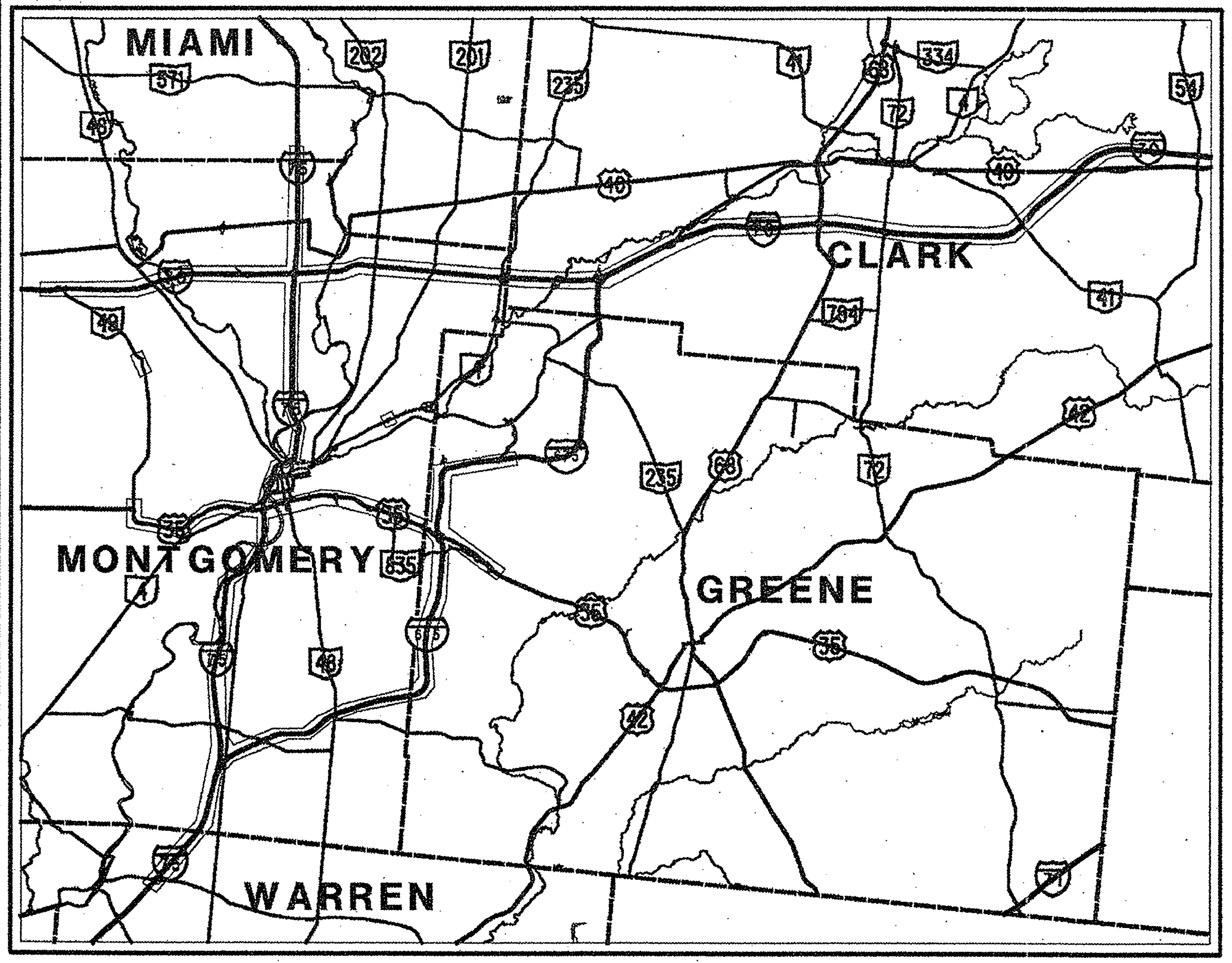

LOCATION MAP

LATITUDE: 39°46'08" N LONGITUDE: 84°11'50" W

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

VAR-DAYTON SPRINGFIELD FREEWAY MANAGEMENT SYSTEM
(Programmed as MOT-ITS SYSTEM)

MONTGOMERY, CLARK, GREENE, MIAMI, AND WARREN COUNTIES

INDEX OF SHEETS:

PROJECT DESCRIPTION

THIS PROJECT INCLUDES THE INSTALLATION OF FREEWAY MANAGEMENT SYSTEM DEVICES THROUGHOUT THE DAYTON/SPRINGFIELD REGION. THIS FMS IS INTENDED TO IMPROVE TRAVELER INFORMATION AND SAFETY IN THE REGION.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA:	N/A
ESTIMATED CONTRACTOR EARTH DISTRUBED AREA:	N/A
NOTICE OF INTENT EARTH DISTURBED AREA:	N/A

LIMITED ACCESS

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE OHIO REVISED CODE.

2010 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

FEDERAL PROJECT NO. E100(368)

PID NO. 77249

CONSTRUCTION PROJECT NO.

RAILROAD INVOLVEMENT NONE

PLAN PREPARED BY:

TEC

TEC Engineering, Inc.
77 W. ELMWOOD DRIVE, SUITE 200
DAYTON, OHIO 45459
(937) 435-8828

DLZ
6121 HUNTLEY ROAD
COLUMBUS, OHIO 43229-1003
(614) 888-0040

UNDERGROUND UTILITIES
CONTACT BOTH SERVICES
CALL TWO WORKING DAYS
BEFORE YOU DIG
CALL
1-800-362-2764
(TOLL FREE)
OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS
MUST BE CALLED DIRECTLY

OIL & GAS PRODUCERS PROTECTIVE SERVICE CALL: 1-800-925-0988

ENGINEERS SEAL: FOR SHEETS 113A-113D

STATE OF OHIO EDGAR W. PHELPS, JR. E-60515 REGISTERED PROFESSIONAL ENGINEER

SIGNED: E. W. Phelps, Jr.
DATE: 02/16/2011

ENGINEERS SEAL: FOR ALL OTHER SHEETS

STATE OF OHIO MICHAEL HAFNER 69762 REGISTERED PROFESSIONAL ENGINEER

SIGNED: Michael Hafner
DATE: 02/16/2011

STANDARD CONSTRUCTION DRAWINGS

GR-1.1	7-16-04	TC-22.10	1-19-01	MT-35.10	4-20-01	HL-20.11	1-19-07
GR-2.1	1-16-04	TC-22.20	1-21-11	MT-95.30	7-17-09	HL-20.21	1-19-07
GR-3.2	10-16-09	TC-51.11	1-21-11	MT-95.31	7-17-09	HL-30.11	10-16-09
GR-4.2	1-19-07	TC-82.10	1-21-11	MT-95.32	7-17-09	HL-30.21	1-19-07
GR-5.1	4-16-10	TC-83.10	1-19-07	MT-98.10	7-17-09	HL-30.22	4-17-09
GR-5.2	4-16-10	TC-83.20	1-21-11	MT-98.11	7-17-09	HL-40.10	1-19-07
GR-5.3	4-16-10	TC-84.20	1-21-11	MT-98.20	7-17-09	HL-40.20	1-19-07
GR-6.1	4-16-10	TC-85.10	10-16-09	MT-98.22	7-17-09	HL-50.11	1-19-07
GR-6.2	4-16-10			MT-98.28	7-17-09	HL-60.12	10-19-07
				MT-98.29	7-17-09		
				MT-105.10	1-16-09		

SUPPLEMENTAL SPECIFICATIONS

SS 800	4-15-11
SS 832	5-5-09
SS 977	4-17-09

SPECIAL PROVISIONS

VAR-DAYTON SPFLD FREEWAY MANAGEMENT SYSTEM 02-16-11

APPROVED Randy Chevalley P.E., P.S. / P.E.W.
DATE 2-17-11 DISTRICT DEPUTY DIRECTOR

APPROVED Jerry Wray Jr.
DATE 3-1-11 DIRECTOR, DEPARTMENT OF TRANSPORTATION

VAR-Dayton Springfield Freeway Management System

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Contract Proposal available @www.contracts.dot.state.oh.us/home

MOT-LR-ITS SYSTEM 110361 PID-77249 Dist 7 6/2/2011

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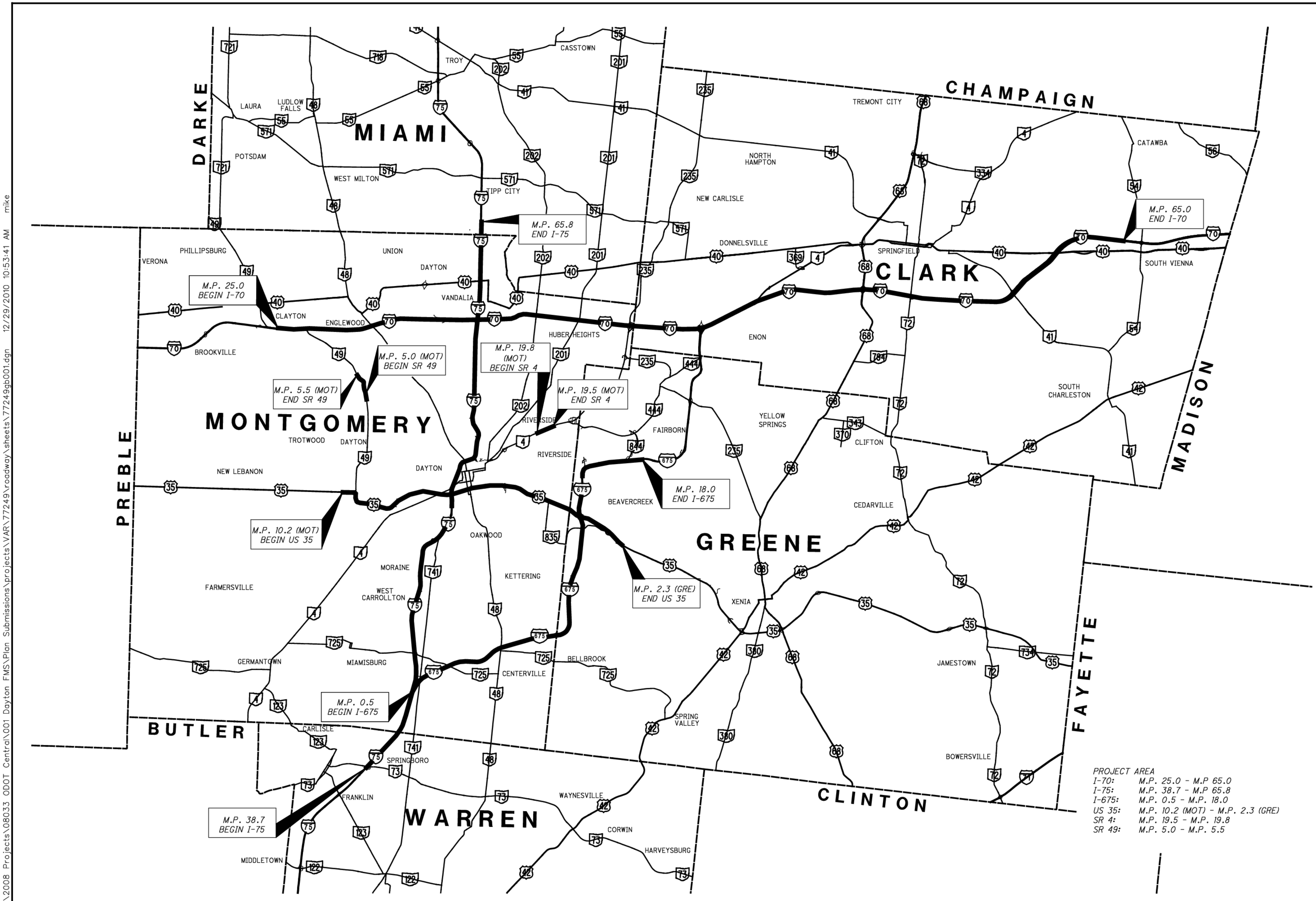


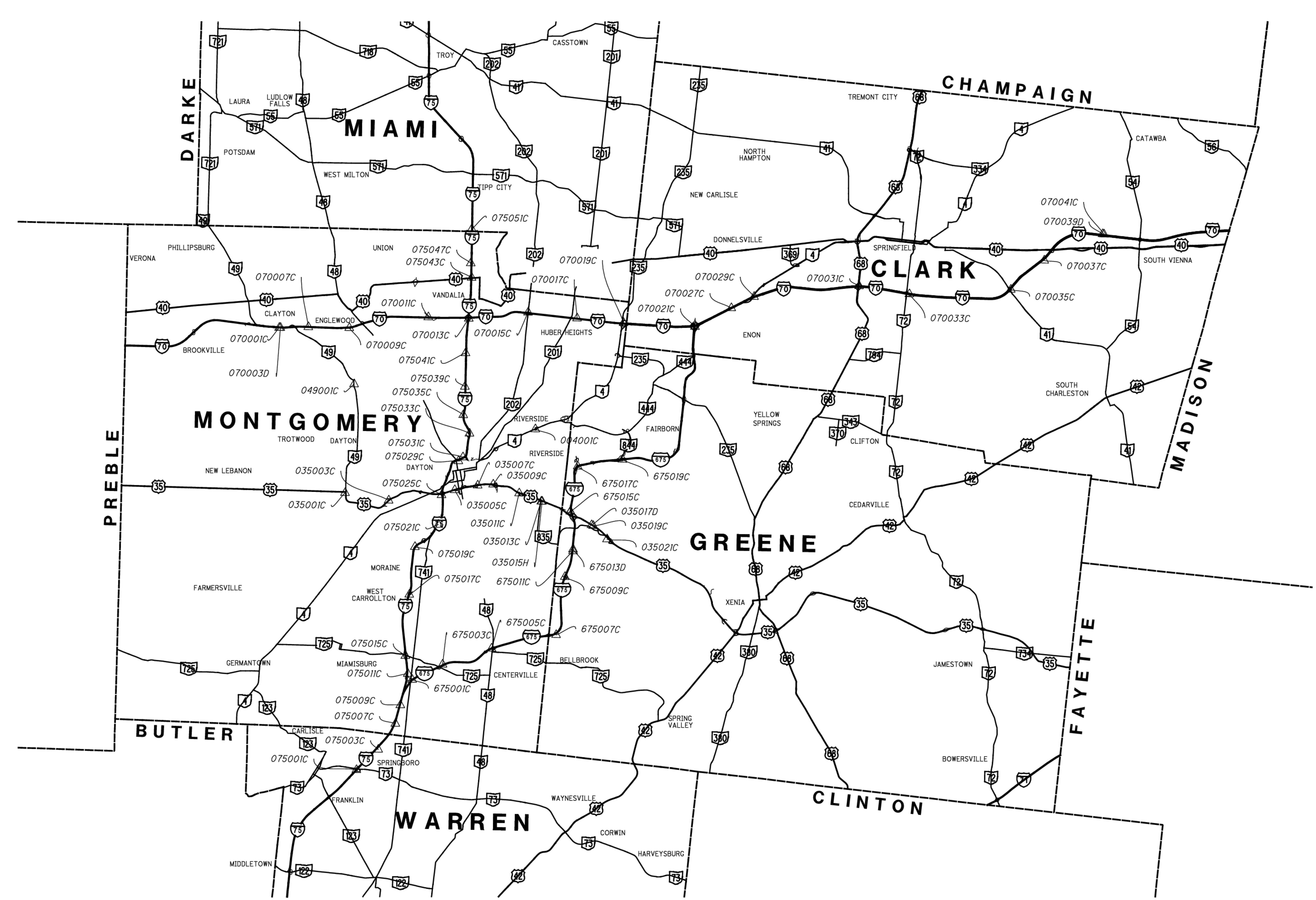
PROJECT AREA

I-70:	M.P. 25.0 - M.P 65.0
I-75:	M.P. 38.7 - M.P 65.8
I-675:	M.P. 0.5 - M.P. 18.0
US 35:	M.P. 10.2 (MOT) - M.P. 2.3 (GRE)
SR 4:	M.P. 19.5 - M.P. 19.8
SR 49:	M.P. 5.0 - M.P. 5.5

CALCULATED KF
CHECKED MJH

SCHEMATIC PLAN

VAR-Dayton Springfield Freeway Management System



CALCULATED JH
CHECKED MJH

FMS DEVICE LOCATIONS

VAR-Dayton Springfield Freeway Management System

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FMS DEVICE LOCATIONS LATITUDE & LONGITUDE

SITE ID	PLAN SHEET	DEVICE ID	DEVICE TYPE	LAT.	LONG.	COMM. SHEET	COMM. TYPE
1	43	070001C	CCTV	39.85386	84.35141	122	LEASED LINE
		070003D	DMS	39.85384	84.34998	122	LEASED LINE
2	45	070005H	HAR	39.85592	84.32693	122	DIRECT ODOT NETWORK
		070007C	CCTV	39.85512	84.32621	122	
3	46	070009C	CCTV	39.85559	84.29086	122	LEASED LINE
4	47	070011C	CCTV	39.86471	84.2233	122	LEASED LINE
5	48	070013C	CCTV	39.86485	84.18841	122	LEASED LINE
6	49	070015C	CCTV	39.8704	84.13773	122	LEASED LINE
7	50	070017C	CCTV	39.86767	84.09548	122	LEASED LINE
8	51	070019C	CCTV	39.86577	84.05541	122	LEASED LINE
9	52	070021C	CCTV	39.86496	83.99372	122	LEASED LINE
10	53	*070023D*	*DMS*	*EXISTING*	*EXISTING*	*122*	*LEASED LINE*
		070025H	HAR	39.87768	83.96437	122	LEASED LINE
		070027C	CCTV	39.87827	83.96292	122	LEASED LINE
11	55	070029C	CCTV	39.88612	83.94398	122	LEASED LINE
12	56	070031C	CCTV	39.89575	83.85398	123	LEASED LINE
13	57	070033C	CCTV	39.8914	83.81057	123	LEASED LINE
14	58	070035C	CCTV	39.89681	83.72349	123	LEASED LINE
15	59	070037C	CCTV	39.91668	83.69553	123	LEASED LINE
16	60	070039D	DMS	39.9353	83.64598	123	LEASED LINE
		070041C	CCTV	39.93528	83.64451	123	LEASED LINE
17	62	075001C	CCTV	39.56303	84.26991	124	LEASED LINE
18	63	075003C	CCTV	39.57725	84.25243	124	LEASED LINE
		075005D	*DMS*	*EXISTING*	*EXISTING*	*124*	*LEASED LINE*
19	65	075007C	CCTV	39.58751	84.24184	124	LEASED LINE
20	66	075009C	CCTV	39.60729	84.23474	124	LEASED LINE
21	67	075011C	CCTV	39.62802	84.22918	124	LEASED LINE
		075013H	HAR	39.62793	84.22915	124	
22	69	075015C	CCTV	39.63982	84.23178	124	LEASED LINE
23	70	075017C	CCTV	39.68059	84.23047	124	LEASED LINE
24	71	075019C	CCTV	39.71224	84.22726	124	LEASED LINE
25	72	075021C	CCTV	39.72752	84.20791	124	LEASED LINE
		075023D	*DMS*	*EXISTING*	*EXISTING*	*124*	*LEASED LINE*
26	74	075025C	CCTV	39.74729	84.20612	124	LEASED LINE
27	75	*075027C*	*CCTV*	*EXISTING*	*EXISTING*	*124*	*LEASED LINE*
28	76	075029C	CCTV	39.7708	84.19465	125	LEASED LINE
29	77	075031C	CCTV	39.772	84.18565	125	LEASED LINE

SITE ID	PLAN SHEET	DEVICE ID	DEVICE TYPE	LAT.	LONG.	COMM. SHEET	COMM. TYPE
30	78	075033C	CCTV	39.78876	84.1841	125	LEASED LINE
31	79	075035C	CCTV	39.80071	84.19013	125	LEASED LINE
32	80	*075037D*	*DMS*	*EXISTING*	*EXISTING*	*125*	*LEASED LINE*
33	82	075039C	CCTV	39.81965	84.18962	125	LEASED LINE
34	83	075041C	CCTV	39.84192	84.1902	125	LEASED LINE
35	84	075043C	CCTV	39.89191	84.18729	125	LEASED LINE
		075045H	HAR	39.89203	84.18692	125	LEASED LINE
36	86	075047C	CCTV	39.90131	84.18842	125	LEASED LINE
37	87	*075049D*	*DMS*	*EXISTING*	*EXISTING*	*125*	*LEASED LINE*
		075051C	CCTV	39.92417	84.18889	125	LEASED LINE
38	89	675001C	CCTV	39.62418	84.22521	126	LEASED LINE
39	90	675003C	CCTV	39.63472	84.19887	126	LEASED LINE
40	91	675005C	CCTV	39.64681	84.15832	126	LEASED LINE
41	92	675007C	CCTV	39.65743	84.10326	126	LEASED LINE
42	93	675009C	CCTV	39.69577	84.09798	126	LEASED LINE
43	94	675011C	CCTV	39.71358	84.09154	126	LEASED LINE
		675013D	DMS	39.71468	84.09149	126	LEASED LINE
44	96	675015C	CCTV	39.73964	84.09506	126	LEASED LINE
45	97	675017C	CCTV	39.7696	84.0902	126	LEASED LINE
46	98	675019C	CCTV	39.77489	84.0525	126	LEASED LINE
47	99	035001C	CCTV	39.74627	84.28895	127	LEASED LINE
48	100	035003C	CCTV	39.74237	84.25126	127	LEASED LINE
49	101	035005C	CCTV	39.75107	84.19492	127	LEASED LINE
50	102	035007C	CCTV	39.75444	84.17548	127	LEASED LINE
51	103	035009C	CCTV	39.75551	84.16217	127	LEASED LINE
52	104	035011C	CCTV	39.75057	84.13972	127	LEASED LINE
53	105	035013C	CCTV	39.74523	84.11982	127	LEASED LINE
		035015H	HAR	39.74503	84.12009	127	LEASED LINE
54	107	035017D	DMS	39.73106	84.07602	127	LEASED LINE
		035019C	CCTV	39.73013	84.07489	127	LEASED LINE
55	109	035021C	CCTV	39.72248	84.06219	127	LEASED LINE
56	110	004001C	CCTV	39.7933	84.12794	127	LEASED LINE
57	111	049001C	CCTV	39.81843	84.28509	127	LEASED LINE

CALCULATED RTM
CHECKED MJH

VAR-Dayton Springfield Freeway Management System

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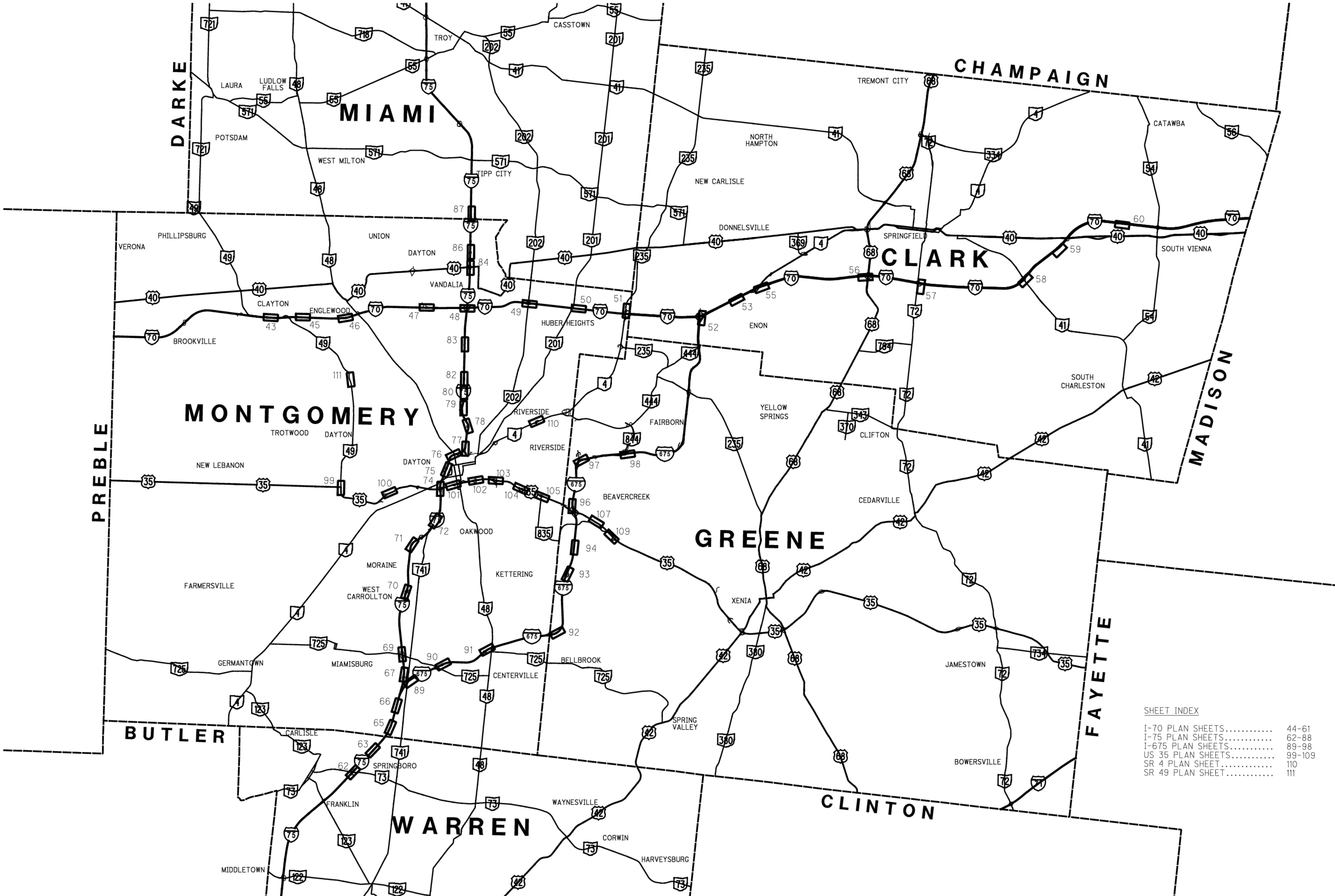
SITE ID	PLAN SHEET	DEVICE ID	DEVICE TYPE	STATION	OFFSET	COMM. SHEET	COMM. TYPE
1	43	070001C	CCTV	393+15.5	76.0' RT	122	LEASED LINE
		070003D	DMS	397+21.0	74.0' RT	122	LEASED LINE
2	45	070005H	HAR	*EXISTING*	*EXISTING*	122	DIRECT ODOT NETWORK
		070007C	CCTV	464+8.5	13.0' LT	122	
3	46	070009C	CCTV	563+34.5	73.0' RT	122	LEASED LINE
4	47	070011C	CCTV	756+48.5	96.0' LT	122	LEASED LINE
5	48	070013C	CCTV	854+34.5	211.5' RT	122	LEASED LINE
6	49	070015C	CCTV	999+48.0	190.0' LT	122	LEASED LINE
7	50	070017C	CCTV	1118+44.5	87.0' LT	122	LEASED LINE
8	51	070019C	CCTV	1231+18.0	163.0' LT	122	LEASED LINE
9	52	070021C	CCTV	66+14.0	19.5' RT	122	LEASED LINE
10	53	*070023D*	*DMS*	*EXISTING*	*EXISTING*	*122*	*LEASED LINE*
		070025H	HAR	*EXISTING*	*EXISTING*	122	LEASED LINE
		070027C	CCTV	267+69.0	76.0' LT	122	LEASED LINE
11	55	070029C	CCTV	328+00.0	79.0' LT	122	LEASED LINE
12	56	070031C	CCTV	585+98.5	144.5' LT	123	LEASED LINE
13	57	070033C	CCTV	708+82.0	129.0' RT	123	LEASED LINE
14	58	070035C	CCTV	961+50.5	107.0' LT	123	LEASED LINE
15	59	070037C	CCTV	1068+64.5	119.5' RT	123	LEASED LINE
16	60	070039D	DMS	1234+70.0	102.0' LT	123	LEASED LINE
		070041C	CCTV	1238+86.5	129.0' LT	123	LEASED LINE
17	62	075001C	CCTV	93+90.5	149.0' LT	124	LEASED LINE
18	63	075003C	CCTV	165+35.5	152.0' RT	124	LEASED LINE
		075005D	*DMS*	*EXISTING*	*EXISTING*	*124*	*LEASED LINE*
19	65	075007C	CCTV	4+59.0	202.5' RT	124	LEASED LINE
20	66	075009C	CCTV	79+19.5	0.5' RT	124	LEASED LINE
21	67	075011C	CCTV	156+11.5	209.0' RT	124	LEASED LINE
		075013H	HAR	*EXISTING*	*EXISTING*	124	
22	69	075015C	CCTV	199+48.0	8.0' RT	124	LEASED LINE
23	70	075017C	CCTV	350+09.0	11.5' RT	124	LEASED LINE
24	71	075019C	CCTV	466+16.0	129.5' LT	124	LEASED LINE
25	72	075021C	CCTV	545+85.0	64.0' RT	124	LEASED LINE
		075023D	*DMS*	*EXISTING*	*EXISTING*	*124*	*LEASED LINE*
26	74	075025C	CCTV	11+43.0	32.0' RT	124	LEASED LINE
27	75	*075027C*	*CCTV*	*EXISTING*	*EXISTING*	*124*	*LEASED LINE*
28	76	075029C	CCTV	366+61.5	101.5' LT	125	LEASED LINE
29	77	075031C	CCTV	595+89.5	46.5' RT	125	LEASED LINE

SITE ID	PLAN SHEET	DEVICE ID	DEVICE TYPE	STATION	OFFSET	COMM. SHEET	COMM. TYPE
30	78	075033C	CCTV	447+46.5	78.0' LT	125	LEASED LINE
31	79	075035C	CCTV	495+01.5	81.0' LT	125	LEASED LINE
32	80	*075037D*	*DMS*	*EXISTING*	*EXISTING*	*125*	*LEASED LINE*
33	82	075039C	CCTV	131+44.0	123.5' LT	125	LEASED LINE
34	83	075041C	CCTV	212+71.0	141.0' LT	125	LEASED LINE
35	84	075043C	CCTV	395+03.0	130.5' RT	125	LEASED LINE
		075045H	HAR	395+45.0	234.0' RT	125	LEASED LINE
36	86	075047C	CCTV	429+34.0	120.0' LT	125	LEASED LINE
37	87	*075049D*	*DMS*	*EXISTING*	*EXISTING*	*125*	*LEASED LINE*
		075051C	CCTV	4+59.0	89.5' LT	125	LEASED LINE
38	89	675001C	CCTV	58+02.0	78.0' RT	126	LEASED LINE
39	90	675003C	CCTV	141+47.5	206.0' LT	126	LEASED LINE
40	91	675005C	CCTV	268+89.0	238.0' LT	126	LEASED LINE
41	92	675007C	CCTV	119+32.0	131.0' RT	126	LEASED LINE
42	93	675009C	CCTV	262+81.5	200.5' LT	126	LEASED LINE
43	94	675011C	CCTV	330+67.5	110.5' RT	126	LEASED LINE
		675013D	DMS	334+70.5	95.0' RT	126	LEASED LINE
44	96	675015C	CCTV	351+44.0	233.0' LT	126	LEASED LINE
45	97	675017C	CCTV	461+73.5	192.0' LT	126	LEASED LINE
46	98	675019C	CCTV	569+22.0	83.0' RT	126	LEASED LINE
47	99	035001C	CCTV	515+72.0	87.0' RT	127	LEASED LINE
48	100	035003C	CCTV	654+11.0	101.5' LT	127	LEASED LINE
49	101	035005C	CCTV	416+57.0	86.0' LT	127	LEASED LINE
50	102	035007C	CCTV	472+32.0	75.5' LT	127	LEASED LINE
51	103	035009C	CCTV	509+66.0	216.5' LT	127	LEASED LINE
52	104	035011C	CCTV	468+35.5	154.5' RT	127	LEASED LINE
53	105	035013C	CCTV	1053+91.5	129.0' RT	127	LEASED LINE
		035015H	HAR	1053+43.0	223.0' RT	127	LEASED LINE
54	107	035017D	DMS	81+64.5	66.5' LT	127	LEASED LINE
		035019C	CCTV	86+14.5	72.0' RT	127	LEASED LINE
55	109	035021C	CCTV	131+80.5	58.0' RT	127	LEASED LINE
56	110	004001C	CCTV	191+91.0	108.5' LT	127	LEASED LINE
57	111	049001C	CCTV	270+61.0	101.0' RT	127	LEASED LINE

CALCULATED RTM
CHECKED MJH

FMS DEVICE LOCATIONS
STATION & OFFSET

VAR-Dayton Springfield Freeway Management System



SHEET INDEX

I-70 PLAN SHEETS............	44-61
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SR 4 PLAN SHEET............	110
SR 49 PLAN SHEET............	111

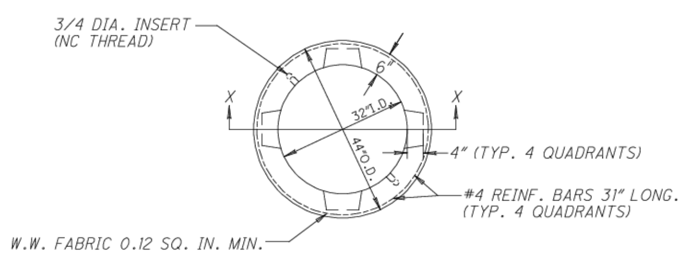
CALCULATED RTM
CHECKED MJH

SHEET LAYOUT

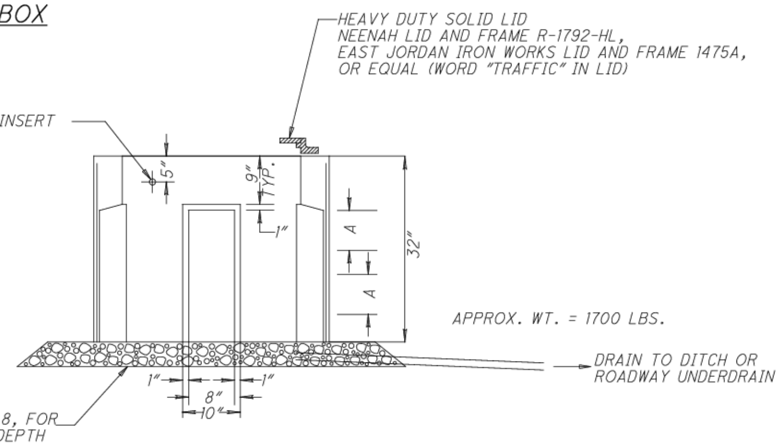
VAR-Dayton Springfield Freeway Management System

PULL BOX AND CONDUIT DETAILS

32" ROUND PULL BOX DETAIL



PLAN VIEW



SECTION X-X

32" ROUND PULL BOX NOTES:

1. "A" CUT OUT 4 WIRES IN THE AREA OF THE REDUCED WALL SECTION. ALSO INCLUDE THE VERTICAL WIRE FOR REMOVAL.

2. CONCRETE COMP. STRENGTH 4000 PSI MIN. DESIGN

3. CONCRETE AIR ENTRAINMENT TO BE 6% + 1 1/2%

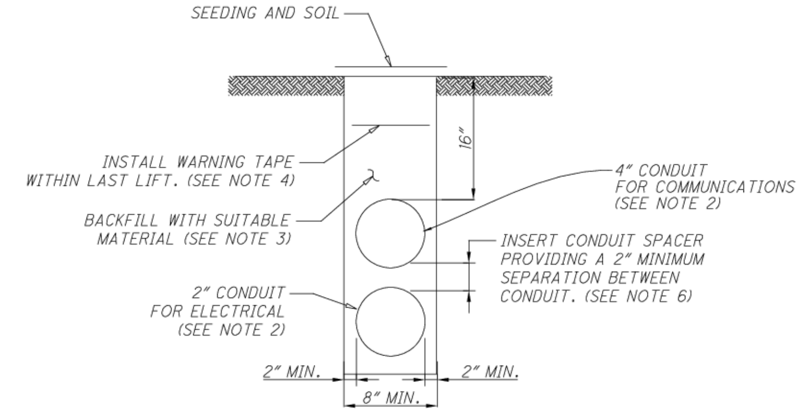
4. COATING OF PROTECTIVE ACRYLIC IS TO BE APPLIED TO THE TOP OF 12" OF THE OUTSIDE FACE AND TOTAL INSIDE FACE.

5. LID RING LOAD TRANSFER IS TO BE DISTRIBUTED BY THE USE OF A PREFORMED MOSTIC JOIN MATERIAL.

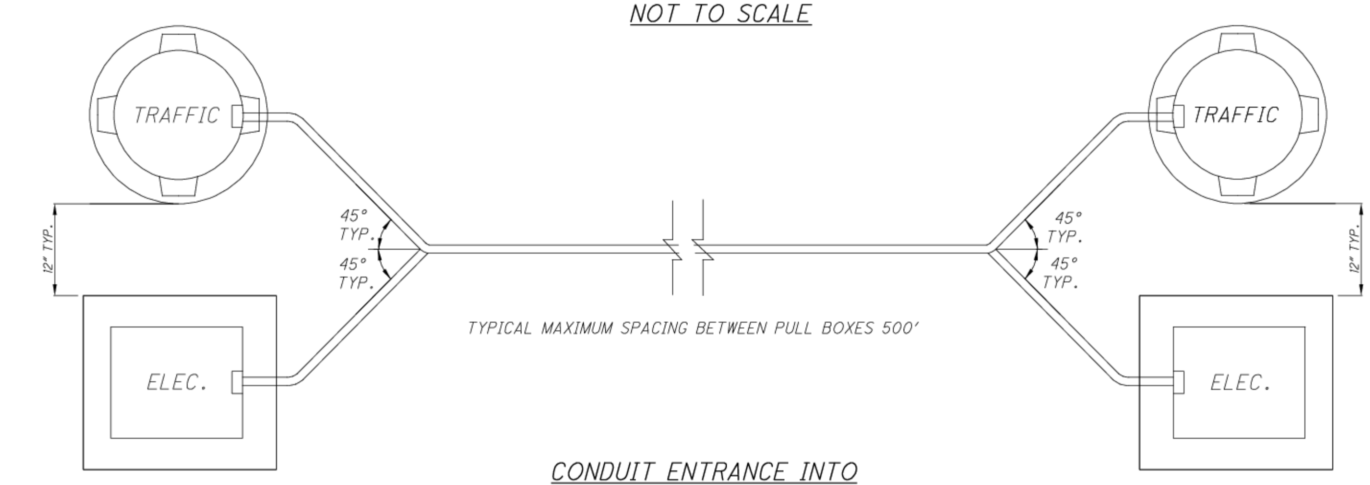
6. EACH PULL BOX SHALL HAVE A DRAIN, INDEPENDENTLY DRAINING TO A DITCH OR TO A ROADWAY UNDERDRAIN (SHOWN IN STANDARD CONSTRUCTION DRAWING HL-30.11).

7. SLOPE THE PROPOSED 4" RACEWAY (PVC CONDUIT) TO DRAIN INTO 32" PULL BOX ON EITHER SIDE OF THE FREEWAY SHOULDER, WHERE APPLICABLE. THE 4" CONDUIT SHALL REMAIN ABOVE THE UNDERDRAIN.

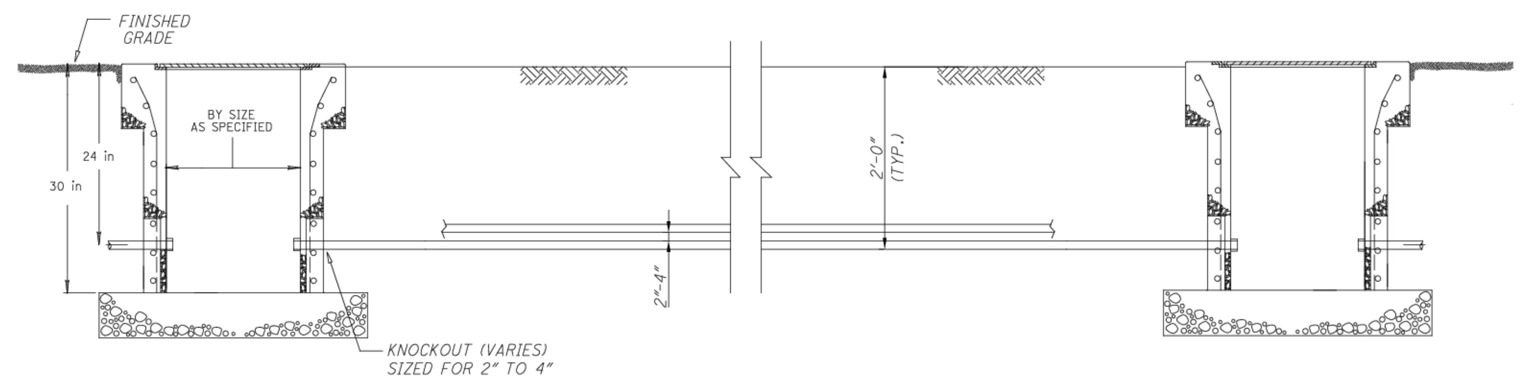
8. MINIMUM BEND RADIUS OF 4-INCH PVC IS 24 INCHES.



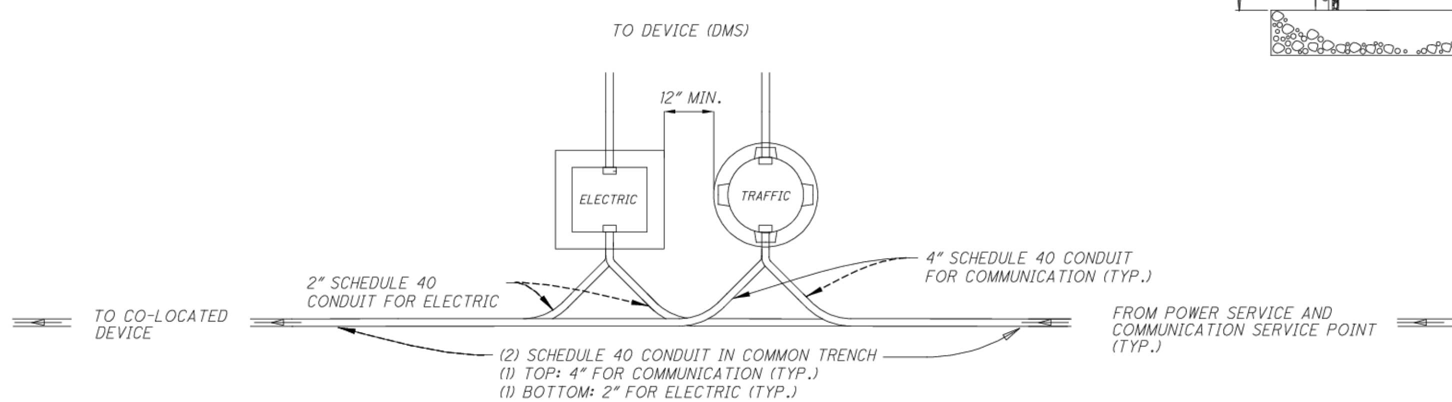
TRENCH WITH TWO OR MORE CONDUITS
NOT TO SCALE



CONDUIT ENTRANCE INTO
PULL BOX - PLAN VIEW
NOT TO SCALE



CONDUIT ENTRANCE INTO
PULL BOX - ELEVATION VIEW
NOT TO SCALE



CONDUIT CONTINUATION LAYOUT (TYP.)
PLAN VIEW
NOT TO SCALE

NOTES:

1. REMOVE AND STORE TOPSOIL FROM THE EXCAVATION. DISPOSE OF ALL UNSUITABLE MATERIAL BEFORE BACKFILLING.

2. CENTER THE CONDUIT IN THE TRENCH AND HOLD FIRMLY IN PLACE WHILE THE TRENCH IS BACKFILLED.

3. THE BACKFILL MATERIAL SHALL CONFORM TO ODOT ITEM 625 - TRENCHING (INCIDENTAL).

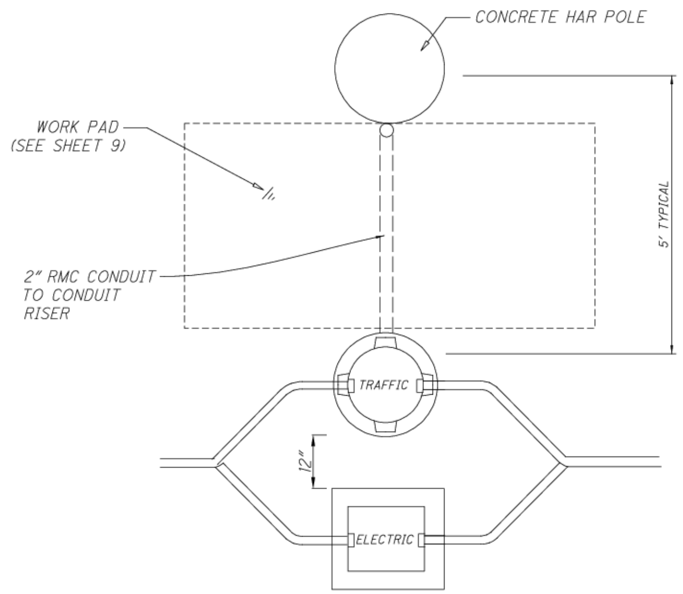
4. INSTALL A 4 MIL PLASTIC ORANGE WARNING TAPE 6" TO 8" BELOW SURFACE, (INCIDENTAL) FOR THE ENTIRE LENGTH OF THE TRENCH.

5. AFTER BACKFILL MATERIAL IS PLACED IN UNPAVED AREAS, SEED AND MULCH OVER TRENCHED AREA.

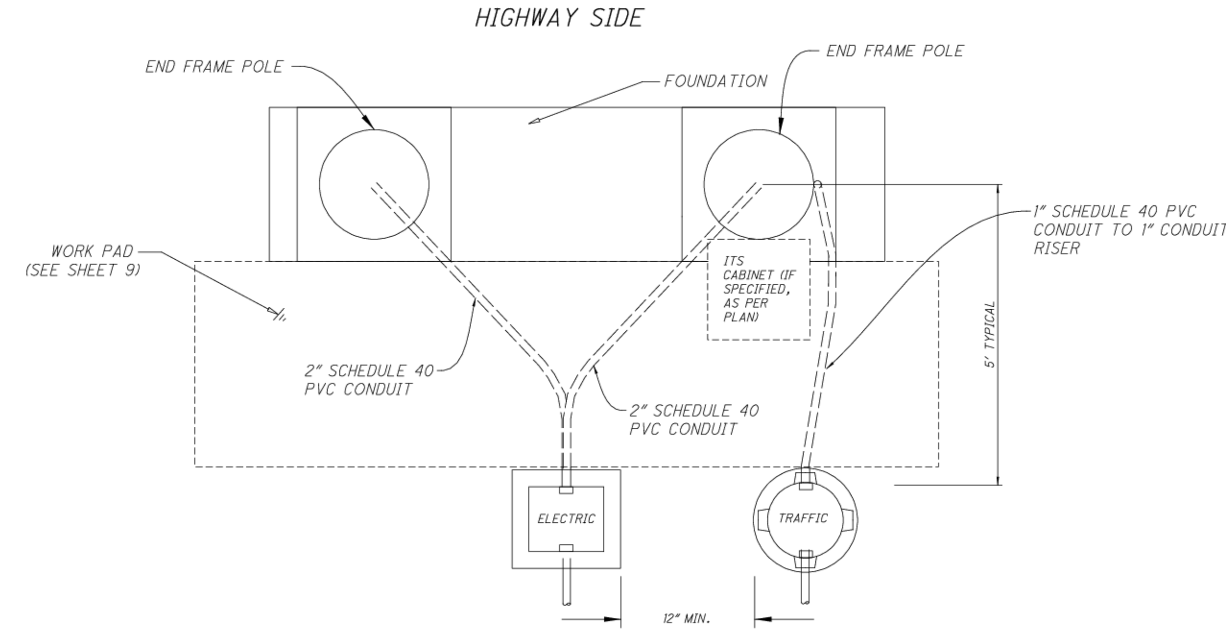
6. PROVIDE HIGH IMPACT CONDUIT SPACERS AT INTERVALS NOT GREATER THAN 10'. SPACERS ARE CONSIDERED INCIDENTAL TO THE CONDUIT ITEM AND WILL NOT BE PAID FOR SEPARATELY.

CALCULATED -
CHECKED MJH

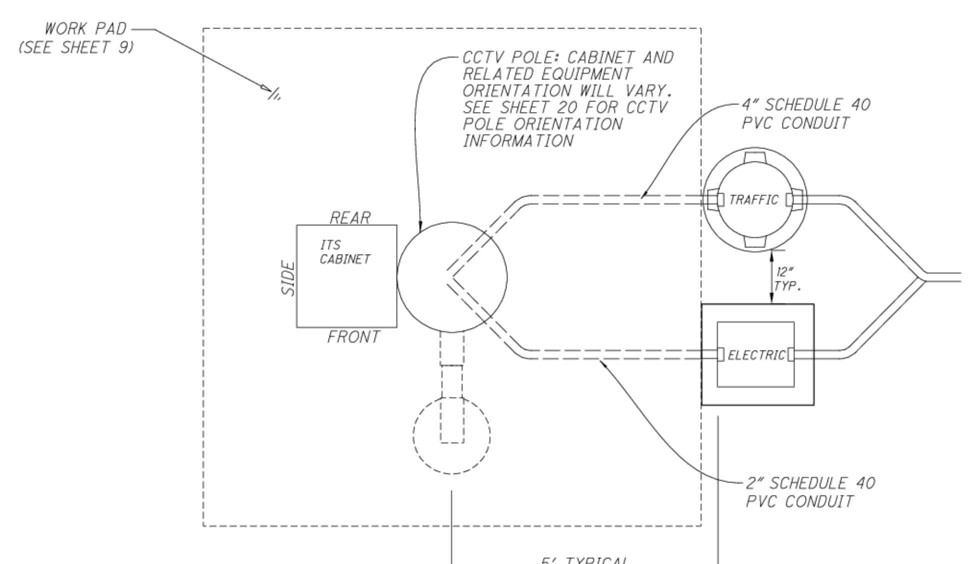
VAR-Dayton Springfield Freeway Management System



TYPICAL HAR LOCATION
PULL BOX LAYOUT
PLAN VIEW
NOT TO SCALE



TYPICAL DMS TRUSS LOCATION
PULL BOX LAYOUT
PLAN VIEW
NOT TO SCALE



TYPICAL CCTV CAMERA POLE LOCATION
PULL BOX LAYOUT
PLAN VIEW
NOT TO SCALE

CALCULATED RTM
CHECKED MJH

PULL BOX AND CONDUIT DETAILS

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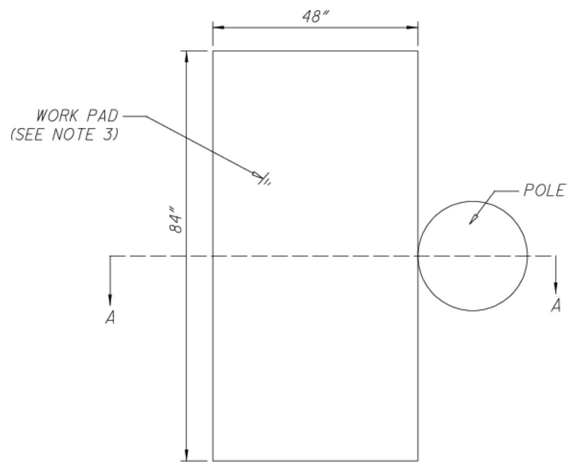
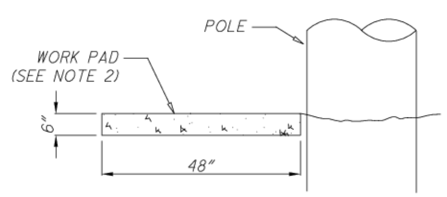
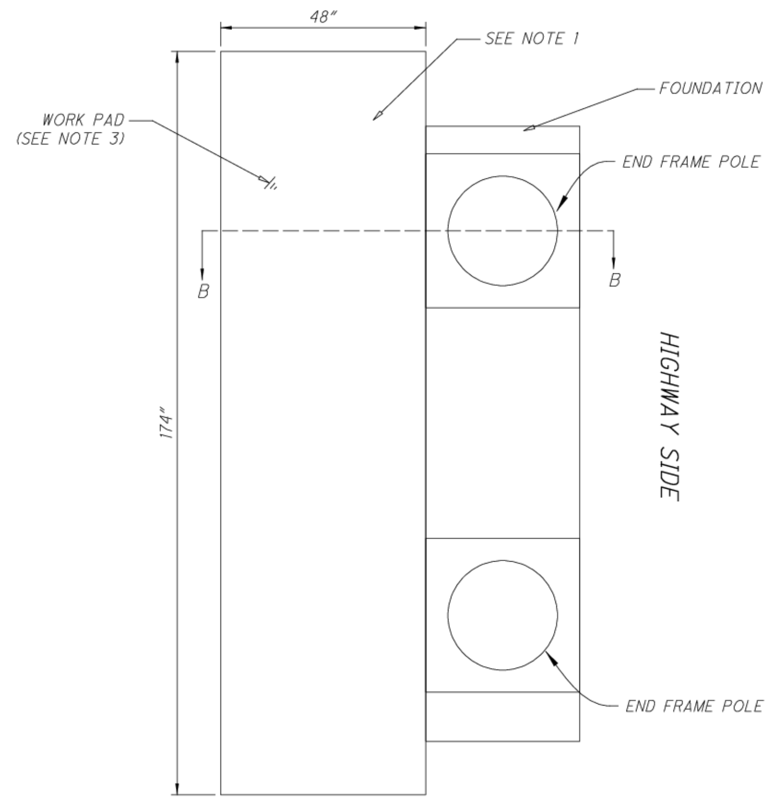


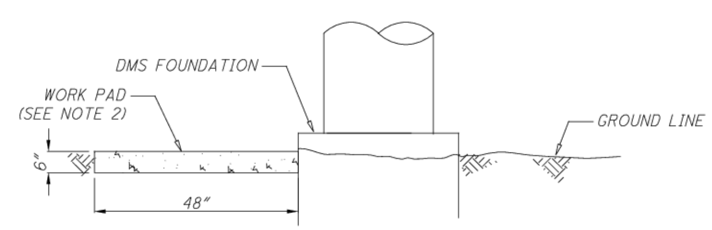
DETAIL A
DEVICE WORK PAD, TYPE A
(84"x48"x6")
PLAN VIEW
(HAR DEVICE TYP.)



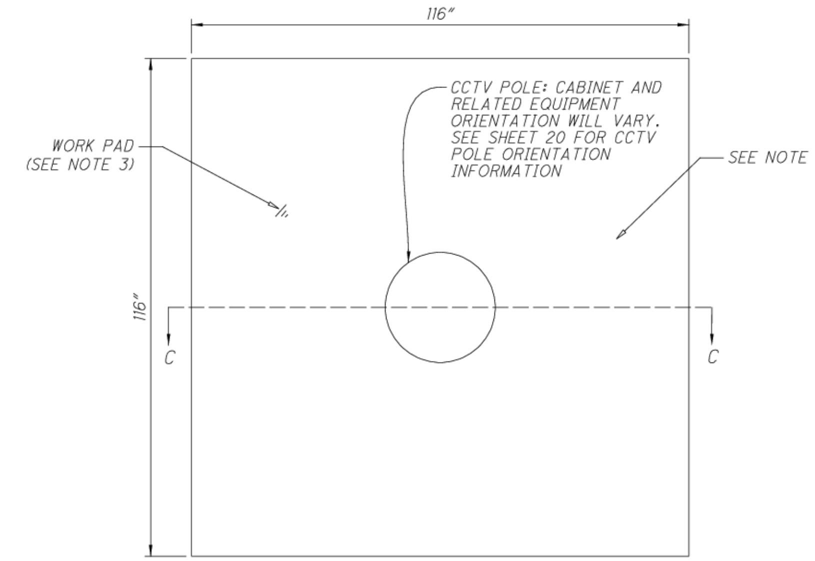
CROSS-SECTION A-A
DEVICE WORK PAD, TYPE A
(84"x48"x6")
ELEVATION VIEW



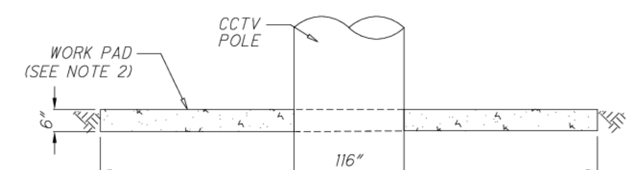
DETAIL B
DEVICE WORK PAD, TYPE B
(174"x48"x6")
PLAN VIEW
(DMS DEVICE TYP.)



CROSS-SECTION B-B
DEVICE WORK PAD, TYPE B
(174"x48"x6")
ELEVATION VIEW



DETAIL C
DEVICE WORK PAD, TYPE C
(116"x116"x6")
PLAN VIEW
(CCTV DEVICE TYP.)



CROSS-SECTION C-C
DEVICE WORK PAD, TYPE C
(116"x116"x6")
ELEVATION VIEW

NOTES:

1. ½" PREFORMED JOINT FILLER AS PER 705.03 SHALL BE USED BETWEEN CONCRETE POLE AND ADJACENT PAVED AREAS.

2. A MINIMUM OF ONE DEVICE WORK PAD SHALL BE LOCATED AT GROUND LEVEL BELOW EACH POLE MOUNTED CABINET UNLESS LOCATED IN AN OTHERWISE PAVED AREA OR AS INDICATED ON THE SITE PLAN. IN SOME LOCATIONS IT MAY NOT BE POSSIBLE FOR THE CONTRACTOR TO PLACE THE FULL SIZE WORK PAD(S) AS DETAILED ON THIS SHEET. AT THESE LOCATIONS THE CONTRACTOR SHALL NOTIFY THE DISTRICT CONSTRUCTION ENGINEER AND THE SIZE OF THE WORK PAD(S) SHALL BE DETERMINED BASED ON FIELD CONDITIONS WITH THE APPROVAL OF THE DISTRICT CONSTRUCTION ENGINEER. DEVICE WORK PADS SHALL BE PAID FOR SEPARATELY AS SPECIFIED IN THE SPECIAL PROVISIONS SECTION 3.30 THROUGH 3.33.

3. A 6" THICK WORK PAD WITH DIMENSIONS SHOWN ON DETAILS SHALL BE PROVIDED UNLESS IN AN OTHERWISE PAVED AREA. IN LEVEL AREAS, THE TOP OF THE PAD SHALL BE 1" ABOVE THE GROUND LINE. IN STEEPLY SLOPED AREAS, THE PAD'S DESIGN SHALL BE ADJUSTED TO PROVIDE ACCESS, DRAINAGE, AND SAFETY. SEE SHEET 10 FOR SLOPED AREA DEVICE WORK PAD DESIGN DETAILS.

CALCULATED RTM
CHECKED MJH

DEVICE WORK PAD DETAILS

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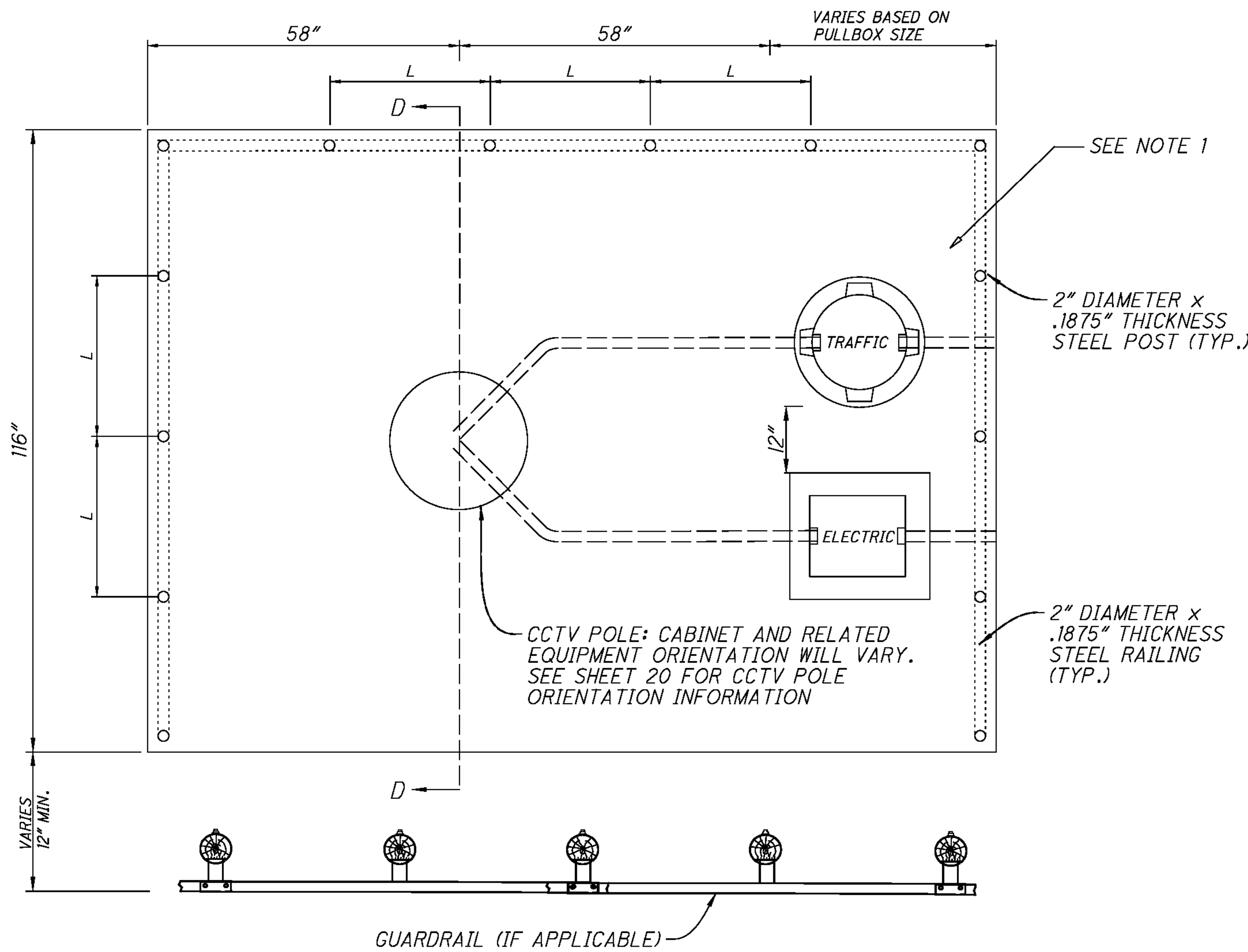
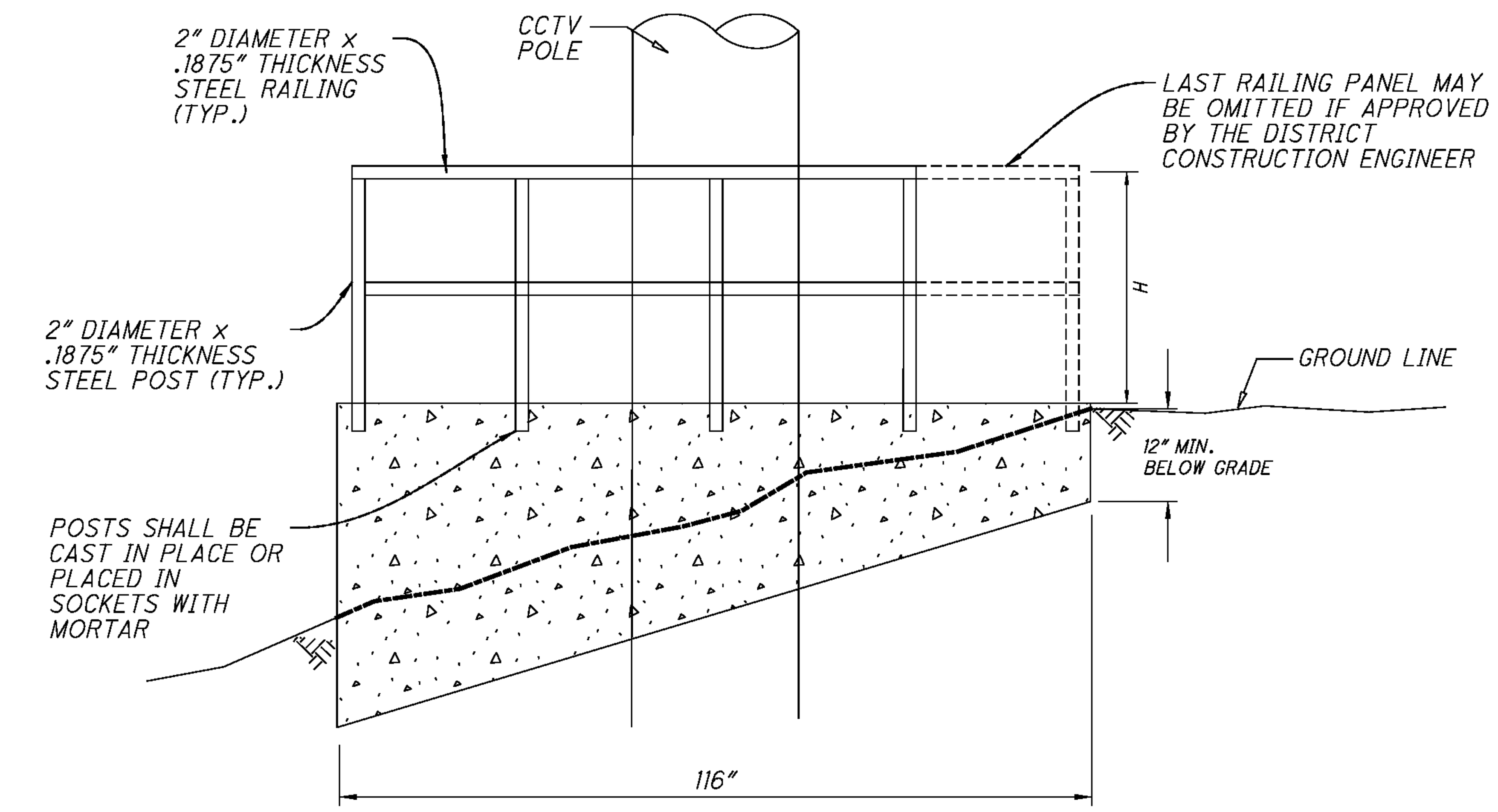


DETAIL D
DEVICE WORK PAD, TYPE D (SLOPED AREA DESIGN)
PLAN VIEW

L = EQUAL INTERIOR PANEL LENGTHS. PANEL LENGTHS ARE NOT TO EXCEED 36".



CROSS-SECTION D-D
DEVICE WORK PAD, TYPE D (SLOPED AREA DESIGN)
ELEVATION VIEW

H = 34" MIN., 38" MAX.

NOTES:

1. ½" PREFORMED JOINT FILLER AS PER 705.03 SHALL BE USED BETWEEN CONCRETE POLE AND ADJACENT PAVED AREAS.

2. THE FOLLOWING SITE LOCATIONS AND ASSOCIATED DEVICES REQUIRE THE USE OF THE DEVICE WORK PAD, SLOPED AREA DESIGN:
- -SITE #3, MOT-70-28.37 (070009C)
- -SITE #7, MOT-70-38.89 (070017C)
- -SITE #8, MOT-70-41.05 (070019C)
- -SITE #10, CLA-70-46.03 (070027C)
- -SITE #26, MOT-75-52.69 (075025C)
- -SITE #33, MOT-75-58.20 (075039C)
- -SITE #45, GRE-675-15.70 (675017C)
- -SITE #49, MOT-35-15.94 (035005C)

3. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO UTILIZE THE STANDARD WORK PAD TYPES (A, B, OR C) PRIOR TO THE USE OF THE DEVICE WORK PAD, SLOPED AREA DESIGN. ALL EXCESS EXCAVATED MATERIAL FROM CONSTRUCTION PROCEDURES SHALL BE UTILIZED TO PROVIDE A SLOPE SURROUNDING EACH DEVICE SUITABLE FOR PLACEMENT OF A STANDARD WORK PAD.

4. THE DISTRICT CONSTRUCTION ENGINEER SHALL DETERMINE THE SUITABILITY OF A SITE FOR USE OF A STANDARD WORK PAD.

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DEVICE WORK PAD DETAILS

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LEGEND (FOR SHEETS 11-14)

WORK BY UTILITY:

1. AERIAL SERVICE ENTRANCE CABLE FURNISHED AND INSTALLED BY UTILITY.
2. SPLICING OF UTILITY'S SERVICE ENTRANCE CABLE ONTO CONTRACTOR'S SERVICE ENTRANCE CABLE BY ELECTRIC UTILITY.
3. TERMINATION OF CONTRACTOR SUPPLIED SERVICE ENTRANCE CABLE ONTO CONTRACTOR INSTALLED WOOD POLE/ H-FRAME.
4. EXISTING/PROPOSED ELECTRIC UTILITY POLE INSTALLED BY ELECTRIC UTILITY. (NO WORK)
5. EXISTING/PROPOSED GROUND MOUNTED TRANSFORMER BASE INSTALLED BY ELECTRIC UTILITY (NO WORK)
6. ELECTRIC UTILITY SHALL COMPLETE ALL WORK TO BRING SERVICE FROM THE IDENTIFIED SERVICE POINT INTO THE RIGHT-OF-WAY AT THE LOCATIONS INDICATED ON THE PLAN SHEETS.
7. COMMUNICATIONS CABLE FURNISHED AND INSTALLED BY COMMUNICATION PROVIDER. SEE COMMUNICATION SERVICE DETAILS, SHEET 16.

WORK BY CONTRACTOR:

(1) INSTALL 90° - 24" RADIUS PVC BEND, SCHEDULE 80.

(2) WARNING RIBBON 12" ABOVE SERVICE LATERAL.

(3) CONTRACTOR FURNISHED AND INSTALLED CLASS IV WOOD POLE (MINIMUM 25' LONG). SEE TABLE ON THIS SHEET FOR SETTING DEPTHS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FURNISH AND INSTALL A WOOD POLE THAT IS SUFFICIENT IN LENGTH TO MEET MIN. ROADWAY CLEARANCE OF 20FT.

(4) CONTRACTOR INSTALLED EQUIPMENT STAND PER HL-40.20.

(5) UTILITY METER. CONTRACTOR TO SUPPLY MANUAL BYPASS TYPE SOCKET.

(6) FUSIBLE SERVICE DISCONNECT SWITCH. FUSE SIZES & SERVICE RATING SHOWN ON PLAN SHEETS.

(7) CONCRETE PULL BOX, 18" WILL BE INSTALLED WITHIN 5 FT OF EVERY ELECTRICAL SERVICE. NO ELECTRICAL SPLICES PERMITTED.

(8) 1" X 10' COPPER CLAD STEEL GROUNDING ROD ELECTRODE, APP. TOP OF GROUND ROD INSTALLED 30" BELOW GRADE AND AT LEAST 1' OFF EDGE OF POLE OR EQUIPMENT FOUNDATION. SEE DETAIL 'SITE GROUNDING.'

(9) 2" WEATHERHEAD AND STRAIN RELIEF HARDWARE FURNISHED & INSTALLED BY CONTRACTOR.

(10) 2" CONDUIT RISER. SEE DETAIL 5 - CONDUIT MOUNTING BRACKET (SHEET 13) FOR MOUNTING DETAILS.

(11) SERVICE ENTRANCE CABLE IN CONDUIT BY CONTRACTOR. ALL SERVICE ENTRANCE CABLE SHALL BE #4-USE-5KV FOR 100A SERVICES AND #1/0 FOR 200A SERVICE OR AS REQUIRED BY UTILITY.

(12) THREADED HUB TYPE CONDUIT COUPLING BETWEEN ENCLOSURES SIZED TO ACCOMMODATE CONDUCTORS. SEE PLAN FOR WIRE REQUIREMENTS.

(13) 1" SCHEDULE 80 PVC CONDUIT FOR GROUND.

(14) 1-1/C #4 XHHW-2 GROUNDING ELECTRODE CONDUCTOR IN CONDUIT TO DISCONNECT SWITCH NEUTRAL BUS

(15) GROUNDING ELECTRODE CONDUCTOR ATTACHED TO GROUNDING ELECTRODE AT LEAST 30" BELOW GRADE BY USE OF AN EXOTHERMIC WELD. FROM THE DISCONNECT SWITCH NEUTRAL BUS, THE GROUNDING ELECTRODE CONDUCTOR MUST ALWAYS BE DIRECTED DOWNWARD OR HORIZONTAL.

(16) SCHEDULE 40 PVC CONDUIT IN TRENCH. CONDUIT SHALL BE 2" MINIMUM. TERMINATE THIS CONDUIT IN PULL BOX. CONDUIT INSTALLED A MINIMUM OF 18" BELOW GRADE.

(17) CONDUIT AND CABLE PER PLAN BY CONTRACTOR. NO SPLICES PERMITTED IN PULL BOX. STRIP CASING BACK FROM UNIT DUCT CABLE AND PULL CABLE THROUGH TO DISCONNECT.

(18) 2" 725.04 CONDUIT INSTALLED A MINIMUM OF 18" BELOW GRADE. CONDUIT RUN IS CONTINUOUS BETWEEN EQUIPMENT STAND AND UTILITY POLE/TRANSFORMER OR AS INDICATED ON PLAN SHEETS.

(19) CONTRACTOR SHALL INSTALL CONDUIT NO CLOSER THAN 2' FROM EDGE OF UTILITY TRANSFORMER PAD OR EXISTING LIMITED ACCESS RIGHT-OF-WAY LIMIT. APPROACH TO TRANSFORMER MUST BE COORDINATED WITH UTILITY.

(20) NON-FUSIBLE SERVICE DISCONNECT SWITCH. SERVICE RATING SHOWN ON PLAN SHEETS.

NOTES:

1. CONTRACTOR MUST COORDINATE WITH UTILITIES' FIELD ENGINEER. CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING AND COORDINATING OF ALL UTILITIES, RELATED WORK, AND INSPECTIONS AS NECESSITATED BY THE PROJECT.

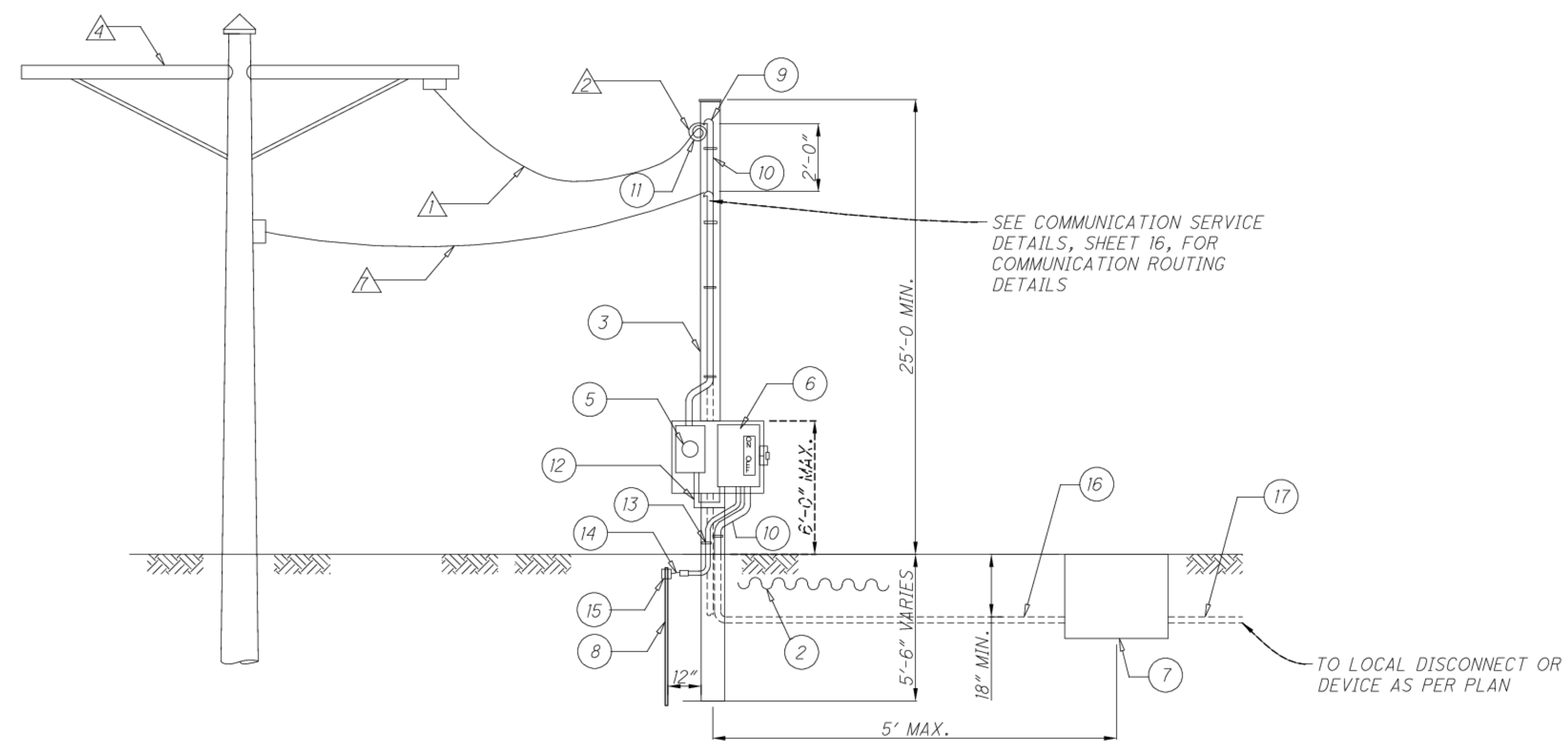
2. ALL WORK AND MATERIALS SHOWN ON ELECTRICAL SERVICE DETAILS FROM THE ELECTRIC UTILITY POLE/ELECTRIC SERVICE PEDESTAL TO THE DISCONNECT (INCLUDING LOCAL DISCONNECT) IS INCIDENTAL TO POWER SERVICE PAY ITEMS.

DAYTON POWER AND LIGHT, OHIO EDISON, AND DUKE ENERGY CONDUIT SYSTEMS SHALL BE INSTALLED PER NEC AND LOCAL REQUIREMENTS.

3. DO NOT EXTEND CONDUIT ABOVE THE SECONDARY OR NEUTRAL POSITION AT ANY TIME.

4. CONDUIT SHALL MAINTAIN A MINIMUM CLEARANCE OF 6" BELOW THE SECONDARY OR NEUTRAL.

5. ALL PROPOSED SERVICE TYPES AND LOCATIONS ARE SUBJECT TO APPROVAL FROM UTILITY. CONTRACTOR IS RESPONSIBLE FOR FURNISHING AND INSTALLING ALL EQUIPMENT ACCORDING TO ENGINEER'S APPROVAL.



WOOD POLE SETTING DEPTH CHART:

LENGTH	WOOD POLE SETTING DEPTH
30	5' - 6"
35	6' - 0"
40	6' - 0"
45	6' - 6"
50	7' - 0"
55	7' - 6"
60	8' - 0"
65	8' - 6"

DETAIL 1
POWER SERVICE, AS PER PLAN A

POWER SERVICE, 120/240V 3 WIRE, 1 PHASE
*SEE STANDARD CONSTRUCTION DRAWING HL-40.10 FOR MORE DETAILS.
*SEE TYPICAL ONE-LINE DIAGRAMS DETAILS 1-3 SHEET 14 FOR MORE DETAILS.

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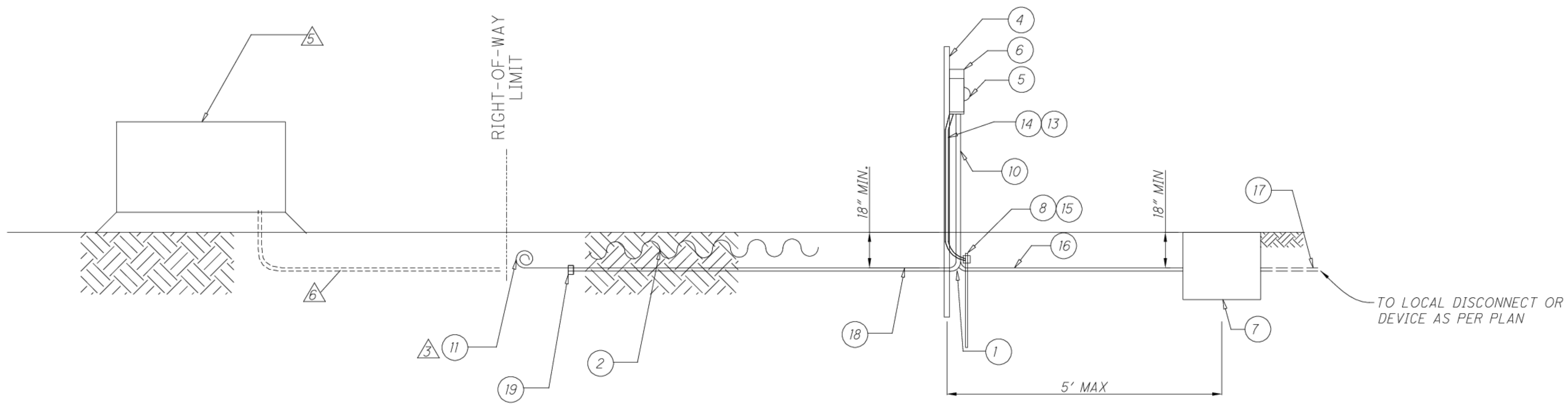
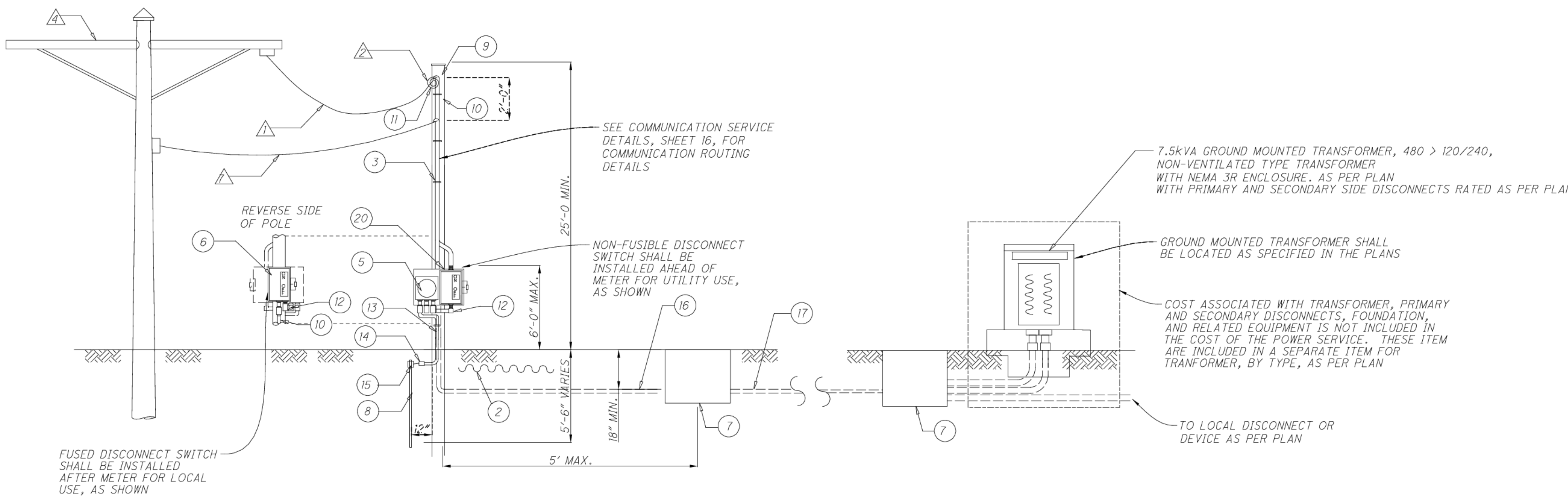
ELECTRICAL DETAILS
TYPICAL ELECTRICAL SERVICE

VAR-Dayton Springfield Freeway Management System



DETAIL 2
POWER SERVICE, AS PER PLAN B

POWER SERVICE, 120/240V, 3 WIRE, 1 PHASE
*SEE STANDARD CONSTRUCTION DRAWING HL-40.20 FOR MORE DETAILS
*SEE TYPICAL ONE-LINE DIAGRAMS DETAILS 1,2 (SHEET 14) FOR MORE DETAILS.



DETAIL 3
POWER SERVICE, AS PER PLAN C

POWER SERVICE, 480V, 3 WIRE, 1 PHASE
*SEE STANDARD CONSTRUCTION DRAWING HL-40.10 FOR MORE DETAILS.
*SEE TYPICAL ONE-LINE DIAGRAMS DETAIL 5 (SHEET 14) FOR MORE DETAILS.

CALCULATED SFS CHECKED MJH

ELECTRICAL DETAILS
TYPICAL ELECTRICAL SERVICE

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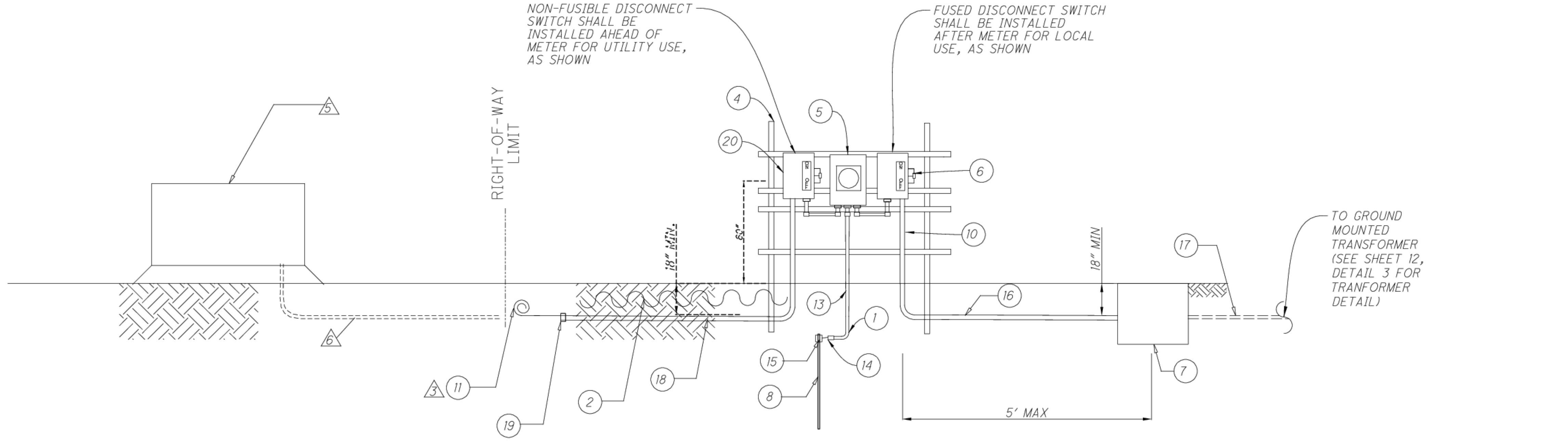
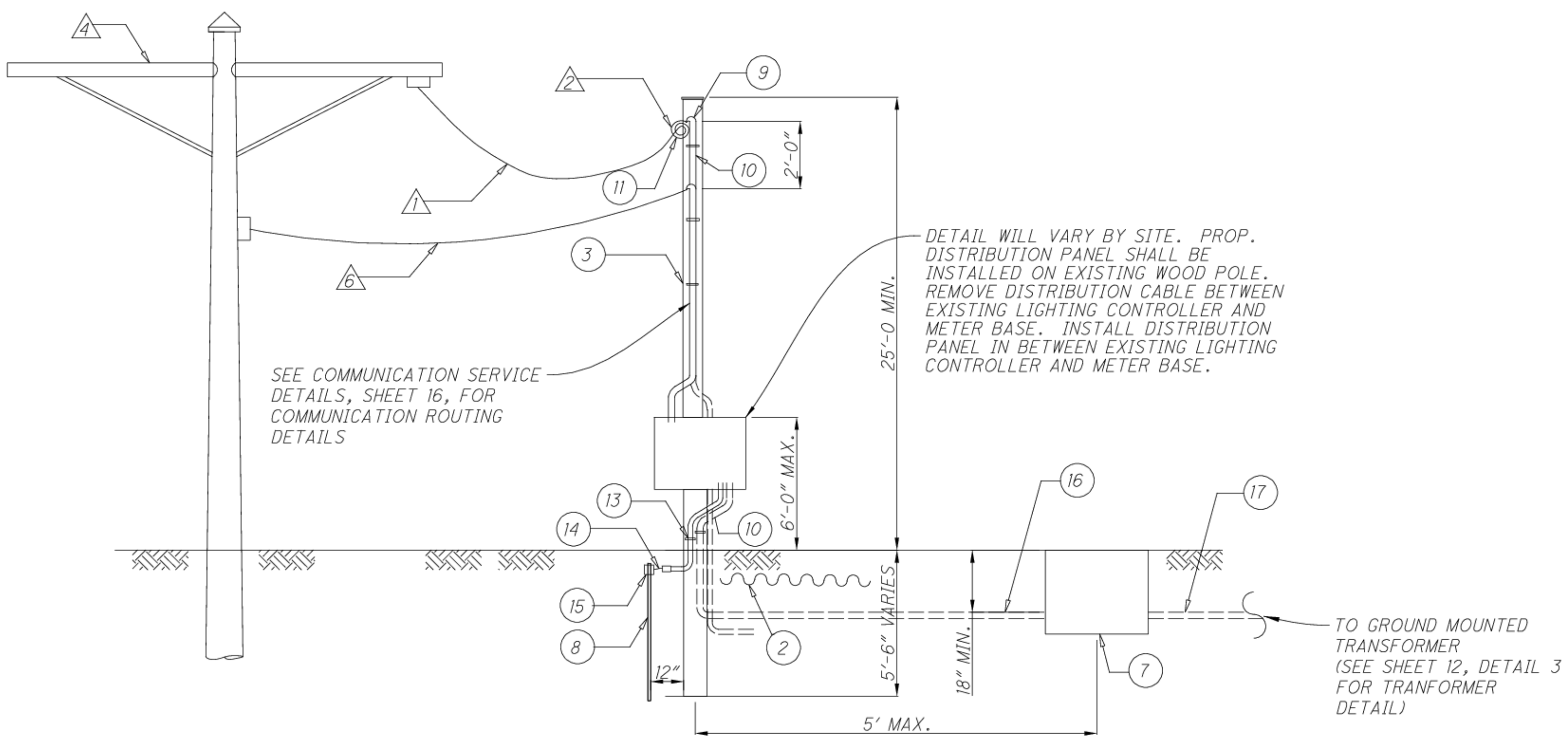


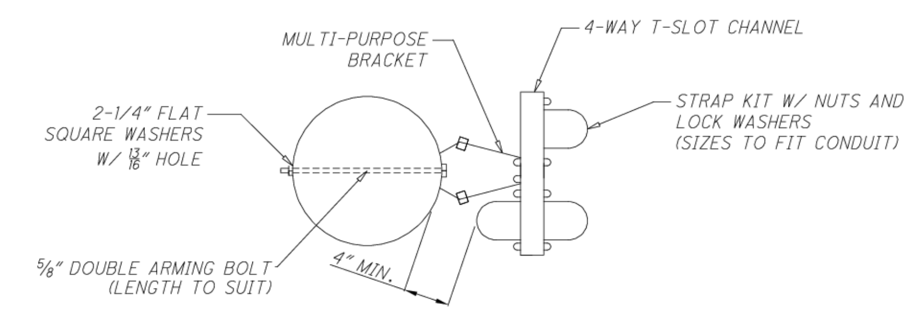
DETAIL 4
POWER SERVICE, AS PER PLAN D

POWER SERVICE, 480V, 3 WIRE,
1 PHASE, PER PLAN
*SEE STANDARD CONSTRUCTION DRAWING HL-40.20 FOR MORE DETAILS
*SEE TYPICAL ONE-LINE DIAGRAM DETAIL 5 (SHEET 14) FOR MORE DETAILS.

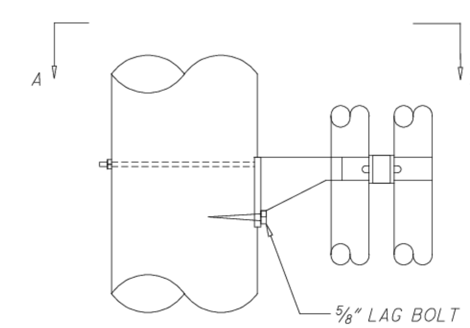


DETAIL 6
POWER SERVICE, AS PER PLAN E

POWER SERVICE, 480V, 3 WIRE,1 PHASE, LIGHTING CONTROL CONTROLLER RETROFIT
*SEE STANDARD CONSTRUCTION DRAWING HL-40.10 FOR MORE DETAILS.
*SEE TYPICAL ONE-LINE DIAGRAMS DETAIL 4 (SHEET 14) FOR MORE DETAILS.



ELEVATION A-A



DETAIL 5
CONDUIT MOUNTING BRACKET

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ELECTRICAL DETAILS
TYPICAL ELECTRICAL SERVICE

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NOTES:

1. SEE PLAN SHEETS FOR SITE SPECIFIC ELECTRICAL EQUIPMENT RATINGS.

2. SERVICE ENTRANCE CONDUCTORS SIZED PER PLAN.

3. NEUTRAL AND GROUND BONDED AT SERVICE ENTRANCE EQUIPMENT.

4. SEE GENERAL NOTES FOR ADDITIONAL POWER SERVICE DETAILS.

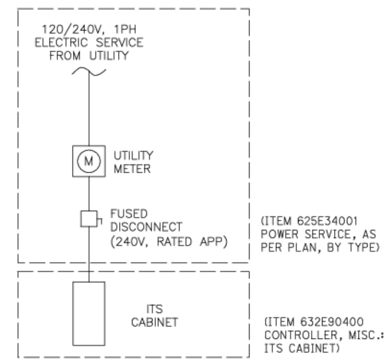
KEYNOTES:

1. VERIFY EXISTING ELECTRICAL EQUIPMENT RATINGS AND SERVICE ENTRANCE CONDUCTOR SIZES.

2. MAIN CIRCUIT BREAKER SHALL BE SIZED ACCORDING TO THE FUSE RATING OF EXISTING FUSED DISCONNECT SWITCH.

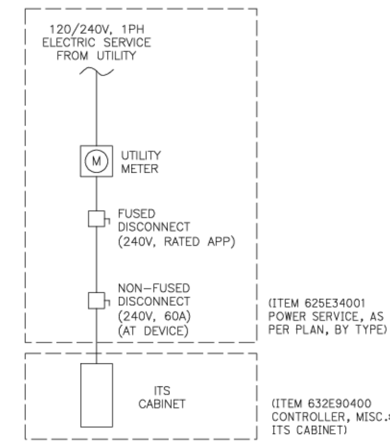
3. LIGHTING CONTROL CENTER CIRCUIT BREAKER SHALL BE SIZED ACCORDING TO THE FUSE RATING OF EXISTING LIGHTING CONTROL CENTER.

4. VERIFY WITH DP&L IF EXISTING FUSED DISCONNECT IS TO BE REINSTALLED BEFORE THE EXISTING UTILITY METER.



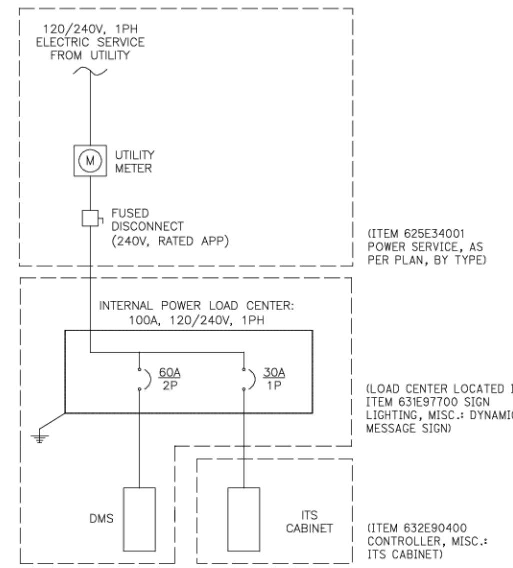
DETAIL 1

TYPICAL ONE-LINE FOR POWER SERVICE, TYPES A AND B, WITHOUT ADDITIONAL DISCONNECT SWITCH



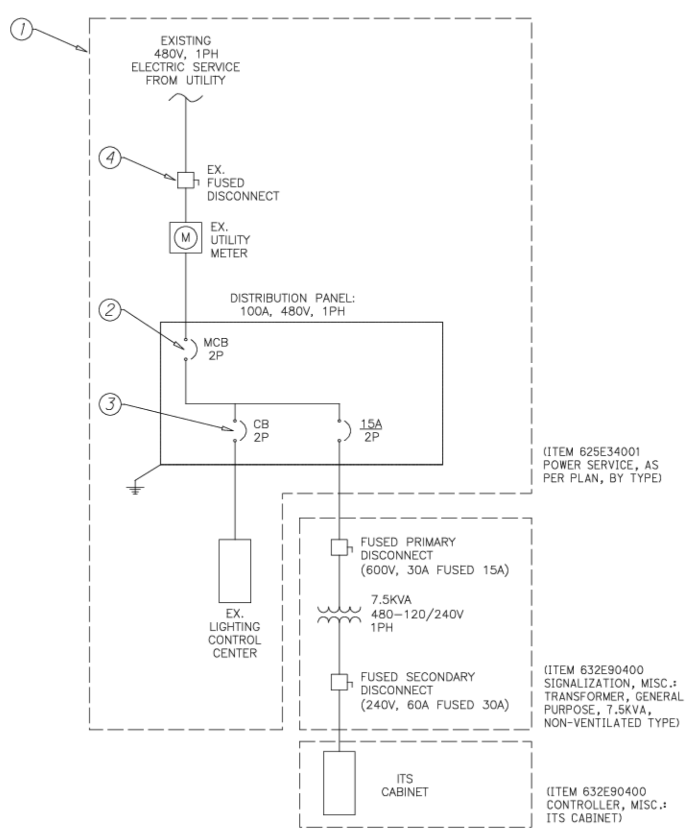
DETAIL 2

TYPICAL ONE-LINE FOR POWER SERVICE, TYPES A AND B, WITH ADDITIONAL DISCONNECT SWITCH



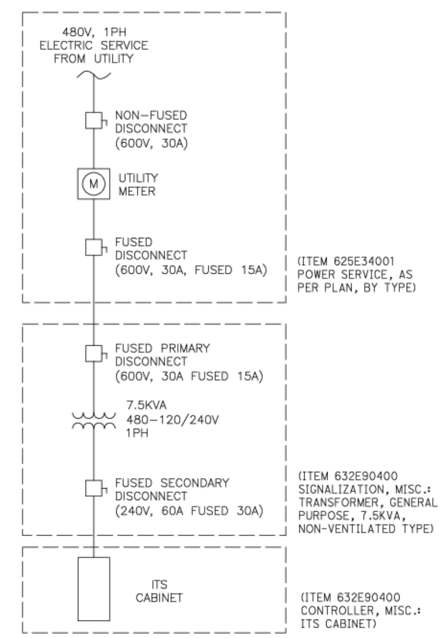
DETAIL 3

TYPICAL ONE-LINE FOR POWER SERVICE, TYPE A, WITH DISTRIBUTION PANEL



DETAIL 4

TYPICAL ONE-LINE FOR POWER SERVICE, TYPE E, MODIFIED EXISTING STREET LIGHT CONTROL CENTER



DETAIL 5

TYPICAL ONE-LINE FOR POWER SERVICE, TYPES C AND D, WITH STEP-DOWN TRANSFORMER LOCATED AT ITS CABINET

ELECTRICAL DETAILS
TYPICAL ONE LINE DIAGRAMS

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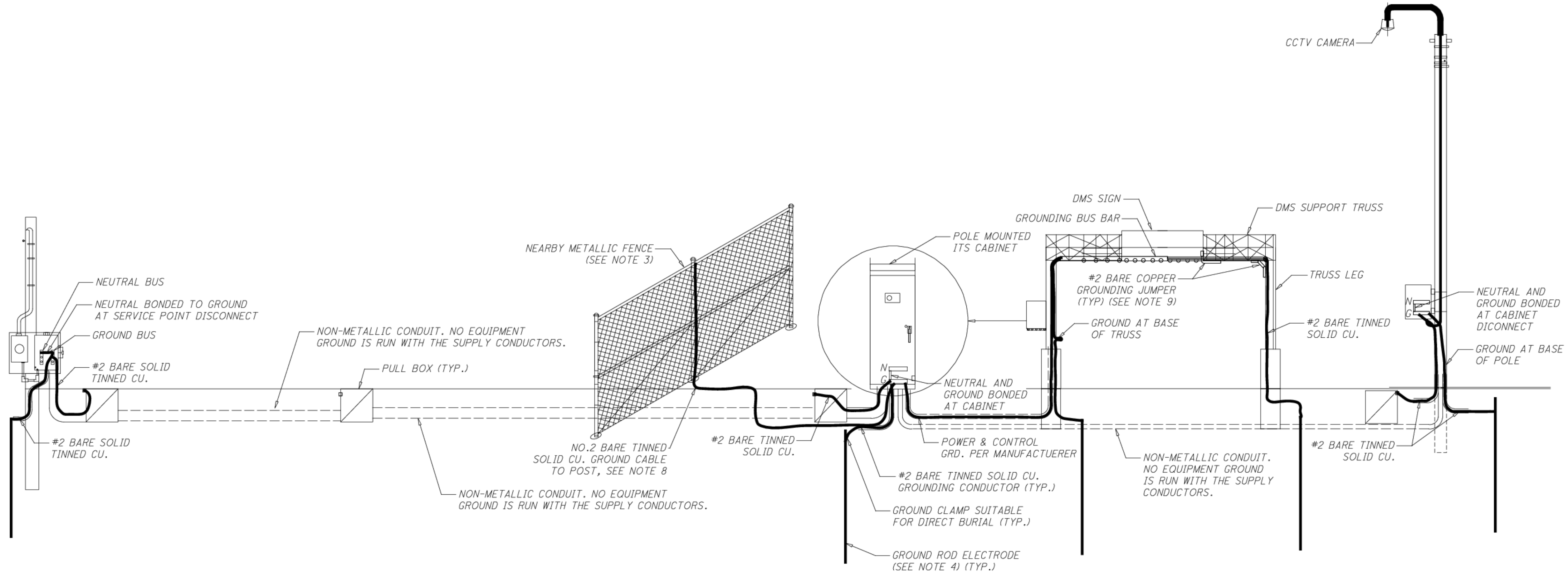


DMS SITE GROUND RING

ITS CABINET SHALL BE POLE MOUNTED
THIS DIAGRAM IS TO SHOW THE ROUTING AND PLACEMENT OF CONDUIT, CABLES, AND GROUND RODS.

NOTES:

1. ADDITIONAL GROUND ROD ELECTRODES SHALL BE ADDED TO GROUNDING CONDUCTOR AS REQUIRED UNTIL RESISTANCE TO GROUND IS 5 OHMS OR LESS FOR DEVICE LOCATIONS AND 25 OHMS OR LESS AT POWER SERVICE AND PULL BOX. IF ADDITIONAL GROUND ROD ELECTRODES ARE REQUIRED IN ORDER TO ACHIEVE REQUIRED RESISTANCE THEY SHALL RADIATE OUT FROM EXISTING GROUND ROD ELECTRODES, SHALL BE CONNECTED WITH #2 BARE TINNED SOLID CONDUCTOR, AND SHALL BE 30' FROM CONNECTED GROUND ROD. ALL COMMUNICATION EQUIPMENT GROUNDING SITES SHALL BE TESTED FOR RESISTANCE TO GROUND USING THE THREE-POINT/FALL-OF-POTENTIAL TEST PRE ANSI/I/EEE STD 81. SEE GROUNDING SPECIFICATIONS.

2. GROUND ROD ELECTRODES SHALL NOT BE ROUTED THROUGH FOUNDATIONS.

3. FENCES AND OTHER METALLIC STRUCTURES WITH PATHS TO GROUND SHALL BE CONNECTED TO THE GROUNDING CONDUCTOR IF THEY ARE LOCATED WITHIN 10' OF THE GROUNDING ELECTRODE SYSTEM OR ANY OBJECT GROUNDED TO THE GROUNDING ELECTRODE SYSTEM. SEE STANDARD CONSTRUCTION DRAWING HL-50.11.

4. GROUND ROD ELECTRODES SHALL BE BURIED TO A MINIMUM DEPTH OF 36 INCHES BELOW FINISHED GRADE, WHERE POSSIBLE.

5. CCTV CAMERA AND ASSOCIATED PULL BOX SHALL BE CONNECTED TO THE DMS SITE GROUND RING ONLY WHEN EITHER THE DMS TRUSS OR THE DMS CONTROL CABINET IS LOCATED CLOSER TO THE BASE OF THE CCTV POLE THAN THE LENGTH OF THE CCTV POLE.

6. ALL EQUIPMENT GROUNDS SHALL BE PROPERLY CONNECTED TO A CHASSIS; ALL PAINT AND OTHER COATINGS, INCLUDING GALVANIZATION, SHALL BE REMOVED PRIOR TO TERMINATION OF A GROUND. AFTER THE GROUND IS TERMINATED A NON-OXIDIZING COATING SHALL BE PAINTED OVER THE EXPOSED METAL SURFACES.

7. GROUNDING ELECTRODE SYSTEM CONNECTIONS TO FENCING SHALL BE MADE USING HEAVY DUTY TINNED LISTED PIPE CLAMPS DESIGNED FOR GROUNDING AND STAINLESS STEEL HARDWARE. SEE STANDARD CONSTRUCTION DRAWING HL-50.11.

8. ALL GROUNDING DIAGRAMS ARE SCHEMATIC ONLY.

9. ALL METALLIC MEMBERS OF THE DMS TRUSS AND THE DMS SIGN WITHIN 6 FEET OF EACH OTHER SHALL BE BONDED TOGETHER. WELDS SHALL BE CONSIDERED AN ACCEPTABLE BONDING METHOD. U-BOLT CONNECTIONS SHALL NOT BE CONSIDERED AN ACCEPTABLE BONDING METHOD.

10. AT LEAST AN 8 INCH MINIMUM BENDING RADIUS SHALL BE MAINTAINED ON ALL GROUNDING ELECTRODE CONDUCTORS. THE ANGLE OF ANY BEND SHALL NOT BE LESS THAN 90 DEGREES.

11. GROUNDING CONDUCTORS SHALL ALWAYS ROUTE AS STRAIGHT AS POSSIBLE. "U" FORM JUMPERS SHALL BE ACCEPTABLE ONLY FOR GATES AND DOORS.

12. THE QUANTITY OF GROUNDING ELECTRODE CONDUCTORS CONNECTED TO A GROUND ROD ELECTRODE SHALL BE LIMITED TO FOUR.

13. WHENEVER POSSIBLE, GROUND ROD ELECTRODES SHALL BE INSTALLED NO CLOSER THAN 16.5' FROM A FOUNDATION.

14. SEE SHEET 19 FOR DETAILED NEUTRAL AND EQUIPMENT GROUND CONDUCTOR INSTALLATION REQUIREMENTS.

15. GROUNDING ELECTRODE CONDUCTORS SHALL BE INSTALLED IN ONE CONTINUOUS LENGTH. SPLICING SHALL BE PERMITTED ONLY BY IRREVERSIBLE COMPRESSION -TYPE CONNECTORS LISTED AS GROUNDING AND BONDING EQUIPMENT OR BY EXOTHERMIC WELDING PROCESS.

CALCULATED –
CHECKED MJH

ELECTRICAL DETAILS SITE GROUNDING

VAR-Dayton Springfield Freeway Management System

LEGEND

WORK BY UTILITY:

1. AERIAL SERVICE ENTRANCE CABLE FURNISHED AND INSTALLED BY ELECTRIC UTILITY, SEE ELECTRIC SERVICE DETAILS, SHEETS 11-13.
2. COMMUNICATIONS CABLE FURNISHED AND INSTALLED BY COMMUNICATION PROVIDER.

WORK BY CONTRACTOR:

(1) CONTRACTOR FURNISHED AND INSTALLED CLASS IV WOOD POLE (MINIMUM 25' LONG). SEE TABLE ON THIS SHEET FOR SETTING DEPTHS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FURNISH AND INSTALL A WOOD POLE THAT IS SUFFICIENT IN LENGTH TO MEET MIN. ROADWAY CLEARANCE OF 20FT. WOOD POLE SHALL BE FURNISHED AND INSTALLED AS PART OF THE POWER SERVICE FOR SHARED UTILITY SITES.

(2) 4" CONDUIT RISER.
SEE DETAIL 5 - CONDUIT MOUNTING BRACKET (SHEET 13) FOR MOUNTING DETAILS.

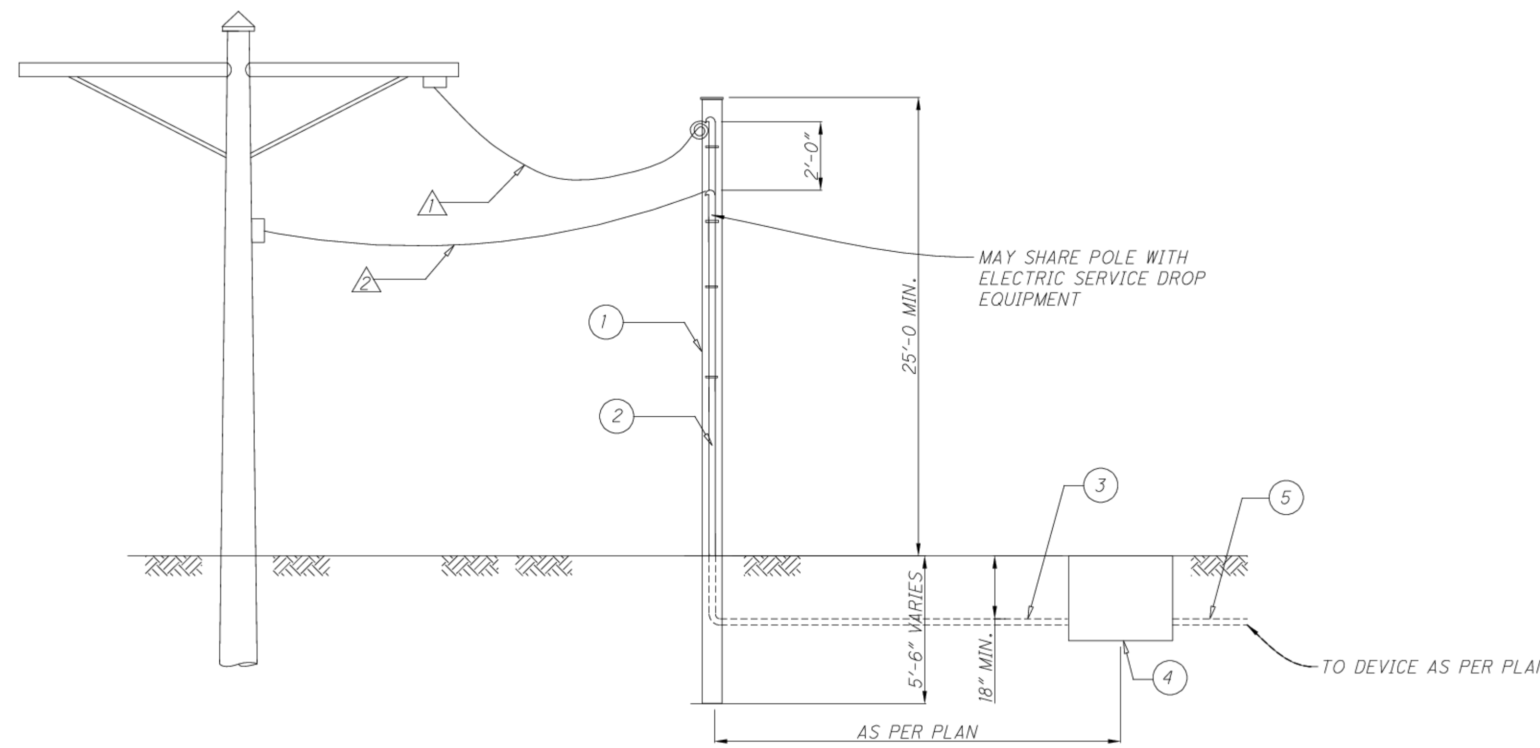
(3) SCHEDULE 40 PVC CONDUIT IN TRENCH. CONDUIT SHALL BE 4" MINIMUM FOR COMMUNICATION. TERMINATE THIS CONDUIT IN PULL BOX. CONDUIT INSTALLED A MINIMUM OF 18" BELOW GRADE.

(4) PULL BOX, 32" WILL BE INSTALLED AT THE LOCATION SHOWN IN THE PLAN.

(5) CONDUIT PER PLAN BY CONTRACTOR.

WOOD POLE SETTING DEPTH CHART:

LENGTH	WOOD POLE SETTING DEPTH
30	5' - 6"
35	6' - 0"
40	6' - 0"
45	6' - 6"
50	7' - 0"
55	7' - 6"
60	8' - 0"
65	8' - 6"



DETAIL 1
COMMUNICATION SERVICE

NOTES:

1. CONTRACTOR MUST COORDINATE WITH UTILITIES' FIELD ENGINEER. CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING AND COORDINATING OF ALL UTILITIES, RELATED WORK, AND INSPECTIONS AS NECESSITATED BY THE PROJECT.

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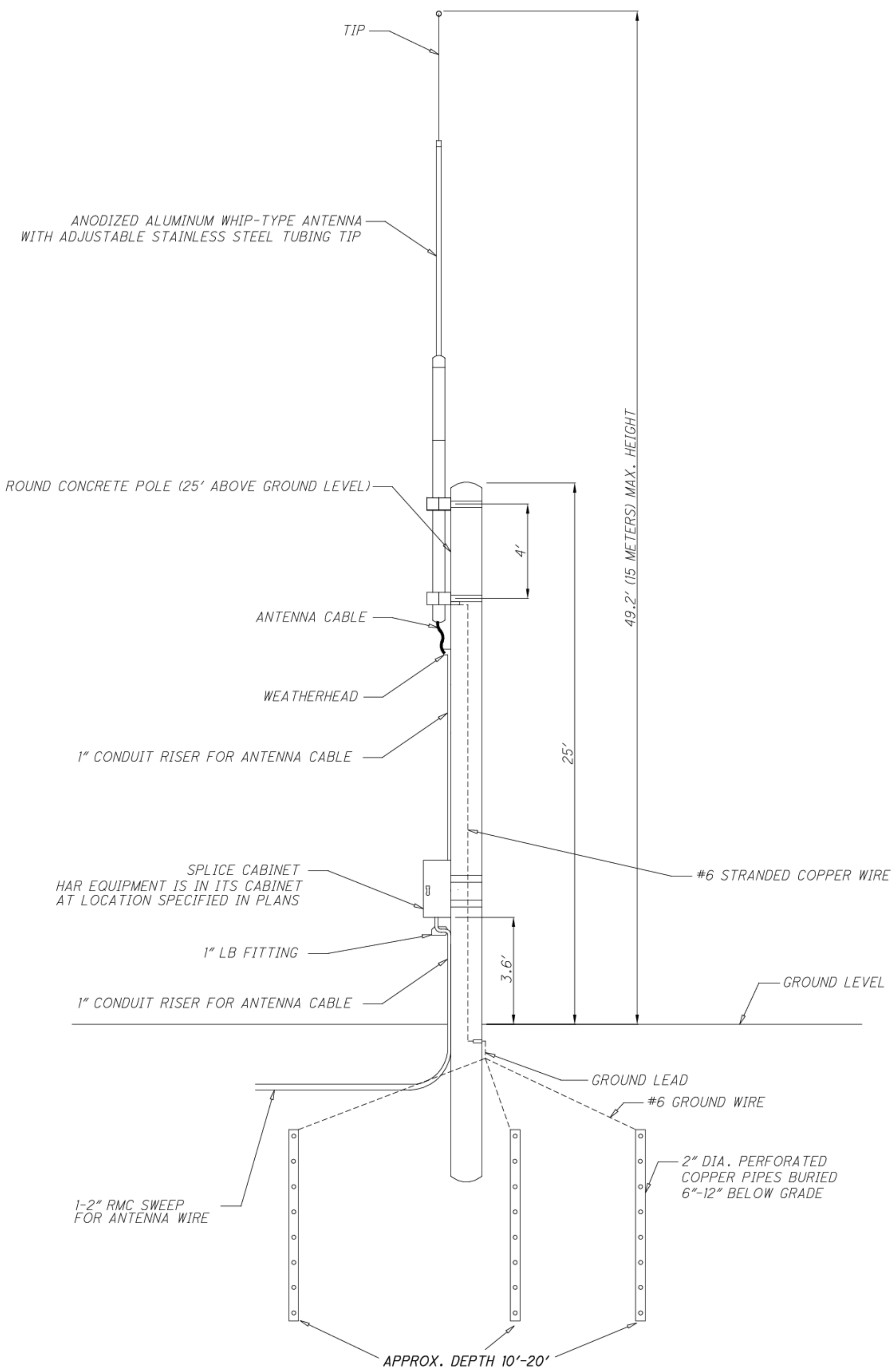
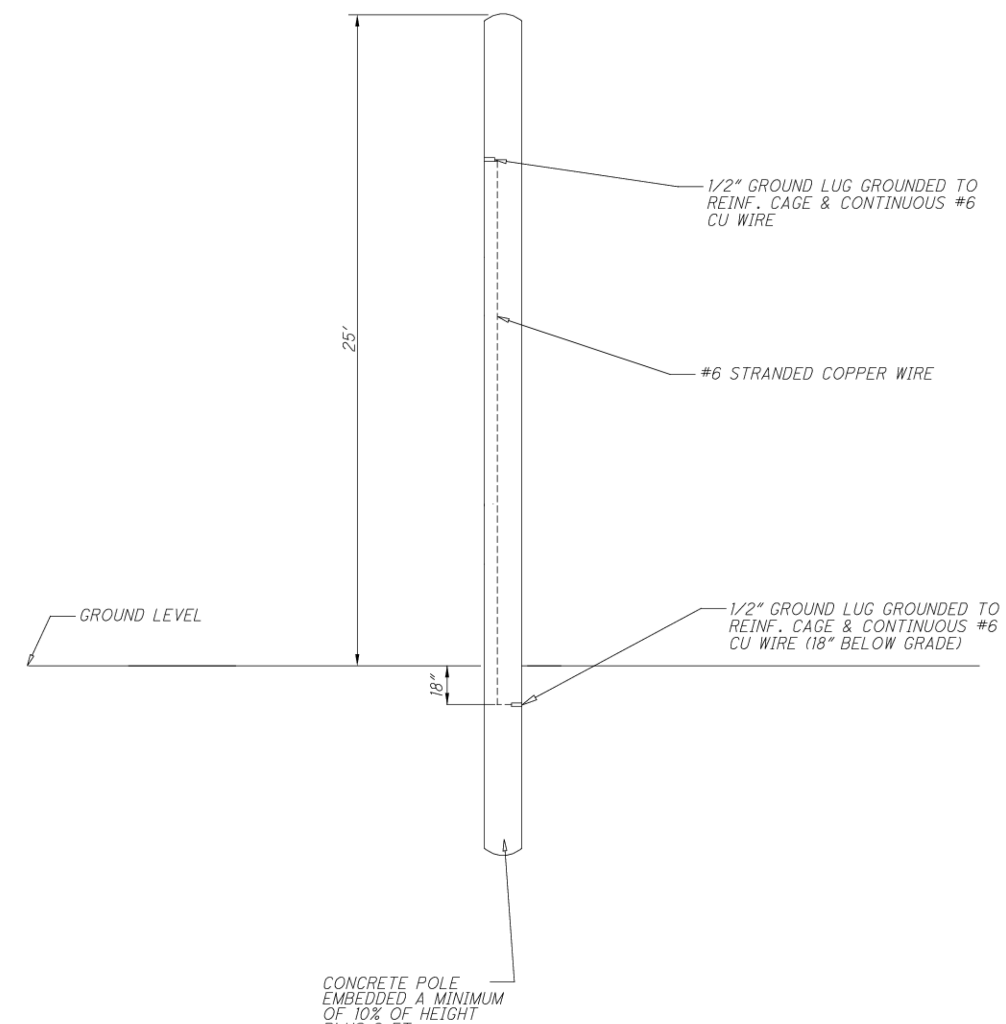
CALCULATED SFS CHECKED MJH

COMMUNICATION SERVICE DETAILS

VAR-Dayton Springfield Freeway Management System



TRIAD GROUND SYSTEM
NOT TO SCALE

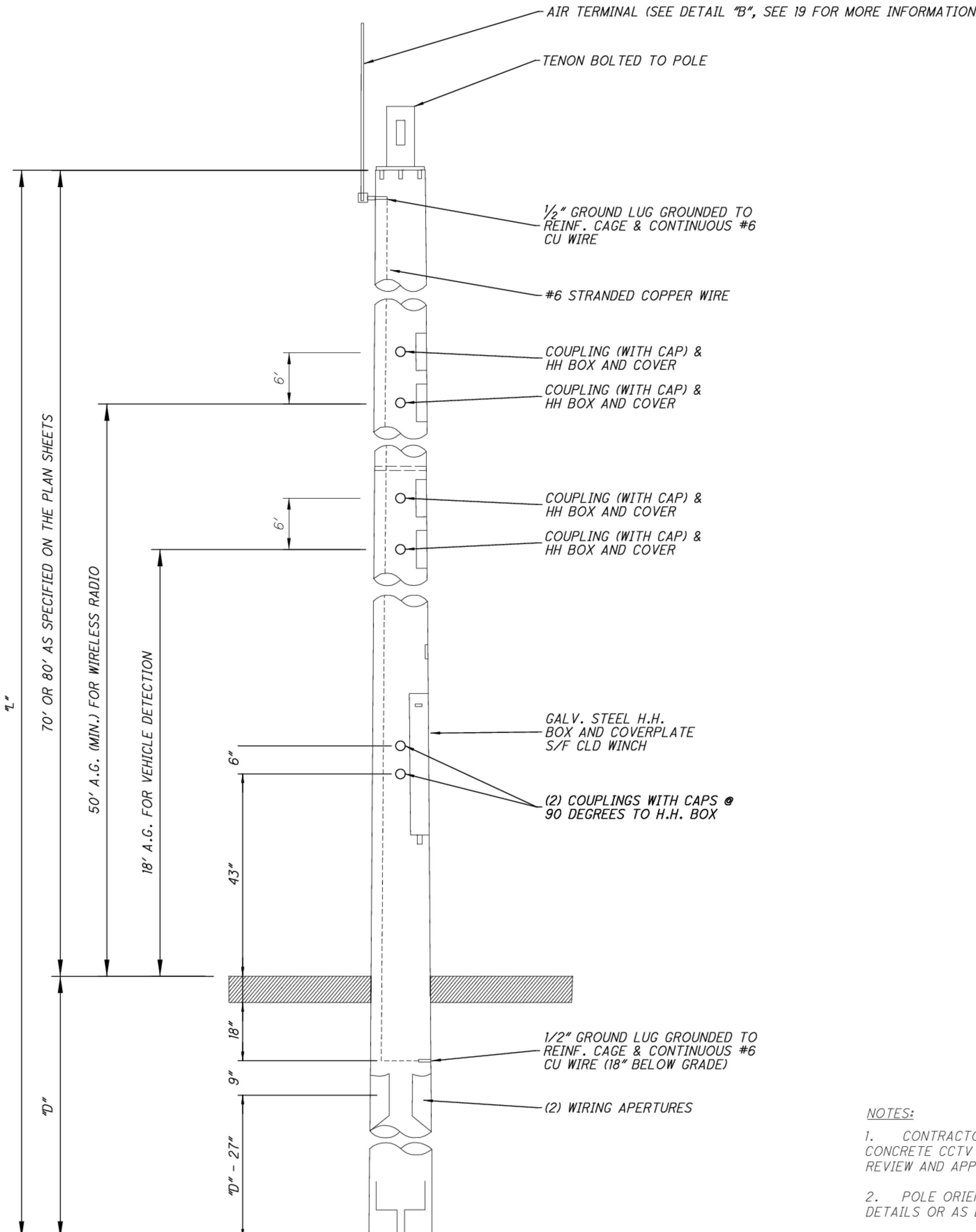


HAR POLE (CONCRETE)
NOT TO SCALE

CALCULATED RTM
CHECKED MJH

DEVICE DETAILS
TYPICAL HIGHWAY ADVISORY RADIO (HAR)

VAR-Dayton Springfield Freeway Management System



CCTV CAMERA POLE (CONCRETE)
(NOT TO SCALE)

NOTES:

1. CONTRACTOR SHALL PROVIDE THE DETAILS OF A 70' ABOVE GRADE CONCRETE CCTV POLE AND A 80' ABOVE GRADE CONCRETE CCTV POLE FOR REVIEW AND APPROVAL BY THE ENGINEER.

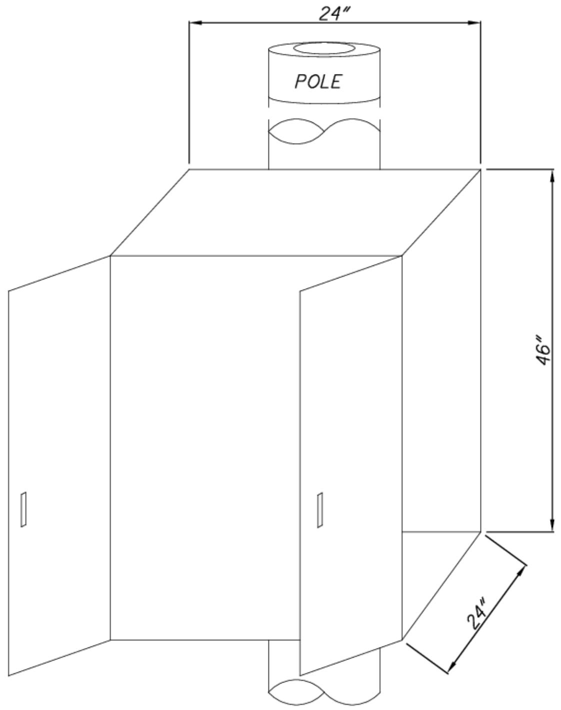
2. POLE ORIENTATION SHALL BE AS SPECIFIED IN THE POLE ORIENTATION DETAILS OR AS DETERMINED BY THE ENGINEER.

3. THIS DETAIL SHEET IS PROVIDED TO SHOW TYPICAL INFORMATION TO BE PROVIDED BY CONTRACTOR FOR 70' AND 80' CCTV CAMERA POLE DETAIL.

CALCULATED RTM
CHECKED MJH

DEVICE DETAILS
TYPICAL CCTV POLE

VAR-Dayton Springfield Freeway Management System



DETAIL 'A'
ITS CABINET
NOT TO SCALE

CCTV POLE CAMERA ASSEMBLY NOTES:

1. THIS DRAWING REPRESENTS ONLY A TYPICAL SITE OVERVIEW OF THE SYSTEM. THIS DRAWING IS NOT INTENDED TO SHOW ALL DEVICES OR COMBINATION OF DEVICES IN THE SYSTEM. BASED ON SITE CONFIGURATIONS EACH SITE MAY CONTAIN ONE OR MORE COMBINATIONS NOT SHOWN ON THE PLANS.

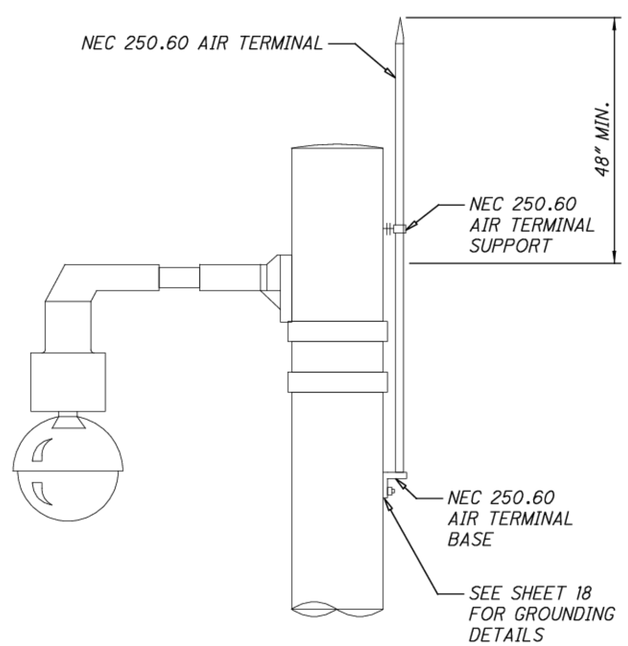
2. CABINETS SHOULD NOT BE LOCATED ON THE SAME SIDE OF THE POLES AS THE CCTV DOME HOUSING.

3. CCTV POLE SHALL BE INSTALLED WITH CAMERA LOWERING SYSTEM.

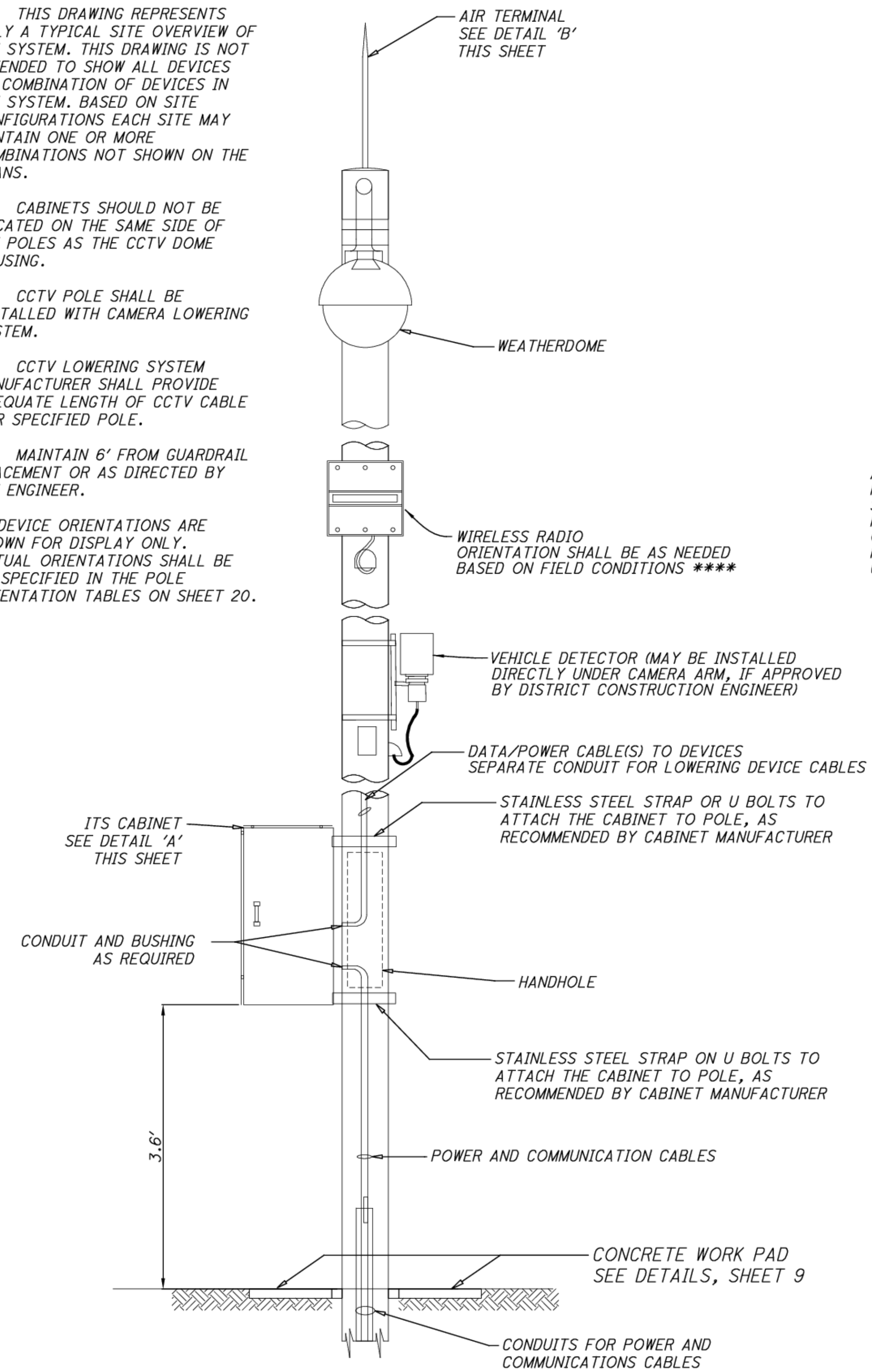
4. CCTV LOWERING SYSTEM MANUFACTURER SHALL PROVIDE ADEQUATE LENGTH OF CCTV CABLE FOR SPECIFIED POLE.

5. MAINTAIN 6' FROM GUARDRAIL PLACEMENT OR AS DIRECTED BY THE ENGINEER.

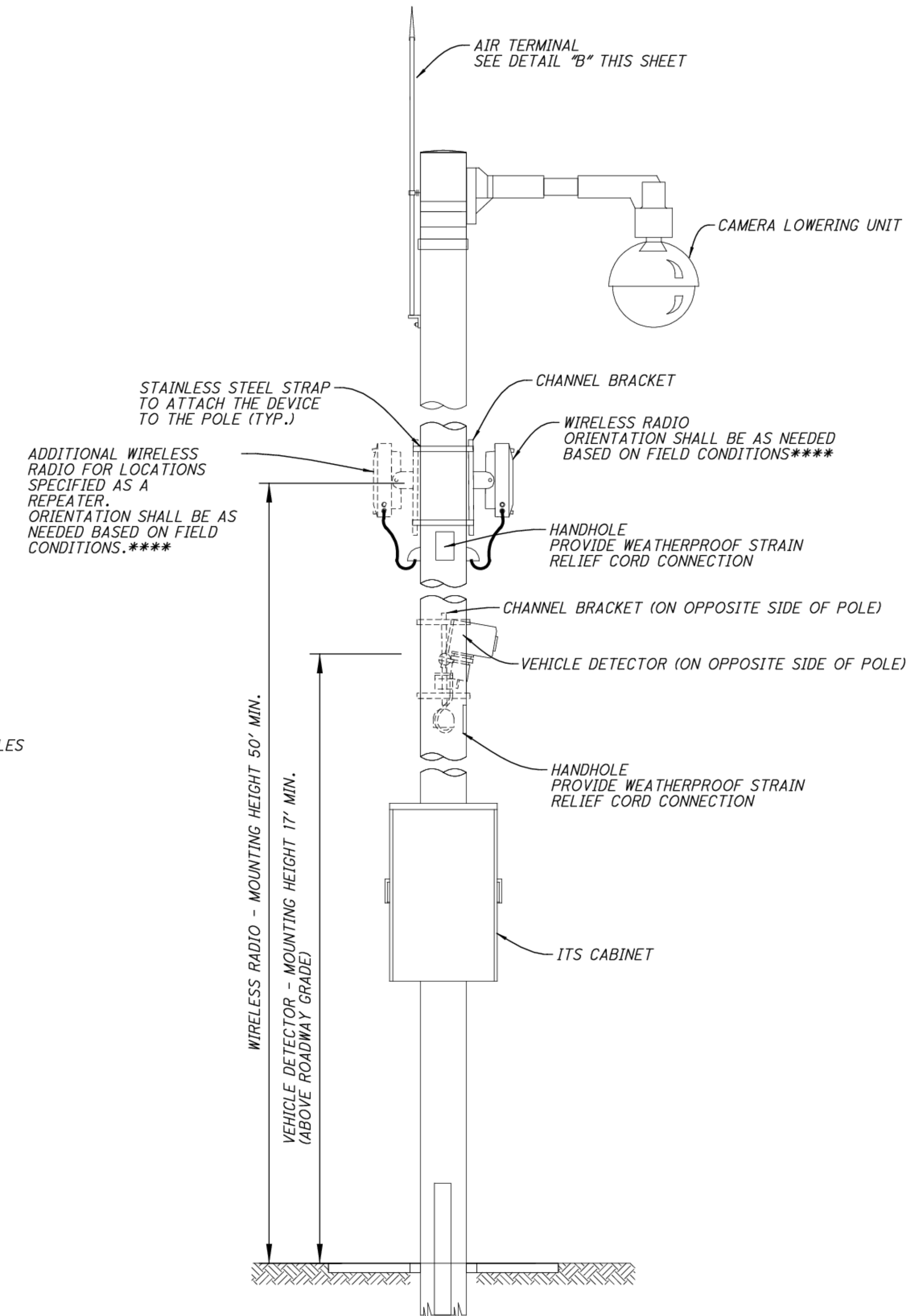
6. DEVICE ORIENTATIONS ARE SHOWN FOR DISPLAY ONLY. ACTUAL ORIENTATIONS SHALL BE AS SPECIFIED IN THE POLE ORIENTATION TABLES ON SHEET 20.



DETAIL 'B'
AIR TERMINAL
NOT TO SCALE



CCTV CAMERA INSTALLATION
NOT TO SCALE



CCTV CAMERA INSTALLATION
NOT TO SCALE

**** - WIRELESS RADIO INFORMATION AND ATTACHMENTS PROVIDED FOR FUTURE USE

CALCULATED RTM
CHECKED MJH

DEVICE DETAILS
TYPICAL CCTV CAMERA POLE ASSEMBLY

VAR-Dayton Springfield Freeway Management System

SITE NUMBER	SITE LOCATION	DEVICE ID	REFERENCE ROADWAY	REFERENCE ANGLE (DEG)	POLE ITEM ANGLE (DEG) FROM CAMERA ARM		
				CCTV CAMERA ARM	CLD HANDHOLE	ITS CABINET	VEHICLE DETECTOR
1	I-70 & CRESTWAY RD.	070001C	I-70	0	180	270	
2	I-70 & HOKE RD.	070007C	I-70	315	180	270	
3	I-70 & TAYWOOD RD.	070009C	I-70	0	180	270	*
4	I-70 AIRPORT ACCESS RD.	070011C	AIRPORT ACCESS RD.	135	180	270	
5	I-70 & I-75	070013C	I-75	45	180	270	
6	I-70 & SR 202	070015C	I-70	315	180	270	
7	I-70 & SR 201	070017C	I-70	0	180	270	
8	I-70 & SR 235/SR 4	070019C	I-70	0	180	270	
9	I-70 & I-675	070021C	I-675	45	180	270	
10	I-70 & SNIDER RD.	070027C	I-70	0	180	270	*
11	I-70 & SR 4	070029C	I-70	45	180	270	
12	I-70 & US 68	070031C	I-70	315	180	270	
13	I-70 & SR 72	070033C	I-70	0	180	270	
14	I-70 & SR 41	070035C	I-70	0	180	270	
15	I-70 & PLATTSBURG RD.	070037C	I-70	0	180	270	
16	I-70 & BUENA VISTA RD.	070041C	I-70	0	180	270	*
17	I-75 & SR 73	075001C	I-75	45	180	270	
18	I-75 & PENNYROYAL RD.	075003C	I-75	0	180	270	
19	I-75 & AUSTIN RD.	075007C	I-75	0	180	270	
20	I-75 SOUTH OF I-675	075009C	I-75	315	180	270	
21	I-75 & LYONS RD.	075011C	I-75	0	180	270	
22	I-75 & SR 725	075015C	I-75	315	180	270	
23	I-75 & E. DIXIE DR.	075017C	I-75	135	180	270	
24	I-75 SOUTH OF DRYDEN RD.	075019C	I-75	0	180	270	
25	I-75 & CARILLON BLVD.	075021C	I-75	0	180	270	*
26	I-75 & US 35	075025C	Ramp US 35 (WB) TO I-75 (SB)	315	180	270	
27	MONTGOMERY CO. BLDG.						
28	I-75 & SR 48 (MAIN ST.)	075029C	EXIT RAMP FROM I-75 (SB)	180	180	270	
29	I-75 & SR 4	075031C	SR 4 RAMP TO I-75 SB	315	180	270	
30	I-75 & STANLEY AVE.	075033C	I-75	0	180	270	
31	I-75 & WAGONER FORD RD.	075035C	I-75	0	180	270	*
32	I-75 & TIMBER LN.						
33	I-75 & NEEDMORE RD.	075039C	NEEDMORE RD.	45	180	270	
34	I-75 & BENCHWOOD RD.	075041C	BENCHWOOD RD.	315	180	270	
35	I-75 & US 40 (NATIONAL RD.)	075043C	US 40	315	180	270	
36	I-75 & NORTHWOODS BLVD.	075047C	NORTHWOODS BLVD.	315	180	270	
37	I-75 & MIA-MOT CO. LINE	075051C	I-75	0	180	270	*
38	I-675 & SR 741	675001C	I-675	45	180	270	
39	I-675 & YANKEE ST.	675003C	YANKEE ST	270	180	270	
40	I-675 & SR 48	675005C	SR-48 TO I-675 SB RAMP	0	180	270	
41	I-675 & WILMINGTON PK.	675007C	I-675	45	180	270	
42	I-675 & INDIAN RIPPLE RD.	675009C	ON RAMP TO I-675 (SB)	135	180	270	
43	I-675 & SHAKERTOWN RD.	675011C	I-675	0	180	270	*
44	I-675 & US 35	675015C	DAYTON-XENIA RD.	135	180	270	
45	I-675 & COL. GLENN HWY.	675017C	SKYLINE RD.	315	180	270	
46	I-675 & N. FAIRFIELD RD.	675019C	I-675	45	180	270	
47	US 35 & SR 49 & W. THIRD ST.	035001C	US 35	315	180	270	
48	US 35 & GETTYSBURG AVE.	035003C	US 35	0	180	270	*
49	US 35 & S. PERRY ST.	035005C	US 35	0	180	270	*
50	US 35 & KEOWEE ST.	035007C	US 35	45	180	270	
51	US 35 & STEVE WHALEN BLVD.	035009C	RAMP FROM US 35 (EB) TO KEOWEE ST.	180	180	270	
52	US 35 & SMITHVILLE RD.	035011C	RAMP TO US 35 (WB)	180	180	270	
53	US 35 & WOODMAN DR.	035013C	US 35	315	180	270	
54	US 35 EAST OF I-675	035019C	US 35	0	180	270	*
55	US 35 & N. FAIRFIELD RD.	035021C	US 35	0	180	270	
56	SR 4 & HARSHMAN RD.	004001C	HARSHMAN RD.	45	180	270	
57	SR 49 & SHILOH SPRINGS RD.	049001C	SR 49	45	180	270	

NOTES:

1. BEFORE FINAL LOCATIONS ARE SET, INSTALLATION ORIENTATION ANGLES SHALL BE COORDINATED WITH THE DISTRICT CONSTRUCTION ENGINEER AND SENIOR ITS ENGINEER.

2. THE INITIAL REFERENCE LINE ANGLE OF 0 DEGREES IS THE PERPENDICULAR LINE FROM THE CAMERA POLE TO THE CENTERLINE OF THE REFERENCED ROADWAY IN THE PLANS. THE CAMERA ARM IS ROTATED CLOCKWISE FROM THE INITIAL REFERENCE LINE TO THE DESIRED ANGLE LISTED IN THE ORIENTATION CHART ON THIS SHEET.

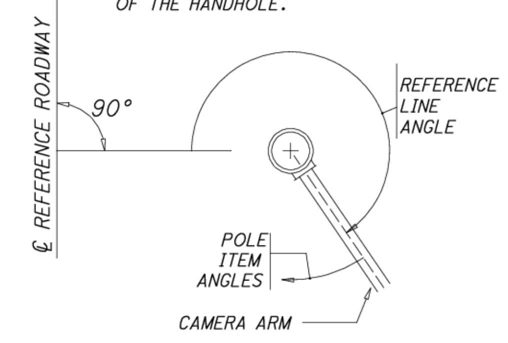
ALL OTHER POLE ITEMS AND ACCESSORIES USE THE DIRECTION OF CAMERA ARM AS A REFERENCE LINE. THESE ITEMS AND ACCESSORIES ARE TO BE ORIENTED CLOCKWISE FROM THE CAMERA ARM REFERENCE LINE TO THE DESIRED ANGLE LISTED IN THE CHART ON THIS SHEET

** = DEVICE ORIENTED ON POLE AS NEEDED TO PERFORM REQUIRED FUNCTION*

NOTES:

1. ALL ANGLES MEASURED CLOCKWISE.

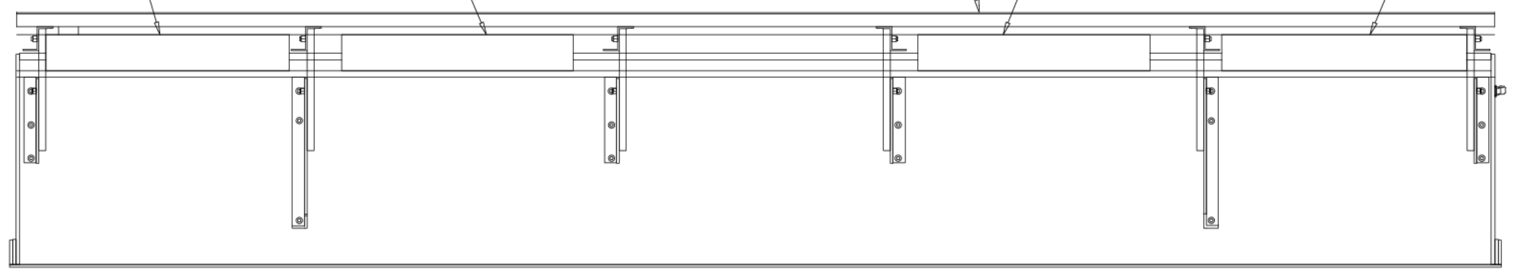
2. INDEX LINE GOES THROUGH THE CENTER OF THE HANDHOLE.



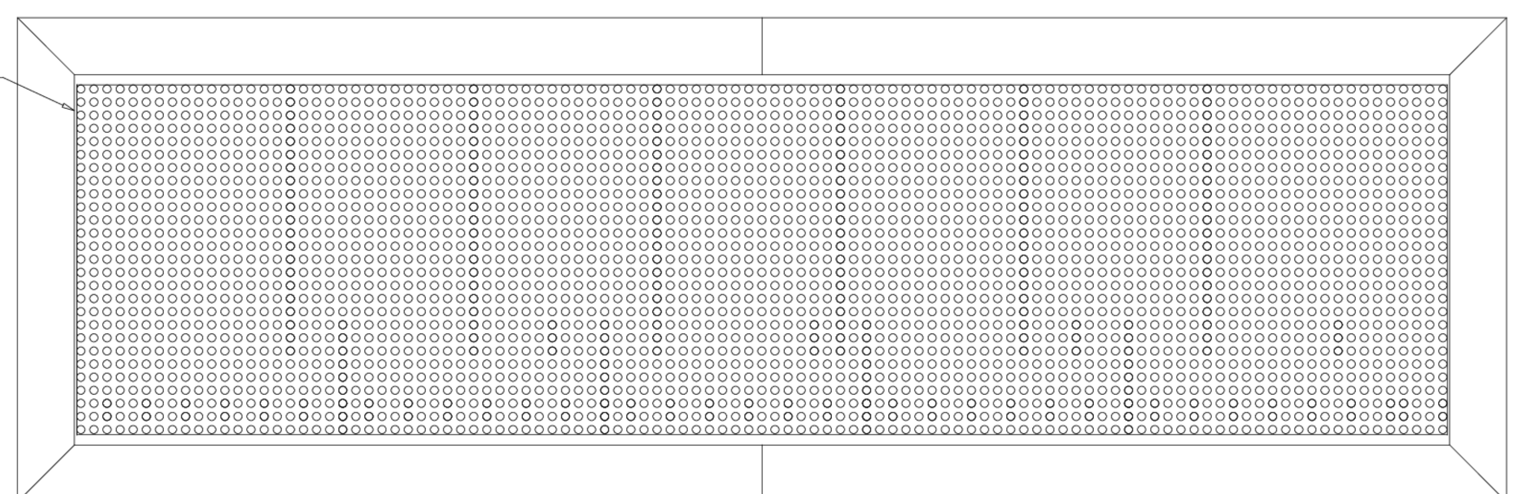
CALCULATED RTM
CHECKED MJH

DEVICE DETAILS
POLE ORIENTATION CHART

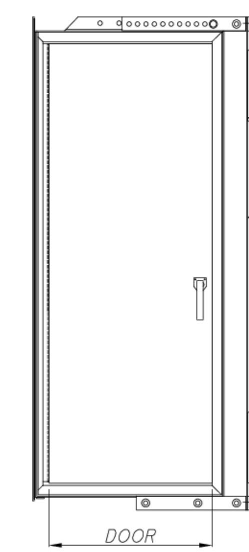
VAR-Dayton Springfield Freeway Management System



TOP VIEW



FRONT VIEW

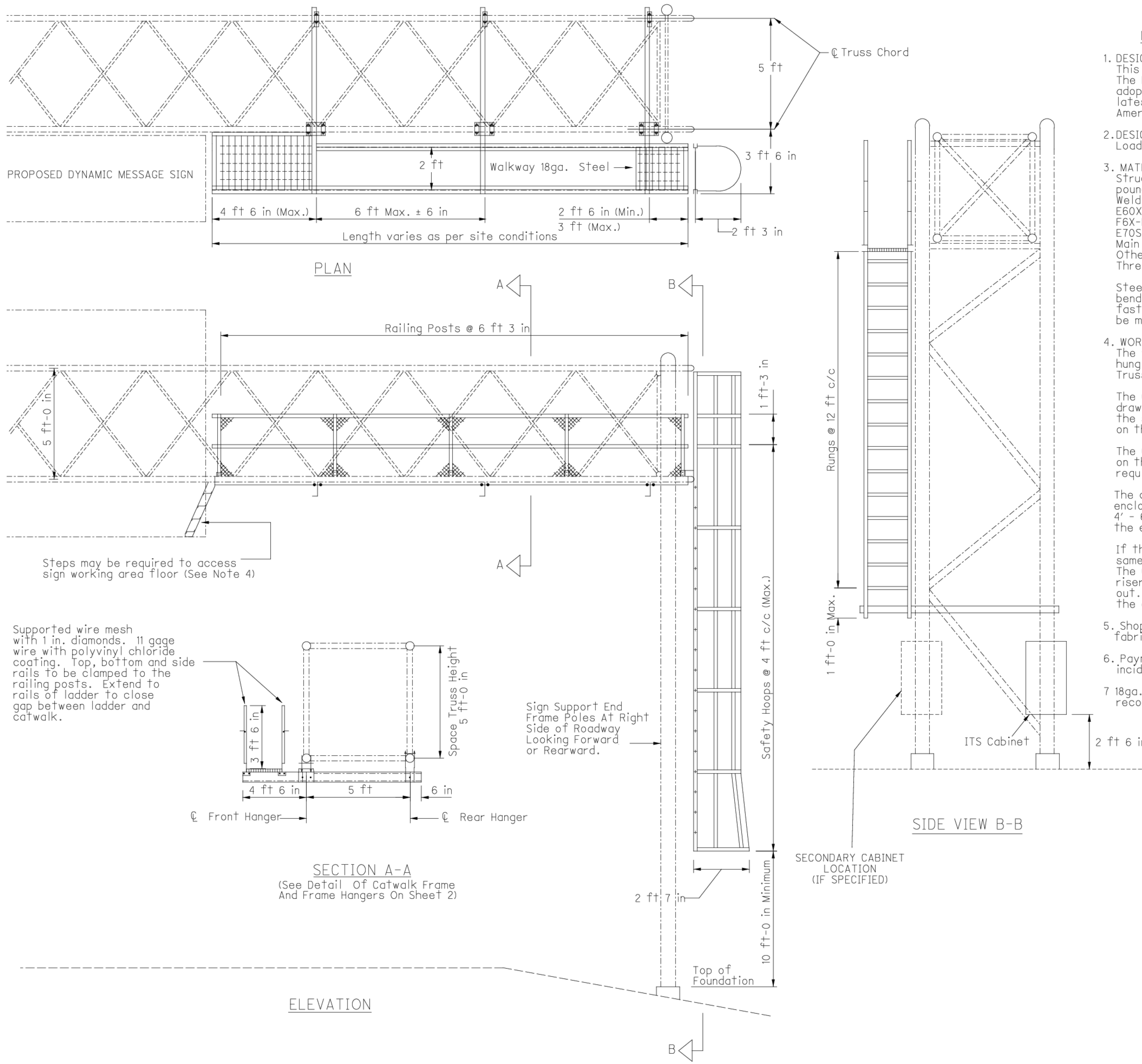


END VIEW
(WALK-IN ENCLOSURE)

CALCULATED –
CHECKED MJH

DEVICE DETAILS
TYPICAL DYNAMIC MESSAGE SIGN

VAR-Dayton Springfield Freeway Management System



NOTES

1. DESIGN SPECIFICATIONS:
   This Catwalk Structure conforms to the Specifications For The Design, Fabrication And Erection Of Structural Steel as adopted by the American Institute Of Steel Construction latest edition, and to the Structural Welding Code of the American Welding Society, latest edition.

2. DESIGN DATA:
   Loading: Walkway Live Load=85 pounds per square foot.

3. MATERIAL:
   Structural Steel ASTM A36 minimum yield strength Fy=36000 pounds per square inch.
   Welding Electrode Grade and Welding Process:
   E60XX or E70XX Manual Shielded Metal-Arc.
   F6X-EXXX or F7X-EXXX Submerged-Arc.
   E70S-X or E700-1 Gas Metal-Arc.
   Main Connections Bolts: ASTM A325
   Other Bolts (As Noted): ASTM A307
   Threaded Bars (stock) ASTM A36

   Steel shall be galvanized to conform to ASTM A123 after cutting bending and welding. Bolts, nuts, washers and similar threaded fasteners shall be galvanized as per ASTM A153. These items may be mechanically zinc coated in accordance to ASTM B695 Class 50.

4. WORK DESCRIPTION:
   The work shall consist of the fabrication and installation of a hung catwalk structure. The host structure will be the Steel Truss Overhead Sign Support TC-15.115 (Modified).

   The Contractor shall prepare full catwalk structure construction drawings to fit the span requirements by the Project Plan at the site of interest. The Construction Drawings shall be based on the Plan, Details and Materials described.

   The Contractor shall determine the exact placement of the sign on the sign support truss to calculate the length of catwalk required.

   The catwalk shall be widened to 3′ - 0″ from the door of the DMS enclosure a minimum distance of 3′ - 0″ and a maximum distance of 4′ - 6″. The door must be able to fully open to 90-degrees from the enclosure.

   If the wearing surface of the proposed catwalk is not at the same level as the bearing deck of the sign, steps shall be provided. The Contractor shall determine the width of tread and height of riser steps to assure that the sign enclosure door will open out. A landing area shall be provided to allow total opening of the door.

5. Shop drawings shall be submitted to the Engineer 10 days before fabrication.

6. Payment for materials and installation of catwalk and ladder is incidental to sign truss.

7. 18ga. steel grating for walkway shall be fastened per manufacturers recommendations.

OFFICE OF TRAFFIC ENGINEERING

DESIGNED | REVIEWED | REVISION DATE 1-28-10 | CHECKED | PID NUMBER 202400

PLAN INSERT SHEET

DYNAMIC MESSAGE SIGN TRUSS CATWALK

VAR-Dayton Springfield Freeway Management System

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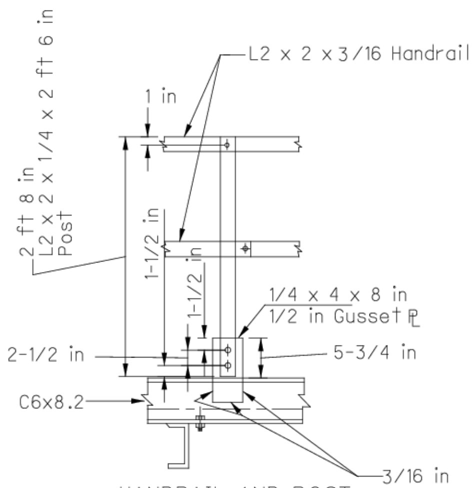
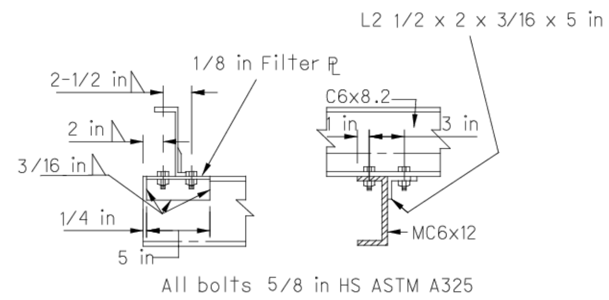


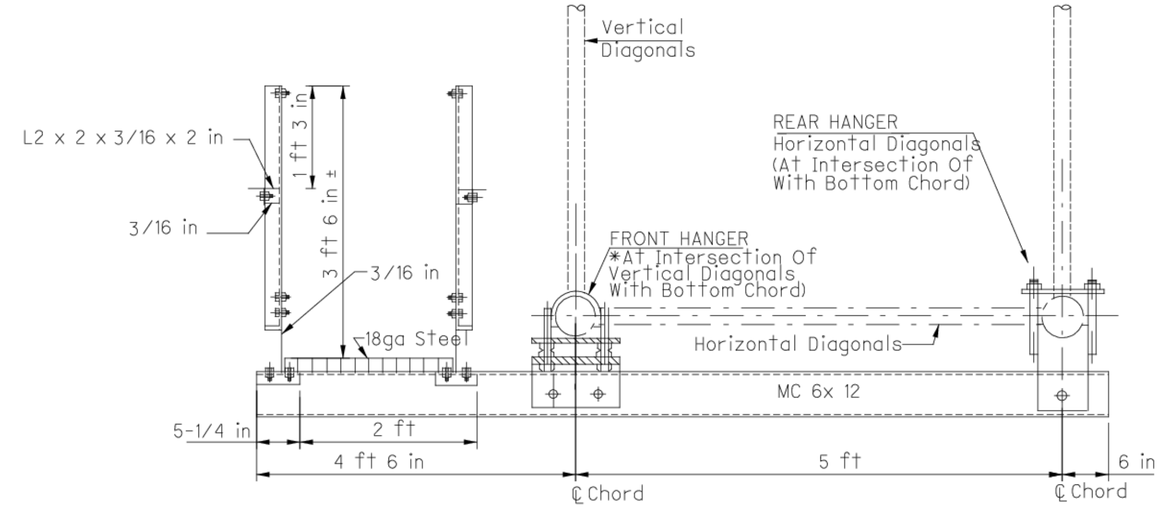
HANDRAIL AND POST



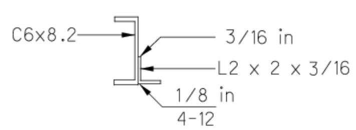
All bolts 5/8 in HS ASTM A325

DETAIL OF CONNECTION

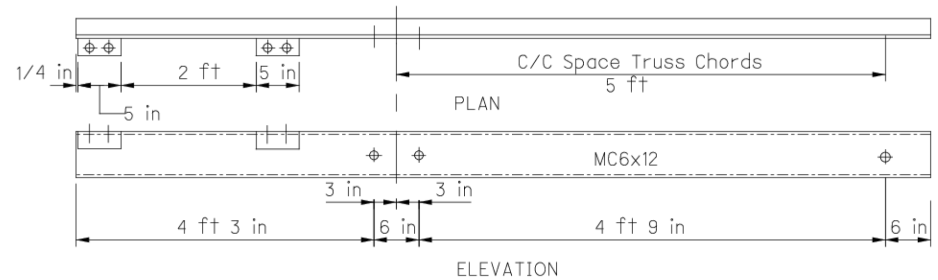
Isolate alum. from galv. steel and use SS bolts/nuts at alum./steel connections.



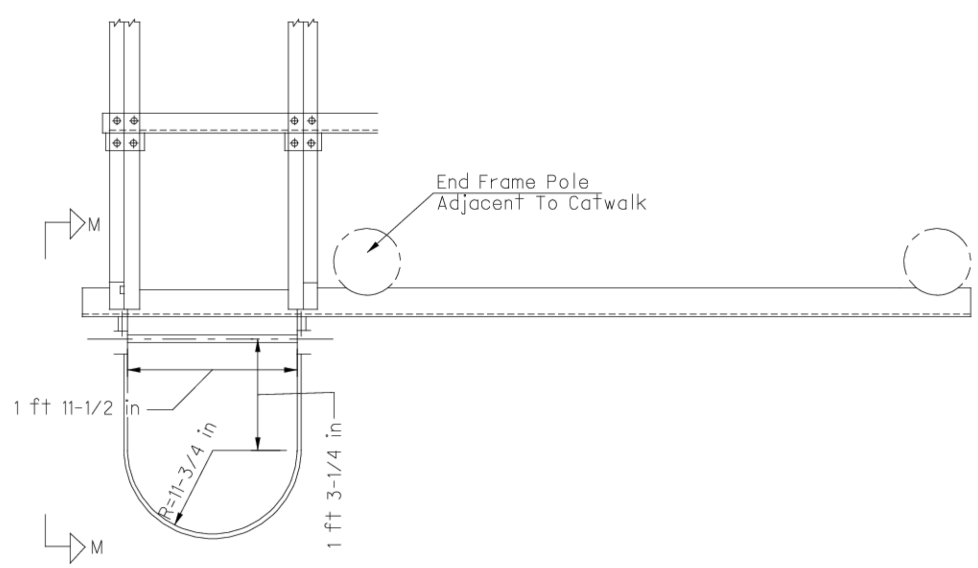
CATWALK CROSS SECTION AND HANGERS



FRAME RAIL
DETAIL

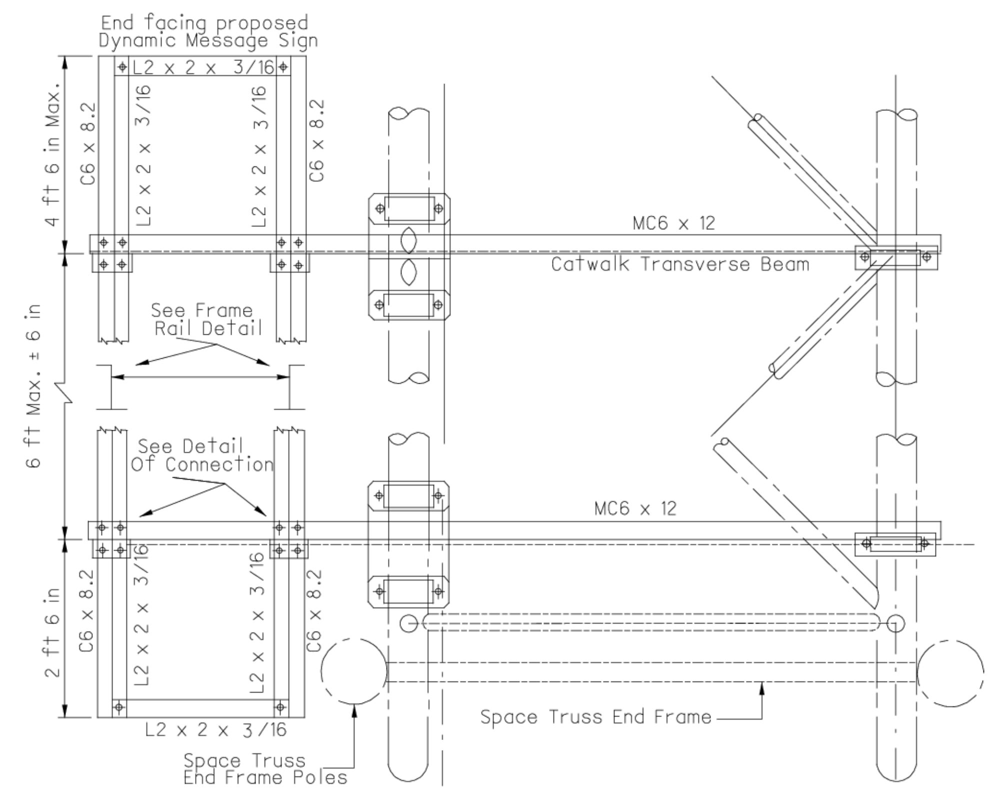


TRANSVERSE BEAM DETAIL



LADDER PLAN

(See page 3 for View M-M)



PLAN

HANDRAIL POSTS AND CAGED LADDER SIDE RAILS NOT SHOWN FOR CLARITY.
(See CATWALK PLAN On Sheet 1)

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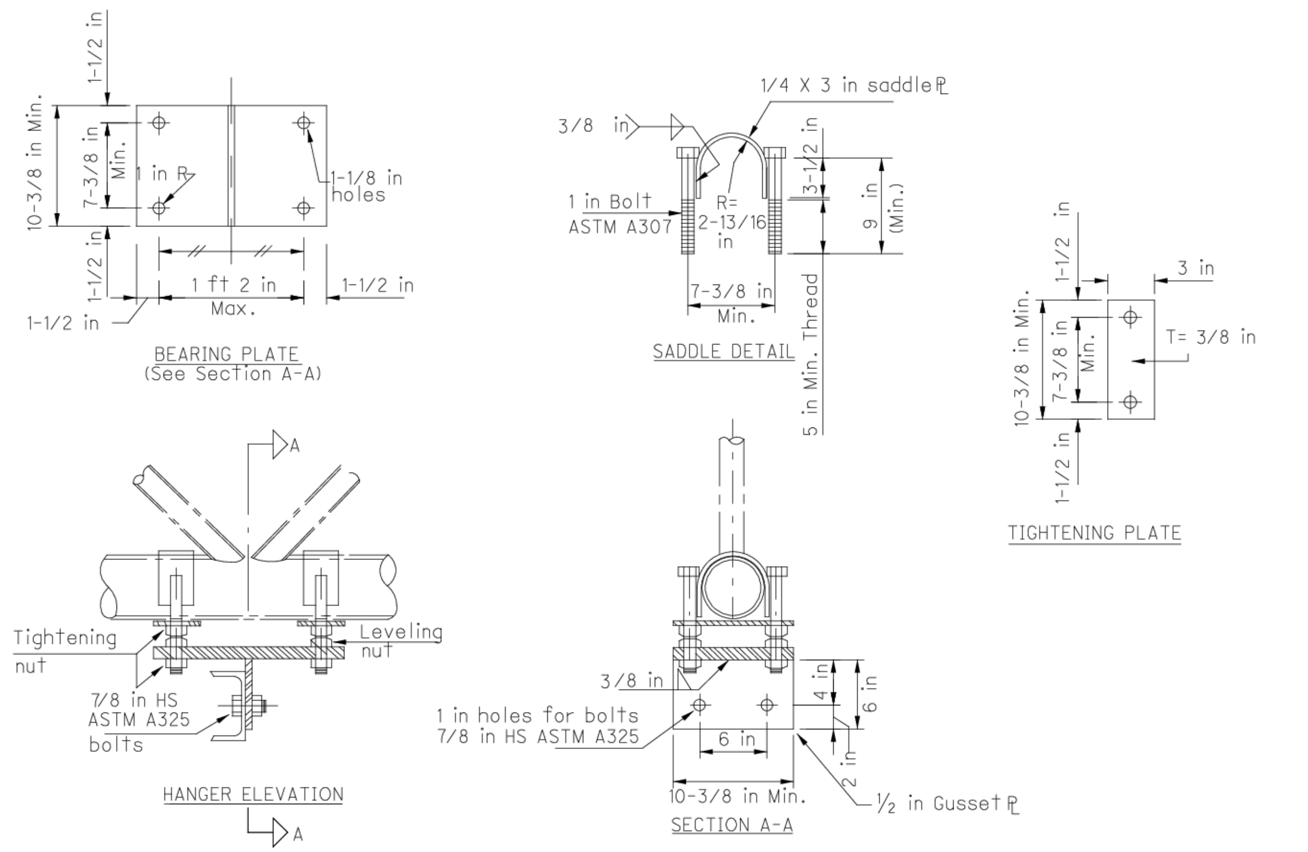
PLAN INSERT SHEET

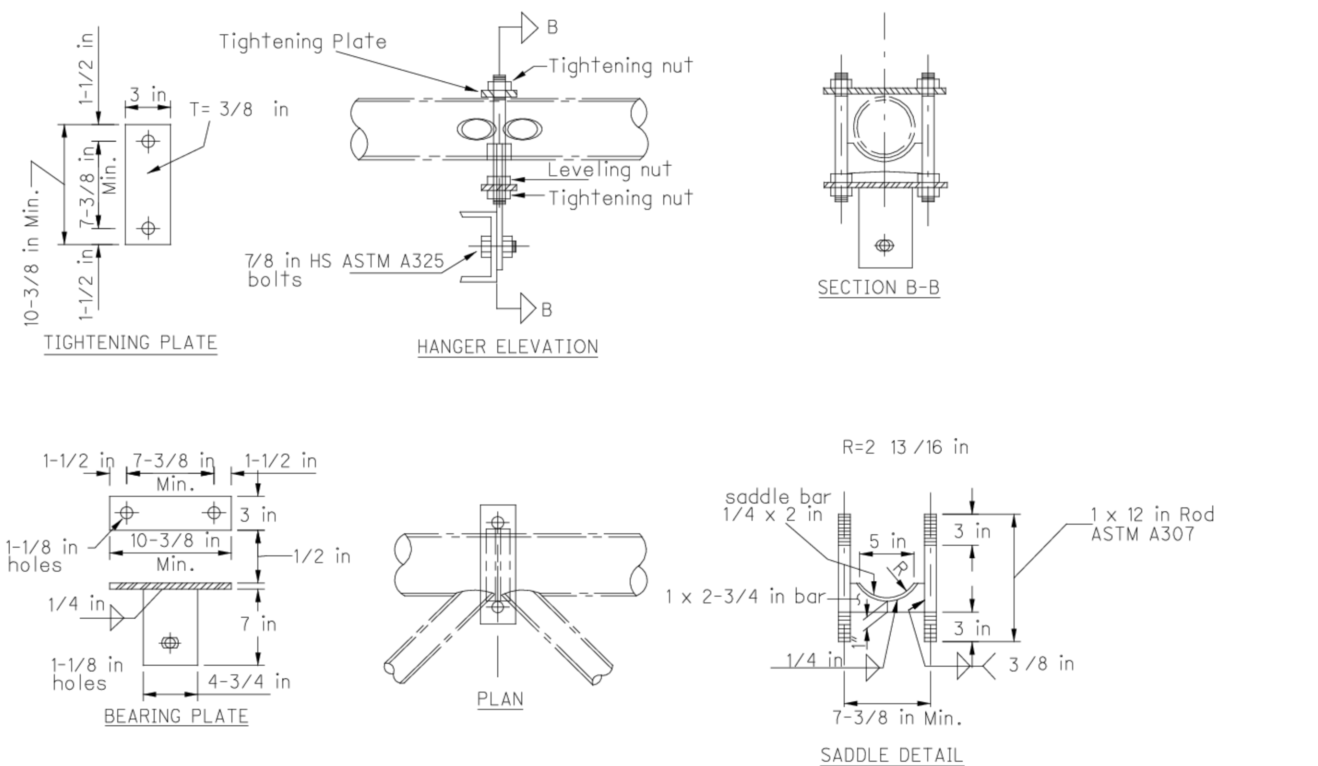
DYNAMIC MESSAGE SIGN TRUSS CATWALK

VAR-Dayton Springfield Freeway Management System

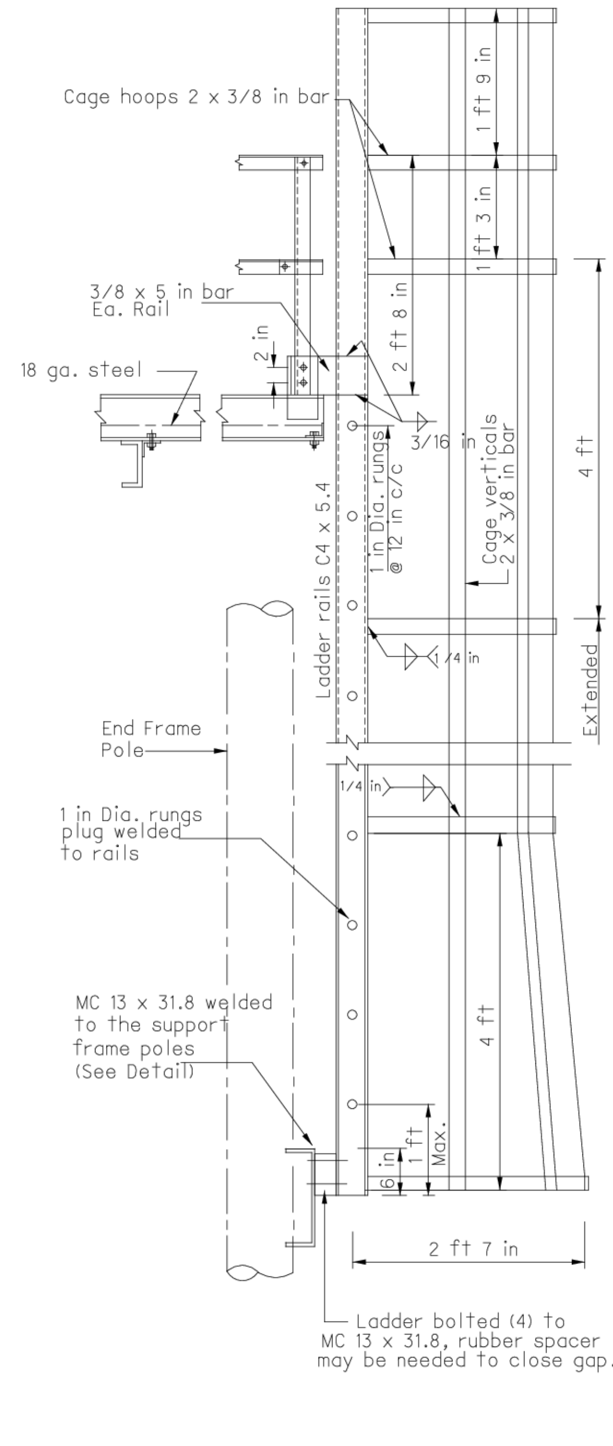
2 / 3



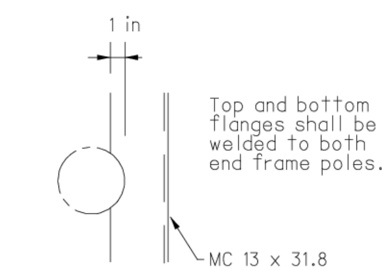
FRONT HANGER DETAIL



REAR HANGER DETAIL



CAGED LADDER VIEW M-M



WELD DETAIL

NOTES:

1. Saddle bars shown on details shall be bent hot.
2. Isolate aluminum from galvanized steel and use SS bolts/nuts at aluminum/steel connections.
3. Contact between aluminum and galvanized parts shall be prevented with a 1/16 inch (minimum) chloroprene gasket or approved substitute.

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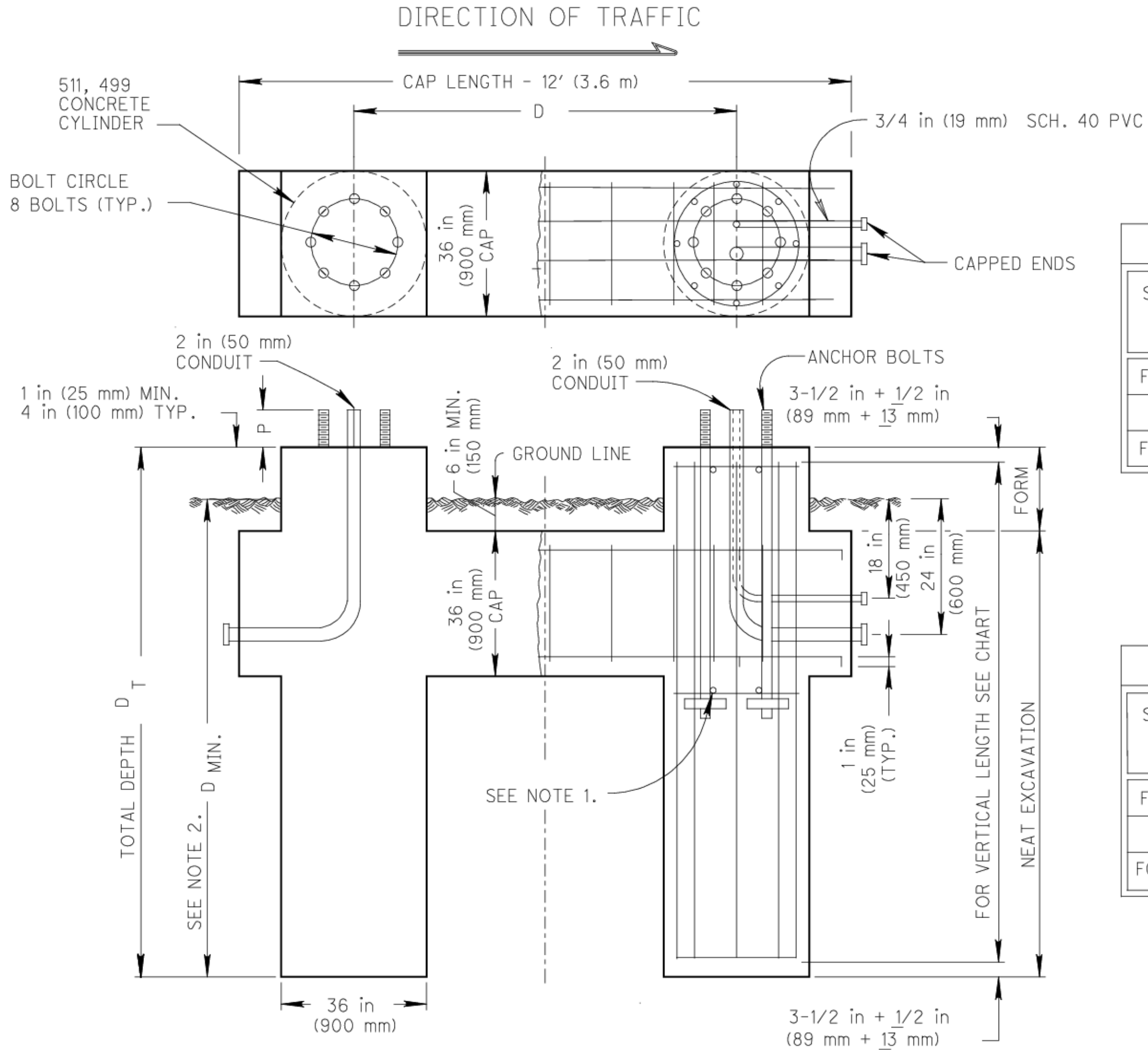
DESIGNED | REVIEWED LAM | REVISION DATE 07/16/07 | CHECKED

PID NUMBER 202400

PLAN INSERT SHEET

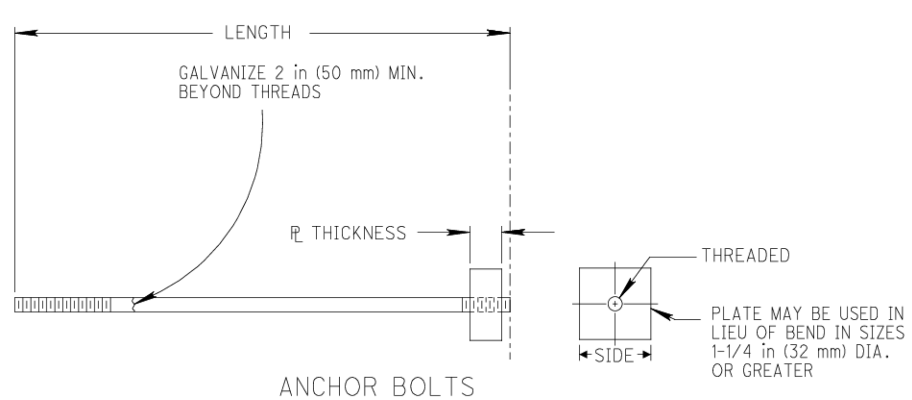
DYNAMIC MESSAGE SIGN TRUSS CATWALK

VAR-Dayton Springfield Freeway Management System



(RIGHT HAND SHOWN - LEFT HAND OPPOSITE)

CAP REINFORCEMENT FOR ALL CAPS				
	NUMBER OF BARS	SIZE BARS	SPACING TOP BARS	LENGTH TOP BARS
TOP LONGITUDINAL	4	8	10″	11.25
BOTTOM LONGITUDINAL	4	8	10″	11.25
STIRRUPS	14	4	12″ c/c	-



ANCHOR BOLTS

ALL DIMENSIONS IN INCHES UNLESS OTHERWISE NOTED

SUPPORT TYPE	TRUSS BOX SIZE	D	D MIN.	ANCHOR BOLTS							
				CIRCLE	DIA.	LENGTH	THREAD LENGTH	P	℞ THICK	℞ SIDE	THREADS PER INCH
F0-06-80	5ft-0in	7ft-6in	21ft-6in	22	1-1/2	60	9	5	1-1/2	4	6
F0-06-150	5ft-0in	7ft-6in	28ft-6in	22	1-1/2	60	9	5	1-1/2	4	6

ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED

SUPPORT TYPE	TRUSS BOX SIZE	D	D MIN.	ANCHOR BOLTS							
				CIRCLE	DIA.	LENGTH	THREAD LENGTH	P	℞ THICK	℞ SIDE	THREADS PER mm
F0-06-80	1.52 m	2.29 m	6.55 m	550	38	1.52 m	229	127	38	102	4.2
F0-06-150	1.52 m	2.29 m	8.69 m	550	38	1.52 m	229	127	38	102	4.2

FOUNDATION REINFORCEMENT SCHEDULE

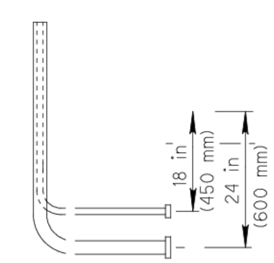
SUPPORT TYPE	NUMBER VERTICAL BARS	SIZE VERTICAL BARS	LENGTH VERTICAL BARS	SPACING VERTICAL BARS	# TIES	SIZE TIES	SPACING TIES	SPECIAL NOTE
F0-06-80	10	#6	21 FT	9.5″	22	#4	12″ c/c MAX	
F0-06-150	10	#6	28 FT	9.5″	29	#4		

FOUNDATION REINFORCEMENT SCHEDULE (METRIC)

SUPPORT TYPE	NUMBER VERTICAL BARS	SIZE VERTICAL BARS	LENGTH VERTICAL BARS	SPACING VERTICAL BARS	# TIES	SIZE TIES	SPACING TIES	SPECIAL NOTE
F0-06-80	10	#6	6.3 m	20 mm	22	#4	25 mm c/c MAX	
F0-06-150	10	#6	8.4 m	20 mm	29	#4	25 mm c/c MAX	

NOTES

1. Tie anchor bolts to rebar cage near the top and bottom of the anchor bolts.
2. D MIN. may be deeper as required in the plans.
3. When required by local conditions and aoorived by the Engineer, alternate foundation designs are acceptable.
4. Provide all anchor bolts with standard steel hex nuts, leveling nuts, and plain washers. The nuts shall be capable of developing the full strength of the anchor bolts.
5. At locations where the existing slope is 6:1 or greater, the buried depth of foundation shall apply to the low side of the slope. Set the top of the foundation 2 in (50 mm) above the existing surface on the high side of the slope. The additional depth of foundation necessary to meet these requirements shall be added to the formed top.



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DESIGNED | REVIEWED | REVISION DATE | CHECKED | PID NUMBER

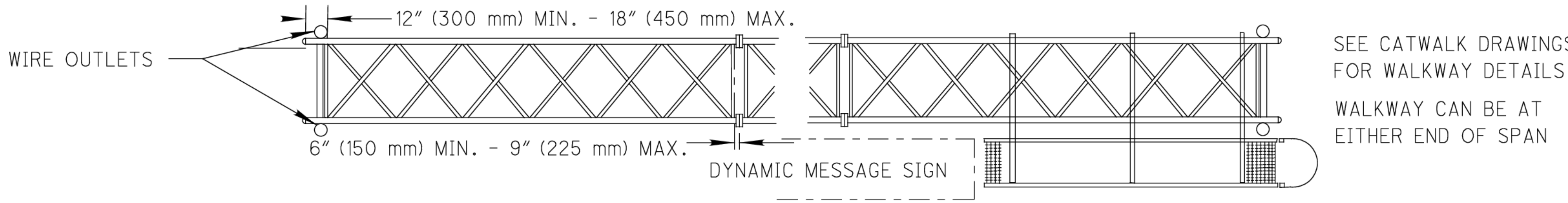
PLAN INSERT SHEET

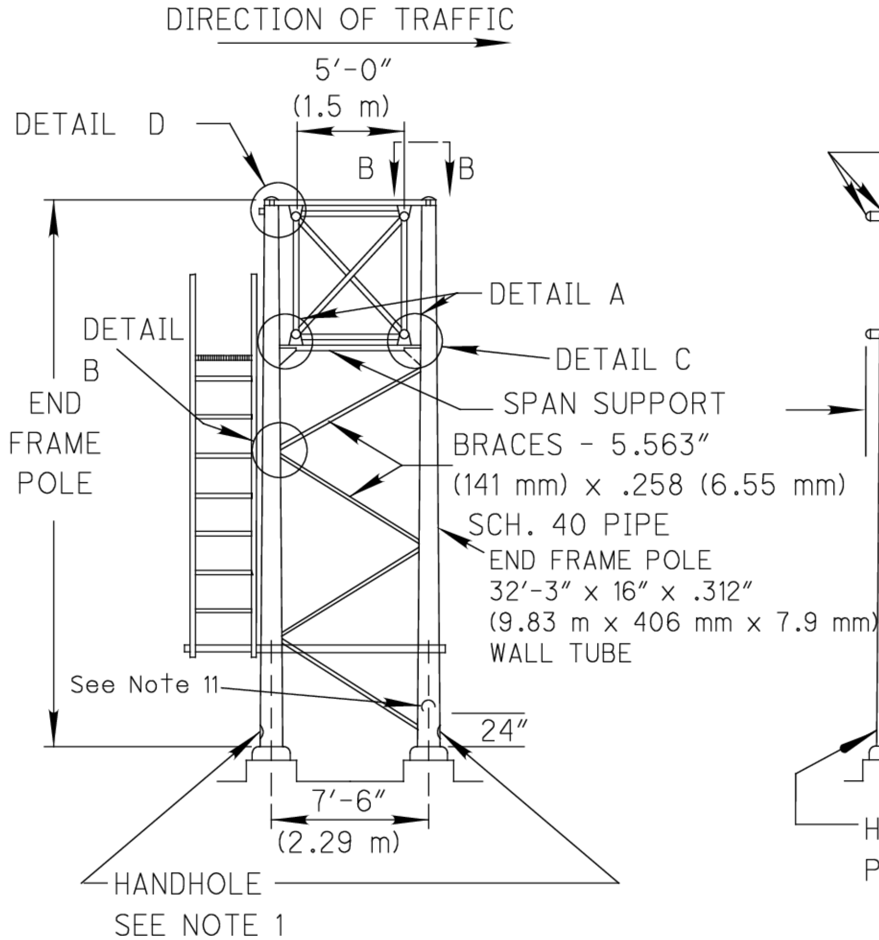
DYNAMIC MESSAGE SIGN TRUSS FOUNDATION - ROW

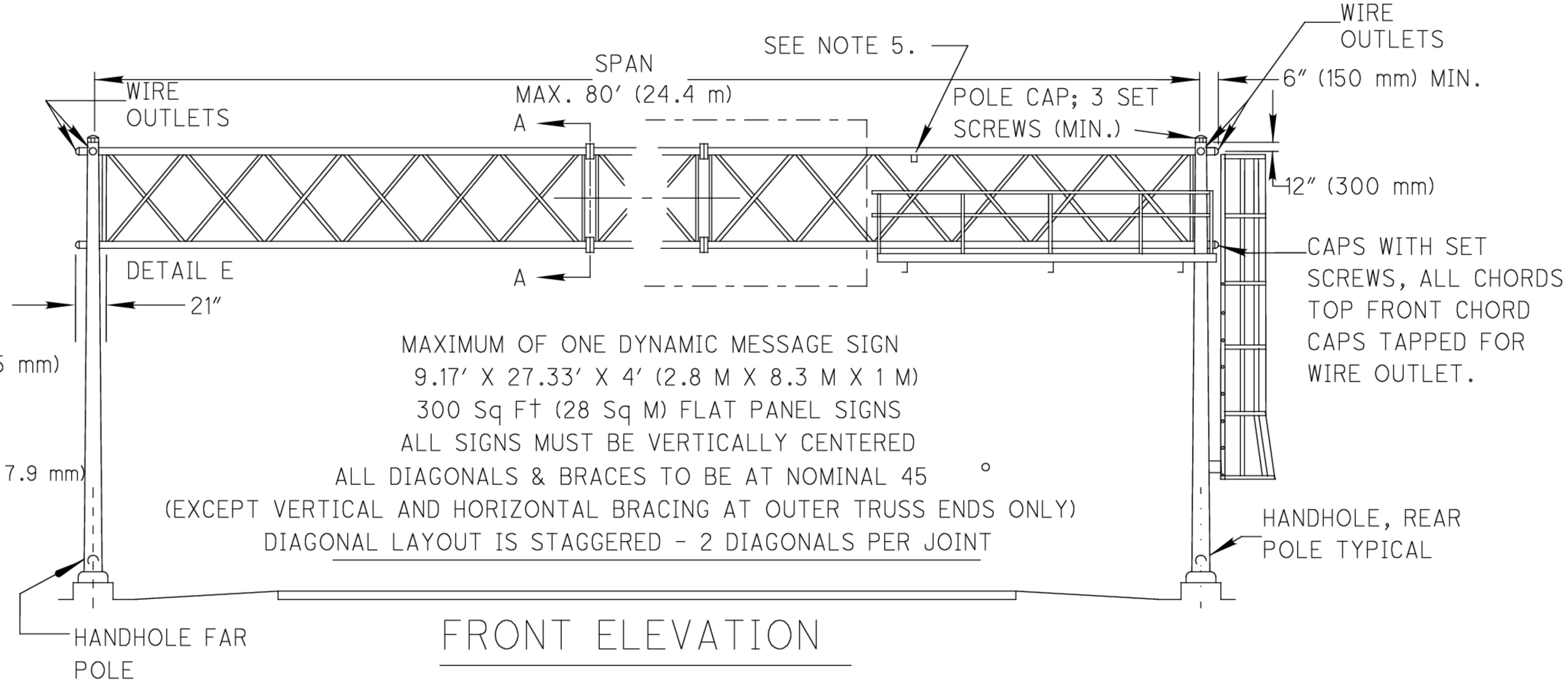
VAR-Dayton Springfield Freeway Management System

1/1

LAM







FRONT ELEVATION

NOTES

1. For sign attachment assemblies to be furnished with this support, constuction details and location of handhole details, see drawings TC-22.10 and TC-22.20.
2. For foundation details, see applicable foundation drawings.
3. One internal diagonal is required at each end of each section.
4. Weld one threaded steel 2" (50 mm) pipe coupling or short nipple to the outside of each end frame pole as shown in detail D. Remove all sharp edges inside the pole and pipe coupling.
5. Weld one threaded steel 2" (50 mm) pipe coupling or short nipple to the front top chord of the truss approximately 12" (300 mm) outboard of the first sign bracket for each sign. Remove all sharp edges inside the chord and pipe coupling.
6. Camber the truss a minimum of 1" (25 mm) for a span of 50' (15.2 m) or less. Increase the camber 1/4" (6.4 mm) for each 5' (1.5 m) of span over 50' (15.2 m).
7. Internal diagonals only may be relocated from the indicated position to avoid weld joint overlap.
8. Provide a removable galvanized cast iron plug for all unused couplings and wire outlets.
9. Steel shall be 35 ksi minimum.
10. These structures conform to the AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals, 4th Edition, 2001, Interim 2003 and to the Structural Welding Code of the American Welding Society, 2006 Edition. Any variation from the specified design or maximum loadings must be evaluated and approved by ODOT and a registered Professional Engineer.
11. Weld one threaded steel 2" (50 mm) pipe coupling or short nipple to the outside of each end frame pole. Remove all sharp edges inside the pole and pipe coupling.
12. Use variable panel spacing on truss

OFFICE OF TRAFFIC ENGINEERING

DESIGNED | REVIEWED

REVISION DATE 1-28-10 | CHECKED

PID NUMBER

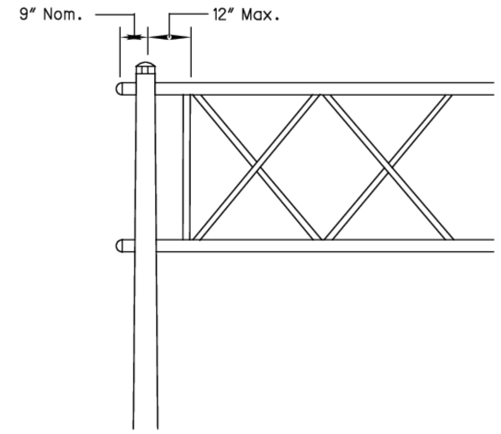
PLAN INSERT SHEET

DMS TRUSS SUPPORT - MAX. 80'

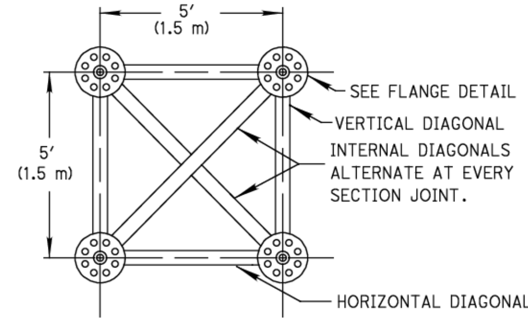
VAR-Dayton Springfield Freeway Management System

1/2

JAM



CORD STUB LENGTH
DETAIL E



SECTION A-A

NOTES

1. For sign attachment assemblies to be furnished with this support, construction details and location of handholes and switch enclosure mounting brackets, see drawings TC-22.10 AND TC-22.20.
2. For foundation details, see concrete barrier median truss sign support and truss row sign support foundation drawings
3. One internal diagonal is required at each end of each section.
4. Weld one threaded steel 1-1/4" (32 mm) pipe coupling or short nipple to the outside of each end frame pole as shown in detail D. Remove all sharp edges inside the pole and pipe coupling.
5. Weld one threaded steel 1-1/4" (32 mm) pipe coupling or short nipple to the front top chord of the truss approximately 12" (300 mm) outboard of the first sign bracket for each sign. Remove all sharp edges inside the chord and pipe coupling.
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8. Provide a removable galvanized cast iron plug for all unused couplings and wire outlets.
9. Steel shall be 35 ksi minimum.
10. These structures conform to the AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals, 4th Edition, 2001, Interim 2003 and to the Structural Welding Code of the American Welding Society, 2006 Edition. Any variation from the specified design or maximum loadings must be evaluated and approved by ODOT and a registered Professional Engineer.
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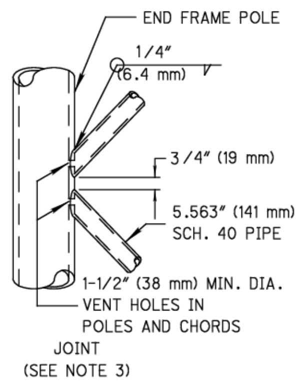
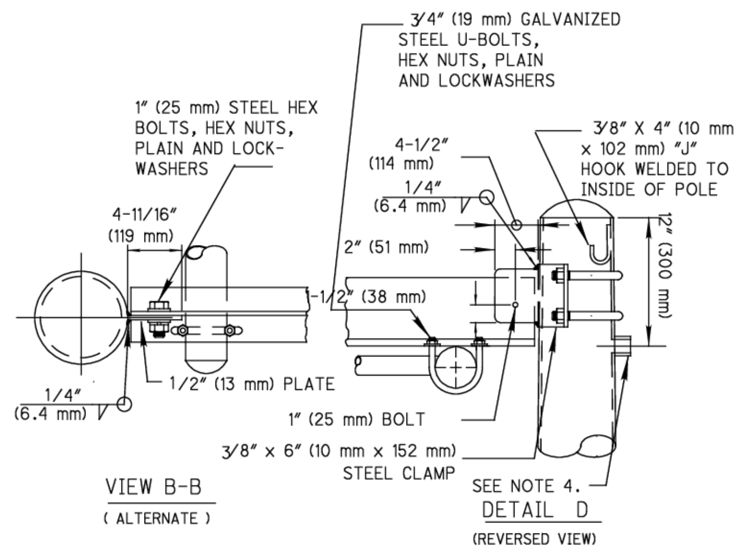
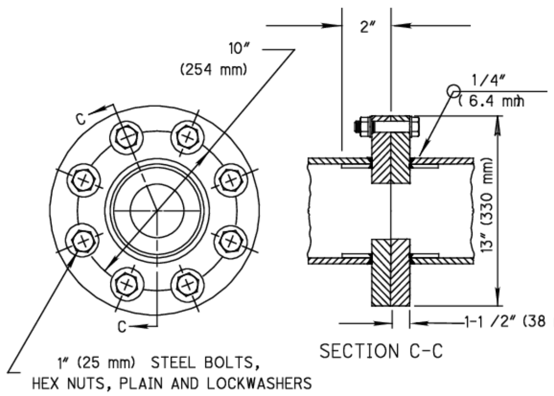
12. Use variable panel spacing on truss.



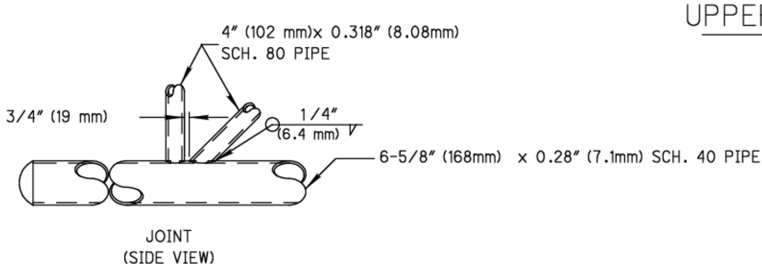
END FRAME AND TRUSS END JOINT DETAILS
DETAIL B



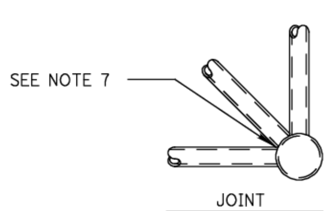
UPPER SPAN SUPPORT



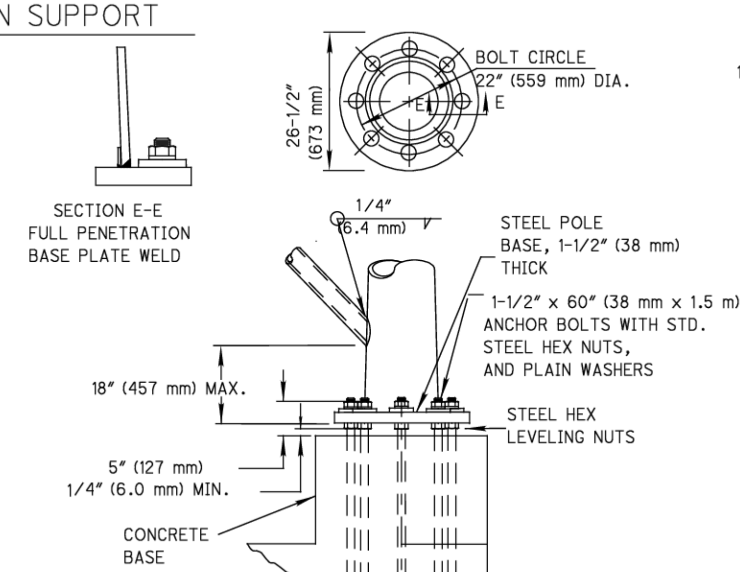
FLANGE DETAIL



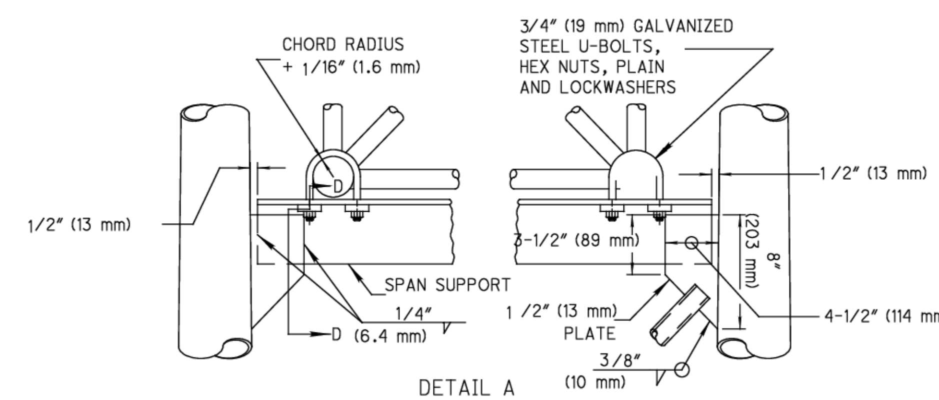
(DOTTED LINES OF HORIZONTAL MEMBERS OMITTED FOR CLARITY)



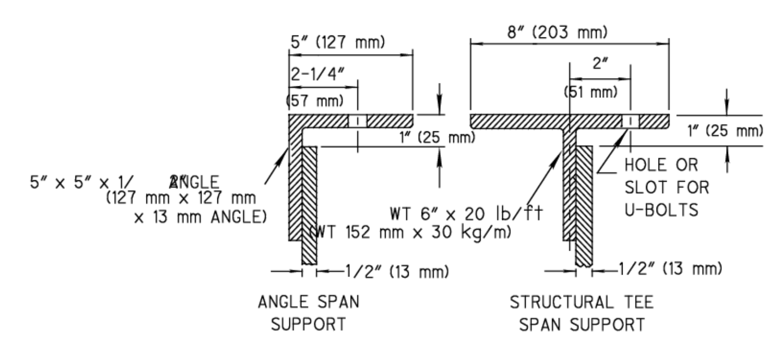
TRUSS END JOINT DETAILS
DETAIL C



POLE BASE DETAIL



LOWER SPAN SUPPORT



SECTION D-D

OFFICE OF TRAFFIC ENGINEERING

DESIGNED | REVIEWED | REVISION DATE | CHECKED | PID NUMBER

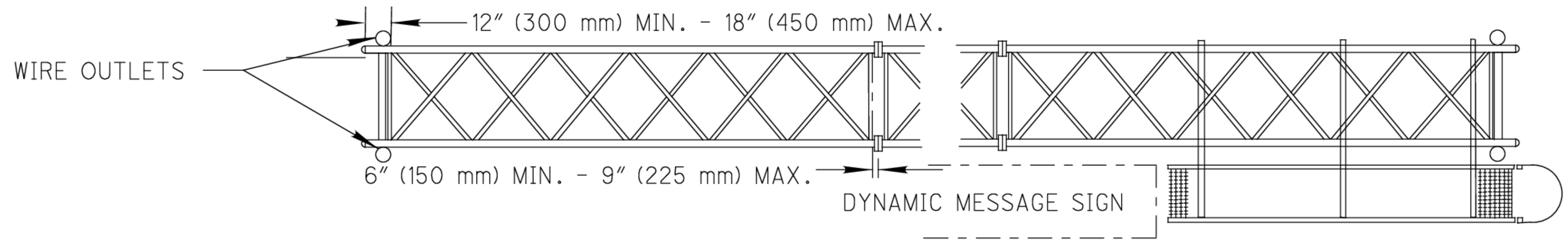
PLAN INSERT SHEET

DMS TRUSS SUPPORT - MAX. 80'

VAR-Dayton Springfield Freeway Management System

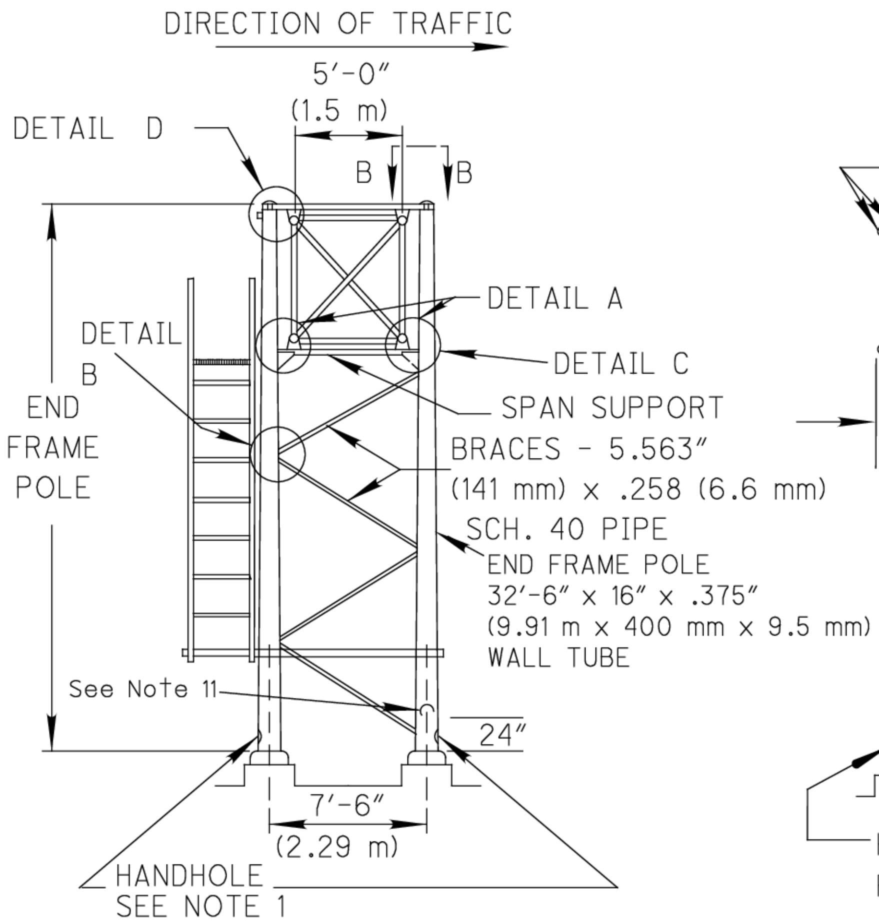
2 / 2

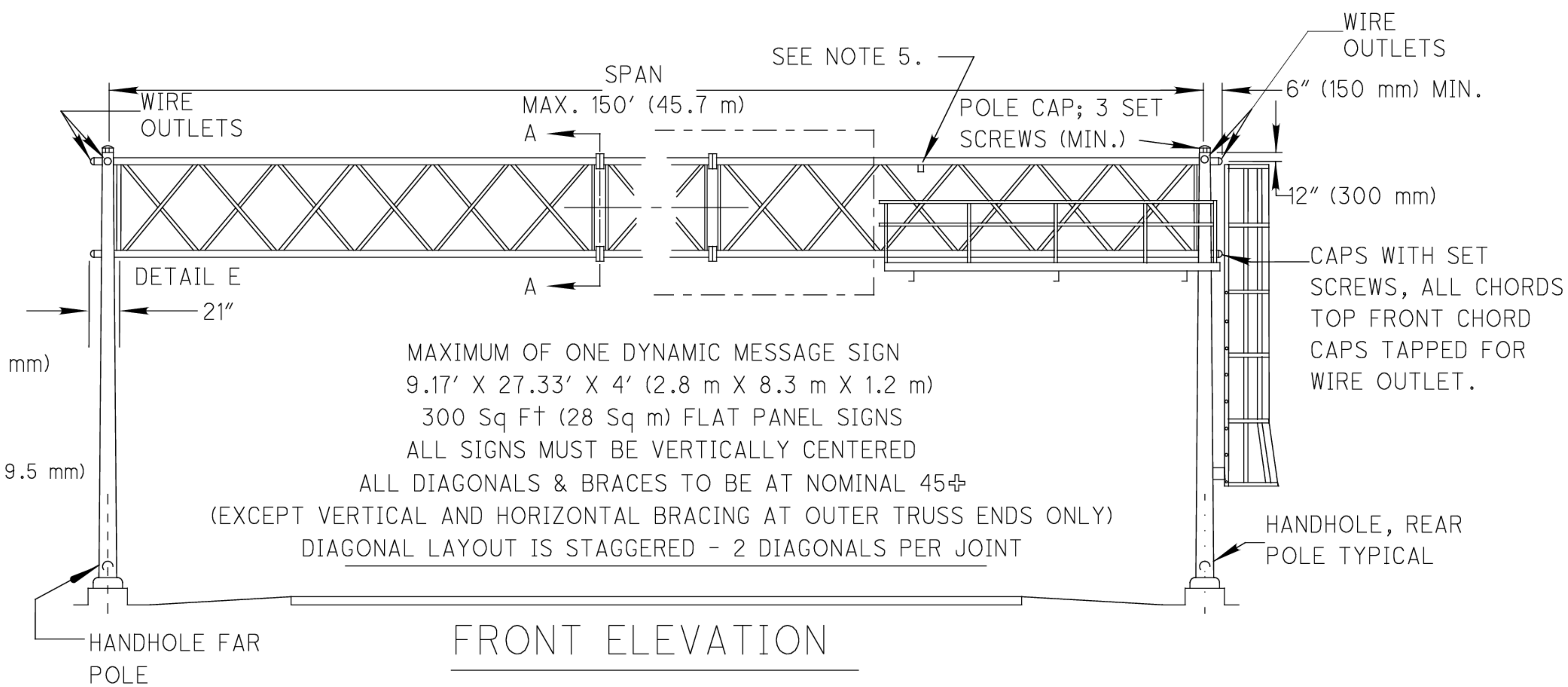
JAM



SEE CATWALK DRAWINGs FOR WALKWAY DETAILS

WALKWAY CAN BE AT EITHER END OF SPAN





FRONT ELEVATION

NOTES

1. For sign attachment assemblies to be furnished with this support, construction details and location of handhole details, see drawings TC-22.10 AND TC-22.20.
2. For foundation details, see applicable foundation drawings.
3. One internal diagonal is required at each end of each section.
4. Weld one threaded steel 2" (50 mm) pipe coupling or short nipple to the outside of each end frame pole as shown in detail D. Remove all sharp edges inside the pole and pipe coupling.
5. Weld one threaded steel 2" (50 mm) pipe coupling or short nipple to the front top chord of the truss approximately 12" (300 mm) outboard of the first sign bracket for each sign. Remove all sharp edges inside the chord and pipe coupling.
6. Camber the truss a minimum of 1" (25 mm) for a span of 50' (15.2 m) or less. Increase the camber 1/4" (6.4 mm) for each 5' (1.5 m) of span over 50' (15.2 m).
7. Internal diagonals only may be relocated from the indicated position to avoid weld joint overlap.
8. Provide a removable galvanized cast iron plug for all unused couplings and wire outlets.
9. Steel shall be 35 ksi minimum.
10. These structures conform to the AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals, 4th Edition, 2001, Interim 2006 and to the Structural Welding Code of the American Welding Society, 2006 Edition. Any variation from the specified design or maximum loadings must be evaluated and approved by ODOT and a registered Professional Engineer.
11. Weld one threaded steel 2" (50 mm) pipe coupling or short nipple to the outside of each end frame pole. Remove all sharp edges inside the pole and pipe coupling.
12. Use variable panel spacing on truss

OFFICE OF TRAFFIC ENGINEERING

DESIGNED | REVIEWED | REVISION DATE 1-28-10 | CHECKED | PID NUMBER

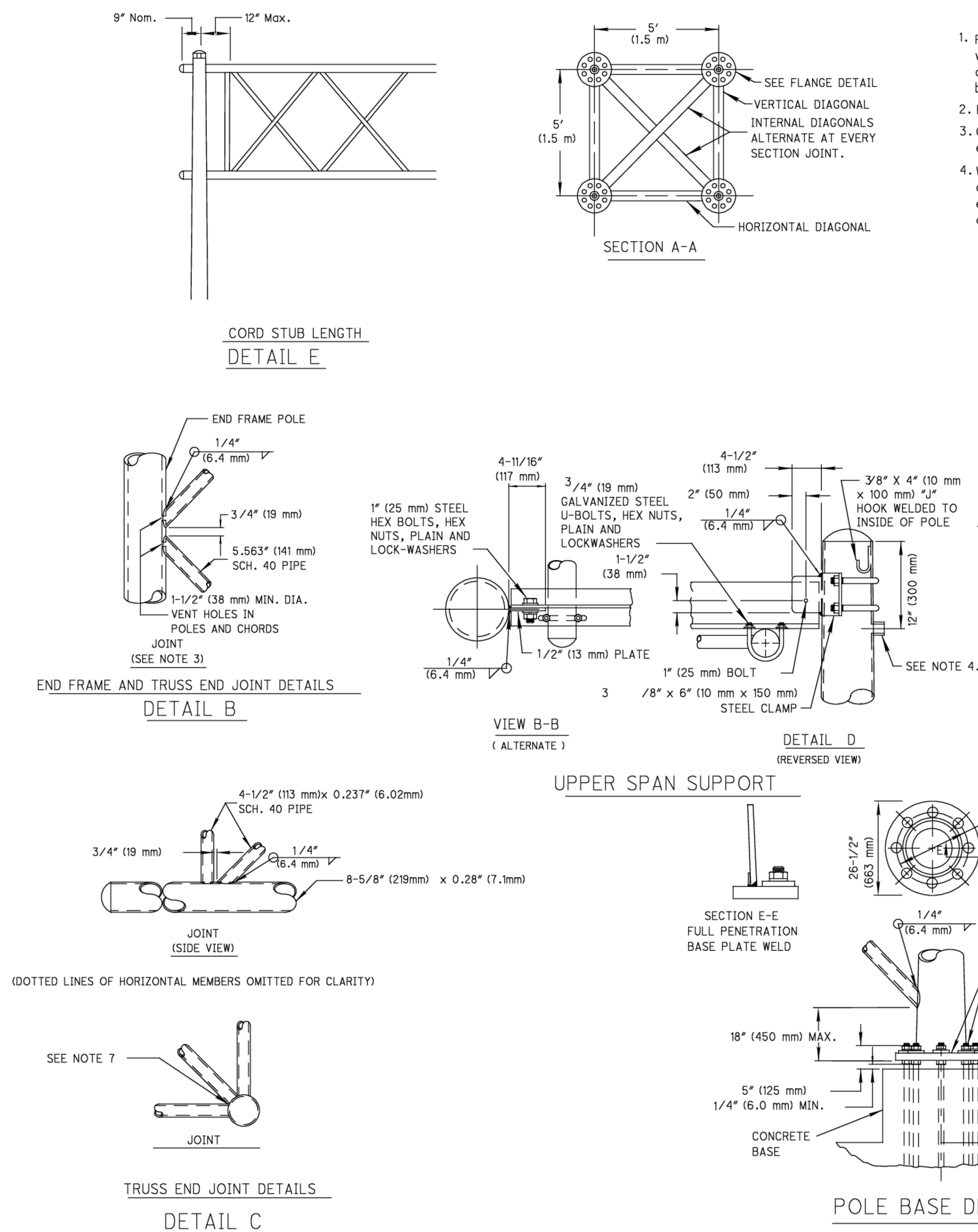
PLAN INSERT SHEET

DMS TRUSS SUPPORT - 81' TO MAX. 150'

VAR-Dayton Springfield Freeway Management System

1/2

JAM



NOTES

1. For sign attachment assemblies to be furnished with this support, construction details and location of handholes and switch enclosure mounting brackets, see drawings TC-22.10 AND TC-22.20.
2. For foundation details, see drawing FO-06-Fou.
3. One internal diagonal is required at each end of each section.
4. Weld one threaded steel 1-1/4" (32 mm) pipe coupling or short nipple to the outside of each end frame pole as shown in detail D. Remove all sharp edges inside the pole and pipe coupling.
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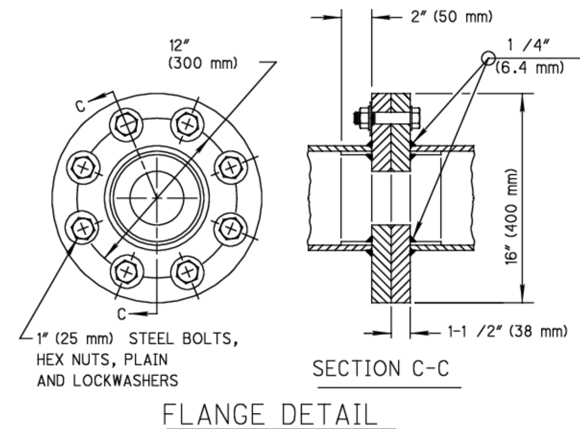
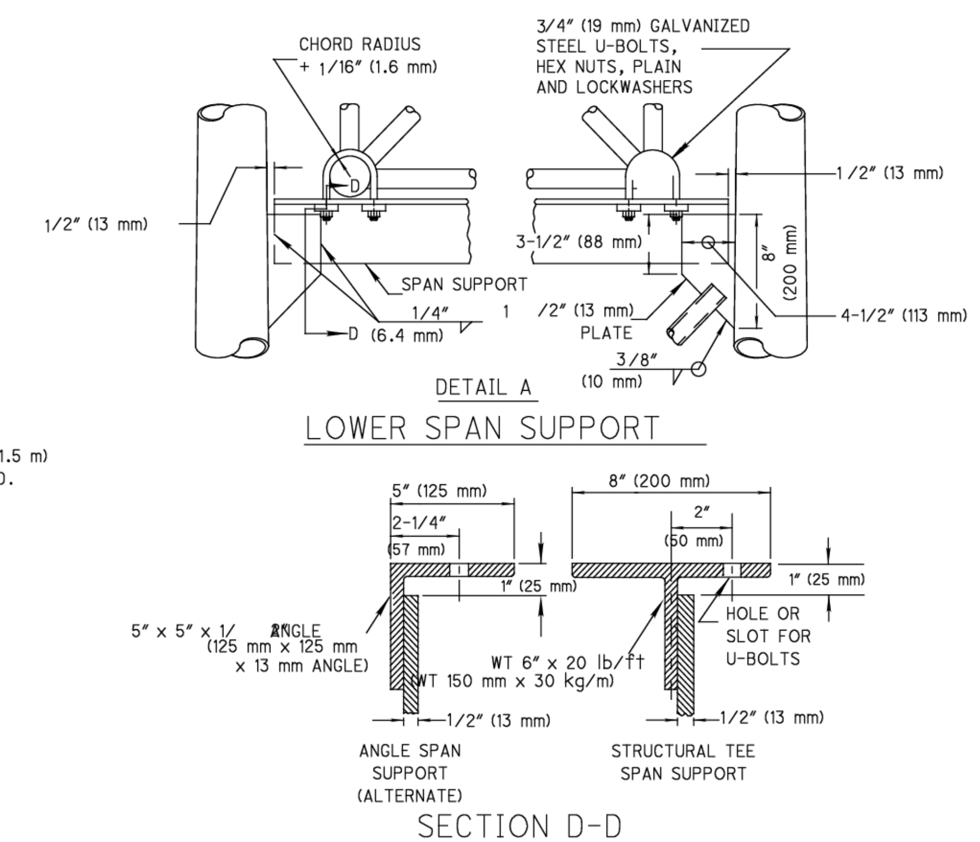
11. Weld one threaded steel 2" (50 mm) pipe coupling or short nipple to the outside of each end frame pole. Remove all sharp edges inside the pole and pipe coupling.
12. Use variable panel spacing on truss.





OFFICE OF TRAFFIC ENGINEERING

DESIGNED | REVIEWED | REVISION DATE | CHECKED | PID NUMBER

PLAN INSERT SHEET

DMS TRUSS SUPPORT - 81' TO MAX. 150'

VAR-Dayton Springfield Freeway Management System

2/2

JAM

GENERAL

ITEMS INDICATED "AS PER PLAN" ARE AS SPECIFIED IN THESE PLANS OR IN THE SPECIAL PROVISIONS. SEE SPECIAL PROVISIONS FOR ADDITIONAL PROJECT NOTES.

SPECIAL PROVISION NOTES

BELOW IS A LIST OF ITEMS FOR WHICH THE DESCRIPTIONS OF WORK CAN BE FOUND IN THE SPECIAL PROVISIONS PROVIDED WITH THIS PLAN SET.

SP 3.1 ITEM 202E98100: REMOVAL, MISC.: TRANSFORMER AND EQUIPMENT STAND REMOVED
SP 3.2 ITEM 202E98200: REMOVAL, MISC.: AERIAL DISTRIBUTION CABLE REMOVED
SP 3.3 ITEM 606E98000: GUARDRAIL MISC.: GUARDRAIL REMOVED AND REPLACED
SP 3.4 ITEM 607E98000: FENCE MISC.: FENCE REMOVED AND REPLACED
SP 3.5 ITEM 625E23308: DISTRIBUTION CABLE MISC.: NO. 8 AWG 5000 VOLT
SP 3.6 ITEM 625E23308: DISTRIBUTION CABLE MISC.: AERIAL CABLE WITH FOUR NO. 8 AWG 5000 VOLT CABLES
SP 3.7 ITEM: 625E29700, TRENCH, MISC.; REMOVE AND REPLACE CLASS C ROCK
SP 3.8 ITEM 625E98000: LIGHTING, MISC.: REUSE OF EXISTING POWER SERVICE
SP 3.9 ITEM 625E98000: LIGHTING, MISC.: REUSE OF ELECTRICAL CIRCUIT
SP 3.10 ITEM 630E70080: OVERHEAD SIGN SUPPORT FOUNDATION, DMS TRUSS
SP 3.11 ITEM 630E97800: SIGNING, MISC.: WIRE MESH FOR DMS TRUSS CATWALK
SP 3.12 ITEM 630E80225: SIGN, OVERHEAD EXTRUSHEET, AS PER PLAN
SP 3.13 ITEM 631E97700: SIGN LIGHTING, MISC.: DISCONNECT SWITCH, 60A
SP 3.14 ITEM 631E97700: SIGN LIGHTING, MISC.: REMOVAL OF ELECTRIC DISCONNECT SWITCH AND REERECTION
SP 3.15 ITEM 631E97700: SIGN LIGHTING, MISC.: REMOVAL OF ELECTRIC DISCONNECT SWITCH AND STORAGE
SP 3.16 ITEM 631E97700: SIGN LIGHTING, MISC.: REMOVAL OF DYNAMIC MESSAGE SIGN CONTROLLER AND REERECTION
SP 3.17 ITEM 631E97700: SIGN LIGHTING, MISC.: DYNAMIC MESSAGE SIGN
SP 3.18 ITEM 631E97900: SIGN LIGHTING, MISC.: DYNAMIC MESSAGE SIGN CATEGORY FIVE CABLE
SP 3.19 ITEM 632E62810: INTERCONNECT CABLE, MISC.: INNERDUCT, 1"
SP 3.20 ITEM 632E62820: INTERCONNECT MISC.: HIGHWAY ADVISORY RADIO
SP 3.21 ITEM 632E62820: INTERCONNECT MISC.: REMOVAL OF HIGHWAY ADVISORY RADIO ASSEMBLY AND REERECTION
SP 3.22 ITEM 632E90400: SIGNALIZATION MISC.: CCTV IP-CAMERA SYSTEM, CISCO VSOM 4.2 COMPATIBLE, UNPRESSURIZED
SP 3.23 ITEM 632E90400: SIGNALIZATION, MISC.: FOUNDATION TEST HOLE
SP 3.24 ITEM 632E90400: SIGNALIZATION MISC.: CCTV POLE, TYPE A (70 FT), WITH LOWERING DEVICE
SP 3.25 ITEM 632E90400: SIGNALIZATION MISC.: CCTV POLE, TYPE B (80 FT), WITH LOWERING DEVICE
SP 3.26 ITEM 632E90400: SIGNALIZATION MISC.: CONCRETE POLE, HAR SUPPORT.
SP 3.27 ITEM 632E90400: SIGNALIZATION MISC.: VEHICLE DETECTION UNIT
SP 3.28 ITEM 632E90400: SIGNALIZATION MISC.: DEVICE WORK PAD, TYPE A
SP 3.29 ITEM 632E90400: SIGNALIZATION MISC.: DEVICE WORK PAD, TYPE B
SP 3.30 ITEM 632E90400: SIGNALIZATION MISC.: DEVICE WORK PAD, TYPE C
SP 3.31 ITEM 632E90400: SIGNALIZATION MISC.: DEVICE WORK PAD, TYPE D (SLOPED AREA DESIGN)
SP 3.32 ITEM 632E90400: SIGNALIZATION MISC.: TRANSFORMER, GENERAL PURPOSE, 7.5KVA, NON-VENTILATED TYPE
SP 3.33 ITEM 633E99000 CONTROLLER ITEM, MISC.: FIELD EQUIPMENT CABINET, ITS CABINET
SP 3.34 ITEM 804E98000: FIBER OPTIC CABLE, MISC.: FIBER OPTIC CABLE, 12 PAIR
SP 3.35 ITEM 625E98000: LIGHTING, MISC.: GENERATOR

LIMITED ACCESS

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE OHIO REVISED CODE.

UTILITY NOTE

UTILITIES TO BE CONTACTED WITH REGARD TO POSSIBLE CONFLICT WITH WORK HEREIN ARE LISTED IN THE SPECIAL PROVISIONS SECTION 2.37-2.39. CONTRACTOR SHALL CONTACT THE OHIO UTILITIES PROTECTION SERVICE (OUPS) AND ANY NON-MEMBERS OF OUPS AT LEAST TWO WORKING DAYS BEFORE DIGGING. CONTRACTOR SHALL MAKE EVERY EFFORT TO MAINTAIN A 15' CLEARANCE FROM ALL EXISTING UTILITIES. IF THIS CLEARANCE IS NOT POSSIBLE, THE CONTRACTOR MUST RECEIVE APPROVAL FROM THE DISTRICT CONSTRUCTION ENGINEER FOR PLACEMENT OF THE DEVICE.

SURVEY NOTE

ELEVATIONS ARE BASED ON STATE PLANE GRID, OHIO SOUTHERN NAD 83.

ACCURACY OF COMMON HAND-HELD GPS DEVICES IS INADEQUATE FOR LAYOUT OF PROPOSED FIELD EQUIPMENT.

NONCONFORMANCE TO SPECIFICATIONS

FAULTS IN THE DESIGN OR FABRICATION OF THE MATERIALS AND EQUIPMENT SUPPLIED, ERRORS IN CONSTRUCTION, OR MISTAKES OR OMISSIONS IN THE SOFTWARE OR ANY INABILITY OF THE HARDWARE AND SOFTWARE SUPPLIED TO PERFORM NORMAL TRAFFIC SIGNAL CONTROL FUNCTIONS OR SPECIFIC FUNCTIONS ENUMERATED IN THE SPECIFICATION CATALOGUE CUTS, OR THE SYSTEM SOFTWARE USERS MANUAL (IF REQUIRED) ARE ALL CONSIDERED TO BE NONCONFORMANCE TO THE SPECIFICATION.

NONCONFORMANCE TO THE SPECIFICATION WILL NOT BE CONSIDERED TO INCLUDE ROUTINELY EXPECTED FAILURES SUCH AS LAMP BURN OUTS, PAVEMENT FAILURES AFFECTING EQUIPMENT, DAMAGE DUE TO VEHICULAR ACCIDENTS, LIGHTNING AND WEATHER RELATED INCIDENTS, NOR WOULD IT INCLUDE RANDOM EQUIPMENT FAILURES EXCEPT WHEN A PATTERN OF FAILURES IN A PARTICULAR TYPE OF EQUIPMENT OR ELEMENT IS EVIDENT.

IN THE EVENT OF A NONCONFORMANCE TO THE SPECIFICATION IS DISCOVERED AND CALLED TO THE CONTRACTOR'S ATTENTION PRIOR TO COMMENCEMENT OF THE PERFORMANCE TEST, THE TEST SHALL NOT BE STARTED UNTIL THE NONCONFORMANCES ARE REMEDIED TO THE SATISFACTION OF THE ENGINEER.

THE CONTRACTOR SHALL KEEP A LOG OF ALL FAILURES AND NONCONFORMANCES TO THE SPECIFICATION WHICH OCCUR DURING THE LIFE OF THE PROJECT. THIS LOG SHALL INCLUDE DESCRIPTION, TYPE OF MATERIAL OR EQUIPMENT INVOLVED, SERIAL NUMBER OF THE EQUIPMENT, LOCATION, EXPLANATION OF HOW FAULT WAS ISOLATED, CORRECTIVE STEPS TAKEN AND DATES OF FAILURE AND REPAIRS. THE LOG SHALL BE AVAILABLE FOR INSPECTION BY THE DISTRICT CONSTRUCTION ENGINEER. IT SHALL BE TURNED OVER TO THE OHIO DEPARTMENT OF TRANSPORTATION UPON COMPLETION OF THE PERFORMANCE TEST.

COORDINATION WITH OTHER PROJECTS

THE CONTRACTOR SHALL BE REQUIRED TO COORDINATE THE WORK WITH OTHER ONGOING PROJECTS TO INCLUDE BUT NOT LIMITED TO THE FOLLOWING PROJECTS.

PID	PROJECT DESCRIPTION	TYPE OF WORK	SALE DATE OR CURRENT
87509	CLA-70-0.51	MINOR REHABILITATION	CURRENT
84664	CLA-70-13.98	PRESERVATION - MAJOR REHABILITATION	CURRENT
88031	CLA-70/68	HIGHWAY LIGHTING REPLACEMENT	6-2012
75316	CLA-70/675-0.51/0.00	MINOR REHABILITATION	7-2012
75927	MOT-75-13.11	MAJOR RECONSTRUCTION	CURRENT
77245	MOT-75-11.01	MAJOR RECONSTRUCTION	CURRENT
23828	MOT-75-14.60	MAJOR RECONSTRUCTION/NEW INTERCHANGE	CURRENT
87367	MOT-75-15.52	BRIDGE REPAIR	CURRENT
82249	MOT-75-17.29	BRIDGE REPAIR	10-2010
77248	MOT-75-6.36	MAJOR CONSTRUCTION/NEW INTERCHANGE	12-2010
25010	MOT-75-0.00	MINOR REBAHIBILITATION/MINOR BRIDGE REPAIR	1-2011
85104	MOT-75-16.83	BRIDGE REPAIR	10-2011
76667	MOT-70-11.04	MAJOR REHABILITATION	4-2012
77247	MOT-75-12.00	MAJOR RECONSTRUCTION	10-2012
10754	WAR-75-3.40	MAJOR RECONSTRUCTION	CURRENT
86583	MOT-675-2.99	BRIDGE REPAIR	3-2011
86653	GRE-675-1034/1311	BRIDGE REPAIR	CURRENT
24957	GRE-675/35 - 1026-09	REHAB INTERCHANGE	CURRENT
83902	MOT-35-18.70	MINOR REHABILITATION	CURRENT
75863	MOT-35-18.57	MAJOR WIDENING	1-2012
85367	MOT-35-19.59	MAJOR REHABILITATION/BRIDGE REPAIR	4-2012
80277	MOT-35-18.18/19.10	NOISE BARRIER CONSTRUCTION	1-2013
82453	MOT-35-9.66	MINOR REHABILITATION	4-2013
87868	MIA/MOT-75/70, 675	CONSTRUCT MEDIAN CABLE BARRIER	CURRENT
84494	CLA/MOT-675/68/35	GUIDE SIGN REMOVAL AND REPLACEMENT	CURRENT
83719	MOT-GUIDE SIGN REPLACEMENT	GUIDE SIGN REMOVAL AND REPLACEMENT	CURRENT
87931	CLA-70/334, MOT-675	GUIDE SIGN REMOVAL AND REPLACEMENT	1-2011
86312	MOT-835-0.00	MAJOR REHABILITATION	CURRENT

CONSTRUCTION INITIATION

THE CONTRACTOR SHALL ADVISE THE DISTRICT PUBLIC INFORMATION OFFICE AT 937-497-6770 (DENISE.HEITKAMP@DOT.STATE.OH.US) AND THE PROJECT MANAGER AT 937-497-6753 (AMY.SCHMIDT@DOT.STATE.OH.US), FOURTEEN (14) DAYS PRIOR TO THE START OF CONSTRUCTION ACTIVITIES. THE CONTRACTOR WILL IMMEDIATELY INFORM THE DISTRICT PUBLIC INFORMATION OFFICE AND THE PROJECT MANAGER OF ANY AND ALL DELAYS AND/OR CHANGES REGARDING THE CONSTRUCTION PROJECT. THE PROJECT ENGINEER WILL PROVIDE CLARIFICATION FOR ANY QUESTIONS ABOUT THIS NOTIFICATION REQUIREMENT.

EROSION PROTECTION

THIS WORK CONSISTS OF FURNISHING, PLACING, AND MAINTAINING SLOPE, DITCH, AND VEGETATED SWALE EROSION PROTECTION. THIS WORK IS CONSIDERED INCIDENTAL TO WORK ITEMS.

CLEARING AND GRUBBING

ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, A LUMP SUM QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY, ITEM 201E11000, CLEARING AND GRUBBING. ALL PROVISIONS AS SET FORTH IN SECTION 201 OF THE OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIALS SPECIFICATIONS SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR THIS ITEM. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT EACH LOCATION AND IDENTIFY THE WORK REQUIRED IN CONJUNCTION WITH THE DISTRICT CONSTRUCTION ENGINEER.

CLEARING AND GRUBBING IS ANTICIPATED AT, BUT IS NOT LIMITED TO, THE FOLLOWING LOCATIONS:

SITE #11 - CLA-70-47.85 (IR-70 AND SR-4)
SITE #19 - MOT-75-41.02 (IR-75 AND AUSTIN PIKE)
SITE #23 - MOT-75-47.54 (IR-75 AND EAST DIXIE DR.)
SITE #26 - MOT-75-52.69 (IR-75 AND US-35)
SITE #29 - MOT-75-54.87 (IR-75 AND SR-4)
SITE #40 - MOT-675-4.76 (IR-675 AND SR-48)
SITE #41 - GRE-675-7.79 (IR-675 AND WILMINGTON PIKE)
SITE #43 - GRE-675-11.41 (IR-675 AND SHAKERTOWN RD.)
SITE #45 - GRE-675-15.70 (IR-675 AND COL. GLENN HWY./SKYLINE DR.)
SITE #48 - MOT-35-12.83 (US-35 AND GETTYSBURG AVE.)

FMS EQUIPMENT NOTES

1) DMS, DMS CONTROL CABLE, AND DMS CONTROLLER SHALL BE PAID FOR UNDER ITEM 631 SIGN LIGHTING MISC.: DYNAMIC MESSAGE SIGN. SEE SPECIAL PROVISIONS, SECTION 3.17.

2) CABLE FOR WIRELESS RADIO COMMUNICATION SHALL BE PAID UNDER ITEM 632: INTERCONNECT, MISC.: WIRELESS RADIO SYSTEM, INSTALLATION ONLY. SEE SPECIAL PROVISIONS, SECTION 3.23.

3) CCTV CAMERA DRIVER AND CCTV CONTROL CABLE SHALL BE PAID UNDER ITEM 632 SIGNALIZATION, MISC.: CCTV CAMERA ASSEMBLY. SEE SPECIAL PROVISIONS, SECTION 3.25.

4) IN ALL CONDUIT INSTALLED ON THIS PROJECT, PULL ROPE AND PLUGS SHALL BE PLACED BY THE CONTRACTOR IN ALL UNUSED CONDUIT IMMEDIATELY UPON INSTALLATION. THIS WORK WILL BE INCIDENTAL TO THE VARIOUS PAY ITEMS.

5) ALL ITS FIELD EQUIPMENT CABINETS WILL BE KEYED TO THE SAME MASTER KEY. THE CONTRACTOR SHOULD COORDINATE WITH ODOT TO OBTAIN THE APPROPRIATE MASTER KEY.

6) DEVICE WORK PADS SIZE SHALL BE SIZED AS INDICATED IN THE SITE PLANS. SEE DETAILS, SHEETS 9-10 AND SPECIAL PROVISIONS, SECTION 3.31-3.34.

7) ALL DMS SIGNS SHALL BE POSITIONED SO THAT THE MAXIMUM VIEWING ANGLE IS 1500 FEET PRIOR TO THE LOCATION OF THE SIGN. ANCHOR BOLTS FOR THE SIGN WILL BE POSITIONED SO THAT THE SIGN IS PERPENDICULAR TO THE ROADWAY CENTERLINE.

8) CONTRACTOR SHALL USE ELECTRONIC SURVEY METHODS FOR LOCATING ALL DEVICES. ODOT WILL REVIEW THE PLACEMENT OF ALL EQUIPMENT IN THE FIELD BEFORE BEGINNING WORK.

9) CONTRACTOR SHALL ENSURE ALL EQUIPMENT IS GROUNDED IN ACCORDANCE WITH THE MANUFACTURERS' SPECIFICATIONS.

FOUNDATIONS/SUPPORT LOCATIONS

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY AND RESOLVE POTENTIAL CONFLICTS WITH EXISTING UTILITIES NOT SHOWN IN THESE PLANS PRIOR TO CONSTRUCTION. WORK MAY BEGIN ONLY AFTER THE CONTRACTOR HAS ASSURED THE ENGINEER THAT ALL EXISTING UTILITIES ARE CLEAR. DUE TO THE POSSIBILITY OF CONFLICT WITH EXISTING OR PROPOSED UNDERGROUND OBSTRUCTIONS (INCLUDING THE POSSIBILITY OF UNRECORDED OBSTRUCTIONS) WHICH COULD AFFECT THE LOCATION OF THE FOUNDATIONS/POLES, AND CONSEQUENTLY, THE DESIGN OF THE VARIOUS SUPPORTS, AND/OR ARMS, THE CONTRACTOR SHALL NOT PLACE FINAL ORDERS FOR THESE ITEMS UNTIL THE FOUNDATION /SUPPORT LOCATIONS AND/OR SPAN LENGTHS HAVE BEEN FIELD VERIFIED AND HE HAS RECEIVED, FROM THE DISTRICT CONSTRUCTION ENGINEER, WRITTEN NOTICE TO PROCEED WITH THE ORDERS FOR THESE ITEMS. LOCATING ADJACENT UTILITIES (LINE AND ELEVATION) IS INCIDENTAL TO THE DEVICE PAY ITEM.

IF ANY FOUNDATION/POLE LOCATIONS MUST BE ADJUSTED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER, WHO WILL DETERMINE THE REVISED LOCATIONS AND IF ANY SUPPORT DESIGN CHANGES ARE NECESSARY, IN CONSULTATION WITH DISTRICT 7. THE CONTRACTOR WILL NOT BE RESPONSIBLE FOR DETERMINING THE REVISED DESIGN. THE ENGINEER WILL SUBSEQUENTLY INFORM THE CONTRACTOR OF ANY CHANGES NECESSARY, AND AUTHORIZE HIM TO ORDER THE SUPPORTS.

THE CONTRACTOR SHALL, WHEN DEVELOPING HIS PROGRESS SCHEDULE, AND THOSE OF HIS SUBCONTRACTORS, ENSURE THAT THE FOUNDATIONS/POLE LOCATIONS ARE INSTALLED/REVIEWED AT THE EARLIEST TIME AS IS FEASIBLE AND PRACTICAL, AND SHALL INCLUDE SUFFICIENT TIME FOR THE ORDERING, MANUFACTURING, DELIVERY, AND INSTALLATION OF THESE ITEMS AFTER THE LOCATIONS ARE VERIFIED.

NO PAYMENTS FOR DELIVERED MATERIALS FOR THESE ITEMS WILL BE MADE UNTIL THE FOUNDATIONS/POLE LOCATIONS ARE VERIFIED, AND IF CHANGES IN THE DESIGN OF THESE ITEMS ARE REQUIRED, NO PAYMENTS WILL BE MADE FOR ITEMS MANUFACTURED TO THE ORIGINAL DESIGNS.

CALCULATED RTM
CHECKED MJH

GENERAL NOTES

VAR-Dayton Springfield Freeway Management System

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CONDUIT RISER (BY SIZE)

RISERS AND WEATHERHEADS SHALL BE INSTALLED UNDER THIS PROJECT ON POLES. PAYMENT FOR THESE ITEMS AND THEIR INSTALLATION, IF NOT QUANTIFIED SEPARATELTY, SHALL FALL UNDER:

625E34001: POWER SERVICE, AS PER PLAN
632E89300: WOOD POLE

PROPOSED CONDUIT PLACEMENT

PLACEMENT OF PROPOSED CONDUIT AND/OR DUCT CABLE SHALL BE A MINIMUM OF 5' BEHIND EXISTING GUARDRAIL. IF THIS CLEARANCE IS NOT POSSIBLE, LOCATION SHALL BE APPROVED BY THE DISTRICT CONSTRUCTION ENGINEER.

ITEM 202E75711: EXISTING CONDUIT CLEANED, AS PER PLAN

IN ADVANCE OF INSTALLING CABLE WITHIN THE EXISTING CONDUIT, THE CONTRACTOR SHALL VERIFY CONTINUITY AND CLEAN THE REQUIRED CONDUIT AS NECESSARY. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE BID PRICES FOR ITEM 202, EXISTING CONDUIT CLEANED, AS PER PLAN. A CONTINGENCY QUANTITY OF 25% OF THE LENGTH OF EXISTING CONDUITS IS USED. IN ALL OTHER CONDUITS PAYMENT SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS PROPOSED CABLES BEING INSTALLED. IN BOTH CASES, THIS WORK SHALL INCLUDE DRESSING EXISTING CONDUIT WITH EXISTING PULL BOXES IN A MANNER THAT CAN BE UTILIZED IN THE FUTURE. IF THE CONTRACTOR LOCATES BROKEN OR MISSING CONDUIT, THE CONTRACTOR WILL BE PAID TO REMOVE AND REPAIR THE BROKEN ITEM FOR THE CONTRACTED BID PRICE. THE CONTRACTOR SHALL PLAN THE WORK IN ADVANCE TO PREVENT ANY DELAY. THE CONTRACTOR WILL NOT BE ALLOWED ANY ADDITIONAL TIME DUE TO REMOVING OR REPLACING THE CONDUIT.

THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR THIS WORK.

EXISTING CONDUIT CLEANED, AS PER PLAN 300 FT.

ITEM 625E25900: CONDUIT, MISC.: EXISTING CONDUIT REPAIR

IN ADVANCE OF INSTALLING CABLE WITHIN THE EXISTING CONDUIT, THE CONTRACTOR SHALL VERIFY CONTINUITY AND REPAIR THE REQUIRED CONDUIT AS NECESSARY. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE BID PRICES FOR ITEM 625, CONDUIT, MISC.: EXISTING CONDUIT REPAIRED. A CONTINGENCY QUANTITY OF 25% OF THE LENGTH OF EXISTING CONDUIT CLEANED, AS PER PLAN IS USED.

THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR THIS WORK.

EXISTING CONDUIT REPAIR 55 FT.

ELECTRICAL NOTE

THE INSTALLATION OF DISTRIBUTION OR DUCT CABLE IN CONDUIT WILL BE INCIDENTAL TO THE PAY ITEM FOR JACKING/BORING CONDUIT. THE INSTALLATION OF DISTRIBUTION OR DUCT CABLE IN TRENCH WILL BE PAID FOR UNDER THE PAY ITEM FOR TRENCHING. THE DISTRIBUTION OR DUCT CABLE MATERIAL WILL PROCURED UNDER THE PAY ITEM FOR DISTRIBUTION OR DUCT CABLE.

A MINIMUM OF 5 FEET SLACK CABLE SHALL BE COILED IN EACH ELECTRICAL PULL BOX. 10 FEET OF CABLE AT ALL TERMINATIONS AND 5 FEET OF CABLE FOR EACH PULL BOX HAS BEEN ACCOUNTED FOR IN THE CABLE QUANTITIES WITH AN ADDITIONAL 35' OF CABLE AT THE POWER SERVICE. NO EXTRA QUANTITY SHALL BE PROVIDED FOR UNDER THE DISTRIBUTION OR DUCT CABLE PAY ITEM. EXTRA CABLE NEEDED WILL BE CONSIDERED INCIDENTAL TO THE NECESSARY EQUIPMENT PAY ITEMS.

ALL TRENCHING FOR ELECTRICAL WORK SHALL BE A MINIMUM OF 24" DEEP. THIS ITEM WILL BE PAID SEPARATELY FROM THE CABLE AS TRENCH, 24" DEEP.

CONDUIT JACKED OR BORED UNDER ROADWAY SHALL BE PERPENDICULAR TO ROADWAY, UNLESS OTHERWISE SHOWN IN THE PLANS. THE CLEARANCE FROM THE FACE TO AN OBSTRUCTION, SUCH AS A UTILITY POLE OR ELECTRICAL SERVICE POLE, SHOULD BE A MINIMUM OF 1.5 FEET. THE MINIMUM CLEAR ZONE FOR HIGHWAYS WILL BE NO LESS THAN 30 FEET OR AS OTHERWISE ALLOWED PER THE LOCATION AND DESIGN MANUAL, VOLUME ONE "ROADWAY DESIGN".

POWER SERVICE

DESCRIPTION: THE ELECTRICAL POWER SERVICE SHALL BE ACCORDING TO THE STATE STANDARDS SPECIFICATION 625.15, 725.19 AND THE STATE STANDARD CONSTRUCTION DRAWING HL-40.10 AND HL-40.20 WITH THE EXCEPTIONS AS NOTED:

ALL ELECTRICAL SERVICES PROVIDED UNDER THIS ITEM SHALL BE METERED UNLESS NOTED OTHERWISE. ALL METER SOCKETS SHALL BE A MANUAL BYPASS METER SOCKET TYPE OR AS REQUIRED BY THE UTILITY. THE ELECTRICAL SERVICE SHALL BE PROVIDED BY THE UTILITY COMPANY AS INDICATED ON THE PLANS, AND SHALL BE CLOSELY COORDINATED WITH THE UTILITY'S REQUIREMENTS.

THE FUSIBLE ELECTRICAL DISCONNECT SWITCH IS TO BE UL LISTED FOR USE AS A SERVICE ENTRANCE WITH A FACTORY INSTALLED NEUTRAL ASSEMBLY. THE SWITCH IS TO BE OF THE HEAVY DUTY TYPE, NEMA 4X, SINGLE THROW, 2-POLE, AND RATED AS INDICATED ON THE PLANS. THE LUGS IN THE DISCONNECT SHALL BE SIZED TO TERMINATE THE CABLE SIZES AS SHOWN ON THE PLANS. THE DISCONNECT SWITCHES SHALL INCLUDE WATERTIGHT HUBS AND SHALL BE CAPABLE OF BEING LOCKED IN BOTH THE OFF AND ON POSITION. PROVIDE TWO PADLOCKS FOR EACH SWITCH. PADLOCKS ARE TO HAVE A BRONZE OR BRASS LOCK KEY AND CORROSION PROTECTED STEEL SHACKLE. KEY ALL PADLOCKS FOR THIS PROJECT ALIKE AND OBTAIN THE APPROPRIATE MASTER KEY NUMBER FROM THE MAINTAINING AGENCY. THE PADLOCKS ARE TO BE PAID FOR AS PART OF THIS ITEM. THE FUSES ARE AS INDICATED ON THE PLANS AND SHALL BE CLASS R FUSES, WITH CLASS R FUSE CLIPS. THE FUSES ARE CONSIDERED INCIDENTAL TO THE POWER SERVICE. EACH DISCONNECT WILL HAVE THE DEVICE NUMBER THAT IT OPERATES ETCHED INTO IT.

THE NON-FUSIBLE ELECTRICAL DISCONNECT SWITCH IS TO BE UL LISTED FOR USE AS A SERVICE ENTRANCE WITH A FACTORY INSTALLED NEUTRAL ASSEMBLY. THE SWITCH IS TO BE OF THE HEAVY DUTY TYPE, NEMA 4X, SINGLE THROW, 2-POLE, AND RATED AS INDICATED ON THE PLANS. THE LUGS IN THE DISCONNECT SHALL BE SIZED TO TERMINATE THE CABLE SIZES AS SHOWN ON THE PLANS. THE DISCONNECT SWITCHES SHALL INCLUDE WATERTIGHT HUBS AND SHALL BE CAPABLE OF BEING LOCKED IN BOTH THE OFF AND ON POSITION. PROVIDE TWO PADLOCKS FOR EACH SWITCH. PADLOCKS ARE TO HAVE A BRONZE OR BRASS LOCK KEY AND CORROSION PROTECTED STEEL SHACKLE. KEY ALL PADLOCKS FOR THIS PROJECT ALIKE AND OBTAIN THE APPROPRIATE MASTER KEY NUMBER FROM THE MAINTAINING AGENCY. THE PADLOCKS ARE TO BE PAID FOR AS PART OF THIS ITEM. EACH DISCONNECT WILL HAVE THE DEVICE NUMBER THAT IT OPERATES ETCHED INTO IT.

POWER SERVICE IS ALSO BEING OBTAINED FROM EXISTING STREET LIGHT CONTROL CENTERS AT SITES #4, #8, #12, #23 AND #45 WITHIN THIS PROJECT. THIS WORK WILL REQUIRE COORDINATION WITH THE LOCAL ELECTRIC UTILITY COMPANY TO DISCONNECT THE MAIN POWER FEED IN THE EVENT THAT A SERVICE DISCONNECT IS NOT LOCATED BEFORE THE ELECTRICAL METER. THE CONTRACTOR SHALL NOTIFY BOTH THE LOCAL ELECTRIC UTILITY AND THE ODOT DISTRICT 7 CONSTRUCTION MANAGER ANYTIME THAT A REQUEST FOR DISCONNECTING THE MAIN POWER FEED IS MADE. THE CONTRACTOR, AFTER ENSURING THAT THE MAIN POWER IS DISCONNECTED, SHALL PULL THE POWER SERVICE CABLES OUT OF THE STREET LIGHT CONTACTOR, ROUTE THEM THROUGH A DUAL SERVICE POINT DISTRIBUTION PANEL AND THEN RECONNECT THEM TO THE STREET LIGHT CONTROLLER. THE DUAL SERVICE POINT DISTRIBUTION PANEL WILL BE WIRED TO ALLOW TURNING OFF THE POWER TO THE ITS DEVICE THAT IT FEEDS, WHILE NOT INTERRUPTING SERVICE TO THE STREET LIGHT CIRCUIT AND ALSO ALLOW TURNING OFF THE STREET LIGHT CIRCUIT WITHOUT INTERRUPTING POWER TO THE ITS DEVICE. THE PANEL ENCLOSURE SHALL BE RATED NEMA 4X AND SIZED APPROPRIATELY FOR THE CONDUCTORS AS SHOWN ON THE PLANS. THE PANEL AND ENCLOSURE SHALL BE SERVICE ENTRANCE RATED. THE PANEL SHALL BE ABLE TO BE LOCKED WITH A PADLOCK. PADLOCKS ARE TO HAVE A BRONZE OR BRASS LOCK KEY AND CORROSION PROTECTED STEEL SHACKLE. KEY ALL PADLOCKS FOR THIS PROJECT ALIKE AND OBTAIN THE APPROPRIATE MASTER KEY NUMBER FROM THE MAINTAINING AGENCY. THE ARE TO BE PAID FOR AS PART OF THIS ITEM. THE SERVICE PANEL SHALL HAVE A 80 AMP MAIN BREAKER WITH TWO 2-POLE, 600V BOLT-ON TYPE BRANCH CIRCUIT BREAKERS DESCRIBED IN THE OVERCURRENT PROTECTIVE DEVICES SECTION OF THE SPECIFICATIONS. THE CIRCUIT BREAKERS SHALL BE SIZED ACCORDING TO PLAN. THIS WORK SHALL BE DONE IN ACCORDANCE WITH THE DETAILS AS SHOWN IN THE PLAN SHEETS FOR POWER SERVICE, AS PER PLAN, TYPE E. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ANY POWER IS RESTORED AND THAT THIS WORK TAKES PLACE DURING DAYLIGHT HOURS TO ENSURE THAT THE STREET LIGHT CIRCUIT IS OPERATIONAL AT NIGHT.

THE PAY ITEM POWER SERVICE DOES NOT REQUIRE THE FURNISHING OR INSTALLATION OF A LIGHTING CONTACTOR, PHOTOELECTRIC CELL, OR HAND-OFF-AUTOMATIC SWITCH FOR CONTROL OF CONTACTOR, OR OVER CURRENT PROTECTION DEVICES FOR LIGHTING CIRCUITS.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CLEAR AND OR TRIM ANY TREES OR BRUSH FOR THE INSTALLATION OF THE POWER SERVICE AND ALL RELATING MATERIALS, INCLUDING THE AERIAL OR UNDERGROUND FEED FROM THE UTILITY POLE TO THE SERVICE POLE. THE TRIMMING AND CLEARING WILL BE DONE AT THE UTILITIES DISCRETION. NO EXTRA PAYMENT WILL BE MADE FOR TREE OR BRUSH CLEARING AND TRIMMING FOR THE INSTALLATION OF POWER SERVICES.

TERMINATIONS, CONNECTIONS, FITTINGS, SWITCHES, DISCONNECTS, PADLOCKS, GROUND RODS, JUNCTION BOXES, WEATHER HEADS, METER SOCKETS, CABLES, CONDUITS DOWN TO FIRST PULL BOX, WOOD POLES, EQUIPMENT STANDS, ALUMINUM CHANNELS, BRACES, AND MOUNTING SURFACES, AND OTHER MISCELLANEOUS ITEMS ETC. SHALL BE INCIDENTAL TO THIS WORK AND NO SEPARATE PAYMENT WILL BE MADE.

METHOD OF MEASUREMENT: THE ITEM WILL BE MEASURED BY THE NUMBER OF THE SERVICE CONNECTIONS THAT ARE FURNISHED, INSTALLED AND APPROVED BY THE DISTRICT CONSTRUCTION ENGINEER.

BASIS OF PAYMENT: THE PAYMENT FOR THE FOLLOWING ITEMS WILL BE MADE FOR THE ACCEPTED NUMBER OF QUANTITIES AT THE CONTRACT UNIT PRICE.

ITEM 625E34001: POWER SERVICE, AS PER PLAN, TYPE A
ITEM 625E34001: POWER SERVICE, AS PER PLAN, TYPE B
ITEM 625E34001: POWER SERVICE, AS PER PLAN, TYPE C
ITEM 625E34001: POWER SERVICE, AS PER PLAN, TYPE D
ITEM 625E34001: POWER SERVICE, AS PER PLAN, TYPE E

SEE ELECTRIC DETAILS FOR MORE INFORMATION, SHEETS 11-14

AIRWAY/HIGHWAY CLEARANCE FOR AIRPORTS AND HELIPORTS

SITES WITHIN THIS PROJECT MAY BE WITHIN THE INFLUENCE AREA OF A PUBLIC USE AIRPORT OR HELIPORT. THE CONTRACTOR IS ADVISED THAT NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT AT MAXIMUM OPERATING HEIGHT SHALL EXCEED THE HEIGHT OF THE PERMANENT POLE (IN PLACE). IF ANY TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT WILL EXCEED THE PERMANENT POLE HEIGHT AT THESE SITES, THE CONTRACTOR IS ADVISED THAT COORDINATION WITH THE FEDERAL AVIATION ADMINISTRATION (FAA) WILL BE NECESSARY PRIOR TO ERECTING SUCH TEMPORARY STRUCTURES OR OPERATING SUCH EQUIPMENT ON THE PROJECT.

THE CONTRACTOR WILL BE REQUIRED TO SUBMIT FORM 7460-1 TO THE FAA. A COPY OF THE SUBMISSION AND TWO COPIES OF FORM 7460-1 SHALL BE FORWARDED TO THE ODOT OFFICE OF AVIATION. THE CONTRACTOR IS ADVISED THAT NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT SHALL EXCEED THE PERMISSIBLE HEIGHT, UNTIL A COPY OF THE FAA APPROVAL AND ODOT OFFICE OF AVIATION PERMIT HAS BEEN FURNISHED TO THE PROJECT ENGINEER.

FAA APPROVAL MAY TAKE UP TO 45 DAYS. ALL SUBMISSIONS SHALL BE DIRECTED TO THESE OFFICES:

EXPRESS PROCESSING CENTER
THE FEDERAL AVIATION ADMINISTRATION
SOUTHWEST REGIONAL OFFICE
AIR TRAFFIC AIRSPACE BRANCH ASW-520
2601 MEACHAN BLVD.
FORT WORTH, TX 76137-4298

OHIO DEPARMENT OF TRANSPORTATION
OFFICE OF AVIATION
2829 WEST DUBLIN-GRANVILLE ROAD
COLUMBUS, OH 43235
614-387-2346

THIS PROJECT HAS BEEN IDENTIFIED AS BEING WITH THE INFLUENCE AREA OF A PRIVATE USE AIRPORT OR HELIPORT. THE CONTRACTOR IS ADVISED THAT NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT AT MAXIMUM OPERATING HEIGHT SHALL EXCEED THE HEIGHT OF THE PERMANENT POLE (IN PLACE). IF ANY TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT WILL EXCEED THIS HEIGHT, COORDINATION WITH THE AIRPORT OWNER WILL BE NECESSARY PRIOR TO ERECTING SUCH TEMPORARY STRUCTURES OR OPERATING SUCH EQUIPMENT ON THE PROJECT. FOR PRIVATE USE AIRPORTS FOR HELIPORTS, COORDINATE WITH THE AIRPORT OWNER. NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT SHALL EXCEED THE PERMISSIBLE HEIGHT, UNTIL COORDINATION IS MET AND DOCUMENTATION HAS BEEN FURNISHED TO THE PROJECT ENGINEER. IF COORDINATION IS NOT OBTAINED, THEN THE PROJECT ENGINEER WILL HAVE THE AUTHORITY TO PROVIDE RESTRICTIONS AS REQUIRED.

KEPES FLYING FIELD
BRUCE R. KEPES
7481 E. NATIONAL RD.
SOUTH CHARLESTON, OH 45368
937-233-2266
SITES: 070037C, 070039D, 070041C

MCGREGOR AIRFIELD
LARRY MCGREGOR
7317 WESTBROOK RD.
BROOKVILLE, OH 45309
513-854-3888
SITES: 070001C, 070003D, 070007C

POWER SERVICE TYPE AND ELECTRICAL DISCONNECT LOCATIONS

THE CONTRACTOR SHALL PROVIDE POWER SERVICE (BY TYPE) AND ELECTRICAL DISCONNECTS TO THE SITES AS NOTED ON THE PLAN SHEETS AND IN THE TABLE BELOW.

SITE	POWER SERVICE TYPE	WITH LOCAL DISCONNECT
1	A	
2	D	X
3	A	X
4	E	X
5	REUSE OF EXISTING POWER CIRCUIT	X
6	A	X
7	C	X
8	E	X
9	C	X
10		X
11	A	
12	E	X
13	C	X
14	A	
15	A	
16	A	X
17	A	X
18		
19	B	X
20	B	X
21	B	
22	A	X
23	E	X
24	B	
25		X
26	REUSE OF EXISTING POWER SERVICE	X
27		
28	A	X
29	B	X
30	A	X
31	A	X
32		X
33	REUSE OF EXISTING POWER SERVICE	X
34	REUSE OF EXISTING POWER SERVICE	X
35	REUSE OF EXISTING POWER SERVICE	X
36	A	X
37		
38	A	
39	A	
40	A	X
41	B	X
42	A	X
43	B	X
44	B	X
45	E	X
46	B	X
47	B	
48	A	X
49	REUSE OF EXISTING POWER SERVICE	
50	REUSE OF EXISTING POWER SERVICE	X
51	A	X
52	A	X
53	A	X
54	B	X
55	A	
56	A	
57	A	

* LOCAL DISCONNECTS ARE SEPARATE PAY ITEM (SIGN LIGHTING, MISC.: DISCONNECT SWITCH, 60A) OR ARE INCLUDED WITH THE LOCAL TRANSFORMER ITEM (SIGNALIZATION, MISC.: TRANSFORMER, GENERAL PURPOSE, 7.5KVA, NON-VENTILATED TYPE)

PUBLIC SAFETY

INSTALL PROPOSED GUARDRAIL PRIOR TO, OR IN CONJUNCTION WITH, THE INSTALLATION OF ANY DEVICES WHICH REQUIRE PROTECTION. NO HAZARD SHALL BE LEFT UNPROTECTED.

THE ENGINEER WILL ORDER WORK STOPPED ON THE PROJECT IF THE CONTRACTOR FAILS TO COMPLY WITH THIS REQUIREMENT. WORK WILL NOT RESUME UNTIL THE VIOLATION IS CORRECTED TO THE SATISFACTION OF THE ENGINEER.

CONNECTION BETWEEN EXISTING AND PROPOSED GUARDRAIL

WHEN IT IS NECESSARY TO SPLICE PROPOSED GUARDRAIL TO EXISTING GUARDRAIL, ONLY THE EXISTING GUARDRAIL SHALL BE CUT, DRILLED, OR PUNCHED. THE CONNECTION SHALL BE MADE USING A "W-BEAM RAIL SPLICE" AS SHOWN IN AASHTO M 180. PAYMENT SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE RESPECTIVE GUARDRAIL ITEMS.

ITEM 606E60010, IMPACT ATTENUATOR, TYPE 1 (BIDIRECTIONAL)

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ANY ONE OF THE FOLLOWING IMPACT ATTENUATORS, OR AN APPROVED EQUAL AS LISTED ON ROADWAY ENGINEERING'S WEB PAGE AT WWW.DOT.STATE.OH.US/DRRC/ UNDER ROADSIDE SAFETY DEVICES FOR APPROVED IMPACT ATTENUATORS:

1) THE C-A-T MANUFACTURED BY TRINITY INDUSTRY,
1170 N. STATE STREET, GIRARD, OHIO 44420 (TELEPHONE: 330-545-4373).

THE LENGTH OF THE C-A-T SYSTEM IS CONSIDERED TO BE 31'-3" [9525 mm] LONG. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AS DETAILED ON THE FOLLOWING PRE-APPROVED SHOP DRAWINGS:

DWG. NO.	DRAWING NAME	DWG./ REV. DATE	ODOT APPROVAL DATE
SS245M	CRASH-CUSHION ATTENUATING TERMINAL PLAN, ELEVATION & SECTIONS FOR USE AS A LONGITUDINAL MEDIAN BARRIER TERMINAL OR CRASH CUSHION ATTENUATOR	4/10/97 REV. 4	3/6/98
SS224M	C-A-T TRANSITION TO MEDIAN BARRIER GUARDRAIL PLAN, ELEVATION & SECTIONS	4/26/96	3/6/98
SS226M	C-A-T TRANSITION TO VERTICAL WALL OR PIER PLAN, ELEVATION & SECTIONS	4/6/96	3/6/98

2) THE BRAKEMASTER MANUFACTURED BY ENERGY ABSORPTION SYSTEMS, INC., ONE EAST WACKER DRIVE, CHICAGO, IL 60601 (TELEPHONE: 312-467-6750).

THE LENGTH OF THE BRAKEMASTER SYSTEM IS CONSIDERED TO BE 32'-8" [9957 mm] LONG. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AS DETAILED ON THE FOLLOWING PRE-APPROVED SHOP DRAWINGS:

DWG. NO.	DRAWING NAME	DWG./ REV. DATE	ODOT APPROVAL DATE
92-00-01	BRAKEMASTER GENERAL ASSEMBLY (UNIDIRECTIONAL SYSTEM)	3/6/97 REV. K	3/6/98
92-00-81	BRAKEMASTER (UNIDIRECTIONAL) WITH FOUNDATION TUBES	2/29/00	3/6/98
92-00-02	BRAKEMASTER GENERAL ASSEMBLY (BIDIRECTIONAL SYSTEM)	4/12/00	3/6/98
92-00-82	BRAKEMASTER (BIDIRECTIONAL) WITH FOUNDATION TUBES	5/22/00	3/6/98
92-02024	ANCHOR ASSEMBLY, FOUNDATION TUB, 6 1/2 FT., BRS	12/11/97	3/6/98

3) THE FLEAT-MT MANUFACTURED BY ROAD SYSTEMS, INC. (RSI), 3616 OLD HOWARD COUNTY AIRPORT ROAD, BIG SPRINGS, TX, 79720 (TELEPHONE: 915-263-2435) AND AVAILABLE FROM RSI'S LIST OF APPROVED DISTRIBUTORS.

THE LENGTH OF THE FLEAT-MT SYSTEM IS CONSIDERED TO BE 37'-6" [11430 mm] LONG. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AS DETAILED ON THE FOLLOWING PREAPPROVED SHOP DRAWINGS AND THE MANUFACTURER'S INSTALLATION MANUAL:

DWG. NO.	DRAWING NAME	DWG./ REV. DATE	ODOT APPROVAL DATE
MEDFLT-W-US	FLARED EMERGENCY ABSORBING TERMINAL - FLEAT-MT ASSEMBLY FOR WOOD BREAKAWAY POST SYSTEM	4/10/02 REV. 5	1/6/03
MEDFLT-S-US	FLARED EMERGENCY ABSORBING TERMINAL - FLEAT-MT ASSEMBLY FOR STEEL BREAKAWAY POST SYSTEM	4/10/02 REV. 6	1/6/03

THE FACE OF THE TYPE 1 IMPACT HEAD SHALL BE COVERED WITH A SHEET OF TYPE G REFLECTIVE SHEETING, PER CMS 730.19, APPROXIMATELY 36" X 12" [915 mm W X 305 mm H] (ONE 9" X 18" [225 mm W X 450 mm H FOR EACH FLEAT-MT IMPACT HEAD). PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 606, IMPACT ATTENUATOR, TYPE 1 (UNIDIRECTIONAL OR BIDIRECTIONAL), EACH, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL IMPACT ATTENUATOR SYSTEM, INCLUDING ALL RELATED TRANSITIONS, HARDWARE, REFLECTIVE SHEETING AND GRADING, NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

ITEM 606E26100, ANCHOR ASSEMBLY, TYPE E

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING EITHER FOLLOWING GUARDRAIL END TERMINALS, OR AN APPROVED EQUAL AS LISTED ON ROADWAY ENGINEERING'S WEB PAGE AT WWW.DOT.STATE.OH/DRRC/ UNDER ROADSIDE SAFETY DEVICES FOR APPROVED GUARDRAIL END TREATMENTS:

1) THE ET-2000 (1997) MANUFACTURED BY TRINITY INDUSTRY, 1170 N. STATE STREET, GIRARD, OHIO, 44420 (TELEPHONE 330-545-4373).

THE LENGTH OF THE ET-2000 (1997) SYSTEM IS CONSIDERED TO BE 50'-0" [15.24 m], INCLUSIVE OF TWO 25'-0" [7.62 m] LONG RAIL ELEMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AS DETAILED ON THE FOLLOWING PRE-APPROVED SHOP DRAWINGS:

DWG. NO.	DRAWING NAME	DWG./ REV. DATE	ODOT APPROVAL DATE
SS142	ET2000 PLUS 50'-0" PLAN, ELEVATION AND SECTION 25'-0" RAIL, SLEEVE W/PL POST 1-4	4/12/00	7/31/00
SS141	ET2000 PLUS PLAN, ELEVATION AND SECTION 25'-0" RAIL, HBA POSTS 1-4	5/22/00	7/31/00
SS158	ET2000 PLUS 50'-0" WITH 12'-6" PANELS & HBA POSTS 1-4 PLAN, ELEVATION AND SECTION	5/22/00	7/31/00
SS330	ET-2000 PLUS 50'-0" WITH FOUR FOUNDATION TUBES AND FOUR CRT POSTS	3/28/06	3/29/06
SS373	ET-2000 PLUS 50'-0" WITH 7 SYT POSTS AND ONE HBA POSTS	1/20/09	1/21/09

2) THE SKT-350 MANUFACTURED BY ROAD SYSTEMS, INC., 2516 MALLORY LANE, STOW, OHIO, 44224, (TELEPHONE: 330-346-0721).

THE LENGTH OF THE SKT-350 SYSTEM IS CONSIDERED TO BE 50'-0" [15.24 m], INCLUSIVE OF FOUR 12'6" [3.81 m] LONG RAIL ELEMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AS DETAILED ON THE FOLLOWING PREAPPROVED SHOP DRAWINGS:

DWG. NO.	DRAWING NAME	DWG./ REV. DATE	ODOT APPROVAL DATE
SKT-4M	SEQUENTIAL KINKING TERMINAL (SKT-350) ASSEMBLY WITH 4 FOUNDATION TUBES	12/11/97	3/6/98
SKT HINGED CRT	SEQUENTIAL KINKING TERMINAL (SKT-350) FOUR POSTS ARE STEEL HINGED AND FIVE POSTS ARE CRT	4/30/06	5/23/06
SKT-SP	SEQUENTIAL KINKING TERMINAL (SKT-350), A SEVEN POST OPTION USING STANDARD STEEL POST	3/30/09	3/4/09

THE FACE OF THE TYPE E IMPACT HEAD SHALL BE COVERED WITH A SHEET OF TYPE G REFLECTIVE SHEETING, PER CMS 730.19, APPROXIMATELY 18" X 18" [450 mm X 450 mm], OR 12" [30 mm] X 18" [450 mm] IF APPLIED TO A RECTANGULAR ET-2000 "PLUS" EXTRUDER HEAD.

REFER TO THE MANUFACTURER'S INSTRUCTION REGARDING THE INSTALLATION OF, AND THE GRADING AROUND, THE FOUNDATION TUBES AND GROUND STRUT. THE TOP OF ANY FOUNDATION TUBE SHOULD BE LESS THAN 4-INCHES [100 mm] ABOVE THE GROUND. THE PLACEMENT OF THE FOUNDATION TUBES SHOULD BE AN APPROPRIATE DEPTH BELOW THE LEVEL LINE IN ORDER TO MAINTAIN THE FINISHED GUARDRAIL HEIGHT OF 27-3/4-INCHES [706 mm] FROM THE EDGE OF THE SHOULDER.

ON-SITE GRADING IS REQUIRED IF THE TOP OF THE FOUNDATION TUBES OR TOP OF THE GROUND STRUT DOES PROJECT MORE THAN 4-INCHES [100 mm] ABOVE THE GROUND LINE.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 606, ANCHOR ASSEMBLY, TYPE E, EACH, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT, AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL ANCHOR ASSEMBLY SYSTEM, INCLUDING ALL RELATED TRANSITIONS, REFLECTIVE SHEETING, HARDWARE, GRADING, EMBANKMENT AND EXCAVATION NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

ITEM 202E42207, ANCHOR ASSEMBLY REMOVED, AS PER PLAN

WHEN IT IS NECESSARY TO REMOVE TYPE E GUARDRAIL, THE CONTRACTOR SHALL ONLY REMOVE THE LAST SECTION (12.5') OF TYPE E GUARDRAIL. THE REMAINING 37.5' OF TYPE E GUARDRAIL SHALL BE USED AS TYPE 5 GUARDRAIL AND SPLICED TO PROPOSED GUARDRAIL. THE PAY ITEM SHALL ONLY INCLUDE REMOVAL OF FINAL SECTION (12.5') OF TYPE E GUARDRAIL.

GENERAL MAINTENANCE OF TRAFFIC

ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR IN ACCORDANCE WITH THE CURRENT EDITION OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR CONSTRUCTION AND MAINTENANCE OPERATIONS (HEREIN AFTER REFERRED TO AS OMUTCD). COPIES OF WHICH ARE AVAILABLE FROM THE OHIO DEPARTMENT OF TRANSPORTATION, BUREAU OF CONTRACT SALES, 1980 WEST BROAD STREET, COLUMBUS, OHIO, 43223. PAYMENT FOR ALL THE ITEMS REQUIRED TO MAINTAIN TRAFFIC SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 614 - MAINTAINING TRAFFIC. CONSTRUCTION OPERATIONS SHALL NOT BEGIN UNTIL ALL TRAFFIC CONTROL PLANS ARE SUBMITTED AND APPROVED BY THE ENGINEER.

ALL TRENCHES SHALL BE BACKFILLED OR SECURELY PLATED DURING NON-WORKING HOURS.

"EXCAVATED AREAS" SHALL BE PROTECTED BY THE USE OF BARRICADES OR PLASTIC DRUMS WITH CAUTION TAPE (PLASTIC FENCE WHERE PEDESTRIANS ARE INVOLVED). "EXCAVATED AREAS" MUST NOT BE LEFT OPEN WITHIN THE CLEAR ZONE DURING NON-WORKING HOURS UNLESS PROTECTED BY GUARDRAIL OR CONCRETE BARRIER. THIS ALSO APPLIES TO OPENINGS IN THE MEDIAN BARRIER.

ACCESS TO ADJOINING PROPERTIES SHALL BE MAINTAINED AT ALL TIMES.

NO MATERIALS OR EQUIPMENT SHALL BE STORED ON ODOT RIGHT-OF-WAY UNLESS IT IS BEHIND GUARDRAIL OR 30-FEET FROM THE EDGE OF PAVEMENT. NO MATERIALS OR EQUIPMENT SHALL BE STORED WITHIN THE RIGHT-OF-WAY WITHOUT WRITTEN PERMISSION FROM ODOT. THE CONTRACTOR SHALL ARRANGE OPERATIONS TO PREVENT ANY INTERFERENCE WITH TRAFFIC FLOWING THROUGH THE WORK ZONE. THE CONTRACTOR IS EXPRESSLY PROHIBITED FROM ENTERING, CROSSING, OR INFRINGING UPON THE REMAINING OPEN LANES ADJACENT TO A LANE CLOSURE. ALL VEHICLES, EQUIPMENT, PERSONNEL, AND ACTIVITIES SHALL BE RESTRICTED TO ONE SIDE OF ANY OPEN LANE OF TRAFFIC UNLESS OTHERWISE APPROVED BY THE DISTRICT CONSTRUCTION ENGINEER.

ALL TRAFFIC CONTROL DEVICES SHALL BE APPROVED FOR CONDITION AND LOCATION BY THE CONSTRUCTION INSPECTOR BEFORE THE CONTRACTOR WILL BE ALLOWED TO BEGIN WORKING. IF THE CONTRACTOR DOES NOT COMPLY WITH THE STANDARDS, HIS PERMIT SHALL BE REVOKED AND ALL WORK SHALL BE TERMINATED.

PRIOR TO THE CLOSURE OF ANY PORTION OF A ROADWAY WITHIN THE JURISDICTION OF THE PROJECT, THE CONTRACTOR SHALL APPLY FOR A PERMIT WITH THE DISTRICT 7 PERMIT OFFICE (937-497-6819 OR 937-497-6849). A COPY OF THESE PLANS AND TIME OF OPERATIONS MUST BE PRESENTED AT THE TIME OF APPLICATION. THE PERMIT APPLICATION WILL THEN BE REVIEWED PRIOR TO A PERMIT BEING ISSUED. A SIGNED COPY OF THIS PERMIT SHALL BE PRESENTED TO THE ENGINEER, AND THE CONTRACTOR'S FOREMAN AND SHALL BE RETAINED ON THE JOB AT ALL TIMES.

FAILURE TO COMPLY WITH THIS PERMIT, INCLUDING WORKING OUTSIDE THE PERMITTED TIME PERIODS AND FAILURE TO INSTALL THE REQUIRED TRAFFIC CONTROL SHALL RESULT IN THE REVOCATION OF THE PERMIT. NO WORK WILL BE ALLOWED IN ANY ODOT RIGHT-OF-WAY WITHOUT A VALID PERMIT.

A TOTAL OF 365 DAYS FOR ITEM 614E18510: PORTABLE CHANGEABLE MESSAGE SIGN, HAS BEEN INCLUDED IN THE PAY ITEMS FOR USE IN MAINTENANCE OF TRAFFIC ACTIVITIES OR WHEN A LANE CLOSURE IS NEEDED. IT IS ANTICIPATED THAT THESE DEVICES WILL NOT BE NEEDED FOR THE ENTIRE DURATION OF THE PROJECT. THE HOURS OF USE SHALL BE DEDUCTED FROM THE TOTAL PROVIDED QUANTITY.

MAINTENANCE OF TRAFFIC

THE CONTRACTOR WILL CONDUCT WORK IN FOUR TYPES OF ROADWAYS. THE FIRST IS A FULL FREEWAY SECTION WITH CENTER BARRIER. THESE ROADWAYS/FREEWAYS ARE HEAVILY CONGESTED WITH NO WORKING AREA IN THE MEDIAN. NO WORK WILL BE ALLOWED IN THIS AREA WITHOUT LANE CLOSURES IN ACCORDANCE WITH THE OMUTCD AND THE PERMITTED LANE CLOSURE SCHEDULE (PLCS). THE MAJORITY OF THESE ROADWAYS ARE LOCATED NEAR THE DOWNTOWN BUSINESS DISTRICT. THE SECOND TYPE OF ROADWAY IS THE DIVIDED HIGHWAY. THESE ROADWAYS/FREEWAYS ARE TYPICALLY TWO TO FOUR LANES IN EACH DIRECTION DIVIDED BY A WIDE GRASSY MEDIAN. THESE AREAS PROVIDE SOME AREAS TO CONDUCT WORK IF THE TRAFFIC CONTROL MEETS THE OMUTCD REQUIREMENTS. THE THIRD TYPE OF ROADWAY WHERE WORK WILL OCCUR IS CITY STREETS WITH AT-GRADE INTERSECTIONS. THE CONTRACTOR WILL COORDINATE WITH CLOSURES WITH ODOT AND THE CITY. THE FINAL TYPE OF ROADWAY IS ACCESS ROADS (I.E. RAMPS, FRONTAGE ROADS, ETC.). THIS ROADWAY WILL REQUIRE EXTREME CAUTION AND TRAFFIC MUST MEET ALL OMUTCD REQUIREMENTS.

MAINTENANCE OF TRAFFIC SCHEME (AT ALL LOCATIONS)

DEVISE A SIMPLE MAINTENANCE OF TRAFFIC SCHEME STAMPED BY A PROFESSIONAL ENGINEER (SCHEME MAY BE A HAND SKETCH). PRESENT THE MAINTENANCE OF TRAFFIC SCHEME TO THE DISTRICT WORK ZONE TRAFFIC CONTROL ENGINEER AND PROJECT ENGINEER FOR ACCEPTANCE AT LEAST TWO WEEKS PRIOR TO IMPLEMENTATION.

THE MAINTENANCE OF TRAFFIC SCHEME MUST PRESENT, IN GENERAL, THE METHODS FOR MAINTAINING TRAFFIC THAT THE CONTRACTOR PROPOSES TO USE FOR CONDUCTING THE REQUIRED WORK IN A SAFE AND EFFICIENT MANNER. FOR ANY STRUCTURE ERECTION ACTIVITIES, THE CRANE FOOTPRINT AND EQUIPMENT STAGING AREA IMMEDIATELY PRIOR TO ERECTION SHALL BE INCLUDED IN THE MAINTENANCE OF TRAFFIC SCHEME FOR EACH SITE.

THE MAINTENANCE OF TRAFFIC SCHEME MUST BE IN CONFORMANCE WITH THE OMUTCD, LATEST REVISION, AND THE REFERENCED STANDARD CONSTRUCTION DRAWINGS, THE ATTACHED MAINTENANCE OF TRAFFIC SHEETS, AND THE SPECIFICATIONS. DO NOT COMMENCE WORK UNTIL THE MAINTENANCE OF TRAFFIC SCHEME IS ACCEPTED BY THE ENGINEER.

IF, DURING THE PROJECT, THE ENGINEER DETERMINES THAT THE ACCEPTED MAINTENANCE OF TRAFFIC PLAN IS NOT PERFORMING AS DESIRED, THE WORK SHALL BE SUSPENDED UNTIL THE PROBLEM IS RESOLVED TO THE SATISFACTION OF THE ENGINEER AND THE MAINTENANCE OF TRAFFIC PLAN IS REVISED ACCORDINGLY. ANY COSTS OR DELAYS INCURRED AS A RESULT OF THE FAILURE OF THE SATISFACTION OF THE ENGINEER WILL BE THE FULL RESPONSIBILITY OF THE CONTRACTOR.

PAYMENT FOR ALL THE ITEMS REQUIRED TO MAINTAIN TRAFFIC IN ACCORDANCE WITH THESE REQUIREMENTS IS INCLUDED IN THE LUMP SUM BID PRICE FOR ITEM 614 - MAINTAINING TRAFFIC.

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RESTRICTIONS

THE CONTRACTOR SHALL SUBMIT A SCHEDULE TO THE OHIO DEPARTMENT OF TRANSPORTATION INDICATING THE LOCATIONS AND DATES OF THE LANE CLOSURES AT LEAST THREE (3) DAYS PRIOR TO THE IMPLEMENTATION OF ANY SUCH CLOSURES. THE CONTRACTOR SHALL ALSO NOTIFY THE LOCAL LAW ENFORCEMENT AGENCIES OF LANE CLOSURES AT LEAST THREE (3) DAYS PRIOR TO IMPLEMENTATION. LANE CLOSURES MAY ONLY BE IMPLEMENTED AT THE TIMES PERMITTED BY THE "DISTRICT 7 OR DISTRICT 8 PERMITTED LANE CLOSURE TIMES" LISTS.

THE CLOSURE LISTS FOR THE AFOREMENTIONED DISTRICTS CAN BE FOUND AT HTTP://PLCM.DOT.STATE.OH.US/PLCM/PLCM_WEB.JSP. THE LATEST REVISION OF THE PERMITTED LANE CLOSURE LIST, AS OF 14 DAYS PRIOR TO THE BID DATE, SHALL BE IN EFFECT FOR THIS PROJECT. ANY ROADWAY NOT LISTED IN THE "DISTRICT 7 OR 8 PERMITTED LANE CLOSURE TIMES" SHALL NOT HAVE ANY CLOSURES WEEKDAYS FROM 7AM-9AM AND 3PM-6PM.

1. LANE CLOSURE TIMES SHALL BE ADJUSTED FOR SPECIAL EVENTS AT THE DAYTON INTERNATIONAL AIRPORT. THE CONTRACTOR SHALL NOT CLOSE A LANE(S) DURING WHICH SPECIAL EVENTS MAY OCCUR 2 HOURS BEFORE AN EVENT UP TO 2 HOURS AFTER AN EVENT ENDS. THIS NOTE ONLY APPLIES FOR LOCATIONS WITHIN 10 MILES OF THE I-75 AND NORTHWOODS BOULEVARD EXIT (EXIT 64).

2. THERE SHALL BE NO LANE CLOSURES ON HOLIDAY WEEKENDS. THE FOLLOWING ARE CONSIDERED HOLIDAYS: NEW YEARS, EASTER, MEMORIAL DAY, INDEPENDENCE DAY, LABOR DAY, THANKSGIVING, AND CHRISTMAS. NO LANE CLOSURES ARE ALLOWED AFTER 12 NOON ON THE DAY PRECEDING A HOLIDAY. FOR HOLIDAY WEEKENDS NO LANE CLOSURES ARE ALLOWED AFTER 12 NOON ON THE DAY PRECEDING THE HOLIDAY WEEKEND UNTIL 6 AM THE DAY AFTER THE HOLIDAY WEEKEND.

EXAMPLE: HOLIDAY FALLS ON A MONDAY THEN NO LANE CLOSURES FROM 12 NOON ON FRIDAY UNTIL 6 AM TUESDAY.

3. SHOULDER CLOSURES SHALL ONLY BE ALLOWED AT THE TIMES SPECIFIED FOR LANE CLOSURES.

4. THE CONTRACTOR WILL BE ASSESSED ROAD USER COSTS IN THE AMOUNT DETERMINED BY QUEWZ-98 FOR LANES THAT ARE CLOSED OUTSIDE OF THE TIMES GIVEN. QUEWZ-98 IS A COMPUTER PROGRAM DEVELOPED BY THE TEXAS TRANSPORTATION INSTITUTE IN 1993. IT DETERMINES ROAD USER COSTS FOR SECTIONS OF HIGHWAY. ROAD USER COSTS ARE VERY HIGH, MOST WILL BE $50 TO $100 PER MINUTE PER LANE, OR $3,000 TO $6,000 PER HOUR. IN SOME CASES ROAD USER'S COSTS MAY BE HIGHER.

5. THREE LANE CLOSURES MAY BE TAKEN ON ANY 4 LANE SECTION FROM 1:00 AM TO 5:00 AM.

NO EXTENSIONS OF TIME SHALL BE GRANTED FOR DELAYS IN MATERIAL DELIVERIES, UNLESS SUCH DELAYS ARE INDUSTRY-WIDE, OR FOR LABOR STRIKES, UNLESS SUCH STRIKES ARE AREA-WIDE.

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED LIQUIDATED DAMAGES IN ACCORDANCE WITH CMS 108.07.

LANE CLOSURES

ALL LANE CLOSURES AND RAMP CLOSURES SHALL BE CONSIDERED INCIDENTAL TO LUMP SUM BID ITEM 614 - MAINTAINING TRAFFIC.

SINGLE LANE CLOSURES SHALL BE MADE IN ACCORDANCE WITH MT-95.30 AND MEET THE FOLLOWING CONDITIONS:

A. 42-INCH (GRABBER OR EQUAL) CONES MAY BE SUBSTITUTED FOR DRUMS AT NIGHT IN TANGENT SECTIONS, IF THEY ARE EQUIPPED WITH A FOUR 6-INCH REFLECTORIZED STRIPED BANDS AND SPACED PER ODOT STANDARDS.

B. THE BARRIER TRUCK SHALL BE EQUIPPED WITH AN APPROVED ENERGY ABSORPTION DEVICE AND A TYPE C FLASHING ARROW DEVICE.

C. ALL ADVANCED LEAD-IN SIGNS SHALL BE 48" X 48" AND INCLUDE TWO (2) 24" RED FLAGS AND FLASHING TYPE A LIGHTS.

D. A FLASHING ARROW PANEL (96" X 48") TYPE C SHALL BE USED IN ALL LANE CLOSURES IN ACCORDANCE WITH THE OMUTCD.

TWO-LANE CLOSURES SHALL BE MADE IN ACCORDANCE WITH FIGURE TA-37 OF THE OMUTCD. ITEMS A THROUGH D ABOVE, WHICH DEFINE THE CONDITIONS FOR A SINGLE LANE CLOSURE, SHALL APPLY TO THE TWO-LANE CLOSURE.

THE CENTER LANE OF ANY THREE OR MORE LANE DIRECTIONAL ROADWAY WITH A POSTED SPEED LIMIT GREATER THAN 35 MPH SHALL NOT BE CLOSED BY ITSELF. TRAFFIC SHALL BE PERMITTED TO PASS ON ONLY ONE SIDE OF THE WORK AREA UNDER THESE CONDITIONS.

WHEN ONE OR TWO LANES ARE CLOSED AT AN EXIT OR ENTRANCE RAMP, MT-98.10 AND MT-98.20 SHALL APPLY.

AN EXIT RAMP MAY BE CLOSED BY THE PROJECT ENGINEER IF, IN HIS/HER OPINION, ALLOWING TRAFFIC TO USE THE RAMP IS UNSAFE. ALL EXIT RAMP CLOSURES SHALL BE IN ACCORDANCE WITH ODOT STANDARD CONSTRUCTION DRAWING MT-98.20, LANE CLOSURE AT EXIT RAMP USING DRUMS. RAMPS SHALL ONLY BE CLOSED DURING NON-PEAK HOURS AND DETOURS SHALL BE POSTED. COST OF THE DETOUR SIGNS ARE PART OF THE LUMP SUM 614 MAINTAINING TRAFFIC. A TRUCK SHALL BE USED FOR PROTECTION WHEN WORKERS ARE SETTING ADVANCE WARNING SIGNS AND THE SHOULDER IS LESS THAN 10 FEET WIDE.

THE PROTECTION VEHICLE SHALL BE EQUIPPED WITH AN APPROVED ENERGY ABSORPTION DEVICE THAT MEETS NCHRP 350, LEVEL III.

IN THE CASE OF TWO LANE EXIT RAMPS, ONLY ONE EXIT LANE SHALL BE MAINTAINED THROUGH A LANE CLOSURE.

ONLY ONE EXIST RAMP MAY BE CLOSED IN EACH DIRECTION AT ANY ONE TIME.

A WORK ZONE TRAFFIC SUPERVISOR IS REQUIRED ON SITE WHEN CLOSING LANES ON FREEWAYS OR RAMPS.

ENTRANCE RAMP CLOSURES

THE ENGINEER MAY REQUIRE AN ENTRANCE RAMP TO BE CLOSED IF, IN HIS/HER OPINION ALLOWING TRAFFIC TO MERGE INTO THE WORK AREA IS UNSAFE OR IF SIGNIFICANT CONGESTION DEVELOPS. THE RAMPS SHALL BE CLOSED IN ACCORDANCE WITH STANDARD CONSTRUCTION DRAWING MT-98.20, EXIT RAMP CLOSURE

SHORT TERM TOTAL CLOSURE

WHERE AN OVERHEAD SIGN STRUCTURE OR DYNAMIC MESSAGE SIGN IS TO BE REMOVED OR INSTALLED, ALL INTERSTATE LANES IN ONE DIRECTION OR ANY SURFACE STREET MAY BE CLOSED FOR A PERIOD NOT TO EXCEED 15 MINUTES. THE CLOSURE SHALL BE ACCORDING TO SHEET 35 AND THE FOLLOWING CONDITIONS SHALL APPLY:

TWO LAW ENFORCEMENT OFFICERS (LEOS) WITH PATROL CARS SHALL STOP TRAFFIC BY TRAVELLING SIDE BY SIDE AND COMING TO A ROLLING STOP AT THE NEAREST UPSTREAM EXIT RAMP GORE. PROVISIONS SHALL BE MADE TO ALLOW TRAFFIC TO EXIT AT THEIR DISCRETION. REENTRY SHALL NOT BE PERMITTED AT THE ADJACENT ENTRANCE RAMP, AND THEREFORE A FULL CLOSURE OF THAT RAMP USING R-75 SIGNS AND TYPE III BARRICADES TIGHTLY SPACED ACROSS THE ENTIRE EXIT RAMP SHALL BE REQUIRED. THE CONTRACTOR MAY PROVIDE A SUPPLEMENTAL VEHICLE(S) EQUIPPED WITH A FLASHING YELLOW BEACON TO ASSIST THE LEOS ON WIDE SECTIONS OF ROADWAY. LEO #1 SHALL BE RESPONSIBLE FOR PHYSICALLY CLOSING THE ROADWAY WITH THE PATROL CAR AND FLARES. LEO #2 SHALL BACKUP ALONG THE RIGHT BERM, STAYING APPROXIMATELY 500 TO 600 FEET AHEAD OF ANY STOPPED TRAFFIC. LEO #2 SHALL BE VISIBLE TO APPROACHING TRAFFIC AT ALL TIMES. THE PORTABLE DYNAMIC MESSAGE SIGN SHALL BE TURNED ON AT THE BEGINNING OF THE CLOSURE, AND TURNED OFF AS SOON AS TRAFFIC IS MOVING NORMALLY.

SHOULDER WORK

FIGURE TA-4 OF THE OMUTCD SHALL APPLY TO ALL WORK THAT IS CONFINED TO THE SHOULDERS OR ANY OF THE RAMPS. THE FOLLOWING CONDITIONS SHALL APPLY:

CONE OR DRUM SPACING SHALL BE AT 40 FEET (APPROXIMATELY EACH SKIP DASH).

THE "EXPRESSWAY" VALUE SHALL BE USED FOR DISTANCES ON SIGN. THE SIGN SHALL BE PLACED AT THE BEGINNING OF A RAMP WHERE THE WORK AREA IS LESS THAN 1200 FEET FROM THE STREET (ENTRANCE RAMPS) OR THE EXIT GORE (EXIT RAMPS).

A PROTECTION VEHICLE EQUIPPED WITH AN APPROVED ENERGY ABSORPTION DEVICE SHALL BE USED.

THE ADJACENT LANE SHALL BE CLOSED WHEN THE BERM WIDTH IS LESS THAN 10 FEET.

ALTERNATE METHODS

IF THE CONTRACTOR SO ELECTS, THEY MAY SUBMIT ALTERNATE METHODS FOR THE MAINTENANCE OF TRAFFIC, PROVIDED THE INTENT OF THE ABOVE PROVISIONS ARE FOLLOWED AND NO ADDITIONAL INCONVENIENCE TO THE TRAVELING PUBLIC RESULTS FROM THE CHANGE. NO ALTERNATE PLAN SHALL BE PLACED IN EFFECT UNTIL APPROVAL HAS BEEN GRATED BY THE ENGINEER AND ODOT IN WRITING.

FLOOD LIGHTING

FLOODLIGHTING OF THE WORK SITE FOR OPERATIONS CONDUCTED DURING NIGHT TIME PERIODS WILL BE ACCOMPLISHED SO THAT THE LIGHTS DO NOT CAUSE GLARE TO THE DRIVERS ON THE HIGHWAY. TO INSURE THE ADEQUACY OF THE FLOODING LIGHTING PLACEMENT, THE CONTRACTOR AND THE ENGINEER WILL DRIVE THROUGH THE WORK SITE EACH NIGHT, WHEN THE LIGHT IS IN PLACE AND OPERATIVE, PRIOR TO COMMENCING ANY WORK. IF GLARE IS DETECTED, THE LIGHT PLACEMENT AND SHIELDING WILL BE ADJUSTED.

NIGHT WORK

EXTRA COSTS MAY NEED TO BE INCLUDED TO CLOSE THE INTERSTATES AND EXIT OR ENTRANCE RAMPS TO INSTALL FMS EQUIPMENT. THIS WORK WILL NEED TO BE COMPLETED AT NIGHT AND WILL REQUIRE THE USE OF PORTABLE LIGHTS FOR NIGHT TIME WORK. LOCATIONS WHERE NIGHT WORK MAY BE NECESSARY INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

1) SITE #5 - MOT-70-33.89 (IR-75 & IR-70)
2) SITE #7 - MOT-70-38.89 (IR-70 & SR (201)
3) SITE #8 - MOT-70-41.05 (IR-70 & SR 4/SR 235)
4) SITE #9 - MOT-70-44.33 (IR-70 & IR-675)
5) SITE #12 - CLA-70-52.23 (IR-70 & US 68)
6) SITE #13 - CLA-70-54.52 (IR-70 & SR 72)
7) SITE #18 - WAR-75-40.14 (IR-75 & PENNYROYAL RD)
8) SITE #23 - MOT-75-47.54 (IR-75 & E. DIXIE DR)
9) SITE #25 - MOT-75-51.31 (IR-75 & CARILLON BLVD)
10) SITE #26 - MOT-75-52.69 (IR-75 & US 35)
11) SITE #30 - MOT-75-55.99 (IR-75 & STANLEY AVE)
12) SITE #32 - MOT-75-57.76 (IR-75 & TIMBER LN)
13) SITE #33 - MOT-75-58.20 (IR-75 & NEEDMORE RD)
14) SITE #40 - MOT-675-4.76 (IR-675 & SR 48)
15) SITE #42 - GRE-675-10.54 (IR-675 & INDIAN RIPPLE RD)
16) SITE #49 - MOT-35-15.94 (US 35 & LONGWORTH ST)
17) SITE #51 - MOT-35-17.79 (US 35 & STEVE WHALEN BLVD)
18) SITE #52 - MOT-35-19.08 (US 35 & SMITHVILLE RD)

ITEM 614 - LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS

USE OF LAW ENFORCEMENT OFFICERS (LEOS) BY CONTRACTORS OTHER THAN THE USES SPECIFIED BELOW WILL NOT BE PERMITTED AT PROJECT COST. LEOS SHOULD NOT BE USED WHERE THE OMUTCD INTENDS THAT FLAGGERS BE USED.

IN ADDITION TO THE REQUIREMENTS OF 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHALL BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS:

- DURING THE ENTIRE ADVANCE PREPARATION AND CLOSURE SEQUENCE WHERE COMPLETE BLOCKAGE OF TRAFFIC IS REQUIRED.

- FOR LANE CLOSURES: DURING INITIAL SET-UP PERIODS, TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED FOR LONG-TERM LANE CLOSURES/SHIFTS (FOR THE FIRST AND LAST DAY OF MAJOR CHANGES IN TRAFFIC CONTROL SETUP). IN GENERAL, LEOS SHOULD BE POSITIONED AT THE POINT OF LANE RESTRICTION OR ROAD CLOSURE AND TO MANUALLY CONTROL TRAFFIC MOVEMENTS THROUGH INTERSECTIONS IN WORK ZONES.

- WHEN CONSTRUCTION VEHICLES ARE ENTERING/EXITING THE ZONE DIRECTLY FROM/INTO AN OPEN LANE OF TRAFFIC. IF A LANE HAS BEEN CLOSED TO PROVIDE AN ACCELERATION/DECELERATION LANE FOR THE VEHICLE, THE LEO WILL NOT BE REQUIRED.

LEOS SHOULD NOT FORGO THEIR TRAFFIC CONTROL RESPONSIBILITIES TO APPREHEND MOTORISTS FOR ROUTINE TRAFFIC VIOLATIONS. HOWEVER, IF A MOTORIST'S ACTIONS ARE CONSIDERED TO BE RECKLESS, THEN PURSUIT OF THE MOTORIST IS APPROPRIATE.

THE LEOS WORK AT THE DIRECTION OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE SERVICES OF THE LEOS WITH THE APPROPRIATE AGENCIES AND COMMUNICATING THE INTENTIONS OF THE PLANS WITH RESPECT TO DUTIES OF THE LEOS. THE ENGINEER SHALL HAVE FINAL CONTROL OVER THE LEOS' DUTIES AND PLACEMENT, AND WILL RESOLVE ANY ISSUES THAT MAY ARISE BETWEEN THE TWO PARTIES.

THE LEO SHALL REPORT IN TO THE CONTRACTOR PRIOR TO THE START OF THE SHIFT, IN ORDER TO RECEIVE INSTRUCTIONS REGARDING SPECIFIC WORK ASSIGNMENTS DURING HIS/HER SHIFT. THE LEO IS EXPECTED TO STAY AT THE PROJECT SITE FOR THE ENTIRE DURATION OF HIS/HER SHIFT. THE LEO SHALL REPORT TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT. ONCE THE LEO HAS COMPLETED THE DUTIES DESCRIBED ABOVE AND STILL HAS TIME REMAINING ON HIS/HER SHIFT, THE LEO MAY BE ASKED TO PATROL THROUGH THE WORK ZONE (WITH FLASHING LIGHTS OFF) OR BE PLACED AT A LOCATION TO DETER MOTORISTS FROM SPEEDING. SHOULD IT BE NECESSARY TO LEAVE THE PROJECT SITE, THE LEO SHALL NOTIFY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE WITH A TWO-WAY COMMUNICATION DEVICE WHICH SHALL BE RETURNED TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT.

LEOS (WITH PATROL CAR) REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER ITEM 614, LAW ENFORCEMENT OFFICE (WITH PATROL CAR) FOR ASSISTANCE. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE: 1000 HOURS

THE HOURS PAID SHALL INCLUDE MINIMUM SHOW-UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED.

ANY ADDITIONAL COSTS (ADMINISTRATIVE OR OTHERWISE) INCURRED BY THE CONTRACTOR TO OBTAIN THE SERVICES OF A LEO ARE INCLUDED WITH THE BID UNIT PRICE FOR ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE.

MAINTENANCE OF ITS DEVICE INSTALLATIONS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ITS DEVICE INSTALLATIONS WITHIN THE PROJECT UNDER THE FOLLOWING CONDITIONS:

1. EXISTING ITS DEVICE INSTALLATIONS WHICH THE PLANS REQUIRE THE CONTRACTOR TO ADJUST, MODIFY, ADD ONTO OR REMOVE, OR WHICH THE CONTRACTOR ACTUALLY ADJUSTS, MODIFIES OR OTHERWISE DISTURBS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ENTIRE INSTALLATION FROM THE TIME HIS OPERATIONS FIRST DISTURB THE INSTALLATION UNTIL THE INSTALLATION HAS BEEN SUBSEQUENTLY REMOVED OR MODIFIED AND THE WORK IS ACCEPTED.

2. NEW ITS DEVICE INSTALLATIONS, INSTALLED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF THESE FROM THE TIME OF INSTALLATION UNTIL THE WORK IS ACCEPTED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ANY ITS DEVICE COMPONENTS DURING THE RELOCATION OF EQUIPMENT AND REVISIONS TO THE ITS SYSTEM.

WHEN AN ITS DEVICE OR INSTALLATION MUST BE TAKEN OUT OF SERVICE BY THE CONTRACTOR, DUE TO CONSTRUCTION PROCEDURES, THE CONTRACTOR SHALL CONTACT THE DISTRICT CONSTRUCTION ENGINEER PRIOR TO ANY ITS DEVICE OR INSTALLATION BEING TAKEN OUT OF SERVICE.

THE CONTRACTOR SHALL MAINTAIN COMPLETE RECORDS OF MALFUNCTIONS INCLUDING:

1. TIME OF NOTIFICATION OF MALFUNCTION;
2. TIME OF WORK CREWS ARRIVAL TO CORRECT THE MALFUNCTION;
3. ACTIONS TAKEN TO CORRECT THE MALFUNCTION, INCLUDING A LIST OF PARTS REPAIRED OR REPLACED;
4. A DIAGNOSIS OF REASON FOR THE MALFUNCTION AND PROBABILITY OF REOCCURRENCE;
5. TIME OF COMPLETION OF THE REPAIR AND SYSTEM RESTORED TO FULL SERVICE.

A COPY OF THESE RECORDS SHALL BE PROVIDED TO THE ENGINEER WITHIN THREE (3) WORKING DAYS FOLLOWING COMPLETION OF EACH REPAIR.

ALL COSTS RESULTING FROM THE ABOVE REQUIREMENTS SHALL BE CONSIDERED TO BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 614, MAINTAINING TRAFFIC.

CALCULATED RTM
CHECKED MJH

GENERAL NOTES

VAR-Dayton Springfield Freeway Management System

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ITEM 642-44 WORKSITE TRAFFIC SUPERVISOR, AS PER PLAN

SUBJECT TO APPROVAL OF THE ENGINEER, THE CONTRACTOR SHALL EMPLOY AND IDENTIFY (SOMEONE OTHER THAN THE SUPERINTENDENT) A CERTIFIED WORKSITE TRAFFIC SUPERVISOR (WTS) BEFORE STARTING WORK IN THE FIELD. THE WTS MAY BE CERTIFIED FROM ONE OF THE FOLLOWING ORGANIZATIONS:

1. AMERICAN TRAFFIC SAFETY SERVICE ASSOCIATION (ATSSA), PHONE NUMBER 1-800-272-8772, CERTIFIED TRAFFIC CONTROL SUPERVISOR (TCS).

2. NATIONAL HIGHWAY INSTITUTE, DESIGN AND OPERATION OF WORK ZONE TRAFFIC CONTROL, PHONE NUMBER 1-703-235-0528.

3. THE OHIO CONTRACTORS ASSOCIATION, TRAFFIC CONTROL SUPERVISOR (OCA/TCS) WORK ZONE CLASS, ONLY IF TAKEN AFTER MAY 5, 2004, PHONE NUMBER 1-614-599-7915.

4. OHIO LABORERS' TRAINING, TRAFFIC CONTROL SUPERVISORS CLASS, PHONE NUMBER 1-740-599-7915.

A COPY OF EACH WTS CERTIFICATION AND 24-HOUR CONTACT INFORMATION SHALL BE PROVIDED TO THE ENGINEER AT THE PRECONSTRUCTION CONFERENCE. THE WTS ONLY HAS TO BE ON SITE FOR LANE CLOSURES. THE WTS POSITION HAS THE RESPONSIBILITY OF MONITORING AND CORRECTING TRAFFIC CONTROL DEFICIENCIES FOR THE ENTIRE WORK ZONE. THE DUTIES OF THE WTS ARE AS FOLLOWS:

1. BE AVAILABLE ON A 24-HOUR PER DAY BASIS, AND BE ABLE TO BE ON SITE FOR ALL EMERGENCY TRAFFIC CONTROL NEEDS WITHIN ON HOUR OF NOTIFICATION BY POLICE OR PROJECT STAFF AND BE PREPARED TO EFFECT CORRECTIVE MEASURES IMMEDIATELY ON EXISTING WORK ZONE TRAFFIC CONTROL DEVICES.

2. ATTEND PRECONSTRUCTION MEETING AND ALL PROJECT MEETINGS WHERE TRAFFIC CONTROL MANAGEMENT IS DISCUSSED.

3. BE AVAILABLE FOR MEETINGS OR DISCUSSIONS WITH THE ENGINEER UPON REQUEST OR WITHIN 36 HOURS.

4. BE AWARE OF, AND COORDINATE IF NECESSARY, ALL TRAFFIC CONTROL OPERATIONS, INCLUDING THOSE OF SUBCONTRACTORS AND SUPPLIERS.

5. COORDINATE PROJECT ACTIVITIES WITH ALL LAW ENFORCEMENT OFFICERS (LEOS). A WTS SHALL ALSO BE THE MAIN CONTACT PERSON WITH THE LEOS WHILE THEY ARE ON THE PROJECT.

6. COORDINATE MEETINGS WITH ODOT PERSONNEL, LEOS, AND OTHER APPLICABLE ENTITIES BEFORE EACH PLAN PHASE SWITCH TO DISCUSS WORK ZONE TRAFFIC CONTROL.

7. ENSURE COMPLIANCE WITH THE CONTRACT DOCUMENTS FOR SIGNS, BARRICADES, TEMPORARY CONCRETE BARRIER, PAVEMENT MARKINGS, PORTABLE MESSAGE SIGNS, AND OTHER TRAFFIC CONTROL DEVICES ON A DAILY BASIS; AND FACILITATE ANY CORRECTIVE ACTION NECESSARY.

8. NOTIFY THE CONTRACTOR OF THE NEED FOR CLEANING AND MAINTENANCE OF ALL TRAFFIC CONTROL DEVICES, INCLUDING THE COVERING AND REMOVAL OF INAPPLICABLE SIGNS.

9. INSPECT, EVALUATE, PROPOSE NECESSARY MODIFICATIONS TO, AND DOCUMENT THE EFFECTIVENESS OF, THE TRAFFIC CONTROL DEVICES AND/OR TRAFFIC OPERATIONS WHEN A LANE IS CLOSED.

10. COMPLETE THE DEPARTMENT APPROVED LONG TERM INSPECTION FORM (CA-D-8) AFTER EACH INSPECTION AS REQUIRED IN NOTE 9 AND SUBMIT IT TO THE ENGINEER THE FOLLOWING WORK DAY. THESE REPORTS SHALL INCLUDE A CHECKLIST OF ALL TRAFFIC CONTROL MAINTENANCE ITEMS TO BE REVIEWED.

A COPY OF THE FORM WILL BE PROVIDED AT THE PRECONSTRUCTION MEETING. ANY DEFICIENCIES OBSERVED SHALL BE NOTED, ALONG WITH RECOMMENDED CORRECTIVE ACTIONS AND THE DATES BY WHICH SUCH CORRECTIONS WERE, OR WILL BE, COMPLETED. A COPY OF THIS DOCUMENT CAN BE FOUND IN THE DEPARTMENT OF TRANSPORTATION CONSTRUCTION INSPECTION FORMS MANUAL DATED 10/15/06 OR CURRENT REVISION.

11. VERIFY THAT ALL FLAGGING OPERATIONS ARE BEING CONDUCTED PER THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

12. HAVE COPIES OF THE ODOT TEMPORARY TRAFFIC CONTROL MANUAL AND APPLICABLE STANDARDS AND SPECIFICATIONS INCLUDED IN THE CONTRACT DOCUMENTS AVAILABLE AT ALL TIMES ON THE PROJECT.

SHOULD THE CONTRACTOR'S FAILURE TO PERFORM ANY OF THE DUTIES DESCRIBED ABOVE RESULT IN A MAINTENANCE OF TRAFFIC SAFETY ISSUE, THE DEPARTMENT WILL DEDUCT THE PRORATED DAILY AMOUNT FOR ITEM 614 MAINTENANCE OF TRAFFIC FROM THE CONTRACTOR'S NEXT SCHEDULE ESTIMATE.

IF THREE OR MORE FAILURES TO PERFORM THE DUTIES SET FORTH ABOVE OCCUR, THE WTS SHALL BE IMMEDIATELY REMOVED FROM THE WORK IN ACCORDANCE WITH C&MS 108.05.

PAYMENT FOR THE WTS SHALL BE INCLUDED UNDER THE LUMP SUM ITEM 614 MAINTAINING TRAFFIC.

ITEM 625E25403, CONDUIT, 2", 725.05, AS PER PLAN

IN ADDITIONS TO THE REQUIREMENTS OF CMS 625.12 AND 725.05, THE CONDUIT SHALL BE SCHEDULE 40 PVC. ANY UNUSED SECTIONS OF CONDUIT SHALL BE PROVIDED WITH A PULL STRING AND CAPPED FOR FUTURE USE.

ITEM 625E25602, CONDUIT, 4", 725.05, AS PER PLAN

IN ADDITIONS TO THE REQUIREMENTS OF CMS 625.12 AND 725.05, THE CONDUIT SHALL BE SCHEDULE 40 PVC. ANY UNUSED SECTIONS OF CONDUIT SHALL BE PROVIDED WITH A PULL STRING AND CAPPED FOR FUTURE USE.

ITEM 625E25901, CONDUIT JACKED OR DRILLED, 3", AS PER PLAN

IN ADDITIONS TO THE REQUIREMENTS OF CMS 625.14, THE CONDUIT SHALL BE SCHEDULE 80 PVC. ANY UNUSED SECTIONS OF CONDUIT SHALL BE PROVIDED WITH A PULL STRING AND CAPED FOR FUTURE USE.

ITEM 625E25901, CONDUIT JACKED OR DRILLED, 4", AS PER PLAN

IN ADDITIONS TO THE REQUIREMENTS OF CMS 625.14, THE CONDUIT SHALL BE SCHEDULE 80 PVC. ANY UNUSED SECTIONS OF CONDUIT SHALL BE PROVIDED WITH A PULL STRING AND CAPED FOR FUTURE USE.

ITEM 625E30701, PULL BOX 725.08, 18", AS PER PLAN, TYPE A

PULL BOX LIDS SHALL BE FABRICATED WITH RAISED LETTERS "ELECTRIC". ALL PULL BOX LOCATIONS MUST BE APPROVED BY THE DISTRICT CONSTRUCTION ENGINEER.

ITEM 625E31600, PULL BOX, MISC.: PULL BOX, 725.08, 32", TYPE B

PULL BOX LIDS SHALL BE FABRICATED WITH RAISED LETTERS "TRAFFIC". ALL PULL BOX LOCATIONS MUST BE APPROVED BY THE DISTRICT CONSTRUCTION ENGINEER. SEE SHEET 7 FOR DETAILS.

ITEM 625E31600: PULL BOX, MISC.: EXISTING PULL BOX REPAIRED

IN ADVANCE OF INSTALLING CABLE WITHIN EXISTING PULL BOXES, THE CONTRACTOR SHALL VERIFY THE CONDITION AND REPAIR THE REQUIRED PULL BOX AS NECESSARY. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE BID PRICES FOR ITEM 625, PULL BOX, MISC.: EXISTING PULL BOX REPAIRED. A CONTINGENCY QUANTITY OF 10% OF THE TOTAL NUMBER OF PULL BOXES IS USED.

THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR THIS WORK.

EXISTING PULL BOX REPAIRED: 2 EA.

ITEM 630E86310: REMOVAL OF STRUCTURE MOUNTED SIGN AND DISPOSAL, AS PER PLAN

DESCRIPTION: THIS WORK CONSISTS OF REMOVAL AND DISPOSAL OF ONE STRUCTURE MOUNTED SIGN AT SITE 43 AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH ODOT STANDARD SPECIFICATION 630.12. THIS SIGN CANNOT BE REMOVED UNTIL THE NEW SIGN IS INSTALLED ON THE DMS TRUSS AT THIS LOCATION.

METHOD OF MEASUREMENT: THE DEPARTMENT WILL MEASURE IN ACCORDANCE WITH ODOT STANDARD SPECIFICATION 630.14.

BASIS OF PAYMENT: THE PAYMENT FOR THIS ITEM WILL BE MADE FOR THE ACCEPTED NUMBER OF QUANTITIES AT THE CONTRACT UNIT PRICE.

ITEM 630E85400: REMOVAL OF MAJOR GROUND MOUNTED SIGN AND DISPOSAL, AS PER PLAN

DESCRIPTION: THIS WORK CONSISTS OF REMOVAL AND DISPOSAL OF A MAJOR GROUND MOUNTED SIGN AT SITES 1 AND 54 AS SHOWN ON THE PLANS IN ACCORDANCE WITH ODOT STANDARD SPECIFICATION 630.12. THESE SIGNS CANNOT BE REMOVED UNTIL NEW SIGNS ARE INSTALLED ON THE DMS TRUSSES AT THESE TWO LOCATIONS.

METHOD OF MEASUREMENT: THE DEPARTMENT WILL MEASURE IN ACCORDANCE WITH ODOT STANDARD SPECIFICATION 630.14.

BASIS OF PAYMENT: THE PAYMENT FOR THIS ITEM WILL BE MADE FOR THE ACCEPTED NUMBER OF QUANTITIES AT THE CONTRACT UNIT PRICE.

ITEM 632E90104 REUSE OF TRAFFIC SIGNAL ITEM: REUSE OF PULL BOX, AS PER PLAN

THIS WORK SHALL INCLUDE THE REUSE OF EXISTING PULL BOXES. EXISTING PULL BOXES TO BE REUSED SHALL BE CLEANED FOR REUSE AND PREPARED FOR INSTALLATION OF A NEW CONDUIT RUN(S).

METHOD OF MEASUREMENT: THIS WORK WILL BE MEASURED AS AN EACH UNIT BY SITE AND ACCEPTED BY THE DISTRICT CONSTRUCTION ENGINEER.

BASIS OF PAYMENT: THE PAYMENT FOR THESE ITEMS WILL BE MADE FOR THE ACCEPTED NUMBER OF QUANTITIES AT THE CONTRACT UNIT PRICE.

ITEM 632E90104 REUSE OF TRAFFIC SIGNAL ITEM: REUSE OF WOOD POLE, AS PER PLAN

THIS WORK SHALL INCLUDE THE REUSE OF EXISTING WOOD POLES. ANY EXISTING POWER SERVICE EQUIPMENT SHALL BE DISCONNECTED BUT REMAIN ON THE WOOD POLE FOR REUSE. ONCE THE WOOD POLE HAS BEEN CLEARED TO THE SATISFACTION OF THE ENGINEER, IT SHALL BE CUT TO A HEIGHT OF EIGHT FEET (8'). THE EXCESS WOOD POLE SHALL BE CAREFULLY REMOVED AND STORED IN A SAFE PLACE FOR PICK UP BY ODOT PERSONNEL. CONTACT SCOTT KASLER (937-312-3875) TO SCHEDULE THE PICK UP OF REMOVED EQUIPMENT.

METHOD OF MEASUREMENT: THIS WORK WILL BE MEASURED AS AN EACH UNIT BY SITE AND ACCEPTED BY THE DISTRICT CONSTRUCTION ENGINEER.

BASIS OF PAYMENT: THE PAYMENT FOR THESE ITEMS WILL BE MADE FOR THE ACCEPTED NUMBER OF QUANTITIES AT THE CONTRACT UNIT PRICE.

ITEM 632E90104 REUSE OF TRAFFIC SIGNAL ITEM: REUSE OF ITS CABINET, AS PER PLAN

THIS WORK SHALL INCLUDE THE REUSE OF EXISTING ITS CABINETS. ANY EXISTING ITS CABINET TO BE REUSED SHALL REMAIN IN PLACE. AN EXISTING ITS CABINET TO BE REUSED SHALL BE CLEANED FOR REUSE AND PREPARED FOR INSTALLATION OF ADDITIONAL ITS EQUIPMENT.

METHOD OF MEASUREMENT: THIS WORK WILL BE MEASURED AS AN EACH UNIT BY SITE AND ACCEPTED BY THE DISTRICT CONSTRUCTION ENGINEER.

BASIS OF PAYMENT: THE PAYMENT FOR THESE ITEMS WILL BE MADE FOR THE ACCEPTED NUMBER OF QUANTITIES AT THE CONTRACT UNIT PRICE.

ITEM 632E90020 REMOVAL OF MISCELLANEOUS TRAFFIC SIGNAL ITEM: REMOVAL OF WEB CAMERA INSTALLATION AND STORAGE, AS PER PLAN

THIS WORK SHALL INCLUDE THE REMOVAL AND STORAGE OF WEB CAMERAS AND RELATED EQUIPMENT. EQUIPMENT SHALL BE CAREFULLY REMOVED AND STORED IN A SAFE PLACE FOR PICK UP BY ODOT PERSONNEL. CONTACT SCOTT KASLER (937-312-3875) TO SCHEDULE THE PICK UP OF REMOVED EQUIPMENT.

THE FOLLOWING EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AT THE SPECIFIED LOCATIONS:

1. SOUTHBOUND I-75 MP 62.1 - TWO (2) CAMERAS MOUNTED ON OVERHEAD SIGN TRUSS. REMOVE CAMERAS AND RELATED WIRING.
2. SOUTHEAST QUADRANT OF I-75 & I-70 INTERCHANGE - FOUR (4) CAMERAS MOUNTED ON EXISTING HIGH MAST TOWER LIGHT POLE. REMOVE CAMERAS, RELATED WIRING, HIGH MAST TOWER LIGHT POLE (ITEMIZED SEPARATELY), AND FOUNDATION (ITEMIZED SEPARATELY).
3. REPEATER (NETWORK WIRELESS RADIOS) LOCATED ON HIGH MAST LIGHTING TOWER INSIDE THE LOOP FROM I-70 EASTBOUND TO I-75 NORTHBOUND AT THE I-70 AND I-75 INTERCHANGE.
4. NORTHBOUND I-75 MP 59.2 - ONE (1) CAMERA MOUNTED ON A WOOD POLE JUST SOUTH OF STOP EIGHT ROAD OVERPASS. REMOVE CAMERA AND RELATED WIRING.
5. POE AVE. FORMER HIGHWAY PATROL OUTPOST - ONE (1) CAMERA AND WIRELESS RADIOS MOUNTED ON EXISTING COMMUNICATIONS TOWER. REMOVE CAMERA, WIRELESS RADIOS, AND RELATED WIRING.
6. STATE ROUTE 202 @ I-70 INTERCHANGE - TWO (2) CAMERAS MOUNTED ON OVERHEAD CANTILEVER SIGN. REMOVE CAMERAS AND RELATED WIRING.

METHOD OF MEASUREMENT: THIS WORK WILL BE MEASURED AS AN EACH UNIT BY SITE.

BASIS OF PAYMENT: THE PAYMENT FOR THESE ITEMS WILL BE MADE FOR THE ACCEPTED NUMBER OF QUANTITIES AT THE CONTRACT UNIT PRICE.

ITEM 632E90020 REMOVAL OF MISCELLANEOUS TRAFFIC SIGNAL ITEM: REMOVAL OF EXISTING CCTV CAMERA ASSEMBLY AND STORAGE, AS PER PLAN

DESCRIPTION: THIS WORK SHALL INCLUDE THE REMOVAL AND STORAGE OF EXISTING CCTV CAMERA EQUIPMENT. EQUIPMENT TO BE REMOVED WILL INCLUDE CCTV CAMERA, CABLES, CONTROL EQUIPMENT, AND RELATED ACCESSORIES.

THIS WORK SHALL TYPICALLY INCLUDE THE REMOVAL OF A POLE MOUNTED CCTV CAMERA, REMOVAL OF CONTROL EQUIPMENT (VIDEO ENCODER, CAMERA CONTROLLER, ETC.) FROM A NEARBY ITS CABINET, AND REMOVAL OF ASSOCIATED CABLING. FOR SITE# 2 - I-70 & HOKE ROAD, THE CONTROL EQUIPMENT IS LOCATED WITHIN THE ODOT MAINTENANCE GARAGE. THE CONTRACTOR SHALL COORDINATE WITH THE DISTRICT CONSTRUCTION ENGINEER TO GAIN ACCESS TO THE FACILITY. ALL EQUIPMENT SHALL BE CAREFULLY REMOVED AND STORED IN A SAFE PLACE FOR PICK UP BY ODOT PERSONNEL. CONTACT SCOTT KASLER (937-312-3875) TO SCHEDULE THE PICK UP OF REMOVED EQUIPMENT.

METHOD OF MEASUREMENT: THIS WORK WILL BE MEASURED AS AN EACH UNIT BY SITE.

BASIS OF PAYMENT: THE PAYMENT FOR THIS ITEM WILL BE MADE FOR THE ACCEPTED NUMBER OF QUANTITIES AT THE CONTRACT UNIT PRICE.

ITEM 632E90020 REMOVAL OF MISCELLANEOUS TRAFFIC SIGNAL ITEM: REMOVAL OF EXISTING ITS CABINET AND STORAGE, AS PER PLAN

DESCRIPTION: THIS WORK SHALL INCLUDE THE REMOVAL AND STORAGE OF AN EXISTING ITS CABINET. EQUIPMENT TO BE REMOVED WILL INCLUDE AN ITS CABINET, WIRING, MOUNTING HARDWARE, AND RELATED ACCESSORIES. ALL ITEMS SHALL BE CAREFULLY REMOVED AND STORED IN A SAFE PLACE FOR PICK UP BY ODOT PERSONNEL. CONTACT SCOTT KASLER (937-312-3875) TO SCHEDULE THE PICK UP OF REMOVED EQUIPMENT.

METHOD OF MEASUREMENT: THIS WORK WILL BE MEASURED AS AN EACH UNIT BY SITE.

BASIS OF PAYMENT: THE PAYMENT FOR THIS ITEM WILL BE MADE FOR THE ACCEPTED NUMBER OF QUANTITIES AT THE CONTRACT UNIT PRICE.

ITEM 632E90020 REMOVAL OF MISCELLANEOUS TRAFFIC SIGNAL ITEM: REMOVAL OF WIRELESS RADIO ASSEMBLY AND STORAGE, AS PER PLAN

DESCRIPTION: THIS WORK SHALL INCLUDE THE REMOVAL AND STORAGE OF EXISTING WIRELESS RADIO EQUIPMENT. EQUIPMENT TO BE REMOVED WILL INCLUDE WIRELESS RADIO AND ASSOCIATED CABLES. ALL EQUIPMENT SHALL BE CAREFULLY REMOVED AND STORED IN A SAFE PLACE FOR PICK UP BY ODOT PERSONNEL. CONTACT SCOTT KASLER (937-312-3875) TO SCHEDULE THE PICK UP OF REMOVED EQUIPMENT.

METHOD OF MEASUREMENT: THIS WORK WILL BE MEASURED AS AN EACH UNIT BY SITE.

BASIS OF PAYMENT: THE PAYMENT FOR THIS ITEM WILL BE MADE FOR THE ACCEPTED NUMBER OF QUANTITIES AT THE CONTRACT UNIT PRICE.

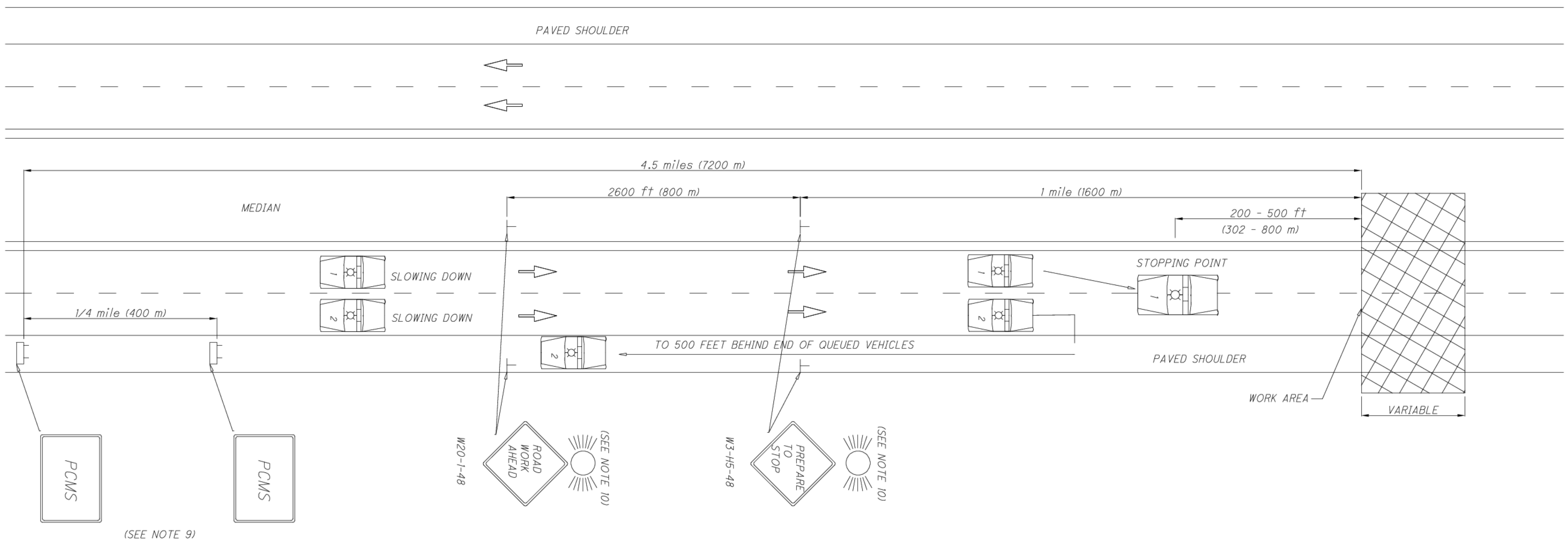
ITEM 632E90020 REMOVAL OF MISCELLANEOUS TRAFFIC SIGNAL ITEM: REMOVAL OF WOOD POLE AND STORAGE, AS PER PLAN

DESCRIPTION: THIS WORK SHALL INCLUDE THE REMOVAL AND STORAGE OF AN EXISTING WOOD POLE. THIS WORK SHALL INCLUDE REMOVAL OF A WOOD POLE, ANY EXISTING MOUNTING HARDWARE, GUY WIRES, AND RELATED ACCESSORIES. BACKFILL AND RESTORATION OF ALL SURFACES WILL BE INCLUDED WITHIN THIS PAY ITEM. ALL ITEMS SHALL BE CAREFULLY REMOVED AND STORED IN A SAFE PLACE FOR PICK UP BY ODOT PERSONNEL. CONTACT SCOTT KASLER (937-312-3875) TO SCHEDULE THE PICK UP OF REMOVED EQUIPMENT.

METHOD OF MEASUREMENT: THIS WORK WILL BE MEASURED AS AN EACH UNIT BY SITE.

BASIS OF PAYMENT: THE PAYMENT FOR THIS ITEM WILL BE MADE FOR THE ACCEPTED NUMBER OF QUANTITIES AT THE CONTRACT UNIT PRICE.

MAINTENANCE OF TRAFFIC DETAILS



SHORT DURATION CLOSURE OF MULTI-LANE DIVIDED HIGHWAY

1. THIS TYPE OF HIGHWAY CLOSURE SHALL BE USED FOR ALL CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS WHEN THE DURATION OF CLOSURE WILL NOT EXCEED 15 MINUTES.

2. A MINIMUM OF TWO LAW ENFORCEMENT OFFICERS (LEO) WITH PATROL CARS PER DIRECTION SHALL BE PROVIDED TO BLOCK TRAFFIC AND PACE MOTORISTS TO A STOP. THE NUMBER OF PATROL CARS SHALL EQUAL THE NUMBER OF LANES CLOSED ON THE HIGHWAY.

3. PATROL CARS, WITH LIGHTS FLASHING, SHOULD ENTER THE STREAM OF TRAFFIC AT APPROXIMATELY THREE (3) MILES BEFORE THE POINT OF CLOSURE. AT APPROXIMATELY TWO (2) MILES BEFORE THE POINT OF CLOSURE, THEY SHOULD BEGIN THE GRADUAL SLOW DOWN. TRAFFIC SHALL BE BROUGHT TO A COMPLETE STOP A SAFE DISTANCE, BETWEEN 200 FEET AND 500 FEET, FROM THE WORK AREA. THIS SLOWING OPERATION SHALL TAKE NO MORE THAN TEN (10) MINUTES. AFTER TRAFFIC HAS BEEN STOPPED, ONE PATROL CAR SHALL TRAVEL ALONG THE ROADWAY SHOULDER 500 FEET BEHIND THE END OF THE QUEUED VEHICLES.

4. THE CONTRACTOR SHALL NOT BEGIN WORK UNTIL TRAFFIC HAS BEEN BROUGHT TO A COMPLETE STOP.

5. ALL ENTRANCE RAMPS LOCATED BETWEEN THE STOPPED TRAFFIC AND THE WORK AREA SHALL BE CLOSED.

6. AFTER THE HIGHWAY HAS BEEN CLOSED AND REOPENED VIA THIS PROCEDURE, BOTH OF THE FOLLOWING REQUIREMENTS SHALL HAVE BEEN MET BEFORE IMPLEMENTATION OF ANOTHER SHORT DURATION CLOSURE, EXCEPT WITH THE APPROVAL OF THE ENGINEER:
   A. A MINIMUM PERIOD OF 15 MINUTES SHALL HAVE ELAPSED
   B. THE QUEUED TRAFFIC SHALL HAVE DISSIPATED

7. THIS TIME FRAME FOR STOPPING TRAFFIC SHALL BE SPECIFIED IN THE PLANS OR BY THE DISTRICT DEPUTY DIRECTOR.

8. THE PUBLIC SHALL BE GIVEN ADVANCE NOTICE OF THE UPCOMING CLOSURE BY PROVIDING PORTABLE CHANGEABLE MESSAGE SIGNS AT THE SITE AT LEAST ONE WEEK IN ADVANCE OF THE SCHEDULED CLOSING. CLOSURE INFORMATION SHOULD ALSO BE PROVIDED THROUGH THE NEWS MEDIA.

9. TWO ODOT APPROVED PORTABLE CHANGEABLE MESSAGE SIGNS, CLASS 1, SHALL BE PROVIDED. THE FIRST MESSAGE SIGN SHALL BE PLACED AT APPROXIMATELY 4.5 MILES IN ADVANCE OF THE CLOSURE OR AS DIRECTED BY THE ENGINEER. THE SECOND MESSAGE SIGN SHALL BE PLACED AT APPROXIMATELY QUARTER MILE BEYOND THE FIRST MESSAGE SIGN. THE FIRST MESSAGE SIGN SHALL READ ROAD CLOSED AHEAD (0.8 SEC.), PREPARE TO STOP (0.8 SEC.), (BLACK SCREEN FOR 0.3 SEC.) THE SECOND MESSAGE SIGN SHALL READ ROAD CLOSED AHEAD (0.8 SEC.), EXPECT 30 MIN. DELAY (0.8 SEC.). (BLACK SCREEN FOR 0.3 SEC.)

10. THE CONTRACTOR SHALL ERECT AND MAINTAIN 48 INCH "ROAD WORK AHEAD" AND "PREPARE TO STOP SIGNS ON EACH SIDE OF THE HIGHWAY. DURING NIGHT OPERATIONS, EACH SIGN SHALL BE ILLUMINATED WITH ONE (1) TYPE A FLASHING WARNING LIGHT OR TWO (2) FLARES. THE FLARES SHALL BE REPLACED IF THEY BURN OUT.

NOTE:

SEE SPECIAL PROVISIONS AND ODOT STANDARD DRAWINGS FOR ADDITIONAL MAINTENANCE OF TRAFFIC NOTES AND DETAILS.

VAR-Dayton Springfield Freeway Management System

SHEET NUMBER							PARTICIPATION				ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
38	39	40	41	113A-D			IM	STP	NHS	100% State						
															ROADWAY	
							84.0%	0.5%	15.5%		201	11000	LUMP		CLEARING AND GRUBBING	30
100							100				202	30000	100	SQ FT	WALK REMOVED	
657							586	35	36		202	38000	657	FT	GUARDRAIL REMOVED	
15							15				202	42207	15	EACH	ANCHOR ASSEMBLY REMOVED, AS PER PLAN	32
5518							4272	107	1139		606	13000	5518	FT	GUARDRAIL, TYPE 5	
318							247	35	36		606	13050	318	FT	GUARDRAIL, TYPE 5A	
120							120				606	15500	120	FT	GUARDRAIL, BARRIER DESIGN, TYPE 5	
13							8	1	4		606	26100	13	EACH	ANCHOR ASSEMBLY, TYPE E	32
14							9	1	4		606	26500	14	EACH	ANCHOR ASSEMBLY, TYPE T	
1							1				606	35100	1	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE 2	
4							4				606	60012	4	EACH	IMPACT ATTENUATOR, TYPE 1 (BIDIRECTIONAL)	32
475							400	75			606	98000	475	FT	GUARDRAIL, MISC.: GUARDRAIL REMOVED AND REPLACED	SP 3.3
24							24				607	98000	24	FT	FENCE, MISC.: FENCE REMOVED AND REPLACED	SP 3.4
92							92				608	13000	92	SQ FT	6" CONCRETE WALK	
															TRAFFIC SURVEILLANCE	
280							280				202	75711	280	FT	EXISTING CONDUIT CLEANED, AS PER PLAN	31
1							1				202	98100	1	EACH	REMOVAL, MISC.: TRANSFORMER AND EQUIPMENT STAND REMOVED	SP 3.1
1090							630	460			202	98200	1090	FT	REMOVAL, MISC.: AERIAL DISTRIBUTION CABLE REMOVED	SP 3.2
14440							12610	1830			625	22900	14440	FT	NO. 1/0 AWG 5000 VOLT DISTRIBUTION CABLE	
32880							24550	3840	4490		625	22910	32880	FT	NO. 2/0 AWG 5000 VOLT DISTRIBUTION CABLE	
1630							1410		220		625	23200	1630	FT	NO. 4 AWG 5000 VOLT DISTRIBUTION CABLE	
6050							4970	1080			625	23300	6050	FT	NO. 2 AWG 5000 VOLT DISTRIBUTION CABLE	
17785							16880	225	680		625	23302	17785	FT	NO. 6 AWG 5000 VOLT DISTRIBUTION CABLE	
19560							19560				625	23308	19560	FT	DISTRIBUTION CABLE, MISC.: NO 8 AWG 5000 VOLT DISTRIBUTION CABLE	SP 3.5
760							760				625	23308	760	FT	DISTRIBUTION CABLE, MISC.: AERIAL CABLE WITH FOUR NO. 8 AWG 5000 VOLT CABLES	SP 3.6
19780							17530	1410	840		625	25403	19780	FT	CONDUIT, 2", 725.05, AS PER PLAN	34
20625							18345	1430	850		625	25603	20625	FT	CONDUIT, 4", 725.05, AS PER PLAN	34
	3000						2620	240	140		625	25901	3000	FT	CONDUIT JACKED OR DRILLED, 3", AS PER PLAN	34
	2650						2270	240	140		625	25901	2650	FT	CONDUIT JACKED OR DRILLED, 4", AS PER PLAN	34
	55						55				625	25920	55	FT	CONDUIT, MISC.: EXISTING CONDUIT REPAIR	31
	21605						19335	1430	840		625	29002	21605	FT	TRENCH, 24" DEEP	
	80						80				625	29700	80	FT	TRENCH, MISC.: REMOVE AND REPLACE CLASS C ROCK	SP 3.7
	184						153	21	10		625	30701	184	EACH	PULL BOX, 725.08, 18", AS PER PLAN, TYPE A (ELECTRIC)	34
	188						157	21	10		625	31600	188	EACH	PULL BOX, MISC.: PULL BOX, 725.08, 32", TYPE B (TRAFFIC)	34
	2						2				625	31600	2	EACH	PULL BOX, MISC.: EXISTING PULL BOX REPAIRED	34
	64						51	8	5		625	32000	64	EACH	GROUND ROD	
	24						17	4	3		625	34001	24	EACH	POWER SERVICE, AS PER PLAN A	31
	11						9	1	1		625	34001	11	EACH	POWER SERVICE, AS PER PLAN B	31
	3						3				625	34001	3	EACH	POWER SERVICE, AS PER PLAN C	31
	1						1				625	34001	1	EACH	POWER SERVICE, AS PER PLAN D	31
	5						5				625	34001	5	EACH	POWER SERVICE, AS PER PLAN E (LIGHTING CONTROL CENTER MODIFED)	31
	15						15				625	39520	15	EACH	PULL BOX CLEANED	
	1						1				625	75350	1	EACH	LIGHT TOWER REMOVED	
	2						2				625	75506	2	EACH	LUMINAIRE REMOVED	
	3						2	1			625	75510	3	EACH	POWER SERVICE REMOVED	
	1						1				625	75540	1	EACH	LIGHT TOWER FOUNDATION REMOVED	
	6						4	2			625	98000	6	EACH	LIGHTING, MISC.: REUSE OF EXISTING POWER SERVICE	SP 3.8
	1						1				625	98000	1	EACH	LIGHTING, MISC.: REUSE OF ELECTRICAL CIRCUIT	SP 3.9
				1						1	625	98000	1	EACH	LIGHTING, MISC.: GENERATOR	SP 3.35
	2						1		1		630	70001	2	EACH	OVERHEAD SIGN SUPPORT, DMS TRUSS, 80', AS PER PLAN	26-27
	2						2				630	70041	2	EACH	OVERHEAD SIGN SUPPORT, DMS TRUSS, 150', AS PER PLAN	28-29
	8						6		2		630	70080	8	EACH	OVERHEAD SIGN SUPPORT FOUNDATION, DMS TRUSS	25, SP 3.10
	580						580				630	97800	580	SQ FT	SIGNING, MISC.: WIRE MESH FOR DMS TRUSS CATWALK	SP 3.11

CALCULATED RTM
CHECKED MJH

GENERAL SUMMARY

VAR-Dayton Springfield Freeway Management System

SHEET NUMBER							PARTICIPATION				ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
38	39	40	41				IM	STP	NHS	100% State						
															TRAFFIC SURVEILLANCE CONTINUED	
		3910					3910				631	97900	3910	FT	SIGN LIGHTING, MISC.: DYNAMIC MESSAGE SIGN, CATEGORY FIVE CABLE	SP 3.18
		29					23	5	1		631	97700	29	EACH	SIGN LIGHTING, MISC.: DISCONNECT SWITCH, 60A	SP 3.13
		1					1				631	97700	1	EACH	SIGN LIGHTING, MISC.: REMOVAL OF ELECTRIC DISCONNECT SWITCH AND REERECTION	SP 3.14
		1					1				631	97700	1	EACH	SIGN LIGHTING, MISC.: REMOVAL OF ELECTRIC DISCONNECT SWITCH AND STORAGE	SP 3.15
		4					3		1		631	97700	4	EACH	SIGN LIGHTING, MISC.: DYNAMIC MESSAGE SIGN	SP 3.17
		4					4				631	97700	4	EACH	SIGN LIGHTING, MISC.: REMOVAL OF DYNAMIC MESSAGE SIGN CONTROLLER AND REERECTION	SP 3.16
		3720					3000	120	600		632	62810	3720	FT	INTERCONNECT CABLE, MISC.: INNERDUCT 1"	SP 3.19
		1						1			632	62820	1	EACH	INTERCONNECT, MISC.: HIGHWAY ADVISORY RADIO	SP 3.20
		4					4				632	62820	4	EACH	INTERCONNECT, MISC.: REMOVAL OF HIGHWAY ADVISORY RADIO ASSEMBLY AND REERECTION	SP 3.21
		7					6		1		632	70200	7	EACH	CONDUIT RISER, 1" DIAMETER	
		3					3				632	70400	3	EACH	CONDUIT RISER, 2" DIAMETER	
		2					2				632	89300	2	EACH	WOOD POLE	
		12					9	3			632	90020	12	EACH	REMOVAL OF MISC. TRAFFIC SIGNAL ITEM: REMOVAL OF EXISTING CCTV CAMERA ASSEMBLY AND STORAGE, AS PER PLAN	34
		14					11	3			632	90020	14	EACH	REMOVAL OF MISC. TRAFFIC SIGNAL ITEM: REMOVAL OF EXISTING ITS CABINET AND STORAGE, AS PER PLAN	34
		7					4	3			632	90020	7	EACH	REMOVAL OF MISC. TRAFFIC SIGNAL ITEM: REMOVAL OF EXISTING WIRELESS RADIO ASSEMBLY AND STORAGE, AS PER PLAN	34
		12					9	3			632	90020	12	EACH	REMOVAL OF MISC. TRAFFIC SIGNAL ITEM: REMOVAL OF WOOD POLE AND STORAGE, AS PER PLAN	34
		6					6				632	90020	6	EACH	REMOVAL OF MISC. TRAFFIC SIGNAL ITEM: REMOVAL OF WEB CAMERA EQUIPMENT AND STORAGE, AS PER PLAN	34
		6					6				632	90104	6	EACH	REUSE OF TRAFFIC SIGNAL ITEM: REUSE OF PULL BOX, AS PER PLAN	34
		1					1				632	90104	1	EACH	REUSE OF TRAFFIC SIGNAL ITEM: REUSE OF WOOD POLE, AS PER PLAN	34
		1					1				632	90104	1	EACH	REUSE OF TRAFFIC SIGNAL ITEM: REUSE OF ITS CABINET, AS PER PLAN	34
		55					44	7	4		632	90400	55	EACH	SIGNALIZATION, MISC.: CCTV IP - CAMERA SYSTEM, CISCO VSOM 4.2 COMPATIBLE, UNPRESSURIZED	SP 3.22
							20				632	90400	20	EACH	SIGNALIZATION, MISC.: FOUNDATION TEST HOLE	SP 3.23
			51				40	7	4		632	90400	51	EACH	SIGNALIZATION, MISC.: CCTV POLE, TYPE A (70 FT.), WITH LOWERING DEVICE	SP 3.24
			4				4				632	90400	4	EACH	SIGNALIZATION, MISC.: CCTV POLE, TYPE B (80 FT.), WITH LOWERING DEVICE	SP 3.25
			5				4	1			632	90400	5	EACH	SIGNALZIATION, MISC.: CONCRETE POLE, HAR SUPPORT	SP 3.26
			10				7	2	1		632	90400	10	EACH	SIGNALIZATION, MISC.: VEHICLE DETECTION UNIT	SP 3.27
			1					1			632	90400	1	EACH	SIGNALIZATION, MISC.: DEVICE WORK PAD, TYPE A	9, SP 3.28
			4				3		1		632	90400	4	EACH	SIGNALIZATION, MISC.: DEVICE WORK PAD, TYPE B	9, SP 3.29
			46				36	6	4		632	90400	46	EACH	SIGNALIZATION, MISC.: DEVICE WORK PAD, TYPE C	9, SP 3.30
			8				7	1			632	90400	8	EACH	SIGNALIZATION, MISC.: DEVICE WORK PAD, TYPE D (SLOPED AREA DESIGN)	10, SP 3.31
			10				10				632	90400	10	EACH	SIGNALIZATION, MISC.: TRANSFORMER, GENERAL PURPOSE, 7.5KVA, NON-VENTILATED TYPE	SP 3.32
			55				44	7	4		633	99000	55	EACH	CONTROLLER ITEM, MISC.: FIELD EQUIPMENT CABINET, ITS CABINET	SP 3.33
			1220				1220				804	98000	1220	FT	FIBER OPTIC CABLE, MISC.: FIBER OPTIC CABLE, 12 PAIR	SP 3.34
															TRAFFIC CONTROL	
			9				6		3		630	75000	9	EACH	SIGN ATTACHMENT ASSEMBLY	
			492				324		168		630	80225	492	SQ FT	SIGN, OVERHEAD EXTRUSHEET, AS PER PLAN	SP 3.12
			1				1				630	84900	1	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
			2				1		1		630	85401	2	EACH	REMOVAL OF GROUND MOUNTED MAJOR SIGN AND DISPOSAL, AS PER PLAN	34
			4				2		2		630	86102	4	EACH	REMOVAL OF GROUND MOUNTED STRUCTURAL BEAM SUPPORT AND DISPOSAL	
			1				1				630	86311	1	EACH	REMOVAL OF STRUCTURE MOUNTED SIGN AND DISPOSAL, AS PER PLAN	34
			1				1				630	89808	1	EACH	REMOVAL OF OVERHEAD SIGN SUPPORT AND DISPOSAL, TYPE TC-18.26	
															MAINTENANCE OF TRAFFIC	
							840	5	155		614	11110	1000	HOURS	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	33
							307	1.5	56.5		614	18400	365	DAY	PORTABLE CHANGEABLE MESSAGE SIGN	32
															MISCELLANEOUS	
							84.0%	0.5%	15.5%		108	10000	LUMP		CPM PROGRESS SCHEDULE	
							84.0%	0.5%	15.5%		614	11000	LUMP		MAINTAINING TRAFFIC	32,33
							20.1	0.2	3.7		619	16000	24	MONTH	FIELD OFFICE, TYPE A	
							84.0%	0.5%	15.5%		623	10000	LUMP		CONSTRUCTION LAYOUT STAKES	
							84.0%	0.5%	15.5%		624	10000	LUMP		MOBILIZATION	

CALCULATED RTM
CHECKED MJH

GENERAL SUMMARY

VAR-Dayton Springfield Freeway Management System

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		201	202	202	202	606	606	606	606	606	606	606	606	607	608	202	202	202	625	625	625	625	625	625	625	625	625	
SHEET NO.		CLEARING AND GRUBBING	WALK REMOVED	GUARDRAIL REMOVED	ANCHOR ASSEMBLY REMOVED, AS PER PLAN	GUARDRAIL, TYPE 5	GUARDRAIL, TYPE 5A	GUARDRAIL, BARRIER DESIGN, TYPE 5	ANCHOR ASSEMBLY, TYPE E	ANCHOR ASSEMBLY, TYPE T	BRIDGE TERMINAL ASSEMBLY, TYPE 2	IMPACT ATTENUATOR, TYPE 1 (BIDIRECTIONAL)	GUARDRAIL, MISC.: GUARDRAIL REMOVED AND REPLACED	FENCE, MISC.: FENCE REMOVED AND REPLACED	6" CONCRETE WALK	EXISTING CONDUIT CLEANED, AS PER PLAN	REMOVAL, MISC.: TRANSFORMER AND EQUIPMENT STAND REMOVED	REMOVAL, MISC.: AERIAL DISTRIBUTION CABLE REMOVED	NO. 1/0 AWG 5000 VOLT DISTRIBUTION CABLE	NO. 2/0 AWG 5000 VOLT DISTRIBUTION CABLE	NO. 4 AWG 5000 VOLT DISTRIBUTION CABLE	NO. 2 AWG 5000 VOLT DISTRIBUTION CABLE	NO. 6 AWG 5000 VOLT DISTRIBUTION CABLE	DISTRIBUTION CABLE, MISC.: NO. 8 AWG 5000 VOLT DISTRIBUTION CABLE	DISTRIBUTION CABLE, MISC.: AERIAL CABLE WITH FOUR NO. 8 AWG 5000 VOLT CABLES	CONDUIT, 2", 725.05, AS PER PLAN	CONDUIT, 4", 725.05, AS PER PLAN	
		LUMP	SQ FT	FT	EACH	FT	FT	FT	EACH	EACH	EACH	EACH	FT	FT	SQ FT	FT	EACH	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	
44				115	3	1030			1	1		1								2150						500	1800	
45					1	63		43		2		1										4010				1250		
46				55	1		68			1									800							200	200	
47						32				1	1		25										4770			1010	980	
48																170	1			440						60	40	
49														24					1030							230	230	
50				18	1		29			1													4780			1130	1100	
51				38			38			1													6170			1370	1350	
52													25											3440		650	630	
54					1	284			1							70				1520						440	450	
55													25									590				130	130	
56																								6300		1420	1400	
57																								2950		560	530	
58																					370					60	60	
59																					310					40	40	
61				133	3	374	112	36	1	1		1								2670						560	570	
62													25							1390						280	280	
64					1	497			1											1280						320	370	
65																				2010						480	480	
66																			880							130	130	
68																							240			30	50	
69													25							1580						220	220	
70													25											3780		580	550	
71																							920			240	240	
73					1	398			1				25							1410						360	370	
74													25					340		1460						360	360	
75																												
76			100												92						730					110	110	
77													25						1240							200	200	
78													25							1450						340	340	
79					1	356			1											1320						320	320	
81																												
82													25			40			630							10	10	
83				29	1	209			1				25						620							80	210	
85																		290	1200							270	210	
86													25						840							170	170	
88																				1650						420	475	
89																			900							240	240	
90													25									370				60	60	
91																			560							130	130	
92																			1860							550	1310	
93																			880							60	60	
95				198	1	1029		41	1	1		1								2240						500	500	
96													25							1980						510	510	
97													25											3090	760	620	600	
98																			1170							330	330	
99																						490				100	100	
100																				1860						510	510	
101				35			35																225			30	30	
102													25					460		1980						380	380	
103													25						920							120	120	
104						107			1	1			25									590				80	80	
106																			910							190	210	
108				36		886	36		3	3										4490						720	730	
109						253			1	1													310			40	40	
110																					220					20	20	
111																							370			60	60	
TOTALS CARRIED TO THE GENERAL SUMMARY																												
		0	100	657	15	5518	318	120	13	14	1	4	475	24	92	280	1	1090	14440	32880	1630	6050	17785	19560	760	19780	20625	

CALCULATED RTM
CHECKED MJH

FMS SUB-SUMMARY

VAR-Dayton Springfield Freeway Management System

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SHEET NO.	CONDUIT, JACKED OR DRILLED, 3", AS PER PLAN	CONDUIT JACKED OR DRILLED, 4" AS PER PLAN	CONDUIT, MISC.: EXISTING CONDUIT REPAIR	TRENCH, 24" DEEP	TRENCH, MISC.: REMOVE AND REPLACE CLASS C ROCK	PULL BOX, 725.08, 18" AS PER PLAN, TYPE A (ELECTRIC)	PULL BOX, MISC.: PULL BOX, 725.08, 32", TYPE B (TRAFFIC)	PULL BOX, MISC.: EXISTING PULL BOX REPAIRED	GROUND ROD	POWER SERVICE, AS PER PLAN A	POWER SERVICE, AS PER PLAN B	POWER SERVICE, AS PER PLAN C	POWER SERVICE, AS PER PLAN D	POWER SERVICE, AS PER PLAN E (LIGHTING CONTROL CENTER MODIFED)	PULL BOX CLEANED	LIGHT TOWER REMOVED	LUMINAIRE REMOVED	POWER SERVICE REMOVED	LIGHT TOWER FOUNDATION REMOVED	LIGHTING, MISC.: REUSE OF EXISTING POWER SERVICE	LIGHTING, MISC.: REUSE OF ELECTRICAL CIRCUIT	OVERHEAD SIGN SUPPORT, DMS TRUSS, 80', AS PER PLAN	OVERHEAD SIGN SUPPORT, DMS TRUSS , 150', AS PER PLAN	OVERHEAD SIGN SUPPORT FOUNDATION, DMS TRUSS	SIGNING, MISC.: WIRE MESH FOR DMS TRUSS CATWALK
	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	630	630	630	630
	FT	FT	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	SQ FT
44				1800		3	7		2	1												1		2	
45	290			830		6	5		2				1												
46				200		2	2		1	1															
47	110	110		1000		7	7		1					1											
48			45	50		1	1	1	1						5	1	2		1		1				
49	50	50		230		4	4		1	1															
50				1120		4	4		1			1													
51	100	100		1360		7	7		1					1											
52	150	150		640		7	7		1			1													
54				440		1	1		2						3										144
55				130		2	2		1	1															
56	80	80		1410		7	7		1					1											
57	110	110		550		4	4		1			1													
58				60		2	2		1	1															
59				40		2	2		1	1															
61				560		3	3		2	1													1	2	
62	120	120		280		3	3		1	1															
64				370		2	2		1																200
65	120	120		480		6	6		1		1														
66	90	90		130		4	4		1		1														
68				50		1	1		2		1							1							
69	230	230		220		5	5		1	1															
70	280	280		560		8	8		1					1											
71				240		2	2		1		1														
73				360		1	1		1						2										81
74	60	60		360		5	5		1											1					
75																									
76	70	70		110		3	3		1	1								1							
77	140	140		200		5	5		1		1														
78	70	70		340		4	4		1	1															
79	60	60		320		4	4		1	1															
81																									81
82			10	10				1	1						5					1					
83	70	70		210		3	4		1											1					
85	60			360		5	2		2											1					
86	40	40		170		4	4		1	1															
88				475		2	3		1																74
89				240		2	2		1	1															
90				60		2	2		1	1															
91				50	80	2	2		1	1															
92				1310		3	5		1		1														
93	160	160		60		3	3		1	1															
95				500		3	3		2		1												1	2	
96	90	90		510		3	3		1		1														
97	70	70		610		4	4		1					1											
98				330		2	2		1		1														
99				100		2	2		1		1														
100	40	40		510		4	4		1	1															
101				30		1	1		1											1					
102	50	50		380		3	3		1											1					
103	50	50		120		3	3		1	1								1							
104	60	60		80		3	3		1	1															
106	40	40		210		5	5		2	1															
108	140	140		720		5	5		2		1											1		2	
109				40		2	2		1	1															
110				20		1	1		1	1															
111				60		2	2		1	1															
TOTALS CARRIED TO THE GENERAL SUMMARY	3000	2650	55	21605	80	184	188	2	64	24	11	3	1	5	15	1	2	3	1	6	1	2	2	8	580

CALCULATED RTM
CHECKED MJH

FMS SUB-SUMMARY

VAR-Dayton Springfield Freeway Management System

FMS SUB-SUMMARY

SHEET NO.	631 SIGN LIGHTING, MISC.: DYNAMIC MESSAGE SIGN, CATEGORY FIVE CABLE	631 SIGN LIGHTING, MISC.: DISCONNECT SWITCH, 60A	631 SIGN LIGHTING, MISC.: REMOVAL OF ELECTRIC DISCONNECT SWITCH AND REERECTION	631 SIGN LIGHTING, MISC.: REMOVAL OF ELECTRIC DISCONNECT SWITCH AND STORAGE	631 SIGN LIGHTING, MISC.: DYNAMIC MESSAGE SIGN	631 SIGN LIGHTING, MISC.: REMOVAL OF DYNAMIC MESSAGE SIGN CONTROLLER AND REERECTION	632 INTERCONNECT CABLE, MISC.: INNERDUCT 1"	632 INTERCONNECT, MISC.: HIGHWAY ADVISORY RADIO	632 INTERCONNECT, MISC.: REMOVAL OF HIGHWAY ADVISORY RADIO ASSEMBLY AND REERECTION	632 CONDUIT RISER, 1" DIAMETER	632 CONDUIT RISER, 2" DIAMETER	632 WOOD POLE	632 REMOVAL OF MISC. TRAFFIC SIGNAL ITEM: REMOVAL OF EXISTING CCTV CAMERA ASSEMBLY AND STORAGE, APP	632 REMOVAL OF MISC. TRAFFIC SIGNAL ITEM: REMOVAL OF EXISTING ITS CABINET AND STORAGE, AS PER PLAN	632 REMOVAL OF MISC. TRAFFIC SIGNAL ITEM: REMOVAL OF EXISTING WIRELESS RADIO ASSEMBLY AND STORAGE, APP	632 REMOVAL OF MISC. TRAFFIC SIGNAL ITEM: REMOVAL OF WOOD POLE AND STORAGE, AS PER PLAN	632 REMOVAL OF MISC. TRAFFIC SIGNAL ITEM: REMOVAL OF WEB CAMERA EQUIPMENT AND STORAGE, AS PER PLAN	632 REUSE OF TRAFFIC SIGNAL ITEM: REUSE OF PULL BOX, AS PER PLAN	632 REUSE OF TRAFFIC SIGNAL ITEM: REUSE OF WOOD POLE, AS PER PLAN	632 REUSE OF TRAFFIC SIGNAL ITEM: REUSE OF ITS CABINET, AS PER PLAN	632 SIGNALIZATION, MISC.: CCTV IP - CAMERA SYSTEM, CISCO VSOM 4.2 COMPATIBLE, UNPRESSURIZED	632 SIGNALIZATION, MISC.: FOUNDATION TEST HOLE
	FT	EACH	EACH	EACH	EACH	EACH	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
44					1		420			1											1	
45		1							1				1			1					1	
46		1																			1	
47																					1	
48																	4				1	
49		1															1				1	
50																					1	
51																					1	
52																					1	
54	1130		1			1	500		1		1		1	1		2		4		1	1	
55																					1	
56																					1	
57																					1	
58																					1	
59																					1	
61		1			1		430			1											1	
62		1																			1	
64	820					1	320			1	1	1		1							1	
65		1																			1	
66		1																			1	
68							10		1				1	1		2					1	
69		1																			1	
70																					1	
71																					1	
73	930					1	380			1	1		1	2	1			2	1		1	
74		1											1	1	1	2					1	
75																						
76		1											1	1							1	
77		1																			1	
78		1																			1	
79		1											1	1	1	1					1	
81													1	1	1							
82		1																			1	
83		1															1				1	
85		1		1			120		1				1	1		1					1	
86		1																			1	
88	1030					1	410			1				1							1	
89																					1	
90																					1	
91		1																			1	
92		1																			1	
93		1																			1	
95		1			1		410			1											1	
96		1																			1	
97												1									1	
98		1																			1	
99																					1	
100		1																			1	
101													1	1	1						1	
102		1											1	1	1	1					1	
103		1											1	1	1	2					1	
104		1																			1	
106		1					120	1													1	
108		1			1		600			1											1	
109																					1	
110																					1	
111																					1	
SP 3.23																						20
TOTALS CARRIED TO THE GENERAL SUMMARY																						
	3910	29	1	1	4	4	3720	1	4	7	3	2	12	14	7	12	6	6	1	1	55	20

CALCULATED RTM
CHECKED MJH

VAR-Dayton Springfield Freeway Management System

FMS SUB-SUMMARY

SHEET NO.		632 SIGNALIZATION, MISC.: CCTV POLE, TYPE A (70 FT.), WITH LOWERING DEVICE	632 SIGNALIZATION, MISC.: CCTV POLE, TYPE B (80 FT.), WITH LOWERING DEVICE	632 SIGNALIZATION, MISC.: CONCRETE POLE, HAR SUPPORT	632 SIGNALIZATION, MISC.: VEHICLE DETECTION UNIT	632 SIGNALIZATION MISC.: DEVICE WORK PAD, TYPE A	632 SIGNALIZATION MISC.: DEVICE WORK PAD, TYPE B	632 SIGNALIZATION MISC.: DEVICE WORK PAD, TYPE C	632 SIGNALIZATION MISC.: DEVICE WORK PAD, TYPE D (SLOPED AREA DESIGN)	632 SIGNALIZATION MISC.: TRANSFORMER, GENERAL PURPOSE, 7.5KVA, NON-VENTILATED TYPE	633 CONTROLLER ITEM, MISC.: FIELD EQUIPMENT CABINET, ITS CABINET	804 FIBER OPTIC CABLE, MISC.: FIBER OPTIC CABLE, 12 PAIR	630 SIGN ATTACHMENT ASSEMBLY	630 SIGN, OVERHEAD EXTRUSHEET, AS PER PLAN	630 REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	630 REMOVAL OF GROUND MOUNTED MAJOR SIGN AND DISPOSAL, AS PER PLAN	630 REMOVAL OF GROUND MOUNTED STRUCTURAL BEAM SUPPORT AND DISPOSAL	630 REMOVAL OF STRUCTURE MOUNTED SIGN AND DISPOSAL, AS PER PLAN	630 REMOVAL OF OVERHEAD SIGN SUPPORT AND DISPOSAL, TYPE TC-18.26
		EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	FT	EACH	SQ FT	EACH	EACH	EACH	EACH	EACH
44		1					1	1			1		3	164	1	1	2		
45		1		1				1		1	1	750							
46		1			1				1		1								
47		1						1		1	1								
48			1					1		1	1								
49		1						1			1								
50		1							1	1	1								
51		1							1	1	1								
52		1						1		1	1								
54		1		1	1				1		1	470							
55		1						1			1								
56		1						1		1	1								
57		1						1		1	1								
58		1						1			1								
59		1						1			1								
61		1			1		1	1			1								
62		1						1			1								
64		1						1			1								
65		1						1			1								
66		1						1			1								
68		1		1				1			1								
69		1						1			1								
70		1						1		1	1								
71		1						1			1								
73		1			1			1			1								
74			1						1		1								
75																			
76		1									1								
77			1					1			1								
78		1						1			1								
79		1			1			1			1								
81																			
82		1							1		1								
83		1						1			1								
85		1		1				1			1								
86		1						1			1								
88		1			1			1			1								
89			1					1			1								
90		1						1			1								
91		1						1			1								
92		1						1			1								
93		1						1			1								
95		1			1		1	1			1		3	160				1	1
96		1						1			1								
97		1							1	1	1								
98		1						1			1								
99		1						1			1								
100		1			1			1			1								
101		1			1				1		1								
102		1						1			1								
103		1						1			1								
104		1						1			1								
106		1		1		1		1			1								
108		1			1		1	1			1		3	168		1	2		
109		1						1			1								
110		1						1			1								
111		1						1			1								
TOTALS CARRIED TO THE GENERAL SUMMARY																			
		51	4	5	10	1	4	46	8	10	55	1220	9	492	1	2	4	1	1

CALCULATED RTM
CHECKED MJH

VAR-Dayton Springfield Freeway Management System

LEGEND (SHEETS 43-111)

EXISTING

	EXISTING DMS TRUSS
	EXISTING HAR TO REMAIN WITH MODIFICATIONS
	EXISTING ELECTRICAL UTILITY POLE
	EXISTING STRAIN POLE
— — — —E—	EXISTING OVERHEAD ELECTRIC UTILITY LINE
	EXISTING CONDUIT
——x——	EXISTING FENCE
	EXISTING GUARDRAIL
	EXISTING EDGE OF PAVEMENT
	EXISTING SHOULDER
	EXISTING PAVEMENT MARKING, EDGE LINE
	EXISTING PAVEMENT MARKING, LANE LINE
	EXISTING TRAFFIC SIGNAL CONTROLLER
C	EXISTING CELLULAR TOWER
	EXISTING ELECTRIC PULL BOX
	EXISTING GROUND MOUNTED TRANSFORMER
EV	EXISTING ELECTRIC VAULT
	EXISTING HIGH MAST TOWER LIGHT
	EXISTING LIGHT POLE
	EXISTING LIGHTING CIRCUIT
	EXISTING SIGNAL PEDESTAL
	EXISTING TELEPHONE PEDESTAL
TV	EXISTING TELEPHONE VAULT
— — — —T—	EXISTING TELEPHONE LINE
— — — —FOctv	EXISTING CABLE - FIBER OPTIC LINE
— — — —G—	EXISTING GAS LINE
— — — —SAN	EXISTING SANITARY SEWER
— — — —W—	EXISTING WATER LINE
	EXISTING TREE/SHRUB LINE
	EXISTING TOP OF BANK LINE
	EXISTING TOE OF SLOPE LINE
——Ex R/W——	EXISTING RIGHT OF WAY LINE
	EXISTING CURB
	EXISTING STORM SEWER
	EXISTING PAVED GUTTER

PROPOSED

	CCTV WITH ITS CABINET AND WORK PAD, APP
	CCTV AND WORK PAD, APP
	CCTV WITH VEHICLE DETECTION UNIT, ITS CABINET, AND WORK PAD, APP
	DMS TRUSS WITH ITS CABINET AND WORK PAD, APP
	TRAFFIC/COMMUNICATION PULL BOX
	ELECTRIC PULL BOX
	HIGHWAY ADVISORY RADIO ASSEMBLY - REMOVED
	HIGHWAY ADVISORY RADIO ASSEMBLY - RELOCATED
	HIGHWAY ADVISORY RADIO ASSEMBLY - PROPOSED
	GUARD RAIL END TREATMENT
	PEDESTAL POLE
P	SERVICE POLE
————E——	PROPOSED OVERHEAD ELECTRIC UTILITY LINE
	PROPOSED TRENCH WITH CONDUIT
	PROPOSED JACKED CONDUIT
	PROPOSED IMPACT ATTENUATOR
	PROPOSED GUARDRAIL

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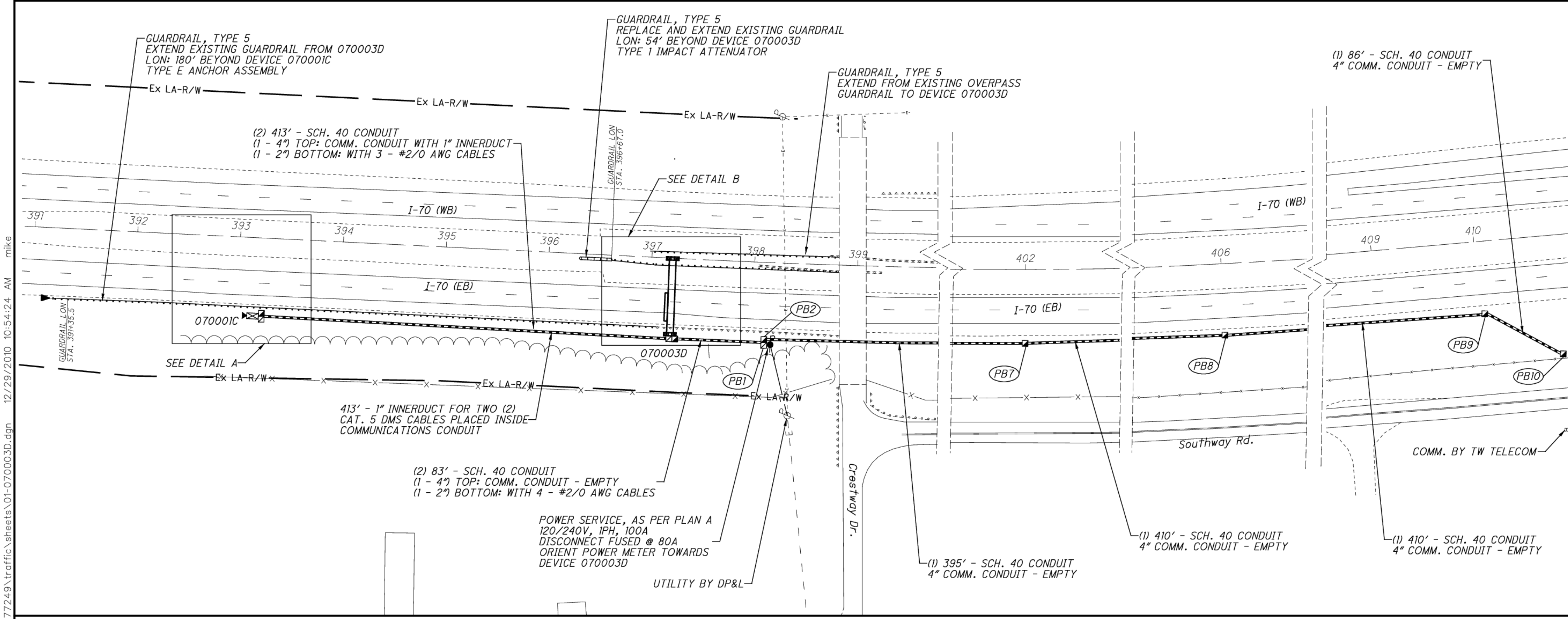
CALCULATED RTM CHECKED MJH

FMS DEVICE LEGEND

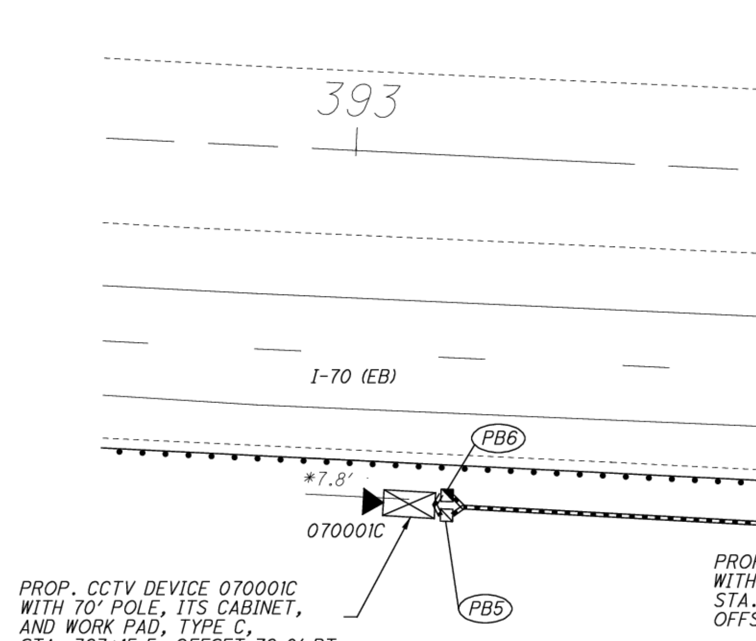
VAR-Dayton Springfield Freeway Management System



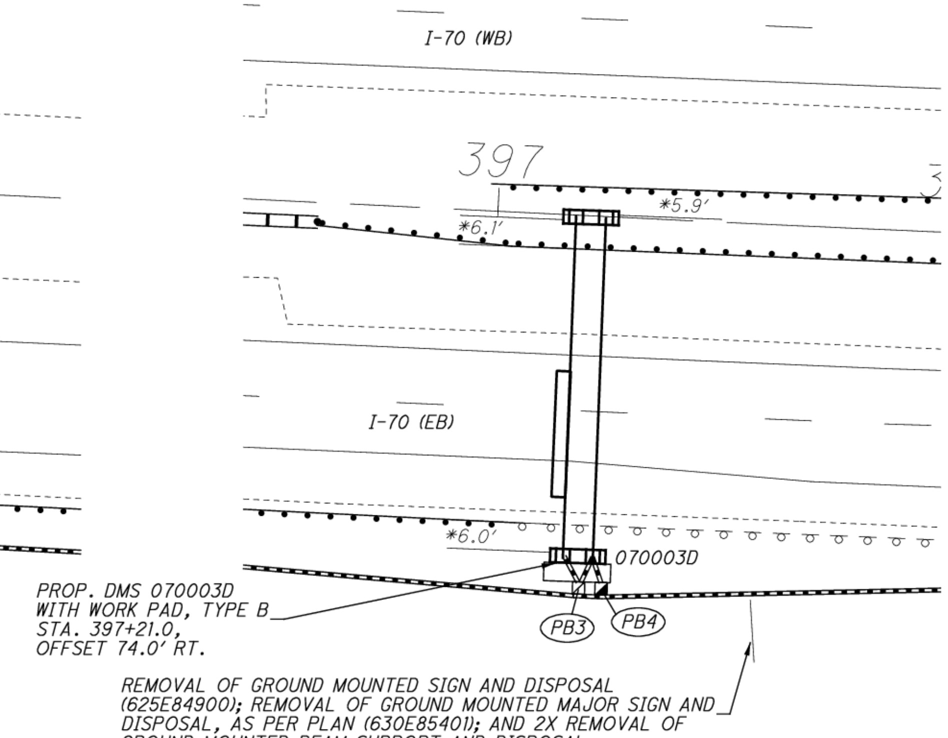
PB1 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 398+11.5, 77.5' RT.
PB2 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 398+11.5, 77.5' RT.
PB3 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 397+30.0, 76.5' RT.
PB4 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 397+30.0, 76.5' RT.
PB5 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 393+23.5, 76.0' RT.
PB6 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 393+23.5, 76.0' RT.
PB7 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 401+99.5, 71.5' RT.
PB8 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 406+00.0, 69.5' RT.
PB9 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 410+05.0, 70.5' RT.
PB10 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 410+77.0, 116.0' RT.

REFER TO SHEETS 7-8 FOR PULL BOX AND CONDUIT DETAILS
REFER TO SHEETS 9-10 FOR WORK PAD DETAILS
REFER TO SHEETS 11-15 FOR ELECTRICAL DETAILS
REFER TO SHEET 16 FOR COMMUNICATION SERVICE DETAILS
REFER TO SHEETS 18-19 FOR TYPICAL CCTV CAMERA POLE DETAILS
REFER TO SHEET 20 FOR POLE ORIENTATION CHART
REFER TO SHEET 21 FOR TYPICAL DMS DETAILS
REFER TO SHEET 25 FOR TYPICAL DMS TRUSS FOUNDATION DETAILS
REFER TO SHEETS 26-27 FOR TYPICAL DMS TRUSS DETAILS
REFER TO SHEET 114 FOR COMMUNICATIONS PLAN OVERVIEW
REFER TO SHEET 117 FOR FIELD CABINET LAYOUT

DETAIL A - NOT TO SCALE
SEE SHEET 44 FOR WIRING INFORMATION



DETAIL B - NOT TO SCALE
SEE SHEET 44 FOR WIRING INFORMATION



* PROPOSED OFFSET BETWEEN DEVICE AND FACE OF GUARDRAIL.

HORIZONTAL SCALE IN FEET: 0, 25, 50, 100

CALCULATED RTM
CHECKED MJH

SITE PLAN #1 - MOT-70-25.19
I-70 AND CRESTWAY RD

VAR-Dayton Springfield Freeway Management System

SUB-SUMMARY			
ITEM	TOTAL	UNIT	DESCRIPTION
202	115	FT	GUARDRAIL REMOVED
202	3	EACH	ANCHOR ASSEMBLY REMOVED, AS PER PLAN
606	1030	FT	GUARDRAIL, TYPE 5
606	1	EACH	ANCHOR ASSEMBLY, TYPE E
606	1	EACH	ANCHOR ASSEMBLY, TYPE T
606	1	EACH	IMPACT ATTENUATOR, TYPE 1 (BIDIRECTIONAL)
625	2150	FT	NO. 2/0 AWG 5000 VOLT DISTRIBUTION CABLE
625	500	FT	CONDUIT, 2", 725.05, AS PER PLAN
625	1800	FT	CONDUIT, 4", 725.05, AS PER PLAN
625	1800	FT	TRENCH, 24" DEEP
625	3	EACH	PULL BOX, 725.08, 18", AS PER PLAN, TYPE A (ELECTRIC)
625	7	EACH	PULL BOX, MISC.: PULL BOX, 725.08, 32", TYPE B (TRAFFIC)
625	2	EACH	GROUND ROD
625	1	EACH	POWER SERVICE, AS PER PLAN A
630	1	EACH	OVERHEAD SIGN SUPPORT, DMS TRUSS, 80' AS PER PLAN
630	2	EACH	OVERHEAD SIGN SUPPORT FOUNDATION, DMS TRUSS
630	3	EACH	SIGN ATTACHMENT ASSEMBLY
630	164	SQ FT	SIGN, OVERHEAD EXTRUSHEET, AS PER PLAN
630	1	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL
630	1	EACH	REMOVAL OF GROUND MOUNTED MAJOR SIGN AND DISPOSAL, AS PER PLAN
630	2	EACH	REMOVAL OF GROUND MOUNTED STRUCTURAL BEAM SUPPORT AND DISPOSAL
631	1	EACH	SIGN LIGHTING, MISC.: DYNAMIC MESSAGE SIGN
632	420	FT	INTERCONNECT CABLE, MISC.: INNERDUCT, 1"
632	1	EACH	CONDUIT RISER, 1" DIAMETER
632	1	EACH	SIGNALIZATION, MISC.: CCTV IP - CAMERA SYSTEM, CISCO VSOM 4.2 COMPATIBLE, UNPRESSURIZED
632	1	EACH	SIGNALIZATION, MISC.: CCTV POLE, TYPE A (70 FT.), WITH LOWERING DEVICE
632	1	EACH	SIGNALIZATION, MISC.: DEVICE WORK PAD, TYPE B
632	1	EACH	SIGNALIZATION, MISC.: DEVICE WORK PAD, TYPE C
633	1	EACH	CONTROLLER ITEM, MISC.: FIELD EQUIPMENT CABINET, ITS CABINET

REFER TO SHEETS 7-8 FOR PULL BOX AND CONDUIT DETAILS

REFER TO SHEETS 9-10 FOR WORK PAD DETAILS

REFER TO SHEETS 11-15 FOR ELECTRICAL DETAILS

REFER TO SHEET 16 FOR COMMUNICATION SERVICE DETAILS

REFER TO SHEETS 18-19 FOR TYPICAL CCTV CAMERA POLE DETAILS

REFER TO SHEET 20 FOR POLE ORIENTATION CHART

REFER TO SHEET 21 FOR TYPICAL DMS DETAILS

REFER TO SHEET 25 FOR TYPICAL DMS TRUSS FOUNDATION DETAILS

REFER TO SHEETS 26-27 FOR TYPICAL DMS TRUSS DETAILS

REFER TO SHEET 114 FOR COMMUNICATIONS PLAN OVERVIEW

REFER TO SHEET 117 FOR FIELD CABINET LAYOUT

PLAN CLARIFICATIONS

SITE #1: I-70 & CRESTWAY RD.

CONTRACTOR:
CCTV CAMERA: CONSTRUCT A CCTV CAMERA SITE PER SITE PLAN, DETAIL SHEETS 18 & 19, SPECIAL PROVISIONS SECTIONS 3.22, 3.24/25, AND ANY OTHER PLANS OR SPECIAL PROVISIONS SECTIONS THAT MAY APPLY. CCTV CAMERA POLE SHALL BE LOCATED AT STA. 393+15.5, OFFSET 76.0' RT AND BE ORIENTED PER ORIENTATION CHART ON SHEET 20. INSTALL ITS CABINET ON THE CONCRETE CAMERA POLE. THE CCTV AND DMS CONTROLLERS SHALL BE LOCATED IN THE ITS CABINET. THE ITS CABINET SHALL BE CONNECTED TO A 30 AMP POWER SERVICE FROM DMS POWER PANEL.

DMS: CONSTRUCT DMS AND DMS SUPPORT STRUCTURE INCLUDING FOUNDATION. TWO (2) NEW CAT. 5 CABLES SHALL PROVIDE COMM. SERVICE FROM NETWORK SWITCH IN NEW ITS CABINET TO MAIN DMS CONTROLLER IN THE SIGN AND THEN BACK TO AUXILIARY CONTROL PANEL IN THE ITS CABINET ON CAMERA CONCRETE POLE VIA 1" INNERDUCT IN COMM. CONDUITS. SEE SITE PLANS, SPECIAL PROVISIONS SECTIONS 3.10, 3.16, AND ANY OTHER PLANS OR SPECIAL PROVISIONS THAT MAY BE APPLICABLE. PROVIDE 100 AMP POWER SERVICE UNDERGROUND FROM SERVICE POLE TO DMS POWER PANEL.

POWER: CONSTRUCT POWER SERVICE, AS PER PLAN A, FOR THIS SITE. SEE SHEETS 11-16, 31, AND OTHER NECESSARY SHEETS FOR ELECTRICAL DETAILS.

COORDINATE COMMUNICATION CONSTRUCTION WITH TW TELECOM.

LOCATIONS OF PULL BOXES IN THE PLAN ARE APPROXIMATE AND WILL BE DETERMINED BY THE ENGINEER.

TEST EQUIPMENT AS PER SPECIAL PROVISIONS FOR LOCAL OPERATION. SEE SPECIAL PROVISIONS SECTIONS 2.23 - 2.27.

ODOT:
FURNISH AND INSTALL NETWORK SWITCH, AND SMART UPS FOR THE ITS CABINET.

TEST NETWORK CONNECTION FOR PROPER OPERATION AS PER SPECIAL SPECIFICATIONS.

DP&L:
CONNECT POWER FROM OVERHEAD TRANSFORMER TO POLE MOUNTED POWER SERVICE INSTALLED BY CONTRACTOR (POWER SERVICE AS PER PLAN A).

TW TELECOM:
FURNISH AND INSTALL COMMUNICATION SERVICE CABLE TO ITS CABINET FROM TW TELECOM SERVICE POINT.

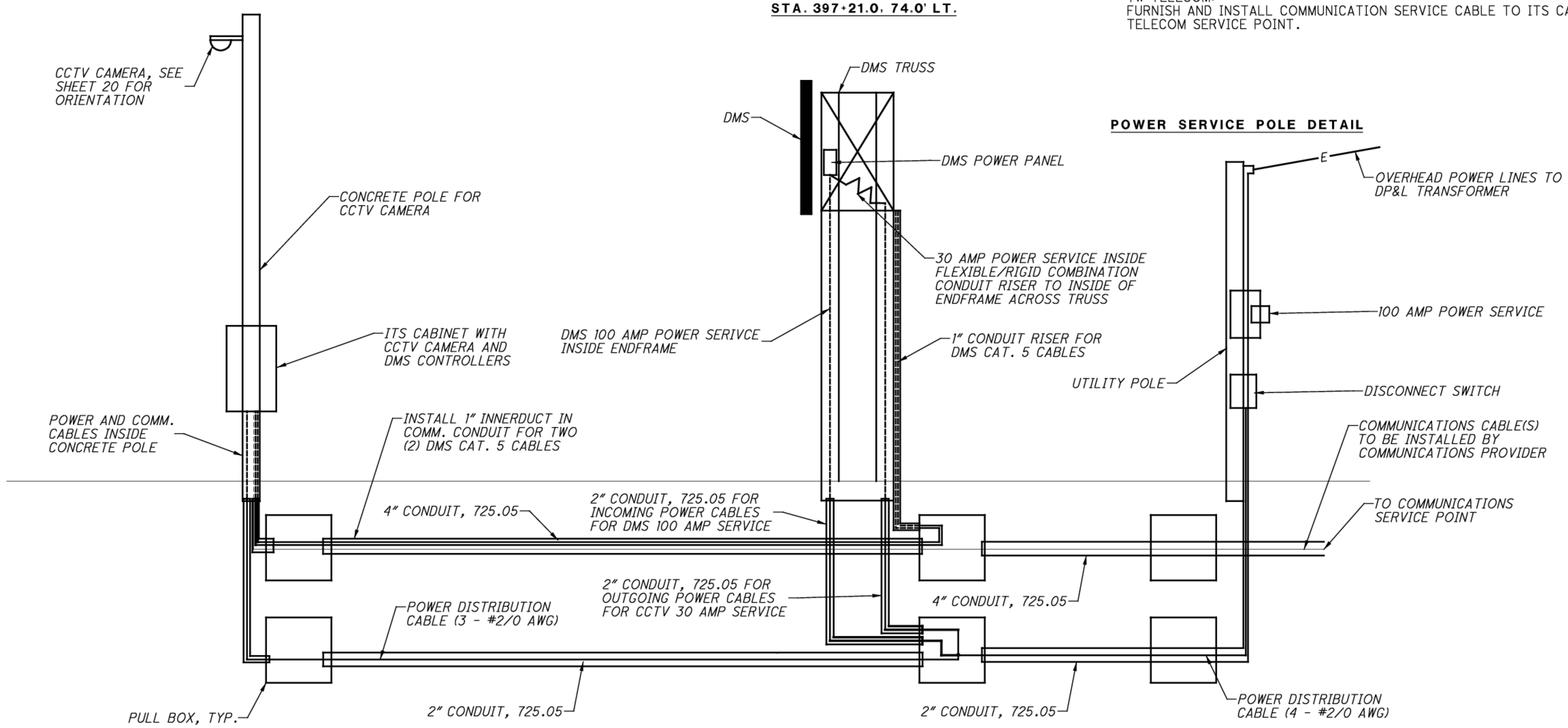
SITE #1 WIRING DETAIL

NOT TO SCALE

CAMERA POLE DETAIL
STA. 393+15.5, 76.0' RT.

DMS TRUSS DETAIL
STA. 397+21.0, 74.0' LT.

POWER SERVICE POLE DETAIL



0 25 50 100
HORIZONTAL SCALE IN FEET

CALCULATED RTM
CHECKED MJH

SITE #1 - MOT-70-25.19 - DETAIL
I-70 AND CRESTWAY RD

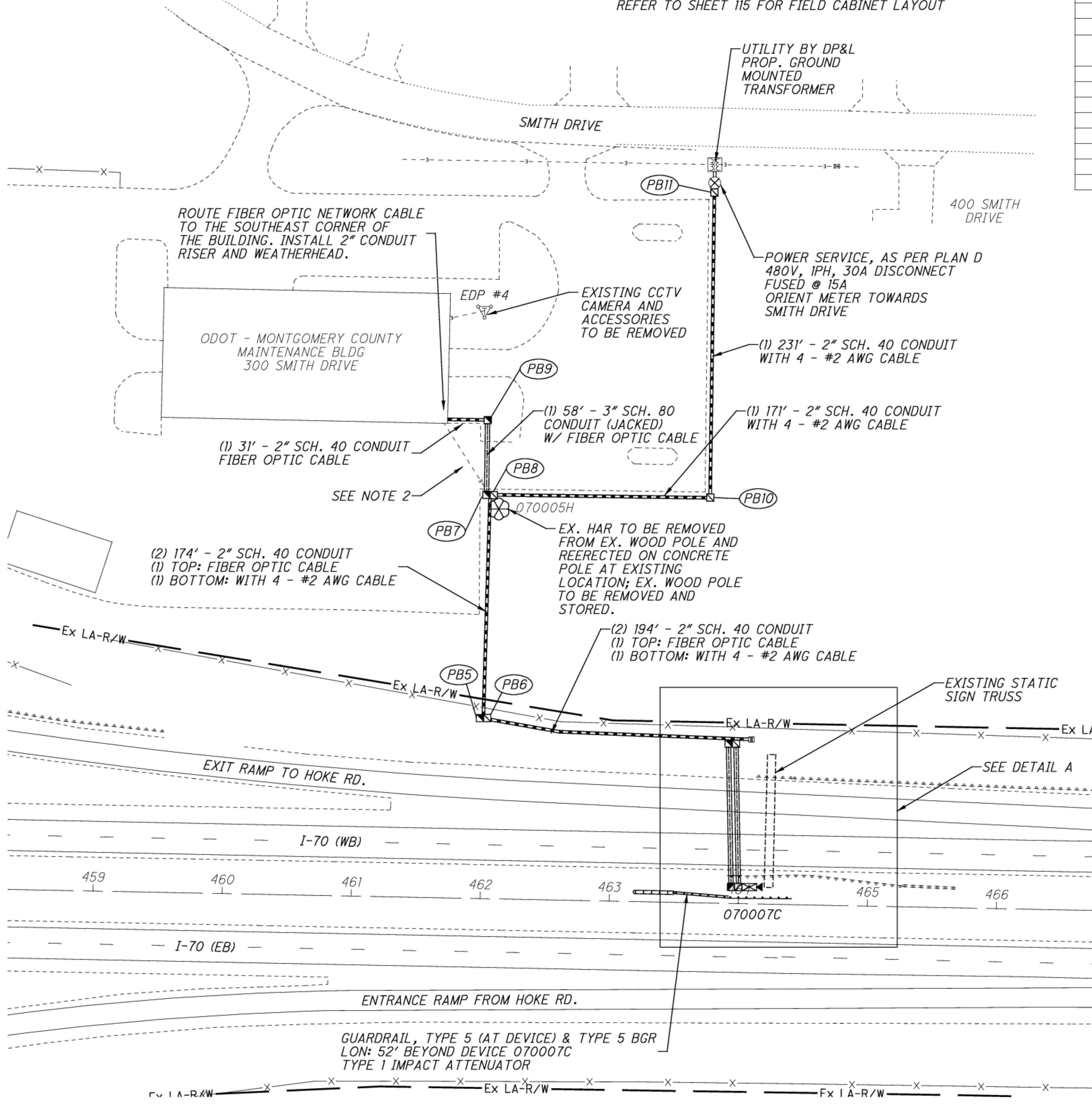
VAR-Dayton Springfield Freeway Management System

(PB1) - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 463+97.0, 12.5' LT.
(PB2) - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 463+97.0, 12.5' LT.
(PB3) - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 463+93.0, 126.5' LT.
(PB4) - PROP. PULL BOX, 725.08: 18", TYPE A. STA. 463+93.0, 126.5' LT.
(PB5) - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 461+99.5, 140.0' LT.
(PB6) - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 461+99.5, 140.0' LT.
(PB7) - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 462+01.5, 312.0' LT.
(PB8) - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 462+01.5, 312.0' LT.
(PB9) - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 461+98.5, 370.5' LT.
(PB10) - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 463+72.0, 314.0' LT.
(PB11) - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 463+71.0, 569.5' LT.

REFER TO SHEETS 7-8 FOR PULL BOX AND CONDUIT DETAILS
REFER TO SHEETS 9-10 FOR WORK PAD DETAILS
REFER TO SHEETS 11-15 FOR ELECTRICAL DETAILS
REFER TO SHEET 16 FOR COMMUNICATION SERVICE DETAILS
REFER TO SHEET 17 FOR TYPICAL HAR DETAILS
REFER TO SHEETS 18-19 FOR TYPICAL CCTV CAMERA POLE DETAILS
REFER TO SHEET 20 FOR POLE ORIENTATION CHART
REFER TO SHEET 114 FOR COMMUNICATIONS PLAN OVERVIEW
REFER TO SHEET 115 FOR FIELD CABINET LAYOUT

SUB-SUMMARY

ITEM	TOTAL	UNIT	DESCRIPTION
202	1	EACH	ANCHOR ASSEMBLY REMOVED, AS PER PLAN
606	63	FT	GUARDRAIL, TYPE 5
606	43	FT	GUARDRAIL, BARRIER DESIGN, TYPE 5
606	2	EACH	ANCHOR ASSEMBLY, TYPE T
606	1	EACH	IMPACT ATTENUATOR, TYPE 1 (BIDIRECTIONAL)
625	4010	FT	NO. 2 AWG 5000 VOLT DISTRIBUTION CABLE
625	1250	FT	CONDUIT, 2", 725.05, AS PER PLAN
625	290	FT	CONDUIT JACKED OR DRILLED, 3", AS PER PLAN
625	830	FT	TRENCH, 24" DEEP
625	6	EACH	PULL BOX, 725.08, 18", AS PER PLAN, TYPE A (ELECTRIC)
625	5	EACH	PULL BOX, MISC.: PULL BOX, 725.08, 32", TYPE B (TRAFFIC)
625	2	EACH	GROUND ROD
625	1	EACH	POWER SERVICE, AS PER PLAN D
631	1	EACH	SIGN LIGHTING, MISC.: DISCONNECT SWITCH, 60A
632	1	EACH	INTERCONNECT, MISC.: REMOVAL OF HIGHWAY ADVISORY RADIO ASSEMBLY AND REERECTION
632	1	EACH	REMOVAL OF MISC. TRAFFIC SIGNAL ITEM: REMOVAL OF EXISTING CCTV CAMERA ASSEMBLY AND STORAGE, AS PER PLAN
632	1	EACH	REMOVAL OF MISC. TRAFFIC SIGNAL ITEM: REMOVAL OF WOOD POLE AND STORAGE, AS PER PLAN
632	1	EACH	SIGNALIZATION, MISC.: CCTV IP - CAMERA SYSTEM, CISCO VSOM 4.2 COMPATIBLE, UNPRESSURIZED
632	1	EACH	SIGNALIZATION, MISC.: CCTV POLE, TYPE A (70 FT.), WITH LOWERING DEVICE
632	1	EACH	SIGNALIZATION, MISC.: CONCRETE POLE, HAR SUPPORT
632	1	EACH	SIGNALIZATION, MISC.: DEVICE WORK PAD, TYPE C
632	1	EACH	SIGNALIZATION, MISC.: TRANSFORMER, GENERAL PURPOSE, 7.5KVA, NON-VENTILATED TYPE
633	1	EACH	CONTROLLER ITEM, MISC.: FIELD EQUIPMENT CABINET, ITS CABINET
804	750	FT	FIBER OPTIC CABLE, MISC.: FIBER OPTIC CABLE, 12 PAIR

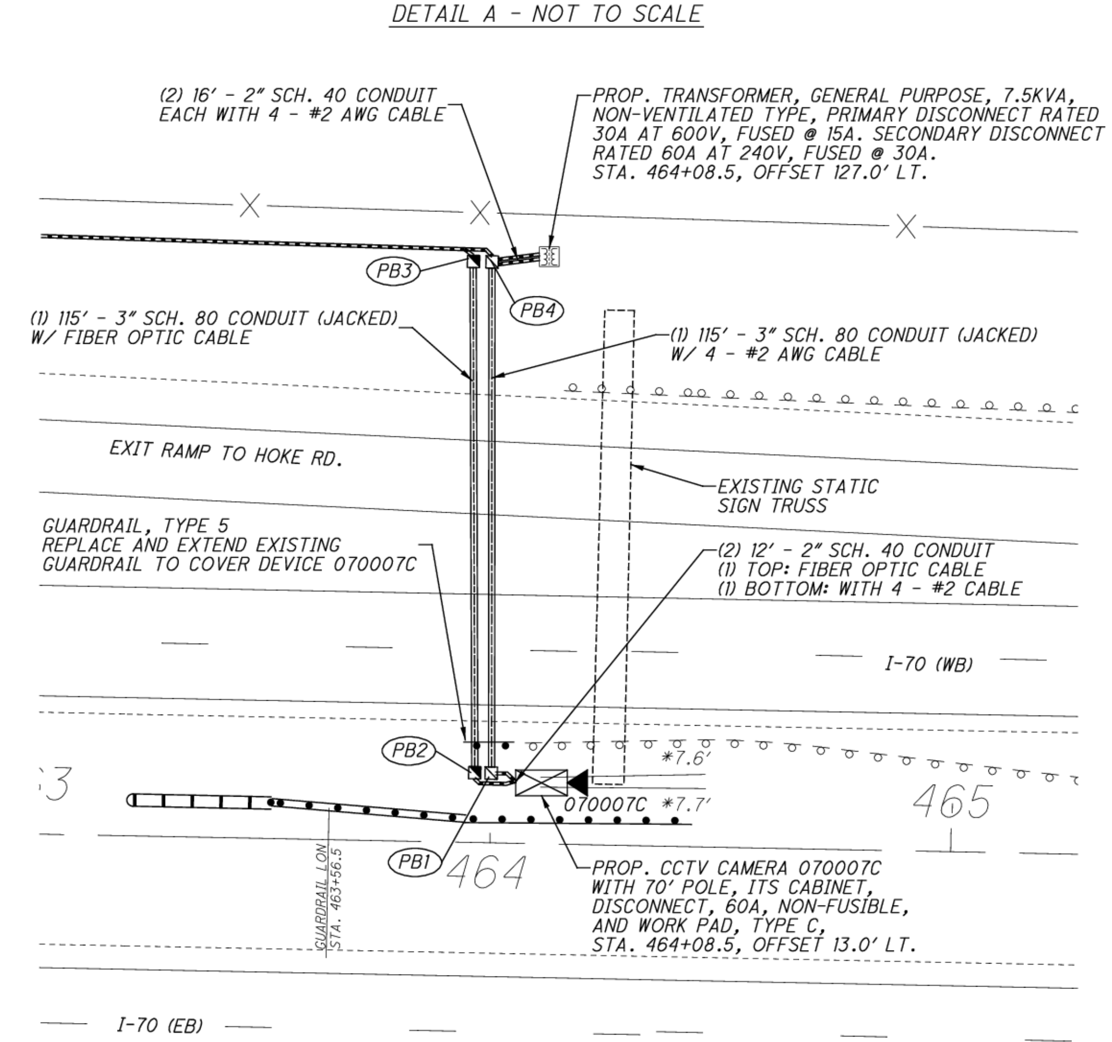


NOTES:

1. THE HAR CONTROLLER IS TO REMAIN LOCATED INSIDE THE ODOT HIGHWAY GARAGE.

2. AERIAL ANTENNA WIRE SHALL BE DISCONNECTED FROM HAR ASSEMBLY DURING RELOCATION FROM THE EXISTING WOOD POLE TO A NEW CONCRETE POLE IN THE SAME LOCATION. THE AERIAL ANTENNA WIRE SHALL BE RECONNECTED TO HAR ASSEMBLY ON CONCRETE POLE.

DETAIL A - NOT TO SCALE



* PROPOSED OFFSET BETWEEN DEVICE AND FACE OF GUARDRAIL.

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED RTM
CHECKED MJH

SITE PLAN #2 - MOT-70-26.49
I-70 - EAST OF HOKE RD INTERCHANGE

VAR-Dayton Springfield Freeway Management System

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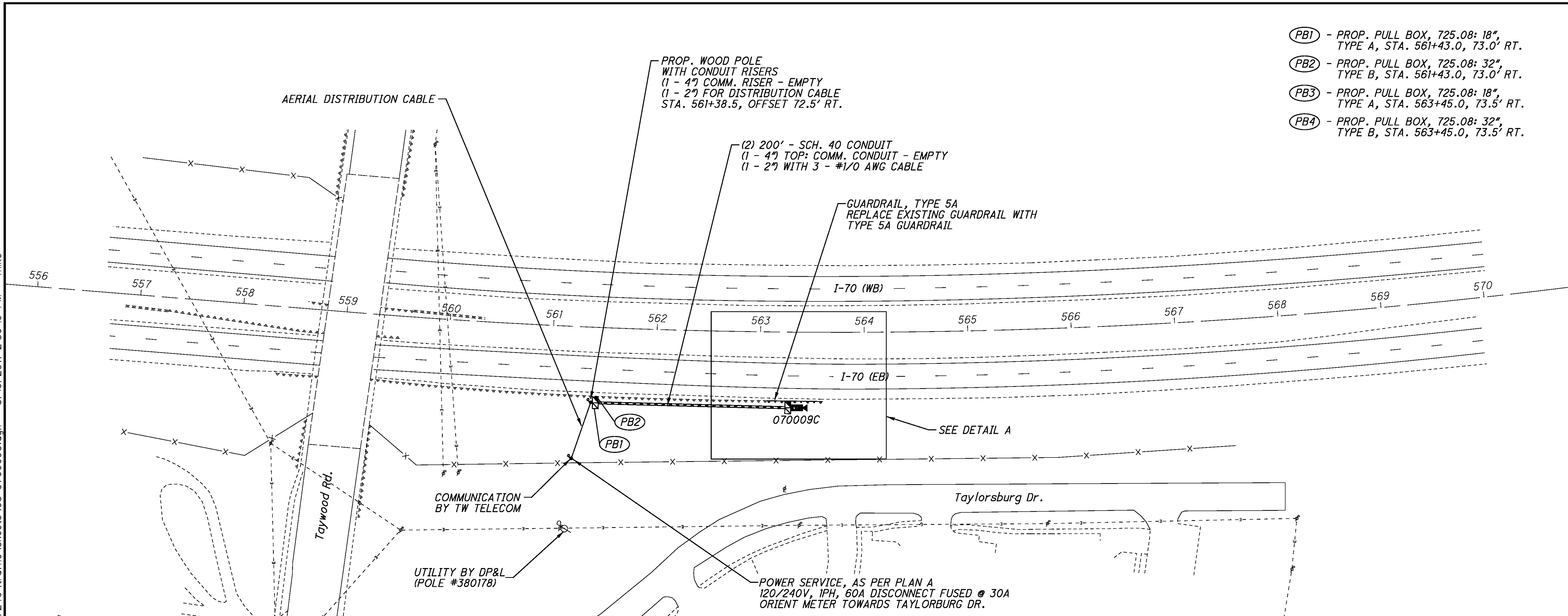


CALCULATED RTM
CHECKED MJH

ITEM	TOTAL	UNIT	SUB-SUMMARY DESCRIPTION
202	55	FT	GUARDRAIL REMOVED
202	1	EACH	ANCHOR ASSEMBLY REMOVED, AS PER PLAN
606	68	FT	GUARDRAIL, TYPE 5A
606	1	EACH	ANCHOR ASSEMBLY, TYPE T
625	800	FT	NO. 1/0 AWG 5000 VOLT DISTRIBUTION CABLE
625	200	FT	CONDUIT, 2", 725.05, AS PER PLAN
625	200	FT	CONDUIT, 4", 725.05, AS PER PLAN
625	200	FT	TRENCH, 24" DEEP
625	2	EACH	PULL BOX, 725.08, 18", AS PER PLAN, TYPE A (ELECTRIC)
625	2	EACH	PULL BOX, MISC.: PULL BOX, 725.08, 32", TYPE B (TRAFFIC)
625	1	EACH	GROUND ROD
625	1	EACH	POWER SERVICE, AS PER PLAN A
631	1	EACH	SIGN LIGHTING, MISC.: DISCONNECT SWITCH, 60A
632	1	EACH	SIGNALIZATION, MISC.: CCTV IP - CAMERA SYSTEM, CISCO VSOM 4.2 COMPATIBLE, UNPRESSURIZED
632	1	EACH	SIGNALIZATION, MISC.: CCTV POLE, TYPE A (70 FT.), WITH LOWERING DEVICE
632	1	EACH	SIGNALIZATION, MISC.: VEHICLE DETECTION UNIT
632	1	EACH	SIGNALIZATION, MISC.: DEVICE WORK PAD, TYPE D (SLOPED AREA DESIGN)
633	1	EACH	CONTROLLER ITEM, MISC.: FIELD EQUIPMENT CABINET, ITS CABINET

REFER TO SHEETS 7-8 FOR PULL BOX AND CONDUIT DETAILS

REFER TO SHEETS 9-10 FOR WORK PAD DETAILS

REFER TO SHEETS 11-15 FOR ELECTRICAL DETAILS

REFER TO SHEET 16 FOR COMMUNICATION SERVICE DETAILS

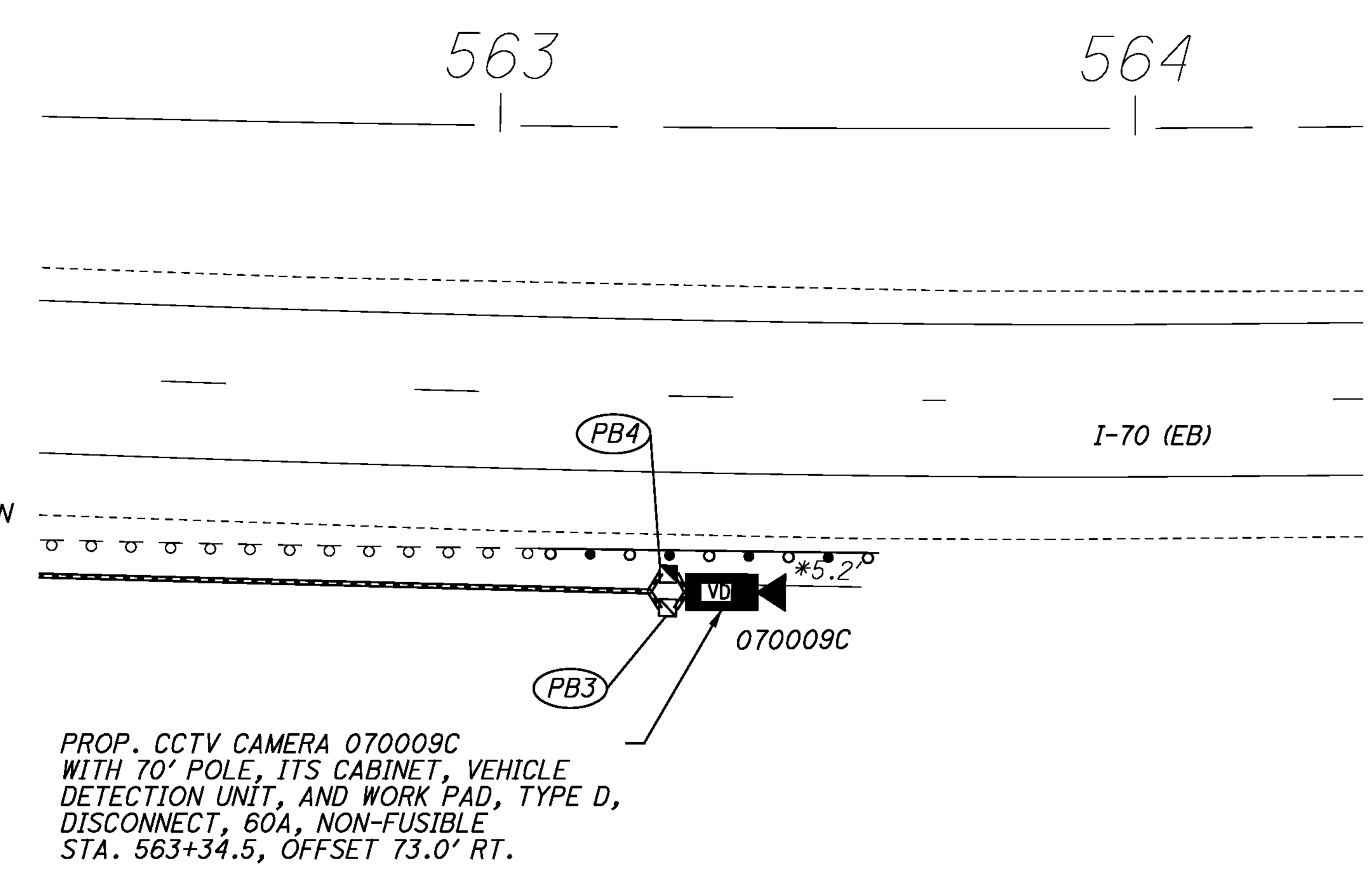
REFER TO SHEETS 18-19 FOR TYPICAL CCTV CAMERA POLE DETAILS

REFER TO SHEET 20 FOR POLE ORIENTATION CHART

REFER TO SHEET 114 FOR COMMUNICATIONS PLAN OVERVIEW

REFER TO SHEET 119 FOR FIELD CABINET LAYOUT

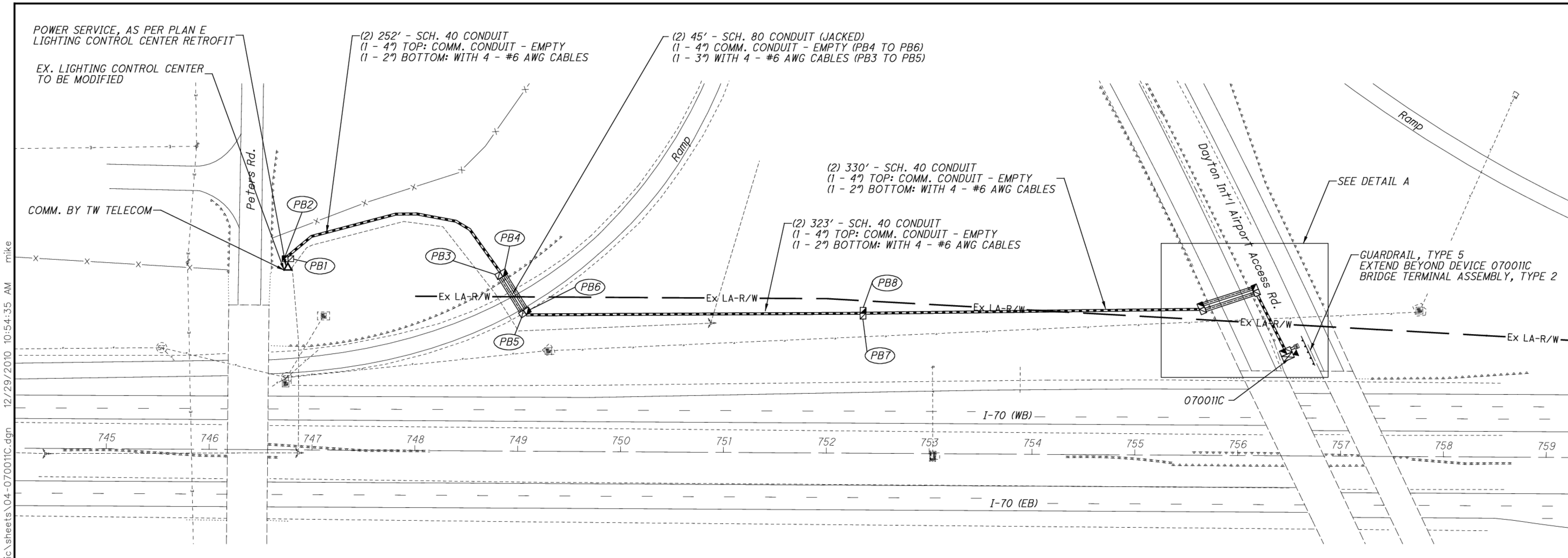
DETAIL A - NOT TO SCALE



* PROPOSED OFFSET BETWEEN DEVICE AND FACE OF GUARDRAIL.

SITE PLAN #3 - MOT-70-28.37
I-70 AND TAYWOOD RD

VAR-Dayton Springfield Freeway Management System

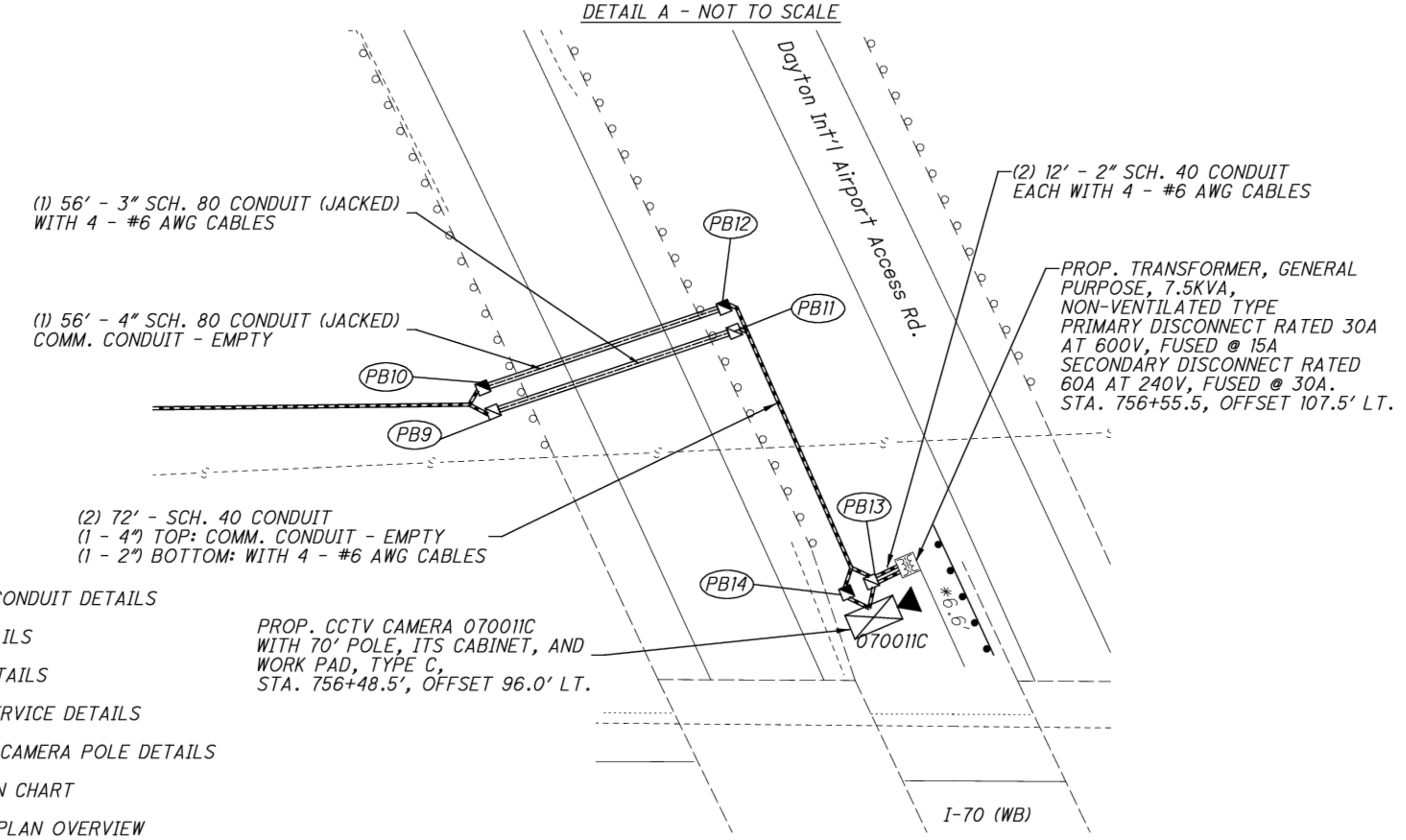


SUB-SUMMARY			
ITEM	TOTAL	UNIT	DESCRIPTION
606	32	FT	GUARDRAIL, TYPE 5
606	1	EACH	ANCHOR ASSEMBLY, TYPE T
606	1	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE 2
606	25	FT	GUARDRAIL, MISC.: GUARDRAIL REMOVED AND REPLACED
625	4770	FT	NO. 6 AWG 5000 VOLT DISTRIBUTION CABLE
625	1010	FT	CONDUIT, 2", 725.05, AS PER PLAN
625	980	FT	CONDUIT, 4", 725.05, AS PER PLAN
625	110	FT	CONDUIT JACKED OR DRILLED, 3", AS PER PLAN
625	110	FT	CONDUIT JACKED OR DRILLED, 4", AS PER PLAN
625	1000	FT	TRENCH, 24" DEEP
625	7	EACH	PULL BOX, 725.08, 18", AS PER PLAN, TYPE A (ELECTRIC)
625	7	EACH	PULL BOX, MISC.: PULL BOX, 725.08, 32", TYPE B (TRAFFIC)
625	1	EACH	GROUND ROD
625	1	EACH	POWER SERVICE, AS PER PLAN E (LIGHTING CONTROL CENTER MODIFIED)
632	1	EACH	SIGNALIZATION, MISC.: CCTV IP - CAMERA SYSTEM, CISCO VSOM 4.2 COMPATIBLE, UNPRESSURIZED
632	1	EACH	SIGNALIZATION, MISC.: CCTV POLE, TYPE A (70 FT.), WITH LOWERING DEVICE
632	1	EACH	SIGNALIZATION, MISC.: DEVICE WORK PAD, TYPE C
632	1	EACH	SIGNALIZATION, MISC.: TRANSFORMER, GENERAL PURPOSE, 7.5KVA, NON-VENTILATED TYPE
633	1	EACH	CONTROLLER ITEM, MISC.: FIELD EQUIPMENT CABINET, ITS CABINET

PB1 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 746+75.5, 201.5' LT.
PB2 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 746+75.5, 201.5' LT.
PB3 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 748+83.0, 171.5' LT.
PB4 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 748+83.0, 171.5' LT.
PB5 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 749+06.0, 134.5' LT.
PB6 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 749+06.0, 134.5' LT.
PB7 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 752+34.5, 136.0' LT.
PB8 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 752+34.5, 136.0' LT.
PB9 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 755+64.0, 142.5' LT.
PB10 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 755+64.0, 142.5' LT.
PB11 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 756+16.5, 160.5' LT.
PB12 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 756+16.5, 160.5' LT.
PB13 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 756+45.5, 102.5' LT.
PB14 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 756+45.5, 102.5' LT.

REFER TO SHEETS 7-8 FOR PULL BOX AND CONDUIT DETAILS
REFER TO SHEETS 9-10 FOR WORK PAD DETAILS
REFER TO SHEETS 11-15 FOR ELECTRICAL DETAILS
REFER TO SHEET 16 FOR COMMUNICATION SERVICE DETAILS
REFER TO SHEETS 18-19 FOR TYPICAL CCTV CAMERA POLE DETAILS
REFER TO SHEET 20 FOR POLE ORIENTATION CHART
REFER TO SHEET 114 FOR COMMUNICATIONS PLAN OVERVIEW
REFER TO SHEET 115 FOR FIELD CABINET LAYOUT

DETAIL A - NOT TO SCALE



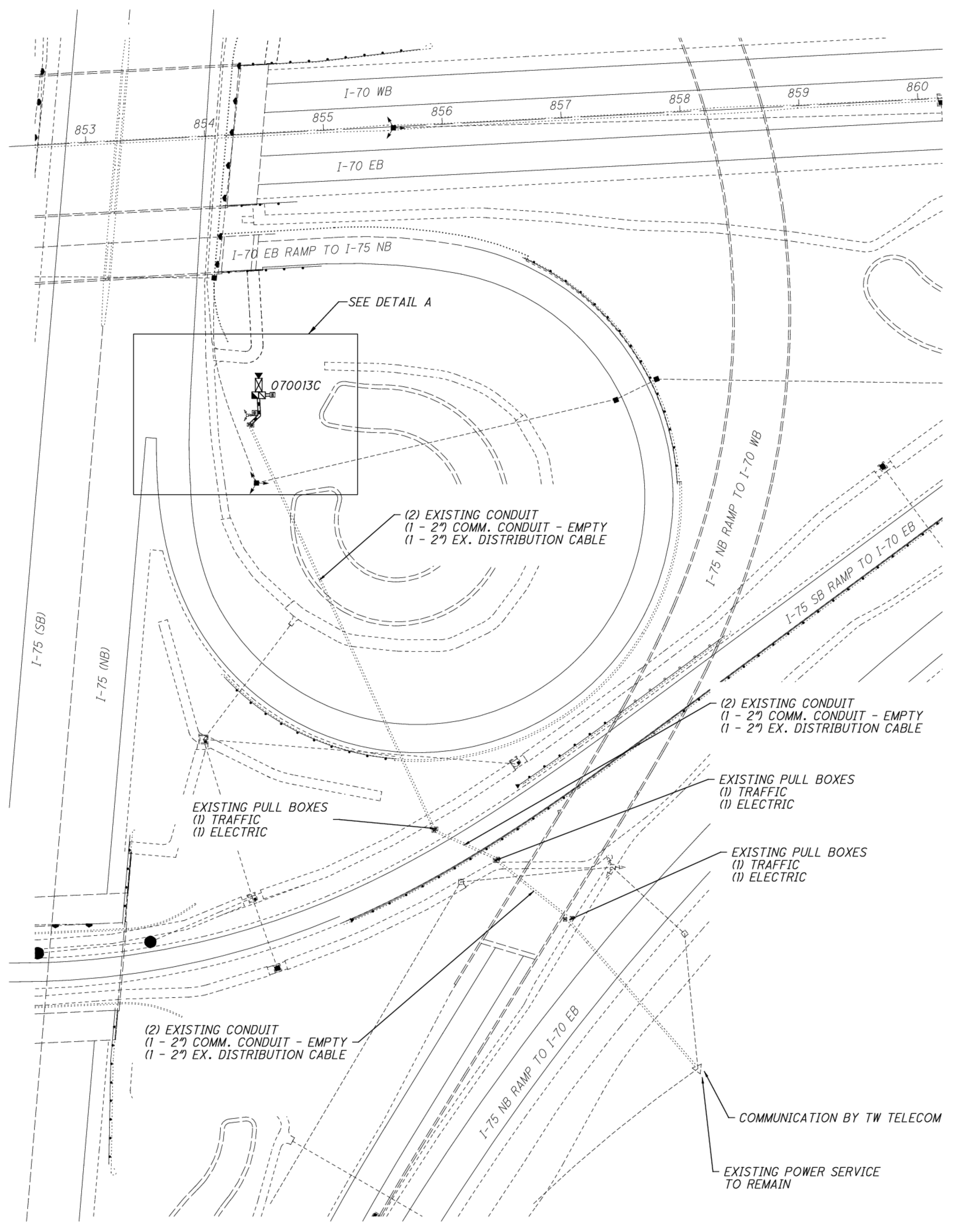
* PROPOSED OFFSET BETWEEN DEVICE AND FRONT OF GUARDRAIL.

CALCULATED RTM
CHECKED MJH

SITE PLAN #4 - MOT-70-32.09
I-70 AND DAYTON INT'L AIRPORT ACCESS RD

VAR-Dayton Springfield Freeway Management System

M:\2008 Projects\08033 ODOT Central\001 Dayton FMS\Plan Submissions\projects\VAR 77249\traffic\sheets\05-070013C.dgn 12/29/2010 10:54:37 AM mike



SUB-SUMMARY			
ITEM	TOTAL	UNIT	DESCRIPTION
202	170	FT	EXISTING CONDUIT CLEANED, AS PER PLAN
202	1	EACH	REMOVAL, MISC.: TRANSFORMER AND EQUIPMENT STAND REMOVED
625	440	FT	NO. 2/0 AWG 5000 VOLT DISTRIBUTION CABLE
625	60	FT	CONDUIT, 2", 725.05, AS PER PLAN
625	40	FT	CONDUIT, 4", 725.05, AS PER PLAN
625	45	FT	CONDUIT, MISC.: EXISTING CONDUIT REPAIR
625	50	FT	TRENCH, 24" DEEP
625	1	EACH	PULL BOX, 725.08, 18", AS PER PLAN, TYPE A (ELECTRIC)
625	1	EACH	PULL BOX, MISC.: PULL BOX, 725.08, 32", TYPE B (TRAFFIC)
625	1	EACH	PULL BOX, MISC.: EXISTING PULL BOX REPAIRED
625	1	EACH	GROUND ROD
625	5	EACH	PULL BOX CLEANED
625	1	EACH	LIGHT TOWER REMOVED
625	2	EACH	LUMINAIRE REMOVED
625	1	EACH	LIGHT TOWER FOUNDATION REMOVED
625	1	EACH	LIGHTING, MISC.: REUSE OF ELECTRICAL CIRCUIT
632	4	EACH	REMOVAL OF MISC. TRAFFIC SIGNAL ITEM: REMOVAL OF WEB CAMERA INSTALLATION AND STORAGE, AS PER PLAN
632	1	EACH	SIGNALIZATION, MISC.: CCTV IP - CAMERA SYSTEM, CISCO VSOM 4.2 COMPATIBLE, UNPRESSURIZED
632	1	EACH	SIGNALIZATION, MISC.: CCTV POLE, TYPE B (80 FT.), WITH LOWERING DEVICE
632	1	EACH	SIGNALIZATION, MISC.: DEVICE WORK PAD, TYPE C
632	1	EACH	SIGNALIZATION MISC.: TRANSFORMER, GENERAL PURPOSE, 7.5KVA, NON-VENTILATED TYPE
633	1	EACH	CONTROLLER ITEM, MISC.: FIELD EQUIPMENT CABINET, ITS CABINET

(PB1) - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 854+34.0, 219.0' RT.

(PB2) - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 854+34.0, 219.0' RT.

REFER TO SHEETS 7-8 FOR PULL BOX AND CONDUIT DETAILS

REFER TO SHEETS 9-10 FOR WORK PAD DETAILS

REFER TO SHEETS 11-15 FOR ELECTRICAL DETAILS

REFER TO SHEET 16 FOR COMMUNICATION SERVICE DETAILS

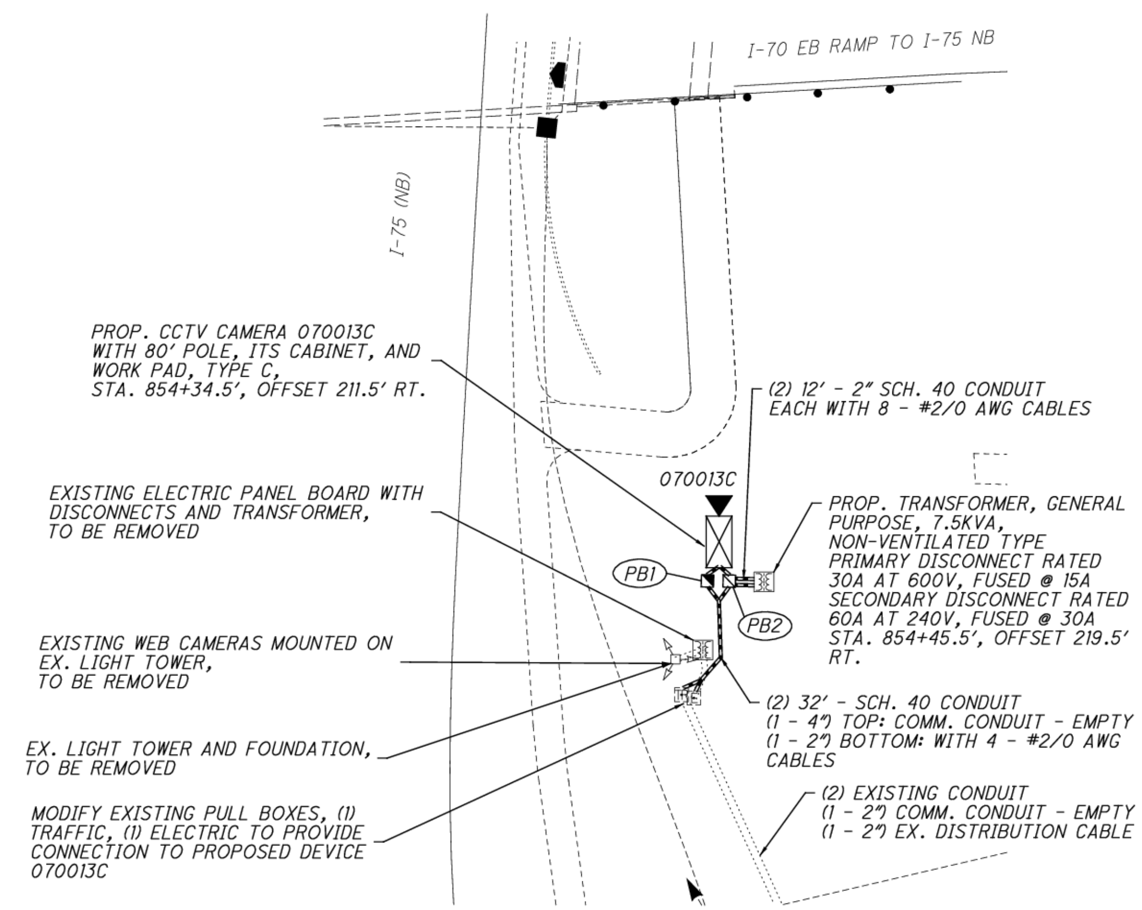
REFER TO SHEETS 18-19 FOR TYPICAL CCTV CAMERA POLE DETAILS

REFER TO SHEET 20 FOR POLE ORIENTATION CHART

REFER TO SHEET 114 FOR COMMUNICATIONS PLAN OVERVIEW

REFER TO SHEET 115 FOR FIELD CABINET LAYOUT

DETAIL A - NOT TO SCALE



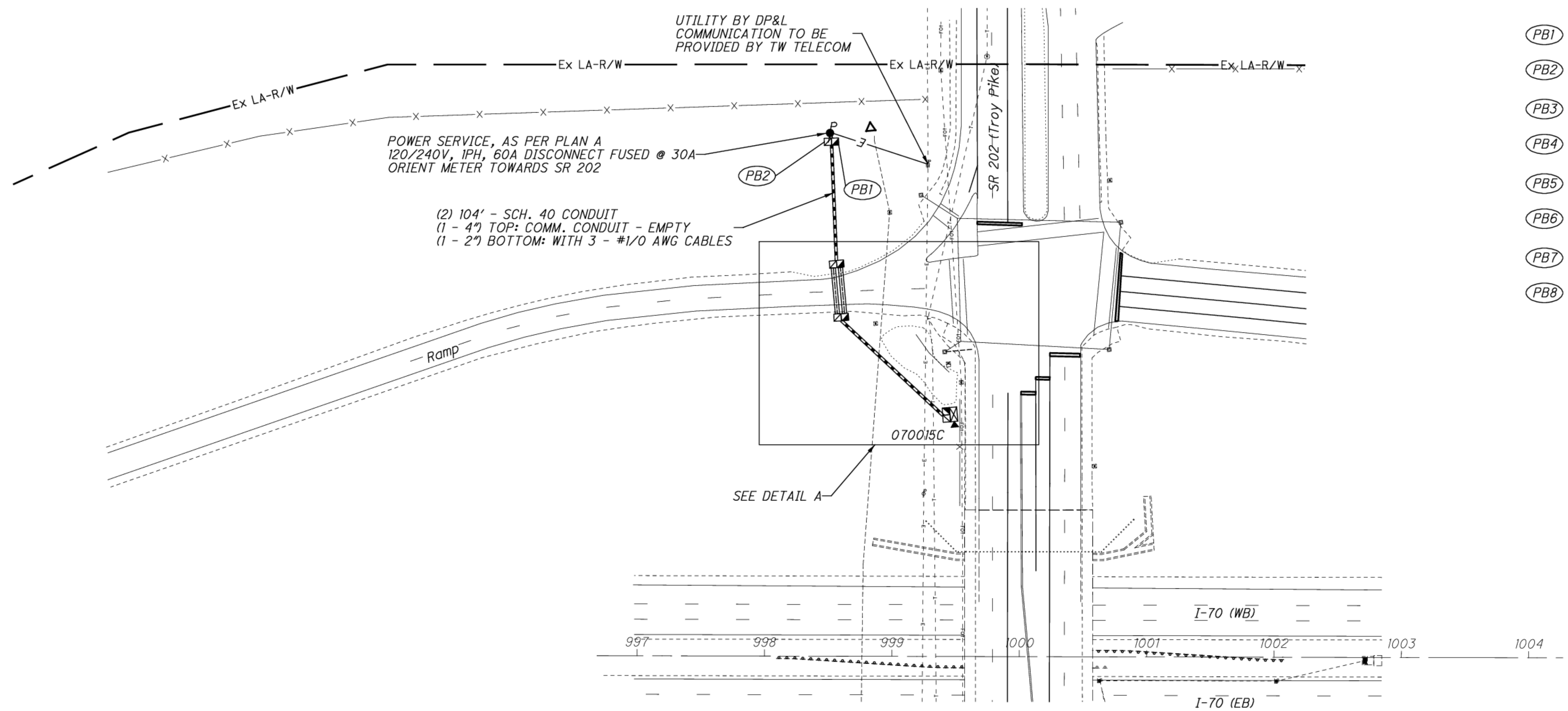
N

0 25 50 100
HORIZONTAL SCALE IN FEET

CALCULATED RTM
CHECKED MJH

SITE PLAN #5 - MOT-70-33.89
I-70 AND I-75

VAR-Dayton Springfield Freeway Management System



PB1 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 998+51.5, 404.0' LT.

PB2 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 998+51.5, 404.0' LT.

PB3 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 998+56.0, 308.0' LT.

PB4 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 998+56.0, 308.0' LT.

PB5 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 998+60.0, 266.0' LT.

PB6 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 998+60.0, 266.0' LT.

PB7 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 999+42.0, 189.5' LT.

PB8 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 999+42.0, 189.5' LT.

SUB-SUMMARY

ITEM	TOTAL	UNIT	DESCRIPTION
606	24	FT	FENCE, MISC.: FENCE REMOVED AND REPLACED
625	1030	FT	NO. 1/0 AWG 5000 VOLT DISTRIBUTION CABLE
625	230	FT	CONDUIT, 2", 725.05, AS PER PLAN
625	230	FT	CONDUIT, 4", 725.05, AS PER PLAN
625	50	FT	CONDUIT JACKED OR DRILLED, 3", AS PER PLAN
625	50	FT	CONDUIT JACKED OR DRILLED, 4", AS PER PLAN
625	230	FT	TRENCH, 24" DEEP
625	4	EACH	PULL BOX, 725.08, 18", AS PER PLAN, TYPE A (ELECTRIC)
625	4	EACH	PULL BOX, MISC.: PULL BOX, 725.08, 32", TYPE B (TRAFFIC)
625	1	EACH	GROUND ROD
625	1	EACH	POWER SERVICE, AS PER PLAN A
631	1	EACH	SIGN LIGHTING, MISC.: DISCONNECT SWITCH, 60A
632	1	EACH	REMOVAL OF MISC. TRAFFIC SIGNAL ITEM: REMOVAL OF WEB CAMERA INSTALLATION AND STORAGE, AS PER PLAN
632	1	EACH	SIGNALIZATION, MISC.: CCTV IP - CAMERA SYSTEM, CISCO VSOM 4.2 COMPATIBLE, UNPRESSURIZED
632	1	EACH	SIGNALIZATION, MISC.: CCTV POLE, TYPE A (70 FT.), WITH LOWERING DEVICE
632	1	EACH	SIGNALIZATION, MISC.: DEVICE WORK PAD, TYPE C
633	1	EACH	CONTROLLER ITEM, MISC.: FIELD EQUIPMENT CABINET, ITS CABINET

REFER TO SHEETS 7-8 FOR PULL BOX AND CONDUIT DETAILS

REFER TO SHEETS 9-10 FOR WORK PAD DETAILS

REFER TO SHEETS 11-15 FOR ELECTRICAL DETAILS

REFER TO SHEET 16 FOR COMMUNICATION SERVICE DETAILS

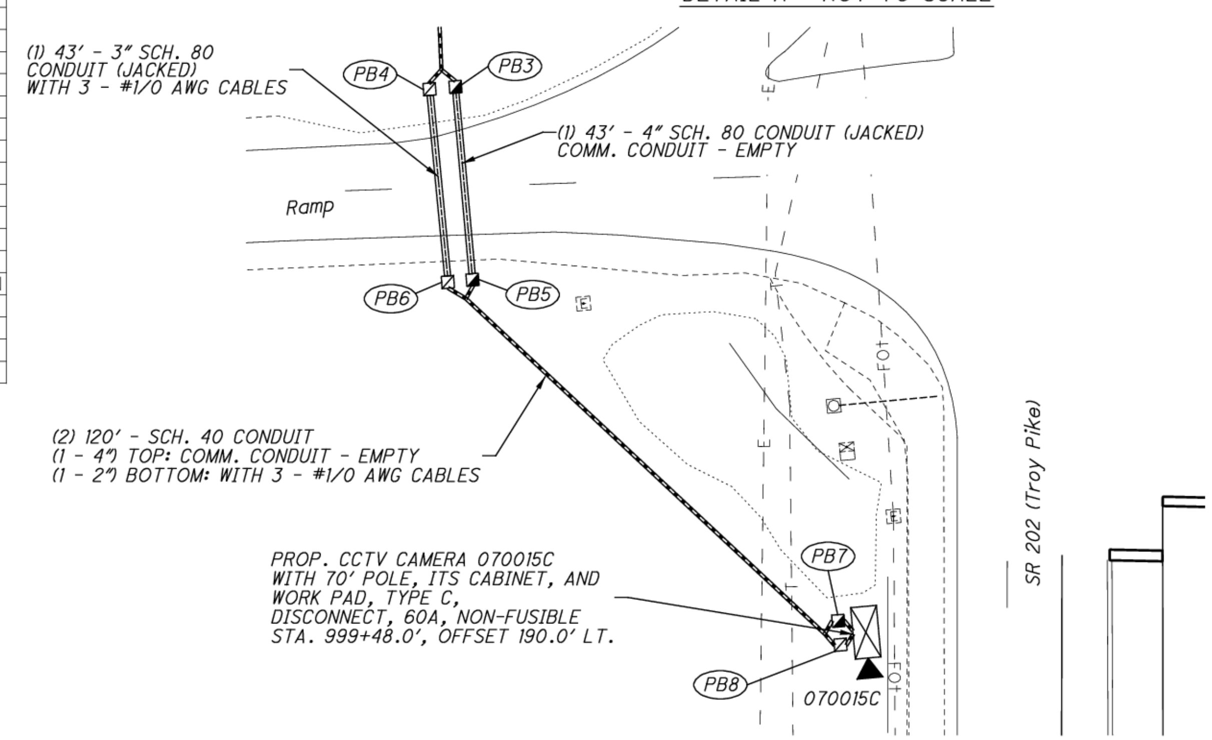
REFER TO SHEETS 18-19 FOR TYPICAL CCTV CAMERA POLE DETAILS

REFER TO SHEET 20 FOR POLE ORIENTATION CHART

REFER TO SHEET 114 FOR COMMUNICATIONS PLAN OVERVIEW

REFER TO SHEET 115 FOR FIELD CABINET LAYOUT

DETAIL A - NOT TO SCALE

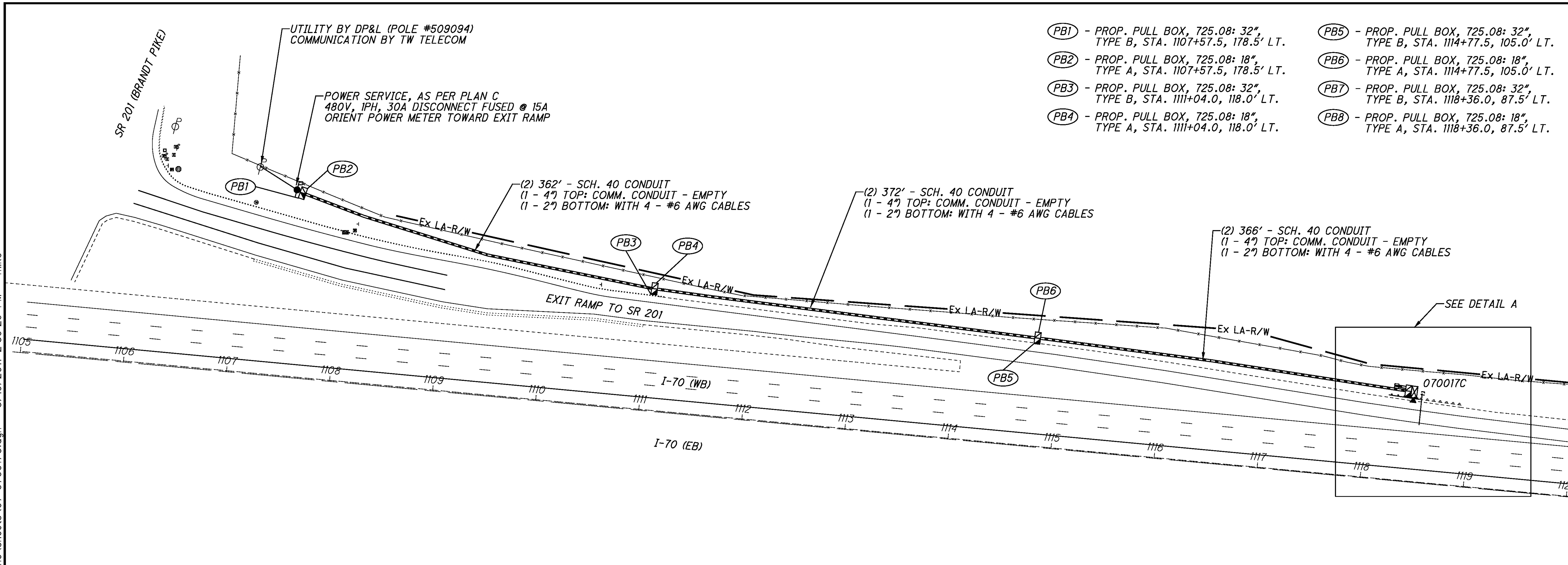


HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED RTM | CHECKED MJH

SITE PLAN #6 - MOT-70-36.66
I-70 AND SR-202

VAR-Dayton Springfield Freeway Management System



SUB-SUMMARY			
ITEM	TOTAL	UNIT	DESCRIPTION
202	18	FT	GUARDRAIL REMOVED
202	1	EACH	ANCHOR ASSEMBLY REMOVED, AS PER PLAN
606	29	FT	GUARDRAIL, TYPE 5A
606	1	EACH	ANCHOR ASSEMBLY, TYPE T
625	4780	FT	NO. 6 AWG 5000 VOLT DISTRIBUTION CABLE
625	1130	FT	CONDUIT, 2", 725.05, AS PER PLAN
625	1100	FT	CONDUIT, 4", 725.05, AS PER PLAN
625	1120	FT	TRENCH, 24" DEEP
625	4	EACH	PULL BOX, 725.08, 18", AS PER PLAN, TYPE A (ELECTRIC)
625	4	EACH	PULL BOX, MISC.: PULL BOX, 725.08, 32", TYPE B (TRAFFIC)
625	1	EACH	GROUND ROD
625	1	EACH	POWER SERVICE, AS PER PLAN C
632	1	EACH	SIGNALIZATION, MISC.: CCTV IP - CAMERA SYSTEM, CISCO VSOM 4.2 COMPATIBLE, UNPRESSURIZED
632	1	EACH	SIGNALIZATION, MISC.: CCTV POLE, TYPE A (70 FT.), WITH LOWERING DEVICE
632	1	EACH	SIGNALIZATION, MISC.: DEVICE WORK PAD, TYPE D (SLOPED AREA DESIGN)
632	1	EACH	SIGNALIZATION, MISC.: TRANSFORMER, GENERAL PURPOSE, 7.5KVA, NON-VENTILATED TYPE
633	1	EACH	CONTROLLER ITEM, MISC.: FIELD EQUIPMENT CABINET, ITS CABINET

REFER TO SHEETS 7-8 FOR PULL BOX AND CONDUIT DETAILS

REFER TO SHEETS 9-10 FOR WORK PAD DETAILS

REFER TO SHEETS 11-15 FOR ELECTRICAL DETAILS

REFER TO SHEET 16 FOR COMMUNICATION SERVICE DETAILS

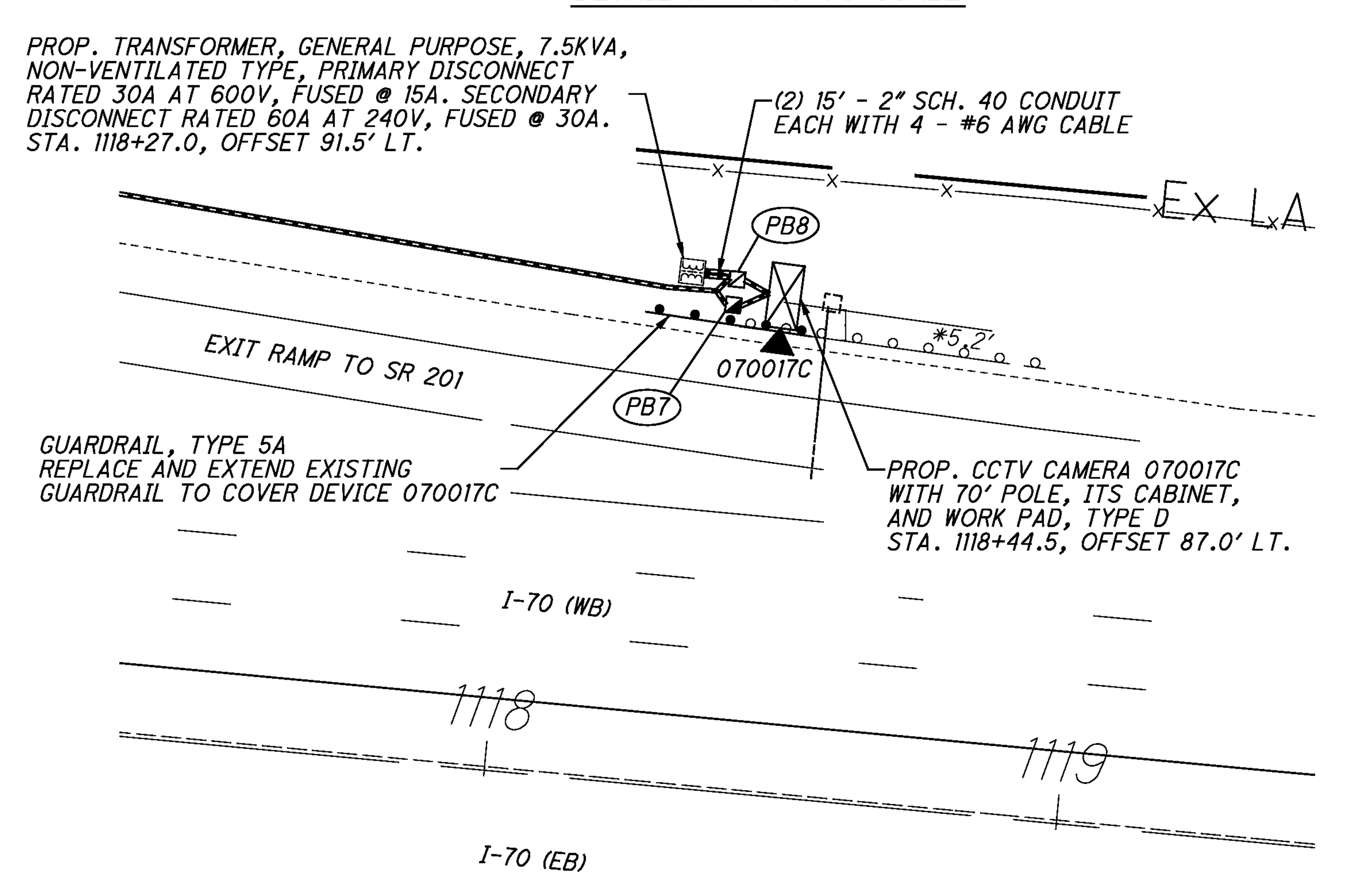
REFER TO SHEETS 18-19 FOR TYPICAL CCTV CAMERA POLE DETAILS

REFER TO SHEET 20 FOR POLE ORIENTATION CHART

REFER TO SHEET 114 FOR COMMUNICATIONS PLAN OVERVIEW

REFER TO SHEET 115 FOR FIELD CABINET LAYOUT

DETAIL A - NOT TO SCALE

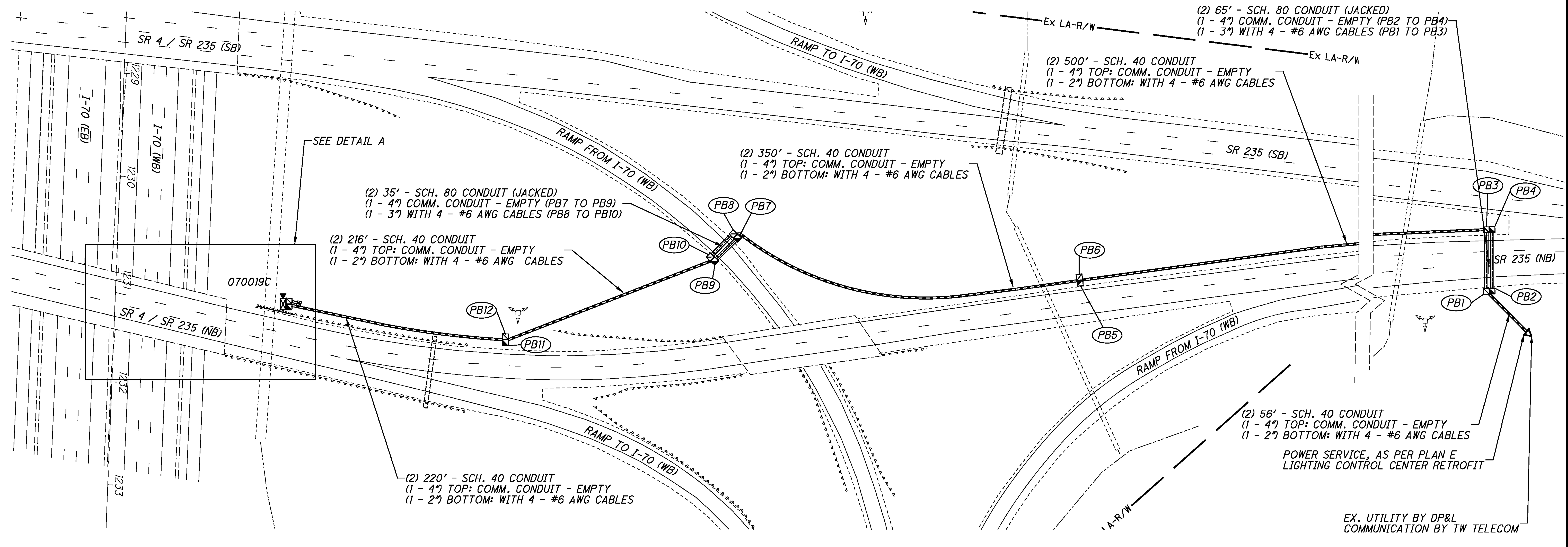


* PROPOSED OFFSET BETWEEN DEVICE AND FRONT OF GUARDRAIL.

CALCULATED RTM
CHECKED MJH

SITE PLAN #7 - MOT-70-38.89
I-75 AND SR-201

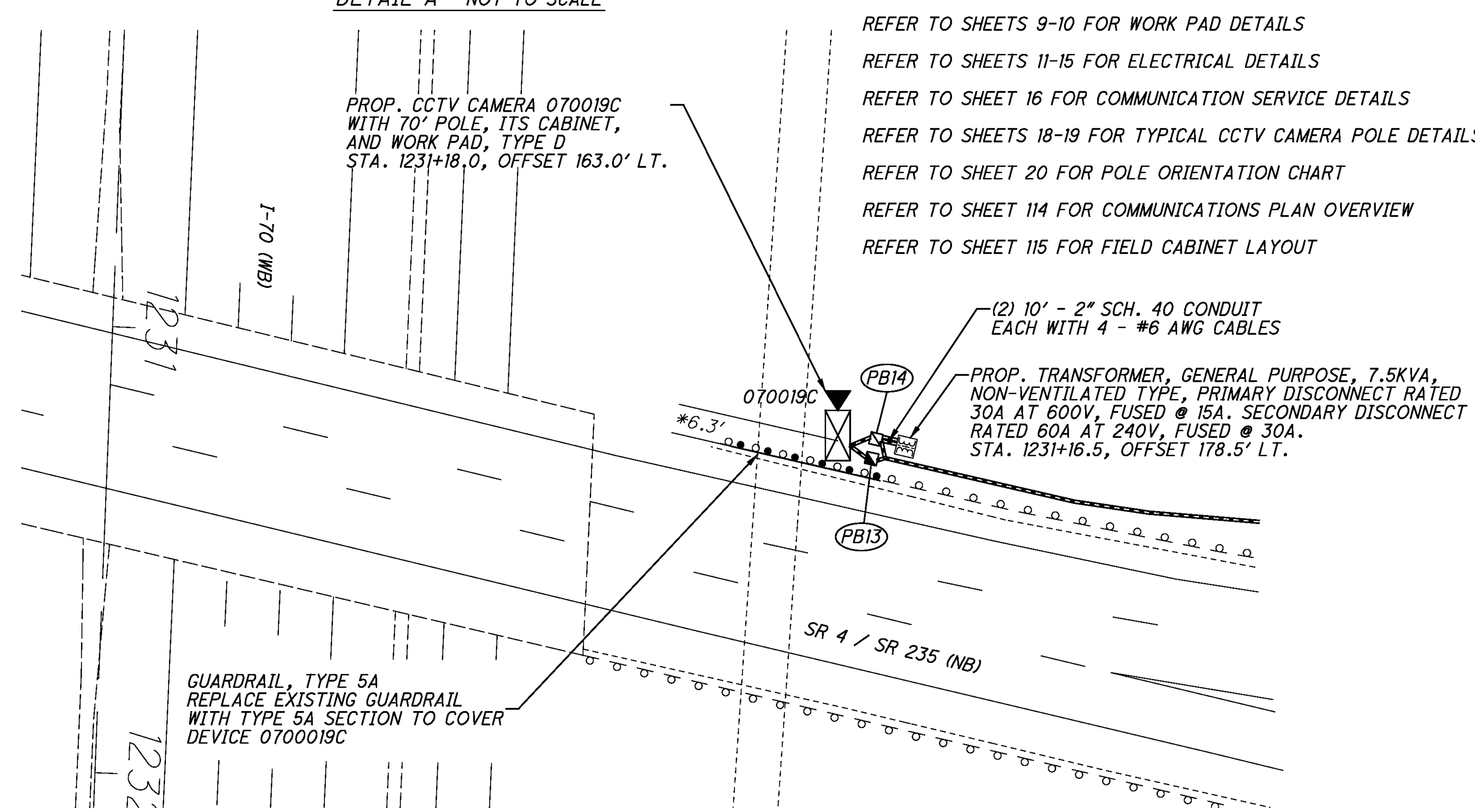
VAR-Dayton Springfield Freeway Management System



SUB-SUMMARY			
ITEM	TOTAL	UNIT	DESCRIPTION
202	38	FT	GUARDRAIL REMOVED
606	38	FT	GUARDRAIL, TYPE 5A
606	1	EACH	ANCHOR ASSEMBLY, TYPE T
625	6170	FT	NO. 6 AWG 5000 VOLT DISTRIBUTION CABLE
625	1370	FT	CONDUIT, 2", 725.05, AS PER PLAN
625	1350	FT	CONDUIT, 4", 725.05, AS PER PLAN
625	100	FT	CONDUIT JACKED OR DRILLED, 3", AS PER PLAN
625	100	FT	CONDUIT JACKED OR DRILLED, 4", AS PER PLAN
625	1360	FT	TRENCH, 24" DEEP
625	7	EACH	PULL BOX, 725.08, 18", AS PER PLAN, TYPE A (ELECTRIC)
625	7	EACH	PULL BOX, MISC.: PULL BOX, 725.08, 32", TYPE B (TRAFFIC)
625	1	EACH	GROUND ROD
625	1	EACH	POWER SERVICE, AS PER PLAN E (LIGHTING CONTROL CENTER MODIFIED)
632	1	EACH	SIGNALIZATION, MISC.: CCTV IP - CAMERA SYSTEM, CISCO VSOM 4.2 COMPATIBLE, UNPRESSURIZED
632	1	EACH	SIGNALIZATION, MISC.: CCTV POLE, TYPE A (70 FT.), WITH LOWERING DEVICE
632	1	EACH	SIGNALIZATION, MISC.: DEVICE WORK PAD, TYPE D (SLOPED AREA DESIGN)
632	1	EACH	SIGNALIZATION, MISC.: TRANSFORMER, GENERAL PURPOSE, 7.5KVA, NON-VENTILATED TYPE
633	1	EACH	CONTROLLER ITEM, MISC.: FIELD EQUIPMENT CABINET, ITS CABINET

PB1 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 1230+55.5, 1430.5' LT.
PB2 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 1230+55.5, 1430.5' LT.
PB3 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 1229+95.5, 1428.0' LT.
PB4 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 1229+95.5, 1428.0' LT.
PB5 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 1230+64.5, 936.0' LT.
PB6 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 1230+64.5, 936.0' LT.
PB7 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 1230+34.5, 600.0' LT.
PB8 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 1230+34.5, 600.0' LT.
PB9 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 1230+57.5, 578.0' LT.
PB10 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 1230+57.5, 578.0' LT.
PB11 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 1231+44.0, 380.5' LT.
PB12 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 1231+44.0, 380.5' LT.
PB13 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 1231+18.5, 172.0' LT.
PB14 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 1231+18.5, 172.0' LT.

DETAIL A - NOT TO SCALE



REFER TO SHEETS 7-8 FOR PULL BOX AND CONDUIT DETAILS
REFER TO SHEETS 9-10 FOR WORK PAD DETAILS
REFER TO SHEETS 11-15 FOR ELECTRICAL DETAILS
REFER TO SHEET 16 FOR COMMUNICATION SERVICE DETAILS
REFER TO SHEETS 18-19 FOR TYPICAL CCTV CAMERA POLE DETAILS
REFER TO SHEET 20 FOR POLE ORIENTATION CHART
REFER TO SHEET 114 FOR COMMUNICATIONS PLAN OVERVIEW
REFER TO SHEET 115 FOR FIELD CABINET LAYOUT

* PROPOSED OFFSET BETWEEN DEVICE AND FRONT OF GUARDRAIL.

N

0 25 50 100
HORIZONTAL SCALE IN FEET

CALCULATED RTM
CHECKED MJH

SITE PLAN #8 - MOT-70-41.05
I-70 AND SR-4/SR-235

VAR-Dayton Springfield Freeway Management System

SUB-SUMMARY			
ITEM	TOTAL	UNIT	DESCRIPTION
606	25	FT	GUARDRAIL, MISC.: GUARDRAIL REMOVED AND REPLACED
625	3440	FT	DISTRIBUTION CABLE, MISC.: NO. 8 AWG 5000 VOLT DISTRIBUTION CABLE
625	650	FT	CONDUIT, 2", 725.05, AS PER PLAN
625	630	FT	CONDUIT, 4", 725.05, AS PER PLAN
625	150	FT	CONDUIT JACKED OR DRILLED, 3", AS PER PLAN
625	150	FT	CONDUIT JACKED OR DRILLED, 4", AS PER PLAN
625	640	FT	TRENCH, 24" DEEP
625	7	EACH	PULL BOX, 725.08, 18", AS PER PLAN, TYPE A (ELECTRIC)
625	7	EACH	PULL BOX, MISC.: PULL BOX, 725.08, 32", TYPE B (TRAFFIC)
625	1	EACH	GROUND ROD
625	1	EACH	POWER SERVICE, AS PER PLAN C
632	1	EACH	SIGNALIZATION, MISC.: CCTV IP - CAMERA SYSTEM, CISCO VSOM 4.2 COMPATIBLE, UNPRESSURIZED
632	1	EACH	SIGNALIZATION, MISC.: CCTV POLE, TYPE A (70 FT.), WITH LOWERING DEVICE
632	1	EACH	SIGNALIZATION, MISC.: DEVICE WORK PAD, TYPE C
632	1	EACH	SIGNALIZATION, MISC.: TRANSFORMER, GENERAL PURPOSE, 7.5KVA, NON-VENTILATED TYPE
633	1	EACH	CONTROLLER ITEM, MISC.: FIELD EQUIPMENT CABINET, ITS CABINET

REFER TO SHEETS 7-8 FOR PULL BOX AND CONDUIT DETAILS

REFER TO SHEETS 9-10 FOR WORK PAD DETAILS

REFER TO SHEETS 11-15 FOR ELECTRICAL DETAILS

REFER TO SHEET 16 FOR COMMUNICATION SERVICE DETAILS

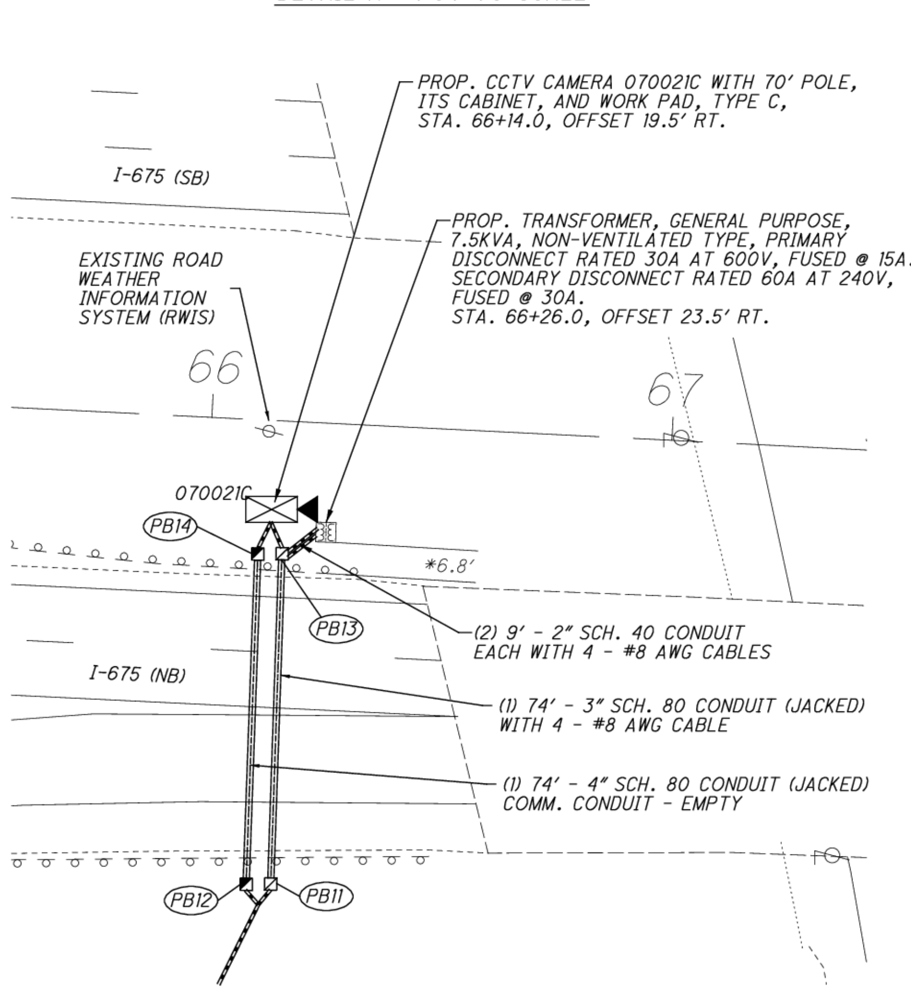
REFER TO SHEETS 18-19 FOR TYPICAL CCTV CAMERA POLE DETAILS

REFER TO SHEET 20 FOR POLE ORIENTATION CHART

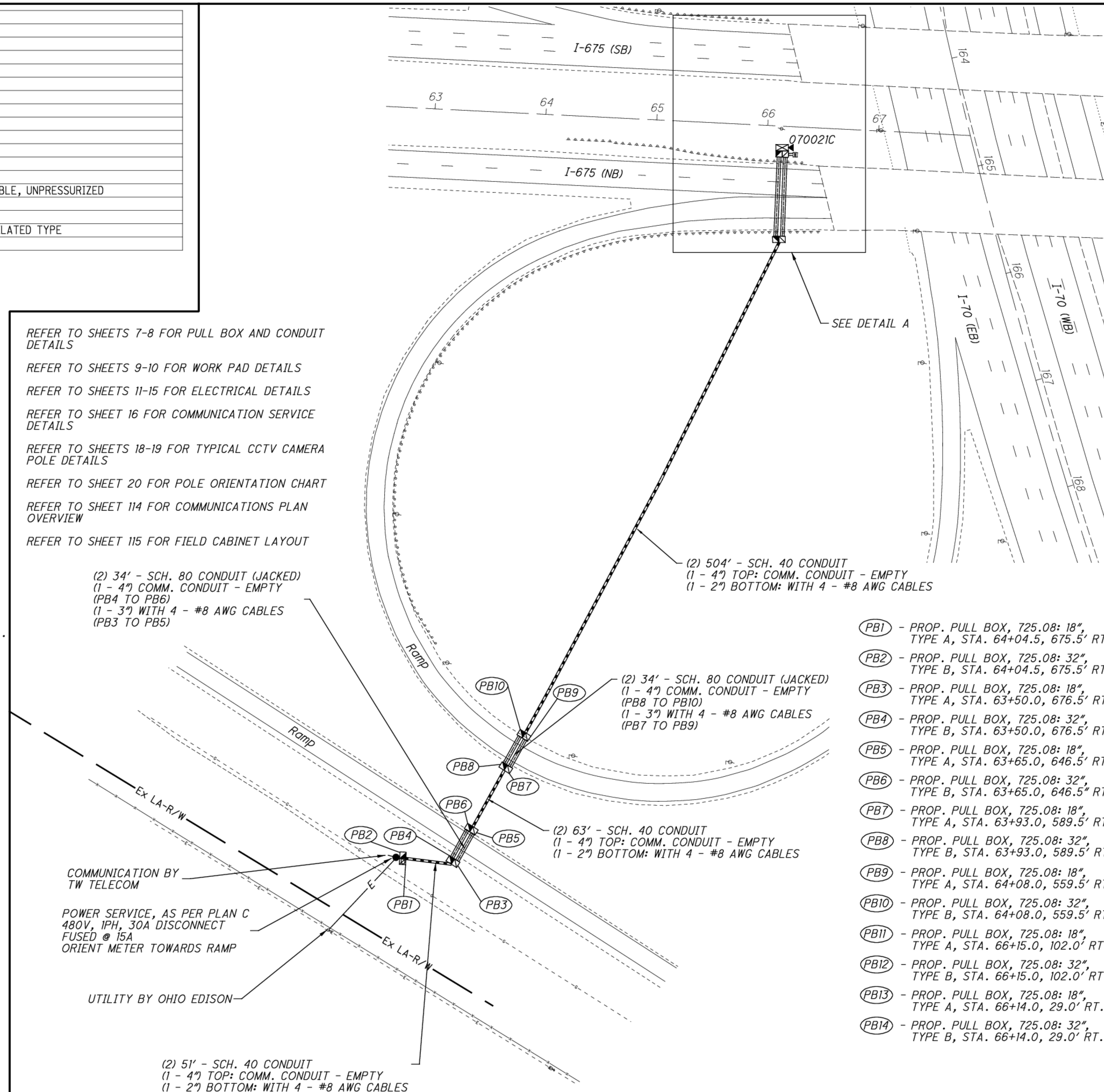
REFER TO SHEET 114 FOR COMMUNICATIONS PLAN OVERVIEW

REFER TO SHEET 115 FOR FIELD CABINET LAYOUT

DETAIL A - NOT TO SCALE



* PROPOSED OFFSET BETWEEN DEVICE AND FRONT OF GUARDRAIL.



PB1 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 64+04.5, 675.5' RT.
PB2 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 64+04.5, 675.5' RT.
PB3 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 63+50.0, 676.5' RT.
PB4 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 63+50.0, 676.5' RT.
PB5 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 63+65.0, 646.5' RT.
PB6 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 63+65.0, 646.5" RT.
PB7 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 63+93.0, 589.5' RT.
PB8 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 63+93.0, 589.5' RT.
PB9 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 64+08.0, 559.5' RT.
PB10 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 64+08.0, 559.5' RT.
PB11 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 66+15.0, 102.0' RT.
PB12 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 66+15.0, 102.0' RT.
PB13 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 66+14.0, 29.0' RT.
PB14 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 66+14.0, 29.0' RT.

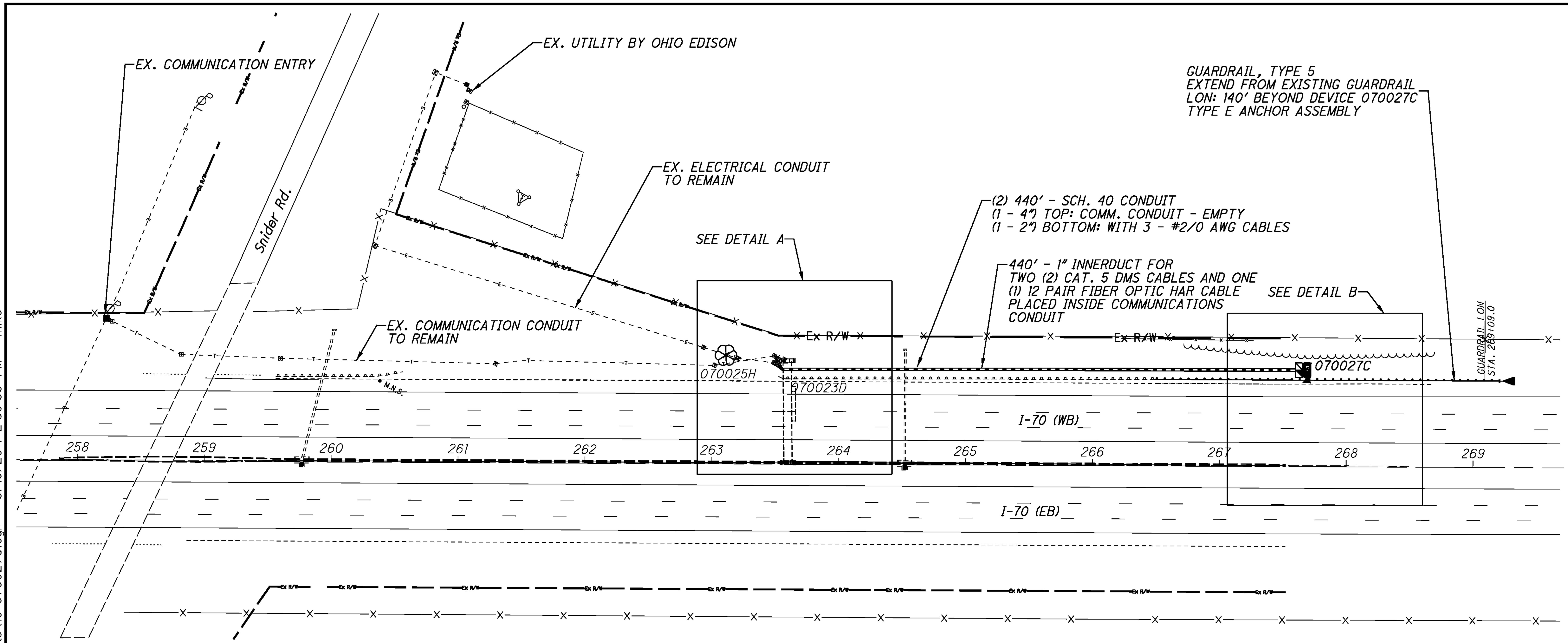
N

0 25 50 100
HORIZONTAL SCALE IN FEET

CALCULATED RTM
CHECKED MJH

SITE PLAN #9 - CLA-70-44.33
I-70 AND I-675

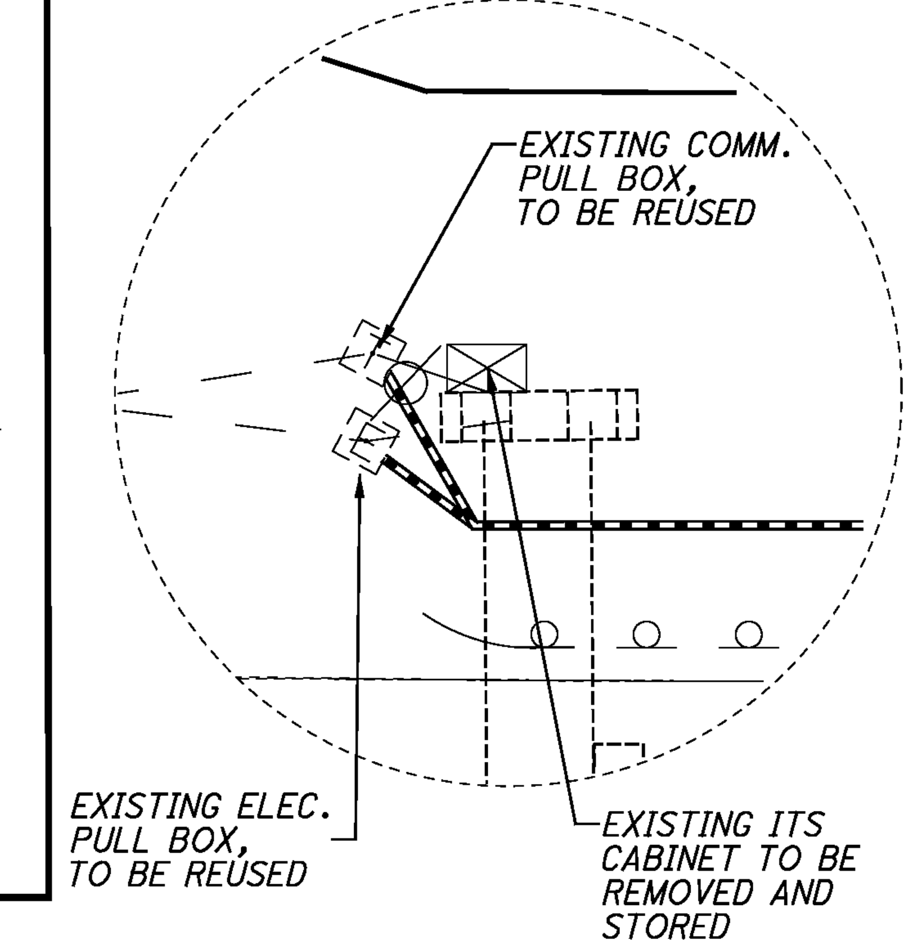
VAR-Dayton Springfield Freeway Management System



(PB1) - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 267+62.5, 76.0' LT.

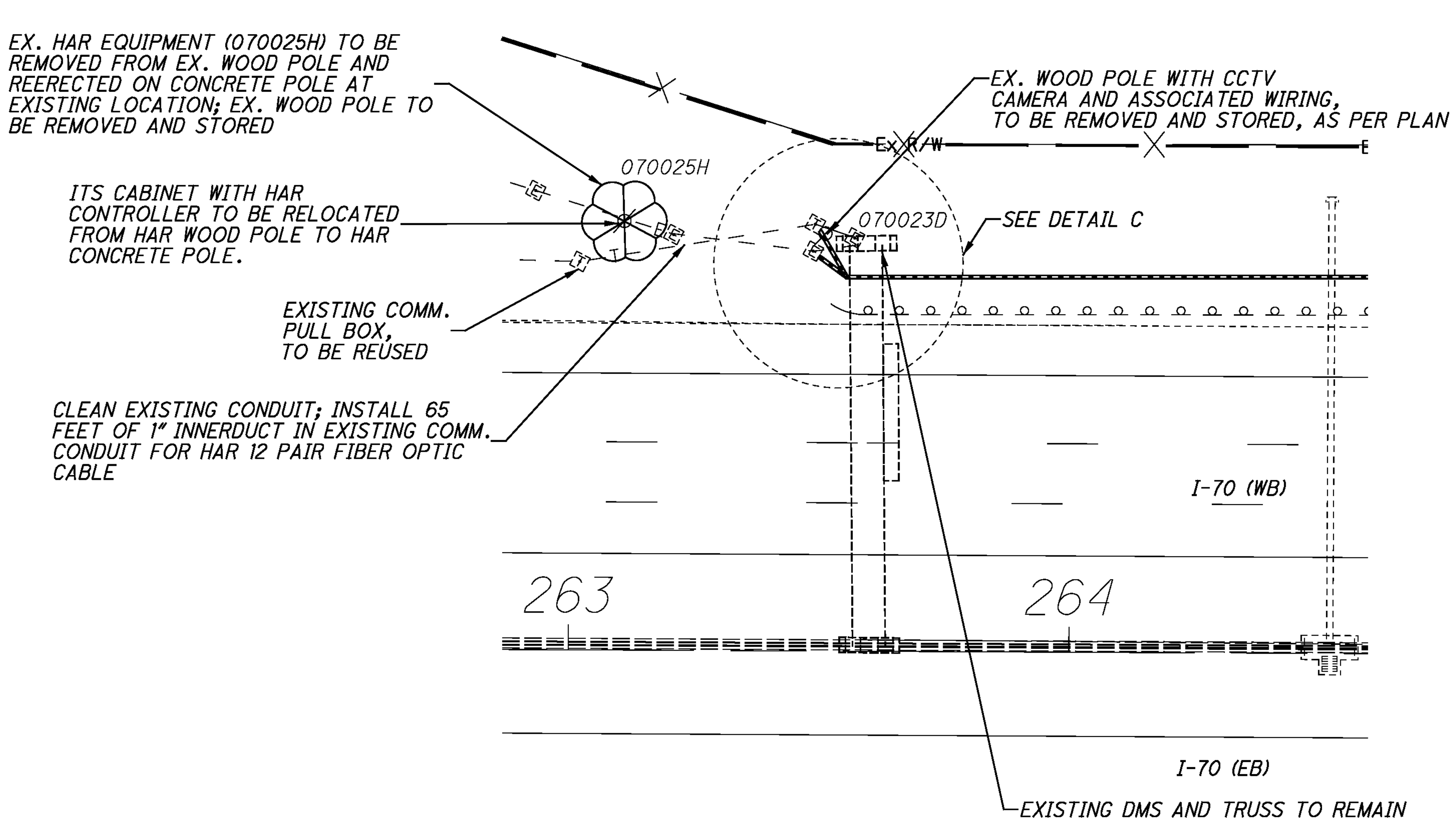
(PB2) - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 267+62.5, 76.0' LT.

DETAIL C - NOT TO SCALE



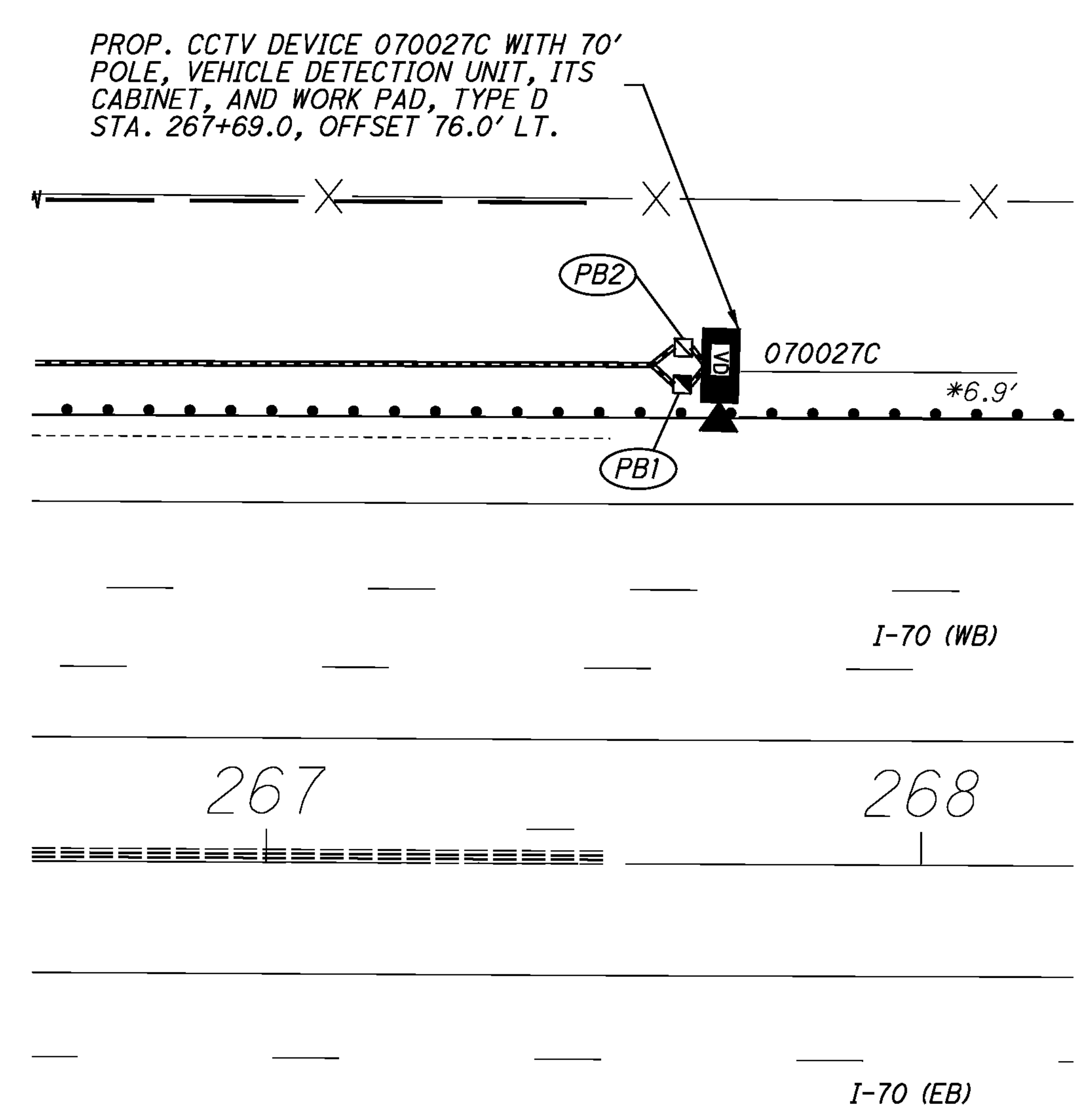
DETAIL A - NOT TO SCALE

SEE SHEET 54 FOR WIRING INFORMATION



DETAIL B - NOT TO SCALE

SEE SHEET 54 FOR WIRING INFORMATION



REFER TO SHEETS 7-8 FOR PULL BOX AND CONDUIT DETAILS

REFER TO SHEETS 9-10 FOR WORK PAD DETAILS

REFER TO SHEETS 11-15 FOR ELECTRICAL DETAILS

REFER TO SHEET 16 FOR COMMUNICATION SERVICE DETAILS

REFER TO SHEET 17 FOR TYPICAL HAR DETAILS

REFER TO SHEETS 18-19 FOR TYPICAL CCTV CAMERA POLE DETAILS

REFER TO SHEET 20 FOR POLE ORIENTATION CHART

REFER TO SHEET 21 FOR TYPICAL DMS DETAILS

REFER TO SHEET 25 FOR TYPICAL DMS TRUSS FOUNDATION DETAILS

REFER TO SHEETS 28-29 FOR TYPICAL DMS TRUSS DETAILS

REFER TO SHEET 114 FOR COMMUNICATIONS PLAN OVERVIEW

REFER TO SHEET 121 FOR FIELD CABINET LAYOUT

* PROPOSED OFFSET BETWEEN DEVICE AND FRONT OF GUARDRAIL.

0 25 50 100
HORIZONTAL SCALE IN FEET

CALCULATED RTM
CHECKED MJH

SITE PLAN #10 - CLA-70-46.03
I-70 AND SNIDER RD (1 OF 2)

VAR-Dayton Springfield Freeway Management System

PLAN CLARIFICATIONS

SITE #10: I-70 & SNIDER RD.

CONTRACTOR:
CCTV CAMERA: CONSTRUCT A CCTV CAMERA SITE PER SITE PLAN, SHEETS 18 AND 19, SPECIAL PROVISIONS SECTIONS 3.22, 3.24/25, AND ANY OTHER PLANS OR SPECIAL PROVISIONS SECTIONS THAT MAY APPLY. CCTV CAMERA POLE SHALL BE LOCATED AT STA. 267+69.0, OFFSET 76.0' LT AND BE ORIENTED PER ORIENTATION CHART ON SHEET 20. A NEW ITS CABINET SHALL BE CONSTRUCTED ON THE CONCRETE CCTV POLE AND HOUSE THE DMS, CCTV EQUIPMENT AND ALL ODOT NETWORK EQUIPMENT. THE EXISTING CCTV CAMERA, ANY RELATED CCTV CAMERA EQUIPMENT, AND WOOD CAMERA POLE SHALL ALSO BE REMOVED AND STORED.

HAR: THE EXISTING HAR ANTENNA, ITS CABINET WITH HAR CONTROLLER, AND RELATED EQUIPMENT SHALL BE REMOVED FROM THE EXISTING WOOD POLE AND RELOCATED ON A NEW 30' CONCRETE POLE IN THE SAME LOCATION. THE HAR CONTROLLER SHALL REMAIN IN THE RELOCATED ITS CABINET ON THE CONCRETE HAR POLE. SEE SITE PLAN, DETAIL SHEET 17, AND SPECIAL PROVISIONS SECTIONS 3.20 AND 3.21 FOR DETAILS. THE EXISTING HAR WOOD POLE SHALL BE REMOVED AND STORED. ONE (1) 12 PAIR FIBER OPTIC CABLE SHALL PROVIDE COMM. SERVICE FROM NETWORK SWITCH IN NEW ITS CABINET ON CAMERA CONCRETE POLE TO HAR CONTROLLER VIA 1" INNERDUCT IN COMM. CONDUITS.

DMS: THE EXISTING DMS SHALL REMAIN. INSTALL WIRE MESH FOR THE EXISTING DMS CATWALK PER DETAIL SHEETS 22-24, SPECIAL PROVISIONS SECTION 3.11, AND ANY OTHER PLANS OR SPECIAL PROVISIONS THAT MAY BE APPLICABLE. THE EXISTING DMS CONTROLLER SHALL BE RELOCATED FROM ITS CABINET ON DMS ENDFRAME TO THE NEW ITS CABINET ON THE CONCRETE CAMERA POLE. TWO (2) NEW CAT. 5 CABLES SHALL PROVIDE COMM. SERVICE FROM NETWORK SWITCH IN NEW ITS CABINET TO MAIN DMS CONTROLLER IN THE SIGN AND THEN BACK TO AUXILIARY CONTROL PANEL IN THE ITS CABINET ON CAMERA CONCRETE POLE VIA 1" INNERDUCT IN COMM. CONDUITS. THE EXISTING ITS CABINET ON THE DMS ENDFRAME SHALL BE REMOVED AND STORED.

VEHICLE DETECTION UNIT: INSTALL A VEHICLE DETECTION UNIT ON THE CAMERA POLE. REFER TO SITE PLANS, SPECIAL PROVISION SECTION 3.27, AND ANY OTHER PLANS OR SPECIAL PROVISIONS THAT MAY APPLY. ORIENT DEVICE ON CAMERA POLE AS DIRECTED BY THE ENGINEER.

POWER: EXISTING POWER SERVICE TO THE DMS SHALL REMAIN. THE EXISTING DISCONNECT ON THE WOOD HAR POLE SHALL BE REMOVED AND RELOCATED ON THE NEW CONCRETE HAR POLE. 30 AMP POWER SERVICE TO THE ITS CABINET ON THE HAR CONCRETE POLE SHALL ORIGINATE IN THE DISCONNECT SWITCH RELOCATED ON THE NEW CONCRETE HAR POLE. THE NEW ITS CABINET SHALL BE CONNECTED TO THE EXTENDED 30 AMP POWER SERVICE FROM THE DMS POWER PANEL

COMMUNICATION: COORDINATE COMMUNICATION CONSTRUCTION WITH TW TELECOM.

LOCATIONS OF NEW PULL BOXES IN THE PLAN ARE APPROXIMATE AND WILL BE DETERMINED BY THE ENGINEER. THREE PULL BOXES AND 60' OF EXISTING CONDUIT SHALL BE CLEANED TO THE SATISFACTION OF THE ENGINEER AS SHOWN IN THE PLANS.

TEST EQUIPMENT AS PER SPECIAL PROVISIONS FOR LOCAL OPERATION. SEE SPECIAL PROVISIONS SECTIONS 2.23 - 2.27.

ODOT:
FURNISH AND INSTALL NETWORK SWITCH, TERMINAL SERVER, AND SMART UPS FOR THE ITS CABINET MOUNTED ON THE CCTV POLE.

TEST NETWORK CONNECTION FOR PROPER OPERATION AS PER SPECIAL PROVISIONS.

TW TELECOM:
FURNISH AND INSTALL ANY NEW COMMUNICATION CABLES AS REQUIRED TO PROVIDE REQUIRED COMMUNICATION SERVICE.

REFER TO SHEETS 7-8 FOR PULL BOX AND CONDUIT DETAILS

REFER TO SHEETS 9-10 FOR WORK PAD DETAILS

REFER TO SHEETS 11-15 FOR ELECTRICAL DETAILS

REFER TO SHEET 16 FOR COMMUNICATION SERVICE DETAILS

REFER TO SHEET 17 FOR TYPICAL HAR DETAILS

REFER TO SHEETS 18-19 FOR TYPICAL CCTV CAMERA POLE DETAILS

REFER TO SHEET 20 FOR POLE ORIENTATION CHART

REFER TO SHEET 21 FOR TYPICAL DMS DETAILS

REFER TO SHEET 25 FOR TYPICAL DMS TRUSS FOUNDATION DETAILS

REFER TO SHEETS 28-29 FOR TYPICAL DMS TRUSS DETAILS

REFER TO SHEET 114 FOR COMMUNICATIONS PLAN OVERVIEW

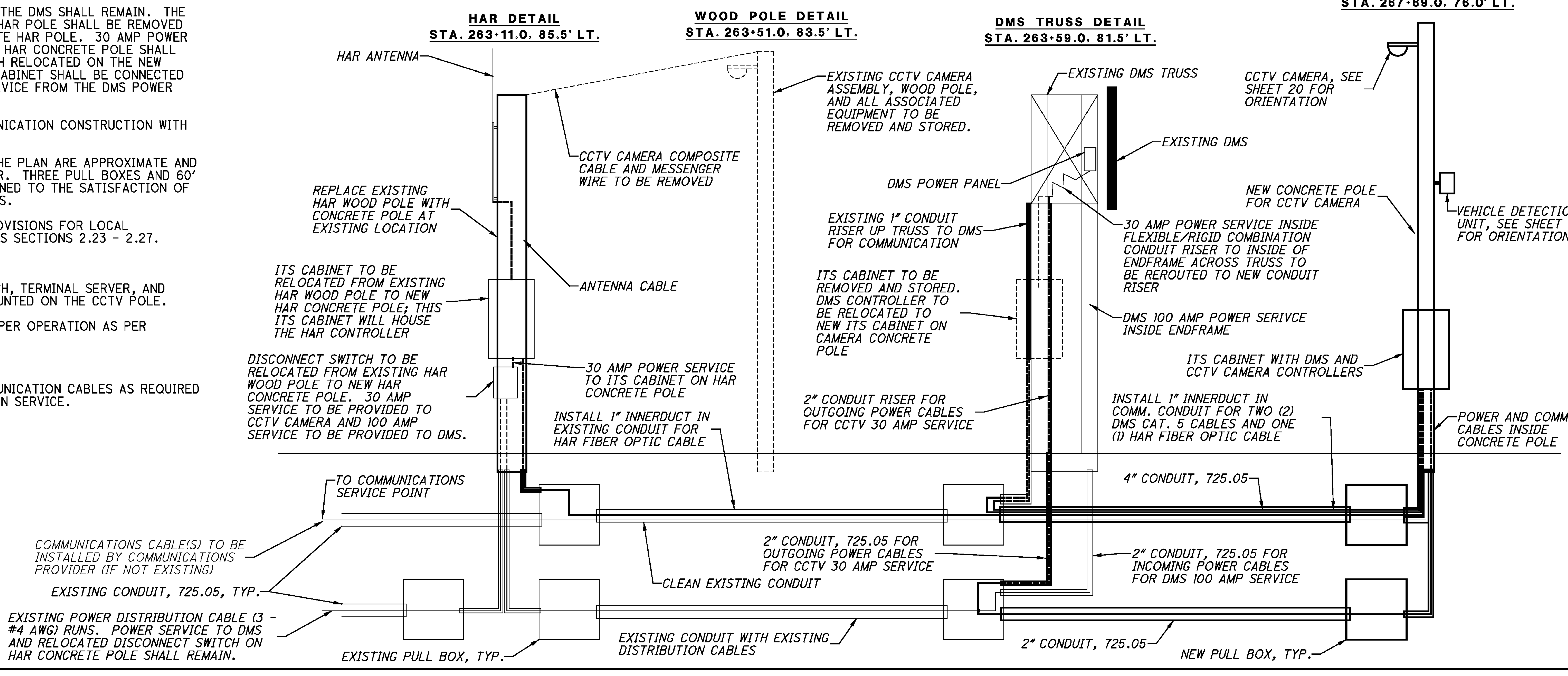
REFER TO SHEET 121 FOR FIELD CABINET LAYOUT

SUB-SUMMARY

ITEM	TOTAL	UNIT	DESCRIPTION
202	1	EACH	ANCHOR ASSEMBLY REMOVED, AS PER PLAN
202	70	FT	EXISTING CONDUIT CLEANED, AS PER PLAN
606	284	FT	GUARDRAIL, TYPE 5
606	1	EACH	ANCHOR ASSEMBLY, TYPE E
625	1520	FT	NO. 2/0 AWG 5000 VOLT DISTRIBUTION CABLE
625	440	FT	CONDUIT, 2", 725.05, AS PER PLAN
625	450	FT	CONDUIT, 4", 725.05, AS PER PLAN
625	440	FT	TRENCH, 24" DEEP
625	1	EACH	PULL BOX, 725.08, 18", AS PER PLAN, TYPE A (ELECTRIC)
625	1	EACH	PULL BOX, MISC.: PULL BOX, 725.08, 32", TYPE B (TRAFFIC)
625	2	EACH	GROUND ROD
625	3	EACH	PULL BOX CLEANED
630	144	SQ FT	SIGNING, MISC.: WIRE MESH FOR DMS TRUSS CATWALK
631	1130	FT	SIGN LIGHTING, MISC.: DYNAMIC MESSAGE SIGN, CATEGORY FIVE CABLE
631	1	EACH	SIGN LIGHTING, MISC.: REMOVAL OF ELECTRIC DISCONNECT SWITCH AND REERECTION
631	1	EACH	SIGN LIGHTING, MISC.: REMOVAL OF DYNAMIC MESSAGE SIGN CONTROLLER AND REERECTION
632	500	FT	INTERCONNECT CABLE, MISC.: INNERDUCT, 1"
632	1	EACH	INTERCONNECT, MISC.: REMOVAL OF HIGHWAY ADVISORY RADIO ASSEMBLY AND REERECTION
632	1	EACH	CONDUIT RISER, 2" DIAMETER
632	1	EACH	REMOVAL OF MISC. TRAFFIC SIGNAL ITEM: REMOVAL OF EXISTING CCTV CAMERA ASSEMBLY AND STORAGE, AS PER PLAN
632	1	EACH	REMOVAL OF MISC. TRAFFIC SIGNAL ITEM: REMOVAL OF EXISTING ITS CABINET AND STORAGE, AS PER PLAN
632	2	EACH	REMOVAL OF MISC. TRAFFIC SIGNAL ITEM REMOVAL OF WOOD POLE AND STORAGE, AS PER PLAN
632	4	EACH	REUSE OF TRAFFIC SIGNAL ITEM: REUSE OF PULL BOX, AS PER PLAN
632	1	EACH	REUSE OF TRAFFIC SIGNAL ITEM: REUSE OF ITS CABINET, AS PER PLAN
632	1	EACH	SIGNALIZATION, MISC.: CCTV IP - CAMERA SYSTEM, CISCO VSOM 4.2 COMPATIBLE, UNPRESSURIZED
632	1	EACH	SIGNALIZATION, MISC.: CCTV POLE, TYPE A (70 FT.), WITH LOWERING DEVICE
632	1	EACH	SIGNALIZATION, MISC.: CONCRETE POLE, HAR SUPPORT
632	2	EACH	SIGNALIZATION, MISC.: VEHICLE DETECTION UNIT
632	1	EACH	SIGNALIZATION, MISC.: DEVICE WORK PAD, TYPE D (SLOPED AREA DESIGN)
633	1	EACH	CONTROLLER ITEM, MISC.: FIELD EQUIPMENT CABINET, ITS CABINET
804	470	FT	FIBER OPTIC CABLE, MISC.: FIBER OPTIC CABLE, 12 PAIR

SITE #10 WIRING DETAIL

NOT TO SCALE

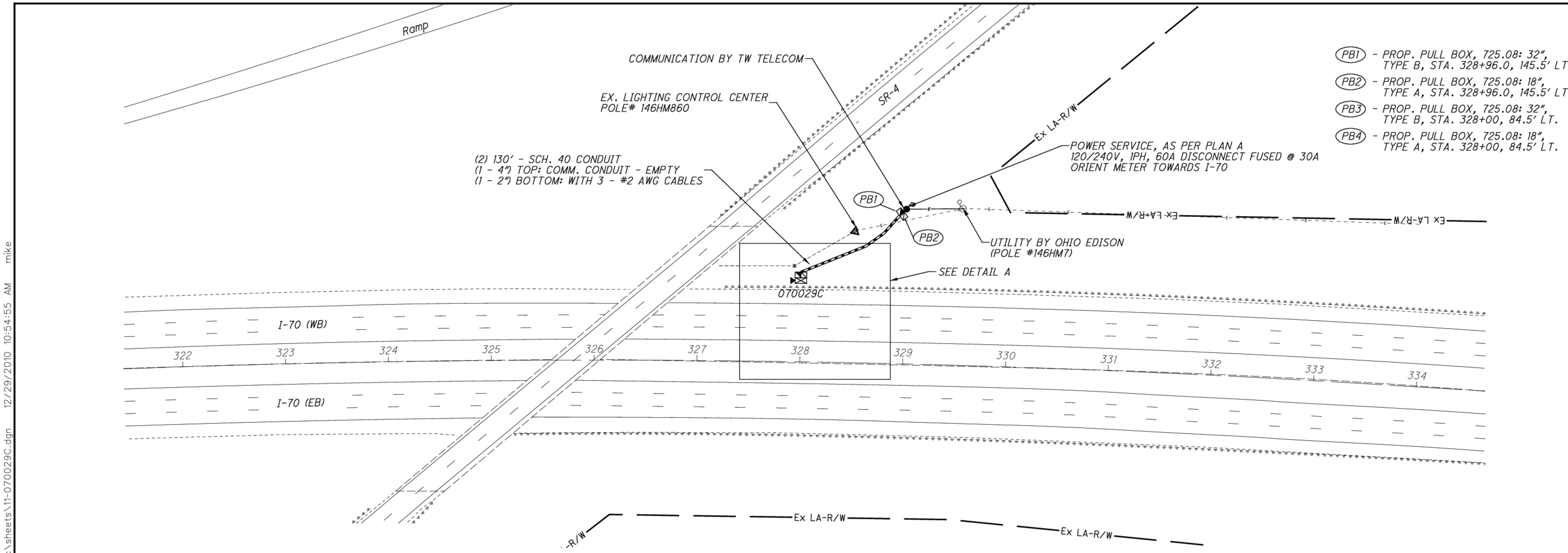


0 25 50 100
HORIZONTAL SCALE IN FEET

CALCULATED RTM
CHECKED MJH

SITE #10 - CLA-70-46.03 - DETAIL
I-70 AND SNIDER RD (2 OF 2)

VAR-Dayton Springfield Freeway Management System



SUB-SUMMARY			
ITEM	TOTAL	UNIT	DESCRIPTION
606	25	FT	GUARDRAIL, MISC.: GUARDRAIL REMOVED AND REPLACED
625	590	FT	NO. 2 AWG 5000 VOLT DISTRIBUTION CABLE
625	130	FT	CONDUIT, 2", 725.05, AS PER PLAN
625	130	FT	CONDUIT, 4", 725.05, AS PER PLAN
625	130	FT	TRENCH, 24" DEEP
625	2	EACH	PULL BOX, 725.08, 18", AS PER PLAN, TYPE A (ELECTRIC)
625	2	EACH	PULL BOX, MISC.: PULL BOX, 725.08, 32", TYPE B (TRAFFIC)
625	1	EACH	GROUND ROD
625	1	EACH	POWER SERVICE, AS PER PLAN A
632	1	EACH	SIGNALIZATION, MISC.: CCTV IP - CAMERA SYSTEM, CISCO VSOM 4.2 COMPATIBLE, UNPRESSURIZED
632	1	EACH	SIGNALIZATION, MISC.: CCTV POLE, TYPE A (70 FT.), WITH LOWERING DEVICE
632	1	EACH	SIGNALIZATION, MISC.: DEVICE WORK PAD, TYPE C
633	1	EACH	CONTROLLER ITEM, MISC.: FIELD EQUIPMENT CABINET, ITS CABINET

REFER TO SHEETS 7-8 FOR PULL BOX AND CONDUIT DETAILS

REFER TO SHEETS 9-10 FOR WORK PAD DETAILS

REFER TO SHEETS 11-15 FOR ELECTRICAL DETAILS

REFER TO SHEET 16 FOR COMMUNICATION SERVICE DETAILS

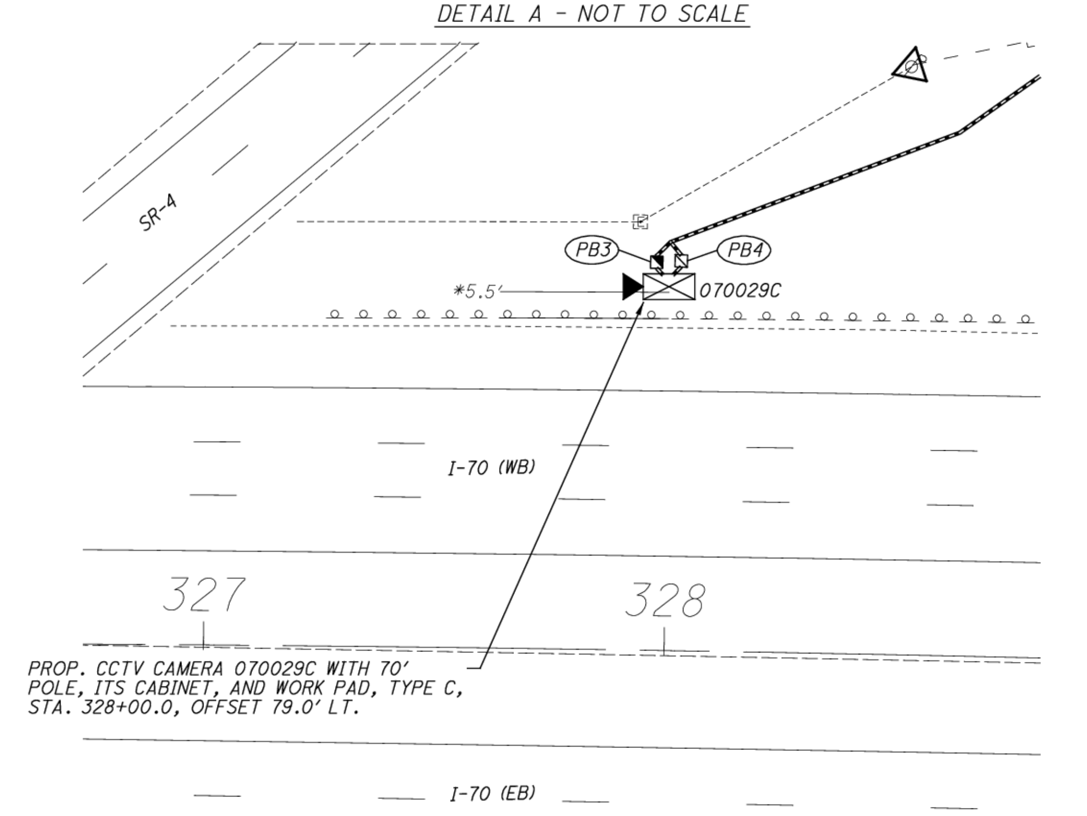
REFER TO SHEETS 18-19 FOR TYPICAL CCTV CAMERA POLE DETAILS

REFER TO SHEET 20 FOR POLE ORIENTATION CHART

REFER TO SHEET 114 FOR COMMUNICATIONS PLAN OVERVIEW

REFER TO SHEET 115 FOR FIELD CABINET LAYOUT

DETAIL A - NOT TO SCALE

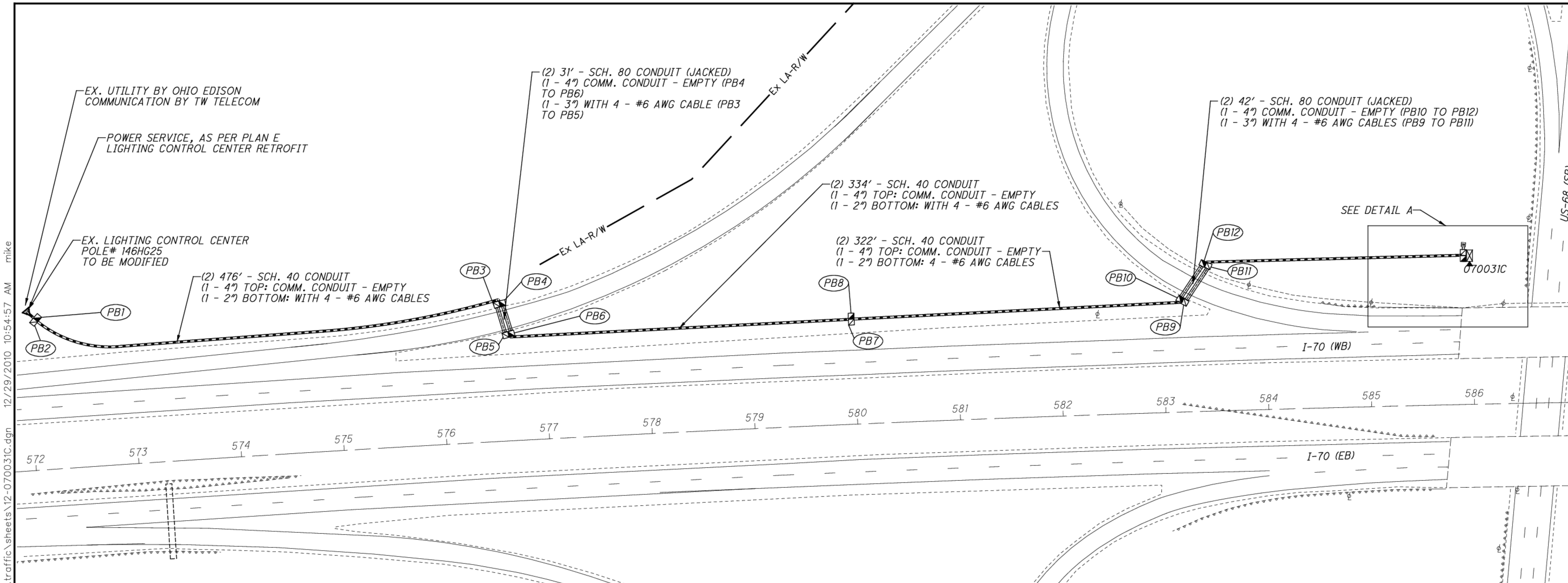


* PROPOSED OFFSET BETWEEN DEVICE AND FRONT OF GUARDRAIL.

CALCULATED RTM
CHECKED MJH

SITE PLAN #11 - CLA-70-47.85
I-70 AND SR-4

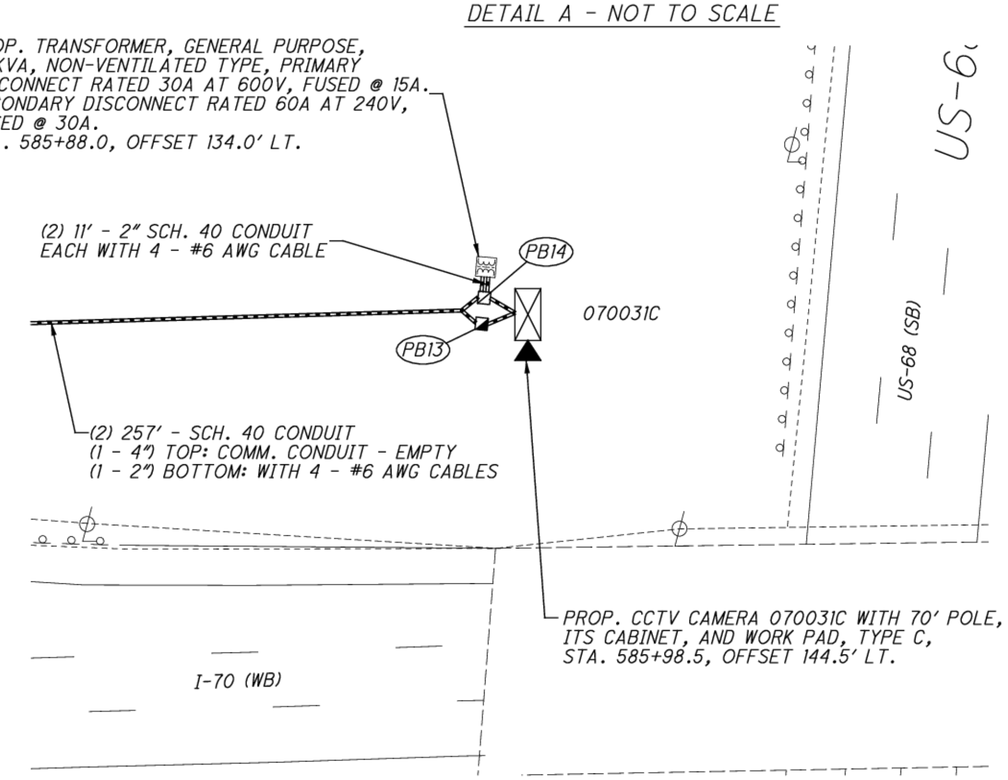
VAR-Dayton Springfield Freeway Management System



SUB-SUMMARY			
ITEM	TOTAL	UNIT	DESCRIPTION
625	6300	FT	NO. 8 AWG 5000 VOLT DISTRIBUTION CABLE
625	1420	FT	CONDUIT, 2", 725.05, AS PER PLAN
625	1400	FT	CONDUIT, 4", 725.05, AS PER PLAN
625	80	FT	CONDUIT JACKED OR DRILLED, 3", AS PER PLAN
625	80	FT	CONDUIT JACKED OR DRILLED, 4", AS PER PLAN
625	1410	FT	TRENCH, 24" DEEP
625	7	EACH	PULL BOX, 725.08, 18", AS PER PLAN, TYPE A (ELECTRIC)
625	7	EACH	PULL BOX, MISC.: PULL BOX, 725.08, 32", TYPE B (TRAFFIC)
625	1	EACH	GROUND ROD
625	1	EACH	POWER SERVICE, AS PER PLAN E (LIGHTING CONTROL CENTER MODIFIED)
632	1	EACH	SIGNALIZATION, MISC.: CCTV IP - CAMERA SYSTEM, CISCO VSOM 4.2 COMPATIBLE, UNPRESSURIZED
632	1	EACH	SIGNALIZATION, MISC.: CCTV POLE, TYPE A (70 FT.), WITH LOWERING DEVICE
632	1	EACH	SIGNALIZATION, MISC.: DEVICE WORK PAD, TYPE C
632	1	EACH	SIGNALIZATION, MISC.: TRANSFORMER, GENERAL PURPOSE, 7.5KVA, NON-VENTILATED TYPE
633	1	EACH	CONTROLLER ITEM, MISC.: FIELD EQUIPMENT CABINET, ITS CABINET

REFER TO SHEETS 7-8 FOR PULL BOX AND CONDUIT DETAILS
REFER TO SHEETS 9-10 FOR WORK PAD DETAILS
REFER TO SHEETS 11-15 FOR ELECTRICAL DETAILS
REFER TO SHEET 16 FOR COMMUNICATIONS PLAN DETAILS
REFER TO SHEETS 18-19 FOR TYPICAL CCTV CAMERA POLE DETAILS
REFER TO SHEET 20 FOR POLE ORIENTATION CHART
REFER TO SHEET 114 FOR COMMUNICATIONS PLAN OVERVIEW
REFER TO SHEET 115 FOR FIELD CABINET LAYOUT

DETAIL A - NOT TO SCALE



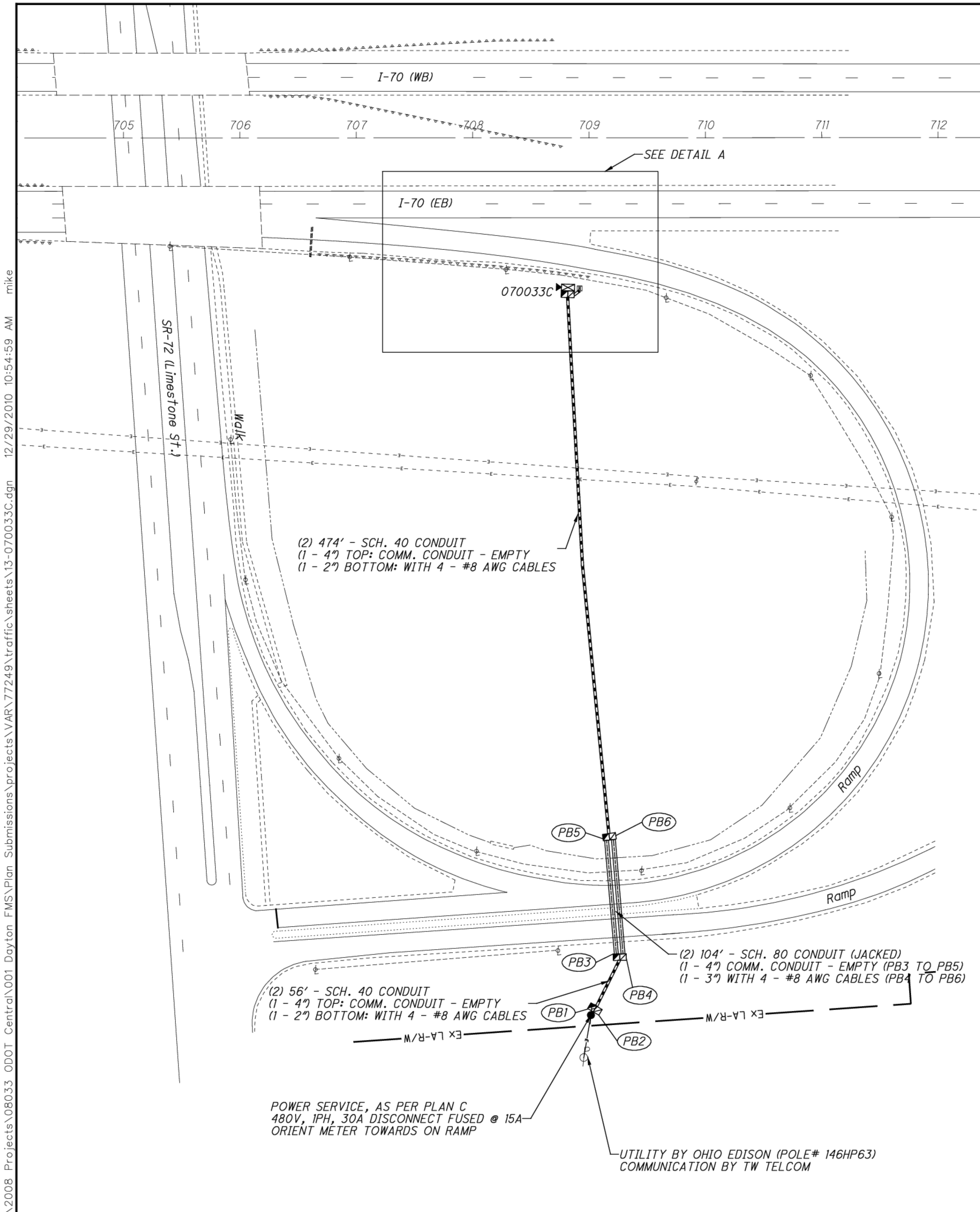
- PB1 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 572+09.5, 146.0' LT.
- PB2 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 572+09.5, 146.0' LT.
- PB3 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 576+58.5, 133.5' LT.
- PB4 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 576+58.5, 133.5' LT.
- PB5 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 576+65.5, 103.5' LT.
- PB6 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 576+65.5, 103.5' LT.
- PB7 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 579+98.0, 102.0' LT.
- PB8 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 579+98.0, 102.0' LT.
- PB9 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 583+19.0, 108.0' LT.
- PB10 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 583+19.0, 108.0' LT.
- PB11 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 583+42.5, 142.5' LT.
- PB12 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 583+42.5, 142.5' LT.
- PB13 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 585+89.0, 145.0' LT.
- PB14 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 585+89.0, 145.0' LT.

HORIZONTAL SCALE IN FEET: 0 25 50 100

CALCULATED RTM
CHECKED MJH

SITE PLAN #12 - CLA-70-52.23
I-70 AND US-68

VAR-Dayton Springfield Freeway Management System



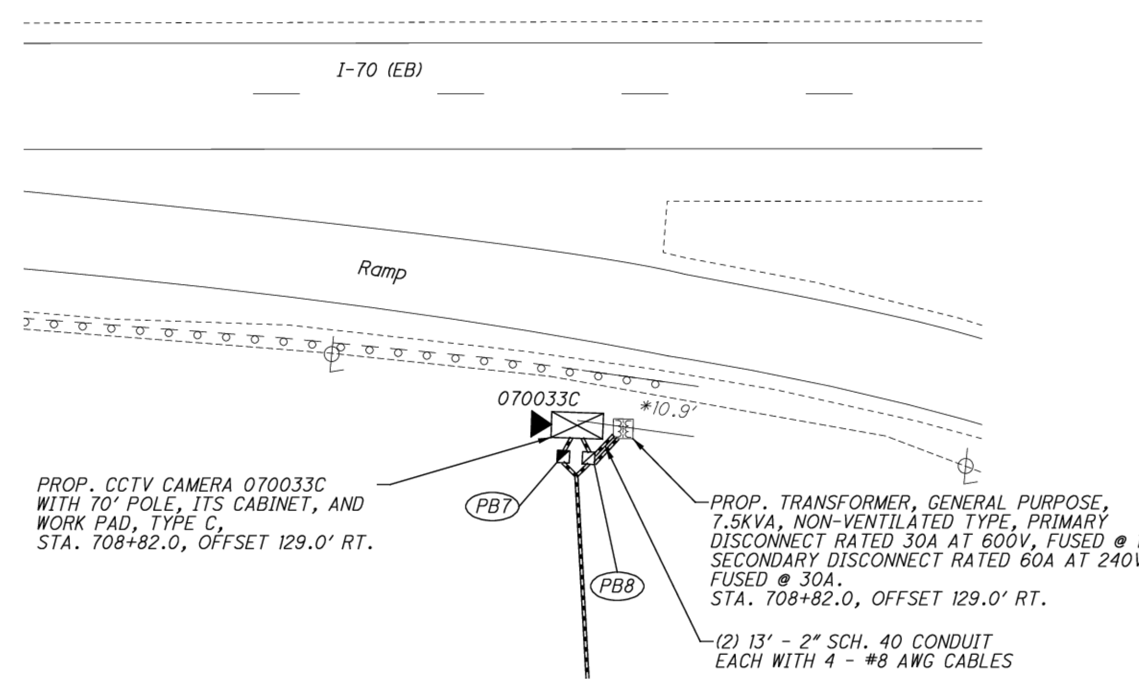
SUB-SUMMARY

ITEM	TOTAL	UNIT	DESCRIPTION
625	2950	FT	DISTRIBUTION CABLE, MISC.: NO. 8 AWG 5000 VOLT DISTRIBUTION CABLE
625	560	FT	CONDUIT, 2", 725.05, AS PER PLAN
625	530	FT	CONDUIT, 4", 725.05, AS PER PLAN
625	110	FT	CONDUIT JACKED OR DRILLED, 3", AS PER PLAN
625	110	FT	CONDUIT JACKED OR DRILLED, 4", AS PER PLAN
625	550	FT	TRENCH, 24" DEEP
625	4	EACH	PULL BOX, 725.08, 18", AS PER PLAN, TYPE A (ELECTRIC)
625	4	EACH	PULL BOX, MISC.: PULL BOX, 725.08, 32", TYPE B (TRAFFIC)
625	1	EACH	GROUND ROD
625	1	EACH	POWER SERVICE, AS PER PLAN C
632	1	EACH	SIGNALIZATION, MISC.: CCTV IP - CAMERA SYSTEM, CISCO VSOM 4.2 COMPATIBLE, UNPRESSURIZED
632	1	EACH	SIGNALIZATION, MISC.: CCTV POLE, TYPE A (70 FT.), WITH LOWERING DEVICE
632	1	EACH	SIGNALIZATION, MISC.: DEVICE WORK PAD, TYPE C
632	1	EACH	SIGNALIZATION, MISC.: TRANSFORMER, GENERAL PURPOSE, 7.5KVA, NON-VENTILATED TYPE
633	1	EACH	CONTROLLER ITEM, MISC.: FIELD EQUIPMENT CABINET, ITS CABINET

PB1 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 709+05.0, 749.0' RT.
PB2 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 709+05.0, 749.0' RT.
PB3 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 709+26.0, 704.5' RT.
PB4 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 709+26.0, 704.5' RT.
PB5 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 709+17.0, 601.0' RT.
PB6 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 709+17.0, 601.0' RT.
PB7 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 708+81.5, 134.5' RT.
PB8 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 708+81.5, 134.5' RT.

REFER TO SHEET 7-8 FOR PULL BOX AND CONDUIT DETAILS
REFER TO SHEETS 9-10 FOR WORK PAD DETAILS
REFER TO SHEETS 11-16 FOR ELECTRICAL DETAILS
REFER TO SHEETS 18-19 FOR TYPICAL CCTV CAMERA POLE DETAILS
REFER TO SHEET 20 FOR POLE ORIENTATION CHART
REFER TO SHEET 121 FOR COMMUNICATION PLAN OVERVIEW
REFER TO SHEETS 122-141 FOR COMMUNICATION DETAILS

DETAIL A - NOT TO SCALE



* PROPOSED OFFSET BETWEEN DEVICE AND FRONT OF GUARDRAIL.

0 25 50 100
HORIZONTAL SCALE IN FEET

CALCULATED RTM
CHECKED MJH

SITE PLAN #13 - CLA-70-54.52
I-70 AND SR-72

VAR-Dayton Springfield Freeway Management System

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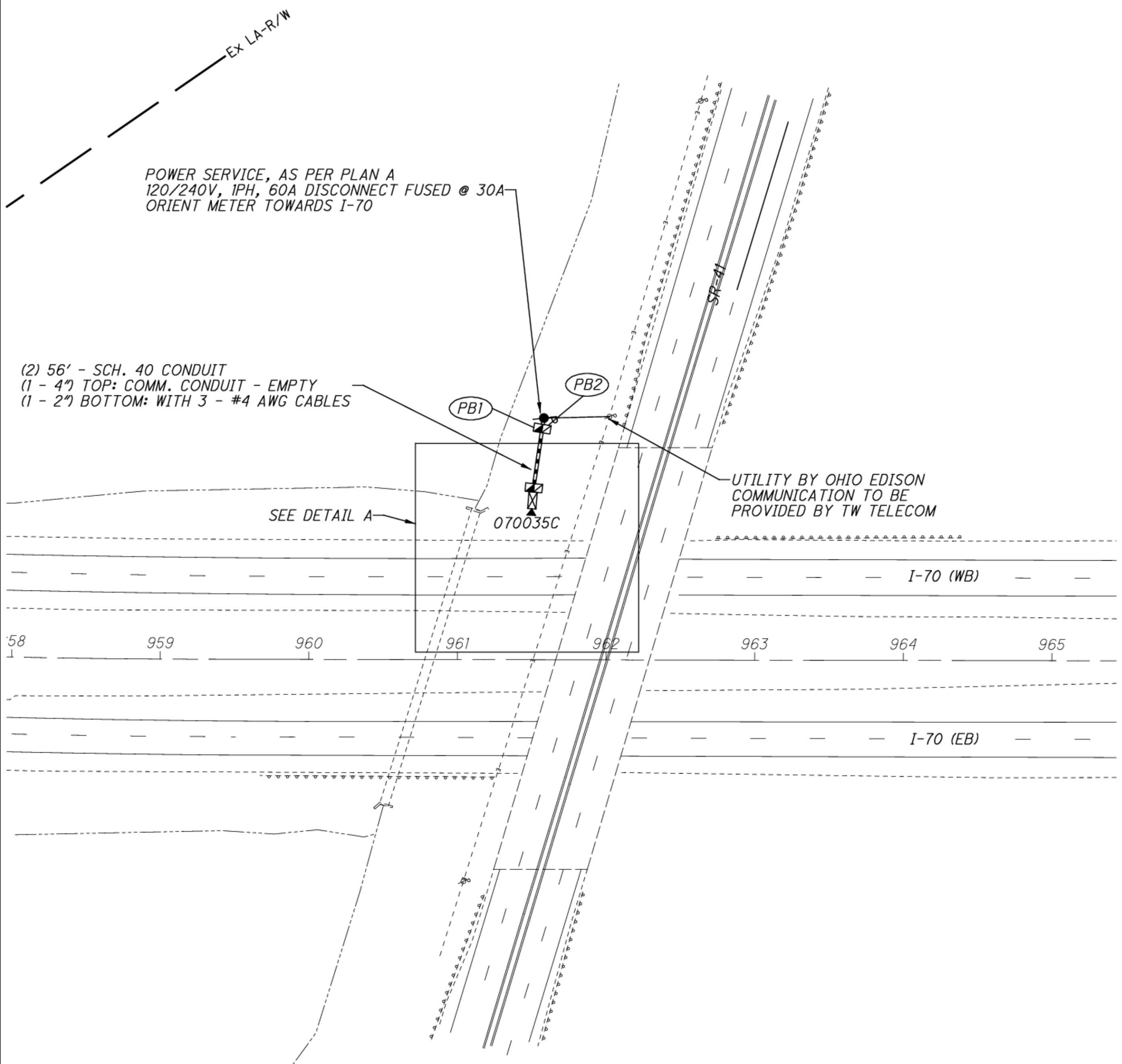


PB1 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 961+56.5, 155.5' LT.

PB2 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 961+56.5, 155.5' LT.

PB3 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 961+51.0, 114.0' LT.

PB4 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 961+51.0, 114.0' LT.

REFER TO SHEETS 7-8 FOR PULL BOX AND CONDUIT DETAILS

REFER TO SHEETS 9-10 FOR WORK PAD DETAILS

REFER TO SHEETS 11-15 FOR ELECTRICAL DETAILS

REFER TO SHEET 16 FOR COMMUNICATION SERVICE DETAILS

REFER TO SHEETS 18-19 FOR TYPICAL CCTV CAMERA POLE DETAILS

REFER TO SHEET 20 FOR POLE ORIENTATION CHART

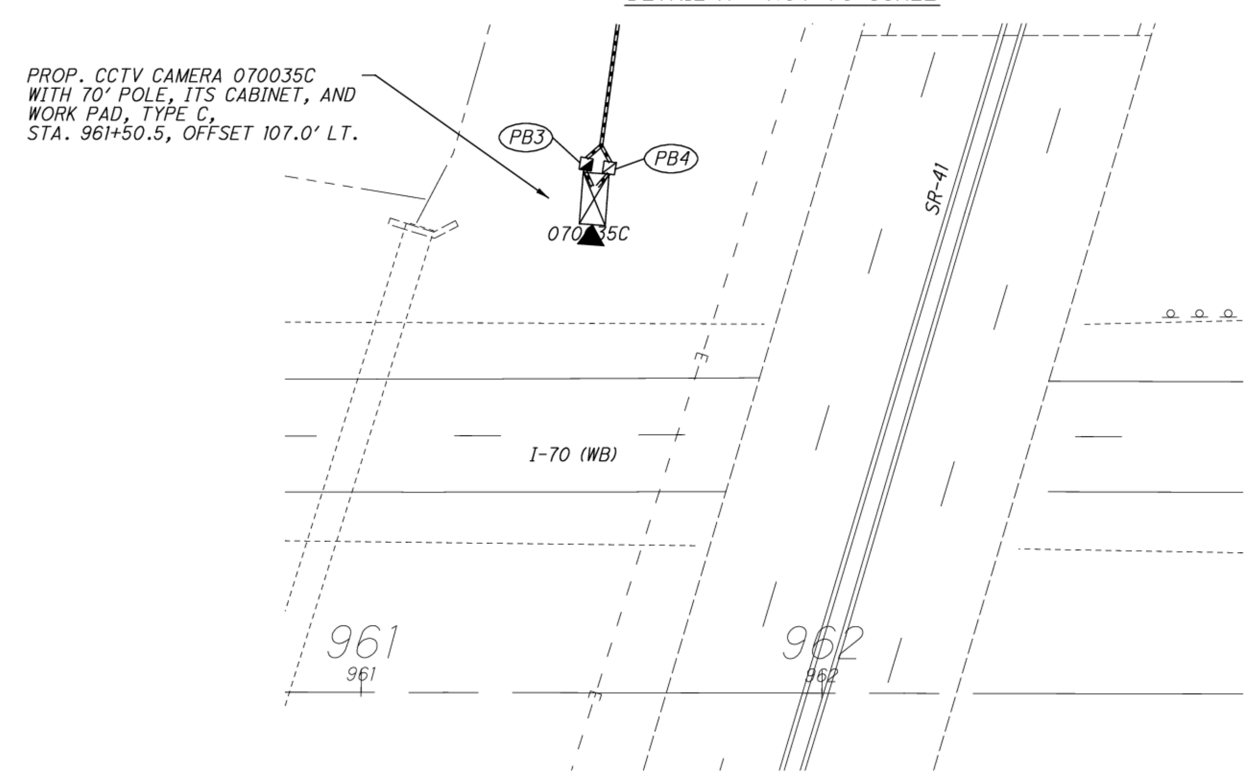
REFER TO SHEET 114 FOR COMMUNICATIONS PLAN OVERVIEW

REFER TO SHEET 115 FOR FIELD CABINET LAYOUT

SUB-SUMMARY

ITEM	TOTAL	UNIT	DESCRIPTION
625	370	FT	NO. 4 AWG 5000 VOLT DISTRIBUTION CABLE
625	60	FT	CONDUIT, 2", 725.05, AS PER PLAN
625	60	FT	CONDUIT, 4", 725.05, AS PER PLAN
625	60	FT	TRENCH, 24" DEEP
625	2	EACH	PULL BOX, 725.08, 18", AS PER PLAN, TYPE A (ELECTRIC)
625	2	EACH	PULL BOX, MISC.: PULL BOX, 725.08, 32", TYPE B (TRAFFIC)
625	1	EACH	GROUND ROD
625	1	EACH	POWER SERVICE, AS PER PLAN A
632	1	EACH	SIGNALIZATION, MISC.: CCTV IP - CAMERA SYSTEM, CISCO VSOM 4.2 COMPATIBLE, UNPRESSURIZED
632	1	EACH	SIGNALIZATION, MISC.: CCTV POLE, TYPE A (70 FT.), WITH LOWERING DEVICE
632	1	EACH	SIGNALIZATION, MISC.: DEVICE WORK PAD, TYPE C
633	1	EACH	CONTROLLER ITEM, MISC.: FIELD EQUIPMENT CABINET, ITS CABINET

DETAIL A - NOT TO SCALE



HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED RTM

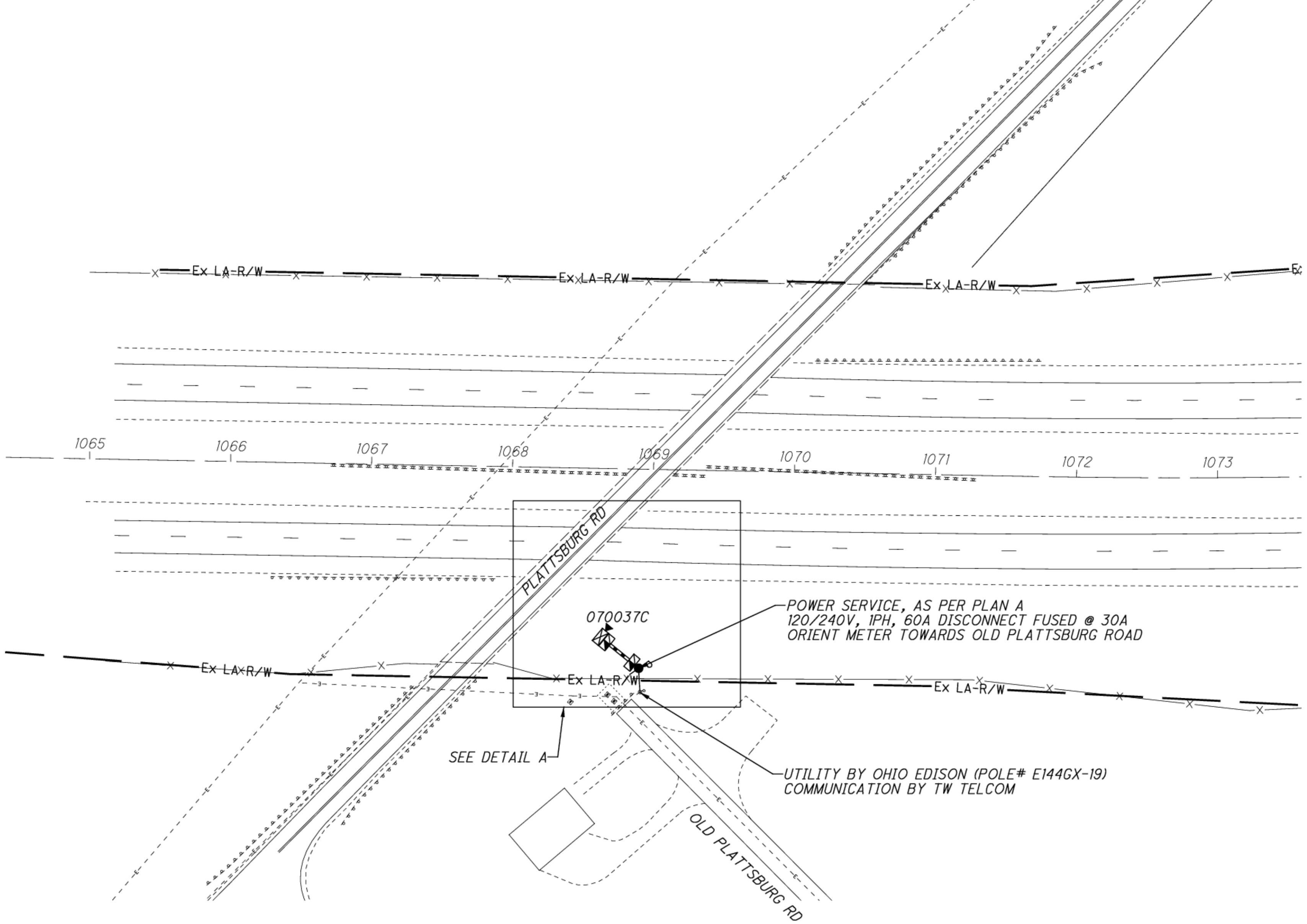
CHECKED MJH

SITE PLAN #14 - CLA-70-59.35

I-70 AND SR-41

VAR-Dayton Springfield Freeway Management System

REFER TO SHEETS 7-8 FOR PULL BOX AND CONDUIT DETAILS
REFER TO SHEETS 9-10 FOR WORK PAD DETAILS
REFER TO SHEETS 11-15 FOR ELECTRICAL DETAILS
REFER TO SHEET 16 FOR COMMUNICATION SERVICE DETAILS
REFER TO SHEETS 18-19 FOR TYPICAL CCTV CAMERA POLE DETAILS
REFER TO SHEET 20 FOR POLE ORIENTATION CHART
REFER TO SHEET 114 FOR COMMUNICATIONS PLAN OVERVIEW
REFER TO SHEET 115 FOR FIELD CABINET LAYOUT

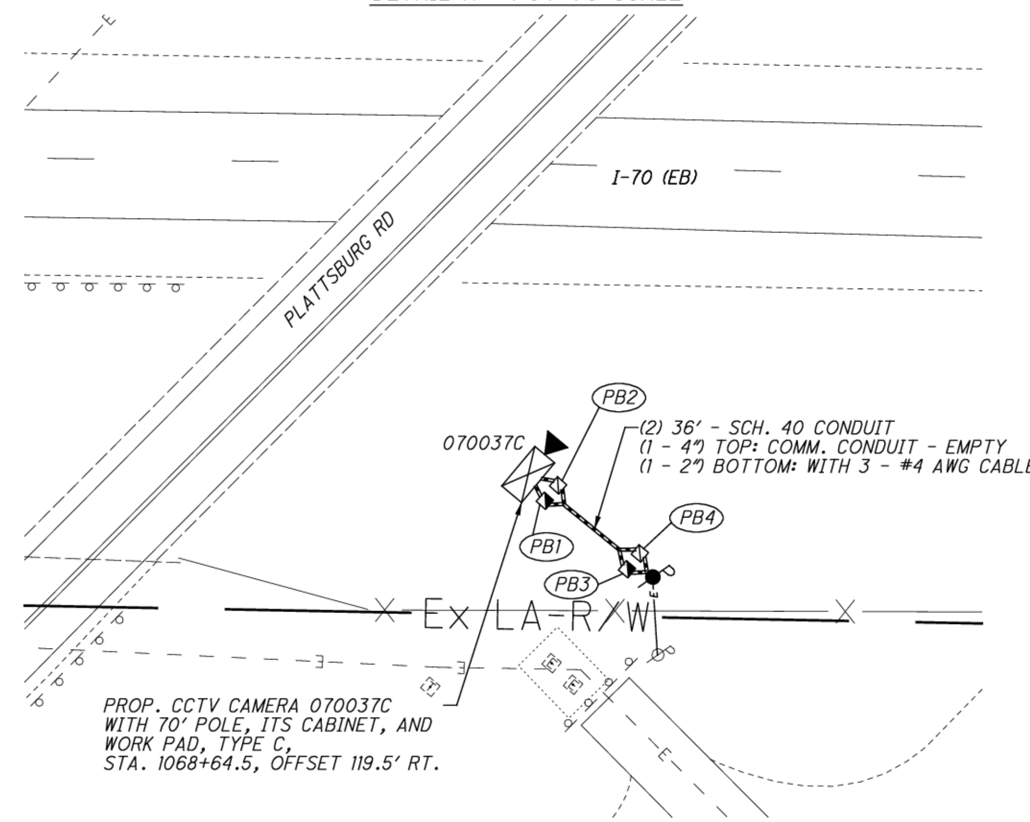


PB1 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 1068+69.0, 123.0' RT.
PB2 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 1068+69.0, 123.0' RT.
PB3 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 1068+87.0, 137.5' RT.
PB4 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 1068+87.0, 137.5' RT.

SUB-SUMMARY

ITEM	TOTAL	UNIT	DESCRIPTION
625	310	FT	NO. 4 AWG 5000 VOLT DISTRIBUTION CABLE
625	40	FT	CONDUIT, 2", 725.05, AS PER PLAN
625	40	FT	CONDUIT, 4", 725.05, AS PER PLAN
625	40	FT	TRENCH, 24" DEEP
625	2	EACH	PULL BOX, 725.08, 18", AS PER PLAN, TYPE A (ELECTRIC)
625	2	EACH	PULL BOX, MISC.: PULL BOX, 725.08, 32", TYPE B (TRAFFIC)
625	1	EACH	GROUND ROD
625	1	EACH	POWER SERVICE, AS PER PLAN A
632	1	EACH	SIGNALIZATION, MISC.: CCTV IP - CAMERA SYSTEM, CISCO VSOM 4.2 COMPATIBLE, UNPRESSURIZED
632	1	EACH	SIGNALIZATION, MISC.: CCTV POLE, TYPE A (70 FT.), WITH LOWERING DEVICE
632	1	EACH	SIGNALIZATION, MISC.: DEVICE WORK PAD, TYPE C
633	1	EACH	CONTROLLER ITEM, MISC.: FIELD EQUIPMENT CABINET, ITS CABINET

DETAIL A - NOT TO SCALE

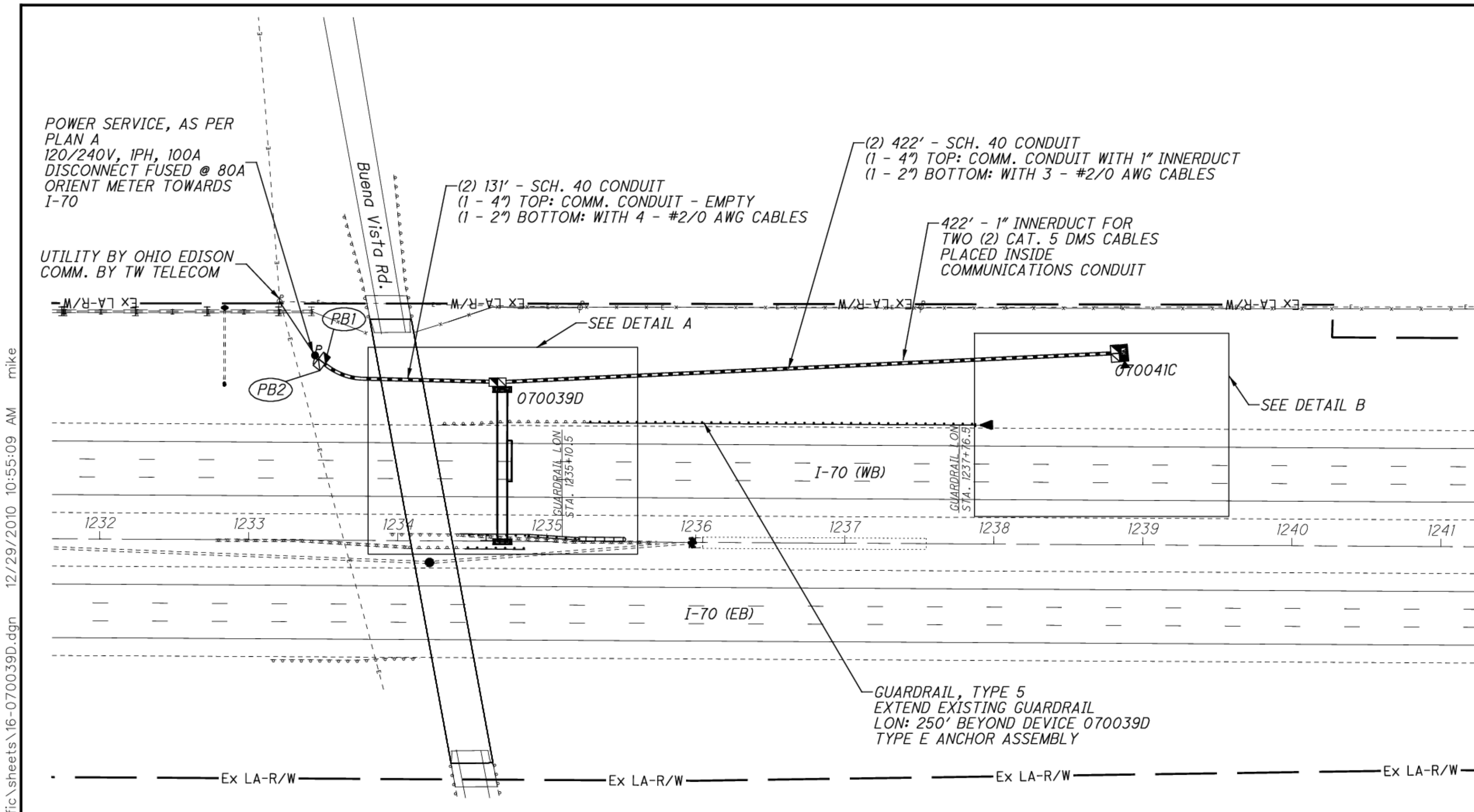


HORIZONTAL SCALE IN FEET
0 25 50 100

CALCULATED RTM
CHECKED MJH

SITE PLAN #15 - CLA-70-61.38
I-70 AND PLATTSBURG RD

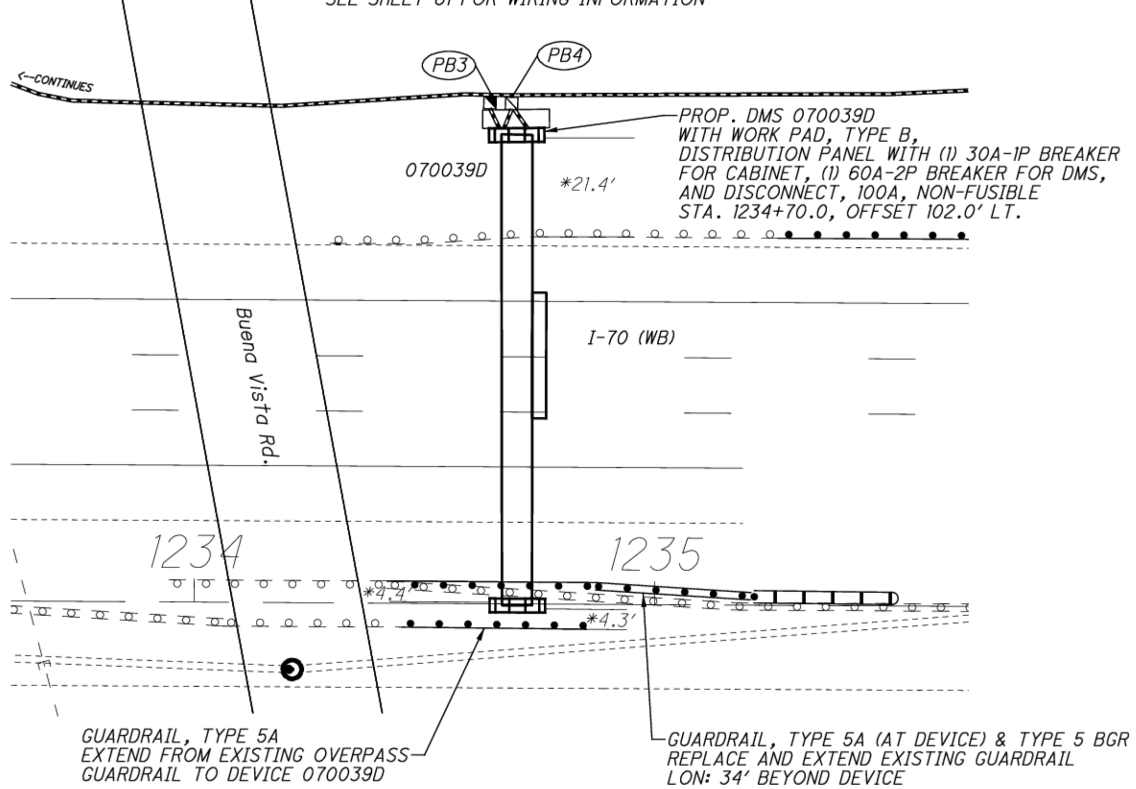
VAR-Dayton Springfield Freeway Management System



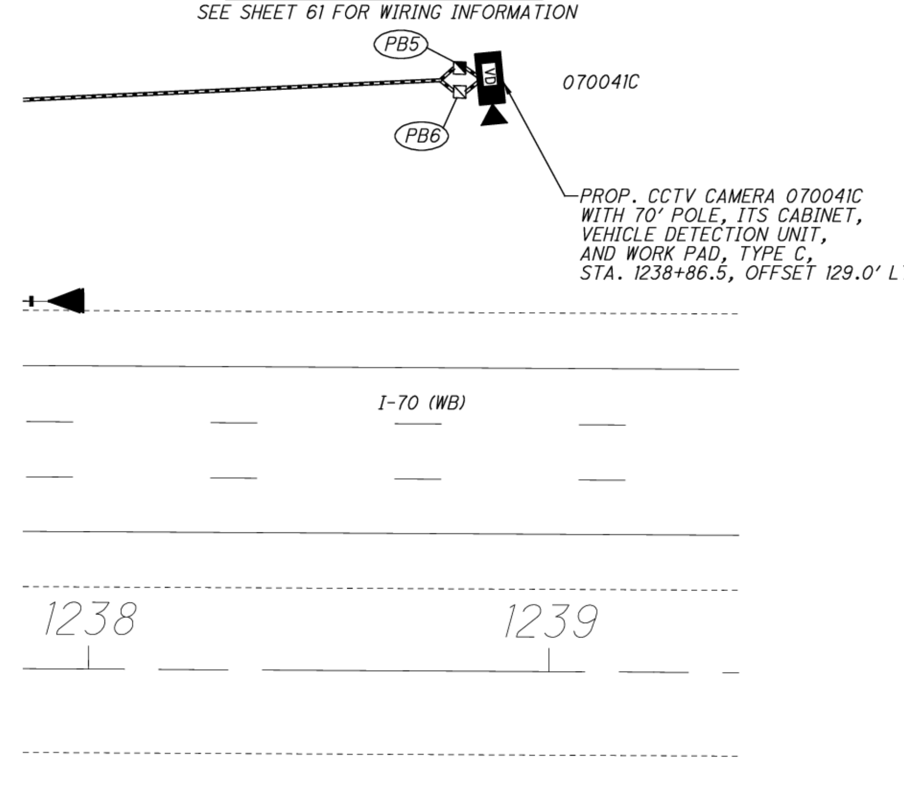
REFER TO SHEETS 7-8 FOR PULL BOX AND CONDUIT DETAILS
REFER TO SHEETS 9-10 FOR WORK PAD DETAILS
REFER TO SHEETS 11-15 FOR ELECTRICAL DETAILS
REFER TO SHEET 16 FOR COMMUNICATION SERVICE DETAILS
REFER TO SHEETS 18-19 FOR TYPICAL CCTV CAMERA POLE DETAILS
REFER TO SHEET 20 FOR POLE ORIENTATION CHART
REFER TO SHEET 21 FOR TYPICAL DMS DETAILS
REFER TO SHEET 25 FOR TYPICAL DMS TRUSS FOUNDATION DETAILS
REFER TO SHEETS 28-29 FOR TYPICAL DMS TRUSS DETAILS
REFER TO SHEET 114 FOR COMMUNICATIONS PLAN OVERVIEW
REFER TO SHEET 120 FOR FIELD CABINET LAYOUT

PB1 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 1233+48.0, 120.5' LT.
PB2 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 1233+48.0, 120.5' LT.
PB3 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 1234+69.5, 109.5' LT.
PB4 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 1234+69.5, 109.5' LT.
PB5 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 1238+80.5, 128.5' LT.
PB6 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 1238+80.5, 128.5' LT.

DETAIL A - NOT TO SCALE
SEE SHEET 61 FOR WIRING INFORMATION



DETAIL B - NOT TO SCALE
SEE SHEET 61 FOR WIRING INFORMATION



* PROPOSED OFFSET BETWEEN DEVICE AND FRONT OF GUARDRAIL.

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HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED RTM
CHECKED MJH

SITE PLAN #16 - CLA-70-64.55
I-70 AND BUENA VISTA RD

VAR-Dayton Springfield Freeway Management System

PLAN CLARIFICATIONS

SITE #16: I-70 & BUENA VISTA RD.

CONTRACTOR:
CCTV CAMERA: CONSTRUCT A CCTV CAMERA SITE PER SITE PLAN, SHEETS 18 AND 19, SPECIAL PROVISIONS SECTIONS 3.22, 3.24/25, AND ANY OTHER PLANS OR SPECIAL PROVISIONS SECTIONS THAT MAY APPLY. CCTV CAMERA POLE SHALL BE LOCATED AT STA. 1238+89.5, OFFSET 129.0' LT AND BE ORIENTED PER ORIENTATION CHART ON SHEET 20. INSTALL ITS CABINET ON THE CONCRETE CAMERA POLE. THE CCTV AND DMS CONTROLLERS SHALL BE LOCATED IN THE ITS CABINET. THE ITS CABINET SHALL BE CONNECTED TO 30 AMP POWER SERVICE FROM DMS POWER PANEL.

DMS: CONSTRUCT DMS AND DMS SUPPORT STRUCTURE INCLUDING FOUNDATION. TWO (2) NEW CAT. 5 CABLES SHALL PROVIDE COMM. SERVICE FROM NETWORK SWITCH IN NEW ITS CABINET TO MAIN DMS CONTROLLER IN THE SIGN AND THEN BACK TO AUXILIARY CONTROL PANEL IN THE ITS CABINET ON CAMERA CONCRETE POLE VIA 1" INNERDUCT IN COMM. CONDUITS. SEE SITE PLANS, SPECIAL PROVISIONS SECTIONS 3.10, 3.16, AND ANY OTHER PLANS OR SPECIAL PROVISIONS THAT MAY BE APPLICABLE. PROVIDE 100 AMP POWER SERVICE UNDERGROUND FROM SERVICE POLE TO DMS.

VEHICLE DETECTION UNIT: INSTALL A VEHICLE DETECTION UNIT ON THE CAMERA POLE. REFER TO SITE PLANS, SPECIAL PROVISION SECTION 3.27, AND ANY OTHER PLANS OR SPECIAL PROVISIONS THAT MAY APPLY. ORIENT DEVICE ON CAMERA POLE AS DIRECTED BY THE ENGINEER.

POWER: CONSTRUCT POWER SERVICE, AS PER PLAN A, FOR THIS SITE. SEE SHEETS 11-16, 31, AND OTHER NECESSARY SHEETS FOR ELECTRICAL DETAILS. A LOCAL DISCONNECT SHALL BE PROVIDED ON THE DMS ENDRFAME, SEE SITE PLANS, SPECIAL PROVISIONS SECTION 3.13, AND ANY OTHER PLANS OR SPECIAL PROVISIONS THAT MAY APPLY.

COORDINATE COMMUNICATION CONSTRUCTION WITH TW TELECOM.

LOCATIONS OF PULL BOXES IN THE PLAN ARE APPROXIMATE AND WILL BE DETERMINED BY THE ENGINEER.

TEST EQUIPMENT AS PER SPECIAL PROVISIONS FOR LOCAL OPERATION. SEE SPECIAL PROVISIONS SECTIONS 2.23 - 2.27.

ODOT:
FURNISH AND INSTALL NETWORK SWITCH, TERMINAL SERVER, AND SMART UPS FOR THE ITS CABINET MOUNTED ON THE CAMERA POLE.

TEST NETWORK CONNECTION FOR PROPER OPERATION AS PER SPECIAL PROVISIONS.

OHIO EDISON:
CONNECT POWER FROM OVERHEAD TRANSFORMER TO POLE MOUNTED POWER SERVICE INSTALLED BY CONTRACTOR (POWER SERVICE AS PER PLAN A).

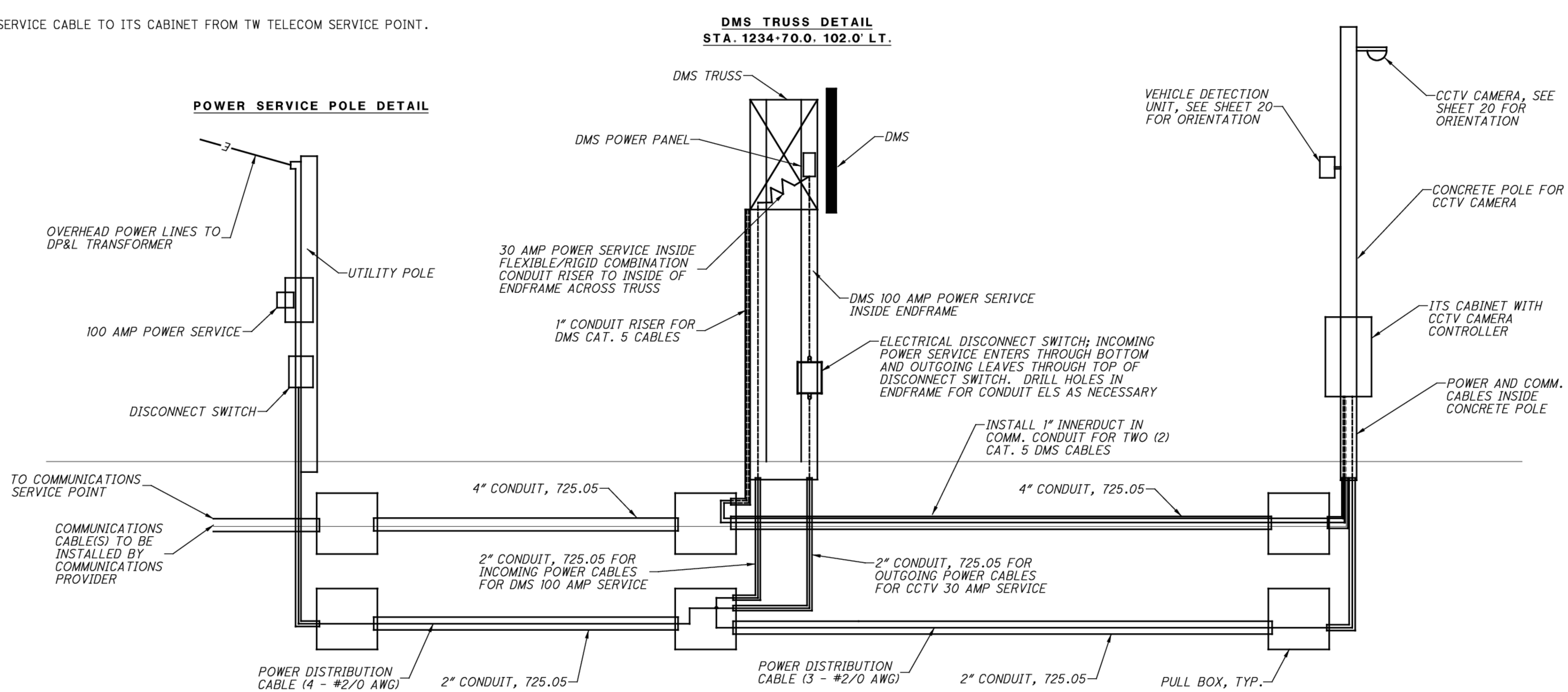
TW TELECOM:
FURNISH AND INSTALL COMMUNICATION SERVICE CABLE TO ITS CABINET FROM TW TELECOM SERVICE POINT.

SUB-SUMMARY

ITEM	TOTAL	UNIT	DESCRIPTION
202	133	FT	GUARDRAIL REMOVED
202	3	EACH	ANCHOR ASSEMBLY REMOVED, AS PER PLAN
606	374	FT	GUARDRAIL, TYPE 5
606	112	FT	GUARDRAIL, TYPE 5A
606	36	FT	GUARDRAIL, BARRIER DESIGN, TYPE 5
606	1	EACH	ANCHOR ASSEMBLY, TYPE E
606	1	EACH	ANCHOR ASSEMBLY, TYPE T
606	1	EACH	IMPACT ATTENUATOR, TYPE 1 (BIDIRECTIONAL)
625	2670	FT	NO. 2/0 AWG 5000 VOLT DISTRIBUTION CABLE
625	560	FT	CONDUIT, 2", 725.05, AS PER PLAN
625	570	FT	CONDUIT, 4", 725.05, AS PER PLAN
625	560	FT	TRENCH, 24" DEEP
625	3	EACH	PULL BOX, 725.08, 18", AS PER PLAN, TYPE A (ELECTRIC)
625	3	EACH	PULL BOX, MISC.: PULL BOX, 725.08, 32", TYPE B (TRAFFIC)
625	2	EACH	GROUND ROD
625	1	EACH	POWER SERVICE, AS PER PLAN A
630	1	EACH	OVERHEAD SIGN SUPPORT, DMS TRUSS, 150' AS PER PLAN
630	2	EACH	OVERHEAD SIGN SUPPORT FOUNDATION, DMS TRUSS
631	1	EACH	SIGN LIGHTING, MISC.: DISCONNECT SWITCH, 60A
631	1	EACH	SIGN LIGHTING, MISC.: DYNAMIC MESSAGE SIGN
632	430	FT	INTERCONNECT CABLE, MISC.: INNERDUCT, 1"
632	1	EACH	CONDUIT RISER, 1" DIAMETER
632	1	EACH	SIGNALIZATION, MISC.: CCTV IP - CAMERA SYSTEM, CISCO VSOM 4.2 COMPATIBLE, UNPRESSURIZED
632	1	EACH	SIGNALIZATION, MISC.: CCTV POLE, TYPE A (70 FT.), WITH LOWERING DEVICE
632	2	EACH	SIGNALIZATION, MISC.: VEHICLE DETECTION UNIT
632	1	EACH	SIGNALIZATION, MISC.: DEVICE WORK PAD, TYPE B
632	1	EACH	SIGNALIZATION, MISC.: DEVICE WORK PAD, TYPE C
633	1	EACH	CONTROLLER ITEM, MISC.: FIELD EQUIPMENT CABINET, ITS CABINET

SITE #16 WIRING DETAIL

NOT TO SCALE



REFER TO SHEETS 7-8 FOR PULL BOX AND CONDUIT DETAILS

REFER TO SHEETS 9-10 FOR WORK PAD DETAILS

REFER TO SHEETS 11-15 FOR ELECTRICAL DETAILS

REFER TO SHEET 16 FOR COMMUNICATION SERVICE DETAILS

REFER TO SHEETS 18-19 FOR TYPICAL CCTV CAMERA POLE DETAILS

REFER TO SHEET 20 FOR POLE ORIENTATION CHART

REFER TO SHEET 21 FOR TYPICAL DMS DETAILS

REFER TO SHEET 25 FOR TYPICAL DMS TRUSS FOUNDATION DETAILS

REFER TO SHEETS 28-29 FOR TYPICAL DMS TRUSS DETAILS

REFER TO SHEET 114 FOR COMMUNICATIONS PLAN OVERVIEW

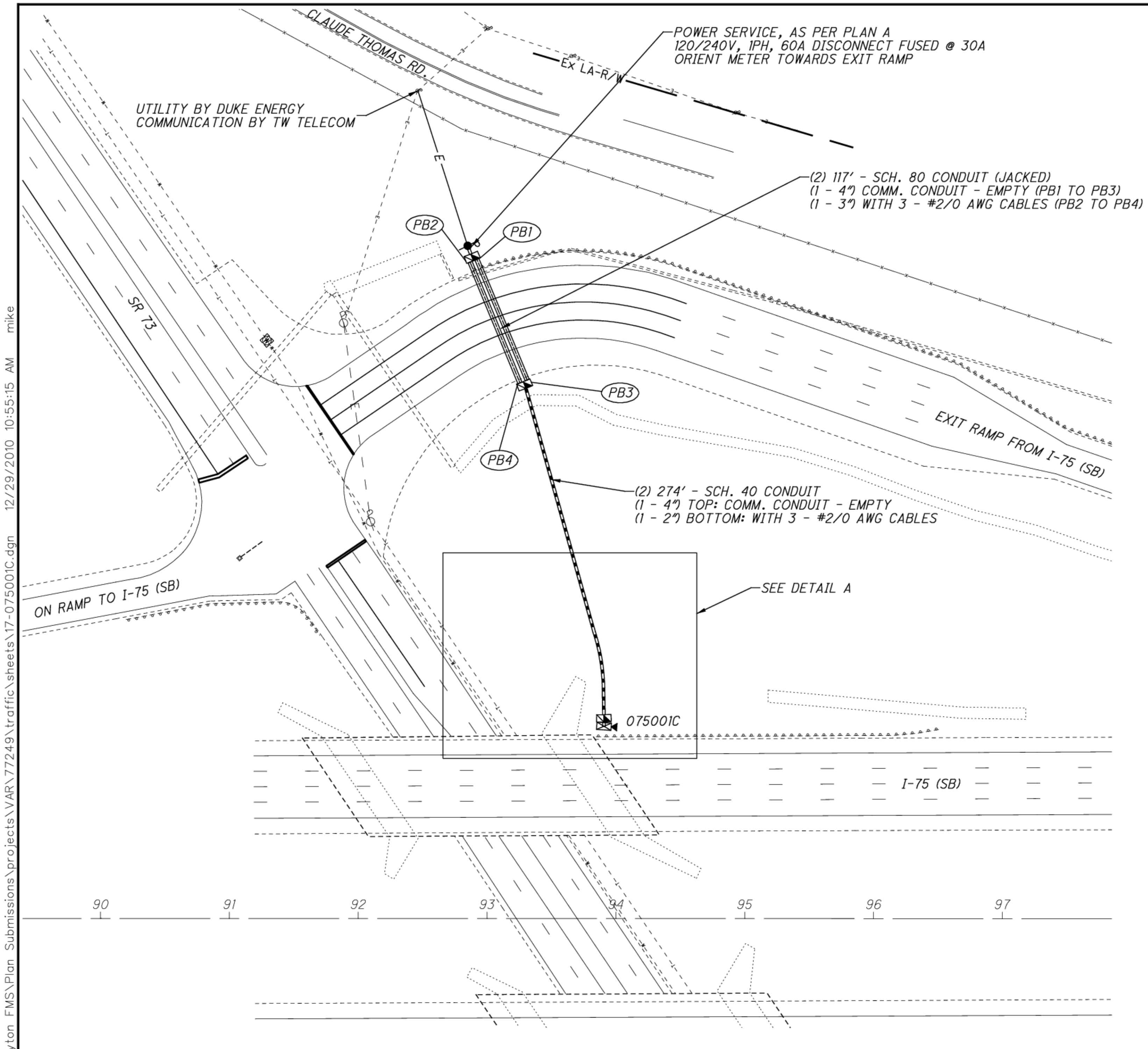
REFER TO SHEET 120 FOR FIELD CABINET LAYOUT

HORIZONTAL SCALE IN FEET
0 25 50 100

CALCULATED RTM
CHECKED MJH

SITE #16 - CLA-70-64.55 - DETAILS
I-70 AND BUENA VISTA RD

VAR-Dayton Springfield Freeway Management System



PB1 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 92+88.5, 513.0' LT.

PB2 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 92+88.5, 513.0' LT.

PB3 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 93+29.0, 414.0' LT.

PB4 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 93+29.0, 414.0' LT.

PB5 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 93+90.5, 155.5' LT.

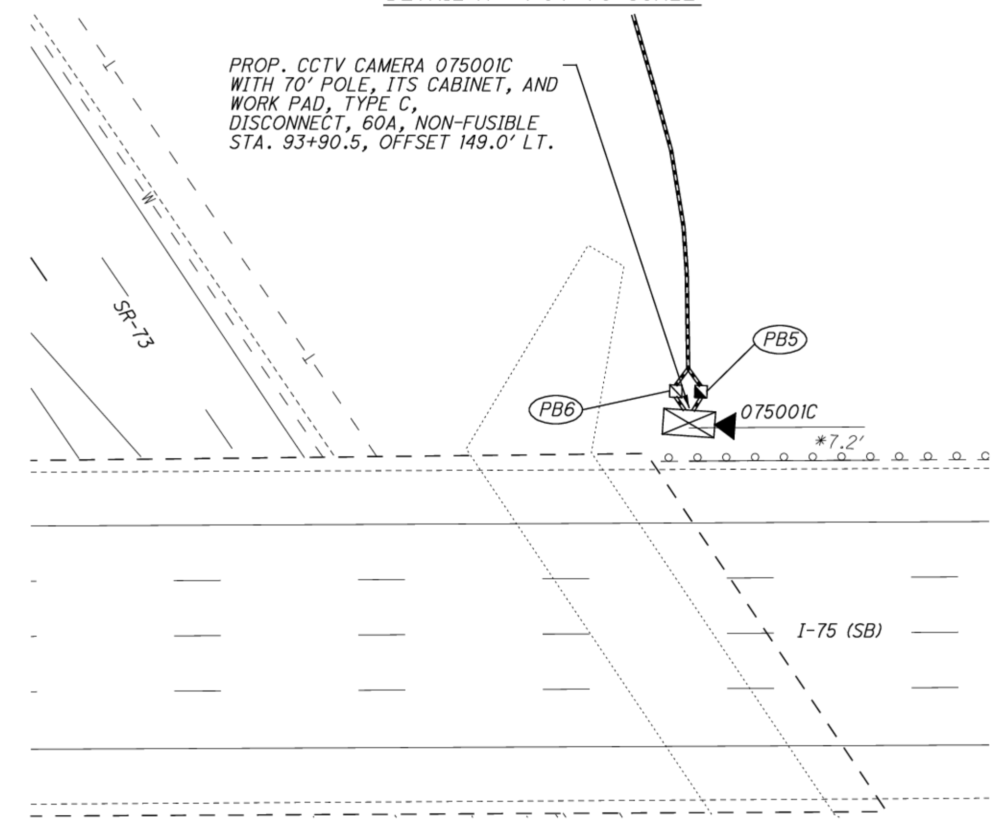
PB6 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 93+90.5, 155.5' LT.

REFER TO SHEETS 7-8 FOR PULL BOX AND CONDUIT DETAILS
REFER TO SHEETS 9-10 FOR WORK PAD DETAILS
REFER TO SHEETS 11-15 FOR ELECTRICAL DETAILS
REFER TO SHEET 16 FOR COMMUNICATION SERVICE DETAILS
REFER TO SHEETS 18-19 FOR TYPICAL CCTV CAMERA POLE DETAILS
REFER TO SHEET 20 FOR POLE ORIENTATION CHART
REFER TO SHEET 114 FOR COMMUNICATIONS PLAN OVERVIEW
REFER TO SHEET 115 FOR FIELD CABINET LAYOUT

SUB-SUMMARY

ITEM	TOTAL	UNIT	DESCRIPTION
606	25	FT	GUARDRAIL, MISC.: GUARDRAIL REMOVED AND REPLACED
625	1390	FT	NO. 2/0 AWG 5000 VOLT DISTRIBUTION CABLE
625	280	FT	CONDUIT, 2", 725.05, AS PER PLAN
625	280	FT	CONDUIT, 4", 725.05, AS PER PLAN
625	120	FT	CONDUIT JACKED OR DRILLED, 3", AS PER PLAN
625	120	FT	CONDUIT JACKED OR DRILLED, 4", AS PER PLAN
625	280	FT	TRENCH, 24" DEEP
625	3	EACH	PULL BOX, 725.08, 18", AS PER PLAN, TYPE A (ELECTRIC)
625	3	EACH	PULL BOX, MISC.: PULL BOX, 725.08, 32", TYPE B (TRAFFIC)
625	1	EACH	GROUND ROD
625	1	EACH	POWER SERVICE, AS PER PLAN A
631	1	EACH	SIGN LIGHTING, MISC.: DISCONNECT SWITCH, 60A
632	1	EACH	SIGNALIZATION, MISC.: CCTV IP - CAMERA SYSTEM, CISCO VSOM 4.2 COMPATIBLE, UNPRESSURIZED
632	1	EACH	SIGNALIZATION, MISC.: CCTV POLE, TYPE A (70 FT.), WITH LOWERING DEVICE
632	1	EACH	SIGNALIZATION, MISC.: DEVICE WORK PAD, TYPE C
633	1	EACH	CONTROLLER ITEM, MISC.: FIELD EQUIPMENT CABINET, ITS CABINET

DETAIL A - NOT TO SCALE



* PROPOSED OFFSET BETWEEN DEVICE AND FRONT OF GUARDRAIL.

HORIZONTAL SCALE IN FEET
0 25 50 100

CALCULATED RTM
CHECKED MJH

SITE PLAN #17 - WAR-75-38.74
I-75 AND SR-73

VAR-Dayton Springfield Freeway Management System

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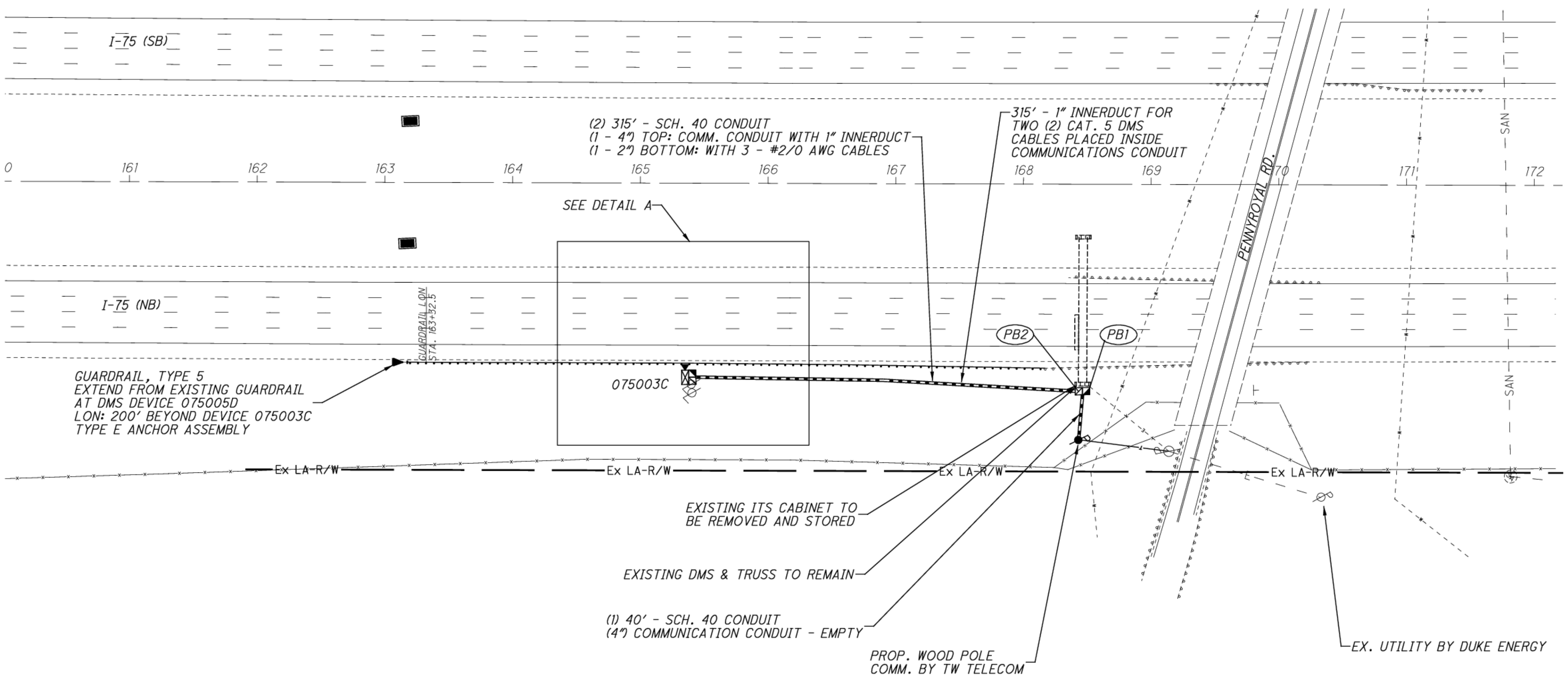


REFER TO SHEETS 7-8 FOR PULL BOX AND CONDUIT DETAILS
REFER TO SHEETS 9-10 FOR WORK PAD DETAILS
REFER TO SHEETS 11-15 FOR ELECTRICAL DETAILS
REFER TO SHEET 16 FOR COMMUNICATION SERVICE DETAILS
REFER TO SHEETS 18-19 FOR TYPICAL CCTV CAMERA POLE DETAILS
REFER TO SHEET 20 FOR POLE ORIENTATION CHART
REFER TO SHEET 21 FOR TYPICAL DMS DETAILS
REFER TO SHEET 25 FOR TYPICAL DMS TRUSS FOUNDATION DETAILS
REFER TO SHEETS 28-29 FOR TYPICAL DMS TRUSS DETAILS
REFER TO SHEET 114 FOR COMMUNICATIONS PLAN OVERVIEW
REFER TO SHEET 117 FOR FIELD CABINET LAYOUT

(PB1) - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 168+46.5, 164.5' RT.

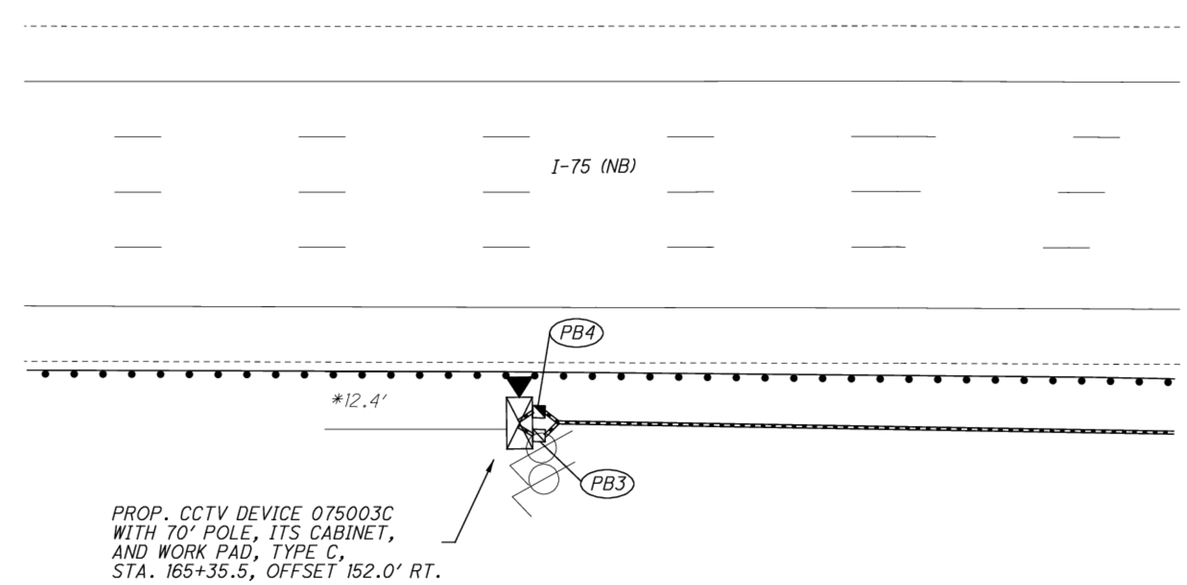
(PB2) - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 168+46.5, 164.5' RT.

(PB3) - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 165+41.0, 152.0' RT.

(PB4) - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 165+41.0, 152.0' RT.

DETAIL A - NOT TO SCALE

SEE SHEET 64 FOR WIRING INFORMATION



* PROPOSED OFFSET BETWEEN DEVICE AND FRONT OF GUARDRAIL.

HORIZONTAL SCALE IN FEET: 0 25 50 100

CALCULATED RTM
CHECKED MJH

SITE PLAN #18 - WAR-75-40.14
I-75 AND PENNYROYAL RD

VAR-Dayton Springfield Freeway Management System

SUB-SUMMARY			
ITEM	TOTAL	UNIT	DESCRIPTION
202	1	EACH	ANCHOR ASSEMBLY REMOVED, AS PER PLAN
606	497	FT	GUARDRAIL, TYPE 5
606	1	EACH	ANCHOR ASSEMBLY, TYPE E
625	1280	FT	NO. 2/0 AWG 5000 VOLT DISTRIBUTION CABLE
625	320	FT	CONDUIT, 2", 725.05, AS PER PLAN
625	370	FT	CONDUIT, 4", 725.05, AS PER PLAN
625	370	FT	TRENCH, 24" DEEP
625	2	EACH	PULL BOX, 725.08, 18", AS PER PLAN, TYPE A (ELECTRIC)
625	2	EACH	PULL BOX, MISC.: PULL BOX, 725.08, 32", TYPE B (TRAFFIC)
625	1	EACH	GROUND ROD
630	200	SQ FT	SIGNING, MISC.: WIRE MESH FOR DMS TRUSS CATWALK
631	820	FT	SIGN LIGHTING, MISC.: DYNAMIC MESSAGE SIGN, CATEGORY FIVE CABLE
631	1	EACH	SIGN LIGHTING, MISC.: REMOVAL OF DYNAMIC MESSAGE SIGN CONTROLLER AND REERECTION
632	320	FT	INTERCONNECT CABLE, MISC.: INNERDUCT, 1"
632	1	EACH	INTERCONNECT, MISC.: REMOVAL OF HIGHWAY ADVISORY RADIO ASSEMBLY AND REERECTION, AS PRE PLAN
632	1	EACH	CONDUIT RISER, 1" DIAMETER
632	1	EACH	CONDUIT RISER, 2" DIAMETER
632	1	EACH	WOOD POLE
632	1	EACH	REMOVAL OF MISC. TRAFFIC SIGNAL ITEM: REMOVAL OF EXISTING ITS CABINET AND STORAGE, AS PER PLAN
632	1	EACH	SIGNALIZATION, MISC.: CCTV IP - CAMERA SYSTEM, CISCO VSOM 4.2 COMPATIBLE, UNPRESSURIZED
632	1	EACH	SIGNALIZATION, MISC.: CCTV POLE, TYPE A (70 FT.), WITH LOWERING DEVICE
632	1	EACH	SIGNALIZATION, MISC.: DEVICE WORK PAD, TYPE C
633	1	EACH	CONTROLLER ITEM, MISC.: FIELD EQUIPMENT CABINET, ITS CABINET

PLAN CLARIFICATIONS

SITE #18: I-75 & PENNYROYAL RD.

CONTRACTOR:
CCTV CAMERA: CONSTRUCT A CCTV CAMERA SITE PER SITE PLAN, SHEETS 18 AND 19, SPECIAL PROVISIONS SECTIONS 3.22, 3.24/25, AND ANY OTHER PLANS OR SPECIAL PROVISIONS SECTIONS THAT MAY APPLY. CCTV CAMERA POLE SHALL BE LOCATED AT STA. 165+32.5, OFFSET 154.5' RT AND BE ORIENTED PER ORIENTATION CHART ON SHEET 20. A NEW ITS CABINET SHALL BE INSTALLED ON THE CONCRETE CAMERA POLE. THE CCTV AND DMS CONTROLLERS SHALL BE LOCATED IN THE ITS CABINET. THE ITS CABINET SHALL BE CONNECTED TO A 30 AMP POWER SERVICE FROM THE DMS POWER PANEL.

DMS: THE EXISTING DMS SHALL REMAIN. INSTALL WIRE MESH FOR THE EXISTING DMS CATWALK PER DETAIL SHEETS 22-24, SPECIAL PROVISIONS SECTION 3.11, AND ANY OTHER PLANS OR SPECIAL PROVISIONS THAT MAY BE APPLICABLE. THE EXISTING DMS CONTROLLER SHALL BE RELOCATED FROM ITS CABINET ON DMS ENDFRAME TO THE NEW ITS CABINET ON THE CONCRETE CAMERA POLE. TWO (2) NEW CAT. 5 CABLES SHALL PROVIDE COMM. SERVICE FROM NETWORK SWITCH IN NEW ITS CABINET TO MAIN DMS CONTROLLER IN THE SIGN AND THEN BACK TO AUXILIARY CONTROL PANEL IN THE ITS CABINET ON CAMERA CONCRETE POLE VIA 1" INNERDUCT IN COMM. CONDUITS. THE EXISTING ITS CABINET ON THE DMS ENDFRAME SHALL BE REMOVED AND STORED.

POWER: EXISTING POWER SERVICE TO THE DMS SHALL REMAIN.

COORDINATE COMMUNICATION CONSTRUCTION WITH TW TELECOM.

LOCATIONS OF PULL BOXES IN THE PLAN ARE APPROXIMATE AND WILL BE DETERMINED BY THE ENGINEER.

TEST EQUIPMENT AS PER SPECIAL PROVISIONS FOR LOCAL OPERATION. SEE SPECIAL PROVISIONS SECTIONS 2.23 - 2.27.

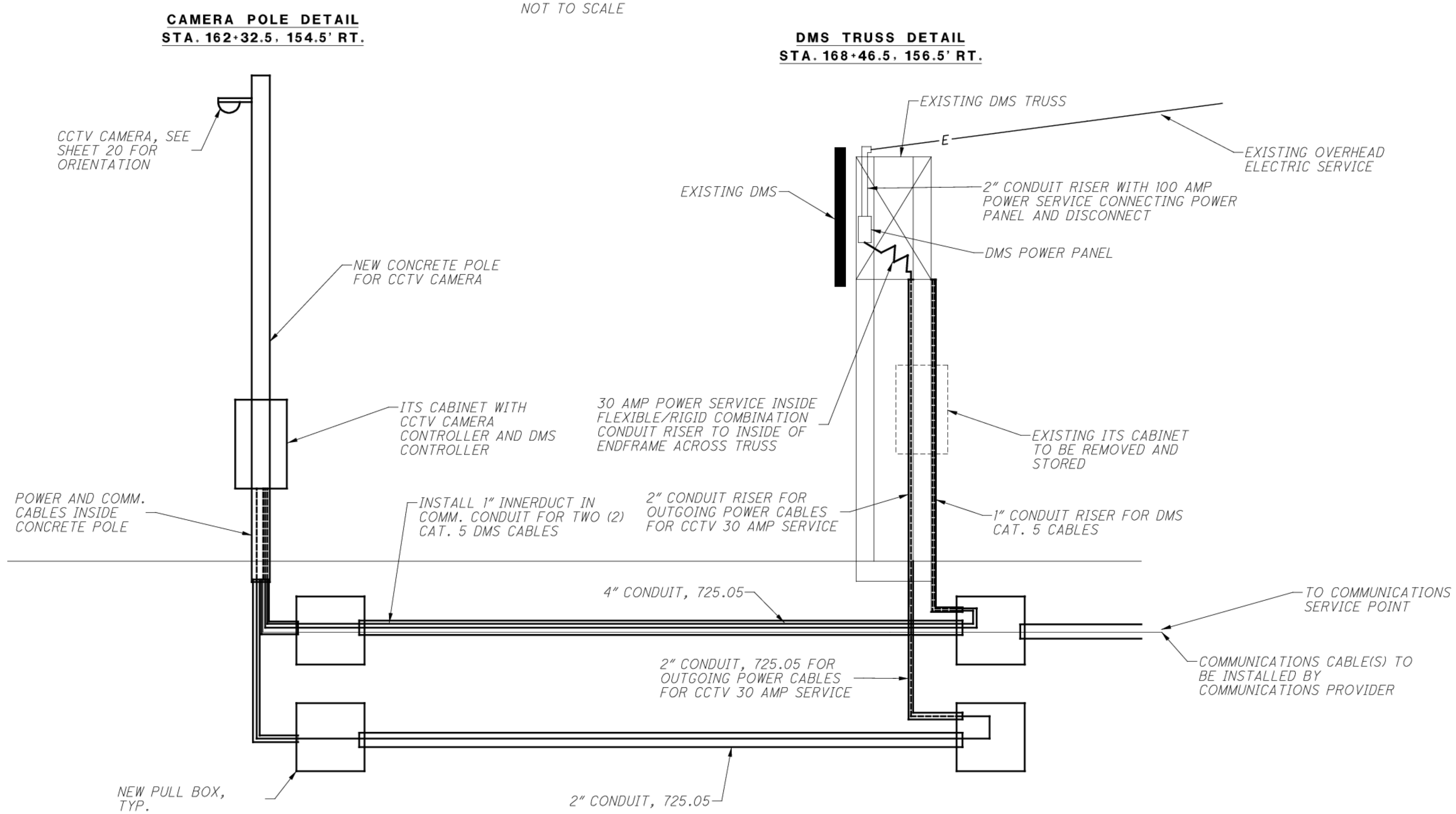
ODOT:
FURNISH AND INSTALL NETWORK SWITCH, AND SMART UPS FOR THE ITS CABINET MOUNTED ON THE CCTV POLE.

TEST NETWORK CONNECTION FOR PROPER OPERATION AS PER SPECIAL PROVISIONS.

TW TELECOM:
FURNISH AND INSTALL COMMUNICATION SERVICE CABLE TO ITS CABINET FROM TW TELECOM SERVICE POINT.

SITE #18 WIRING DETAIL

NOT TO SCALE



REFER TO SHEETS 7-8 FOR PULL BOX AND CONDUIT DETAILS

REFER TO SHEETS 9-10 FOR WORK PAD DETAILS

REFER TO SHEETS 11-15 FOR ELECTRICAL DETAILS

REFER TO SHEET 16 FOR COMMUNICATION SERVICE DETAILS

REFER TO SHEETS 18-19 FOR TYPICAL CCTV CAMERA POLE DETAILS

REFER TO SHEET 20 FOR POLE ORIENTATION CHART

REFER TO SHEET 21 FOR TYPICAL DMS DETAILS

REFER TO SHEET 25 FOR TYPICAL DMS TRUSS FOUNDATION DETAILS

REFER TO SHEETS 28-29 FOR TYPICAL DMS TRUSS DETAILS

REFER TO SHEET 114 FOR COMMUNICATIONS PLAN OVERVIEW

REFER TO SHEET 117 FOR FIELD CABINET LAYOUT

SITE #18 - WAR-75-40.14 - DETAIL
I-75 AND PENNYROYAL RD

0 25 50 100
HORIZONTAL SCALE IN FEET

CALCULATED RTM
CHECKED MJH

VAR-Dayton Springfield Freeway Management System

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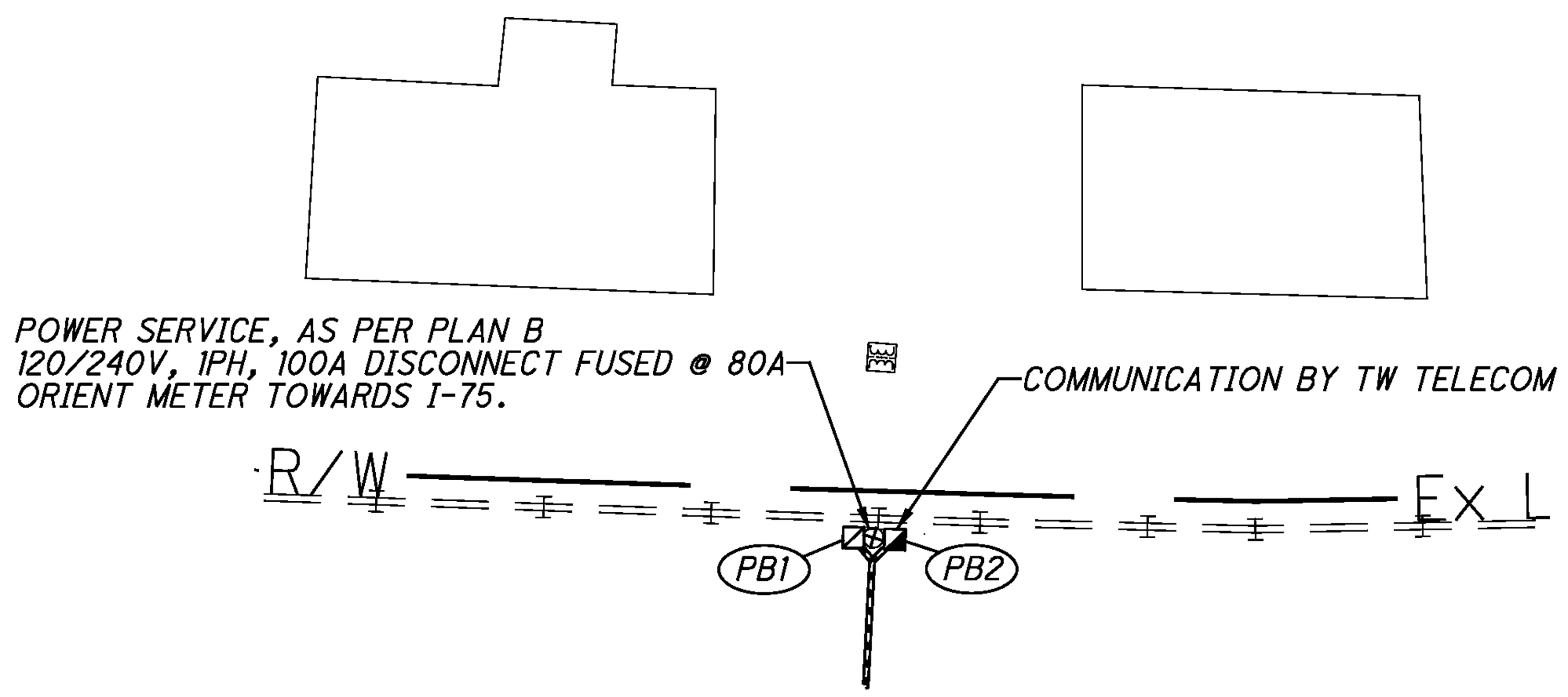
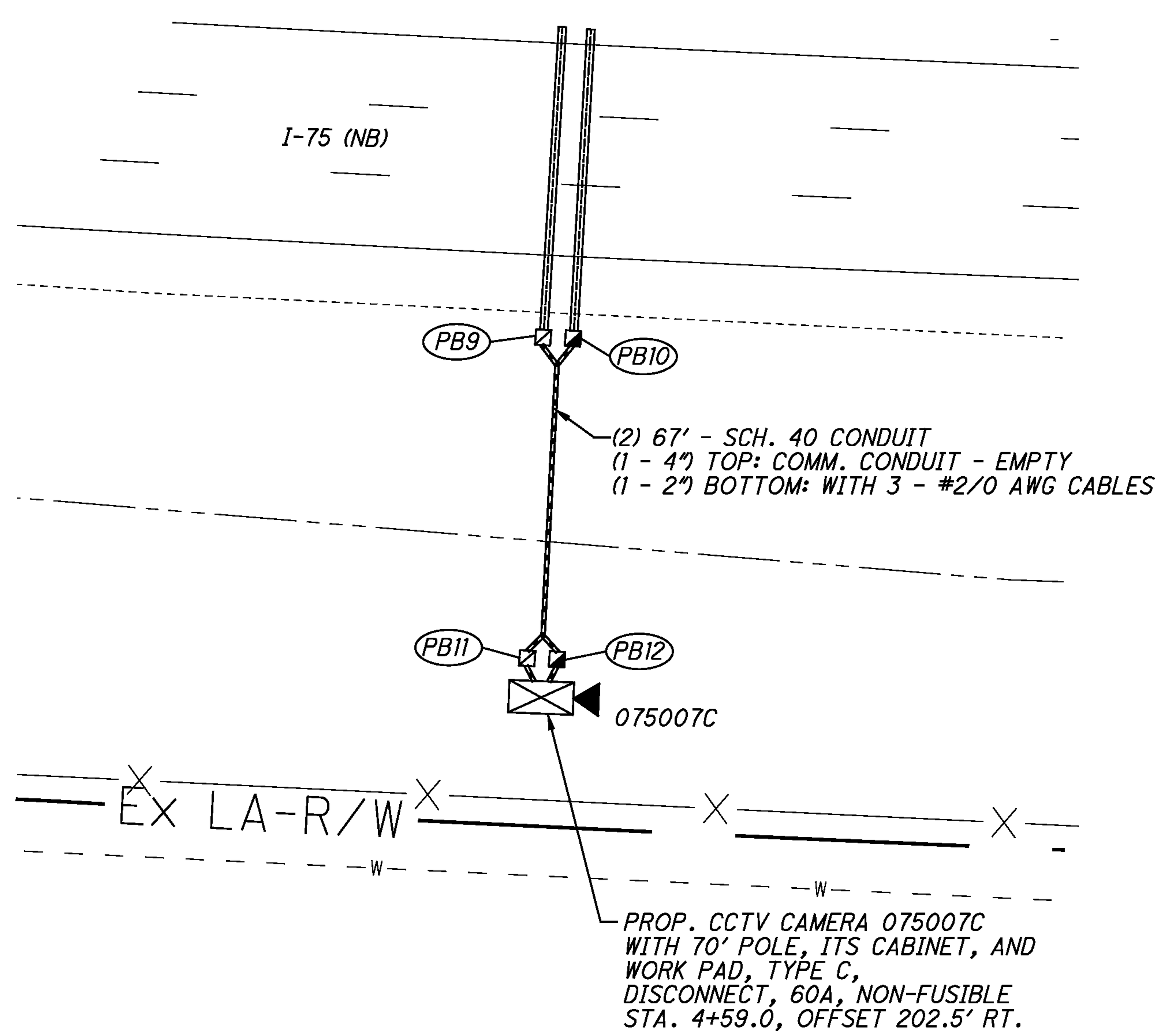
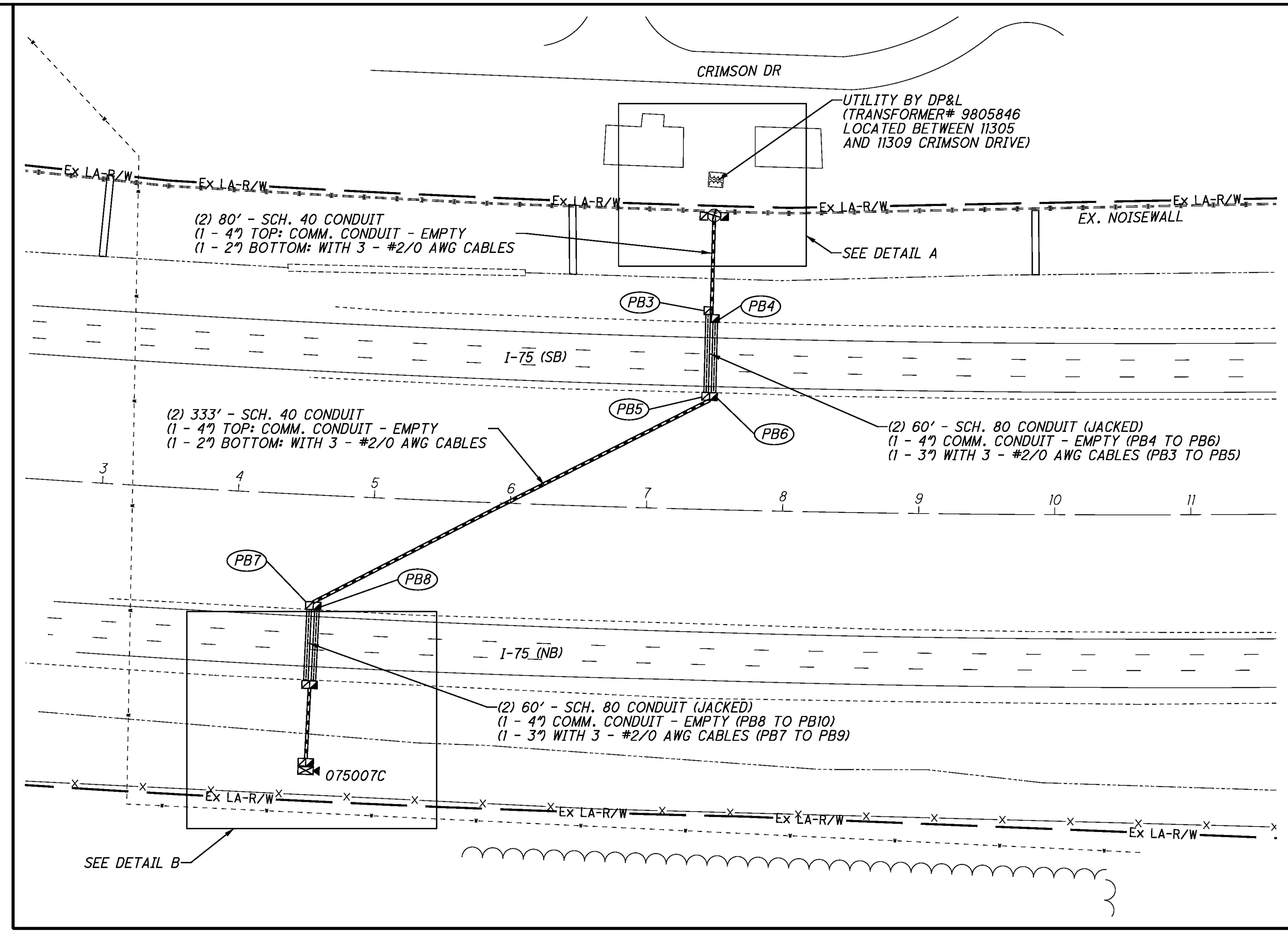
DETAIL A - NOT TO SCALE



DETAIL B - NOT TO SCALE





REFER TO SHEETS 7-8 FOR PULL BOX AND CONDUIT DETAILS

REFER TO SHEETS 9-10 FOR WORK PAD DETAILS

REFER TO SHEETS 11-15 FOR ELECTRICAL DETAILS

REFER TO SHEET 16 FOR COMMUNICATION SERVICE DETAILS

REFER TO SHEETS 18-19 FOR TYPICAL CCTV CAMERA POLE DETAILS

REFER TO SHEET 20 FOR POLE ORIENTATION CHART

REFER TO SHEET 114 FOR COMMUNICATIONS PLAN OVERVIEW

REFER TO SHEET 115 FOR FIELD CABINET LAYOUT

PB1 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 7+39.0, 215.0' LT.

PB2 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 7+49.0, 215.0' LT

PB3 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 7+41.6, 146.5' LT.

PB4 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 7+47.0, 140.5' LT.

PB5 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 7+44.5, 83.0' LT.

PB6 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 7+44.5, 83.0' LT.

PB7 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 4+59.0, 81.5' RT.

PB8 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 4+59.0, 81.5' RT.

PB9 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 4+59.0, 139.0' RT.

PB10 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 4+59.0, 139.0' RT.

PB11 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 4+59.0, 196.5' RT.

PB12 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 4+59.0, 196.5' RT.

SUB-SUMMARY

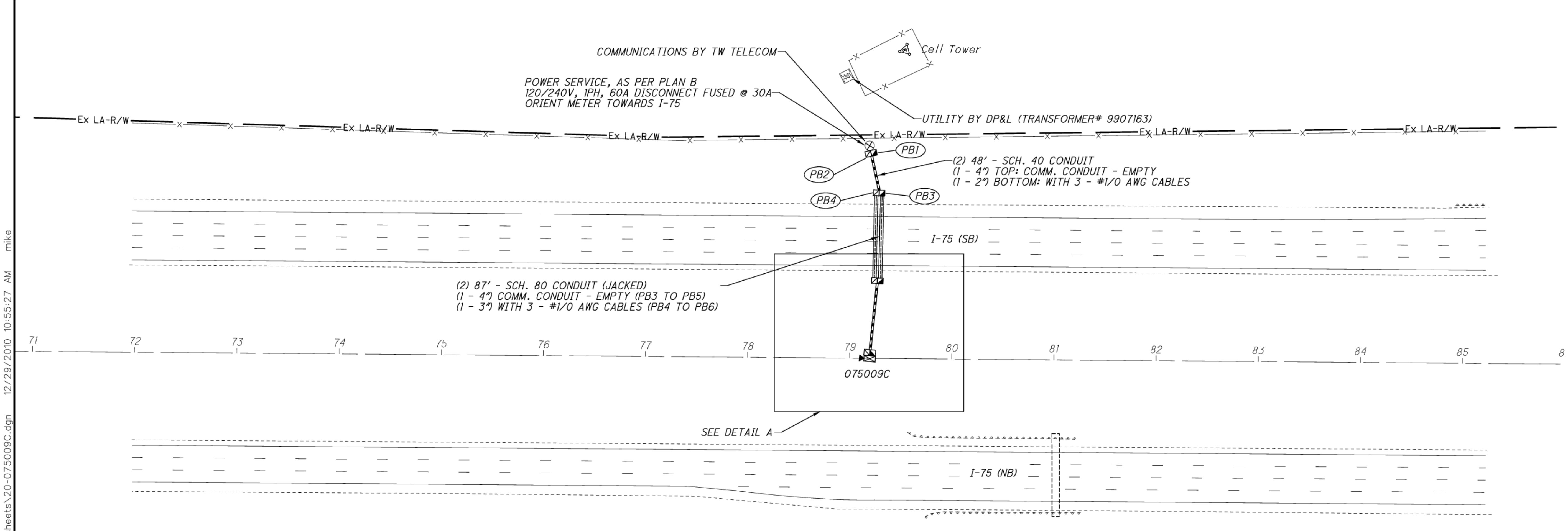
ITEM	TOTAL	UNIT	DESCRIPTION
625	2010	FT	NO. 2/0 AWG 5000 VOLT DISTRIBUTION CABLE
625	480	FT	CONDUIT, 2", 725.05, AS PER PLAN
625	480	FT	CONDUIT, 4", 725.05, AS PER PLAN
625	120	FT	CONDUIT JACKED OR DRILLED, 3", AS PER PLAN
625	120	FT	CONDUIT JACKED OR DRILLED, 4", AS PER PLAN
625	480	FT	TRENCH, 24" DEEP
625	6	EACH	PULL BOX, 725.08, 18", AS PER PLAN, TYPE A (ELECTRIC)
625	6	EACH	PULL BOX, MISC.: PULL BOX, 725.08, 32", TYPE B (TRAFFIC)
625	1	EACH	GROUND ROD
625	1	EACH	POWER SERVICE, AS PER PLAN B
631	1	EACH	SIGN LIGHTING, MISC.: DISCONNECT SWITCH, 60A
632	1	EACH	SIGNALIZATION, MISC.: CCTV IP - CAMERA SYSTEM, CISCO VSOM 4.2 COMPATIBLE, UNPRESSURIZED
632	1	EACH	SIGNALIZATION, MISC.: CCTV POLE, TYPE A (70 FT.), WITH LOWERING DEVICE
632	1	EACH	SIGNALIZATION, MISC.: DEVICE WORK PAD, TYPE C
633	1	EACH	CONTROLLER ITEM, MISC.: FIELD EQUIPMENT CABINET, ITS CABINET

0 25 50 100
HORIZONTAL SCALE IN FEET

CALCULATED RTM
CHECKED MJH

SITE PLAN #19 - MOT-75-41.02
I-75 SOUTH OF AUSTIN BOULEVARD

VAR-Dayton Springfield Freeway Management System



SUB-SUMMARY			
ITEM	TOTAL	UNIT	DESCRIPTION
625	880	FT	NO. 1/0 AWG 5000 VOLT DISTRIBUTION CABLE
625	130	FT	CONDUIT, 2", 725.05, AS PER PLAN
625	130	FT	CONDUIT, 4", 725.05, AS PER PLAN
625	90	FT	CONDUIT JACKED OR DRILLED, 3", AS PER PLAN
625	90	FT	CONDUIT JACKED OR DRILLED, 4", AS PER PLAN
625	130	FT	TRENCH, 24" DEEP
625	4	EACH	PULL BOX, 725.08, 18", AS PER PLAN, TYPE A (ELECTRIC)
625	4	EACH	PULL BOX, MISC.: PULL BOX, 725.08, 32", TYPE B (TRAFFIC)
625	1	EACH	GROUND ROD
625	1	EACH	POWER SERVICE, AS PER PLAN B
631	1	EACH	SIGN LIGHTING, MISC.: DISCONNECT SWITCH, 60A
632	1	EACH	SIGNALIZATION, MISC.: CCTV IP - CAMERA SYSTEM, CISCO VSOM 4.2 COMPATIBLE, UNPRESSURIZED
632	1	EACH	SIGNALIZATION, MISC.: CCTV POLE, TYPE A (70 FT.), WITH LOWERING DEVICE
632	1	EACH	SIGNALIZATION, MISC.: DEVICE WORK PAD, TYPE C
633	1	EACH	CONTROLLER ITEM, MISC.: FIELD EQUIPMENT CABINET, ITS CABINET

PB1 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 79+19.5, 200.5' LT.

PB2 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 79+19.5, 200.5' LT.

PB3 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 79+27.5, 162.0' LT.

PB4 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 79+27.5, 162.0' LT.

PB5 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 79+26.5, 75.5' LT.

PB6 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 79+26.5, 75.5' LT.

PB7 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 79+19.5, 5.5' LT.

PB8 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 79+19.5, 5.5' LT.

REFER TO SHEETS 7-8 FOR PULL BOX AND CONDUIT DETAILS

REFER TO SHEETS 9-10 FOR WORK PAD DETAILS

REFER TO SHEETS 11-15 FOR ELECTRICAL DETAILS

REFER TO SHEET 16 FOR COMMUNICATION SERVICE DETAILS

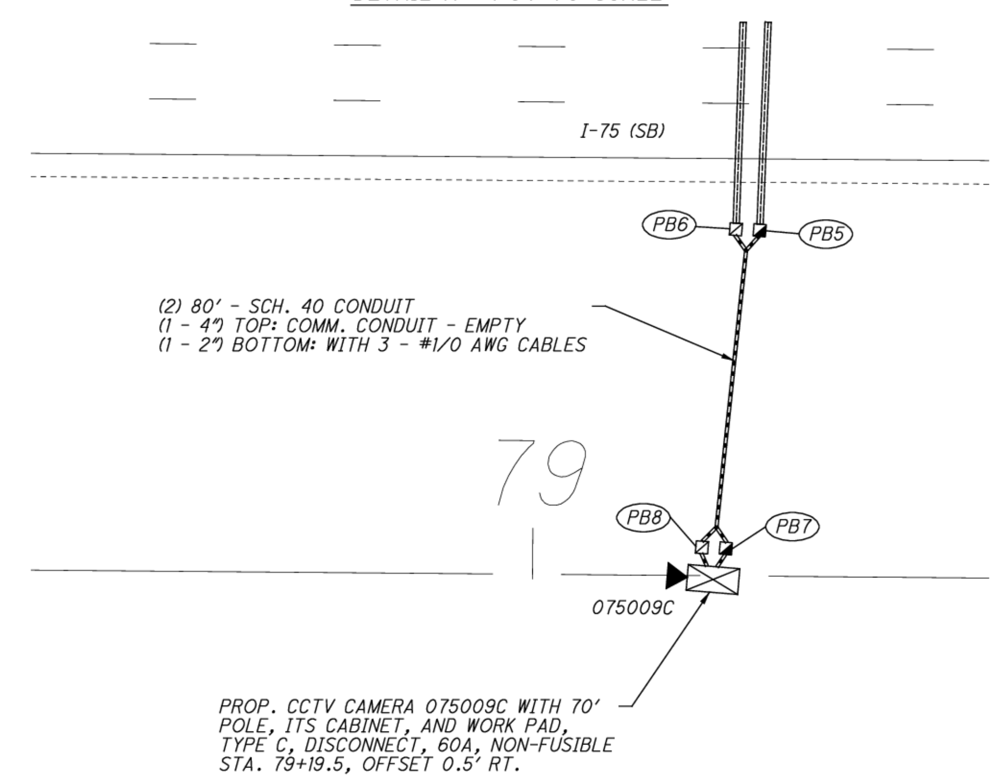
REFER TO SHEETS 18-19 FOR TYPICAL CCTV CAMERA POLE DETAILS

REFER TO SHEET 20 FOR POLE ORIENTATION CHART

REFER TO SHEET 114 FOR COMMUNICATIONS PLAN OVERVIEW

REFER TO SHEET 115 FOR FIELD CABINET LAYOUT

DETAIL A - NOT TO SCALE

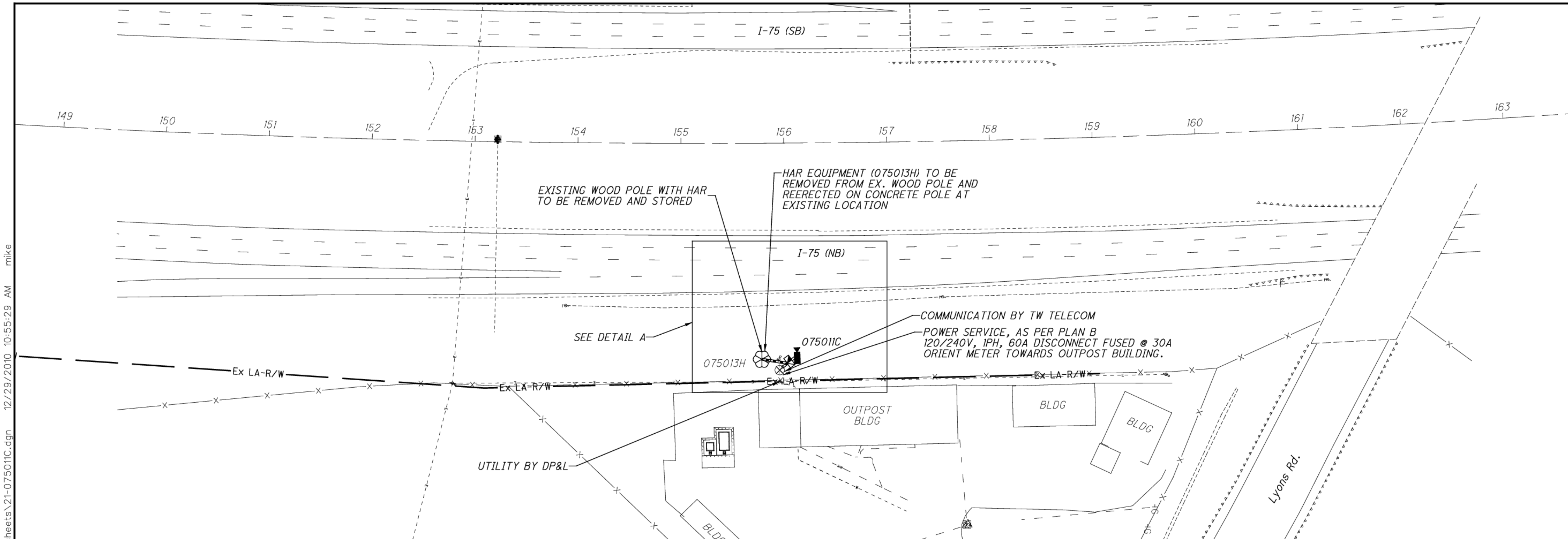


0 25 50 100
HORIZONTAL SCALE IN FEET

CALCULATED RTM
CHECKED MJH

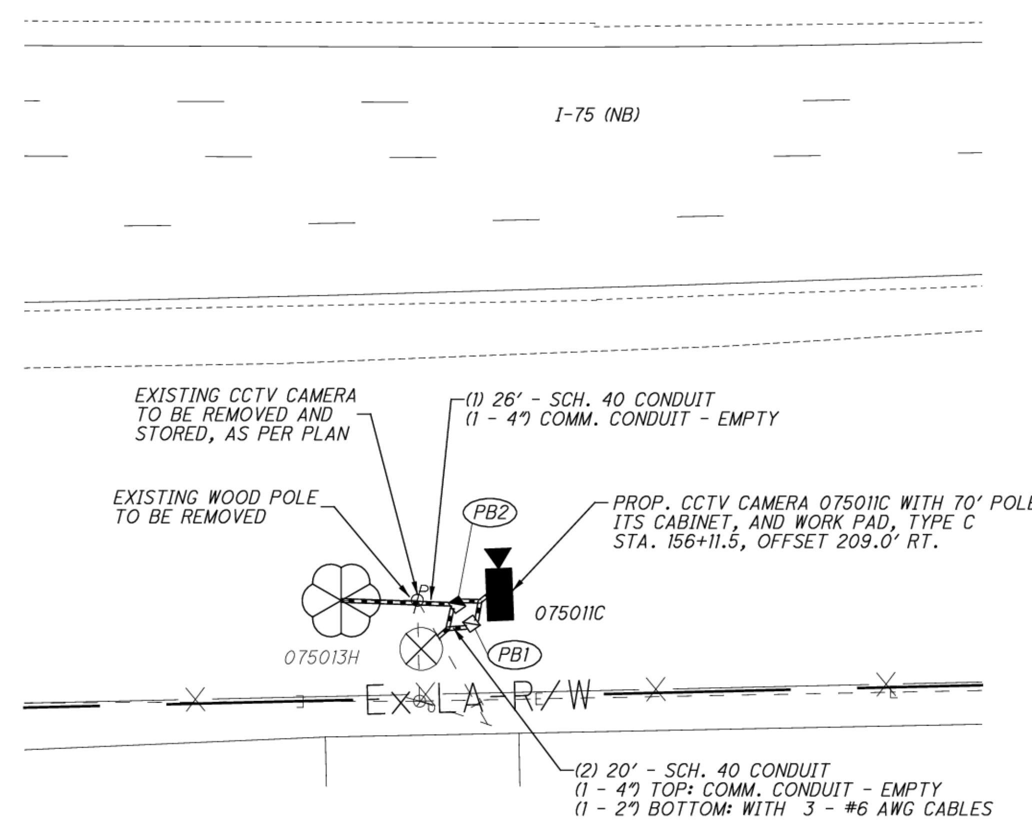
SITE PLAN #20 - MOT-75-42.40
I-75 SOUTH OF I-675

VAR-Dayton Springfield Freeway Management System



DETAIL A - NOT TO SCALE

SEE SHEET 68 FOR WIRING INFORMATION



REFER TO SHEETS 7-8 FOR PULL BOX AND CONDUIT DETAILS

REFER TO SHEETS 9-10 FOR WORK PAD DETAILS

REFER TO SHEETS 11-15 FOR ELECTRICAL DETAILS

REFER TO SHEET 16 FOR COMMUNICATION SERVICE DETAILS

REFER TO SHEET 17 FOR TYPICAL HAR DETAILS

REFER TO SHEETS 18-19 FOR TYPICAL CCTV CAMERA POLE DETAILS

REFER TO SHEET 20 FOR POLE ORIENTATION CHART

REFER TO SHEET 114 FOR COMMUNICATIONS PLAN OVERVIEW

REFER TO SHEET 118 FOR FIELD CABINET LAYOUT

PB1 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 156+04.5, 212.5' RT.

PB2 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 156+04.5, 212.5' RT.

N

0 25 50 100 HORIZONTAL SCALE IN FEET

CALCULATED RTM

CHECKED MJH

SITE PLAN #21 - MOT-75-43.88
I-75 AND LYONS RD

VAR-Dayton Springfield Freeway Management System

SUB-SUMMARY			
ITEM	TOTAL	UNIT	DESCRIPTION
625	240	FT	NO. 6 AWG 5000 VOLT DISTRIBUTION CABLE
625	30	FT	CONDUIT, 2", 725.05, AS PER PLAN
625	50	FT	CONDUIT, 4", 725.05, AS PER PLAN
625	50	FT	TRENCH, 24" DEEP
625	1	EACH	PULL BOX, 725.08, 18", AS PER PLAN, TYPE A (ELECTRIC)
625	1	EACH	PULL BOX, MISC.: PULL BOX, 725.08, 32", TYPE B (TRAFFIC)
625	2	EACH	GROUND ROD
625	1	EACH	POWER SERVICE, AS PER PLAN B
625	1	EACH	POWER SERVICE REMOVED
632	10	FT	INTERCONNECT CABLE, MISC.: INNERDUCT 1"
632	1	EACH	INTERCONNECT, MISC.: REMOVAL OF HIGHWAY ADVISORY RADIO ASSEMBLY AND REERECTION
632	1	EACH	REMOVAL OF MISC. TRAFFIC SIGNAL ITEM: REMOVAL OF EXISTING CCTV CAMERA ASSEMBLY AND STORAGE, AS PER PLAN
632	1	EACH	REMOVAL OF MISC. TRAFFIC SIGNAL ITEM: REMOVAL OF EXISTING ITS CABINET AND STORAGE, AS PER PLAN
632	2	EACH	REMOVAL OF MISC. TRAFFIC SIGNAL ITEM: REMOVAL OF WOOD POLE AND STORAGE, AS PER PLAN
632	1	EACH	SIGNALIZATION, MISC.: CCTV IP - CAMERA SYSTEM, CISCO VSOM 4.2 COMPATIBLE, UNPRESSURIZED
632	1	EACH	SIGNALIZATION, MISC.: CCTV POLE, TYPE A (70 FT.), WITH LOWERING DEVICE
632	1	EACH	SIGNALIZATION, MISC.: CONCRETE POLE, HAR SUPPORT
632	1	EACH	SIGNALIZATION, MISC.: DEVICE WORK PAD, TYPE C
633	1	EACH	CONTROLLER ITEM, MISC.: FIELD EQUIPMENT CABINET, ITS CABINET

REFER TO SHEETS 7-8 FOR PULL BOX AND CONDUIT DETAILS
REFER TO SHEETS 9-10 FOR WORK PAD DETAILS
REFER TO SHEETS 11-15 FOR ELECTRICAL DETAILS
REFER TO SHEET 16 FOR COMMUNICATION SERVICE DETAILS
REFER TO SHEET 17 FOR TYPICAL HAR DETAILS
REFER TO SHEETS 18-19 FOR TYPICAL CCTV CAMERA POLE DETAILS
REFER TO SHEET 20 FOR POLE ORIENTATION CHART
REFER TO SHEET 114 FOR COMMUNICATIONS PLAN OVERVIEW
REFER TO SHEET 118 FOR FIELD CABINET LAYOUT

PLAN CLARIFICATIONS

SITE #21: I-75 & LYONS RD.

CONTRACTOR:
CCTV CAMERA: CONSTRUCT A CCTV CAMERA SITE PER SITE PLAN, SHEETS 18 AND 19, SPECIAL PROVISIONS SECTIONS 3.22, 3.24/25, AND ANY OTHER PLANS OR SPECIAL PROVISIONS SECTIONS THAT MAY APPLY. NEW CCTV CAMERA POLE SHALL BE LOCATED AT STA. 156+11.5, OFFSET 209.0' RT AND SHALL BE ORIENTED PER ORIENTATION CHART ON SHEET 20. THE ITS CABINET ON THE EXISTING WOOD CAMERA POLE SHALL BE REMOVED AND STORED. A NEW ITS CABINET SHALL BE PROVIDED FOR ON THE CONCRETE CAMERA POLE AND HOST THE CCTV CONTROLLER AND THE HAR CONTROLLER. THE EXISTING CCTV CAMERA AND ANY RELATED EQUIPMENT SHALL BE REMOVED AND STORED. THE ITS CABINET SHALL BE CONNECTED TO 60 AMP POWER SERVICE.

HAR: THE HAR ANTENNA AND RELATED EQUIPMENT SHALL BE REMOVED FROM THE EXISTING WOOD POLE AND RELOCATED ON A NEW CONCRETE POLE IN THE SAME LOCATION. THE HAR ANTENNA CABLE SHALL RUN UNDERGROUND FROM THE HAR CONTROLLER IN THE NEW ITS CABINET ON THE CONCRETE CCTV POLE TO THE ANTENNA ON THE NEW CONCRETE POLE AS SHOWN IN THE PLANS. SEE SITE PLANS, SHEET 17, SPECIAL PROVISIONS SECTIONS 3.20 AND 3.21, AND ANY OTHER PLANS OR SPECIAL PROVISIONS THAT MAY BE APPLICABLE. THE EXISTING HAR AND CAMERA WOOD POLES SHALL BE REMOVED AND STORED.

POWER: CONSTRUCT POWER SERVICE, AS PER PLAN B, FOR THIS SITE. SEE SHEETS 11-16, 31, AND OTHER NECESSARY SHEETS FOR ELECTRICAL DETAILS. THE EXISTING POWER SERVICE SHALL BE REMOVED.

COORDINATE COMMUNICATION CONSTRUCTION WITH TW TELECOM.

LOCATIONS OF NEW PULL BOXES IN THE PLAN ARE APPROXIMATE AND WILL BE DETERMINED BY THE ENGINEER.

TEST EQUIPMENT AS PER SPECIAL PROVISIONS FOR LOCAL OPERATION. SEE SPECIAL PROVISIONS SECTIONS 2.23 - 2.27.

ODOT:
FURNISH AND INSTALL NETWORK SWITCH, AND SMART UPS FOR THE ITS CABINET MOUNTED ON THE CCTV POLE.

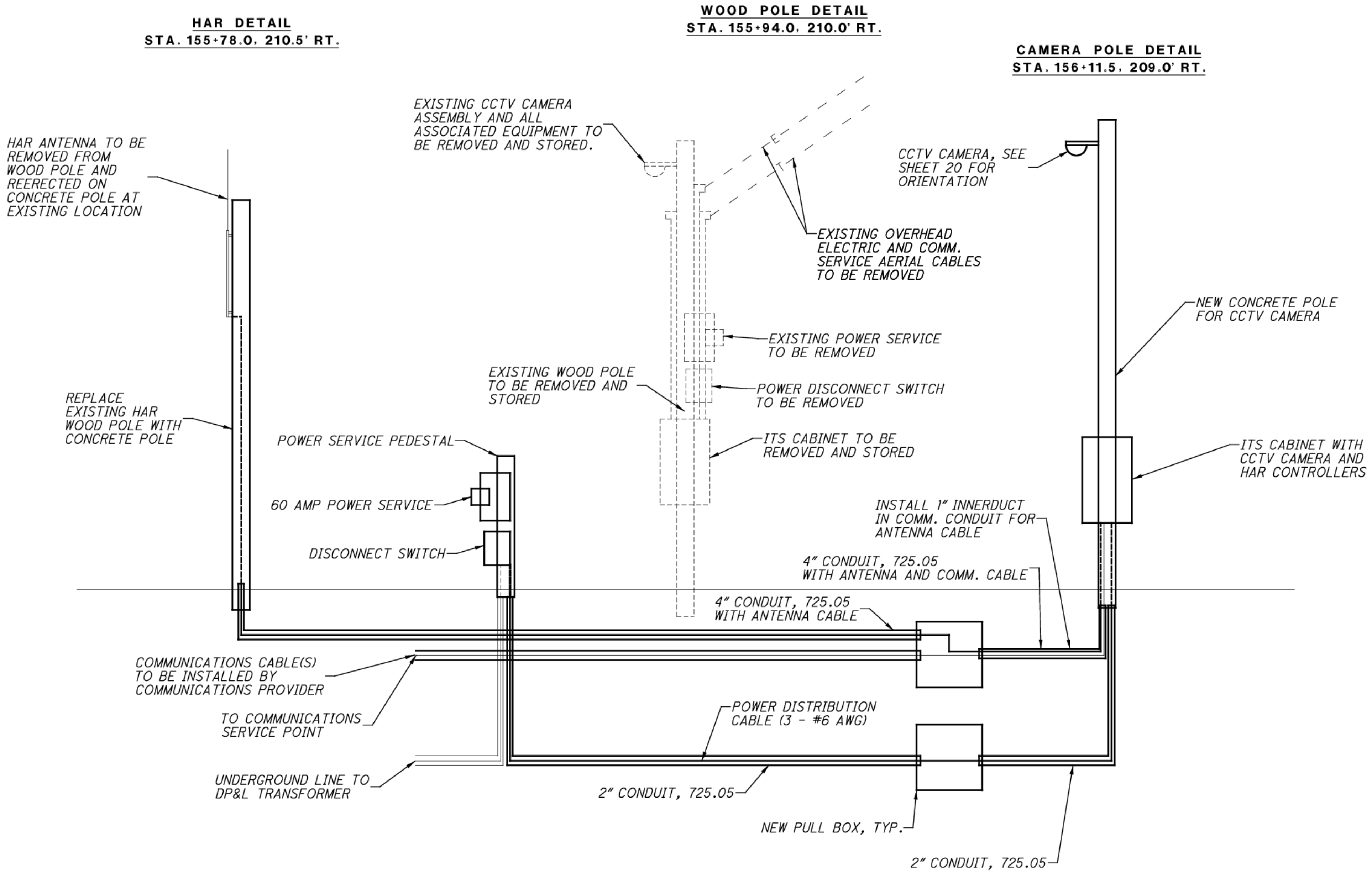
TEST NETWORK CONNECTION FOR PROPER OPERATION AS PER SPECIAL PROVISIONS.

DP&L:
CONNECT POWER FROM OVERHEAD TRANSFORMER TO GROUND MOUNTED POWER SERVICE PEDESTAL INSTALLED BY CONTRACTOR (POWER SERVICE AS PER PLAN B).

TW TELECOM:
FURNISH AND INSTALL COMMUNICATION SERVICE CABLE TO ITS CABINET FROM TW TELECOM SERVICE POINT.

SITE #21 WIRING DETAIL

NOT TO SCALE

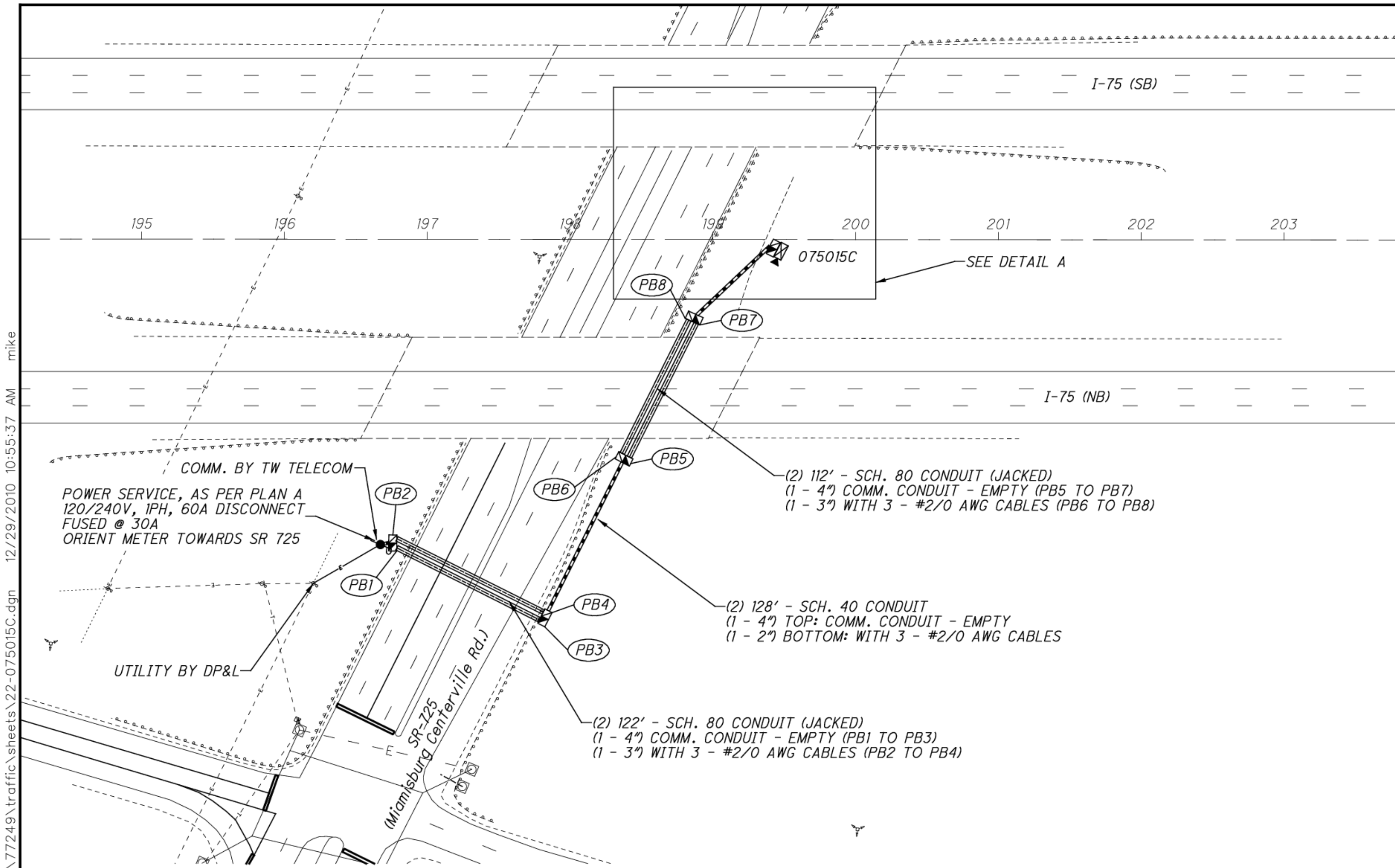


CALCULATED RTM
CHECKED MJH

HORIZONTAL SCALE IN FEET 0 25 50 100

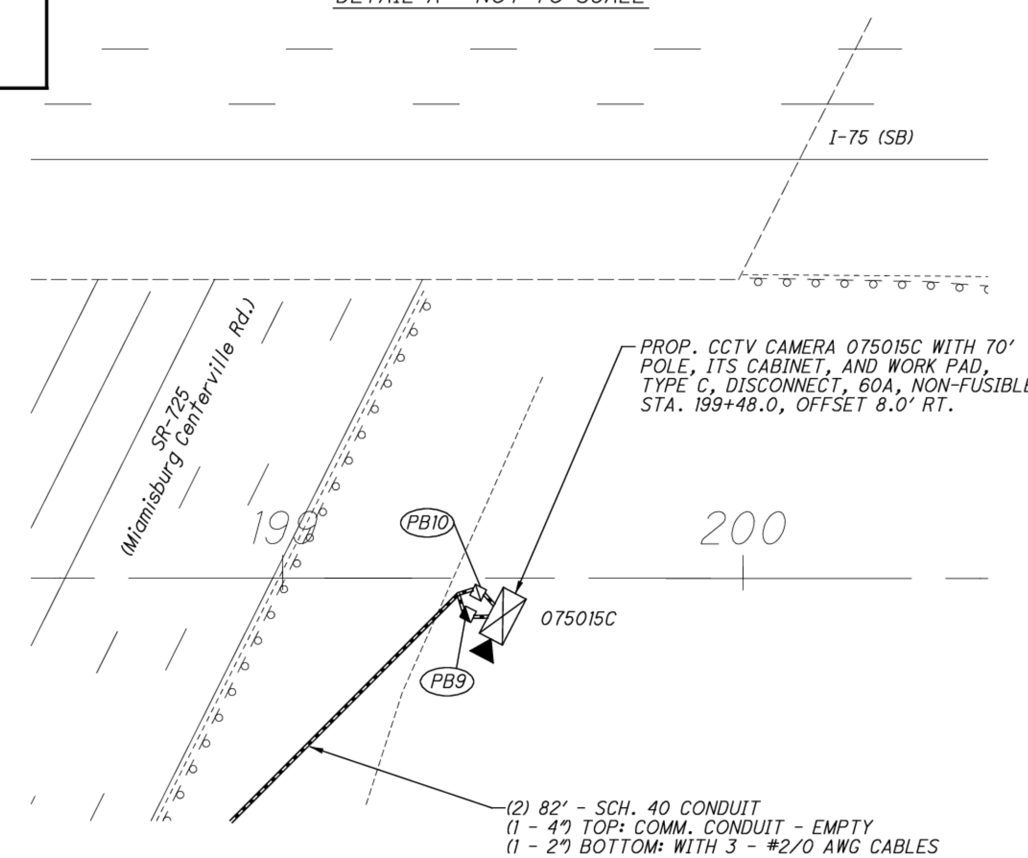
SITE #21 - MOT-75-43.88 - DETAIL
I-75 AND LYONS RD

VAR-Dayton Springfield Freeway Management System



REFER TO SHEETS 7-8 FOR PULL BOX AND CONDUIT DETAILS
REFER TO SHEETS 9-10 FOR WORK PAD DETAILS
REFER TO SHEETS 11-15 FOR ELECTRICAL DETAILS
REFER TO SHEET 16 FOR COMMUNICATION SERVICE DETAILS
REFER TO SHEETS 18-19 FOR TYPICAL CCTV CAMERA POLE DETAILS
REFER TO SHEET 20 FOR POLE ORIENTATION CHART
REFER TO SHEET 114 FOR COMMUNICATIONS PLAN OVERVIEW
REFER TO SHEET 115 FOR FIELD CABINET LAYOUT

DETAIL A - NOT TO SCALE



SUB-SUMMARY

ITEM	TOTAL	UNIT	DESCRIPTION
606	25	FT	GUARDRAIL, MISC.: GUARDRAIL REMOVED AND REPLACED
625	1580	FT	NO. 2/0 AWG 5000 VOLT DISTRIBUTION CABLE
625	220	FT	CONDUIT, 2", 725.05, AS PER PLAN
625	220	FT	CONDUIT, 4", 725.05, AS PER PLAN
625	230	FT	CONDUIT JACKED OR DRILLED, 3", AS PER PLAN
625	230	FT	CONDUIT JACKED OR DRILLED, 4", AS PER PLAN
625	220	FT	TRENCH, 24" DEEP
625	5	EACH	PULL BOX, 725.08, 18", AS PER PLAN, TYPE A (ELECTRIC)
625	5	EACH	PULL BOX, MISC.: PULL BOX, 725.08, 32", TYPE B (TRAFFIC)
625	1	EACH	GROUND ROD
625	1	EACH	POWER SERVICE, AS PER PLAN A
631	1	EACH	SIGN LIGHTING, MISC.: DISCONNECT SWITCH, 60A
632	1	EACH	SIGNALIZATION, MISC.: CCTV IP - CAMERA SYSTEM, CISCO VSOM 4.2 COMPATIBLE, UNPRESSURIZED
632	1	EACH	SIGNALIZATION, MISC.: CCTV POLE, TYPE A (70 FT.), WITH LOWERING DEVICE
632	1	EACH	SIGNALIZATION, MISC.: DEVICE WORK PAD, TYPE C
633	1	EACH	CONTROLLER ITEM, MISC.: FIELD EQUIPMENT CABINET, ITS CABINET

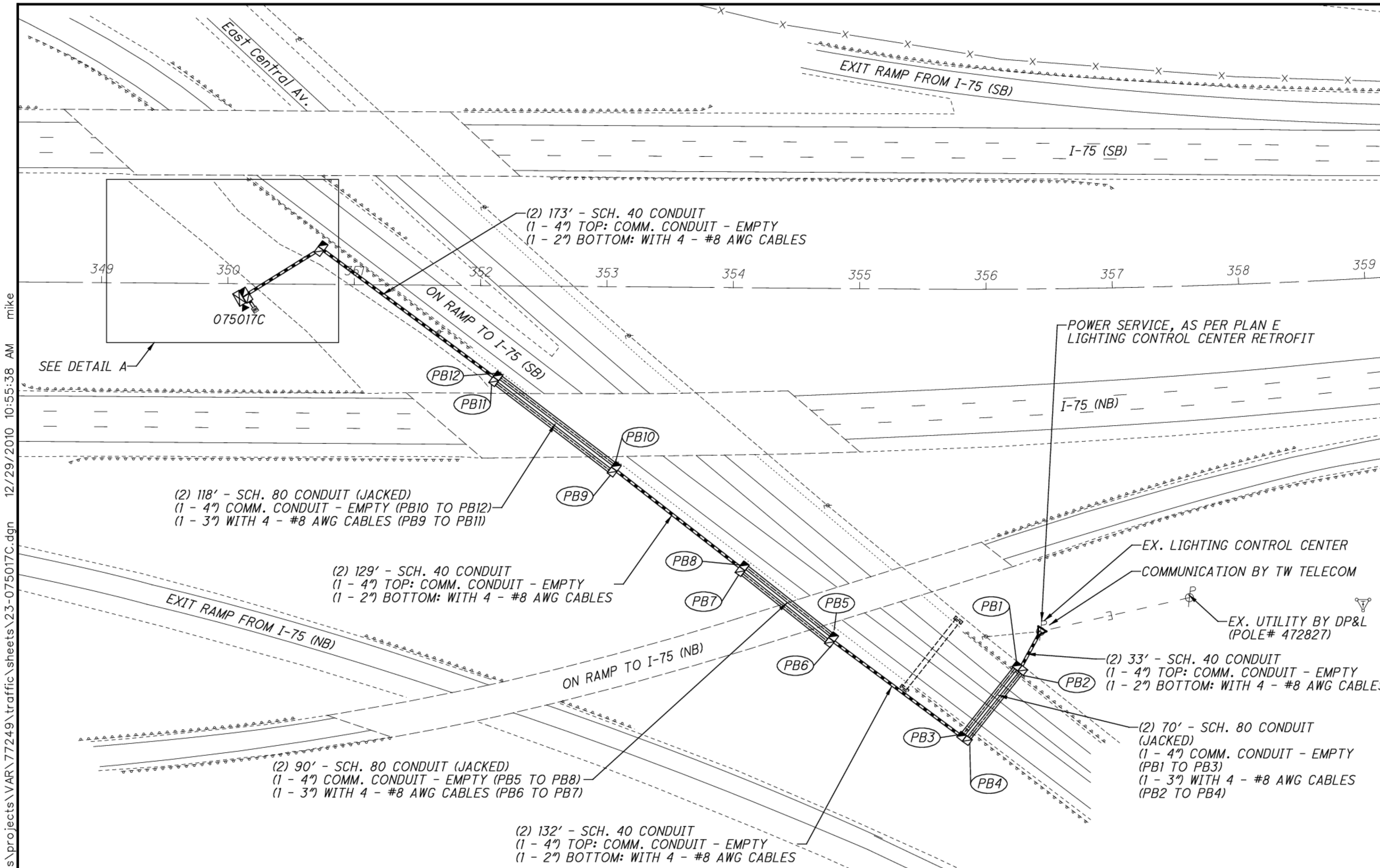
PB1 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 196+76.0, 212.5' RT.
PB2 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 196+76.0, 212.5' RT.
PB3 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 197+82.5, 265.0' RT.
PB4 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 197+82.5, 265.0' RT.
PB5 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 198+39.5, 153.5' RT.
PB6 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 198+39.5, 153.5' RT.
PB7 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 198+87.0, 55.0' RT.
PB8 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 198+87.0, 55.0' RT.
PB9 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 199+42.5, 6.0' RT.
PB10 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 199+42.5, 6.0' RT.

0 25 50 100 HORIZONTAL SCALE IN FEET

CALCULATED RTM
CHECKED MJH

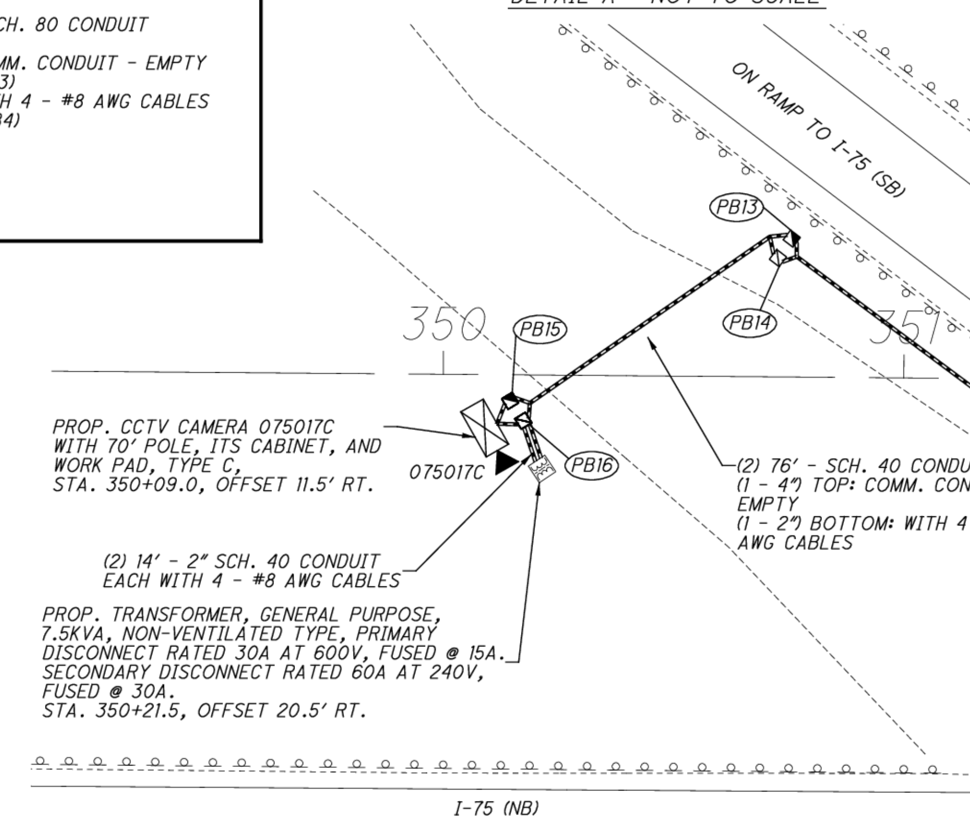
SITE PLAN #22 - MOT-75-44.71
I-75 AND SR-725

VAR-Dayton Springfield Freeway Management System



PB1 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 356+25.0, 300.0' RT
PB2 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 356+25.0, 300.0' RT.
PB3 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 355+83.0, 355.5' RT.
PB4 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 355+83.0, 355.5' RT.
PB5 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 354+80.0, 278.0' RT.
PB6 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 354+80.0, 278.0' RT.
PB7 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 354+09.0, 222.5' RT.
PB8 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 354+09.0, 222.5' RT
PB9 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 353+07.0, 144.5' RT.
PB10 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 353+07.0, 144.5' RT.
PB11 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 352+12.5, 73.5' RT.
PB12 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 352+12.5, 73.5' RT.
PB13 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 350+73.5, 28.5' LT.
PB14 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 350+73.5, 28.5' LT.
PB15 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 350+14.5, 9.0' RT.
PB16 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 350+14.5, 9.0' RT.

DETAIL A - NOT TO SCALE



SUB-SUMMARY

ITEM	TOTAL	UNIT	DESCRIPTION
606	25	FT	GUARDRAIL, MISC.: GUARDRAIL REMOVED AND REPLACED
625	3780	FT	DISTRIBUTION CABLE, MISC.: NO. 8 AWG 5000 VOLT DISTRIBUTION CABLE
625	580	FT	CONDUIT, 2", 725.05, AS PER PLAN
625	550	FT	CONDUIT, 4", 725.05, AS PER PLAN
625	280	FT	CONDUIT JACKED OR DRILLED, 3", AS PER PLAN
625	280	FT	CONDUIT JACKED OR DRILLED, 4", AS PER PLAN
625	560	FT	TRENCH, 24" DEEP
625	8	EACH	PULL BOX, 725.08, 18", AS PER PLAN, TYPE A (ELECTRIC)
625	8	EACH	PULL BOX, MISC.: PULL BOX, 725.08, 32", TYPE B (TRAFFIC)
625	1	EACH	GROUND ROD
625	1	EACH	POWER SERVICE, AS PER PLAN E (LIGHTING CONTROL CENTER MODIFIED)
632	1	EACH	SIGNALIZATION, MISC.: CCTV IP - CAMERA SYSTEM, CISCO VSOM 4.2 COMPATIBLE, UNPRESSURIZED
632	1	EACH	SIGNALIZATION, MISC.: CCTV POLE, TYPE A (70 FT.), WITH LOWERING DEVICE
632	1	EACH	SIGNALIZATION, MISC.: DEVICE WORK PAD, TYPE C
632	1	EACH	SIGNALIZATION, MISC.: TRANSFORMER, GENERAL PURPOSE, 7.5KVA, NON-VENTILATED TYPE
633	1	EACH	CONTROLLER ITEM, MISC.: FIELD EQUIPMENT CABINET, ITS CABINET

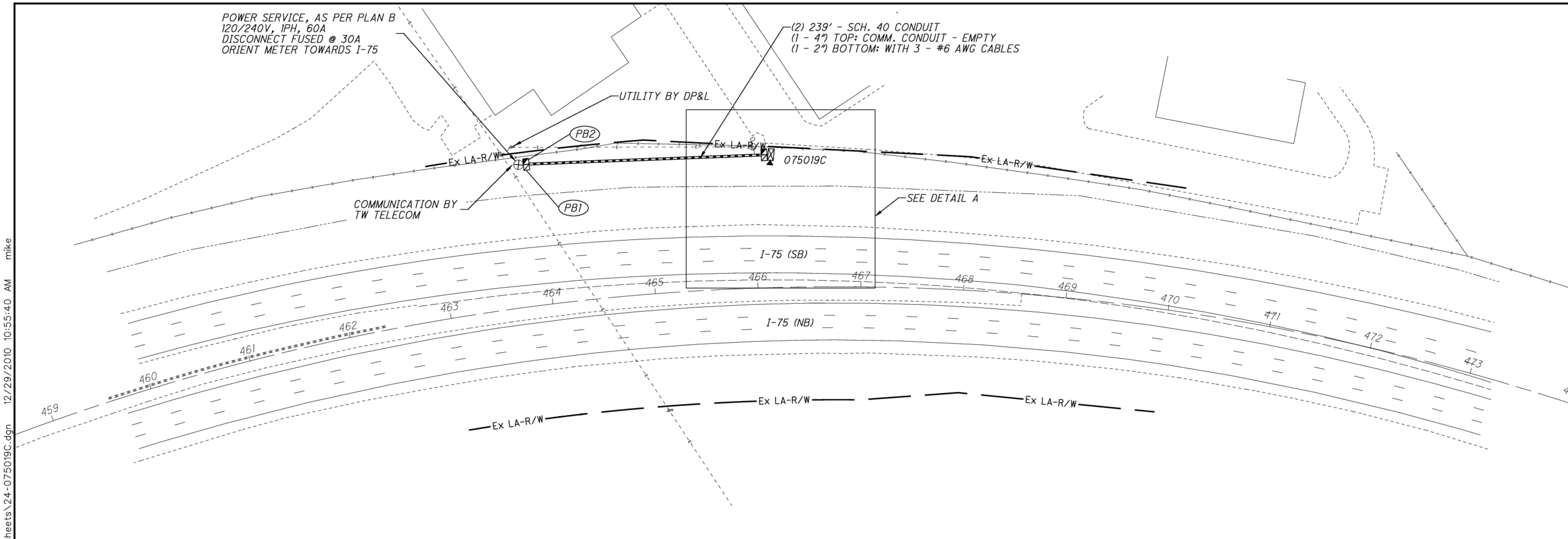
REFER TO SHEETS 7-8 FOR PULL BOX AND CONDUIT DETAILS
REFER TO SHEETS 9-10 FOR WORK PAD DETAILS
REFER TO SHEETS 11-15 FOR ELECTRICAL DETAILS
REFER TO SHEET 16 FOR COMMUNICATION SERVICE DETAILS
REFER TO SHEETS 18-19 FOR TYPICAL CCTV CAMERA POLE DETAILS
REFER TO SHEET 20 FOR POLE ORIENTATION CHART
REFER TO SHEET 114 FOR COMMUNICATIONS PLAN OVERVIEW
REFER TO SHEETS 115 FOR FIELD CABINET LAYOUT

0 25 50 100
HORIZONTAL SCALE IN FEET

CALCULATED RTM
CHECKED MJH

SITE PLAN #23 - MOT-75-47.54
I-75 AND EAST DIXIE DR

VAR-Dayton Springfield Freeway Management System



SUB-SUMMARY			
ITEM	TOTAL	UNIT	DESCRIPTION
625	920	FT	NO. 6 AWG 5000 VOLT DISTRIBUTION CABLE
625	240	FT	CONDUIT, 2", 725.05, AS PER PLAN
625	240	FT	CONDUIT, 4", 725.05, AS PER PLAN
625	240	FT	TRENCH, 24" DEEP
625	2	EACH	PULL BOX, 725.08, 18", AS PER PLAN, TYPE A (ELECTRIC)
625	2	EACH	PULL BOX, MISC.: PULL BOX, 725.08, 32", TYPE B (TRAFFIC)
625	1	EACH	GROUND ROD
625	1	EACH	POWER SERVICE, AS PER PLAN B
632	1	EACH	SIGNALIZATION, MISC.: CCTV IP - CAMERA SYSTEM, CISCO VSOM 4.2 COMPATIBLE, UNPRESSURIZED
632	1	EACH	SIGNALIZATION, MISC.: CCTV POLE, TYPE A (70 FT.), WITH LOWERING DEVICE
632	1	EACH	SIGNALIZATION, MISC.: DEVICE WORK PAD, TYPE C
633	1	EACH	CONTROLLER ITEM, MISC.: FIELD EQUIPMENT CABINET, ITS CABINET

REFER TO SHEETS 7-8 FOR PULL BOX AND CONDUIT DETAILS

REFER TO SHEETS 9-10 FOR WORK PAD DETAILS

REFER TO SHEETS 11-15 FOR ELECTRICAL DETAILS

REFER TO SHEET 16 FOR COMMUNICATION SERVICE DETAILS

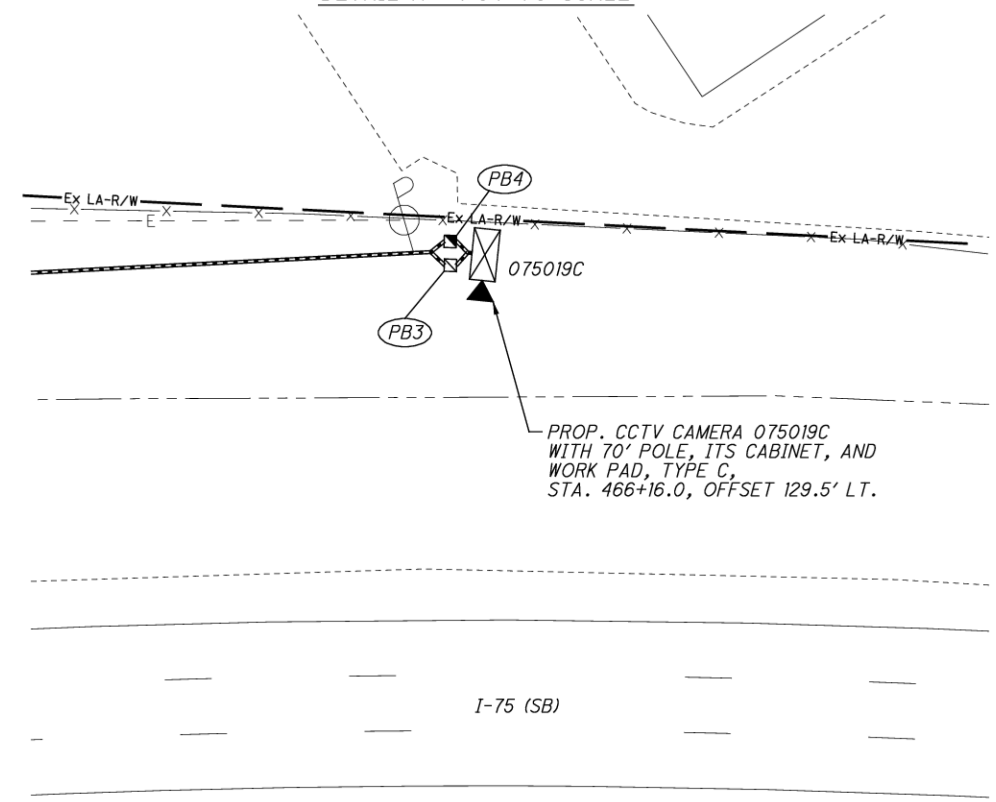
REFER TO SHEETS 18-19 FOR TYPICAL CCTV CAMERA POLE DETAILS

REFER TO SHEET 20 FOR POLE ORIENTATION CHART

REFER TO SHEET 114 FOR COMMUNICATIONS PLAN OVERVIEW

REFER TO SHEET 115 FOR FIELD CABINET LAYOUT

DETAIL A - NOT TO SCALE



PB1 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 463+91.0, 138.0' LT.

PB2 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 463+91.0, 138.0' LT.

PB3 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 466+08.0, 129.0' LT.

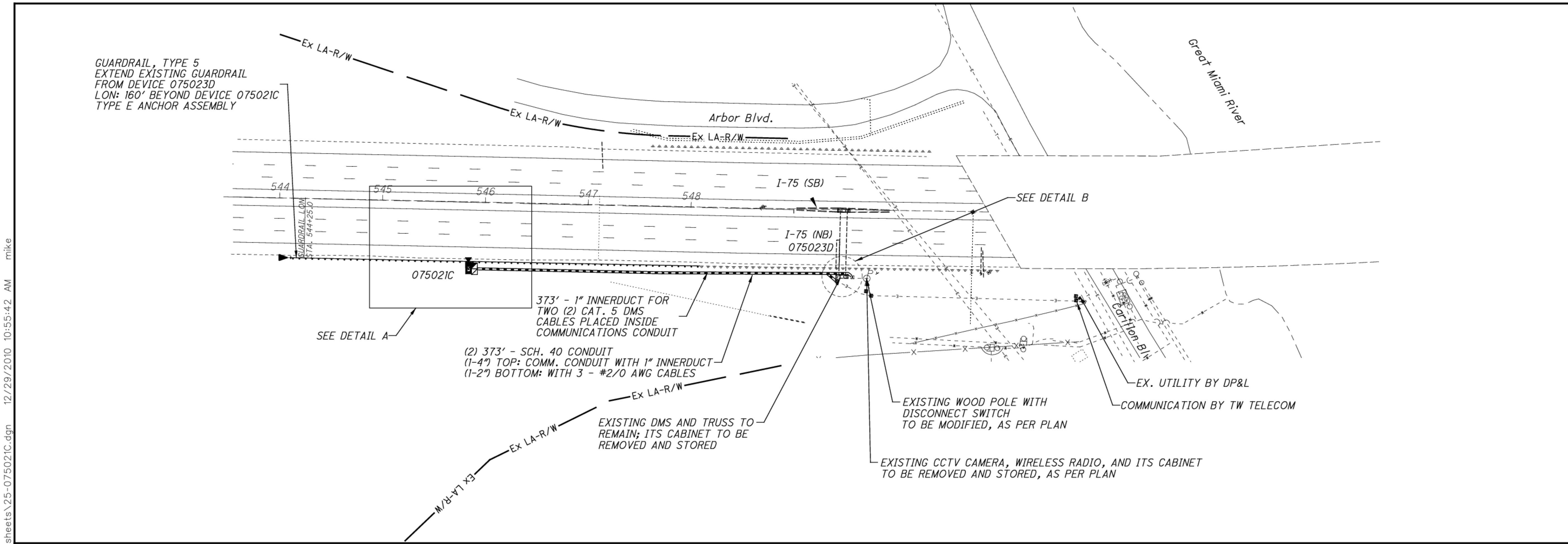
PB4 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 466+08.0, 129.0' LT.

0 25 50 100
HORIZONTAL SCALE IN FEET

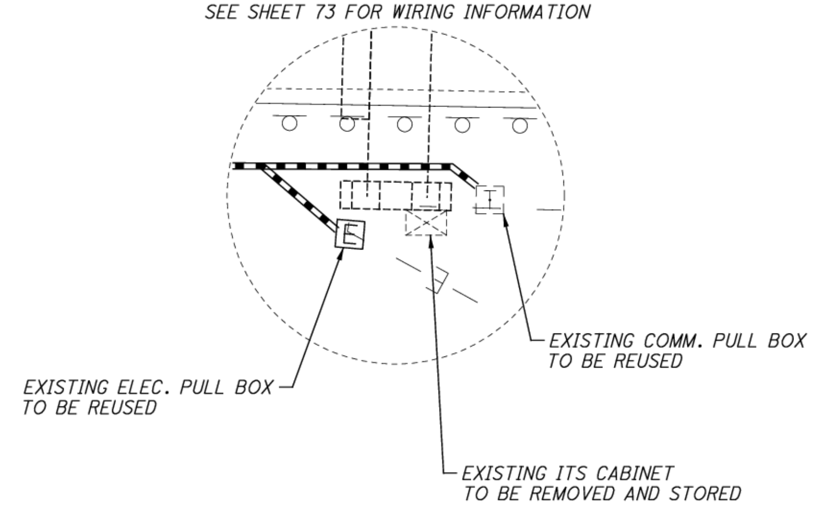
CALCULATED RTM
CHECKED MJH

SITE PLAN #24 - MOT-75-49.75
I-75 SOUTH OF DRYDEN RD

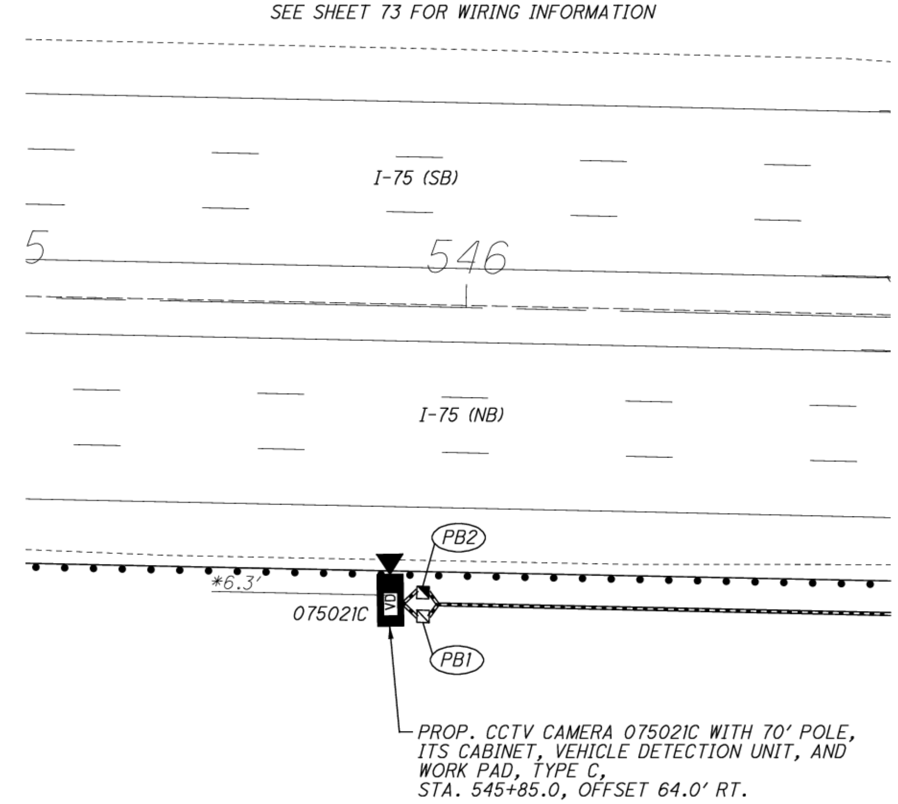
VAR-Dayton Springfield Freeway Management System



DETAIL B - NOT TO SCALE
SEE SHEET 73 FOR WIRING INFORMATION



DETAIL A - NOT TO SCALE
SEE SHEET 73 FOR WIRING INFORMATION



* PROPOSED OFFSET BETWEEN DEVICE AND FRONT OF GUARDRAIL.

(PB1) - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 545+92.5, 64.5' RT.
(PB2) - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 545+92.5, 64.5' RT.

REFER TO SHEETS 7-8 FOR PULL BOX AND CONDUIT DETAILS
REFER TO SHEETS 9-10 FOR WORK PAD DETAILS
REFER TO SHEETS 11-15 FOR ELECTRICAL DETAILS
REFER TO SHEET 16 FOR COMMUNICATION SERVICE DETAILS
REFER TO SHEETS 18-19 FOR TYPICAL CCTV CAMERA POLE DETAILS
REFER TO SHEET 20 FOR POLE ORIENTATION CHART
REFER TO SHEET 21 FOR TYPICAL DMS DETAILS
REFER TO SHEET 25 FOR TYPICAL DMS TRUSS FOUNDATION DETAILS
REFER TO SHEETS 28-29 FOR TYPICAL DMS TRUSS DETAILS
REFER TO SHEET 114 FOR COMMUNICATIONS PLAN OVERVIEW
REFER TO SHEET 120 FOR FIELD CABINET LAYOUT

HORIZONTAL SCALE IN FEET: 0 25 50 100

CALCULATED RTM
CHECKED MJH

SITE PLAN #25 - MOT-75-51.31
I-75 AND CARILLON BLVD

VAR-Dayton Springfield Freeway Management System

SUB-SUMMARY			
ITEM	TOTAL	UNIT	DESCRIPTION
202	1	EACH	ANCHOR ASSEMBLY REMOVED, AS PER PLAN
606	398	FT	GUARDRAIL, TYPE 5
606	1	EACH	ANCHOR ASSEMBLY, TYPE E
606	25	FT	GUARDRAIL, MISC.: GUARDRAIL REMOVED AND REPLACED
625	1410	FT	NO. 2/0 AWG 5000 VOLT DISTRIBUTION CABLE
625	360	FT	CONDUIT, 2", 725.05, AS PER PLAN
625	370	FT	CONDUIT, 4", 725.05, AS PER PLAN
625	360	FT	TRENCH, 24" DEEP
625	1	EACH	PULL BOX, 725.08, 18", AS PER PLAN, TYPE A (ELECTRIC)
625	1	EACH	PULL BOX, MISC.: PULL BOX, 725.08, 32", TYPE B (TRAFFIC)
625	1	EACH	GROUND ROD
625	2	EACH	PULL BOX CLEANED
630	81	SQ FT	SIGNING, MISC.: WIRE MESH FOR DMS TRUSS CATWALK
631	930	FT	SIGN LIGHTING, MISC.: DYNAMIC MESSAGE SIGN, CATEGORY FIVE CABLE
631	1	EACH	SIGN LIGHTING, MISC.: REMOVAL OF DYNAMIC MESSAGE SIGN CONTROLLER AND REERECTION
632	380	FT	INTERCONNECT CABLE, MISC.: INNERDUCT, 1"
632	1	EACH	CONDUIT RISER, 1" DIAMETER
632	1	EACH	CONDUIT RISER, 2" DIAMETER
632	1	EACH	REMOVAL OF MISC. TRAFFIC SIGNAL ITEM: REMOVAL OF EXISTING CCTV CAMERA ASSEMBLY AND STORAGE, AS PER PLAN
632	2	EACH	REMOVAL OF MISC. TRAFFIC SIGNAL ITEM: REMOVAL OF EXISTING ITS CABINET AND STORAGE, AS PER PLAN
632	1	EACH	REMOVAL OF MISC. TRAFFIC SIGNAL ITEM: REMOVAL OF EXISTING WIRELESS RADIO ASSEMBLY AND STORAGE, AS PER PLAN
632	2	EACH	REUSE OF TRAFFIC SIGNAL ITEM: REUSE OF PULL BOX, AS PER PLAN
632	1	EACH	REUSE OF TRAFFIC SIGNAL ITEM: WOOD POLE, AS PER PLAN
632	1	EACH	SIGNALIZATION, MISC.: CCTV IP - CAMERA SYSTEM, CISCO VSOM 4.2 COMPATIBLE, UNPRESSURIZED
632	1	EACH	SIGNALIZATION, MISC.: CCTV POLE, TYPE A (70 FT.), WITH LOWERING DEVICE
632	2	EACH	SIGNALIZATION, MISC.: VEHICLE DETECTION UNIT
632	1	EACH	SIGNALIZATION, MISC.: DEVICE WORK PAD, TYPE C
633	1	EACH	CONTROLLER ITEM, MISC.: FIELD EQUIPMENT CABINET, ITS CABINET

REFER TO SHEETS 7-8 FOR PULL BOX AND CONDUIT DETAILS

REFER TO SHEETS 9-10 FOR WORK PAD DETAILS

REFER TO SHEETS 11-15 FOR ELECTRICAL DETAILS

REFER TO SHEET 16 FOR COMMUNICATION SERVICE DETAILS

REFER TO SHEETS 18-19 FOR TYPICAL CCTV CAMERA POLE DETAILS

REFER TO SHEET 20 FOR POLE ORIENTATION CHART

REFER TO SHEET 21 FOR TYPICAL DMS DETAILS

REFER TO SHEET 25 FOR TYPICAL DMS TRUSS FOUNDATION DETAILS

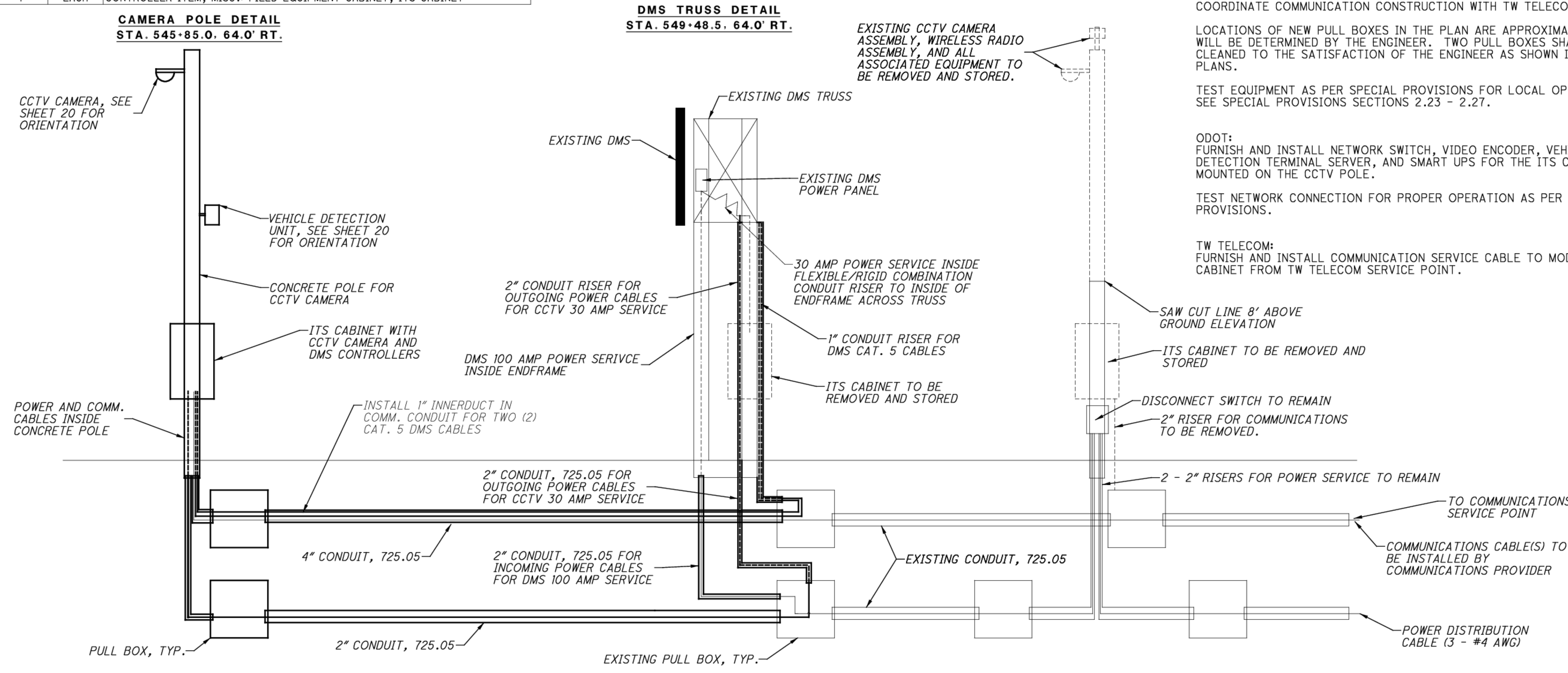
REFER TO SHEETS 28-29 FOR TYPICAL DMS TRUSS DETAILS

REFER TO SHEET 114 FOR COMMUNICATIONS PLAN OVERVIEW

REFER TO SHEET 120 FOR FIELD CABINET LAYOUT

SITE #25 WIRING DETAIL

NOT TO SCALE



PLAN CLARIFICATIONS

SITE #25: I-75 & CARILLON BLVD.

CONTRACTOR:
CCTV CAMERA: CONSTRUCT A CCTV CAMERA SITE PER SITE PLAN, SHEETS 18 AND 19, SPECIAL PROVISIONS SECTIONS 3.22, 3.24/25, AND ANY OTHER PLANS OR SPECIAL PROVISIONS SECTIONS THAT MAY APPLY. CCTV CAMERA POLE SHALL BE LOCATED AT STA. 545+85.0, OFFSET 64.0' RT AND BE ORIENTED PER ORIENTATION CHART ON SHEET 20. A NEW ITS CABINET SHALL BE CONSTRUCTED ON THE CONCRETE CAMERA POLE AND HOUSE THE CCTV AND EXISTING DMS CONTROLLER. THE ITS CABINET SHALL BE CONNECTED TO 30 AMP POWER SERVICE.

THE EXISTING ITS CABINET AND ANY CCTV CAMERA RELATED EQUIPMENT ON THE EXISTING CCTV WOOD POLE SHALL BE REMOVED AND STORED. EXISTING CCTV WOOD POLE SHALL BE SAW CUT 8' FEET ABOVE GROUND LEVEL. THE REMAINDER OF THE CCTV WOOD POLE SHALL BE REMOVED AND STORED.

DMS: THE EXISTING DMS SHALL REMAIN. CONSTRUCT WIRE MESH FOR DMS CATWALK. SEE SITE PLANS, SPECIAL PROVISIONS SECTION 3.11, AND ANY OTHER PLANS OR SPECIAL PROVISIONS THAT MAY BE APPLICABLE. THE ITS CABINET ON THE DMS ENDFRAME SHALL BE REMOVED AND STORED. THE EXISTING DMS CONTROLLER SHALL BE RELOCATED TO THE NEW ITS CABINET ON THE CONCRETE CAMERA POLE. TWO (2) NEW CAT-5 CABLES SHALL PROVIDE COMM. SERVICE FROM NETWORK SWITCH IN NEW ITS CABINET TO MAIN DMS CONTROLLER IN THE SIGN AND THEN BACK TO AUXILIARY CONTROL PANEL IN THE ITS CABINET ON CAMERA CONCRETE POLE VIA 1" INNERDUCT IN COMM. CONDUITS.

VEHICLE DETECTION UNIT: INSTALL A VEHICLE DETECTION UNIT ON THE CCTV POLE. REFER TO SITE PLANS, SPECIAL PROVISION SECTION 3.27, AND ANY OTHER PLANS OR SPECIAL PROVISIONS THAT MAY APPLY. ORIENT DEVICE ON CCTV POLE AS DIRECTED BY THE ENGINEER.

POWER: EXISTING 100 AMP POWER SERVICE TO THE DMS SHALL REMAIN. THE EXISTING DISCONNECT ON THE CCTV WOOD POLE SHALL REMAIN. 30 AMP POWER SERVICE SHALL BE PROVIDED TO THE NEW ITS CABINET ON CCTV CAMERA POLE FROM THE DMS POWER PANEL AS SHOWN IN THE SCHEMATIC ON THIS SHEET.

COORDINATE COMMUNICATION CONSTRUCTION WITH TW TELECOM.

LOCATIONS OF NEW PULL BOXES IN THE PLAN ARE APPROXIMATE AND WILL BE DETERMINED BY THE ENGINEER. TWO PULL BOXES SHALL BE CLEANED TO THE SATISFACTION OF THE ENGINEER AS SHOWN IN THE PLANS.

TEST EQUIPMENT AS PER SPECIAL PROVISIONS FOR LOCAL OPERATION. SEE SPECIAL PROVISIONS SECTIONS 2.23 - 2.27.

ODOT:
FURNISH AND INSTALL NETWORK SWITCH, VIDEO ENCODER, VEHICLE DETECTION TERMINAL SERVER, AND SMART UPS FOR THE ITS CABINET MOUNTED ON THE CCTV POLE.

TEST NETWORK CONNECTION FOR PROPER OPERATION AS PER SPECIAL PROVISIONS.

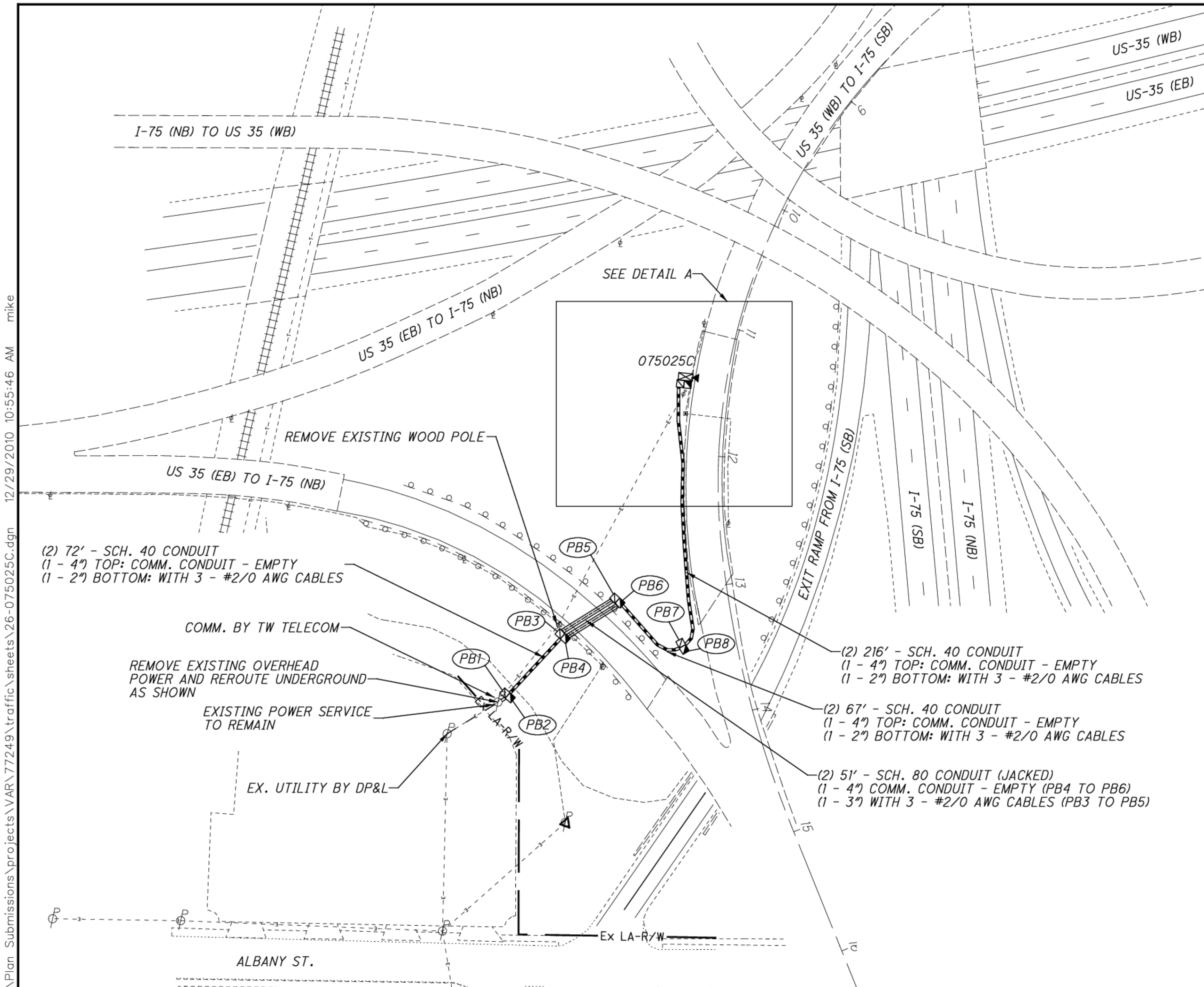
TW TELECOM:
FURNISH AND INSTALL COMMUNICATION SERVICE CABLE TO MODEM IN ITS CABINET FROM TW TELECOM SERVICE POINT.

HORIZONTAL SCALE IN FEET: 0 25 50 100

CALCULATED RTM
CHECKED MJH

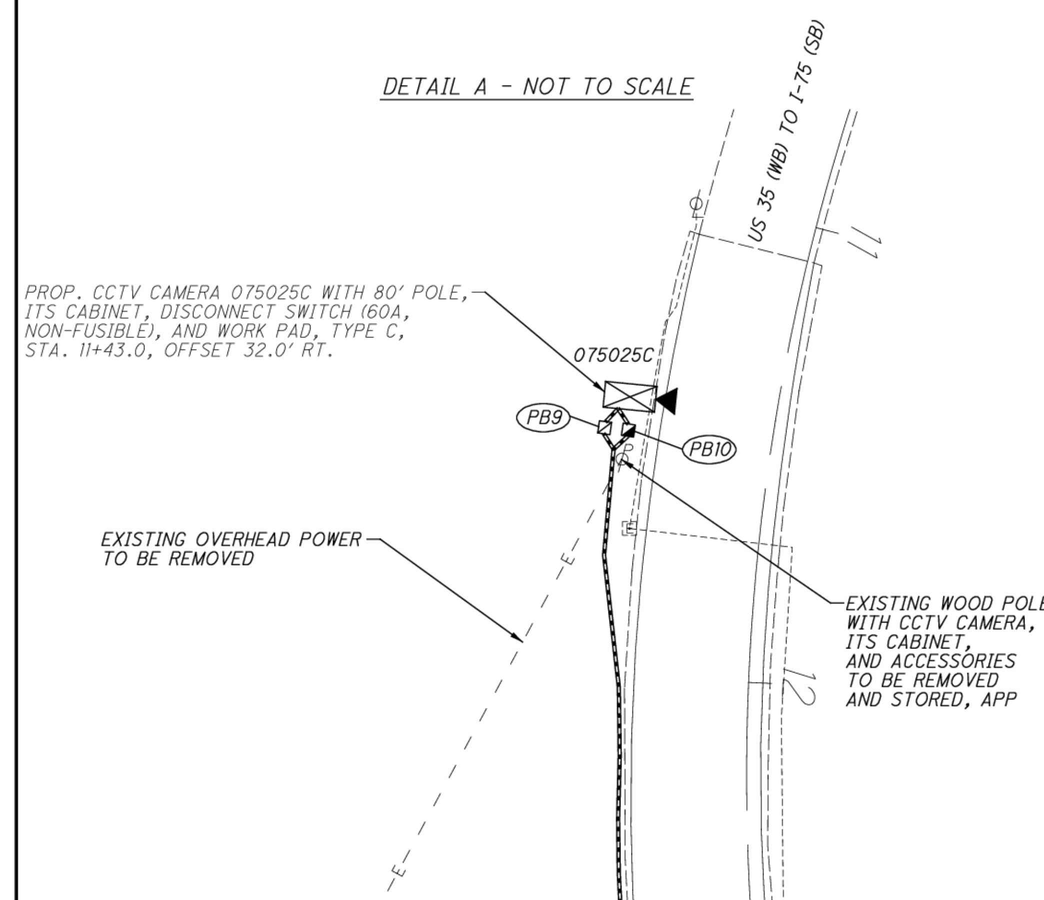
SITE #25 - MOT-75-51.31 - DETAILS
I-75 AND CARILLON BLVD

VAR-Dayton Springfield Freeway Management System



SUB-SUMMARY			
ITEM	TOTAL	UNIT	DESCRIPTION
202	340	FT	REMOVAL, MISC.: AERIAL DISTRIBUTION CABLE REMOVED
606	25	FT	GUARDRAIL, MISC.: GUARDRAIL REMOVED AND REPLACED
625	1460	FT	NO. 2/0 AWG 5000 VOLT DISTRIBUTION CABLE
625	360	FT	CONDUIT, 2", 725.05, AS PER PLAN
625	360	FT	CONDUIT, 4", 725.05, AS PER PLAN
625	60	FT	CONDUIT JACKED OR DRILLED, 3", AS PER PLAN
625	60	FT	CONDUIT JACKED OR DRILLED, 4", AS PER PLAN
625	360	FT	TRENCH, 24" DEEP
625	5	EACH	PULL BOX, 725.08, 18", AS PER PLAN, TYPE A (ELECTRIC)
625	5	EACH	PULL BOX, MISC.: PULL BOX, 725.08, 32", TYPE B (TRAFFIC)
625	1	EACH	GROUND ROD
625	1	EACH	LIGHTING, MISC.: REUSE OF EXISTING POWER SERVICE
631	1	EACH	SIGN LIGHTING, MISC.: DISCONNECT SWITCH, 60A
632	1	EACH	REMOVAL OF MISC. TRAFFIC SIGNAL ITEM: REMOVAL OF EXISTING CCTV CAMERA ASSEMBLY AND STORAGE, AS PER PLAN
632	1	EACH	REMOVAL OF MISC. TRAFFIC SIGNAL ITEM: REMOVAL OF EXISTING ITS CABINET AND STORAGE, AS PER PLAN
632	1	EACH	REMOVAL OF MISC. TRAFFIC SIGNAL ITEM: REMOVAL OF EXISTING WIRELESS RADIO ASSEMBLY AND STORAGE, AS PER PLAN
632	2	EACH	REMOVAL OF MISC. TRAFFIC SIGNAL ITEM: REMOVAL OF WOOD POLE AND STORAGE, AS PER PLAN
632	1	EACH	SIGNALIZATION, MISC.: CCTV IP - CAMERA SYSTEM, CISCO VSOM 4.2 COMPATIBLE, UNPRESSURIZED
632	1	EACH	SIGNALIZATION, MISC.: CCTV POLE, TYPE B (80 FT.), WITH LOWERING DEVICE
632	1	EACH	SIGNALIZATION, MISC.: DEVICE WORK PAD, TYPE C
632	1	EACH	SIGNALIZATION, MISC.: DEVICE WORK PAD, TYPE C (SLOPED AREA DESIGN) 13/32 ALTERNATE BID
633	1	EACH	CONTROLLER ITEM, MISC.: FIELD EQUIPMENT CABINET, ITS CABINET

DETAIL A - NOT TO SCALE



PB1 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 13+50.0, 183.0' RT.

PB2 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 13+50.0, 183.0' RT.

PB3 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 13+18.5, 132.0' RT.

PB4 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 13+18.5, 132.0' RT.

PB5 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 12+99.5, 85.0' RT.

PB6 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 12+99.5, 85.0' RT.

PB7 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 13+41.0, 42.5' RT.

PB8 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 13+41.0, 42.5' RT.

PB9 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 11+48.5, 32.5' RT.

PB10 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 11+48.5, 32.5' RT.

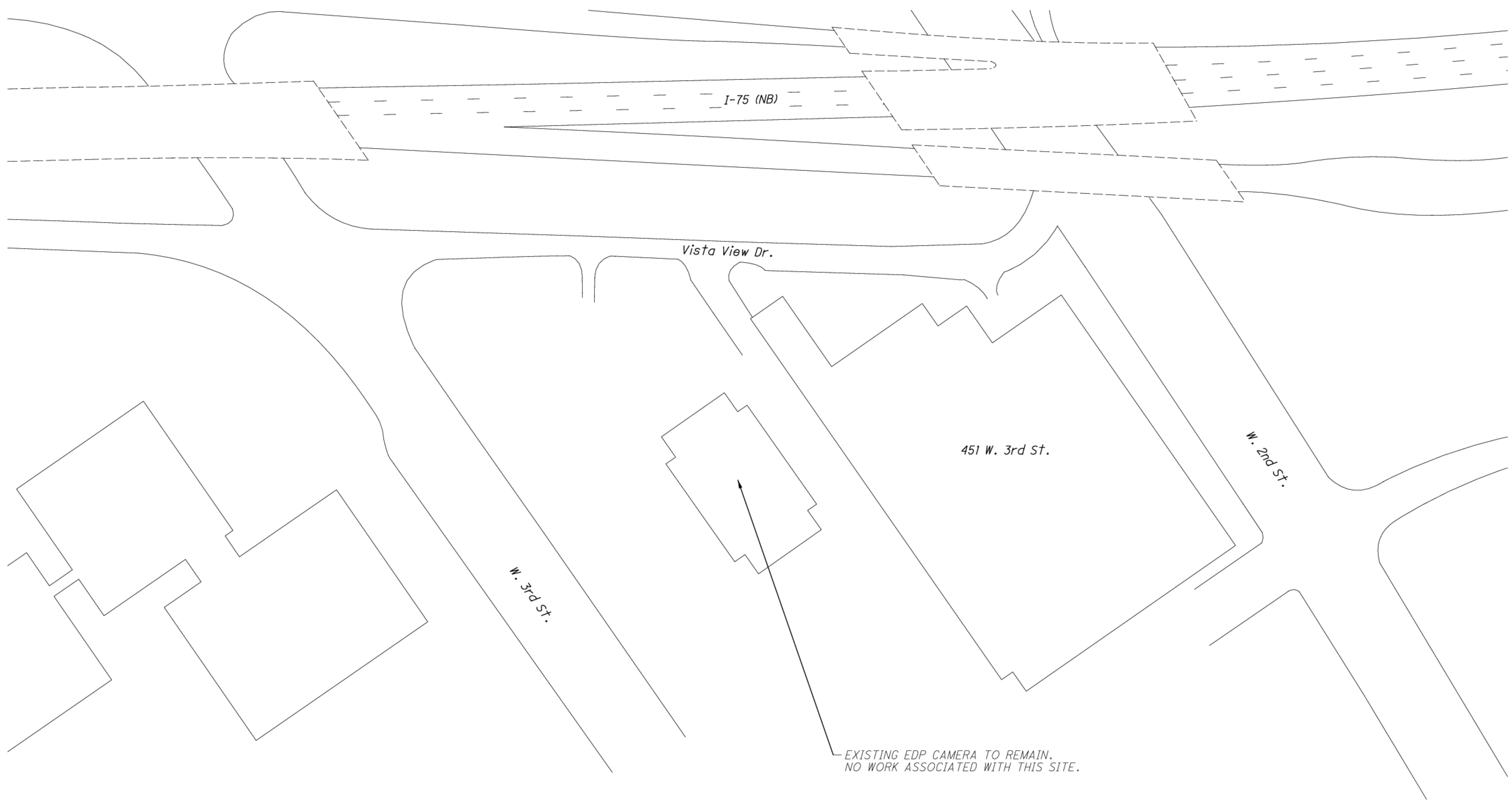
REFER TO SHEETS 7-8 FOR PULL BOX AND CONDUIT DETAILS
REFER TO SHEETS 9-10 FOR WORK PAD DETAILS
REFER TO SHEETS 11-15 FOR ELECTRICAL DETAILS
REFER TO SHEET 16 FOR COMMUNICATION SERVICE DETAILS
REFER TO SHEETS 18-19 FOR TYPICAL CCTV CAMERA POLE DETAILS
REFER TO SHEET 20 FOR POLE ORIENTATION CHART
REFER TO SHEET 114 FOR COMMUNICATIONS PLAN OVERVIEW
REFER TO SHEET 115 FOR FIELD CABINET LAYOUT

0 25 50 100
HORIZONTAL SCALE IN FEET

CALCULATED RTM
CHECKED MJH

SITE PLAN #26 - MOT-75-52.69
I-75 AND US-35

VAR-Dayton Springfield Freeway Management System



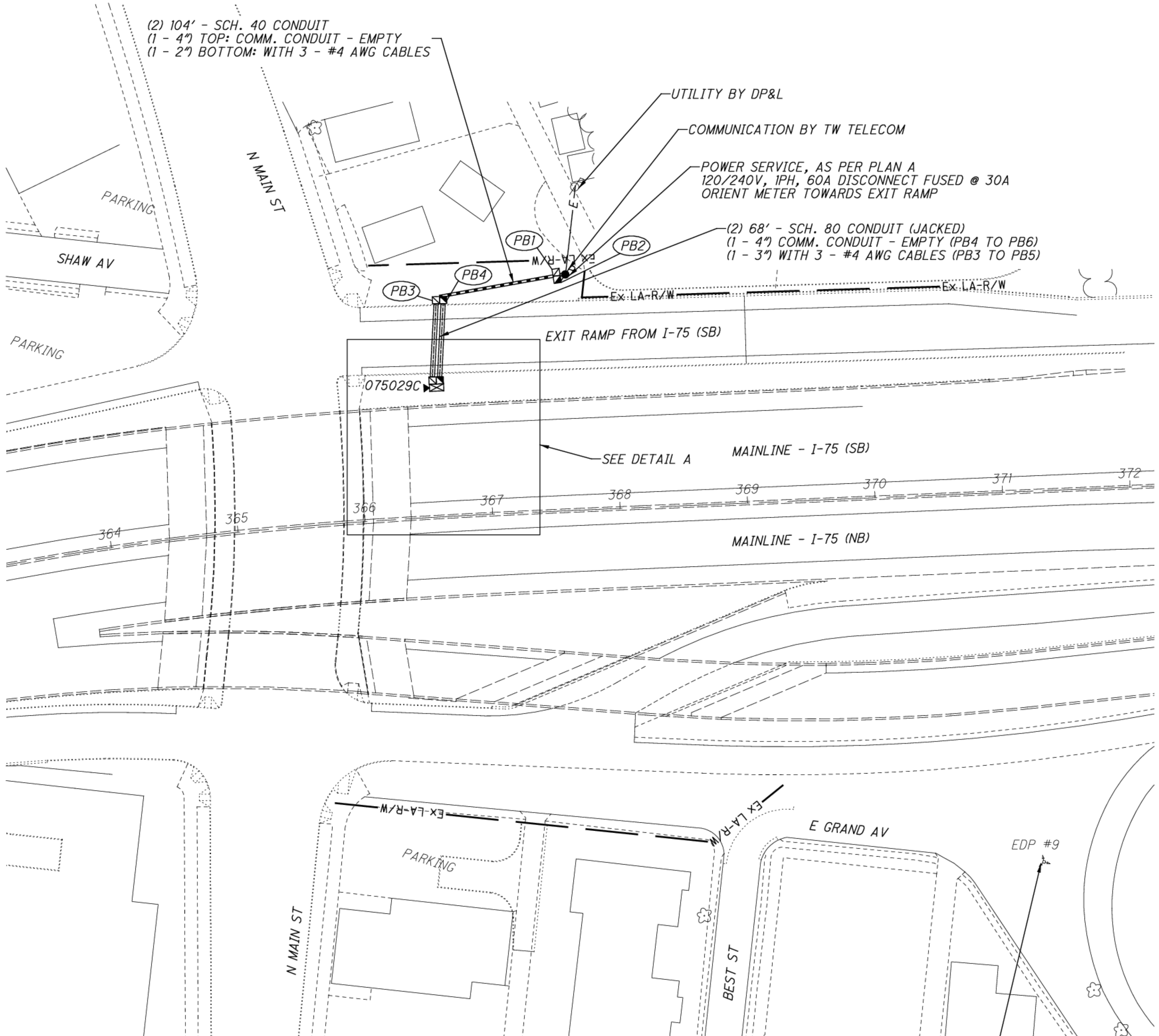
M:\2008 Projects\08033 ODOT Central\001 Dayton FMS\Plan Submissions\projects\VAR\77249\traffic\sheets\27-075027C.dgn 12/29/2010 10:55:50 AM mike

0 25 50 100
HORIZONTAL
SCALE IN FEET

CALCULATED RTM
CHECKED MJH

SITE PLAN #27 - MONT. CO. BUILDING
MONTGOMERY COUNTY BLDG CAMERA

VAR-Dayton Springfield Freeway Management System



PB1 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 367+58.0, 184.5' LT.

PB2 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 367+58.0, 184.5' LT.

PB3 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 366+67.5, 169.5' LT.

PB4 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 366+67.5, 169.5' LT.

PB5 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 366+61.5, 107.0' LT.

PB6 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 366+61.5, 107.0' LT.

REFER TO SHEETS 7-8 FOR PULL BOX AND CONDUIT DETAILS
REFER TO SHEETS 9-10 FOR WORK PAD DETAILS
REFER TO SHEETS 11-15 FOR ELECTRICAL DETAILS
REFER TO SHEET 16 FOR COMMUNICATION SERVICE DETAILS
REFER TO SHEETS 18-19 FOR TYPICAL CCTV CAMERA POLE DETAILS
REFER TO SHEET 20 FOR POLE ORIENTATION CHART
REFER TO SHEET 114 FOR COMMUNICATIONS PLAN OVERVIEW
REFER TO SHEETS 115 FOR FIELD CABINET LAYOUT

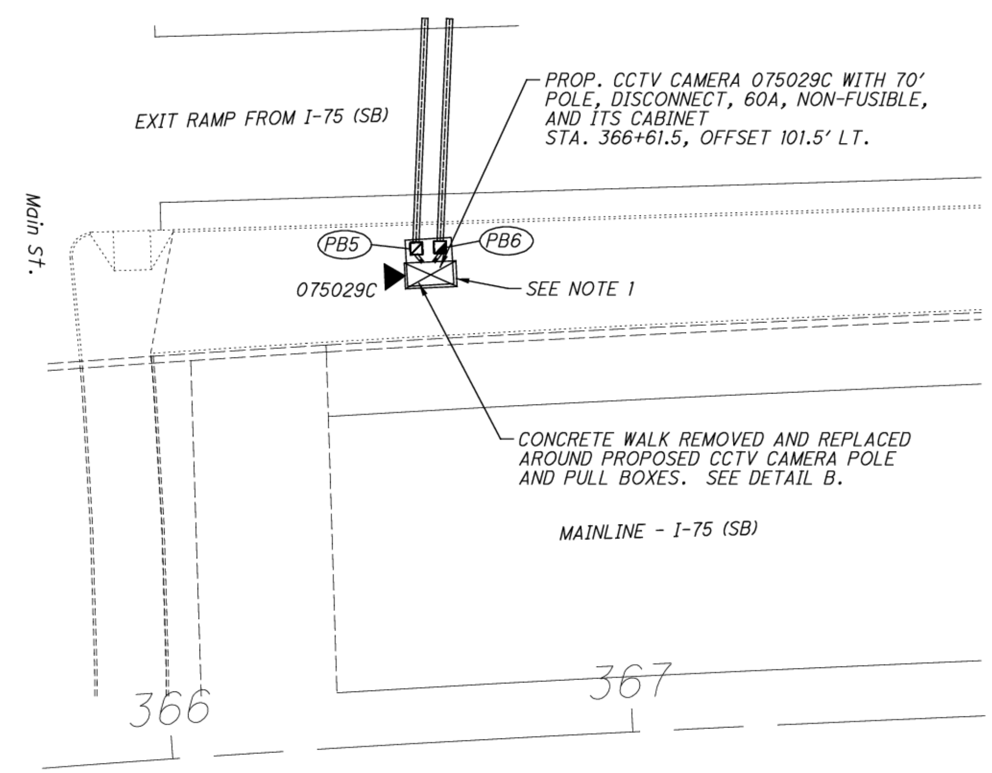
EXISTING EDP CAMERA AND ASSOCIATED WIRING TO BE REMOVED AND STORED, AS PER PLAN

NOTES

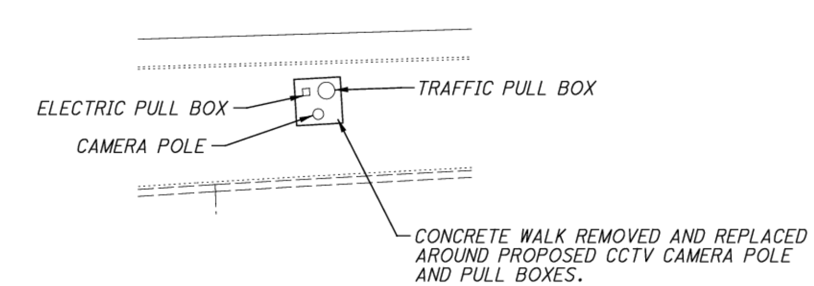
1) THE CONCRETE CAMERA POLE SPECIFIED AT THIS LOCATION SHALL BE BLACK IN COLOR

SUB-SUMMARY			
ITEM	TOTAL	UNIT	DESCRIPTION
202	100	SQ FT	WALK REMOVED
608	92	SQ FT	6" CONCRETE WALK
625	730	FT	NO. 4 AWG 5000 VOLT DISTRIBUTION CABLE
625	110	FT	CONDUIT, 2", 725.05, AS PER PLAN
625	110	FT	CONDUIT, 4", 725.05, AS PER PLAN
625	70	FT	CONDUIT JACKED OR DRILLED, 3", AS PER PLAN
625	70	FT	CONDUIT JACKED OR DRILLED, 4", AS PER PLAN
625	110	FT	TRENCH, 24" DEEP
625	3	EACH	PULL BOX, 725.08, 18", AS PER PLAN, TYPE A (ELECTRIC)
625	3	EACH	PULL BOX, MISC.: PULL BOX, 725.08, 32", TYPE B (TRAFFIC)
625	1	EACH	GROUND ROD
625	1	EACH	POWER SERVICE, AS PER PLAN A
625	1	EACH	POWER SERVICE REMOVED
631	1	EACH	SIGN LIGHTING, MISC.: DISCONNECT SWITCH, 60A
632	1	EACH	REMOVAL OF MISC. TRAFFIC SIGNAL ITEM: REMOVAL OF EXISTING CCTV CAMERA ASSEMBLY AND STORAGE, AS PER PLAN
632	1	EACH	REMOVAL OF MISC. TRAFFIC SIGNAL ITEM: REMOVAL OF EXISTING ITS CABINET AND STORAGE, AS PER PLAN
632	1	EACH	SIGNALIZATION, MISC.: CCTV IP - CAMERA SYSTEM, CISCO VSOM 4.2 COMPATIBLE, UNPRESSURIZED
632	1	EACH	SIGNALIZATION, MISC.: CCTV POLE, TYPE A (70 FT.), WITH LOWERING DEVICE
633	1	EACH	CONTROLLER ITEM, MISC.: FIELD EQUIPMENT CABINET, ITS CABINET

DETAIL A - NOT TO SCALE



DETAIL B - NOT TO SCALE



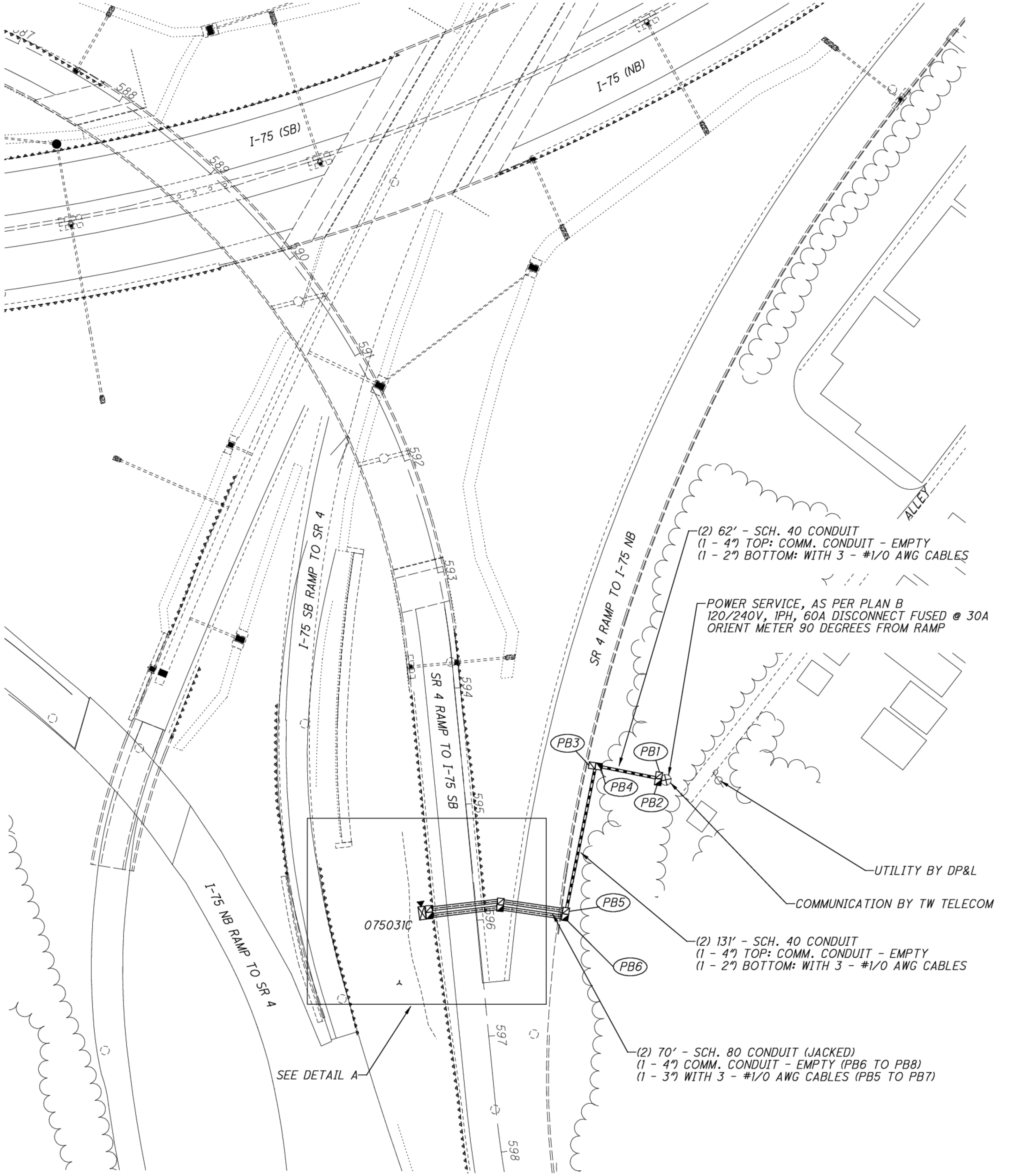
N

0 25 50 100
HORIZONTAL SCALE IN FEET

CALCULATED RTM
CHECKED MJH

SITE PLAN #28 - MOT-75-54.38
I-75 AND MAIN STREET

VAR-Dayton Springfield Freeway Management System



SUB-SUMMARY			
ITEM	TOTAL	UNIT	DESCRIPTION
606	25	FT	GUARDRAIL, MISC.: GUARDRAIL REMOVED AND REPLACED
625	1240	FT	NO. 1/0 AWG 5000 VOLT DISTRIBUTION CABLE
625	200	FT	CONDUIT, 2", 725.05, AS PER PLAN
625	200	FT	CONDUIT, 4", 725.05, AS PER PLAN
625	140	FT	CONDUIT JACKED OR DRILLED, 3", AS PER PLAN
625	140	FT	CONDUIT JACKED OR DRILLED, 4", AS PER PLAN
625	200	FT	TRENCH, 24" DEEP
625	5	EACH	PULL BOX, 725.08, 18", AS PER PLAN, TYPE A (ELECTRIC)
625	5	EACH	PULL BOX, MISC.: PULL BOX, 725.08, 32", TYPE B (TRAFFIC)
625	1	EACH	GROUND ROD
625	1	EACH	POWER SERVICE, AS PER PLAN B
631	1	EACH	SIGN LIGHTING, MISC.: DISCONNECT SWITCH, 60A
632	1	EACH	SIGNALIZATION, MISC.: CCTV IP - CAMERA SYSTEM, CISCO VSOM 4.2 COMPATIBLE, UNPRESSURIZED
632	1	EACH	SIGNALIZATION, MISC.: CCTV POLE, TYPE B (80 FT.), WITH LOWERING DEVICE
632	1	EACH	SIGNALIZATION, MISC.: DEVICE WORK PAD, TYPE C
633	1	EACH	CONTROLLER ITEM, MISC.: FIELD EQUIPMENT CABINET, ITS CABINET

PB1 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 594+94.0, 166.5' LT.

PB2 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 594+94.0, 166.5' LT.

PB3 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 594+78.5, 114.0' LT.

PB4 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 594+78.5, 114.0' LT.

PB5 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 596+02.5, 76.5' LT.

PB6 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 596+02.5, 76.5' LT.

PB7 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 595+89.0, 21.0' LT.

PB8 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 595+89.0, 21.0' LT.

PB9 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 595+89.0, 40.5' RT.

PB10 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 595+89.0, 40.5' RT.

REFER TO SHEETS 7-8 FOR PULL BOX AND CONDUIT DETAILS

REFER TO SHEETS 9-10 FOR WORK PAD DETAILS

REFER TO SHEETS 11-15 FOR ELECTRICAL DETAILS

REFER TO SHEET 16 FOR COMMUNICATION SERVICE DETAILS

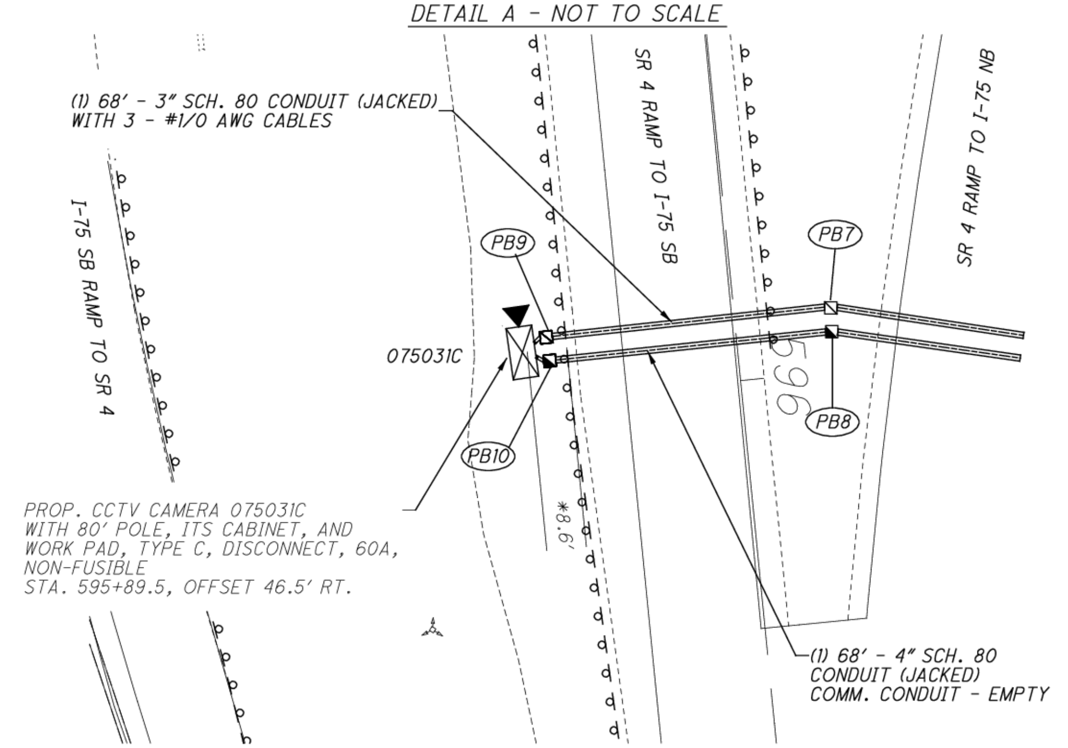
REFER TO SHEETS 18-19 FOR TYPICAL CCTV CAMERA POLE DETAILS

REFER TO SHEET 20 FOR POLE ORIENTATION CHART

REFER TO SHEET 114 FOR COMMUNICATIONS PLAN OVERVIEW

REFER TO SHEET 115 FOR FIELD CABINET LAYOUT

DETAIL A - NOT TO SCALE



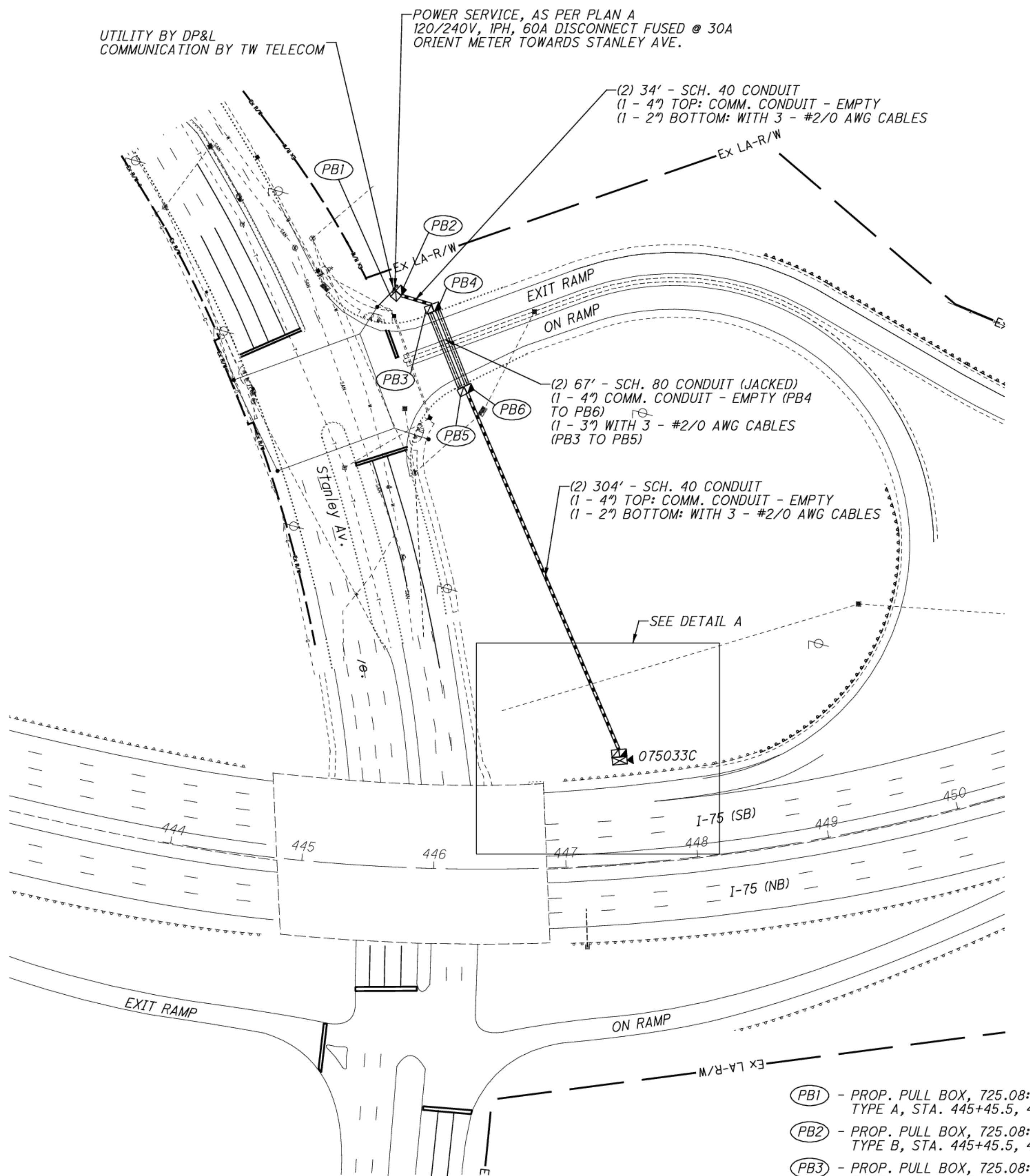
* PROPOSED OFFSET BETWEEN DEVICE AND FRONT OF GUARDRAIL.

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED RTM CHECKED MJH

SITE PLAN #29 - MOT-75-54.87
I-75 AND STATE ROUTE 4

VAR-Dayton Springfield Freeway Management System



PB1 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 445+45.5, 433.5' LT.

PB2 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 445+45.5, 433.5' LT.

PB3 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 445+83.0, 423.5' LT.

PB4 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 445+83.0, 423.5' LT.

PB5 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 446+20.0, 362.0' LT.

PB6 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 446+20.0, 362.0' LT.

PB7 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 447+46.5, 83.5' LT.

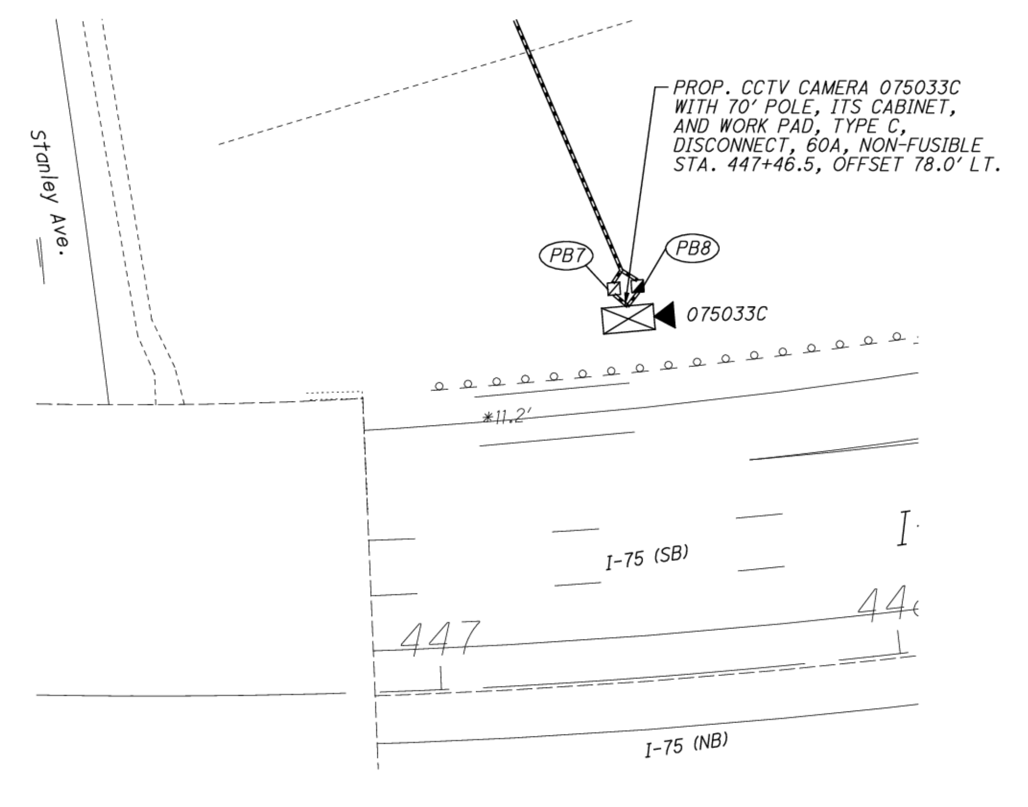
PB8 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 447+46.5, 83.5' LT.

SUB-SUMMARY

ITEM	TOTAL	UNIT	DESCRIPTION
606	25	FT	GUARDRAIL, MISC.: GUARDRAIL REMOVED AND REPLACED
625	1450	FT	NO. 2/0 AWG 5000 VOLT DISTRIBUTION CABLE
625	340	FT	CONDUIT, 2", 725.05, AS PER PLAN
625	340	FT	CONDUIT, 4", 725.05, AS PER PLAN
625	70	FT	CONDUIT JACKED OR DRILLED, 3", AS PER PLAN
625	70	FT	CONDUIT JACKED OR DRILLED, 4", AS PER PLAN
625	340	FT	TRENCH, 24" DEEP
625	4	EACH	PULL BOX, 725.08, 18", AS PER PLAN, TYPE A (ELECTRIC)
625	4	EACH	PULL BOX, MISC.: PULL BOX, 725.08, 32", TYPE B (TRAFFIC)
625	1	EACH	GROUND ROD
625	1	EACH	POWER SERVICE, AS PER PLAN A
631	1	EACH	SIGN LIGHTING, MISC.: DISCONNECT SWITCH, 60A
632	1	EACH	SIGNALIZATION, MISC.: CCTV IP - CAMERA SYSTEM, CISCO VSOM 4.2 COMPATIBLE, UNPRESSURIZED
632	1	EACH	SIGNALIZATION, MISC.: CCTV POLE, TYPE A (70 FT.), WITH LOWERING DEVICE
632	1	EACH	SIGNALIZATION, MISC.: DEVICE WORK PAD, TYPE C
633	1	EACH	CONTROLLER ITEM, MISC.: FIELD EQUIPMENT CABINET, ITS CABINET

REFER TO SHEETS 7-8 FOR PULL BOX AND CONDUIT DETAILS
REFER TO SHEETS 9-10 FOR WORK PAD DETAILS
REFER TO SHEETS 11-15 FOR ELECTRICAL DETAILS
REFER TO SHEET 16 FOR COMMUNICATION SERVICE DETAILS
REFER TO SHEETS 18-19 FOR TYPICAL CCTV CAMERA POLE DETAILS
REFER TO SHEET 20 FOR POLE ORIENTATION CHART
REFER TO SHEET 114 FOR COMMUNICATIONS PLAN OVERVIEW
REFER TO SHEET 115 FOR FIELD CABINET LAYOUT

DETAIL A - NOT TO SCALE



* PROPOSED OFFSET BETWEEN DEVICE AND FRONT OF GUARDRAIL.

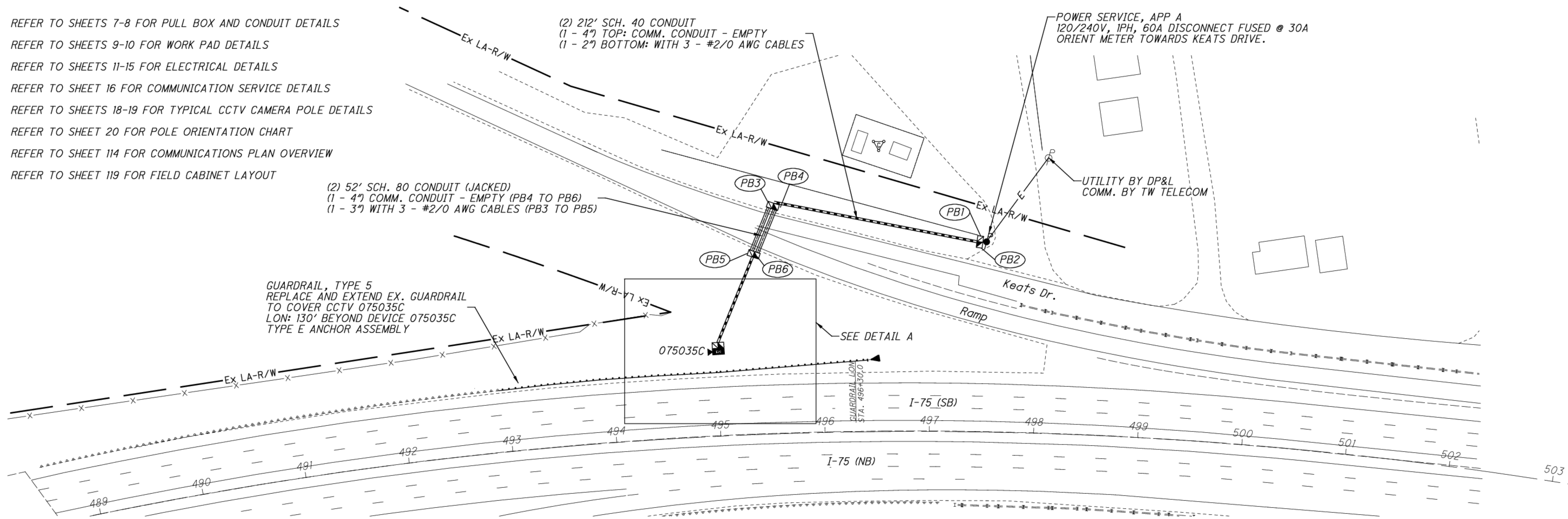
HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED RTM
CHECKED MJH

SITE PLAN #30 - MOT-75-55.99
I-75 AND STANLEY AVE

VAR-Dayton Springfield Freeway Management System

REFER TO SHEETS 7-8 FOR PULL BOX AND CONDUIT DETAILS
REFER TO SHEETS 9-10 FOR WORK PAD DETAILS
REFER TO SHEETS 11-15 FOR ELECTRICAL DETAILS
REFER TO SHEET 16 FOR COMMUNICATION SERVICE DETAILS
REFER TO SHEETS 18-19 FOR TYPICAL CCTV CAMERA POLE DETAILS
REFER TO SHEET 20 FOR POLE ORIENTATION CHART
REFER TO SHEET 114 FOR COMMUNICATIONS PLAN OVERVIEW
REFER TO SHEET 119 FOR FIELD CABINET LAYOUT

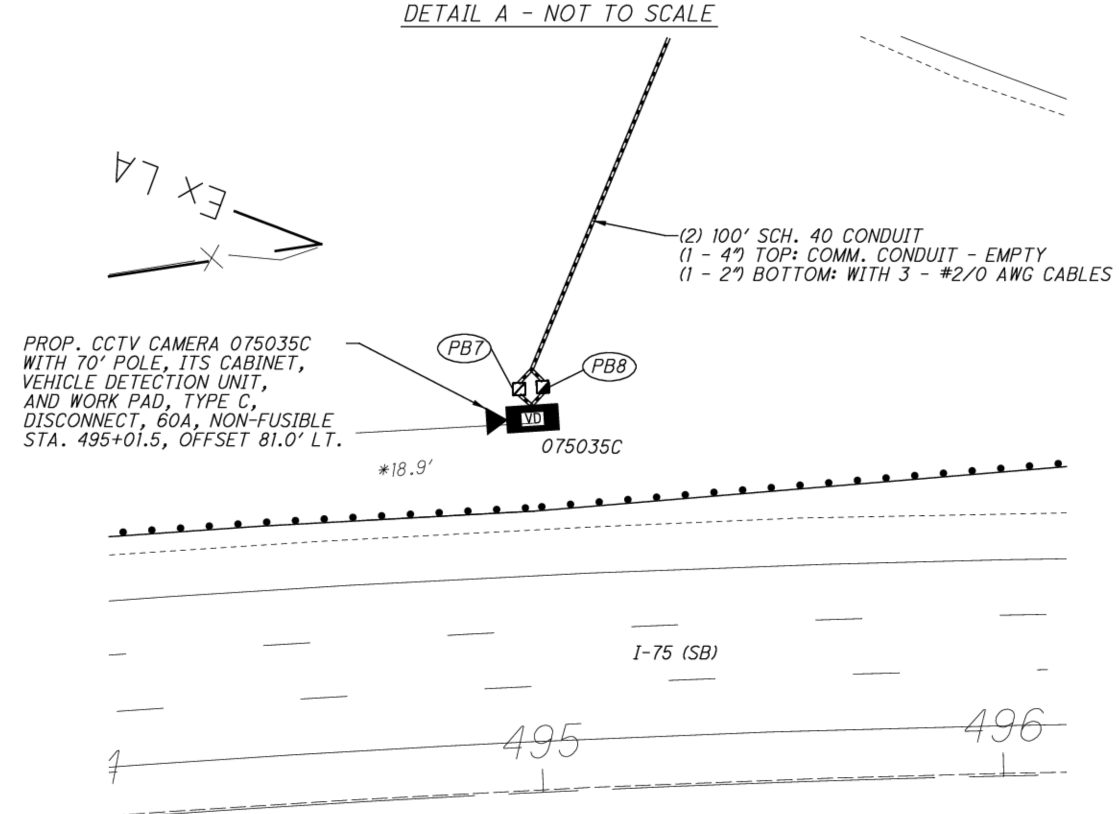


SUB-SUMMARY			
ITEM	TOTAL	UNIT	DESCRIPTION
202	1	EACH	ANCHOR ASSEMBLY REMOVED, AS PER PLAN
606	356	FT	GUARDRAIL, TYPE 5
606	1	EACH	ANCHOR ASSEMBLY, TYPE E
625	1320	FT	NO. 2/0 AWG 5000 VOLT DISTRIBUTION CABLE
625	320	FT	CONDUIT, 2", 725.05, AS PER PLAN
625	320	FT	CONDUIT, 4", 725.05, AS PER PLAN
625	60	FT	CONDUIT JACKED OR DRILLED, 3", AS PER PLAN
625	60	FT	CONDUIT JACKED OR DRILLED, 4", AS PER PLAN
625	320	FT	TRENCH, 24" DEEP
625	4	EACH	PULL BOX, 725.08, 18", AS PER PLAN, TYPE A (ELECTRIC)
625	4	EACH	PULL BOX, MISC.: PULL BOX, 725.08, 32", TYPE B (TRAFFIC)
625	1	EACH	GROUND ROD
625	1	EACH	POWER SERVICE, AS PER PLAN A
631	1	EACH	SIGN LIGHTING, MISC.: DISCONNECT SWITCH, 60A
632	1	EACH	SIGNALIZATION, MISC.: CCTV IP - CAMERA SYSTEM, CISCO VSOM 4.2 COMPATIBLE, UNPRESSURIZED
632	1	EACH	SIGNALIZATION, MISC.: CCTV POLE, TYPE A (70 FT.), WITH LOWERING DEVICE
632	1	EACH	SIGNALIZATION, MISC.: VEHICLE DETECTION UNIT
632	1	EACH	SIGNALIZATION, MISC.: DEVICE WORK PAD, TYPE C
633	1	EACH	CONTROLLER ITEM, MISC.: FIELD EQUIPMENT CABINET, ITS CABINET

NEVA DRIVE OVERPASS - EDP SITE #8 - SUB-SUMMARY			
ITEM	TOTAL	UNIT	DESCRIPTION
632	1	EACH	REMOVAL OF MISC. TRAFFIC SIGNAL ITEM: REMOVAL OF EXISTING CCTV CAMERA ASSEMBLY AND STORAGE, AS PER PLAN
632	1	EACH	REMOVAL OF MISC. TRAFFIC SIGNAL ITEM: REMOVAL OF EXISTING ITS CABINET AND STORAGE, AS PER PLAN
632	1	EACH	REMOVAL OF MISC. TRAFFIC SIGNAL ITEM: REMOVAL OF EXISTING WIRELESS RADIO ASSEMBLY AND STORAGE, AS PER PLAN
632	1	EACH	REMOVAL OF MISC. TRAFFIC SIGNAL ITEM: REMOVAL OF WOOD POLE AND STORAGE, AS PER PLAN

- PB1 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 496+70.0, 201.0' LT.
- PB2 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 496+70.0, 201.0' LT.
- PB3 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 495+57.0, 218.5' LT.
- PB4 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 495+57.0, 218.5' LT.
- PB5 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 495+38.0, 173.0' LT.
- PB6 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 495+38.0, 173.0' LT.
- PB7 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 495+01.5, 87.0' LT.
- PB8 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 495+01.5, 87.0' LT.

DETAIL A - NOT TO SCALE



* PROPOSED OFFSET BETWEEN DEVICE AND FRONT OF GUARDRAIL.

0 25 50 100
HORIZONTAL SCALE IN FEET

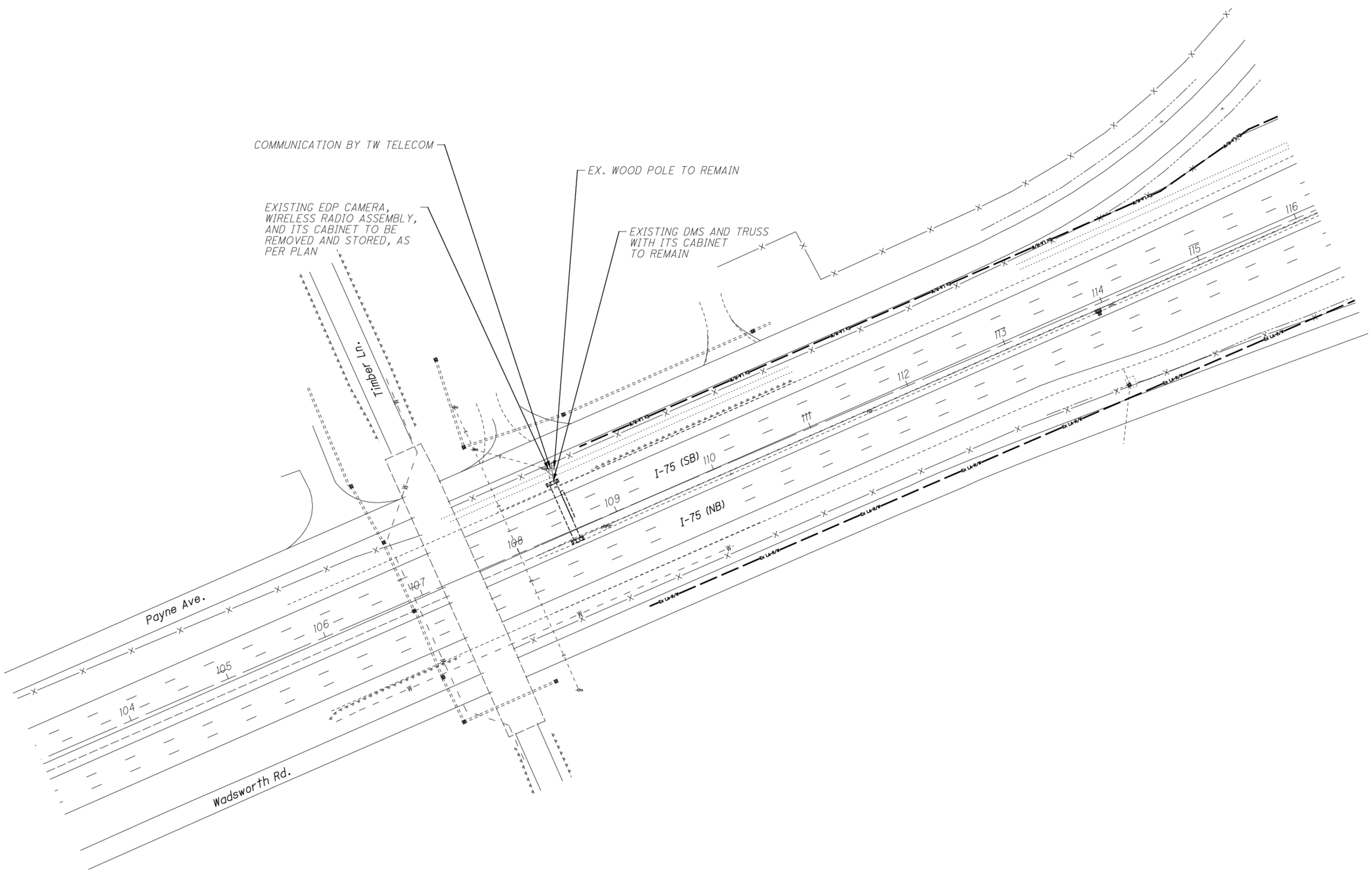
CALCULATED RTM
CHECKED MJH

SITE PLAN #31 - MOT-75-56.90
I-75 AT WAGONER FORD RD

VAR-Dayton Springfield Freeway Management System

M:\2008 Projects\08033 ODOT Central\001 Dayton FMS\Plan Submissions\projects\VAR\77249\traffic\sheets\31-075035C.dgn 12/29/2010 10:55:59 AM mike

SITE PLAN #32 - MOT-75-57.76
I-75 AND TIMBER LANE



REFER TO SHEETS 11-15 FOR ELECTRICAL DETAILS
REFER TO SHEET 16 FOR COMMUNICATION SERVICE DETAILS
REFER TO SHEET 114 FOR COMMUNICATIONS PLAN OVERVIEW
REFER TO SHEET 116 FOR FIELD CABINET LAYOUT

0 25 50 100
HORIZONTAL SCALE IN FEET

CALCULATED RTM
CHECKED MJH

VAR-Dayton Springfield Freeway Management System

SUB-SUMMARY			
ITEM	TOTAL	UNIT	DESCRIPTION
630	81	SQ FT	SIGNING, MISC.: WIRE MESH FOR DMS TRUSS CATWALK
632	1	EACH	REMOVAL OF MISC. TRAFFIC SIGNAL ITEM: REMOVAL OF EXISTING CCTV CAMERA ASSEMBLY AND STORAGE, AS PER PLAN
632	1	EACH	REMOVAL OF MISC. TRAFFIC SIGNAL ITEM: REMOVAL OF ITS CABINET AND STORAGE, AS PER PLAN
632	1	EACH	REMOVAL OF MISC. TRAFFIC SIGNAL ITEM: REMOVAL OF EXISTING WIRELESS RADIO ASSEMBLY AND STORAGE, AS PER PLAN

REFER TO SHEETS 11-15 FOR ELECTRICAL DETAILS

REFER TO SHEET 16 FOR COMMUNICATION SERVICE DETAILS

REFER TO SHEET 114 FOR COMMUNICATIONS PLAN OVERVIEW

REFER TO SHEET 116 FOR FIELD CABINET LAYOUT

PLAN CLARIFICATIONS

SITE #32: I-75 & TIMBER LN.

CONTRACTOR:
CCTV CAMERA: THE CCTV CAMERA AND RELATED EQUIPMENT AND THE ITS CABINET ON THE CCTV WOOD POLE SHALL BE REMOVED AND STORED.

DMS: THE EXISTING DMS SHALL REMAIN. INSTALL WIRE MESH ON THE EXISTING DMS CATWALK PER DETAIL SHEETS 22-24, SPECIAL PROVISIONS SECTION 3.11, AND ANY OTHER PLANS OR SPECIAL PROVISIONS THAT MAY BE APPLICABLE. THE ITS CABINET ON THE DMS SHALL REMAIN AND CONTINUE TO HOST THE DMS CONTROLLER

POWER: EXISTING POWER SERVICE TO THE DMS AND ITS CABINET ON THE DMS ENDFRAME SHALL REMAIN. THE EXISTING DISCONNECT ON THE CCTV WOOD POLE SHALL REMAIN.

COORDINATE COMMUNICATION CONSTRUCTION WITH TW TELECOM.

TEST EQUIPMENT AS PER SPECIAL PROVISIONS FOR LOCAL OPERATION. SEE SPECIAL PROVISIONS SECTIONS 2.23 - 2.27.

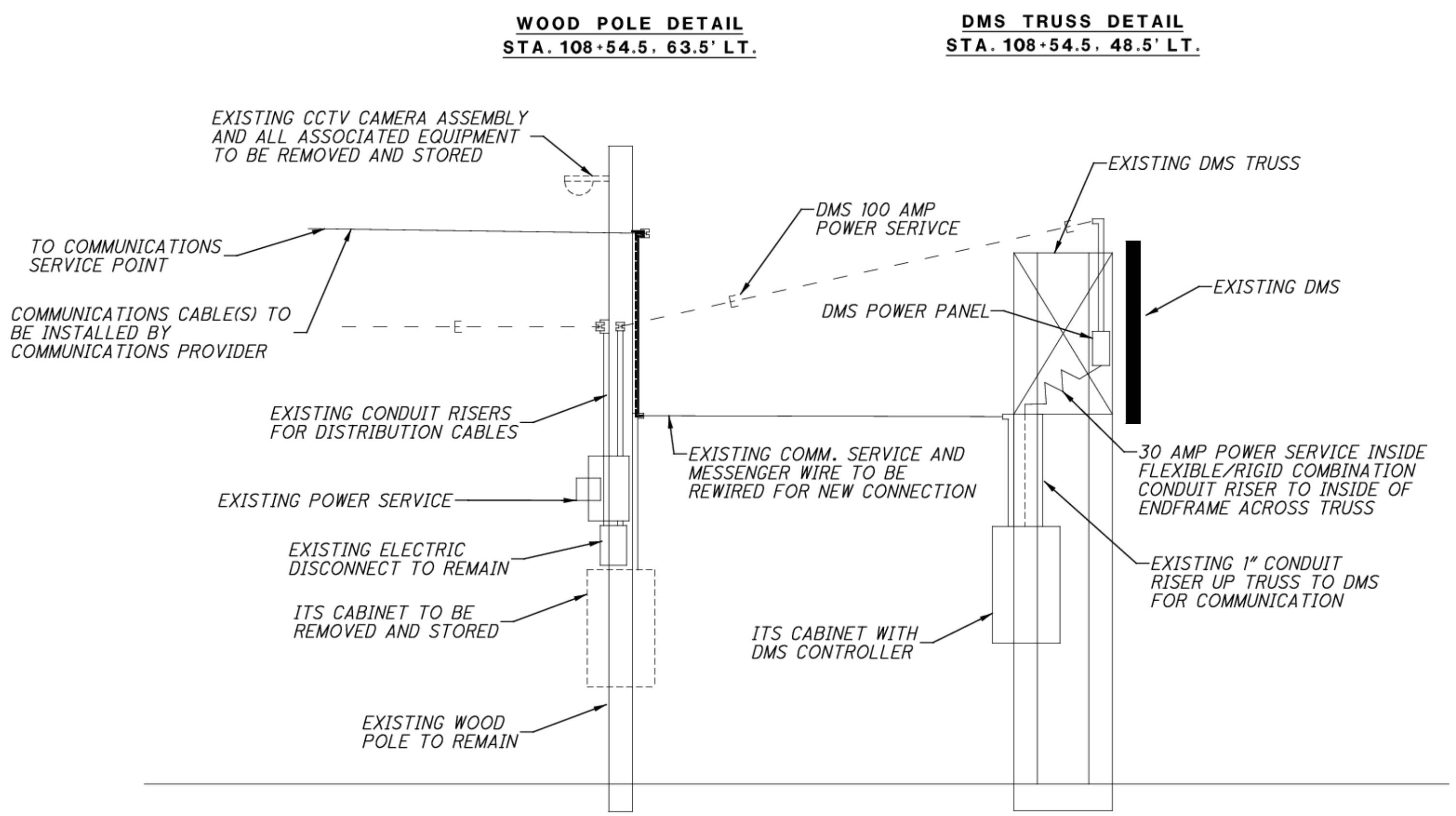
ODOT:
RECONFIGURE NETWORK SWITCH AND SMART UPS FOR THE EXISTING ITS CABINET AS NEEDED.

TEST NETWORK CONNECTION FOR PROPER OPERATION AS PER SPECIAL PROVISIONS.

TW TELECOM:
FURNISH AND INSTALL COMMUNICATION SERVICE CABLE TO ITS CABINET FROM TW TELECOM SERVICE POINT.

SITE #32 WIRING DETAIL

NOT TO SCALE

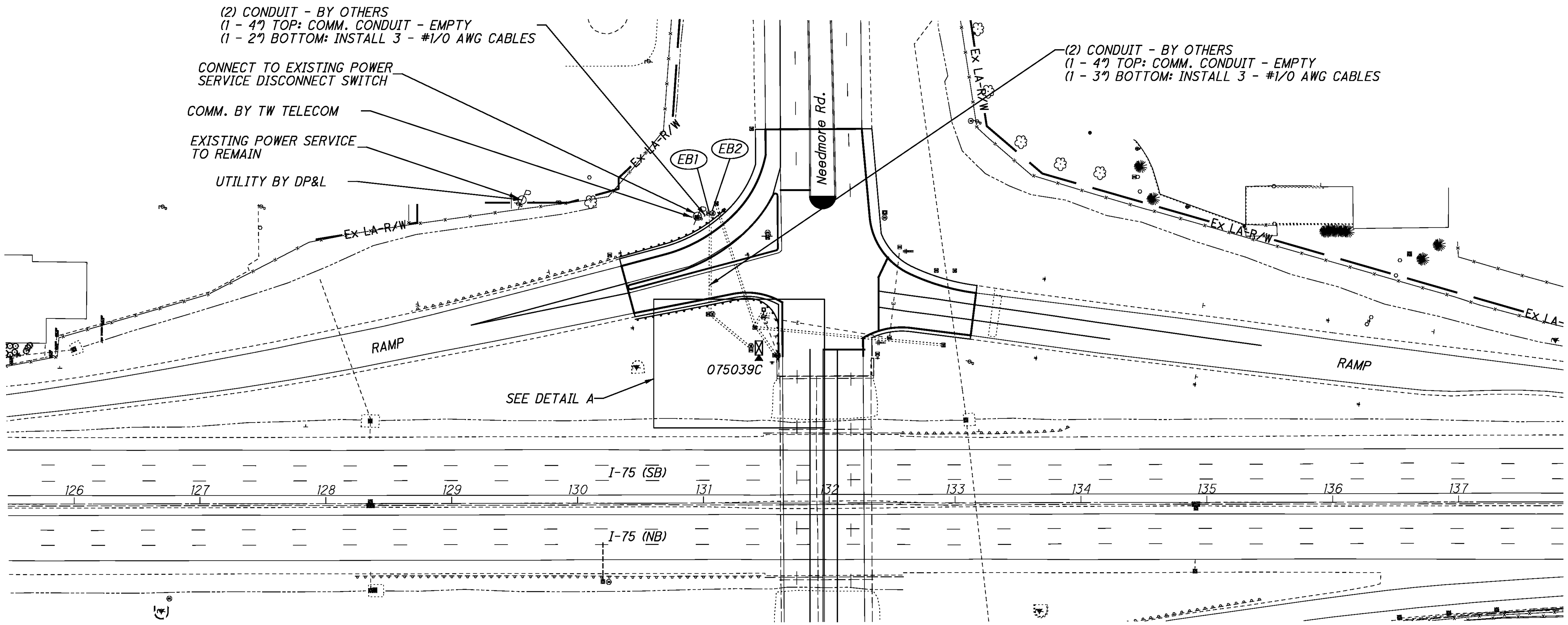


0 25 50 100
HORIZONTAL SCALE IN FEET

CALCULATED RTM
CHECKED MJH

SITE #32 - MOT-75-57.76 - DETAIL
I-75 AND TIMBER LANE

VAR-Dayton Springfield Freeway Management System

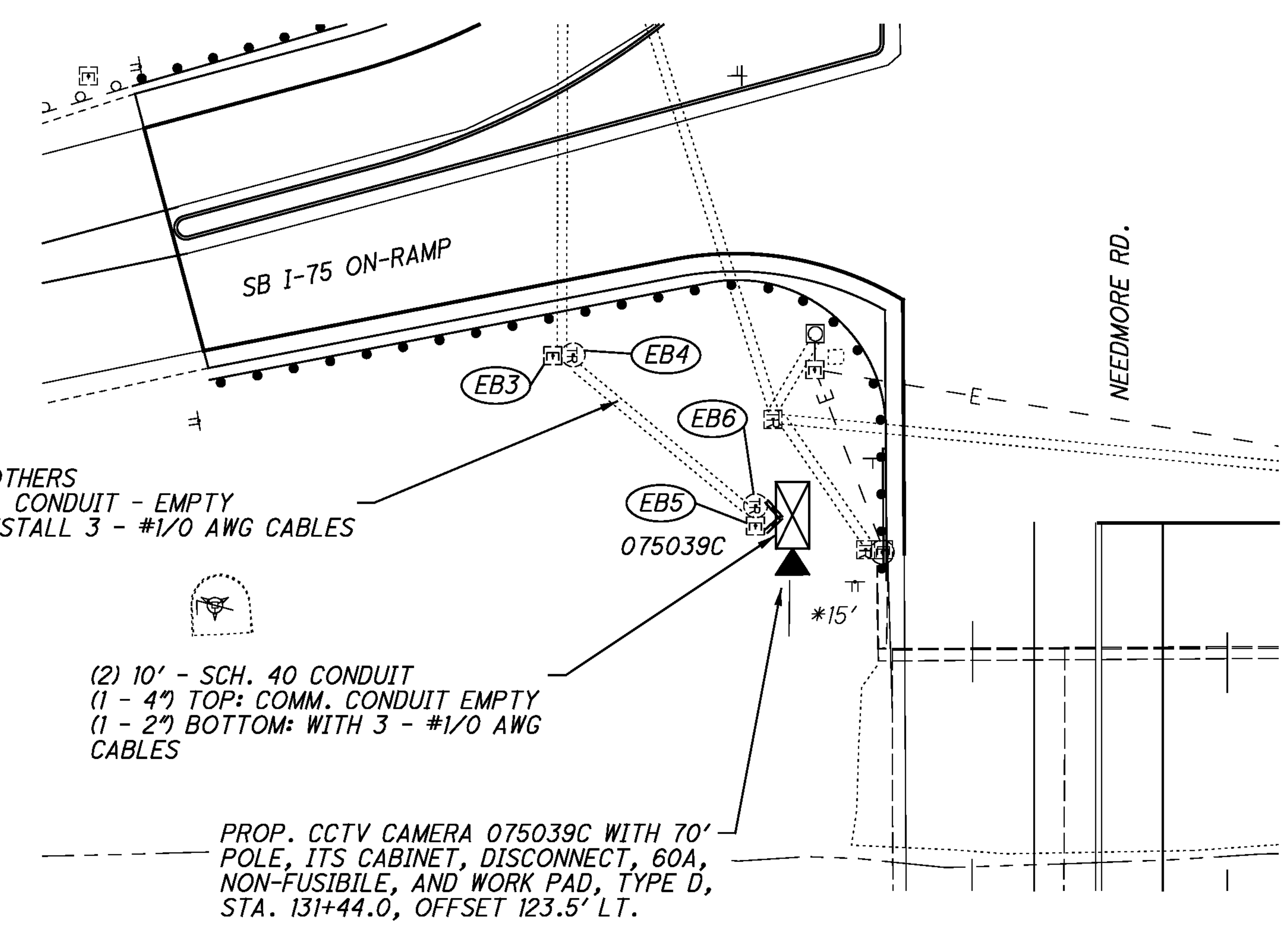


SUB-SUMMARY			
ITEM	TOTAL	UNIT	DESCRIPTION
202	40	FT	EXISTING CONDUIT CLEANED, AS PER PLAN
606	25	FT	GUARDRAIL, MISC.: GUARDRAIL REMOVED AND REPLACED
625	630	FT	NO. 1/0 AWG 5000 VOLT DISTRIBUTION CABLE
625	10	FT	CONDUIT, 2", 725.05, AS PER PLAN
625	10	FT	CONDUIT, 4", 725.05, AS PER PLAN
625	10	FT	CONDUIT, MISC.: EXISTING CONDUIT REPAIR
625	10	FT	TRENCH, 24" DEEP
625	1	EACH	PULL BOX, MISC.: EXISTING PULL BOX REPAIRED
625	1	EACH	GROUND ROD
625	5	EACH	PULL BOX CLEANED
625	1	EACH	LIGHTING, MISC.: REUSE OF EXISTING POWER SERVICE
631	1	EACH	SIGN LIGHTING, MISC.: DISCONNECT SWITCH, 60A
632	1	EACH	SIGNALIZATION, MISC.: CCTV IP - CAMERA SYSTEM, CISCO VSOM 4.2 COMPATIBLE, UNPRESSURIZED
632	1	EACH	SIGNALIZATION, MISC.: CCTV POLE, TYPE A (70 FT.), WITH LOWERING DEVICE
632	1	EACH	SIGNALIZATION, MISC.: DEVICE WORK PAD, TYPE D (SLOPED AREA DESIGN)
633	1	EACH	CONTROLLER ITEM, MISC.: FIELD EQUIPMENT CABINET, ITS CABINET

REFER TO SHEETS 7-8 FOR PULL BOX AND CONDUIT DETAILS
REFER TO SHEETS 9-10 FOR WORK PAD DETAILS
REFER TO SHEETS 11-15 FOR ELECTRICAL DETAILS
REFER TO SHEET 16 FOR COMMUNICATION SERVICE DETAILS
REFER TO SHEETS 18-19 FOR TYPICAL CCTV CAMERA POLE DETAILS
REFER TO SHEET 20 FOR POLE ORIENTATION CHART
REFER TO SHEET 114 FOR COMMUNICATIONS PLAN OVERVIEW
REFER TO SHEET 115 FOR FIELD CABINET LAYOUT

EB1 - ELECTRIC PULL BOX, 725.08, 18" BY OTHERS
EB2 - TRAFFIC PULL BOX, 725.08: 32" BY OTHERS
EB3 - ELECTRIC PULL BOX, 725.08, 18" BY OTHERS
EB4 - TRAFFIC PULL BOX, 725.08: 32" BY OTHERS
EB5 - ELECTRIC PULL BOX, 725.08, 18" BY OTHERS
EB6 - TRAFFIC PULL BOX, 725.08: 32" BY OTHERS

DETAIL A - NOT TO SCALE



* PROPOSED OFFSET BETWEEN DEVICE AND FRONT OF GUARDRAIL.

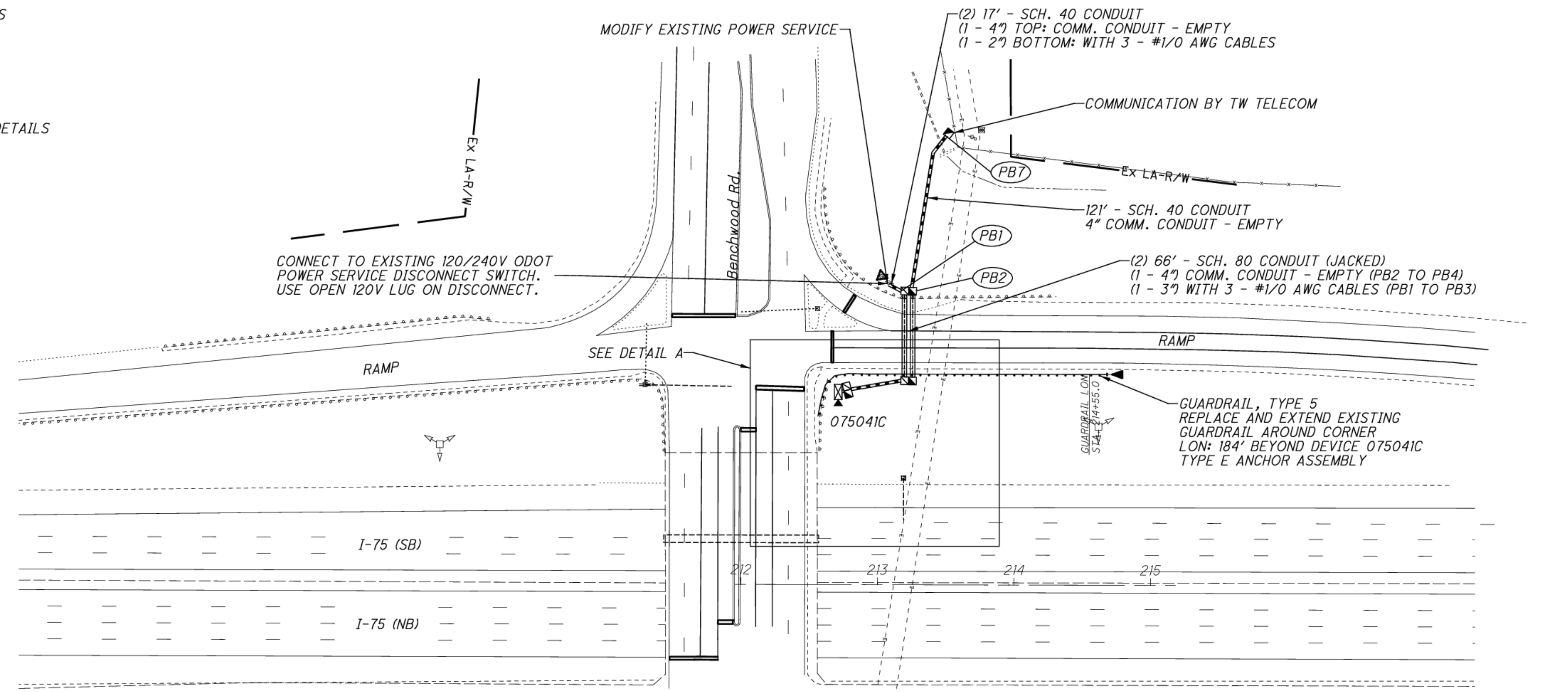
0 25 50 100
HORIZONTAL SCALE IN FEET

CALCULATED RTM
CHECKED MJH

SITE PLAN #33 - MOT-75-58.20
I-75 AND NEEDMORE RD

VAR-Dayton Springfield Freeway Management System

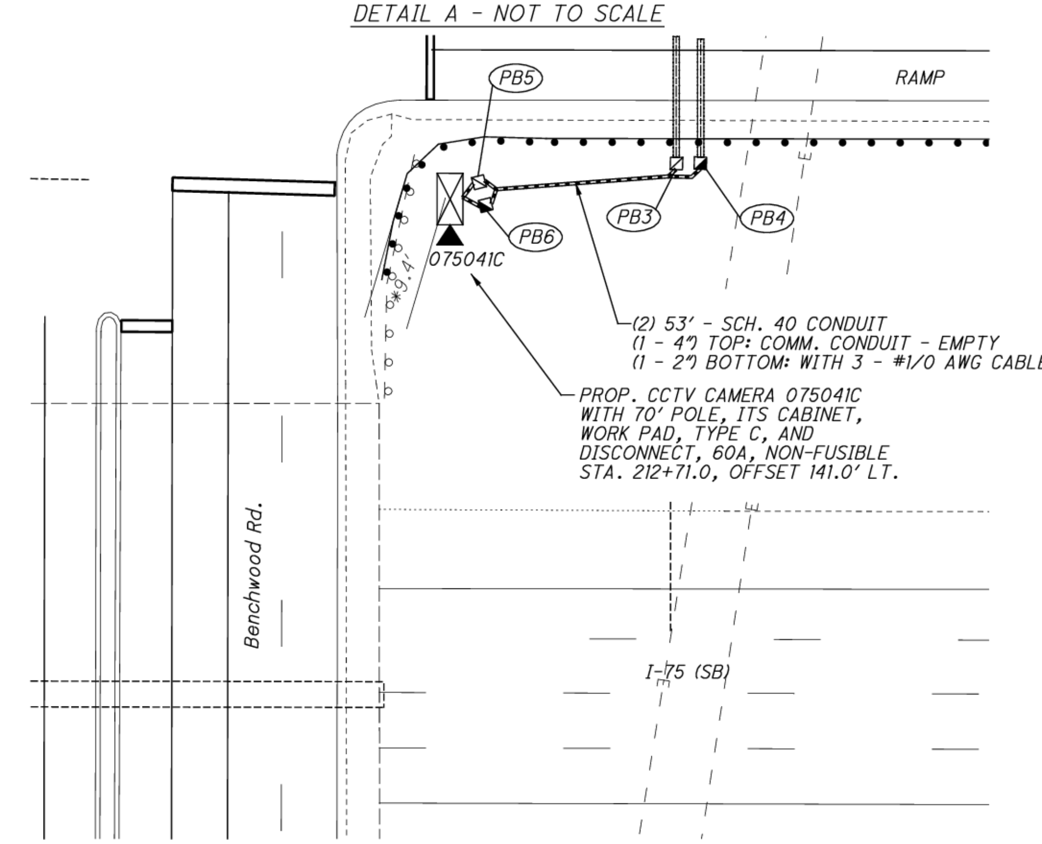
REFER TO SHEETS 7-8 FOR PULL BOX AND CONDUIT DETAILS
REFER TO SHEETS 9-10 FOR WORK PAD DETAILS
REFER TO SHEETS 11-15 FOR ELECTRICAL DETAILS
REFER TO SHEET 16 FOR COMMUNICATION SERVICE DETAILS
REFER TO SHEETS 18-19 FOR TYPICAL CCTV CAMERA POLE DETAILS
REFER TO SHEET 20 FOR POLE ORIENTATION CHART
REFER TO SHEET 114 FOR COMMUNICATIONS PLAN OVERVIEW
REFER TO SHEET 115 FOR FIELD CABINET LAYOUT



SUB-SUMMARY			
ITEM	TOTAL	UNIT	DESCRIPTION
202	29	FT	GUARDRAIL REMOVED
202	1	EACH	ANCHOR ASSEMBLY REMOVED, AS PER PLAN
606	209	FT	GUARDRAIL, TYPE 5
606	1	EACH	ANCHOR ASSEMBLY, TYPE E
606	25	FT	GUARDRAIL, MISC.: GUARDRAIL REMOVED AND REPLACED
625	620	FT	NO. 1/0 AWG 5000 VOLT DISTRIBUTION CABLE
625	80	FT	CONDUIT, 2", 725.05, AS PER PLAN
625	210	FT	CONDUIT, 4", 725.05, AS PER PLAN
625	70	FT	CONDUIT JACKED OR DRILLED, 3", AS PER PLAN
625	70	FT	CONDUIT JACKED OR DRILLED, 4", AS PER PLAN
625	210	FT	TRENCH, 24" DEEP
625	3	EACH	PULL BOX, 725.08, 18", AS PER PLAN, TYPE A (ELECTRIC)
625	4	EACH	PULL BOX, MISC.: PULL BOX, 725.08, 32", TYPE B (TRAFFIC)
625	1	EACH	GROUND ROD
625	1	EACH	LIGHTING, MISC.: REUSE OF EXISTING POWER SERVICE
631	1	EACH	SIGN LIGHTING, MISC.: DISCONNECT SWITCH, 60A
632	1	EACH	REMOVAL OF MISCELLEANOUS TRAFFIC SIGNAL ITEM: REMOVAL OF WEB CAMERA INSTALLATION AND STORAGE, AS PER PLAN
632	1	EACH	SIGNALIZATION, MISC.: CCTV IP - CAMERA SYSTEM, CISCO VSOM 4.2 COMPATIBLE, UNPRESSURIZED
632	1	EACH	SIGNALIZATION, MISC.: CCTV POLE, TYPE A (70 FT.), WITH LOWERING DEVICE
632	1	EACH	SIGNALIZATION, MISC.: DEVICE WORK PAD, TYPE C
633	1	EACH	CONTROLLER ITEM, MISC.: FIELD EQUIPMENT CABINET, ITS CABINET

PB1 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 213+23.0, 215.0' LT.
PB2 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 213+23.0, 215.0' LT.
PB3 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 213+23.0, 149.5' LT.
PB4 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 213+23.0, 149.5' LT.
PB5 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 212+78.0, 142.5' LT.
PB6 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 212+78.0, 142.5' LT.
PB7 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 213+51.5, 330.5' LT.

DETAIL A - NOT TO SCALE



* PROPOSED OFFSET BETWEEN DEVICE AND FRONT OF GUARDRAIL.

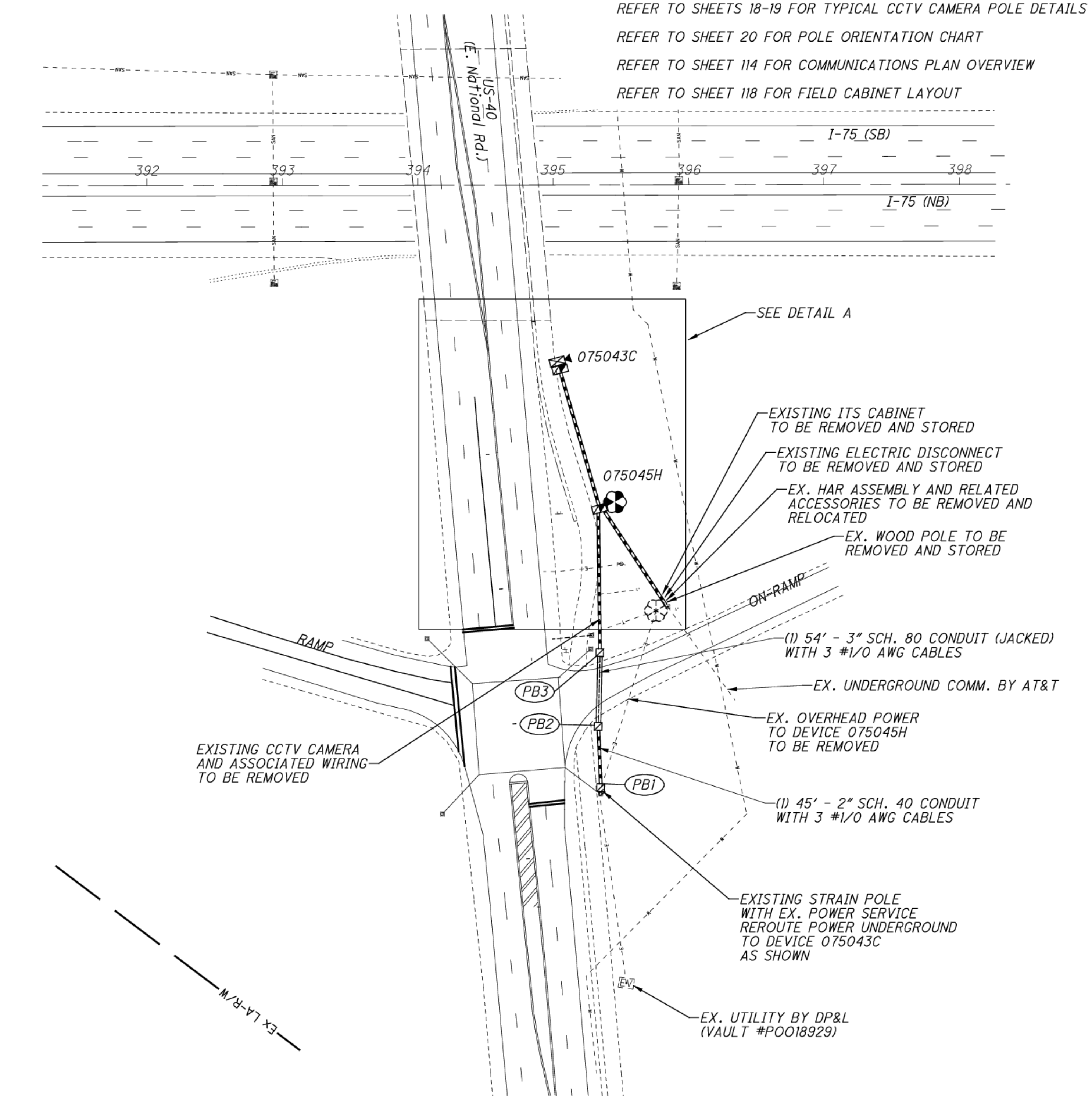
HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED RTM
CHECKED MJH

SITE PLAN #34 - MOT-75-59.74
I-75 AND BENCHWOOD RD

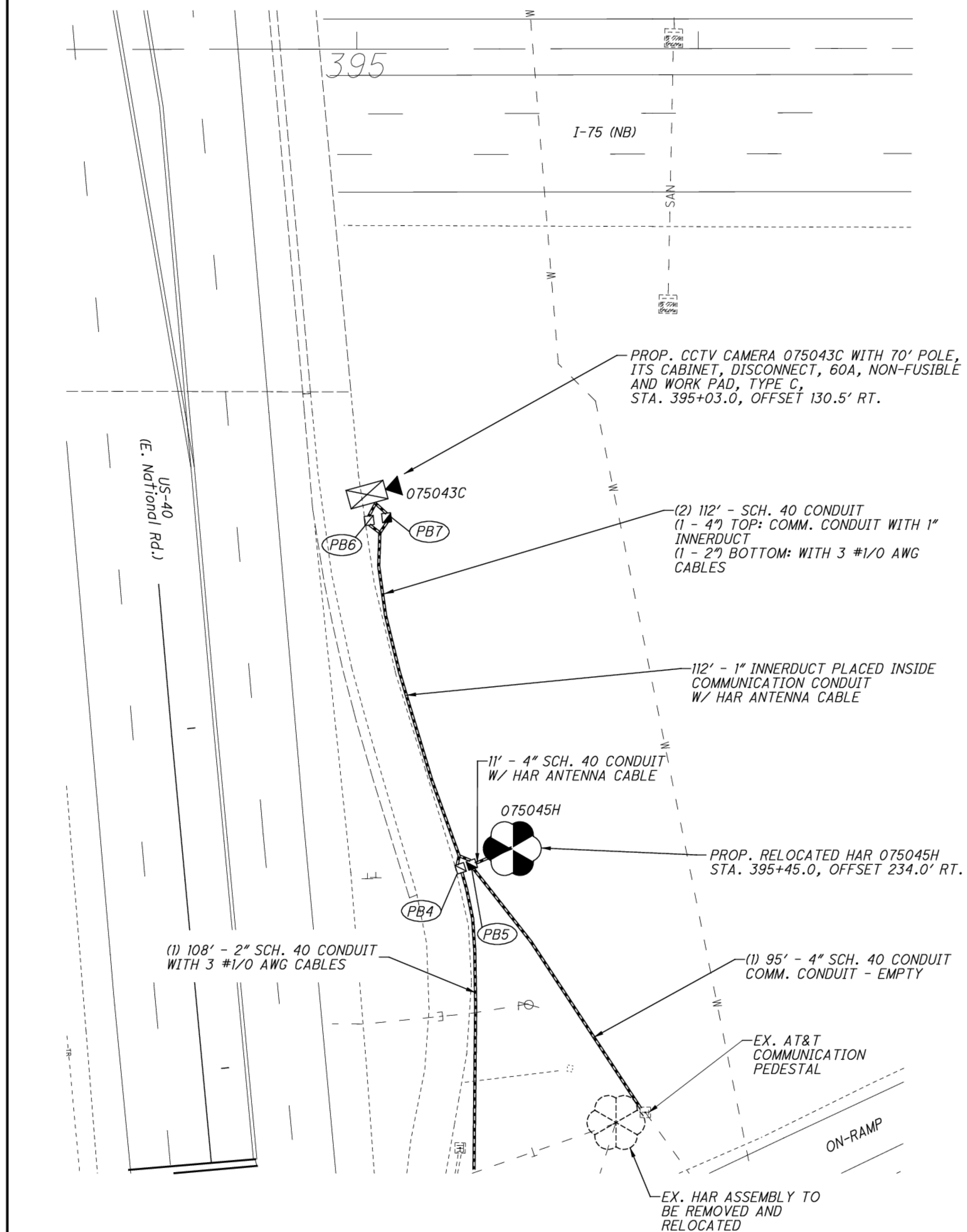
VAR-Dayton Springfield Freeway Management System

REFER TO SHEETS 7-8 FOR PULL BOX AND CONDUIT DETAILS
REFER TO SHEETS 9-10 FOR WORK PAD DETAILS
REFER TO SHEETS 11-15 FOR ELECTRICAL DETAILS
REFER TO SHEET 16 FOR COMMUNICATION SERVICE DETAILS
REFER TO SHEET 17 FOR TYPICAL HAR DETAILS
REFER TO SHEETS 18-19 FOR TYPICAL CCTV CAMERA POLE DETAILS
REFER TO SHEET 20 FOR POLE ORIENTATION CHART
REFER TO SHEET 114 FOR COMMUNICATIONS PLAN OVERVIEW
REFER TO SHEET 118 FOR FIELD CABINET LAYOUT



PB1 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 395+34.0, 445.0' RT.
PB2 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 395+32.5, 400.0' RT.
PB3 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 395+34.0, 345.5' RT.
PB4 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 395+36.5, 239.0' RT.
PB5 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 395+36.5, 239.0' RT.
PB6 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 395+05.0, 138.0' RT.
PB7 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 395+05.0, 138.0' RT.

DETAIL A - NOT TO SCALE
SEE SHEET 85 FOR WIRING INFORMATION



HORIZONTAL SCALE IN FEET: 0 25 50 100

CALCULATED RTM
CHECKED MJH

SITE PLAN #35 - MOT-75-63.19
I-75 AND US-40

VAR-Dayton Springfield Freeway Management System

SUB-SUMMARY			
ITEM	TOTAL	UNIT	DESCRIPTION
202	290	FT	REMOVAL, MISC.: AERIAL DISTRIBUTION CABLE REMOVED
625	1200	FT	NO. 1/0 AWG 5000 VOLT DISTRIBUTION CABLE
625	270	FT	CONDUIT, 2", 725.05, AS PER PLAN
625	210	FT	CONDUIT, 4", 725.05, AS PER PLAN
625	60	FT	CONDUIT JACKED OR DRILLED, 3", AS PER PLAN
625	360	FT	TRENCH, 24" DEEP
625	5	EACH	PULL BOX, 725.08, 18", AS PER PLAN, TYPE A (ELECTRIC)
625	2	EACH	PULL BOX, MISC.: PULL BOX, 725.08, 32", TYPE B (TRAFFIC)
625	2	EACH	GROUND ROD
625	1	EACH	LIGHTING, MISC.: REUSE OF EXISTING POWER SERVICE
631	1	EACH	SIGN LIGHTING, MISC.: DISCONNECT SWITCH, 60A
631	1	EACH	REMOVAL OF MISC. TRAFFIC SIGNAL ITEM: REMOVAL OF ELECTRICAL DISCONNECT AND STORAGE
632	120	EACH	INTERCONNECT CABLE, MISC.: INNERDUCT, 1"
632	1	EACH	INTERCONNECT, MISC.: REMOVAL OF HIGHWAY ADVISORY RADIO ASSEMBLY AND REERECTION
632	1	EACH	REMOVAL OF MISC. TRAFFIC SIGNAL ITEM: REMOVAL OF EXISTING CCTV CAMERA ASSEMBLY AND STORAGE, AS PER PLAN
632	1	EACH	REMOVAL OF MISC. TRAFFIC SIGNAL ITEM: REMOVAL OF EXISTING ITS CABINET AND STORAGE, AS PER PLAN
632	1	EACH	REMOVAL OF MISC. TRAFFIC SIGNAL ITEM: REMOVAL OF WOOD POLE AND STORAGE, AS PER PLAN
632	1	EACH	SIGNALIZATION, MISC.: CCTV IP - CAMERA SYSTEM, CISCO VSOM 4.2 COMPATIBLE, UNPRESSURIZED
632	1	EACH	SIGNALIZATION, MISC.: CCTV POLE, TYPE A (70 FT.), WITH LOWERING DEVICE
632	1	EACH	SIGNALIZATION, MISC.: CONCRETE POLE, HAR SUPPORT
632	1	EACH	SIGNALIZATION, MISC.: DEVICE WORK PAD, TYPE C
633	1	EACH	CONTROLLER ITEM, MISC.: FIELD EQUIPMENT CABINET, ITS CABINET

PLAN CLARIFICATIONS

SITE #35: I-75 & US 40.

CONTRACTOR:
CCTV CAMERA: THE EXISTING CCTV CAMERA LOCATED ON THE SIGN SUPPORT AND ANY RELATED CAMERA ACCESSORIES SHALL BE REMOVED AND STORED. CONSTRUCT A NEW CCTV CAMERA SITE PER SITE PLAN, SHEETS 18 AND 19, SPECIAL PROVISIONS SECTIONS 3.22, 3.24/25, AND ANY OTHER PLANS OR SPECIAL PROVISIONS SECTIONS THAT MAY APPLY. CCTV CAMERA POLE SHALL BE LOCATED AT STA. 395+03.0, OFFSET 130.5' RT AND BE ORIENTED PER ORIENTATION CHART ON SHEET 20. A NEW ITS CABINET SHALL BE CONSTRUCTED ON THE CONCRETE CAMERA POLE AND HOUSE THE CCTV EQUIPMENT AND RELOCATED HAR CONTROLLER. THE ITS CABINET SHALL BE CONNECTED TO 60 AMP POWER SERVICE.

HAR: THE EXISTING HAR ANTENNA AND RELATED EQUIPMENT SHALL BE REMOVED FROM THE EXISTING WOOD POLE AND RELOCATED ON A NEW CONCRETE POLE AT STA. 395+45.0, OFFSET 234.0' RT. THE HAR ANTENNA CABLE SHALL RUN FROM THE RELOCATED HAR CONTROLLER IN THE ITS CABINET ON THE CCTV POLE TO THE ANTENNA ON THE NEW CONCRETE POLE VIA A 1" INNERDUCT IN THE PROPOSED 4" COMM. CONDUIT. SEE SITE PLANS, SHEET 17, SPECIAL PROVISIONS SECTIONS 3.20 AND 3.21, AND ANY OTHER PLANS OR SPECIAL PROVISIONS THAT MAY BE APPLICABLE. THE EXISTING HAR WOOD POLE SHALL BE REMOVED AND STORED. THE ITS CABINET AND ANY CCTV CAMERA RELATED EQUIPMENT ON THE HAR WOOD POLE SHALL BE REMOVED AND STORED.

POWER: EXISTING POWER SERVICE SHALL BE REROUTED FROM MAIN DISCONNECT ON EXISTING UTILITY POLE TO THE ITS CABINET ON THE NEW CCTV CONCRETE POLE. THE EXISTING DISCONNECT AND METER ON THE UTILITY POLE SHALL REMAIN. FROM THE UTILITY POLE, THE POWER SERVICE SHALL BE ROUTED UNDERGROUND TO THE ITS CABINET ON THE CAMERA CONCRETE POLE. A LOCAL DISCONNECT SHALL BE PROVIDED ON THE CCTV POLE.

COORDINATE COMMUNICATION CONSTRUCTION WITH TW TELECOM.

LOCATIONS OF NEW PULL BOXES IN THE PLAN ARE APPROXIMATE AND WILL BE DETERMINED BY THE ENGINEER.

TEST EQUIPMENT AS PER SPECIAL PROVISIONS FOR LOCAL OPERATION. SEE SPECIAL PROVISIONS SECTIONS 2.23 - 2.27.

ODOT:
FURNISH AND INSTALL NETWORK SWITCH, AND SMART UPS FOR THE ITS CABINET MOUNTED ON THE CCTV POLE.

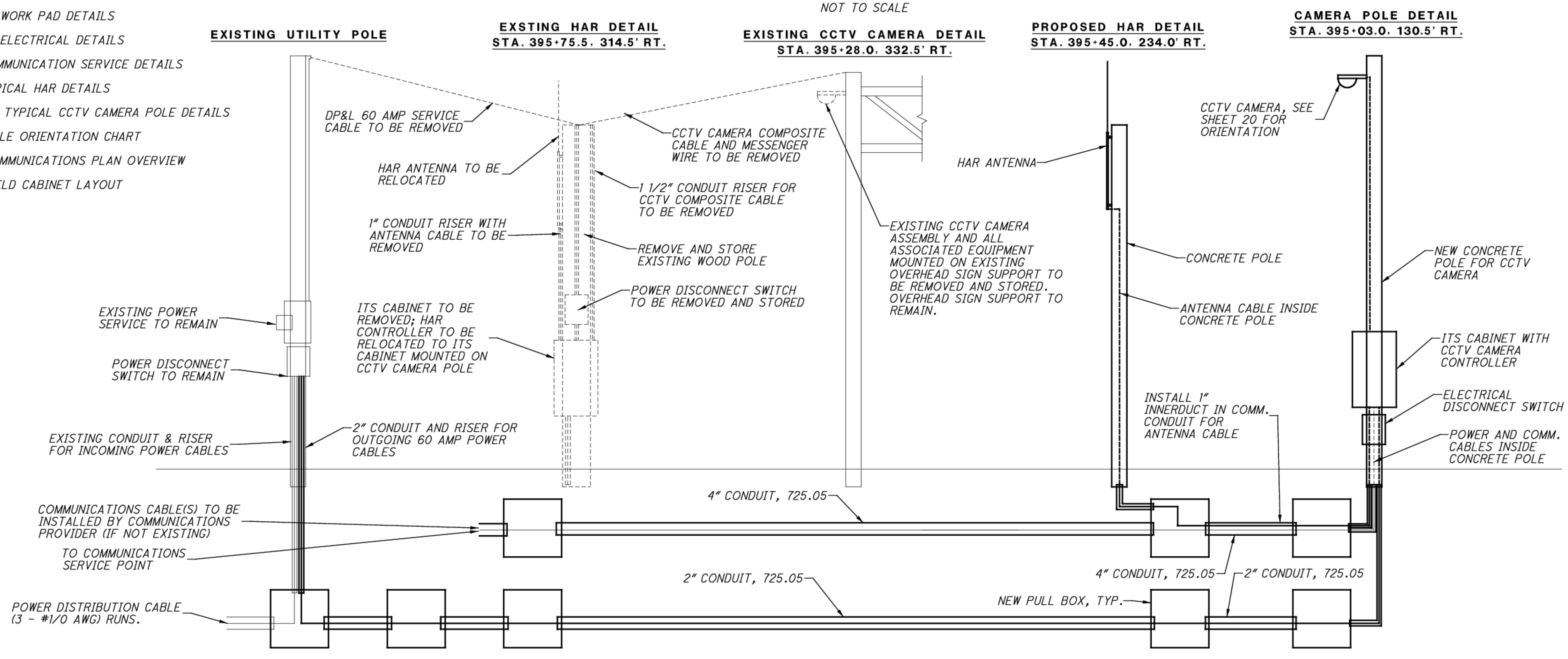
TEST NETWORK CONNECTION FOR PROPER OPERATION AS PER SPECIAL PROVISIONS.

TW TELECOM:
EXTEND AND UPGRADE AS NEEDED THE EXISTING COMMUNICATION SERVICE TO THE NEW CABINET LOCATION AS SHOWN IN THE PLANS.

REFER TO SHEETS 7-8 FOR PULL BOX AND CONDUIT DETAILS
REFER TO SHEETS 9-10 FOR WORK PAD DETAILS
REFER TO SHEETS 11-15 FOR ELECTRICAL DETAILS
REFER TO SHEET 16 FOR COMMUNICATION SERVICE DETAILS
REFER TO SHEET 17 FOR TYPICAL HAR DETAILS
REFER TO SHEETS 18-19 FOR TYPICAL CCTV CAMERA POLE DETAILS
REFER TO SHEET 20 FOR POLE ORIENTATION CHART
REFER TO SHEET 114 FOR COMMUNICATIONS PLAN OVERVIEW
REFER TO SHEET 118 FOR FIELD CABINET LAYOUT

SITE #35 WIRING DETAIL

NOT TO SCALE



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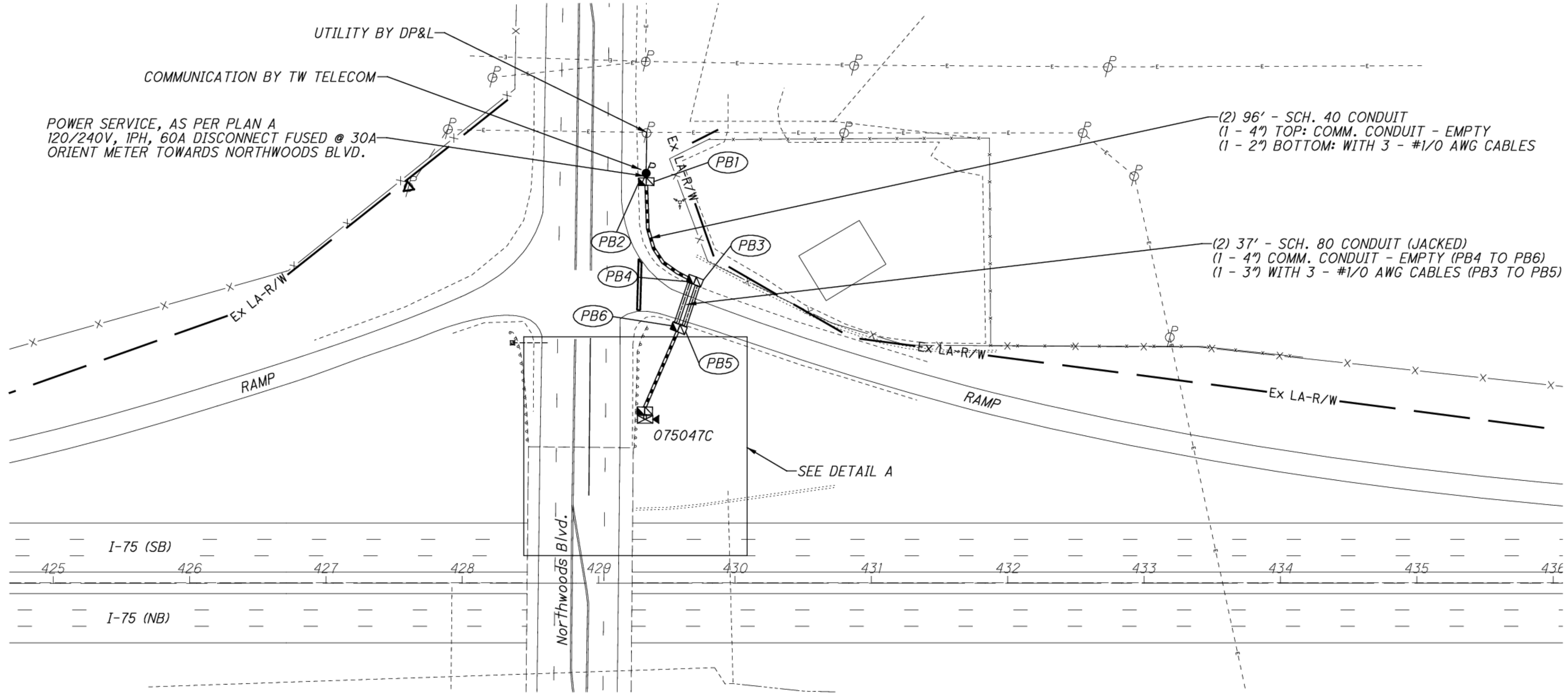
0 25 50 100
HORIZONTAL SCALE IN FEET

CALCULATED RTM
CHECKED MJH

SITE #35 - MOT-75-63.19 - DETAIL
I-75 AND US-40

VAR-Dayton Springfield Freeway Management System

(PB1) - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 429+35.0, 294.0' LT.
(PB2) - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 429+35.0, 294.0' LT.
(PB3) - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 429+70.5, 221.5' LT.
(PB4) - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 429+70.5, 221.5' LT.
(PB5) - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 429+58.5, 186.5' LT.
(PB6) - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 429+58.5, 186.5' LT.
(PB7) - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 429+34.0, 126.5' LT.
(PB8) - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 429+34.0, 126.5' LT.



SUB-SUMMARY			
ITEM	TOTAL	UNIT	DESCRIPTION
606	25	FT	GUARDRAIL, MISC.: GUARDRAIL REMOVED AND REPLACED
625	840	FT	NO. 1/0 AWG 5000 VOLT DISTRIBUTION CABLE
625	170	FT	CONDUIT, 2", 725.05, AS PER PLAN
625	170	FT	CONDUIT, 4", 725.05, AS PER PLAN
625	40	FT	CONDUIT JACKED OR DRILLED, 3", AS PER PLAN
625	40	FT	CONDUIT JACKED OR DRILLED, 4", AS PER PLAN
625	170	FT	TRENCH, 24" DEEP
625	4	EACH	PULL BOX, 725.08, 18", AS PER PLAN, TYPE A (ELECTRIC)
625	4	EACH	PULL BOX, MISC.: PULL BOX, 725.08, 32", TYPE B (TRAFFIC)
625	1	EACH	GROUND ROD
625	1	EACH	POWER SERVICE, AS PER PLAN A
631	1	EACH	SIGN LIGHTING, MISC.: DISCONNECT SWITCH, 60A
632	1	EACH	SIGNALIZATION, MISC.: CCTV IP - CAMERA SYSTEM, CISCO VSOM 4.2 COMPATIBLE, UNPRESSURIZED
632	1	EACH	SIGNALIZATION, MISC.: CCTV POLE, TYPE A (70 FT.), WITH LOWERING DEVICE
632	1	EACH	SIGNALIZATION, MISC.: DEVICE WORK PAD, TYPE C
633	1	EACH	CONTROLLER ITEM, MISC.: FIELD EQUIPMENT CABINET, ITS CABINET

REFER TO SHEETS 7-8 FOR PULL BOX AND CONDUIT DETAILS

REFER TO SHEETS 9-10 FOR WORK PAD DETAILS

REFER TO SHEETS 11-15 FOR ELECTRICAL DETAILS

REFER TO SHEET 16 FOR COMMUNICATION SERVICE DETAILS

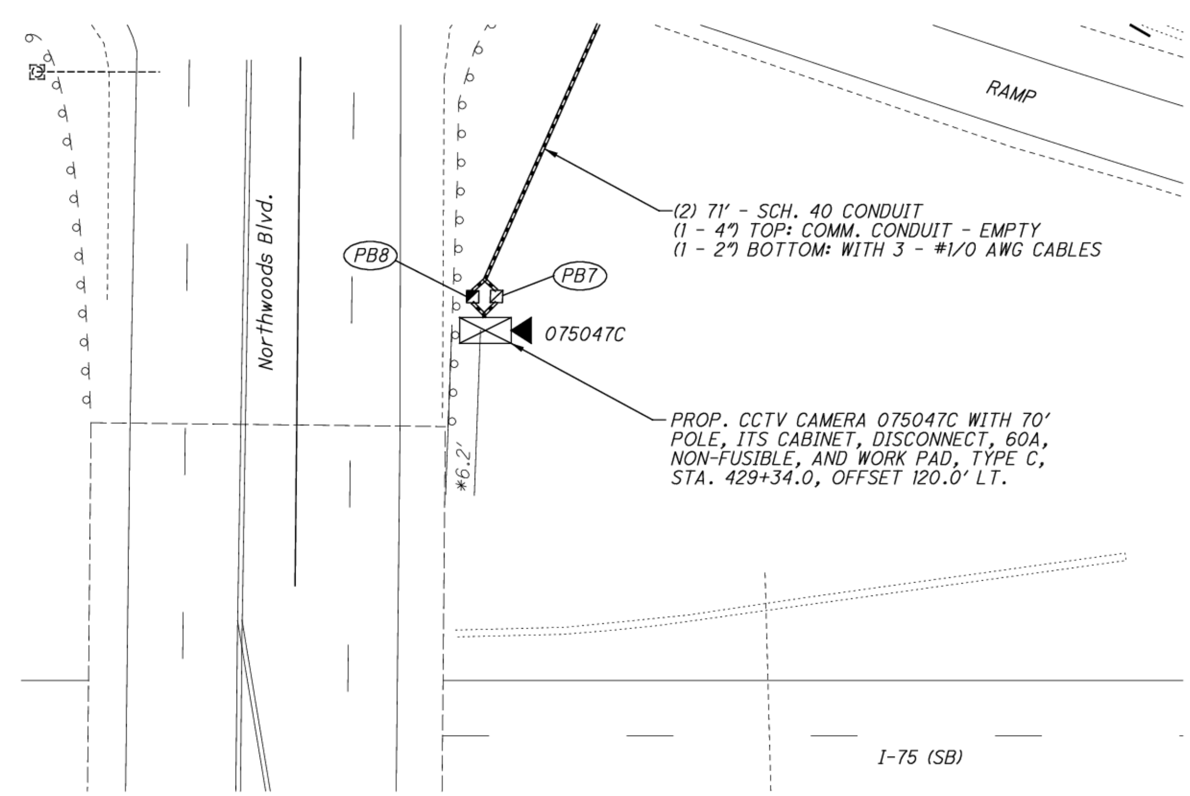
REFER TO SHEETS 18-19 FOR TYPICAL CCTV CAMERA POLE DETAILS

REFER TO SHEET 20 FOR POLE ORIENTATION CHART

REFER TO SHEET 114 FOR COMMUNICATIONS PLAN OVERVIEW

REFER TO SHEET 115 FOR FIELD CABINET LAYOUT

DETAIL A - NOT TO SCALE



* PROPOSED OFFSET BETWEEN DEVICE AND FRONT OF GUARDRAIL.

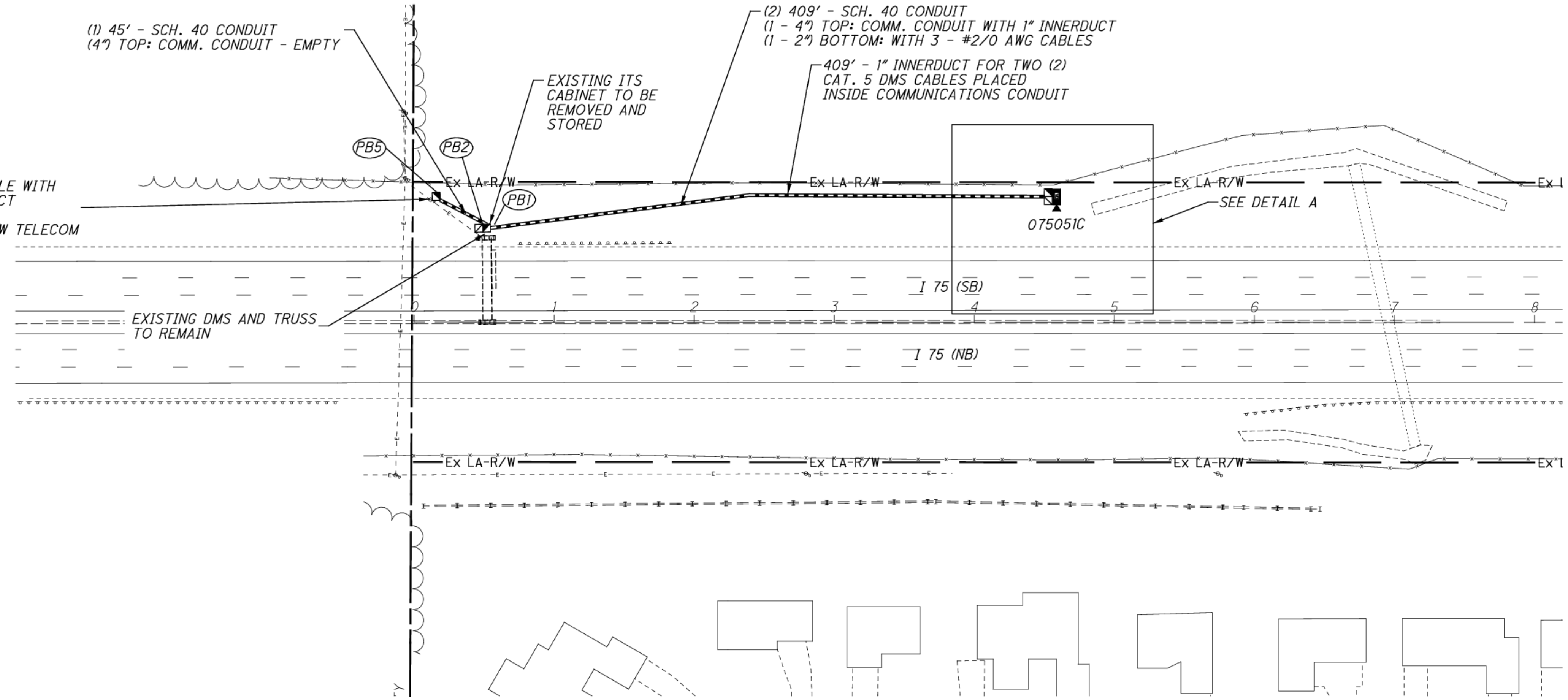
N

0 25 50 100
HORIZONTAL SCALE IN FEET

CALCULATED RTM
CHECKED MJH

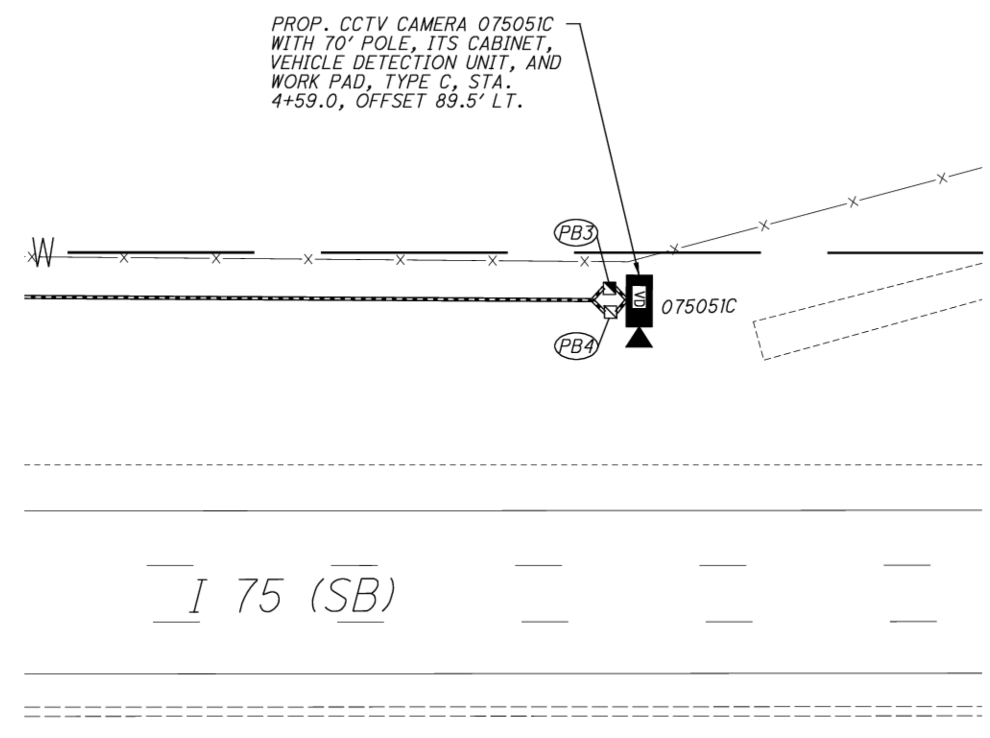
SITE PLAN #36 - MOT-75-63.85
I-75 AND NORTHWOODS BLVD

VAR-Dayton Springfield Freeway Management System



DETAIL A - NOT TO SCALE

SEE SHEET 88 FOR WIRING INFORMATION



REFER TO SHEETS 7-8 FOR PULL BOX AND CONDUIT DETAILS
REFER TO SHEETS 9-10 FOR WORK PAD DETAILS
REFER TO SHEETS 11-15 FOR ELECTRICAL DETAILS
REFER TO SHEET 16 FOR COMMUNICATION SERVICE DETAILS
REFER TO SHEETS 18-19 FOR TYPICAL CCTV CAMERA POLE DETAILS
REFER TO SHEET 20 FOR POLE ORIENTATION CHART
REFER TO SHEET 21 FOR TYPICAL DMS DETAILS
REFER TO SHEET 25 FOR TYPICAL DMS TRUSS FOUNDATION DETAILS
REFER TO SHEETS 28-29 FOR TYPICAL DMS TRUSS DETAILS
REFER TO SHEET 114 FOR COMMUNICATIONS PLAN OVERVIEW
REFER TO SHEET 120 FOR FIELD CABINET LAYOUT

PB1 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 0+61.0, 62.5' LT.
PB2 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 0+61.0, 62.5' LT.
PB3 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 4+53.0, 89.5' LT.
PB4 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 4+53.0, 89.5' LT.
PB5 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 4+53.0, 89.5' LT.

N

0 25 50 100
HORIZONTAL SCALE IN FEET

CALCULATED RTM
CHECKED MJH

SITE PLAN #37 - MIA-75-65.37
I-75 AT MIA/MONT CO. LINE

VAR-Dayton Springfield Freeway Management System

PLAN CLARIFICATIONS

SITE #37: I-75 & MIA/MOT COUNTY LINE

CONTRACTOR:
CCTV CAMERA: CONSTRUCT A CCTV CAMERA SITE PER SITE PLAN, SHEETS 18 AND 19, SPECIAL PROVISIONS SECTIONS 3.22, 3.24/25, AND ANY OTHER PLANS OR SPECIAL PROVISIONS SECTIONS THAT MAY APPLY. CCTV CAMERA POLE SHALL BE LOCATED AT STA. 4+59.0, OFFSET 89.5' RT AND BE ORIENTED PER ORIENTATION CHART ON SHEET 20. A NEW ITS CABINET SHALL BE INSTALLED ON THE CONCRETE CAMERA POLE. THE CCTV AND RELOCATED DMS CONTROLLERS SHALL BE LOCATED IN THE ITS CABINET. THE ITS CABINET SHALL BE CONNECTED TO A 30 AMP POWER SERVICE.

DMS: THE EXISTING DMS SHALL REMAIN. INSTALL WIRE MESH FOR THE EXISTING DMS CATWALK PER DETAIL SHEET 22-24, SPECIAL PROVISIONS SECTION 3.11, AND ANY OTHER PLANS OR SPECIAL PROVISIONS THAT MAY BE APPLICABLE. THE EXISTING DMS CONTROLLER SHALL BE RELOCATED FROM ITS CABINET ON DMS ENDFRAME TO THE NEW ITS CABINET ON THE CONCRETE CAMERA POLE. TWO (2) NEW CAT. 5 CABLES SHALL PROVIDE COMM. SERVICE FROM NETWORK SWITCH IN NEW ITS CABINET TO MAIN DMS CONTROLLER IN THE SIGN AND THEN BACK TO AUXILIARY CONTROL PANEL IN THE ITS CABINET ON CAMERA CONCRETE POLE VIA 1" INNERDUCT IN COMM. CONDUITS. THE EXISTING ITS CABINET ON THE DMS ENDFRAME SHALL BE REMOVED AND STORED.

VEHICLE DETECTION UNIT: INSTALL A VEHICLE DETECTION UNIT ON THE CCTV POLE. REFER TO SITE PLANS, SPECIAL PROVISION SECTION 3.27, AND ANY OTHER PLANS OR SPECIAL PROVISIONS THAT MAY APPLY. ORIENT DEVICE ON CCTV POLE AS DIRECTED BY THE ENGINEER.

LOCATIONS OF PULL BOXES IN THE PLAN ARE APPROXIMATE AND WILL BE DETERMINED BY THE ENGINEER.

POWER: EXISTING POWER SERVICE TO THE DMS SHALL REMAIN. 30 AMP POWER SERVICE SHALL BE EXTENDED TO THE NEW ITS CABINET ON THE CCTV CAMERA POLE FROM THE DMS POWER PANEL AS SHOWN IN THE SCHEMATIC ON THIS SHEET.

COORDINATE COMMUNICATION CONSTRUCTION WITH TW TELECOM.

TEST EQUIPMENT AS PER SPECIAL PROVISIONS FOR LOCAL OPERATION. SEE SPECIAL PROVISIONS SECTIONS 2.23 - 2.27.

ODOT:
FURNISH AND INSTALL NETWORK SWITCH, TERMINAL SERVER, AND SMART UPS FOR THE ITS CABINET.

TEST NETWORK CONNECTION FOR PROPER OPERATION AS PER SPECIAL PROVISIONS.

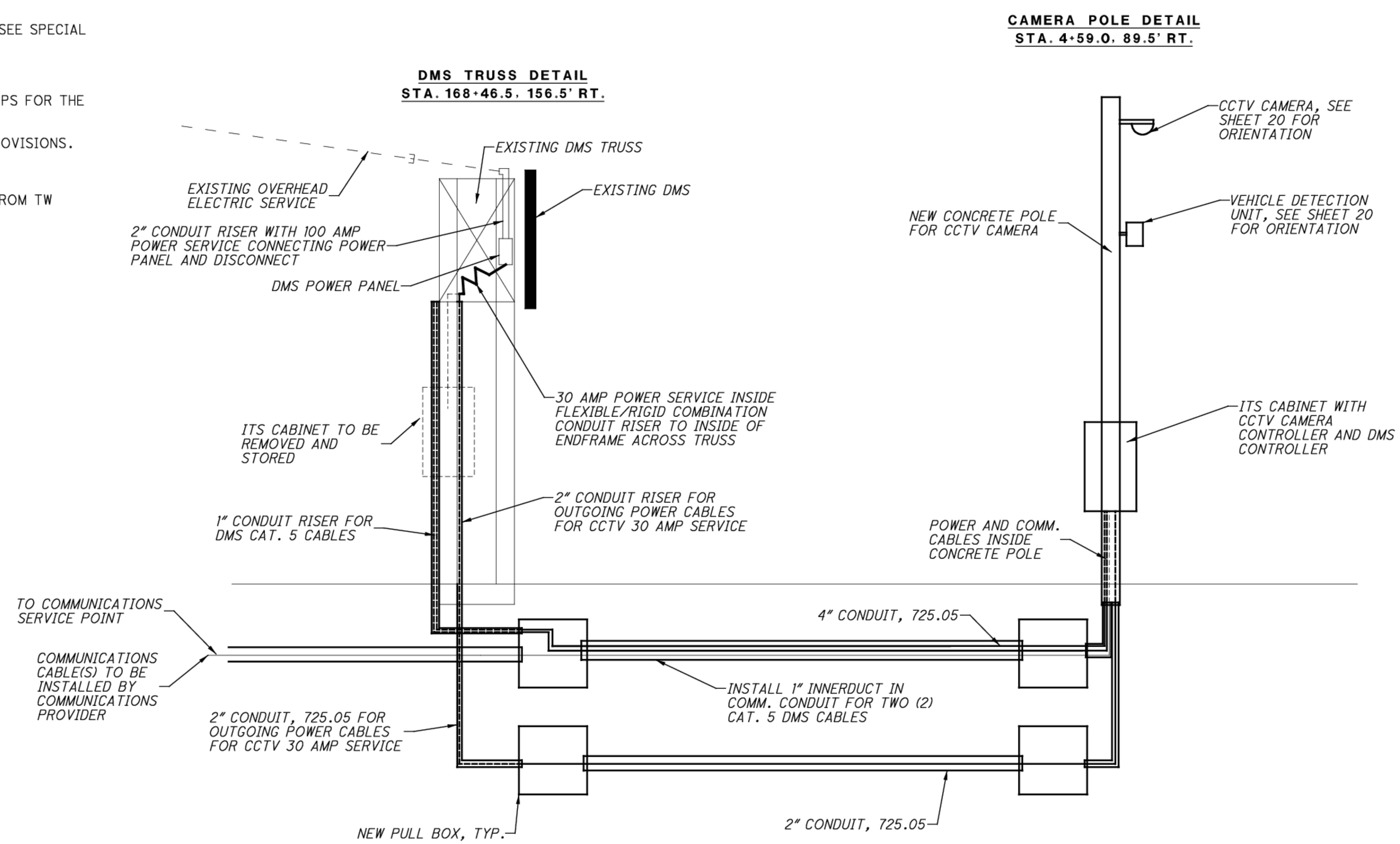
TW TELECOM:
FURNISH AND INSTALL COMMUNICATION SERVICE CABLE TO ITS CABINET FROM TW TELECOM SERVICE POINT.

SUB-SUMMARY

ITEM	TOTAL	UNIT	DESCRIPTION
625	1650	FT	NO. 2/0 AWG 5000 VOLT DISTRIBUTION CABLE
625	420	FT	CONDUIT, 2", 725.05, AS PER PLAN
625	475	FT	CONDUIT, 4", 725.05, AS PER PLAN
625	475	FT	TRENCH, 24" DEEP
625	2	EACH	PULL BOX, 725.08, 18", AS PER PLAN, TYPE A (ELECTRIC)
625	3	EACH	PULL BOX, MISC.: PULL BOX, 725.08, 32", TYPE B (TRAFFIC)
625	1	EACH	GROUND ROD
630	74	SQ FT	SIGNING, MISC.: WIRE MESH FOR DMS TRUSS CATWALK
631	1030	FT	SIGN LIGHTING, MISC.: DYNAMIC MESSAGE SIGN, CATEGORY FIVE CABLE
631	1	EACH	SIGN LIGHTING, MISC.: REMOVAL OF DYNAMIC MESSAGE SIGN CONTROLLER AND REERECTION
632	410	FT	INTERCONNECT CABLE, MISC.: INNERDUCT, 1"
632	1	EACH	CONDUIT RISER, 1" DIAMETER
632	1	EACH	REMOVAL OF MISC. TRAFFIC SIGNAL ITEM: REMOVAL OF EXISTING ITS CABINET AND STORAGE, AS PER PLAN
632	1	EACH	SIGNALIZATION, MISC.: CCTV IP - CAMERA SYSTEM, CISCO VSOM 4.2 COMPATIBLE, UNPRESSURIZED
632	1	EACH	SIGNALIZATION, MISC.: CCTV POLE, TYPE A (70 FT.), WITH LOWERING DEVICE
632	1	EACH	SIGNALIZATION, MISC.: DEVICE WORK PAD, TYPE C
632	1	EACH	SIGNALIZATION, MISC.: VEHICLE DETECTION UNIT
633	1	EACH	CONTROLLER ITEM, MISC.: FIELD EQUIPMENT CABINET, ITS CABINET

SITE #37 WIRING DETAIL

NOT TO SCALE



REFER TO SHEETS 7-8 FOR PULL BOX AND CONDUIT DETAILS
REFER TO SHEETS 9-10 FOR WORK PAD DETAILS
REFER TO SHEETS 11-15 FOR ELECTRICAL DETAILS
REFER TO SHEET 16 FOR COMMUNICATION SERVICE DETAILS
REFER TO SHEETS 18-19 FOR TYPICAL CCTV CAMERA POLE DETAILS
REFER TO SHEET 20 FOR POLE ORIENTATION CHART
REFER TO SHEET 21 FOR TYPICAL DMS DETAILS
REFER TO SHEET 25 FOR TYPICAL DMS TRUSS FOUNDATION DETAILS
REFER TO SHEETS 28-29 FOR TYPICAL DMS TRUSS DETAILS
REFER TO SHEET 114 FOR COMMUNICATIONS PLAN OVERVIEW
REFER TO SHEET 120 FOR FIELD CABINET LAYOUT

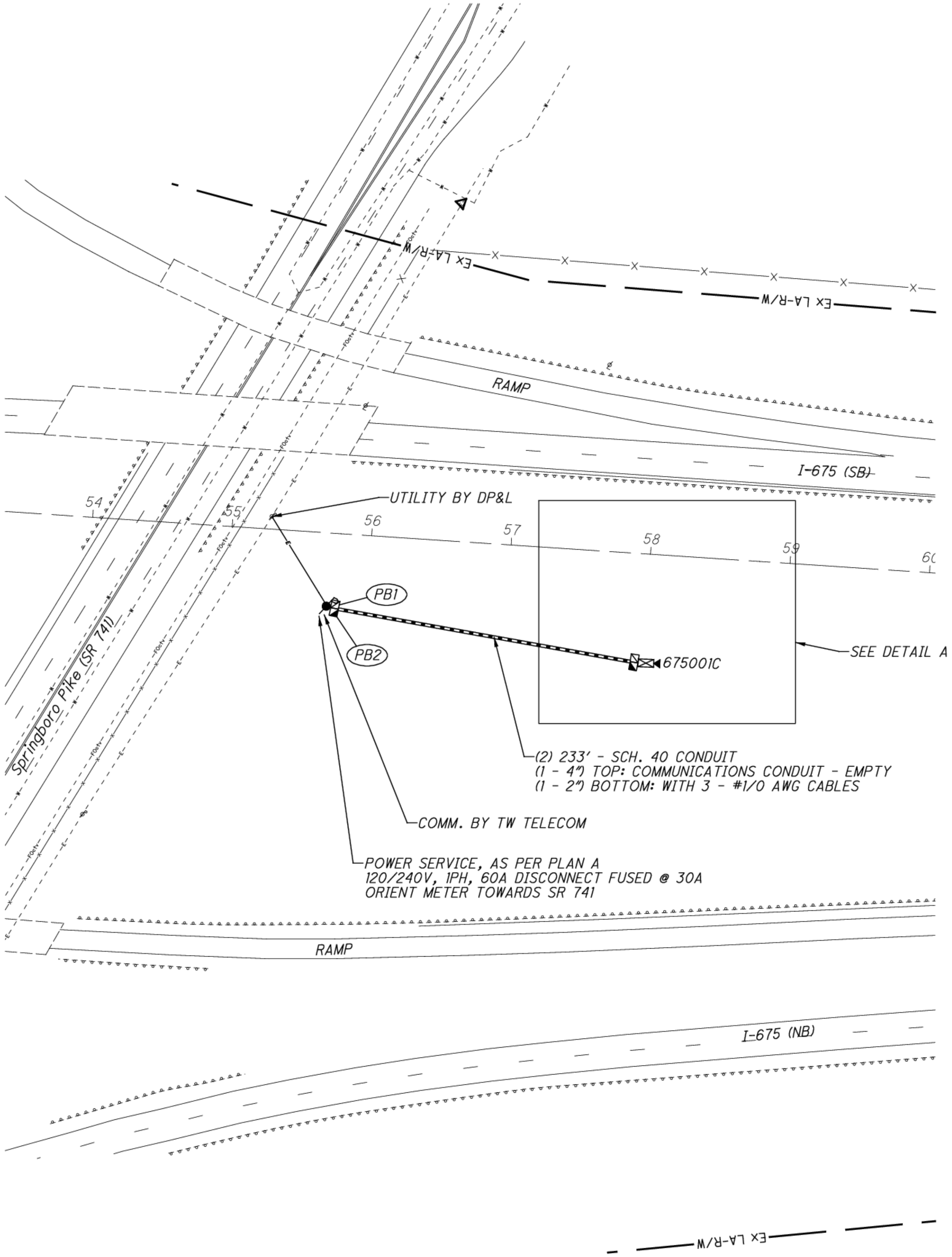
HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED RTM
CHECKED MJH

SITE #37 - MIA-75-65.37 - DETAIL
I-75 AT MIA/MONT CO. LINE

VAR-Dayton Springfield Freeway Management System

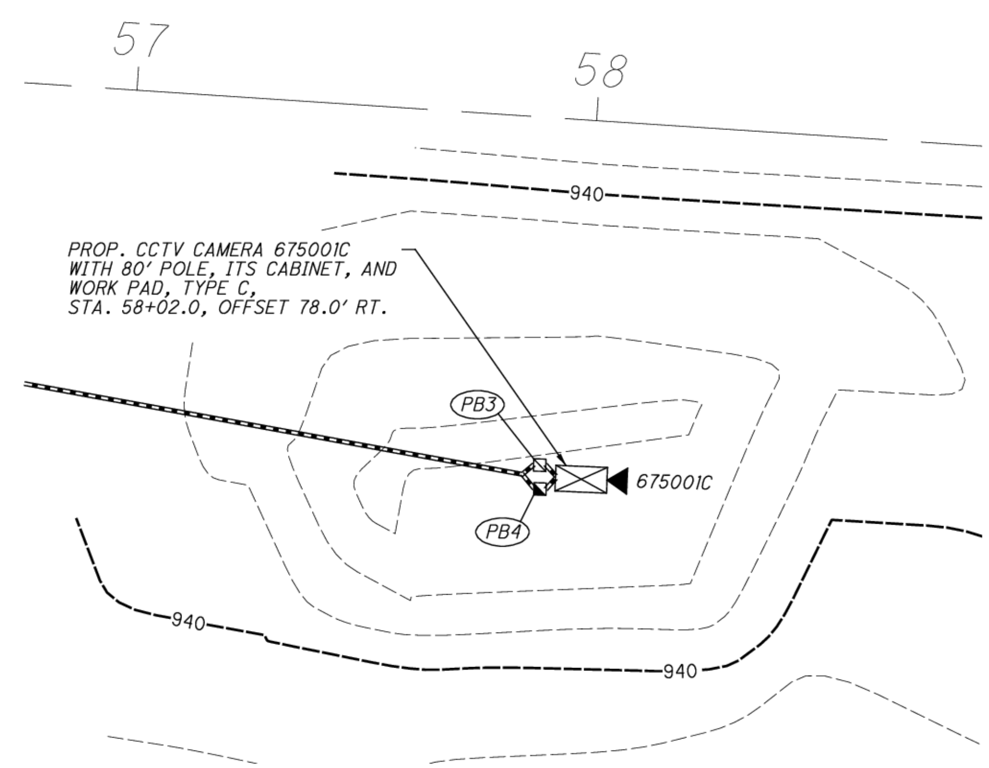
SUB-SUMMARY			
ITEM	TOTAL	UNIT	DESCRIPTION
625	900	FT	NO. 1/0 AWG 5000 VOLT DISTRIBUTION CABLE
625	240	FT	CONDUIT, 2", 725.05, AS PER PLAN
625	240	FT	CONDUIT, 4", 725.05, AS PER PLAN
625	240	FT	TRENCH, 24" DEEP
625	2	EACH	PULL BOX, 725.08, 18", AS PER PLAN, TYPE A (ELECTRIC)
625	2	EACH	PULL BOX, MISC.: PULL BOX, 725.08, 32", TYPE B (TRAFFIC)
625	1	EACH	GROUND ROD
625	1	EACH	POWER SERVICE, AS PER PLAN A
632	1	EACH	SIGNALIZATION, MISC.: CCTV IP - CAMERA SYSTEM, CISCO VSOM 4.2 COMPATIBLE, UNPRESSURIZED
632	1	EACH	SIGNALIZATION, MISC.: CCTV POLE, TYPE B (80 FT.), WITH LOWERING DEVICE
632	1	EACH	SIGNALIZATION, MISC.: DEVICE WORK PAD, TYPE C
633	1	EACH	CONTROLLER ITEM, MISC.: FIELD EQUIPMENT CABINET, ITS CABINET



REFER TO SHEETS 7-8 FOR PULL BOX AND CONDUIT DETAILS
REFER TO SHEETS 9-10 FOR WORK PAD DETAILS
REFER TO SHEETS 11-15 FOR ELECTRICAL DETAILS
REFER TO SHEET 16 FOR COMMUNICATION SERVICE DETAILS
REFER TO SHEETS 18-19 FOR TYPICAL CCTV CAMERA POLE DETAILS
REFER TO SHEET 20 FOR POLE ORIENTATION CHART
REFER TO SHEET 114 FOR COMMUNICATIONS PLAN OVERVIEW
REFER TO SHEET 115 FOR FIELD CABINET LAYOUT

PB1 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 55+77.0, 53.5' RT.
PB2 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 55+77.0, 53.5' RT.
PB3 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 57+93.5, 78.0' RT.
PB4 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 57+93.5, 78.0' RT.

DETAIL A - NOT TO SCALE



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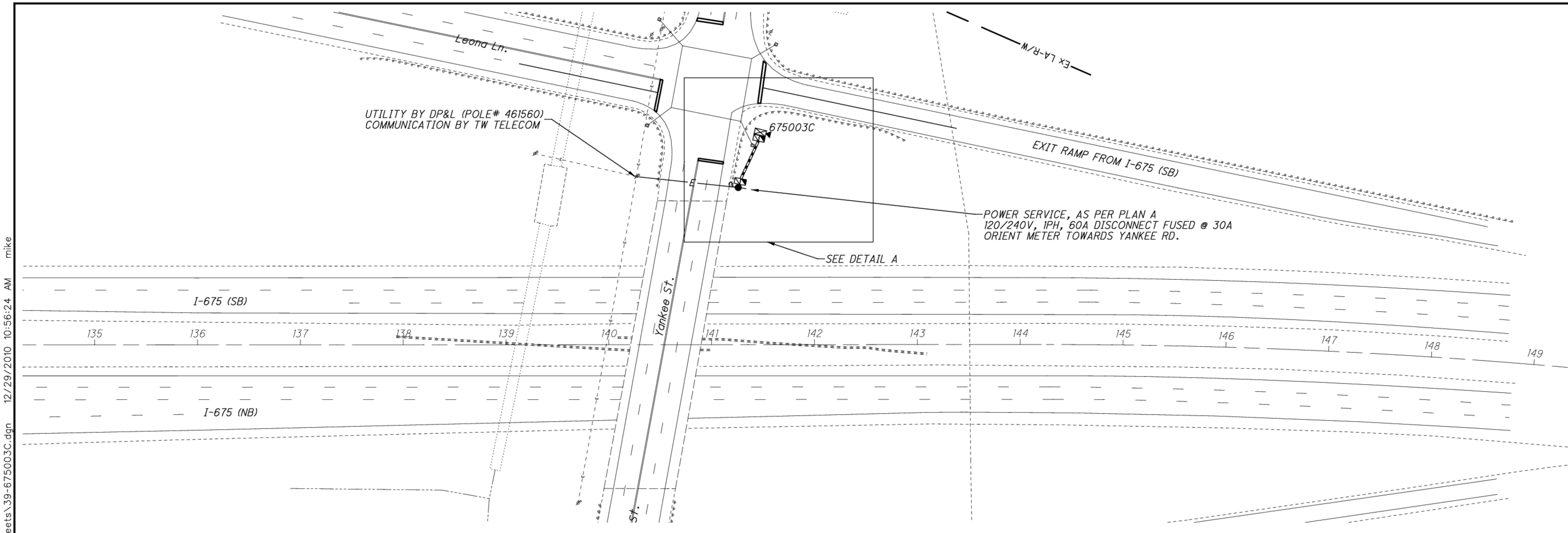
HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED RTM CHECKED MJH

SITE PLAN #38 - MOT-675-0.70
I-675 AND SPRINGBORO PIKE (SR 741)

VAR-Dayton Springfield Freeway Management System



SUB-SUMMARY			
ITEM	TOTAL	UNIT	DESCRIPTION
606	25	FT	GUARDRAIL, MISC.: GUARDRAIL REMOVED AND REPLACED
625	370	FT	NO. 2 AWG 5000 VOLT DISTRIBUTION CABLE
625	60	FT	CONDUIT, 2", 725.05, AS PER PLAN
625	60	FT	CONDUIT, 4", 725.05, AS PER PLAN
625	60	FT	TRENCH, 24" DEEP
625	2	EACH	PULL BOX, 725.08, 18", AS PER PLAN, TYPE A (ELECTRIC)
625	2	EACH	PULL BOX, MISC.: PULL BOX, 725.08, 32", TYPE B (TRAFFIC)
625	1	EACH	GROUND ROD
625	1	EACH	POWER SERVICE, AS PER PLAN A
632	1	EACH	SIGNALIZATION, MISC.: CCTV IP - CAMERA SYSTEM, CISCO VSOM 4.2 COMPATIBLE, UNPRESSURIZED
632	1	EACH	SIGNALIZATION, MISC.: CCTV POLE, TYPE A (70 FT.), WITH LOWERING DEVICE
632	1	EACH	SIGNALIZATION, MISC.: DEVICE WORK PAD, TYPE C
633	1	EACH	CONTROLLER ITEM, MISC.: FIELD EQUIPMENT CABINET, ITS CABINET

REFER TO SHEETS 7-8 FOR PULL BOX AND CONDUIT DETAILS

REFER TO SHEETS 9-10 FOR WORK PAD DETAILS

REFER TO SHEETS 11-15 FOR ELECTRICAL DETAILS

REFER TO SHEET 16 FOR COMMUNICATION SERVICE DETAILS

REFER TO SHEETS 18-19 FOR TYPICAL CCTV CAMERA POLE DETAILS

REFER TO SHEET 20 FOR POLE ORIENTATION CHART

REFER TO SHEET 114 FOR COMMUNICATIONS PLAN OVERVIEW

REFER TO SHEET 115 FOR FIELD CABINET LAYOUT

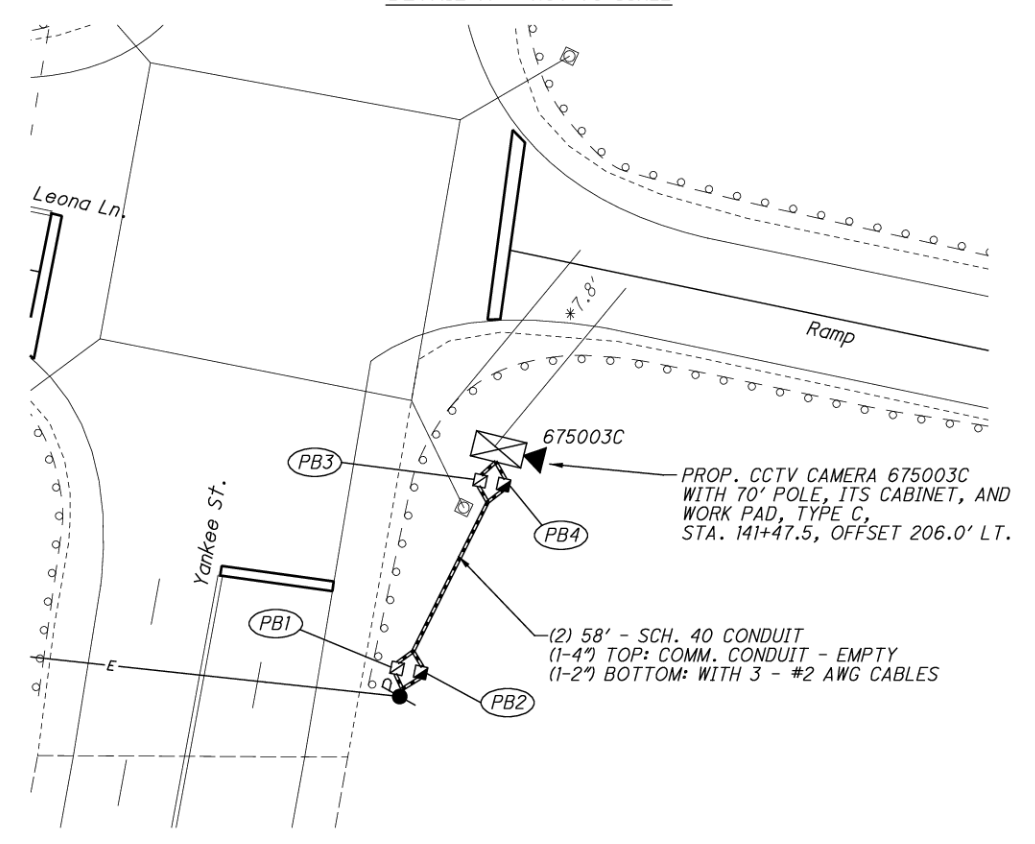
PB1 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 141+27.5, 158.0' LT.

PB2 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 141+27.5, 158.0' LT.

PB3 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 141+43.5, 200.5' LT.

PB4 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 141+43.5, 200.5' LT.

DETAIL A - NOT TO SCALE



* PROPOSED OFFSET BETWEEN DEVICE AND FRONT OF GUARDRAIL.

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED RTM

CHECKED MJH

SITE PLAN #39 - MOT675-2.35
I-675 AND YANKEE ST

VAR-Dayton Springfield Freeway Management System

REFER TO SHEETS 7-8 FOR PULL BOX AND CONDUIT DETAILS

REFER TO SHEETS 9-10 FOR WORK PAD DETAILS

REFER TO SHEETS 11-15 FOR ELECTRICAL DETAILS

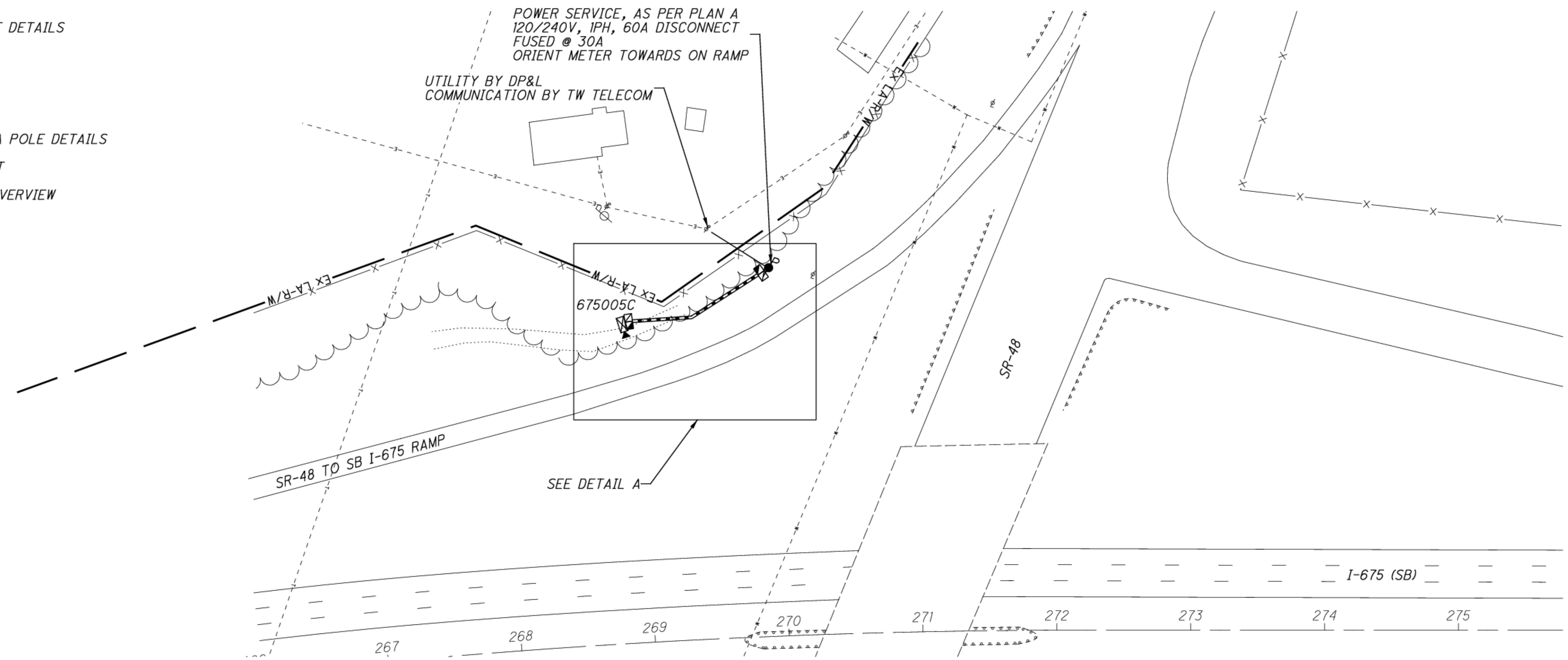
REFER TO SHEET 16 FOR COMMUNICATION DETAILS

REFER TO SHEETS 18-19 FOR TYPICAL CCTV CAMERA POLE DETAILS

REFER TO SHEET 20 FOR POLE ORIENTATION CHART

REFER TO SHEET 114 FOR COMMUNICATIONS PLAN OVERVIEW

REFER TO SHEET 115 FOR FIELD CABINET LAYOUT



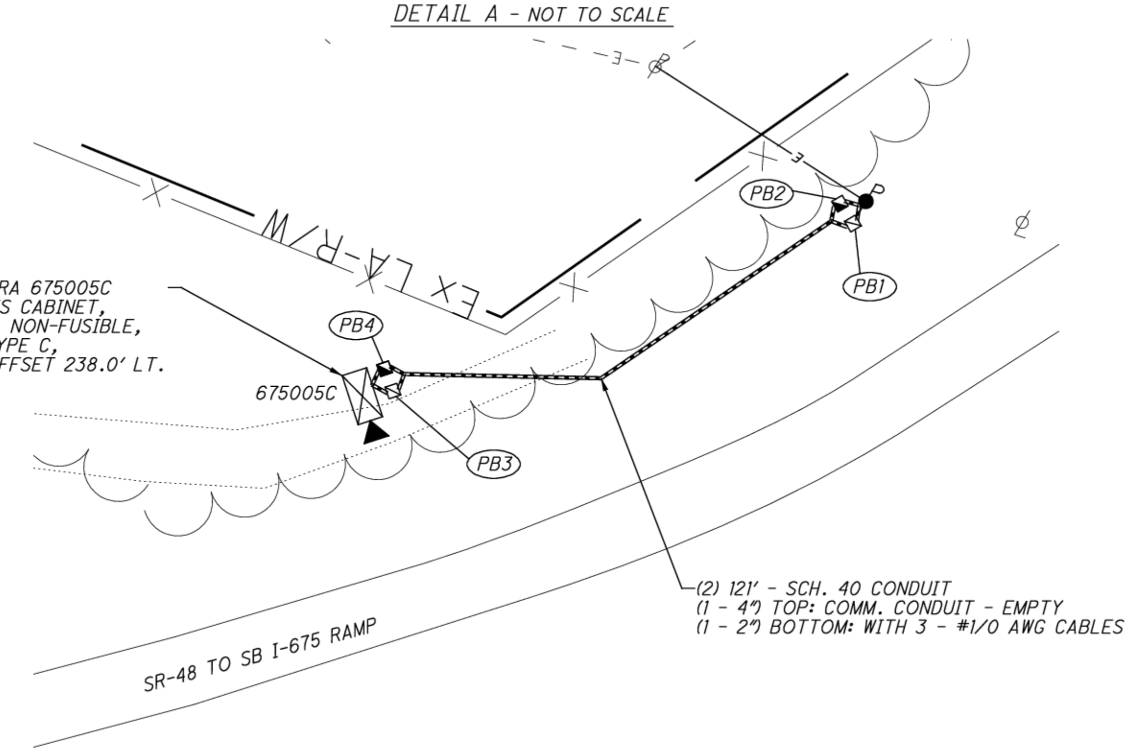
(PB1) - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 269+90.0, 271.5' LT.

(PB2) - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 269+90.0, 271.5' LT.

(PB3) - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 268+89.0, 238.0' LT.

(PB4) - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 268+89.0, 238.0' LT.

DETAIL A - NOT TO SCALE



SUB-SUMMARY

ITEM	TOTAL	UNIT	DESCRIPTION
625	560	FT	NO. 1/0 AWG 5000 VOLT DISTRIBUTION CABLE
625	130	FT	CONDUIT, 2", 725.05, AS PER PLAN
625	130	FT	CONDUIT, 4", 725.05, AS PER PLAN
625	50	FT	TRENCH, 24" DEEP
625	80	FT	TRENCH, MISC.: REMOVE AND REPLACE CLASS C ROCK
625	2	EACH	PULL BOX, 725.08, 18", AS PER PLAN, TYPE A (ELECTRIC)
625	2	EACH	PULL BOX, MISC.: PULL BOX, 725.08, 32", TYPE B (TRAFFIC)
625	1	EACH	GROUND ROD
625	1	EACH	POWER SERVICE, AS PER PLAN A
631	1	EACH	SIGN LIGHTING, MISC.: DISCONNECT SWITCH, 60A
632	1	EACH	SIGNALIZATION, MISC.: CCTV IP - CAMERA SYSTEM, CISCO VSOM 4.2 COMPATIBLE, UNPRESSURIZED
632	1	EACH	SIGNALIZATION, MISC.: CCTV POLE, TYPE A (70 FT.), WITH LOWERING DEVICE
632	1	EACH	SIGNALIZATION, MISC.: DEVICE WORK PAD, TYPE C
633	1	EACH	CONTROLLER ITEM, MISC.: FIELD EQUIPMENT CABINET, ITS CABINET

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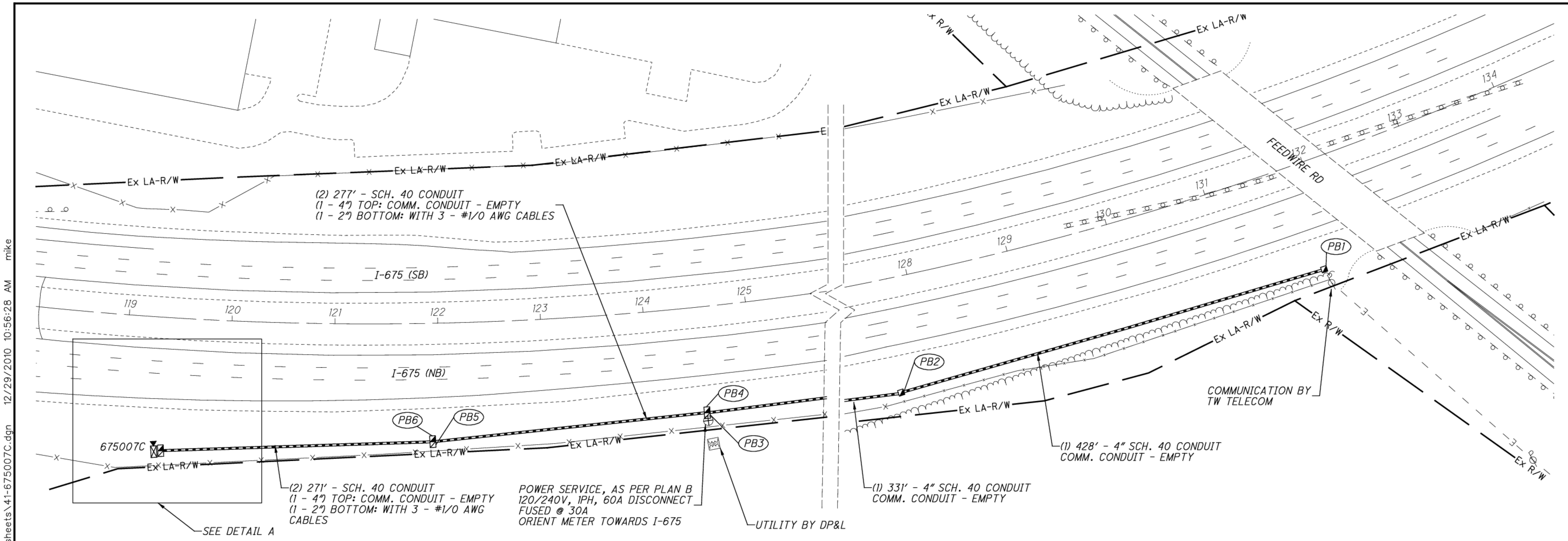
0 25 50 100 HORIZONTAL SCALE IN FEET

CALCULATED RTM CHECKED MJH

SITE PLAN #40 - MOT-675-4.76
I-675 AND SR-48

VAR-Dayton Springfield Freeway Management System



SUB-SUMMARY			
ITEM	TOTAL	UNIT	DESCRIPTION
625	1860	FT	NO. 1/0 AWG 5000 VOLT DISTRIBUTION CABLE
625	550	FT	CONDUIT, 2", 725.05, AS PER PLAN
625	1310	FT	CONDUIT, 4", 725.05, AS PER PLAN
625	1310	FT	TRENCH, 24" DEEP
625	3	EACH	PULL BOX, 725.08, 18", AS PER PLAN, TYPE A (ELECTRIC)
625	5	EACH	PULL BOX, MISC.: PULL BOX, 725.08, 32", TYPE B (TRAFFIC)
625	1	EACH	GROUND ROD
625	1	EACH	POWER SERVICE, AS PER PLAN B
631	1	EACH	SIGN LIGHTING, MISC.: DISCONNECT SWITCH, 60A
632	1	EACH	SIGNALIZATION, MISC.: CCTV IP - CAMERA SYSTEM, CISCO VSOM 4.2 COMPATIBLE, UNPRESSURIZED
632	1	EACH	SIGNALIZATION, MISC.: CCTV POLE, TYPE A (70 FT.), WITH LOWERING DEVICE
632	1	EACH	SIGNALIZATION, MISC.: DEVICE WORK PAD, TYPE C
633	1	EACH	CONTROLLER ITEM, MISC.: FIELD EQUIPMENT CABINET, ITS CABINET

PB1 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 131+86.0, 105.5' RT.

PB2 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 127+71.5, 114.5' RT.

PB3 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 124+52.0, 103.0' RT.

PB4 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 124+52.0, 103.0' RT.

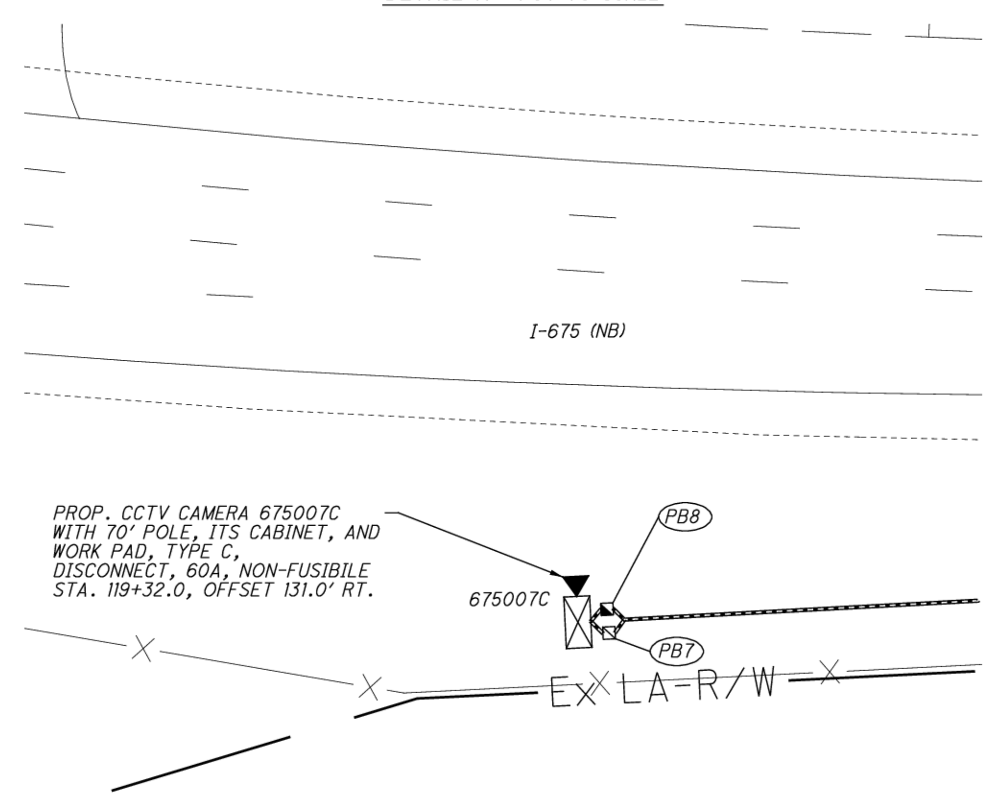
PB5 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 121+92.5, 115.0' RT.

PB6 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 121+92.5, 115.0' RT.

PB7 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 119+38.5, 130.0' RT.

PB8 - PROP. PULL BOX, 725.08: 18", TYPE B, STA. 119+38.5, 130.0' RT.

DETAIL A - NOT TO SCALE



REFER TO SHEETS 7-8 FOR PULL BOX AND CONDUIT DETAILS

REFER TO SHEETS 9-10 FOR WORK PAD DETAILS

REFER TO SHEETS 11-15 FOR ELECTRICAL DETAILS

REFER TO SHEET 16 FOR COMMUNICATION SERVICE DETAILS

REFER TO SHEETS 18-19 FOR TYPICAL CCTV CAMERA POLE DETAILS

REFER TO SHEET 20 FOR POLE ORIENTATION CHART

REFER TO SHEET 114 FOR COMMUNICATIONS PLAN OVERVIEW

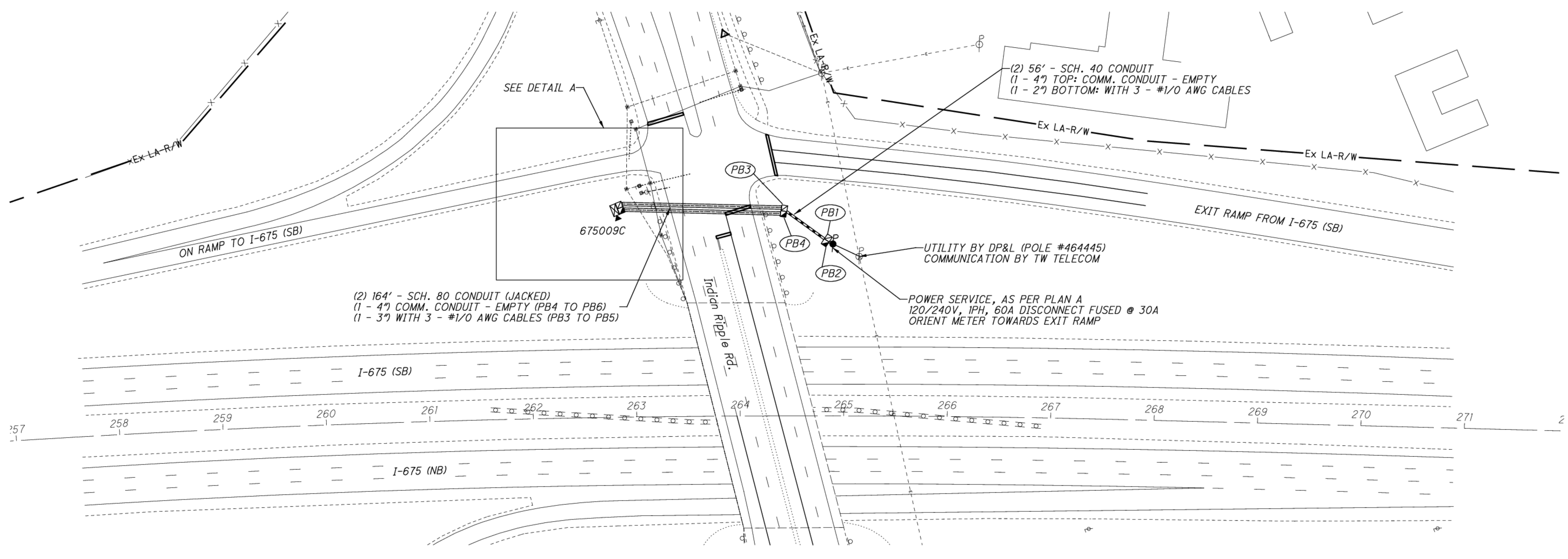
REFER TO SHEET 115 FOR FIELD CABINET LAYOUT

0 25 50 100
HORIZONTAL SCALE IN FEET

CALCULATED RTM
CHECKED MJH

SITE PLAN #41 - GRE-675-7.79
I-675, EAST OF WILMINGTON PIKE

VAR-Dayton Springfield Freeway Management System



SUB-SUMMARY			
ITEM	TOTAL	UNIT	DESCRIPTION
625	880	FT	NO. 1/0 AWG 5000 VOLT DISTRIBUTION CABLE
625	60	FT	CONDUIT, 2", 725.05, AS PER PLAN
625	60	FT	CONDUIT, 4", 725.05, AS PER PLAN
625	160	FT	CONDUIT JACKED OR DRILLED, 3", AS PER PLAN
625	160	FT	CONDUIT JACKED OR DRILLED, 4", AS PER PLAN
625	60	FT	TRENCH, 24" DEEP
625	3	EACH	PULL BOX, 725.08, 18", AS PER PLAN, TYPE A (ELECTRIC)
625	3	EACH	PULL BOX, MISC.: PULL BOX, 725.08, 32", TYPE B (TRAFFIC)
625	1	EACH	GROUND ROD
625	1	EACH	POWER SERVICE, AS PER PLAN A
631	1	EACH	SIGN LIGHTING, MISC.: DISCONNECT SWITCH, 60A
632	1	EACH	SIGNALIZATION, MISC.: CCTV IP - CAMERA SYSTEM, CISCO VSOM 4.2 COMPATIBLE, UNPRESSURIZED
632	1	EACH	SIGNALIZATION, MISC.: CCTV POLE, TYPE A (70 FT.), WITH LOWERING DEVICE
632	1	EACH	SIGNALIZATION, MISC.: DEVICE WORK PAD, TYPE C
633	1	EACH	CONTROLLER ITEM, MISC.: FIELD EQUIPMENT CABINET, ITS CABINET

PB1 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 264+89.5, 162.5' LT.

PB2 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 264+89.5, 162.5' LT.

PB3 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 264+47.5, 191.5' LT.

PB4 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 264+47.5, 191.5' LT.

PB5 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 262+92.5, 195.5' LT.

PB6 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 262+92.5, 195.5' LT.

REFER TO SHEETS 7-8 FOR PULL BOX AND CONDUIT DETAILS

REFER TO SHEETS 9-10 FOR WORK PAD DETAILS

REFER TO SHEETS 11-15 FOR ELECTRICAL DETAILS

REFER TO SHEET 16 FOR COMMUNICATION SERVICE DETAILS

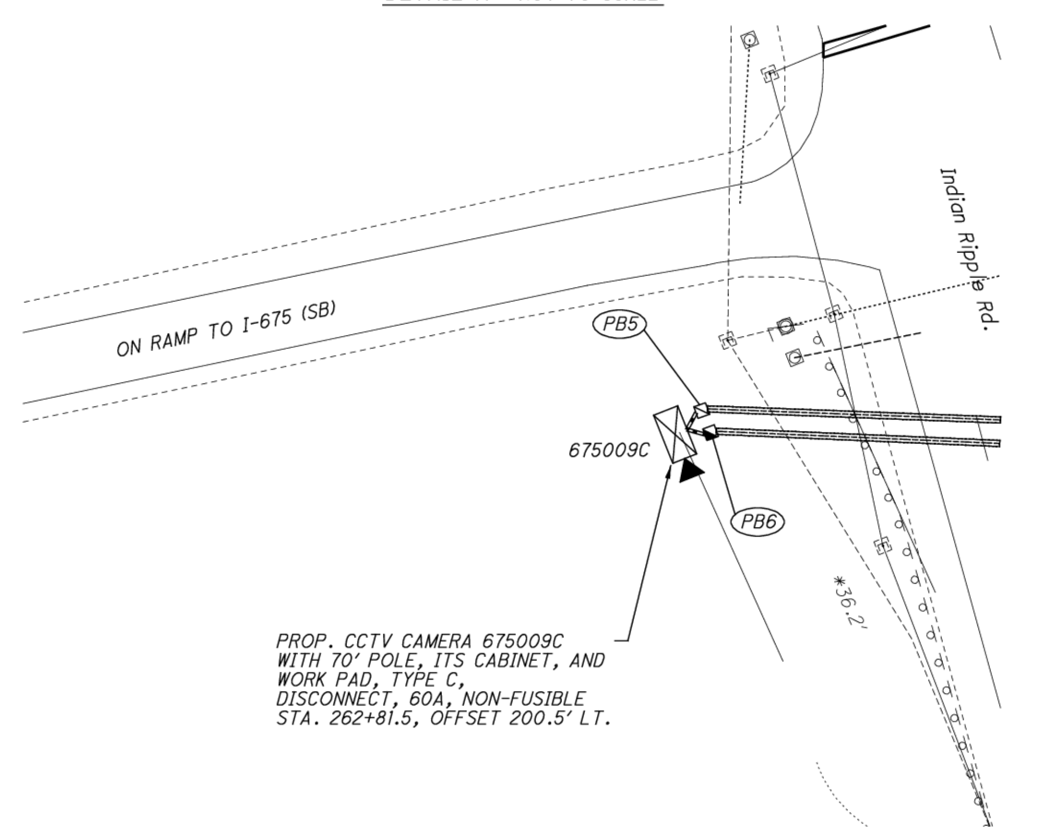
REFER TO SHEETS 18-19 FOR TYPICAL CCTV CAMERA POLE DETAILS

REFER TO SHEET 20 FOR POLE ORIENTATION CHART

REFER TO SHEET 114 FOR COMMUNICATIONS PLAN OVERVIEW

REFER TO SHEET 115 FOR FIELD CABINET LAYOUT

DETAIL A - NOT TO SCALE



* PROPOSED OFFSET BETWEEN DEVICE AND FRONT OF GUARDRAIL.

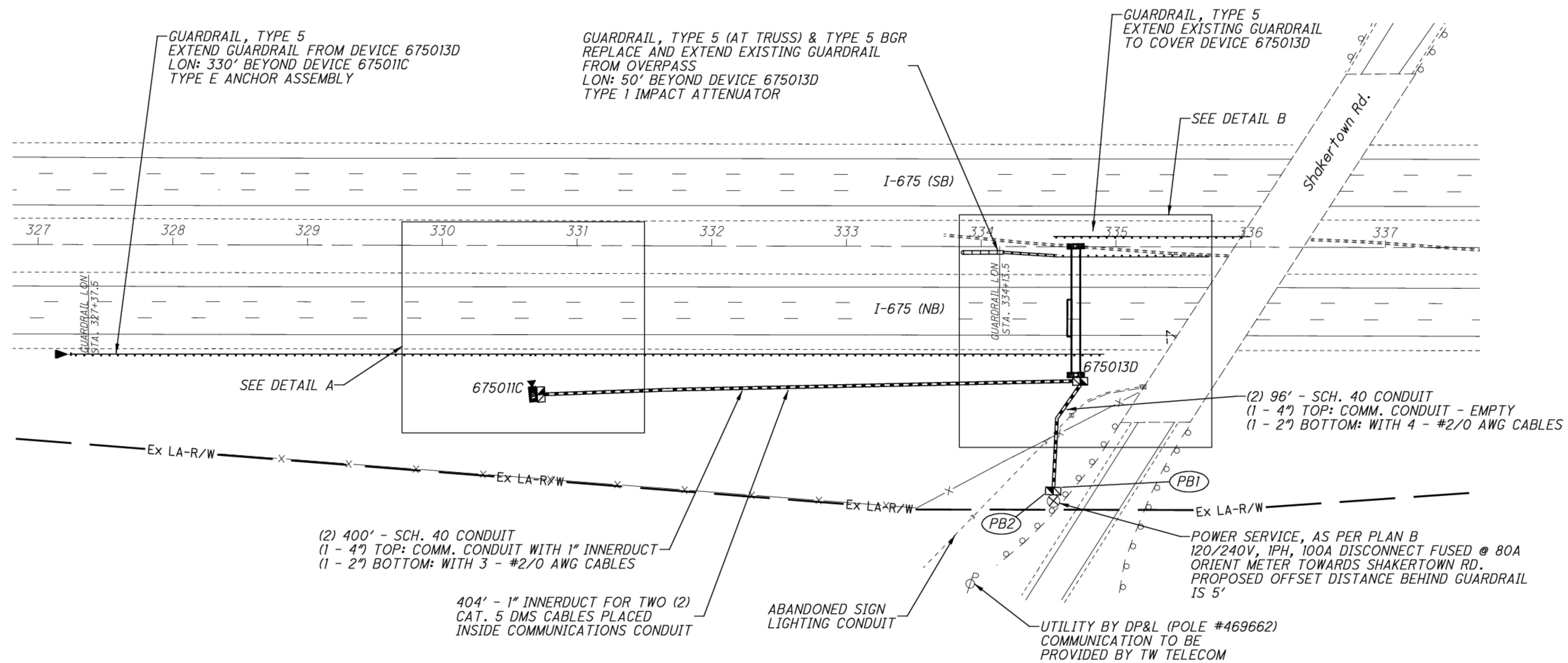
0 25 50 100
HORIZONTAL SCALE IN FEET

CALCULATED RTM
CHECKED MJH

SITE PLAN #42 - GRE-675-10.54
I-675 AND INDIAN RIPPLE RD

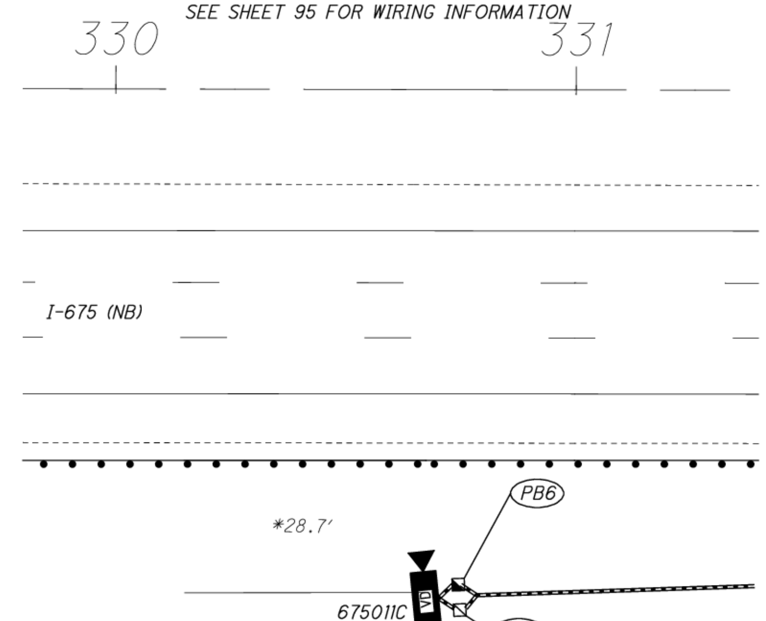
VAR-Dayton Springfield Freeway Management System

PB1 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 334+54.0, 181.5' RT.
PB2 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 334+54.0, 181.5' RT.
PB3 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 334+61.0, 102.5' RT.
PB4 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 334+61.0, 102.5' RT.
PB5 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 330+74.5, 110.5' RT.
PB6 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 330+74.5, 110.5' RT.



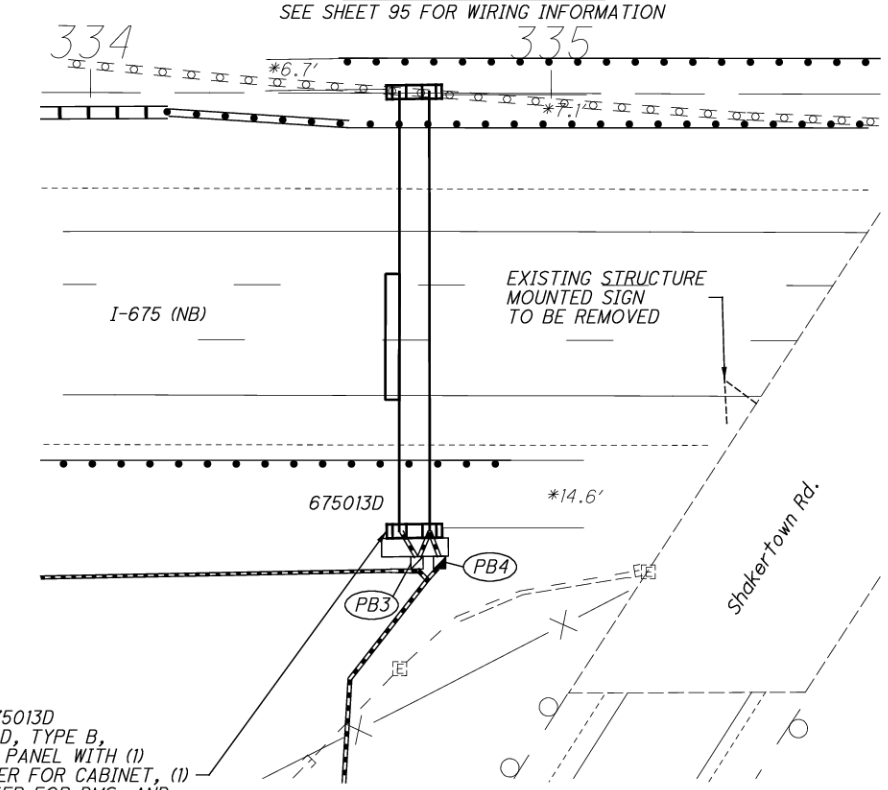
REFER TO SHEETS 7-8 FOR PULL BOX AND CONDUIT DETAILS
REFER TO SHEETS 9-10 FOR WORK PAD DETAILS
REFER TO SHEETS 11-15 FOR ELECTRICAL DETAILS
REFER TO SHEET 16 FOR COMMUNICATION SERVICE DETAILS
REFER TO SHEETS 18-19 FOR TYPICAL CCTV CAMERA POLE DETAILS
REFER TO SHEET 20 FOR POLE ORIENTATION CHART
REFER TO SHEET 21 FOR TYPICAL DMS DETAILS
REFER TO SHEET 25 FOR TYPICAL DMS TRUSS FOUNDATION DETAILS
REFER TO SHEETS 28-29 FOR TYPICAL DMS TRUSS DETAILS
REFER TO SHEET 114 FOR COMMUNICATIONS PLAN OVERVIEW
REFER TO SHEET 120 FOR FIELD CABINET LAYOUT

DETAIL A - NOT TO SCALE
SEE SHEET 95 FOR WIRING INFORMATION



PROP. CCTV CAMERA 675011C
WITH 70' POLE, ITS CABINET,
VEHICLE DETECTION UNIT,
AND WORK PAD, TYPE C,
STA. 330+67.5, OFFSET 110.5' RT.

DETAIL B - NOT TO SCALE
SEE SHEET 95 FOR WIRING INFORMATION



PROP. DMS 675013D
WITH WORK PAD, TYPE B,
DISTRIBUTION PANEL WITH (1)
30A-1P BREAKER FOR CABINET, (1)
60A-2P BREAKER FOR DMS, AND
DISCONNECT, 100A, NON-FUSIBLE
STA. 334+70.5, OFFSET 95.0' RT.

* PROPOSED OFFSET BETWEEN DEVICE AND FRONT OF GUARDRAIL.

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0 25 50 100
HORIZONTAL SCALE IN FEET

CALCULATED RTM
CHECKED MJH

SITE PLAN #43 - GRE-675-11.41
I-675 AND SHAKERTOWN RD

VAR-Dayton Springfield Freeway Management System

SUB-SUMMARY			
ITEM	TOTAL	UNIT	DESCRIPTION
202	198	FT	GUARDRAIL REMOVED
202	1	EACH	ANCHOR ASSEMBLY REMOVED, AS PER PLAN
606	1029	FT	GUARDRAIL, TYPE 5
606	41	FT	GUARDRAIL, BARRIER DESIGN, TYPE 5
606	1	EACH	ANCHOR ASSEMBLY, TYPE E
606	1	EACH	ANCHOR ASSEMBLY, TYPE T
606	1	EACH	IMPACT ATTENUATOR, TYPE 1 (BIDIRECTIONAL)
625	2240	FT	NO. 2/0 AWG 5000 VOLT DISTRIBUTION CABLE
625	500	FT	CONDUIT, 2", 725.05, AS PER PLAN
625	500	FT	CONDUIT, 4", 725.05, AS PER PLAN
625	500	FT	TRENCH, 24" DEEP
625	3	EACH	PULL BOX, 725.08, 18", AS PER PLAN, TYPE A (ELECTRIC)
625	3	EACH	PULL BOX, MISC.: PULL BOX, 725.08, 32", TYPE B (TRAFFIC)
625	2	EACH	GROUND ROD
625	1	EACH	POWER SERVICE, AS PER PLAN B
630	1	EACH	OVERHEAD SIGN SUPPORT, DMS TRUSS, 150', AS PER PLAN
630	2	EACH	OVERHEAD SIGN SUPPORT FOUNDATION, DMS TRUSS
630	3	EACH	SIGN ATTACHMENT ASSEMBLY
630	160	SQ FT	SIGN, OVERHEAD EXTRUSHEET, AS PER PLAN
630	1	EACH	REMOVAL OF STRUCTURE MOUNTED SIGN AND DISPOSAL, AS PER PLAN
630	1	EACH	REMOVAL OF OVERHEAD SIGN SUPPORT AND DISPOSAL, TYPE TC-18.26
631	1	EACH	SIGN LIGHTING, MISC.: DISCONNECT SWITCH, 60A
631	1	EACH	SIGN LIGHTING, MISC.: DYNAMIC MESSAGE SIGN
632	410	FT	INTERCONNECT CABLE, MISC.: INNERDUCT, 1"
632	1	EACH	CONDUIT RISER, 1" DIAMETER
632	1	EACH	SIGNALIZATION, MISC.: CCTV IP - CAMERA SYSTEM, CISCO VSOM 4.2 COMPATIBLE, UNPRESSURIZED
632	1	EACH	SIGNALIZATION, MISC.: CCTV POLE, TYPE A (70 FT.), WITH LOWERING DEVICE
632	1	EACH	SIGNALIZATION, MISC.: VEHICLE DETECTION UNIT
632	1	EACH	SIGNALIZATION, MISC.: DEVICE WORK PAD, TYPE B
632	1	EACH	SIGNALIZATION, MISC.: DEVICE WORK PAD, TYPE C
633	1	EACH	CONTROLLER ITEM, MISC.: FIELD EQUIPMENT CABINET, ITS CABINET

PLAN CLARIFICATIONS

SITE #43: I-675 & SHAKERTOWN RD.

CONTRACTOR:
CCTV CAMERA: CONSTRUCT A CCTV CAMERA SITE PER SITE PLAN, SHEETS 18 AND 19, SPECIAL PROVISIONS SECTIONS 3.22, 3.24/25, AND ANY OTHER PLANS OR SPECIAL PROVISIONS SECTIONS THAT MAY APPLY. CCTV CAMERA POLE SHALL BE LOCATED AT STA. 330+67.5, OFFSET 110.5' RT AND BE ORIENTED PER ORIENTATION CHART ON SHEET 20. A NEW ITS CABINET SHALL BE CONSTRUCTED ON THE CONCRETE CAMERA POLE. THE CCTV AND DMS CONTROLLERS SHALL BE LOCATED IN THE ITS CABINET. THE ITS CABINET SHALL BE CONNECTED TO 30 AMP POWER SERVICE FROM DMS POWER PANEL.

DMS: CONSTRUCT DMS AND DMS SUPPORT STRUCTURE INCLUDING FOUNDATION. PROVIDE 100 AMP POWER SERVICE UNDERGROUND FROM SERVICE POLE TO DMS. TWO (2) CAT. 5 CABLES SHALL PROVIDE COMM. SERVICE FROM NETWORK SWITCH IN NEW ITS CABINET TO MAIN DMS CONTROLLER IN THE SIGN AND THEN BACK TO AUXILIARY CONTROL PANEL IN THE ITS CABINET ON CAMERA CONCRETE POLE VIA 1" INNERDUCT IN COMM. CONDUITS. SEE SITE PLANS, SPECIAL PROVISIONS SECTIONS 3.10, 3.16, AND ANY OTHER PLANS OR SPECIAL PROVISIONS THAT MAY BE APPLICABLE.

VEHICLE DETECTION UNIT: INSTALL A VEHICLE DETECTION UNIT ON THE CCTV POLE. REFER TO SITE PLANS, SPECIAL PROVISION SECTION 3.27, AND ANY OTHER PLANS OR SPECIAL PROVISIONS THAT MAY APPLY. ORIENT DEVICE ON CCTV POLE AS DIRECTED BY THE ENGINEER.

POWER: CONSTRUCT POWER SERVICE, AS PER PLAN B, FOR THIS SITE. SEE SHEETS 11-16, 31, AND OTHER NECESSARY SHEETS FOR ELECTRICAL DETAILS. A LOCAL DISCONNECT SHALL BE PROVIDED ON THE DMS ENDRFAME, SEE SITE PLANS, SPECIAL PROVISIONS SECTION 3.13, AND ANY OTHER PLANS OR SPECIAL PROVISIONS THAT MAY APPLY.

COORDINATE COMMUNICATION CONSTRUCTION WITH TW TELECOM.

LOCATIONS OF PULL BOXES IN THE PLAN ARE APPROXIMATE AND WILL BE DETERMINED BY THE ENGINEER.

TEST EQUIPMENT AS PER SPECIAL PROVISIONS FOR LOCAL OPERATION. SEE SPECIAL PROVISIONS SECTIONS 2.23 - 2.27.

ODOT:
FURNISH AND INSTALL NETWORK SWITCH, TERMINAL SERVER, AND SMART UPS FOR THE ITS CABINET.

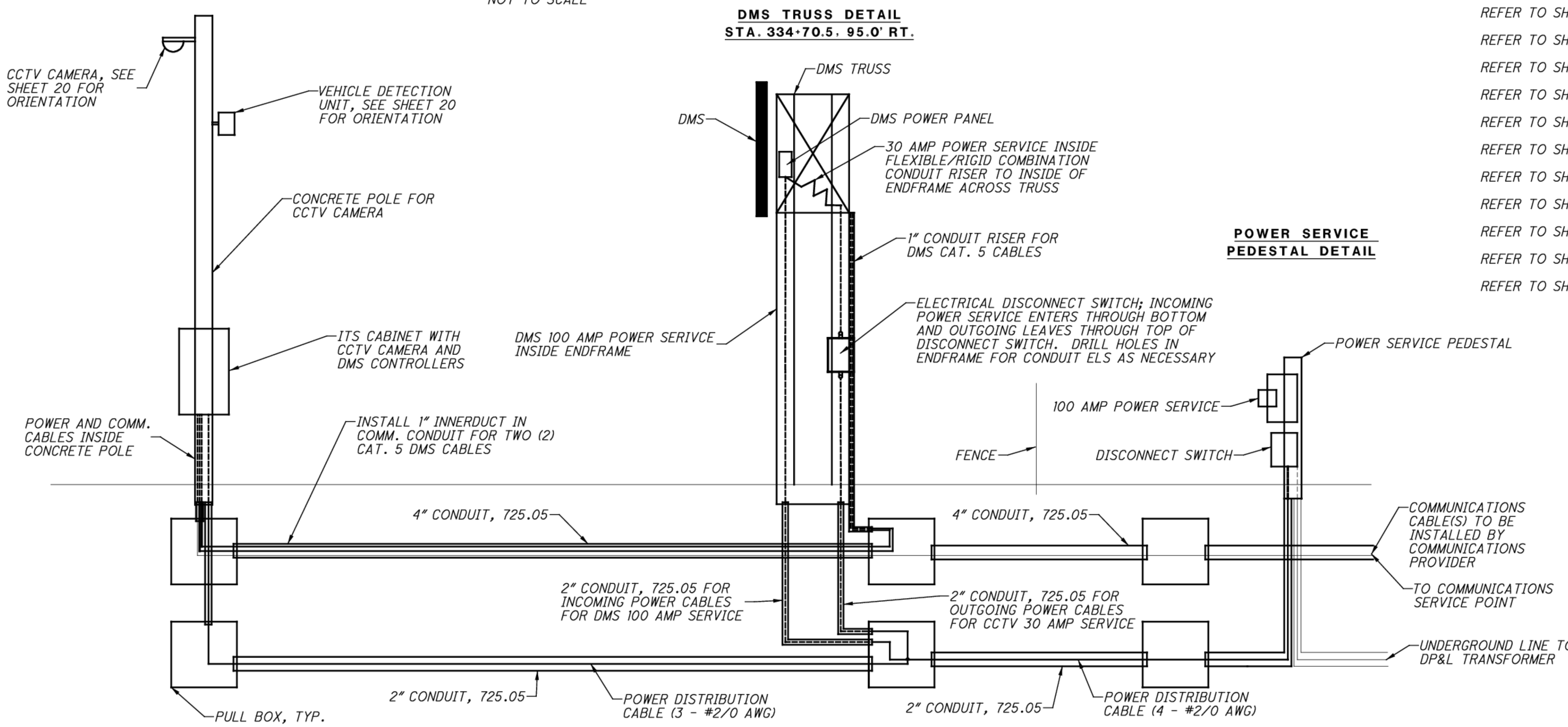
TEST NETWORK CONNECTION FOR PROPER OPERATION AS PER SPECIAL PROVISIONS.

DP&L:
CONNECT POWER FROM OVERHEAD TRANSFORMER TO GROUND MOUNTED POWER SERVICE PEDESTAL INSTALLED BY CONTRACTOR (POWER SERVICE AS PER PLAN B).

TW TELECOM:
FURNISH AND INSTALL COMMUNICATION SERVICE CABLE TO ITS CABINET FROM TW TELECOM SERVICE POINT.

SITE #43 WIRING DETAIL

NOT TO SCALE



REFER TO SHEETS 7-8 FOR PULL BOX AND CONDUIT DETAILS
REFER TO SHEETS 9-10 FOR WORK PAD DETAILS
REFER TO SHEETS 11-15 FOR ELECTRICAL DETAILS
REFER TO SHEET 16 FOR COMMUNICATION SERVICE DETAILS
REFER TO SHEETS 18-19 FOR TYPICAL CCTV CAMERA POLE DETAILS
REFER TO SHEET 20 FOR POLE ORIENTATION CHART
REFER TO SHEET 21 FOR TYPICAL DMS DETAILS
REFER TO SHEET 25 FOR TYPICAL DMS TRUSS FOUNDATION DETAILS
REFER TO SHEETS 28-29 FOR TYPICAL DMS TRUSS DETAILS
REFER TO SHEET 114 FOR COMMUNICATIONS PLAN OVERVIEW
REFER TO SHEET 120 FOR FIELD CABINET LAYOUT

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED RTM
CHECKED MJH

SITE #43 - GRE-675-11.41 - DETAIL
I-675 AND SHAKERTOWN RD

VAR-Dayton Springfield Freeway Management System

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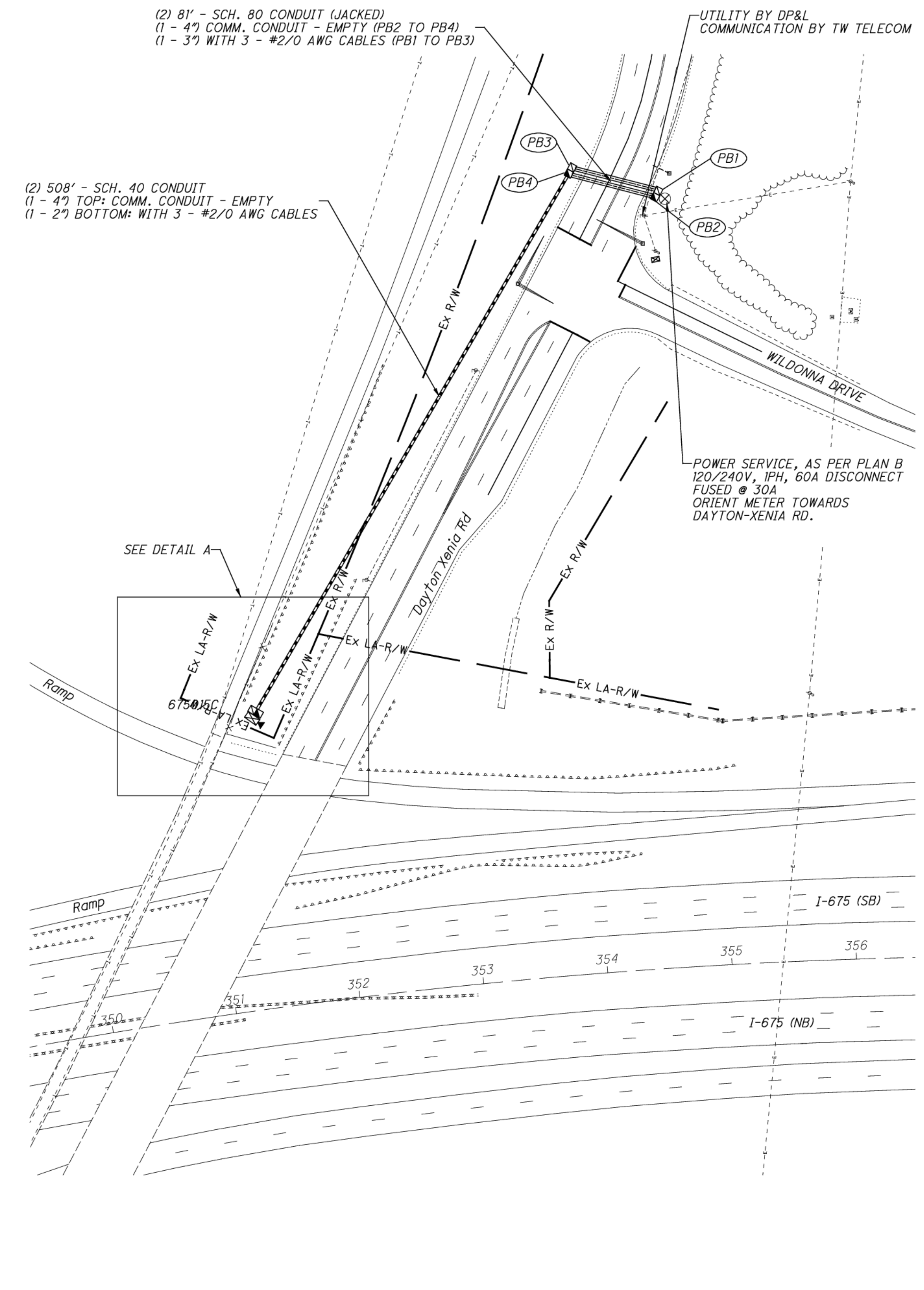


SUB-SUMMARY			
ITEM	TOTAL	UNIT	DESCRIPTION
606	25	FT	GUARDRAIL, MISC.: GUARDRAIL REMOVED AND REPLACED
625	1980	FT	NO. 2/0 AWG 5000 VOLT DISTRIBUTION CABLE
625	510	FT	CONDUIT, 2", 725.05, AS PER PLAN
625	510	FT	CONDUIT, 4", 725.05, AS PER PLAN
625	90	FT	CONDUIT JACKED OR DRILLED, 3", AS PER PLAN
625	90	FT	CONDUIT JACKED OR DRILLED, 4", AS PER PLAN
625	510	FT	TRENCH, 24" DEEP
625	3	EACH	PULL BOX, 725.08, 18", AS PER PLAN, TYPE A (ELECTRIC)
625	3	EACH	PULL BOX, MISC.: PULL BOX, 725.08, 32", TYPE B (TRAFFIC)
625	1	EACH	GROUND ROD
625	1	EACH	POWER SERVICE, AS PER PLAN B
631	1	EACH	SIGN LIGHTING, MISC.: DISCONNECT SWITCH, 60A
632	1	EACH	SIGNALIZATION, MISC.: CCTV IP - CAMERA SYSTEM, CISCO VSOM 4.2 COMPATIBLE, UNPRESSURIZED
632	1	EACH	SIGNALIZATION, MISC.: CCTV POLE, TYPE A (70 FT.), WITH LOWERING DEVICE
632	1	EACH	SIGNALIZATION, MISC.: DEVICE WORK PAD, TYPE C
633	1	EACH	CONTROLLER ITEM, MISC.: FIELD EQUIPMENT CABINET, ITS CABINET

REFER TO SHEETS 7-8 FOR PULL BOX AND CONDUIT DETAILS

REFER TO SHEETS 9-10 FOR WORK PAD DETAILS

REFER TO SHEETS 11-15 FOR ELECTRICAL DETAILS

REFER TO SHEET 16 FOR COMMUNICATION SERVICE DETAILS

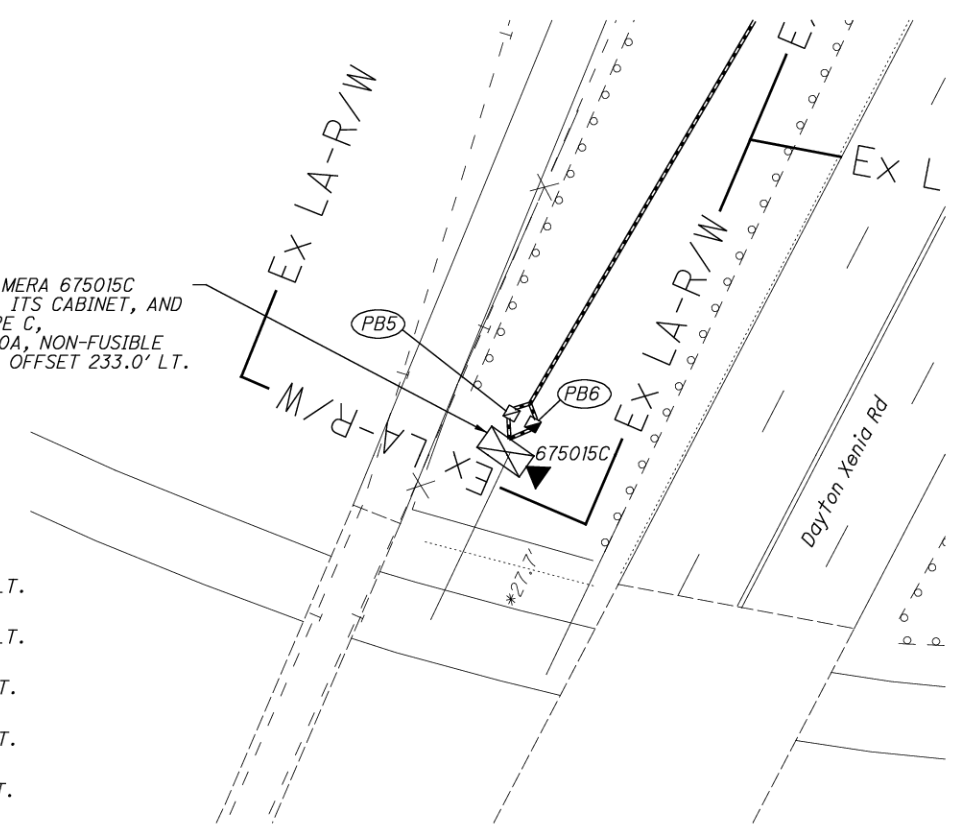
REFER TO SHEETS 18-19 FOR TYPICAL CCTV CAMERA POLE DETAILS

REFER TO SHEET 20 FOR POLE ORIENTATION CHART

REFER TO SHEET 114 FOR COMMUNICATIONS PLAN OVERVIEW

REFER TO SHEET 115 FOR FIELD CABINET LAYOUT

DETAIL A - NOT TO SCALE



- PB1 - *PROP. PULL BOX, 725.08: 18", TYPE A, STA. 354+79.0, 620.0' LT.*
- PB2 - *PROP. PULL BOX, 725.08: 32", TYPE B, STA. 354+79.0, 620.0' LT.*
- PB3 - *PROP. PULL BOX, 725.08: 18", TYPE A, STA. 354+17.5, 644.5' LT.*
- PB4 - *PROP. PULL BOX, 725.08: 32", TYPE B, STA. 354+17.5, 644.5' LT.*
- PB5 - *PROP. PULL BOX, 725.08: 18", TYPE A, STA. 351+49.0, 241.0' LT.*
- PB6 - *PROP. PULL BOX, 725.08: 32", TYPE B, STA. 351+49.0, 241.0' LT.*

* *PROPOSED OFFSET BETWEEN DEVICE AND FRONT OF GUARDRAIL.*

N

0 25 50 100
HORIZONTAL SCALE IN FEET

CALCULATED RTM
CHECKED MJH

SITE PLAN #44 - 675-13.60
I-675 AND DAYTON XENIA RD

VAR-Dayton Springfield Freeway Management System

REFER TO SHEETS 7-8 FOR PULL BOX AND CONDUIT DETAILS

REFER TO SHEETS 9-10 FOR WORK PAD DETAILS

REFER TO SHEETS 11-15 FOR ELECTRICAL DETAILS

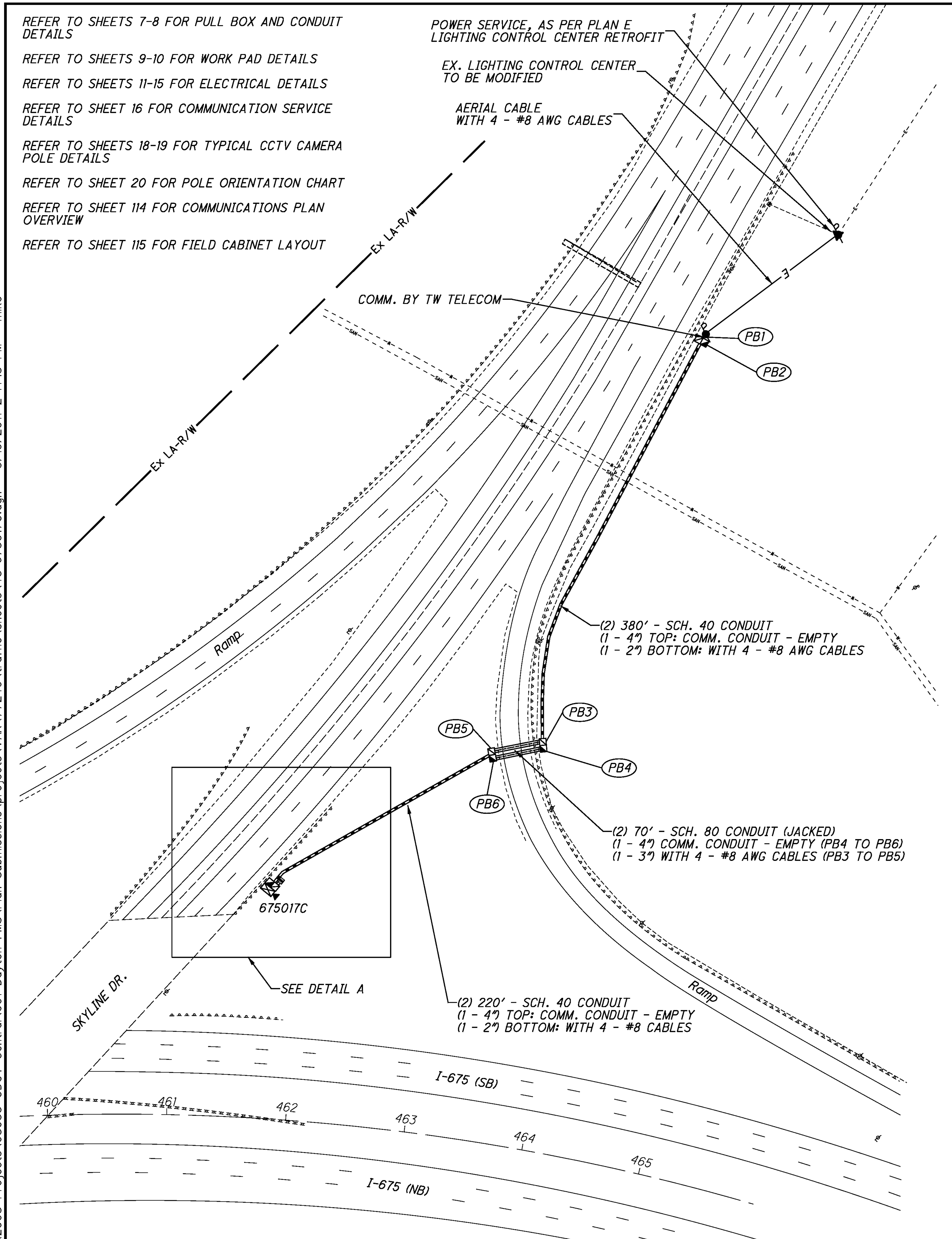
REFER TO SHEET 16 FOR COMMUNICATION SERVICE DETAILS

REFER TO SHEETS 18-19 FOR TYPICAL CCTV CAMERA POLE DETAILS

REFER TO SHEET 20 FOR POLE ORIENTATION CHART

REFER TO SHEET 114 FOR COMMUNICATIONS PLAN OVERVIEW

REFER TO SHEET 115 FOR FIELD CABINET LAYOUT



SUB-SUMMARY			
ITEM	TOTAL	UNIT	DESCRIPTION
606	25	FT	GUARDRAIL, MISC.: GUARDRAIL REMOVED AND REPLACED
625	3090	FT	DISTRIBUTION CABLE, MISC.: NO 8 AWG 5000 VOLT DISTRIBUTION CABLE
625	760	FT	DISTRIBUTION CABLE, MISC.: AERIAL CABLE WITH FOUR NO 8 AWG 5000 VOLT CABLES
625	620	FT	CONDUIT, 2", 725.05, AS PER PLAN
625	600	FT	CONDUIT, 4", 725.05, AS PER PLAN
625	70	FT	CONDUIT JACKED OR DRILLED, 3", AS PER PLAN
625	70	FT	CONDUIT JACKED OR DRILLED, 4", AS PER PLAN
625	610	FT	TRENCH, 24" DEEP
625	4	EACH	PULL BOX, 725.08, 18", AS PER PLAN, TYPE A (ELECTRIC)
625	4	EACH	PULL BOX, MISC.: PULL BOX, 725.08, 32", TYPE B (TRAFFIC)
625	1	EACH	GROUND ROD
625	1	EACH	POWER SERVICE, AS PER PLAN E (LIGHTING CONTROL CENTER MODIFIED)
632	1	EACH	WOOD POLE
632	1	EACH	SIGNALIZATION, MISC.: CCTV IP - CAMERA SYSTEM, CISCO VSOM 4.2 COMPATIBLE, UNPRESSURIZED
632	1	EACH	SIGNALIZATION, MISC.: CCTV POLE, TYPE A (70 FT.), WITH LOWERING DEVICE
632	1	EACH	SIGNALIZATION, MISC.: DEVICE WORK PAD, TYPE D (SLOPED AREA DESIGN)
632	1	EACH	SIGNALIZATION, MISC.: TRANSFORMER, GENERAL PURPOSE, 7.5KVA, NON-VENTILATED TYPE
633	1	EACH	CONTROLLER ITEM, MISC.: FIELD EQUIPMENT CABINET, ITS CABINET

PB1 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 464+21.0, 695.5' LT.

PB2 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 464+21.0, 695.5' LT.

PB3 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 463+64.0, 337.0' LT.

PB4 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 463+64.0, 337.0' LT.

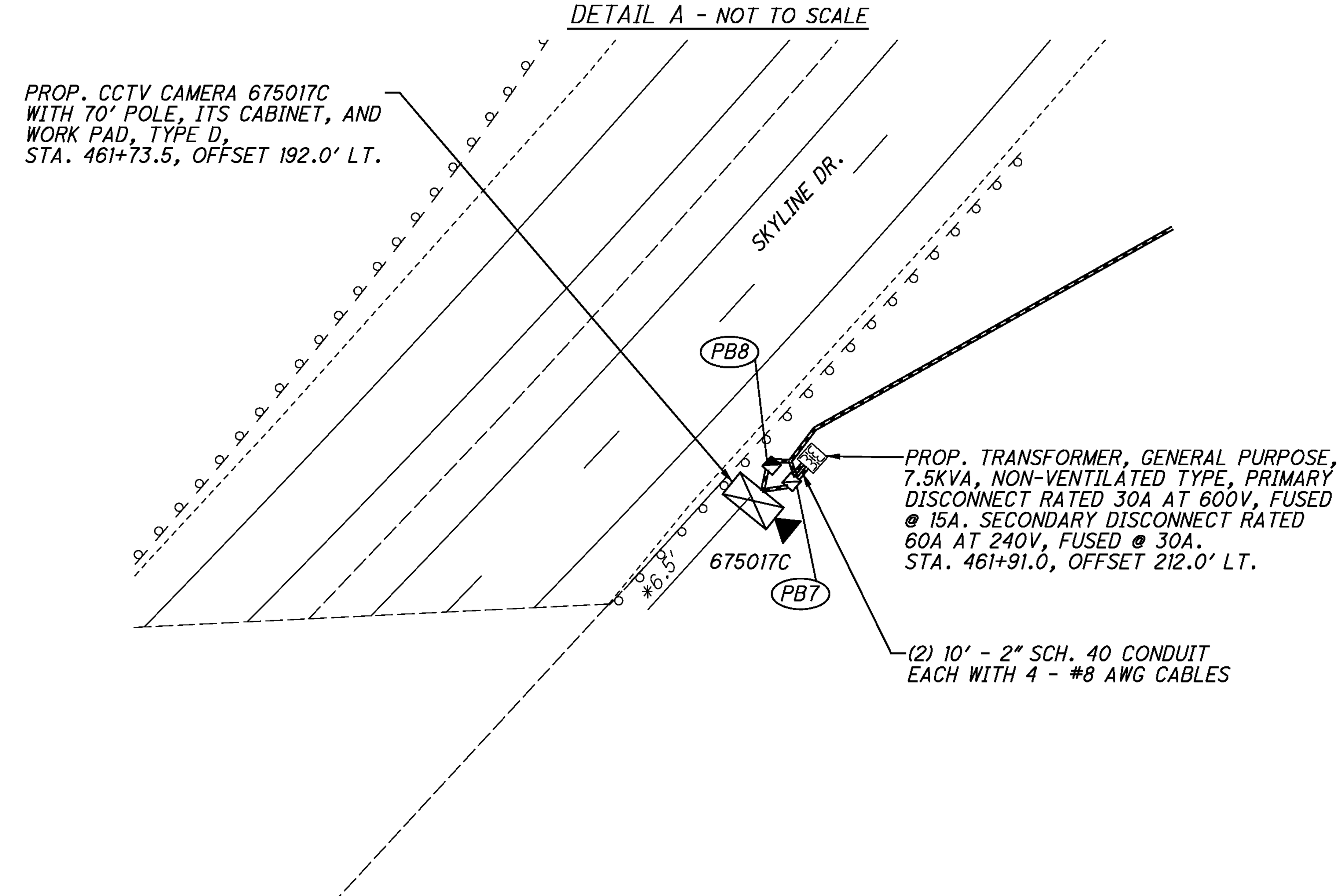
PB5 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 463+29.0, 323.5' LT.

PB6 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 463+29.0, 323.5' LT.

PB7 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 461+83.0, 200.0' LT.

PB8 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 461+83.0, 200.0' LT.

DETAIL A - NOT TO SCALE



* PROPOSED OFFSET BETWEEN DEVICE AND FRONT OF GUARDRAIL.

0 25 50 100
HORIZONTAL SCALE IN FEET

CALCULATED RTM
CHECKED MJH

SITE PLAN #45 - GRE-675-15.70
I-675 at RAMP J (COL. GLENN/SKYLINE DRIVE)

VAR-Dayton Springfield Freeway Management System

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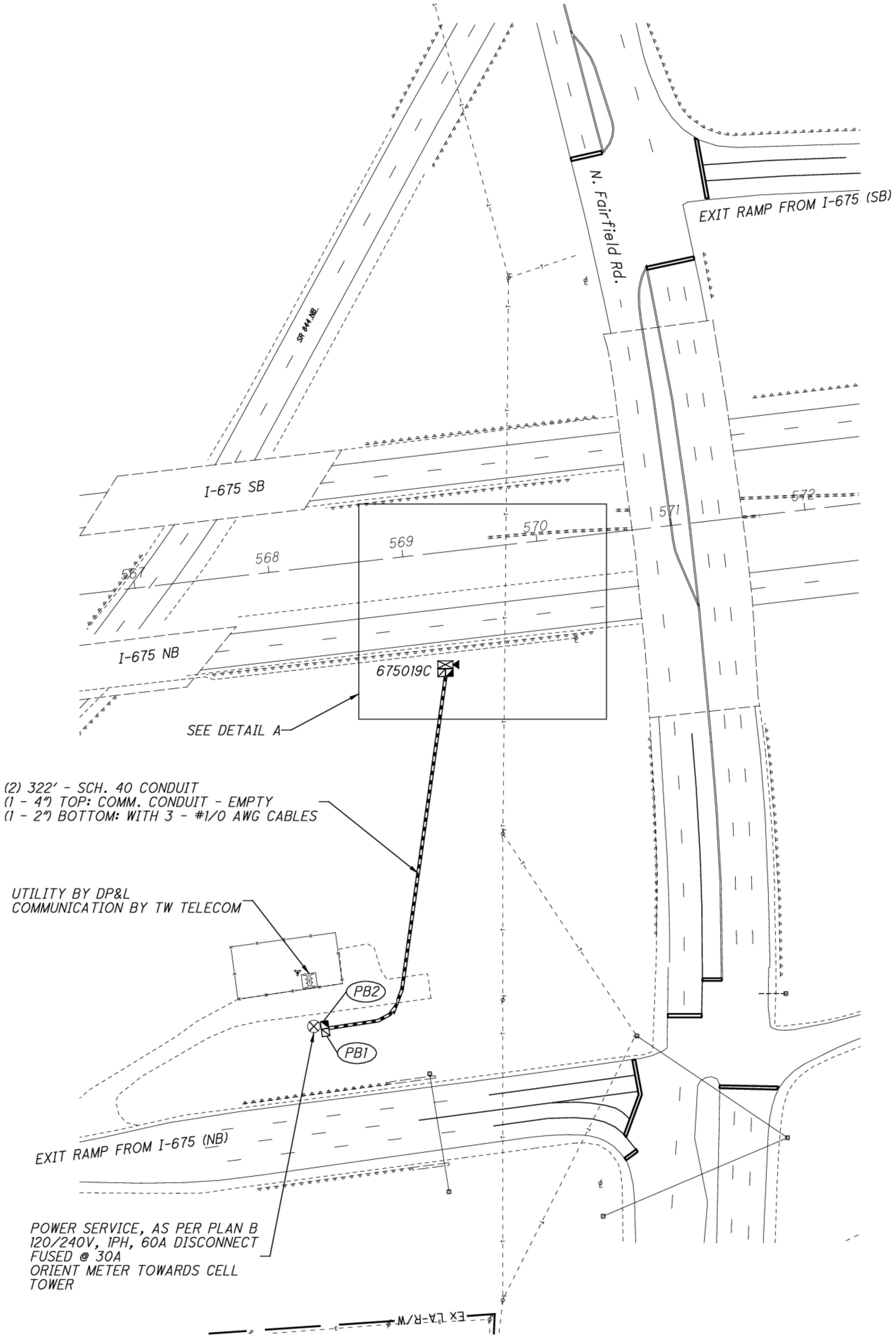
SUB-SUMMARY			
ITEM	TOTAL	UNIT	DESCRIPTION
625	1170	FT	NO. 1/0 AWG 5000 VOLT DISTRIBUTION CABLE
625	330	FT	CONDUIT, 2", 725.05, AS PER PLAN
625	330	FT	CONDUIT, 4", 725.05, AS PER PLAN
625	330	FT	TRENCH, 24" DEEP
625	2	EACH	PULL BOX, 725.08, 18", AS PER PLAN, TYPE A (ELECTRIC)
625	2	EACH	PULL BOX, MISC.: PULL BOX, 725.08, 32", TYPE B (TRAFFIC)
625	1	EACH	GROUND ROD
625	1	EACH	POWER SERVICE, AS PER PLAN B
631	1	EACH	SIGN LIGHTING, MISC.: DISCONNECT SWITCH, 60A
632	1	EACH	SIGNALIZATION, MISC.: CCTV IP - CAMERA SYSTEM, CISCO VSOM 4.2 COMPATIBLE, UNPRESSURIZED
632	1	EACH	SIGNALIZATION, MISC.: CCTV POLE, TYPE A (70 FT.), WITH LOWERING DEVICE
632	1	EACH	SIGNALIZATION, MISC.: DEVICE WORK PAD, TYPE C
633	1	EACH	CONTROLLER ITEM, MISC.: FIELD EQUIPMENT CABINET, ITS CABINET



REFER TO SHEETS 7-8 FOR PULL BOX AND CONDUIT DETAILS

REFER TO SHEETS 9-10 FOR WORK PAD DETAILS

REFER TO SHEETS 11-15 FOR ELECTRICAL DETAILS

REFER TO SHEET 16 FOR COMMUNICATION SERVICE DETAILS

REFER TO SHEETS 18-19 FOR TYPICAL CCTV CAMERA POLE DETAILS

REFER TO SHEET 20 FOR POLE ORIENTATION CHART

REFER TO SHEET 114 FOR COMMUNICATIONS PLAN OVERVIEW

REFER TO SHEET 115 FOR FIELD CABINET LAYOUT

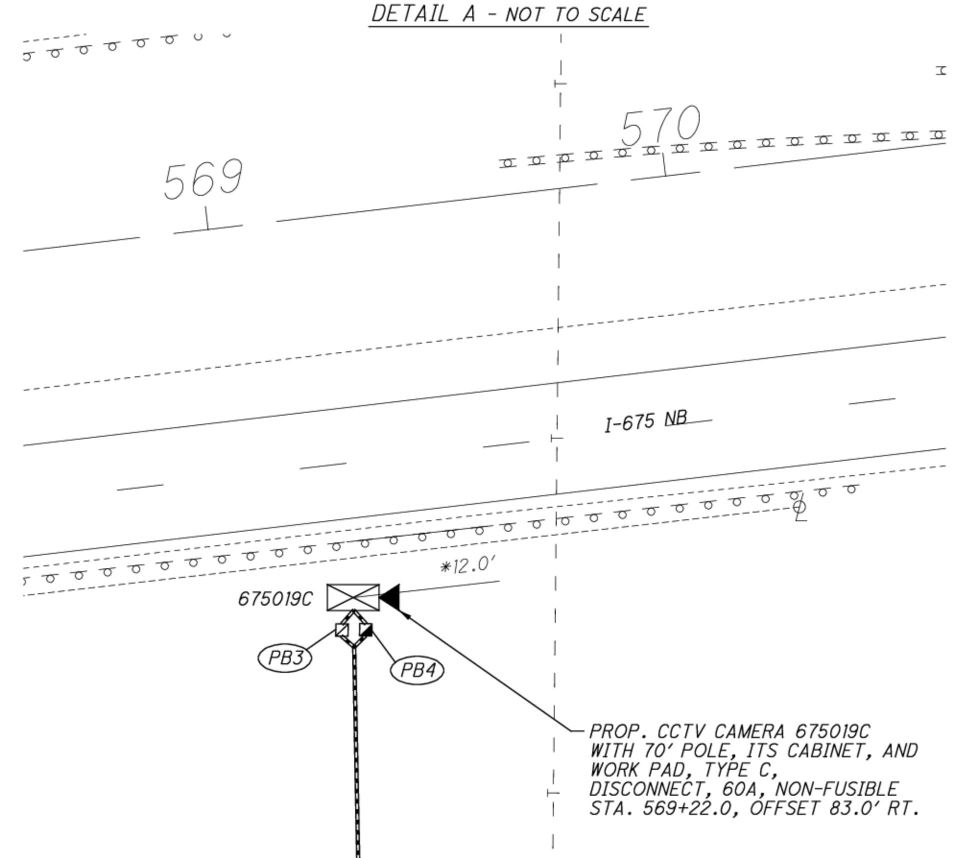
PB1 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 568+02.0, 340.5' RT.

PB2 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 568+02.0, 340.5' RT.

PB3 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 569+21.5, 90.5' RT.

PB4 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 569+21.5, 90.5' RT.

DETAIL A - NOT TO SCALE



* PROPOSED OFFSET BETWEEN DEVICE AND FRONT OF GUARDRAIL.

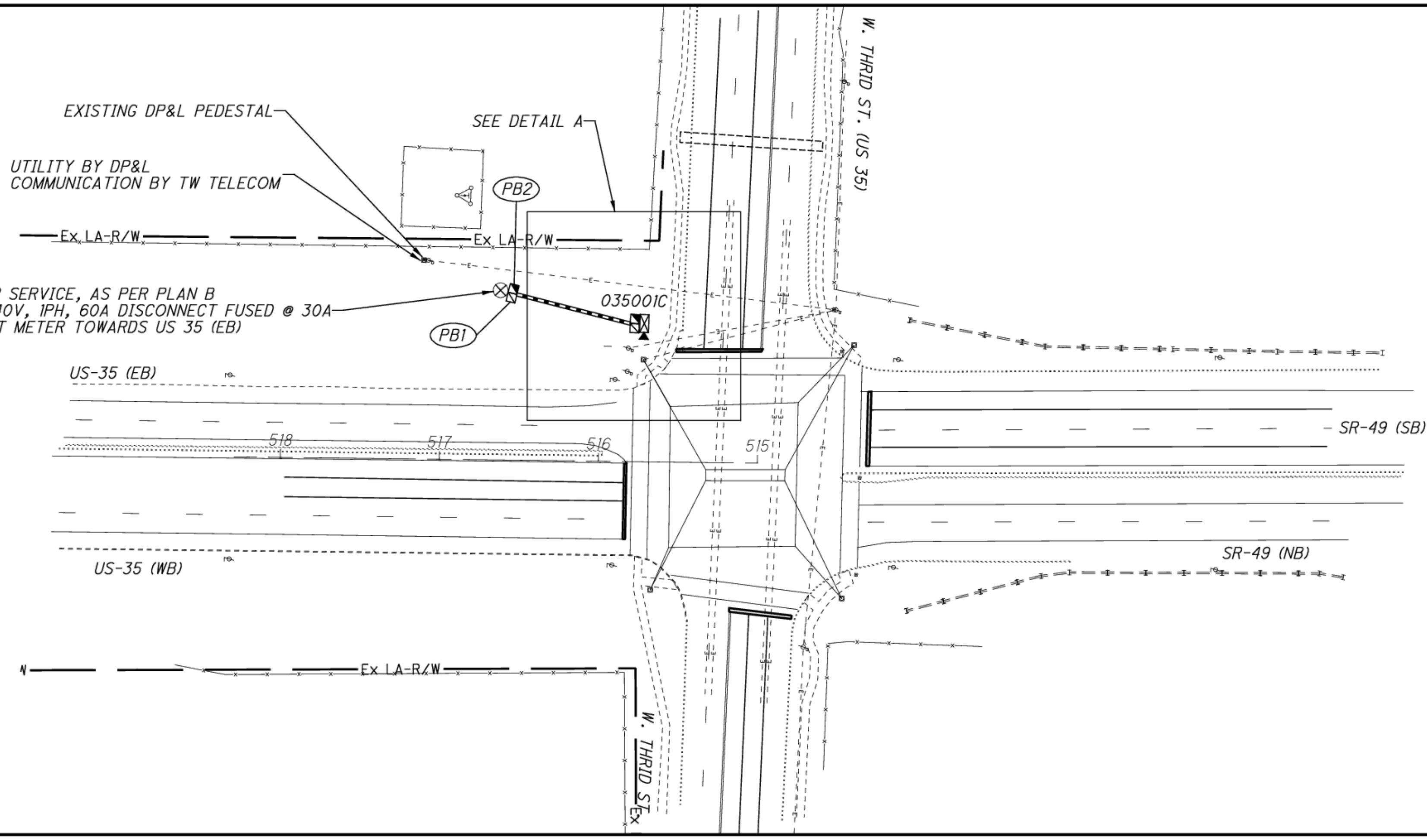
HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED RTM CHECKED MJH

SITE PLAN #46 - GRE-675-17.80
I-675 AND NORTH FAIRFIELD RD

VAR-Dayton Springfield Freeway Management System

REFER TO SHEETS 7-8 FOR PULL BOX AND CONDUIT DETAILS
REFER TO SHEETS 9-10 FOR WORK PAD DETAILS
REFER TO SHEETS 11-15 FOR ELECTRICAL DETAILS
REFER TO SHEET 16 FOR COMMUNICATION SERVICE DETAILS
REFER TO SHEETS 18-19 FOR TYPICAL CCTV CAMERA POLE DETAILS
REFER TO SHEET 20 FOR POLE ORIENTATION CHART
REFER TO SHEET 114 FOR COMMUNICATIONS PLAN OVERVIEW
REFER TO SHEET 115 FOR FIELD CABINET LAYOUT



SUB-SUMMARY			
ITEM	TOTAL	UNIT	DESCRIPTION
625	490	FT	NO. 2 AWG 5000 VOLT DISTRIBUTION CABLE
625	100	FT	CONDUIT, 2", 725.05, AS PER PLAN
625	100	FT	CONDUIT, 4", 725.05, AS PER PLAN
625	100	FT	TRENCH, 24" DEEP
625	2	EACH	PULL BOX, 725.08, 18", AS PER PLAN, TYPE A (ELECTRIC)
625	2	EACH	PULL BOX, MISC.: PULL BOX, 725.08, 32", TYPE B (TRAFFIC)
625	1	EACH	GROUND ROD
625	1	EACH	POWER SERVICE, AS PER PLAN B
632	1	EACH	SIGNALIZATION, MISC.: CCTV IP - CAMERA SYSTEM, CISCO VSOM 4.2 COMPATIBLE, UNPRESSURIZED
632	1	EACH	SIGNALIZATION, MISC.: CCTV POLE, TYPE A (70 FT.), WITH LOWERING DEVICE
632	1	EACH	SIGNALIZATION, MISC.: DEVICE WORK PAD, TYPE C
633	1	EACH	CONTROLLER ITEM, MISC.: FIELD EQUIPMENT CABINET, ITS CABINET

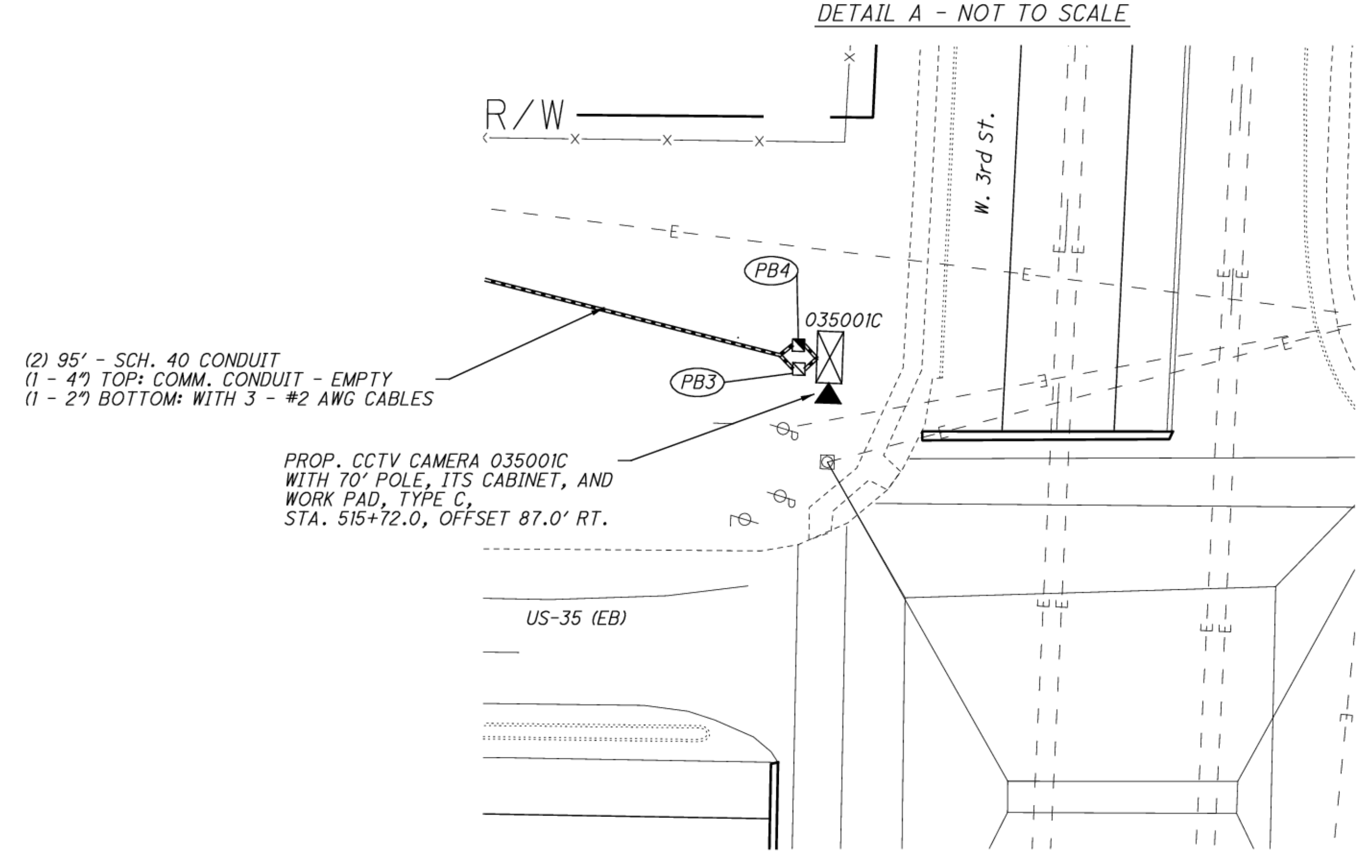
PB1 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 516+58.5, 106.5' RT.

PB2 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 516+58.5, 106.5' RT.

PB3 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 515+78.0, 87.0' RT.

PB4 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 515+78.0, 87.0' RT.

DETAIL A - NOT TO SCALE

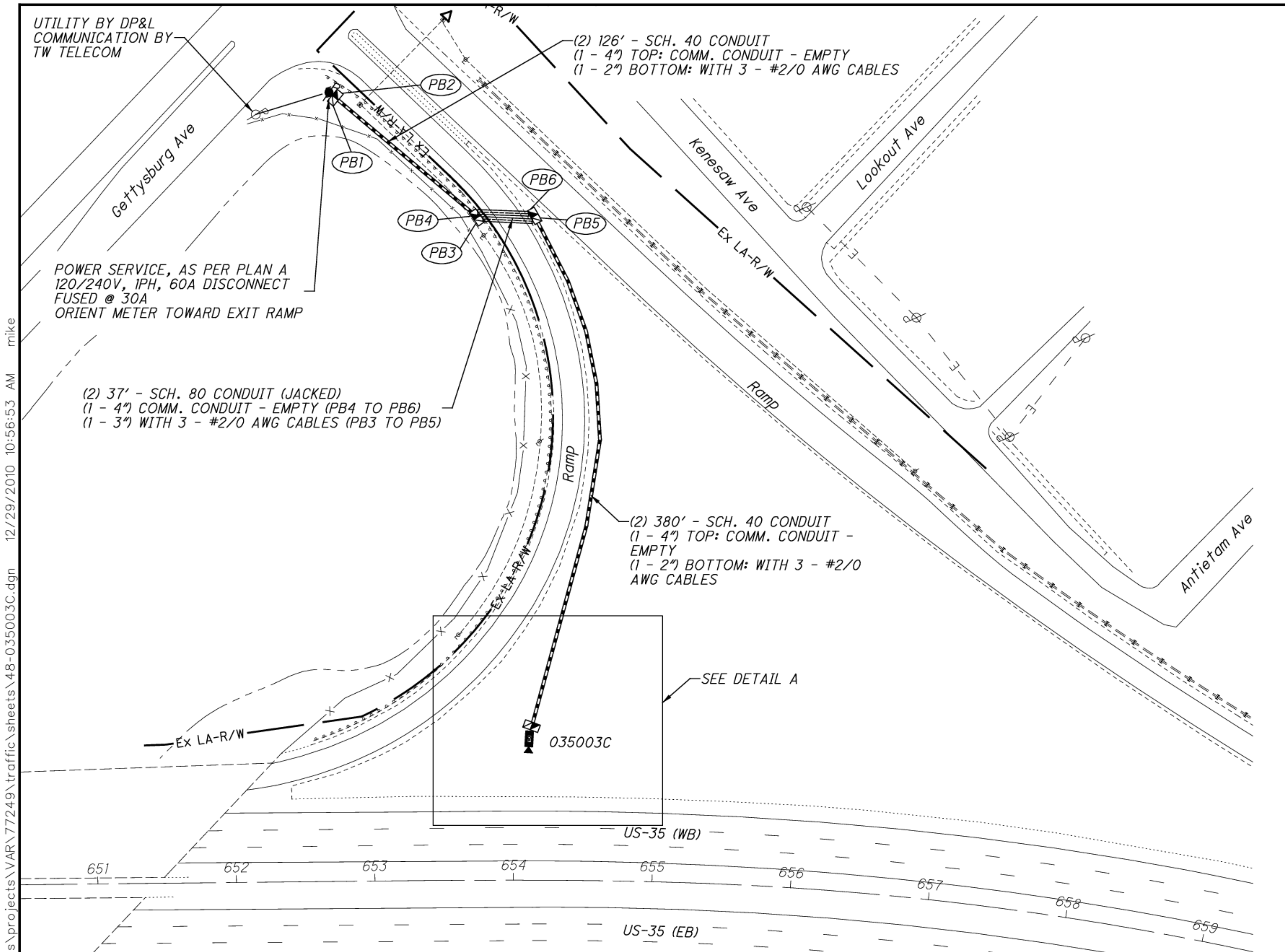


0 25 50 100
HORIZONTAL SCALE IN FEET

CALCULATED RTM
CHECKED MJH

SITE PLAN #47 - MOT-35-10.32
US-35 AND W. 3rd ST.

VAR-Dayton Springfield Freeway Management System

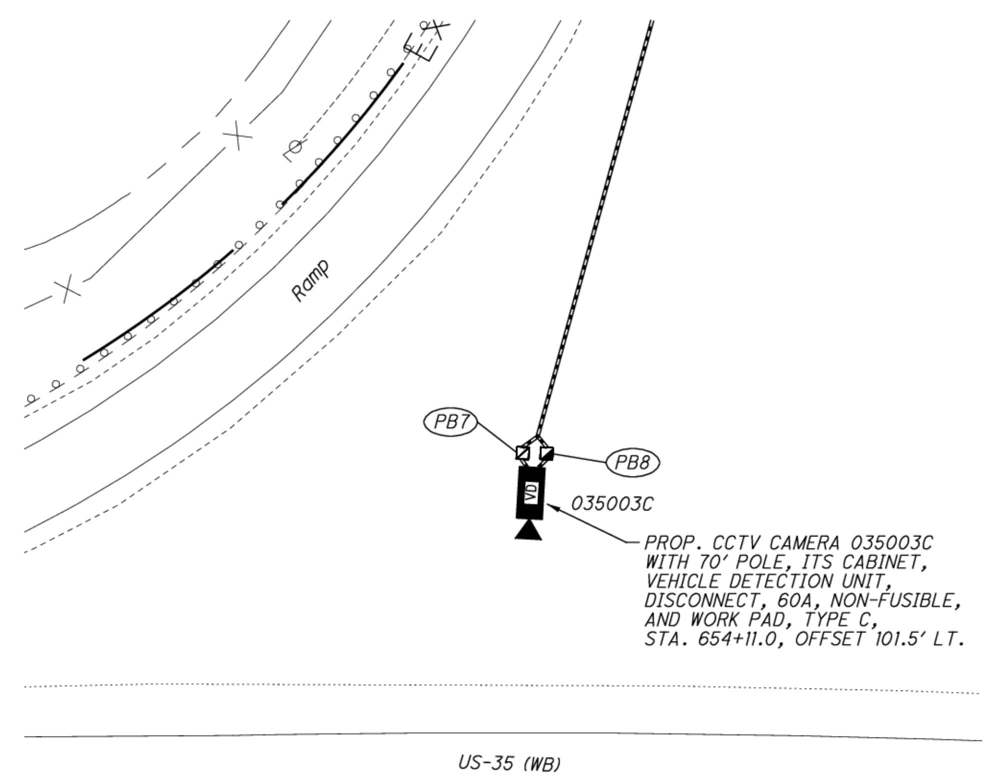


SUB-SUMMARY			
ITEM	TOTAL	UNIT	DESCRIPTION
625	1860	FT	NO. 2/0 AWG 5000 VOLT DISTRIBUTION CABLE
625	510	FT	CONDUIT, 2", 725.05, AS PER PLAN
625	510	FT	CONDUIT, 4", 725.05, AS PER PLAN
625	40	FT	CONDUIT JACKED OR DRILLED, 3", AS PER PLAN
625	40	FT	CONDUIT JACKED OR DRILLED, 4", AS PER PLAN
625	510	FT	TRENCH, 24" DEEP
625	4	EACH	PULL BOX, 725.08, 18", AS PER PLAN, TYPE A (ELECTRIC)
625	4	EACH	PULL BOX, MISC.: PULL BOX, 725.08, 32", TYPE B (TRAFFIC)
625	1	EACH	GROUND ROD
625	1	EACH	POWER SERVICE, AS PER PLAN A
631	1	EACH	SIGN LIGHTING, MISC.: DISCONNECT SWITCH, 60A
632	1	EACH	SIGNALIZATION, MISC.: CCTV IP - CAMERA SYSTEM, CISCO VSOM 4.2 COMPATIBLE, UNPRESSURIZED
632	1	EACH	SIGNALIZATION, MISC.: CCTV POLE, TYPE A (70 FT.), WITH LOWERING DEVICE
632	1	EACH	SIGNALIZATION, MISC.: VEHICLE DETECTION UNIT
632	1	EACH	SIGNALIZATION, MISC.: DEVICE WORK PAD, TYPE C
633	1	EACH	CONTROLLER ITEM, MISC.: FIELD EQUIPMENT CABINET, ITS CABINET

REFER TO SHEETS 7-8 FOR PULL BOX AND CONDUIT DETAILS
REFER TO SHEETS 9-10 FOR WORK PAD DETAILS
REFER TO SHEETS 11-15 FOR ELECTRICAL DETAILS
REFER TO SHEET 16 FOR COMMUNICATION SERVICE DETAILS
REFER TO SHEETS 18-19 FOR TYPICAL CCTV CAMERA POLE DETAILS
REFER TO SHEET 20 FOR POLE ORIENTATION CHART
REFER TO SHEET 114 FOR COMMUNICATIONS PLAN OVERVIEW
REFER TO SHEET 119 FOR FIELD CABINET LAYOUT

- PB1 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 652+77.0, 565.5' LT.
- PB2 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 654+77.0, 565.5' LT.
- PB3 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 653+75.5, 478.5' LT.
- PB4 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 653+75.5, 478.5' LT.
- PB5 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 654+14.0, 479.0' LT.
- PB6 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 654+14.0, 479.0' LT.
- PB7 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 654+12.5, 111.0' LT.
- PB8 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 654+12.5, 111.0' LT.

DETAIL A - NOT TO SCALE

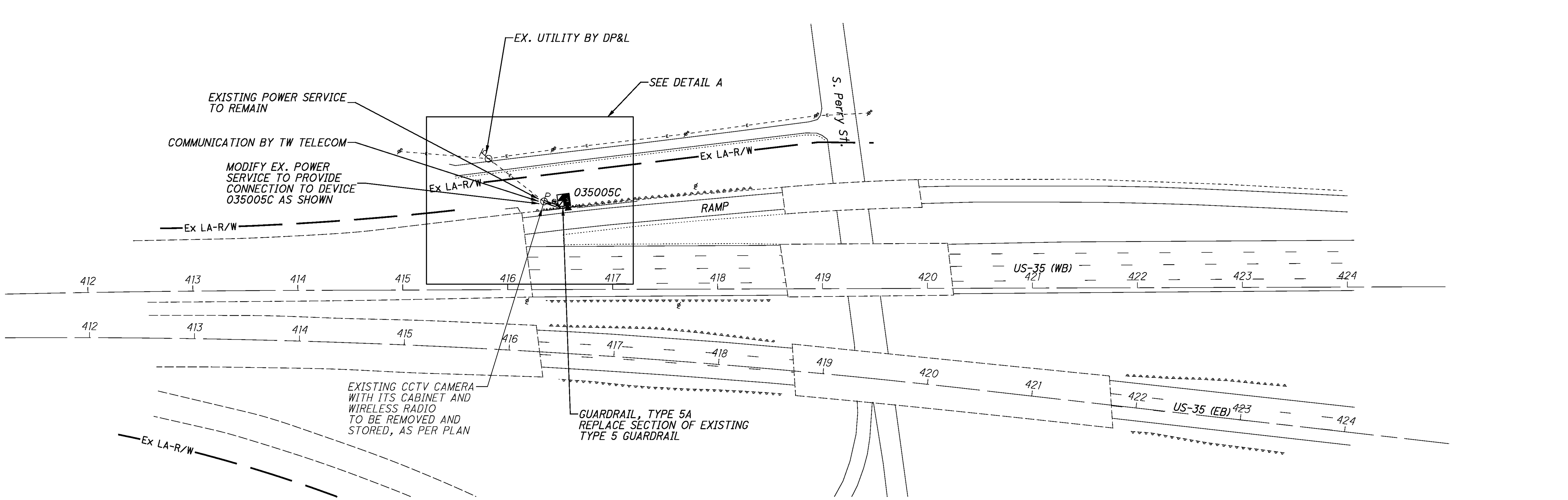


0 25 50 100
HORIZONTAL SCALE IN FEET

CALCULATED RTM
CHECKED MJH

SITE PLAN #48 - MOT-35-12.83
US-35 AT GETTYSBURG AVE INTERCHANGE

VAR-Dayton Springfield Freeway Management System

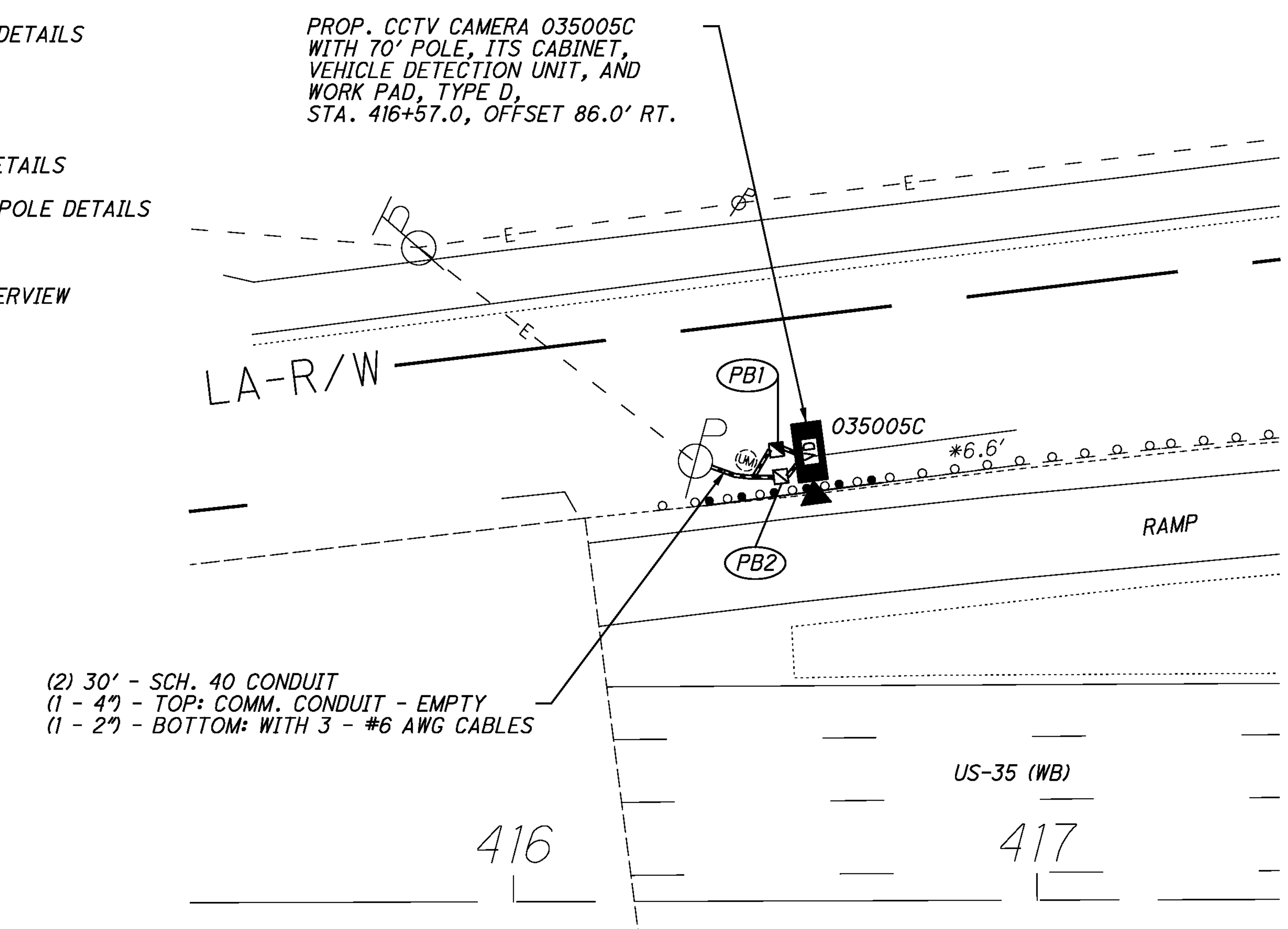


SUB-SUMMARY			
ITEM	TOTAL	UNIT	DESCRIPTION
202	35	FT	GUARDRAIL REMOVED
606	35	FT	GUARDRAIL, TYPE 5A
625	225	FT	NO. 6 AWG 5000 VOLT DISTRIBUTION CABLE
625	30	FT	CONDUIT, 2", 725.05, AS PER PLAN
625	30	FT	CONDUIT, 4", 725.05, AS PER PLAN
625	30	FT	TRENCH, 24" DEEP
625	1	EACH	PULL BOX, 725.08, 18", AS PER PLAN, TYPE A (ELECTRIC)
625	1	EACH	PULL BOX, MISC.: PULL BOX, 725.08, 32", TYPE B (TRAFFIC)
625	1	EACH	GROUND ROD
625	1	EACH	LIGHTING, MISC.: REUSE OF EXISTING POWER SERVICE
632	1	EACH	REMOVAL OF MISC. TRAFFIC SIGNAL ITEM: REMOVAL OF EXISTING CCTV CAMERA ASSEMBLY AND STORAGE, AS PER PLAN
632	1	EACH	REMOVAL OF MISC. TRAFFIC SIGNAL ITEM: REMOVAL OF EXISTING ITS CABINET AND STORAGE, AS PER PLAN
632	1	EACH	REMOVAL OF MISC. TRAFFIC SIGNAL ITEM: REMOVAL OF EXISTING WIRELESS RADIO ASSEMBLY AND STORAGE, AS PER PLAN
632	1	EACH	SIGNALIZATION, MISC.: CCTV IP - CAMERA SYSTEM, CISCO VSOM 4.2 COMPATIBLE, UNPRESSURIZED
632	1	EACH	SIGNALIZATION, MISC.: CCTV POLE, TYPE A (70 FT.), WITH LOWERING DEVICE
632	1	EACH	SIGNALIZATION, MISC.: VEHICLE DETECTION UNIT
632	1	EACH	SIGNALIZATION, MISC.: DEVICE WORK PAD, TYPE D (SLOPED AREA DESIGN)
633	1	EACH	CONTROLLER ITEM, MISC.: FIELD EQUIPMENT CABINET, ITS CABINET

REFER TO SHEETS 7-8 FOR PULL BOX AND CONDUIT DETAILS
REFER TO SHEETS 9-10 FOR WORK PAD DETAILS
REFER TO SHEETS 11-15 FOR ELECTRICAL DETAILS
REFER TO SHEET 16 FOR COMMUNICATION SERVICE DETAILS
REFER TO SHEETS 18-19 FOR TYPICAL CCTV CAMERA POLE DETAILS
REFER TO SHEET 20 FOR POLE ORIENTATION CHART
REFER TO SHEET 114 FOR COMMUNICATIONS PLAN OVERVIEW
REFER TO SHEET 119 FOR FIELD CABINET LAYOUT

PB1 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 416+51.0, 85.0' LT.
PB2 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 416+51.0, 85.0' LT.

DETAIL A - NOT TO SCALE



* PROPOSED OFFSET BETWEEN DEVICE AND FRONT OF GUARDRAIL.

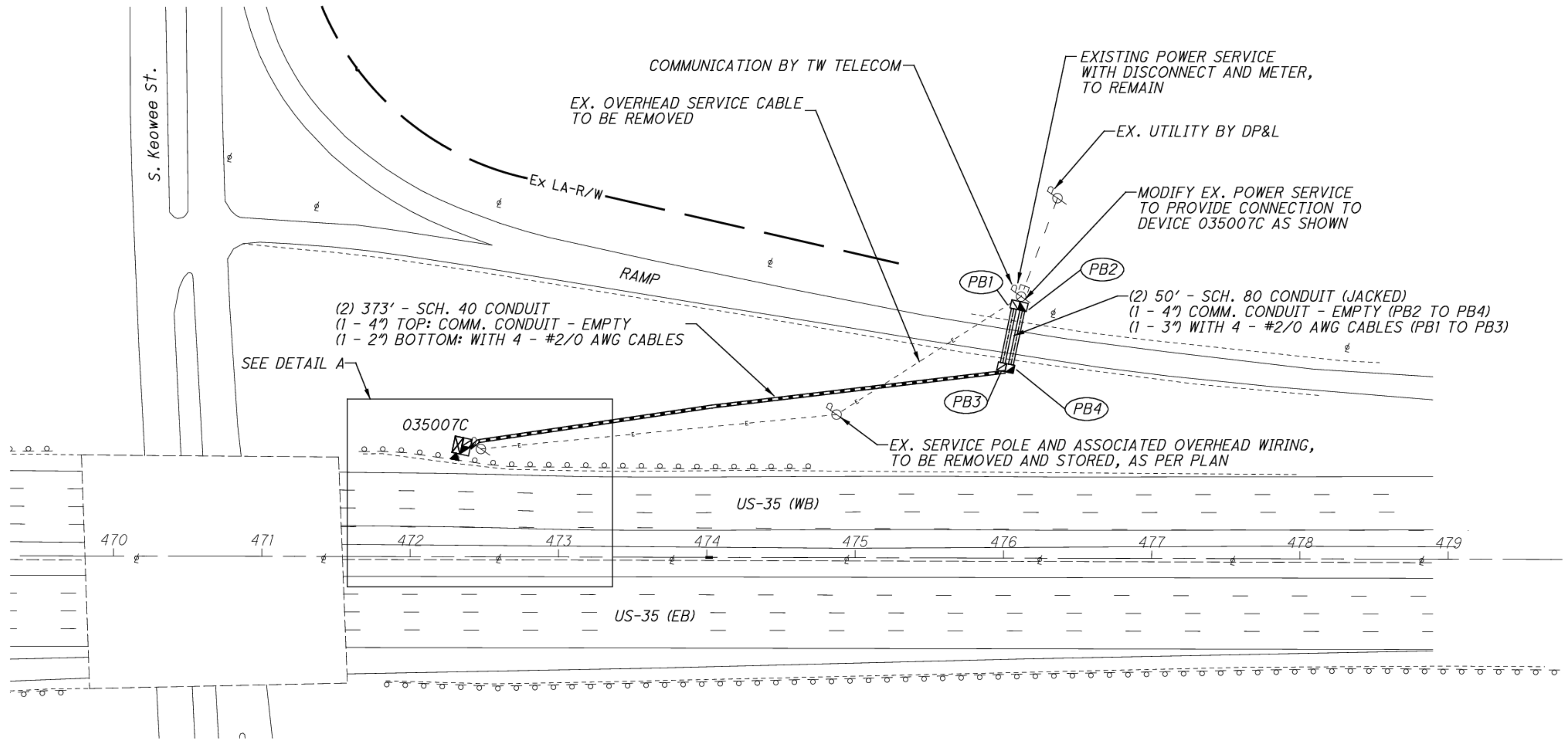
HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED RTM
CHECKED MJH

SITE PLAN #49 - MOT-35-15.94
US-35 AND SOUTH PERRY ST

VAR-Dayton Springfield Freeway Management System

REFER TO SHEETS 7-8 FOR PULL BOX AND CONDUIT DETAILS
REFER TO SHEETS 9-10 FOR WORK PAD DETAILS
REFER TO SHEETS 11-15 FOR ELECTRICAL DETAILS
REFER TO SHEET 16 FOR COMMUNICATION SERVICE DETAILS
REFER TO SHEETS 18-19 FOR TYPICAL CCTV CAMERA POLE DETAILS
REFER TO SHEET 20 FOR POLE ORIENTATION CHART
REFER TO SHEET 114 FOR COMMUNICATIONS PLAN OVERVIEW
REFER TO SHEET 115 FOR FIELD CABINET LAYOUT

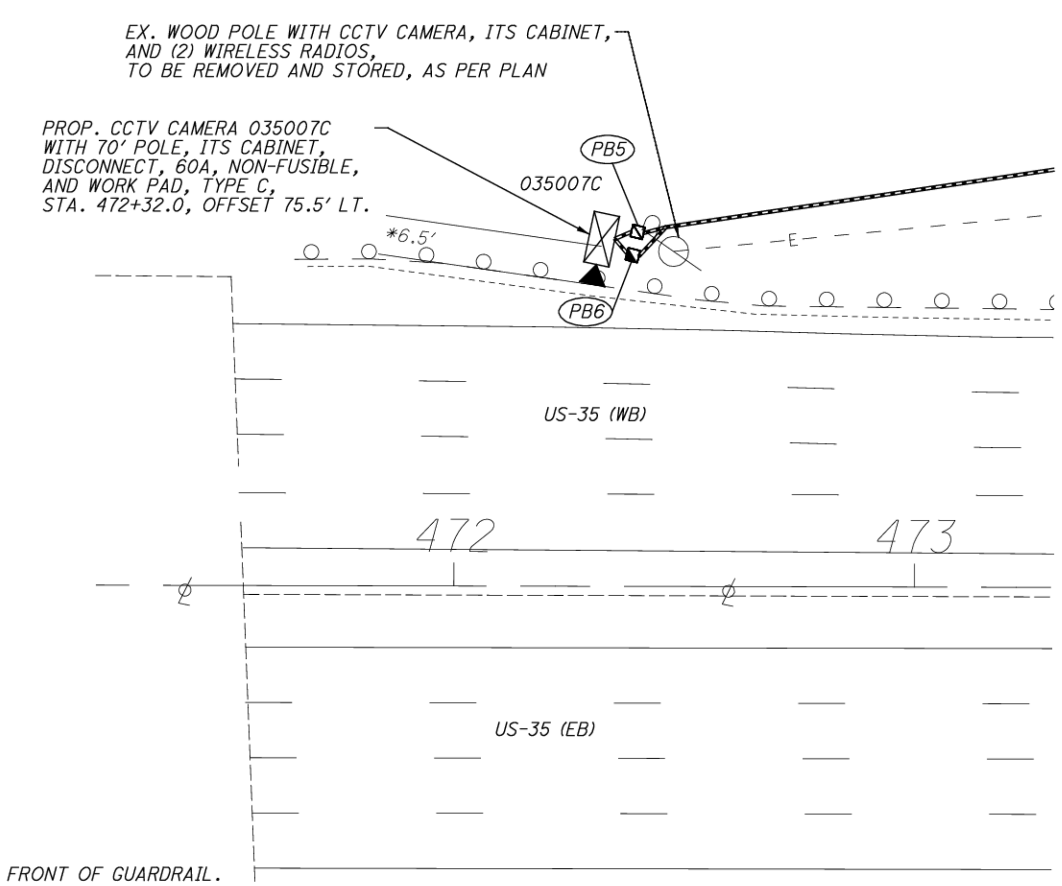


(PB1) - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 476+10.0, 170.0' LT.
(PB2) - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 476+10.0, 170.0' LT.
(PB3) - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 476+01.5, 128.5' LT.
(PB4) - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 476+01.5, 128.5' LT.
(PB5) - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 472+38.0, 74.0' LT.
(PB6) - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 472+38.0, 74.0' LT.

SUB-SUMMARY

ITEM	TOTAL	UNIT	DESCRIPTION
202	460	FT	REMOVAL, MISC.: AERIAL DISTRIBUTION CABLE REMOVED
606	25	FT	GUARDRAIL, MISC.: GUARDRAIL REMOVED AND REPLACED
625	1980	FT	NO. 2/0 AWG 5000 VOLT DISTRIBUTION CABLE
625	380	FT	CONDUIT, 2", 725.05, AS PER PLAN
625	380	FT	CONDUIT, 4", 725.05, AS PER PLAN
625	50	FT	CONDUIT JACKED OR DRILLED, 3", AS PER PLAN
625	50	FT	CONDUIT JACKED OR DRILLED, 4", AS PER PLAN
625	380	FT	TRENCH, 24" DEEP
625	3	EACH	PULL BOX, 725.08, 18", AS PER PLAN, TYPE A (ELECTRIC)
625	3	EACH	PULL BOX, MISC.: PULL BOX, 725.08, 32", TYPE B (TRAFFIC)
625	1	EACH	GROUND ROD
625	1	EACH	LIGHTING, MISC.: REUSE OF EXISTING POWER SERVICE
631	1	EACH	SIGN LIGHTING, MISC.: DISCONNECT SWITCH, 60A
632	1	EACH	REMOVAL OF MISC. TRAFFIC SIGNAL ITEM: REMOVAL OF EXISTING CCTV CAMERA ASSEMBLY AND STORAGE, AS PER PLAN
632	1	EACH	REMOVAL OF MISC. TRAFFIC SIGNAL ITEM: REMOVAL OF EXISTING ITS CABINET AND STORAGE, AS PER PLAN
632	1	EACH	REMOVAL OF MISC. TRAFFIC SIGNAL ITEM: REMOVAL OF EXISTING WIRELESS RADIO ASSEMBLY AND STORAGE, AS PER PLAN
632	1	EACH	REMOVAL OF MISC. TRAFFIC SIGNAL ITEM: REMOVAL OF WOOD POLE AND STORAGE, AS PER PLAN
632	1	EACH	SIGNALIZATION, MISC.: CCTV IP - CAMERA SYSTEM, CISCO VSOM 4.2 COMPATIBLE, UNPRESSURIZED
632	1	EACH	SIGNALIZATION, MISC.: CCTV POLE, TYPE A (70 FT.), WITH LOWERING DEVICE
632	1	EACH	SIGNALIZATION, MISC.: DEVICE WORK PAD, TYPE C
633	1	EACH	CONTROLLER ITEM, MISC.: FIELD EQUIPMENT CABINET, ITS CABINET

DETAIL A - NOT TO SCALE



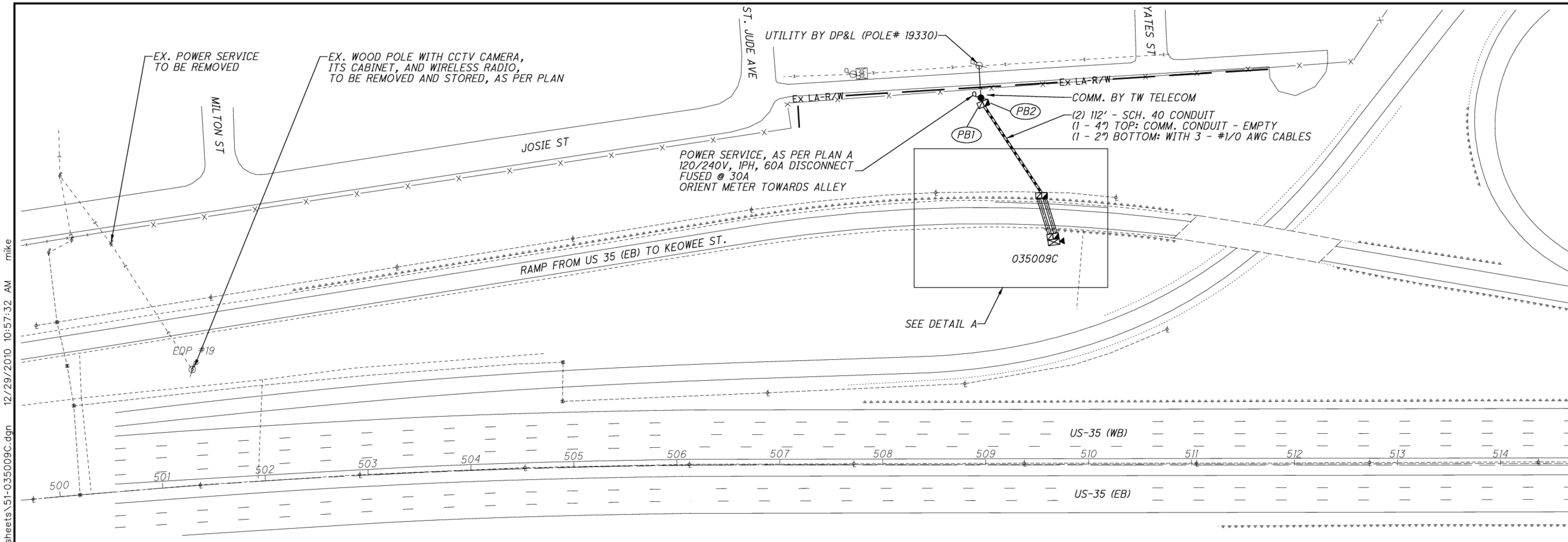
* PROPOSED OFFSET BETWEEN DEVICE AND FRONT OF GUARDRAIL.

CALCULATED RTM
CHECKED MJH

0 25 50 100
HORIZONTAL SCALE IN FEET

SITE PLAN #50 - MOT-35-17.08
US-35 AND SOUTH KEOWEE ST

VAR-Dayton Springfield Freeway Management System



PB1 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 508+98.5, 349.0' LT.

PB2 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 508+98.5, 349.0' LT.

PB3 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 509+53.5, 261.5' LT.

PB4 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 509+53.5, 261.5' LT.

PB5 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 509+65.5, 222.0' LT.

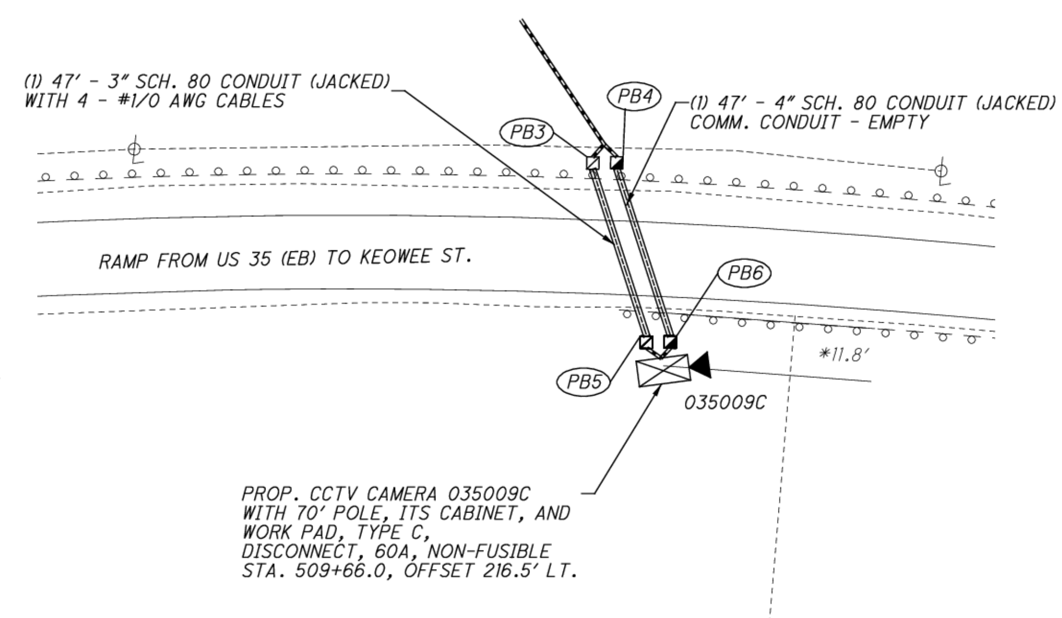
PB6 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 509+65.5, 222.0' LT.

SUB-SUMMARY

ITEM	TOTAL	UNIT	DESCRIPTION
606	25	FT	GUARDRAIL, MISC.: GUARDRAIL REMOVED AND REPLACED
625	920	FT	NO. 1/0 AWG 5000 VOLT DISTRIBUTION CABLE
625	120	FT	CONDUIT, 2", 725.05, AS PER PLAN
625	120	FT	CONDUIT, 4", 725.05, AS PER PLAN
625	50	FT	CONDUIT JACKED OR DRILLED, 3", AS PER PLAN
625	50	FT	CONDUIT JACKED OR DRILLED, 4", AS PER PLAN
625	120	FT	TRENCH, 24" DEEP
625	3	EACH	PULL BOX, 725.08, 18", AS PER PLAN, TYPE A (ELECTRIC)
625	3	EACH	PULL BOX, MISC.: PULL BOX, 725.08, 32", TYPE B (TRAFFIC)
625	1	EACH	GROUND ROD
625	1	EACH	POWER SERVICE, AS PER PLAN A
625	1	EACH	POWER SERVICE REMOVED
631	1	EACH	SIGN LIGHTING, MISC.: DISCONNECT SWITCH, 60A
632	1	EACH	REMOVAL OF MISC. TRAFFIC SIGNAL ITEM: REMOVAL OF EXISTING CCTV CAMERA ASSEMBLY AND STORAGE, AS PER PLAN
632	1	EACH	REMOVAL OF MISC. TRAFFIC SIGNAL ITEM: REMOVAL OF EXISTING ITS CABINET AND STORAGE, AS PER PLAN
632	1	EACH	REMOVAL OF MISC. TRAFFIC SIGNAL ITEM: REMOVAL OF EXISTING WIRELESS RADIO ASSEMBLY AND STORAGE, AS PER PLAN
632	2	EACH	REMOVAL OF MISC. TRAFFIC SIGNAL ITEM: REMOVAL OF WOOD POLE AND STORAGE, AS PER PLAN
632	1	EACH	SIGNALIZATION, MISC.: CCTV IP - CAMERA SYSTEM, CISCO VSOM 4.2 COMPATIBLE, UNPRESSURIZED
632	1	EACH	SIGNALIZATION, MISC.: CCTV POLE, TYPE A (70 FT.), WITH LOWERING DEVICE
632	1	EACH	SIGNALIZATION, MISC.: DEVICE WORK PAD, TYPE C
633	1	EACH	CONTROLLER ITEM, MISC.: FIELD EQUIPMENT CABINET, ITS CABINET

REFER TO SHEETS 7-8 FOR PULL BOX AND CONDUIT DETAILS
REFER TO SHEETS 9-10 FOR WORK PAD DETAILS
REFER TO SHEETS 11-15 FOR ELECTRICAL DETAILS
REFER TO SHEET 16 FOR COMMUNICATION SERVICE DETAILS
REFER TO SHEETS 18-19 FOR TYPICAL CCTV CAMERA POLE DETAILS
REFER TO SHEET 20 FOR POLE ORIENTATION CHART
REFER TO SHEET 114 FOR COMMUNICATIONS PLAN OVERVIEW
REFER TO SHEET 115 FOR FIELD CABINET LAYOUT

DETAIL A - NOT TO SCALE



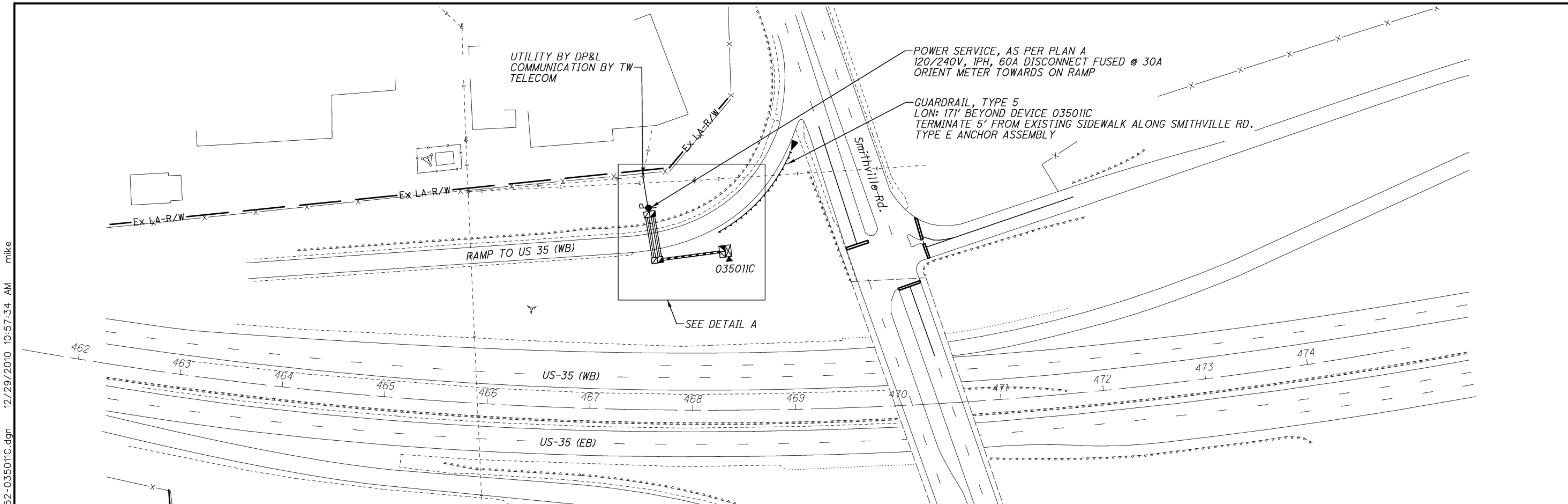
* PROPOSED OFFSET BETWEEN DEVICE AND FRONT OF GUARDRAIL.

0 25 50 100
HORIZONTAL SCALE IN FEET

CALCULATED RTM
CHECKED MJH

SITE PLAN #51 - MOT-35-17.79
US-35 AND STEVE WHALEN BLVD

VAR-Dayton Springfield Freeway Management System



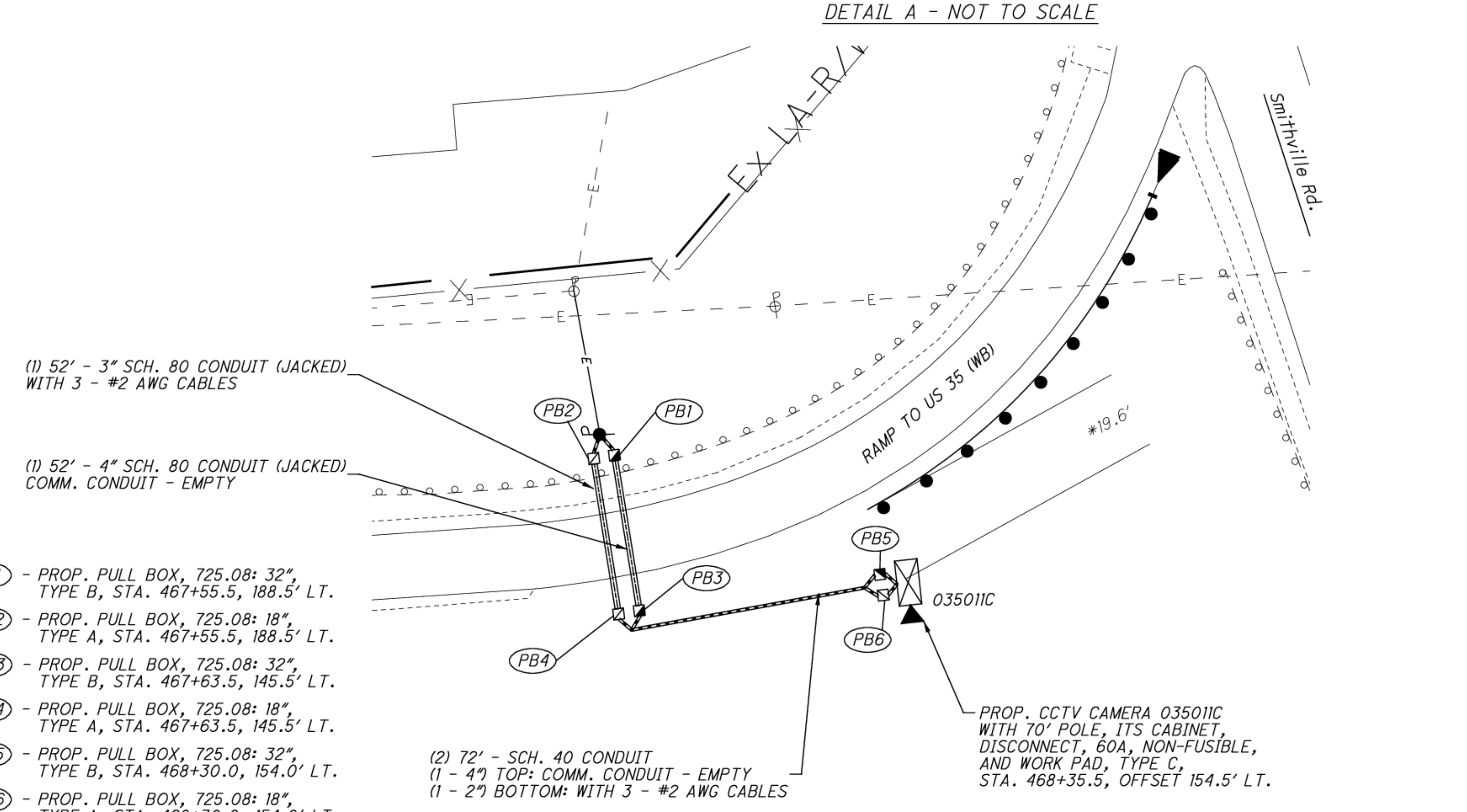
REFER TO SHEETS 7-8 FOR PULL BOX AND CONDUIT DETAILS
REFER TO SHEETS 9-10 FOR WORK PAD DETAILS
REFER TO SHEETS 11-15 FOR ELECTRICAL DETAILS
REFER TO SHEET 16 FOR COMMUNICATION SERVICE DETAILS
REFER TO SHEETS 18-19 FOR TYPICAL CCTV CAMERA POLE DETAILS
REFER TO SHEET 20 FOR POLE ORIENTATION CHART
REFER TO SHEET 114 FOR COMMUNICATIONS PLAN OVERVIEW
REFER TO SHEET 115 FOR FIELD CABINET LAYOUT

SUB-SUMMARY

ITEM	TOTAL	UNIT	DESCRIPTION
606	25	FT	GUARDRAIL, MISC.: GUARDRAIL REMOVED AND REPLACED
606	107	FT	GUARDRAIL, TYPE 5
606	1	EACH	ANCHOR ASSEMBLY, TYPE E
606	1	EACH	ANCHOR ASSEMBLY, TYPE T
625	590	FT	NO. 2 AWG 5000 VOLT DISTRIBUTION CABLE
625	80	FT	CONDUIT, 2", 725.05, AS PER PLAN
625	80	FT	CONDUIT, 4", 725.05, AS PER PLAN
625	60	FT	CONDUIT JACKED OR DRILLED, 3", AS PER PLAN
625	60	FT	CONDUIT JACKED OR DRILLED, 4", AS PER PLAN
625	80	FT	TRENCH, 24" DEEP
625	3	EACH	PULL BOX, 725.08, 18", AS PER PLAN, TYPE A (ELECTRIC)
625	3	EACH	PULL BOX, MISC.: PULL BOX, 725.08, 32", TYPE B (TRAFFIC)
625	1	EACH	GROUND ROD
625	1	EACH	POWER SERVICE, AS PER PLAN A
631	1	EACH	SIGN LIGHTING, MISC.: DISCONNECT SWITCH, 60A
632	1	EACH	SIGNALIZATION, MISC.: CCTV IP - CAMERA SYSTEM, CISCO VSOM 4.2 COMPATIBLE, UNPRESSURIZED
632	1	EACH	SIGNALIZATION, MISC.: CCTV POLE, TYPE A (70 FT.), WITH LOWERING DEVICE
632	1	EACH	SIGNALIZATION, MISC.: DEVICE WORK PAD, TYPE C
633	1	EACH	CONTROLLER ITEM, MISC.: FIELD EQUIPMENT CABINET, ITS CABINET

PB1 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 467+55.5, 188.5' LT.
PB2 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 467+55.5, 188.5' LT.
PB3 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 467+63.5, 145.5' LT.
PB4 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 467+63.5, 145.5' LT.
PB5 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 468+30.0, 154.0' LT.
PB6 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 468+30.0, 154.0' LT.

DETAIL A - NOT TO SCALE



* PROPOSED OFFSET BETWEEN DEVICE AND FRONT OF GUARDRAIL.

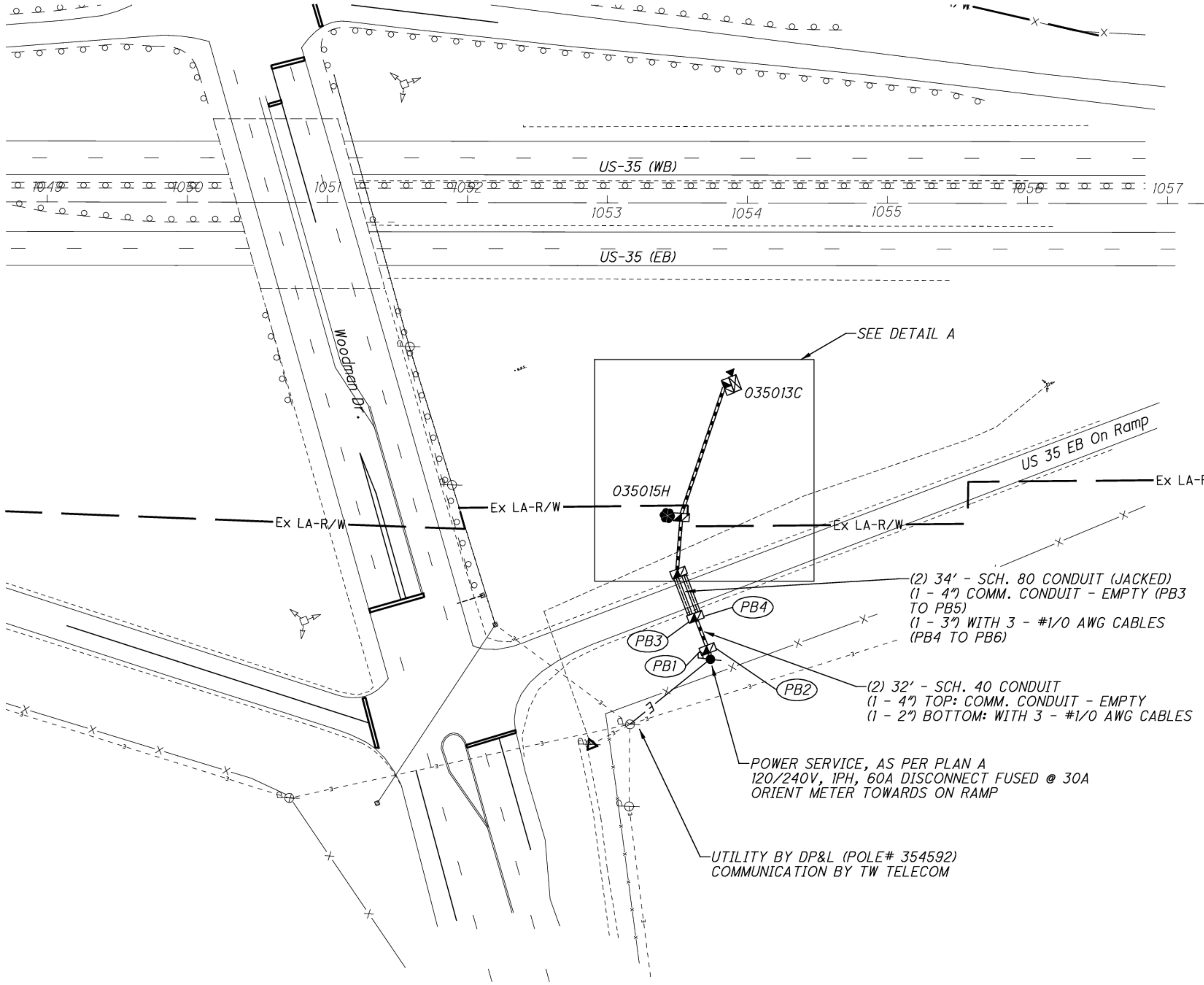
0 25 50 100
HORIZONTAL SCALE IN FEET

CALCULATED RTM
CHECKED MJH

SITE PLAN #52 - MOT-35-19.08
US-35 AND SMITHVILLE RD

VAR-Dayton Springfield Freeway Management System

M:\2008 Projects\08033 ODOT Central\001 Dayton FMS\Plan Submissions\projects\VAR\77249\traffic\sheets\53-035013C.dgn 12/29/2010 10:57:36 AM mike



REFER TO SHEETS 7-8 FOR PULL BOX AND CONDUIT DETAILS

REFER TO SHEETS 9-10 FOR WORK PAD DETAILS

REFER TO SHEETS 11-15 FOR ELECTRICAL DETAILS

REFER TO SHEET 16 FOR COMMUNICATION SERVICE DETAILS

REFER TO SHEET 17 FOR TYPICAL HAR DETAILS

REFER TO SHEETS 18-19 FOR TYPICAL CCTV CAMERA POLE DETAILS

REFER TO SHEET 20 FOR POLE ORIENTATION CHART

REFER TO SHEET 114 FOR COMMUNICATIONS PLAN OVERVIEW

REFER TO SHEET 118 FOR FIELD CABINET LAYOUT

PB1 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 1053+72.0, 318.5' RT.

PB2 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 1053+72.0, 318.5' RT.

PB3 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 1053+63.5, 295.5' RT.

PB4 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 1053+63.5, 295.5' RT.

PB5 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 1053+51.0, 264.0' RT.

PB6 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 1053+51.0, 264.0' RT.

PB7 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 1053+53.0, 224.5' RT.

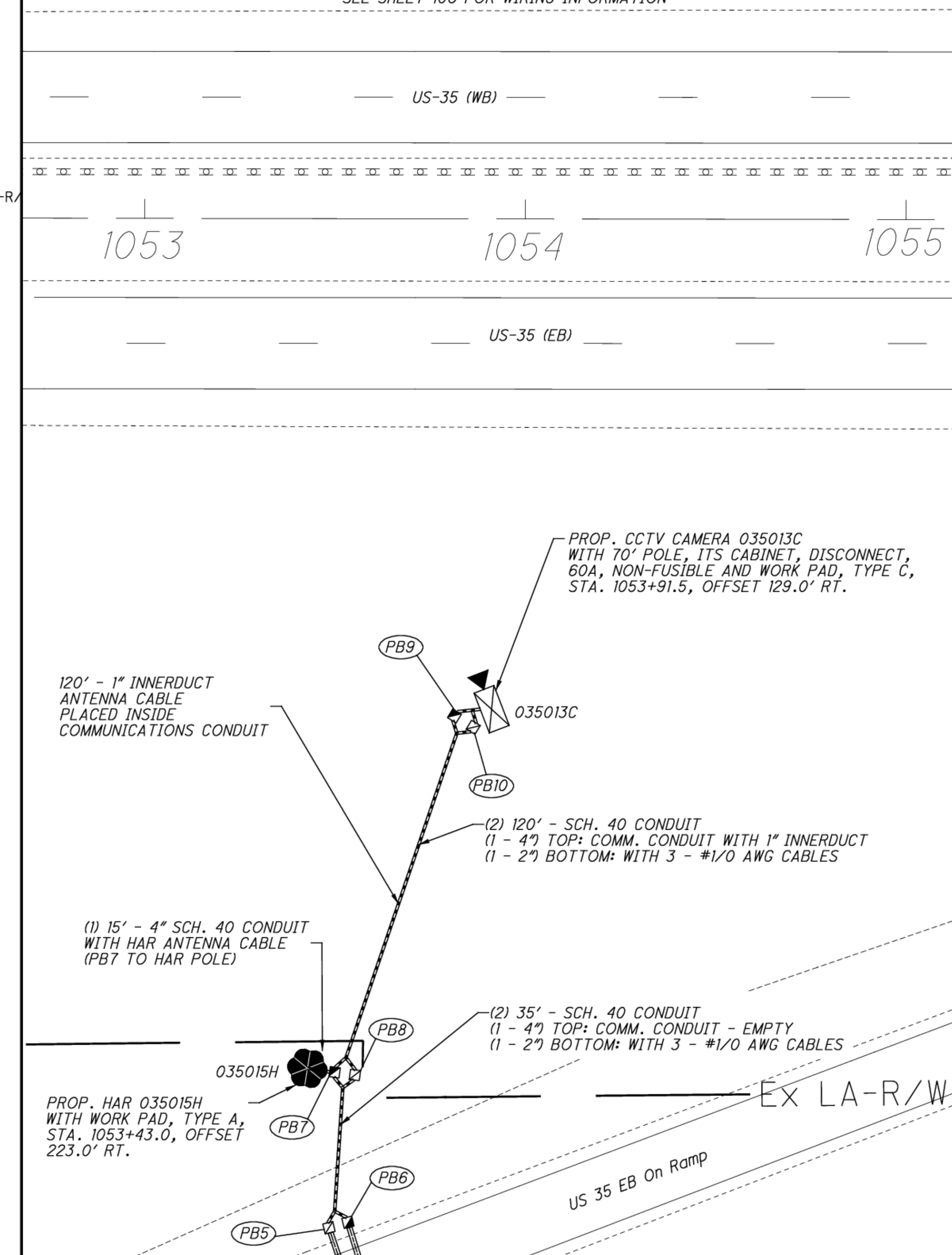
PB8 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 1053+53.0, 224.5' RT.

PB9 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 1053+42.0, 231.5' RT.

PB10 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 1053+42.0, 231.5' RT.

DETAIL A - NOT TO SCALE

SEE SHEET 106 FOR WIRING INFORMATION



HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED RTM

CHECKED MJH

SITE PLAN #53 - MOT-35-20.15

US-35 AND WOODMAN DR

VAR-Dayton Springfield Freeway Management System

PLAN CLARIFICATIONS

SITE #53: US 35 & WOODMAN DR.

CONTRACTOR:
CCTV CAMERA: CONSTRUCT A CCTV CAMERA SITE PER SITE PLAN, SHEETS 18 AND 19, SPECIAL PROVISIONS SECTIONS 3.22, 3.24/25, AND ANY OTHER PLANS OR SPECIAL PROVISIONS SECTIONS THAT MAY APPLY. CCTV CAMERA POLE SHALL BE LOCATED AT STA. 1053+91.5, OFFSET 129.0' RT AND BE ORIENTED PER ORIENTATION CHART ON SHEET 20. AN ITS CABINET SHALL BE INSTALLED ON THE CONCRETE CAMERA POLE AND HOUSE THE CCTV EQUIPMENT AND THE HAR CONTROLLER. THE ITS CABINET SHALL BE CONNECTED TO A 60 AMP POWER SERVICE.

HAR: CONSTRUCT THE HAR ANTENNA AND ASSOCIATED CONCRETE POLE AT STA. 1053+43.0, OFFSET 223.0' RT. THE HAR ANTENNA CABLE SHALL RUN UNDERGROUND FROM THE HAR CONTROLLER IN THE ITS CABINET ON THE CCTV POLE TO THE ANTENNA ON THE CONCRETE HAR POLE VIA AN 1" INNERDUCT IN THE 4" COMM. CONDUIT. SEE SITE PLANS, SHEET 17, SPECIAL PROVISIONS SECTIONS 3.20, AND ANY OTHER PLANS OR SPECIAL PROVISIONS THAT MAY BE APPLICABLE.

POWER: CONSTRUCT POWER SERVICE, AS PER PLAN A, FOR THIS SITE. SEE SHEETS 11-16, 31, AND OTHER NECESSARY SHEETS FOR ELECTRICAL DETAILS.

COORDINATE COMMUNICATION CONSTRUCTION WITH TW TELECOM.

LOCATIONS OF NEW PULL BOXES IN THE PLAN ARE APPROXIMATE AND WILL BE DETERMINED BY THE ENGINEER.

TEST EQUIPMENT AS PER SPECIAL PROVISIONS FOR LOCAL OPERATION. SEE SPECIAL PROVISIONS SECTIONS 2.23 - 2.27.

ODOT:
FURNISH AND INSTALL NETWORK SWITCH, AND SMART UPS FOR THE ITS CABINET MOUNTED ON THE CCTV POLE.

TEST NETWORK CONNECTION FOR PROPER OPERATION AS PER SPECIAL PROVISIONS.

DP&L:
CONNECT POWER FROM OVERHEAD TRANSFORMER TO POLE MOUNTED POWER SERVICE INSTALLED BY CONTRACTOR (POWER SERVICE AS PER PLAN A).

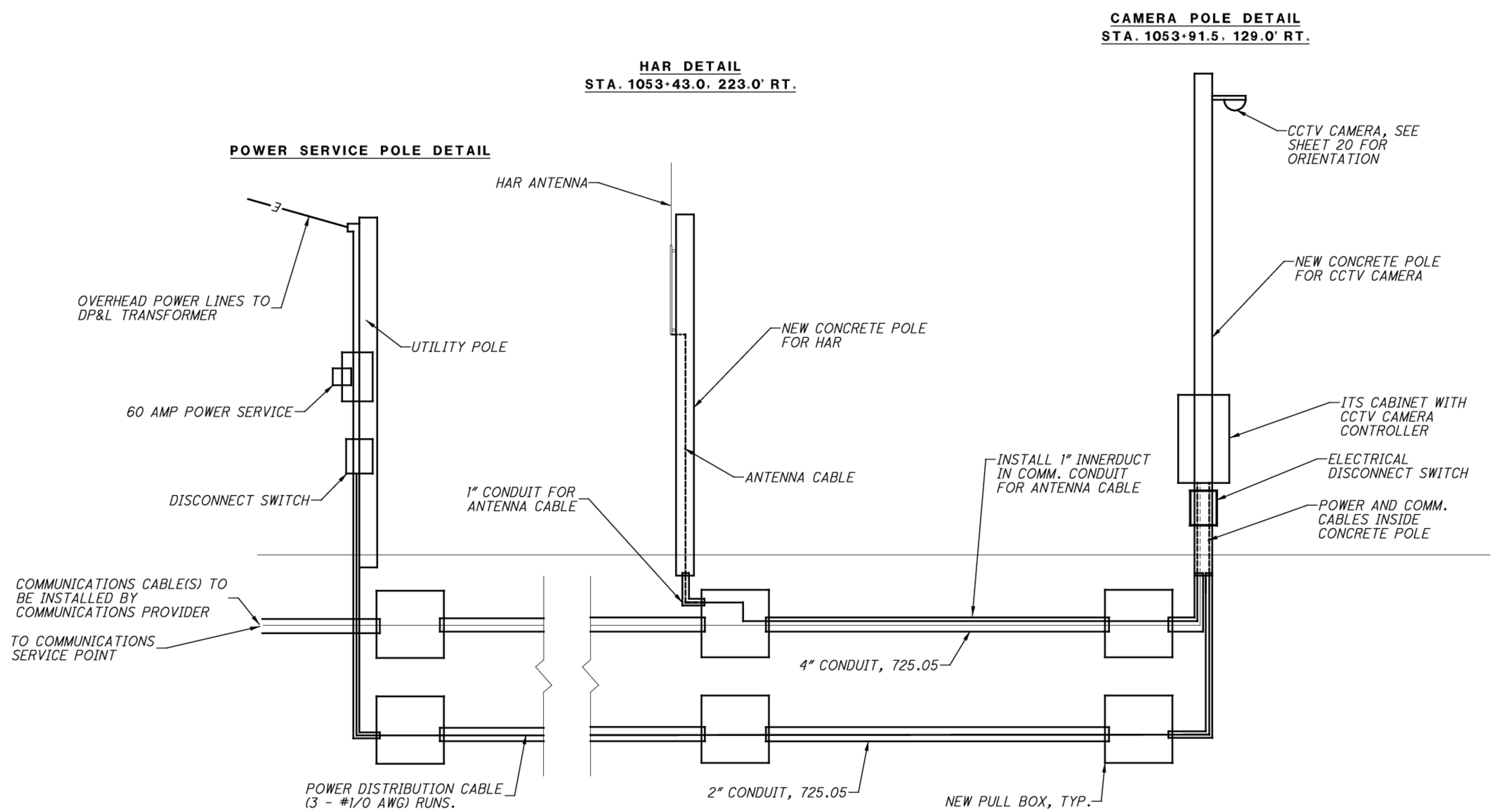
TW TELECOM:
FURNISH AND INSTALL ANY NEW COMMUNICATION CABLES AS SHOWN IN THE PLANS.

SUB-SUMMARY

ITEM	TOTAL	UNIT	DESCRIPTION
625	910	FT	NO. 1/0 AWG 5000 VOLT DISTRIBUTION CABLE
625	190	FT	CONDUIT, 2", 725.05, AS PER PLAN
625	210	FT	CONDUIT, 4", 725.05, AS PER PLAN
625	40	FT	CONDUIT JACKED OR DRILLED, 3", AS PER PLAN
625	40	FT	CONDUIT JACKED OR DRILLED, 4", AS PER PLAN
625	210	FT	TRENCH, 24" DEEP
625	5	EACH	PULL BOX, 725.08, 18", AS PER PLAN, TYPE A (ELECTRIC)
625	5	EACH	PULL BOX, MISC.: PULL BOX, 725.08, 32", TYPE B (TRAFFIC)
625	2	EACH	GROUND ROD
625	1	EACH	POWER SERVICE, AS PER PLAN A
631	1	EACH	SIGN LIGHTING, MISC.: DISCONNECT SWITCH, 60A
632	120	FT	INTERCONNECT CABLE, MISC.: INNERDUCT, 1"
632	1	EACH	INTERCONNECT, MISC.: HIGHWAY ADVISORY RADIO
632	1	EACH	SIGNALIZATION, MISC.: CCTV IP - CAMERA SYSTEM, CISCO VSOM 4.2 COMPATIBLE, UNPRESSURIZED
632	1	EACH	SIGNALIZATION, MISC.: CCTV POLE, TYPE A (70 FT.), WITH LOWERING DEVICE
632	1	EACH	SIGNALIZATION, MISC.: CONCRETE POLE, HAR SUPPORT
632	1	EACH	SIGNALIZATION, MISC.: DEVICE WORK PAD, TYPE A
632	1	EACH	SIGNALIZATION, MISC.: DEVICE WORK PAD, TYPE C
633	1	EACH	CONTROLLER ITEM, MISC.: FIELD EQUIPMENT CABINET, ITS CABINET

SITE #53 WIRING DETAIL

NOT TO SCALE



REFER TO SHEETS 7-8 FOR PULL BOX AND CONDUIT DETAILS
REFER TO SHEETS 9-10 FOR WORK PAD DETAILS
REFER TO SHEETS 11-15 FOR ELECTRICAL DETAILS
REFER TO SHEET 16 FOR COMMUNICATION SERVICE DETAILS
REFER TO SHEET 17 FOR TYPICAL HAR DETAILS
REFER TO SHEETS 18-19 FOR TYPICAL CCTV CAMERA POLE DETAILS
REFER TO SHEET 20 FOR POLE ORIENTATION CHART
REFER TO SHEET 114 FOR COMMUNICATIONS PLAN OVERVIEW
REFER TO SHEET 118 FOR FIELD CABINET LAYOUT

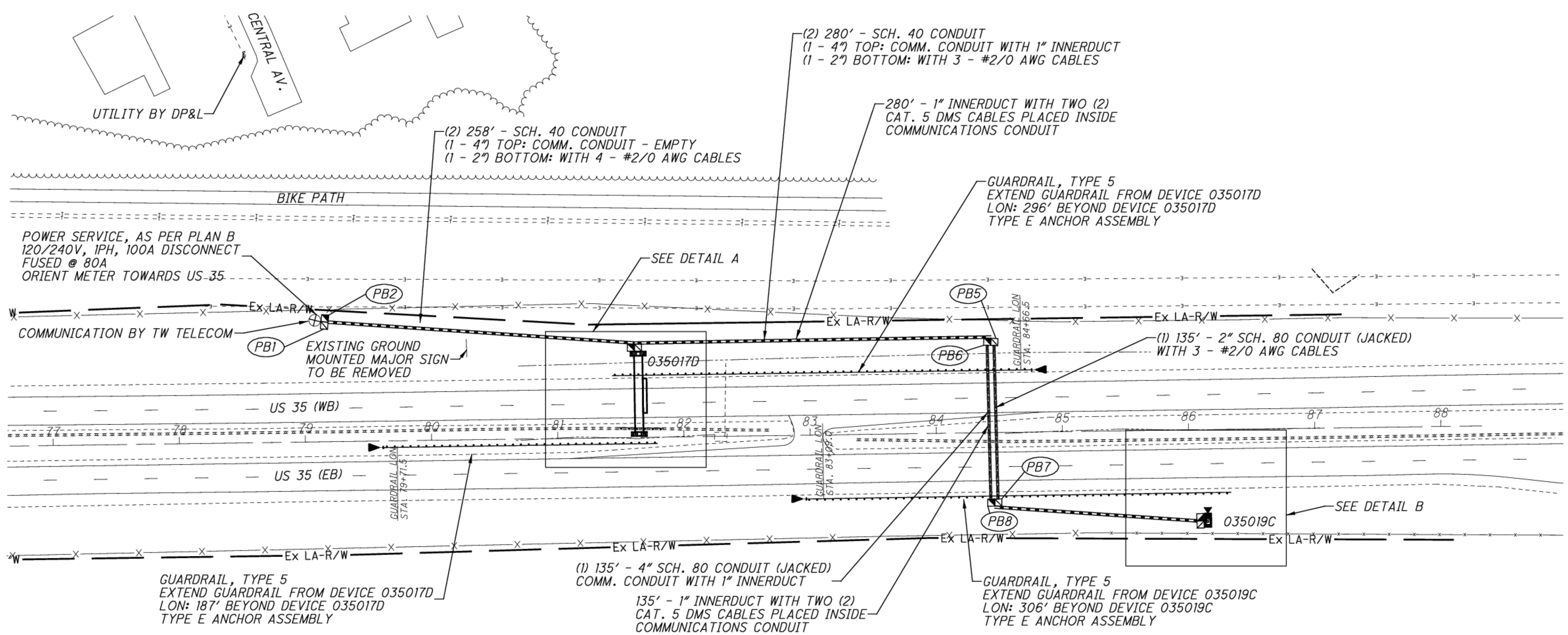
0 25 50 100
HORIZONTAL SCALE IN FEET

CALCULATED RTM
CHECKED MJH

SITE #53 - MOT-35-20.15 - DETAILS
US-35 AND WOODMAN DR

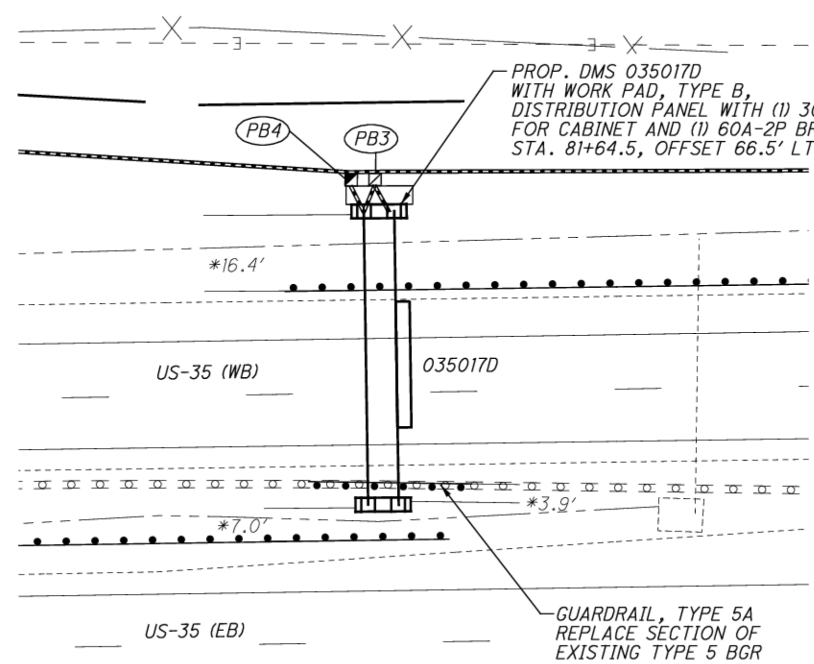
VAR-Dayton Springfield Freeway Management System

(PB1) - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 79+19.0, 95.0' LT.
(PB2) - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 79+19.0, 95.0' LT.
(PB3) - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 81+64.5, 74.0' LT.
(PB4) - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 81+64.5, 74.0' LT.
(PB5) - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 84+44.5, 73.5' LT.
(PB6) - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 84+44.5, 73.5' LT.
(PB7) - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 84+45.5, 55.0' RT.
(PB8) - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 84+45.5, 55.0' RT.
(PB9) - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 86+08.5, 72.5' RT.
(PB10) - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 86+08.5, 72.5' RT.



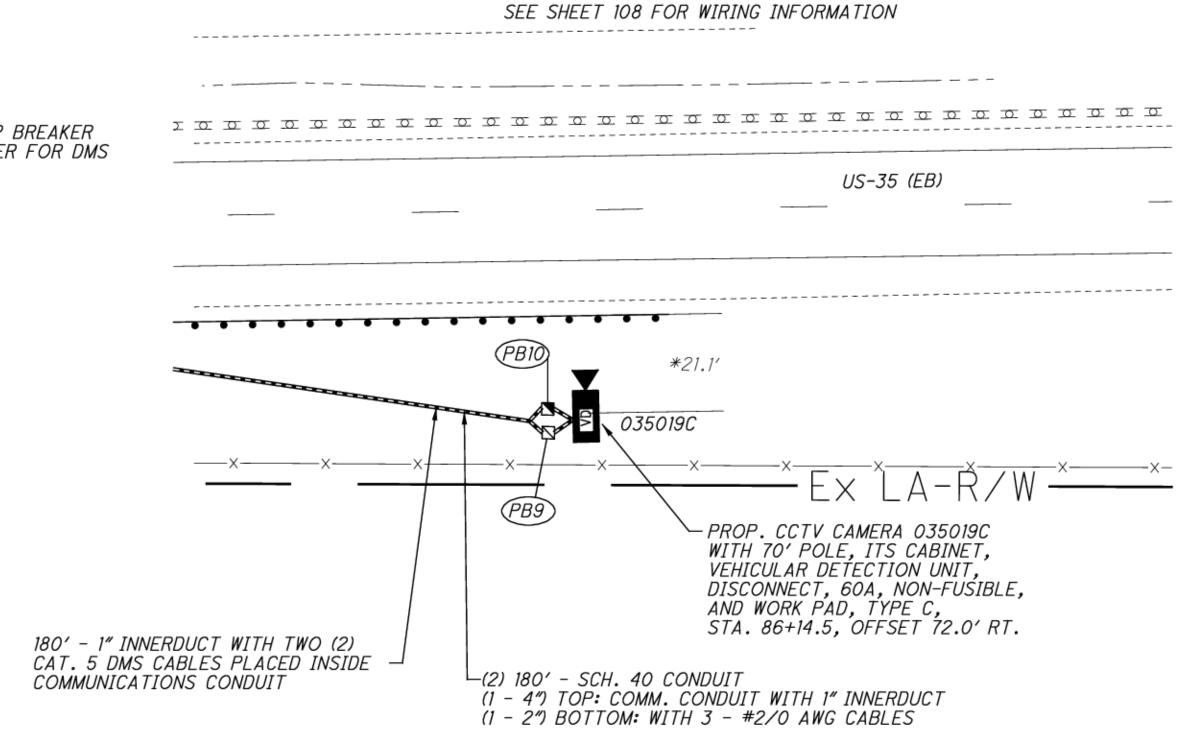
DETAIL A - NOT TO SCALE

SEE SHEET 108 FOR WIRING INFORMATION



DETAIL B - NOT TO SCALE

SEE SHEET 108 FOR WIRING INFORMATION



REFER TO SHEETS 7-8 FOR PULL BOX AND CONDUIT DETAILS
REFER TO SHEETS 9-10 FOR WORK PAD DETAILS
REFER TO SHEETS 11-15 FOR ELECTRICAL DETAILS
REFER TO SHEET 16 FOR COMMUNICATION SERVICE DETAILS
REFER TO SHEETS 18-19 FOR TYPICAL CCTV CAMERA POLE DETAILS
REFER TO SHEET 20 FOR POLE ORIENTATION CHART
REFER TO SHEET 21 FOR TYPICAL DMS DETAILS
REFER TO SHEET 25 FOR TYPICAL DMS TRUSS FOUNDATION DETAILS
REFER TO SHEETS 26-27 FOR TYPICAL DMS TRUSS DETAILS
REFER TO SHEET 114 FOR COMMUNICATIONS PLAN OVERVIEW
REFER TO SHEET 120 FOR FIELD CABINET LAYOUT

* PROPOSED OFFSET BETWEEN DEVICE AND FRONT OF GUARDRAIL.

0 25 50 100
HORIZONTAL SCALE IN FEET

CALCULATED RTM
CHECKED MJH

SITE PLAN #54 - GRE-35-1.59
US-35 EAST OF I-675

VAR-Dayton Springfield Freeway Management System

SUB-SUMMARY			
ITEM	TOTAL	UNIT	DESCRIPTION
202	36	FT	GUARDRAIL REMOVED
606	886	FT	GUARDRAIL, TYPE 5
606	36	FT	GUARDRAIL, TYPE 5A
606	3	EACH	ANCHOR ASSEMBLY, TYPE E
606	3	EACH	ANCHOR ASSEMBLY, TYPE T
625	4490	FT	NO. 2/0 AWG 5000 VOLT DISTRIBUTION CABLE
625	720	FT	CONDUIT, 2", 725.05, AS PER PLAN
625	730	FT	CONDUIT, 4", 725.05, AS PER PLAN
625	140	FT	CONDUIT JACKED OR DRILLED, 3", AS PER PLAN
625	140	FT	CONDUIT JACKED OR DRILLED, 4", AS PER PLAN
625	720	FT	TRENCH, 24" DEEP
625	5	EACH	PULL BOX, 725.08, 18", AS PER PLAN, TYPE A (ELECTRIC)
625	5	EACH	PULL BOX, MISC.: PULL BOX, 725.08, 32", TYPE B (TRAFFIC)
625	2	EACH	GROUND ROD
625	1	EACH	POWER SERVICE, AS PER PLAN B
630	3	EACH	SIGN ATTACHMENT ASSEMBLY
630	168	SQ FT	SIGN, OVERHEAD EXTRUSHEET, AS PER PLAN
630	1	EACH	REMOVAL OF GROUND MOUNTED MAJOR SIGN AND DISPOSAL, AS PER PLAN
630	2	EACH	REMOVAL OF GROUND MOUNTED STRUCTURAL BEAM SUPPORT AND DISPOSAL
630	1	EACH	OVERHEAD SIGN SUPPORT, DMS TRUSS, 80' AS PER PLAN
630	2	EACH	OVERHEAD SIGN SUPPORT FOUNDATION, DMS TRUSS
631	1	EACH	SIGN LIGHTING, MISC.: DISCONNECT SWITCH, 60A
631	1	EACH	SIGN LIGHTING, MISC.: DYNAMIC MESSAGE SIGN
632	600	FT	INTERCONNECT CABLE, MISC.: INNERDUCT, 1"
632	1	EACH	CONDUIT RISER, 1" DIAMETER
632	1	EACH	SIGNALIZATION, MISC.: CCTV IP - CAMERA SYSTEM, CISCO VSOM 4.2 COMPATIBLE, UNPRESSURIZED
632	1	EACH	SIGNALIZATION, MISC.: CCTV POLE, TYPE A (70 FT.), WITH LOWERING DEVICE
632	1	EACH	SIGNALIZATION, MISC.: VEHICLE DETECTION UNIT
632	1	EACH	SIGNALIZATION, MISC.: DEVICE WORK PAD, TYPE B
632	1	EACH	SIGNALIZATION, MISC.: DEVICE WORK PAD, TYPE C
633	1	EACH	CONTROLLER ITEM, MISC.: FIELD EQUIPMENT CABINET, ITS CABINET

REFER TO SHEETS 7-8 FOR PULL BOX AND CONDUIT DETAILS

REFER TO SHEETS 9-10 FOR WORK PAD DETAILS

REFER TO SHEETS 11-15 FOR ELECTRICAL DETAILS

REFER TO SHEET 16 FOR COMMUNICATION SERVICE DETAILS

REFER TO SHEETS 18-19 FOR TYPICAL CCTV CAMERA POLE DETAILS

REFER TO SHEET 20 FOR POLE ORIENTATION CHART

REFER TO SHEET 21 FOR TYPICAL DMS DETAILS

REFER TO SHEET 25 FOR TYPICAL DMS TRUSS FOUNDATION DETAILS

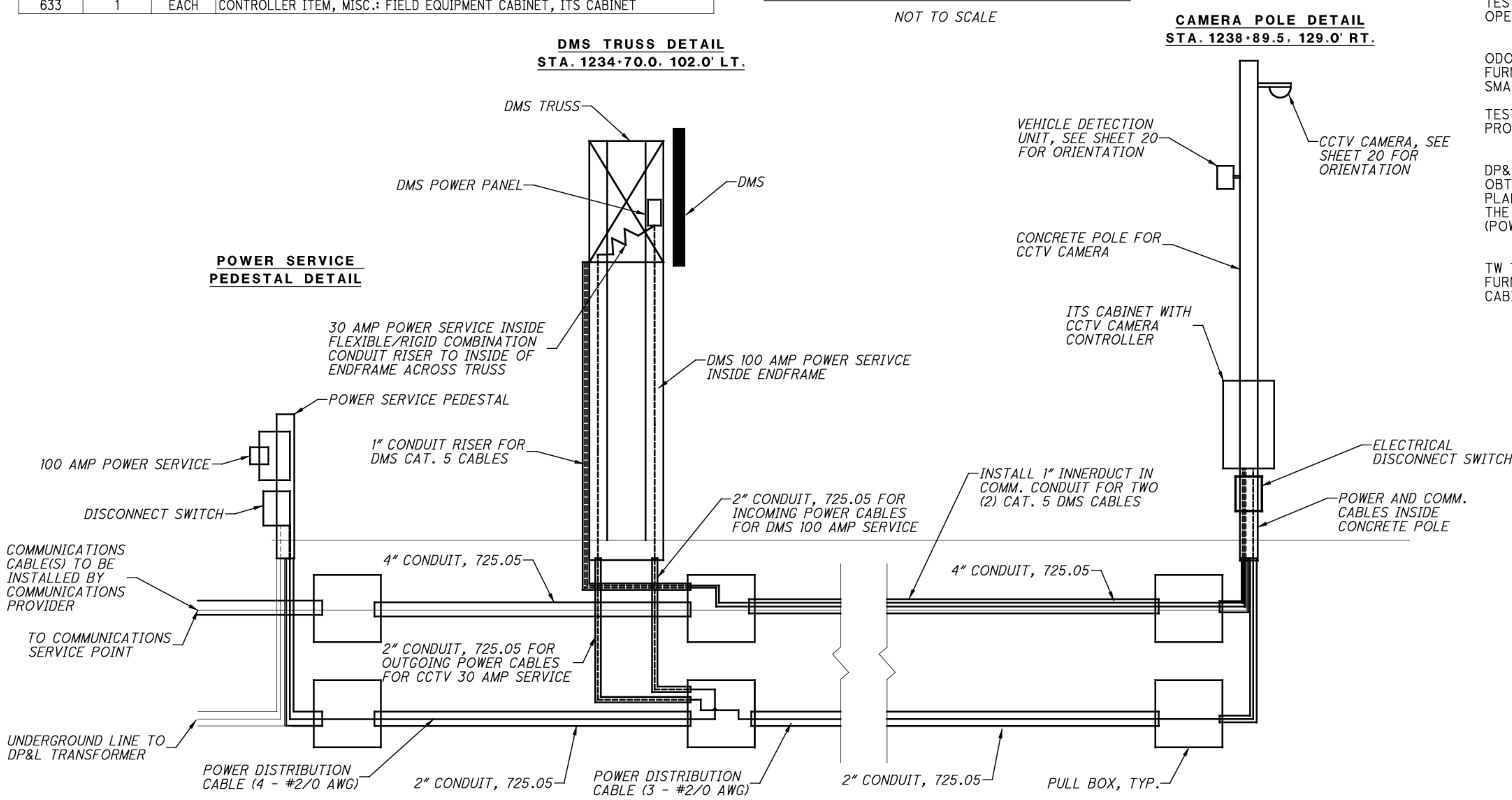
REFER TO SHEETS 26-27 FOR TYPICAL DMS TRUSS DETAILS

REFER TO SHEET 114 FOR COMMUNICATIONS PLAN OVERVIEW

REFER TO SHEET 120 FOR FIELD CABINET LAYOUT

SITE #54 WIRING DETAIL

NOT TO SCALE



PLAN CLARIFICATIONS

SITE #54: US 35 EAST OF I-675

CONTRACTOR:
CCTV CAMERA: CONSTRUCT A CCTV CAMERA SITE PER SITE PLAN, SHEETS 18 AND 19, SPECIAL PROVISIONS SECTIONS 3.22, 3.24/25, AND ANY OTHER PLANS OR SPECIAL PROVISIONS SECTIONS THAT MAY APPLY. THE CCTV CAMERA POLE SHALL BE LOCATED AT STA. 1238+89.5, OFFSET 129.0' RT AND BE ORIENTED PER ORIENTATION CHART ON SHEET 20. THE ITS CABINET SHALL BE CONSTRUCTED ON THE CONCRETE CAMERA POLE. THE CCTV AND DMS CONTROLLERS SHALL BE LOCATED IN THE ITS CABINET. THE ITS CABINET SHALL BE CONNECTED TO 30 AMP POWER SERVICE FROM DMS POWER PANEL.

DMS: CONSTRUCT DMS AND DMS SUPPORT STRUCTURE INCLUDING FOUNDATION. PROVIDE 100 AMP POWER SERVICE UNDERGROUND FROM SERVICE POLE TO DMS. TWO (2) CAT. 5 CABLES SHALL PROVIDE COMM. SERVICE FROM NETWORK SWITCH IN NEW ITS CABINET TO MAIN DMS CONTROLLER IN THE SIGN AND THEN BACK TO AUXILIARY CONTROL PANEL IN THE ITS CABINET ON CAMERA CONCRETE POLE VIA 1" INNERDUCT IN COMM. CONDUITS. SEE SITE PLANS, SPECIAL PROVISIONS SECTIONS 3.10, 3.16, AND ANY OTHER PLANS OR SPECIAL PROVISIONS THAT MAY BE APPLICABLE.

VEHICLE DETECTION UNIT: INSTALL A VEHICLE DETECTION UNIT ON THE CAMERA POLE. REFER TO SITE PLANS, SPECIAL PROVISION SECTION 3.27, AND ANY OTHER PLANS OR SPECIAL PROVISIONS THAT MAY APPLY. ORIENT DEVICE ON CCTV POLE AS DIRECTED BY THE ENGINEER.

POWER: CONSTRUCT POWER SERVICE, AS PER PLAN A, FOR THIS SITE. SEE SHEETS 11-16, 31, AND ANY OTHER NECESSARY SHEETS FOR ELECTRICAL DETAILS.

COORDINATE COMMUNICATION CONSTRUCTION WITH TW TELECOM.

LOCATIONS OF PULL BOXES IN THE PLAN ARE APPROXIMATE AND WILL BE DETERMINED BY THE ENGINEER.

TEST EQUIPMENT AS PER SPECIAL PROVISIONS FOR LOCAL OPERATION. SEE SPECIAL PROVISIONS SECTIONS 2.23 - 2.27.

ODOT:
FURNISH AND INSTALL NETWORK SWITCH, TERMINAL SERVER, AND SMART UPS FOR THE ITS CABINET..

TEST NETWORK CONNECTION FOR PROPER OPERATION AS PER SPECIAL PROVISIONS.

DP&L:
OBTAIN POWER FROM OVERHEAD TRANSFORMER INDICATED ON THE PLANS. ROUTE POWER UNDERGROUND TO THE R/W ACCESS POINT TO THE GROUND MOUNTED POWER SERVICE INSTALLED BY CONTRACTOR (POWER SERVICE AS PER PLAN B).

TW TELECOM:
FURNISH AND INSTALL COMMUNICATION SERVICE CABLE TO ITS CABINET FROM TW TELECOM SERVICE POINT.

0 25 50 100
HORIZONTAL SCALE IN FEET

CALCULATED RTM
CHECKED MJH

SITE #54 - GRE-35-1.59 - DETAIL
US-35 EAST OF I-675

VAR-Dayton Springfield Freeway Management System

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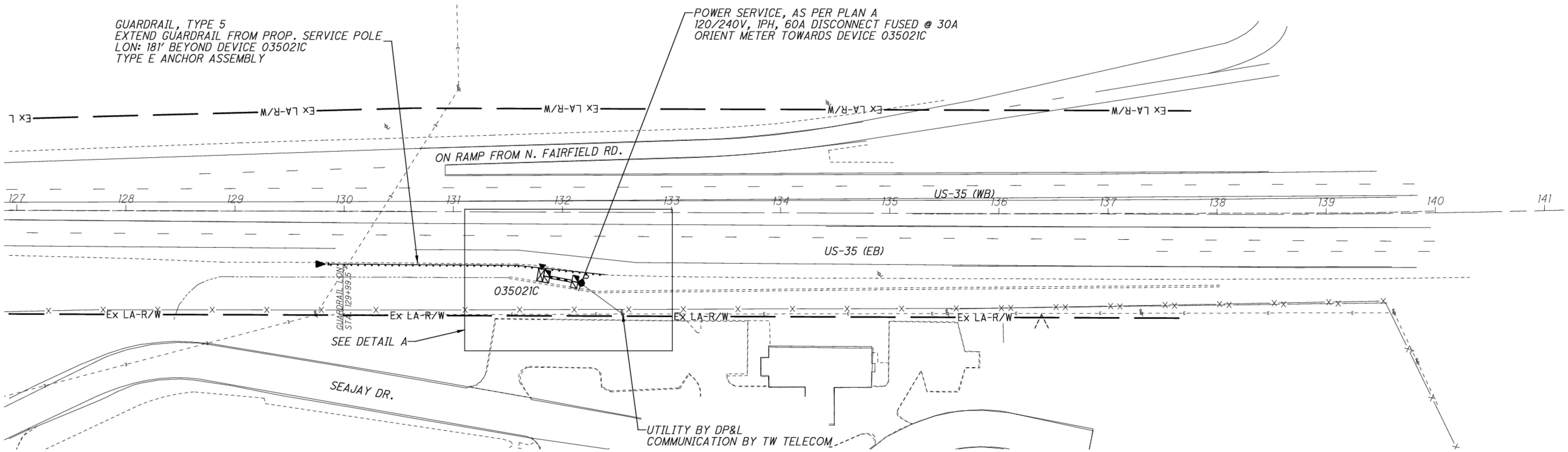


SUB-SUMMARY			
ITEM	TOTAL	UNIT	DESCRIPTION
606	253	FT	GUARDRAIL, TYPE 5
606	1	EACH	ANCHOR ASSEMBLY, TYPE E
606	1	EACH	ANCHOR ASSEMBLY, TYPE T
625	310	FT	NO. 6 AWG 5000 VOLT DISTRIBUTION CABLE
625	40	FT	CONDUIT, 2", 725.05, AS PER PLAN
625	40	FT	CONDUIT, 4", 725.05, AS PER PLAN
625	40	FT	TRENCH, 24" DEEP
625	2	EACH	PULL BOX, 725.08, 18", AS PER PLAN, TYPE A (ELECTRIC)
625	2	EACH	PULL BOX, MISC.: PULL BOX, 725.08, 32", TYPE B (TRAFFIC)
625	1	EACH	GROUND ROD
625	1	EACH	POWER SERVICE, AS PER PLAN A
632	1	EACH	SIGNALIZATION, MISC.: CCTV IP - CAMERA SYSTEM, CISCO VSOM 4.2 COMPATIBLE, UNPRESSURIZED
632	1	EACH	SIGNALIZATION, MISC.: CCTV POLE, TYPE A (70 FT.), WITH LOWERING DEVICE
632	1	EACH	SIGNALIZATION, MISC.: DEVICE WORK PAD, TYPE C
633	1	EACH	CONTROLLER ITEM, MISC.: FIELD EQUIPMENT CABINET, ITS CABINET

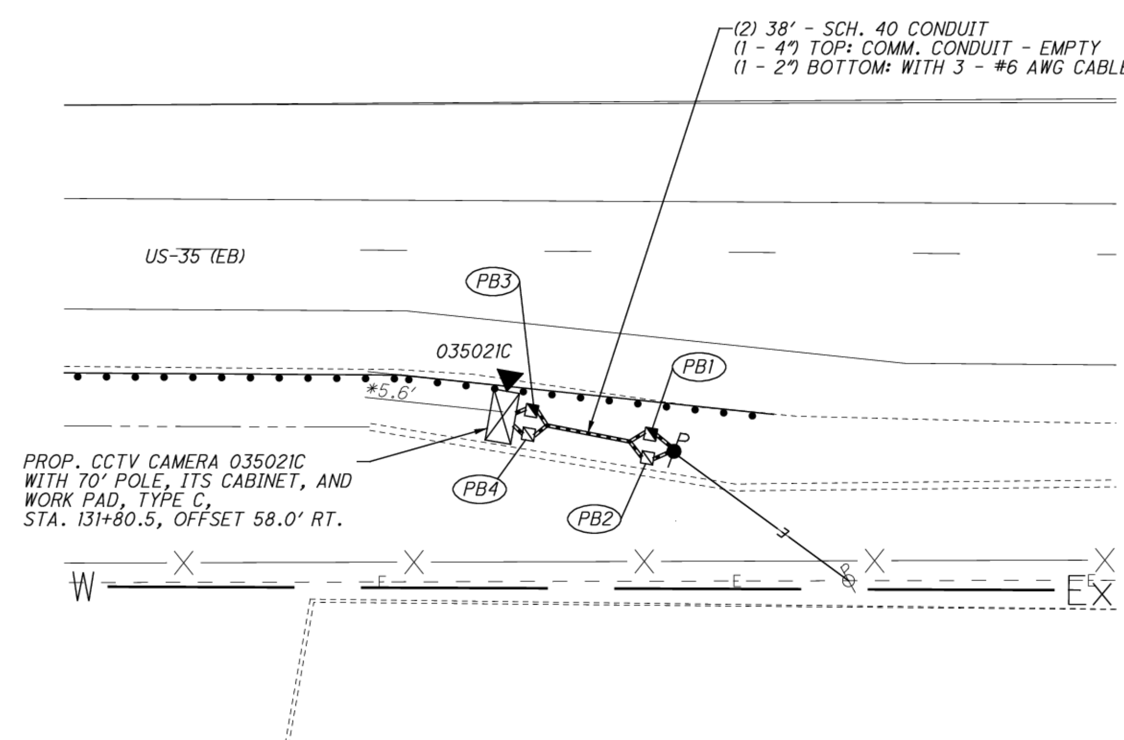
PB1 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 132+11.0, 64.0' RT.

PB2 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 132+11.0, 64.0' RT.

PB3 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 131+85.0, 59.0' RT.

PB4 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 131+85.0, 59.0' RT.

DETAIL A - NOT TO SCALE



REFER TO SHEETS 7-8 FOR PULL BOX AND CONDUIT DETAILS

REFER TO SHEETS 9-10 FOR WORK PAD DETAILS

REFER TO SHEETS 11-15 FOR ELECTRICAL DETAILS

REFER TO SHEET 16 FOR COMMUNICATION SERVICE DETAILS

REFER TO SHEETS 18-19 FOR TYPICAL CCTV CAMERA POLE DETAILS

REFER TO SHEET 20 FOR POLE ORIENTATION CHART

REFER TO SHEET 114 FOR COMMUNICATIONS PLAN OVERVIEW

REFER TO SHEET 115 FOR FIELD CABINET LAYOUT

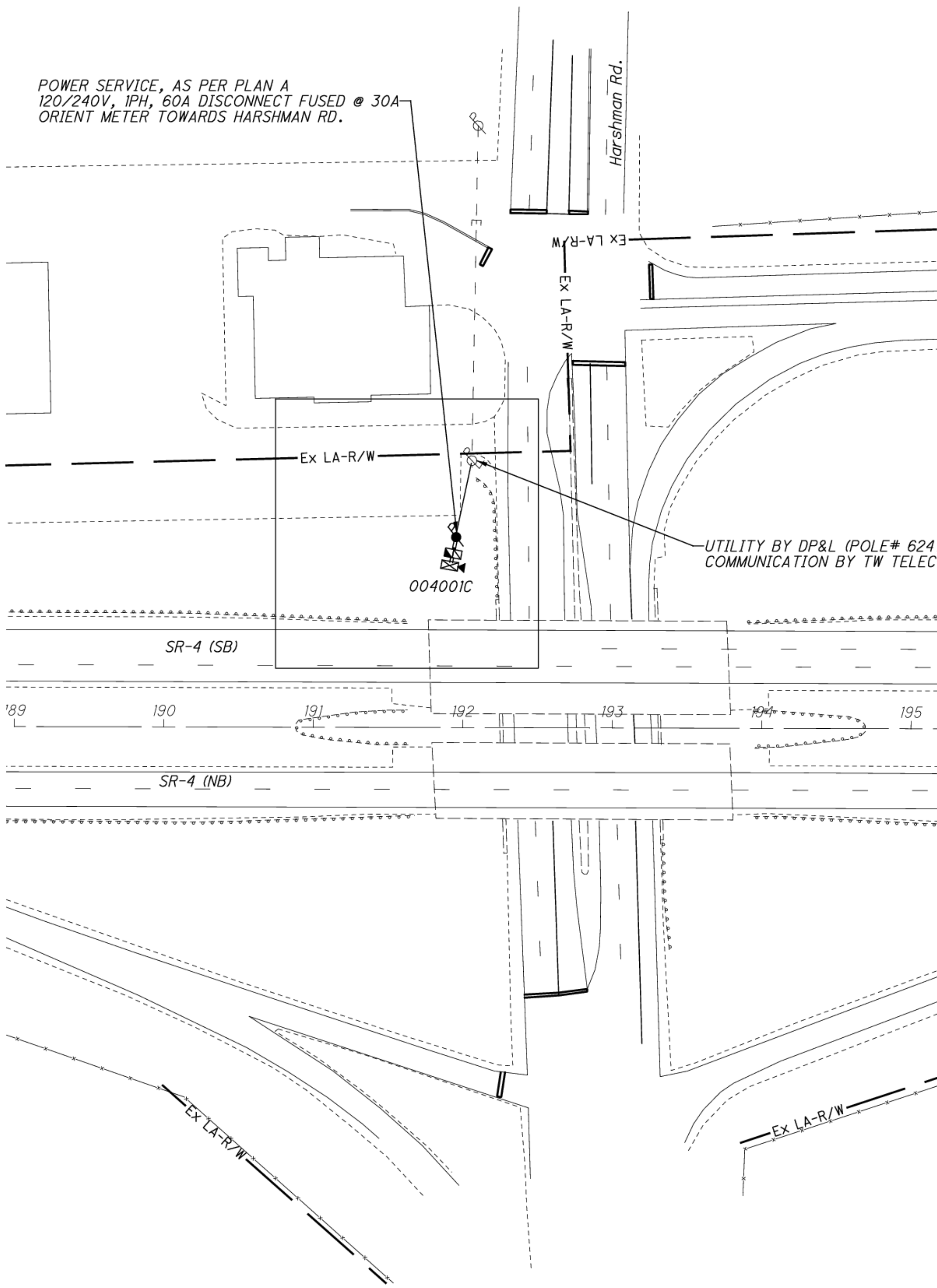
* PROPOSED OFFSET BETWEEN DEVICE AND FRONT OF GUARDRAIL.

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED RTM
CHECKED MJH

SITE PLAN #55 GRE-35-2.07
US-35 AND NORTH FAIRFIELD ROAD

VAR-Dayton Springfield Freeway Management System



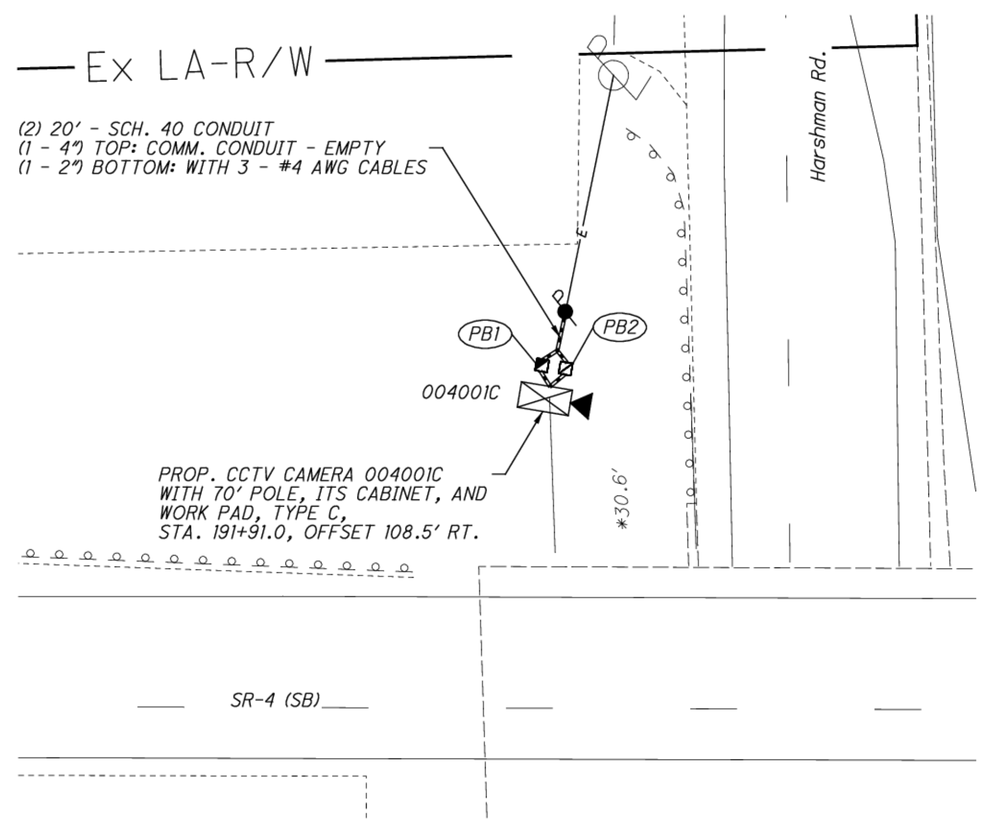
SUB-SUMMARY			
ITEM	TOTAL	UNIT	DESCRIPTION
625	220	FT	NO. 4 AWG 5000 VOLT DISTRIBUTION CABLE
625	20	FT	CONDUIT, 2", 725.05, AS PER PLAN
625	20	FT	CONDUIT, 4", 725.05, AS PER PLAN
625	20	FT	TRENCH, 24" DEEP
625	1	EACH	PULL BOX, 725.08, 18", AS PER PLAN, TYPE A (ELECTRIC)
625	1	EACH	PULL BOX, MISC.: PULL BOX, 725.08, 32", TYPE B (TRAFFIC)
625	1	EACH	GROUND ROD
625	1	EACH	POWER SERVICE, AS PER PLAN A
632	1	EACH	SIGNALIZATION, MISC.: CCTV IP - CAMERA SYSTEM, CISCO VSOM 4.2 COMPATIBLE, UNPRESSURIZED
632	1	EACH	SIGNALIZATION, MISC.: CCTV POLE, TYPE A (70 FT.), WITH LOWERING DEVICE
632	1	EACH	SIGNALIZATION, MISC.: DEVICE WORK PAD, TYPE C
633	1	EACH	CONTROLLER ITEM, MISC.: FIELD EQUIPMENT CABINET, ITS CABINET

PB1 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 191+93.0, 116.5' LT.

PB2 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 191+93.0, 116.5' LT.

REFER TO SHEETS 7-8 FOR PULL BOX AND CONDUIT DETAILS
REFER TO SHEETS 9-10 FOR WORK PAD DETAILS
REFER TO SHEETS 11-15 FOR ELECTRICAL DETAILS
REFER TO SHEET 16 FOR COMMUNICATION SERVICE DETAILS
REFER TO SHEETS 18-19 FOR TYPICAL CCTV CAMERA POLE DETAILS
REFER TO SHEET 20 FOR POLE ORIENTATION CHART
REFER TO SHEET 114 FOR COMMUNICATIONS PLAN OVERVIEW
REFER TO SHEET 115 FOR FIELD CABINET LAYOUT

DETAIL A - NOT TO SCALE



* PROPOSED OFFSET BETWEEN DEVICE AND FRONT OF GUARDRAIL.

0 25 50 100 HORIZONTAL SCALE IN FEET

CALCULATED RTM CHECKED MJH

SITE PLAN #56 - MOT-4-20.49
SR-4 AND HARSHMAN RD

VAR-Dayton Springfield Freeway Management System

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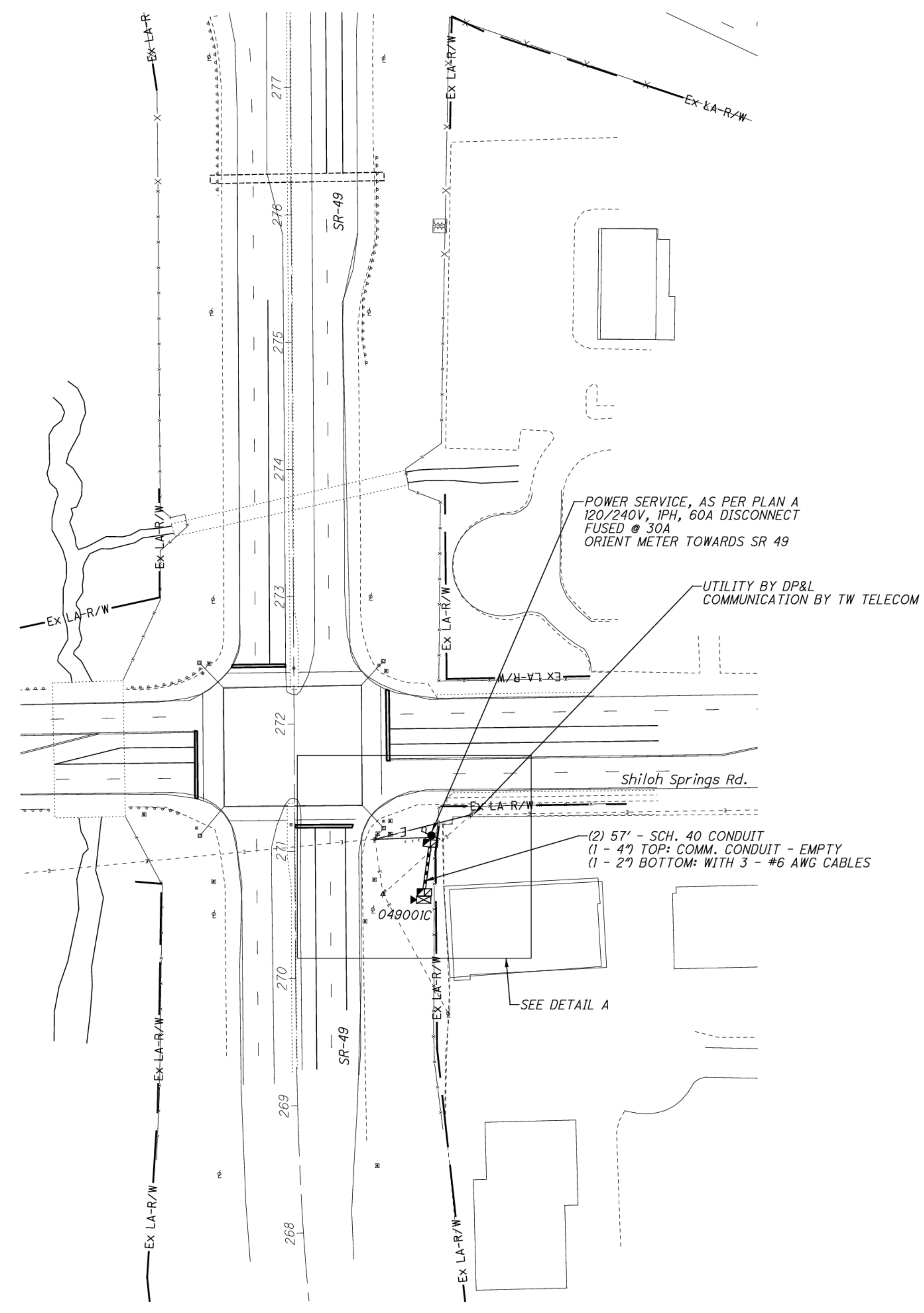
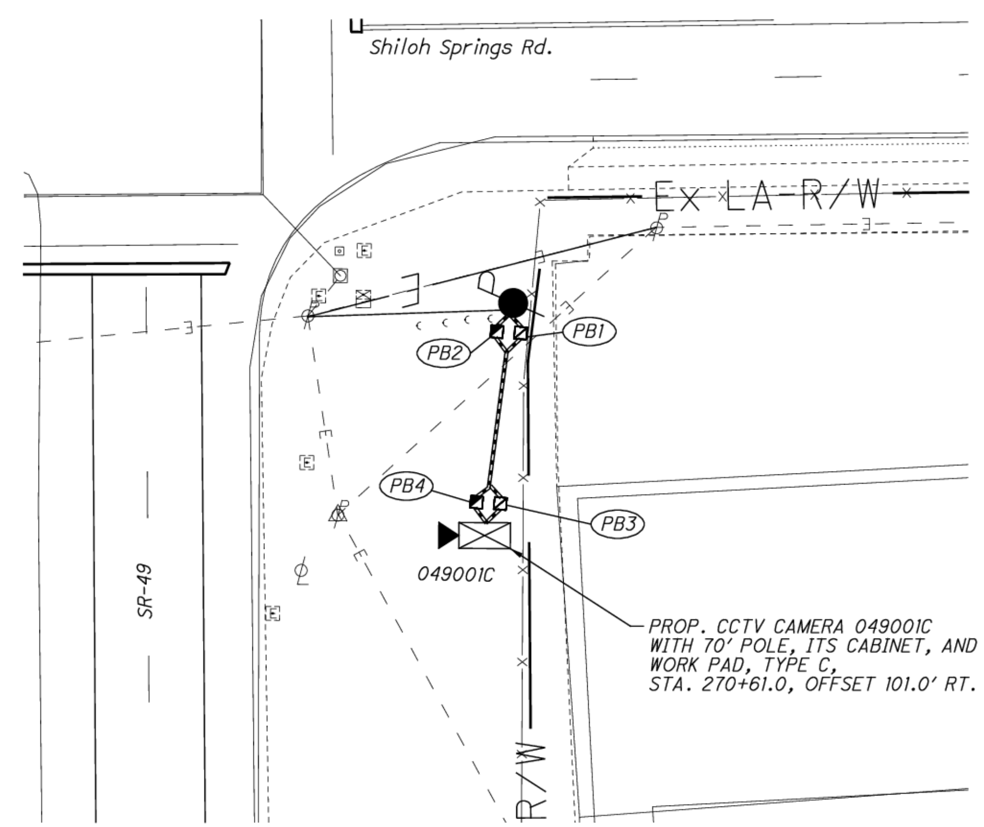


SUB-SUMMARY			
ITEM	TOTAL	UNIT	DESCRIPTION
625	370	FT	NO. 6 AWG 5000 VOLT DISTRIBUTION CABLE
625	60	FT	CONDUIT, 2", 725.05, AS PER PLAN
625	60	FT	CONDUIT, 4", 725.05, AS PER PLAN
625	60	FT	TRENCH, 24" DEEP
625	2	EACH	PULL BOX, 725.08, 18", AS PER PLAN, TYPE A (ELECTRIC)
625	2	EACH	PULL BOX, MISC.: PULL BOX, 725.08, 32", TYPE B (TRAFFIC)
625	1	EACH	GROUND ROD
625	1	EACH	POWER SERVICE, AS PER PLAN A
632	1	EACH	SIGNALIZATION, MISC.: CCTV IP - CAMERA SYSTEM, CISCO VSOM 4.2 COMPATIBLE, UNPRESSURIZED
632	1	EACH	SIGNALIZATION, MISC.: CCTV POLE, TYPE A (70 FT.), WITH LOWERING DEVICE
632	1	EACH	SIGNALIZATION, MISC.: DEVICE WORK PAD, TYPE C
633	1	EACH	CONTROLLER ITEM, MISC.: FIELD EQUIPMENT CABINET, ITS CABINET

REFER TO SHEETS 7-8 FOR PULL BOX AND CONDUIT DETAILS
REFER TO SHEETS 9-10 FOR WORK PAD DETAILS
REFER TO SHEETS 11-15 FOR ELECTRICAL DETAILS
REFER TO SHEET 16 FOR COMMUNICATION SERVICE DETAILS
REFER TO SHEETS 18-19 FOR TYPICAL CCTV CAMERA POLE DETAILS
REFER TO SHEET 20 FOR POLE ORIENTATION CHART
REFER TO SHEET 114 FOR COMMUNICATIONS PLAN OVERVIEW
REFER TO SHEET 115 FOR FIELD CABINET LAYOUT

PB1 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 271+5.5, 106.5' RT.
PB2 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 271+5.5, 106.5' RT.
PB3 - PROP. PULL BOX, 725.08: 18", TYPE A, STA. 270+67.0, 101.5' RT.
PB4 - PROP. PULL BOX, 725.08: 32", TYPE B, STA. 270+67.0, 101.5' RT.

DETAIL A - NOT TO SCALE

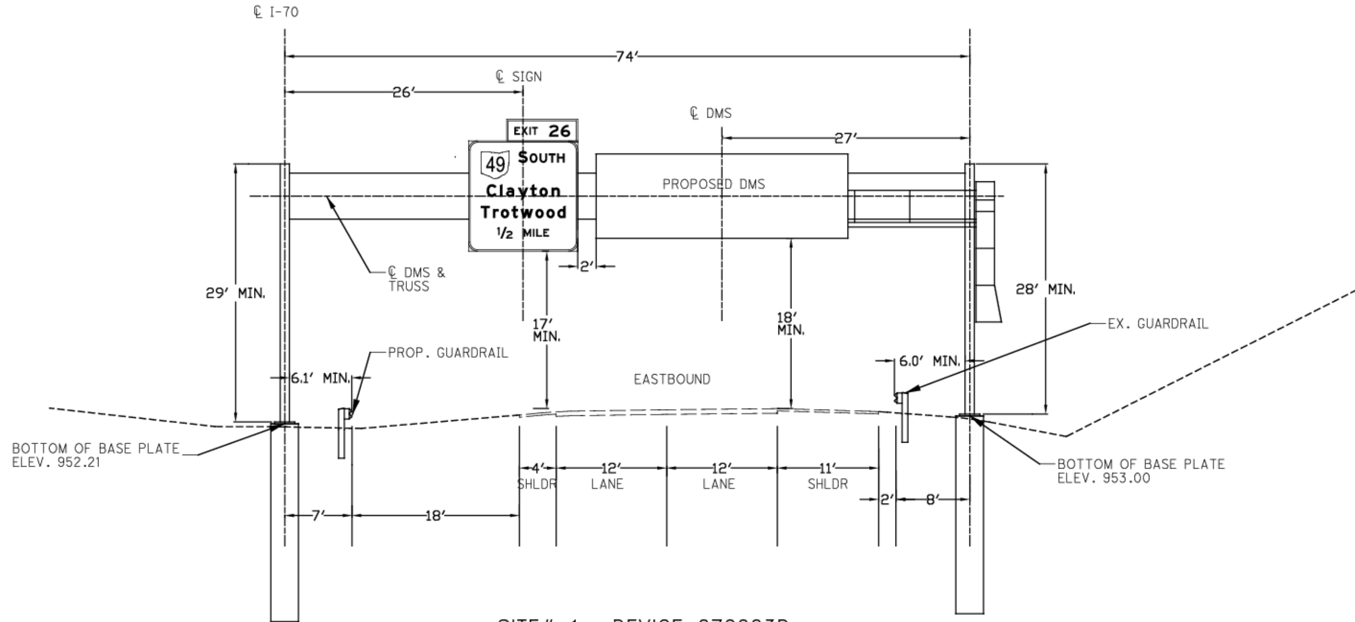


HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED RTM
CHECKED MJH

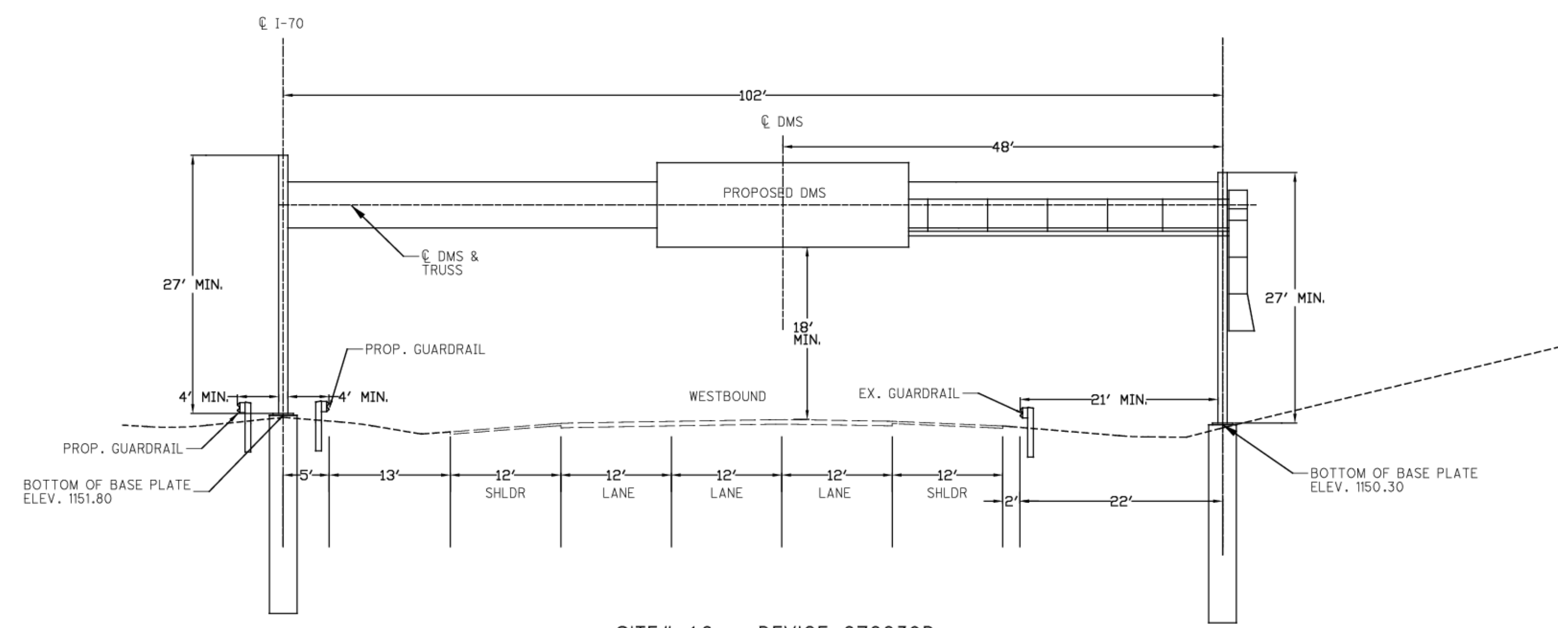
SITE PLAN #57 - MOT-49-5.29
SR-49 & SHILOH SPRINGS RD

VAR-Dayton Springfield Freeway Management System



SITE# 1- DEVICE 070003D

I-70 EASTBOUND
STA. 397+21.0
PROP. STRUCTURE: ODOT DETAIL SHEET DMS SPAN - 80'
OVERHEAD SIGN SUPPORT, MISC.: DMS TRUSS SUPPORT, 80' MAXIMUM
CO-LOCATE NEW STATIC SIGN ON TRUSS, SEE SPECIAL PROVISIONS, SECTION 3.12
PROP. E1-H5 SIGN SIZE: 20 SQ FT
PROP. E1-H1 SIGN SIZE: 144 SQ FT
FOR PLAN SHEET SEE SHEETS 43 AND 44



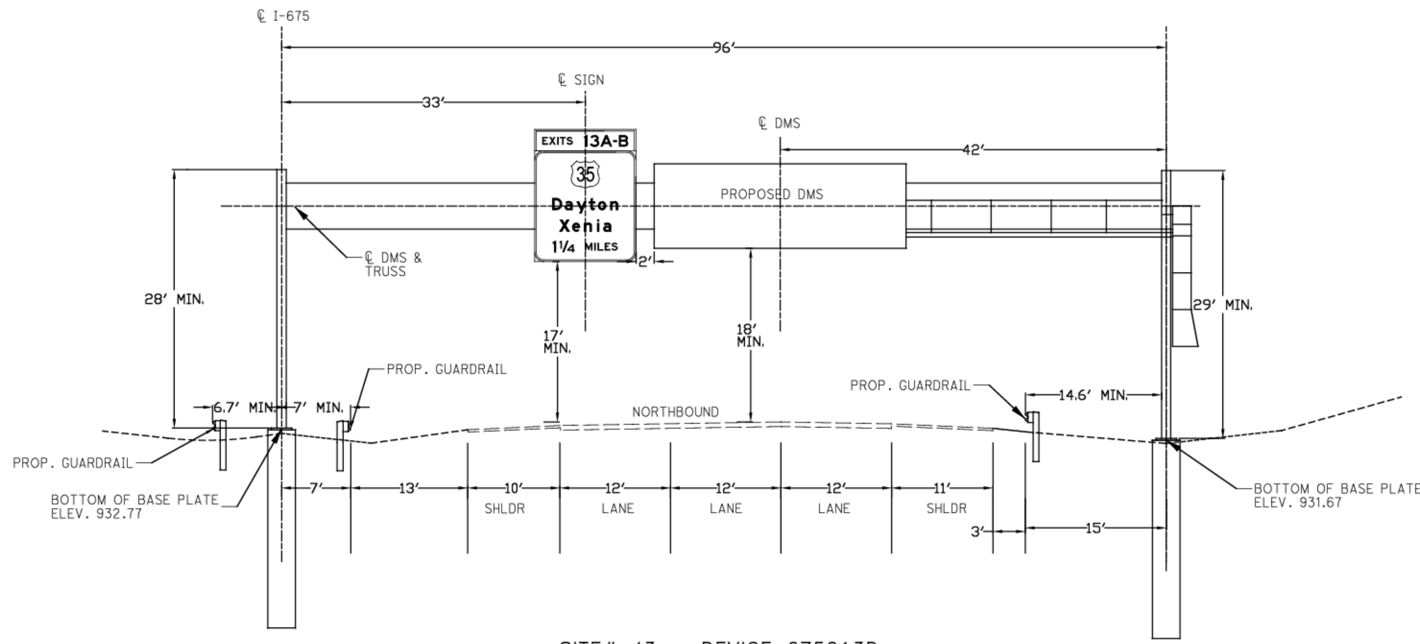
SITE# 16 - DEVICE 070039D

I-70 WESTBOUND
STA. 1234+70.0
PROP. STRUCTURE: ODOT DETAIL SHEET DMS SPAN - 150'
OVERHEAD SIGN SUPPORT, MISC.: DMS TRUSS SUPPORT, 81-150' MAXIMUM
FOR PLAN SHEET SEE SHEETS 60 AND 61

CALCULATED RTM
CHECKED MJH

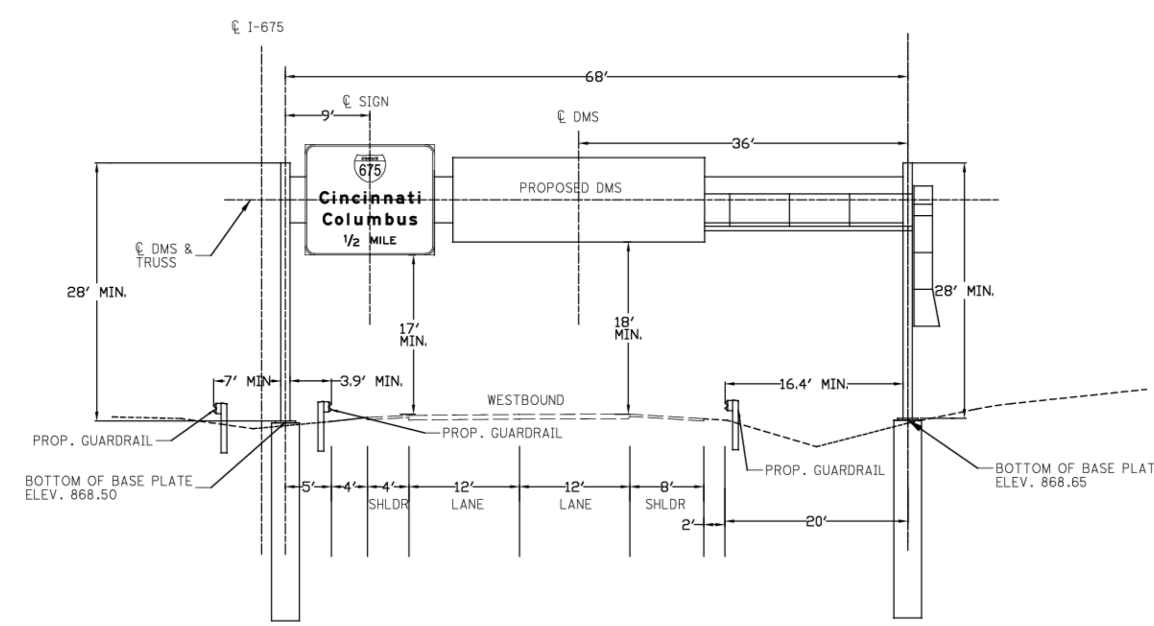
DYNAMIC MESSAGE SIGN PROFILES
DEVICES 070003D & 070039D

VAR-Dayton Springfield
Freeway Management
System



SITE# 43 – DEVICE 675013D

I-675 NORTHBOUND
STA. 334+70.5
PROP. STRUCTURE: ODOT DETAIL SHEET DMS SPAN – 150'
OVERHEAD SIGN SUPPORT, MISC.: DMS TRUSS SUPPORT, 81–150' MAXIMUM
CO-LOCATE NEW STATIC SIGN ON TRUSS, SEE SPECIAL PROVISIONS, SECTION 3.12
PROP. E1-H5 SIGN SIZE: 28 SQ FT
PROP. E1-H1 SIGN SIZE: 132 SQ FT
FOR PLAN SHEET SEE SHEETS 94 AND 95



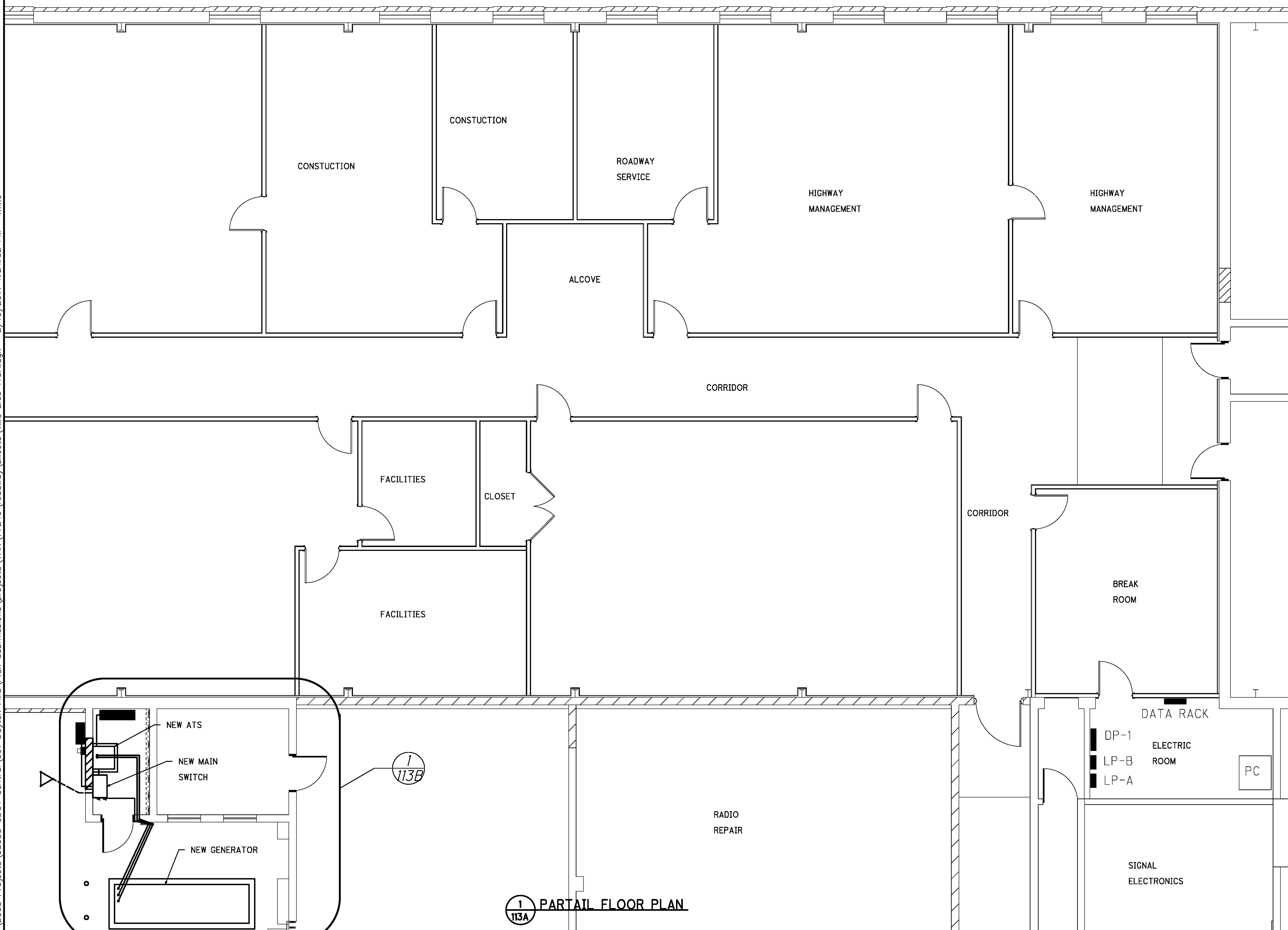
SITE# 54 – DEVICE 035017D

US 35 WESTBOUND
STA. 81+64.5
PROP. STRUCTURE: ODOT DETAIL SHEET DMS SPAN – 80'
OVERHEAD SIGN SUPPORT, MISC.: DMS TRUSS SUPPORT, 80' MAXIMUM
CO-LOCATE NEW STATIC SIGN ON TRUSS, SEE SPECIAL PROVISIONS, SECTION 3.12
PROP. E1-H1 SIGN SIZE: 168 SQ FT
FOR PLAN SHEET SEE SHEETS 107 AND 108

CALCULATED RTM CHECKED MJH

DYNAMIC MESSAGE SIGN PROFILES DEVICES 675013D & 035017D

VAR-Dayton Springfield Freeway Management System



1
113A
PARTAIL FLOOR PLAN

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N

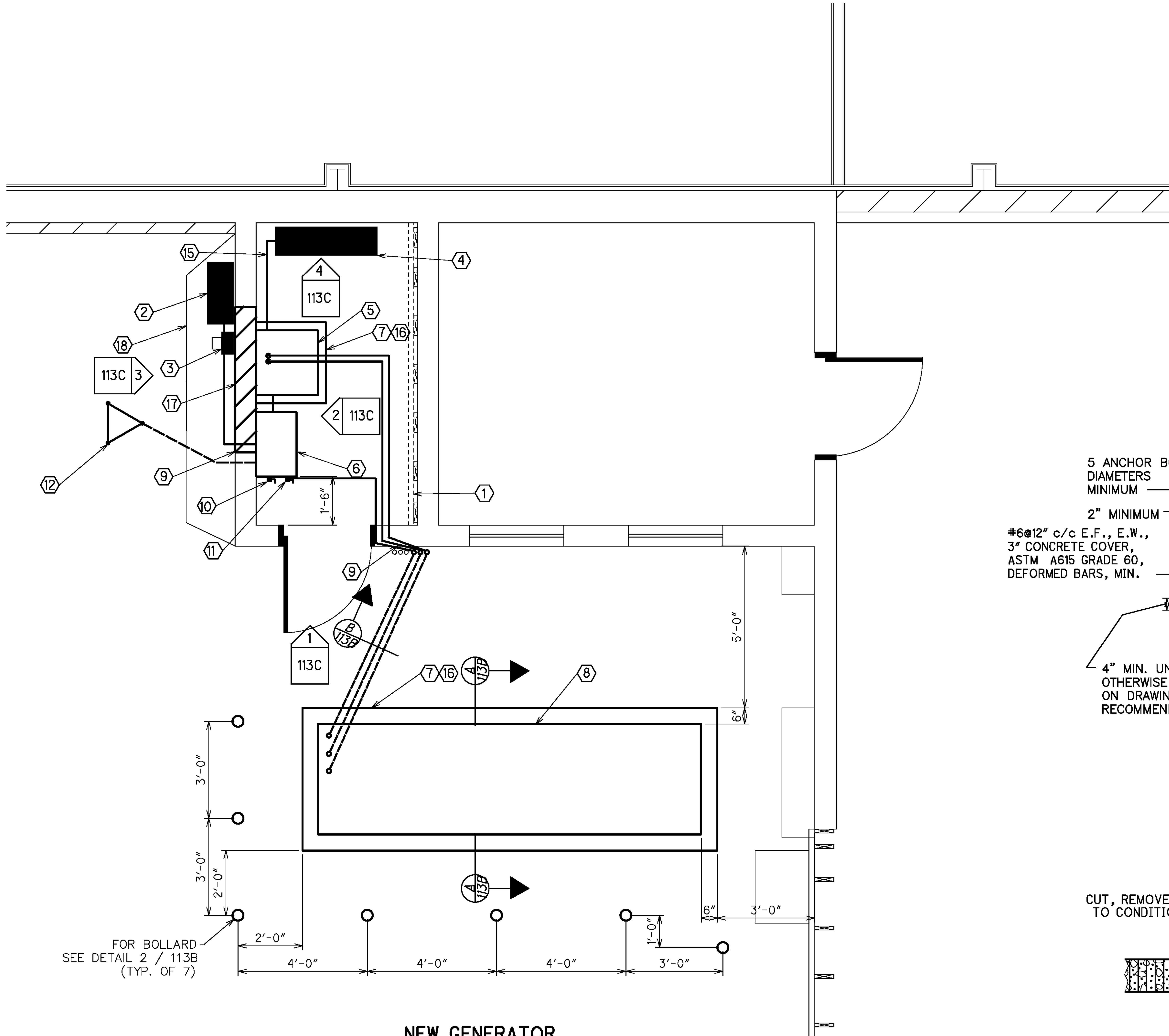
0 2' 4' 8'
HORIZONTAL
SCALE IN FEET

CALCULATED JAH
CHECKED —

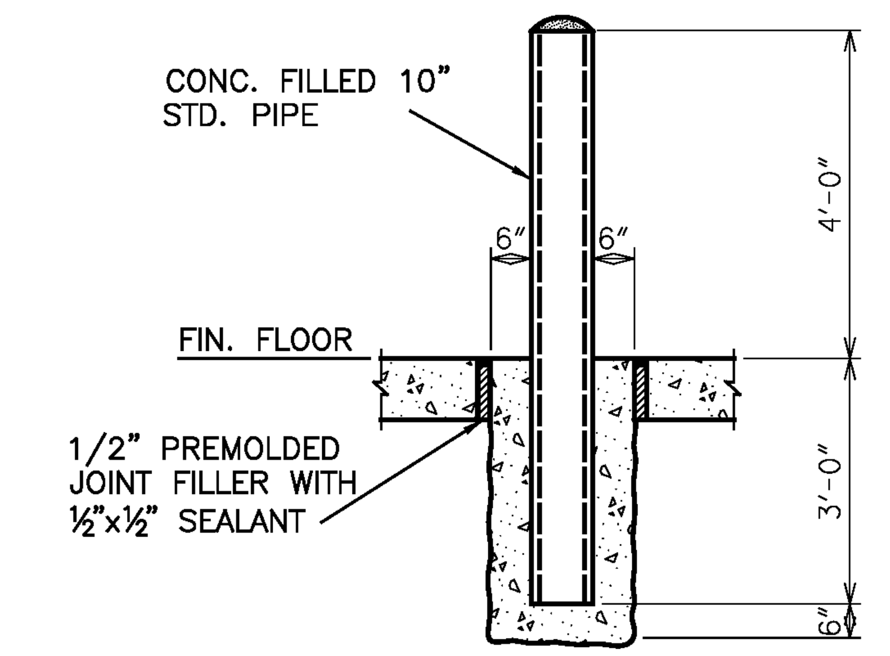
GENERATOR
ELECTRICAL

VAR-Dayton Springfield
Freeway Management
System

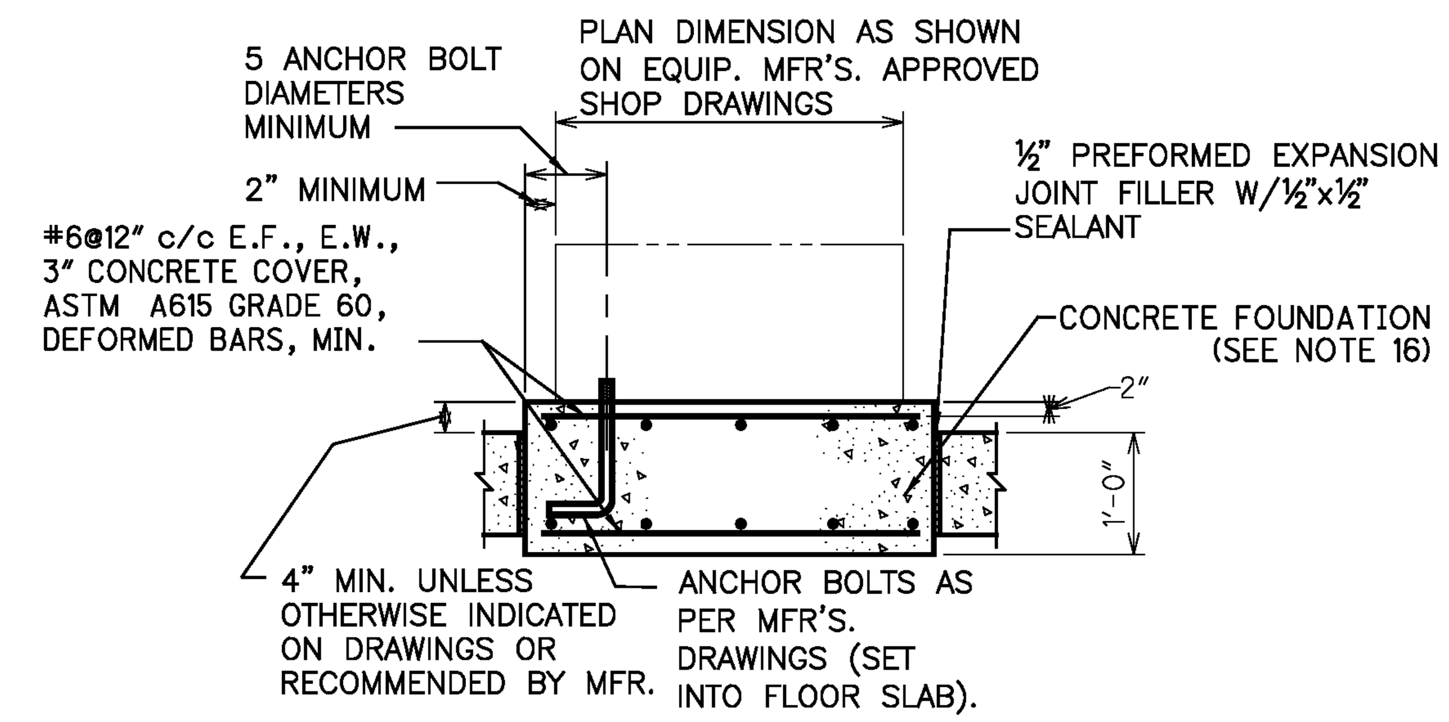
113A
121



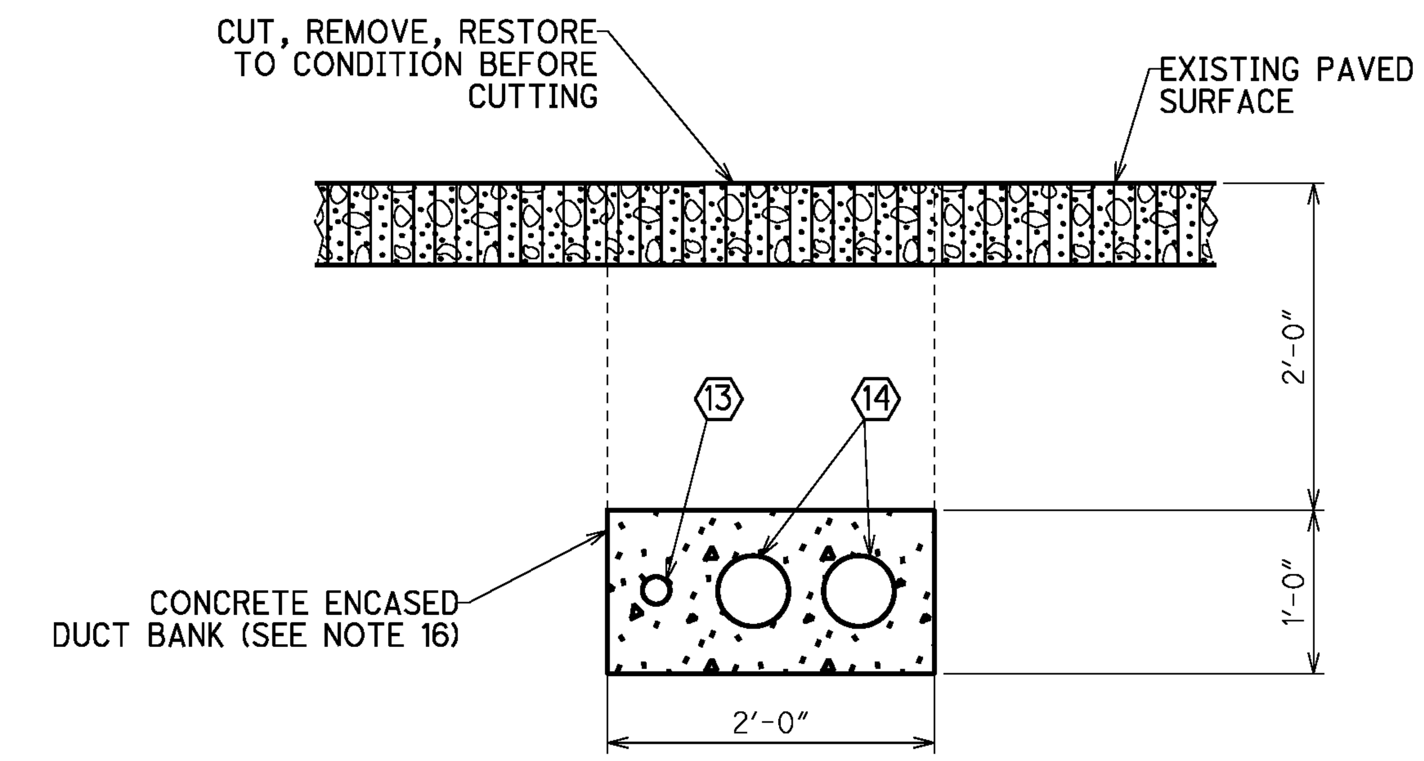
1 / 113A NEW GENERATOR PARTIAL SITE PLAN



2 / 113B DETAIL
SCALE NONE



A / 113B SECTION
SCALE NONE



B / 113B SECTION
SCALE NONE

CODED NOTES"

1. REMOVE EXISTING WOOD BACKBOARD.
2. EXISTING C/T CABINET TO REMAIN.
3. EXISTING UTILITY METER CABINET TO REMAIN.
4. EXISTING MAIN DISTRIBUTION PANEL "MDP" TO REMAIN.
5. NEW AUTOMATIC TRANSFER SWITCH.
6. NEW ELECTRIC SERVICE MAIN DISCONNECT SWITCH.
7. NEW CONCRETE MOUNTING PAD.
8. NEW NATURAL GAS GENERATOR.
9. SEAL CONDUIT PENETRATIONS THROUGH EXISTING WALL WITH MORTAR.
10. FUSIBLE SAFETY SWITCH FOR TVSS.
11. FUSIBLE SAFETY SWITCH FOR GENERATOR BLOCK HEATER AND BATTERY CHARGER.
12. LOCATION OF SUPPLEMENTAL GROUNDING SYSTEM TRIAD.
13. NEW 2" SCH. 40 PVC.
14. NEW 4" SCH. 40 PVC.
15. NEW 6"x6" WIREWAY WITH SCREW COVER.
16. ALL CONCRETE TO CONSIST OF 4000 PSI, 4% TO 8% AIR ENTRAINMENT CONCRETE. CONTRACTOR PROVIDE MIX DESIGN (SUBMIT MIX DESIGN IN ACCORDANCE WITH ACI 301 FOR REVIEW AND APPROVAL).
17. REMOVE EXISTING WINDOW COMPLETE. INFILL MASONRY OPENING WITH 8" CMU. MATCH COURSING. PAINT NEW CMU W/BLOCK FILL, SCRAPE EXISTING WALL CLEAN AND APPLY 2 COATS EXTERIOR LATEX PAINT TO LIMITS SHOWN.
18. PAINT WALL TO LIMITS SHOWN.

HORIZONTAL SCALE IN FEET

CALCULATED JAH
CHECKED

GENERATOR ELECTRICAL

VAR-Dayton Springfield Freeway Management System

113B
121

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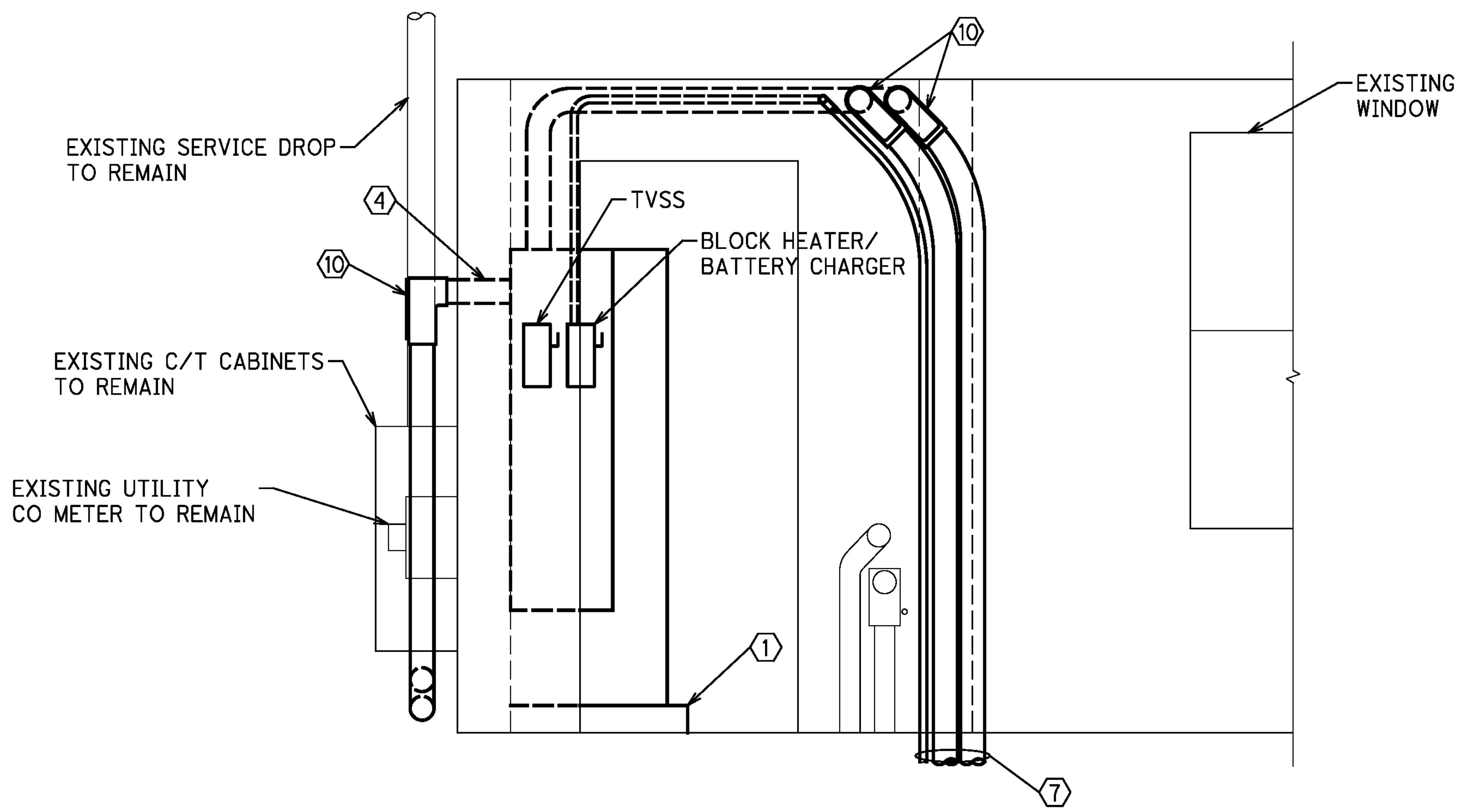
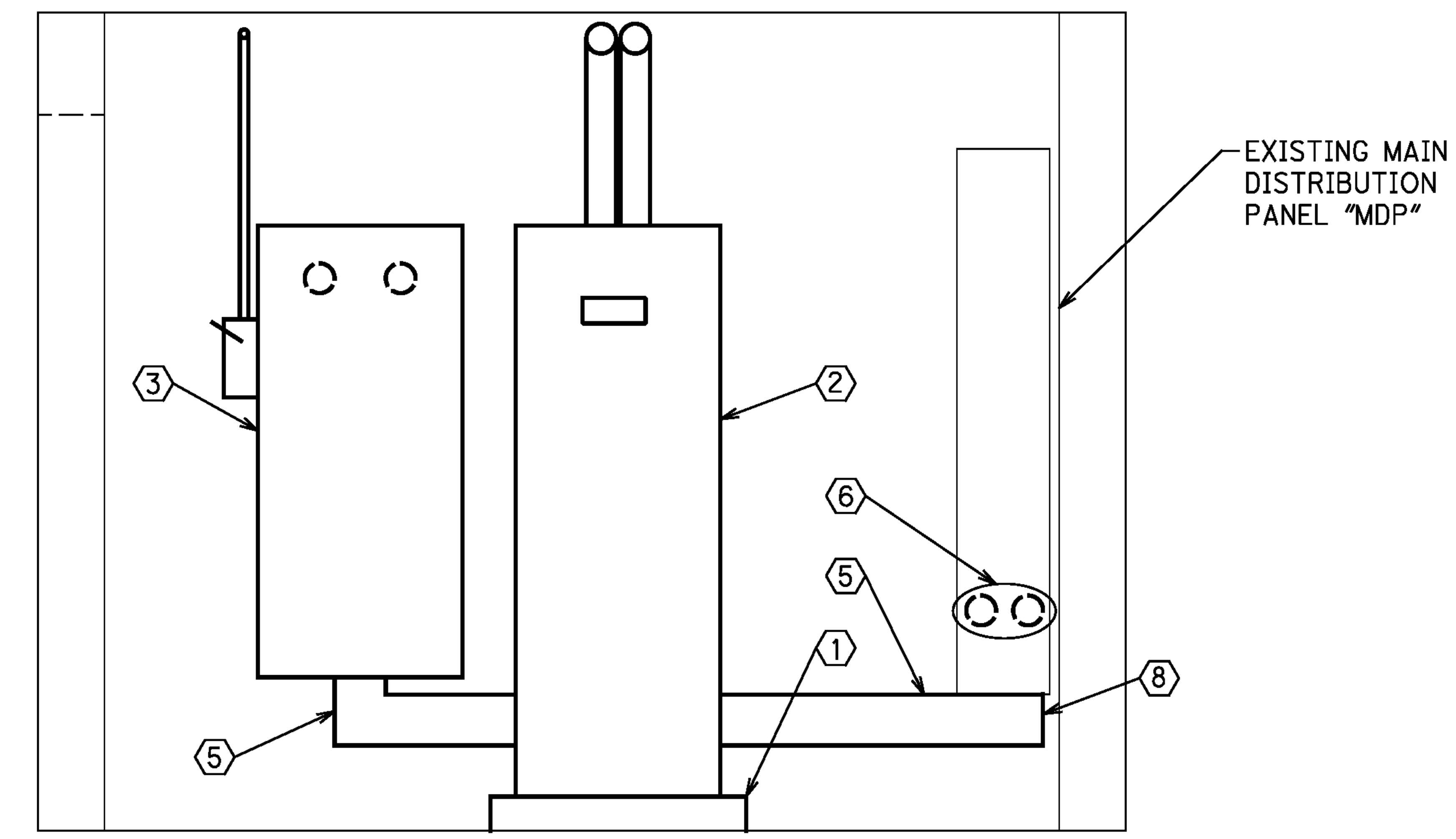
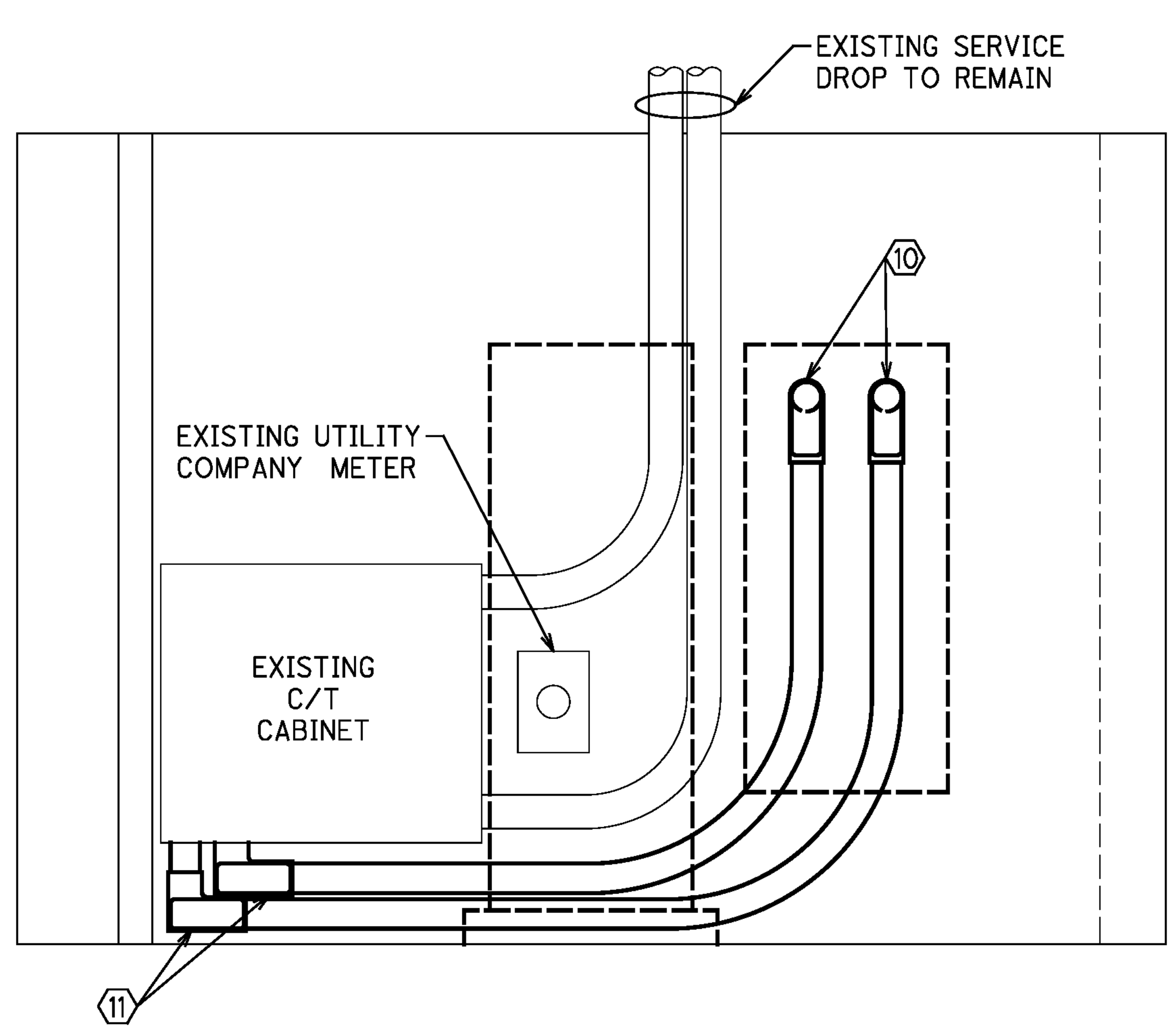


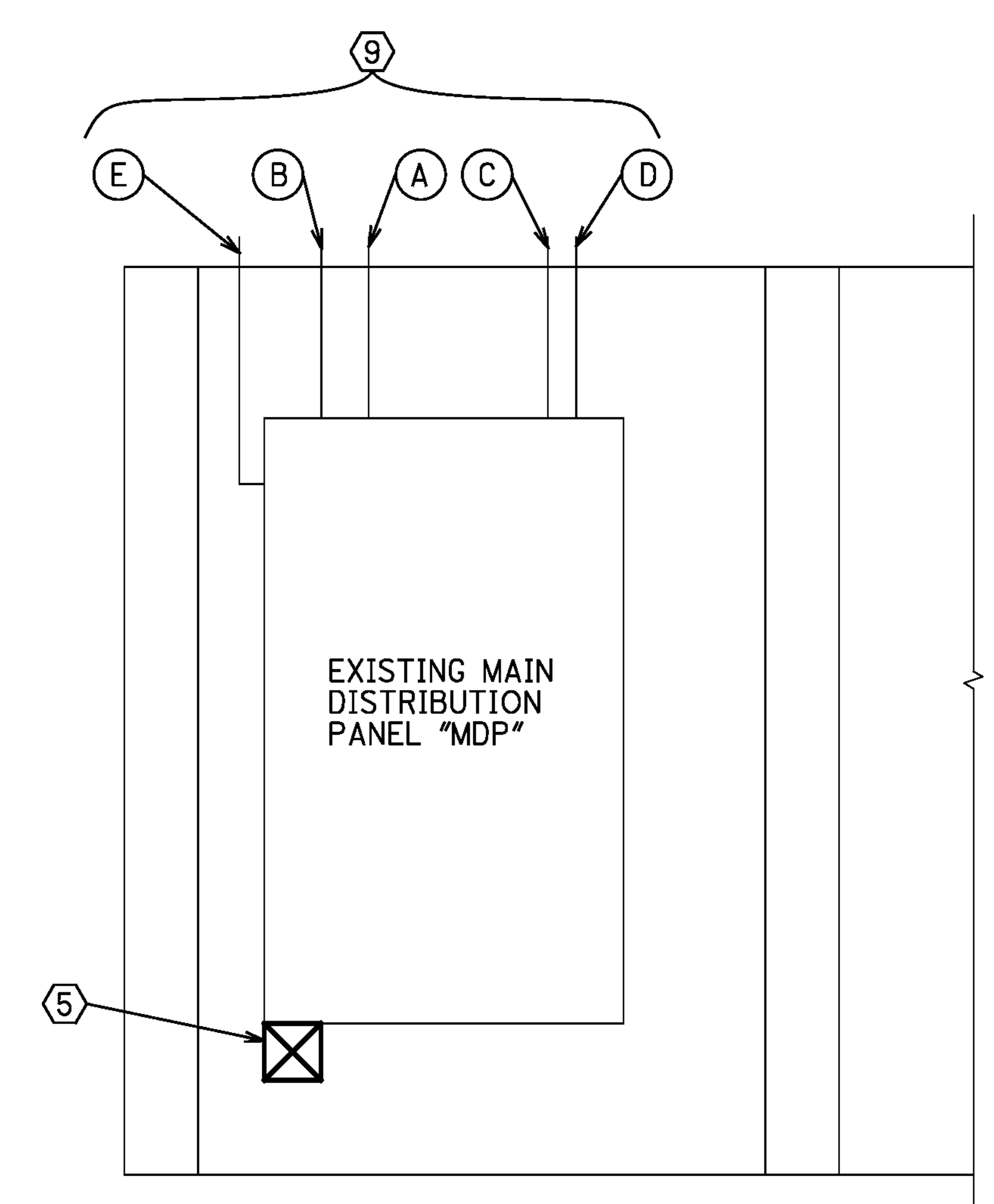
1 / 113B ELEVATION



2 / 113B ELEVATION



3 / 113B ELEVATION



4 / 113B ELEVATION

GENERAL NOTES:

1 REFER TO SHEET 113D FOR ONE LINE DIAGRAM.

CODED NOTES:

1 NEW 4" HIGH CONCRETE PAD.

2 NEW ATS WITH DIGITAL METER.

3 NEW 600A, 3-POLE SERVICE DISCONNECT SWITCH.

4 SEAL CONDUIT PENETRATION THROUGH EXISTING WALL WITH MORTAR.

5 6"x6" WIREWAY WITH SCREW COVER.

6 CLOSE EXISTING OPENINGS IN BOTH THE EXTERIOR BLOCK WALL AND THE PANELBOARD.

7 PVC TO RGS COUPLING PRIOR TO LONG SWEEP RGS 90 DEGREE ELBOW.

8 FIELD MODIFY WIREWAY AND/OR SCREW COVER TO ALLOW RECONNECTION OF NEW FEEDERS TO EXISTING PANEL "MDP". PROVIDE NEW PENETRATION INTO PANEL "MDP" AS REQUIRED.

9 SEE SHEET 113D FOR CONDUIT TAG IDENTIFICATION.

10 NEW 4", 90 DEGREE PULL CONDUIT OUTLET BODY (CROUSE-HINDS TYPE #LB910900, OR EQUAL).

11 NEW 3½" FORM 7 CONDUIT OUTLET BODY (CROUSE-HINDS #LL97, OR EQUAL.)

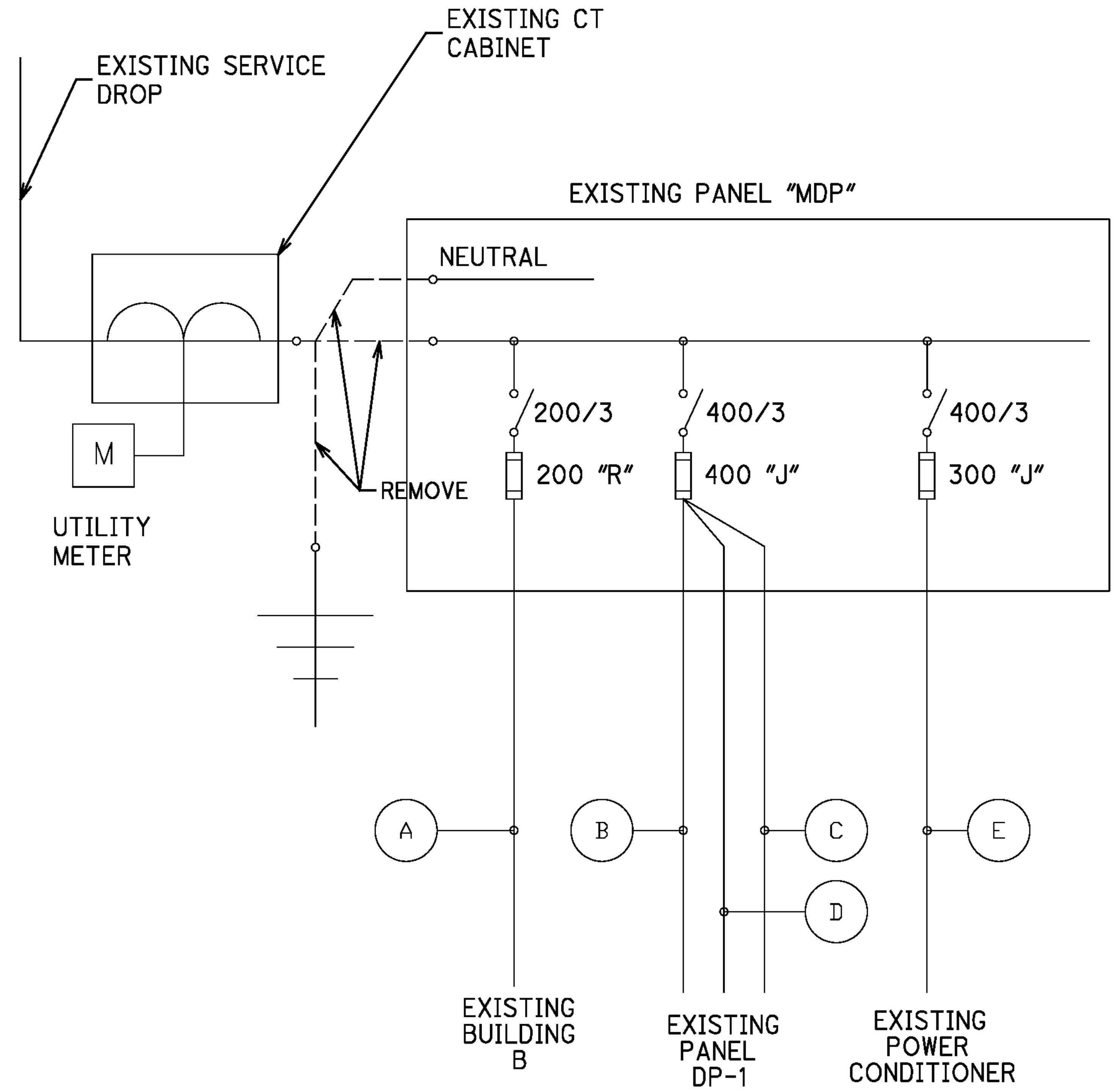
N

HORIZONTAL SCALE IN FEET 0 1' 2' 4'

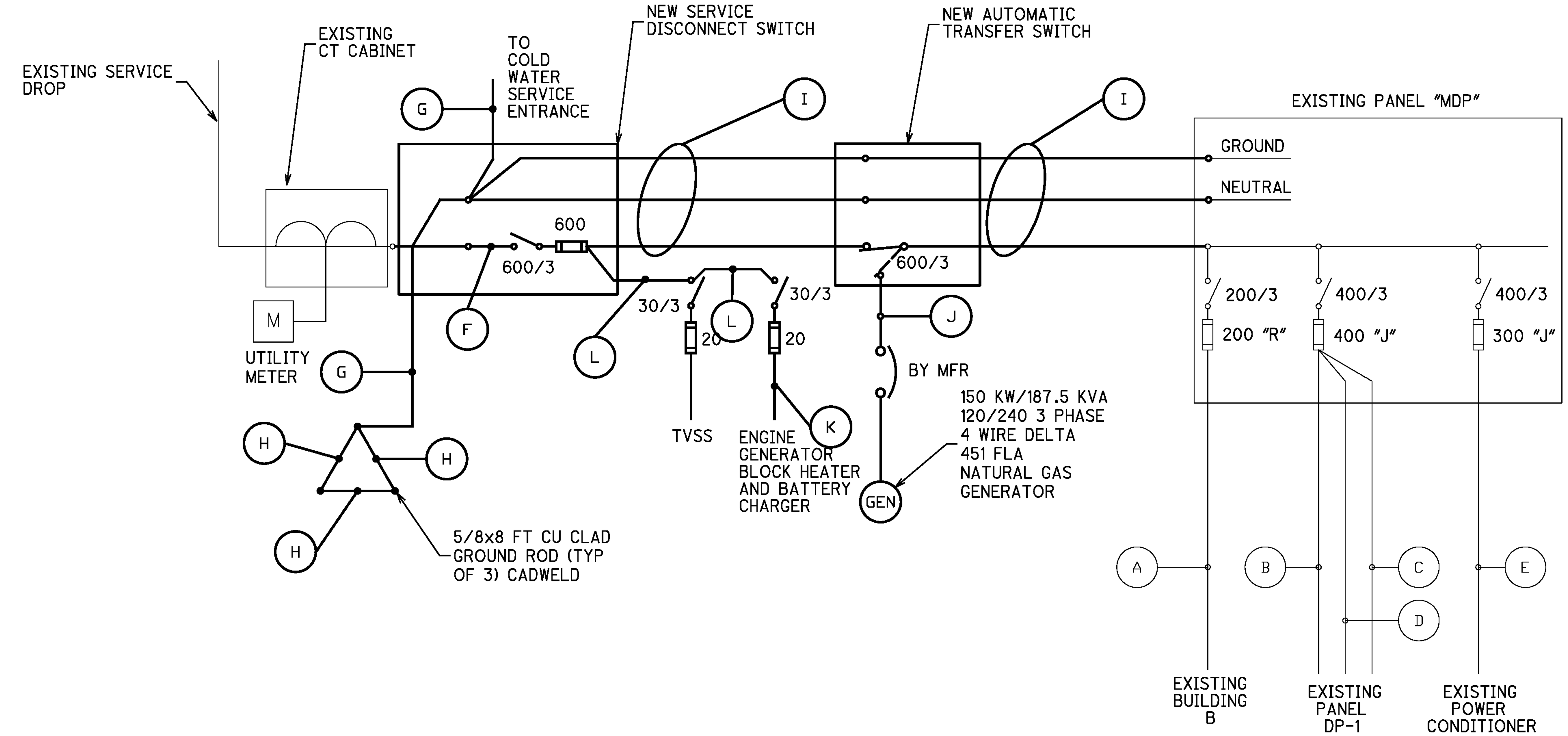
CALCULATED JAH
CHECKED —

GENERATOR ELECTRICAL

VAR-Dayton Springfield Freeway Management System



1 EXISTING ONE-LINE DIAGRAM



2 REVISED ONE-LINE DIAGRAM

GENERAL NOTES:

1 ALL ITEMS SHOWN WITH A "DARK" LINE WEIGHT ARE NEW AND TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR. ALL ITEMS WITH A "LIGHT" LINE WEIGHT ARE EXISTING TO REMAIN AND BE REUSED.

	CABLE LEGEND
A	2" W/3 - #3/0 (A,B,C).
B	2" W/1 - 250 KCMIL & 1 - 250 KCMIL (C,N).
C	3" W/1 - 250 KCMIL & 1 - 250 KCMIL (A,N).
D	3" W/1 - 500 KCMIL & 1 - #3 GND (B,G).
E	3" W/3 - 250 KCMIL & 1 - 250 KCMIL (A,B,C,N).
F	2 - 3½" RGS E/W 4 - 350 KCMIL.
G	2" PVC W/1 - #3/0 GND.
H	#3/0 BARE COPPER.
I	6"x6" WIREWAY W/8 - 350 KCMIL & 1 - #1 GROUND.
J	2 - 4" RGS E/W 4 - 350 KCMIL & 1 - #1/0 GND.
K	1 - 2" RGS W/4 - #10 & 1 - #10 GND.
L	4 - #10 & 1 - #10 GND. (NOT MORE THAN 10'-0" TAP)

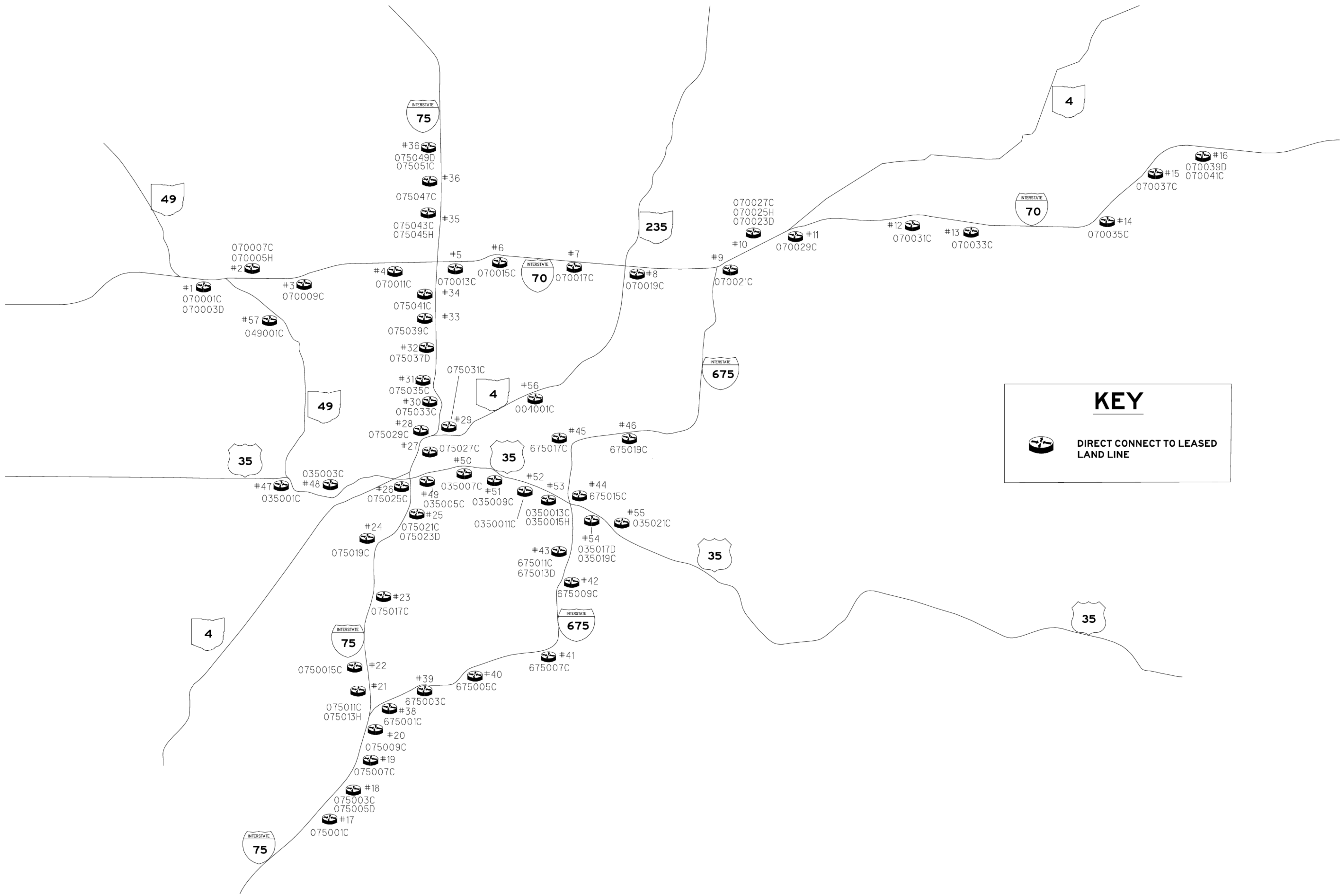
HORIZONTAL SCALE IN FEET 0

CALCULATED JAH
CHECKED

GENERATOR ELECTRICAL

VAR-Dayton Springfield Freeway Management System

113D
121



CALCULATED RTM
CHECKED BRL

COMMUNICATIONS PLAN SYSTEM OVERVIEW

VAR-Dayton Springfield Freeway Management System

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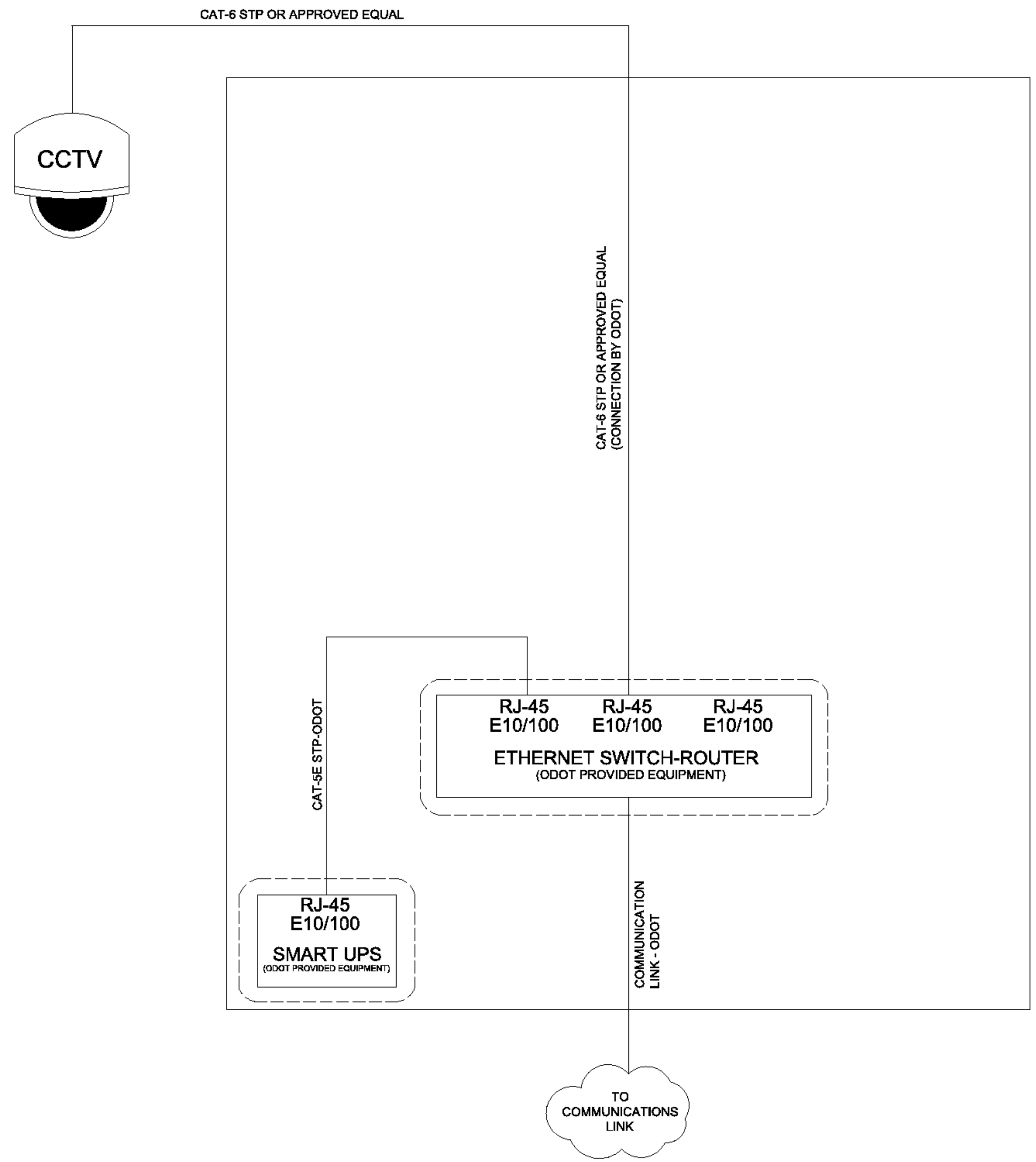
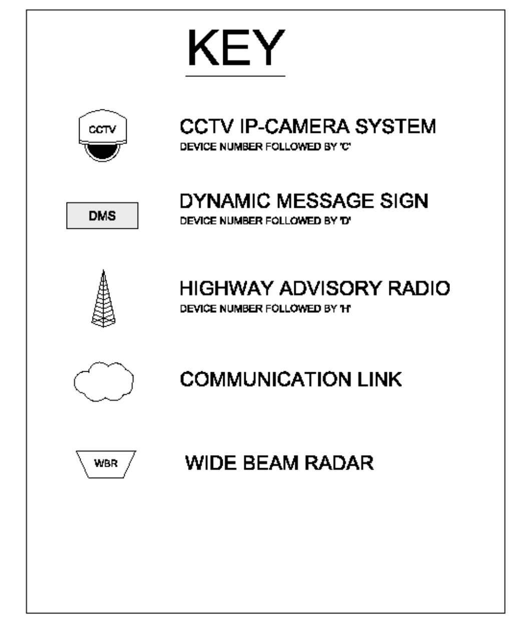
CCTV ONLY LOCATIONS
I-70
SITE #2, 070007C
SITE #4, 070011C
SITE #5, 070013C
SITE #6, 070015C
SITE #7, 070017C
SITE #8, 070019C
SITE #9, 070021C
SITE #11, 070029C
SITE #12, 070031C
SITE #13, 070033C
SITE #14, 070035C
SITE #15, 070037C
I-75
SITE #17, 075001C
SITE #19, 075007C
SITE #20, 075009C
SITE #22, 075015C
SITE #23, 075017C
SITE #24, 075019C
SITE #26, 075025C
SITE #28, 075029C
SITE #29, 075031C
SITE #30, 075033C
SITE #33, 075039C
SITE #34, 075041C
SITE #36, 075047C
I-675
SITE #38, 675001C
SITE #39, 675003C
SITE #40, 675005C
SITE #41, 675007C
SITE #42, 675009C
SITE #44, 675015C
SITE #45, 675017C
SITE #46, 675019C
US-35
SITE #47, 035001C
SITE #50, 035007C
SITE #51, 035009C
SITE #52, 035011C
SITE #55, 035021C
SR-4
SITE #56, 004001C
SR-49
SITE #57, 049001C





NOTE

1. ODOT TO INSTALL ALL CISCO PRODUCTS, TERMINAL SERVERS, UPS, AND ALL ASSOCIATED CABLING THAT CONNECTS ODOT PROVIDED EQUIPMENT.

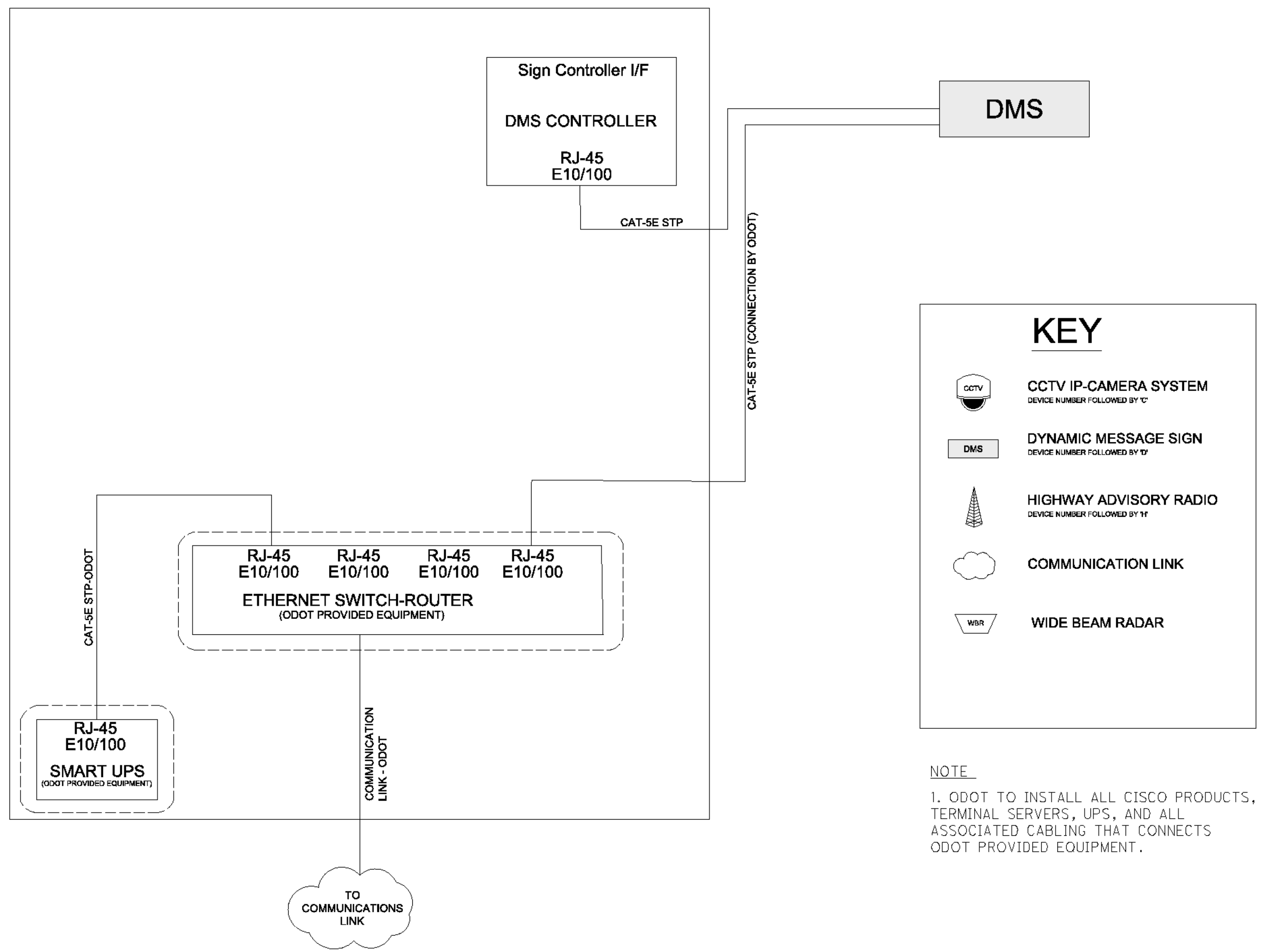
NOT TO SCALE

CALCULATED RTM
CHECKED MJH

TYPICAL FIELD EQUIPMENT CABINET
CCTV ONLY

VAR-Dayton Springfield Freeway Management System

DMS ONLY LOCATIONS
I-75
SITE #32, 075037D



NOTE

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NOT TO SCALE

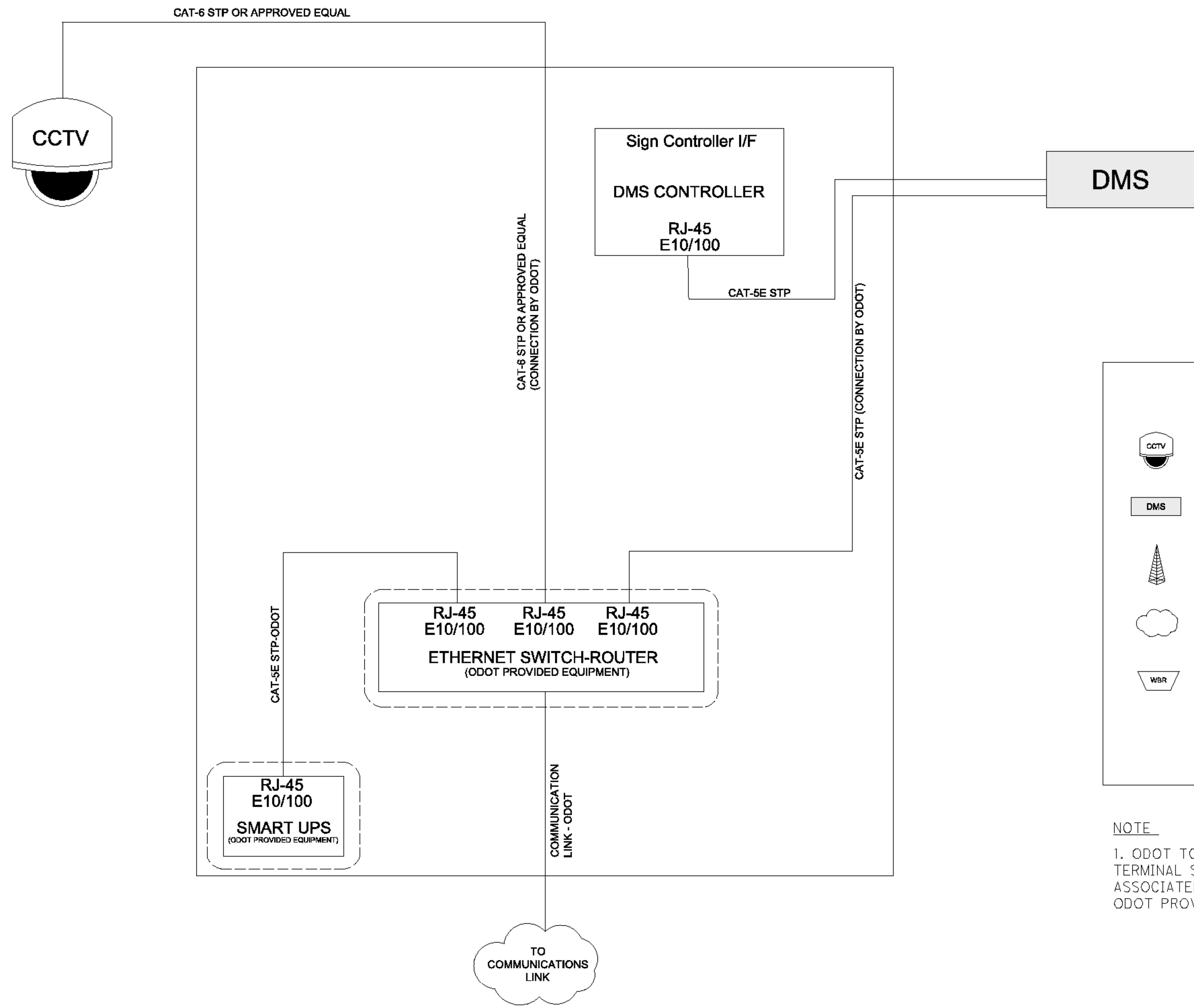
TYPICAL FIELD EQUIPMENT CABINET DMS ONLY

VAR-Dayton Springfield Freeway Management System

CALCULATED RTM
CHECKED MJH

TYPICAL FIELD EQUIPMENT CABINET CCTV & DMS

CO-LOCATED CCTV & DMS LOCATIONS
I-70
SITE #1, 070001C & 070003D
I-75
SITE #18, 075003C & 075005D



KEY

- CCTV IP-CAMERA SYSTEM — DEVICE NUMBER FOLLOWED BY 'C'
- DYNAMIC MESSAGE SIGN — DEVICE NUMBER FOLLOWED BY 'D'
- HIGHWAY ADVISORY RADIO — DEVICE NUMBER FOLLOWED BY 'H'
- COMMUNICATION LINK
- WIDE BEAM RADAR

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NOT TO SCALE

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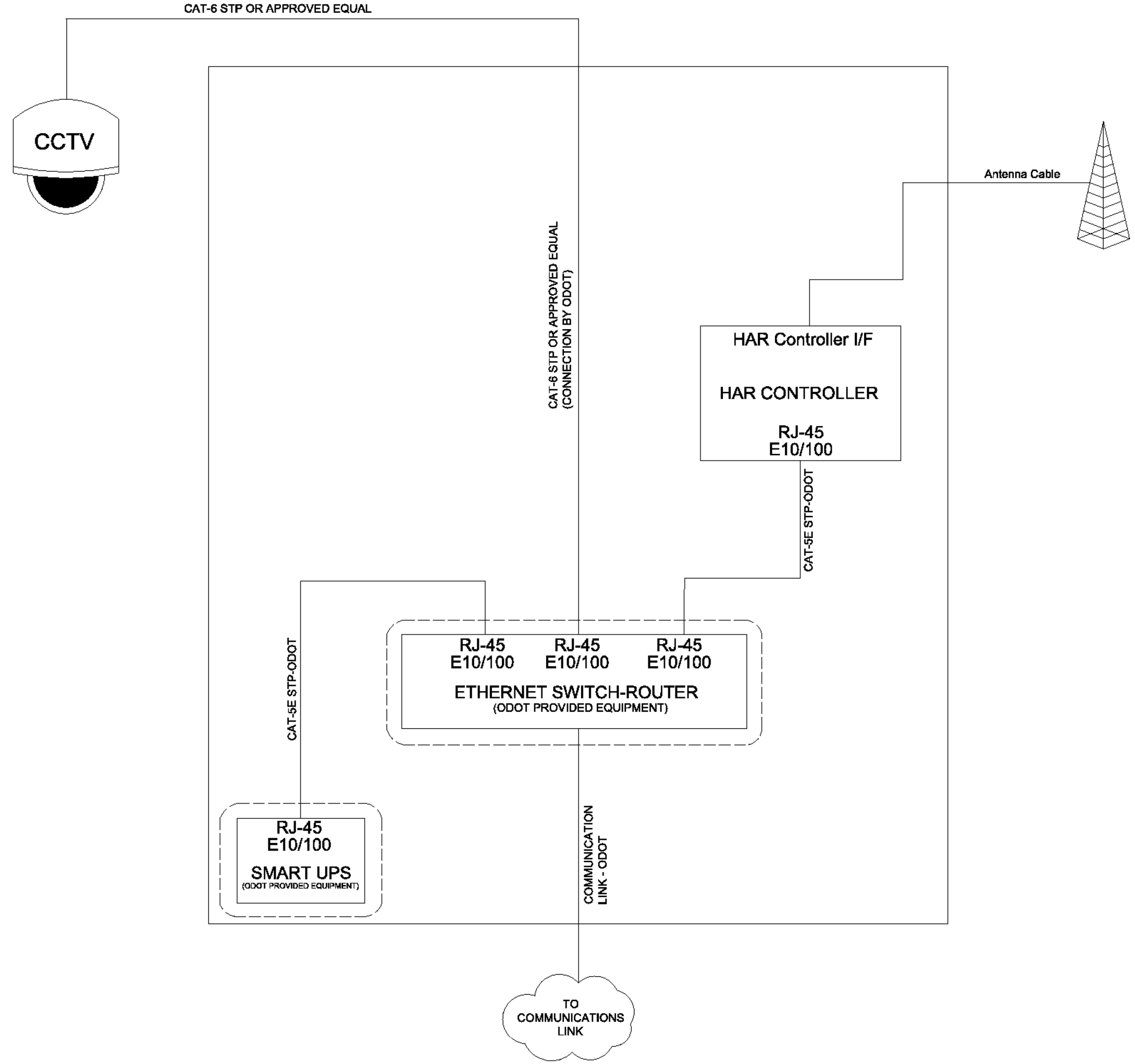
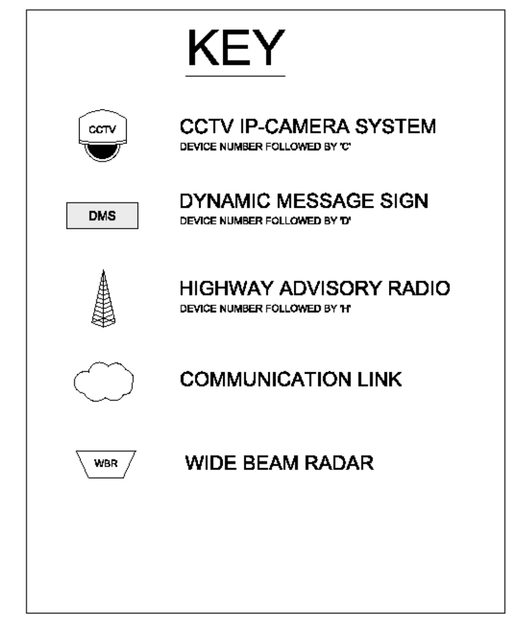
CALCULATED RTM CHECKED MJH
VAR-Dayton Springfield Freeway Management System

TYPICAL FIELD EQUIPMENT CABINET CCTV & HAR



CO-LOCATED CCTV & HAR LOCATIONS
I-75
SITE #21, 075011C & 075013H
SITE #35, 075043C & 075045H
US-35
SITE #53, 035013C & 035015H



NOTE

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NOT TO SCALE

CALCULATED RTM
CHECKED MJH

VAR-Dayton Springfield Freeway Management System

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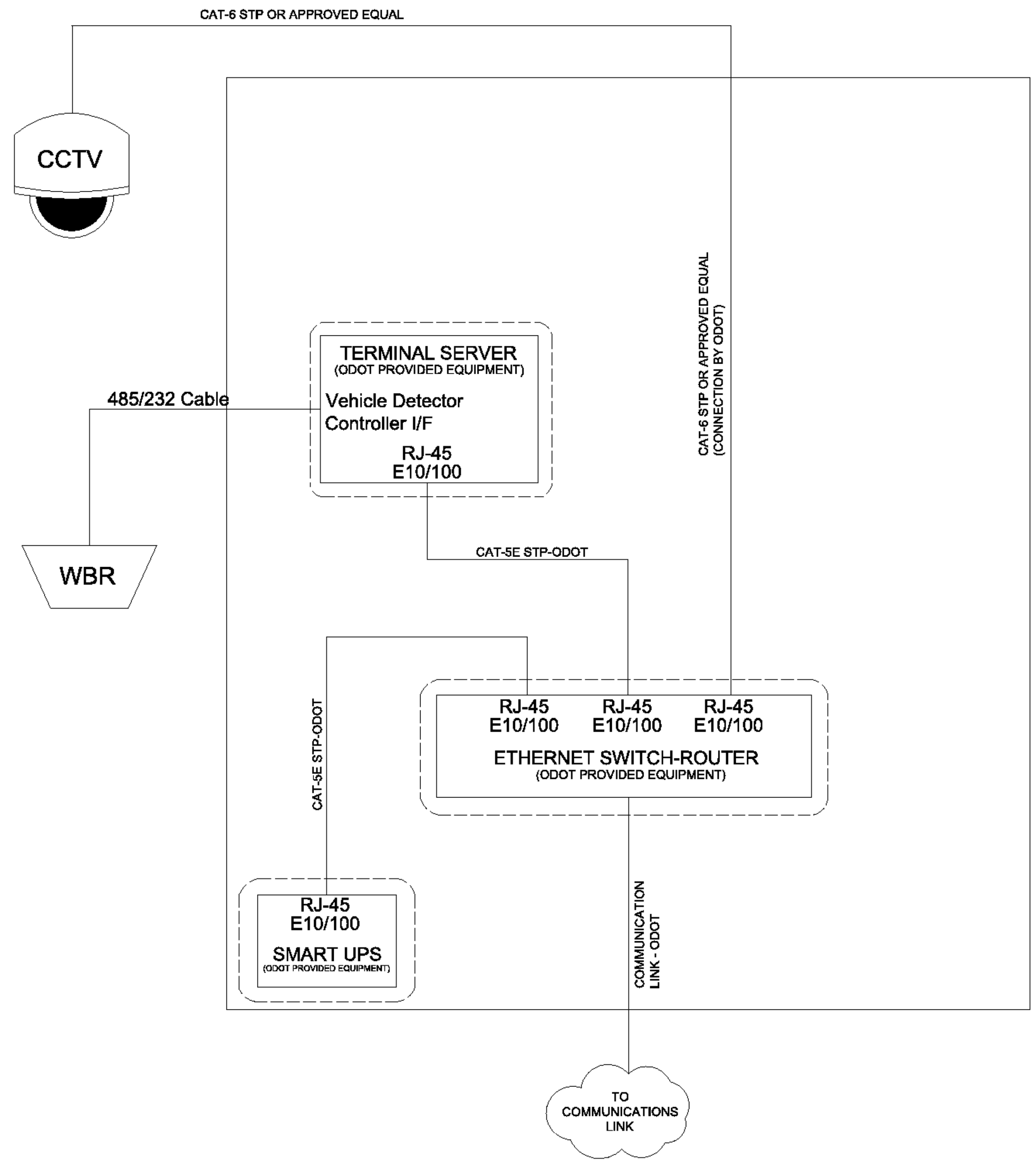
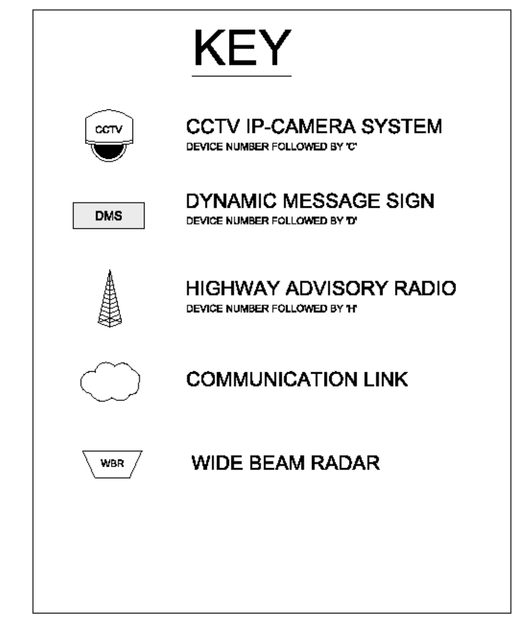
TYPICAL FIELD EQUIPMENT CABINET
CCTV & VDU





CO-LOCATED CCTV & VDU LOCATIONS
I-70
SITE #3, 070009C
I-75
SITE #31, 075035C
US-35
SITE #48, 035003C
SITE #49, 035005C

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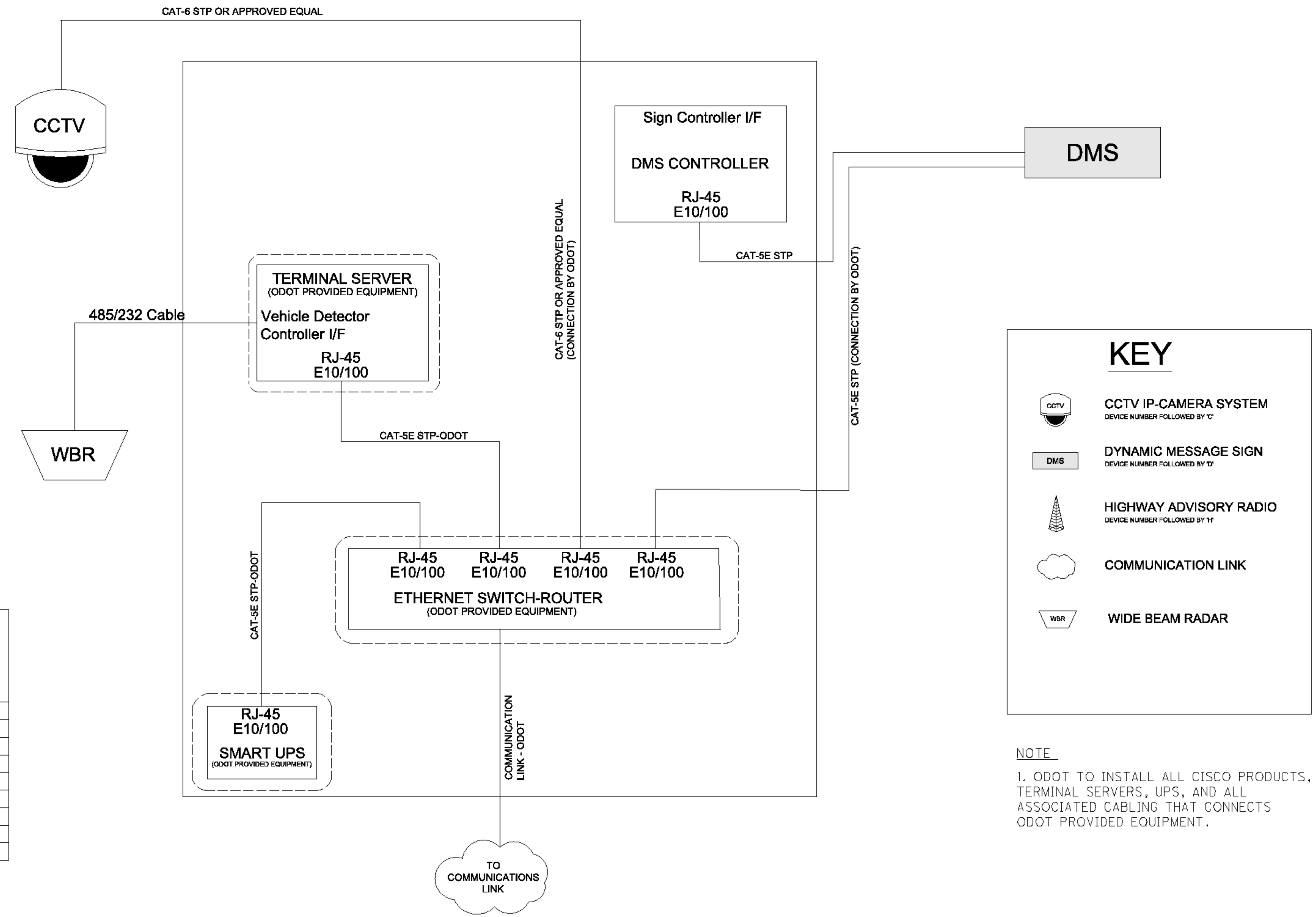
NOT TO SCALE

VAR-Dayton Springfield Freeway Management System

CALCULATED RTM
CHECKED MJH

TYPICAL FIELD EQUIPMENT CABINET CCTV, DMS, & VDU



CO-LOCATED CCTV, DMS, & VDU LOCATIONS
I-70
SITE #16, 070039D & 070041C
I-75
SITE #25, 075021C & 075023D
SITE #37, 075049D & 075051C
I-675
SITE #43, 675011C & 675013D
US 35
SITE #54, 035017D & 035019C

NOTE

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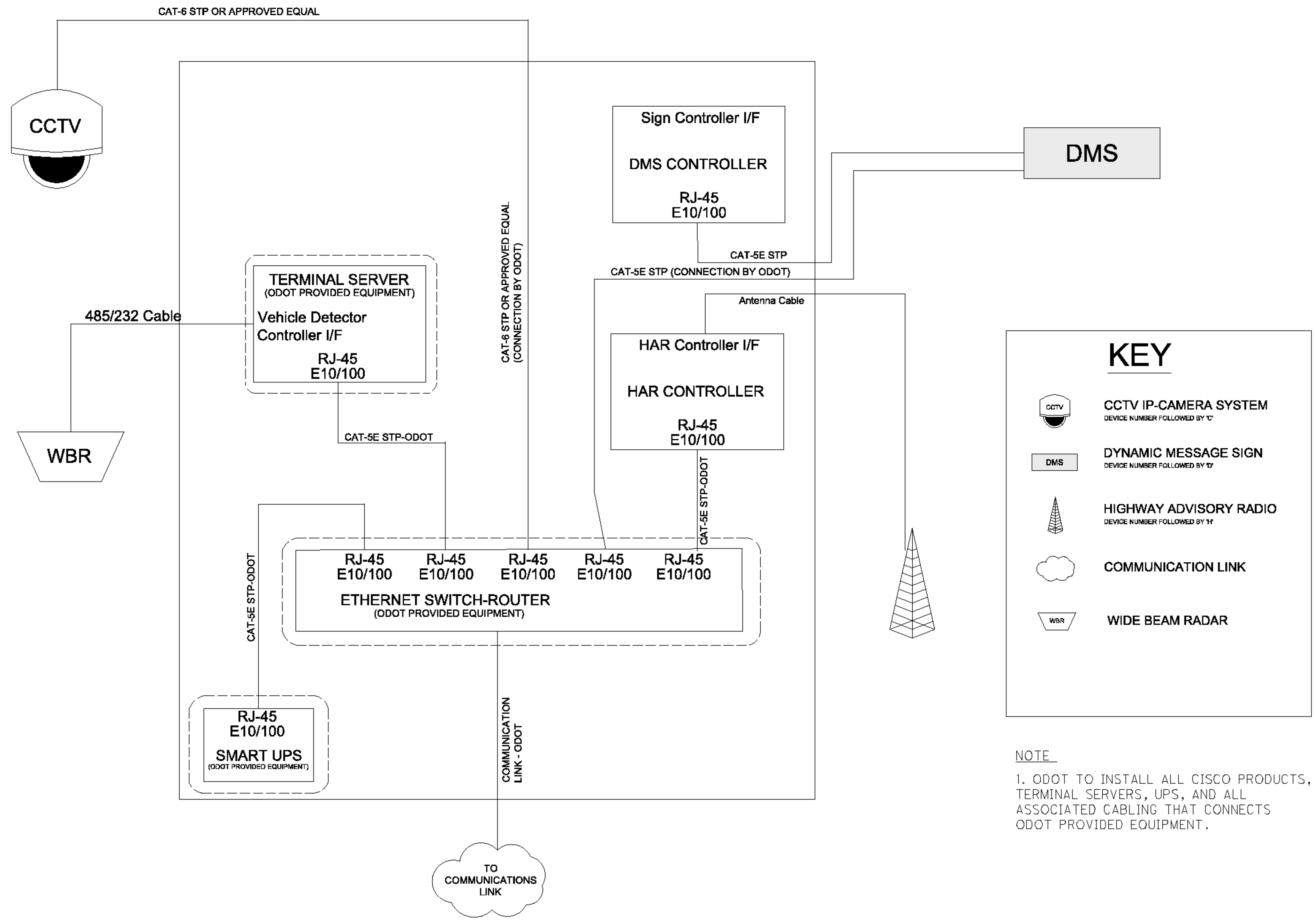
NOT TO SCALE

CALCULATED RTM CHECKED MJH

VAR-Dayton Springfield Freeway Management System



CO-LOCATED CCTV, DMS, HAR, & VDU LOCATIONS

I-70

SITE #10, 070023D, 070025H, & 070027C

NOTE

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NOT TO SCALE

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TYPICAL FIELD EQUIPMENT CABINET CCTV, DMS, HAR, & VDU

VAR-Dayton Springfield Freeway Management System

CALCULATED RTM | CHECKED MJH