

STATE OF OHIO  
DEPARTMENT OF TRANSPORTATION

STA-SUM ITS

PROJECT DESCRIPTION

THE STARK-SUMMIT ITS PROJECT IS TO IMPROVE SAFETY THROUGH BETTER CONGESTION MANAGEMENT AND TRAVELLER INFORMATION THROUGHOUT THE AKRON CANTON REGION. THE SYSTEM COVERS PORTIONS OF MEDINA, PORTAGE, STARK AND SUMMIT COUNTIES

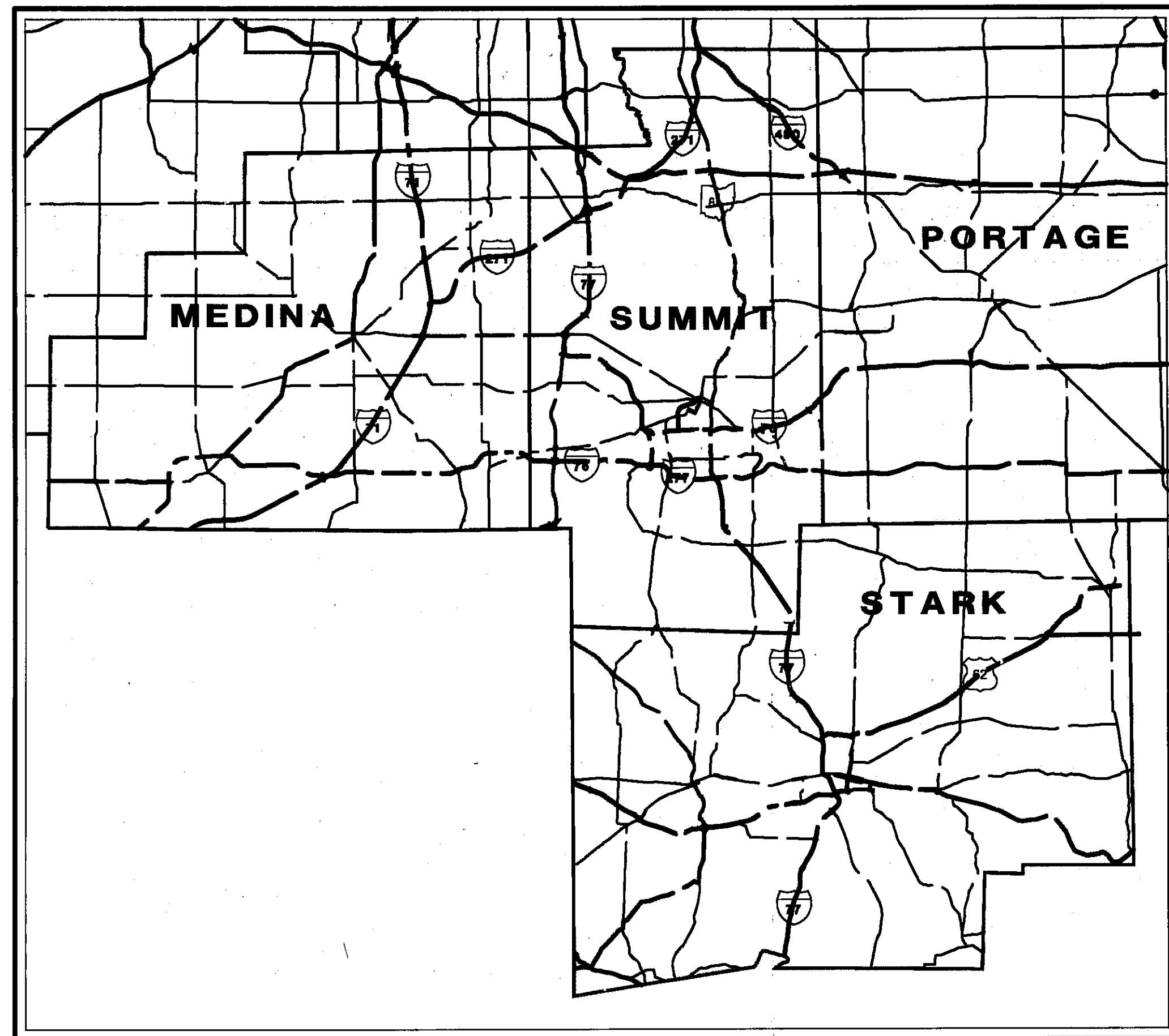
PROJECT EARTH DISTURBED AREA = N/A  
ESTIMATED CONTRACTOR EARTH DISTURBED AREA = N/A  
NOTICE OF INTENT EARTH DISTURBED AREA = N/A

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.

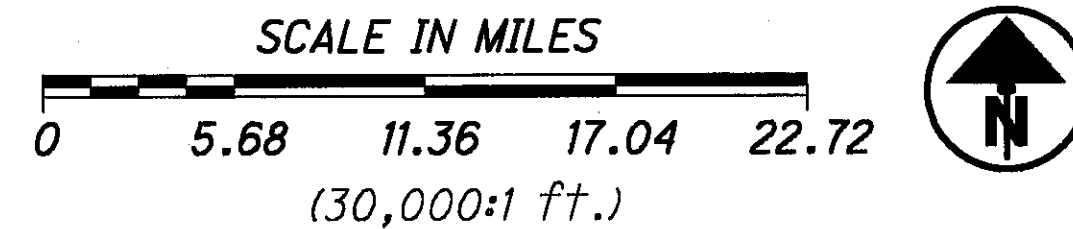
2005 SPECIFICATIONS

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



LOCATION MAP

LATITUDE: 41°56'47.00"N LONGITUDE: 81°27'48.00"W



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ODOT STANDARD CONSTRUCTION DRAWINGS						SUPPLEMENTAL SPECIFICATIONS	
GR-1.1	07/16/04	TC-21.41	01/18/02	MT-98.16	04/19/02	800	01/18/08
GR-2.1	01/16/04	TC-22.20	01/19/01	MT-98.19	10/18/02	832	04/25/06
GR-3.1	04/18/03	TC-81.10	05/01/00	MT-105.10	10/18/02		
GR-4.1	04/18/03	TC-83.20	01/16/04	MT-105.11	10/18/02		
GR-4.2	04/18/03	TC-84.20	05/01/00				
GR-4.3	04/15/05	TC-84.21	03/06/00	HL-20.11	01/19/07		
GR-5.1	04/12/03			HL-20.21	01/19/07		
		MT-35.10	04/20/01	HL-30.11	01/21/05		
RM-4.3	04/18/03	MT-95.30	07/16/04	HL-30.21	04/19/02		
RM-4.4	04/18/03	MT-95.31	07/16/04	HL-30.22	04/19/02		
RM-4.5	04/18/03	MT-95.32	07/16/04	HL-40.10	04/19/02		
		MT-98.10	10/19/07	HL-40.20	04/19/02		
TC-9.30	01/19/01	MT-98.12	04/19/02	HL-50.11	07/20/01	STA-SUM ITS	
TC-12.30	01/19/01	MT-98.13	04/19/02	HL-60.12	01/21/05	DATED 12-5-07	
TC-15.115	07/18/03	MT-98.14	04/19/02				
TC-21.20	01/19/07	MT-98.15	04/19/02				

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

PLAN PREPARED BY:

DMJM HARRIS | AECOM

ENGINEERS SEAL:

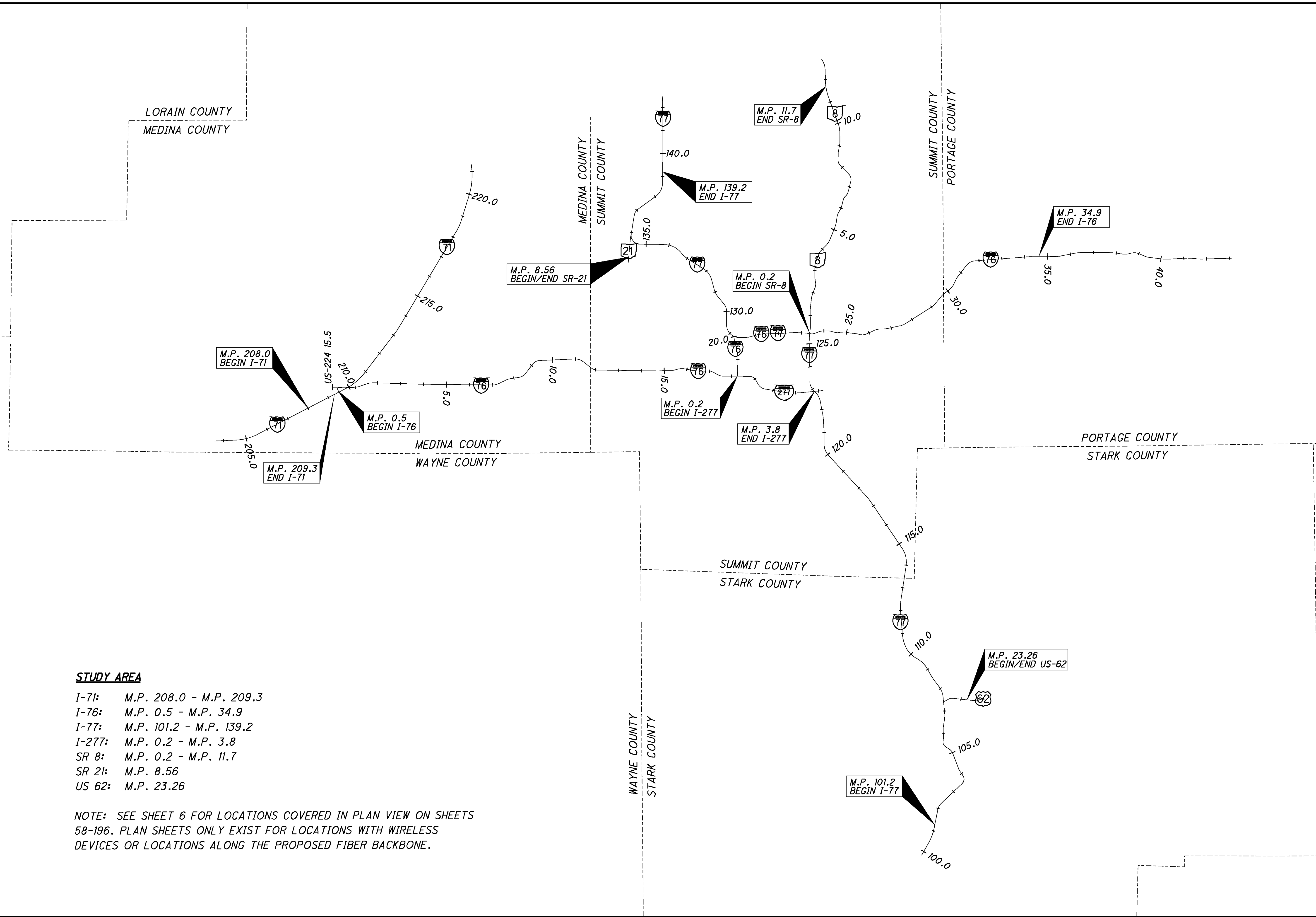
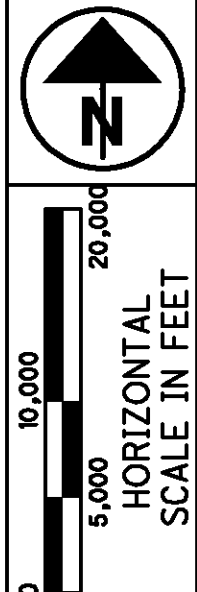


SIGNED: *Angela M. Christo*  
DATE: 12/9/07

APPROVED *Eric M. Galt*  
DATE 12-07-07 DISTRICT DEPUTY DIRECTOR

APPROVED \_\_\_\_\_  
DATE \_\_\_\_\_ DIRECTOR, DEPARTMENT OF TRANSPORTATION

FEDERAL PROJECT NO. E (040) 727  
PID NO. 77482  
CONSTRUCTION PROJECT NO. NONE  
RAILROAD INVOLVEMENT NONE  
STA-SUM ITS  
1/390



**STUDY AREA**

- I-71: M.P. 208.0 - M.P. 209.3
- I-76: M.P. 0.5 - M.P. 34.9
- I-77: M.P. 101.2 - M.P. 139.2
- I-277: M.P. 0.2 - M.P. 3.8
- SR 8: M.P. 0.2 - M.P. 11.7
- SR 21: M.P. 8.56
- US 62: M.P. 23.26

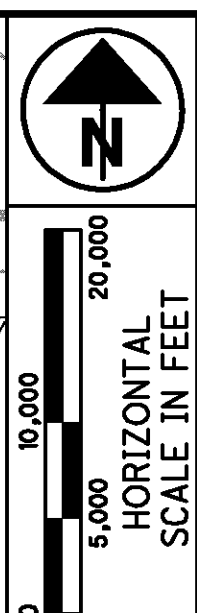
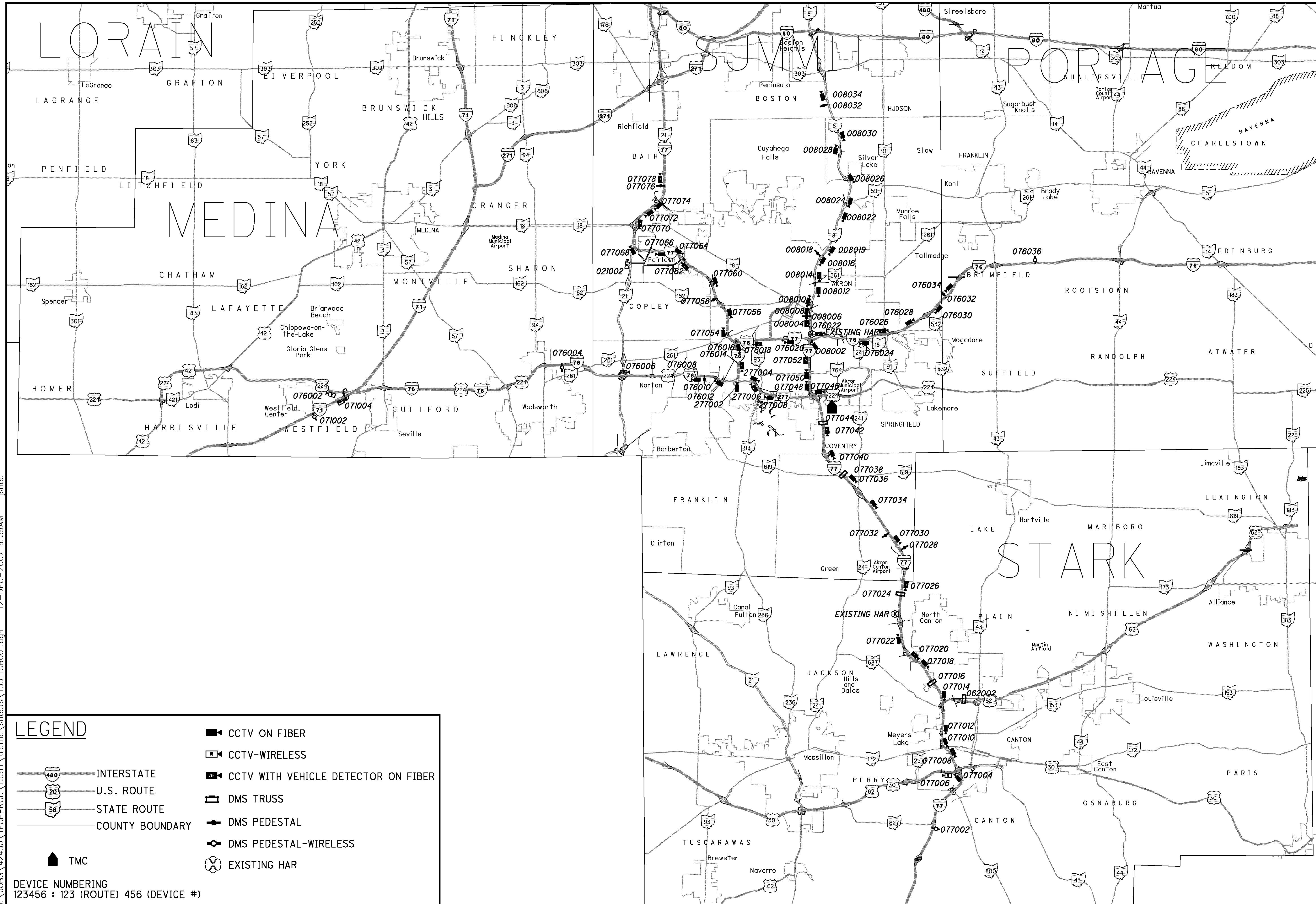
NOTE: SEE SHEET 6 FOR LOCATIONS COVERED IN PLAN VIEW ON SHEETS 58-196. PLAN SHEETS ONLY EXIST FOR LOCATIONS WITH WIRELESS DEVICES OR LOCATIONS ALONG THE PROPOSED FIBER BACKBONE.

**SCHEMATIC PLAN**

STA - SUM ITS



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### LEGEND

- INTERSTATE
- U.S. ROUTE
- STATE ROUTE
- COUNTY BOUNDARY

- CCTV ON FIBER
- CCTV-WIRELESS
- CCTV WITH VEHICLE DETECTOR ON FIBER
- DMS TRUSS
- DMS PEDESTAL
- DMS PEDESTAL-WIRELESS
- EXISTING HAR



DEVICE NUMBERING  
123456 : 123 (ROUTE) 456 (DEVICE #)

ITS DEVICE LOCATIONS

STA-SUM ITS

**I-71 DEVICES**

DEVICE NUMBER	SHEET		M.P.	OFFSET	DEVICE	COMM.
	PLANS	COMM.				
071002	58	285	208.00	101 RT'	DMS PEDESTAL	WIRELESS-CDMA
071004	59	286	209.30	118 RT'	CCTV w/ VD	T-1

**I-76 DEVICES**

DEVICE NUMBER	SHEET		M.P.	OFFSET	DEVICE	COMM.
	PLANS	COMM.				
076002	60	287	0.53	167' LT	CCTV	T-1
076004	61	288	10.62	74' RT	DMS PEDESTAL	WIRELESS-CDMA
076006	62	289	13.42	75' LT	CCTV	T-1
076008	63	290	16.82	75' RT	CCTV	FIBER
076010	63	290	16.86	66' RT	DMS PEDESTAL	FIBER
076012	65	291	17.81	59' RT	CCTV w/ VD	FIBER
076014	68	292	19.39	50' RT	CCTV w/ VD	FIBER
076016	70	293	20.24	37' RT	CCTV	FIBER
076018	72	296	21.54	92' RT	CCTV w/ VD	FIBER
076020	75	297	22.88	124' RT	CCTV	FIBER
076022	78	298	24.30	83' LT	CCTV w/ VD	FIBER
076024	82	299	26.19	72' RT	CCTV	FIBER
076026	83	300	27.04	72' LT	CCTV w/ VD	FIBER
076028	86	303	28.45	79' LT	CCTV	FIBER
076030	89	304	29.80	70' LT	CCTV	FIBER
076032	91	305	30.62	73' LT	DMS PEDESTAL	FIBER
076034	91	305	30.68	85' LT	CCTV	FIBER
076036	92	306	34.92	77' LT	DMS PEDESTAL	WIRELESS-CDMA

**I-77 DEVICES**

DEVICE NUMBER	SHEET		M.P.	OFFSET	DEVICE	COMM.
	PLANS	COMM.				
077002	93	307	101.27	115' RT	DMS PEDESTAL	WIRELESS-CDMA
077004	95	308	103.96	95' LT	CCTV	FIBER
077006	95	309	104.19	639' LT	CCTV	WIRELESS
077008	97	310	105.13	132' RT	CCTV w/ VD	FIBER
077010	98	311	105.53	68' RT	CCTV	FIBER
077012	99	312	106.20	61' RT	CCTV	FIBER
077014	102	315	107.45	64' RT	CCTV	FIBER
077016	104	316	108.51	68' LT	DMS TRUSS	FIBER
077018	106	317	109.46	198' RT	CCTV	FIBER
077020	107	318	110.00	66' RT	CCTV w/ VD	FIBER
077022	109	319	110.85	146' LT	CCTV	FIBER
HAR	111	320	111.97	155' LT	EXISTING HAR	FIBER
077024	112	321	112.80	82' RT	DMS TRUSS	FIBER
077026	114	322	113.45	95' RT	CCTV w/ VD	FIBER
077028	117	325	114.83	96' RT	DMS PEDESTAL	FIBER
077030	117	326	115.21	85' RT	CCTV	FIBER
077032	119	327	116.29	92' LT	DMS PEDESTAL	FIBER
077034	121	328	117.21	119' RT	CCTV	FIBER
077036	125	329	118.90	89' RT	CCTV	FIBER
077038	125	329	118.93	86' RT	DMS TRUSS	FIBER
077040	127	330	120.24	94' RT	CCTV	FIBER
077042	130	331	121.42	78' RT	CCTV w/ VD	FIBER
077044	130	331	121.44	82' RT	DMS TRUSS	FIBER
077046	133	341	3.87	57' LT	CCTV	FIBER
077048	133	344	123.25	76' LT	CCTV	FIBER
077050	135	345	123.93	99' LT	CCTV	FIBER
077052	136	346	124.43	66' LT	CCTV w/ VD	FIBER
077054	138	347	129.24	131' LT	CCTV	FIBER
077056	140	348	130.27	94' RT	CCTV w/ VD	FIBER
077058	142	349	130.98	72' LT	DMS PEDESTAL	FIBER
077060	143	350	131.76	187' RT	CCTV	FIBER
077062	145	351	132.85	73' LT	CCTV w/ VD	FIBER
077064	147	352	133.71	80' RT	CCTV	FIBER
077066	148	353	134.36	77' LT	CCTV	FIBER
077068	151	354	135.55	313' LT	CCTV	FIBER
077070	153	357	136.66	80' RT	CCTV w/ VD	FIBER
077072	155	358	137.58	69' RT	CCTV	FIBER
077074	156	359	138.15	160' RT	CCTV	FIBER
077076	158	360	139.11	86' LT	DMS PEDESTAL	FIBER
077078	158	360	139.13	94' LT	CCTV w/ VD	FIBER

**I-277 DEVICES**

DEVICE NUMBER	SHEET		M.P.	OFFSET	DEVICE	COMM.
	PLANS	COMM.				
277002	66	361	.21	133' RT	CCTV	FIBER
277004	166	364	.87	65' LT	CCTV	FIBER
277006	166	365	1.15	60' RT	CCTV w/ VD	FIBER
277008	168	366	1.92	66' RT	CCTV	FIBER

**SR-8 DEVICES**

DEVICE NUMBER	SHEET		M.P.	OFFSET	DEVICE	COMM.
	PLANS	COMM.				
008002	77	367	23.45	52' RT	CCTV	FIBER
HAR	77	369	0.24	268' RT	EXISTING HAR	FIBER
008004	173	370	0.94	97' LT	CCTV w/ VD	FIBER
008006	173	371	1.24	76' LT	DMS PEDESTAL	FIBER
008008	174	372	1.44	81' LT	CCTV	FIBER
008010	174	373	1.73	109' LT	CCTV	FIBER
008012	176	374	2.38	62' RT	CCTV	FIBER
008014	177	375	3.02	78' RT	CCTV w/ VD	FIBER
008016	179	376	3.93	60' RT	CCTV	FIBER
008018	179	377	4.01	72' LT	DMS PEDESTAL	FIBER
008019	180	378	4.42	62' RT	CCTV	FIBER
008022	183	381	6.17	95' RT	CCTV	FIBER
008024	184	382	6.70	122' RT	CCTV	FIBER
008026	186	383	7.64	80' RT	CCTV	FIBER
008028	189	384	6.07	73' RT	CCTV	FIBER
008030	191	387	9.81	103' RT	CCTV	FIBER
008032	194	388	11.64	76' LT	DMS PEDESTAL	FIBER
008034	194	388	11.66	72' LT	CCTV w/ VD	FIBER

**SR-21 DEVICES**

DEVICE NUMBER	SHEET		M.P.	OFFSET	DEVICE	COMM.
	PLANS	COMM.				
021002	195	389	8.56	70' RT	CCTV	T-1

**US 62 DEVICES**

DEVICE NUMBER	SHEET		M.P.	OFFSET	DEVICE	COMM.
	PLANS	COMM.				
062002	196	390	23.26	67' LT	DMS TRUSS	WIRELESS-CDMA

ITS DEVICE LOCATIONS (MILEPOST)

STA - SUM ITS

I-71 DEVICES						
DEVICE NUMBER	SHEET		LAT.	LONG.	DEVICE	COMM.
	PLANS	COMM.				
071002	58	285	41.01751	-81.92338	DMS PEDESTAL	WIRELESS-CDMA
071004	59	286	41.02604	-81.90146	CCTV w/ VD	T-1

I-76 DEVICES						
DEVICE NUMBER	SHEET		LAT.	LONG.	DEVICE	COMM.
	PLANS	COMM.				
076002	60	287	41.03038	-81.89935	CCTV	T-1
076004	61	288	41.04689	-81.71324	DMS PEDESTAL	WIRELESS-CDMA
076006	62	289	41.04009	-81.86246	CCTV	T-1
076008	63	290	41.03900	-81.59690	CCTV	FIBER
076010	63	290	41.03878	-81.59783	DMS PEDESTAL	FIBER
076012	65	291	41.03572	-81.57975	CCTV w/ VD	FIBER
076014	68	292	41.04747	-81.56479	CCTV w/ VD	FIBER
076016	70	293	41.05971	-81.56790	CCTV	FIBER
076018	72	296	41.06166	-81.54547	CCTV w/ VD	FIBER
076020	75	297	41.06225	-81.51974	CCTV	FIBER
076022	78	298	41.06368	-81.49303	CCTV w/ VD	FIBER
076024	82	299	41.06106	-81.45721	CCTV	FIBER
076026	83	300	41.06452	-81.44191	CCTV w/ VD	FIBER
076028	86	303	41.07132	-81.41700	CCTV	FIBER
076030	89	304	41.08299	-81.39656	CCTV	FIBER
076032	91	305	41.09181	-81.38464	DMS PEDESTAL	FIBER
076034	91	305	41.09108	-81.38517	CCTV	FIBER
076036	92	306	41.10904	-81.31280	DMS PEDESTAL	WIRELESS-CDMA

I-77 DEVICES						
DEVICE NUMBER	SHEET		LAT.	LONG.	DEVICE	COMM.
	PLANS	COMM.				
077002	93	307	40.75082	-81.40530	DMS PEDESTAL	WIRELESS-CDMA
077004	95	308	40.78251	-81.38293	CCTV	FIBER
077006	95	309	40.78430	-81.38680	CCTV	WIRELESS
077008	97	310	40.79800	-81.39154	CCTV w/ VD	FIBER
077010	98	311	40.80161	-81.39735	CCTV	FIBER
077012	99	312	40.81122	-81.39749	CCTV	FIBER
077014	102	315	40.82923	-81.39691	CCTV	FIBER
077016	104	316	40.84282	-81.40546	DMS TRUSS	FIBER
077018	106	317	40.85464	-81.41500	CCTV	FIBER
077020	107	318	40.85887	-81.42356	CCTV w/ VD	FIBER
077022	109	319	40.86973	-81.43084	CCTV	FIBER
HAR	111	320	40.88592	-81.43247	EXISTING HAR	FIBER
077024	112	321	40.89782	-81.43013	DMS TRUSS	FIBER
077026	114	322	40.90702	-81.42821	CCTV w/ VD	FIBER
077028	117	325	40.92664	-81.43037	DMS PEDESTAL	FIBER
077030	117	326	40.93108	-81.43431	CCTV	FIBER
077032	119	327	40.93690	-81.44010	DMS PEDESTAL	FIBER
077034	121	328	40.95541	-81.45525	CCTV	FIBER
077036	125	329	40.97412	-81.47708	CCTV	FIBER
077038	125	329	40.97410	-81.47708	DMS TRUSS	FIBER
077040	127	330	40.98867	-81.49286	CCTV	FIBER
077042	130	331	41.00583	-81.49391	CCTV w/ VD	FIBER
077044	130	331	41.00580	-81.49389	DMS TRUSS	FIBER
077046	133	341	41.02561	-81.50043	CCTV	FIBER
077048	133	344	41.02999	-81.50524	CCTV	FIBER
077050	135	345	41.03995	-81.50545	CCTV	FIBER
077052	136	346	41.04706	-81.50571	CCTV w/ VD	FIBER
077054	138	347	41.06546	-81.57415	CCTV	FIBER
077056	140	348	41.08041	-81.57510	CCTV w/ VD	FIBER
077058	142	349	41.08851	-81.58355	DMS PEDESTAL	FIBER
077060	143	350	41.09955	-81.58708	CCTV	FIBER
077062	145	351	41.10876	-81.60422	CCTV w/ VD	FIBER
077064	147	352	41.11724	-81.61622	CCTV	FIBER
077066	148	353	41.11891	-81.62823	CCTV	FIBER
077068	151	354	41.12033	-81.65148	CCTV	FIBER
077070	153	357	41.13622	-81.65030	CCTV w/ VD	FIBER
077072	155	358	41.14557	-81.63909	CCTV	FIBER
077074	156	359	41.15034	-81.63001	CCTV	FIBER
077076	158	360	41.16372	-81.62646	DMS PEDESTAL	FIBER
077078	158	360	41.16403	-81.62648	CCTV w/ VD	FIBER

I-277 DEVICES						
DEVICE NUMBER	SHEET		LAT.	LONG.	DEVICE	COMM.
	PLANS	COMM.				
277002	66	361	41.03509	-81.56536	CCTV	FIBER
277004	166	364	41.03502	-81.55277	CCTV	FIBER
277006	166	365	41.03172	-81.54961	CCTV w/ VD	FIBER
277008	168	366	41.02633	-81.53759	CCTV	FIBER

SR-8 DEVICES						
DEVICE NUMBER	SHEET		LAT.	LONG.	DEVICE	COMM.
	PLANS	COMM.				
008002	77	367	41.06163	-81.50327	CCTV	FIBER
HAR	77	369	41.06246	-81.50384	EXISTING HAR	FIBER
008004	173	370	41.07256	-81.50459	CCTV w/ VD	FIBER
008006	173	371	41.07690	-81.50444	DMS PEDESTAL	FIBER
008008	174	372	41.07987	-81.50408	CCTV	FIBER
008010	174	373	41.08396	-81.50349	CCTV	FIBER
008012	176	374	41.09295	-81.49920	CCTV	FIBER
008014	177	375	41.10216	-81.49970	CCTV w/ VD	FIBER
008016	179	376	41.11421	-81.49427	CCTV	FIBER
008018	179	377	41.11529	-81.49350	DMS PEDESTAL	FIBER
008019	180	378	41.11957	-81.48793	CCTV	FIBER
008022	183	381	41.14319	-81.47622	CCTV	FIBER
008024	184	382	41.14973	-81.47159	CCTV	FIBER
008026	186	383	41.16283	-81.47094	CCTV	FIBER
008028	189	384	41.18115	-81.47831	CCTV	FIBER
008030	191	387	41.19177	-81.47780	CCTV	FIBER
008032	194	388	41.21687	-81.48913	DMS PEDESTAL	FIBER
008034	194	388	41.21716	-81.48919	CCTV w/ VD	FIBER

SR-21 DEVICES						
DEVICE NUMBER	SHEET		LAT.	LONG.	DEVICE	COMM.
	PLANS	COMM.				
021002	195	389	41.11148	-81.65494	CCTV	T-1

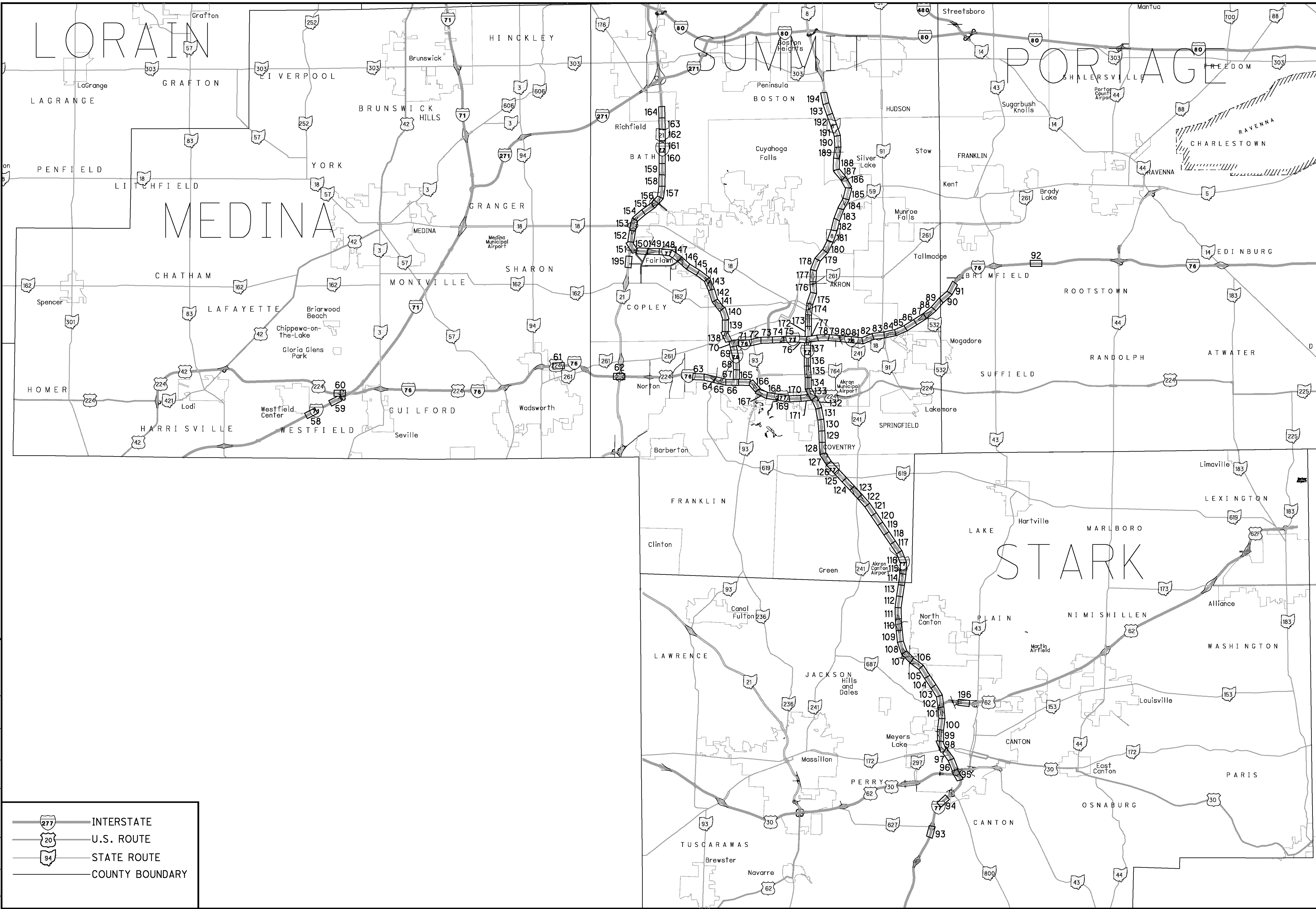
US 62 DEVICES						
DEVICE NUMBER	SHEET		LAT.	LONG.	DEVICE	COMM.
	PLANS	COMM.				
062002	196	390	40.82974	-81.37754	DMS TRUSS	WIRELESS-CDMA


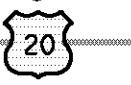

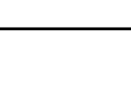
ITS DEVICE LOCATIONS (LAT. & LONG.)


STA - SUM ITS

CALCULATED  
SEB  
CHECKED  
KAO





-  INTERSTATE
-  U.S. ROUTE
-  STATE ROUTE
-  COUNTY BOUNDARY

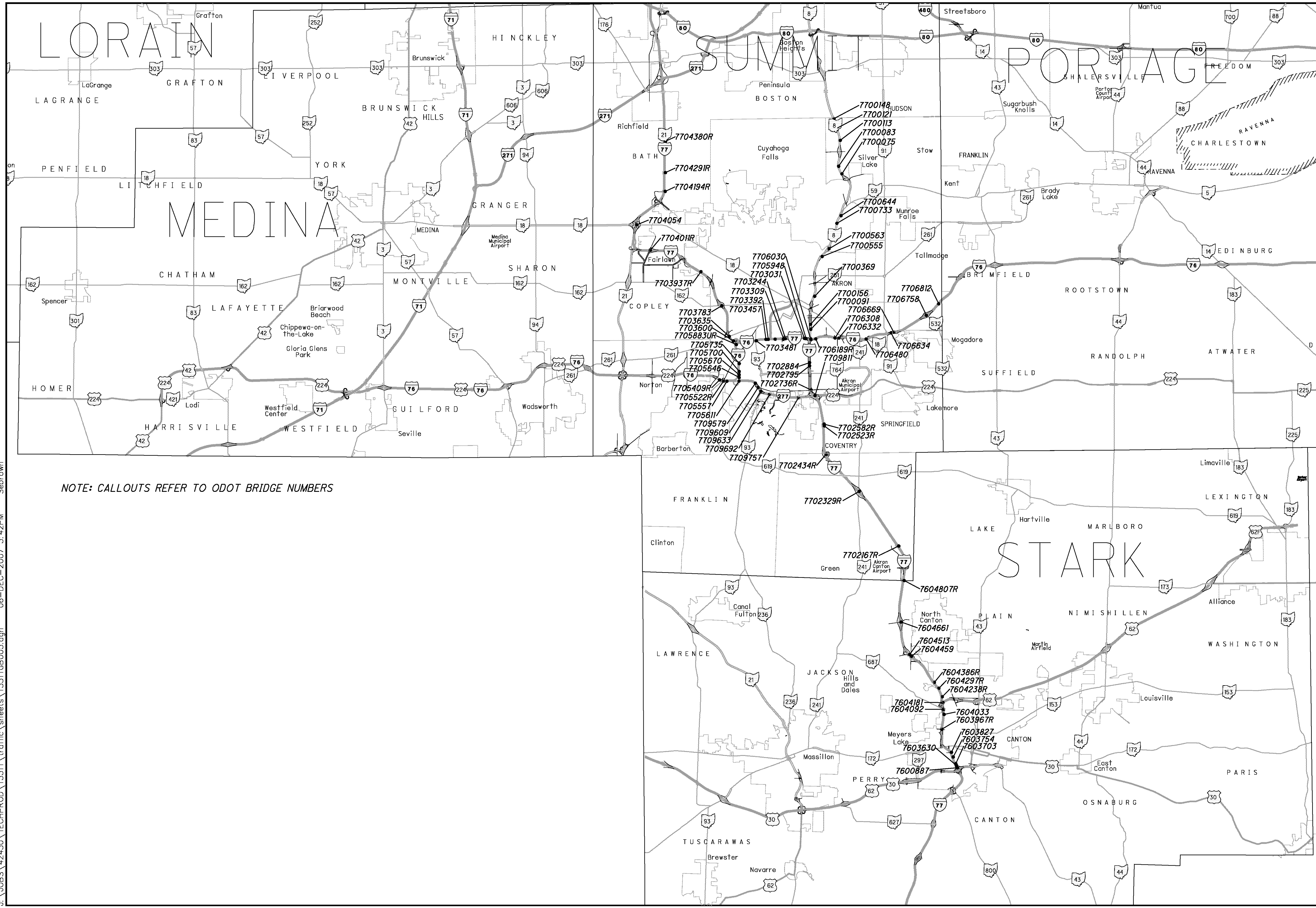


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HORIZONTAL SCALE IN FEET

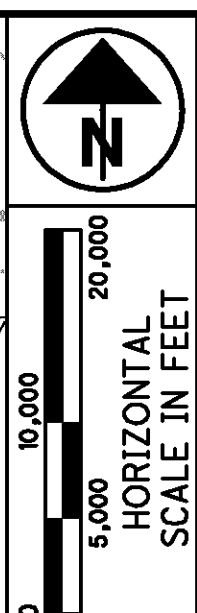
SHEET LAYOUT

STA - SUM ITS



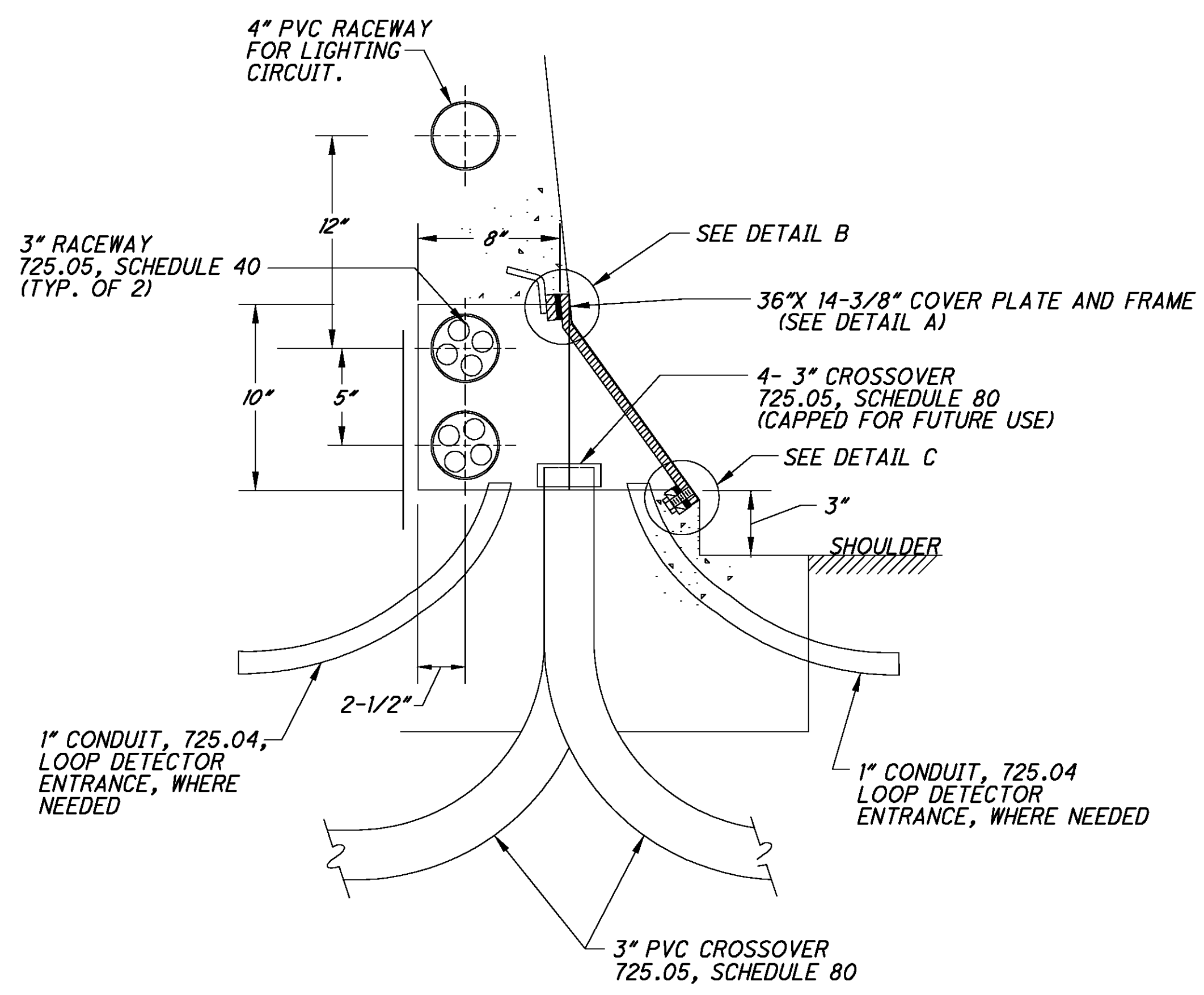


NOTE: CALLOUTS REFER TO ODOT BRIDGE NUMBERS

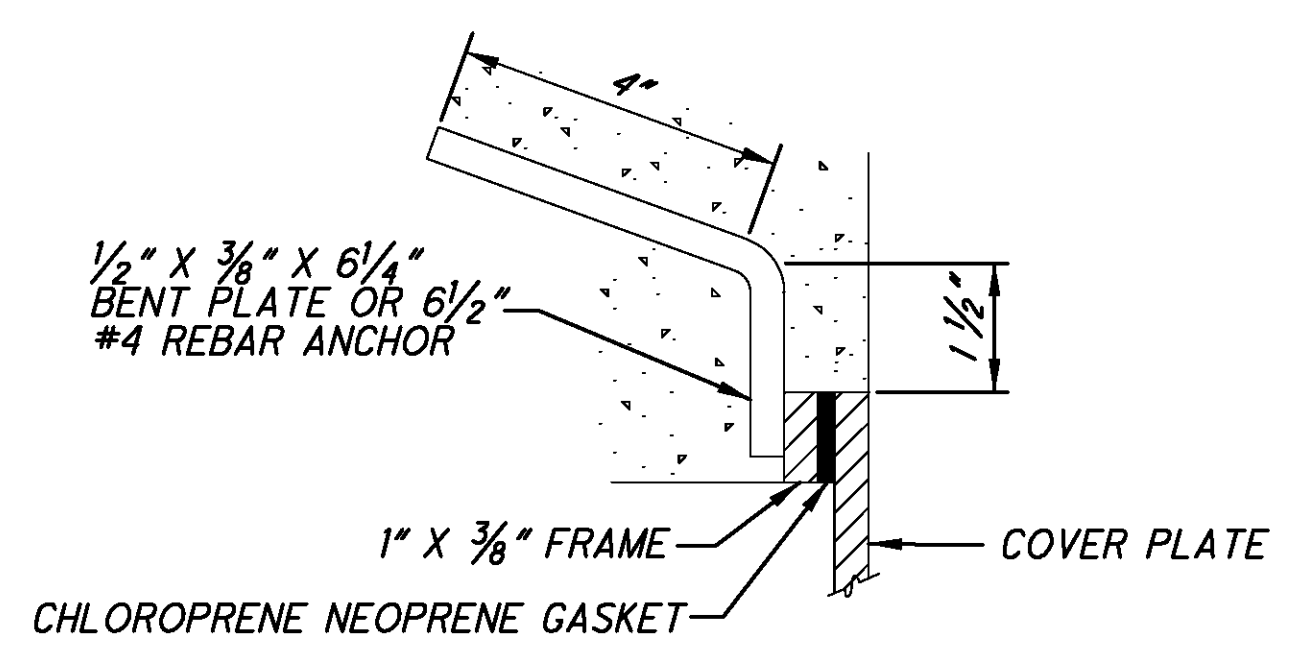


LOCATIONS WITH FIBER ON STRUCTURE

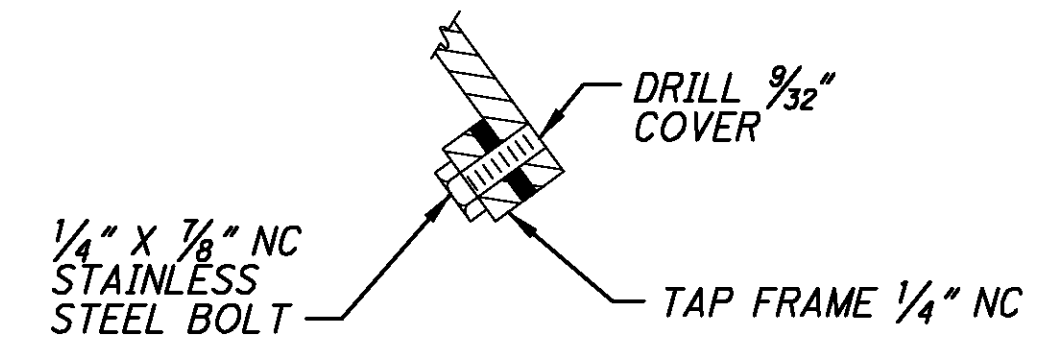
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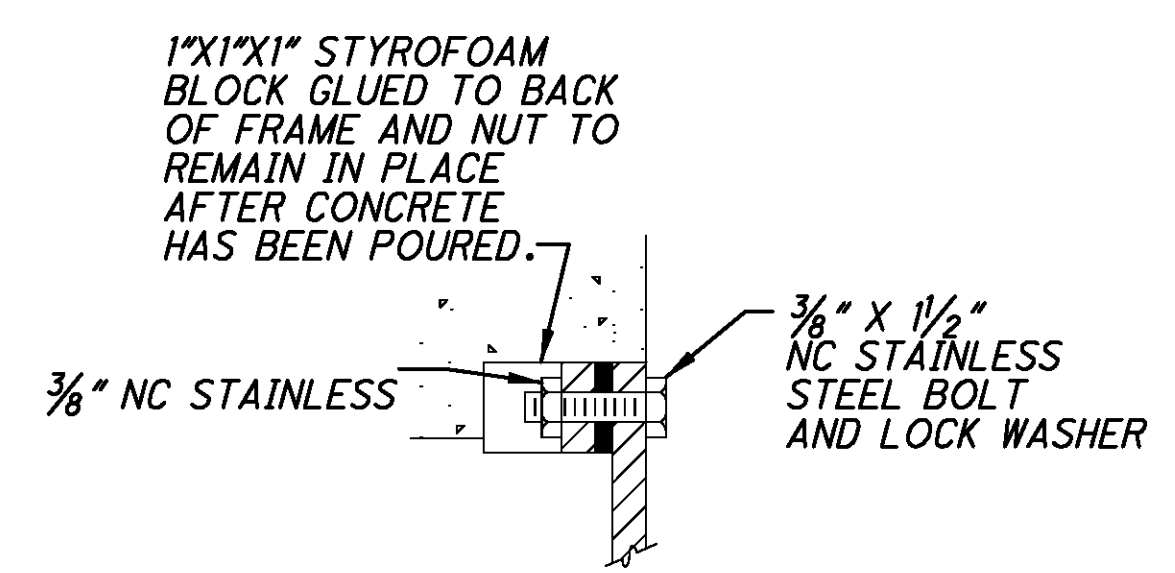
SECTION "A-A"



DETAIL B  
ANCHOR BAR (TAB)



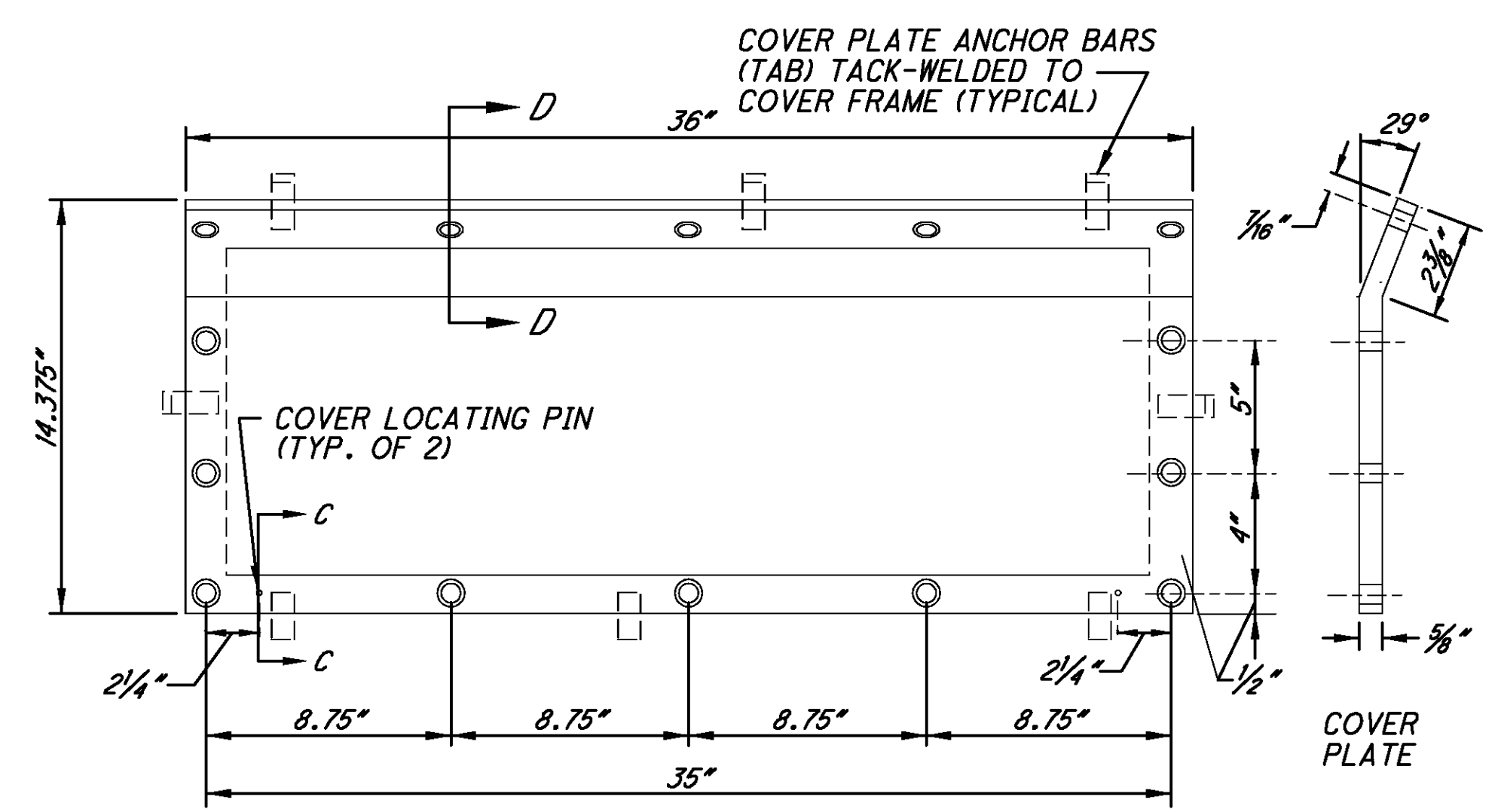
DETAIL C  
LOCATION PIN



SECTION "D-D"  
COVER BOLT

NOTES:

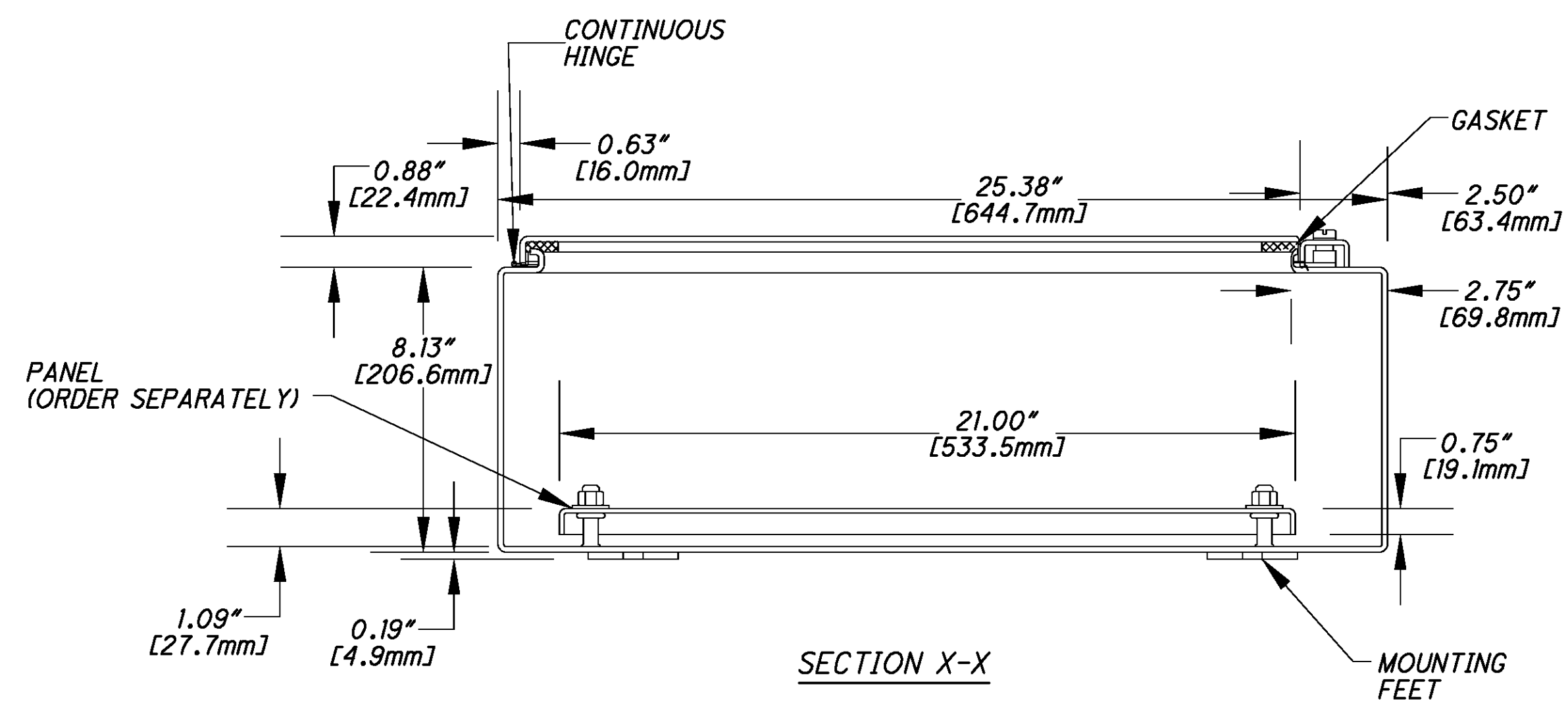
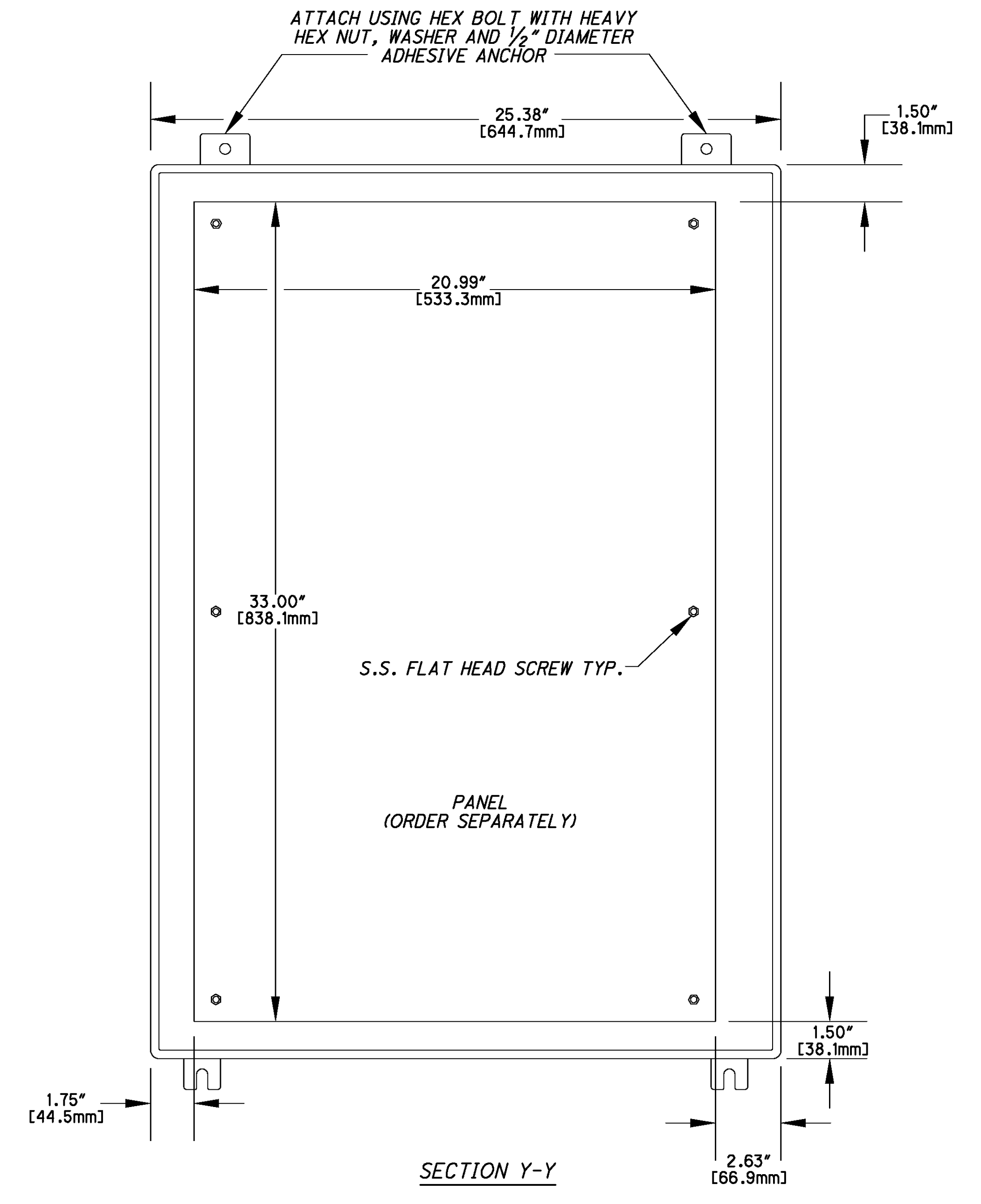
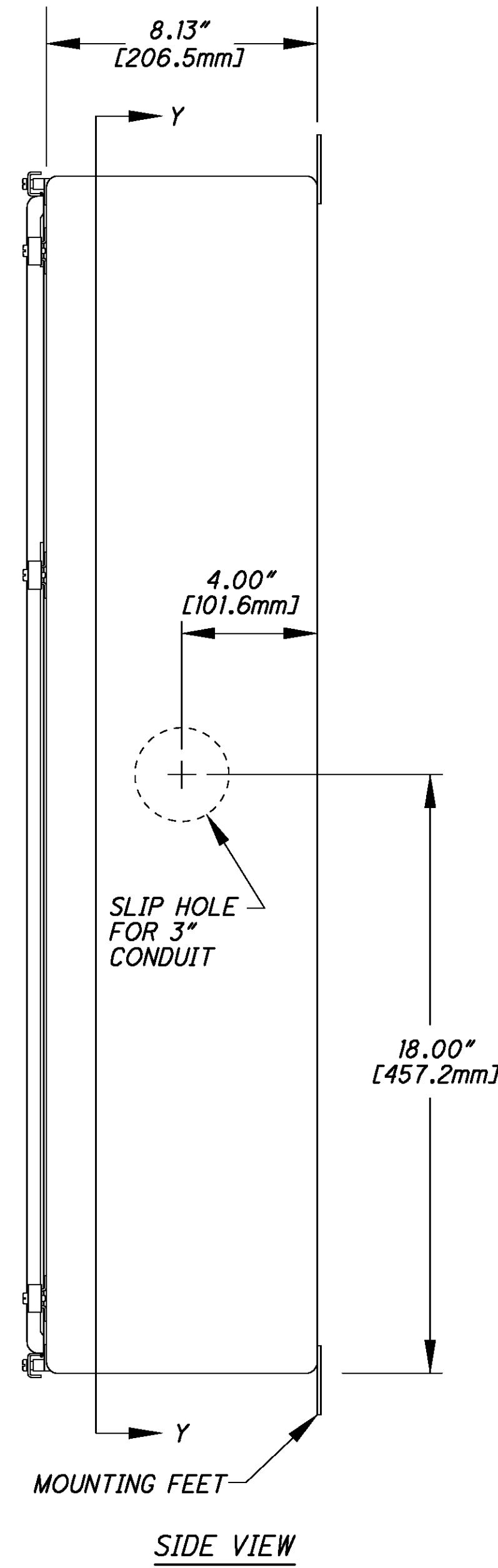
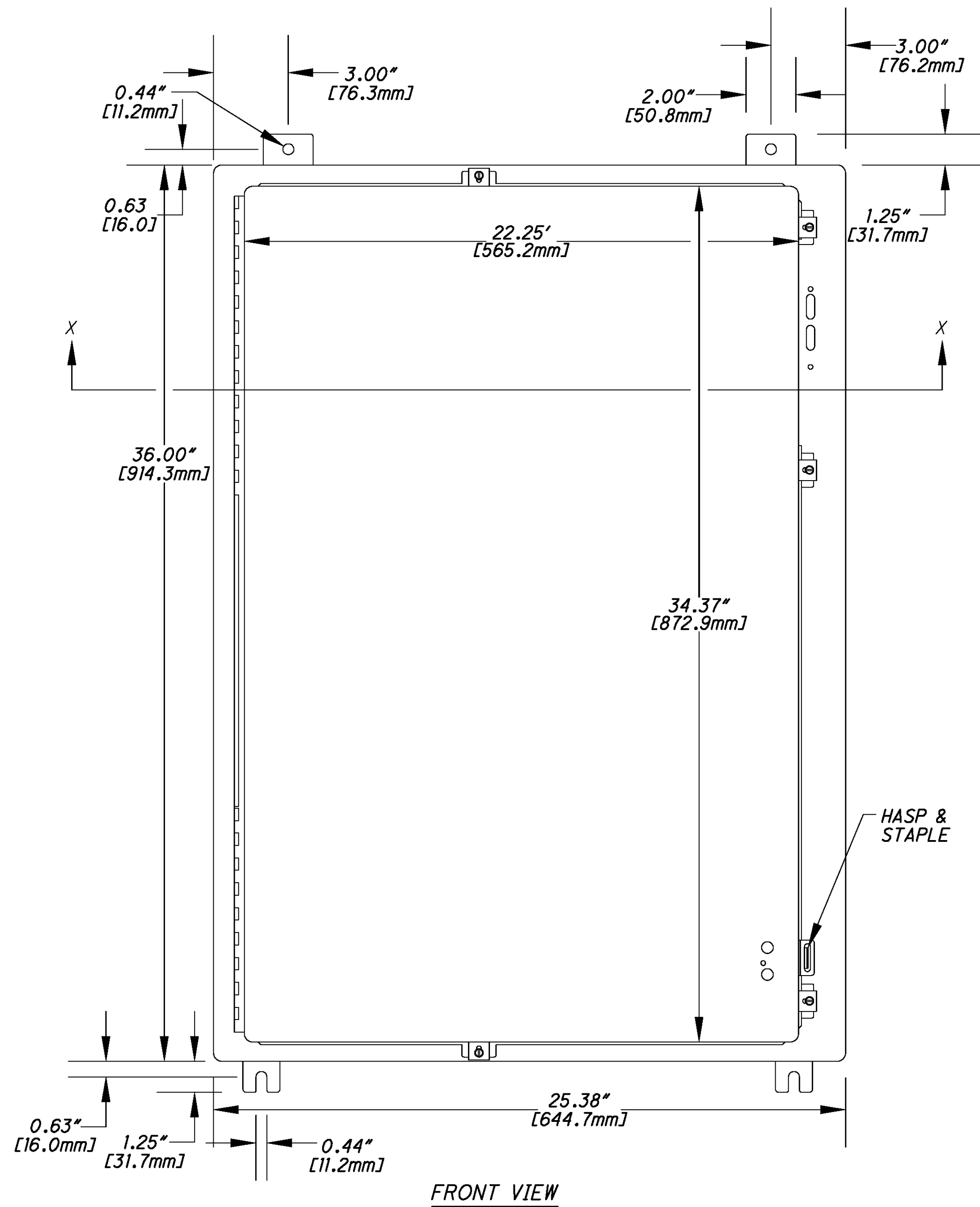
1. COVER PLATE FRAME SHALL BE ORIENTED WITH THE LOCATING PINS BEFORE DRILLING COVER PLATE BOLT HOLES
2. THE PULLBOX CAVITY COVER PLATE AND FRAME SHALL BE HOT DIP GALVANIZED AFTER ALL FABRICATION IS FINISHED, IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A-123.
3. ALL CONDUITS SHALL HAVE PUSH-IN CAPS.
4. ALL SURVEILLANCE CONDUITS SHALL BE ACCESSIBLE INSIDE THE PULL BOX.



DETAIL A  
DETAIL OF COVER PLATE FRAME FOR PULLBOX CAVITY

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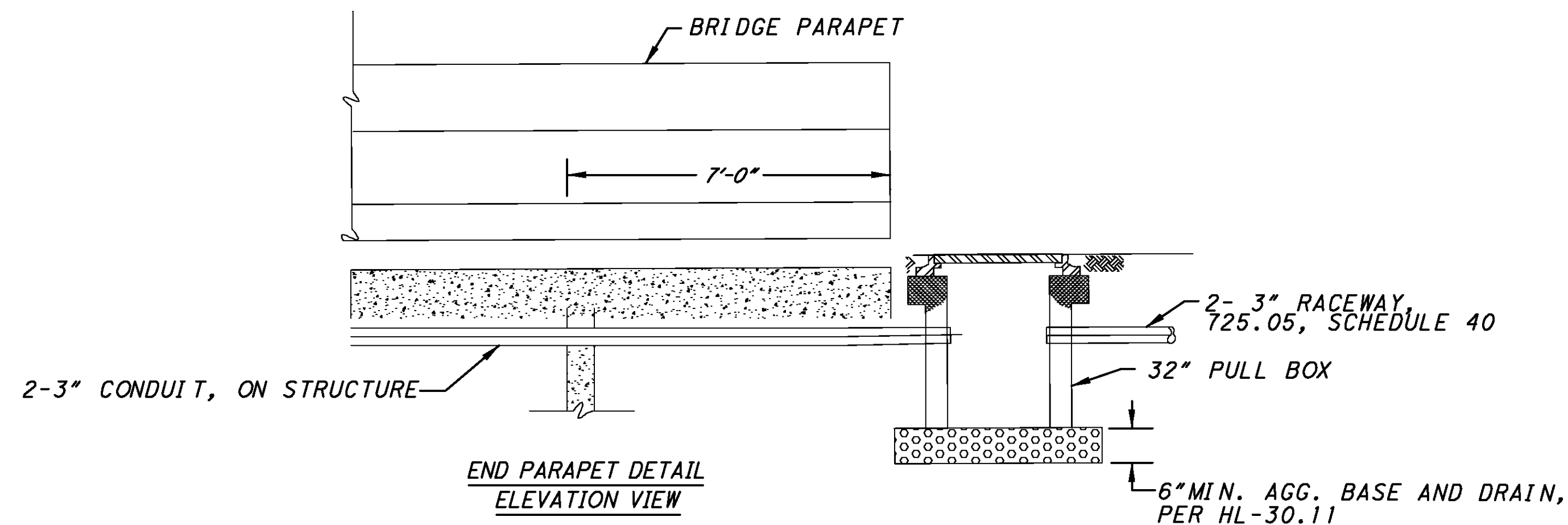
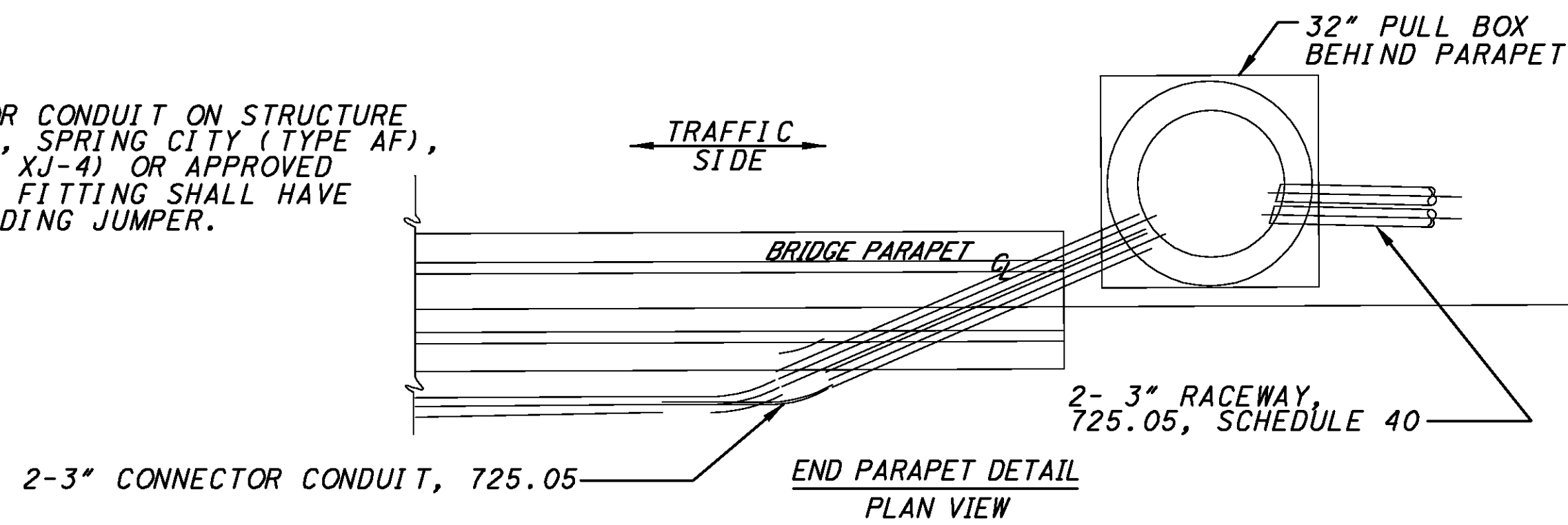
NOTE:  
1. JUNCTION BOX SHALL CONFORM TO 725.10.

CALCULATED  
STS  
CHECKED  
JDG

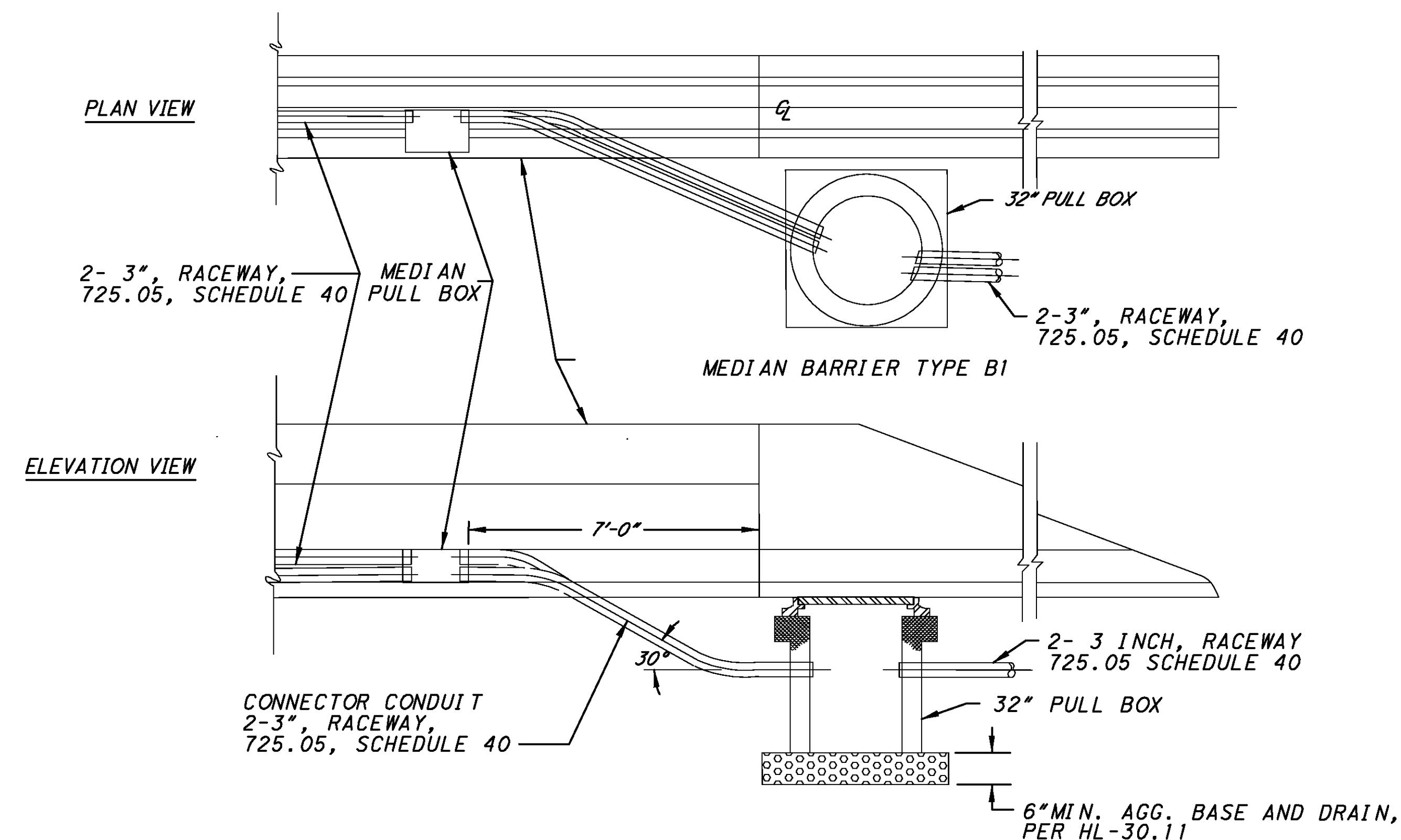
STRUCTURE JUNCTION BOX DETAILS

STA-SUM ITS

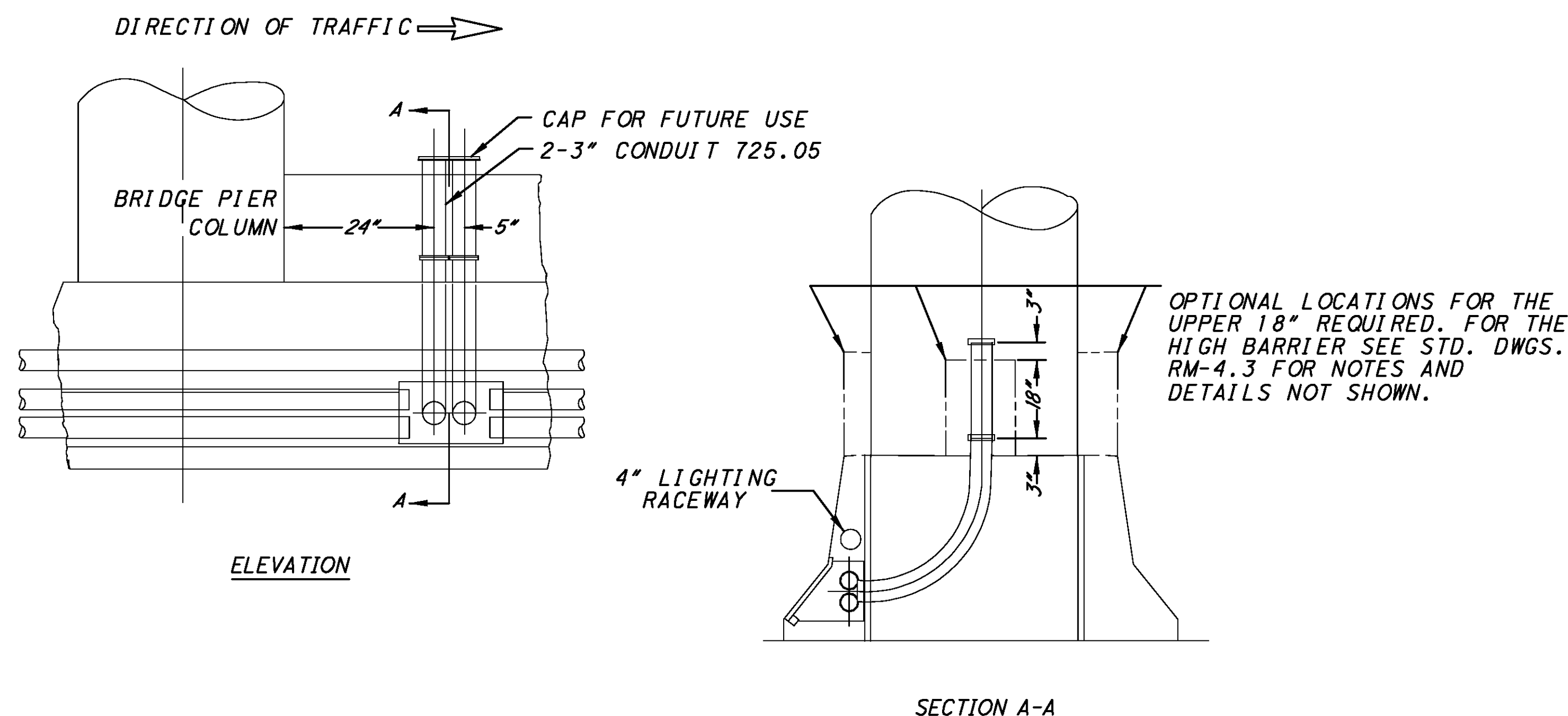
CONDUIT ON STRUCTURE  
 EXPANSION FITTINGS FOR CONDUIT ON STRUCTURE SHALL BE OZ (TYPE AX), SPRING CITY (TYPE AF), OR CROUSE-HINDS (TYPE XJ-4) OR APPROVED EQUAL. EACH EXPANSION FITTING SHALL HAVE A COPPER EXTERNAL BONDING JUMPER.



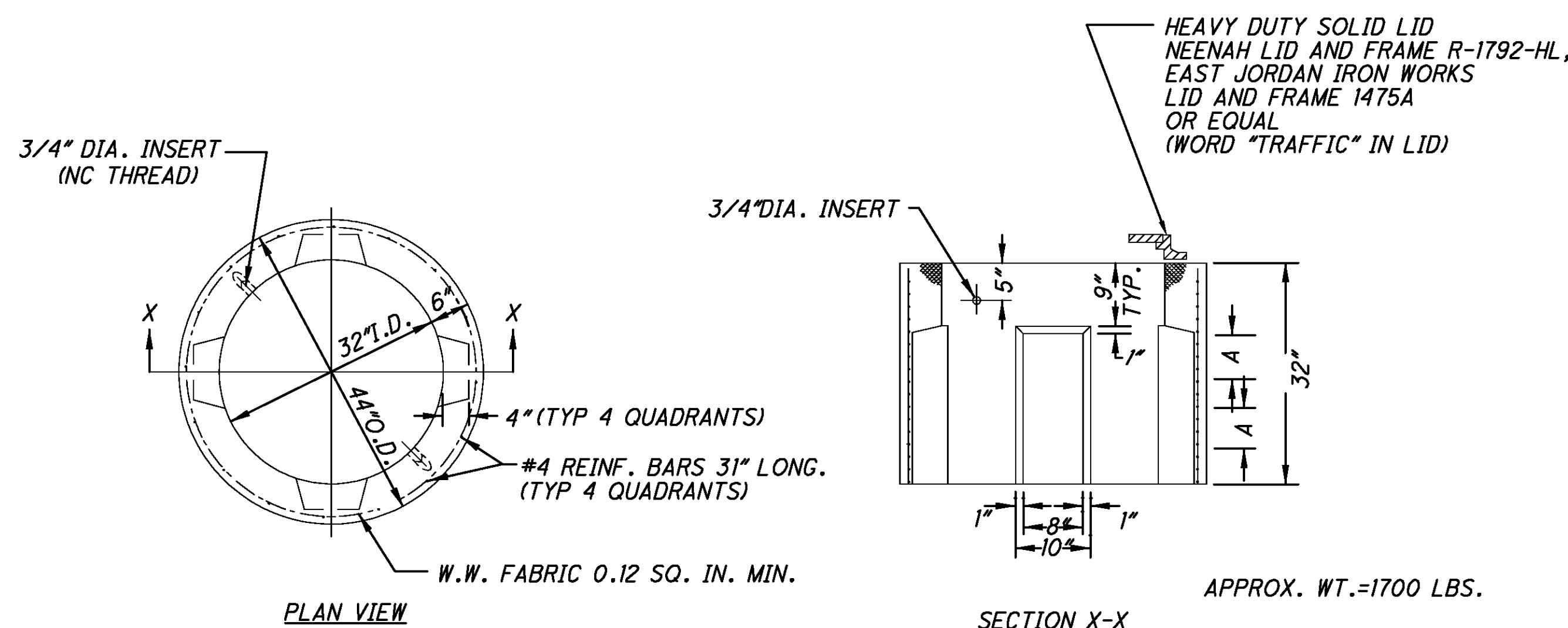
TYPICAL SURVEILLANCE CONDUIT TREATMENT AT END OF BRIDGE PARAPET



TYPICAL SURVEILLANCE CONDUIT TREATMENT AT END BARRIER WALL



BRIDGE PIER RISER



NOTE:

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

CONCRETE COMP. STRENGTH 4000 PSI MIN. DESIGN. CONCRETE AIR ENTRAINMENT TO BE 6% + 1 1/2%.

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

LID RING LOAD TRANSFER IS TO BE DISTRIBUTED BY THE USE OF A PERFORMED MOSTIC JOINT MATERIAL.

32" PULL BOX, AS PER PLAN

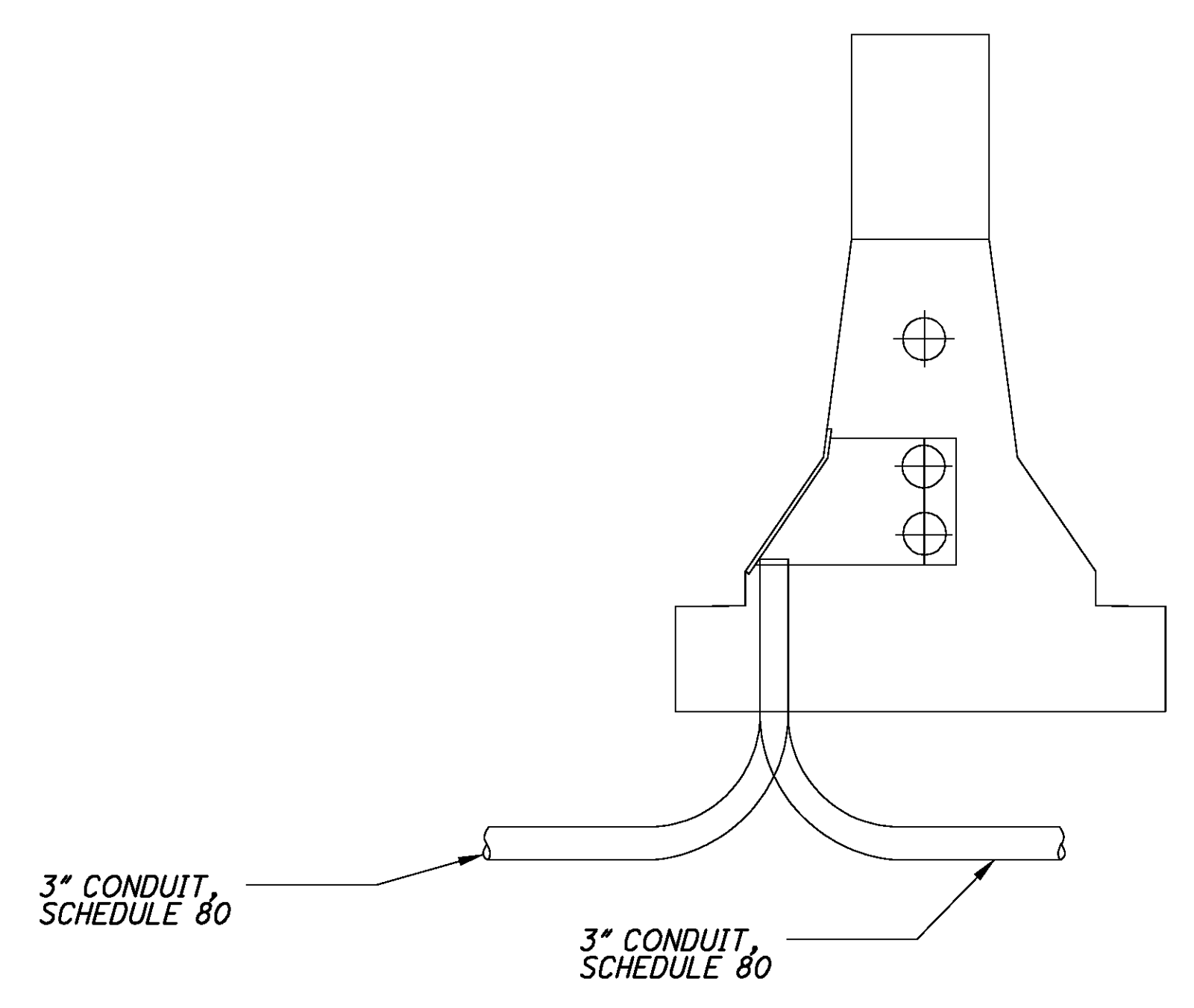
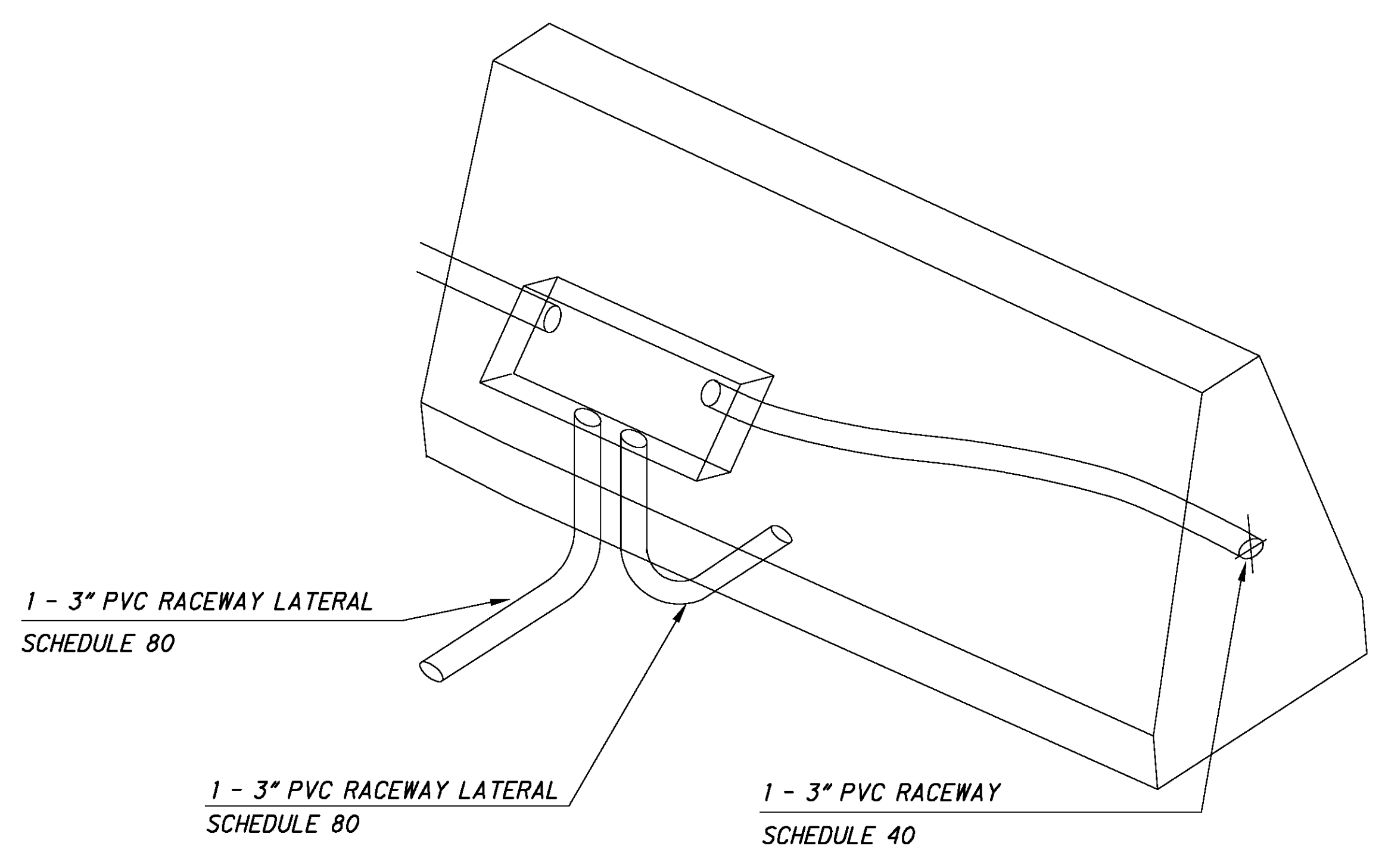
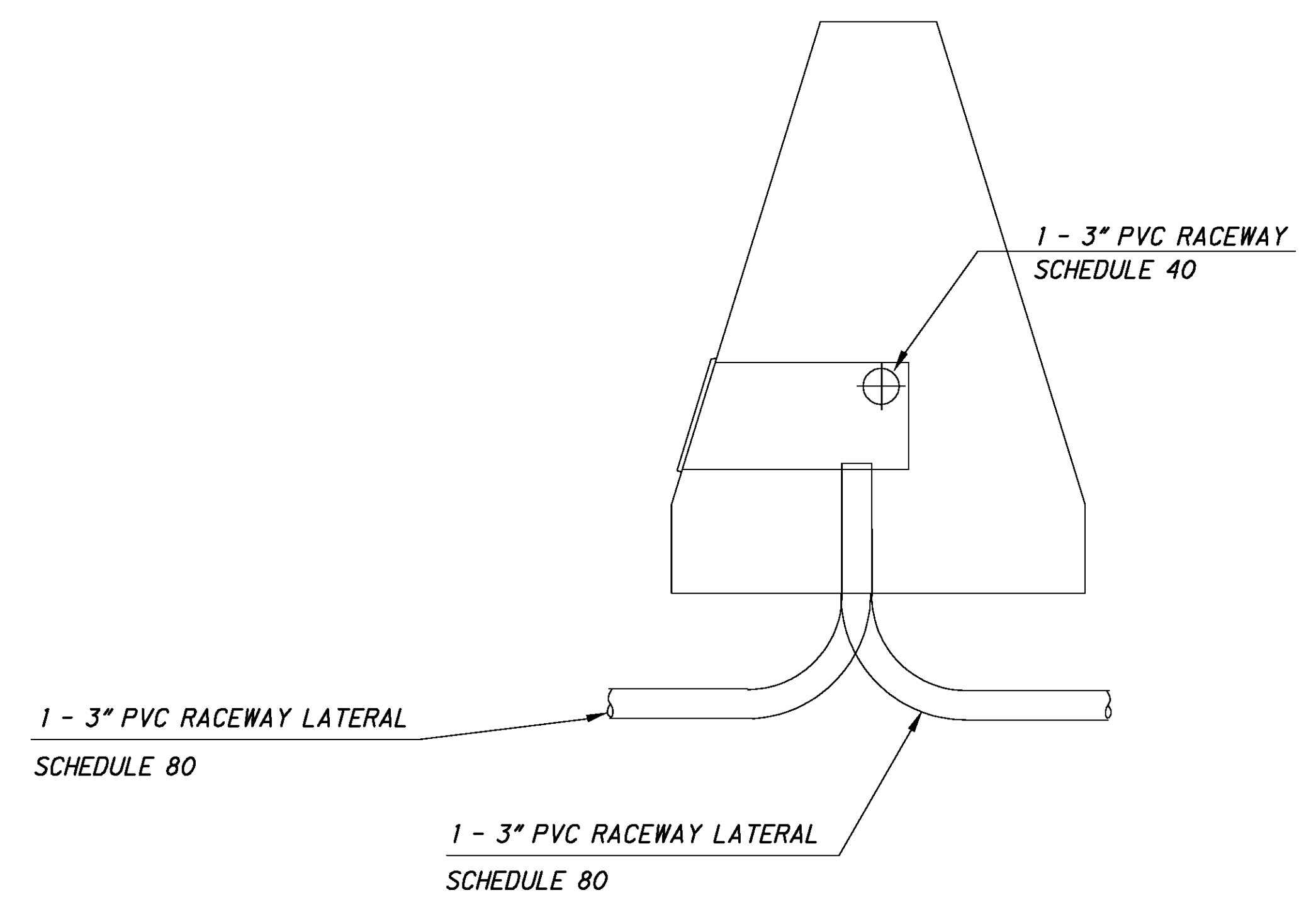
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CALCULATED STS CHECKED JDG

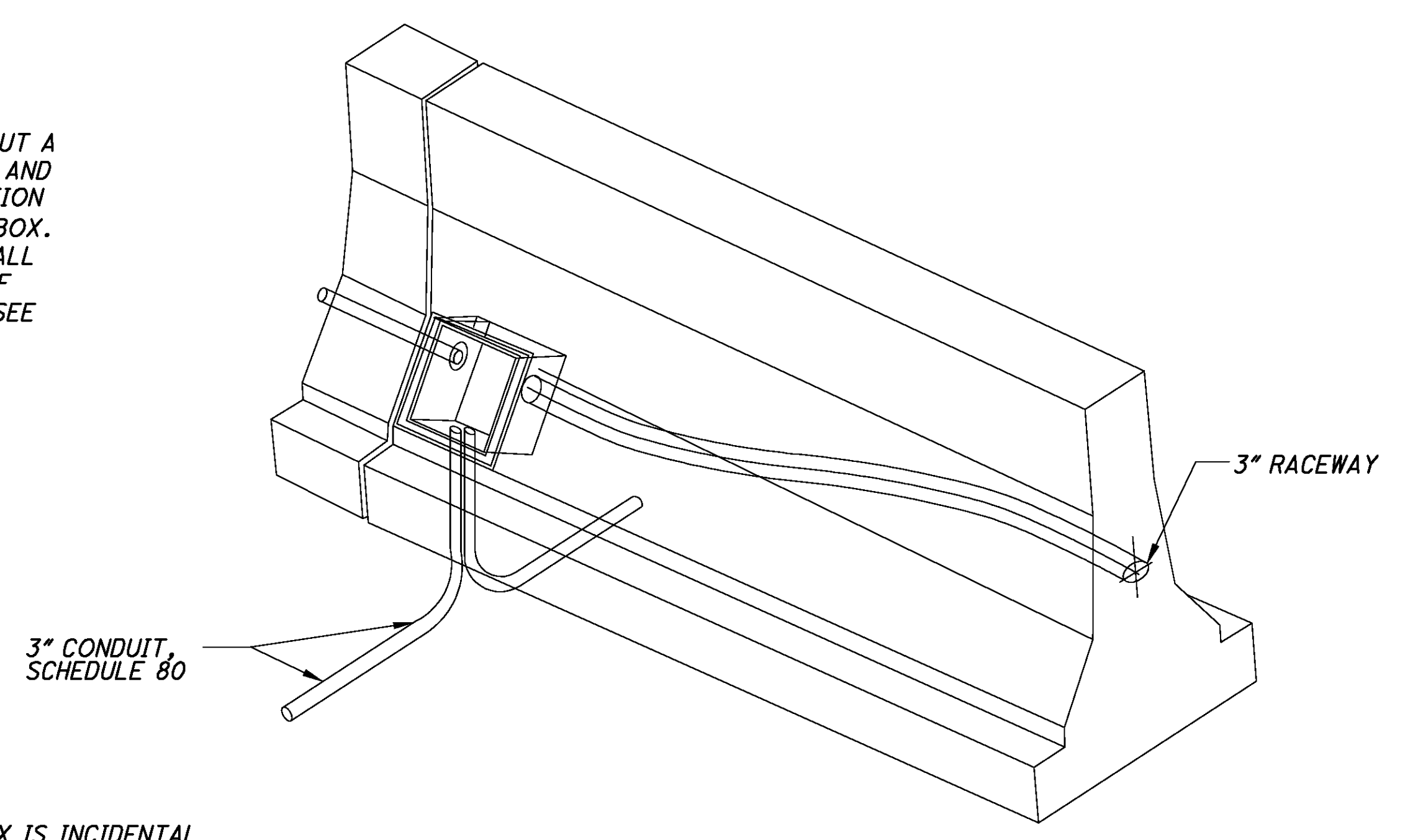
CONDUIT AND PULL BOX DETAILS

STA-SUM ITS





ALTERNATE METHOD:  
CONTRACTOR MAY CUT OUT A  
10'-0" SECTION OF WALL AND  
REPLACE IT WITH A SECTION  
CONTAINING A NEW PULLBOX.  
AN EXPANSION JOINT SHALL  
BE USED ON EACH END OF  
THE CUT OUT SECTION. SEE  
DETAIL, SHEET 12.



REFINISHING AROUND BOX IS INCIDENTAL  
TO THE COST OF INSTALLATION.

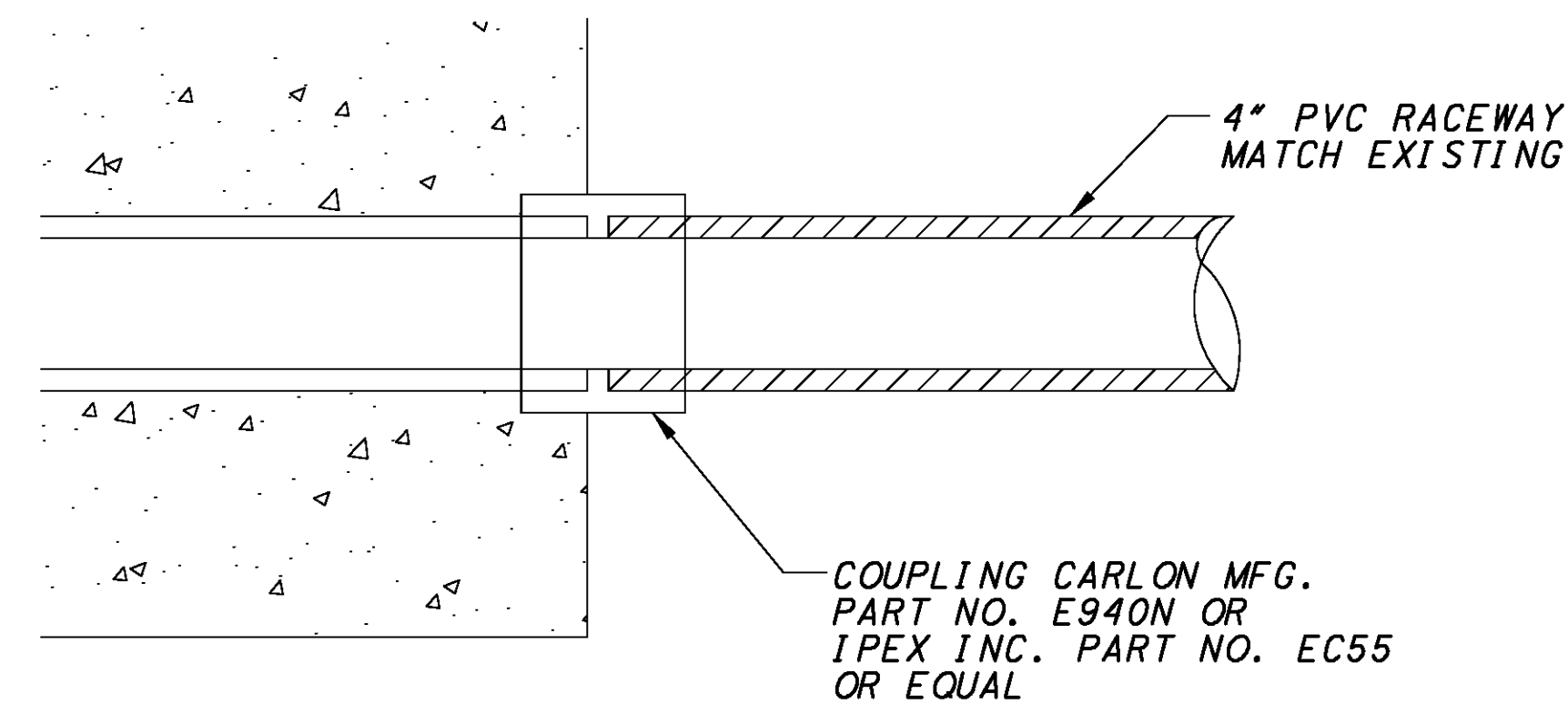
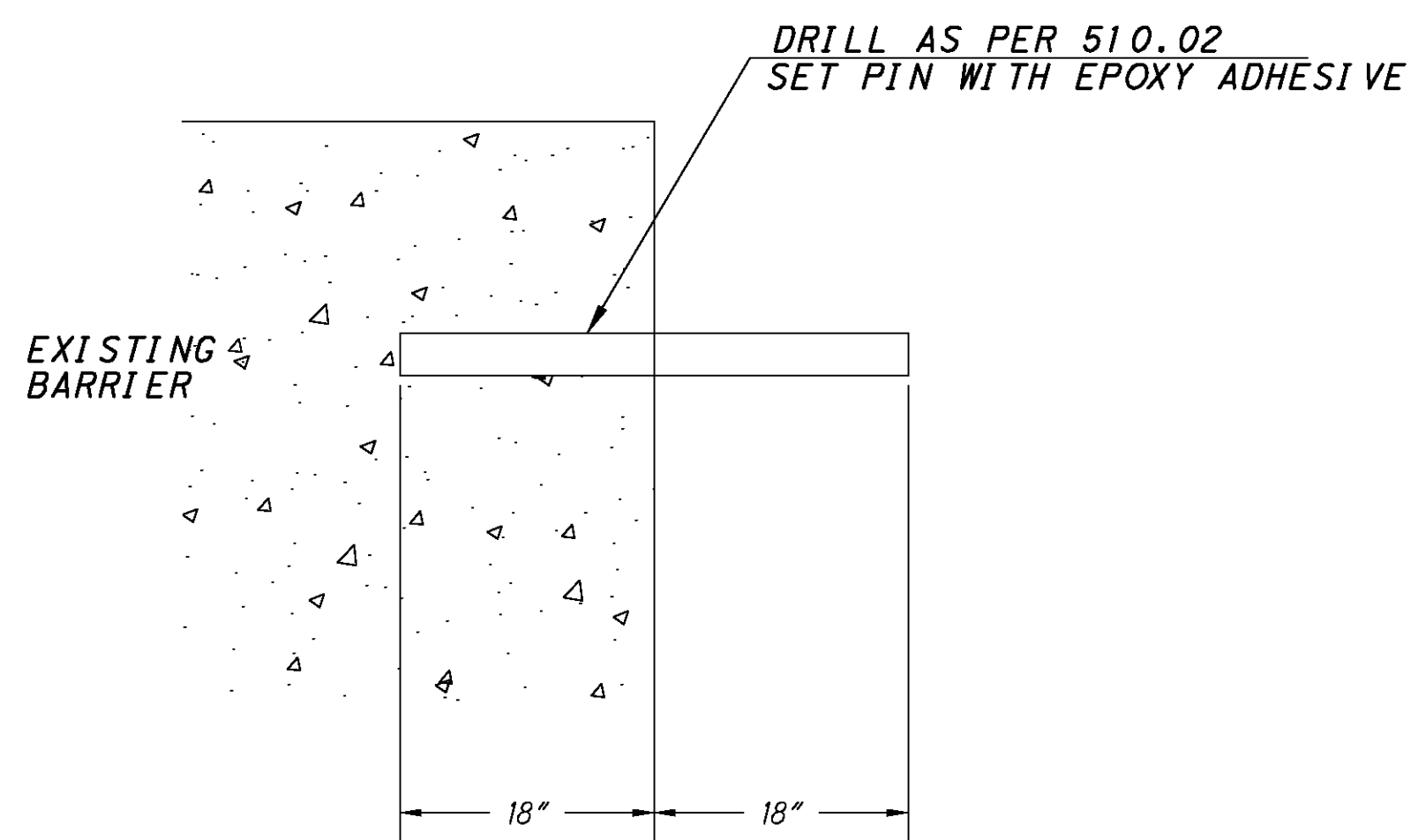
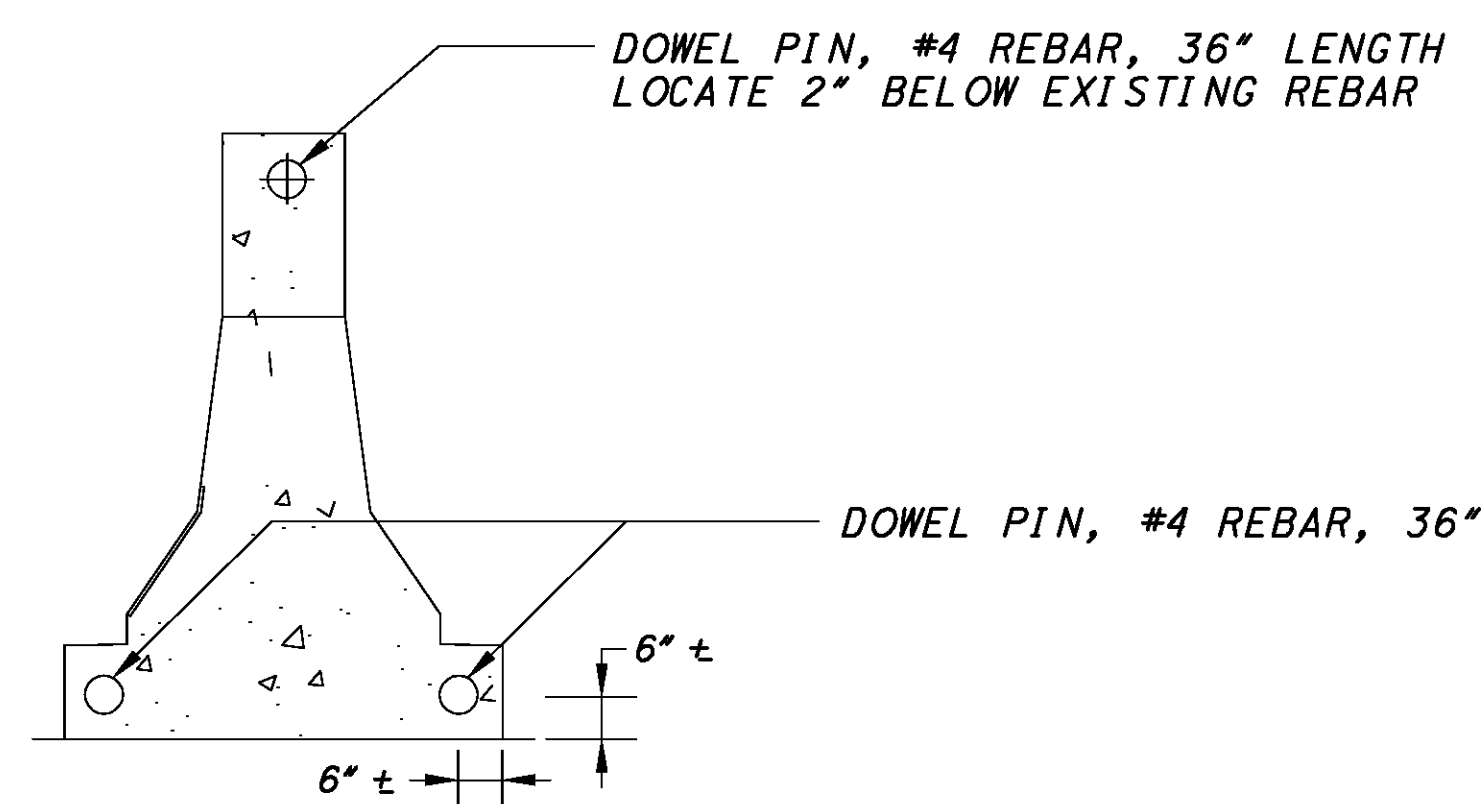
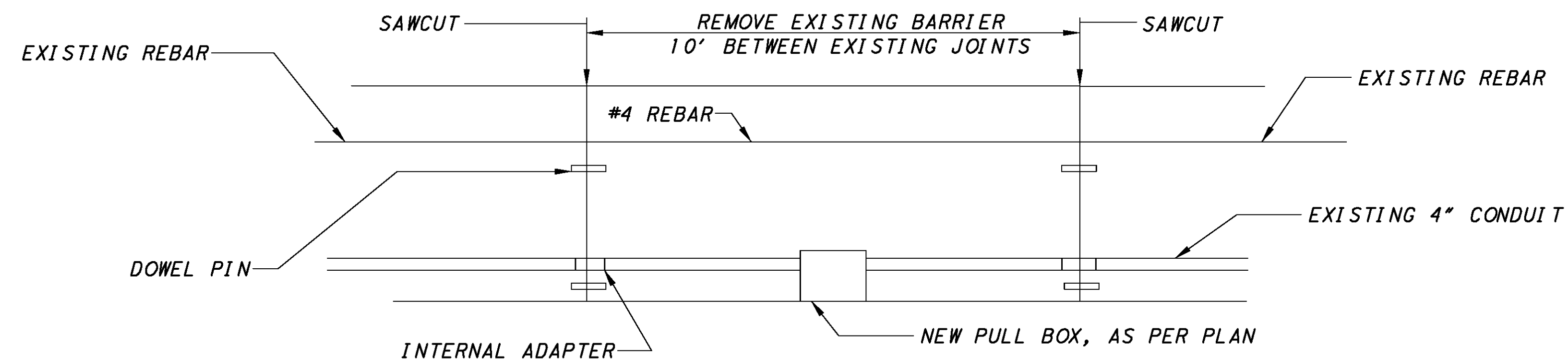
SURVEILLANCE PULL BOX AND CONDUIT  
MODIFICATIONS TO EXISTING MEDIAN PULL BOX

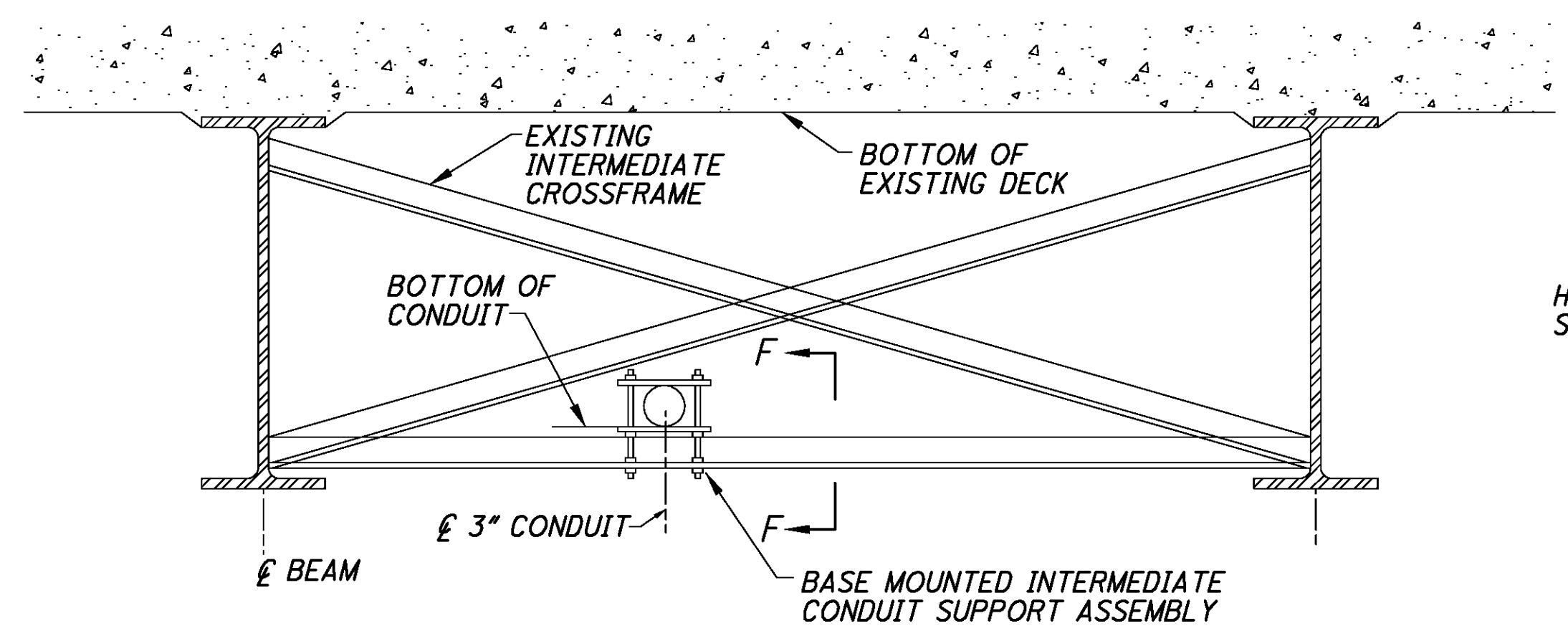
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**NOTES:**

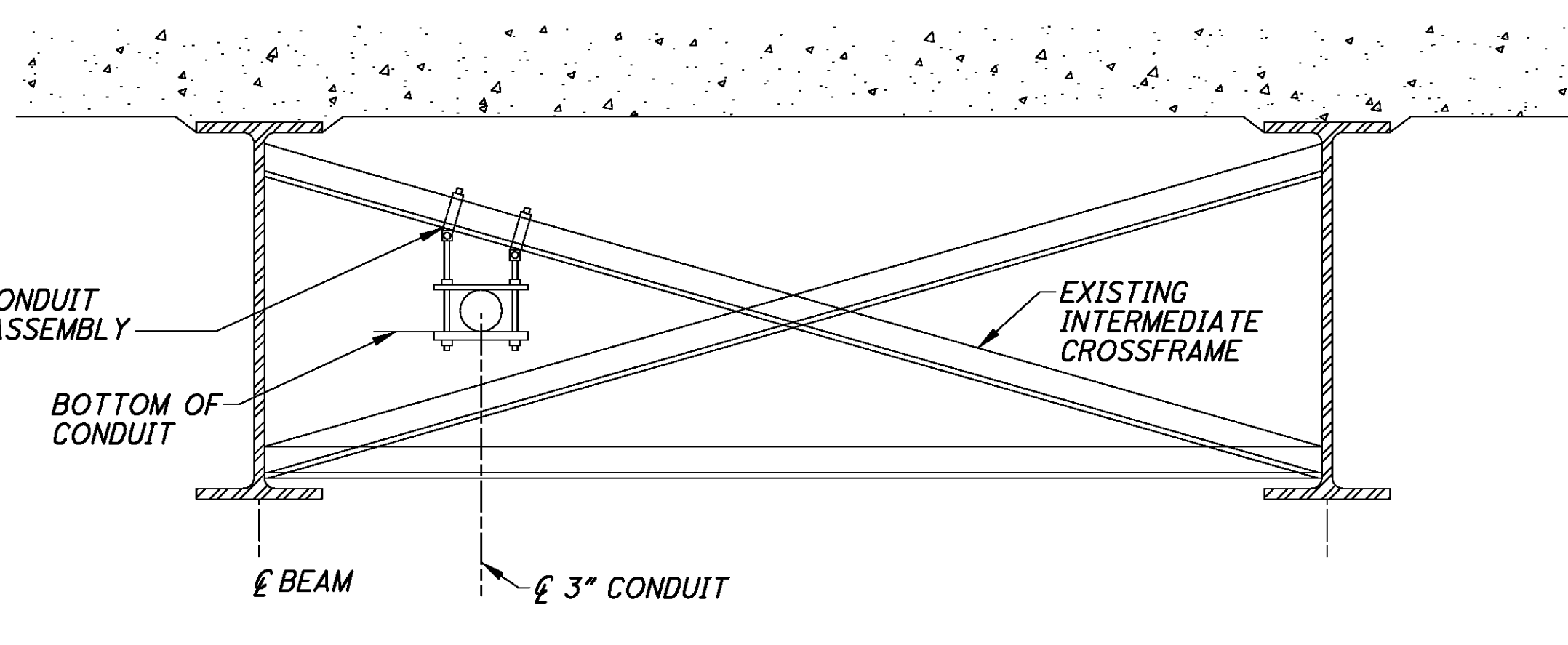
1. SAWCUT EXISTING BARRIER AT EXISTING JOINTS. REMOVE AND DISPOSE OF ALL MATERIAL BETWEEN CUTS DOWN TO THE BASE SLAB.
2. SET DOWEL PINS, CONNECT ALL CONDUITS AND SET NEW PULL BOX AS SHOWN
3. POUR NEW CONCRETE. EXISTING BARRIER SHALL BE COATED WITH A BONDING COMPOUND, IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS, BEFORE THE POUR IS STARTED
4. PAYMENT SHALL BE FOR ITEM 625, 36" PULL BOX IN EXISTING BARRIER AS PER PLAN, EACH, AND SHALL INCLUDE ALL REMOVAL, STEEL, CONDUIT, PULL BOX AND CONCRETE ITEMS.
5. THE CONTRACTOR SHALL ASSURE THAT THE REMOVAL AND REPLACEMENT OF MEDIAN BARRIER PROVIDES MINIMAL RISK TO MOTORISTS. UPON REMOVAL OF THE SECTIONS OF BARRIER TO BE REPLACED, THE CONTRACTOR SHALL INSTALL TWO TEMPORARY STEEL GUARDRAIL SECTIONS OF DOUBLE THICKNESS (NESTED) ACROSS THE OPENING ON EACH SIDE OF THE BARRIER. EACH END OF EACH SECTION SHALL BE BOLTED TO THE BARRIER USING FORMED END SECTIONS AND WEDGE BOLTS OF THE SIZE AND QUANTITY SHOWN ON STANDARD DRAWING GR-3.2. THE TEMPORARY STEEL GUARDRAIL SHALL BE IN PLACE WITHIN 8 HOURS OF REMOVAL OF A SEGMENT OF BARRIER. AS AN ALTERNATE, THE CONTRACTOR MAY POUR THE REPLACEMENT CONCRETE BARRIER THE SAME DAY AS THE ORIGINAL SECTION IS REMOVED.
6. WORK FOR THE "REPLACEMENT BARRIER AND RACEWAY" ITEM SHALL BE THE SAME, EXCEPT A MEDIAN PULLBOX IS NOT USED.

**REPLACEMENT MEDIAN BARRIER**  
**NEW OR REPLACEMENT MEDIAN PULL BOX IN EXISTING BARRIER**

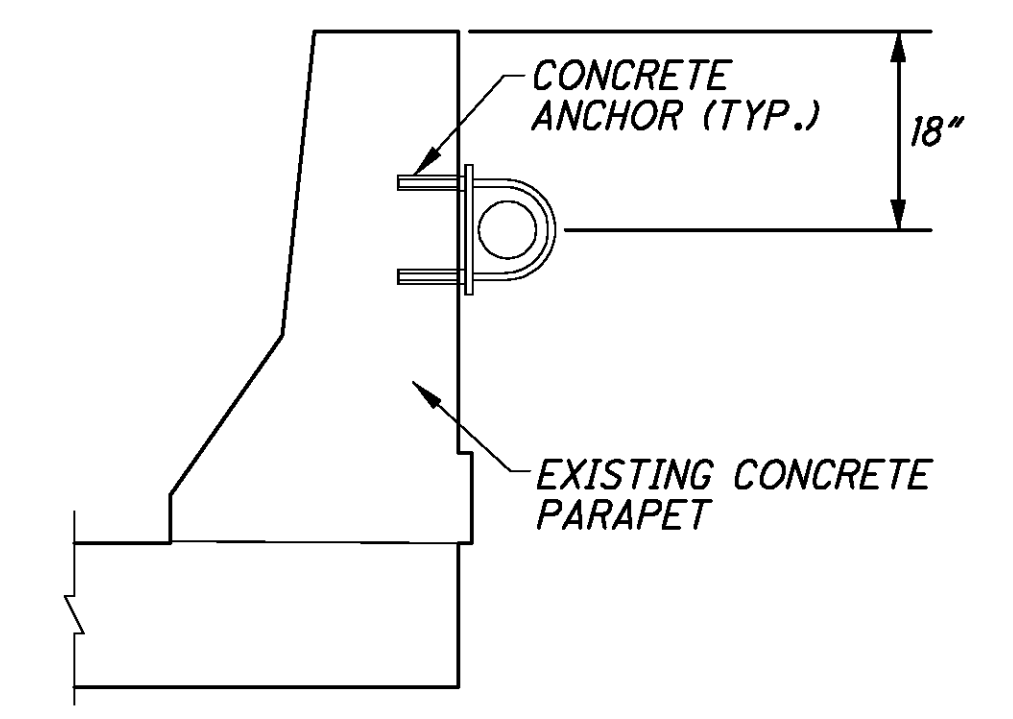




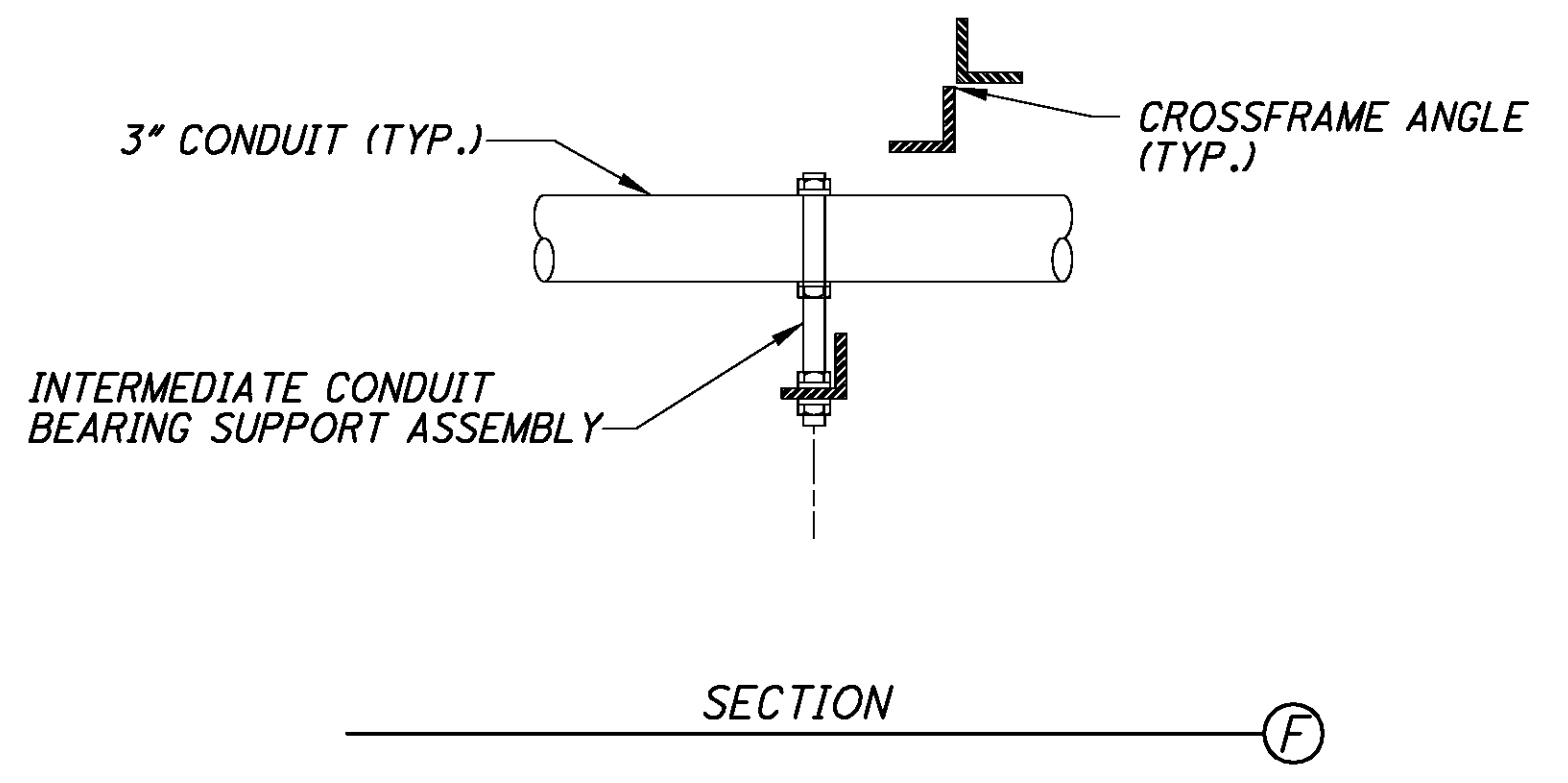
CONDUIT BEARING ATTACHMENT



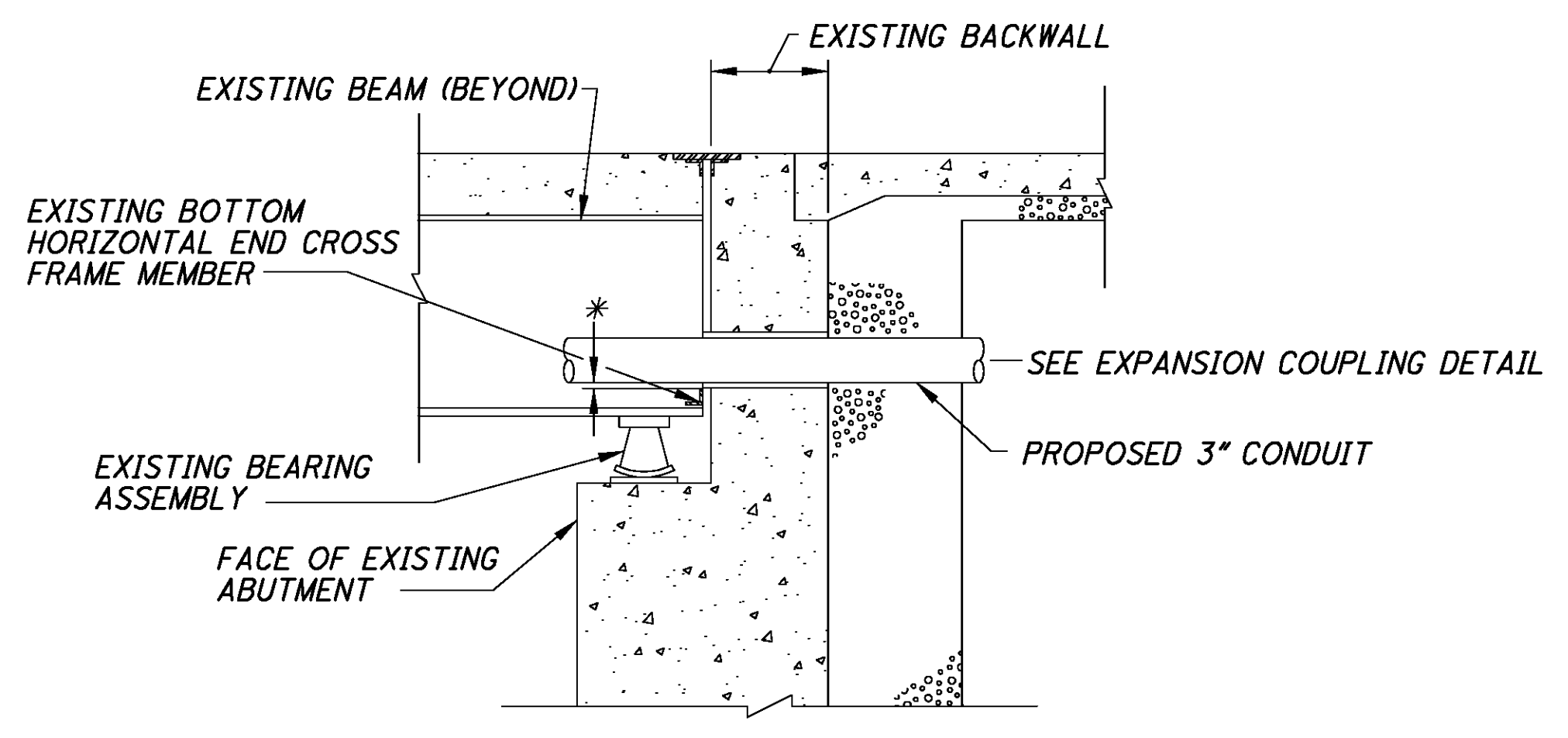
CONDUIT HANGING ATTACHMENT



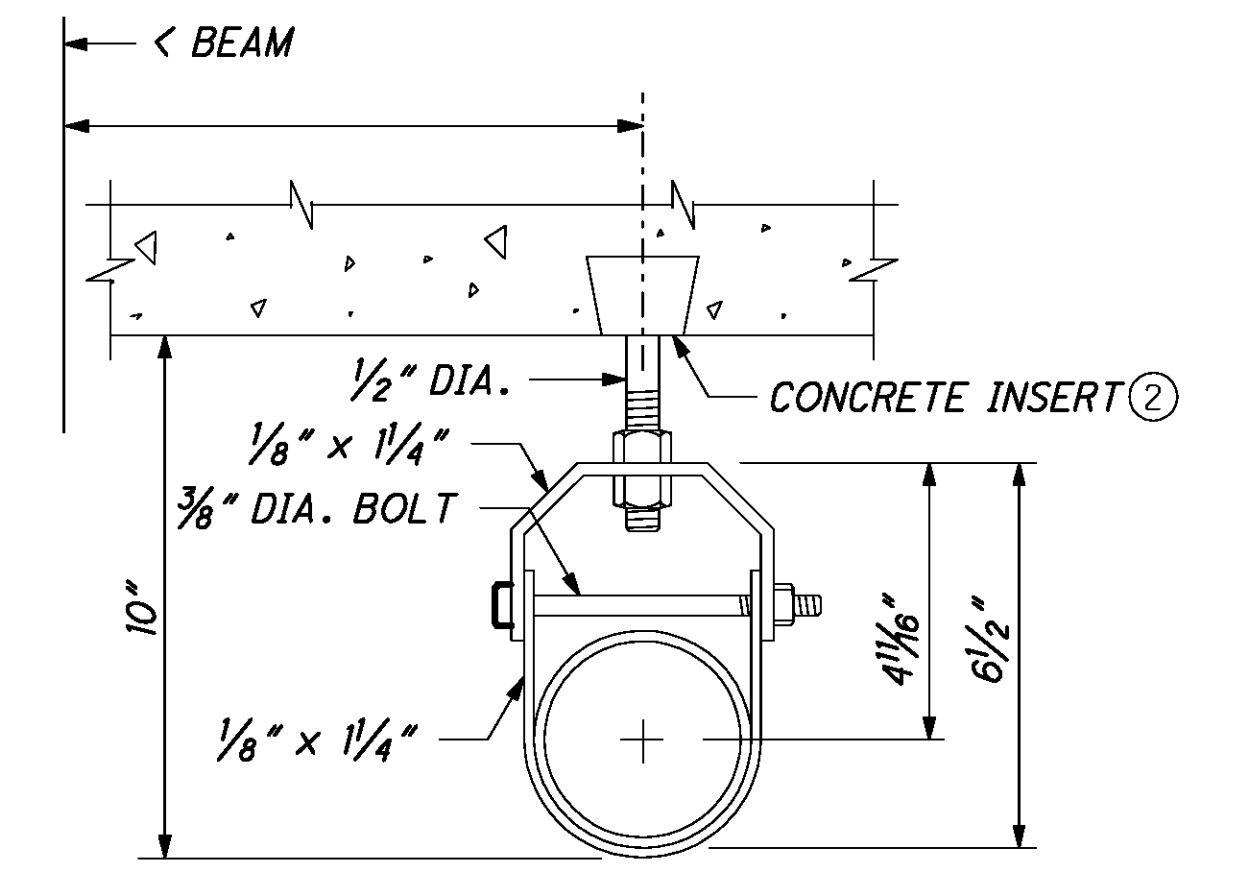
CONDUIT ATTACHMENT TO PARAPET OR BACK OF BARRIER WALL



SECTION

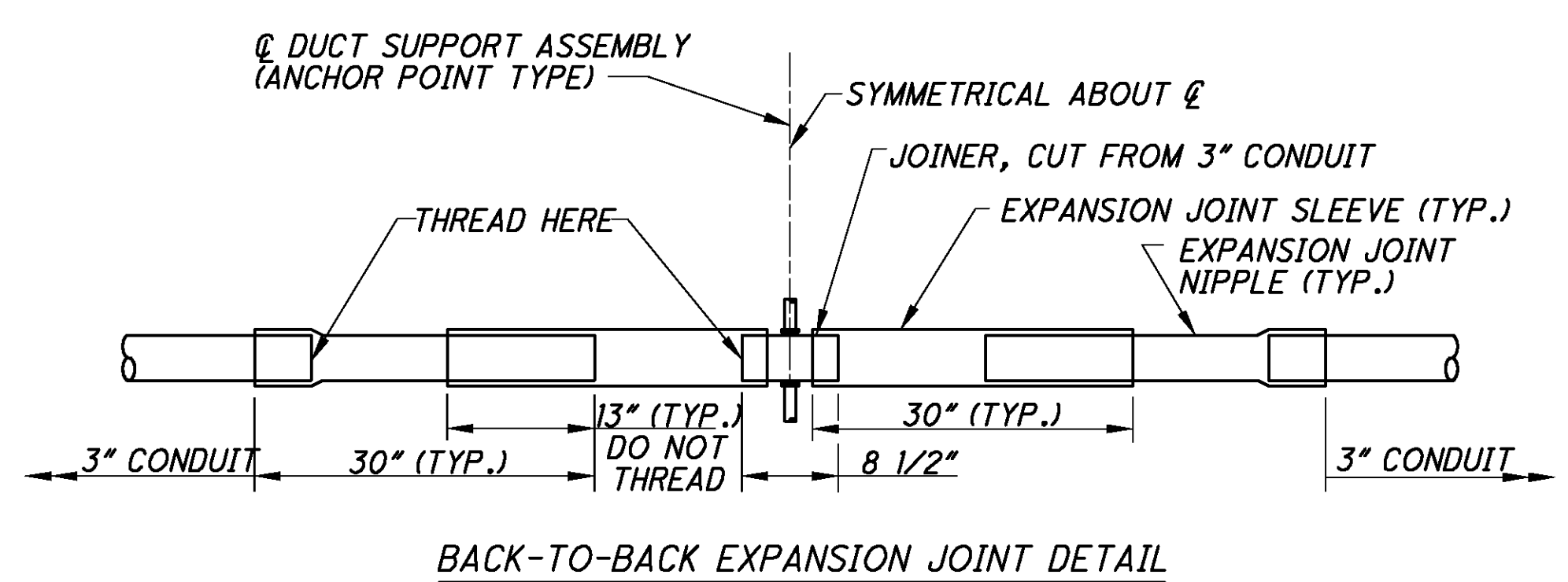


TYPICAL ABUTMENT SECTION  
NOTE: EXISTING REINFORCING BARS NOT SHOWN.  
(\* - MAINTAIN MIN. 3/8\"/>

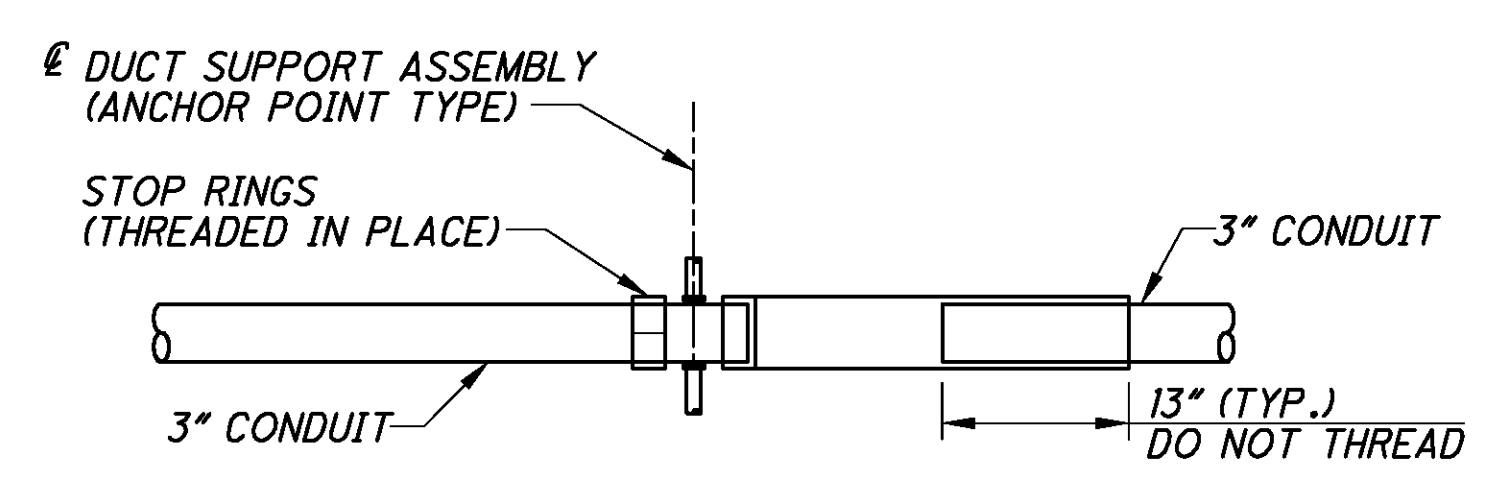


CONDUIT HANGER DETAIL (FOR CONDUIT SYSTEM)

TYPICAL CONDUIT ATTACHMENT DETAILS



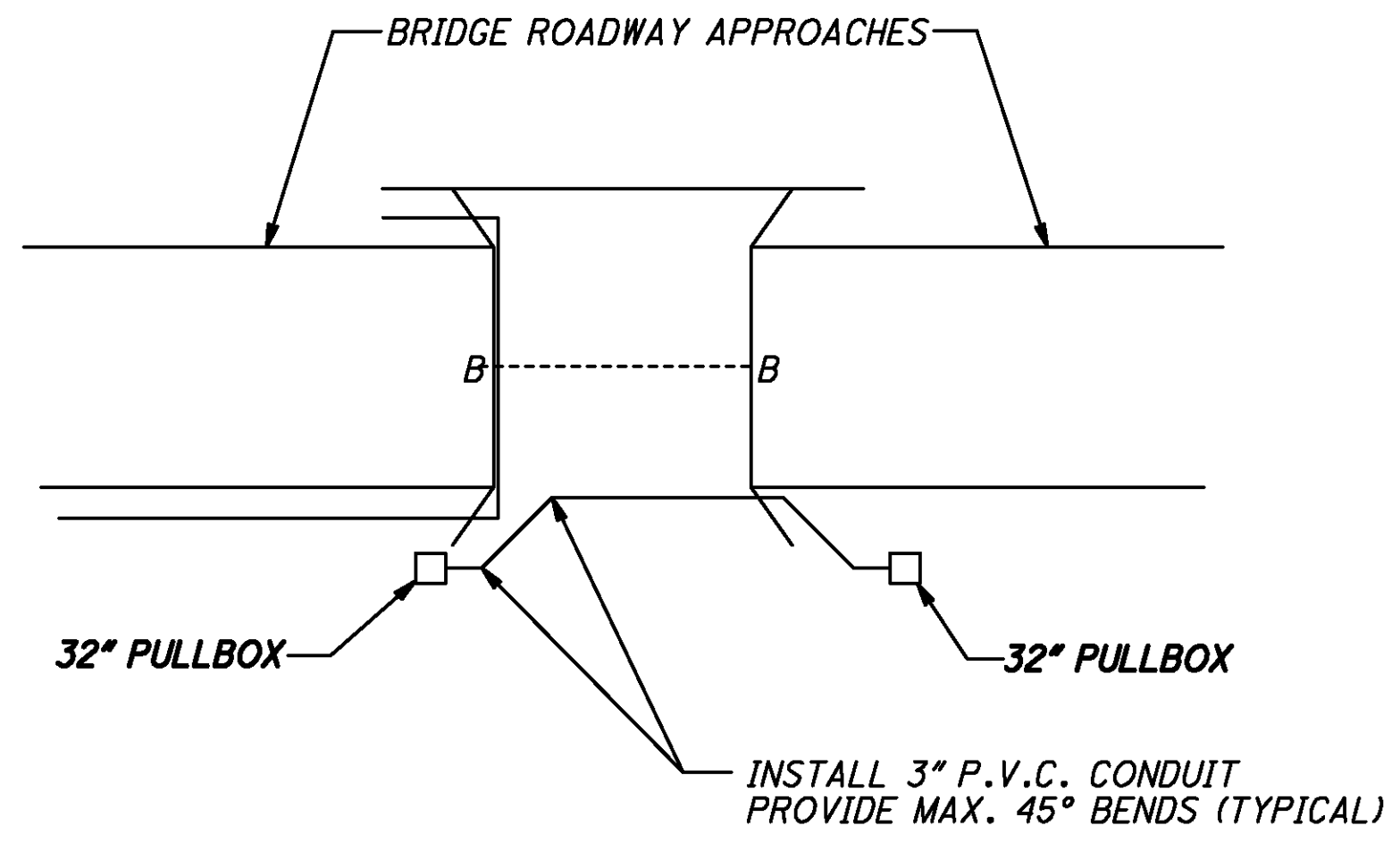
BACK-TO-BACK EXPANSION JOINT DETAIL



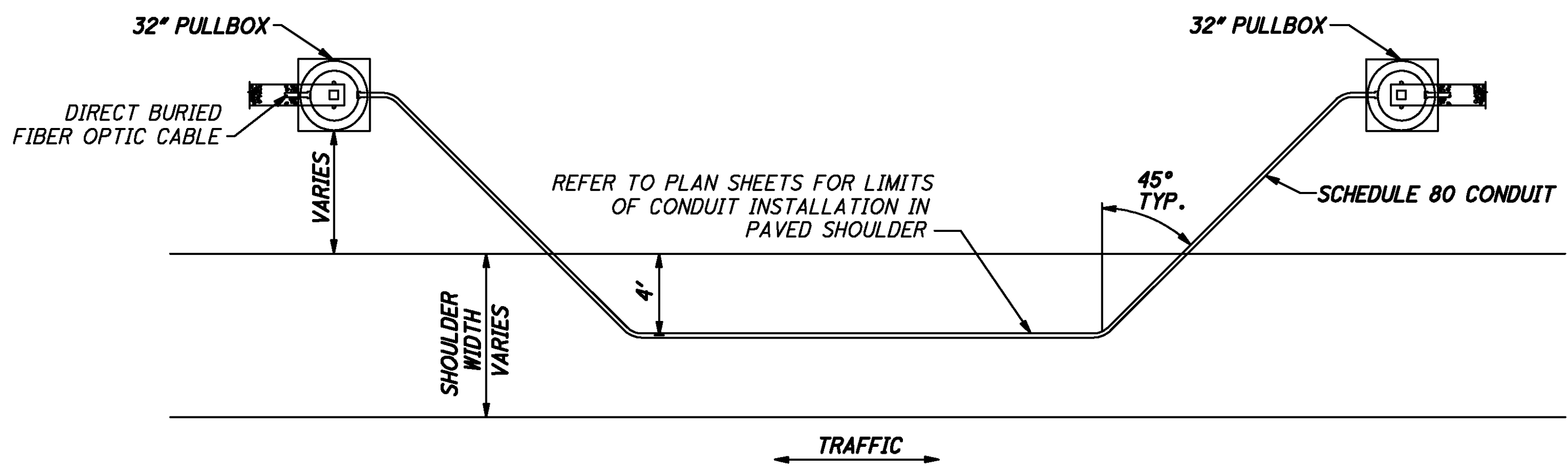
COMBINATION STOP RING AND EXPANSION JOINT

TYPICAL EXPANSION JOINT DETAILS

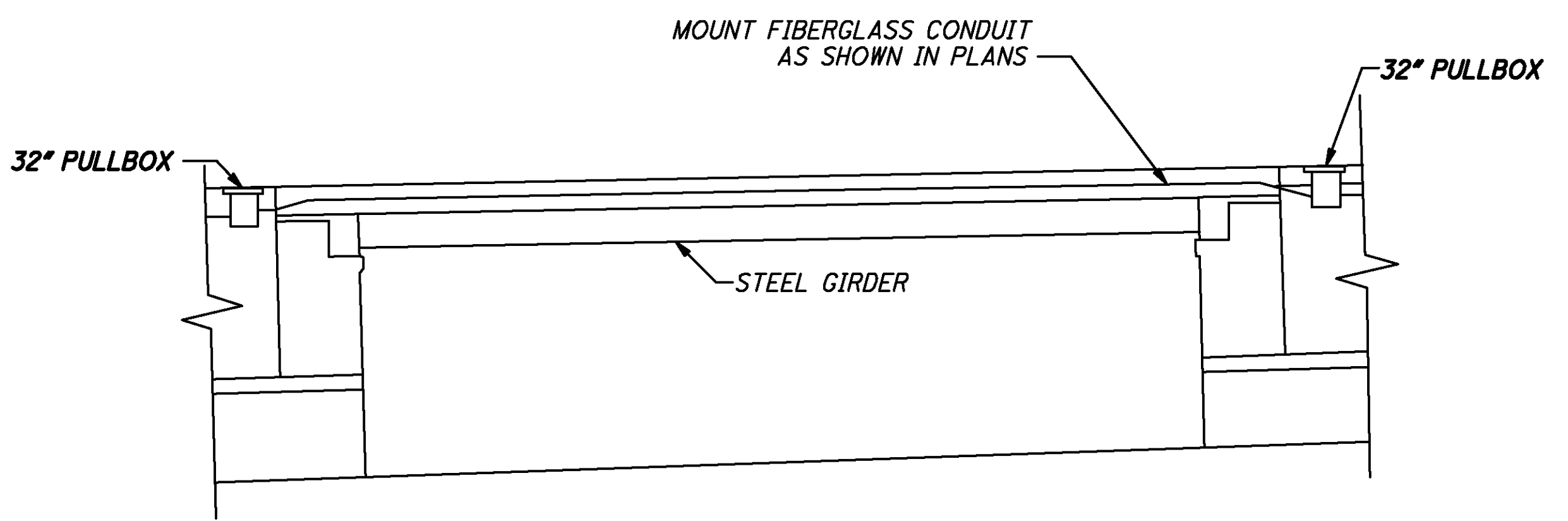
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PLAN VIEW

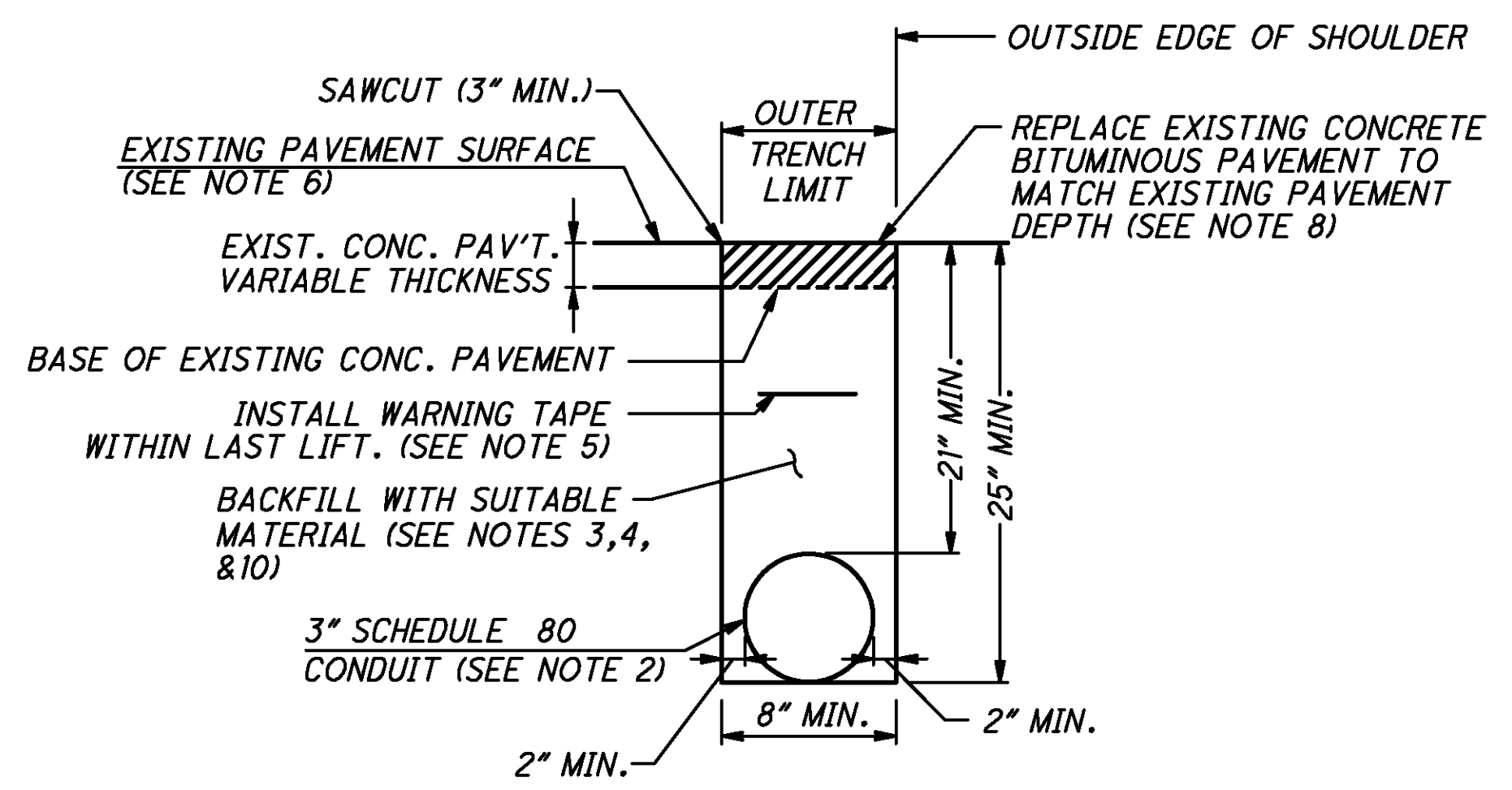


CONDUIT TRANSITION INTO PAVED SHOULDER  
N.T.S.

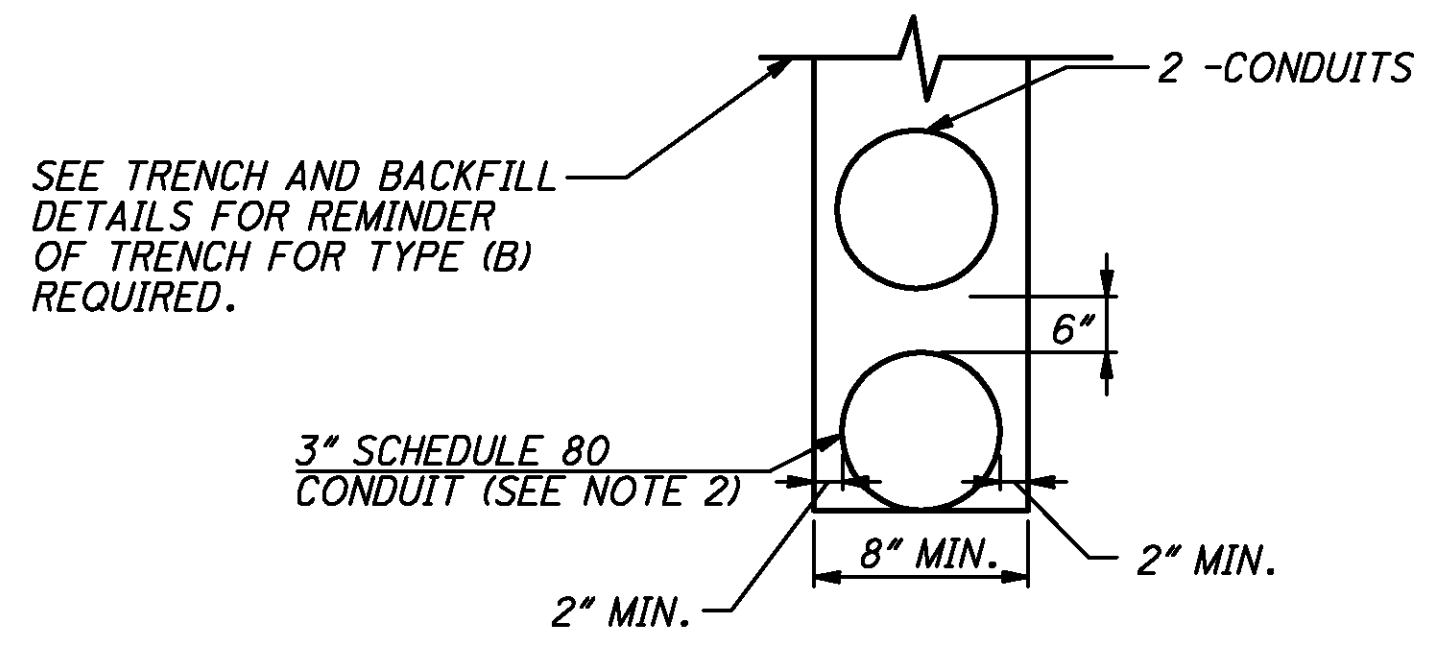


SECTION B-B

TYPICAL CONDUIT ATTACHMENT DETAILS  
DETAIL "A"  
N.T.S.



TYPE B  
IN PAVED SHOULDER  
NOT TO SCALE



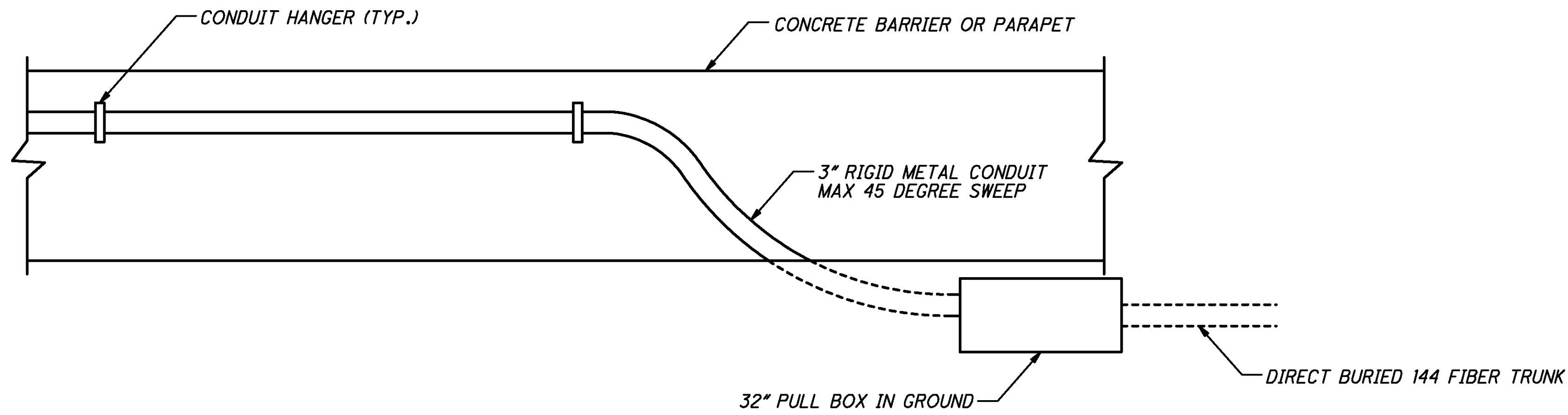
TRENCH WITH TWO OR MORE CONDUITS  
NOT TO SCALE

NOTES:

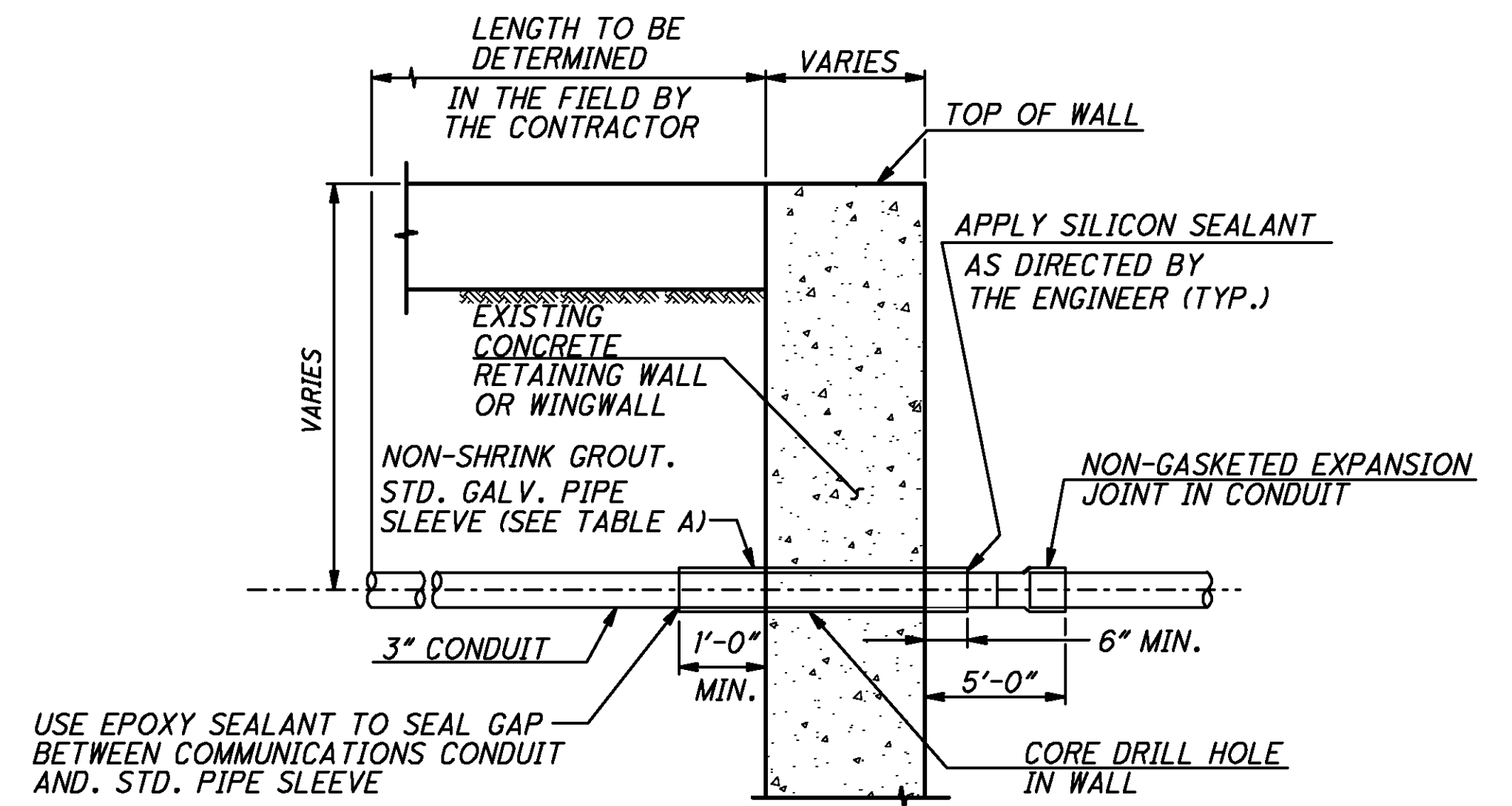
1. REMOVE AND STORE TOPSOIL FROM THE EXCAVATION. DISPOSE OF ALL UNSUITABLE MATERIAL BEFORE BACKFILLING.
2. CENTER THE PVC MULTIDUCT CONDUIT IN THE TRENCH AND HOLD FIRMLY IN PLACE WHILE THE TRENCH IS BACKFILLED.
3. PROVIDE BACKFILL MATERIAL IN ACCORDANCE WITH THE SPECIAL PROVISIONS OF THIS CONTRACT (INCIDENTAL).
4. PLACE THE BACKFILL MATERIAL IN EQUAL LIFTS. EACH LIFT SHALL BE 8" MAXIMUM AND THOROUGHLY COMPACTED WITH A VIBRATORY PLATE COMPACTOR. (MINIMUM OF TWO COMPLETE PASSES OVER THE ENTIRE WIDTH OF THE TRENCH PER LIFT). COMPACT WITH A RATED IMPACT FORCE OF 8,000 TO 16,000 POUNDS AT 1,600 RPM AND WITHIN A TRENCH DEPTH OF 56".
5. INSTALL A 4 MIL PLASTIC ORANGE WARNING TAPE WITHIN THE ENTIRE LENGTH OF TRENCH.
6. SAWCUT ALL TRENCH INSTALLATIONS IN PAVED AREAS A MINIMUM 3" DEPTH AT OUTER TRENCH LIMIT AS INDICATED. EXCAVATED OUTER TRENCH LIMIT FOR PAVED ROADWAY OR RAMP AREAS 12" BEYOND THE 8" TRENCH WIDTH (BOTH SIDES). EXCAVATE THE OUTER TRENCH LIMIT FOR A PAVED SHOULDER 8" TRENCH WIDTH ONLY. EXCAVATE OUTER TRENCH LIMIT WIDTH IN PAVED ROADWAY, RAMP OR SHOULDER AREAS DOWN TO THE TOP OF THE EXISTING SUBBASE. EXCAVATE THE TRENCH WIDTH ONLY TO THE DEPTH INDICATED FOR PAVED SHOULDER AREAS, AND ALSO EXCAVATE THE TRENCH WIDTH ONLY FOR THE DEPTH BELOW EXISTING SUBBASE FOR PAVED ROADWAY AND RAMP AREAS.
7. FOR TYPE B TRENCH AND BACKFILL, REPLACE REMOVED CONCRETE PAVEMENT USING HIGH EARLY STRENGTH CEMENT CONCRETE. REPLACE ANY EXPANSION JOINTS AND DOWELS IN KIND (INCIDENTAL). REPLACE ANY ADDITIONAL BITUMINOUS MATERIAL ENCOUNTERED DURING TRENCHING OPERATIONS WITH BITUMINOUS BINDER COURSE, ID-2 (INCIDENTAL).
8. MAINTAIN ALL EXISTING SHOULDER CROSS SLOPES AND RESTORE ANY "RUMBLE STRIPS" ENCOUNTERED.
9. REPLACE SUBBASE ENCOUNTERED BENEATH EXISTING ROADWAY OR RAMP PAVEMENTS AND/OR SHOULDERS. REPLACE WITH SUBBASE (NO. 2A), MATCHING THE EXISTING SUBBASE DEPTH.
10. MINIMUM DIMENSION FROM TOP OF TRENCH TO TOP OF UPPER LAYER OF CONDUIT SHALL BE 36" IN UNPAVED AREAS.

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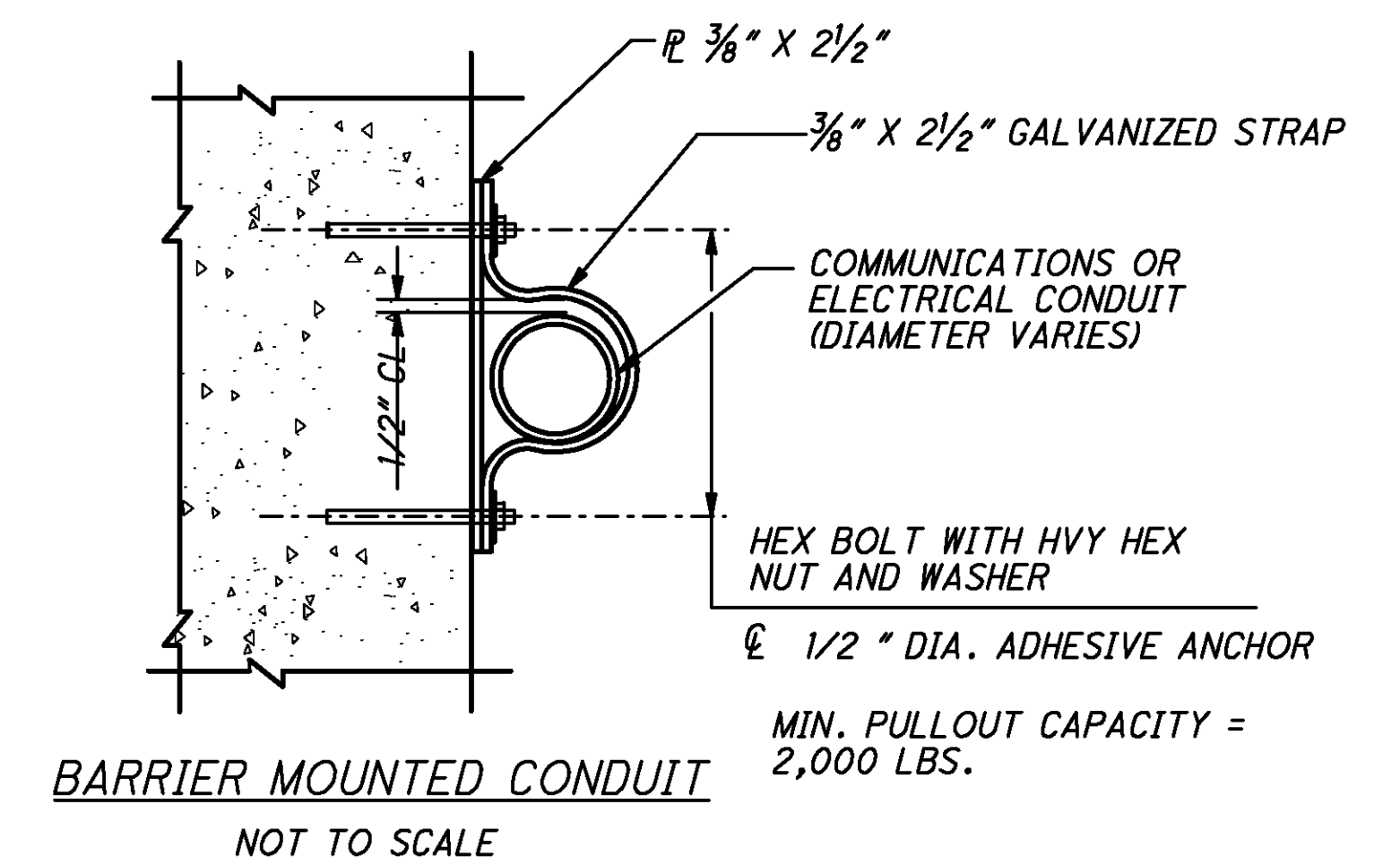




CONDUIT TRANSITION TO BARRIER  
NOT TO SCALE



TYPICAL SECTION THROUGH WALL  
(ABUTMENT BACKWALL, RETAINING WALL, WINGWALL OR CHEEKWALL)  
NOT TO SCALE



**LEGEND:**

**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 UTILITY.
- ③ TERMINATION OF CONTRACTOR SUPPLIED SERVICE ENTRANCE CABLE ONTO EXISTING PAD MOUNT UTILITY TRANSFORMER BY UTILITY.
- ④ EXISTING/PROPOSED ELECTRIC UTILITY POLE INSTALLED BY UTILITY.
- ⑤ EXISTING/PROPOSED ELECTRIC UTILITY PADMOUNT TRANSFORMER INSTALLED BY UTILITY

**WORK BY CONTRACTOR:**

- ① INSTALL 90° - 24" RADIUS PVC BEND, SCHEDULE 80.
- ② BURIED ELECTRIC WARNING RIBBON 12" ABOVE SERVICE LATERAL.
- ③ CONTRACTOR FURNISHED AND INSTALLED CLASS V 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 ODOT STANDARD HL-40.20. CHANNEL STRUT ATTACHED TO POLE PER DETAIL 4 ON SHEET 17.
- 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 10 FT OF EVERY ELECTRICAL SERVICE. PAYMENT OF PULL BOX IS INCIDENTAL TO THE COST OF ALL POWER SERVICES. NO ELECTRICAL SPLICES PERMITTED.
- ⑧ 5/8" x 10' COPPER CLAD GROUNDING ROD ELECTRODE. 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 4 - CONDUIT MOUNTING BRACKET 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 SERVICES OR AS REQUIRED BY UTILITY.
- ⑫ THREADED HUB TYPE CONDUIT COUPLING BETWEEN ENCLOSURES SIZED TO ACCOMADATE CONDUCTORS. SEE PLAN FOR WIRE REQUIREMENTS.
- ⑬ 1" SCHEDULE 80 PVC CONDUIT FOR GROUND.
- ⑭ 1-1/2" #4 XHHW-2 GROUNDING ELECTRODE CONDUCTOR IN CONDUIT TO DISCONNECT SWITCH NEUTRAL BUS.
- ⑮ GROUNDING ELECTRODE CONDUCTOR ATTACHED TO GROUNDING ELECTRODE AT LEAST 24" BELOW GRADE WITH GROUND CLAMPS SUITABLE FOR DIRECT BURIAL. 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 3" MINIMUM. TERMINATE THIS CONDUIT IN HANDHOLE. CONDUIT INSTALLED A MINIMUM OF 24" BELOW GRADE.

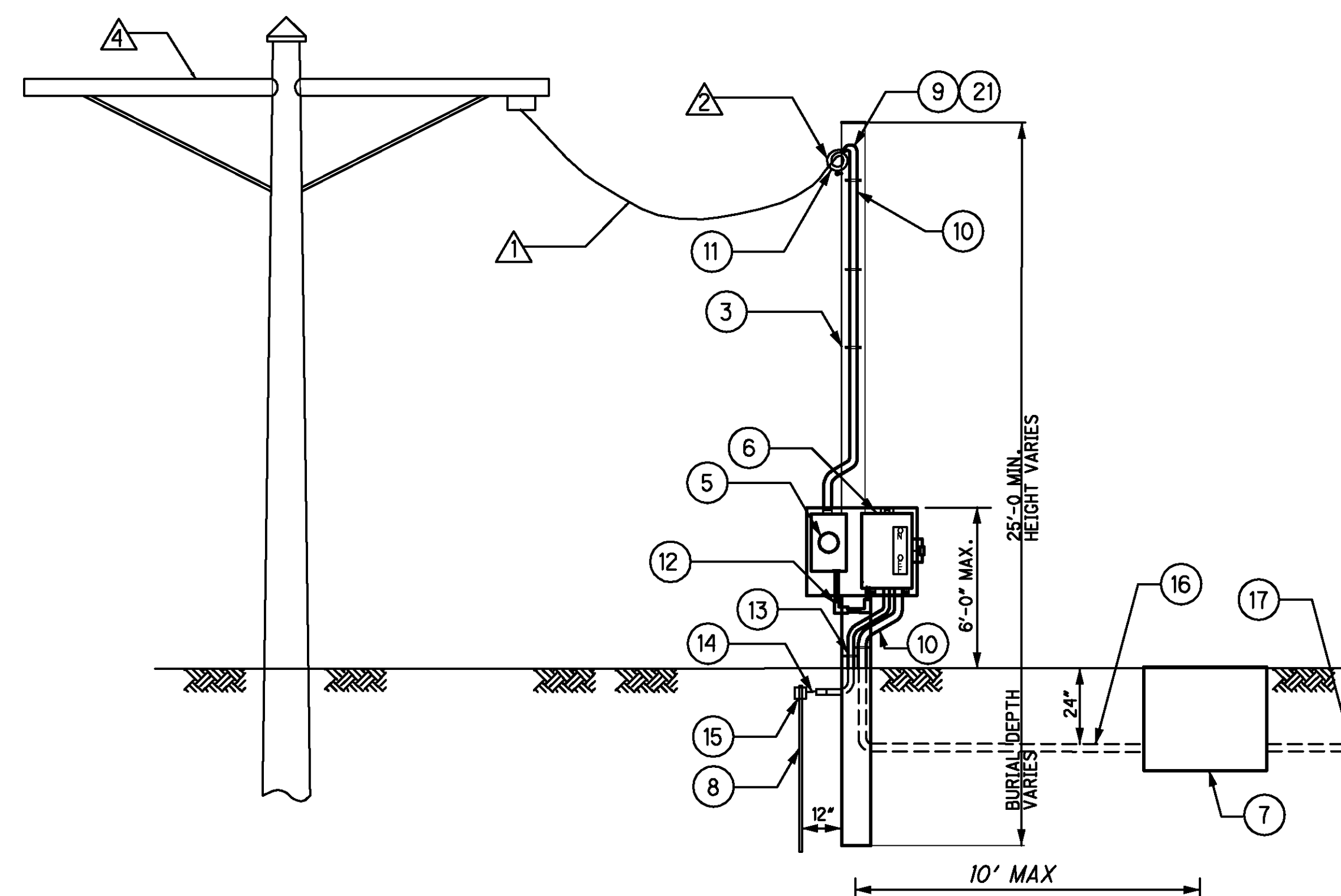
- ⑰ CONDUIT AND CABLE PER PLAN BY CONTRACTOR. NO SPLICES PERMITTED IN PULLBOX. STRIP CASING BACK FROM UNIT DUCT CABLE AND PULL CABLE THROUGH TO DISCONNECT.
- ⑱ 3" PVC SCHEDULE 40 CONDUIT INSTALLED A MINIMUM OF 30" BELOW GRADE. CONDUIT RUN IS CONTINUOUS BETWEEN EQUIPMENT STAND AND UTILITY POLE/TRANSFORMER OR AS INDICATED ON PLAN SHEETS.
- ⑲ CONTRACTOR SHALL INSTALL CONDUIT NO CLOSER THAN 2' FROM EDGE OF UTILITY TRANSFORMER PAD. APPROACH TO TRANSFORMER MUST BE COORDINATED WITH UTILITY.
- ⑳ NEMA 4X CIRCUIT BREAKER ENCLOSURE WITH TWO 2-POLE, 600V BOLT-ON TYPE CIRCUIT BREAKERS. ENCLOSURE SHALL BE SERVICE ENTRANCE RATED. PROVIDE ONE PADLOCK FOR EACH ENCLOSURE. PADLOCK SHALL BE IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
- ㉑ DO NOT EXTEND CONDUIT ABOVE THE SECONDARY OR NEUTRAL POSITION AT ANY TIME. CONDUIT SHALL MAINTAIN A MINIMUM CLEARANCE OF 6" BELOW THE SECONDARY OR NEUTRAL.

**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 IS INCIDENTAL TO POWER SERVICE PAY ITEMS.
3. OHIO EDISON AND AEP CONDUIT SYSTEMS SHALL BE INSTALLED PER NEC AND LOCAL REQUIREMENTS.
4. 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.

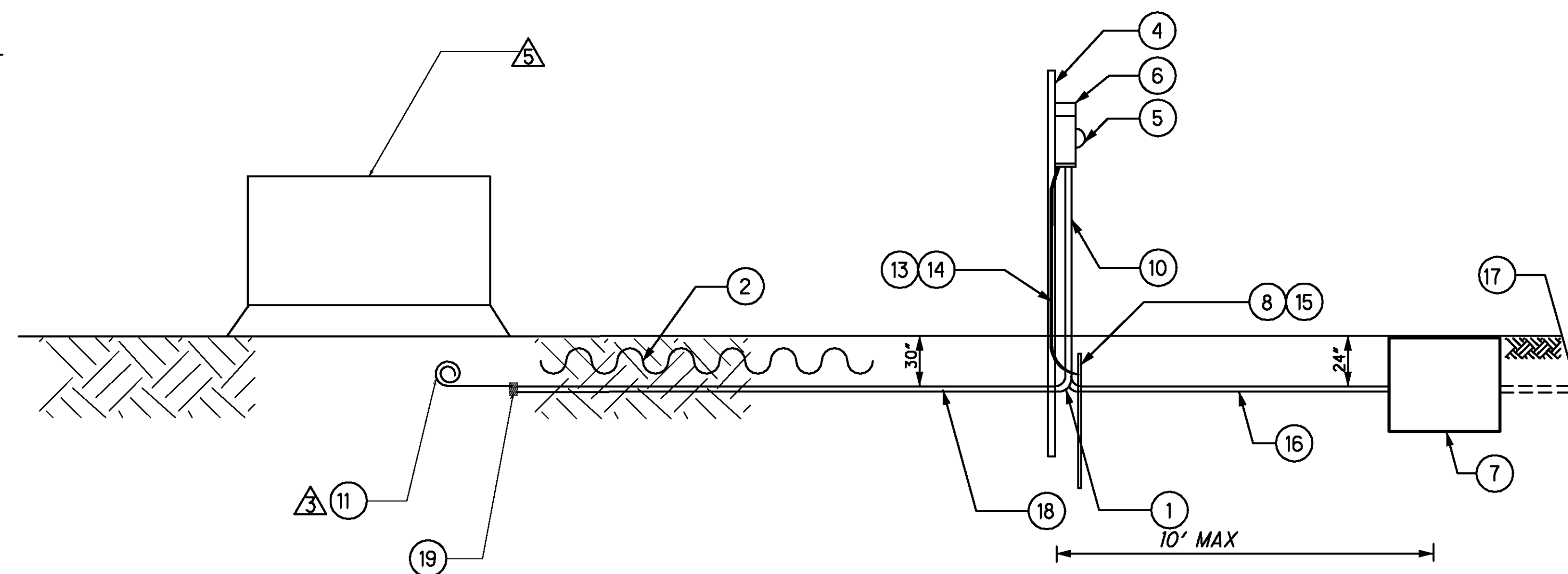
**WOOD POLE SETTING DEPTH CHART**

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"



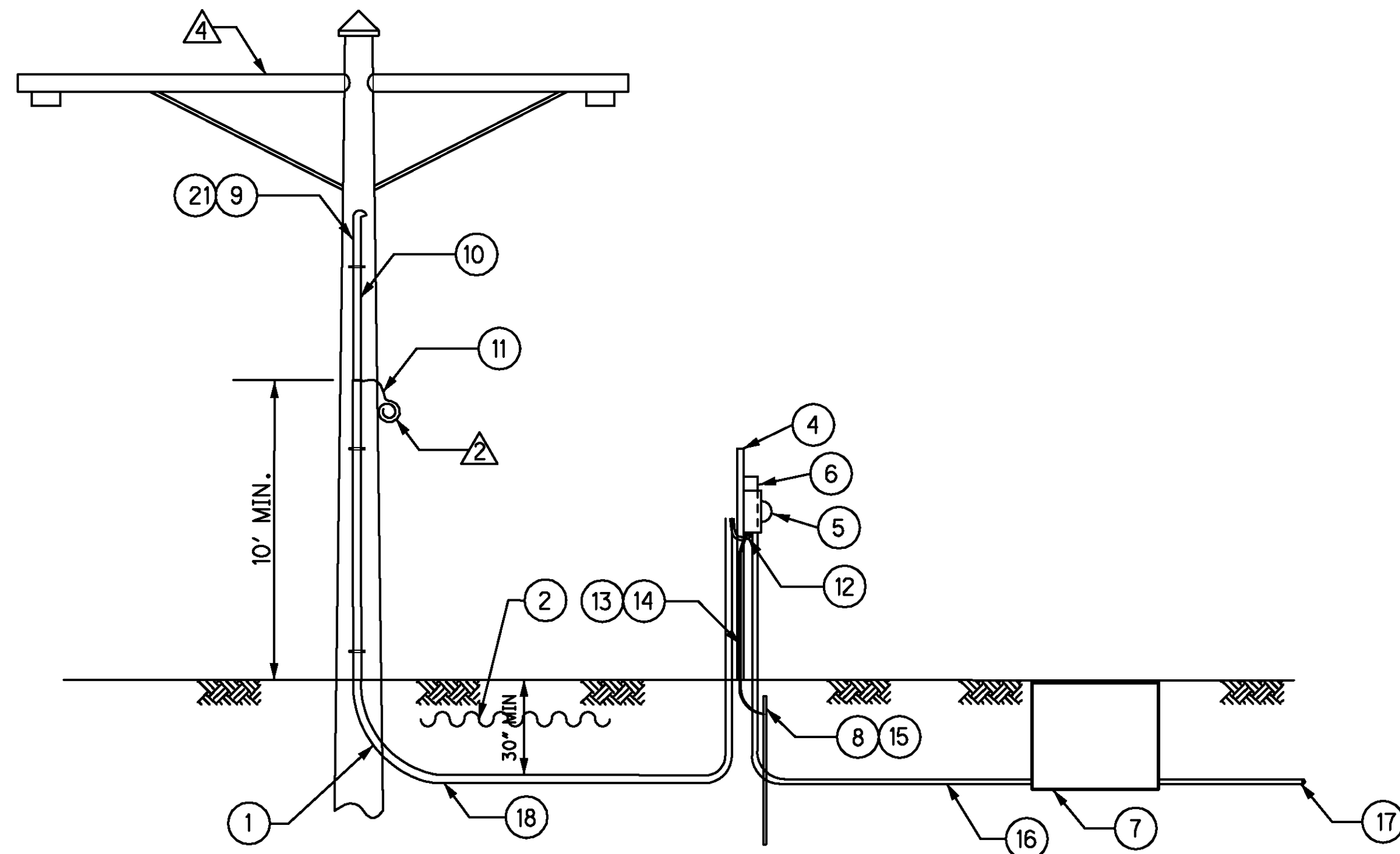
DETAIL 1 POWER SERVICE, TYPE A, 240/120V 3 WIRE, 1 PHASE, PER PLAN

\* SEE STANDARD CONSTRUCTION DRAWING HL-40.10 FOR MORE DETAILS.  
\* 60A DISCONNECTS WILL BE FUSED AT 30A.  
\* 100A DISCONNECTS WILL BE FUSED AT 80A.



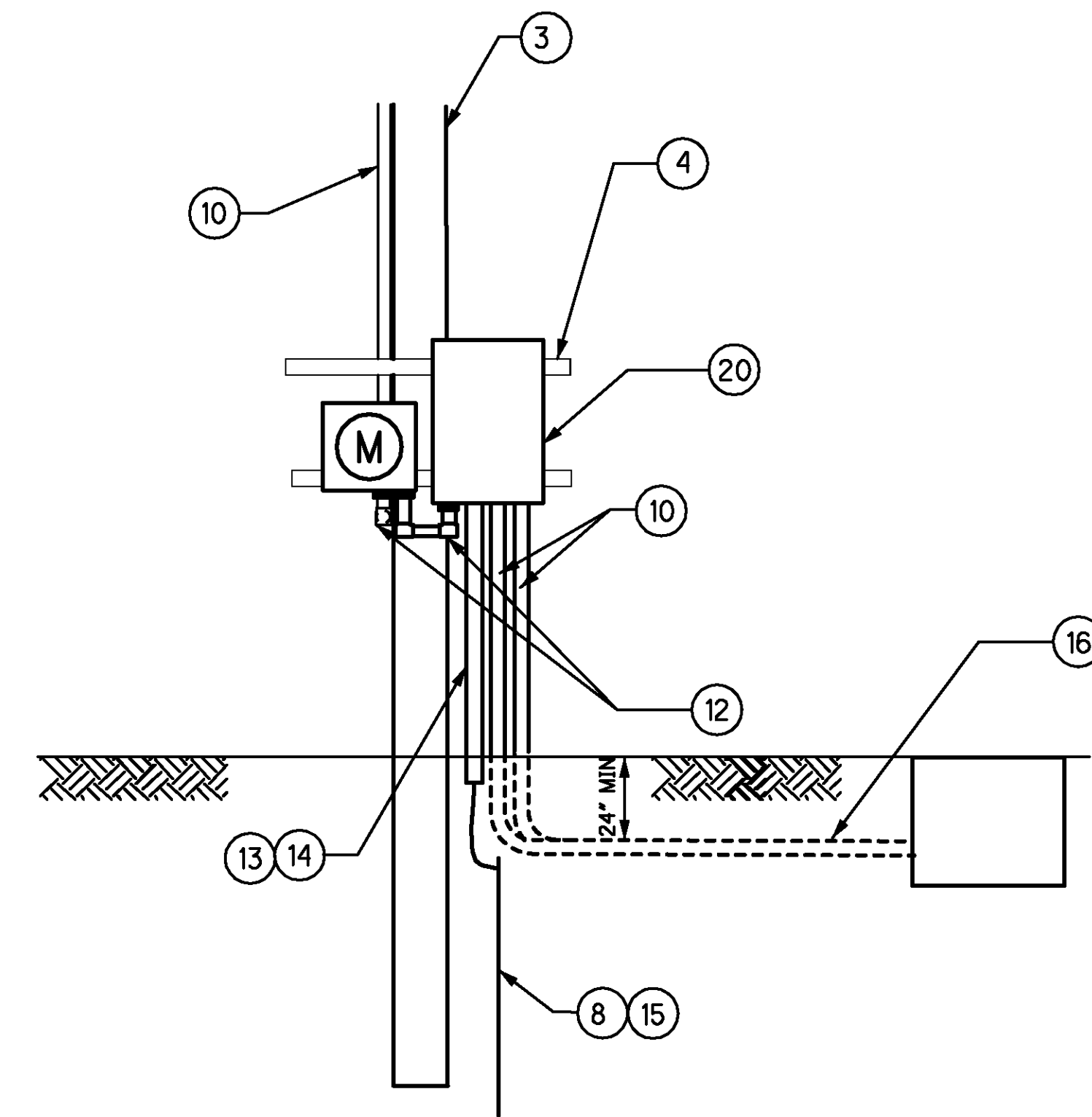
DETAIL 2 POWER SERVICE, TYPE B, 240/120V 3 WIRE, 1 PHASE, PER PLAN

\* SEE STANDARD CONSTRUCTION DRAWING HL-40.20 FOR MORE DETAILS.  
\* 30A DISCONNECTS WILL BE FUSED AT 30A.  
\* 100A DISCONNECTS WILL BE FUSED AT 80A.



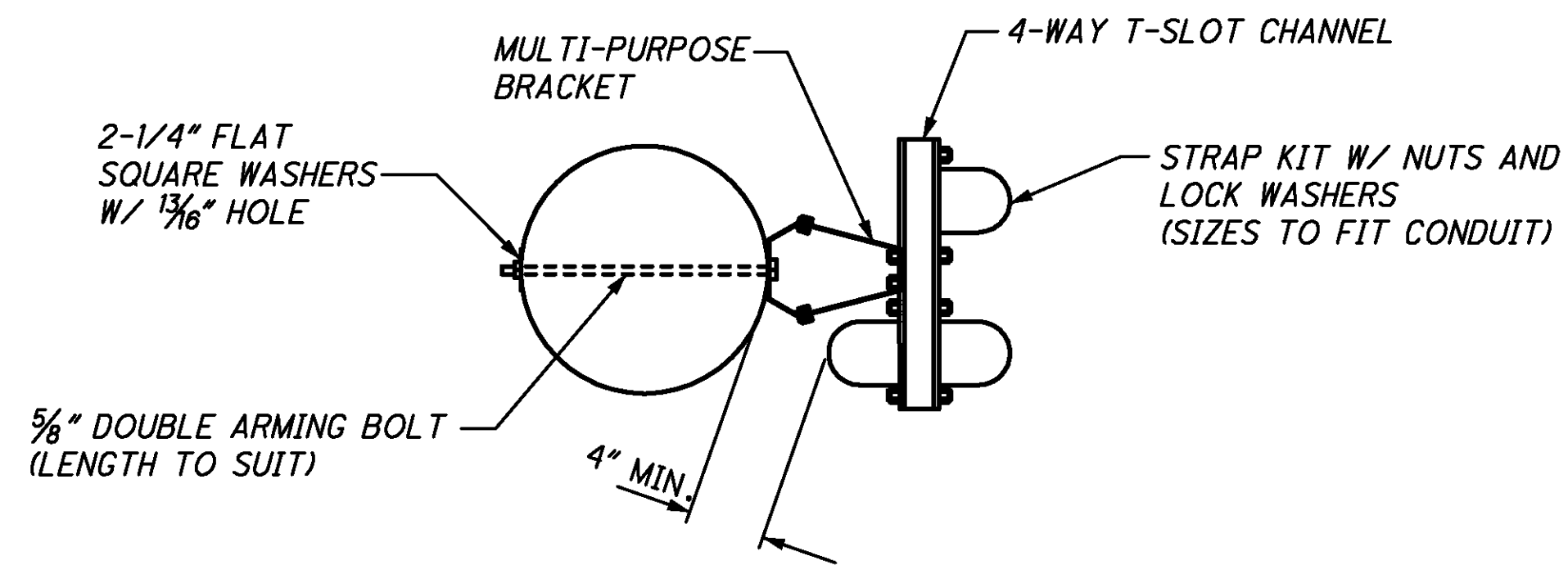
DETAIL 3 POWER SERVICE, TYPE C, 240/120V,  
3 WIRE, 1 PHASE, PER PLAN

- \*\* 200A SERVICE WITH TWO 100A CIRCUIT BREAKERS
- \* SEE STANDARD CONSTRUCTION DRAWING HL-40.20 FOR MORE DETAILS
- \* 30A DISCONNECTS WILL BE FUSED @ 30A
- \* 100A DISCONNECTS WILL BE FUSED @ 80A

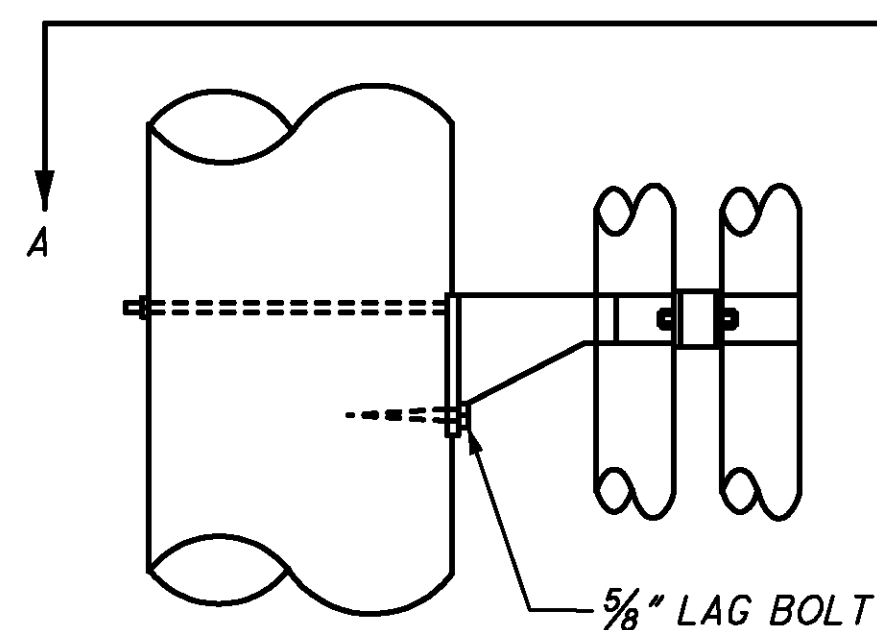


DETAIL 5 POWER SERVICE, DUAL, 240/120V,  
3 WIRE, 1 PHASE, PER PLAN

- \* CIRCUIT BREAKERS SIZED PER PLANS
- \* SEE STANDARD CONSTRUCTION DRAWING HL-40.10 FOR DOUBLE ENCLOSURE DETAILS

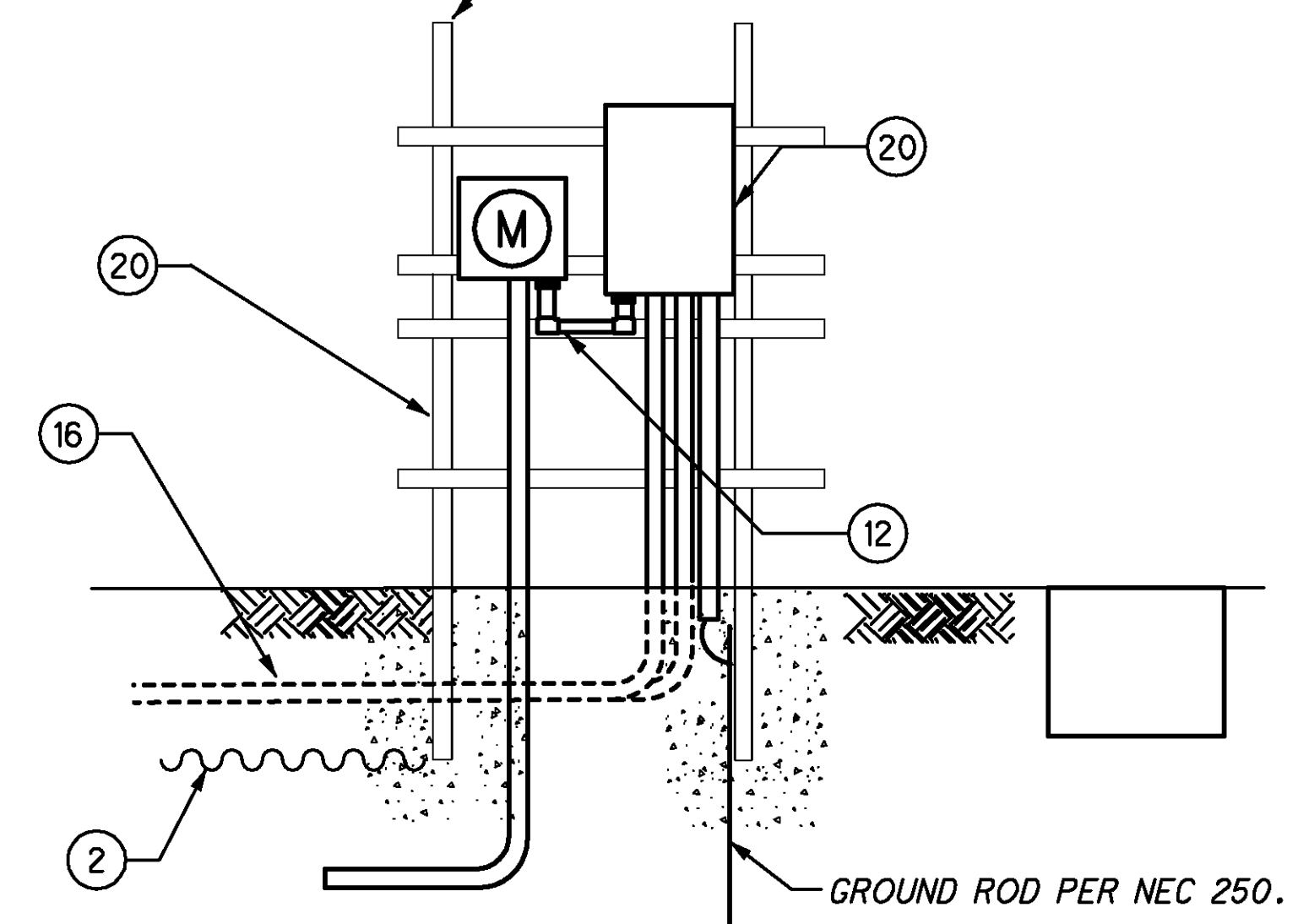


ELEVATION A-A DETAIL 4



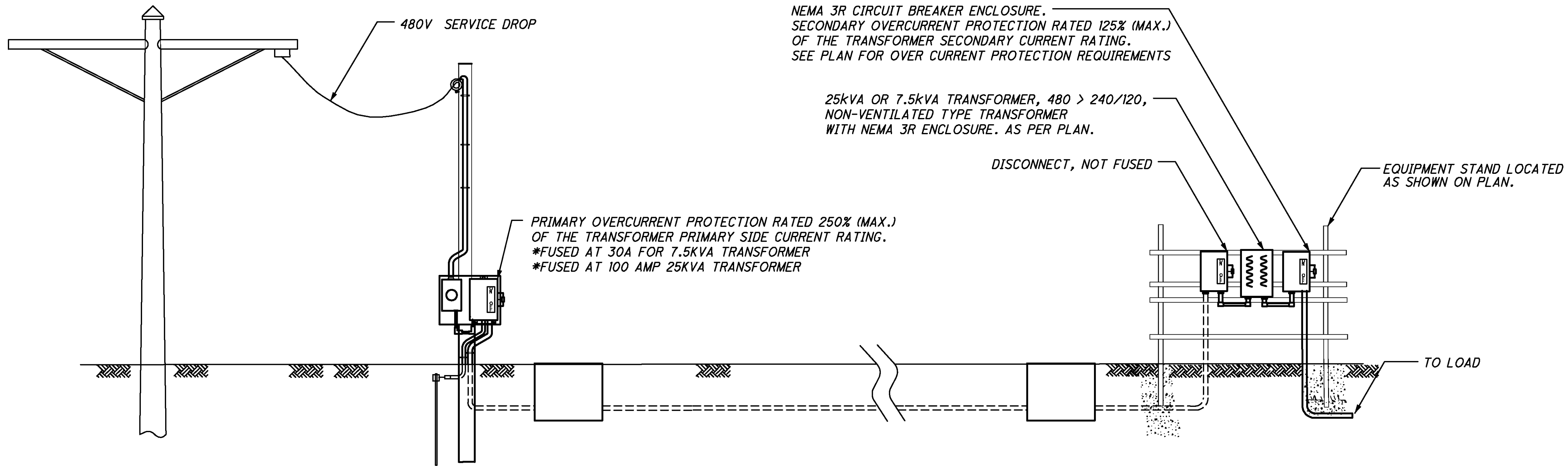
DETAIL 4 CONDUIT MOUNTING BRACKET

EQUIPMENT STAND PER ODOT  
CONSTRUCTION STANDARD  
DETAIL HL-40.20



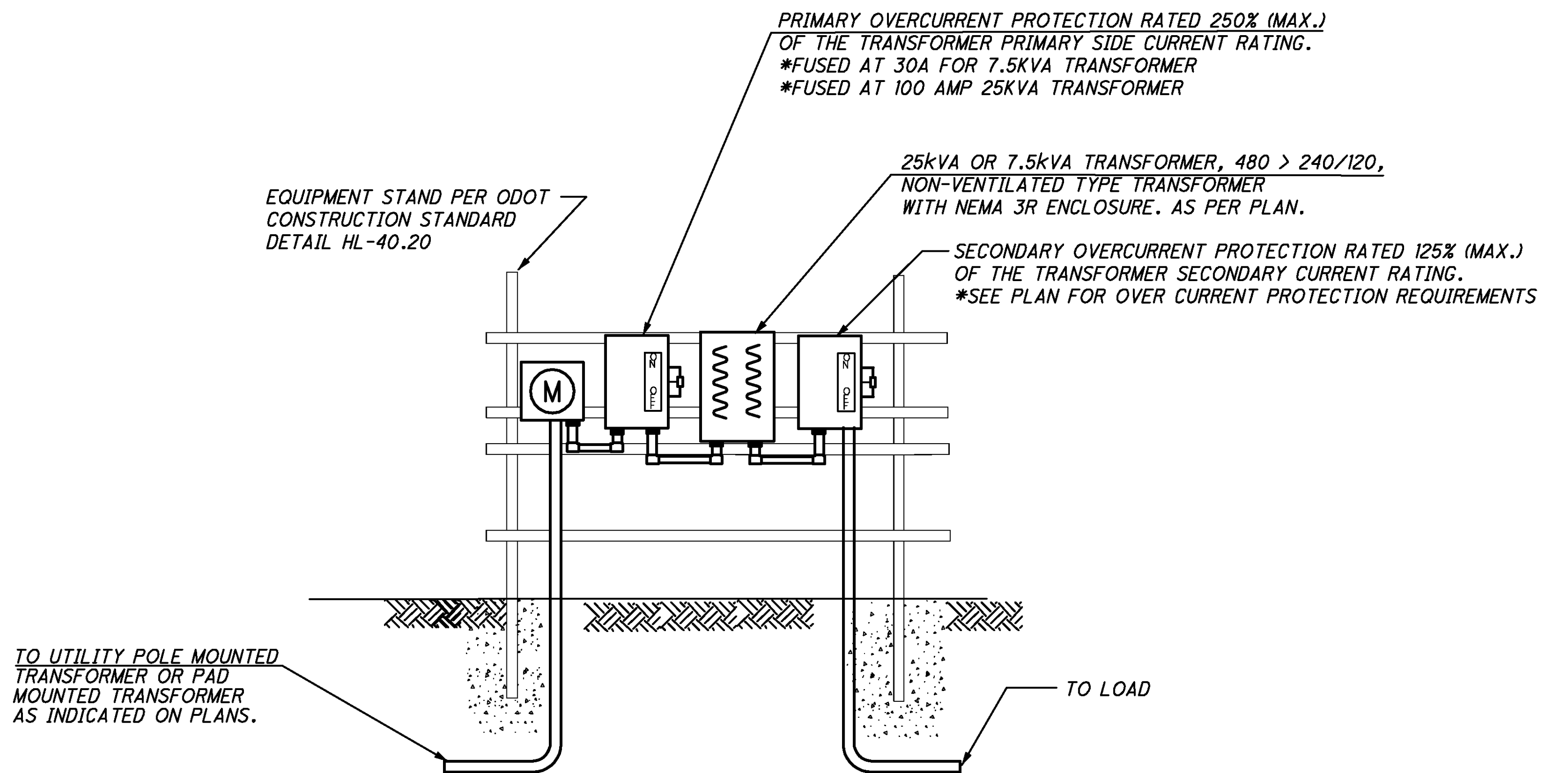
DETAIL 6 POWER SERVICE, DUAL UNDERGROUND,  
240/120V, 3 WIRE, 1 PHASE, PER PLAN

- \* CIRCUIT BREAKERS SIZED PER PLANS
- \* SEE STANDARD CONSTRUCTION DRAWING HL-40.20 FOR MORE DETAILS



DETAIL 8 POWER SERVICE, TYPE A, 480V  
3 WIRE, 1 PHASE, PER PLAN

- \* CIRCUIT BREAKERS SIZED PER PLANS
- \* SEE STANDARD CONSTRUCTION DRAWING HL-40.20 FOR MORE DETAILS
- \* SEE DETAIL 6 ON TYPICAL SINGLE LINE DIAGRAM SHEET 19.
- \* THIS DETAIL IS APPLICABLE TO SITE 076032 AND 076034 ONLY.



DETAIL 7 POWER SERVICE WITH TRANSFORMER

- \* CIRCUIT BREAKERS SIZED PER PLANS
- \* SEE STANDARD CONSTRUCTION DRAWING HL-40.20 FOR MORE DETAILS

NOTES:

1. THE ELECTRIC POWER SERVICE W/ TRANSFORMER IS PER THE ELECTRICAL DETAILS FOR TYPE A, TYPE B, AND TYPE C POWER SERVICES WITH THE FOLLOWING EXCEPTIONS:
  - A. A TRANSFORMER AND DISCONNECT ARE ADDED AS SHOWN ON THIS DETAIL.
  - B. AN EQUIPMENT STAND SHALL BE USED FOR ALL ELECTRIC POWER SERVICE TYPES TO ACCOMMODATE ALL OF THE EQUIPMENT AS SHOWN ON THIS DETAIL.

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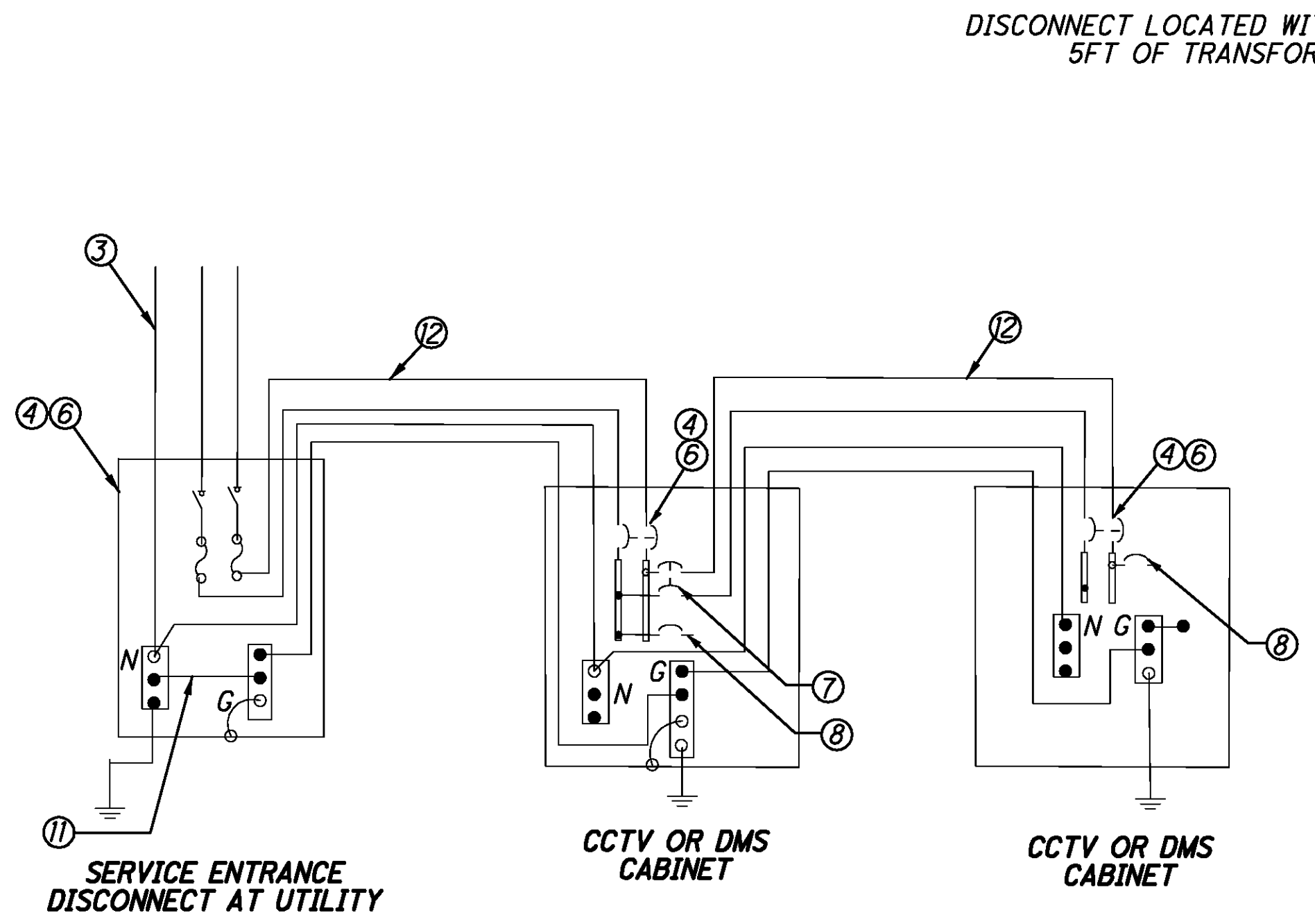


**ELECTRICAL LEGEND:**

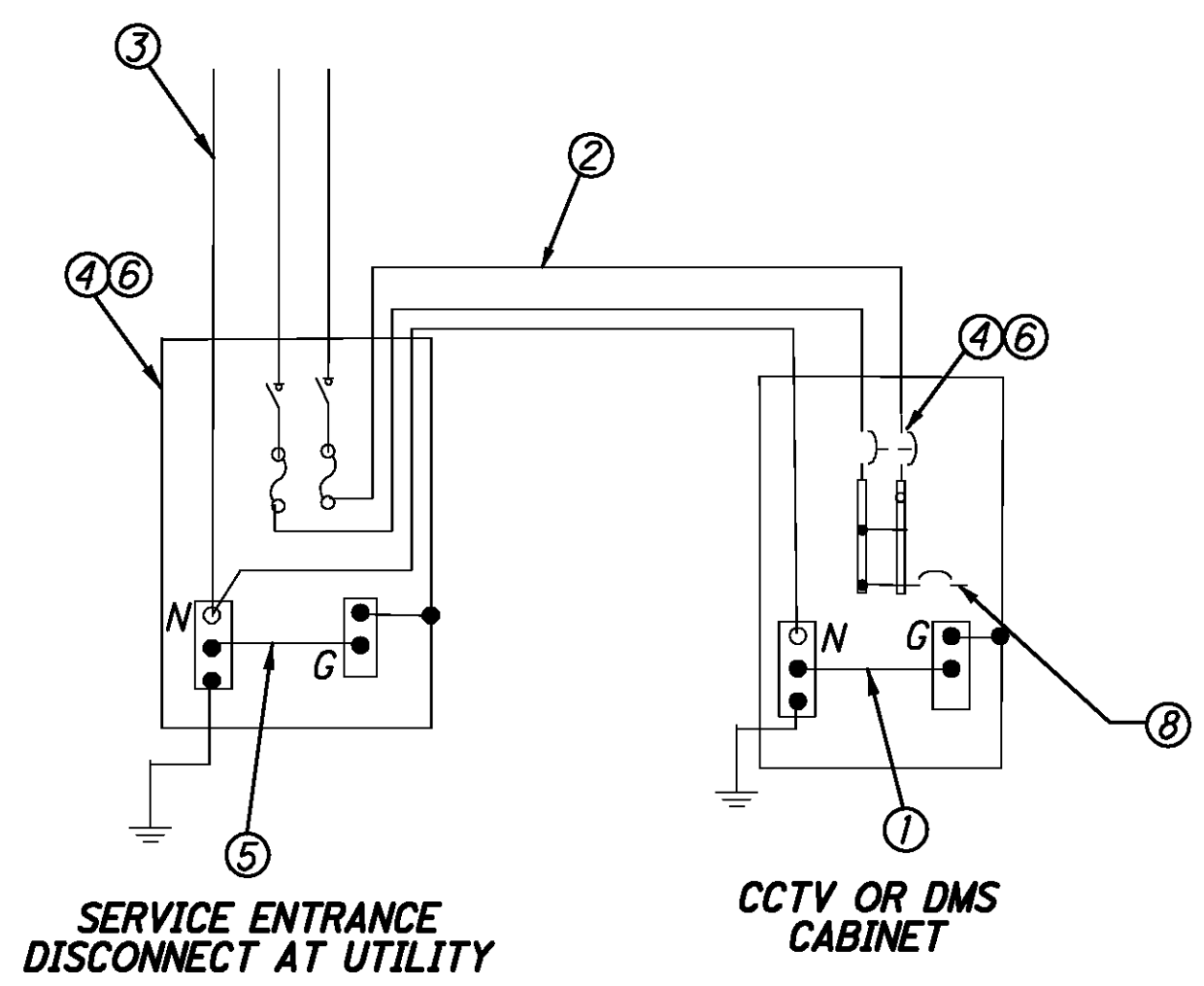
- ① IF A METAL CONDUIT OR GROUND IS BROUGHT FORWARD FROM THE SERVICE ENTRANCE, THEN NEUTRAL AND GROUND CANNOT BE BONDED AT DEVICE CABINET. IF GROUND IS BROUGHT FORWARD THEN SIZE THE GROUND THE SAME AS THE NEUTRAL CONDUCTOR. SEE 'CONTINUOUS METALLIC PATH BETWEEN DEVICES' DETAIL.
- ② FEEDER SIZED PER PLAN. NO EQUIPMENT GROUND AND NO METALLIC CONDUIT BROUGHT FORWARD FROM SERVICE ENTRANCE.
- ③ SERVICE ENTRANCE CONDUCTORS SIZED PER PLAN
- ④ FUSIBLE OR MAIN BREAKER DISCONNECT. OVERCURRENT PROTECTION DEVICES ARE AS SIZED PER PLAN. TYPICAL FUSE CONFIGURATIONS FOR 120/240V SERVICE:  
30A FOR ONE CAMERA  
80A FOR ONE DMS  
80A FOR ONE DMS AND ONE CAMERA  
100A FOR TWO DMS
- ⑤ NEUTRAL AND GROUND BONDED AT SERVICE ENTRANCE EQUIPMENT.
- ⑥ SERVICE ENTRANCE RATED DISTRIBUTION EQUIPMENT.
- ⑦ TWO POLE CIRCUIT BREAKER FOR FEEDERS ARE SIZED AS PER PLAN. TYPICAL CIRCUIT BREAKER CONFIGURATIONS FOR 120/240 SERVICE:  
30A FOR ONE CAMERA  
80A FOR ONE DMS  
80A FOR ONE DMS AND ONE CAMERA  
100A FOR TWO DMS
- ⑧ CIRCUIT BREAKERS FOR LOCAL EQUIPMENT ARE SIZED PER MANUFACTURER RECOMMENDATIONS
- ⑨ MULTIPLE MAIN BREAKER DISCONNECTS. CIRCUIT BREAKERS ARE AS SIZED PER PLAN. TYPICAL CIRCUIT BREAKER CONFIGURATIONS FOR 120/240V SERVICE:  
30A FOR ONE CAMERA  
80A FOR ONE DMS  
80A FOR ONE DMS AND ONE CAMERA  
100A FOR TWO DMS  
REFER TO PLANS FOR EXCEPTIONS
- ⑩ NOTE NOT USED.
- ⑪ NEUTRAL AND GROUND ARE BONDED ONLY AT THE SERVICE ENTRANCE
- ⑫ FEEDER SIZED PER PLAN. EQUIPMENT GROUND BROUGHT FORWARD FROM SERVICE ENTRANCE AND SIZED THE SAME AS THE PHASE AND NEUTRAL CONDUCTORS. IF METALLIC CONDUIT IS USED, THEN MAY USE GROUNDING BUSHINGS ON BOTH ENDS OF THE CONDUIT IN LIEU OF A GROUNDING CONDUCTOR.
- ⑬ PRIMARY OVER CURRENT PROTECTION RATED 250% (MAX.) OF THE PRIMARY SIDE CURRENT RATING.  
30A FOR 7.5 KVA TRANSFORMER  
100 AMPS FOR 25 KVA TRANSFORMER.
- ⑭ SECONDARY OVER CURRENT PROTECTION RATED 125% (MAX.) OF THE SECONDARY SIDE CURRENT RATING. SEE PLANS FOR FUSE SIZES.
- ⑮ 480>240/120 XFRM LOCATED AT DMS SITE

**NOTES:**

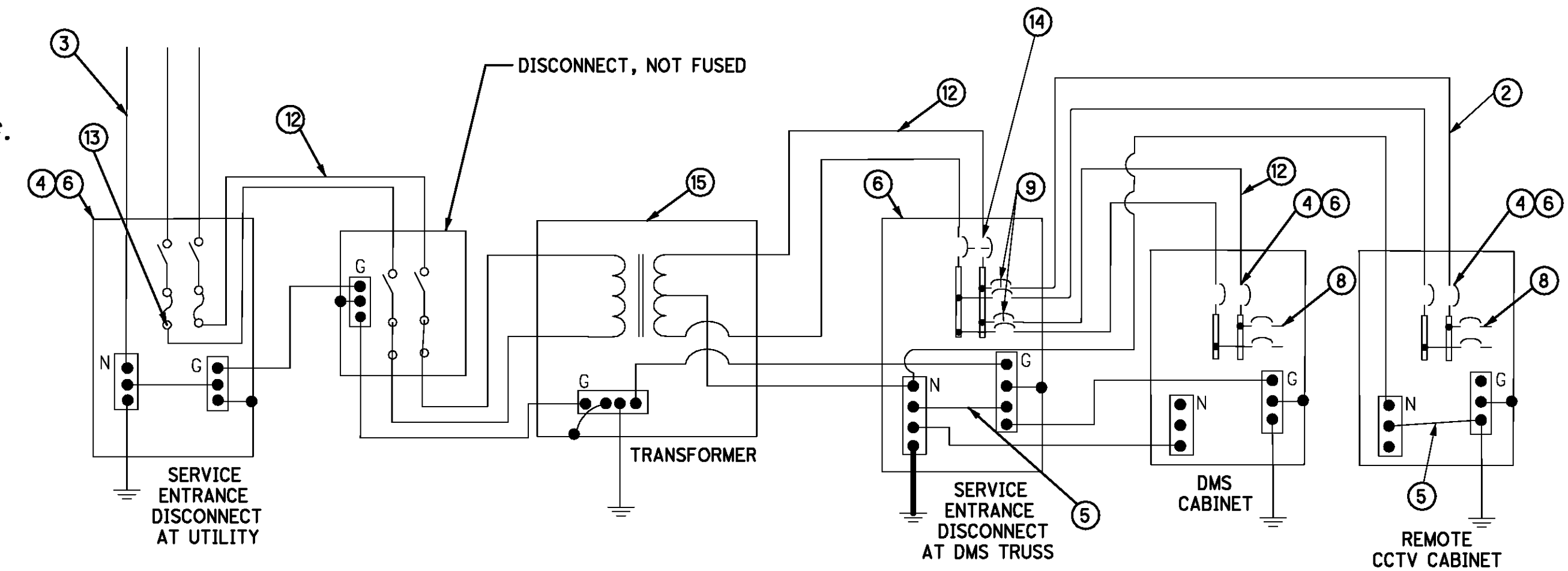
1. SEE PLAN SHEETS FOR SITE SPECIFIC ELECTRICAL EQUIPMENT RATINGS.
2. SURGE PROTECTION DEVICES NOT SHOWN HERE.
3. ALL CCTV OR DMS CABINETS ARE REMOTE FROM THE SERVICE ENTRANCE DISCONNECT AT UTILITY.



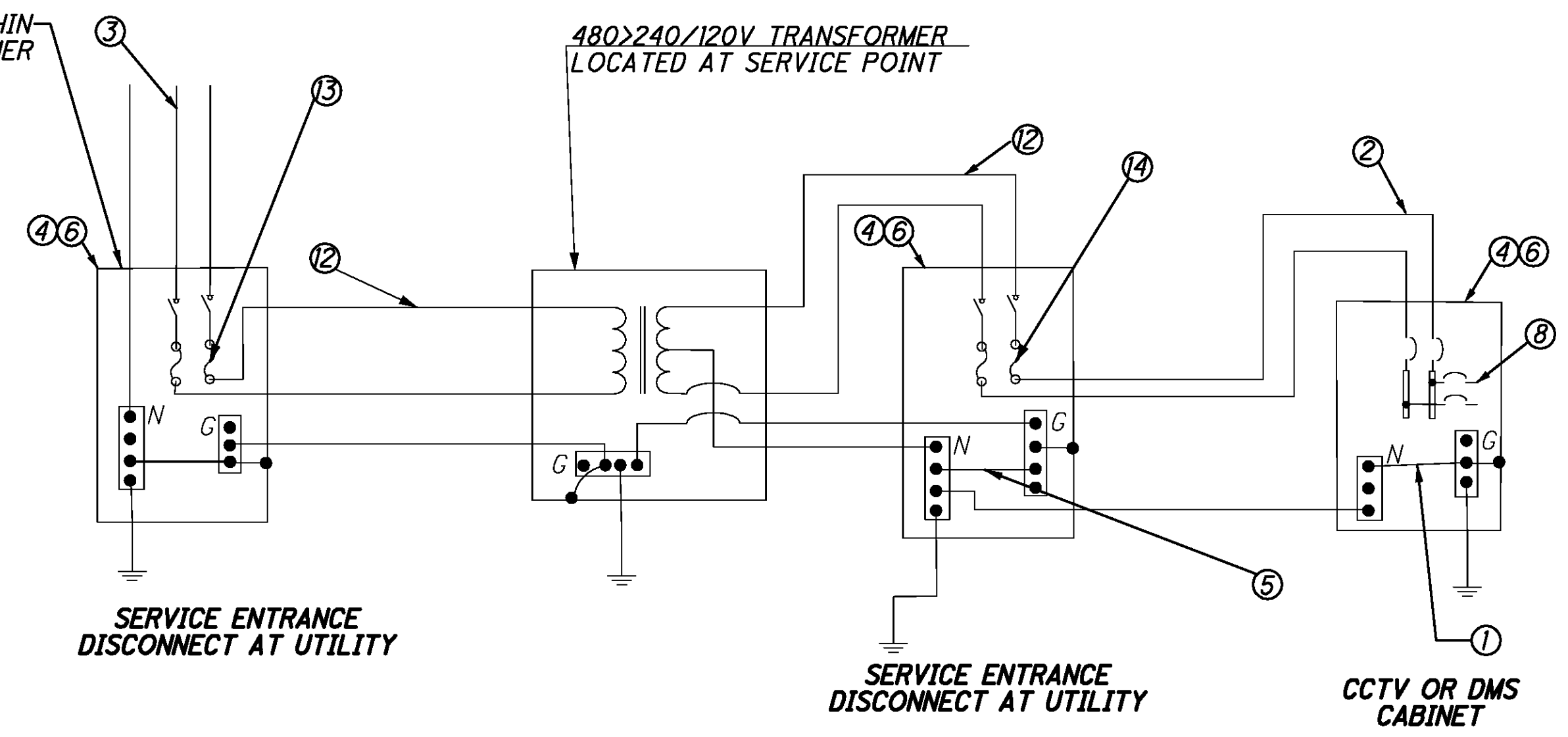
**DETAIL 1 - CONTINUOUS METALLIC PATHS BETWEEN DEVICES**



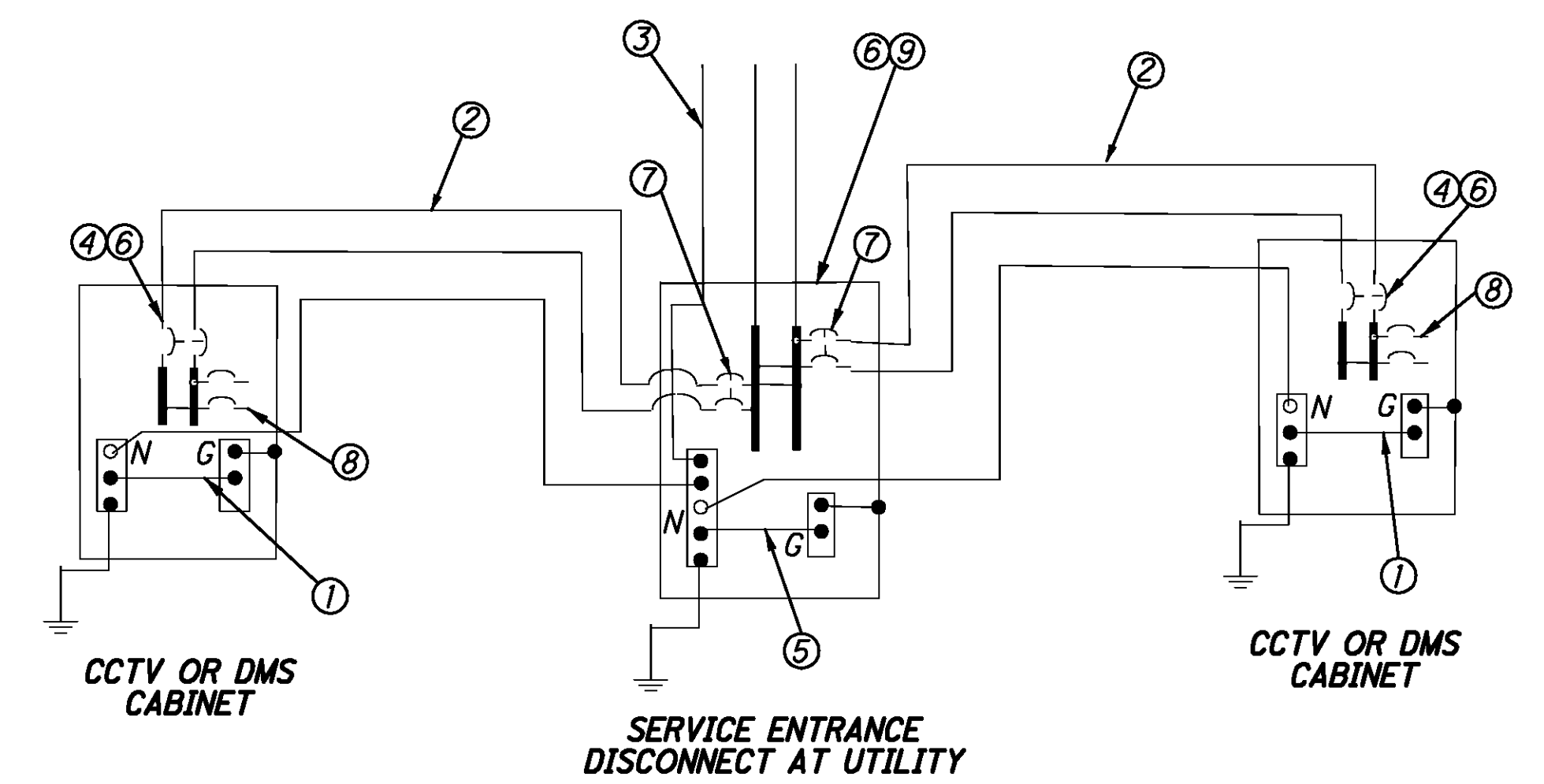
**DETAIL 2 - TYPICAL WIRING SCHEMATIC FOR A SINGLE DEVICE SITE**



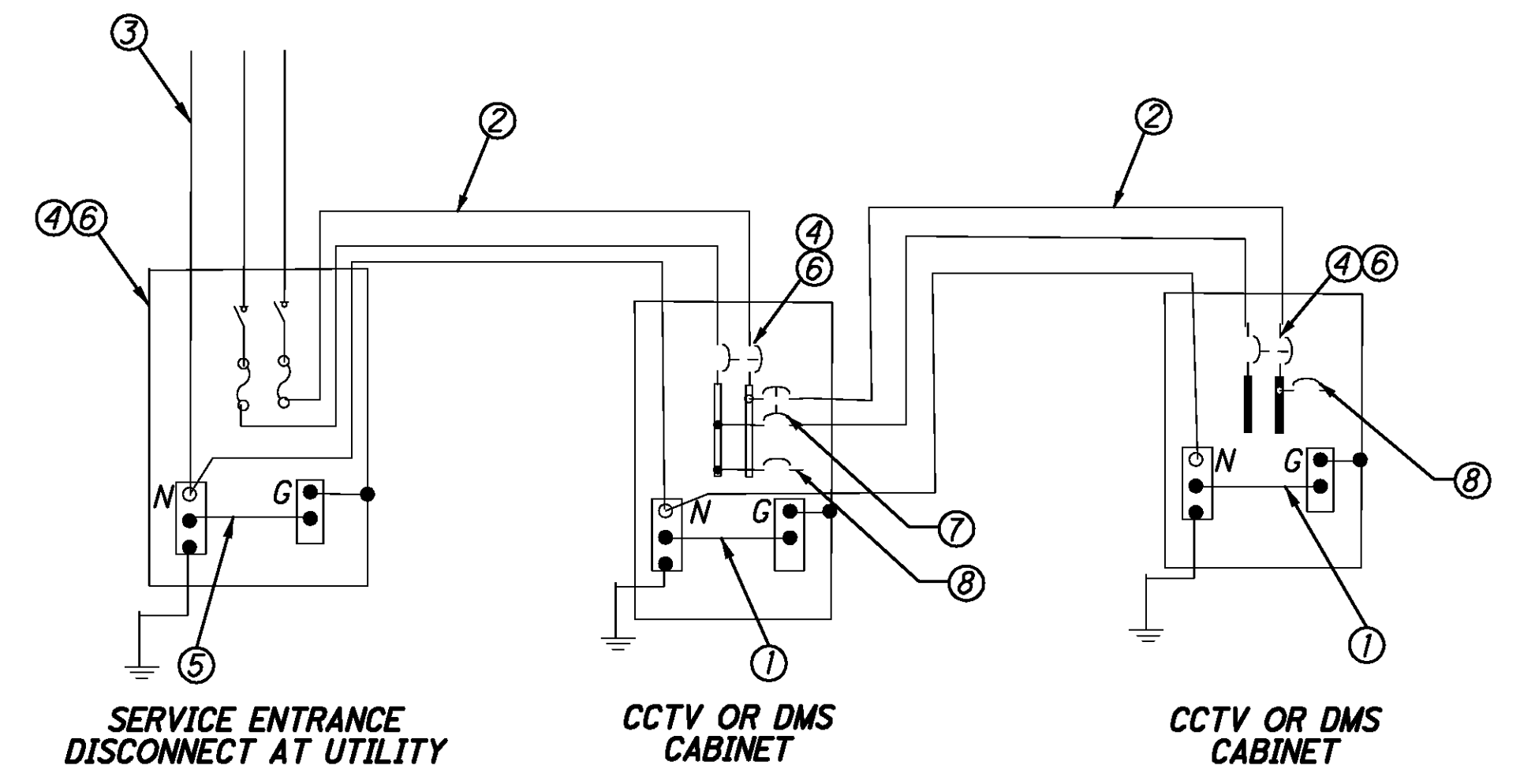
**DETAIL 6 - WIRING SCHEMATIC FOR A DMS SITE WITH A TRANSFORMER LOCATED AT DMS**



**DETAIL 3 - WIRING SCHEMATIC FOR A DEVICE SITE WITH A TRANSFORMER**

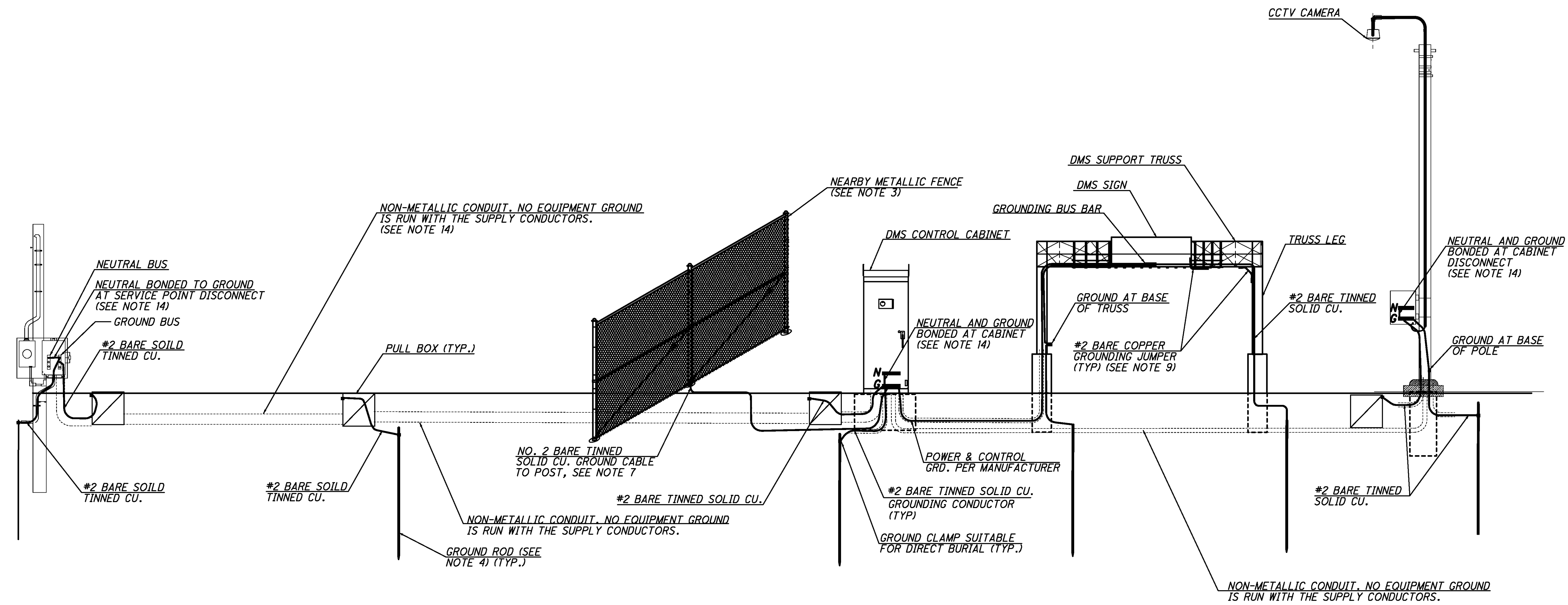


**DETAIL 4 - TYPICAL WIRING SCHEMATIC FOR A MULTI-DEVICE SITE (CAMERA FED FROM SERVICE ENTRANCE)**



**DETAIL 5 - TYPICAL WIRING SCHEMATIC FOR A MULTI-DEVICE (CAMERA FED FROM DMS)**

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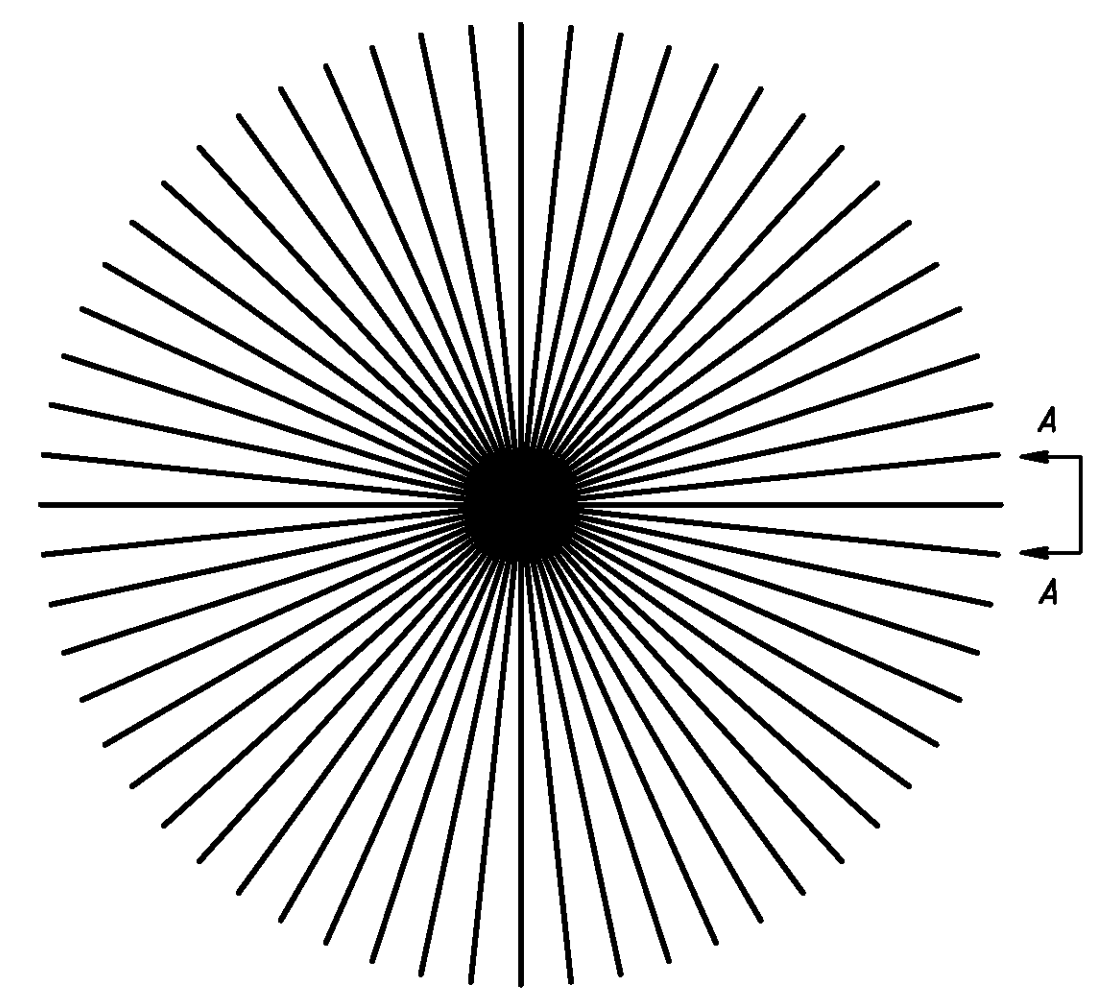


**DMS SITE GROUND RING**

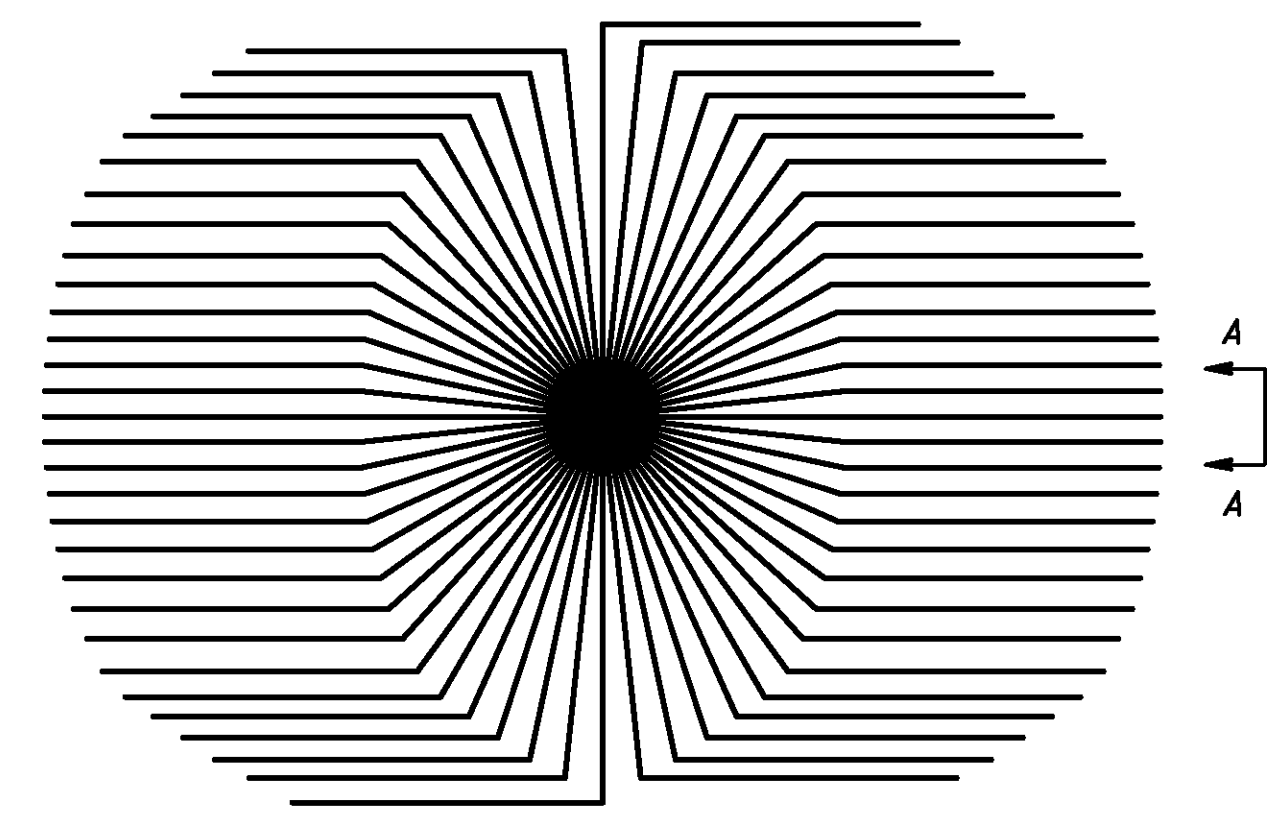
**NOTES:**

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 PER ANSI/IEEE 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 ELECTRODE SYSTEM IF THEY ARE LOCATED WITHIN 10' OF THE GROUNDING ELECTRODE SYSTEM OR ANY OBJECT BONDED TO THE GROUNDING ELECTRODE SYSTEM. SEE STANDARD CONSTRUCTION DRAWING HL-50.11.
4. GROUND ROD ELECTRODES SHALL BE BURIED TO A MINIMUM DEPTH OF 30 INCHES OR BELOW THE FROST LINE, WHICHEVER DEPTH IS GREATER.
5. CCTV CAMERA AND ASSOCIATED PULL BOX SHALL NOT BE CONNECTED TO THE DMS SITE GROUNDING ELECTRODE SYSTEM.
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 THEN 90°.
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 1.1 TIMES THE LENGTH OF THE ROD FROM A FOUNDATION.
14. SEE SHEET 19 FOR DETAILED NEUTRAL AND EQUIPMENT GROUND CONDUCTOR INSTALLATION REQUIREMENTS.

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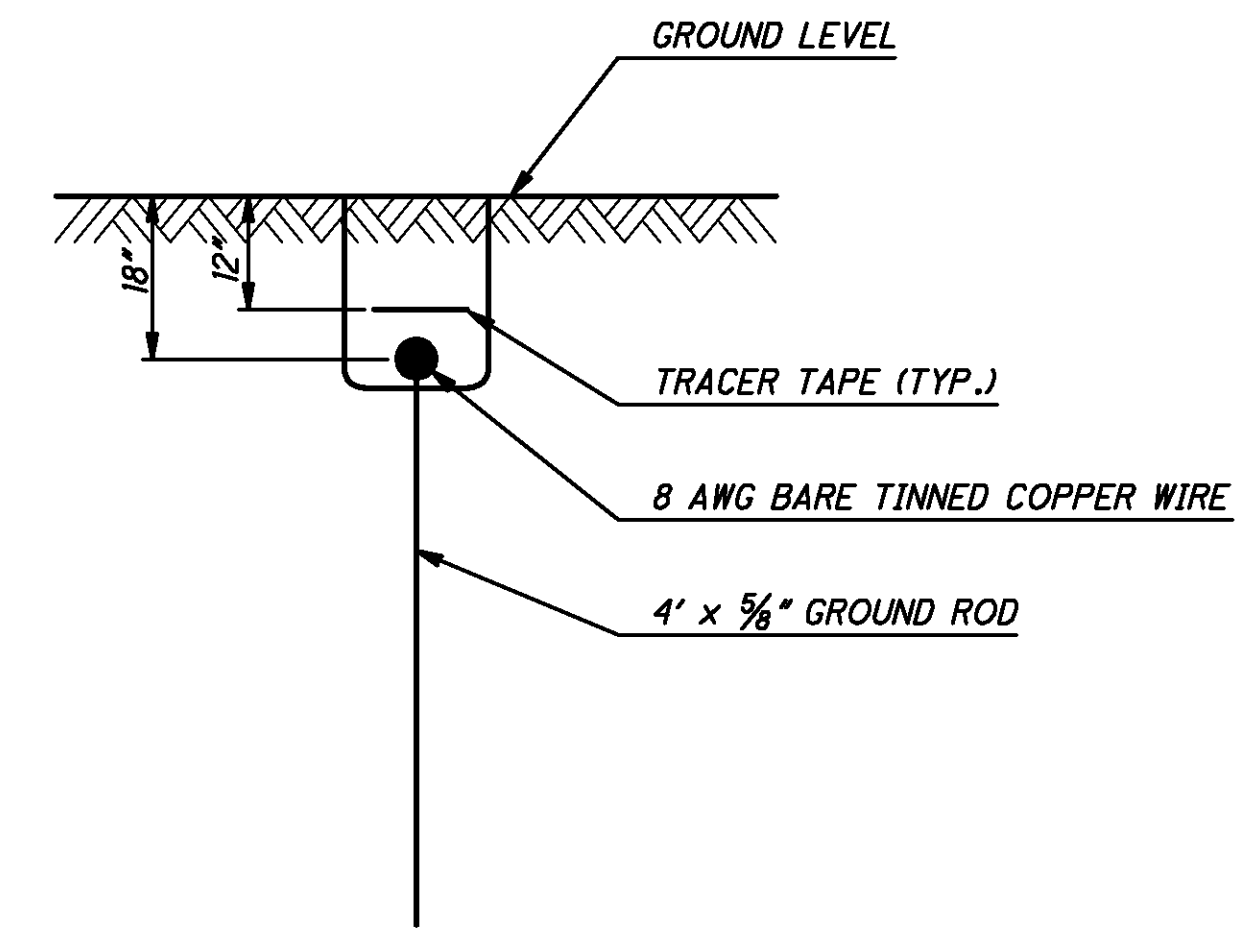
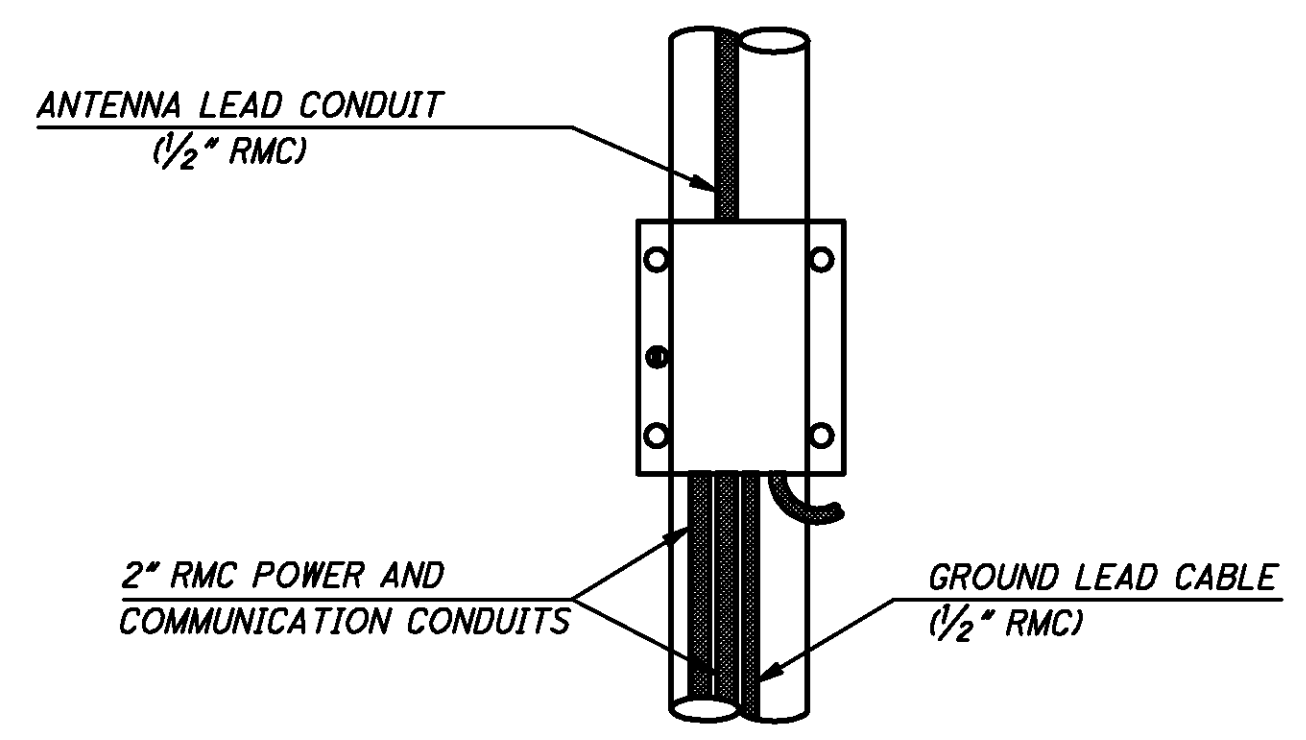
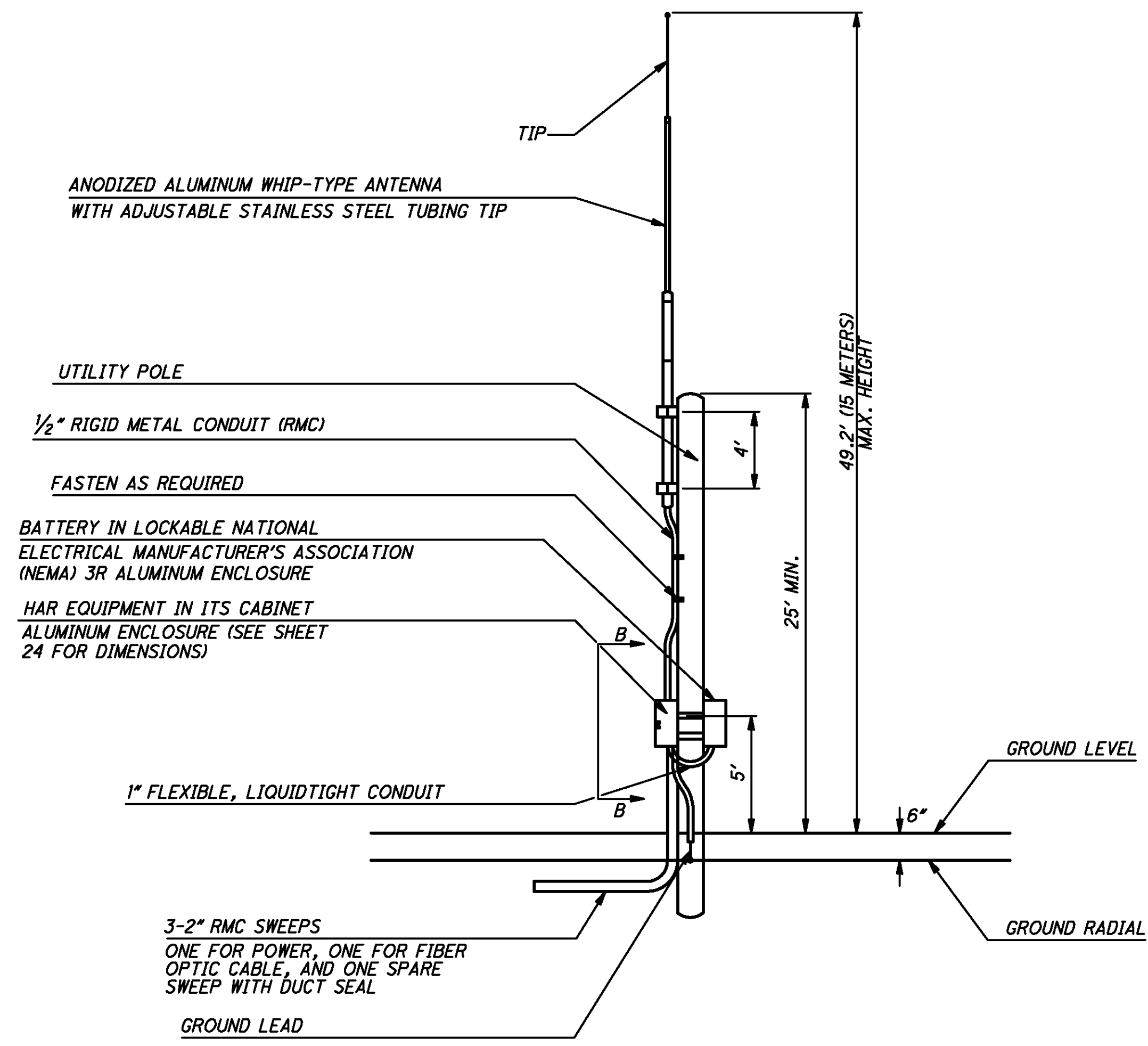
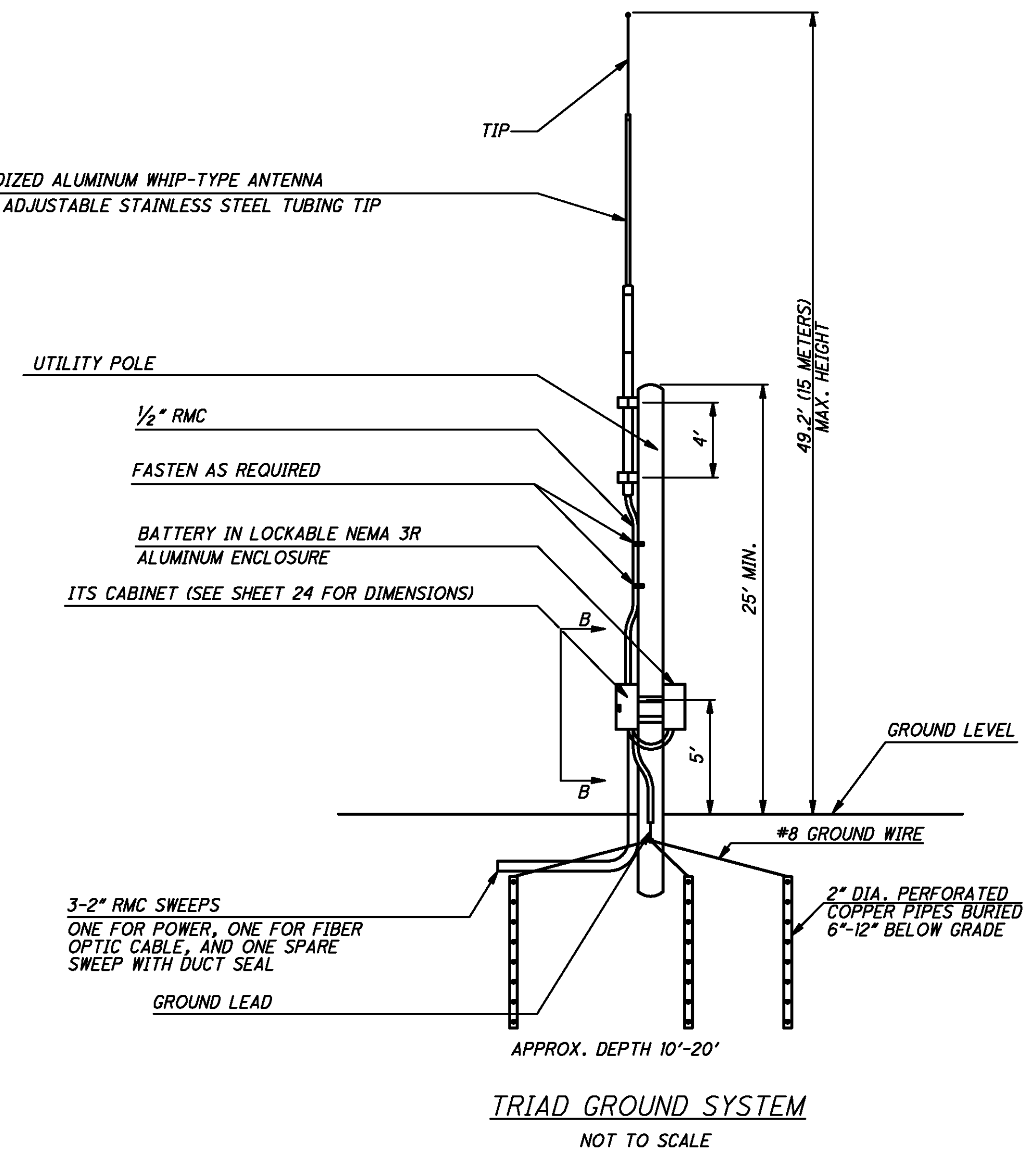


RADIAL PATTERN  
FOR GROUND SYSTEM  
NOT TO SCALE



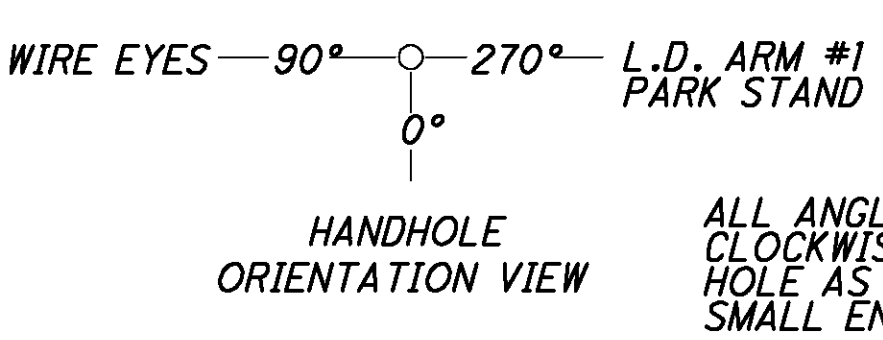
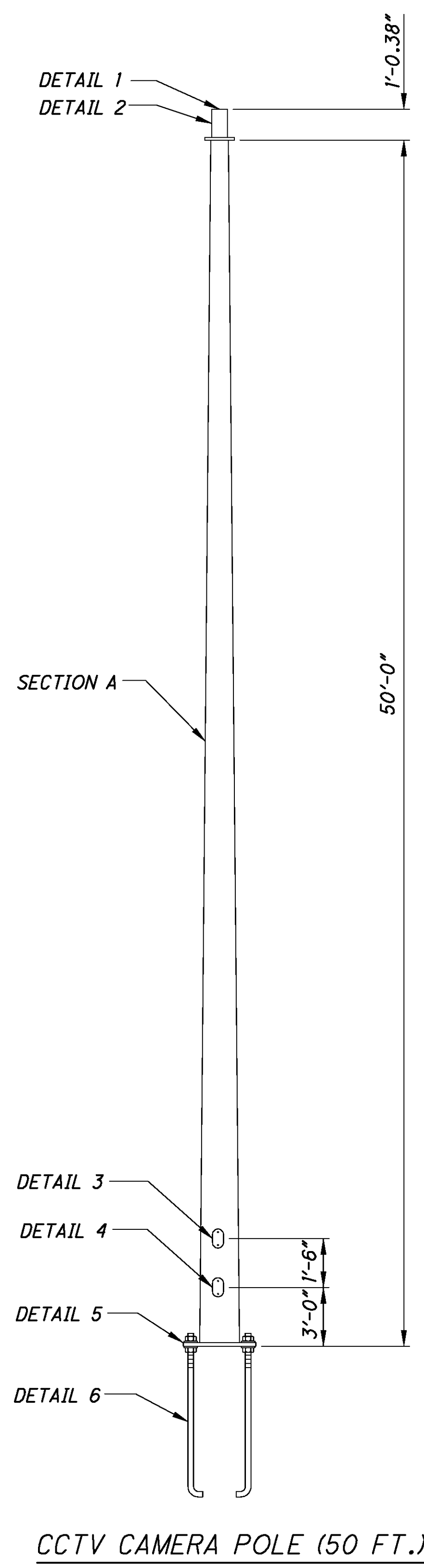
ALTERNATE RADIAL PATTERN  
FOR GROUND SYSTEM  
NOT TO SCALE

ANODIZED ALUMINUM WHIP-TYPE ANTENNA  
WITH ADJUSTABLE STAINLESS STEEL TUBING TIP

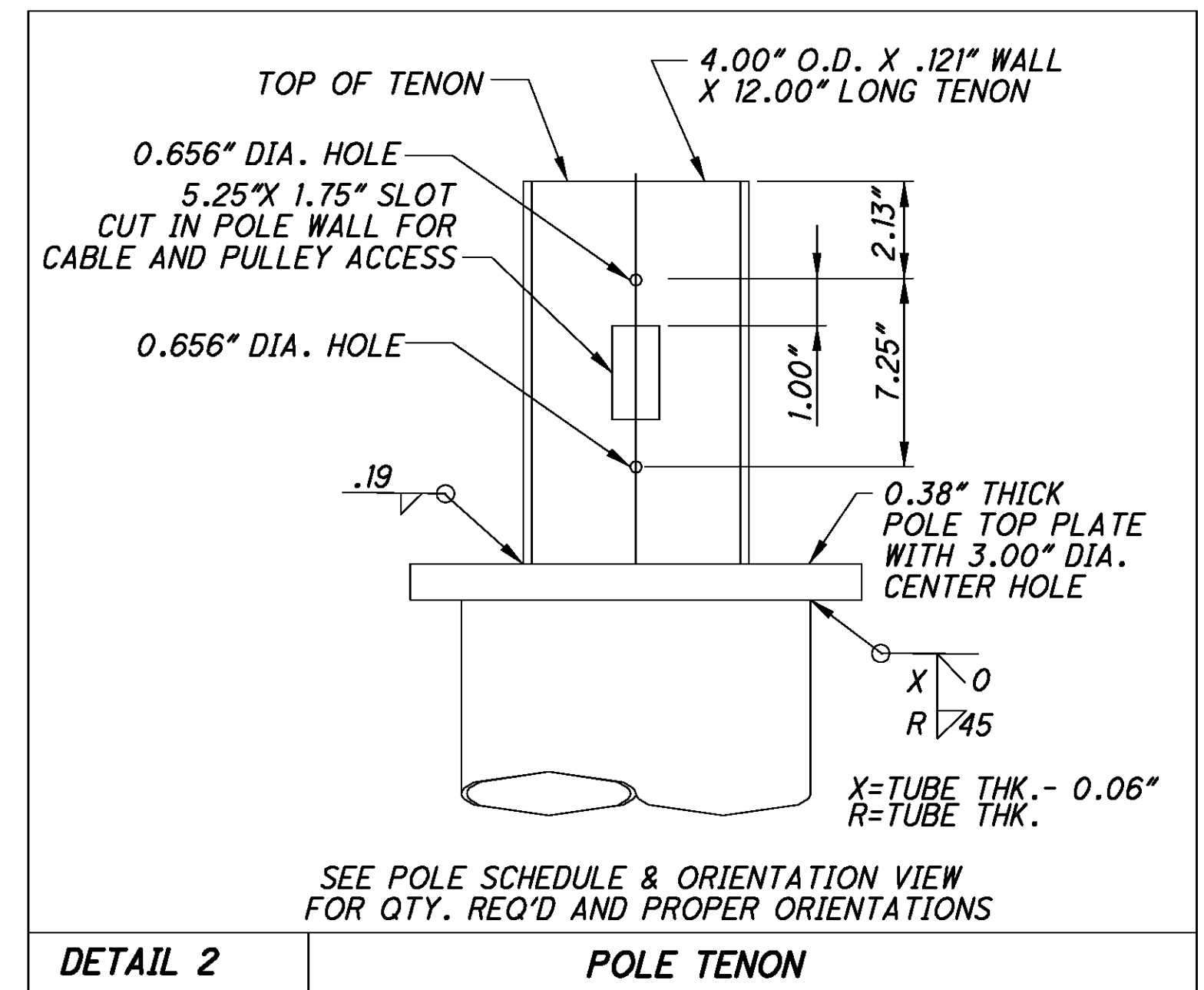
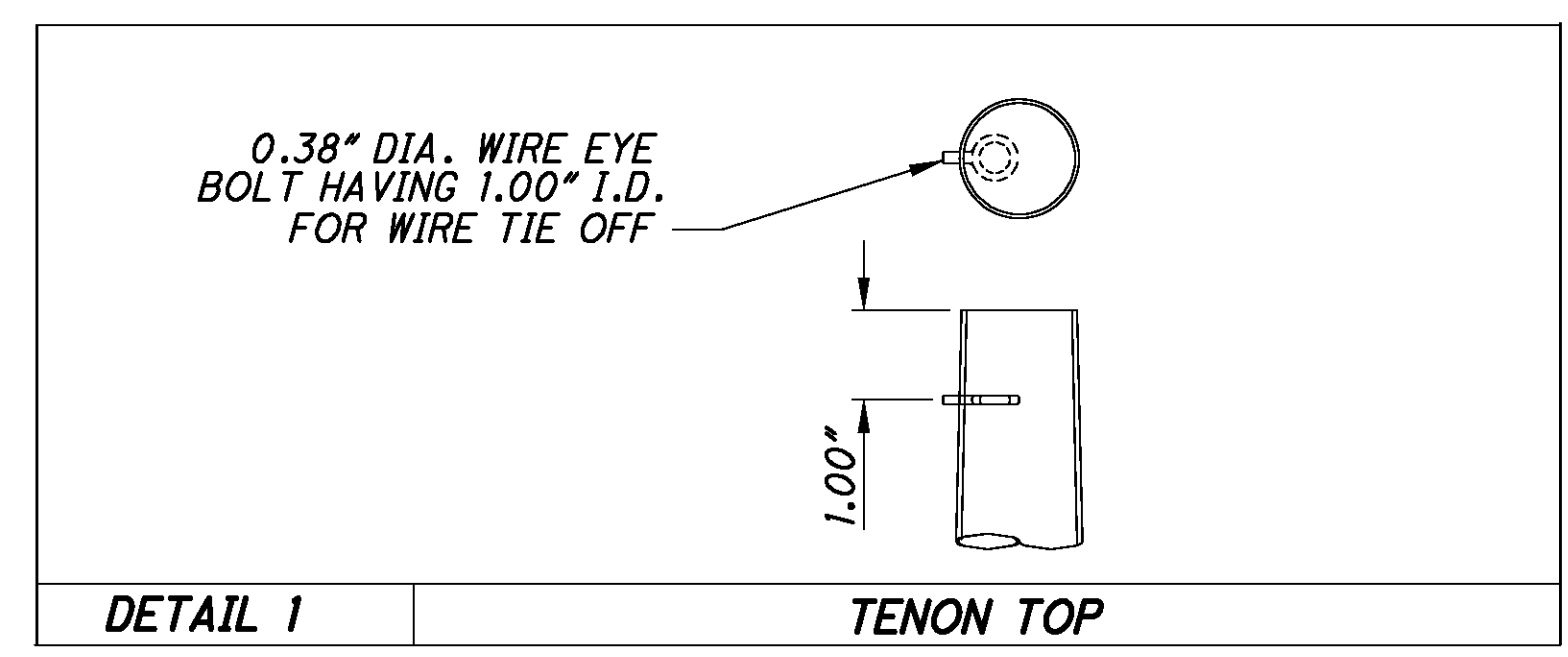


**NOTE:**  
1. CONTRACTOR HAS OPTION FOR PROVIDING RADIAL PATTERN GROUND SYSTEM.

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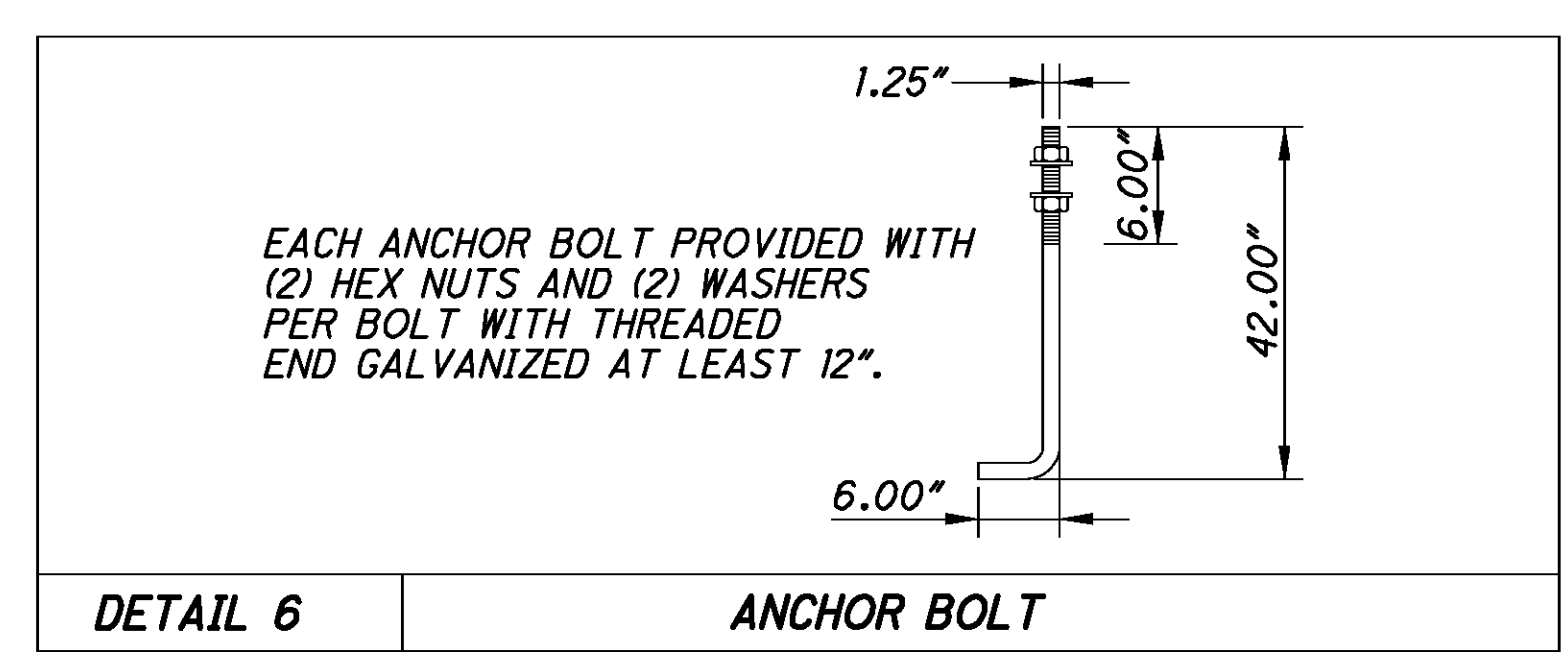
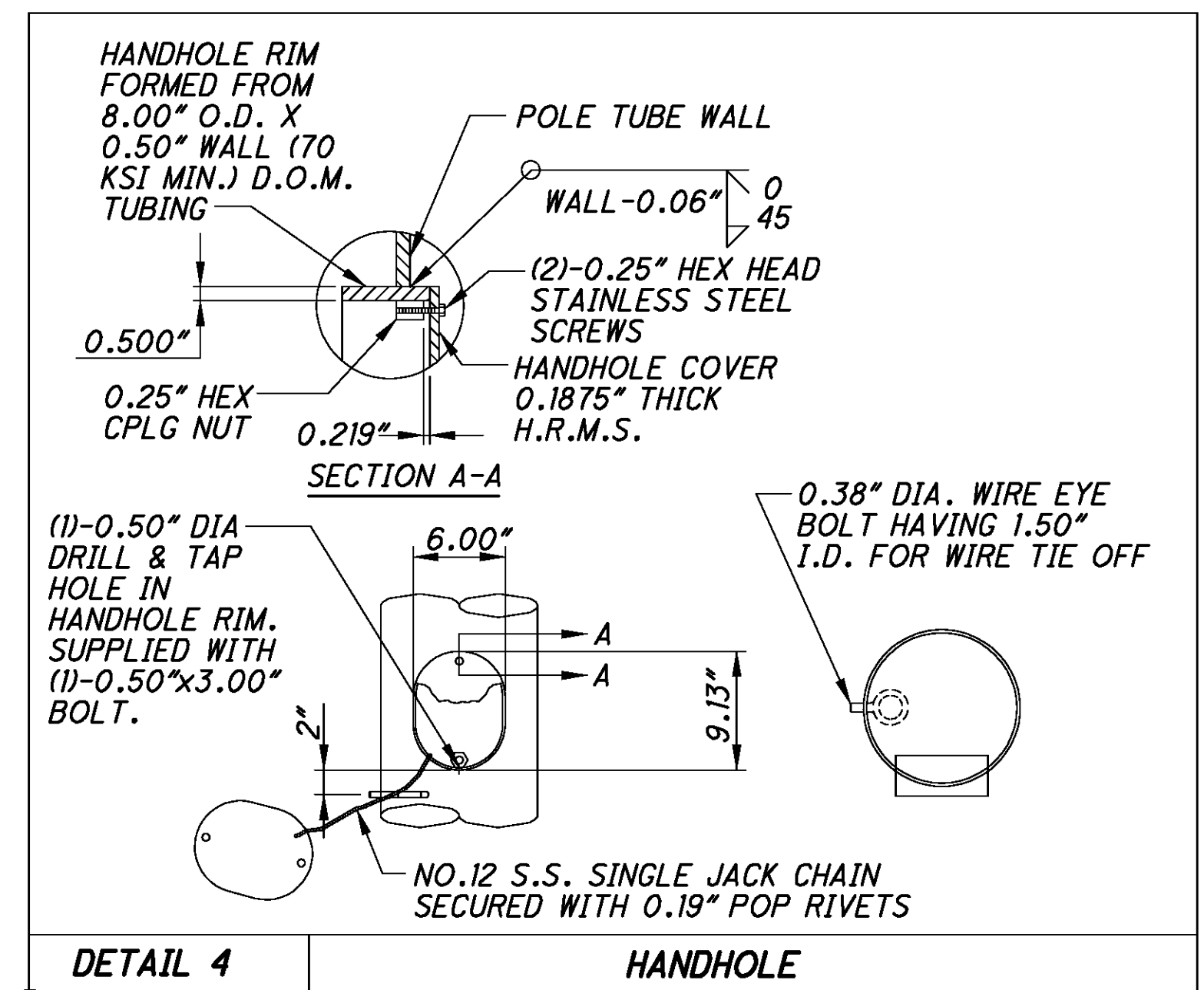
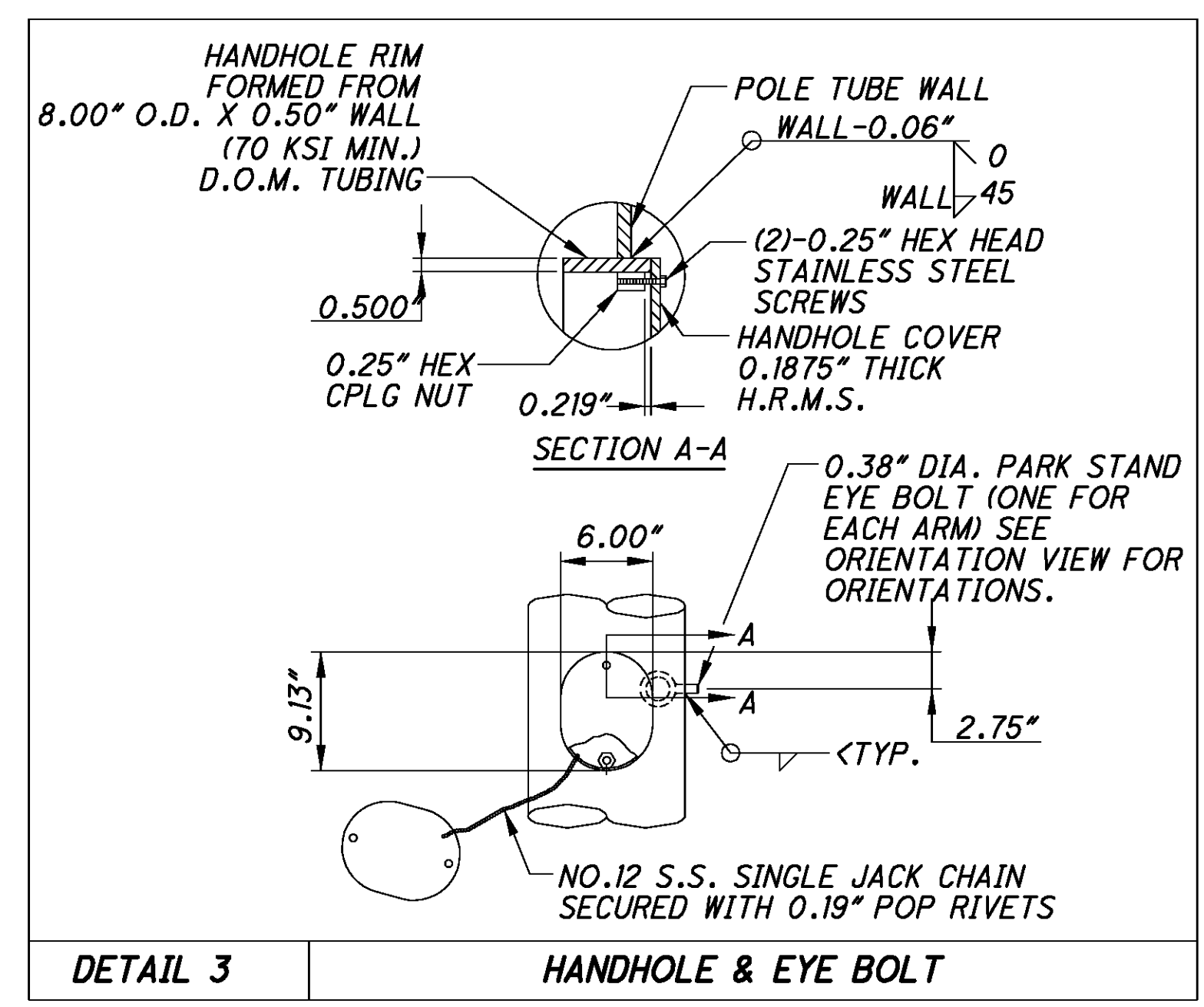
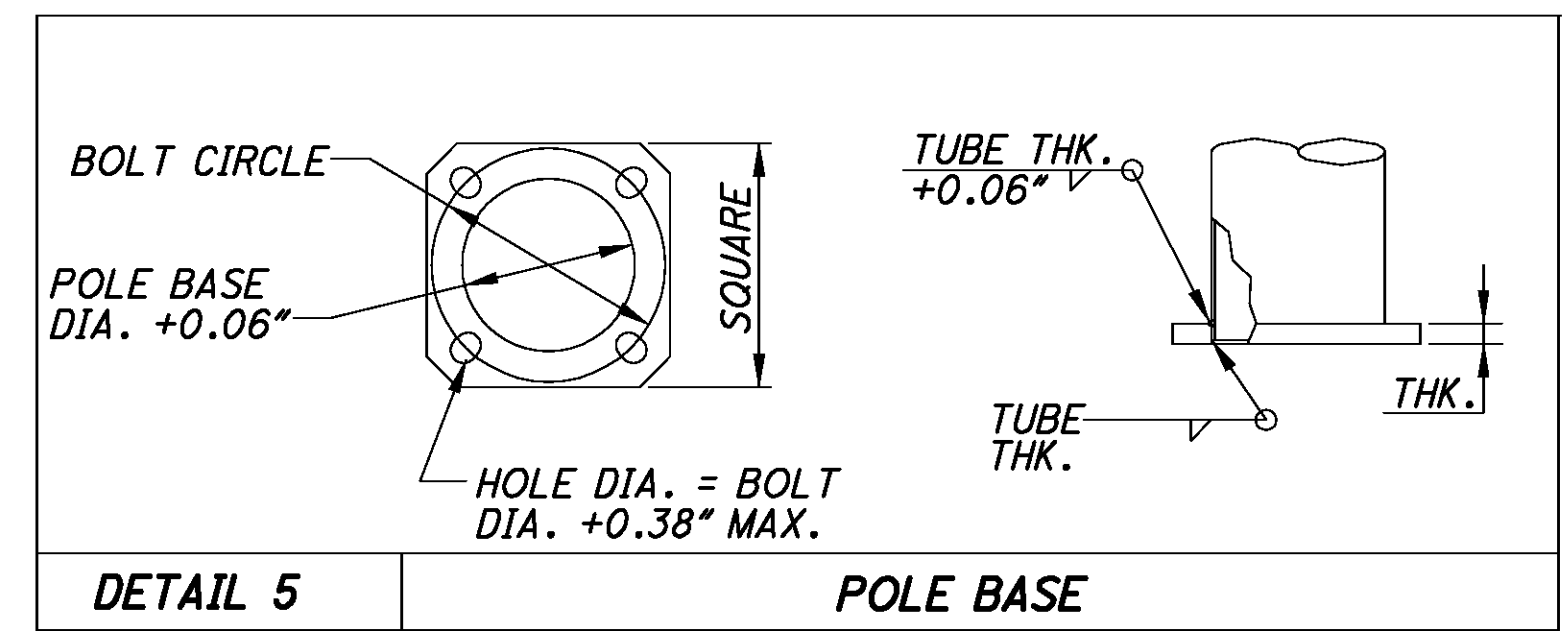


- NOTES:**
1. CONTRACTOR SHALL PROVIDE THE DETAILS OF A (2 PIECE) 70' CCTV POLE AND FOUNDATION FOR REVIEW AND APPROVAL BY THE ENGINEER.
  2. POLE ORIENTATION TO BE DETERMINED BY THE ENGINEER.
  3. THIS SHEET IS INCLUDED TO SHOW TYPICAL INFORMATION TO BE PROVIDED BY THE CONTRACTOR FOR A 70' CAMERA POLE DETAIL



**MATERIAL DATA**

COMPONENT	ASTM DESIGNATION	MIN. YIELD (KSI)
POLE SHAFTS	A595 GR.A	55
BASE PLATES	A36	36
POLE TOP PLATE	A36	36
TENON - C.D.S. TUBING	----	42
ANCHOR BOLTS	F1554 GR.55	55
GALVANIZING - STRUCTURE	A123	--
GALVANIZING - HARDWARE	A153	--



**POLE DATA**

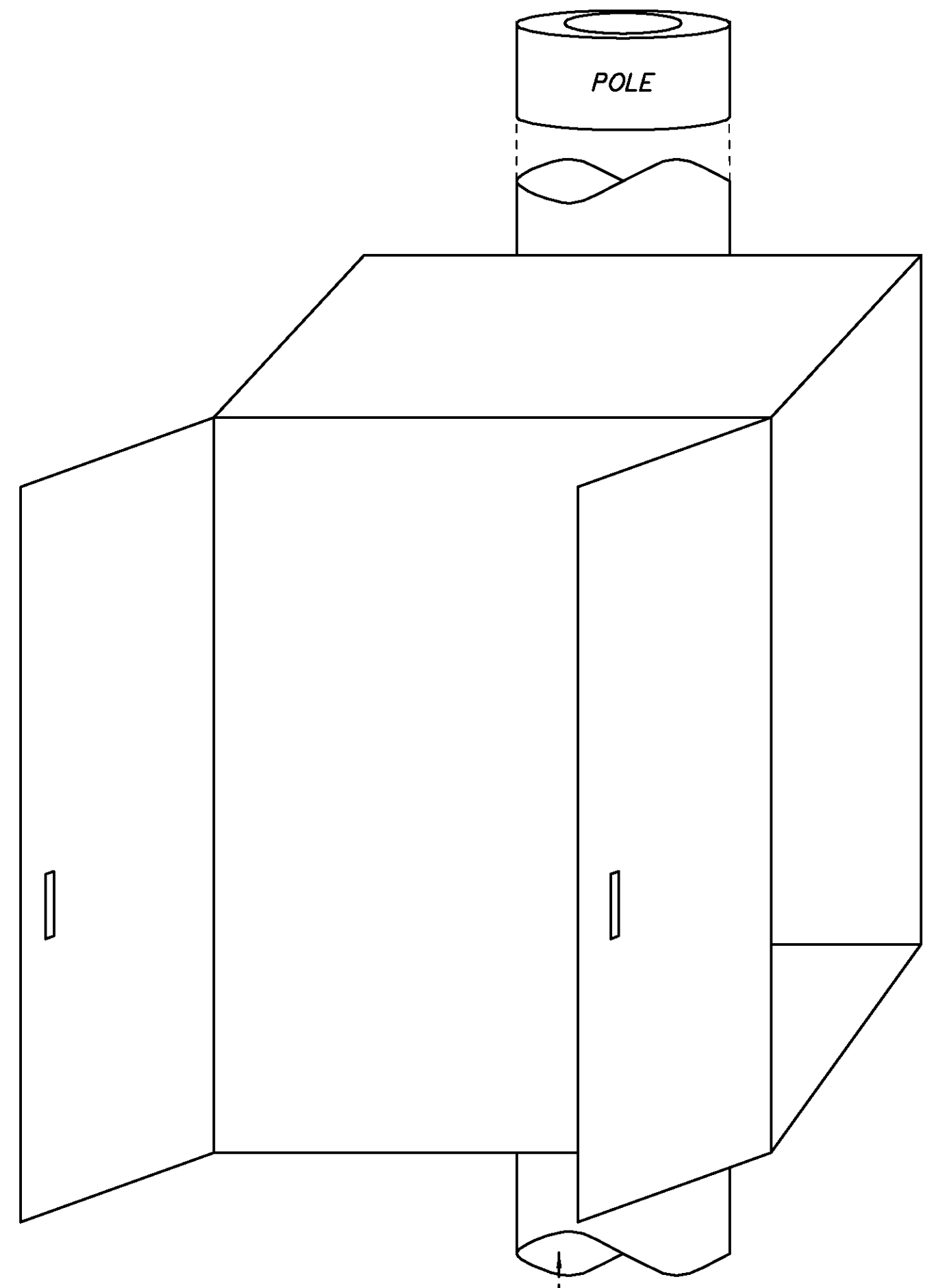
ITEM	QTY.	DESIGNATION EPA/MASS (FT)/(LB)	HEIGHT (FT)	NO. L.D. ARMS REQ'D	TUBE					POLE BASE				
					SECTION	BASE DIAMETER (IN)	TOP DIAMETER (IN)	LENGTH (FT)	GAUGE OR THICK	MINIMUM SLIP LENGHT	SQUARE (IN)	BOLT CIRCLE DIA (IN)	THICK (IN)	BOLT HOLE DIA. (IN)
1	2	AHM050-SPCL (GV) 2.8/120(LD+CAMERA) 7.9/150(PANEL BOX)	50.00	1	A	18.00	6.00	50.00	5 GA	N/A				1.563

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MAXIMUM HORIZONTAL DEFLECTION IS 1" FOR A SUSTAINED 30 MPH WIND VELOCITY W/NO GUST  
LOADING AND ALLOWING STRESS CRITERIA: 1994 AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS."

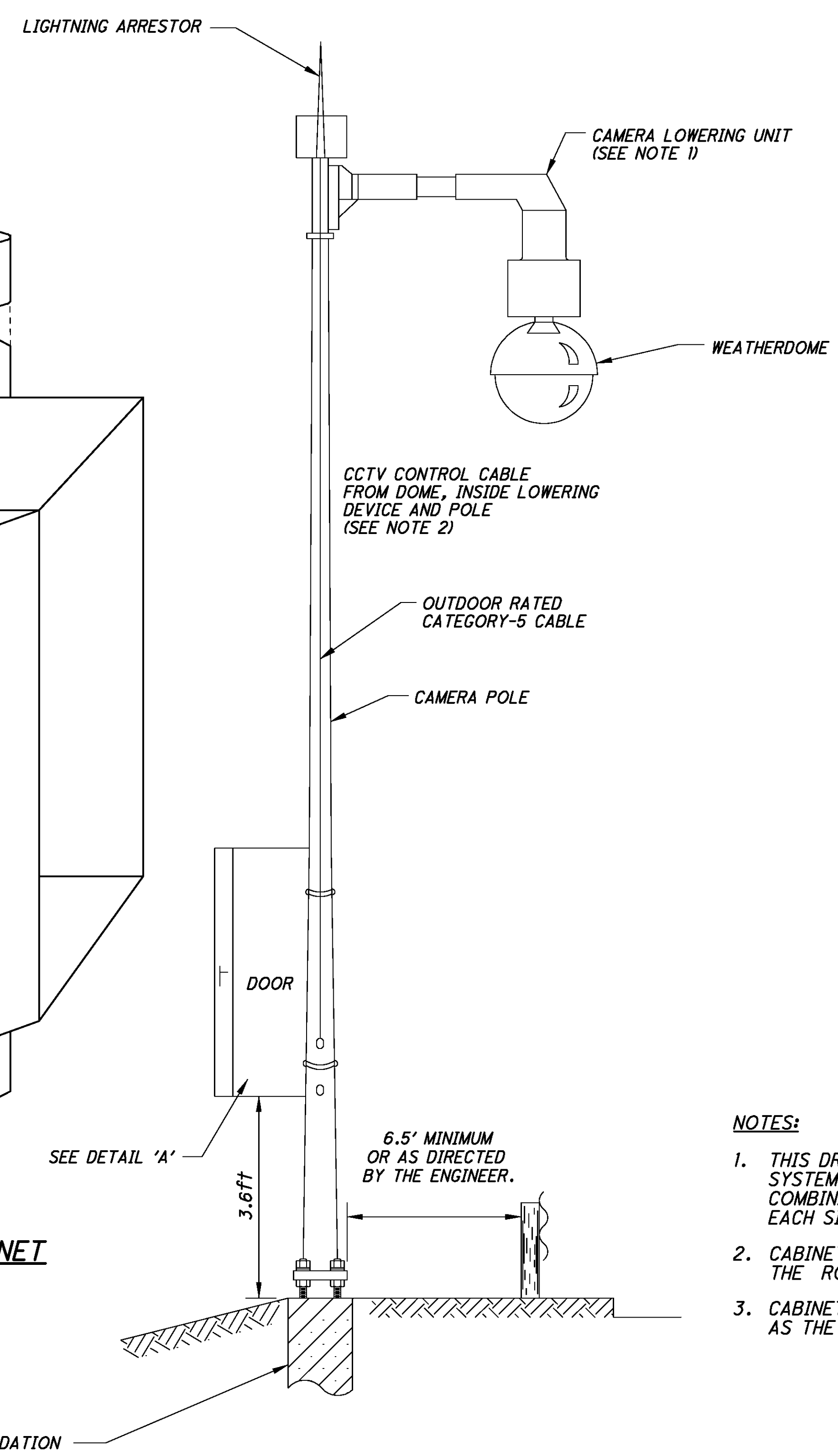


**DESCRIPTION**  
OUTDOOR WEATHERDOME  
1/4" COLOR CCTV CAMERA W/BUILT-IN  
18X OPTICAL ZOOM LENS  
COLOR/MONochrome

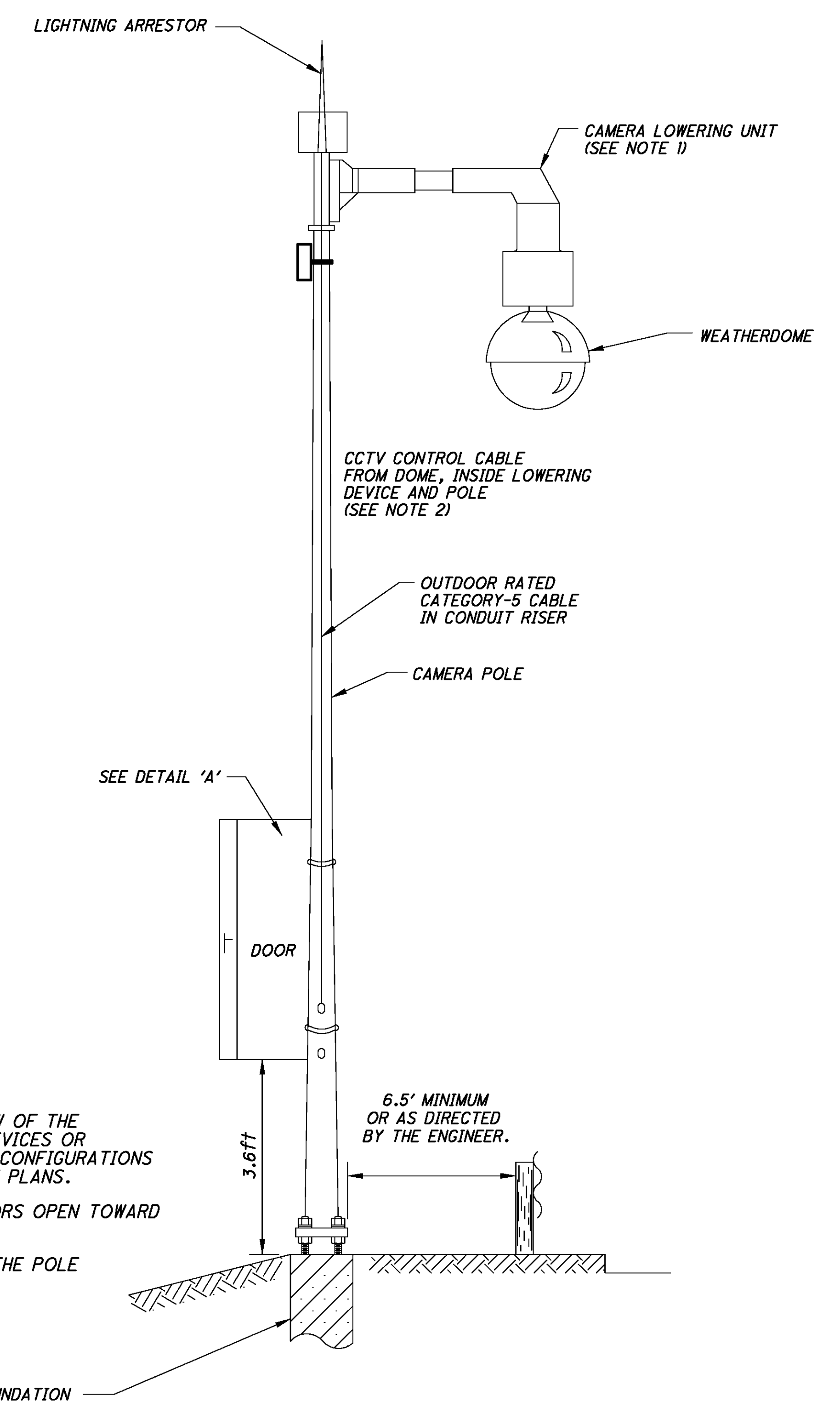


POWER CABLE  
FIBER CONTROL CABLE

**DETAIL 'A' - TYPE 1 CCTV CABINET  
WIRELESS**



**CCTV CAMERA INSTALLATION**



**WIRELESS COMMUNICATION ASSEMBLY**

**NOTES:**

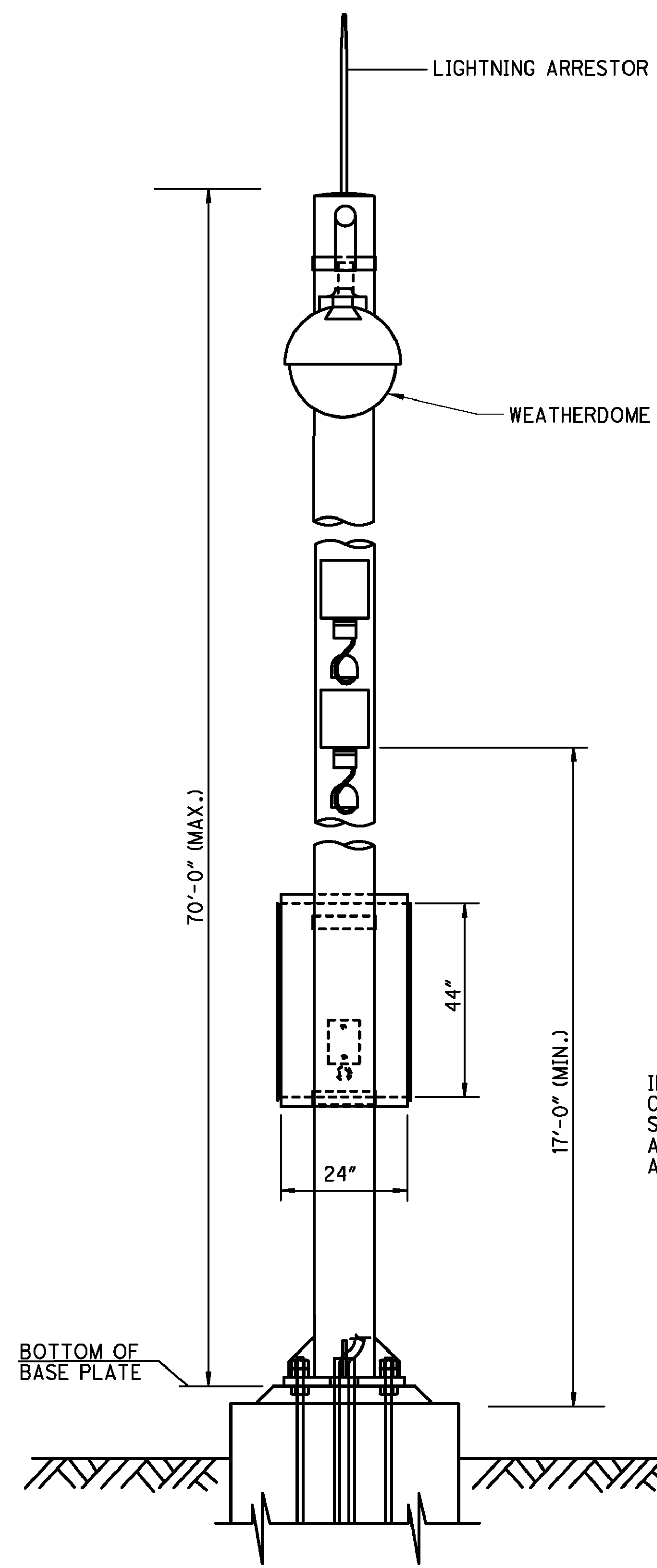
1. THIS DRAWING REPRESENTS ONLY A TYPICAL SITE OVERVIEW OF THE SYSTEM. THIS DRAWING IS NOT INTENDED TO SHOW ALL DEVICES OR COMBINATION OF DEVICES IN THE SYSTEM. BASED ON SITE CONFIGURATIONS EACH SITE MAY CONTAIN ONE OR MORE NOT SHOWN ON THE PLANS.
2. CABINET DOORS SHOULD NOT BE ORIENTED SUCH THAT DOORS OPEN TOWARD THE ROADWAY UNLESS OUTSIDE OF CLEAR ZONE.
3. CABINET SHOULD NOT BE LOCATED ON THE SAME SIDE OF THE POLE AS THE CCTV DOME HOUSING.

**NOTES:**

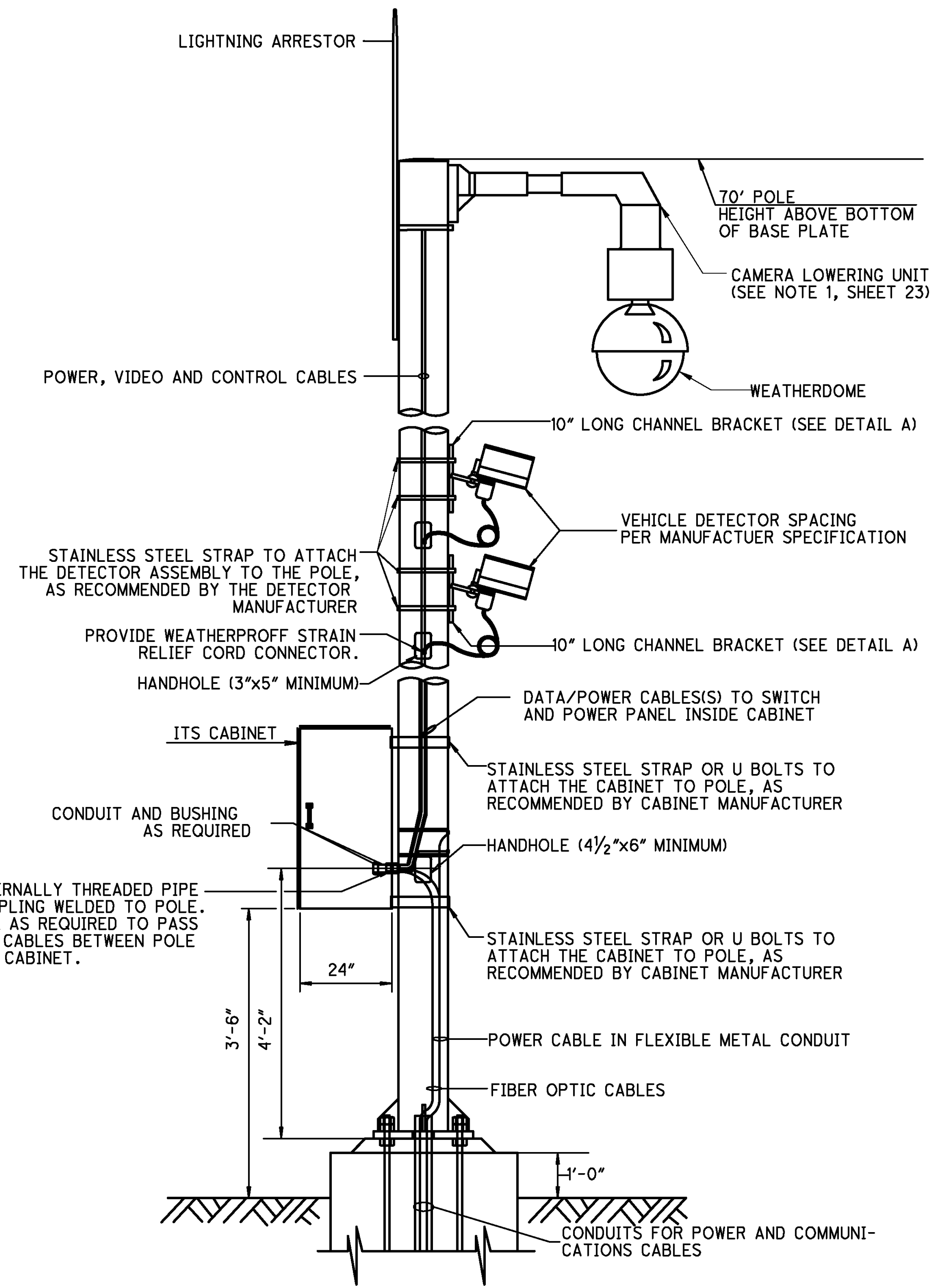
1. CCTV POLE SHALL BE INSTALLED WITH CAMERA LOWERING SYSTEM.
2. CCTV LOWERING SYSTEM MANUFACTURER SHALL PROVIDE ADEQUATE LENGTH OF CCTV CABLE FOR 70' POLE.

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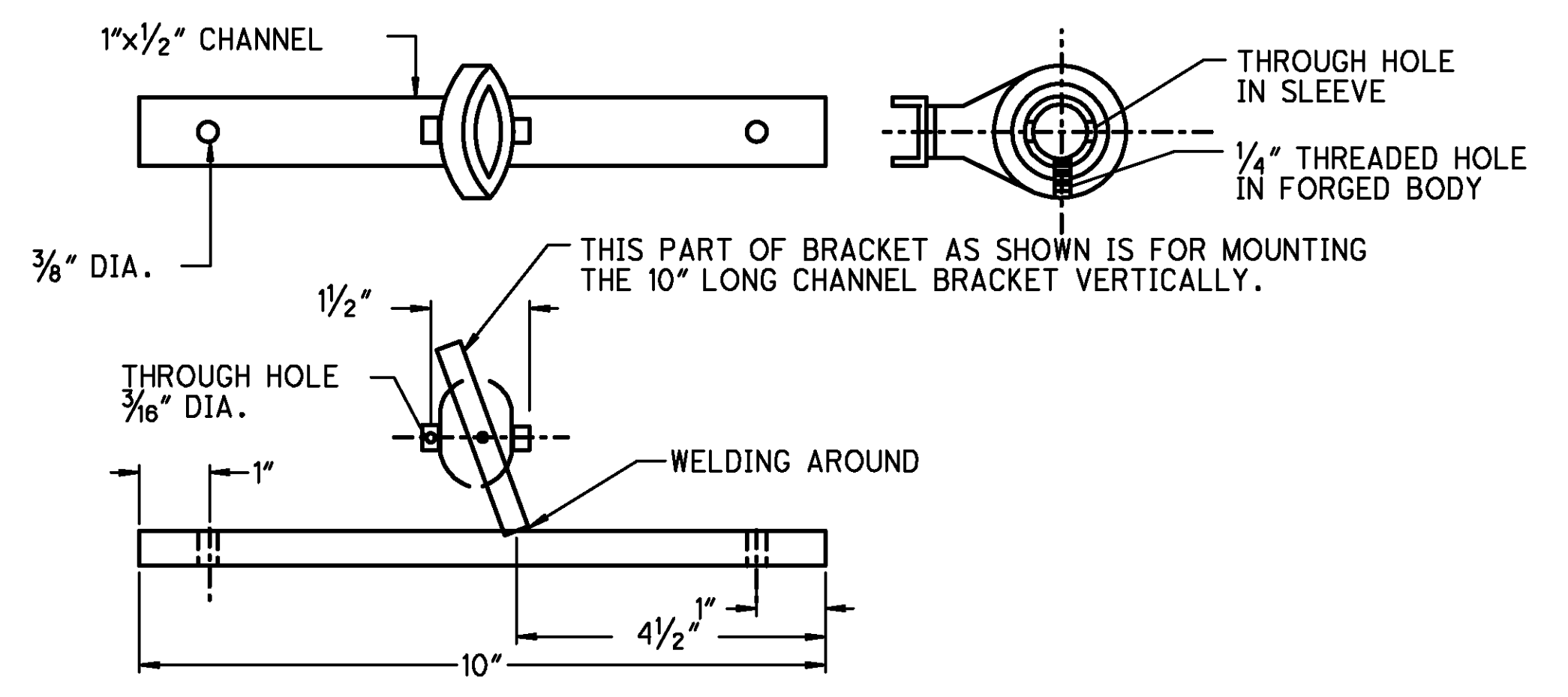
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VEHICLE DETECTION ASSEMBLY, SIDE VIEW  
N.T.S.



VEHICLE DETECTION ASSEMBLY, MOUNTED ON CCTV CAMERA POLE  
N.T.S.

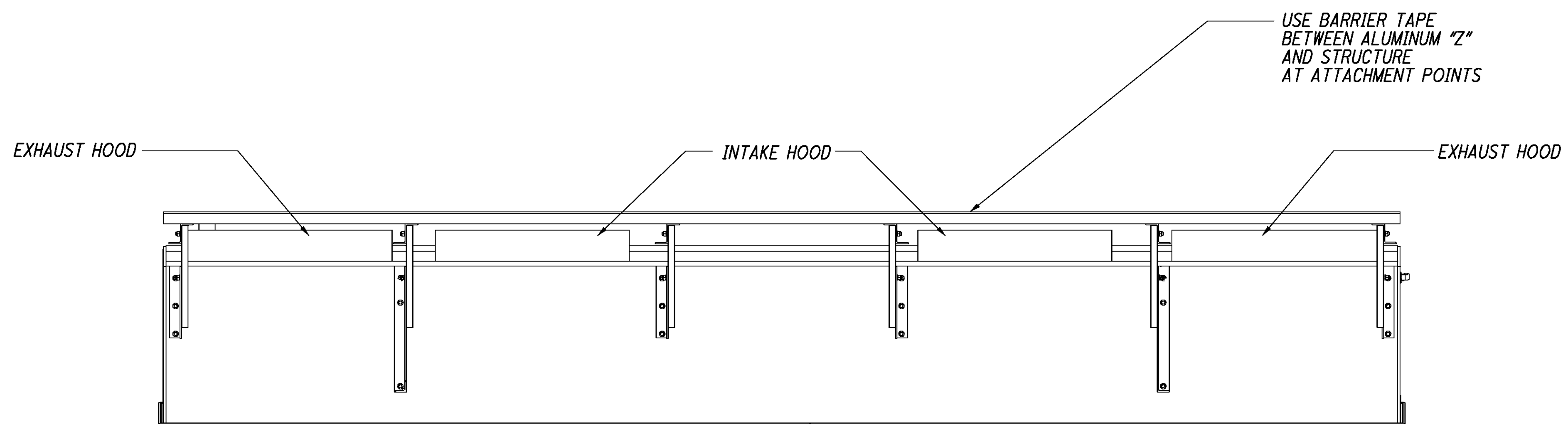


DETAIL A  
CHANNEL BRACKET (SUPPLIED BY DETECTOR MANUFACTURER)  
N.T.S.

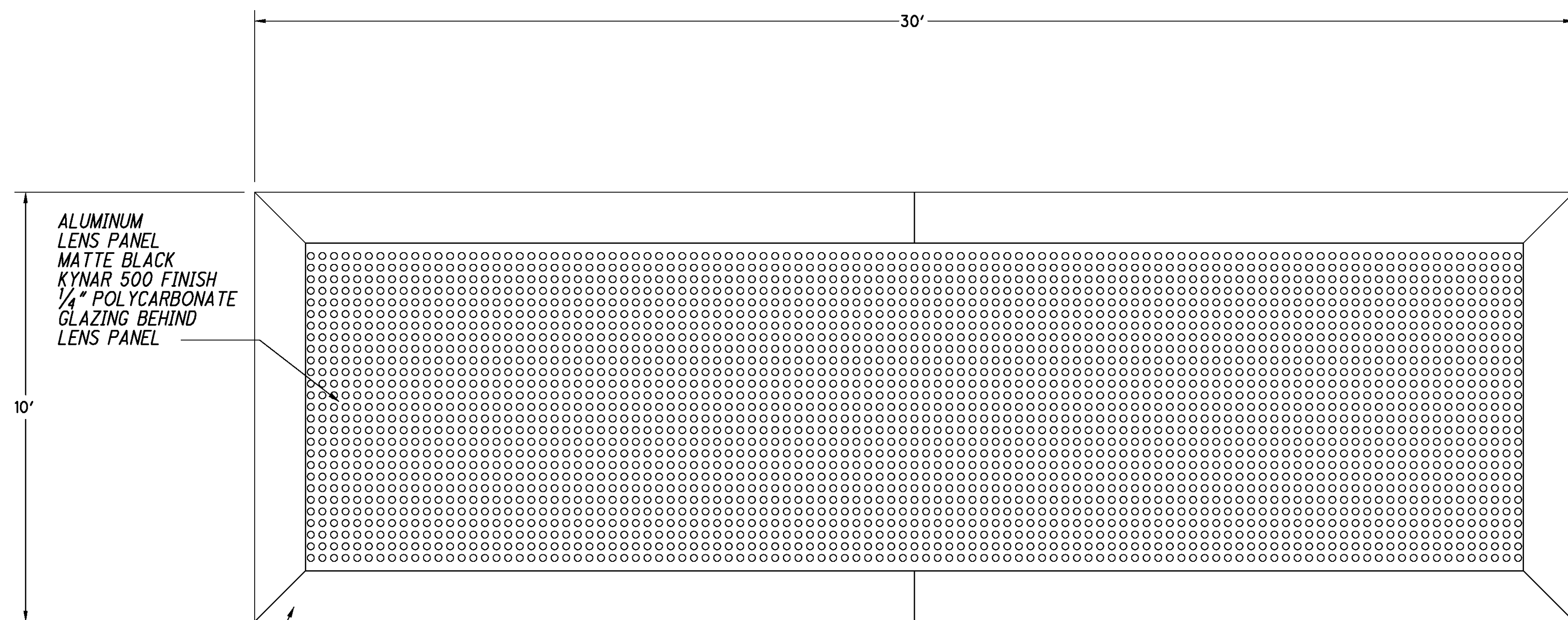
NOTES:

1. MOUNT VEHICLE DETECTOR ASSEMBLY SO THAT THE DETECTOR IS MOUNTED ON THE ROADWAY SIDE OF POLE AT A HEIGHT RECOMMENDED BY THE MANUFACTURER.
2. SUPPORT HOOKS SHOULD BE APPROPRIATELY SIZED FOR THE NUMBER AND SIZE OF CONDUCTORS TO BE SUPPORTED. SUPPORT ELECTRICAL AND COMMUNICATION CABLES WITH SEPARATE HOOKS.
3. RUN ALL WIRING INSIDE THE POLE AND PROVIDE STRAIN RELIEF AND SUPPORT FOR ALL CONTROL CABLES.
4. SEE PLAN SHEETS FOR VEHICLE DETECTOR LOCATIONS
5. WHEN INSTALLING THE MOUNTING BRACKETS FOR VEHICLE DETECTORS, ALIGN AND ANGLE THE DETECTORS TO COVER THE DETECTION ZONE(S) AS INDICATED AND AS SPECIFIED.

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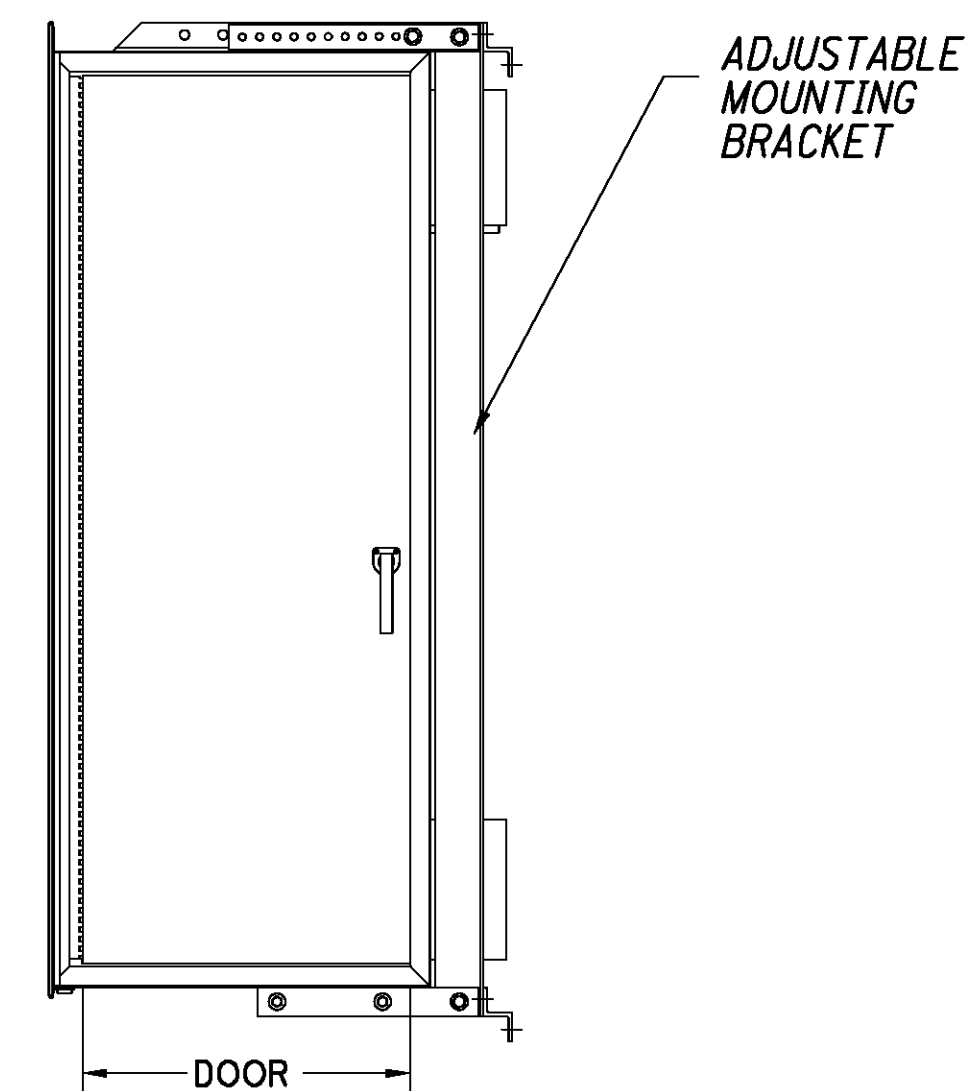


TOP VIEW



EXTRUDED ALUMINUM FASCIA  
MATTE BLACK  
KYNAR 500 FINISH

FRONT VIEW



END VIEW  
WALK-IN ENCLOSURE

CALCULATED  
STS  
CHECKED  
JDG

CHANGEABLE MESSAGE SIGN,  
UNLIMITED MESSAGE, AS PER PLAN A OR B

STA - SUM ITS

TO BE PROVIDED BY ODOT



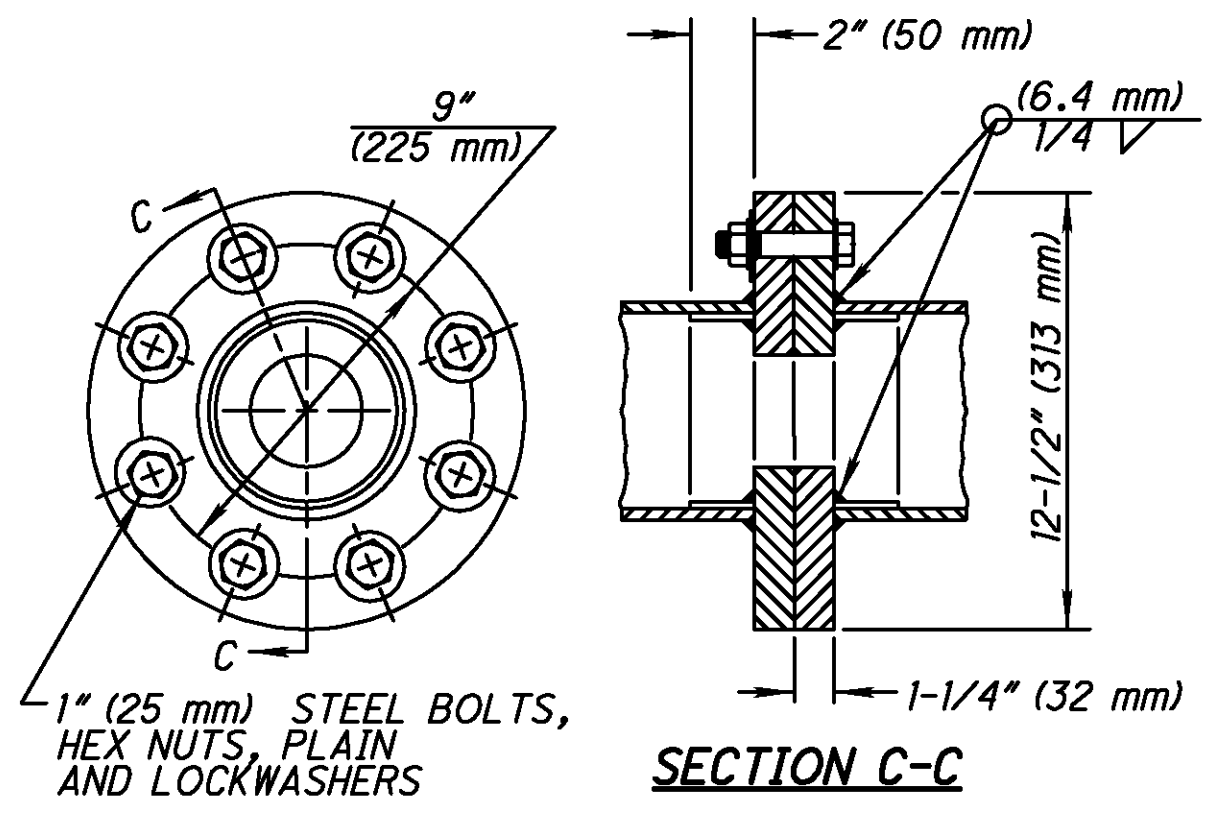
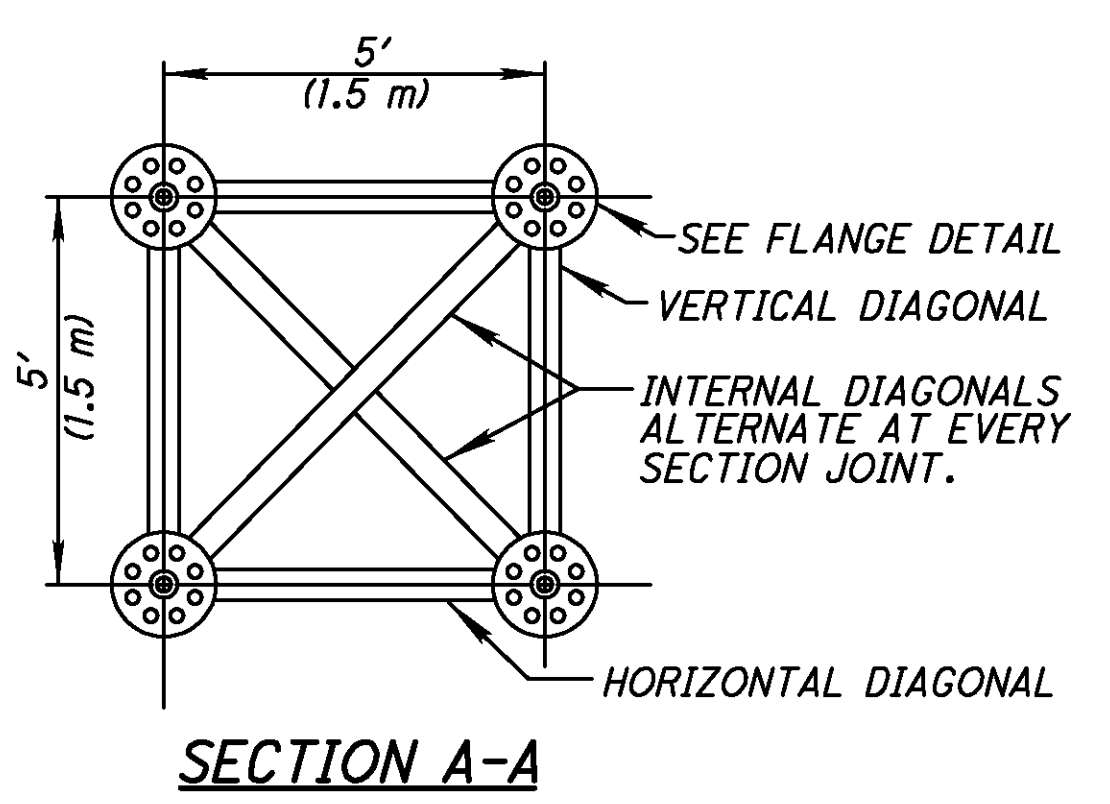
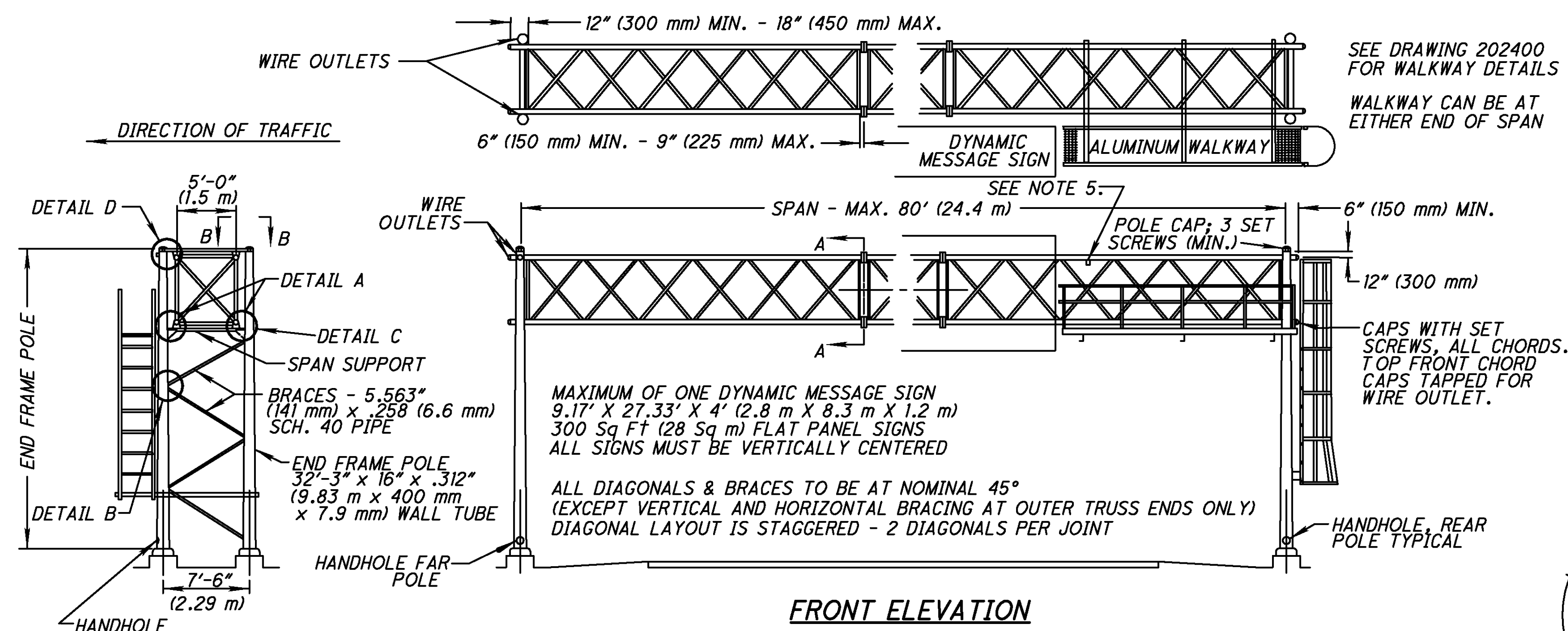
TO BE PROVIDED BY ODOT

TO BE PROVIDED BY ODOT

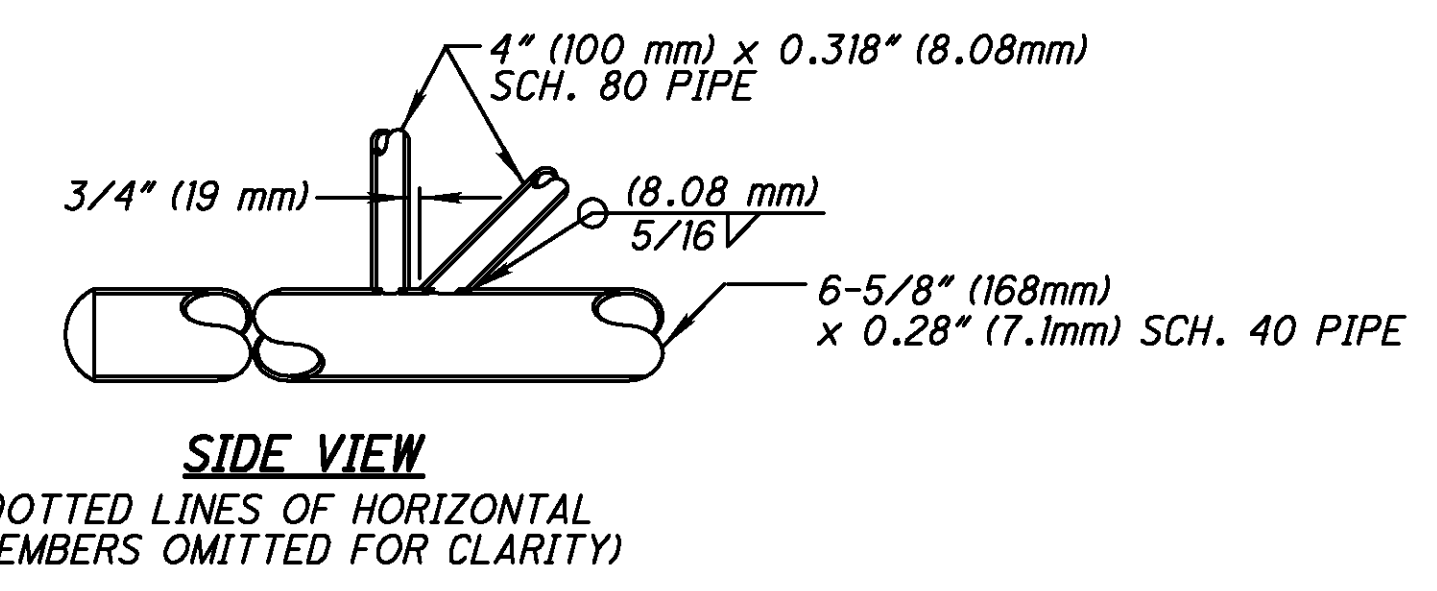
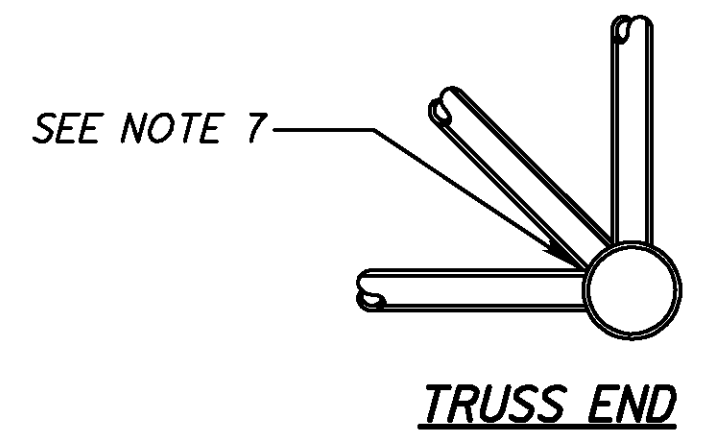
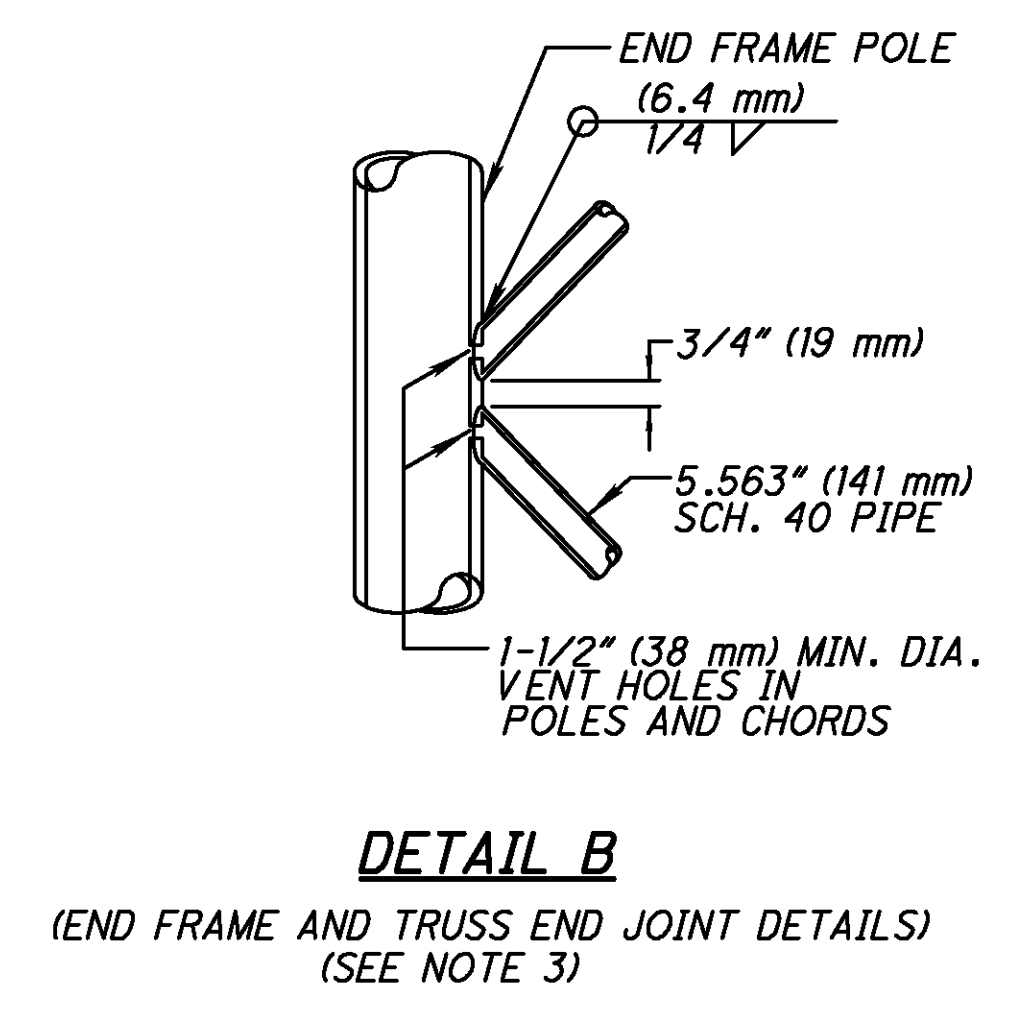
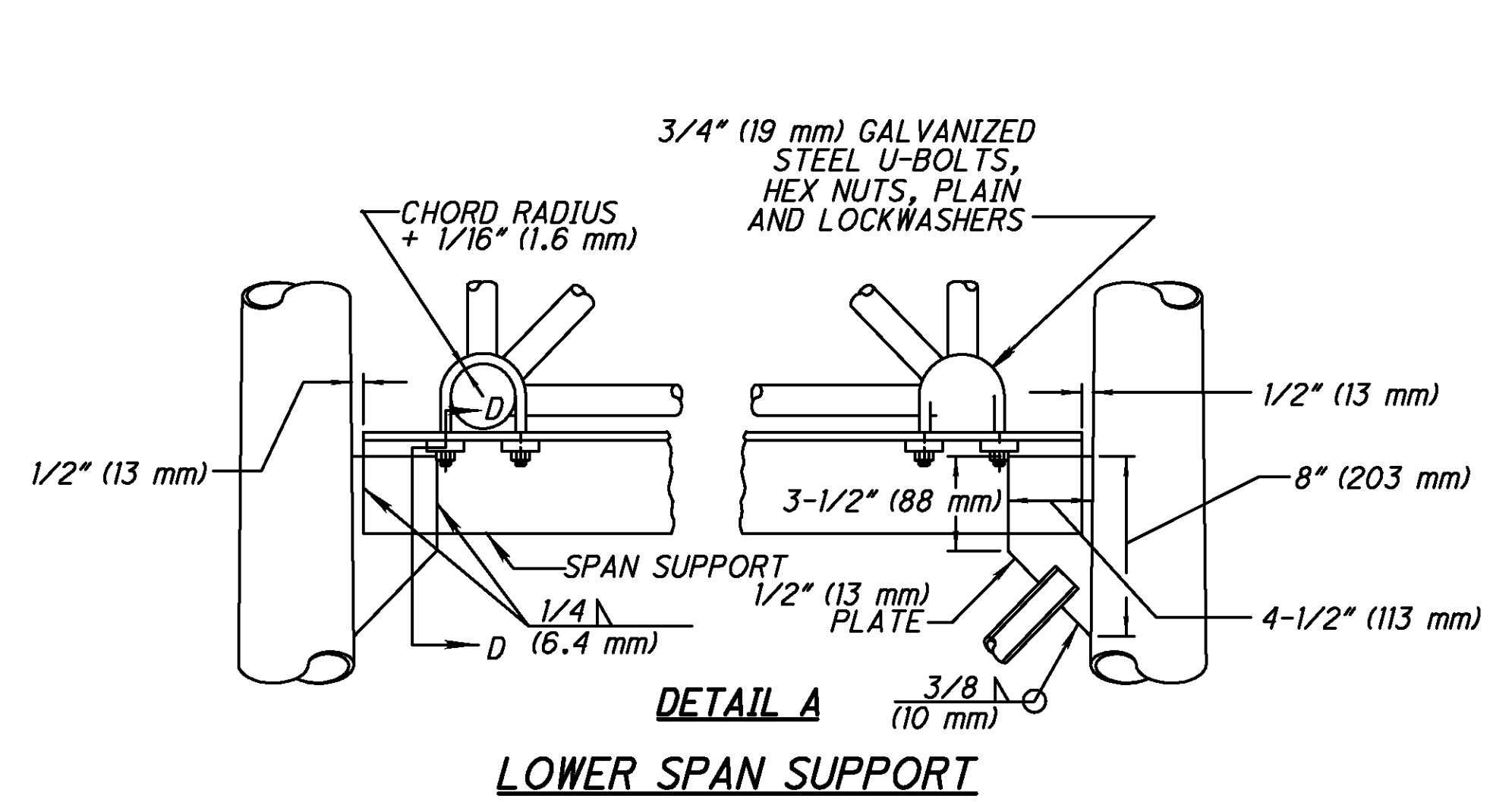
TO BE PROVIDED BY ODOT

TO BE PROVIDED BY ODOT

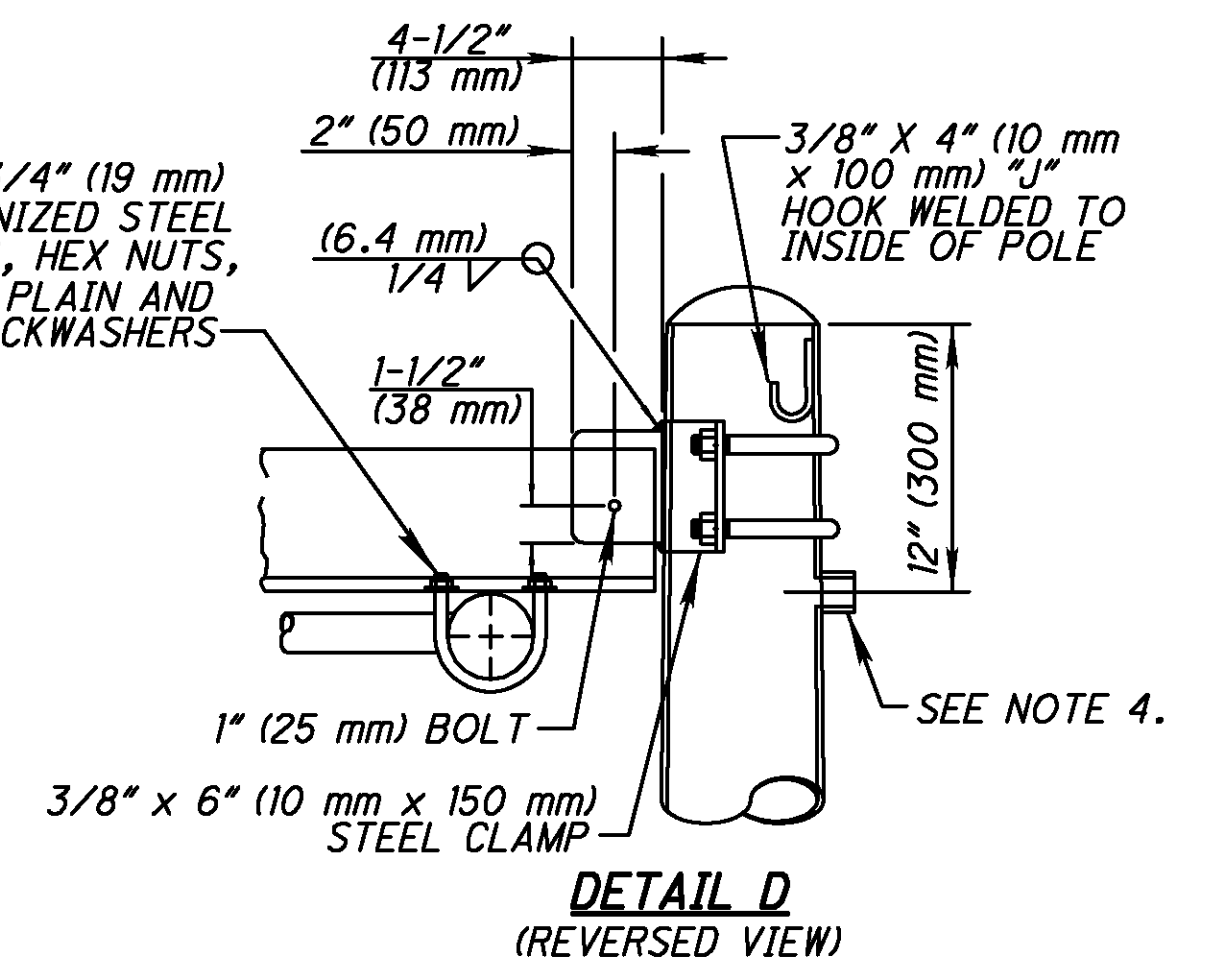
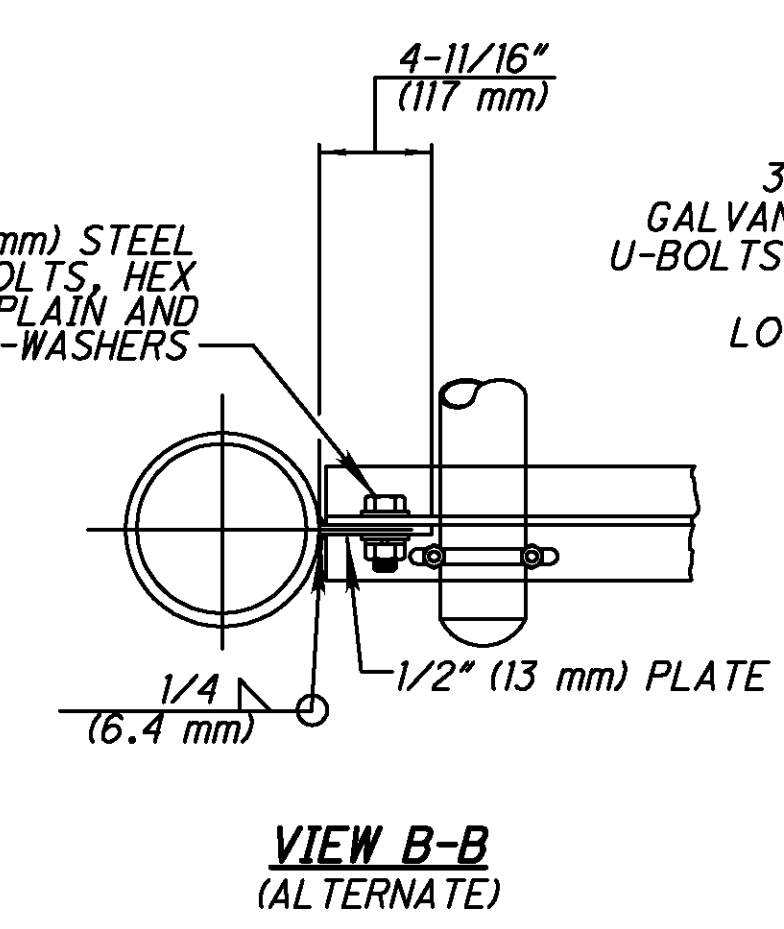
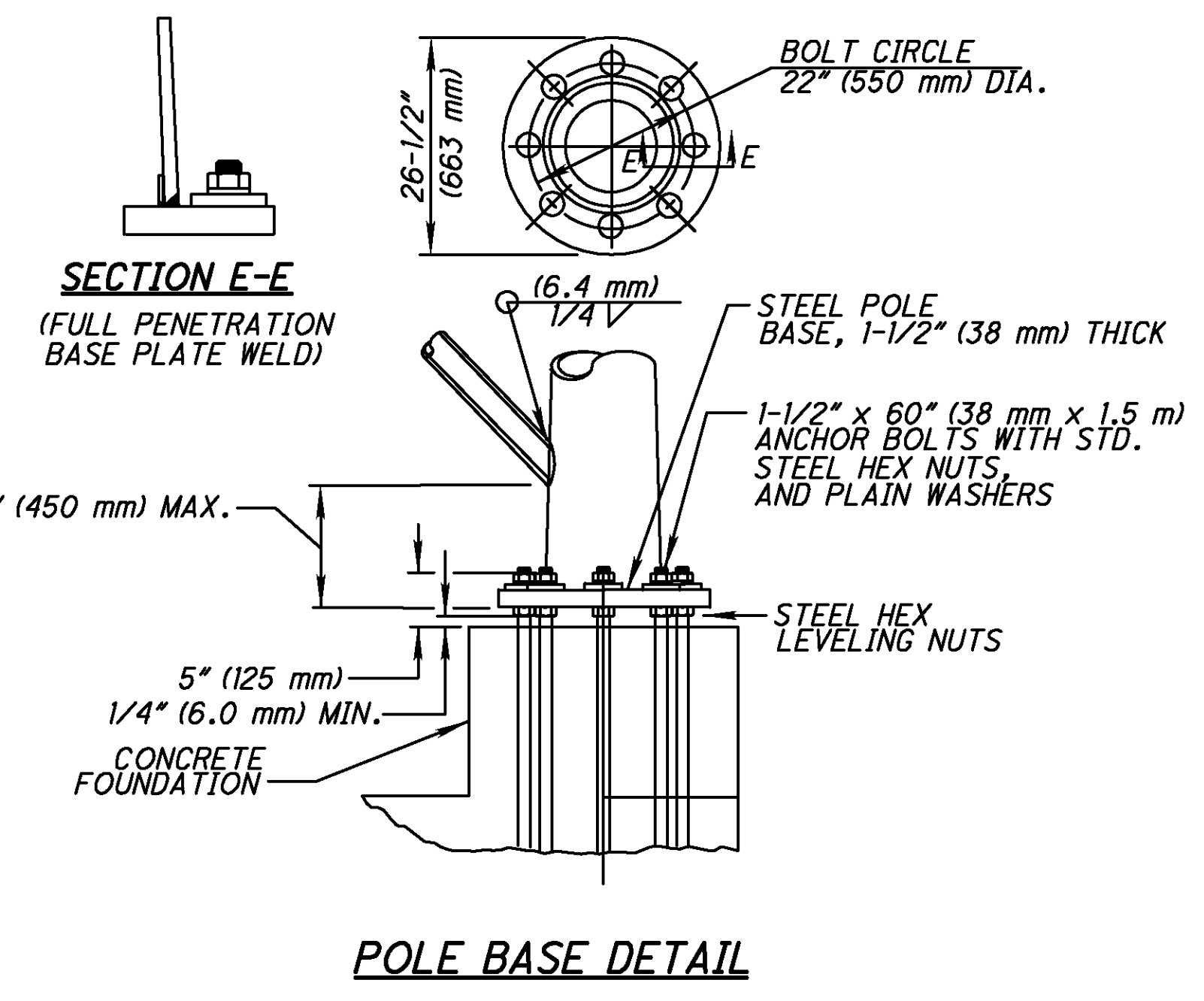
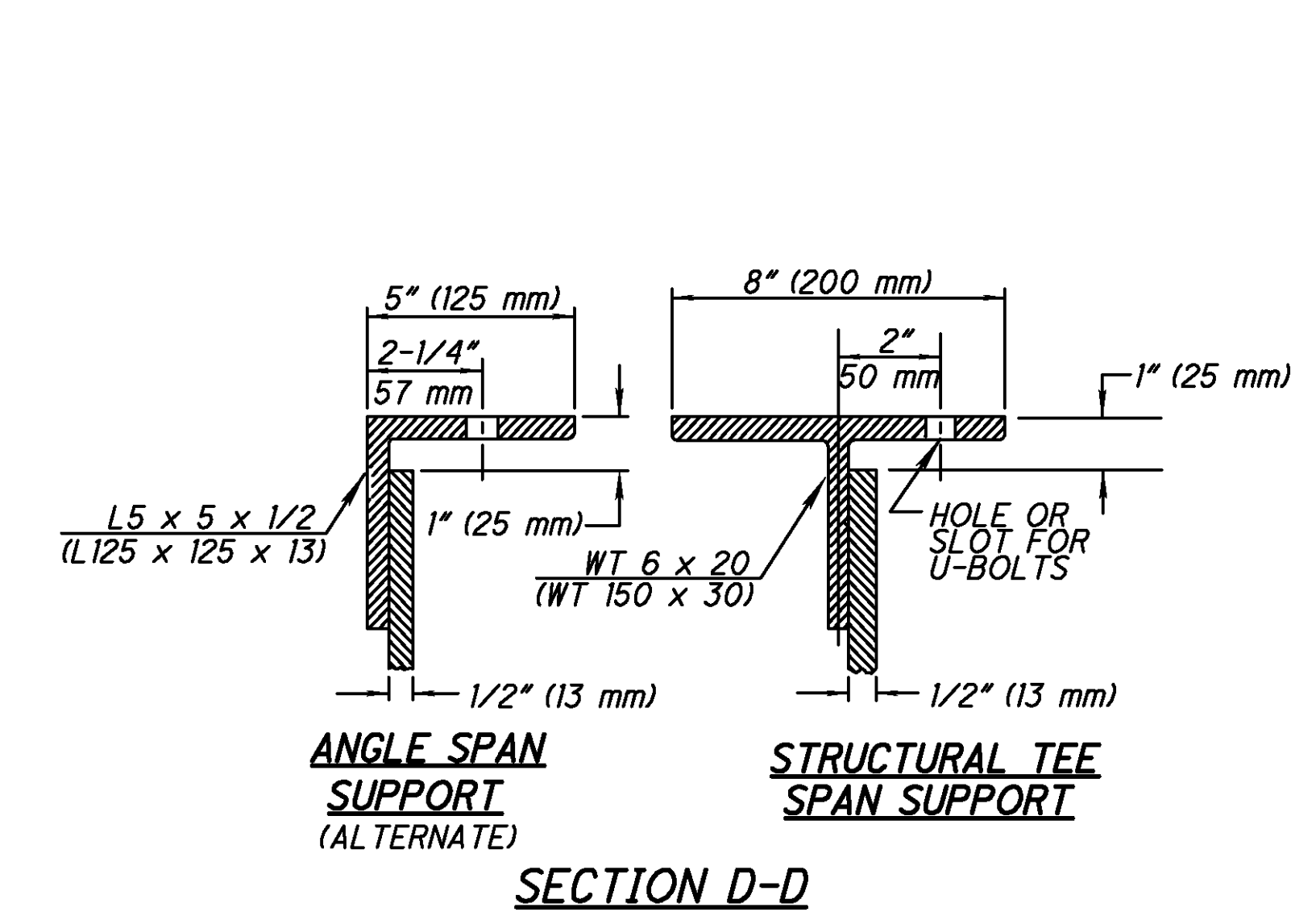




- NOTES:**
- FOR SIGN ATTACHMENT ASSEMBLIES TO BE FURNISHED WITH THIS SUPPORT, CONSTRUCTION DETAILS AND LOCATION OF HANDHOLES AND SWITCH ENCLOSURE MOUNTING BRACKETS, SEE DRAWINGS TC-22.10 AND TC-22.20.
  - FOR FOUNDATION DETAILS, SEE DRAWING FO-06-FOU.
  - ONE INTERNAL DIAGONAL IS REQUIRED AT EACH END OF EACH SECTION.
  - 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.
  - 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.
  - 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).
  - INTERNAL DIAGONALS ONLY MAY BE RELOCATED FROM THE INDICATED POSITION TO AVOID WELD JOINT OVERLAP.
  - PROVIDE A REMOVABLE GALVANIZED CAST IRON PLUG FOR ALL UNUSED COUPLINGS AND WIRE OUTLETS.
  - STEEL SHALL BE 35 KSI MINIMUM.
  - 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.

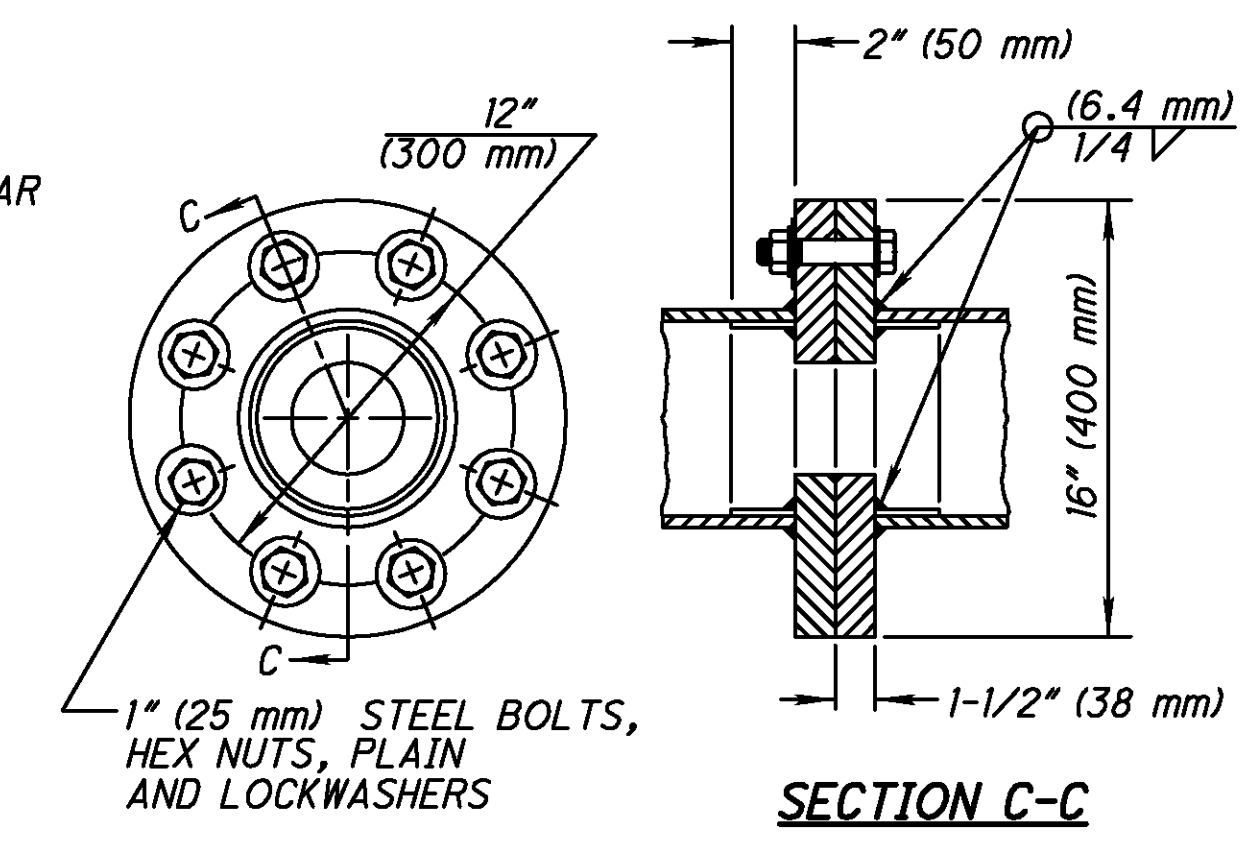
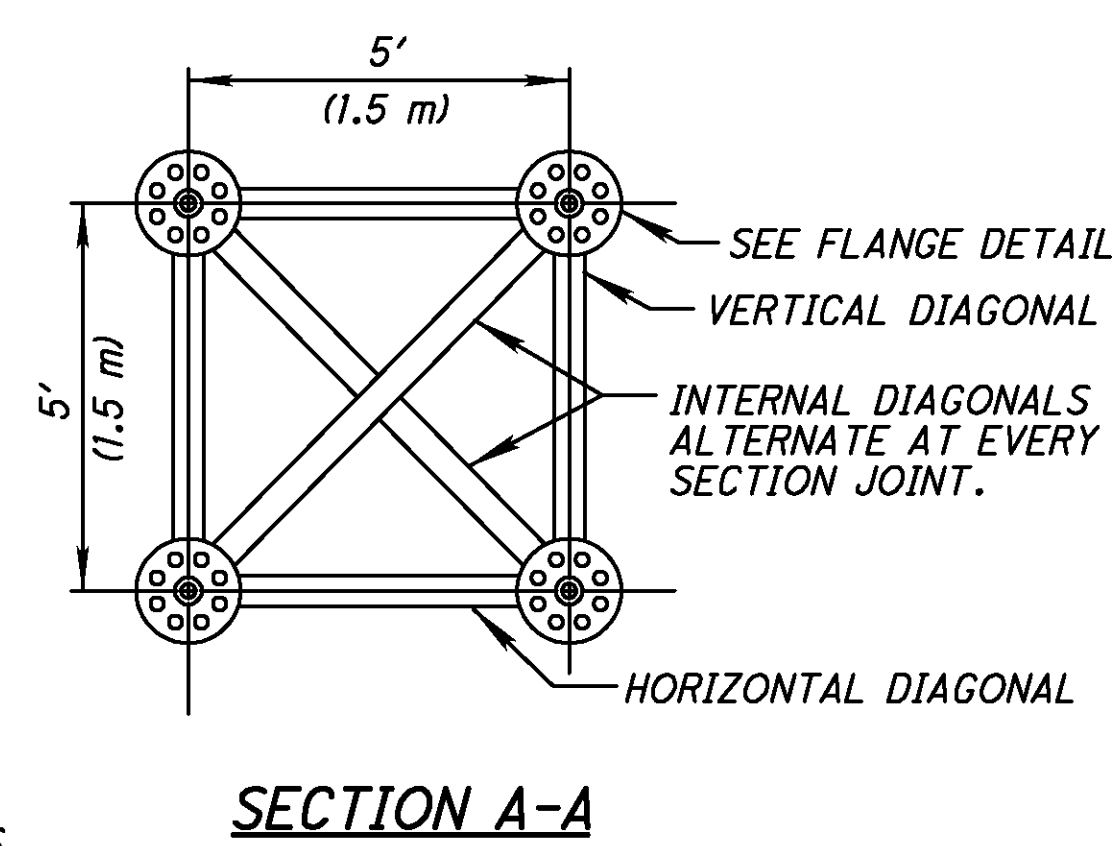
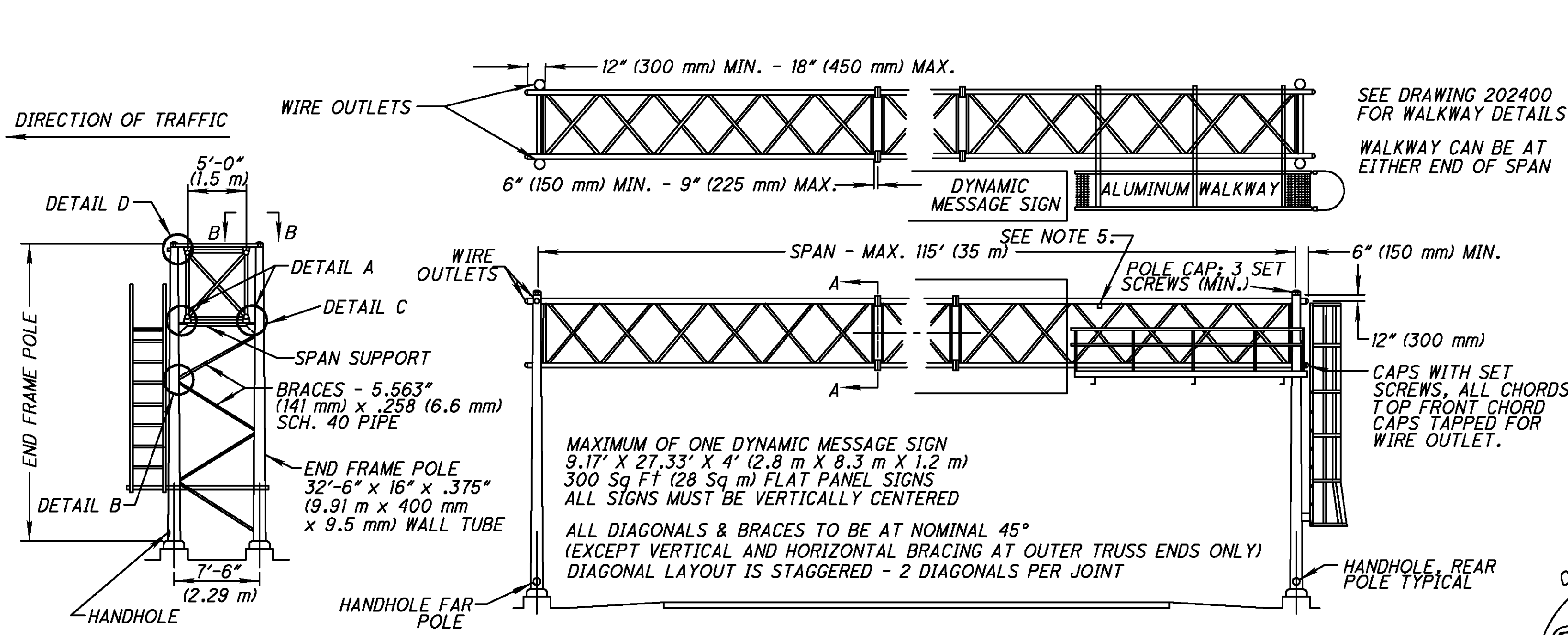


**DETAIL C**

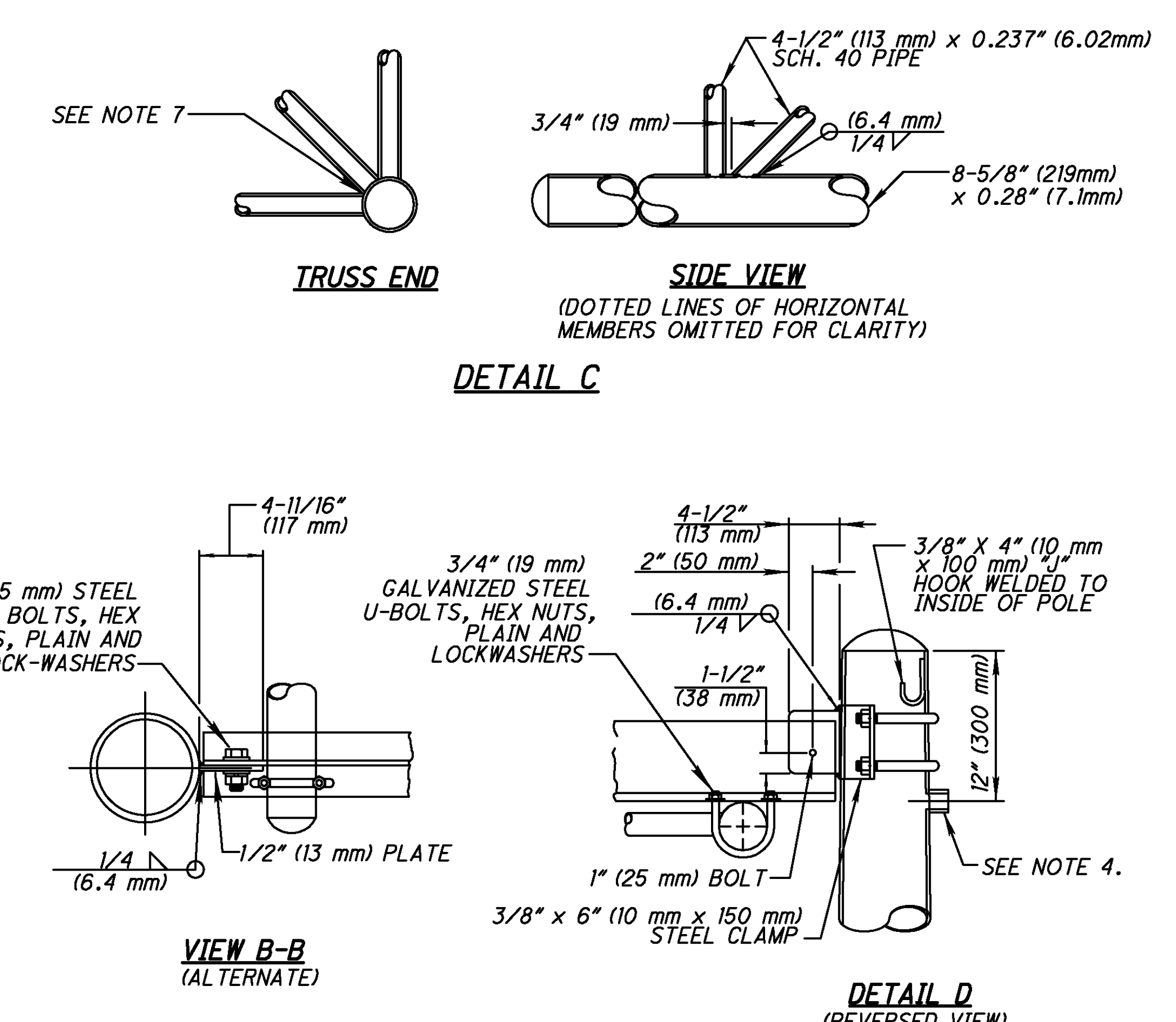
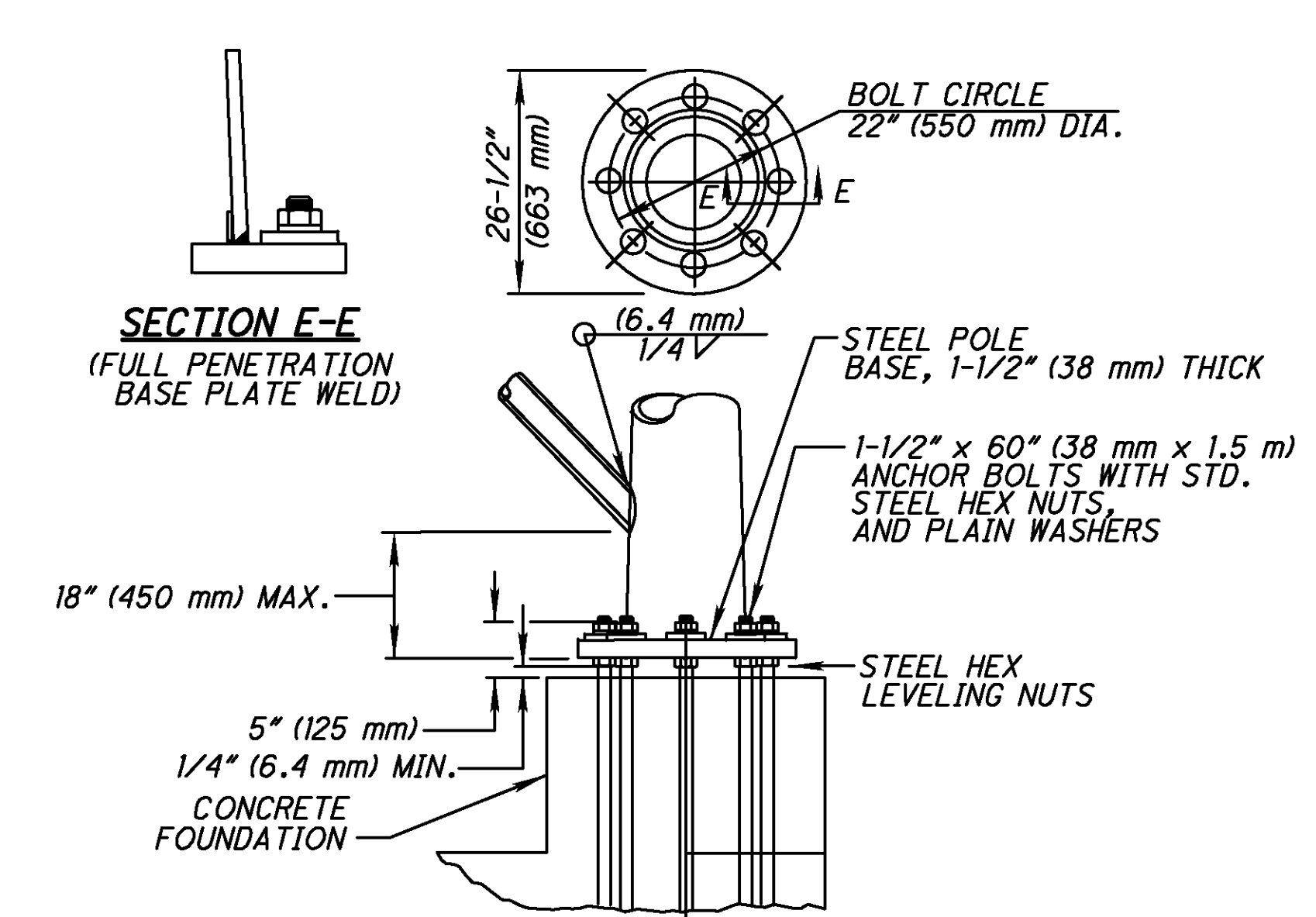
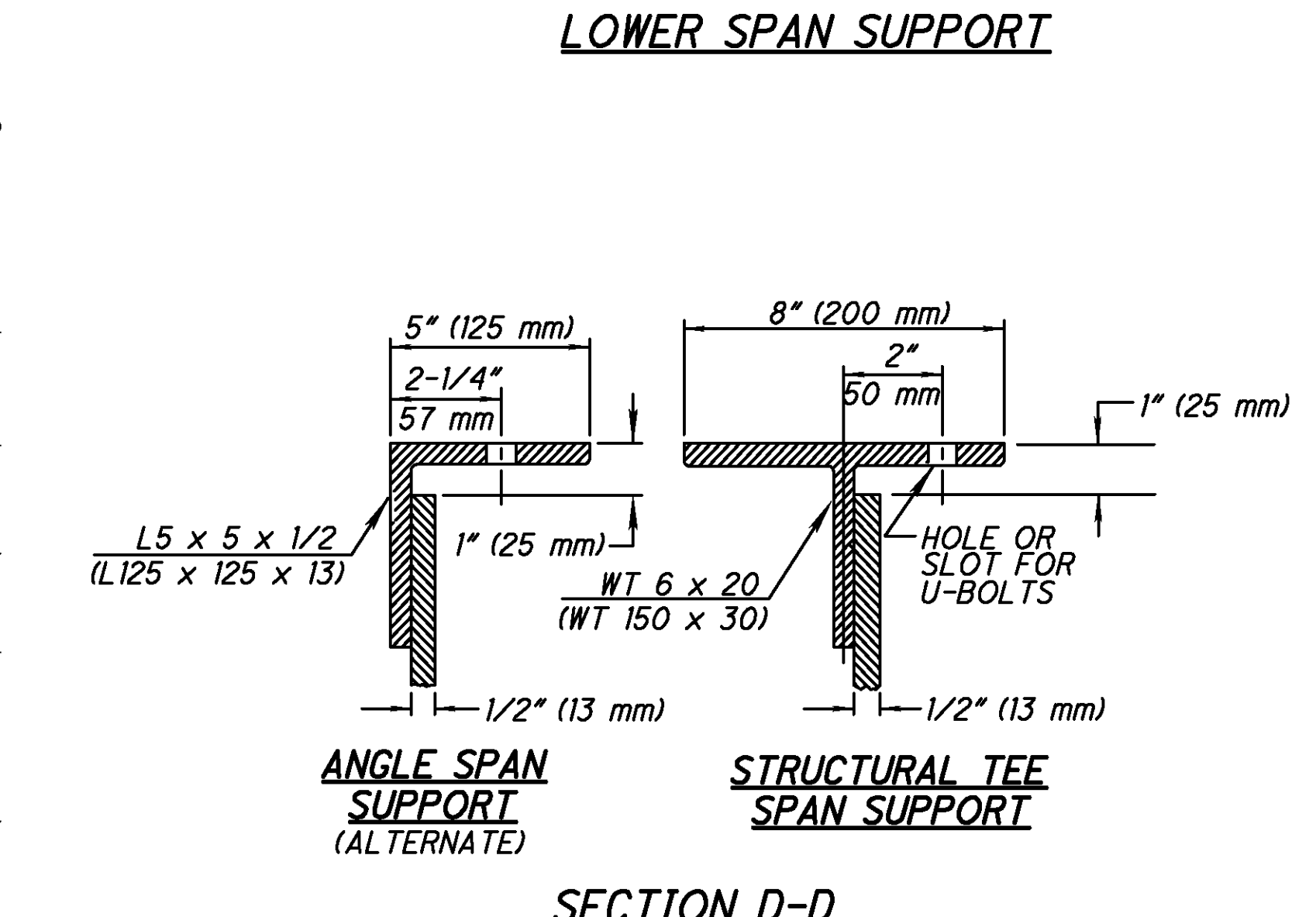
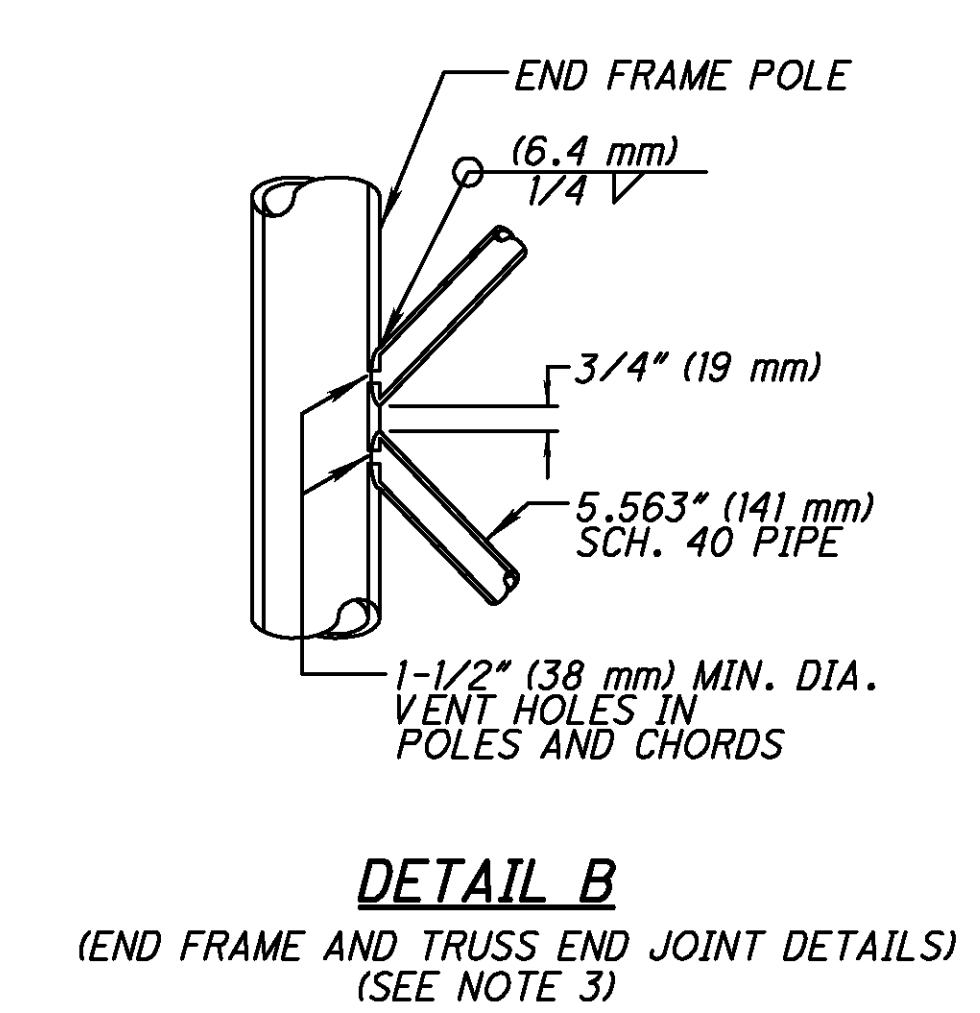
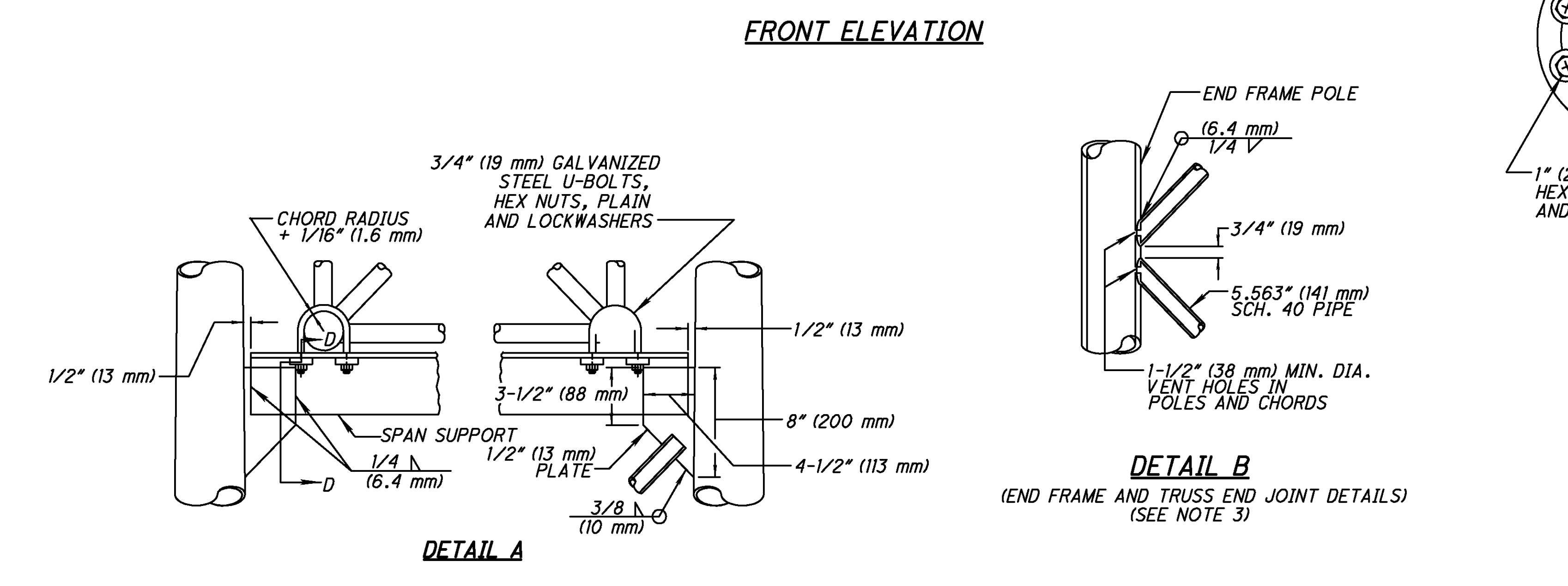


**UPPER SPAN SUPPORT**

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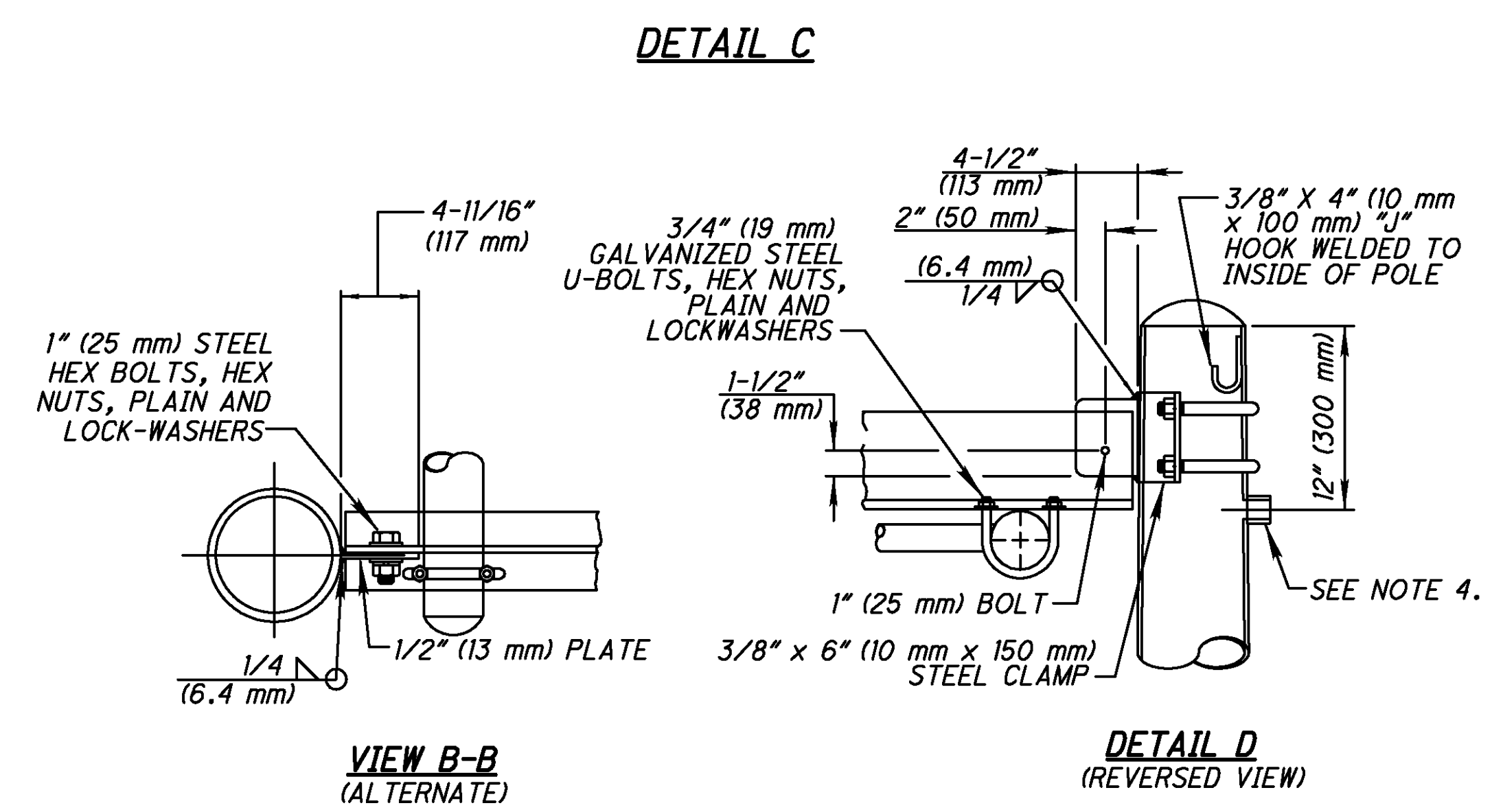
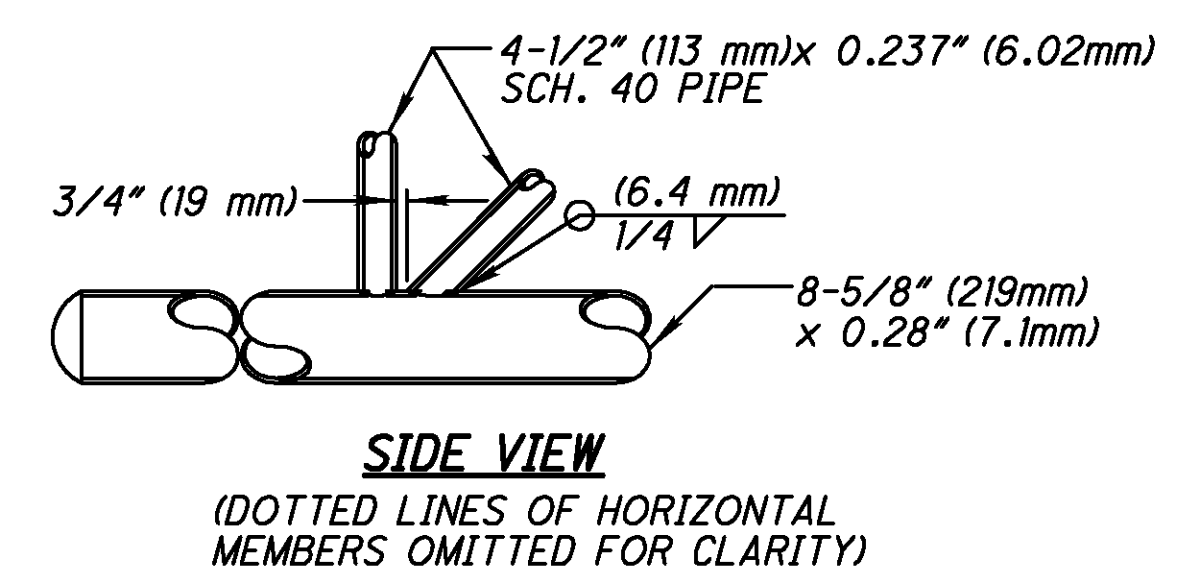
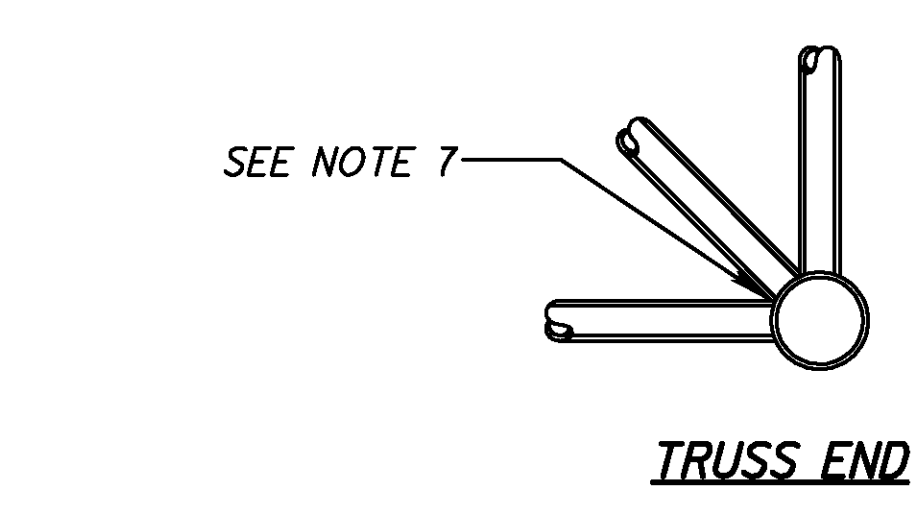
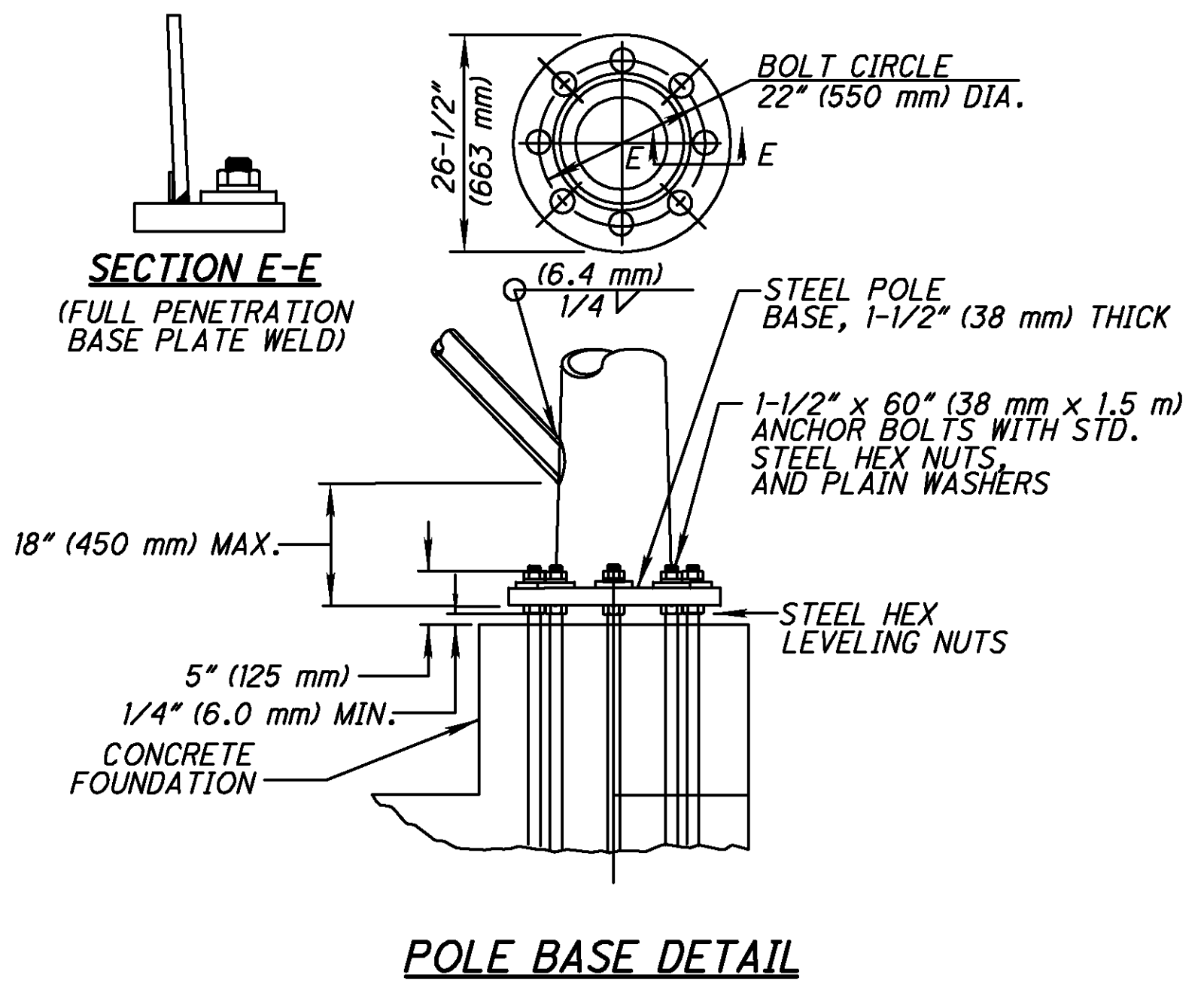
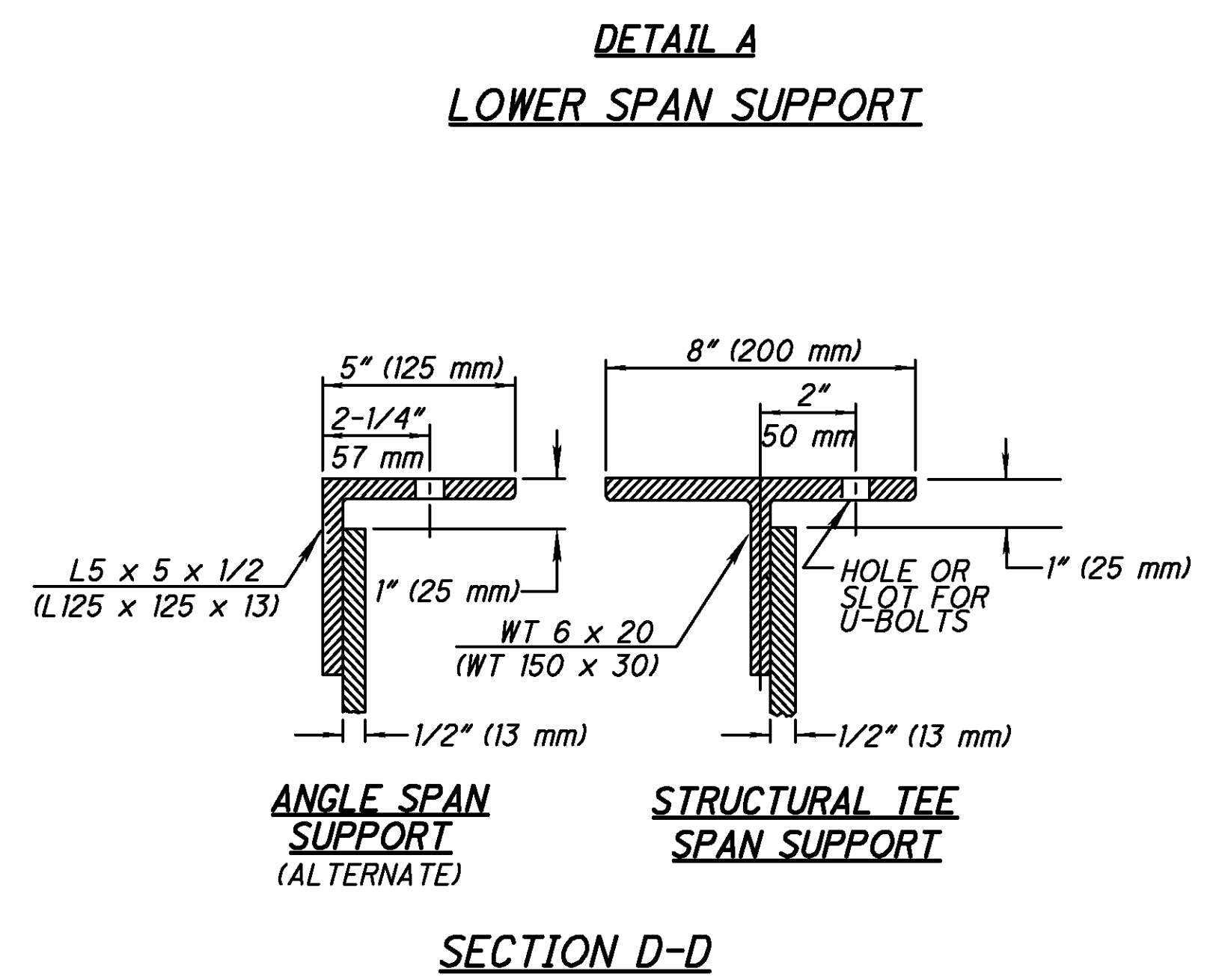
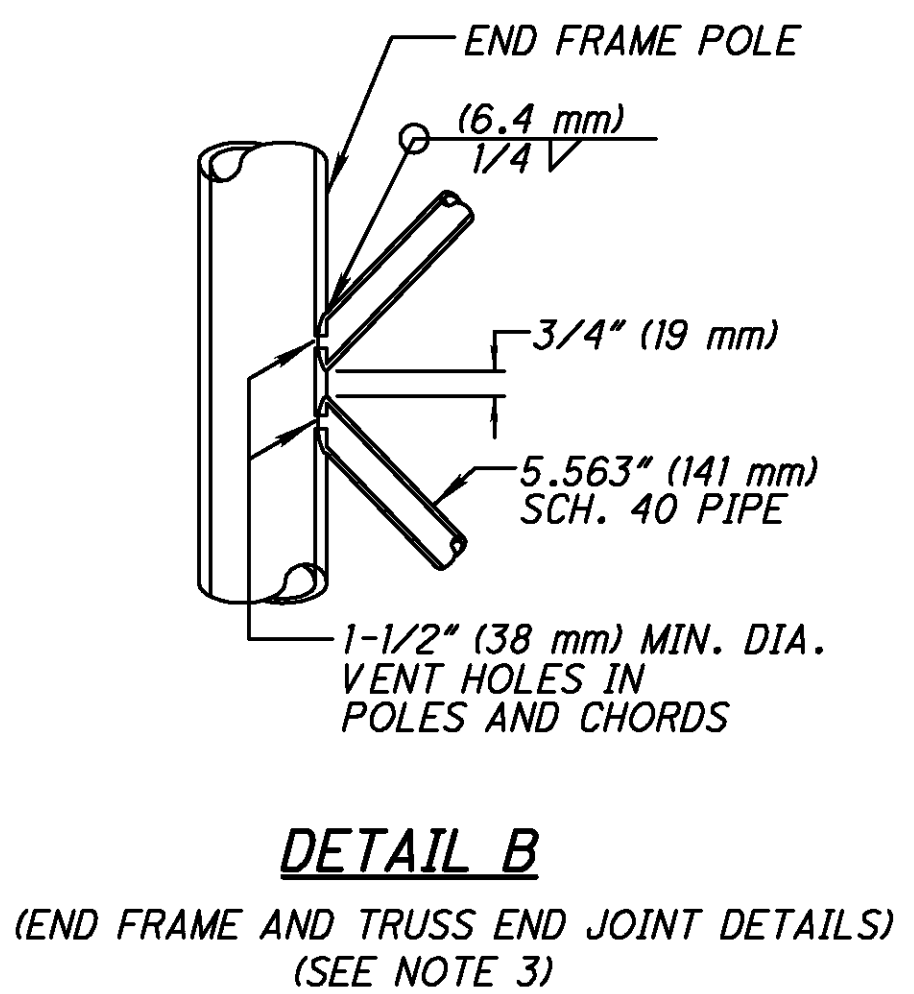
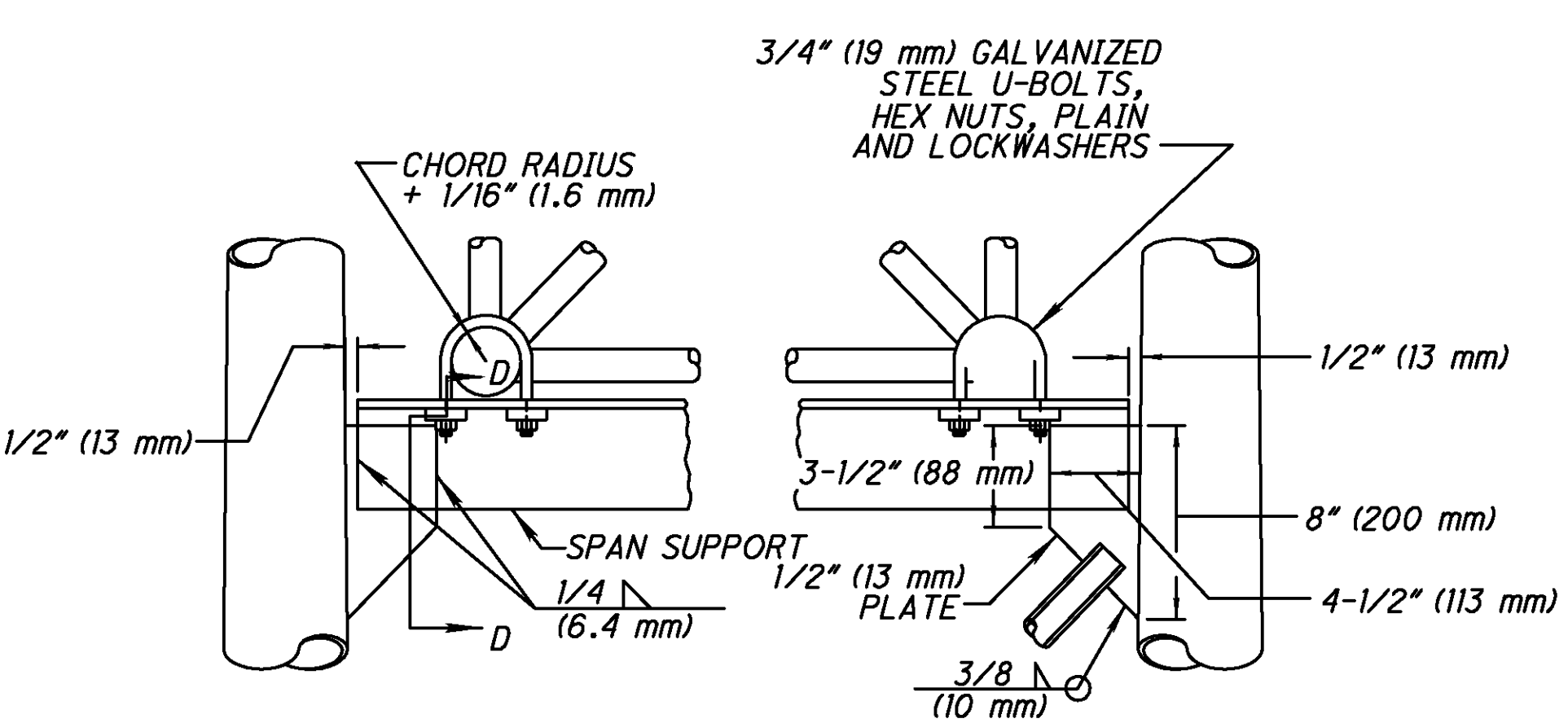
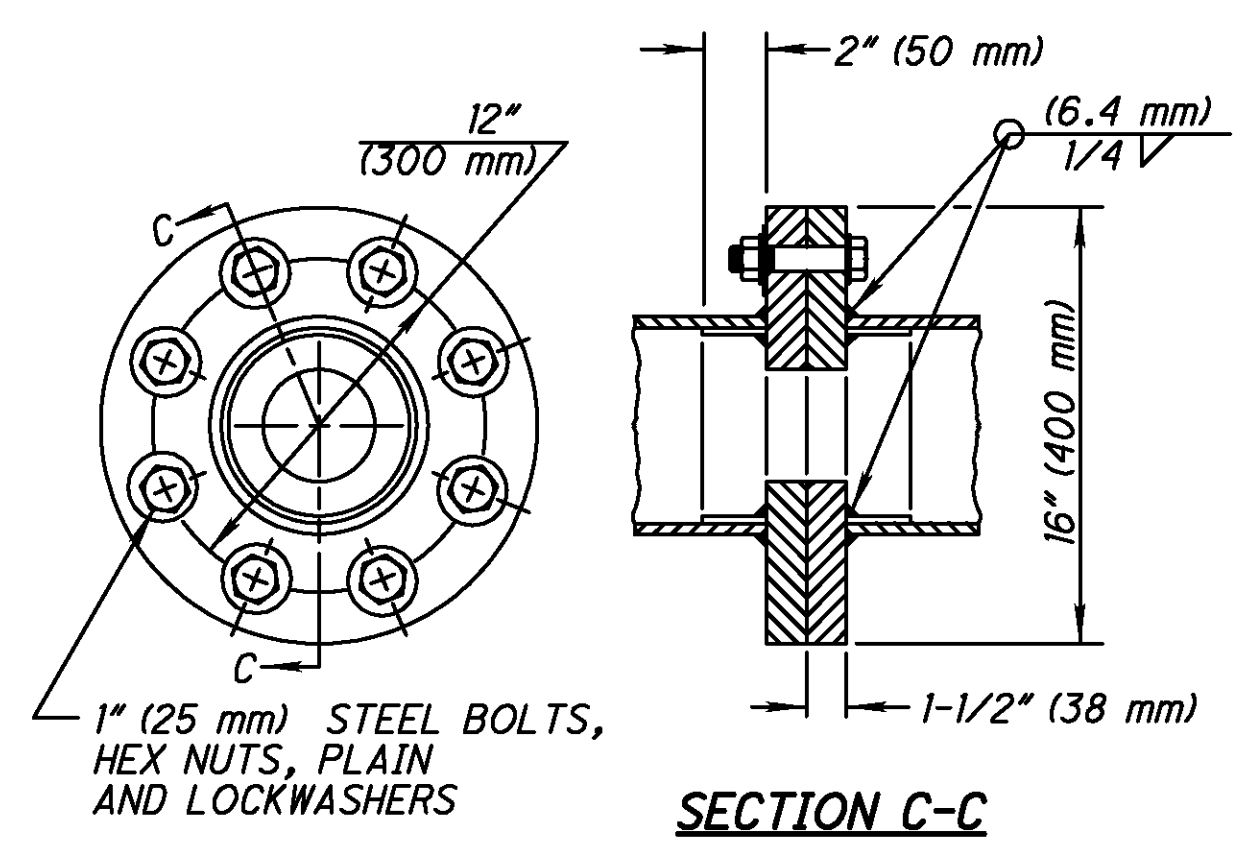
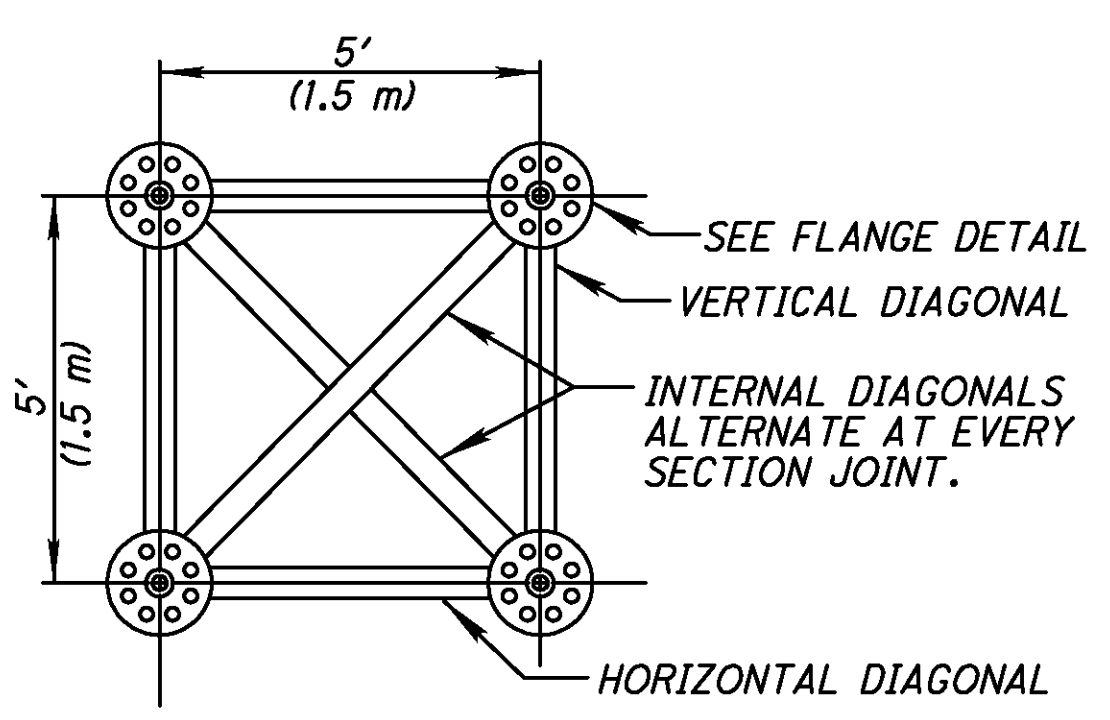
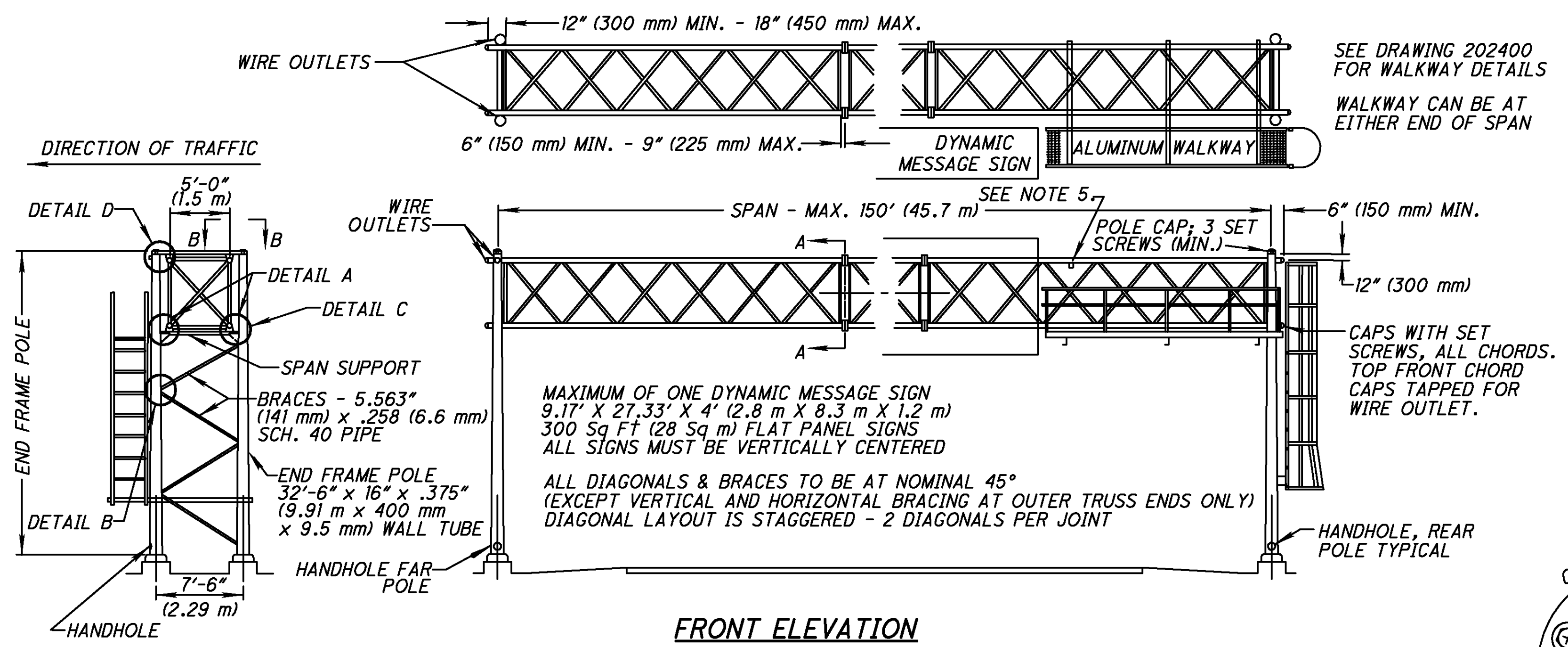


- NOTES:**
- FOR SIGN ATTACHMENT ASSEMBLIES TO BE FURNISHED WITH THIS SUPPORT, CONSTRUCTION DETAILS AND LOCATION OF HANDHOLES AND SWITCH ENCLOSURE MOUNTING BRACKETS, SEE DRAWINGS TC-22.10 AND TC-22.20.
  - FOR FOUNDATION DETAILS, SEE DRAWING FO-06-FOU.
  - ONE INTERNAL DIAGONAL IS REQUIRED AT EACH END OF EACH SECTION.
  - 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.
  - 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.
  - 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).
  - INTERNAL DIAGONALS ONLY MAY BE RELOCATED FROM THE INDICATED POSITION TO AVOID WELD JOINT OVERLAP.
  - PROVIDE A REMOVABLE GALVANIZED CAST IRON PLUG FOR ALL UNUSED COUPLINGS AND WIRE OUTLETS.
  - STEEL SHALL BE 35 KSI MINIMUM.
  - 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.



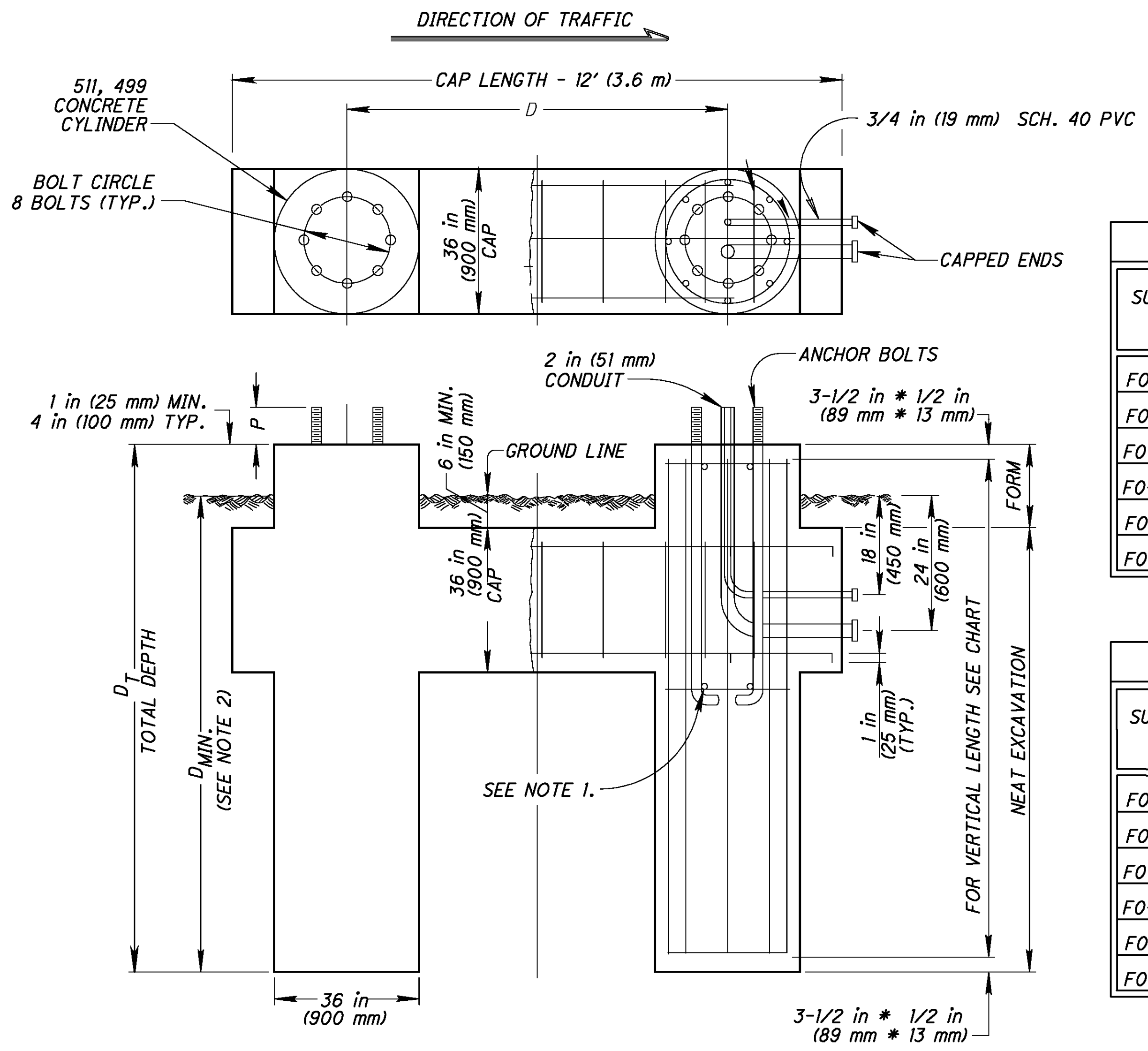
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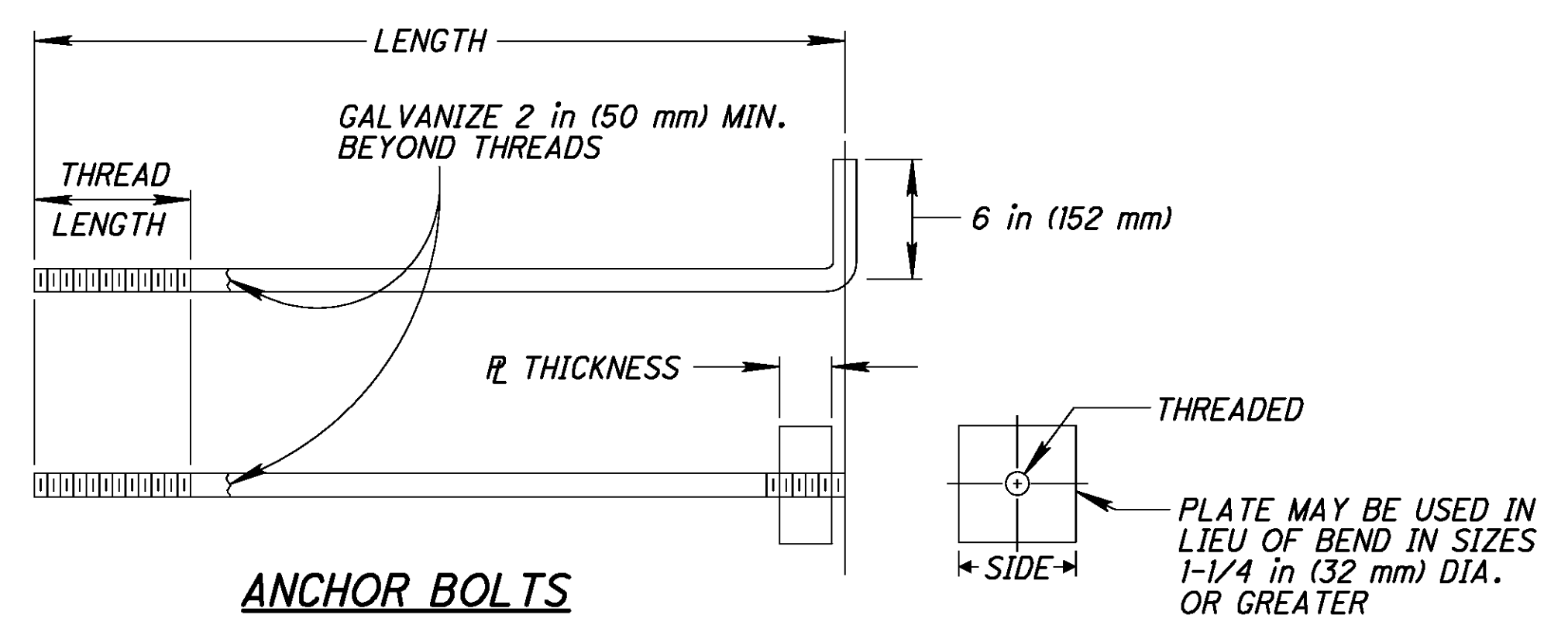
- NOTES:**
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  - FOR FOUNDATION DETAILS, SEE DRAWING FO-06-FOU.
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  - INTERNAL DIAGONALS ONLY MAY BE RELOCATED FROM THE INDICATED POSITION TO AVOID WELD JOINT OVERLAP.
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RIGHT HAND SHOWN - LEFT HAND OPPOSITE

CAP REINFORCEMENT FOR ALL CAPS				
	NUMBER OF BARS	SIZE BARS	SPACING TOP BARS	LENGTH TOP BARS
TOP LONGITUDINAL	11	8	2.8"	11.25
BOTTOM LONGITUDINAL	11	8	2.8"	11.25
STIRRUPS	14	4	12" C/C	-



ALL DIMENSIONS IN INCHES UNLESS OTHERWISE NOTED

SUPPORT TYPE	TRUSS BOX SIZE	D	D MIN.	ANCHOR BOLTS							
				CIRCLE	DIA.	LENGTH	THREAD LENGTH	P	P THICK	P SIDE	THREADS PER INCH
F0-06-80	5'-0"	7'-6"	21'-6"	22	1 1/2	60	9	5	1 1/2	4	6
F0-06-80A	5'-0"	7'-6"	19'-6"	22	1 1/2	60	9	5	1 1/2	4	6
F0-06-115	5'-0"	7'-6"	26'-6"	22	1 1/2	60	9	5	1 1/2	4	6
F0-06-115A	5'-0"	7'-6"	22'-6"	22	1 1/2	60	9	5	1 1/2	4	6
F0-06-150	5'-0"	7'-6"	28'-6"	22	1 1/2	60	9	5	1 1/2	4	6
F0-06-150A	5'-0"	7'-6"	24'-6"	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	P THICK	P 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
F0-06-80A	1.52 m	2.29 m	5.94 m	550	38	1.52 m	229	127	38	102	4.2
F0-06-115	1.52 m	2.29 m	8.08 m	550	38	1.52 m	229	127	38	102	4.2
F0-06-115A	1.52 m	2.29 m	6.86 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
F0-06-150A	1.52 m	2.29 m	7.47 m	550	38	1.52 m	229	127	38	102	4.2

FOUNDATION REINFORCEMENT SCHEDULE (STANDARD)

SUPPORT TYPE	NUMBER VERTICAL BARS	SIZE VERTICAL BARS	LENGTH VERTICAL BARS	SPACING VERTICAL BARS	# TIES	SIZE TIES	SPACING TIES
F0-06-80	10	#6	21 FT	9.5"	22	#4	12" C/C MAX
F0-06-80A	10	#6	19 FT	9.5"	20	#4	12" C/C MAX
F0-06-115	10	#6	26 FT	9.5"	27	#4	12" C/C MAX
F0-06-115A	10	#6	22 FT	9.5"	23	#4	12" C/C MAX
F0-06-150	10	#6	28 FT	9.5"	29	#4	12" C/C MAX
F0-06-150A	10	#6	24 FT	9.5"	25	#4	12" C/C MAX

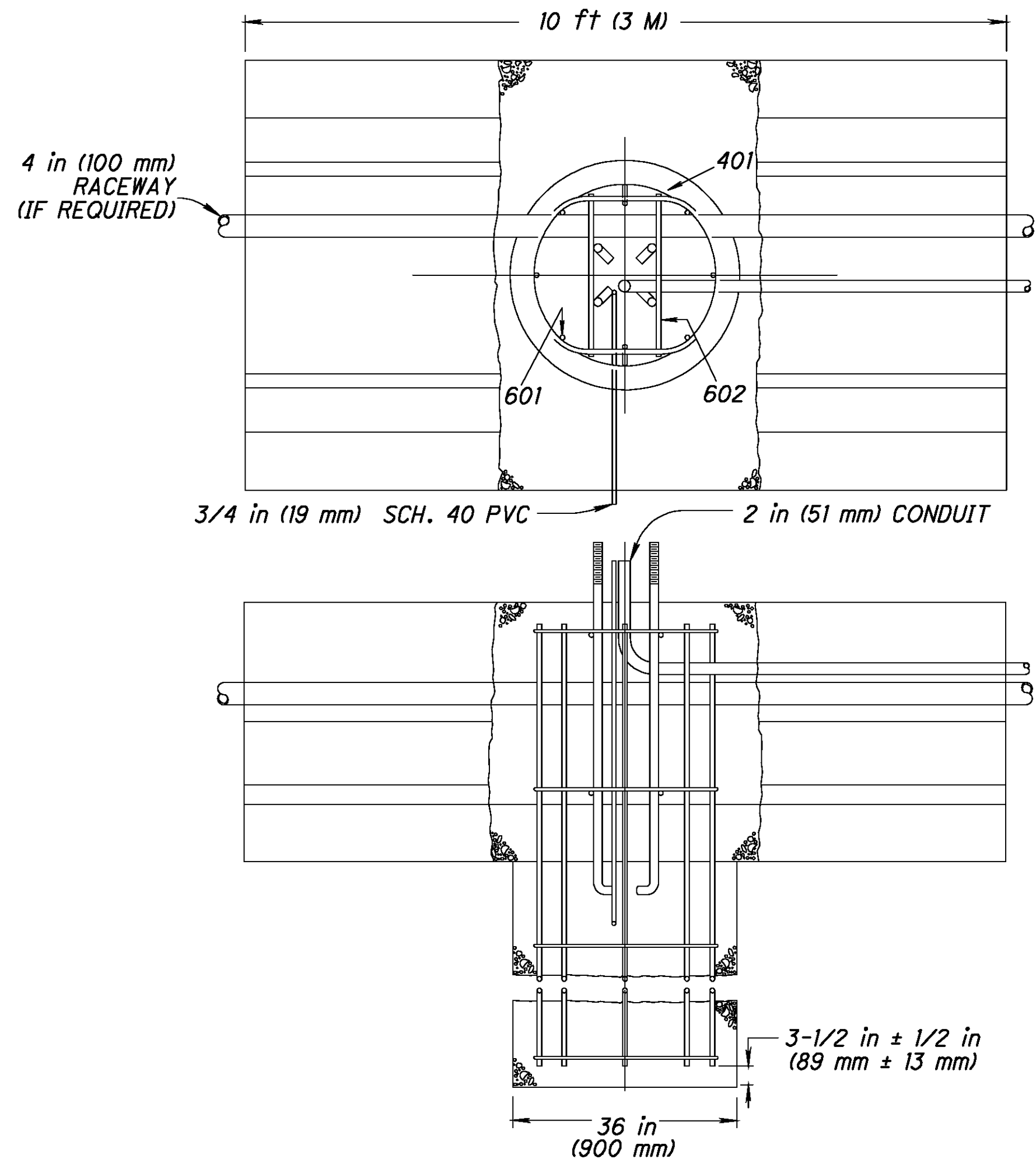
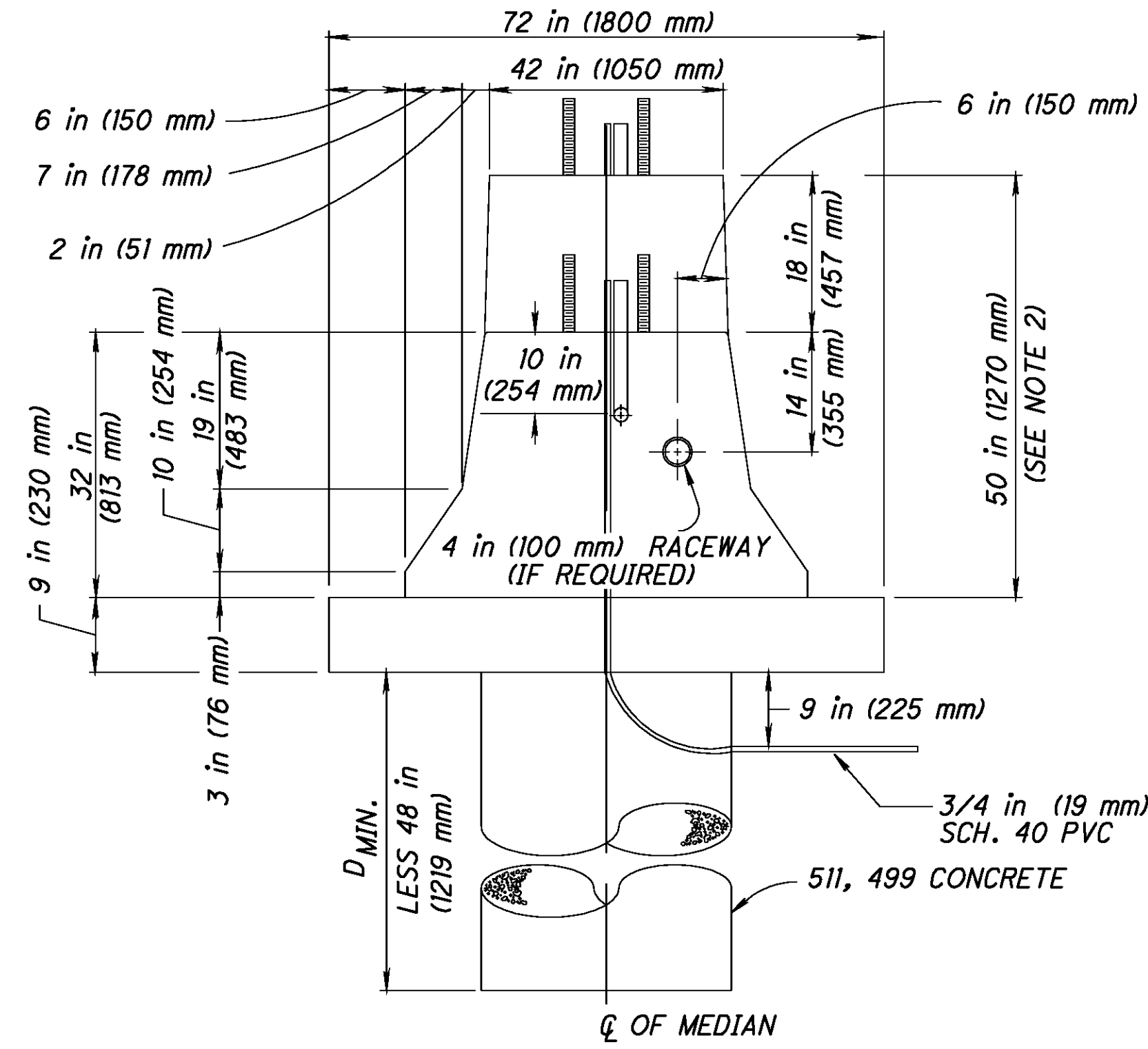
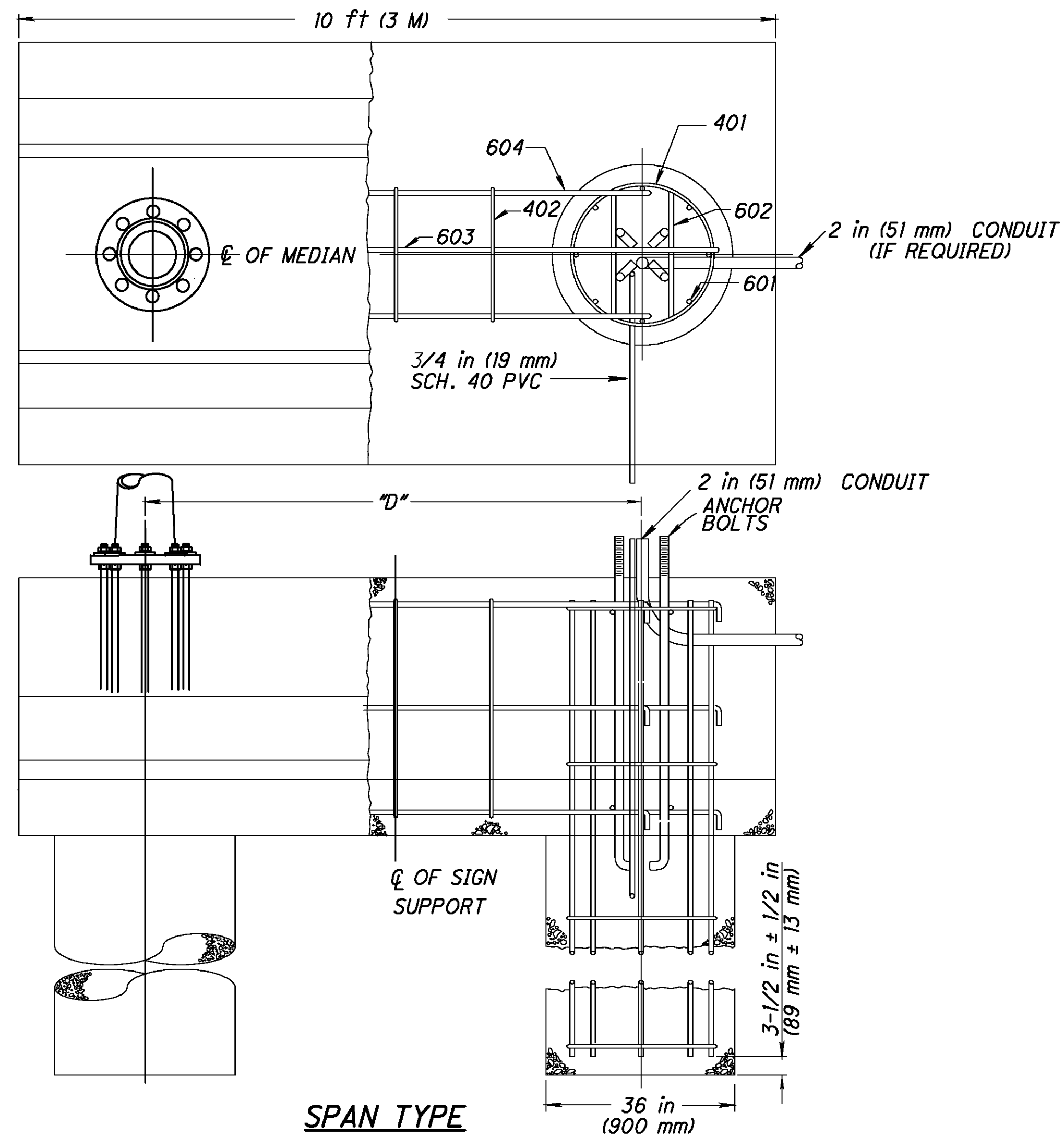
FOUNDATION REINFORCEMENT SCHEDULE (METRIC)

SUPPORT TYPE	NUMBER VERTICAL BARS	SIZE VERTICAL BARS	LENGTH VERTICAL BARS	SPACING VERTICAL BARS	# TIES	SIZE TIES	SPACING TIES
F0-06-80	10	#6	6.3 m	20 mm	22	#4	25 mm C/C MAX
F0-06-80A	10	#6	5.7 m	20 mm	20	#4	25 mm C/C MAX
F0-06-115	10	#6	7.8 m	20 mm	27	#4	25 mm C/C MAX
F0-06-115A	10	#6	6.6 m	20 mm	23	#4	25 mm C/C MAX
F0-06-150	10	#6	8.4 m	20 mm	29	#4	25 mm C/C MAX
F0-06-150A	10	#6	7.2 m	20 mm	25	#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 ADOPTED BY THE ENGINEER, ALTERNATE FOUNDATION DESIGNS ARE ACCEPTABLE.
  4. PROVIDE ALL ANCHOR BOLTS WITH STANDARD STEEL HEX SHALL BE CAPABLE OF DEVELOPING THE FULL STRENGTH NUTS, LEVELING NUTS, AND PLAIN WASHERS. THE NUTS OF THE ANCHOR BOLTS. GREATER, THE BURIED DEPTH OF FOUNDATION SHALL APPLY
  5. AT LOCATIONS WHERE THE EXISTING SLOPE IS 6:1 OR 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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**CANTILEVER, BUTTERFLY OR CENTER MOUNT TYPE**

**NOTES:**

- THIS FOUNDATION IS INTENDED FOR USE WITH CONCRETE BARRIER AS DETAILED IN STANDARD CONSTRUCTION DRAWING RM-4.3M.
- IF A 50 INCH (1270 MM) WALL IS REQUIRED THE REINFORCING STEEL AND ANCHOR BOLTS SHALL REMAIN IN THE SAME POSITION, RELATIVE TO THE TOP OF THE WALL, AS IN THE 32 INCH (813 MM) WALL.
- REFER TO STANDARD CONSTRUCTION DRAWINGS TC-21.10 AND TC-32.10 FOR TYPICAL DIMENSIONS WITH THE FOLLOWING MODIFICATIONS TO THE REINFORCEMENT SCHEDULES:
  - 32 INCH (813 MM) WALL**  
 MARK 601 LENGTH = D MIN. - 13 INCH (330 MM)  
 MARK 603 NUMBER = 3  
 MARK 604 NUMBER = 6  
 MARK 402 VERTICAL DIMENSION = 34 INCH (864 MM)
  - 50 INCH (1270 MM) WALL**  
 MARK 601 LENGTH = D MIN. + 5 INCH (127 MM)  
 MARK 603 NUMBER = 4  
 MARK 604 NUMBER = 8  
 MARK 402 VERTICAL DIMENSION = 52 INCH (1321 MM)
- FOR INFORMATION REGARDING THE TRANSITION SECTIONS OF THE BARRIER WALL, SEE STANDARD CONSTRUCTION DRAWING RM-4.4M.

**CAP REINFORCEMENT FOR ALL CAPS**

	NUMBER OF BARS	SIZE BARS	SPACING TOP BARS	LENGTH TOP BARS
TOP LONGITUDINAL	11	8	2.8"	11.25
BOTTOM LONGITUDINAL	11	8	2.8"	11.25
STIRRUPS	14	4	12" C/C	-

**ALL DIMENSIONS IN INCHES UNLESS OTHERWISE NOTED**

SUPPORT TYPE	TRUSS BOX SIZE	D	D MIN.	ANCHOR BOLTS							
				CIRCLE	DIA.	LENGTH	THREAD LENGTH	P	P THICK	P SIDE	THREADS PER INCH
FO-06-80	5'-0"	7'-6"	21'-6"	22	1 1/2	60	9	5	1 1/2	4	6
FO-06-80A	5'-0"	7'-6"	19'-6"	22	1 1/2	60	9	5	1 1/2	4	6
FO-06-115	5'-0"	7'-6"	26'-6"	22	1 1/2	60	9	5	1 1/2	4	6
FO-06-115A	5'-0"	7'-6"	22'-6"	22	1 1/2	60	9	5	1 1/2	4	6
FO-06-150	5'-0"	7'-6"	28'-6"	22	1 1/2	60	9	5	1 1/2	4	6
FO-06-150A	5'-0"	7'-6"	24'-6"	22	1 1/2	60	9	5	1 1/2	4	6

**FOUNDATION REINFORCEMENT SCHEDULE (STANDARD)**

SUPPORT TYPE	NUMBER VERTICAL BARS	SIZE VERTICAL BARS	LENGTH VERTICAL BARS	SPACING VERTICAL BARS	# TIES	SIZE TIES	SPACING TIES
FO-06-80	10	#6	21 FT	9.5"	22	#4	12" C/C MAX
FO-06-80A	10	#6	19 FT	9.5"	20	#4	12" C/C MAX
FO-06-115	10	#6	26 FT	9.5"	27	#4	12" C/C MAX
FO-06-115A	10	#6	22 FT	9.5"	23	#4	12" C/C MAX
FO-06-150	10	#6	28 FT	9.5"	29	#4	12" C/C MAX
FO-06-150A	10	#6	24 FT	9.5"	25	#4	12" C/C MAX

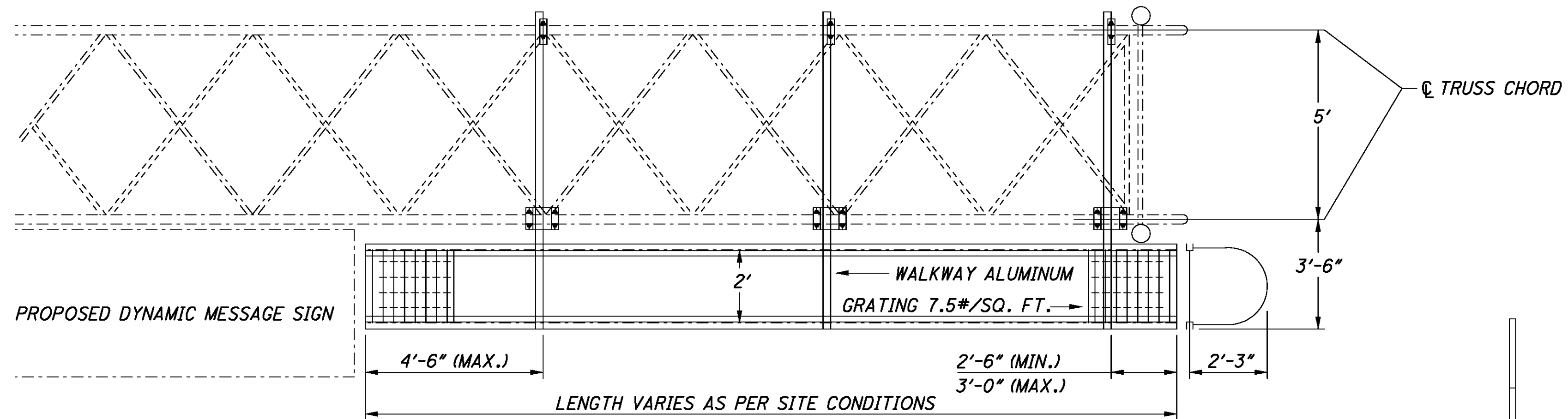
**ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED**

SUPPORT TYPE	TRUSS BOX SIZE	D	D MIN.	ANCHOR BOLTS							
				CIRCLE	DIA.	LENGTH	THREAD LENGTH	P	P THICK	P SIDE	THREADS PER mm
FO-06-80	1.52 m	2.29 m	6.55 m	550	38	1.52 m	229	127	38	102	4.2
FO-06-80A	1.52 m	2.29 m	5.94 m	550	38	1.52 m	229	127	38	102	4.2
FO-06-115	1.52 m	2.29 m	8.08 m	550	38	1.52 m	229	127	38	102	4.2
FO-06-115A	1.52 m	2.29 m	6.86 m	550	38	1.52 m	229	127	38	102	4.2
FO-06-150	1.52 m	2.29 m	8.69 m	550	38	1.52 m	229	127	38	102	4.2
FO-06-150A	1.52 m	2.29 m	7.47 m	550	38	1.52 m	229	127	38	102	4.2

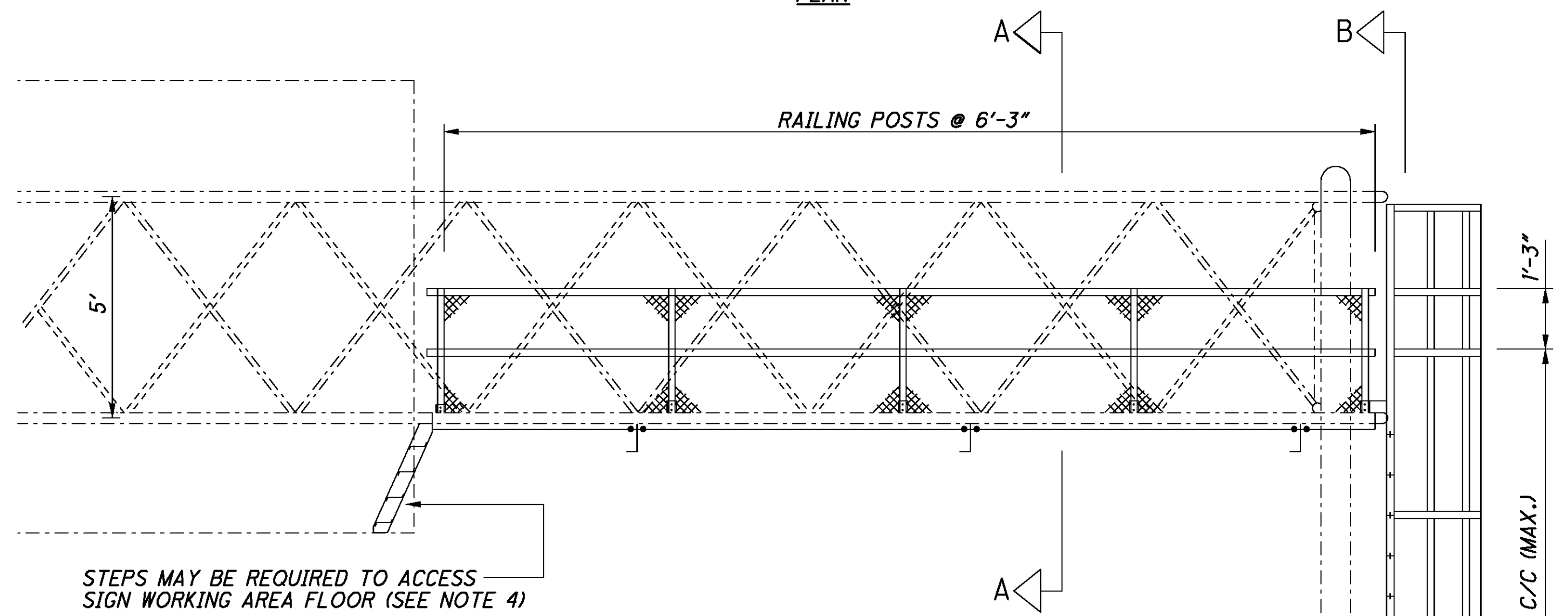
**FOUNDATION REINFORCEMENT SCHEDULE (METRIC)**

SUPPORT TYPE	NUMBER VERTICAL BARS	SIZE VERTICAL BARS	LENGTH VERTICAL BARS	SPACING VERTICAL BARS	# TIES	SIZE TIES	SPACING TIES
FO-06-80	10	#6	6.3 m	20 mm	22	#4	25 mm C/C MAX
FO-06-80A	10	#6	5.7 m	20 mm	20	#4	25 mm C/C MAX
FO-06-115	10	#6	7.8 m	20 mm	27	#4	25 mm C/C MAX
FO-06-115A	10	#6	6.6 m	20 mm	23	#4	25 mm C/C MAX
FO-06-150	10	#6	8.4 m	20 mm	29	#4	25 mm C/C MAX
FO-06-150A	10	#6	7.2 m	20 mm	25	#4	25 mm C/C MAX

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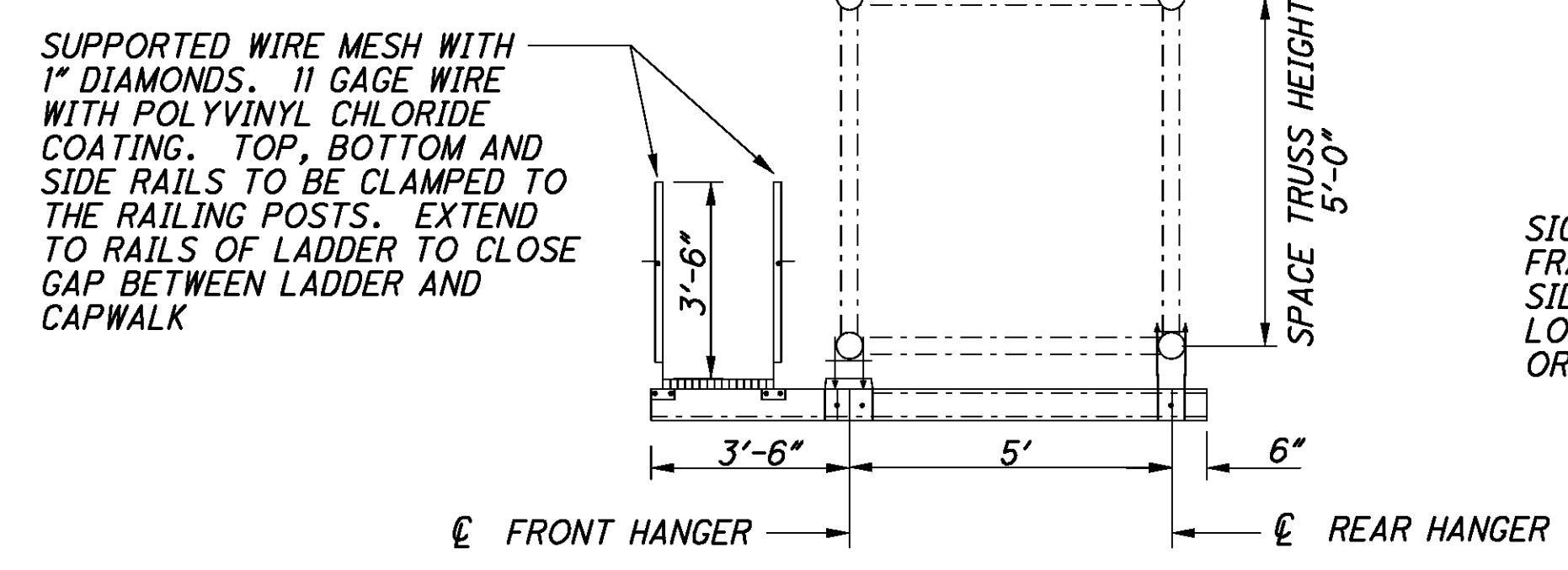


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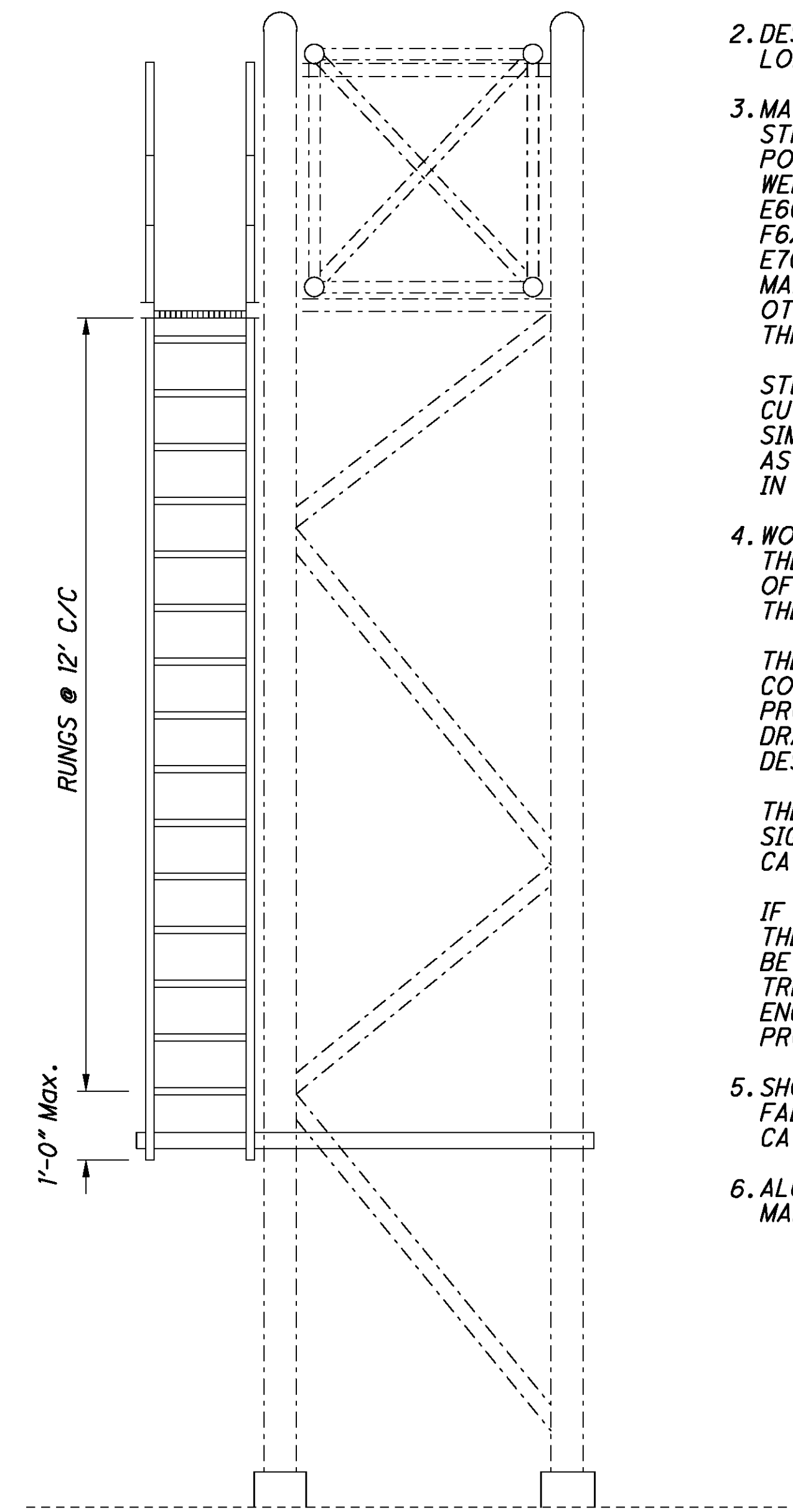


SECTION A-A

(SEE DETAIL OF CATWALK FRAME AND FRAME HANGERS ON SHEET 2)



SIGN SUPPORT END FRAME POLES AT RIGHT SIDE OF ROADWAY LOOKING FORWARD OR REARWARD



SIDE VIEW B-B

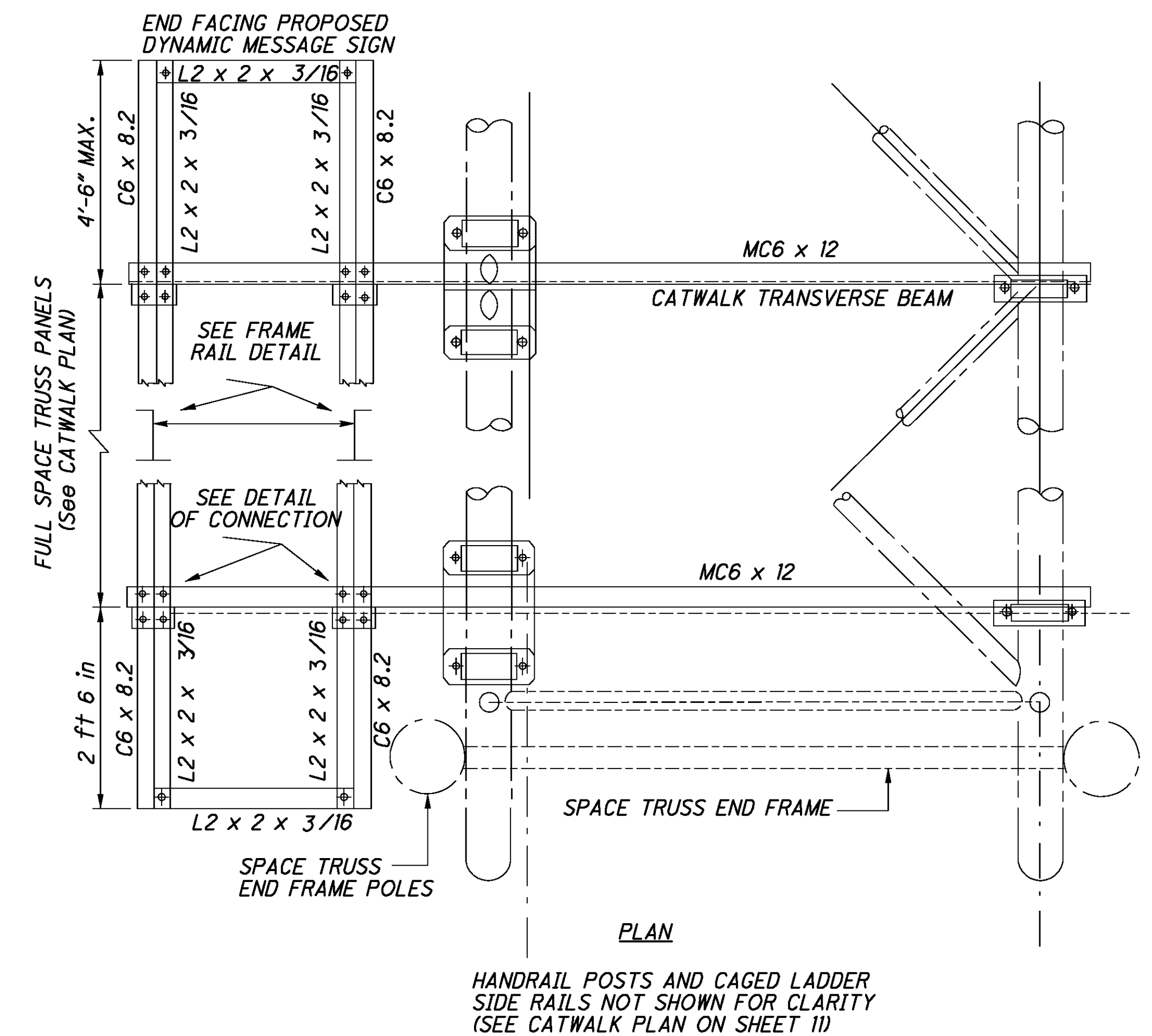
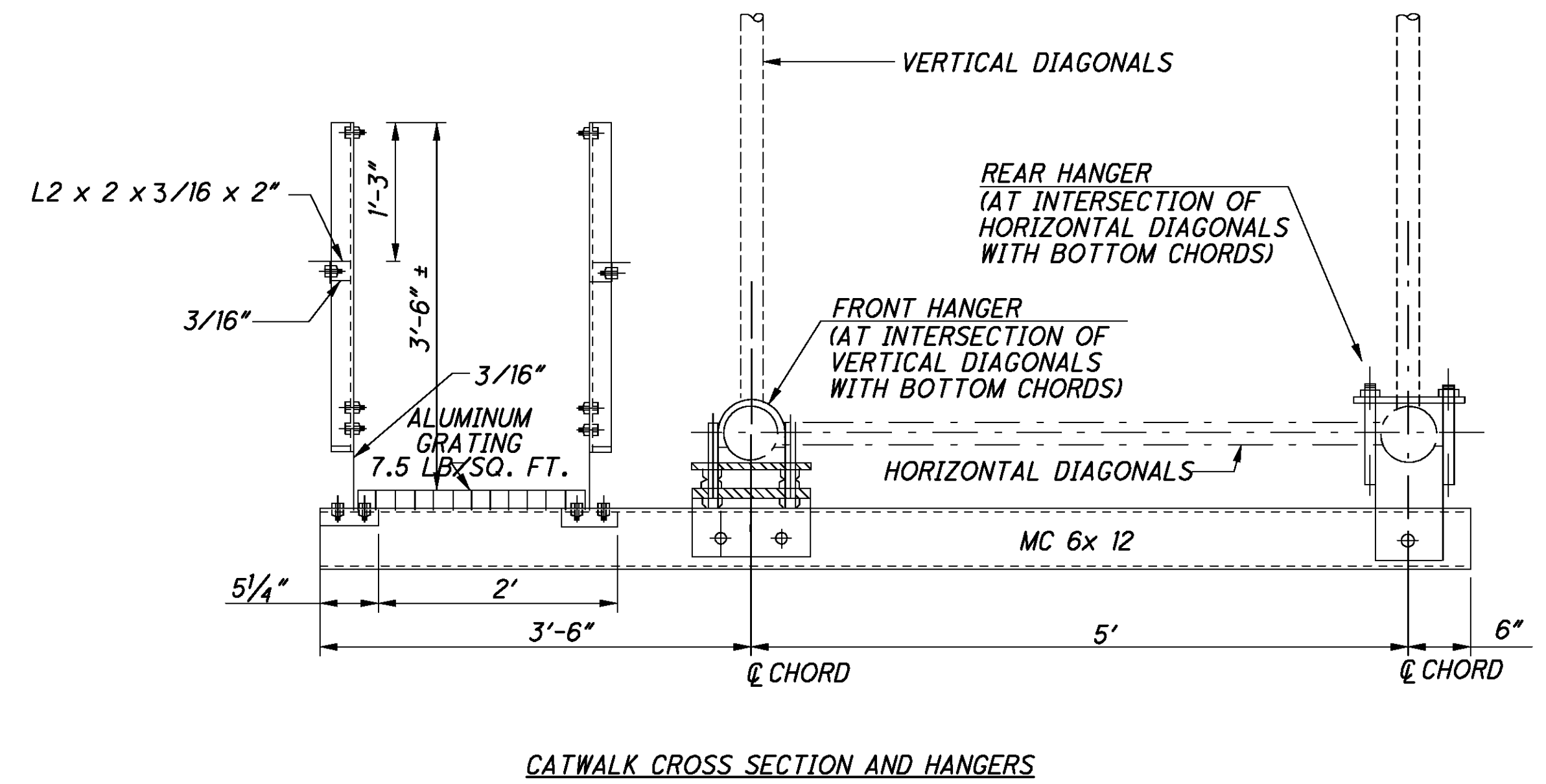
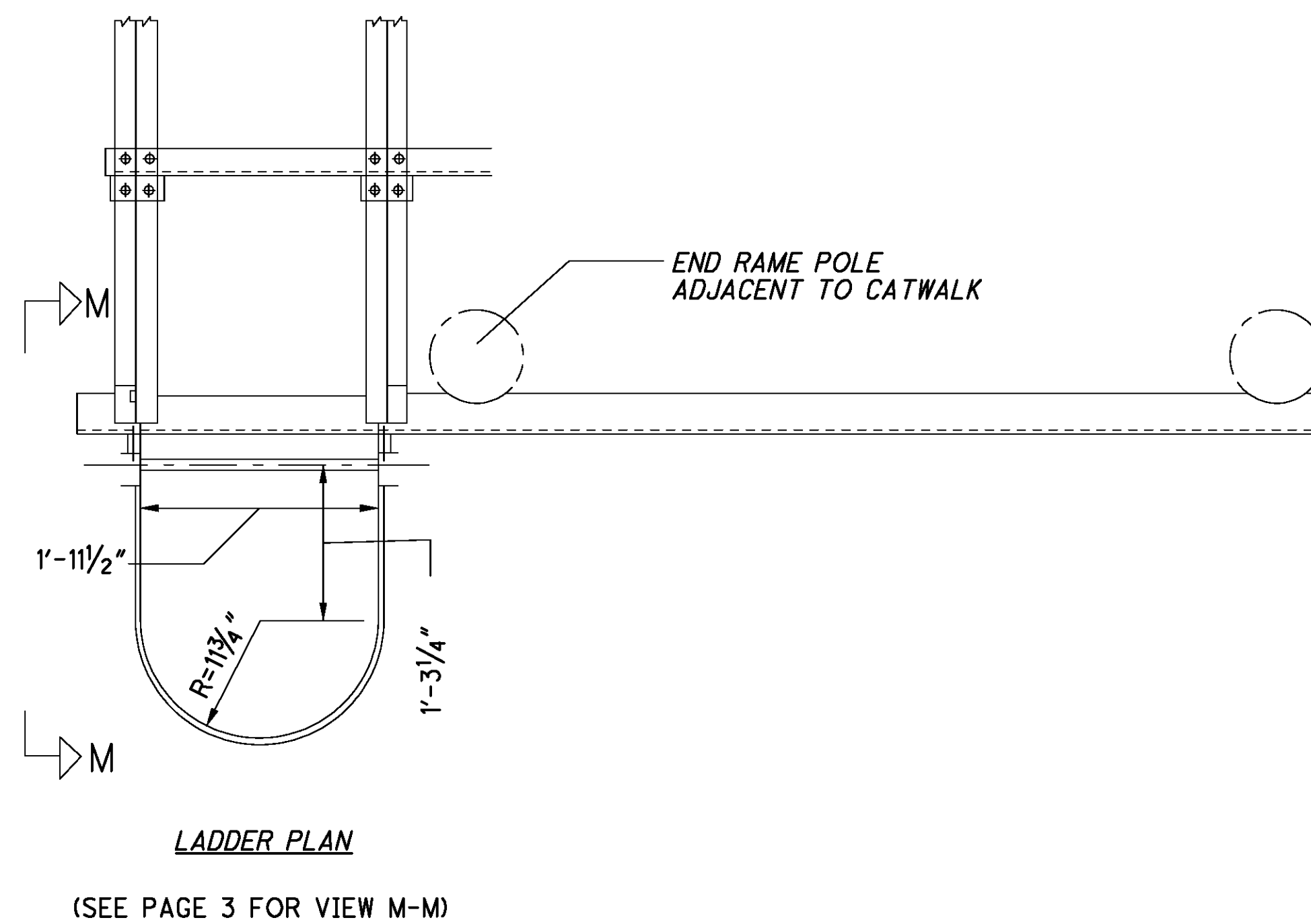
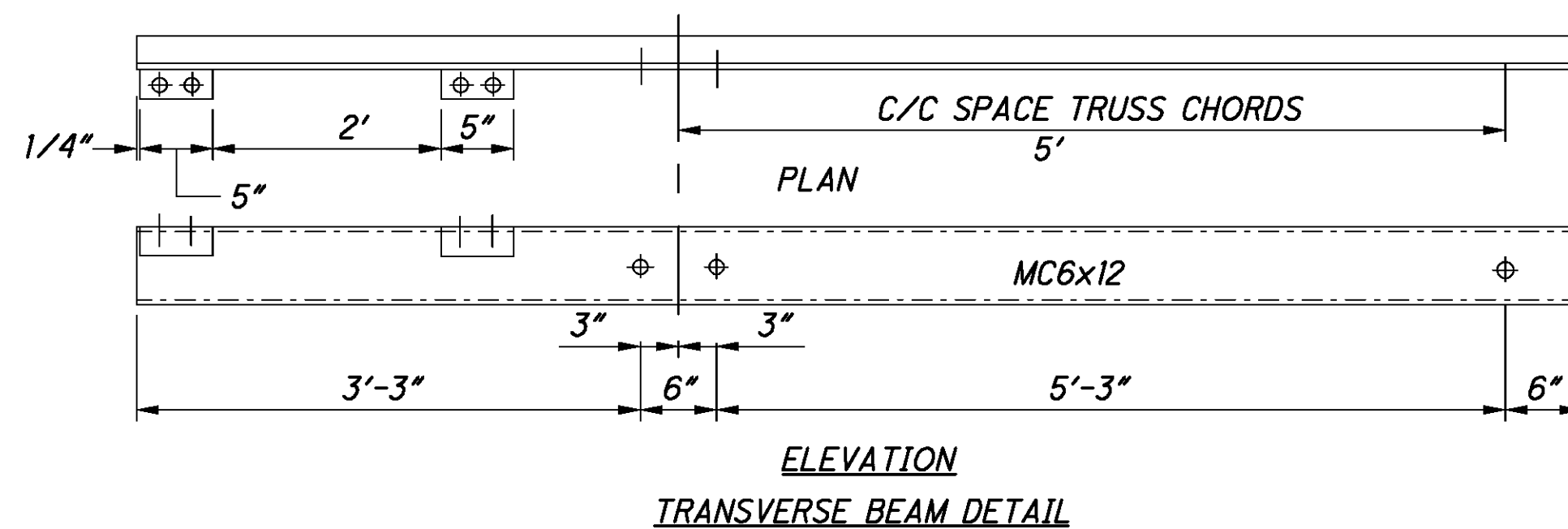
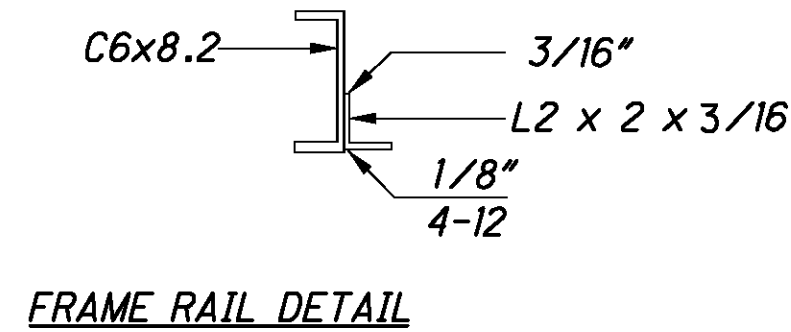
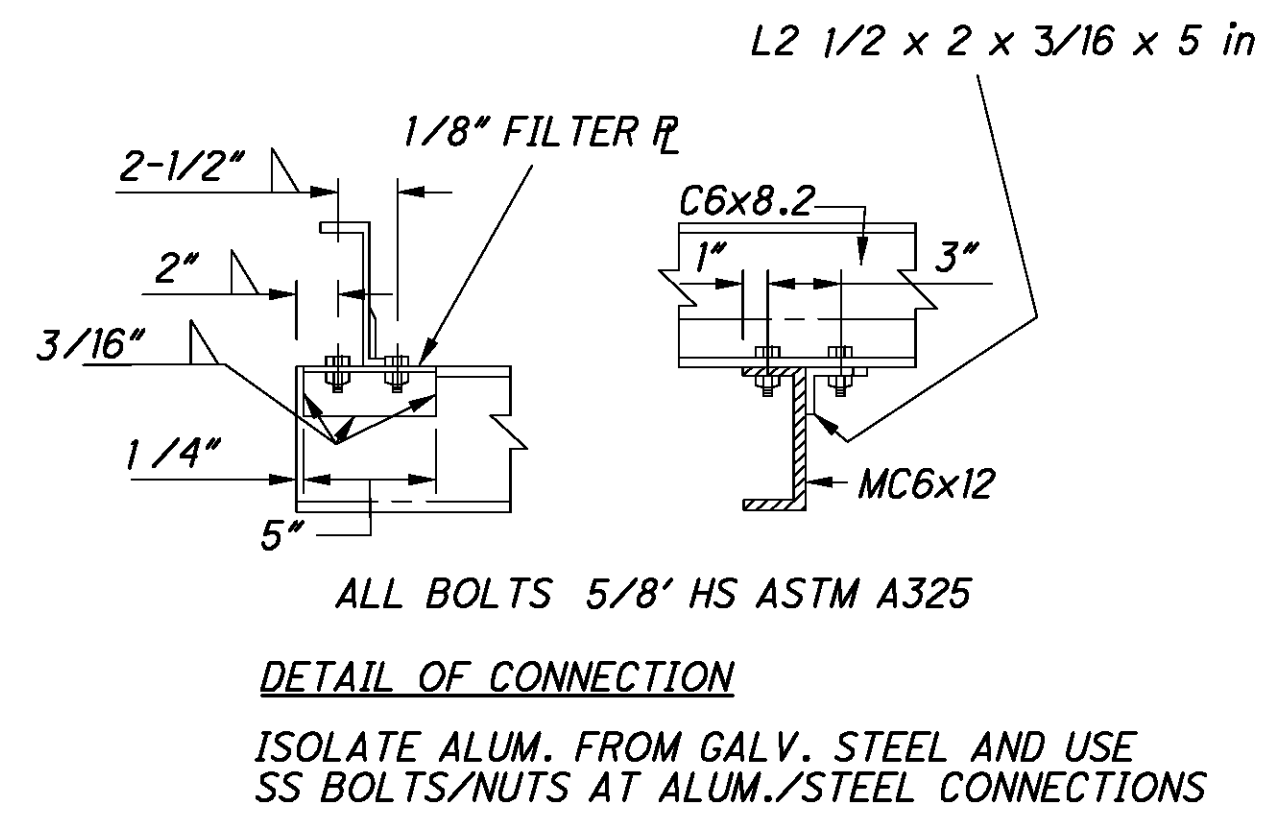
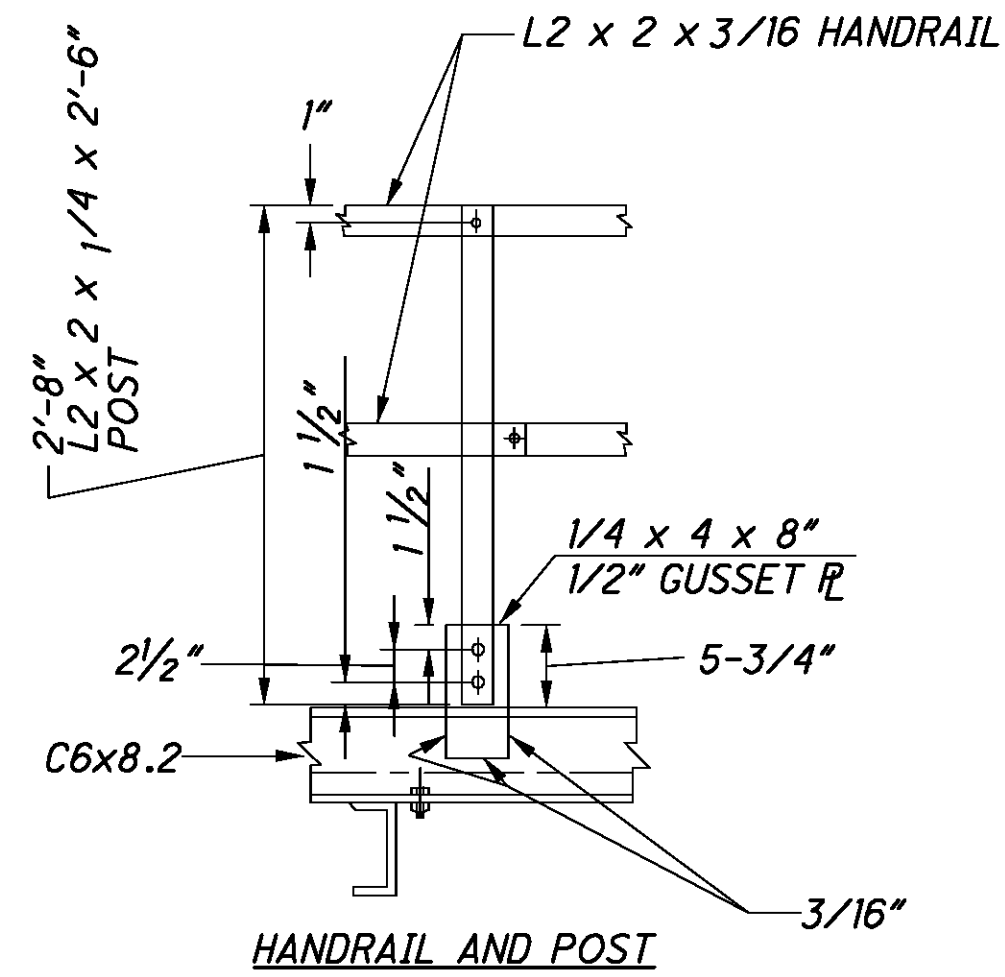
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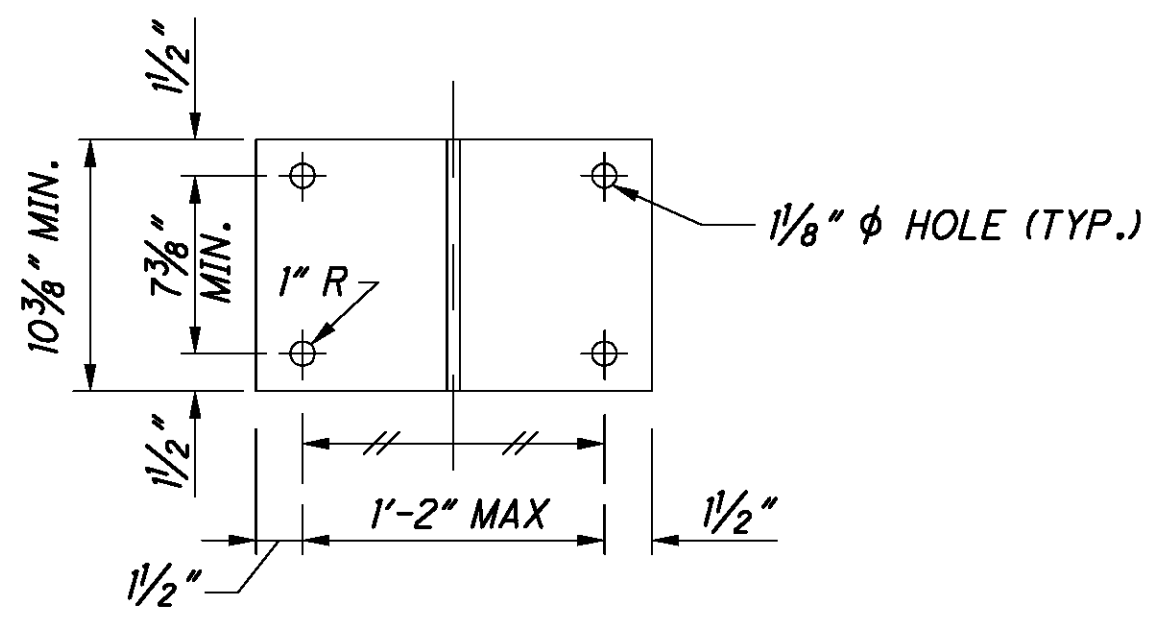
- DESIGN SPECIFICATIONS: THIS CATWALK STRUCTURE CONFORMS TO THE SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL AS ADOPTED BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION LATEST EDITION, AND TO THE STRUCTURAL WELDING CODE OF THE AMERICAN WELDING SOCIETY, LATEST EDITION.
- DESIGN DATA: LOADING: WALKWAY LIVE LOAD=85 POUNDS PER SQUARE FOOT.
- MATERIAL: STRUCTURAL STEEL ASTM A36 MINIMUM YIELD STRENGTH  $F_y=36000$  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 CONNECTION 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.
- 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.  
  
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.
- SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL BEFORE FABRICATION. PAYMENT FOR MATERIALS AND INSTALLATION OF CATWALK AND LADDER IS INCIDENTAL TO SIGN TRUSS.
- ALUMINUM GRATING FOR WALKWAY SHALL BE FASTENED PER MANUFACTURERS RECOMENDATIONS.

CALCULATED  
STS  
CHECKED  
JDG

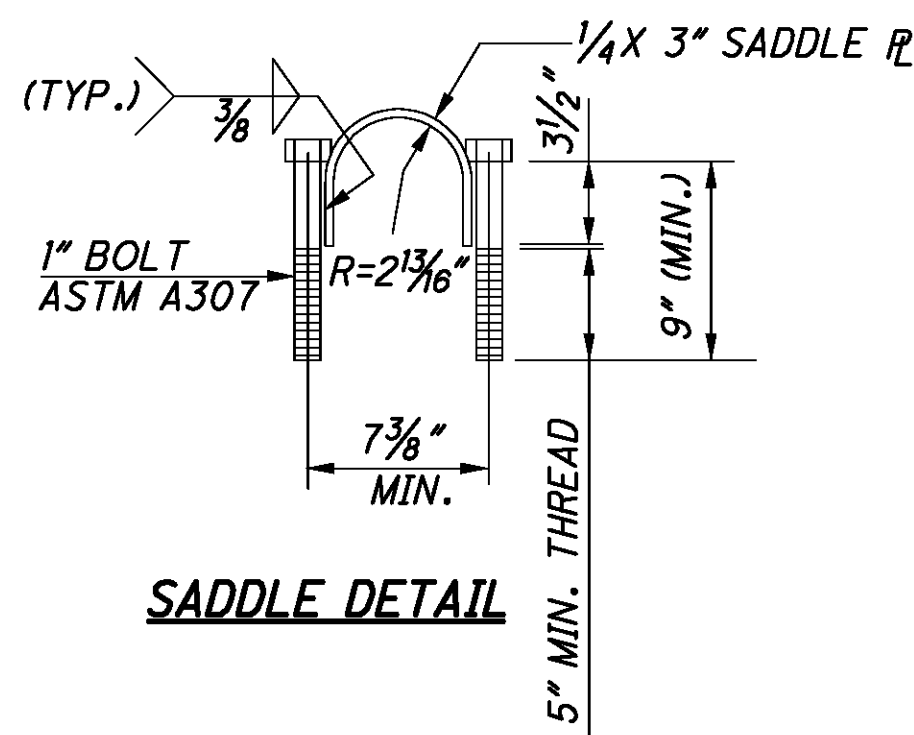
DYNAMIC MESSAGE SIGN TRUSS CATWALK 1 OF 3

STA-SUM ITS

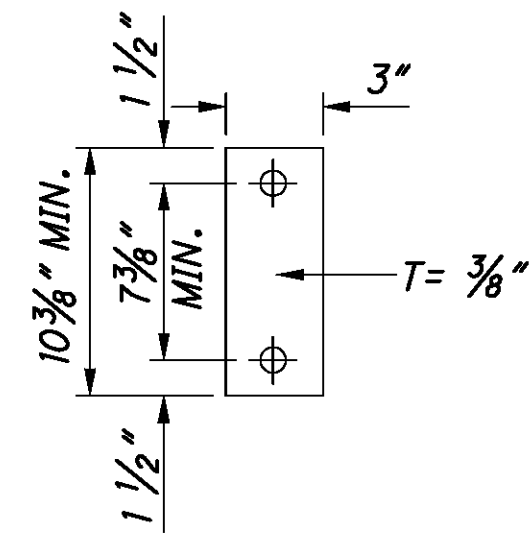




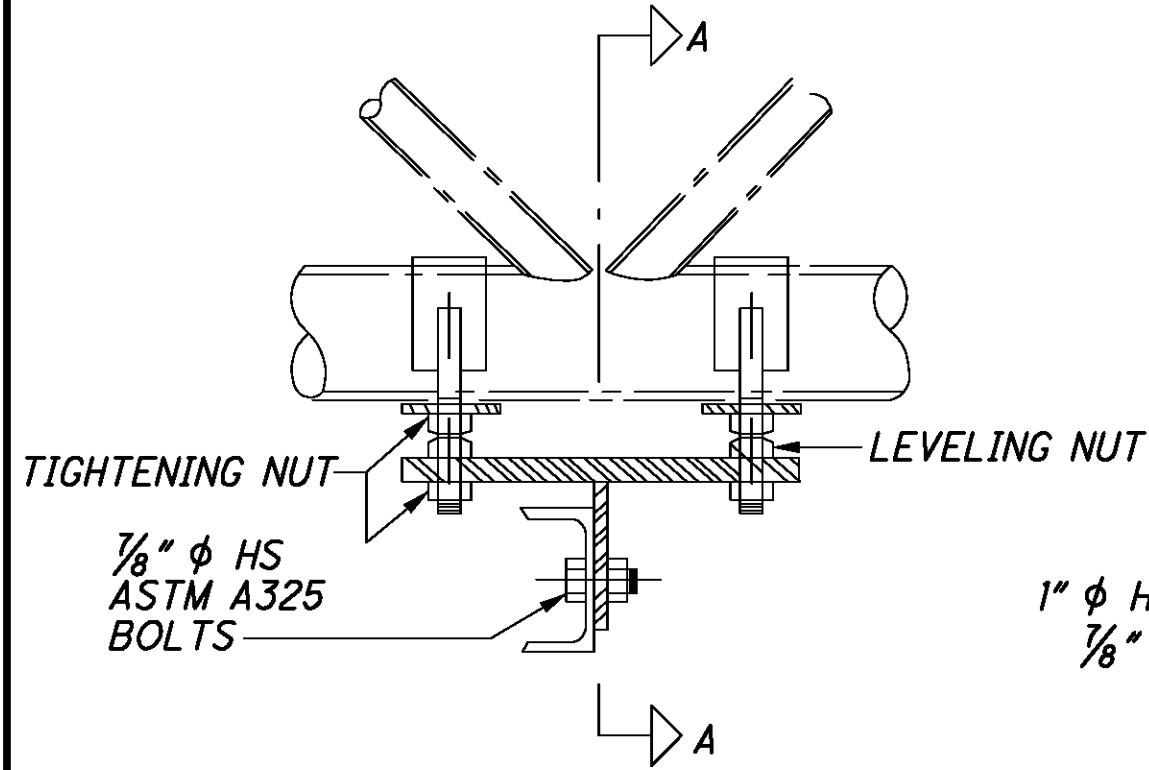
**BEARING PLATE  
(SEE SECTION A-A)**



**SADDLE DETAIL**

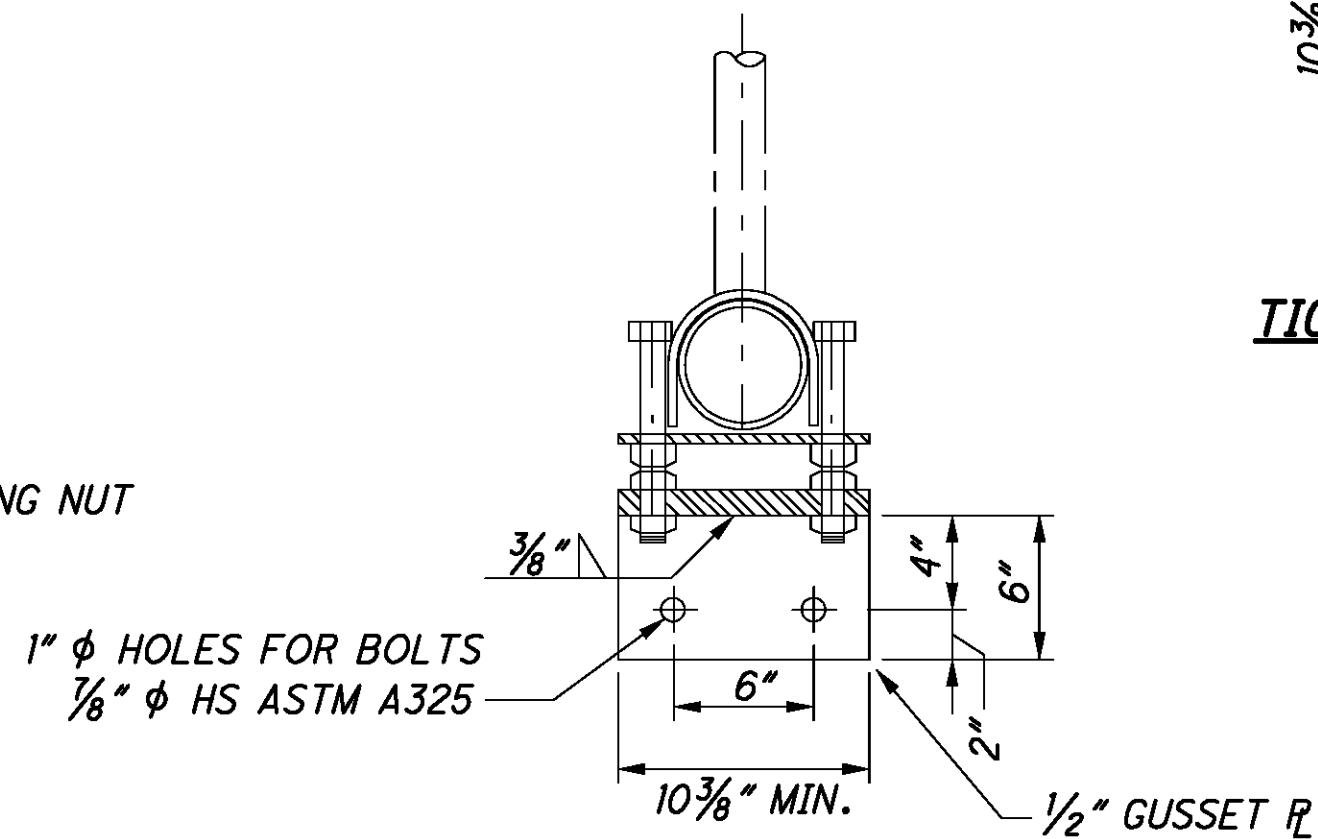


**TIGHTENING PLATE**

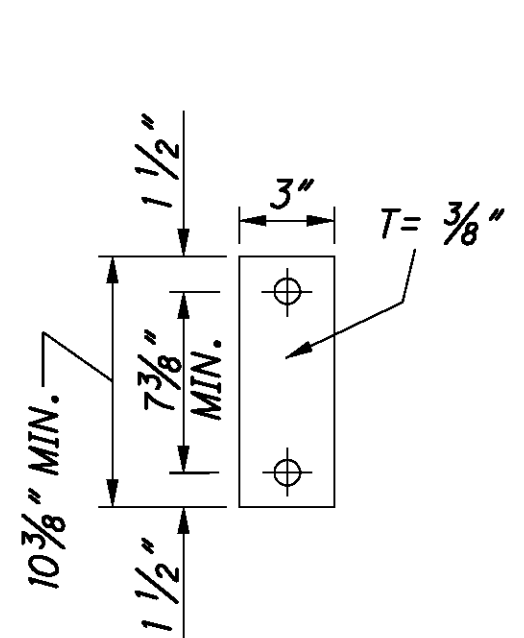


**HANGER ELEVATION**

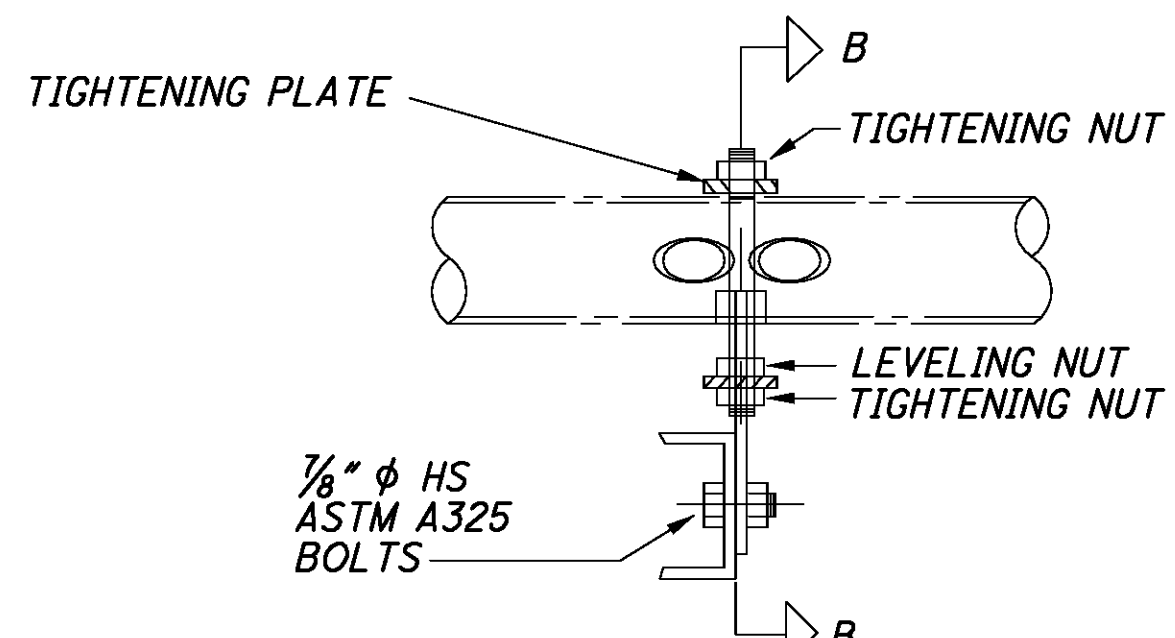
**FRONT HANGER DETAIL**



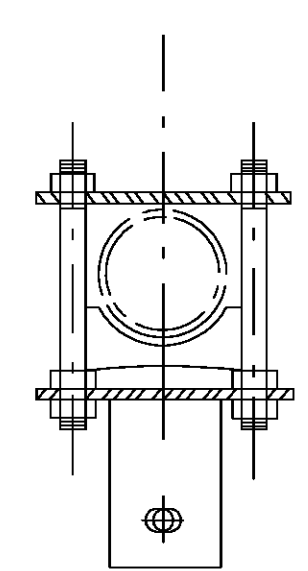
**SECTION A-A**



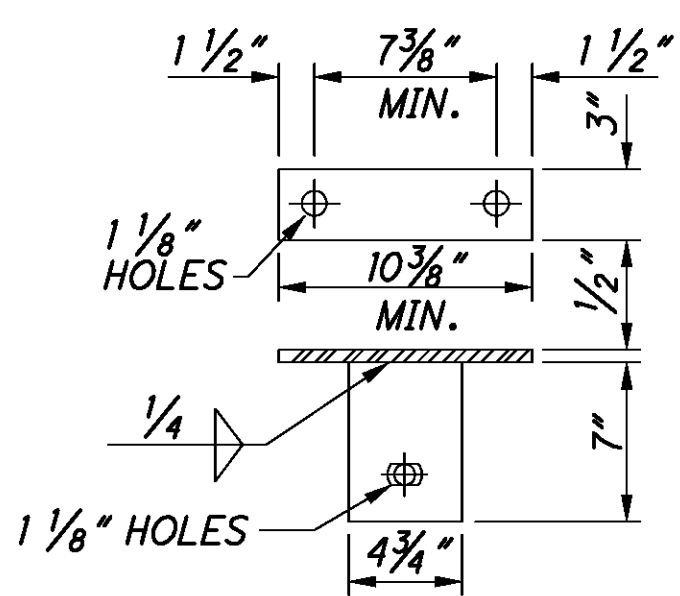
**TIGHTENING PLATE**



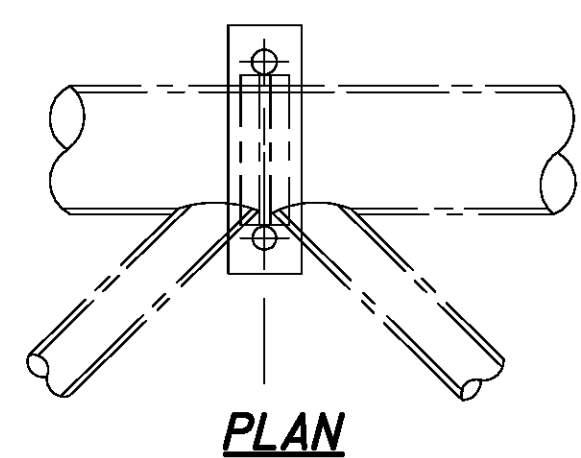
**HANGER ELEVATION**



**SECTION B-B**

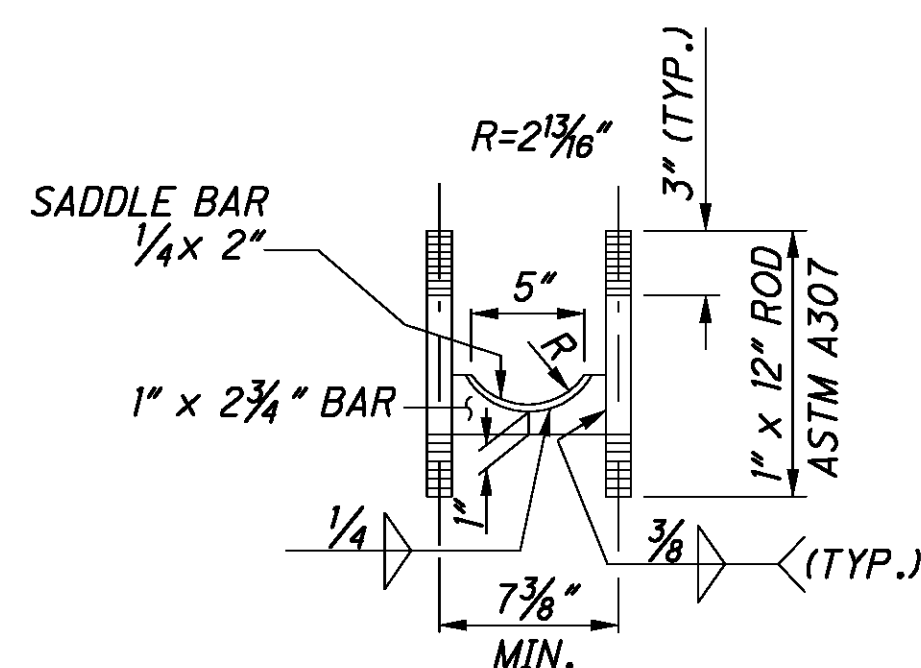


**BEARING PLATE**

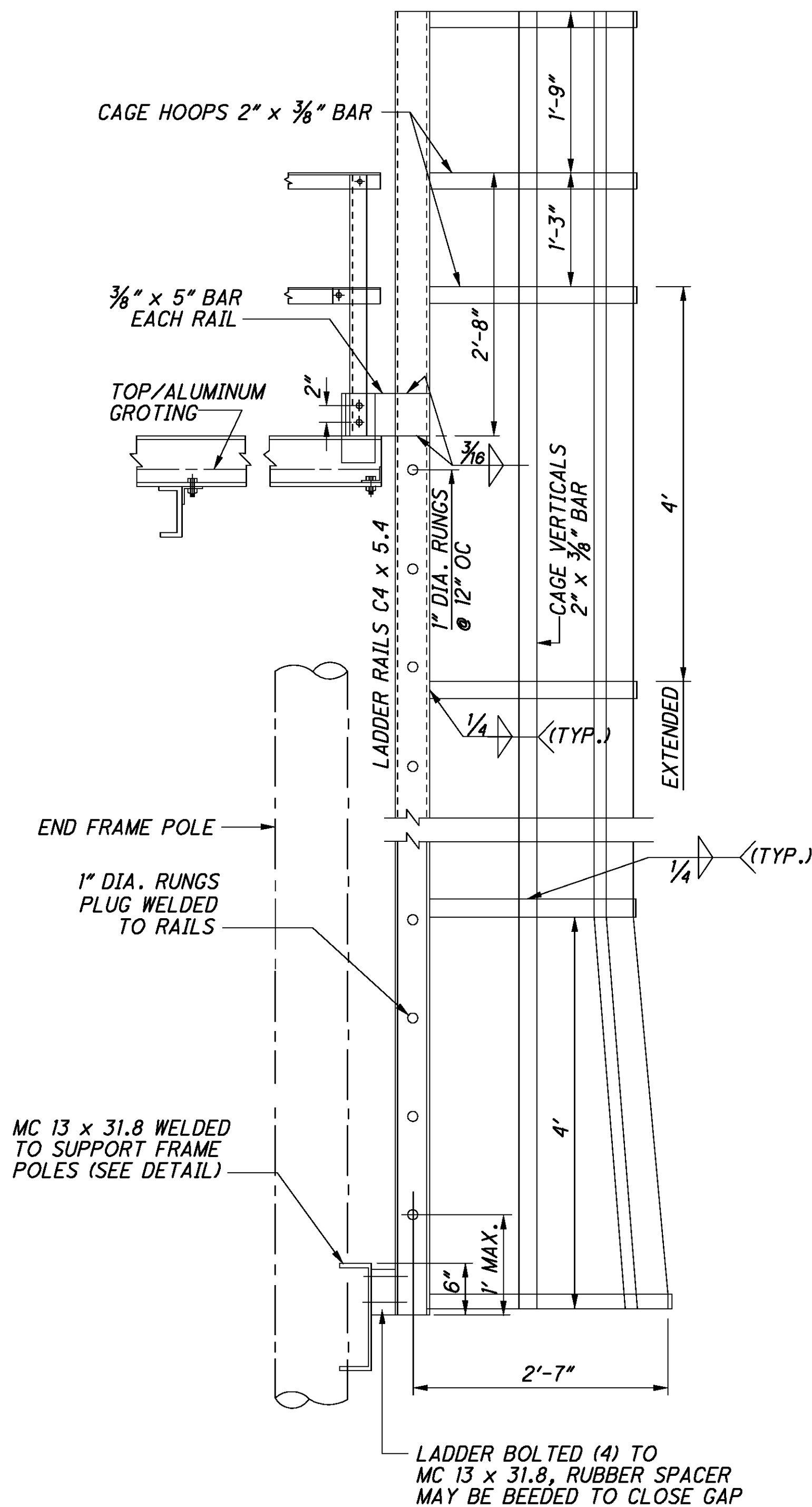


**PLAN**

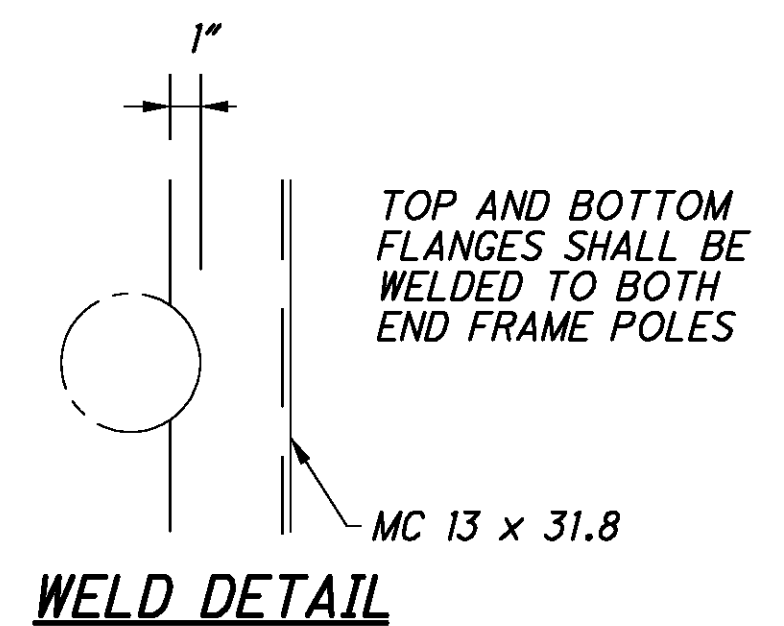
**REAR HANGER DETAIL**



**SADDLE DETAIL**



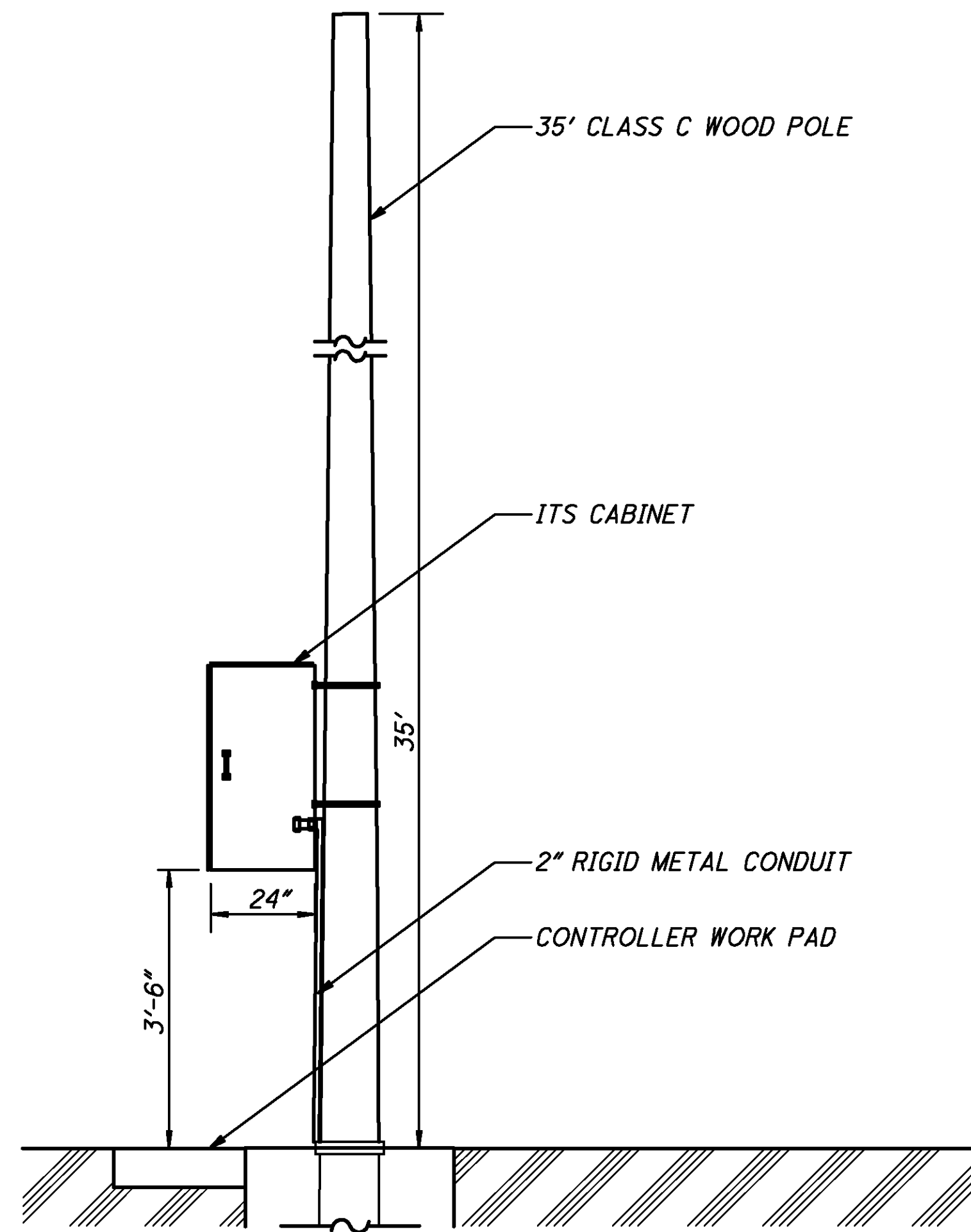
**CAGED LADDER VIEW M-M**



**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" CH (MINIMUM) CHLOROPRENE GASKET OR APPROVED SUBSTITUTE.



**WOOD POLE ASSEMBLY**  
NOT TO SCALE

WOOD POLE ASSEMBLY TO INCLUDE THE FOLLOWING:

- 1 - 35' CLASS C WOOD POLE
- 1 - ITS CABINET
- 1 - SWITCH (3750 OR 2960 AS INDICATED ON THE PLANS)
- 1 - CONTROLLER WORK PAD

ALL ASSOCIATED CONDUIT AND CABLING AT THE SITE NECESSARY FOR THE CONNECTIONS TO PRODUCE A WORKING DEVICE



**GENERAL**

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

**CONDUIT RISER (BY SIZE), AS PER PLAN**

RISERS SHALL BE INSTALLED UNDER THE PROJECT ON METAL POLES, THE WEATHERHEAD SHALL BE REPLACED WITH AN 18" LENGTH OF SHRINK TUBE, SEALING THE TOP OF THE CONDUIT AND THE CABLE. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN CONDUIT RISER, APP.

**CONDUIT MISC.: 2" CONDUIT, T25.04, ATTACHED TO STRUCTURE**

**CONDUIT MISC.: 3", FIBERGLASS REINFORCED, ATTACHED TO STRUCTURE**

CONDUIT SHALL BE INSTALLED UNDERNEATH THE BRIDGE DECK, OR IN THE LOCATIONS SHOWN ON THE PLAN. INSTALLATION PRACTICES SHALL CONFORM TO 625.12. STANDARD CLAMP TYPE CONDUIT HANGERS SHALL BE USED. STRAP HANGERS ARE NOT ACCEPTABLE. ALL HANGERS AND HANGER HARDWARE SHALL BE GALVANIZED. HOLES FOR EXPANSION ANCHORS SHALL BE DRILLED AS PER 510.03 EXPANSION ANCHORS SHALL BE SET WITH EPOXY ADHESIVE. THREAD ADHESIVE SHALL BE USED ON BOTH THE ANCHOR BOLT MACHINE SCREW AND THE CONDUIT CLAMP SCREW AND NUT.

**UTILITY NOTE**

UTILITIES TO BE CONTACTED WITH REGARD TO POSSIBLE CONFLICT WITH WORK HEREIN ARE LISTED BELOW. CONTRACTOR SHALL CONTACT THE OHIO UTILITIES PROTECTION SERVICE (OUPS) AND ANY NON-MEMBERS OF OUPS AT LEAST TWO WORKING DAYS BEFORE DIGGING. 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.

AAG CABLE TV  
3245 ORADELL LANE  
DALLAS, TX 75220  
KEVIN SCHOTTEHLANDER  
OFFICE 972-664-1414  
FAX 972-664-1335

CITY OF BARBERTON  
576 W. PARK AVE.  
BARBERTON, OH 44203  
JAMES BECKETT  
OFFICE 330-848-6724  
FAX 330-848-6654

CITY OF CUYAHOGA FALLS  
ELECTRIC DEPARTMENT  
2550 BAILEY ROAD  
CUYAHOGA FALLS, OH 44221  
BOB BYE  
OFFICE 330-971-8060  
FAX 330-971-8040

MASSILLON CABLE  
P.O. BOX 814  
MASSILLON, OH 44648  
NEAL TRAVIS  
OFFICE 330-833-4134  
FAX 330-833-7522

MCI  
120 RAVINE STREET  
AKRON, OH 44303  
AL GUEST  
OFFICE 330-253-8267  
FAX 918-562-7014

CITY OF MEDINA  
ENGINEERING DEPT.  
120 NORTH ELMWOOD ST.  
MEDINA, OH 44256  
PAT PATTON  
OFFICE 330-725-8861  
FAX 330-722-9045

MOORE WELL SERVICE  
P.O. BOX 1399  
837 ALLEN RD.  
STOW, OH 44224  
BOB MOORE  
OFFICE 330-650-4443  
FAX 330-650-0105

CITY OF NORTH CANTON WATER  
145 N. MAIN STREET  
NORTH CANTON, OH 44720  
JAMES BENEKOS  
OFFICE 330-499-3465  
FAX 330-499-6036

NORTH COAST GAS TRANSMISSION  
250 EAST BROAD STREET  
SUITE1220  
COLUMBUS, OH 43215  
WILLIAM CAGLE  
OFFICE 419-660-0432

NORTHEAST OHIO NATURAL GAS  
9081 ST. RT. 250  
STRASBURG, OH 44680  
CHAD WALLACE  
OFFICE 800-848-5589  
FAX 330-878-5614

ODOT DISTRICT 4  
2088 S. ARLINGTON RD.  
AKRON, OH 44306  
KEN GREENE  
330-786-3145

OHIO EDISON  
1910 W. MARKET ST. BLDG. 1  
AKRON, OH 44313  
KEN DOWNS  
OFFICE 330-384-4839  
FAX 330-384-4723

PEP DRILLING CO.  
2120 BRENTWOOD DRIVE  
AKRON, OH 44333  
BROOKS YARBROUGH  
OFFICE 330-697-4090  
FAX 330-666-7550

PORTAGE COUNTY  
WATER RESOURCES  
449 S. MERIDIAN ST.  
RAVENNA, OH 44266  
LOUIE MUNOZ  
PHONE 330-297-3670  
FAX 330-297-3680

QWEST COMMUNICATIONS  
6155 ROCKSIDE RD.  
SUITE 303  
INDEPENDENCE, OH 44131  
SCOTT SIMCOX  
OFFICE 216-573-5794  
FAX 216-573-5792

ROOTSTOWN WATER SERVICE COMPANY  
PO BOX 94  
4332 TALLMADGE ROAD  
ROOTSTOWN, OH 44272  
KEN BOYDELL  
OFFICE 330-325-7556  
FAX 330-325-7758

EMBARO  
3801 ELM ROAD  
WARREN, OHIO 44483  
STEPHANIE HERRON  
OFFICE 330-841-1377

STARK COUNTY  
METROPOLITAN SEWER DISTRICT  
1701 MAHONING RD. N. E.  
P.O. BOX 7906  
CANTON, OH 44705-7906  
JIM JONES  
OFFICE 330-451-2314  
FAX 330-453-9044

CITY OF STOW  
WATER DEPARTMENT  
3760 DARROW ROAD  
STOW, OH 44224  
GERRY DOLSON  
OFFICE 330-689-2700  
FAX 330-689-2705

SUMMIT COUNTY  
DEPT. OF ENVIRONMENTAL SERVICES  
2525 STATE ROAD  
CUYAHOGA FALLS, OH 44223  
GINO MORELL  
OFFICE 330-926-2493  
FAX 330-926-2531

SUNOCO PIPELINE LP  
525 FRITZTOWN RD.  
SINKING SPRING, PA 19608  
JOMARIE JENKINS  
OFFICE 610-670-3256  
FAX 610-670-3261

CITY OF TALLMADGE  
WATER DEPARTMENT  
210 OSCEOLA AVE  
TALLMADGE, OH 44278  
TOM MITAN  
OFFICE 330-633-0851

TIME WARNER CABLE  
530 SOUTH MAIN STREET  
SUITE 1741  
AKRON, OH 44311  
TOD DEAN  
OFFICE 330-490-2506  
FAX 330-633-2342

VERIZON  
6223 NORWALK RD.  
MEDINA, OH 44256  
TONY MCAFFEE  
OFFICE 330-722-9580  
FAX 330-722-1596

VILLAGE OF CRESTON  
P.O. BOX 194  
CRESTON, OH 44217  
ROGER UHLER  
OFFICE 330-435-4425

VILLAGE OF RICHFIELD SEWER AND WATER  
4410 WEST STREETSBORO ROAD  
RICHFIELD, OHIO 44286  
MELANIE TIBBS  
PHONE 330-659-9201 EXT: 5  
FAX 330-659-6935

CITY OF WADSWORTH  
120 MAPLE STREET  
WADSWORTH, OH 44281  
THOMAS TUCKER  
OFFICE 330-335-2737

WESTERN RESERVE  
245 NORTH MAIN STREET  
HUDSON, OH 44236  
DICK KREJCI  
OFFICE 330-656-8519  
FAX 330-656-2929

WILTEL COMMUNICATIONS  
100 SOUTH CINCINNATI AVE.  
TULSA, OKLAHOMA 74103  
LINDA ROGERS  
OFFICE 918-547-9919  
FAX 918-547-8018

WINDSTREAM  
100 OWEN BROWN RD.  
HUDSON, OH 44236  
JEFF GULYAS  
OFFICE 330-650-8404  
FAX 330-656-2929

X O COMMUNICATIONS  
2 EASTON OVAL  
COLUMBUS, OH 43219  
ANDY PLUMMER  
OFFICE 614-416-1170

CITY OF GREEN  
5383 MASSILLON ROAD  
P.O. BOX 278  
GREEN, OH 44232  
JOHN WALCH  
OFFICE 330-896-5510  
FAX 330-896-6606

**F/O NOTES:**

CONTRACTOR SHALL LEAVE 25' OF FIBER OPTIC CABLE SLACK COILED IN ALL 32" DIA. PULL BOXES.

CONTRACTOR SHALL LEAVE 50' OF 144 STRAND FIBER OPTIC CABLE SLACK AT EACH SPLICE ASSEMBLY LOCATION, AS INDICATED IN THE PLANS

QUANTITIES FOR FIBER OPTIC CABLES HAVE BEEN CALCULATED TO ACCOUNT FOR THIS SLACK.

**CONSTRUCTION INITIATION**

THE CONTRACTOR SHALL ADVISE THE DISTRICT PUBLIC INFORMATION OFFICER AT 330-786-2209 (PATRICIA.KENNARD@DOT.STATE.OH.US), WORK ZONE TRAFFIC MANAGER AT 330-786-4817 (LISA.BOSE@DOT.STATE.OH.US), AND TRAFFIC ENGINEER 330-786-3145 (KEN.GREENE@DOT.STATE.OH.US) FOURTEEN (14) DAYS PRIOR TO THE START OF CONSTRUCTION ACTIVITIES. THE CONTRACTOR WILL IMMEDIATELY INFORM THE DISTRICT OFFICE OF COMMUNICATIONS AND THE PROJECT ENGINEER 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.

**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	ESTIMATED START DATE
78679	SUM SR 0021 05.14	12/7/2007
76387	SUM SR 0021 00.09	12/20/2007
80989	SUM SR 0008 01.75	1/17/2008
78119	SUM SR 0008 09.10	2/21/2008
77037	MED IR 0076 00.69	3/13/2008
25536	STA US 0062 22.42	3/13/2008
77078	SUM SR 0008 01.95	3/13/2008
83373	STA IR 0077 NOISE WALLS	7/1/2008
81528	SUM SR 0008 07.60	7/17/2008
80560	STA/SUM IR 0077 17.63/00.40	10/1/2008
76347	SUM SR 0008 04.30	10/1/2008
11661	SUM SR 0008 10.66	10/1/2008
24507	SUM SR 0008 13.30	10/1/2008
82597	SUM IR 0271 03.54	7/11/2007
81150	SUM IR 0271 07.56 SLOPE	7/1/2009
81149	SUM IR 0271 09.30 SLOPE	7/1/2009
82433	SUM IR 0271 06.90	5/29/2008
29277	SUM IR 0077 31.88	10/1/2008

**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, CLEARING AND GRUBBING. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM, CLEARING AND GRUBBING.

MANY LOCATIONS FOR CLEARING AND GRUBBING HAVE BEEN LOCATED ON THE PLANS. THESE LOCATIONS ARE NOT INTENDED TO IDENTIFY ALL POTENTIAL AREAS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT EACH LOCATION AND IDENTIFY THE WORK REQUIRED IN CONJUNCTION WITH THE ENGINEER.

**FOUNDATIONS FOR SUPPORTS**

DUE TO THE POSSIBILITY OF CONFLICT WITH EXISTING OR UNDERGROUND OBSTRUCTIONS (INCLUDING THE POSSIBILITY OF UNRECORDED OBSTRUCTIONS) WHICH COULD AFFECT THE LOCATION OF THE FOUNDATIONS FOR THESE ITEMS, AND CONSEQUENTLY, THE DESIGN OF THE VARIOUS SUPPORTS, AND/OR ARMS, THE CONTRACTOR SHALL NOT PLACE FINAL ORDERS FOR THESE ITEMS UNTIL THE FOUNDATIONS HAVE BEEN INSTALLED, AND HE HAS RECEIVED, FROM THE ENGINEER, WRITTEN NOTICE TO PROCEED WITH THE ORDERS FOR THESE ITEMS.

IF ANY FOUNDATION 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 THE MAINTAINING AGENCY. 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 ARE INSTALLED AT THE EARLIEST TIME AS IS FEASIBLE AND PRACTICAL, AND SHALL INCLUDE SUFFICIENT TIME FOR THE ORDERING, MANUFACTURE, DELIVERY, AND INSTALLATION OF THESE ITEMS AFTER THE FOUNDATIONS ARE IN PLACE.

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

**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 202E42207, ANCHOR ASSEMBLY REMOVED, AS PER PLAN**

WHEN IT IS NECESSARY TO REMOVE TYPE E-98 GUARDRAIL CONTRACTOR SHALL ONLY REMOVE THE LAST SECTION (12.5') OF TYPE E-98 GUARDRAIL. THE REMAINING 37.5' OF TYPE E GUARDRAIL SHALL BE REUSED AS TYPE 5 GUARDRAIL AND SPLICED TO PROPOSED GUARDRAIL. THE PAY ITEM SHALL ONLY INCLUDE REMOVAL OF FINAL SECTION (12.5') OF TYPE E-98 GUARDRAIL.

**ANCHOR ASSEMBLY, TYPE E-98**

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING EITHER OF THE FOLLOWING GUARDRAIL END TERMINALS.

- 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", INCLUSIVE OF TWO 25'-0" 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
SS265M	ET-2000 (1997) PLAN, ELEVATION AND SECTIONS	6/20/97	3/6/98
SS142	ET2000 PLUS 50'-0" PLAN, ELEVATION AND SECTION 25'-0" RAIL, SLEEVE W/PL POSTS 1-4	4/12/00	7/31/00
SS141	ET2000 PLUS PLAN, ELEVATION AND SECTION 25'-0" RAIL, HBA POSTS 1-4	2/29/00	7/31/00
SS158	ET2000 PLUS 50'-0" WITH 12'-6" PANELS AND HBA POSTS 1-4 PLAN, ELEVATION AND SECTION	5/22/00	7/31/00

- 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", INCLUSIVE OF FOUR 12'-6" 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

THE FACE OF THE TYPE E-98 IMPACT HEAD SHALL BE COVERED WITH A SHEET OF TYPE G REFLECTIVE SHEETING, PER CMS 730.19, APPROXIMATELY 18" X 18".

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 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 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 ABOVE THE GROUND LINE.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 606, ANCHOR ASSEMBLY, TYPE E-98, 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.

**SURVEY NOTE**

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

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

**CONCRETE MEDIAN BARRIER REPLACEMENT**

REMOVING, GRADING AND INSTALLING THE REPLACEMENT BARRIER IN A CONTINUOUS OPERATION SHALL BE LIMITED TO 10 FEET AND SHALL AT ALL TIMES BE SUBJECT TO THE APPROVAL OF THE ENGINEER. THE ENGINEER SHALL BE SATISFIED THAT ALL INSTALLATIONS WILL AFFORD MAXIMUM PROTECTION FOR TRAFFIC.

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

ITEM 625E31600, PULL BOX, MISC.: 725.08, 48"

ALL PULL BOX LIDS SHALL BE FABRICATED WITH RAISED LETTERS "TTS TRAFFIC".

**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 ON UNIFORM TRAFFIC CONTROL DEVICE 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 BACK FILLED 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 ENGINEER.

A MAINTENANCE OF TRAFFIC CONTROL PLAN (MTC) INCLUDING PEDESTRIAN CONTROL SHALL BE SUBMITTED TO THE ODOT DISTRICT 4 MAINTENANCE OF TRAFFIC ENGINEER AT THE PRE-CONSTRUCTION MEETING OR A MINIMUM OF TEN (10) WORKING DAYS PRIOR TO BEGINNING WORK. COPIES OF THE APPROVED MTC SHALL BE GIVEN TO THE ENGINEER AND KEPT ON THE PROJECT SITE ALONG WITH THE ODOT OCCUPANCY PERMIT.

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.

**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 3 OR DISTRICT 4 PERMITTED LANE CLOSURE TIMES" LIST, WHICH IS LOCATED ON THE DISTRICT 4 WEBSITE: WWW.DOT.STATE.OH.US/DIST4/CONSTRUCTIONUPDATES/CONSTRUCTIONUPDATES.HTM CLOSURE TIMES FOR DISTRICT 4 WILL ONLY BE ALLOWED BY THE CLOSURE TIMES ON THE ABOVE WEBSITE AND NOT ON ANY OTHER DISTRICT'S WEBSITE. THE OTHER DISTRICT'S LANE CLOSURE LISTS CAN BE FOUND AT: HTTPS://DOTA1000.DOT.STATE.OH.US/PLCM/PLCMLOADACTION.DO 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 3 OR 4 PERMITTED LANE CLOSURE TIMES" SHALL NOT HAVE ANY CLOSURES WEEKDAYS FROM 7AM-9AM AND 3PM-6PM. 3 LANE CLOSURES ARE PERMITTED ON ANY 4 OR 5 LANE FREEWAY FROM 1AM TO 5AM MONDAY THRU FRIDAY MORNING.

ITEM 614, MAINTAINING TRAFFIC (LANES OPEN DURING HOLIDAYS OR SPECIAL EVENTS) NO WORK SHALL BE PERFORMED AND ALL EXISTING LANES SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS OR EVENTS:

CHRISTMAS FOURTH OF JULY  
NEW YEARS LABOR DAY  
MEMORIAL DAY THANKSGIVING  
(OTHER HOLIDAY OR EVENT)

THE PERIOD OF TIME THAT THE LANES ARE TO BE OPEN DEPENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY OR EVENT FALLS. THE FOLLOWING SCHEDULE SHALL BE USED TO DETERMINE THIS PERIOD:

DAY OF THE WEEK TIME ALL LANES MUST BE OPEN TO TRAFFIC  
SUNDAY 12:00N FRIDAY THROUGH (12:00N OR 6:00 AM) MONDAY  
MONDAY 12:00N FRIDAY THROUGH (12:00N OR 6:00 AM) TUESDAY  
TUESDAY 12:00N MONDAY THROUGH (12:00N OR 6:00 AM) WEDNESDAY  
WEDNESDAY 12:00N TUESDAY THROUGH (12:00N OR 6:00 AM) THURSDAY  
THURSDAY 12:00N WEDNESDAY THROUGH (12:00N OR 6:00 AM) MONDAY  
FRIDAY 12:00N THURSDAY THROUGH (12:00N OR 6:00 AM) MONDAY  
SATURDAY 12:00N FRIDAY THROUGH (12:00N OR 6:00 AM) MONDAY

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.

**ENTRANCE RAMP CLOSURE**

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 DEVELOPES.

THE RAMPS SHALL BE CLOSED IN ACCORDANCE WITH THE FIGURE TITLED "RAMPS AND STREETS CLOSURE DETAIL" EXCEPT THAT 42-INCH (GRABBER OR EQUAL) CONES MAY BE SUBSTITUTED FOR DRUMS IN TANGENT SECTIONS ONLY AT NIGHT IF THEY ARE EQUIPPED WITH A FOUR 6-INCH REFLECTORIZED STRIPED BANDS AND SPACED PER ODOT STANDARDS.

**LANE CLOSURES**

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 PANEL.
- C. ALL ADVANCED LEAD-IN SIGNS SHALL BE 48" X 48" AN INCLUDE TWO (2) 24" RED FLAGS AND FLASHING TYPE A LIGHTS.
- D. A FLASHING ARROW PANEL (48" X 96") 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 G 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 GORE, MT-98.13 OR MT-98.14 SHALL APPLY, SUBJECT TO THE FOLLOWING CONDITIONS:

WHERE TWO LANES ARE CLOSED, THE MINIMUM EXIT TAPER SHALL BE 625 FEET AND THE MINIMUM OPENING SHALL BE 10000 FEET. IF THIS IS NOT OBTAINABLE, THE EXIT RAMP SHALL BE CLOSED.

AN EXIT RAMP MAY BE CLOSED BY THE ENGINEER IF, IN HIS/HER OPINION, ALLOWING TRAFFIC TO USE THE RAMP IS UNSAFE. ALL EXIT RAMP CLOSURES SHALL BE IN ACCORDANCE WITH THE FIGURE TITLED "EXIT RAMP CLOSURE DETAIL (SHORT TERM)".

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

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

ONLY ONE EXIT RAMP MAY BE CLOSED IN EACH DIRECTION AT ANYONE TIME.

**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 DEPARTMENT OF AVIATION OFFICE OF AVIATION 2829 WEST DUBLIN-GRANVILLE ROAD COLUMBUS, OHIO 43235 614-793-5046

**ITS EQUIPMENT NOTES:**

DMS CONTROL CABLE, DMS CONTROLLER, AND DMS CONTROLLER CABINET SHALL BE PAID FOR UNDER ITEM 631, SIGN LIGHTING MISC.: DMS ASSEMBLY, EACH.

WIRELESS CABLE SHALL BE PAID UNDER ITEM 632, "WIRELESS COMMUNICATION ASSEMBLY". CCTV CAMERA DRIVER AND CCTV CONTROL CABLE SHALL BE PAID UNDER ITEM "CCTV CAMERA ASSEMBLY"

IN ALL CONDUIT INSTALLED ON THIS PROJECT, THE CONTRACTOR SHALL PLACE PULL ROPE AND PLUGS IN ALL UNUSED INNERDUCT CONDUIT IMMEDIATELY UPON INSTALLATION, THIS WORK WILL BE SUBSIDIARY TO THE VARIOUS PAY ITEMS.

METAL "TRACER WIRE" WILL BE INSTALLED WITH ALL "FIBER OPTIC CABLE". TRACER WIRES SHALL BE GROUNDED AS REQUIRED BY NEC.

ALL ITS FIELD EQUIPMENT CABINETS WILL BE KEYED WITH CORBIN #2.

CONTROLLER WORK PADS SIZE SHALL BE 48" W x 84" L x 3" D

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 1500 FEET FROM THE SIGN.

CONTRACTOR SHALL USE ELECTRONIC SURVEY METHODS FOR LOCATING ALL DEVICES. ODOT WILL REVIEW THE PLACEMENT OF ALL EQUIPMENT IN THE FIELD BEFORE BEGINNING WORK. CONTRACTOR SHALL SUBMIT FOR APPROVAL FIBER OPTIC SPLICE LOCATIONS PRIOR TO ORDERING MATERIAL. ALL FIBER OPTIC SPLICING SHALL BE INCLUDED IN THE BID PRICE FOR THE FIBER OPTIC CABLE.

CONTRACTOR SHALL ENSURE ALL EQUIPMENT IS GROUNDED AN ACCORDANCE WITH THE MANUFACTURER SPECIFICATIONS.



**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.

**LAW ENFORCEMENT OFFICER WITH PATROL CAR**

IN ADDITION TO THE REQUIREMENTS OF 614 AND THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD), A UNIFORMED LAW ENFORCEMENT OFFICER (AND OFFICIAL PATROL CAR WITH WORKING TOP MOUNTED EMERGENCY FLASHING LIGHTS) SHALL BE PROVIDED FOR CONTROLLING TRAFFIC FOR THE FOLLOWING TASKS:

- 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 EXIT RAMP CLOSURES: DURING THE ENTIRE ADVANCE PREPARATION AND CLOSURE.
- SEQUENCE WHERE COMPLETE BLOCKAGE OF TRAFFIC IS REQUIRED.
- FOR SHORT TERM CLOSURE.

LAW ENFORCEMENT OFFICERS (L.E.O.'S) SHOULD NOT BE USED WHERE THE OMUTCD INTENDS THAT FLAGGERS BE USED. THE LEO'S ARE CONSIDERED TO BE EMPLOYED BY THE CONTRACTOR AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR ACTIONS. ALTHOUGH THEY ARE EMPLOYED BY THE CONTRACTOR, THE PROJECT ENGINEER SHALL HAVE CONTROL OVER THEIR PLACEMENT. THE OFFICIAL PATROL CAR SHALL BE A PUBLIC SAFETY VEHICLE AS REQUIRED BY THE OHIO REVISED CODE. THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR THESE SERVICES. LAW ENFORCEMENT OFFICERS (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 OFFICER (WITH PATROL CAR). THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR 1500 HOURS  
THE HOURS PAID SHALL INCLUDE MINIMUM SHOW-UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED.

IF CONTRACTORS WISH TO UTILIZE LEO'S FOR FLAGGING AND TRAFFIC CONTROL OTHER THAN FOR THAT REQUIRED IN THESE PLANS, THEY MAY DO SO AT THEIR OWN EXPENSE. PAYMENT FOR THE EXCESS ABOVE THE CONTRACT REQUIREMENTS WILL BE INCLUDED UNDER ITEM 614 MAINTAINING TRAFFIC.

THE CONTRACTOR SHALL PROVIDE THE SERVICES OF SPECIAL DUTY LAW ENFORCEMENT OFFICERS (L.E.O.) FOR THE PURPOSE OF ASSISTING WITH CLOSING AND OPENING LANES, AND GUIDING TRAFFIC THROUGH THE WORK AREA.

**ALTERNATIVE METHODS**

IF THE CONTRACTOR SO ELECTS, HE/SHE MAY SUBMIT ALTERNATE METHODS FOR THE MAINTENANCE OF TRAFFIC, PROVIDED THE INTENT OF THE ABOVE PROVISIONS IS 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 GRANTED 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 FLOODLIGHT 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.

**MAINTENANCE OF TRAFFIC SCHEME**

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGNING AND MAINTAINING SAFE AND EFFECTIVE TRAFFIC CONTROL 24 HOURS A DAY FOR THE DURATION OF THIS PROJECT. ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR.

THE CONTRACTOR SHALL DEVISE A MAINTENANCE OF TRAFFIC SCHEME WHICH SHALL BE STAMPED BY A PROFESSIONAL ENGINEER, AND PRESENT IT TO THE ENGINEER FOR APPROVAL. THE MAINTENANCE OF TRAFFIC SCHEME SHALL PRESENT, IN GENERAL, THE METHOD FOR CONDUCTING THE REQUIRED WORK IN A SAFE AND EFFICIENT MANNER. THE PLANS SHALL INCLUDE THE FOLLOWING COMPONENTS:

- PLAN VIEW AT AN APPROPRIATE SCALE TO SHOW:
  - WORK AREA
  - BEGIN/END STATIONING OF TAPERS, TEMPORARY MARKINGS, ETC.
  - TEMPORARY PAVEMENT
  - LOCATIONS OF SIGNS (EXISTING OVERHEAD SIGNS AND ALL PROPOSED, COVERED, OR MODIFIED SIGNS)
  - LOCATIONS OF TYPICAL SECTIONS
  - REFERENCES TO APPLICABLE STANDARD DRAWINGS
  - TYPICAL SECTIONS SHOWING: LANE WIDTHS, PAVEMENT MARKINGS, DRUMS, PCB, ETC. LIMITING STATIONS
  - WORK AREA AND DROP-OFFS
  - SIGN DETAILS FOR PROPOSED SIGNS AND OVERLAYS/ MODIFICATIONS

THE MAINTENANCE OF TRAFFIC SCHEME SHALL BE IN CONFORMANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST REVISION, THE REFERENCED STANDARD CONSTRUCTION DRAWINGS INCLUDING DESIGNER NOTES, THE CONSTRUCTION AND MATERIAL SPECIFICATIONS (CMS), POLICY NO. 516-003(P) TRAFFIC MANAGEMENT IN WORK ZONES INTERSTATE AND OTHER FREEWAYS, ODOT LOCATION AND DESIGN MANUAL, VOLUME 1, AND ALL REQUIREMENTS DETAILED IN THESE PLANS.

THIS SUBMITTAL SHALL CONSIST OF THREE (3) COPIES OF THE PLANS FOR REVIEW AND DISTRIBUTION. NO WORK SHALL BEGIN AT THE LOCATION UNTIL THE MAINTENANCE OF TRAFFIC PLANS HAVE BEEN APPROVED BY OHIO DEPARTMENT OF TRANSPORTATION.

THE PROGRESS SCHEDULE WILL BE REQUIRED TO APPROVE THE MAINTENANCE OF TRAFFIC PLANS. THIS SCHEDULE OF OPERATIONS SHALL DETAIL THE CONTRACTOR(S) WORK ACTIVITIES AND HIS METHODS OF MAINTAINING TRAFFIC DURING THESE ACTIVITIES. MAINTENANCE OF TRAFFIC PLANS SHALL BE PREPARED AND SUBMITTED TO THE DISTRICT FOR APPROVAL. THESE PLANS SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER. THE DISTRICT SHALL HAVE 14 CALENDAR DAYS TO REVIEW AND COMMENT ON THESE PLANS. THE CONTRACTOR SHALL NOT BEGIN ANY WORK REQUIRING TRAFFIC CONTROL UNTIL THE ENGINEER HAS GIVEN APPROVAL OF THE CONTRACTOR(S) SEQUENCE OF OPERATIONS AND MAINTENANCE OF TRAFFIC PLANS.

THE MAINTENANCE OF TRAFFIC SCHEME SHALL TAKE INTO CONSIDERATION SNOW AND ICE OPERATIONS FROM DECEMBER 1 THROUGH MARCH 31. LANE SHIFTS, RESTRICTIONS, AND CLOSURES MAY NOT BE APPROVED IF THEY ADVERSELY AFFECT SNOW REMOVAL OPERATIONS.

IF IN THE OPINION OF THE ENGINEER, THE CONTRACTOR FAILS TO COMPLY WITH THESE REQUIREMENTS AND THE PROVISIONS OF THE APPROVED MAINTENANCE OF TRAFFIC PLAN, THE ENGINEER SHALL SUSPEND WORK UNTIL ALL REQUIREMENTS ARE MET. ANY COSTS OR DELAYS INCURRED AS A RESULT OF THE FAILURE SHALL BE THE FULL RESPONSIBILITY OF THE CONTRACTOR.

PAYMENT FOR ALL THE ITEMS REQUIRED TO MAINTAIN TRAFFIC IN ACCORDANCE WITH THESE REQUIREMENTS SHALL BE INCLUDED IN THE LUMP SUM PRICE FOR ITEM 614 - MAINTAINING TRAFFIC, AS PER PLAN.

A TOTAL OF 12 MONTHS 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.

**ELECTRICAL NOTE**

THE INSTALLATION OF UNIDUCT IN CONDUIT WILL BE INCIDENTAL TO THE PAY ITEM FOR JACKING/BORING CONDUIT. THE INSTALLATION OF UNIDUCT IN TRENCH WILL BE PAID FOR UNDER THE PAY ITEM FOR TRENCHING/PLOWING. THE UNIT DUCT MATERIAL WILL BE PROCURED UNDER THE PAY ITEM FOR UNIT DUCT.

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 UNIDUCT QUANTITIES. NO EXTRA QUANTITY SHALL BE PROVIDED FOR UNDER THE UNIT DUCT 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 30" DEEP. THIS ITEM WILL BE PAID SEPARATELY FROM THE UNIT DUCT AS TRENCH, 30" DEEP.

CONDUIT JACKED OR BORED UNDER ROADWAY SHALL BE PERPENDICULAR TO ROADWAY.

ON CURBED URBAN STREETS WHERE THE DESIGN SPEED IS LESS THAN 50 MPH, 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 3R, SINGLE THROW, 2-POLE, AND RATED FOR 60A OR 100A AT 240V OR 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 BE IN ACCORDANCE WITH THE PADLOCK SPECIAL PROVISIONS AND ARE PAID SEPARATELY. THE FUSES ARE AS INDICATED ON THE PLANS AND SHALL BE EITHER 30A, OR 80A, 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.

FOR A DUAL SERVICE POINT, A DISTRIBUTION PANEL SHALL BE MOUNTED IN PLACE OF A DISCONNECT. A DUAL SERVICE POINT IS DEFINED AS A SERVICE POINT THAT FEEDS TWO DIFFERENT DEVICES WITH TWO SEPARATE SETS OF FEEDERS. THE PANEL ENCLOSURE SHALL BE RATED NEMA 3R 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. THE PADLOCK SHALL BE IN ACCORDANCE WITH THE PADLOCK SPECIAL PROVISIONS AND ARE PAID SEPARATELY. THE SERVICE PANEL SHALL HAVE A 100 AMP MAIN BREAKER WITH TWO 2-POLE, 600V BOLT-ON TYPE BRANCH CIRCUIT BREAKERS DESCRIBED IN THE OVERCURRENT PROTECTIVE DEVICES SECTION OF THE SPECIFICATIONS. SITE 271011 SHALL HAVE A 120A MAIN DISCONNECT. THE CIRCUIT BREAKERS SHALL BE SIZED ACCORDING TO PLAN.

FOR THE 480V SERVICE POINT, AN EXTRA NON-FUSIBLE DISCONNECT WILL BE REQUIRED IN ADDITION TO THE PRIMARY AND SECONDARY DISCONNECTS, AS SHOWN IN THE DETAILS. THE TRANSFORMER THAT IS REQUIRED FOR THE 480V SERVICE SHALL BE PAID FOR SEPARATELY.

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, 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.

**PAYMENT**

THE ELECTRICAL POWER SERVICE WILL BE PAID FOR AS:

- POWER SERVICE, TYPE A PAID FOR UNDER POWER SERVICE, AS PER PLAN A
- POWER SERVICE, TYPE B PAID FOR UNDER POWER SERVICE, AS PER PLAN B
- POWER SERVICE, TYPE C PAID FOR UNDER POWER SERVICE, AS PER PLAN C
- POWER SERVICE, TYPE A, 480V PAID FOR UNDER POWER SERVICE, AS PER PLAN D

**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 FOR 25% OF THE LENGTH OF EXISTING F/O BACKBONE CONDUITS. 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 CLEANING PULL BOXES AND DRESSING EXISTING CONDUIT WITHIN THESE 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.

**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.

- DISTRIBUTION CABLE, MISC.: NO. 8 AWG AERIAL CABLE
- DUCT CABLE, MISC.: 1-1/2" DUCT CABLE WITH THREE NO. 6 AWG 5000 VOLT CABLES
- DUCT CABLE, MISC.: 1-1/2" DUCT CABLE WITH THREE NO. 8 AWG 5000 VOLT CABLES
- DUCT CABLE, MISC.: 1-1/2" DUCT CABLE WITH THREE NO. 3/0 AWG 5000 VOLT CABLES
- DUCT CABLE, MISC.: 2" DUCT CABLE WITH THREE NO. 1/0 AWG 5000 VOLT CABLES
- DUCT CABLE, MISC.: 2" DUCT CABLE WITH THREE NO. 4/0 AWG 5000 VOLT CABLES
- CONDUIT, MISC.: 3", FIBERGLASS REINFORCED, ATTACHED TO STRUCTURE
- CONDUIT, JACKED OR DRILLED UNDER PAVEMENT, AS PER PLAN, 4" SCHEDULE 80
- PULL BOX, MISC.: 725.08 32"
- PULL BOX, MISC.: 725.08 48"
- POWER SERVICE, AS PER PLAN, A
- POWER SERVICE, AS PER PLAN, B
- POWER SERVICE, AS PER PLAN, C
- POWER SERVICE, AS PER PLAN, D
- CHANGEABLE MESSAGE SIGN, UNLIMITED MESSAGE, AS PER PLAN A
- CHANGEABLE MESSAGE SIGN, UNLIMITED MESSAGE, AS PER PLAN B
- INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE INSTALLED IN EXISTING CONDUIT
- INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 FIBERS, DIRECT BURY
- INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 FIBERS
- INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, SINGLE-MODE 6
- INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, SINGLE-MODE 36
- INTERCONNECT CABLE, MISC.: MULTI CONDUCTOR CABLE
- INTERCONNECT, MISC.: INNERDUCT 1"
- INTERCONNECT, MISC.: WIRELESS COMMUNICATION ASSEMBLY
- INTERCONNECT, MISC.: FIBER OPTIC PATCH PANEL (6)
- INTERCONNECT, MISC.: FIBER OPTIC PATCH PANEL (36)
- INTERCONNECT, MISC.: FIBER OPTIC PATCH PANEL (144)
- INTERCONNECT, MISC.: FIBER OPTIC SPLICE ENCLOSURE ASSEMBLY
- INTERCONNECT, MISC.: FIBER OPTIC MARKERS
- INTERCONNECT, MISC.: TRAINING
- SIGNALIZATION, MISC.: CCTV POLE CAMERA ASSEMBLY
- SIGNALIZATION, MISC.: CCTV POLE FOUNDATION, TYPE A (70 FT.)
- SIGNALIZATION, MISC.: CCTV POLE, TYPE A (70 FT), WITH LOWERING DEVICE
- SIGNALIZATION, MISC.: VEHICLE DETECTION ASSEMBLY
- SIGNALIZATION, MISC.: VEHICLE HIGHWAY ADVISORY RADIO
- SIGNALIZATION, MISC.: EXISTING HIGHWAY ADVISORY RADIO TO BE REMOVED FOR STORAGE

**ITEM 625E25901, CONDUIT, JACKED OR DRILLED UNDER PAVEMENT, AS PER PLAN, 4" SCHEDULE 80**

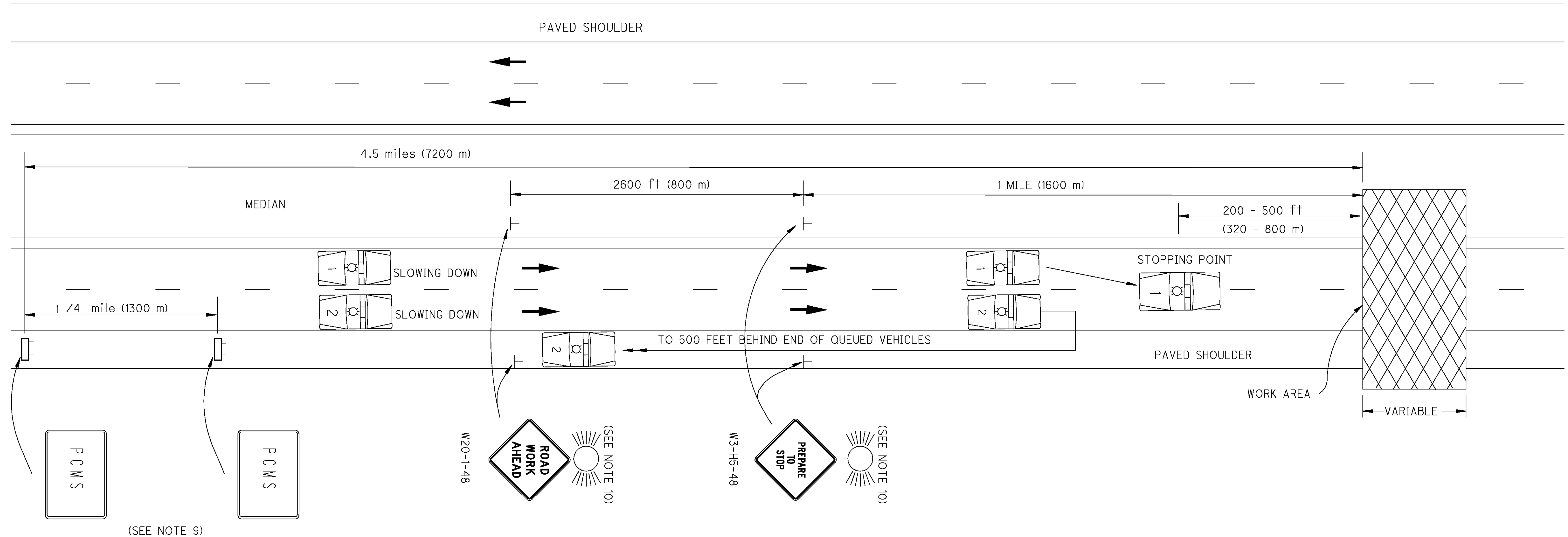
THE DISTRICT HAS STORED 10,000 FT. OF THIS ITEM. THIS QUANTITY SHALL BE OBTAINED FROM THE LOCATION TO BE IDENTIFIED BY THE PROJECT ENGINEER AND USED ON THE PROJECT PRIOR TO ANY PURCHASED MATERIAL OF THE SAME TYPE. THE PROJECT ENGINEER WILL NEED AT LEAST 48 HOUR ADVANCED NOTICE TO MAKE ARRANGEMENTS FOR PICK-UP.

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

ALL PULL BOX LIDS USED FOR ELECTRIC SHALL BE FABRICATED WITH RAISED LETTERS "ELECTRIC". ALL PULL BOXES SHALL BE INSTALLED WITH A GROUND ROD UNLESS THE BOX HOUSES ONLY COMMUNICATION/INTERCONNECT CABLE. NO EXTRA PAYMENT WILL BE MADE FOR THE GROUNDING OF ELECTRICAL PULL BOXES.

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SHORT-DURATION CLOSURE OF  
MULT-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 ONE 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.), "EXCEPT 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 SPECIFICATIONS AND ODOT STANDARD DRAWINGS FOR ADDITIONAL MAINTENANCE OF TRAFFIC NOTES AND DETAILS.

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SHEET NUMBER											PARTICIPATION		ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.	CALCULATED	RAT	CHECKED	PPA		
40	54	55	56																					
																	<b>ROADWAY</b>							
													LUMP		LUMP		CLEARING AND GRUBBING							
														201	11000				40					
														202	42207	5	EACH	ANCHOR ASSEMBLY REMOVED, AS PER PLAN						
														202	75711	133	FT	EXISTING CONDUIT CLEANED, AS PER PLAN						
														606	13000	2337.5	FT	GUARDRAIL, TYPE 5						
														606	13050	87.5	FT	GUARDRAIL, TYPE 5A						
														606	22010	12	EACH	ANCHOR ASSEMBLY, TYPE E-98						
														606	26500	7	EACH	ANCHOR ASSEMBLY, TYPE T						
														607	35000	20	FT	FENCE REMOVED AND REBUILT						
																<b>TRAFFIC SURVEILLANCE</b>								
														625	23000	195	FT	NO. 4 AWG 600 VOLT DISTRIBUTION CABLE						
														625	23100	465	FT	NO. 2 AWG 600 VOLT DISTRIBUTION CABLE						
														625	23304	1764	FT	NO. 8 AWG 600 VOLT DISTRIBUTION CABLE						
														625	23308	225	FT	DISTRIBUTION CABLE, MISC.: NO. 8 AWG AERIAL CABLE						
														625	24320	1231	FT	1-1/2" DUCT CABLE WITH THREE NO. 4 AWG 5000 VOLT CABLES						
														625	24330	1355	FT	1-1/2" DUCT CABLE WITH THREE NO. 2 AWG 5000 VOLT CABLES						
														625	24400	8157	FT	DUCT CABLE, MISC.: 1-1/2" DUCT CABLE WITH THREE NO. 6 AWG 5000 VOLT CABLES						
														625	24400	11993	FT	DUCT CABLE, MISC.: 1-1/2" DUCT CABLE WITH THREE NO. 8 AWG 5000 VOLT CABLES						
														625	24400	925	FT	DUCT CABLE, MISC.: 1-1/2" DUCT CABLE WITH THREE NO. 3/0 AWG 5000 VOLT CABLES						
														625	24400	763	FT	DUCT CABLE, MISC.: 2" DUCT CABLE WITH THREE NO. 1/0 AWG 5000 VOLT CABLES						
														625	24400	5272	FT	DUCT CABLE, MISC.: 2" DUCT CABLE WITH THREE NO. 4/0 AWG 5000 VOLT CABLES						
														625	25400	130	FT	CONDUIT, 2", 725.04						
														625	25402	3022	FT	CONDUIT, 2", 725.05						
														625	25500	20152	FT	CONDUIT, 3", 725.04						
														625	25502	55439	FT	CONDUIT, 3", 725.05						
														625	25900	1712	FT	CONDUIT, JACKED OR DRILLED UNDER PAVEMENT, 3" SCHEDULE 80						
														625	25901	11076	FT	CONDUIT, JACKED OR DRILLED UNDER PAVEMENT, AS PER PLAN, 4" SCHEDULE 80						
														625	25920	17723	FT	CONDUIT, MISC.: 3", FIBERGLASS REINFORCED, ATTACHED TO STRUCTURE						
														625	29002	24415	FT	TRENCH, 24" DEEP						
														625	29200	56091	FT	TRENCH, 48" DEEP						
														625	29400	2766	FT	TRENCH IN PAVED AREA						
														625	29921	10	EACH	STRUCTURE JUNCTION BOX, AS PER PLAN						
														625	30701	225	EACH	PULL BOX, 725.08, 18", AS PER PLAN						
														625	31600	499	EACH	PULL BOX, MISC.: 725.08, 32"						
														625	31600	74	EACH	PULL BOX, MISC.: 725.08, 48"						
														625	34001	65	EACH	POWER SERVICE, AS PER PLAN A						
														625	34001	4	EACH	POWER SERVICE, AS PER PLAN B						
														625	34001	5	EACH	POWER SERVICE, AS PER PLAN C						
														625	34001	1	EACH	POWER SERVICE, AS PER PLAN D						
														625	34300	4	EACH	TRANSFORMER PAD, CONCRETE						
														630	74500	13	EACH	OVERHEAD SIGN SUPPORT, MISC.: DMS PEDESTAL						
														630	74500	5	EACH	OVERHEAD SIGN SUPPORT, MISC.: DMS TRUSS						
														630	84510	16	EACH	RIGID OVERHEAD SIGN SUPPORT FOUNDATION						
														630	84511	4	EACH	RIGID OVERHEAD SIGN SUPPORT FOUNDATION, AS PER PLAN						
														630	97700	13	EACH	SIGNING, MISC.: RIGID OVERHEAD SIGN SUPPORT FOUNDATION, PEDESTAL						
														631	90201	13	EACH	CHANGEABLE MESSAGE SIGN, UNLIMITED MESSAGE, AS PER PLAN A						
														631	90201	5	EACH	CHANGEABLE MESSAGE SIGN, UNLIMITED MESSAGE, AS PER PLAN B						
														632	62810	531	FT	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE INSTALLED IN EXISTING CONDUIT						
														632	62810	251208	FT	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 FIBERS, DIRECT BURY						
														632	62810	121275	FT	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 FIBERS						

GENERAL SUMMARY

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SHEET NUMBER											PARTICIPATION		ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.				
42	55	56																				
																				<b>TRAFFIC SURVEILLANCE CONT.</b>		
													632	62810	8112	FT	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, SINGLE-MODE 6	42				
													632	62810	1896	FT	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, SINGLE-MODE 36	42				
													632	62810	2018	FT	INTERCONNECT CABLE, MISC.: MULTI - CONDUCTOR CABLE	42				
													632	62810	313	FT	INTERCONNECT, MISC.: INNERDUCT, 1"	42				
													632	62820	2	EACH	INTERCONNECT, MISC.: HIGHWAY ADVISORY RADIO	21				
													632	62820	59	EACH	INTERCONNECT, MISC.: FIBER OPTIC PATCH PANEL (6)	42				
													632	62820	10	EACH	INTERCONNECT, MISC.: FIBER OPTIC PATCH PANEL (36)	42				
													632	62820	2	EACH	INTERCONNECT, MISC.: FIBER OPTIC PATCH PANEL (144)	42				
													632	62820	73	EACH	INTERCONNECT, MISC.: FIBER OPTIC SPLICE ENCLOSURE ASSEMBLY	42				
													632	62820	2	EACH	INTERCONNECT, MISC.: WIRELESS COMMUNICATION ASSEMBLY	42				
													632	62820	550	EACH	INTERCONNECT, MISC.: FIBER OPTIC MARKERS	42				
													632	62830	LUMP		INTERCONNECT, MISC.: TRAINING	42				
													632	89300	2	EACH	WOOD POLE					
													632	89301	1	EACH	WOOD POLE, AS PER PLAN, 35 FT. CLASS C ASSEMBLY	39				
													632	90400	64	EACH	SIGNALIZATION, MISC.: CCTV POLE CAMERA ASSEMBLY	23				
													632	90400	64	EACH	SIGNALIZATION, MISC.: CCTV POLE FOUNDATION, TYPE A (70 FT.)	42				
													632	90400	64	EACH	SIGNALIZATION, MISC.: CCTV POLE, TYPE A (70 FT), WITH LOWERING DEVICE	42				
													632	90400	2	EACH	SIGNALIZATION, MISC.: EXISTING HIGHWAY ADVISORY RADIO TO BE REMOVED FOR STORAGE	42				
													632	90400	19	EACH	SIGNALIZATION, MISC.: VEHICLE DETECTION ASSEMBLY	24				
													632	90400	1	EACH	SIGNALIZATION, MISC.: TRANSFORMER, GENERAL PURPOSE, 7.5KVA, NON-VENTILATED TYPE	18				
													632	90400	2	EACH	SIGNALIZATION, MISC.: TRANSFORMER, GENERAL PURPOSE, 25KVA, NON-VENTILATED TYPE	18				
																	<b>TRAFFIC CONTROL</b>					
													630	07600	32	FT	GROUND MOUNTED SUPPORT, W10X12 BEAM					
													630	84500	2	EACH	GROUND MOUNTED BEAM SUPPORT FOUNDATION					
													630	85100	1	EACH	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION					
													630	85400	4	EACH	REMOVAL OF GROUND MOUNTED MAJOR SIGN AND DISPOSAL					
													630	86102	10	EACH	REMOVAL OF GROUND MOUNTED BEAM SUPPORT AND DISPOSAL					
													630	87100	5	EACH	REMOVAL OF OVERHEAD MOUNTED SIGN AND REERECTION					
													630	88800	5	EACH	REMOVAL OF OVERHEAD SIGN SUPPORT AND STORAGE					
																	<b>MAINTENANCE OF TRAFFIC</b>					
													614	11100	1500	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR	42				
													614	18510	12	MONTH	PORTABLE CHANGEABLE MESSAGE SIGN	42				
													103	05000	LUMP		PREMIUM FOR CONTRACT PERFORMANCE BOND AND FOR PAYMENT BOND					
													614	11000	LUMP		MAINTAINING TRAFFIC					
													619	16020	24	MONTH	FIELD OFFICE, TYPE C					
													623	10000	LUMP		CONSTRUCTION LAYOUT STAKES					
													624	10000	LUMP		MOBILIZATION					
																	<b>GENERAL SUMMARY</b>					
																	<b>STA - SUM ITS</b>					

CALCULATED RAT	CHECKED PPA	46

SHEET NO.	202	202	606	606	606	606	607	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625			
	ANCHOR ASSEMBLY REMOVED, AS PER PLAN	EXISTING CONDUIT CLEANED, AS PER PLAN	GUARDRAIL, TYPE 5	GUARDRAIL, TYPE 5A	ANCHOR ASSEMBLY, TYPE E-98	ANCHOR ASSEMBLY, TYPE T	FENCE REMOVED AND REBUILT	DISTRIBUTION CABLE, MISC.: NO.8 AWG AERIAL CABLE	NO.8 AWG 600 VOLT DISTRIBUTION CABLE	NO.4 AWG 600 VOLT DISTRIBUTION CABLE	NO.2 AWG 600 VOLT DISTRIBUTION CABLE	1-1/2" DUCT CABLE WITH THREE NO.4 AWG 5000 VOLT CABLES	1-1/2" DUCT CABLE WITH THREE NO.2 AWG 5000 VOLT CABLES	DUCT CABLE MISC.: 1-1/2" DUCT CABLE WITH THREE NO.6 AWG 5000 VOLT CABLES	DUCT CABLE MISC.: 1-1/2" DUCT CABLE WITH THREE NO.8 AWG 5000 VOLT CABLES	DUCT CABLE MISC.: 2" DUCT CABLE WITH THREE NO.1/0 AWG 5000 VOLT CABLES	CONDUIT, 2", T25.04	CONDUIT, 2", T25.05	CONDUIT, 3", T25.04	CONDUIT, 3", T25.05	CONDUIT, 3", T25.05	CONDUIT, MISC.: 3", CONDUIT FIBERGLASS REINFORCED, ATTACHED TO STRUCTURE	CONDUIT, JACKED OR DRILLED UNDER PAVEMENT, 3" SCHEDULE 80					
	EACH	FT	FT	FT	EACH	EACH	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT
58										135		348						15								154		
59								225																				
60														1962													62	
61												216															72	
62																701												
63			462.5		1	1								229				987			187			1051				
64																								912				
65																326								1729	720			
66																360								1741	195			
67																								1600	644			
68																120								232	129			
69																												
70																495								1329	300			
71																												
72																102										477	160	
73																								64	178	617		
74																								70	652	711		
75																95					42		525	370		50		
76																									320	441		
77								1494								410					62		859	614	1128	46		
78																232							418					
79																							1135	455	109			
80																							2378	657				
81																							1705	365				
82																177					213					198		
83	1		187.5		1		20								286								819			139		
84																									1880	487		
85																									949			
86																												
87																									519	174		
88																									552			
89																124								1740	185			
90																								2668				
91			175		1	1				55					395						302							
92	1		212.5		1					156																		
93			112.5		1	1						234														31		
94																												
95																396										1010	340	60
96																									3554			
97																505								619	354		60	
98																131									788			
99																80								1560	22	153		
100																												
101																										267	210	
102																1310									535	364	200	
103																										205		
104																										174		
105																												
106										40						256										210	55	
107																147									249	730		
108																												
109										142						157						73					70	
110																										315		

**SUBTOTALS**

2	0	1150	0	5	3	20	225	1494	0	135	609	582	3501	5653	0	195	5272	15	879	13706	21757	8689	999					
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**ITS SUBSUMMARY**

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CALCULATED  
PPA  
CHECKED  
JTS

SHEET NO.	DESCRIPTION																									CALCULATED	PPA CHECKED	JTS																						
	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	630	630	630	630	630	630	630	630	630	630				630																					
CONDUIT, JACKED OR DRILLED UNDER PAVEMENT, AS PER PLAN, 4" SCHEDULE 80	TRENCH, 24" DEEP	TRENCH, 48" DEEP	TRENCH IN PAVED AREAS	PULL BOX, 725.08, 18", AS PER PLAN	PULL BOX, MISC.: 725.08, 32"	STRUCTURE JUNCTION BOX, AS PER PLAN	PULL BOX, MISC.: 725.08, 48"	POWER SERVICE, AS PER PLAN A	POWER SERVICE, AS PER PLAN B	POWER SERVICE, AS PER PLAN C	POWER SERVICE, AS PER PLAN D	TRANSFORMER PAD, CONCRETE	OVERHEAD SIGN SUPPORT, MISC.: DMS PEDESTAL	OVERHEAD SIGN SUPPORT, MISC.: DMS TRUSS	GROUND MOUNTED BEAM SUPPORT FOUNDATION	RIGID OVERHEAD SIGN SUPPORT FOUNDATION	RIGID OVERHEAD SIGN SUPPORT FOUNDATION, AS PER PLAN	SIGNING, MISC.: RIGID OVERHEAD SIGN SUPPORT FOUNDATION, PEDESTAL	GROUND MOUNTED SUPPORT, W10X12 BEAM	REMOVAL OF GROUND MOUNTED SIGN AND REEFECTION	REMOVAL OF GROUND MOUNTED MAJOR SIGN AND DISPOSAL	REMOVAL OF GROUND MOUNTED BEAM SUPPORT AND DISPOSAL	REMOVAL OF OVERHEAD MOUNTED SIGN AND REEFECTION	REMOVAL OF OVERHEAD SIGN SUPPORT AND STORAGE																										
FT	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	FT	EACH	EACH	EACH	EACH	EACH	EACH																									
58		164		4									1				1																																	
59		123		2				1																																										
60		1845		6				1																																										
61		176		3				1					1		2			1	32	1		2																												
62		574		6				1				1																																						
63		1156	1243	4	2		1	1					1					1			1	2																												
64	60		912		3																																													
65	96	286	1729	3	10		1	1																																										
66	321	325	1741	2	11		1	1																																										
67	49		1600		8																																													
68	48	85	232	2	4		1	1																																										
69	133				2																																													
70	337	455	1037	3	7		2	1																																										
71	46				2																																													
72	46	67	477	2	4		1	1																																										
73	56		178		6	2																																												
74	124		652		9																																													
75	109	10	412	2	7		1	1																																										
76	89		320		6																																													
77	375	339	369	3	11		4	1																																										
78	190	197		2	5		1	1																																										
79	139		455		6																																													
80	52		657		5	1																																												
81	32		365		2	2																																												
82	192	142	213	2	5		1	1																																										
83		102		4	2		1	1																																										
84	92		1880		8																																													
85					2																																													
86	182	40		2	3		1	1																																										
87	52		519		3																																													
88	47		552		3																																													
89		1546	1740	2	4		1	1			1	1																																						
90		2638																																																
91		485	307	2	1		1					1	1					1																																
92		121		2				1					1					1																																
93		158		4				1					1					1																																
94																																																		
95	657	256	1010	6	12		1	2																																										
96	48				2	2																																												
97	97	400	354	4	6	2	1	1																																										
98	202	96	788	2	7		1	1																																										
99	39	45	22	2	4	1	1	1																																										
100	46				2																																													
101	96		267		8																																													
102	52	1045	535	8	6		1	1																																										
103	48				4																																													
104	132	160		2	3		1	1						1		2	2						1	1																										
105																																																		
106	105	176	210	4	5		1		1																																									
107	72	112	249	2	6		1	1																																										
108																																																		
109	137	174	73	4	2		1		1																																									
110	82				6																																													
<b>SUBTOTALS</b>																										4680	13334	21262	0	96	214	10	27	27	2	0	1	3	6	1	2	2	2	6	32	1	1	4	1	1



SHEET NO.	202	202	606	606	606	606	607	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625		
	ANCHOR ASSEMBLY REMOVED, AS PER PLAN	EXISTING CONDUIT CLEANED, AS PER PLAN	GUARDRAIL, TYPE 5	GUARDRAIL, TYPE 5A	ANCHOR ASSEMBLY, TYPE E-98	ANCHOR ASSEMBLY, TYPE T	FENCE REMOVED AND REBUILT	DISTRIBUTION CABLE, MISC.: NO.8 AWG AERIAL CABLE	NO.8 AWG 600 VOLT DISTRIBUTION CABLE	NO.4 AWG 600 VOLT DISTRIBUTION CABLE	NO.2 AWG 600 VOLT DISTRIBUTION CABLE	1-1/2" DUCT CABLE WITH THREE NO.4 AWG 5000 VOLT CABLES	1-1/2" DUCT CABLE WITH THREE NO.2 AWG 5000 VOLT CABLES	DUCT CABLE MISC.: 1-1/2" DUCT CABLE WITH THREE NO.6 AWG 5000 VOLT CABLES	DUCT CABLE MISC.: 1-1/2" DUCT CABLE WITH THREE NO.8 AWG 5000 VOLT CABLES	DUCT CABLE MISC.: 1-1/2" DUCT CABLE WITH THREE NO.3/0 AWG 5000 VOLT CABLES	DUCT CABLE MISC.: 2" DUCT CABLE WITH THREE NO.1/0 AWG 5000 VOLT CABLES	DUCT CABLE MISC.: 2" DUCT CABLE WITH THREE NO.4/0 AWG 5000 VOLT CABLES	CONDUIT, 2", 725.04	CONDUIT, 2", 725.05	CONDUIT, 3", 725.04	CONDUIT, 3", 725.05	CONDUIT, MISC.: 3", CONDUIT FIBERGLASS REINFORCED, ATTACHED TO STRUCTURE	CONDUIT, JACKED OR DRILLED UNDER PAVEMENT, 3" SCHEDULE 80	
	EACH	FT	FT	FT	EACH	EACH	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	
111																							942		
112				87.5	1	1							264											47	
113															93						130			177	
114																							754		
115																							1220		
116																							1809	199	
117			287.5		1	1									87	925									
118																									
119												184													
120																									
121															63										
122																									
123																							1126	291	
124																									
125	1		12.5		1								222		124						127				
126																									
127																							694	330	
128													103												
129																									
130									135			234						15	115				1449	281	
131																							186		
132																									
133															361						20		642	794	
134																								37	
135															60						25	1574	862	164	
136															111							1100	55	165	
137																							397		
138																325							998	160	
139																								48	
140																66					36				
141		34																					812	193	
142		33											89									100			
143																217					118			50	
144																							1627	270	
145		33																			72				
146																									
147															974										
148		33														413									
149																									
150															404									148	
151															1185						361		932	200	
152																									
153																							867	250	
154																									
155																			15						
156											195				109				35	53					
157																							1517	543	
158													95							93				130	
159																									
160																									
161																								195	
162																					303				
163																									
<b>SUBTOTALS</b>																									
	1	133	300	87.5	3	2	0	0	135	195	135	418	773	2563	2615	925	0	0	65	1553	2900	16889	4290	382	

ITS SUBSUMMARY

STA - SUM ITS

CALCULATED  
PPA  
CHECKED  
JTS



SHEET NO.	625																									630		630		630		630		630		630		630		630		630		630		630		630	
	CONDUIT, JACKED OR DRILLED UNDER PAVEMENT, AS PER PLAN, 4" SCHEDULE 80	TRENCH, 24" DEEP	TRENCH, 48" DEEP	TRENCH IN PAVED AREAS	PULL BOX, 725.08, 18", AS PER PLAN	PULL BOX, MISC.: 725.08, 32"	STRUCTURE JUNCTION BOX, AS PER PLAN	PULL BOX, MISC.: 725.08, 48"	POWER SERVICE, AS PER PLAN A	POWER SERVICE, AS PER PLAN B	POWER SERVICE, AS PER PLAN C	POWER SERVICE, AS PER PLAN D	TRANSFORMER PAD, CONCRETE	OVERHEAD SIGN SUPPORT, MISC.: DMS PEDESTAL	OVERHEAD SIGN SUPPORT, MISC.: DMS TRUSS	GROUND MOUNTED BEAM SUPPORT FOUNDATION	RIGID OVERHEAD SIGN SUPPORT FOUNDATION	RIGID OVERHEAD SIGN SUPPORT FOUNDATION, AS PER PLAN	SIGNING, MISC.: RIGID OVERHEAD SIGN SUPPORT FOUNDATION, PEDESTAL	GROUND MOUNTED SUPPORT, W/10X12 BEAM	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	REMOVAL OF GROUND MOUNTED MAJOR SIGN AND DISPOSAL	REMOVAL OF GROUND MOUNTED BEAM SUPPORT AND DISPOSAL	REMOVAL OF OVERHEAD MOUNTED SIGN AND REERECTION	REMOVAL OF OVERHEAD MOUNTED SIGN AND REERECTION	REMOVAL OF OVERHEAD SIGN SUPPORT AND STORAGE																							
	FT	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	FT	EACH	EACH	EACH	EACH	EACH	EACH																							
111	178				2		1																																										
112	45	172			4	3	1	1						1		4									1	1																							
113	40					2																																											
114	212	58	130		2	5	2	1																																									
115	223		754			5																																											
116			1220			2																																											
117		937	1809		5	3	2	2						1					1			1	2																										
118																																																	
119	170	144			3	1	1	1						1					1																														
120																																																	
121		28			2		1	1																																									
122																																																	
123	136		1126			6																																											
124																																																	
125		281	132		4	1	1	1							1		2	2							1	1																							
126																																																	
127	107	68	694		2	6	1	1																																									
128	59					2																																											
129																																																	
130		194	1569		3	7	1			1				1		4									1	1																							
131	264		225			2																																											
132	108					4																																											
133	289	244	662		6	9	2	2																																									
134	110					5																																											
135	34	30	887		1	6	1	1																																									
136	55	71	55		2	5	1	1																																									
137	106		397			5																																											
138	93	232	998		4	6	1	1																																									
139																																																	
140	130	31			2	2	1	1																																									
141	111		812			8																																											
142		54	100		2	2	1	1						1						1																													
143	102	122	118		4	5	1	1																																									
144			1627			2																																											
145		43			2	3	1	1																																									
146	63					2																																											
147	48	934			3	2	1	1																																									
148		378			1	1	1																																										
149	84				1	2		1																																									
150		379			1	2		1																																									
151	203	945	1293		8	7	1																																										
152																																																	
153	158	72	862		2	8	1	1																																									
154	39					2																																											
155		270			3		1																																										
156	214	109	53		2	6	1				1																																						
157			1517			4																																											
158	175	151	98		3	1	2	1						1					1			1	2																										
159						2																																											
160						1																																											
161						2																																											
162	478		303			9																																											
163							1																																										
<b>SUBTOTALS</b>	4034	5947	17441	0	72	160	0	29	22	0	3	0	0	4	3	0	10	2	4	0	0	2	4	3	3																								

CALCULATED PPA CHECKED JTS	<b>ITS SUBSUMMARY</b>	<b>STA - SUM ITS</b>	52
			390

SHEET NO.	632																								631		
	CHANGEABLE MESSAGE SIGN, UNLIMITED MESSAGE, AS PER PLAN A	CHANGEABLE MESSAGE SIGN, UNLIMITED MESSAGE, AS PER PLAN B	WOOD POLE	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE INSTALLED IN EXISTING CONDUIT	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 FIBERS, DIRECT BURY	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 FIBERS	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, SINGLE-MODE 6	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, SINGLE-MODE 36	INTERCONNECT CABLE, MISC.: MULTI-CONDUCTOR CABLE	INTERCONNECT, MISC.: HIGHWAY ADVISORY RADIO	INTERCONNECT, MISC.: FIBER OPTIC PATCH PANEL (6)	INTERCONNECT, MISC.: FIBER OPTIC PATCH PANEL (144)	INTERCONNECT, MISC.: FIBER OPTIC PATCH PANEL (36)	INTERCONNECT, MISC.: FIBER OPTIC SPLICE ENCLOSURE ASSEMBLY	INTERCONNECT, MISC.: INNERDUCT, 1"	INTERCONNECT, MISC.: WIRELESS COMMUNICATION ASSEMBLY	WOOD POLE, AS PER PLAN, 35 FT. CLASS C ASSEMBLY	SIGNALIZATION, MISC.: CCTV POLE CAMERA ASSEMBLY	SIGNALIZATION, MISC.: CCTV POLE FOUNDATION, TYPE A (70 FT.)	SIGNALIZATION, MISC.: CCTV POLE, TYPE A, (70 FT.), WITH LOWERING DEVICE	SIGNALIZATION, MISC.: EXISTING HIGHWAY ADVISORY RADIO TO BE REMOVED FOR STORAGE	SIGNALIZATION, MISC.: VEHICLE DETECTION ASSEMBLY	SIGNALIZATION, MISC.: TRANSFORMER, GENERAL-PURPOSE, 7.5KVA, NON-VENTILATED TYPE	SIGNALIZATION, MISC.: TRANSFORMER, GENERAL-PURPOSE, 25KVA, NON-VENTILATED TYPE			
	EACH	EACH	EACH	FT	FT	FT	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH			
111					932	967	268		1	1			1								1						
112	1				2721	120	65			1			1														
113					3284	90																					
114			1		3237	498	65	246		1		1	1				1	1	1	1		1					
115					1808	1177																					
116					25	1295																					
117	1				5716	2288	130				2		2						1	1	1						
118																											
119	1				4957	245	260				1		1														
120																											
121					3456		65				1		1						1	1	1						
122																											
123					4197	1803																					
124																											
125	1				5995		65		217		1		1						1	1	1						
126																											
127					960	1465	65				1		1						1	1	1						
128					4856	109																					
129																											
130	1				2148	2080	65		180		1		1						1	1	1		1				
131					2493	600						2		1													
132					1984	208																					
133					2466	2175	65	110			1		1						2	2	2						
134					1434	1834																					
135					1241	1561	85				1		1						1	1	1						
136					1772	1575	65				1		1						1	1	1		1				
137					1129	678																					
138					4932	1626	65				1		1						1	1	1						
139																											
140					1107		276				1		1						1	1	1		1				
141				134	1825	1416																					
142	1			130	3056		370				1		1														
143					2844	202	208				1		1						1	1	1						
144					25	1972																					
145				134	4262	187	249				1		1						1	1	1		1				
146					1681	113																					
147					4700	98	65				1		1						1	1	1						
148				133	2285		223				1		1						1	1	1						
149					713	134																					
150					3287	198																					
151					3491	1007		904				1	1						1	1	1						
152																											
153					1762	1730	65				1		1						1	1	1		1				
154					3280	89																					
155					2220		65				1		1						1	1	1						
156					2428	389	143				1		1						1	1	1						
157					1614	2210																					
158	1				1964		340		183		1		2						1	1	1		1				
159					3150	180																					
160					4037																						
161					1223	245																					
162					6664	202	879							1													
163																											
<b>SUBTOTALS</b>	7	0	1	531	119361	32766	4211	1260	580	1	24	2	3	28	0	0	1	21	21	21	1	7	0	0			

SHEET NO.	202	202	606	606	606	606	607	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	
	ANCHOR ASSEMBLY REMOVED, AS PER PLAN	EXISTING CONDUIT CLEANED, AS PER PLAN	GUARDRAIL, TYPE 5	GUARDRAIL, TYPE 5A	ANCHOR ASSEMBLY, TYPE E-98	ANCHOR ASSEMBLY, TYPE T	FENCE REMOVED AND REBUILT	DISTRIBUTION CABLE, MISC.: NO.8 AWG AERIAL CABLE	NO.8 AWG 600 VOLT DISTRIBUTION CABLE	NO.4 AWG 600 VOLT DISTRIBUTION CABLE	NO.2 AWG 600 VOLT DISTRIBUTION CABLE	1-1/2" DUCT CABLE WITH THREE NO.4 AWG 5000 VOLT CABLES	1-1/2" DUCT CABLE WITH THREE NO.2 AWG 5000 VOLT CABLES	DUCT CABLE MISC.: 1-1/2" DUCT CABLE WITH THREE NO.6 AWG 5000 VOLT CABLES	DUCT CABLE MISC.: 1-1/2" DUCT CABLE WITH THREE NO.8 AWG 5000 VOLT CABLES	DUCT CABLE MISC.: 1-1/2" DUCT CABLE WITH THREE NO.3/0 AWG 5000 VOLT CABLES	DUCT CABLE MISC.: 2" DUCT CABLE WITH THREE NO.1/0 AWG 5000 VOLT CABLES	DUCT CABLE MISC.: 2" DUCT CABLE WITH THREE NO.4/0 AWG 5000 VOLT CABLES	CONDUIT, 2", 725.04	CONDUIT, 2", 725.05	CONDUIT, 3", 725.04	CONDUIT, 3", 725.05	CONDUIT, MISC.: 3", CONDUIT FIBERGLASS REINFORCED, ATTACHED TO STRUCTURE	CONDUIT, JACKED OR DRILLED UNDER PAVEMENT, 3" SCHEDULE 80
	EACH	FT	FT	FT	EACH	EACH	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	
164																								
165														803								395		
166														20	224							2219	360	56
167																						400	412	
168															91							1742		
169																								
170																						2088	127	
171																								
172																								194
173									135		195			73	83			50			616	373	141	
174															186			231		795	849			
175																					876	1646		
176															289						559	1395		
177															110						360			
178																								
179	1		200		1										168						832	127		
180															679					500	661	214	28	
181																								
182																				280	478			
183															167			235		731	149			
184															640					436	1329			
185																								
186															444									82
187																					1205	204		
188																					229			
189															570									165
190														1177							270	132		
191													20						30			127		
192																					950	682		
193																								
194			362.5		1	1					204								94					
195																74								
196	1		325		2	1											568							
<b>SUBTOTALS THIS SHEET</b>																								
2	0	887.5	0	4	2	0	0	135	0	195	204	0	2093	3725	0	568	0	50	590	3546	16793	4744	331	
<b>SUBTOTALS SHEET 48</b>																								
2	0	1150	0	5	3	20	225	1494	0	135	609	582	3501	5653	0	195	5272	15	879	13706	21757	8689	999	
<b>SUBTOTALS SHEET 51</b>																								
1	133	300	87.5	3	2	0	0	135	195	135	418	773	2563	2615	925	0	0	65	1553	2900	16889	4290	382	
<b>TOTALS CARRIED TO THE GENERAL SUMMARY</b>																								
5	133	2337.5	87.5	12	7	20	225	1764	195	465	1231	1355	8157	11993	925	763	5272	130	3022	20152	55439	17723	1712	

CALCULATED	PPA	CHECKED	JTS
<b>ITS SUBSUMMARY</b>			
<b>STA - SUM ITS</b>			
54			
390			

SHEET NO.	COLUMNS 1-25																									CALCULATED	PPA CHECKED	JTS
	CONDUIT, JACKED OR DRILLED UNDER PAVEMENT, AS PER PLAN, 4" SCHEDULE 80	TRENCH, 24" DEEP	TRENCH, 48" DEEP	TRENCH IN PAVED AREAS	PULL BOX, 725.08, 18", AS PER PLAN	PULL BOX, MISC.: 725.08, 32"	STRUCTURE JUNCTION BOX, AS PER PLAN	PULL BOX, MISC.: 725.08, 48"	POWER SERVICE, AS PER PLAN A	POWER SERVICE, AS PER PLAN B	POWER SERVICE, AS PER PLAN C	POWER SERVICE, AS PER PLAN D	TRANSFORMER PAD, CONCRETE	OVERHEAD SIGN SUPPORT, MISC.: DMS PEDESTAL	OVERHEAD SIGN SUPPORT, MISC.: DMS TRUSS	GROUND MOUNTED BEAM SUPPORT FOUNDATION	RIGID OVERHEAD SIGN SUPPORT FOUNDATION	RIGID OVERHEAD SIGN SUPPORT FOUNDATION, AS PER PLAN	SIGNING, MISC.: RIGID OVERHEAD SIGN SUPPORT FOUNDATION, PEDESTAL	GROUND MOUNTED SUPPORT, W/Ø12 BEAM	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	REMOVAL OF GROUND MOUNTED MAJOR SIGN AND DISPOSAL	REMOVAL OF GROUND MOUNTED BEAM SUPPORT AND DISPOSAL	REMOVAL OF OVERHEAD MOUNTED SIGN AND REERECTION	REMOVAL OF OVERHEAD SIGN SUPPORT AND STORAGE			
	FT	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	FT	EACH	EACH	EACH	EACH	EACH			
164																												
165		773	395		3	2		1																				
166	221	128	2219		5	6	2	1																				
167	59		400			6																						
168		56	1742		2	3	1	1																				
169	100					4																						
170			2088			3																						
171	175					5																						
172						2																						
173	46	136	373	616	4	6	2	1		1									1									
174	48	116	1080	795	4	7	2	2																				
175	164		876			5																						
176	57	249	1395	559	3	4	1	1																				
177	117	75		360	2	6	1	1																				
178	48					3																						
179	200	98	832		2	8	2	2						1					1			1	2					
180	49	241	661		7	4	1		1																			
181	144					3																						
182	279		478			6																						
183	97	112	966		2	6	1		1					1														
184	47	600	1329	436	3	5	1	1																				
185																												
186	117	317			4	5	1	1																				
187			1205			4																						
188						2																						
189	226	355			5	5	1			1																		
190		1147	270		3	3		1																				
191		5	30		1	4	1																					
192	40		950			5																						
193																												
194	128	154	99		3	3	1	1						1					1									
195		39			2			1																				
196		533			2			1							1		4						1	1				
SUBTOTALS THIS SHEET																												
2362	5134	17388	2766	57	125	0	18	16	2	2	0	1	3	1	0	4	0	3	0	0	1	2	1	1				
SUBTOTALS SHEET 49																												
4680	13334	21262	0	96	214	10	27	27	2	0	1	3	6	1	2	2	2	6	32	1	1	4	1	1				
SUBTOTALS SHEET 52																												
4034	5947	17441	0	72	160	0	29	22	0	3	0	0	4	3	0	10	2	4	0	0	2	4	3	3				
TOTALS CARRIED TO THE GENERAL SUMMARY																												
11076	24415	56091	2766	225	499	10	74	65	4	5	1	4	13	5	2	16	4	13	32	1	4	10	5	5				


CALCULATED
PPA
CHECKED
JTS
<b>ITS SUBSUMMARY</b>
<b>STA - SUM ITS</b>
<b>55</b>
<b>390</b>

SHEET NO.	631	631	632	632	632	632	632	632	632	632	632	632	632	632	632	632	632	632	632	632	632	632	632	632
	CHANGEABLE MESSAGE SIGN, UNLIMITED MESSAGE, AS PER PLAN A	CHANGEABLE MESSAGE SIGN, UNLIMITED MESSAGE, AS PER PLAN B	WOOD POLE	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE INSTALLED IN EXISTING CONDUIT	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 FIBERS, DIRECT BURY	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 FIBERS	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, SINGLE-MODE 6	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, SINGLE-MODE 36	INTERCONNECT CABLE, MISC.: MULTI-CONDUCTOR CABLE	INTERCONNECT, MISC.: HIGHWAY ADVISORY RADIO	INTERCONNECT, MISC.: FIBER OPTIC PATCH PANEL (6)	INTERCONNECT, MISC.: FIBER OPTIC PATCH PANEL (144)	INTERCONNECT, MISC.: FIBER OPTIC PATCH PANEL (36)	INTERCONNECT, MISC.: FIBER OPTIC SPLICER ENCLOSURE ASSEMBLY	INTERCONNECT, MISC.: INNERDUCT, 1"	INTERCONNECT, MISC.: WIRELESS COMMUNICATION ASSEMBLY	WOOD POLE, AS PER PLAN, 35 FT. CLASS C ASSEMBLY	SIGNALIZATION, MISC.: CCTV POLE CAMERA ASSEMBLY	SIGNALIZATION, MISC.: CCTV POLE FOUNDATION, TYPE A (70 FT.)	SIGNALIZATION, MISC.: CCTV POLE, TYPE A, (70 FT.), WITH LOWERING DEVICE	SIGNALIZATION, MISC.: EXISTING HIGHWAY ADVISORY RADIO TO BE REMOVED FOR STORAGE	SIGNALIZATION, MISC.: VEHICLE DETECTION ASSEMBLY	SIGNALIZATION, MISC.: TRANSFORMER, GENERAL-PURPOSE, 7.5KVA, NON-VENTILATED TYPE	SIGNALIZATION, MISC.: TRANSFORMER, GENERAL-PURPOSE, 25KVA, NON-VENTILATED TYPE
	EACH	EACH	EACH	FT	FT	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
164																								
165					1946	420																		
166						3121	284			2			2				2	2	2		1			
167					1634	1071																		
168					980	1942	65			1			1				1	1	1					
169					3315	225																		
170					25	2340																		
171					1777	300																		
172					2448	244																		
173	1				1892	1476	130			2			2				1	1	1		1			
174					817	2067	44			2			2				2	2	2					
175					577	2886																		
176					629	2286	65			1			1				1	1	1					
177					2370	727	65			1			1				1	1	1		1			
178					2912	98																		
179	1				1572	1316	183	90		2			2				1	1	1					
180					2272	1149		65				1	1				1	1	1					
181					2546	194																		
182					1905	1237																		
183					1420	1177	325			1			1				1	1	1					
184					3634	212	65			1			1				1	1	1					
185																								
186					3674	217	65			1			1				1	1	1					
187					678	1534																		
188					2545	304																		
189					3528	195		221				1	1				1	1	1					
190					920	502																		
191					2833	177	120			1			1				1	1	1					
192					50	1872																		
193					3457																			
194	1				2097		293		184	1			2				1	1	1		1			
195																	1	1	1					
196		1																						
<b>SUBTOTALS THIS SHEET</b>																								
3	1	0	0	54453	31189	1704	376	184	0	16	0	2	19	0	0	0	17	17	17	0	4	0	0	0
<b>SUBTOTALS SHEET 50</b>																								
3	4	1	0	77394	57320	2197	260	1254	1	19	0	5	26	313	2	0	26	26	26	1	8	1	2	
<b>SUBTOTALS SHEET 53</b>																								
7	0	1	531	119361	32766	4211	1260	580	1	24	2	3	28	0	0	1	21	21	21	1	7	0	0	
<b>TOTALS CARRIED TO THE GENERAL SUMMARY</b>																								
13	5	2	531	251208	121275	8112	1896	2018	2	59	2	10	73	313	2	1	64	64	64	2	19	1	2	












CALCULATED	PPA																							
	CHECKED																							
JTS																								
<b>ITS SUBSUMMARY</b>																								
<b>STA-SUM ITS</b>																								
56 390																								



**LEGEND**

	DMS TRUSS WITH ITS CABINET AND WORK PAD, APP
	EXISTING OVERHEAD TRUSS
	WIRELESS CDMA DMS TRUSS WITH ITS CABINET AND WORK PAD
	EXISTING OVERHEAD CANTILEVER
	CCTV WITH ITS CABINET AND WORK PAD, APP
	CCTV WITH VEHICLE DETECTOR, ITS CABINET AND WORK PAD, APP
	WIRELESS CCTV WITH VEHICLE DETECTOR, ITS CABINET AND WORK PAD, APP
	WIRELESS CCTV WITH ITS CABINET AND WORK PAD, APP
	T-1 CONNECTED CCTV WITH ITS CABINET AND WORK PAD, APP
	DMS PEDESTAL WITH ITS CABINET AND WORK PAD, APP
	WIRELESS CDMA DMS PEDESTAL WITH ITS CABINET AND WORK PAD, APP
	PULL BOX, 725.08, 18"
	PULL BOX, 725.08, 32" OR 48"
	STRUCTURE JUNCTION BOX, APP
	EXISTING PULL BOX
	EXISTING HAR
	GUARDRAIL END TREATMENT
	WOOD POLE, 35', TYPE C
	EXISTING LIGHTING CONTROLLER
	EXISTING ELECTRICAL UTILITY POLE
	POWER SERVICE, OR 45' WOOD POLE, OR PROPOSED UTILITY INSTALLED BY UTILITY, AS PER PLAN
	EXISTING FLASHER POLE
	CONCRETE BARRIER WALL
	NOISE WALL
	EXISTING GUARDRAIL
	PROPOSED GUARDRAIL

**LEGEND**

	FIBER OPTIC CABLE
	FIBER OPTIC CABLE IN CONDUIT, DIRECTIONAL BORED
	FIBER OPTIC CABLE IN CONDUIT ATTACHED TO STRUCTURE
	FIBER OPTIC CABLE IN CONDUIT ATTACHED TO CONCRETE WALL
	FIBER OPTIC CABLE IN CONDUIT, TRENCHED
	MULTI-CONDUCTOR CABLE
	ELECTRICAL DUCT CABLE IN TRENCH
	ELECTRICAL DUCT CABLE IN CONDUIT, DIRECTIONAL BORED
	ELECTRICAL AERIAL CABLE
	ELECTRICAL DUCT CABLE IN CONDUIT ON STRUCTURE
	EXISTING ELECTRICAL

**ABBREVIATIONS**

CCTV	CLOSED CIRCUIT TELEVISION
DMS	DYNAMIC MESSAGE SIGN
VD	VEHICLE DETECTOR
FO	FIBER OPTIC
HAR	HIGHWAY ADVISORY RADIO

**DEFINITIONS**

BEHIND GUARDRAIL: MEASURE DISTANCE FROM BACK OF GUARDRAIL POST

EDGE LINE: MEASURED AT THE POINT FROM THE EDGE OF TRAVELED WAY

PROP. PULL BOX, 725.08: 18", PB1  
S.L.M. 207.99, 145' LT.

PROP. PULL BOX, 725.08: 18", PB2  
S.L.M. 208.00, 76' LT.

PROP. PULL BOX, 725.08: 18", PB3  
S.L.M. 208.00, 76' RT.

PROP. PULL BOX, 725.08: 18" PB4  
S.L.M. 208.01, 101' RT.

VILLAGE OF WESTFIELD CENTER  
WESTFIELD TWP

UTILITY BY OHIO EDISON  
POWER SERVICE, TYPE C  
240/120V, 1PH, 100A DISCONNECT  
FUSED @30A

1/2" DUCT CABLE WITH 3-#2  
IN TRENCH

86'-1/2" DUCT CABLE WITH 3-#2  
IN TRENCH

154' - 3" SCH. 80 CONDUIT  
1/2" DUCT CABLE WITH 3-#2

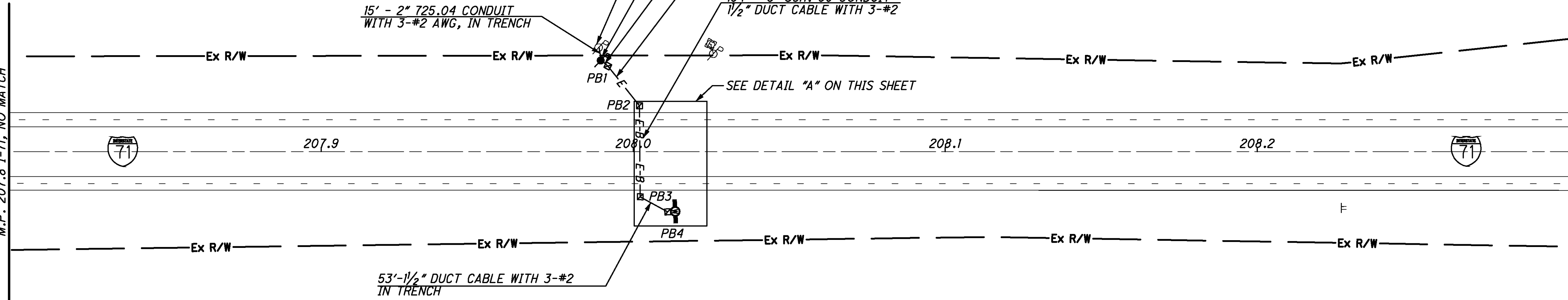
15' - 2" 725.04 CONDUIT  
WITH 3-#2 AWG, IN TRENCH

SEE DETAIL "A" ON THIS SHEET

53'-1/2" DUCT CABLE WITH 3-#2  
IN TRENCH

M.P. 207.8 I-71, NO MATCH

M.P. 208.3 I-71, NO MATCH



DETAIL "A" - 20 SCALE

PROP. PULL BOX, 725.08: 18", PB2  
S.L.M. 208.00, 76' LT.

I-71 SOUTHBOUND

CL I-71

I-71 NORTHBOUND

PROP. PULL BOX, 725.08: 18", PB3  
S.L.M. 208.00, 76' RT.

PROP. PULL BOX, 725.08: 18" PB4  
S.L.M. 208.01, 101' RT.

PROP. WIRELESS CDMA DMS DEVICE # 071002  
WITH WORK PAD APP  
S.L.M. 208.01, 101' RT.

1/2" DUCT CABLE WITH 3-#2  
IN TRENCH

REFER TO SHEET 25 FOR TYPICAL DMS DETAILS  
REFER TO SHEET 285 FOR COMMUNICATION DETAILS

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CALCULATED STS  
CHECKED JDG

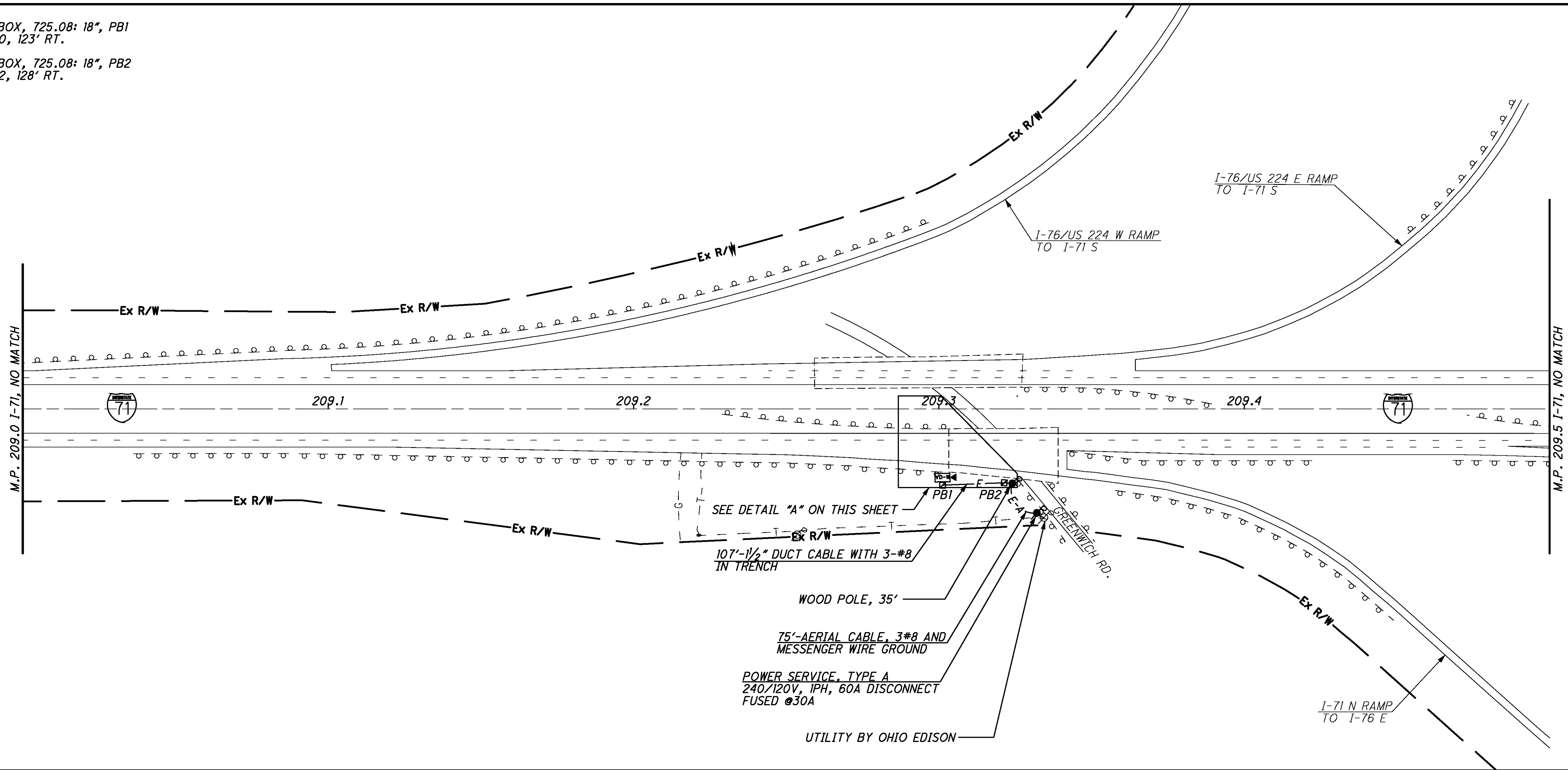
HORIZONTAL SCALE IN FEET

I-71 S. OF I-76 (MP 207.8 TO MP 208.3)  
WESTFIELD TOWNSHIP, MEDINA COUNTY

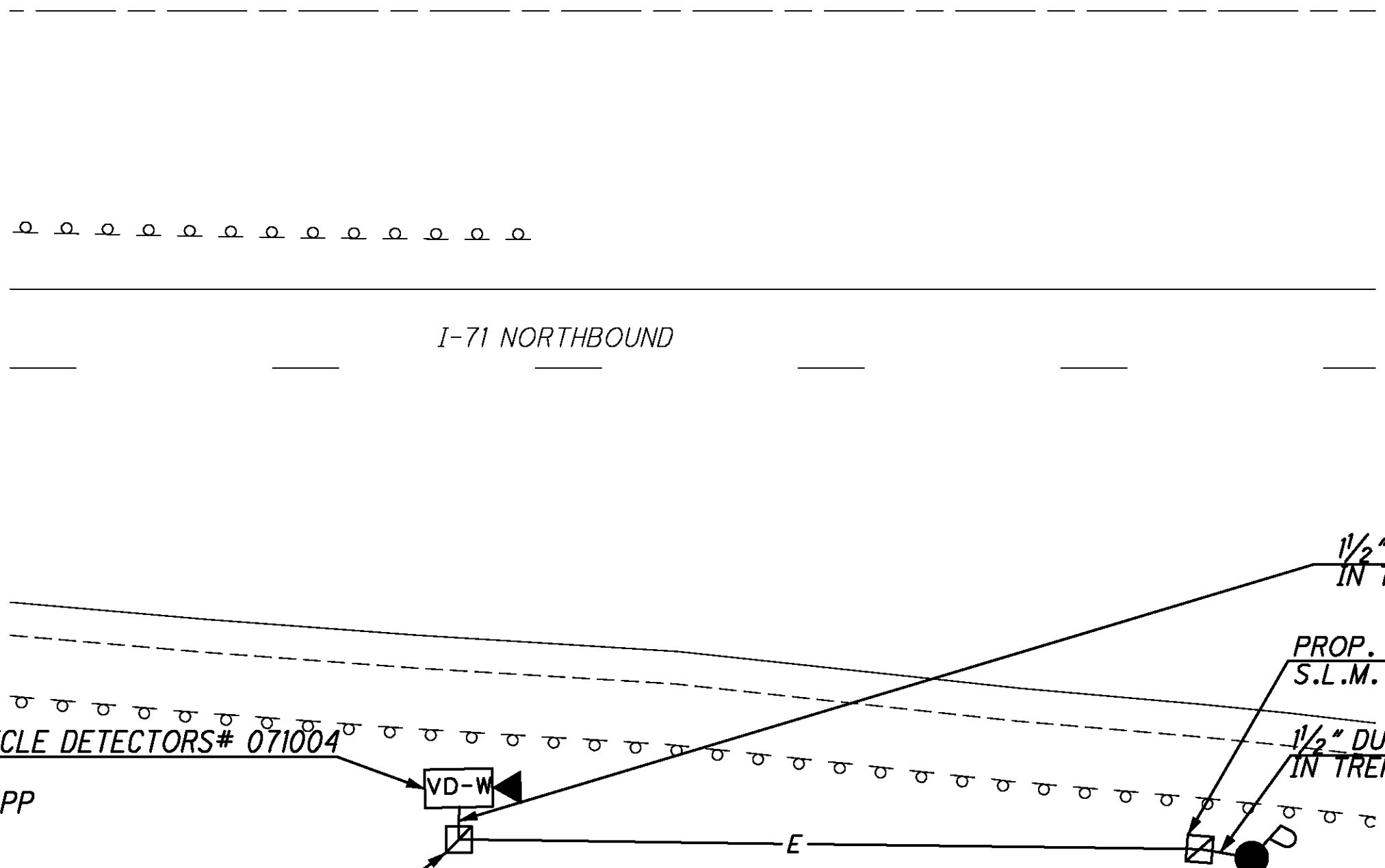
STA-SUM ITS

PROP. PULL BOX, 725.08: 18", PB1  
S.L.M. 209.30, 123' RT.

PROP. PULL BOX, 725.08: 18", PB2  
S.L.M. 209.32, 128' RT.



DETAIL "A" - 20 SCALE



REFER TO SHEET 24 FOR TYPICAL CCTV WITH TWO VEHICLE DETECTORS DETAILS  
REFER TO SHEET 286 FOR COMMUNICATION DETAILS

CALCULATED STS CHECKED JDG

0 50 100 200  
HORIZONTAL SCALE IN FEET

I-71 AT I-76 (MP 209.0 TO MP 209.5)  
WESTFIELD TOWNSHIP, MEDINA COUNTY

STA-SUM ITS

59  
390

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PROP. WIRELESS CCTV DEVICE WITH TWO VEHICLE DETECTORS # 071004  
POLE, TYPE A, 70', WITH LOWERING DEVICE  
POLE FOUNDATION, TYPE A WITH WORK PAD APP  
S.L.M. 209.30, 118' RT.

PROP. PULL BOX, 725.08: 18", PB1  
S.L.M. 209.30, 123' RT.

CCTV 071004

PROP. PULL BOX, 725.08: 18", PB1  
US-224 S.L.M. 15.46, 90' RT.

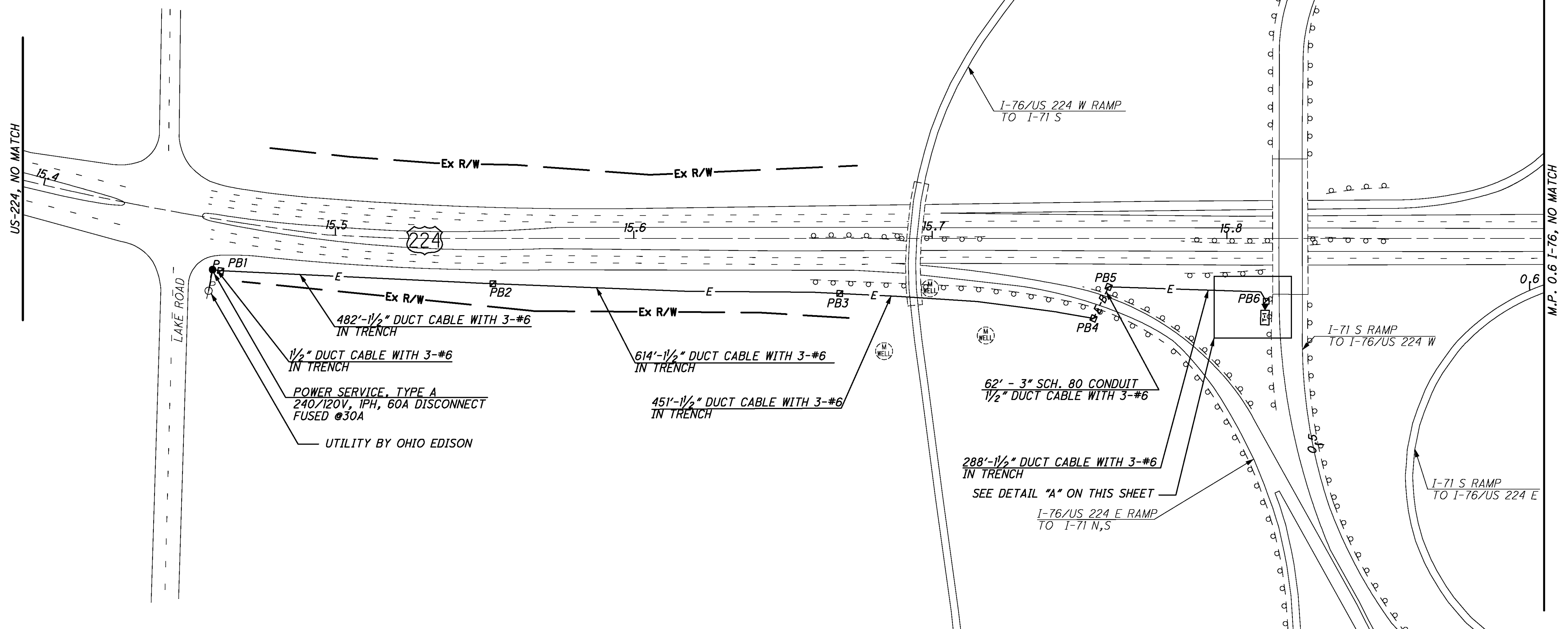
PROP. PULL BOX, 725.08: 18", PB2  
US-224 S.L.M. 15.55, 80' RT.

PROP. PULL BOX, 725.08: 18", PB3  
US-224 S.L.M. 15.67, 98' RT.

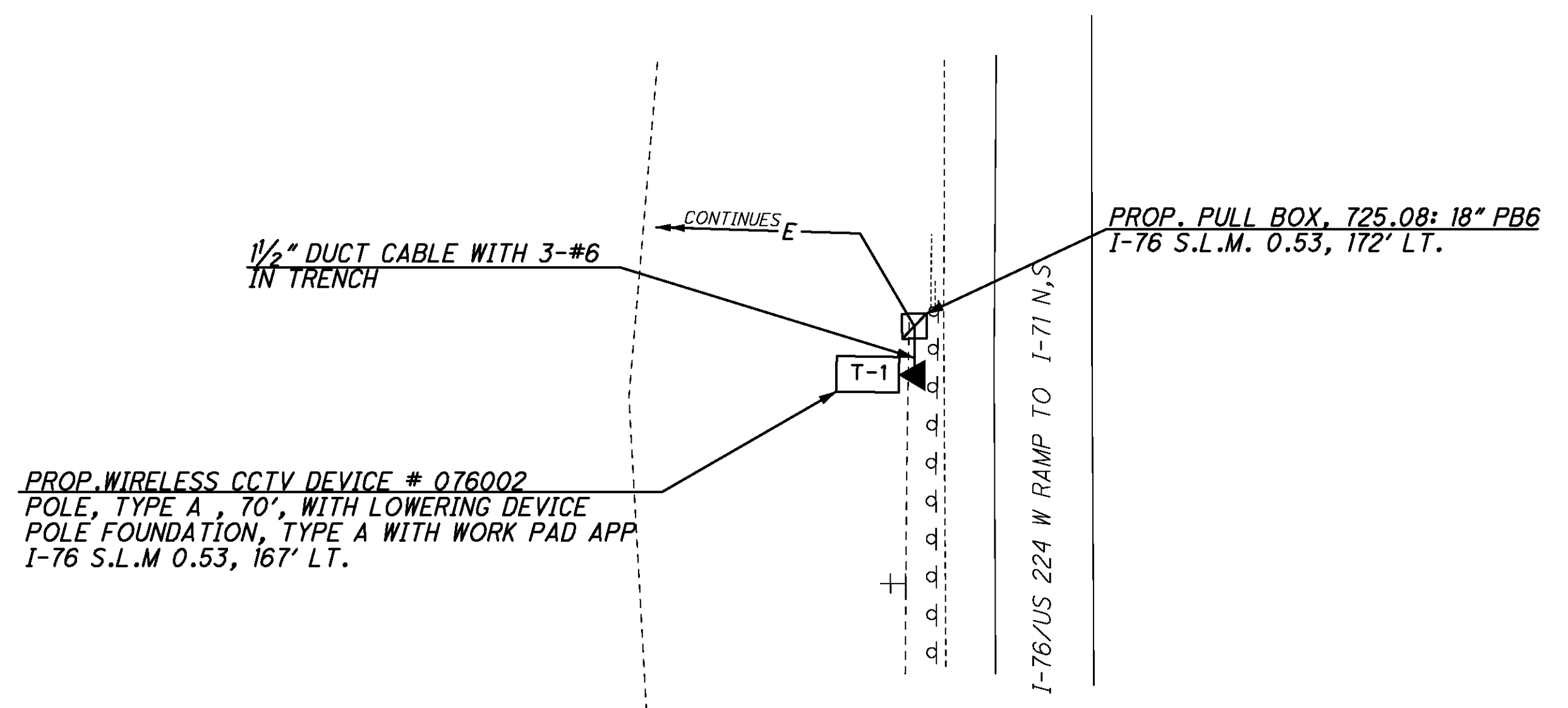
PROP. PULL BOX, 725.08: 18" PB4  
US-224 S.L.M. 15.75, 142' RT.

PROP. PULL BOX, 725.08: 18" PB5  
US-224 S.L.M. 15.75, 86' RT.

PROP. PULL BOX, 725.08: 18" PB6  
US-224 S.L.M. 15.81, 110' RT.



DETAIL "A" - 20 SCALE



REFER TO SHEET 23 FOR TYPICAL CCTV DETAILS  
REFER TO SHEET 287 FOR COMMUNICATION DETAILS

CALCULATED STS  
CHECKED JDG

0 50 100 200  
HORIZONTAL SCALE IN FEET

US-224/I-76 AT I-71 (MP 15.4-15.8 / MP 0.4-0.6)  
WESTFIELD TOWNSHIP, MEDINA COUNTY

STA - SUM ITS

60  
390

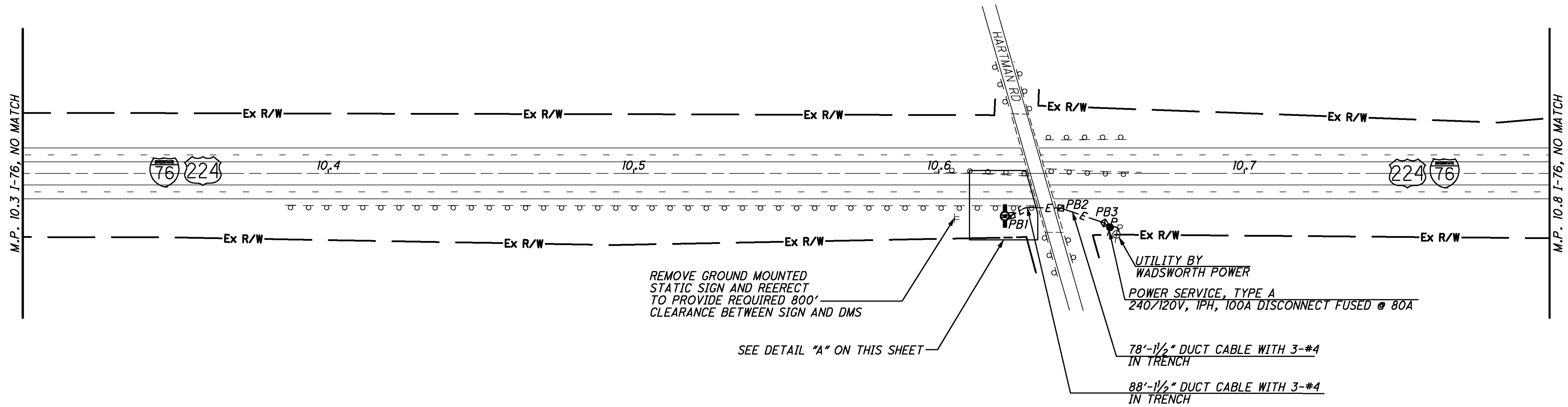
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PROP. PULL BOX, 725.08: 18", PB1  
S.L.M. 10.62, 74' RT.

PROP. PULL BOX, 725.08: 18", PB2  
S.L.M. 10.64, 60' RT.

PROP. PULL BOX, 725.08: 18", PB3  
S.L.M. 10.65, 86' RT.



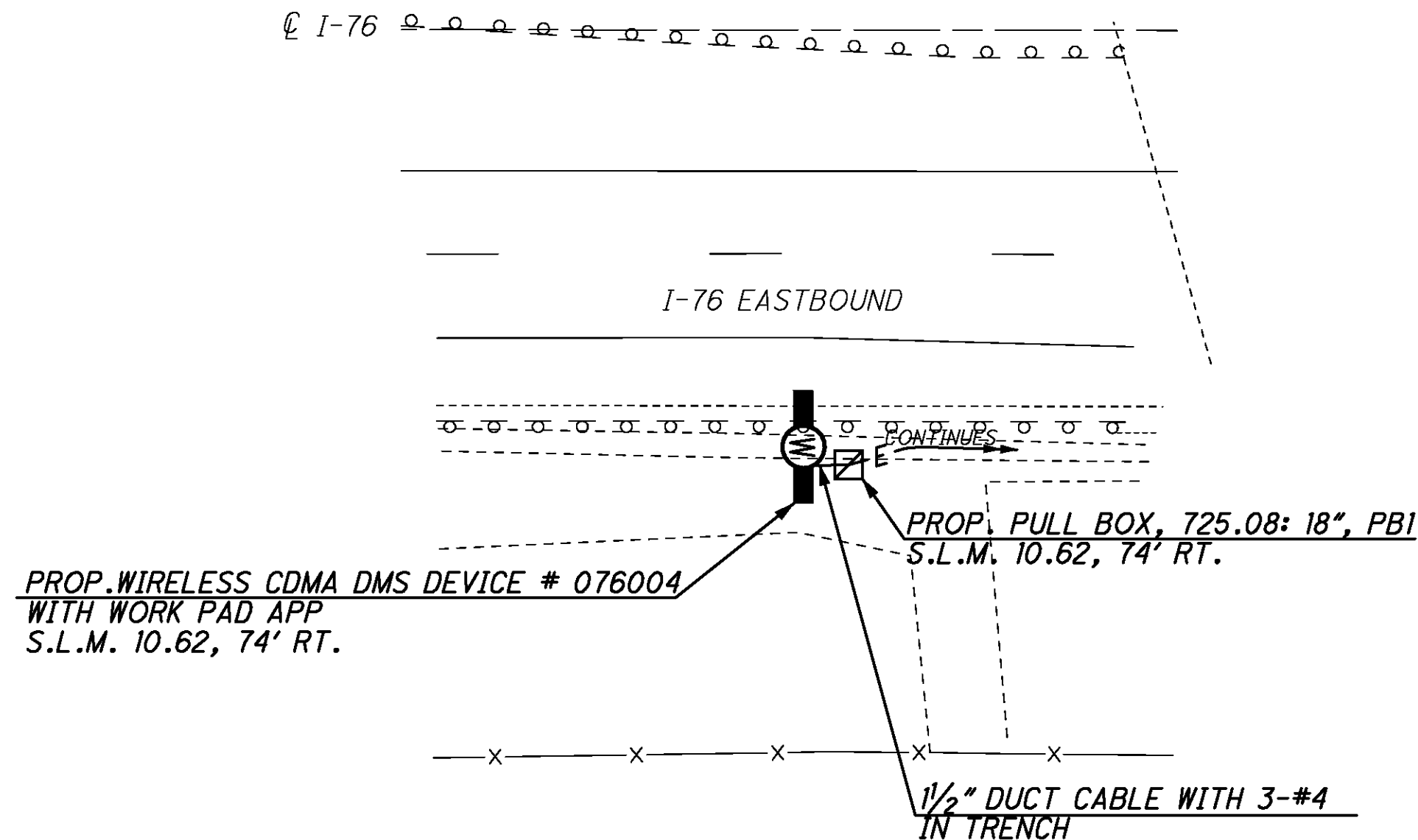
REMOVE GROUND MOUNTED  
STATIC SIGN AND REERECT  
TO PROVIDE REQUIRED 800'  
CLEARANCE BETWEEN SIGN AND DMS

SEE DETAIL "A" ON THIS SHEET

UTILITY BY  
WADSWORTH POWER  
POWER SERVICE, TYPE A  
240/120V, 1PH, 100A DISCONNECT FUSED @ 80A

78'-1/2" DUCT CABLE WITH 3-#4  
IN TRENCH  
88'-1/2" DUCT CABLE WITH 3-#4  
IN TRENCH

DETAIL "A" - 20 SCALE



REFER TO SHEET 25 FOR TYPICAL DMS DETAILS  
REFER TO SHEET 288 FOR COMMUNICATION DETAILS

CALCULATED STS CHECKED JDG

HORIZONTAL SCALE IN FEET

I-76 AT HARTMAN RD (MP 10.3 TO MP 10.8)  
WADSWORTH TOWNSHIP, MEDINA COUNTY

STA - SUM ITS

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PROP. PULL BOX, 725.08: 18", PB1  
S.L.M. 13.42, 75' LT.

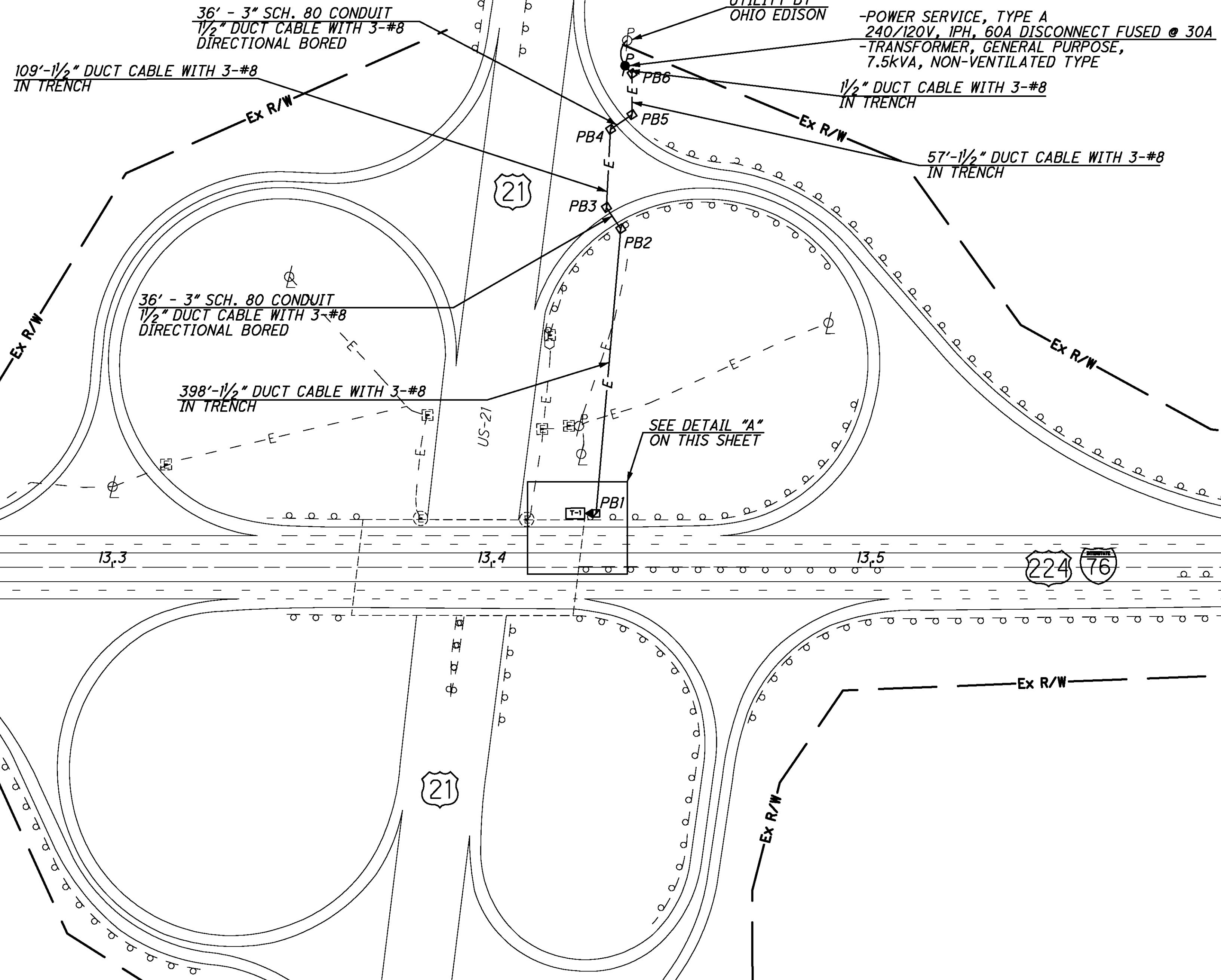
PROP. PULL BOX, 725.08: 18", PB2  
S.L.M. 13.43, 470' LT.

PROP. PULL BOX, 725.08: 18", PB3  
S.L.M. 13.43, 501' LT.

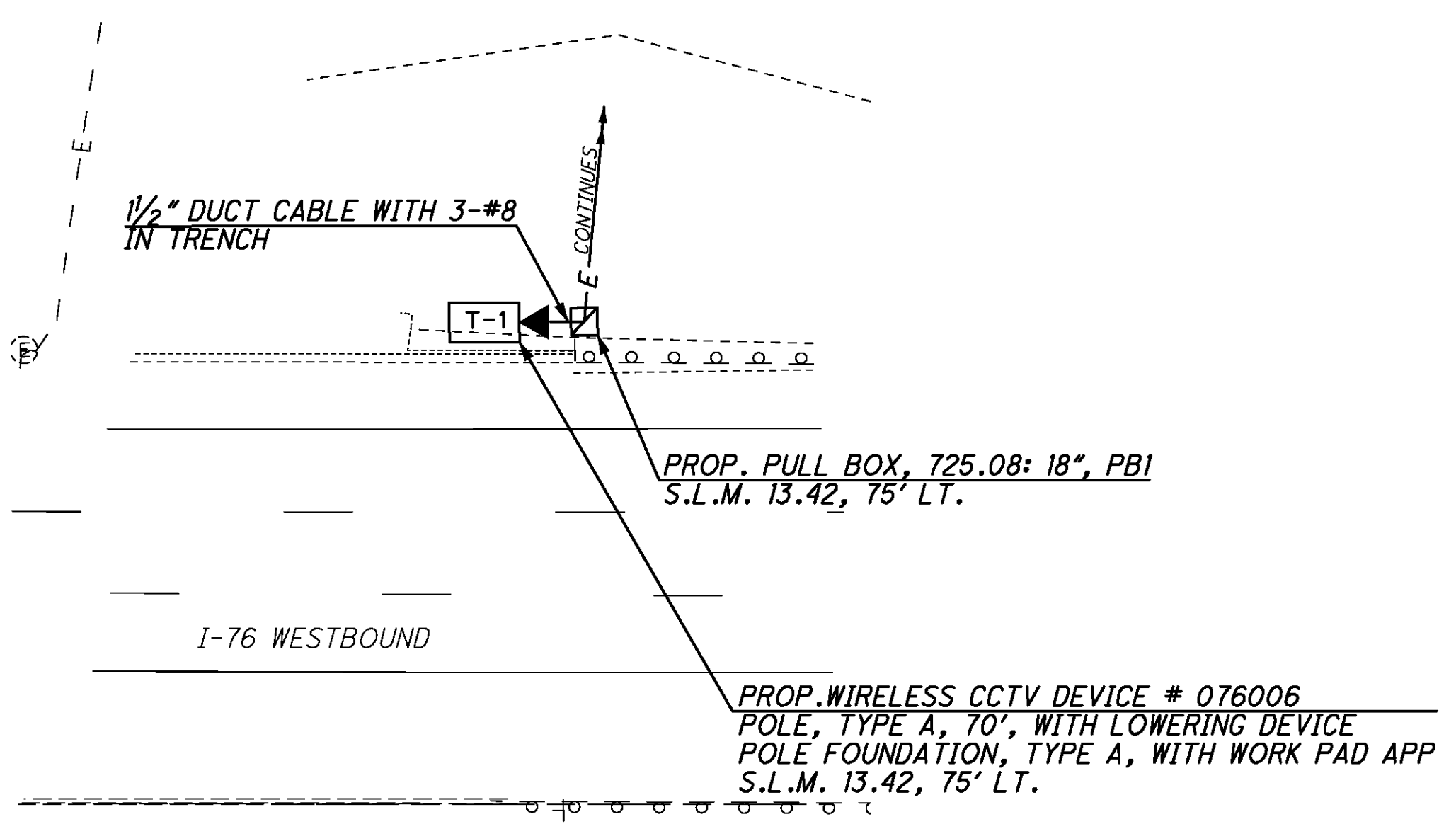
PROP. PULL BOX, 725.08: 18" PB4  
S.L.M. 13.43, 610' LT.

PROP. PULL BOX, 725.08: 18" PB5  
S.L.M. 13.44, 630' LT.

PROP. PULL BOX, 725.08: 18" PB6  
S.L.M. 13.44, 688' LT.



DETAIL "A" - 20 SCALE



REFER TO SHEET 23 FOR TYPICAL CCTV DETAILS  
REFER TO SHEET 289 FOR COMMUNICATION DETAILS

CALCULATED STS CHECKED JDG

0 50 100 200  
HORIZONTAL SCALE IN FEET

I-76 AT US-21 (MP 13.1 TO MP 13.6)  
CITY OF NORTON, SUMMIT COUNTY

STA-SUM ITS

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PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 16.82, 73' RT.

PROP. PULL BOX, 725.08: 18", PB2  
S.L.M. 16.82, 77' RT.

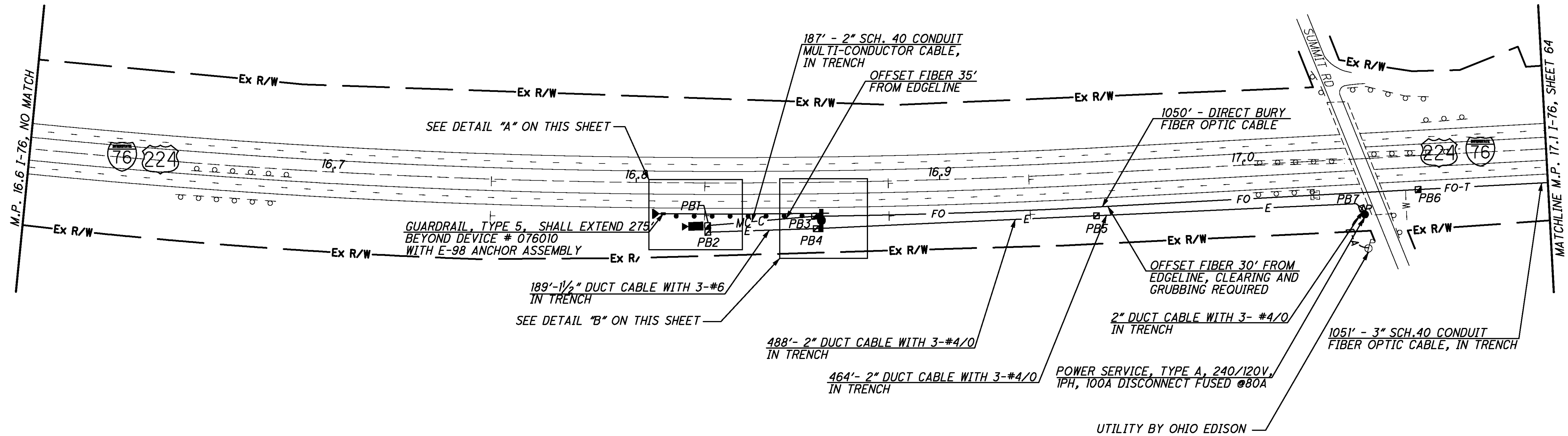
PROP. PULL BOX, 725.08: 48", PB3  
WITH SPLICE ASSEMBLY  
S.L.M. 16.86, 63' RT.

PROP. PULL BOX, 725.08: 18" PB4  
S.L.M. 16.86, 69' RT.

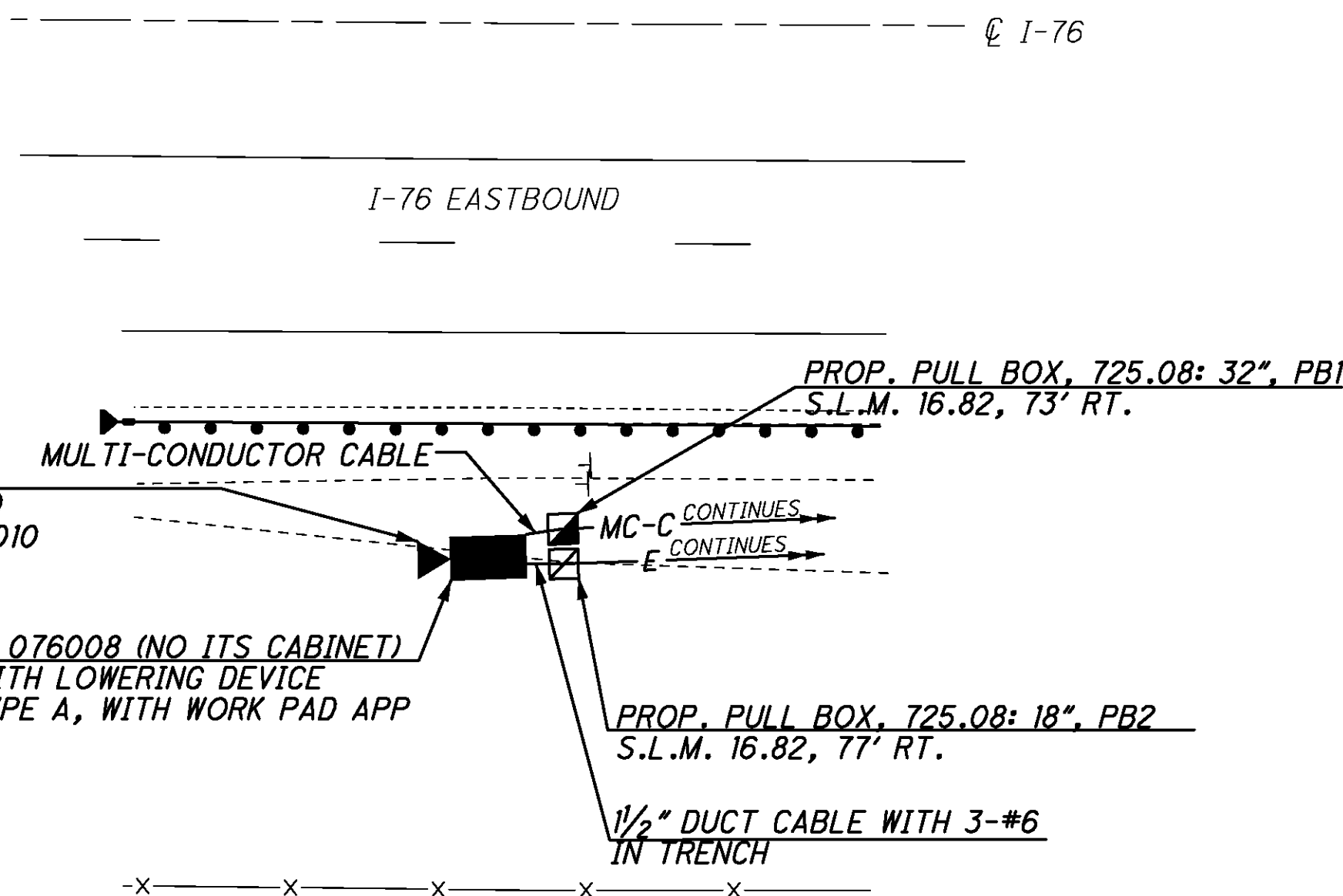
PROP. PULL BOX, 725.08: 18" PB5  
S.L.M. 16.95, 74' RT.

PROP. PULL BOX, 725.08: 32" PB6  
S.L.M. 17.06, 59' RT.

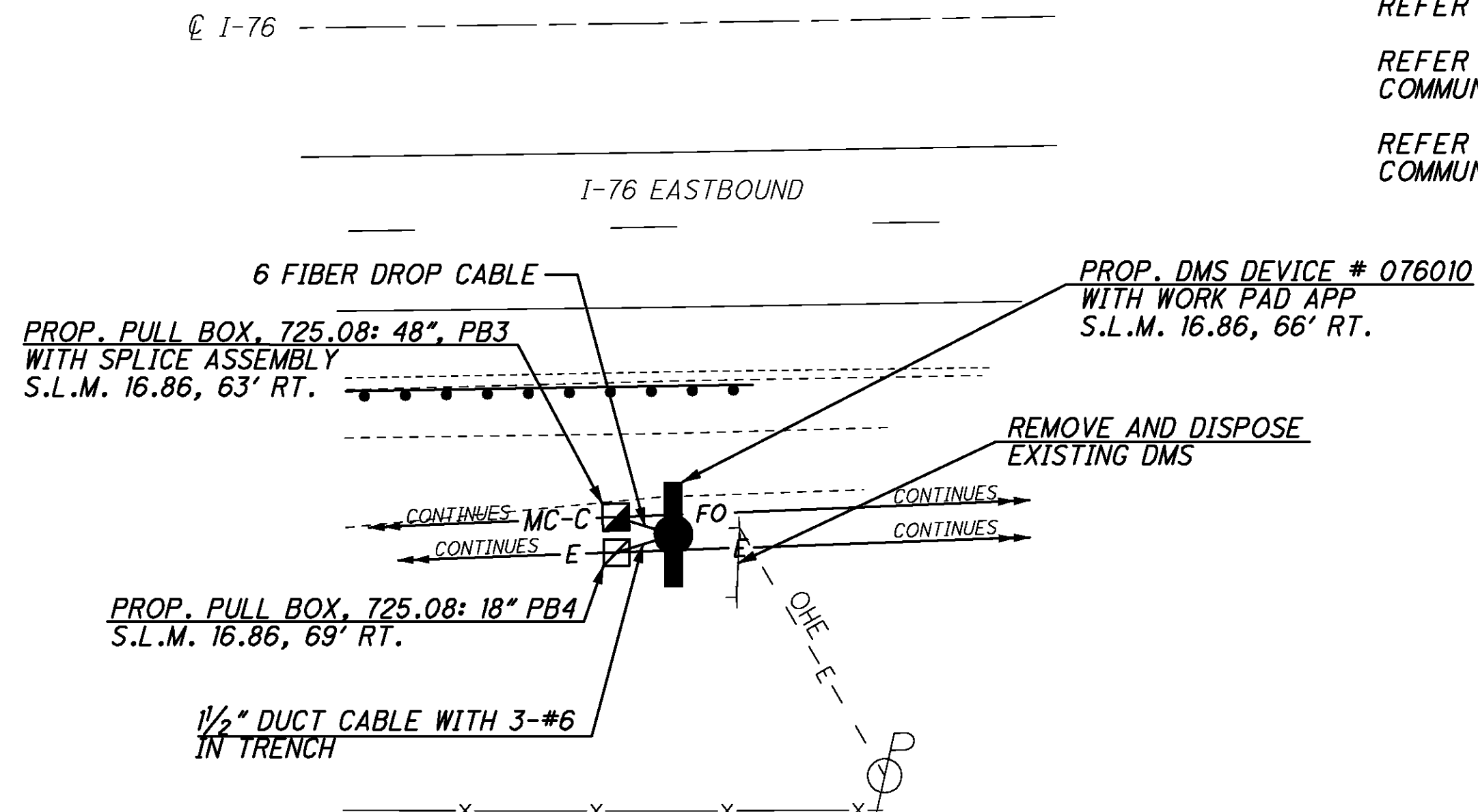
PROP. PULL BOX, 725.08: 18", PB7  
S.L.M. 17.04, 78' RT.



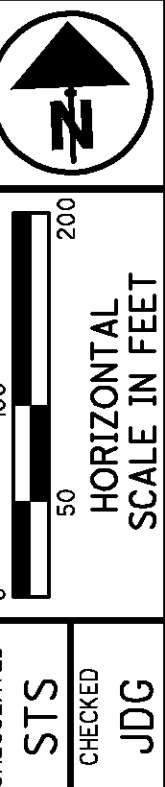
DETAIL "A" - 20 SCALE



DETAIL "B" - 20 SCALE



REFER TO SHEET 23 FOR TYPICAL CCTV DETAILS  
REFER TO SHEET 25 FOR TYPICAL DMS DETAILS  
REFER TO SHEET 290 FOR CCTV DEVICE NO. 076008 COMMUNICATION DETAILS  
REFER TO SHEET 290 FOR DMS DEVICE NO. 076010 COMMUNICATION DETAILS



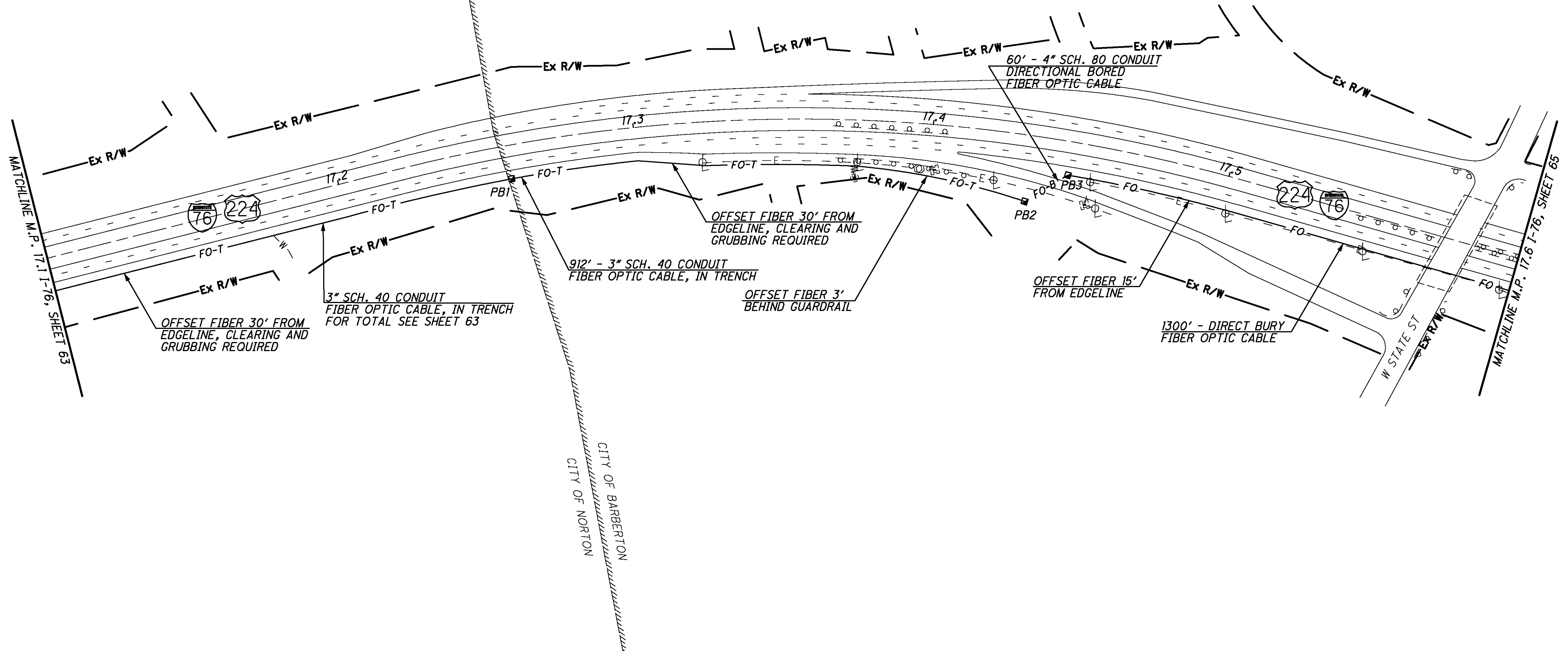
I-76 AT SUMMIT RD (MP 16.6 TO MP 17.1)  
CITY OF NORTON, SUMMIT COUNTY

STA-SUM ITS

PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 17.26, 59' RT.

PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 17.43, 116' RT.

PROP. PULL BOX, 725.08: 32", PB3  
S.L.M. 17.45, 59' RT.



MATCHLINE M.P. 17.1 I-76, SHEET 63

MATCHLINE M.P. 17.6 I-76, SHEET 65

CITY OF BARBERTON  
CITY OF NORTON

NO FIELD DEVICE ON THIS SHEET

CALCULATED STS  
CHECKED JDG

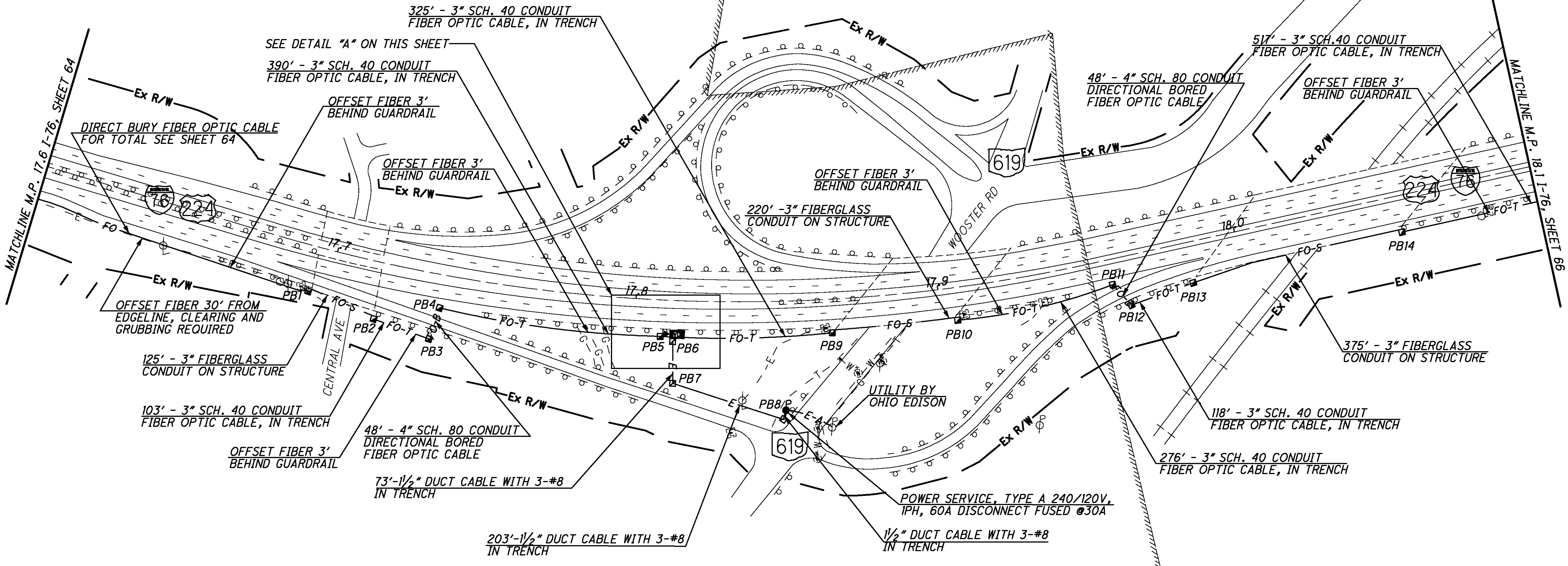
0 50 100 200  
HORIZONTAL SCALE IN FEET

I-76 AT STATE ST (MP 17.1 TO MP 17.6)  
CITY OF BARBERTON, SUMMIT COUNTY

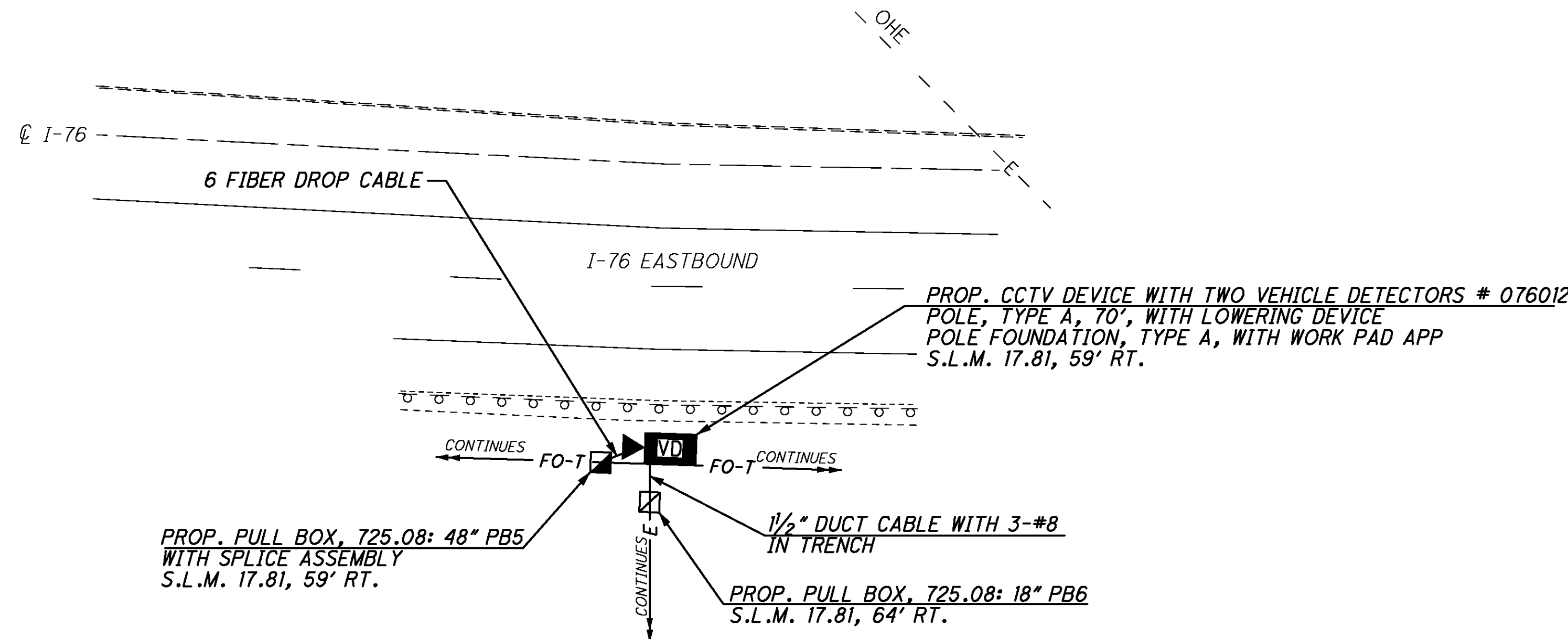
STA-SUM ITS

64  
390

- PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 17.69, 80' RT.
- PROP. PULL BOX, 725.08: 18", PB7  
S.L.M. 17.81, 145' RT.
- PROP. PULL BOX, 725.08: 32", PB13  
S.L.M. 17.98, 72' RT.
- PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 17.72, 100' RT.
- PROP. PULL BOX, 725.08: 18", PB8  
S.L.M. 17.85, 207' RT.
- PROP. PULL BOX, 725.08: 32", PB14  
S.L.M. 18.05, 64' RT.
- PROP. PULL BOX, 725.08: 32", PB3  
S.L.M. 17.74, 115' RT.
- PROP. PULL BOX, 725.08: 32", PB9  
S.L.M. 17.86, 59' RT.
- PROP. PULL BOX, 725.08: 32" PB4  
S.L.M. 17.74, 58' RT.
- PROP. PULL BOX, 725.08: 32" PB10  
S.L.M. 17.91, 57' RT.
- PROP. PULL BOX, 725.08: 48" PB5  
WITH SPLICE ASSEMBLY  
S.L.M. 17.81, 59' RT.
- PROP. PULL BOX, 725.08: 32" PB11  
S.L.M. 17.96, 44' RT.
- PROP. PULL BOX, 725.08: 18" PB6  
S.L.M. 17.81, 64' RT.
- PROP. PULL BOX, 725.08: 32" PB12  
S.L.M. 17.96, 86' RT.



DETAIL "A" - 20 SCALE



- REFER TO SHEET 13 FOR TYPICAL CONDUIT ATTACHED TO STRUCTURE DETAILS
- REFER TO SHEET 24 FOR TYPICAL CCTV WITH TWO VEHICLE DETECTORS DETAILS
- REFER TO SHEET 200 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR BRIDGE OVER CENTRAL AVE.
- REFER TO SHEET 201 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR BRIDGE OVER WOOSTER RD.
- REFER TO SHEET 202 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR BRIDGE OVER B&O RR
- REFER TO SHEET 291 FOR COMMUNICATION DETAILS

CCTV 076012

CALCULATED STS CHECKED JDG

0 50 100 200  
HORIZONTAL SCALE IN FEET

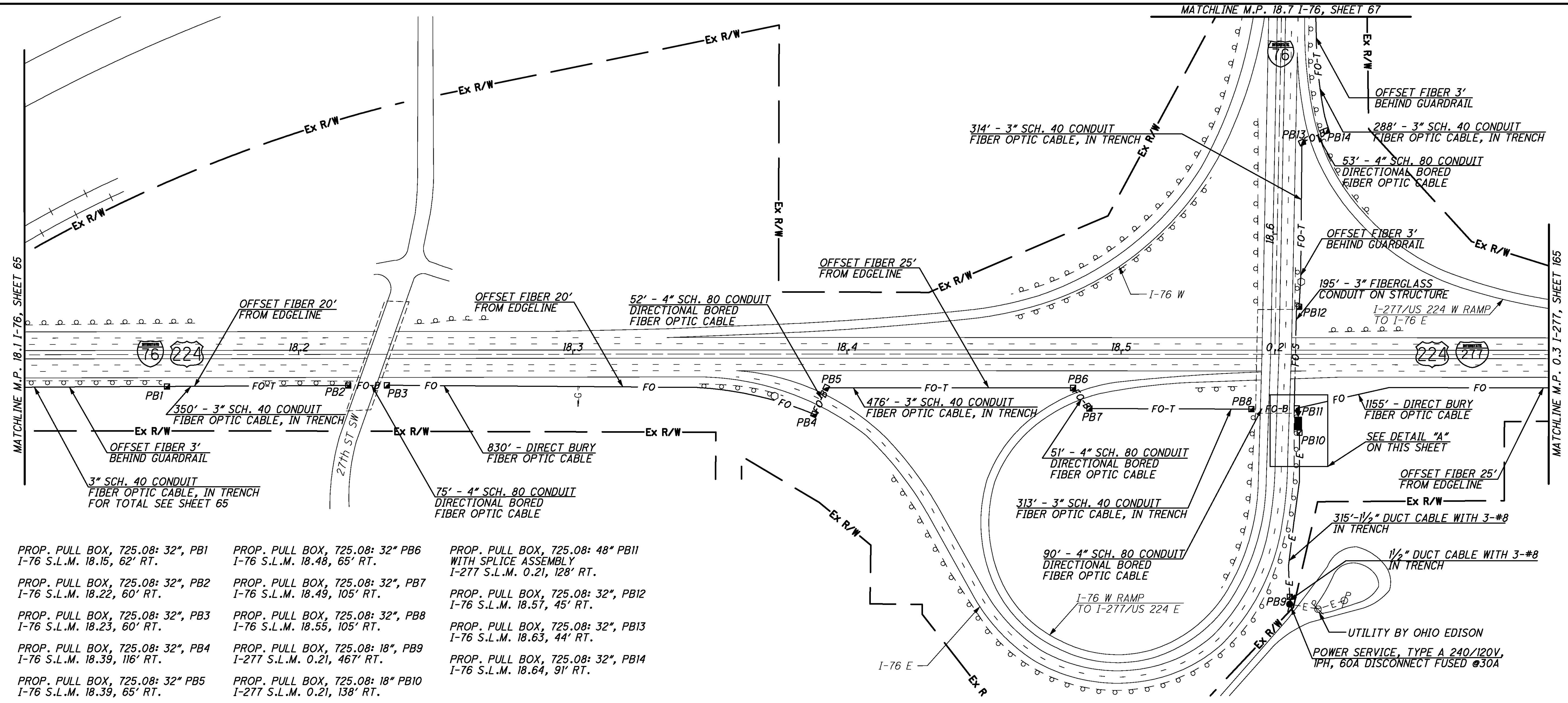
I-76 AT SR-619 (MP 17.6 TO MP 18.1)  
CITY OF BARBERTON, SUMMIT COUNTY

STA-SUM ITS

65  
390

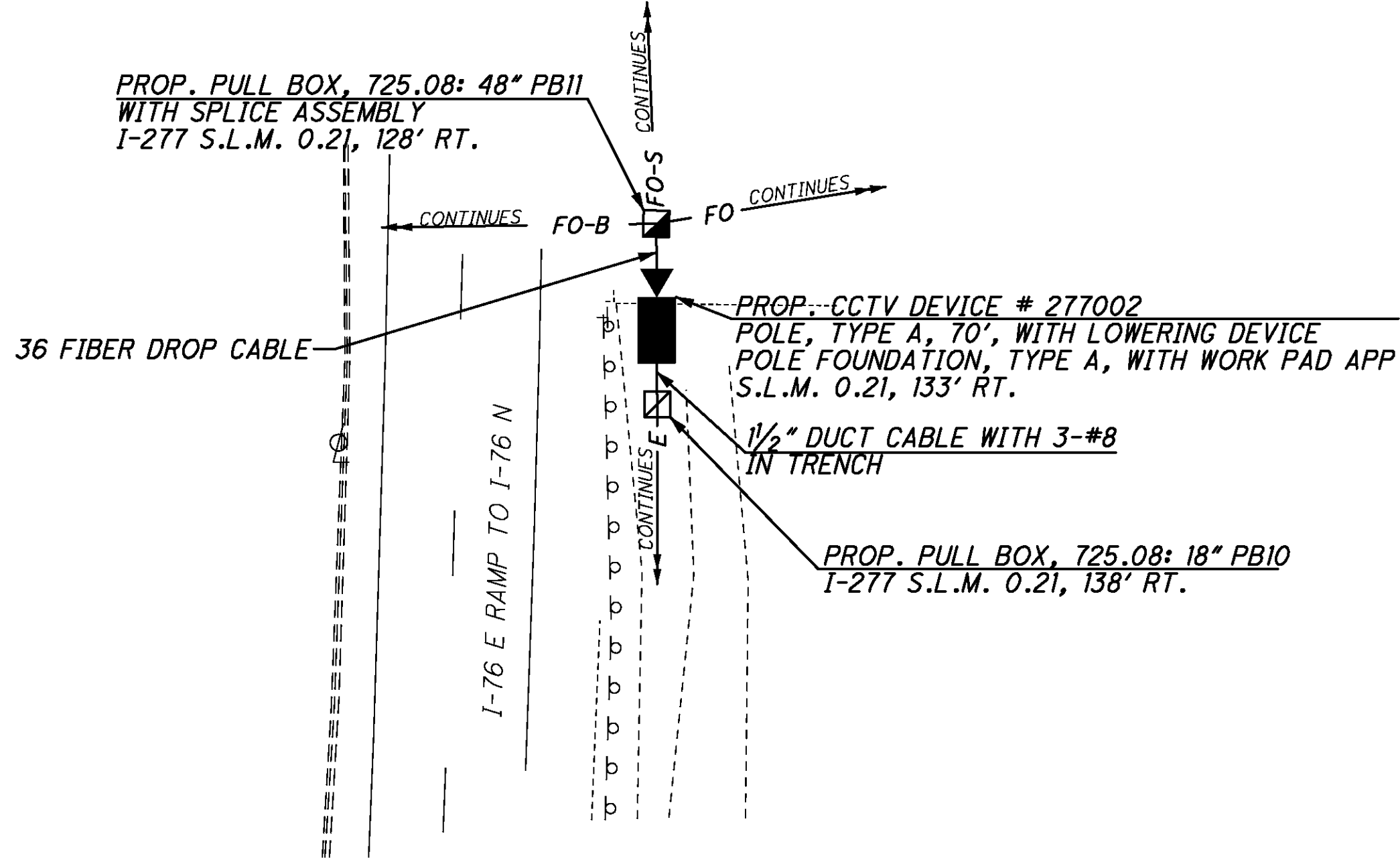


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- PROP. PULL BOX, 725.08: 32" PB1  
I-76 S.L.M. 18.15, 62' RT.
- PROP. PULL BOX, 725.08: 32" PB2  
I-76 S.L.M. 18.22, 60' RT.
- PROP. PULL BOX, 725.08: 32" PB3  
I-76 S.L.M. 18.23, 60' RT.
- PROP. PULL BOX, 725.08: 32" PB4  
I-76 S.L.M. 18.39, 116' RT.
- PROP. PULL BOX, 725.08: 32" PB5  
I-76 S.L.M. 18.39, 65' RT.
- PROP. PULL BOX, 725.08: 32" PB6  
I-76 S.L.M. 18.48, 65' RT.
- PROP. PULL BOX, 725.08: 32" PB7  
I-76 S.L.M. 18.49, 105' RT.
- PROP. PULL BOX, 725.08: 32" PB8  
I-76 S.L.M. 18.55, 105' RT.
- PROP. PULL BOX, 725.08: 18" PB9  
I-277 S.L.M. 0.21, 467' RT.
- PROP. PULL BOX, 725.08: 18" PB10  
I-277 S.L.M. 0.21, 138' RT.
- PROP. PULL BOX, 725.08: 48" PB11  
WITH SPLICE ASSEMBLY  
I-277 S.L.M. 0.21, 128' RT.
- PROP. PULL BOX, 725.08: 32" PB12  
I-76 S.L.M. 18.57, 45' RT.
- PROP. PULL BOX, 725.08: 32" PB13  
I-76 S.L.M. 18.63, 44' RT.
- PROP. PULL BOX, 725.08: 32" PB14  
I-76 S.L.M. 18.64, 91' RT.

DETAIL "A" - 20 SCALE



REFER TO SHEET 13 FOR TYPICAL CONDUIT ATTACHED TO STRUCTURE DETAILS

REFER TO SHEET 23 FOR TYPICAL CCTV DETAILS

REFER TO SHEET 203 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR BRIDGE OVER INTERSTATE 277

REFER TO SHEETS 361-363 FOR COMMUNICATION DETAILS



0 50 100 200  
HORIZONTAL SCALE IN FEET

CALCULATED STS  
CHECKED JDG

**I-76 AT I-277 (MP 18.1 TO MP 18.7)**

**CITY OF AKRON, SUMMIT COUNTY**

STA-SUM ITS

66  
390

PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 18.69, 58' RT.

PROP. PULL BOX, 725.08: 32", PB7  
S.L.M. 19.02, 106' RT.

PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 18.74, 58' RT.

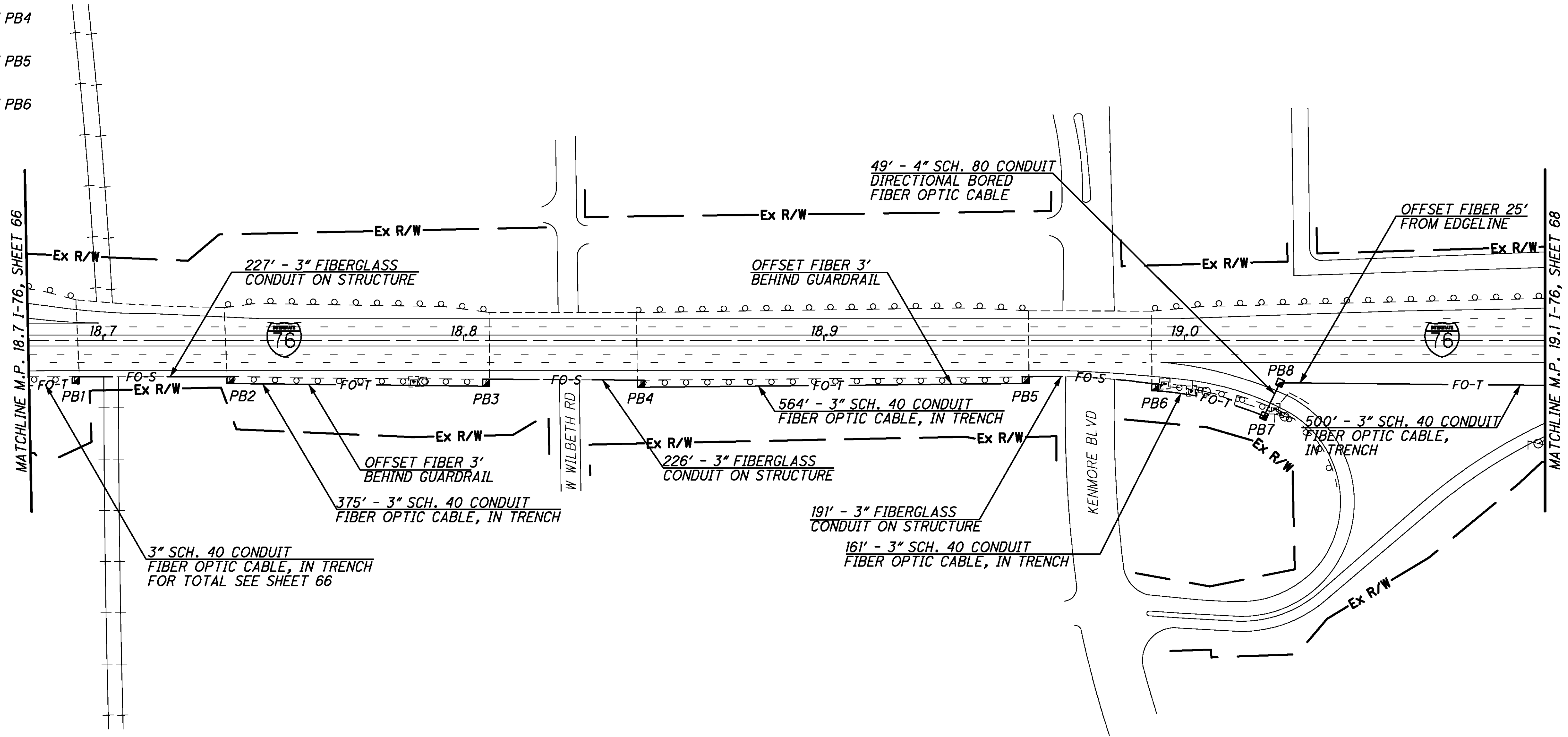
PROP. PULL BOX, 725.08: 32", PB8  
S.L.M. 19.03, 62' RT.

PROP. PULL BOX, 725.08: 32", PB3  
S.L.M. 18.81, 62' RT.

PROP. PULL BOX, 725.08: 32" PB4  
S.L.M. 18.85, 63' RT.

PROP. PULL BOX, 725.08: 32" PB5  
S.L.M. 18.96, 58' RT.

PROP. PULL BOX, 725.08: 32" PB6  
S.L.M. 18.99, 69' RT.



REFER TO SHEET 13 FOR TYPICAL CONDUIT ATTACHED TO STRUCTURE DETAILS

REFER TO SHEET 204 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR BRIDGE OVER CSX RR

REFER TO SHEET 205 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR BRIDGE OVER WILBETH ROAD

REFER TO SHEET 206 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR BRIDGE OVER KENMORE BLVD.

**NO FIELD DEVICE ON THIS SHEET**

CALCULATED STS CHECKED JDG

0 50 100 200  
HORIZONTAL SCALE IN FEET

North Arrow

**I-76 AT KENMORE BLVD (MP 18.7 TO MP 19.1)**  
**CITY OF AKRON, SUMMIT COUNTY**

STA-SUM ITS

67  
390

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PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 19.12, 67' RT.

PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 19.13, 104' RT.

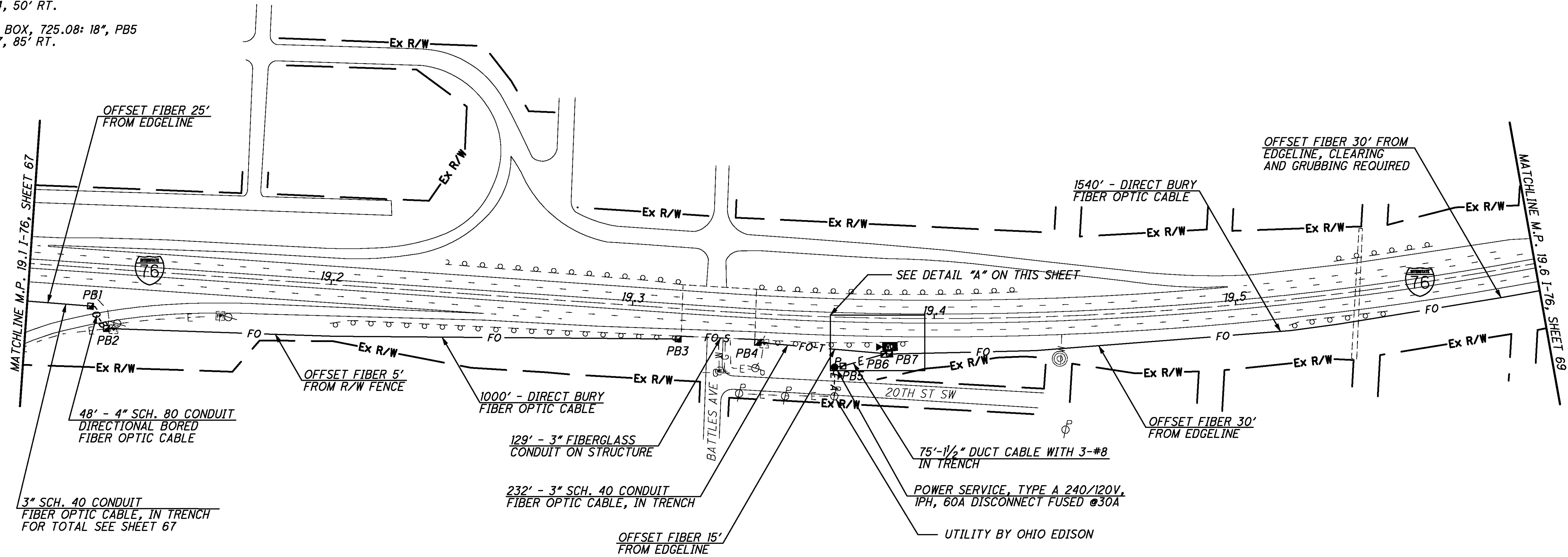
PROP. PULL BOX, 725.08: 32", PB3  
S.L.M. 19.32, 53' RT.

PROP. PULL BOX, 725.08: 32", PB4  
S.L.M. 19.34, 50' RT.

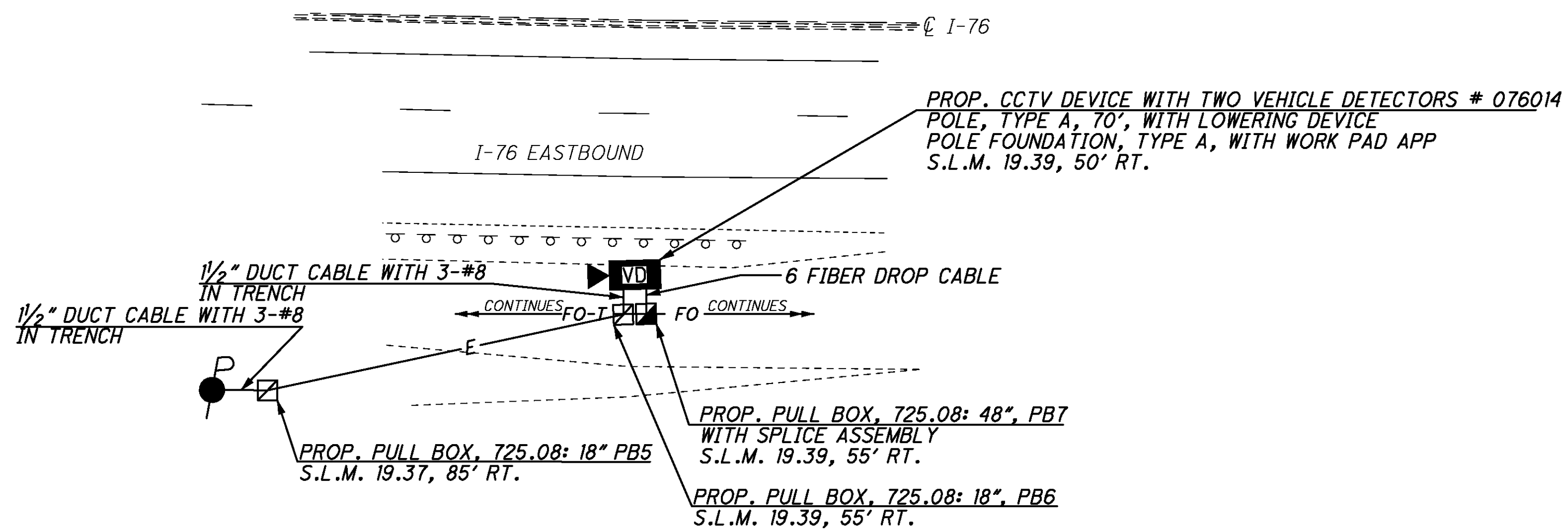
PROP. PULL BOX, 725.08: 18", PB5  
S.L.M. 19.37, 85' RT.

PROP. PULL BOX, 725.08: 18", PB6  
S.L.M. 19.39, 55' RT.

PROP. PULL BOX, 725.08: 48", PB7  
WITH SPLICE ASSEMBLY  
S.L.M. 19.39, 55' RT.



DETAIL "A" - 20 SCALE



REFER TO SHEET 13 FOR TYPICAL CONDUIT ATTACHED TO STRUCTURE DETAILS

REFER TO SHEET 24 FOR TYPICAL CCTV WITH TWO VEHICLE DETECTORS DETAILS

REFER TO SHEET 207 FOR CONDUIT ATTACHED TO STRUCTURE DETAIL FOR BRIDGE OVER BATTLES AVENUE

REFER TO SHEET 292 FOR COMMUNICATION DETAILS

CALCULATED STS  
CHECKED JDG

I-76 AT BATTLES AVE (MP 19.1 TO MP 19.6)  
CITY OF AKRON, SUMMIT COUNTY

STA-SUM ITS  
68  
390

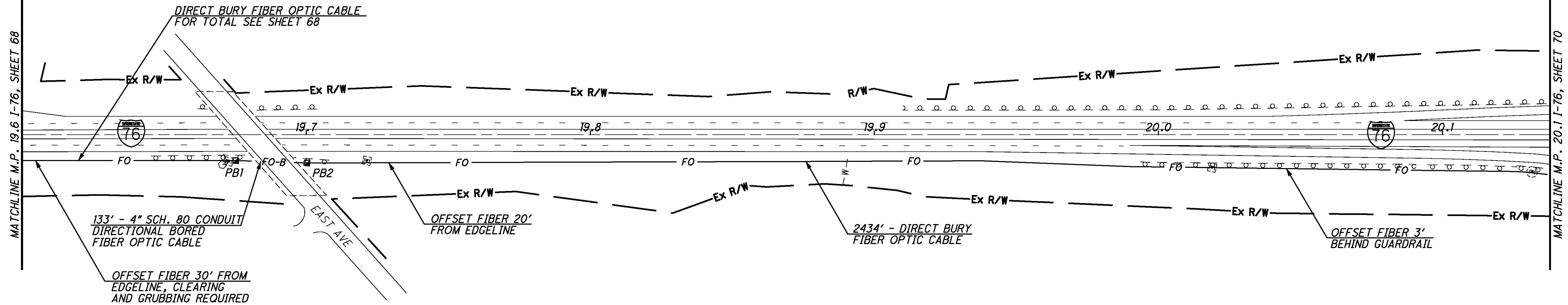
CCTV 076014

PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 19.68, 48' RT.

PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 19.70, 53' RT.



CALCULATED STS  
CHECKED JDG



NO FIELD DEVICE ON THIS SHEET

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I-76 AT EAST AVE (MP 19.6 TO MP 20.1)  
CITY OF AKRON, SUMMIT COUNTY

STA-SUM ITS

69  
390

PROP. PULL BOX, 725.08: 32", PB1  
I-77 S.L.M. 128.89, 72' LT.

PROP. PULL BOX, 725.08: 32", PB2  
I-77 S.L.M. 128.85, 98' LT.

PROP. PULL BOX, 725.08: 32", PB3  
I-76 S.L.M. 20.25, 106' LT.

PROP. PULL BOX, 725.08: 32", PB4  
I-76 S.L.M. 20.25, 34' LT.

PROP. PULL BOX, 725.08: 48", PB5  
WITH SPLICE ASSEMBLY  
I-76 S.L.M. 20.24, 37' RT.

PROP. PULL BOX, 725.08: 18", PB6  
I-76 S.L.M. 20.24, 37' RT.

PROP. PULL BOX, 725.08: 18", PB7  
I-76 S.L.M. 20.18, 75' LT.

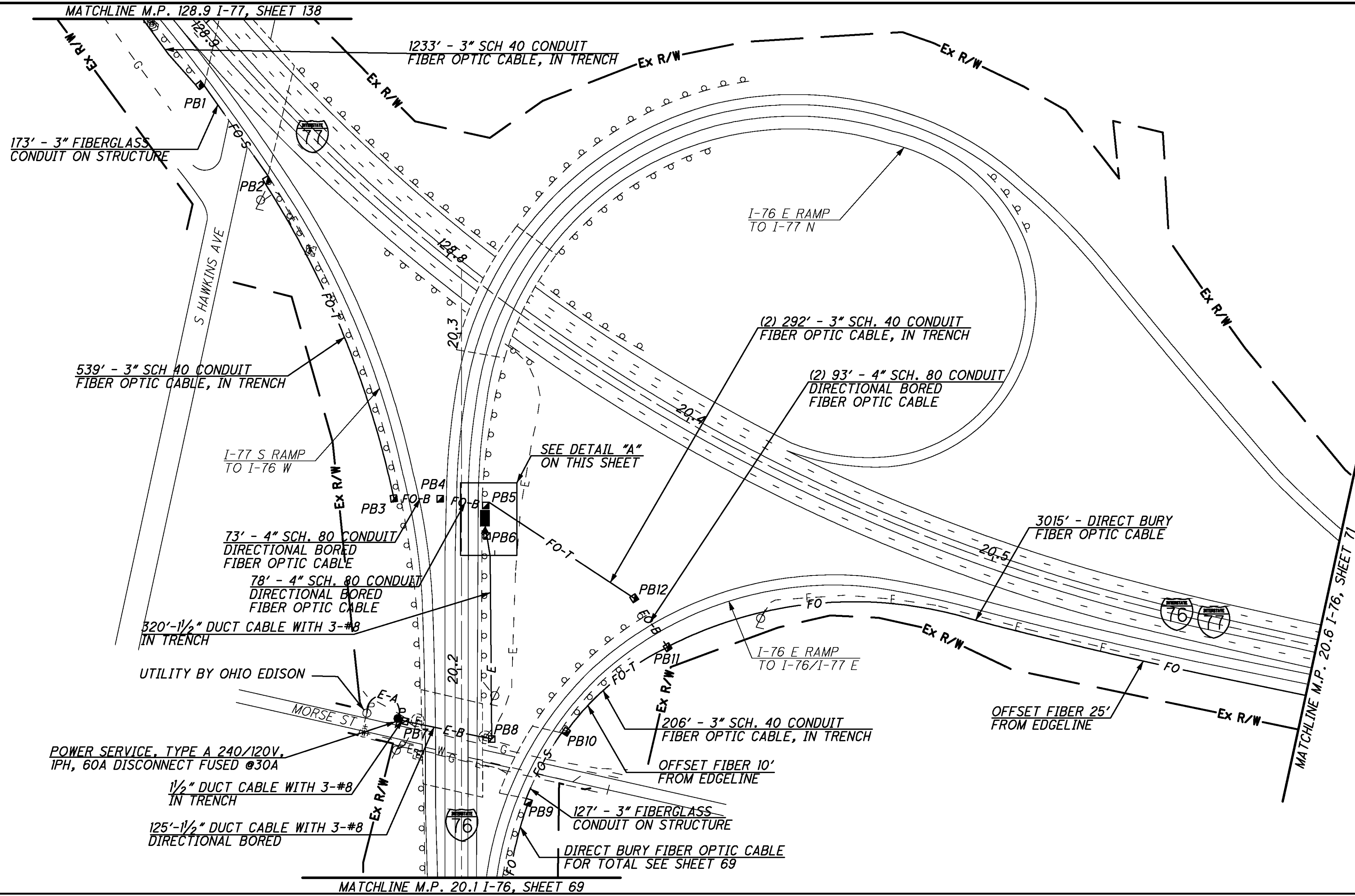
PROP. PULL BOX, 725.08: 18", PB8  
I-76 S.L.M. 20.19, 47' RT.

PROP. PULL BOX, 725.08: 32", PB9  
I-76 S.L.M. 20.16, 105' RT.

PROP. PULL BOX, 725.08: 32", PB10  
I-76 S.L.M. 20.18, 165' RT.

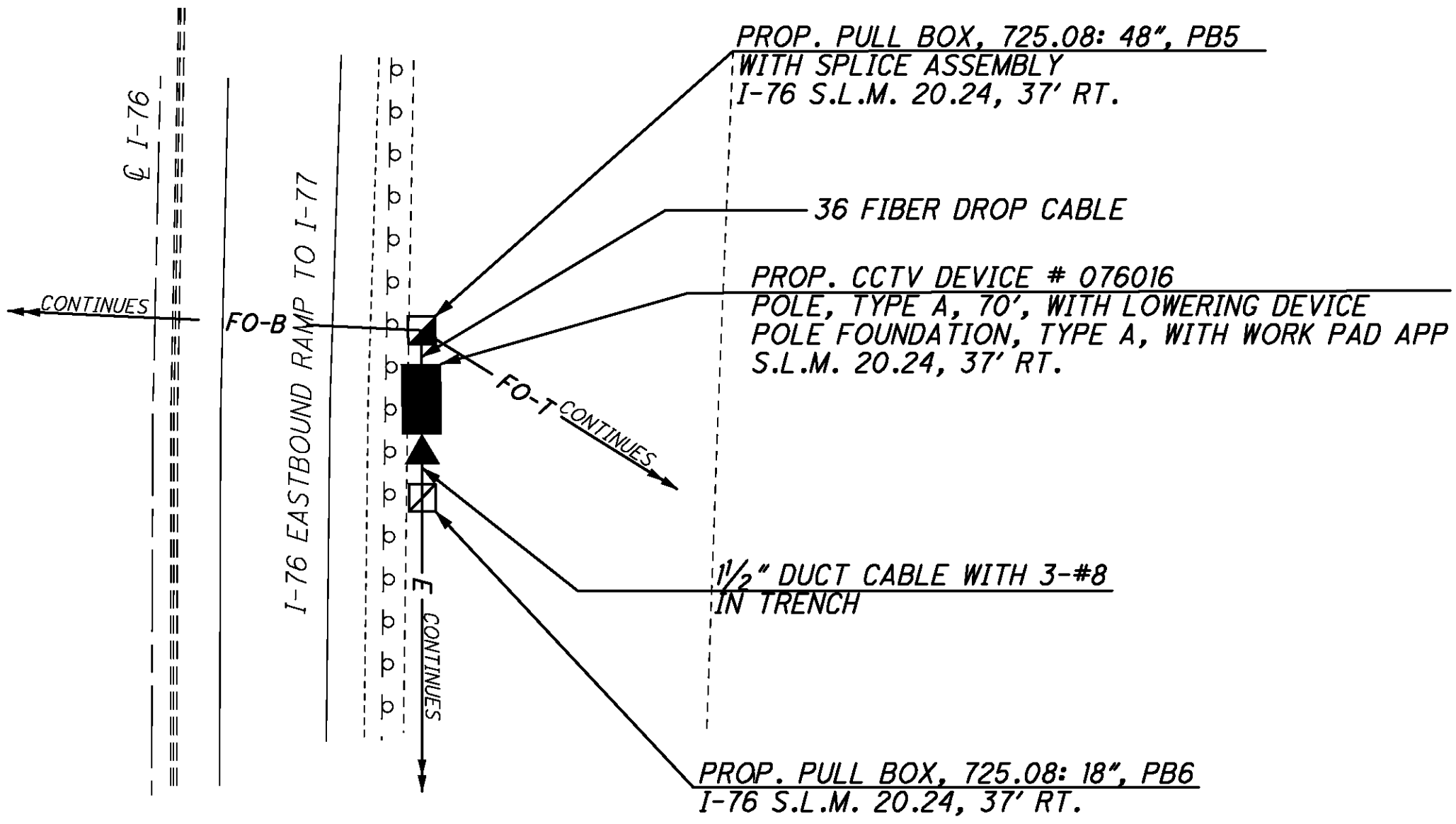
PROP. PULL BOX, 725.08: 32", PB11  
I-76/77 S.L.M. 20.43, 325' RT.

PROP. PULL BOX, 725.08: 32", PB12  
I-76/77 S.L.M. 20.41, 283' RT.



UTILITY BY OHIO EDISON  
POWER SERVICE, TYPE A 240/120V,  
IPH, 60A DISCONNECT FUSED @30A

DETAIL "A" - 20 SCALE



REFER TO SHEET 13 FOR TYPICAL CONDUIT ATTACHED TO STRUCTURE DETAILS

REFER TO SHEET 23 FOR TYPICAL CCTV DETAILS

REFER TO SHEET 208 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR BRIDGE OVER MORSE STREET

REFER TO SHEET 246 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR BRIDGE OVER HAWKINS AVE.

REFER TO SHEETS 293-295 FOR COMMUNICATION DETAILS

CALCULATED STS CHECKED JDG

I-76 AT I-77 (MP 20.1 TO MP 20.6)  
CITY OF AKRON, SUMMIT COUNTY

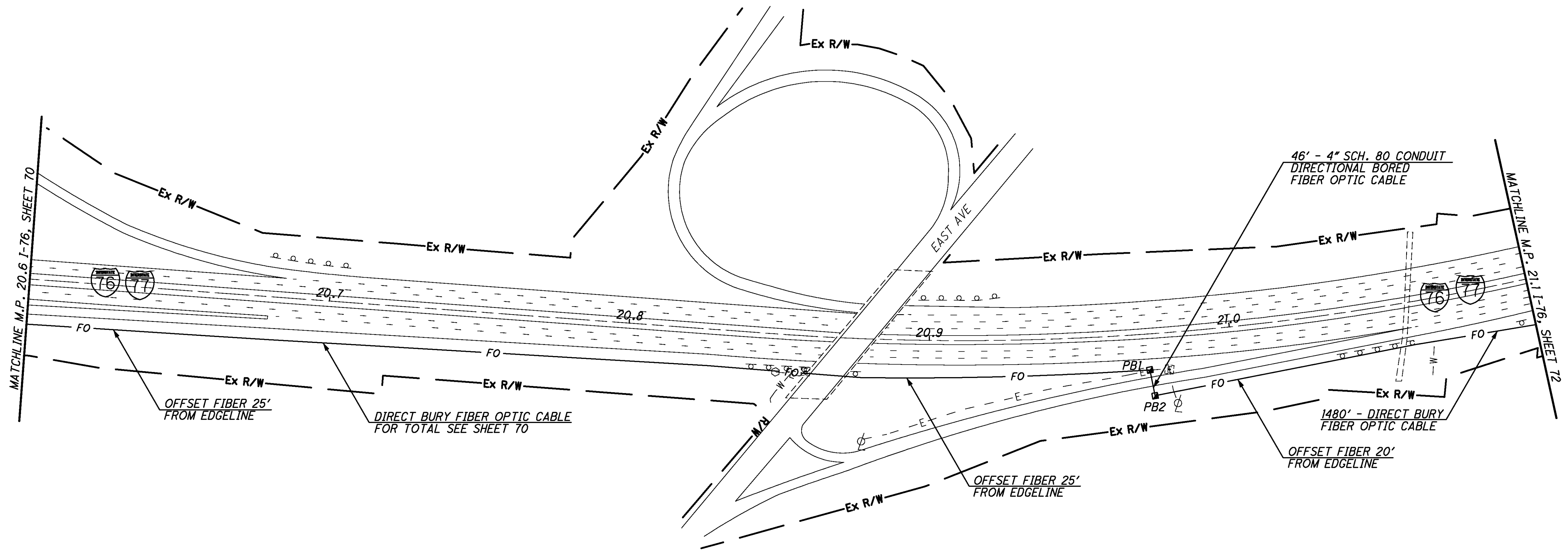
STA - SUM ITS

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PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 20.97, 63' RT.

PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 20.97, 109' RT.



CALCULATED  
STS  
CHECKED  
JDG

I-76 AT EAST AVE (MP 20.6 TO MP 21.1)  
CITY OF AKRON, SUMMIT COUNTY

STA-SUM ITS

71  
390

NO FIELD DEVICE ON THIS SHEET

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PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 21.25, 77' RT.

PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 21.28, 77' RT.

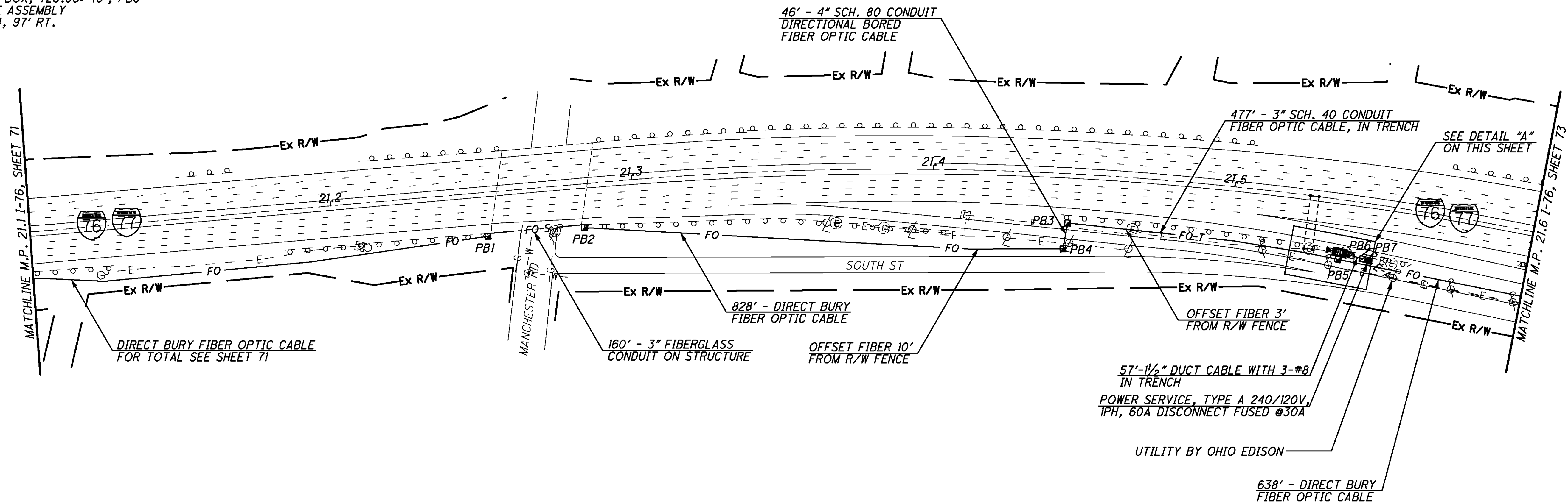
PROP. PULL BOX, 725.08: 32", PB3  
S.L.M. 21.45, 86' RT.

PROP. PULL BOX, 725.08: 32", PB4  
S.L.M. 21.45, 132' RT.

PROP. PULL BOX, 725.08: 48", PB5  
WITH SPLICE ASSEMBLY  
S.L.M. 21.54, 97' RT.

PROP. PULL BOX, 725.08: 18", PB6  
S.L.M. 21.45, 92' RT.

PROP. PULL BOX, 725.08: 18", PB7  
S.L.M. 21.55, 98' RT.



CALCULATED STS CHECKED JDG

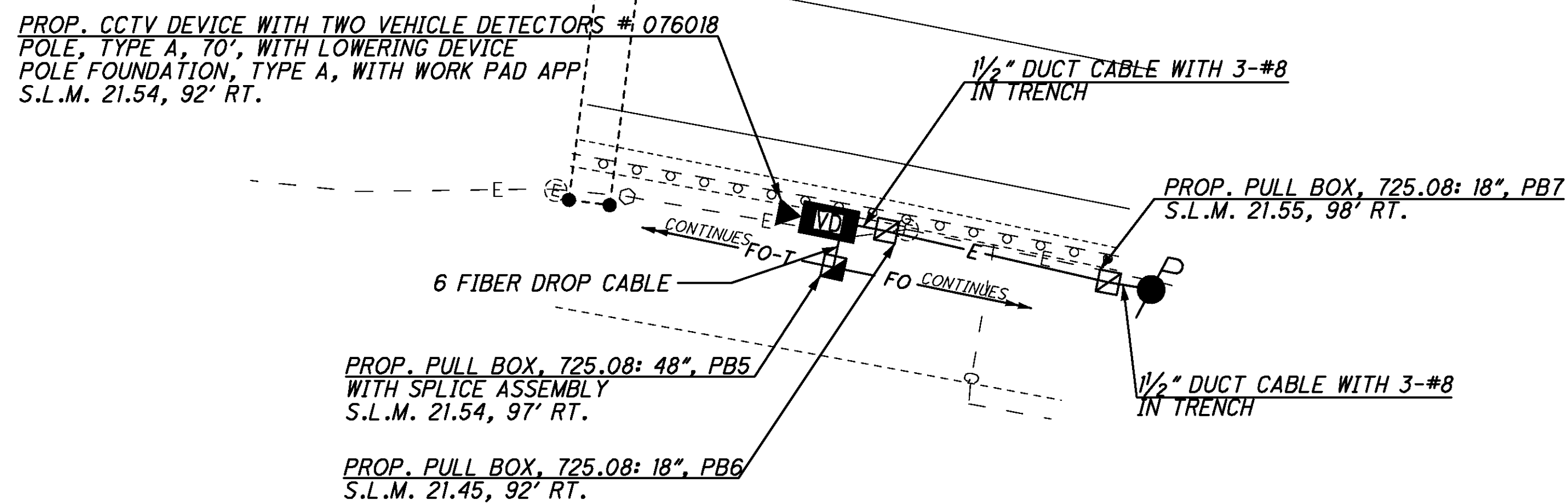
0 50 100 200  
HORIZONTAL SCALE IN FEET

I-76 AT MANCHESTER RD (MP 21.1 TO MP 21.6)  
CITY OF AKRON, SUMMIT COUNTY

STA-SUM ITS

72  
390

DETAIL "A" - 20 SCALE



REFER TO SHEET 13 FOR TYPICAL CONDUIT ATTACHED TO STRUCTURE DETAILS

REFER TO SHEET 24 FOR TYPICAL CCTV WITH TWO VEHICLE DETECTORS DETAILS

REFER TO SHEET 209 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR BRIDGE OVER MANCHESTER ROAD

REFER TO SHEET 296 FOR COMMUNICATION DETAILS

CCTV 076018

PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 21.66, 66' RT.

PROP. STRUCTURE JUNCTION BOX, APP, PB2  
S.L.M. 21.67, 62' RT.

PROP. PULL BOX, 725.08: 32", PB3  
S.L.M. 21.75, 65' RT.

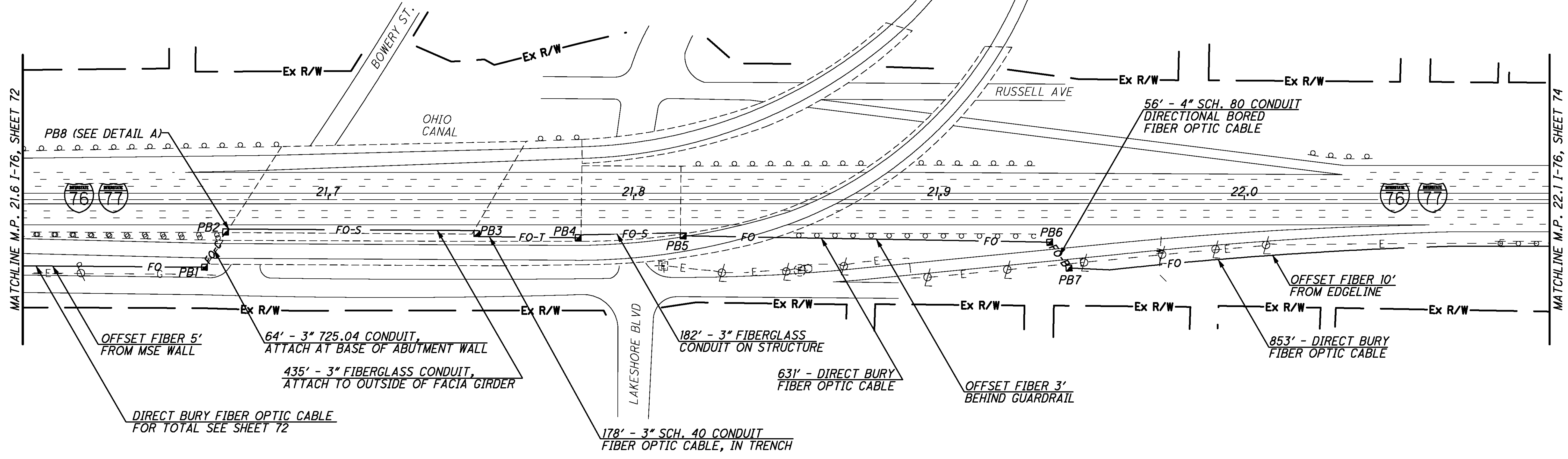
PROP. PULL BOX, 725.08: 32", PB4  
S.L.M. 21.78, 66' RT.

PROP. PULL BOX, 725.08: 32", PB5  
S.L.M. 21.82, 63' RT.

PROP. PULL BOX, 725.08: 32", PB6  
S.L.M. 21.94, 74' RT.

PROP. PULL BOX, 725.08: 32", PB7  
S.L.M. 21.94, 118' RT.

PROP. STRUCTURE JUNCTION BOX, APP, BP8  
S.L.M. 21.87, 62' RT.



0 50 100 200  
HORIZONTAL SCALE IN FEET

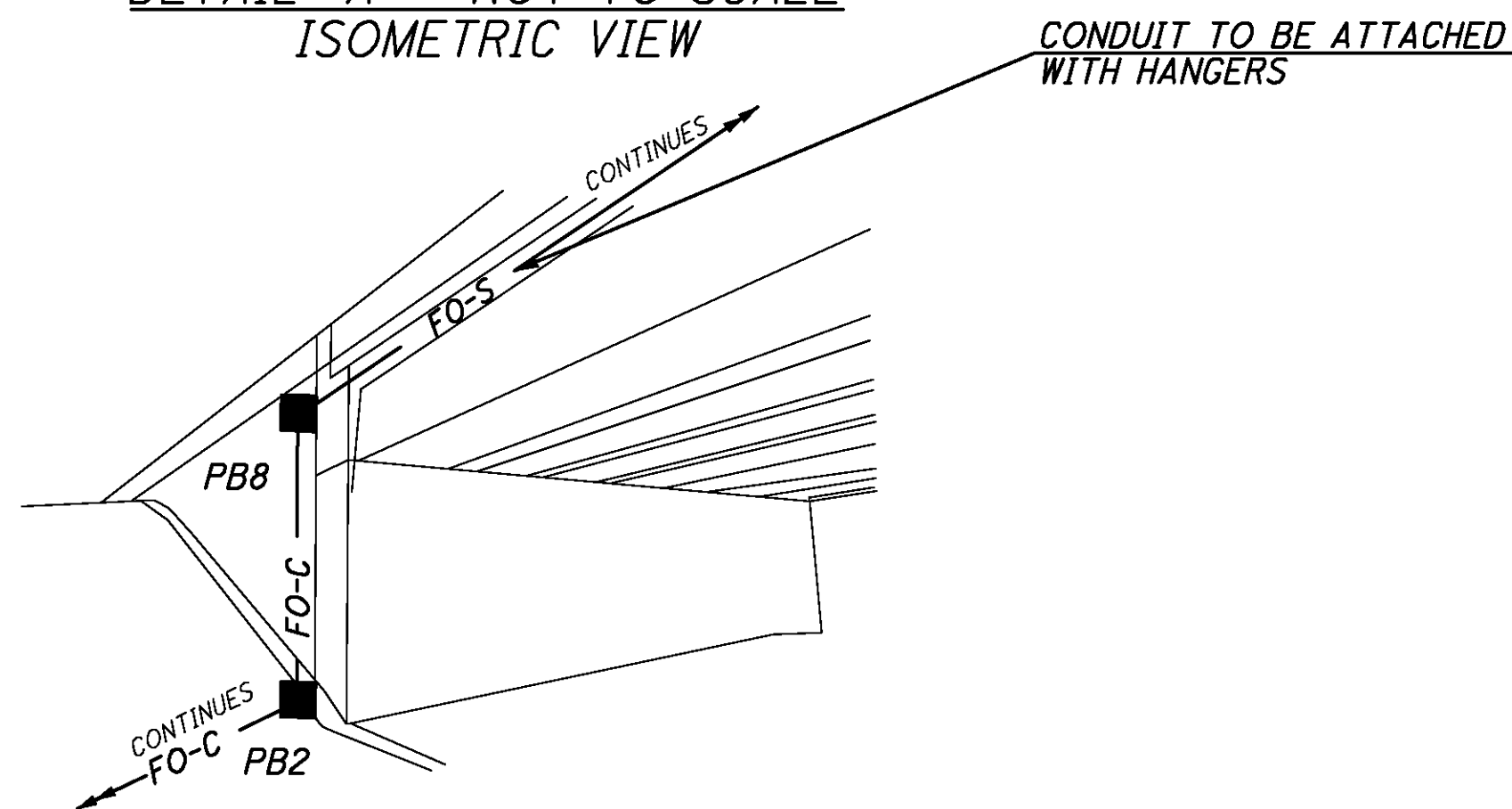
CALCULATED STS  
CHECKED JDG

I-76 AT SR-59 (MP 21.6 TO MP 22.1)  
CITY OF AKRON, SUMMIT COUNTY

STA-SUM ITS

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DETAIL "A" - NOT TO SCALE  
ISOMETRIC VIEW



REFER TO SHEET 13 FOR TYPICAL CONDUIT ATTACHED TO STRUCTURE DETAILS

REFER TO SHEET 210 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR BRIDGE OVER BOWERY STREET

REFER TO SHEET 211 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR BRIDGE OVER LAKESHORE BLVD.

NO FIELD DEVICE ON THIS SHEET

PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 22.10, 81' RT.

PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 22.12, 80' RT.

PROP. PULL BOX, 725.08: 32", PB3  
S.L.M. 22.36, 153' RT.

PROP. PULL BOX, 725.08: 32", PB4  
S.L.M. 22.36, 108' RT.

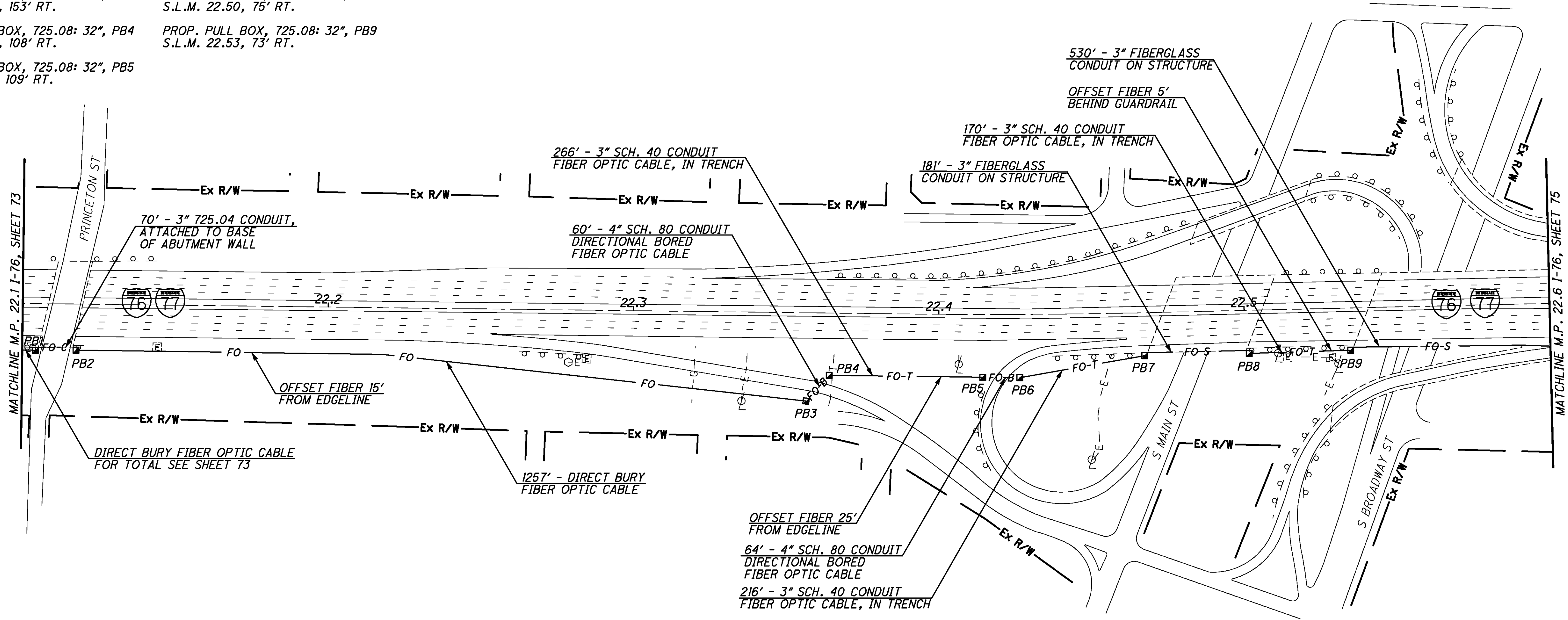
PROP. PULL BOX, 725.08: 32", PB5  
S.L.M. 22.41, 109' RT.

PROP. PULL BOX, 725.08: 32", PB6  
S.L.M. 22.43, 110' RT.

PROP. PULL BOX, 725.08: 32", PB7  
S.L.M. 22.47, 75' RT.

PROP. PULL BOX, 725.08: 32", PB8  
S.L.M. 22.50, 75' RT.

PROP. PULL BOX, 725.08: 32", PB9  
S.L.M. 22.53, 73' RT.



REFER TO SHEET 13 FOR TYPICAL CONDUIT ATTACHED TO STRUCTURE DETAILS

REFER TO SHEET 15 FOR GROUND TO CONCRETE WALL CONDUIT TRANSITION

REFER TO SHEET 212 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR BRIDGE OVER MAIN STREET

REFER TO SHEET 213 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR BRIDGE OVER BROADWAY-SWEITZER AVENUE

**NO FIELD DEVICE ON THIS SHEET**

CALCULATED STS CHECKED JDG

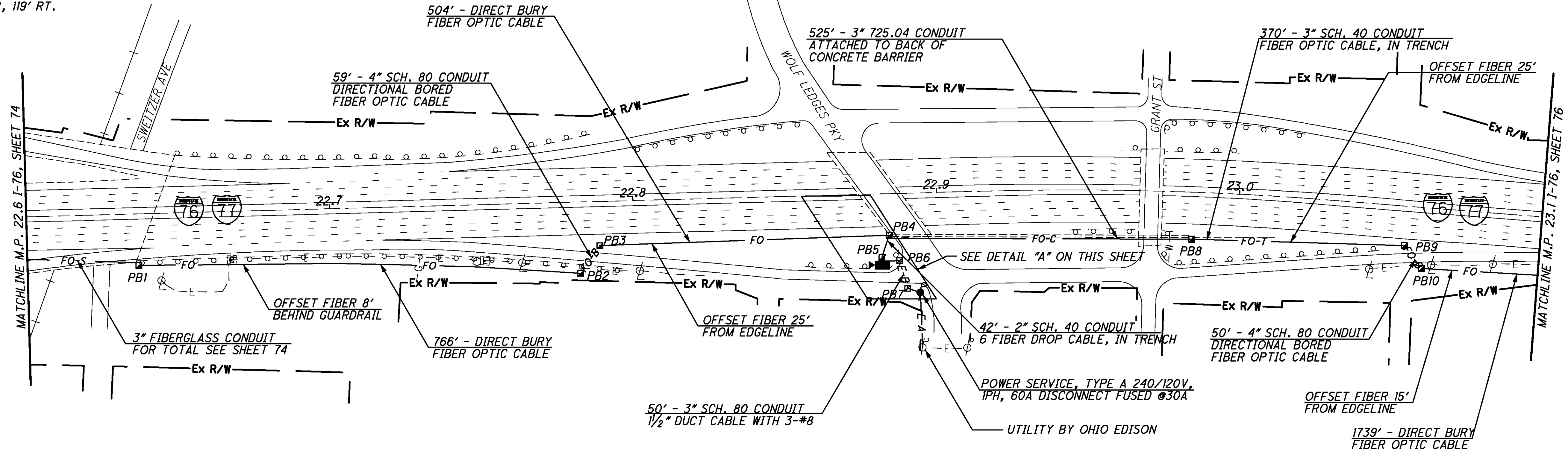
0 50 100 200  
HORIZONTAL SCALE IN FEET

**I-76 AT MAIN ST (MP 22.1 TO MP 22.6)**  
**CITY OF AKRON, SUMMIT COUNTY**

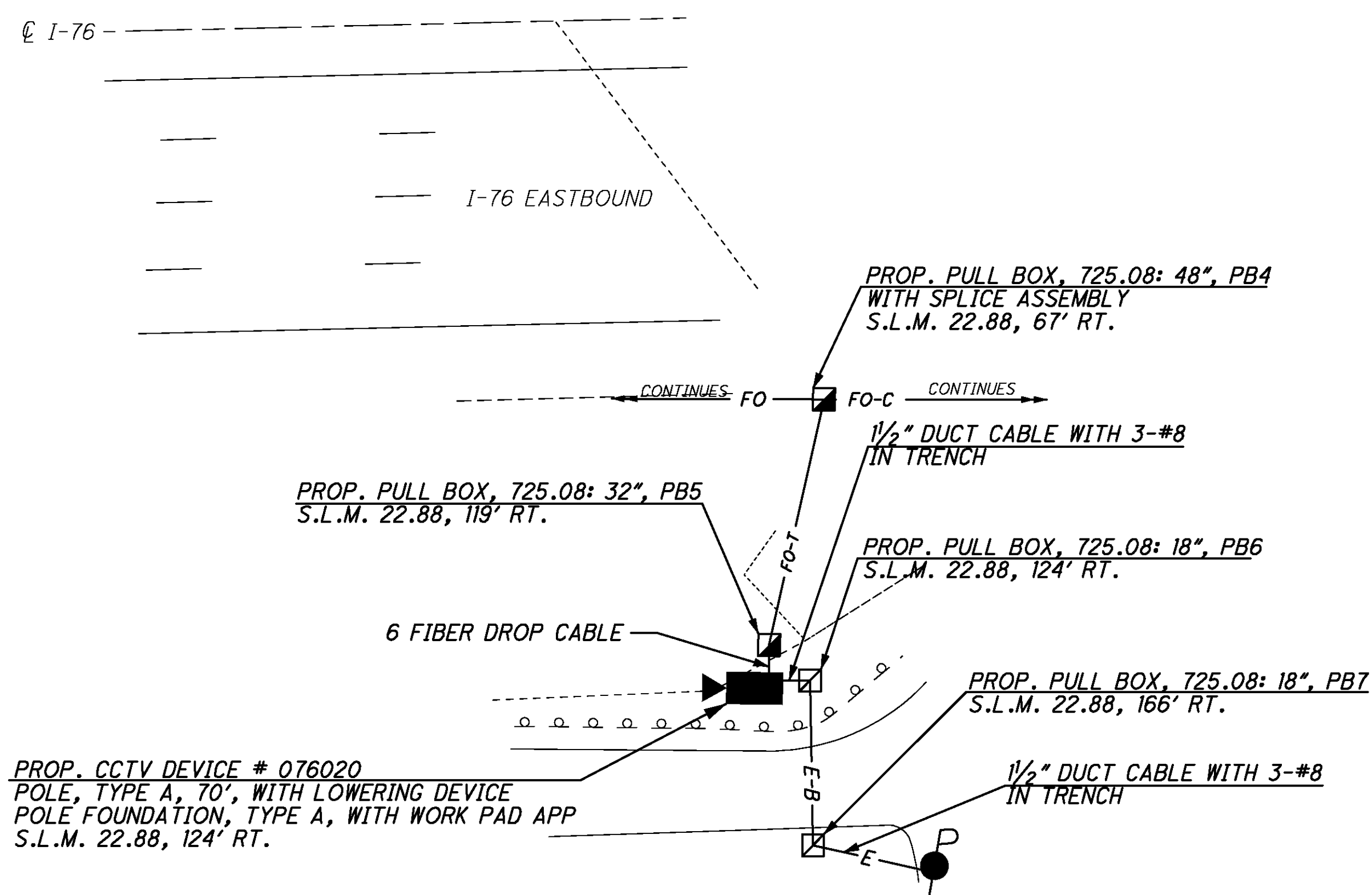
**STA-SUM ITS**

74  
390

- PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 22.64, 90' RT.
- PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 22.78, 124' RT.
- PROP. PULL BOX, 725.08: 32", PB3  
S.L.M. 22.79, 77' RT.
- PROP. PULL BOX, 725.08: 48", PB4  
WITH SPLICE ASSEMBLY  
S.L.M. 22.88, 67' RT.
- PROP. PULL BOX, 725.08: 32", PB5  
S.L.M. 22.88, 119' RT.
- PROP. PULL BOX, 725.08: 18", PB6  
S.L.M. 22.88, 124' RT.
- PROP. PULL BOX, 725.08: 18", PB7  
S.L.M. 22.88, 166' RT.
- PROP. PULL BOX, 725.08: 32", PB8  
S.L.M. 22.98, 82' RT.
- PROP. PULL BOX, 725.08: 32", PB9  
S.L.M. 23.06, 69' RT.
- PROP. PULL BOX, 725.08: 32", PB10  
S.L.M. 23.06, 106' RT.



DETAIL "A" - 20 SCALE



- REFER TO SHEET 13 FOR TYPICAL CONDUIT ATTACHED TO STRUCTURE DETAILS
- REFER TO SHEET 15 FOR GROUND TO CONCRETE WALL CONDUIT TRANSITION
- REFER TO SHEET 23 FOR TYPICAL CCTV DETAILS
- REFER TO SHEET 273 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR BRIDGE OVER BROADWAY-SWEITZER AVENUE
- REFER TO SHEET 297 FOR COMMUNICATION DETAILS

CCTV 076020



CALCULATED STS CHECKED JDG

I-76 AT WOLF LEDGES (MP 22.6 TO MP 23.1)  
CITY OF AKRON, SUMMIT COUNTY

STA-SUM ITS

75  
390



PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 23.39, 74' RT.

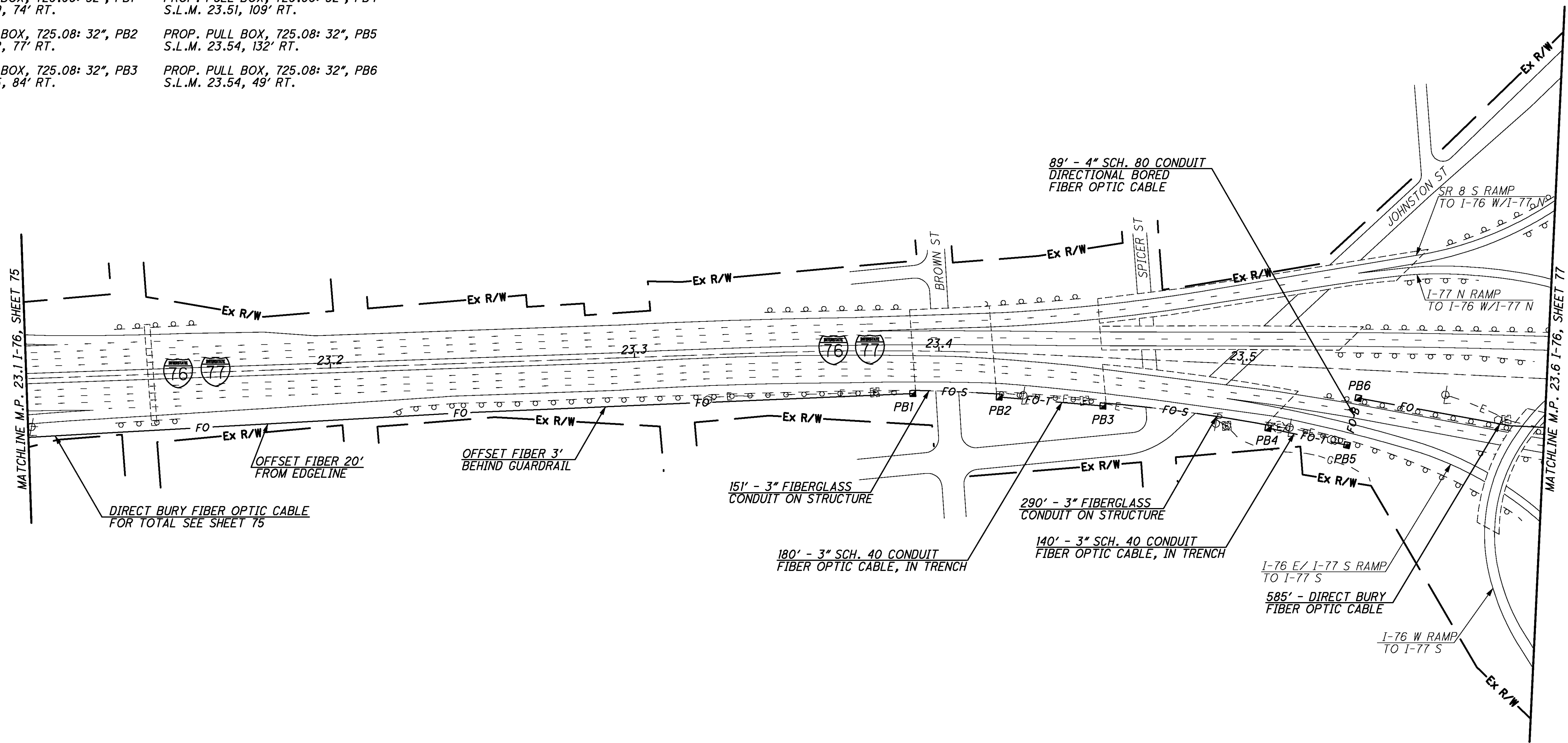
PROP. PULL BOX, 725.08: 32", PB4  
S.L.M. 23.51, 109' RT.

PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 23.42, 77' RT.

PROP. PULL BOX, 725.08: 32", PB5  
S.L.M. 23.54, 132' RT.

PROP. PULL BOX, 725.08: 32", PB3  
S.L.M. 23.45, 84' RT.

PROP. PULL BOX, 725.08: 32", PB6  
S.L.M. 23.54, 49' RT.



REFER TO SHEET 13 FOR TYPICAL CONDUIT ATTACHED TO STRUCTURE DETAILS

REFER TO SHEET 214 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR BRIDGE OVER BROWN STREET

REFER TO SHEET 215 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR BRIDGE OVER SPICER-JOHNSON STREET

**NO FIELD DEVICE ON THIS SHEET**

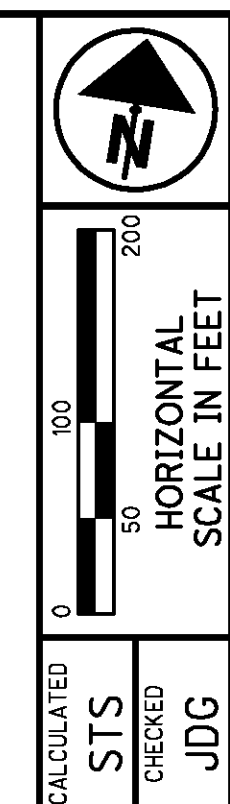


CALCULATED STS  
CHECKED JDG

**I-76 AT JOHNSTON ST (MP 23.1 TO MP 23.6)**  
**CITY OF AKRON, SUMMIT COUNTY**

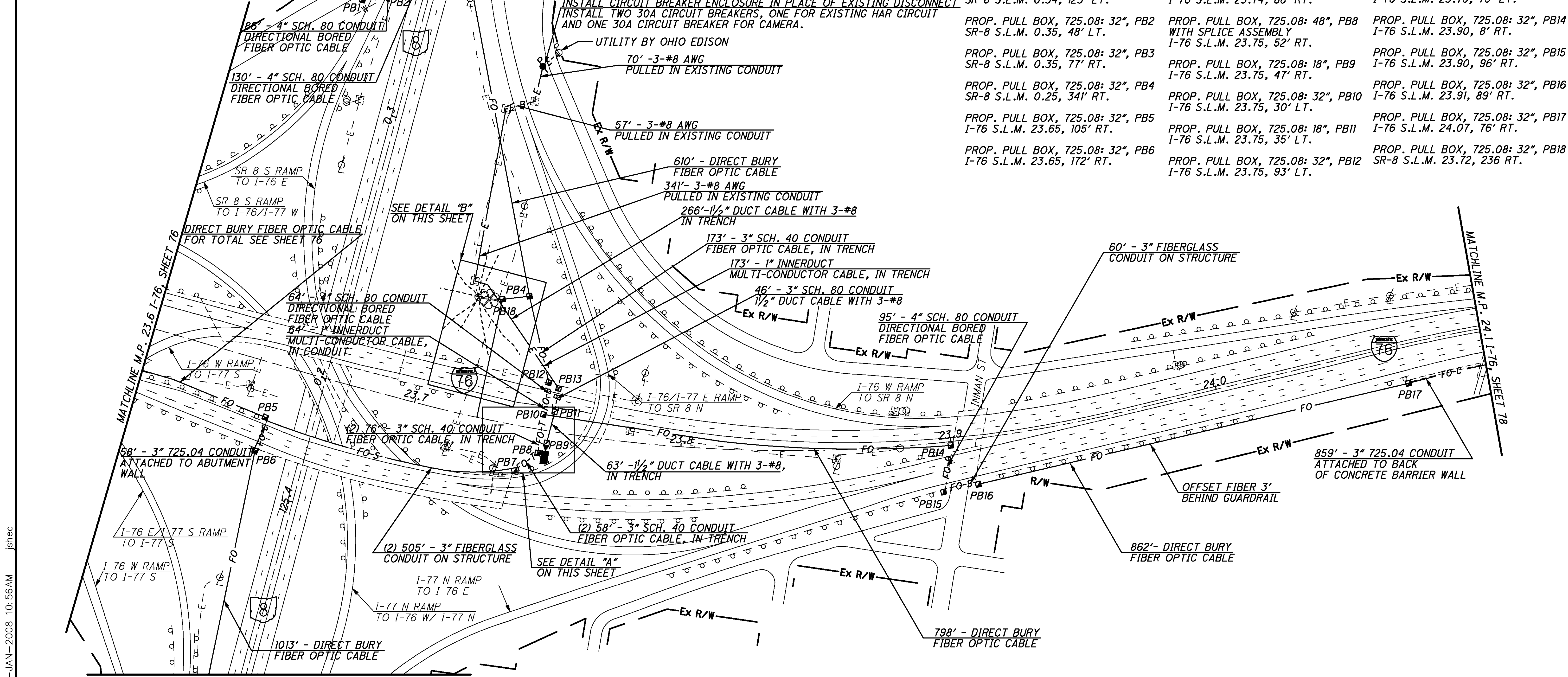
STA-SUM ITS

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390



I-76 AT I-77 (MP 23.6 TO MP 24.1)  
CITY OF AKRON, SUMMIT COUNTY

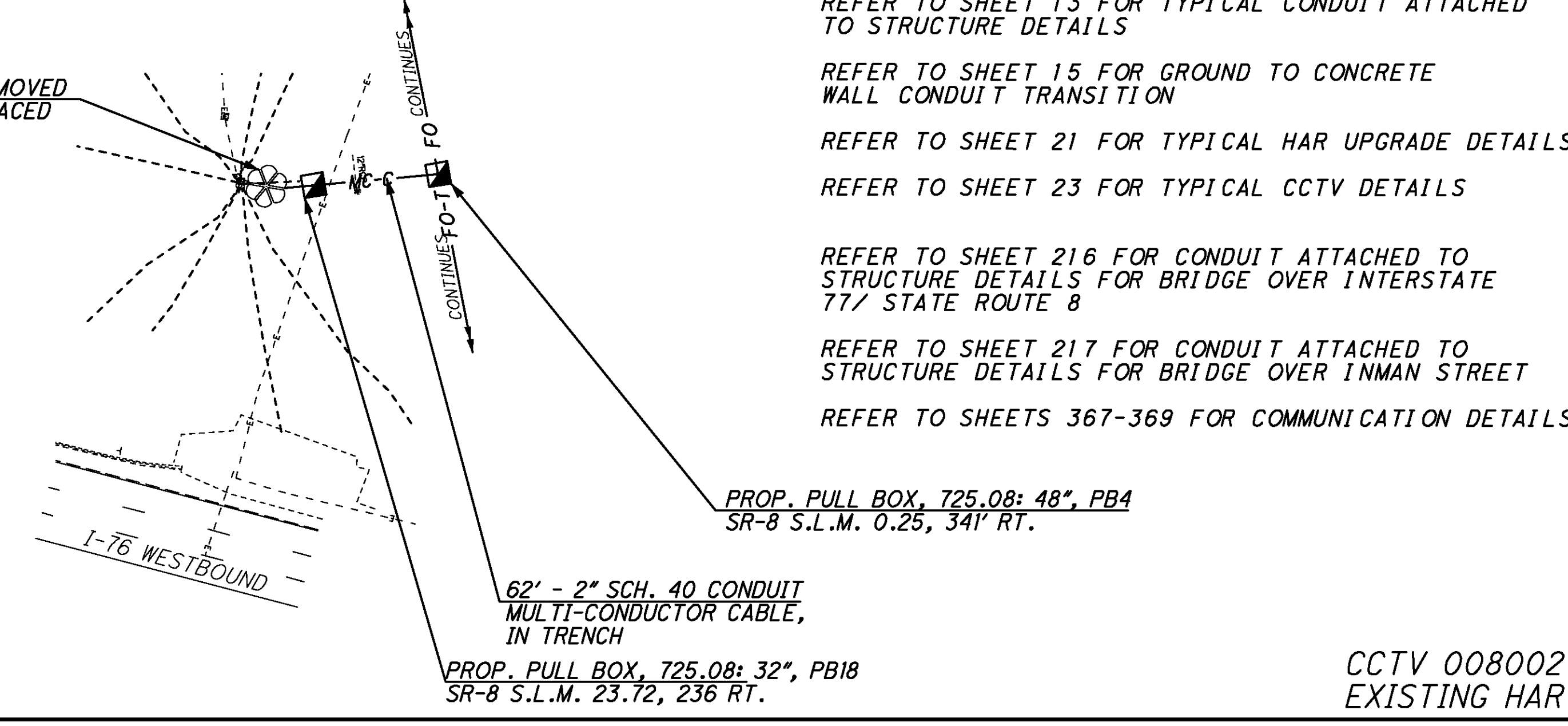
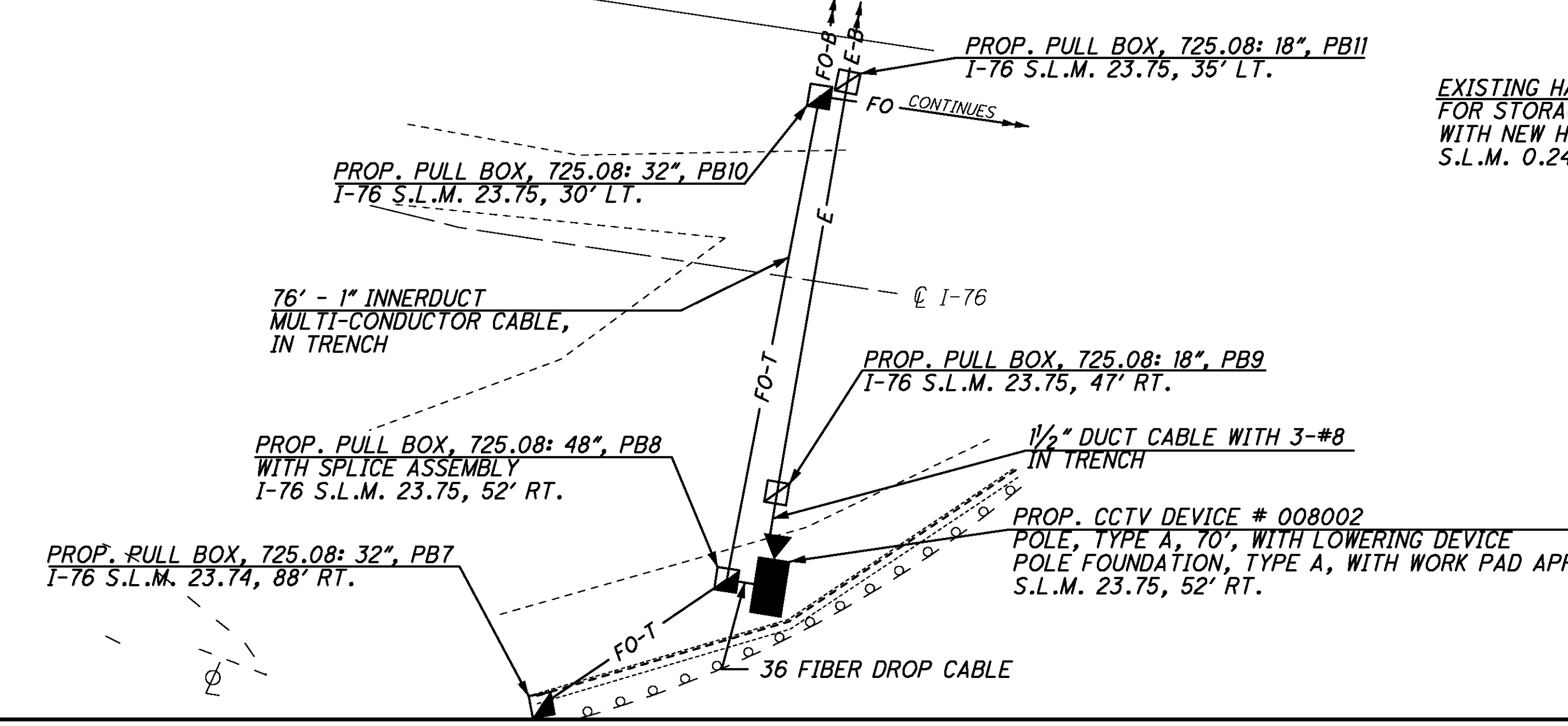
STA-SUM ITS



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DETAIL "A" - 20 SCALE

DETAIL "B" - 50 SCALE



REFER TO SHEET 13 FOR TYPICAL CONDUIT ATTACHED TO STRUCTURE DETAILS  
REFER TO SHEET 15 FOR GROUND TO CONCRETE WALL CONDUIT TRANSITION  
REFER TO SHEET 21 FOR TYPICAL HAR UPGRADE DETAILS  
REFER TO SHEET 23 FOR TYPICAL CCTV DETAILS  
REFER TO SHEET 216 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR BRIDGE OVER INTERSTATE 77/ STATE ROUTE 8  
REFER TO SHEET 217 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR BRIDGE OVER INMAN STREET  
REFER TO SHEETS 367-369 FOR COMMUNICATION DETAILS

CCTV 008002  
EXISTING HAR

PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 24.24, 65' RT.

PROP. PULL BOX, 725.08: 18", PB5  
S.L.M. 24.34, 84' LT.

PROP. PULL BOX, 725.08: 48", PB2  
WITH SPLICE ASSEMBLY  
S.L.M. 24.30, 71' RT.

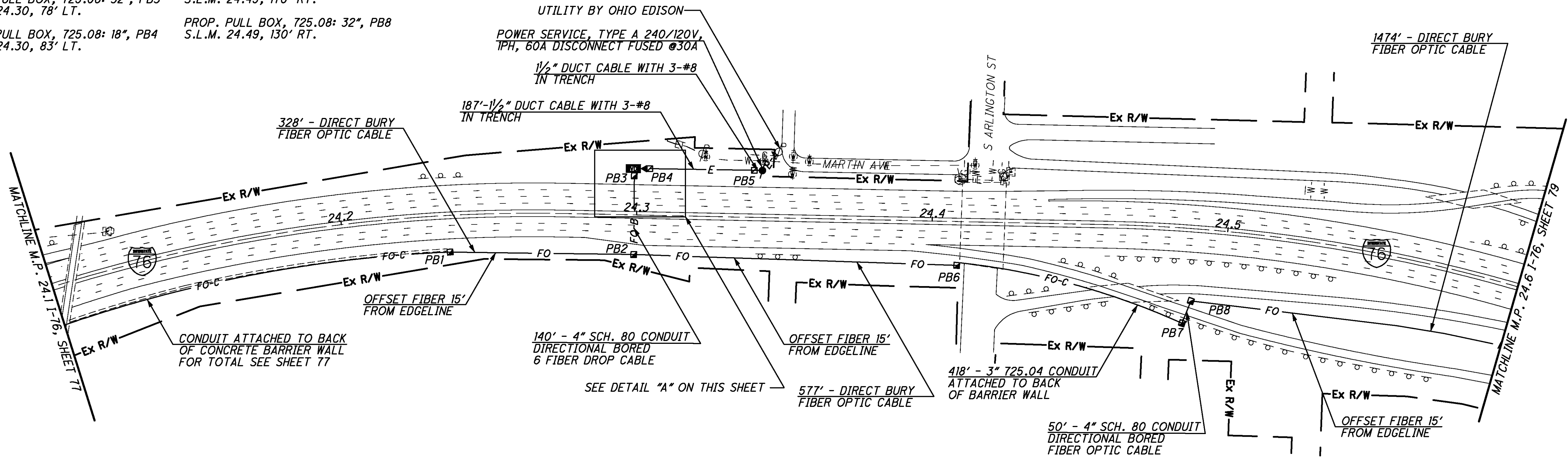
PROP. PULL BOX, 725.08: 32", PB6  
S.L.M. 24.41, 78' RT.

PROP. PULL BOX, 725.08: 32", PB3  
S.L.M. 24.30, 78' LT.

PROP. PULL BOX, 725.08: 32", PB7  
S.L.M. 24.49, 170' RT.

PROP. PULL BOX, 725.08: 18", PB4  
S.L.M. 24.30, 83' LT.

PROP. PULL BOX, 725.08: 32", PB8  
S.L.M. 24.49, 130' RT.



CALCULATED STS  
CHECKED JDG

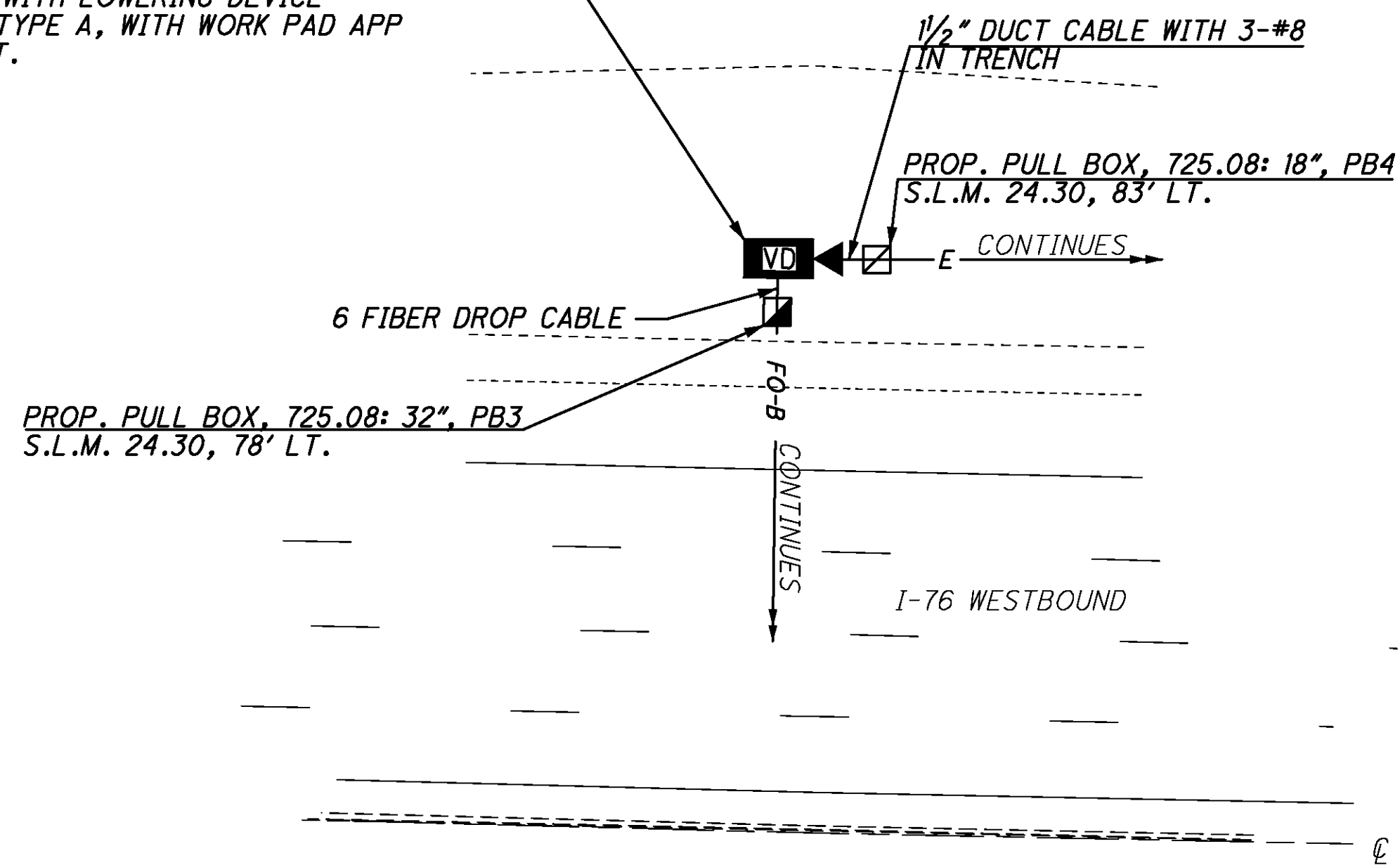
I-76 AT ARLINGTON ST (MP 24.1 TO MP 24.6)  
CITY OF AKRON, SUMMIT COUNTY

STA-SUM ITS

78  
390

DETAIL "A" - 20 SCALE

PROP. CCTV DEVICE WITH TWO VEHICLE DETECTORS # 076022  
POLE, TYPE A, 70', WITH LOWERING DEVICE  
POLE FOUNDATION, TYPE A, WITH WORK PAD APP  
S.L.M. 24.30, 83' LT.



REFER TO SHEET 15 FOR GROUND TO CONCRETE WALL CONDUIT TRANSITION

REFER TO SHEET 24 FOR TYPICAL CCTV WITH TWO VEHICLE DETECTORS DETAILS

REFER TO SHEET 298 FOR COMMUNICATION DETAILS

PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 24.77, 81' RT.

PROP. PULL BOX, 725.08: 32", PB4  
S.L.M. 25.07, 272' RT.

PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 24.79, 80' RT.

PROP. PULL BOX, 725.08: 32", PB5  
S.L.M. 25.07, 234' RT.

PROP. PULL BOX, 725.08: 32", PB3  
S.L.M. 24.86, 81' RT.

PROP. PULL BOX, 725.08: 32", PB6  
S.L.M. 25.09, 267' RT.

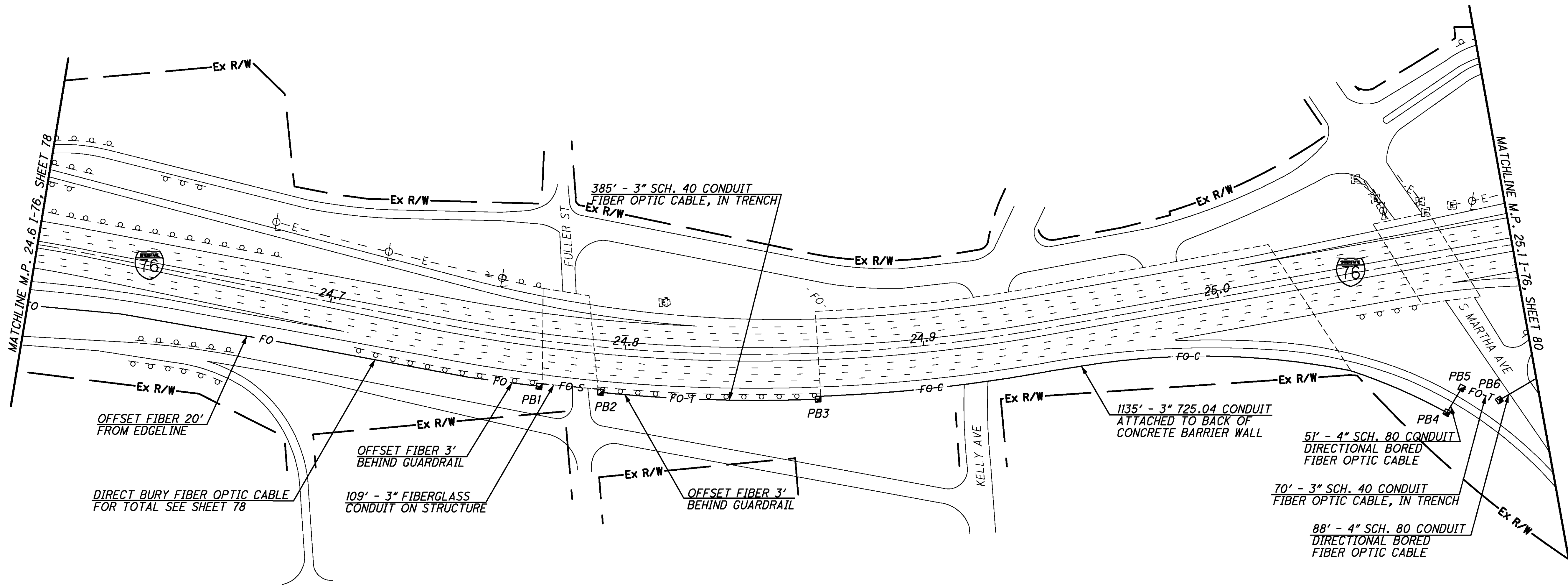


CALCULATED STS  
CHECKED JDG

I-76 AT FULLER ST (MP 24.6 TO MP 25.1)  
CITY OF AKRON, SUMMIT COUNTY

STA-SUM ITS

79  
390



REFER TO SHEET 13 FOR TYPICAL CONDUIT ATTACHED TO STRUCTURE DETAILS

REFER TO SHEET 15 FOR GROUND TO CONCRETE WALL CONDUIT TRANSITION

REFER TO SHEET 218 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR BRIDGE OVER FULLER STREET

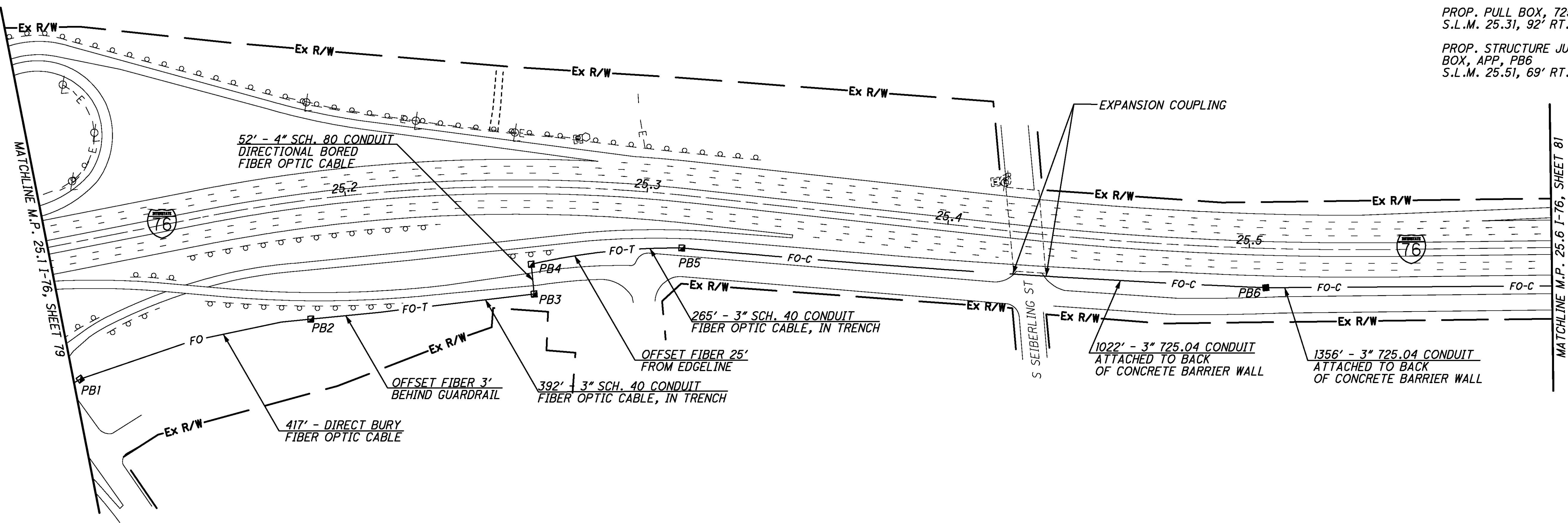
REFER TO SHEET 219 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR BRIDGE OVER KELLY AVENUE

NO FIELD DEVICE ON THIS SHEET

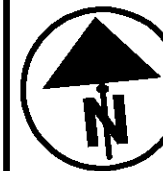

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- PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 25.10, 236' RT.
- PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 25.18, 206' RT.
- PROP. PULL BOX, 725.08: 32", PB3  
S.L.M. 25.26, 187' RT.
- PROP. PULL BOX, 725.08: 32", PB4  
S.L.M. 25.26, 135' RT.
- PROP. PULL BOX, 725.08: 32", PB5  
S.L.M. 25.31, 92' RT.
- PROP. STRUCTURE JUNCTION  
BOX, APP, PB6  
S.L.M. 25.51, 69' RT.


  

  
 HORIZONTAL  
 SCALE IN FEET

CALCULATED	STS	CHECKED	JDG
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I-76 AT SEIBERLING ST (MP 25.1 TO MP 25.6)  
 CITY OF AKRON, SUMMIT COUNTY

STA - SUM ITS  
 80  
 390

REFER TO SHEET 15 FOR GROUND TO CONCRETE WALL CONDUIT TRANSITION

NO FIELD DEVICE ON THIS SHEET

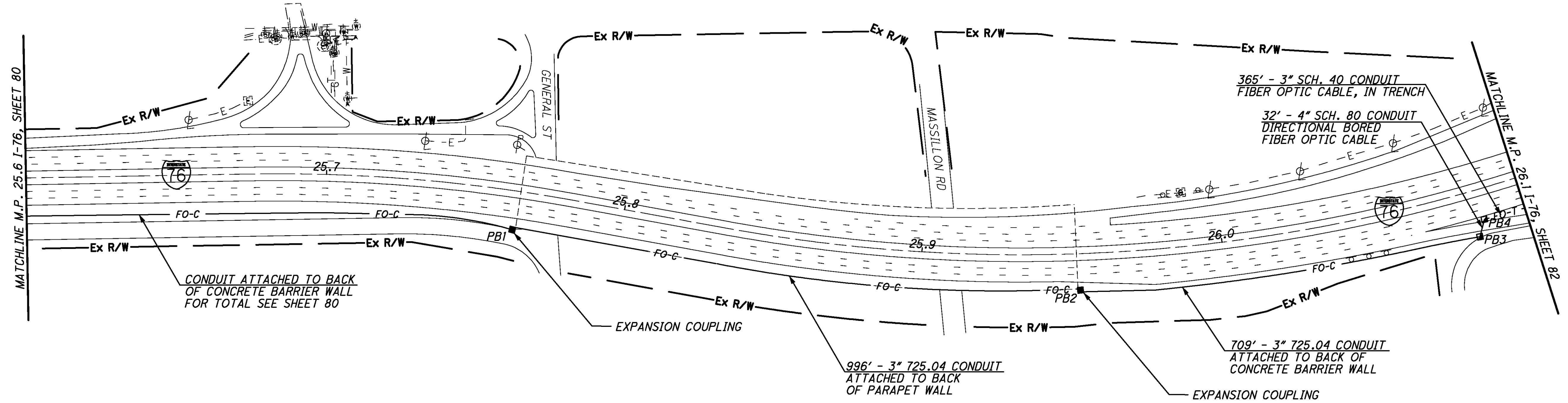


PROP. STRUCTURE JUNCTION  
BOX, APP, PB1  
S.L.M. 25.76, 68' RT.

PROP. STRUCTURE JUNCTION  
BOX, APP, PB2  
S.L.M. 25.95, 64' RT.

PROP. PULL BOX, 725.08: 32", PB3  
S.L.M. 26.08, 81' RT.

PROP. PULL BOX, 725.08: 32", PB4  
S.L.M. 26.09, 54' RT.



CONDUIT ATTACHED TO BACK  
OF CONCRETE BARRIER WALL  
FOR TOTAL SEE SHEET 80

EXPANSION COUPLING

996' - 3" 725.04 CONDUIT  
ATTACHED TO BACK  
OF PARAPET WALL

709' - 3" 725.04 CONDUIT  
ATTACHED TO BACK OF  
CONCRETE BARRIER WALL

EXPANSION COUPLING

REFER TO SHEET 15 FOR GROUND TO CONCRETE  
WALL CONDUIT TRANSITION

NO FIELD DEVICE ON THIS SHEET



CALCULATED STS  
CHECKED JDG

I-76 AT MASSILLON RD (MP 25.6 TO MP 26.1)  
CITY OF AKRON, SUMMIT COUNTY

STA-SUM ITS

PROP. PULL BOX, 725.08: 48", PB1  
WITH SPLICE ASSEMBLY  
S.L.M. 26.15, 73' RT.

PROP. PULL BOX, 725.08: 18", PB6  
S.L.M. 26.22, 94' RT.

PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 26.15, 73' LT.

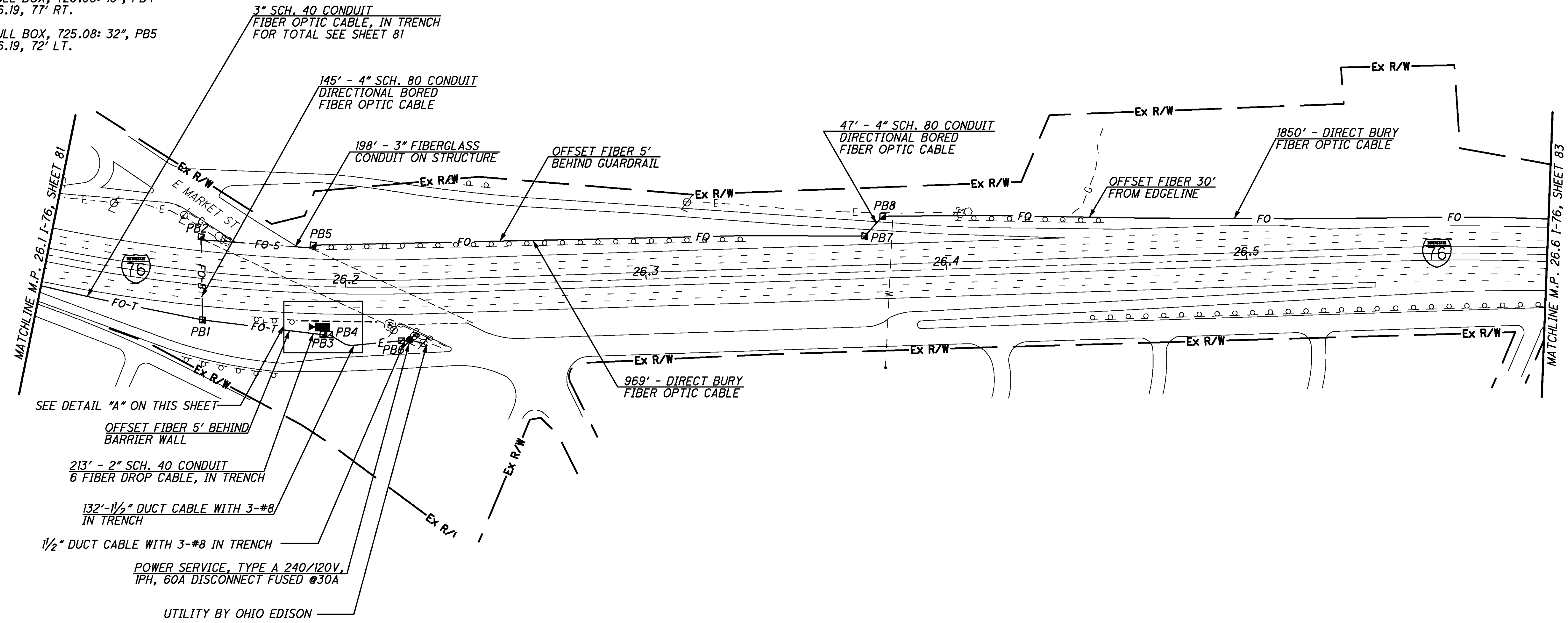
PROP. PULL BOX, 725.08: 32", PB7  
S.L.M. 26.37, 63' LT.

PROP. PULL BOX, 725.08: 32", PB3  
S.L.M. 26.19, 77' RT.

PROP. PULL BOX, 725.08: 32", PB8  
S.L.M. 26.38, 97' LT.

PROP. PULL BOX, 725.08: 18", PB4  
S.L.M. 26.19, 77' RT.

PROP. PULL BOX, 725.08: 32", PB5  
S.L.M. 26.19, 72' LT.



SEE DETAIL "A" ON THIS SHEET

OFFSET FIBER 5' BEHIND BARRIER WALL

213' - 2" SCH. 40 CONDUIT  
6 FIBER DROP CABLE, IN TRENCH

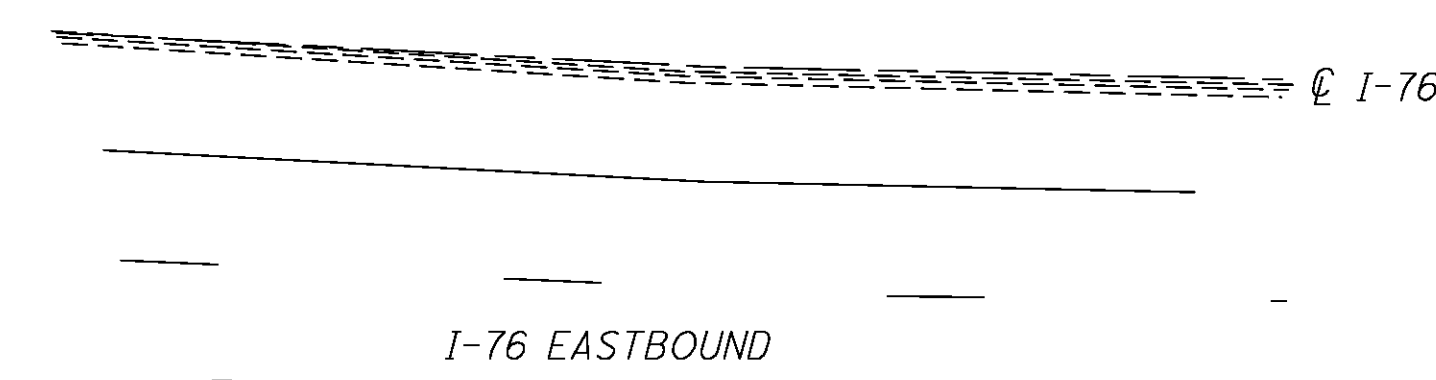
132'-1/2" DUCT CABLE WITH 3-#8  
IN TRENCH

1/2" DUCT CABLE WITH 3-#8 IN TRENCH

POWER SERVICE, TYPE A 240/120V,  
1PH, 60A DISCONNECT FUSED @30A

UTILITY BY OHIO EDISON

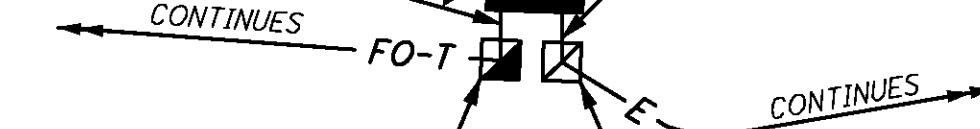
DETAIL "A" - 20 SCALE



PROP. CCTV DEVICE # 076024  
POLE, TYPE A, 70', WITH LOWERING DEVICE  
POLE FOUNDATION, TYPE A WITH WORK PAD APP  
S.L.M. 26.19, 72' RT.

1/2" DUCT CABLE WITH 3-#8  
IN TRENCH

6 FIBER DROP CABLE



PROP. PULL BOX, 725.08: 32", PB3  
S.L.M. 26.19, 77' RT.

REFER TO SHEET 14 FOR TYPICAL CONDUIT ATTACHED TO STRUCTURE DETAILS  
REFER TO SHEET 23 FOR TYPICAL CCTV DETAILS  
REFER TO SHEET 220 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR BRIDGE OVER MARKET STREET  
REFER TO SHEET 299 FOR COMMUNICATION DETAILS

CALCULATED STS CHECKED JDG

HORIZONTAL SCALE IN FEET

I-76 AT MARKET ST (MP 26.1 TO MP 26.6)  
CITY OF AKRON, SUMMIT COUNTY

STA - SUM ITS

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PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 26.73, 54' LT.

PROP. PULL BOX, 725.08: 18", PB5  
S.L.M. 27.03, 72' LT.

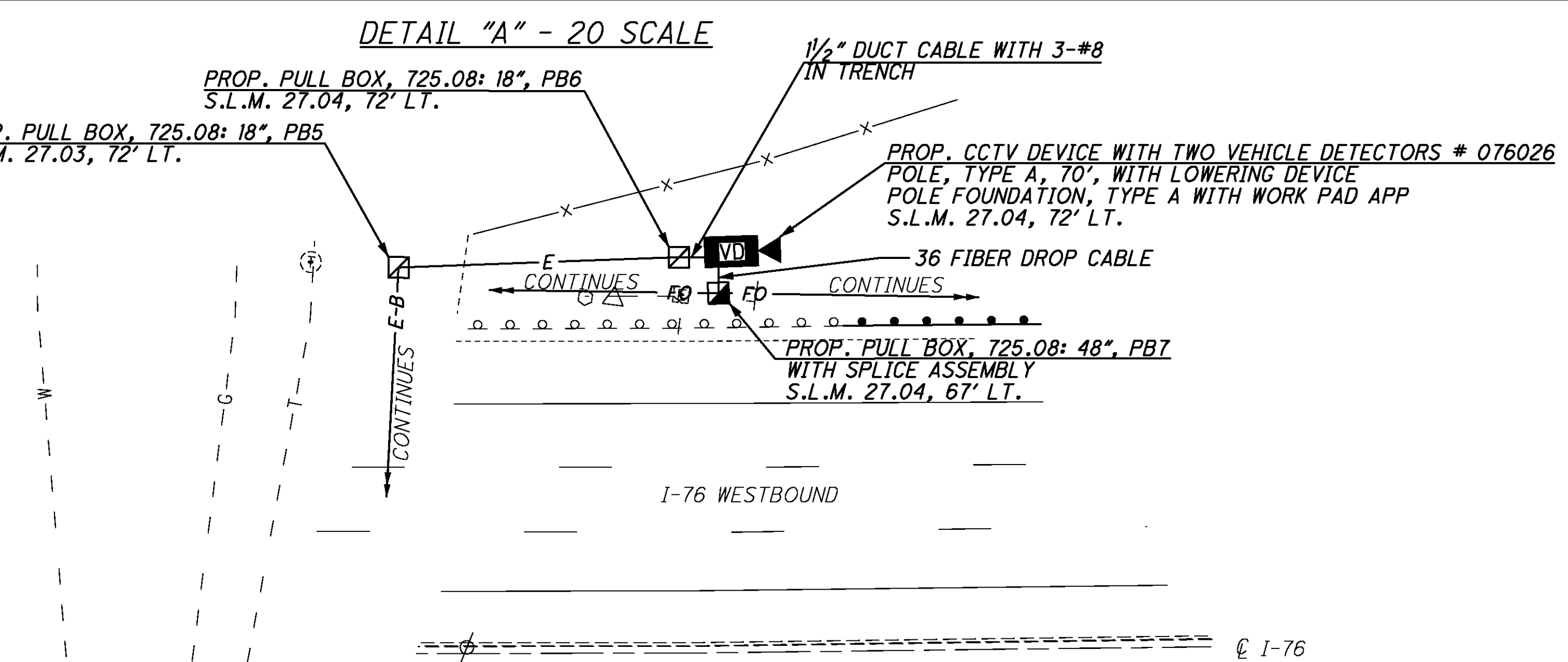
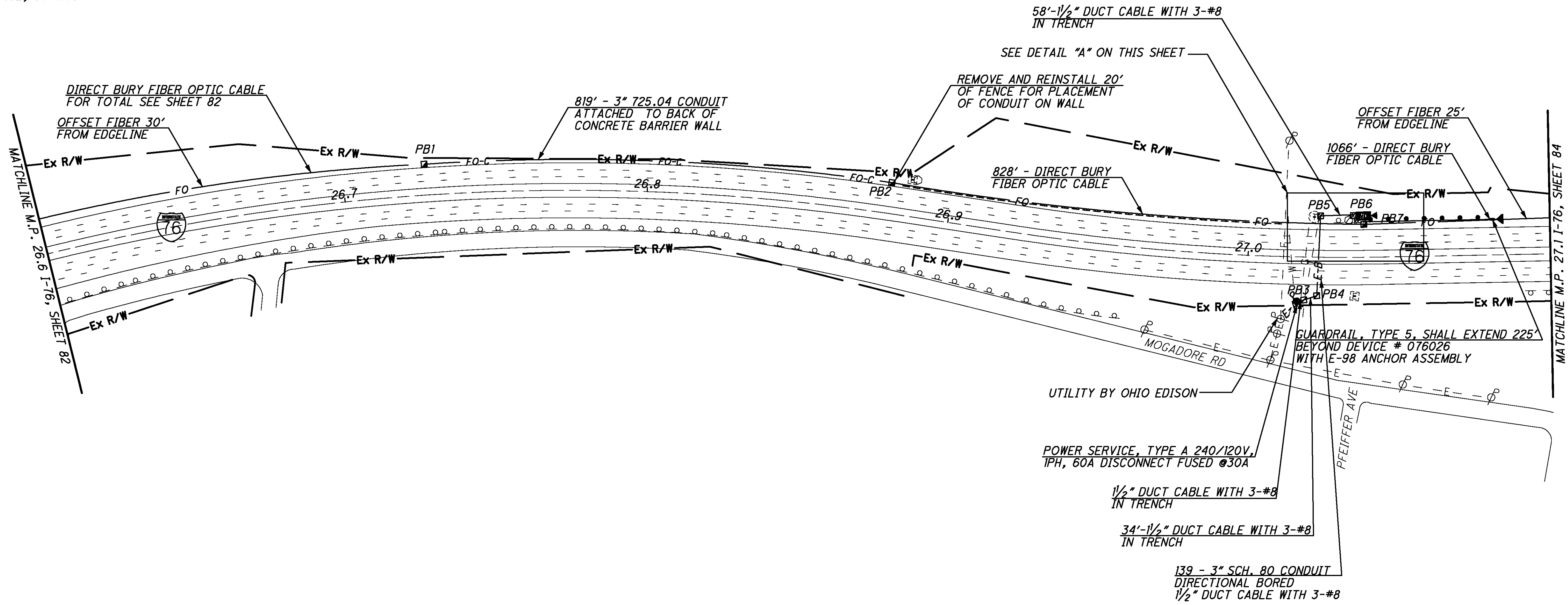
PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 26.88, 54' LT.

PROP. PULL BOX, 725.08: 18", PB3  
S.L.M. 27.02, 75' RT.

PROP. PULL BOX, 725.08: 18", PB4  
S.L.M. 27.02, 67' RT.

PROP. PULL BOX, 725.08: 18", PB6  
S.L.M. 27.04, 72' LT.

PROP. PULL BOX, 725.08: 48", PB7  
WITH SPLICE ASSEMBLY  
S.L.M. 27.04, 67' LT.



REFER TO SHEET 15 FOR GROUND TO CONCRETE WALL CONDUIT TRANSITION

REFER TO SHEET 24 FOR TYPICAL CCTV WITH TWO VEHICLE DETECTORS DETAILS

REFER TO SHEETS 300-302 FOR COMMUNICATION DETAILS

CALCULATED STS CHECKED JDG

0 50 100 200  
HORIZONTAL SCALE IN FEET

I-76 AT CANTON RD (MP 26.6 TO MP 27.1)  
CITY OF AKRON, SUMMIT COUNTY

STA-SUM ITS

83  
390

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PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 27.24, 83' LT.

PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 27.25, 50' LT.

PROP. PULL BOX, 725.08: 32", PB3  
S.L.M. 27.30, 55' LT.

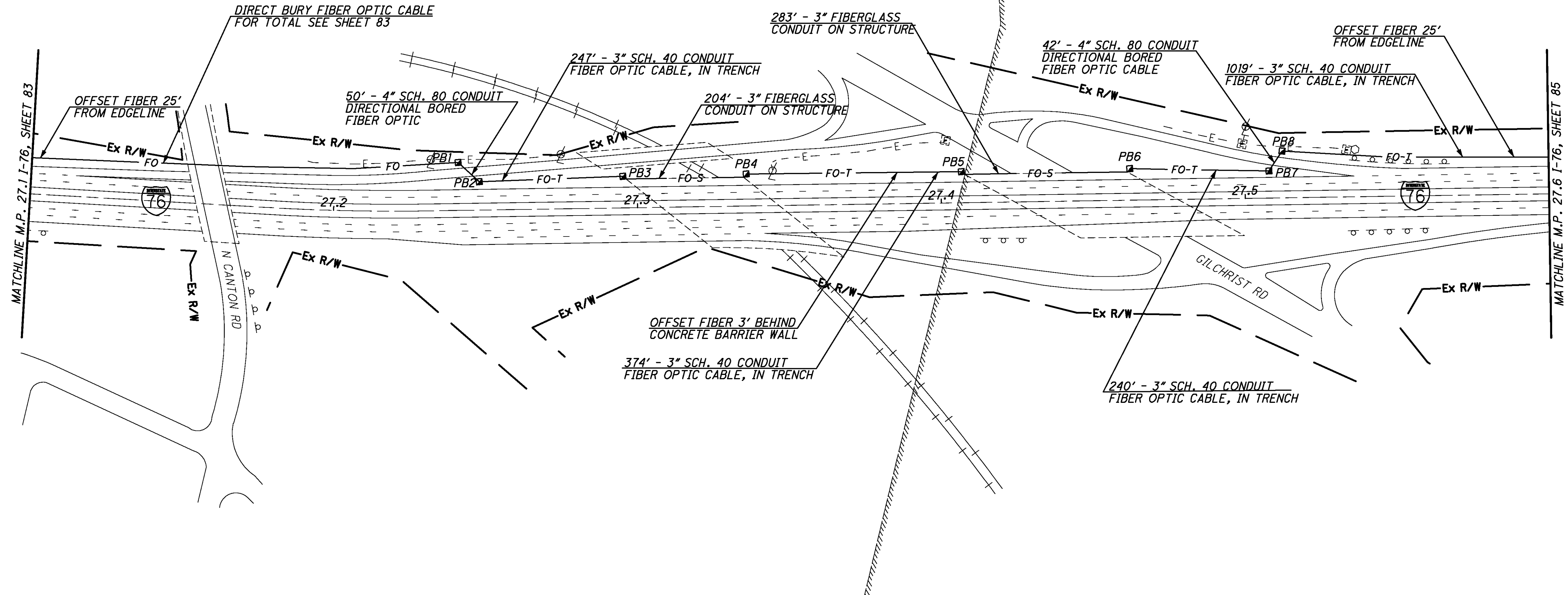
PROP. PULL BOX, 725.08: 32", PB4  
S.L.M. 27.34, 55' LT.

PROP. PULL BOX, 725.08: 32", PB5  
S.L.M. 27.41, 54' LT.

PROP. PULL BOX, 725.08: 32", PB6  
S.L.M. 27.46, 54' LT.

PROP. PULL BOX, 725.08: 32", PB7  
S.L.M. 27.51, 47' LT.

PROP. PULL BOX, 725.08: 32", PB8  
S.L.M. 27.51, 81' LT.



REFER TO SHEET 13 FOR TYPICAL CONDUIT ATTACHED TO STRUCTURE DETAILS

REFER TO SHEET 221 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR BRIDGE OVER AKRON CANTON AND YOUNGSTOWN RAILROAD

REFER TO SHEET 222 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR BRIDGE OVER GILCHRIST ROAD

NO FIELD DEVICE ON THIS SHEET

CITY OF AKRON  
SPRINGFIELD TWP

0 50 100 200  
HORIZONTAL SCALE IN FEET

CALCULATED STS  
CHECKED JDG

I-76 AT GILCHRIST RD (MP 27.1 TO MP 27.6)  
CITY OF AKRON, SUMMIT COUNTY

STA-SUM ITS

84  
390

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PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 27.70, 56' LT.

PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 27.89, 65' LT.



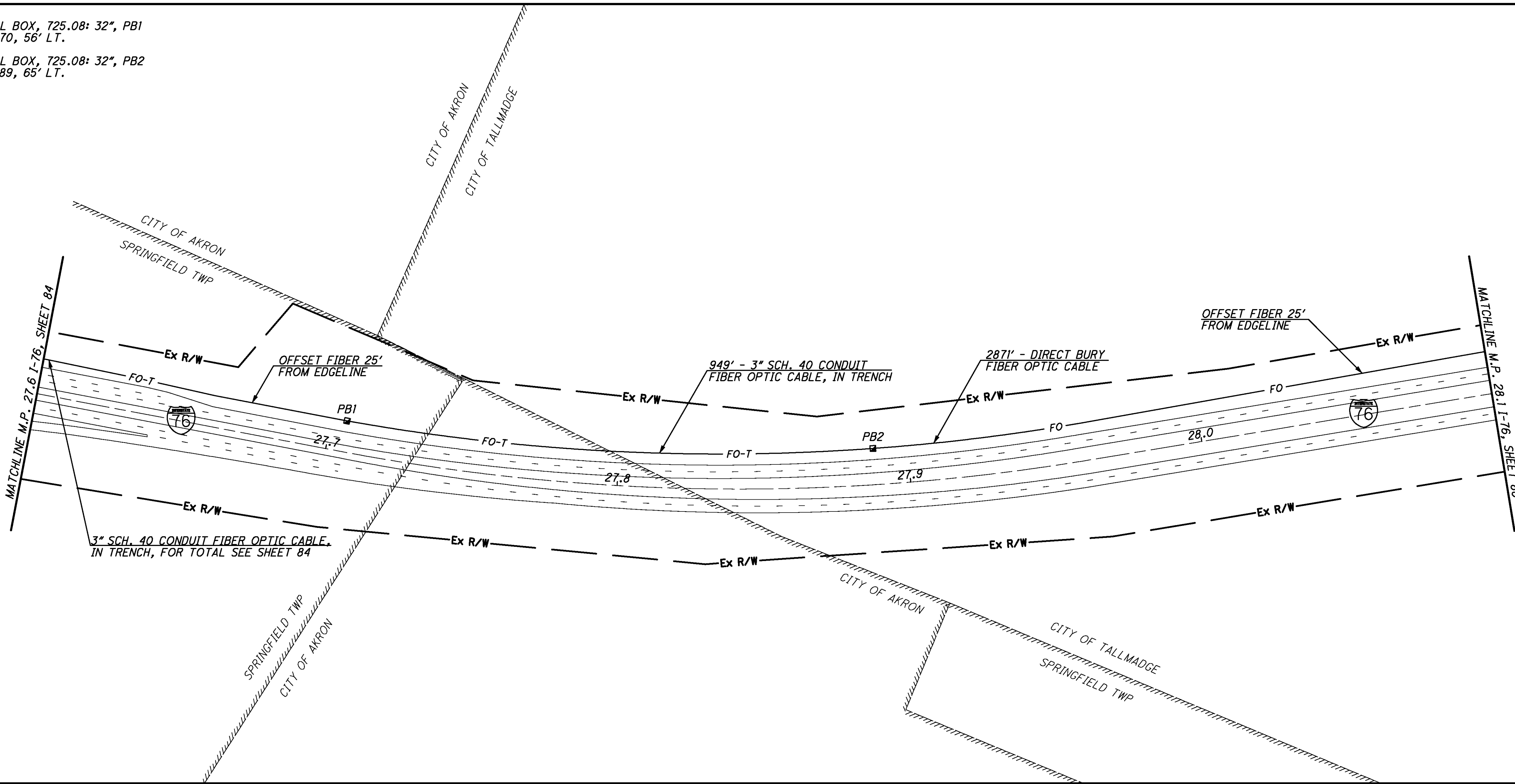
CALCULATED STS  
CHECKED JDG

I-76 E OF GILCHRIST RD (MP 27.6 TO MP 28.1)  
CITY OF TALLMADGE, SUMMIT COUNTY

STA - SUM ITS

85  
390

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NO FIELD DEVICE ON THIS SHEET



PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 28.43, 97' LT.

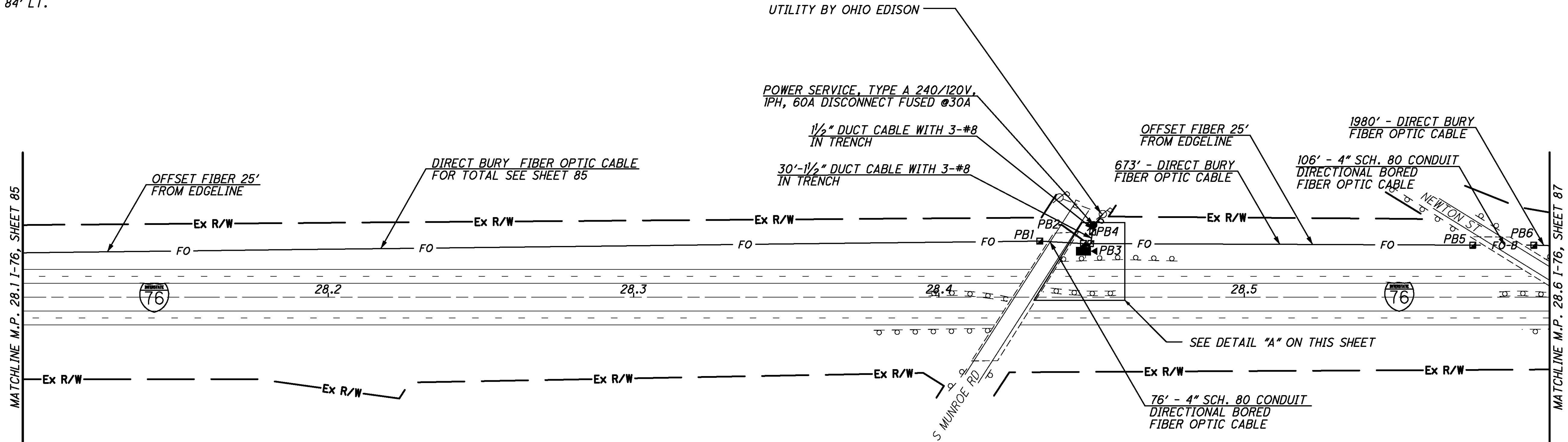
PROP. PULL BOX, 725.08: 18", PB4  
S.L.M. 28.45, 106' LT.

PROP. PULL BOX, 725.08: 48", PB2  
WITH SPLICE ASSEMBLY  
S.L.M. 28.45, 84' LT.

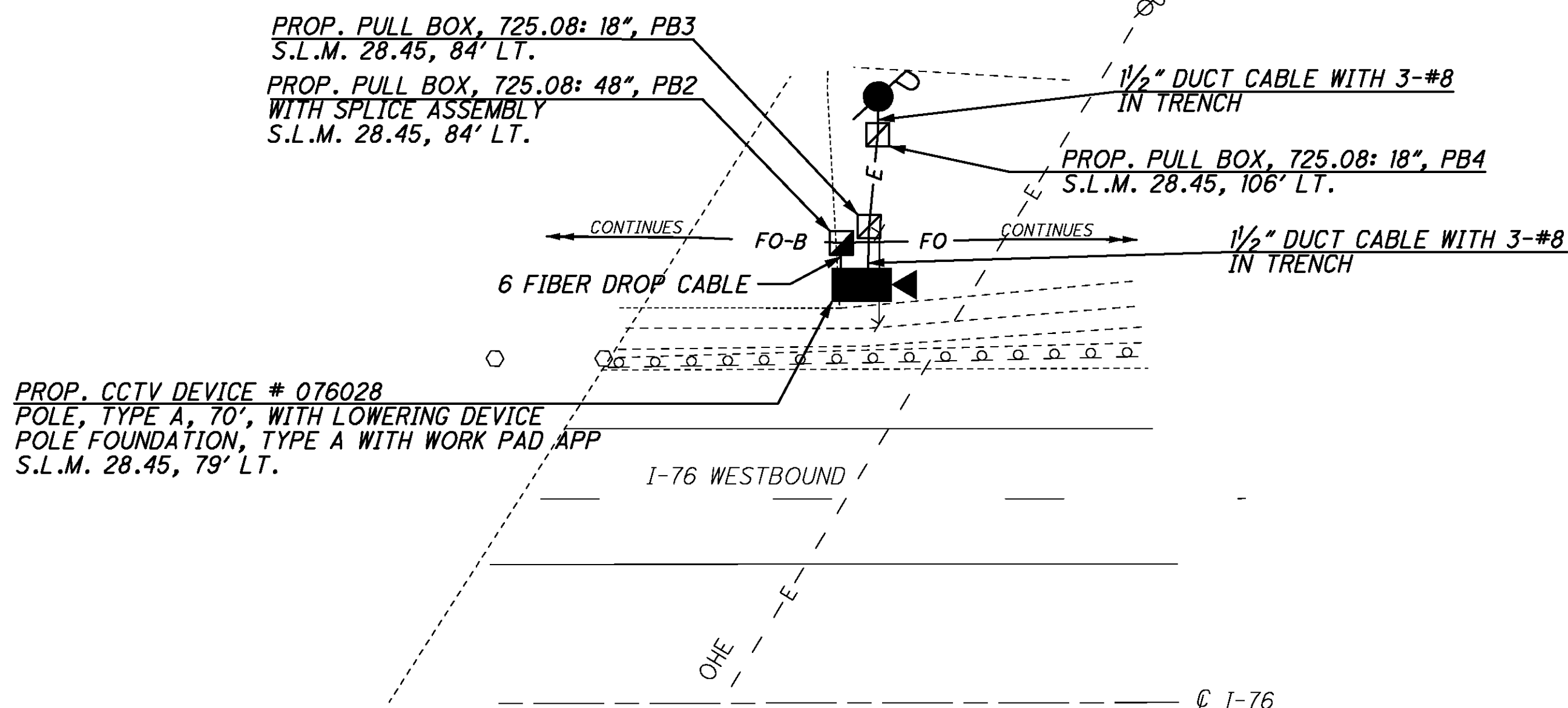
PROP. PULL BOX, 725.08: 32", PB5  
S.L.M. 28.57, 90' LT.

PROP. PULL BOX, 725.08: 18", PB3  
S.L.M. 28.45, 84' LT.

PROP. PULL BOX, 725.08: 32", PB6  
S.L.M. 28.59, 90' LT.



DETAIL "A" - 20 SCALE



REFER TO SHEET 23 FOR TYPICAL CCTV DETAILS  
REFER TO SHEET 303 FOR COMMUNICATION DETAILS

CALCULATED STS CHECKED JDG

0 50 100 200  
HORIZONTAL SCALE IN FEET

I-76 AT MUNROE RD (MP 28.1 TO MP 28.6)  
CITY OF TALLMADGE, SUMMIT COUNTY

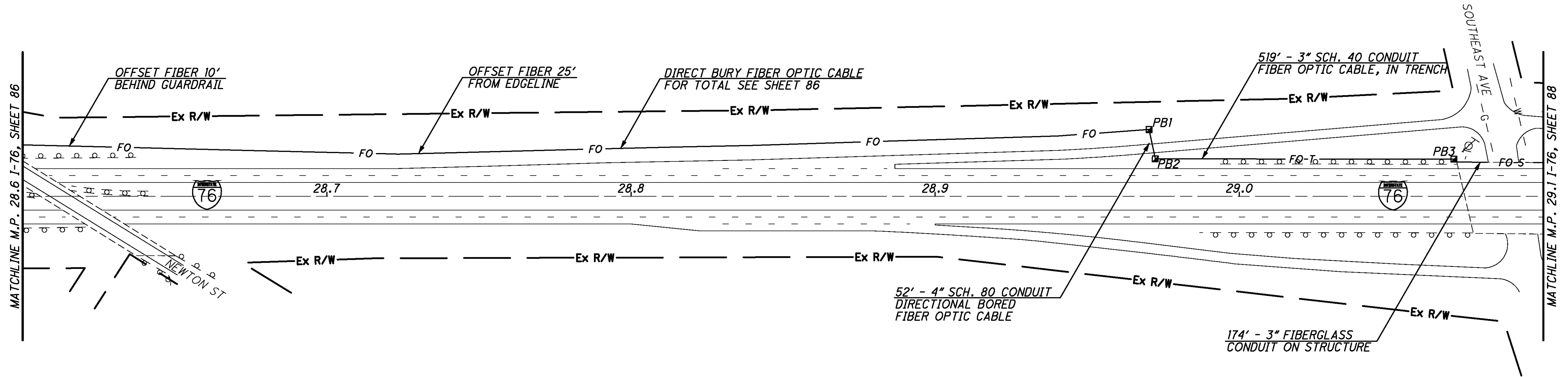
STA-SUM ITS

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PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 28.97, 116' LT.

PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 28.97, 65' LT.

PROP. PULL BOX, 725.08: 32", PB3  
S.L.M. 29.07, 65' LT.



REFER TO SHEET 13 FOR TYPICAL CONCUIT ATTACHED TO STRUCTURE DETAILS  
REFER TO SHEET 223 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR BRIDGE OVER SR-532

NO FIELD DEVICE ON THIS SHEET



CALCULATED STS  
CHECKED JDG

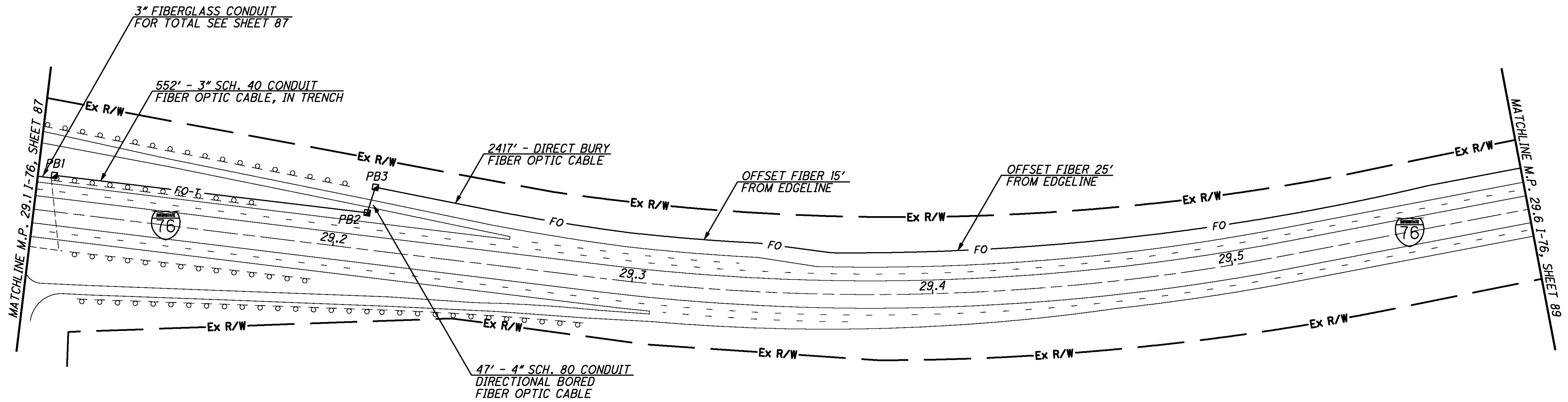
I-76 AT NEWTON ST (MP 28.6 TO MP 29.1)  
CITY OF TALLMADGE, SUMMIT COUNTY

STA-SUM ITS

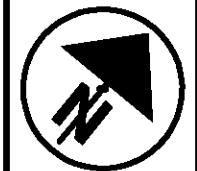
PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 29.11, 63' LT.

PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 29.21, 64' LT.

PROP. PULL BOX, 725.08: 32", PB3  
S.L.M. 29.21, 110' LT.



NO FIELD DEVICE ON THIS SHEET



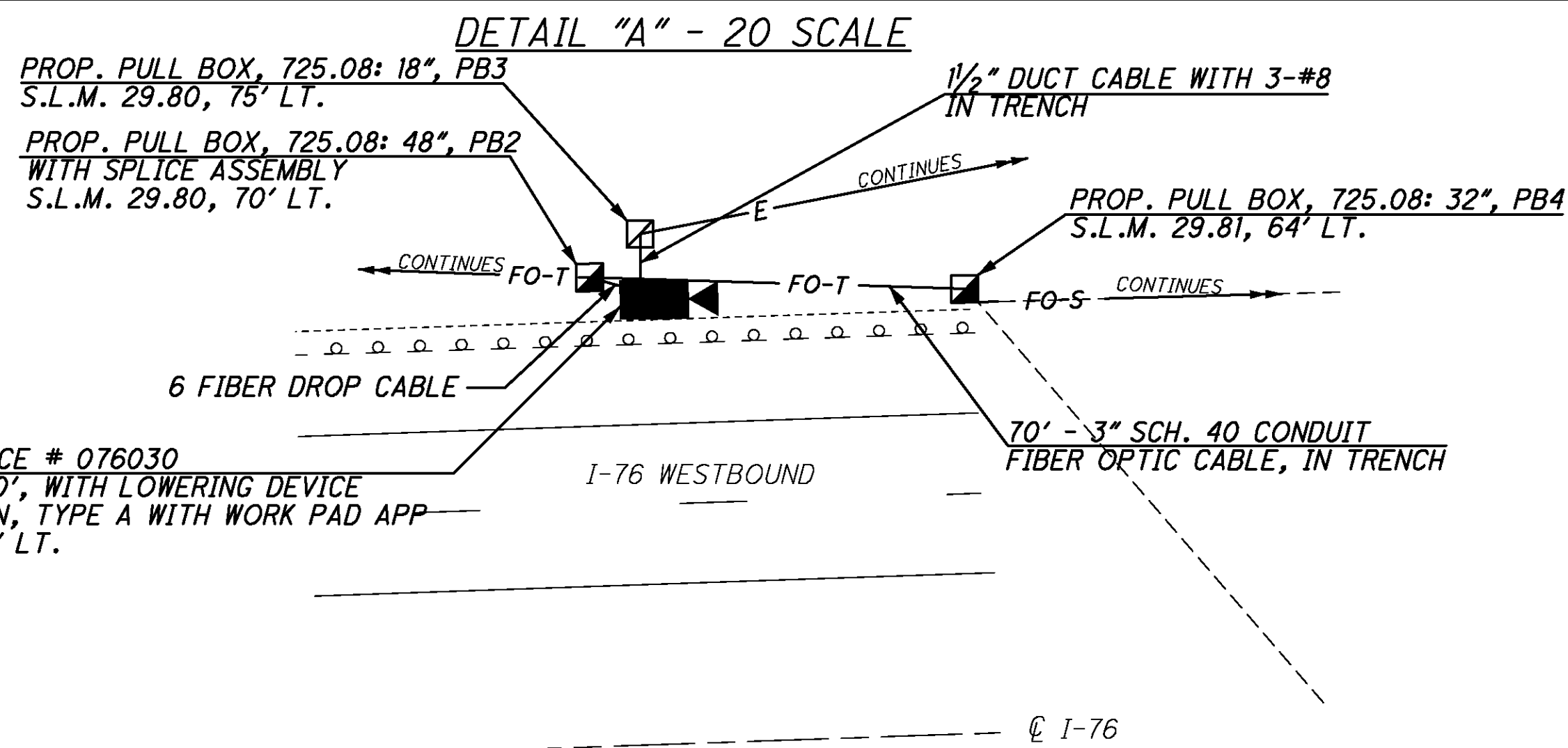
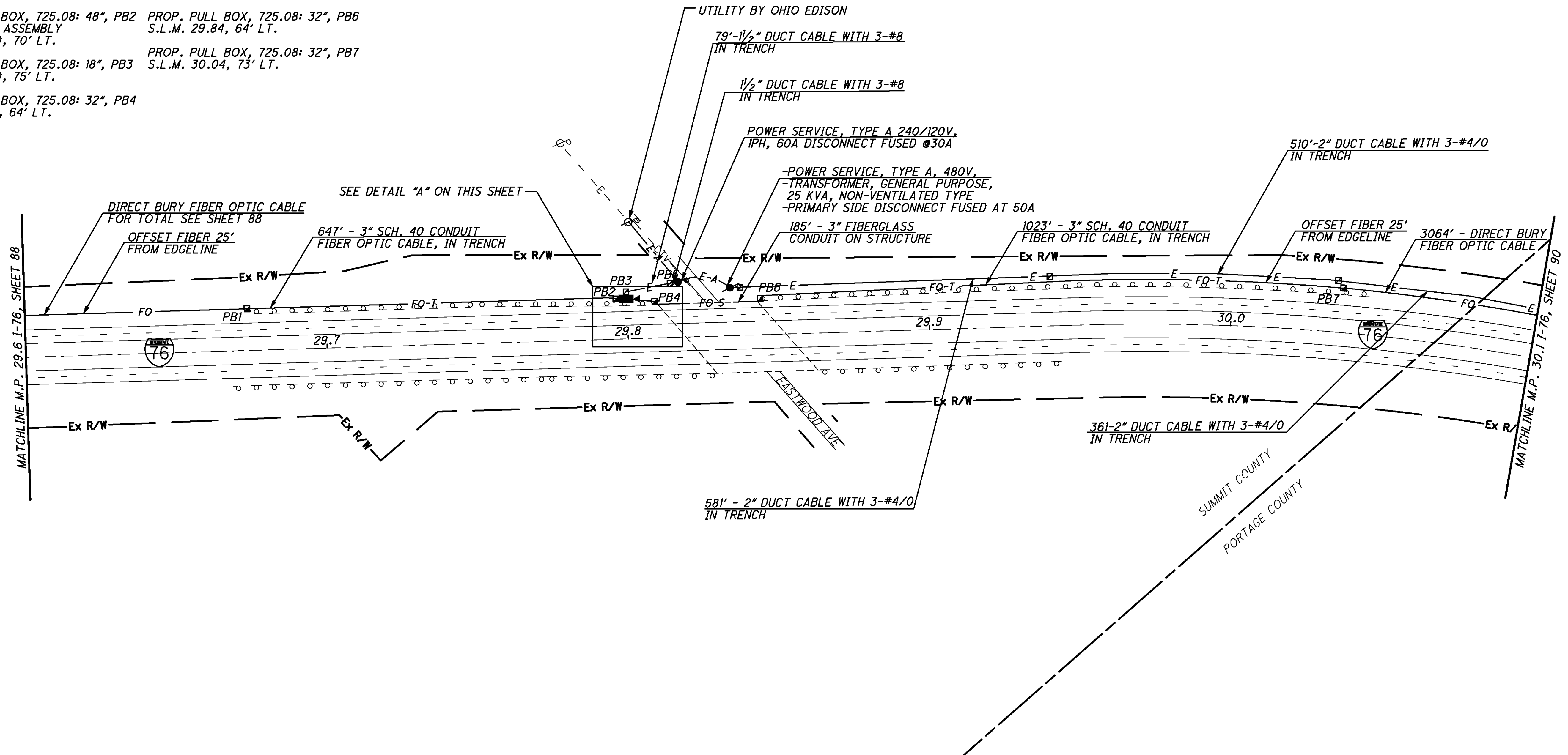
CALCULATED STS  
CHECKED JDG

I-76 AT SOUTHEAST AVE (MP 29.1 TO MP 29.6)  
CITY OF TALLMADGE, SUMMIT COUNTY

STA - SUM ITS

88  
390

PROP. PULL BOX, 725.08: 32", PB1 S.L.M. 29.67, 73' LT.  
 PROP. PULL BOX, 725.08: 18", PB5 S.L.M. 29.81, 95' LT.  
 PROP. PULL BOX, 725.08: 48", PB2 WITH SPLICE ASSEMBLY S.L.M. 29.80, 70' LT.  
 PROP. PULL BOX, 725.08: 32", PB6 S.L.M. 29.84, 64' LT.  
 PROP. PULL BOX, 725.08: 18", PB3 S.L.M. 29.80, 75' LT.  
 PROP. PULL BOX, 725.08: 32", PB7 S.L.M. 30.04, 73' LT.  
 PROP. PULL BOX, 725.08: 32", PB4 S.L.M. 29.81, 64' LT.



REFER TO SHEET 13 FOR TYPICAL CONDUIT ATTACHED TO STRUCTURE DETAILS  
 REFER TO SHEET 23 FOR TYPICAL CCTV DETAILS  
 REFER TO SHEET 224 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR BRIDGE OVER EASTWOOD AVENUE  
 REFER TO SHEET 304 FOR COMMUNICATION DETAILS

CALCULATED STS CHECKED JDG

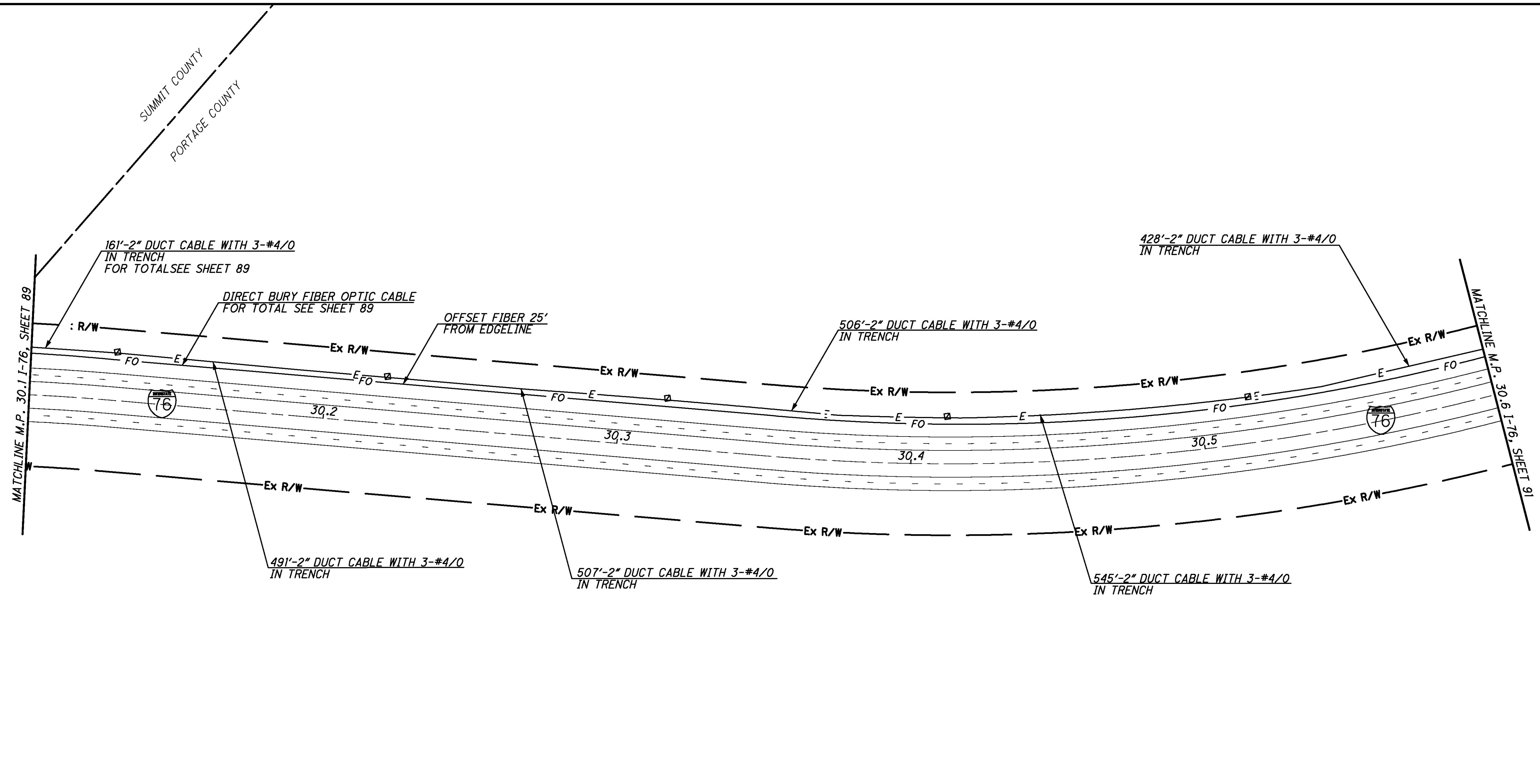
I-76 AT EASTWOOD AVE (MP 29.6 TO MP 30.1)  
 CITY OF TALLMADGE, SUMMIT COUNTY

STA-SUM ITS

89  
390

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NO FIELD DEVICE ON THIS SHEET



CALCULATED STS  
 CHECKED JDG

I-76 W OF TALLMADGE RD(MP 30.1 TO MP 30.6)  
 BRIMFIELD TOWNSHIP, PORTAGE COUNTY

STA - SUM ITS

90  
390

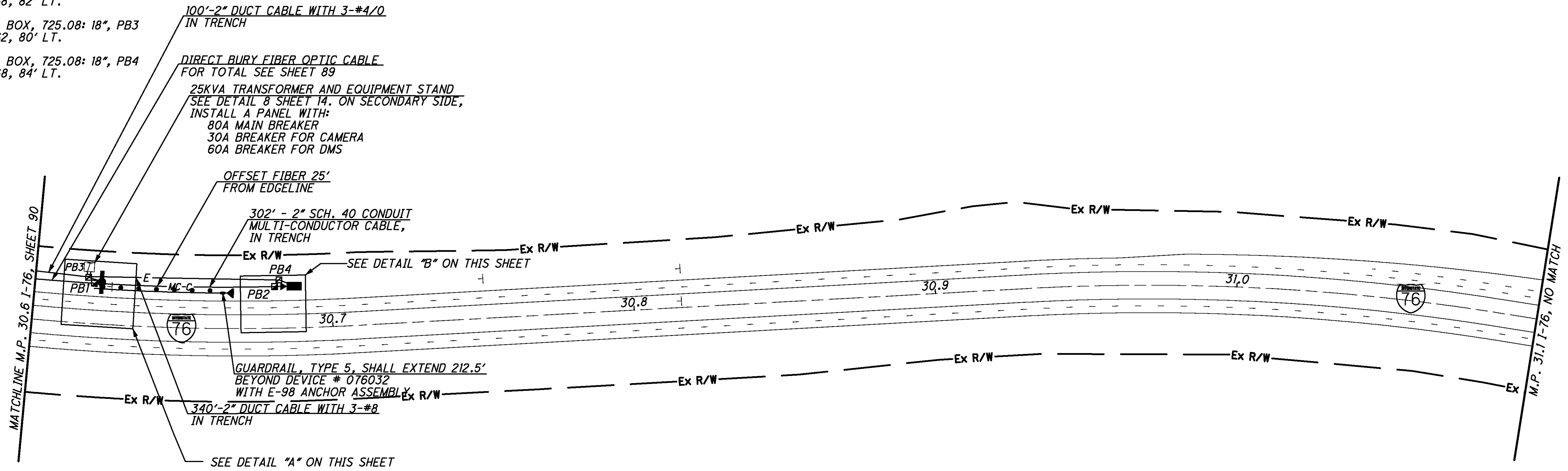


PROP. PULL BOX, 725.08: 48", PB1  
WITH SPLICE ASSEMBLY  
S.L.M. 30.62, 73' LT.

PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 30.68, 82' LT.

PROP. PULL BOX, 725.08: 18", PB3  
S.L.M. 30.62, 80' LT.

PROP. PULL BOX, 725.08: 18", PB4  
S.L.M. 30.68, 84' LT.

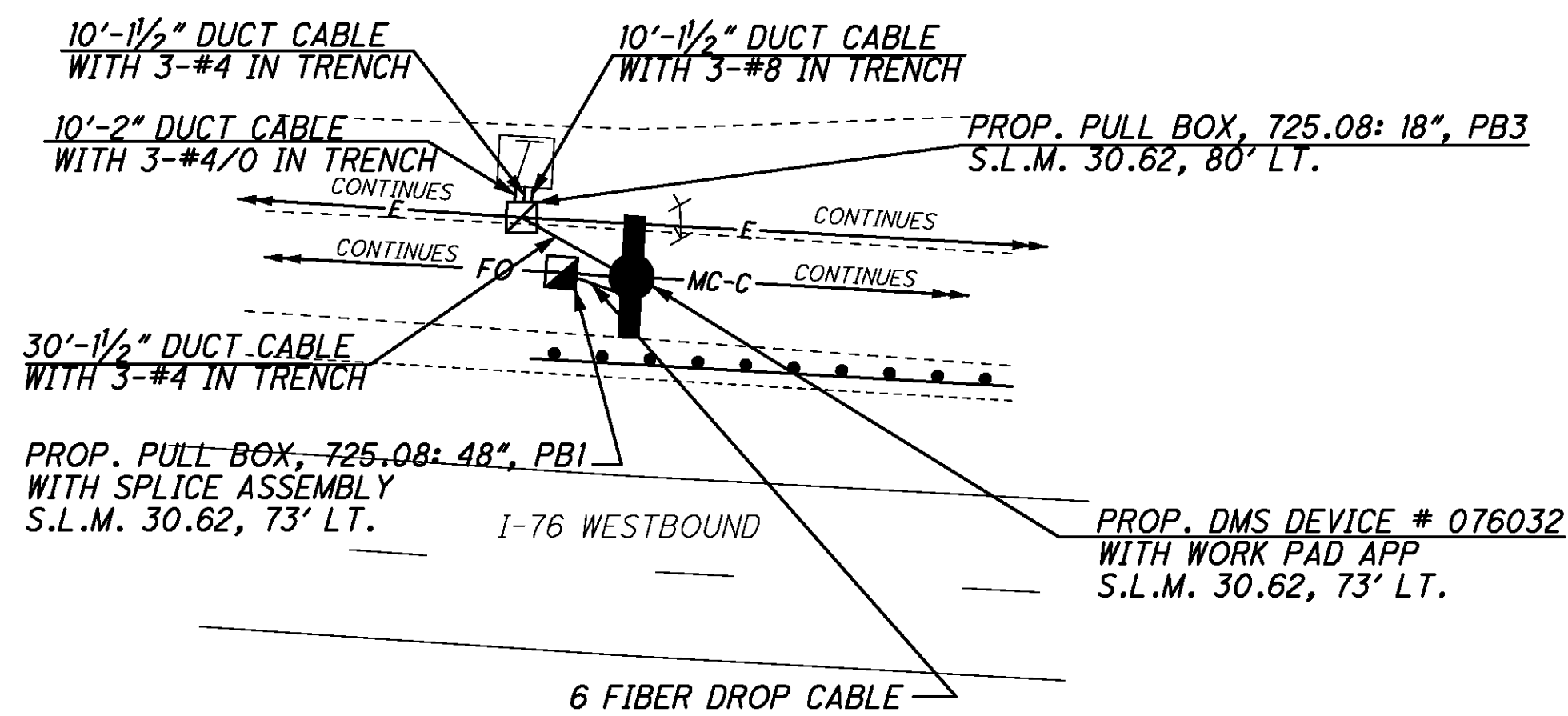


CALCULATED STS  
CHECKED JDG

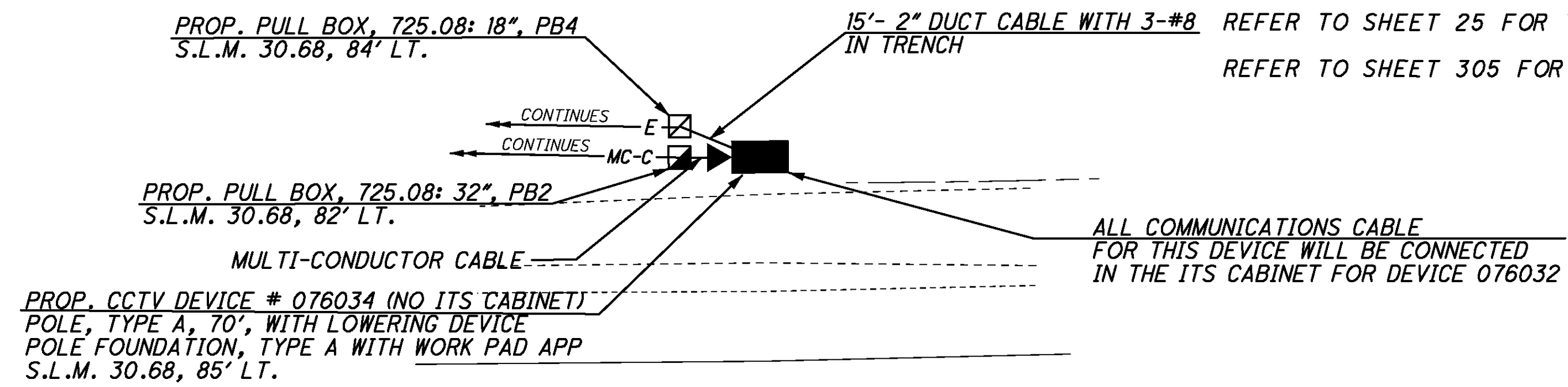
I-76 W OF TALLMADGE RD(MP 30.6 TO MP 31.1)  
BRIMFIELD TOWNSHIP, PORTAGE COUNTY

STA-SUM ITS

DETAIL "A" - 20 SCALE



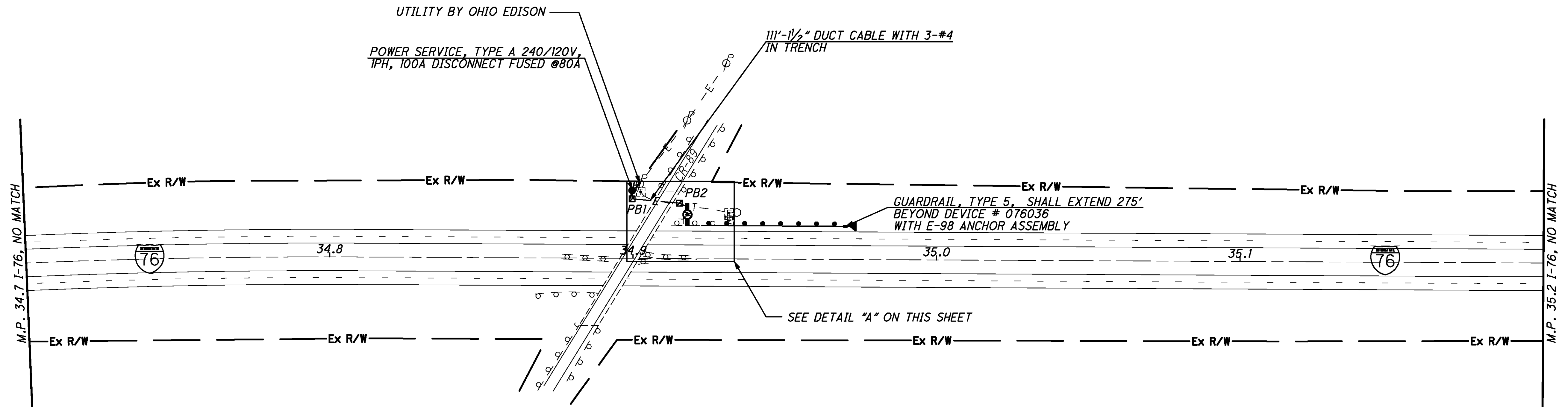
DETAIL "B" - 20 SCALE



℄ I-76

PROP. PULL BOX, 725.08: 18", PBI  
S.L.M. 34.90, 104' LT.

PROP. PULL BOX, 725.08: 18", PB2  
S.L.M. 34.92, 77' LT.



CALCULATED STS  
CHECKED JDG

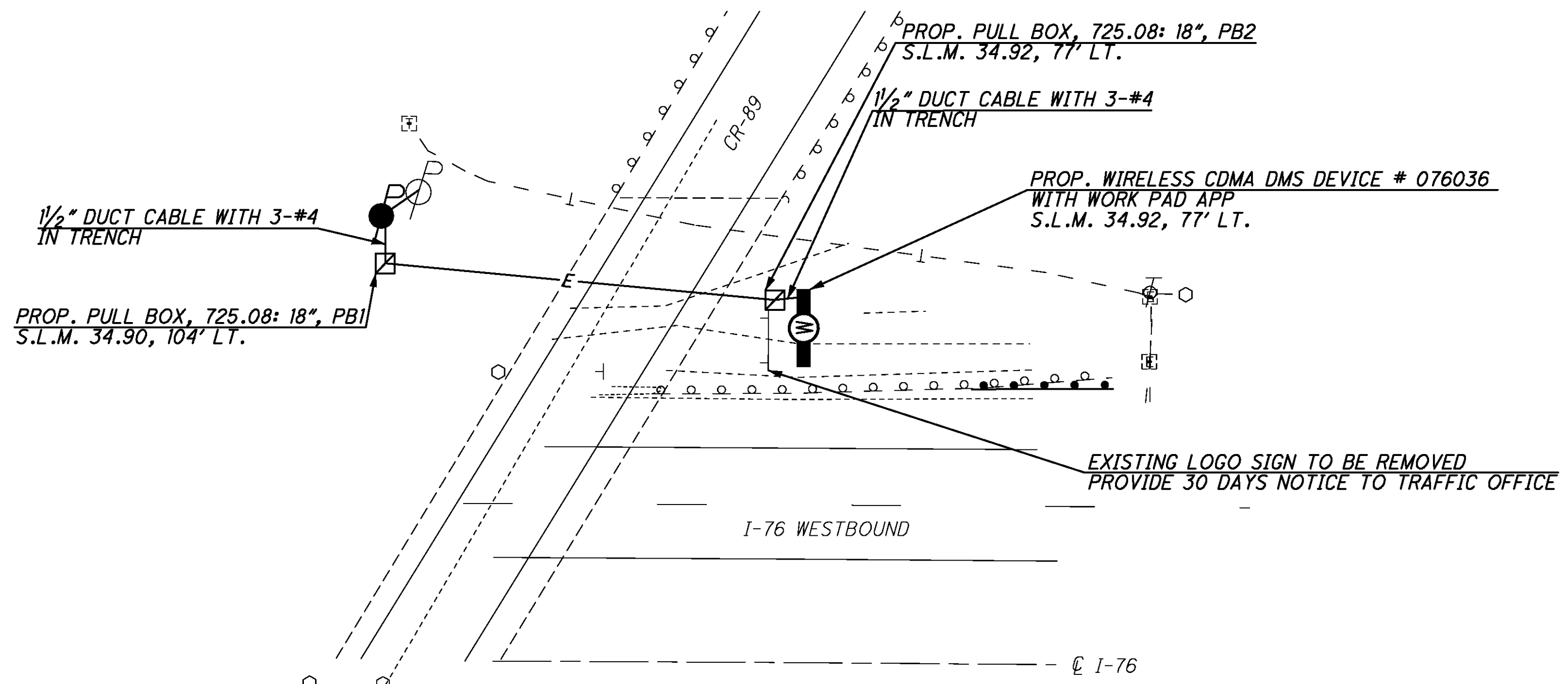
0 50 100 200  
HORIZONTAL SCALE IN FEET

I-76 AT CR-89 (MP 34.7 TO MP 35.2)  
BRIMFIELD TOWNSHIP, PORTAGE COUNTY

STA-SUM ITS

92  
390

DETAIL "A" - 20 SCALE



REFER TO SHEET 25 FOR TYPICAL DMS DETAILS  
REFER TO SHEET 306 FOR COMMUNICATION DETAILS

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DMS 076036

PROP. PULL BOX, 725.08: 18", PB1  
S.L.M. 101.27, 115' RT.

PROP. PULL BOX, 725.08: 18", PB2  
S.L.M. 101.26, 222' RT.

PROP. PULL BOX, 725.08: 18", PB3  
S.L.M. 101.26, 259' RT.

PROP. PULL BOX, 725.08: 18", PB4  
S.L.M. 101.26, 276' RT.

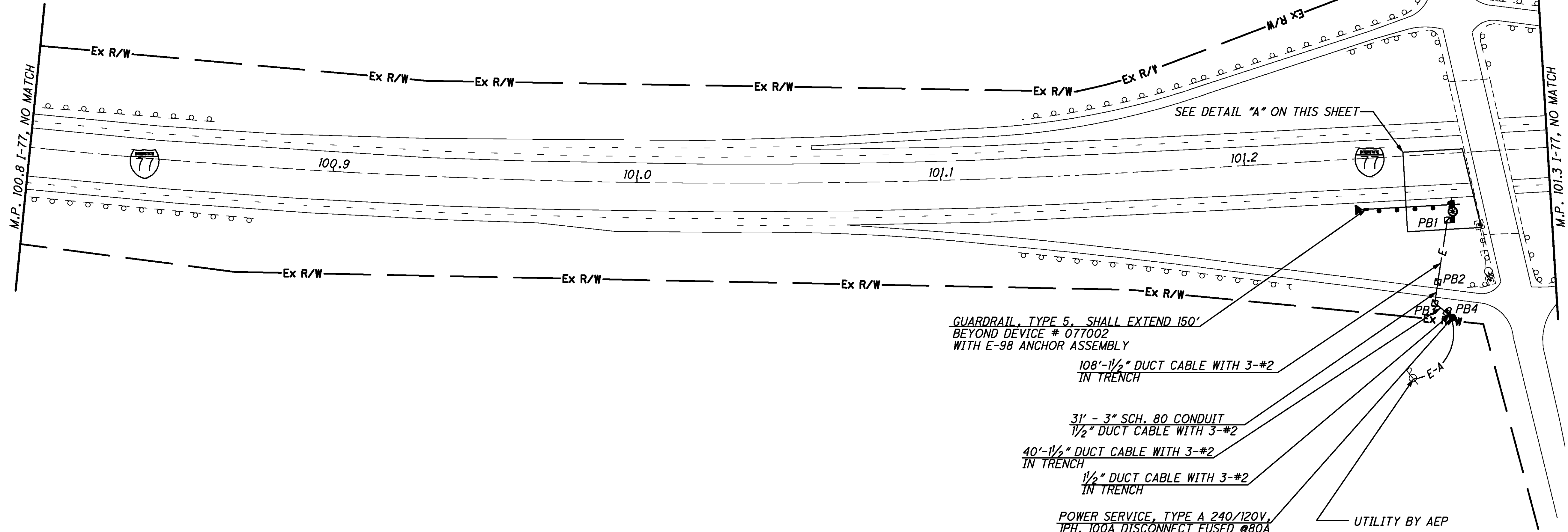


CALCULATED STS  
CHECKED JDG

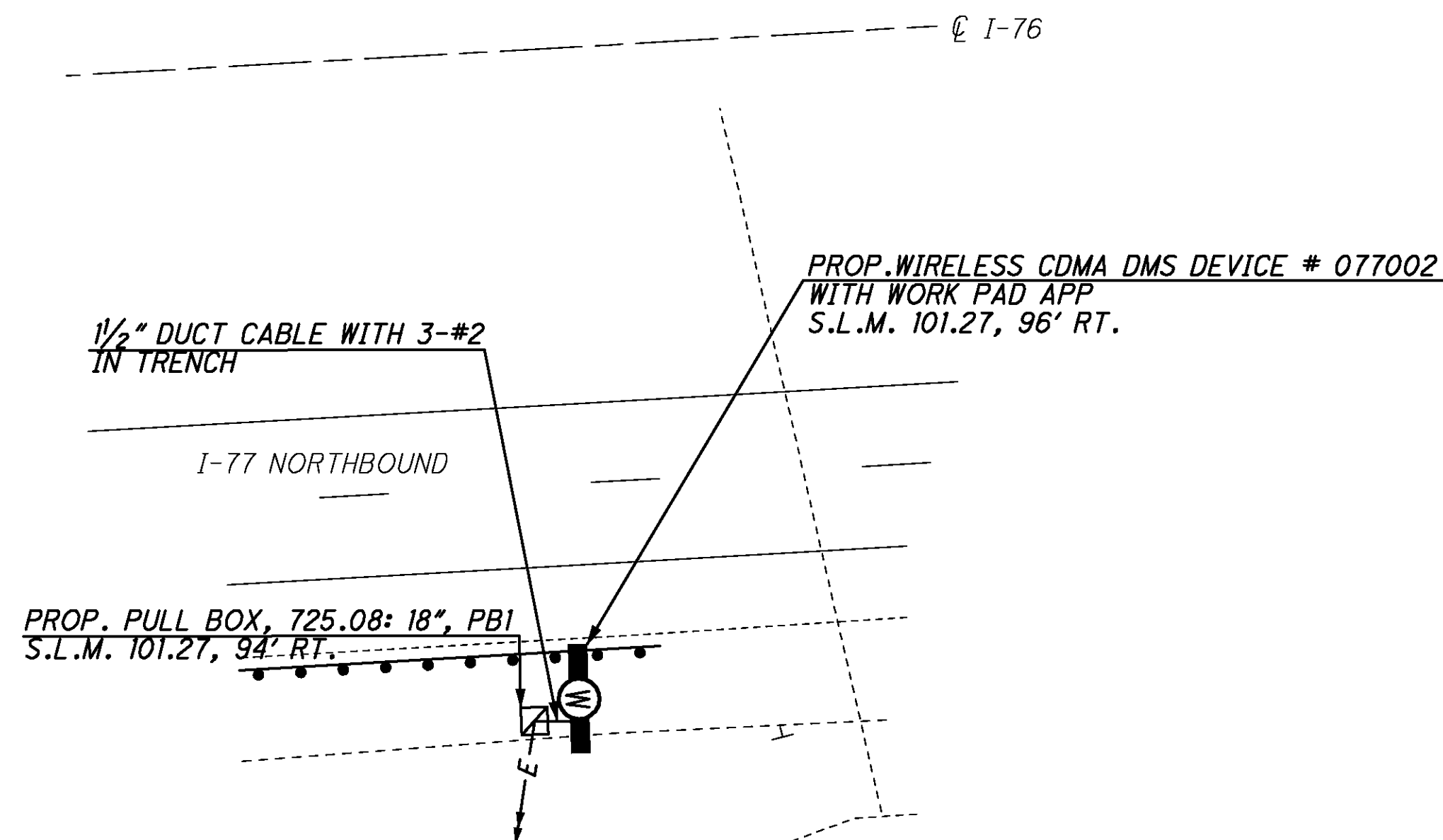
I-77 AT FAIRCRESS ST (MP 100.8 TO MP 101.3)  
CITY OF CANTON, STARK COUNTY

STA-SUM ITS

93  
390

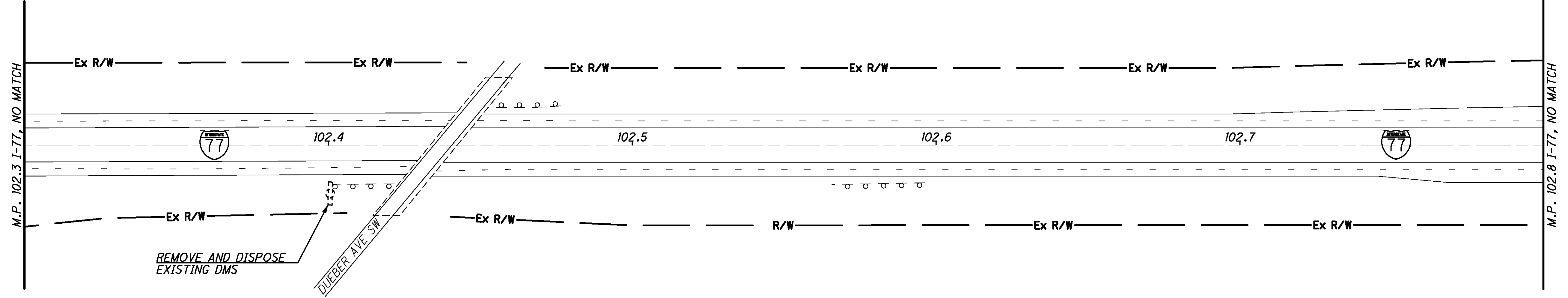


DETAIL "A" - 20 SCALE



REFER TO SHEET 25 FOR TYPICAL DMS DETAILS  
REFER TO SHEET 307 FOR COMMUNICATION DETAILS

DMS 077002



NO FIELD DEVICE ON THIS SHEET

CALCULATED STS	CHECKED JDG
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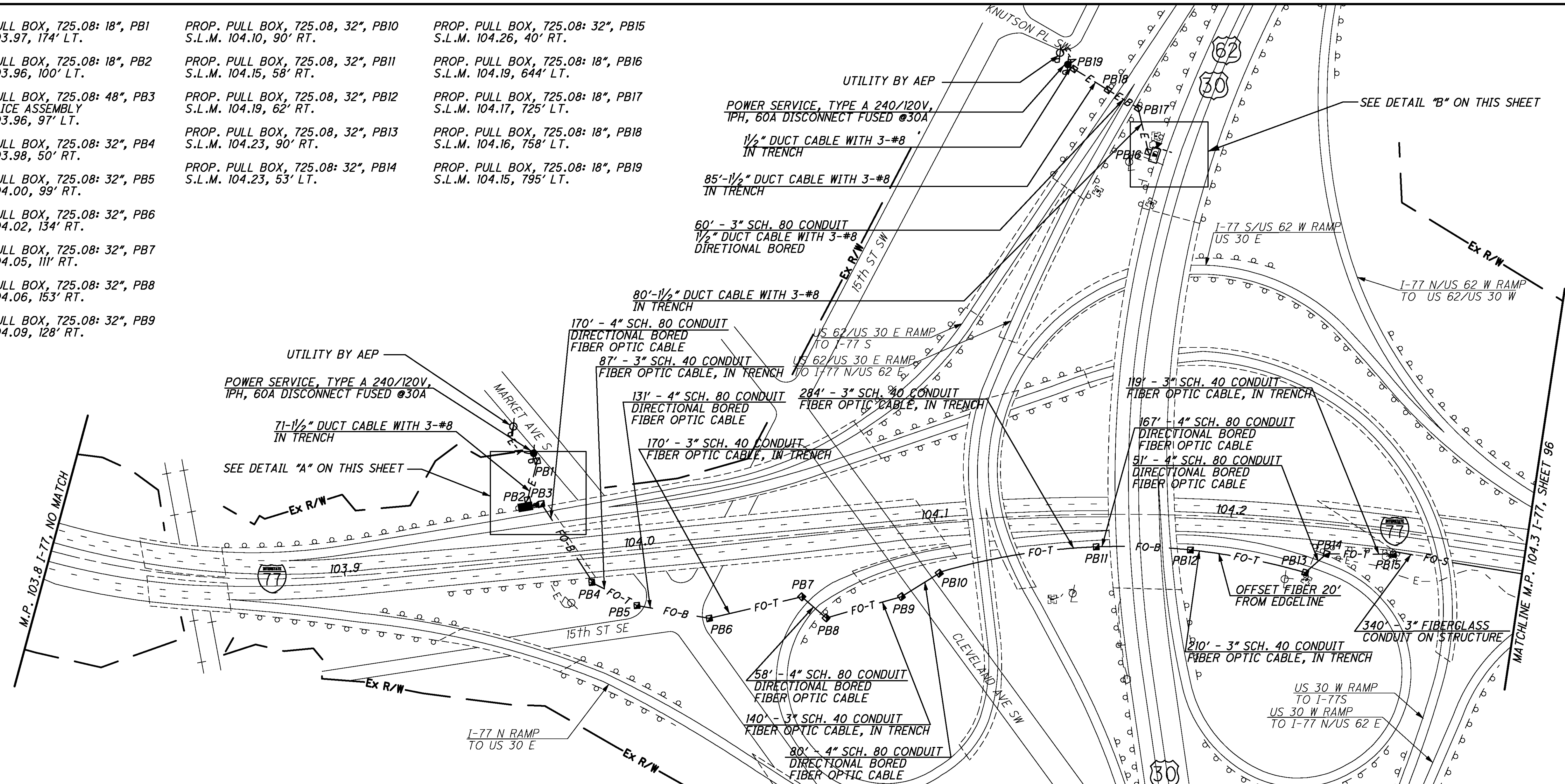
I-77 AT DUEBER AVE (MP 102.3 TO MP 102.8)  
CITY OF CANTON, STARK COUNTY

STA - SUM ITS	94 390
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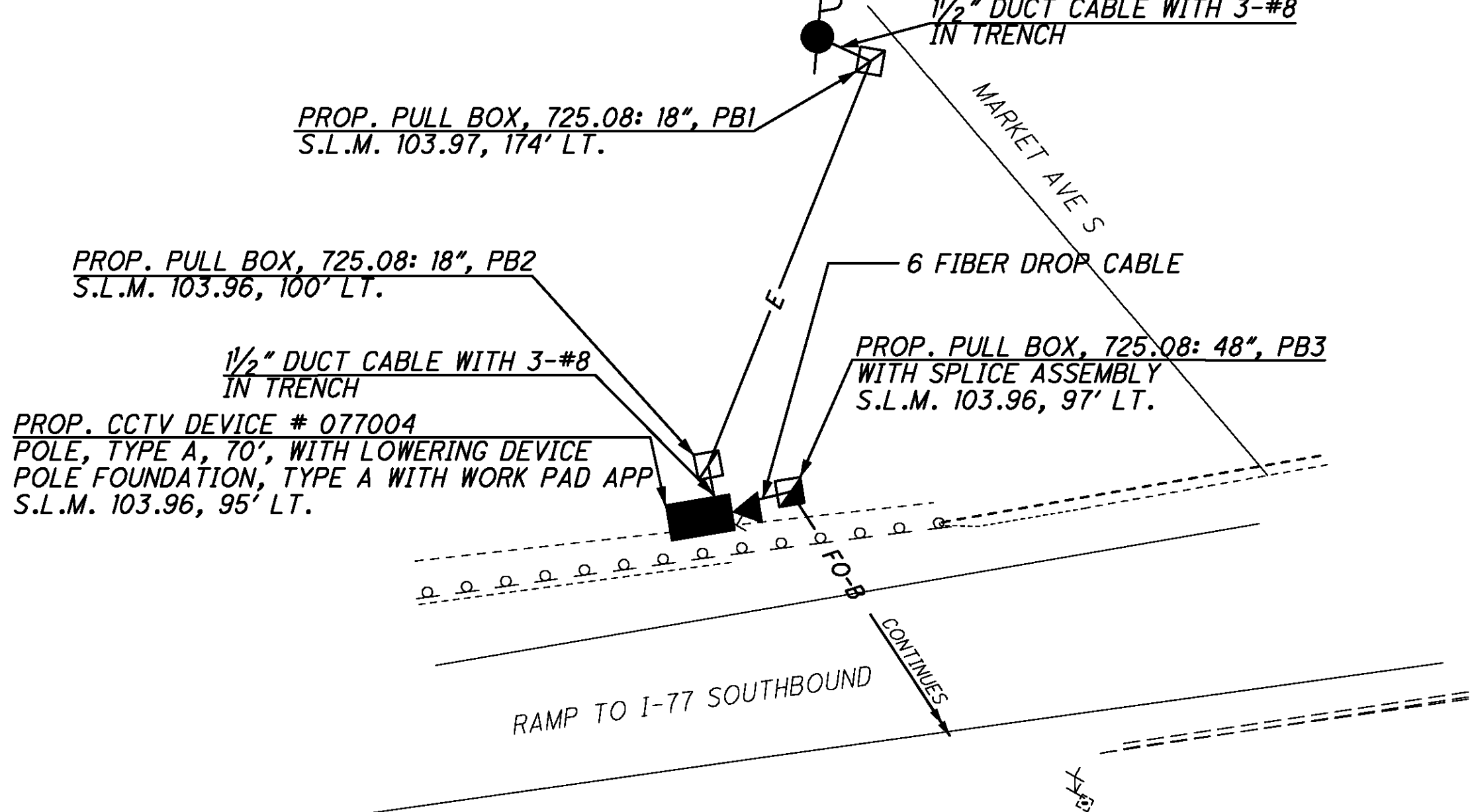


- PROP. PULL BOX, 725.08: 18", PB1  
S.L.M. 103.97, 174' LT.
- PROP. PULL BOX, 725.08: 18", PB2  
S.L.M. 103.96, 100' LT.
- PROP. PULL BOX, 725.08: 48", PB3  
WITH SPLICE ASSEMBLY  
S.L.M. 103.96, 97' LT.
- PROP. PULL BOX, 725.08: 32", PB4  
S.L.M. 103.98, 50' RT.
- PROP. PULL BOX, 725.08: 32", PB5  
S.L.M. 104.00, 99' RT.
- PROP. PULL BOX, 725.08: 32", PB6  
S.L.M. 104.02, 134' RT.
- PROP. PULL BOX, 725.08: 32", PB7  
S.L.M. 104.05, 111' RT.
- PROP. PULL BOX, 725.08: 32", PB8  
S.L.M. 104.06, 153' RT.
- PROP. PULL BOX, 725.08: 32", PB9  
S.L.M. 104.09, 128' RT.
- PROP. PULL BOX, 725.08, 32", PB10  
S.L.M. 104.10, 90' RT.
- PROP. PULL BOX, 725.08, 32", PB11  
S.L.M. 104.15, 58' RT.
- PROP. PULL BOX, 725.08, 32", PB12  
S.L.M. 104.19, 62' RT.
- PROP. PULL BOX, 725.08, 32", PB13  
S.L.M. 104.23, 90' RT.
- PROP. PULL BOX, 725.08: 32", PB14  
S.L.M. 104.23, 53' LT.
- PROP. PULL BOX, 725.08: 32", PB15  
S.L.M. 104.26, 40' RT.
- PROP. PULL BOX, 725.08: 18", PB16  
S.L.M. 104.19, 644' LT.
- PROP. PULL BOX, 725.08: 18", PB17  
S.L.M. 104.17, 725' LT.
- PROP. PULL BOX, 725.08: 18", PB18  
S.L.M. 104.16, 758' LT.
- PROP. PULL BOX, 725.08: 18", PB19  
S.L.M. 104.15, 795' LT.

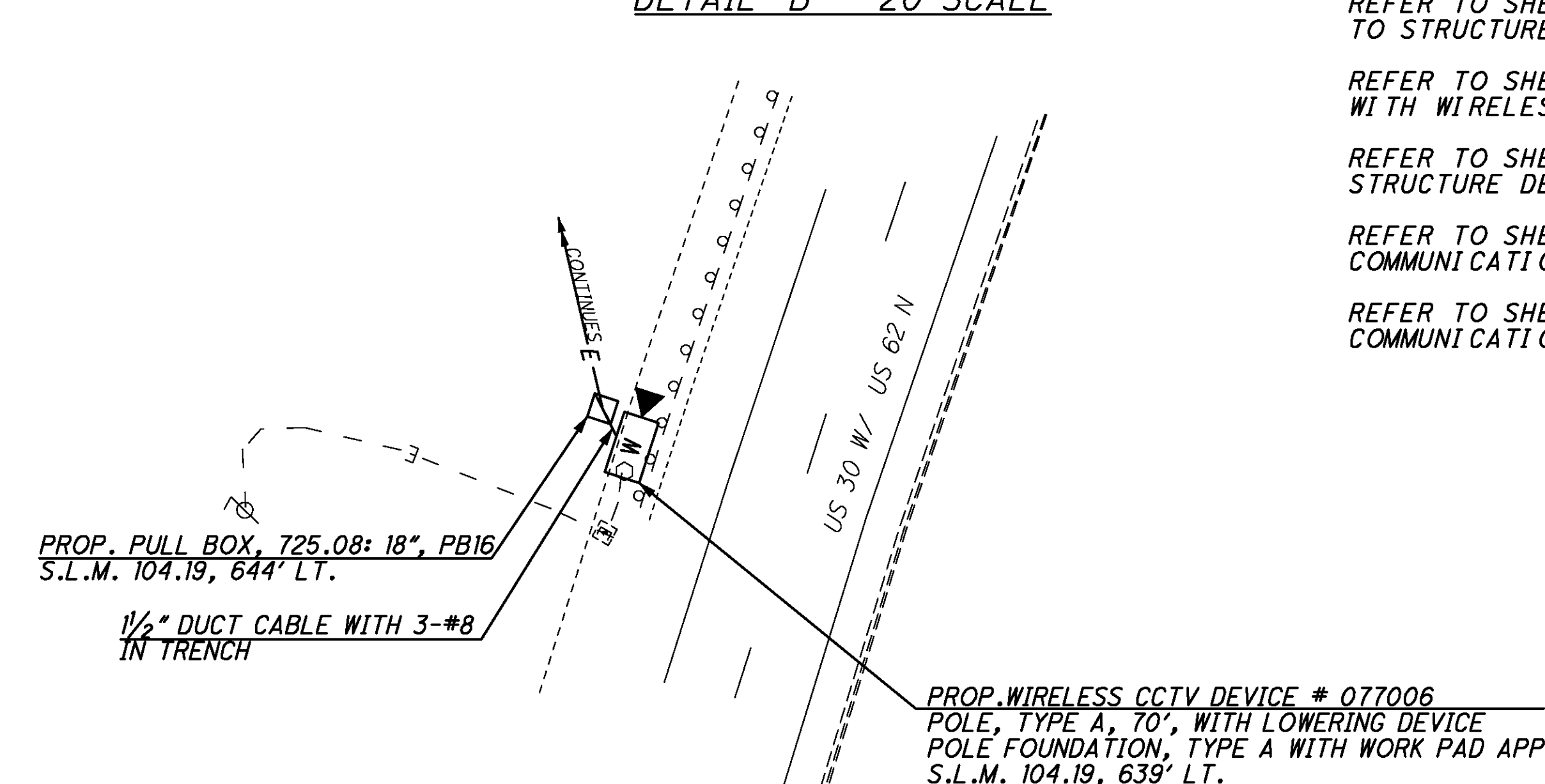
- PROP. PULL BOX, 725.08: 32", PB10  
S.L.M. 104.10, 90' RT.
- PROP. PULL BOX, 725.08, 32", PB11  
S.L.M. 104.15, 58' RT.
- PROP. PULL BOX, 725.08, 32", PB12  
S.L.M. 104.19, 62' RT.
- PROP. PULL BOX, 725.08: 32", PB13  
S.L.M. 104.23, 90' RT.
- PROP. PULL BOX, 725.08: 32", PB14  
S.L.M. 104.23, 53' LT.
- PROP. PULL BOX, 725.08: 32", PB15  
S.L.M. 104.26, 40' RT.
- PROP. PULL BOX, 725.08: 18", PB16  
S.L.M. 104.19, 644' LT.
- PROP. PULL BOX, 725.08: 18", PB17  
S.L.M. 104.17, 725' LT.
- PROP. PULL BOX, 725.08: 18", PB18  
S.L.M. 104.16, 758' LT.
- PROP. PULL BOX, 725.08: 18", PB19  
S.L.M. 104.15, 795' LT.



DETAIL "A" - 20 SCALE



DETAIL "B" - 20 SCALE



REFER TO SHEET 13 FOR TYPICAL CONDUIT ATTACHED TO STRUCTURE DETAILS

REFER TO SHEET 23 FOR TYPICAL CCTV WITH WIRELESS RADIO DETAILS

REFER TO SHEET 225 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR BRIDGE OVER NIMISHILLEN CREEK

REFER TO SHEET 308 FOR CCTV DEVICE NO. 077004 COMMUNICATION DETAILS

REFER TO SHEET 309 FOR CCTV DEVICE NO. 077006 COMMUNICATION DETAILS

CCTV 077004  
CCTV 077006

SCALE IN FEET  
0 50 100 200

CALCULATED STS CHECKED JDG

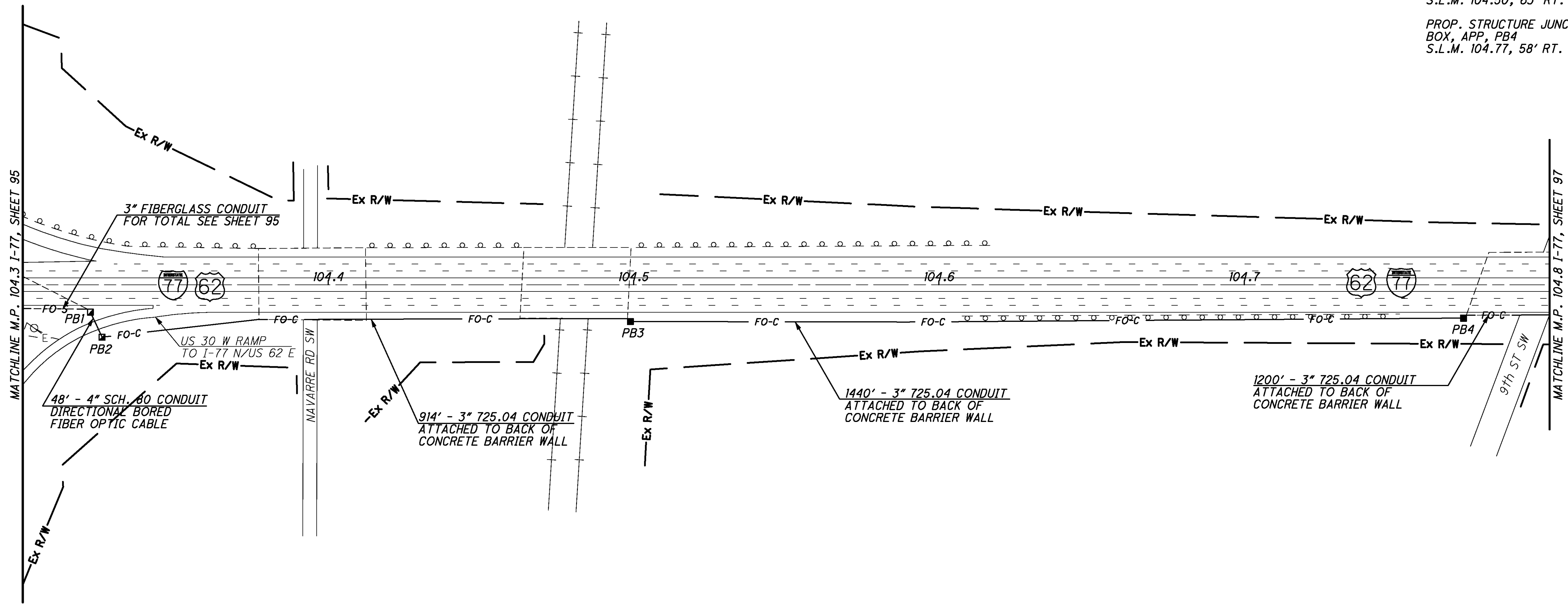
**I-77 AT US-30 (MP 103.8 TO MP 104.3)  
CITY OF CANTON, STARK COUNTY**

**STA-SUM ITS**

95  
390

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PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 104.32, 47' RT.

PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 104.33, 90' RT.

PROP. STRUCTURE JUNCTION  
BOX, APP, PB3  
S.L.M. 104.50, 63' RT.

PROP. STRUCTURE JUNCTION  
BOX, APP, PB4  
S.L.M. 104.77, 58' RT.

CALCULATED STS  
CHECKED JDG

0 50 100 200  
HORIZONTAL SCALE IN FEET

I-77 AT NAVARRE RD (MP 104.3 TO MP 104.8)  
CITY OF CANTON, STARK COUNTY

STA-SUM ITS

96  
390

REFER TO SHEET 15 FOR GROUND TO CONCRETE WALL CONDUIT TRANSITION

NO FIELD DEVICE ON THIS SHEET

PROP. STRUCTURE JUNCTION  
BOX, APP, PB1  
S.L.M. 105.00, 78' RT.

PROP. STRUCTURE JUNCTION  
BOX, APP, PB2  
S.L.M. 105.04, 87' RT.

PROP. PULL BOX, 725.08: 32", PB3  
S.L.M. 105.09, 128' RT.

PROP. PULL BOX, 725.08: 32", PB4  
S.L.M. 105.09, 90' RT.

PROP. PULL BOX, 725.08: 48", PB5  
WITH SPLICE ASSEMBLY  
S.L.M. 105.13, 127' RT.

PROP. PULL BOX, 725.08: 18", PB6  
S.L.M. 105.13, 132' RT.

PROP. PULL BOX, 725.08: 32", PB7  
S.L.M. 105.16, 100' RT.

PROP. PULL BOX, 725.08: 32", PB8  
S.L.M. 105.16, 137' RT.

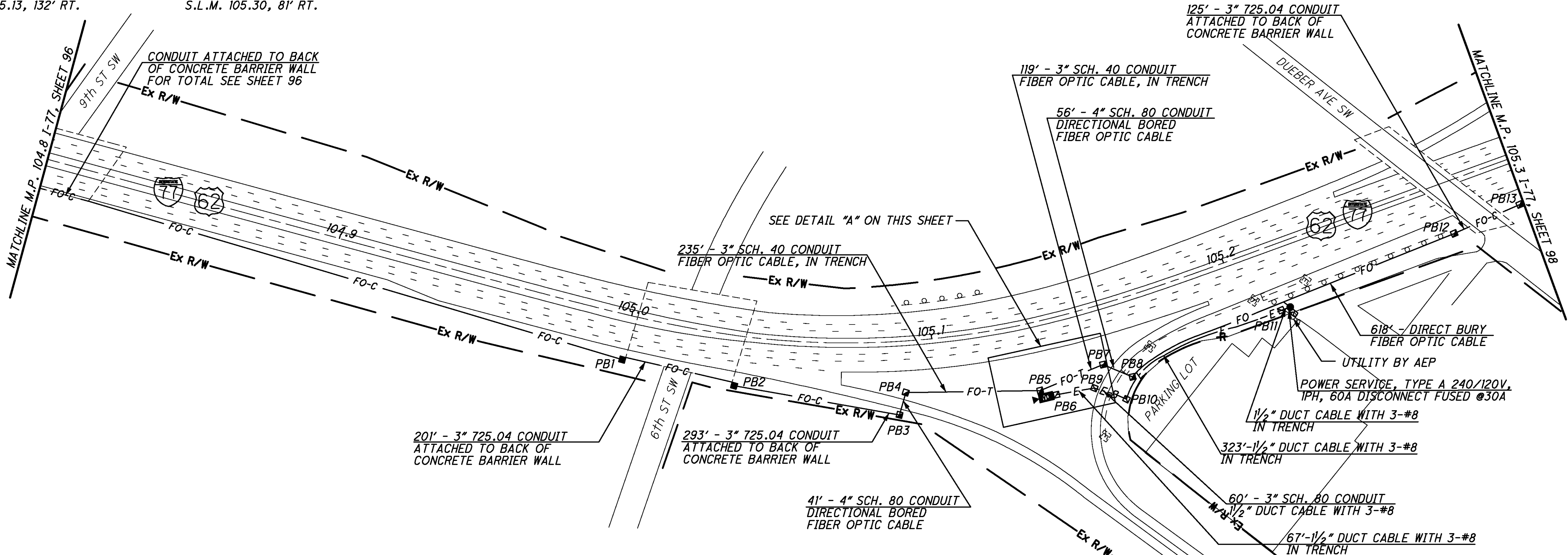
PROP. PULL BOX, 725.08: 18", PB9  
S.L.M. 105.16, 140' RT.

PROP. PULL BOX, 725.08: 18", PB10  
S.L.M. 105.15, 159' RT.

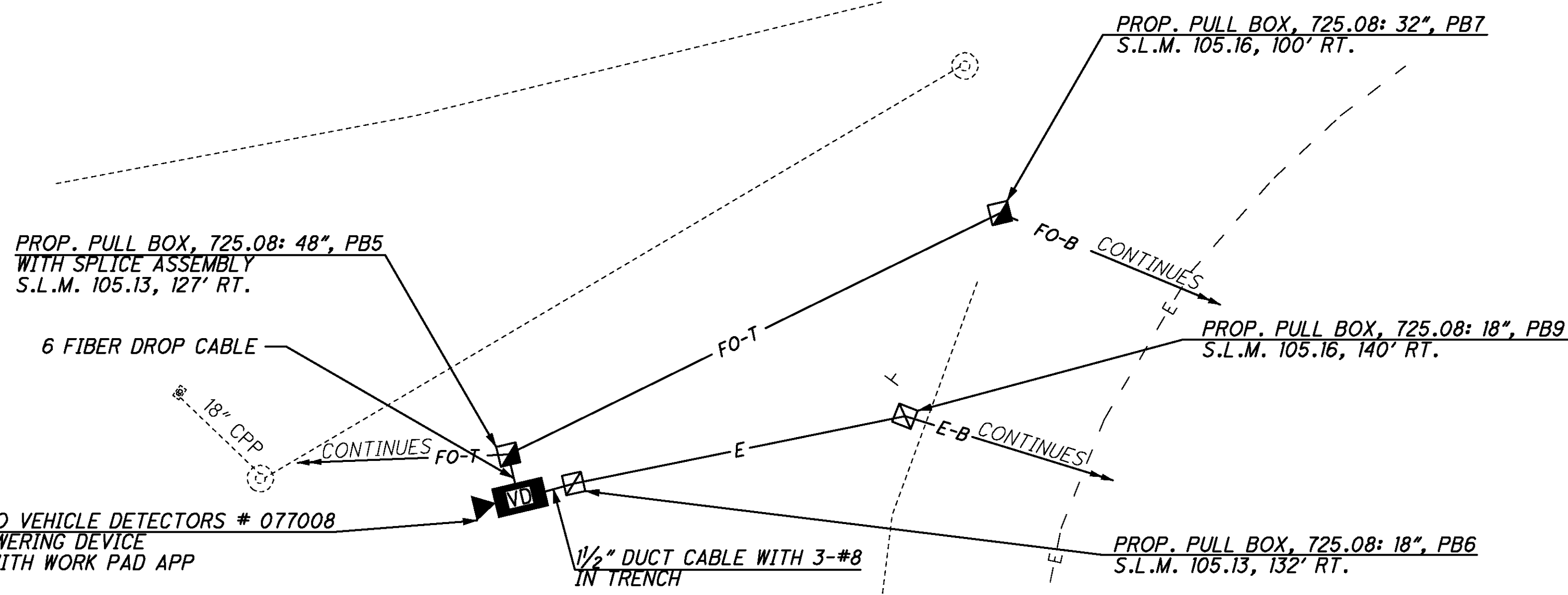
PROP. PULL BOX, 725.08: 18", PB11  
S.L.M. 105.21, 113' RT.

PROP. PULL BOX, 725.08: 32", PB12  
S.L.M. 105.28, 89' RT.

PROP. PULL BOX, 725.08: 32", PB13  
S.L.M. 105.30, 81' RT.



DETAIL "A" - 20 SCALE



REFER TO SHEET 13 FOR TYPICAL CONDUIT ATTACHED TO STRUCTURE DETAILS  
REFER TO SHEET 15 FOR GROUND TO CONCRETE WALL CONDUIT TRANSITION  
REFER TO SHEET 24 FOR TYPICAL CCTV WITH TWO VEHICLE DETECTORS DETAILS  
REFER TO SHEET 226 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR BRIDGE OVER 6TH STREET  
REFER TO SHEET 310 FOR COMMUNICATION DETAILS

CALCULATED STS CHECKED JDG

I-77 AT 6TH ST (MP 104.8 TO MP 105.3)  
CITY OF CANTON, STARK COUNTY

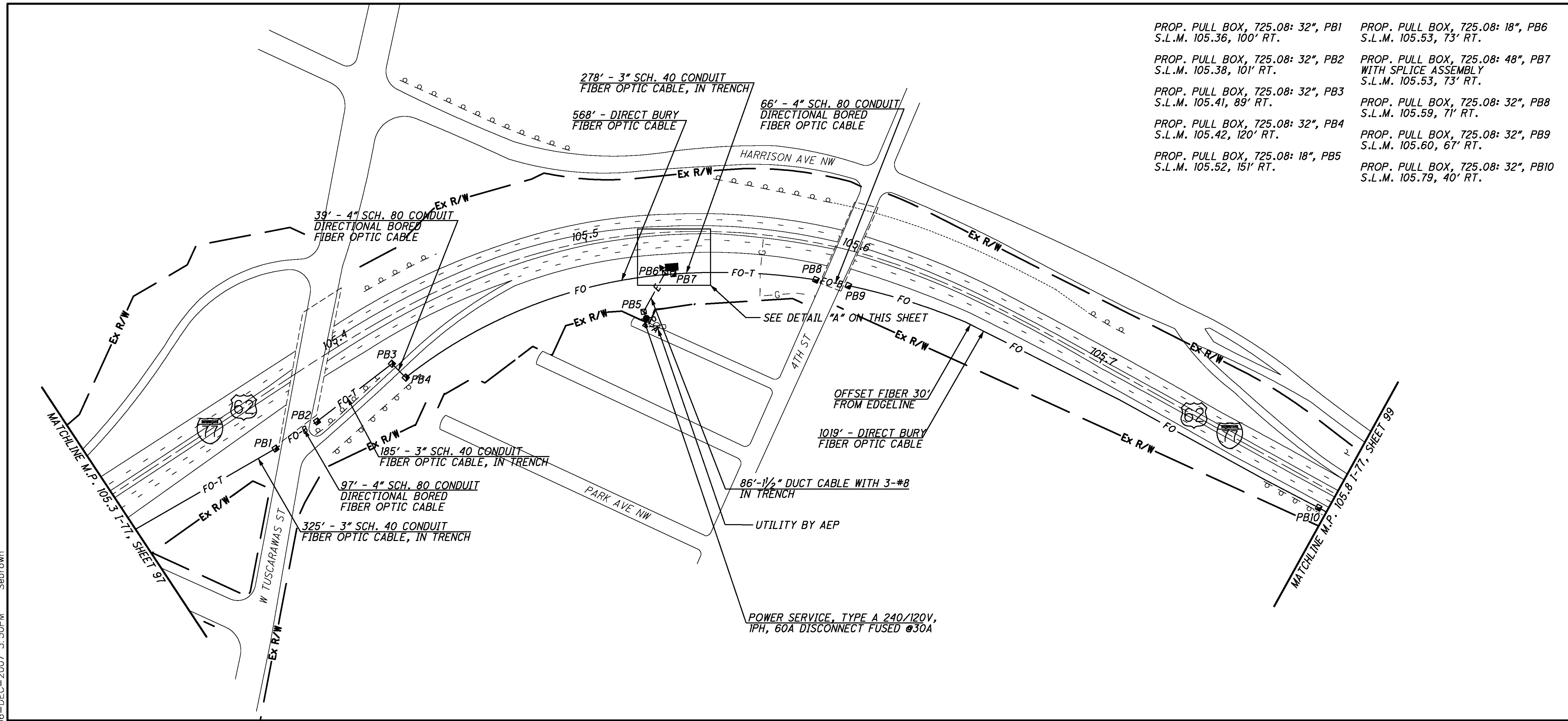
STA-SUM ITS

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CALCULATED STS CHECKED JDG

- PROP. PULL BOX, 725.08: 32", PB1 S.L.M. 105.36, 100' RT.
- PROP. PULL BOX, 725.08: 18", PB6 S.L.M. 105.53, 73' RT.
- PROP. PULL BOX, 725.08: 32", PB2 S.L.M. 105.38, 101' RT.
- PROP. PULL BOX, 725.08: 48", PB7 WITH SPLICE ASSEMBLY S.L.M. 105.53, 73' RT.
- PROP. PULL BOX, 725.08: 32", PB3 S.L.M. 105.41, 89' RT.
- PROP. PULL BOX, 725.08: 32", PB8 S.L.M. 105.59, 71' RT.
- PROP. PULL BOX, 725.08: 32", PB4 S.L.M. 105.42, 120' RT.
- PROP. PULL BOX, 725.08: 32", PB9 S.L.M. 105.60, 67' RT.
- PROP. PULL BOX, 725.08: 18", PB5 S.L.M. 105.52, 151' RT.
- PROP. PULL BOX, 725.08: 32", PB10 S.L.M. 105.79, 40' RT.



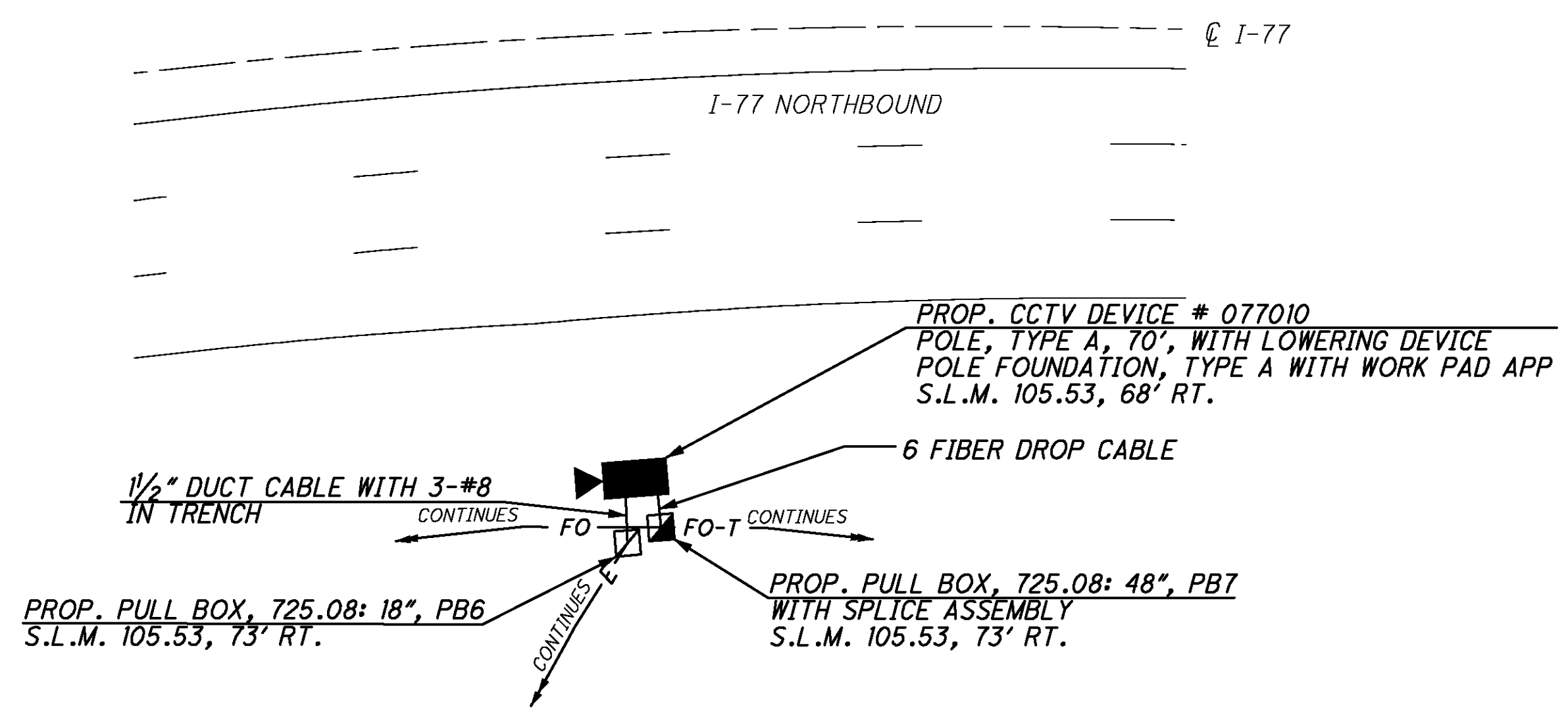
I-77 AT TUSCARAWAS (MP 105.3 TO MP 105.8)  
CITY OF CANTON, STARK COUNTY

STA-SUM ITS  
98  
390

\*077010 - AREA CURRENTLY UNDER CONSTRUCTION  
NO SURVEY AVAILABLE AT THIS TIME

DETAIL "A" - 20 SCALE

REFER TO SHEET 23 FOR TYPICAL CCTV DETAILS  
REFER TO SHEET 311 FOR COMMUNICATION DETAILS



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PROP. STRUCTURE JUNCTION  
BOX, APP, PBI  
S.L.M. 105.90, 43' RT.

PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 106.09, 104' RT.

PROP. PULL BOX, 725.08: 32", PB3  
S.L.M. 106.09, 77' RT.

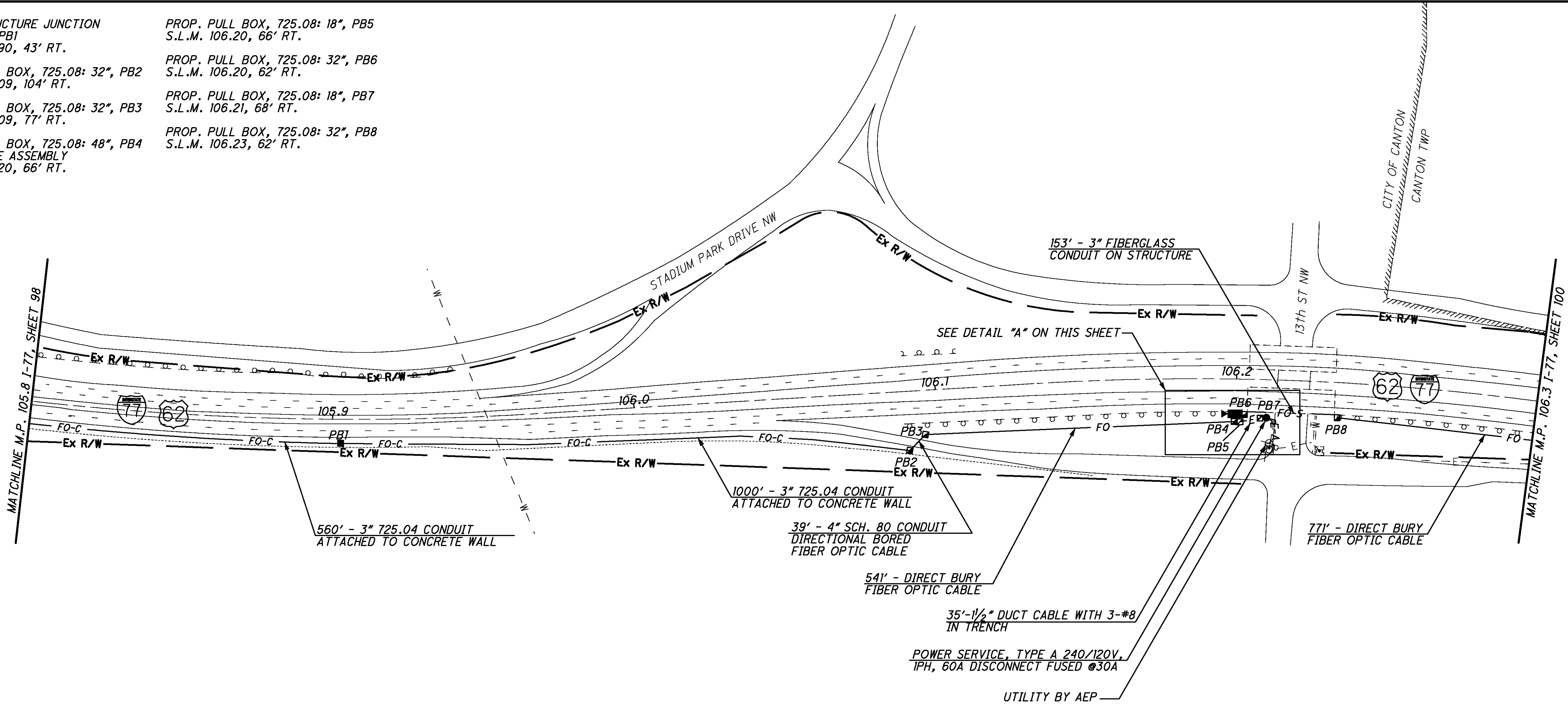
PROP. PULL BOX, 725.08: 48", PB4  
WITH SPLICE ASSEMBLY  
S.L.M. 106.20, 66' RT.

PROP. PULL BOX, 725.08: 18", PB5  
S.L.M. 106.20, 66' RT.

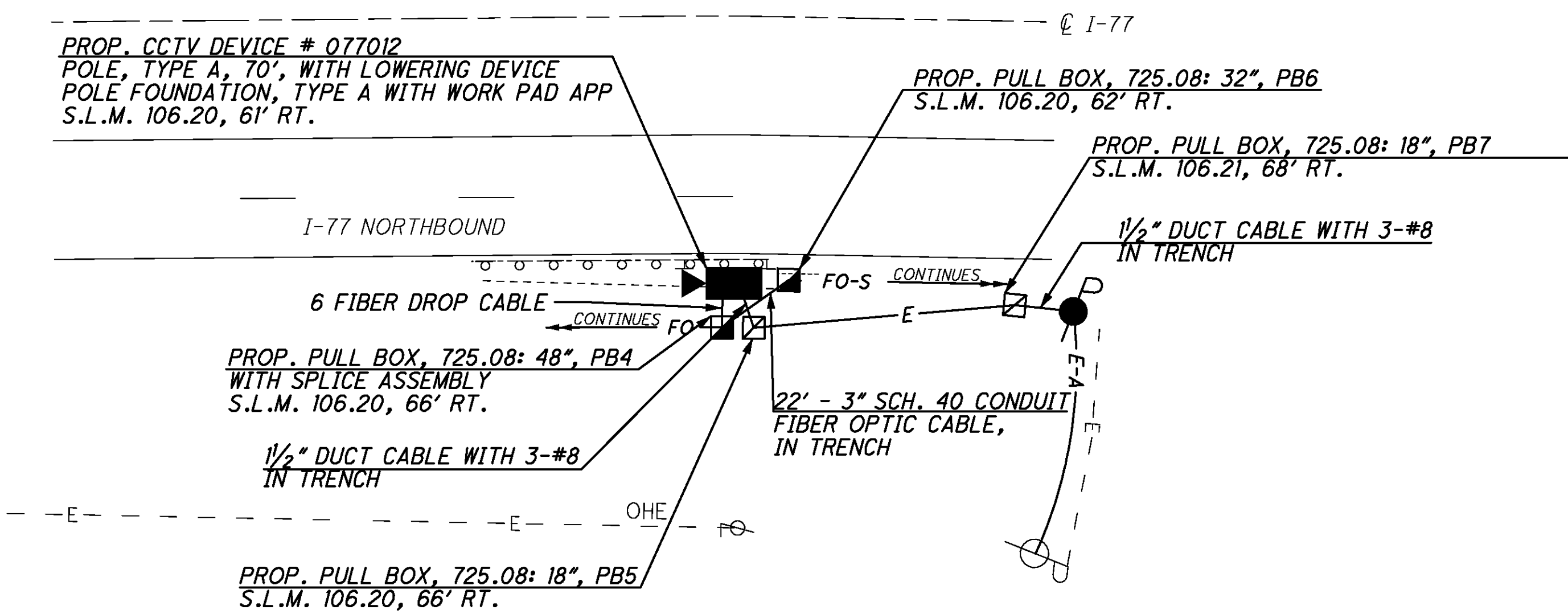
PROP. PULL BOX, 725.08: 32", PB6  
S.L.M. 106.20, 62' RT.

PROP. PULL BOX, 725.08: 18", PB7  
S.L.M. 106.21, 68' RT.

PROP. PULL BOX, 725.08: 32", PB8  
S.L.M. 106.23, 62' RT.



DETAIL "A" - 20 SCALE



REFER TO SHEET 13 FOR TYPICAL CONDUIT ATTACHED TO STRUCTURE DETAILS

REFER TO SHEET 23 FOR TYPICAL CCTV DETAILS

REFER TO SHEET 227 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR BRIDGE OVER 13th STREET

REFER TO SHEETS 312-314 FOR COMMUNICATION DETAILS



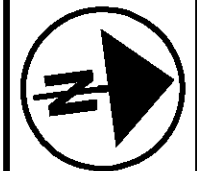
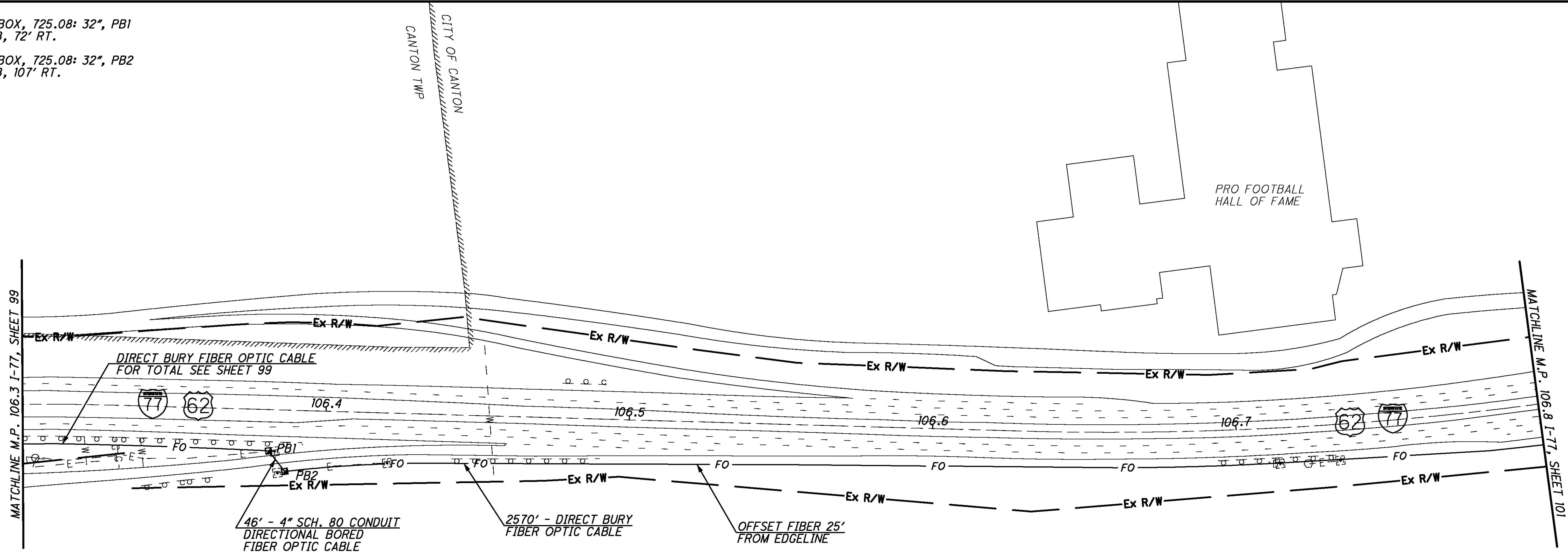
CALCULATED STS  
CHECKED JDG

I-77 AT 12TH ST (MP 105.8 TO MP 106.3)  
CITY OF CANTON, STARK COUNTY

STA-SUM ITS

PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 106.38, 72' RT.

PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 106.38, 107' RT.



CALCULATED STS  
CHECKED JDG

I-77 AT PARK DR (MP 106.3 TO MP 106.8)  
CITY OF CANTON, STARK COUNTY

STA-SUM ITS

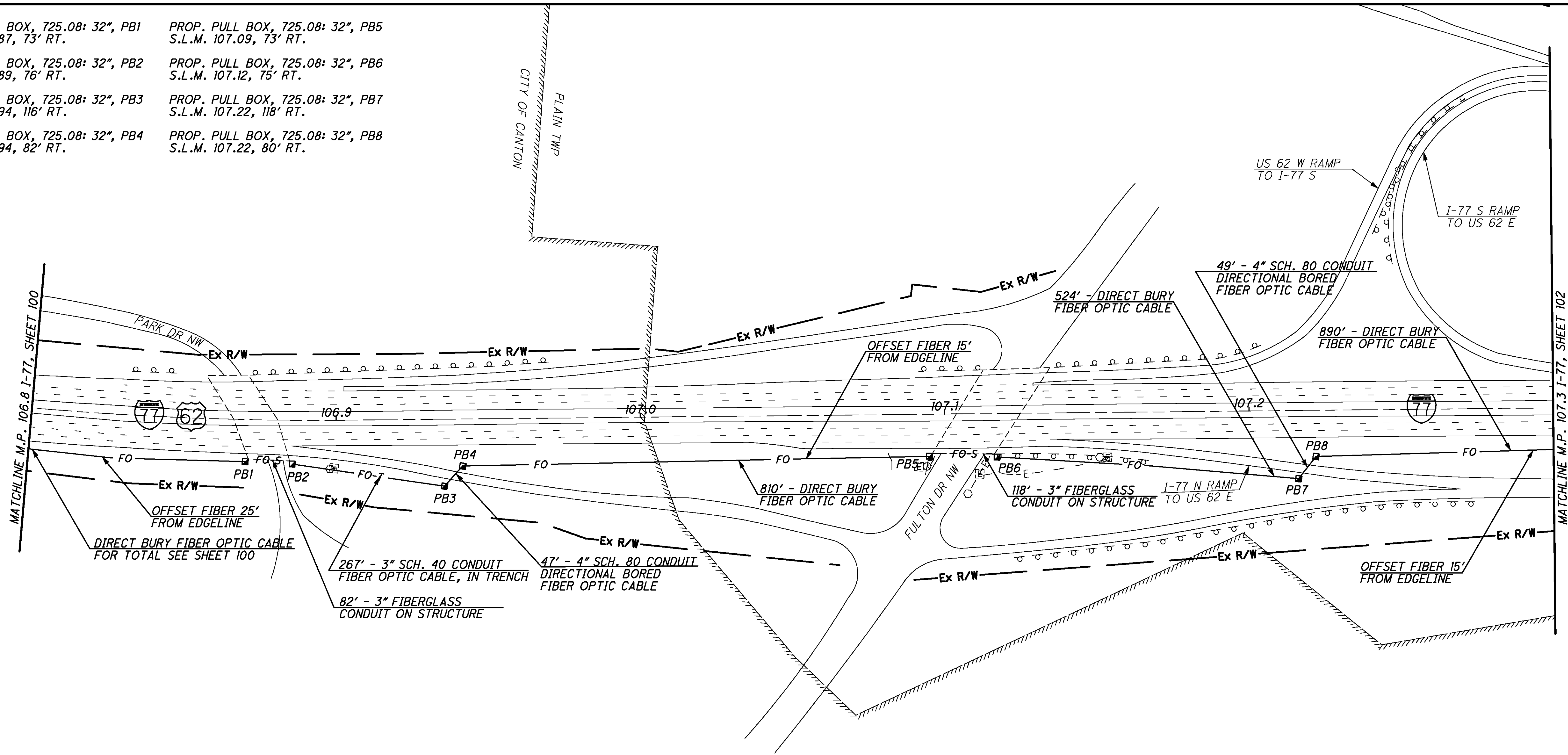
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390

NO FIELD DEVICE ON THIS SHEET

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- PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 106.87, 73' RT.
- PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 106.89, 76' RT.
- PROP. PULL BOX, 725.08: 32", PB3  
S.L.M. 106.94, 116' RT.
- PROP. PULL BOX, 725.08: 32", PB4  
S.L.M. 106.94, 82' RT.
- PROP. PULL BOX, 725.08: 32", PB5  
S.L.M. 107.09, 73' RT.
- PROP. PULL BOX, 725.08: 32", PB6  
S.L.M. 107.12, 75' RT.
- PROP. PULL BOX, 725.08: 32", PB7  
S.L.M. 107.22, 118' RT.
- PROP. PULL BOX, 725.08: 32", PB8  
S.L.M. 107.22, 80' RT.



N

0 50 100 200  
HORIZONTAL SCALE IN FEET

CALCULATED STS  
CHECKED JDG

I-77 AT FULTON DR (MP 106.8 TO MP 107.3)  
PLAIN TOWNSHIP, STARK COUNTY

REFER TO SHEET 13 FOR TYPICAL CONDUIT ATTACHED TO STRUCTURE DETAILS

REFER TO SHEET 228 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR BRIDGE OVER PARK ROAD

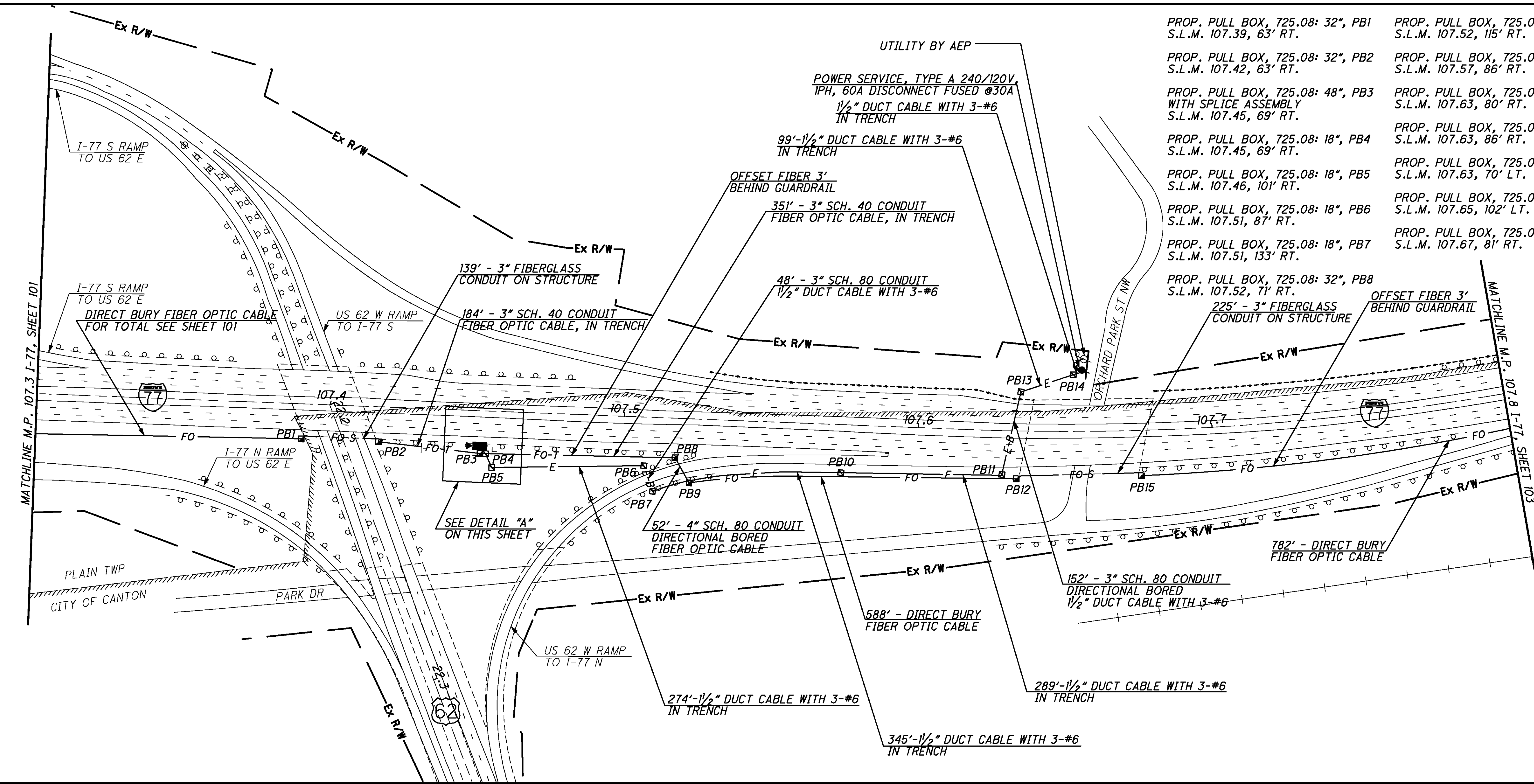
REFER TO SHEET 229 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR BRIDGE OVER FULTON DRIVE

NO FIELD DEVICE ON THIS SHEET

STA-SUM ITS

101  
390

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- PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 107.39, 63' RT.
- PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 107.42, 63' RT.
- PROP. PULL BOX, 725.08: 48", PB3  
WITH SPLICE ASSEMBLY  
S.L.M. 107.45, 69' RT.
- PROP. PULL BOX, 725.08: 18", PB4  
S.L.M. 107.45, 69' RT.
- PROP. PULL BOX, 725.08: 18", PB5  
S.L.M. 107.46, 101' RT.
- PROP. PULL BOX, 725.08: 18", PB6  
S.L.M. 107.51, 87' RT.
- PROP. PULL BOX, 725.08: 18", PB7  
S.L.M. 107.51, 133' RT.
- PROP. PULL BOX, 725.08: 32", PB8  
S.L.M. 107.52, 71' RT.
- PROP. PULL BOX, 725.08: 32", PB9  
S.L.M. 107.52, 115' RT.
- PROP. PULL BOX, 725.08: 18", PB10  
S.L.M. 107.57, 86' RT.
- PROP. PULL BOX, 725.08: 18", PB11  
S.L.M. 107.63, 80' RT.
- PROP. PULL BOX, 725.08: 32", PB12  
S.L.M. 107.63, 86' RT.
- PROP. PULL BOX, 725.08: 18", PB13  
S.L.M. 107.63, 70' LT.
- PROP. PULL BOX, 725.08: 18", PB14  
S.L.M. 107.65, 102' LT.
- PROP. PULL BOX, 725.08: 32", PB15  
S.L.M. 107.67, 81' RT.

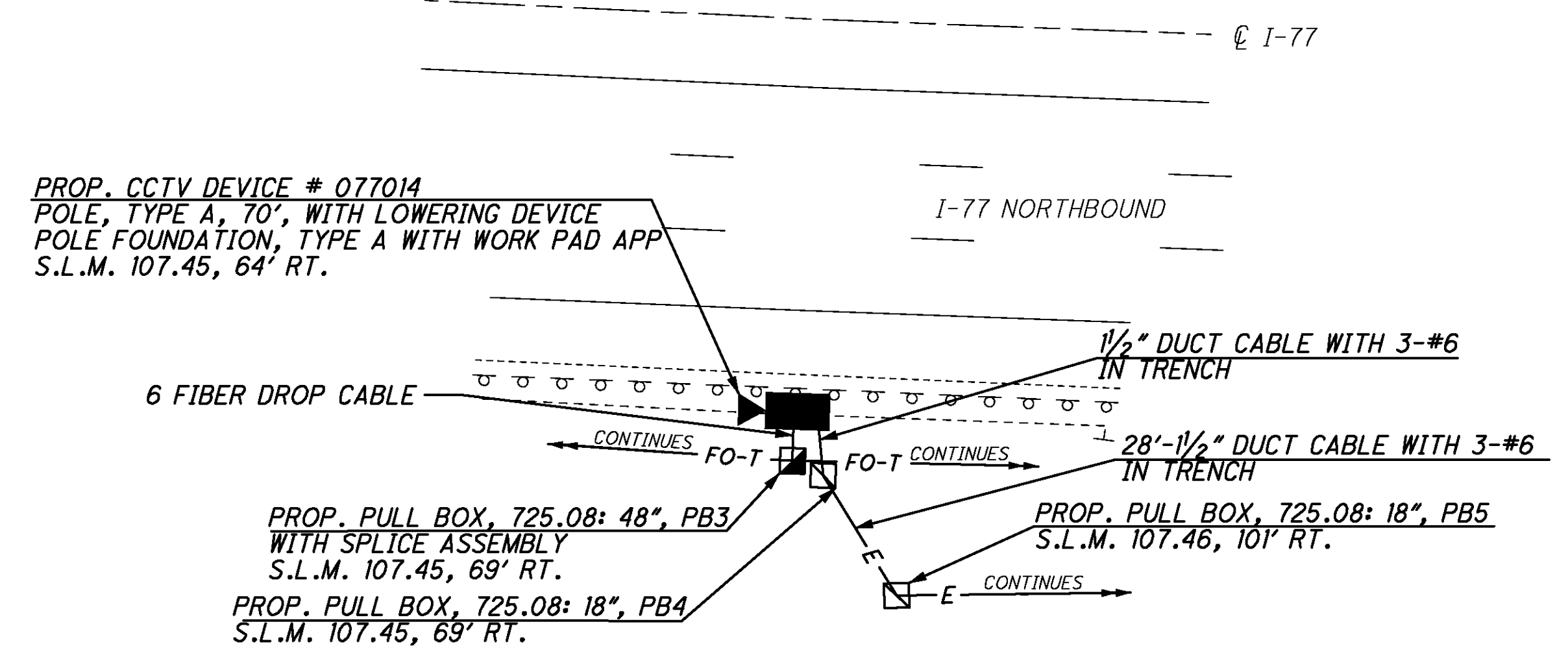

  

  
 HORIZONTAL SCALE IN FEET

I-77 AT US-62 (MP 107.3 TO MP 107.8)  
 PLAIN TWP, STARK COUNTY

STA-SUM ITS

DETAIL "A" - 20 SCALE



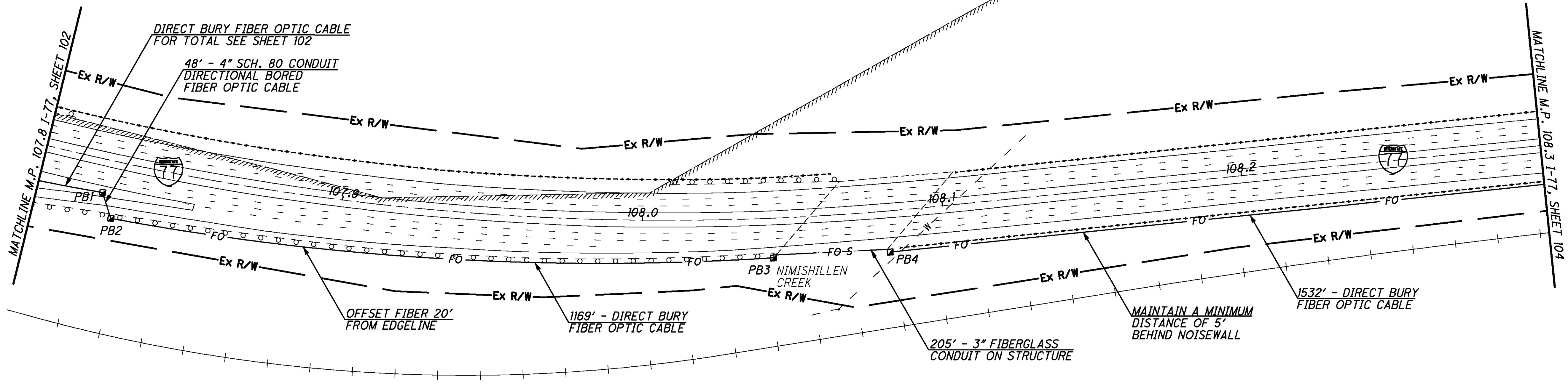
REFER TO SHEET 13 FOR TYPICAL CONDUIT ATTACHED TO STRUCTURE DETAILS  
 REFER TO SHEET 23 FOR TYPICAL CCTV DETAILS  
 REFER TO SHEET 230 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR BRIDGE OVER U.S. 62  
 REFER TO SHEET 231 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR BRIDGE OVER ORCHARD PARK  
 REFER TO SHEET 315 FOR COMMUNICATION DETAILS

PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 107.82, 59' RT.

PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 107.82, 100' RT.

PROP. PULL BOX, 725.08: 32", PB3  
S.L.M. 108.04, 70' RT.

PROP. PULL BOX, 725.08: 32", PB4  
S.L.M. 108.08, 72' RT.



REFER TO SHEET 13 FOR TYPICAL CONDUIT ATTACHED TO STRUCTURE DETAILS  
REFER TO SHEET 232 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR BRIDGE OVER NIMISHILLEN CREEK

NO FIELD DEVICE ON THIS SHEET

CALCULATED	
STS	JDG
CHECKED	

I-77 AT US-62 (MP 107.8 TO MP 108.3)  
CITY OF CANTON, STARK COUNTY

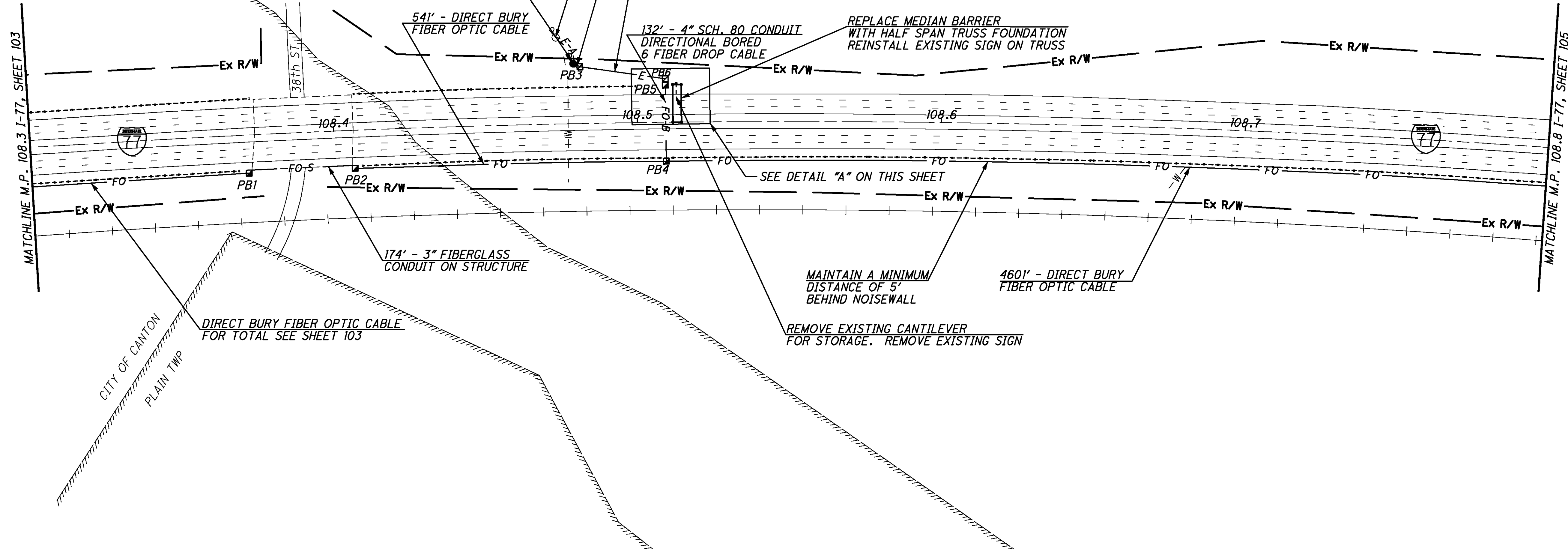
STA-SUM ITS

103  
390

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PLAIN TWP  
CITY OF CANTON



PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 108.37, 66' RT.

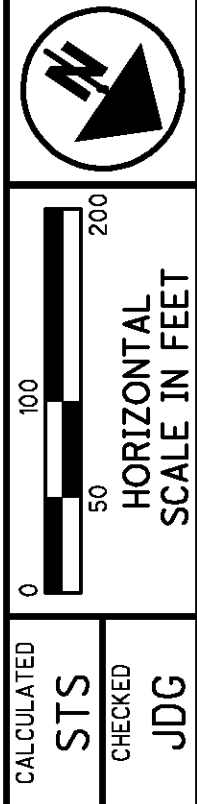
PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 108.41, 66' RT.

PROP. PULL BOX, 725.08: 18", PB3  
S.L.M. 108.48, 99' LT.

PROP. PULL BOX, 725.08: 48", PB4  
WITH SPLICE ASSEMBLY  
S.L.M. 108.51, 68' RT.

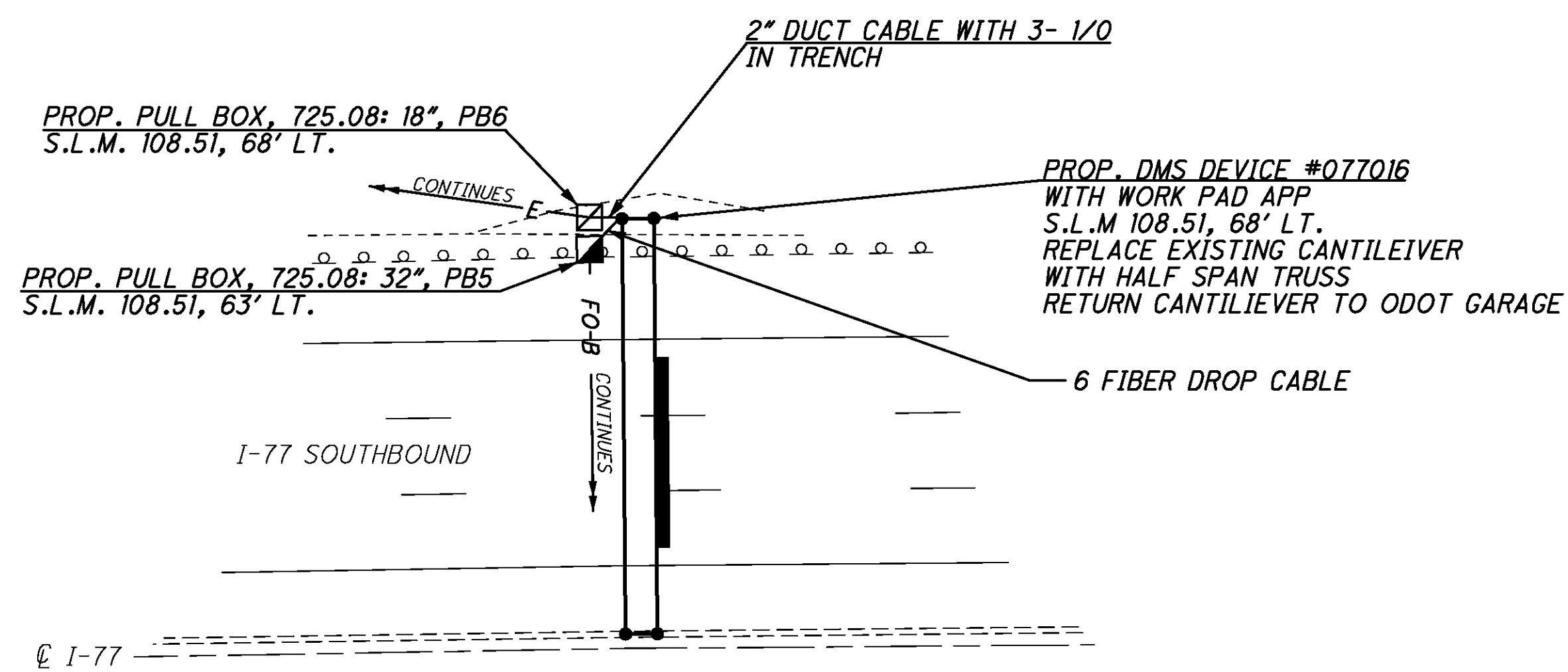
PROP. PULL BOX, 725.08: 32", PB5  
S.L.M. 108.51, 63' LT.

PROP. PULL BOX, 725.08: 18", PB6  
S.L.M. 108.51, 68' LT.



MP 108.3 TO MP 108.8  
PLAIN TOWNSHIP, STARK COUNTY

DETAIL "A" - 20 SCALE



REFER TO SHEET 12 FOR MEDIAN BARRIER REPLACEMENT DETAILS

REFER TO SHEET 13 FOR TYPICAL CONDUIT ATTACHED TO STRUCTURE DETAILS

REFER TO SHEET 25 FOR TYPICAL DMS DETAILS

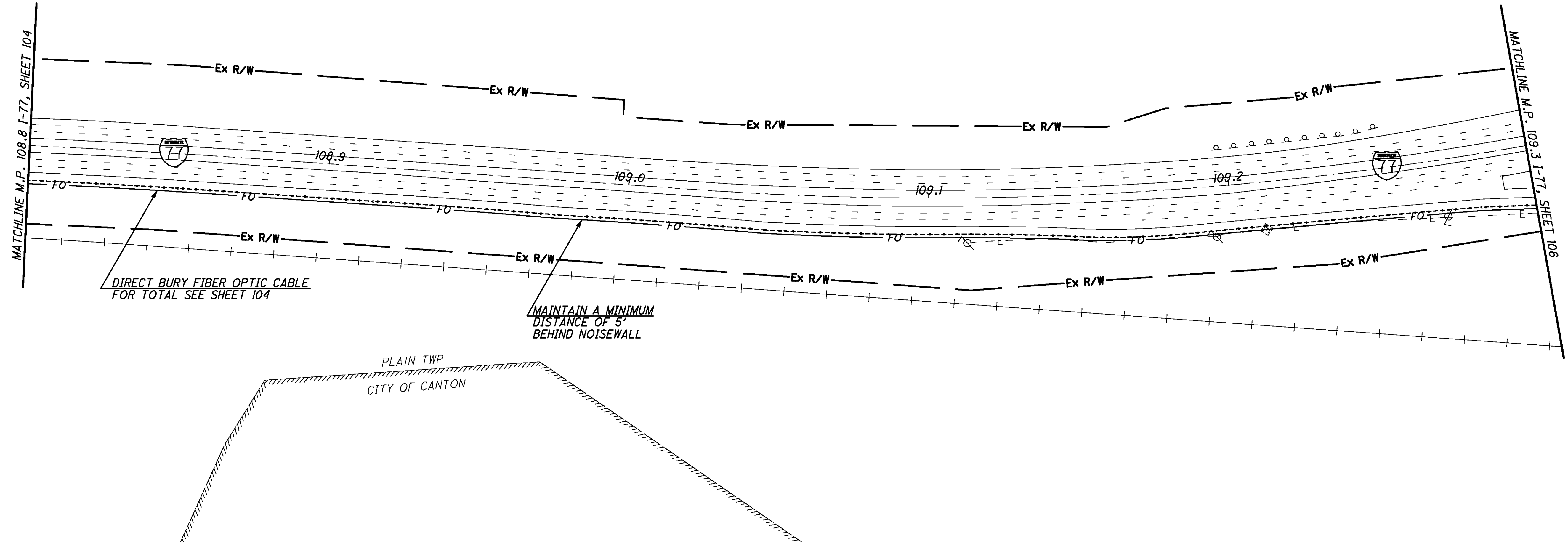
REFER TO SHEET 197 FOR DMS PROFILE

REFER TO SHEET 233 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR BRIDGE OVER 38TH STREET

REFER TO SHEET 316 FOR COMMUNICATION DETAILS

STA-SUM ITS

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NO FIELD DEVICE ON THIS SHEET



CALCULATED	STS
CHECKED	JDG

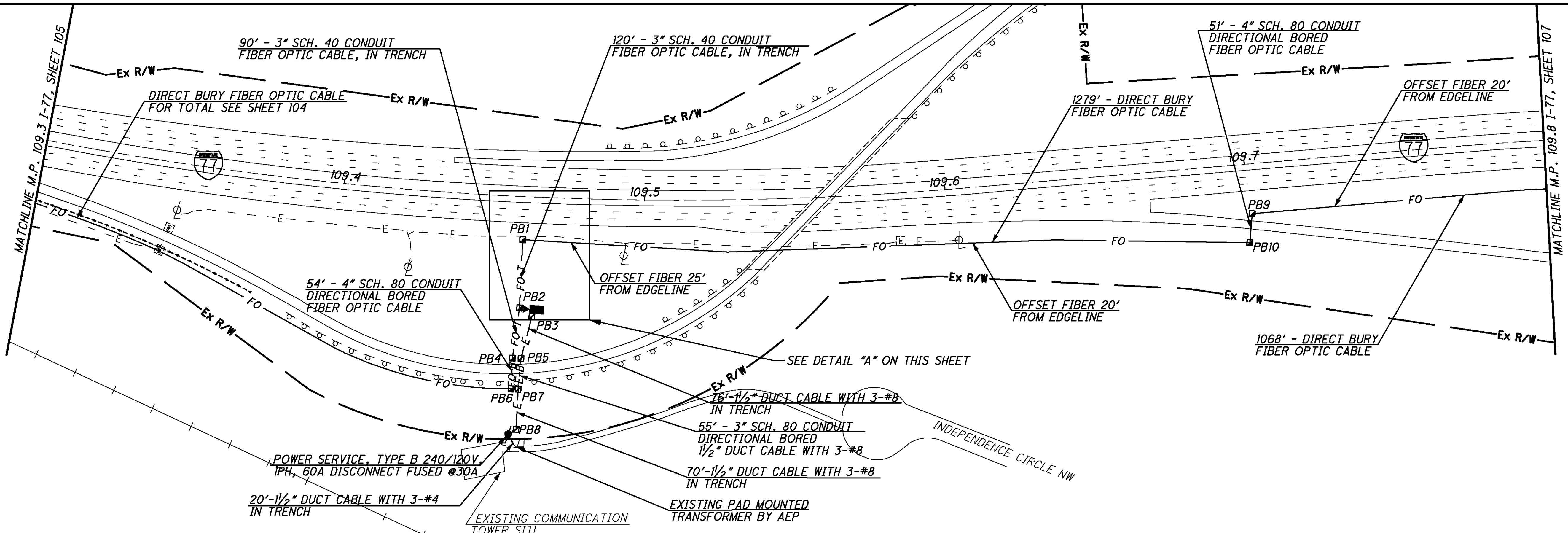
**I-77 AT BELDEN VILLAGE (MP 108.8 TO 109.3)**  
**PLAIN TOWNSHIP, STARK COUNTY**

STA - SUM ITS

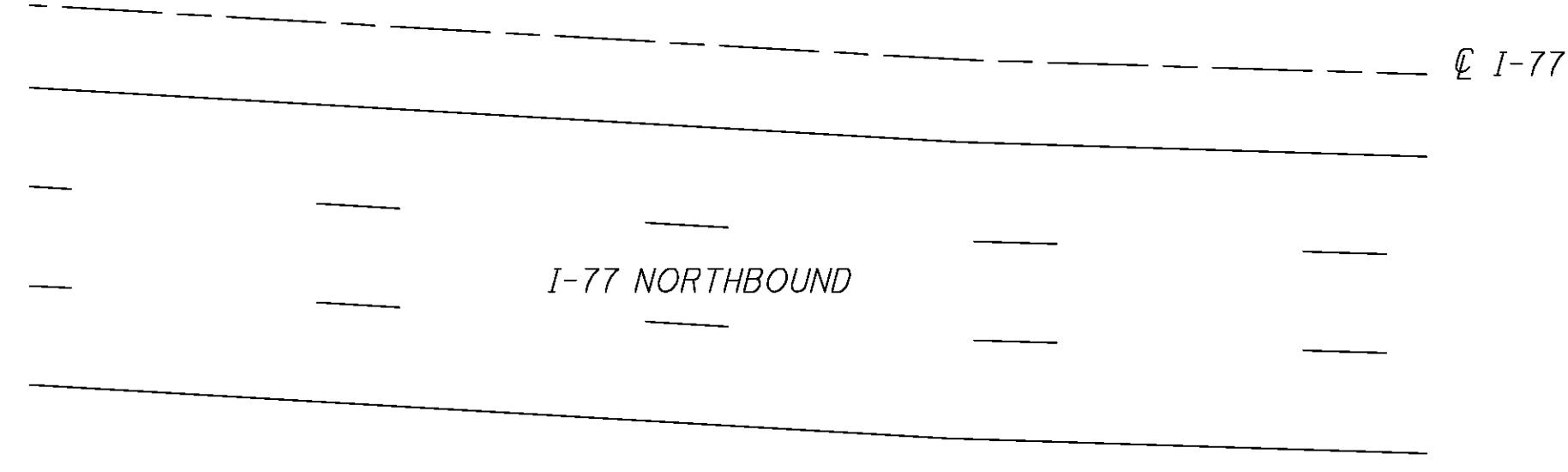
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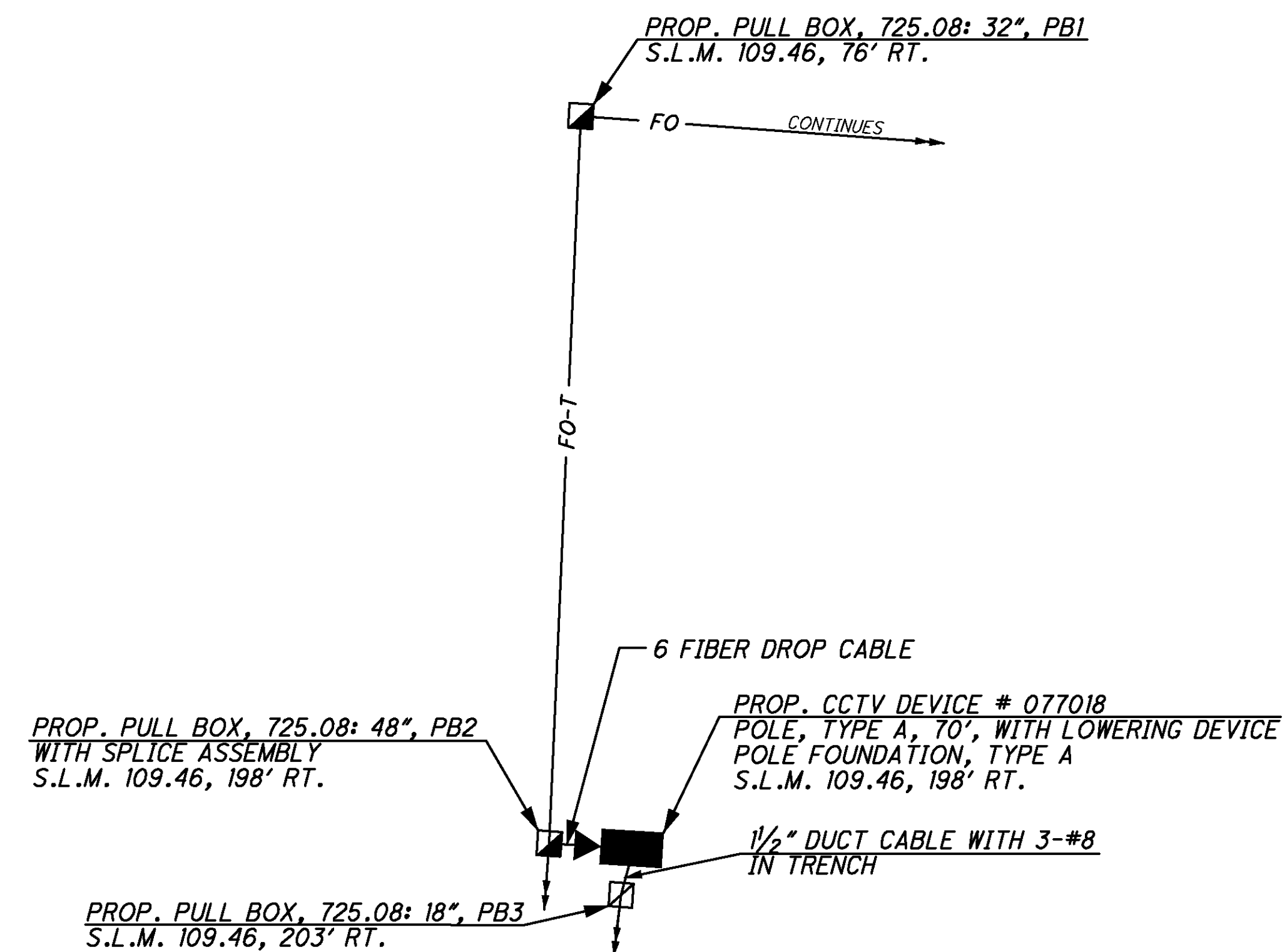


DETAIL "A" - 20 SCALE



- |   |  |
|---|--|
| PROP. PULL BOX, 725.08: 32", PB1<br>S.L.M. 109.46, 766' RT.                         | PROP. PULL BOX, 725.08: 32", PB9<br>S.L.M. 109.46, 339' RT.  |
| PROP. PULL BOX, 725.08: 48", PB2<br>WITH SPLICE ASSEMBLY<br>S.L.M. 109.46, 198' RT. | PROP. PULL BOX, 725.08: 18", PB7<br>S.L.M. 109.46, 339' RT.  |
| PROP. PULL BOX, 725.08: 18", PB3<br>S.L.M. 109.46, 203' RT.                         | PROP. PULL BOX, 725.08: 18", PB8<br>S.L.M. 109.46, 409' RT.  |
| PROP. PULL BOX, 725.08: 32", PB4<br>S.L.M. 109.46, 284' RT.                         | PROP. PULL BOX, 725.08: 32", PB9<br>S.L.M. 109.70, 88' RT.   |
| PROP. PULL BOX, 725.08: 18", PB5<br>S.L.M. 109.46, 284' RT.                         | PROP. PULL BOX, 725.08: 32", PB10<br>S.L.M. 109.70, 138' RT. |

REFER TO SHEET 23 FOR TYPICAL CCTV DETAILS  
REFER TO SHEET 317 FOR COMMUNICATION DETAILS



CALCULATED STS CHECKED JDG

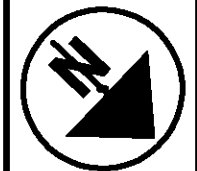
0 50 100 200  
HORIZONTAL SCALE IN FEET

I-77 AT BELDEN VILLAGE (MP 109.3 TO 109.8)  
PLAIN TOWNSHIP, STARK COUNTY

STA-SUM ITS

106  
390

CCTV 077018

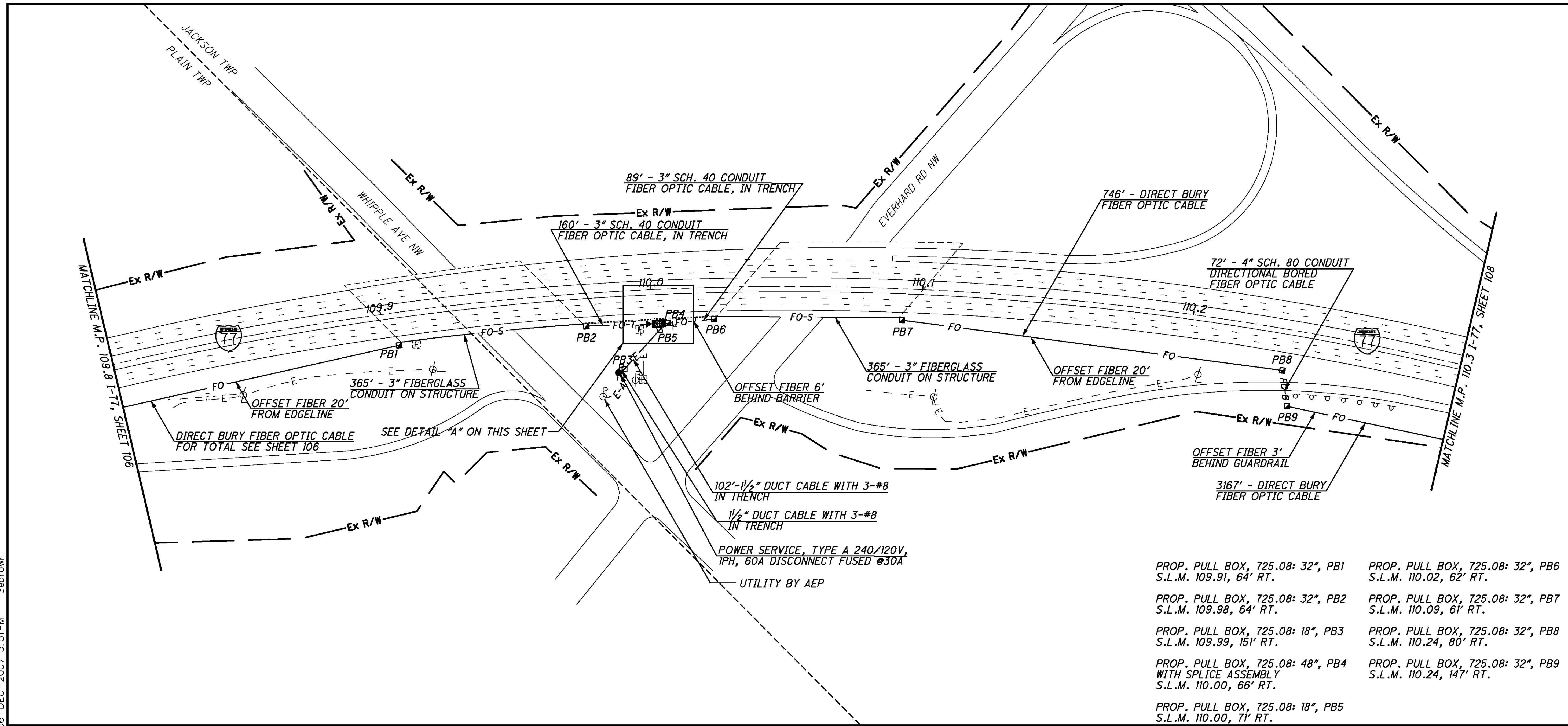


CALCULATED STS CHECKED JDG

I-77 AT WHIPPLE AVE (MP 109.8 TO MP 110.3)  
JACKSON TOWNSHIP, STARK COUNTY

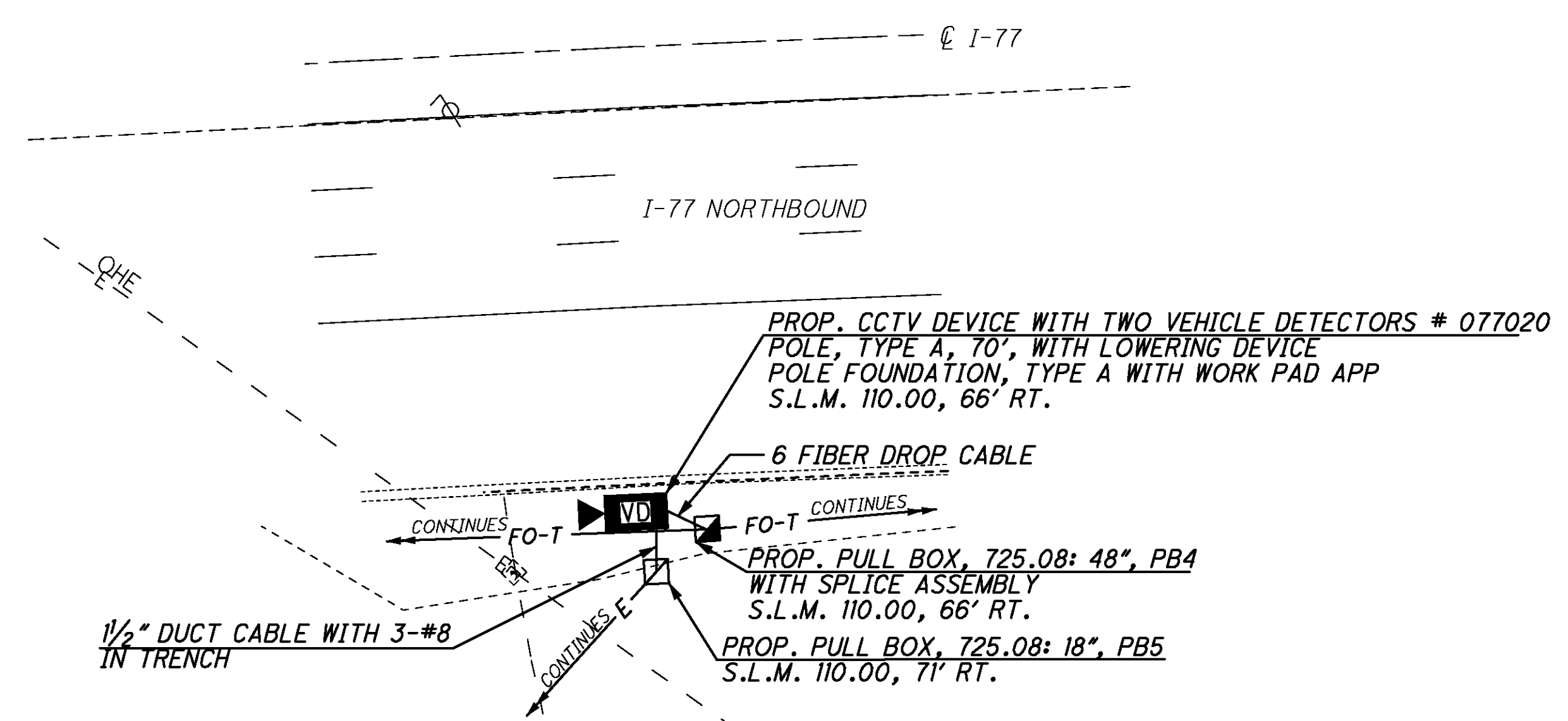
STA-SUM ITS

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- |  |   |
|--|---|
| PROP. PULL BOX, 725.08: 32", PB1<br>S.L.M. 109.91, 64' RT.                         | PROP. PULL BOX, 725.08: 32", PB6<br>S.L.M. 110.02, 62' RT.  |
| PROP. PULL BOX, 725.08: 32", PB2<br>S.L.M. 109.98, 64' RT.                         | PROP. PULL BOX, 725.08: 32", PB7<br>S.L.M. 110.09, 61' RT.  |
| PROP. PULL BOX, 725.08: 18", PB3<br>S.L.M. 109.99, 151' RT.                        | PROP. PULL BOX, 725.08: 32", PB8<br>S.L.M. 110.24, 80' RT.  |
| PROP. PULL BOX, 725.08: 48", PB4<br>WITH SPLICE ASSEMBLY<br>S.L.M. 110.00, 66' RT. | PROP. PULL BOX, 725.08: 32", PB9<br>S.L.M. 110.24, 147' RT. |
| PROP. PULL BOX, 725.08: 18", PB5<br>S.L.M. 110.00, 71' RT.                         |   |

DETAIL "A" - 20 SCALE



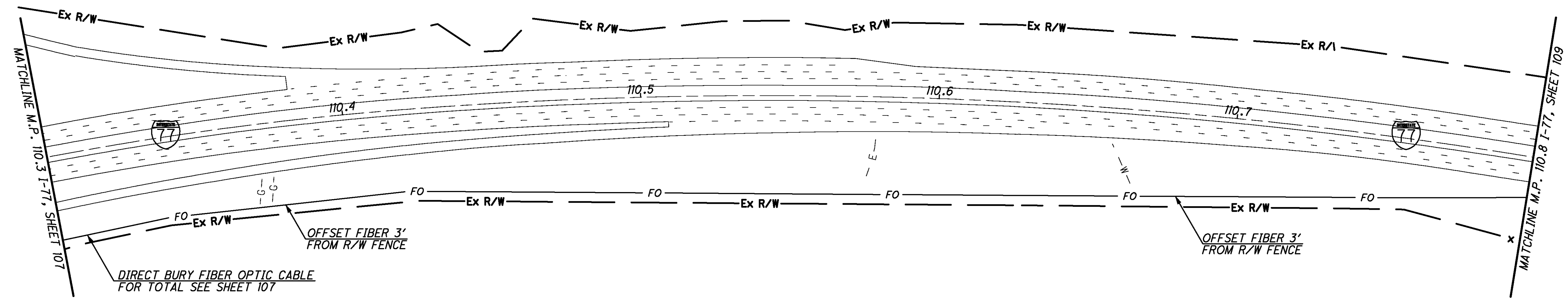
REFER TO SHEET 13 FOR TYPICAL CONDUIT ATTACHED TO STRUCTURE DETAILS

REFER TO SHEET 24 FOR TYPICAL CCTV WITH TWO VEHICLE DETECTORS DETAILS

REFER TO SHEET 234 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR BRIDGE OVER WHIPPLE ROAD

REFER TO SHEET 235 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR BRIDGE OVER EVERHARD ROAD

REFER TO SHEET 318 FOR COMMUNICATION DETAILS



NO FIELD DEVICE ON THIS SHEET

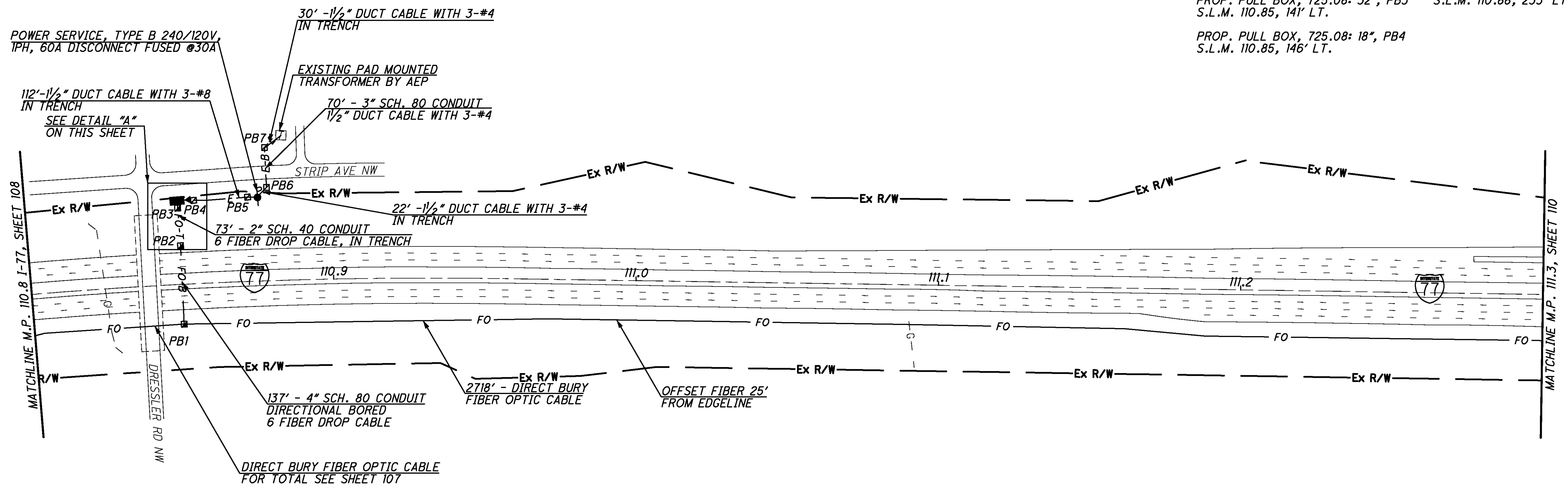
CALCULATED STS  
 CHECKED JDG

0 100 200  
 HORIZONTAL SCALE IN FEET

I-77 AT DRESSIER RD ( MP 110.3 TO MP 110.8 )  
 JACKSON TOWNSHIP, STARK COUNTY

STA - SUM ITS

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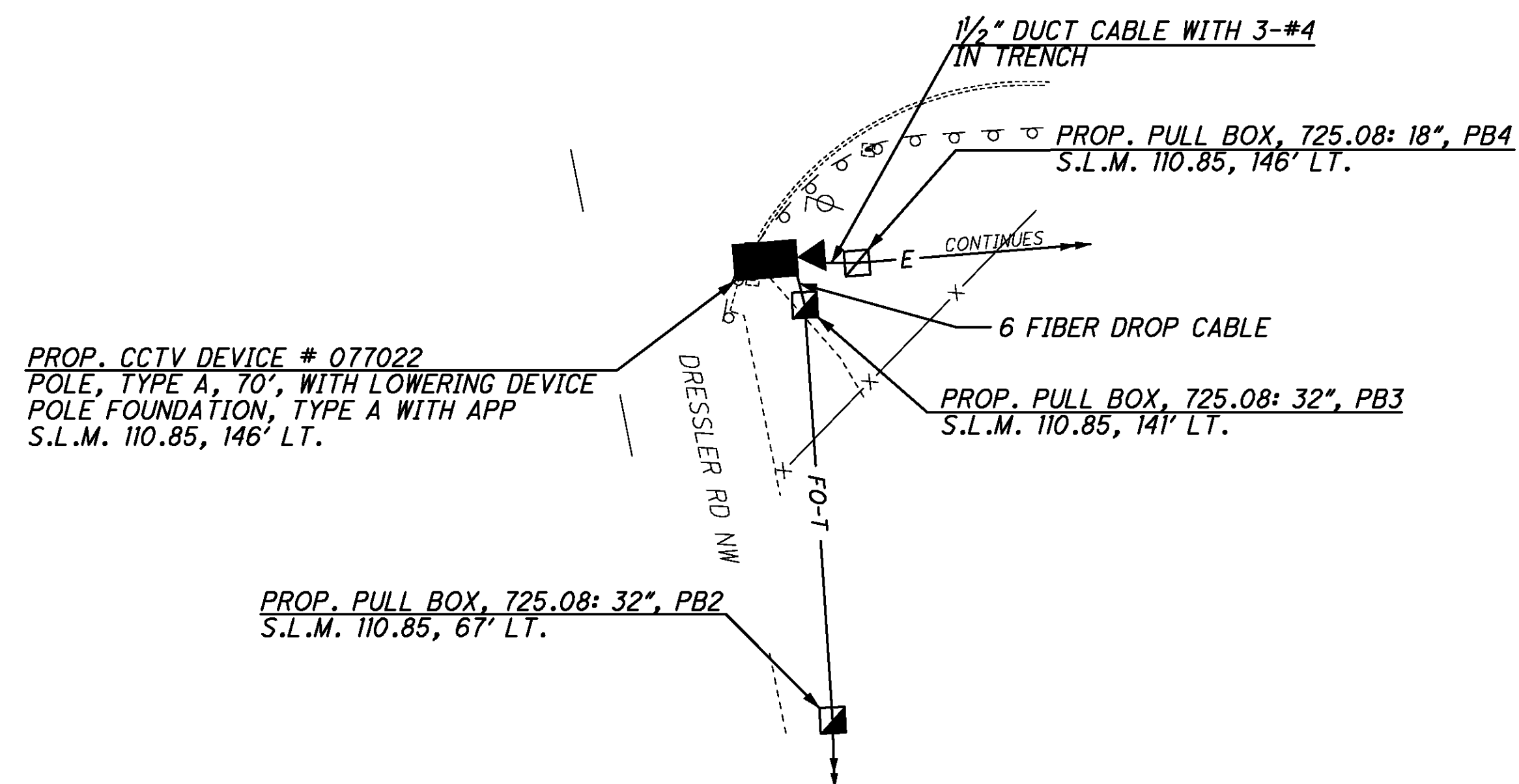
- PROP. PULL BOX, 725.08: 48", PB1 WITH SPLICE ASSEMBLY S.L.M. 110.85, 70' RT.
- PROP. PULL BOX, 725.08: 32", PB2 S.L.M. 110.85, 67' LT.
- PROP. PULL BOX, 725.08: 32", PB3 S.L.M. 110.85, 141' LT.
- PROP. PULL BOX, 725.08: 18", PB4 S.L.M. 110.85, 146' LT.
- PROP. PULL BOX, 725.08: 18", PB5 S.L.M. 110.87, 147' LT.
- PROP. PULL BOX, 725.08: 18", PB6 S.L.M. 110.88, 163' LT.
- PROP. PULL BOX, 725.08: 18", PB7 S.L.M. 110.88, 233' LT.

CALCULATED STS CHECKED JDG

I-77 AT PORTAGE ST (MP 110.8 TO MP 111.3)  
JACKSON TOWNSHIP, STARK COUNTY

STA-SUM ITS  
109  
390

DETAIL "A" - 20 SCALE



REFER TO SHEET 23 FOR TYPICAL CCTV DETAILS  
REFER TO SHEET 319 FOR COMMUNICATION DETAILS

PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 111.37, 87' RT.

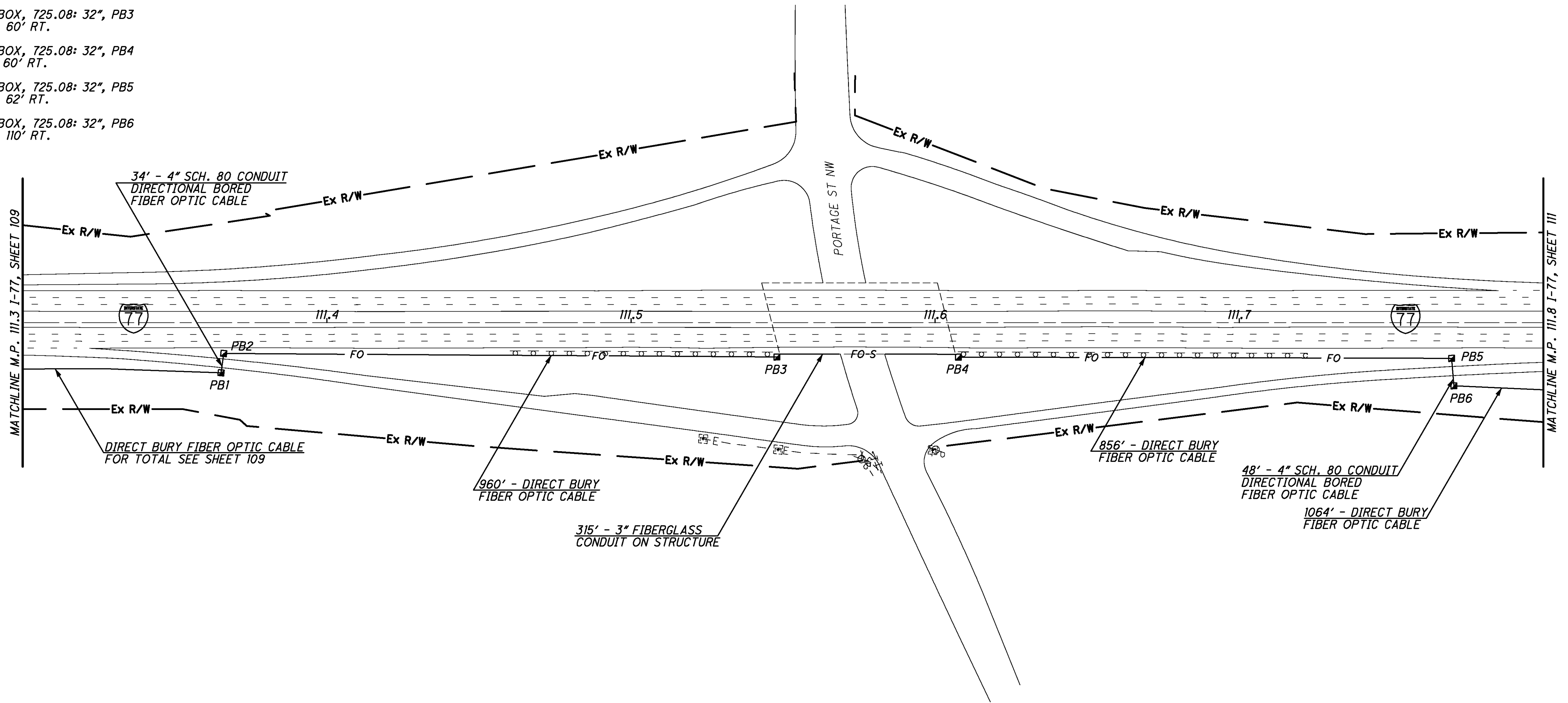
PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 111.37, 54' RT.

PROP. PULL BOX, 725.08: 32", PB3  
S.L.M. 111.55, 60' RT.

PROP. PULL BOX, 725.08: 32", PB4  
S.L.M. 111.61, 60' RT.

PROP. PULL BOX, 725.08: 32", PB5  
S.L.M. 111.77, 62' RT.

PROP. PULL BOX, 725.08: 32", PB6  
S.L.M. 111.77, 110' RT.

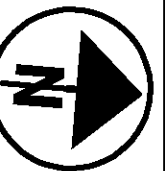


MATCHLINE M.P. 111.3 I-77, SHEET 109

MATCHLINE M.P. 111.8 I-77, SHEET 111

REFER TO SHEET 13 FOR TYPICAL CONDUIT ATTACHED TO STRUCTURE DETAILS  
REFER TO SHEET 236 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR BRIDGE OVER PORTAGE STREET

NO FIELD DEVICE ON THIS SHEET



CALCULATED STS  
CHECKED JDG

I-77 AT PORTAGE ST (MP 111.3 TO 111.8)  
JACKSON TOWNSHIP, STARK COUNTY

STA-SUM ITS

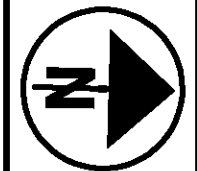
110  
390



PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 111.97, 75' RT.

PROP. PULL BOX, 725.08: 48", PB2  
WITH SPLICE ASSEMBLY  
S.L.M. 111.97, 104' RT.

PROP. PULL BOX, 725.08: 32", PB3  
S.L.M. 112.13, 93' RT.

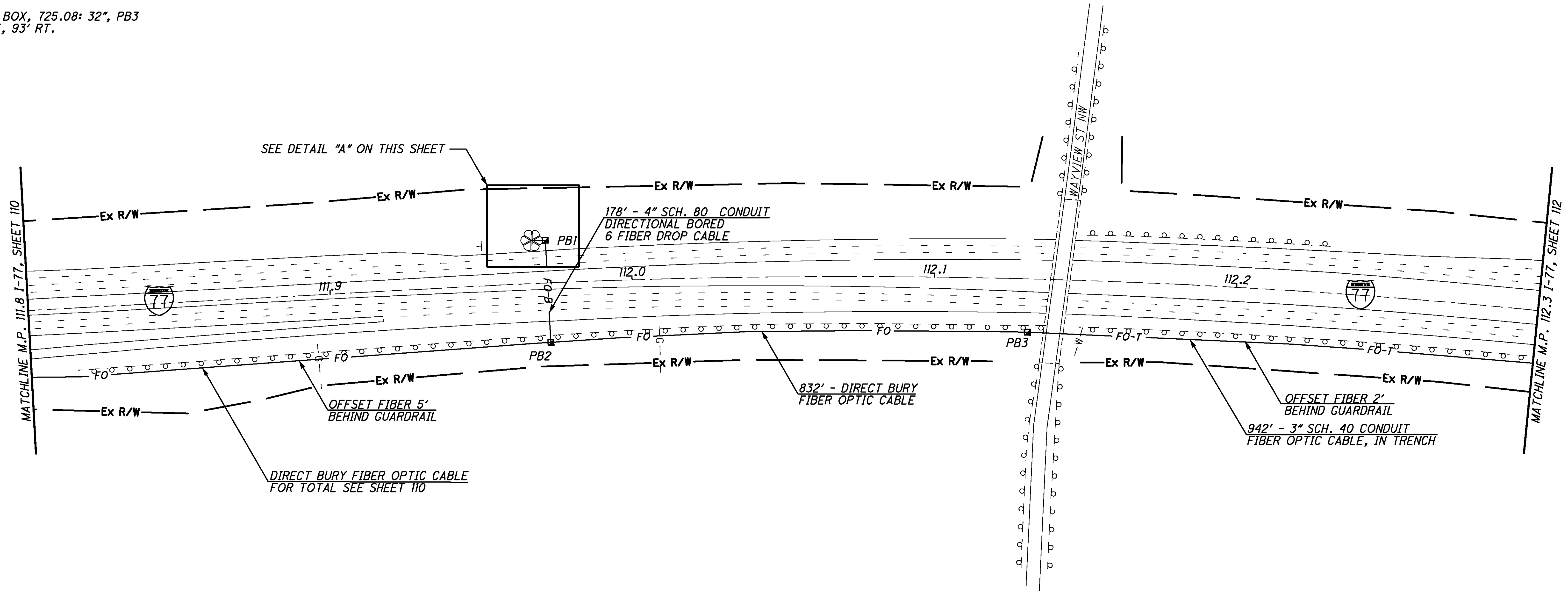


CALCULATED STS  
CHECKED JDG

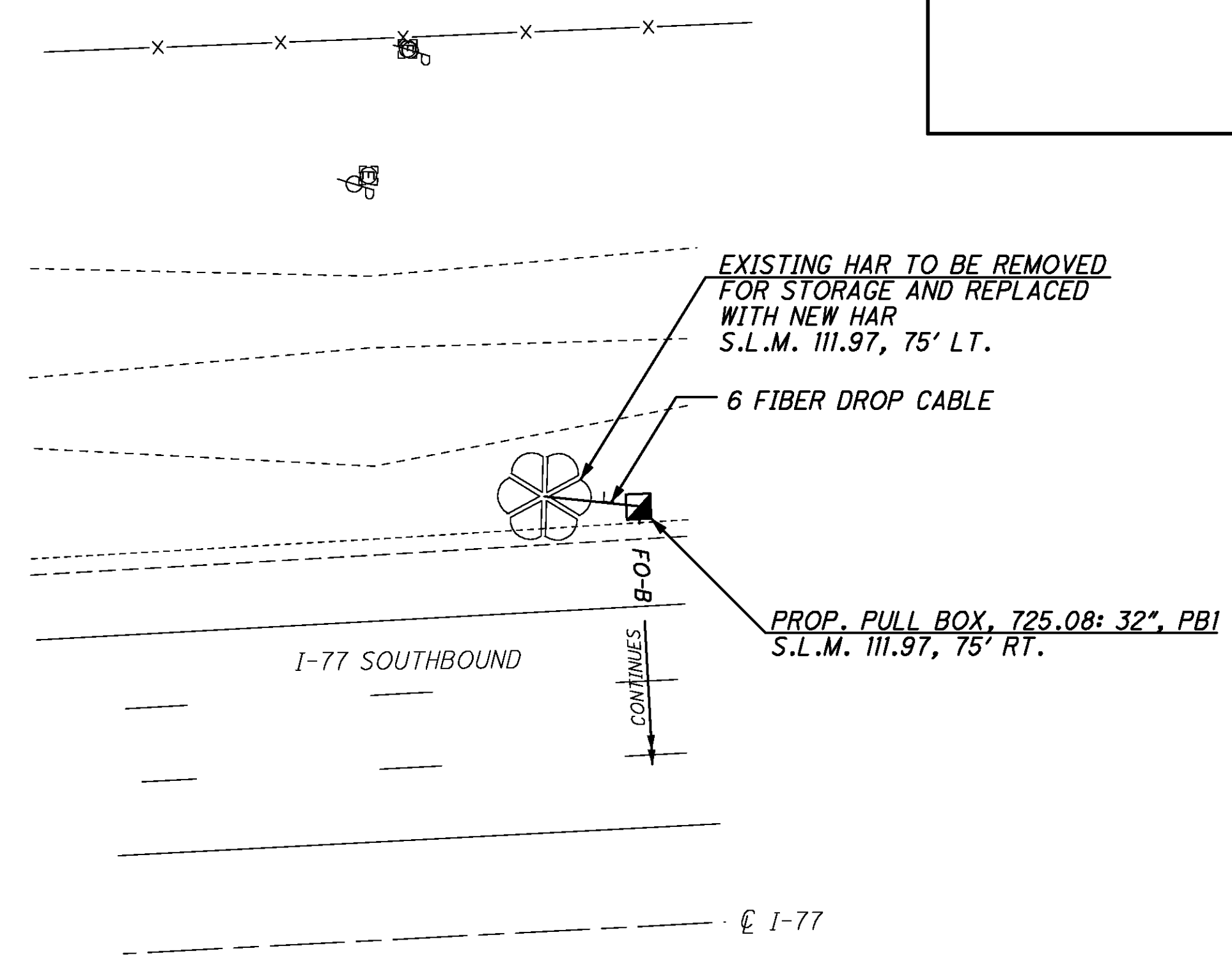
I-77 AT WAYVIEW ST (MP 111.8 TO MP 112.3)  
JACKSON TOWNSHIP, STARK COUNTY

STA-SUM ITS

111  
390



DETAIL "A" - 20 SCALE



REFER TO SHEET 21 FOR TYPICAL HAR DETAILS  
REFER TO SHEET 320 FOR COMMUNICATION DETAILS

EXISTING HAR

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PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 112.31, 98' RT.

PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 112.67, 168' RT.

PROP. PULL BOX, 725.08: 32", PB3  
S.L.M. 112.67, 124' RT.

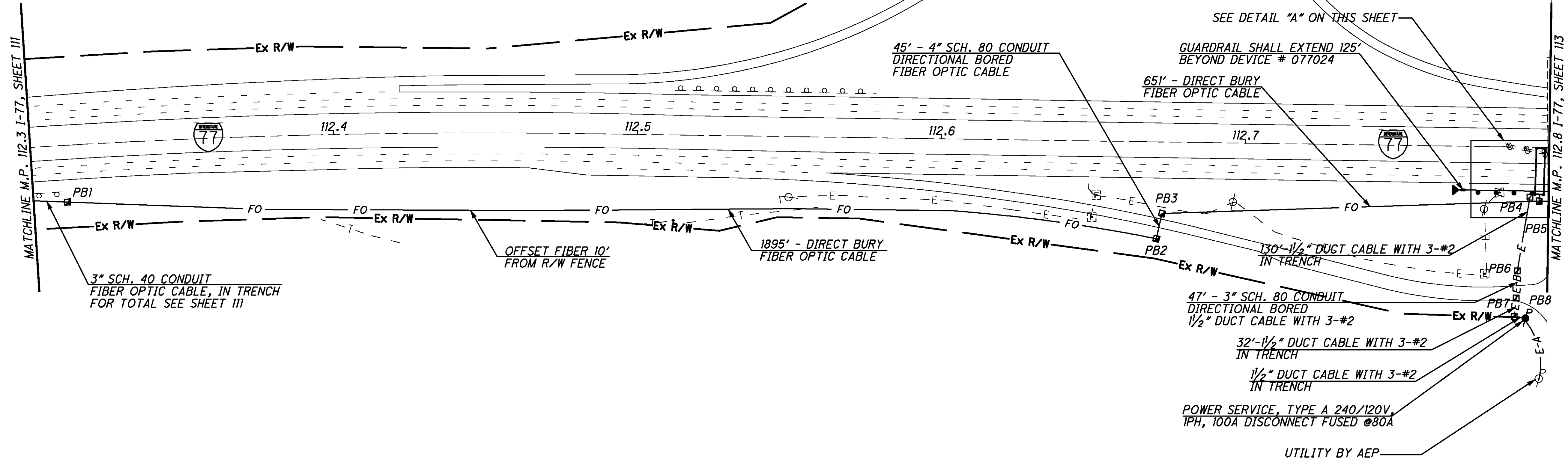
PROP. PULL BOX, 725.08: 18", PB4  
S.L.M. 112.80, 82' RT.

PROP. PULL BOX, 725.08: 48", PB5  
WITH SPLICE ASSEMBLY  
S.L.M. 112.80, 87' RT.

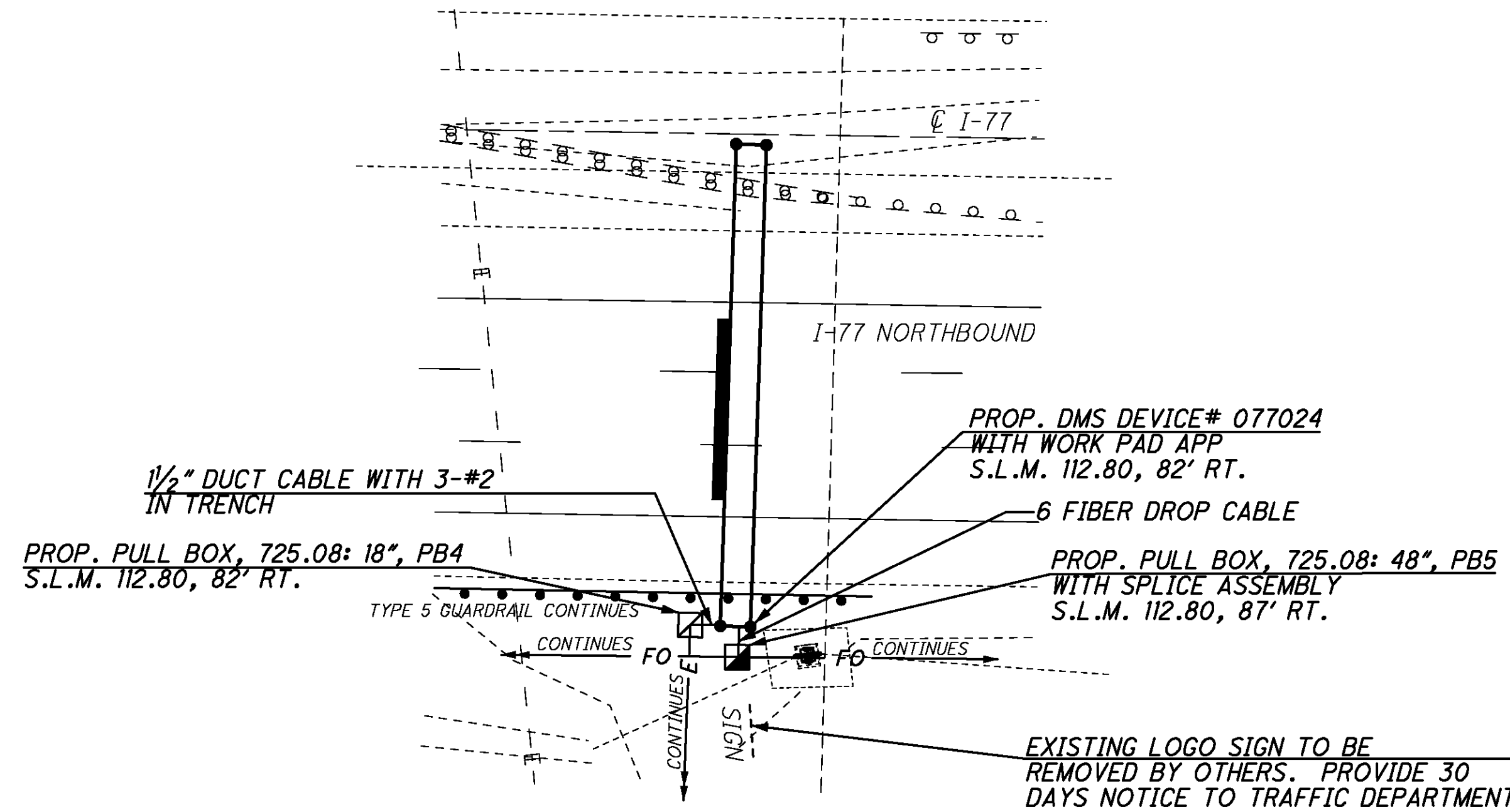
PROP. PULL BOX, 725.08: 18", PB6  
S.L.M. 112.79, 215' RT.

PROP. PULL BOX, 725.08: 18", PB7  
S.L.M. 112.79, 262' RT.

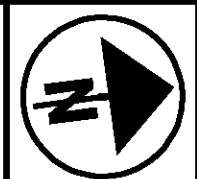
PROP. PULL BOX, 725.08: 18", PB8  
S.L.M. 112.79, 295' RT.



DETAIL "A" - 20 SCALE



REFER TO SHEET 25 FOR TYPICAL DMS DETAILS  
REFER TO SHEET 197 FOR DMS PROFILE  
REFER TO SHEET 321 FOR COMMUNICATION DETAILS



CALCULATED STS  
CHECKED JDG

I-77 AT SHUFFLE DR (MP 112.3 TO MP 112.8)  
JACKSON TOWNSHIP, STARK COUNTY

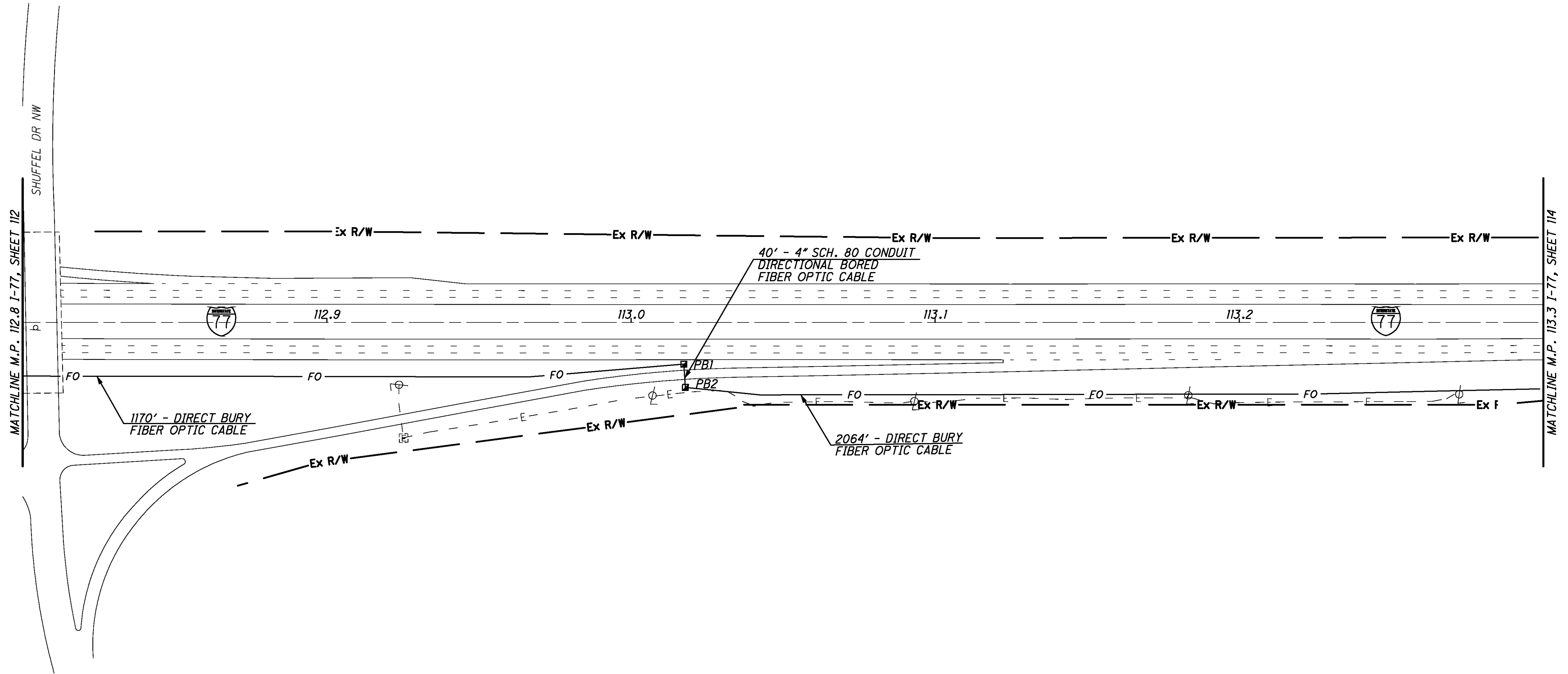
STA-SUM ITS

112  
390

DMS 077024

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PROP. PULL BOX, 725.08: 32", PB1  
 S.L.M. 113.02, 73' RT.

PROP. PULL BOX, 725.08: 32", PB2  
 S.L.M. 113.02, 113' RT.

CALCULATED STS  
 CHECKED JDG

0 50 100 200  
 HORIZONTAL SCALE IN FEET

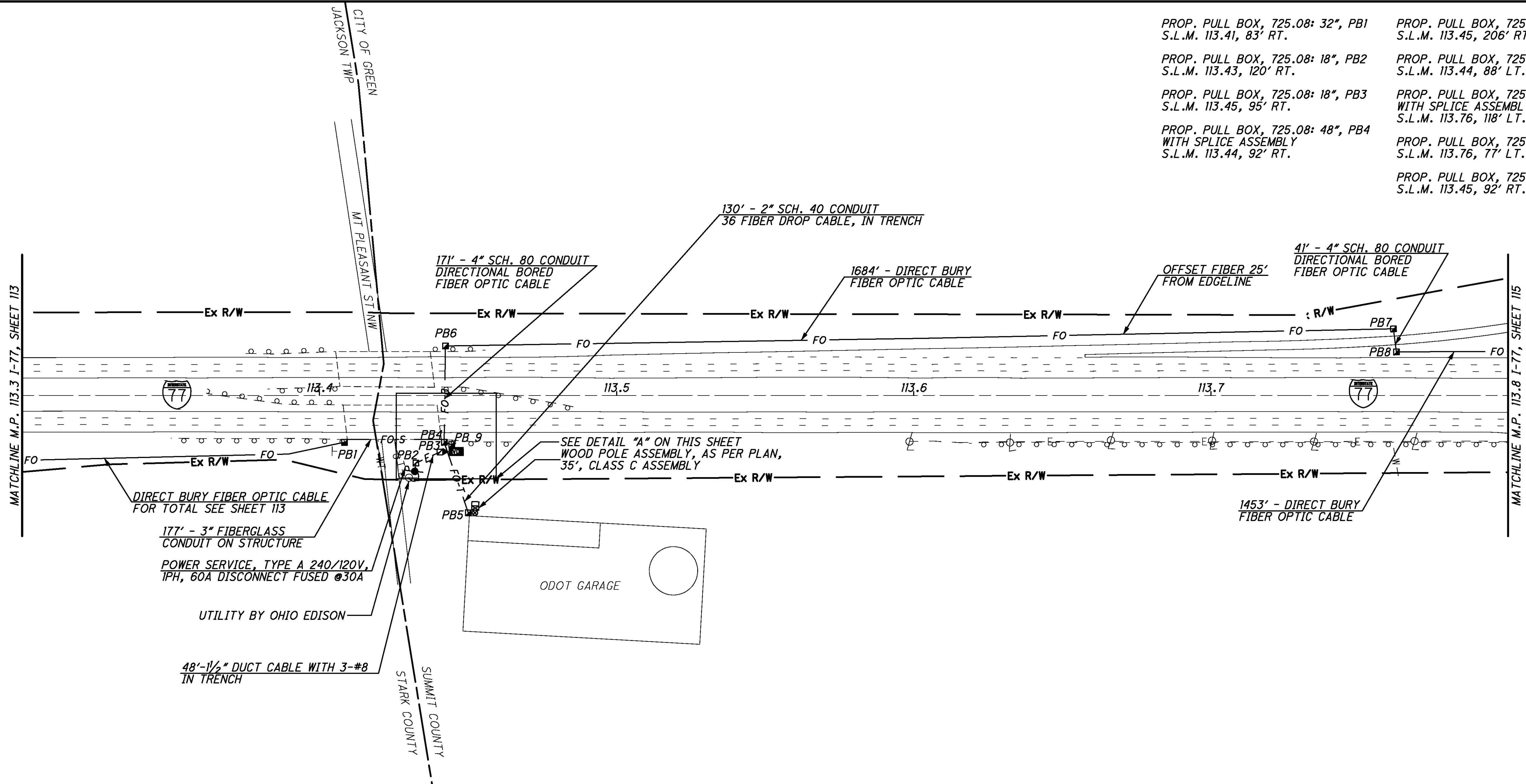
I-77 AT SHUFFLE DR (MP 112.8 TO MP 113.3)  
 JACKSON TOWNSHIP, STARK COUNTY

STA-SUM ITS

113  
 390

NO FIELD DEVICE ON THIS SHEET

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- PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 113.41, 83' RT.
- PROP. PULL BOX, 725.08: 18", PB2  
S.L.M. 113.43, 120' RT.
- PROP. PULL BOX, 725.08: 18", PB3  
S.L.M. 113.45, 95' RT.
- PROP. PULL BOX, 725.08: 48", PB4  
WITH SPLICE ASSEMBLY  
S.L.M. 113.44, 92' RT.
- PROP. PULL BOX, 725.08: 32", PB5  
S.L.M. 113.45, 206' RT.
- PROP. PULL BOX, 725.08: 32", PB6  
S.L.M. 113.44, 88' LT.
- PROP. PULL BOX, 725.08: 48", PB7  
WITH SPLICE ASSEMBLY  
S.L.M. 113.76, 118' LT.
- PROP. PULL BOX, 725.08: 32", PB8  
S.L.M. 113.76, 77' LT.
- PROP. PULL BOX, 725.08: 32", PB9  
S.L.M. 113.45, 92' RT.

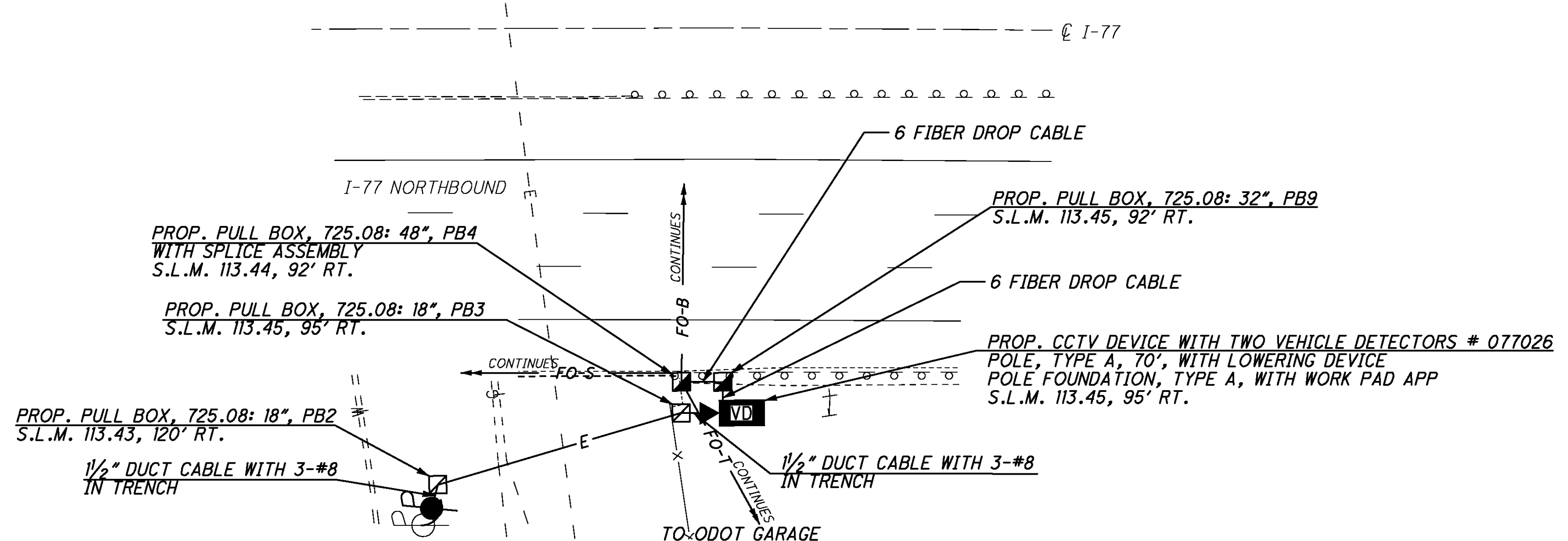
CALCULATED STS CHECKED JDG

HORIZONTAL SCALE IN FEET

I-77 AT MT PLEASANT (MP 113.3 TO MP 113.8)  
CITY OF GREEN, SUMMIT COUNTY

STA-SUM ITS  
114  
390

DETAIL "A" - 20 SCALE



- REFER TO SHEET 13 FOR TYPICAL CONDUIT ATTACHED TO STRUCTURE DETAILS
- REFER TO SHEET 24 FOR TYPICAL CCTV WITH TWO VEHICLE DETECTORS DETAILS
- REFER TO SHEET 39 FOR TYPICAL WOOD POLE ASSEMBLY DETAILS
- REFER TO SHEET 237 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR BRIDGE OVER MT. PLEASANT ROAD
- REFER TO SHEETS 322-324 FOR COMMUNICATION DETAILS

CCTV 077026

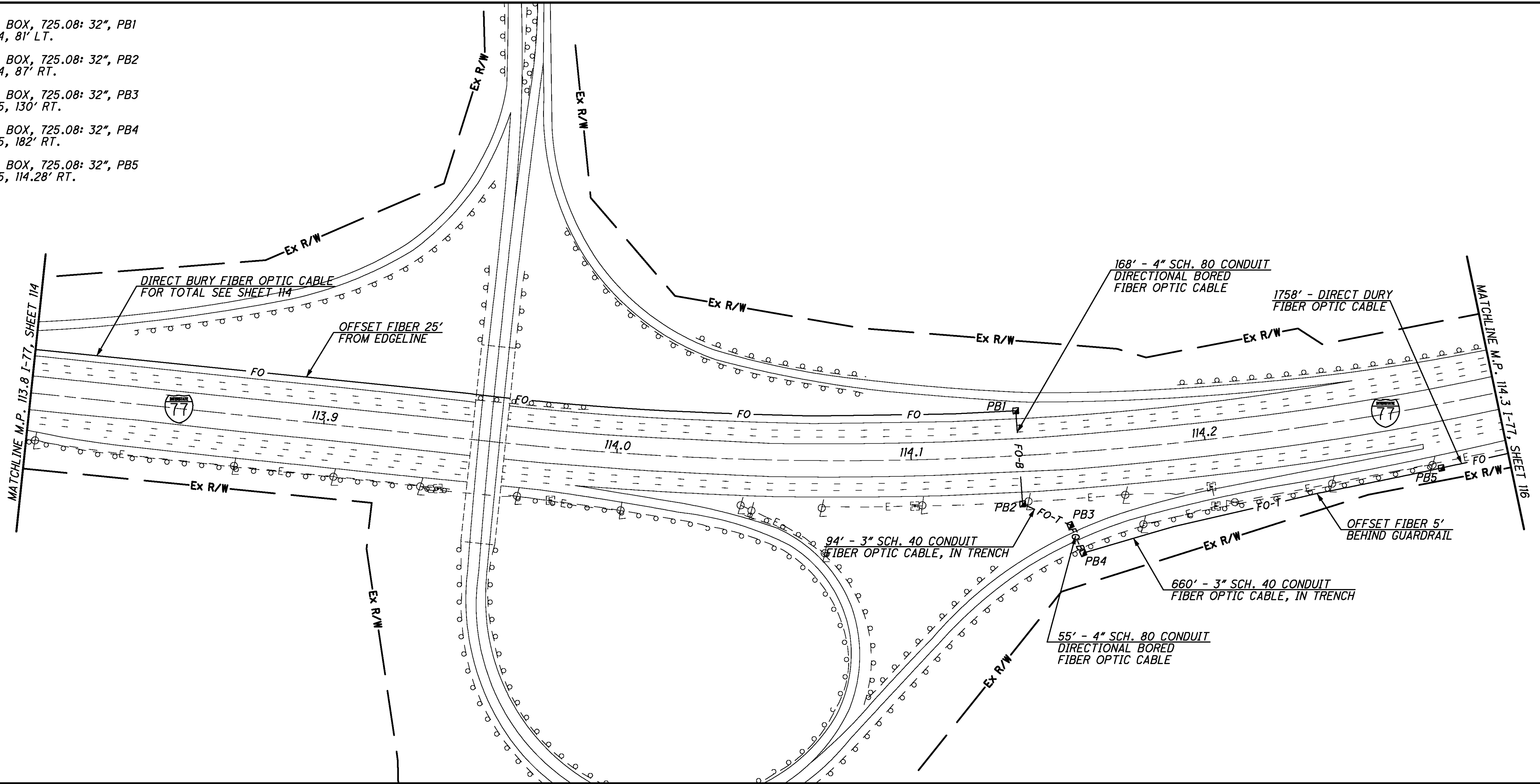
PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 114.14, 81' LT.

PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 114.14, 87' RT.

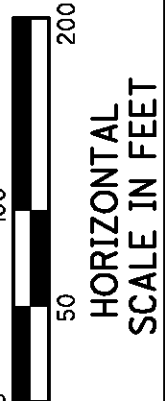
PROP. PULL BOX, 725.08: 32", PB3  
S.L.M. 114.15, 130' RT.

PROP. PULL BOX, 725.08: 32", PB4  
S.L.M. 114.15, 182' RT.

PROP. PULL BOX, 725.08: 32", PB5  
S.L.M. 114.15, 114.28' RT.



NO FIELD DEVICE ON THIS SHEET



CALCULATED STS  
CHECKED JDG

I-77 AT ACR AIRPORT (MP 113.8 TO MP 114.3)  
CITY OF GREEN, SUMMIT COUNTY

STA-SUM ITS

115  
390



PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 114.60, 93' RT.

PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 114.76, 95' RT.

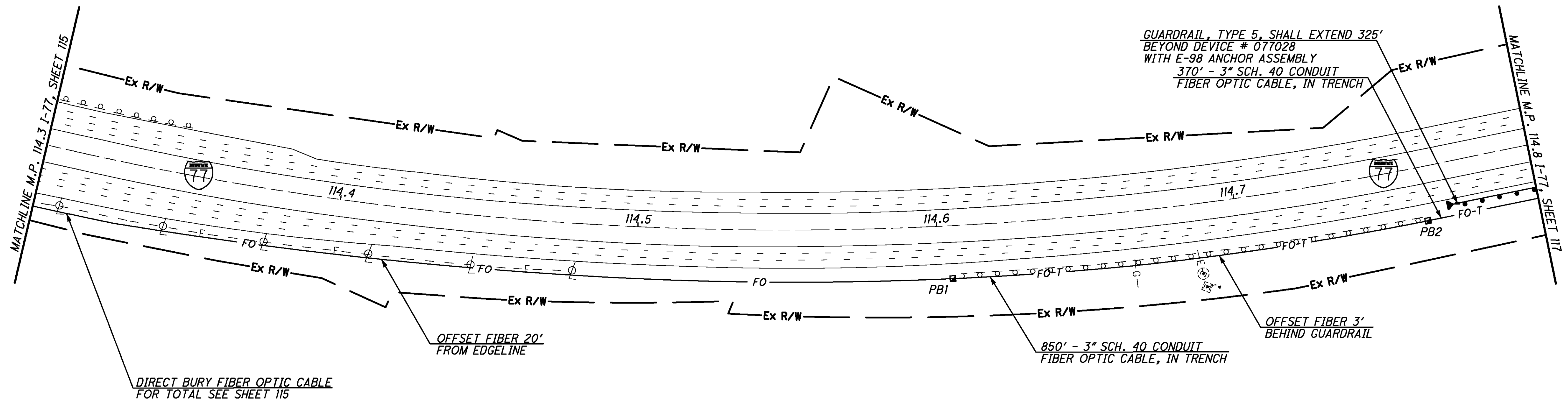


CALCULATED STS  
CHECKED JDG

I-77 AT GREENSBURG RD(MP 114.3 TO MP 114.8)  
CITY OF GREEN, SUMMIT COUNTY

STA - SUM ITS

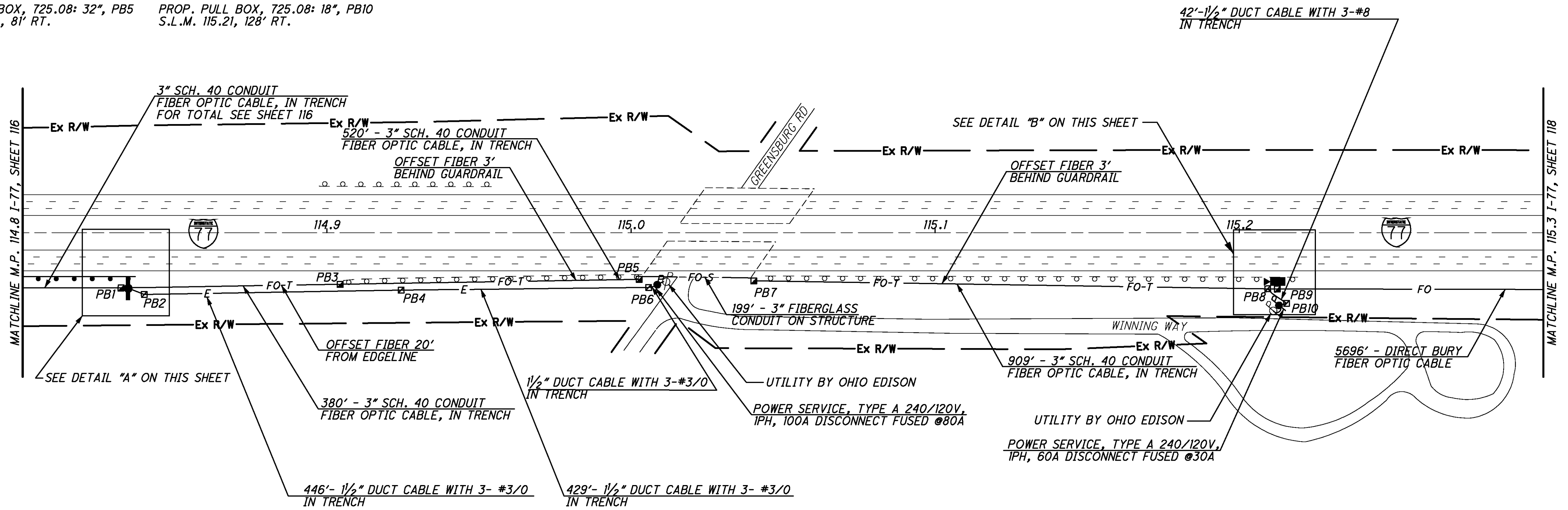
116  
390



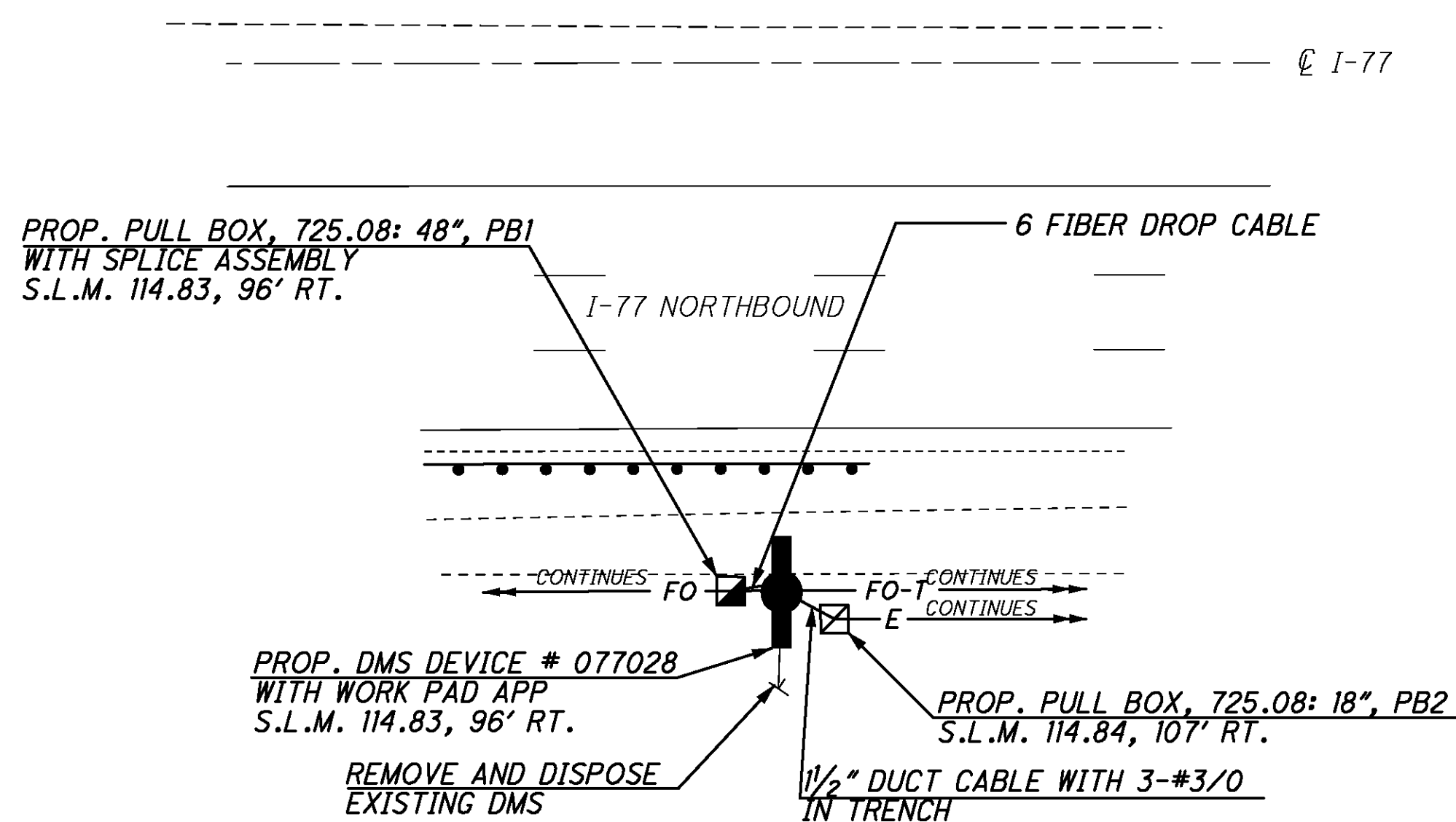
NO FIELD DEVICE ON THIS SHEET

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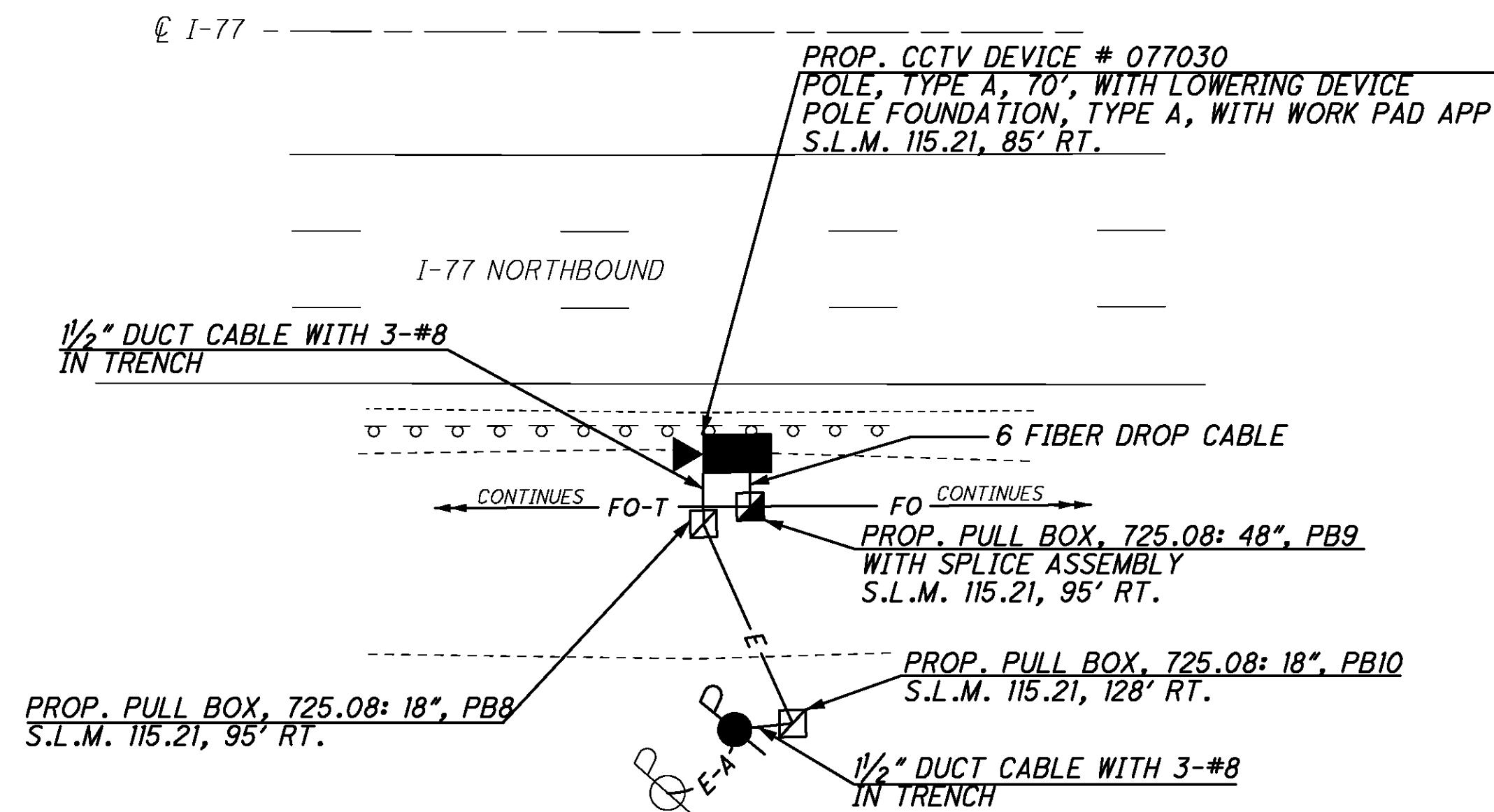
- PROP. PULL BOX, 725.08: 48", PB1 WITH SPLICE ASSEMBLY S.L.M. 114.83, 96' RT.
- PROP. PULL BOX, 725.08: 18", PB2 S.L.M. 114.84, 107' RT.
- PROP. PULL BOX, 725.08: 32", PB3 S.L.M. 114.90, 90' RT.
- PROP. PULL BOX, 725.08: 18", PB4 S.L.M. 114.92, 100' RT.
- PROP. PULL BOX, 725.08: 32", PB5 S.L.M. 115.00, 81' RT.
- PROP. PULL BOX, 725.08: 18", PB6 S.L.M. 115.01, 95' RT.
- PROP. PULL BOX, 725.08: 32", PB7 S.L.M. 115.04, 83' RT.
- PROP. PULL BOX, 725.08: 18", PB8 S.L.M. 115.21, 95' RT.
- PROP. PULL BOX, 725.08: 48", PB9 WITH SPLICE ASSEMBLY S.L.M. 115.21, 95' RT.
- PROP. PULL BOX, 725.08: 18", PB10 S.L.M. 115.21, 128' RT.



DETAIL "A" - 20 SCALE

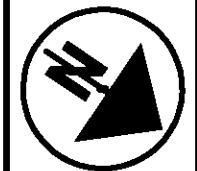


DETAIL "B" - 20 SCALE



REFER TO SHEET 13 FOR TYPICAL CONDUIT ATTACHED TO STRUCTURE DETAILS  
 REFER TO SHEET 23 FOR TYPICAL CCTV DETAILS  
 REFER TO SHEET 25 FOR TYPICAL DMS DETAILS  
 REFER TO SHEET 238 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR BRIDGE OVER GREENSBURG ROAD  
 REFER TO SHEET 325 FOR DEVICE NO. 077028 COMMUNICATION DETAILS  
 REFER TO SHEET 326 FOR DEVICE NO. 077030 COMMUNICATION DETAILS

DMS 077028  
 CCTV 077030



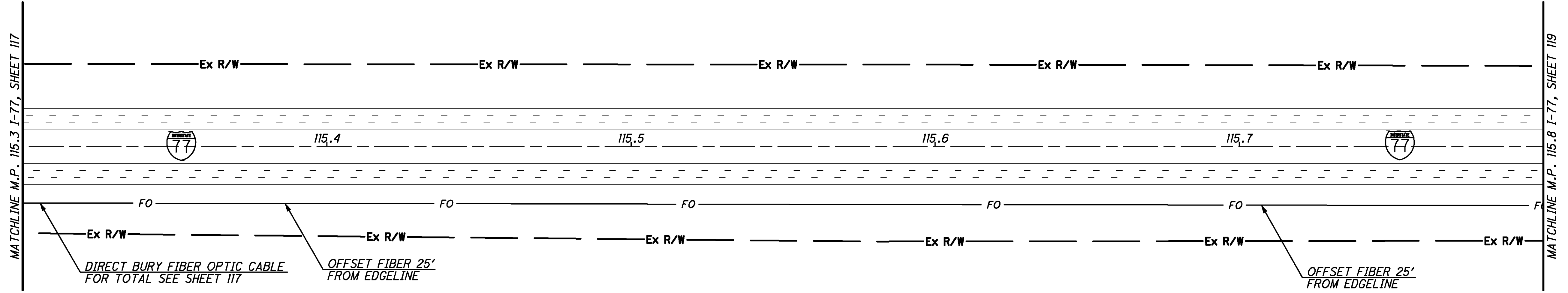
CALCULATED STS CHECKED JDG

1-77 AT GREENSBURG RD(MP 114.8 TO MP 115.3)  
 CITY OF GREEN, SUMMIT COUNTY

STA-SUM ITS

117  
 390

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NO FIELD DEVICE ON THIS SHEET

CALCULATED STS  
CHECKED JDG

0 50 100 200  
HORIZONTAL SCALE IN FEET

I-77 AT GREENSBURG RD (MP 115.3 TO 115.8)  
CITY OF GREEN, SUMMIT COUNTY

STA - SUM ITS

118  
390

PROP. PULL BOX, 725.08: 48", PB1  
WITH SPLICE ASSEMBLY  
S.L.M. 116.29, 85' RT.

PROP. PULL BOX, 725.08: 18", PB2  
S.L.M. 116.28, 94' LT.

PROP. PULL BOX, 725.08: 18", PB3  
S.L.M. 116.28, 137' LT.

PROP. PULL BOX, 725.08: 32", PB4  
S.L.M. 116.30, 90' LT.

PROP. PULL BOX, 725.08: 18", PB5  
S.L.M. 116.30, 94' LT.

POWER SERVICE, TYPE A 240/120V,  
1PH, 100A DISCONNECT FUSED @80A

1/2" DUCT CABLE WITH 3-#4  
IN TRENCH

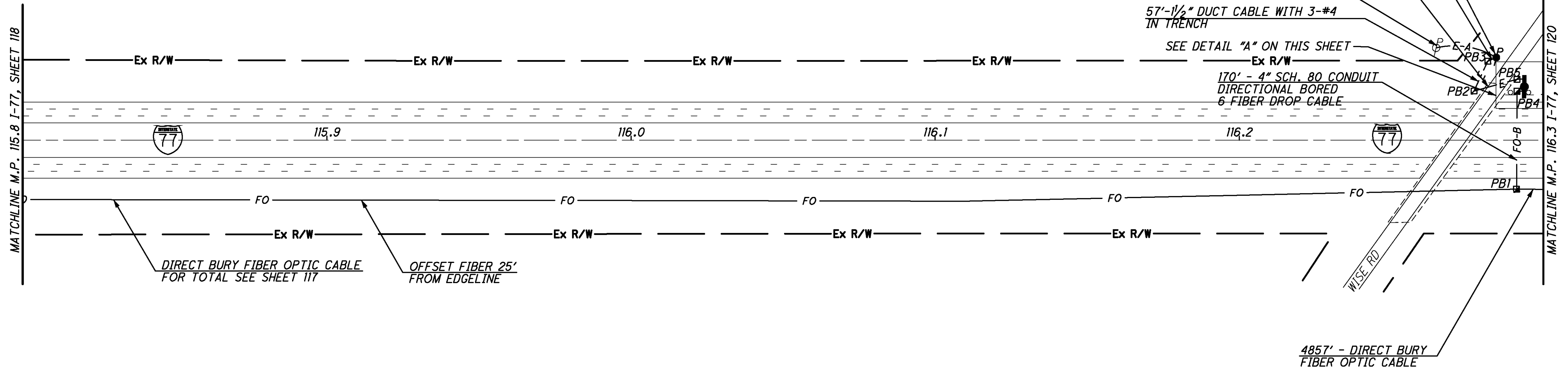
77'-1/2" DUCT CABLE WITH 3-#4  
IN TRENCH

UTILITY BY OHIO EDISON

57'-1/2" DUCT CABLE WITH 3-#4  
IN TRENCH

SEE DETAIL "A" ON THIS SHEET

170' - 4" SCH. 80 CONDUIT  
DIRECTIONAL BORED  
6 FIBER DROP CABLE

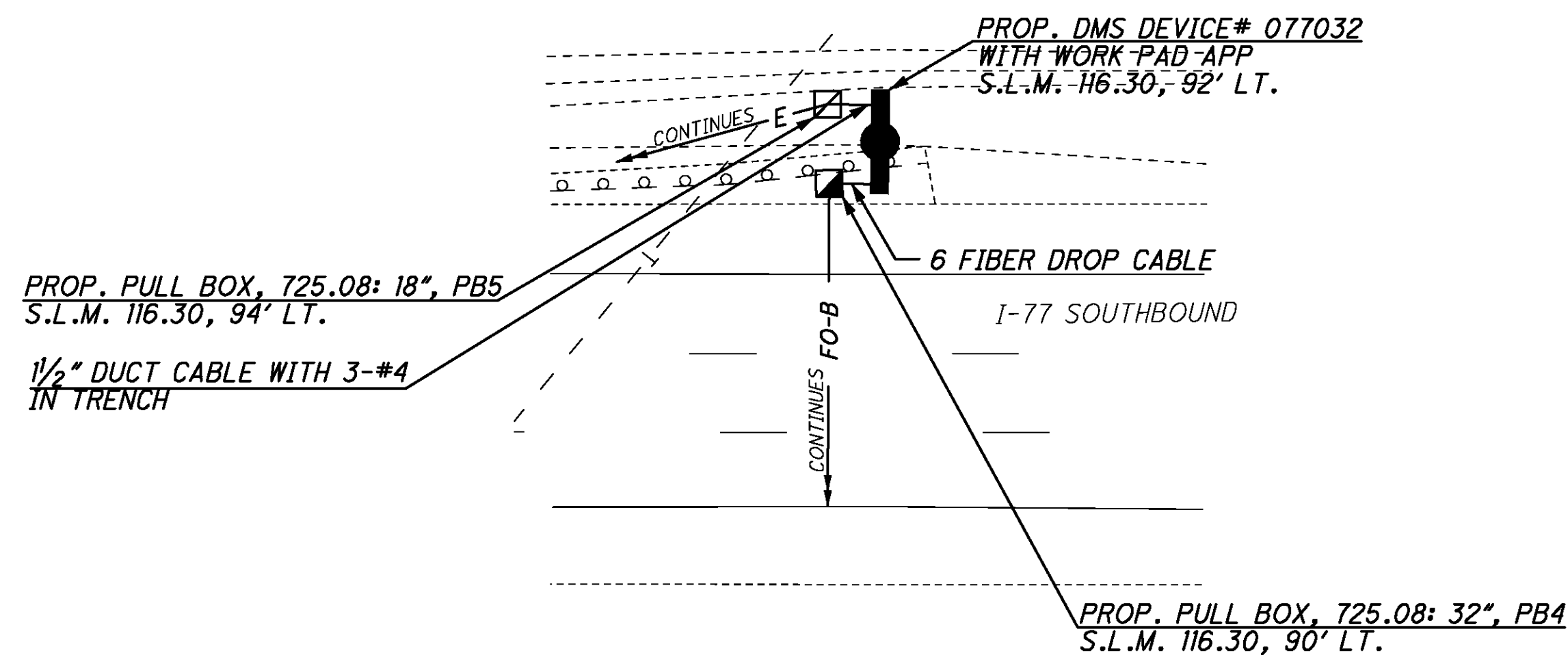


DIRECT BURY FIBER OPTIC CABLE  
FOR TOTAL SEE SHEET 117

OFFSET FIBER 25'  
FROM EDGELINE

4857' - DIRECT BURY  
FIBER OPTIC CABLE

DETAIL "A" - 20 SCALE



REFER TO SHEET 25 FOR TYPICAL DMS DETAILS  
REFER TO SHEET 327 FOR COMMUNICATION DETAILS

© I-77



CALCULATED STS  
CHECKED JDG

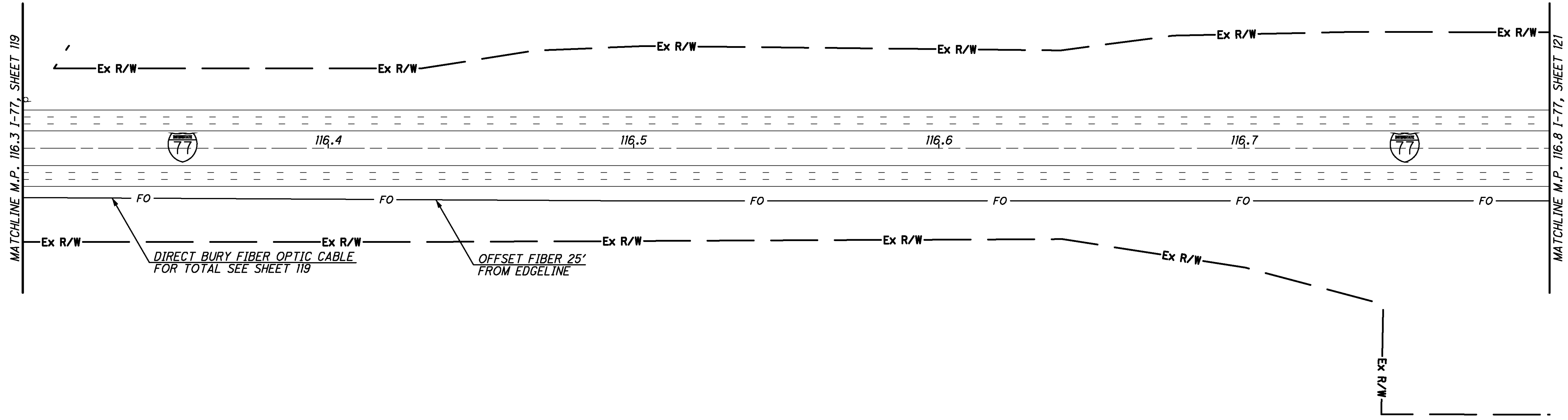
I-77 AT WISE RD (MP 115.8 TO MP 116.3)  
CITY OF GREEN, SUMMIT COUNTY

STA-SUM ITS

119  
390

DMS 077032

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NO FIELD DEVICE ON THIS SHEET

CALCULATED	STS
CHECKED	JDG

I-77 AT WISE RD (MP 116.3 TO MP 116.8)  
CITY OF GREEN, SUMMIT COUNTY

STA - SUM ITS

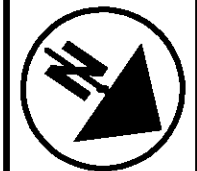
120  
390



PROP. PULL BOX, 725.08: 48", PB1  
WITH SPLICE ASSEMBLY  
S.L.M. 117.21, 114' RT.

PROP. PULL BOX, 725.08: 18", PB2  
S.L.M. 117.21, 124' RT.

PROP. PULL BOX, 725.08: 18", PB3  
S.L.M. 117.21, 134' RT.

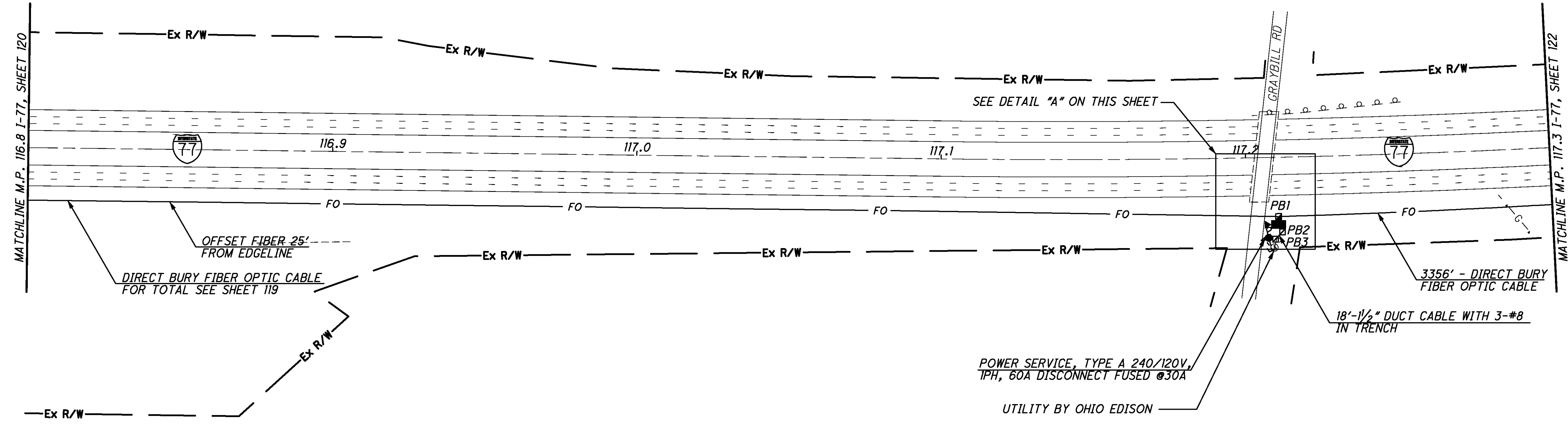


CALCULATED STS  
CHECKED JDG

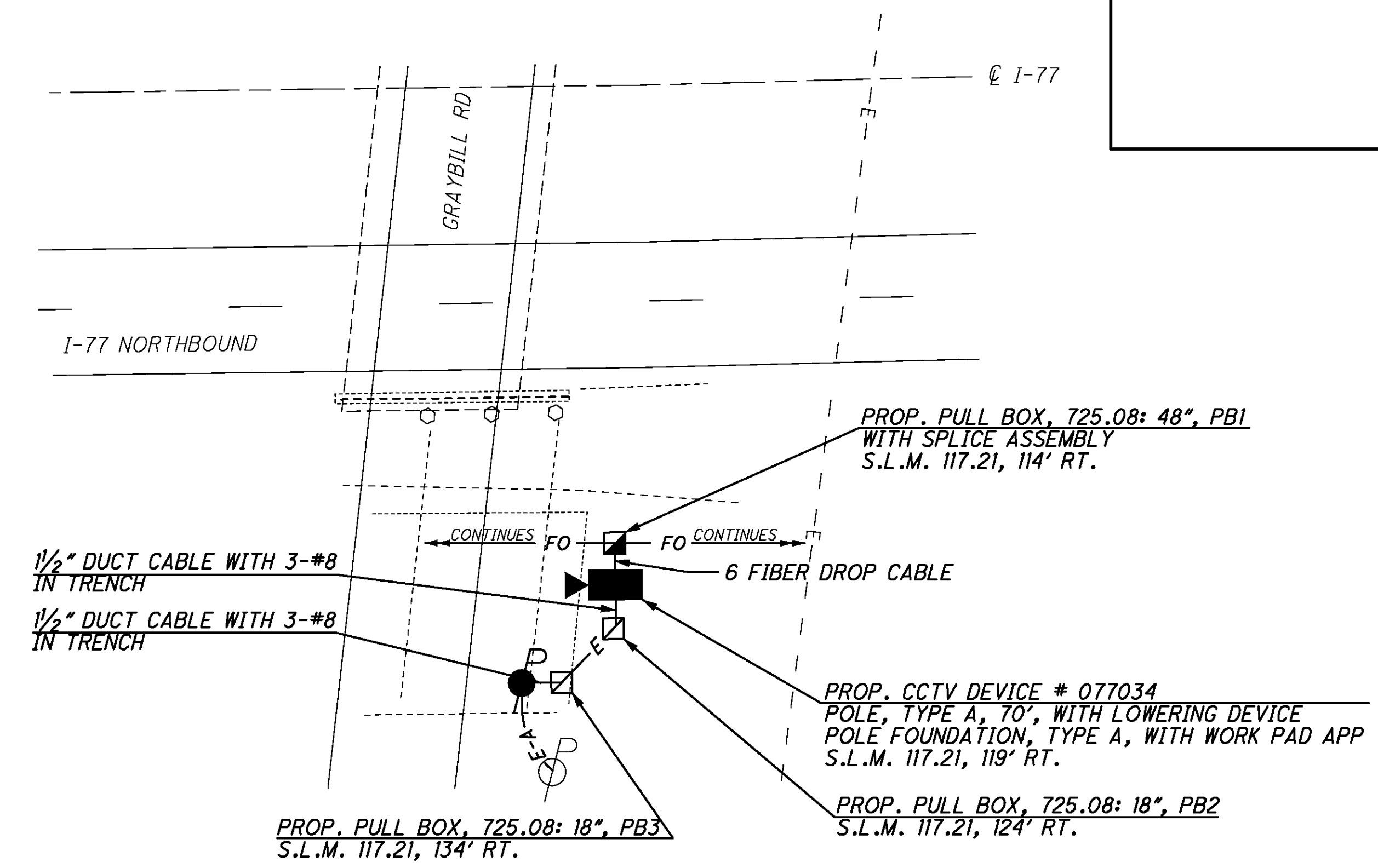
I-77 AT GRAYBILL RD (MP 116.8 TO 117.3)  
CITY OF GREEN, SUMMIT COUNTY

STA-SUM ITS

121  
390



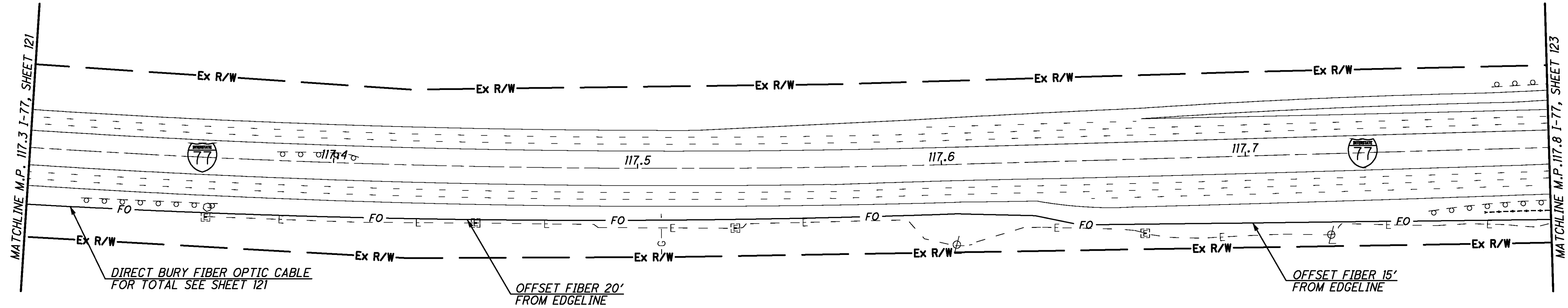
DETAIL "A" - 20 SCALE



REFER TO SHEET 23 FOR TYPICAL CCTV DETAILS  
REFER TO SHEET 328 FOR COMMUNICATION DETAILS

CCTV 077034

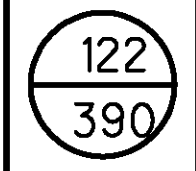
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NO FIELD DEVICE ON THIS SHEET

	 HORIZONTAL SCALE IN FEET
	CALCULATED STS CHECKED JDG

I-77 AT GRAYBILL RD (MP 117.3 TO MP 117.8)  
 CITY OF GREEN, SUMMIT COUNTY

STA - SUM ITS	
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PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 117.84, 138' RT.

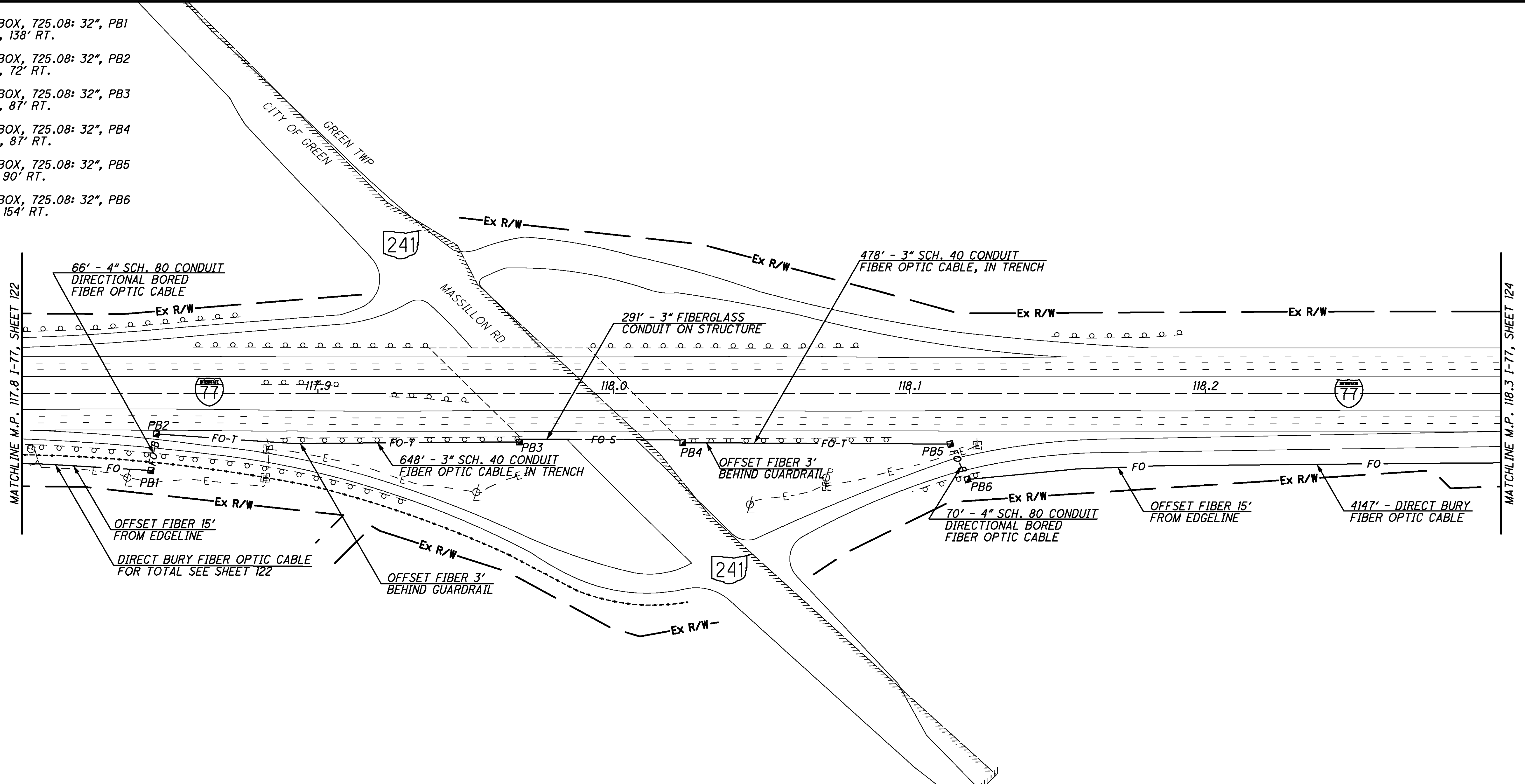
PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 117.84, 72' RT.

PROP. PULL BOX, 725.08: 32", PB3  
S.L.M. 117.97, 87' RT.

PROP. PULL BOX, 725.08: 32", PB4  
S.L.M. 118.02, 87' RT.

PROP. PULL BOX, 725.08: 32", PB5  
S.L.M. 118.11, 90' RT.

PROP. PULL BOX, 725.08: 32", PB6  
S.L.M. 118.11, 154' RT.



CALCULATED STS  
CHECKED JDG

I-77 AT SR-241 (MP 117.8 TO MP 118.3  
CITY OF GREEN, SUMMIT COUNTY

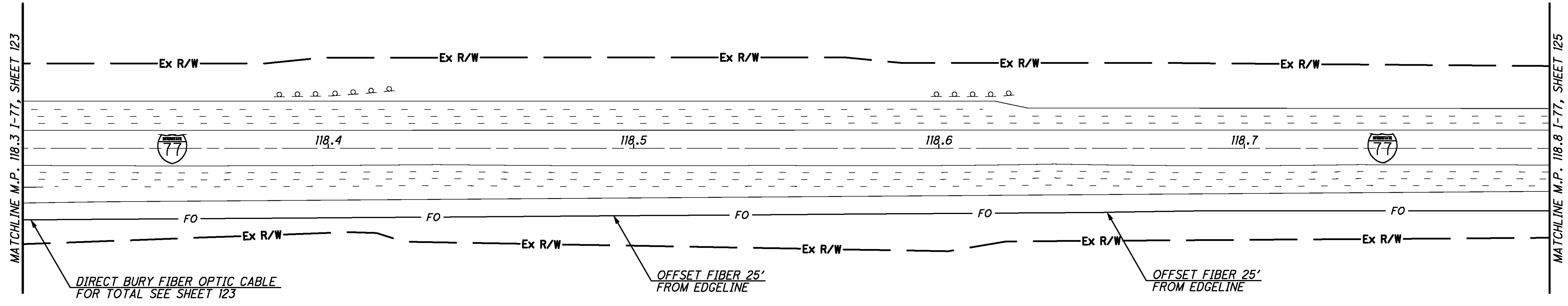
STA - SUM ITS

123  
390

REFER TO SHEET 13 FOR TYPICAL CONDUIT ATTACHED TO STRUCTURE DETAILS  
REFER TO SHEET 239 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR BRIDGE OVER MASSILLON ROAD

NO FIELD DEVICE ON THIS SHEET

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NO FIELD DEVICE ON THIS SHEET

CALCULATED STS	CHECKED JDG
	
HORIZONTAL SCALE IN FEET	

I-77 AT SR-241 (MP 118.3 TO MP 118.8)  
CITY OF GREEN, SUMMIT COUNTY

STA - SUM ITS

PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 118.90, 94' RT.

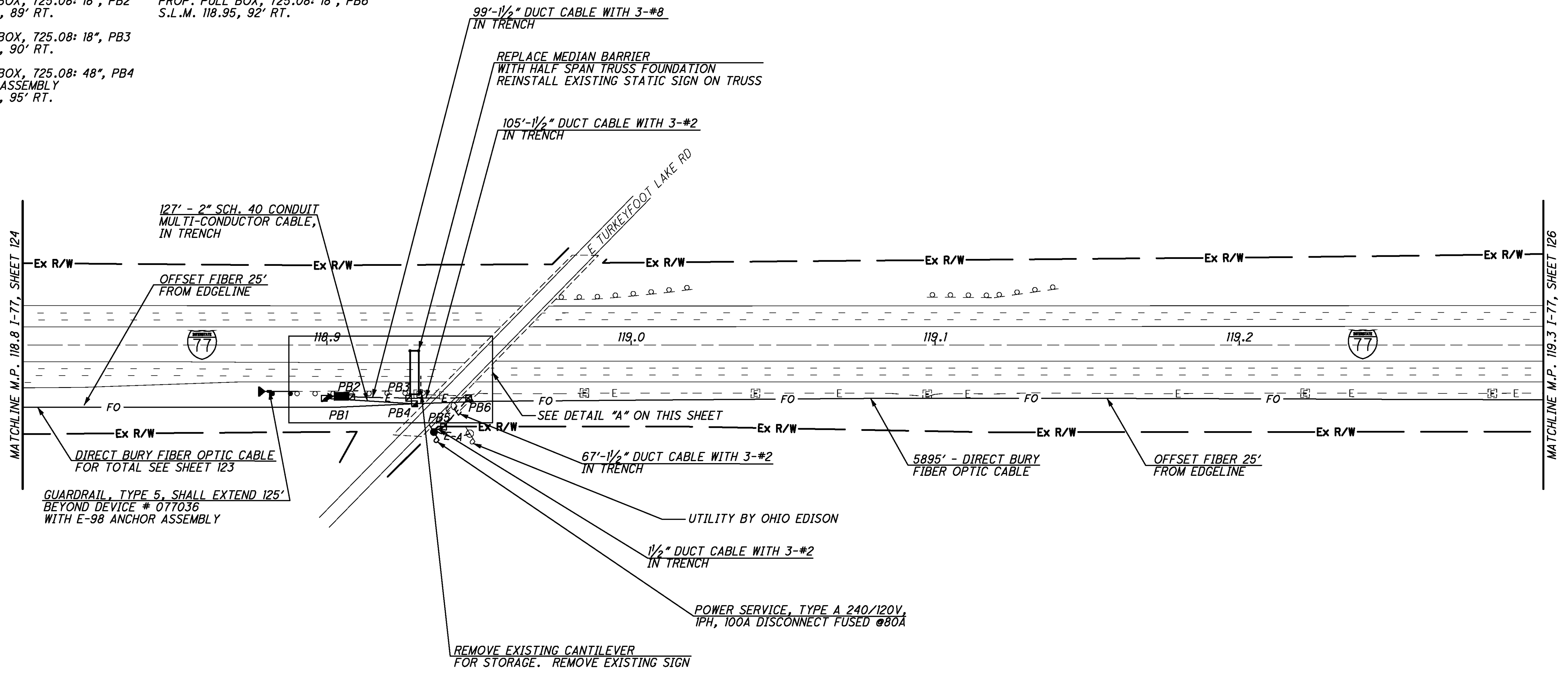
PROP. PULL BOX, 725.08: 18", PB2  
S.L.M. 118.90, 89' RT.

PROP. PULL BOX, 725.08: 18", PB3  
S.L.M. 118.93, 90' RT.

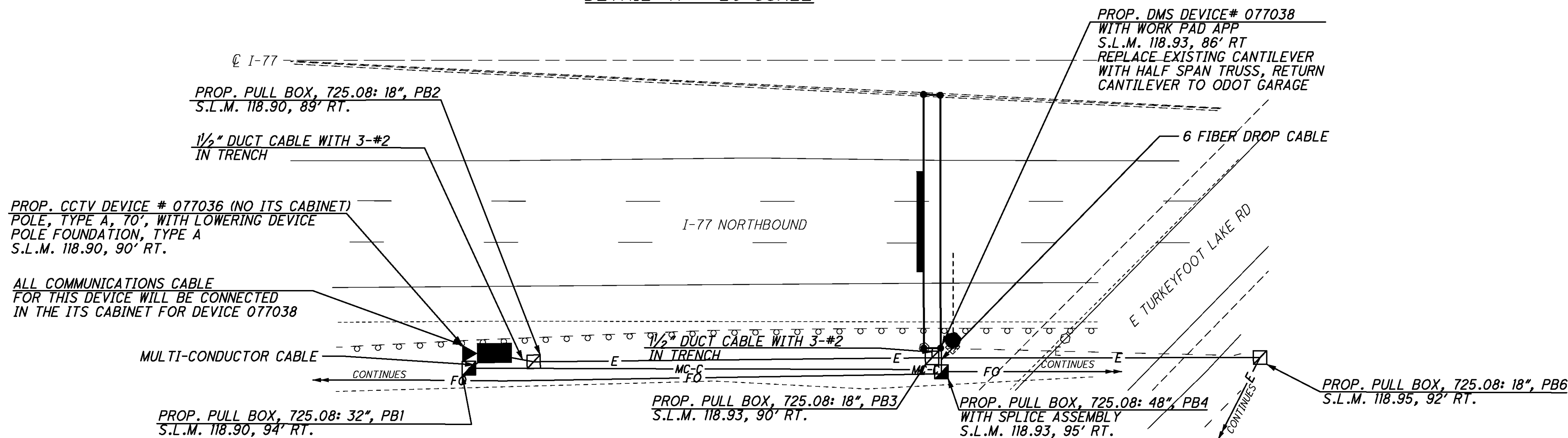
PROP. PULL BOX, 725.08: 48", PB4  
WITH SPLICE ASSEMBLY  
S.L.M. 118.93, 95' RT.

PROP. PULL BOX, 725.08: 18", PB5  
S.L.M. 118.94, 142' RT.

PROP. PULL BOX, 725.08: 18", PB6  
S.L.M. 118.95, 92' RT.

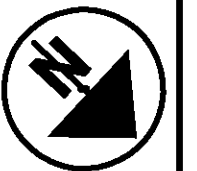


DETAIL "A" - 20 SCALE



REFER TO SHEET 23 FOR TYPICAL CCTV DETAILS  
 REFER TO SHEET 25 FOR TYPICAL DMS DETAILS  
 REFER TO SHEET 198 FOR DMS PROFILE  
 REFER TO SHEET 329 FOR COMMUNICATION DETAILS

CCTV 077036  
DMS 077038



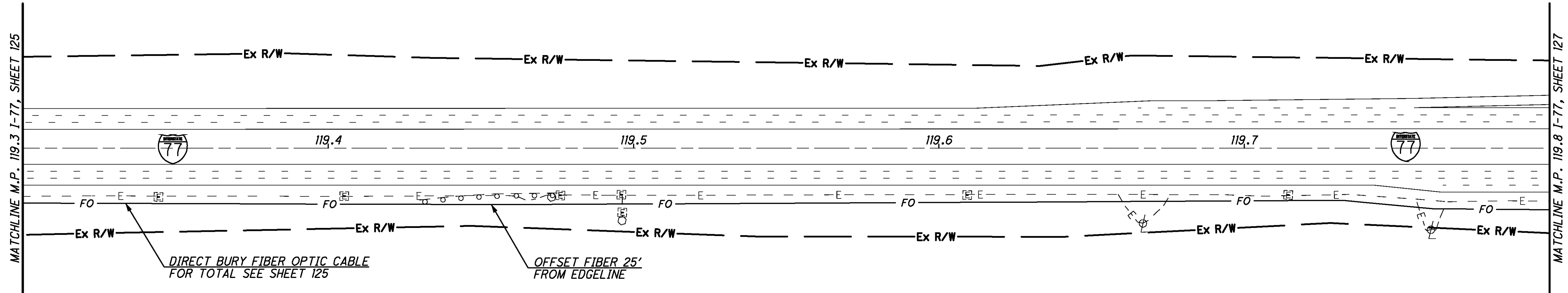
CALCULATED STS  
CHECKED JDG

I-77 AT TURKEYFOOT LAKE (MP 118.8 TO 119.3)  
CITY OF GREEN, SUMMIT COUNTY



STA-SUM ITS

125  
390





NO FIELD DEVICE ON THIS SHEET

	 HORIZONTAL SCALE IN FEET
	CALCULATED STS CHECKED JDG

I-77 AT ARLINGTON RD (MP 119.3 TO MP 119.8)  
CITY OF GREEN, SUMMIT COUNTY

STA - SUM ITS

PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 120.02, 163' RT.

PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 120.03, 128' RT.

PROP. PULL BOX, 725.08: 32", PB3  
S.L.M. 120.10, 132' RT.

PROP. PULL BOX, 725.08: 32", PB4  
S.L.M. 120.11, 142' RT.

PROP. PULL BOX, 725.08: 32", PB5  
S.L.M. 120.16, 95' RT.

PROP. PULL BOX, 725.08: 32", PB6  
S.L.M. 120.23, 94' RT.

PROP. PULL BOX, 725.08: 18", PB7  
S.L.M. 120.23, 124' RT.

PROP. PULL BOX, 725.08: 48", PB8  
WITH SPLICE ASSEMBLY  
S.L.M. 120.24, 99' RT.

PROP. PULL BOX, 725.08: 18", PB9  
S.L.M. 120.24, 99' RT.

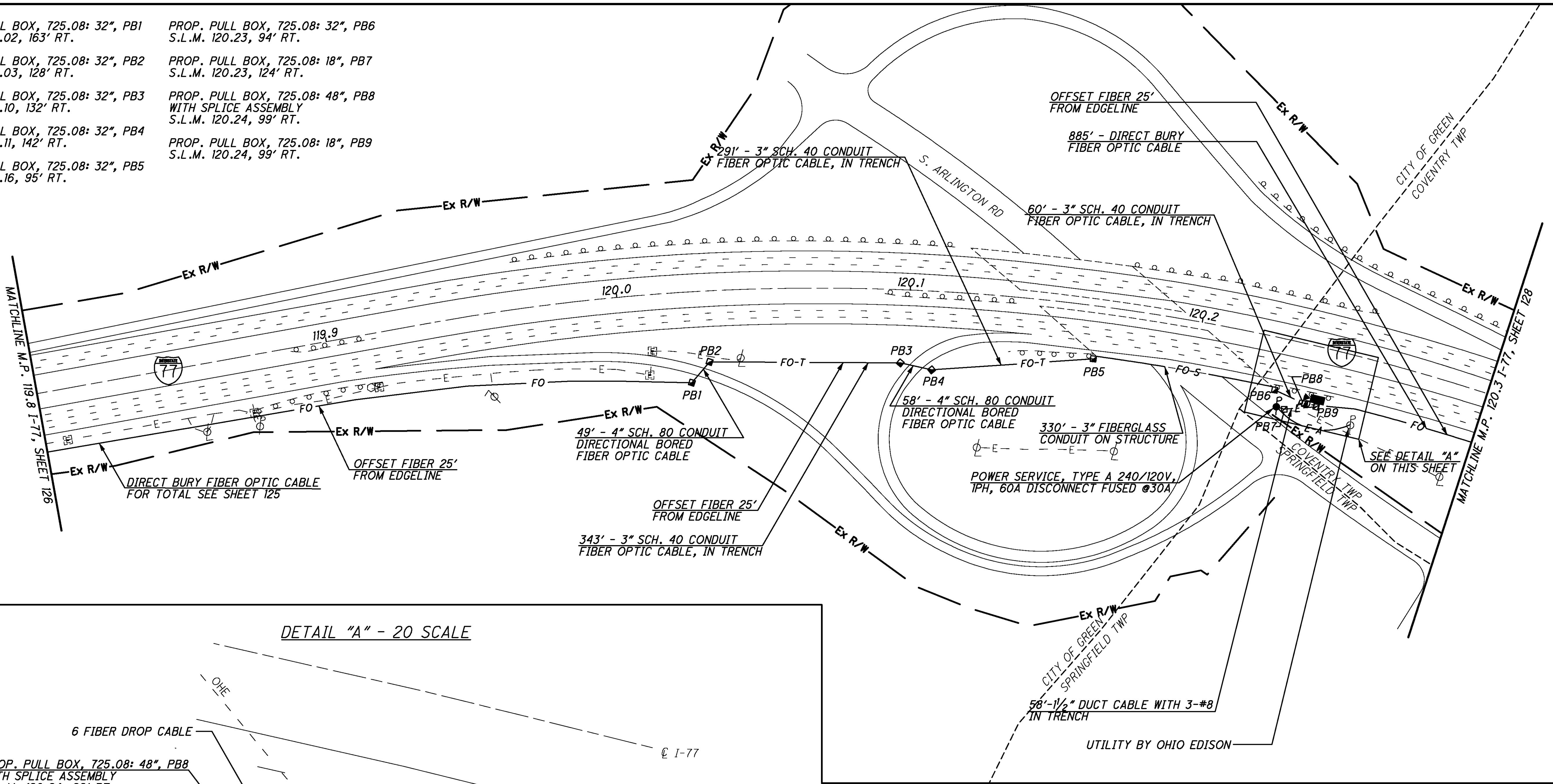


CALCULATED STS  
CHECKED JDG

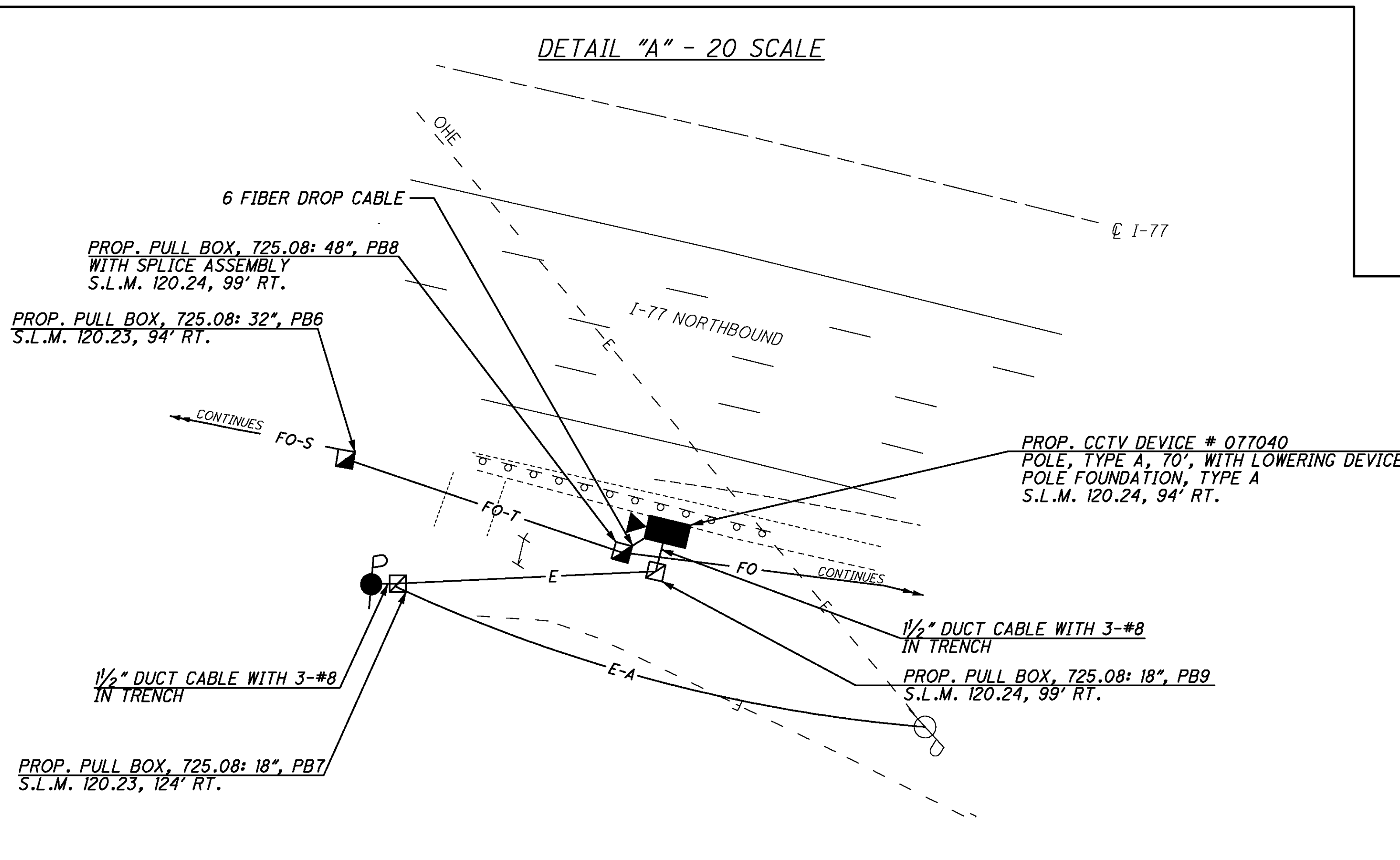
I-77 AT ARLINGTON RD (MP 119.8 TO MP 120.3)  
CITY OF GREEN, SUMMIT COUNTY

STA-SUM ITS  
127  
390

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DETAIL "A" - 20 SCALE

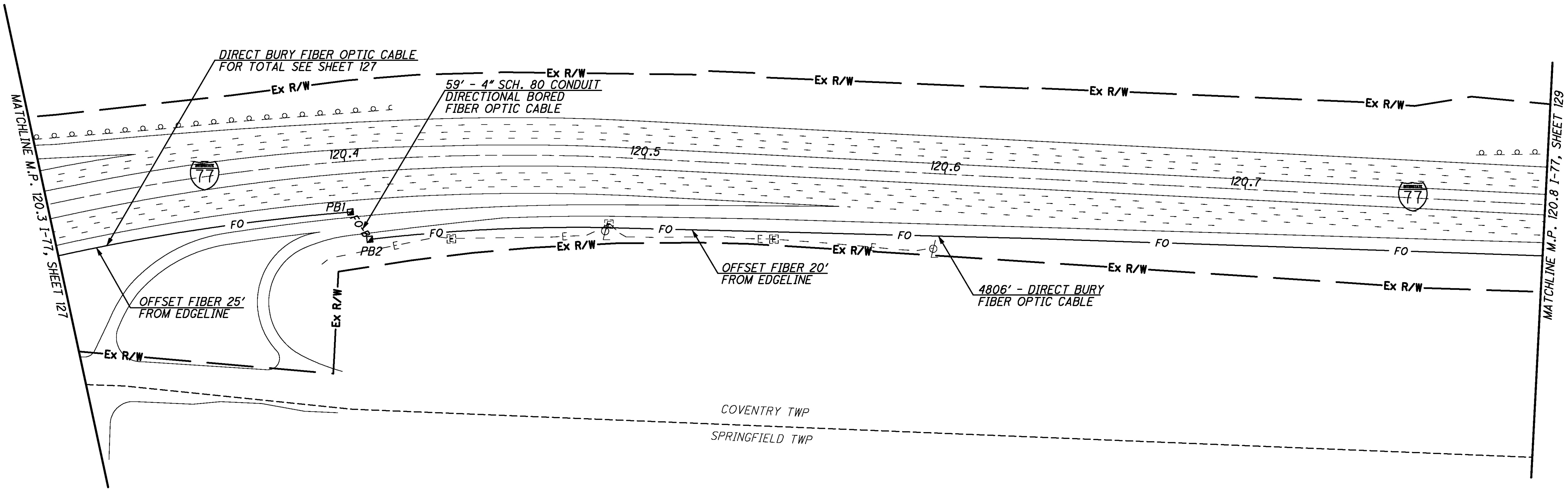


REFER TO SHEET 13 FOR TYPICAL CONDUIT ATTACHED TO STRUCTURE DETAILS  
REFER TO SHEET 23 FOR TYPICAL CCTV DETAILS  
REFER TO SHEET 240 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR BRIDGE OVER ARLINGTON ROAD  
REFER TO SHEET 330 FOR COMMUNICATION DETAILS

CCTV 077040

PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 120.40, 90' RT.

PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 120.40, 140' RT.



NO FIELD DEVICE ON THIS SHEET

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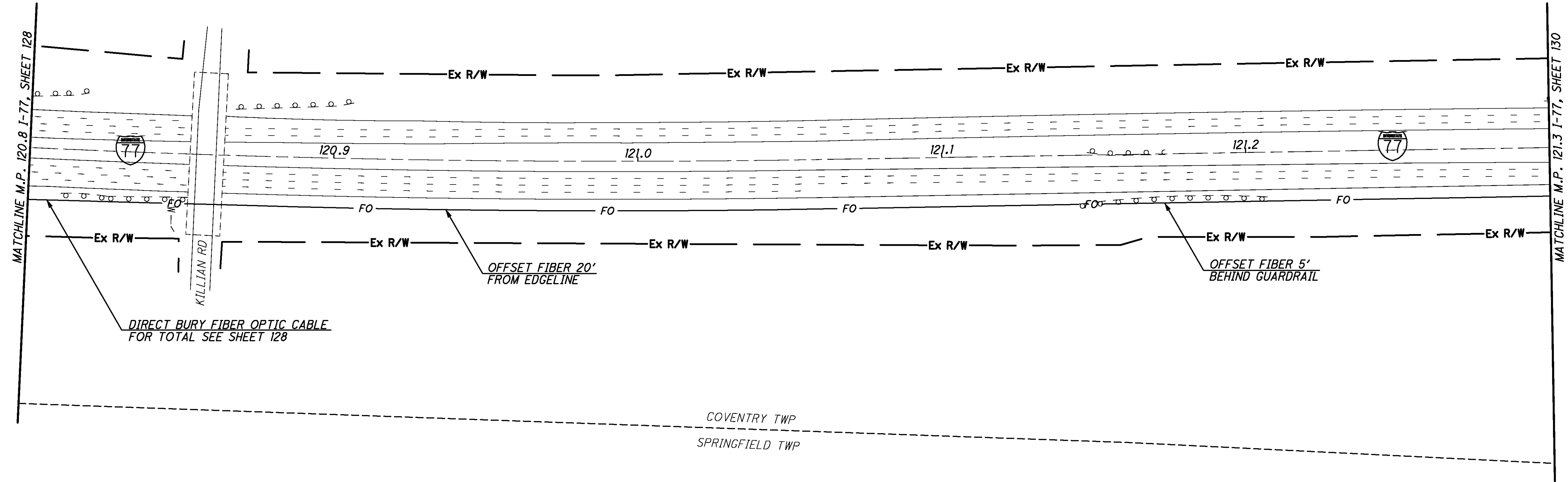
CALCULATED STS  
CHECKED JDG

0 50 100 200  
HORIZONTAL SCALE IN FEET

I-77 AT CHENOWETH RD(MP 120.3 TO MP 120.8)  
COVENTRY TOWNSHIP SUMMIT COUNTY

STA - SUM ITS

128  
390



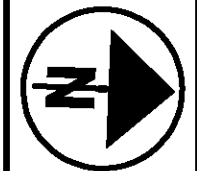
DIRECT BURY FIBER OPTIC CABLE FOR TOTAL SEE SHEET 128

OFFSET FIBER 20' FROM EDGELINE

OFFSET FIBER 5' BEHIND GUARDRAIL

COVENTRY TWP  
SPRINGFIELD TWP

NO FIELD DEVICE ON THIS SHEET



CALCULATED STS  
CHECKED JDG

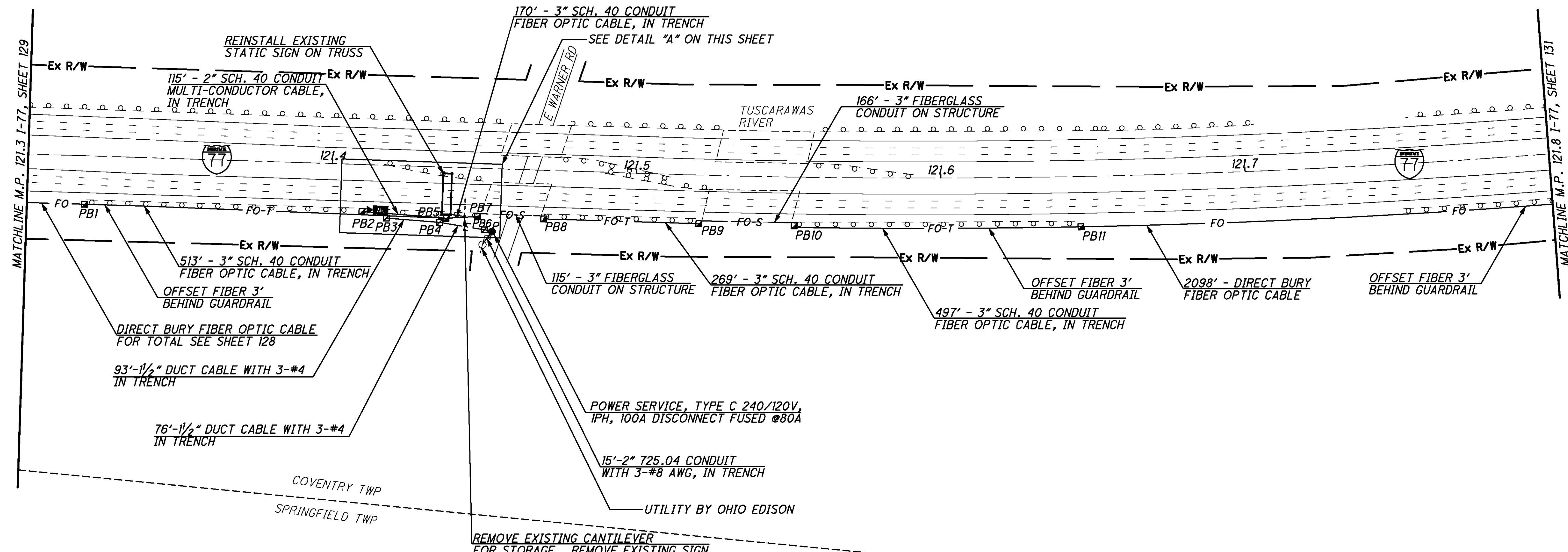
I-77 AT KILLIAN RD (MP 120.8 TO MP 121.3)  
COVENTRY TOWNSHIP, SUMMIT COUNTY

STA - SUM ITS

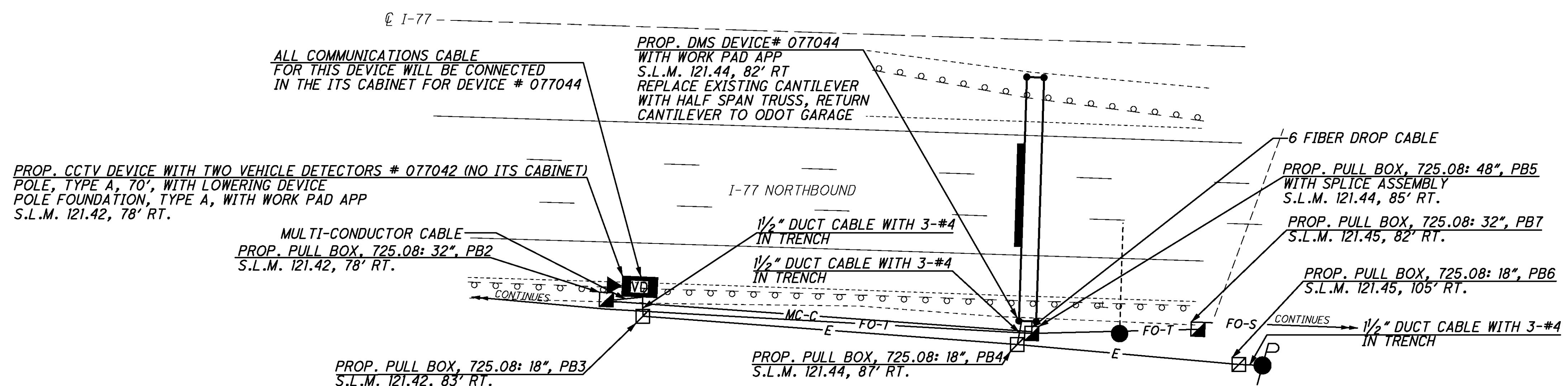
129  
390

- PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 121.32, 84' RT.
- PROP. PULL BOX, 725.08: 32", PB7  
S.L.M. 121.45, 82' RT.
- PROP. PULL BOX, 725.08: 32", PB8  
S.L.M. 121.47, 84' RT.
- PROP. PULL BOX, 725.08: 18", PB3  
S.L.M. 121.42, 83' RT.
- PROP. PULL BOX, 725.08: 32", PB9  
S.L.M. 121.52, 84' RT.
- PROP. PULL BOX, 725.08: 18", PB4  
S.L.M. 121.44, 87' RT.
- PROP. PULL BOX, 725.08: 32", PB10  
S.L.M. 121.55, 84' RT.
- PROP. PULL BOX, 725.08: 48", PB5  
WITH SPLICE ASSEMBLY  
S.L.M. 121.44, 85' RT.
- PROP. PULL BOX, 725.08: 32", PB11  
S.L.M. 121.65, 87' RT.
- PROP. PULL BOX, 725.08: 18", PB6  
S.L.M. 121.45, 105' RT.

  
  
 CALCULATED STS  
 CHECKED JDG



DETAIL "A" - 20 SCALE



REFER TO SHEET 13 FOR TYPICAL CONDUIT ATTACHED TO STRUCTURE DETAILS  
 REFER TO SHEET 24 FOR TYPICAL CCTV WITH TWO VEHICLE DETECTORS DETAILS  
 REFER TO SHEET 25 FOR TYPICAL DMS DETAILS  
 REFER TO SHEET 198 FOR DMS PROFILE  
 REFER TO SHEET 241 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR BRIDGE OVER WARNER ROAD  
 REFER TO SHEET 242 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR BRIDGE OVER TUSCARWAS RIVER  
 REFER TO SHEET 331 FOR COMMUNICATION DETAILS

CCTV 077042  
DMS 077044

I-77 AT WARNER (MP 121.3 TO MP 121.8)  
 COVENTRY TOWNSHIP, SUMMIT COUNTY

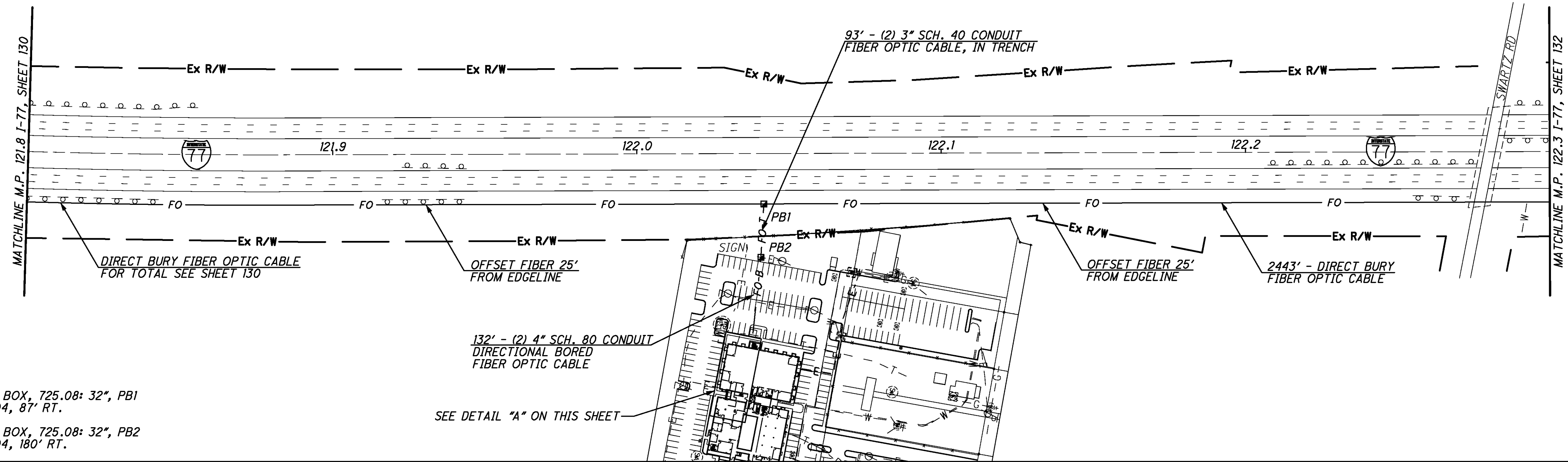
STA-SUM ITS

130  
 390

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J:\JOBS\42430\TECHPROD\13311\traffic\sheet\13311GP074.dgn 12-DEC-2007 11:32AM jshea

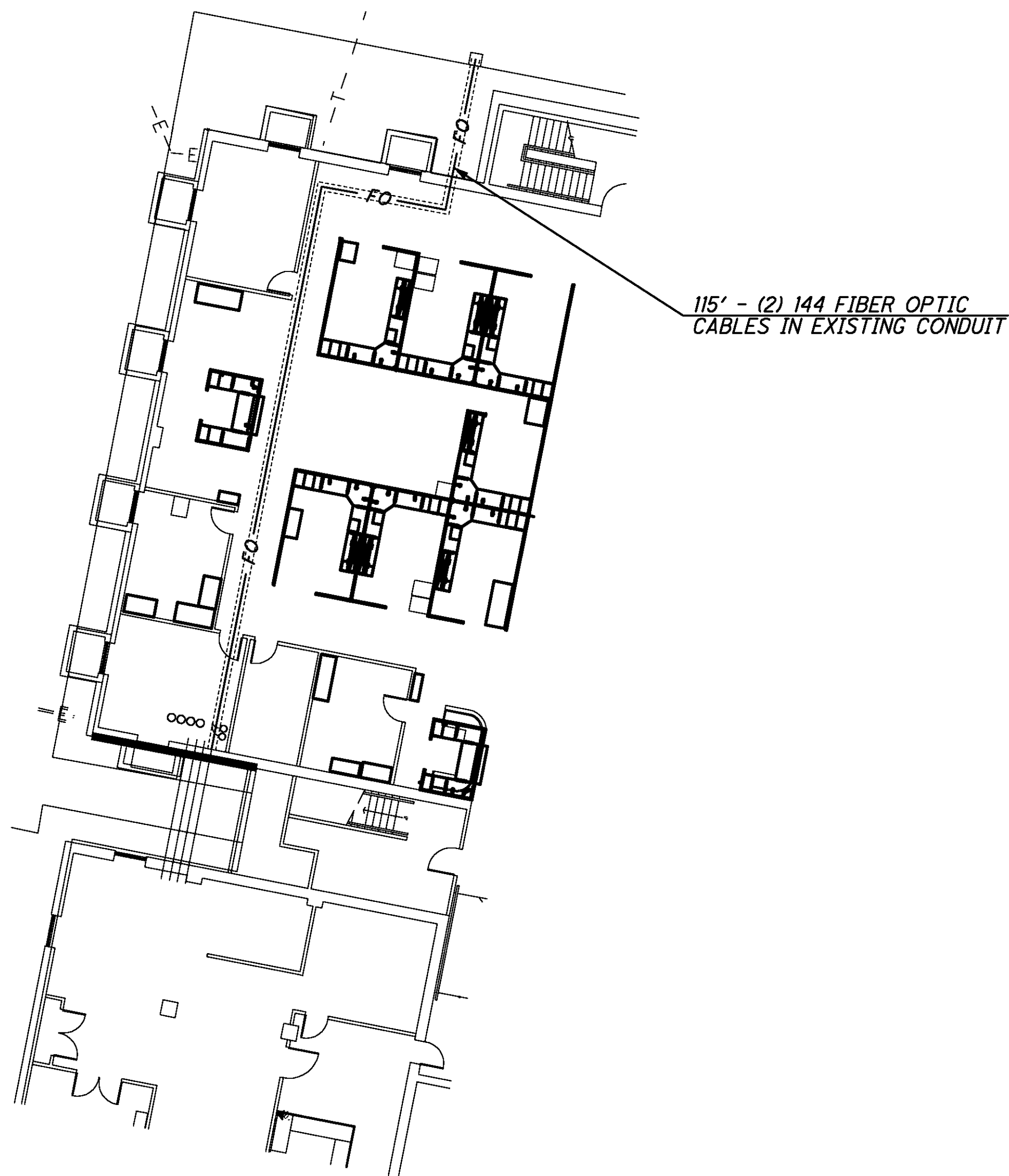


PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 122.04, 87' RT.

PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 122.04, 180' RT.

SEE DETAIL "A" ON THIS SHEET

DETAIL "A" - NOT TO SCALE



REFER TO SHEETS 332-340 FOR COMMUNICATION DETAILS INTO DISTRICT 4 HEADQUARTERS

CALCULATED STS CHECKED JDG

HORIZONTAL SCALE IN FEET

I-77 AT SWARTZ RD (MP 121.8 TO MP 122.3)  
COVENTRY TOWNSHIP, SUMMIT COUNTY

STA-SUM ITS

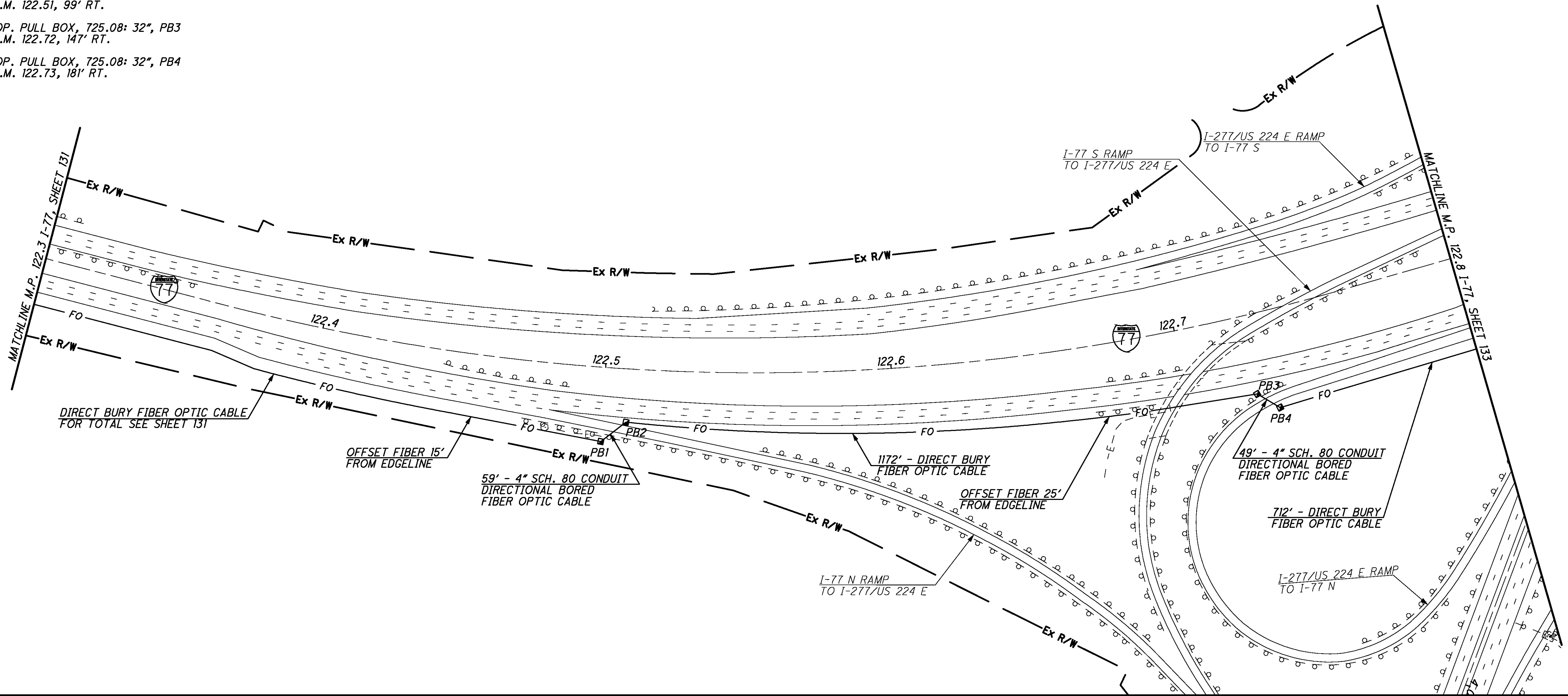
131  
390

PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 122.50, 138' RT.

PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 122.51, 99' RT.

PROP. PULL BOX, 725.08: 32", PB3  
S.L.M. 122.72, 147' RT.

PROP. PULL BOX, 725.08: 32", PB4  
S.L.M. 122.73, 181' RT.



NO FIELD DEVICE ON THIS SHEET



CALCULATED STS CHECKED JDG

I-77 AT I-277 (MP 122.3 TO MP 122.8)  
COVENTRY TOWNSHIP, SUMMIT COUNTY

STA-SUM ITS

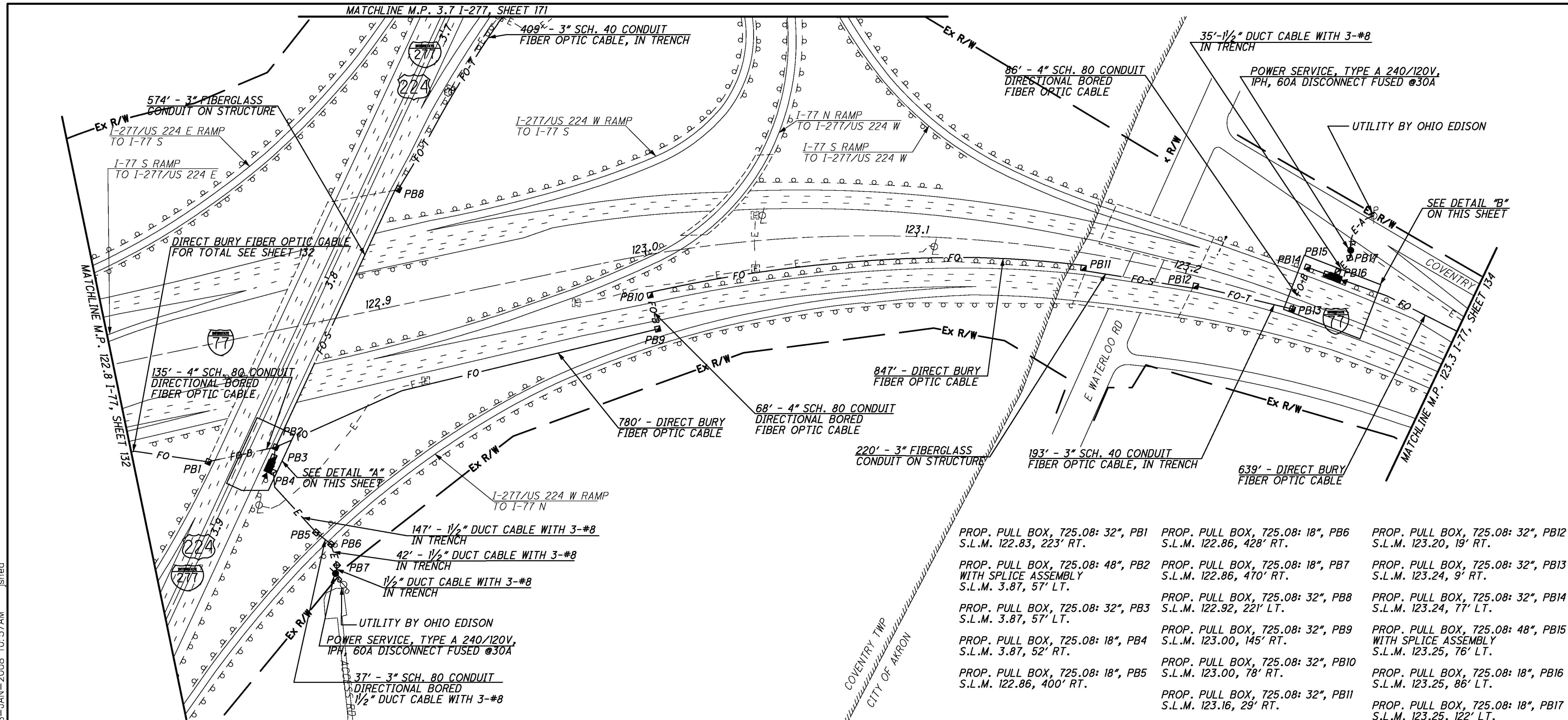


CALCULATED STS CHECKED JDG

I-77 AT I-277 (MP 122.8 TO MP 123.3)  
COVENTRY TOWNSHIP, SUMMIT COUNTY

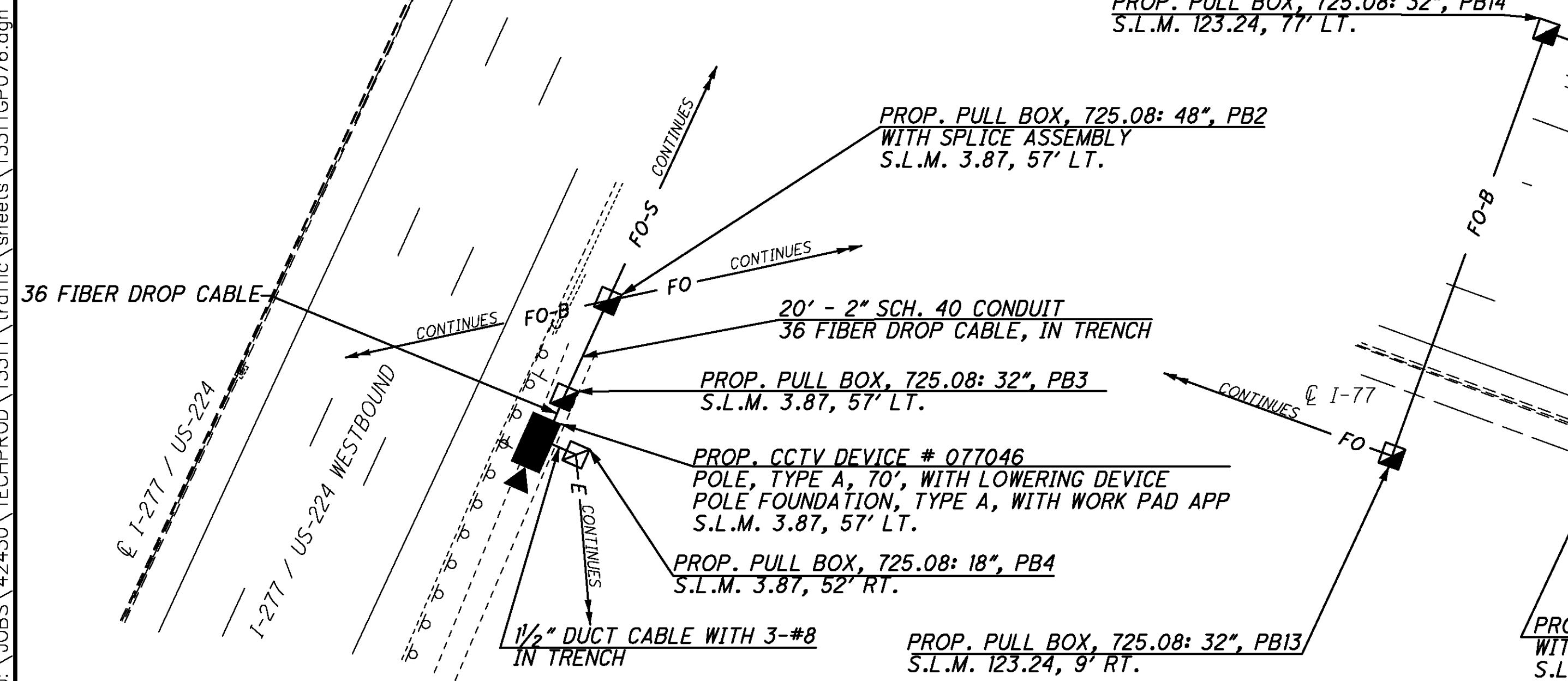
STA-SUM ITS

133  
390

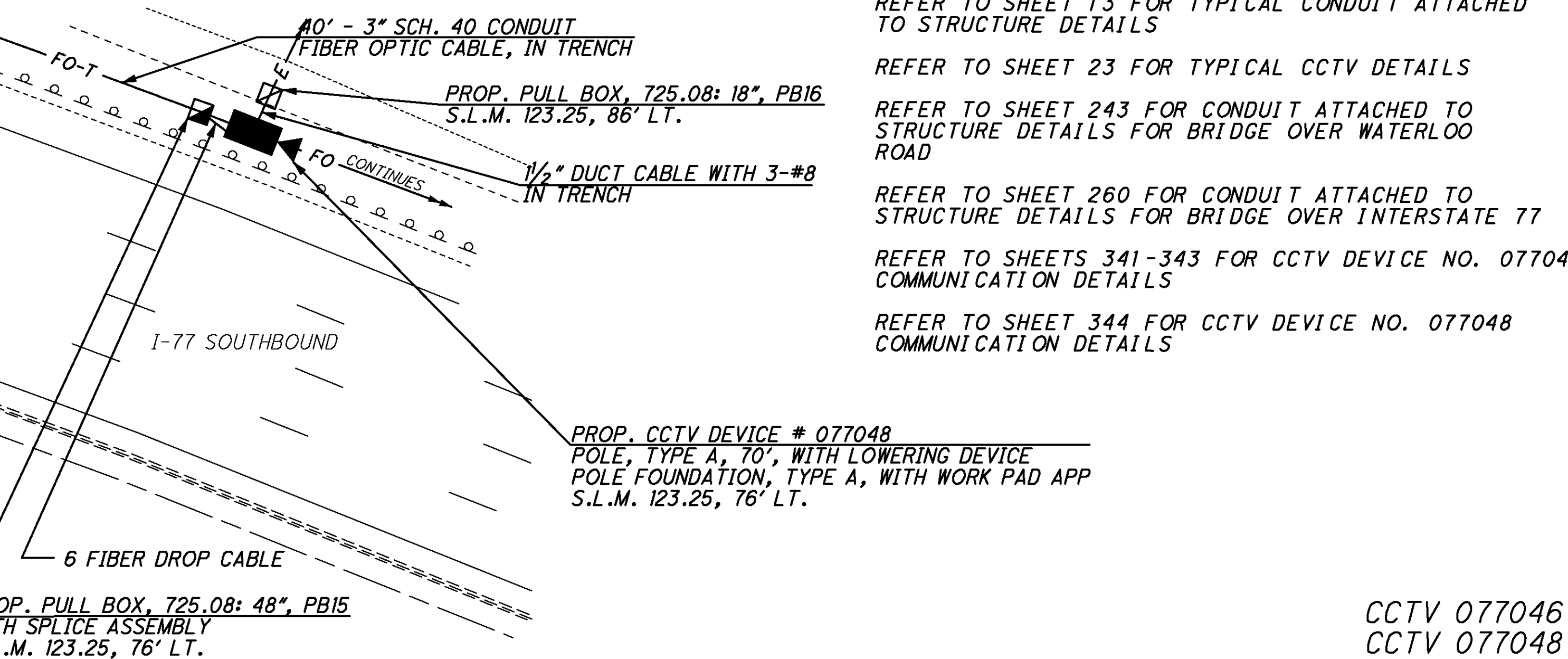


- |  |   |   |
|--|---|---|
| PROP. PULL BOX, 725.08: 32", PB1<br>S.L.M. 122.83, 223' RT.                      | PROP. PULL BOX, 725.08: 18", PB6<br>S.L.M. 122.86, 428' RT. | PROP. PULL BOX, 725.08: 32", PB12<br>S.L.M. 123.20, 19' RT.                         |
| PROP. PULL BOX, 725.08: 48", PB2<br>WITH SPLICE ASSEMBLY<br>S.L.M. 3.87, 57' LT. | PROP. PULL BOX, 725.08: 18", PB7<br>S.L.M. 122.86, 470' RT. | PROP. PULL BOX, 725.08: 32", PB13<br>S.L.M. 123.24, 9' RT.                          |
| PROP. PULL BOX, 725.08: 32", PB3<br>S.L.M. 3.87, 57' LT.                         | PROP. PULL BOX, 725.08: 32", PB8<br>S.L.M. 122.92, 221' LT. | PROP. PULL BOX, 725.08: 32", PB14<br>S.L.M. 123.24, 77' LT.                         |
| PROP. PULL BOX, 725.08: 18", PB4<br>S.L.M. 3.87, 52' RT.                         | PROP. PULL BOX, 725.08: 32", PB9<br>S.L.M. 123.00, 145' RT. | PROP. PULL BOX, 725.08: 48", PB15<br>WITH SPLICE ASSEMBLY<br>S.L.M. 123.25, 76' LT. |
| PROP. PULL BOX, 725.08: 18", PB5<br>S.L.M. 122.86, 400' RT.                      | PROP. PULL BOX, 725.08: 32", PB10<br>S.L.M. 123.00, 78' RT. | PROP. PULL BOX, 725.08: 18", PB16<br>S.L.M. 123.25, 86' LT.                         |
|  | PROP. PULL BOX, 725.08: 32", PB11<br>S.L.M. 123.16, 29' RT. | PROP. PULL BOX, 725.08: 18", PB17<br>S.L.M. 123.25, 122' LT.                        |

DETAIL "A" - 20 SCALE



DETAIL "B" - 20 SCALE



REFER TO SHEET 13 FOR TYPICAL CONDUIT ATTACHED TO STRUCTURE DETAILS

REFER TO SHEET 23 FOR TYPICAL CCTV DETAILS

REFER TO SHEET 243 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR BRIDGE OVER WATERLOO ROAD

REFER TO SHEET 260 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR BRIDGE OVER INTERSTATE 77

REFER TO SHEETS 341-343 FOR CCTV DEVICE NO. 077046 COMMUNICATION DETAILS

REFER TO SHEET 344 FOR CCTV DEVICE NO. 077048 COMMUNICATION DETAILS

CCTV 077046  
CCTV 077048

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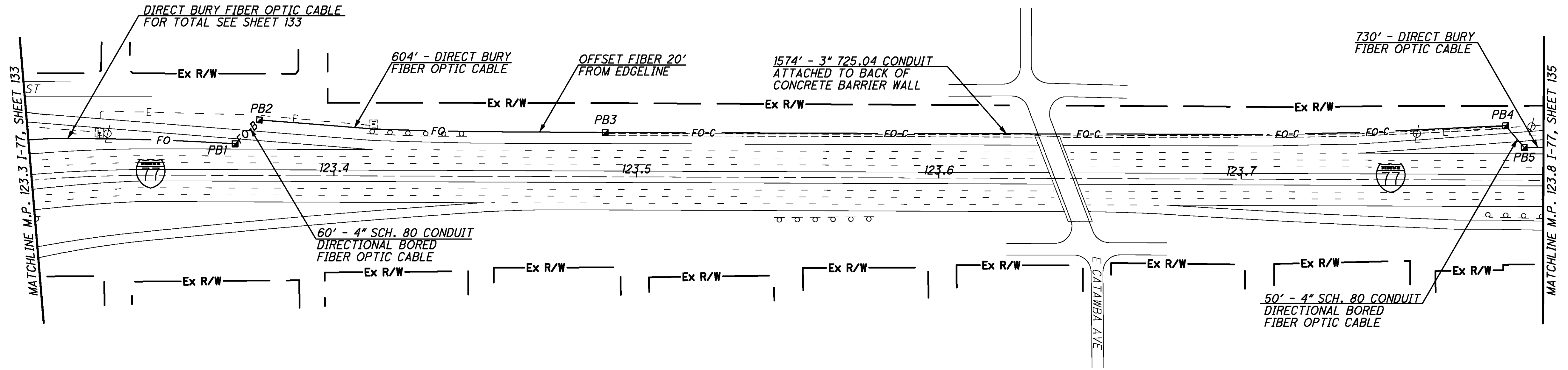
PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 123.37, 55' LT.

PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 123.37, 97' LT.

PROP. PULL BOX, 725.08: 32", PB3  
S.L.M. 123.49, 77' LT.

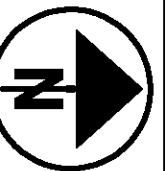
PROP. PULL BOX, 725.08: 32", PB4  
S.L.M. 123.79, 95' LT.

PROP. PULL BOX, 725.08: 32", PB5  
S.L.M. 123.79, 57' LT.



REFER TO SHEET 15 FOR GROUND TO CONCRETE  
WALL CONDUIT TRANSITION

NO FIELD DEVICE ON THIS SHEET



CALCULATED STS  
CHECKED JDG

I-77 AT CATAWBA AVE (MP 123.3 TO MP 123.8)  
CITY OF AKRON, SUMMIT COUNTY

STA-SUM ITS

134  
390



PROP. PULL BOX, 725.08: 48", PB1  
WITH SPLICE ASSEMBLY  
S.L.M. 123.94, 70' LT.

PROP. PULL BOX, 725.08: 18", PB2  
S.L.M. 123.93, 89' LT.

PROP. PULL BOX, 725.08: 32", PB3  
S.L.M. 123.95, 68' LT.

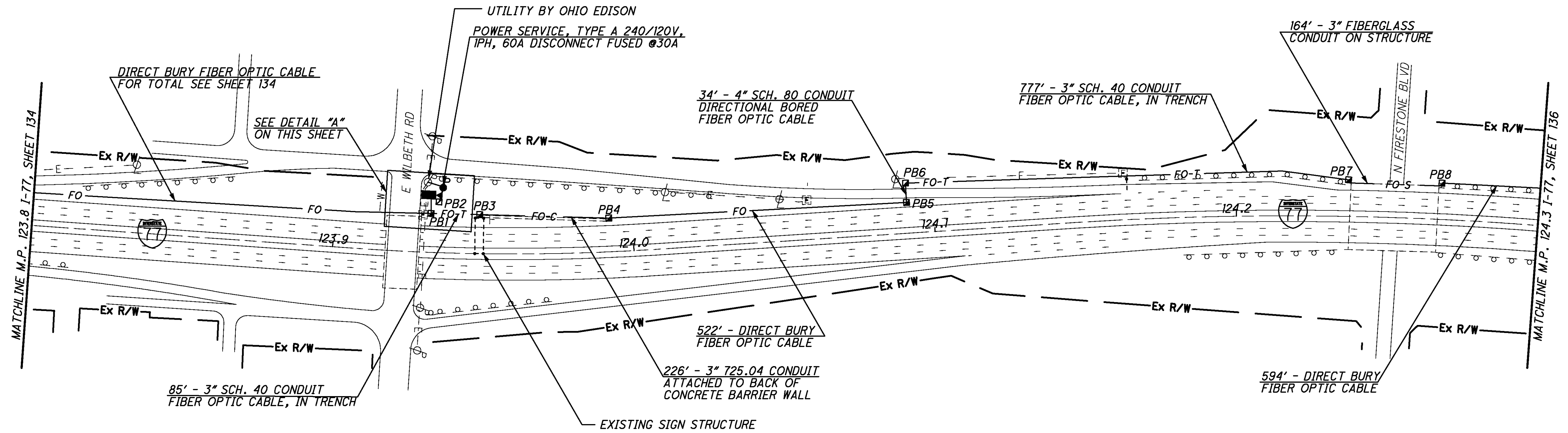
PROP. PULL BOX, 725.08: 32", PB4  
S.L.M. 123.99, 59' LT.

PROP. PULL BOX, 725.08: 32", PB5  
S.L.M. 124.09, 54' LT.

PROP. PULL BOX, 725.08: 32", PB6  
S.L.M. 124.09, 88' LT.

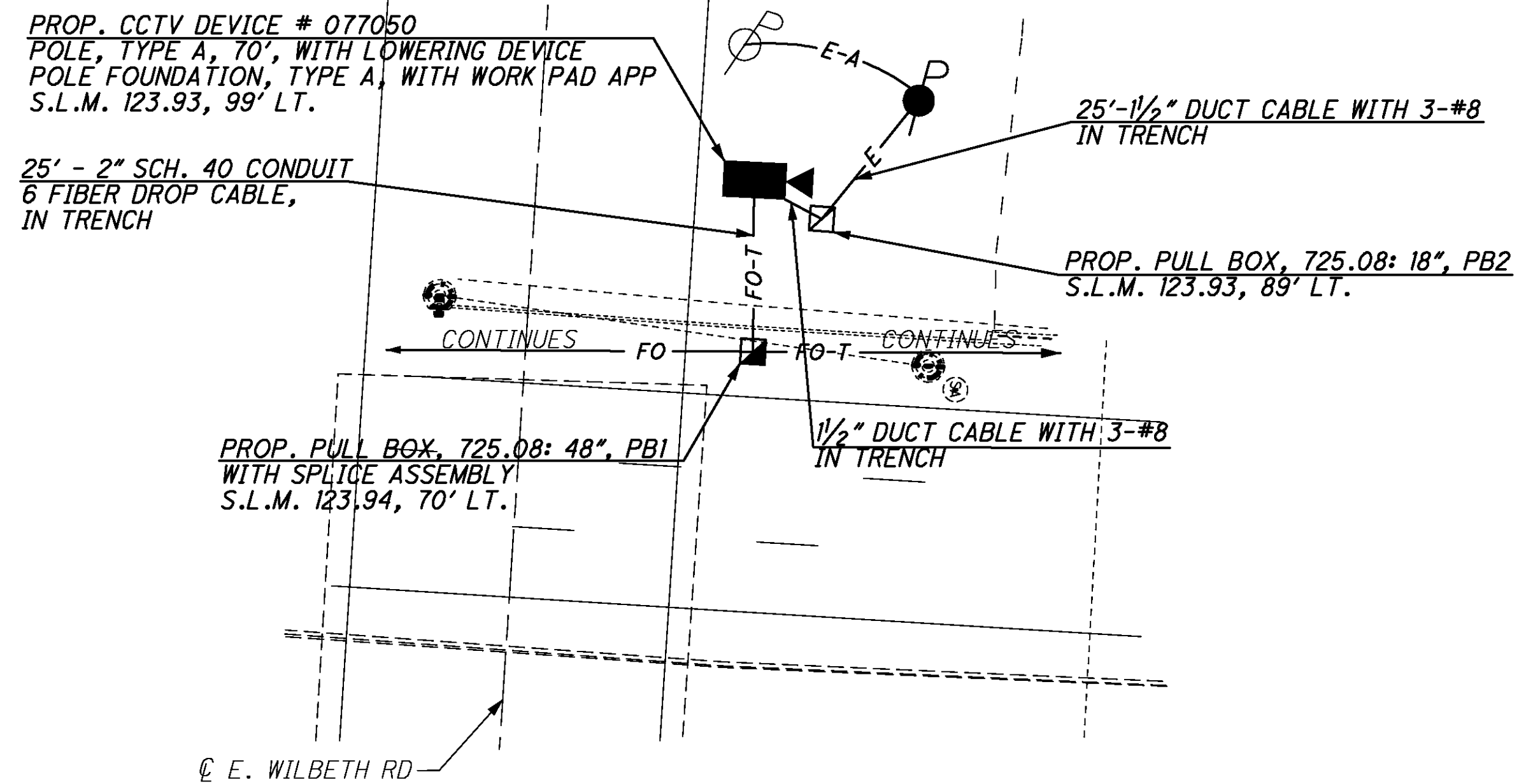
PROP. PULL BOX, 725.08: 32", PB7  
S.L.M. 124.24, 64' LT.

PROP. PULL BOX, 725.08: 32", PB8  
S.L.M. 124.27, 64' LT.



**DETAIL "A" - 20 SCALE**

\*077050 - NO SURVEY AVAILABLE AT THIS TIME



REFER TO SHEET 13 FOR TYPICAL CONDUIT ATTACHED TO STRUCTURE DETAILS

REFER TO SHEET 15 FOR GROUND TO CONCRETE WALL CONDUIT TRANSITION

REFER TO SHEET 23 FOR TYPICAL CCTV DETAILS

REFER TO SHEET 244 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR BRIDGE OVER FIRESTONE BLVD.

REFER TO SHEET 345 FOR COMMUNICATION DETAILS

0 50 100 200  
HORIZONTAL SCALE IN FEET

CALCULATED STS  
CHECKED JDG

**I-77 AT WILBETH RD (MP 123.8 TO MP 124.3)  
CITY OF AKRON, SUMMIT COUNTY**

STA-SUM ITS

135  
390

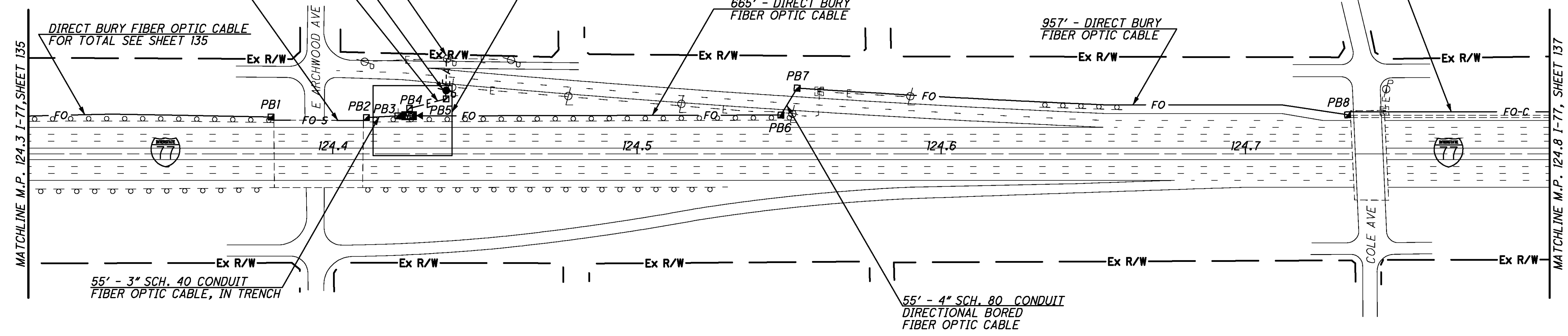
J:\JOBS\42430\TECHPROD\13311\traffic\sheet\13311GP078.dgn 06-DEC-2007 3:54PM Sebrown



UTILITY BY OHIO EDISON  
 POWER SERVICE, TYPE A 240/120V,  
 TPH, 60A DISCONNECT FUSED @30A  
 66'-1/2" DUCT CABLE WITH 3-#8  
 IN TRENCH

165' - 3" FIBERGLASS  
 CONDUIT ON STRUCTURE

DIRECT BURY FIBER OPTIC CABLE  
 FOR TOTAL SEE SHEET 135



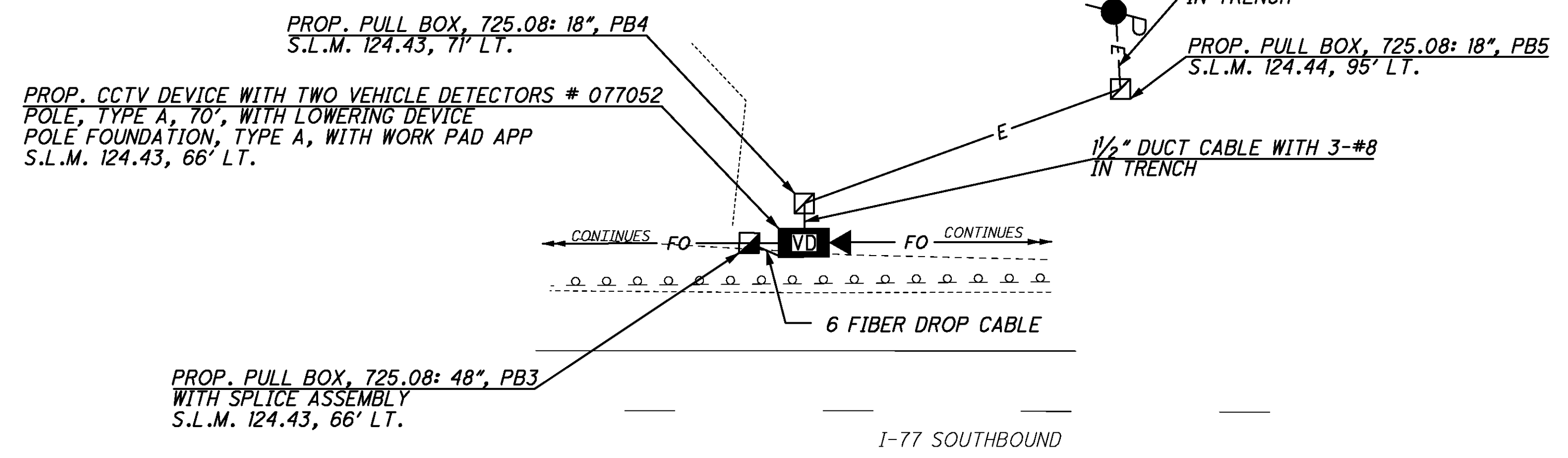
PROP. PULL BOX, 725.08: 32", PB1  
 S.L.M. 124.38, 64' LT.  
 PROP. PULL BOX, 725.08: 18", PB5  
 S.L.M. 124.44, 95' LT.  
 PROP. PULL BOX, 725.08: 32", PB2  
 S.L.M. 124.41, 64' LT.  
 PROP. PULL BOX, 725.08: 32", PB6  
 S.L.M. 124.55, 67' LT.  
 PROP. PULL BOX, 725.08: 48", PB3  
 WITH SPLICE ASSEMBLY  
 S.L.M. 124.43, 66' LT.  
 PROP. PULL BOX, 725.08: 32", PB7  
 S.L.M. 124.55, 114' LT.  
 PROP. PULL BOX, 725.08: 18", PB4  
 S.L.M. 124.43, 71' LT.  
 PROP. PULL BOX, 725.08: 32", PB8  
 S.L.M. 124.73, 68' LT.

1100' - 3" 725.04 CONDUIT  
 ATTACHED TO BACK OF  
 CONCRETE BARRIER WALL

55' - 3" SCH. 40 CONDUIT  
 FIBER OPTIC CABLE, IN TRENCH

55' - 4" SCH. 80 CONDUIT  
 DIRECTIONAL BORED  
 FIBER OPTIC CABLE

DETAIL "A" - 20 SCALE



REFER TO SHEET 13 FOR TYPICAL CONDUIT ATTACHED  
 TO STRUCTURE DETAILS  
 REFER TO SHEET 15 FOR GROUND TO CONCRETE  
 WALL CONDUIT TRANSITION  
 REFER TO SHEET 24 FOR TYPICAL CCTV WITH TWO  
 VEHICLE DETECTORS DETAILS  
 REFER TO SHEET 245 FOR CONDUIT ATTACHED TO  
 STRUCTURE DETAILS FOR BRIDGE OVER ARCHWOOD  
 AVENUE  
 REFER TO SHEET 346 FOR COMMUNICATION DETAILS

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I-77 AT COLE AVE (MP 124.3 TO MP 124.8)  
 CITY OF AKRON, SUMMIT COUNTY

STA-SUM ITS

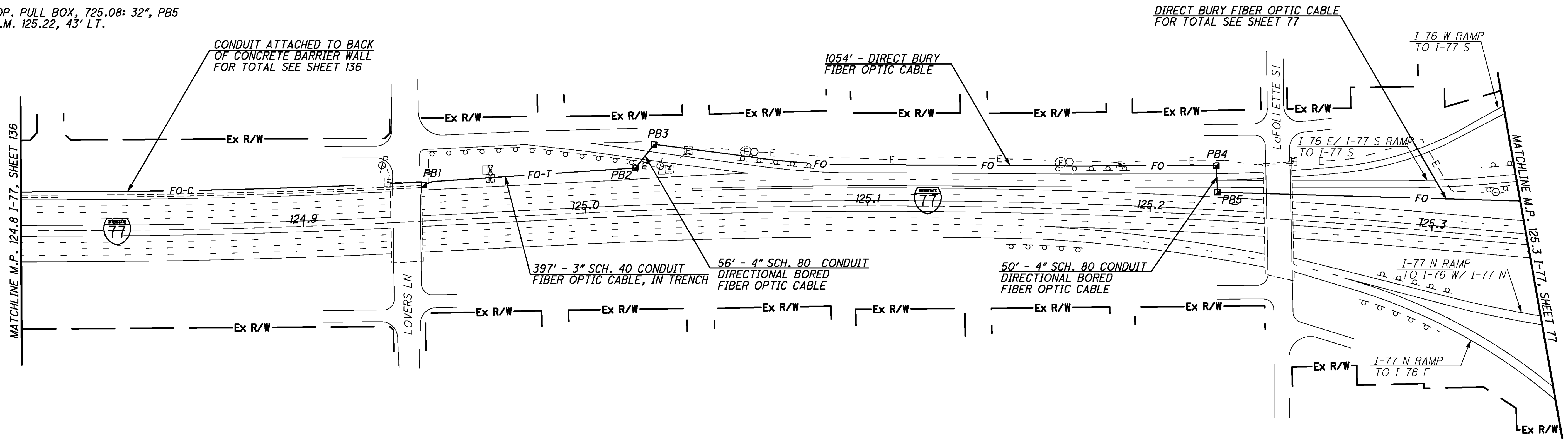
PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 124.94, 68' LT.

PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 125.02, 80' LT.

PROP. PULL BOX, 725.08: 32", PB3  
S.L.M. 125.02, 123' LT.

PROP. PULL BOX, 725.08: 32", PB4  
S.L.M. 125.22, 93' LT.

PROP. PULL BOX, 725.08: 32", PB5  
S.L.M. 125.22, 43' LT.



REFER TO SHEET 15 FOR GROUND TO CONCRETE WALL CONDUIT TRANSITION

NO FIELD DEVICE ON THIS SHEET



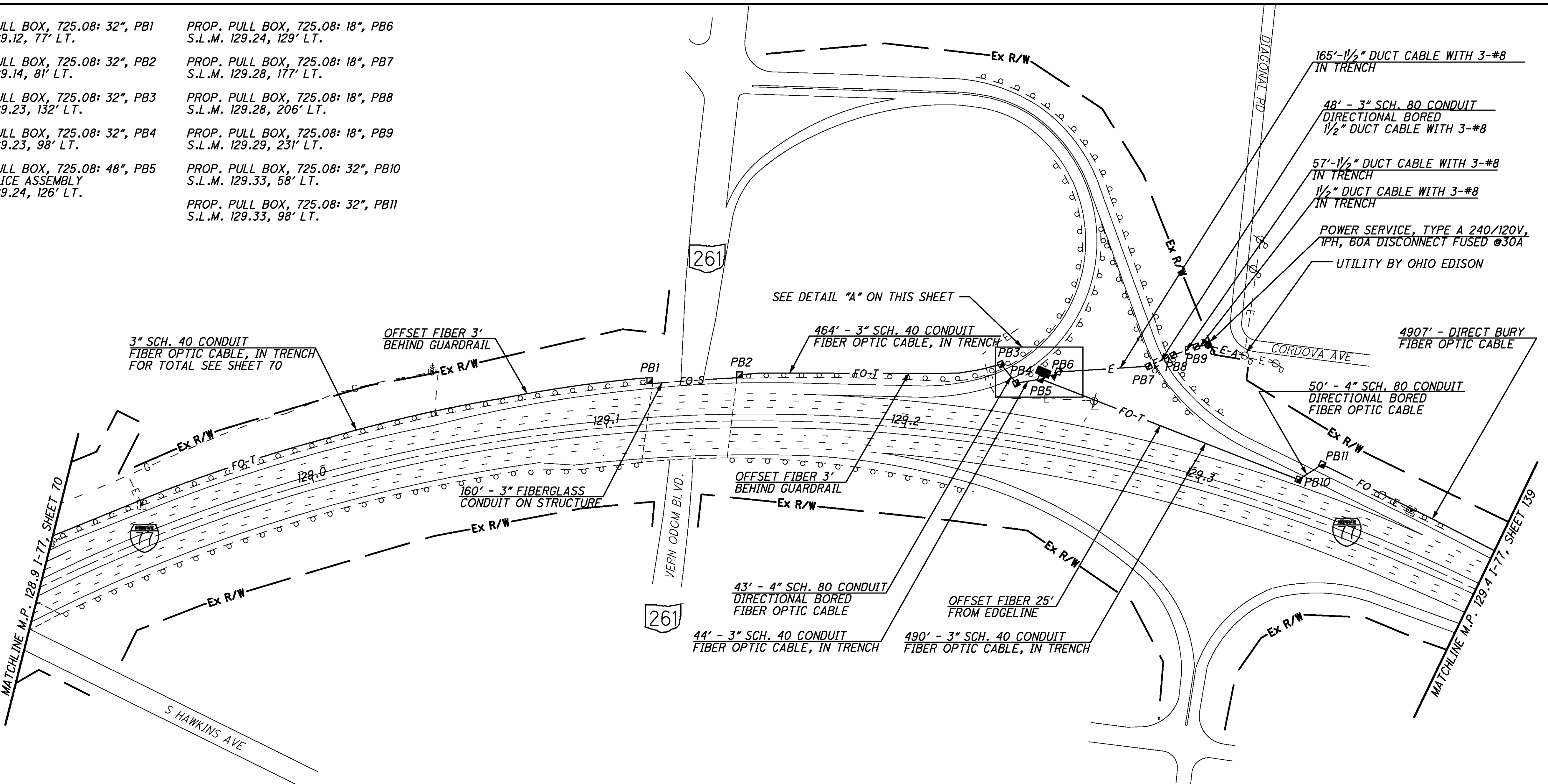
CALCULATED STS  
CHECKED JDG

I-77 AT LOVERS LN (MP 124.8 TO MP 125.3)  
CITY OF AKRON, SUMMIT COUNTY

STA - SUM ITS

137  
390

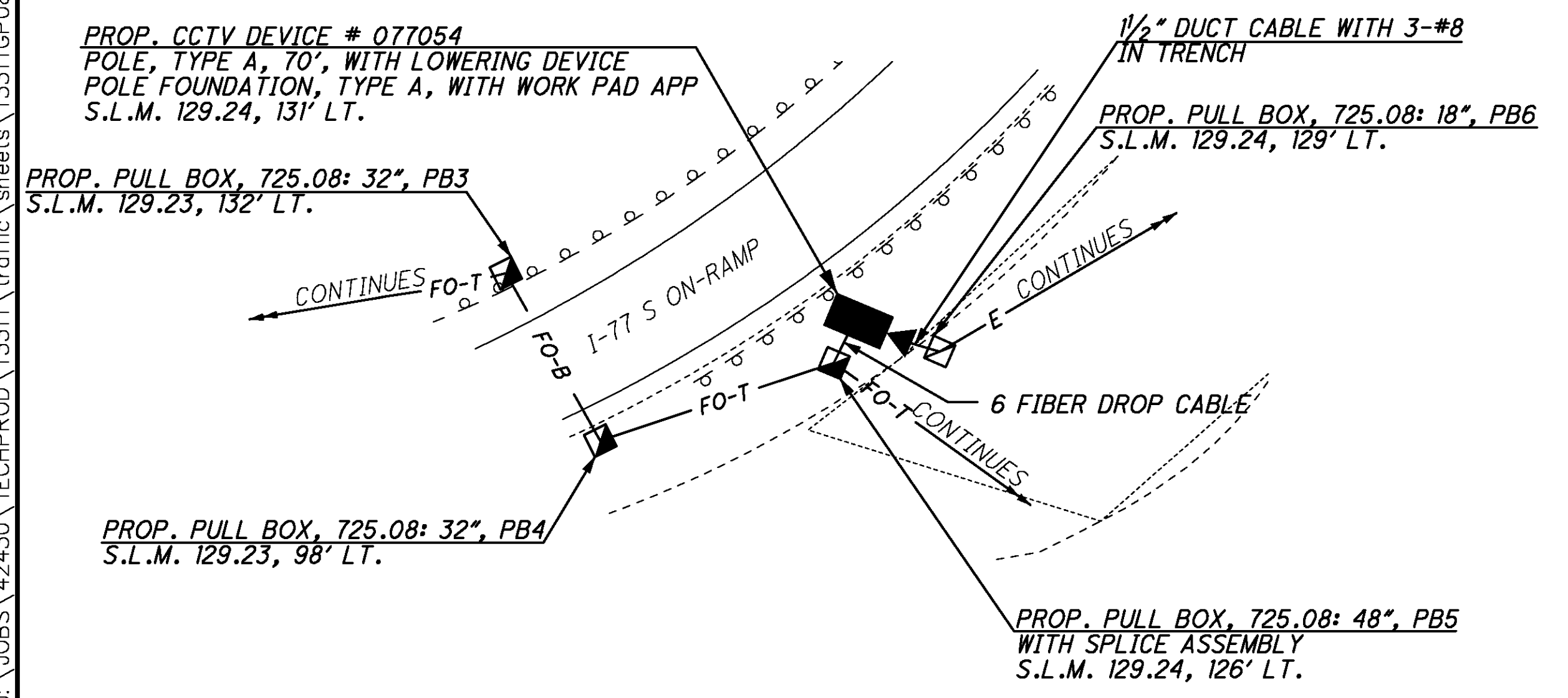
- PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 129.12, 77' LT.
- PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 129.14, 81' LT.
- PROP. PULL BOX, 725.08: 32", PB3  
S.L.M. 129.23, 132' LT.
- PROP. PULL BOX, 725.08: 32", PB4  
S.L.M. 129.23, 98' LT.
- PROP. PULL BOX, 725.08: 48", PB5  
WITH SPLICE ASSEMBLY  
S.L.M. 129.24, 126' LT.
- PROP. PULL BOX, 725.08: 18", PB6  
S.L.M. 129.24, 129' LT.
- PROP. PULL BOX, 725.08: 18", PB7  
S.L.M. 129.28, 177' LT.
- PROP. PULL BOX, 725.08: 18", PB8  
S.L.M. 129.28, 206' LT.
- PROP. PULL BOX, 725.08: 18", PB9  
S.L.M. 129.29, 231' LT.
- PROP. PULL BOX, 725.08: 32", PB10  
S.L.M. 129.33, 58' LT.
- PROP. PULL BOX, 725.08: 32", PB11  
S.L.M. 129.33, 98' LT.



HORIZONTAL SCALE IN FEET

CALCULATED STS CHECKED JDG  
 I-77 AT SR-261 (MP 128.9 TO MP 129.4)  
 CITY OF AKRON, SUMMIT COUNTY

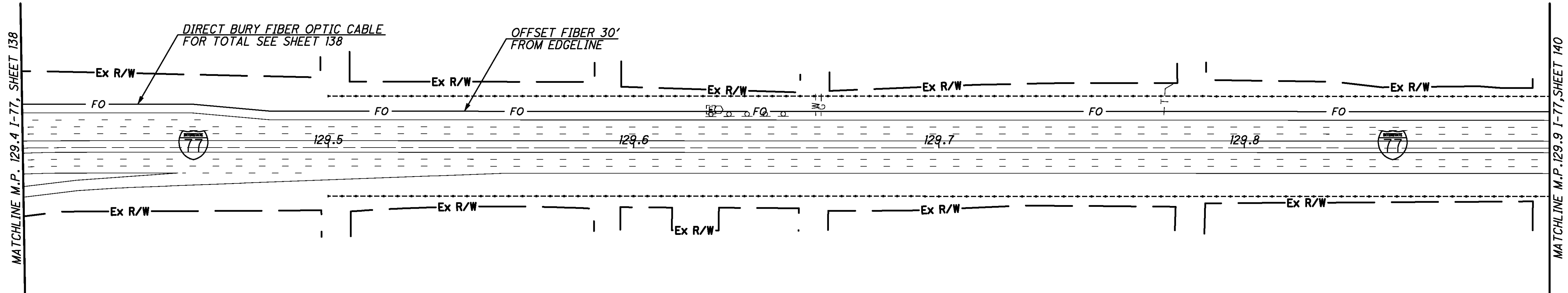
DETAIL "A" - 20 SCALE



REFER TO SHEET 13 FOR TYPICAL CONDUIT ATTACHED TO STRUCTURE DETAILS  
 REFER TO SHEET 23 FOR TYPICAL CCTV DETAILS  
 REFER TO SHEET 247 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR BRIDGE OVER VEMON ODOM BLVD.  
 REFER TO SHEET 347 FOR COMMUNICATION DETAILS

STA-SUM ITS

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NO FIELD DEVICE ON THIS SHEET

CALCULATED STS  
CHECKED JDG

0 50 100 200  
HORIZONTAL SCALE IN FEET

N

I-77 AT STONER ST (MP 129.4 TO MP 129.9)  
CITY OF AKRON, SUMMIT COUNTY

STA-SUM ITS

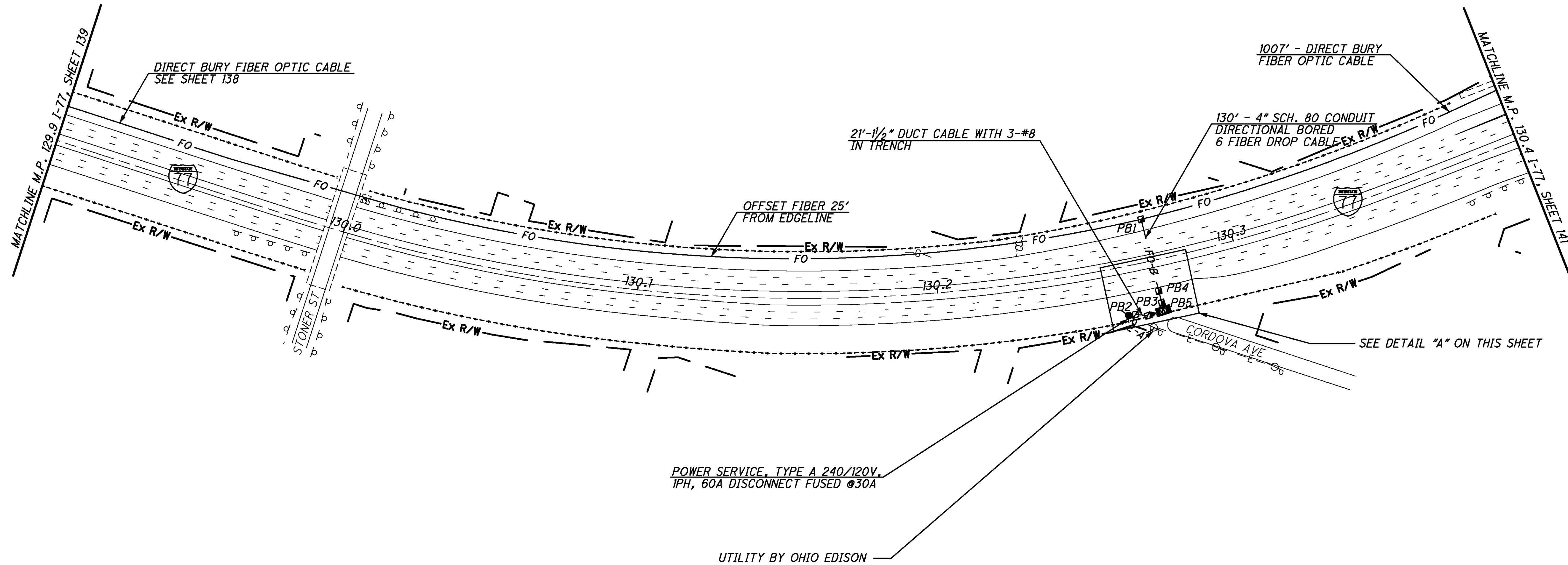
PROP. PULL BOX, 725.08: 48", PB1  
WITH SPLICE ASSEMBLY  
S.L.M. 130.27, 75' LT.

PROP. PULL BOX, 725.08: 18", PB2  
S.L.M. 130.26, 86' RT.

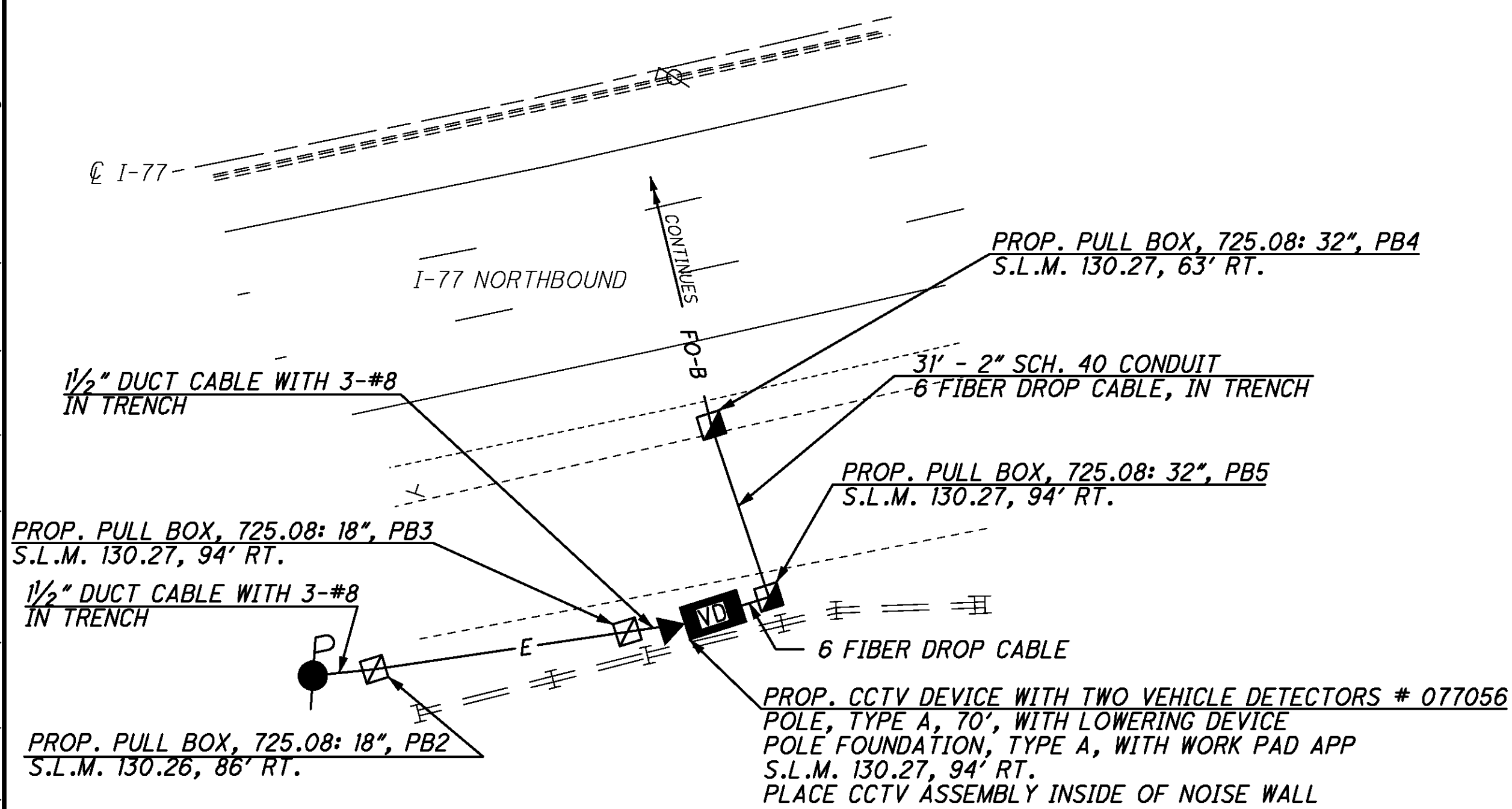
PROP. PULL BOX, 725.08: 18", PB3  
S.L.M. 130.27, 94' RT.

PROP. PULL BOX, 725.08: 32", PB4  
S.L.M. 130.27, 63' RT.

PROP. PULL BOX, 725.08: 32", PB5  
S.L.M. 130.27, 94' RT.



DETAIL "A" - 20 SCALE



REFER TO SHEET 24 FOR TYPICAL CCTV WITH TWO  
VEHICLE DETECTORS DETAILS  
REFER TO SHEET 348 FOR COMMUNICATION DETAILS



CALCULATED STS  
CHECKED JDG

I-77 AT STONER ST (MP 129.9 TO MP 130.4)  
CITY OF AKRON, SUMMIT COUNTY

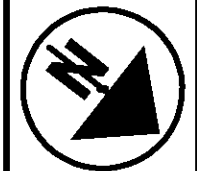
STA-SUM ITS

140  
390

CCTV 077056

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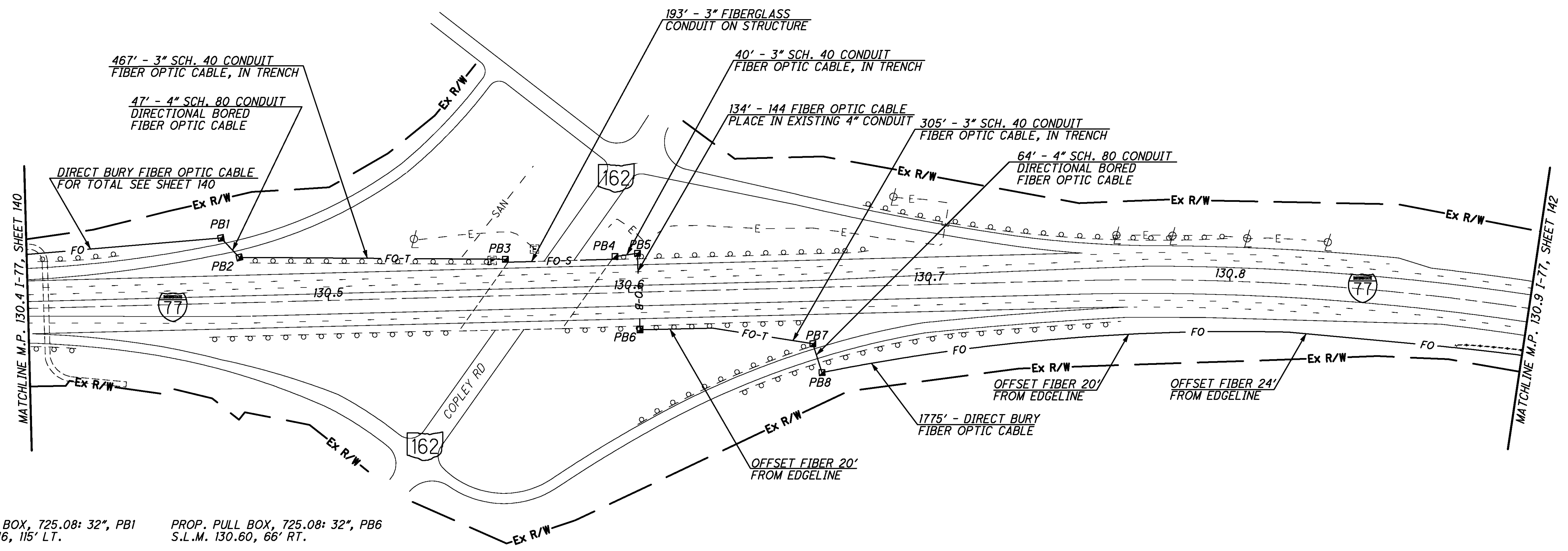


CALCULATED STS  
CHECKED JDG

I-77 AT SR-162 (MP 130.4 TO MP 130.9)  
CITY OF AKRON, SUMMIT COUNTY

STA-SUM ITS

141  
390



- PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 130.46, 115' LT.
- PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 130.47, 80' LT.
- PROP. PULL BOX, 725.08: 32", PB3  
S.L.M. 130.56, 64' LT.
- PROP. PULL BOX, 725.08: 32", PB4  
S.L.M. 130.59, 64' LT.
- PROP. PULL BOX, 725.08: 32", PB5  
S.L.M. 130.60, 68' LT.
- PROP. PULL BOX, 725.08: 32", PB6  
S.L.M. 130.60, 66' RT.
- PROP. PULL BOX, 725.08: 32", PB7  
S.L.M. 130.66, 98' RT.
- PROP. PULL BOX, 725.08: 32", PB8  
S.L.M. 130.66, 150' RT.

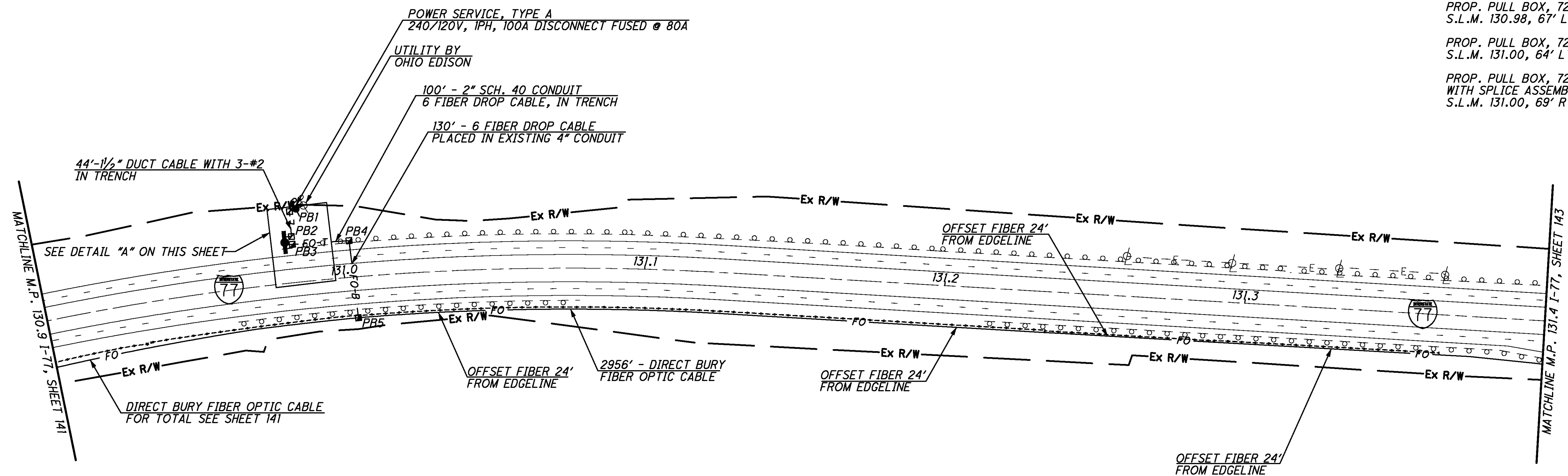
LATERAL CROSSINGS ARE EXISTING. REBAR HAS BEEN PLACED IN THE ENDS OF SCH. 80 CONDUIT TO ASSIST CONTRACTOR IN LOCATING PLACEMENT FOR PULLBOX.

REFER TO SHEET 13 FOR TYPICAL CONDUIT ATTACHED TO STRUCTURE DETAILS  
REFER TO SHEET 248 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR BRIDGE OVER COPLEY ROAD

NO FIELD DEVICE ON THIS SHEET

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- PROP. PULL BOX, 725.08: 18", PB1  
S.L.M. 130.98, 125' LT.
- PROP. PULL BOX, 725.08: 18", PB2  
S.L.M. 130.98, 77' LT.
- PROP. PULL BOX, 725.08: 32", PB3  
S.L.M. 130.98, 67' LT.
- PROP. PULL BOX, 725.08: 32", PB4  
S.L.M. 131.00, 64' LT.
- PROP. PULL BOX, 725.08: 48", PB5  
WITH SPLICE ASSEMBLY  
S.L.M. 131.00, 69' RT.

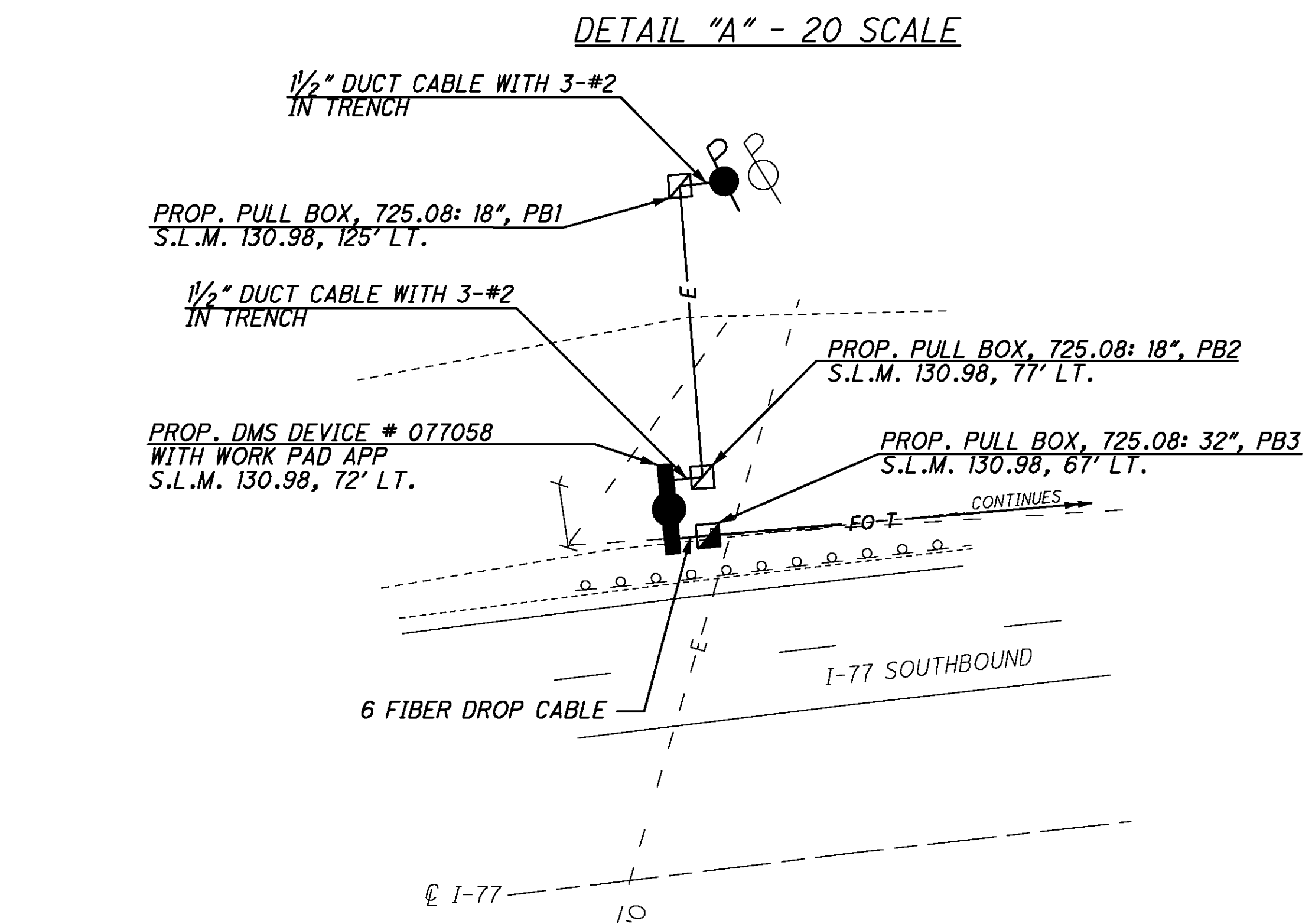
CALCULATED STS CHECKED JDG

HORIZONTAL SCALE IN FEET

I-77 AT SR-162 (MP 130.9 TO MP 131.4)  
CITY OF AKRON, SUMMIT COUNTY

STA-SUM ITS

142  
390



LATERAL CROSSINGS ARE EXISTING. REBAR HAS BEEN PLACED IN THE ENDS OF SCH. 80 CONDUIT TO ASSIST CONTRACTOR IN LOCATING PLACEMENT FOR PULLBOX.

REFER TO SHEET 25 FOR TYPICAL DMS DETAILS  
REFER TO SHEET 349 FOR COMMUNICATION DETAILS

DMS 077058

- PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 131.57, 112' RT.
- PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 131.57, 66' RT.
- PROP. PULL BOX, 725.08: 48", PB3  
WITH SPLICE ASSEMBLY  
S.L.M. 131.74, 68' RT.
- PROP. PULL BOX, 725.08: 32", PB4  
S.L.M. 131.76, 182' RT.
- PROP. PULL BOX, 725.08: 18", PB5  
S.L.M. 131.76, 187' RT.
- PROP. PULL BOX, 725.08: 18", PB6  
S.L.M. 131.75, 223' RT.
- PROP. PULL BOX, 725.08: 18", PB7  
S.L.M. 131.75, 273' RT.
- PROP. PULL BOX, 725.08: 18", PB8  
S.L.M. 131.74, 330' RT.
- PROP. PULL BOX, 725.08: 32", PB9  
S.L.M. 131.89, 62' RT.
- PROP. PULL BOX, 725.08: 32", PB10  
S.L.M. 131.89, 118' RT.

LATERAL CROSSINGS ARE EXISTING. REBAR HAS BEEN PLACED IN THE ENDS OF SCH. 80 CONDUIT TO ASSIST CONTRACTOR IN LOCATING PLACEMENT FOR PULLBOX.

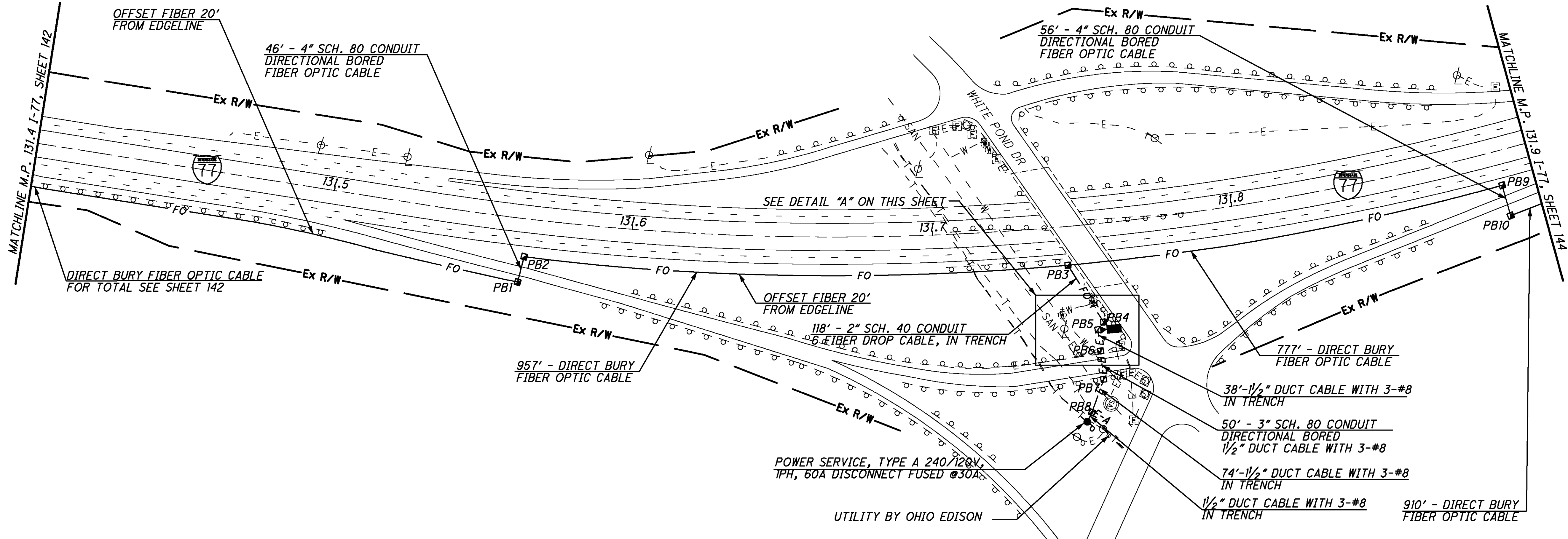


CALCULATED STS  
CHECKED JDG

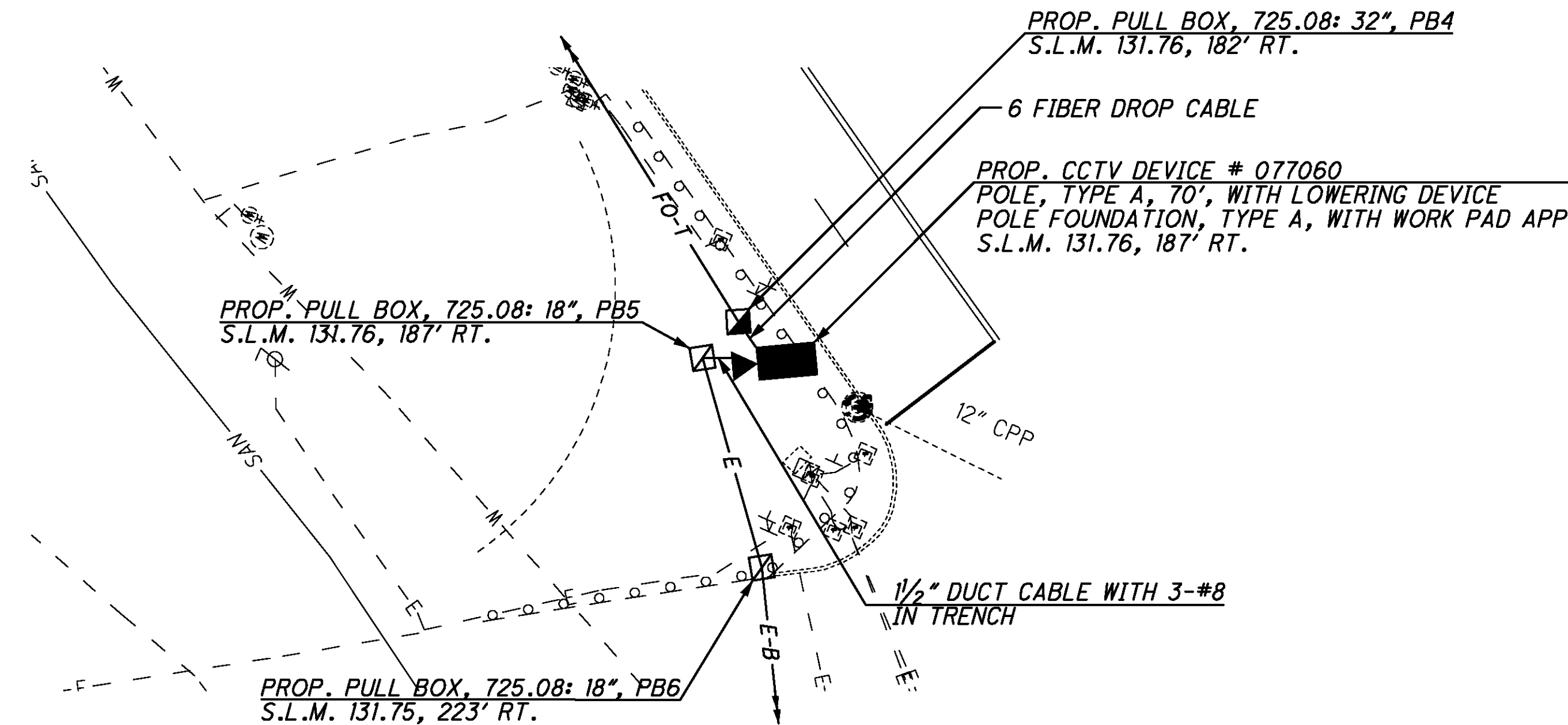
I-77 AT WHITE POND DR (MP 131.4 TO MP 131.9)  
CITY OF AKRON, SUMMIT COUNTY

STA-SUM ITS

143  
390



DETAIL "A" - 20 SCALE

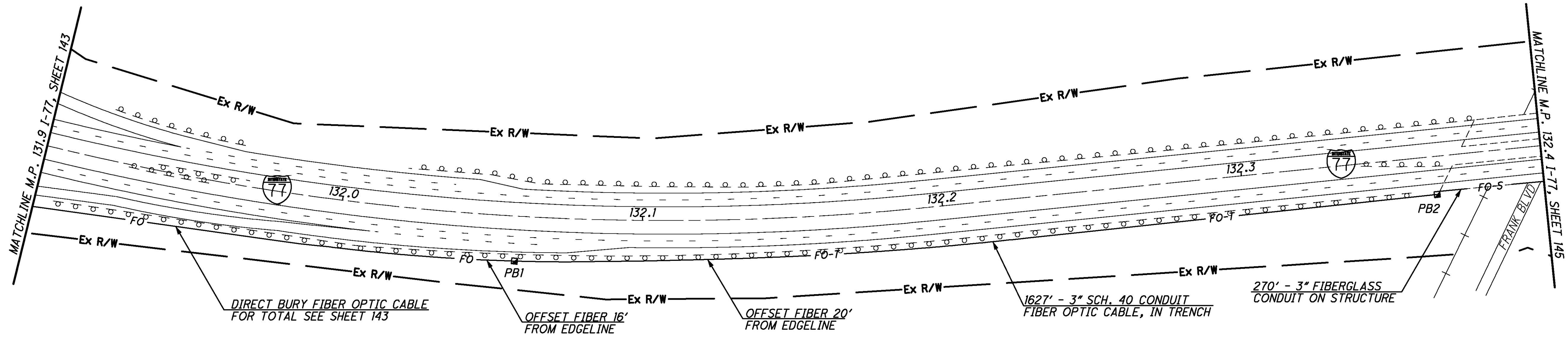


REFER TO SHEET 23 FOR TYPICAL CCTV DETAILS  
REFER TO SHEET 350 FOR COMMUNICATION DETAILS

CCTV 077060

PROP. PULL BOX, 725.08: 32", PB1  
 S.L.M. 132.06, 79' RT.

PROP. PULL BOX, 725.08: 32", PB2  
 S.L.M. 132.36, 67' RT.



DIRECT BURY FIBER OPTIC CABLE  
 FOR TOTAL SEE SHEET 143

OFFSET FIBER 16'  
 FROM EDGELINE

OFFSET FIBER 20'  
 FROM EDGELINE

1627' - 3" SCH. 40 CONDUIT  
 FIBER OPTIC CABLE, IN TRENCH

270' - 3" FIBERGLASS  
 CONDUIT ON STRUCTURE

LATERAL CROSSINGS ARE EXISTING. REBAR HAS BEEN  
 PLACED IN THE ENDS OF SCH. 80 CONDUIT TO ASSIST  
 CONTRACTOR IN LOCATING PLACEMENT FOR PULLBOX.

REFER TO SHEET 13 FOR TYPICAL CONDUIT ATTACHED  
 TO STRUCTURE DETAILS  
 REFER TO SHEET 249 FOR CONDUIT ATTACHED TO  
 STRUCTURE DETAILS FOR BRIDGE OVER FRANK ROAD

NO FIELD DEVICE ON THIS SHEET

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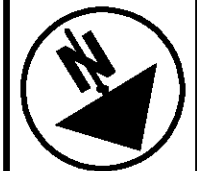
CALCULATED STS CHECKED JDG

0 50 100 200  
 HORIZONTAL SCALE IN FEET

I-77 AT WHITE POND DR (MP 131.9 TO 132.4)  
 CITY OF AKRON, SUMMIT COUNTY

STA-SUM ITS

144  
 390



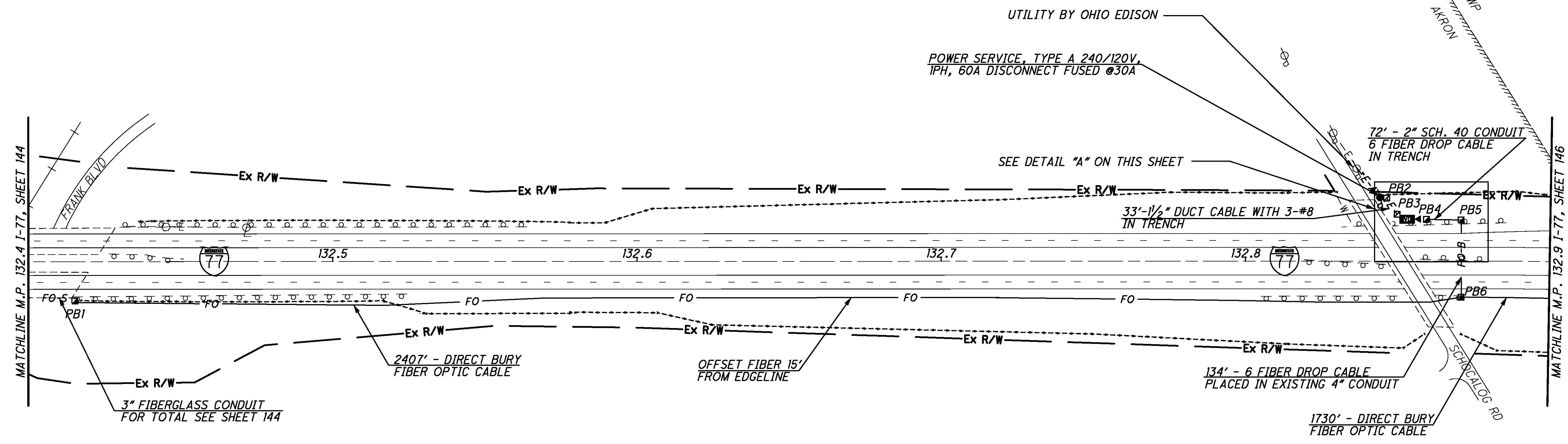
CALCULATED STS  
CHECKED JDG

I-77 AT SCHOCALOG RD (MP 132.4 TO MP 132.9)  
CITY OF AKRON, SUMMIT COUNTY

STA-SUM ITS

145  
390

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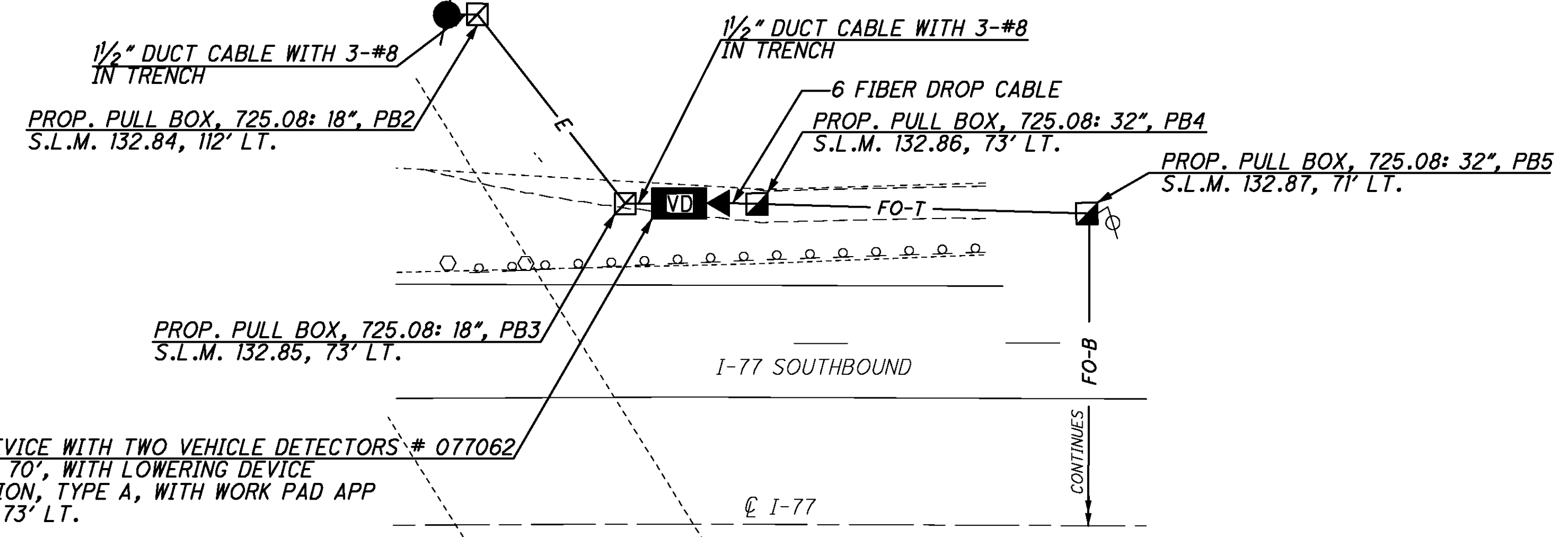


- PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 132.42, 68' RT.
- PROP. PULL BOX, 725.08: 18", PB2  
S.L.M. 132.85, 110' LT.
- PROP. PULL BOX, 725.08: 18", PB3  
S.L.M. 132.85, 73' LT.
- PROP. PULL BOX, 725.08: 32", PB4  
S.L.M. 132.86, 73' LT.
- PROP. PULL BOX, 725.08: 32", PB5  
S.L.M. 132.87, 71' LT.
- PROP. PULL BOX, 725.08: 48", PB6  
WITH SPLICE ASSEMBLY  
S.L.M. 132.87, 63' RT.

LATERAL CROSSINGS ARE EXISTING. REBAR HAS BEEN PLACED IN THE ENDS OF SCH. 80 CONDUIT TO ASSIST CONTRACTOR IN LOCATING PLACEMENT FOR PULLBOX.

- REFER TO SHEET 13 FOR TYPICAL CONDUIT ATTACHED TO STRUCTURE DETAILS
- REFER TO SHEET 24 FOR TYPICAL CCTV WITH TWO VEHICLE DETECTORS DETAILS
- REFER TO SHEET 351 FOR COMMUNICATION DETAILS

DETAIL "A" - 20 SCALE



PROP. CCTV DEVICE WITH TWO VEHICLE DETECTORS # 077062  
POLE, TYPE A, 70', WITH LOWERING DEVICE  
POLE FOUNDATION, TYPE A, WITH WORK PAD APP  
S.L.M. 132.85, 73' LT.

CCTV 077062



PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 133.20, 126' RT.

PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 133.20, 65' RT.



CALCULATED STS  
CHECKED JDG

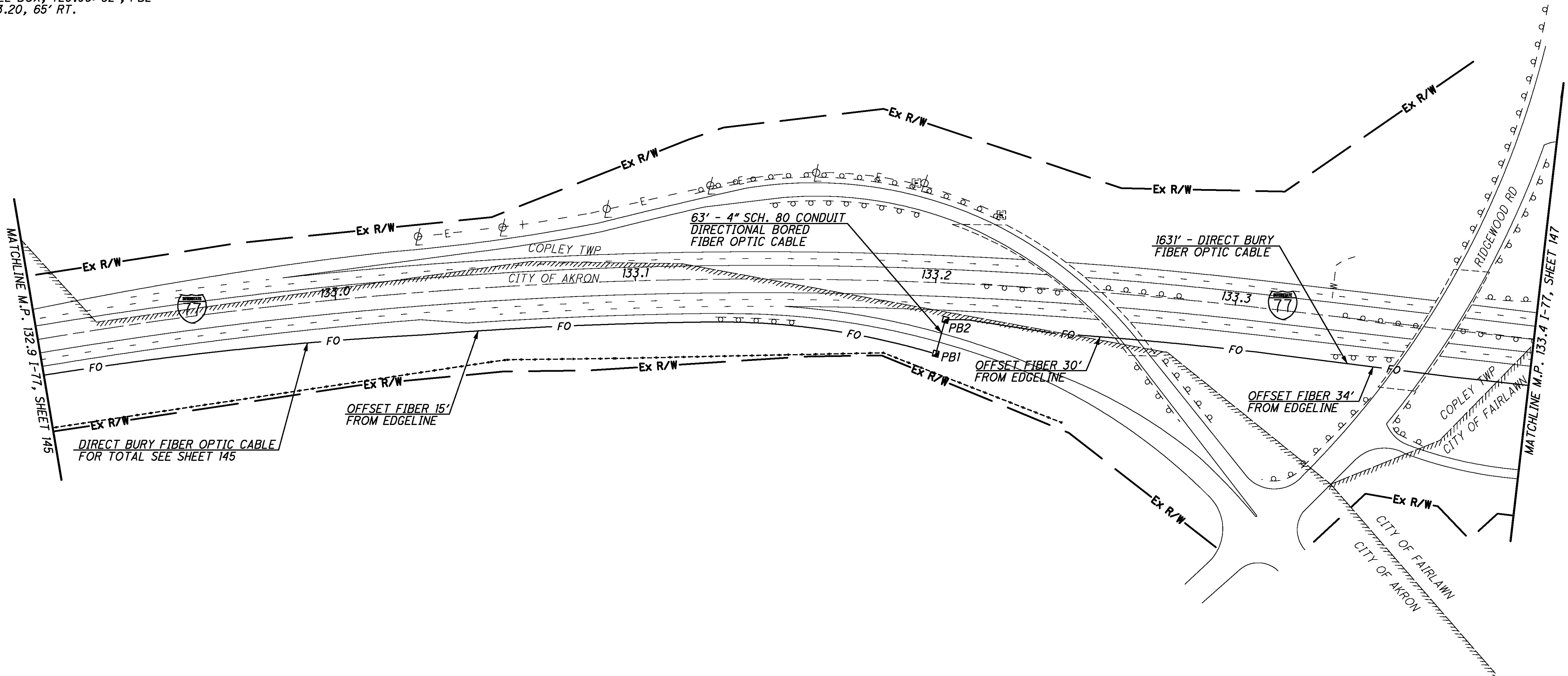
I-77 AT RIDGEWOOD RD (MP 132.9 TO MP 133.4)

CITY OF AKRON, SUMMIT COUNTY

STA - SUM ITS

146  
390

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LATERAL CROSSINGS ARE EXISTING. REBAR HAS BEEN PLACED IN THE ENDS OF SCH. 80 CONDUIT TO ASSIST CONTRACTOR IN LOCATING PLACEMENT FOR PULLBOX.

NO FIELD DEVICE ON THIS SHEET

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PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 133.51, 70' RT.

PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 133.51, 118' RT.

PROP. PULL BOX, 725.08: 18", PB3  
S.L.M. 133.53, 122' RT.

PROP. PULL BOX, 725.08: 18", PB4  
S.L.M. 133.62, 102' RT.

PROP. PULL BOX, 725.08: 48", PB5  
WITH SPLICE ASSEMBLY  
S.L.M. 133.71, 80' RT.

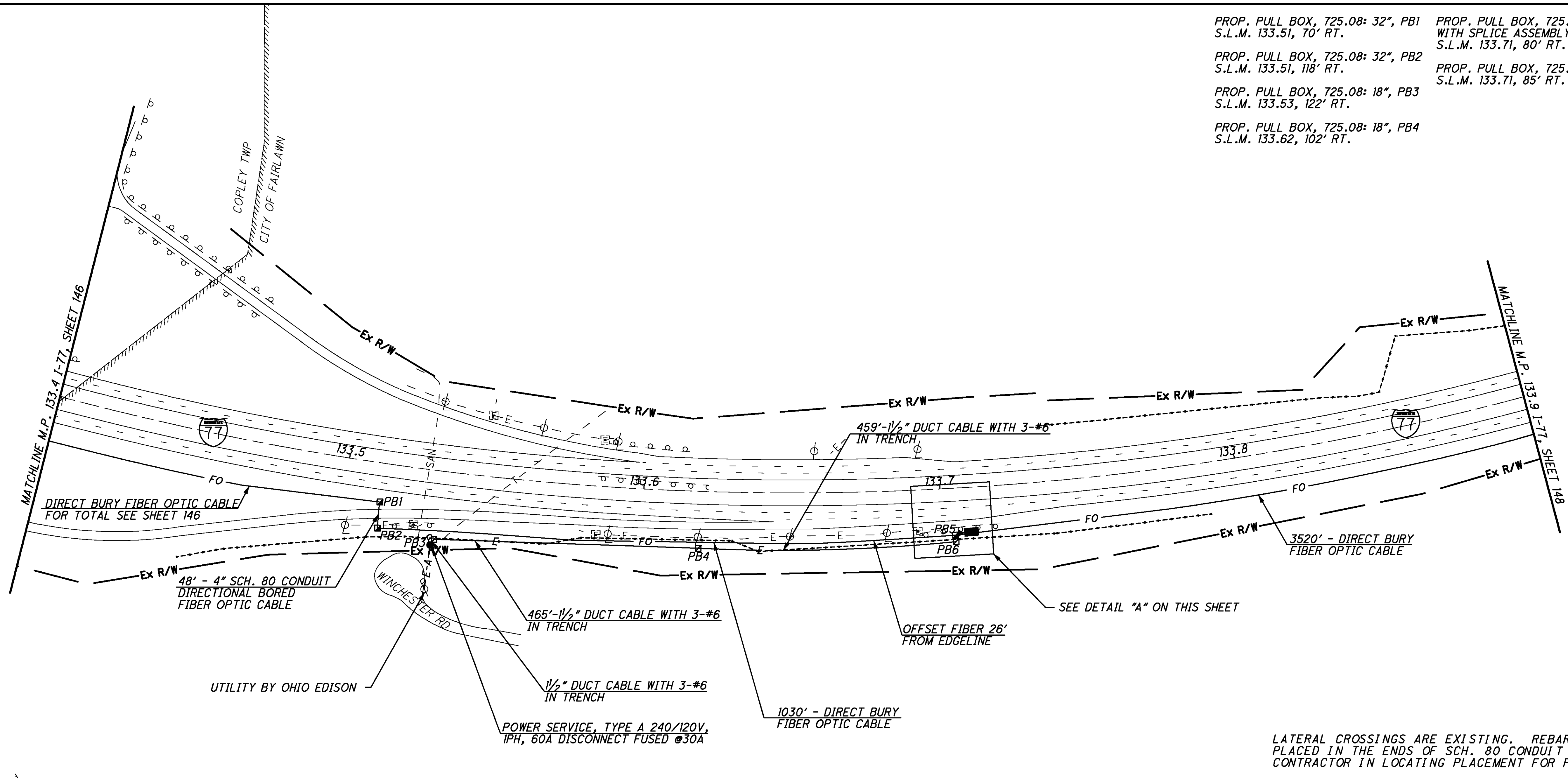
PROP. PULL BOX, 725.08: 18", PB6  
S.L.M. 133.71, 85' RT.

CALCULATED STS CHECKED JDG

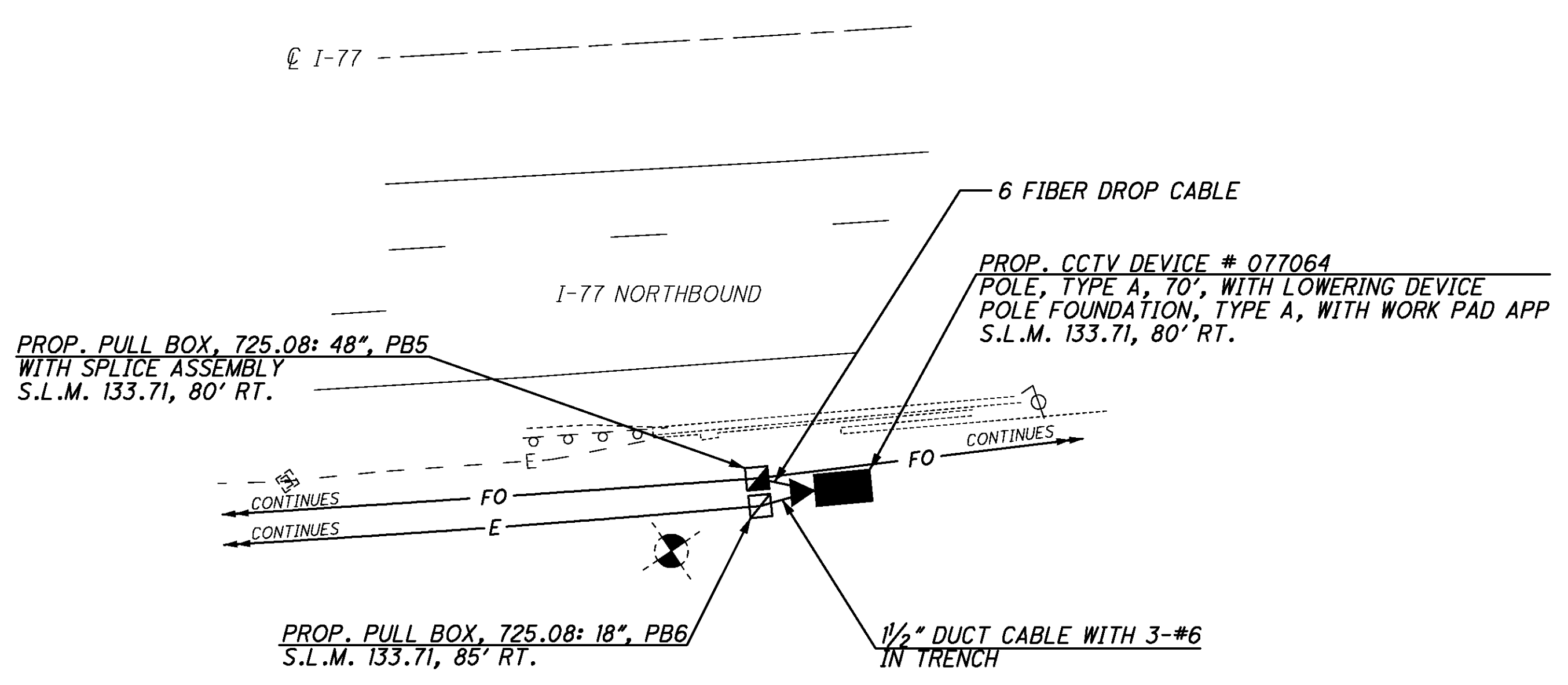
0 50 100 200  
HORIZONTAL SCALE IN FEET

I-77 AT RIDGEWOOD RD (MP 133.4 TO MP 133.9)  
CITY OF FAIRLAWN, SUMMIT COUNTY

STA-SUM ITS  
147  
390



DETAIL "A" - 20 SCALE



LATERAL CROSSINGS ARE EXISTING. REBAR HAS BEEN PLACED IN THE ENDS OF SCH. 80 CONDUIT TO ASSIST CONTRACTOR IN LOCATING PLACEMENT FOR PULLBOX.

REFER TO SHEET 23 FOR TYPICAL CCTV DETAILS  
REFER TO SHEET 352 FOR COMMUNICATION DETAILS

CCTV 077064

PROP. PULL BOX, 725.08: 18", PB1  
S.L.M. 134.36, 77' LT.

PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 134.36, 72' LT.

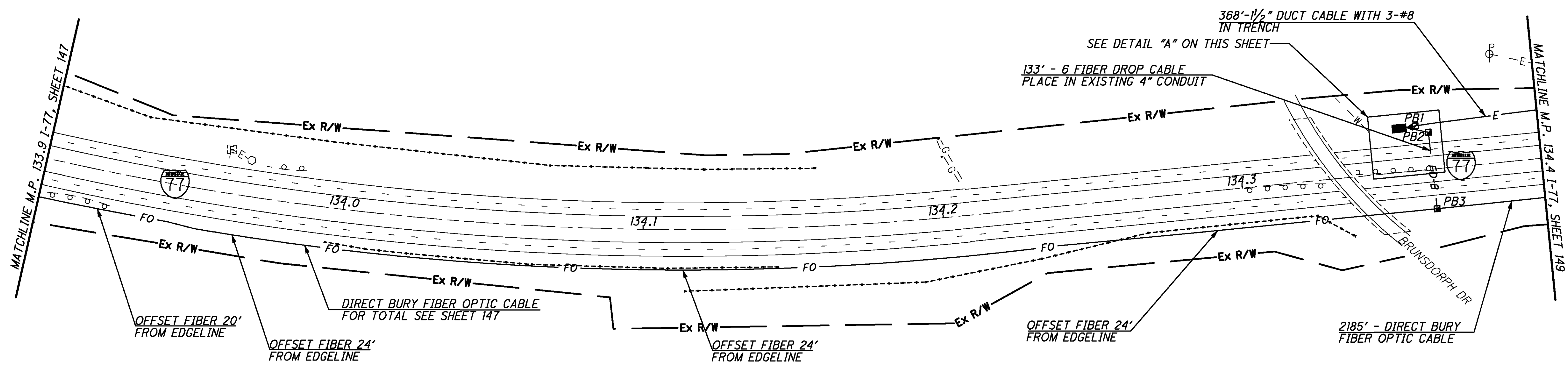
PROP. PULL BOX, 725.08: 48", PB3  
WITH SPLICE ASSEMBLY  
S.L.M. 134.36, 70' RT.

CALCULATED STS CHECKED JDG

0 50 100 200  
HORIZONTAL SCALE IN FEET

I-77 AT BRUNSDORPH DR (MP 133.9 TO MP 134.4)  
CITY OF FAIRLAWN, SUMMIT COUNTY

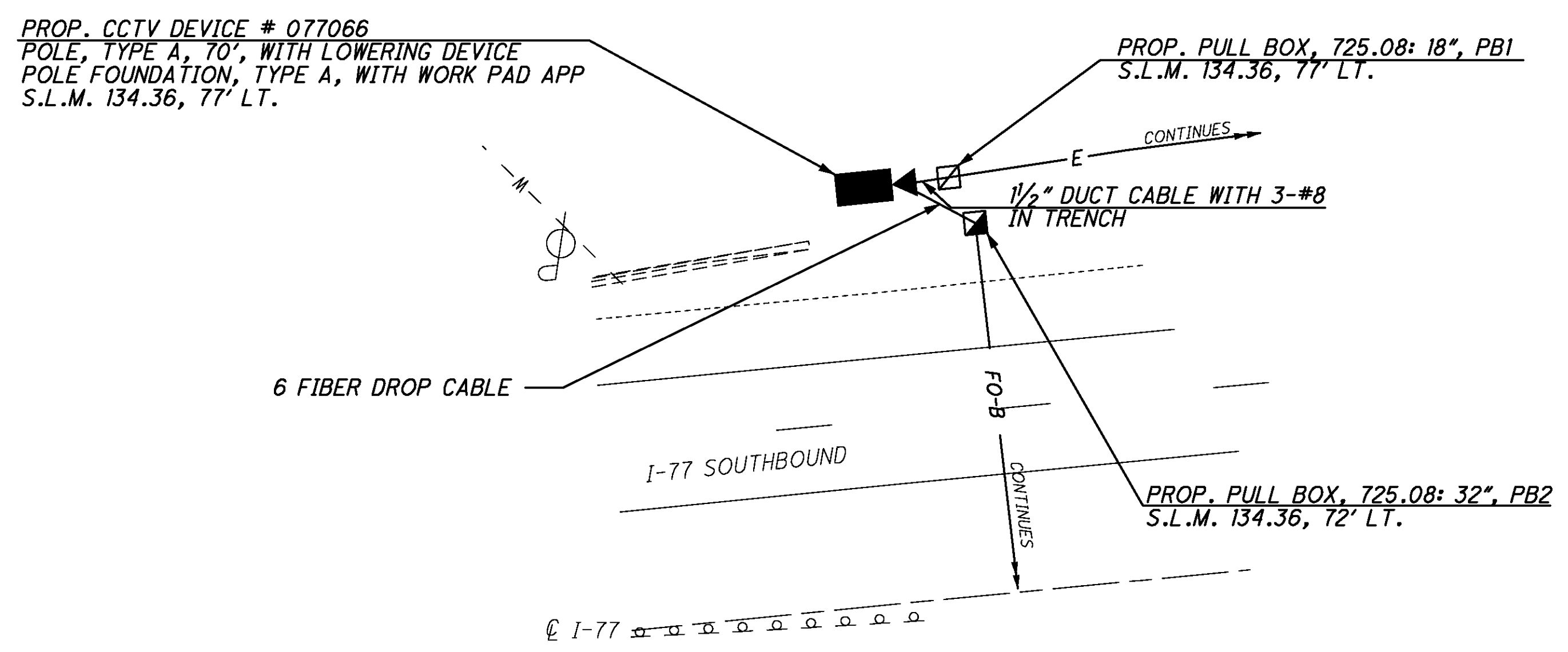
STA - SUM ITS  
148  
390



LATERAL CROSSINGS ARE EXISTING. REBAR HAS BEEN PLACED IN THE ENDS OF SCH. 80 CONDUIT TO ASSIST CONTRACTOR IN LOCATING PLACEMENT FOR PULLBOX.

REFER TO SHEET 23 FOR TYPICAL CCTV DETAILS  
REFER TO SHEET 353 FOR COMMUNICATION DETAILS

DETAIL "A" - 20 SCALE

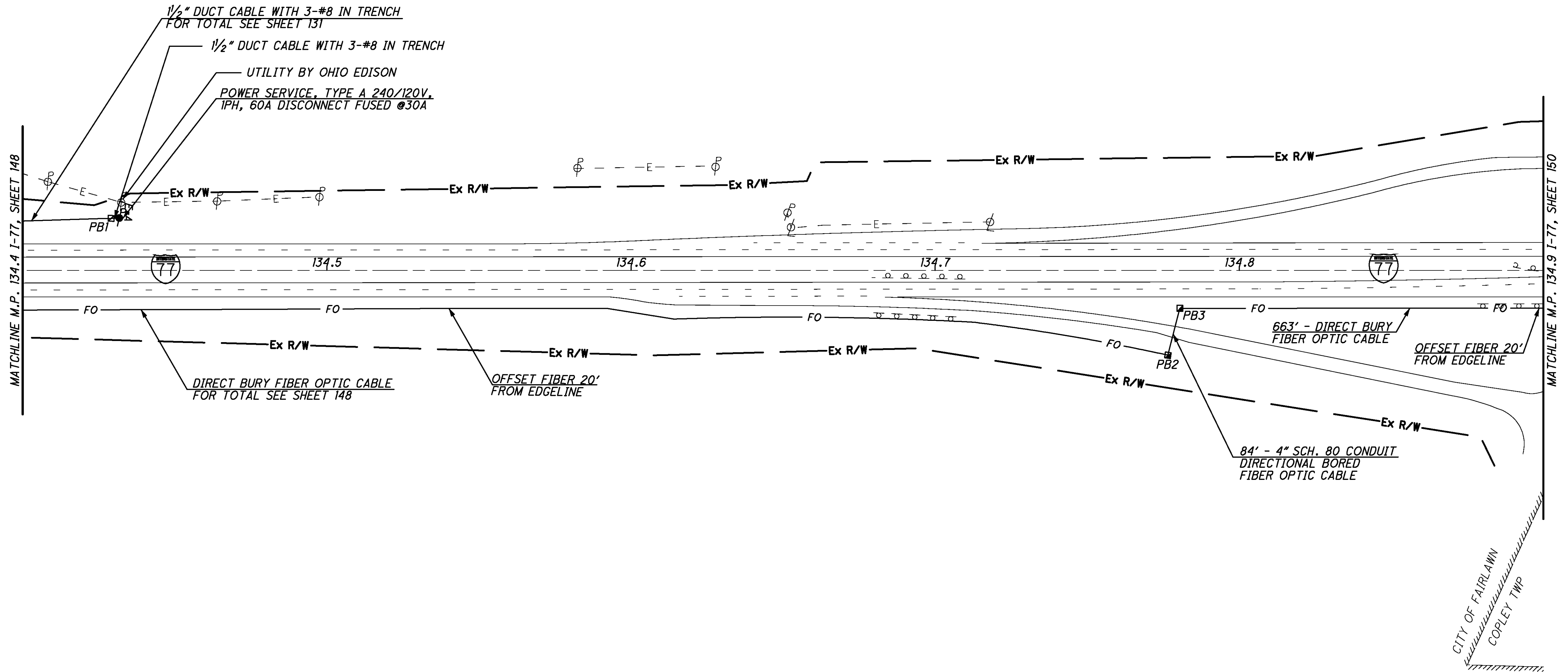


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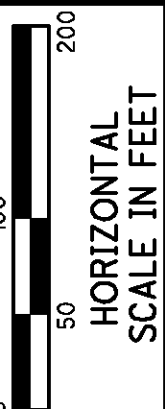
PROP. PULL BOX, 725.08: 18", PB1  
S.L.M. 134.43, 90' LT.

PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 134.78, 147' RT.

PROP. PULL BOX, 725.08: 32", PB3  
S.L.M. 134.78, 66' RT.



NO FIELD DEVICE ON THIS SHEET



CALCULATED STS  
CHECKED JDG

I-77 AT CLEVE. MASS. RD(MP 134.4 TO MP 134.9)  
CITY OF FAIRLAWN, SUMMIT COUNTY

STA - SUM ITS

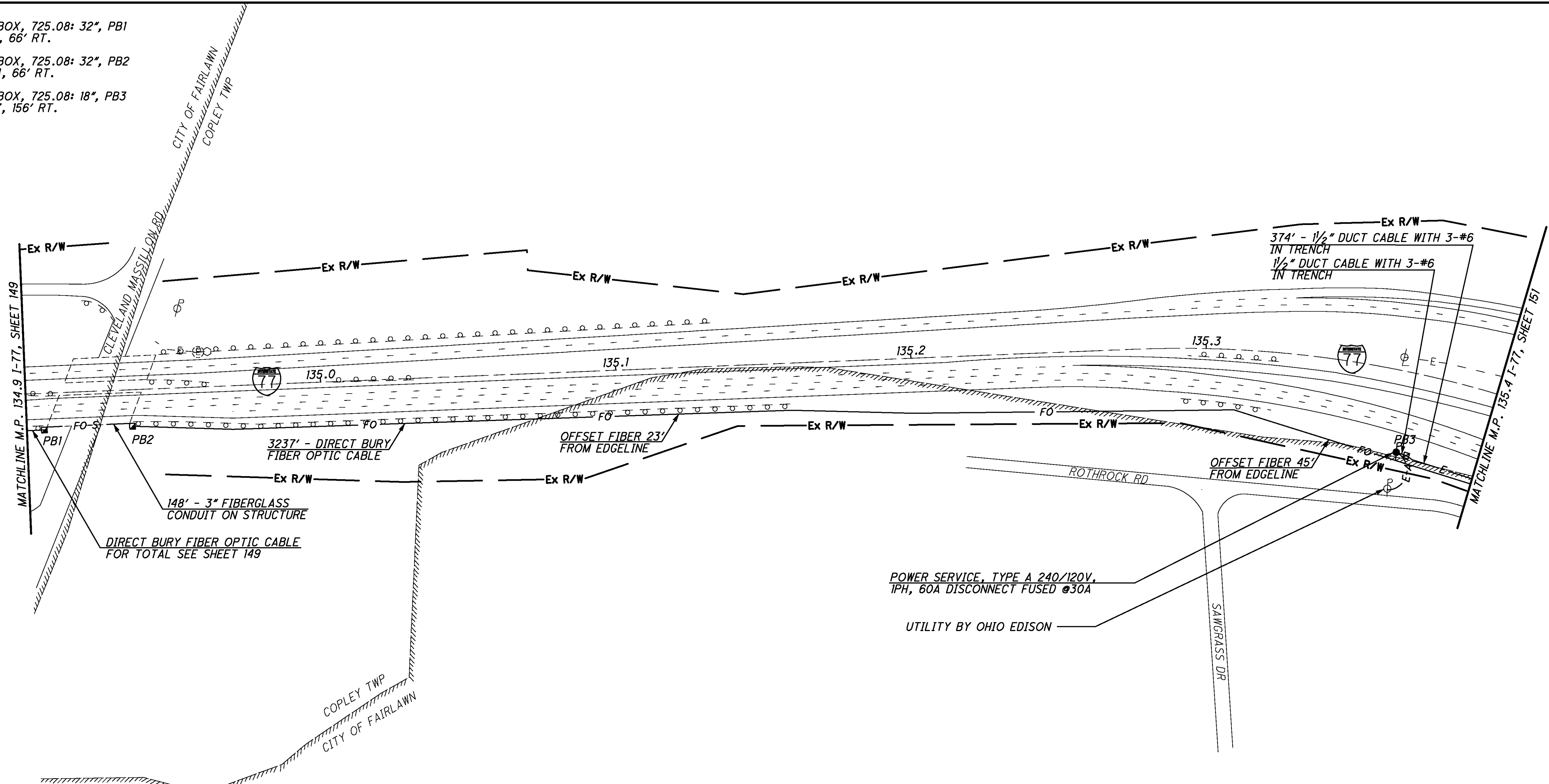
149  
390

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PROP. PULL BOX, 725.08: 32", PB1  
 S.L.M. 134.91, 66' RT.

PROP. PULL BOX, 725.08: 32", PB2  
 S.L.M. 134.94, 66' RT.

PROP. PULL BOX, 725.08: 18", PB3  
 S.L.M. 135.37, 156' RT.



REFER TO SHEET 13 FOR TYPICAL CONDUIT ATTACHED TO STRUCTURE DETAILS

REFER TO SHEET 250 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR BRIDGE OVER CLEVELAND MASSILLON ROAD

NO FIELD DEVICE ON THIS SHEET

CALCULATED STS CHECKED JDG

0 50 100 200  
 HORIZONTAL SCALE IN FEET

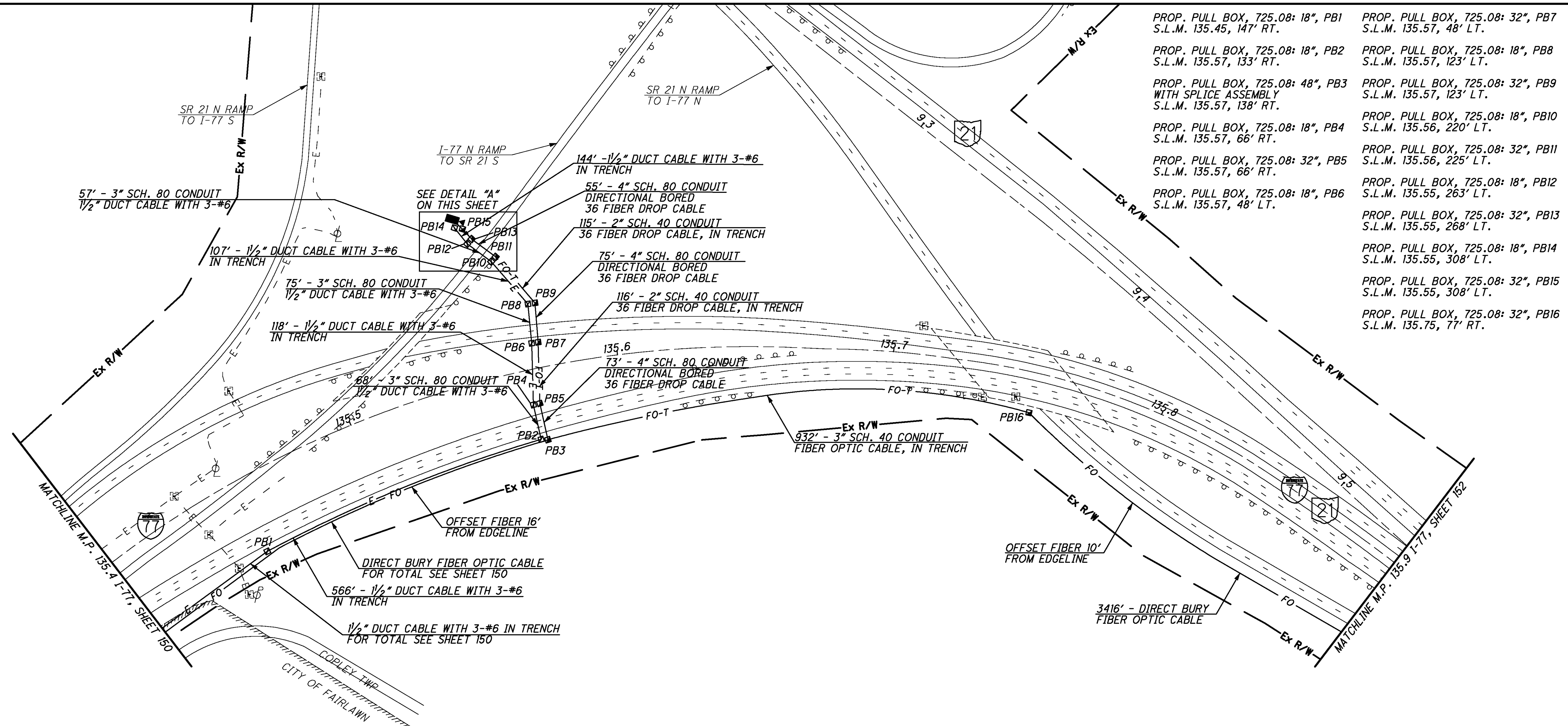
I-77 AT CLEVE. MASS. RD (MP 134.9 TO 135.4)  
 COPLEY TOWNSHIP, SUMMIT COUNTY

STA - SUM ITS

150  
 390



j:\JOBS\42430\TECHPROD\13311\traffic\sheets\13311GP094.dgn 06-DEC-2007 3:46PM jshea



- PROP. PULL BOX, 725.08: 18", PB1  
S.L.M. 135.45, 147' RT.
- PROP. PULL BOX, 725.08: 18", PB2  
S.L.M. 135.57, 133' RT.
- PROP. PULL BOX, 725.08: 48", PB3  
WITH SPLICE ASSEMBLY  
S.L.M. 135.57, 138' RT.
- PROP. PULL BOX, 725.08: 18", PB4  
S.L.M. 135.57, 66' RT.
- PROP. PULL BOX, 725.08: 32", PB5  
S.L.M. 135.57, 66' RT.
- PROP. PULL BOX, 725.08: 18", PB6  
S.L.M. 135.57, 48' LT.
- PROP. PULL BOX, 725.08: 32", PB7  
S.L.M. 135.57, 48' LT.
- PROP. PULL BOX, 725.08: 18", PB8  
S.L.M. 135.57, 123' LT.
- PROP. PULL BOX, 725.08: 32", PB9  
S.L.M. 135.57, 123' LT.
- PROP. PULL BOX, 725.08: 18", PB10  
S.L.M. 135.56, 220' LT.
- PROP. PULL BOX, 725.08: 32", PB11  
S.L.M. 135.56, 225' LT.
- PROP. PULL BOX, 725.08: 18", PB12  
S.L.M. 135.55, 263' LT.
- PROP. PULL BOX, 725.08: 32", PB13  
S.L.M. 135.55, 268' LT.
- PROP. PULL BOX, 725.08: 18", PB14  
S.L.M. 135.55, 308' LT.
- PROP. PULL BOX, 725.08: 32", PB15  
S.L.M. 135.55, 308' LT.
- PROP. PULL BOX, 725.08: 32", PB16  
S.L.M. 135.75, 77' RT.

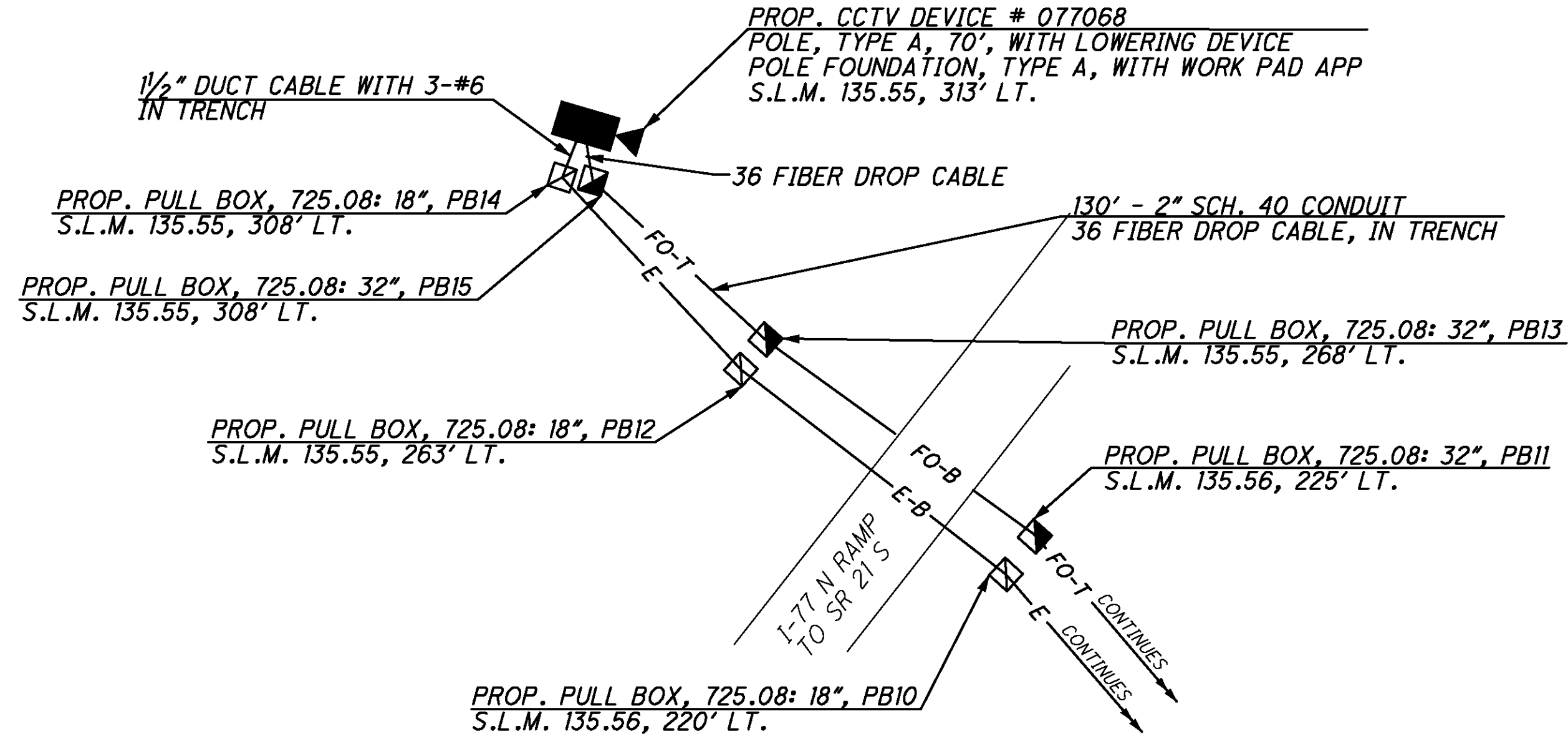
CALCULATED STS CHECKED JDG

HORIZONTAL SCALE IN FEET

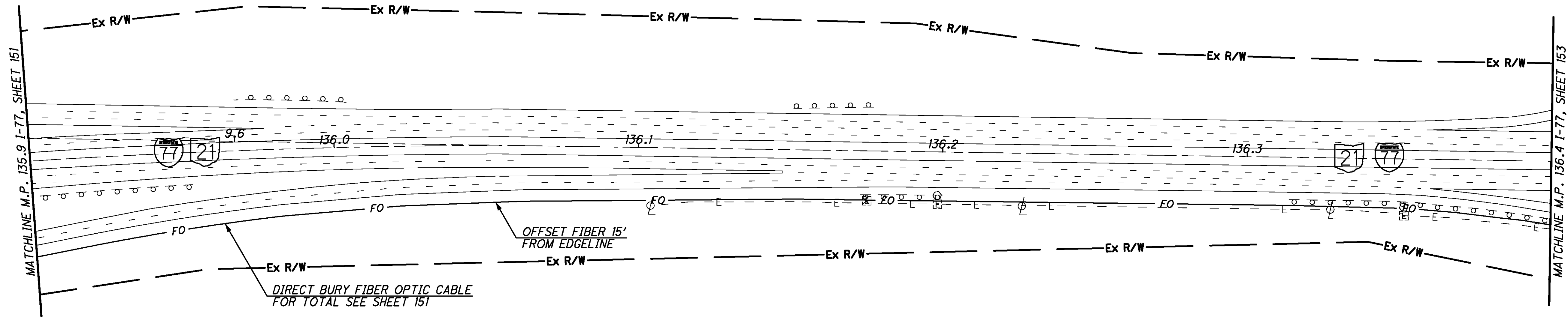
I-77 AT SR-21 (MP 135.4 TO MP 135.9)  
COPLEY TOWNSHIP, SUMMIT COUNTY

STA-SUM ITS

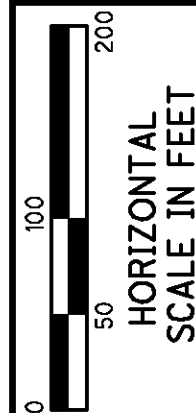
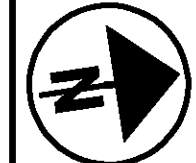
DETAIL "A" - 20 SCALE



REFER TO SHEET 23 FOR TYPICAL CCTV DETAILS  
REFER TO SHEETS 354-356 FOR COMMUNICATION DETAILS



NO FIELD DEVICE ON THIS SHEET



CALCULATED	STS
CHECKED	JDG

I-77 AT SR-18 (MP 135.9 TO MP 136.4)  
COPLEY TOWNSHIP, SUMMIT COUNTY

STA-SUM ITS

PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 136.41, 121' RT.

PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 136.42, 76' RT.

PROP. PULL BOX, 725.08: 32", PB3  
S.L.M. 136.53, 72' RT.

PROP. PULL BOX, 725.08: 32", PB4  
S.L.M. 136.54, 103' RT.

PROP. PULL BOX, 725.08: 32", PB5  
S.L.M. 136.61, 79' RT.



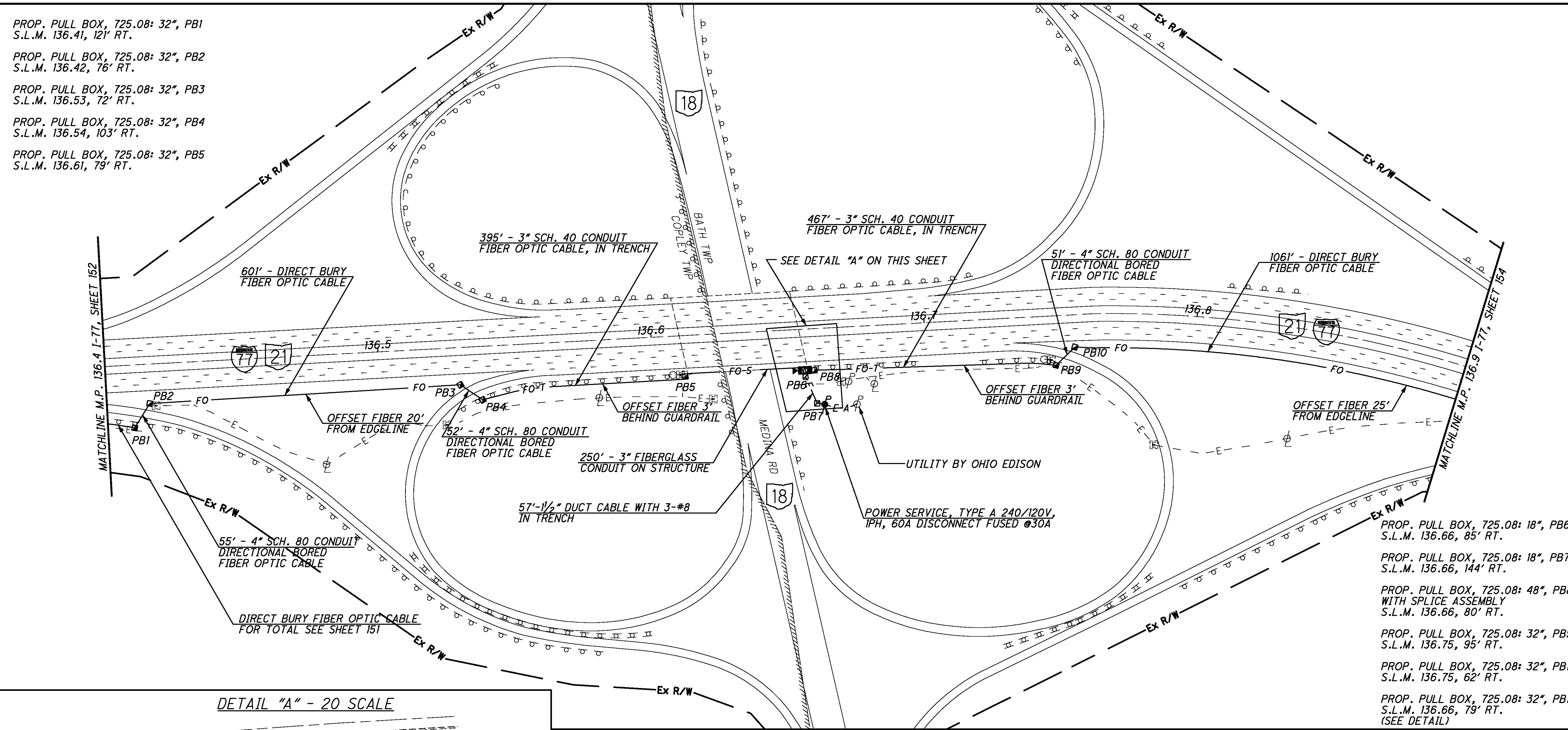
CALCULATED STS CHECKED JDG

I-77 AT SR-18 (MP 136.4 TO MP 136.9)  
BATH TOWNSHIP, SUMMIT COUNTY

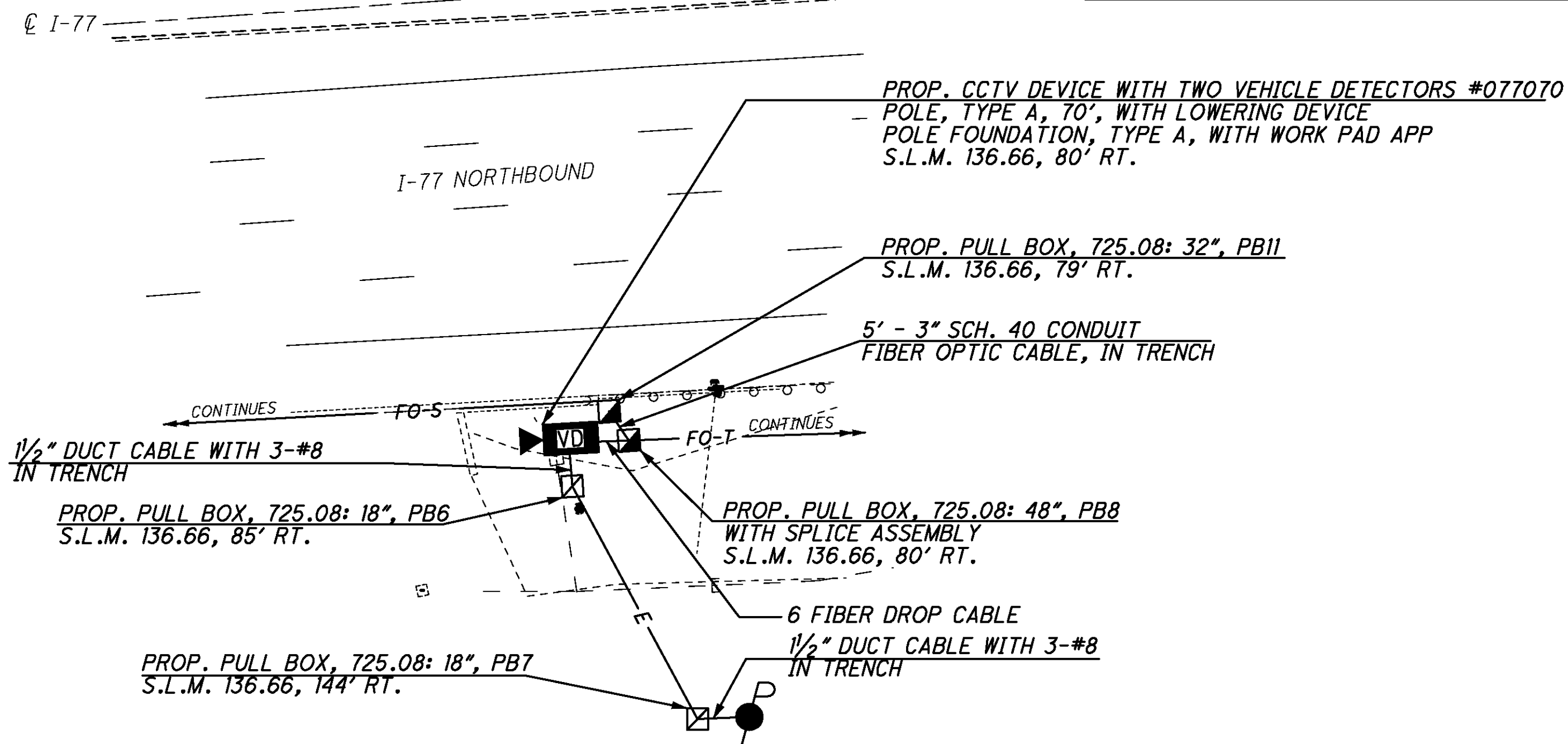
STA-SUM ITS

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390

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DETAIL "A" - 20 SCALE

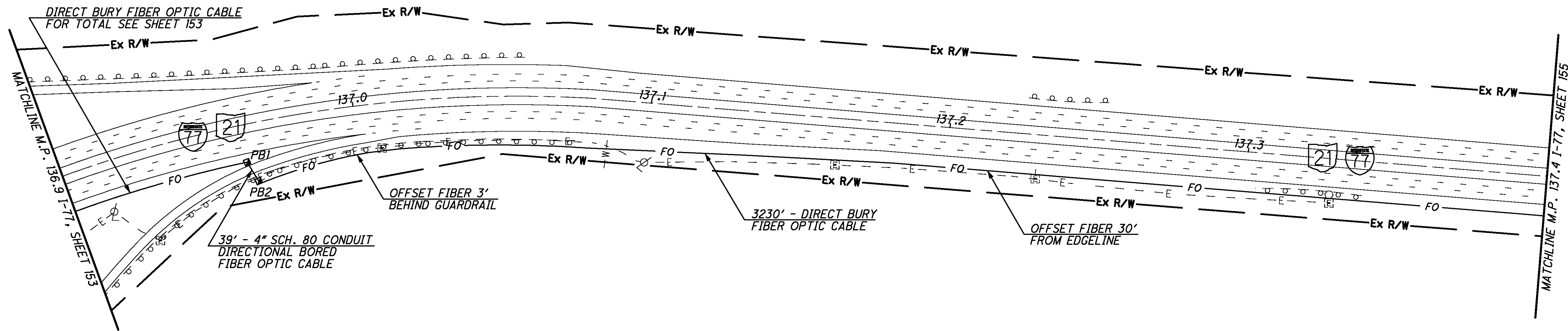


REFER TO SHEET 13 FOR TYPICAL CONDUIT ATTACHED TO STRUCTURE DETAILS  
REFER TO SHEET 24 FOR TYPICAL CCTV WITH TWO VEHICLE DETECTORS DETAILS  
REFER TO SHEET 251 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR BRIDGE OVER STATE ROUTE 18  
REFER TO SHEET 357 FOR COMMUNICATION DETAILS

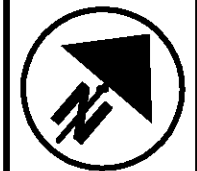
CCTV 077070

PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 136.96, 66' RT.

PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 136.96, 103' RT.



NO FIELD DEVICE ON THIS SHEET



CALCULATED STS  
CHECKED JDG

I-77 AT SR-18 (MP 136.9 TO MP 137.4)  
BATH TOWNSHIP, SUMMIT COUNTY

STA-SUM ITS

154  
390

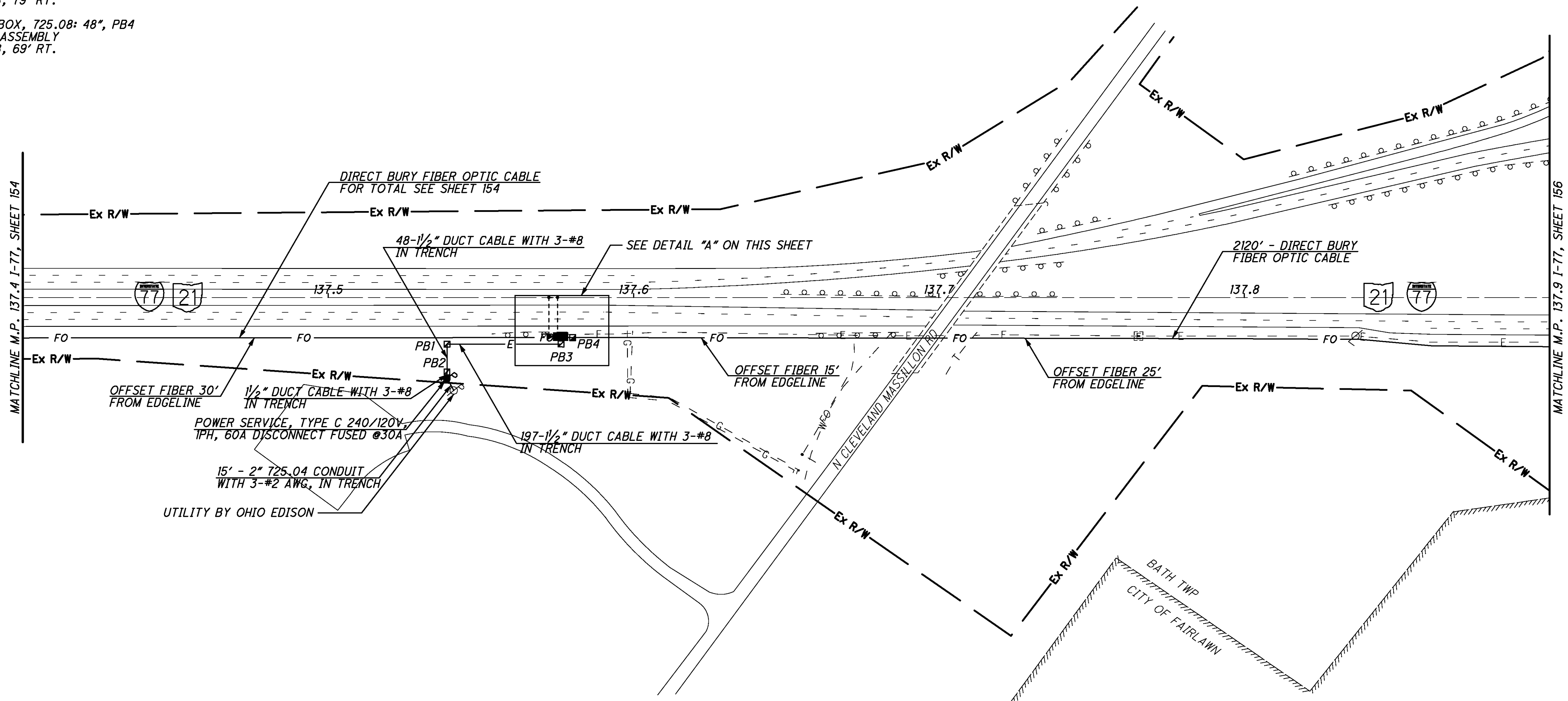
j:\JOBS\42430\TECHPROD\13311\traffic\sheets\13311GP097.dgn 06-DEC-2007 3:46PM jshea

PROP. PULL BOX, 725.08: 18", PB1  
S.L.M. 137.54, 81' RT.

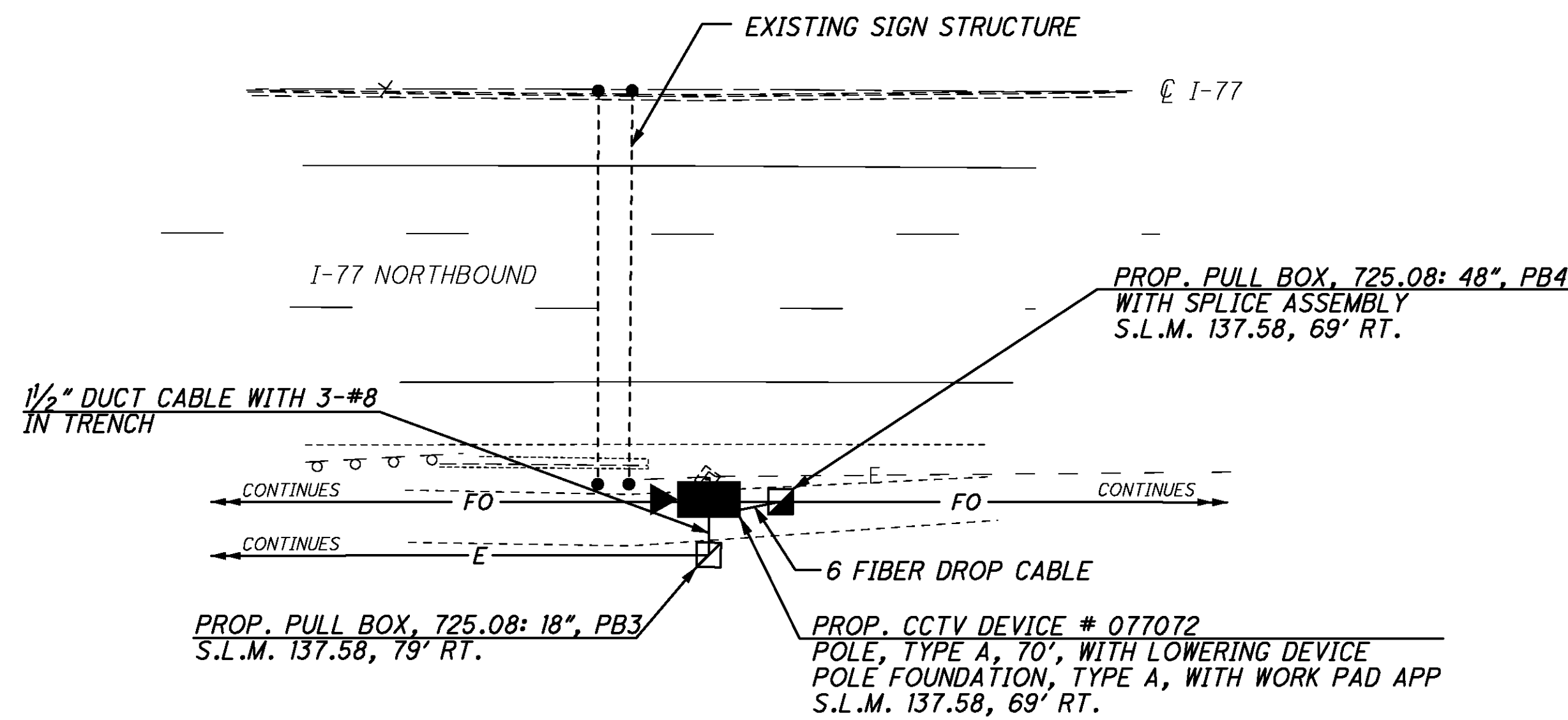
PROP. PULL BOX, 725.08: 18", PB2  
S.L.M. 137.54, 129' RT.

PROP. PULL BOX, 725.08: 18", PB3  
S.L.M. 137.58, 79' RT.

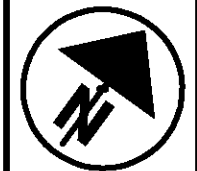
PROP. PULL BOX, 725.08: 48", PB4  
WITH SPLICE ASSEMBLY  
S.L.M. 137.58, 69' RT.



DETAIL "A" - 20 SCALE



REFER TO SHEET 23 FOR TYPICAL CCTV DETAILS  
REFER TO SHEET 358 FOR COMMUNICATION DETAILS



CALCULATED STS  
CHECKED JDG

I-77 AT CLEVE. MASS. RD(MP 137.4 TO MP 137.9)  
BATH TOWNSHIP, SUMMIT COUNTY

STA-SUM ITS


155  
390

CCTV 077072

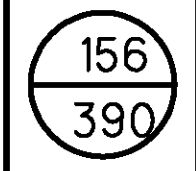
J:\JOBS\42430\TECHPROD\13311\traffic\sheets\13311GP098.dgn 06-DEC-2007 3:46PM jshea



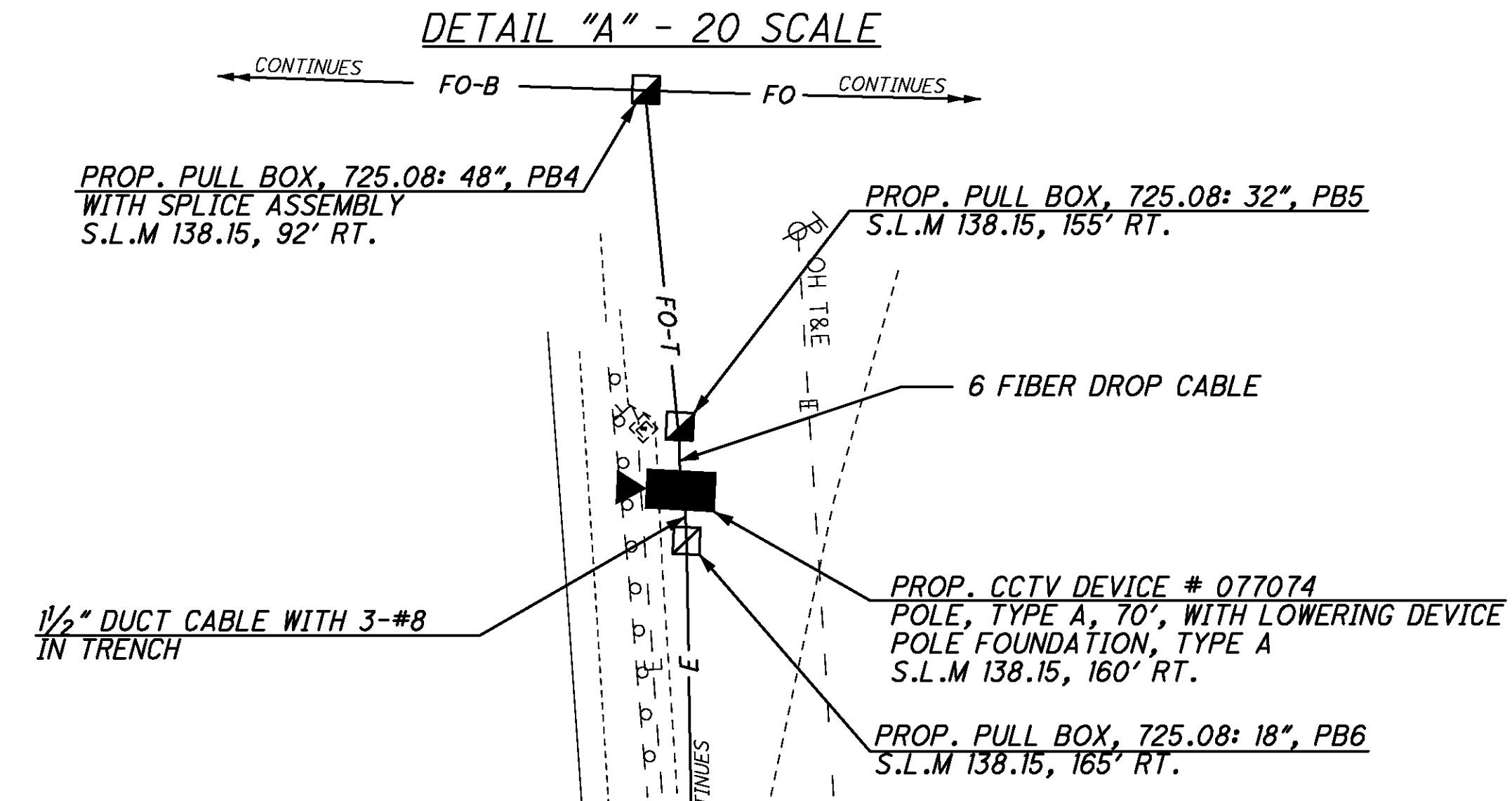
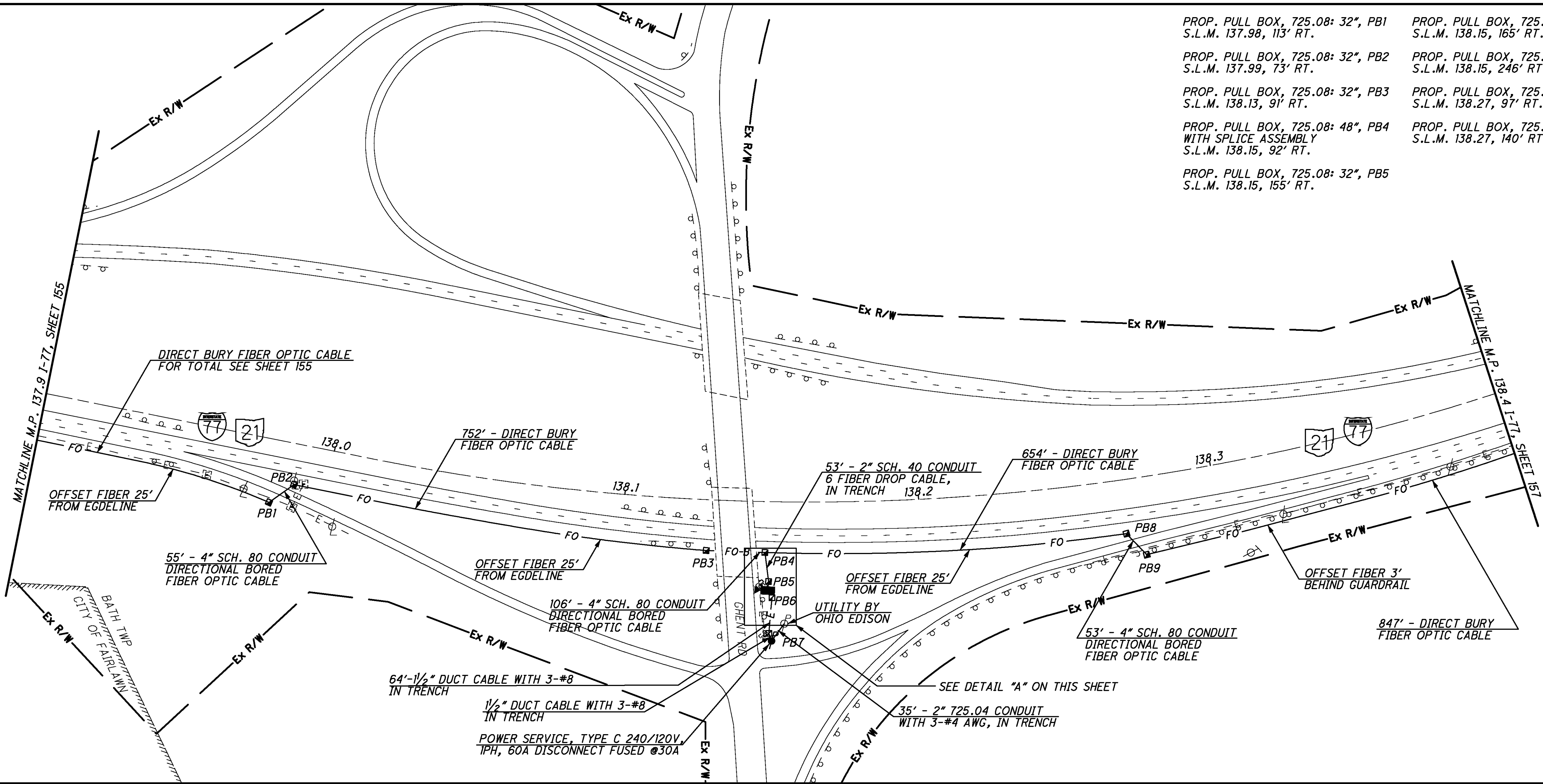
j:\JOBS\42430\TECHPROD\13311\traffic\sheets\13311GP099.dgn 06-DEC-2007 3:47PM jshen


  

  
 HORIZONTAL SCALE IN FEET

CALCULATED STS CHECKED JDG  
**I-77 AT GHENT RD (MP 137.9 TO MP 138.4)**  
**BATH TOWNSHIP, SUMMIT COUNTY**

**STA-SUM ITS**  


- PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 137.98, 113' RT.
- PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 137.99, 73' RT.
- PROP. PULL BOX, 725.08: 32", PB3  
S.L.M. 138.13, 91' RT.
- PROP. PULL BOX, 725.08: 48", PB4  
WITH SPLICE ASSEMBLY  
S.L.M. 138.15, 92' RT.
- PROP. PULL BOX, 725.08: 32", PB5  
S.L.M. 138.15, 155' RT.
- PROP. PULL BOX, 725.08: 18", PB6  
S.L.M. 138.15, 165' RT.
- PROP. PULL BOX, 725.08: 18", PB7  
S.L.M. 138.15, 246' RT.
- PROP. PULL BOX, 725.08: 32", PB8  
S.L.M. 138.27, 97' RT.
- PROP. PULL BOX, 725.08: 32", PB9  
S.L.M. 138.27, 140' RT.



REFER TO SHEET 23 FOR TYPICAL CCTV DETAILS  
 REFER TO SHEET 359 FOR COMMUNICATION DETAILS

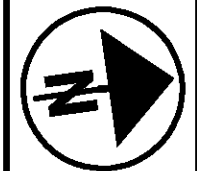
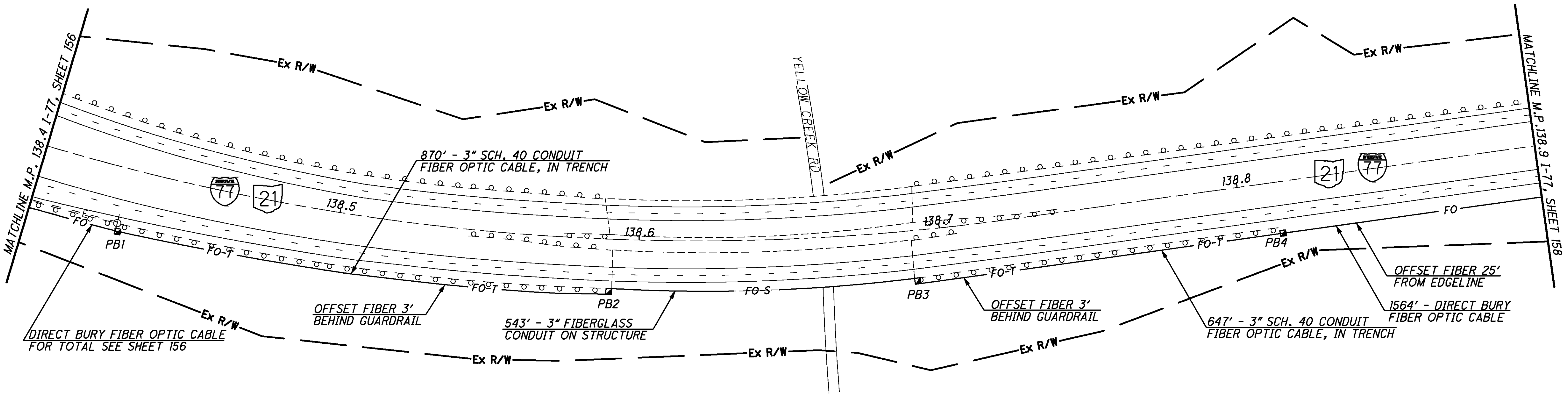
CCTV 077074

PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 138.43, 112' RT.

PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 138.59, 92' RT.

PROP. PULL BOX, 725.08: 32", PB3  
S.L.M. 138.69, 89' RT.

PROP. PULL BOX, 725.08: 32", PB4  
S.L.M. 138.81, 91' RT.



CALCULATED STS  
CHECKED JDG

I-77 AT YELLOW CREEK(MP 138.4 TO MP 138.9)  
BATH TOWNSHIP, SUMMIT COUNTY

STA-SUM ITS

157  
390

REFER TO SHEET 13 FOR TYPICAL CONDUIT ATTACHED TO STRUCTURE DETAILS  
REFER TO SHEET 252 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR BRIDGE OVER YELLOW CREEK

NO FIELD DEVICE ON THIS SHEET

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PROP. PULL BOX, 725.08: 18", PB1  
S.L.M. 139.10, 130' LT.

PROP. PULL BOX, 725.08: 18", PB2  
S.L.M. 139.11, 89' LT.

PROP. PULL BOX, 725.08: 32", PB3  
S.L.M. 139.11, 83' LT.

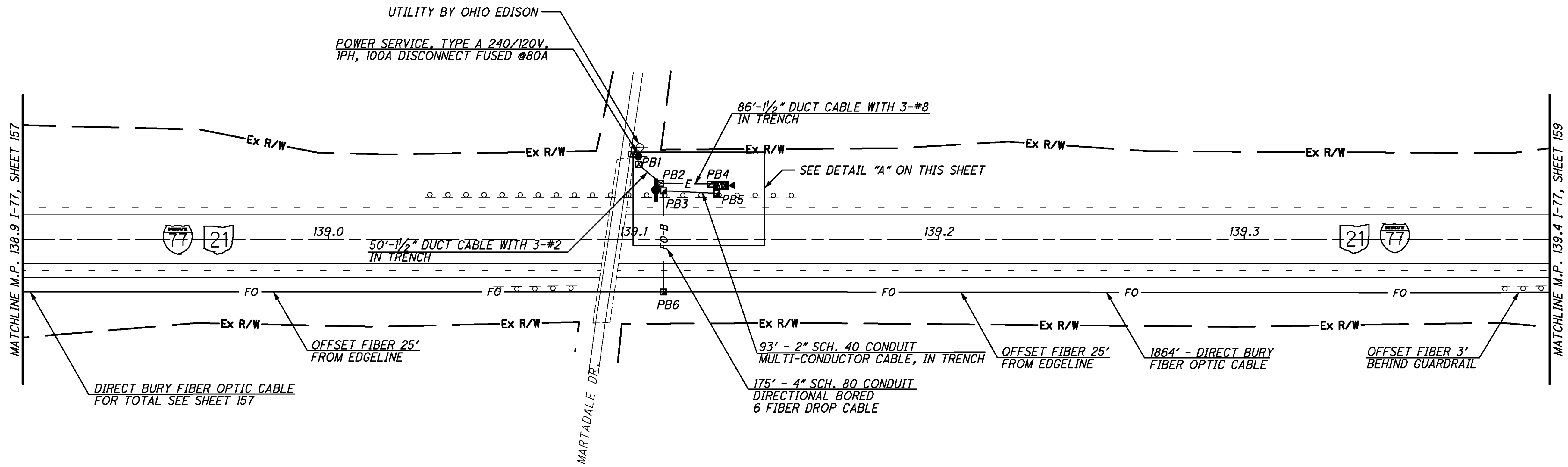
PROP. PULL BOX, 725.08: 18", PB4  
S.L.M. 139.13, 94' LT.

PROP. PULL BOX, 725.08: 32", PB5  
S.L.M. 139.13, 89' LT.

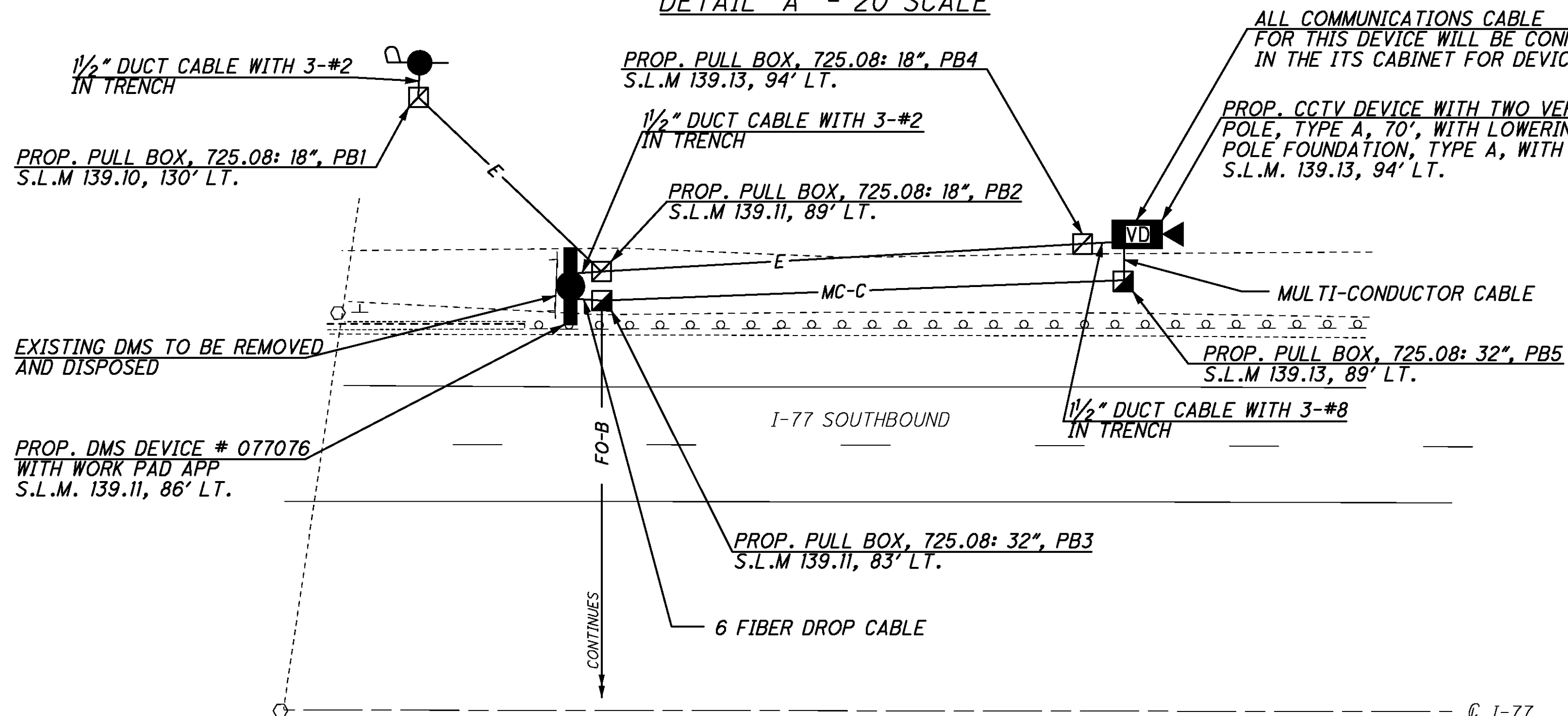
PROP. PULL BOX, 725.08: 48", PB6  
WITH SPLICE ASSEMBLY  
S.L.M. 139.11, 90' RT.

CALCULATED STS CHECKED JDG

0 50 100 200  
HORIZONTAL SCALE IN FEET



DETAIL "A" - 20 SCALE



REFER TO SHEET 24 FOR TYPICAL CCTV WITH TWO VEHICLE DETECTORS DETAILS

REFER TO SHEET 25 FOR TYPICAL DMS DETAILS

REFER TO SHEET 360 FOR COMMUNICATION DETAILS

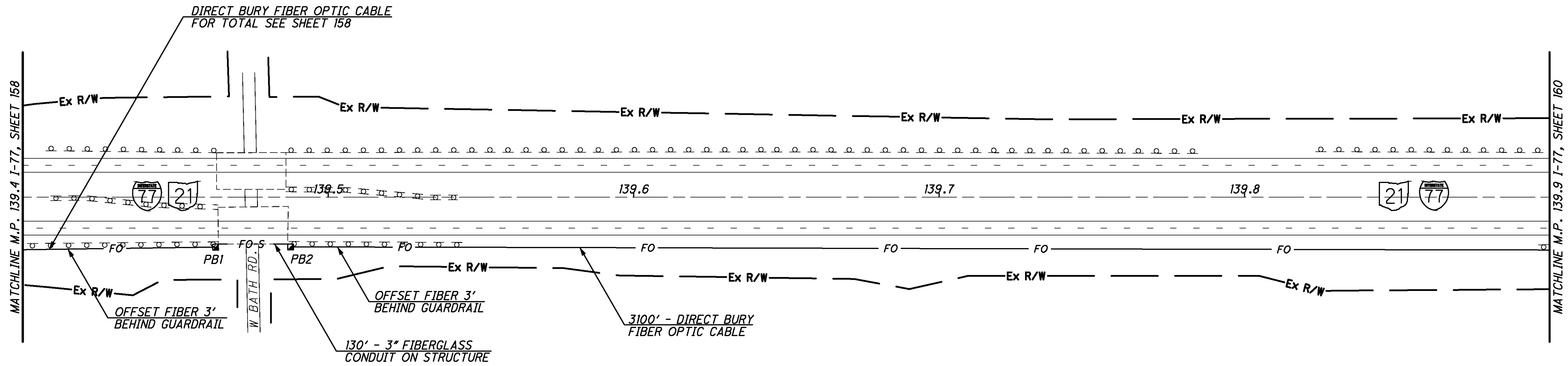
I-77 AT MARTADALE RD (MP 138.9 TO 139.4)  
BATH TOWNSHIP, SUMMIT COUNTY

STA-SUM ITS

J:\JOBS\42430\TECHPROD\13311\traffic\sheets\13311GP101.dgn 06-DEC-2007 3:47PM jsheda

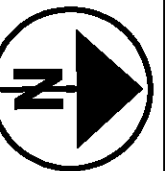
PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 139.46, 86' RT.

PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 139.48, 86' RT.



REFER TO SHEET 13 FOR TYPICAL CONDUIT ATTACHED TO STRUCTURE DETAILS  
REFER TO SHEET 253 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR BRIDGE OVER BATH ROAD

NO FIELD DEVICE ON THIS SHEET



CALCULATED STS  
CHECKED JDG

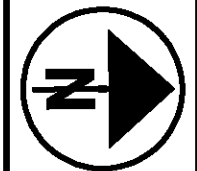
I-77 AT BATH RD (MP 139.4 TO MP 139.9)  
BATH TOWNSHIP, SUMMIT COUNTY

STA-SUM ITS

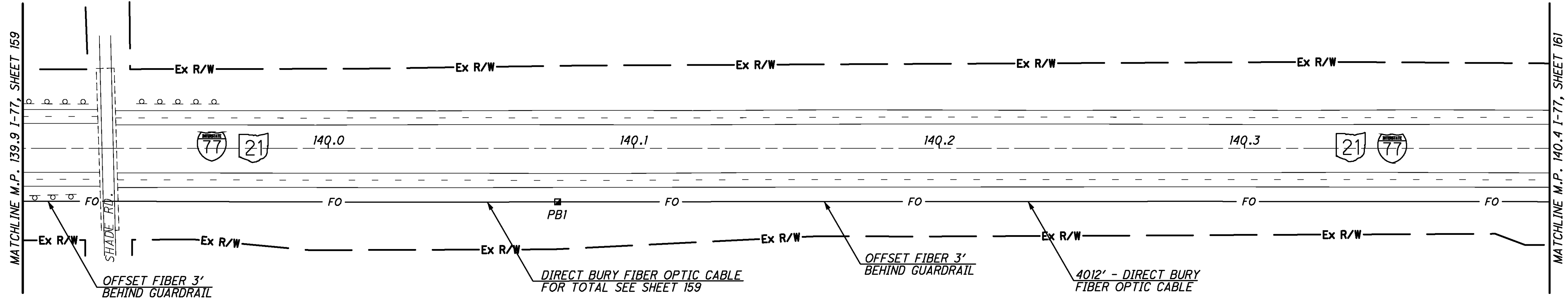
159  
390

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PROP. PULL BOX, 725.08: 32", PBI  
S.L.M. 140.08, 93' RT.



CALCULATED STS  
CHECKED JDG



NO FIELD DEVICE ON THIS SHEET

J:\JOBS\42430\TECHPROD\13311\traffic\sheets\13311GP103.dgn 06-DEC-2007 3:47PM jshea

I-77 AT SHADE RD (MP 139.9 TO MP 140.4)  
BATH TOWNSHIP, SUMMIT COUNTY

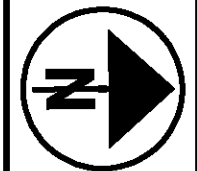
STA - SUM ITS

160  
390

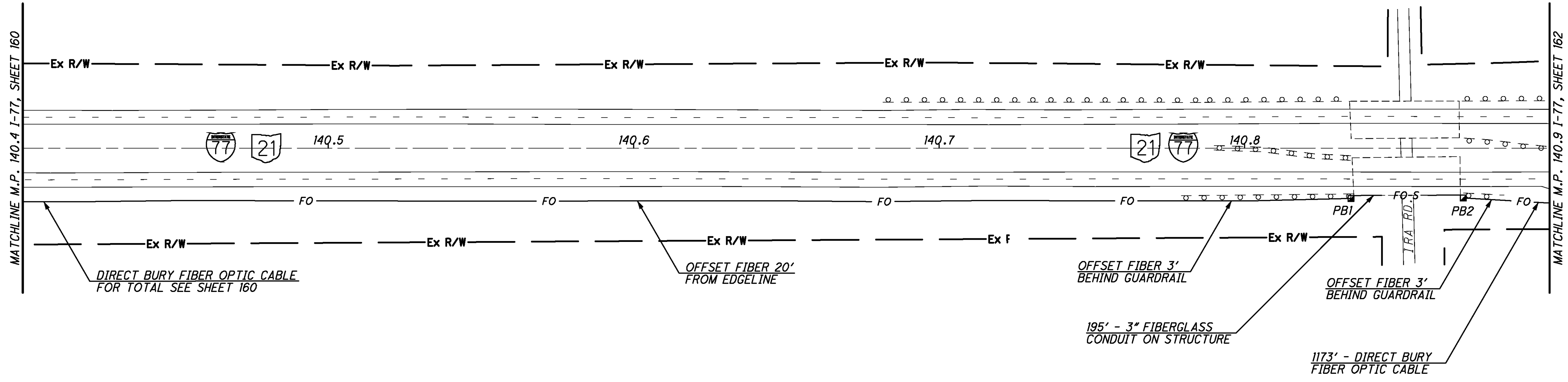


PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 140.83, 87' RT.

PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 140.87, 87' RT.



CALCULATED STS  
CHECKED JDG



REFER TO SHEET 13 FOR TYPICAL CONDUIT ATTACHED TO STRUCTURE DETAILS  
REFER TO SHEET 254 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR BRIDGE OVER IRA ROAD

NO FIELD DEVICE ON THIS SHEET

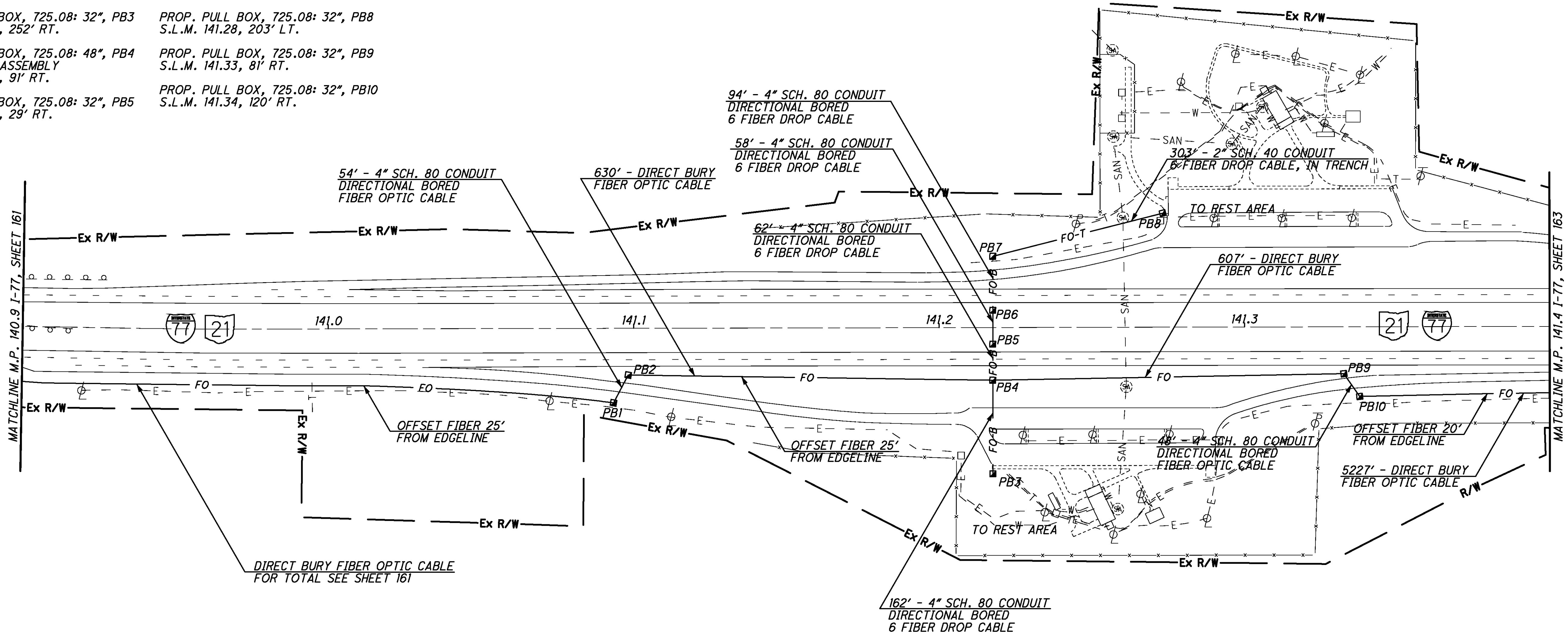
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I-77 AT IRA RD (MP 140.4 TO MP 140.9)  
BATH TOWNSHIP, SUMMIT COUNTY

STA-SUM ITS

161  
390

- PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 141.10, 129' RT.
- PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 141.10, 81' RT.
- PROP. PULL BOX, 725.08: 32", PB3  
S.L.M. 141.22, 252' RT.
- PROP. PULL BOX, 725.08: 48", PB4  
WITH SPLICE ASSEMBLY  
S.L.M. 141.22, 91' RT.
- PROP. PULL BOX, 725.08: 32", PB5  
S.L.M. 141.22, 29' RT.
- PROP. PULL BOX, 725.08: 32", PB6  
S.L.M. 141.22, 30' LT.
- PROP. PULL BOX, 725.08: 32", PB7  
S.L.M. 141.22, 123' LT.
- PROP. PULL BOX, 725.08: 32", PB8  
S.L.M. 141.28, 203' LT.
- PROP. PULL BOX, 725.08: 32", PB9  
S.L.M. 141.33, 81' RT.
- PROP. PULL BOX, 725.08: 32", PB10  
S.L.M. 141.34, 120' RT.



NO FIELD DEVICE ON THIS SHEET

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N

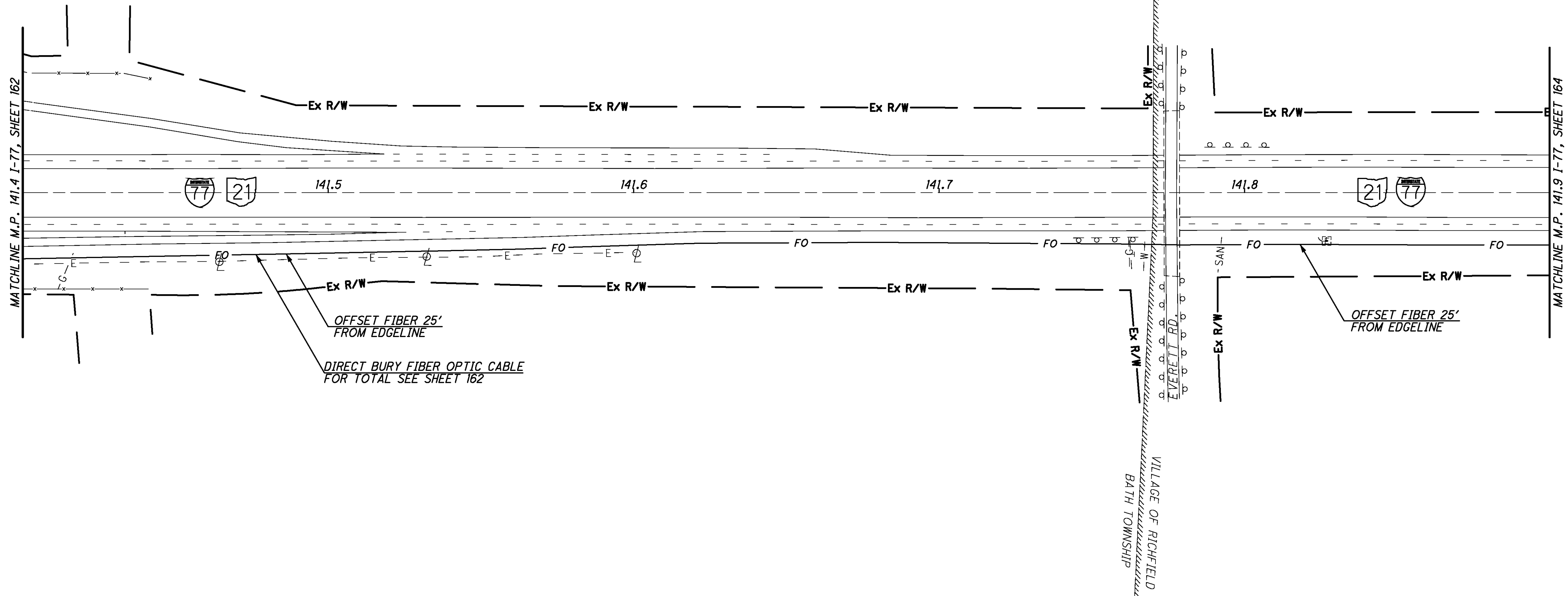
0 50 100 200  
HORIZONTAL  
SCALE IN FEET

CALCULATED	JDG
STS	CHECKED

**I-77 AT REST AREA (MP 140.9 TO MP 141.4)  
BATH TOWNSHIP, SUMMIT COUNTY**

STA - SUM ITS

162  
390



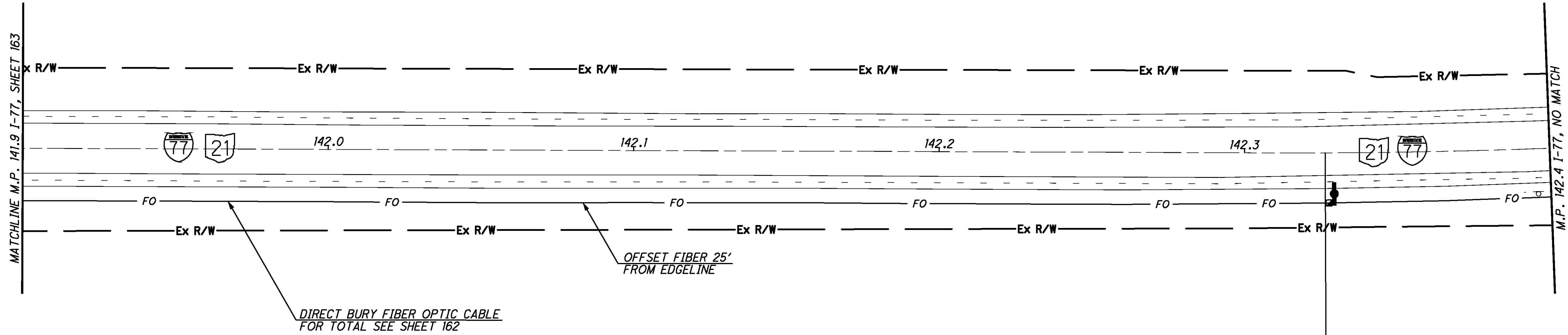
NO FIELD DEVICE ON THIS SHEET

<p>HORIZONTAL SCALE IN FEET</p>				
<table border="1"> <tr> <td style="font-size: small;">CALCULATED</td> <td style="text-align: center;">STS</td> </tr> <tr> <td style="font-size: small;">CHECKED</td> <td style="text-align: center;">JDG</td> </tr> </table>	CALCULATED	STS	CHECKED	JDG
CALCULATED	STS			
CHECKED	JDG			

**I-77 AT EVERETT RD (MP 141.4 TO MP 141.9)  
VILLAGE OF RICHFIELD, SUMMIT COUNTY**

**STA - SUM ITS**

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REFER TO SHEET 360 FOR COMMUNICATION DETAILS FOR CLEVELAND ITS TIE-IN

NO FIELD DEVICE ON THIS SHEET

CALCULATED STS  
CHECKED JDG

0 50 100 200  
HORIZONTAL SCALE IN FEET

N

I-77 AT HAROLD RD (MP 141.9 TO MP 142.4)  
VILLAGE OF RICHFIELD, SUMMIT COUNTY

STA-SUM ITS

164  
390

PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 0.43, 64' RT.

PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 0.79, 64' RT.

PROP. PULL BOX, 725.08: 18", PB3  
S.L.M. 0.73, 60' LT.

PROP. PULL BOX, 725.08: 18", PB4  
S.L.M. 0.73, 99' LT.

PROP. PULL BOX, 725.08: 18", PB5  
S.L.M. 0.79, 57' RT.

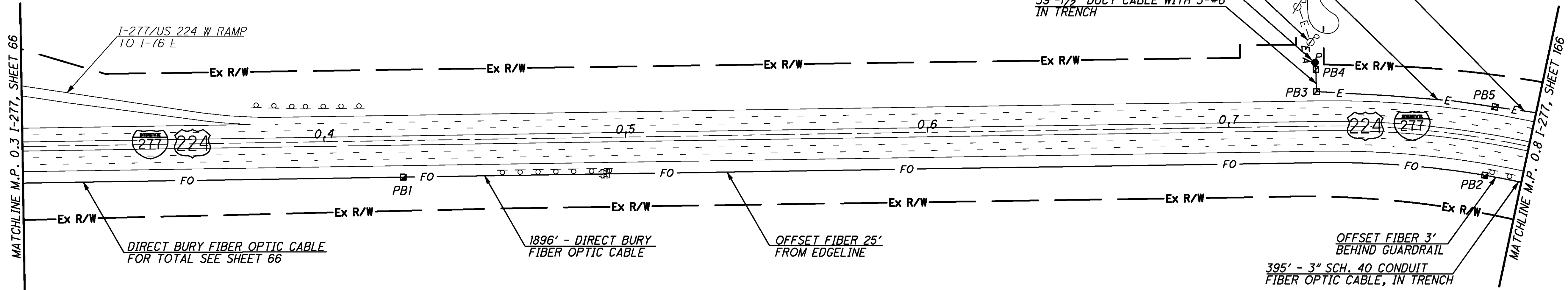
415'-1/2" DUCT CABLE WITH 3-#6  
IN TRENCH

314'-1/2" DUCT CABLE WITH 3-#6  
IN TRENCH

UTILITY BY OHIO EDISON

POWER SERVICE, TYPE A 240/120V,  
IPH, 60A DISCONNECT FUSED @30A

39'-1/2" DUCT CABLE WITH 3-#6  
IN TRENCH



I-277/US 224 W RAMP  
TO I-76 E

MATCHLINE M.P. 0.3 I-277, SHEET 66

MATCHLINE M.P. 0.8 I-277, SHEET 166

DIRECT BURY FIBER OPTIC CABLE  
FOR TOTAL SEE SHEET 66

1896' - DIRECT BURY  
FIBER OPTIC CABLE

OFFSET FIBER 25'  
FROM EDGELINE

OFFSET FIBER 3'  
BEHIND GUARDRAIL  
395' - 3" SCH. 40 CONDUIT  
FIBER OPTIC CABLE, IN TRENCH

NO FIELD DEVICE ON THIS SHEET

CALCULATED STS CHECKED JDG

HORIZONTAL SCALE IN FEET

I-277 AT I-76 (MP 0.3 TO MP 0.8)  
CITY OF AKRON, SUMMIT COUNTY

STA - SUM ITS

165  
390



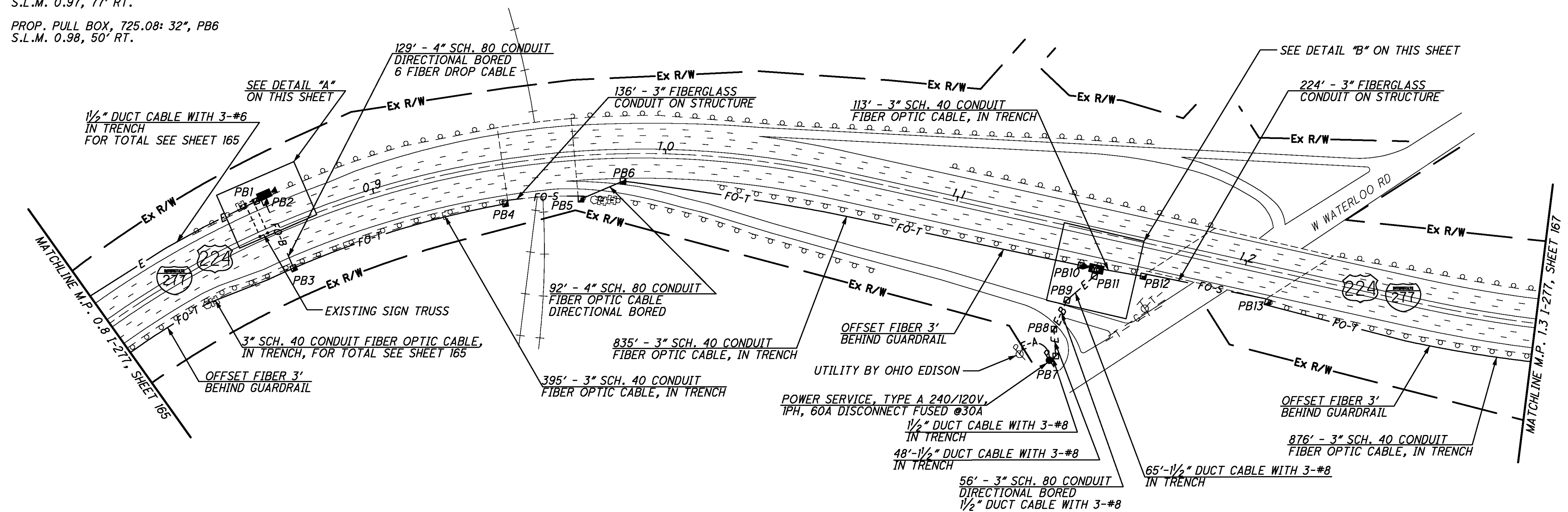
- PROP. PULL BOX, 725.08: 18", PB1  
S.L.M. 0.87, 65' LT.
- PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 0.87, 55' LT.
- PROP. PULL BOX, 725.08: 48", PB3  
WITH SPLICE ASSEMBLY  
S.L.M. 0.87, 76' RT.
- PROP. PULL BOX, 725.08: 32", PB4  
S.L.M. 0.94, 71' RT.
- PROP. PULL BOX, 725.08: 32", PB5  
S.L.M. 0.97, 77' RT.
- PROP. PULL BOX, 725.08: 32", PB6  
S.L.M. 0.98, 50' RT.
- PROP. PULL BOX, 725.08: 18", PB7  
S.L.M. 1.14, 232' RT.
- PROP. PULL BOX, 725.08: 18", PB8  
S.L.M. 1.14, 186' RT.
- PROP. PULL BOX, 725.08: 18", PB9  
S.L.M. 1.14, 130' RT.
- PROP. PULL BOX, 725.08: 48", PB10  
WITH SPLICE ASSEMBLY  
S.L.M. 1.14, 60' RT.
- PROP. PULL BOX, 725.08: 18", PB11  
S.L.M. 1.15, 65' RT.
- PROP. PULL BOX, 725.08: 32", PB12  
S.L.M. 1.17, 59' RT.
- PROP. PULL BOX, 725.08: 32", PB13  
S.L.M. 1.21, 57' RT.

CALCULATED STS CHECKED JDG

0 50 100 200  
HORIZONTAL SCALE IN FEET

I-277 AT WATERLOO RD (MP 0.8 TO MP 1.3)  
CITY OF AKRON, SUMMIT COUNTY

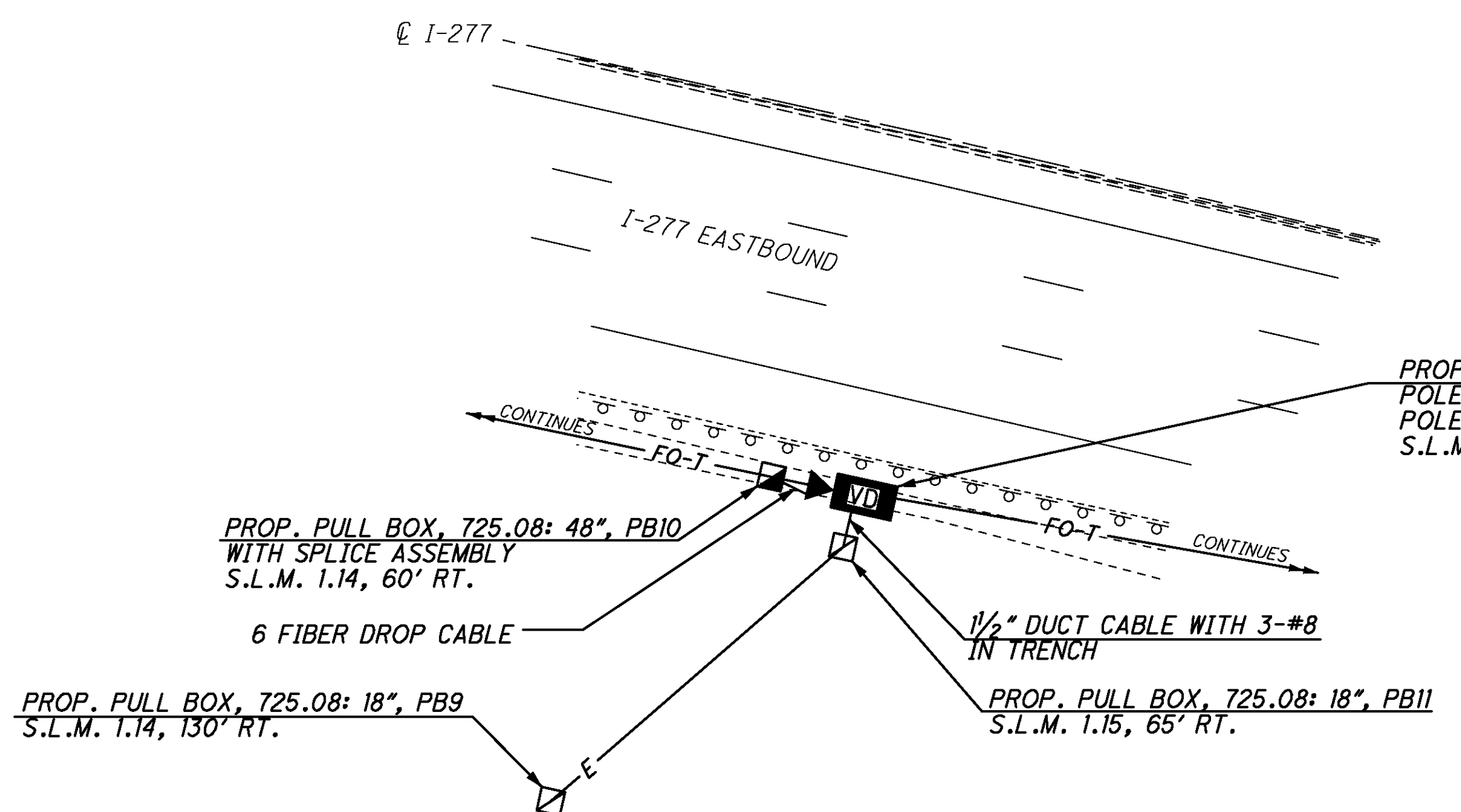
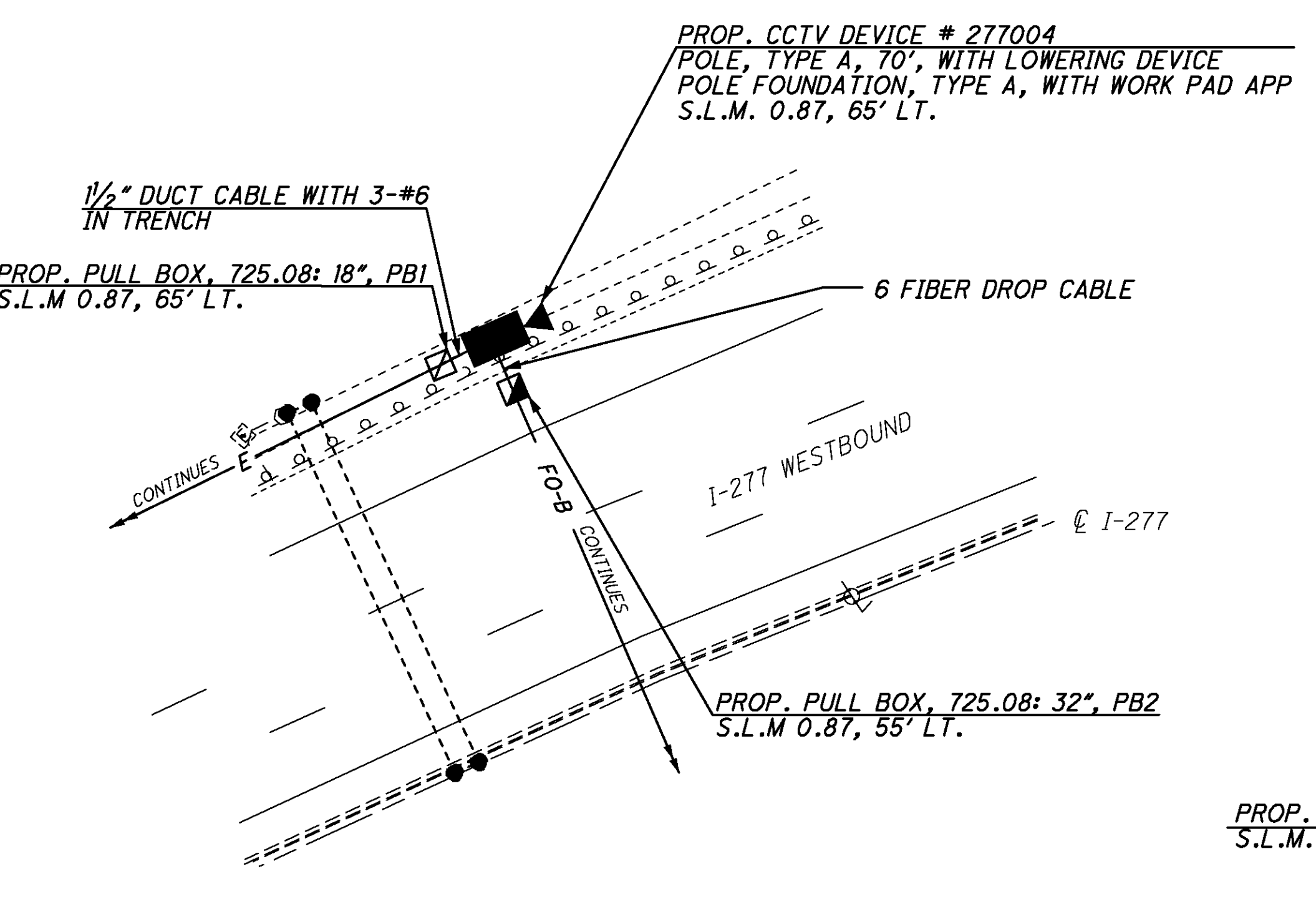
STA-SUM ITS



DETAIL "A" - 20 SCALE

DETAIL "B" - 20 SCALE

- REFER TO SHEET 13 FOR TYPICAL CONDUIT ATTACHED TO STRUCTURE DETAILS
- REFER TO SHEET 23 FOR TYPICAL CCTV DETAILS
- REFER TO SHEET 24 FOR TYPICAL CCTV WITH TWO VEHICLE DETECTORS DETAILS
- REFER TO SHEET 255 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR BRIDGE OVER AKRON AND BARBERTON BELT RAILROAD
- REFER TO SHEET 256 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR BRIDGE OVER WATERLOO RD.
- REFER TO SHEET 364 FOR CCTV DEVICE NO. 277004 COMMUNICATION DETAILS
- REFER TO SHEET 364 FOR CCTV DEVICE NO. 277006 COMMUNICATION DETAILS



CCTV 277004  
CCTV 277006

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PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 1.37, 60' RT.

PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 1.41, 60' RT.

PROP. PULL BOX, 725.08: 32", PB3  
S.L.M. 1.57, 64' RT.

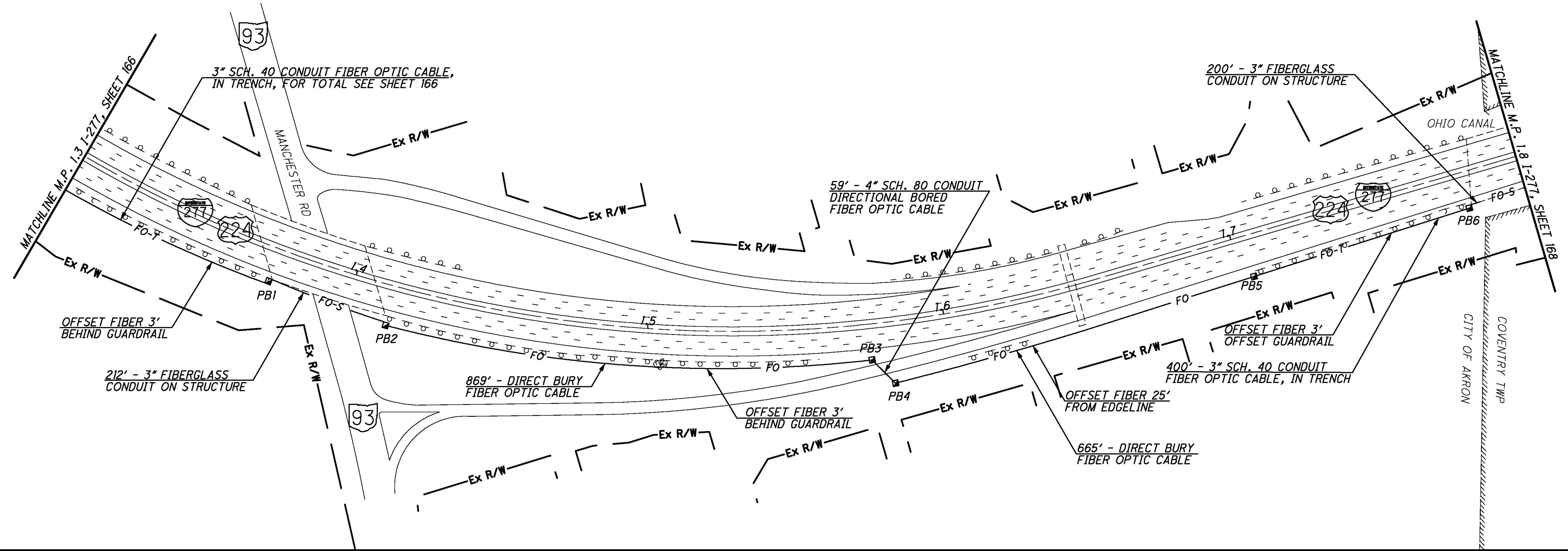
PROP. PULL BOX, 725.08: 32", PB4  
S.L.M. 1.58, 110' RT.

PROP. PULL BOX, 725.08: 32", PB5  
S.L.M. 1.70, 75' RT.

PROP. PULL BOX, 725.08: 32", PB6  
S.L.M. 1.78, 65' RT.



CALCULATED STS  
CHECKED JDG



REFER TO SHEET 13 FOR TYPICAL CONDUIT ATTACHED TO STRUCTURE DETAILS  
REFER TO SHEET 257 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR BRIDGE OVER MANCHESTER ROAD

NO FIELD DEVICE ON THIS SHEET

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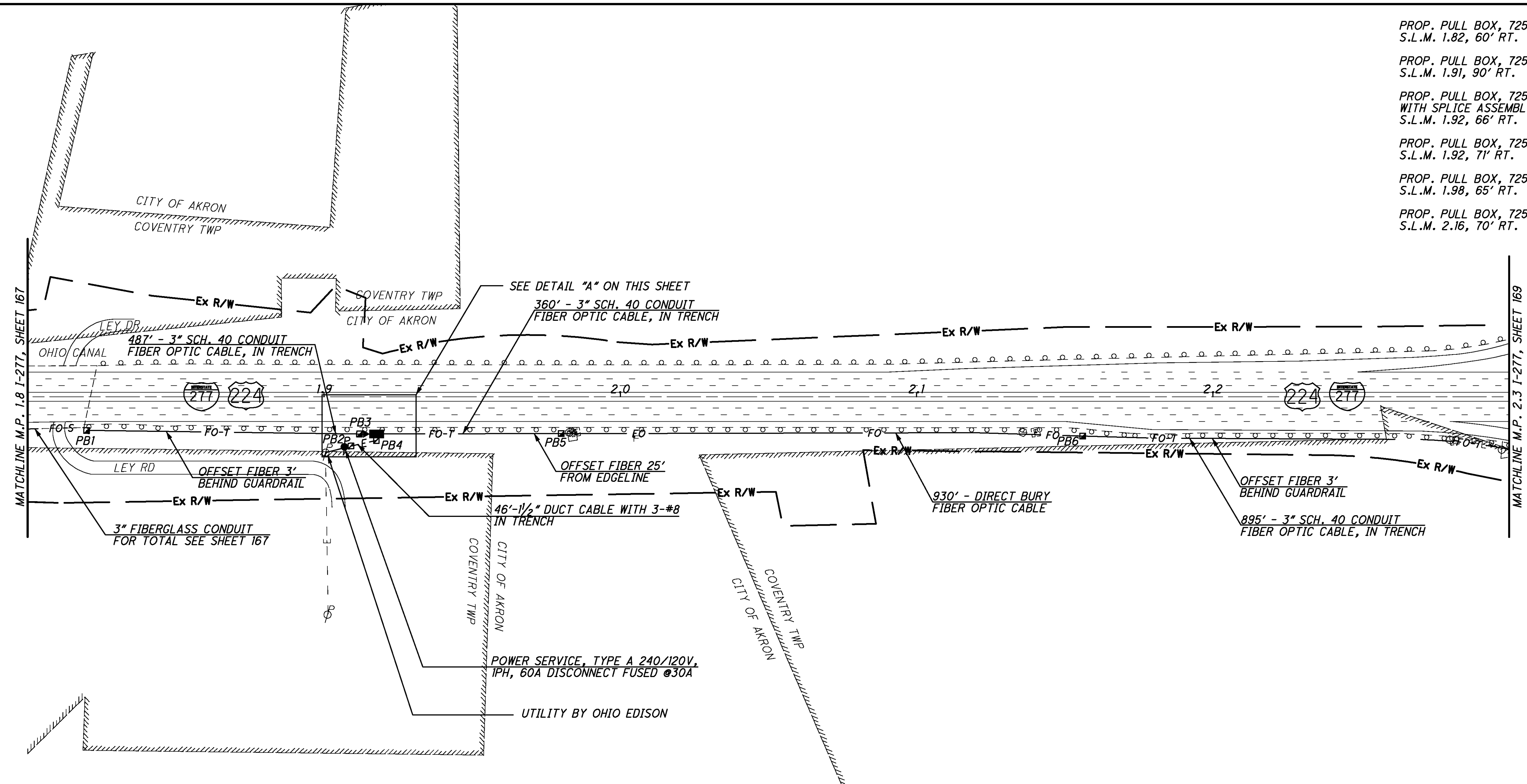
I-277 AT SR-93 (MP 1.3 TO MP 1.8)  
CITY OF AKRON, SUMMIT COUNTY

STA-SUM ITS

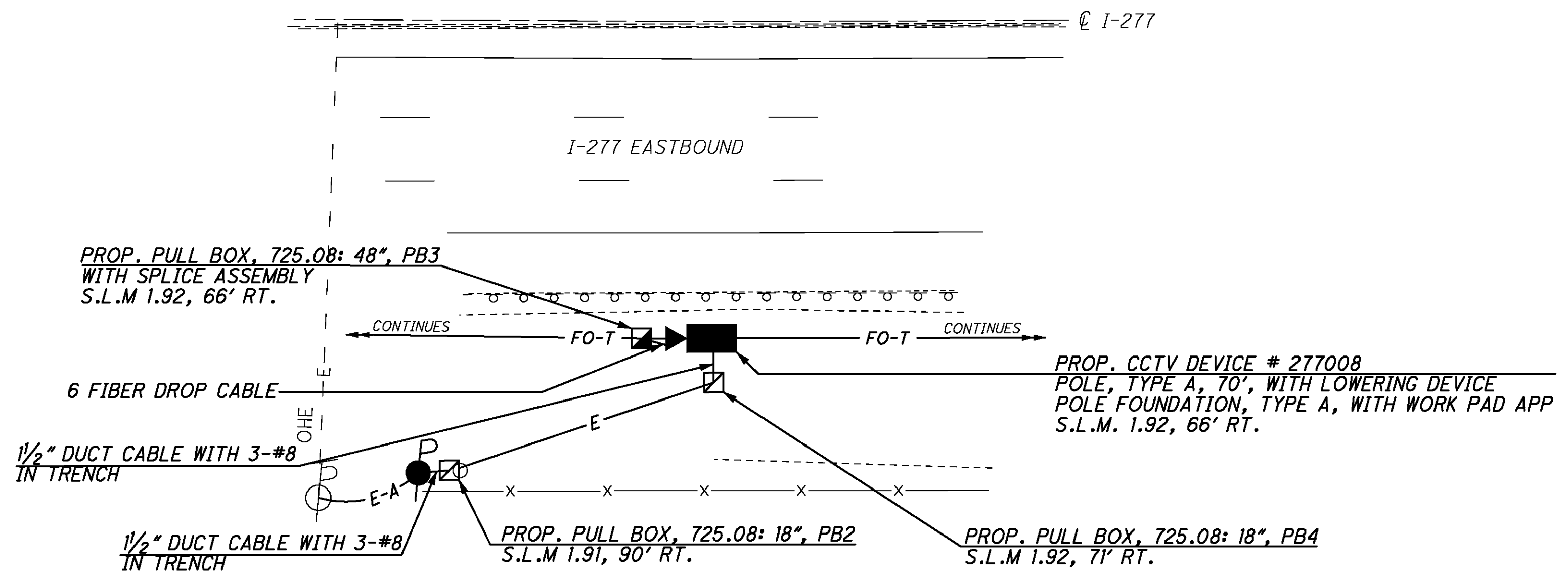

  

  
 HORIZONTAL SCALE IN FEET

- PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 1.82, 60' RT.
- PROP. PULL BOX, 725.08: 18", PB2  
S.L.M. 1.91, 90' RT.
- PROP. PULL BOX, 725.08: 48", PB3  
WITH SPLICE ASSEMBLY  
S.L.M. 1.92, 66' RT.
- PROP. PULL BOX, 725.08: 18", PB4  
S.L.M. 1.92, 71' RT.
- PROP. PULL BOX, 725.08: 32", PB5  
S.L.M. 1.98, 65' RT.
- PROP. PULL BOX, 725.08: 32", PB6  
S.L.M. 2.16, 70' RT.



**DETAIL "A" - 20 SCALE**



REFER TO SHEET 13 FOR TYPICAL CONDUIT ATTACHED TO STRUCTURE DETAILS  
 REFER TO SHEET 23 FOR TYPICAL CCTV DETAILS  
 REFER TO SHEET 258 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR BRIDGE OVER THE OHIO CANAL  
 REFER TO SHEET 366 FOR COMMUNICATION DETAILS

CCTV 277008

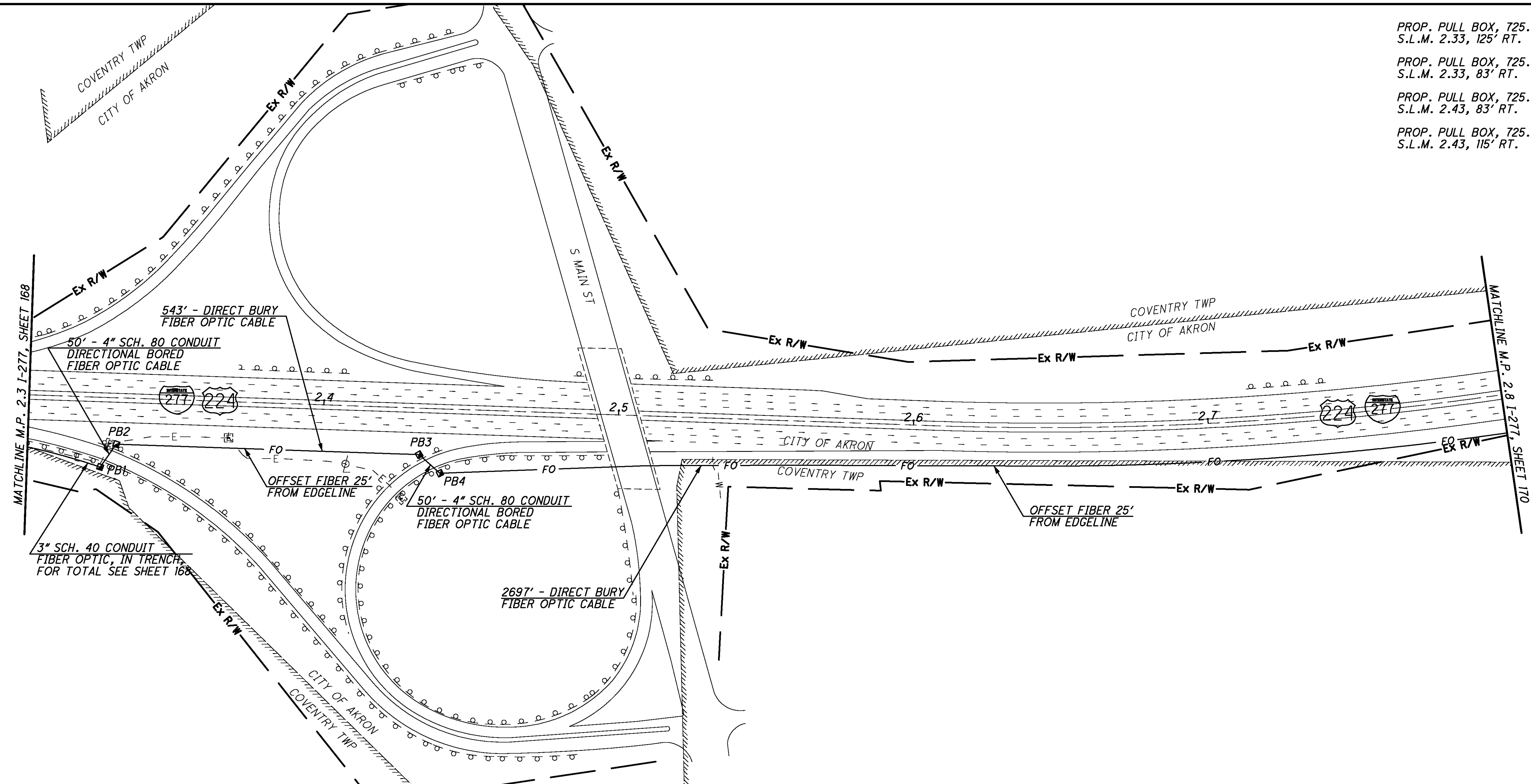
I-277 AT MAIN ST (MP 1.8 TO MP 2.3)  
 CITY OF AKRON, SUMMIT COUNTY

STA-SUM ITS

168  
 390

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PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 2.33, 125' RT.

PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 2.33, 83' RT.

PROP. PULL BOX, 725.08: 32", PB3  
S.L.M. 2.43, 83' RT.

PROP. PULL BOX, 725.08: 32", PB4  
S.L.M. 2.43, 115' RT.

CALCULATED STS CHECKED JDG

0 50 100 200  
HORIZONTAL SCALE IN FEET

I-277 AT MAIN ST (MP 2.3 TO MP 2.8)  
CITY OF AKRON, SUMMIT COUNTY

STA-SUM ITS

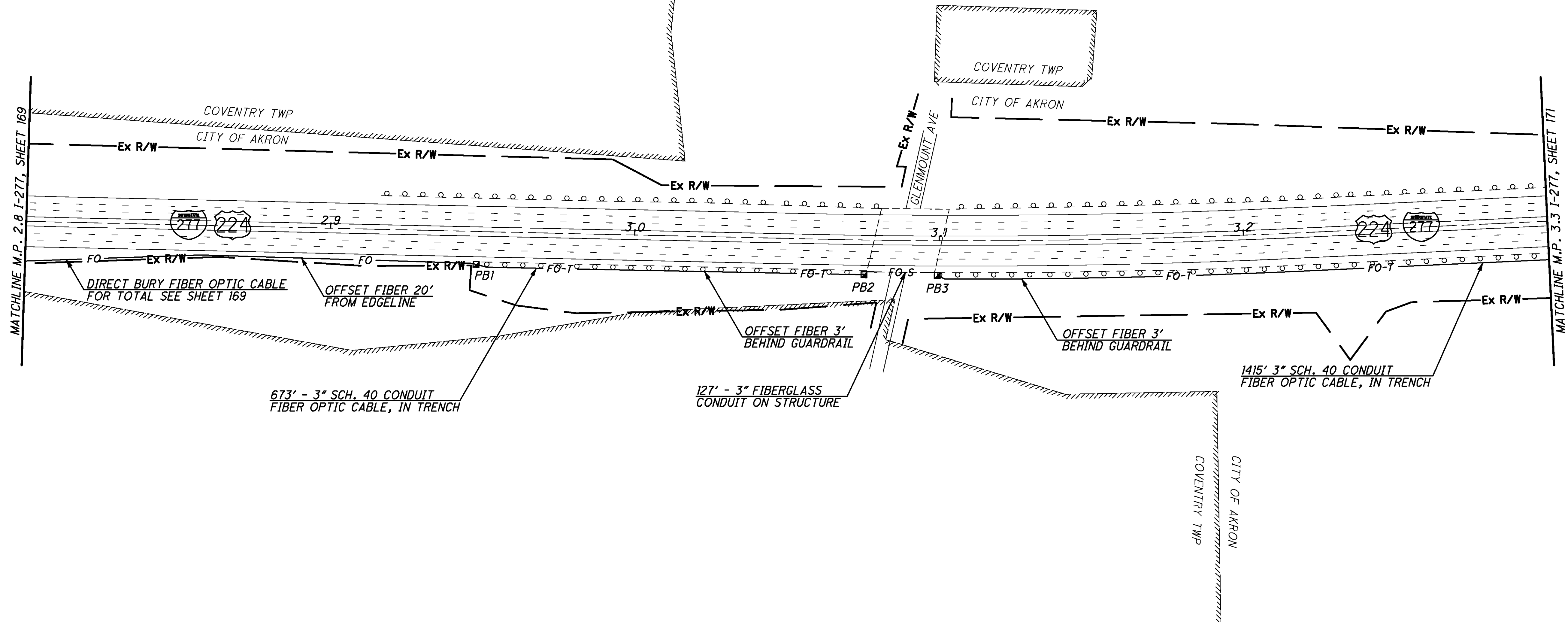
169  
390

NO FIELD DEVICE ON THIS SHEET

PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 2.95, 57' RT.

PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 3.08, 60' RT.

PROP. PULL BOX, 725.08: 32", PB3  
S.L.M. 3.10, 60' RT.



REFER TO SHEET 13 FOR TYPICAL CONDUIT ATTACHED TO STRUCTURE DETAILS  
REFER TO SHEET 259 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR BRIDGE OVER GLENMOUNT AVENUE

NO FIELD DEVICE ON THIS SHEET



CALCULATED STS  
CHECKED JDG

I-277 AT GLENMOUNT AVE (MP 2.8 TO MP 3.3)  
CITY OF AKRON, SUMMIT COUNTY

STA - SUM ITS

170  
390



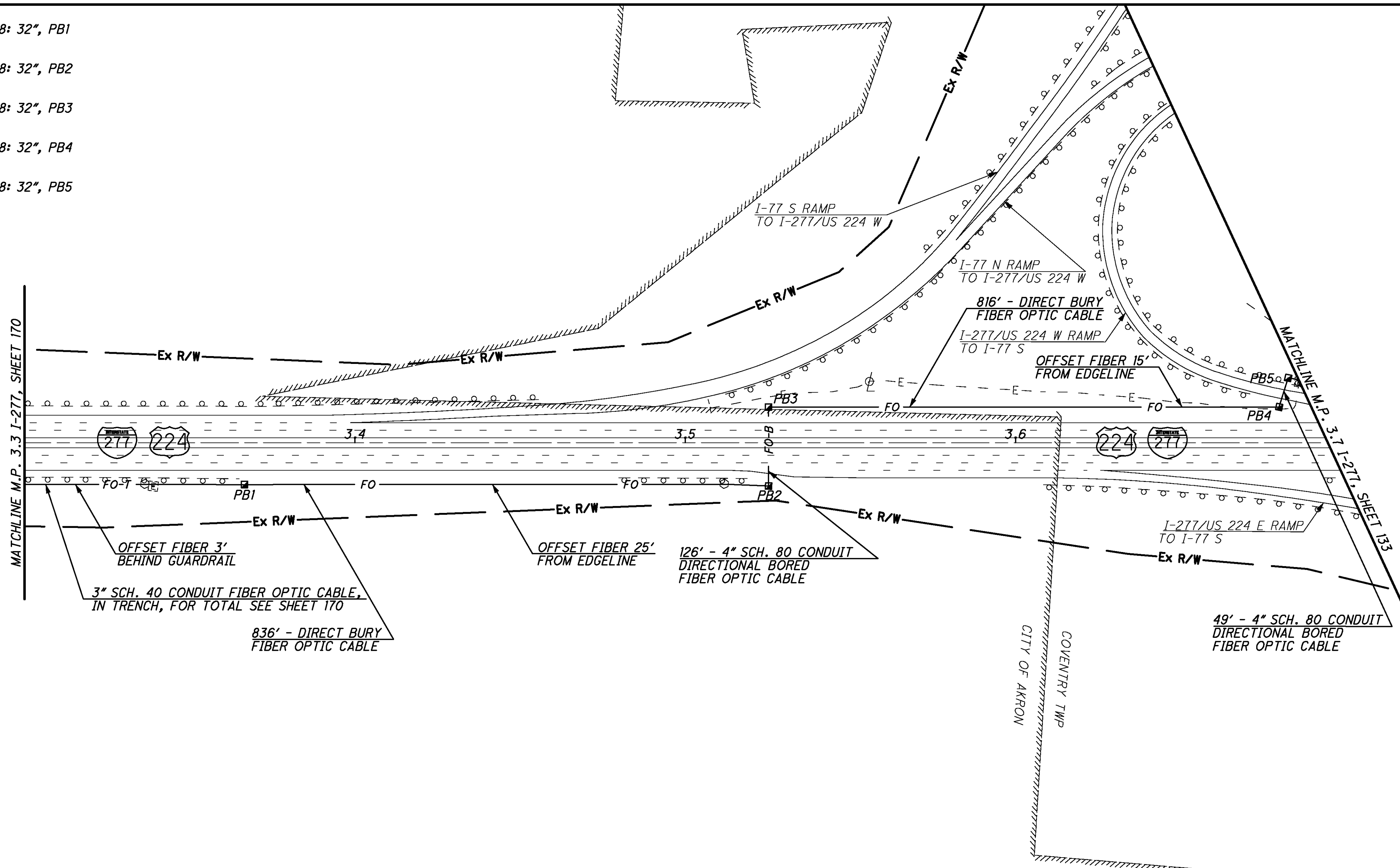
PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 3.37, 67' RT.

PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 3.52, 69' RT.

PROP. PULL BOX, 725.08: 32", PB3  
S.L.M. 3.52, 57' LT.

PROP. PULL BOX, 725.08: 32", PB4  
S.L.M. 3.68, 57' LT.

PROP. PULL BOX, 725.08: 32", PB5  
S.L.M. 3.68, 104' LT.



NO FIELD DEVICE ON THIS SHEET



CALCULATED STS  
CHECKED JDG

I-277 AT I-77 (MP 3.3 TO MP 3.7)  
CITY OF AKRON, SUMMIT COUNTY

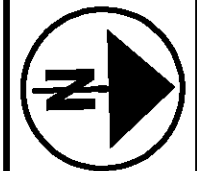
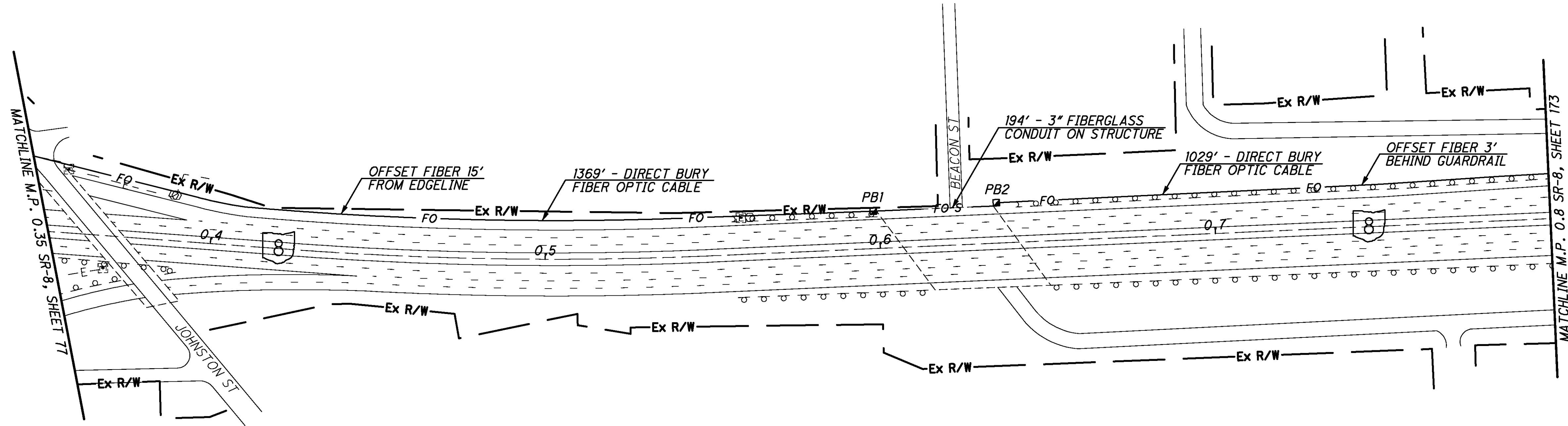
STA - SUM ITS

171  
390

j:\JOBS\42430\TECHPROD\13311\traffic\sheets\13311GP114.dgn 06-DEC-2007 3:48PM jshea

PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 0.60, 59' LT.

PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 0.64, 64' LT.



CALCULATED STS  
CHECKED JDG

SR-8 AT BEACON ST (MP 0.35 TO MP 0.8)  
CITY OF AKRON, SUMMIT COUNTY

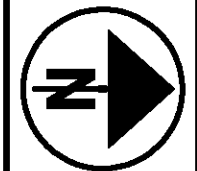
STA-SUM ITS

172  
390

REFER TO SHEET 13 FOR TYPICAL CONDUIT ATTACHED TO STRUCTURE DETAILS  
REFER TO SHEET 261 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR BRIDGE OVER BEACON STREET

NO FIELD DEVICE ON THIS SHEET

J:\JOBS\42430\TECHPROD\13311\traffic\sheets\13311GP115.dgn 06-DEC-2007 3:48PM jshca

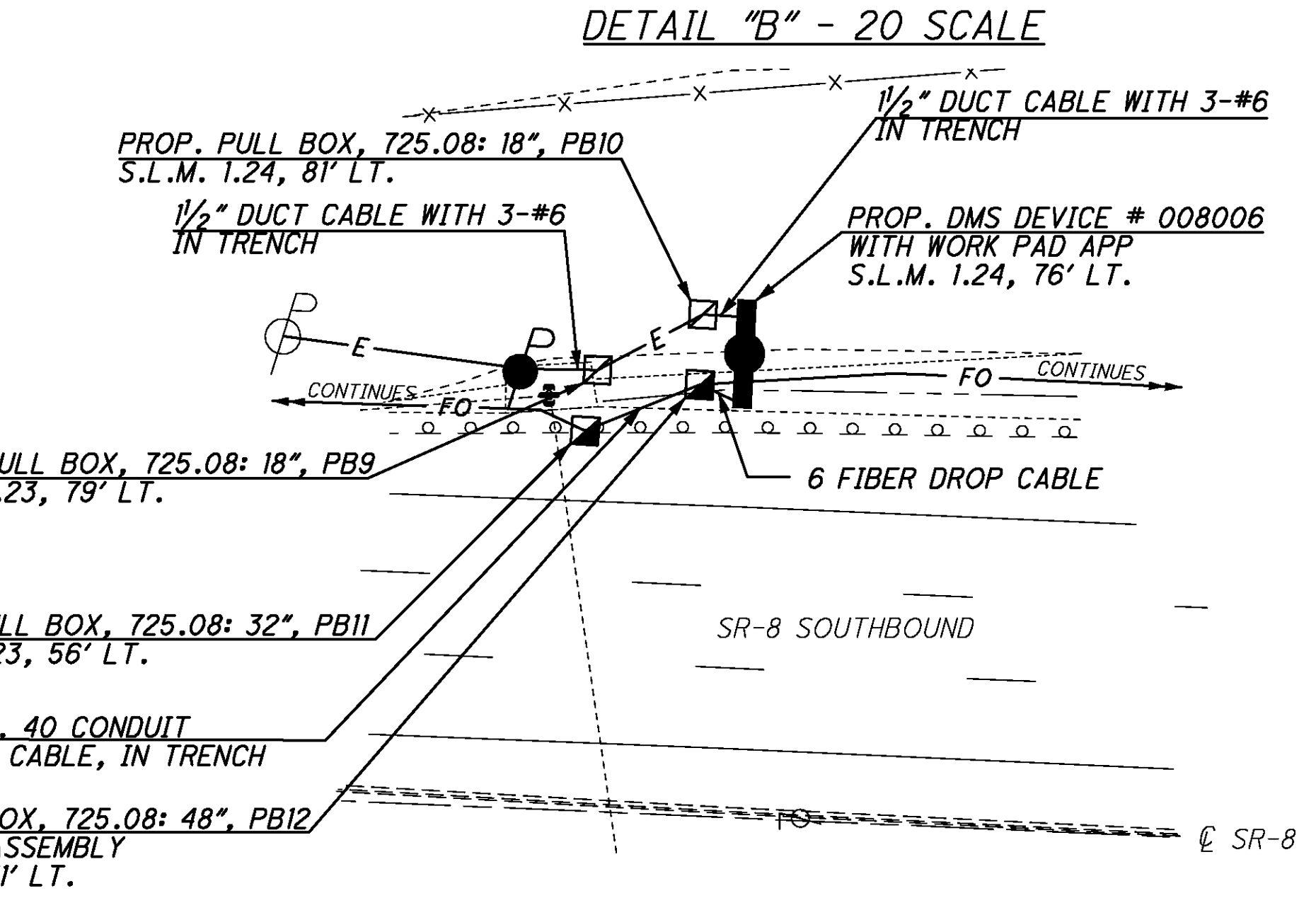
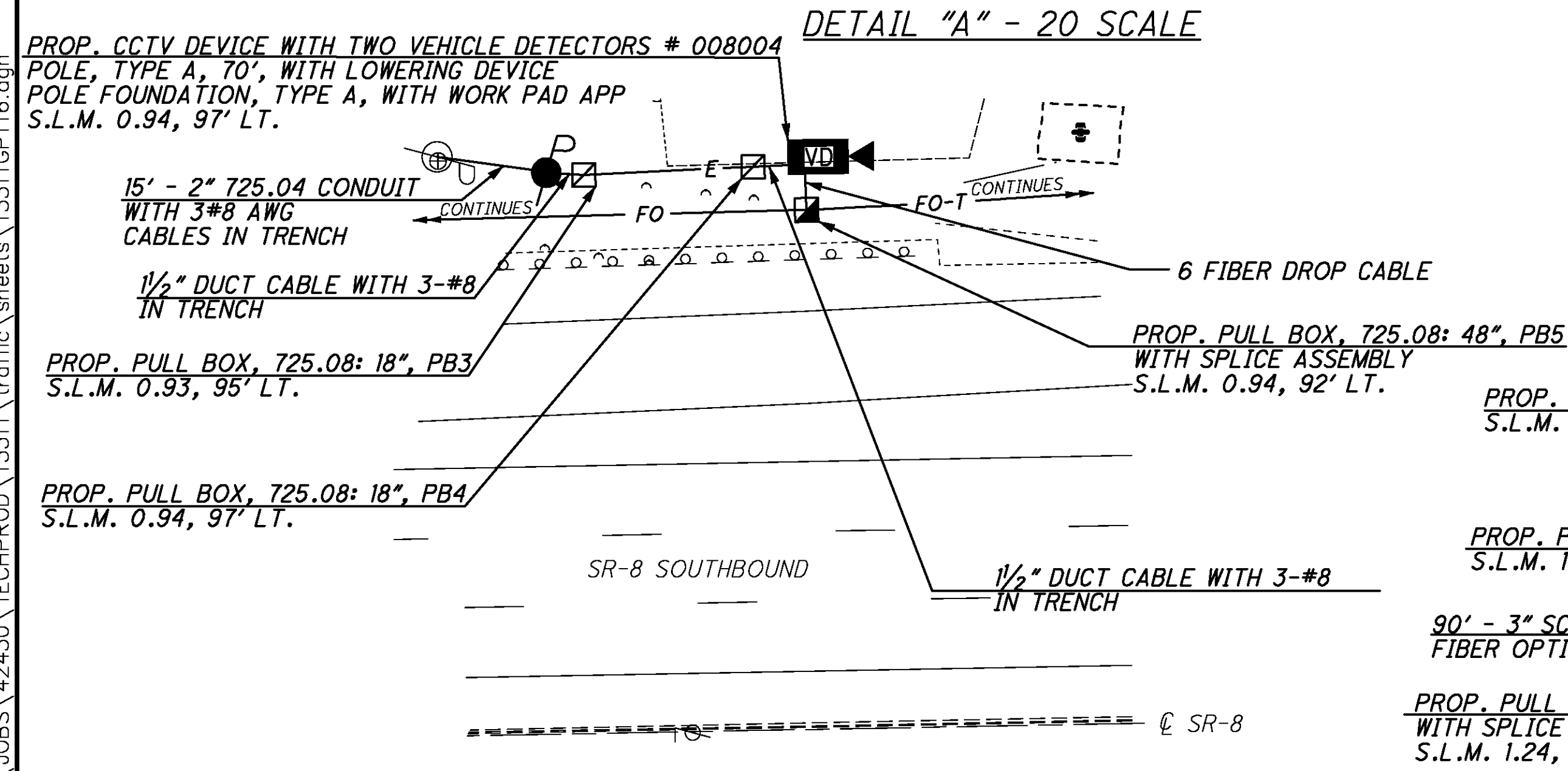
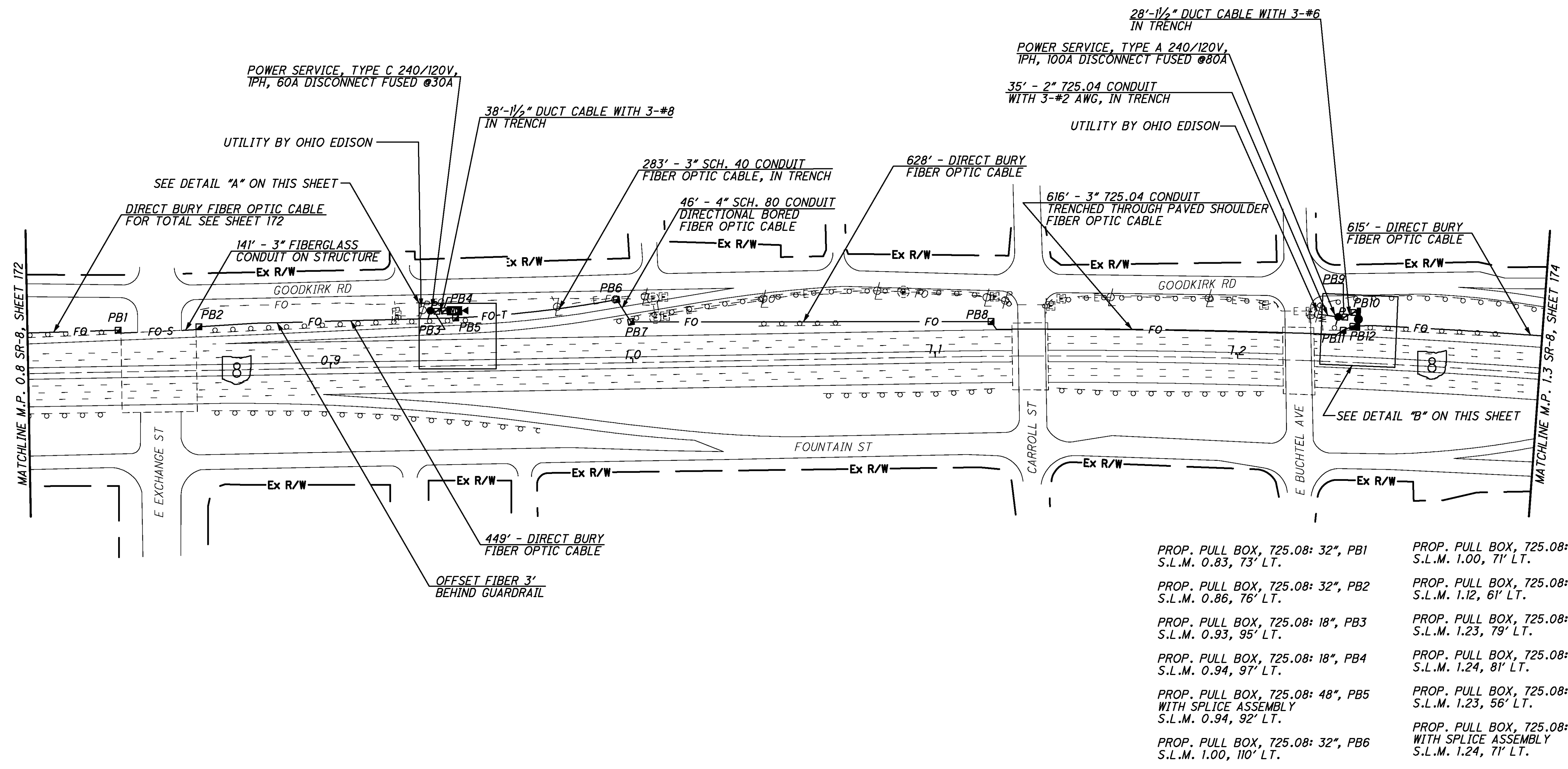


CALCULATED STS  
CHECKED JDG

SR-8 AT EXCHANGE ST (MP 0.8 TO MP 1.3)  
CITY OF AKRON, SUMMIT COUNTY

STA-SUM ITS

173  
390



REFER TO SHEET 13 FOR TYPICAL CONDUIT ATTACHED TO STRUCTURE DETAILS

REFER TO SHEET 14 FOR TRENCHING THROUGH PAVED SHOULDER DETAILS

REFER TO SHEET 24 FOR TYPICAL CCTV WITH TWO VEHICLE DETECTORS DETAILS

REFER TO SHEET 25 FOR TYPICAL DMS DETAILS

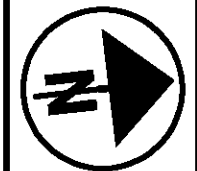
REFER TO SHEET 262 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR BRIDGE OVER EXCHANGE STREET

REFER TO SHEET 370 FOR CCTV DEVICE NO. 008004 COMMUNICATION DETAILS

REFER TO SHEET 371 FOR DMS DEVICE NO. 008006 COMMUNICATION DETAILS

CCTV 008004  
DMS 008006

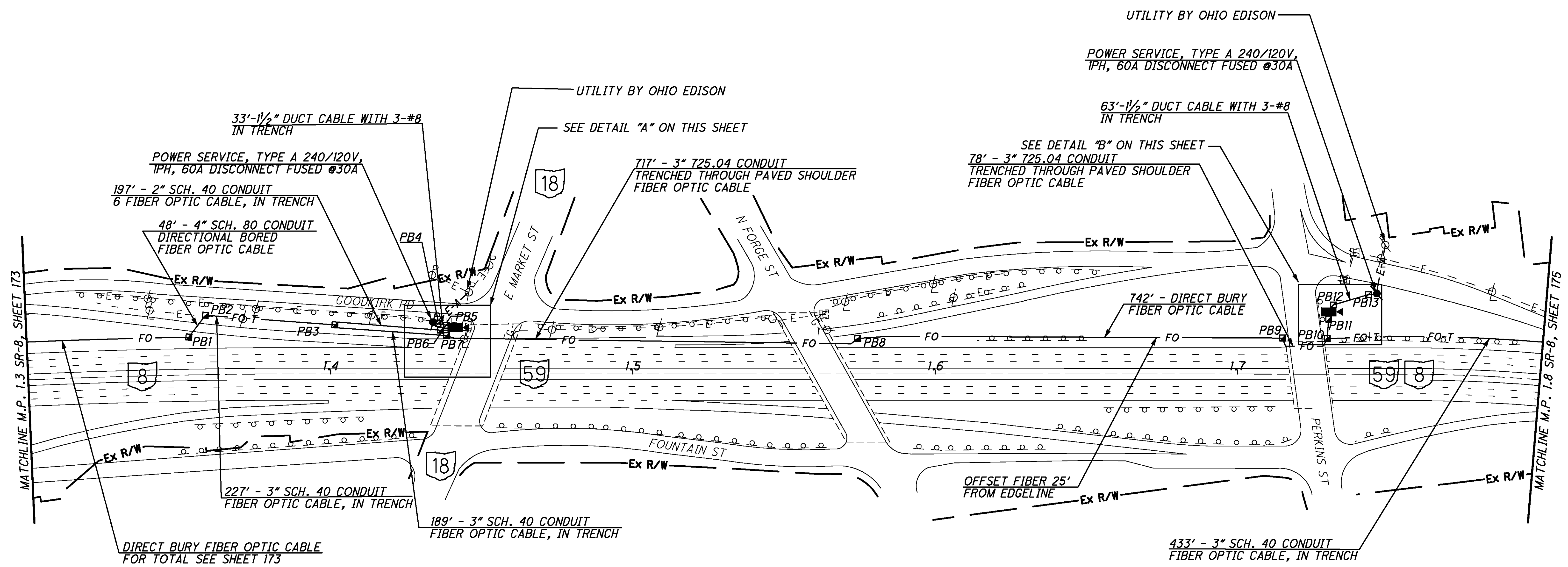
j:\JOBS\42430\TECHPROD\13311\traffic\sheets\13311GP116.dgn 06-DEC-2007 3:48PM jshna



CALCULATED STS CHECKED JDG

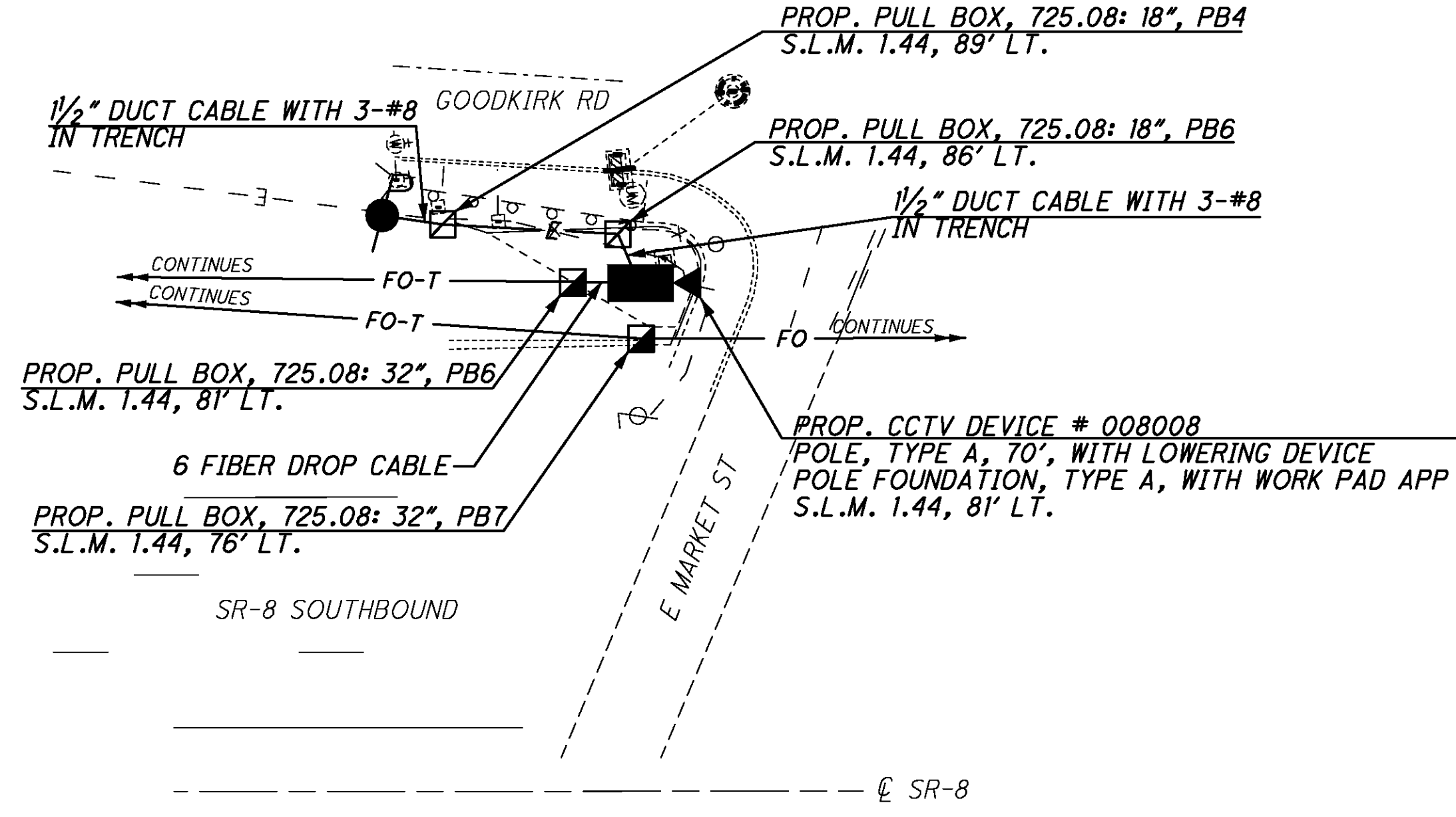
SR-8 AT MARKET ST (MP 1.3 TO MP 1.8)  
CITY OF AKRON, SUMMIT COUNTY

STA-SUM ITS

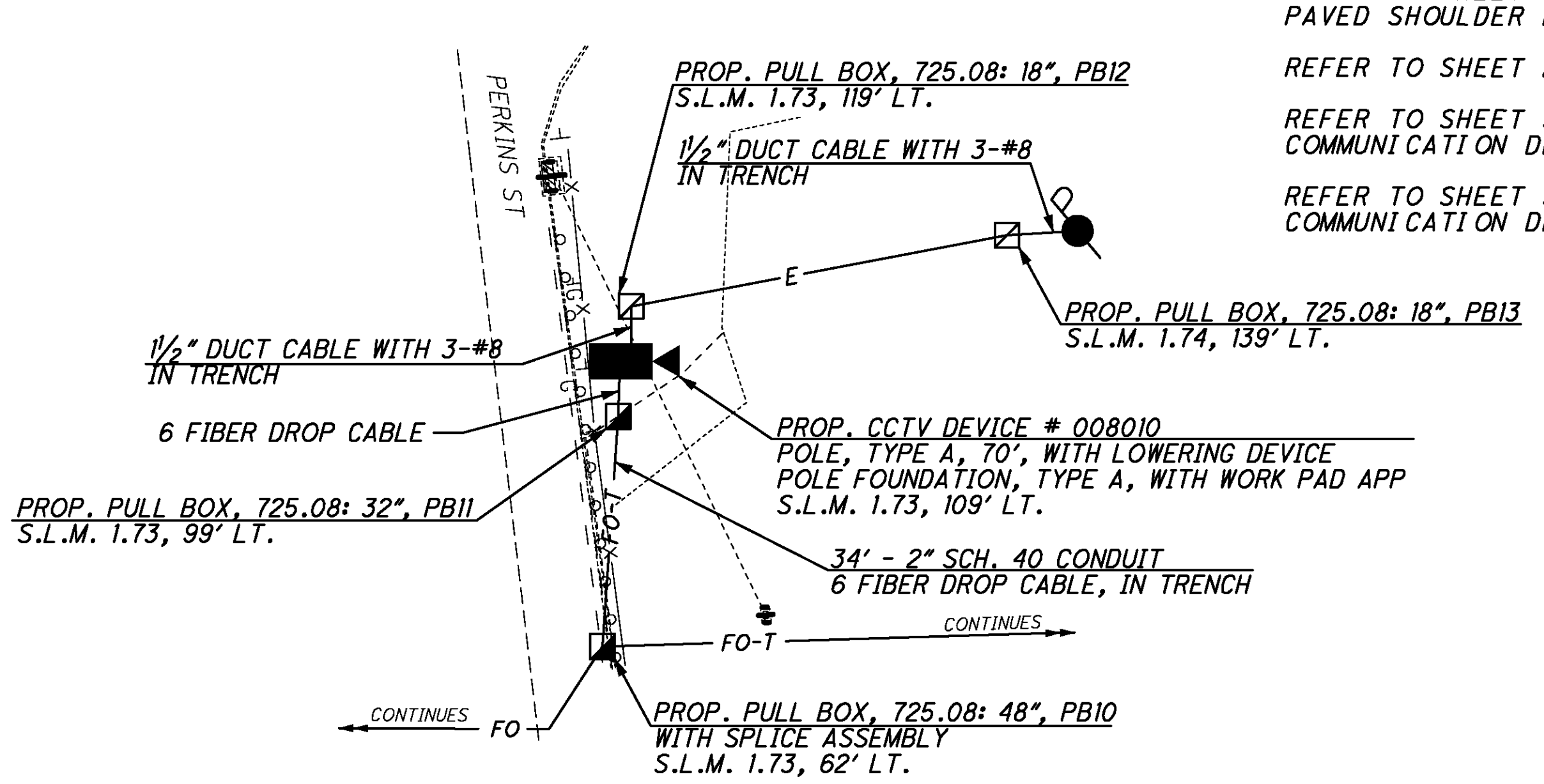


- PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 1.36, 66' LT.
- PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 1.36, 104' LT.
- PROP. PULL BOX, 725.08: 48", PB3  
WITH SPLICE ASSEMBLY  
S.L.M. 1.40, 84' LT.
- PROP. PULL BOX, 725.08: 18", PB4  
S.L.M. 1.44, 89' LT.
- PROP. PULL BOX, 725.08: 18", PB5  
S.L.M. 1.44, 86' LT.
- PROP. PULL BOX, 725.08: 32", PB6  
S.L.M. 1.44, 81' LT.
- PROP. PULL BOX, 725.08: 32", PB7  
S.L.M. 1.44, 76' LT.
- PROP. PULL BOX, 725.08: 32", PB8  
S.L.M. 1.57, 62' LT.
- PROP. PULL BOX, 725.08: 32", PB9  
S.L.M. 1.71, 63' LT.
- PROP. PULL BOX, 725.08: 48", PB10  
WITH SPLICE ASSEMBLY  
S.L.M. 1.73, 62' LT.
- PROP. PULL BOX, 725.08: 32", PB11  
S.L.M. 1.73, 99' LT.
- PROP. PULL BOX, 725.08: 18", PB12  
S.L.M. 1.73, 119' LT.
- PROP. PULL BOX, 725.08: 18", PB13  
S.L.M. 1.74, 139' LT.

DETAIL "A" - 20 SCALE



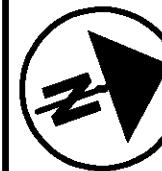
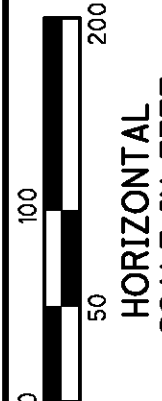
DETAIL "B" - 20 SCALE



REFER TO SHEET 14 FOR TRENCHING THROUGH PAVED SHOULDER DETAILS  
 REFER TO SHEET 23 FOR TYPICAL CCTV DETAILS  
 REFER TO SHEET 372 FOR CCTV DEVICE NO. 008008 COMMUNICATION DETAILS  
 REFER TO SHEET 373 FOR CCTV DEVICE NO. 008010 COMMUNICATION DETAILS

CCTV 008008  
CCTV 008010

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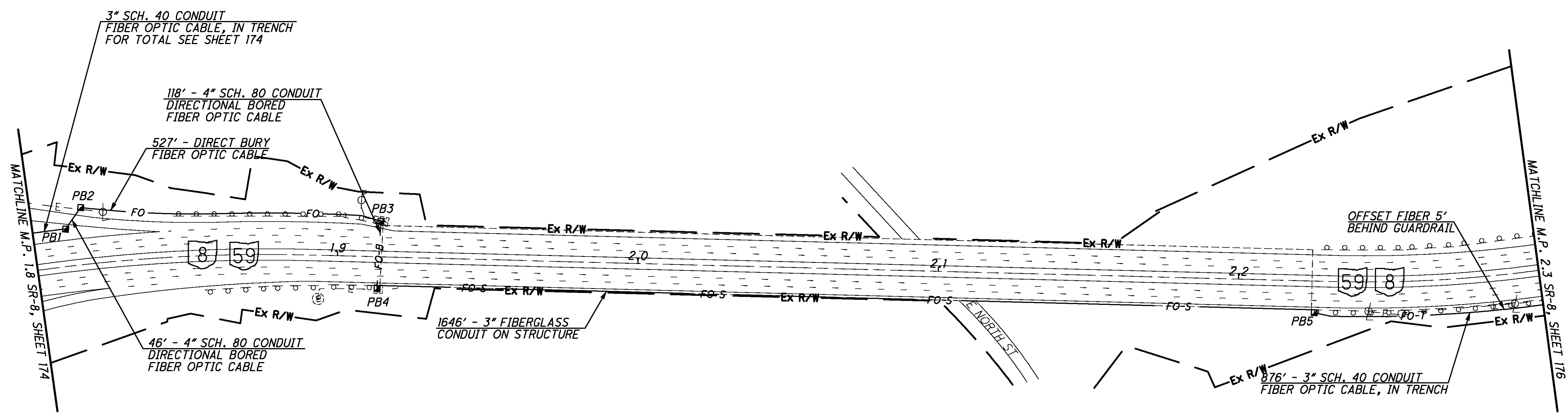

  

  
 HORIZONTAL SCALE IN FEET

CALCULATED STS  
 CHECKED JDG

**SR-8 AT NORTH ST (MP 1.8 TO MP 2.3)**  
**CITY OF AKRON, SUMMIT COUNTY**

**STA-SUM ITS**

175  
 390



- PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 1.81, 66' LT.
- PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 1.82, 100' LT.
- PROP. PULL BOX, 725.08: 32", PB3  
S.L.M. 1.91, 62' LT.
- PROP. PULL BOX, 725.08: 32", PB4  
S.L.M. 1.91, 56' RT.
- PROP. PULL BOX, 725.08: 32", PB5  
S.L.M. 2.23, 56' RT.

REFER TO SHEET 13 FOR TYPICAL CONDUIT ATTACHED TO STRUCTURE DETAILS  
 REFER TO SHEET 263 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR STATE ROUTE 8 MAIN VIADUCT

**NO FIELD DEVICE ON THIS SHEET**

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PROP. PULL BOX, 725.08: 18", PB1  
S.L.M. 2.38, 67' RT.

PROP. PULL BOX, 725.08: 48", PB2  
WITH SPLICE ASSEMBLY  
S.L.M. 2.38, 62' RT.

PROP. PULL BOX, 725.08: 18", PB3  
S.L.M. 2.42, 73' RT.

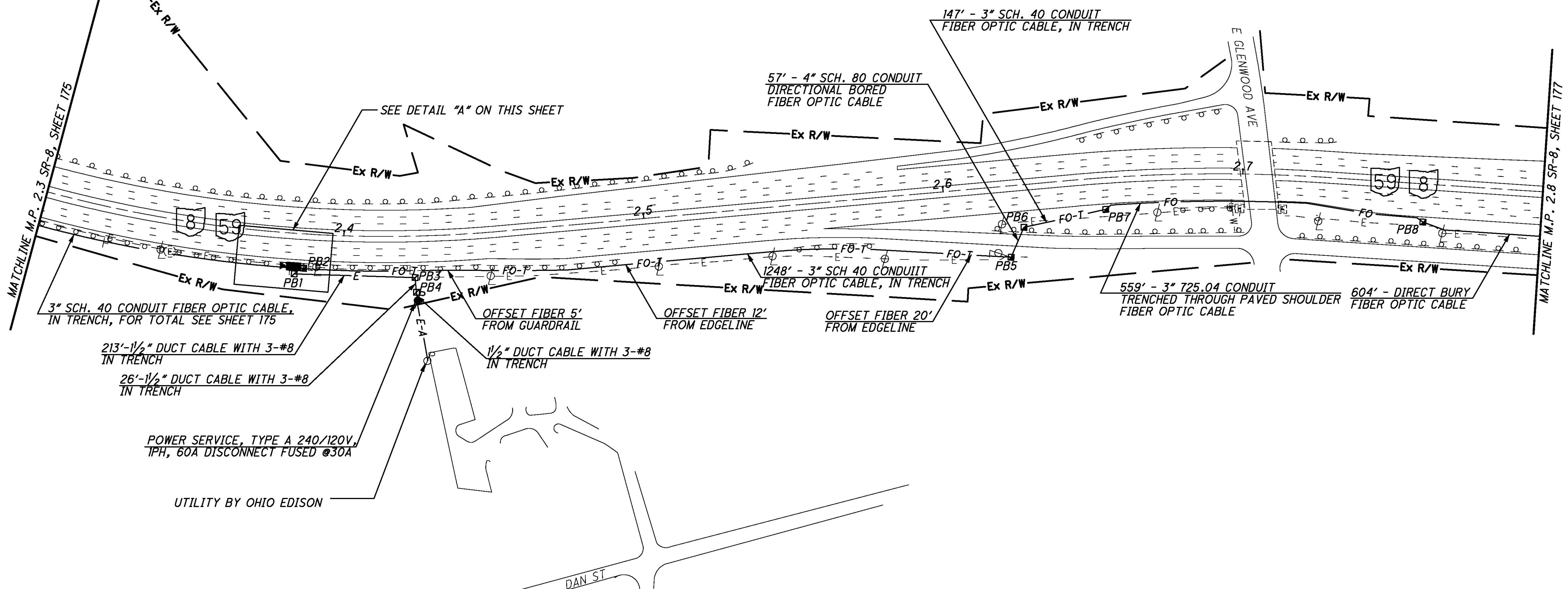
PROP. PULL BOX, 725.08: 18", PB4  
S.L.M. 2.42, 99' RT.

PROP. PULL BOX, 725.08: 32", PB5  
S.L.M. 2.62, 125' RT.

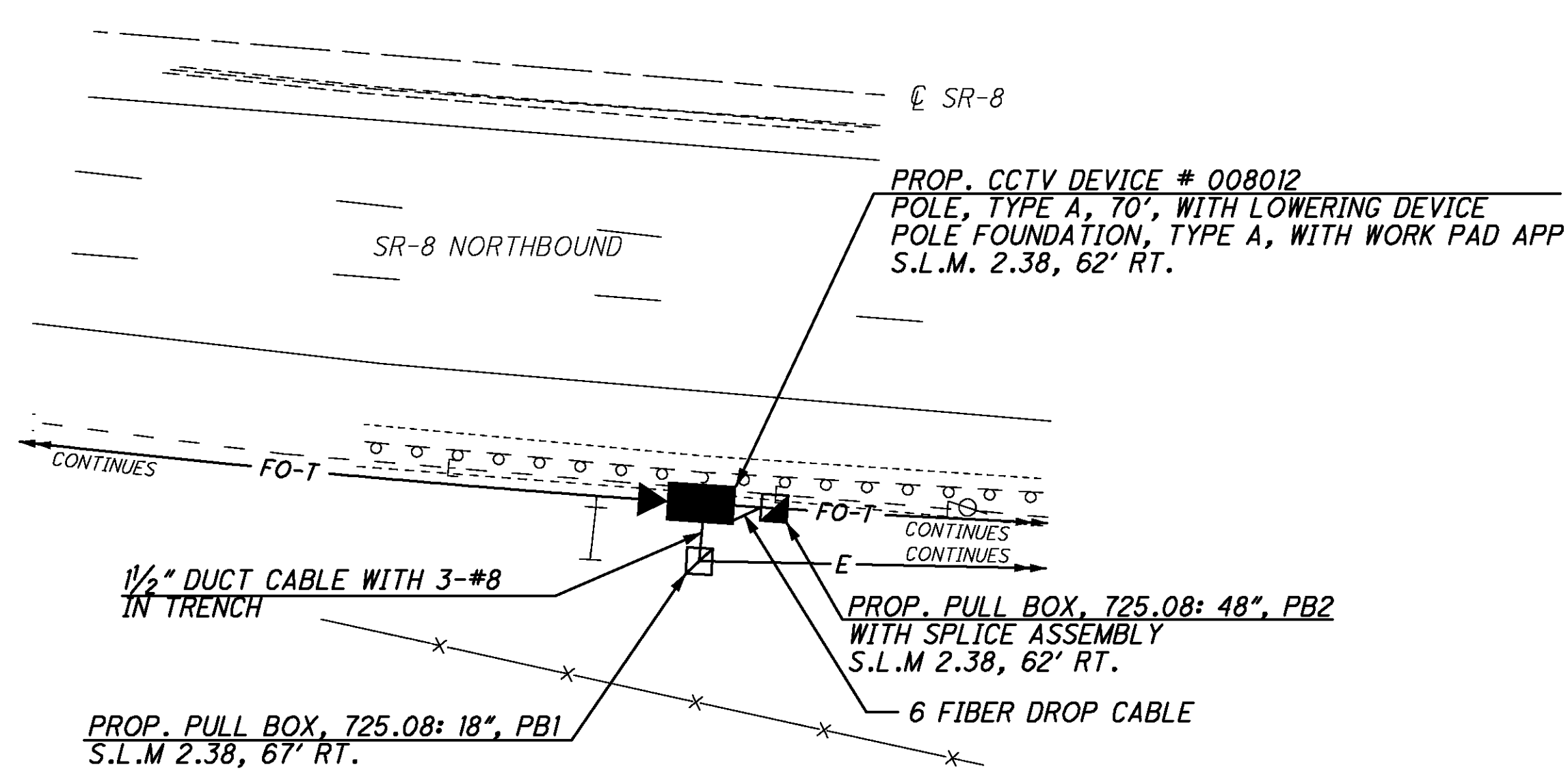
PROP. PULL BOX, 725.08: 32", PB6  
S.L.M. 2.62, 75' RT.

PROP. PULL BOX, 725.08: 32", PB7  
S.L.M. 2.65, 56' RT.

PROP. PULL BOX, 725.08: 32", PB8  
S.L.M. 2.76, 67' RT.



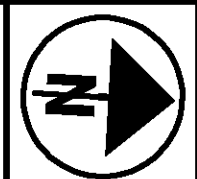
DETAIL "A" - 20 SCALE



REFER TO SHEET 14 FOR TRENCHING THROUGH  
PAVED SHOULDER DETAIL

REFER TO SHEET 23 FOR TYPICAL CCTV DETAILS

REFER TO SHEET 374 FOR COMMUNICATION DETAILS



CALCULATED STS  
CHECKED JDG

SR-8 AT CLENWOOD AVE (MP 2.3 TO MP 2.8)  
CITY OF AKRON, SUMMIT COUNTY

STA-SUM ITS

176  
390

CCTV 008012

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PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 2.88, 97' RT.

PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 2.88, 59' RT.

PROP. PULL BOX, 725.08: 32", PB3  
S.L.M. 2.99, 81' RT.

PROP. PULL BOX, 725.08: 18", PB4  
S.L.M. 3.01, 86' RT.

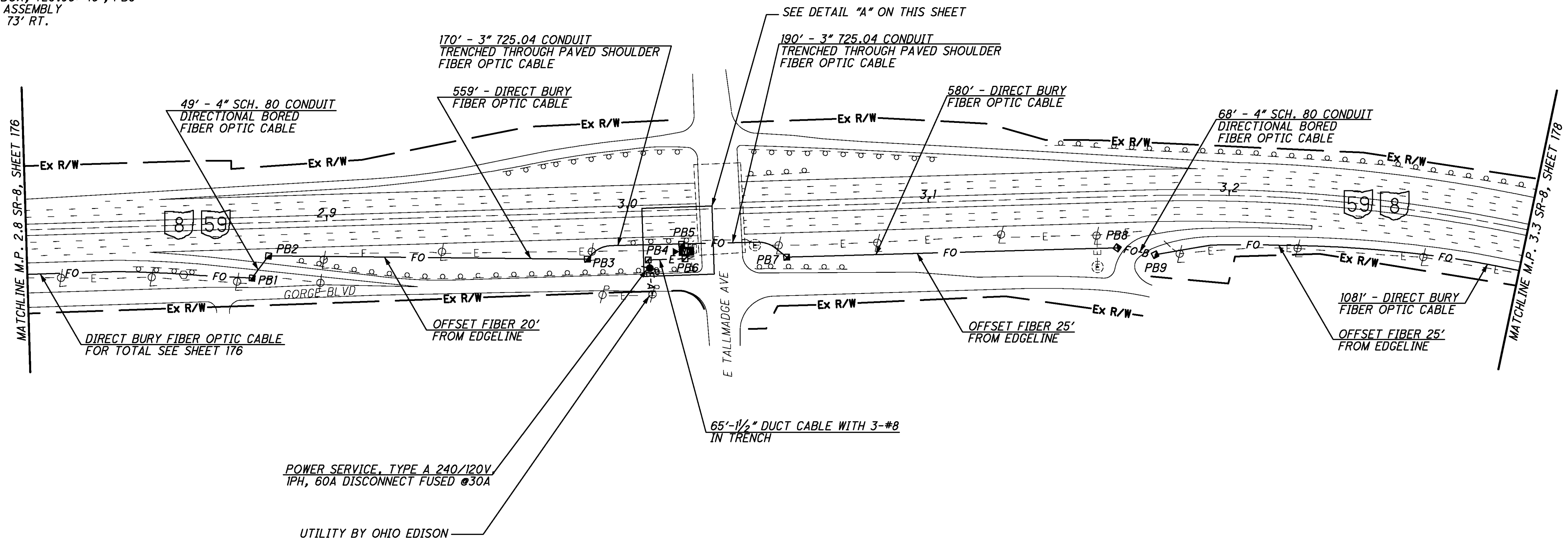
PROP. PULL BOX, 725.08: 48", PB5  
WITH SPLICE ASSEMBLY  
S.L.M. 3.02, 73' RT.

PROP. PULL BOX, 725.08: 18", PB6  
S.L.M. 3.02, 83' RT.

PROP. PULL BOX, 725.08: 32", PB7  
S.L.M. 3.05, 89' RT.

PROP. PULL BOX, 725.08: 32", PB8  
S.L.M. 3.16, 90' RT.

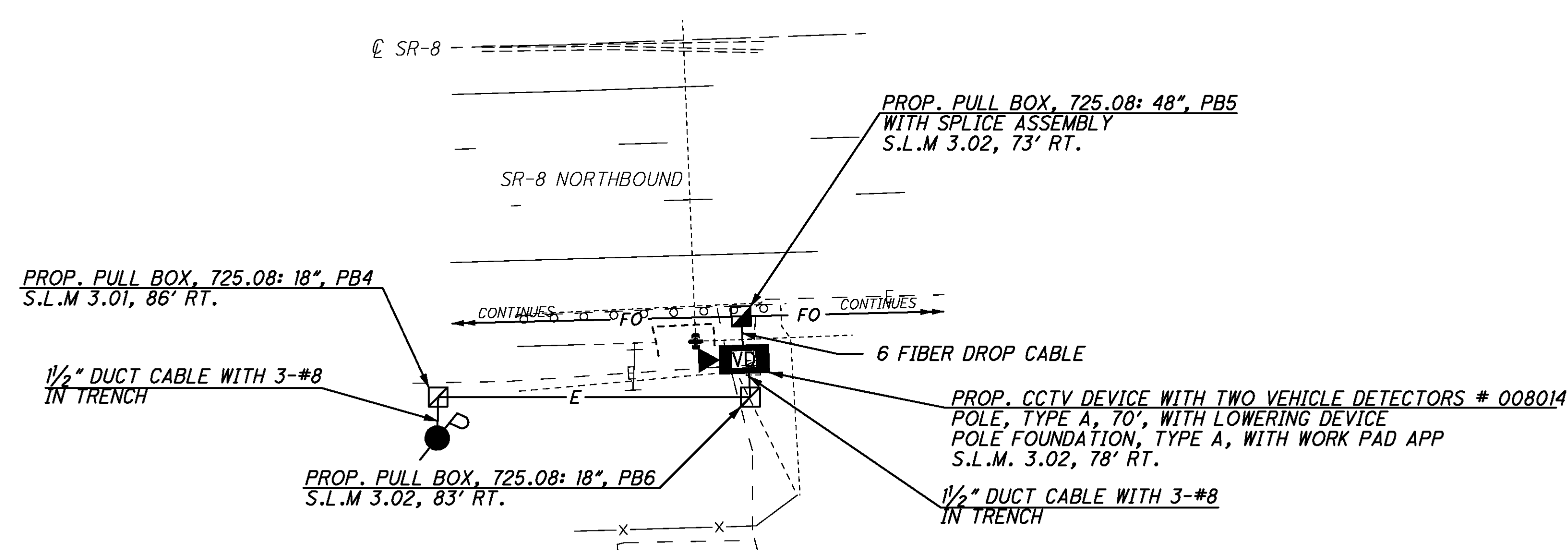
PROP. PULL BOX, 725.08: 32", PB9  
S.L.M. 3.17, 104' RT.



POWER SERVICE, TYPE A 240/120V  
1PH, 60A DISCONNECT FUSED @30A

UTILITY BY OHIO EDISON

DETAIL "A" - 20 SCALE



REFER TO SHEET 14 FOR TRENCHING THROUGH PAVED SHOULDER DETAILS

REFER TO SHEET 24 FOR TYPICAL CCTV WITH TWO VEHICLE DETECTORS DETAILS

REFER TO SHEET 375 FOR COMMUNICATION DETAILS

CALCULATED STS CHECKED JDG

0 50 100 200  
HORIZONTAL SCALE IN FEET

SR-8 AT TALLMADGE AVE (MP 2.8 TO MP 3.3)  
CITY OF AKRON, SUMMIT COUNTY

STA-SUM ITS

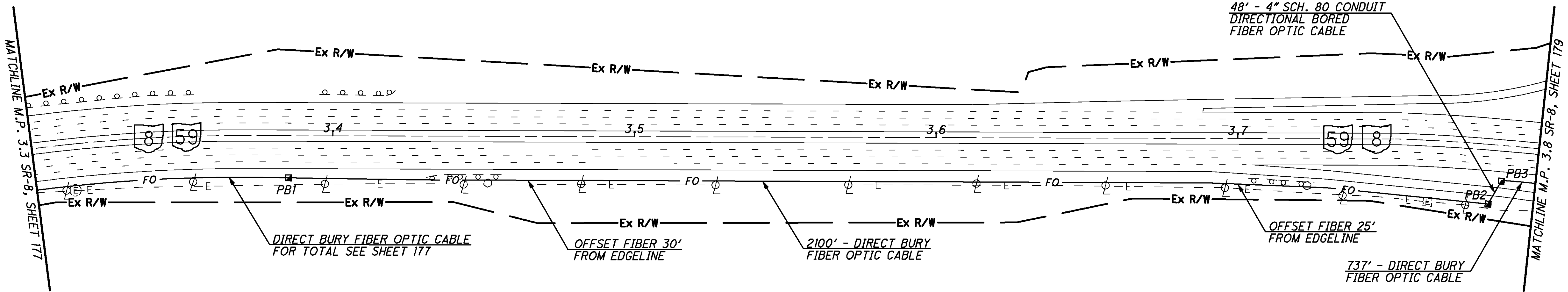
177  
390

J:\JOBS\42430\TECHPROD\13311\traffic\sheets\13311GP120.dgn 06-DEC-2007 3:49PM jsnea

PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 3.39, 74' RT.

PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 3.79, 104' RT.

PROP. PULL BOX, 725.08: 32", PB3  
S.L.M. 3.79, 61' RT.



NO FIELD DEVICE ON THIS SHEET



CALCULATED  
STS  
CHECKED  
JDG

SR-8 AT TALLMADGE AVE (MP 3.3 TO MP 3.8)  
CITY OF AKRON, SUMMIT COUNTY

STA-SUM ITS

178  
390

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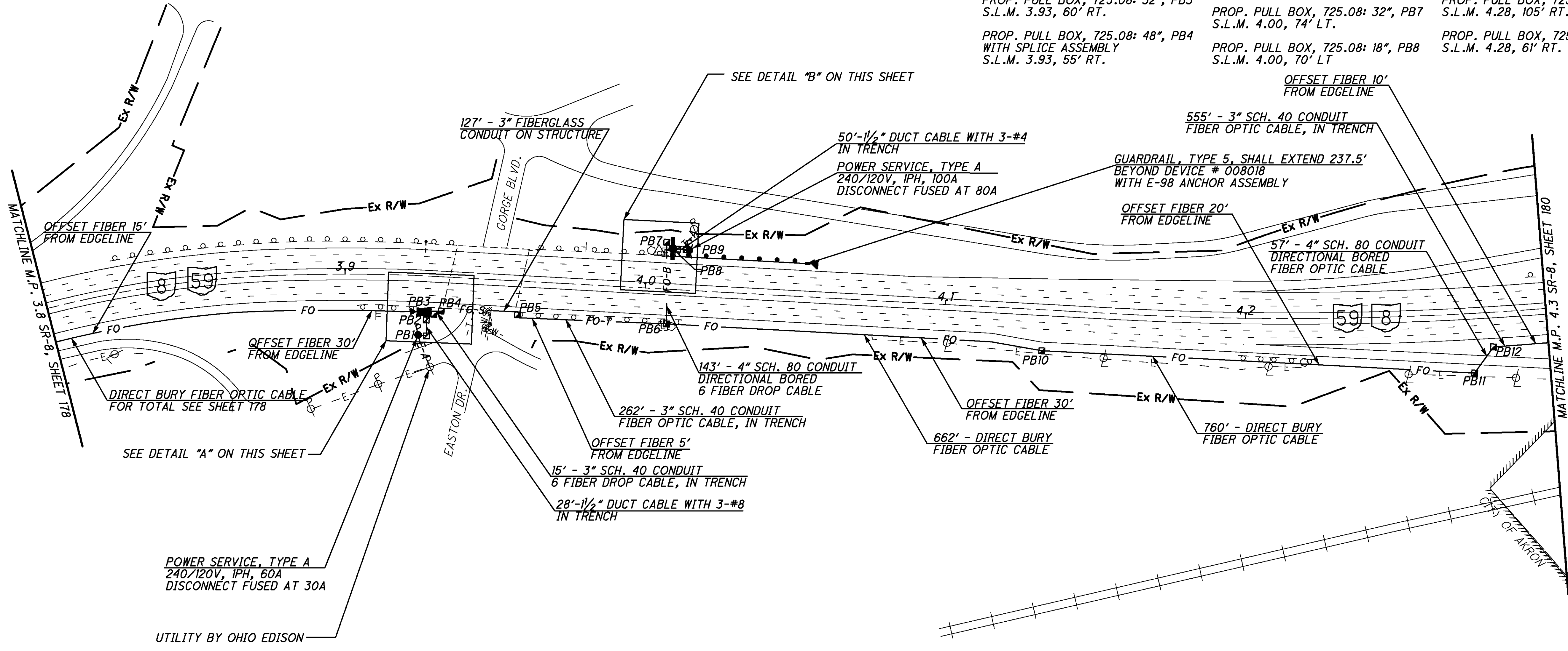
CALCULATED STS CHECKED JDG

SR-8 AT EASTON DR (MP 3.8 TO MP 4.3)  
CITY OF AKRON, SUMMIT COUNTY

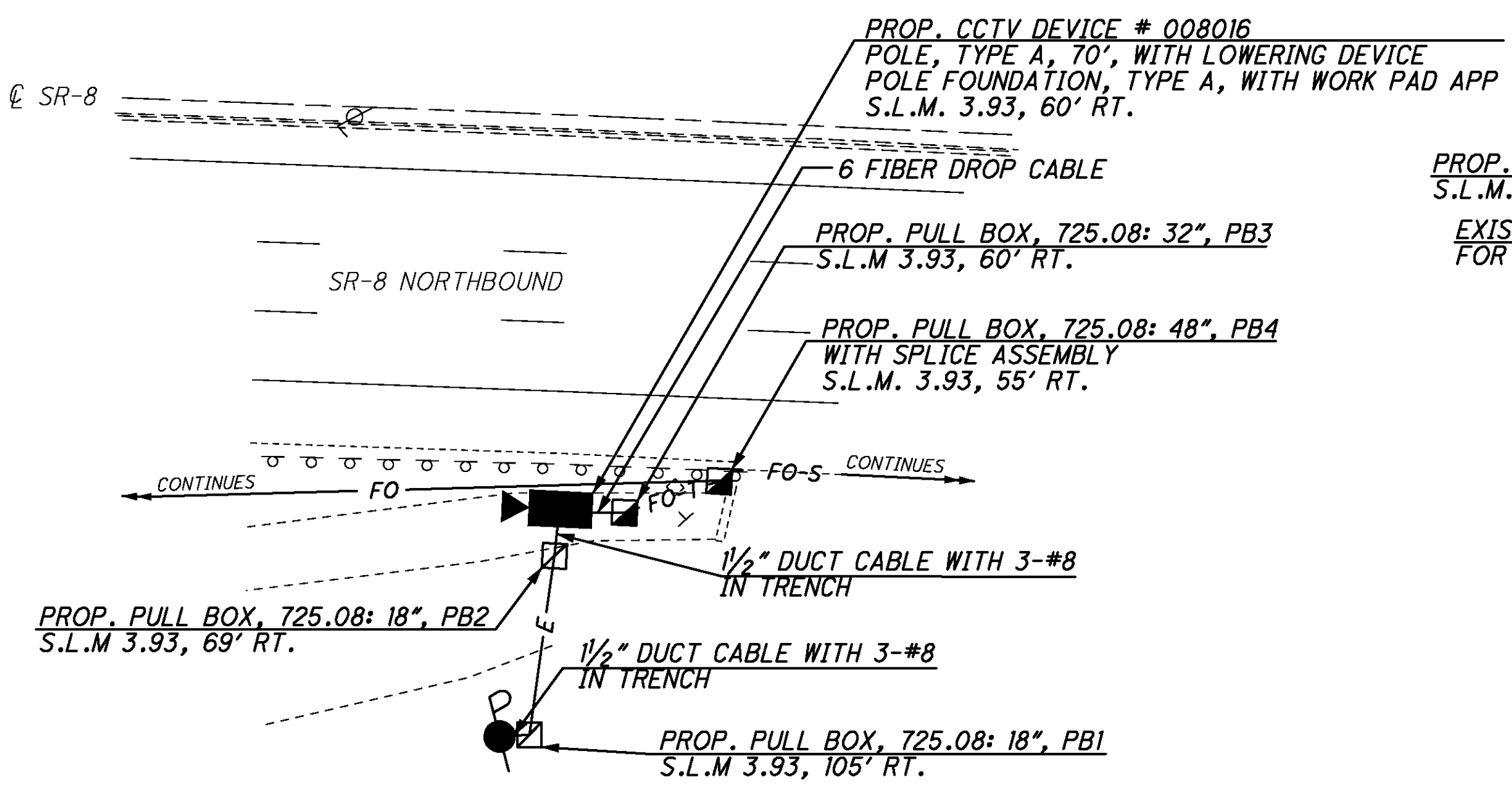
STA-SUM ITS

179  
390

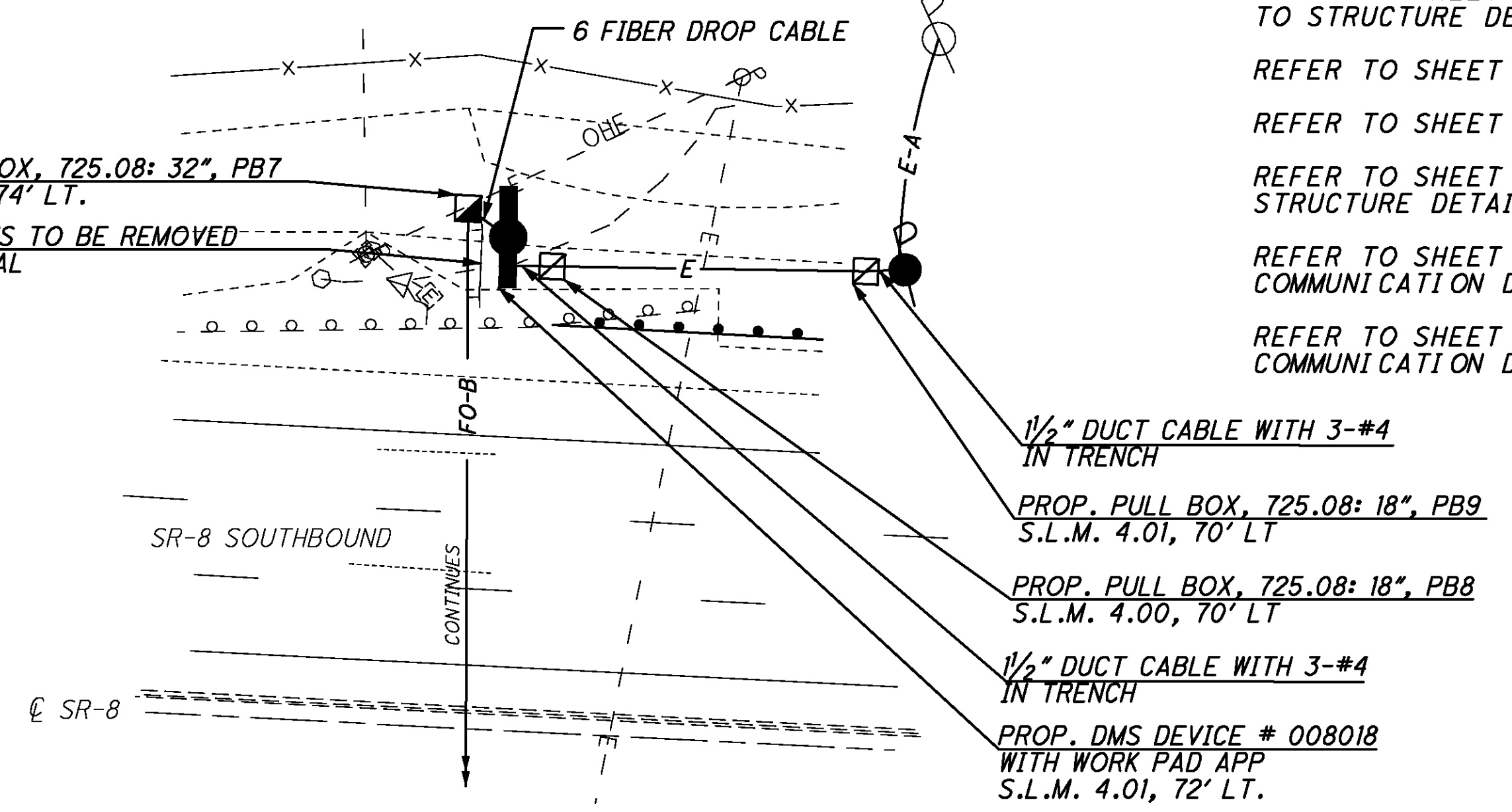
- PROP. PULL BOX, 725.08: 18", PB1 S.L.M. 3.93, 105' RT.
- PROP. PULL BOX, 725.08: 18", PB2 S.L.M. 3.93, 69' RT.
- PROP. PULL BOX, 725.08: 32", PB3 S.L.M. 3.93, 60' RT.
- PROP. PULL BOX, 725.08: 48", PB4 WITH SPLICE ASSEMBLY S.L.M. 3.93, 55' RT.
- PROP. PULL BOX, 725.08: 32", PB5 S.L.M. 3.96, 60' RT.
- PROP. PULL BOX, 725.08: 48", PB6 WITH SPLICE ASSEMBLY S.L.M. 4.01, 60' RT.
- PROP. PULL BOX, 725.08: 32", PB7 S.L.M. 4.00, 74' LT.
- PROP. PULL BOX, 725.08: 18", PB8 S.L.M. 4.00, 70' LT.
- PROP. PULL BOX, 725.08: 18", PB9 S.L.M. 4.01, 70' LT.
- PROP. PULL BOX, 725.08: 32", PB10 S.L.M. 4.13, 72' RT.
- PROP. PULL BOX, 725.08: 32", PB11 S.L.M. 4.28, 105' RT.
- PROP. PULL BOX, 725.08: 32", PB12 S.L.M. 4.28, 61' RT.



DETAIL "A" - 20 SCALE



DETAIL "B" - 20 SCALE

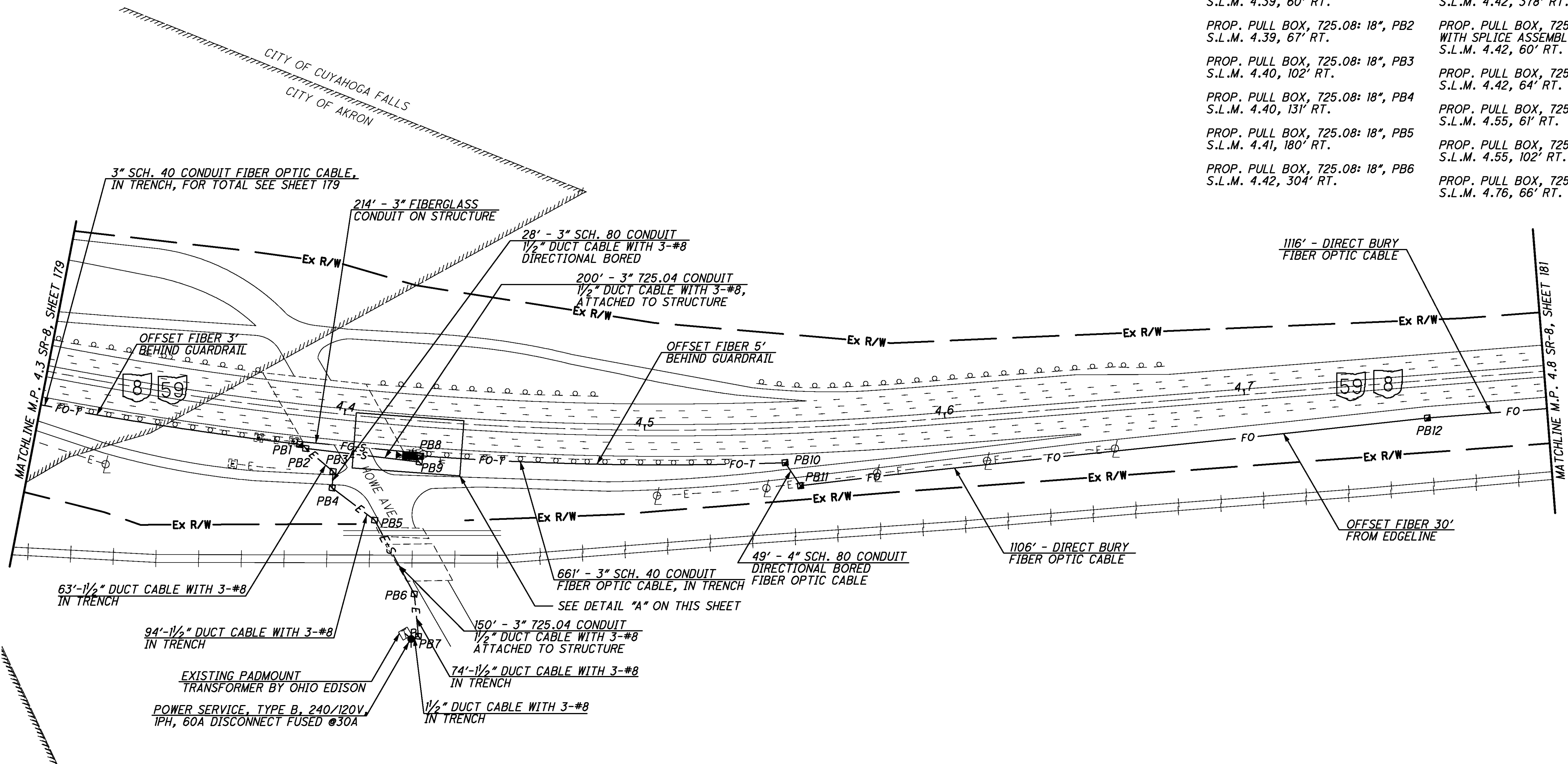


REFER TO SHEET 13 FOR TYPICAL CONDUIT ATTACHED TO STRUCTURE DETAILS  
 REFER TO SHEET 23 FOR TYPICAL CCTV DETAILS  
 REFER TO SHEET 25 FOR TYPICAL DMS DETAILS  
 REFER TO SHEET 264 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR BRIDGE OVER GORGE BLVD.  
 REFER TO SHEET 376 FOR CCTV DEVICE NO. 008016 COMMUNICATION DETAILS  
 REFER TO SHEET 377 FOR DMS DEVICE NO. 008018 COMMUNICATION DETAILS

CCTV 008016  
DMS 008018

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- PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 4.39, 60' RT.
- PROP. PULL BOX, 725.08: 18", PB2  
S.L.M. 4.39, 67' RT.
- PROP. PULL BOX, 725.08: 18", PB3  
S.L.M. 4.40, 102' RT.
- PROP. PULL BOX, 725.08: 18", PB4  
S.L.M. 4.40, 131' RT.
- PROP. PULL BOX, 725.08: 18", PB5  
S.L.M. 4.41, 180' RT.
- PROP. PULL BOX, 725.08: 18", PB6  
S.L.M. 4.42, 304' RT.
- PROP. PULL BOX, 725.08: 18", PB7  
S.L.M. 4.42, 378' RT.
- PROP. PULL BOX, 725.08: 48", PB8  
WITH SPLICE ASSEMBLY  
S.L.M. 4.42, 60' RT.
- PROP. PULL BOX, 725.08: 18", PB9  
S.L.M. 4.42, 64' RT.
- PROP. PULL BOX, 725.08: 32", PB10  
S.L.M. 4.55, 61' RT.
- PROP. PULL BOX, 725.08: 32", PB11  
S.L.M. 4.55, 102' RT.
- PROP. PULL BOX, 725.08: 32", PB12  
S.L.M. 4.76, 66' RT.

CITY OF CUYAHOGA FALLS  
CITY OF AKRON

0 50 100 200  
HORIZONTAL SCALE IN FEET

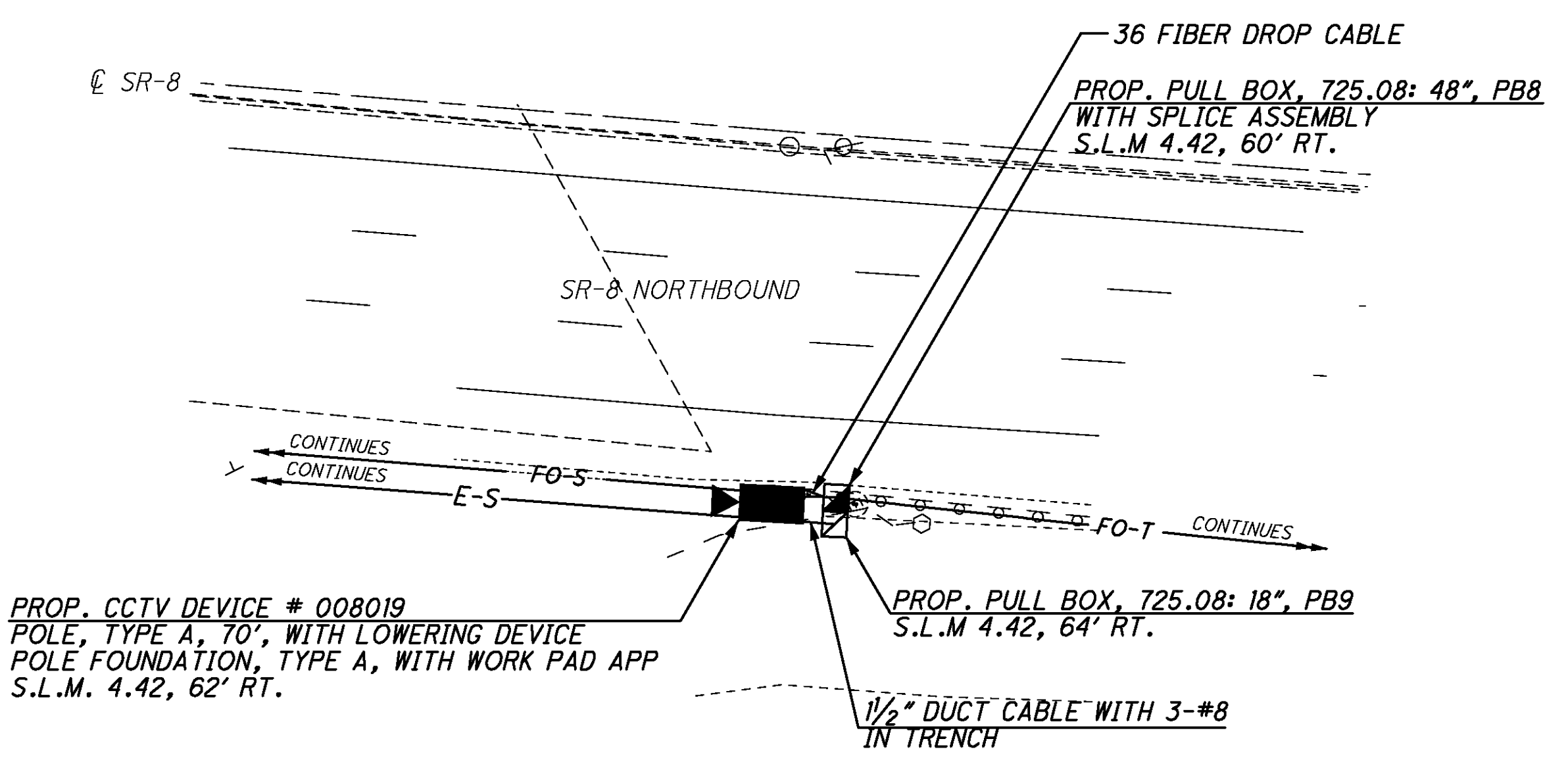
CALCULATED STS  
CHECKED JDG

SR-8 AT HOWE AVE (MP 4.3 TO MP 4.8)  
CITY OF CUYAHOGA FALLS, SUMMIT COUNTY

STA-SUM ITS

180  
390

DETAIL "A" - 20 SCALE



REFER TO SHEET 13 FOR TYPICAL CONDUIT ATTACHED TO STRUCTURE DETAILS

REFER TO SHEET 23 FOR TYPICAL CCTV DETAILS

REFER TO SHEET 265 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR BRIDGE OVER HOWE AVENUE

REFER TO SHEETS 378-380 FOR COMMUNICATION DETAILS

CCTV 008019



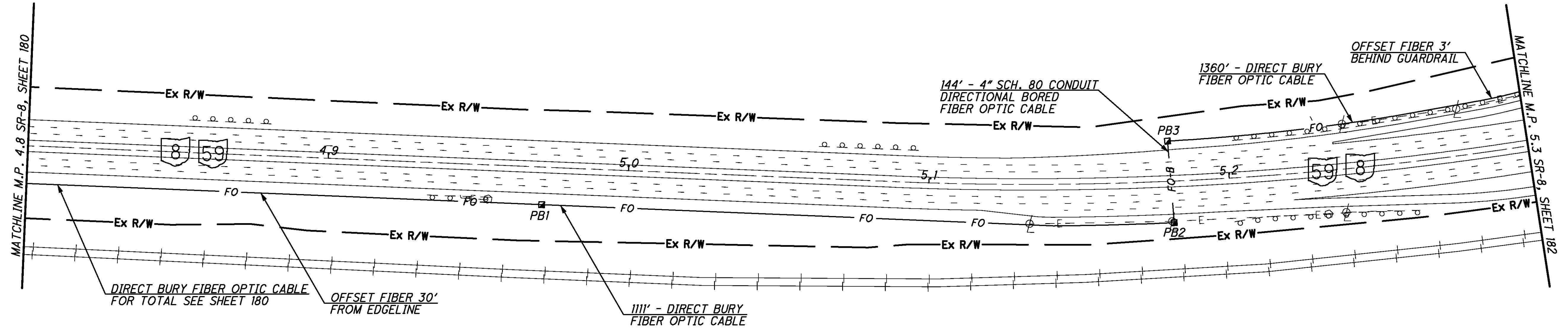
PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 4.97, 66' RT.

PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 5.18, 73' RT.

PROP. PULL BOX, 725.08: 32", PB3  
S.L.M. 5.18, 71' LT.



CALCULATED STS  
CHECKED JDG



NO FIELD DEVICE ON THIS SHEET

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SR-8 AT BROAD BLVD (MP 4.8 TO MP 5.3)  
CITY OF CUYAHOGA FALLS, SUMMIT COUNTY

STA-SUM ITS

181  
390

PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 5.44, 150' LT.

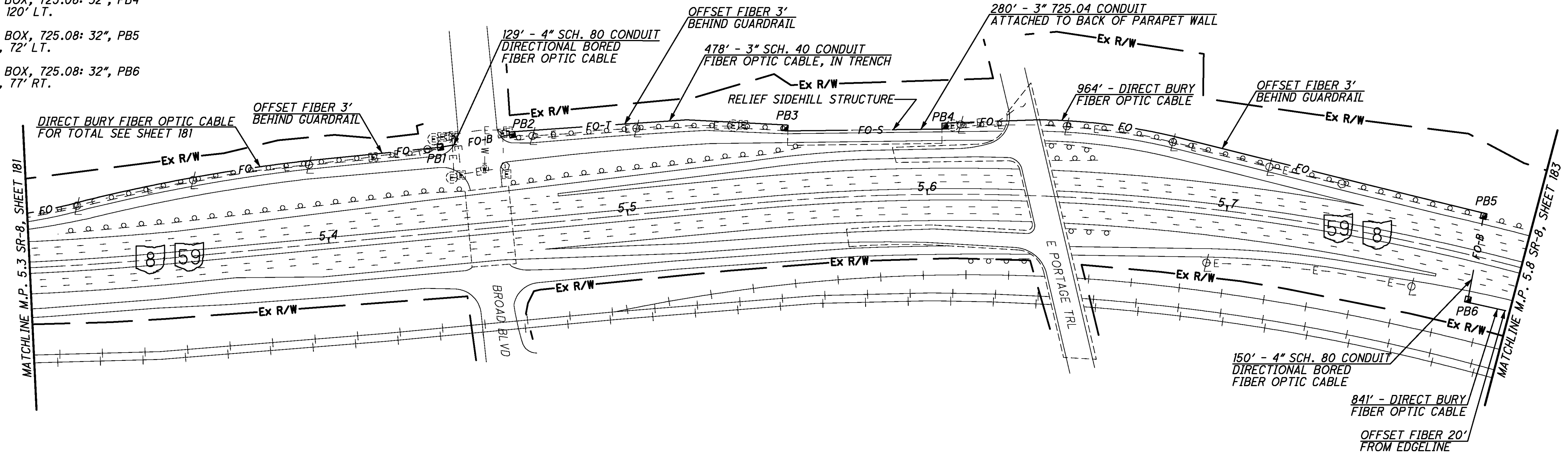
PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 5.46, 160' LT.

PROP. PULL BOX, 725.08: 32", PB3  
S.L.M. 5.55, 128' LT.

PROP. PULL BOX, 725.08: 32", PB4  
S.L.M. 5.61, 120' LT.

PROP. PULL BOX, 725.08: 32", PB5  
S.L.M. 5.78, 72' LT.

PROP. PULL BOX, 725.08: 32", PB6  
S.L.M. 5.78, 77' RT.



REFER TO SHEET 13 FOR TYPICAL CONDUIT ATTACHED TO STRUCTURE DETAILS  
 REFER TO SHEET 266 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR RELIEF SIDEHILL STRUCTURE

NO FIELD DEVICE ON THIS SHEET



CALCULATED STS  
 CHECKED JDG

SR-8 AT BROAD BLVD (MP 5.3 TO MP 5.8)  
 CITY OF CUYAHOGA FALLS, SUMMIT COUNTY

STA-SUM ITS

PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 5.94, 68' RT.

PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 5.97, 70' RT.

PROP. PULL BOX, 725.08: 32", PB3  
S.L.M. 6.09, 95' RT.

PROP. PULL BOX, 725.08: 32", PB4  
S.L.M. 6.09, 55' RT.

PROP. PULL BOX, 725.08: 32", PB5  
S.L.M. 6.17, 100' RT.

PROP. PULL BOX, 725.08: 18", PB6  
S.L.M. 6.17, 95' RT.

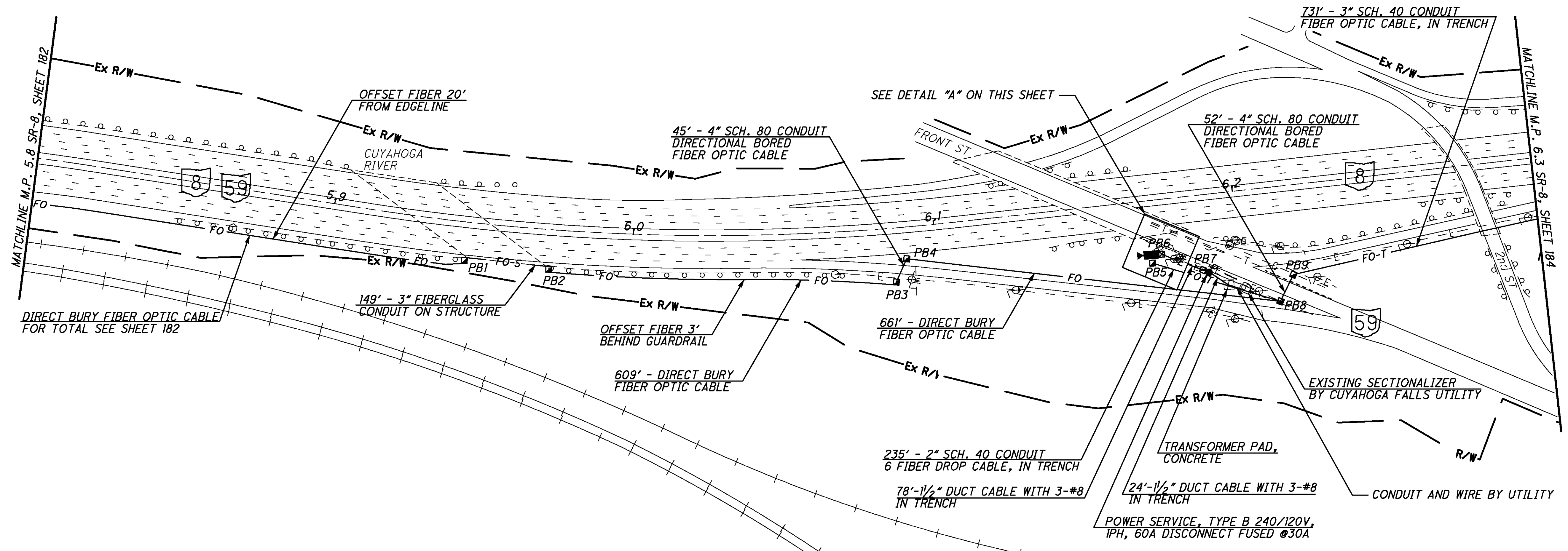
PROP. PULL BOX, 725.08: 18", PB7  
S.L.M. 6.19, 132' RT.

PROP. PULL BOX, 725.08: 48", PB8  
WITH SPLICE ASSEMBLY  
S.L.M. 6.21, 202' RT.

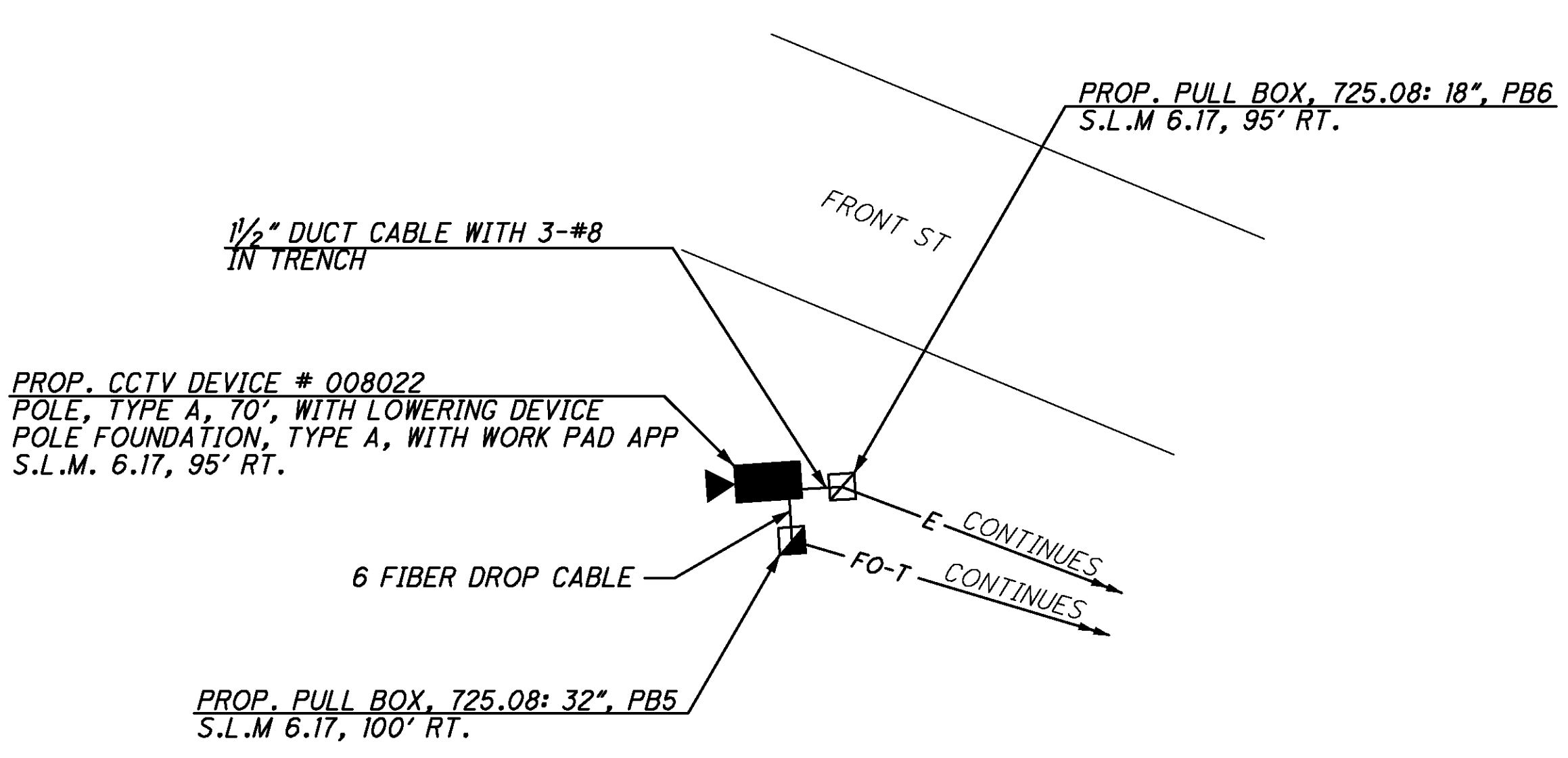
PROP. PULL BOX, 725.08: 32", PB9  
S.L.M. 6.21, 157' RT.

CALCULATED STS  
CHECKED JDG

0 50 100 200  
HORIZONTAL SCALE IN FEET



DETAIL "A" - 20 SCALE



REFER TO SHEET 13 FOR TYPICAL CONDUIT ATTACHED TO STRUCTURE DETAILS

REFER TO SHEET 23 FOR TYPICAL CCTV DETAILS

REFER TO SHEET 267 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR BRIDGE OVER CUYAHOGA RIVER

REFER TO SHEET 381 FOR COMMUNICATION DETAILS

SR-8 AT FRONT ST (MP 5.8 TO MP 6.3)  
CITY OF CUYAHOGA FALLS, SUMMIT COUNTY

STA-SUM ITS

183  
390

CCTV 008022

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PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 6.35, 80' RT.

PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 6.44, 64' RT.

PROP. PULL BOX, 725.08: 18", PB3  
S.L.M. 6.59, 168' RT.

PROP. PULL BOX, 725.08: 32", PB4  
S.L.M. 6.59, 60' RT.

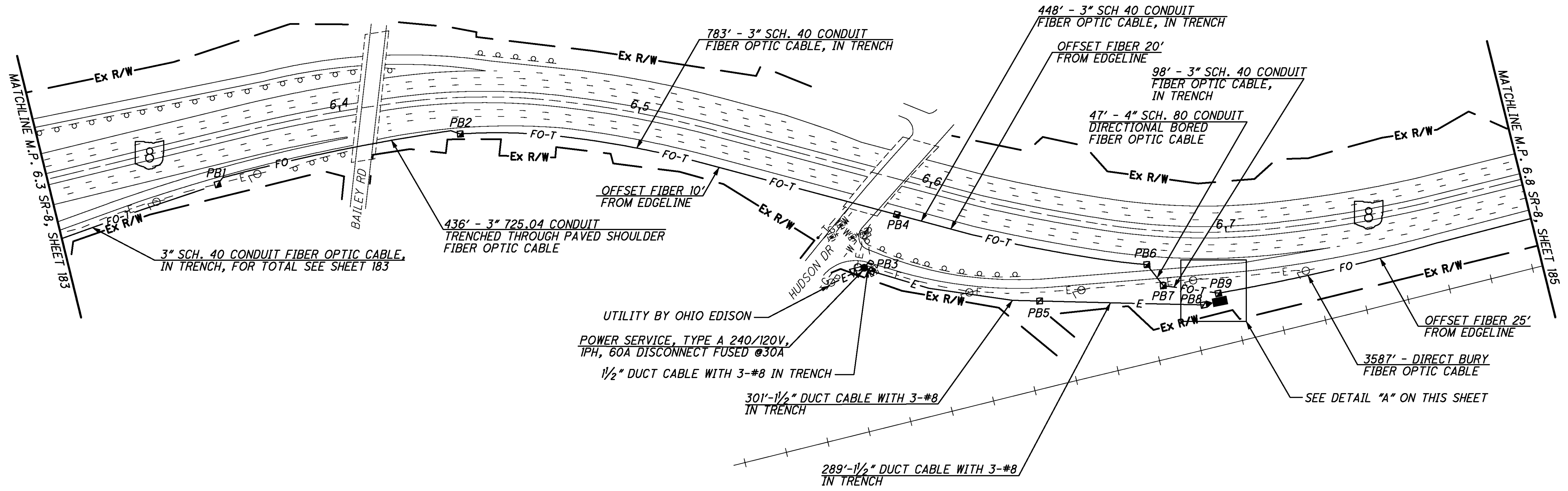
PROP. PULL BOX, 725.08: 18", PB5  
S.L.M. 6.64, 151' RT.

PROP. PULL BOX, 725.08: 32", PB6  
S.L.M. 6.67, 61' RT.

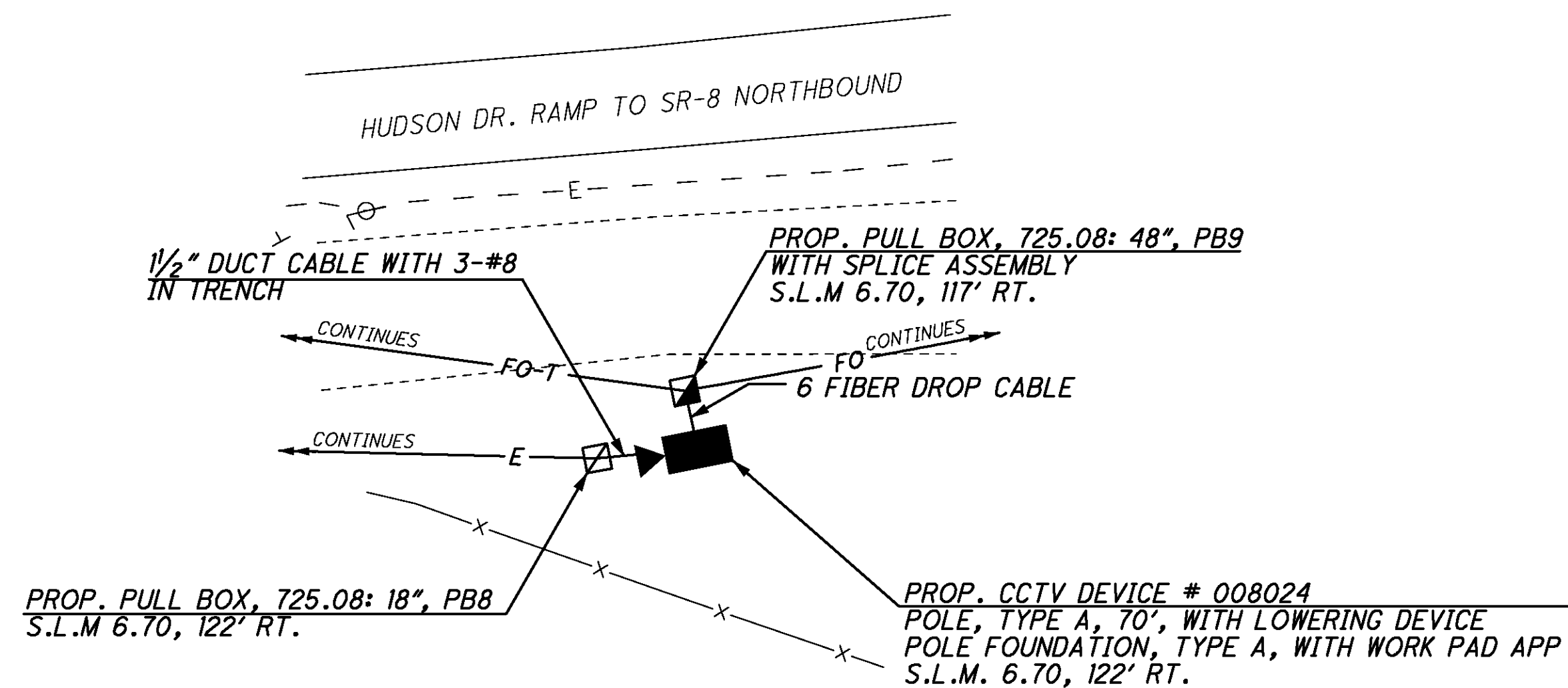
PROP. PULL BOX, 725.08: 32", PB7  
S.L.M. 6.68, 96' RT.

PROP. PULL BOX, 725.08: 18", PB8  
S.L.M. 6.70, 122' RT.

PROP. PULL BOX, 725.08: 48", PB9  
WITH SPLICE ASSEMBLY  
S.L.M. 6.70, 117' RT.



DETAIL "A" - 20 SCALE



REFER TO SHEET 14 FOR TRENCHING THROUGH PAVED SHOULDER DETAILS

REFER TO SHEET 23 FOR TYPICAL CCTV DETAILS

REFER TO SHEET 382 FOR COMMUNICATION DETAILS

CALCULATED STS CHECKED JDG

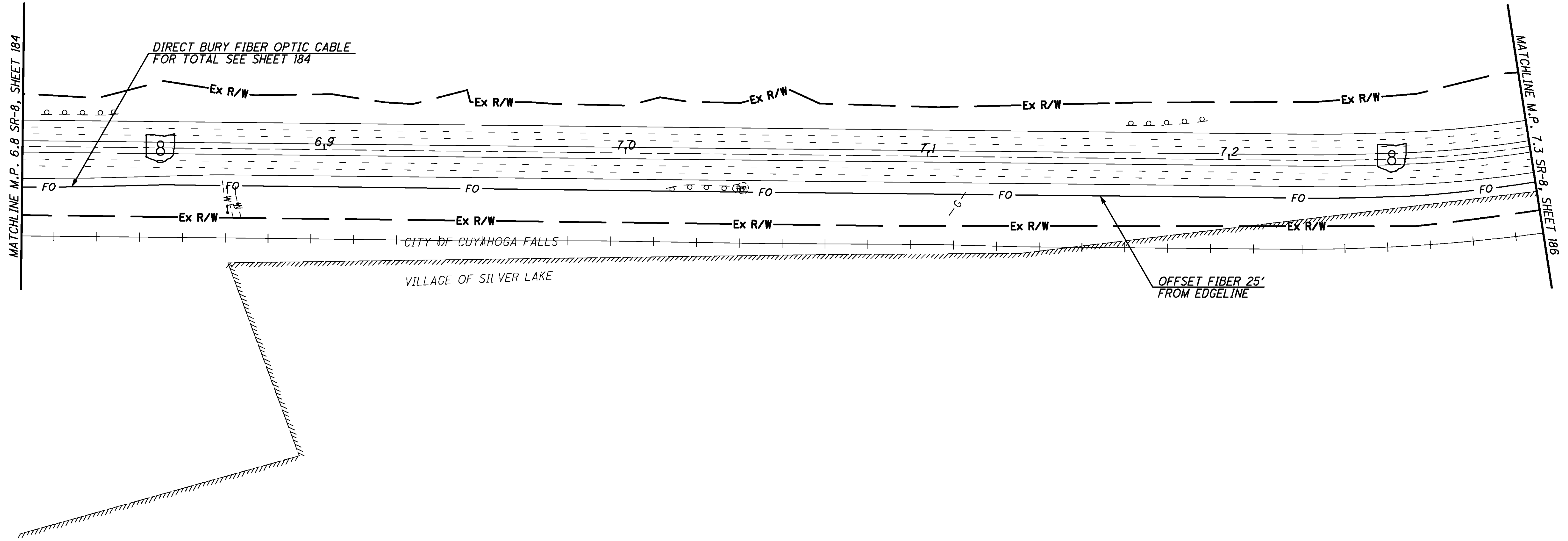
0 50 100 200  
HORIZONTAL SCALE IN FEET

SR-8 AT HUDSON DR (MP 6.3 TO MP 6.8)  
CITY OF CUYAHOGA FALLS, SUMMIT COUNTY

STA-SUM ITS

J:\JOBS\42430\TECHPROD\13311\traffic\sheet\13311GP127.dgn 06-DEC-2007 3:50PM jsnea

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NO FIELD DEVICE ON THIS SHEET



CALCULATED	STS
CHECKED	JDG

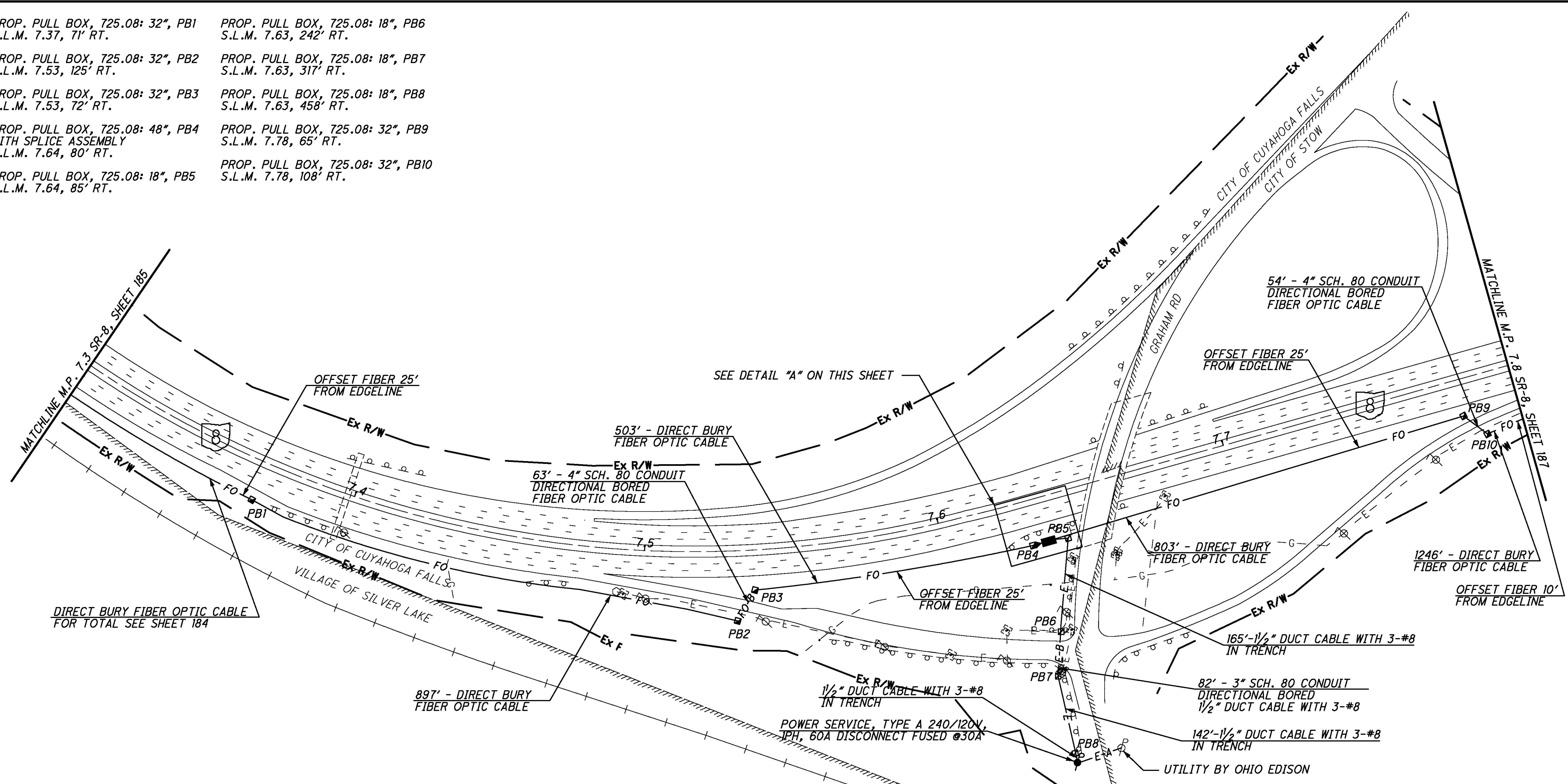
SR-8 AT HUDSON DR (MP 6.8 TO MP 7.3)  
CITY OF CUYAHOGA FALLS, SUMMIT COUNTY

STA-SUM ITS

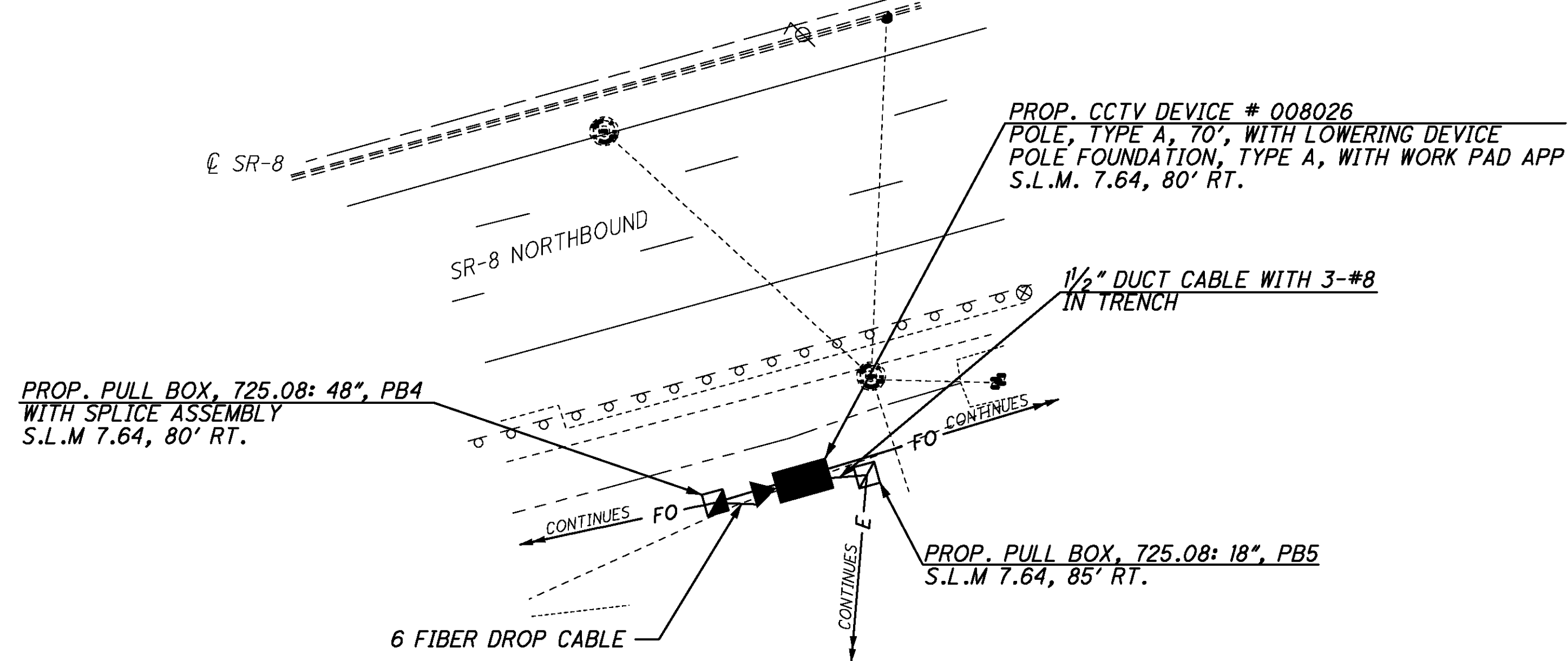
185
390



- PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 7.37, 71' RT.
- PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 7.53, 125' RT.
- PROP. PULL BOX, 725.08: 32", PB3  
S.L.M. 7.53, 72' RT.
- PROP. PULL BOX, 725.08: 48", PB4  
WITH SPLICE ASSEMBLY  
S.L.M. 7.64, 80' RT.
- PROP. PULL BOX, 725.08: 18", PB5  
S.L.M. 7.64, 85' RT.
- PROP. PULL BOX, 725.08: 18", PB6  
S.L.M. 7.63, 242' RT.
- PROP. PULL BOX, 725.08: 18", PB7  
S.L.M. 7.63, 317' RT.
- PROP. PULL BOX, 725.08: 18", PB8  
S.L.M. 7.63, 458' RT.
- PROP. PULL BOX, 725.08: 32", PB9  
S.L.M. 7.78, 65' RT.
- PROP. PULL BOX, 725.08: 32", PB10  
S.L.M. 7.78, 108' RT.



DETAIL "A" - 20 SCALE



REFER TO SHEET 23 FOR TYPICAL CCTV DETAILS  
REFER TO SHEET 383 FOR COMMUNICATION DETAILS

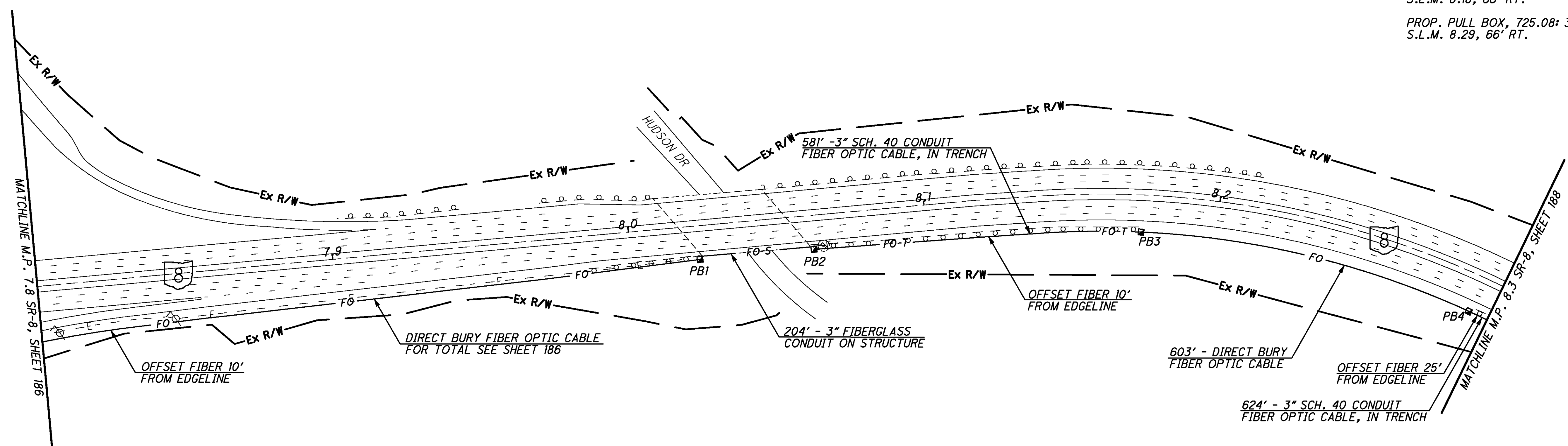
CALCULATED STS  
CHECKED JDG

SR-8 AT GRAHAM RD (MP 7.3 TO MP 7.8)  
CITY OF CUYAHOGA FALLS, SUMMIT COUNTY

STA-SUM ITS

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PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 8.02, 60' RT.

PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 8.06, 60' RT.

PROP. PULL BOX, 725.08: 32", PB3  
S.L.M. 8.18, 66' RT.

PROP. PULL BOX, 725.08: 32", PB4  
S.L.M. 8.29, 66' RT.

CALCULATED	STS
	CHECKED
JDK	

0 50 100 200  
HORIZONTAL SCALE IN FEET

REFER TO SHEET 13 FOR TYPICAL CONDUIT ATTACHED TO STRUCTURE DETAILS

REFER TO SHEET 268 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR BRIDGE OVER HUDSON DRIVE

NO FIELD DEVICE ON THIS SHEET

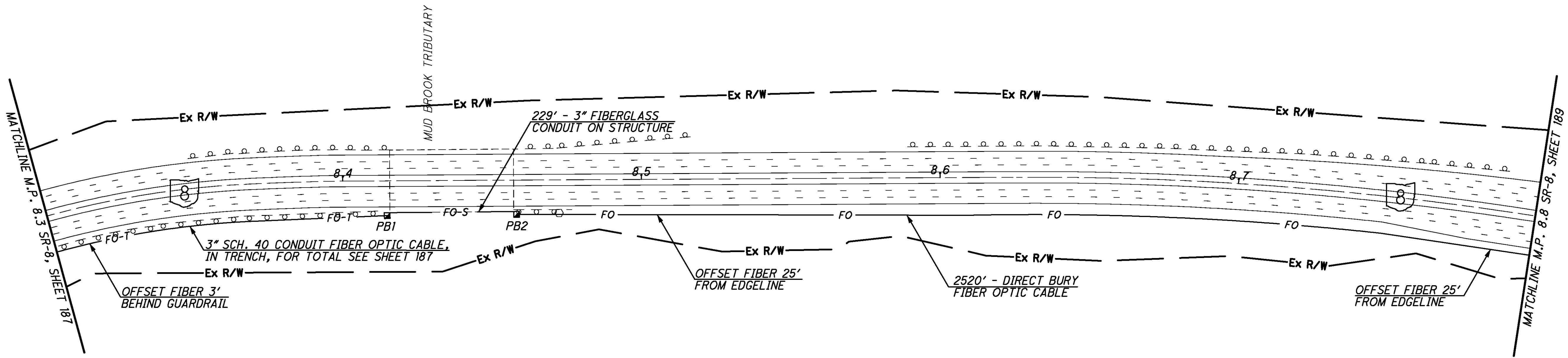
SR-8 AT HUDSON DR (MP 7.8 TO MP 8.3)  
CITY OF STOW, SUMMIT COUNTY

STA-SUM ITS

187  
390

PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 8.41, 61' RT.

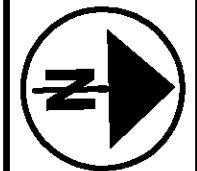
PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 8.46, 61' RT.



REFER TO SHEET 13 FOR TYPICAL CONDUIT ATTACHED TO STRUCTURE DETAILS

REFER TO SHEET 269 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR BRIDGE OVER MUD BROOK TRIBUTARY

NO FIELD DEVICE ON THIS SHEET



CALCULATED STS  
CHECKED JDG

SR-8 AT HUDSON DR (MP 8.3 TO MP 8.8)  
CITY OF STOW, SUMMIT COUNTY

STA-SUM ITS

188  
390

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PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 8.94, 130' RT.

PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 8.94, 92' RT.

PROP. PULL BOX, 725.08: 48", PB3  
WITH SPLICE ASSEMBLY  
S.L.M. 9.07, 72' RT.

PROP. PULL BOX, 725.08: 32", PB4  
S.L.M. 9.07, 68' LT.

PROP. PULL BOX, 725.08: 18", PB5  
S.L.M. 9.07, 78' LT.

PROP. PULL BOX, 725.08: 18", PB6  
S.L.M. 9.06, 341' LT.

PROP. PULL BOX, 725.08: 18", PB7  
S.L.M. 9.06, 405' LT.

PROP. PULL BOX, 725.08: 18", PB8  
S.L.M. 9.06, 493' LT.

PROP. PULL BOX, 725.08: 18", PB9  
S.L.M. 9.08, 498' LT.

PROP. PULL BOX, 725.08: 32", PB10  
S.L.M. 9.21, 116' RT.

PROP. PULL BOX, 725.08: 32", PB11  
S.L.M. 9.22, 146' RT.

UTILITY BY OHIO EDISON

99' - 3" SCH. 80 CONDUIT  
DIRECTIONAL BORED  
1/2" DUCT CABLE WITH 3-#8

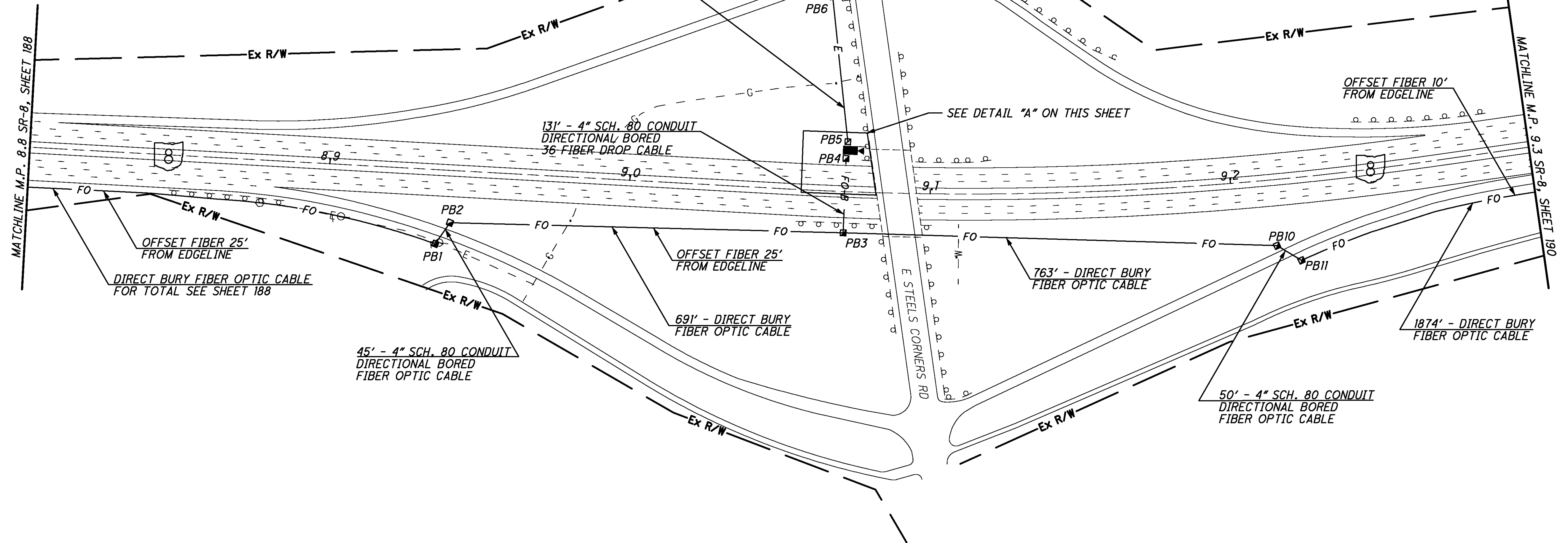
88'-1/2" DUCT CABLE WITH 3-#8  
IN TRENCH

66' - 3" SCH. 80 CONDUIT  
DIRECTIONAL BORED  
1/2" DUCT CABLE WITH 3-#8

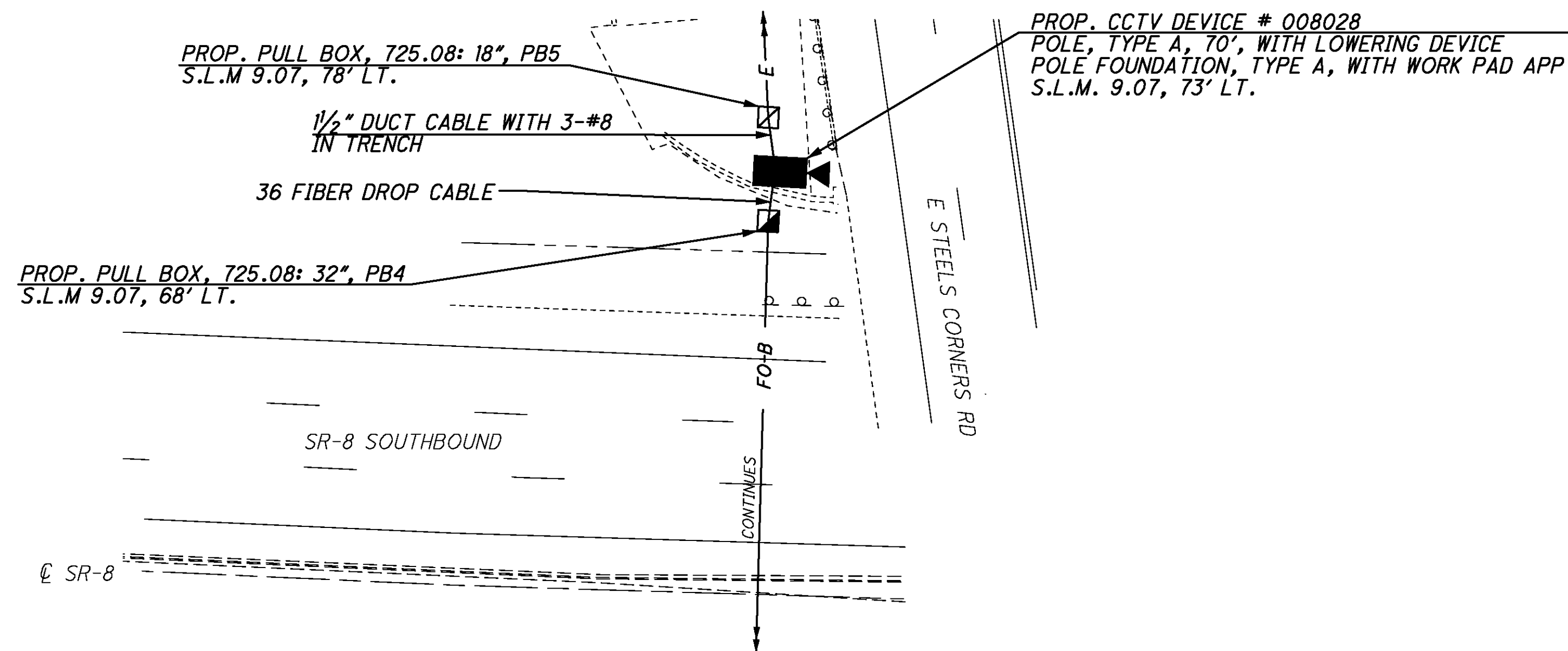
257'-1/2" DUCT CABLE WITH 3-#8  
IN TRENCH

1/2" DUCT CABLE WITH 3-#8  
IN TRENCH

POWER SERVICE TYPE C, 240/120V,  
IPH, 60A DISCONNECT FUSED @30A



DETAIL "A" - 20 SCALE



REFER TO SHEET 23 FOR TYPICAL CCTV DETAILS  
REFER TO SHEETS 384-386 FOR COMMUNICATION DETAILS



CALCULATED STS  
CHECKED JDG

SR-8 AT STEELS CORNER (MP 8.8 TO MP 9.3)  
CITY OF STOW, CUMMIT COUNTY

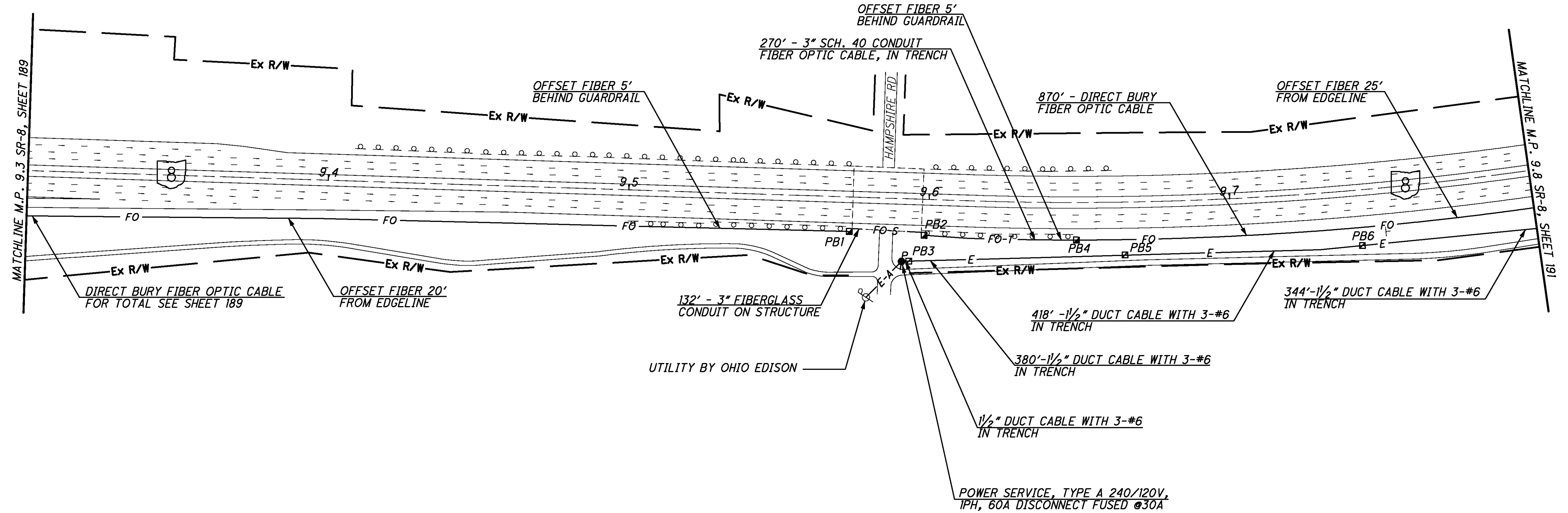
STA-SUM ITS

189  
390

PROP. PULL BOX, 725.08: 32", PB1 S.L.M. 9.57, 60' RT.    PROP. PULL BOX, 725.08: 32", PB4 S.L.M. 9.65, 66' RT.  
 PROP. PULL BOX, 725.08: 32", PB2 S.L.M. 9.60, 63' RT.    PROP. PULL BOX, 725.08: 18", PB5 S.L.M. 9.66, 92' RT.  
 PROP. PULL BOX, 725.08: 18", PB3 S.L.M. 9.60, 106' RT.    PROP. PULL BOX, 725.08: 18", PB6 S.L.M. 9.74, 98' RT.

CALCULATED STS CHECKED JDG

0 50 100 200  
 HORIZONTAL SCALE IN FEET



REFER TO SHEET 13 FOR TYPICAL CONDUIT ATTACHED TO STRUCTURE DETAILS  
 REFER TO SHEET 270 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR BRIDGE OVER HAMPSHIRE ROAD

NO FIELD DEVICE ON THIS SHEET

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SR-8 AT HAMPSHIRE RD (MP 9.3 TO MP 9.8)  
 CITY OF STOW, SUMMIT COUNTY

STA-SUM ITS

190  
 390



PROP. PULL BOX, 725.08: 18", PB1  
S.L.M. 9.81, 103' RT.

PROP. PULL BOX, 725.08: 48", PB2  
WITH SPLICE ASSEMBLY  
S.L.M. 9.81, 66' RT.

PROP. PULL BOX, 725.08: 32", PB3  
S.L.M. 9.81, 98' RT.

PROP. PULL BOX, 725.08: 32", PB4  
S.L.M. 9.97, 66' RT.

PROP. PULL BOX, 725.08: 32", PB5  
S.L.M. 10.13, 60' RT.

PROP. PULL BOX, 725.08: 32", PB6  
S.L.M. 10.15, 60' RT.

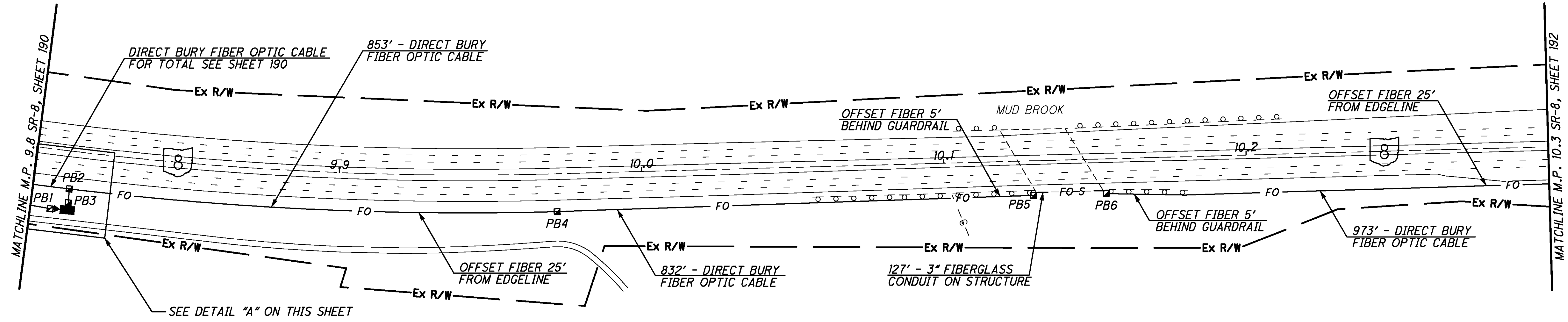


CALCULATED STS  
CHECKED JDG

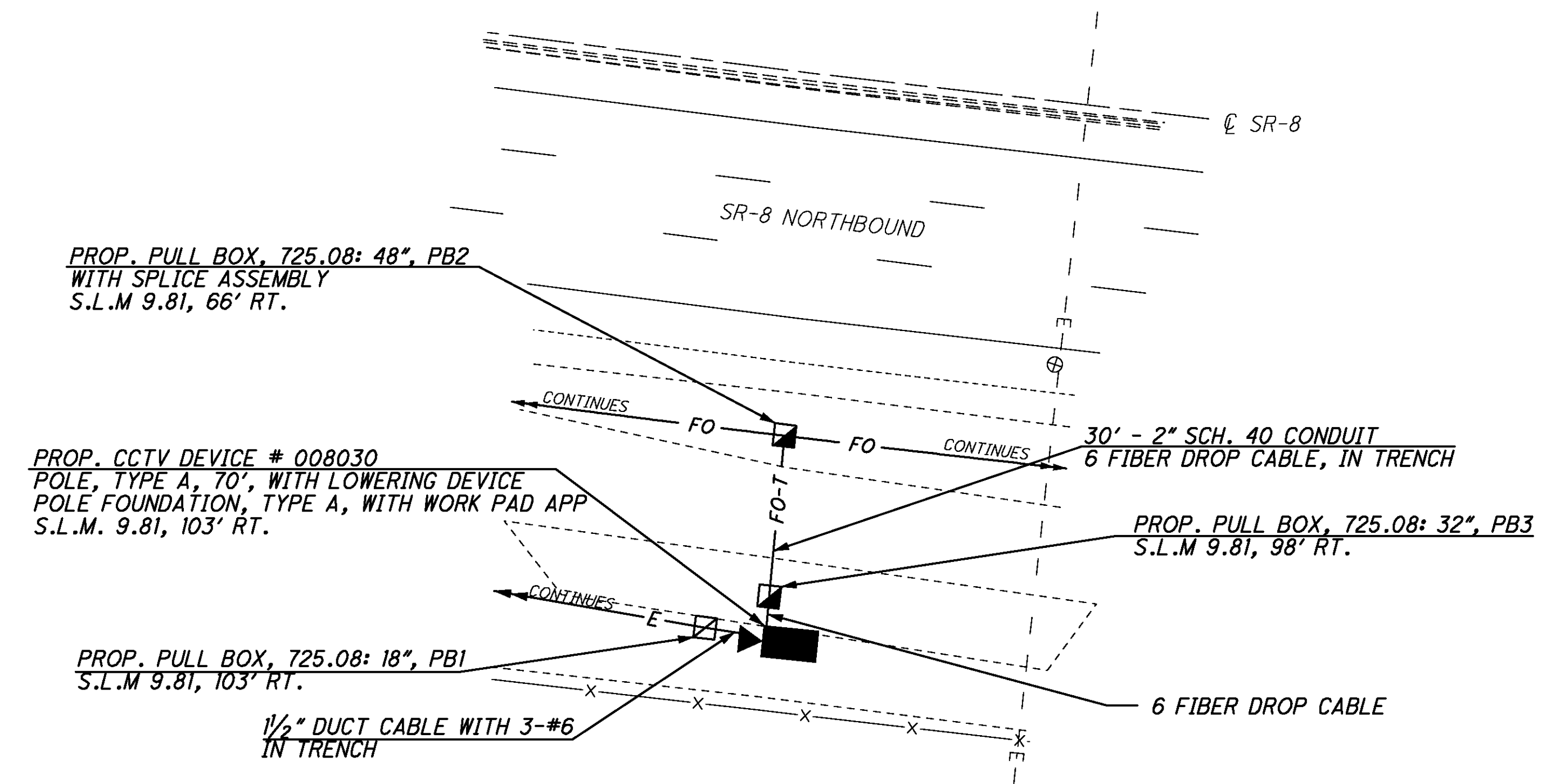
SR-8 AT HAMPSHIRE RD (MP 9.8 TO MP 10.3)  
CITY OF STOW, SUMMIT COUNTY

STA-SUM ITS

191  
390



DETAIL "A" - 20 SCALE



REFER TO SHEET 13 FOR TYPICAL CONDUIT ATTACHED TO STRUCTURE DETAILS  
REFER TO SHEET 23 FOR TYPICAL CCTV DETAILS  
REFER TO SHEET 271 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR BRIDGE OVER MUD BROOK  
REFER TO SHEET 387 FOR COMMUNICATION DETAILS

CCTV 008030

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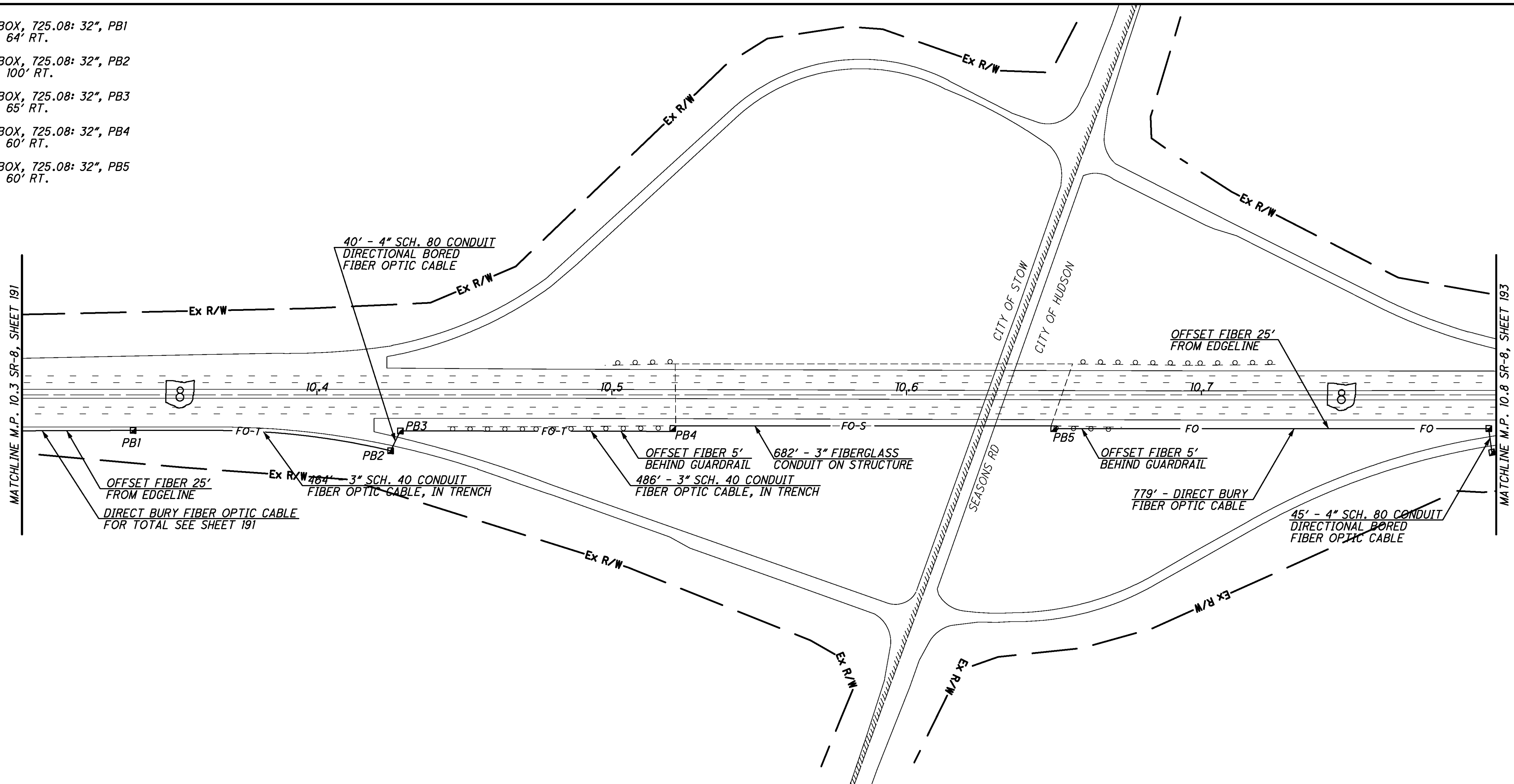
PROP. PULL BOX, 725.08: 32", PB1  
S.L.M. 10.34, 64' RT.

PROP. PULL BOX, 725.08: 32", PB2  
S.L.M. 10.43, 100' RT.

PROP. PULL BOX, 725.08: 32", PB3  
S.L.M. 10.43, 65' RT.

PROP. PULL BOX, 725.08: 32", PB4  
S.L.M. 10.52, 60' RT.

PROP. PULL BOX, 725.08: 32", PB5  
S.L.M. 10.65, 60' RT.



REFER TO SHEET 13 FOR TYPICAL CONDUIT ATTACHED TO STRUCTURE DETAILS  
REFER TO SHEET 272 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS FOR BRIDGE OVER SEASONS ROAD

NO FIELD DEVICE ON THIS SHEET



CALCULATED STS  
CHECKED JDG

SR-8 AT SEASONS RD (MP 10.3 TO MP 10.8)  
CITY OF STOW, SUMMIT COUNTY

STA - SUM ITS

192  
390

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BOSTON TWP  
CITY OF HUDSON

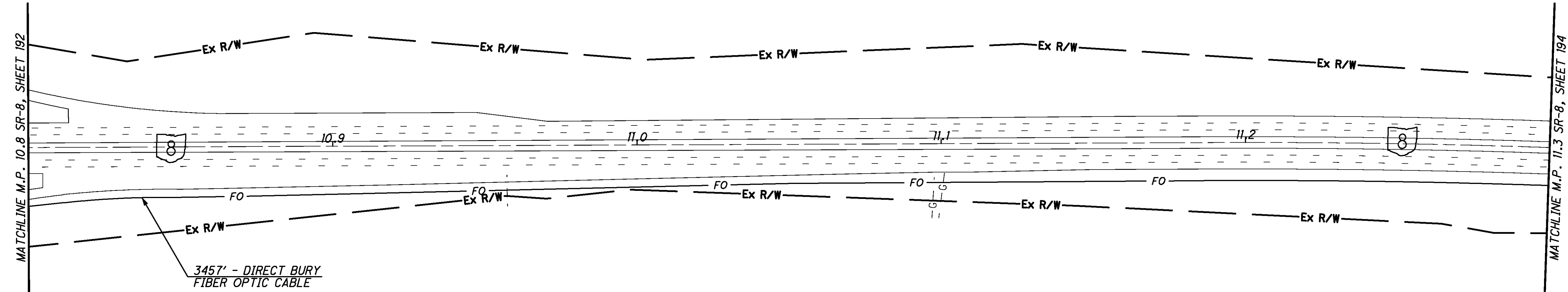


CALCULATED STS  
CHECKED JDG

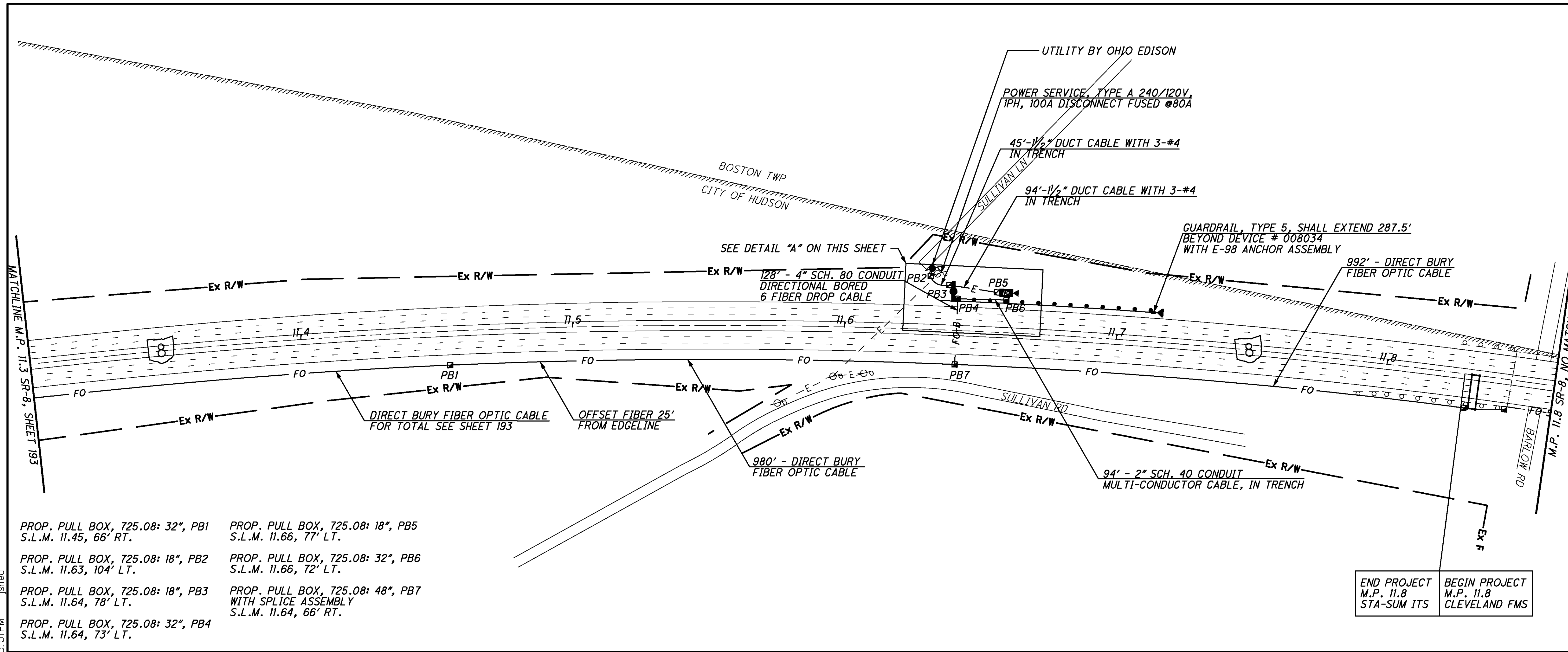
SR-8 AT SEASONS RD (MP 10.8 TO MP 11.3)  
CITY OF HUDSON, SUMMIT COUNTY

STA - SUM ITS

193  
390

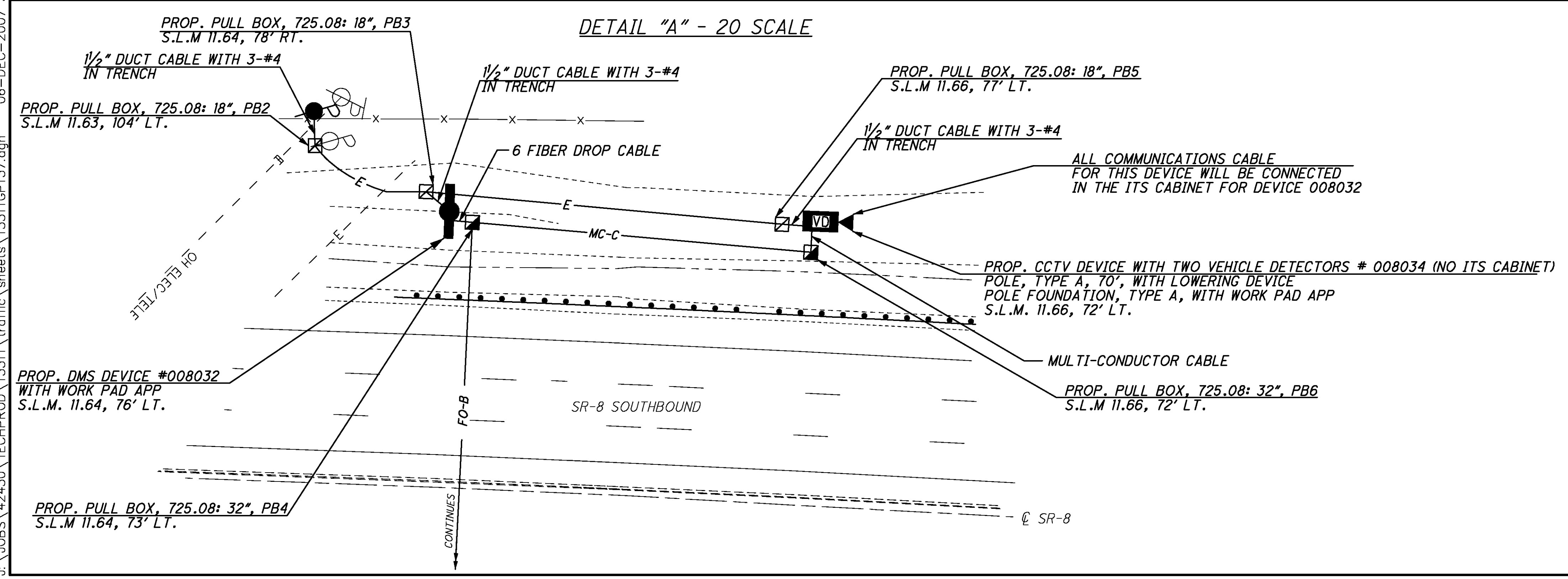


NO FIELD DEVICE ON THIS SHEET



- PROP. PULL BOX, 725.08: 32", PB1 S.L.M. 11.45, 66' RT.
- PROP. PULL BOX, 725.08: 18", PB2 S.L.M. 11.63, 104' LT.
- PROP. PULL BOX, 725.08: 18", PB3 S.L.M. 11.64, 78' LT.
- PROP. PULL BOX, 725.08: 32", PB4 S.L.M. 11.64, 73' LT.
- PROP. PULL BOX, 725.08: 18", PB5 S.L.M. 11.66, 77' LT.
- PROP. PULL BOX, 725.08: 32", PB6 S.L.M. 11.66, 72' LT.
- PROP. PULL BOX, 725.08: 48", PB7 WITH SPLICE ASSEMBLY S.L.M. 11.64, 66' RT.

END PROJECT M.P. 11.8 STA-SUM ITS	BEGIN PROJECT M.P. 11.8 CLEVELAND FMS
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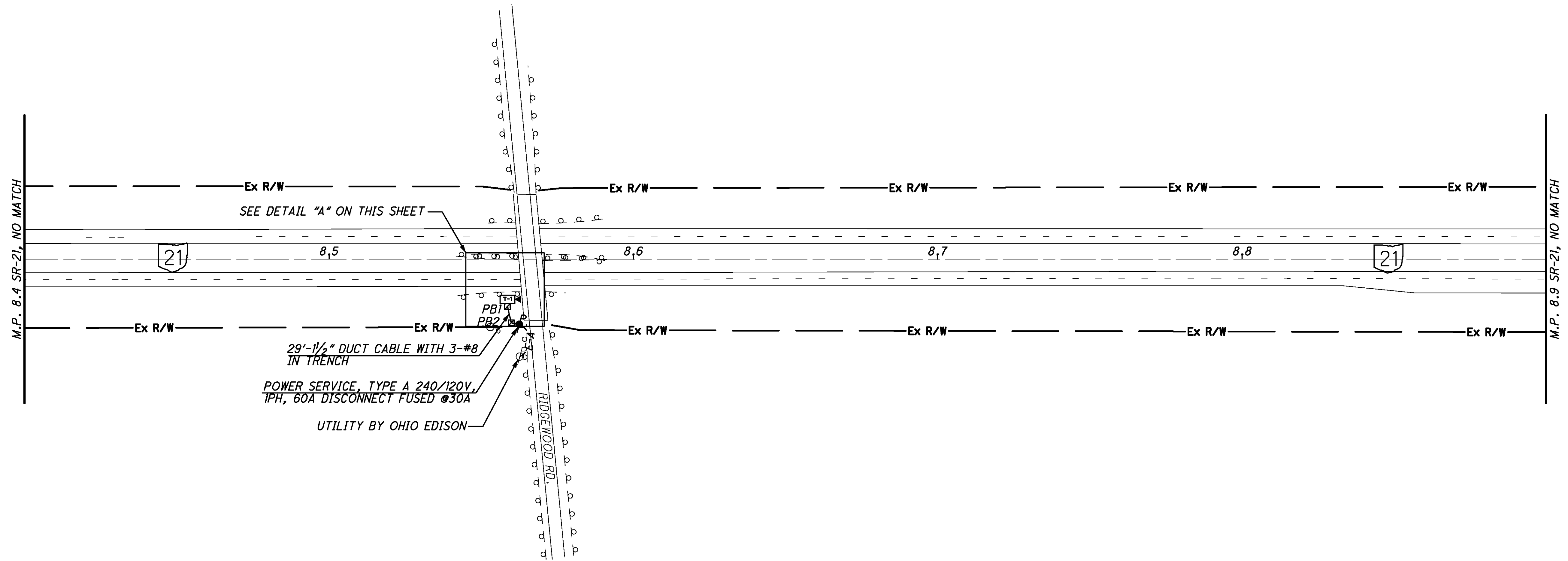
REFER TO SHEET 24 FOR TYPICAL CCTV WITH TWO VEHICLE DETECTORS DETAILS
   
 REFER TO SHEET 25 FOR TYPICAL DMS DETAILS
   
 REFER TO SHEET 388 FOR COMMUNICATION DETAILS FOR CLEVELAND ITS TIE-IN

DMS 008032
   
 CCTV 008034

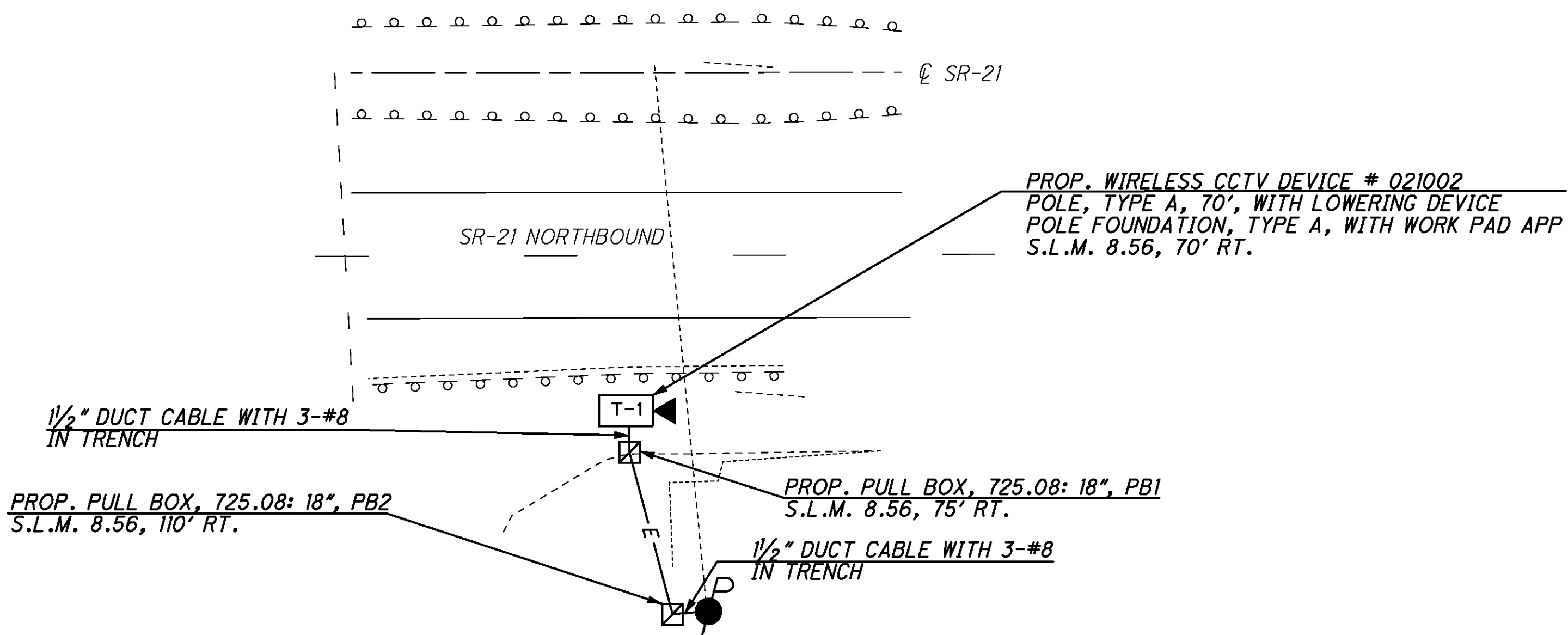
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PROP. PULL BOX, 725.08: 18", PB1  
S.L.M. 8.56, 75' RT.

PROP. PULL BOX, 725.08: 18", PB2  
S.L.M. 8.56, 110' RT.



DETAIL "A" - 20 SCALE



REFER TO SHEET 23 FOR TYPICAL CCTV DETAILS  
REFER TO SHEET 389 FOR COMMUNICATION DETAILS



CALCULATED  
STS  
CHECKED  
JDG

SR-21 AT RIDGEWOOD RD (MP 8.4 TO MP 8.9)  
COPLEY TOWNSHIP, SUMMIT COUNTY

STA-SUM ITS

195  
390

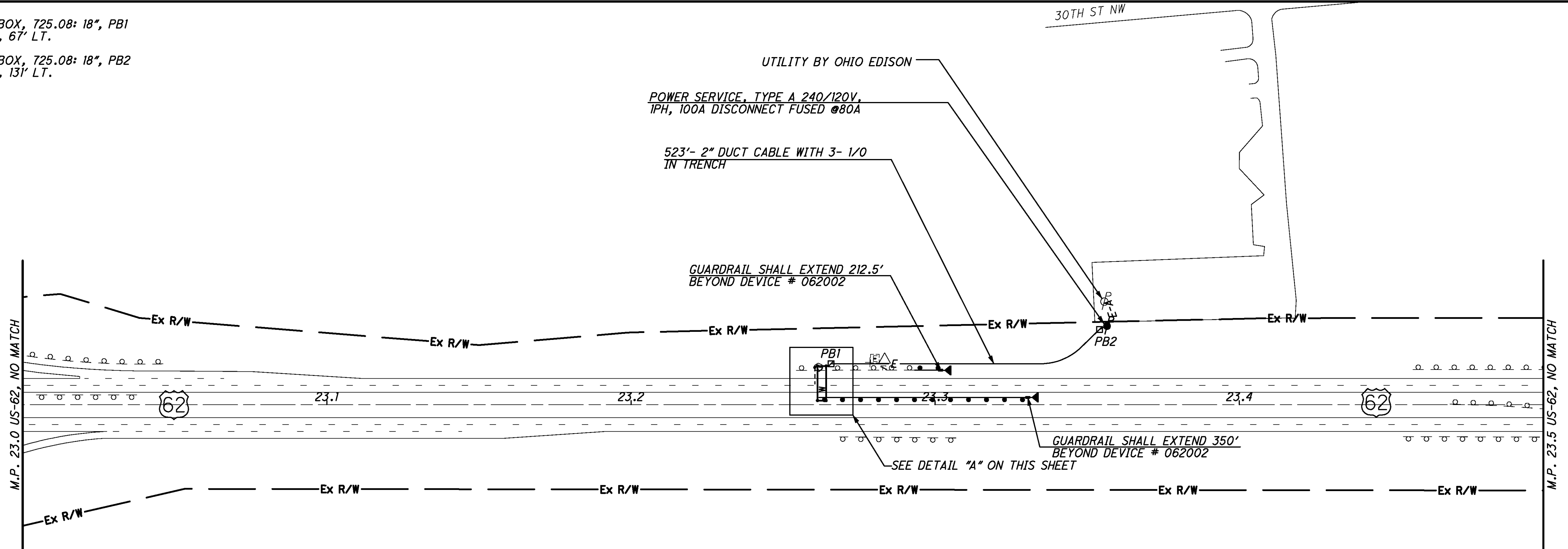
CCTV 021002

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PROP. PULL BOX, 725.08: 18", PB1  
S.L.M. 23.26, 67' LT.

PROP. PULL BOX, 725.08: 18", PB2  
S.L.M. 23.35, 131' LT.



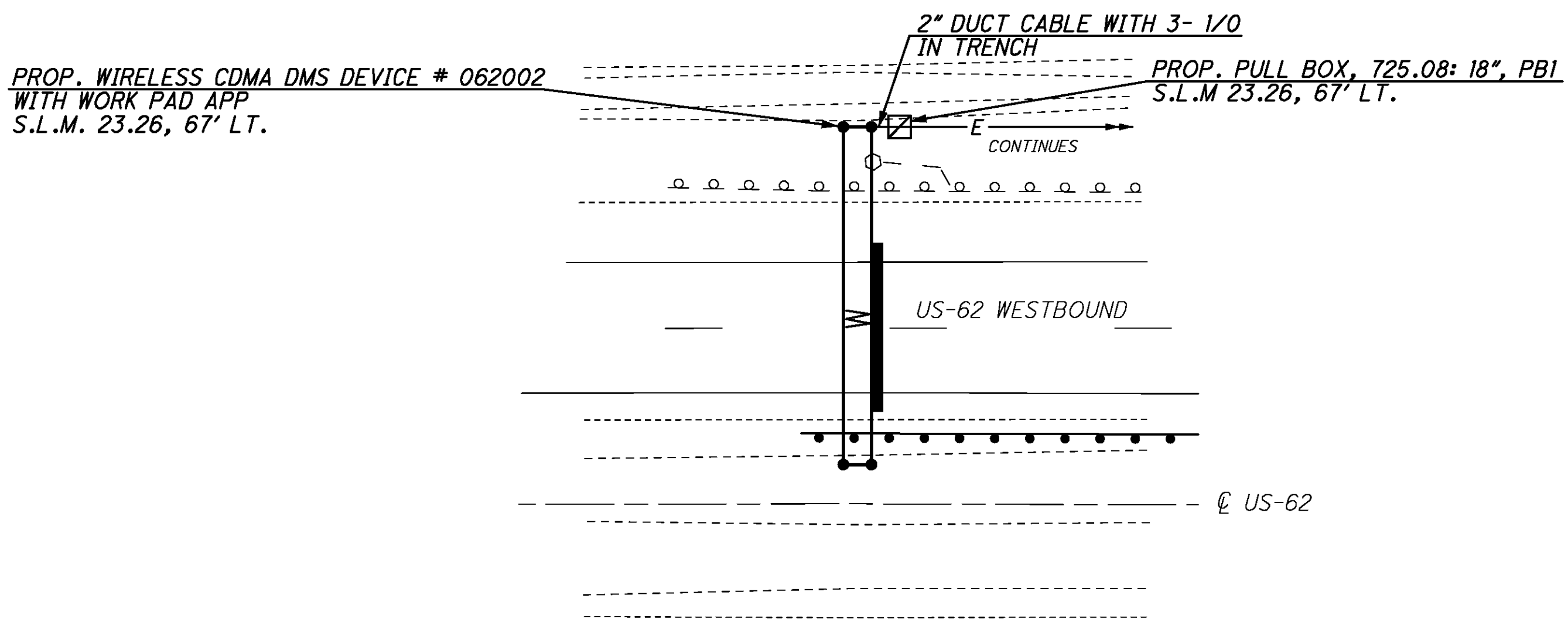
CALCULATED STS  
CHECKED JDG

US-62 AT CLEVELAND AVE (MP 23.0 TO MP 23.5)  
CITY OF CANTON, STARK COUNTY

STA - SUM ITS

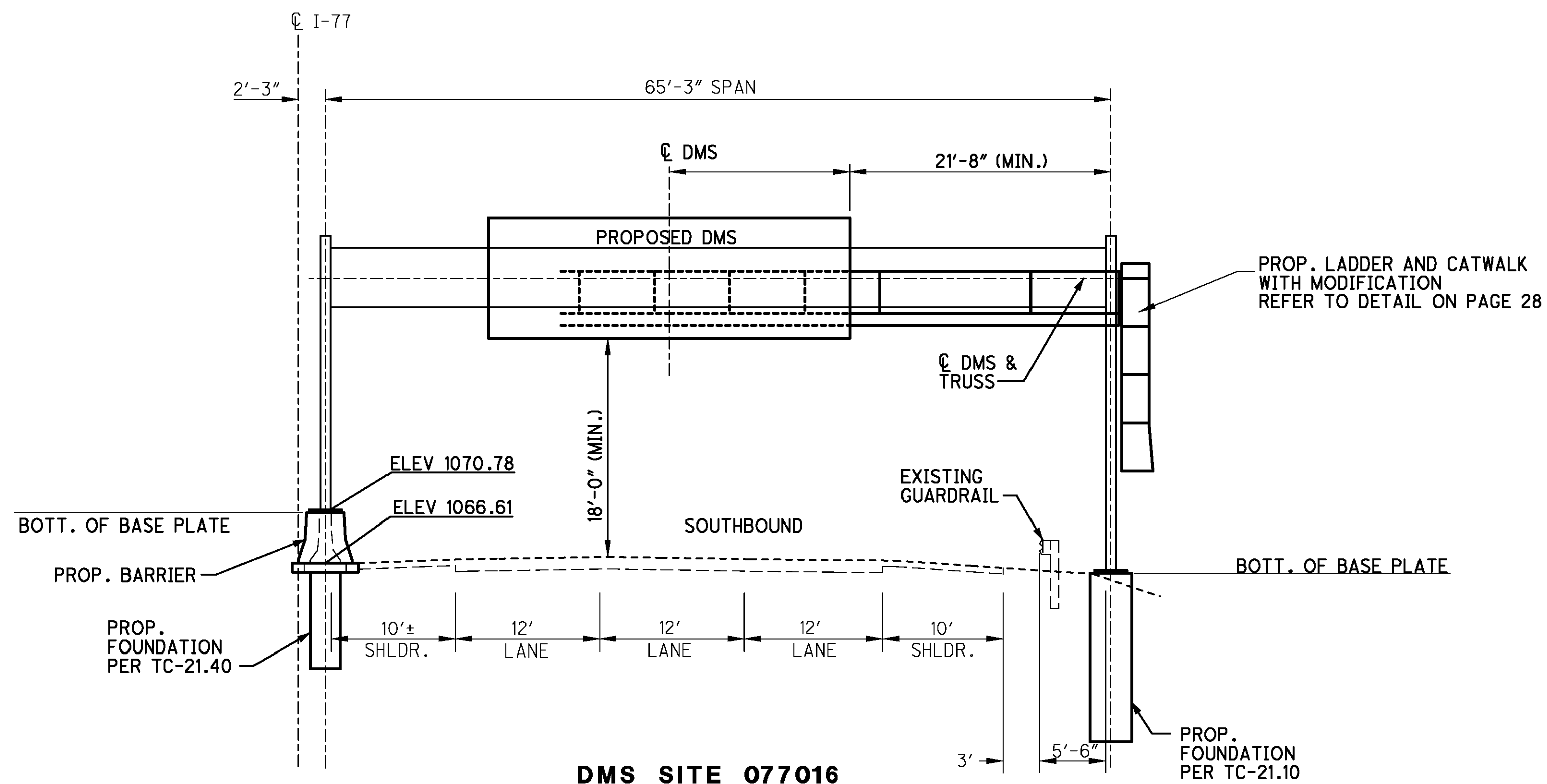
196  
390

DETAIL "A" - 20 SCALE

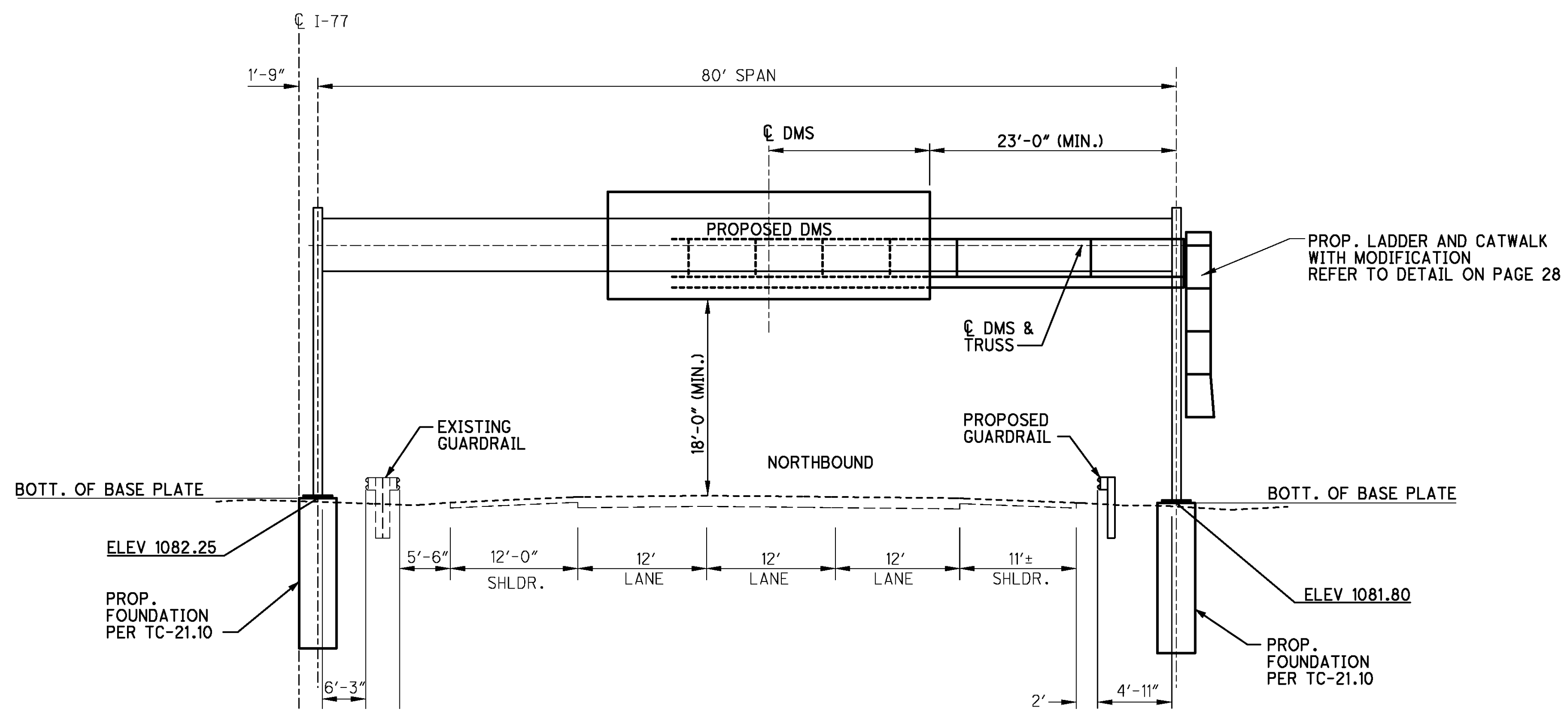


REFER TO SHEET 25 FOR TYPICAL DMS DETAILS  
REFER TO SHEET 199 FOR DMS PROFILE  
REFER TO SHEET 390 FOR COMMUNICATION DETAILS

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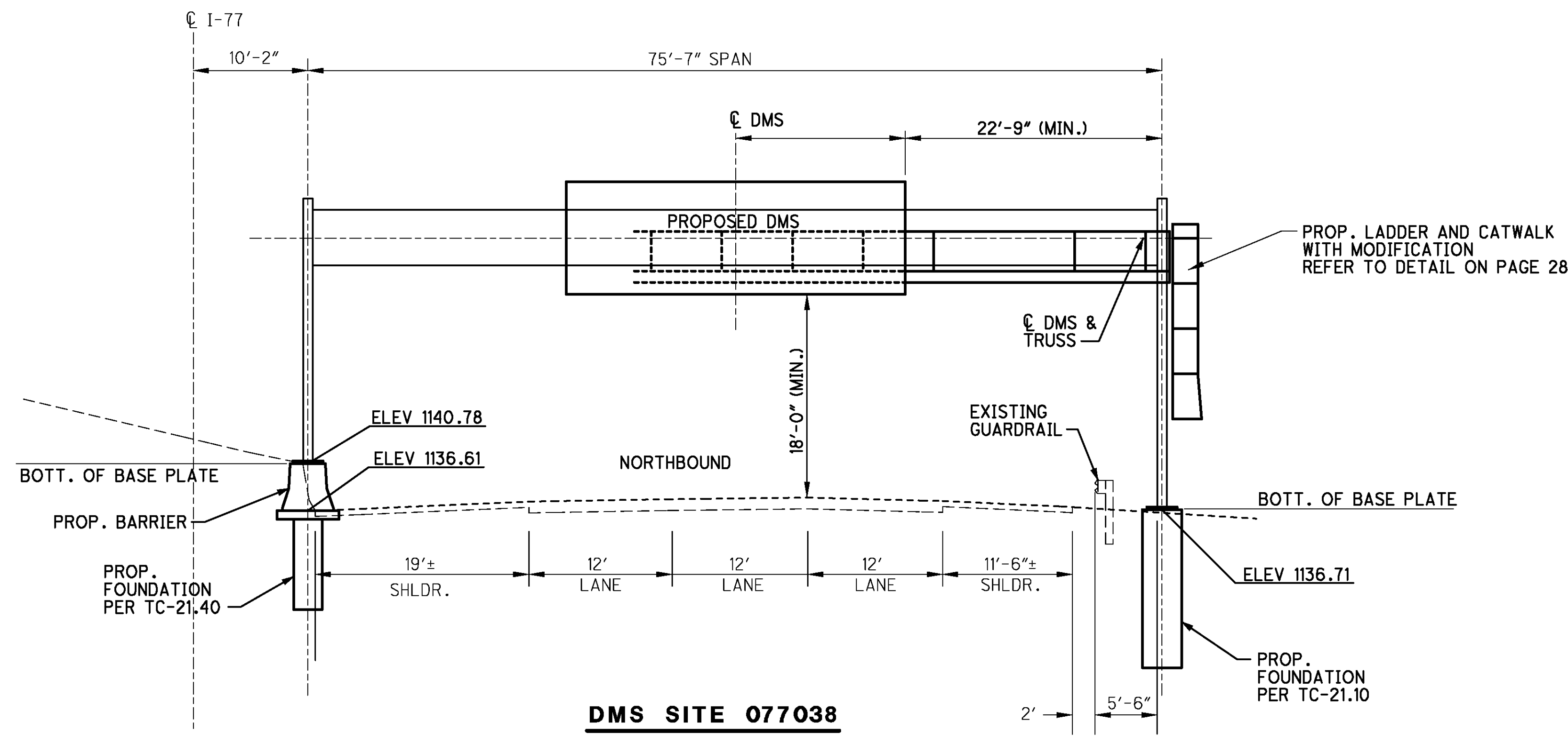


**DMS SITE 077016**  
I-77  
M.P. 108.51 S.B.  
EXIST. SIGN AREA = 150 S.F.  
PROP. SPAN LENGTH = 65'-3"

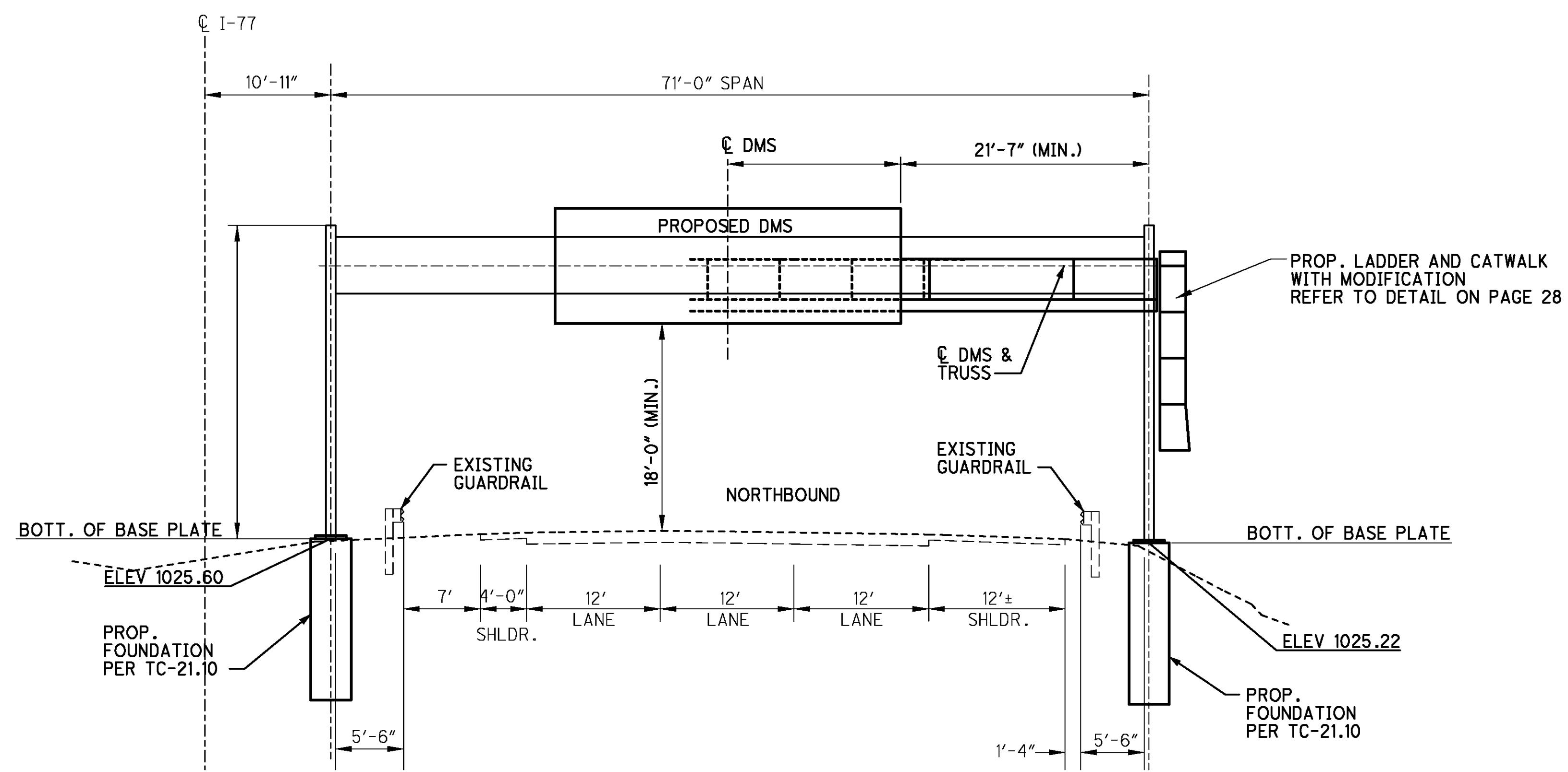


**DMS SITE 077024**  
I-77  
S.L.M. 112.80 N.B.  
EXIST. SIGN AREA = N/A  
PROP. SPAN LENGTH = 80'

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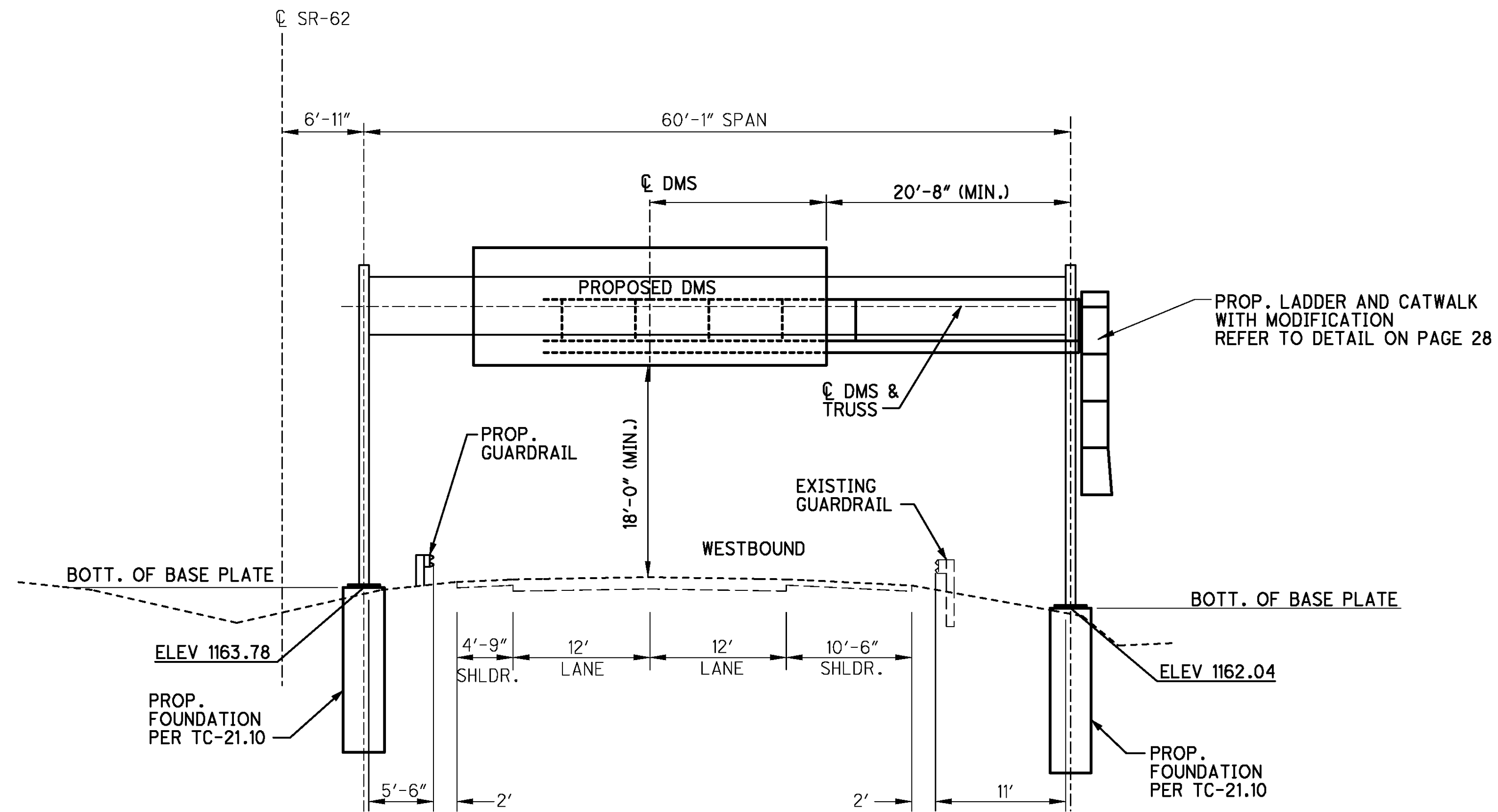


**DMS SITE 077038**  
I-77  
M.P. 118.93 N.B.  
EXIST. SIGN AREA = 150 S.F.  
PROP. SPAN LENGTH = 75'-7"



**DMS SITE 077044**  
I-77  
S.L.M. 121.44 N.B.  
EXIST. SIGN AREA = 150 S.F.  
PROP. SPAN LENGTH = 71'

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**DMS SITE 062002**

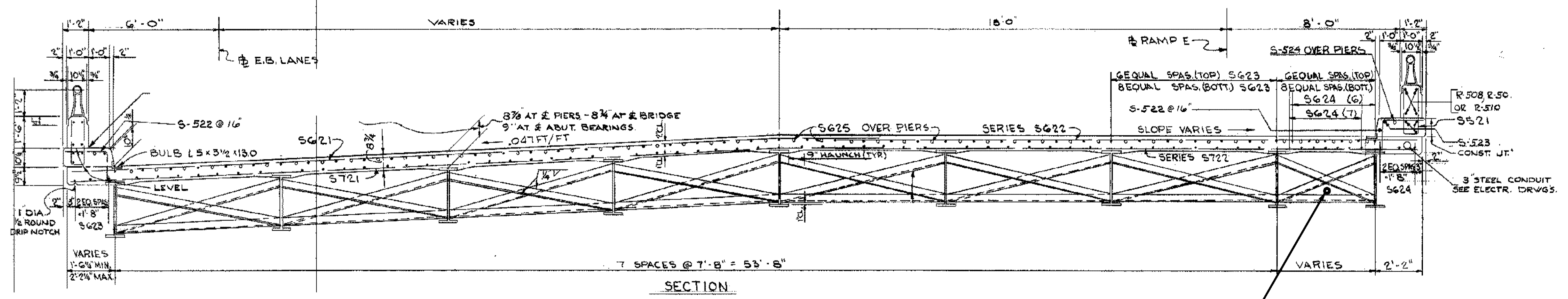
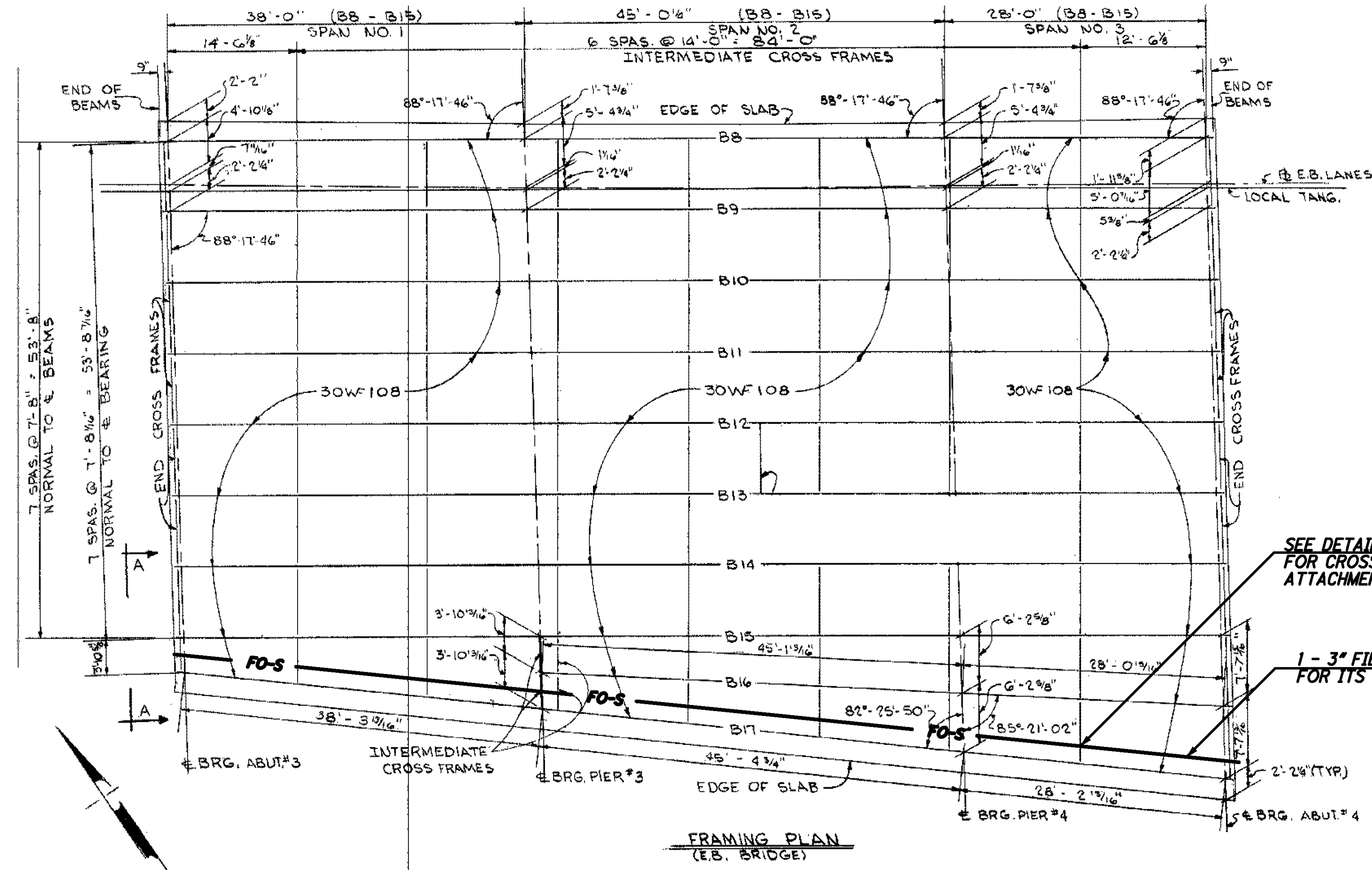
SR-62  
 M.P. 23.26 W.B.  
 EXIST. SIGN AREA = 150 S.F.  
 PROP. SPAN LENGTH = 60'-1"

CALCULATED	GM
	CHECKED
	JEL

**DYNAMIC MESSAGE SIGN PROFILES**  
**SITE 062002**

STA - SUM ITS

199
390



**NOTE:** INCLUDE EXPANSION COUPLING FOR FO-S AT ALL EXPANSION JOINTS INDICATED.

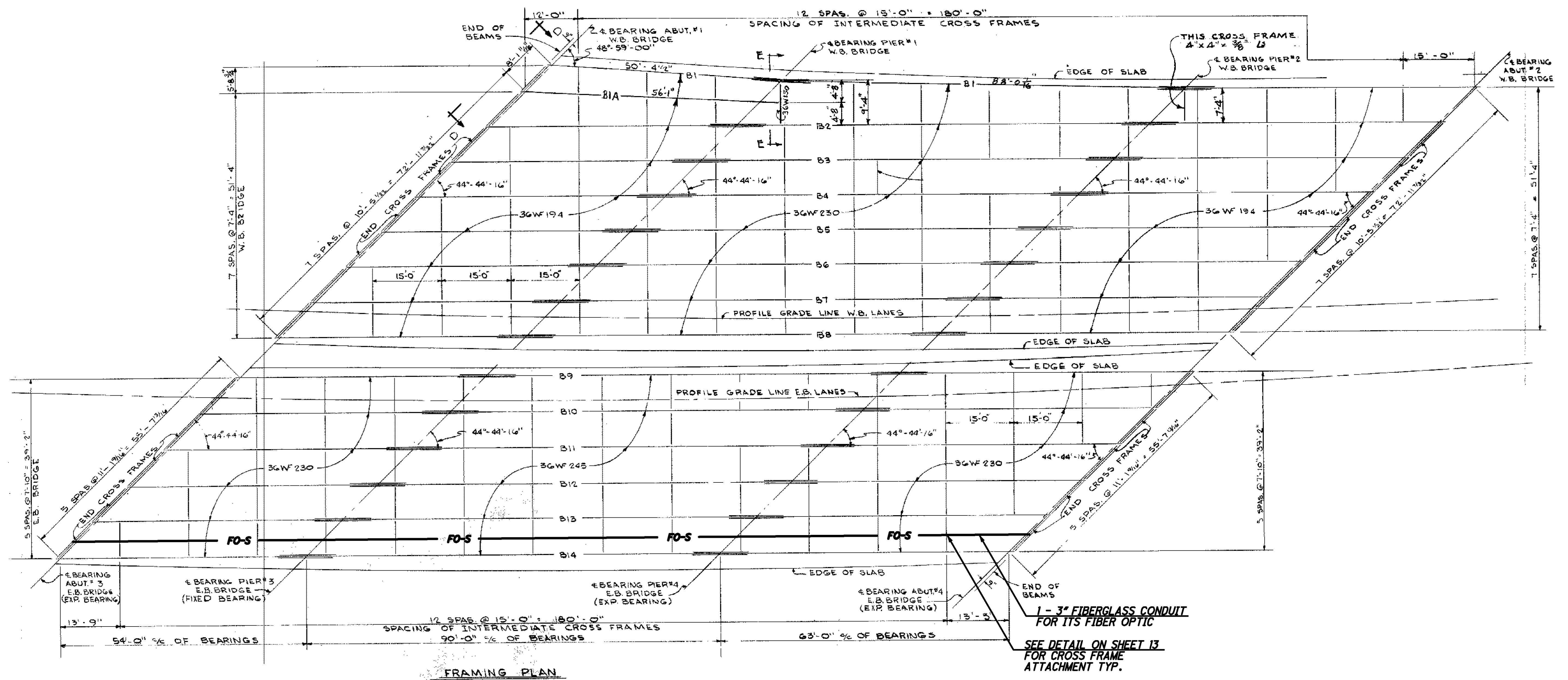
\* THESE SHEETS WERE TAKEN FROM ODOT RECORD PLANS AND ARE ONLY TO BE USED TO SHOW PROPOSED LOCATIONS OF CONDUIT, HANGERS AND EXPANSION COUPLINGS ON BRIDGE STRUCTURES AS NEEDED.

REFER TO SHEET 65 FOR PLAN SHEET

DESIGN AGENCY OHIO DEPARTMENT OF TRANSPORTATION	DATE	REVIEWED	DRAWN	DESIGNED	CONDUIT ATTACHED TO STRUCTURE DETAIL BRIDGE NO. SUM-76-0562 INTERSTATE 76 OVER CENTRAL AVENUE
	STRUCTURE FILE NUMBER 7705409R	GM	GM	RAW CHECKED JDG	
STA - SUM ITS PID No. 77482					
					200 390

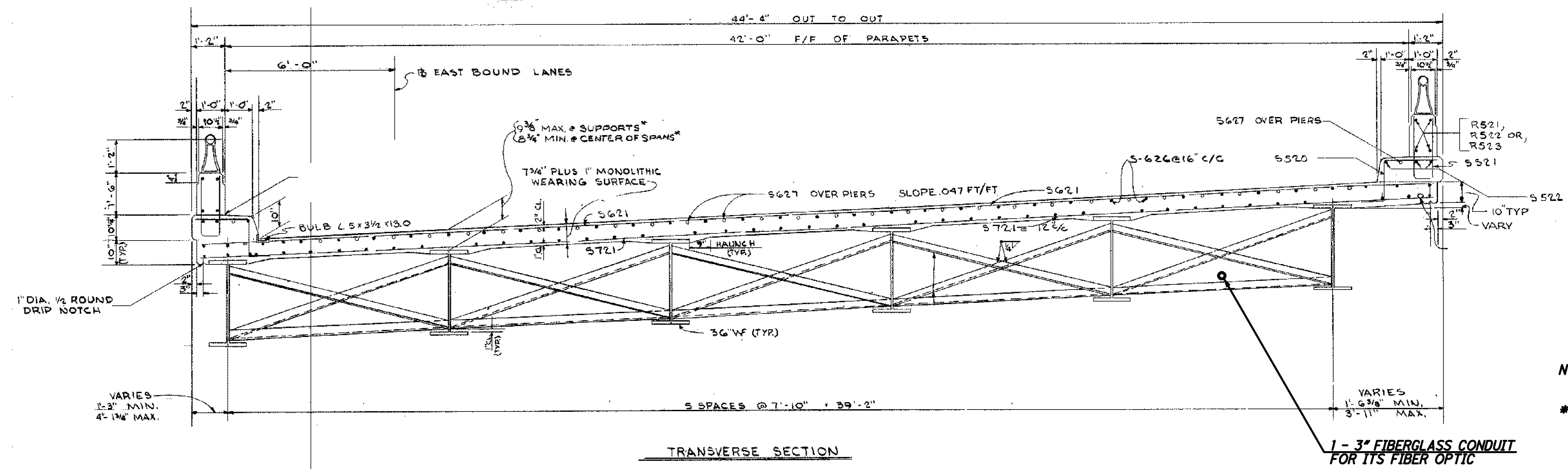


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FRAMING PLAN

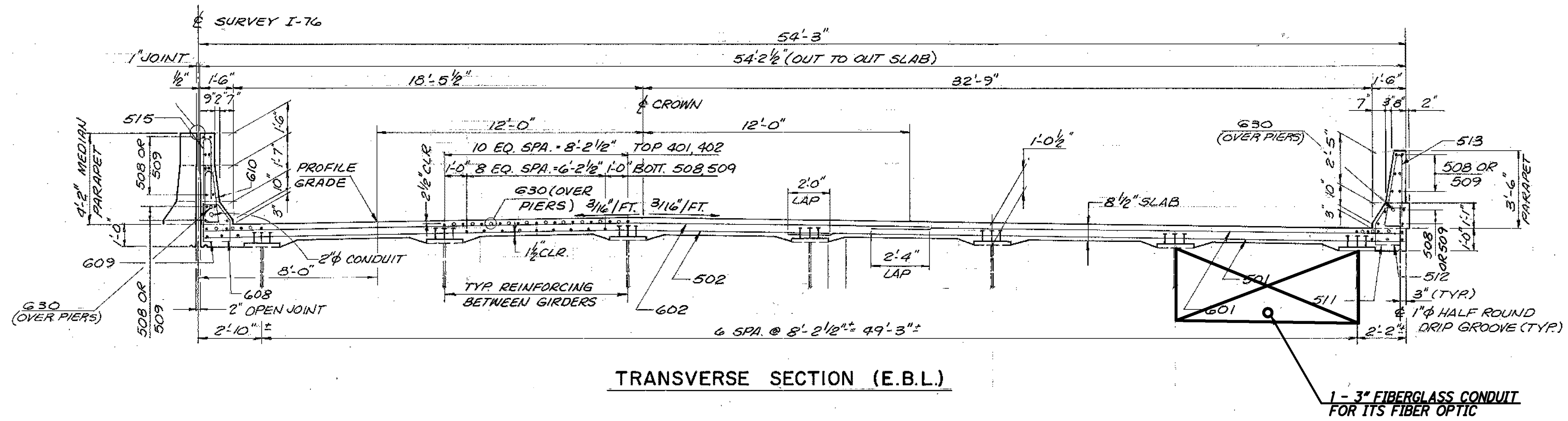
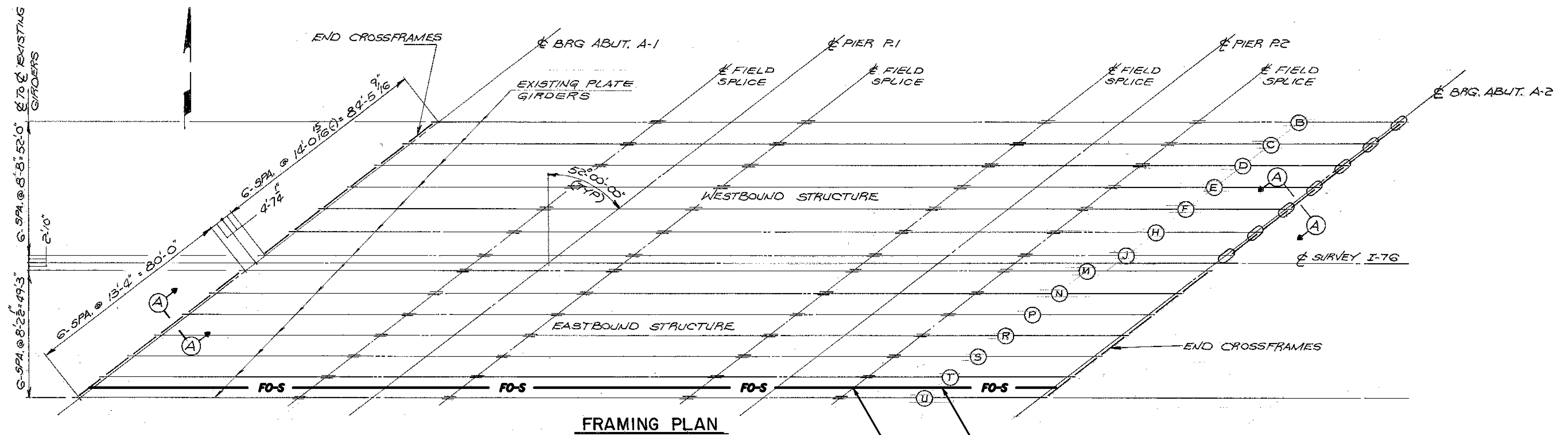
1 - 3" FIBERGLASS CONDUIT FOR ITS FIBER OPTIC  
SEE DETAIL ON SHEET 13 FOR CROSS FRAME ATTACHMENT TYP.



TRANSVERSE SECTION

NOTE: INCLUDE EXPANSION COUPLING FOR FO-S AT ALL EXPANSION JOINTS INDICATED.  
\* THESE SHEETS WERE TAKEN FROM ODOT RECORD PLANS AND ARE ONLY TO BE USED TO SHOW PROPOSED LOCATIONS OF CONDUIT, HANGERS AND EXPANSION COUPLINGS ON BRIDGE STRUCTURES AS NEEDED.  
REFER TO SHEET 65 FOR PLAN SHEET

DESIGN AGENCY		OHIO DEPARTMENT OF TRANSPORTATION	
DATE	REVIEWED	STRUCTURE FILE NUMBER	7705522R
DRAWN	GM	CHECKED	JDG
DESIGNED	RAW	REVISIONS	
CONDUIT ATTACHED TO STRUCTURE DETAIL			
BRIDGE NO. SUM-76-0580			
INTERSTATE 76 OVER WOOSTER ROAD			
STA-SUM ITS	PID No. 77482		
201			
390			

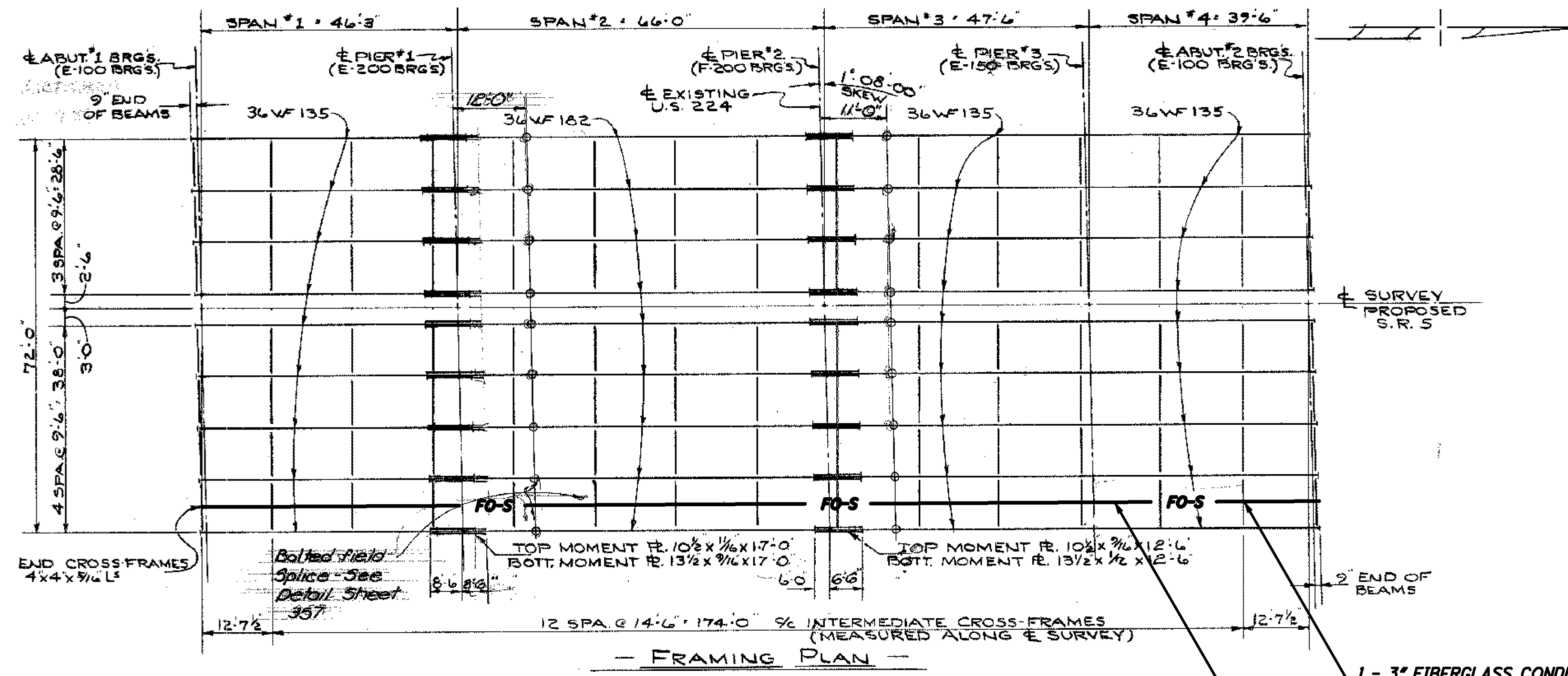


NOTE: INCLUDE EXPANSION COUPLING FOR FO-S AT ALL EXPANSION JOINTS INDICATED.

\* THESE SHEETS WERE TAKEN FROM ODOT RECORD PLANS AND ARE ONLY TO BE USED TO SHOW PROPOSED LOCATIONS OF CONDUIT, HANGERS AND EXPANSION COUPLINGS ON BRIDGE STRUCTURES AS NEEDED.

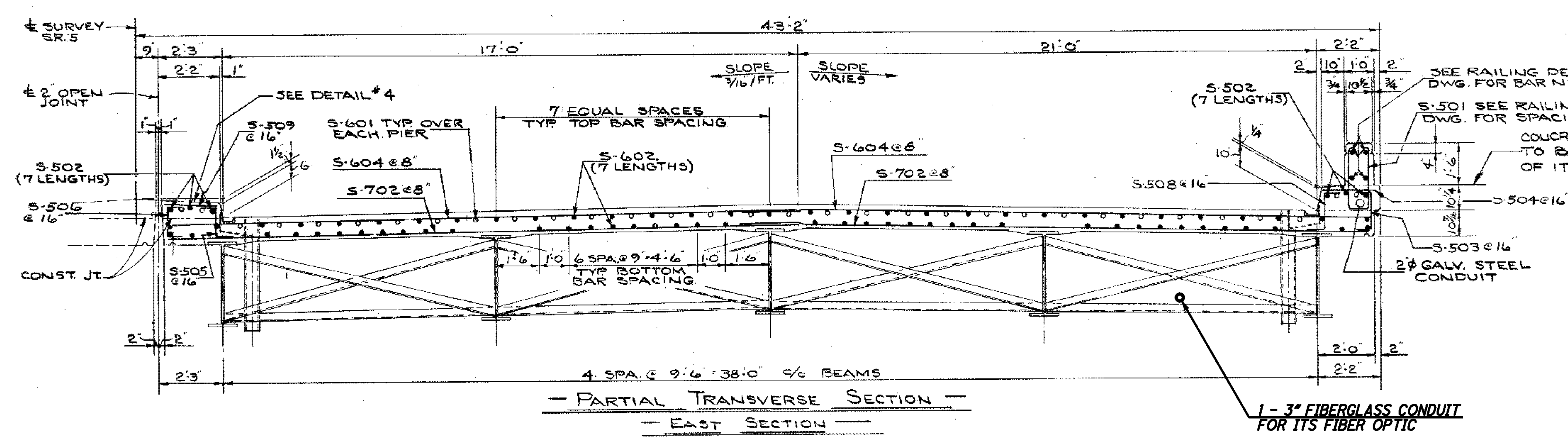
REFER TO SHEET 65 FOR PLAN SHEET

DESIGNED RAW CHECKED JDG	DRAWN GM REVISED GM	REVIEWED	DATE	DESIGN AGENCY
		STRUCTURE FILE NUMBER 7705557		OHIO DEPARTMENT OF TRANSPORTATION
CONDUIT ATTACHED TO STRUCTURE DETAIL				
BRIDGE NO. SUM-76-0591				
INTERSTATE 76 OVER B&O RR				
STA-SUM ITS	PID No. 77482			
		202 390		



1 - 3" FIBERGLASS CONDUIT FOR ITS FIBER OPTIC

SEE DETAIL ON SHEET 13 FOR CROSS FRAME ATTACHMENT TYP.



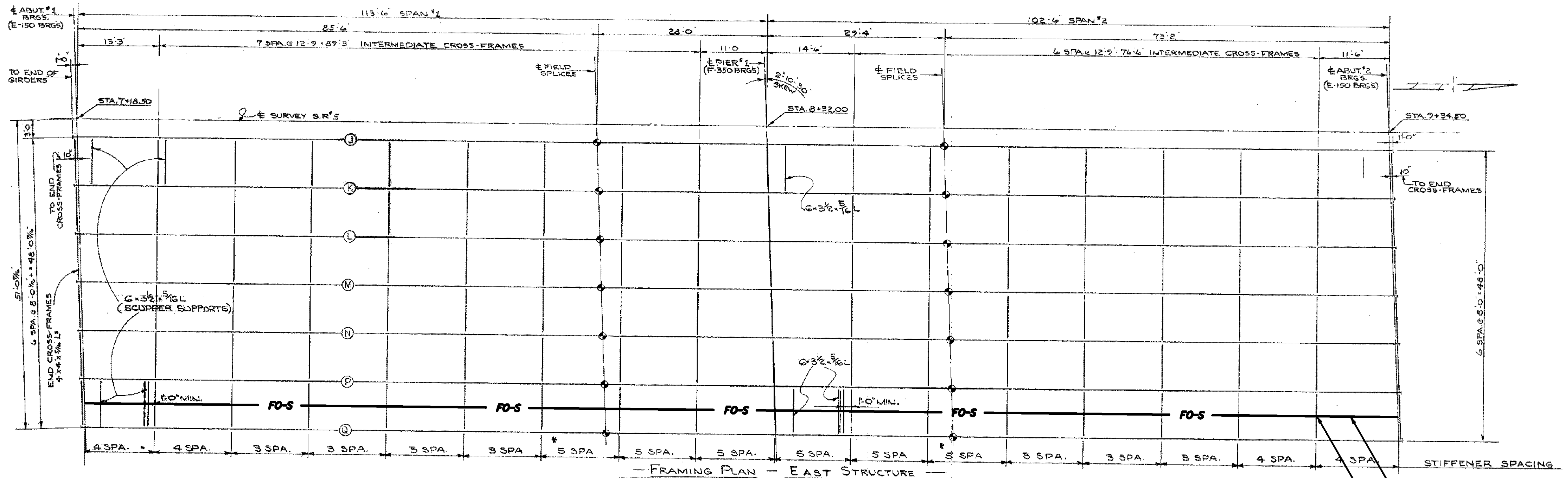
NOTE: INCLUDE EXPANSION COUPLING FOR FO-S AT ALL EXPANSION JOINTS INDICATED.

\* THESE SHEETS WERE TAKEN FROM ODOT RECORD PLANS AND ARE ONLY TO BE USED TO SHOW PROPOSED LOCATIONS OF CONDUIT, HANGERS AND EXPANSION COUPLINGS ON BRIDGE STRUCTURES AS NEEDED.

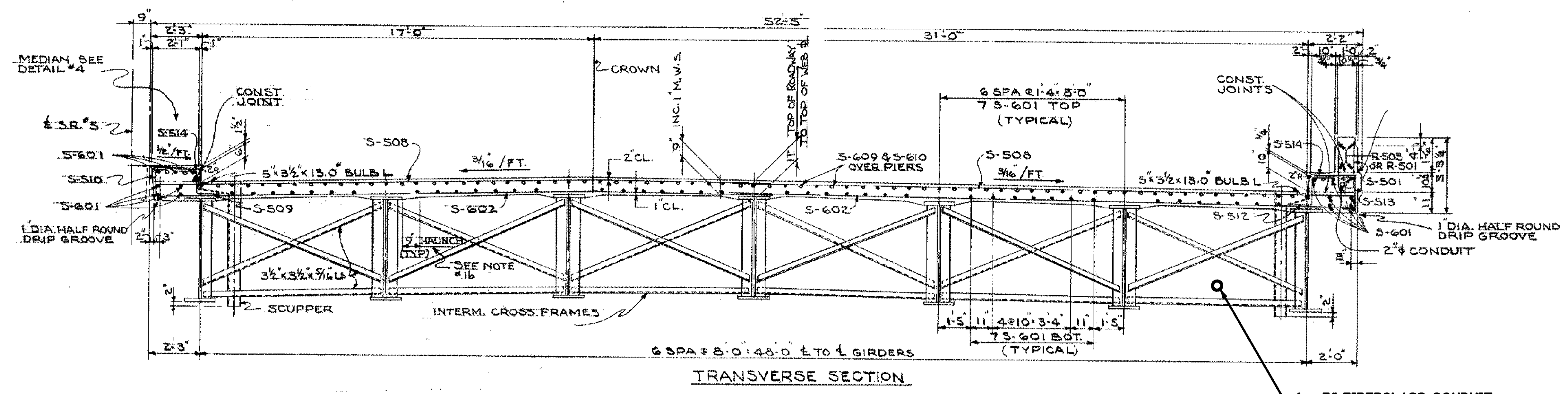
REFER TO SHEET 66 FOR PLAN SHEET

DESIGN AGENCY OHIO DEPARTMENT OF TRANSPORTATION	DATE	STRUCTURE FILE NUMBER
	REVIEWED	7705611
DRAWN GM	CHECKED JDC	DESIGNED RAW
		REVISION GM
CONDUIT ATTACHED TO STRUCTURE DETAIL		
BRIDGE NO. SUM-76-0659		
INTERSTATE 76 OVER INTERSTATE 277		
STA - SUM ITS	PID No. 77482	
203 390		





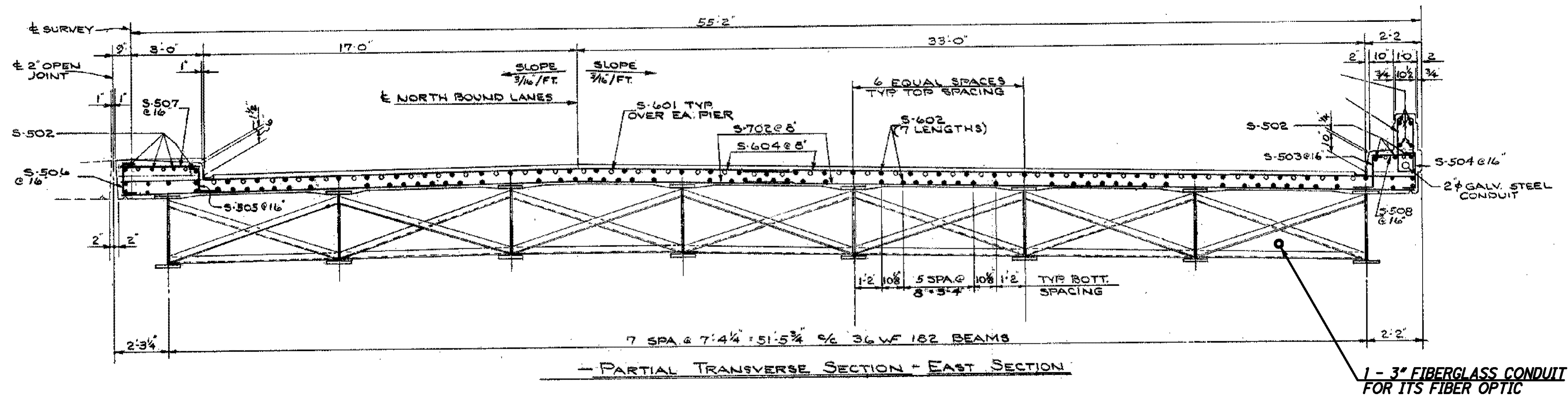
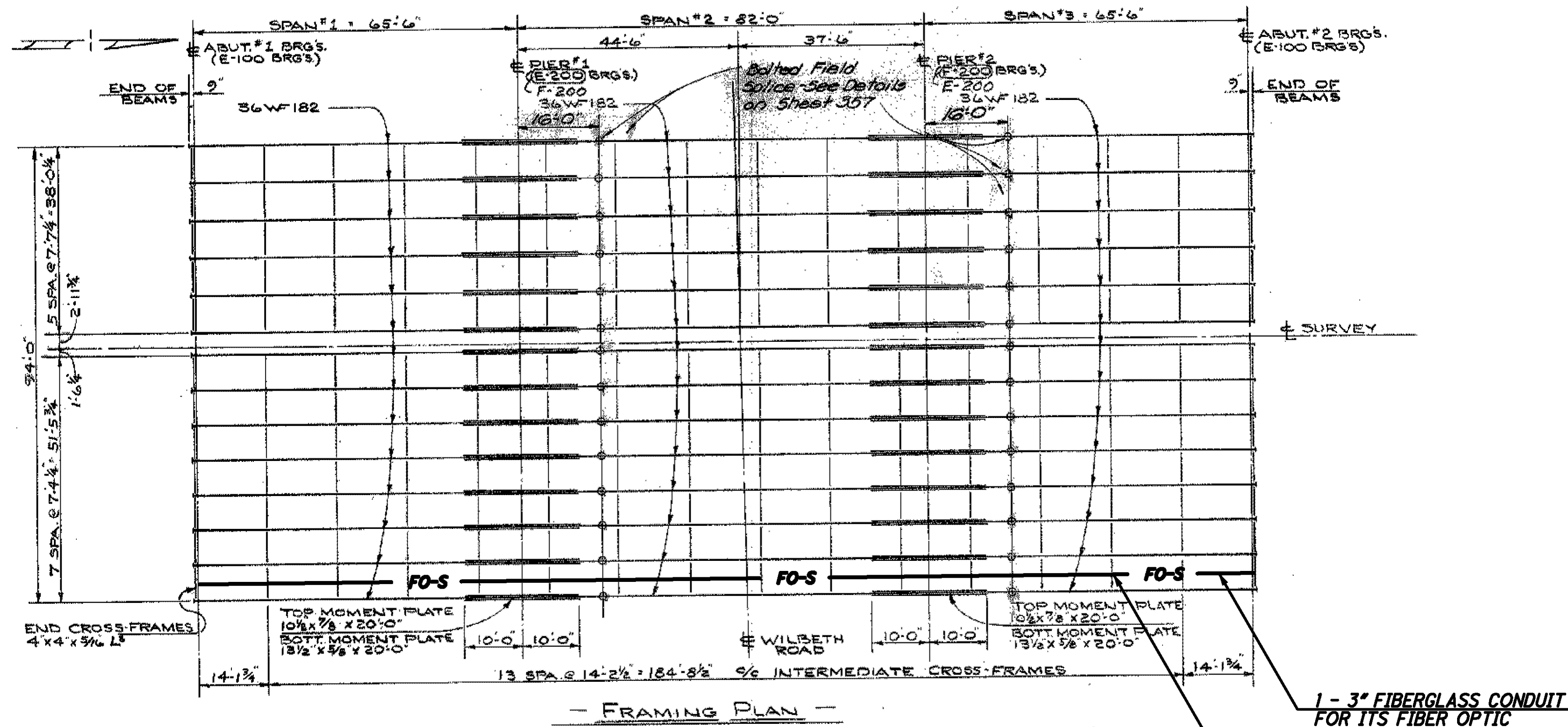
1 - 3" FIBERGLASS CONDUIT FOR ITS FIBER OPTIC  
 SEE DETAIL ON SHEET 13 FOR CROSS FRAME ATTACHMENT TYP.



1 - 3" FIBERGLASS CONDUIT FOR ITS FIBER OPTIC

NOTE: INCLUDE EXPANSION COUPLING FOR FO-S AT ALL EXPANSION JOINTS INDICATED.  
 \* THESE SHEETS WERE TAKEN FROM ODOT RECORD PLANS AND ARE ONLY TO BE USED TO SHOW PROPOSED LOCATIONS OF CONDUIT, HANGERS AND EXPANSION COUPLINGS ON BRIDGE STRUCTURES AS NEEDED.  
 REFER TO SHEET 67 FOR PLAN SHEET

DESIGN AGENCY OHIO DEPARTMENT OF TRANSPORTATION	DATE	STRUCTURE FILE NUMBER
	REVIEWED	7705646
DESIGNED	DRAWN	CHECKED
RAW	GM	JDG
REVISIONS	REVISIONS	REVISIONS
	GM	GM
CONDUIT ATTACHED TO STRUCTURE DETAIL		
BRIDGE NO. SUM-76-0672		
INTERSTATE 76 OVER CSX RR		
STA-SUM ITS	PID No. 77482	
204 390		



NOTE: INCLUDE EXPANSION COUPLING FOR FO-S AT ALL EXPANSION JOINTS INDICATED.

\* THESE SHEETS WERE TAKEN FROM ODOT RECORD PLANS AND ARE ONLY TO BE USED TO SHOW PROPOSED LOCATIONS OF CONDUIT, HANGERS AND EXPANSION COUPLINGS ON BRIDGE STRUCTURES AS NEEDED.

REFER TO SHEET 67 FOR PLAN SHEET

CONDUIT ATTACHED TO STRUCTURE DETAIL

BRIDGE NO. SUM-76-0684  
INTERSTATE 76 OVER WILBETH ROAD

STA-SUM ITS  
PID No. 77482

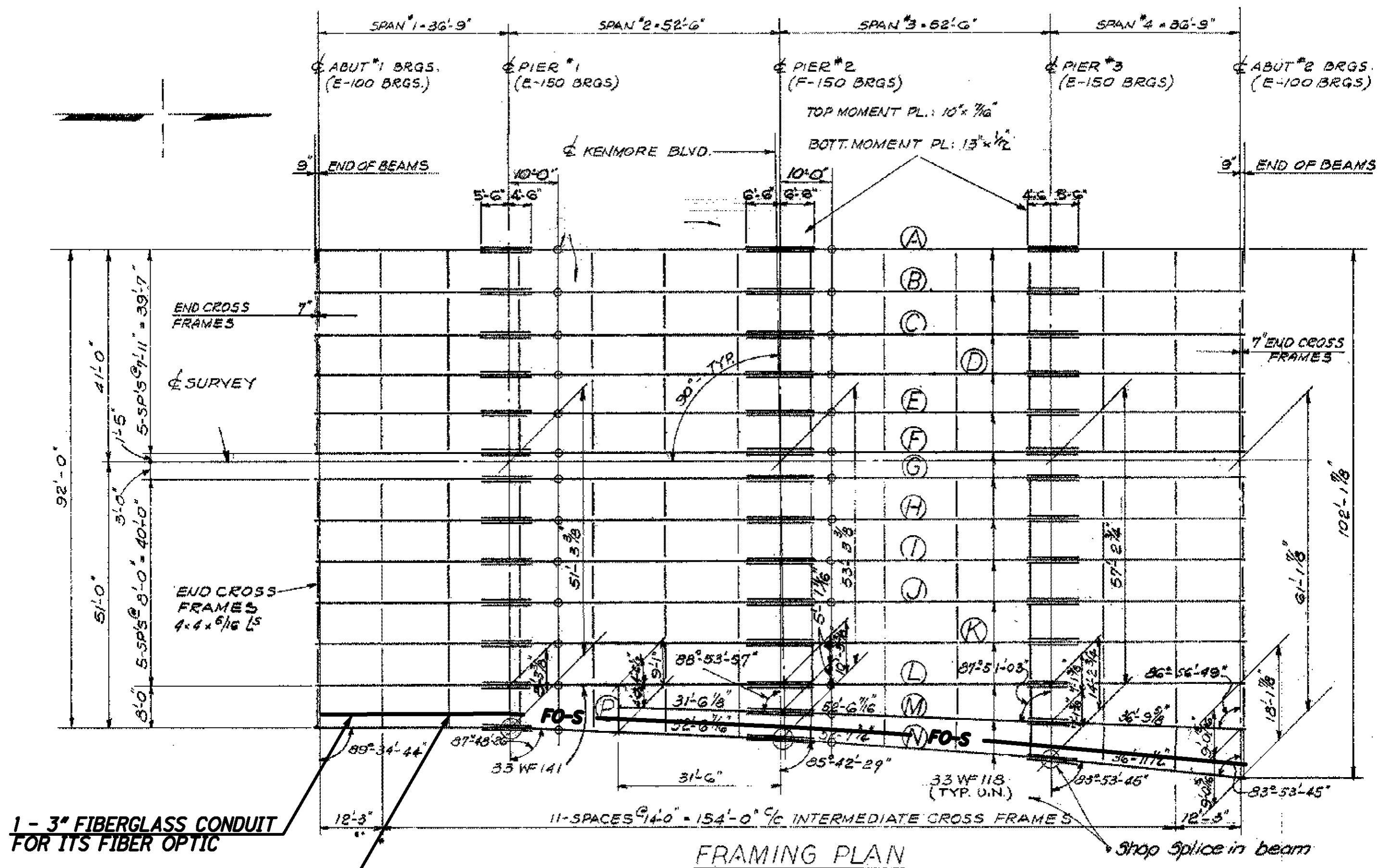
DESIGN AGENCY  
OHIO DEPARTMENT  
OF TRANSPORTATION

REVIEWED  
DATE  
STRUCTURE FILE NUMBER  
7705670

DRAWN  
GM  
REVISION  
GM

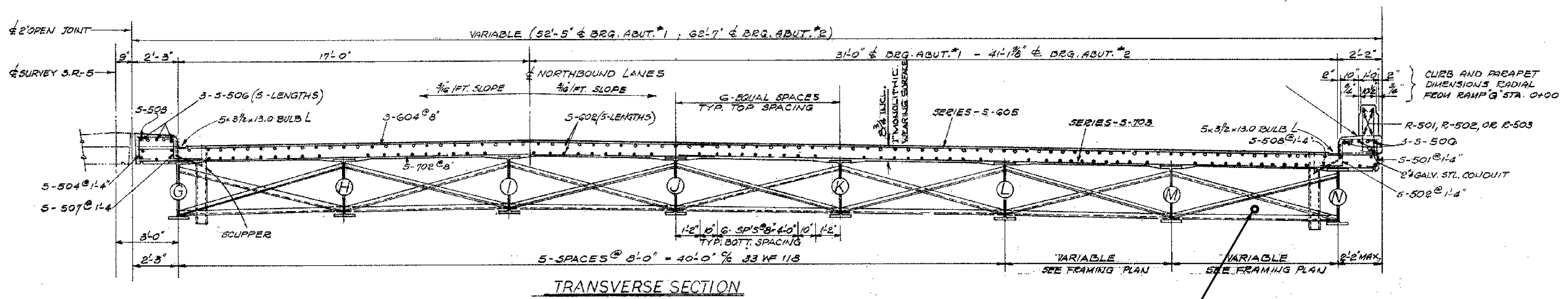
DESIGNED  
RAW  
CHECKED  
JDG





1 - 3" FIBERGLASS CONDUIT FOR ITS FIBER OPTIC

SEE DETAIL ON SHEET 13 FOR CROSS FRAME ATTACHMENT TYP.



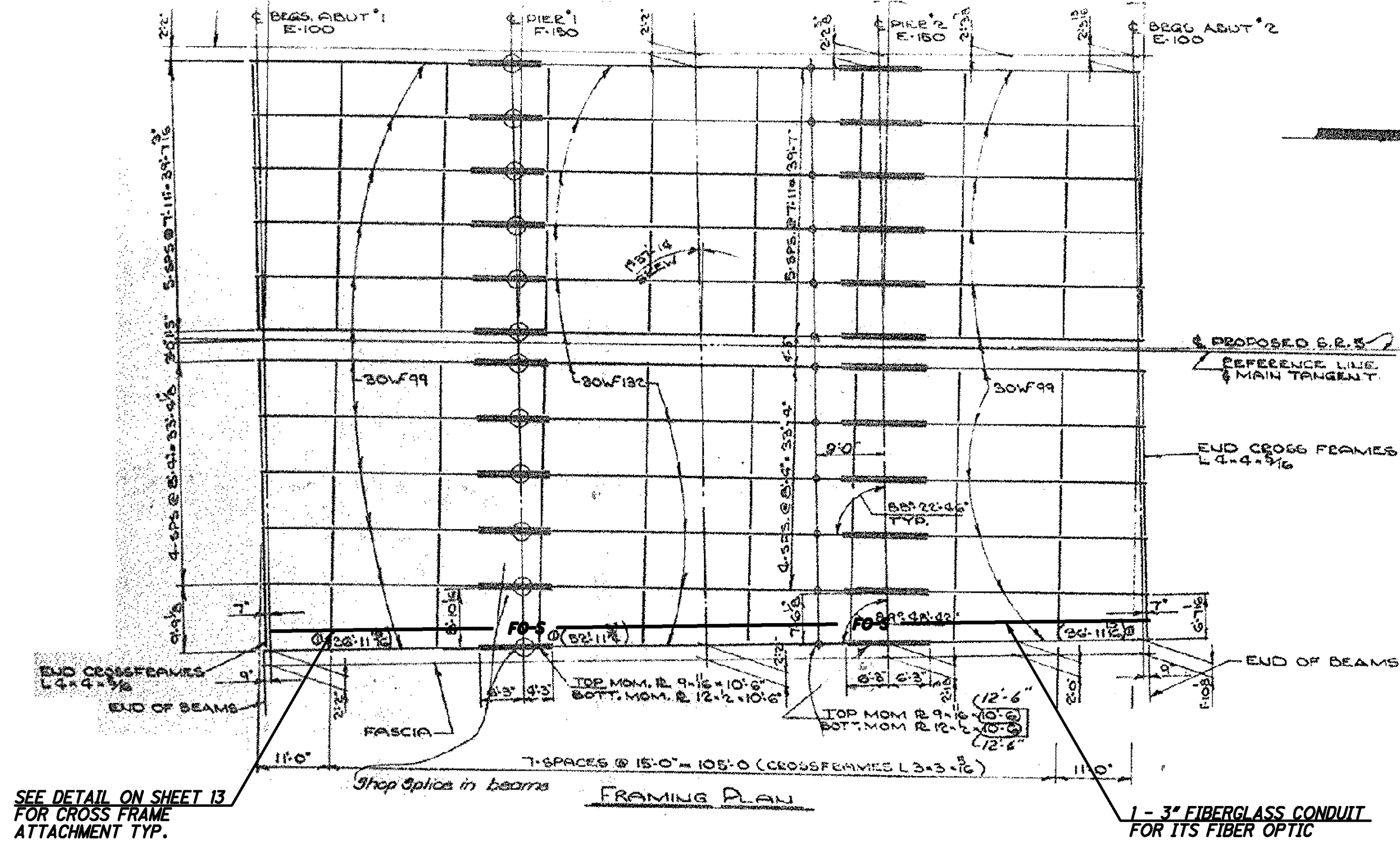
1 - 3" FIBERGLASS CONDUIT FOR ITS FIBER OPTIC

NOTE: INCLUDE EXPANSION COUPLING FOR FO-S AT ALL EXPANSION JOINTS INDICATED.

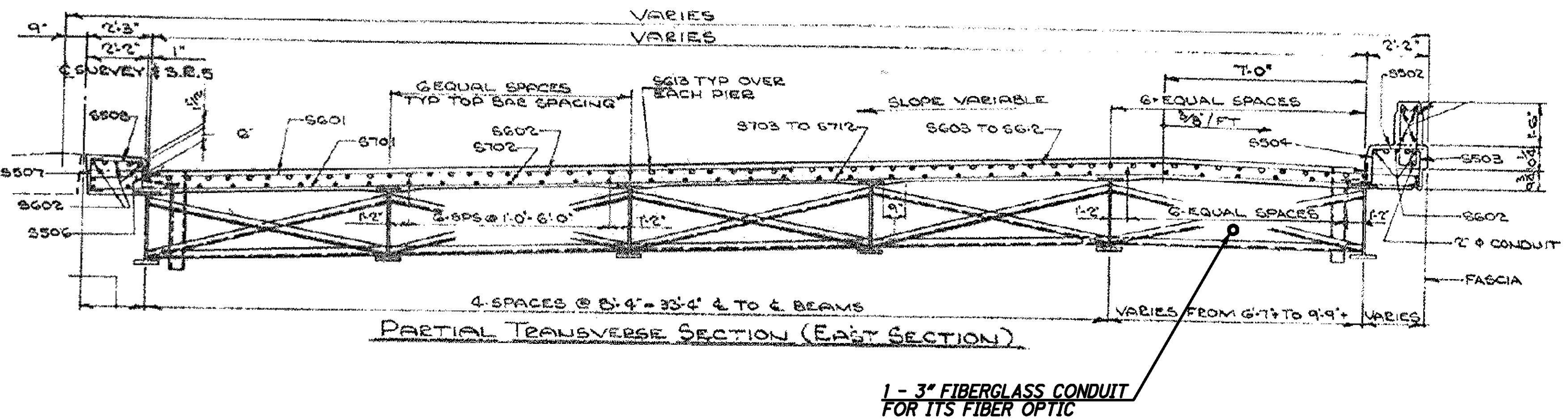
\* THESE SHEETS WERE TAKEN FROM ODOT RECORD PLANS AND ARE ONLY TO BE USED TO SHOW PROPOSED LOCATIONS OF CONDUIT, HANGERS AND EXPANSION COUPLINGS ON BRIDGE STRUCTURES AS NEEDED.

REFER TO SHEET 67 FOR PLAN SHEET

DESIGN AGENCY OHIO DEPARTMENT OF TRANSPORTATION	DATE	STRUCTURE FILE NUMBER
	REVIEWED	7705700
DRAWN GM	CHECKED JDC	REVISION
		GM
CONDUIT ATTACHED TO STRUCTURE DETAIL		
BRIDGE NO. SUM-76-0700		
INTERSTATE 76 OVER KENMORE BLVD.		
STA - SUM ITS	PID No. 77482	
		206 390



SEE DETAIL ON SHEET 13 FOR CROSS FRAME ATTACHMENT TYP.

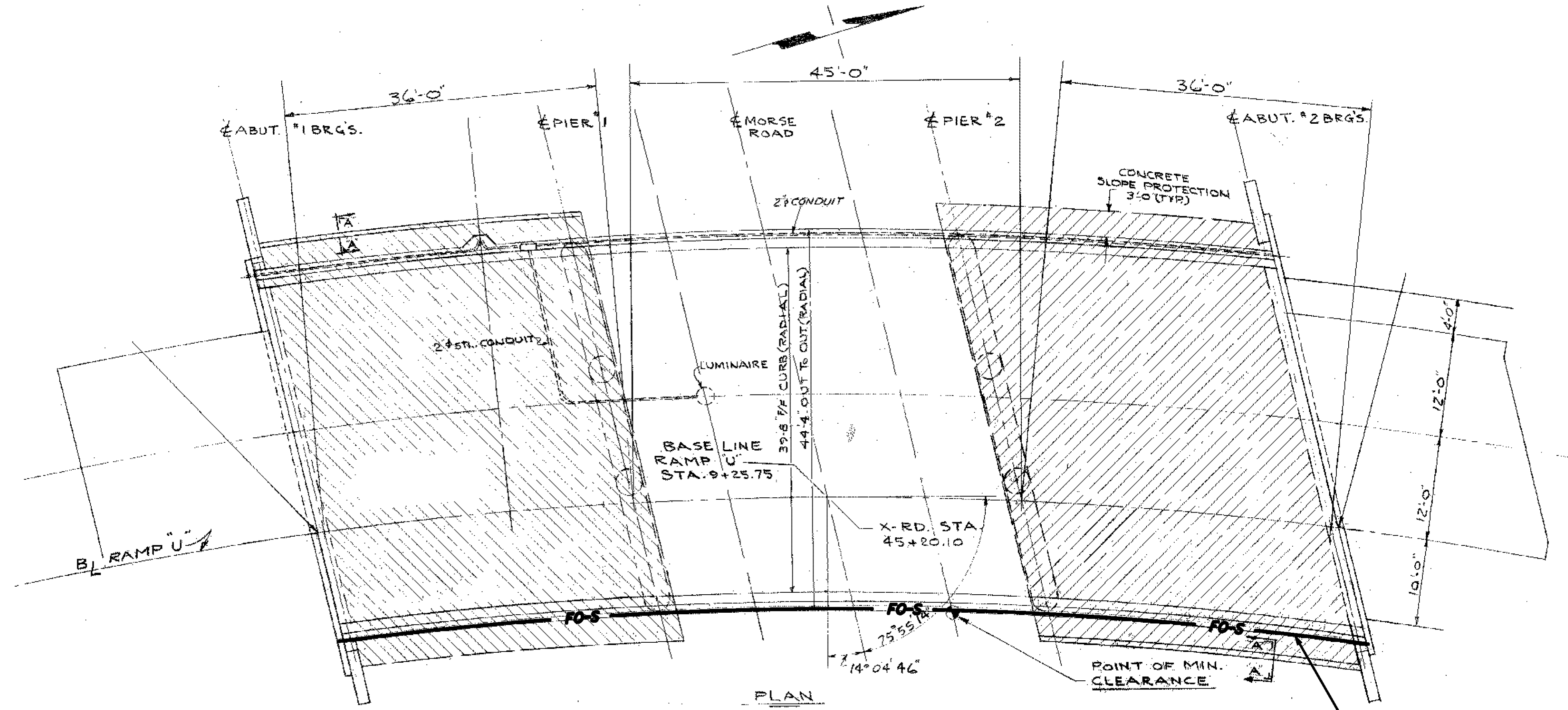


NOTE: INCLUDE EXPANSION COUPLING FOR FO-S AT ALL EXPANSION JOINTS INDICATED.

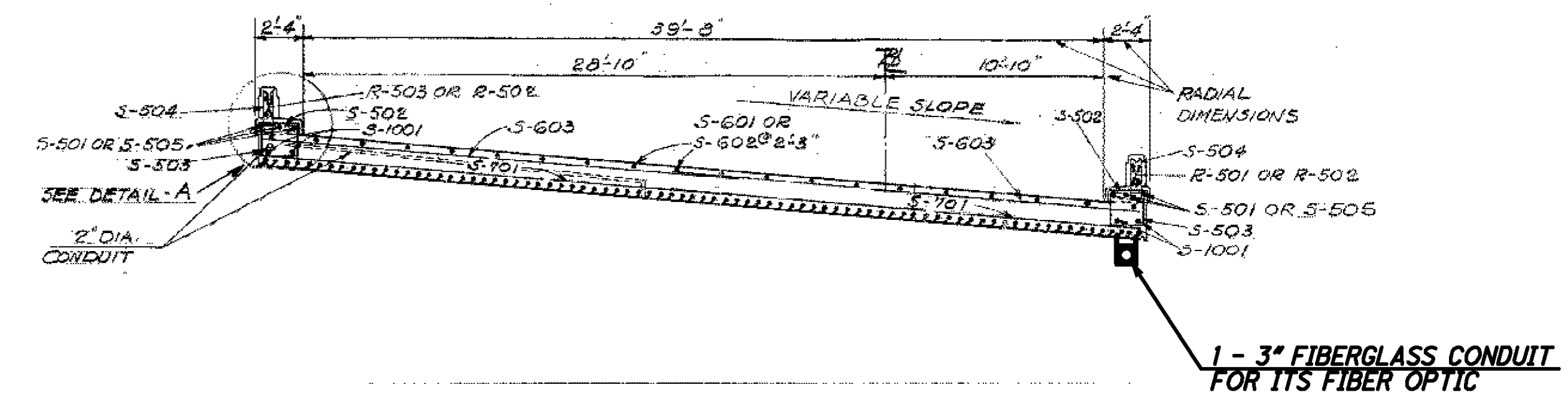
\* THESE SHEETS WERE TAKEN FROM ODOT RECORD PLANS AND ARE ONLY TO BE USED TO SHOW PROPOSED LOCATIONS OF CONDUIT, HANGERS AND EXPANSION COUPLINGS ON BRIDGE STRUCTURES AS NEEDED.

REFER TO SHEET 68 FOR PLAN SHEET

DESIGN AGENCY OHIO DEPARTMENT OF TRANSPORTATION	DATE	REVIEWED	DRAWN	DESIGNED
	STRUCTURE FILE NUMBER 7705735	GM	GM	RAW
CONDUIT ATTACHED TO STRUCTURE DETAIL BRIDGE NO. SUM-76-0735 INTERSTATE 76 OVER BATTLES AVE.	DATE	REVIEWED	DRAWN	DESIGNED
	STRUCTURE FILE NUMBER 7705735	GM	GM	RAW
STA - SUM ITS PID No. 77482	NOTE: INCLUDE EXPANSION COUPLING FOR FO-S AT ALL EXPANSION JOINTS INDICATED. * THESE SHEETS WERE TAKEN FROM ODOT RECORD PLANS AND ARE ONLY TO BE USED TO SHOW PROPOSED LOCATIONS OF CONDUIT, HANGERS AND EXPANSION COUPLINGS ON BRIDGE STRUCTURES AS NEEDED. REFER TO SHEET 68 FOR PLAN SHEET			
207 390				



**1 - 3" FIBERGLASS CONDUIT FOR ITS FIBER OPTIC**



**SECTION B-B OR C-C**

**1 - 3" FIBERGLASS CONDUIT FOR ITS FIBER OPTIC**

NOTE: INCLUDE EXPANSION COUPLING FOR FO-S AT ALL EXPANSION JOINTS INDICATED.

\* THESE SHEETS WERE TAKEN FROM ODOT RECORD PLANS AND ARE ONLY TO BE USED TO SHOW PROPOSED LOCATIONS OF CONDUIT, HANGERS AND EXPANSION COUPLINGS ON BRIDGE STRUCTURES AS NEEDED.

REFER TO SHEET 70 FOR PLAN SHEET

**CONDUIT ATTACHED TO STRUCTURE DETAIL**

BRIDGE NO. SUM-76-0822  
INTERSTATE 76 OVER MORSE STREET

**STA - SUM ITS**

PID No. 77482

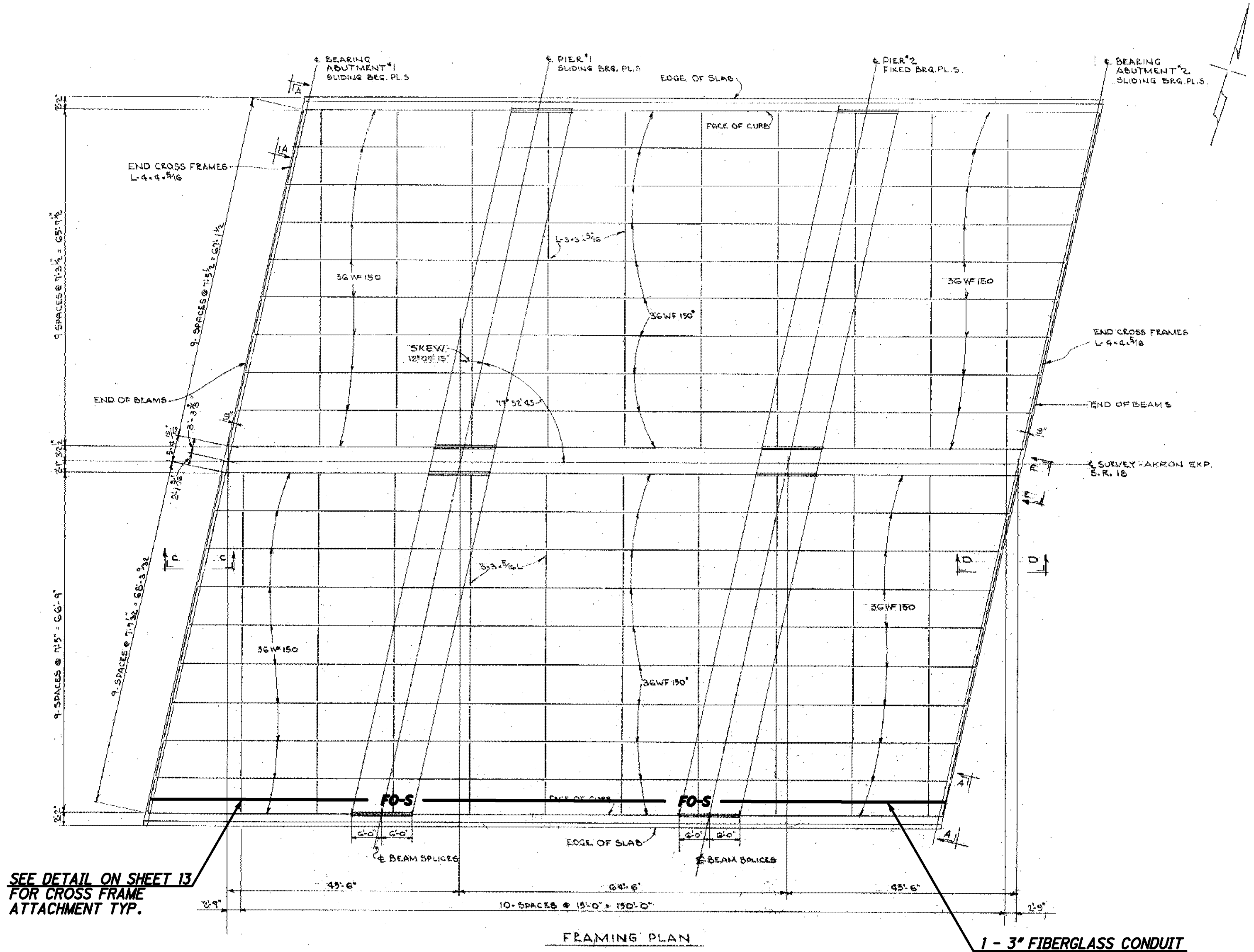
DESIGN AGENCY  
OHIO DEPARTMENT  
OF TRANSPORTATION

REVIEWED DATE  
STRUCTURE FILE NUMBER  
7705883UR

DRAWN GM  
REVISOR GM

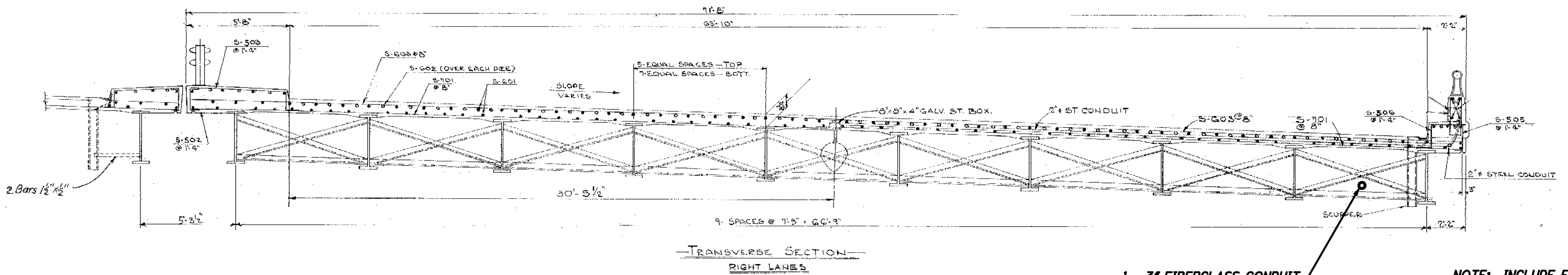
DESIGNED RAW  
CHECKED JDG





SEE DETAIL ON SHEET 13 FOR CROSS FRAME ATTACHMENT TYP.

1 - 3" FIBERGLASS CONDUIT FOR ITS FIBER OPTIC



1 - 3" FIBERGLASS CONDUIT FOR ITS FIBER OPTIC

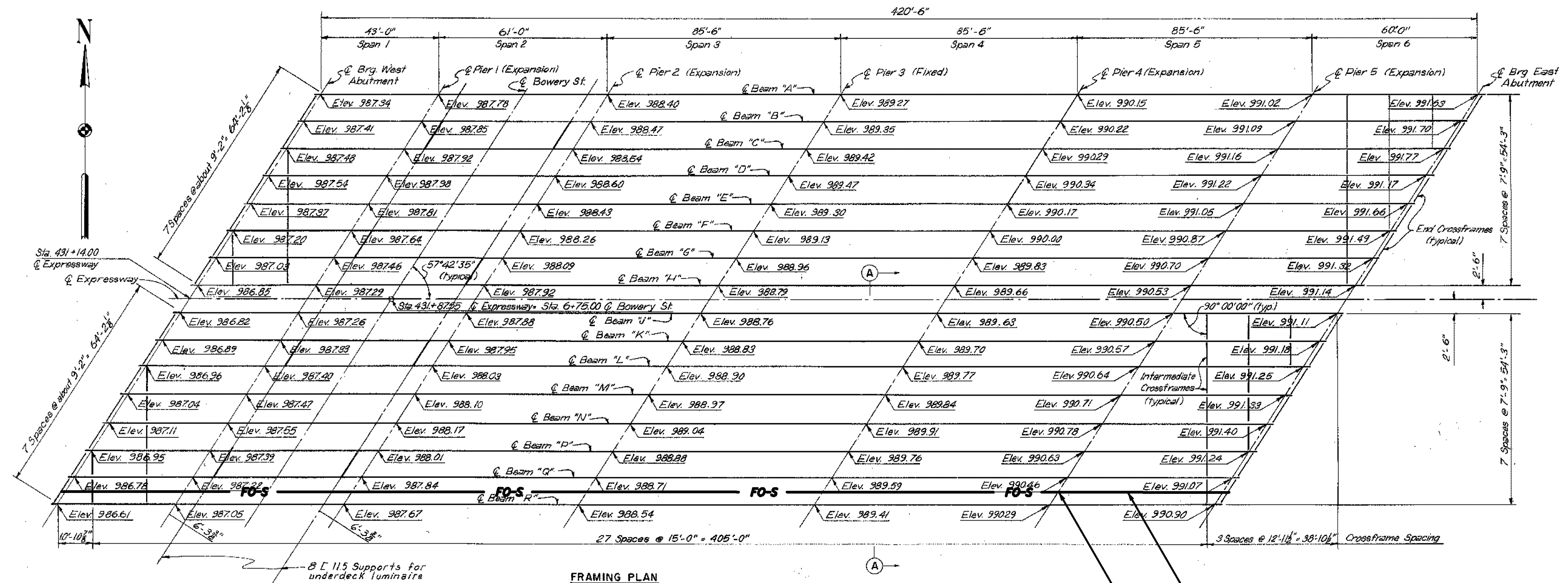
NOTE: INCLUDE EXPANSION COUPLING FOR FO-S AT ALL EXPANSION JOINTS INDICATED.

\* THESE SHEETS WERE TAKEN FROM ODOT RECORD PLANS AND ARE ONLY TO BE USED TO SHOW PROPOSED LOCATIONS OF CONDUIT, HANGERS AND EXPANSION COUPLINGS ON BRIDGE STRUCTURES AS NEEDED.

REFER TO SHEET 72 FOR PLAN SHEET

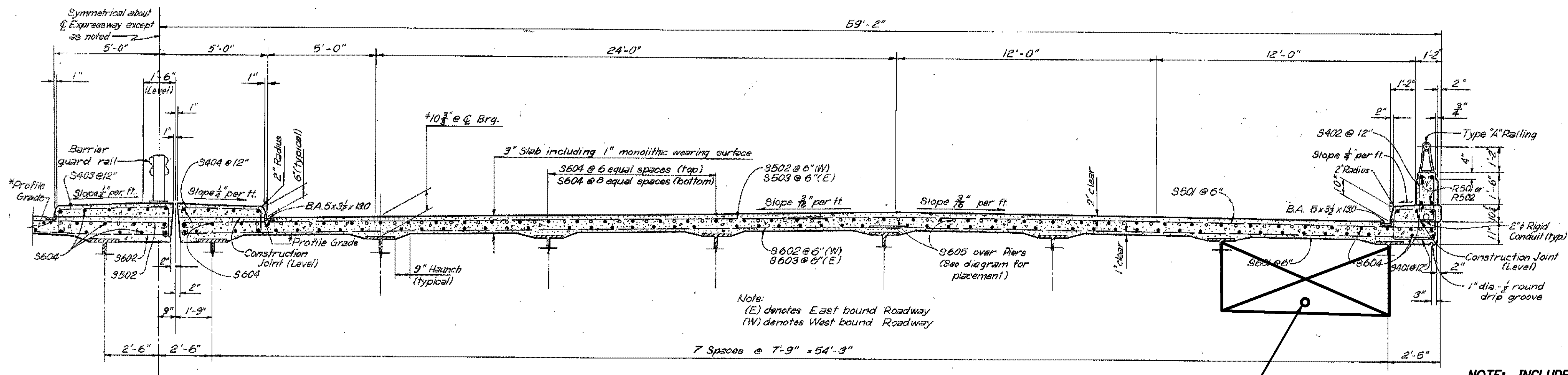
DESIGNED RAW CHECKED JDG	DRAWN GM REVISED GM	REVIEWED	DATE	DESIGN AGENCY
		STRUCTURE FILE NUMBER 7703481		OHIO DEPARTMENT OF TRANSPORTATION
CONDUIT ATTACHED TO STRUCTURE DETAIL				
BRIDGE NO. SUM-76-0914				
INTERSTATE 76 OVER MANCHESTER RD.				
STA - SUM ITS	PID No. 77482			
		209 390		

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FRAMING PLAN

1 - 3" FIBERGLASS CONDUIT FOR ITS FIBER OPTIC  
SEE DETAIL ON SHEET 13 FOR CROSS FRAME ATTACHMENT TYP.



SECTION A-A  
Scale: 3/8" = 1'-0"

1 - 3" FIBERGLASS CONDUIT FOR ITS FIBER OPTIC

NOTE: INCLUDE EXPANSION COUPLING FOR FO-S AT ALL EXPANSION JOINTS INDICATED.

\* THESE SHEETS WERE TAKEN FROM ODOT RECORD PLANS AND ARE ONLY TO BE USED TO SHOW PROPOSED LOCATIONS OF CONDUIT, HANGERS AND EXPANSION COUPLINGS ON BRIDGE STRUCTURES AS NEEDED.

REFER TO SHEET 73 FOR PLAN SHEET

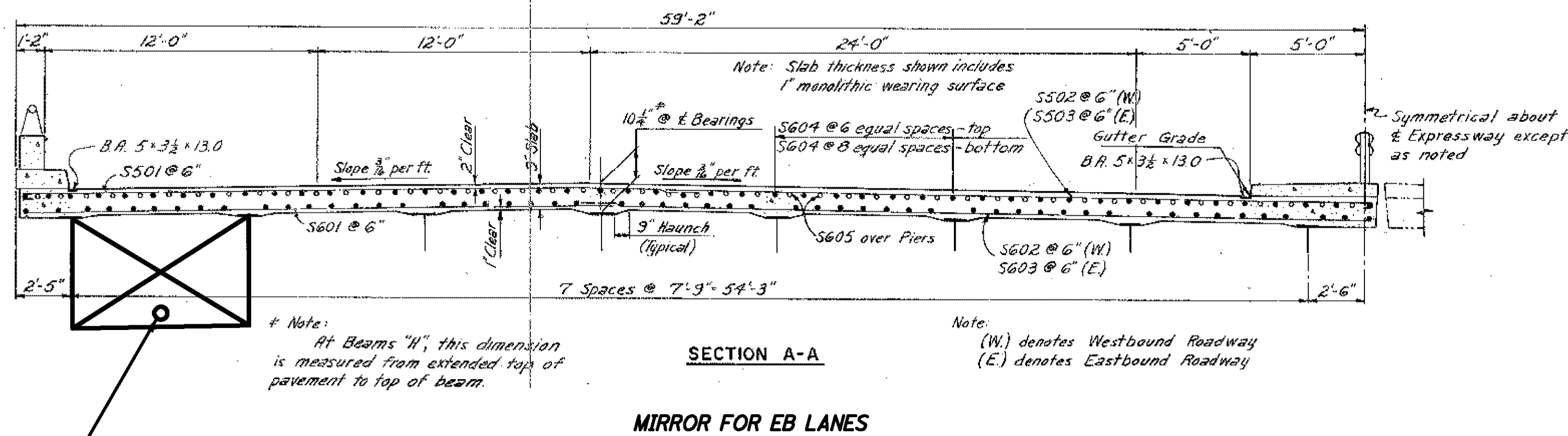
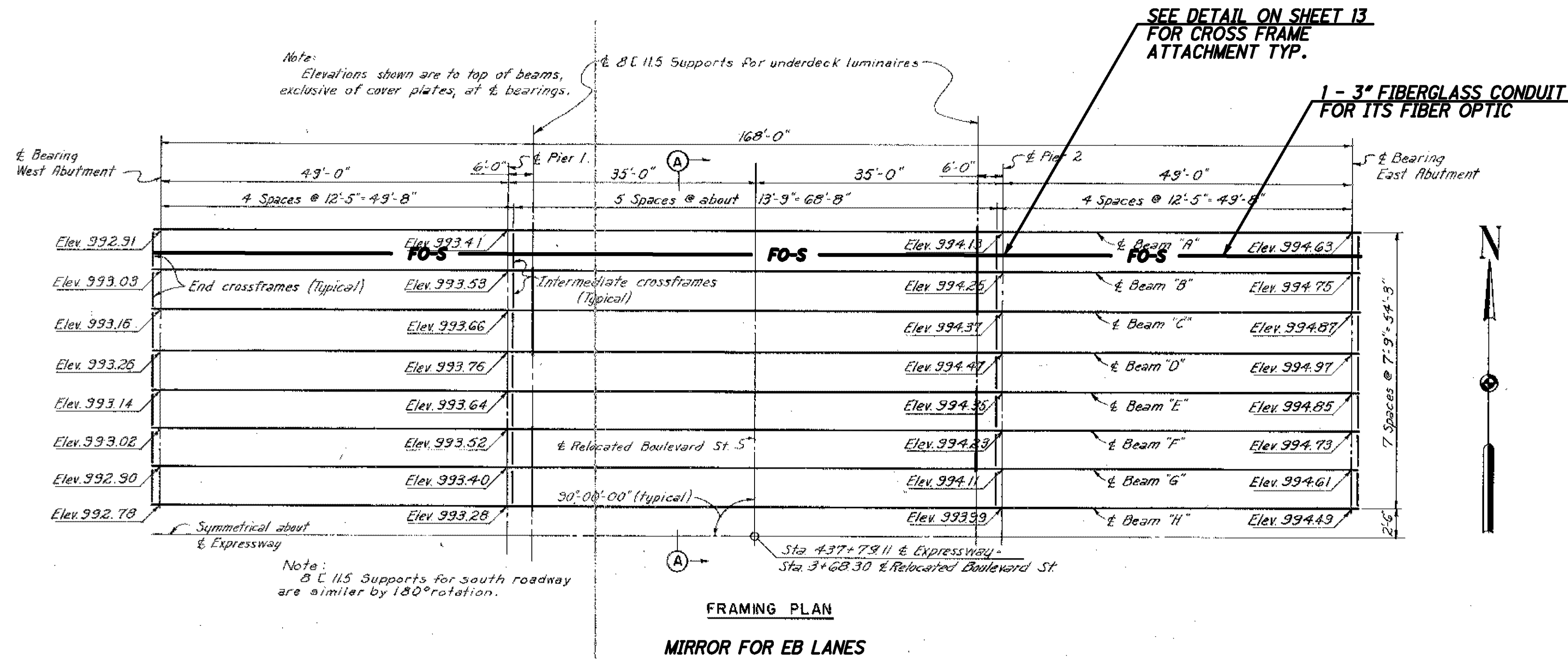
CONDUIT ATTACHED TO STRUCTURE DETAIL  
BRIDGE NO. SUM-76-0956  
INTERSTATE 76 OVER BOWERY STREET

STA-SUM ITS  
PID No. 77482

DESIGN AGENCY  
OHIO DEPARTMENT OF TRANSPORTATION

DESIGNED	RAW	CHECKED	JDC
DRAWN	GM	REVIEWED	GM
DATE	STRUCTURE FILE NUMBER	7703457	





1 - 3" FIBERGLASS CONDUIT FOR ITS FIBER OPTIC

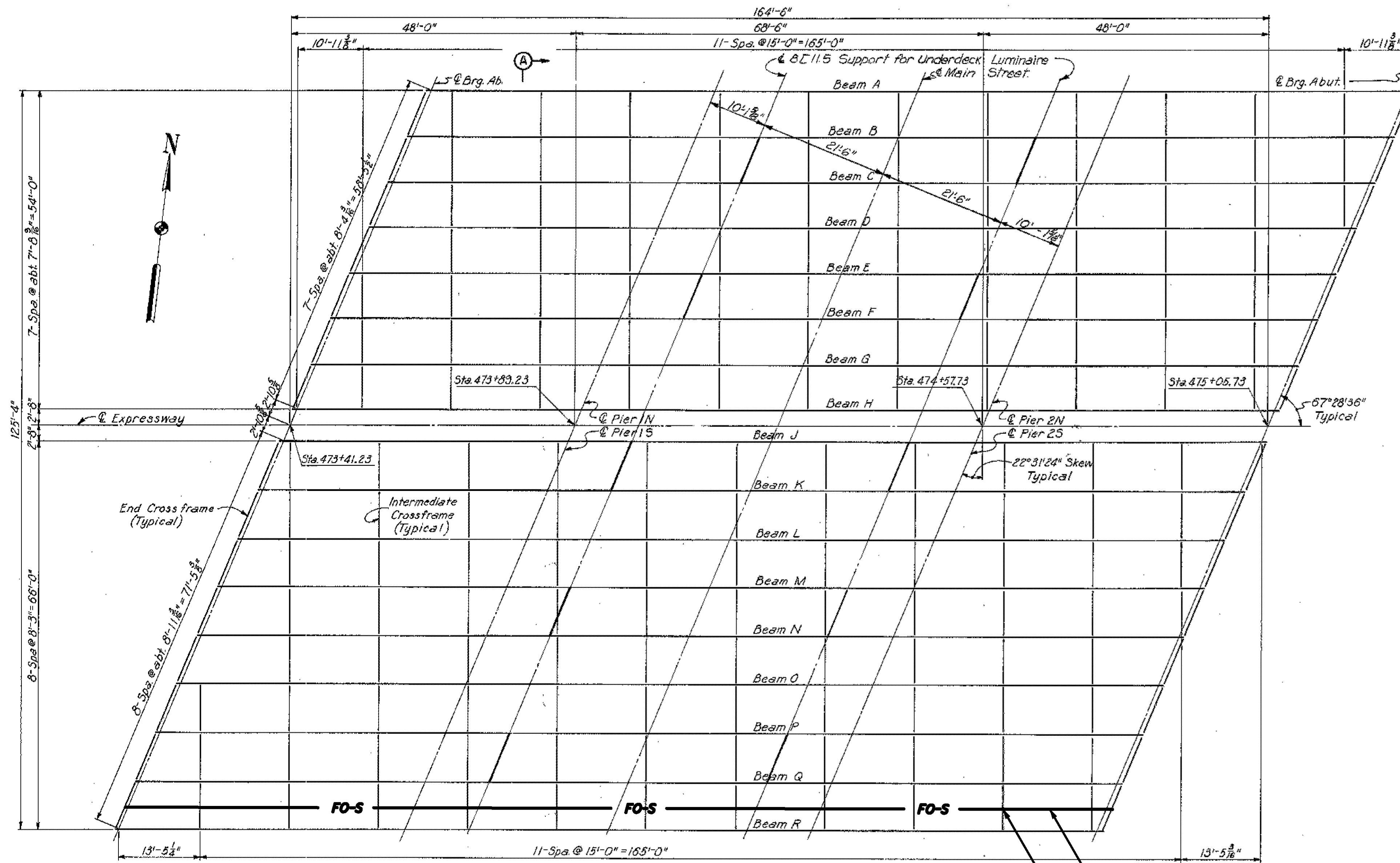
NOTE: INCLUDE EXPANSION COUPLING FOR FO-S AT ALL EXPANSION JOINTS INDICATED.

\* THESE SHEETS WERE TAKEN FROM ODOT RECORD PLANS AND ARE ONLY TO BE USED TO SHOW PROPOSED LOCATIONS OF CONDUIT, HANGERS AND EXPANSION COUPLINGS ON BRIDGE STRUCTURES AS NEEDED.

REFER TO SHEET 73 FOR PLAN SHEET

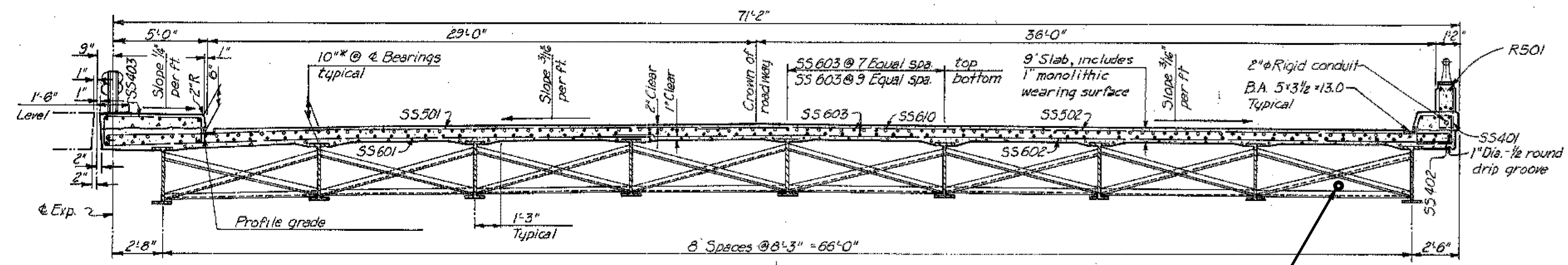
DESIGN AGENCY OHIO DEPARTMENT OF TRANSPORTATION	
DATE	STRUCTURE FILE NUMBER
REVIEWED	7703392
DRAWN GM	REVISION GM
DESIGNED RAW	CHECKED JDC
CONDUIT ATTACHED TO STRUCTURE DETAIL	
BRIDGE NO. SUM-76-0970	
INTERSTATE 76 OVER LAKESHORE BLVD.	
STA - SUM ITS	PID No. 77482
211 390	

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**FRAMING PLAN**  
Scale: 3/8" = 1'-0"

1 - 3" FIBERGLASS CONDUIT FOR ITS FIBER OPTIC  
SEE DETAIL ON SHEET 13 FOR CROSS FRAME ATTACHMENT TYP.



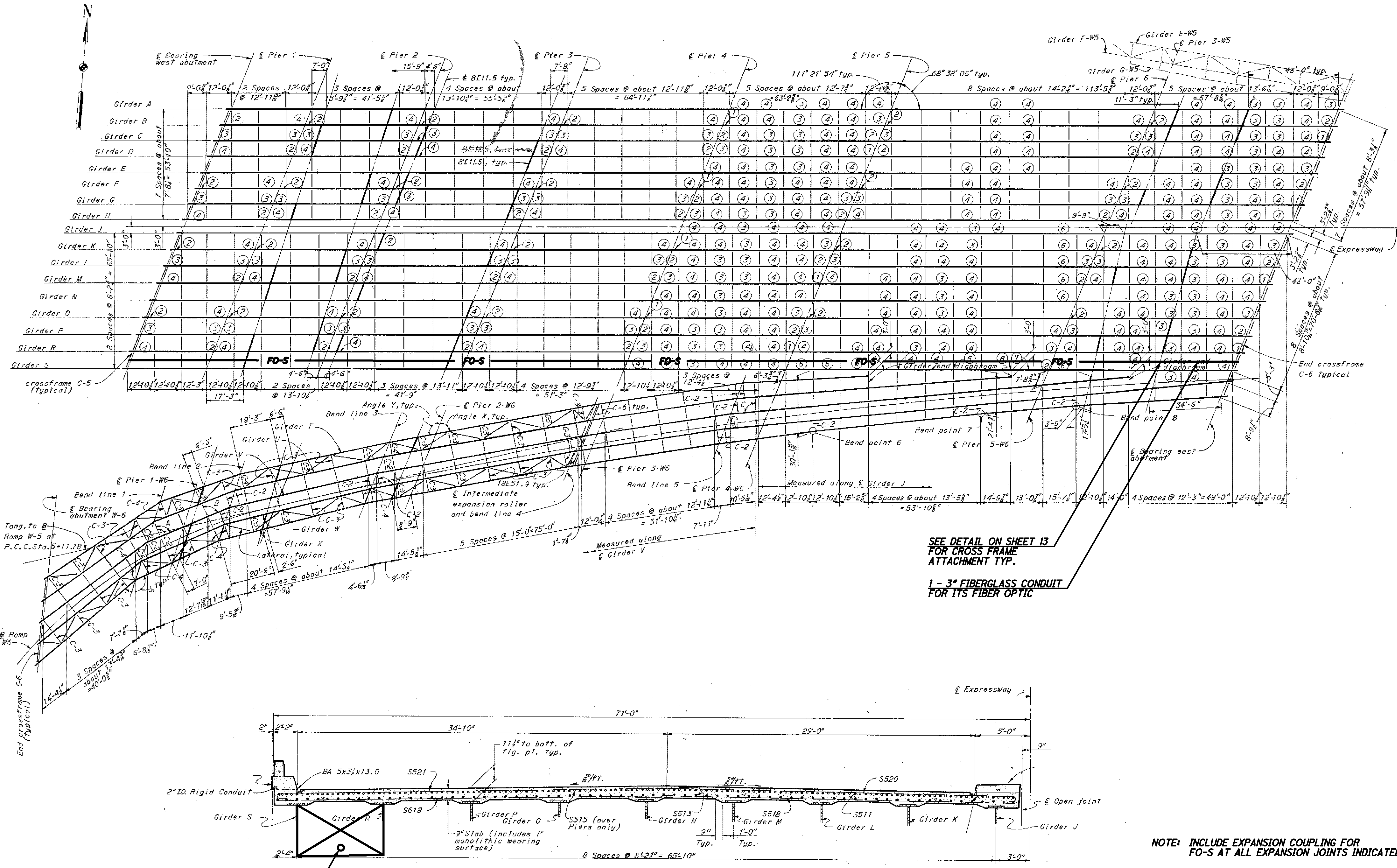
**SECTION A-A**  
Scale: 1/4" = 1'-0"

1 - 3" FIBERGLASS CONDUIT FOR ITS FIBER OPTIC

NOTE: INCLUDE EXPANSION COUPLING FOR FO-S AT ALL EXPANSION JOINTS INDICATED.  
\* THESE SHEETS WERE TAKEN FROM ODOT RECORD PLANS AND ARE ONLY TO BE USED TO SHOW PROPOSED LOCATIONS OF CONDUIT, HANGERS AND EXPANSION COUPLINGS ON BRIDGE STRUCTURES AS NEEDED.  
REFER TO SHEET 74 FOR PLAN SHEET

DESIGN AGENCY OHIO DEPARTMENT OF TRANSPORTATION	DATE	STRUCTURE FILE NUMBER
	REVIEWED	7703309
DRAWN GM	CHECKED JDC	DESIGNED RAW
		REVISIONS GM
CONDUIT ATTACHED TO STRUCTURE DETAIL		
BRIDGE NO. SUM-76-1036		
INTERSTATE 76 OVER MAIN STREET		
STA-SUM ITS	PID No. 77482	
212		390

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1 - 3" FIBERGLASS CONDUIT FOR ITS FIBER OPTIC

SECTION A-A SOUTH ROADWAY

SEE DETAIL ON SHEET 13 FOR CROSS FRAME ATTACHMENT TYP.

1 - 3" FIBERGLASS CONDUIT FOR ITS FIBER OPTIC

NOTE: INCLUDE EXPANSION COUPLING FOR FO-S AT ALL EXPANSION JOINTS INDICATED.

\* THESE SHEETS WERE TAKEN FROM ODOT RECORD PLANS AND ARE ONLY TO BE USED TO SHOW PROPOSED LOCATIONS OF CONDUIT, HANGERS AND EXPANSION COUPLINGS ON BRIDGE STRUCTURES AS NEEDED.

REFER TO SHEETS 74-75 FOR PLAN SHEET

DESIGN AGENCY  
OHIO DEPARTMENT  
OF TRANSPORTATION

DATE  
REVIEWED  
DRAWN  
DESIGNED

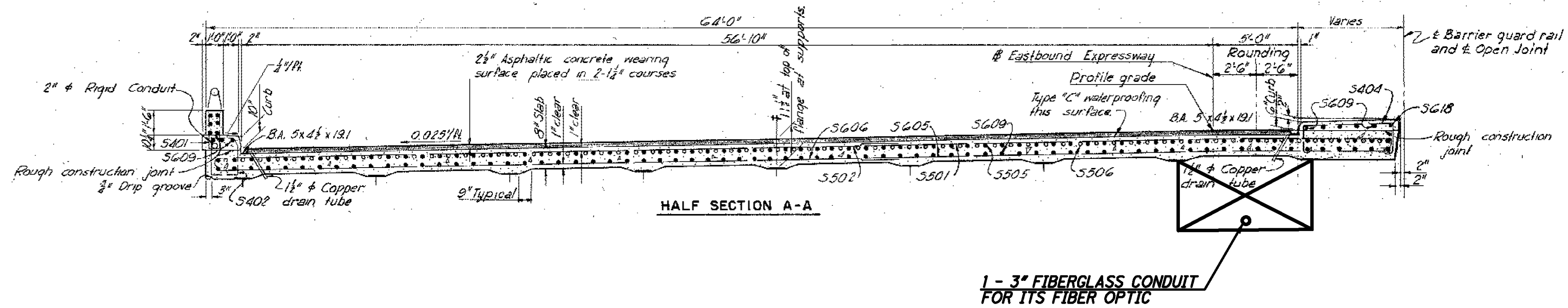
GM  
RAW  
JDC

STRUCTURE FILE NUMBER  
7703244

CONDUIT ATTACHED TO STRUCTURE DETAIL  
BRIDGE NO. SUM-76-1043  
INTERSTATE 76 OVER BROADWAY STREET

STA-SUM ITS  
PID No. 77482



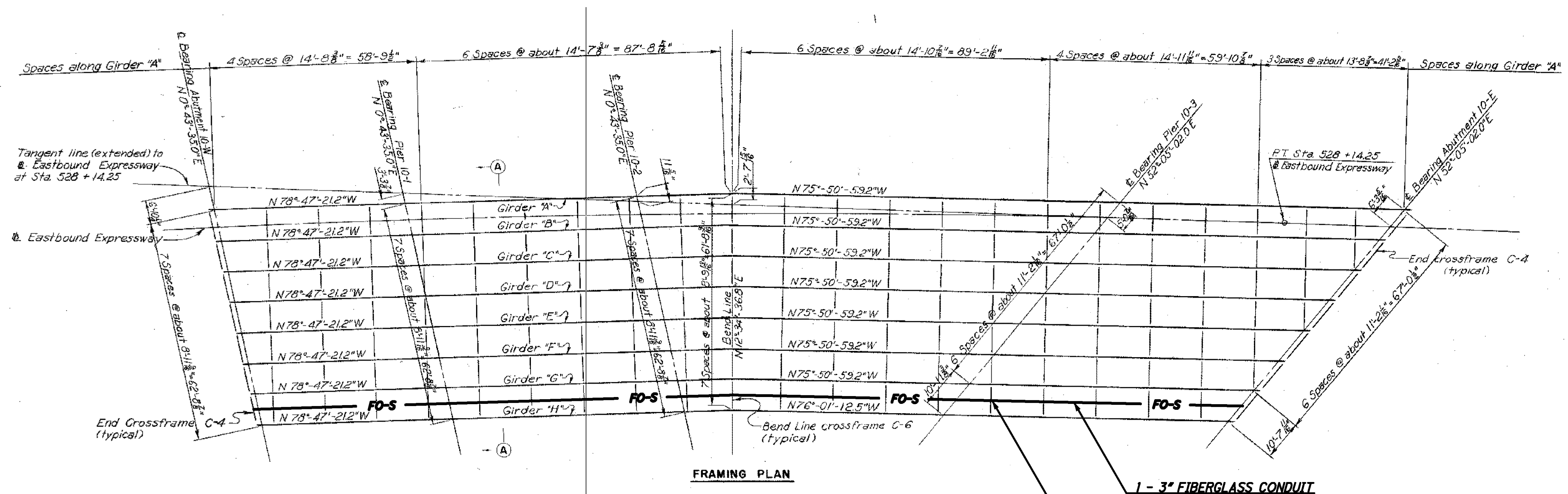


NOTE: INCLUDE EXPANSION COUPLING FOR FO-S AT ALL EXPANSION JOINTS INDICATED.

\* THESE SHEETS WERE TAKEN FROM ODOT RECORD PLANS AND ARE ONLY TO BE USED TO SHOW PROPOSED LOCATIONS OF CONDUIT, HANGERS AND EXPANSION COUPLINGS ON BRIDGE STRUCTURES AS NEEDED.

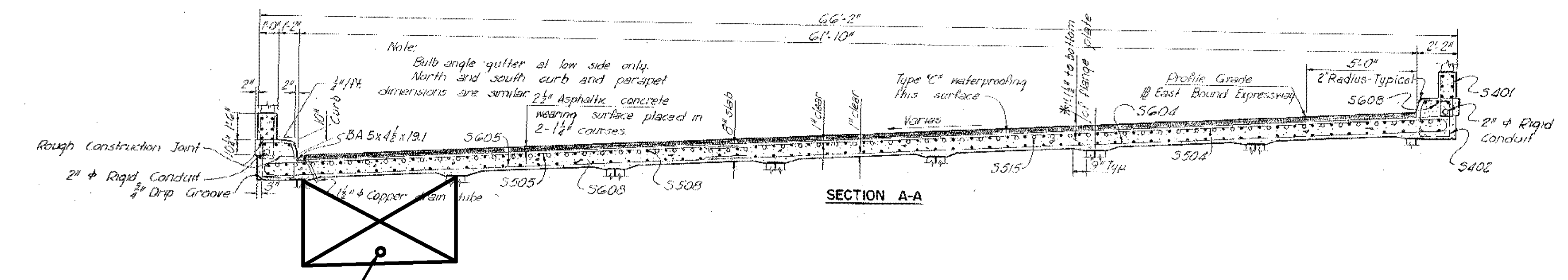
REFER TO SHEET 76 FOR PLAN SHEET

STA-SUM ITS PID No. 77482	CONDUIT ATTACHED TO STRUCTURE DETAIL		DESIGNED RAW CHECKED JDG	DRAWN GM REVISED GM	REVIEWED	DATE	DESIGN AGENCY OHIO DEPARTMENT OF TRANSPORTATION
	BRIDGE NO. SUM-76-1128 INTERSTATE 76 OVER BROWN STREET		STRUCTURE FILE NUMBER 7703031				
214 390							



**1 - 3" FIBERGLASS CONDUIT FOR ITS FIBER OPTIC**

SEE DETAIL ON SHEET 13 FOR CROSS FRAME ATTACHMENT TYP.



**1 - 3" FIBERGLASS CONDUIT FOR ITS FIBER OPTIC**

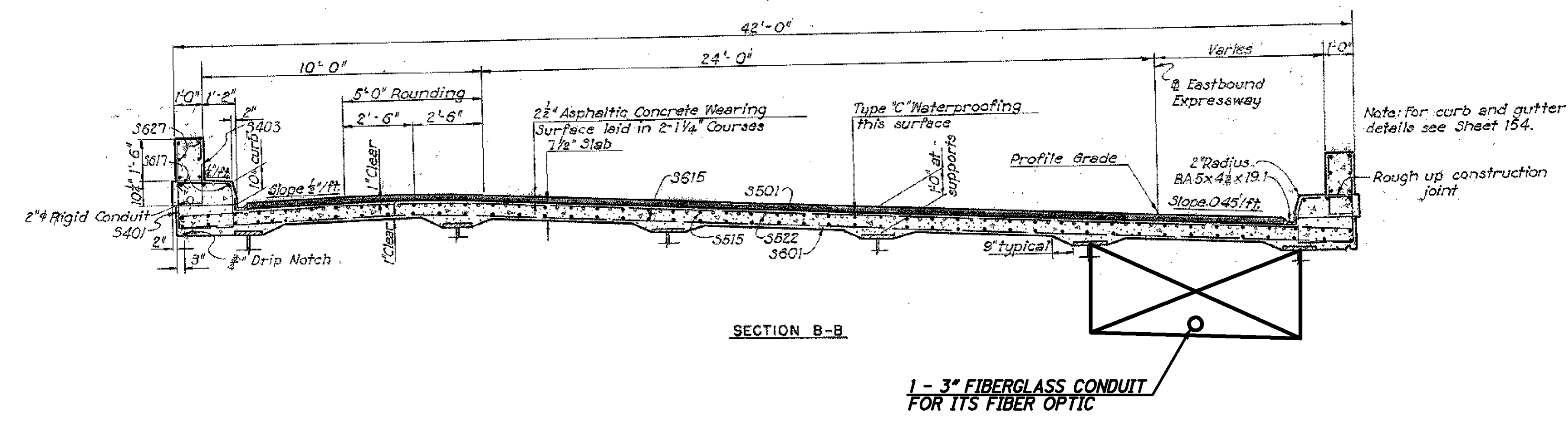
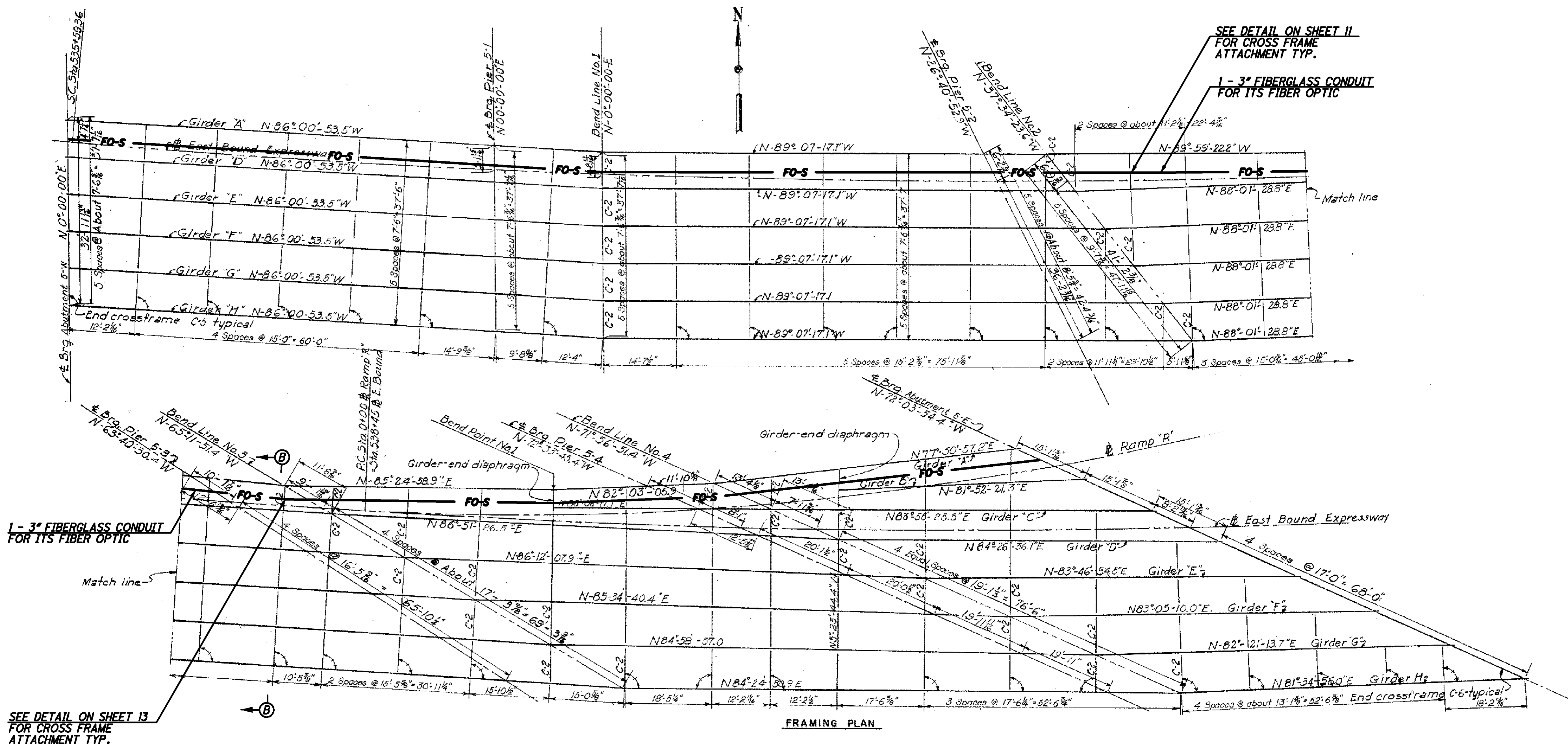
**NOTE: INCLUDE EXPANSION COUPLING FOR FO-S AT ALL EXPANSION JOINTS INDICATED.**

**\* THESE SHEETS WERE TAKEN FROM ODOT RECORD PLANS AND ARE ONLY TO BE USED TO SHOW PROPOSED LOCATIONS OF CONDUIT, HANGERS AND EXPANSION COUPLINGS ON BRIDGE STRUCTURES AS NEEDED.**

REFER TO SHEET 76 FOR PLAN SHEET

DESIGN AGENCY OHIO DEPARTMENT OF TRANSPORTATION	DATE	REVIEWED	DRAWN	DESIGNED
	STRUCTURE FILE NUMBER 7705948	GM	GM	RAW
			CHECKED	JDG
<b>CONDUIT ATTACHED TO STRUCTURE DETAIL</b>				
BRIDGE NO. SUM-76-1134				
INTERSTATE 76 OVER SPICER-JOHNSON STREET				
<b>STA - SUM ITS</b>				
PID No. 77482				
215 390				





SEE DETAIL ON SHEET 11  
FOR CROSS FRAME  
ATTACHMENT TYP.  
**1 - 3\"/>**

**1 - 3\"/>**

SEE DETAIL ON SHEET 13  
FOR CROSS FRAME  
ATTACHMENT TYP.

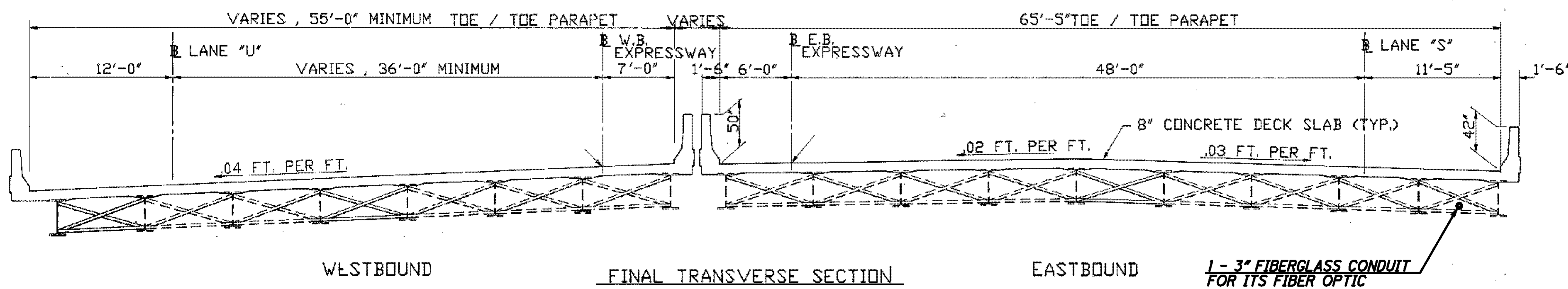
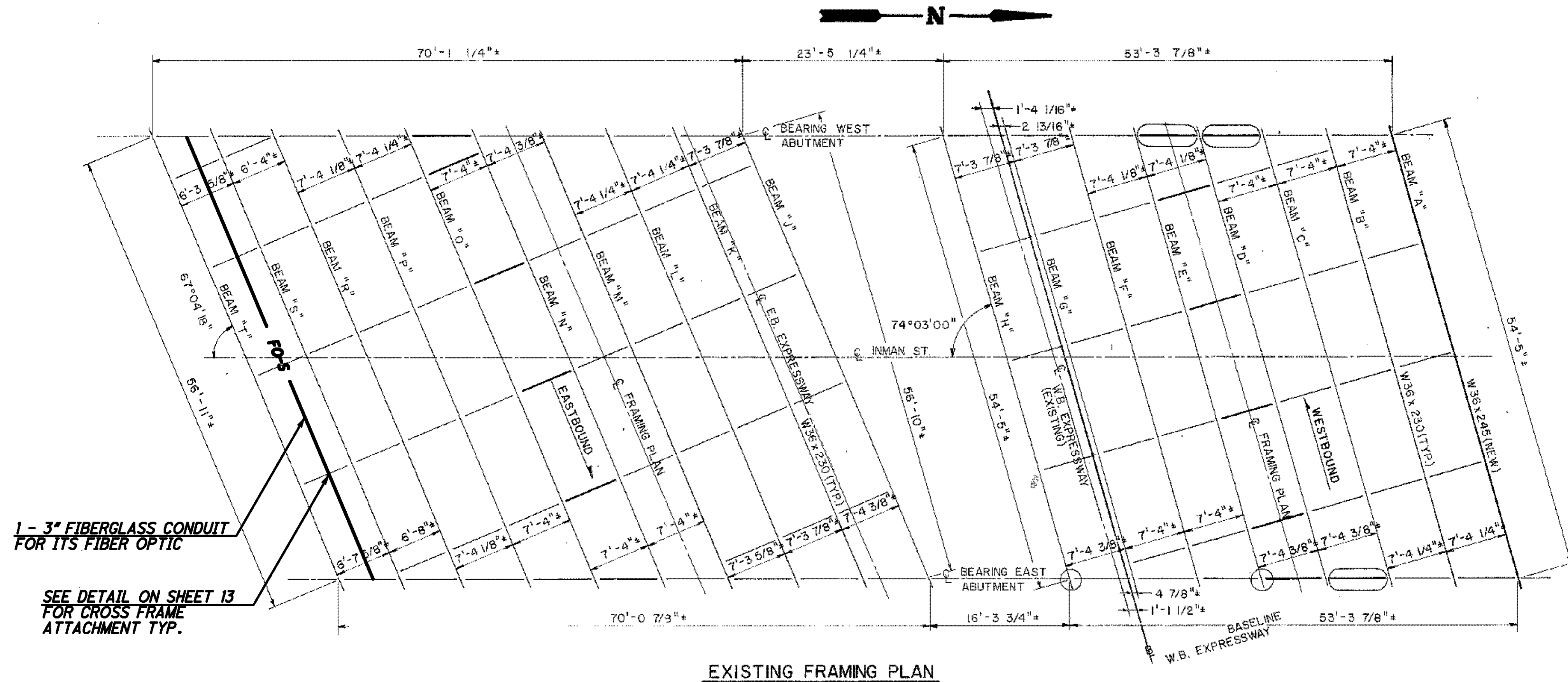
NOTE: INCLUDE EXPANSION COUPLING FOR FO-S AT ALL EXPANSION JOINTS INDICATED.

\* THESE SHEETS WERE TAKEN FROM ODOT RECORD PLANS AND ARE ONLY TO BE USED TO SHOW PROPOSED LOCATIONS OF CONDUIT, HANGERS AND EXPANSION COUPLINGS ON BRIDGE STRUCTURES AS NEEDED.

REFER TO SHEET 77 FOR PLAN SHEET

DESIGN AGENCY OHIO DEPARTMENT OF TRANSPORTATION	DATE	STRUCTURE FILE NUMBER
	REVIEWED	7706030
DRAWN GM	CHECKED JDC	DESIGNED RAW
		REVISIONS
STA - SUM ITS	BRIDGE NO. SUM-76-1154	CONDUIT ATTACHED TO STRUCTURE DETAIL
PID No. 77482	INTERSTATE 76 OVER INTERSTATE 77/STATE ROUTE 8	
216		
390		

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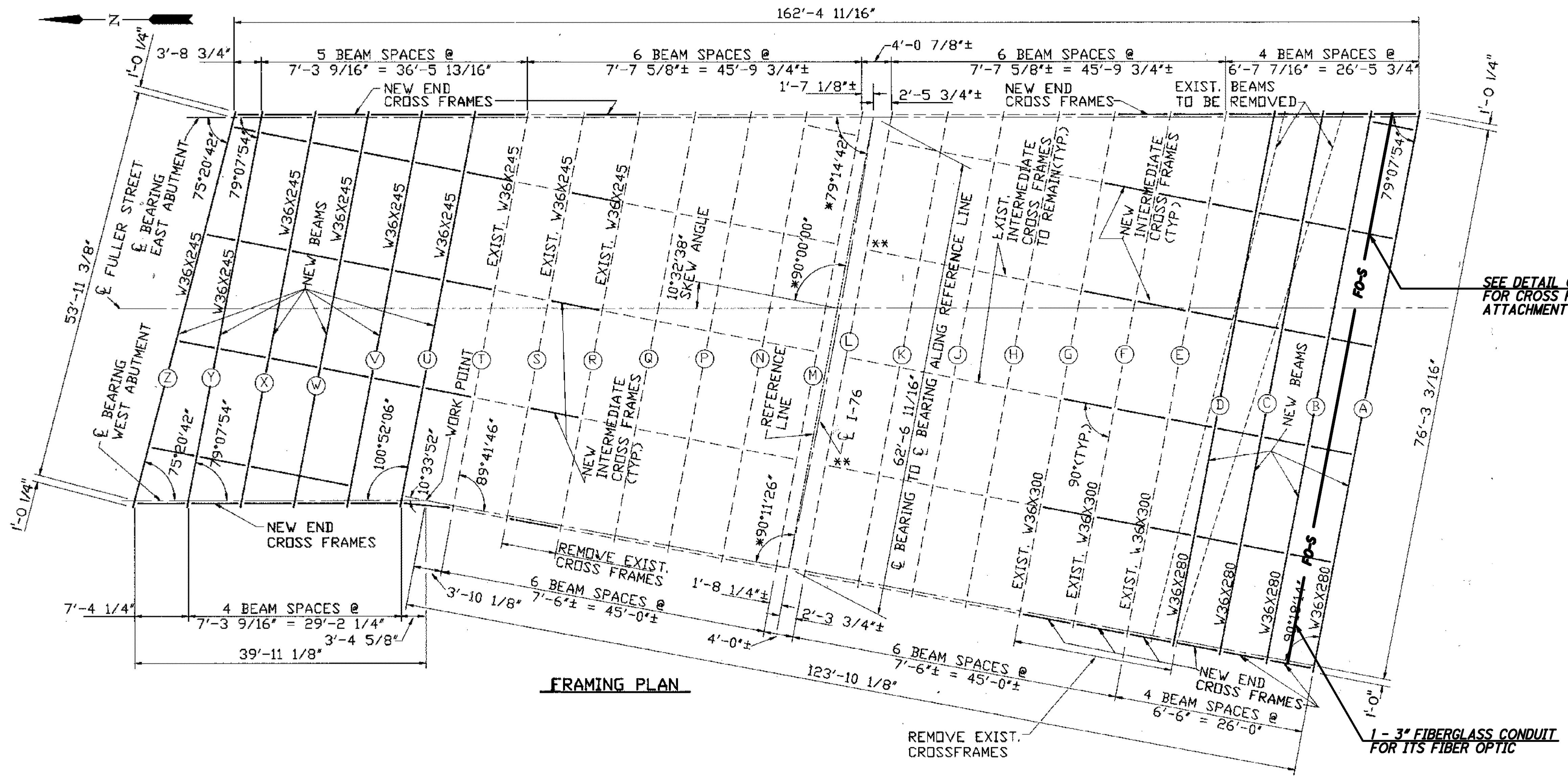


NOTE: INCLUDE EXPANSION COUPLING FOR FO-S AT ALL EXPANSION JOINTS INDICATED.

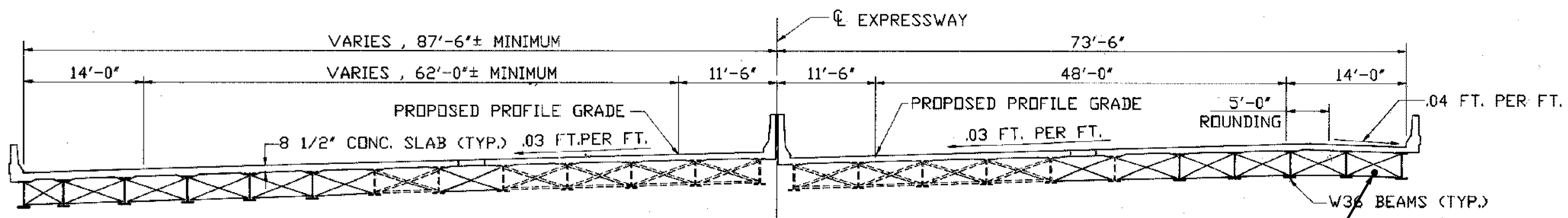
\* THESE SHEETS WERE TAKEN FROM ODOT RECORD PLANS AND ARE ONLY TO BE USED TO SHOW PROPOSED LOCATIONS OF CONDUIT, HANGERS AND EXPANSION COUPLINGS ON BRIDGE STRUCTURES AS NEEDED.

REFER TO SHEET 77 FOR PLAN SHEET

DESIGN AGENCY OHIO DEPARTMENT OF TRANSPORTATION	DATE	REVIEWED	DRAWN	DESIGNED
	STRUCTURE FILE NUMBER 7706189R	GM	GM	RAW
STA-SUM ITS PID No. 77482	CONDUIT ATTACHED TO STRUCTURE DETAIL BRIDGE NO. SUM-76-1179 INTERSTATE 76 OVER INMAN STREET	REVISION	CHECKED	CHECKED
		FILE NUMBER 7706189R	JDG	JDG
217		390		

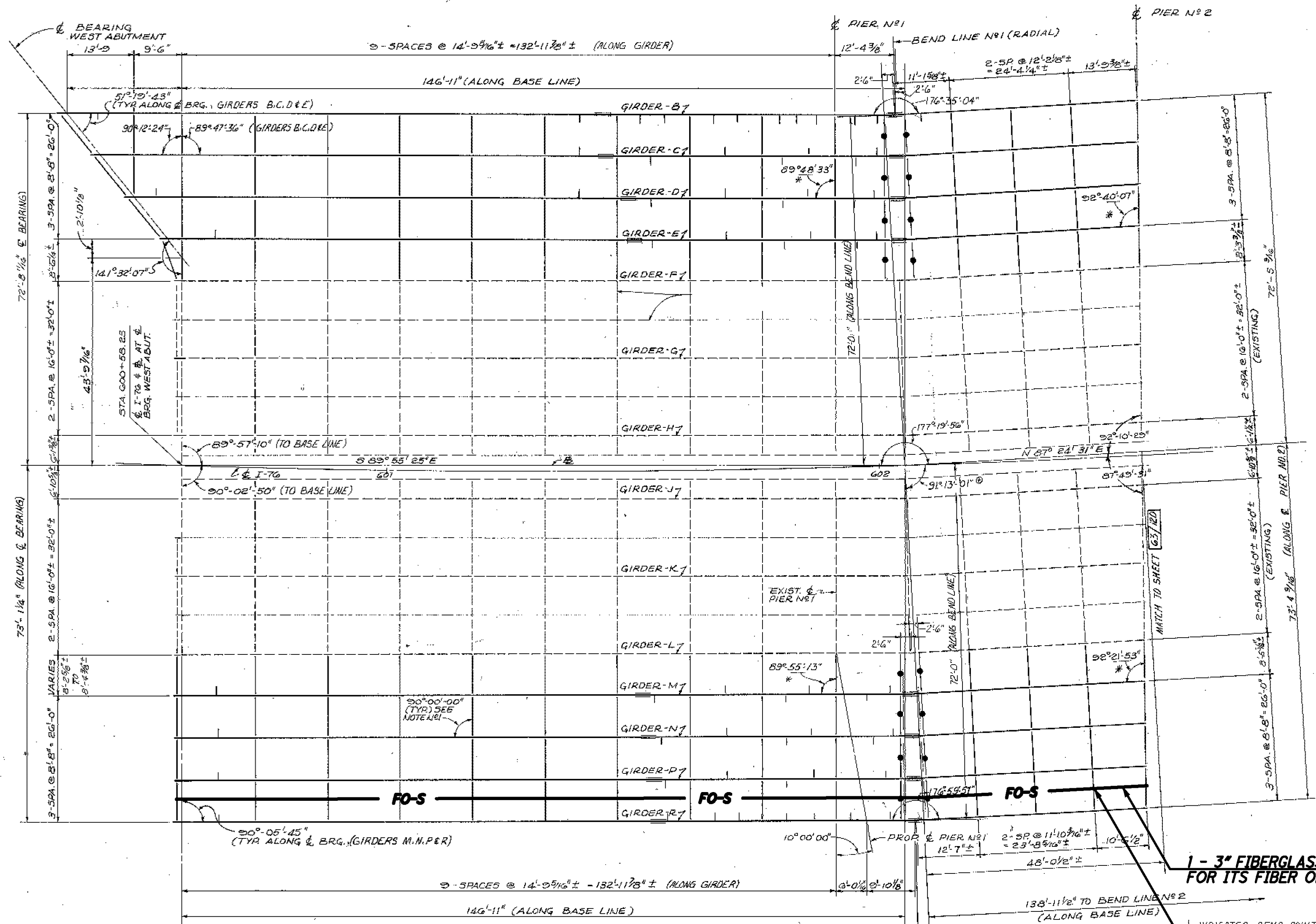


SEE DETAIL ON SHEET 13 FOR CROSS FRAME ATTACHMENT TYP.



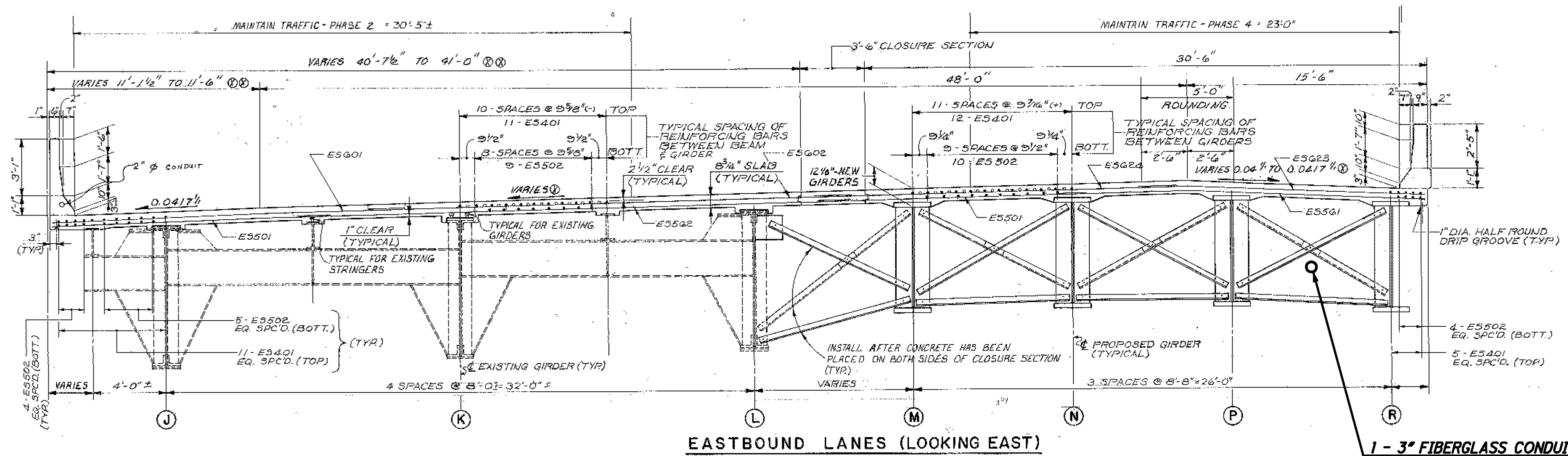
NOTE: INCLUDE EXPANSION COUPLING FOR FO-S AT ALL EXPANSION JOINTS INDICATED.  
 \* THESE SHEETS WERE TAKEN FROM ODOT RECORD PLANS AND ARE ONLY TO BE USED TO SHOW PROPOSED LOCATIONS OF CONDUIT, HANGERS AND EXPANSION COUPLINGS ON BRIDGE STRUCTURES AS NEEDED.  
 REFER TO SHEET 79 FOR PLAN SHEET





**1 - 3" FIBERGLASS CONDUIT FOR ITS FIBER OPTIC**

SEE DETAIL ON SHEET 13 FOR CROSS FRAME ATTACHMENT TYP.



**EASTBOUND LANES (LOOKING EAST)**

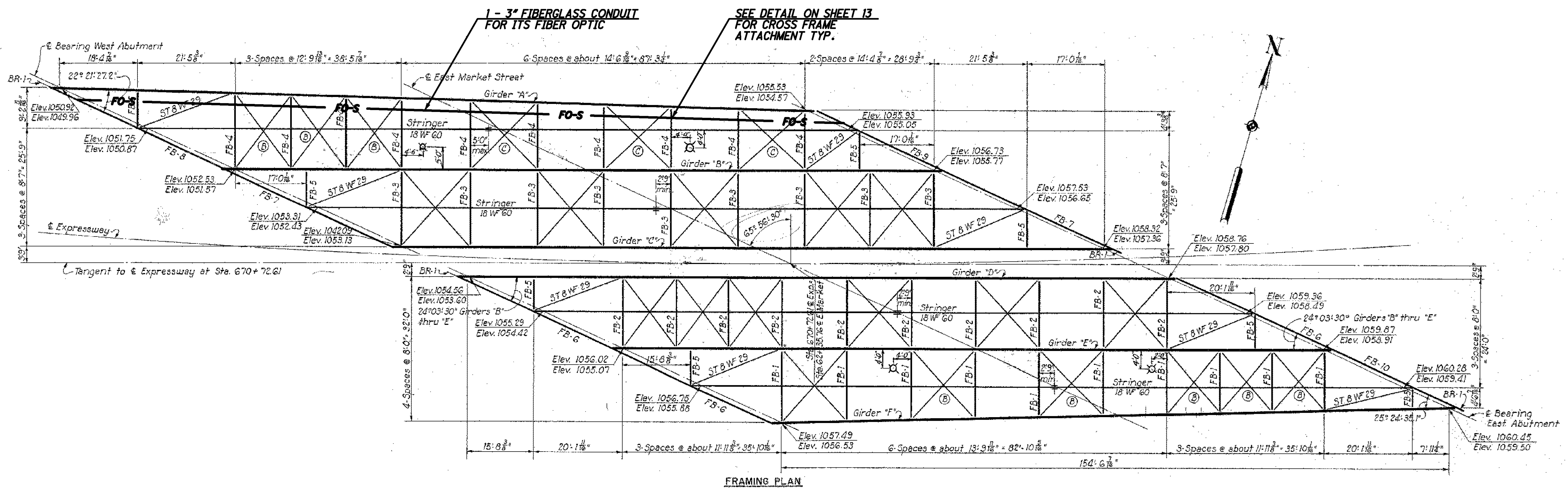
**1 - 3" FIBERGLASS CONDUIT FOR ITS FIBER OPTIC**

**NOTE: INCLUDE EXPANSION COUPLING FOR FO-S AT ALL EXPANSION JOINTS INDICATED.**

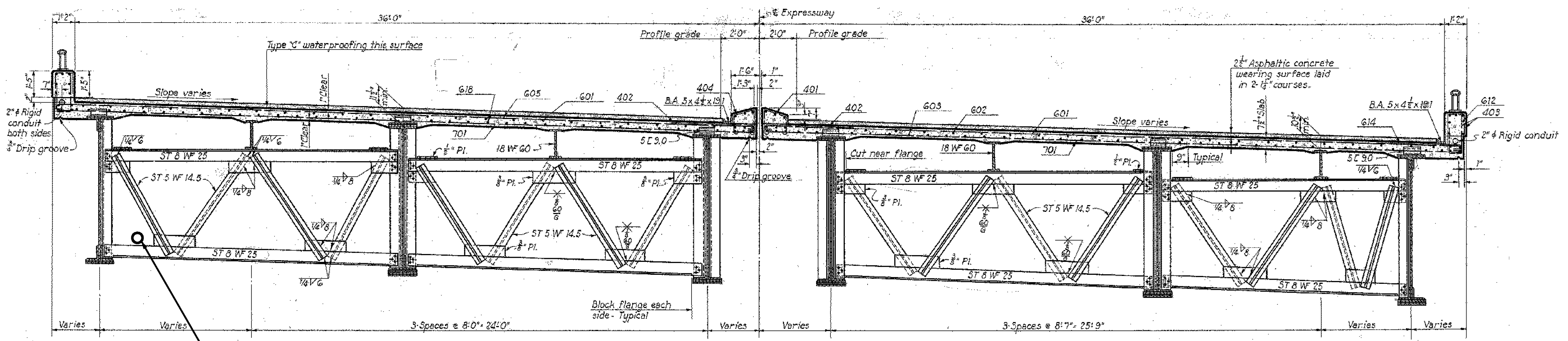
\* THESE SHEETS WERE TAKEN FROM ODOT RECORD PLANS AND ARE ONLY TO BE USED TO SHOW PROPOSED LOCATIONS OF CONDUIT, HANGERS AND EXPANSION COUPLINGS ON BRIDGE STRUCTURES AS NEEDED.

REFER TO SHEET 79 FOR PLAN SHEET

DESIGNED	RAW	DATE	REVIEWED	DRAWN	GM	STRUCTURE FILE NUMBER	DESIGN AGENCY		
	CHECKED							JDG	OHIO DEPARTMENT OF TRANSPORTATION
CONDUIT ATTACHED TO STRUCTURE DETAIL									
BRIDGE NO. SUM-76-1277									
INTERSTATE 76 OVER KELLY AVENUE									
STA-SUM ITS									
PID No. 77482									
<table border="1"> <tr> <td>219</td> </tr> <tr> <td>390</td> </tr> </table>								219	390
219									
390									



FRAMING PLAN



TYPICAL INTERMEDIATE SECTION

1 - 3" FIBERGLASS CONDUIT FOR ITS FIBER OPTIC

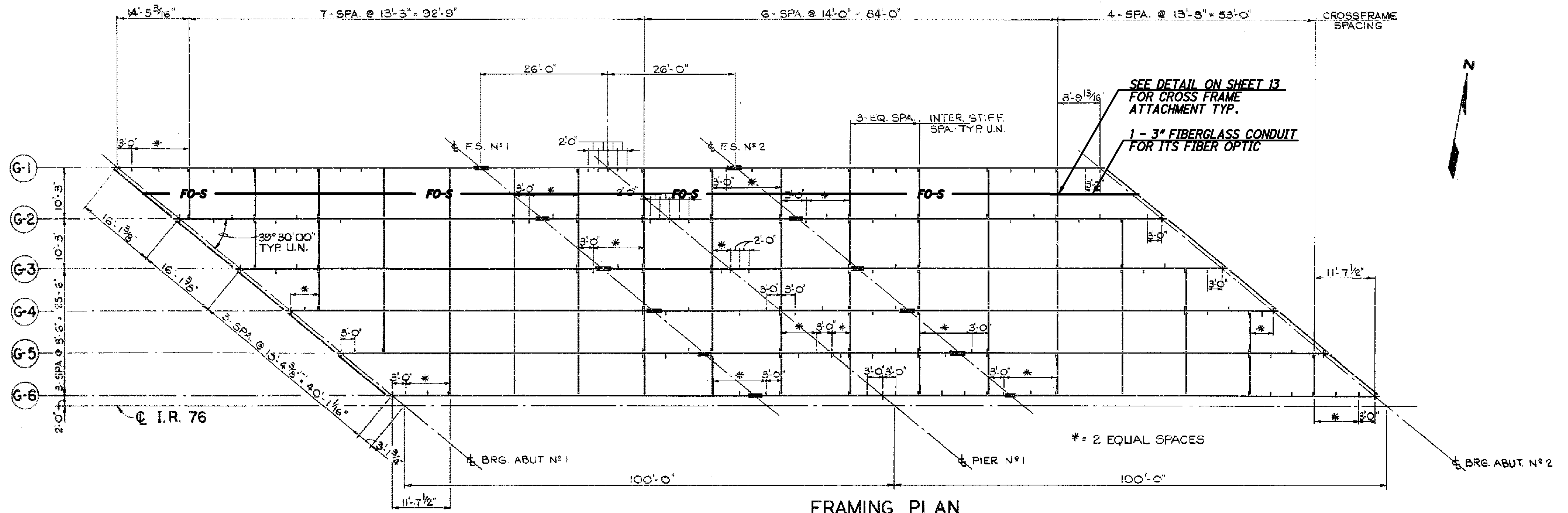
NOTE: INCLUDE EXPANSION COUPLING FOR FO-S AT ALL EXPANSION JOINTS INDICATED.

\* THESE SHEETS WERE TAKEN FROM ODOT RECORD PLANS AND ARE ONLY TO BE USED TO SHOW PROPOSED LOCATIONS OF CONDUIT, HANGERS AND EXPANSION COUPLINGS ON BRIDGE STRUCTURES AS NEEDED.

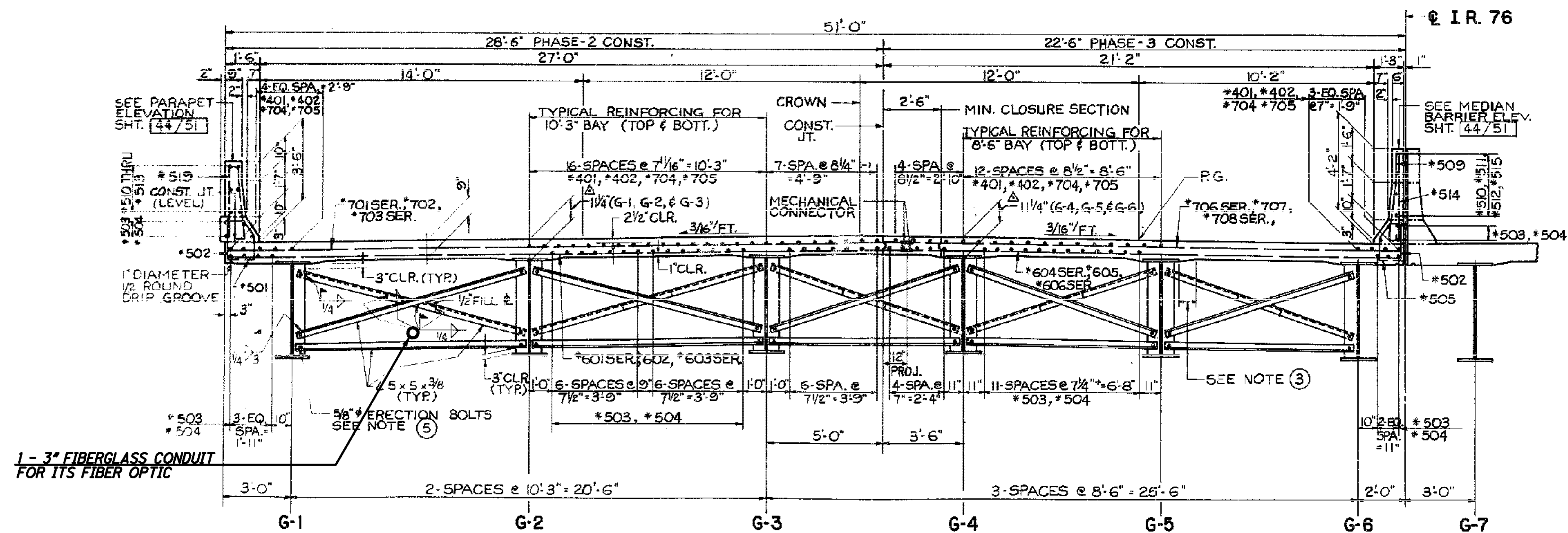
REFER TO SHEET 82 FOR PLAN SHEET

DESIGN AGENCY	OHIO DEPARTMENT OF TRANSPORTATION	
	DATE	STRUCTURE FILE NUMBER
DESIGNED	RAW	CHECKED
DRAWN	GM	REVIEWED
DESIGNED	RAW	CHECKED
DRAWN	GM	REVIEWED
DATE	7706480	
CONDUIT ATTACHED TO STRUCTURE DETAIL		
BRIDGE NO. SUM-76-1408		
INTERSTATE 76 OVER EAST MARKET STREET		
STA-SUM ITS	PID No. 77482	
220 390		





**FRAMING PLAN**  
WESTBOUND



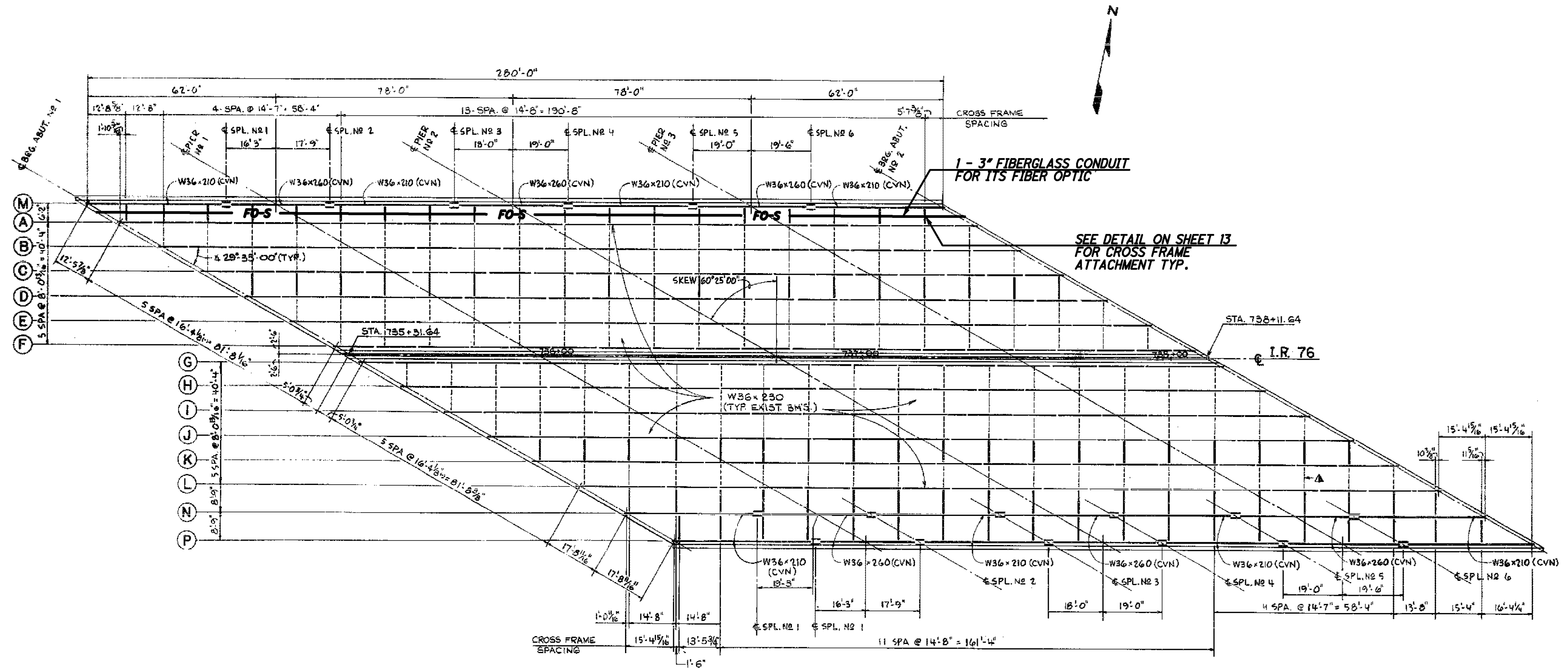
**TRANSVERSE SECTION - WEST BOUND LANES**

**NOTE:** INCLUDE EXPANSION COUPLING FOR FO-S AT ALL EXPANSION JOINTS INDICATED.

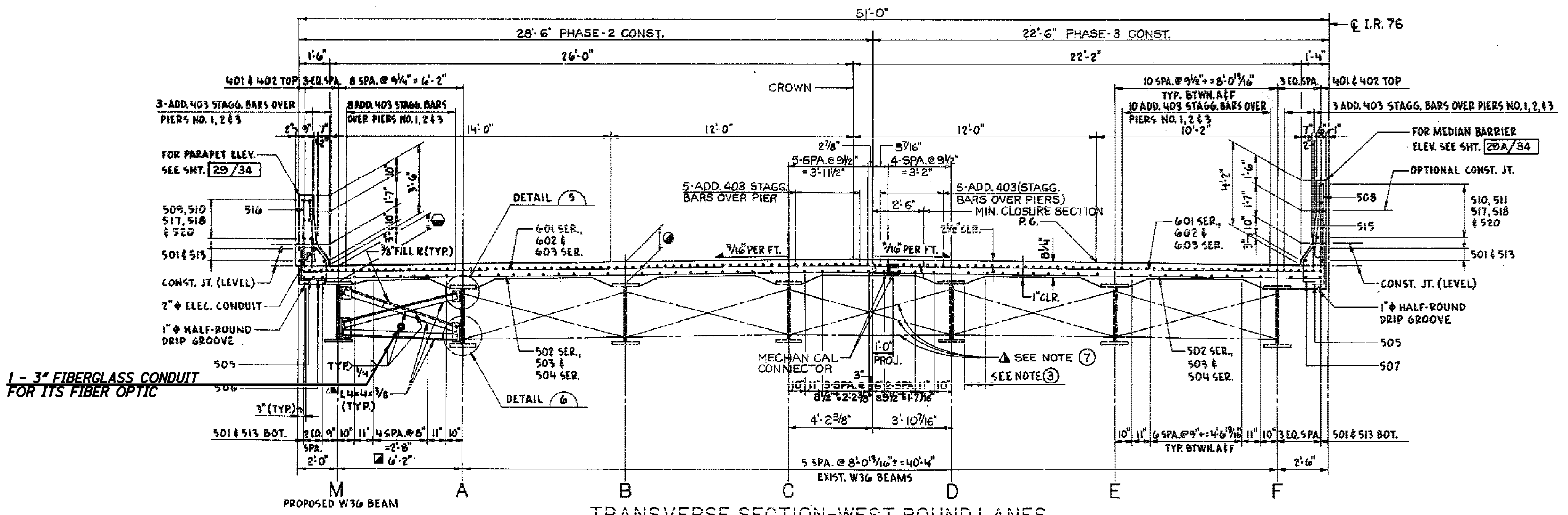
\* THESE SHEETS WERE TAKEN FROM ODOT RECORD PLANS AND ARE ONLY TO BE USED TO SHOW PROPOSED LOCATIONS OF CONDUIT, HANGERS AND EXPANSION COUPLINGS ON BRIDGE STRUCTURES AS NEEDED.

REFER TO SHEET 84 FOR PLAN SHEET

DESIGN AGENCY OHIO DEPARTMENT OF TRANSPORTATION	
DATE	STRUCTURE FILE NUMBER 7706634
REVIEWED	DRAWN GM
DESIGNED RAW	CHECKED JDG
CONDUIT ATTACHED TO STRUCTURE DETAIL	
BRIDGE NO. SUM-76-1521	
INTERSTATE 76 OVER AKRON CANTON AND YOUNGSTOWN RAILROAD	
STA-SUM ITS	PID No. 77482
221 390	



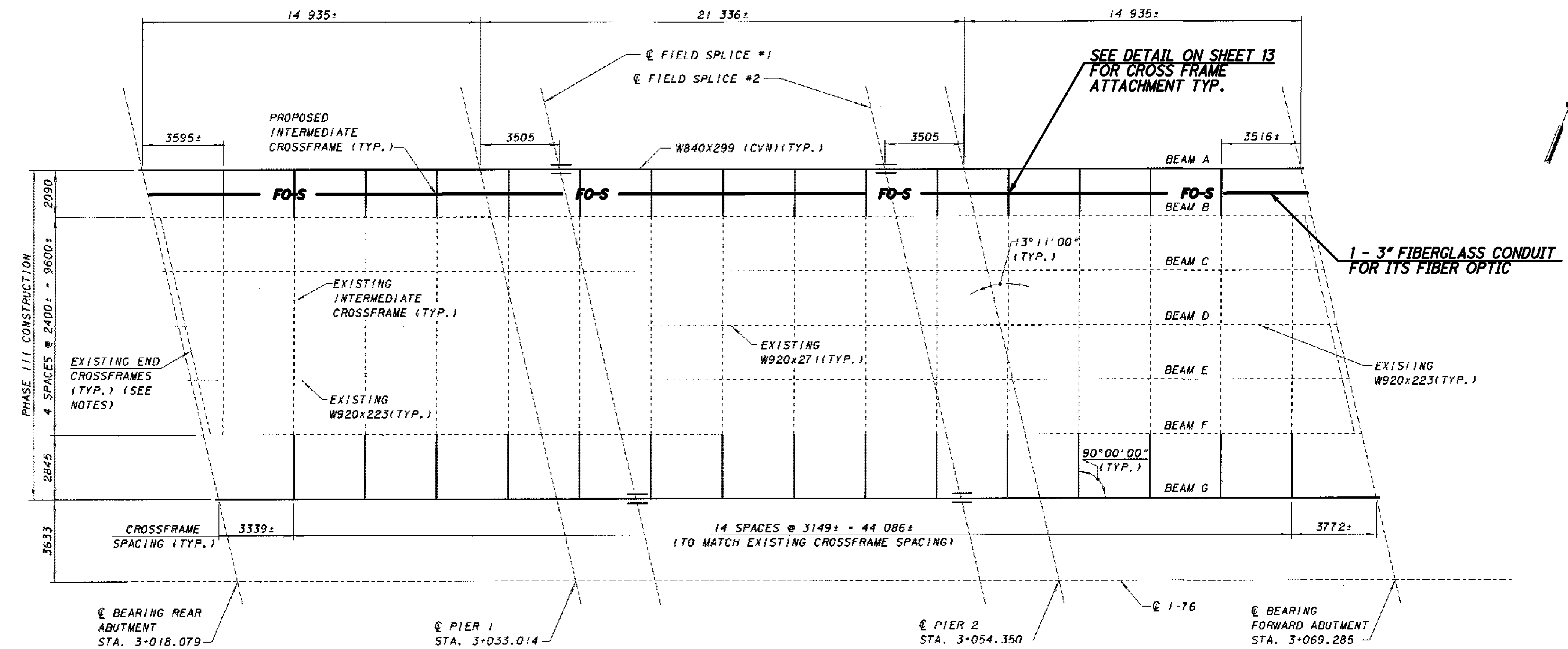
**FRAMING PLAN**



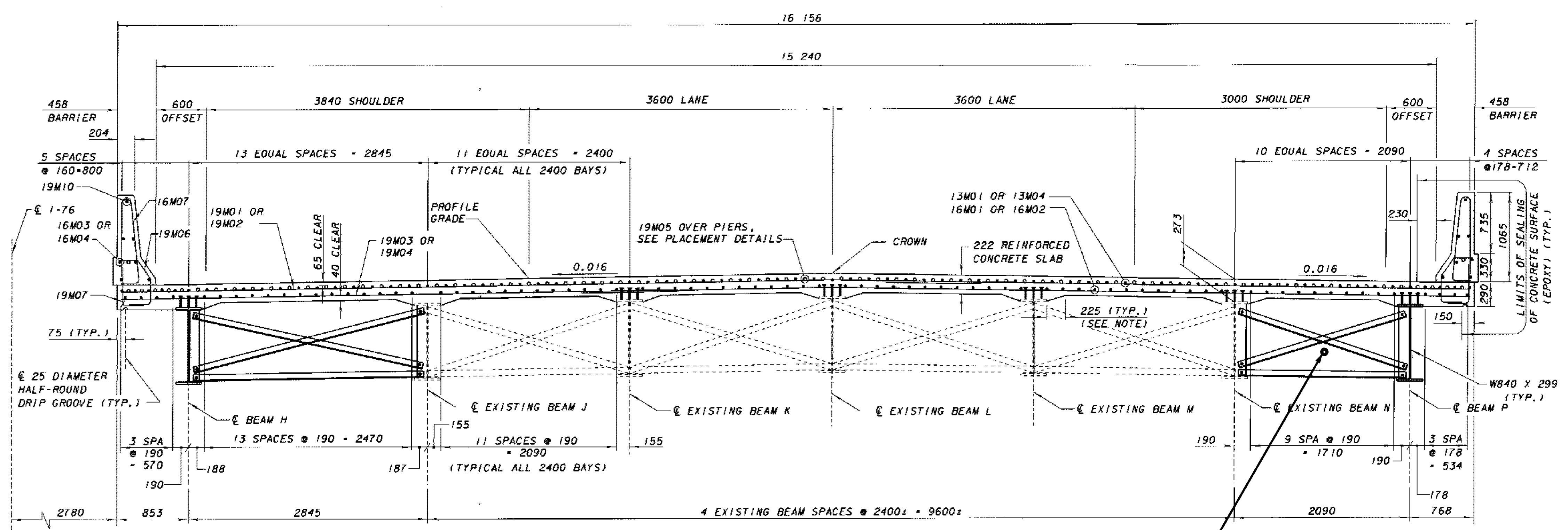
**TRANSVERSE SECTION-WEST BOUND LANES**

NOTE: INCLUDE EXPANSION COUPLING FOR FO-S AT ALL EXPANSION JOINTS INDICATED.  
 \* THESE SHEETS WERE TAKEN FROM ODOT RECORD PLANS AND ARE ONLY TO BE USED TO SHOW PROPOSED LOCATIONS OF CONDUIT, HANGERS AND EXPANSION COUPLINGS ON BRIDGE STRUCTURES AS NEEDED.  
 REFER TO SHEET 84 FOR PLAN SHEET

DESIGN AGENCY		OHIO DEPARTMENT OF TRANSPORTATION	
DATE	REVIEWED	STRUCTURE FILE NUMBER	7706689
DRAWN	GM	CHECKED	JDG
DESIGNED	RAW	REVISIONS	
CONDUIT ATTACHED TO STRUCTURE DETAIL			
BRIDGE NO. SUM-76-1532			
INTERSTATE 76 OVER GILCHRIST ROAD			
STA-SUM ITS	PID No. 77482		
222		390	



LEFT FRAMING PLAN



TRANSVERSE SECTION OF RIGHT BRIDGE  
(LEFT BRIDGE SYMMETRICAL ABOUT ± I-76)  
MIRROR FOR WESTBOUND LANES

1 - 3" FIBERGLASS CONDUIT FOR ITS FIBER OPTIC

NOTE: INCLUDE EXPANSION COUPLING FOR FO-S AT ALL EXPANSION JOINTS INDICATED.

\* THESE SHEETS WERE TAKEN FROM ODOT RECORD PLANS AND ARE ONLY TO BE USED TO SHOW PROPOSED LOCATIONS OF CONDUIT, HANGERS AND EXPANSION COUPLINGS ON BRIDGE STRUCTURES AS NEEDED.

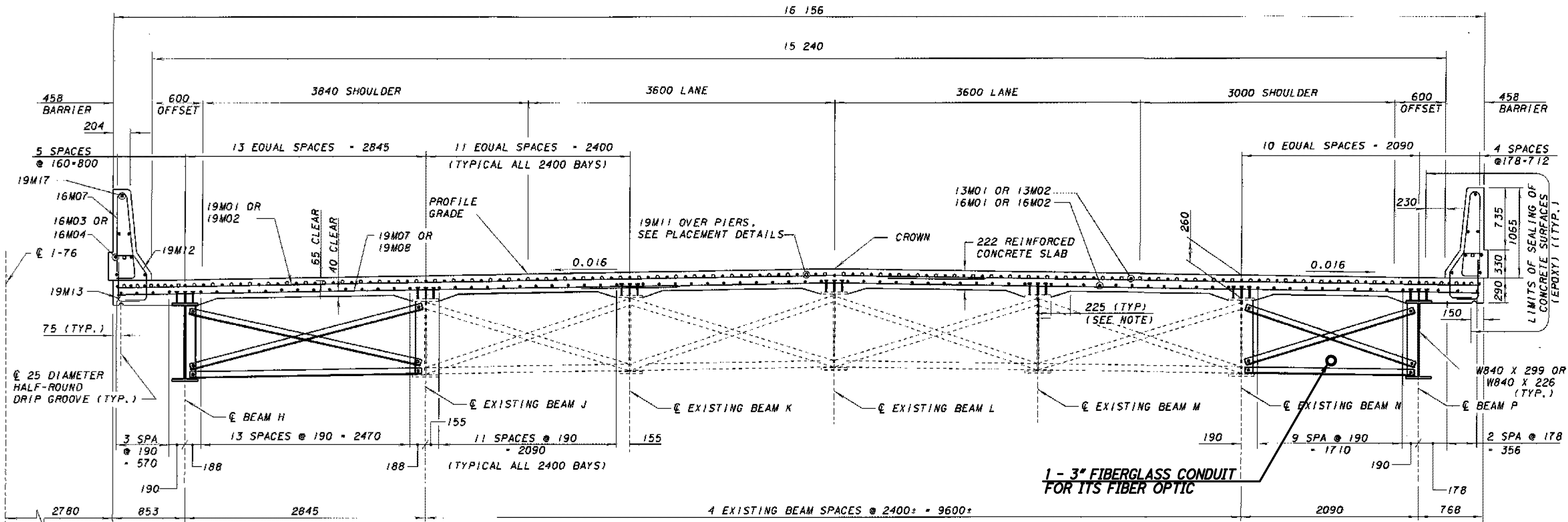
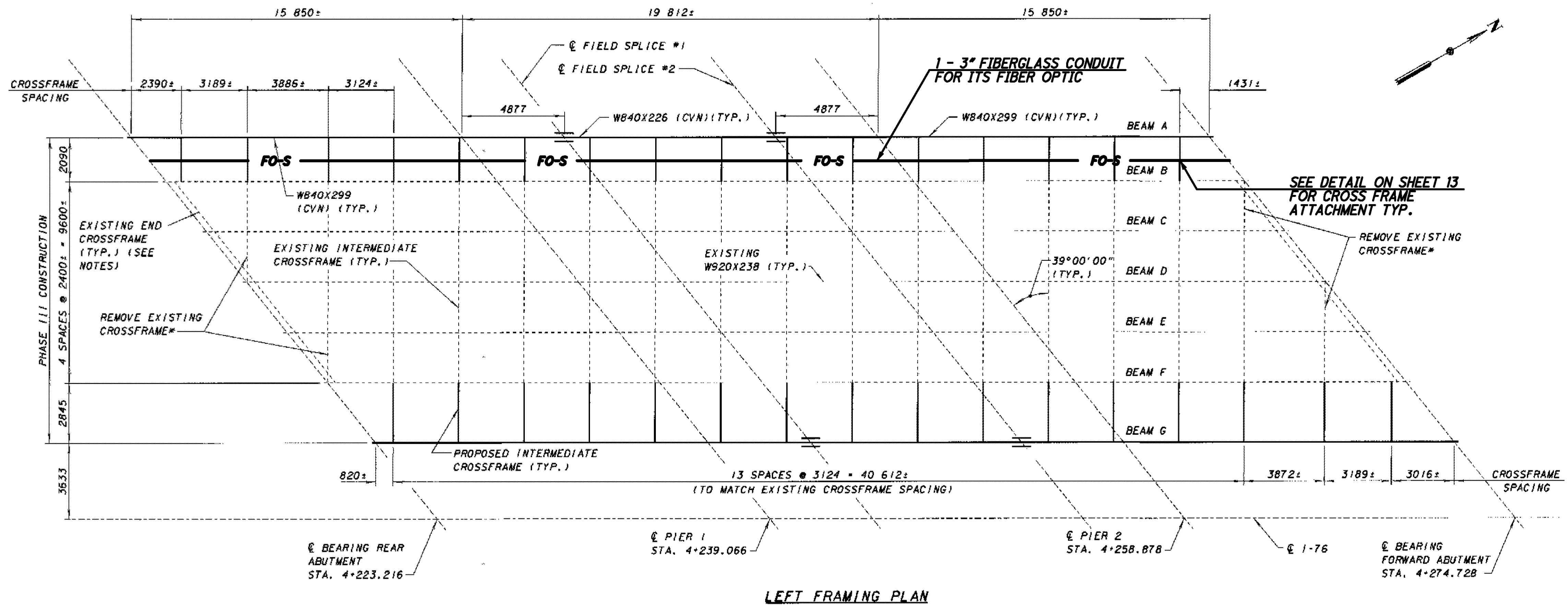
REFER TO SHEET 87 FOR PLAN SHEET

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DESIGN AGENCY OHIO DEPARTMENT OF TRANSPORTATION	
DATE	STRUCTURE FILE NUMBER 7706758
REVIEWED	DESIGNED
DRAWN	CHECKED
GM	JDG
CONDUIT ATTACHED TO STRUCTURE DETAIL	
BRIDGE NO. SUM-76-1698	
INTERSTATE 76 OVER SR-532	
STA-SUM ITS	PID No. 77482
223 390	



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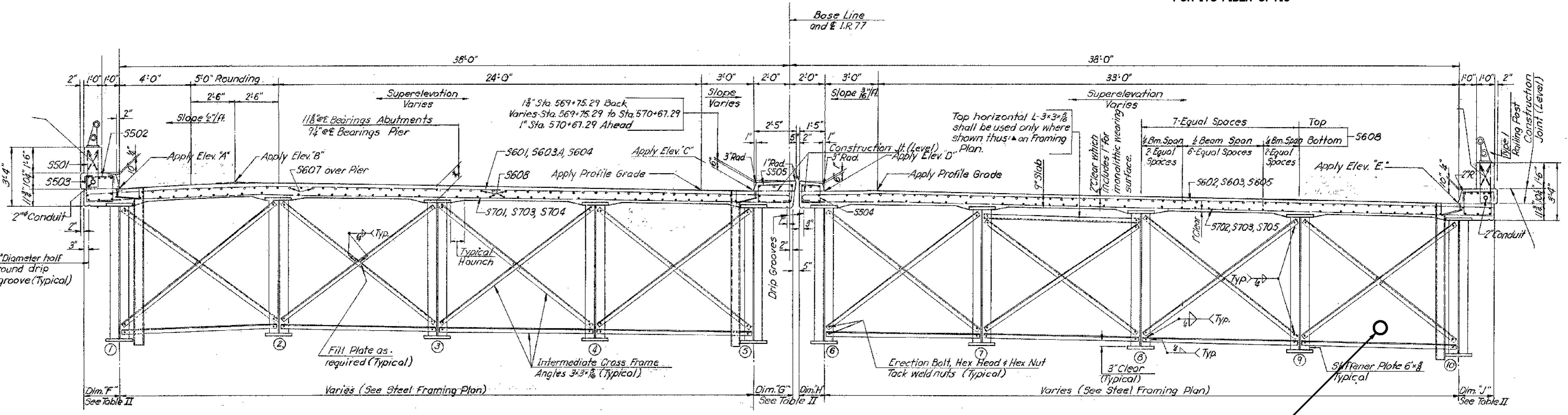
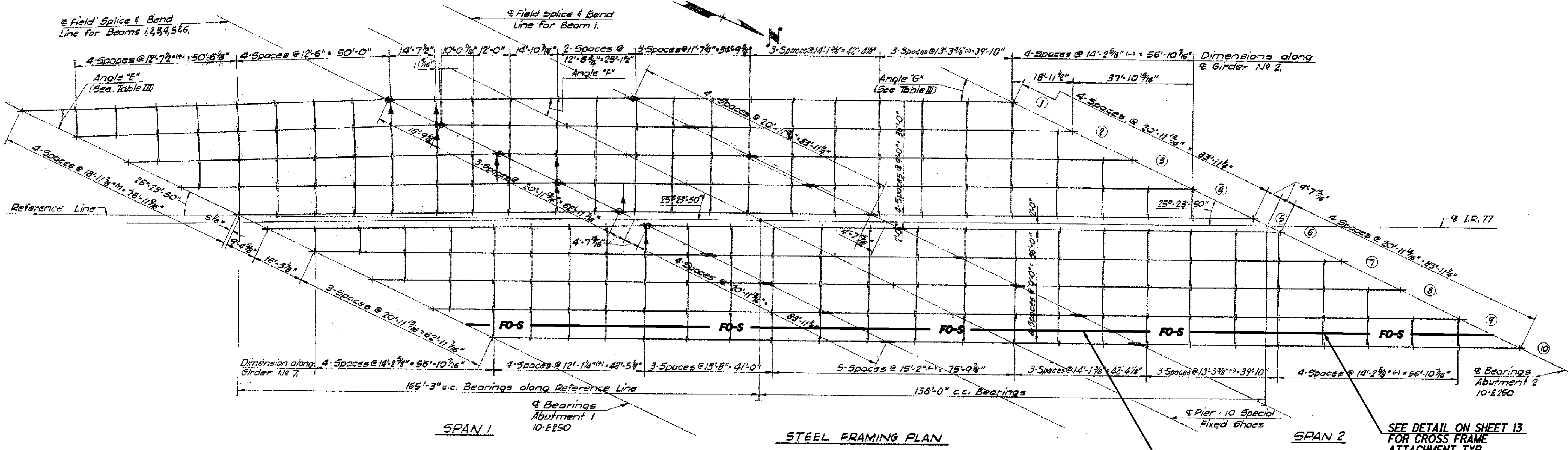
NOTE: INCLUDE EXPANSION COUPLING FOR FO-S AT ALL EXPANSION JOINTS INDICATED.

\* THESE SHEETS WERE TAKEN FROM ODOT RECORD PLANS AND ARE ONLY TO BE USED TO SHOW PROPOSED LOCATIONS OF CONDUIT, HANGERS AND EXPANSION COUPLINGS ON BRIDGE STRUCTURES AS NEEDED.

REFER TO SHEET 89 FOR PLAN SHEET

DESIGN AGENCY		OHIO DEPARTMENT OF TRANSPORTATION	
DATE	REVIEWED	STRUCTURE FILE NUMBER	7706812
DRAWN	GM	REVISION	GM
DESIGNED	RAW	CHECKED	JDG
CONDUIT ATTACHED TO STRUCTURE DETAIL			
BRIDGE NO. SUM-76-1773			
INTERSTATE 76 OVER EASTWOOD AVENUE			
STA-SUM ITS	PID No. 77482		
224		390	

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TYPICAL CROSS SECTION

NOTE: INCLUDE EXPANSION COUPLING FOR FO-S AT ALL EXPANSION JOINTS INDICATED.

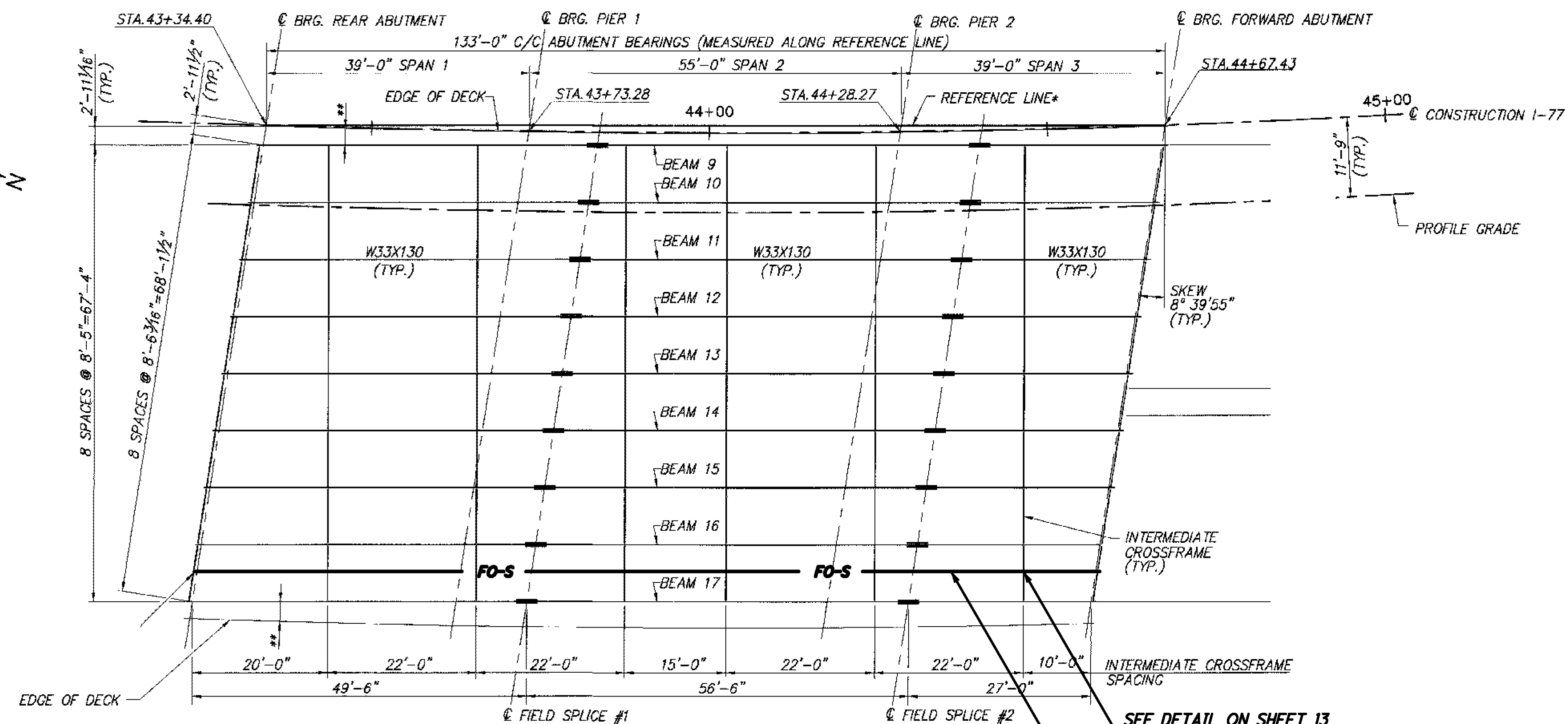
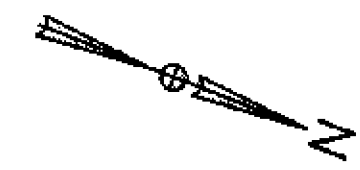
\* THESE SHEETS WERE TAKEN FROM ODOT RECORD PLANS AND ARE ONLY TO BE USED TO SHOW PROPOSED LOCATIONS OF CONDUIT, HANGERS AND EXPANSION COUPLINGS ON BRIDGE STRUCTURES AS NEEDED.

REFER TO SHEET 95 FOR PLAN SHEET

DESIGNED	RAW	CHECKED	JDG
	GM	REVISION	GM
DRAWN	GM	REVIEWED	DATE
STRUCTURE FILE NUMBER	7600887	DESIGN AGENCY	OHIO DEPARTMENT OF TRANSPORTATION
CONDUIT ATTACHED TO STRUCTURE DETAIL			
BRIDGE NO. STA-77-0937			
INTERSTATE 77 OVER NIMSHILLEN CREEK			
STA-SUM ITS	PID No. 77482		
		225 390	

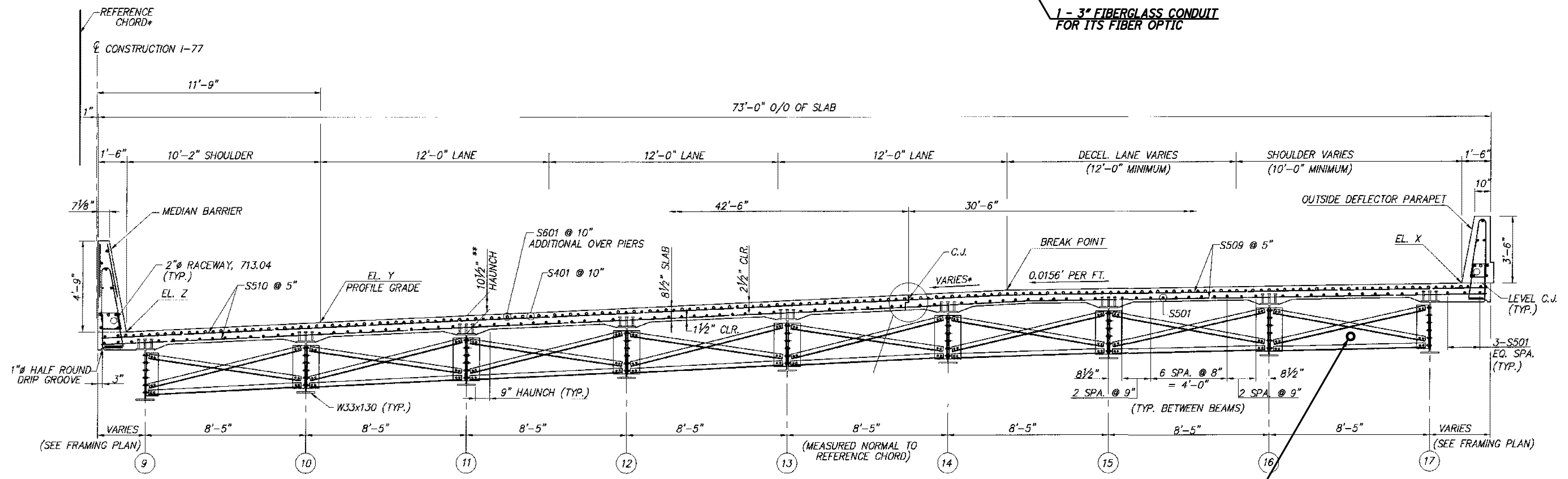


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STEEL FRAMING PLAN (NORTHBOUND BRIDGE)

SEE DETAIL ON SHEET 13 FOR CROSS FRAME ATTACHMENT TYP.  
1 - 3" FIBERGLASS CONDUIT FOR ITS FIBER OPTIC



TRANSVERSE SECTION

(NOTE: ALL SLAB AND LANE DIMENSIONS ARE MEASURED RADially.)

1 - 3" FIBERGLASS CONDUIT FOR ITS FIBER OPTIC

NOTE: INCLUDE EXPANSION COUPLING FOR FO-S AT ALL EXPANSION JOINTS INDICATED.

\* THESE SHEETS WERE TAKEN FROM ODOT RECORD PLANS AND ARE ONLY TO BE USED TO SHOW PROPOSED LOCATIONS OF CONDUIT, HANGERS AND EXPANSION COUPLINGS ON BRIDGE STRUCTURES AS NEEDED.

REFER TO SHEET 97 FOR PLAN SHEET

DESIGN AGENCY  
OHIO DEPARTMENT  
OF TRANSPORTATION

DATE	STRUCTURE FILE NUMBER
REVIEWED	7603827
DRAWN	GM
DESIGNED	JDG
RAW	CHECKED
GM	GM

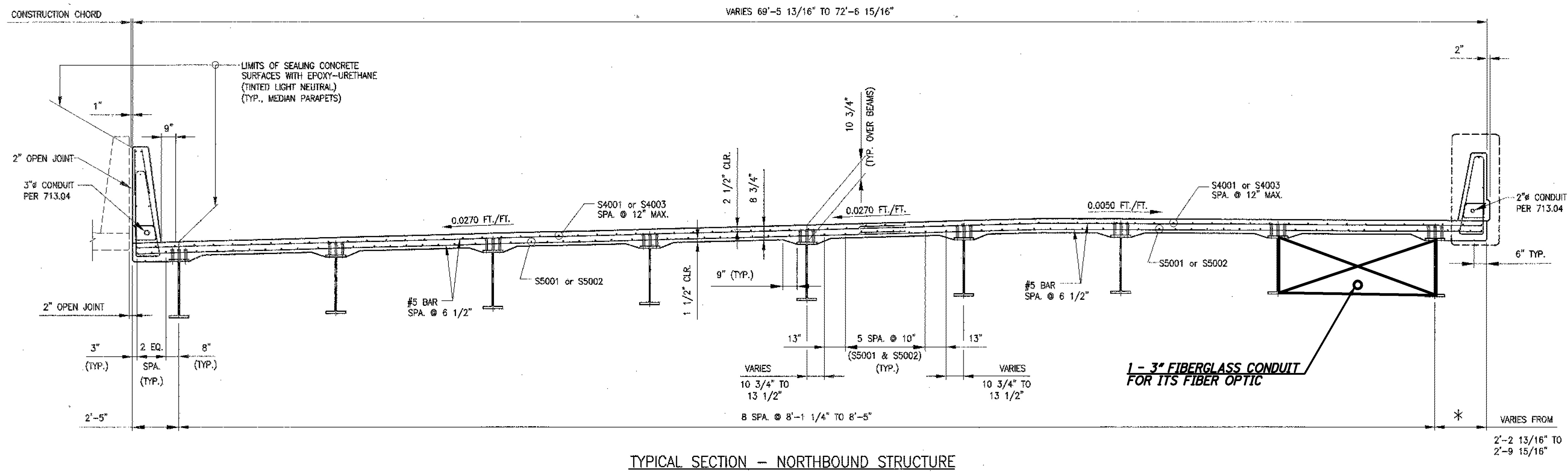
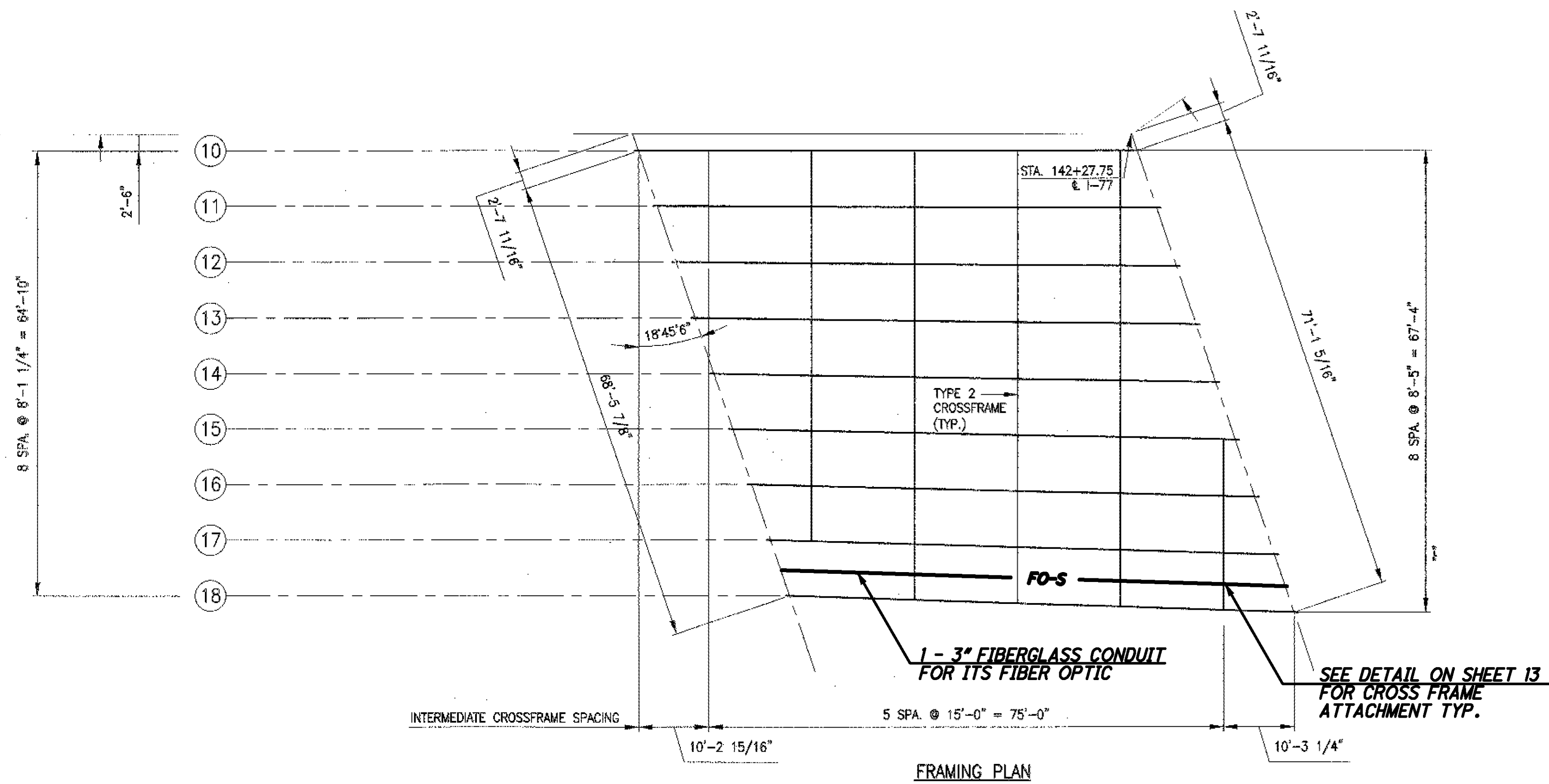
CONDUIT ATTACHED TO STRUCTURE DETAIL  
BRIDGE NO. STA-77-1013  
INTERSTATE 77 OVER 6TH STREET SW

STA-SUM ITS  
PID No. 77482

226  
390



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NOTE: INCLUDE EXPANSION COUPLING FOR FO-S AT ALL EXPANSION JOINTS INDICATED.

\* THESE SHEETS WERE TAKEN FROM ODOT RECORD PLANS AND ARE ONLY TO BE USED TO SHOW PROPOSED LOCATIONS OF CONDUIT, HANGERS AND EXPANSION COUPLINGS ON BRIDGE STRUCTURES AS NEEDED.

REFER TO SHEET 101 FOR PLAN SHEET

CONDUIT ATTACHED TO STRUCTURE DETAIL

BRIDGE NO. STA-77-1198  
INTERSTATE 77 OVER PARK ROAD

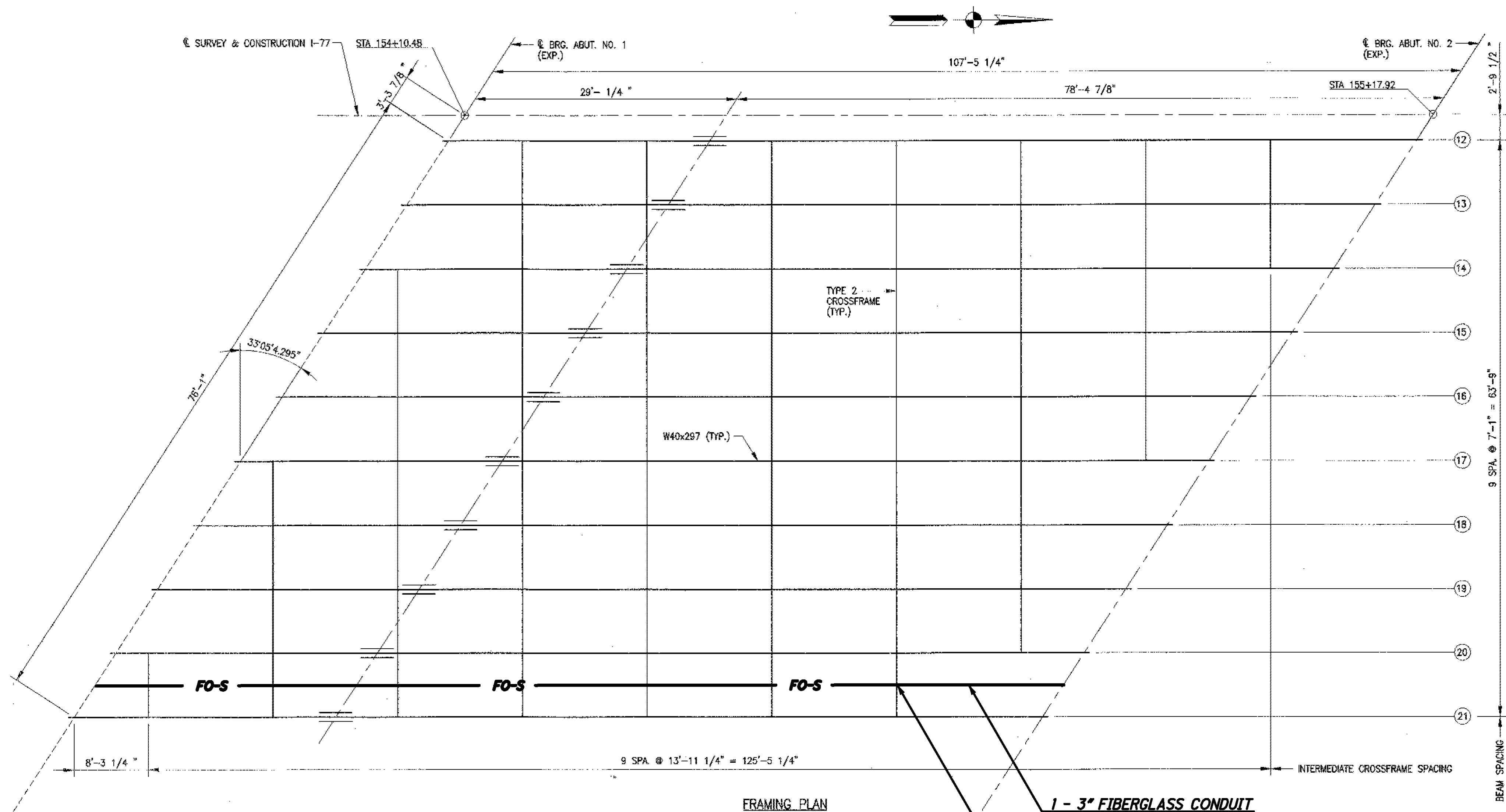
STA-SUM ITS  
PID No. 77482

DESIGN AGENCY  
OHIO DEPARTMENT  
OF TRANSPORTATION

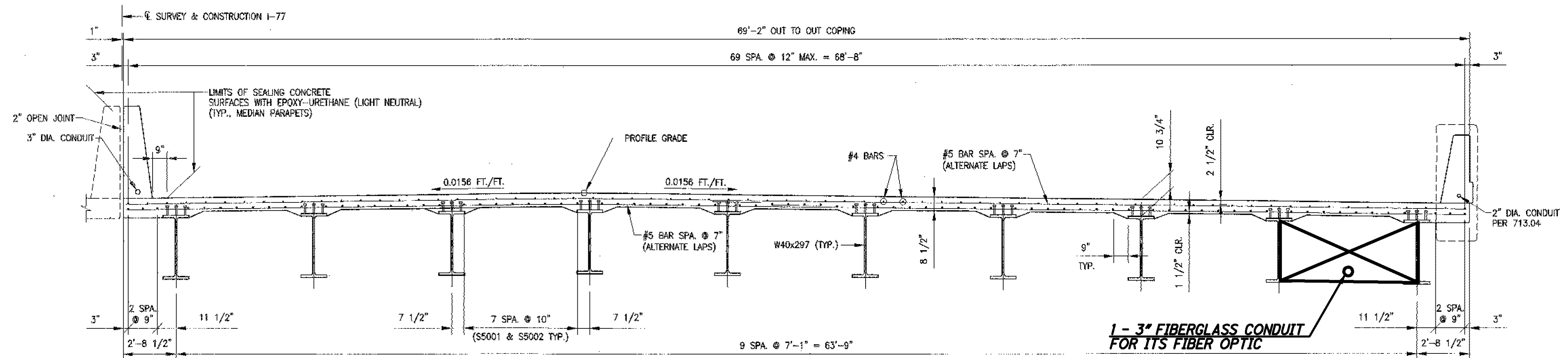
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CHECKED	JDG	REVISION	GM	STRUCTURE FILE NUMBER	7604033

228  
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FRAMING PLAN



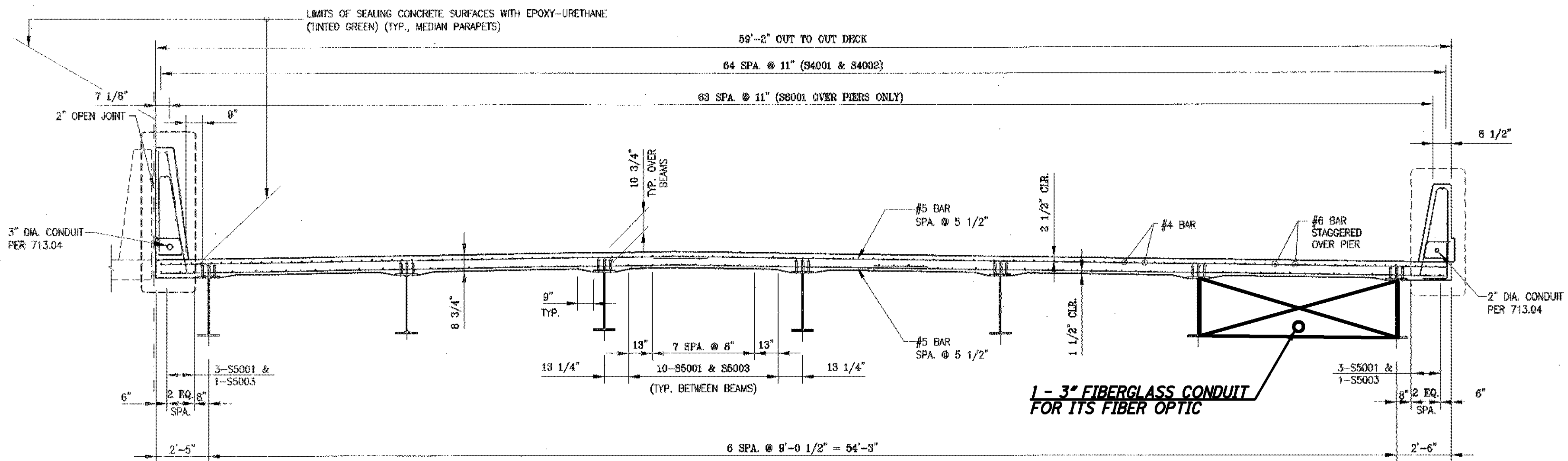
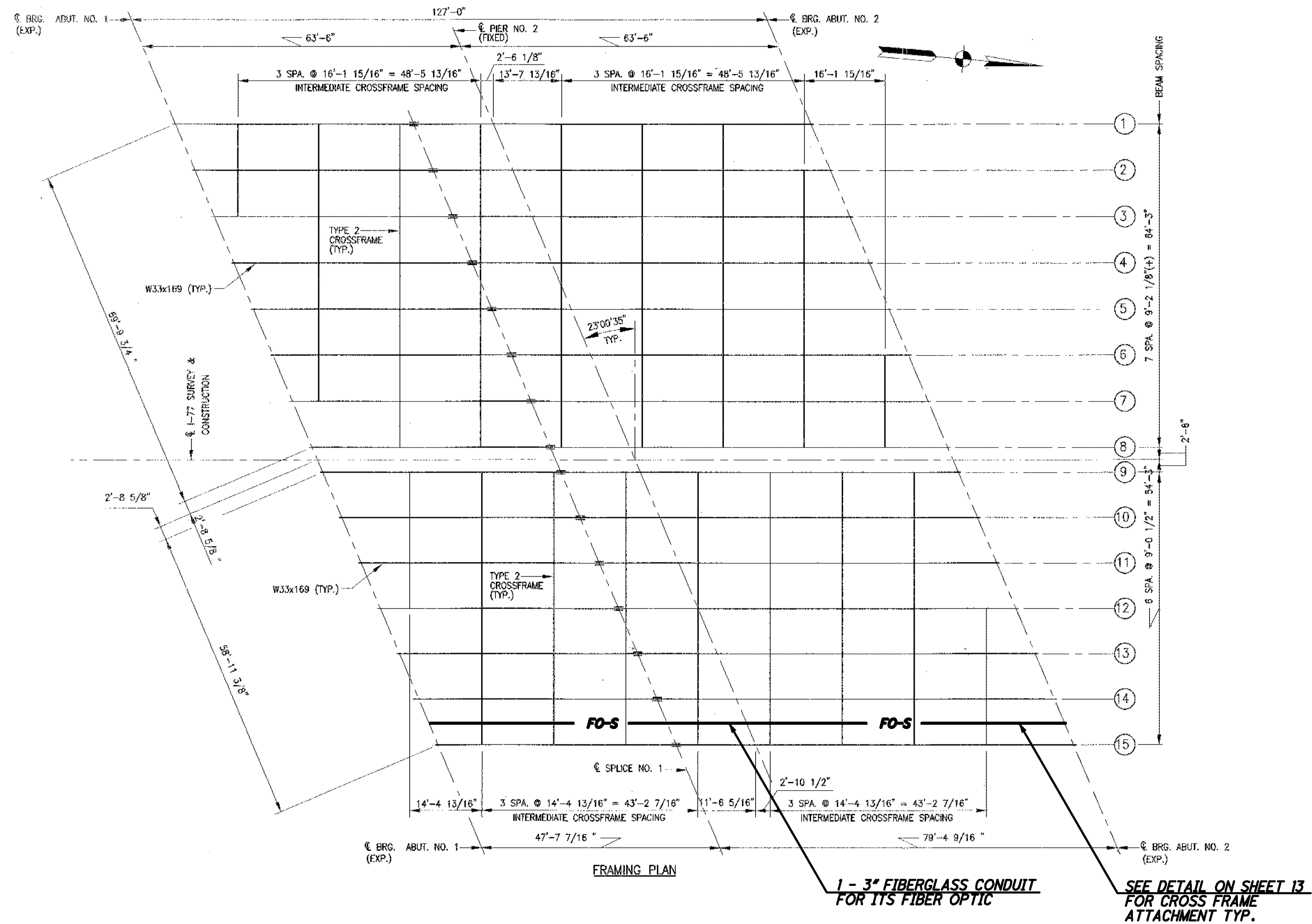
TYPICAL SECTION - NORTHBOUND

NOTE: INCLUDE EXPANSION COUPLING FOR FO-S AT ALL EXPANSION JOINTS INDICATED.

\* THESE SHEETS WERE TAKEN FROM ODOT RECORD PLANS AND ARE ONLY TO BE USED TO SHOW PROPOSED LOCATIONS OF CONDUIT, HANGERS AND EXPANSION COUPLINGS ON BRIDGE STRUCTURES AS NEEDED.

REFER TO SHEET 101 FOR PLAN SHEET

DESIGN AGENCY		OHIO DEPARTMENT OF TRANSPORTATION	
DATE	REVIEWED	STRUCTURE FILE NUMBER	7604092
DRAWN	GM	REVISION	GM
DESIGNED	RAW	CHECKED	JDG
CONDUIT ATTACHED TO STRUCTURE DETAIL			
BRIDGE NO. STA-77-1221			
INTERSTATE 77 OVER FULTON ROAD			
STA-SUM ITS		PID No. 77482	
229		390	



NOTE: INCLUDE EXPANSION COUPLING FOR FO-S AT ALL EXPANSION JOINTS INDICATED.

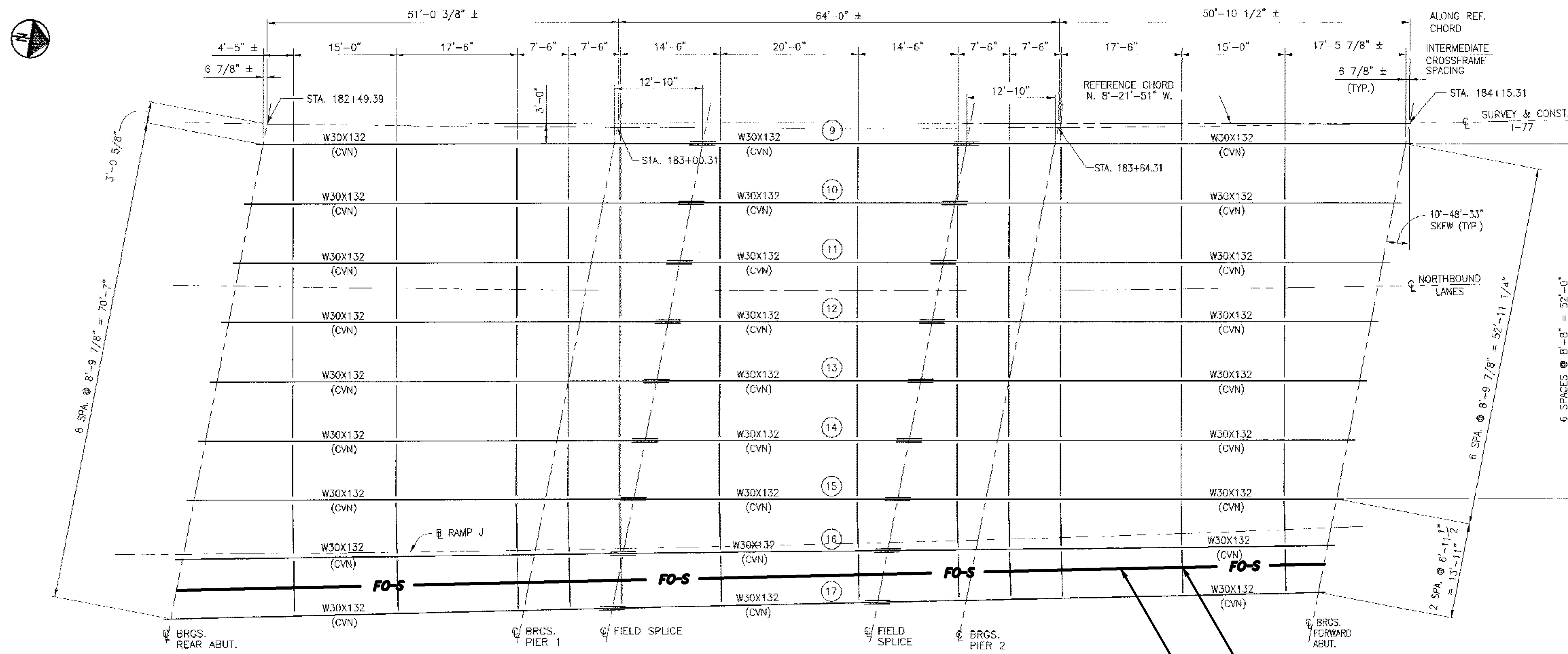
\* THESE SHEETS WERE TAKEN FROM ODOT RECORD PLANS AND ARE ONLY TO BE USED TO SHOW PROPOSED LOCATIONS OF CONDUIT, HANGERS AND EXPANSION COUPLINGS ON BRIDGE STRUCTURES AS NEEDED.

REFER TO SHEET 102 FOR PLAN SHEET

DESIGN AGENCY		OHIO DEPARTMENT OF TRANSPORTATION	
DATE	REVIEWED	STRUCTURE FILE NUMBER	7604181
DRAWN	GM	CHECKED	JDG
DESIGNED	RAW	CHECKED	JDG
CONDUIT ATTACHED TO STRUCTURE DETAIL			
BRIDGE NO. STA-77-1250			
INTERSTATE 77 OVER U.S. 62			
STA-SUM ITS		PID No. 77482	
230		390	



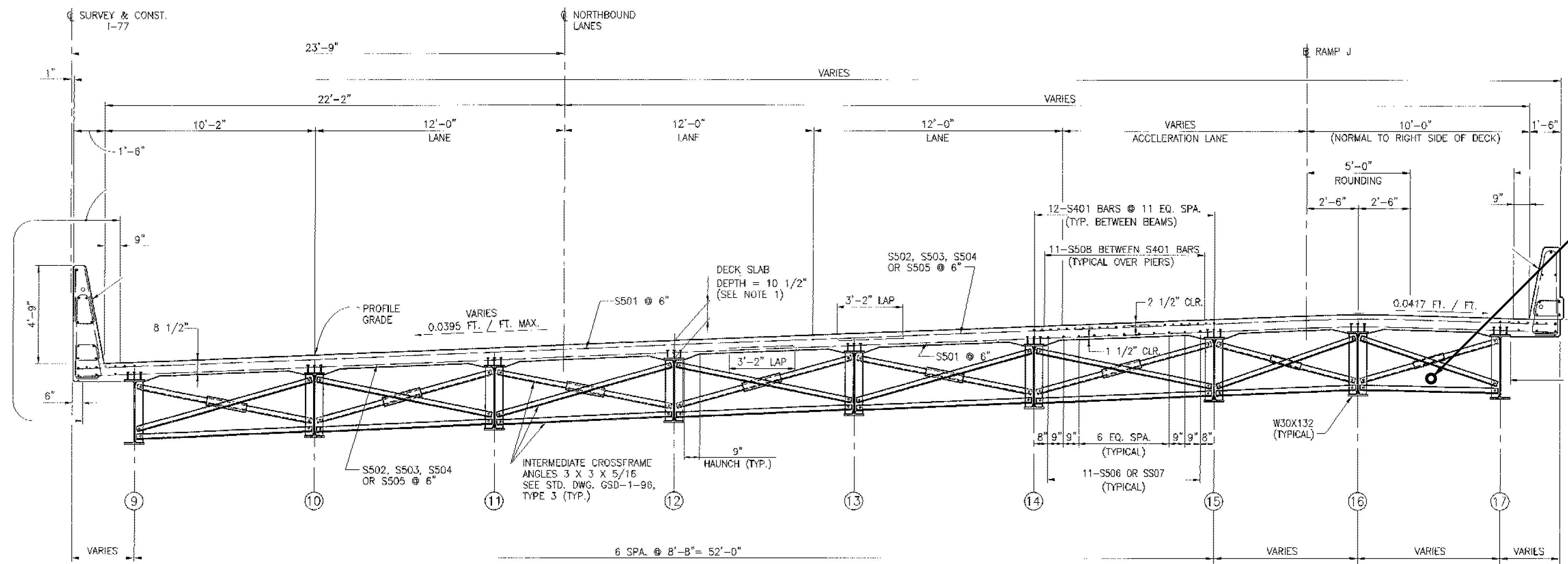
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**FRAMING PLAN (NORTHBOUND)**  
(ALL BEAMS ARE PARALLEL TO REFERENCE CHORD, EXCEPT BEAMS 16 & 17)

SEE DETAIL ON SHEET 13  
FOR CROSS FRAME  
ATTACHMENT TYP.

1 - 3" FIBERGLASS CONDUIT  
FOR ITS FIBER OPTIC



**TRANSVERSE SECTION**  
(NORTHBOUND BRIDGE)

1 - 3" FIBERGLASS CONDUIT  
FOR ITS FIBER OPTIC

NOTE: INCLUDE EXPANSION COUPLING FOR  
FO-S AT ALL EXPANSION JOINTS INDICATED.

\* THESE SHEETS WERE TAKEN FROM ODOT  
RECORD PLANS AND ARE ONLY TO BE USED  
TO SHOW PROPOSED LOCATIONS OF CONDUIT,  
HANGERS AND EXPANSION COUPLINGS ON  
BRIDGE STRUCTURES AS NEEDED.

REFER TO SHEET 102 FOR PLAN SHEET

CONDUIT ATTACHED TO STRUCTURE DETAIL

BRIDGE NO. STA-77-1276  
INTERSTATE 77 OVER ORCHARD PARK

STA-SUM ITS  
PID No. 77482

DESIGN AGENCY  
OHIO DEPARTMENT  
OF TRANSPORTATION

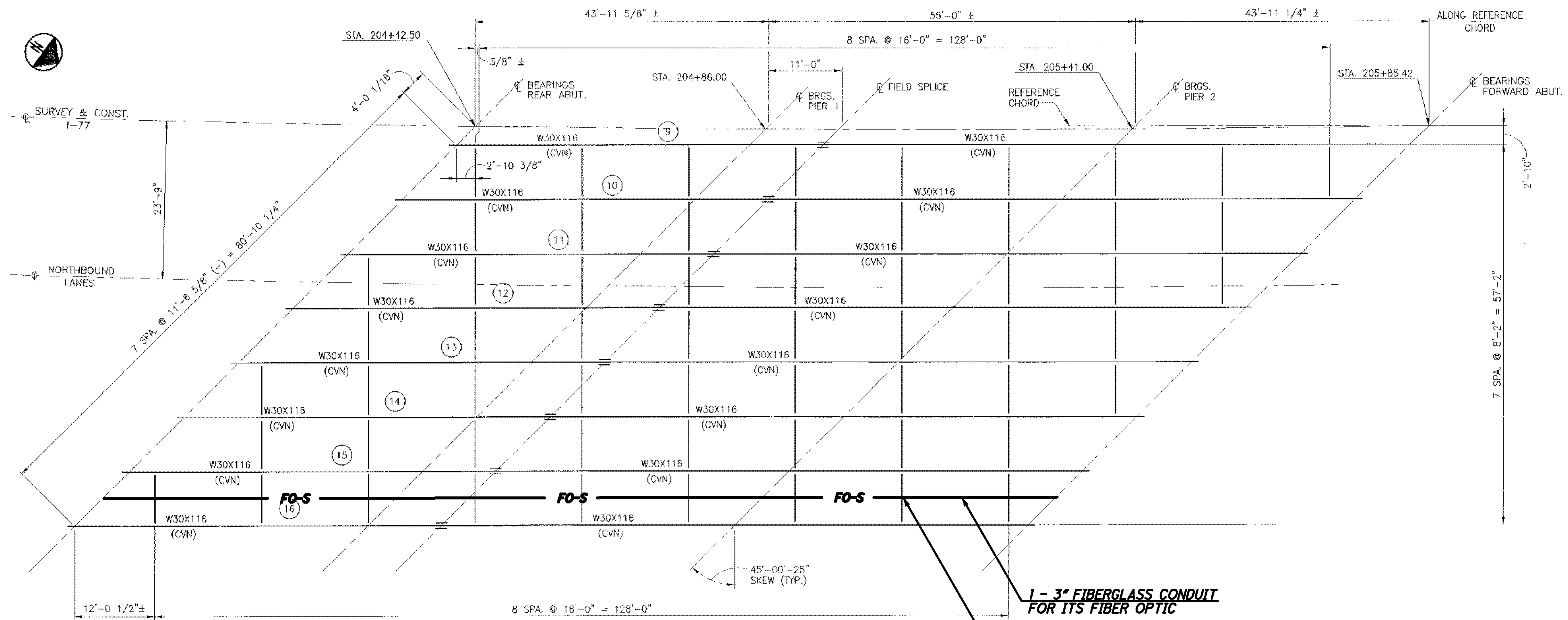
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STRUCTURE FILE NUMBER  
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DRAWN  
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REVISION  
GM

DESIGNED  
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CHECKED  
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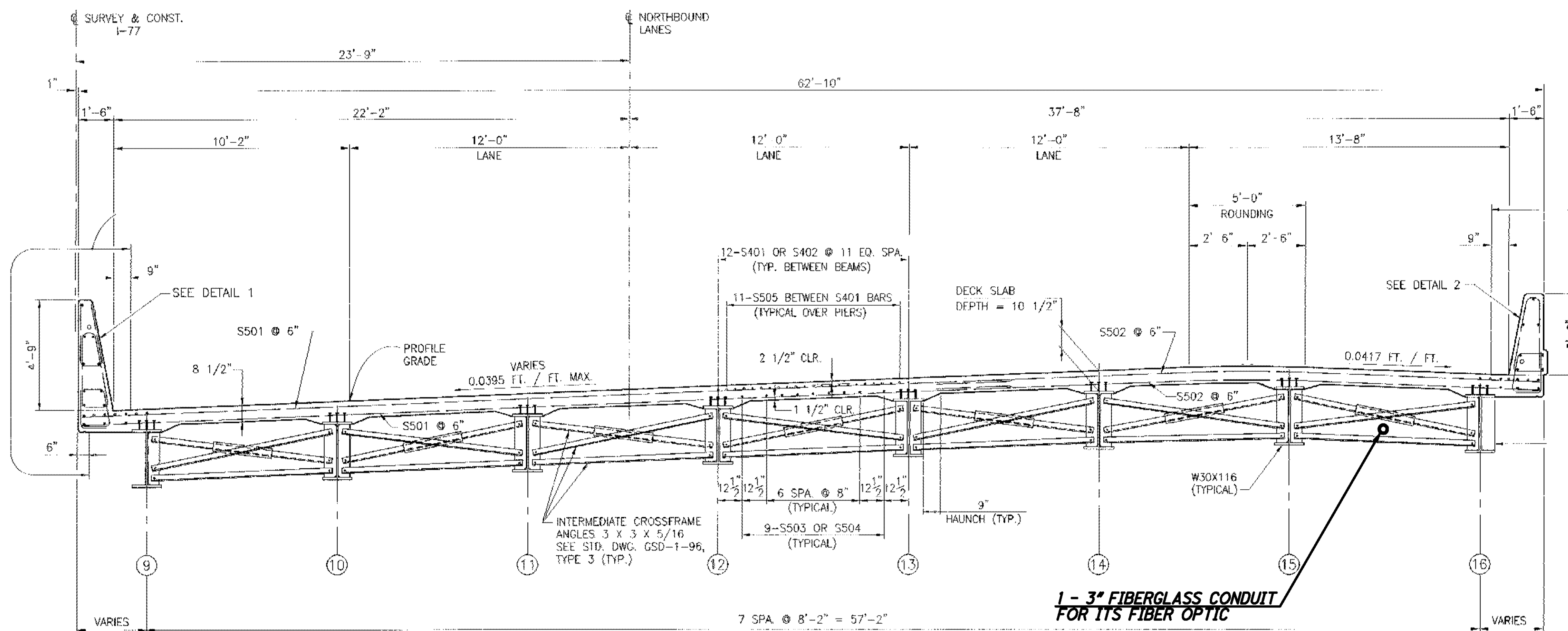
231  
390

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**FRAMING PLAN (RIGHT)**  
(ALL BEAMS ARE PARALLEL TO REFERENCE CHORD)

**1 - 3" FIBERGLASS CONDUIT FOR ITS FIBER OPTIC**  
**SEE DETAIL ON SHEET 13 FOR CROSS FRAME ATTACHMENT TYP.**



**TRANSVERSE SECTION**  
(NORTHBOUND BRIDGE)

**1 - 3" FIBERGLASS CONDUIT FOR ITS FIBER OPTIC**

**NOTE: INCLUDE EXPANSION COUPLING FOR FO-S AT ALL EXPANSION JOINTS INDICATED.**

**\* THESE SHEETS WERE TAKEN FROM ODOT RECORD PLANS AND ARE ONLY TO BE USED TO SHOW PROPOSED LOCATIONS OF CONDUIT, HANGERS AND EXPANSION COUPLINGS ON BRIDGE STRUCTURES AS NEEDED.**

**REFER TO SHEET 103 FOR PLAN SHEET**

**CONDUIT ATTACHED TO STRUCTURE DETAIL**

BRIDGE NO. STA-77-1317  
INTERSTATE 77 OVER NIMSHILLEN CREEK

**STA-SUM ITS**  
PID No. 77482

DESIGN AGENCY  
**OHIO DEPARTMENT OF TRANSPORTATION**

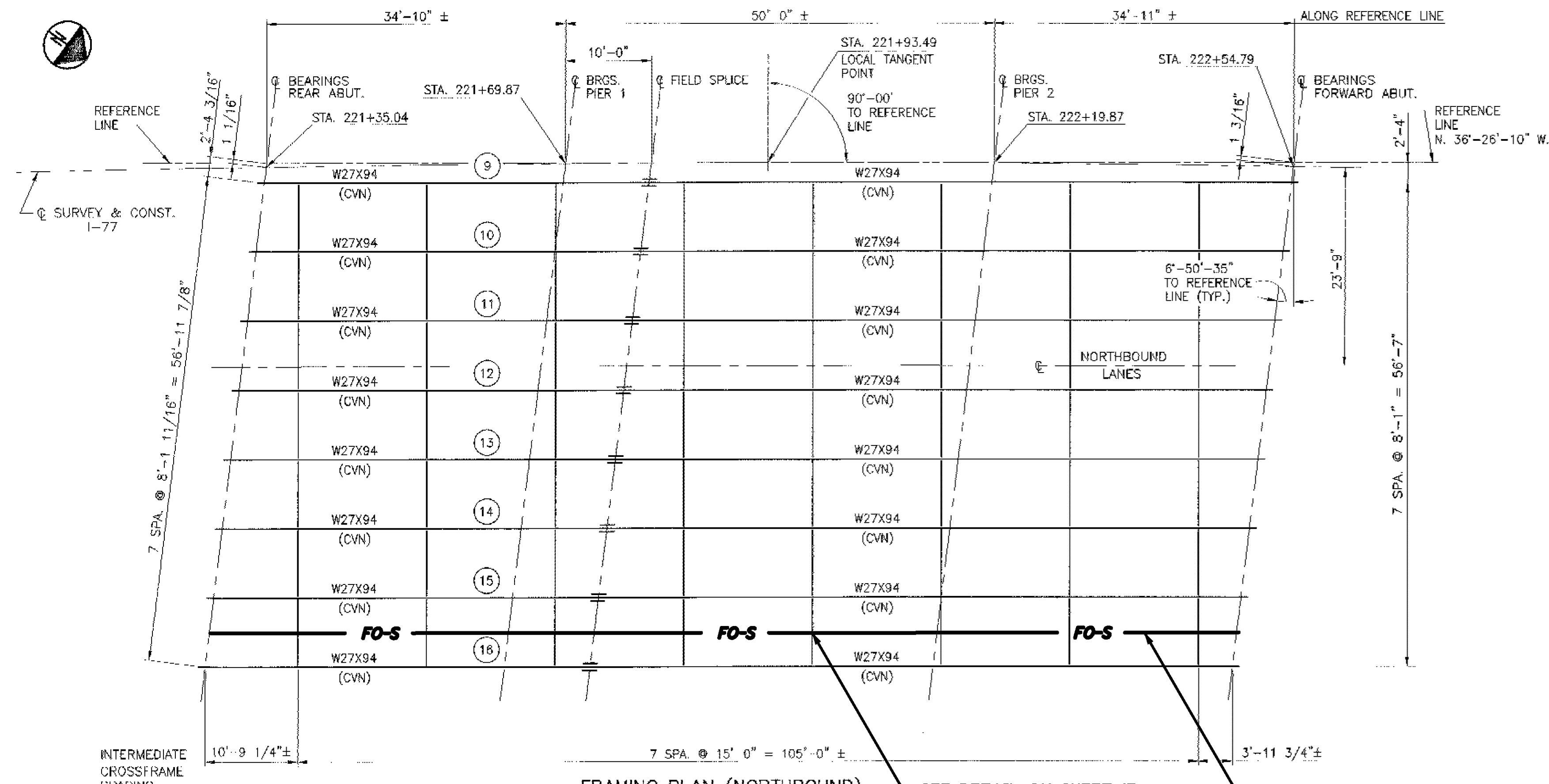
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REVIEWED  
STRUCTURE FILE NUMBER  
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DRAWN  
GM  
REVISION  
GM

DESIGNED  
RAW  
CHECKED  
JDC

232  
390

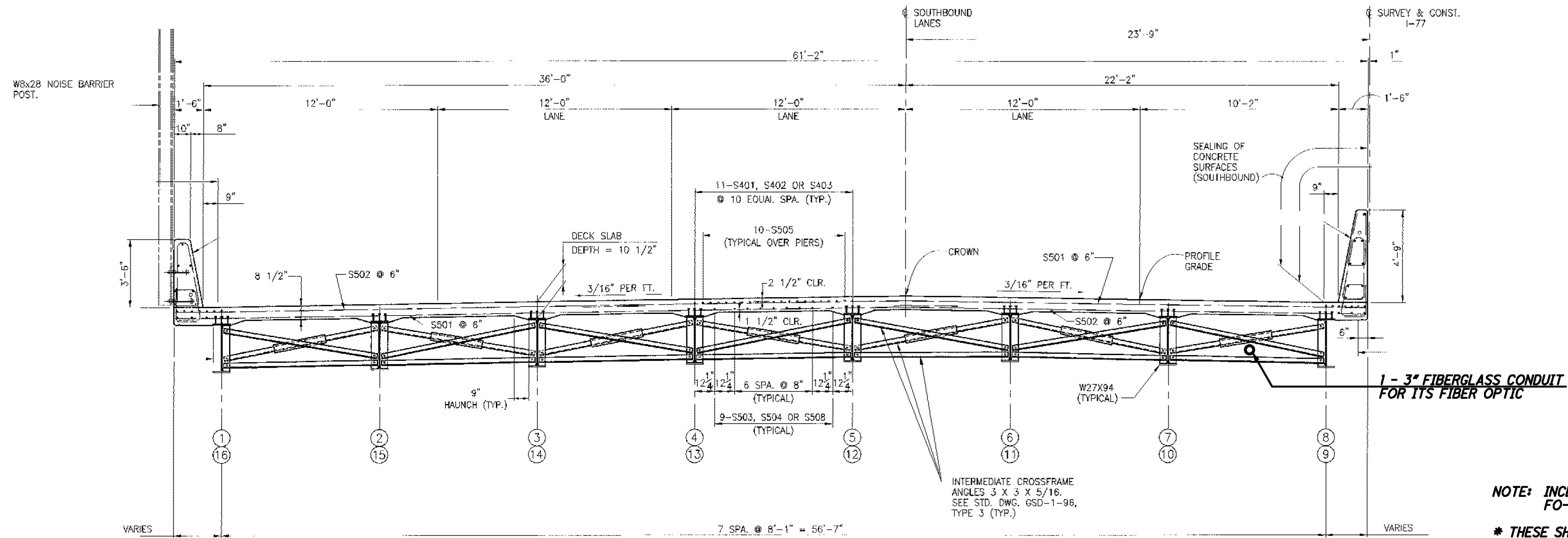
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**FRAMING PLAN (NORTHBOUND)**  
(ALL BEAMS ARE PARALLEL TO REFERENCE LINE)

**SEE DETAIL ON SHEET 13 FOR CROSS FRAME ATTACHMENT TYP.**

**1 - 3" FIBERGLASS CONDUIT FOR ITS FIBER OPTIC**



**TRANSVERSE SECTION**  
(SOUTHBOUND BRIDGE SHOWN, NORTHBOUND OPPOSITE HAND)

**NOTE: INCLUDE EXPANSION COUPLING FOR FO-S AT ALL EXPANSION JOINTS INDICATED.**

**\* THESE SHEETS WERE TAKEN FROM ODOT RECORD PLANS AND ARE ONLY TO BE USED TO SHOW PROPOSED LOCATIONS OF CONDUIT, HANGERS AND EXPANSION COUPLINGS ON BRIDGE STRUCTURES AS NEEDED.**

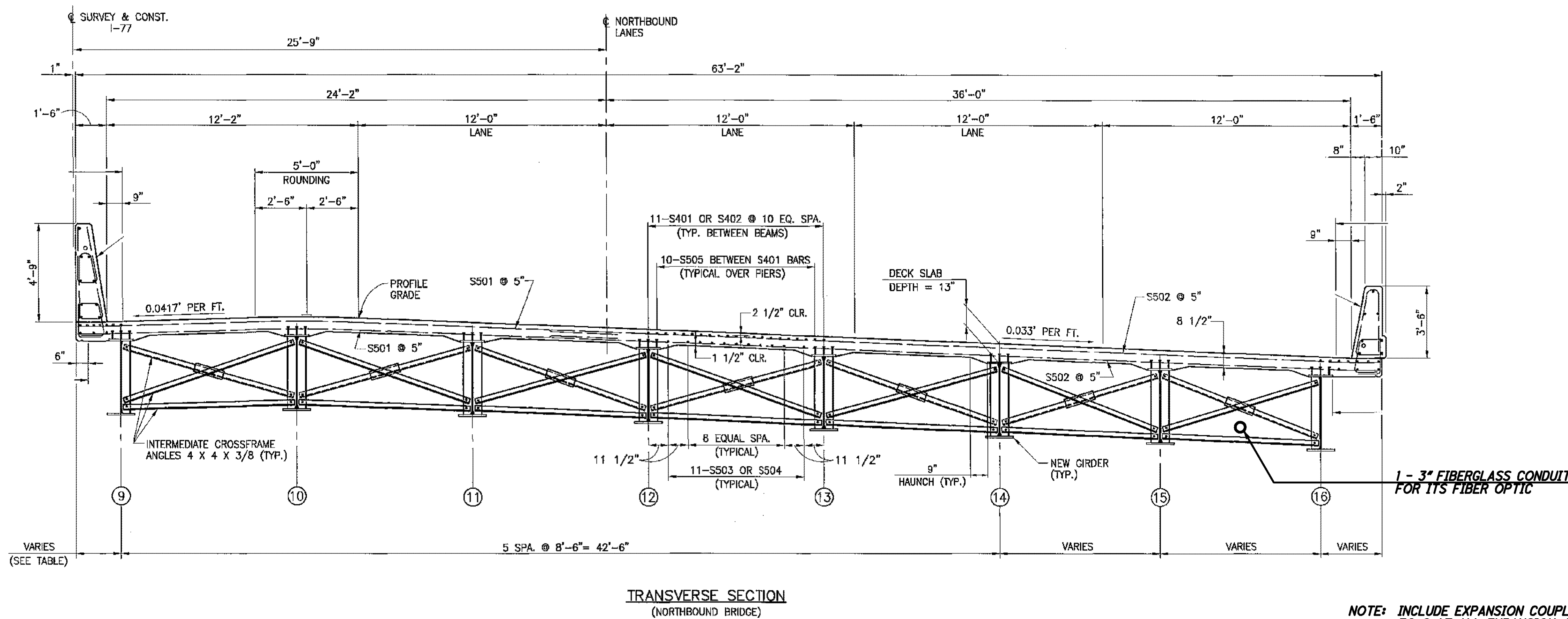
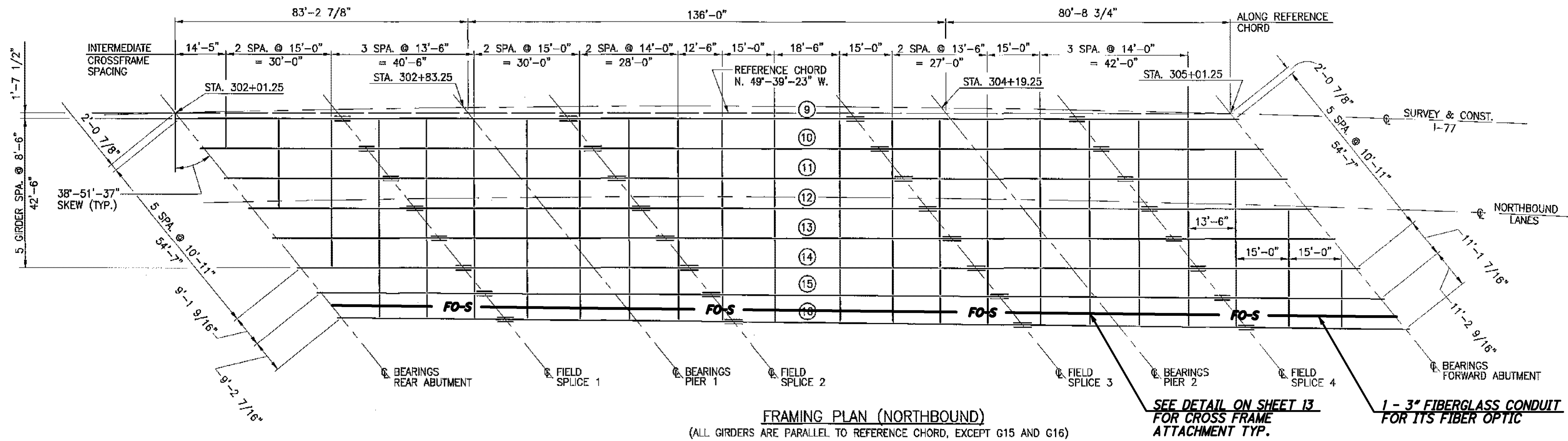
**REFER TO SHEET 104 FOR PLAN SHEET**

**CONDUIT ATTACHED TO STRUCTURE DETAIL**  
BRIDGE NO. STA-77-1350  
INTERSTATE 77 OVER 38TH STREET

**STA-SUM ITS**  
PID No. 77482

DESIGN AGENCY  
**OHIO DEPARTMENT OF TRANSPORTATION**

DESIGNED	RAW	CHECKED	JDG
DRAWN	GM	REVISION	GM
REVIEWED	STRUCTURE FILE NUMBER	760438R	
DATE			



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DESIGN AGENCY  
OHIO DEPARTMENT  
OF TRANSPORTATION

DATE  
REVIEWED  
STRUCTURE FILE NUMBER  
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DRAWN  
GM  
REVISION  
GM

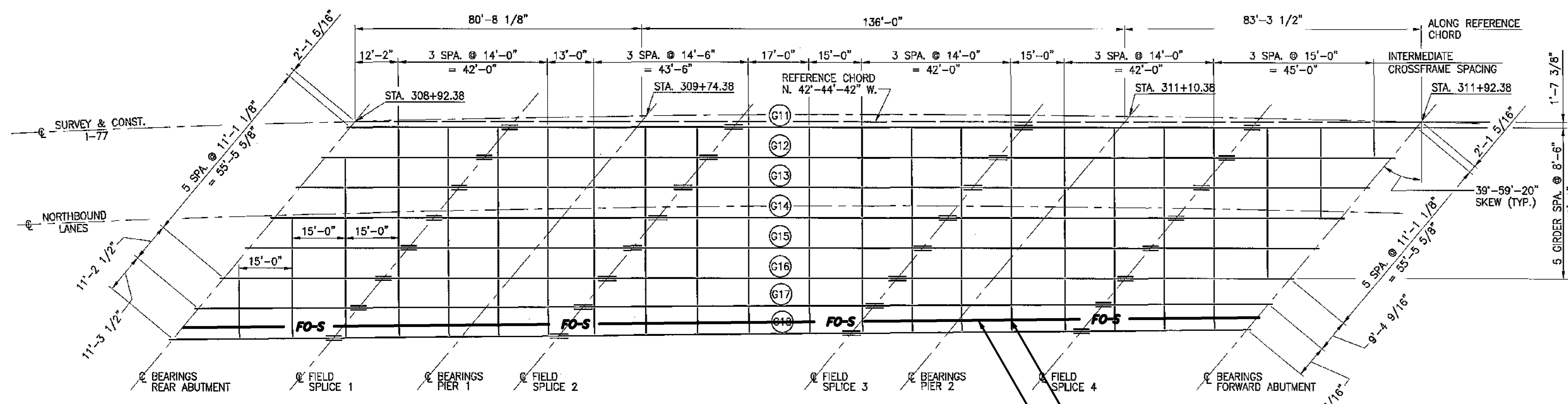
DESIGNED  
RAW  
CHECKED  
JDC

CONDUIT ATTACHED TO STRUCTURE DETAIL  
BRIDGE NO. STA-77-1504  
INTERSTATE 77 OVER WHIPPLE ROAD

STA-SUM ITS  
PID No. 77482

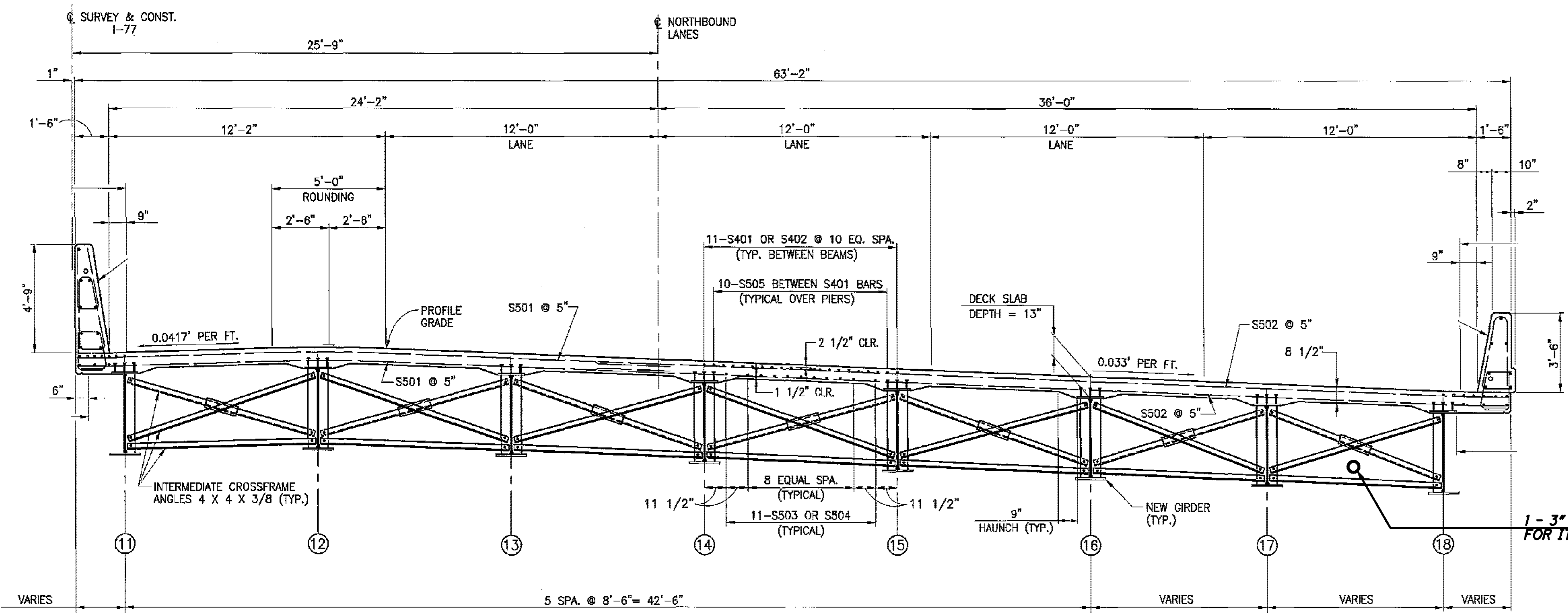
234  
390





**FRAMING PLAN (NORTHBOUND)**  
 (ALL GIRDERS ARE PARALLEL TO REFERENCE CHORD, EXCEPT G17 AND G18)

SEE DETAIL ON SHEET 13  
 FOR CROSS FRAME  
 ATTACHMENT TYP.  
 1 - 3" FIBERGLASS CONDUIT  
 FOR ITS FIBER OPTIC



**TRANSVERSE SECTION**  
 (NORTHBOUND BRIDGE)

1 - 3" FIBERGLASS CONDUIT  
 FOR ITS FIBER OPTIC

NOTE: INCLUDE EXPANSION COUPLING FOR  
 FO-S AT ALL EXPANSION JOINTS INDICATED.

\* THESE SHEETS WERE TAKEN FROM ODOT  
 RECORD PLANS AND ARE ONLY TO BE USED  
 TO SHOW PROPOSED LOCATIONS OF CONDUIT,  
 HANGERS AND EXPANSION COUPLINGS ON  
 BRIDGE STRUCTURES AS NEEDED.

REFER TO SHEET 107 FOR PLAN SHEET

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DESIGN AGENCY  
 OHIO DEPARTMENT  
 OF TRANSPORTATION

DATE  
 REVIEWED  
 STRUCTURE FILE NUMBER  
 7604513R

DRAWN  
 GM  
 REVISION  
 GM

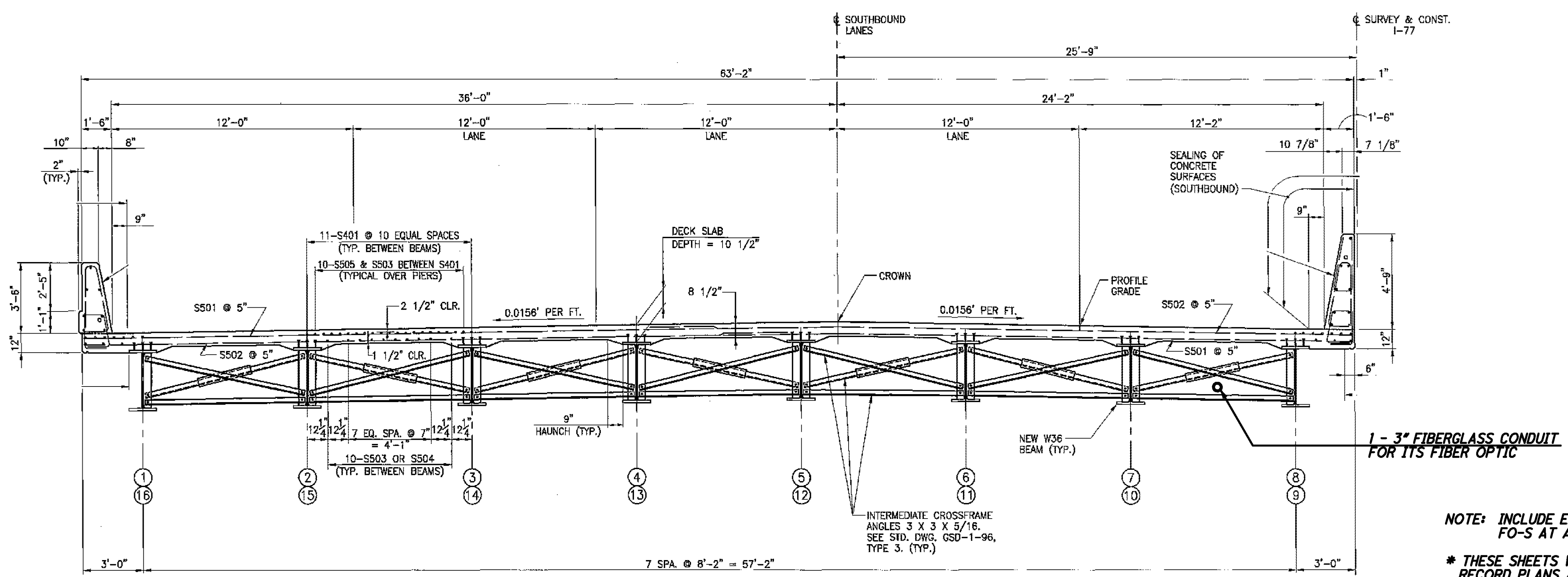
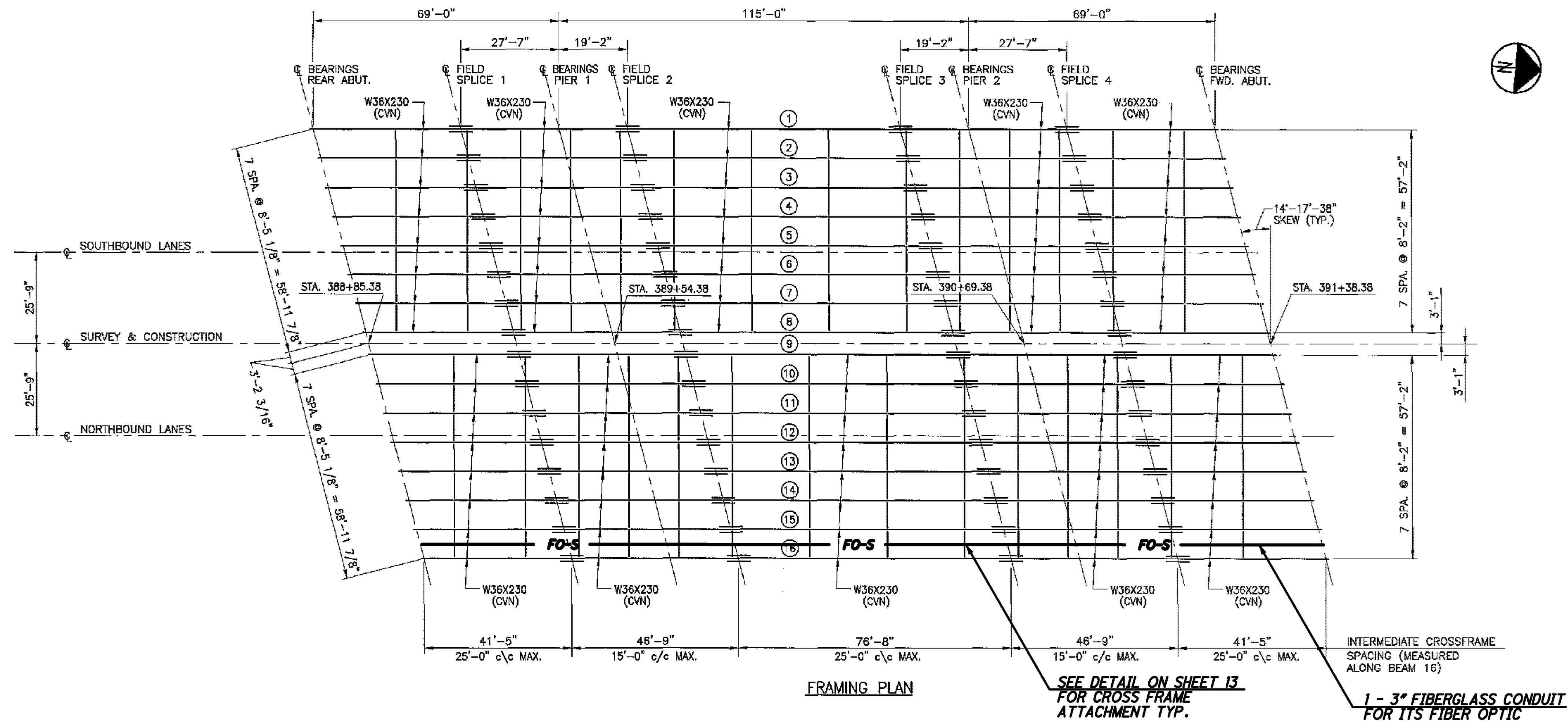
DESIGNED  
 RAW  
 CHECKED  
 JDC

CONDUIT ATTACHED TO STRUCTURE DETAIL  
 BRIDGE NO. STA-77-1516  
 INTERSTATE 77 OVER EVERHARD ROAD

STA-SUM ITS  
 PID No. 77482

235  
 390





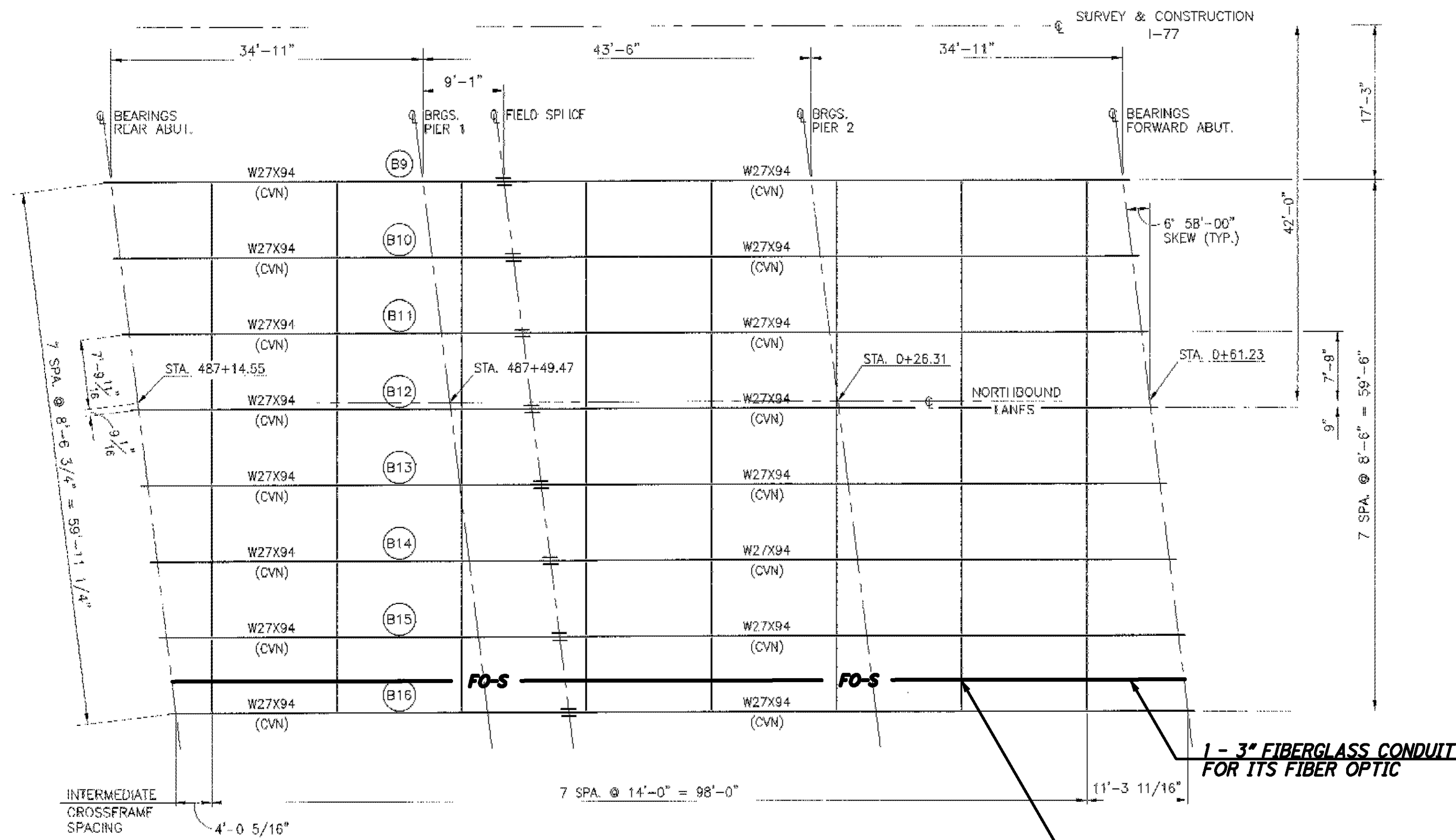
TRANSVERSE SECTION  
(SOUTHBOUND BRIDGE SHOWN, NORTHBOUND OPPOSITE HAND AND AS NOTED)



NOTE: INCLUDE EXPANSION COUPLING FOR FO-S AT ALL EXPANSION JOINTS INDICATED.  
\* THESE SHEETS WERE TAKEN FROM ODOT RECORD PLANS AND ARE ONLY TO BE USED TO SHOW PROPOSED LOCATIONS OF CONDUIT, HANGERS AND EXPANSION COUPLINGS ON BRIDGE STRUCTURES AS NEEDED.  
REFER TO SHEET 110 FOR PLAN SHEET

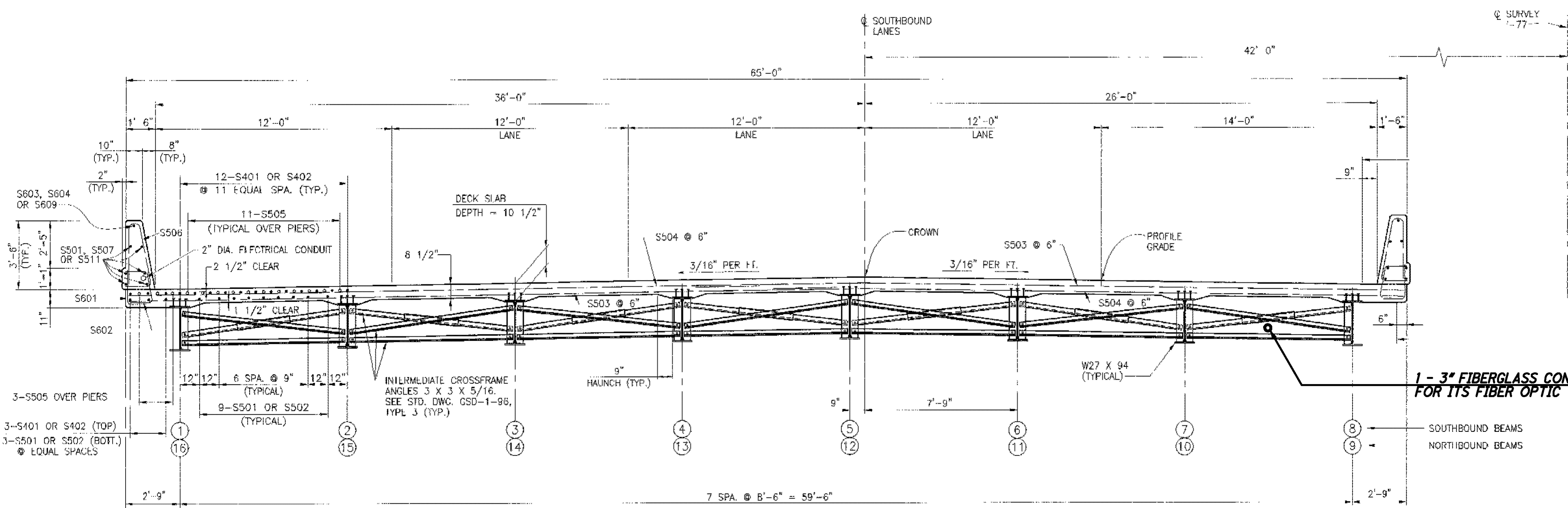
DESIGN AGENCY OHIO DEPARTMENT OF TRANSPORTATION	
DATE	STRUCTURE FILE NUMBER 7604661
REVIEWED	DRAWN GM
DESIGNED RAW	CHECKED JDG
CONDUIT ATTACHED TO STRUCTURE DETAIL BRIDGE NO. STA-77-1668 INTERSTATE 77 OVER PORTAGE STREET	
STA-SUM ITS	PID No. 77482
236 390	

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FRAMING PLAN (RIGHT)

SEE DETAIL ON SHEET 13 FOR CROSS FRAME ATTACHMENT TYP.



TRANSVERSE SECTION

(SOUTHBOUND BRIDGE SHOWN, NORTHBOUND OPPOSITE HAND)

NOTE: INCLUDE EXPANSION COUPLING FOR FO-S AT ALL EXPANSION JOINTS INDICATED.

\* THESE SHEETS WERE TAKEN FROM ODOT RECORD PLANS AND ARE ONLY TO BE USED TO SHOW PROPOSED LOCATIONS OF CONDUIT, HANGERS AND EXPANSION COUPLINGS ON BRIDGE STRUCTURES AS NEEDED.

REFER TO SHEET 114 FOR PLAN SHEET

CONDUIT ATTACHED TO STRUCTURE DETAIL

BRIDGE NO. STA-77-1853  
INTERSTATE 77 OVER MT. PLEASANT ROAD

STA-SUM ITS

PID No. 77482

DESIGN AGENCY  
OHIO DEPARTMENT  
OF TRANSPORTATION

DATE  
REVIEWED  
DRAWN  
DESIGNED

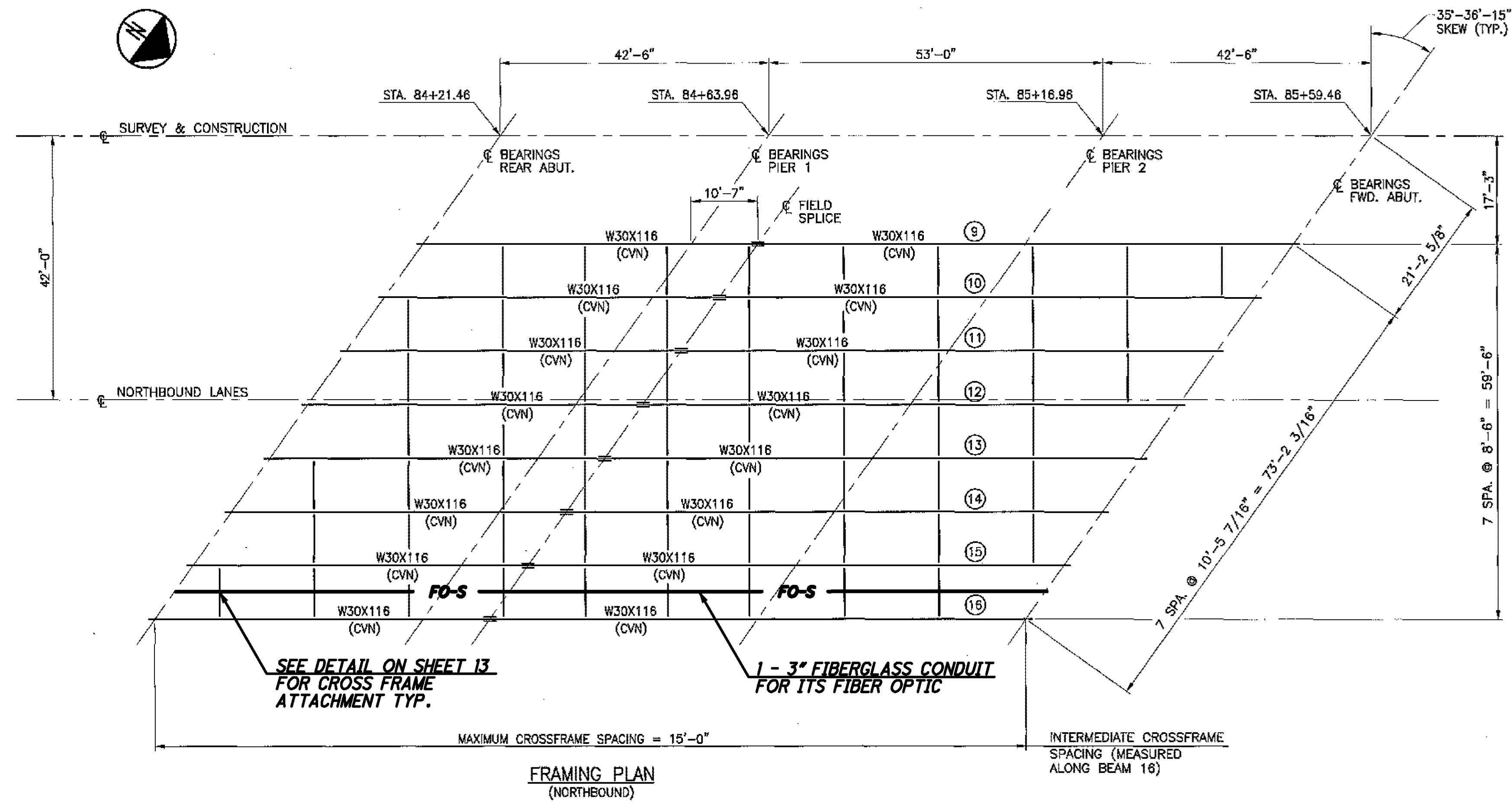
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GM  
JMG

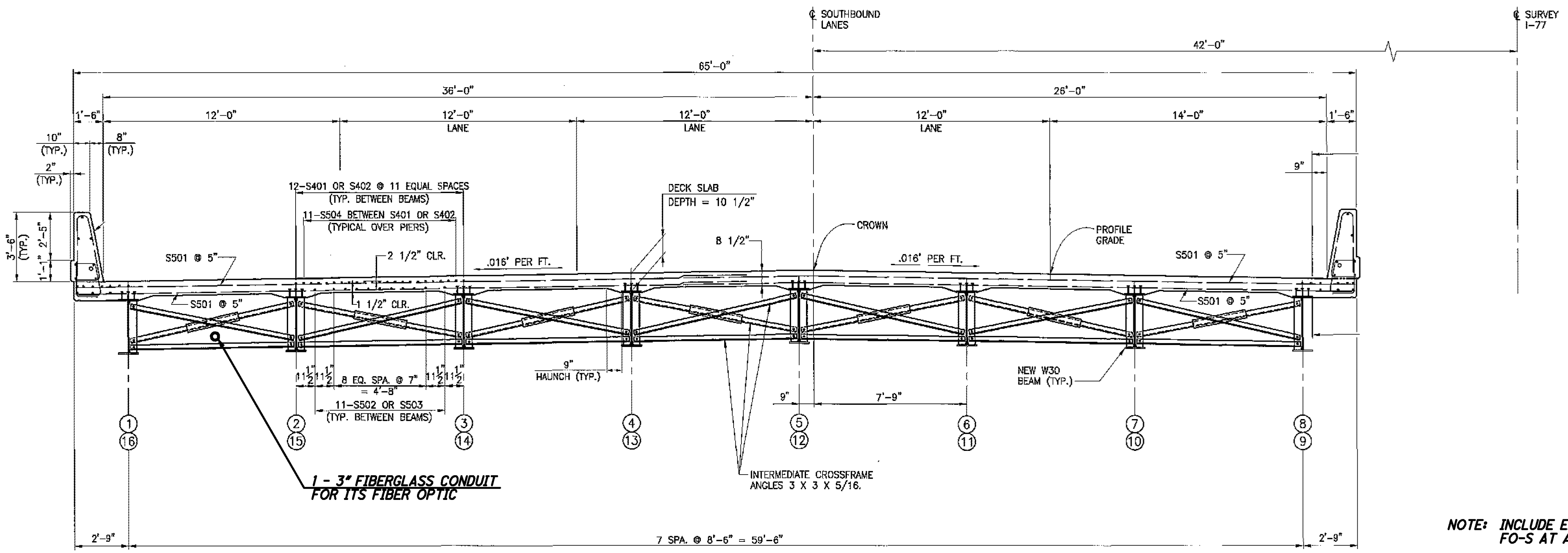
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760480TR

237  
390

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FRAMING PLAN  
(NORTHBOUND)



TRANSVERSE SECTION  
(SOUTHBOUND BRIDGE SHOWN, NORTHBOUND OPPOSITE HAND)

NOTE: INCLUDE EXPANSION COUPLING FOR FO-S AT ALL EXPANSION JOINTS INDICATED.

\* THESE SHEETS WERE TAKEN FROM ODOT RECORD PLANS AND ARE ONLY TO BE USED TO SHOW PROPOSED LOCATIONS OF CONDUIT, HANGERS AND EXPANSION COUPLINGS ON BRIDGE STRUCTURES AS NEEDED.

REFER TO SHEET 117 FOR PLAN SHEET

CONDUIT ATTACHED TO STRUCTURE DETAIL

BRIDGE NO. SUM-77-0157  
INTERSTATE 77 OVER GREENSBURG ROAD

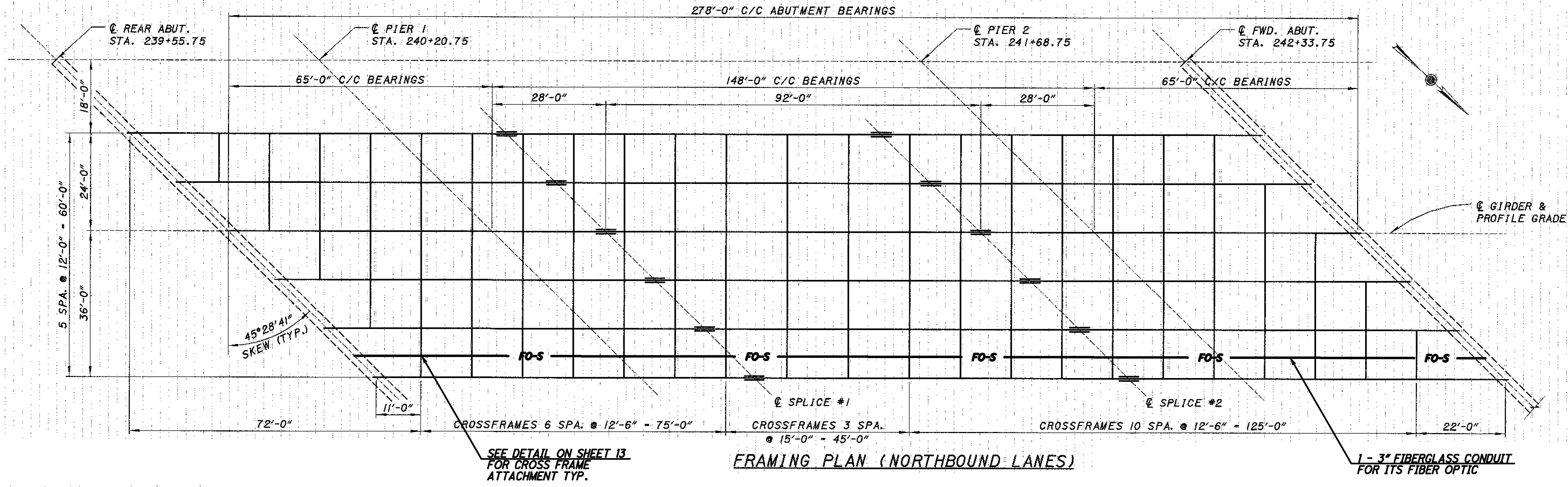
STA-SUM ITS  
PID No. 77482

DESIGN AGENCY  
OHIO DEPARTMENT  
OF TRANSPORTATION

DESIGNED	RAW	CHECKED	JDG
DRAWN	GM	REVISION	GM
REVIEWED	DATE	STRUCTURE FILE NUMBER	770216TR

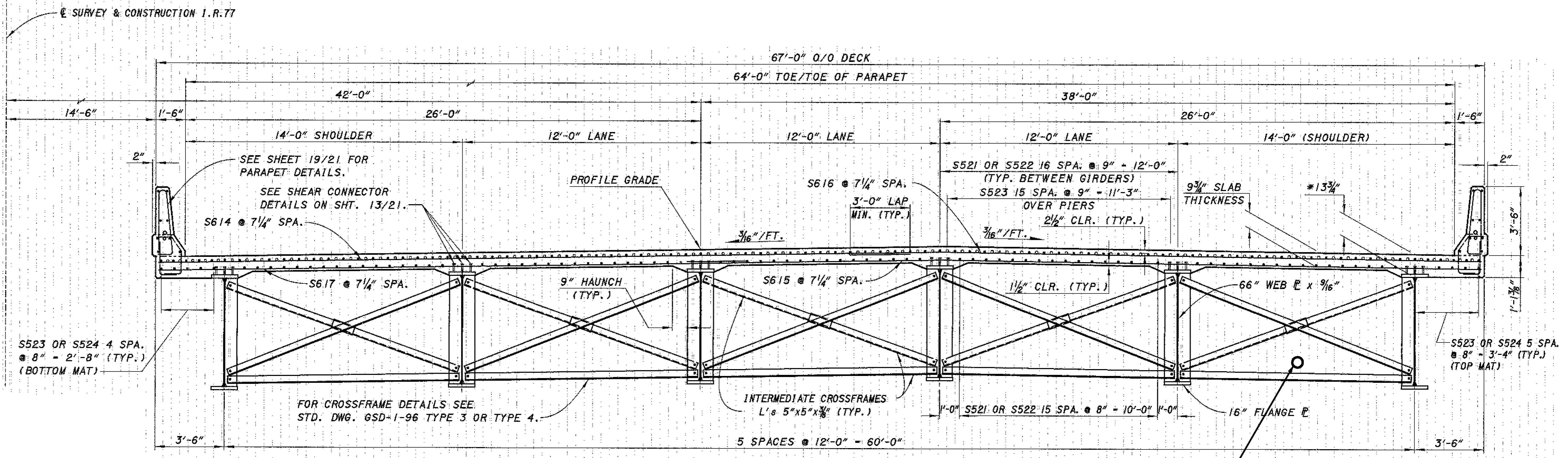


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FRAMING PLAN (NORTHBOUND LANES)

1 - 3" FIBERGLASS CONDUIT FOR ITS FIBER OPTIC



TRANSVERSE SECTION (NORTHBOUND LANES)

1 - 3" FIBERGLASS CONDUIT FOR ITS FIBER OPTIC

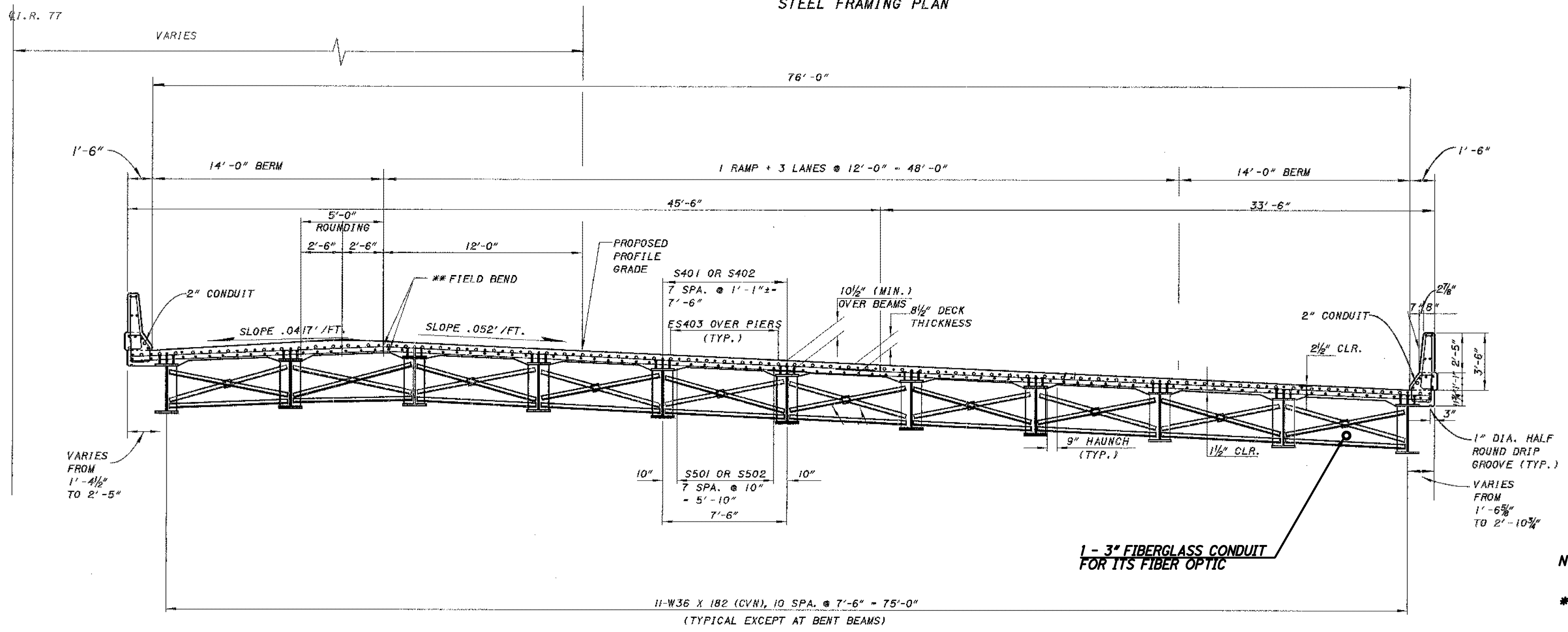
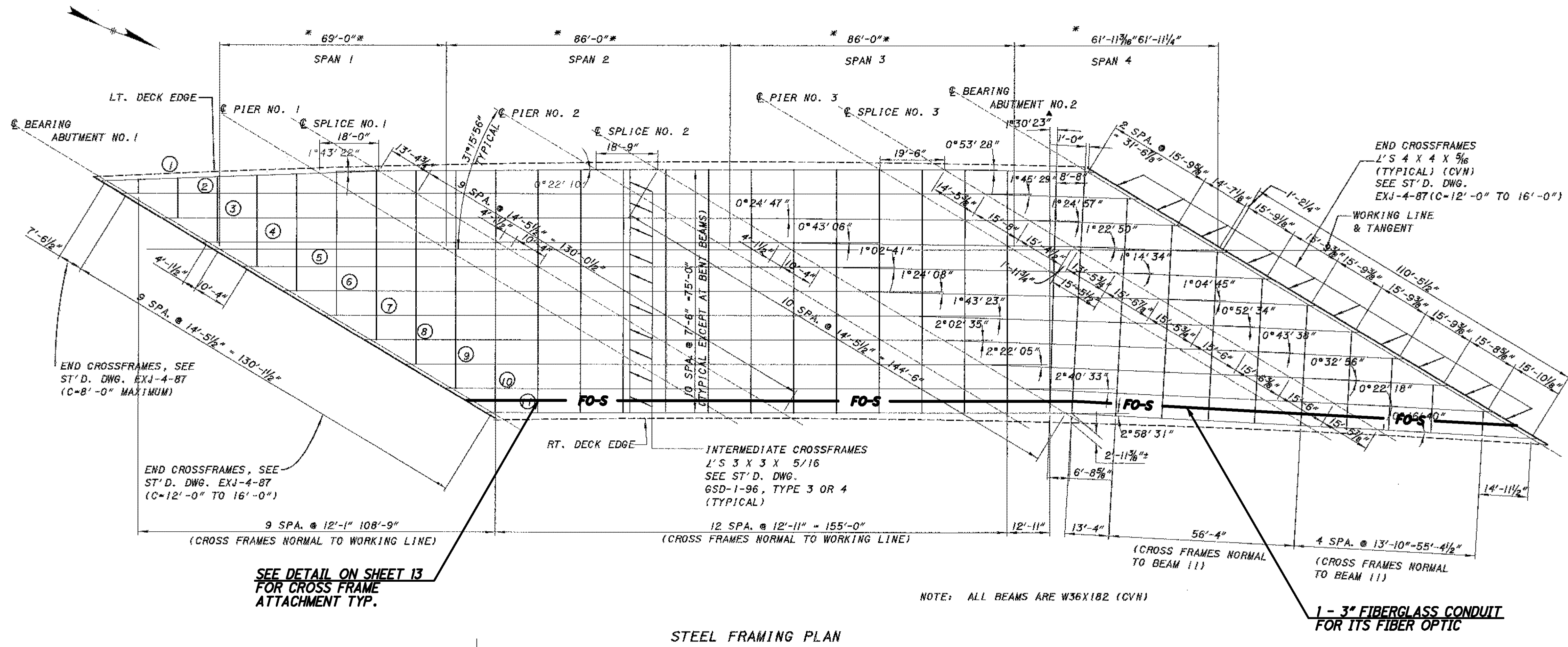
NOTE: INCLUDE EXPANSION COUPLING FOR FO-S AT ALL EXPANSION JOINTS INDICATED.

\* THESE SHEETS WERE TAKEN FROM ODOT RECORD PLANS AND ARE ONLY TO BE USED TO SHOW PROPOSED LOCATIONS OF CONDUIT, HANGERS AND EXPANSION COUPLINGS ON BRIDGE STRUCTURES AS NEEDED.

REFER TO SHEET 123 FOR PLAN SHEET

DESIGN AGENCY	OHIO DEPARTMENT OF TRANSPORTATION		
	DATE		
REVIEWED	STRUCTURE FILE NUMBER		
	7702329R		
DRAWN	GM		
	REVISION		
DESIGNED	RAW		
	CHECKED		
JDC	JDC		
	JDC		
CONDUIT ATTACHED TO STRUCTURE DETAIL			
BRIDGE NO. SUM-77-0451			
INTERSTATE 77 OVER MASSILLON ROAD			
STA-SUM ITS	PID No. 77482		
<table border="1"> <tr> <td>239</td> </tr> <tr> <td>390</td> </tr> </table>		239	390
239			
390			

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NOTE: INCLUDE EXPANSION COUPLING FOR FO-S AT ALL EXPANSION JOINTS INDICATED.

\* THESE SHEETS WERE TAKEN FROM ODOT RECORD PLANS AND ARE ONLY TO BE USED TO SHOW PROPOSED LOCATIONS OF CONDUIT, HANGERS AND EXPANSION COUPLINGS ON BRIDGE STRUCTURES AS NEEDED.

REFER TO SHEET 127 FOR PLAN SHEET

CONDUIT ATTACHED TO STRUCTURE DETAIL

BRIDGE NO. SUM-77-0670

INTERSTATE 77 OVER S. ARLINGTON ROAD

STA-SUM ITS

PID No. 77482

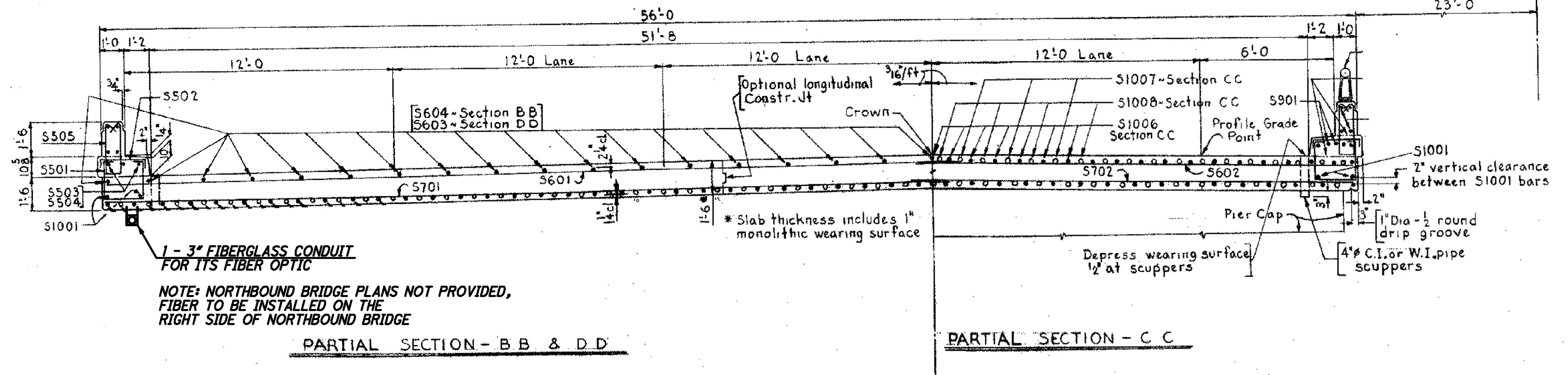
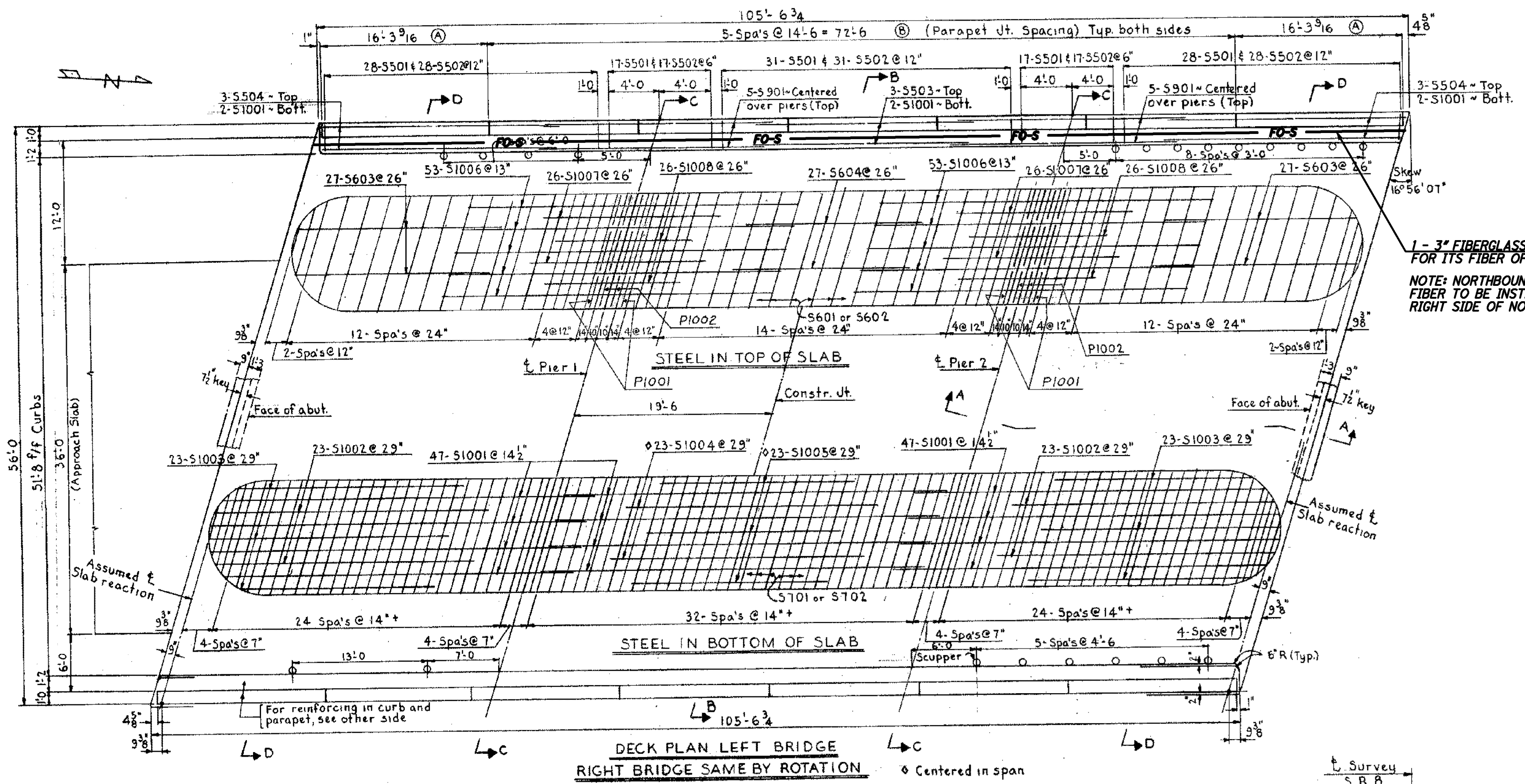
240

390

DESIGNED	RAW	CHECKED	JDG
DRAWN	GM	REVIEWED	GM
DATE	REVIEWED	STRUCTURE FILE NUMBER	7702434R
DESIGN AGENCY	OHIO DEPARTMENT OF TRANSPORTATION		



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1 - 3" FIBERGLASS CONDUIT FOR ITS FIBER OPTIC  
 NOTE: NORTHBOUND BRIDGE PLANS NOT PROVIDED, FIBER TO BE INSTALLED ON THE RIGHT SIDE OF NORTHBOUND BRIDGE

NOTE: NORTHBOUND BRIDGE PLANS NOT PROVIDED, FIBER TO BE INSTALLED ON THE RIGHT SIDE OF NORTHBOUND BRIDGE

NOTE: INCLUDE EXPANSION COUPLING FOR FO-S AT ALL EXPANSION JOINTS INDICATED.

\* THESE SHEETS WERE TAKEN FROM ODOT RECORD PLANS AND ARE ONLY TO BE USED TO SHOW PROPOSED LOCATIONS OF CONDUIT, HANGERS AND EXPANSION COUPLINGS ON BRIDGE STRUCTURES AS NEEDED.

REFER TO SHEET 130 FOR PLAN SHEET

DESIGN AGENCY  
OHIO DEPARTMENT  
OF TRANSPORTATION

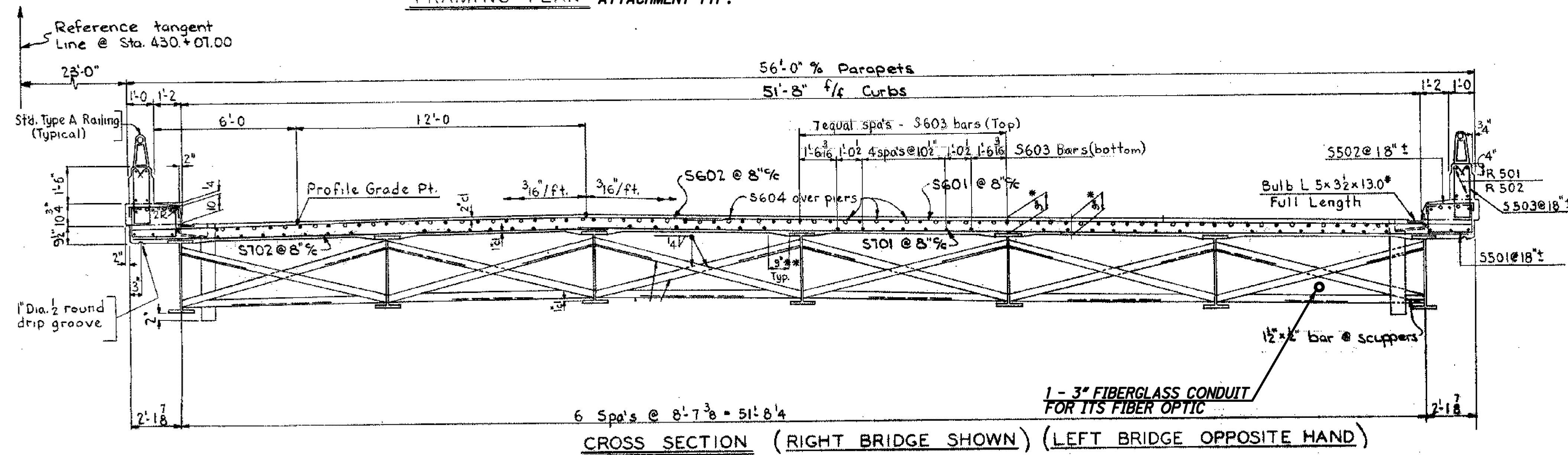
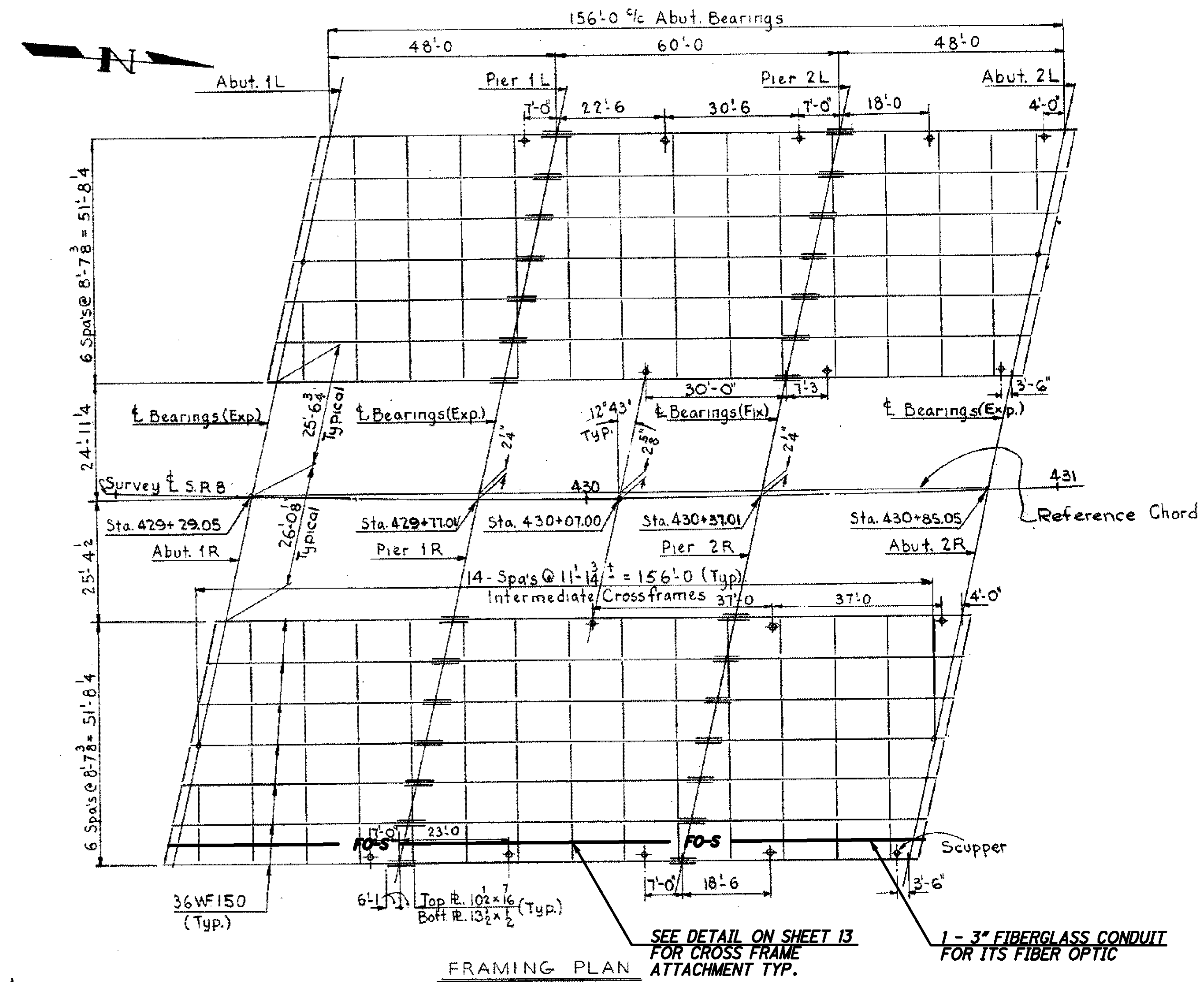
DATE  
REVIEWED  
STRUCTURE FILE NUMBER  
7702523R

DRAWN  
GM  
CHECKED  
JMG

CONDUIT ATTACHED TO STRUCTURE DETAIL  
 BRIDGE NO. SUM-77-0803  
 INTERSTATE 77 OVER WARNER ROAD

STA - SUM ITS  
 PID No. 77482

241  
390



NOTE: INCLUDE EXPANSION COUPLING FOR FO-S AT ALL EXPANSION JOINTS INDICATED.

\* THESE SHEETS WERE TAKEN FROM ODOT RECORD PLANS AND ARE ONLY TO BE USED TO SHOW PROPOSED LOCATIONS OF CONDUIT, HANGERS AND EXPANSION COUPLINGS ON BRIDGE STRUCTURES AS NEEDED.

REFER TO SHEET 130 FOR PLAN SHEET

CONDUIT ATTACHED TO STRUCTURE DETAIL

BRIDGE NO. SUM-77-0810  
INTERSTATE 77 OVER TUSCARWAS RIVER

STA-SUM ITS  
PID No. 77482

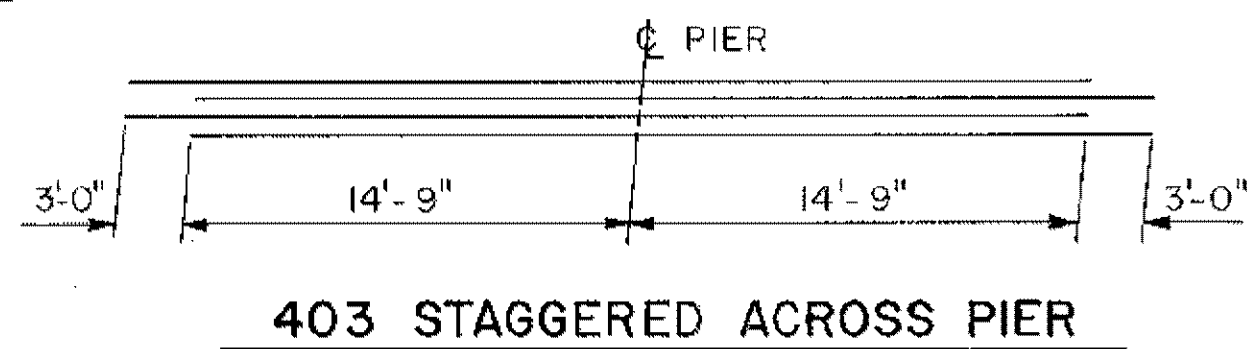
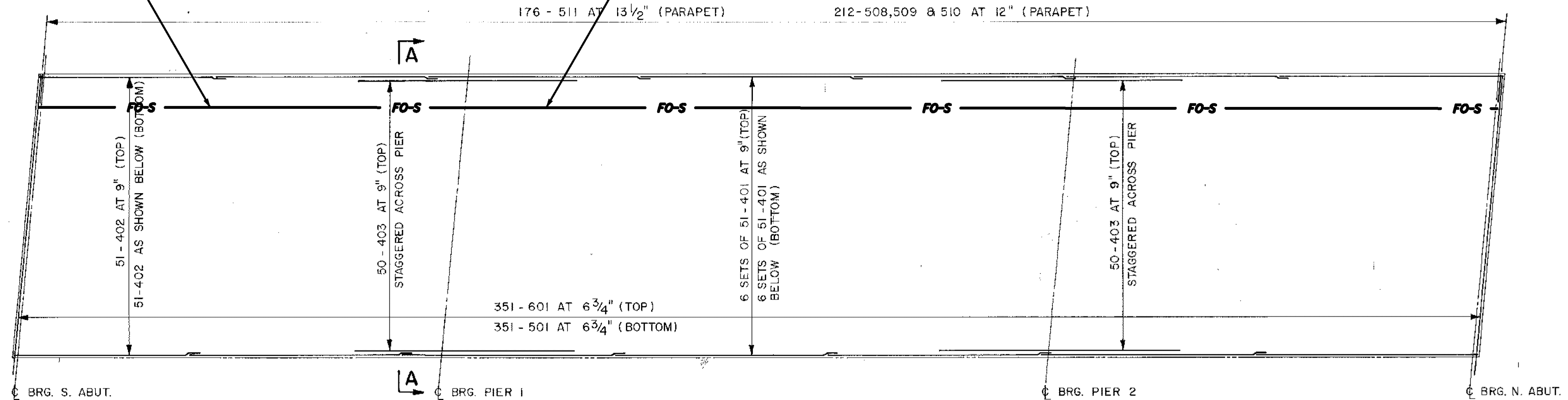
DESIGN AGENCY  
OHIO DEPARTMENT  
OF TRANSPORTATION

DESIGNED	RAW	DRAWN	GM	REVIEWED	DATE
CHECKED	JDG	REUSED	GM	STRUCTURE FILE NUMBER	7702582R

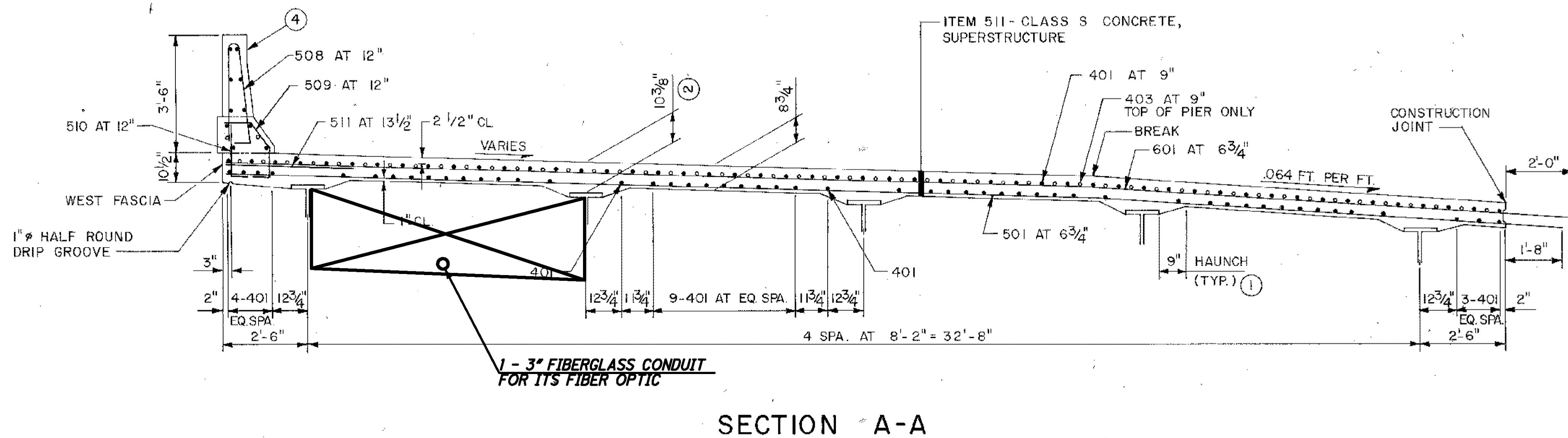
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1 - 3" FIBERGLASS CONDUIT FOR ITS FIBER OPTIC

SEE DETAIL ON SHEET 13 FOR CROSS FRAME ATTACHMENT TYP.



### SLAB PLAN



### SECTION A-A

NOTE: INCLUDE EXPANSION COUPLING FOR FO-S AT ALL EXPANSION JOINTS INDICATED.

\* THESE SHEETS WERE TAKEN FROM ODOT RECORD PLANS AND ARE ONLY TO BE USED TO SHOW PROPOSED LOCATIONS OF CONDUIT, HANGERS AND EXPANSION COUPLINGS ON BRIDGE STRUCTURES AS NEEDED.

REFER TO SHEET 133 FOR PLAN SHEET

DESIGN AGENCY  
OHIO DEPARTMENT  
OF TRANSPORTATION

DATE  
REVIEWED  
STRUCTURE FILE NUMBER  
7702136R

DRAWN  
GM  
REVISION  
GM  
DESIGNED  
RAW  
CHECKED  
JDG

CONDUIT ATTACHED TO STRUCTURE DETAIL  
BRIDGE NO. SUM-77-0975  
INTERSTATE 77 OVER WATERLOO ROAD

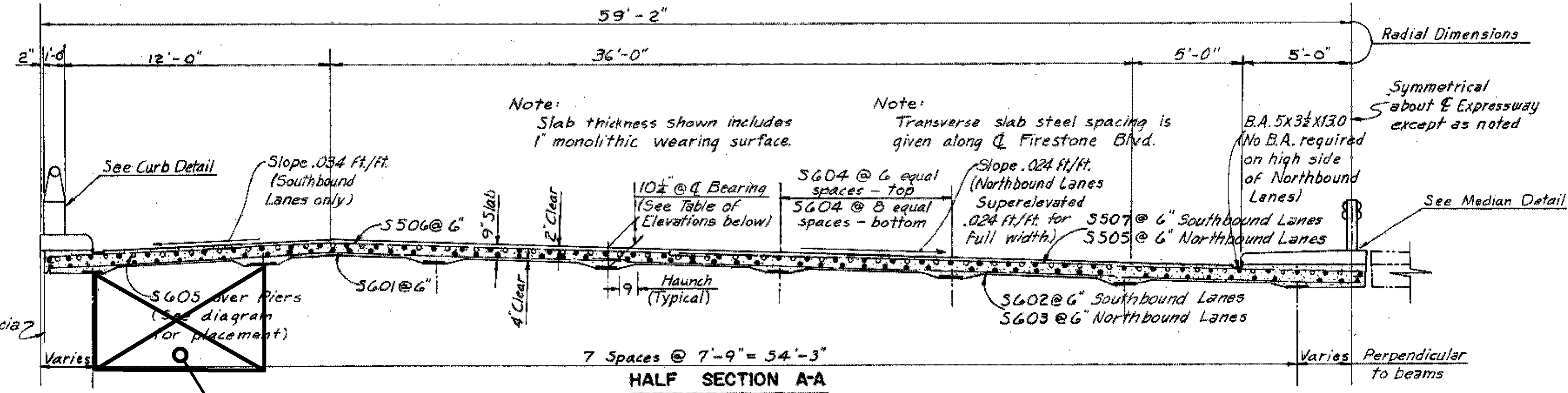
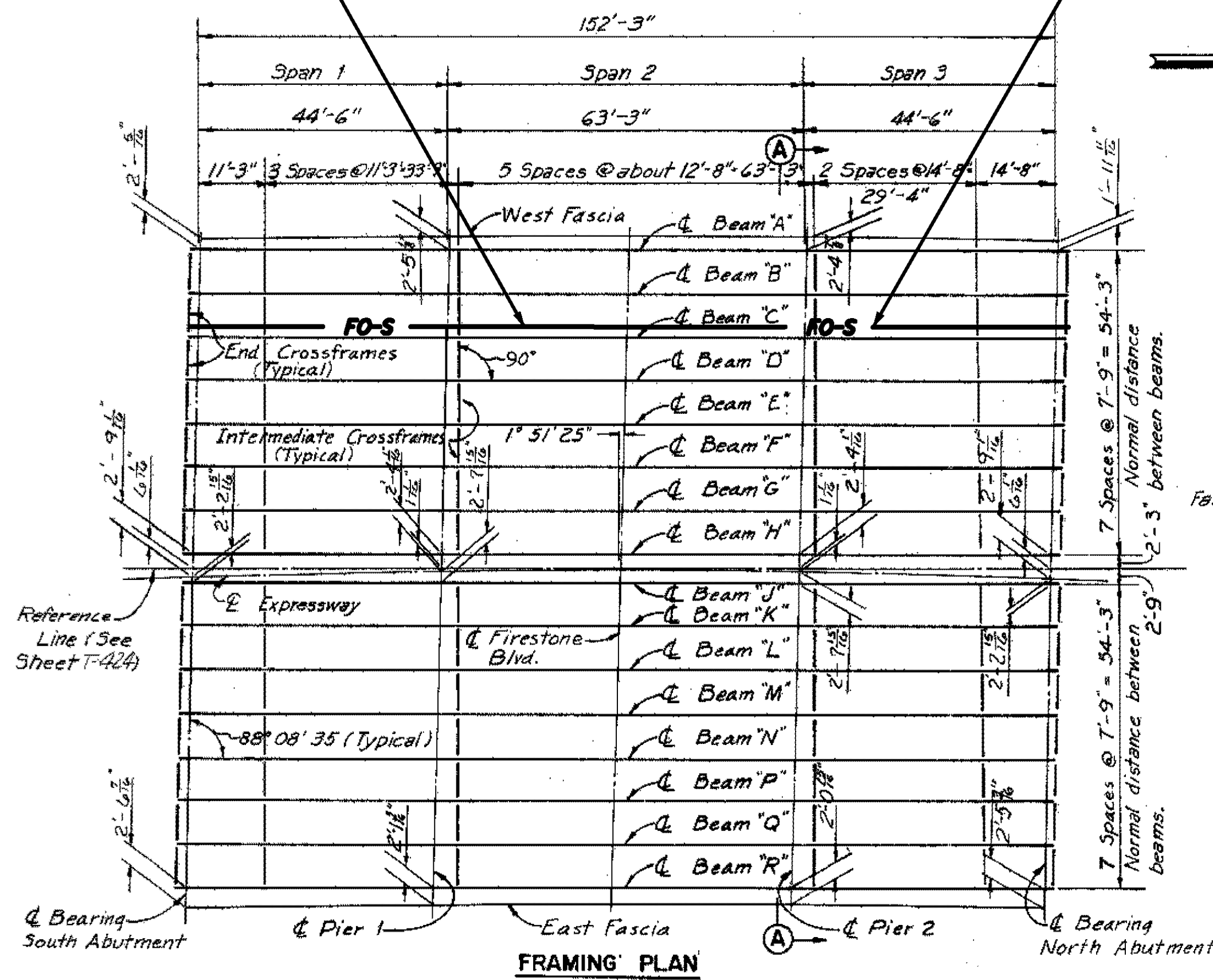
STA-SUM ITS  
PID No. 77482

243  
390



1 - 3" FIBERGLASS CONDUIT FOR ITS FIBER OPTIC

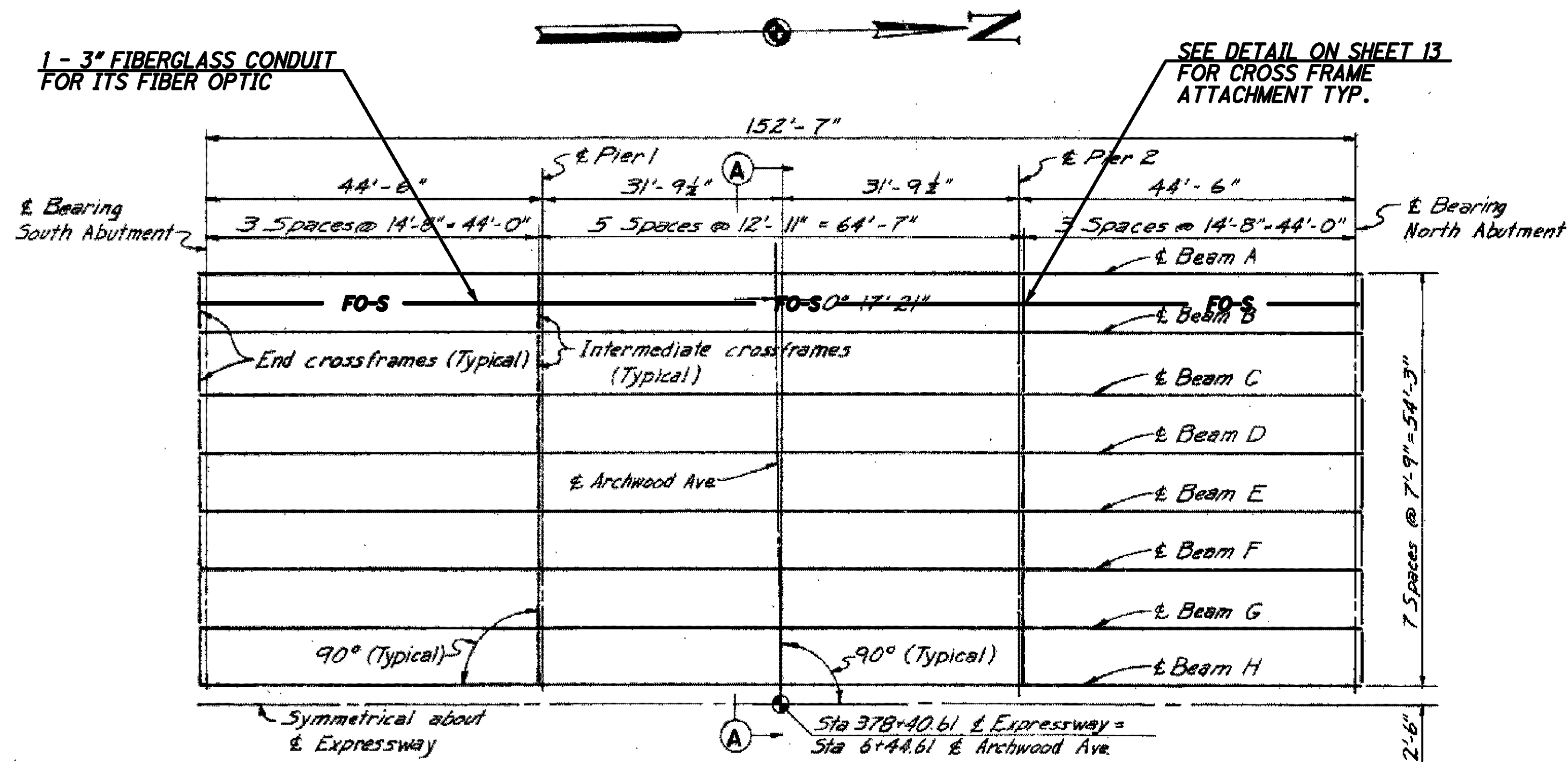
SEE DETAIL ON SHEET 13 FOR CROSS FRAME ATTACHMENT TYP.



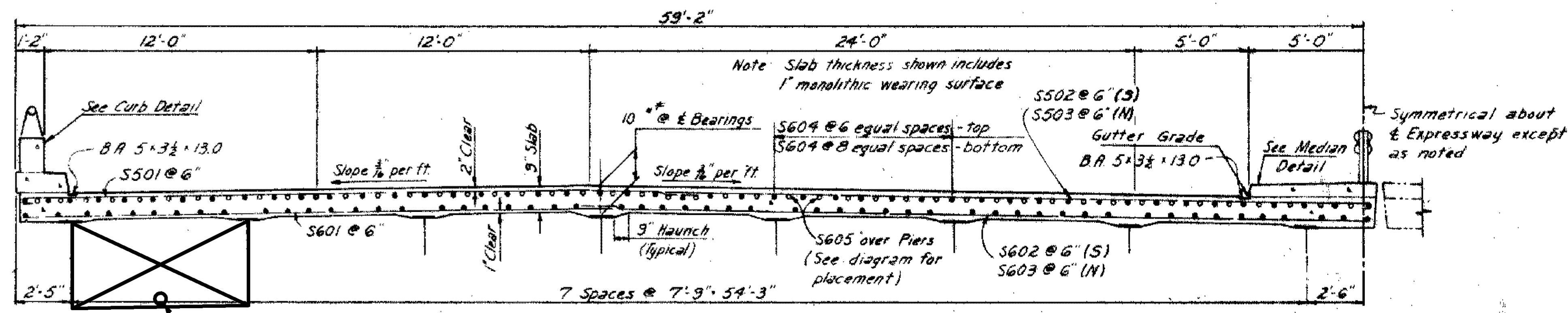
1 - 3" FIBERGLASS CONDUIT FOR ITS FIBER OPTIC

DESIGNED	RAW	CHECKED	JDG
	GM	REVISION	GM
DRAWN	GM	REVIEWED	DATE
STRUCTURE FILE NUMBER	7702795	DESIGN AGENCY	OHIO DEPARTMENT OF TRANSPORTATION
CONDUIT ATTACHED TO STRUCTURE DETAIL			
BRIDGE NO. SUM-77-1080			
INTERSTATE 77 OVER FIRESTONE BLVD.			
STA - SUM ITS	PID No. 77482		
NOTE: INCLUDE EXPANSION COUPLING FOR FO-S AT ALL EXPANSION JOINTS INDICATED.			
* THESE SHEETS WERE TAKEN FROM ODOT RECORD PLANS AND ARE ONLY TO BE USED TO SHOW PROPOSED LOCATIONS OF CONDUIT, HANGERS AND EXPANSION COUPLINGS ON BRIDGE STRUCTURES AS NEEDED.			
REFER TO SHEET 135 FOR PLAN SHEET			
244 390			

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FRAMING PLAN



SECTION A-A

Note:  
(N) denotes Northbound Roadway  
(S) denotes Southbound Roadway

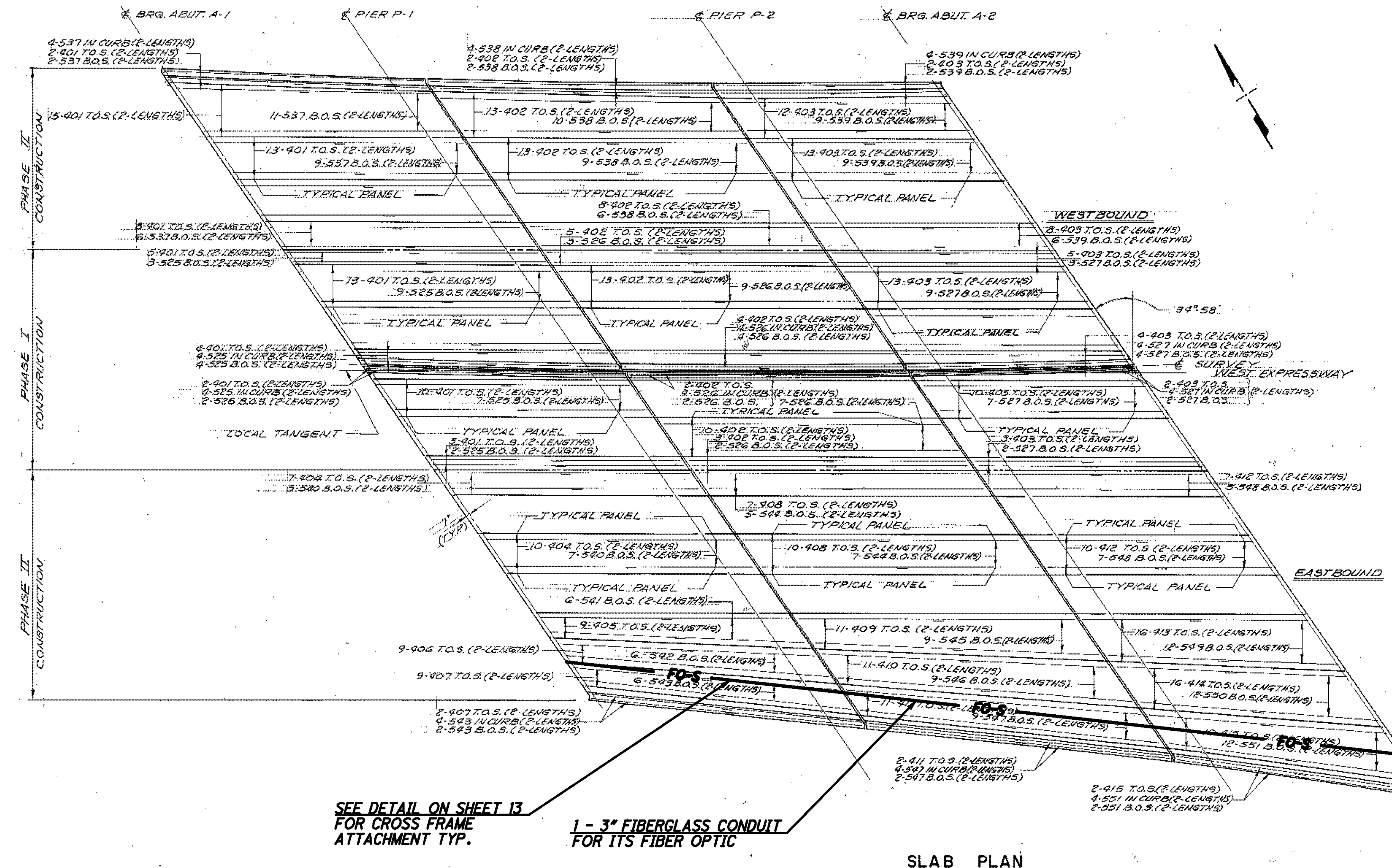
NOTE: INCLUDE EXPANSION COUPLING FOR FO-S AT ALL EXPANSION JOINTS INDICATED.

\* THESE SHEETS WERE TAKEN FROM ODOT RECORD PLANS AND ARE ONLY TO BE USED TO SHOW PROPOSED LOCATIONS OF CONDUIT, HANGERS AND EXPANSION COUPLINGS ON BRIDGE STRUCTURES AS NEEDED.

REFER TO SHEET 136 FOR PLAN SHEET

STA-SUM ITS PID No. 77482	CONDUIT ATTACHED TO STRUCTURE DETAIL		DESIGNED RAW	DRAWN GM	REVIEWED GM	DATE	DESIGN AGENCY OHIO DEPARTMENT OF TRANSPORTATION
	BRIDGE NO. SUM-77-1096 INTERSTATE 77 OVER ARCHWOOD AVENUE		CHECKED JDC	REVISIONS GM	STRUCTURE FILE NUMBER 7702884		

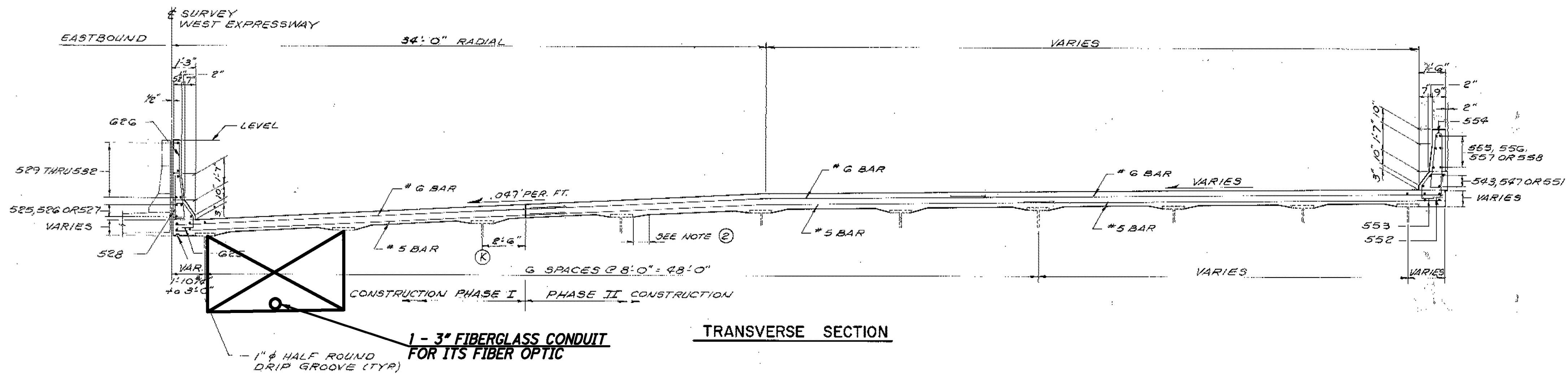




SEE DETAIL ON SHEET 13 FOR CROSS FRAME ATTACHMENT TYP.

1 - 3" FIBERGLASS CONDUIT FOR ITS FIBER OPTIC

SLAB PLAN



TRANSVERSE SECTION

NOTE: INCLUDE EXPANSION COUPLING FOR FO-S AT ALL EXPANSION JOINTS INDICATED.

\* THESE SHEETS WERE TAKEN FROM ODOT RECORD PLANS AND ARE ONLY TO BE USED TO SHOW PROPOSED LOCATIONS OF CONDUIT, HANGERS AND EXPANSION COUPLINGS ON BRIDGE STRUCTURES AS NEEDED.

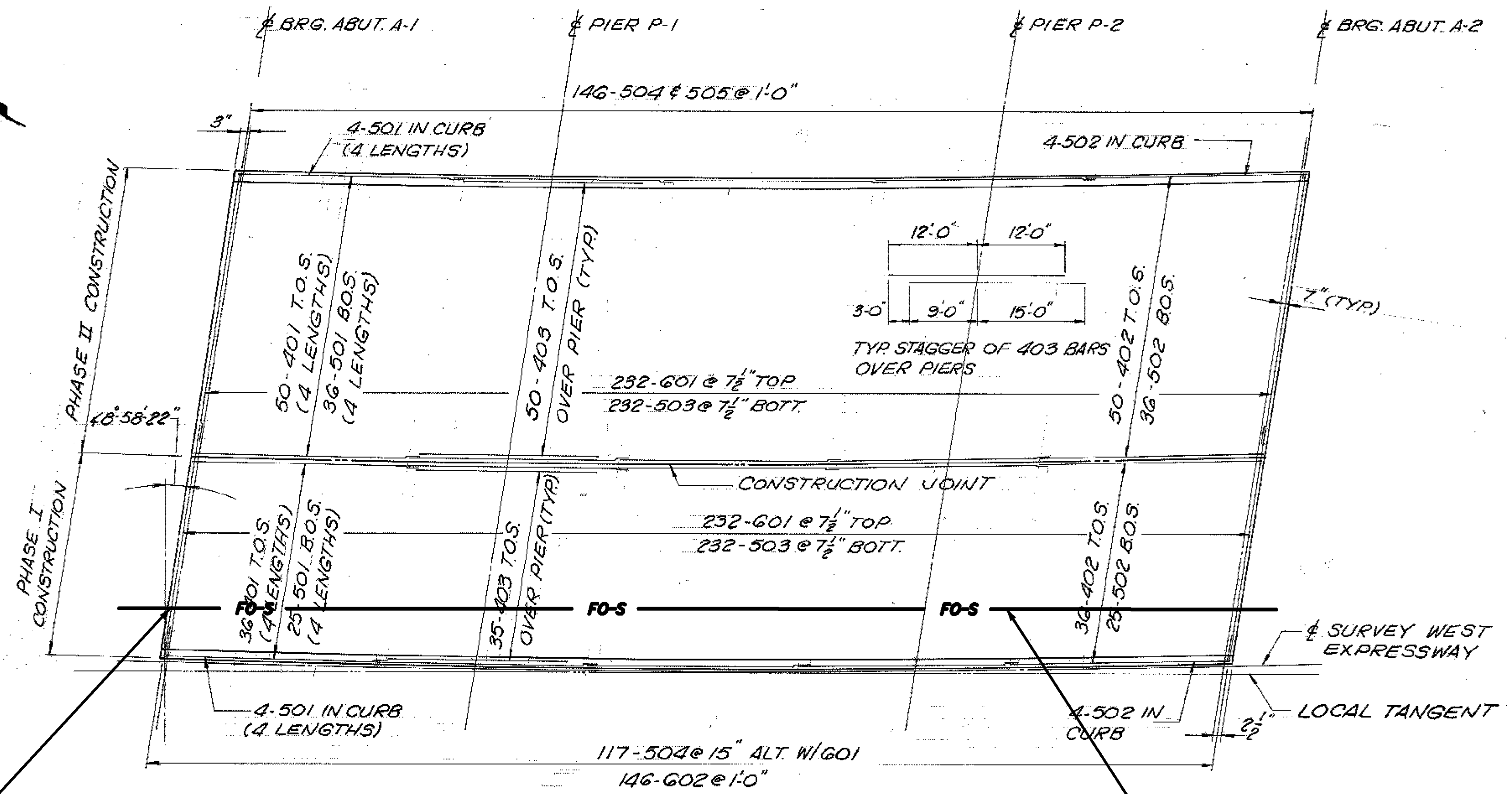
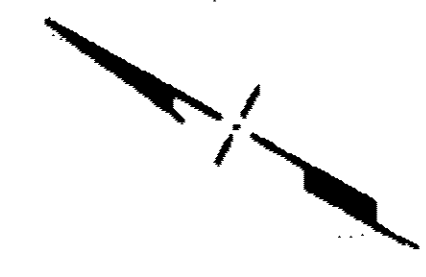
REFER TO SHEET 70 FOR PLAN SHEET

DESIGNED RAW CHECKED JDC	DRAWN GM REVISED GM	REVIEWED	DATE	DESIGN AGENCY
		STRUCTURE FILE NUMBER 7703600		OHIO DEPARTMENT OF TRANSPORTATION
CONDUIT ATTACHED TO STRUCTURE DETAIL				
BRIDGE NO. SUM-77-1547				
INTERSTATE 77 OVER HAWKINS AVENUE				
STA-SUM ITS				
PID No. 77482				
246				
390				

NOTE: INCLUDE EXPANSION COUPLING FOR FO-S AT ALL EXPANSION JOINTS INDICATED.

\* THESE SHEETS WERE TAKEN FROM ODOT RECORD PLANS AND ARE ONLY TO BE USED TO SHOW PROPOSED LOCATIONS OF CONDUIT, HANGERS AND EXPANSION COUPLINGS ON BRIDGE STRUCTURES AS NEEDED.

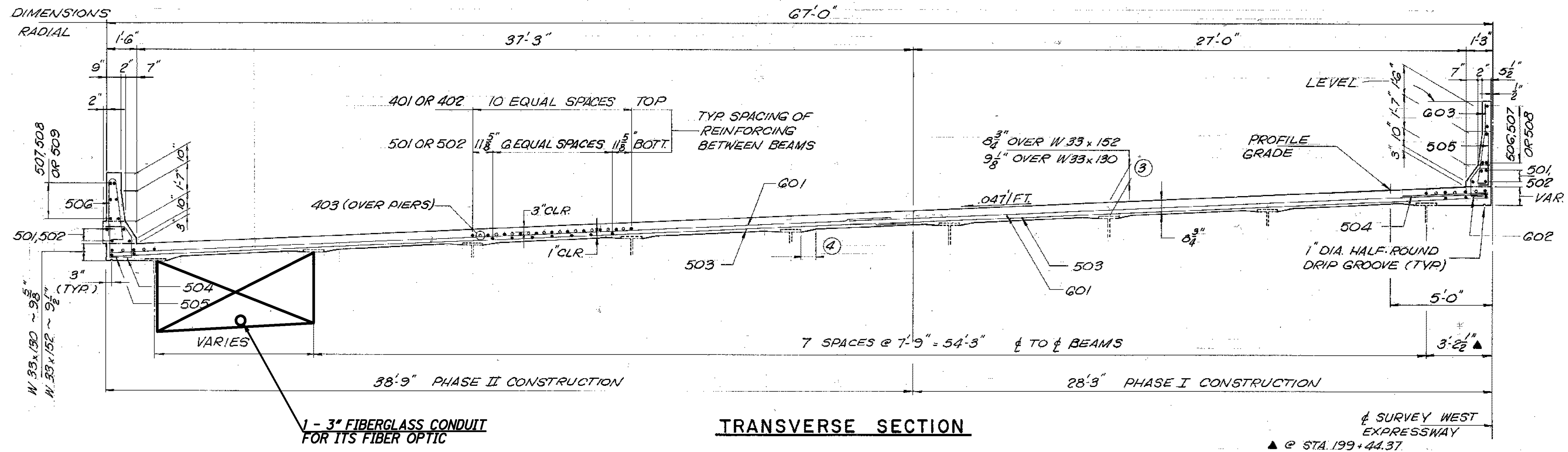
REFER TO SHEET 138 FOR PLAN SHEET



1 - 3" FIBERGLASS CONDUIT FOR ITS FIBER OPTIC

SLAB PLAN WESTBOUND

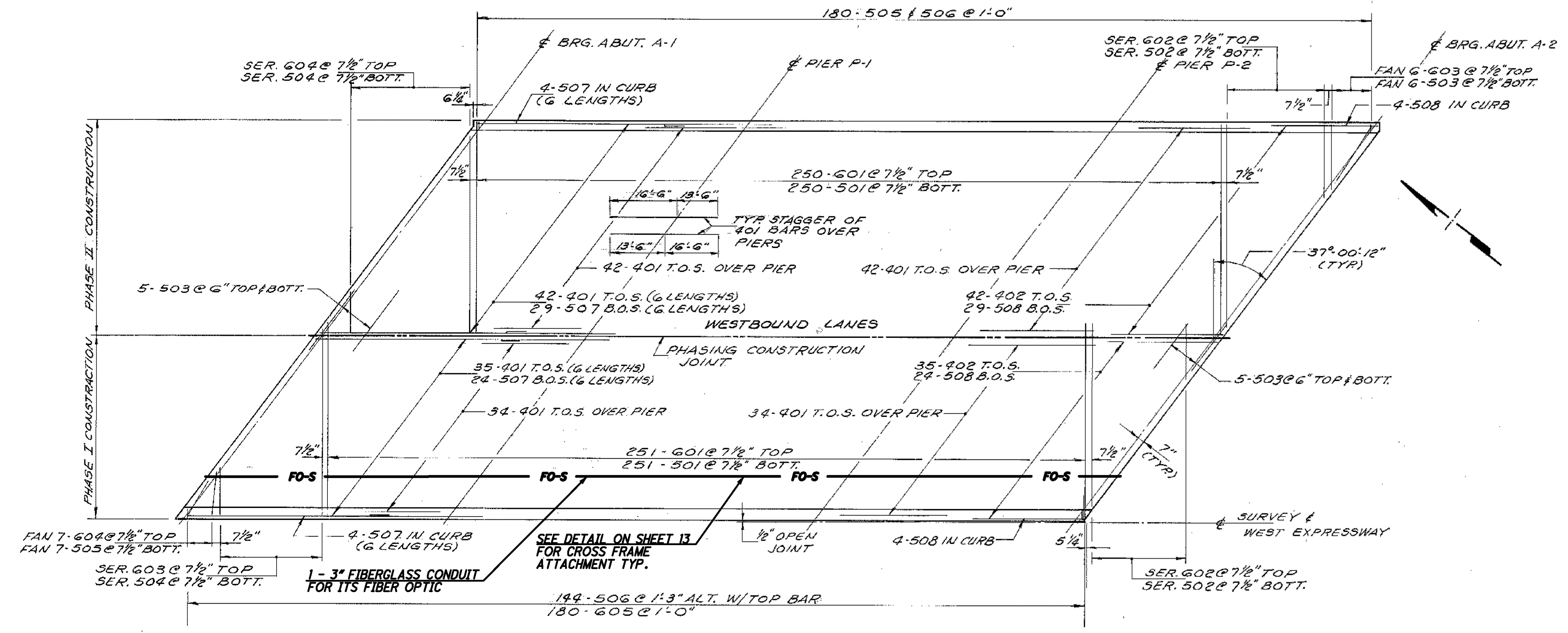
SEE DETAIL ON SHEET 13 FOR CROSS FRAME ATTACHMENT TYP.



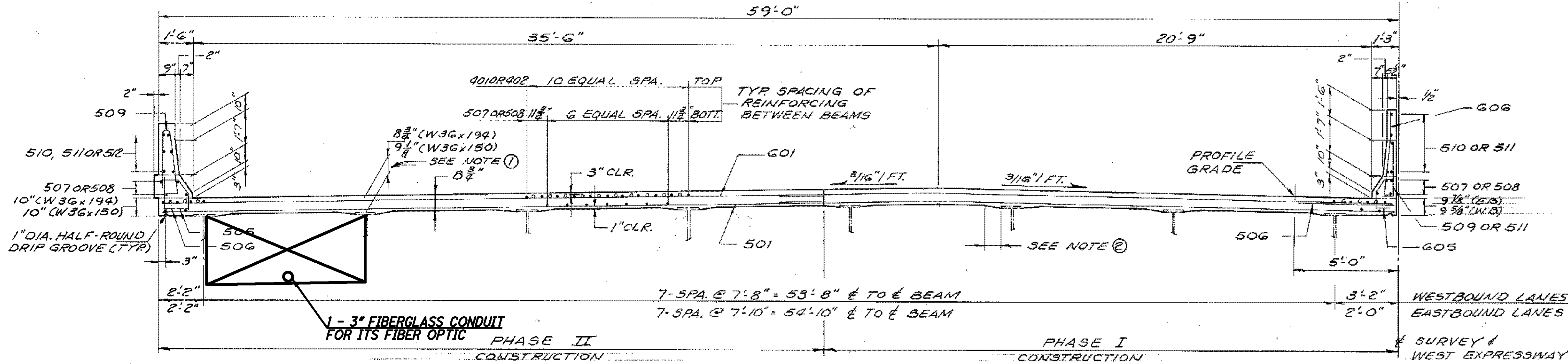
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DESIGN AGENCY OHIO DEPARTMENT OF TRANSPORTATION	DATE	REVIEWED	DRAWN	DESIGNED
	STRUCTURE FILE NUMBER 7703635	GM	GM	RAW
STA-SUM ITS PID No. 77482	CONDUIT ATTACHED TO STRUCTURE DETAIL BRIDGE NO. SUM-77-1572 INTERSTATE 77 OVER VERN ODOM BLVD.	CHECKED	REVISION	CHECKED
		JDG	GM	JDG
247 390				

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**SLAB PLAN**  
WESTBOUND SHOWN EASTBOUND SIMILAR



**TRANSVERSE SECTION**  
WESTBOUND SHOWN EASTBOUND SIMILAR

NOTE: INCLUDE EXPANSION COUPLING FOR FO-S AT ALL EXPANSION JOINTS INDICATED.

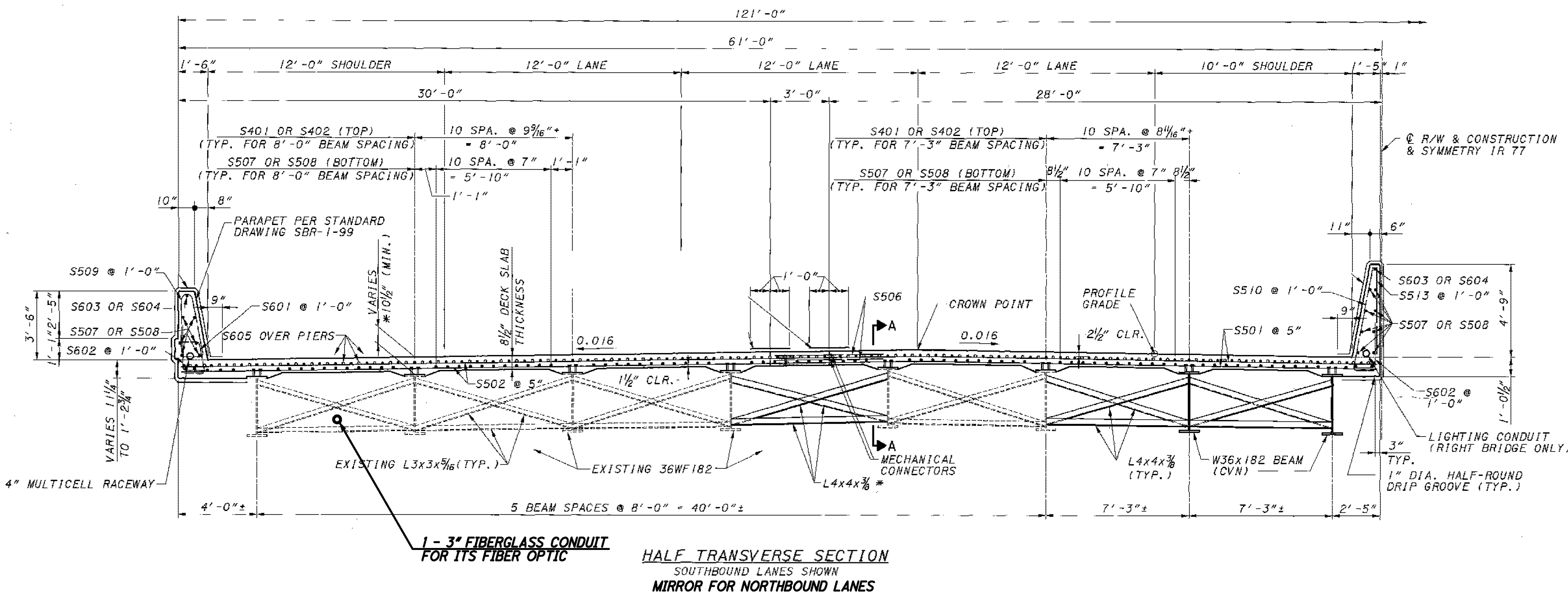
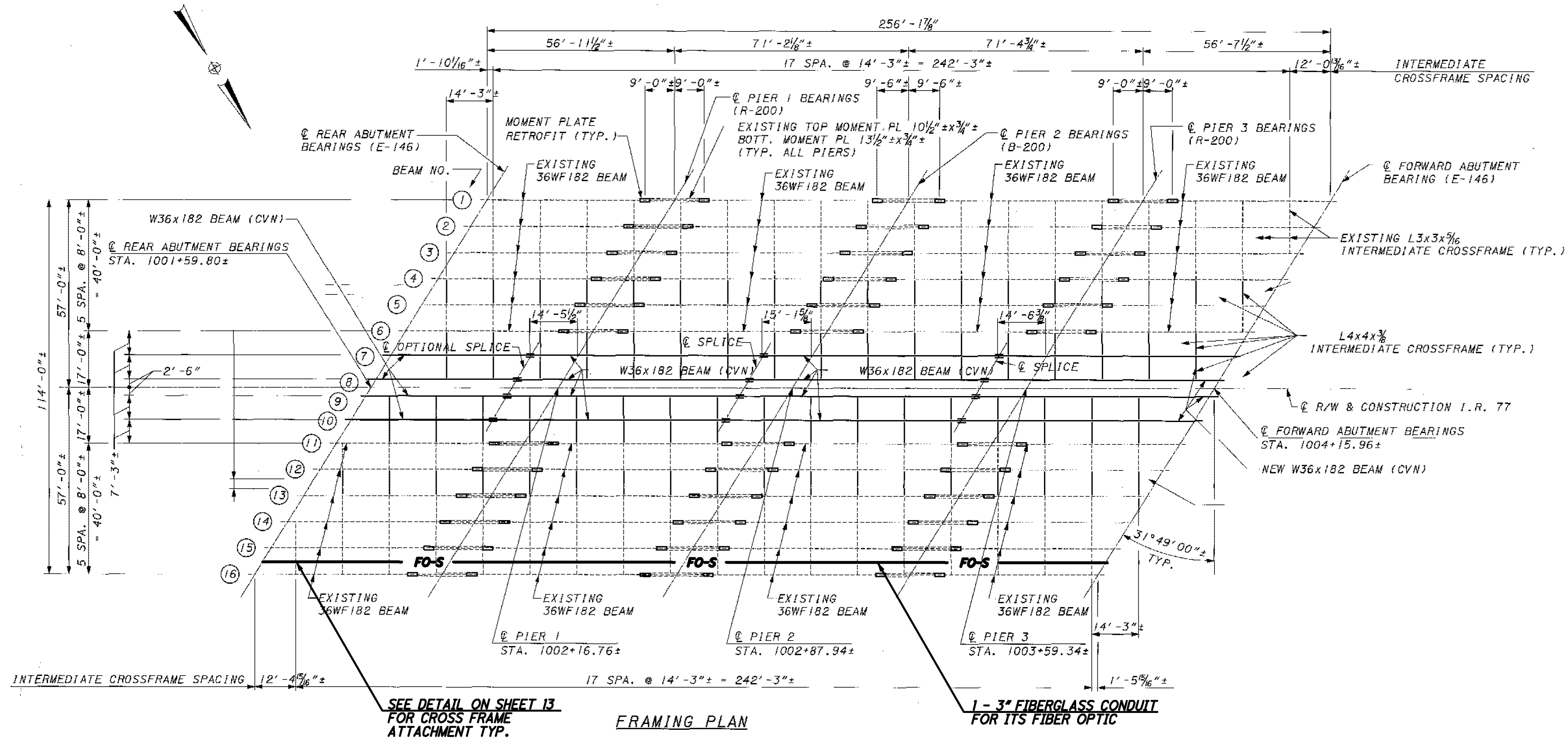
\* THESE SHEETS WERE TAKEN FROM ODOT RECORD PLANS AND ARE ONLY TO BE USED TO SHOW PROPOSED LOCATIONS OF CONDUIT, HANGERS AND EXPANSION COUPLINGS ON BRIDGE STRUCTURES AS NEEDED.

REFER TO SHEET 141 FOR PLAN SHEET

DESIGN AGENCY OHIO DEPARTMENT OF TRANSPORTATION	DATE	STRUCTURE FILE NUMBER
	REVIEWED	7703783
DESIGNED RAW	DRAWN	GM
	CHECKED	JDG
CONDUIT ATTACHED TO STRUCTURE DETAIL		
BRIDGE NO. SUM-77-1713		
INTERSTATE 77 OVER COPLEY ROAD		
STA-SUM ITS	PID No. 77482	
		248 390



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DESIGN AGENCY  
OHIO DEPARTMENT  
OF TRANSPORTATION

DATE  
REVIEWED  
DRAWN  
GM  
REVISION  
GM

STRUCTURE FILE NUMBER  
770939TR

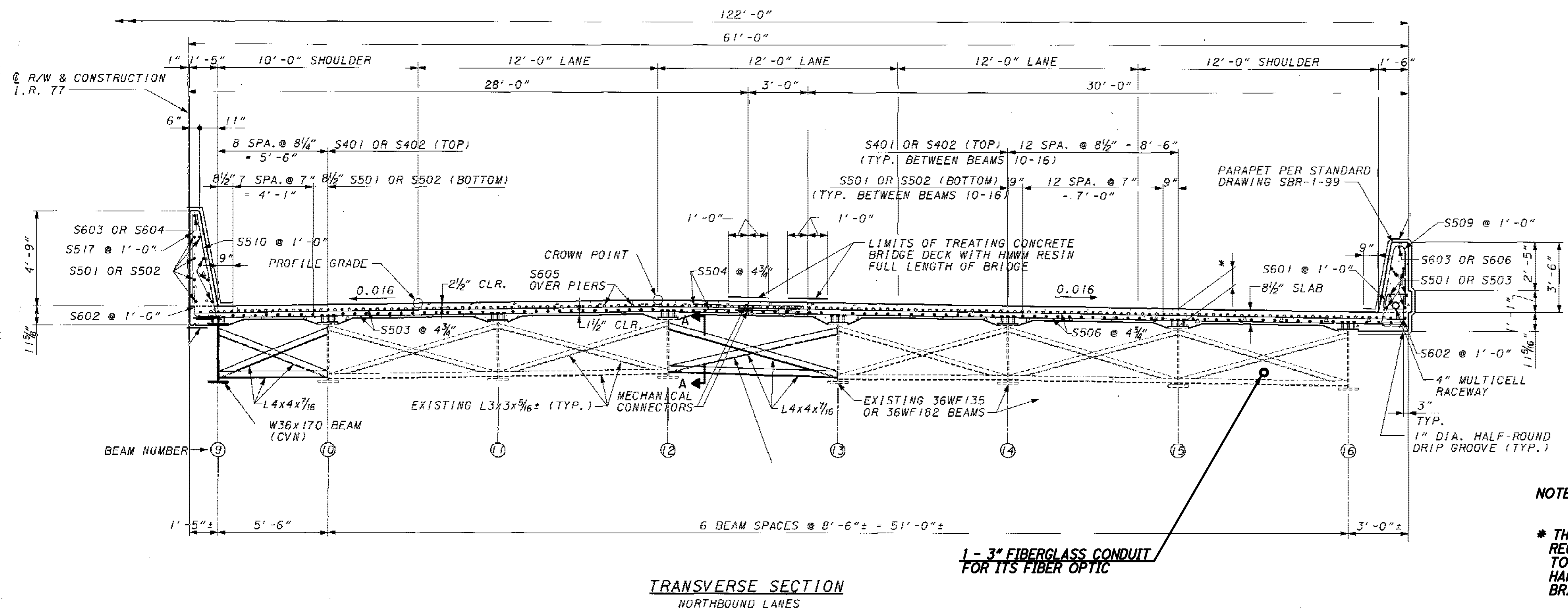
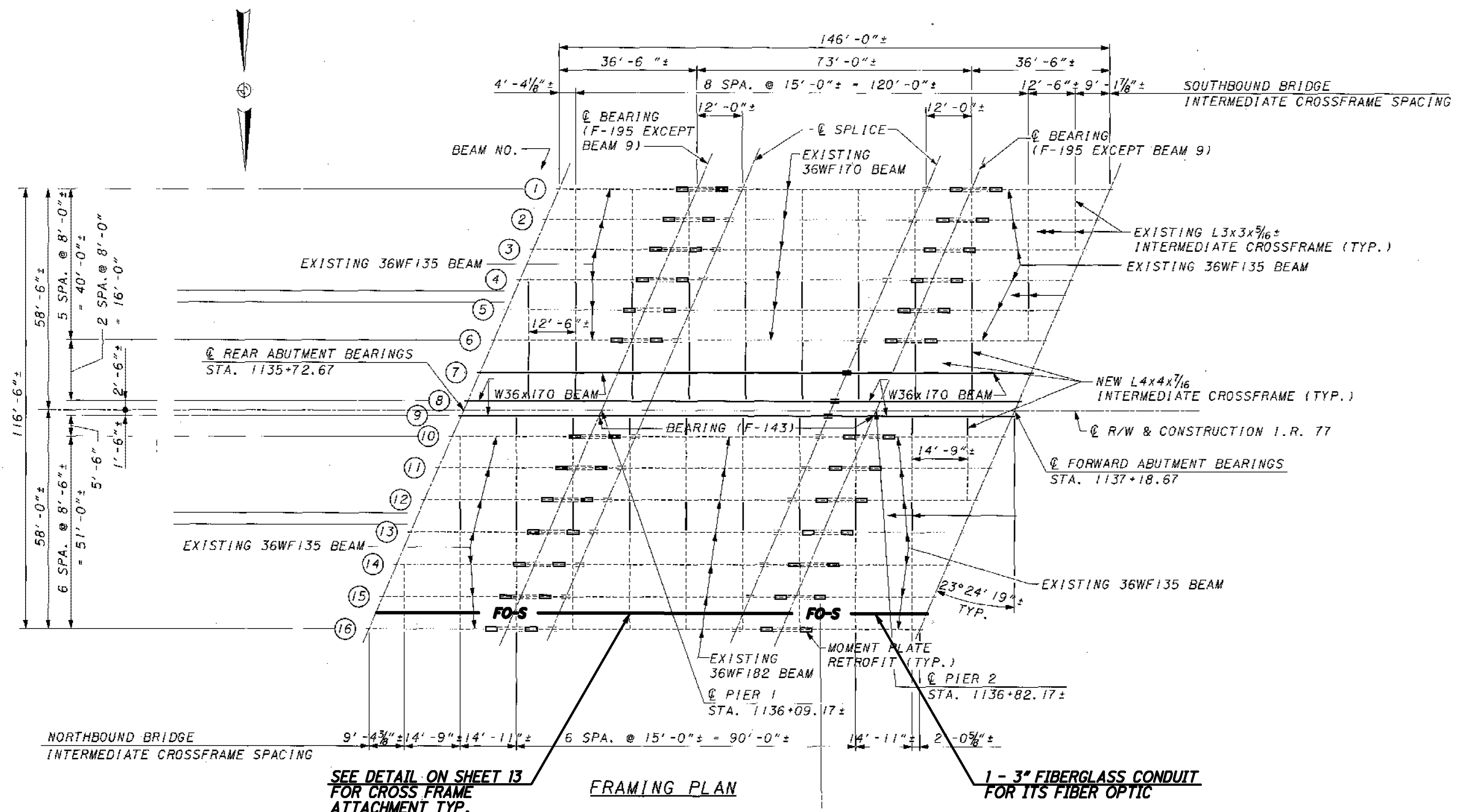
CONDUIT ATTACHED TO STRUCTURE DETAIL  
BRIDGE NO. SUM-77-1897  
INTERSTATE 77 OVER FRANK ROAD

STA-SUM ITS  
PID No. 77482

249  
390

NOTE: INCLUDE EXPANSION COUPLING FOR FO-S AT ALL EXPANSION JOINTS INDICATED.  
\* THESE SHEETS WERE TAKEN FROM ODOT RECORD PLANS AND ARE ONLY TO BE USED TO SHOW PROPOSED LOCATIONS OF CONDUIT, HANGERS AND EXPANSION COUPLINGS ON BRIDGE STRUCTURES AS NEEDED.  
REFER TO SHEET 144 FOR PLAN SHEET

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NOTE: INCLUDE EXPANSION COUPLING FOR FO-S AT ALL EXPANSION JOINTS INDICATED.

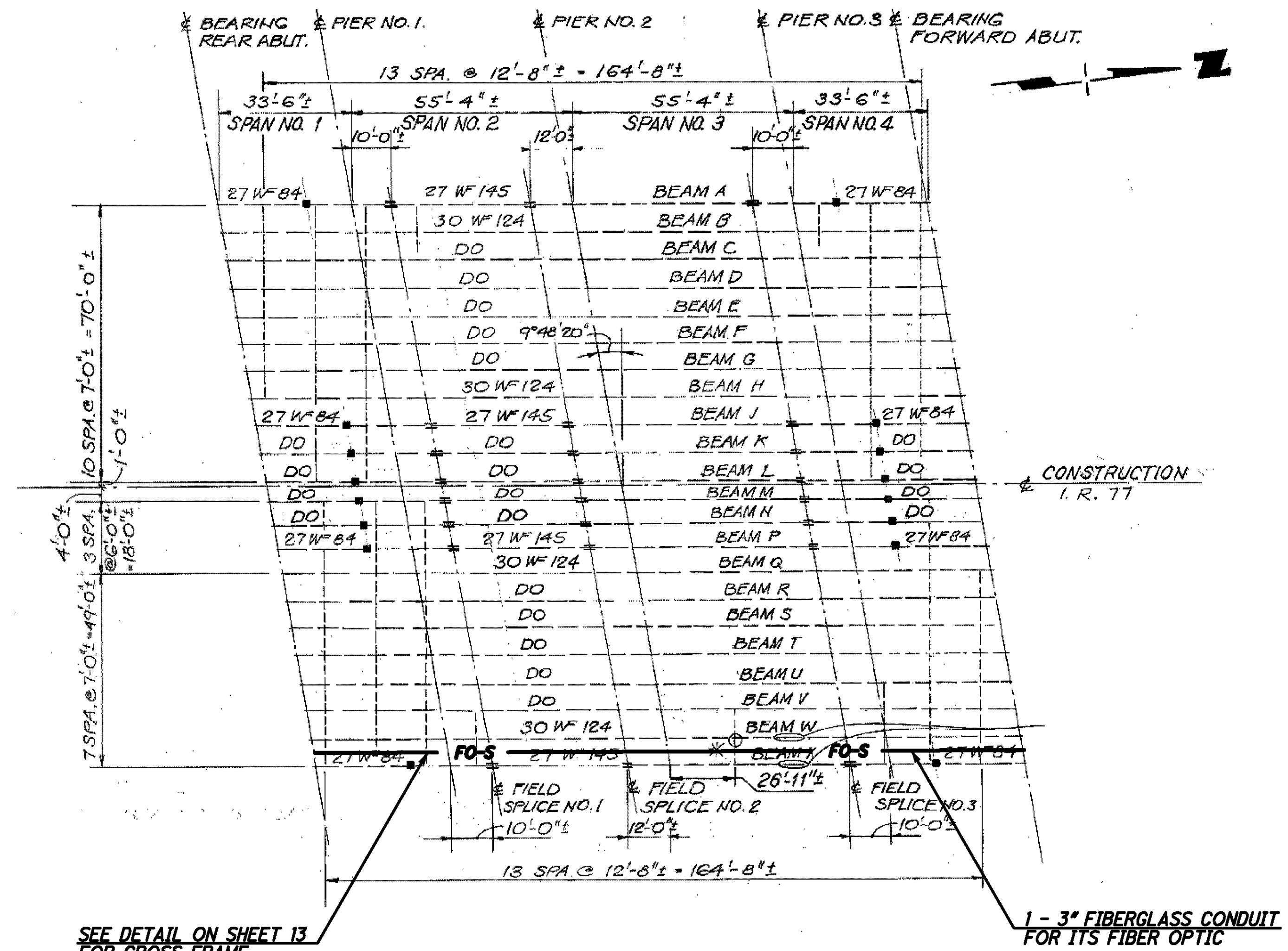
\* THESE SHEETS WERE TAKEN FROM ODOT RECORD PLANS AND ARE ONLY TO BE USED TO SHOW PROPOSED LOCATIONS OF CONDUIT, HANGERS AND EXPANSION COUPLINGS ON BRIDGE STRUCTURES AS NEEDED.

REFER TO SHEET 150 FOR PLAN SHEET

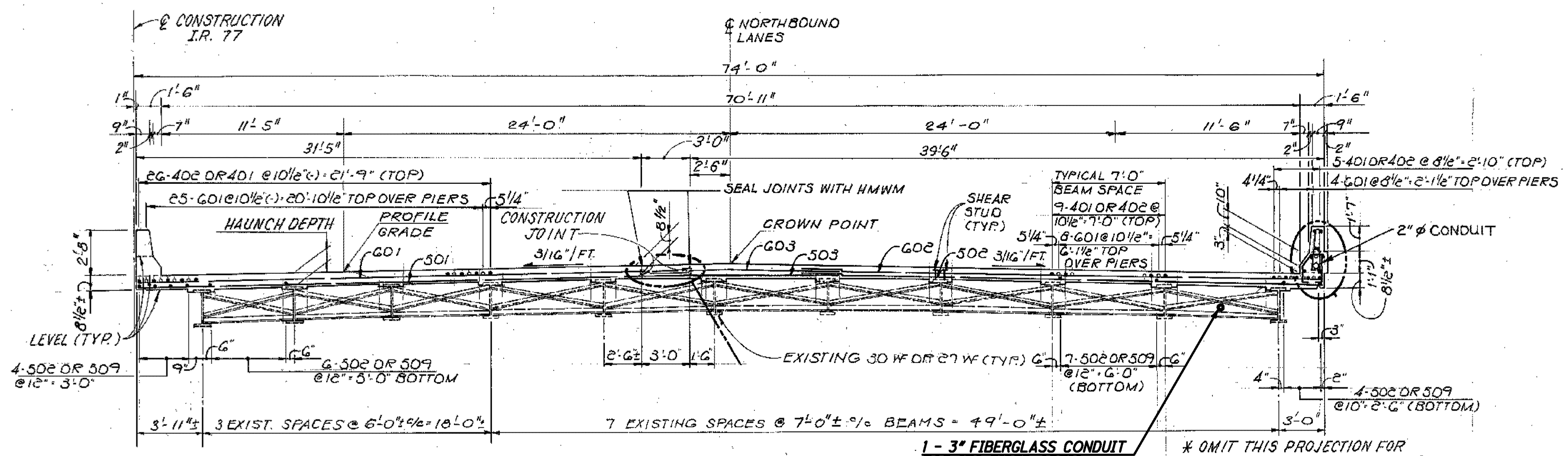
DESIGN AGENCY OHIO DEPARTMENT OF TRANSPORTATION	DATE	STRUCTURE FILE NUMBER
	REVIEWED	770401R
DRAWN GM	CHECKED JDG	REVISION
		REVISION
CONDUIT ATTACHED TO STRUCTURE DETAIL		
BRIDGE NO. SUM-77-2149		
INTERSTATE 77 OVER CLEVELAND-MASSILLON ROAD		
STA-SUM ITS	PID No. 77482	
250 390		



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**FRAMING PLAN**  
(ALL EXISTING CROSSFRAMES NOT SHOWN)



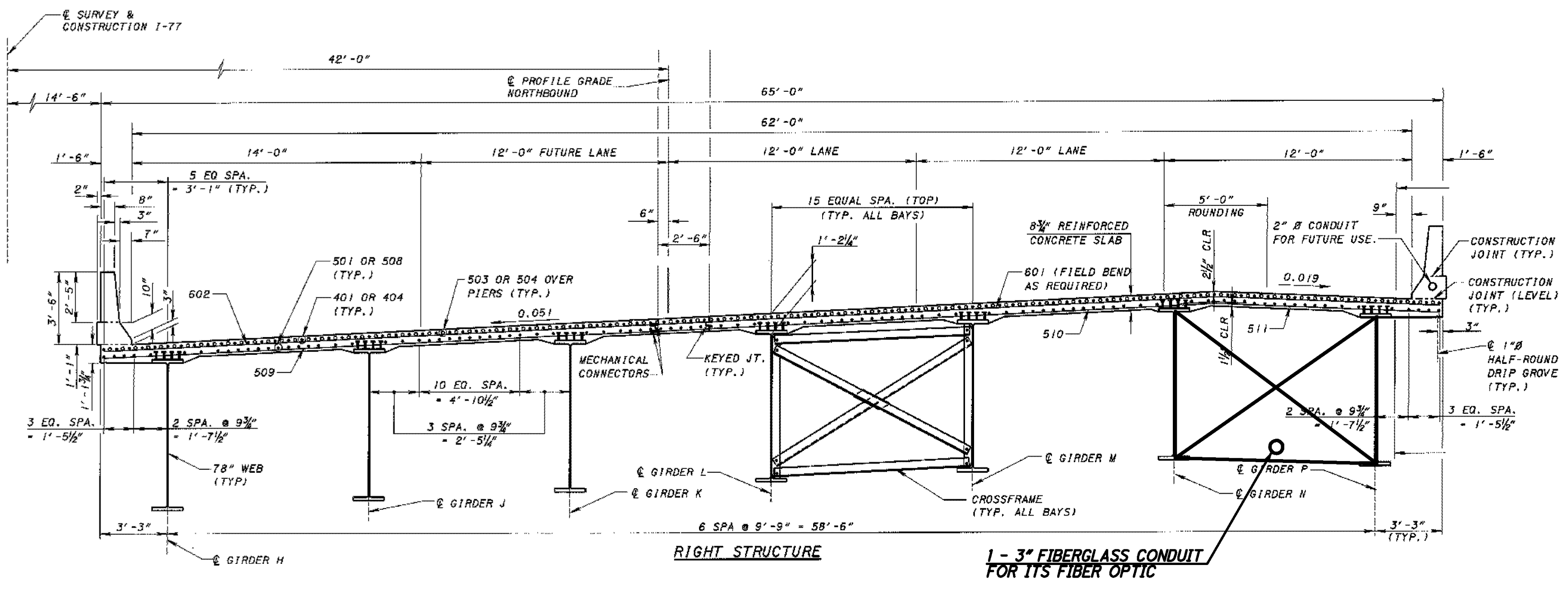
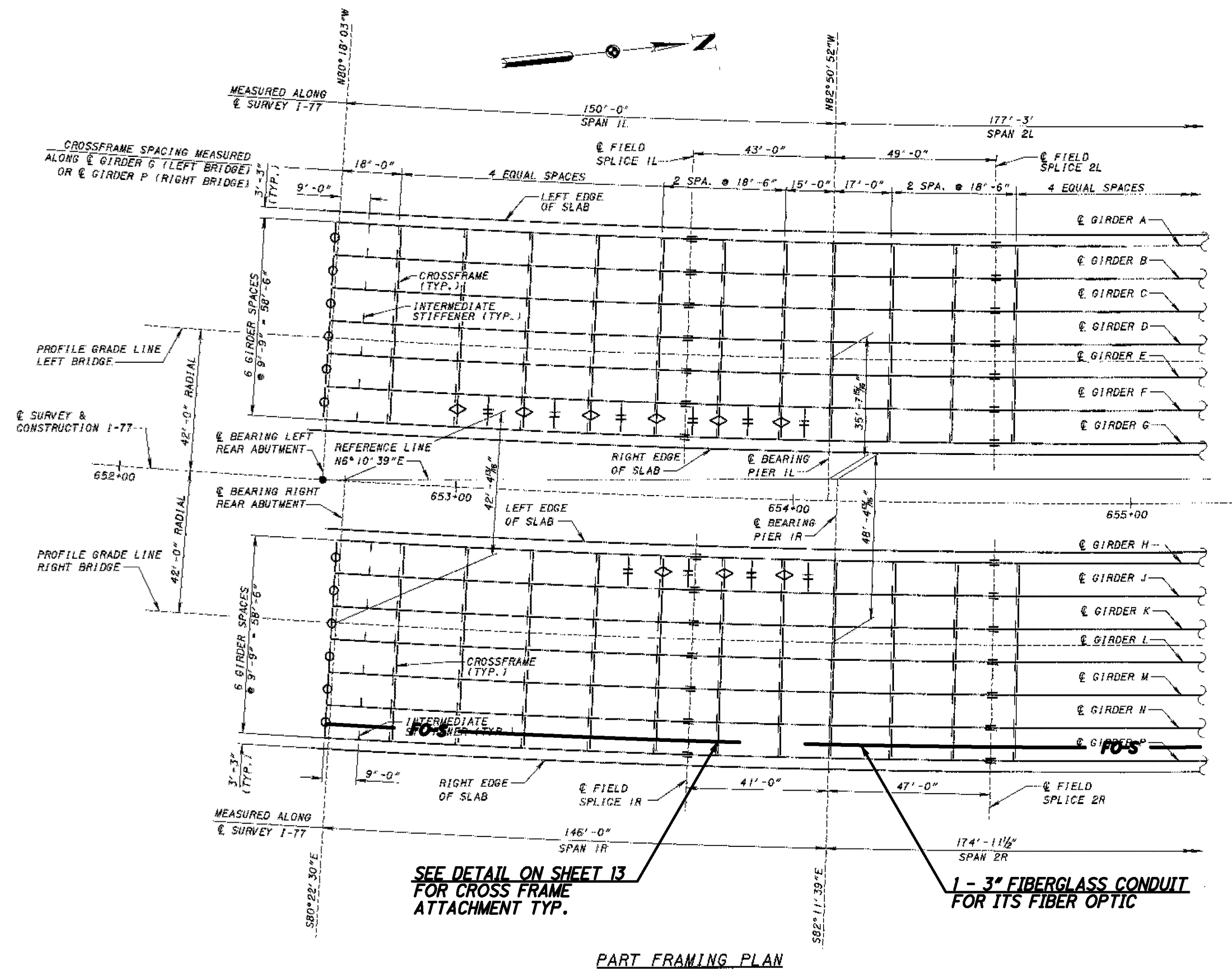
**TRANSVERSE SECTION (RIGHT)**

**NOTE:** INCLUDE EXPANSION COUPLING FOR FO-S AT ALL EXPANSION JOINTS INDICATED.

\* THESE SHEETS WERE TAKEN FROM ODOT RECORD PLANS AND ARE ONLY TO BE USED TO SHOW PROPOSED LOCATIONS OF CONDUIT, HANGERS AND EXPANSION COUPLINGS ON BRIDGE STRUCTURES AS NEEDED.

REFER TO SHEET 153 FOR PLAN SHEET

DESIGN AGENCY OHIO DEPARTMENT OF TRANSPORTATION	DATE	STRUCTURE FILE NUMBER
	REVIEWED	7704054
DRAWN GM	CHECKED JDC	DESIGNED RAW
		REVISIONS GM
CONDUIT ATTACHED TO STRUCTURE DETAIL		
BRIDGE NO. SUM-77-2321		
INTERSTATE 77 OVER STATE ROUTE 18		
STA-SUM ITS	PID No. 77482	
		251 390



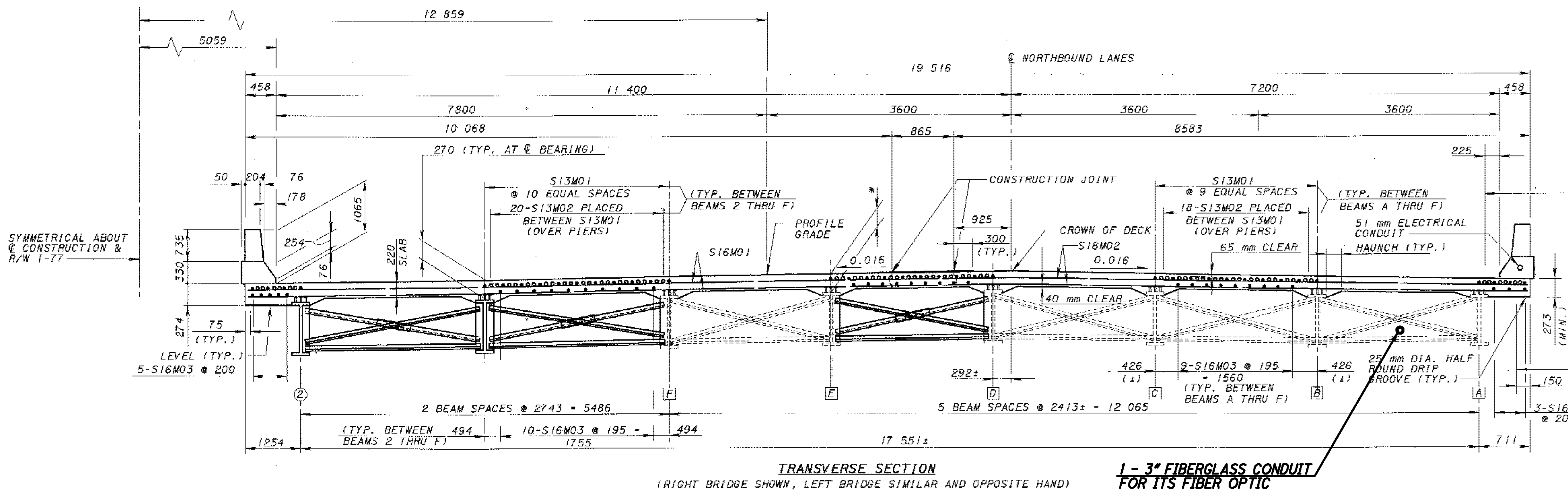
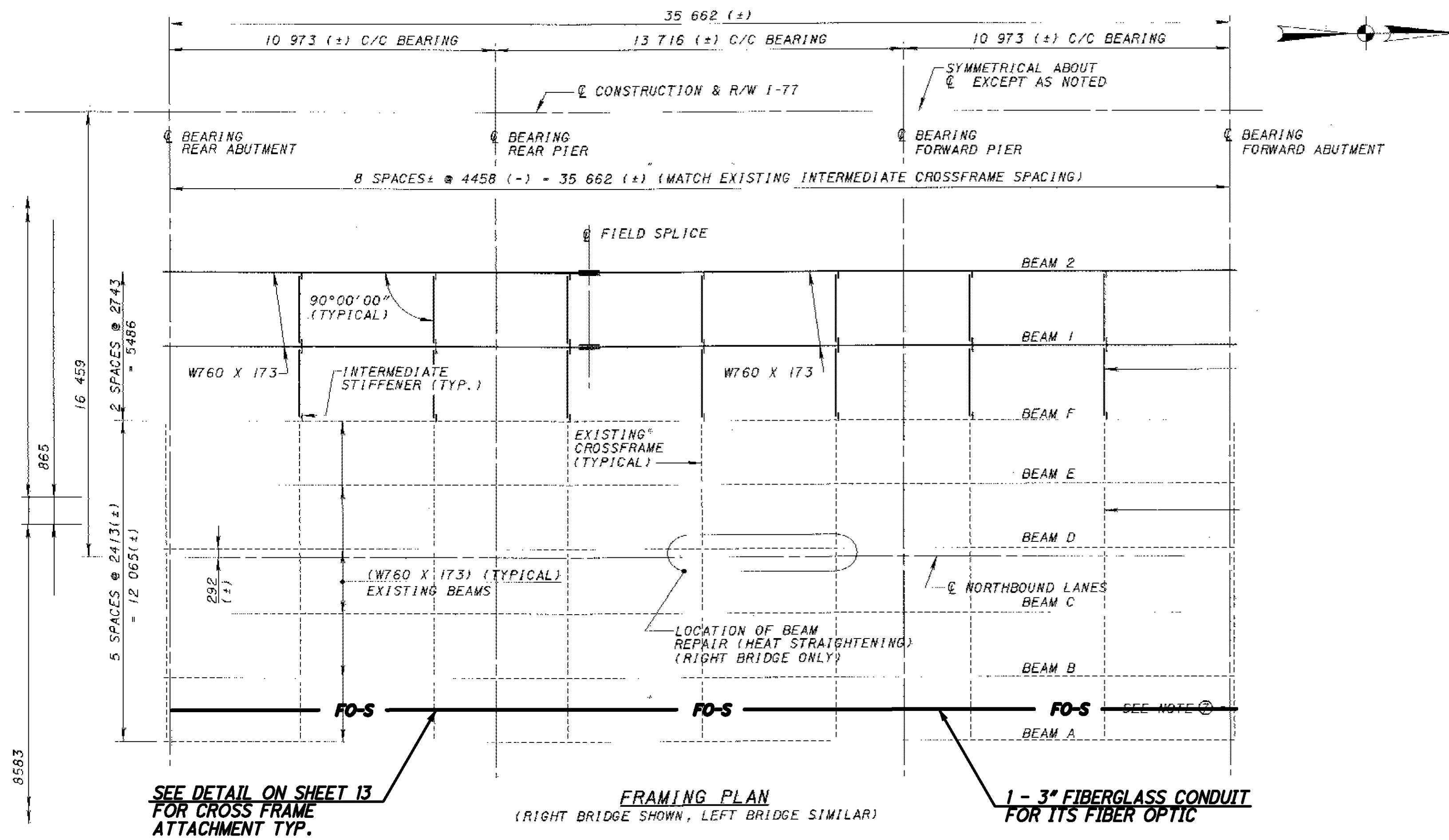
NOTE: INCLUDE EXPANSION COUPLING FOR FO-S AT ALL EXPANSION JOINTS INDICATED.

\* THESE SHEETS WERE TAKEN FROM ODOT RECORD PLANS AND ARE ONLY TO BE USED TO SHOW PROPOSED LOCATIONS OF CONDUIT, HANGERS AND EXPANSION COUPLINGS ON BRIDGE STRUCTURES AS NEEDED.

REFER TO SHEET 157 FOR PLAN SHEET

DESIGN AGENCY		OHIO DEPARTMENT OF TRANSPORTATION	
DATE	REVIEWED	STRUCTURE FILE NUMBER	7704194R
DRAWN	GM	REVISION	GM
DESIGNED	RAW	CHECKED	JDG
CONDUIT ATTACHED TO STRUCTURE DETAIL			
BRIDGE NO. SUM-77-2513			
INTERSTATE 77 OVER YELLOW CREEK			
STA-SUM ITS		PID No. 77482	
252		390	

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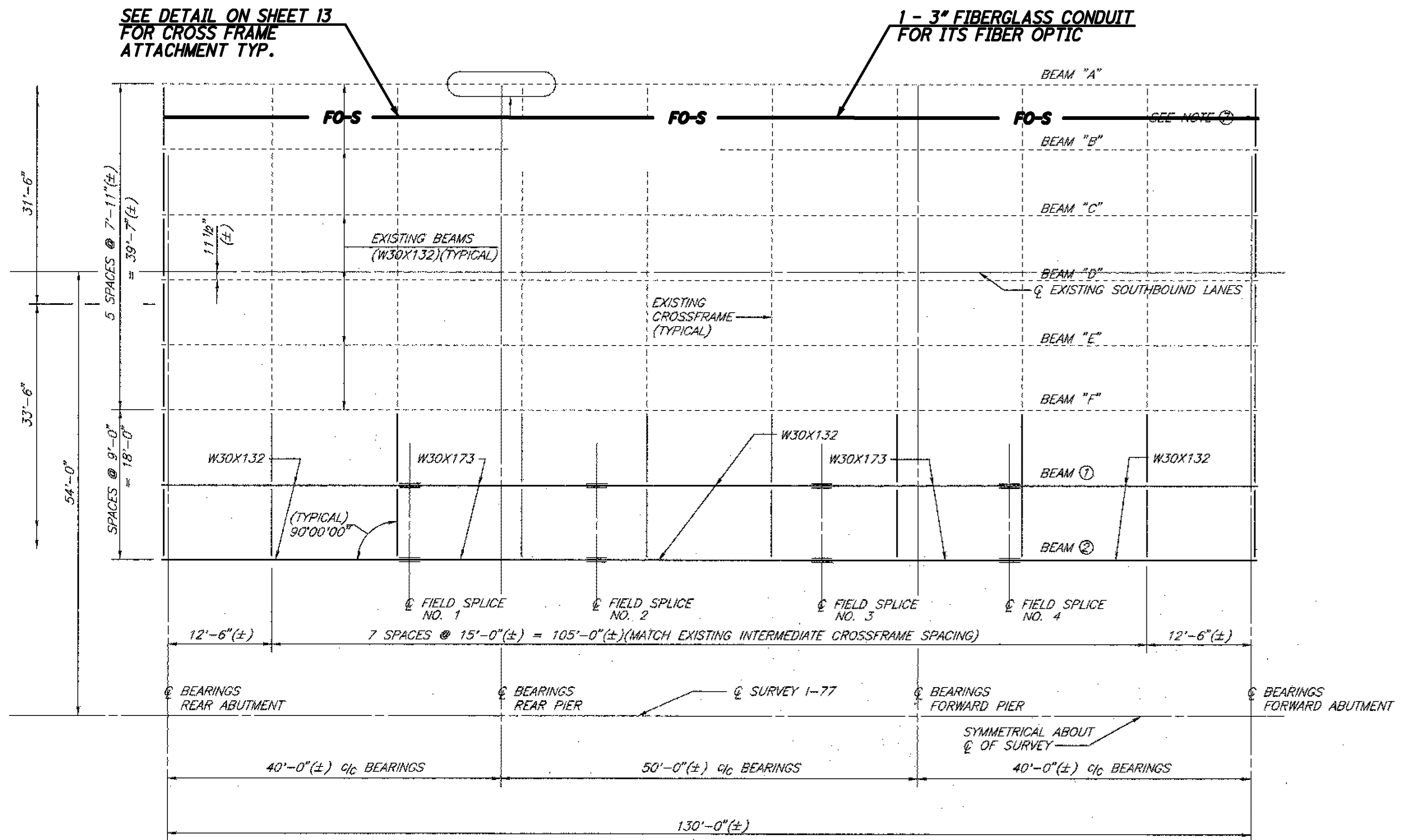
**NOTE:** INCLUDE EXPANSION COUPLING FOR FO-S AT ALL EXPANSION JOINTS INDICATED.

\* THESE SHEETS WERE TAKEN FROM ODOT RECORD PLANS AND ARE ONLY TO BE USED TO SHOW PROPOSED LOCATIONS OF CONDUIT, HANGERS AND EXPANSION COUPLINGS ON BRIDGE STRUCTURES AS NEEDED.

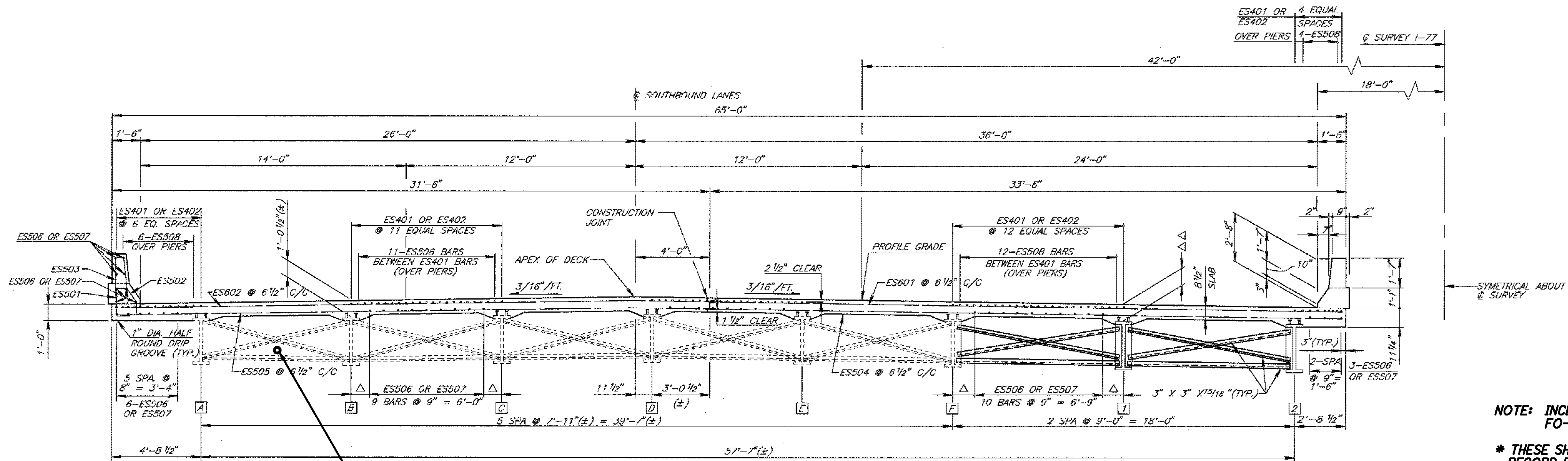
REFER TO SHEET 159 FOR PLAN SHEET

DESIGN AGENCY OHIO DEPARTMENT OF TRANSPORTATION	DATE	STRUCTURE FILE NUMBER
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DESIGNED	DRAWN	GM
RAW	GM	REVIS
CHECKED	JDG	GM
CONDUIT ATTACHED TO STRUCTURE DETAIL		
BRIDGE NO. SUM-77-2607		
INTERSTATE 77 OVER BATH ROAD		
STA-SUM ITS	PID No. 77482	
253 390		

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**FRAMING PLAN**  
LEFT BRIDGE SHOWN  
RIGHT BRIDGE SIMILAR  
MIRROR FOR NORTHBOUND LANES



**TRANSVERSE SECTION**  
(LEFT BRIDGE SHOWN, RIGHT BRIDGE 'OPPOSITE' HAND)  
MIRROR FOR NORTHBOUND LANES

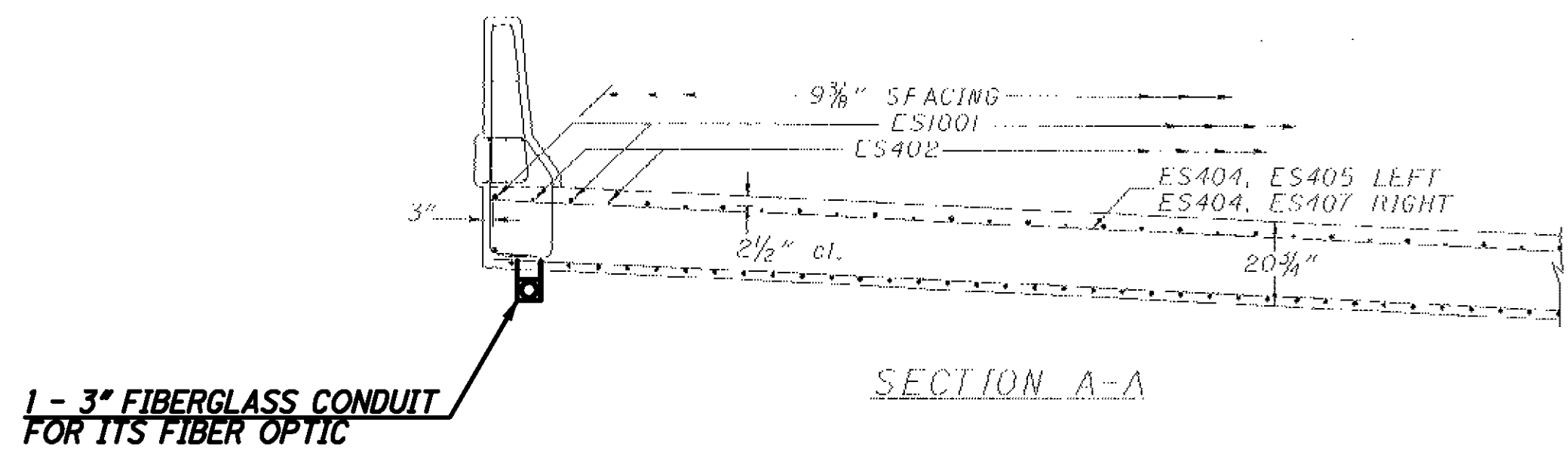
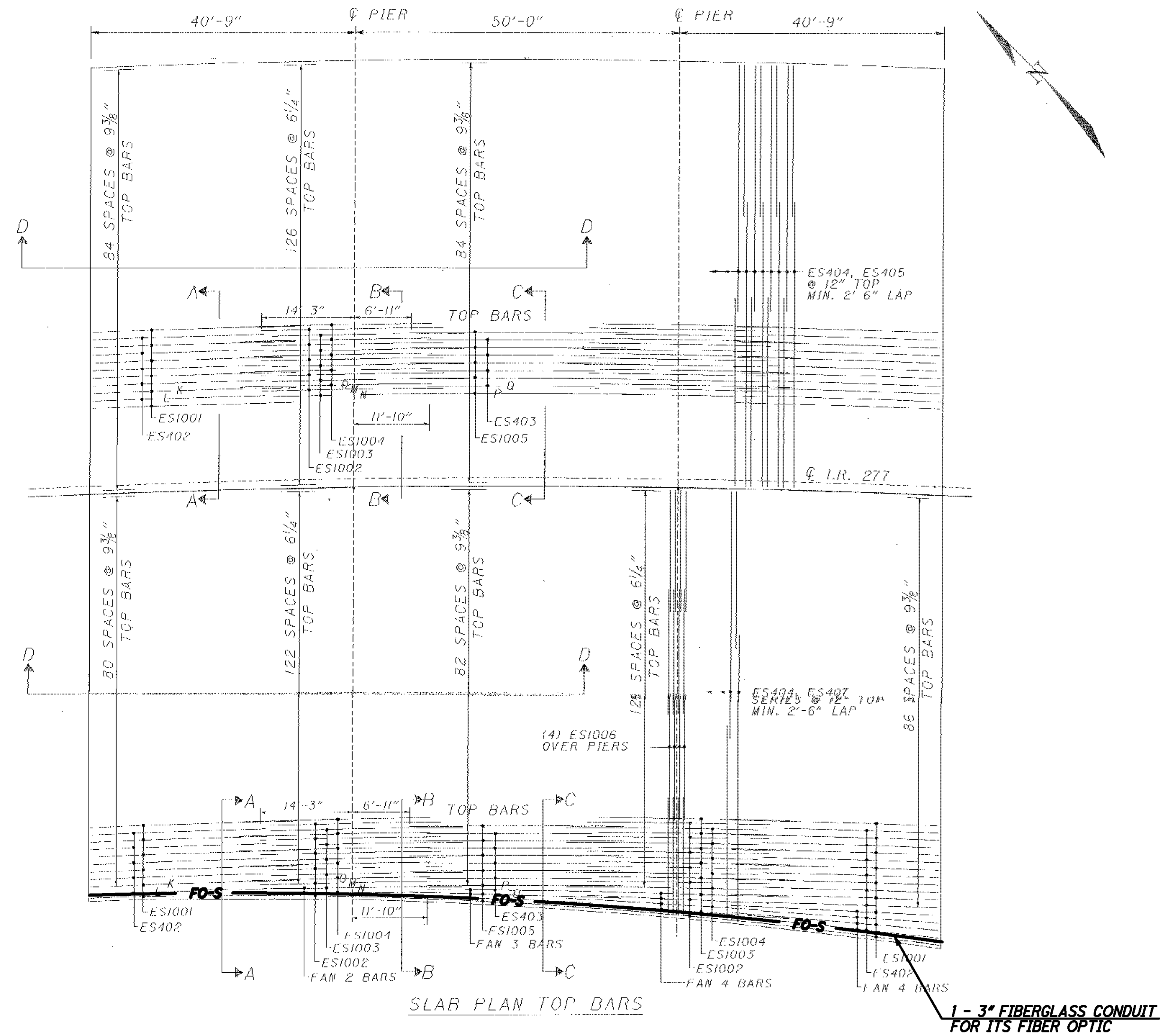
NOTE: INCLUDE EXPANSION COUPLING FOR FO-S AT ALL EXPANSION JOINTS INDICATED.

\* THESE SHEETS WERE TAKEN FROM ODOT RECORD PLANS AND ARE ONLY TO BE USED TO SHOW PROPOSED LOCATIONS OF CONDUIT, HANGERS AND EXPANSION COUPLINGS ON BRIDGE STRUCTURES AS NEEDED.

REFER TO SHEET 161 FOR PLAN SHEET

DESIGNED RAW CHECKED JDC	DRAWN GM REVISED GM	REVIEWED	DATE	DESIGN AGENCY
		STRUCTURE FILE NUMBER 7704380R		OHIO DEPARTMENT OF TRANSPORTATION
CONDUIT ATTACHED TO STRUCTURE DETAIL				
BRIDGE NO. SUM-77-2744				
INTERSTATE 77 OVER IRA ROAD				
STA-SUM ITS	PID No. 77482			
		254 390		





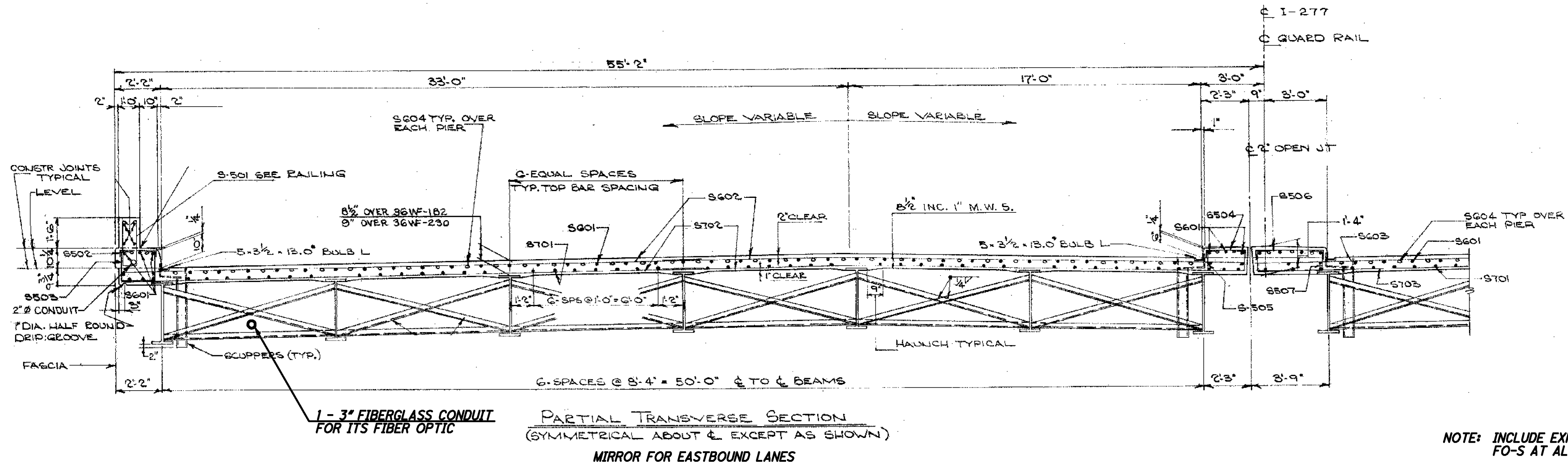
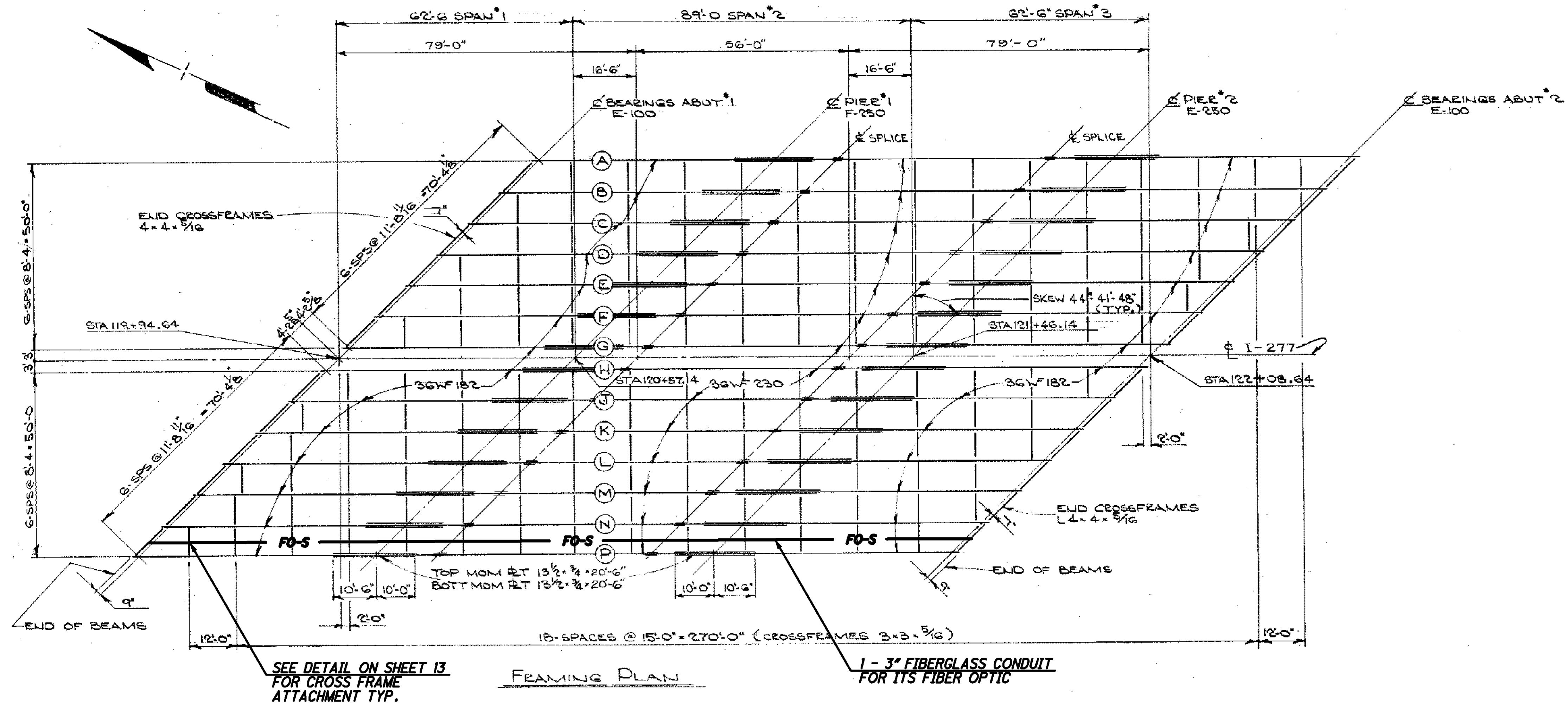
NOTE: INCLUDE EXPANSION COUPLING FOR FO-S AT ALL EXPANSION JOINTS INDICATED.

\* THESE SHEETS WERE TAKEN FROM ODOT RECORD PLANS AND ARE ONLY TO BE USED TO SHOW PROPOSED LOCATIONS OF CONDUIT, HANGERS AND EXPANSION COUPLINGS ON BRIDGE STRUCTURES AS NEEDED.

REFER TO SHEET 166 FOR PLAN SHEET

STA-SUM ITS PID No. 77482	CONDUIT ATTACHED TO STRUCTURE DETAIL BRIDGE NO. SUM-277-0092 INTERSTATE 277 OVER AKRON AND BARBERTON BELT RAILROAD		DESIGNED RAW CHECKED JDG	DRAWN GM REVISED GM	REVIEWED STRUCTURE FILE NUMBER 7709579	DATE	DESIGN AGENCY OHIO DEPARTMENT OF TRANSPORTATION





CONDUIT ATTACHED TO STRUCTURE DETAIL  
BRIDGE NO. SUM-277-0115  
INTERSTATE 277 OVER WATERLOO ROAD

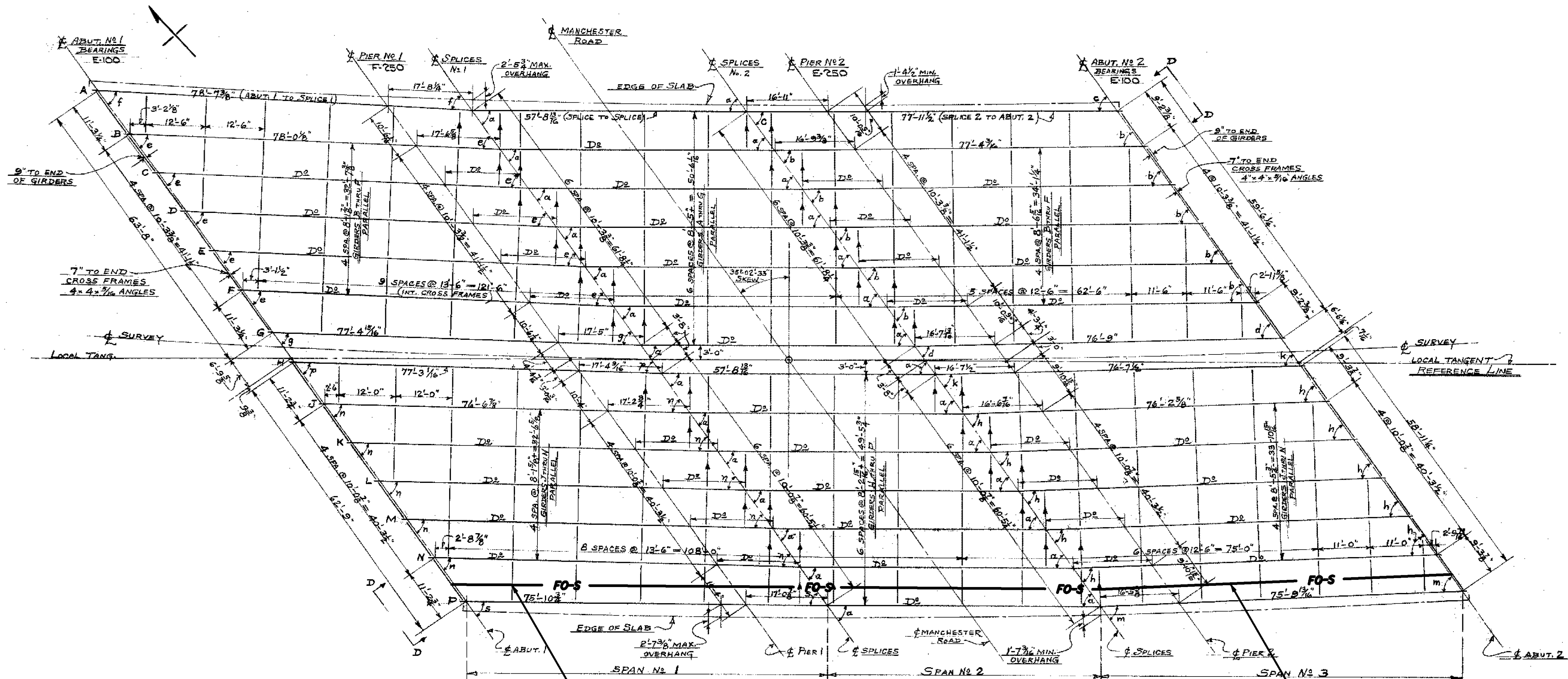
DESIGN AGENCY  
OHIO DEPARTMENT  
OF TRANSPORTATION

DATE  
REVIEWED  
STRUCTURE FILE NUMBER  
7709609

DRAWN  
GM  
REVISIONS  
GM

DESIGNED  
RAW  
CHECKED  
JDC

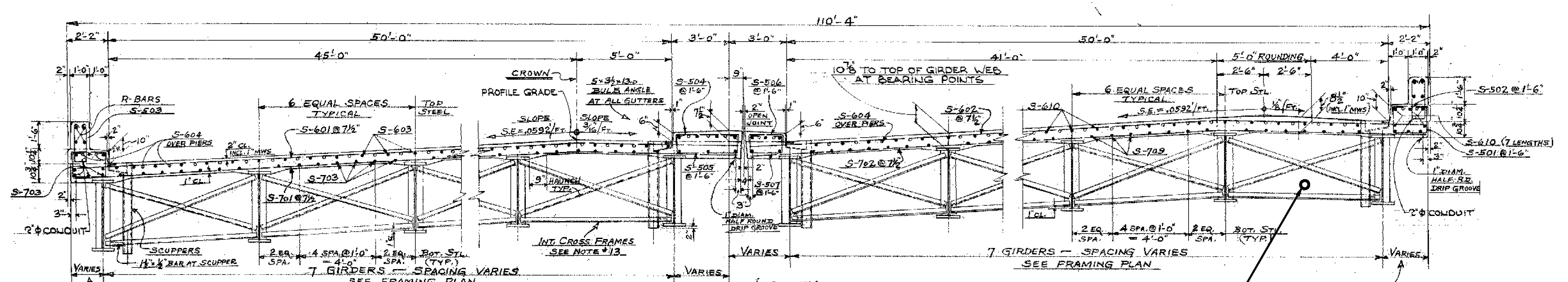
STA-SUM ITS  
PID No. 77482



SEE DETAIL ON SHEET 13  
FOR CROSS FRAME  
ATTACHMENT TYP.

FRAMING PLAN

1 - 3" FIBERGLASS CONDUIT  
FOR ITS FIBER OPTIC



TRANSVERSE SECTION

1 - 3" FIBERGLASS CONDUIT  
FOR ITS FIBER OPTIC

NOTE: INCLUDE EXPANSION COUPLING FOR  
FO-S AT ALL EXPANSION JOINTS INDICATED.

\* THESE SHEETS WERE TAKEN FROM ODOT  
RECORD PLANS AND ARE ONLY TO BE USED  
TO SHOW PROPOSED LOCATIONS OF CONDUIT,  
HANGERS AND EXPANSION COUPLINGS ON  
BRIDGE STRUCTURES AS NEEDED.

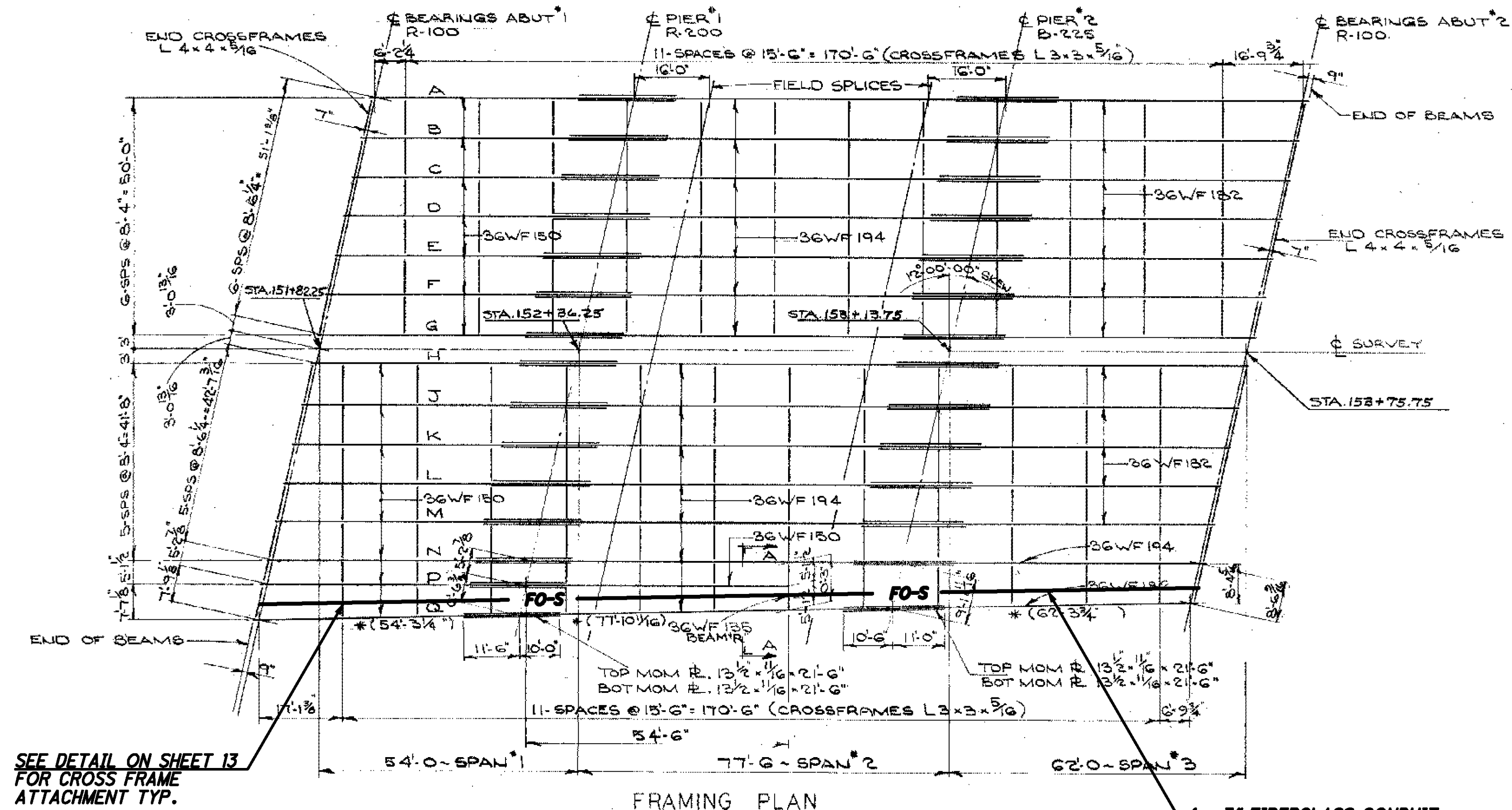
REFER TO SHEET 167 FOR PLAN SHEET

CONDUIT ATTACHED TO STRUCTURE DETAIL  
BRIDGE NO. SUM-277-0134  
INTERSTATE 277 OVER MANCHESTER ROAD

STA-SUM ITS  
PID No. 77482

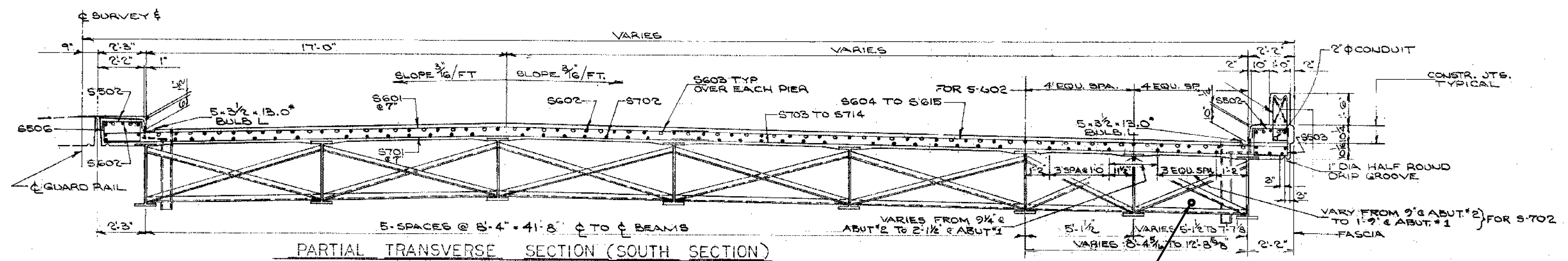
DESIGN AGENCY  
OHIO DEPARTMENT  
OF TRANSPORTATION

DESIGNED	RAW	CHECKED	JDG
DRAWN	GM	REVISION	GM
REVIEWED	DATE	STRUCTURE FILE NUMBER	7709633



SEE DETAIL ON SHEET 13 FOR CROSS FRAME ATTACHMENT TYP.

1 - 3" FIBERGLASS CONDUIT FOR ITS FIBER OPTIC



1 - 3" FIBERGLASS CONDUIT FOR ITS FIBER OPTIC

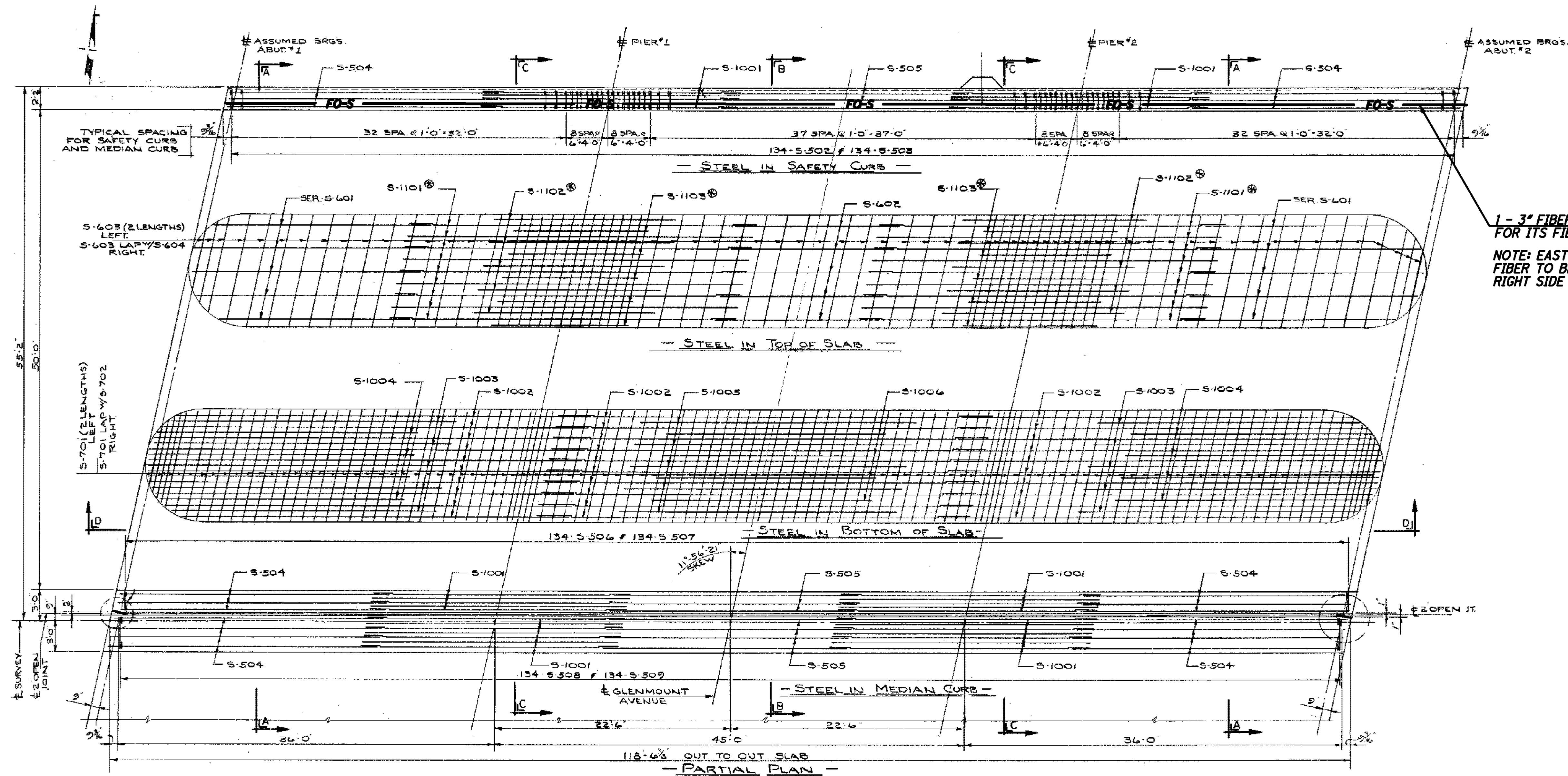
NOTE: INCLUDE EXPANSION COUPLING FOR FO-S AT ALL EXPANSION JOINTS INDICATED.

\* THESE SHEETS WERE TAKEN FROM ODOT RECORD PLANS AND ARE ONLY TO BE USED TO SHOW PROPOSED LOCATIONS OF CONDUIT, HANGERS AND EXPANSION COUPLINGS ON BRIDGE STRUCTURES AS NEEDED.

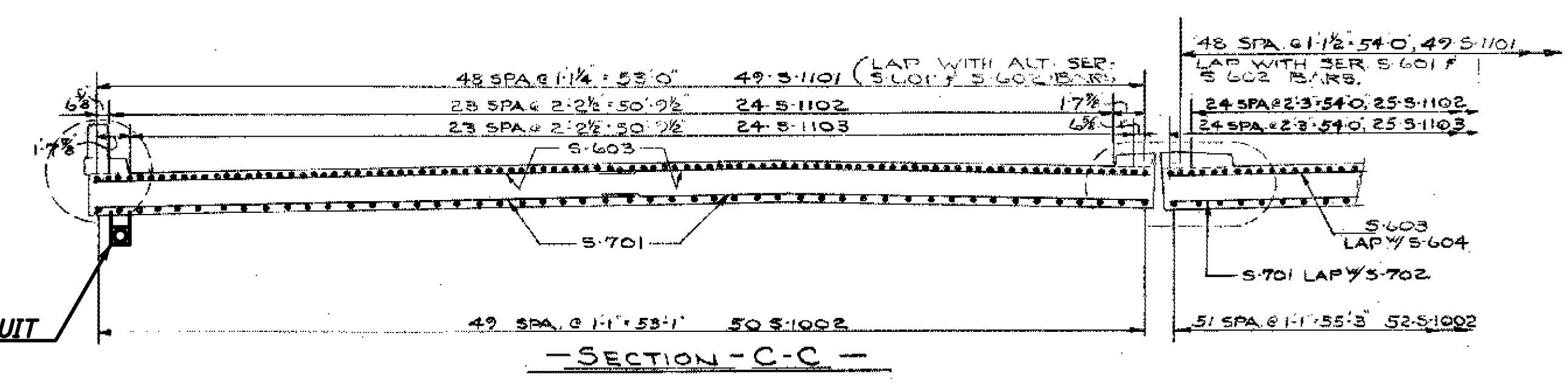
REFER TO SHEET 168 FOR PLAN SHEET

STA - SUM ITS PID No. 77482	CONDUIT ATTACHED TO STRUCTURE DETAIL BRIDGE NO. SUM-277-0175 INTERSTATE 277 OVER THE OHIO CANAL		DESIGN AGENCY OHIO DEPARTMENT OF TRANSPORTATION
	DESIGNED RAW CHECKED JDG	DRAWN GM REVISED GM	REVIEWED STRUCTURE FILE NUMBER 7709692





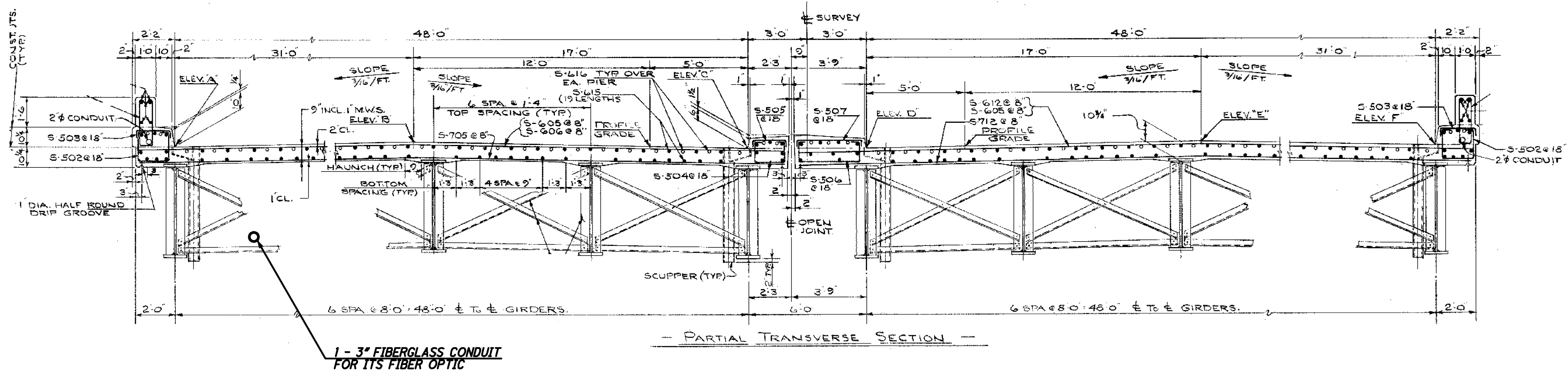
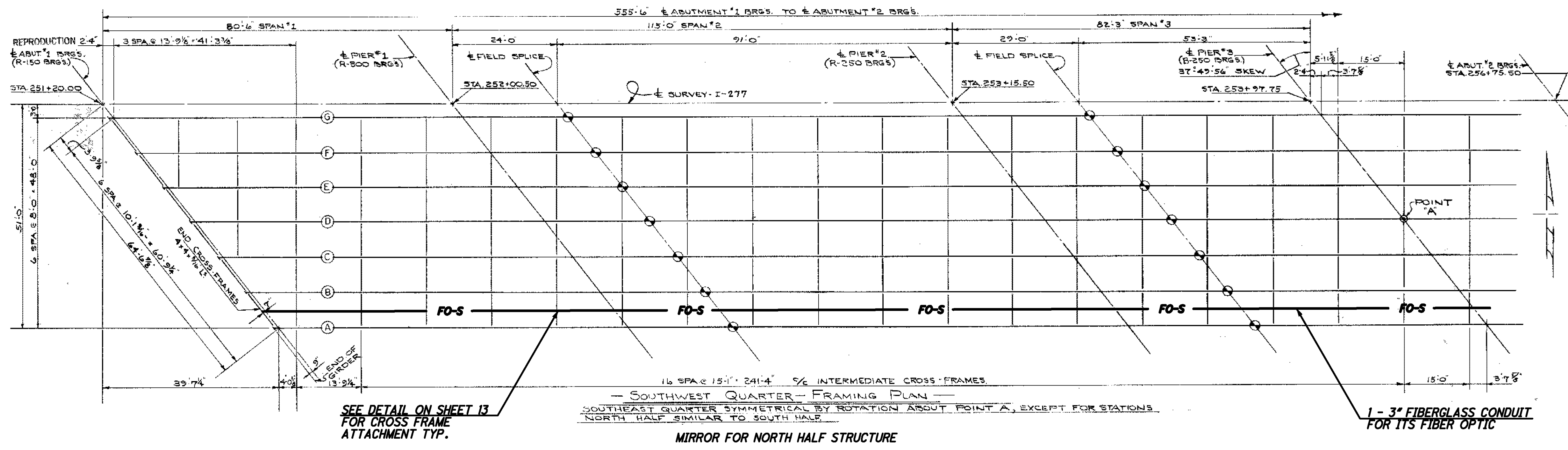
1 - 3" FIBERGLASS CONDUIT FOR ITS FIBER OPTIC  
 NOTE: EASTBOUND BRIDGE PLANS NOT PROVIDED, FIBER TO BE INSTALLED ON THE RIGHT SIDE OF EASTBOUND BRIDGE



1 - 3" FIBERGLASS CONDUIT FOR ITS FIBER OPTIC  
 NOTE: EASTBOUND BRIDGE PLANS NOT PROVIDED, FIBER TO BE INSTALLED ON THE RIGHT SIDE OF EASTBOUND BRIDGE

NOTE: INCLUDE EXPANSION COUPLING FOR FO-S AT ALL EXPANSION JOINTS INDICATED.  
 \* THESE SHEETS WERE TAKEN FROM ODOT RECORD PLANS AND ARE ONLY TO BE USED TO SHOW PROPOSED LOCATIONS OF CONDUIT, HANGERS AND EXPANSION COUPLINGS ON BRIDGE STRUCTURES AS NEEDED.  
 REFER TO SHEET 170 FOR PLAN SHEET

DESIGN AGENCY OHIO DEPARTMENT OF TRANSPORTATION	
DATE	STRUCTURE FILE NUMBER
REVIEWED	7709757
DRAWN	REVISIONS
GM	GM
DESIGNED	CHECKED
RAW	JDG
CONDUIT ATTACHED TO STRUCTURE DETAIL	
BRIDGE NO. SUM-277-0305	
INTERSTATE 277 OVER GLENMOUNT AVENUE	
STA - SUM ITS	PID No. 77482
259 390	



NOTE: INCLUDE EXPANSION COUPLING FOR FO-S AT ALL EXPANSION JOINTS INDICATED.

\* THESE SHEETS WERE TAKEN FROM ODOT RECORD PLANS AND ARE ONLY TO BE USED TO SHOW PROPOSED LOCATIONS OF CONDUIT, HANGERS AND EXPANSION COUPLINGS ON BRIDGE STRUCTURES AS NEEDED.

REFER TO SHEET 133 FOR PLAN SHEET

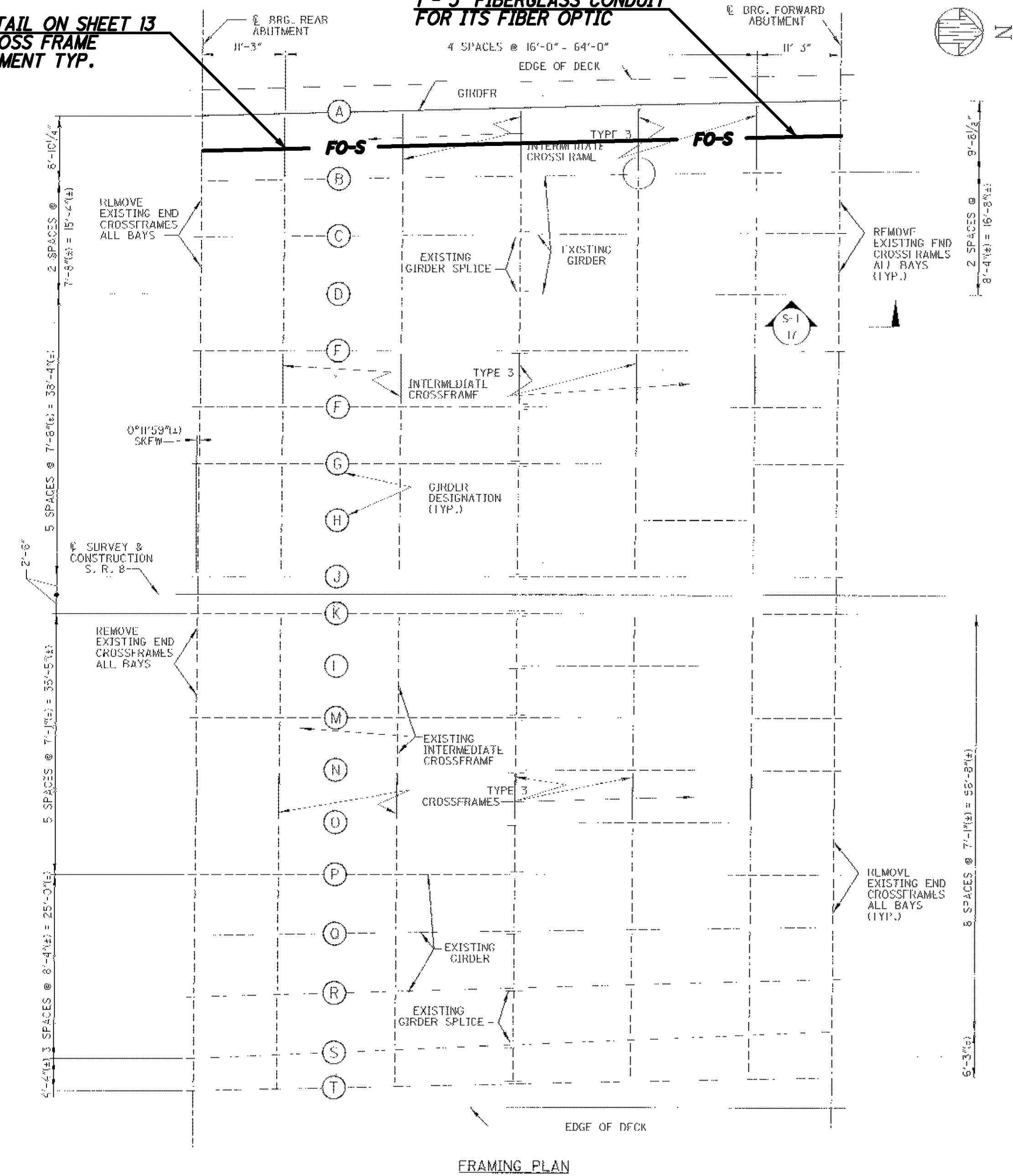
DESIGN AGENCY		OHIO DEPARTMENT OF TRANSPORTATION	
DATE	REVIEWED	STRUCTURE FILE NUMBER	7709811
DRAWN	GM	CHECKED	JDG
DESIGNED	RAW	REVISIONS	GM
CONDUIT ATTACHED TO STRUCTURE DETAIL			
BRIDGE NO. SUM-277-0374			
INTERSTATE 277 OVER INTERSTATE 77			
STA-SUM ITS		PID No. 77482	
260		390	





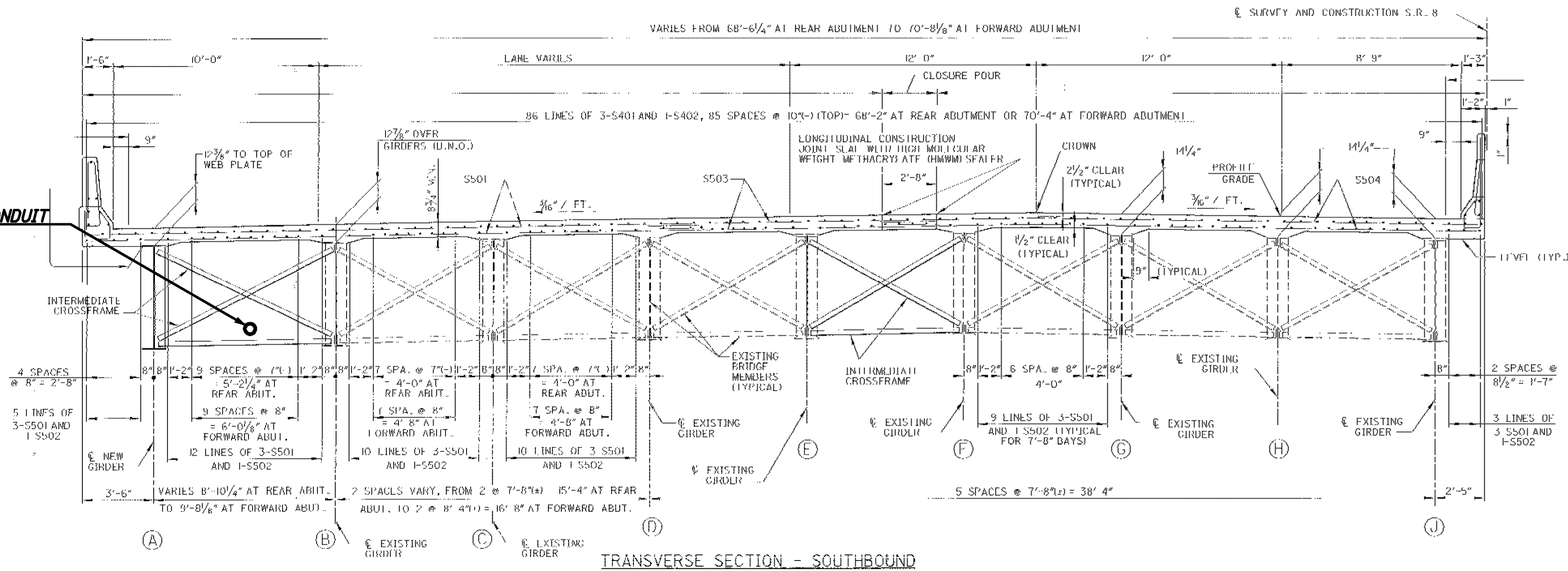
SEE DETAIL ON SHEET 13 FOR CROSS FRAME ATTACHMENT TYP.

1 - 3" FIBERGLASS CONDUIT FOR ITS FIBER OPTIC



FRAMING PLAN

1 - 3" FIBERGLASS CONDUIT FOR ITS FIBER OPTIC



TRANSVERSE SECTION - SOUTHBOUND

NOTE: INCLUDE EXPANSION COUPLING FOR FO-S AT ALL EXPANSION JOINTS INDICATED.

\* THESE SHEETS WERE TAKEN FROM ODOT RECORD PLANS AND ARE ONLY TO BE USED TO SHOW PROPOSED LOCATIONS OF CONDUIT, HANGERS AND EXPANSION COUPLINGS ON BRIDGE STRUCTURES AS NEEDED.

REFER TO SHEET 173 FOR PLAN SHEET

CONDUIT ATTACHED TO STRUCTURE DETAIL

BRIDGE NO. SUM-8-0086

STATE ROUTE 8 OVER EXCHANGE STREET

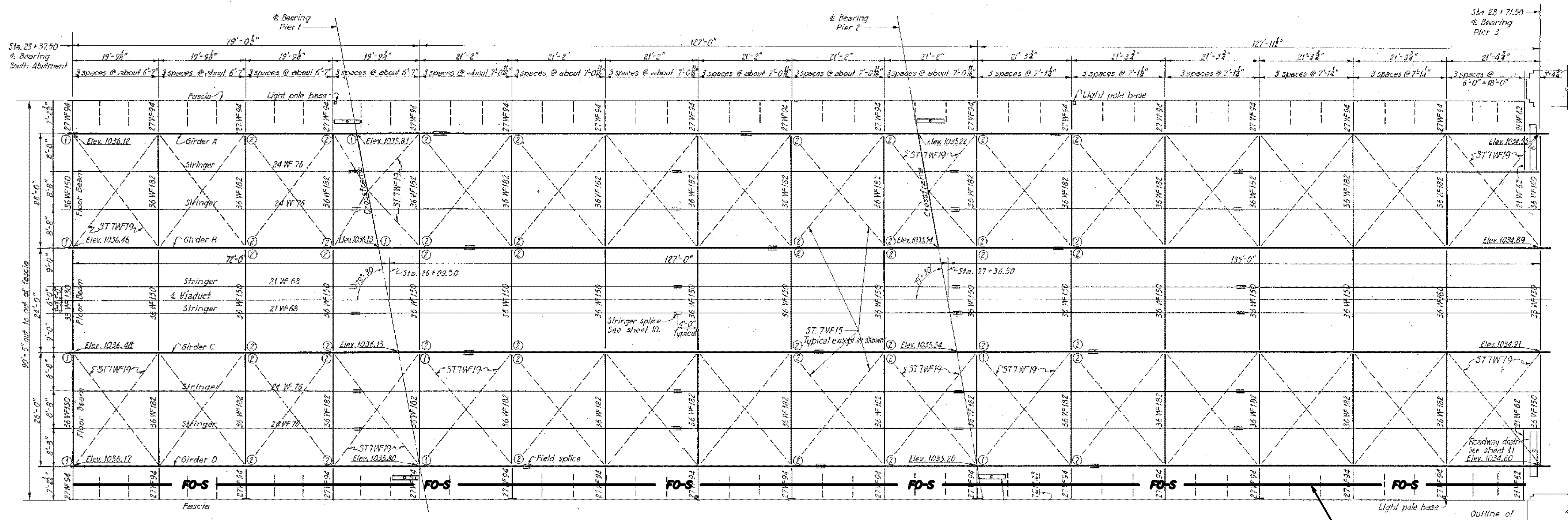
STA-SUM ITS  
PID No. 77482

DESIGN AGENCY  
OHIO DEPARTMENT  
OF TRANSPORTATION

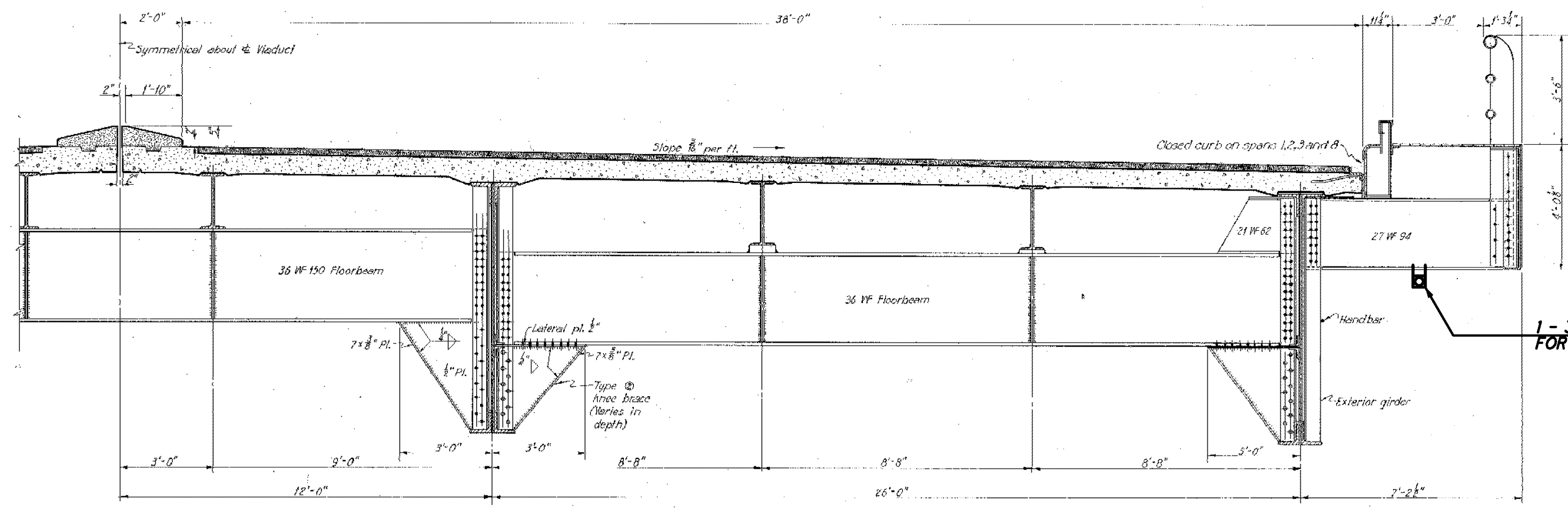
DATE  
REVIEWED  
DRAWN  
GM  
REVIS

DESIGNED  
RAW  
CHECKED  
JDC

STRUCTURE FILE NUMBER  
7700156



FRAMING PLAN - SPANS 1, 2 AND 3



HALF CROSS SECTION AT INTERMEDIATE FLOORBEAMS WITH KNEEBRACES

1 - 3" FIBERGLASS CONDUIT FOR ITS FIBER OPTIC

1 - 3" FIBERGLASS CONDUIT FOR ITS FIBER OPTIC

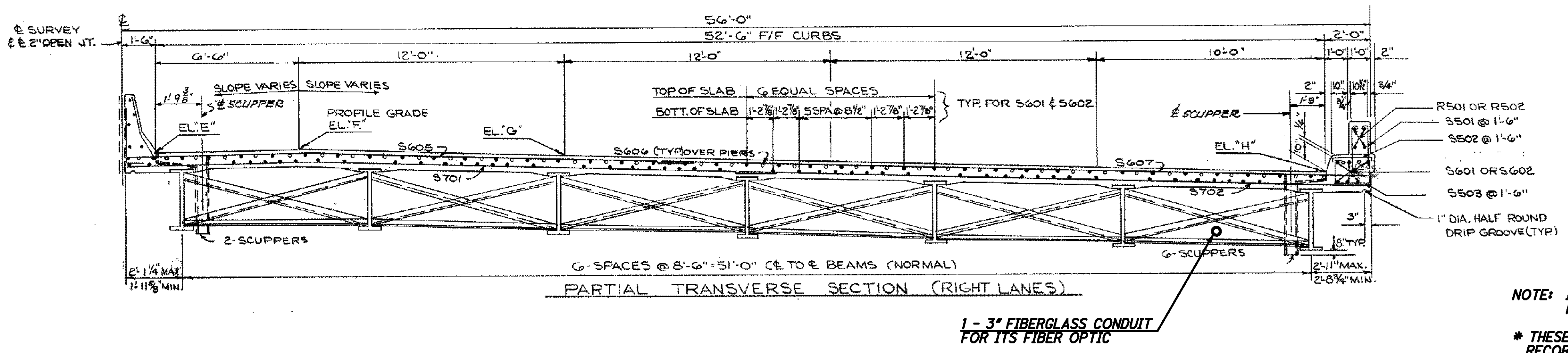
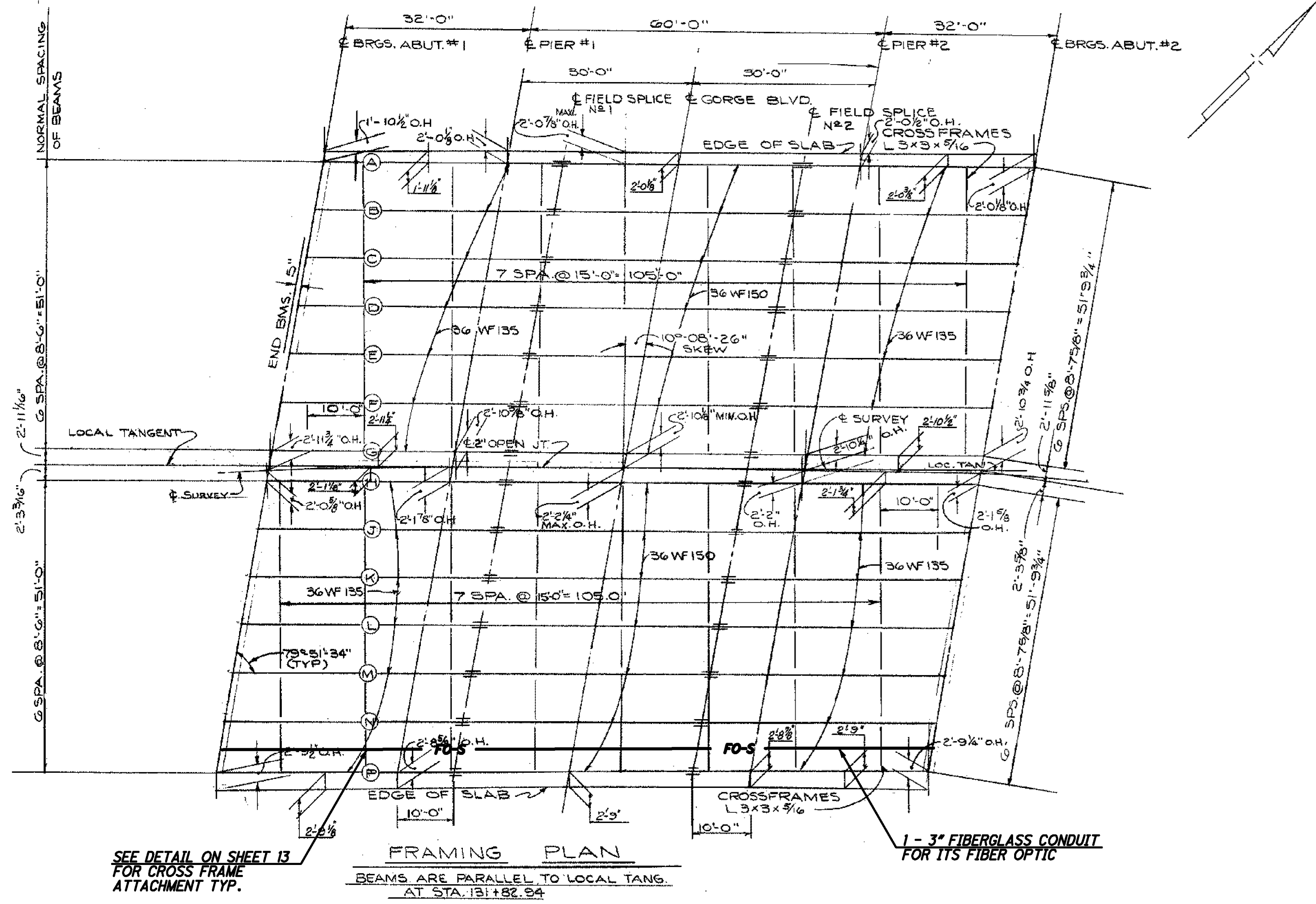
NOTE: INCLUDE EXPANSION COUPLING FOR FO-S AT ALL EXPANSION JOINTS INDICATED.

\* THESE SHEETS WERE TAKEN FROM ODOT RECORD PLANS AND ARE ONLY TO BE USED TO SHOW PROPOSED LOCATIONS OF CONDUIT, HANGERS AND EXPANSION COUPLINGS ON BRIDGE STRUCTURES AS NEEDED.

REFER TO SHEET 175 FOR PLAN SHEET

DESIGN AGENCY		OHIO DEPARTMENT OF TRANSPORTATION	
DATE	REVIEWED	STRUCTURE FILE NUMBER	7700369
DRAWN	GM	CHECKED	JDG
DESIGNED	RAW	REVISIONS	
CONDUIT ATTACHED TO STRUCTURE DETAIL			
BRIDGE NO. SUM-8-0196			
STATE ROUTE 8 MAIN VIADUCT			
STA - SUM ITS	PID No. 77482		
263		390	





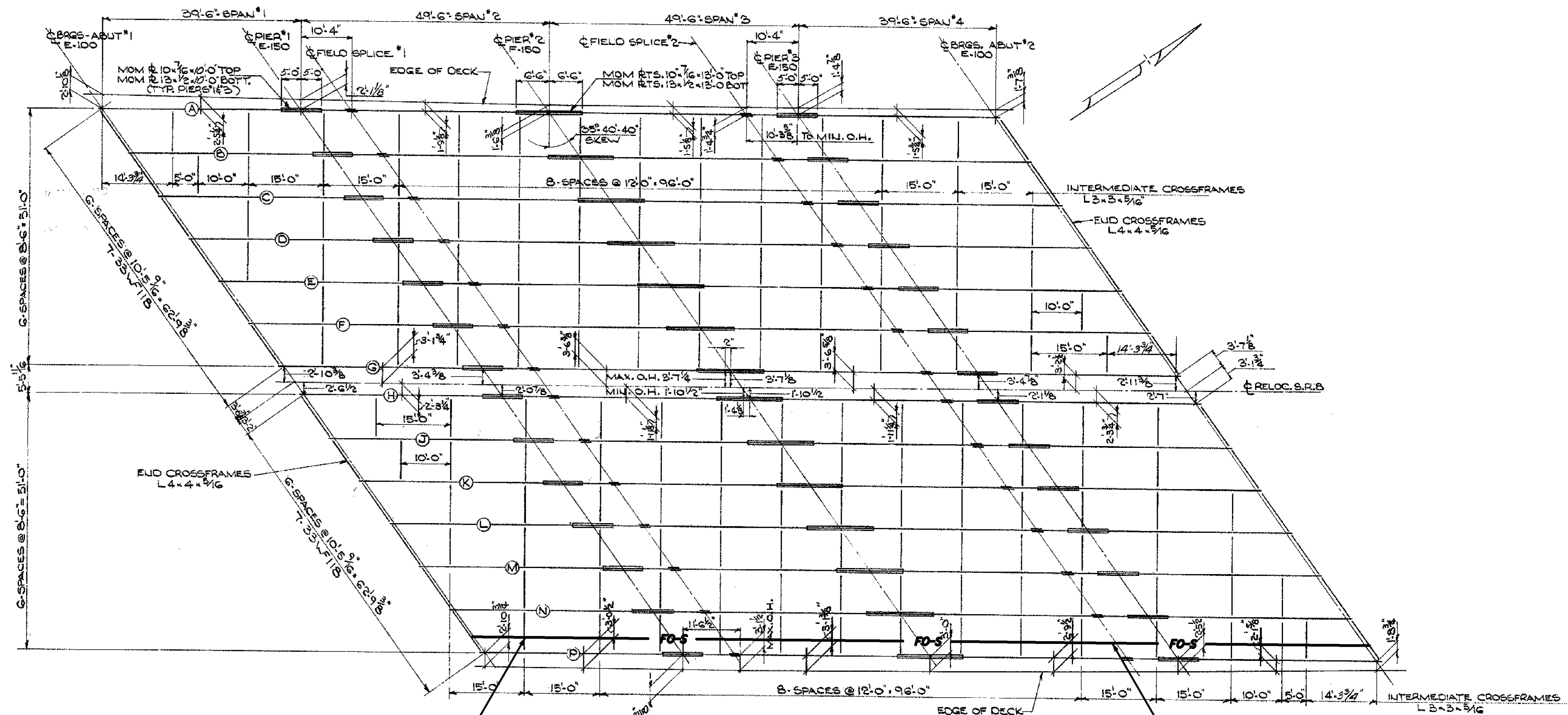
NOTE: INCLUDE EXPANSION COUPLING FOR FO-S AT ALL EXPANSION JOINTS INDICATED.

\* THESE SHEETS WERE TAKEN FROM ODOT RECORD PLANS AND ARE ONLY TO BE USED TO SHOW PROPOSED LOCATIONS OF CONDUIT, HANGERS AND EXPANSION COUPLINGS ON BRIDGE STRUCTURES AS NEEDED.

REFER TO SHEET 179 FOR PLAN SHEET

STA-SUM ITS PID No. 77482	CONDUIT ATTACHED TO STRUCTURE DETAIL BRIDGE NO. SUM-8-0396 STATE ROUTE 8 OVER GORGE BLVD.			DESIGN AGENCY OHIO DEPARTMENT OF TRANSPORTATION
	DESIGNED	DRAWN	REVIEWED	
	RAW	GM	FILE NUMBER	
	CHECKED	REVIS	7700555	

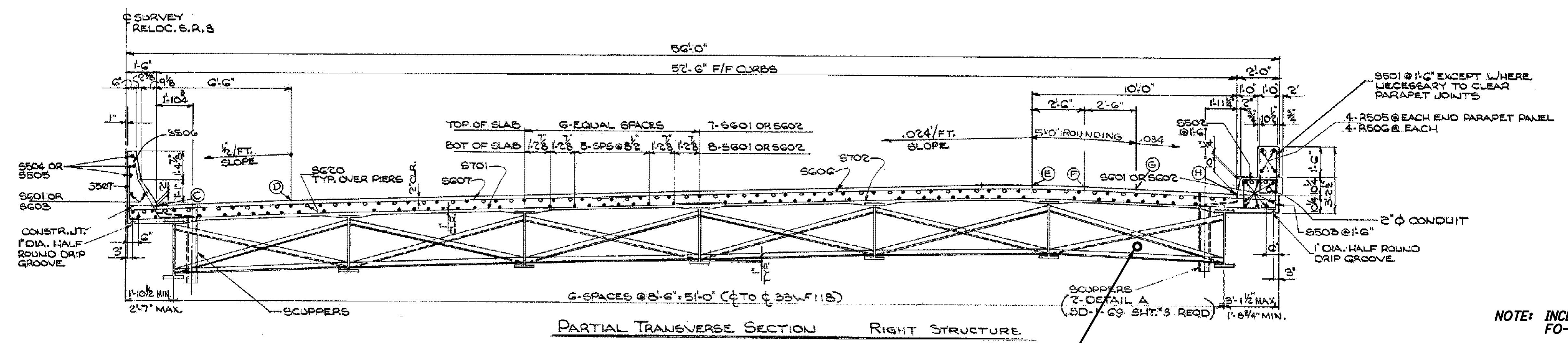
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SEE DETAIL ON SHEET 13 FOR CROSS FRAME ATTACHMENT TYP.

FRAMING PLAN

1 - 3" FIBERGLASS CONDUIT FOR ITS FIBER OPTIC



PARTIAL TRANSVERSE SECTION RIGHT STRUCTURE

1 - 3" FIBERGLASS CONDUIT FOR ITS FIBER OPTIC

NOTE: INCLUDE EXPANSION COUPLING FOR FO-S AT ALL EXPANSION JOINTS INDICATED.

\* THESE SHEETS WERE TAKEN FROM ODOT RECORD PLANS AND ARE ONLY TO BE USED TO SHOW PROPOSED LOCATIONS OF CONDUIT, HANGERS AND EXPANSION COUPLINGS ON BRIDGE STRUCTURES AS NEEDED.

REFER TO SHEET 180 FOR PLAN SHEET

CONDUIT ATTACHED TO STRUCTURE DETAIL

BRIDGE NO. SUM-8-0440  
STATE ROUTE 8 OVER HOME AVENUE

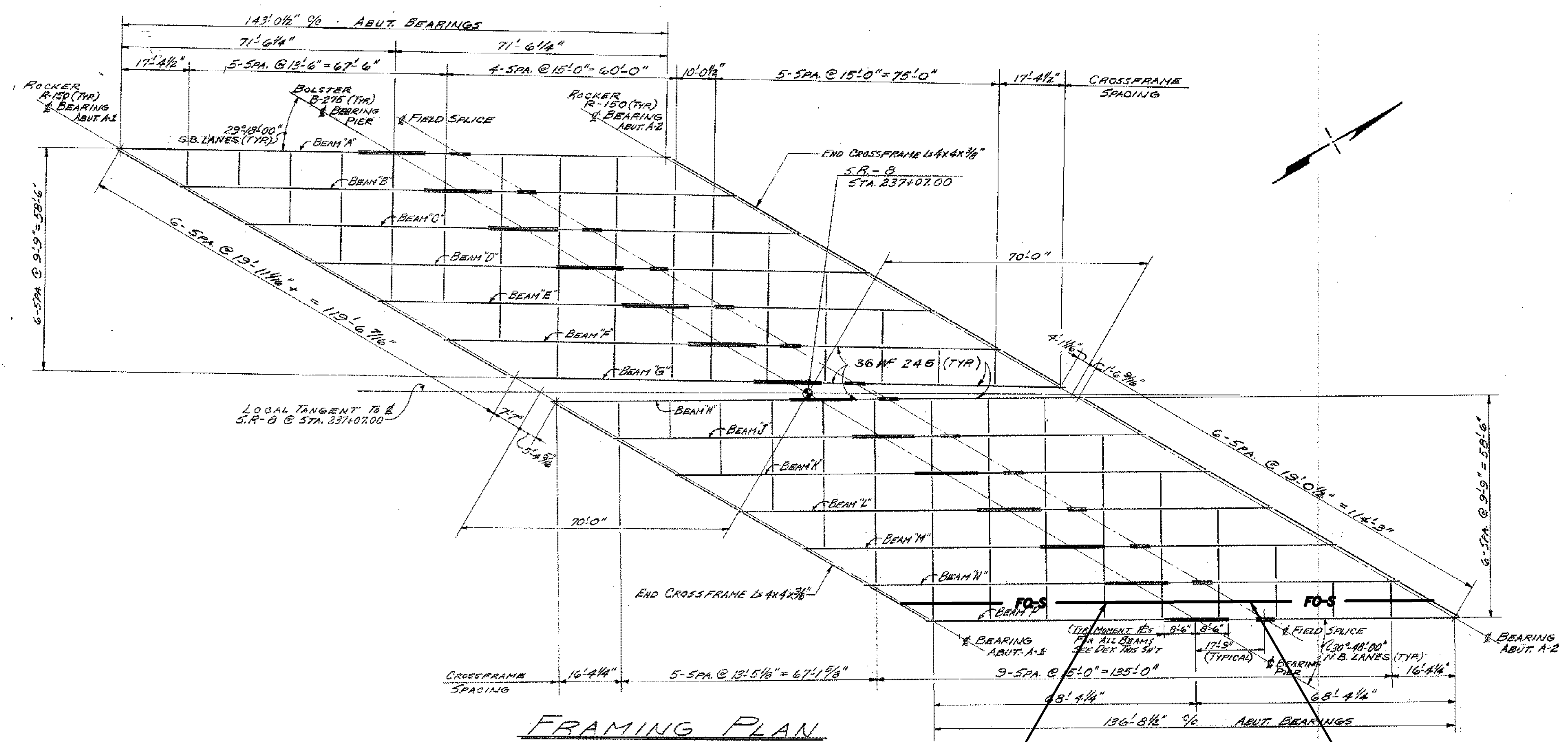
STA-SUM ITS  
PID No. 77482

DESIGN AGENCY  
OHIO DEPARTMENT OF TRANSPORTATION

DESIGNED	RAW	CHECKED	JDG
DRAWN	GM	REVIEWED	GM
REVIEWED	DATE	STRUCTURE FILE NUMBER	7700563

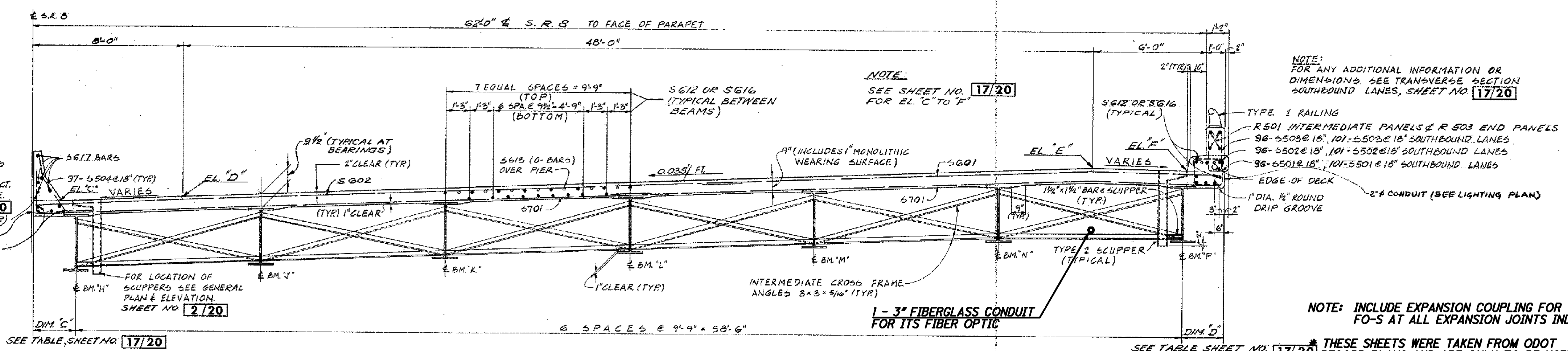


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**FRAMING PLAN**

SEE DETAIL ON SHEET 13 FOR CROSS FRAME ATTACHMENT TYP.  
 1 - 3" FIBERGLASS CONDUIT FOR ITS FIBER OPTIC



**TRANSVERSE SECTION (NORTHBOUND LANES)**

NOTE: FOR ANY ADDITIONAL INFORMATION OR DIMENSIONS, SEE TRANSVERSE SECTION SOUTHBOUND LANES, SHEET NO. 17/20

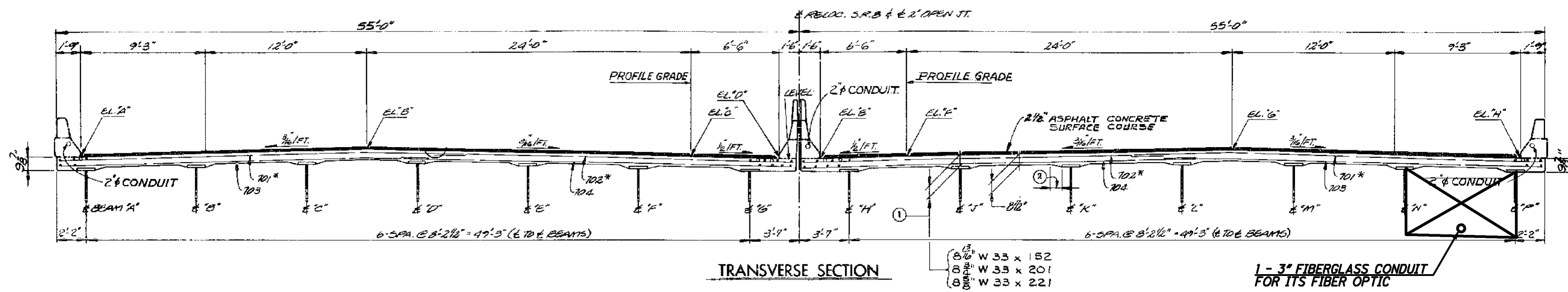
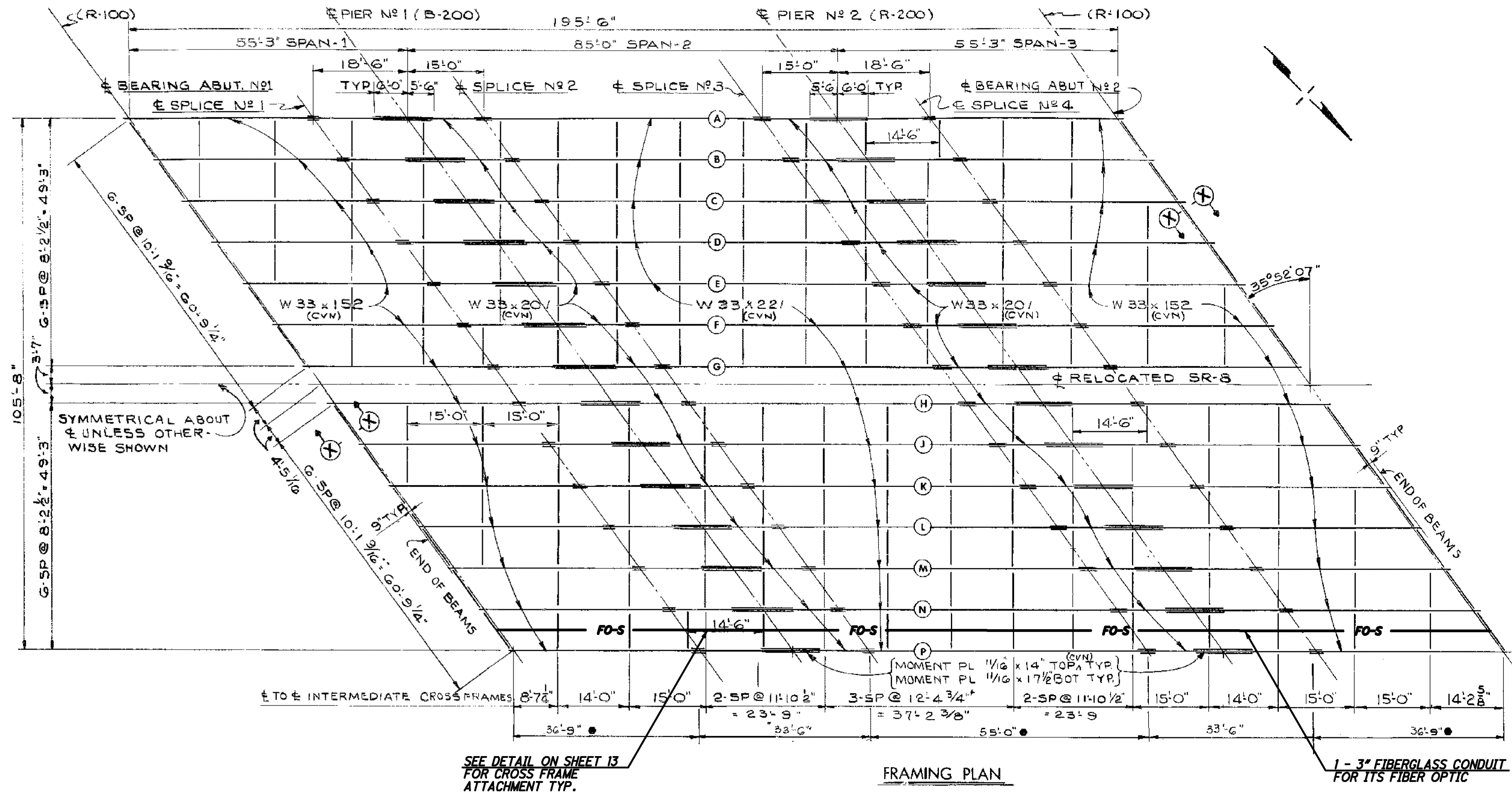
NOTE: INCLUDE EXPANSION COUPLING FOR FO-S AT ALL EXPANSION JOINTS INDICATED.

\* THESE SHEETS WERE TAKEN FROM ODOT RECORD PLANS AND ARE ONLY TO BE USED TO SHOW PROPOSED LOCATIONS OF CONDUIT, HANGERS AND EXPANSION COUPLINGS ON BRIDGE STRUCTURES AS NEEDED.

REFER TO SHEET 183 FOR PLAN SHEET

DESIGNED	RAW	CHECKED	JDG
	GM	REVISION	GM
DRAWN	GM	REVIEWED	GM
DATE	7/7/04	STRUCTURE FILE NUMBER	7700644
DESIGN AGENCY	OHIO DEPARTMENT OF TRANSPORTATION		
CONDUIT ATTACHED TO STRUCTURE DETAIL			
BRIDGE NO. SUM-8-0597			
STATE ROUTE 8 OVER CUYAHOGA RIVER			
STA-SUM ITS	PID No. 77482		
267 390			

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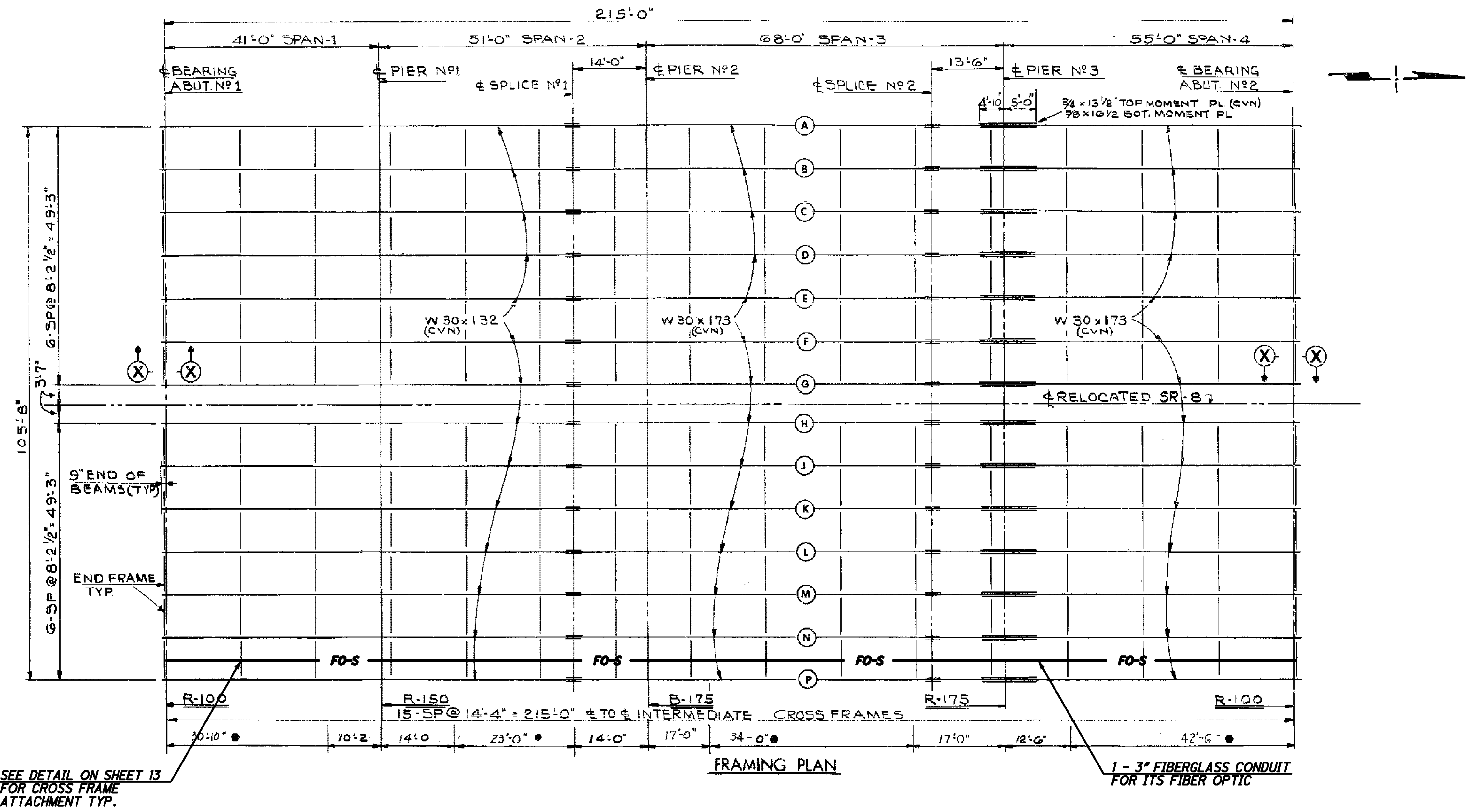
NOTE: INCLUDE EXPANSION COUPLING FOR FO-S AT ALL EXPANSION JOINTS INDICATED.

\* THESE SHEETS WERE TAKEN FROM ODOT RECORD PLANS AND ARE ONLY TO BE USED TO SHOW PROPOSED LOCATIONS OF CONDUIT, HANGERS AND EXPANSION COUPLINGS ON BRIDGE STRUCTURES AS NEEDED.

REFER TO SHEET 187 FOR PLAN SHEET

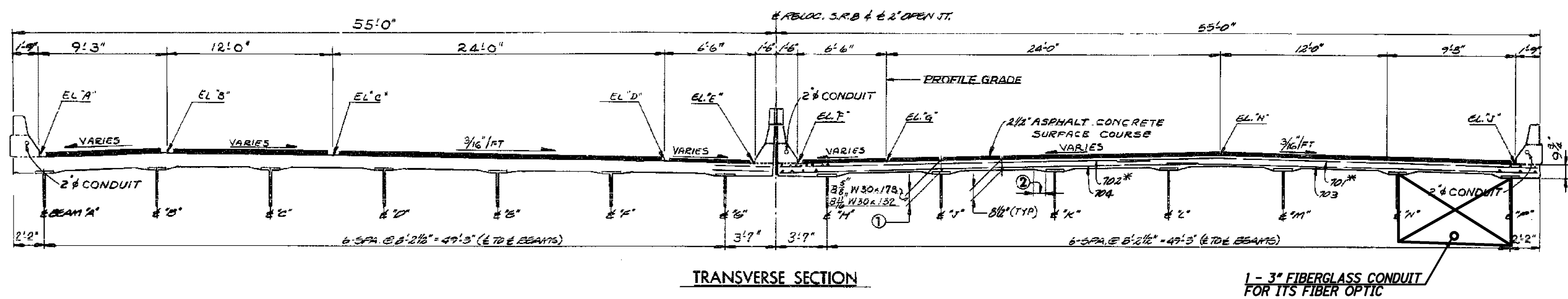
DESIGN AGENCY OHIO DEPARTMENT OF TRANSPORTATION	DATE	STRUCTURE FILE NUMBER
	REVIEWED	7700015
DRAWN GM	CHECKED	JDG
	DESIGNED RAW	
CONDUIT ATTACHED TO STRUCTURE DETAIL		
BRIDGE NO. SUM-8-0801		
STATE ROUTE 8 OVER HUDSON DRIVE		
STA - SUM ITS	PID No. 77482	
		268 390

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SEE DETAIL ON SHEET 13 FOR CROSS FRAME ATTACHMENT TYP.

1 - 3" FIBERGLASS CONDUIT FOR ITS FIBER OPTIC



1 - 3" FIBERGLASS CONDUIT FOR ITS FIBER OPTIC

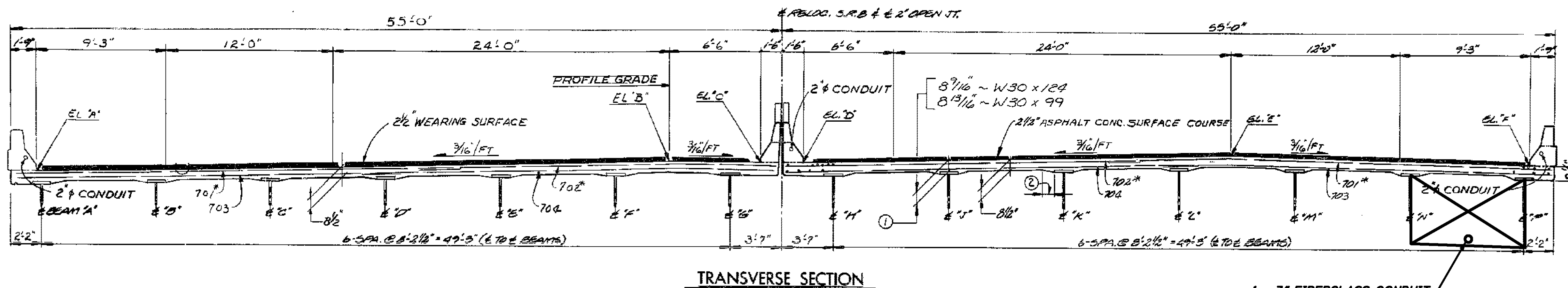
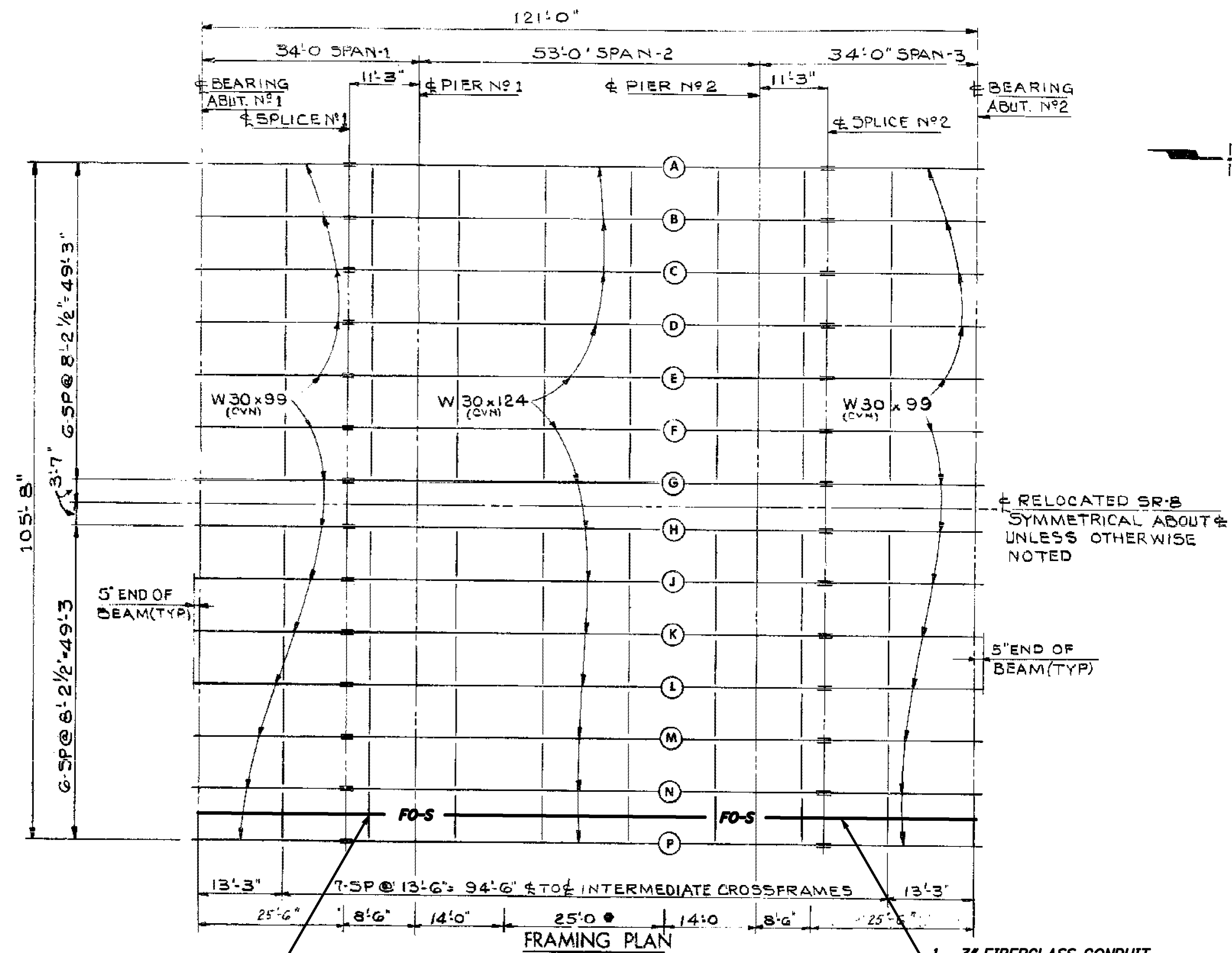
NOTE: INCLUDE EXPANSION COUPLING FOR FO-S AT ALL EXPANSION JOINTS INDICATED.

\* THESE SHEETS WERE TAKEN FROM ODOT RECORD PLANS AND ARE ONLY TO BE USED TO SHOW PROPOSED LOCATIONS OF CONDUIT, HANGERS AND EXPANSION COUPLINGS ON BRIDGE STRUCTURES AS NEEDED.

REFER TO SHEET 188 FOR PLAN SHEET

DESIGN AGENCY OHIO DEPARTMENT OF TRANSPORTATION	DATE	STRUCTURE FILE NUMBER
	REVIEWED	7700083
DRAWN	GM	REVISION
DESIGNED	RAW	CHECKED
	JDG	
CONDUIT ATTACHED TO STRUCTURE DETAIL		
BRIDGE NO. - SUM-8-0841		
STATE ROUTE 8 OVER MUD BROOK TRIBUTARY		
STA - SUM ITS	PID No. 77482	
		269 390

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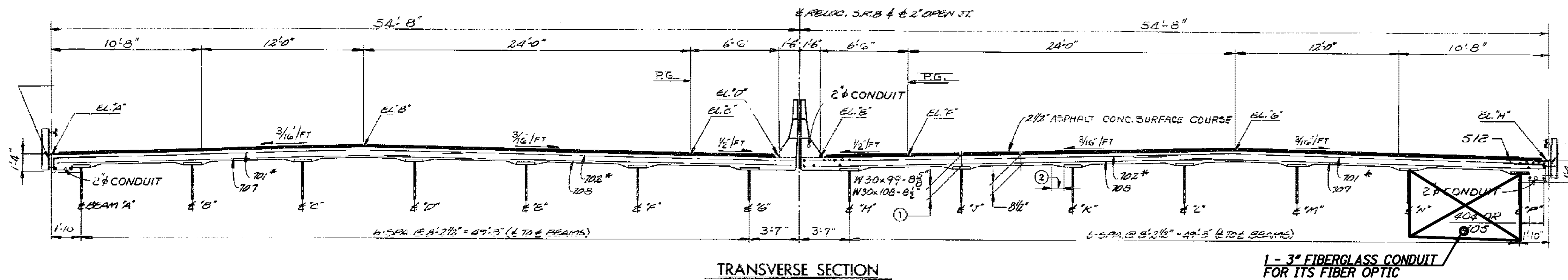
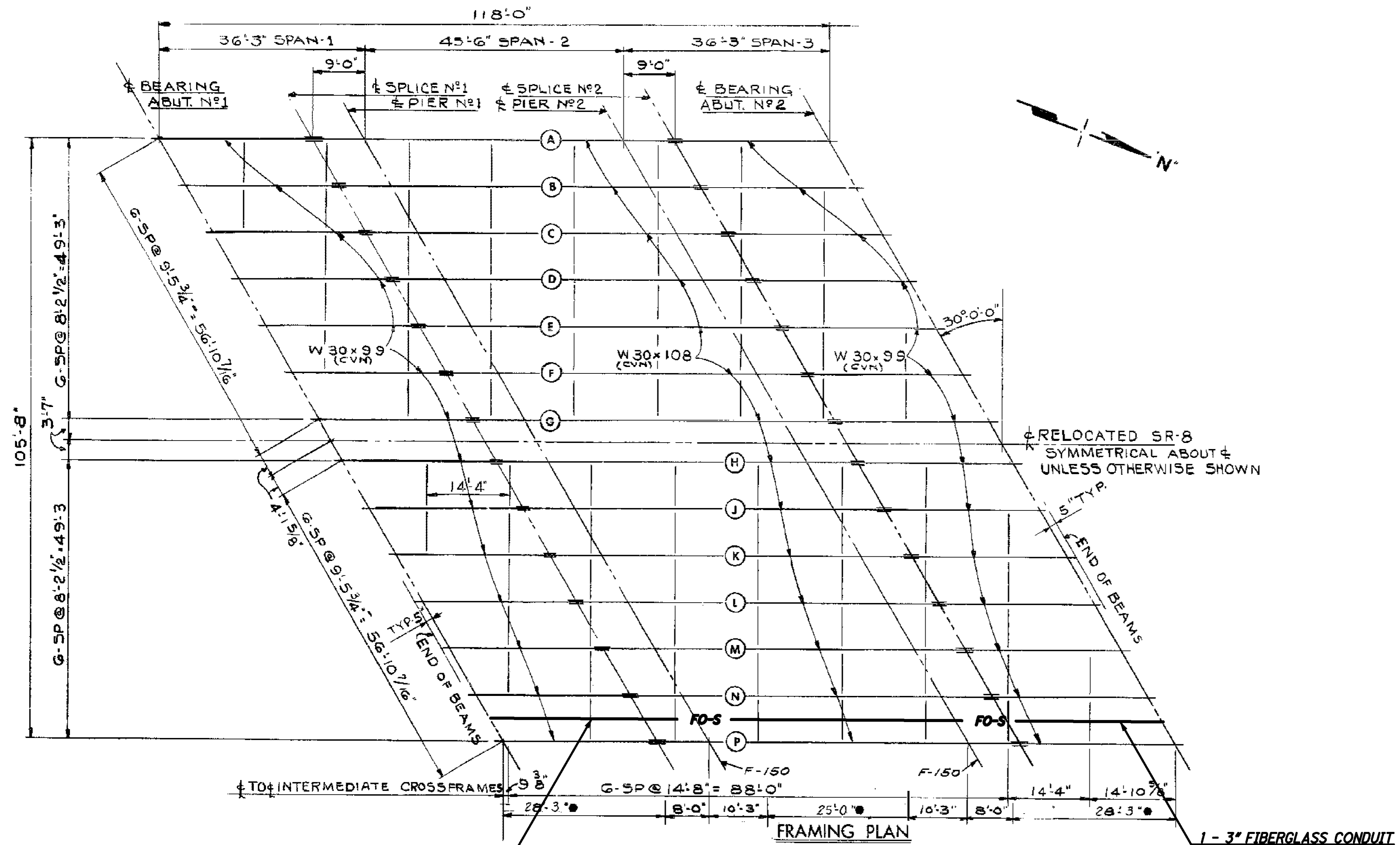
NOTE: INCLUDE EXPANSION COUPLING FOR FO-S AT ALL EXPANSION JOINTS INDICATED.

\* THESE SHEETS WERE TAKEN FROM ODOT RECORD PLANS AND ARE ONLY TO BE USED TO SHOW PROPOSED LOCATIONS OF CONDUIT, HANGERS AND EXPANSION COUPLINGS ON BRIDGE STRUCTURES AS NEEDED.

REFER TO SHEET 190 FOR PLAN SHEET

DESIGN AGENCY OHIO DEPARTMENT OF TRANSPORTATION	DATE	REVIEWED	DRAWN	DESIGNED
	STRUCTURE FILE NUMBER 7700113	GM	GM	RAW
CONDUIT ATTACHED TO STRUCTURE DETAIL BRIDGE NO. SUM-8-0959 STATE ROUTE 8 OVER HAMPSHIRE ROAD	DATE	REVIEWED	DRAWN	DESIGNED
	STRUCTURE FILE NUMBER 7700113	GM	GM	RAW
STA - SUM ITS PID No. 77482	DATE	REVIEWED	DRAWN	DESIGNED
	STRUCTURE FILE NUMBER 270 390	GM	GM	RAW





NOTE: INCLUDE EXPANSION COUPLING FOR FO-S AT ALL EXPANSION JOINTS INDICATED.

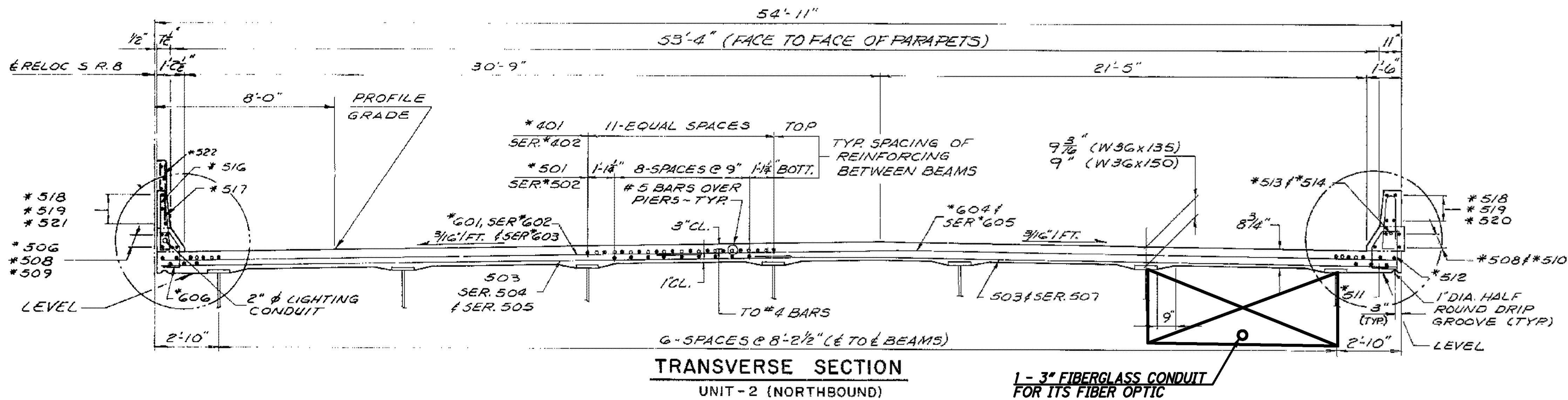
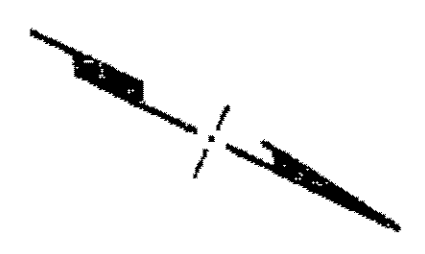
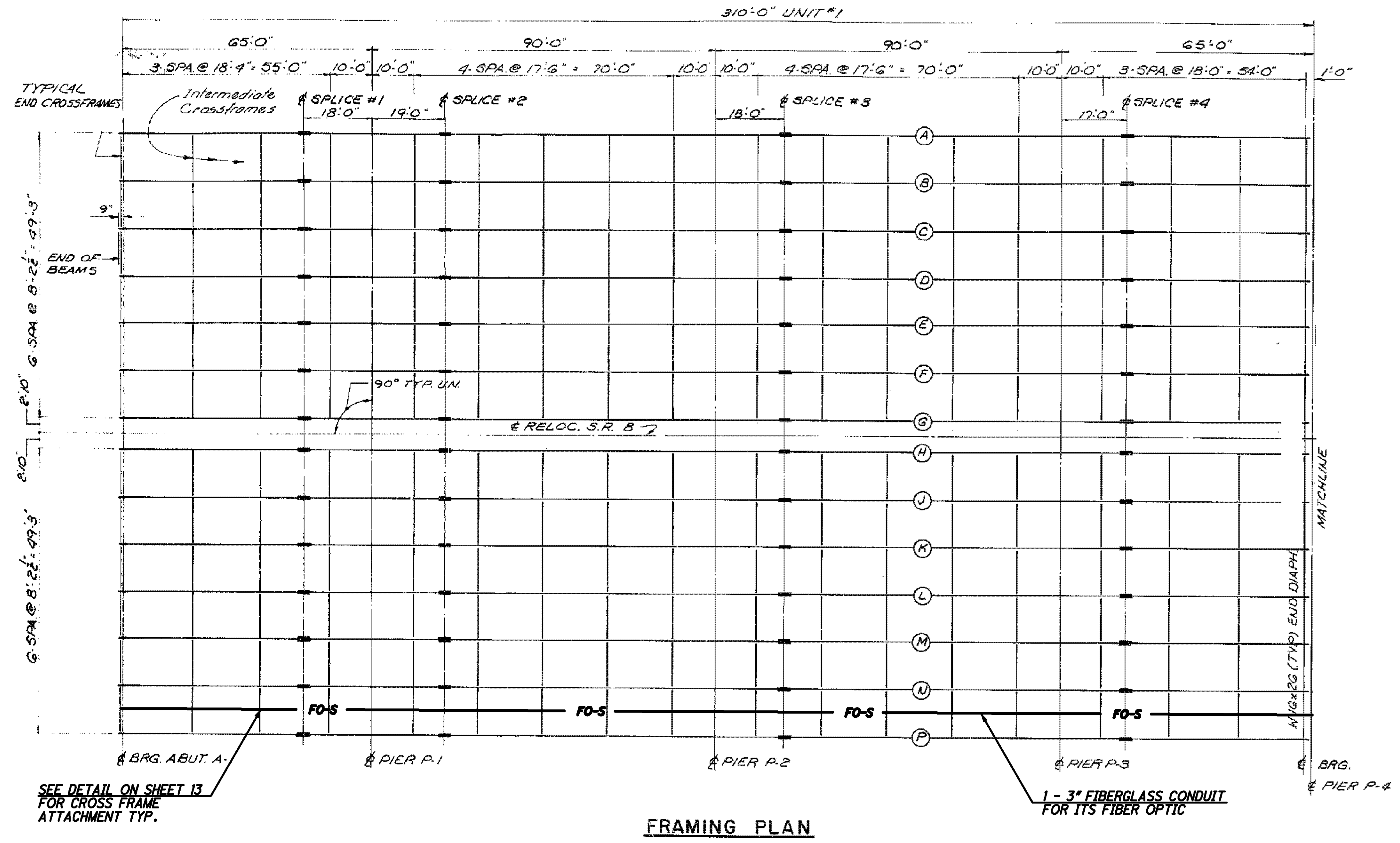
\* THESE SHEETS WERE TAKEN FROM ODOT RECORD PLANS AND ARE ONLY TO BE USED TO SHOW PROPOSED LOCATIONS OF CONDUIT, HANGERS AND EXPANSION COUPLINGS ON BRIDGE STRUCTURES AS NEEDED.

REFER TO SHEET 191 FOR PLAN SHEET

DESIGN AGENCY OHIO DEPARTMENT OF TRANSPORTATION	DATE	STRUCTURE FILE NUMBER
	REVIEWED	7700121
DRAWN GM	CHECKED	JDG
	DESIGNED RAW	
CONDUIT ATTACHED TO STRUCTURE DETAIL		
BRIDGE NO. SUM-8-1015		
STATE ROUTE 8 OVER MUD BROOK		
STA-SUM ITS	PID No. 77482	
		271 390



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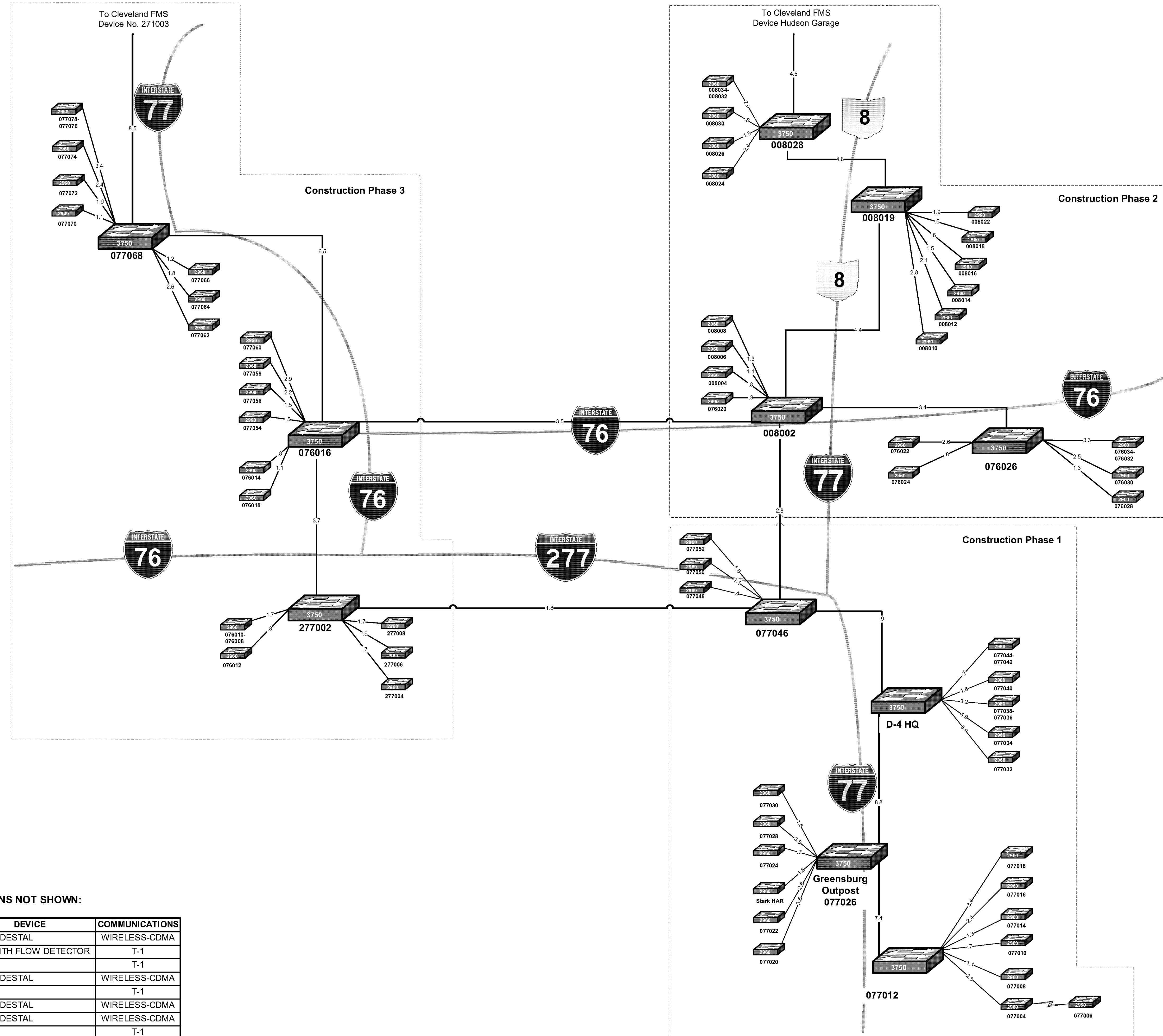


NOTE: INCLUDE EXPANSION COUPLING FOR FO-S AT ALL EXPANSION JOINTS INDICATED.

\* THESE SHEETS WERE TAKEN FROM ODOT RECORD PLANS AND ARE ONLY TO BE USED TO SHOW PROPOSED LOCATIONS OF CONDUIT, HANGERS AND EXPANSION COUPLINGS ON BRIDGE STRUCTURES AS NEEDED.

REFER TO SHEET 192 FOR PLAN SHEET

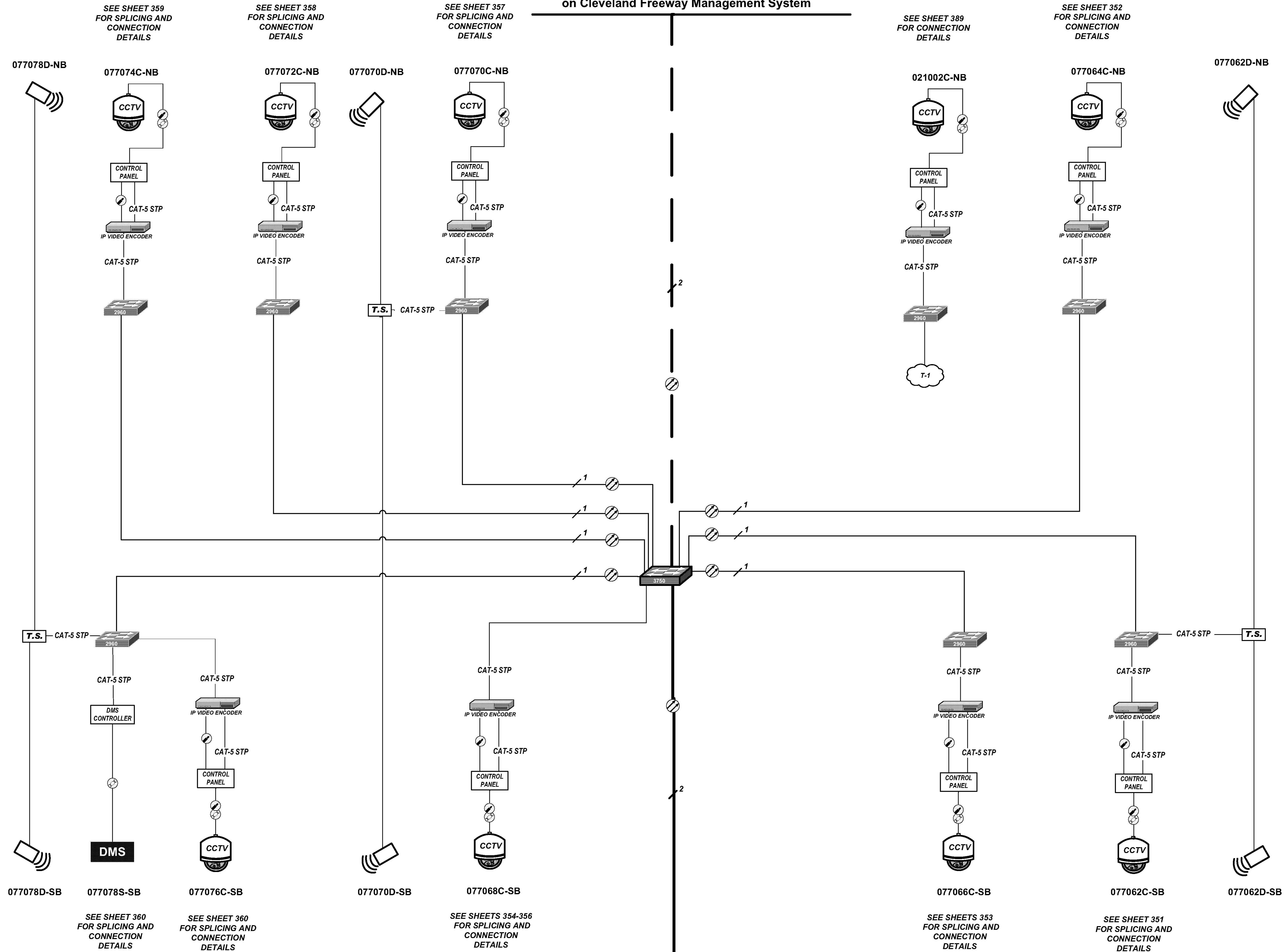
DESIGN AGENCY		OHIO DEPARTMENT OF TRANSPORTATION	
DATE	REVIEWED	STRUCTURE FILE NUMBER	7700148
DRAWN	GM	REVISION	GM
DESIGNED	RAW	CHECKED	JDG
CONDUIT ATTACHED TO STRUCTURE DETAIL			
BRIDGE NO. SUM-8-1054			
STATE ROUTE 8 OVER SEASONS ROAD			
STA - SUM ITS		PID No. 77482	
272		390	



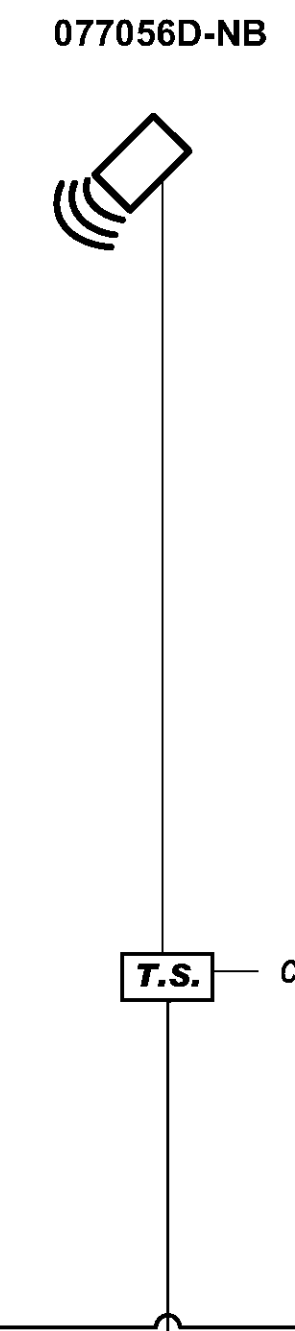
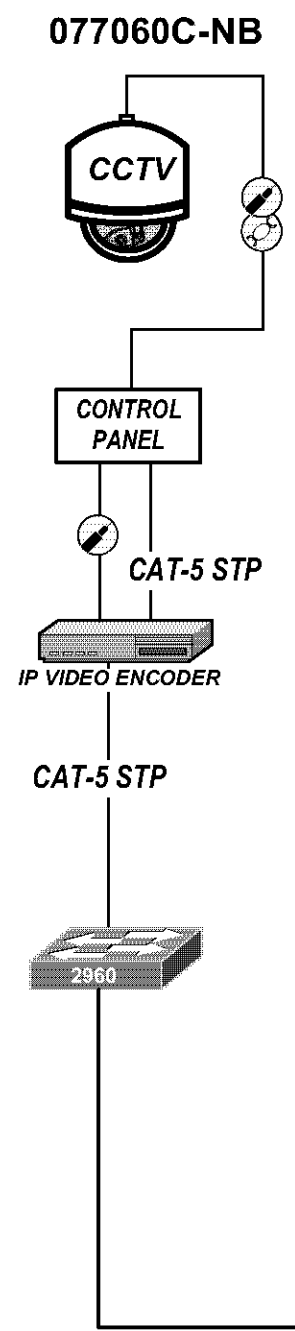
**LIST OF REMOTE LOCATIONS NOT SHOWN:**

LOCATION	MILEPOST	DEVICE	COMMUNICATIONS
071002	208.00	DMS PEDESTAL	WIRELESS-CDMA
071004	209.36	CCTV WITH FLOW DETECTOR	T-1
076002	0.53	CCTV	T-1
076004	10.62	DMS PEDESTAL	WIRELESS-CDMA
076006	13.42	CCTV	T-1
076036	34.92	DMS PEDESTAL	WIRELESS-CDMA
077002	101.27	DMS PEDESTAL	WIRELESS-CDMA
021002	8.56	CCTV	T-1
620002	23.26	DMS PEDESTAL	WIRELESS-CDMA

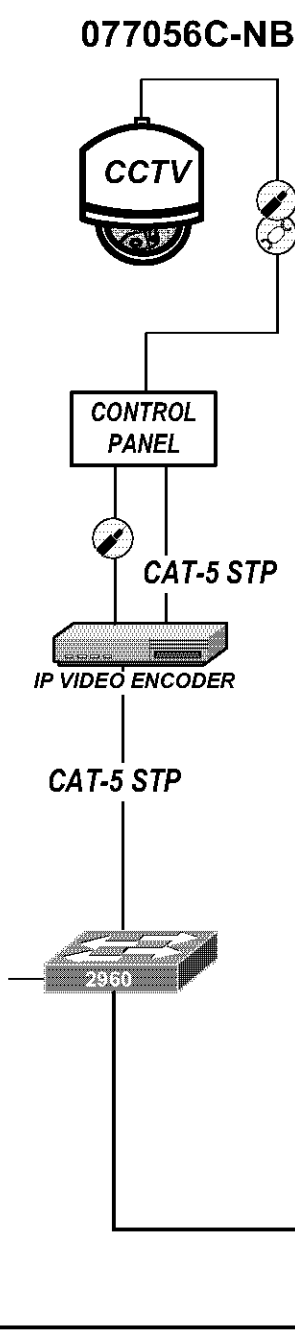
Connection to Device #271003  
on Cleveland Freeway Management System



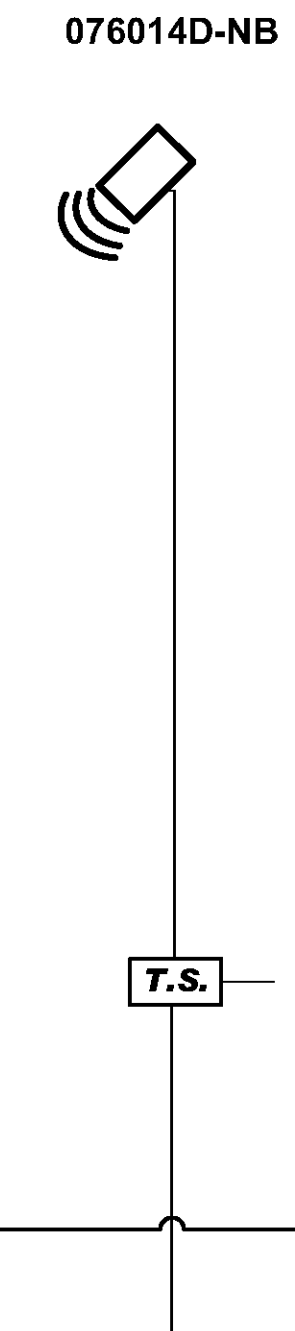
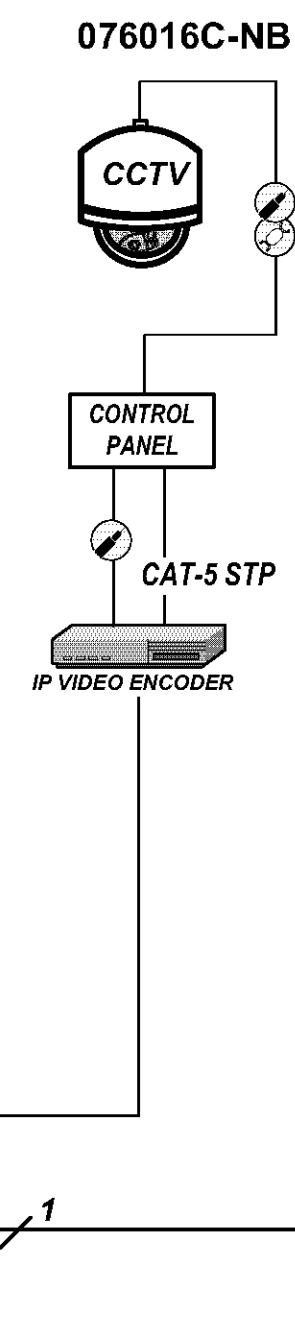
SEE SHEET 350  
FOR SPLICING AND  
CONNECTION  
DETAILS



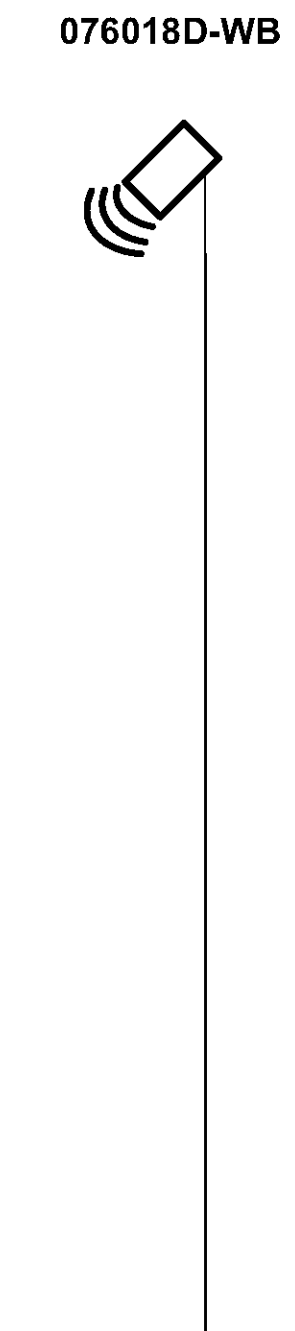
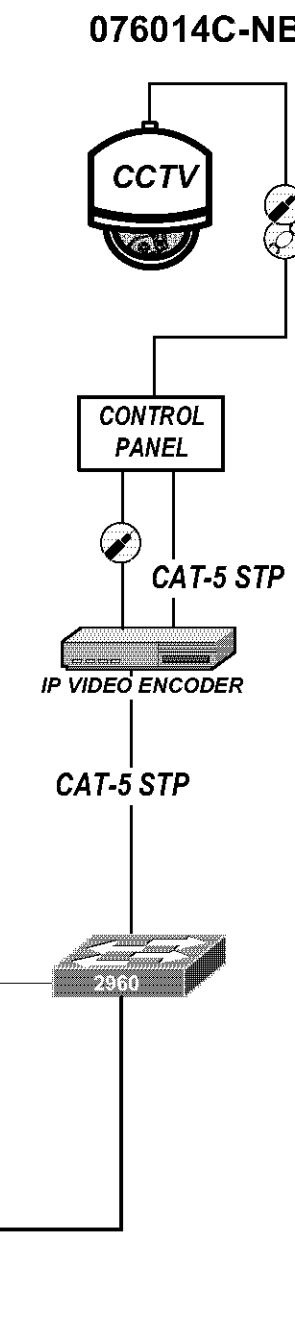
SEE SHEET 348  
FOR SPLICING AND  
CONNECTION  
DETAILS



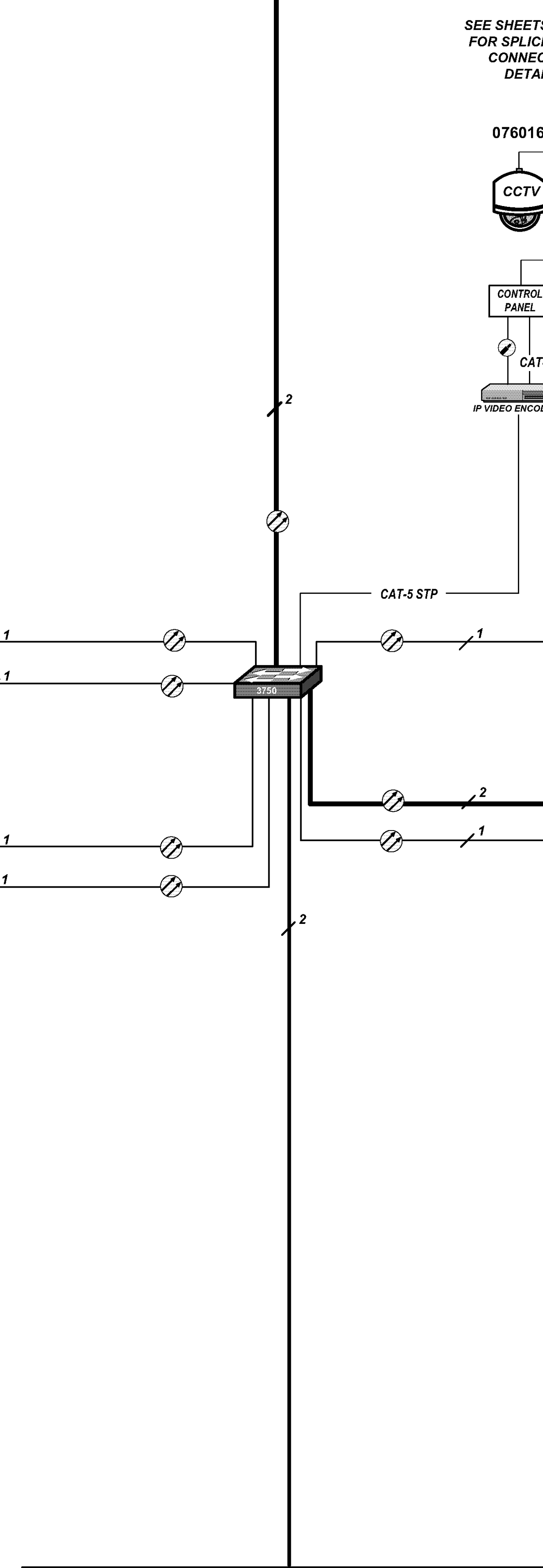
SEE SHEETS 293-295  
FOR SPLICING AND  
CONNECTION  
DETAILS



SEE SHEET 292  
FOR SPLICING AND  
CONNECTION  
DETAILS



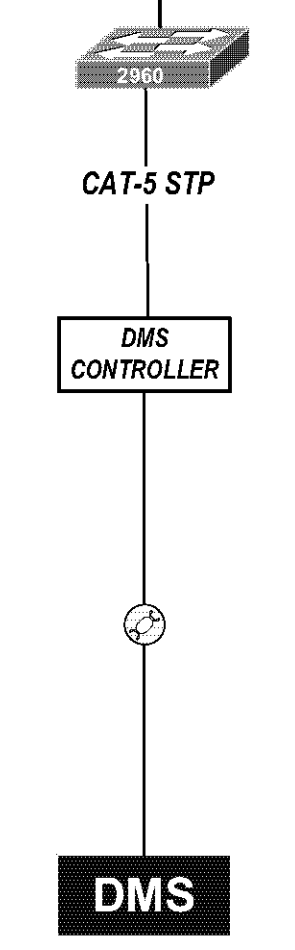
MATCHLINE A SHEET 274 OF 390 MATCHLINE A



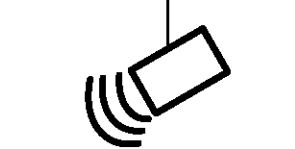
MATCHLINE B SHEET 279 OF 390 MATCHLINE B

SEE SHEET 349  
FOR SPLICING AND  
CONNECTION  
DETAILS

077058S-SB

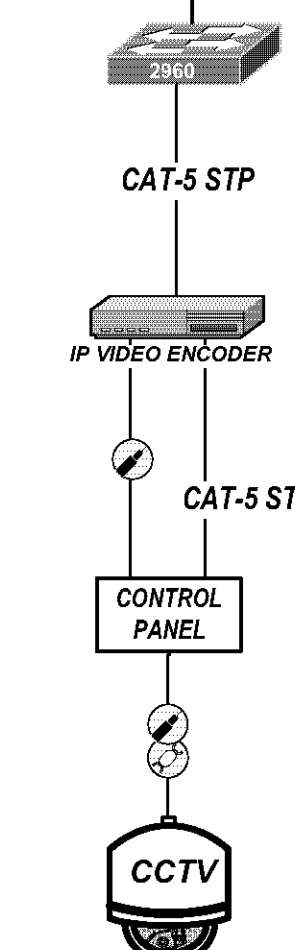


077056D-SB



SEE SHEETS 347  
FOR SPLICING AND  
CONNECTION  
DETAILS

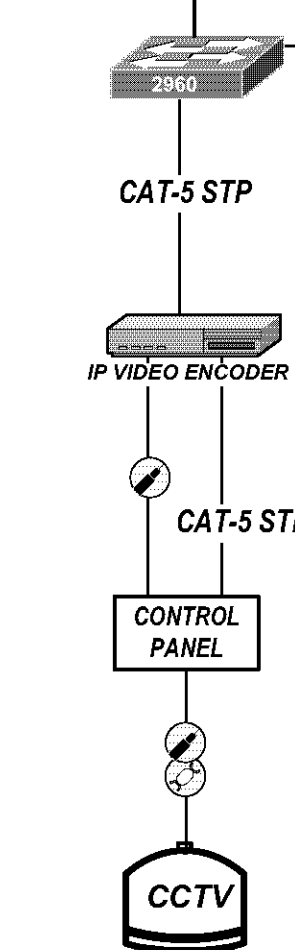
077054C-SB



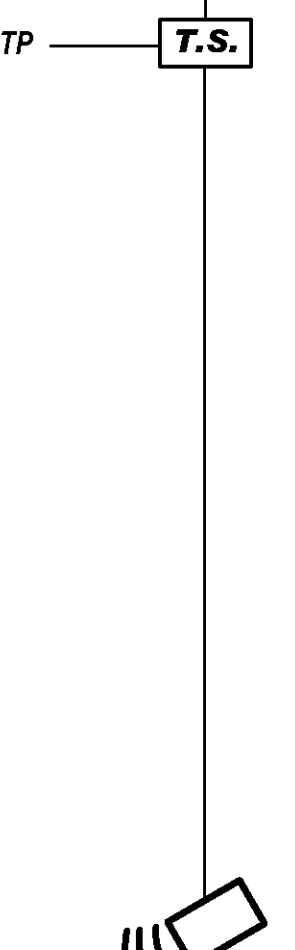
MATCHLINE C SHEET 276 OF 390 MATCHLINE C

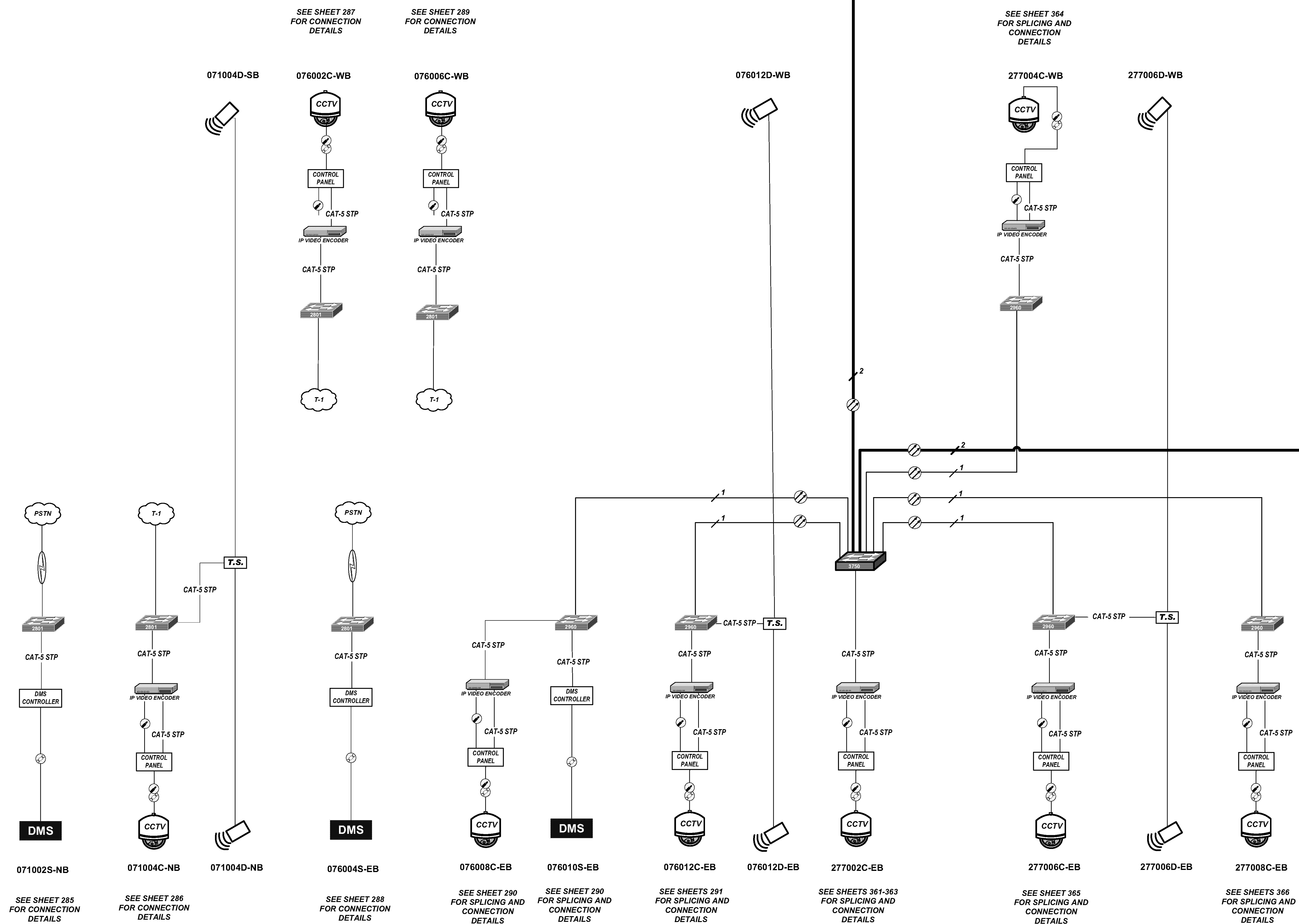
SEE SHEET 296  
FOR SPLICING AND  
CONNECTION  
DETAILS

076018C-EB



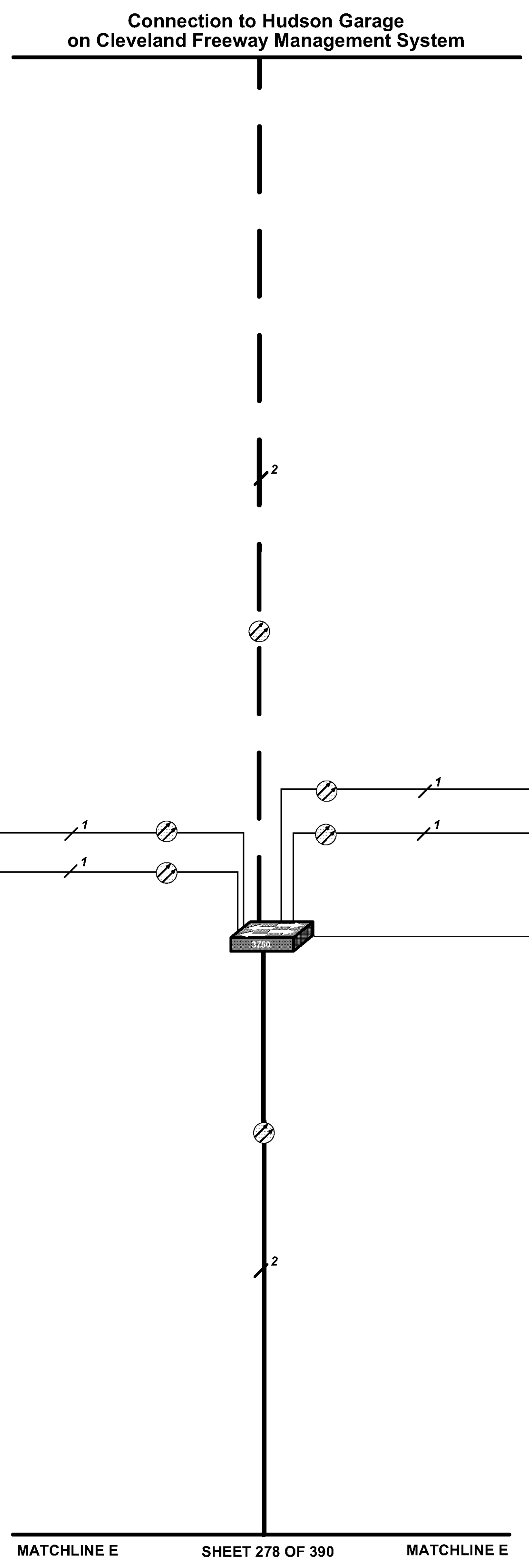
076018D-EB





MATCHLINE D SHEET 281 OF 390 MATCHLINE D





SEE SHEET 387  
FOR SPLICING AND  
CONNECTION  
DETAILS

SEE SHEET 383  
FOR SPLICING AND  
CONNECTION  
DETAILS

SEE SHEET 382  
FOR SPLICING AND  
CONNECTION  
DETAILS

008034D-NB

008030C-NB

008026C-NB

008024C-NB

T.S.

008034D-SB

008034C-SB

008032S-SB

008028C-SB

SEE SHEET 388  
FOR SPLICING AND  
CONNECTION  
DETAILS

SEE SHEET 388  
FOR SPLICING AND  
CONNECTION  
DETAILS

SEE SHEET 384-386  
FOR SPLICING AND  
CONNECTION  
DETAILS

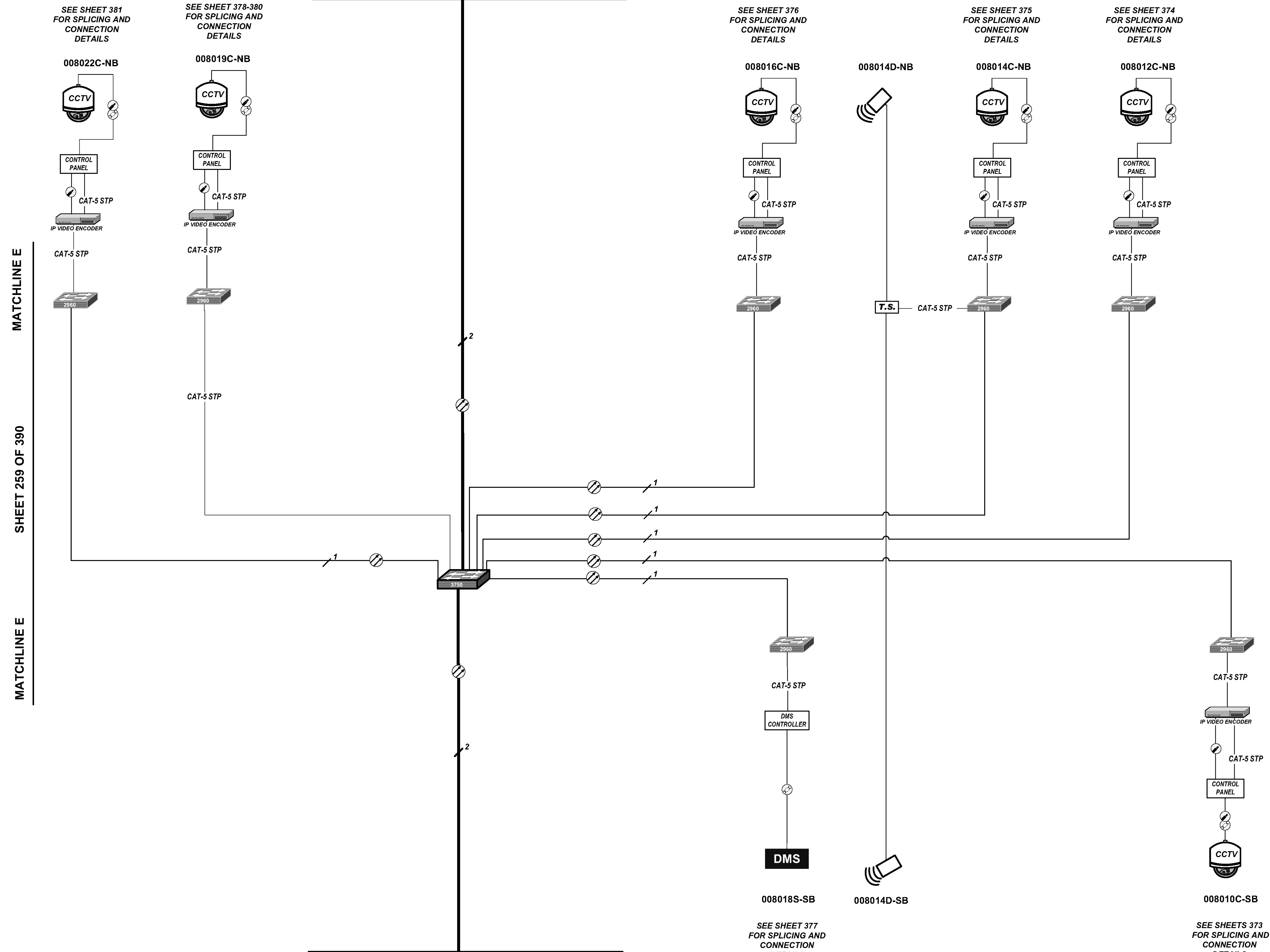
MATCHLINE E

SHEET 278 OF 390

MATCHLINE E

MATCHLINE E SHEET 277 OF 390 MATCHLINE E

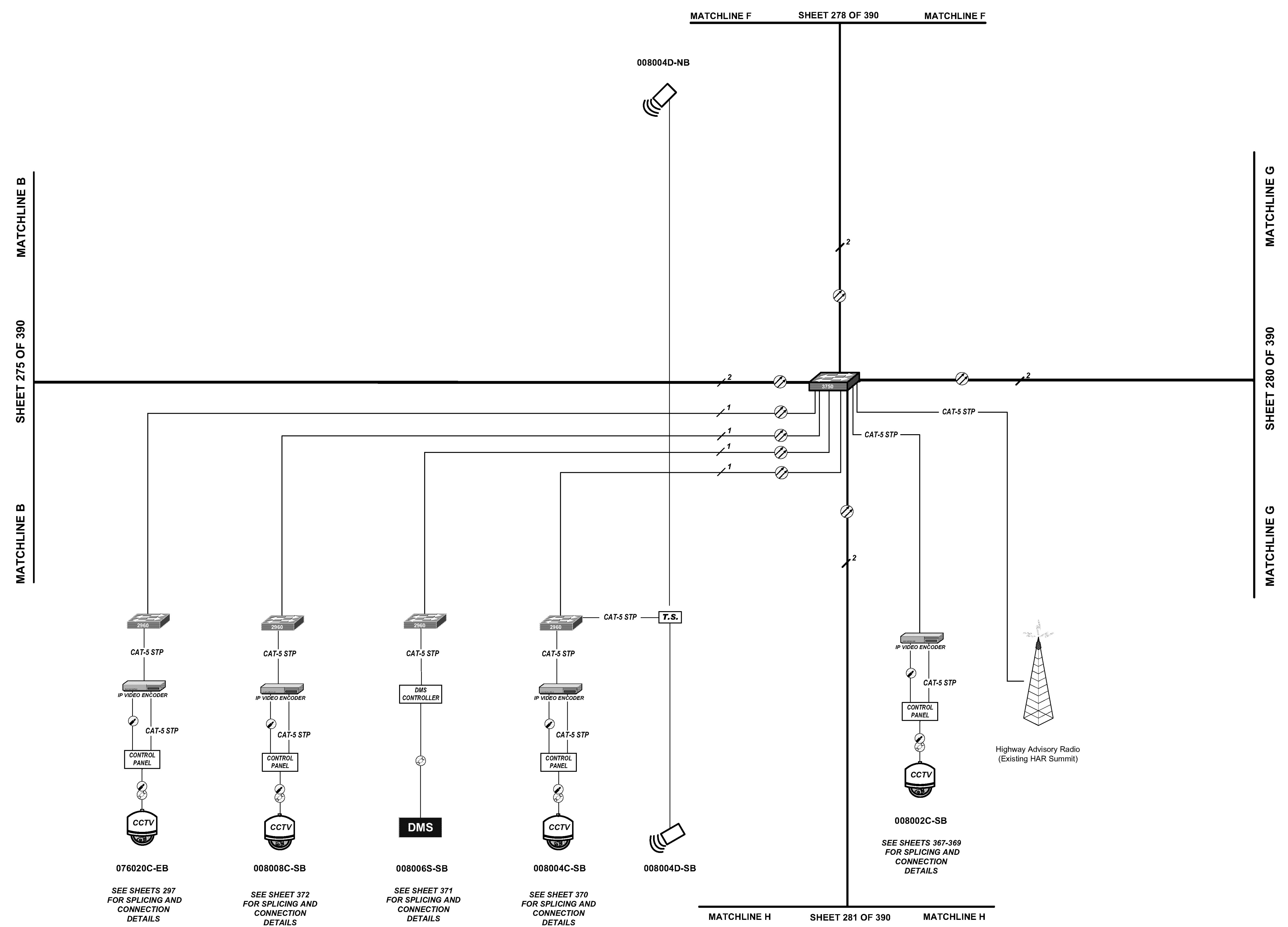
MATCHLINE F SHEET 279 OF 390 MATCHLINE F



MATCHLINE E

SHEET 259 OF 390

MATCHLINE E



SEE SHEETS 297  
FOR SPLICING AND  
CONNECTION  
DETAILS

SEE SHEET 372  
FOR SPLICING AND  
CONNECTION  
DETAILS

SEE SHEET 371  
FOR SPLICING AND  
CONNECTION  
DETAILS

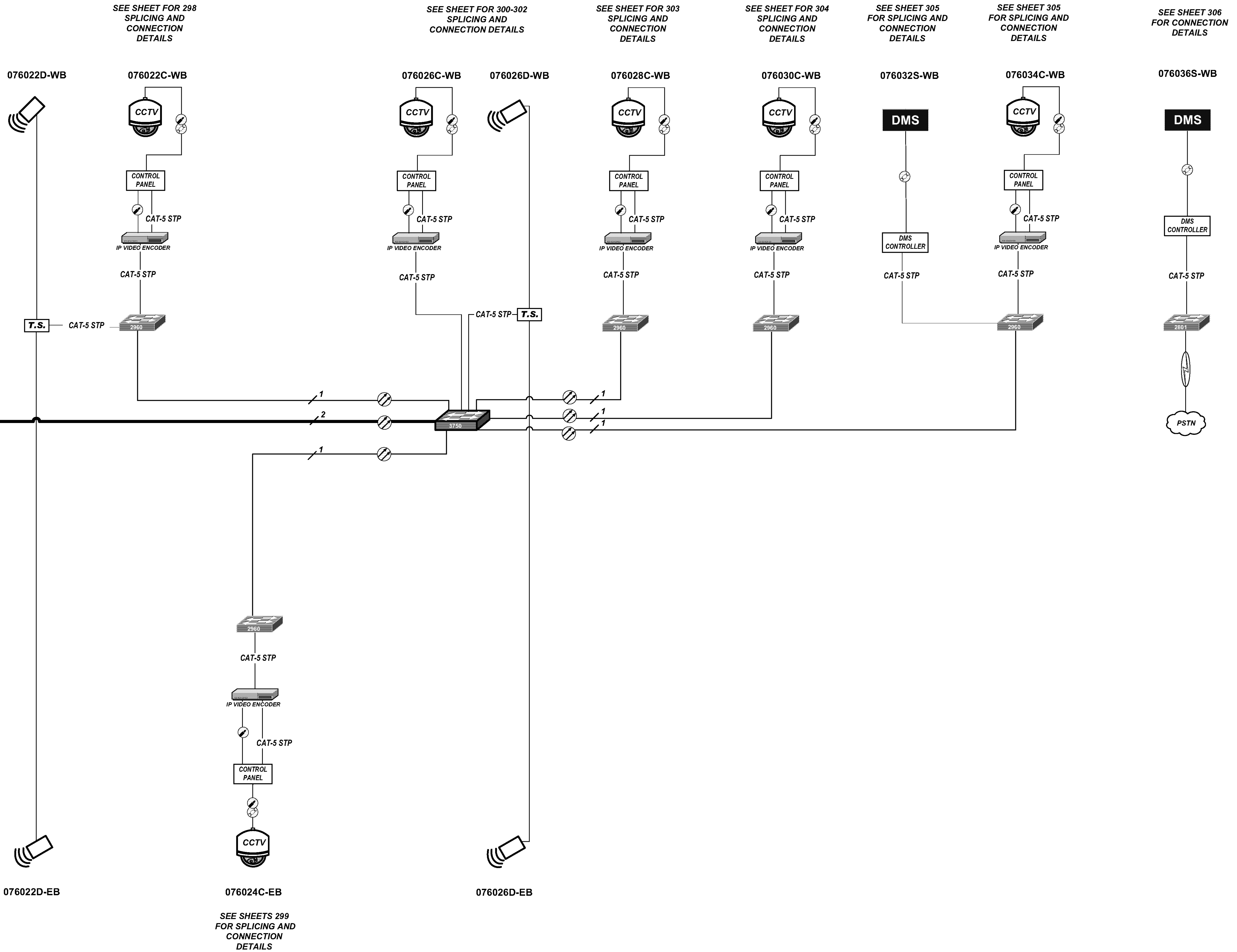
SEE SHEET 370  
FOR SPLICING AND  
CONNECTION  
DETAILS

SEE SHEETS 367-369  
FOR SPLICING AND  
CONNECTION  
DETAILS

MATCHLINE G

SHEET 279 OF 390

MATCHLINE G



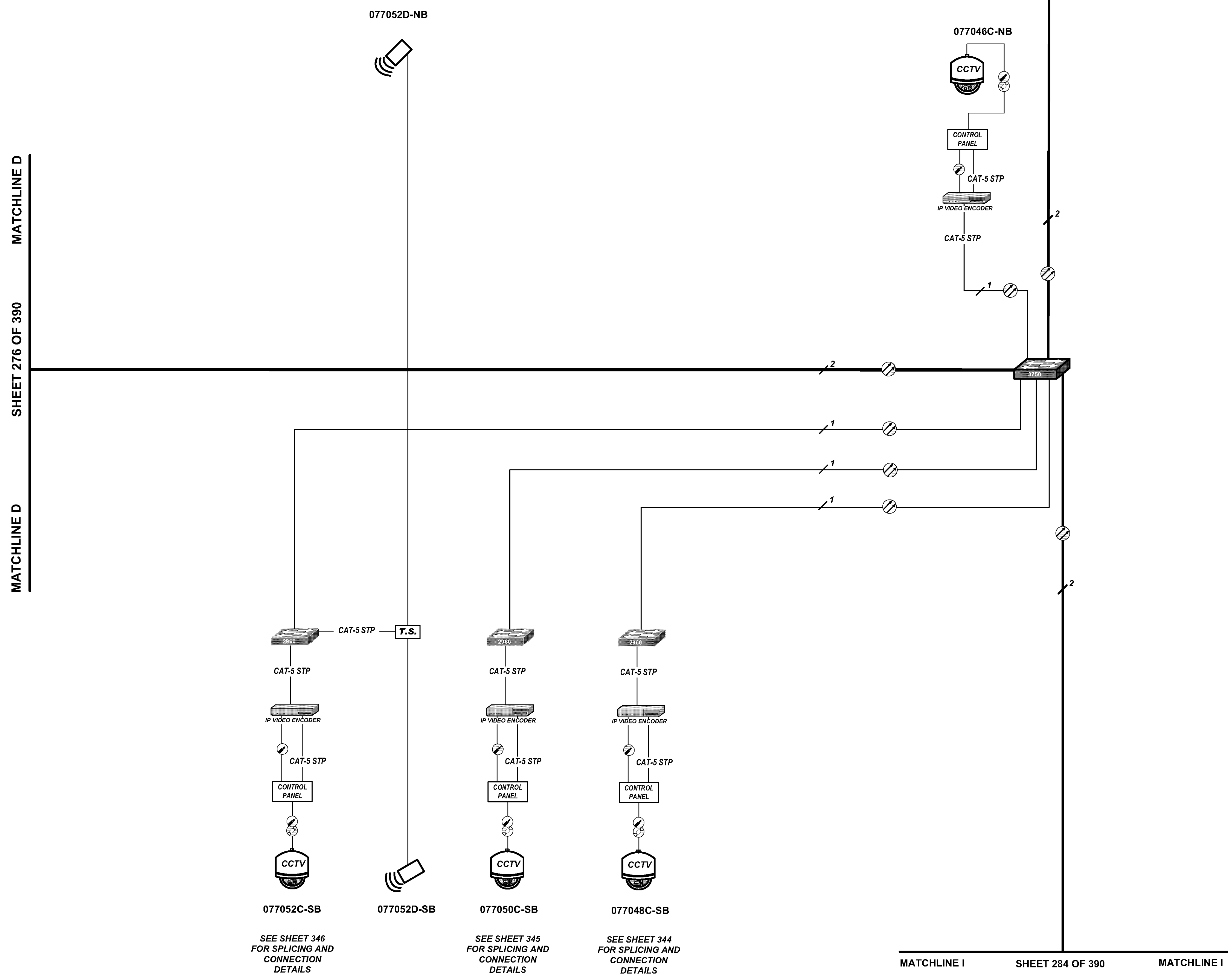
COMMUNICATIONS PLAN

STA-SUM ITS

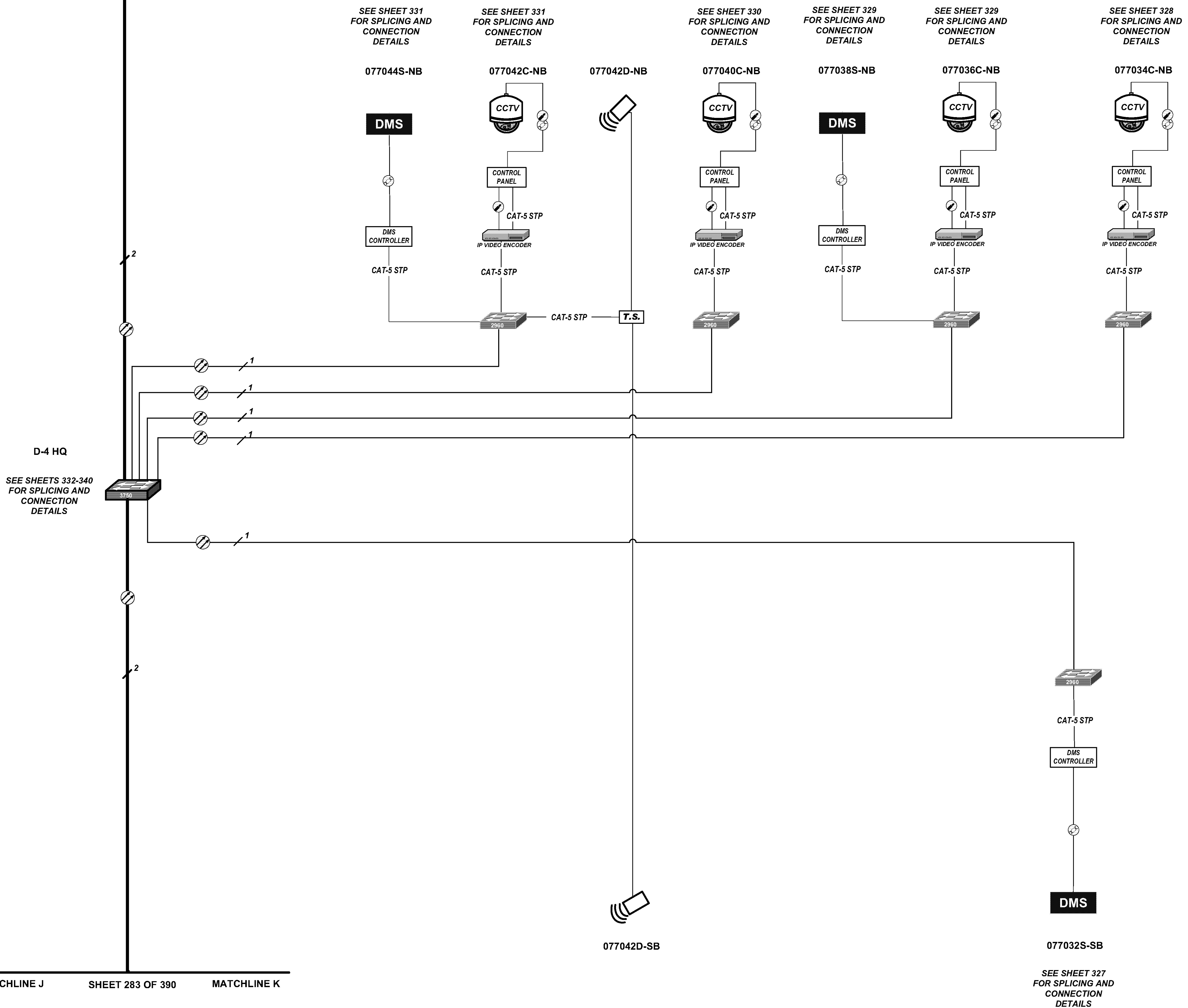
MATCHLINE D SHEET 276 OF 390 MATCHLINE D

MATCHLINE H SHEET 279 OF 390 MATCHLINE H

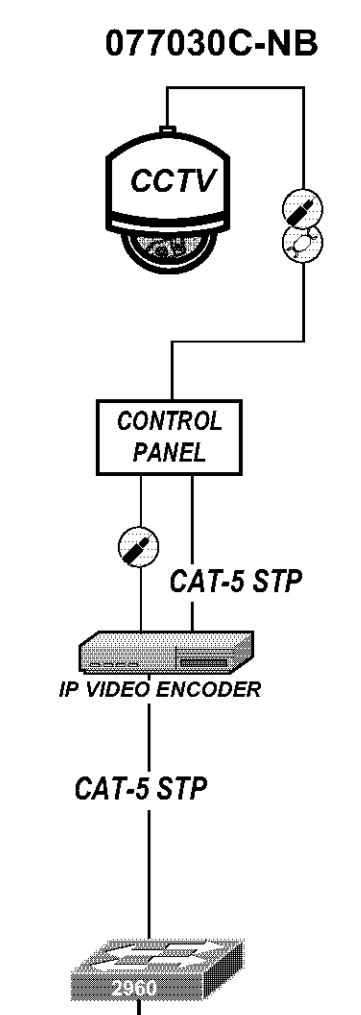
MATCHLINE I SHEET 284 OF 390 MATCHLINE I



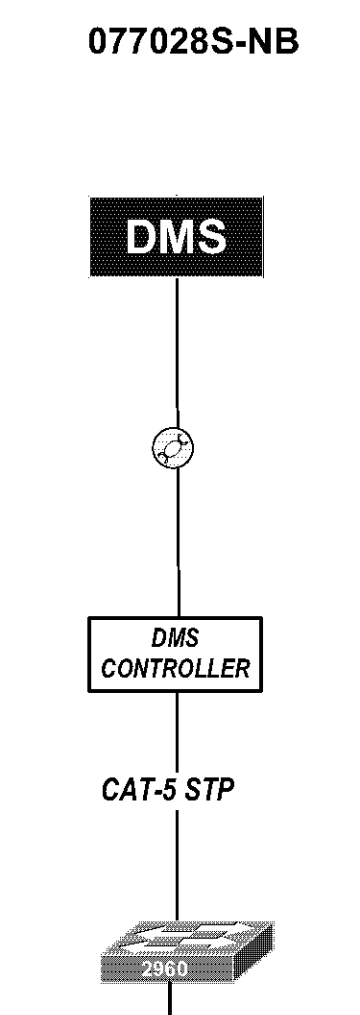




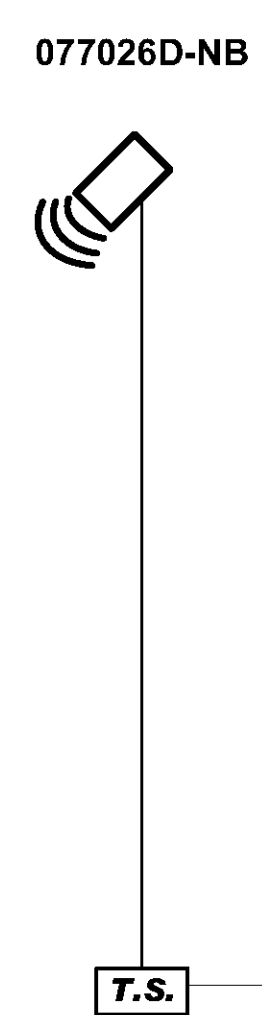
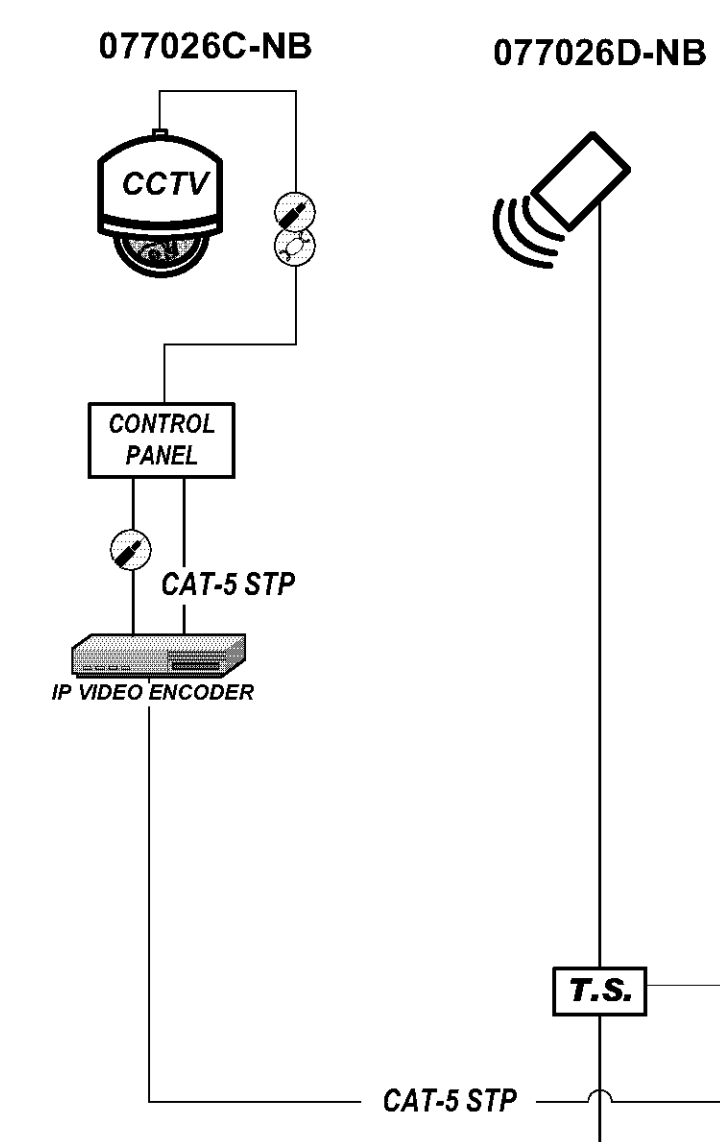
SEE SHEET 326  
FOR SPLICING AND  
CONNECTION  
DETAILS



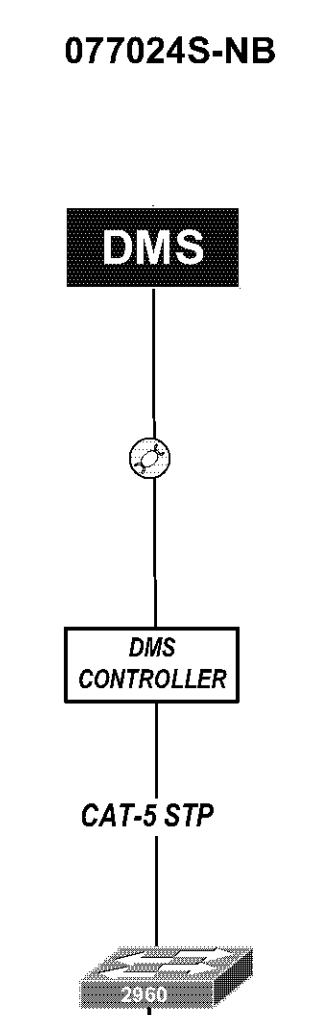
SEE SHEET 325  
FOR SPLICING AND  
CONNECTION  
DETAILS



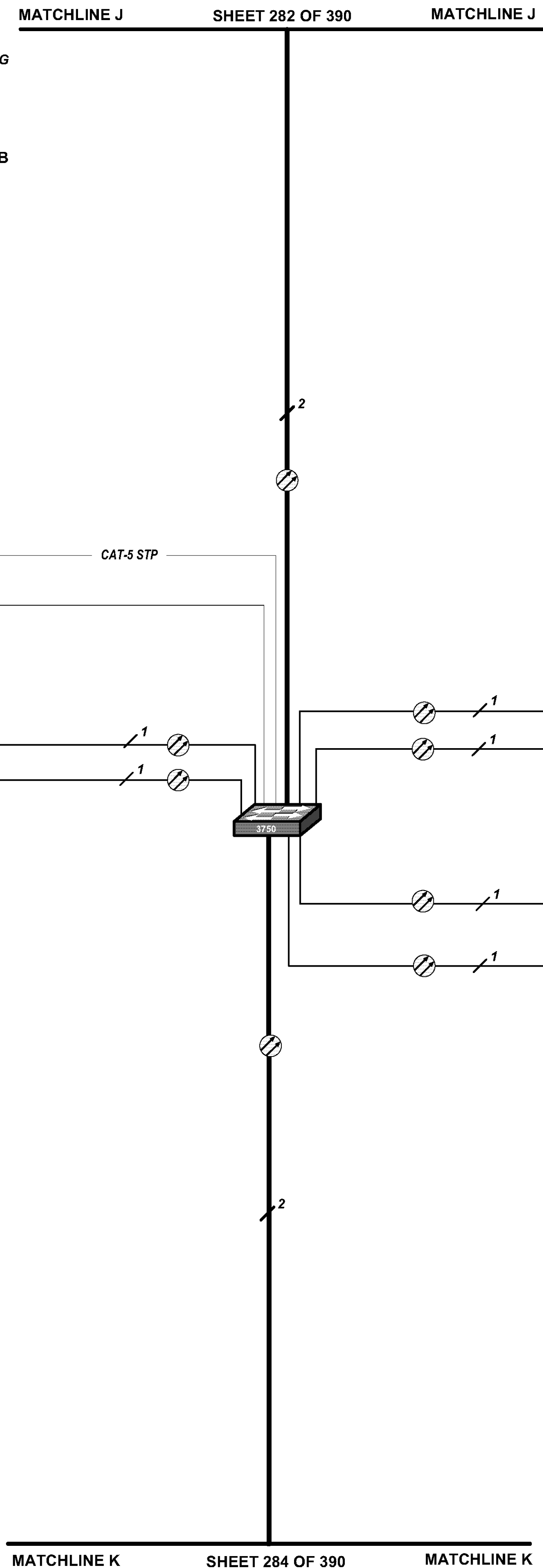
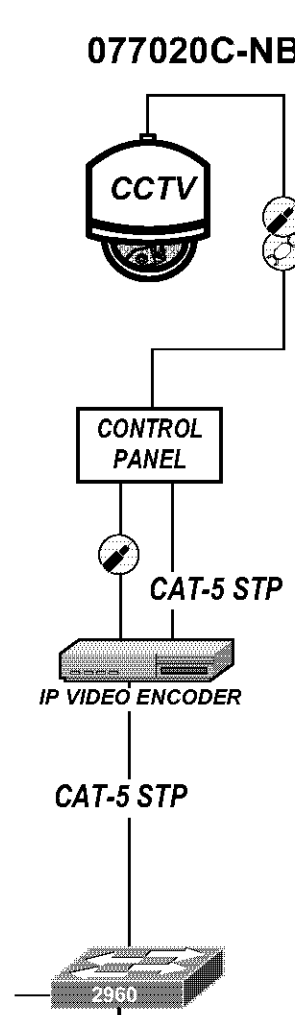
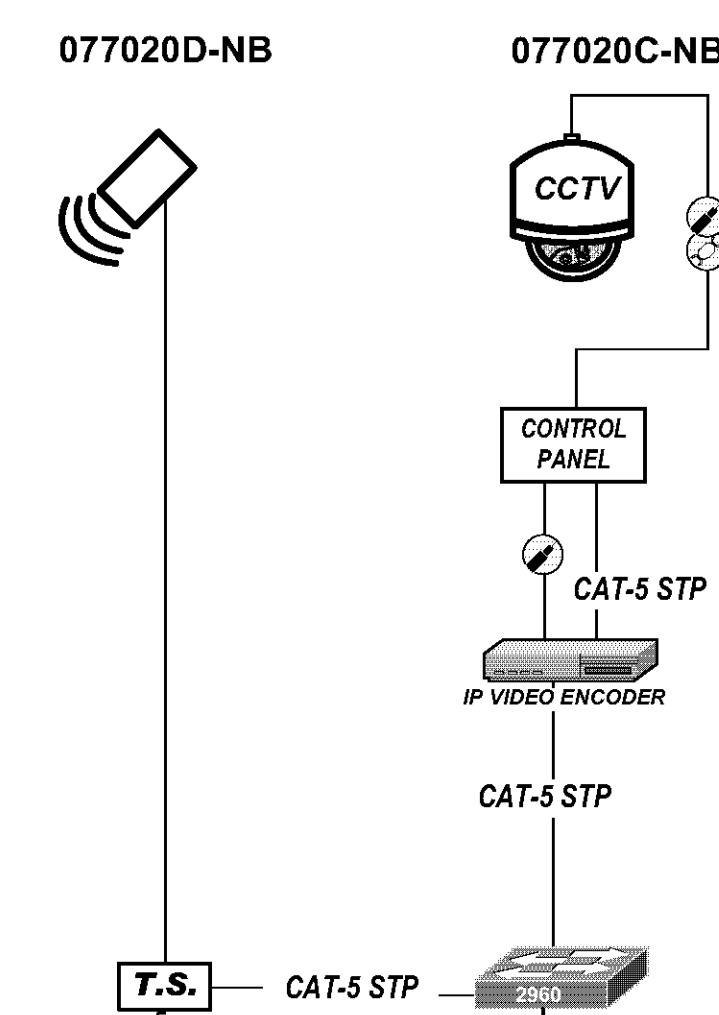
SEE SHEETS 322-324 FOR SPLICING  
AND CONNECTION  
DETAILS  
GREENBURG OUTPOST



SEE SHEET 321  
FOR SPLICING AND  
CONNECTION  
DETAILS



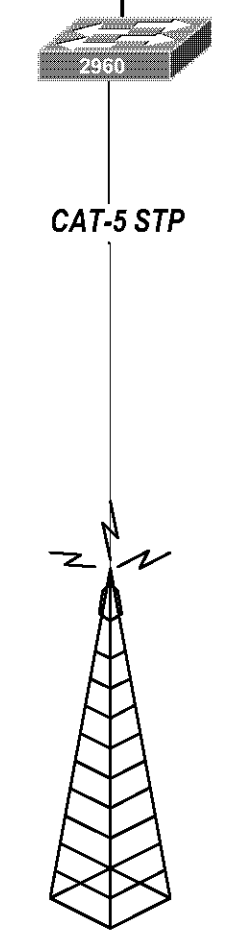
SEE SHEET 318  
FOR SPLICING AND  
CONNECTION  
DETAILS



077026D-SB

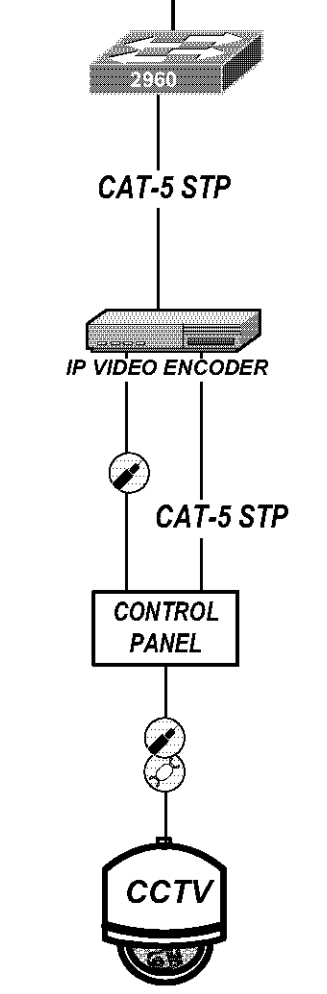
Highway Advisory Radio  
(Existing SB HAR Stark County)

SEE SHEET 320  
FOR SPLICING AND  
CONNECTION  
DETAILS

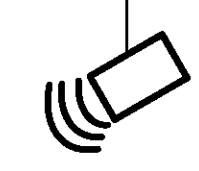


077022C-SB

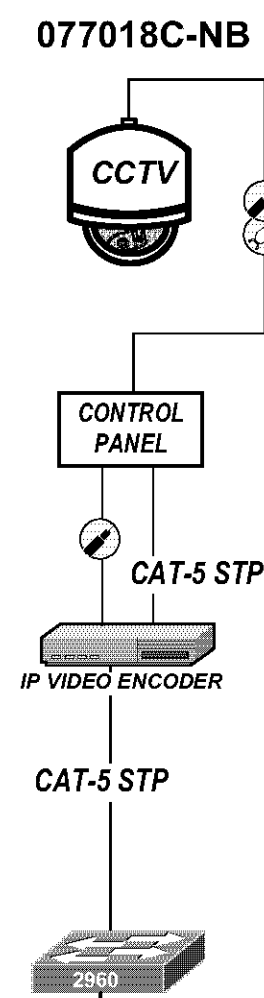
SEE SHEET 319  
FOR SPLICING AND  
CONNECTION  
DETAILS



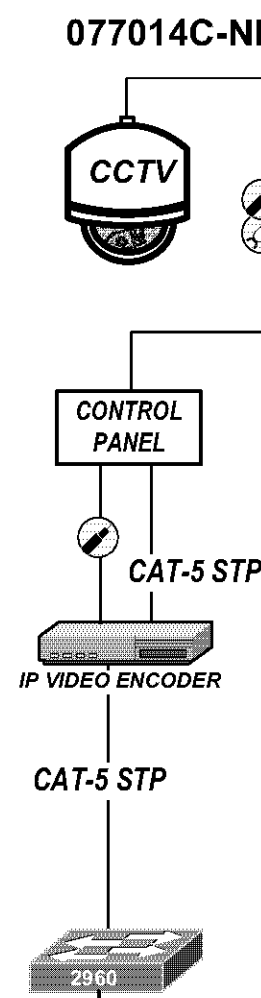
077020D-SB



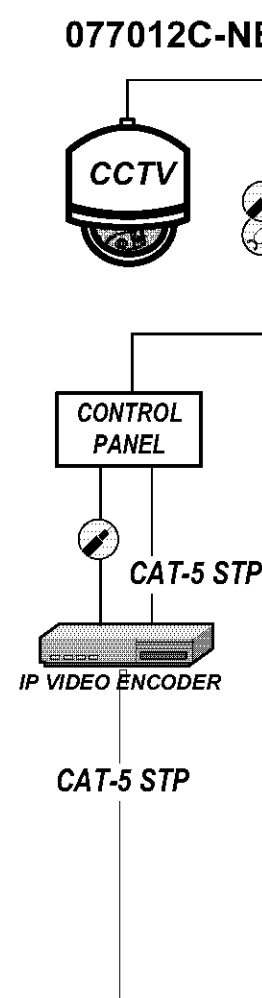
SEE SHEET 317  
FOR SPLICING AND  
CONNECTION  
DETAILS



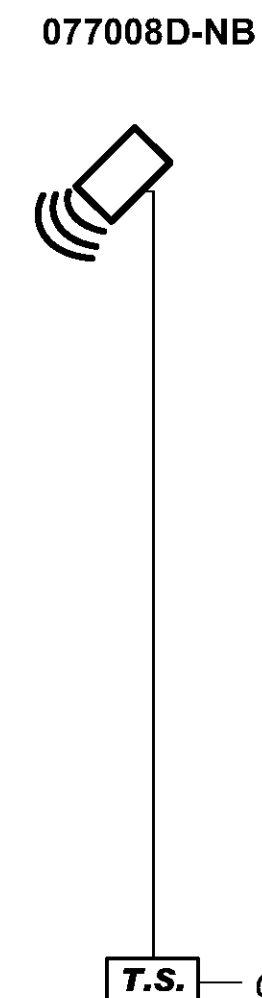
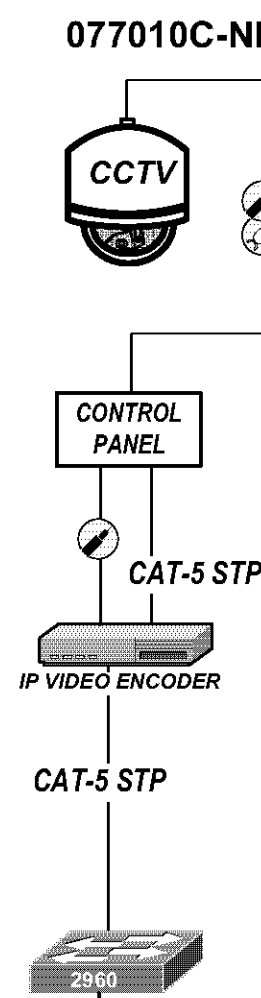
SEE SHEET 315  
FOR SPLICING AND  
CONNECTION  
DETAILS



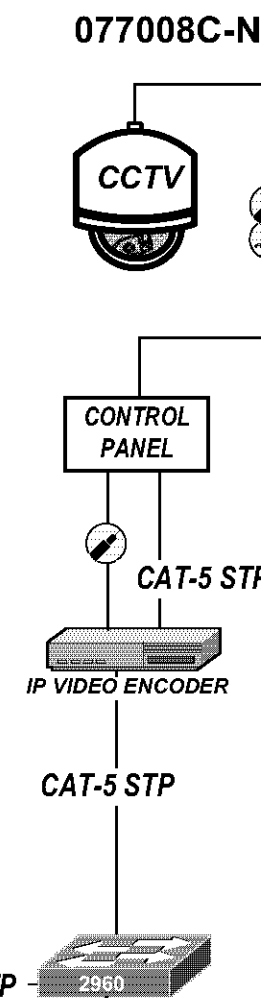
SEE SHEETS 312-314  
FOR SPLICING AND  
CONNECTION  
DETAILS



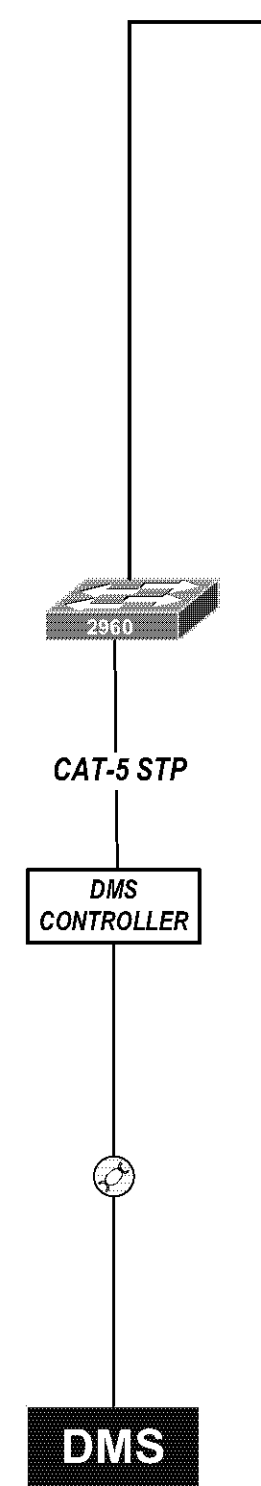
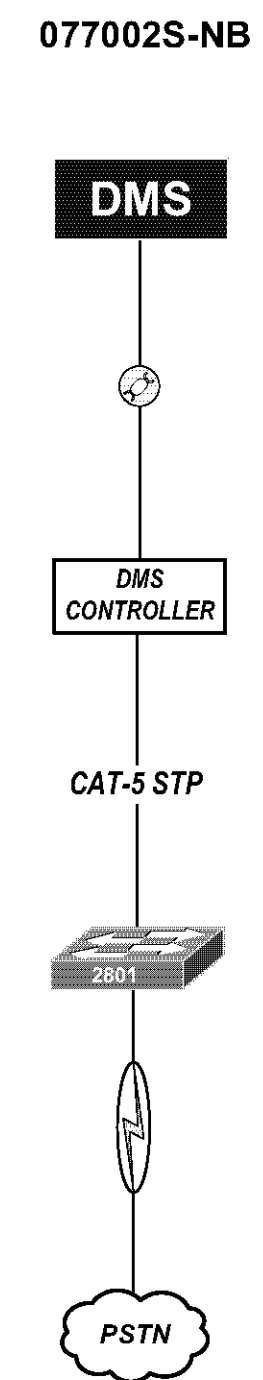
SEE SHEET 311  
FOR SPLICING AND  
CONNECTION  
DETAILS



SEE SHEET 310  
FOR SPLICING AND  
CONNECTION  
DETAILS

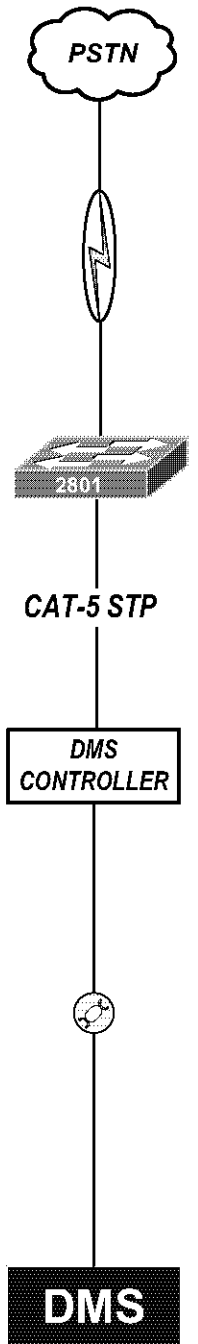


SEE SHEET 307  
FOR CONNECTION  
DETAILS



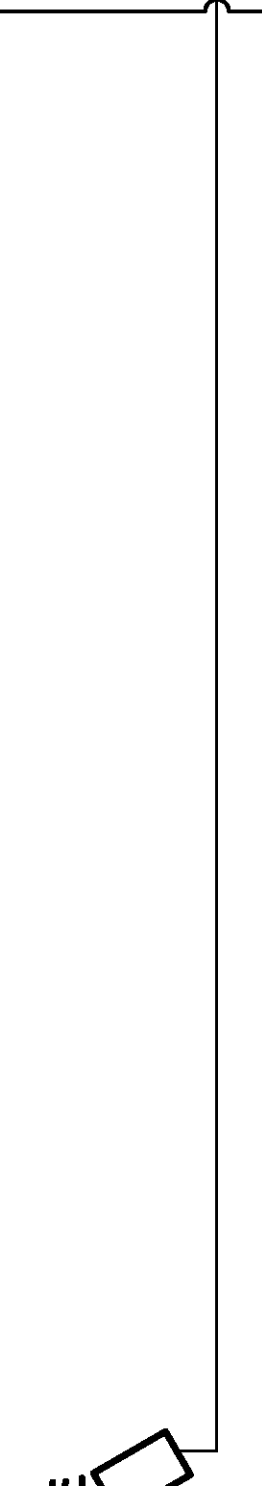
077016S-SB

SEE SHEET 316  
FOR SPLICING AND  
CONNECTION  
DETAILS

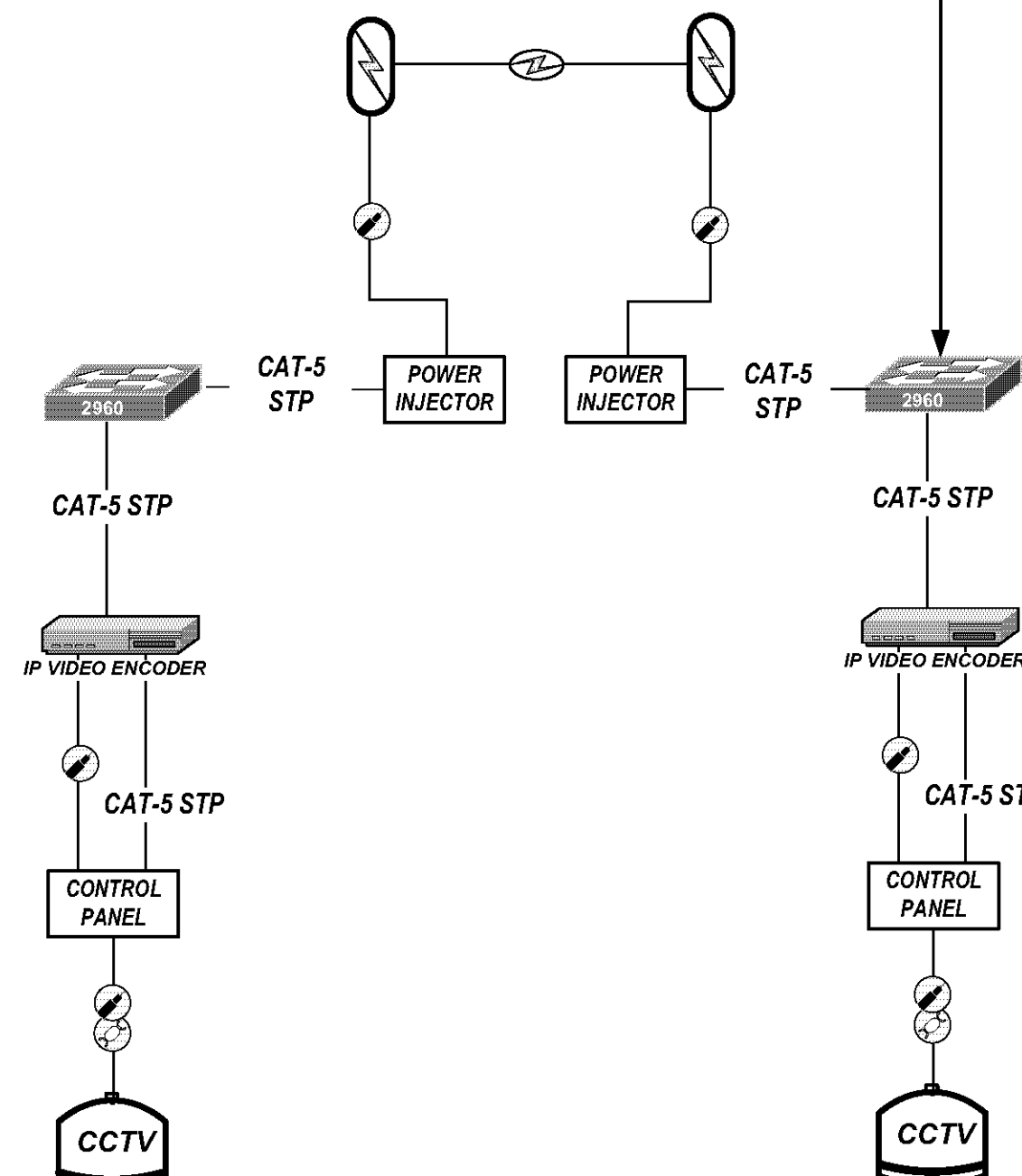


062002S-WB

SEE SHEET 390  
FOR CONNECTION  
DETAILS

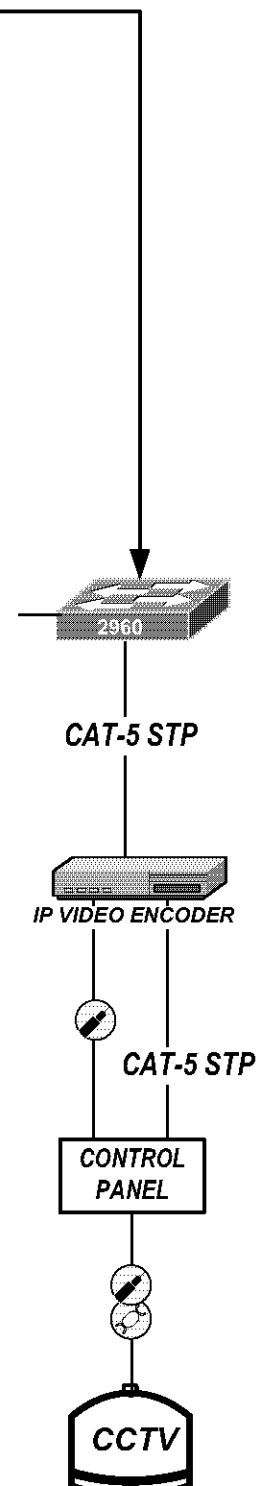


077008D-SB



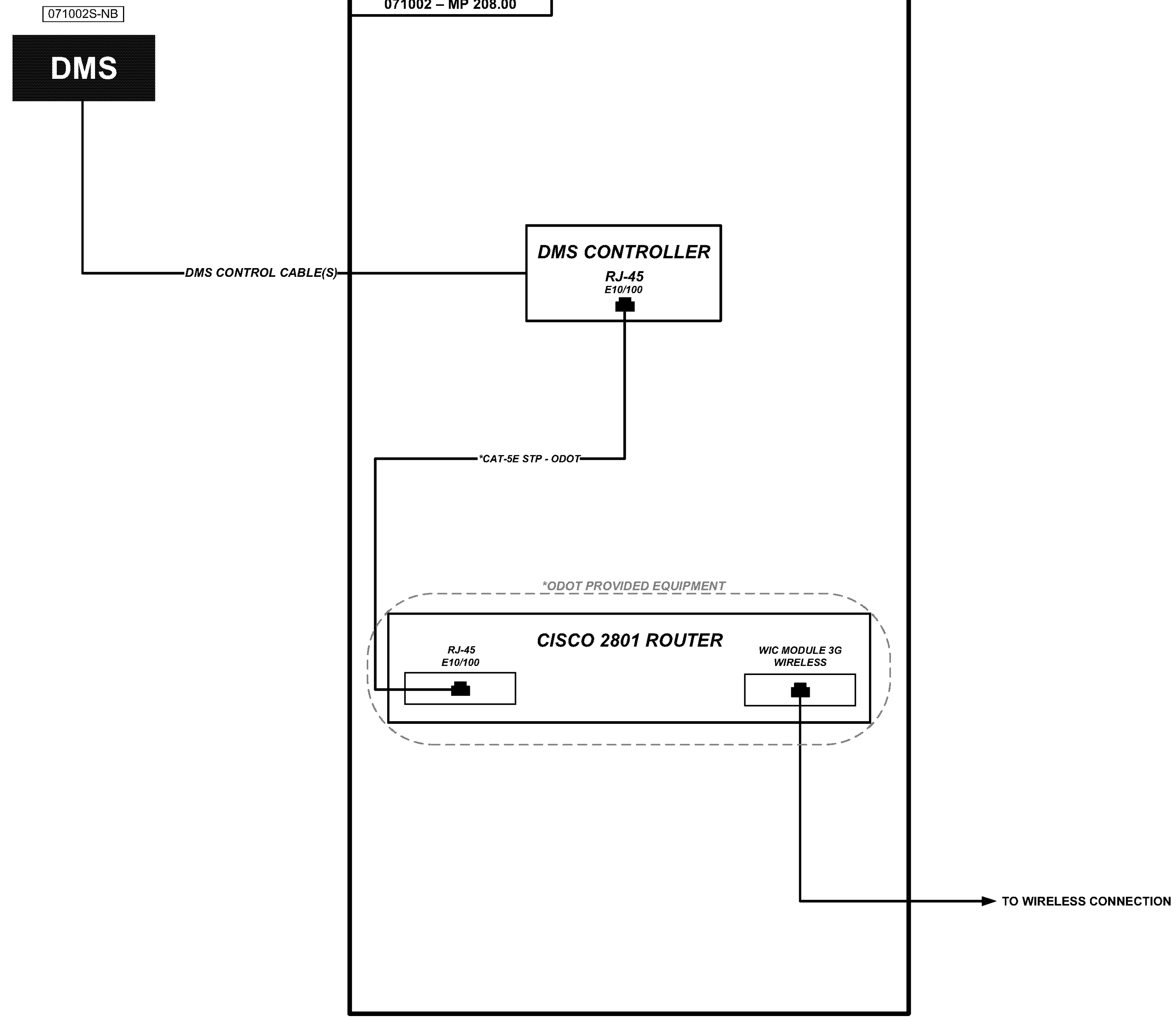
077006C-SB

SEE SHEET 309  
FOR SPLICING AND  
CONNECTION  
DETAILS



077004C-SB

SEE SHEET 308  
FOR SPLICING AND  
CONNECTION  
DETAILS



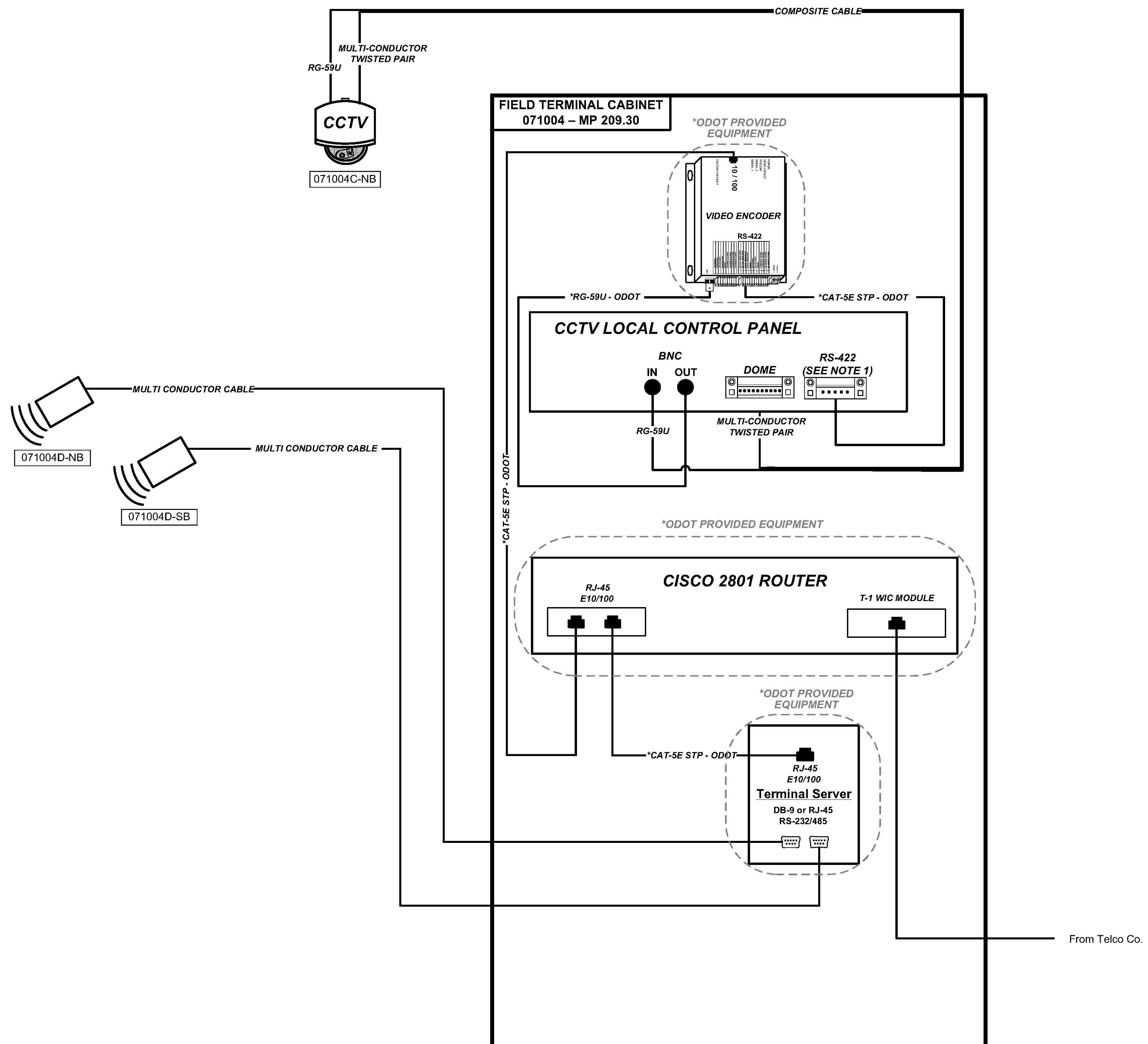
KEY	
	VEHICLE DETECTOR DEVICE NUMBER FOLLOWED BY 'D'
	CCTV CAMERA DEVICE NUMBER FOLLOWED BY 'C'
	DYNAMIC MESSAGE SIGN DEVICE NUMBER FOLLOWED BY 'S'
	EQUIPMENT CONNECTION FIBER OPTIC JUMPER
	FIBER OPTIC PIGTAIL
	EXISTING/PROPOSED BARE FIBER LEFT COILED IN SPLICE TRAY
	EXISTING/PROPOSED FUSION SPLICE
	CONNECTOR MODULE

- NOTES**
1. TERMINATE CAT-5E STP ON SCREW TERMINALS OF APPROPRIATE SERIAL CONNECTOR HOUSING.
  2. ODOT TO INSTALL ALL CISCO PRODUCTS, TERMINAL SERVERS, UPS, AND ALL ASSOCIATED CABLING THAT CONNECTS ODOT PROVIDED EQUIPMENT.




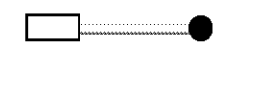
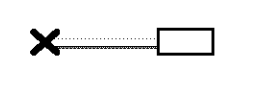


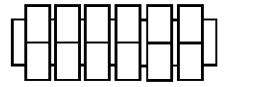
CALCULATED  
RM  
CHECKED  
JDG

WIRELESS-CDMA CONNECTION DETAIL DRAWING  
FIELD TERMINAL CABINET 071002

STA-SUM ITS






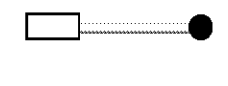
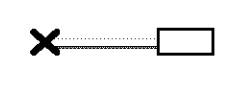


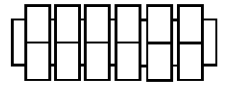
### KEY

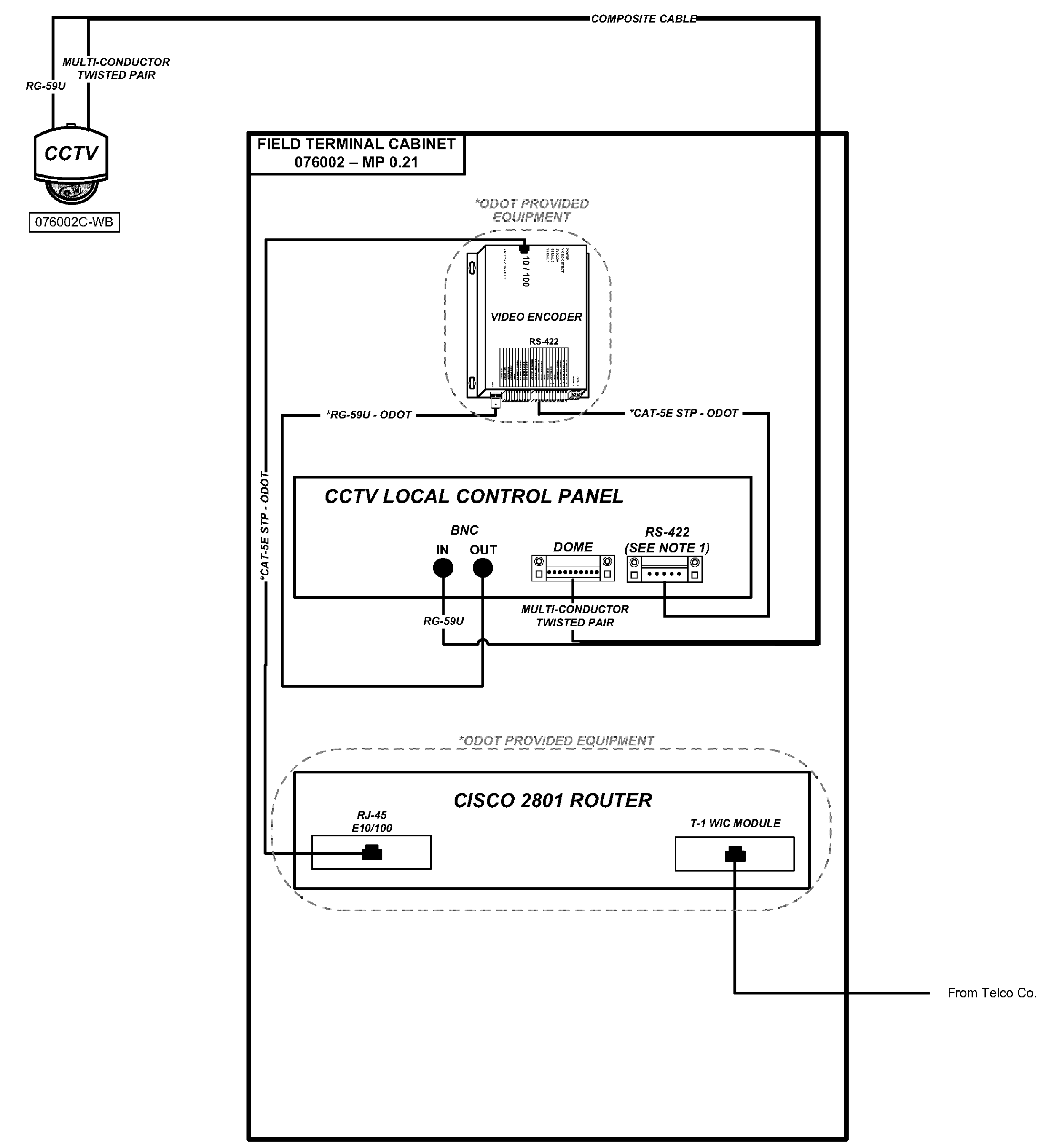
-  VEHICLE DETECTOR  
DEVICE NUMBER FOLLOWED BY 'D'
-  CCTV CAMERA  
DEVICE NUMBER FOLLOWED BY 'C'
-  DMS  
DYNAMIC MESSAGE SIGN  
DEVICE NUMBER FOLLOWED BY 'S'
-  EQUIPMENT CONNECTION  
FIBER OPTIC JUMPER
-  FIBER OPTIC PIGTAIL
-  EXISTING/PROPOSED  
BARE FIBER LEFT  
COILED IN SPLICE TRAY
-  EXISTING/PROPOSED  
FUSION SPLICE
-  CONNECTOR MODULE

- ### NOTES
1. TERMINATE CAT-5E STP ON SCREW TERMINALS OF APPROPRIATE SERIAL CONNECTOR HOUSING.
  2. ODOT TO INSTALL ALL CISCO PRODUCTS, TERMINAL SERVERS, UPS, AND ALL ASSOCIATED CABLING THAT CONNECTS ODOT PROVIDED EQUIPMENT.

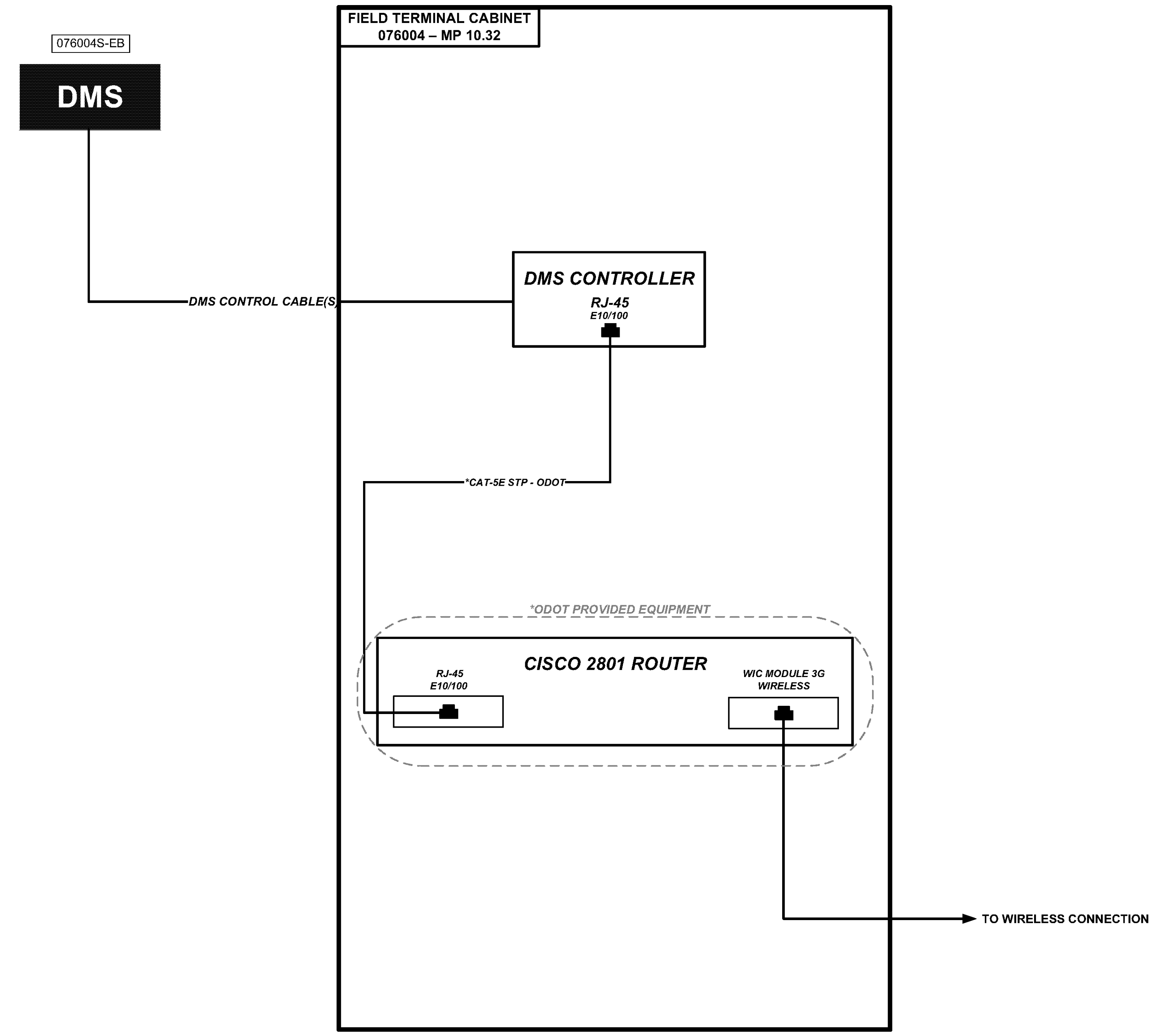


**KEY**




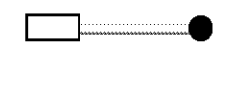
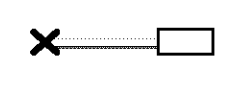


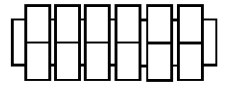
-  VEHICLE DETECTOR  
DEVICE NUMBER FOLLOWED BY 'D'
-  CCTV CAMERA  
DEVICE NUMBER FOLLOWED BY 'C'
-  DMS  
DYNAMIC MESSAGE SIGN  
DEVICE NUMBER FOLLOWED BY 'S'
-  EQUIPMENT CONNECTION  
FIBER OPTIC JUMPER
-  FIBER OPTIC PIGTAIL
-  EXISTING/PROPOSED  
BARE FIBER LEFT  
COILED IN SPLICE TRAY
-  EXISTING/PROPOSED  
FUSION SPLICE
-  CONNECTOR MODULE



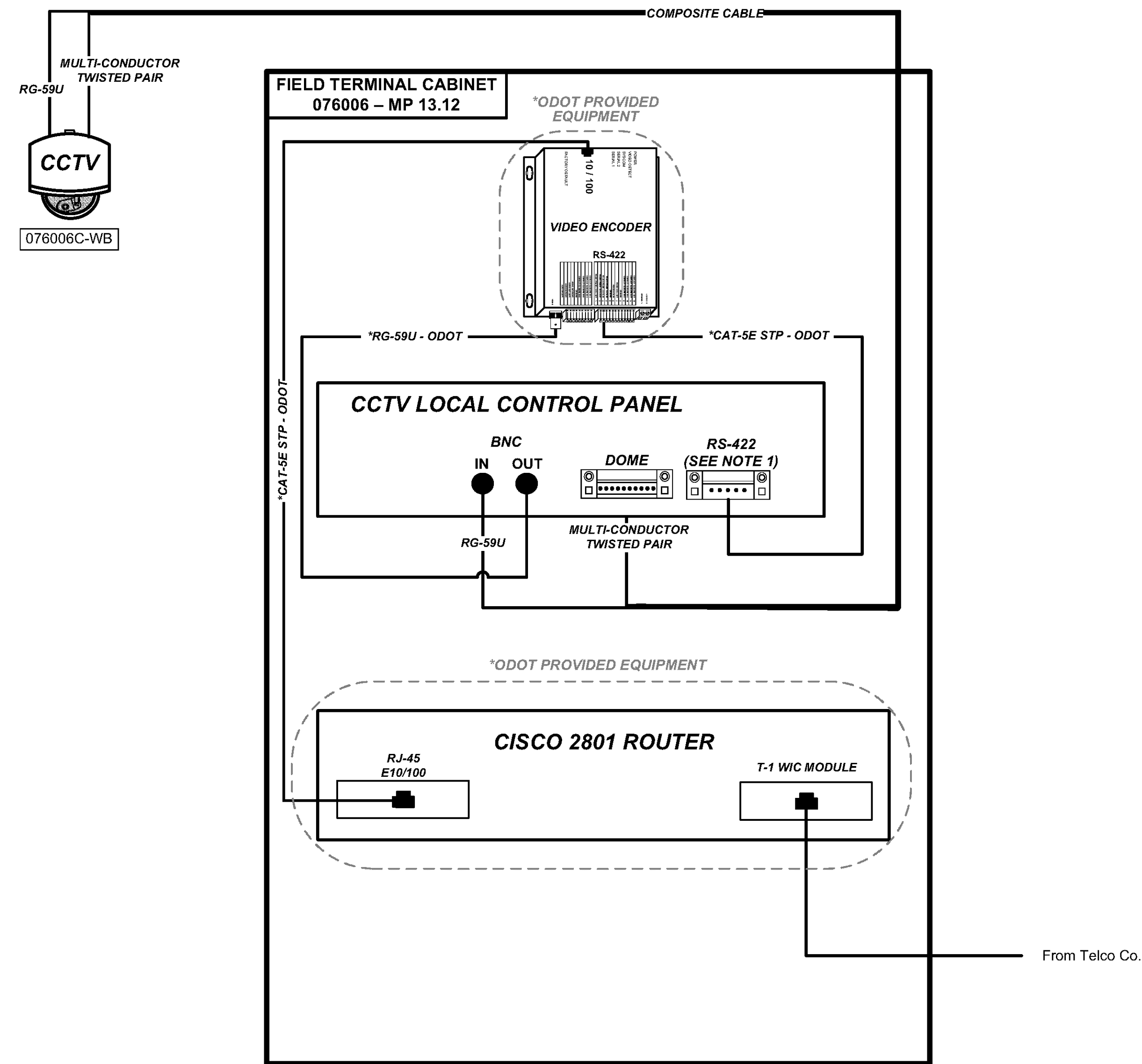
- NOTES**
1. TERMINATE CAT-5E STP ON SCREW TERMINALS OF APPROPRIATE SERIAL CONNECTOR HOUSING.
  2. ODOT TO INSTALL ALL CISCO PRODUCTS, TERMINAL SERVERS, UPS, AND ALL ASSOCIATED CABLING THAT CONNECTS ODOT PROVIDED EQUIPMENT.



### KEY

-  VEHICLE DETECTOR  
DEVICE NUMBER FOLLOWED BY 'D'
-  CCTV CAMERA  
DEVICE NUMBER FOLLOWED BY 'C'
-  DMS  
DYNAMIC MESSAGE SIGN  
DEVICE NUMBER FOLLOWED BY 'S'
-  EQUIPMENT CONNECTION  
FIBER OPTIC JUMPER
-  FIBER OPTIC PIGTAIL
-  EXISTING/PROPOSED  
BARE FIBER LEFT  
COILED IN SPLICE TRAY
-  EXISTING/PROPOSED  
FUSION SPLICE
-  CONNECTOR MODULE

- ### NOTES
1. TERMINATE CAT-5E STP ON SCREW TERMINALS OF APPROPRIATE SERIAL CONNECTOR HOUSING.
  2. ODOT TO INSTALL ALL CISCO PRODUCTS, TERMINAL SERVERS, UPS, AND ALL ASSOCIATED CABLING THAT CONNECTS ODOT PROVIDED EQUIPMENT.



KEY	
	VEHICLE DETECTOR DEVICE NUMBER FOLLOWED BY 'D'
	CCTV CAMERA DEVICE NUMBER FOLLOWED BY 'C'
	DYNAMIC MESSAGE SIGN DEVICE NUMBER FOLLOWED BY 'S'
	EQUIPMENT CONNECTION FIBER OPTIC JUMPER
	FIBER OPTIC PIGTAIL
	EXISTING/PROPOSED BARE FIBER LEFT COILED IN SPLICE TRAY
	EXISTING/PROPOSED FUSION SPLICE
	CONNECTOR MODULE




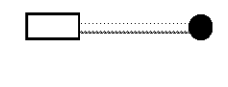
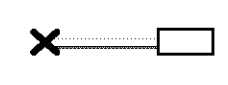


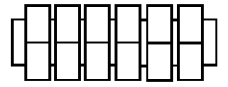
- NOTES**
1. TERMINATE CAT-5E STP ON SCREW TERMINALS OF APPROPRIATE SERIAL CONNECTOR HOUSING.
  2. ODOT TO INSTALL ALL CISCO PRODUCTS, TERMINAL SERVERS, UPS, AND ALL ASSOCIATED CABLING THAT CONNECTS ODOT PROVIDED EQUIPMENT.

CALCULATED  
RM  
CHECKED  
JDG

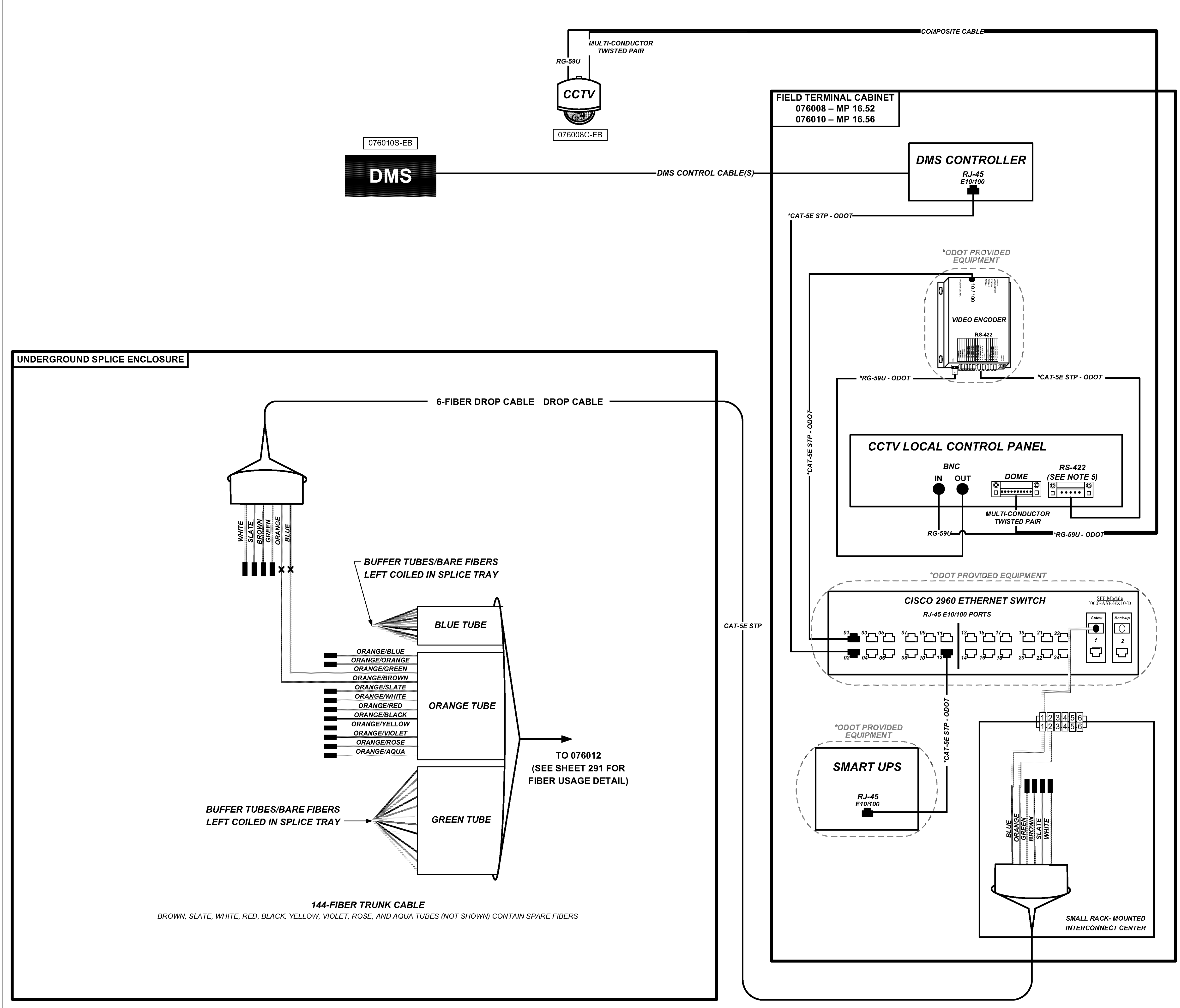
T-1 CONNECTION DETAIL DRAWING  
FIELD TERMINAL CABINET 076006

STA-SUM ITS

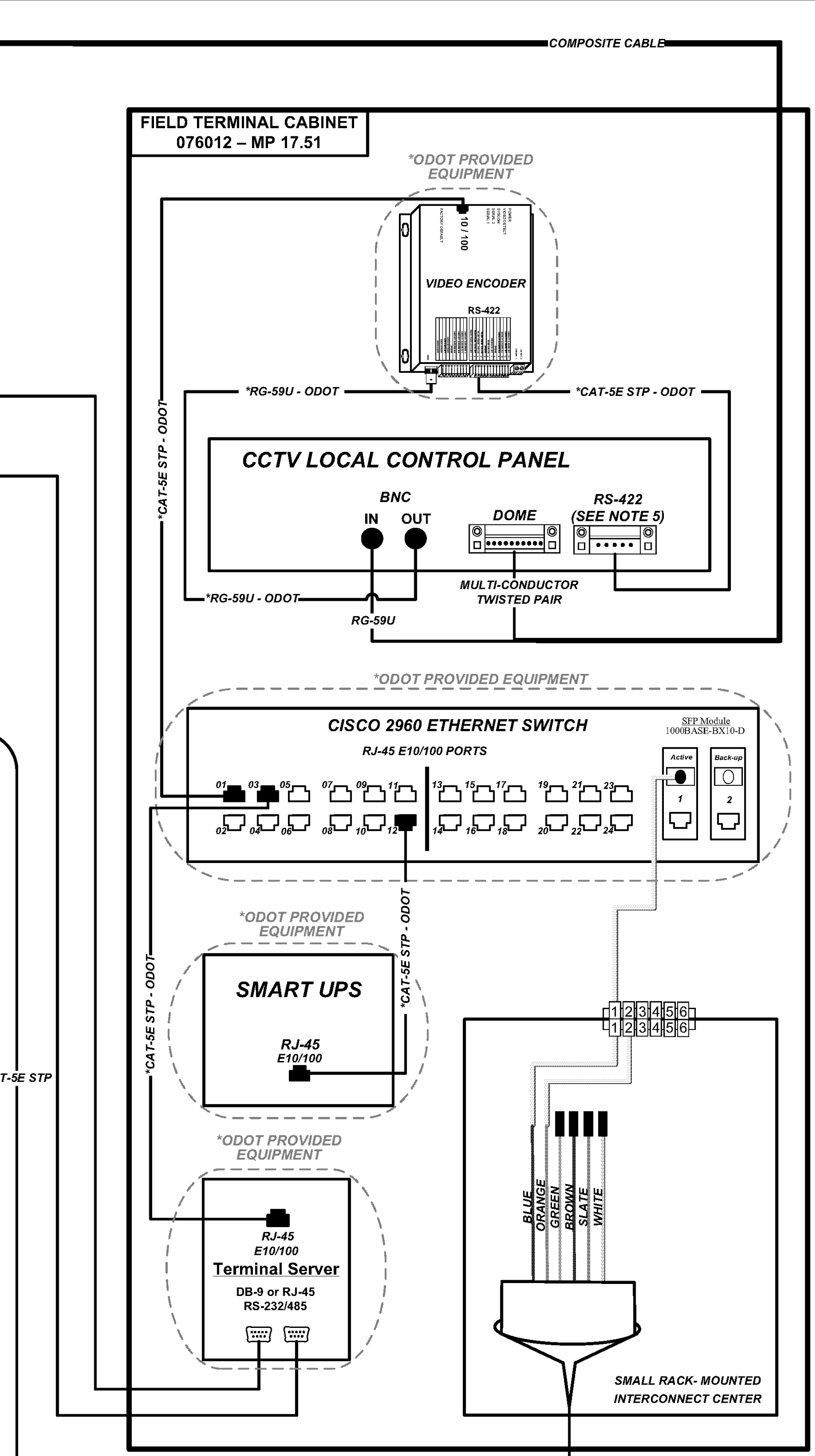
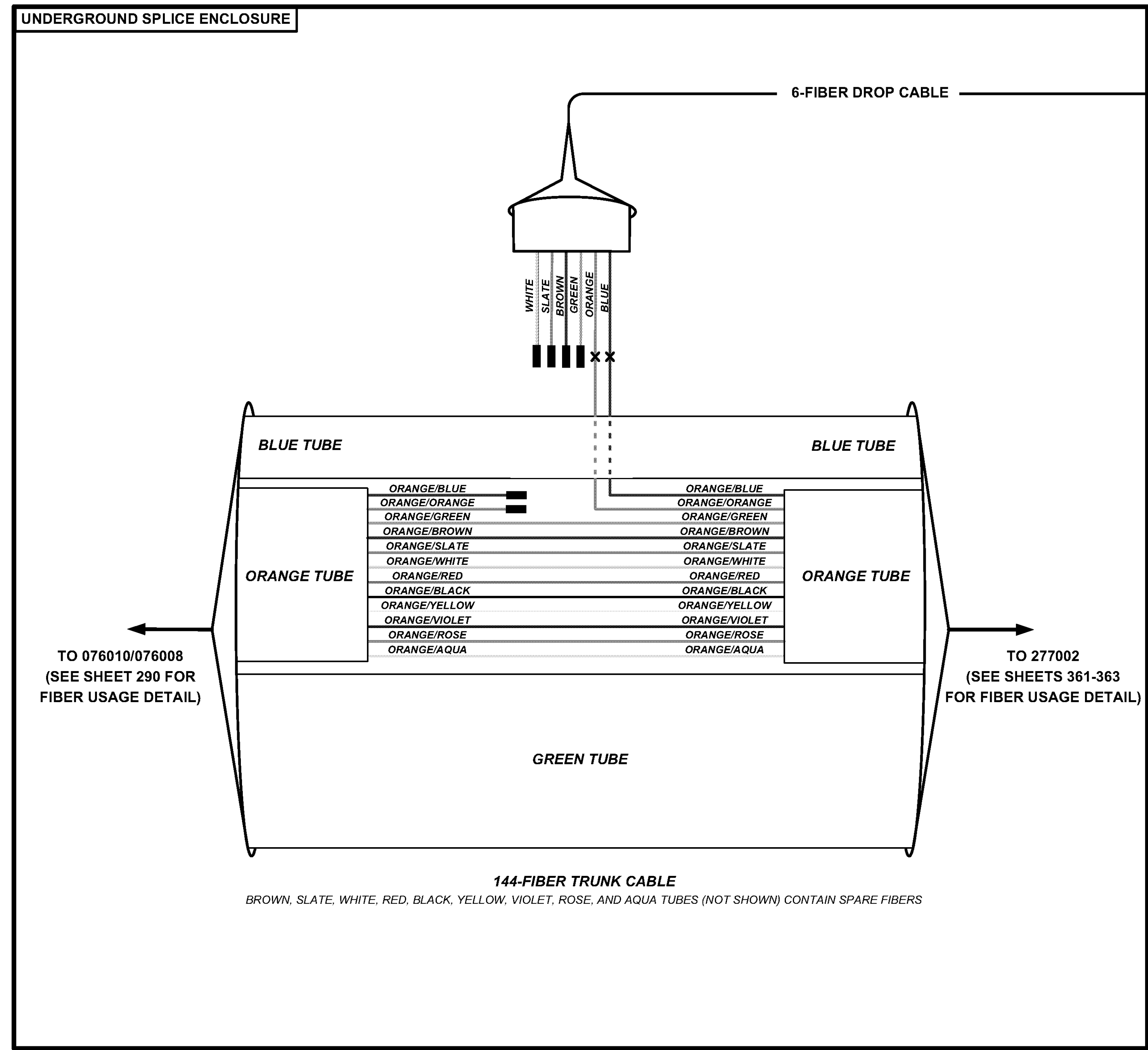
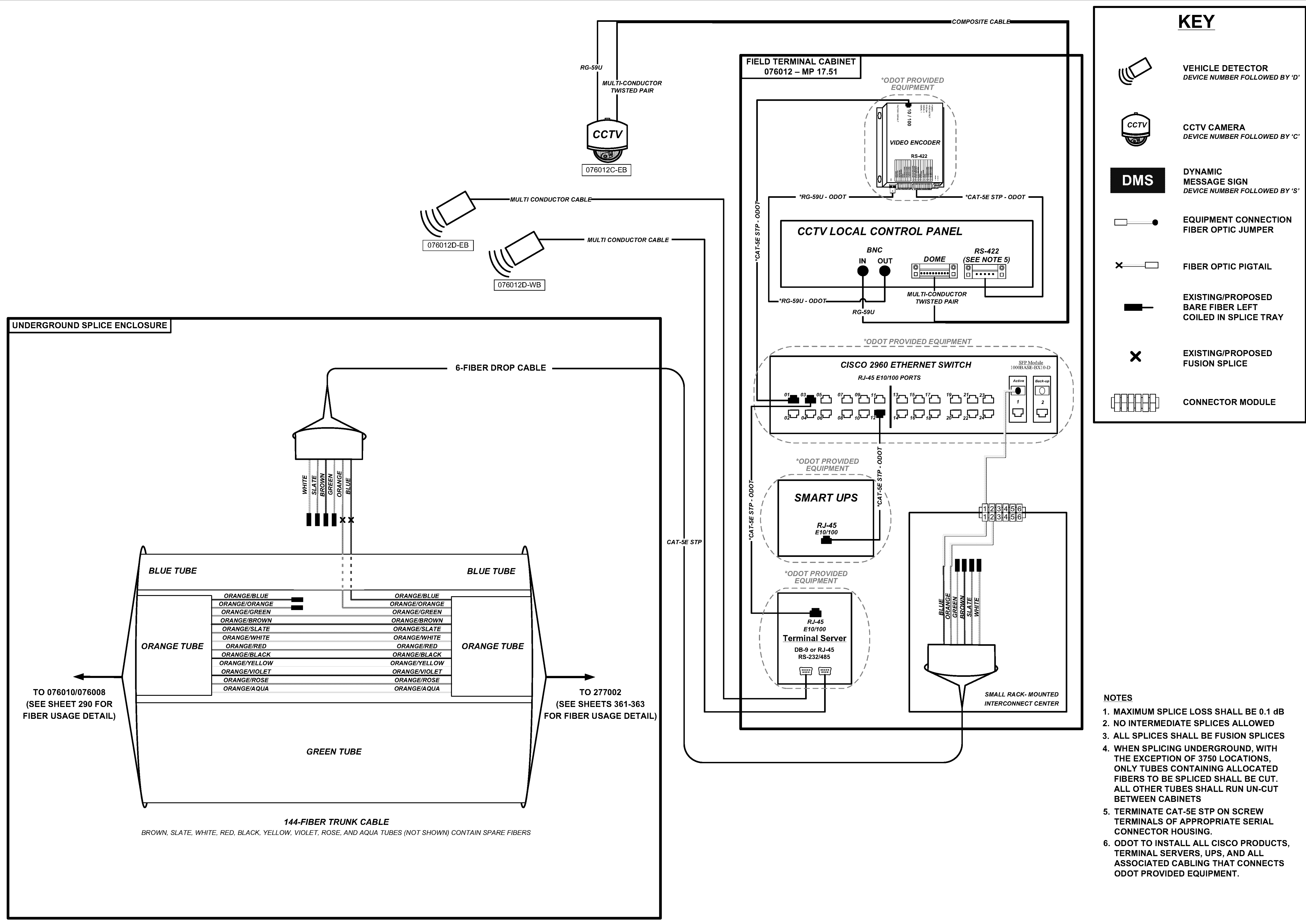
**KEY**

-  VEHICLE DETECTOR  
DEVICE NUMBER FOLLOWED BY 'D'
-  CCTV CAMERA  
DEVICE NUMBER FOLLOWED BY 'C'
-  DMS  
DYNAMIC MESSAGE SIGN  
DEVICE NUMBER FOLLOWED BY 'S'
-  EQUIPMENT CONNECTION  
FIBER OPTIC JUMPER
-  FIBER OPTIC PIGTAIL
-  EXISTING/PROPOSED  
BARE FIBER LEFT  
COILED IN SPLICE TRAY
-  EXISTING/PROPOSED  
FUSION SPLICE
-  CONNECTOR MODULE

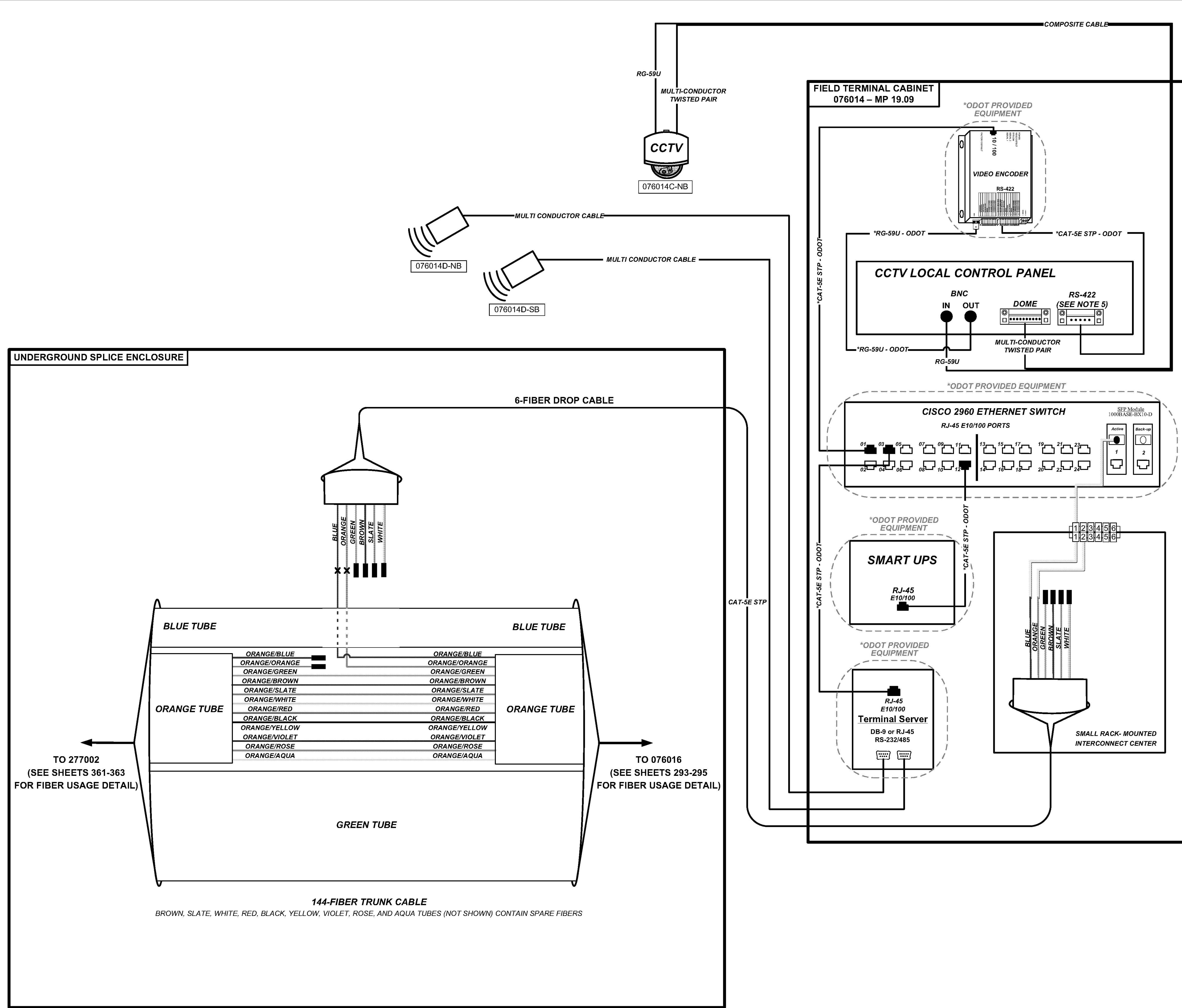
- NOTES**
1. MAXIMUM SPLICE LOSS SHALL BE 0.1 dB
  2. NO INTERMEDIATE SPLICES ALLOWED
  3. ALL SPLICES SHALL BE FUSION SPLICES
  4. WHEN SPLICING UNDERGROUND, WITH THE EXCEPTION OF 3750 LOCATIONS, ONLY TUBES CONTAINING ALLOCATED FIBERS TO BE SPLICED SHALL BE CUT. ALL OTHER TUBES SHALL RUN UN-CUT BETWEEN CABINETS
  5. TERMINATE CAT-5E STP ON SCREW TERMINALS OF APPROPRIATE SERIAL CONNECTOR HOUSING.
  6. ODOT TO INSTALL ALL CISCO PRODUCTS, TERMINAL SERVERS, UPS, AND ALL ASSOCIATED CABLING THAT CONNECTS ODOT PROVIDED EQUIPMENT.










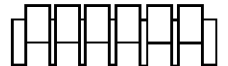
144-FIBER TRUNK CABLE  
BROWN, SLATE, WHITE, RED, BLACK, YELLOW, VIOLET, ROSE, AND AQUA TUBES (NOT SHOWN) CONTAIN SPARE FIBERS







### KEY

-  VEHICLE DETECTOR  
DEVICE NUMBER FOLLOWED BY 'D'
-  CCTV CAMERA  
DEVICE NUMBER FOLLOWED BY 'C'
-  DMS  
DYNAMIC MESSAGE SIGN  
DEVICE NUMBER FOLLOWED BY 'S'
-  EQUIPMENT CONNECTION  
FIBER OPTIC JUMPER
-  FIBER OPTIC PIGTAIL
-  EXISTING/PROPOSED  
BARE FIBER LEFT  
COILED IN SPLICE TRAY
-  EXISTING/PROPOSED  
FUSION SPLICE
-  CONNECTOR MODULE

- ### NOTES
1. MAXIMUM SPLICE LOSS SHALL BE 0.1 dB
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FIBER ASSIGNMENT DETAIL DRAWING WITH ACTUAL FIBER USAGE SHOWN  
FIELD TERMINAL CABINET 076014

STA-SUM ITS

144-FIBER TRUNK CABLE

LAYER 3 - 077068 TX	BLUE/BLUE	1
LAYER 3 - 077068 RX	BLUE/ORANGE	2
SPARE	BLUE/GREEN	3
SPARE	BLUE/BROWN	4
SPARE	BLUE/SLATE	5
SPARE	BLUE/WHITE	6
SPARE	BLUE/RED	7
SPARE	BLUE/BLACK	8
SPARE	BLUE/YELLOW	9
SPARE	BLUE/VIOLET	10
SPARE	BLUE/ROSE	11
SPARE	BLUE/AQUA	12

BLUE

LAYER 2 - 077054 ACTIVE TX/RX	ORANGE/BLUE	1
LAYER 2 - 077054 BACK-UP TX/RX	ORANGE/ORANGE	2
LAYER 2 - 077056 ACTIVE TX/RX	ORANGE/GREEN	3
LAYER 2 - 077056 BACK-UP TX/RX	ORANGE/BROWN	4
LAYER 2 - 077058 ACTIVE TX/RX	ORANGE/SLATE	5
LAYER 2 - 077058 BACK-UP TX/RX	ORANGE/WHITE	6
LAYER 2 - 077060 ACTIVE TX/RX	ORANGE/RED	7
LAYER 2 - 077060 BACK-UP TX/RX	ORANGE/BLACK	8
SPARE	ORANGE/YELLOW	9
SPARE	ORANGE/VIOLET	10
SPARE	ORANGE/ROSE	11
SPARE	ORANGE/AQUA	12

ORANGE

SPARE	GREEN/BLUE	1
SPARE	GREEN/ORANGE	2
SPARE	GREEN/GREEN	3
SPARE	GREEN/BROWN	4
SPARE	GREEN/SLATE	5
SPARE	GREEN/WHITE	6
SPARE	GREEN/RED	7
SPARE	GREEN/BLACK	8
SPARE	GREEN/YELLOW	9
SPARE	GREEN/VIOLET	10
SPARE	GREEN/ROSE	11
SPARE	GREEN/AQUA	12

GREEN

TO 076016  
(SEE SHEET 295 FOR  
CABINET DETAIL)

144-FIBER TRUNK CABLE

1	BLUE/BLUE	LAYER 3 - 008002 TX
2	BLUE/ORANGE	LAYER 3 - 008002 RX
3	BLUE/GREEN	SPARE
4	BLUE/BROWN	SPARE
5	BLUE/SLATE	SPARE
6	BLUE/WHITE	SPARE
7	BLUE/RED	SPARE
8	BLUE/BLACK	SPARE
9	BLUE/YELLOW	SPARE
10	BLUE/VIOLET	SPARE
11	BLUE/ROSE	SPARE
12	BLUE/AQUA	SPARE

BLUE

1	ORANGE/BLUE	LAYER 2 - 076018 ACTIVE TX/RX
2	ORANGE/ORANGE	LAYER 2 - 076018 BACK-UP TX/RX
3	ORANGE/GREEN	SPARE
4	ORANGE/BROWN	SPARE
5	ORANGE/SLATE	SPARE
6	ORANGE/WHITE	SPARE
7	ORANGE/RED	SPARE
8	ORANGE/BLACK	SPARE
9	ORANGE/YELLOW	SPARE
10	ORANGE/VIOLET	SPARE
11	ORANGE/ROSE	SPARE
12	ORANGE/AQUA	SPARE

ORANGE

1	GREEN/BLUE	SPARE
2	GREEN/ORANGE	SPARE
3	GREEN/GREEN	SPARE
4	GREEN/BROWN	SPARE
5	GREEN/SLATE	SPARE
6	GREEN/WHITE	SPARE
7	GREEN/RED	SPARE
8	GREEN/BLACK	SPARE
9	GREEN/YELLOW	SPARE
10	GREEN/VIOLET	SPARE
11	GREEN/ROSE	SPARE
12	GREEN/AQUA	SPARE

GREEN

TO 076018  
(SEE SHEET 296 FOR  
CABINET DETAIL)

144-FIBER TRUNK CABLE

LAYER 3 - 277002 TX	BLUE/BLUE	1
LAYER 3 - 277002 RX	BLUE/ORANGE	2
SPARE	BLUE/GREEN	3
SPARE	BLUE/BROWN	4
SPARE	BLUE/SLATE	5
SPARE	BLUE/WHITE	6
SPARE	BLUE/RED	7
SPARE	BLUE/BLACK	8
SPARE	BLUE/YELLOW	9
SPARE	BLUE/VIOLET	10
SPARE	BLUE/ROSE	11
SPARE	BLUE/AQUA	12

BLUE

LAYER 2 - 076014 ACTIVE TX/RX	ORANGE/BLUE	1
LAYER 2 - 076014 BACK-UP TX/RX	ORANGE/ORANGE	2
SPARE	ORANGE/GREEN	3
SPARE	ORANGE/BROWN	4
SPARE	ORANGE/SLATE	5
SPARE	ORANGE/WHITE	6
SPARE	ORANGE/RED	7
SPARE	ORANGE/BLACK	8
SPARE	ORANGE/YELLOW	9
SPARE	ORANGE/VIOLET	10
SPARE	ORANGE/ROSE	11
SPARE	ORANGE/AQUA	12

ORANGE

SPARE	GREEN/BLUE	1
SPARE	GREEN/ORANGE	2
SPARE	GREEN/GREEN	3
SPARE	GREEN/BROWN	4
SPARE	GREEN/SLATE	5
SPARE	GREEN/WHITE	6
SPARE	GREEN/RED	7
SPARE	GREEN/BLACK	8
SPARE	GREEN/YELLOW	9
SPARE	GREEN/VIOLET	10
SPARE	GREEN/ROSE	11
SPARE	GREEN/AQUA	12

GREEN




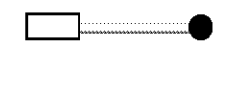
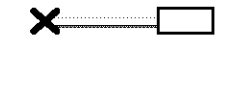


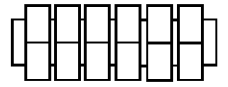
TO 076014  
(SEE SHEET 292 FOR  
CABINET DETAIL)

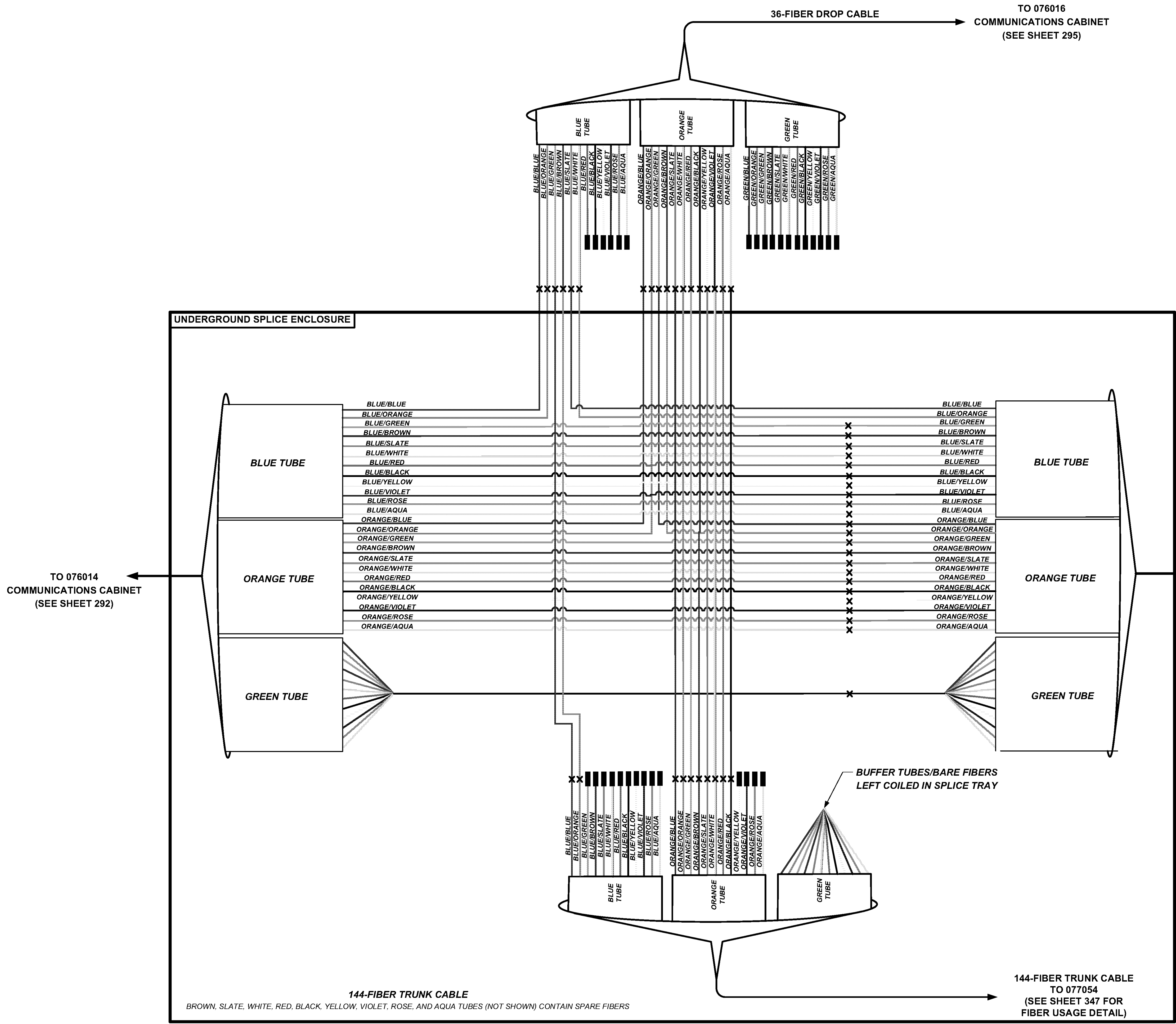
TO 077054  
(SEE SHEET 347 FOR  
CABINET DETAIL)

NOTES

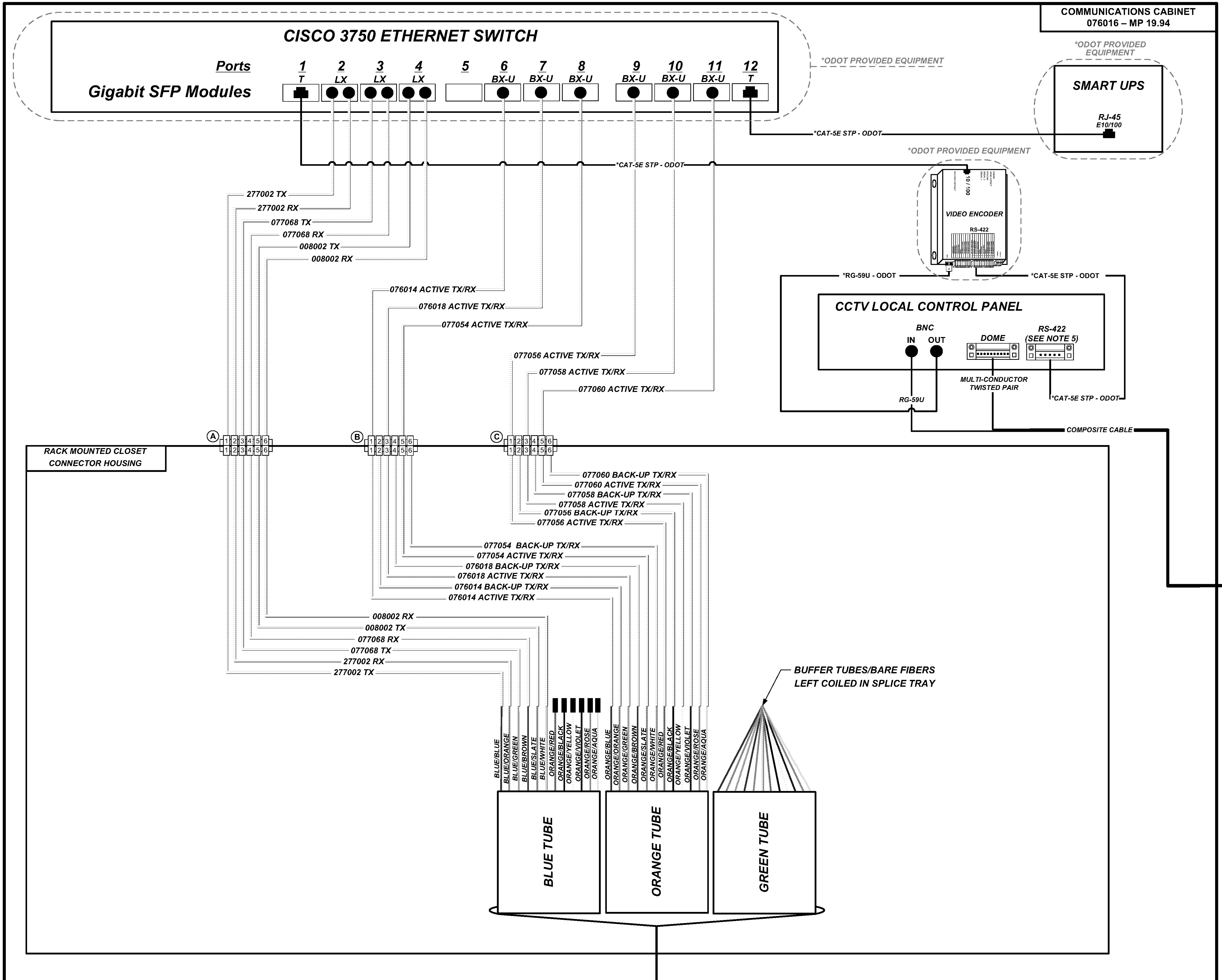
1. FIBERS NOT SHOWN SHALL ARE TO BE SPARE UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THIS INCLUDES FIBERS IN THE BROWN, SLATE, WHITE, RED, BLACK, YELLOW, VIOLET, ROSE, AND AQUA TUBES

### KEY

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-  CCTV CAMERA  
DEVICE NUMBER FOLLOWED BY 'C'
-  DMS  
DYNAMIC MESSAGE SIGN  
DEVICE NUMBER FOLLOWED BY 'S'
-  EQUIPMENT CONNECTION  
FIBER OPTIC JUMPER
-  FIBER OPTIC PIGTAIL
-  EXISTING/PROPOSED  
BARE FIBER LEFT  
COILED IN SPLICE TRAY
-  EXISTING/PROPOSED  
FUSION SPLICE
-  CONNECTOR MODULE



- #### NOTES
1. MAXIMUM SPLICE LOSS SHALL BE 0.1 dB
  2. NO INTERMEDIATE SPLICES ALLOWED
  3. ALL SPLICES SHALL BE FUSION SPLICES
  4. WHEN SPLICING UNDERGROUND, WITH THE EXCEPTION OF 3750 LOCATIONS, ONLY TUBES CONTAINING ALLOCATED FIBERS TO BE SPLICED SHALL BE CUT. ALL OTHER TUBES SHALL RUN UN-CUT BETWEEN CABINETS
  5. FIBERS NOT SHOWN SHALL BE SPLICED THROUGH TO THE SAME COLORS OR AS DIRECTED BY THE ENGINEER IN THE FIELD.



**KEY**

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DEVICE NUMBER FOLLOWED BY 'D'
- CCTV CAMERA  
DEVICE NUMBER FOLLOWED BY 'C'
- DMS  
DYNAMIC MESSAGE SIGN  
DEVICE NUMBER FOLLOWED BY 'S'
- EQUIPMENT CONNECTION FIBER OPTIC JUMPER
- FIBER OPTIC PIGTAIL
- EXISTING/PROPOSED BARE FIBER LEFT COILED IN SPLICE TRAY
- EXISTING/PROPOSED FUSION SPLICE
- CONNECTOR MODULE




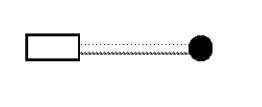
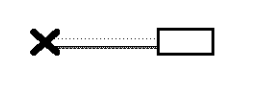


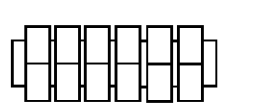
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FIBER ASSIGNMENT DETAIL DRAWING WITH ACTUAL FIBER USAGE SHOWN  
COMMUNICATIONS CABINET 076016

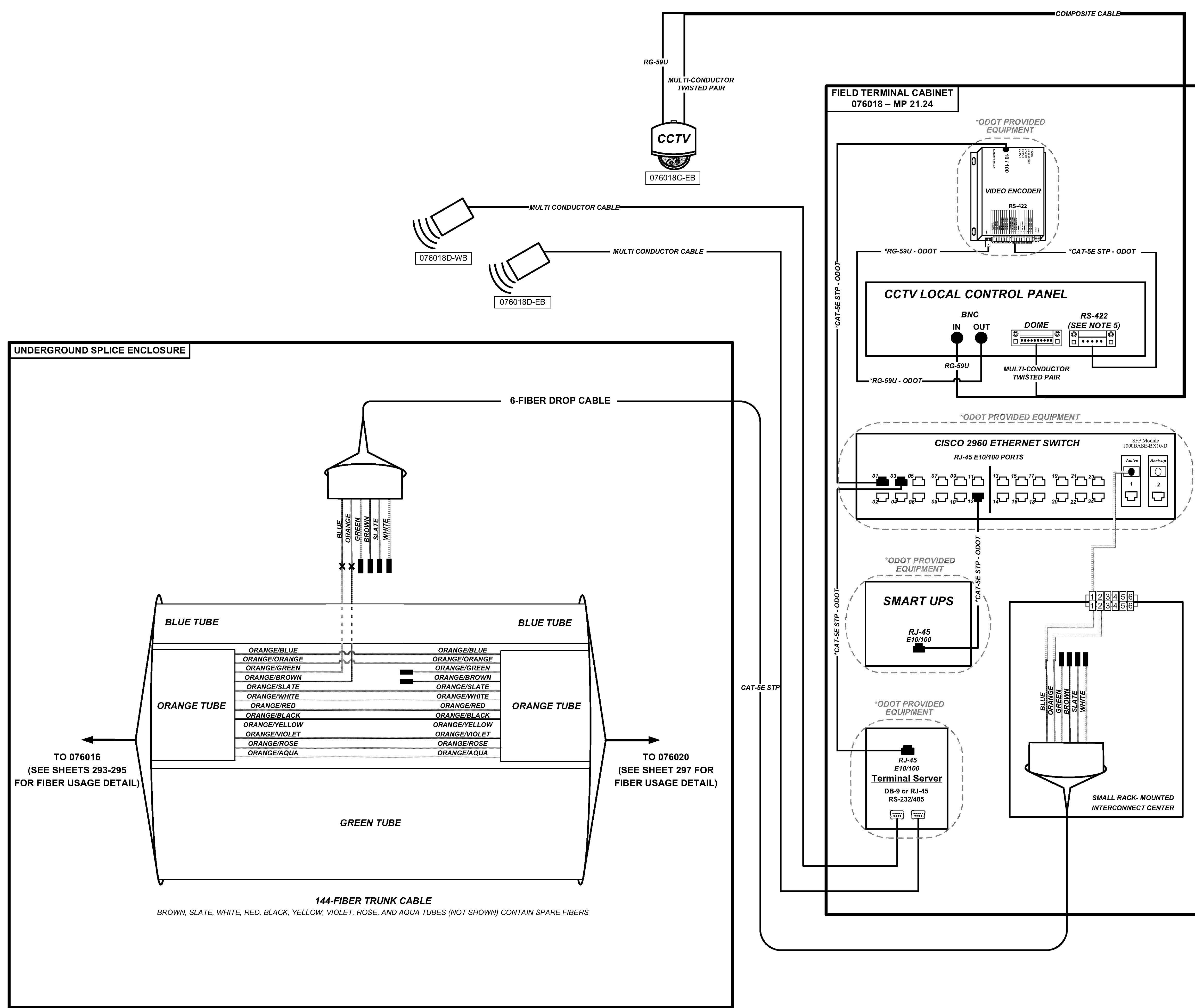
STA-SUM ITS

36-FIBER DROP CABLE TO 076016 UNDERGROUND SPLICE CLOSURE

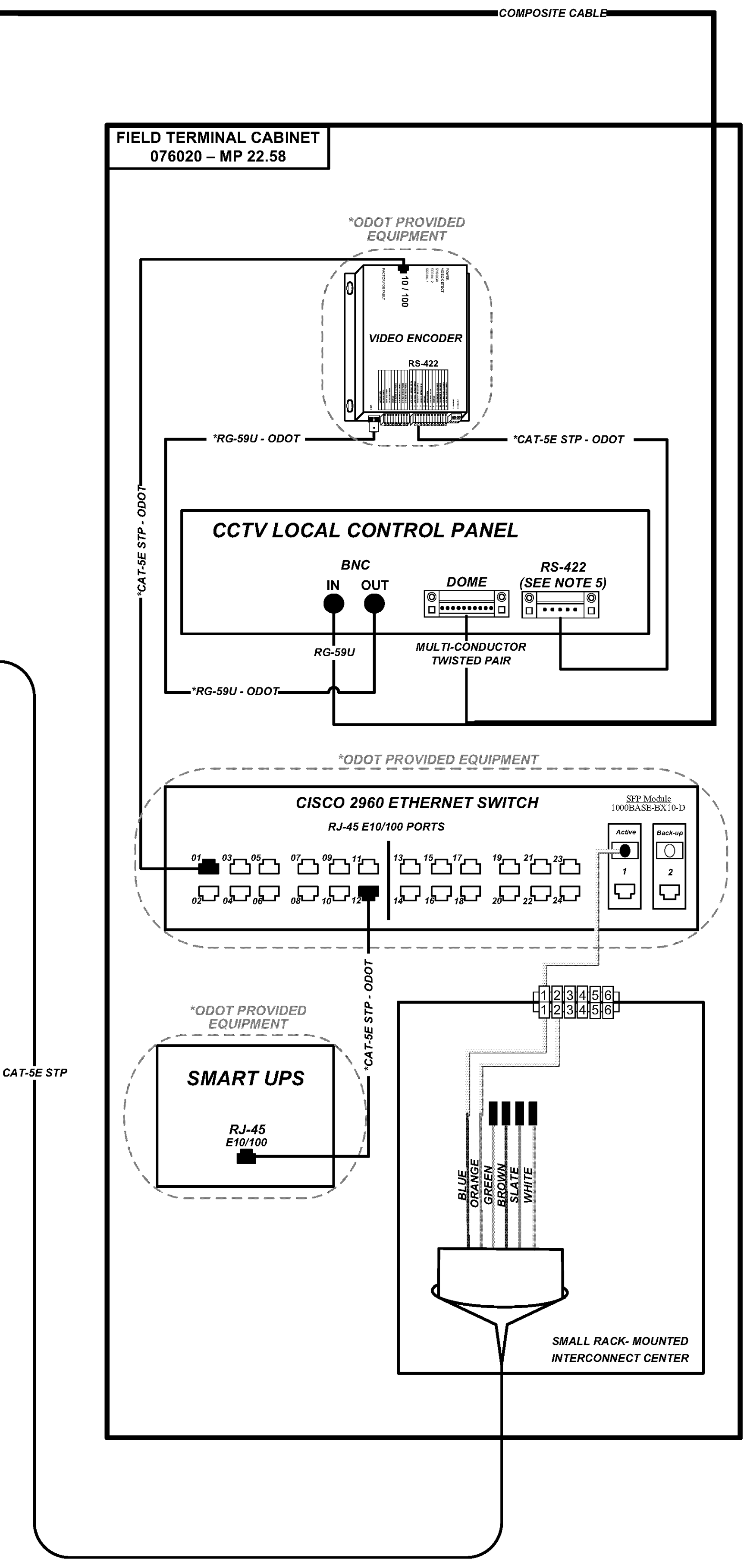
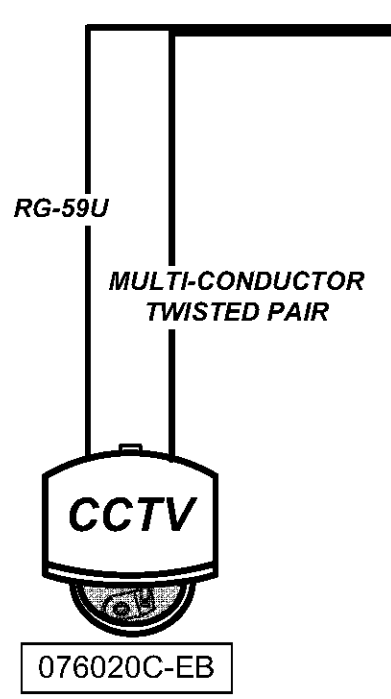
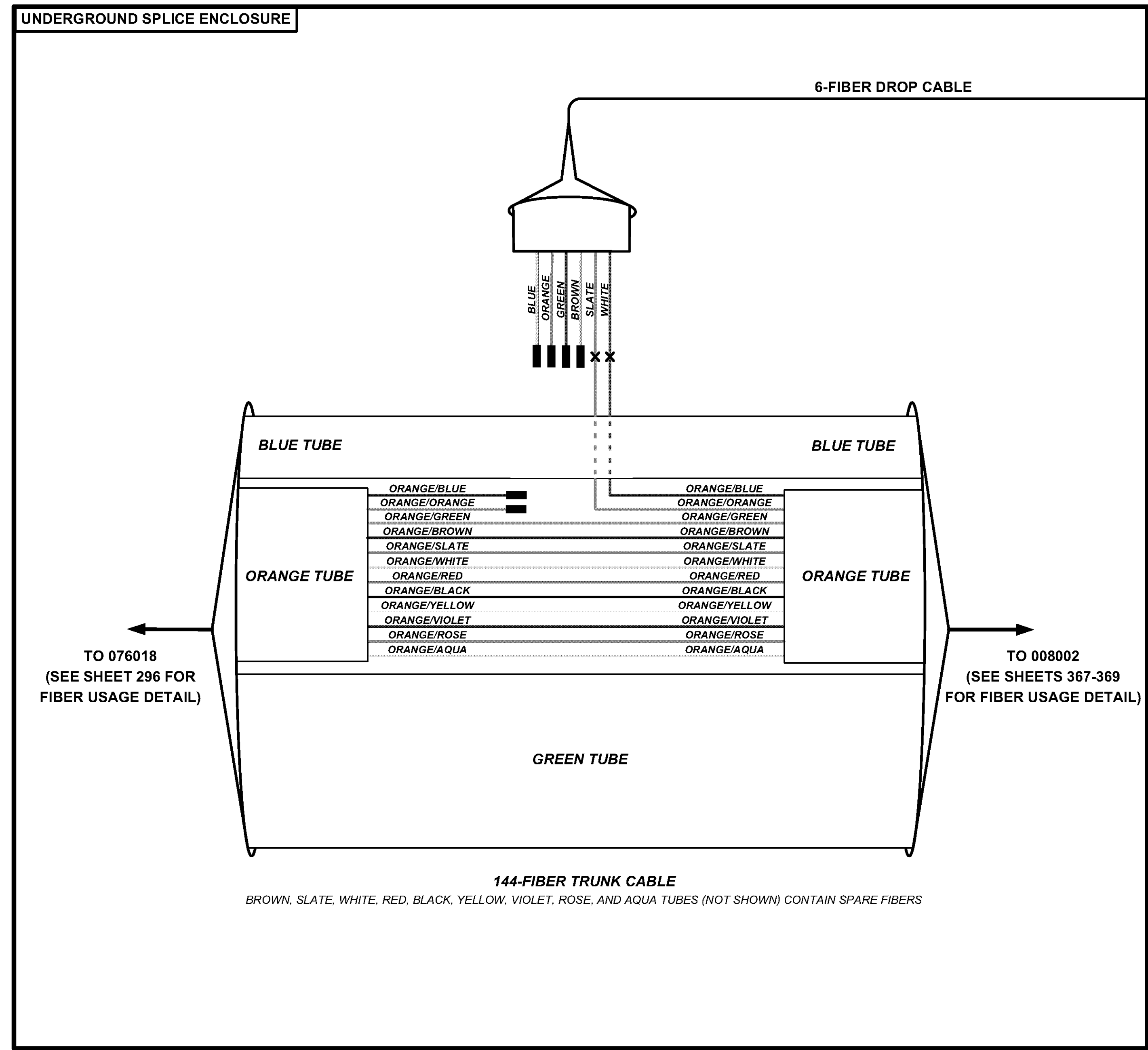
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DEVICE NUMBER FOLLOWED BY 'C'
-  DMS  
DYNAMIC MESSAGE SIGN  
DEVICE NUMBER FOLLOWED BY 'S'
-  EQUIPMENT CONNECTION  
FIBER OPTIC JUMPER
-  FIBER OPTIC PIGTAIL
-  EXISTING/PROPOSED  
BARE FIBER LEFT  
COILED IN SPLICE TRAY
-  EXISTING/PROPOSED  
FUSION SPLICE
-  CONNECTOR MODULE

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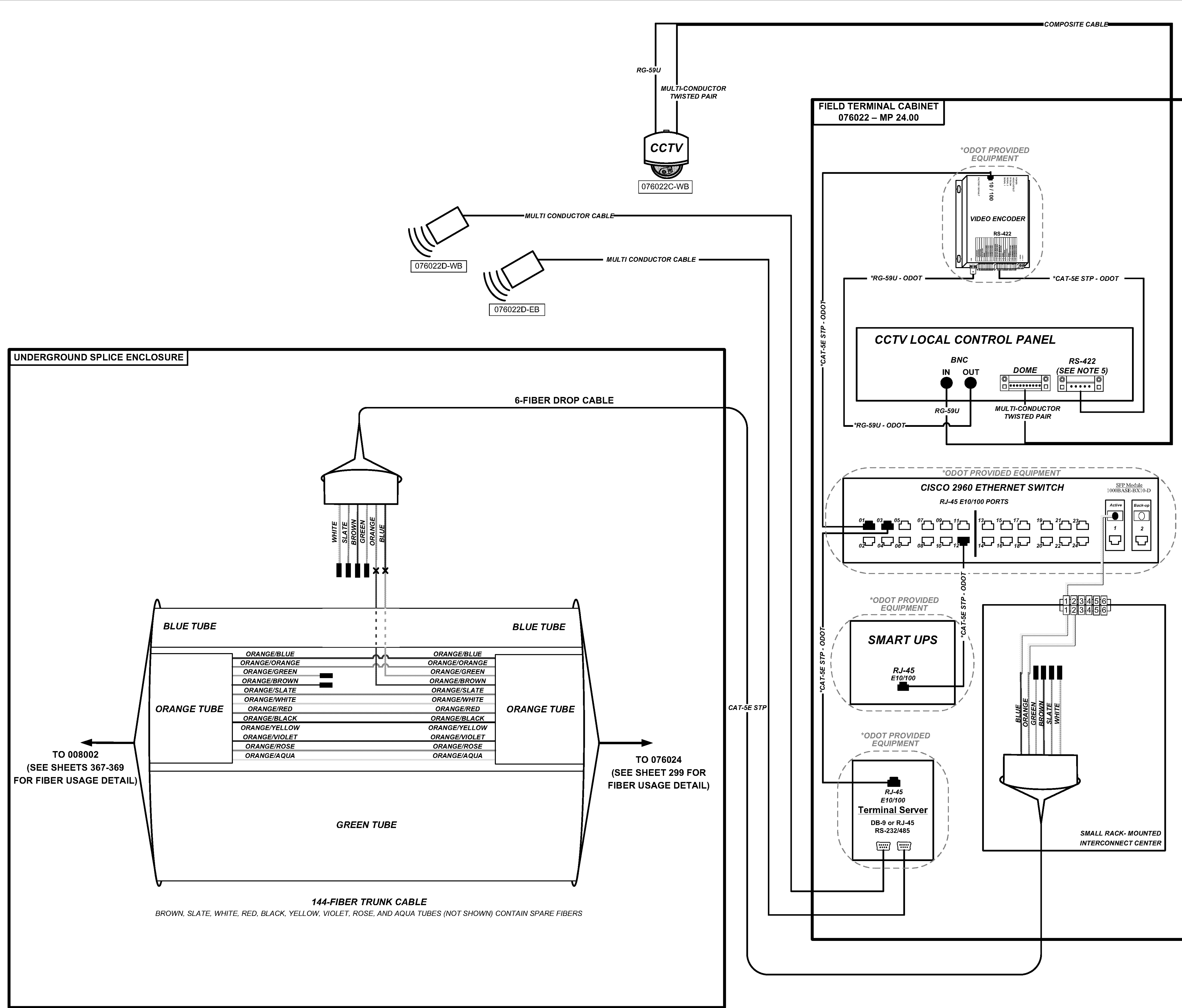







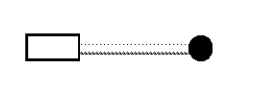
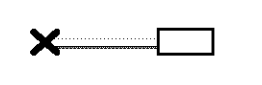


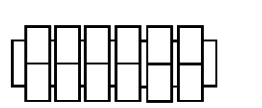
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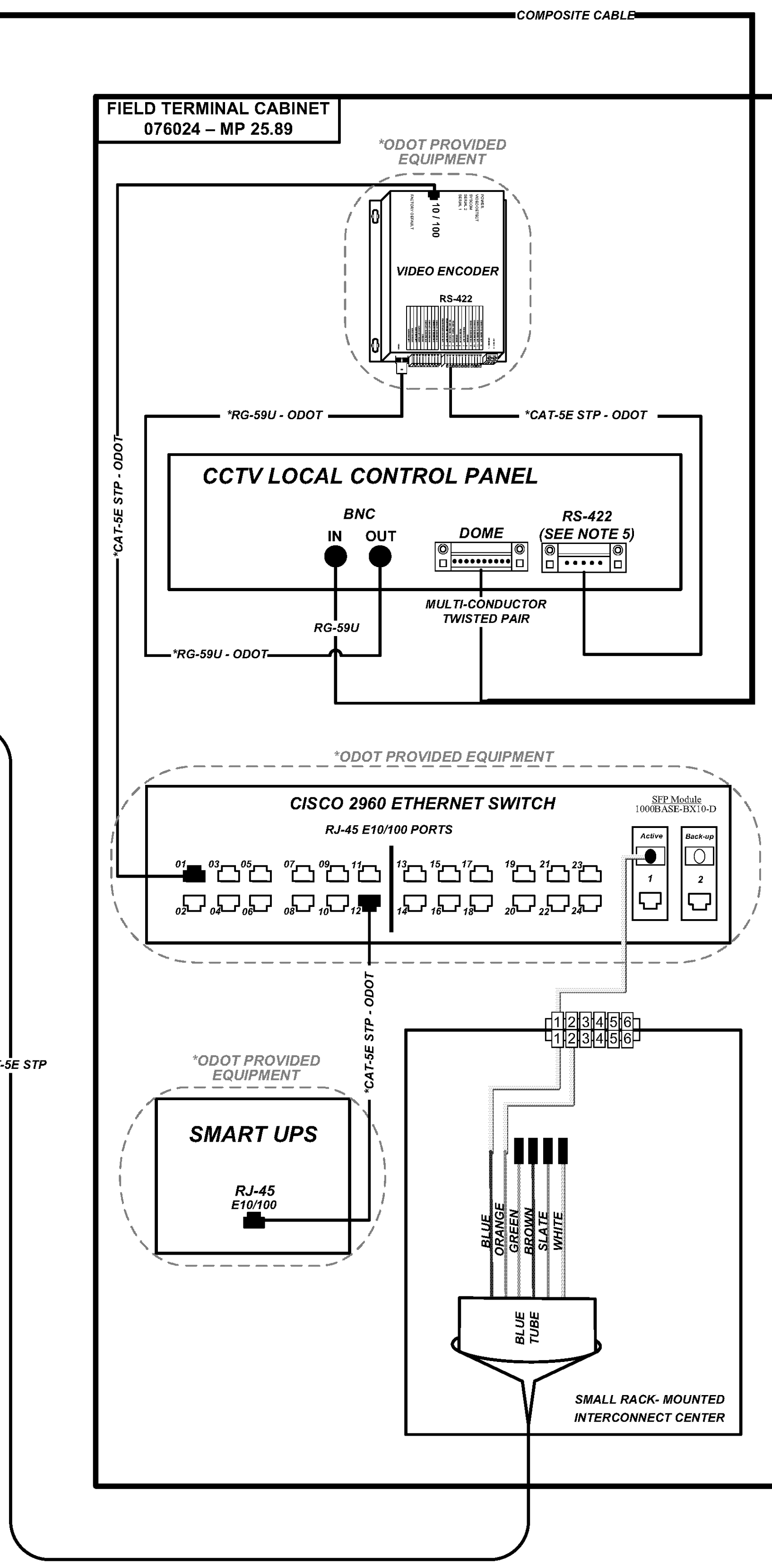
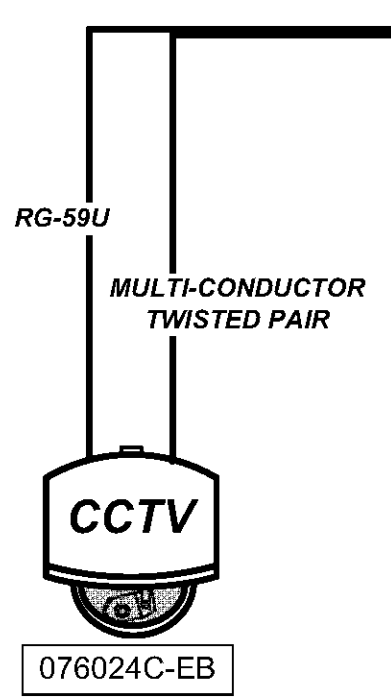
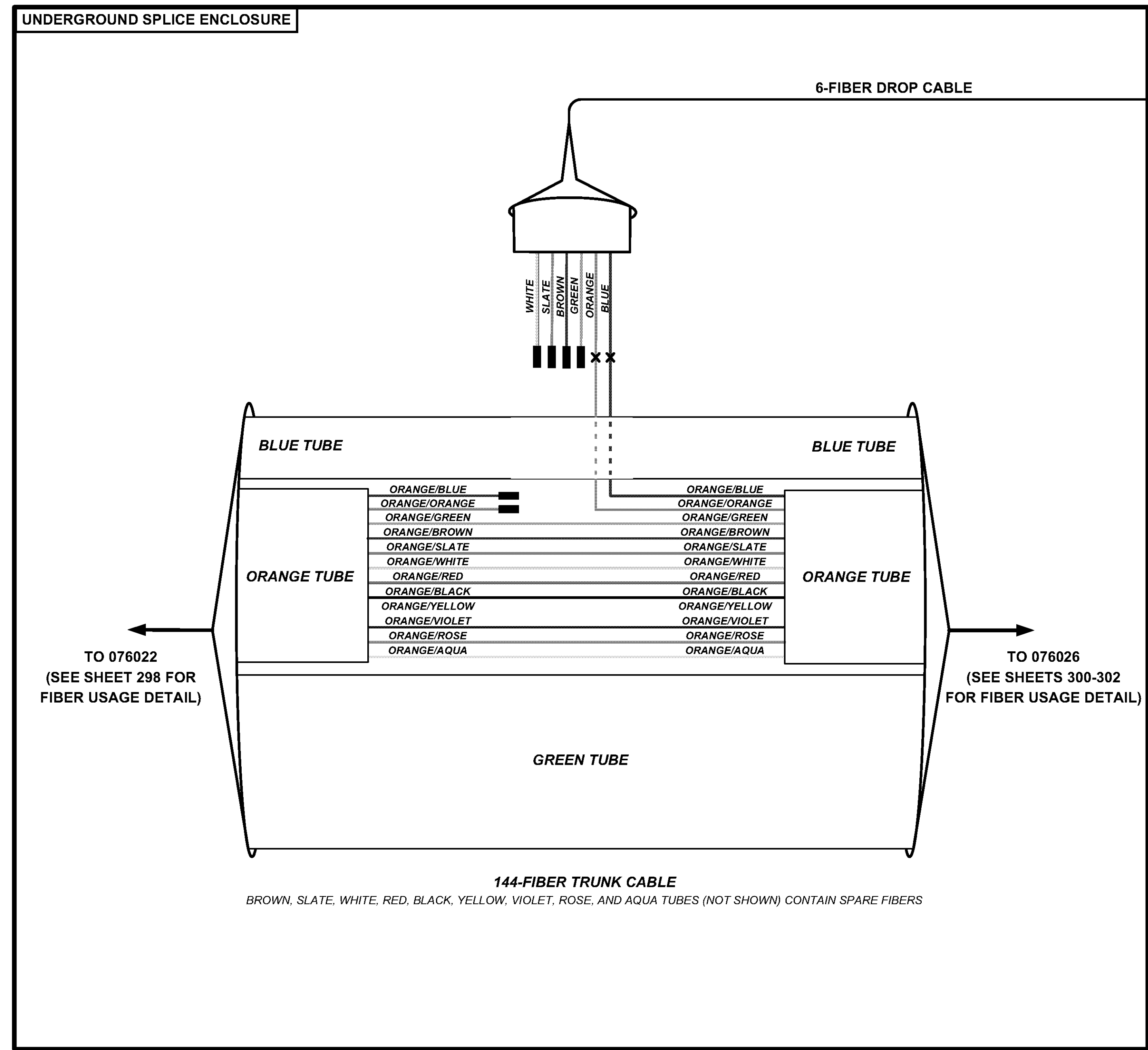


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-  DMS  
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DEVICE NUMBER FOLLOWED BY 'S'
-  EQUIPMENT CONNECTION  
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-  FIBER OPTIC PIGTAIL
-  EXISTING/PROPOSED  
BARE FIBER LEFT  
COILED IN SPLICE TRAY
-  EXISTING/PROPOSED  
FUSION SPLICE
-  CONNECTOR MODULE

**NOTES**

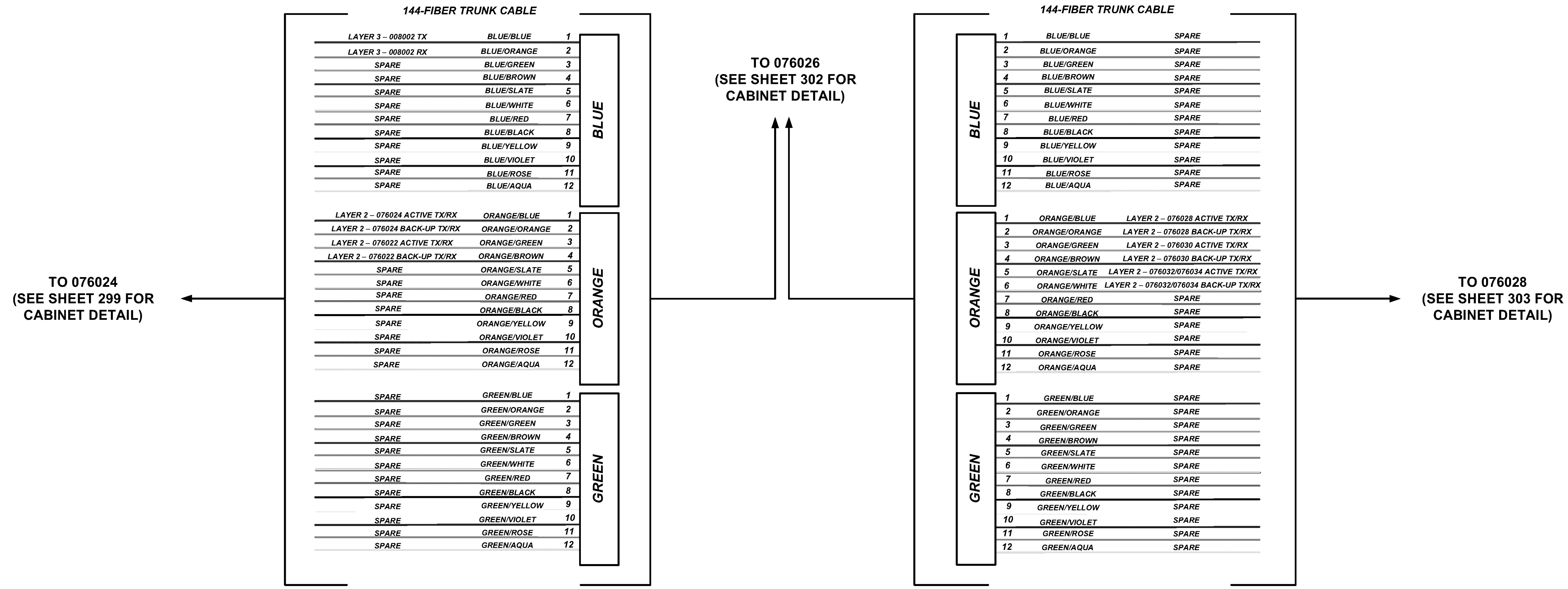
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DYNAMIC MESSAGE SIGN  
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- EQUIPMENT CONNECTION  
FIBER OPTIC JUMPER
- FIBER OPTIC PIGTAIL
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BARE FIBER LEFT  
COILED IN SPLICE TRAY
- EXISTING/PROPOSED  
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**KEY**



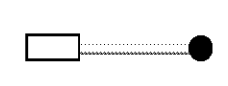
VEHICLE DETECTOR  
DEVICE NUMBER FOLLOWED BY 'D'



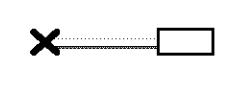
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DEVICE NUMBER FOLLOWED BY 'C'



DYNAMIC MESSAGE SIGN  
DEVICE NUMBER FOLLOWED BY 'S'



EQUIPMENT CONNECTION  
FIBER OPTIC JUMPER



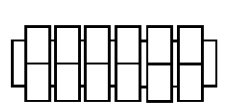
FIBER OPTIC PIGTAIL



EXISTING/PROPOSED  
BARE FIBER LEFT  
COILED IN SPLICE TRAY

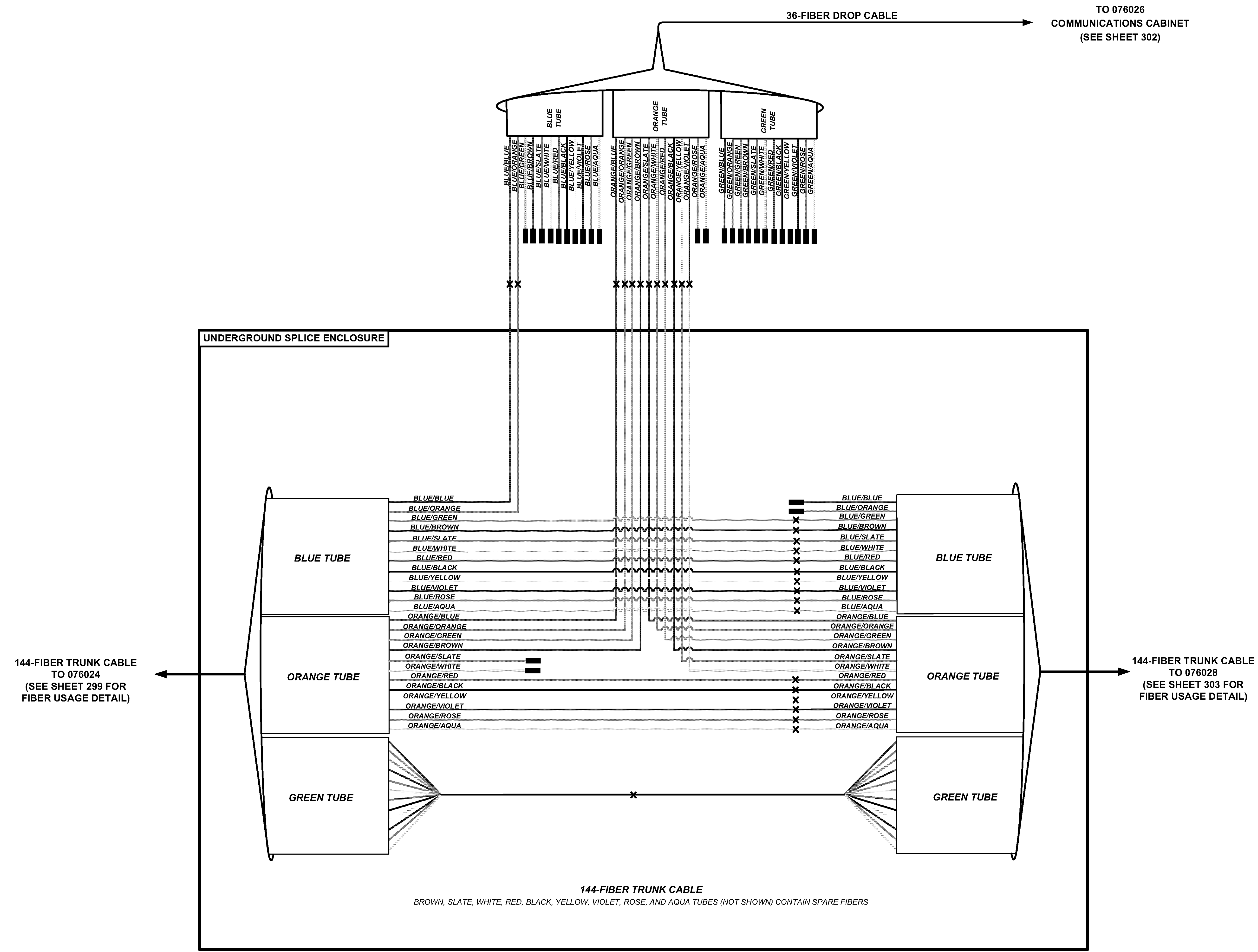


EXISTING/PROPOSED  
FUSION SPLICE



CONNECTOR MODULE

- NOTES**
1. MAXIMUM SPLICE LOSS SHALL BE 0.1 dB
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144-FIBER TRUNK CABLE  
TO 076024  
(SEE SHEET 299 FOR  
FIBER USAGE DETAIL)

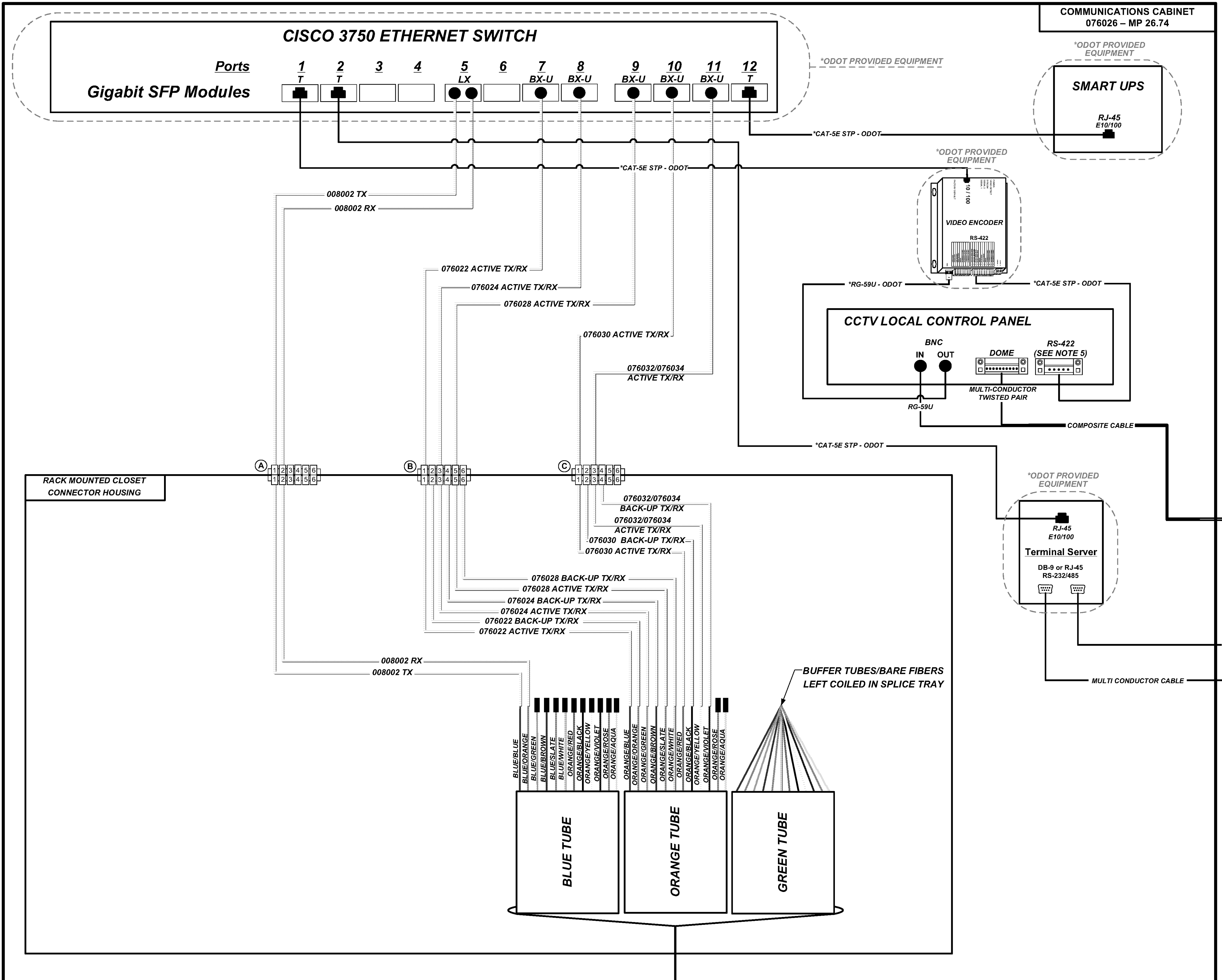
144-FIBER TRUNK CABLE  
TO 076028  
(SEE SHEET 303 FOR  
FIBER USAGE DETAIL)

TO 076026  
COMMUNICATIONS CABINET  
(SEE SHEET 302)

UNDERGROUND SPLICE ENCLOSURE

144-FIBER TRUNK CABLE  
BROWN, SLATE, WHITE, RED, BLACK, YELLOW, VIOLET, ROSE, AND AQUA TUBES (NOT SHOWN) CONTAIN SPARE FIBERS





**KEY**

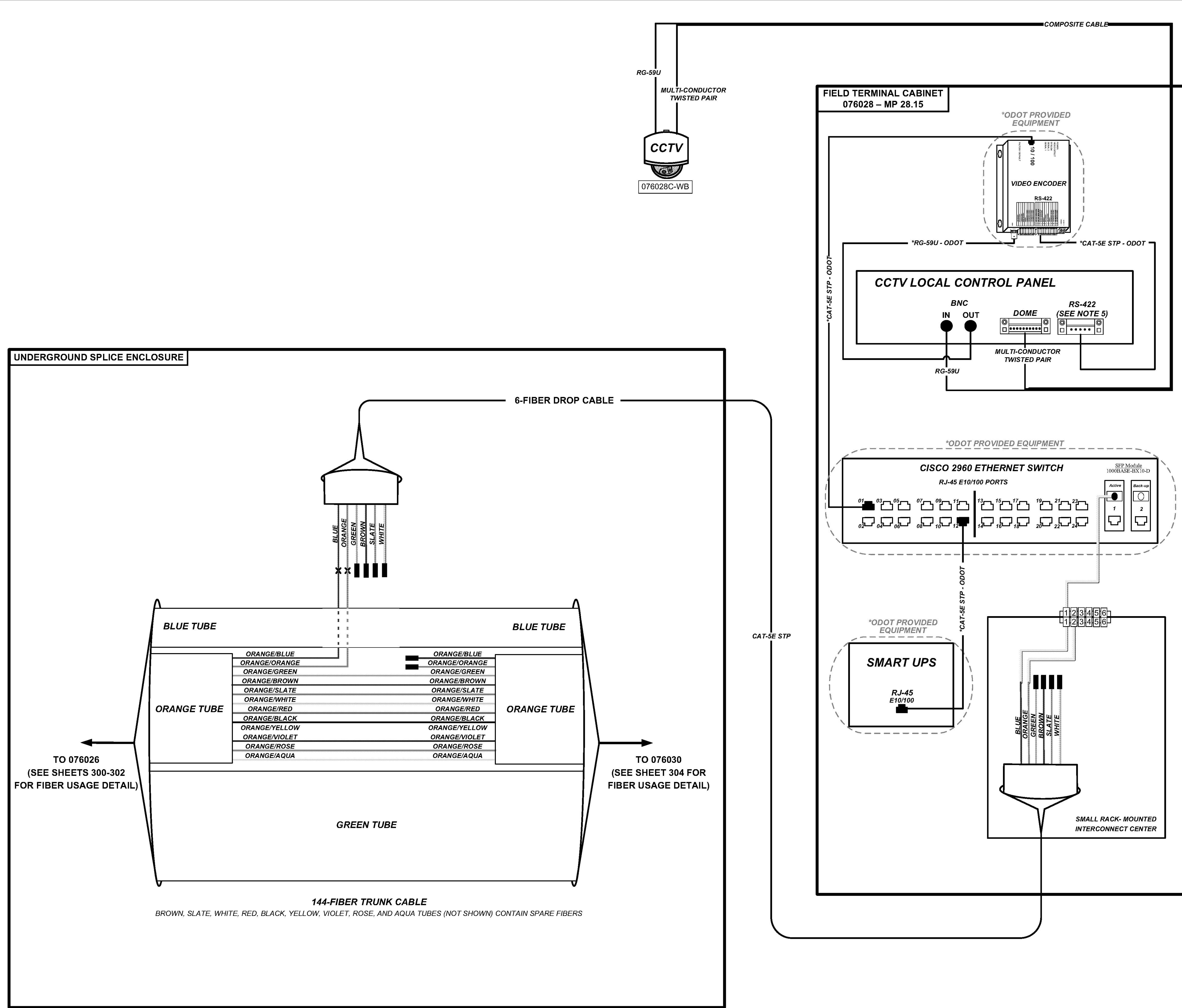
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- DMS  
DYNAMIC MESSAGE SIGN  
DEVICE NUMBER FOLLOWED BY 'S'
- EQUIPMENT CONNECTION  
FIBER OPTIC JUMPER
- FIBER OPTIC PIGTAIL
- EXISTING/PROPOSED  
BARE FIBER LEFT  
COILED IN SPLICE TRAY
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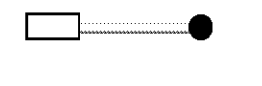
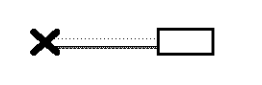


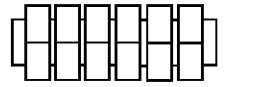
36-FIBER DROP CABLE TO 076026 UNDERGROUND SPLICE CLOSURE

FIBER ASSIGNMENT DETAIL DRAWING WITH ACTUAL FIBER USAGE SHOWN COMMUNICATIONS CABINET 076026

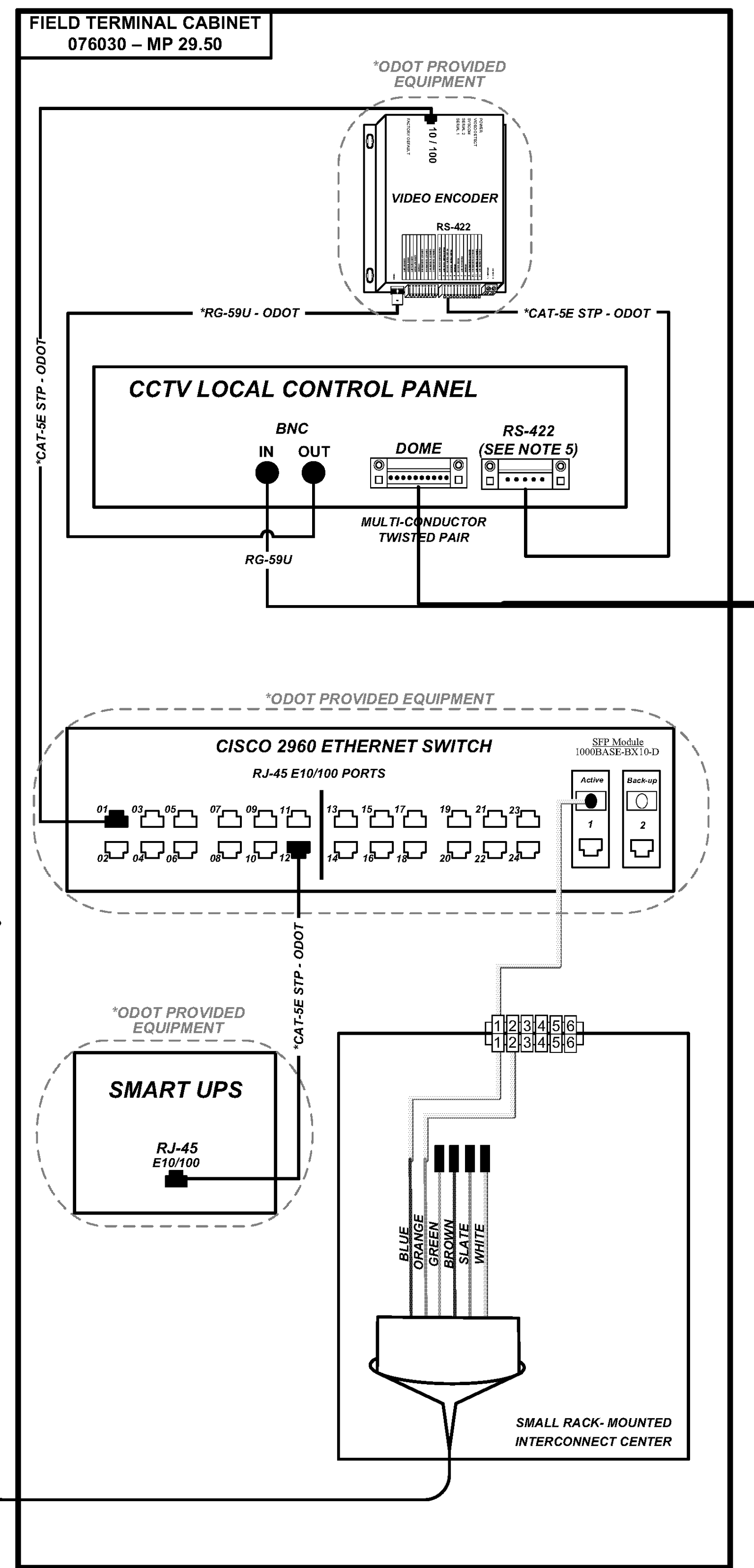
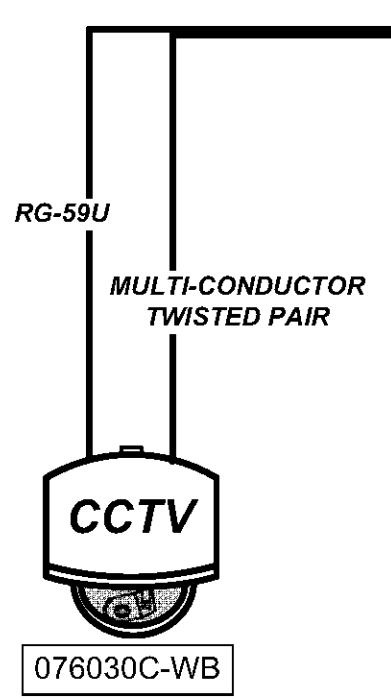
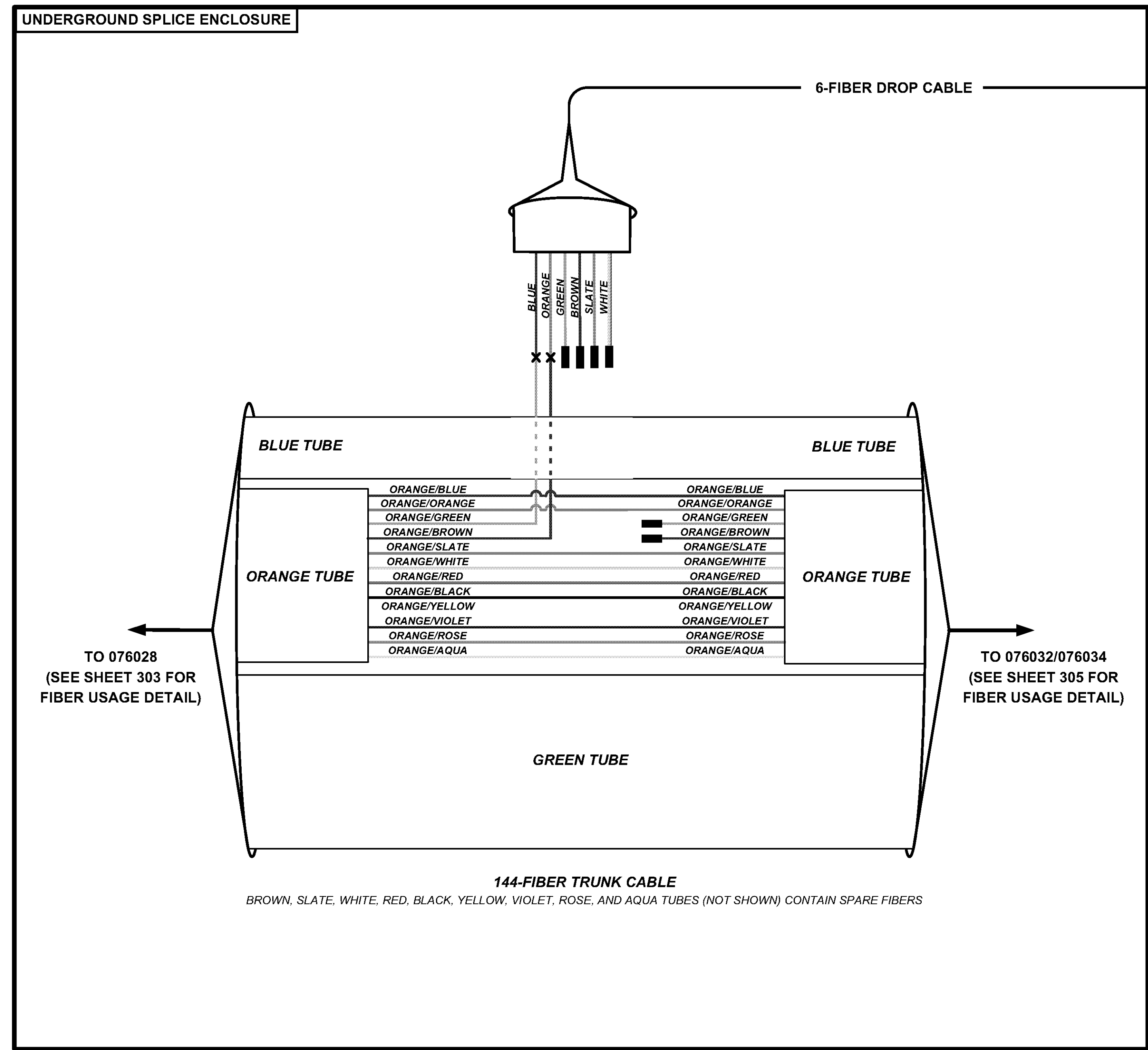
STA-SUM ITS



**KEY**

-  VEHICLE DETECTOR  
DEVICE NUMBER FOLLOWED BY 'D'
-  CCTV CAMERA  
DEVICE NUMBER FOLLOWED BY 'C'
-  DMS  
DYNAMIC MESSAGE SIGN  
DEVICE NUMBER FOLLOWED BY 'S'
-  EQUIPMENT CONNECTION  
FIBER OPTIC JUMPER
-  FIBER OPTIC PIGTAIL
-  EXISTING/PROPOSED  
BARE FIBER LEFT  
COILED IN SPLICE TRAY
-  EXISTING/PROPOSED  
FUSION SPLICE
-  CONNECTOR MODULE

- NOTES**
1. MAXIMUM SPLICE LOSS SHALL BE 0.1 dB
  2. NO INTERMEDIATE SPLICES ALLOWED
  3. ALL SPLICES SHALL BE FUSION SPLICES
  4. WHEN SPLICING UNDERGROUND, WITH THE EXCEPTION OF 3750 LOCATIONS, ONLY TUBES CONTAINING ALLOCATED FIBERS TO BE SPLICED SHALL BE CUT. ALL OTHER TUBES SHALL RUN UN-CUT BETWEEN CABINETS
  5. TERMINATE CAT-5E STP ON SCREW TERMINALS OF APPROPRIATE SERIAL CONNECTOR HOUSING.
  6. ODOT TO INSTALL ALL CISCO PRODUCTS, TERMINAL SERVERS, UPS, AND ALL ASSOCIATED CABLING THAT CONNECTS ODOT PROVIDED EQUIPMENT.



**KEY**









- VEHICLE DETECTOR  
DEVICE NUMBER FOLLOWED BY 'D'
- CCTV CAMERA  
DEVICE NUMBER FOLLOWED BY 'C'
- DMS  
DYNAMIC MESSAGE SIGN  
DEVICE NUMBER FOLLOWED BY 'S'
- EQUIPMENT CONNECTION FIBER OPTIC JUMPER
- FIBER OPTIC PIGTAIL
- EXISTING/PROPOSED BARE FIBER LEFT COILED IN SPLICE TRAY
- EXISTING/PROPOSED FUSION SPLICE
- CONNECTOR MODULE

- NOTES**
1. MAXIMUM SPLICE LOSS SHALL BE 0.1 dB
  2. NO INTERMEDIATE SPLICES ALLOWED
  3. ALL SPLICES SHALL BE FUSION SPLICES
  4. WHEN SPLICING UNDERGROUND, WITH THE EXCEPTION OF 3750 LOCATIONS, ONLY TUBES CONTAINING ALLOCATED FIBERS TO BE SPLICED SHALL BE CUT. ALL OTHER TUBES SHALL RUN UN-CUT BETWEEN CABINETS
  5. TERMINATE CAT-5E STP ON SCREW TERMINALS OF APPROPRIATE SERIAL CONNECTOR HOUSING.
  6. ODOT TO INSTALL ALL CISCO PRODUCTS, TERMINAL SERVERS, UPS, AND ALL ASSOCIATED CABLING THAT CONNECTS ODOT PROVIDED EQUIPMENT.

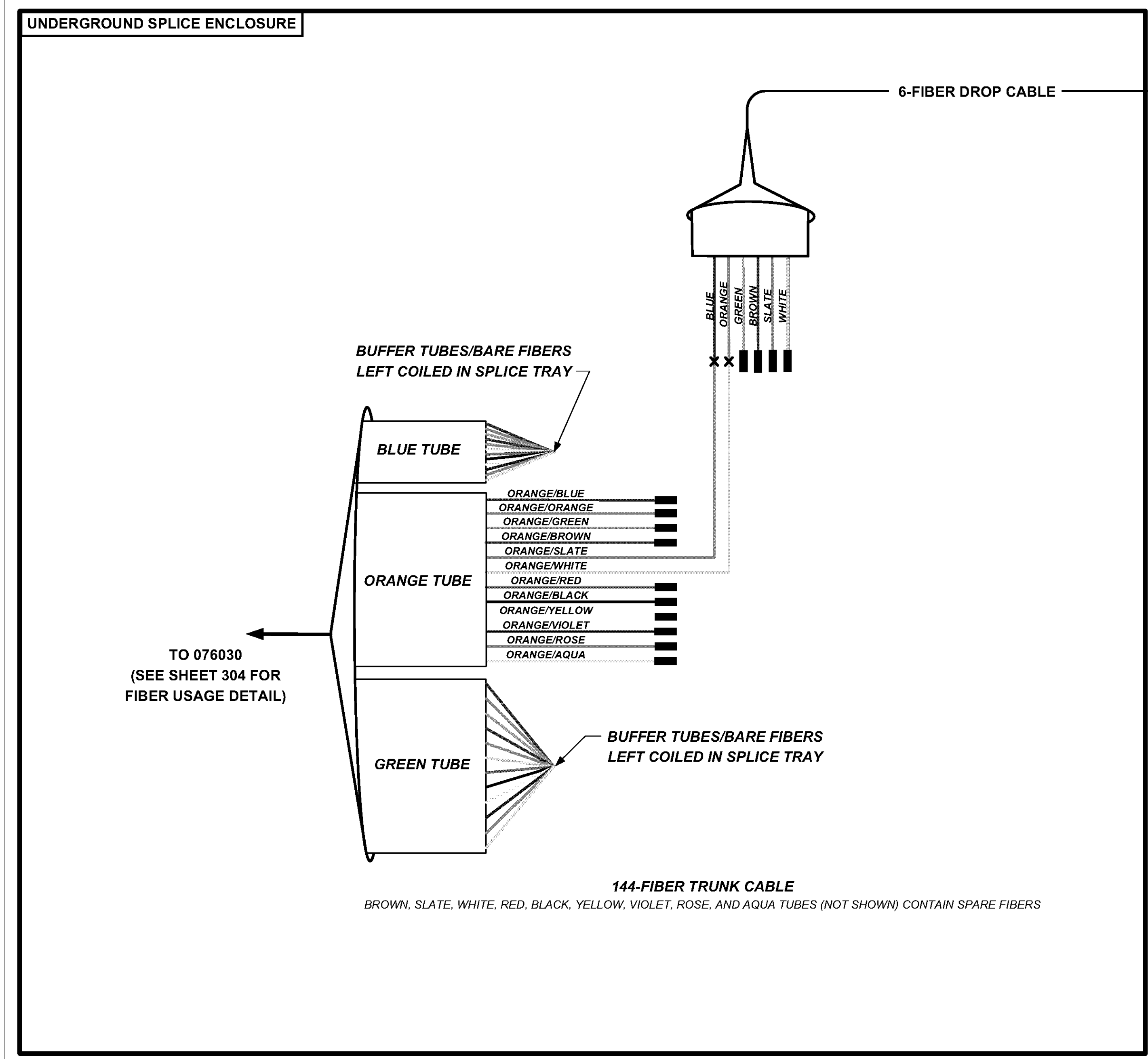
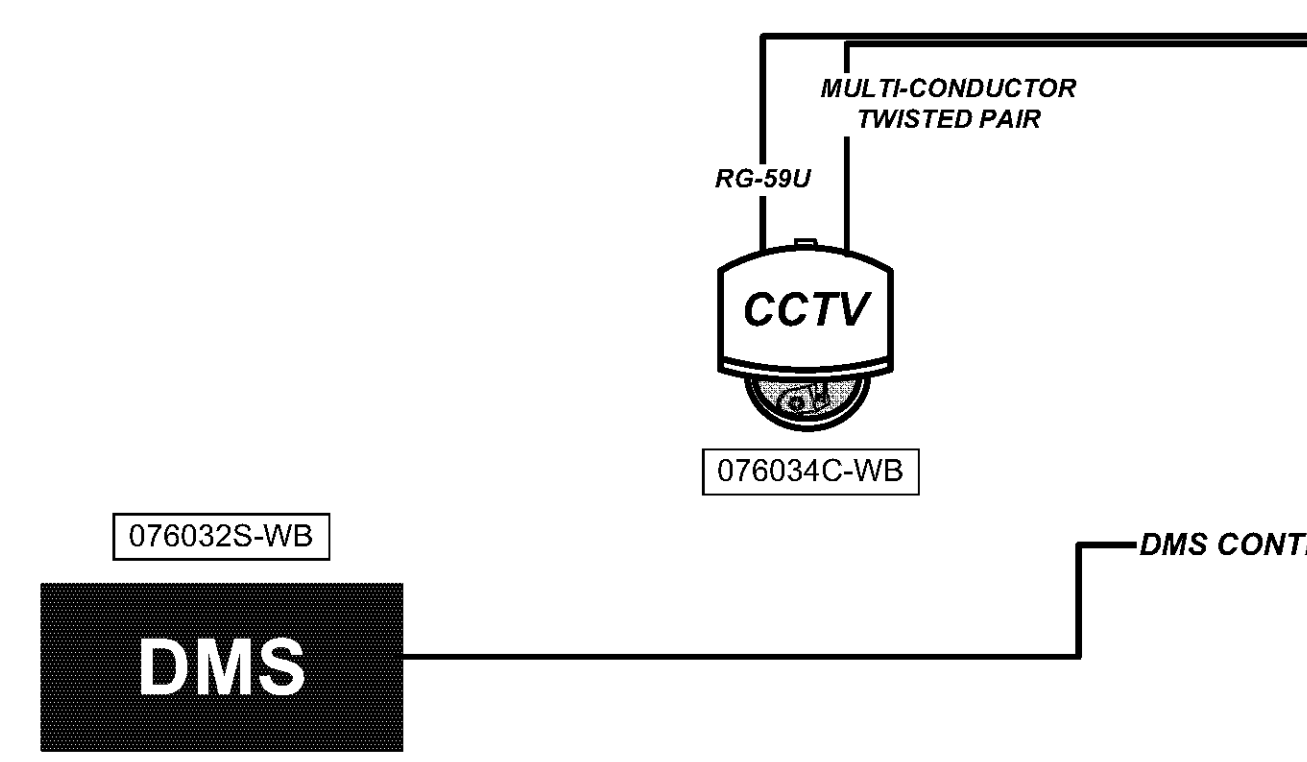
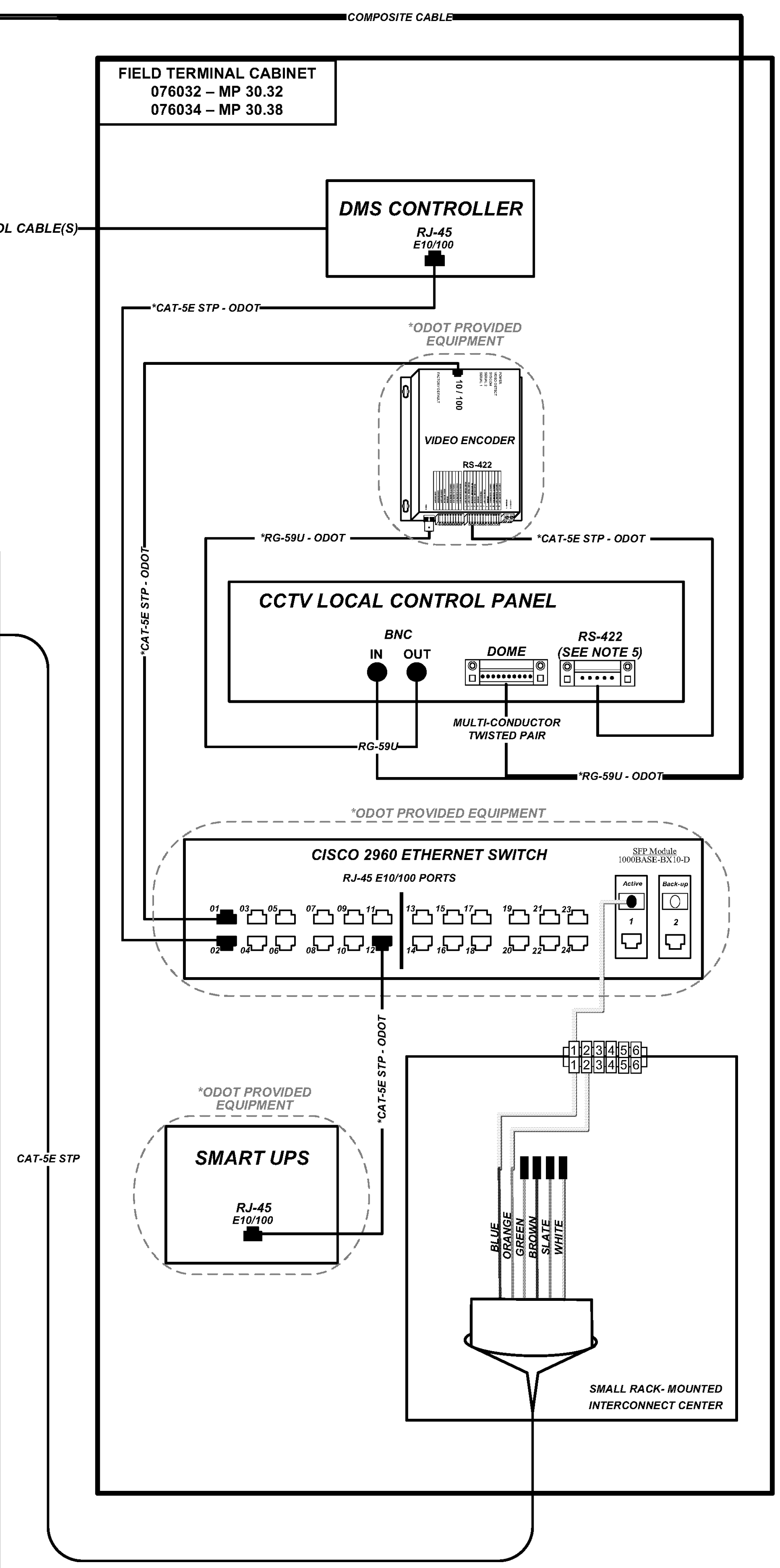
FIBER ASSIGNMENT DETAIL DRAWING WITH ACTUAL FIBER USAGE SHOWN  
FIELD TERMINAL CABINET 076030

STA-SUM ITS

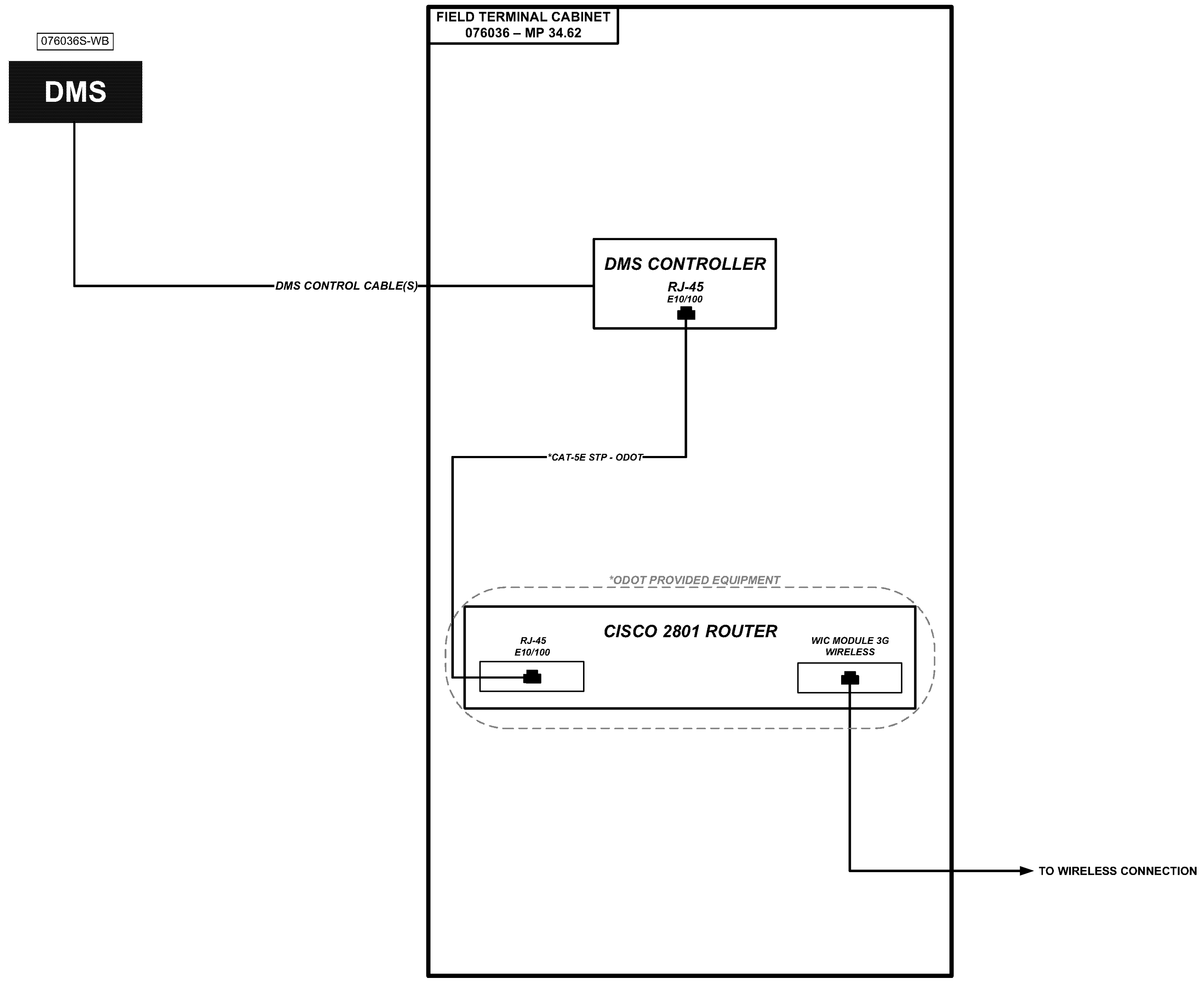
**KEY**

-  VEHICLE DETECTOR  
DEVICE NUMBER FOLLOWED BY 'D'
-  CCTV CAMERA  
DEVICE NUMBER FOLLOWED BY 'C'
-  DMS  
DYNAMIC MESSAGE SIGN  
DEVICE NUMBER FOLLOWED BY 'S'
-  EQUIPMENT CONNECTION  
FIBER OPTIC JUMPER
-  FIBER OPTIC PIGTAIL
-  EXISTING/PROPOSED  
BARE FIBER LEFT  
COILED IN SPLICE TRAY
-  EXISTING/PROPOSED  
FUSION SPLICE
-  CONNECTOR MODULE








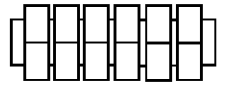
- NOTES**
1. MAXIMUM SPLICE LOSS SHALL BE 0.1 dB
  2. NO INTERMEDIATE SPLICES ALLOWED
  3. ALL SPLICES SHALL BE FUSION SPLICES
  4. WHEN SPLICING UNDERGROUND, WITH THE EXCEPTION OF 3750 LOCATIONS, ONLY TUBES CONTAINING ALLOCATED FIBERS TO BE SPLICED SHALL BE CUT. ALL OTHER TUBES SHALL RUN UN-CUT BETWEEN CABINETS
  5. TERMINATE CAT-5E STP ON SCREW TERMINALS OF APPROPRIATE SERIAL CONNECTOR HOUSING.
  6. ODOT TO INSTALL ALL CISCO PRODUCTS, TERMINAL SERVERS, UPS, AND ALL ASSOCIATED CABLING THAT CONNECTS ODOT PROVIDED EQUIPMENT.



**UNDERGROUND SPLICE ENCLOSURE**



### KEY

-  VEHICLE DETECTOR  
DEVICE NUMBER FOLLOWED BY 'D'
-  CCTV CAMERA  
DEVICE NUMBER FOLLOWED BY 'C'
-  DMS  
DYNAMIC MESSAGE SIGN  
DEVICE NUMBER FOLLOWED BY 'S'
-  EQUIPMENT CONNECTION  
FIBER OPTIC JUMPER
-  FIBER OPTIC PIGTAIL
-  EXISTING/PROPOSED  
BARE FIBER LEFT  
COILED IN SPLICE TRAY
-  EXISTING/PROPOSED  
FUSION SPLICE
-  CONNECTOR MODULE

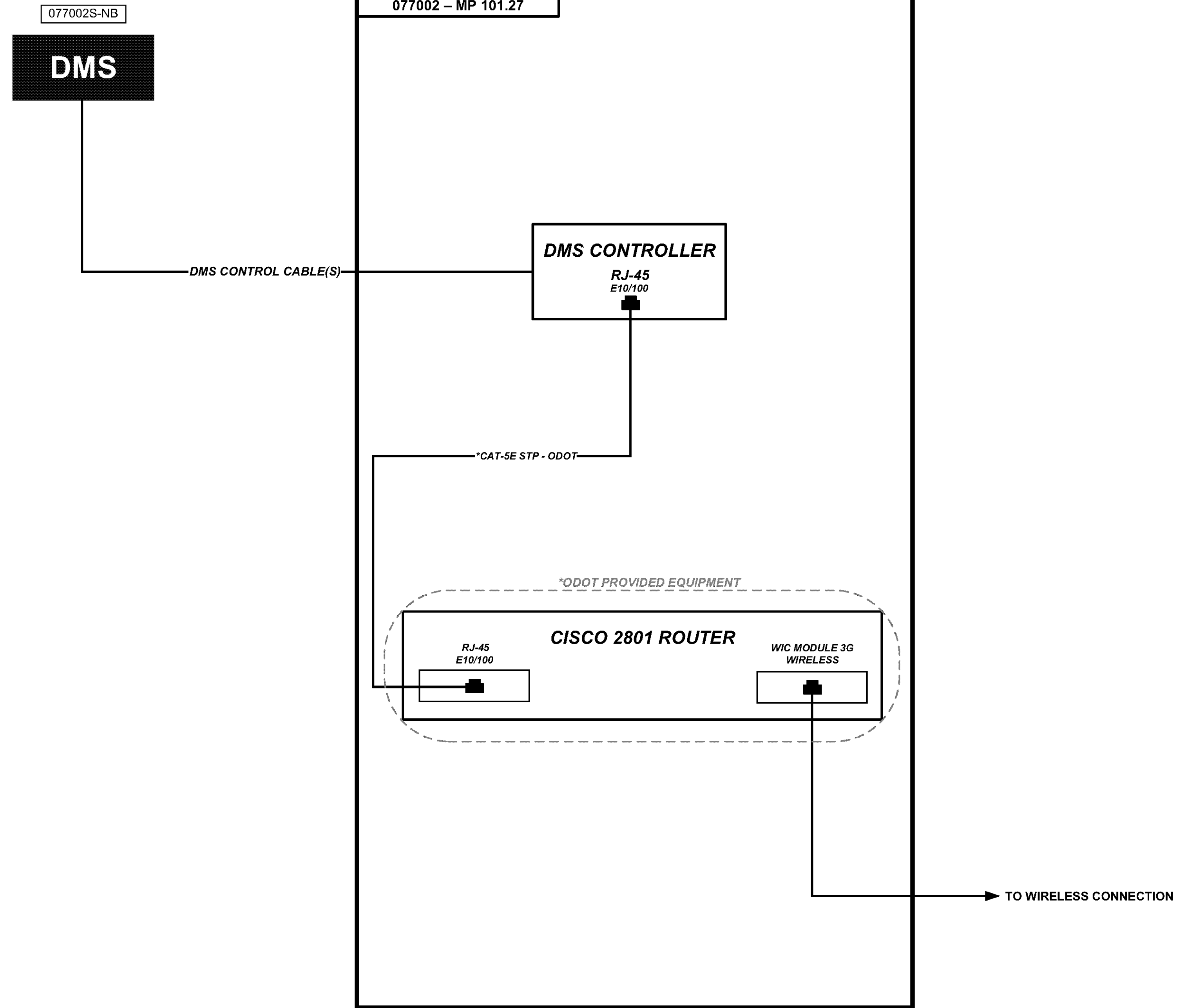
- NOTES**
1. TERMINATE CAT-5E STP ON SCREW TERMINALS OF APPROPRIATE SERIAL CONNECTOR HOUSING.
  2. ODOT TO INSTALL ALL CISCO PRODUCTS, TERMINAL SERVERS, UPS, AND ALL ASSOCIATED CABLING THAT CONNECTS ODOT PROVIDED EQUIPMENT.

CALCULATED  
RM  
CHECKED  
JDG

WIRELESS-CDMA CONNECTION DETAIL DRAWING  
FIELD TERMINAL CABINET 076036

STA-SUM ITS





KEY	
	VEHICLE DETECTOR DEVICE NUMBER FOLLOWED BY 'D'
	CCTV CAMERA DEVICE NUMBER FOLLOWED BY 'C'
	DYNAMIC MESSAGE SIGN DEVICE NUMBER FOLLOWED BY 'S'
	EQUIPMENT CONNECTION FIBER OPTIC JUMPER
	FIBER OPTIC PIGTAIL
	EXISTING/PROPOSED BARE FIBER LEFT COILED IN SPLICE TRAY
	EXISTING/PROPOSED FUSION SPLICE
	CONNECTOR MODULE




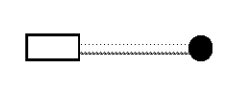
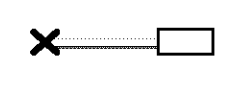


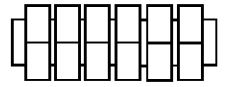
- NOTES**
1. TERMINATE CAT-5E STP ON SCREW TERMINALS OF APPROPRIATE SERIAL CONNECTOR HOUSING.
  2. ODOT TO INSTALL ALL CISCO PRODUCTS, TERMINAL SERVERS, UPS, AND ALL ASSOCIATED CABLING THAT CONNECTS ODOT PROVIDED EQUIPMENT.

CALCULATED  
RM  
CHECKED  
JDG

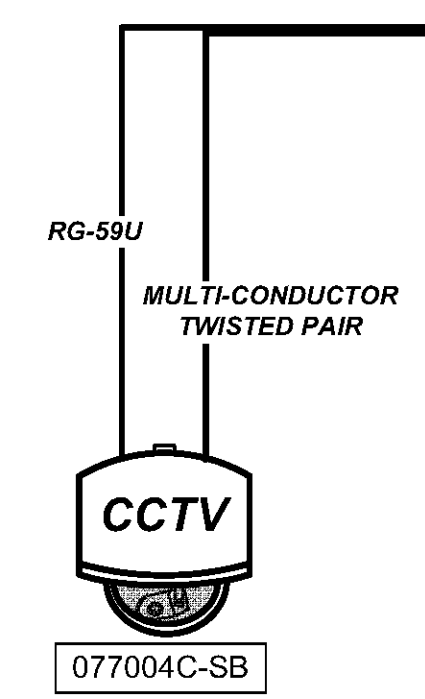
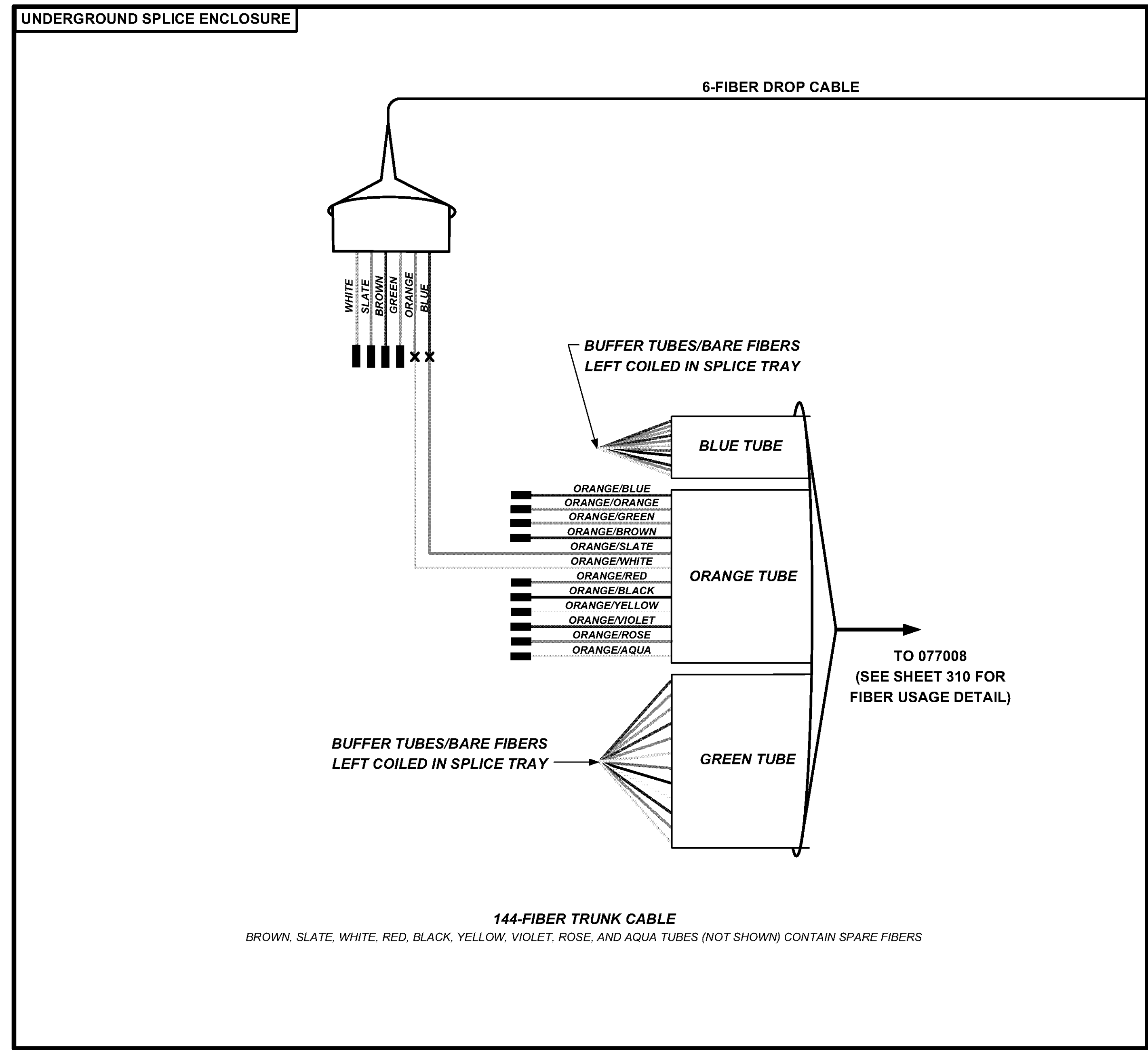
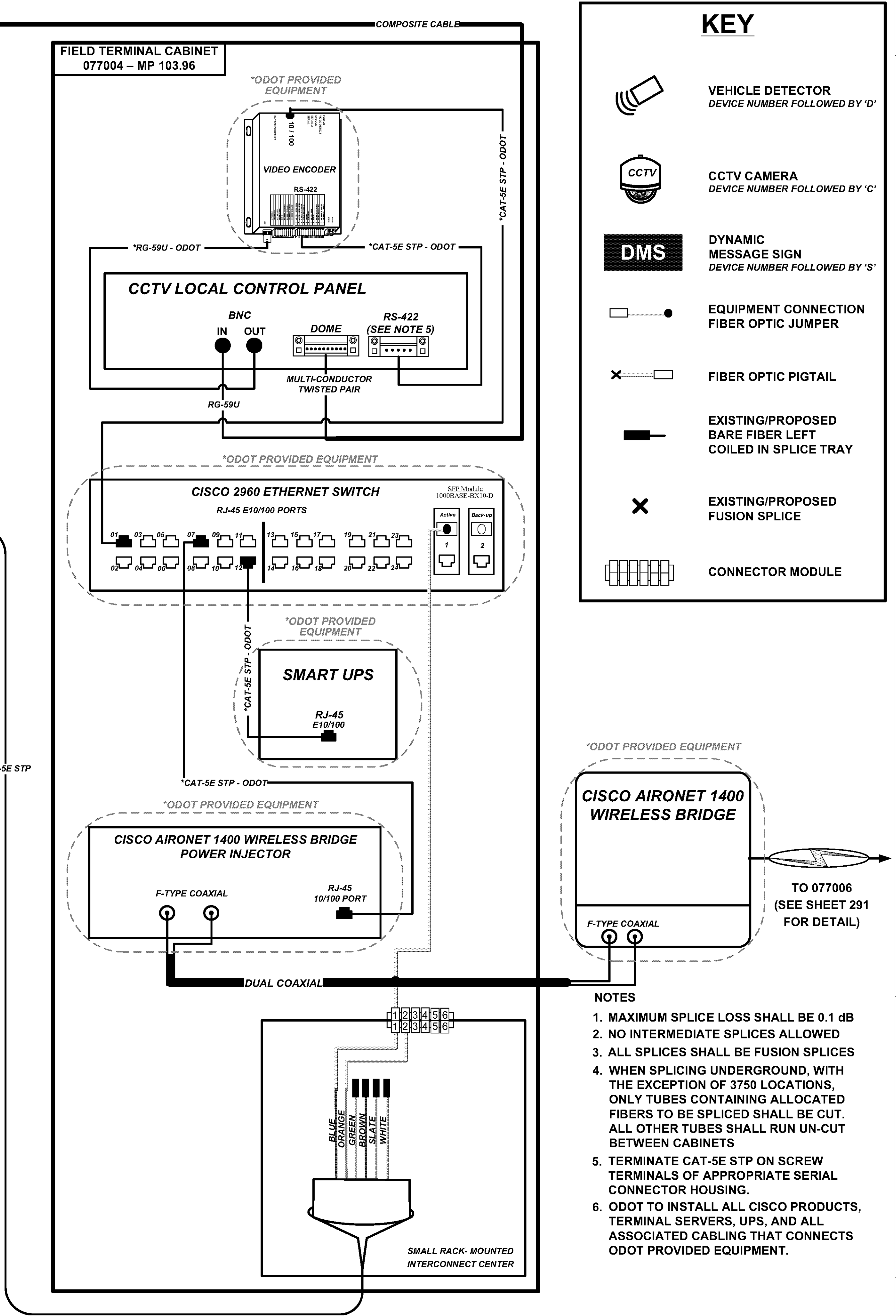
WIRELESS-CDMA CONNECTION DETAIL DRAWING  
FIELD TERMINAL CABINET 077002

STA-SUM ITS

**KEY**

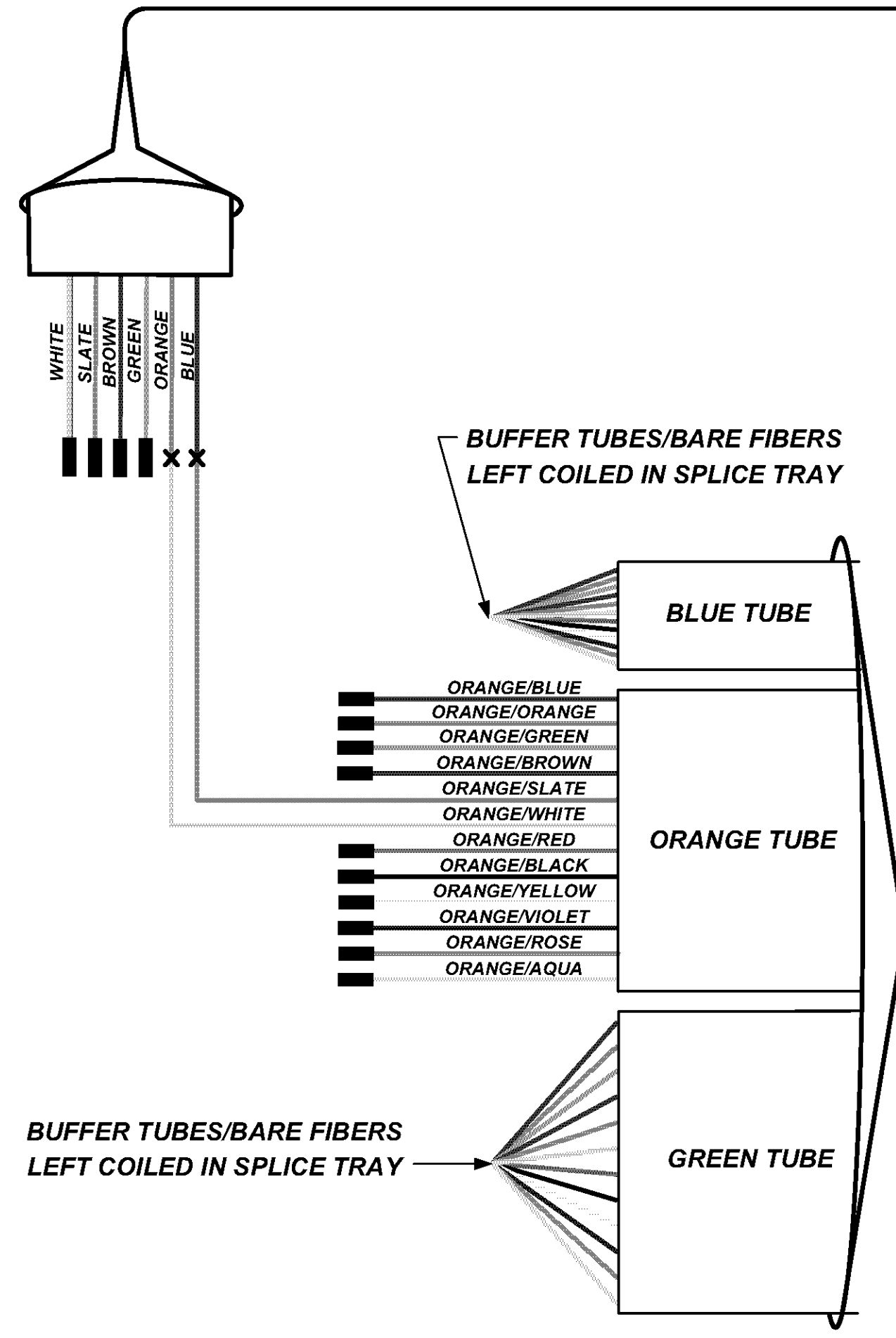
-  VEHICLE DETECTOR  
DEVICE NUMBER FOLLOWED BY 'D'
-  CCTV CAMERA  
DEVICE NUMBER FOLLOWED BY 'C'
-  DMS  
DYNAMIC MESSAGE SIGN  
DEVICE NUMBER FOLLOWED BY 'S'
-  EQUIPMENT CONNECTION  
FIBER OPTIC JUMPER
-  FIBER OPTIC PIGTAIL
-  EXISTING/PROPOSED  
BARE FIBER LEFT  
COILED IN SPLICE TRAY
-  EXISTING/PROPOSED  
FUSION SPLICE
-  CONNECTOR MODULE

- NOTES**
1. MAXIMUM SPLICE LOSS SHALL BE 0.1 dB
  2. NO INTERMEDIATE SPLICES ALLOWED
  3. ALL SPLICES SHALL BE FUSION SPLICES
  4. WHEN SPLICING UNDERGROUND, WITH THE EXCEPTION OF 3750 LOCATIONS, ONLY TUBES CONTAINING ALLOCATED FIBERS TO BE SPLICED SHALL BE CUT. ALL OTHER TUBES SHALL RUN UN-CUT BETWEEN CABINETS
  5. TERMINATE CAT-5E STP ON SCREW TERMINALS OF APPROPRIATE SERIAL CONNECTOR HOUSING.
  6. ODOT TO INSTALL ALL CISCO PRODUCTS, TERMINAL SERVERS, UPS, AND ALL ASSOCIATED CABLING THAT CONNECTS ODOT PROVIDED EQUIPMENT.



**UNDERGROUND SPLICE ENCLOSURE**

**6-FIBER DROP CABLE**



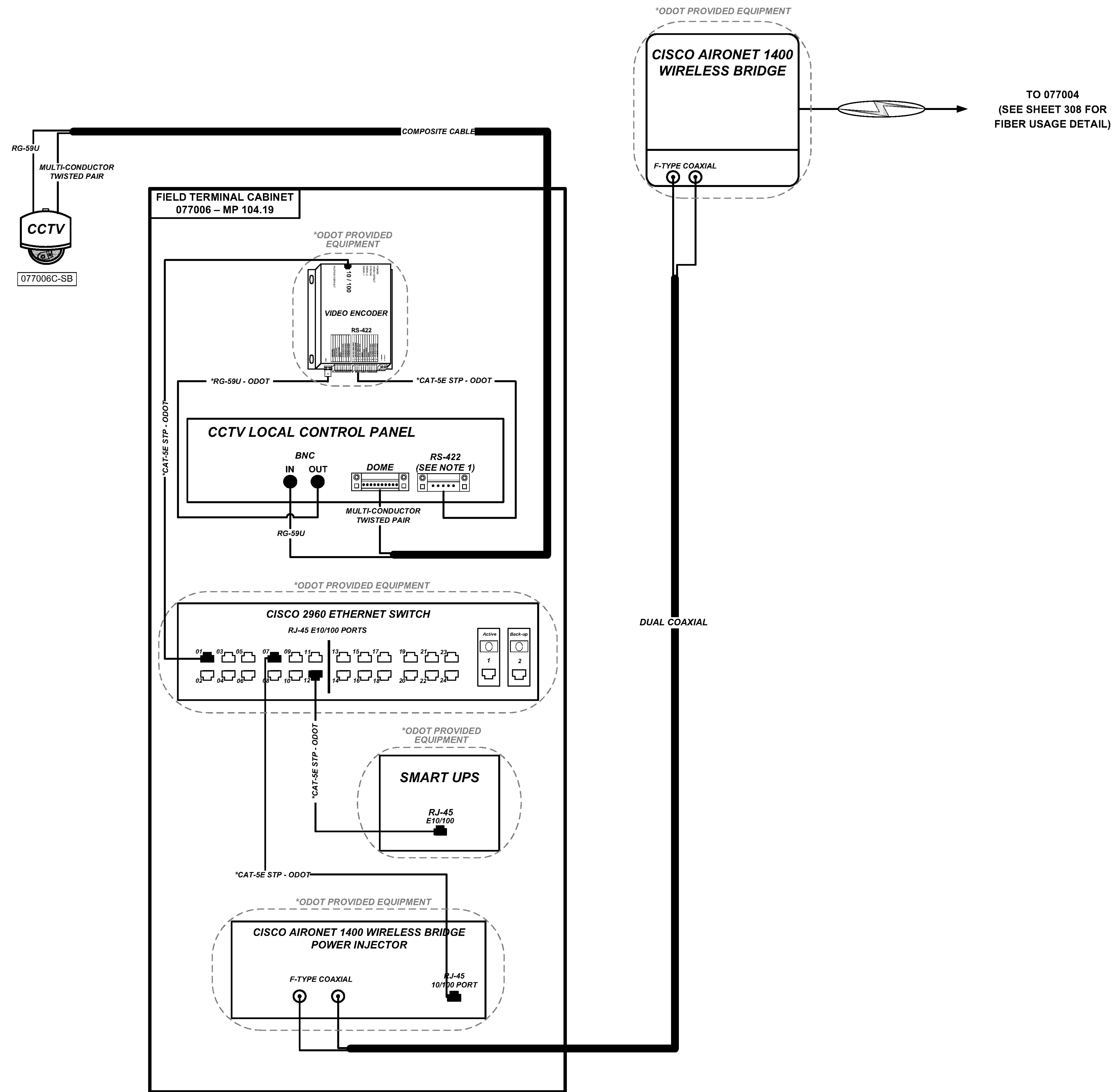
**144-FIBER TRUNK CABLE**  
BROWN, SLATE, WHITE, RED, BLACK, YELLOW, VIOLET, ROSE, AND AQUA TUBES (NOT SHOWN) CONTAIN SPARE FIBERS

TO 077008  
(SEE SHEET 310 FOR FIBER USAGE DETAIL)

CAT-5E STP

DUAL COAXIAL

TO 077006  
(SEE SHEET 291 FOR DETAIL)



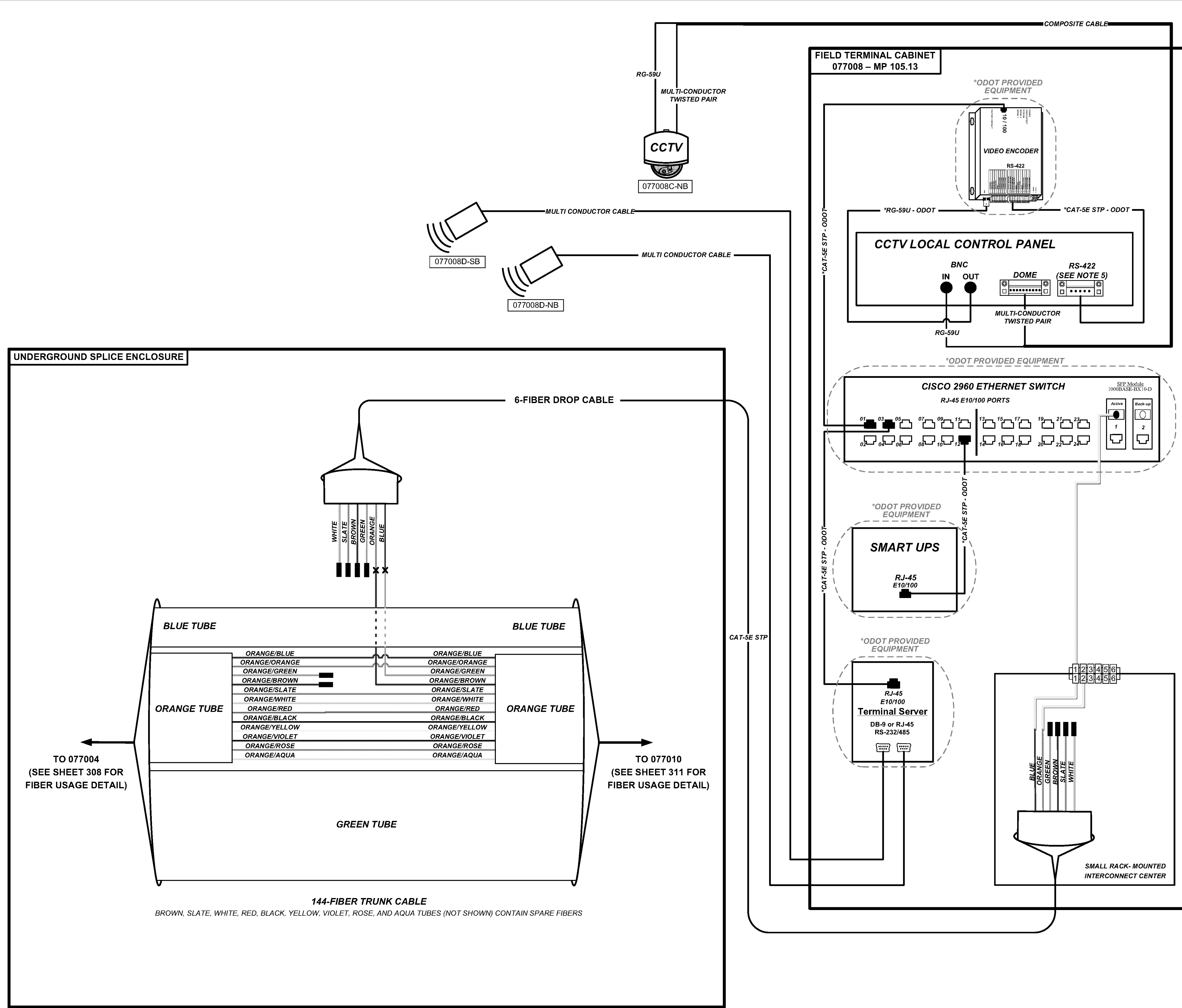
KEY	
	VEHICLE DETECTOR DEVICE NUMBER FOLLOWED BY 'D'
	CCTV CAMERA DEVICE NUMBER FOLLOWED BY 'C'
	DYNAMIC MESSAGE SIGN DEVICE NUMBER FOLLOWED BY 'S'
	EQUIPMENT CONNECTION FIBER OPTIC JUMPER
	FIBER OPTIC PIGTAIL
	EXISTING/PROPOSED BARE FIBER LEFT COILED IN SPLICE TRAY
	EXISTING/PROPOSED FUSION SPLICE
	CONNECTOR MODULE

- NOTES**
1. TERMINATE CAT-5E STP ON SCREW TERMINALS OF APPROPRIATE SERIAL CONNECTOR HOUSING.
  2. ODOT TO INSTALL ALL CISCO PRODUCTS, TERMINAL SERVERS, UPS, AND ALL ASSOCIATED CABLING THAT CONNECTS ODOT PROVIDED EQUIPMENT.

CALCULATED  
RM  
CHECKED  
JDG

WIRELESS CONNECTION DETAIL DRAWING  
FIELD TERMINAL CABINET 077006

STA-SUM ITS



**KEY**

- VEHICLE DETECTOR  
DEVICE NUMBER FOLLOWED BY 'D'
- CCTV CAMERA  
DEVICE NUMBER FOLLOWED BY 'C'
- DMS  
DYNAMIC MESSAGE SIGN  
DEVICE NUMBER FOLLOWED BY 'S'
- EQUIPMENT CONNECTION  
FIBER OPTIC JUMPER
- FIBER OPTIC PIGTAIL
- EXISTING/PROPOSED  
BARE FIBER LEFT  
COILED IN SPLICE TRAY
- EXISTING/PROPOSED  
FUSION SPLICE
- CONNECTOR MODULE

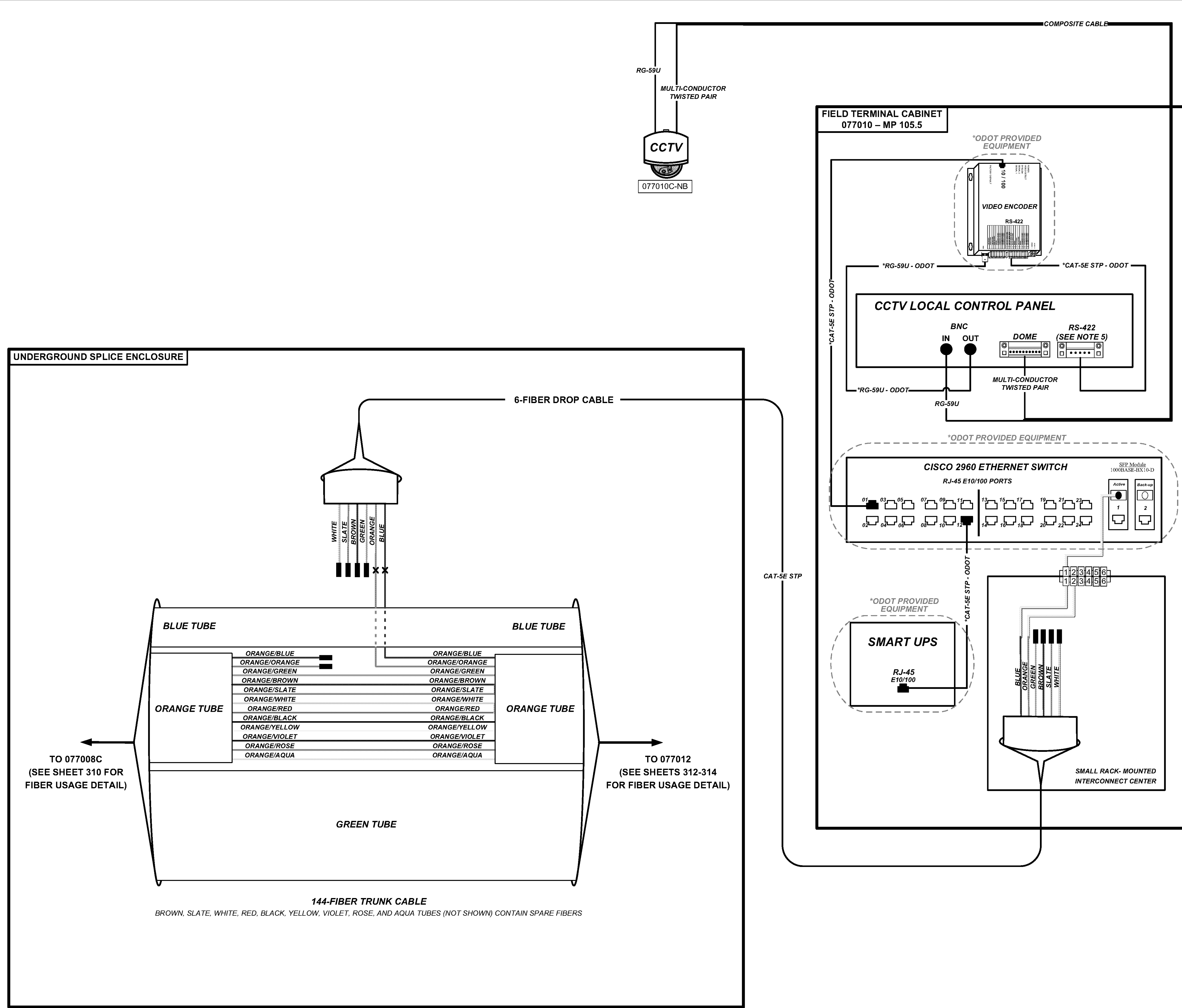
**NOTES**

1. MAXIMUM SPLICE LOSS SHALL BE 0.1 dB
2. NO INTERMEDIATE SPLICES ALLOWED
3. ALL SPLICES SHALL BE FUSION SPLICES
4. WHEN SPLICING UNDERGROUND, WITH THE EXCEPTION OF 3750 LOCATIONS, ONLY TUBES CONTAINING ALLOCATED FIBERS TO BE SPLICED SHALL BE CUT. ALL OTHER TUBES SHALL RUN UN-CUT BETWEEN CABINETS
5. TERMINATE CAT-5E STP ON SCREW TERMINALS OF APPROPRIATE SERIAL CONNECTOR HOUSING.
6. ODOT TO INSTALL ALL CISCO PRODUCTS, TERMINAL SERVERS, UPS, AND ALL ASSOCIATED CABLING THAT CONNECTS ODOT PROVIDED EQUIPMENT.




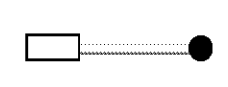
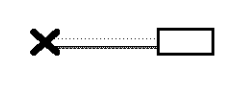


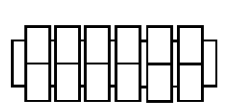
**144-FIBER TRUNK CABLE**  
BROWN, SLATE, WHITE, RED, BLACK, YELLOW, VIOLET, ROSE, AND AQUA TUBES (NOT SHOWN) CONTAIN SPARE FIBERS

TO 077004  
(SEE SHEET 308 FOR  
FIBER USAGE DETAIL)

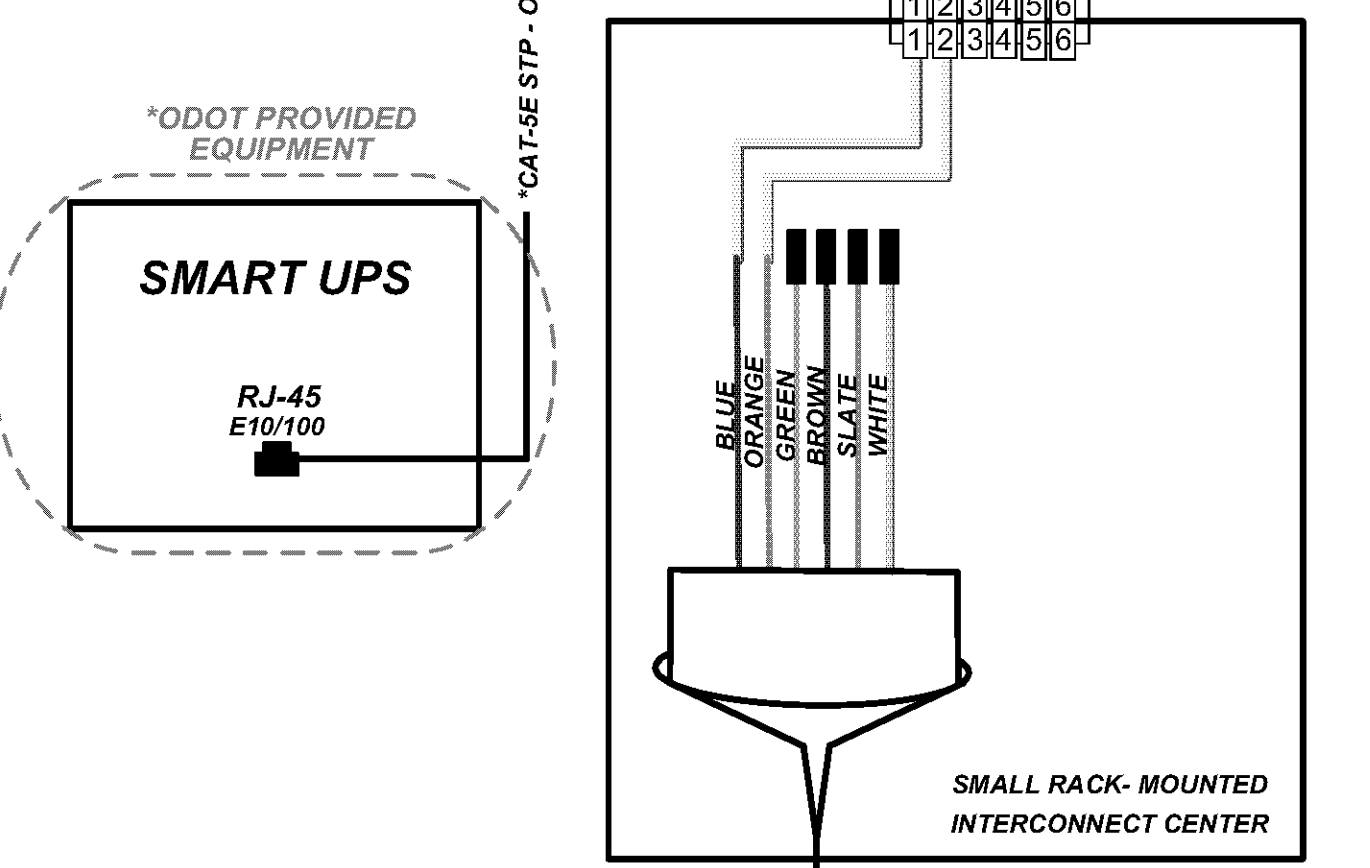
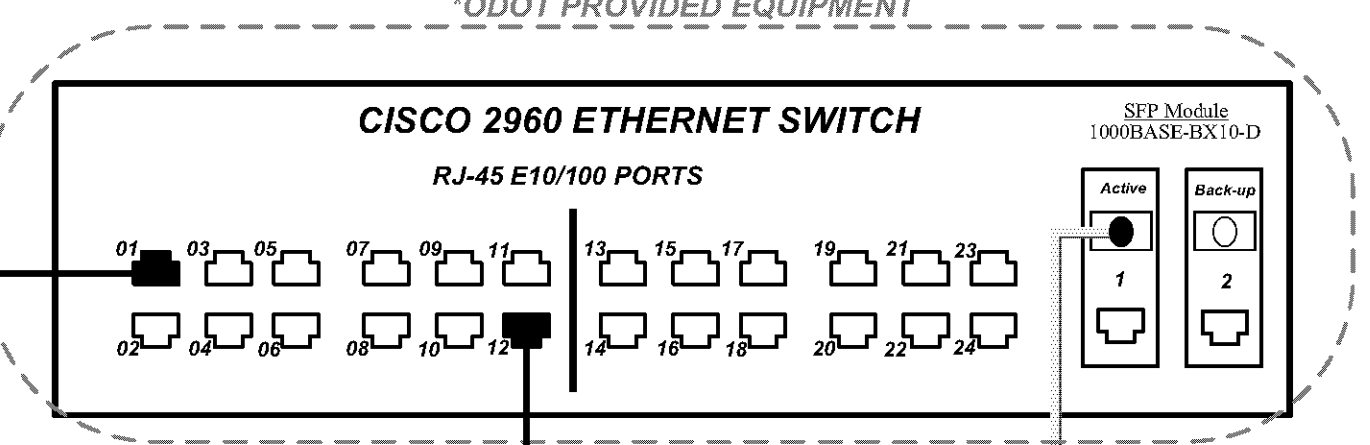
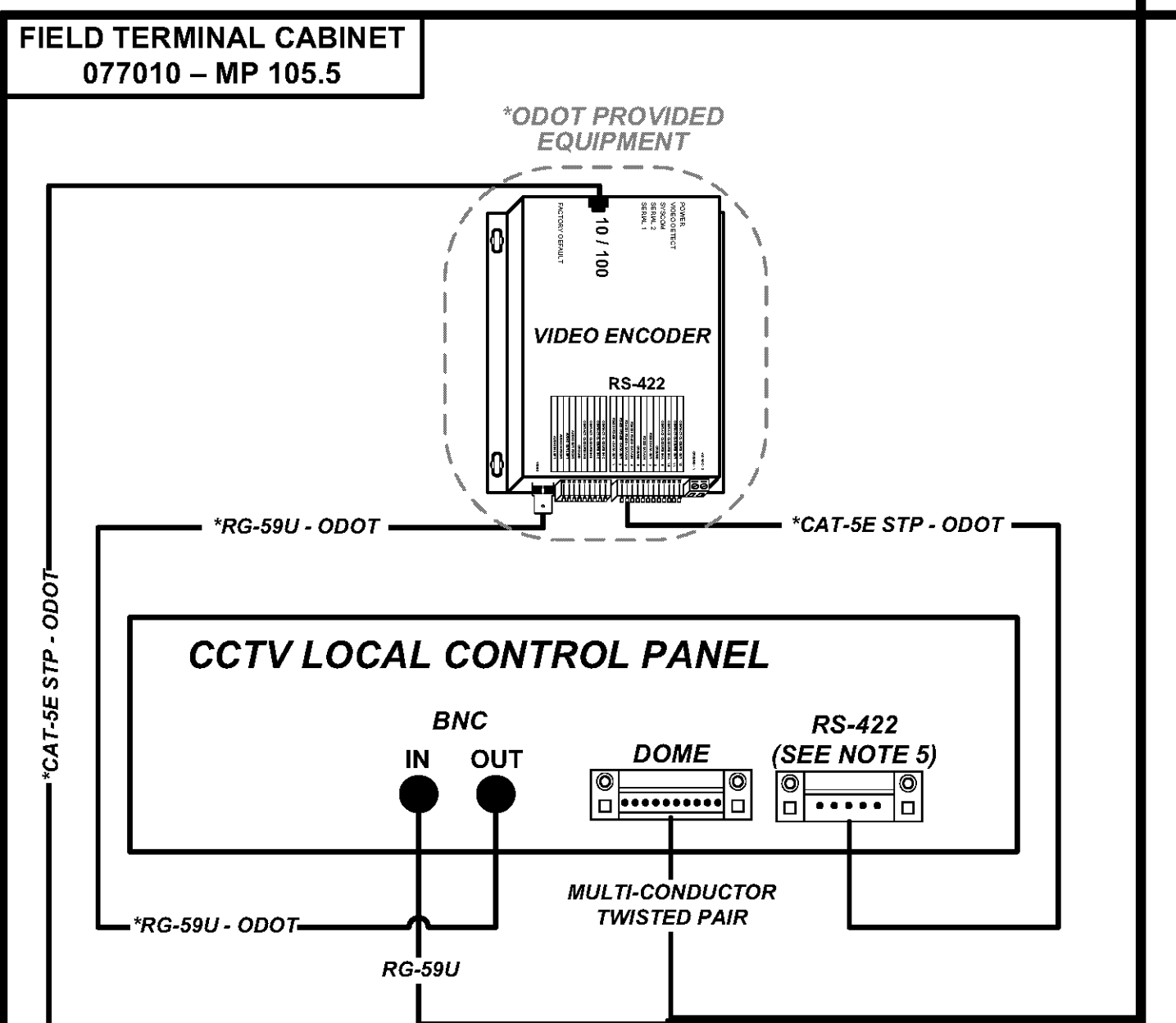
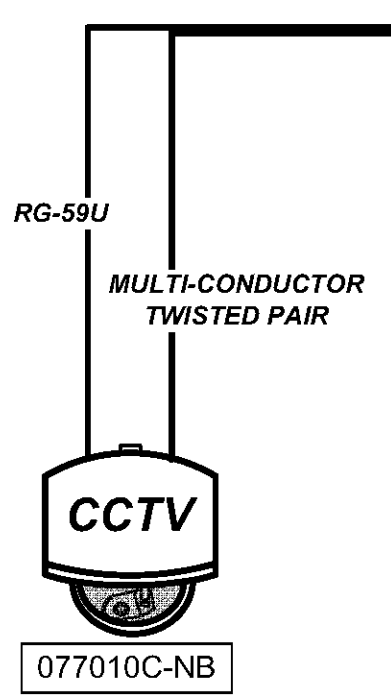
TO 077010  
(SEE SHEET 311 FOR  
FIBER USAGE DETAIL)



**KEY**

-  VEHICLE DETECTOR  
DEVICE NUMBER FOLLOWED BY 'D'
-  CCTV CAMERA  
DEVICE NUMBER FOLLOWED BY 'C'
-  DMS  
DYNAMIC MESSAGE SIGN  
DEVICE NUMBER FOLLOWED BY 'S'
-  EQUIPMENT CONNECTION  
FIBER OPTIC JUMPER
-  FIBER OPTIC PIGTAIL
-  EXISTING/PROPOSED  
BARE FIBER LEFT  
COILED IN SPLICE TRAY
-  EXISTING/PROPOSED  
FUSION SPLICE
-  CONNECTOR MODULE

- NOTES**
1. MAXIMUM SPLICE LOSS SHALL BE 0.1 dB
  2. NO INTERMEDIATE SPLICES ALLOWED
  3. ALL SPLICES SHALL BE FUSION SPLICES
  4. WHEN SPLICING UNDERGROUND, WITH THE EXCEPTION OF 3750 LOCATIONS, ONLY TUBES CONTAINING ALLOCATED FIBERS TO BE SPLICED SHALL BE CUT. ALL OTHER TUBES SHALL RUN UN-CUT BETWEEN CABINETS
  5. TERMINATE CAT-5E STP ON SCREW TERMINALS OF APPROPRIATE SERIAL CONNECTOR HOUSING.
  6. ODOT TO INSTALL ALL CISCO PRODUCTS, TERMINAL SERVERS, UPS, AND ALL ASSOCIATED CABLING THAT CONNECTS ODOT PROVIDED EQUIPMENT.



**144-FIBER TRUNK CABLE**  
BROWN, SLATE, WHITE, RED, BLACK, YELLOW, VIOLET, ROSE, AND AQUA TUBES (NOT SHOWN) CONTAIN SPARE FIBERS

**UNDERGROUND SPLICE ENCLOSURE**

**FIELD TERMINAL CABINET**  
077010 - MP 105.5

\*ODOT PROVIDED EQUIPMENT

**CCTV LOCAL CONTROL PANEL**

**CISCO 2960 ETHERNET SWITCH**  
RJ-45 E10/100 PORTS

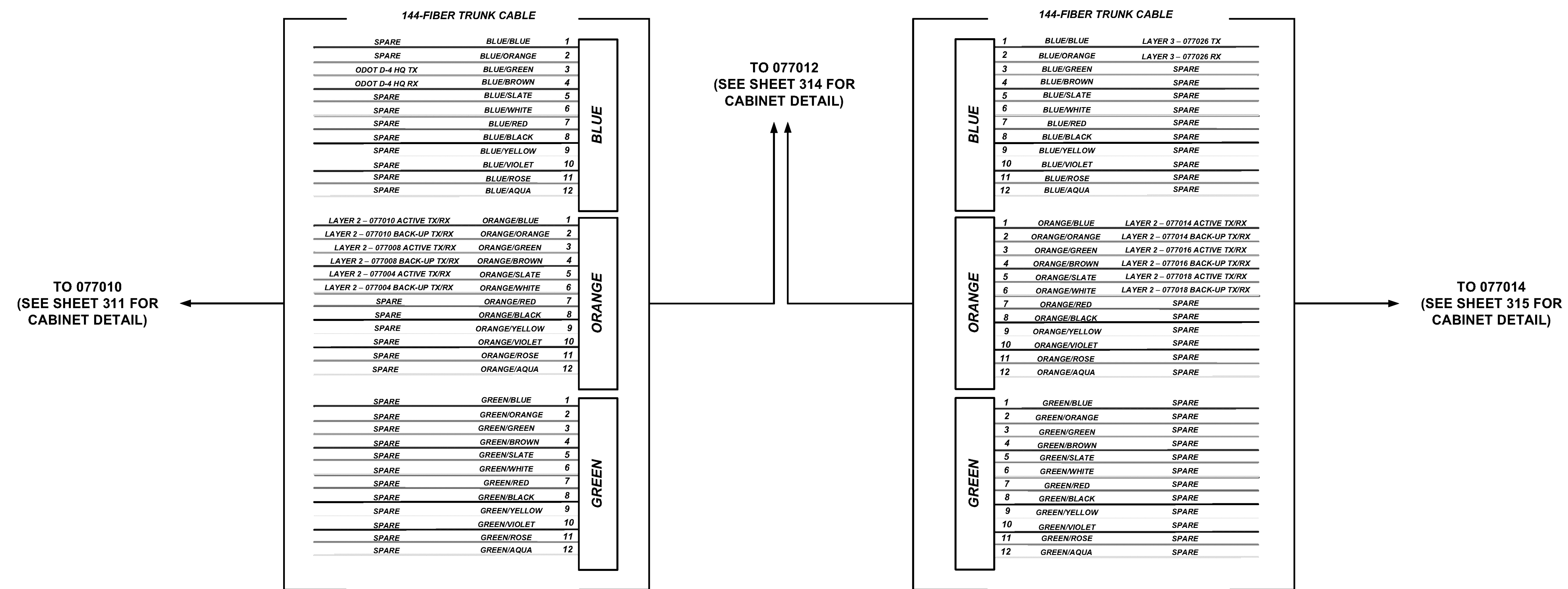
**SMART UPS**  
RJ-45 E10/100

**SMALL RACK-MOUNTED INTERCONNECT CENTER**

TO 077008C  
(SEE SHEET 310 FOR FIBER USAGE DETAIL)

TO 077012  
(SEE SHEETS 312-314 FOR FIBER USAGE DETAIL)




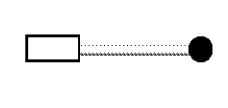
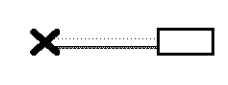


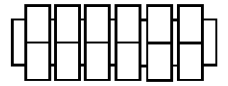




**NOTES**

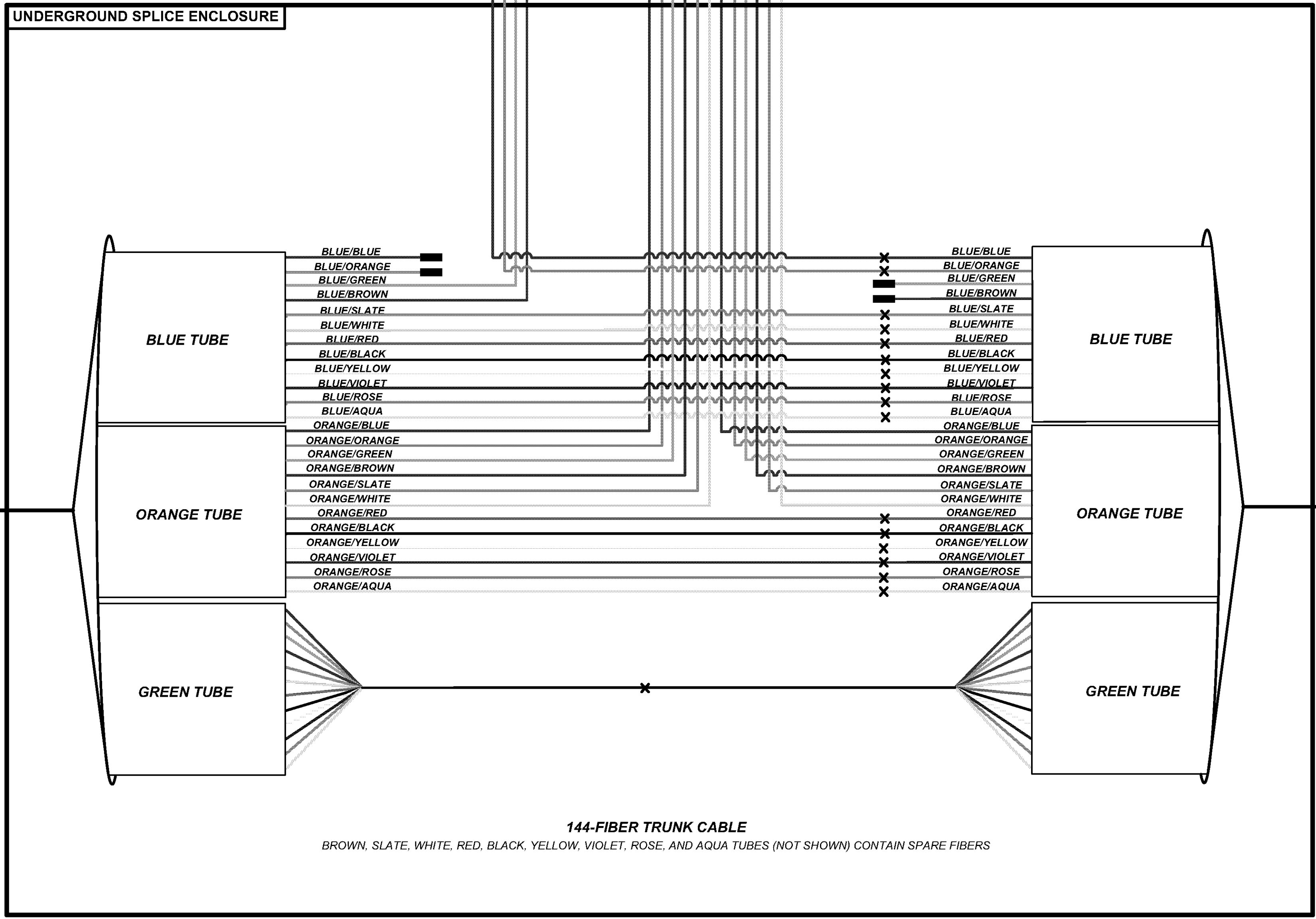
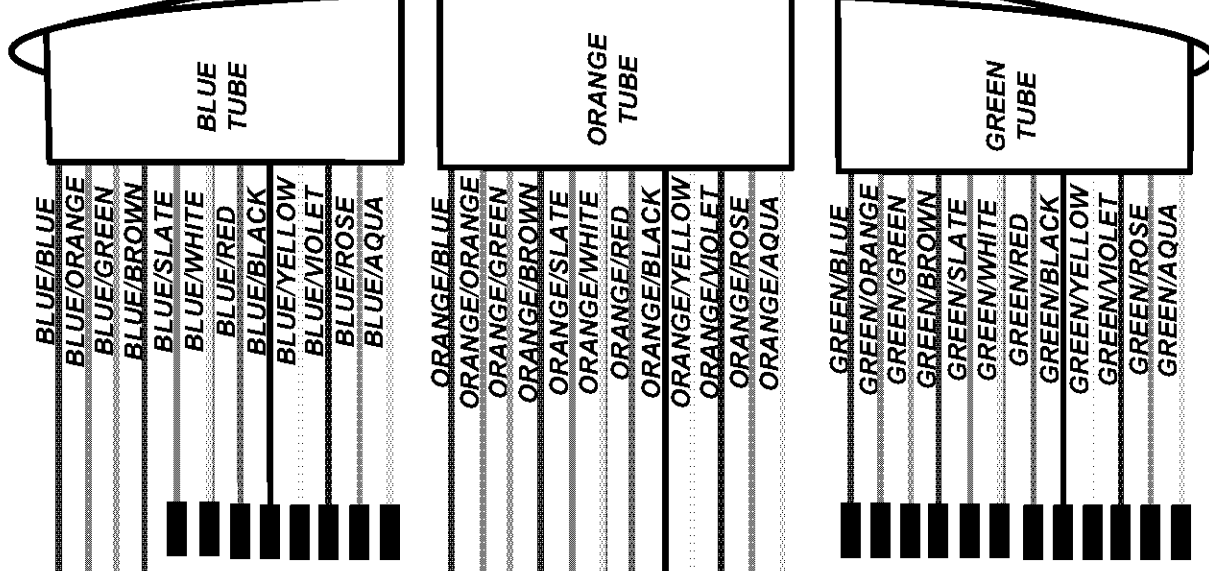
1. FIBERS NOT SHOWN SHALL ARE TO BE SPARE UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THIS INCLUDES FIBERS IN THE BROWN, SLATE, WHITE, RED, BLACK, YELLOW, VIOLET, ROSE, AND AQUA TUBES

**KEY**

-  VEHICLE DETECTOR  
DEVICE NUMBER FOLLOWED BY 'D'
-  CCTV CAMERA  
DEVICE NUMBER FOLLOWED BY 'C'
-  DMS  
DYNAMIC MESSAGE SIGN  
DEVICE NUMBER FOLLOWED BY 'S'
-  EQUIPMENT CONNECTION  
FIBER OPTIC JUMPER
-  FIBER OPTIC PIGTAIL
-  EXISTING/PROPOSED  
BARE FIBER LEFT  
COILED IN SPlice TRAY
-  EXISTING/PROPOSED  
FUSION SPLICE
-  CONNECTOR MODULE

TO 077012  
COMMUNICATIONS CABINET  
(SEE SHEET 314)

36-FIBER DROP CABLE

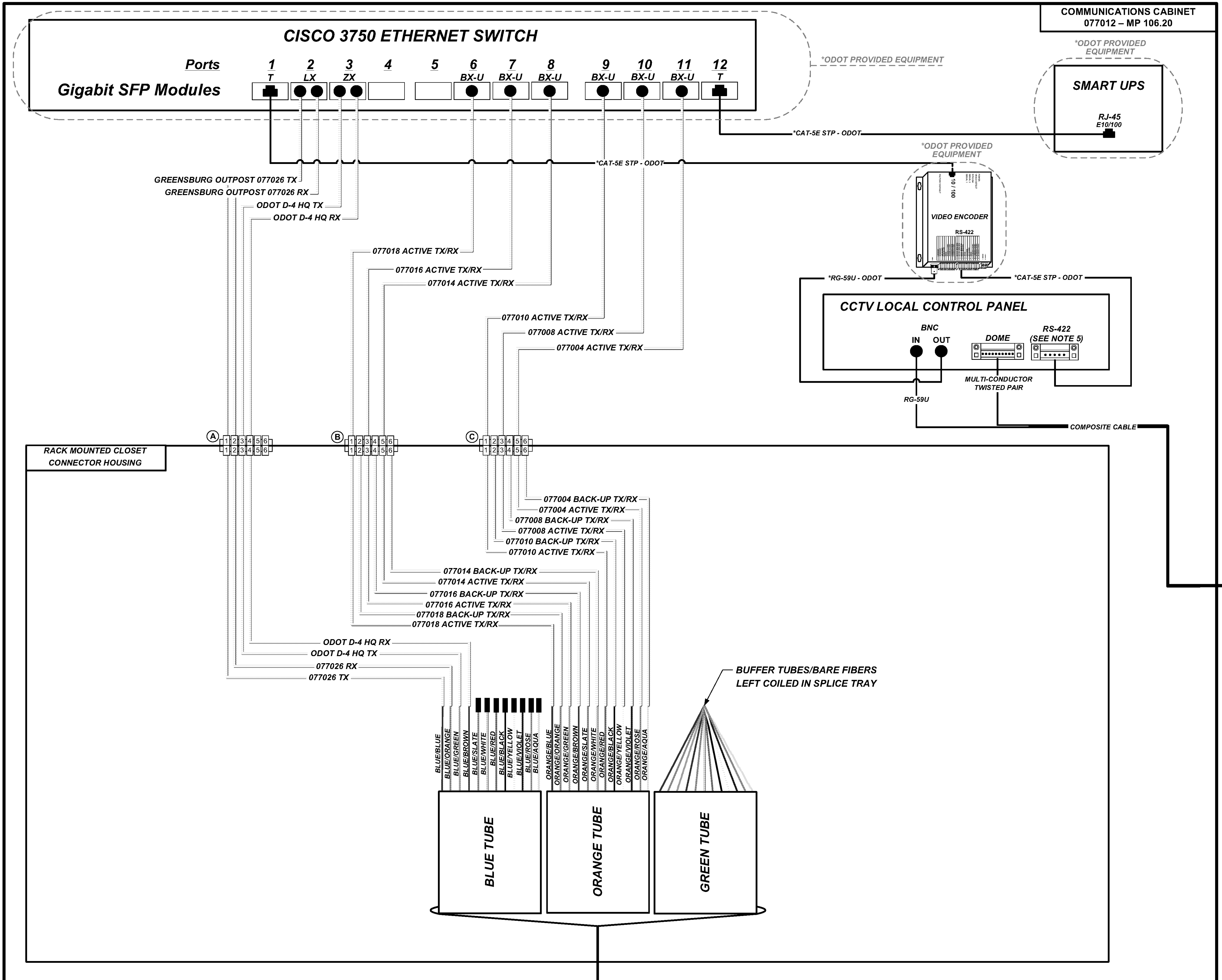


144-FIBER TRUNK CABLE  
TO 077010  
(SEE SHEET 311 FOR  
FIBER USAGE DETAIL)

144-FIBER TRUNK CABLE  
TO 077014  
(SEE SHEET 315 FOR  
FIBER USAGE DETAIL)

144-FIBER TRUNK CABLE  
BROWN, SLATE, WHITE, RED, BLACK, YELLOW, VIOLET, ROSE, AND AQUA TUBES (NOT SHOWN) CONTAIN SPARE FIBERS

- NOTES**
1. MAXIMUM SPLICE LOSS SHALL BE 0.1 dB
  2. NO INTERMEDIATE SPLICES ALLOWED
  3. ALL SPLICES SHALL BE FUSION SPLICES
  4. WHEN SPLICING UNDERGROUND, WITH THE EXCEPTION OF 3750 LOCATIONS, ONLY TUBES CONTAINING ALLOCATED FIBERS TO BE SPLICED SHALL BE CUT. ALL OTHER TUBES SHALL RUN UN-CUT BETWEEN CABINETS



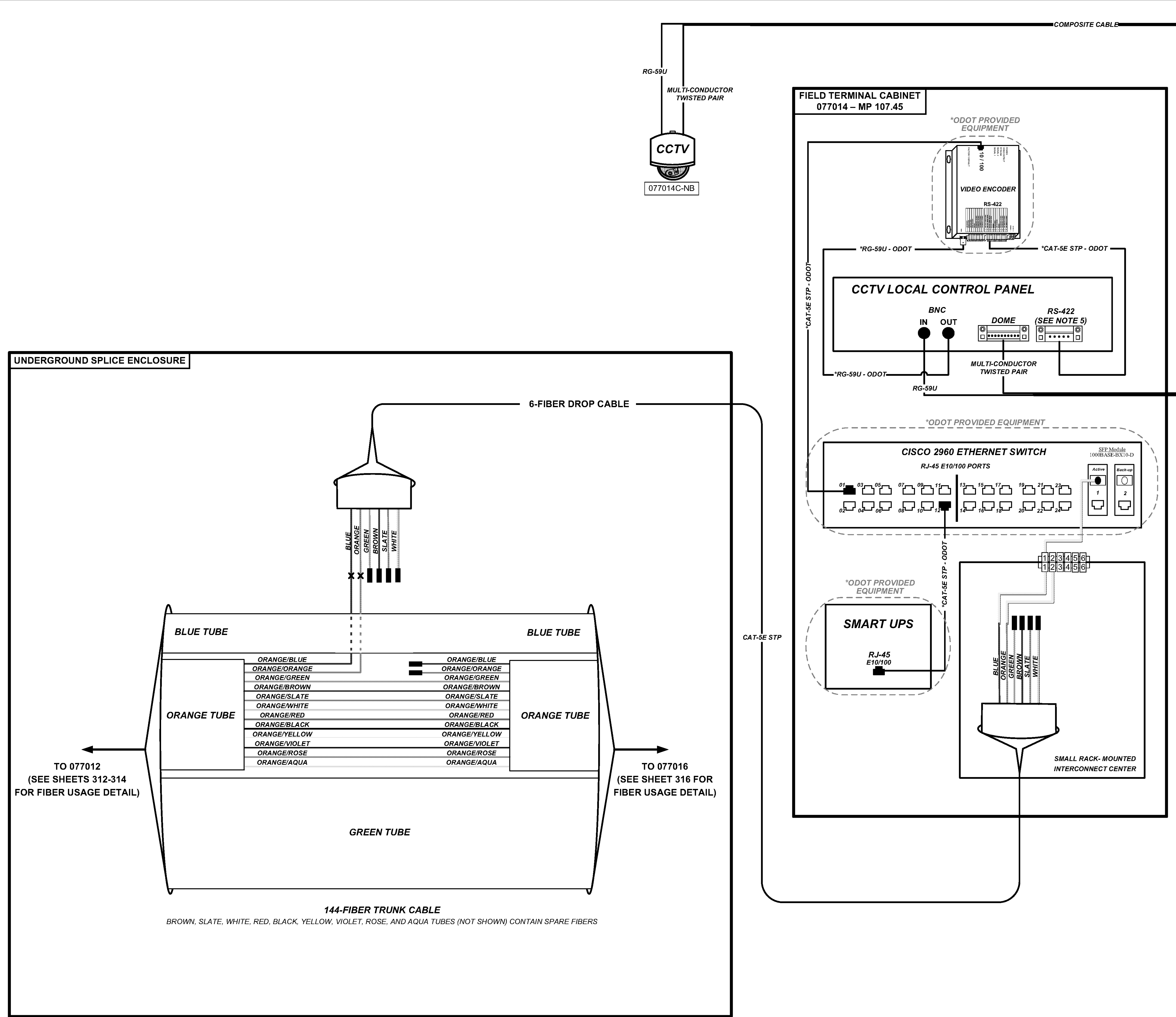
**KEY**

- VEHICLE DETECTOR  
DEVICE NUMBER FOLLOWED BY 'D'
- CCTV CAMERA  
DEVICE NUMBER FOLLOWED BY 'C'
- DMS  
DYNAMIC MESSAGE SIGN  
DEVICE NUMBER FOLLOWED BY 'S'
- EQUIPMENT CONNECTION  
FIBER OPTIC JUMPER
- FIBER OPTIC PIGTAIL
- EXISTING/PROPOSED  
BARE FIBER LEFT  
COILED IN SPLICE TRAY
- EXISTING/PROPOSED  
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  3. ALL SPLICES SHALL BE FUSION SPLICES
  4. WHEN SPLICING UNDERGROUND, WITH THE EXCEPTION OF 3750 LOCATIONS, ONLY TUBES CONTAINING ALLOCATED FIBERS TO BE SPLICED SHALL BE CUT. ALL OTHER TUBES SHALL RUN UN-CUT BETWEEN CABINETS
  5. TERMINATE CAT-5E STP ON SCREW TERMINALS OF APPROPRIATE SERIAL CONNECTOR HOUSING.
  6. ODOT TO INSTALL ALL CISCO PRODUCTS, TERMINAL SERVERS, UPS, AND ALL ASSOCIATED CABLING THAT CONNECTS ODOT PROVIDED EQUIPMENT.

FIBER ASSIGNMENT DETAIL DRAWING WITH ACTUAL FIBER USAGE SHOWN  
COMMUNICATIONS CABINET 077012

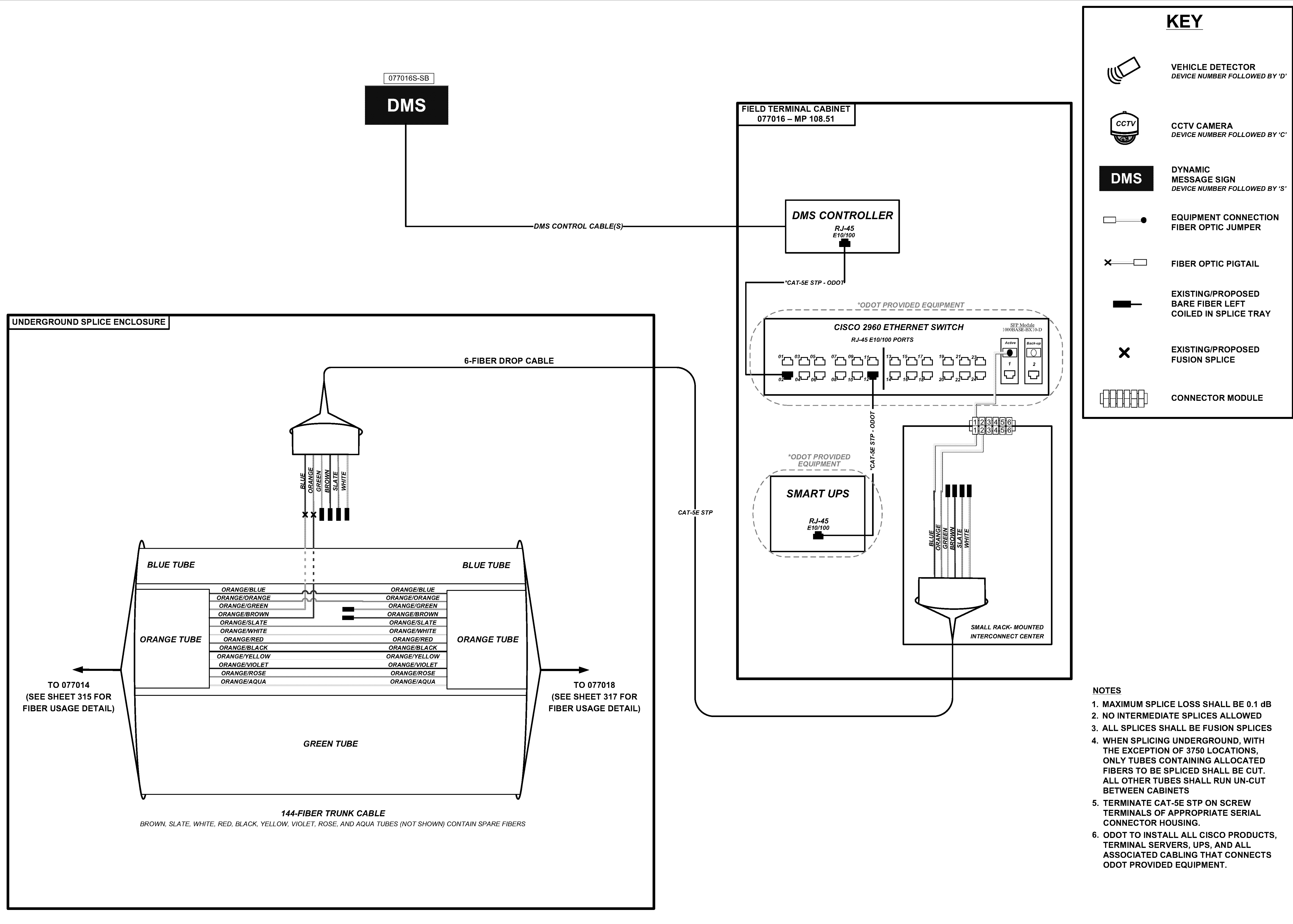
STA-SUM ITS



**KEY**

- VEHICLE DETECTOR  
DEVICE NUMBER FOLLOWED BY 'D'
- CCTV CAMERA  
DEVICE NUMBER FOLLOWED BY 'C'
- DMS  
DYNAMIC MESSAGE SIGN  
DEVICE NUMBER FOLLOWED BY 'S'
- EQUIPMENT CONNECTION FIBER OPTIC JUMPER
- FIBER OPTIC PIGTAIL
- EXISTING/PROPOSED BARE FIBER LEFT COILED IN SPLICE TRAY
- EXISTING/PROPOSED FUSION SPLICE
- CONNECTOR MODULE

- NOTES**
1. MAXIMUM SPLICE LOSS SHALL BE 0.1 dB
  2. NO INTERMEDIATE SPLICES ALLOWED
  3. ALL SPLICES SHALL BE FUSION SPLICES
  4. WHEN SPLICING UNDERGROUND, WITH THE EXCEPTION OF 3750 LOCATIONS, ONLY TUBES CONTAINING ALLOCATED FIBERS TO BE SPLICED SHALL BE CUT. ALL OTHER TUBES SHALL RUN UN-CUT BETWEEN CABINETS
  5. TERMINATE CAT-5E STP ON SCREW TERMINALS OF APPROPRIATE SERIAL CONNECTOR HOUSING.
  6. ODOT TO INSTALL ALL CISCO PRODUCTS, TERMINAL SERVERS, UPS, AND ALL ASSOCIATED CABLING THAT CONNECTS ODOT PROVIDED EQUIPMENT.



077016S-SB

**DMS**

DMS CONTROL CABLE(S)

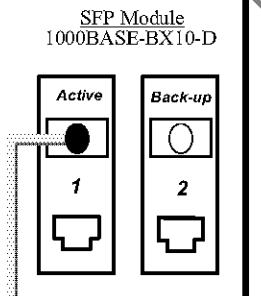
FIELD TERMINAL CABINET  
077016 - MP 108.51

**DMS CONTROLLER**  
RJ-45  
E10/100

\*CAT-5E STP - ODOT

\*ODOT PROVIDED EQUIPMENT

**CISCO 2960 ETHERNET SWITCH**  
RJ-45 E10/100 PORTS



\*ODOT PROVIDED EQUIPMENT

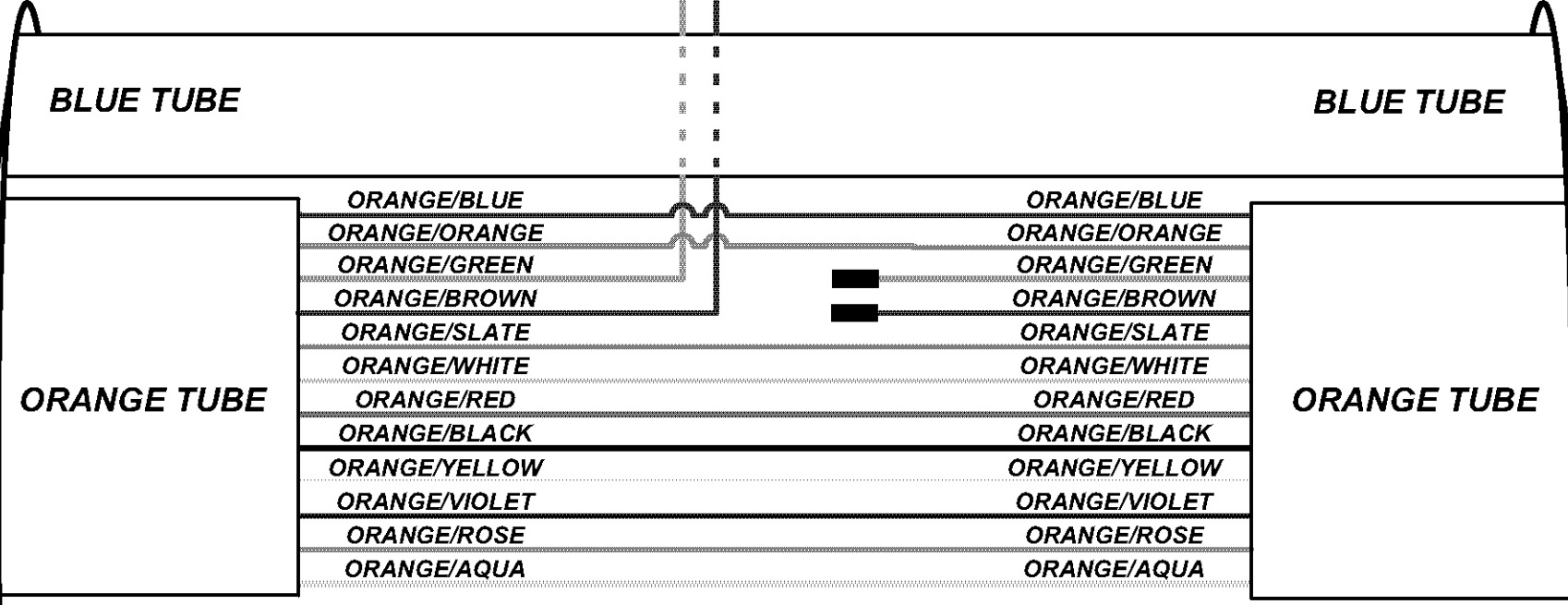
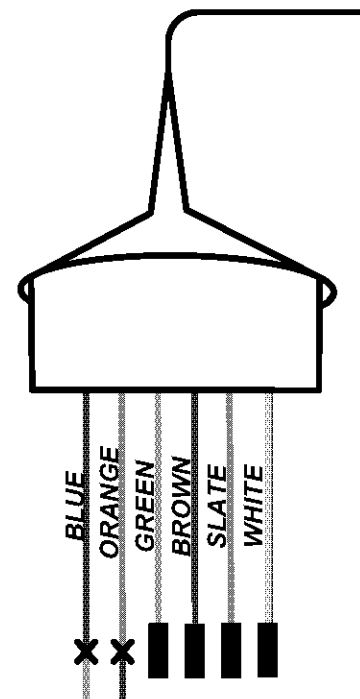
**SMART UPS**  
RJ-45  
E10/100

\*CAT-5E STP - ODOT

SMALL RACK-MOUNTED  
INTERCONNECT CENTER

UNDERGROUND SPLICE ENCLOSURE

6-FIBER DROP CABLE



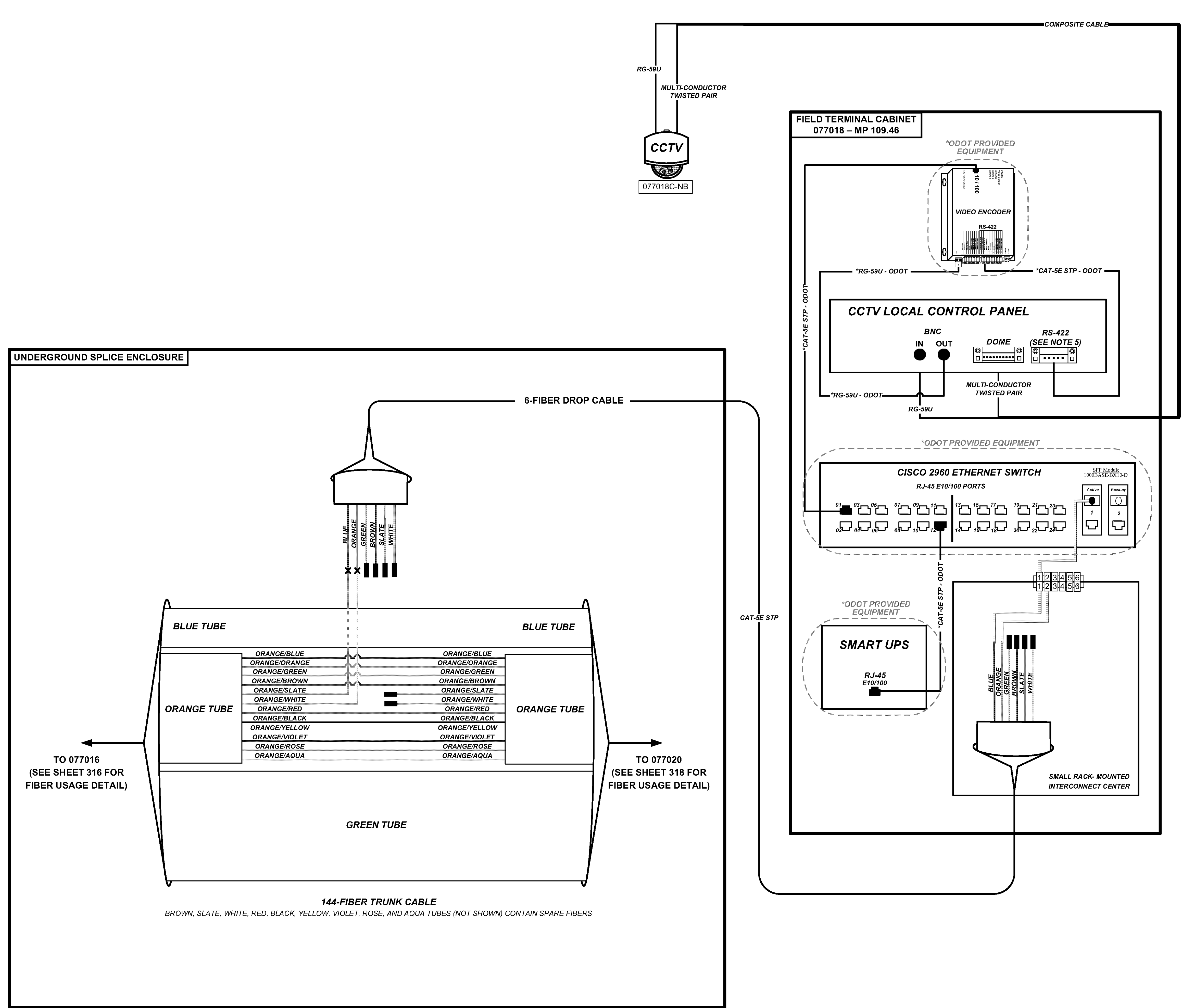
TO 077014  
(SEE SHEET 315 FOR  
FIBER USAGE DETAIL)

TO 077018  
(SEE SHEET 317 FOR  
FIBER USAGE DETAIL)




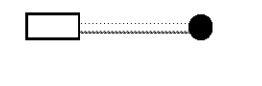
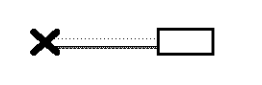


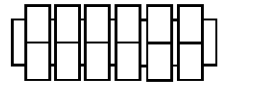
144-FIBER TRUNK CABLE

BROWN, SLATE, WHITE, RED, BLACK, YELLOW, VIOLET, ROSE, AND AQUA TUBES (NOT SHOWN) CONTAIN SPARE FIBERS

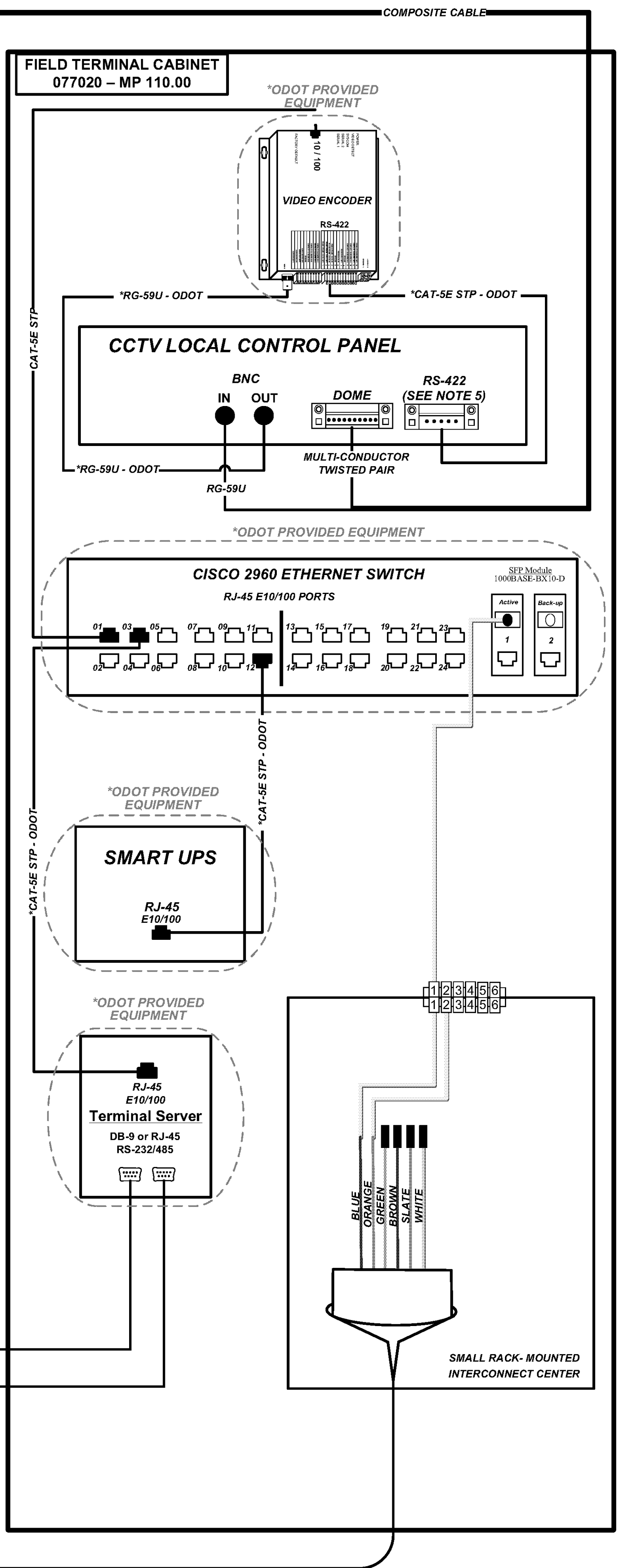
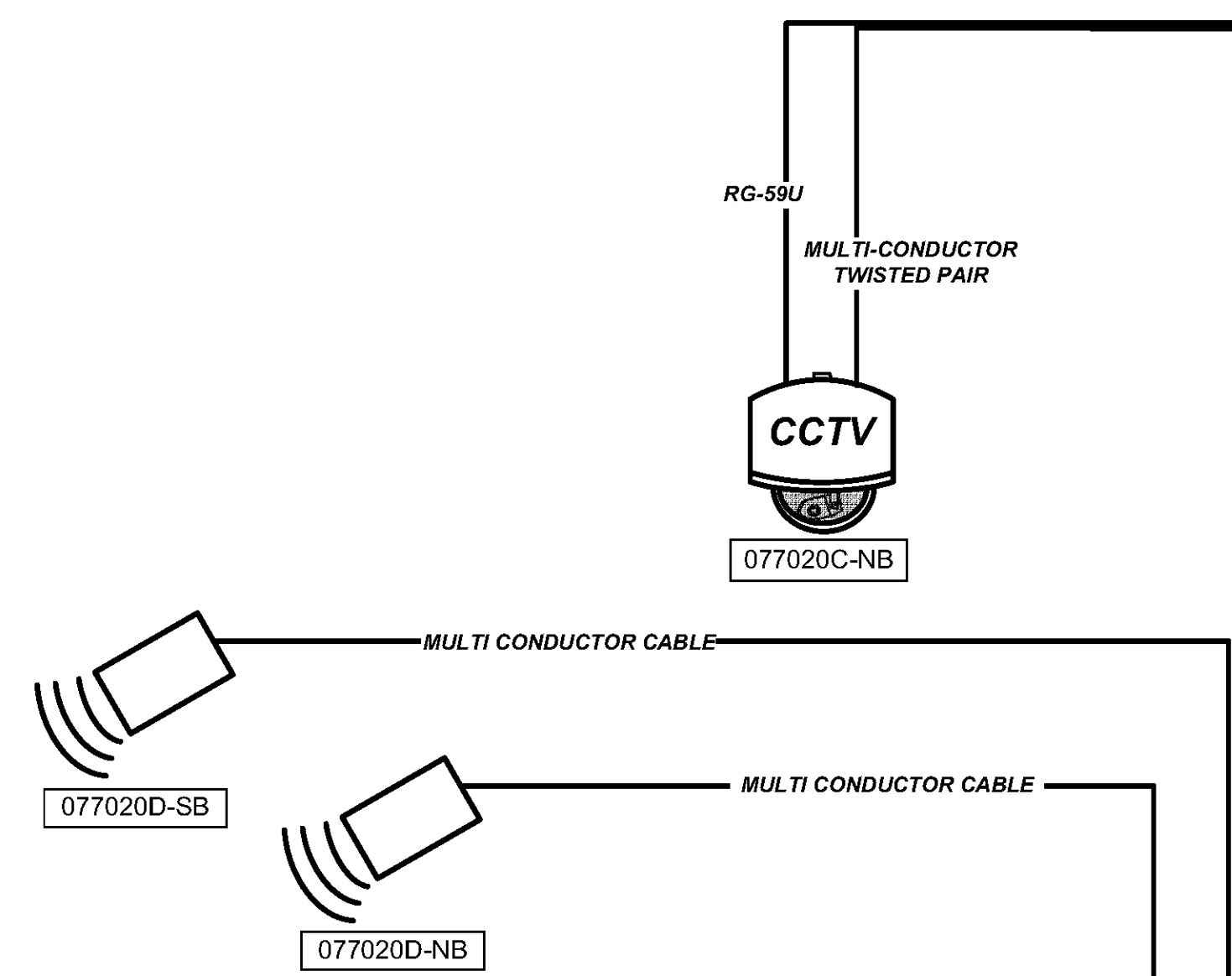
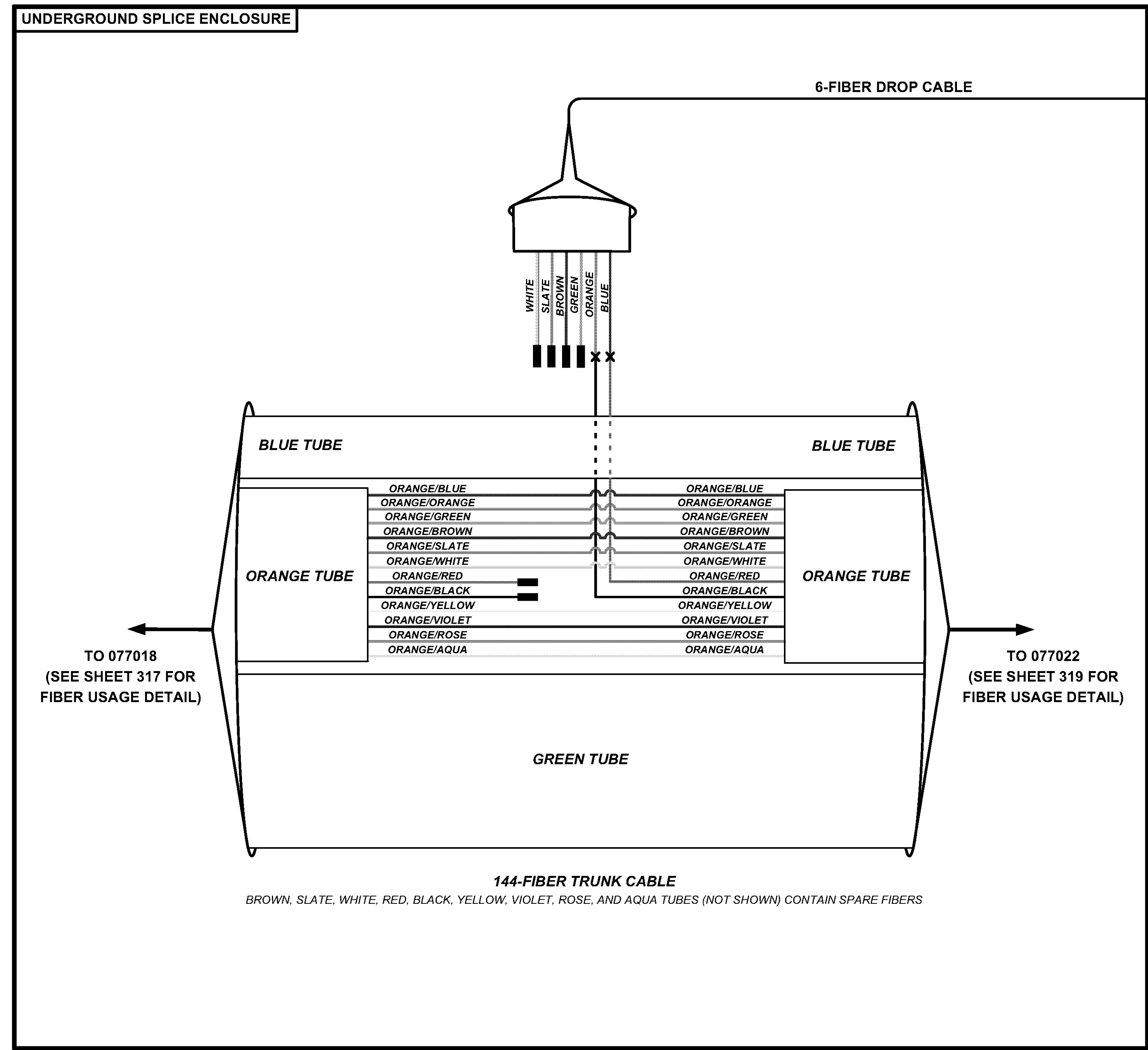




**KEY**

-  VEHICLE DETECTOR  
DEVICE NUMBER FOLLOWED BY 'D'
-  CCTV CAMERA  
DEVICE NUMBER FOLLOWED BY 'C'
-  DMS  
DYNAMIC MESSAGE SIGN  
DEVICE NUMBER FOLLOWED BY 'S'
-  EQUIPMENT CONNECTION  
FIBER OPTIC JUMPER
-  FIBER OPTIC PIGTAIL
-  EXISTING/PROPOSED  
BARE FIBER LEFT  
COILED IN SPLICE TRAY
-  EXISTING/PROPOSED  
FUSION SPLICE
-  CONNECTOR MODULE

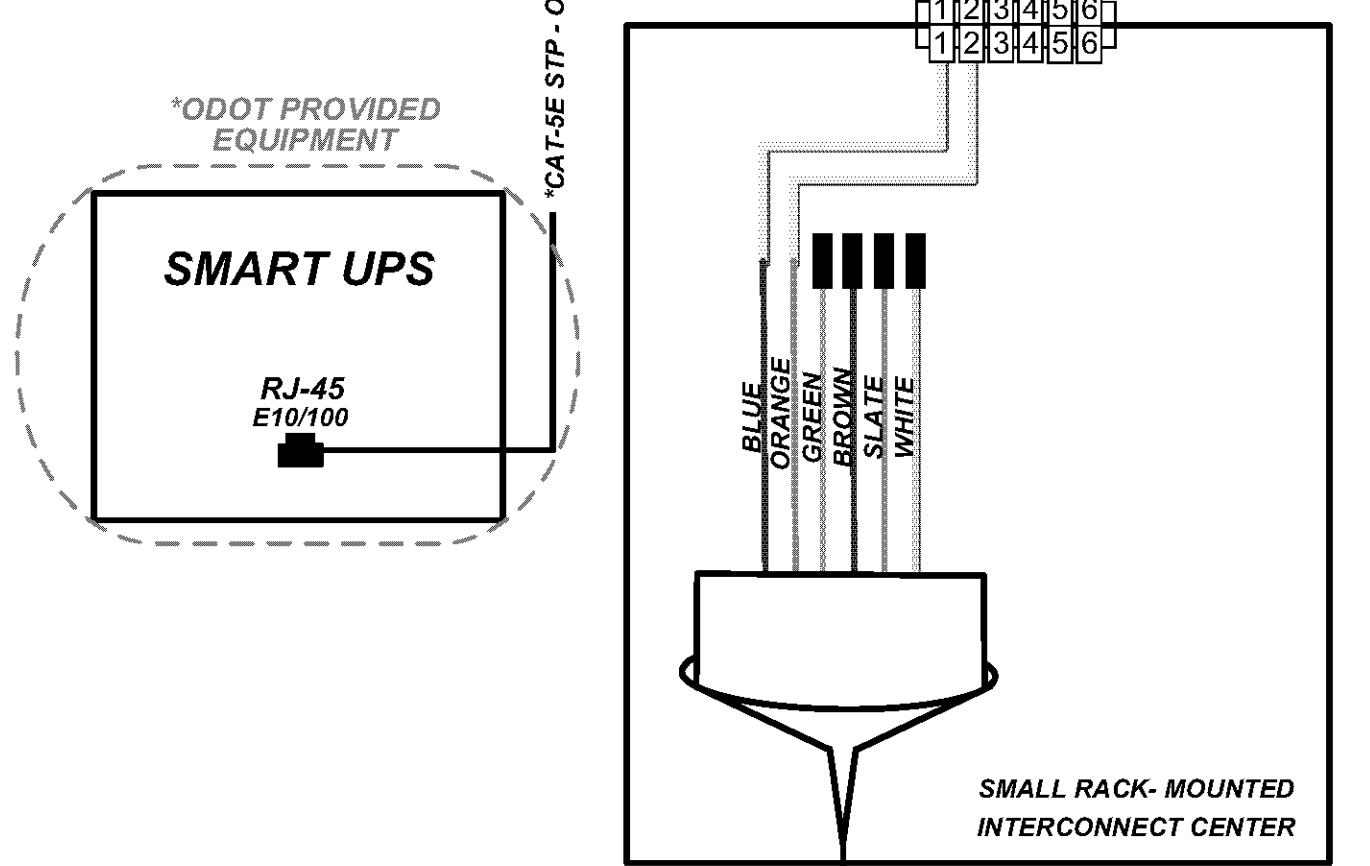
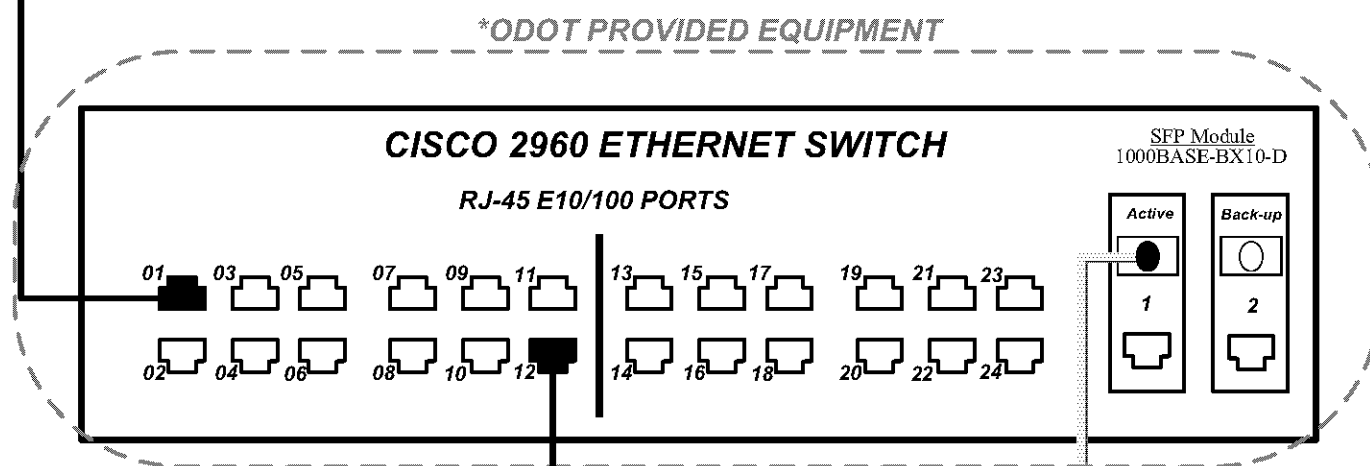
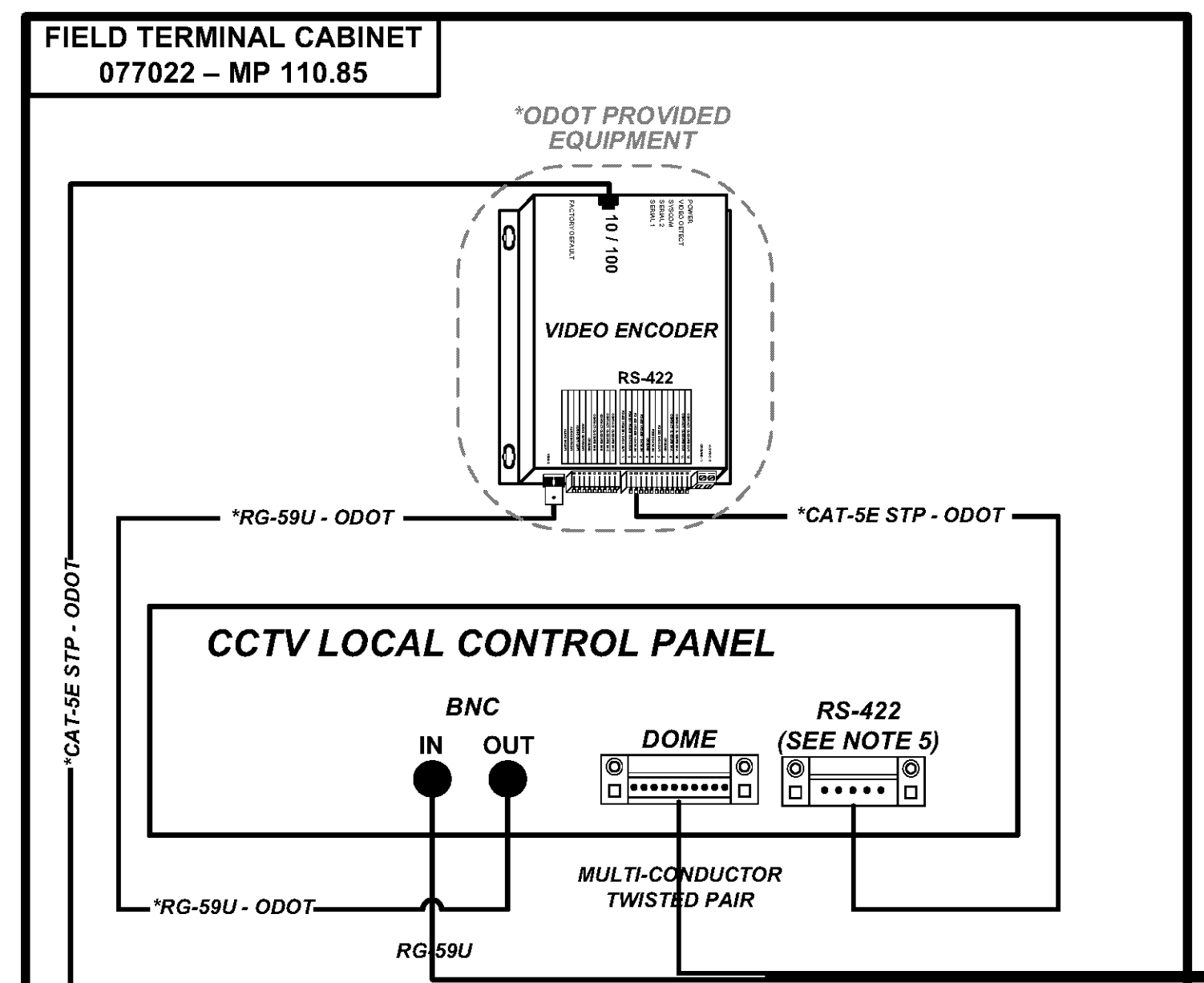
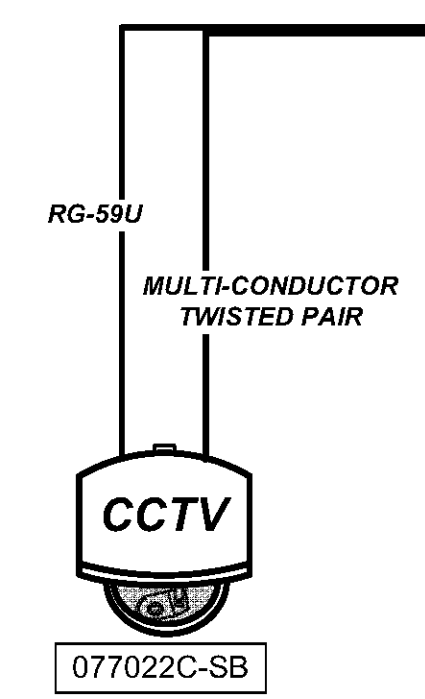
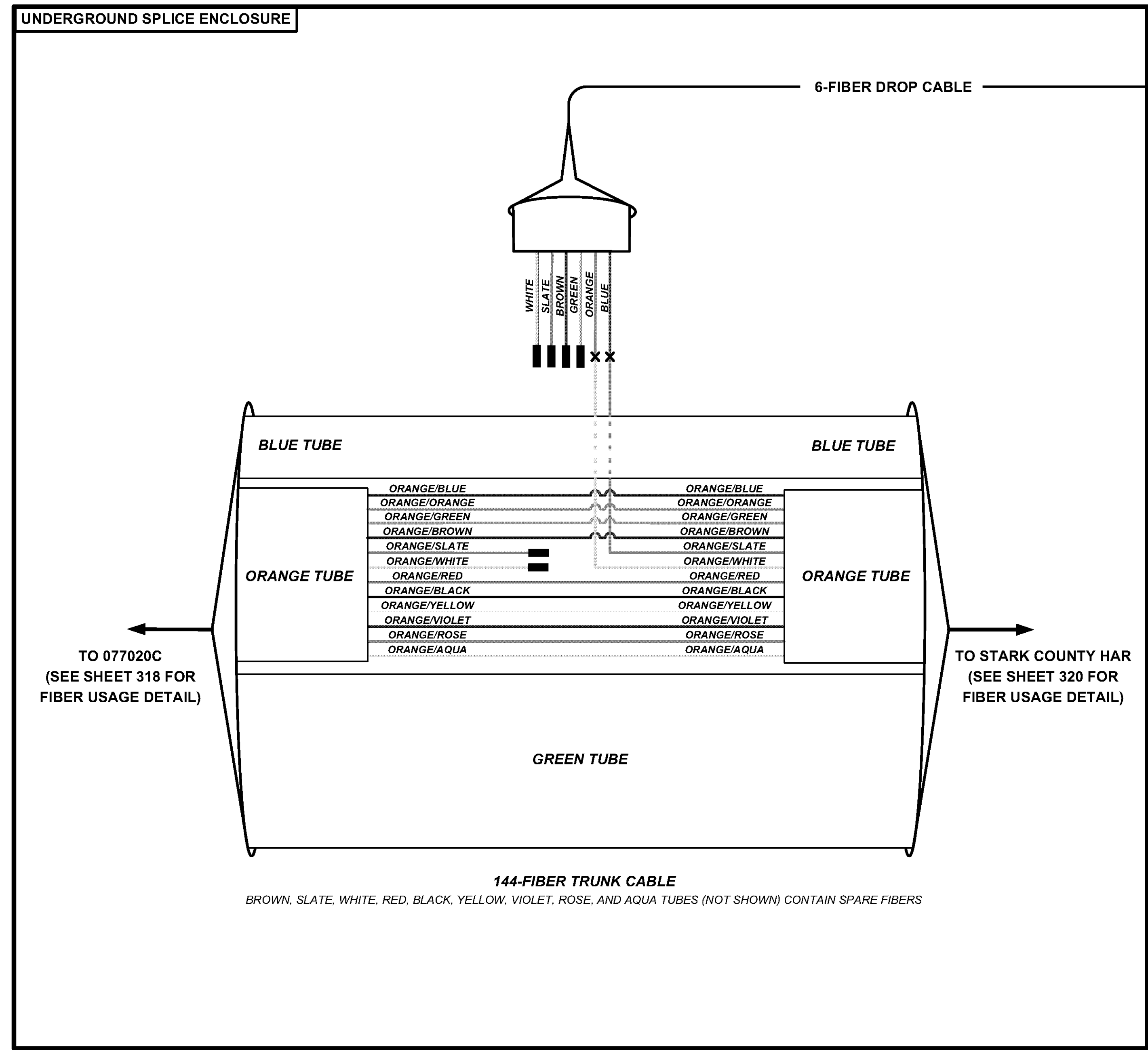
- NOTES**
1. MAXIMUM SPLICE LOSS SHALL BE 0.1 dB
  2. NO INTERMEDIATE SPLICES ALLOWED
  3. ALL SPLICES SHALL BE FUSION SPLICES
  4. WHEN SPLICING UNDERGROUND, WITH THE EXCEPTION OF 3750 LOCATIONS, ONLY TUBES CONTAINING ALLOCATED FIBERS TO BE SPLICED SHALL BE CUT. ALL OTHER TUBES SHALL RUN UN-CUT BETWEEN CABINETS
  5. TERMINATE CAT-5E STP ON SCREW TERMINALS OF APPROPRIATE SERIAL CONNECTOR HOUSING.
  6. ODOT TO INSTALL ALL CISCO PRODUCTS, TERMINAL SERVERS, UPS, AND ALL ASSOCIATED CABLING THAT CONNECTS ODOT PROVIDED EQUIPMENT.



**KEY**

- VEHICLE DETECTOR  
DEVICE NUMBER FOLLOWED BY 'D'
- CCTV CAMERA  
DEVICE NUMBER FOLLOWED BY 'C'
- DMS** DYNAMIC MESSAGE SIGN  
DEVICE NUMBER FOLLOWED BY 'S'
- EQUIPMENT CONNECTION  
FIBER OPTIC JUMPER
- FIBER OPTIC PIGTAIL
- EXISTING/PROPOSED BARE FIBER LEFT  
COILED IN SPLICE TRAY
- EXISTING/PROPOSED FUSION SPLICE
- CONNECTOR MODULE

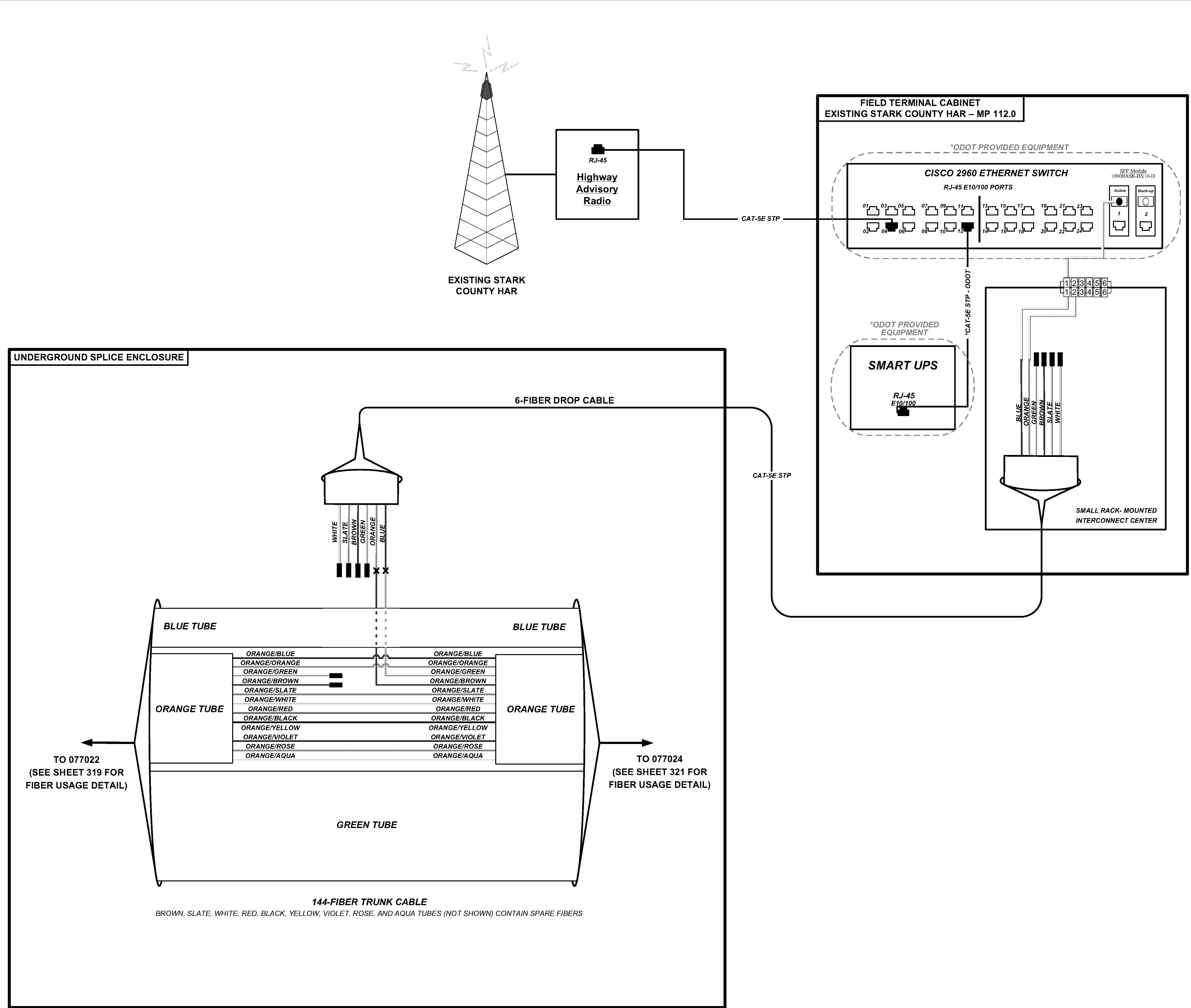
- NOTES**
1. MAXIMUM SPLICE LOSS SHALL BE 0.1 dB
  2. NO INTERMEDIATE SPLICES ALLOWED
  3. ALL SPLICES SHALL BE FUSION SPLICES
  4. WHEN SPLICING UNDERGROUND, WITH THE EXCEPTION OF 3750 LOCATIONS, ONLY TUBES CONTAINING ALLOCATED FIBERS TO BE SPLICED SHALL BE CUT. ALL OTHER TUBES SHALL RUN UN-CUT BETWEEN CABINETS
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  6. ODOT TO INSTALL ALL CISCO PRODUCTS, TERMINAL SERVERS, UPS, AND ALL ASSOCIATED CABLING THAT CONNECTS ODOT PROVIDED EQUIPMENT.






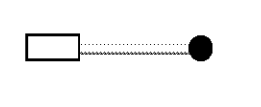
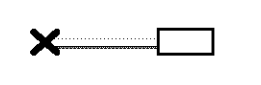


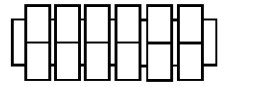
**KEY**

- VEHICLE DETECTOR  
DEVICE NUMBER FOLLOWED BY 'D'
- CCTV CAMERA  
DEVICE NUMBER FOLLOWED BY 'C'
- DMS  
DYNAMIC MESSAGE SIGN  
DEVICE NUMBER FOLLOWED BY 'S'
- EQUIPMENT CONNECTION  
FIBER OPTIC JUMPER
- FIBER OPTIC PIGTAIL
- EXISTING/PROPOSED  
BARE FIBER LEFT  
COILED IN SPLICE TRAY
- EXISTING/PROPOSED  
FUSION SPLICE
- CONNECTOR MODULE

- NOTES**
1. MAXIMUM SPLICE LOSS SHALL BE 0.1 dB
  2. NO INTERMEDIATE SPLICES ALLOWED
  3. ALL SPLICES SHALL BE FUSION SPLICES
  4. WHEN SPLICING UNDERGROUND, WITH THE EXCEPTION OF 3750 LOCATIONS, ONLY TUBES CONTAINING ALLOCATED FIBERS TO BE SPLICED SHALL BE CUT. ALL OTHER TUBES SHALL RUN UN-CUT BETWEEN CABINETS
  5. TERMINATE CAT-5E STP ON SCREW TERMINALS OF APPROPRIATE SERIAL CONNECTOR HOUSING.
  6. ODOT TO INSTALL ALL CISCO PRODUCTS, TERMINAL SERVERS, UPS, AND ALL ASSOCIATED CABLING THAT CONNECTS ODOT PROVIDED EQUIPMENT.



**KEY**

-  VEHICLE DETECTOR  
DEVICE NUMBER FOLLOWED BY 'D'
-  CCTV CAMERA  
DEVICE NUMBER FOLLOWED BY 'C'
-  DMS  
DYNAMIC MESSAGE SIGN  
DEVICE NUMBER FOLLOWED BY 'S'
-  EQUIPMENT CONNECTION  
FIBER OPTIC JUMPER
-  FIBER OPTIC PIGTAIL
-  EXISTING/PROPOSED  
BARE FIBER LEFT  
COILED IN SPLICE TRAY
-  EXISTING/PROPOSED  
FUSION SPLICE
-  CONNECTOR MODULE

- NOTES**
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  5. TERMINATE CAT-5E STP ON SCREW TERMINALS OF APPROPRIATE SERIAL CONNECTOR HOUSING.
  6. ODOT TO INSTALL ALL CISCO PRODUCTS, TERMINAL SERVERS, UPS, AND ALL ASSOCIATED CABLING THAT CONNECTS ODOT PROVIDED EQUIPMENT.

**144-FIBER TRUNK CABLE**  
BROWN, SLATE, WHITE, RED, BLACK, YELLOW, VIOLET, ROSE, AND AQUA TUBES (NOT SHOWN) CONTAIN SPARE FIBERS

UNDERGROUND SPLICE ENCLOSURE

FIELD TERMINAL CABINET  
EXISTING STARK COUNTY HAR – MP 112.0

\*ODOT PROVIDED EQUIPMENT

CISCO 2960 ETHERNET SWITCH  
RJ-45 E10/100 PORTS

SEP Module  
1000BASE-SX10-D

\*ODOT PROVIDED EQUIPMENT

SMART UPS

RJ-45  
E10/100

SMALL RACK-MOUNTED  
INTERCONNECT CENTER

EXISTING STARK  
COUNTY HAR

RJ-45  
Highway  
Advisory  
Radio

CAT-5E STP

\*CAT-5E STP - ODOT

CAT-5E STP

6-FIBER DROP CABLE

BLUE TUBE

BLUE TUBE

ORANGE TUBE





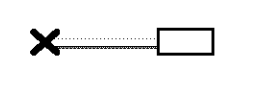


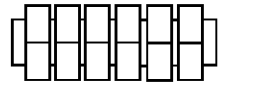
ORANGE TUBE

GREEN TUBE

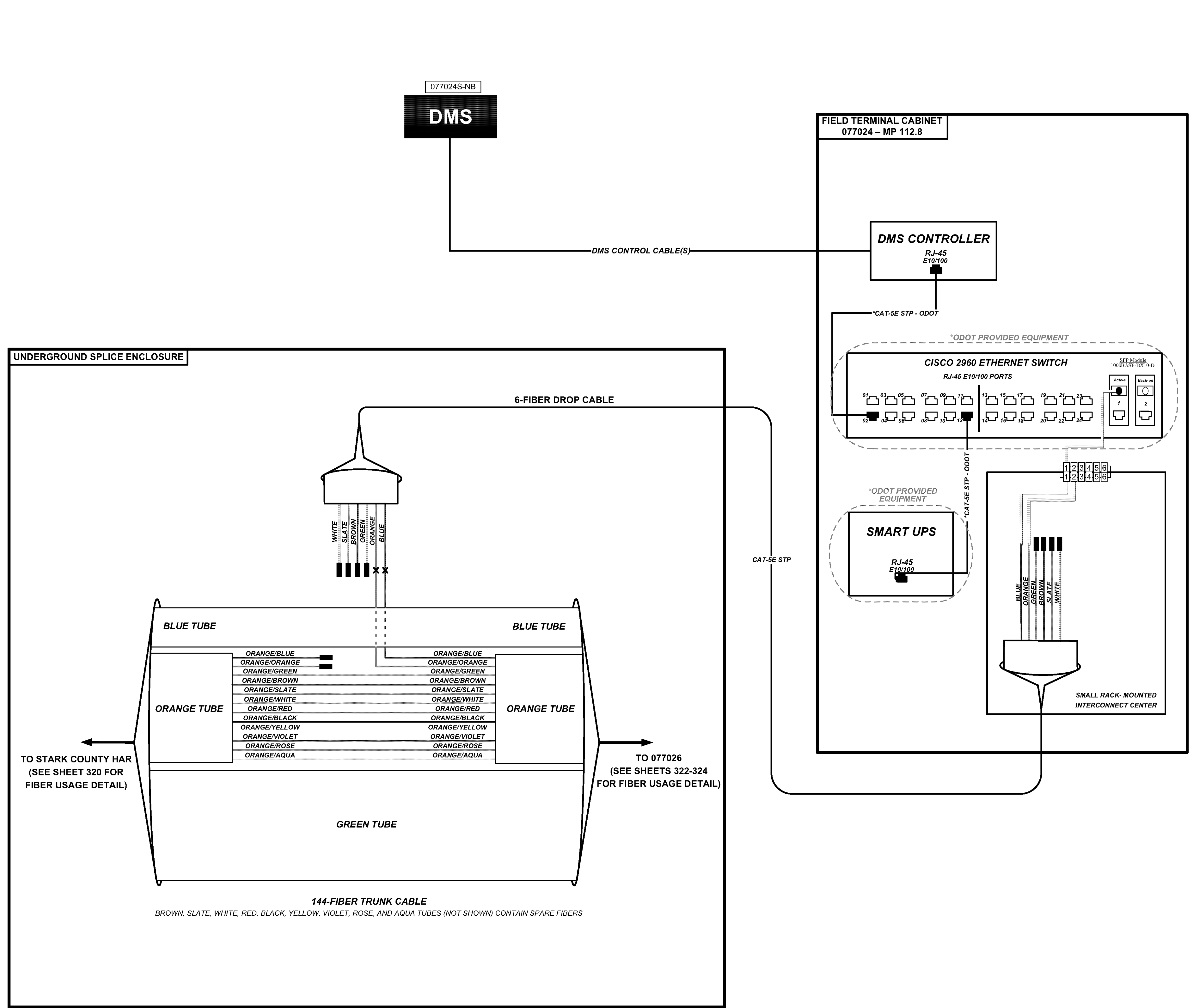
TO 077022  
(SEE SHEET 319 FOR  
FIBER USAGE DETAIL)

TO 077024  
(SEE SHEET 321 FOR  
FIBER USAGE DETAIL)

**KEY**

-  VEHICLE DETECTOR  
DEVICE NUMBER FOLLOWED BY 'D'
-  CCTV CAMERA  
DEVICE NUMBER FOLLOWED BY 'C'
-  DMS  
DYNAMIC MESSAGE SIGN  
DEVICE NUMBER FOLLOWED BY 'S'
-  EQUIPMENT CONNECTION  
FIBER OPTIC JUMPER
-  FIBER OPTIC PIGTAIL
-  EXISTING/PROPOSED  
BARE FIBER LEFT  
COILED IN SPLICE TRAY
-  EXISTING/PROPOSED  
FUSION SPLICE
-  CONNECTOR MODULE

- NOTES**
1. MAXIMUM SPLICE LOSS SHALL BE 0.1 dB
  2. NO INTERMEDIATE SPLICES ALLOWED
  3. ALL SPLICES SHALL BE FUSION SPLICES
  4. WHEN SPLICING UNDERGROUND, WITH THE EXCEPTION OF 3750 LOCATIONS, ONLY TUBES CONTAINING ALLOCATED FIBERS TO BE SPLICED SHALL BE CUT. ALL OTHER TUBES SHALL RUN UN-CUT BETWEEN CABINETS
  5. TERMINATE CAT-5E STP ON SCREW TERMINALS OF APPROPRIATE SERIAL CONNECTOR HOUSING.
  6. ODOT TO INSTALL ALL CISCO PRODUCTS, TERMINAL SERVERS, UPS, AND ALL ASSOCIATED CABLING THAT CONNECTS ODOT PROVIDED EQUIPMENT.



077024S-NB  
**DMS**

FIELD TERMINAL CABINET  
 077024 - MP 112.8

**DMS CONTROLLER**  
 RJ-45  
 E10/100

**CISCO 2960 ETHERNET SWITCH**  
 RJ-45 E10/100 PORTS

**SMART UPS**  
 RJ-45  
 E10/100

UNDERGROUND SPLICE ENCLOSURE

6-FIBER DROP CABLE

BLUE TUBE

BLUE TUBE

ORANGE TUBE

ORANGE TUBE

GREEN TUBE

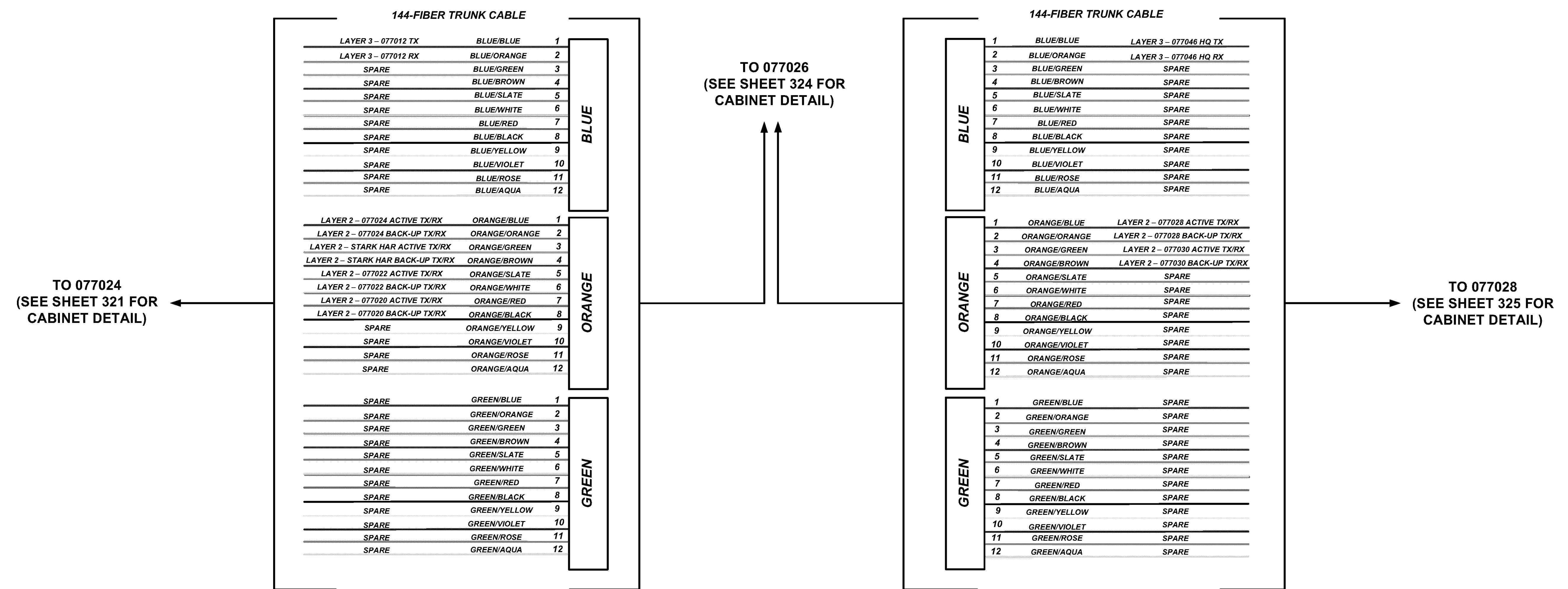
144-FIBER TRUNK CABLE

BROWN, SLATE, WHITE, RED, BLACK, YELLOW, VIOLET, ROSE, AND AQUA TUBES (NOT SHOWN) CONTAIN SPARE FIBERS

TO STARK COUNTY HAR  
 (SEE SHEET 320 FOR  
 FIBER USAGE DETAIL)

TO 077026  
 (SEE SHEETS 322-324  
 FOR FIBER USAGE DETAIL)





**NOTES**

1. FIBERS NOT SHOWN SHALL ARE TO BE SPARE UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THIS INCLUDES FIBERS IN THE BROWN, SLATE, WHITE, RED, BLACK, YELLOW, VIOLET, ROSE, AND AQUA TUBES

**KEY**



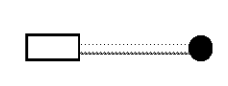
VEHICLE DETECTOR  
DEVICE NUMBER FOLLOWED BY 'D'



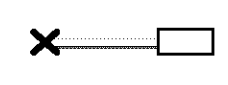
CCTV CAMERA  
DEVICE NUMBER FOLLOWED BY 'C'



DYNAMIC MESSAGE SIGN  
DEVICE NUMBER FOLLOWED BY 'S'



EQUIPMENT CONNECTION  
FIBER OPTIC JUMPER



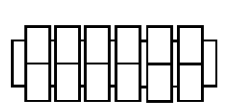
FIBER OPTIC PIGTAIL



EXISTING/PROPOSED  
BARE FIBER LEFT  
COILED IN SPLICE TRAY

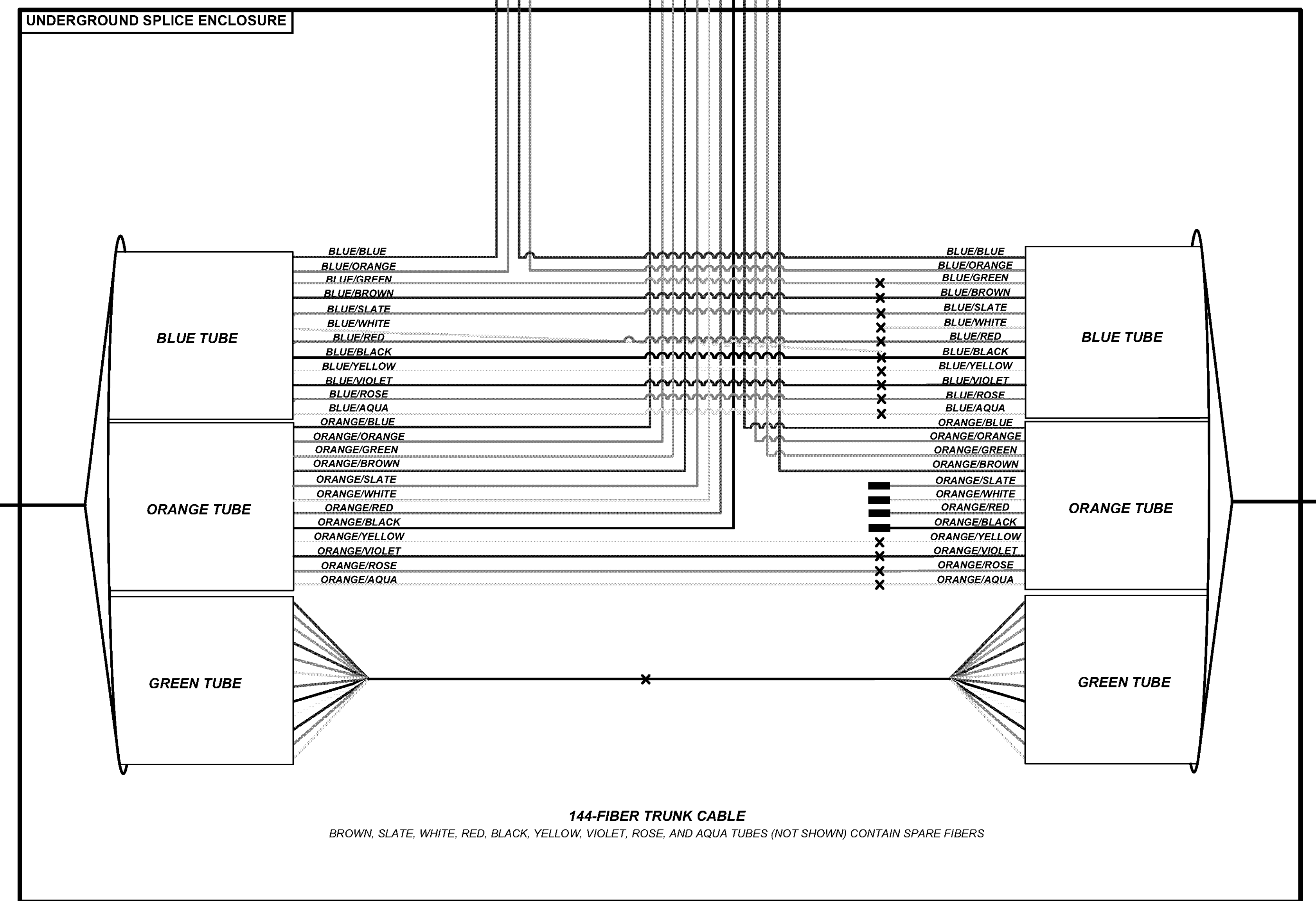
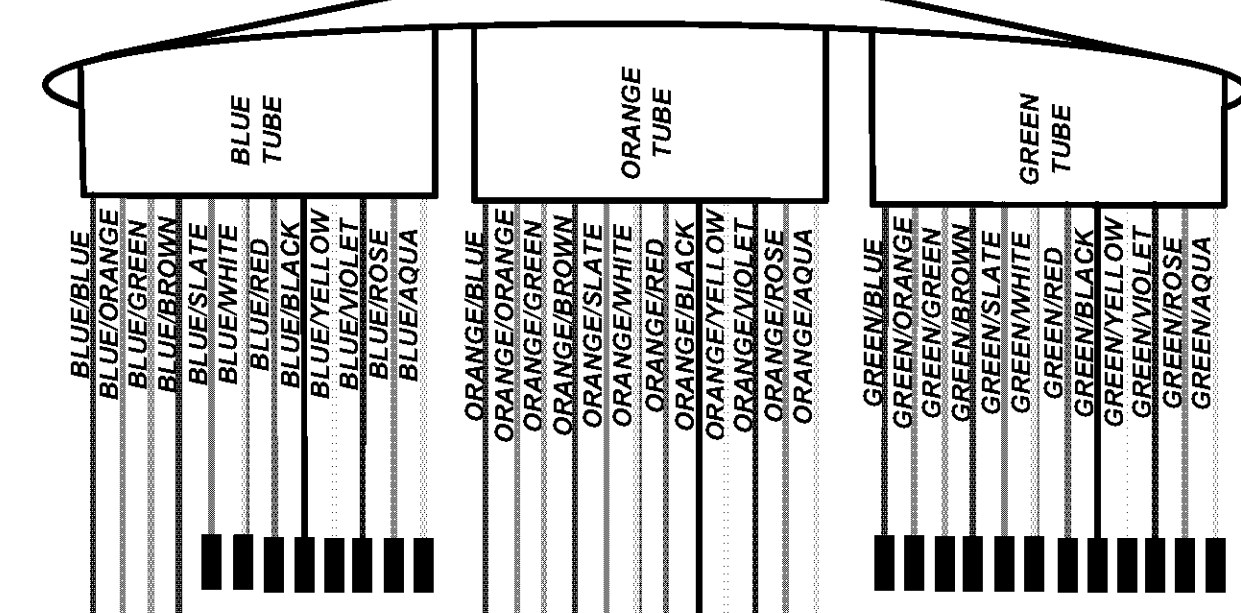


EXISTING/PROPOSED  
FUSION SPLICE



CONNECTOR MODULE

36-FIBER DROP CABLE → TO 077026 COMMUNICATIONS CABINET (SEE SHEET 324)

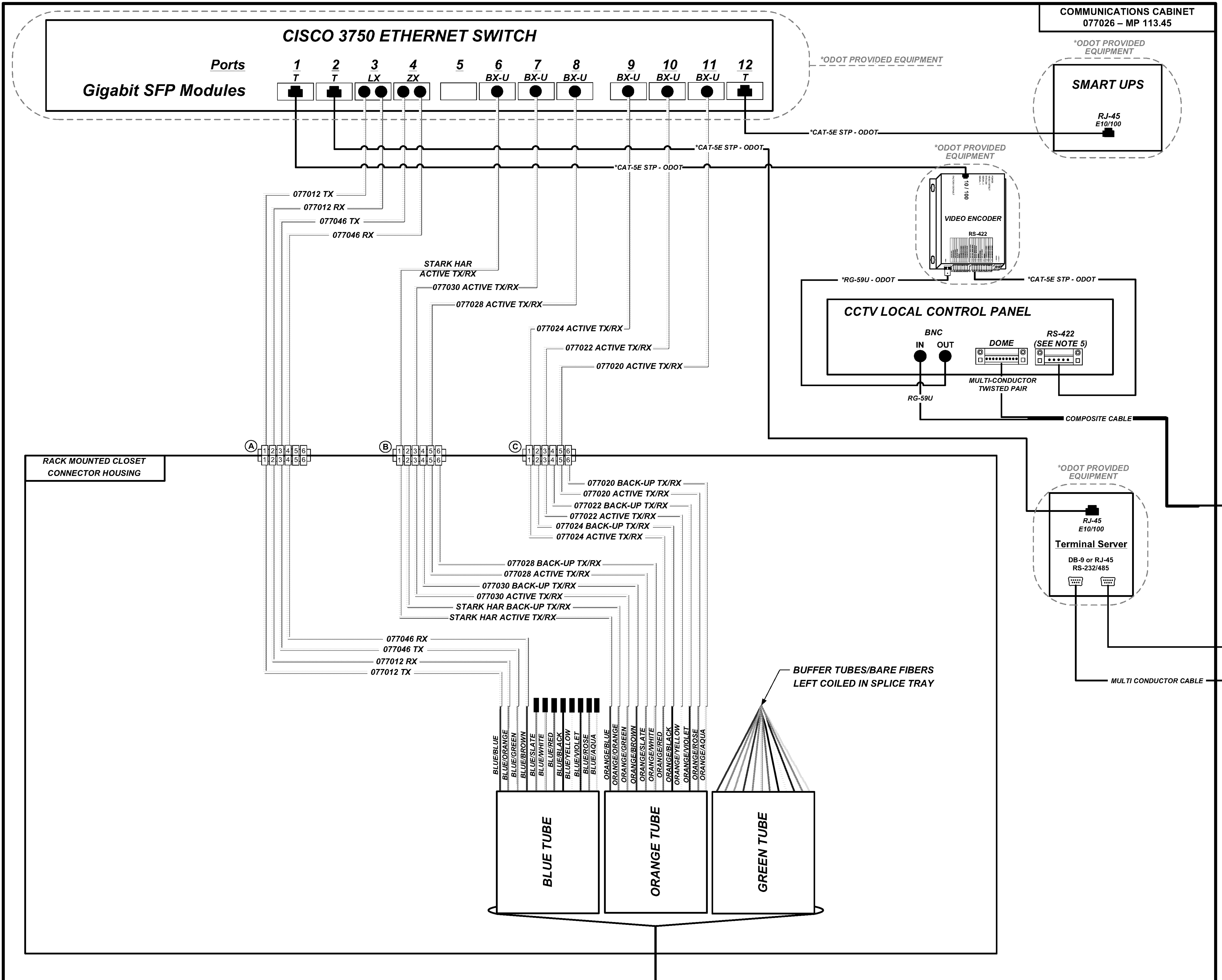


144-FIBER TRUNK CABLE TO 077024 (SEE SHEET 321 FOR FIBER USAGE DETAIL)

144-FIBER TRUNK CABLE TO 077028 (SEE SHEET 325 FOR FIBER USAGE DETAIL)

144-FIBER TRUNK CABLE  
BROWN, SLATE, WHITE, RED, BLACK, YELLOW, VIOLET, ROSE, AND AQUA TUBES (NOT SHOWN) CONTAIN SPARE FIBERS

- NOTES**
1. MAXIMUM SPLICE LOSS SHALL BE 0.1 dB
  2. NO INTERMEDIATE SPLICES ALLOWED
  3. ALL SPLICES SHALL BE FUSION SPLICES
  4. WHEN SPLICING UNDERGROUND, WITH THE EXCEPTION OF 3750 LOCATIONS, ONLY TUBES CONTAINING ALLOCATED FIBERS TO BE SPLICED SHALL BE CUT. ALL OTHER TUBES SHALL RUN UN-CUT BETWEEN CABINETS




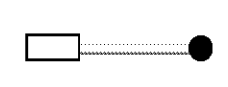
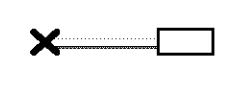


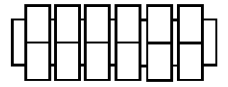


**KEY**

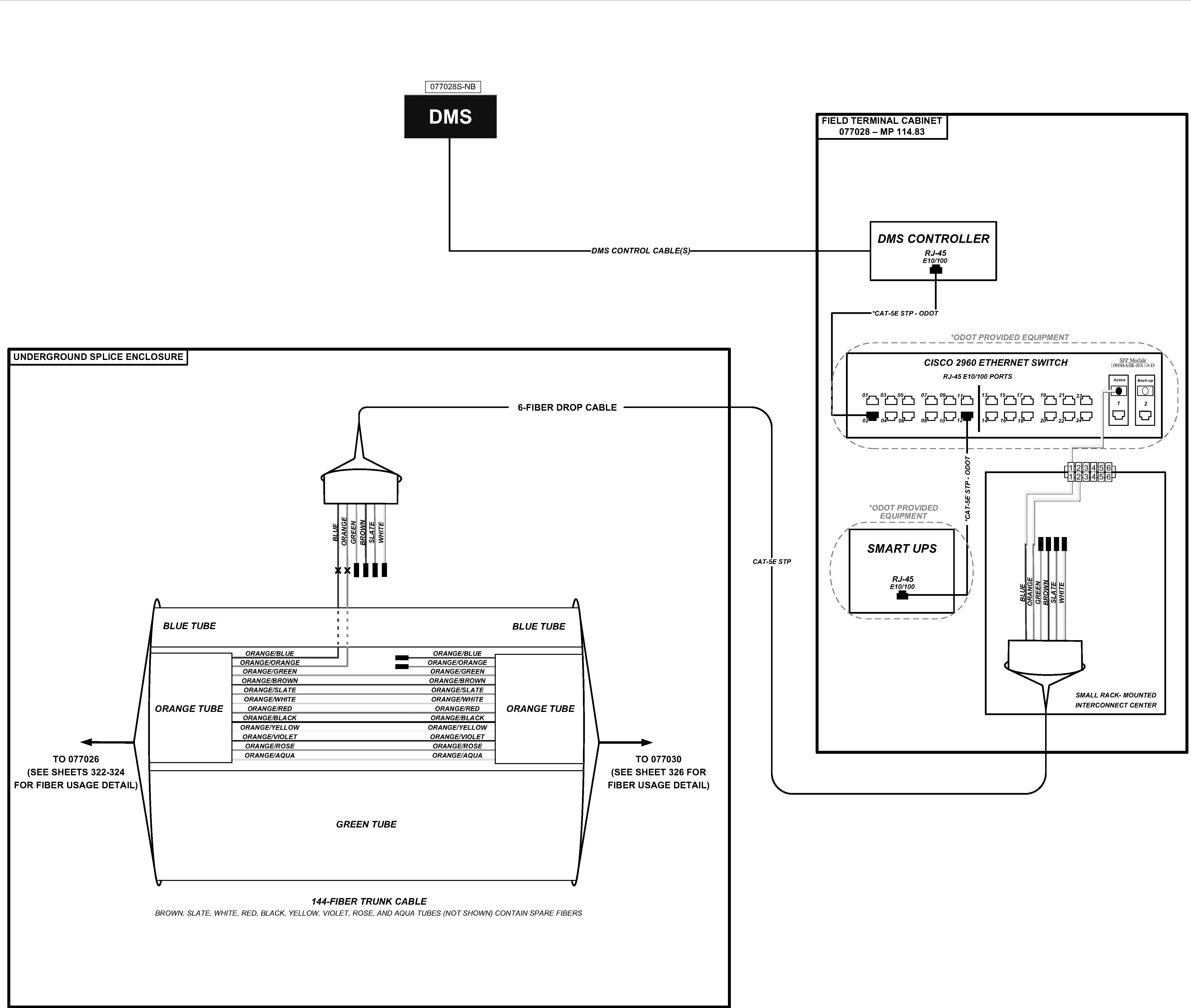
- VEHICLE DETECTOR  
DEVICE NUMBER FOLLOWED BY 'D'
- CCTV CAMERA  
DEVICE NUMBER FOLLOWED BY 'C'
- DMS  
DYNAMIC MESSAGE SIGN  
DEVICE NUMBER FOLLOWED BY 'S'
- EQUIPMENT CONNECTION  
FIBER OPTIC JUMPER
- FIBER OPTIC PIGTAIL
- EXISTING/PROPOSED  
BARE FIBER LEFT  
COILED IN SPLICE TRAY
- EXISTING/PROPOSED  
FUSION SPLICE
- CONNECTOR MODULE

- NOTES**
1. MAXIMUM SPLICE LOSS SHALL BE 0.1 dB
  2. NO INTERMEDIATE SPLICES ALLOWED
  3. ALL SPLICES SHALL BE FUSION SPLICES
  4. WHEN SPLICING UNDERGROUND, WITH THE EXCEPTION OF 3750 LOCATIONS, ONLY TUBES CONTAINING ALLOCATED FIBERS TO BE SPLICED SHALL BE CUT. ALL OTHER TUBES SHALL RUN UN-CUT BETWEEN CABINETS
  5. TERMINATE CAT-5E STP ON SCREW TERMINALS OF APPROPRIATE SERIAL CONNECTOR HOUSING.
  6. ODOT TO INSTALL ALL CISCO PRODUCTS, TERMINAL SERVERS, UPS, AND ALL ASSOCIATED CABLING THAT CONNECTS ODOT PROVIDED EQUIPMENT.

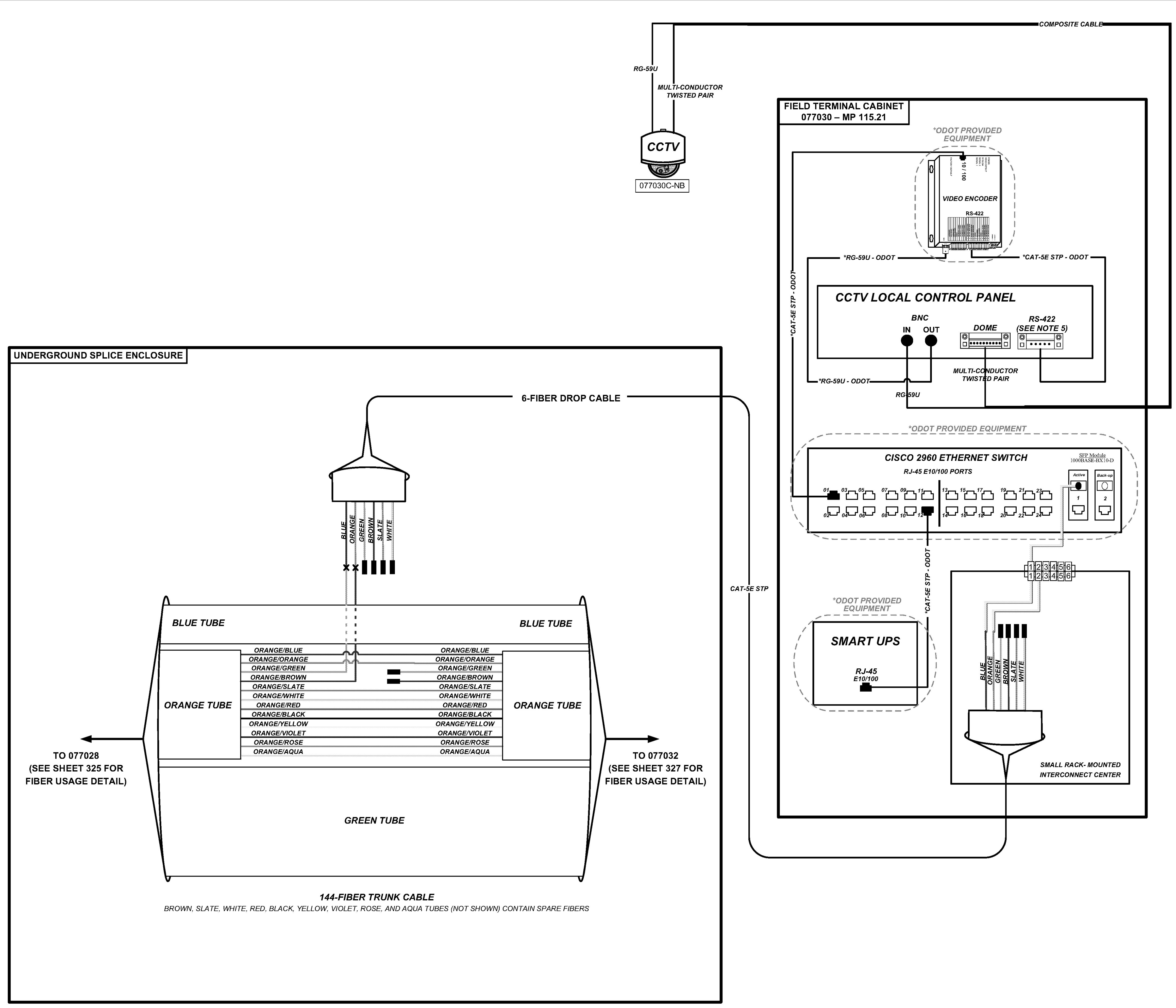
**KEY**

-  VEHICLE DETECTOR  
DEVICE NUMBER FOLLOWED BY 'D'
-  CCTV CAMERA  
DEVICE NUMBER FOLLOWED BY 'C'
-  DMS  
DYNAMIC MESSAGE SIGN  
DEVICE NUMBER FOLLOWED BY 'S'
-  EQUIPMENT CONNECTION  
FIBER OPTIC JUMPER
-  FIBER OPTIC PIGTAIL
-  EXISTING/PROPOSED  
BARE FIBER LEFT  
COILED IN SPLICE TRAY
-  EXISTING/PROPOSED  
FUSION SPLICE
-  CONNECTOR MODULE

- NOTES**
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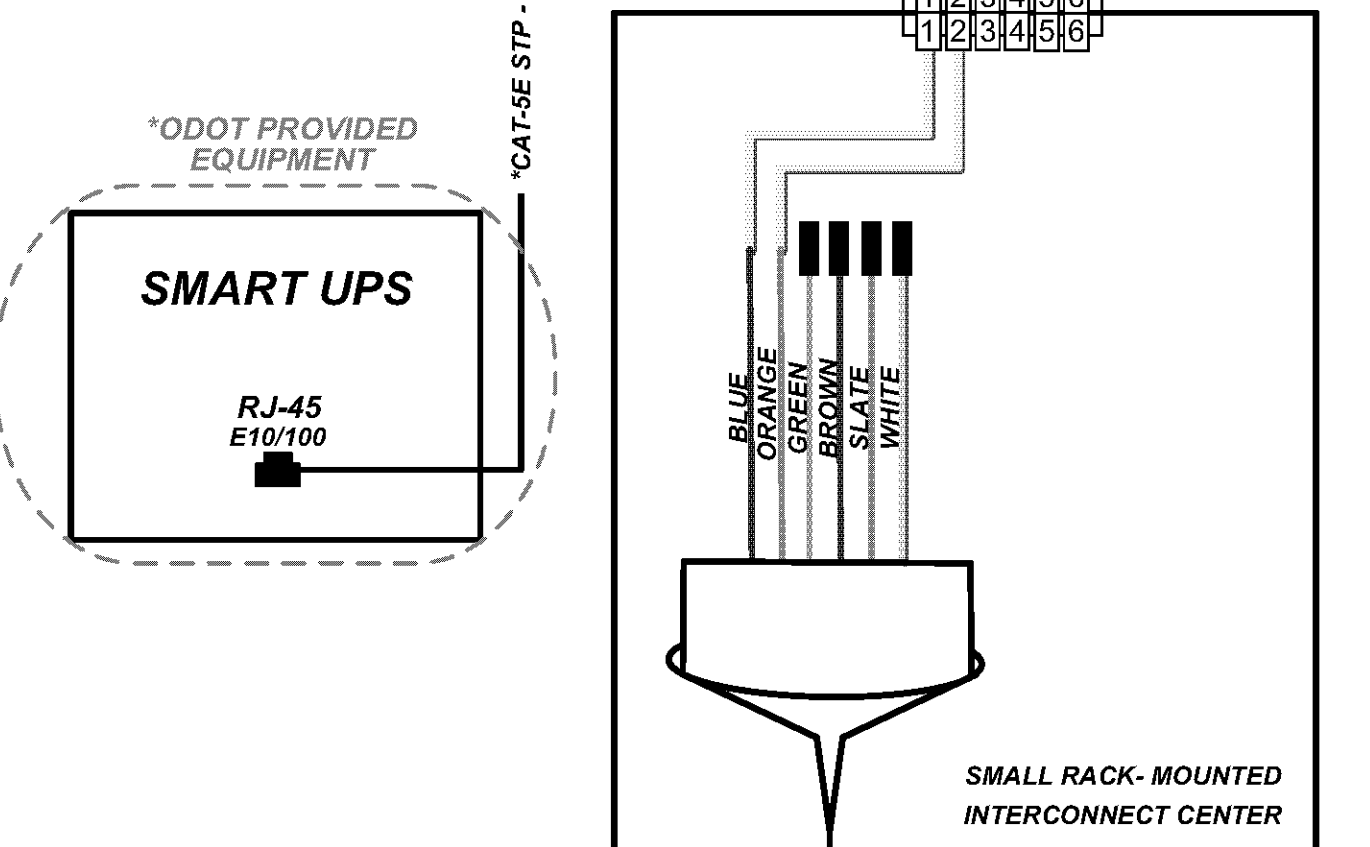
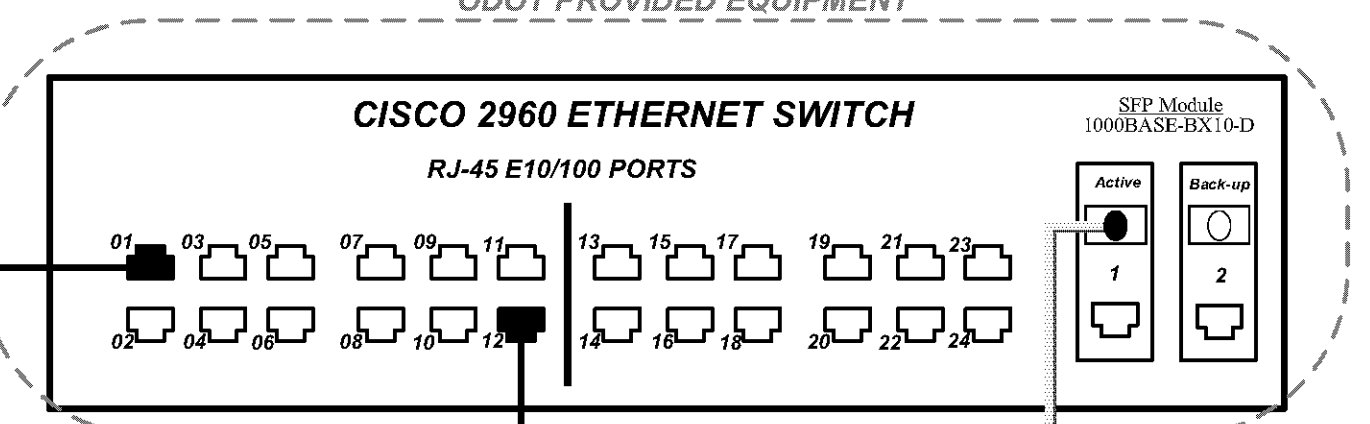
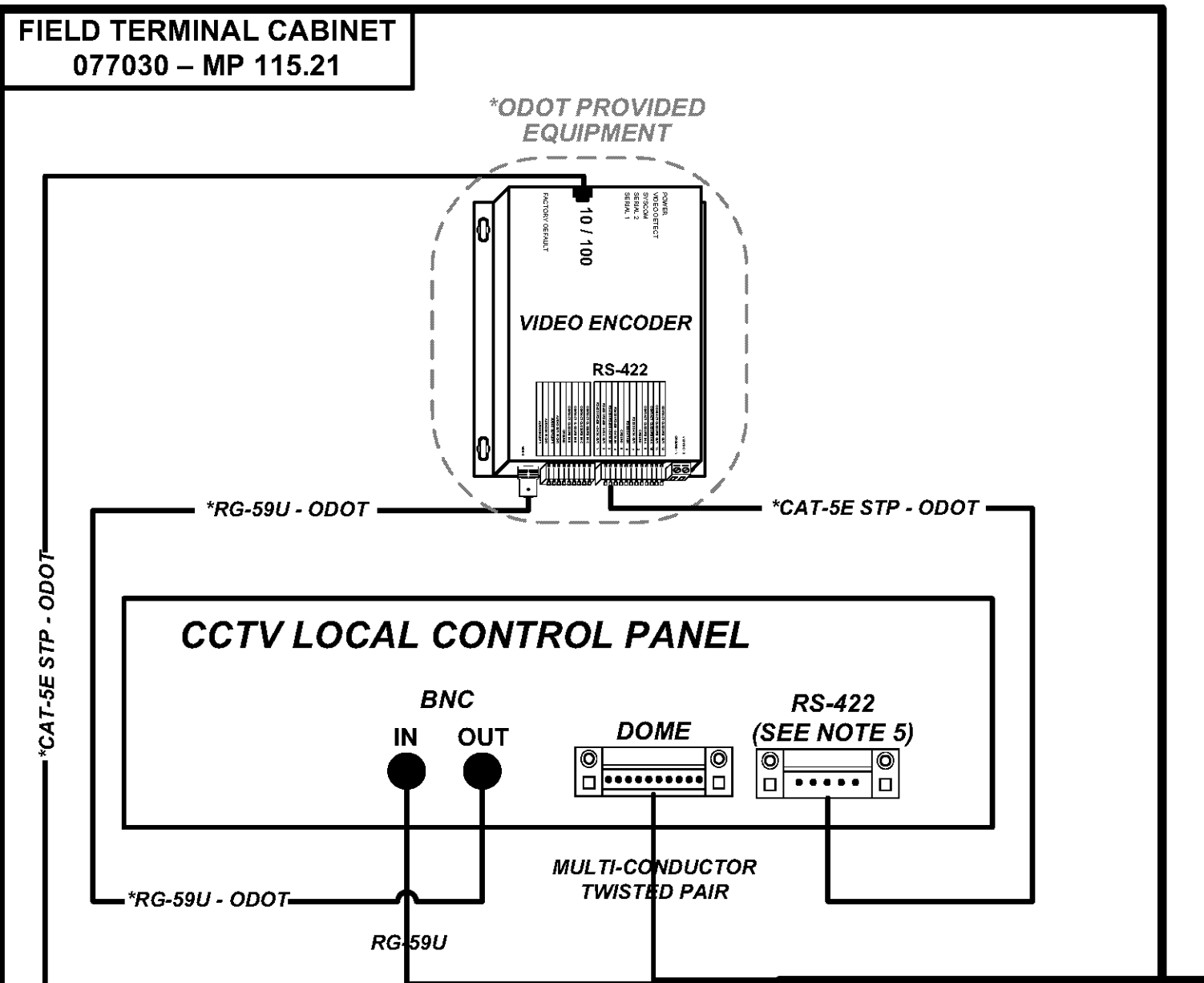
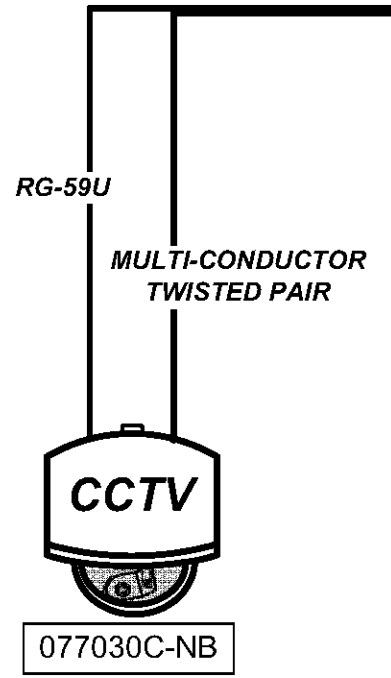
**144-FIBER TRUNK CABLE**  
BROWN, SLATE, WHITE, RED, BLACK, YELLOW, VIOLET, ROSE, AND AQUA TUBES (NOT SHOWN) CONTAIN SPARE FIBERS



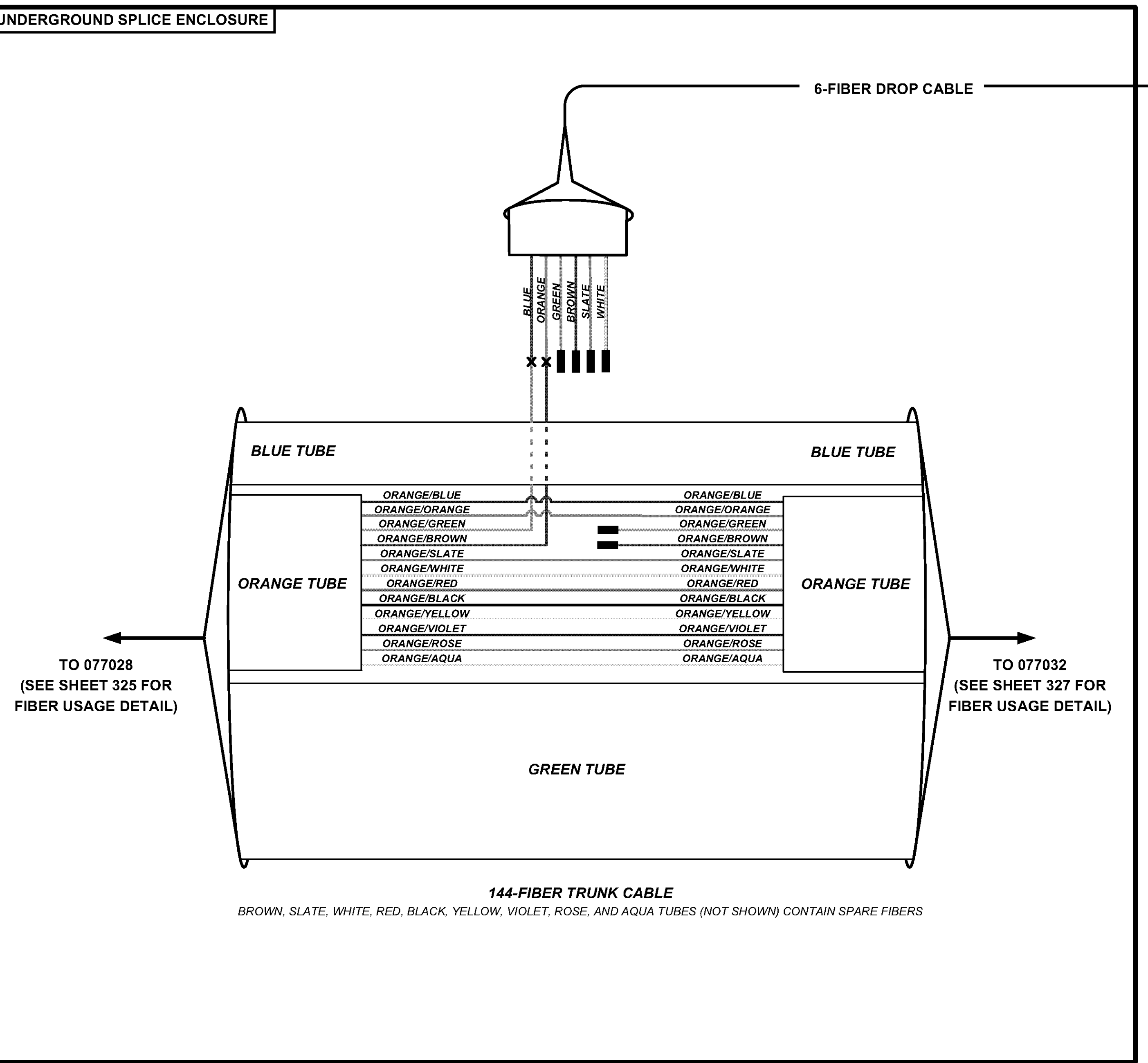
### KEY

- VEHICLE DETECTOR  
DEVICE NUMBER FOLLOWED BY 'D'
- CCTV CAMERA  
DEVICE NUMBER FOLLOWED BY 'C'
- DMS  
DYNAMIC MESSAGE SIGN  
DEVICE NUMBER FOLLOWED BY 'S'
- EQUIPMENT CONNECTION  
FIBER OPTIC JUMPER
- FIBER OPTIC PIGTAIL
- EXISTING/PROPOSED  
BARE FIBER LEFT  
COILED IN SPLICE TRAY
- EXISTING/PROPOSED  
FUSION SPLICE
- CONNECTOR MODULE

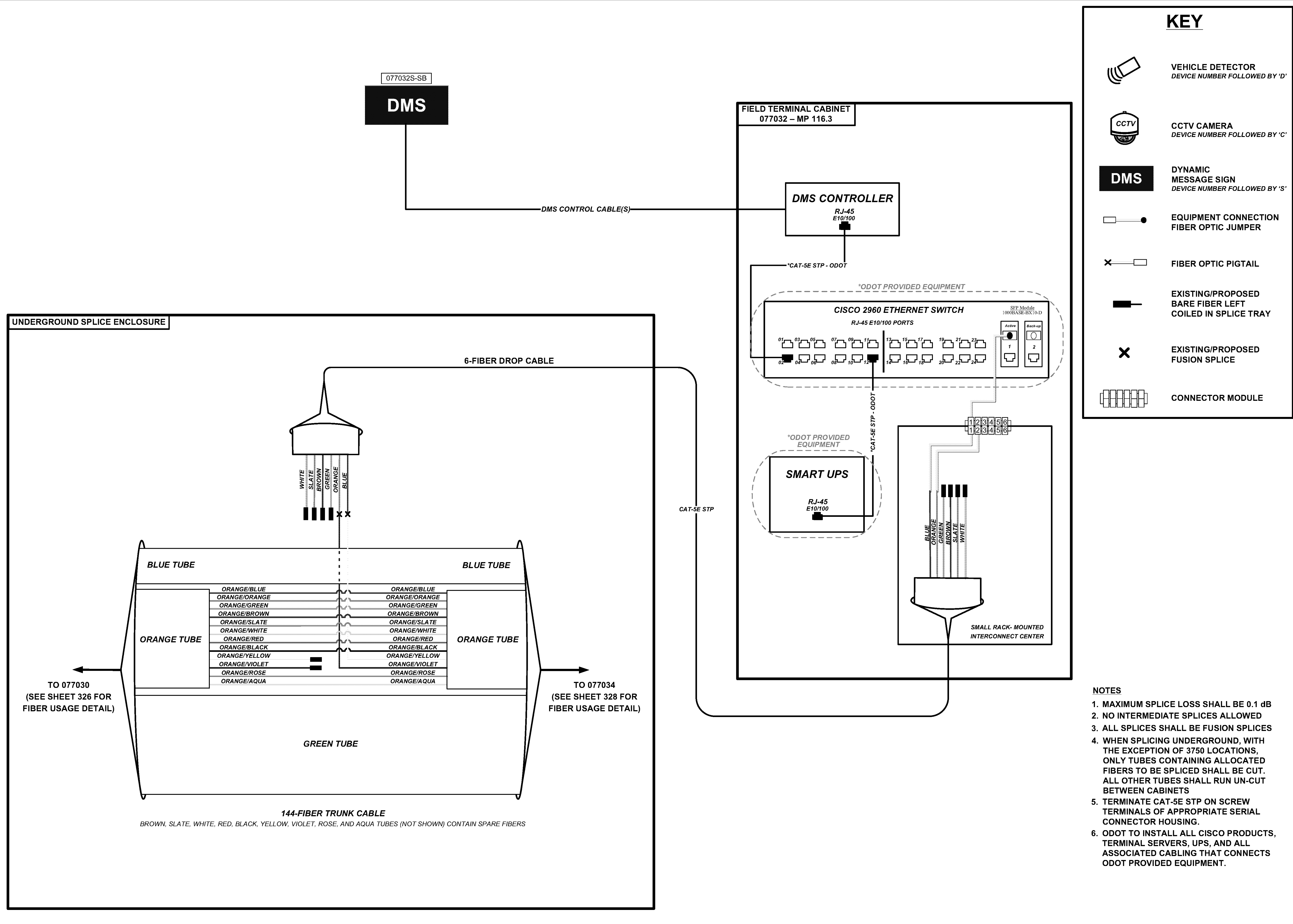
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1. MAXIMUM SPLICE LOSS SHALL BE 0.1 dB
  2. NO INTERMEDIATE SPLICES ALLOWED
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  5. TERMINATE CAT-5E STP ON SCREW TERMINALS OF APPROPRIATE SERIAL CONNECTOR HOUSING.
  6. ODOT TO INSTALL ALL CISCO PRODUCTS, TERMINAL SERVERS, UPS, AND ALL ASSOCIATED CABLING THAT CONNECTS ODOT PROVIDED EQUIPMENT.






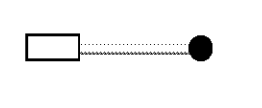
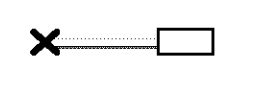


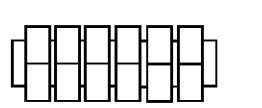
144-FIBER TRUNK CABLE  
BROWN, SLATE, WHITE, RED, BLACK, YELLOW, VIOLET, ROSE, AND AQUA TUBES (NOT SHOWN) CONTAIN SPARE FIBERS







**KEY**

-  VEHICLE DETECTOR  
DEVICE NUMBER FOLLOWED BY 'D'
-  CCTV CAMERA  
DEVICE NUMBER FOLLOWED BY 'C'
-  DMS  
DYNAMIC MESSAGE SIGN  
DEVICE NUMBER FOLLOWED BY 'S'
-  EQUIPMENT CONNECTION  
FIBER OPTIC JUMPER
-  FIBER OPTIC PIGTAIL
-  EXISTING/PROPOSED  
BARE FIBER LEFT  
COILED IN SPLICE TRAY
-  EXISTING/PROPOSED  
FUSION SPLICE
-  CONNECTOR MODULE

- NOTES**
1. MAXIMUM SPLICE LOSS SHALL BE 0.1 dB
  2. NO INTERMEDIATE SPLICES ALLOWED
  3. ALL SPLICES SHALL BE FUSION SPLICES
  4. WHEN SPLICING UNDERGROUND, WITH THE EXCEPTION OF 3750 LOCATIONS, ONLY TUBES CONTAINING ALLOCATED FIBERS TO BE SPLICED SHALL BE CUT. ALL OTHER TUBES SHALL RUN UN-CUT BETWEEN CABINETS
  5. TERMINATE CAT-5E STP ON SCREW TERMINALS OF APPROPRIATE SERIAL CONNECTOR HOUSING.
  6. ODOT TO INSTALL ALL CISCO PRODUCTS, TERMINAL SERVERS, UPS, AND ALL ASSOCIATED CABLING THAT CONNECTS ODOT PROVIDED EQUIPMENT.

077032S-SB

**DMS**

FIELD TERMINAL CABINET  
077032 - MP 116.3

**DMS CONTROLLER**  
RJ-45  
E10/100

**CISCO 2960 ETHERNET SWITCH**  
RJ-45 E10/100 PORTS  
SFP Module 1000BASE-BX10-D

**SMART UPS**  
RJ-45  
E10/100

**SMALL RACK-MOUNTED INTERCONNECT CENTER**

UNDERGROUND SPLICE ENCLOSURE

6-FIBER DROP CABLE

BLUE TUBE

BLUE TUBE

ORANGE TUBE

ORANGE TUBE

GREEN TUBE

144-FIBER TRUNK CABLE

BROWN, SLATE, WHITE, RED, BLACK, YELLOW, VIOLET, ROSE, AND AQUA TUBES (NOT SHOWN) CONTAIN SPARE FIBERS

TO 077030  
(SEE SHEET 326 FOR FIBER USAGE DETAIL)

TO 077034  
(SEE SHEET 328 FOR FIBER USAGE DETAIL)

DMS CONTROL CABLE(S)

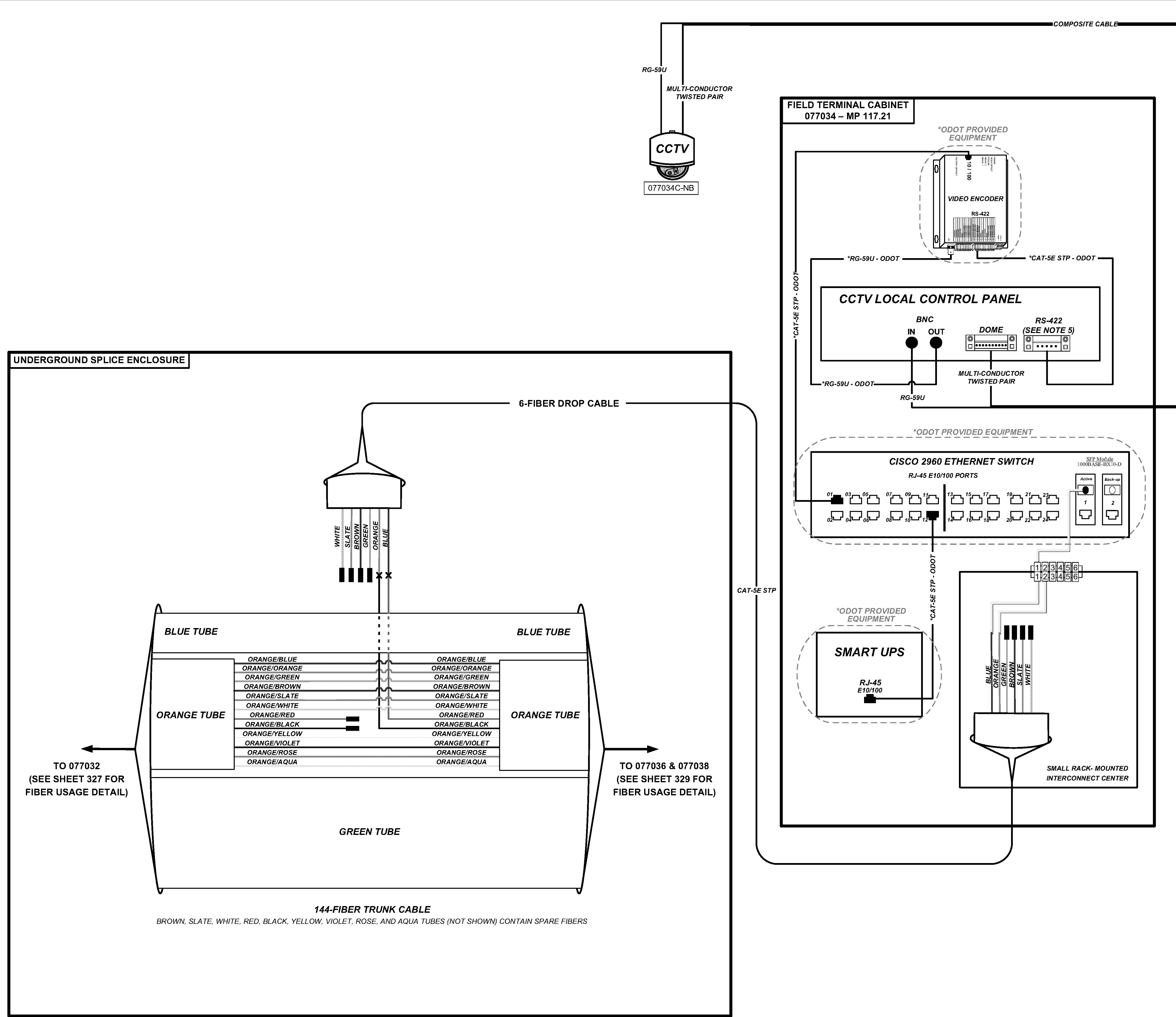
CAT-5E STP

\*CAT-5E STP - ODOT

\*ODOT PROVIDED EQUIPMENT

\*ODOT PROVIDED EQUIPMENT

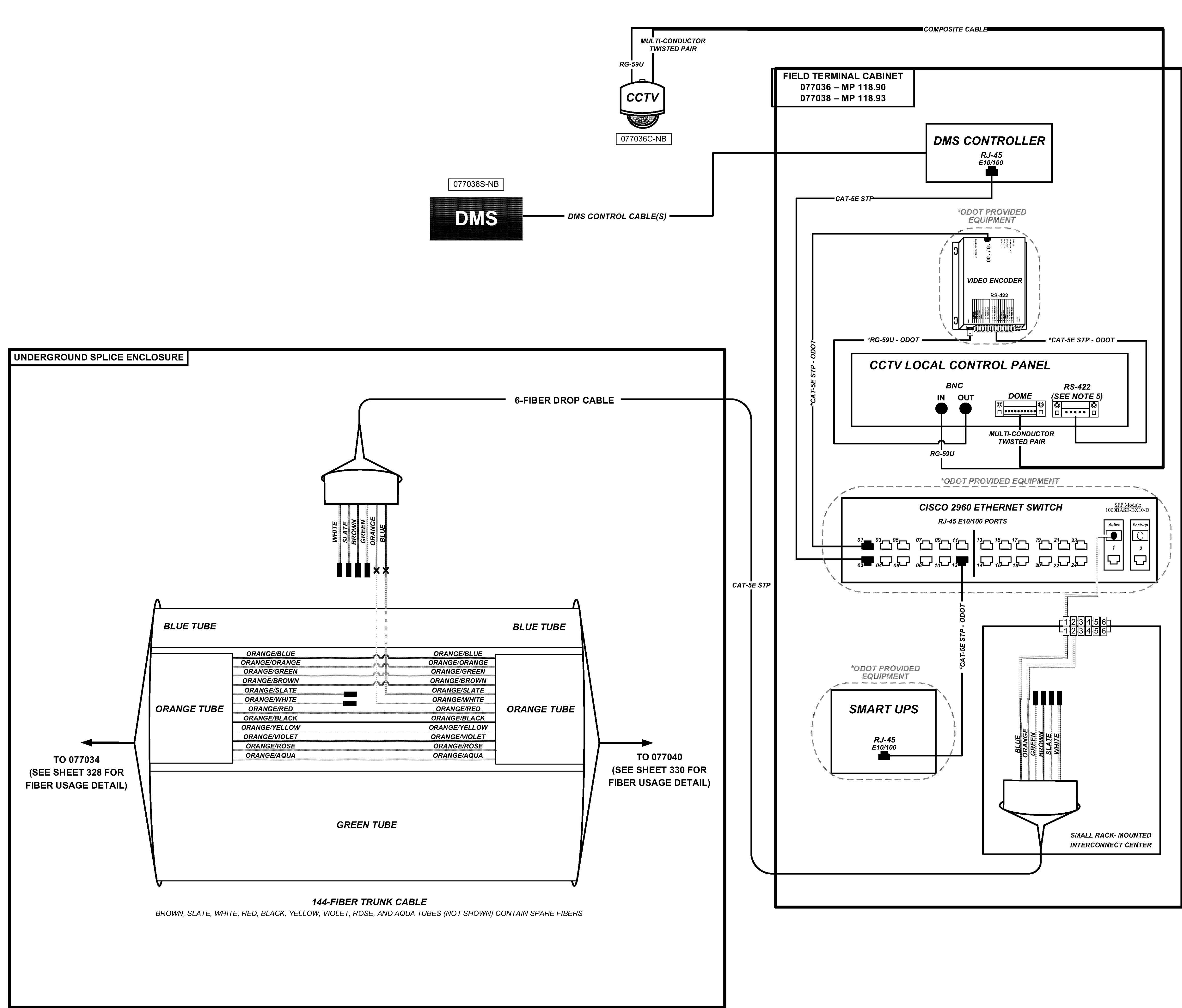
\*CAT-5E STP - ODOT



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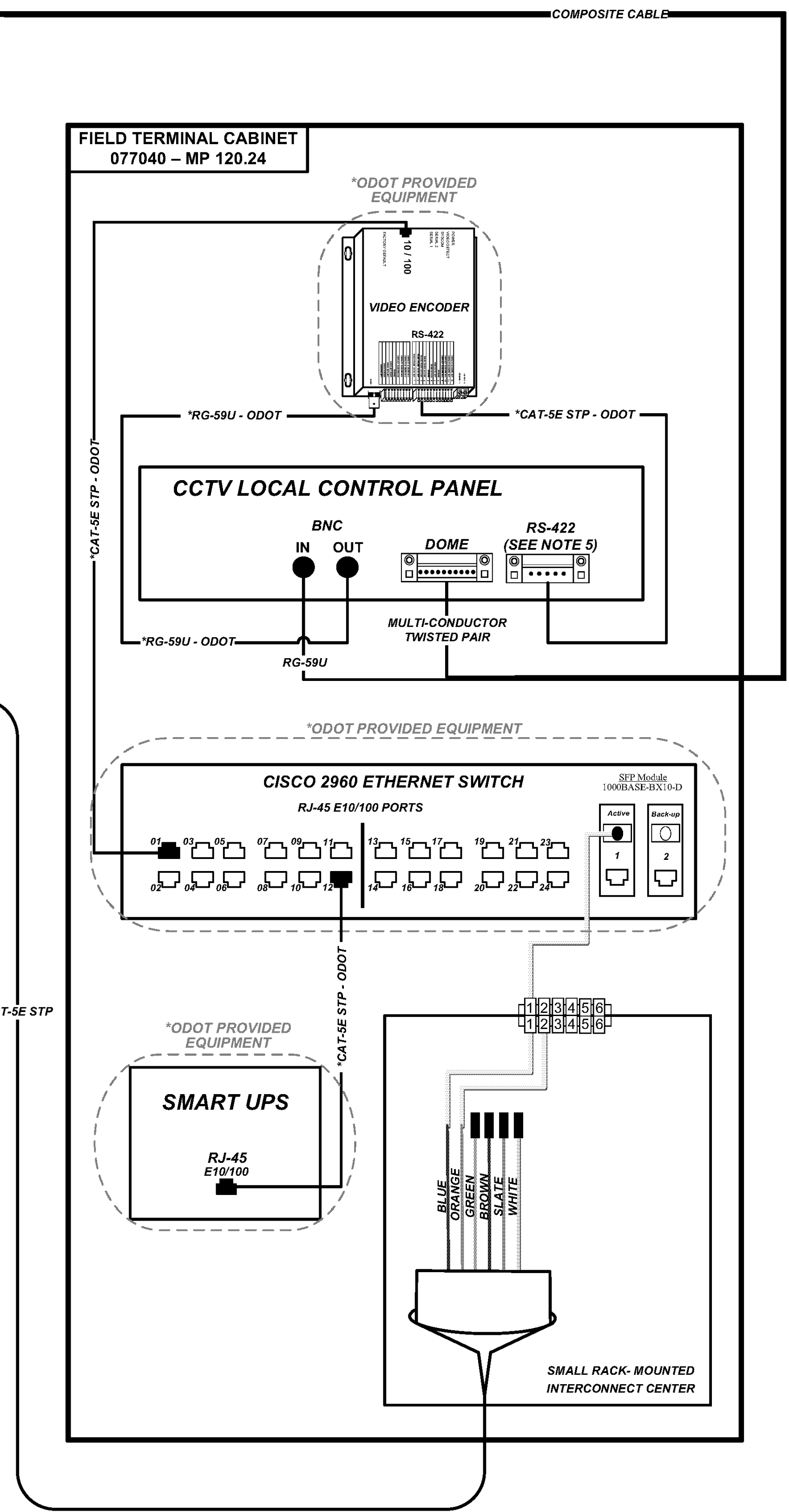
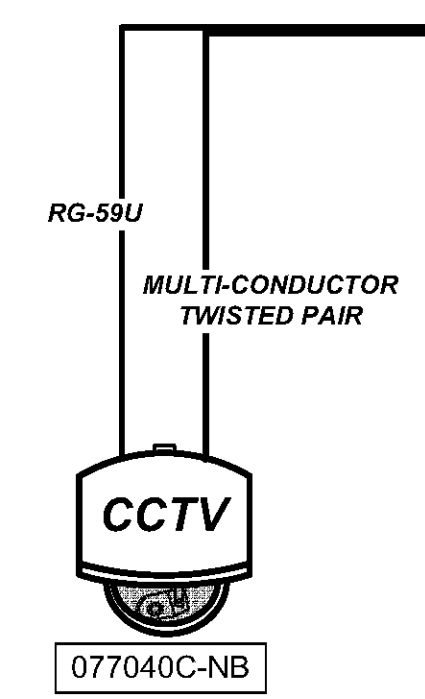
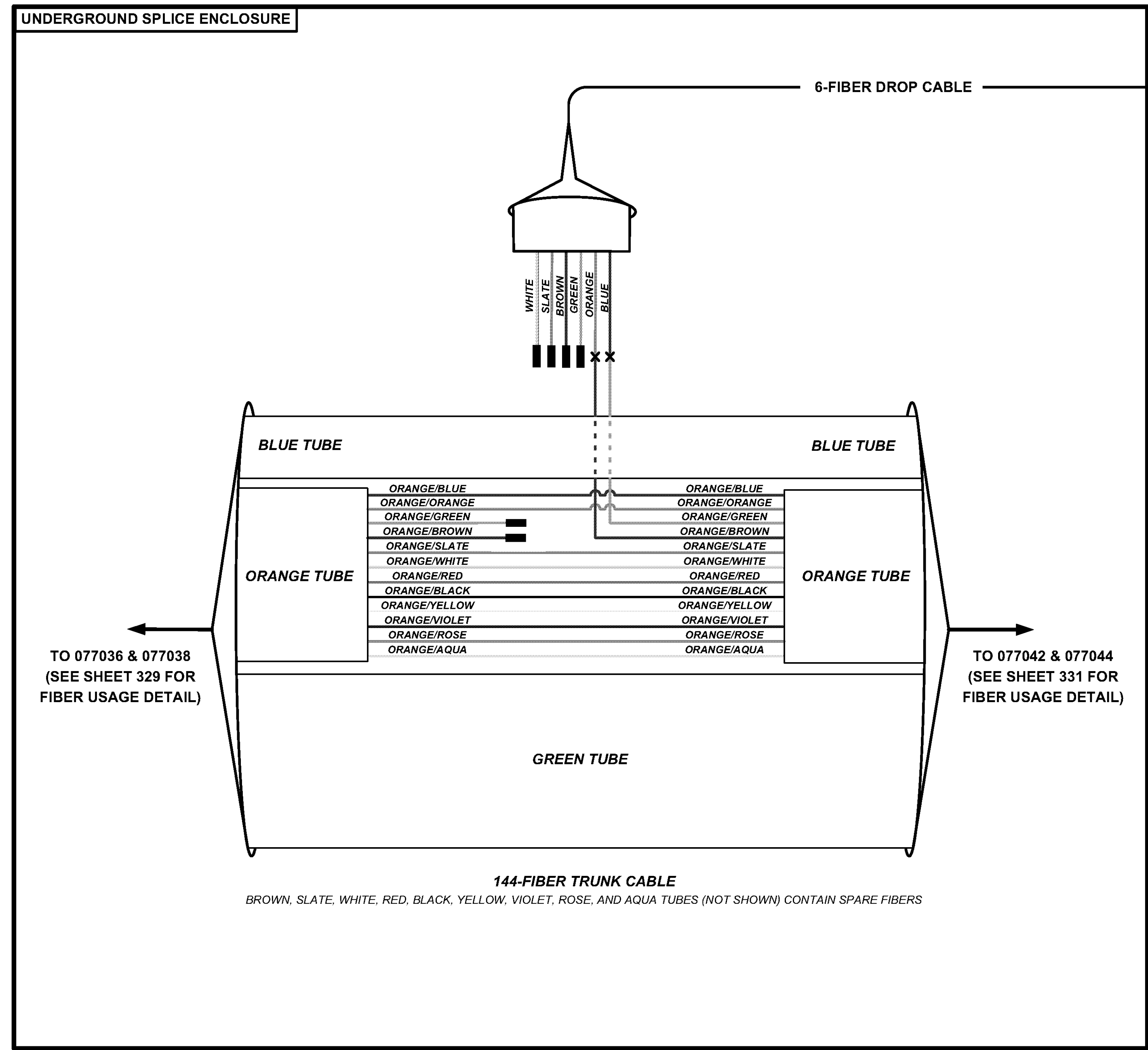
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BARE FIBER LEFT  
COILED IN SPLICE TRAY
- EXISTING/PROPOSED  
FUSION SPLICE
- CONNECTOR MODULE

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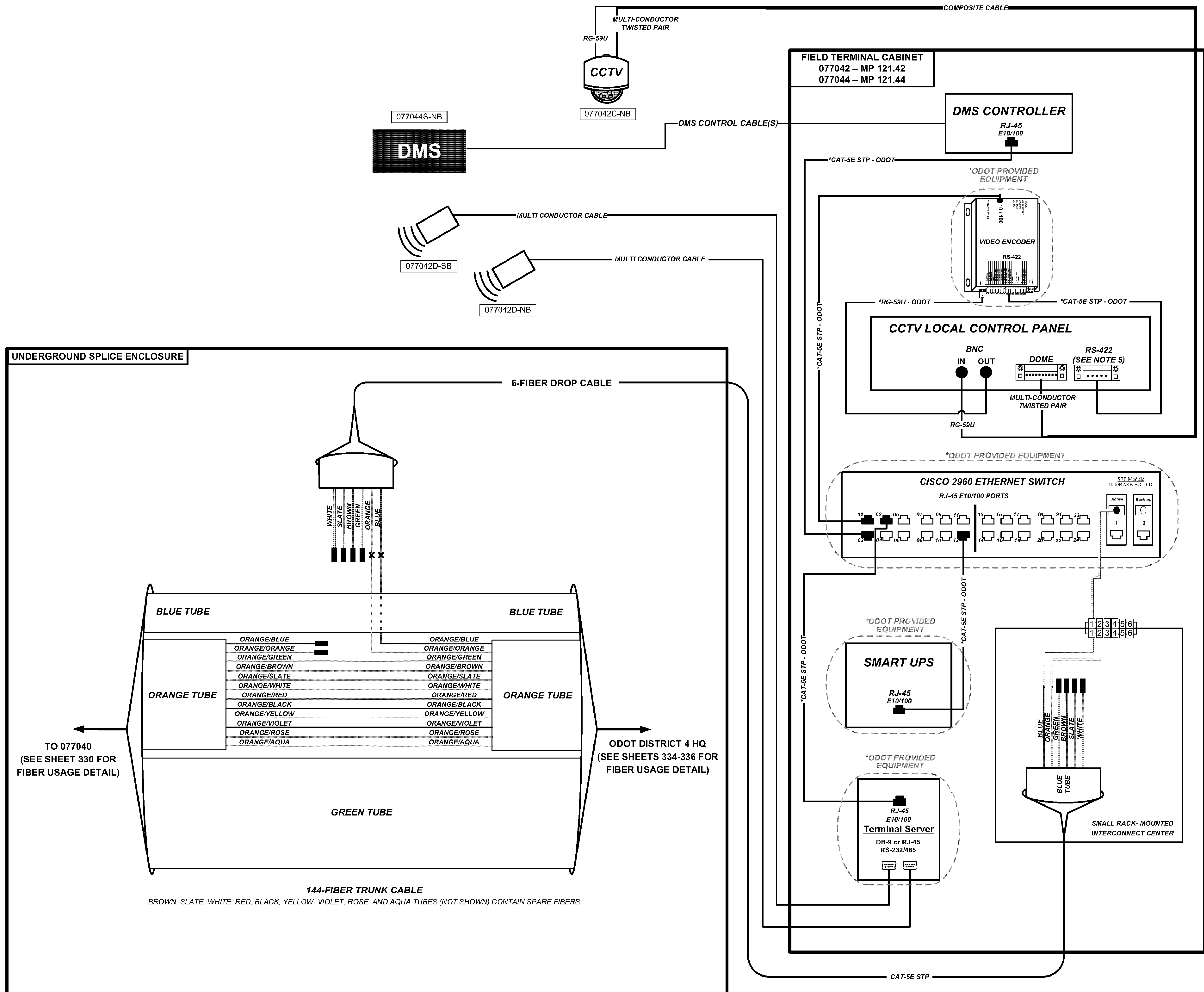
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FIBER OPTIC JUMPER
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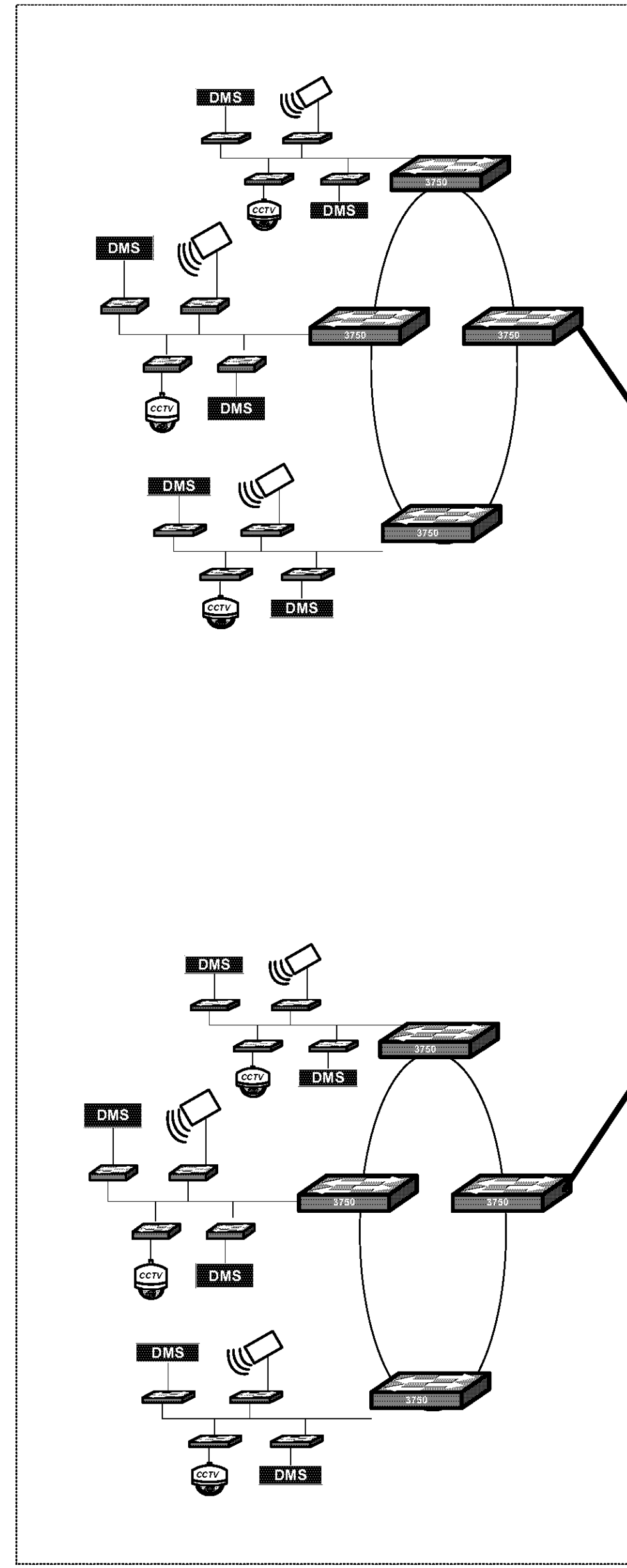
CALCULATED RM  
CHECKED JDG

FIBER ASSIGNMENT DETAIL DRAWING WITH ACTUAL FIBER USAGE SHOWN  
FIELD TERMINAL CABINET 077042 & 077044

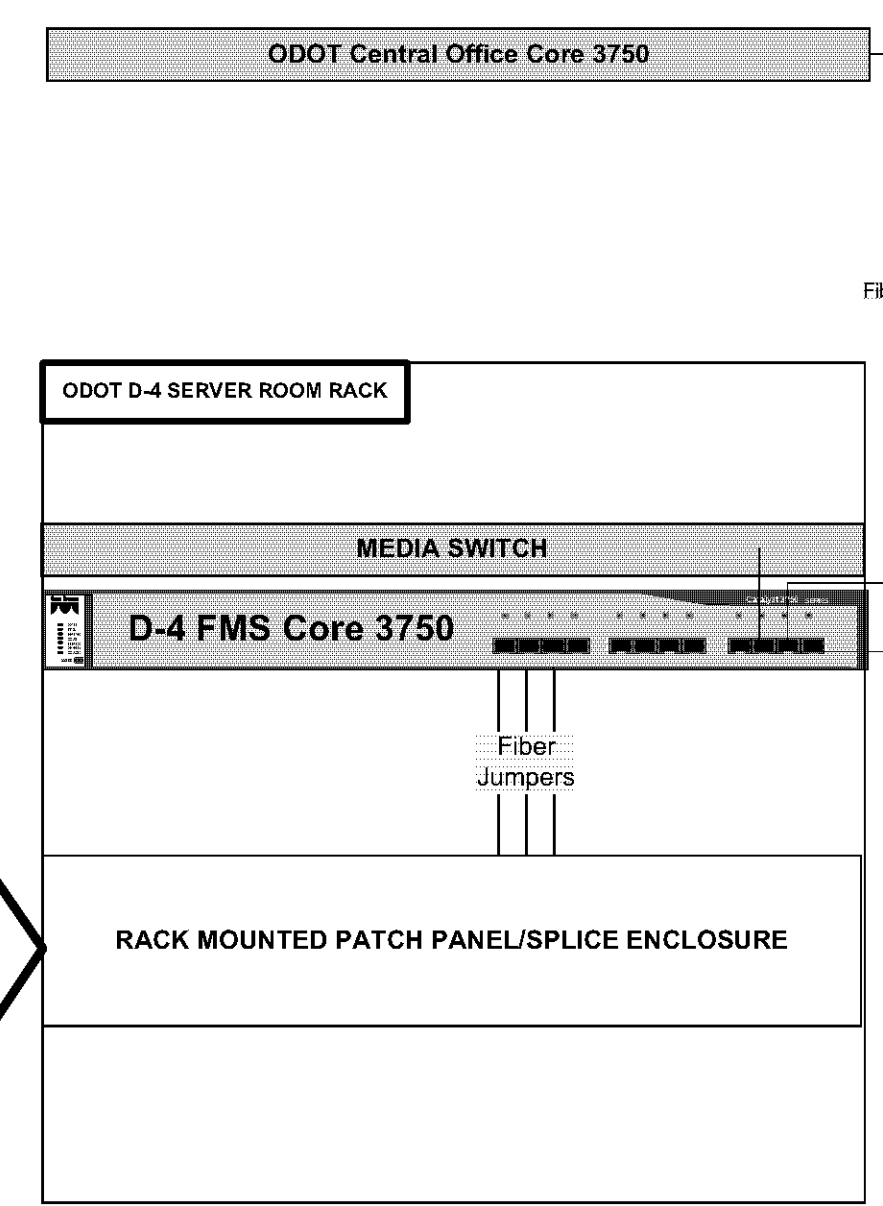
STA-SUM ITS



**Akron-Canton FMS  
Field Equipment  
Connections**

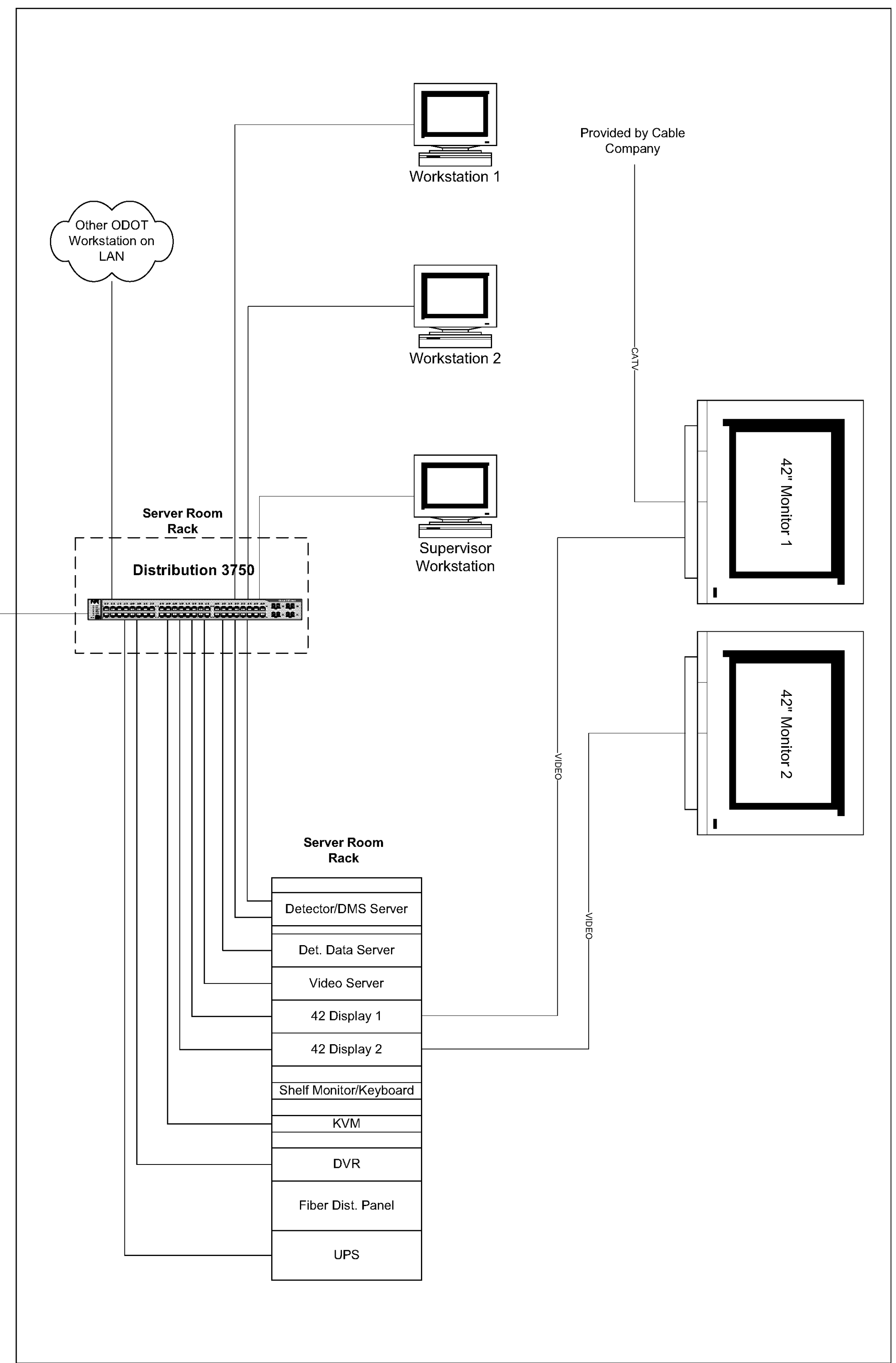


144 Fiber Cables  
144 Fiber Cables



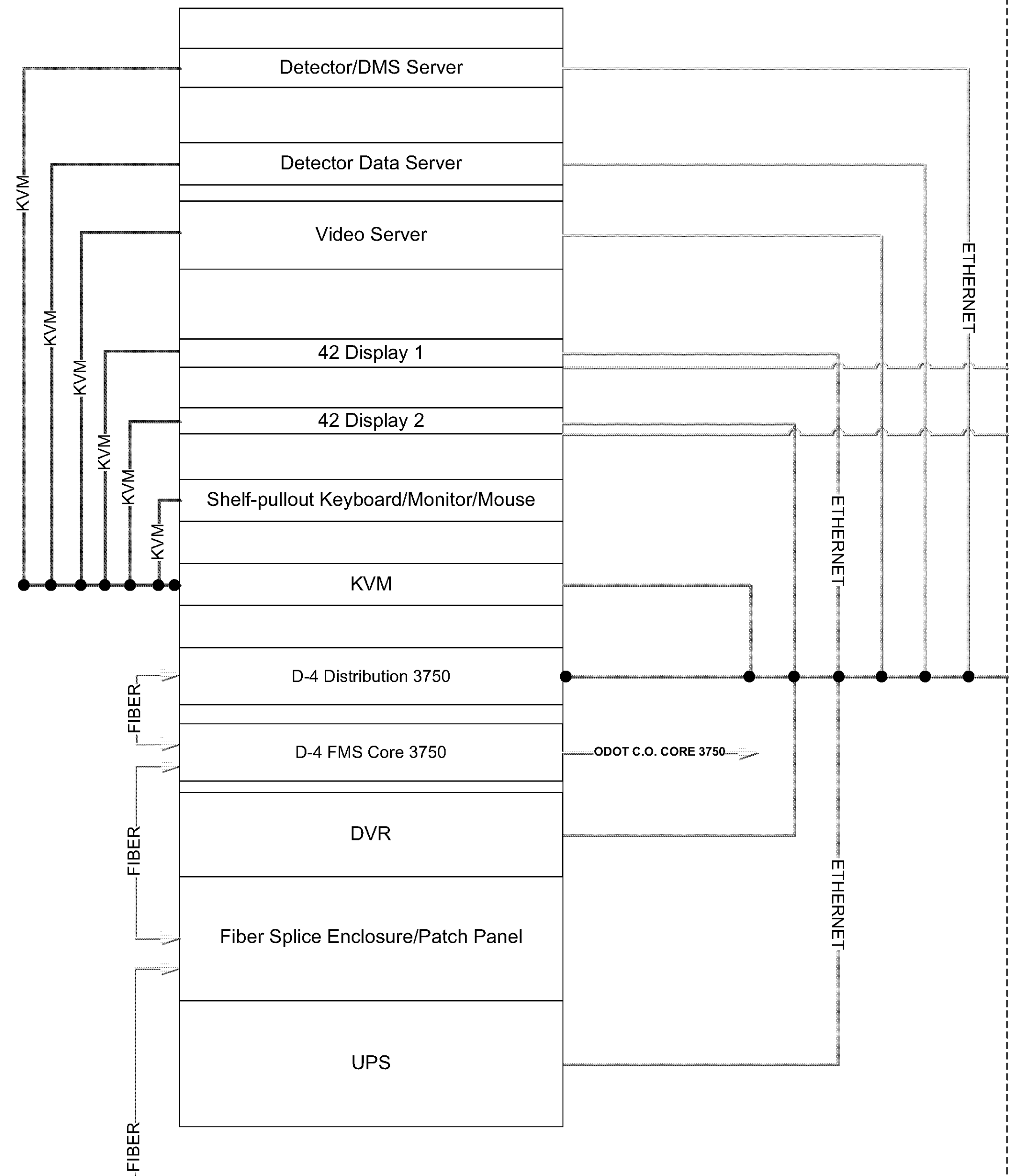
Fiber Jumper  
Fiber Jumper

**ODOT D-4 TMC**



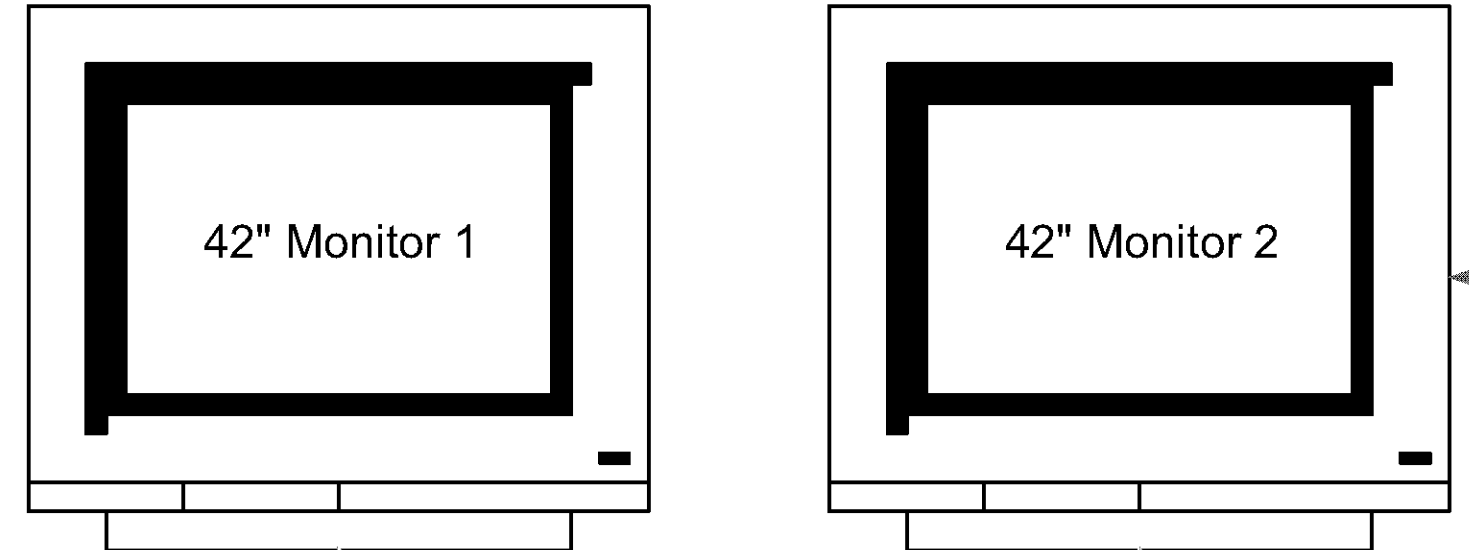
TRAFFIC MANAGEMENT CENTER

SERVER ROOM RACK



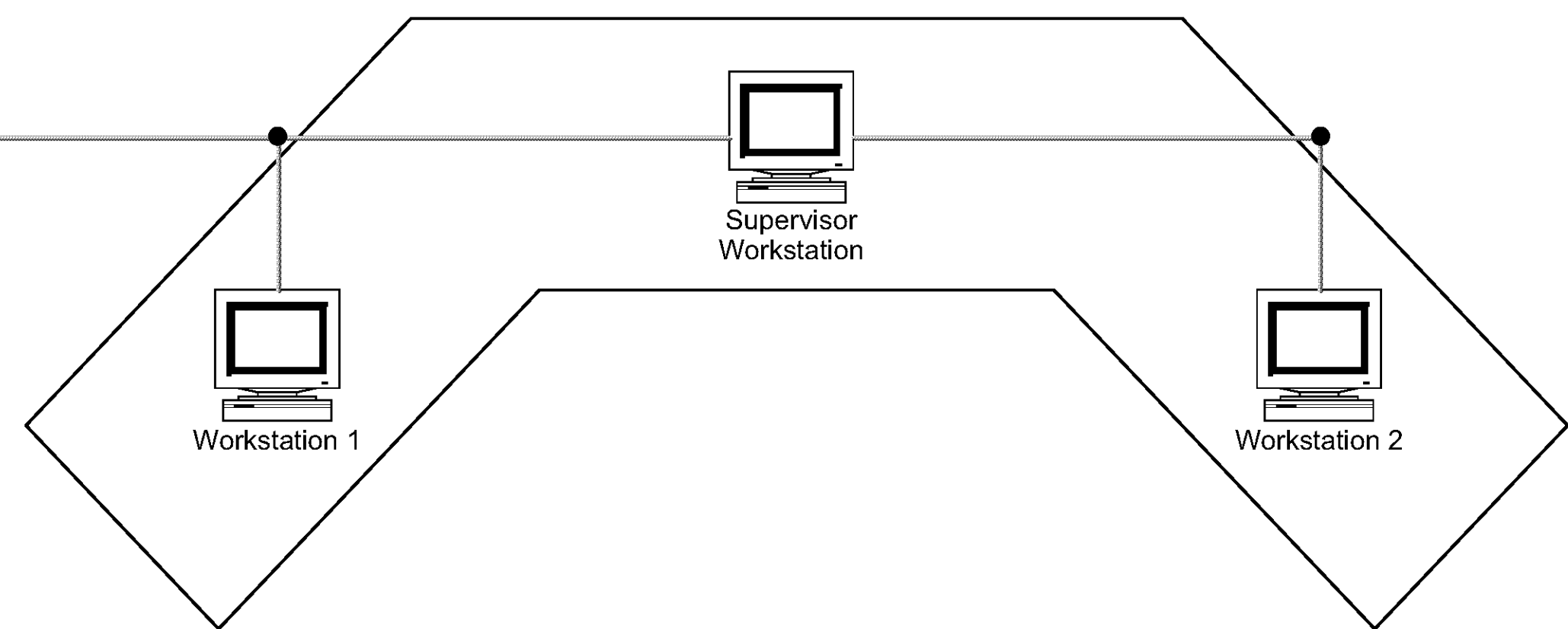
(2) 144-FIBER CABLES

Screen Wall



CATV Provide by Cable Company

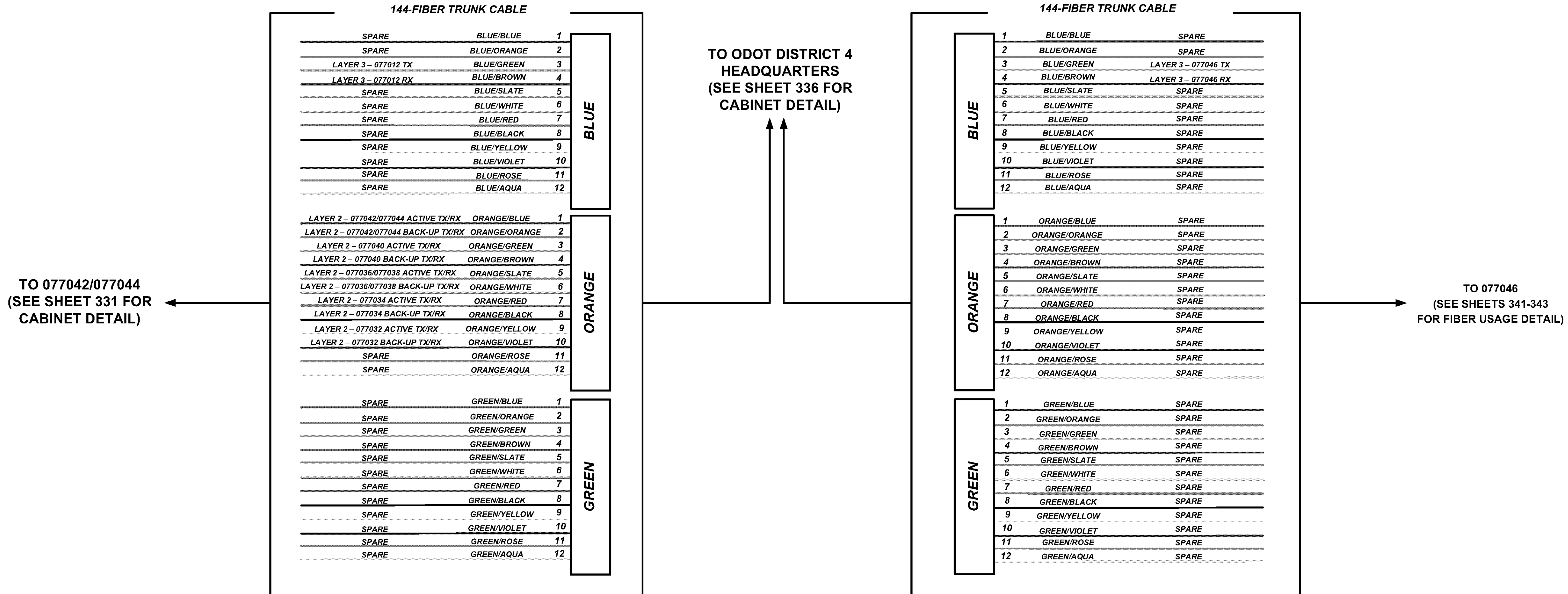
TMC Consoles



CALCULATED RM CHECKED JDG

TRAFFIC MANAGEMENT CENTER EQUIPMENT ROOM SERVER CONNECTIONS

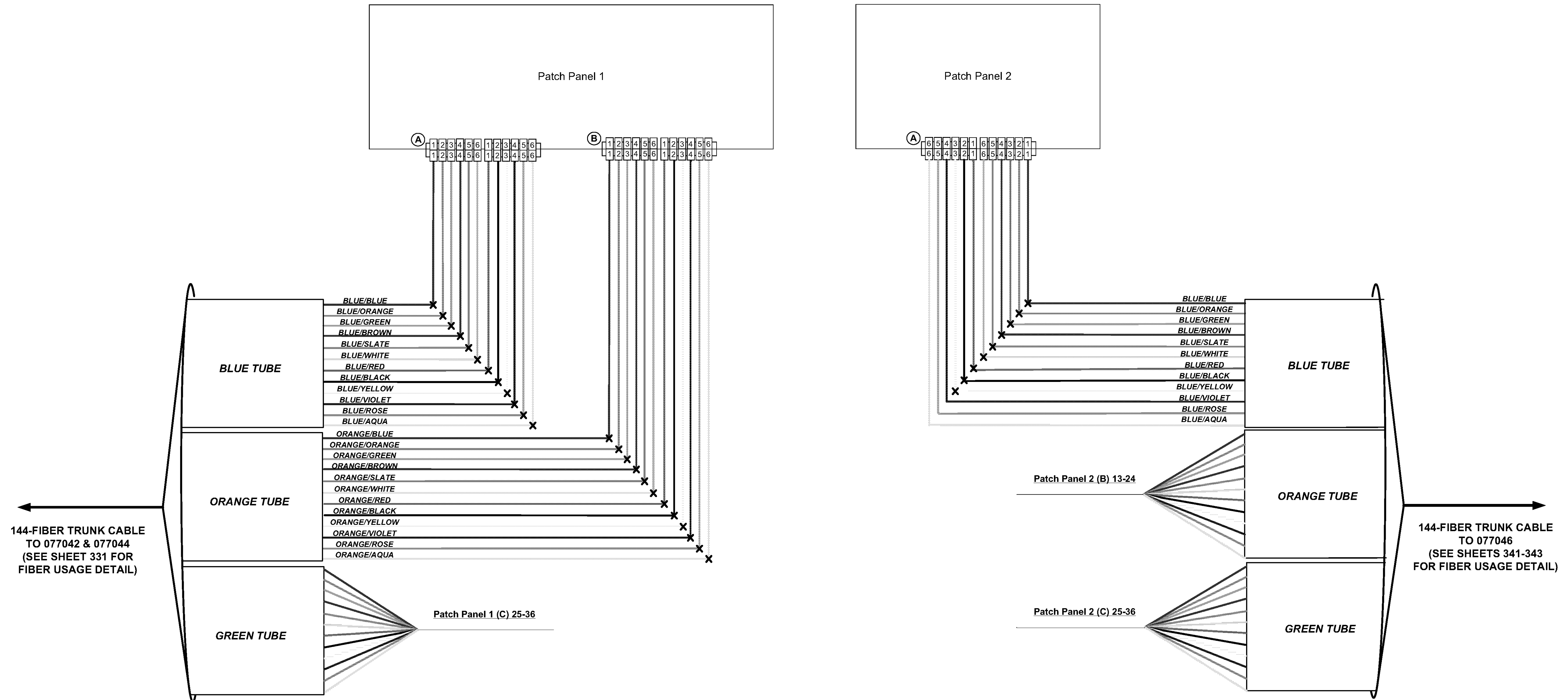
STA-SUM ITS



**NOTES**

1. FIBERS NOT SHOWN SHALL ARE TO BE SPARE UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THIS INCLUDES FIBERS IN THE BROWN, SLATE, WHITE, RED, BLACK, YELLOW, VIOLET, ROSE, AND AQUA TUBES

D-4 SERVER ROOM RACK  
PATCH PANEL/SPLICE ENCLOSURE



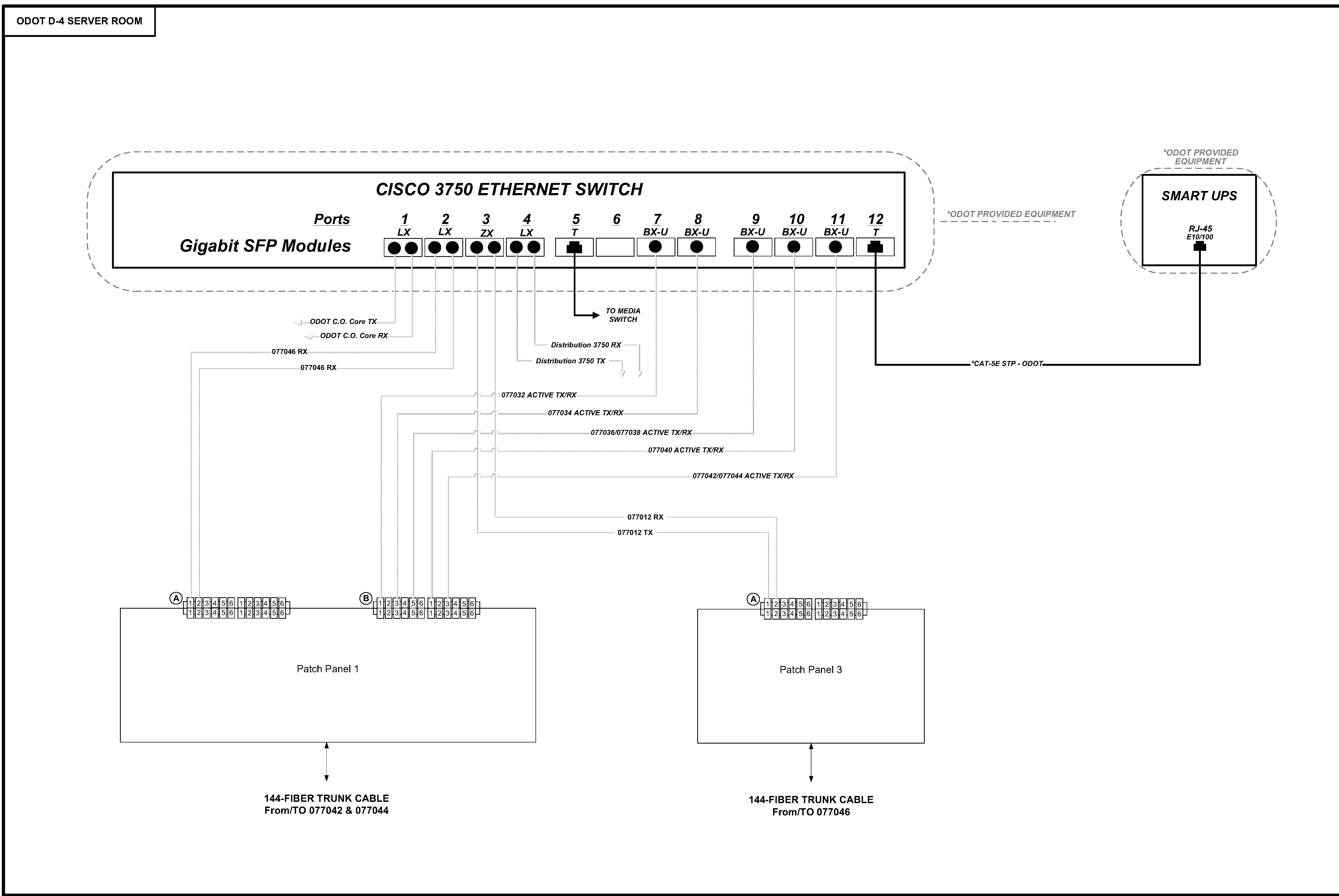
*\* SPLICE ONLY 36 FIBERS OF THE 144 TRUNK CABLE.  
TERMINATE ON CORRESPONDING COLORS AND  
PATCH PANEL NUMBERS. SPARE BUFFER TUBES/BARE  
FIBERS LEAVE COILED IN SPLICE TRAY*

*\* SPLICE ONLY 36 FIBERS OF THE 144 TRUNK CABLE.  
TERMINATE ON CORRESPONDING COLORS AND  
PATCH PANEL NUMBERS. SPARE BUFFER TUBES/BARE FIBERS  
LEAVE COILED IN SPLICE TRAY*

CALCULATED  
RM  
CHECKED  
JDG

FIBER ASSIGNMENT DETAIL DRAWING WITH ACTUAL FIBER USAGE SHOWN  
COMMUNICATIONS CABINET AT ODOT DISTRICT 4 TRAFFIC MANAGEMENT CENTER

STA-SUM ITS

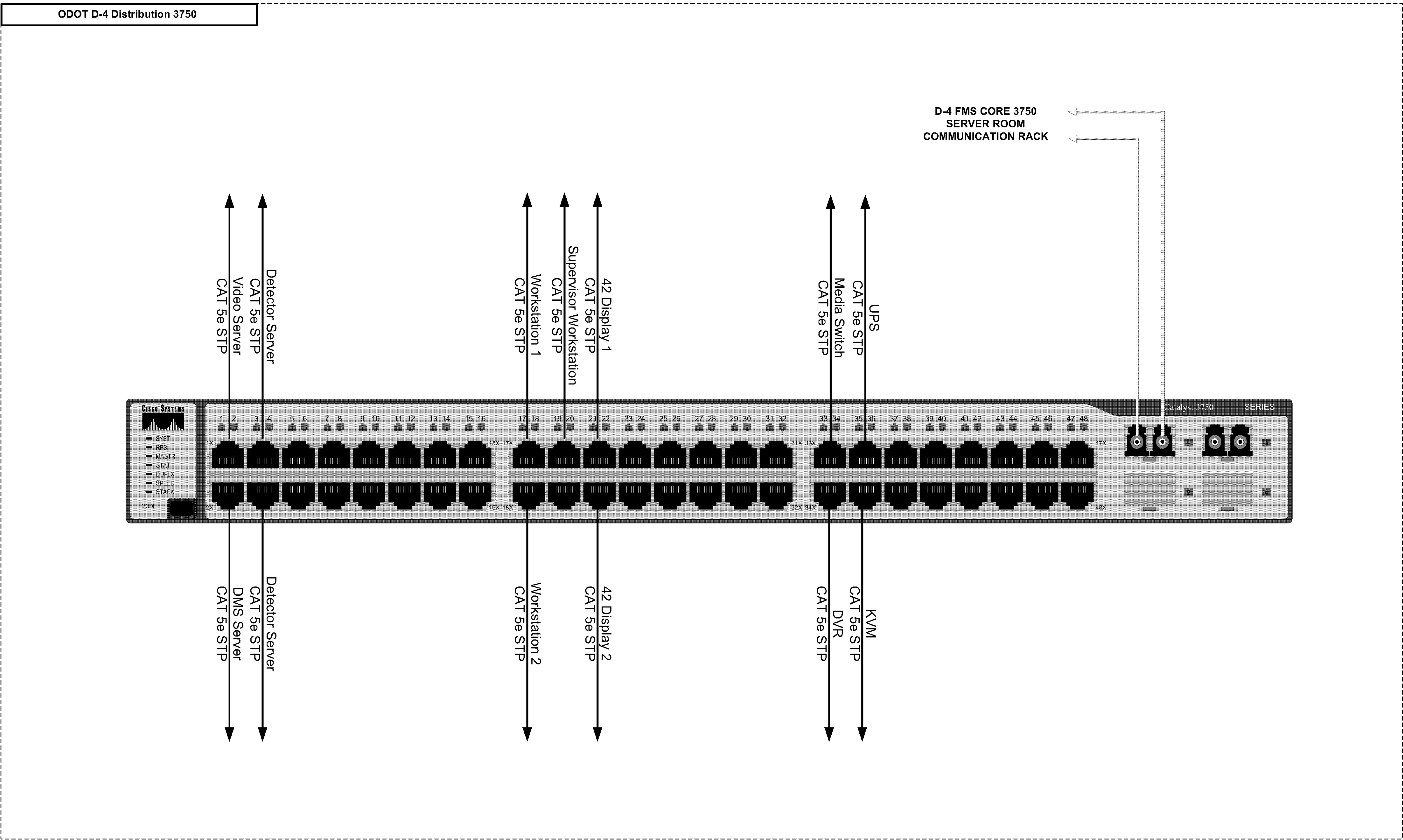


CALCULATED  
RM  
CHECKED  
JDG

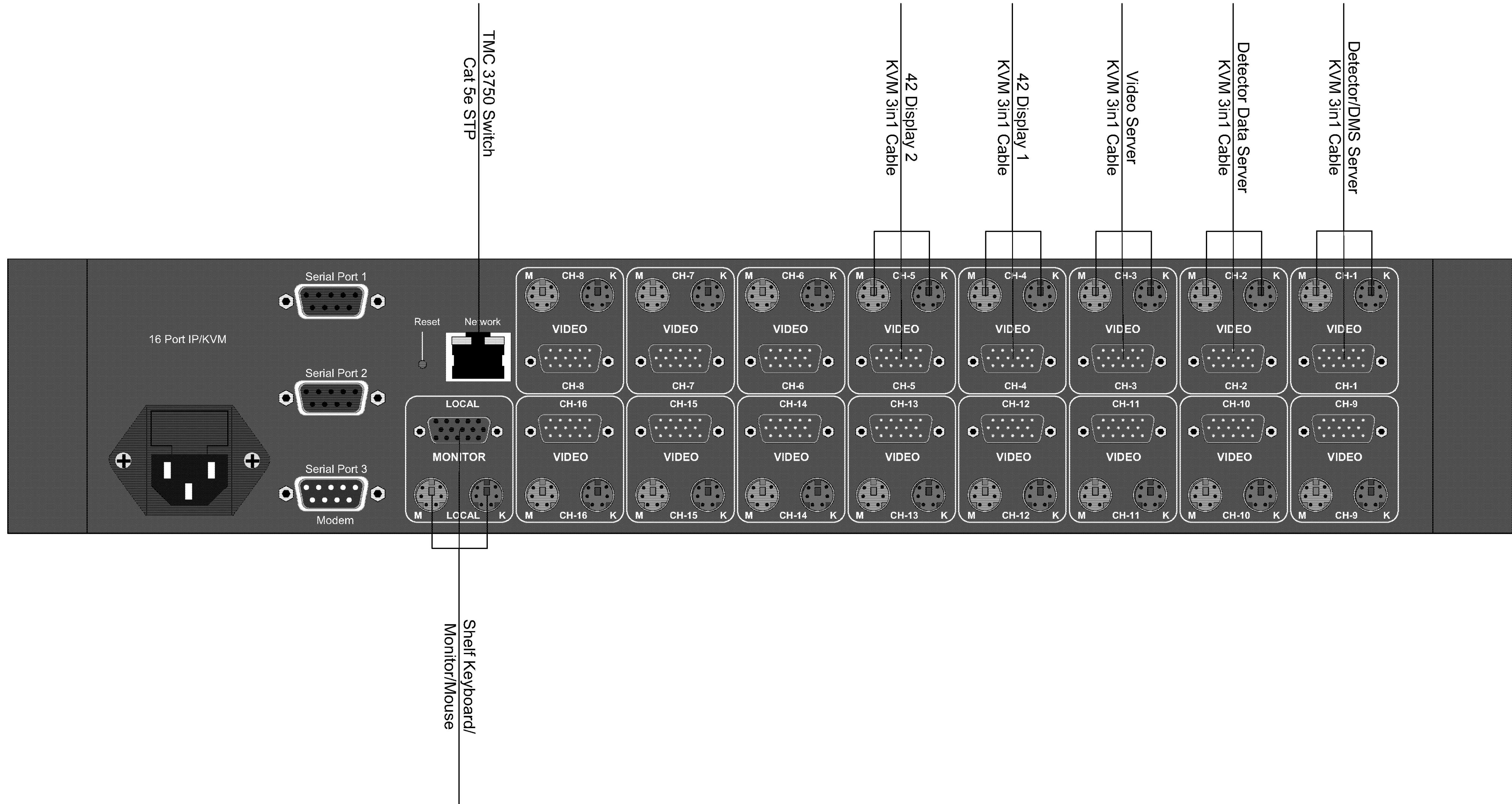
FIBER ASSIGNMENT DETAIL DRAWING WITH ACTUAL FIBER USAGE SHOWN  
COMMUNICATIONS CABINET AT DISTRICT 4 HEADQUARTERS

STA-SUM ITS





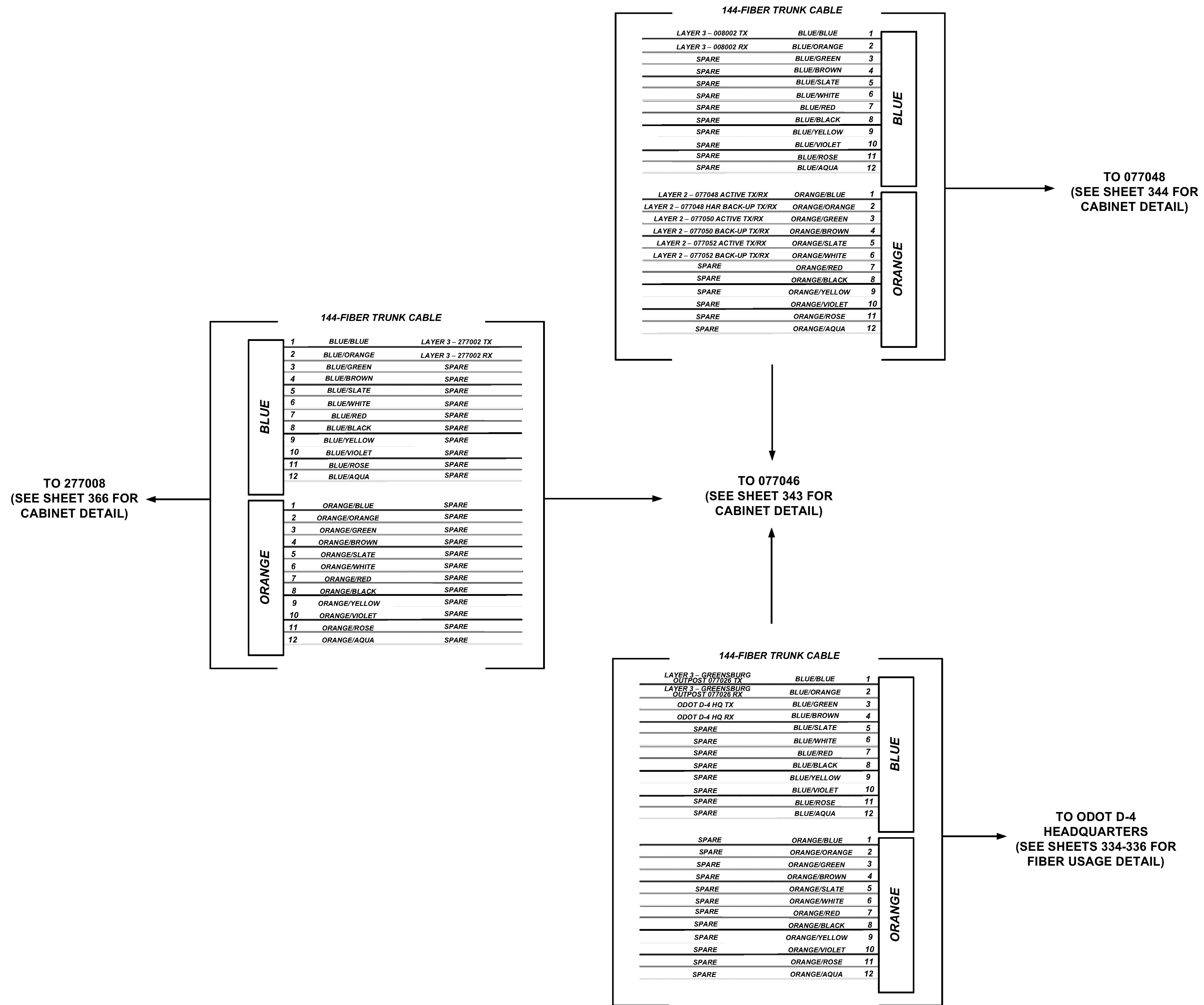
TMC EQUIPMENT ROOM SERVER RACK



CALCULATED  
RM  
CHECKED  
JDG

TRAFFIC MANAGEMENT CENTER  
EQUIPMENT ROOM SERVER RACK KVM CONNECTIONS

STA-SUM ITS



NOTES

1. FIBERS NOT SHOWN SHALL ARE TO BE SPARE UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THIS INCLUDES FIBERS IN THE GREEN, BROWN, SLATE, WHITE, RED, BLACK, YELLOW, VIOLET, ROSE, AND AQUA TUBES

**144-FIBER TRUNK CABLE**

BROWN, SLATE, WHITE, RED, BLACK, YELLOW, VIOLET, ROSE, AND AQUA TUBES (NOT SHOWN) CONTAIN SPARE FIBERS

TO 077046  
COMMUNICATIONS CABINET  
(SEE SHEET 343)

**NOTES**

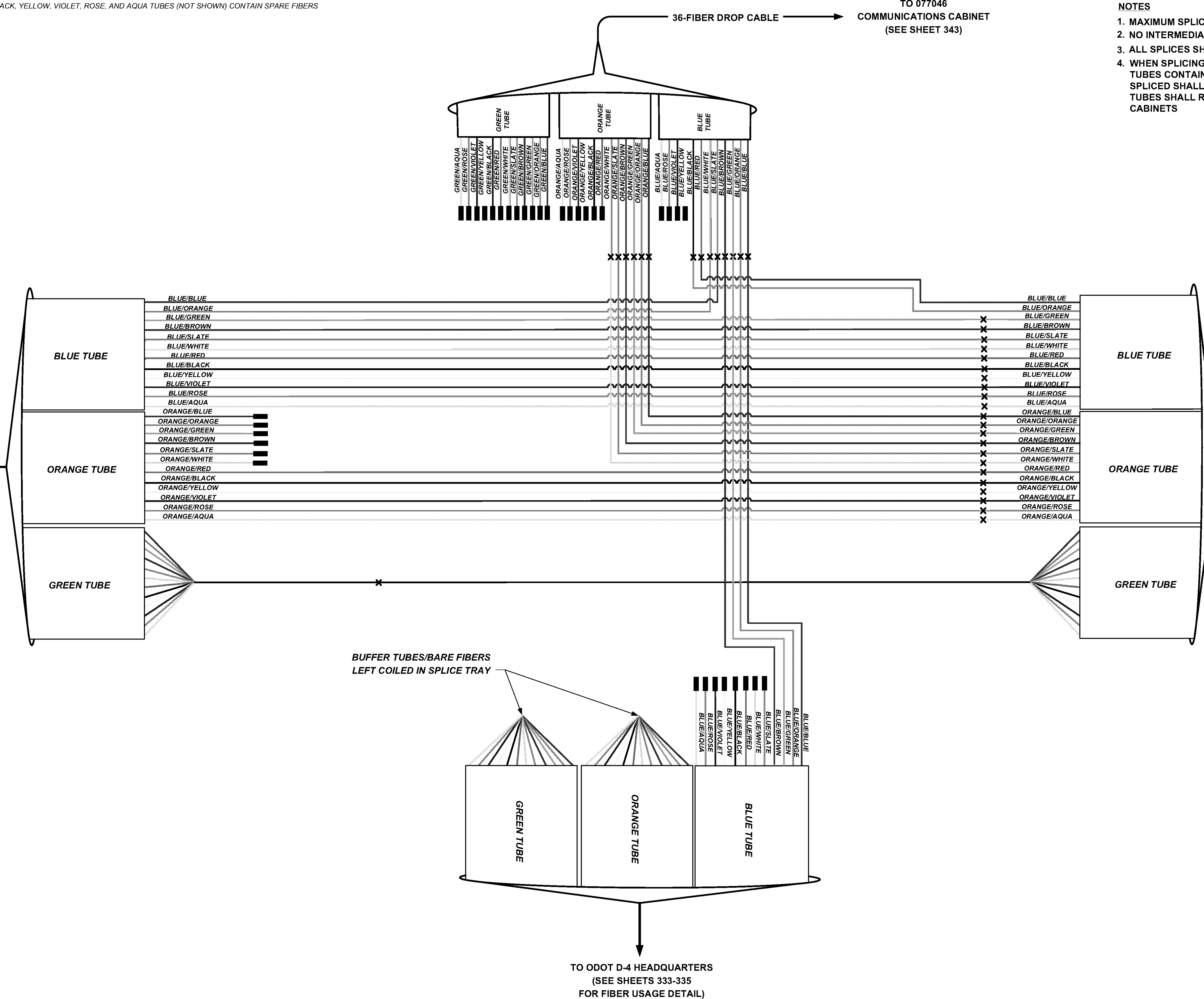
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3. ALL SPLICES SHALL BE FUSION SPLICES
4. WHEN SPLICING UNDERGROUND, ONLY TUBES CONTAINING FIBERS TO BE SPLICED SHALL BE CUT. ALL OTHER TUBES SHALL RUN UN-CUT BETWEEN CABINETS

TO 277008  
(SEE SHEET 366 FOR  
CABINET DETAIL)

TO 077048  
(SEE SHEET 344 FOR  
FIBER USAGE DETAIL)

BUFFER TUBES/BARE FIBERS  
LEFT COILED IN SPLICE TRAY

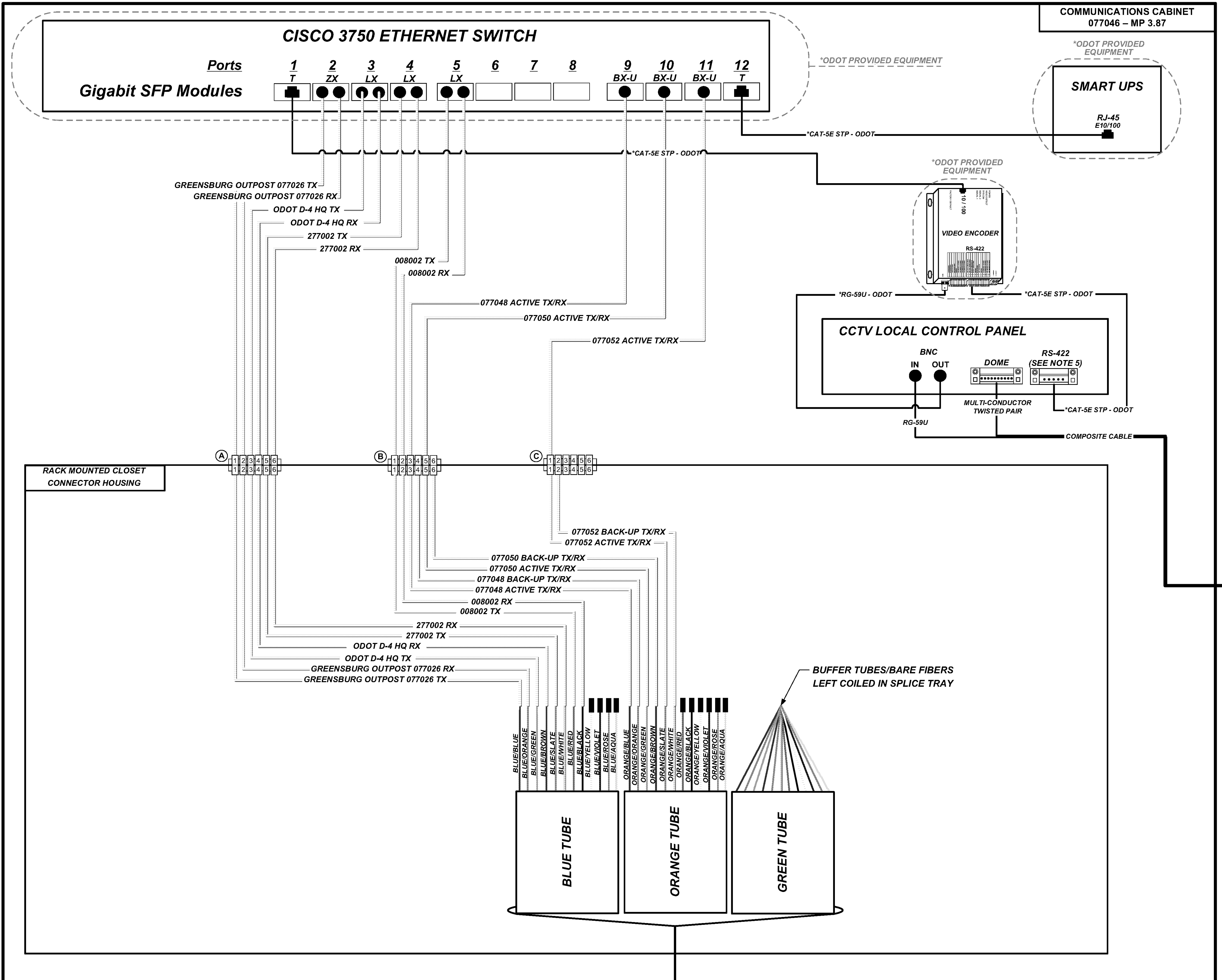
TO ODOT D-4 HEADQUARTERS  
(SEE SHEETS 333-335  
FOR FIBER USAGE DETAIL)



CALCULATED  
RM  
CHECKED  
JDG

FIBER ASSIGNMENT DETAIL DRAWING WITH ACTUAL FIBER USAGE SHOWN  
COMMUNICATIONS CABINET 077046

STA-SUM ITS



**KEY**

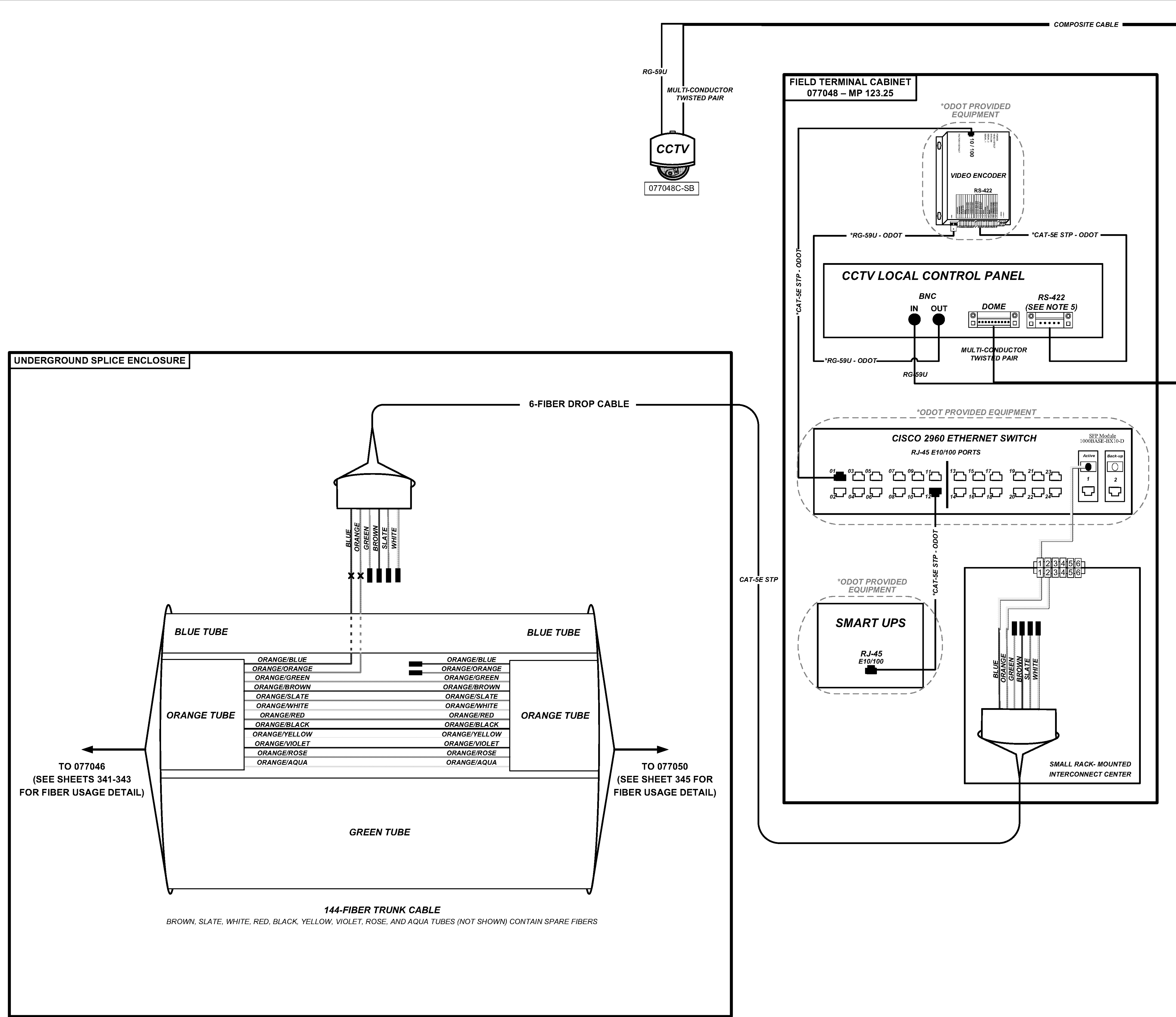
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DEVICE NUMBER FOLLOWED BY 'D'
- CCTV CAMERA  
DEVICE NUMBER FOLLOWED BY 'C'
- DMS  
DYNAMIC MESSAGE SIGN  
DEVICE NUMBER FOLLOWED BY 'S'
- EQUIPMENT CONNECTION FIBER OPTIC JUMPER
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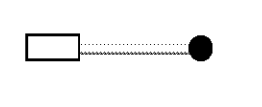
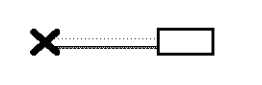


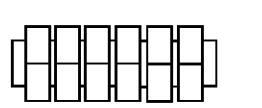
FIBER ASSIGNMENT DETAIL DRAWING WITH ACTUAL FIBER USAGE SHOWN COMMUNICATIONS CABINET 077046

STA-SUM ITS

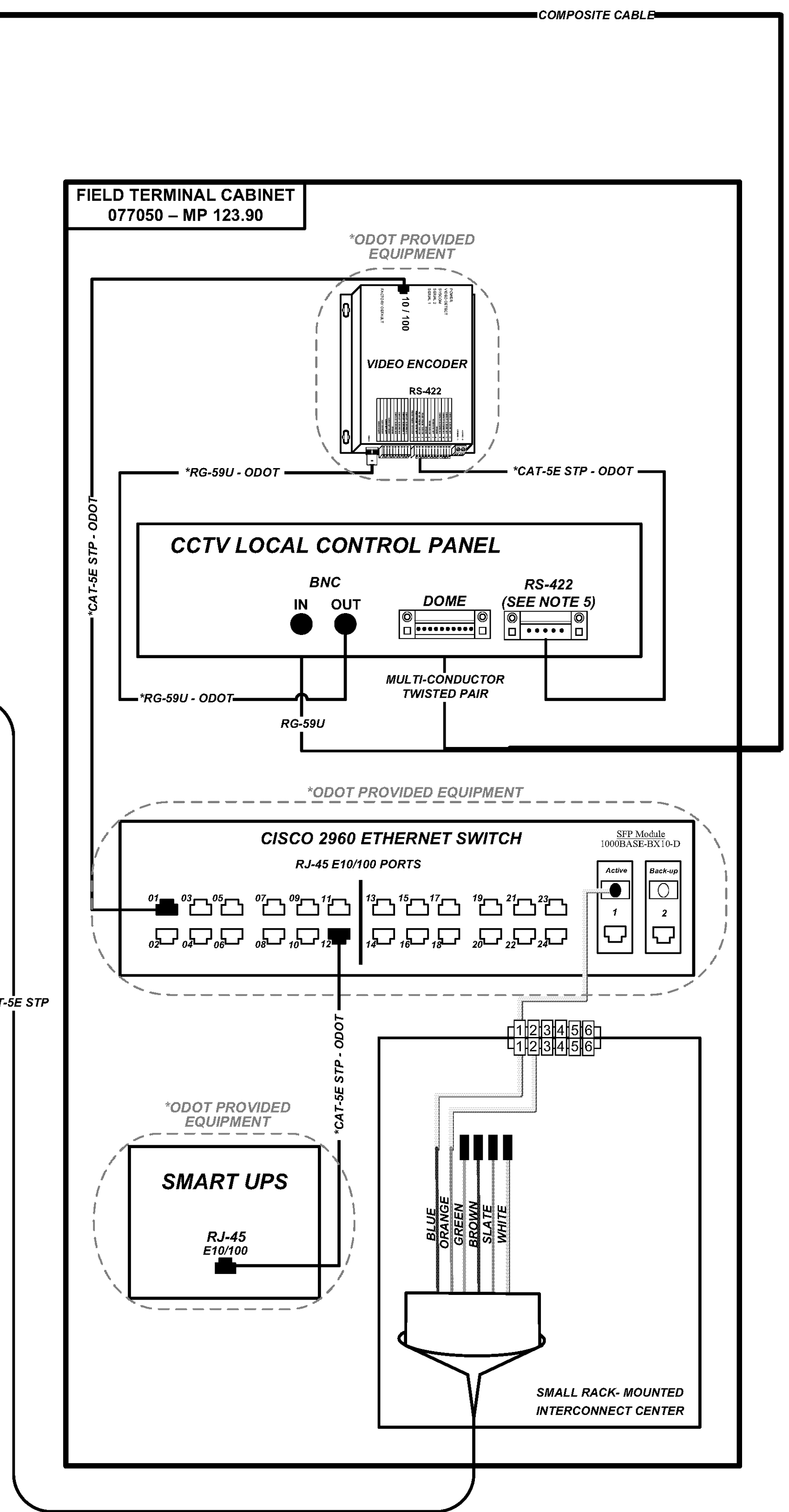
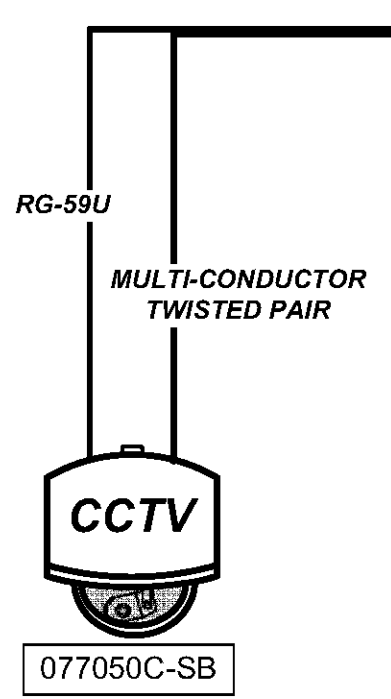
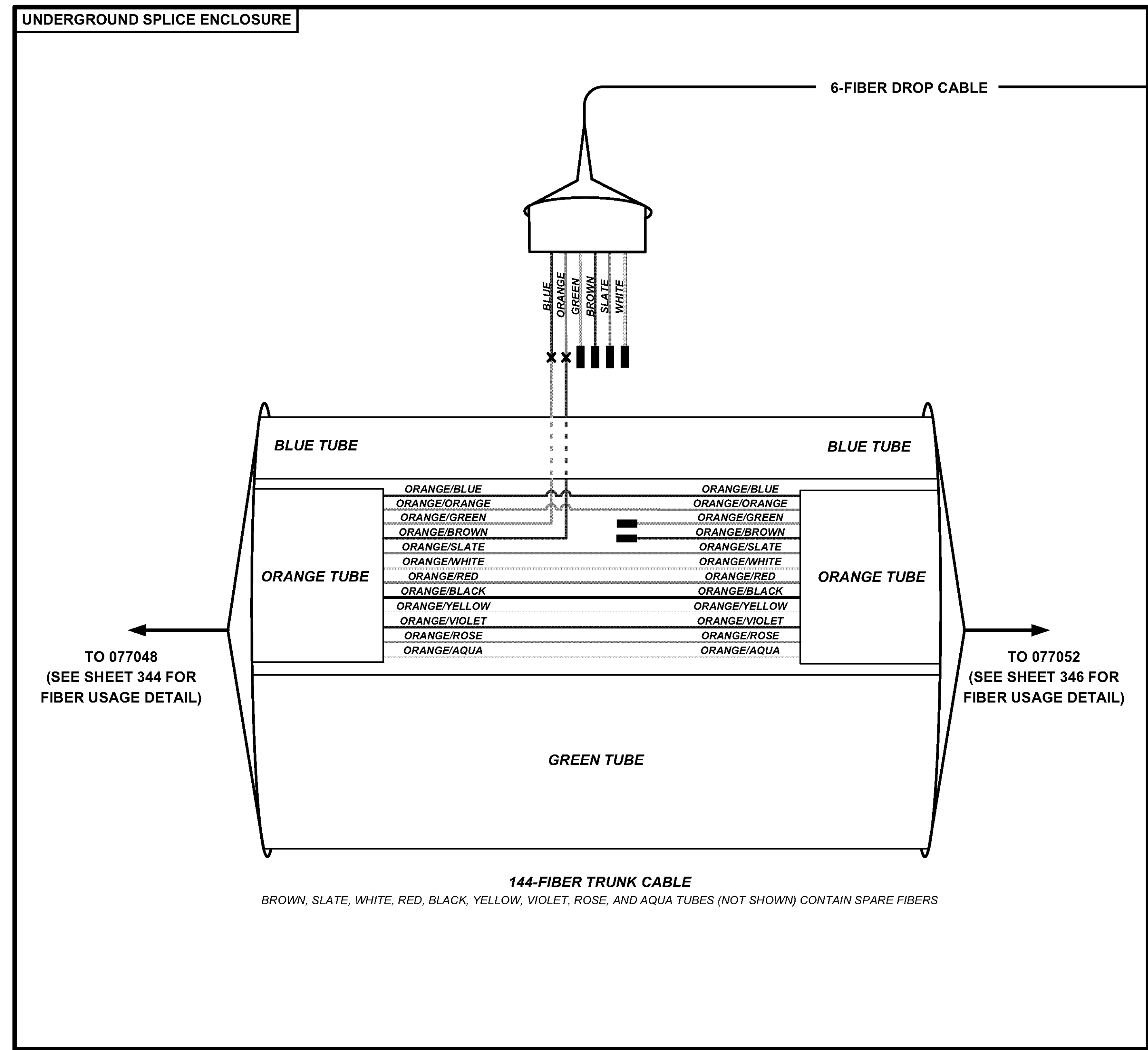




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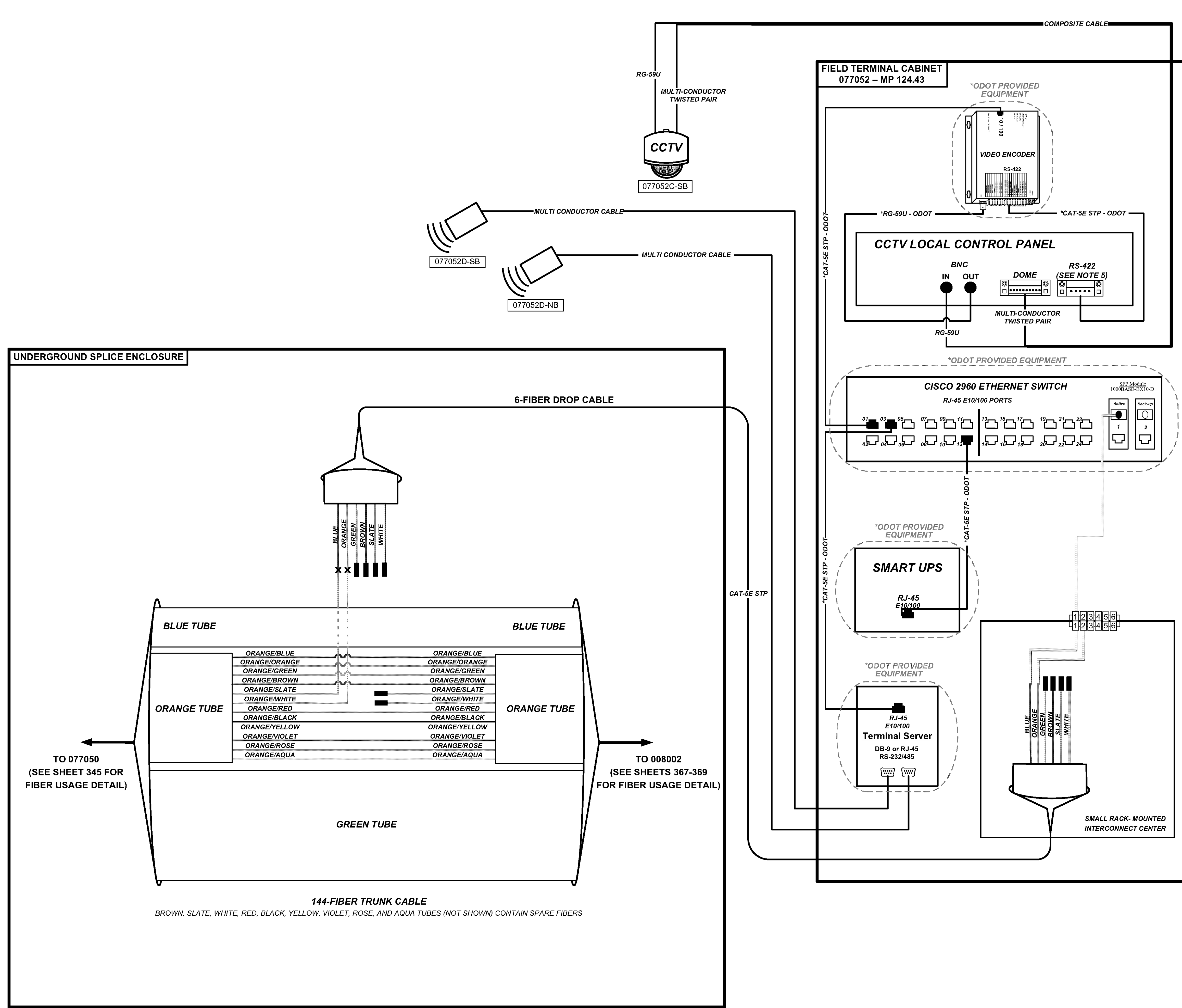
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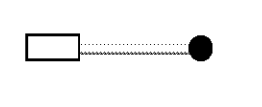
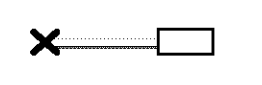


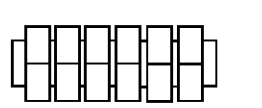
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**144-FIBER TRUNK CABLE**  
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**UNDERGROUND SPLICE ENCLOSURE**

**FIELD TERMINAL CABINET**  
077052 - MP 124.43

\*ODOT PROVIDED EQUIPMENT

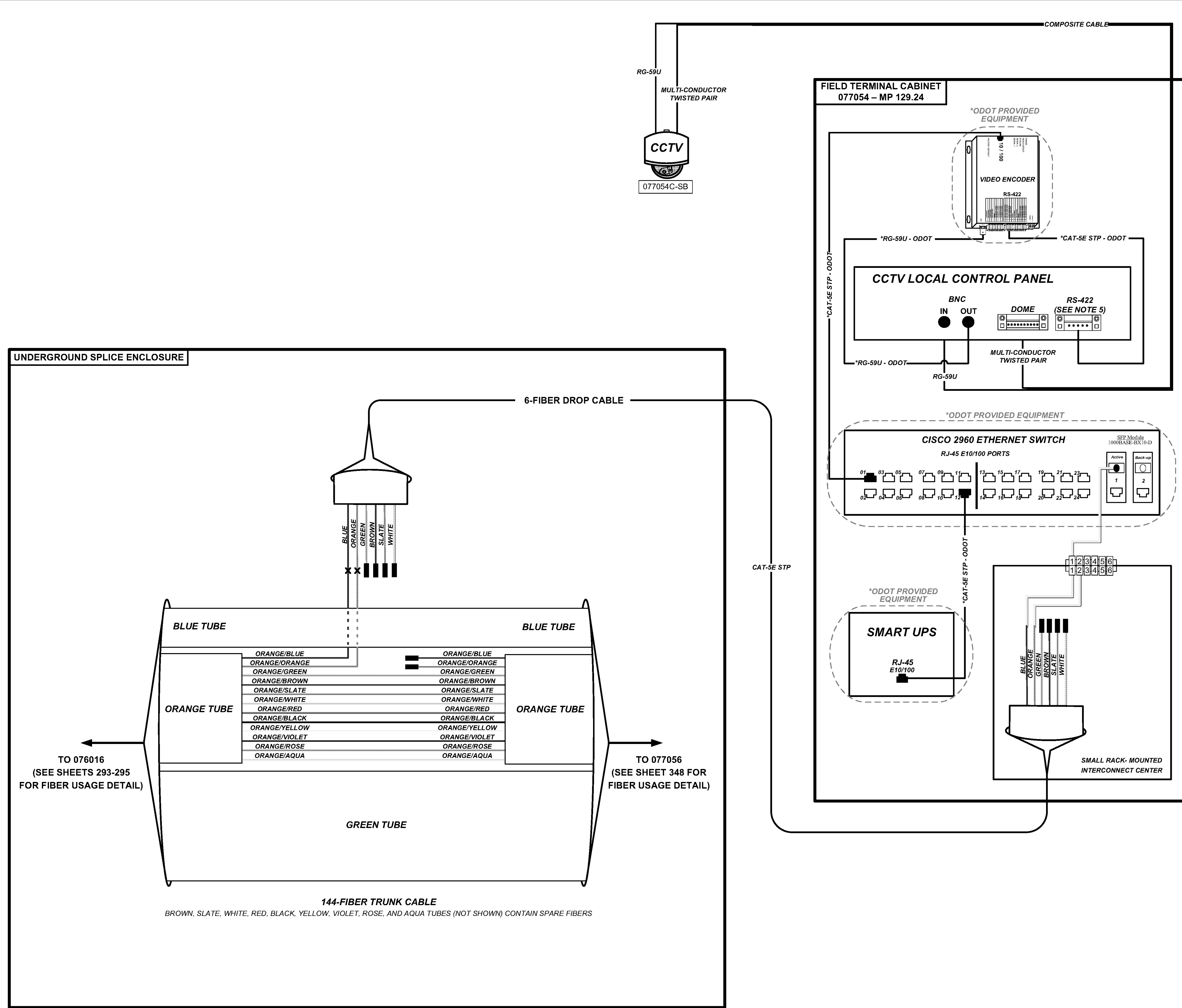
**CCTV LOCAL CONTROL PANEL**

**CISCO 2960 ETHERNET SWITCH**  
RJ-45 E10/100 PORTS




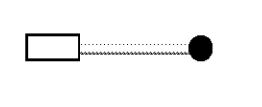
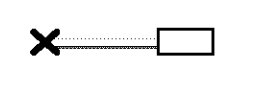


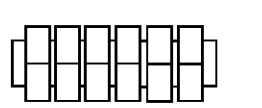
**SMART UPS**  
RJ-45 E10/100

**Terminal Server**  
RJ-45 E10/100  
DB-9 or RJ-45 RS-232/485

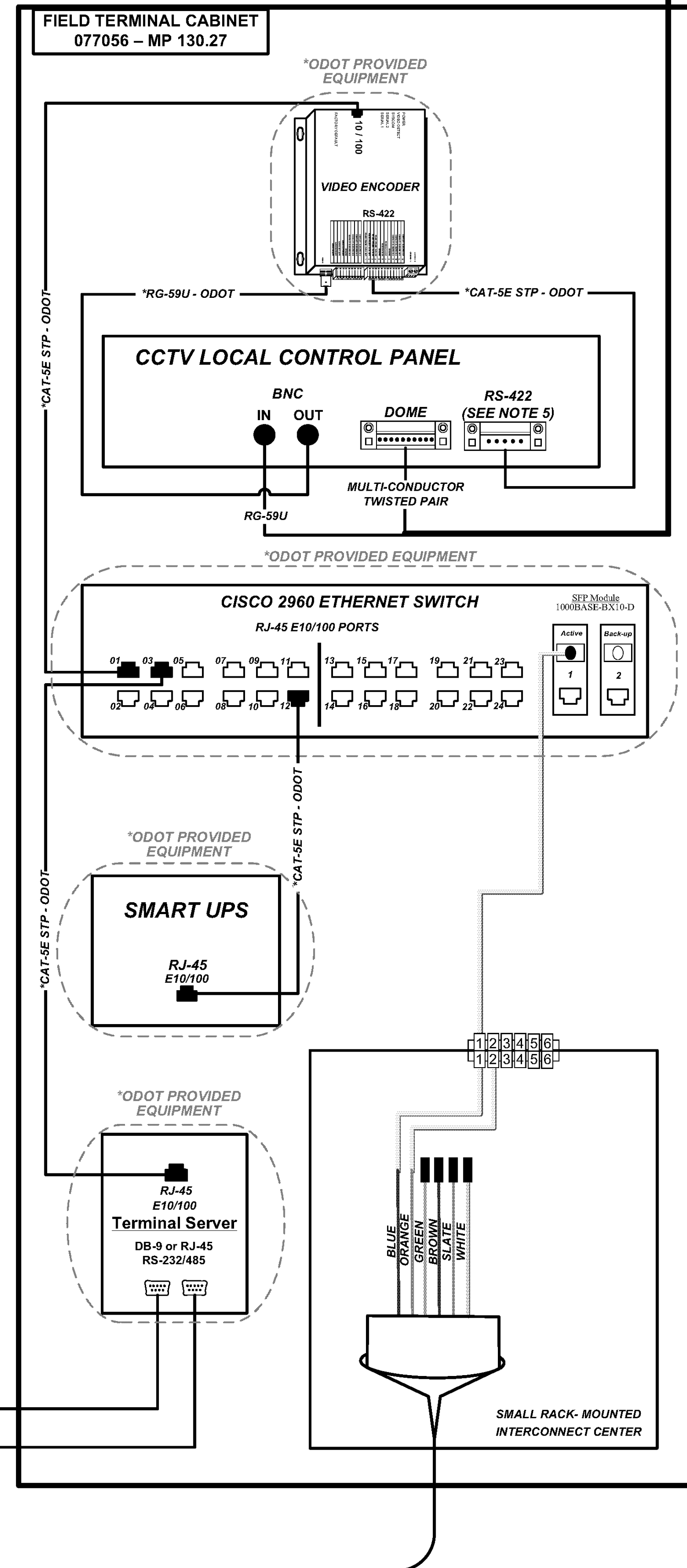
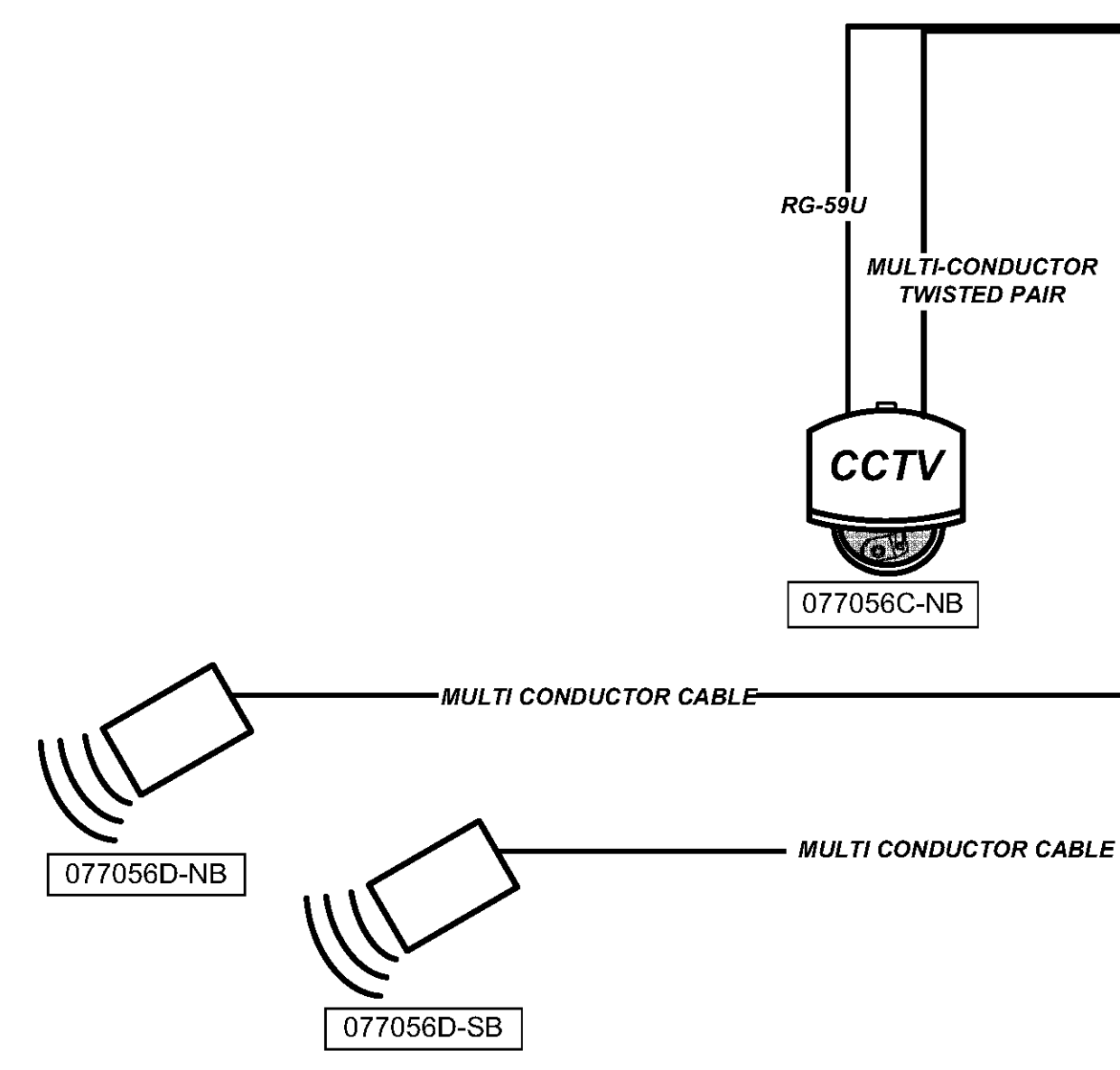
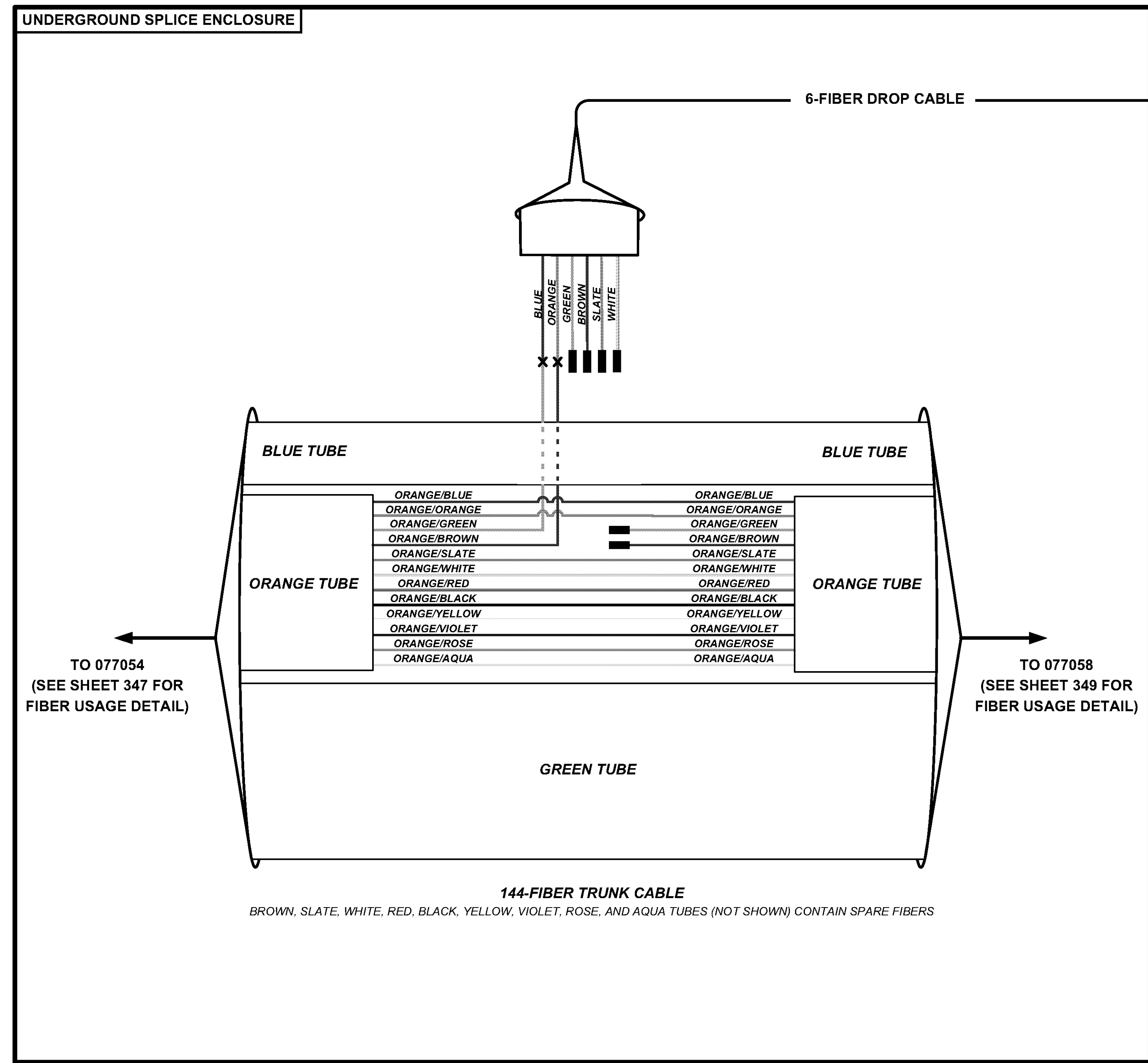
SMALL RACK-MOUNTED  
INTERCONNECT CENTER



**KEY**

-  VEHICLE DETECTOR  
DEVICE NUMBER FOLLOWED BY 'D'
-  CCTV CAMERA  
DEVICE NUMBER FOLLOWED BY 'C'
-  DMS  
DYNAMIC MESSAGE SIGN  
DEVICE NUMBER FOLLOWED BY 'S'
-  EQUIPMENT CONNECTION  
FIBER OPTIC JUMPER
-  FIBER OPTIC PIGTAIL
-  EXISTING/PROPOSED  
BARE FIBER LEFT  
COILED IN SPLICE TRAY
-  EXISTING/PROPOSED  
FUSION SPLICE
-  CONNECTOR MODULE

- NOTES**
1. MAXIMUM SPLICE LOSS SHALL BE 0.1 dB
  2. NO INTERMEDIATE SPLICES ALLOWED
  3. ALL SPLICES SHALL BE FUSION SPLICES
  4. WHEN SPLICING UNDERGROUND, WITH THE EXCEPTION OF 3750 LOCATIONS, ONLY TUBES CONTAINING ALLOCATED FIBERS TO BE SPLICED SHALL BE CUT. ALL OTHER TUBES SHALL RUN UN-CUT BETWEEN CABINETS
  5. TERMINATE CAT-5E STP ON SCREW TERMINALS OF APPROPRIATE SERIAL CONNECTOR HOUSING.
  6. ODOT TO INSTALL ALL CISCO PRODUCTS, TERMINAL SERVERS, UPS, AND ALL ASSOCIATED CABLING THAT CONNECTS ODOT PROVIDED EQUIPMENT.

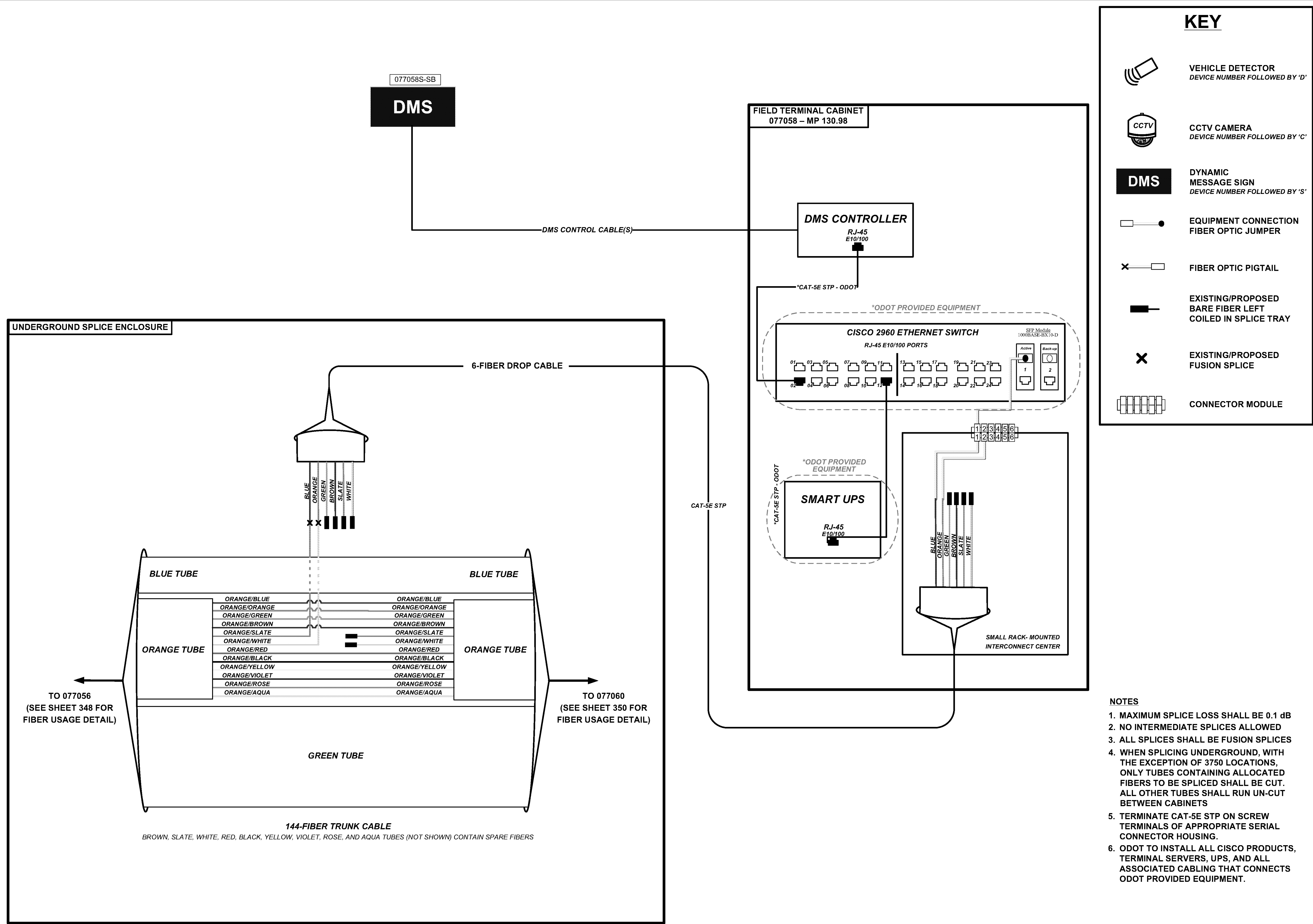


**KEY**

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DEVICE NUMBER FOLLOWED BY 'D'
- CCTV CAMERA  
DEVICE NUMBER FOLLOWED BY 'C'
- DMS  
DYNAMIC MESSAGE SIGN  
DEVICE NUMBER FOLLOWED BY 'S'
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- FIBER OPTIC PIGTAIL
- EXISTING/PROPOSED BARE FIBER LEFT COILED IN SPLICE TRAY
- EXISTING/PROPOSED FUSION SPLICE
- CONNECTOR MODULE

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077058S-SB  
**DMS**

FIELD TERMINAL CABINET  
077058 - MP 130.98

**DMS CONTROLLER**  
RJ-45  
E10/100

**CISCO 2960 ETHERNET SWITCH**  
RJ-45 E10/100 PORTS

**SMART UPS**  
RJ-45  
E10/100

SMALL RACK-MOUNTED  
INTERCONNECT CENTER

UNDERGROUND SPLICE ENCLOSURE

BLUE TUBE

ORANGE/BLUE	ORANGE/BLUE
ORANGE/ORANGE	ORANGE/ORANGE
ORANGE/GREEN	ORANGE/GREEN
ORANGE/BROWN	ORANGE/BROWN
ORANGE/SLATE	ORANGE/SLATE
ORANGE/WHITE	ORANGE/WHITE
ORANGE/RED	ORANGE/RED
ORANGE/BLACK	ORANGE/BLACK
ORANGE/YELLOW	ORANGE/YELLOW
ORANGE/VIOLET	ORANGE/VIOLET
ORANGE/ROSE	ORANGE/ROSE
ORANGE/AQUA	ORANGE/AQUA

ORANGE TUBE

BLUE TUBE

ORANGE TUBE

GREEN TUBE

144-FIBER TRUNK CABLE  
BROWN, SLATE, WHITE, RED, BLACK, YELLOW, VIOLET, ROSE, AND AQUA TUBES (NOT SHOWN) CONTAIN SPARE FIBERS

TO 077056  
(SEE SHEET 348 FOR FIBER USAGE DETAIL)

TO 077060  
(SEE SHEET 350 FOR FIBER USAGE DETAIL)

DMS CONTROL CABLE(S)

6-FIBER DROP CABLE

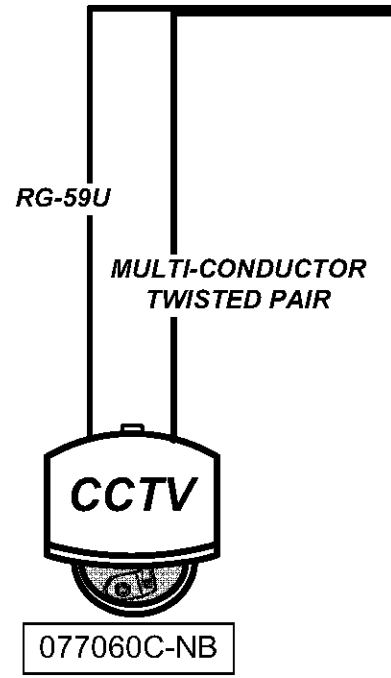
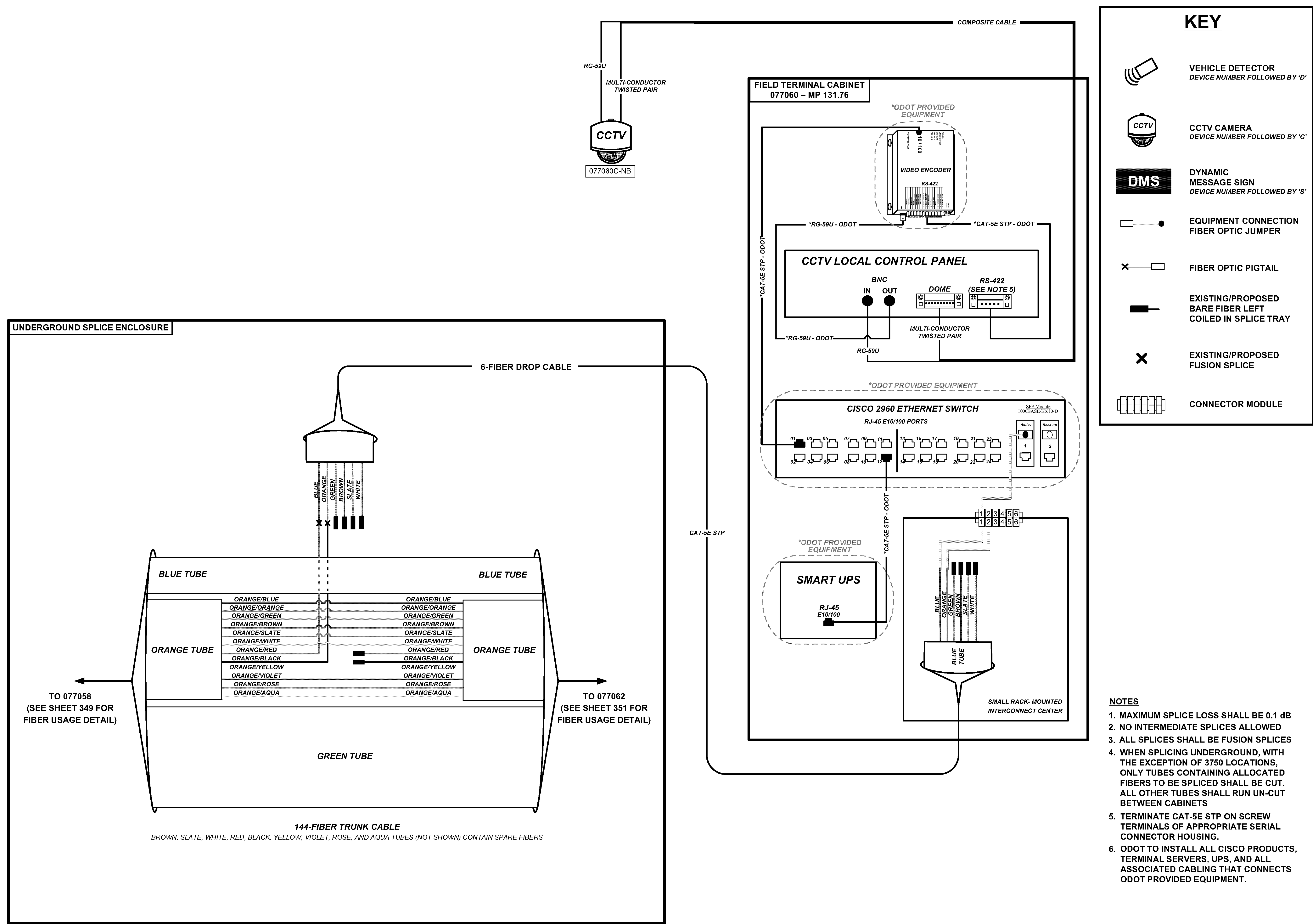
CAT-5E STP

\*CAT-5E STP - ODOT

\*ODOT PROVIDED EQUIPMENT

\*CAT-5E STP - ODOT

\*ODOT PROVIDED EQUIPMENT



**FIELD TERMINAL CABINET**  
077060 – MP 131.76

\*ODOT PROVIDED  
EQUIPMENT

VIDEO ENCODER  
RS-422

\*RG-59U - ODOT \*CAT-5E STP - ODOT

**CCTV LOCAL CONTROL PANEL**

BNC IN OUT  
DOME (SEE NOTE 5)  
RS-422

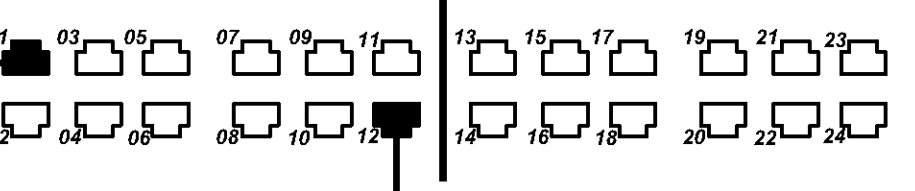
MULTI-CONDUCTOR  
TWISTED PAIR

RG-59U

\*ODOT PROVIDED  
EQUIPMENT

**CISCO 2960 ETHERNET SWITCH**  
RJ-45 E10/100 PORTS

SFP Module  
1000BASE-BX10-D



\*ODOT PROVIDED  
EQUIPMENT

**SMART UPS**

RJ-45  
E10/100

BLUE  
ORANGE  
GREEN  
BROWN  
SLATE  
WHITE

BLUE  
TUBE

SMALL RACK- MOUNTED  
INTERCONNECT CENTER

**UNDERGROUND SPLICE ENCLOSURE**

6-FIBER DROP CABLE

BLUE  
ORANGE  
GREEN  
BROWN  
SLATE  
WHITE

BLUE TUBE

BLUE TUBE

ORANGE TUBE

ORANGE TUBE



TO 077058  
(SEE SHEET 349 FOR  
FIBER USAGE DETAIL)




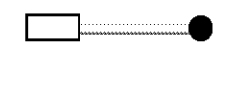
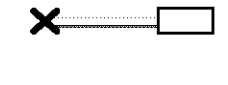


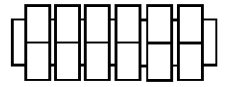
TO 077062  
(SEE SHEET 351 FOR  
FIBER USAGE DETAIL)

GREEN TUBE

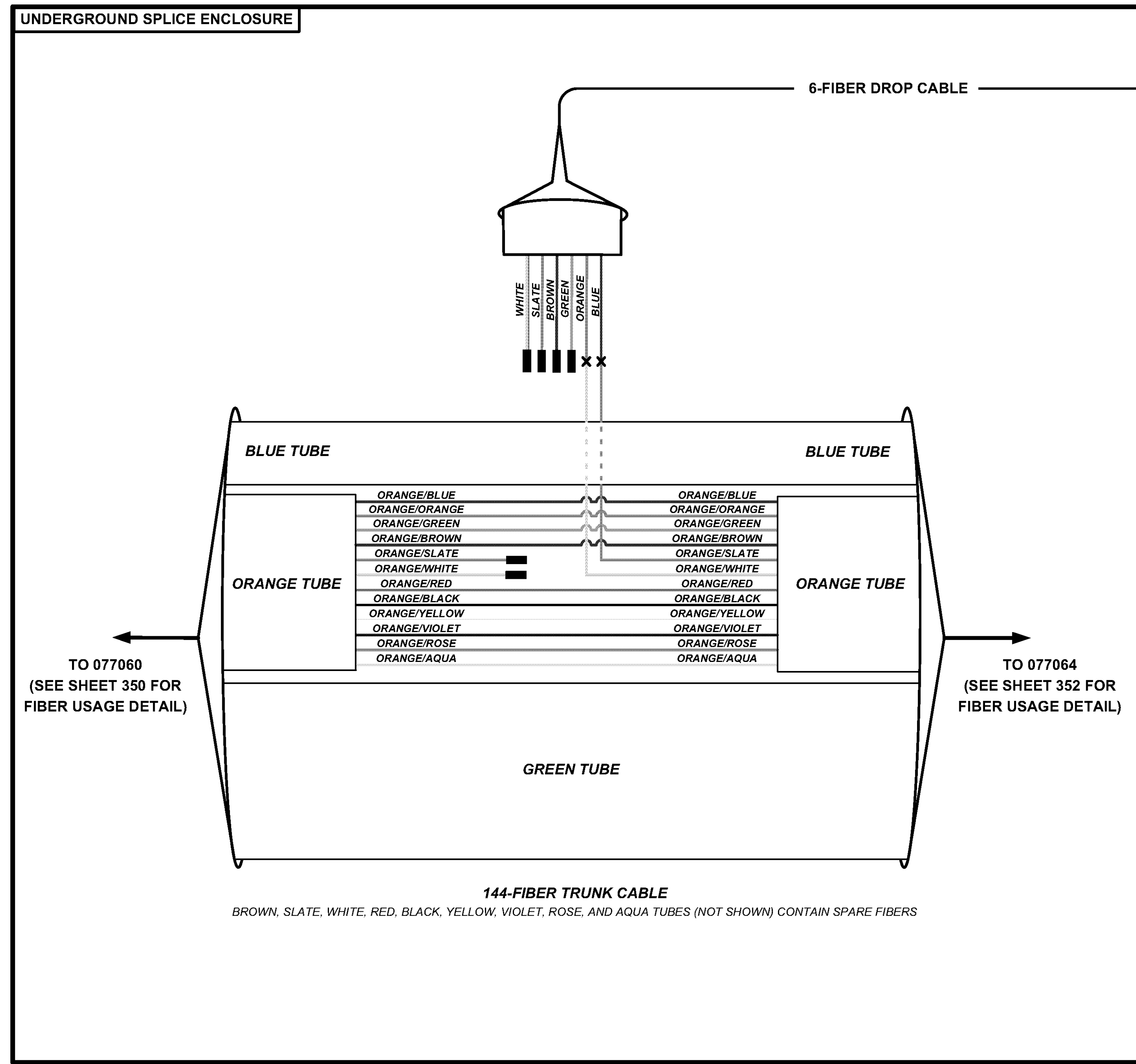
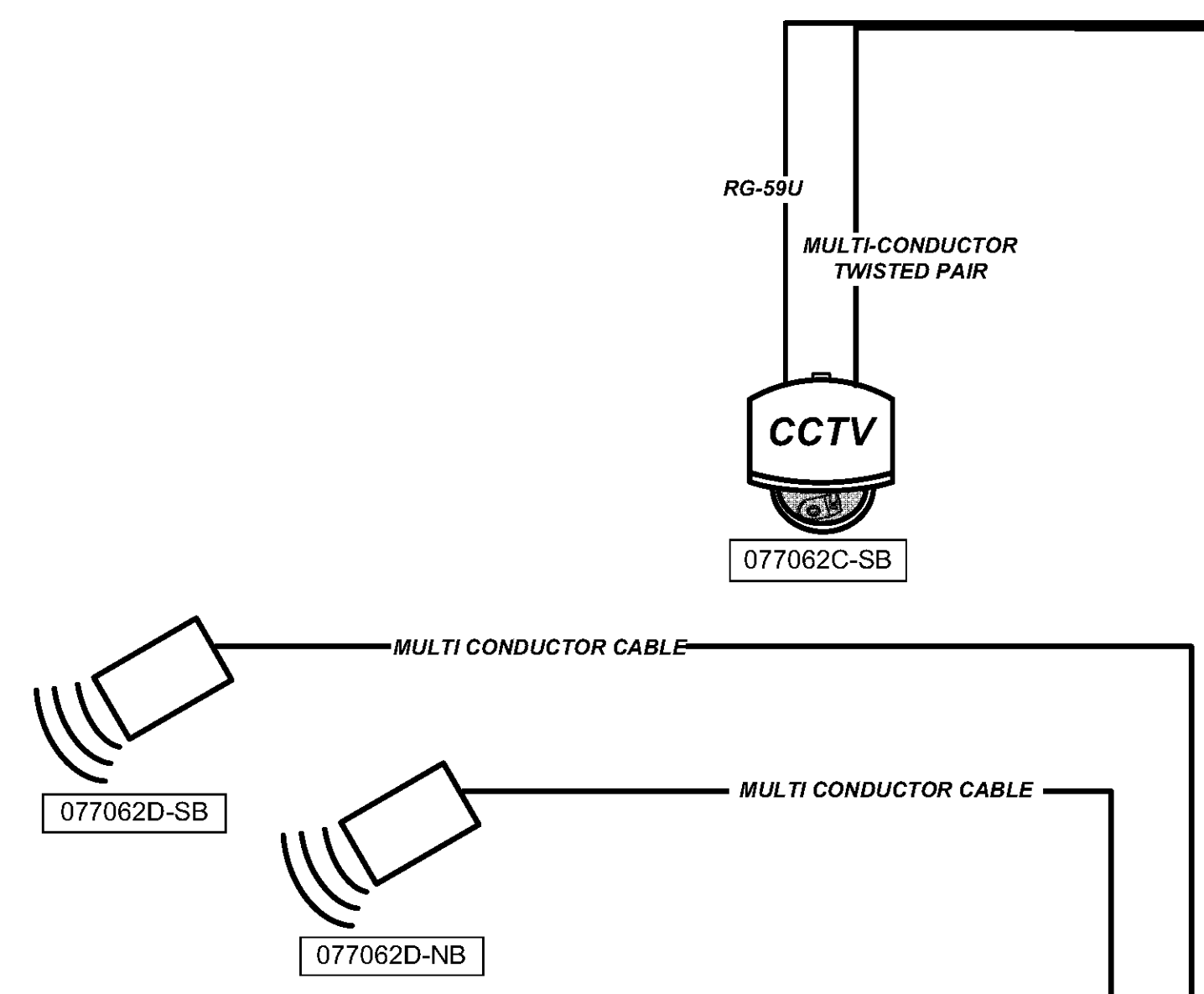
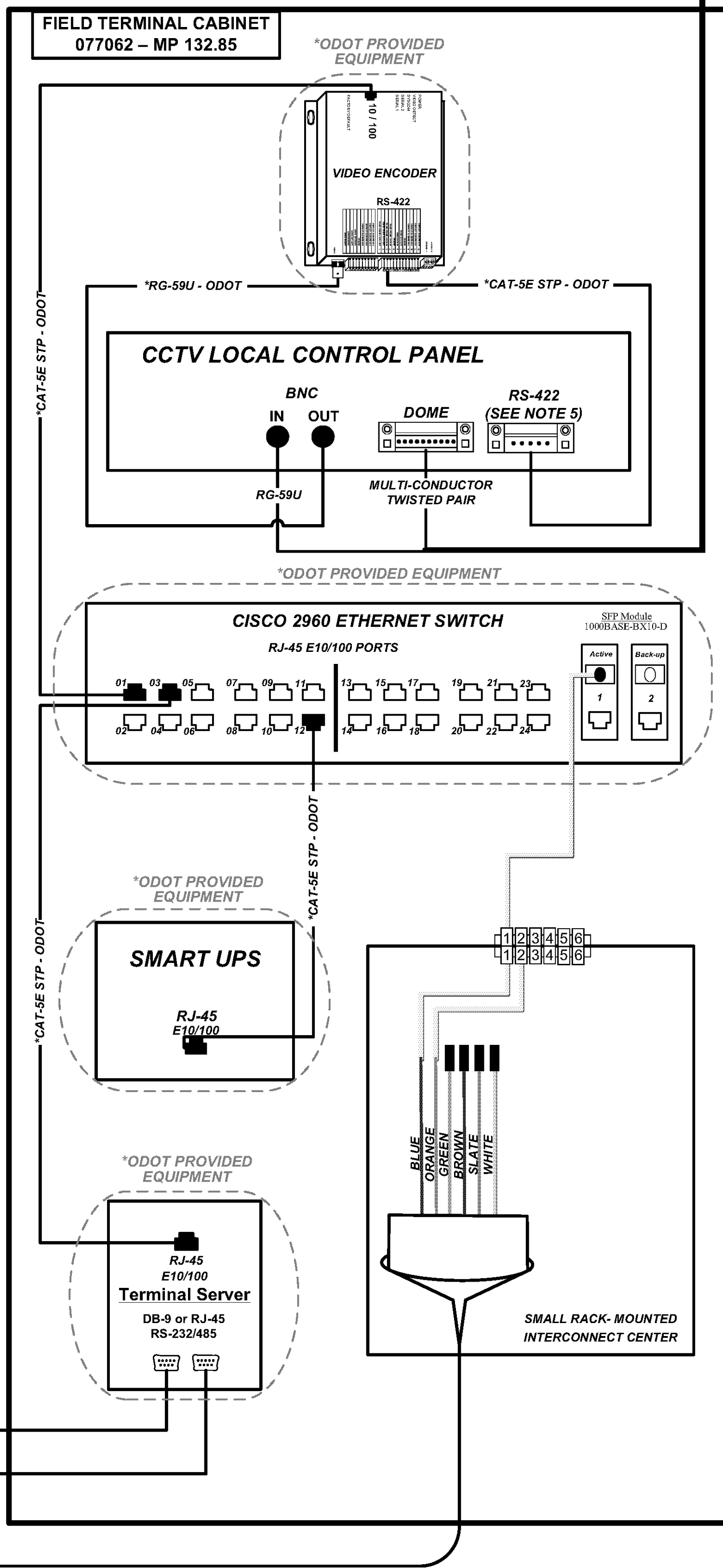
144-FIBER TRUNK CABLE

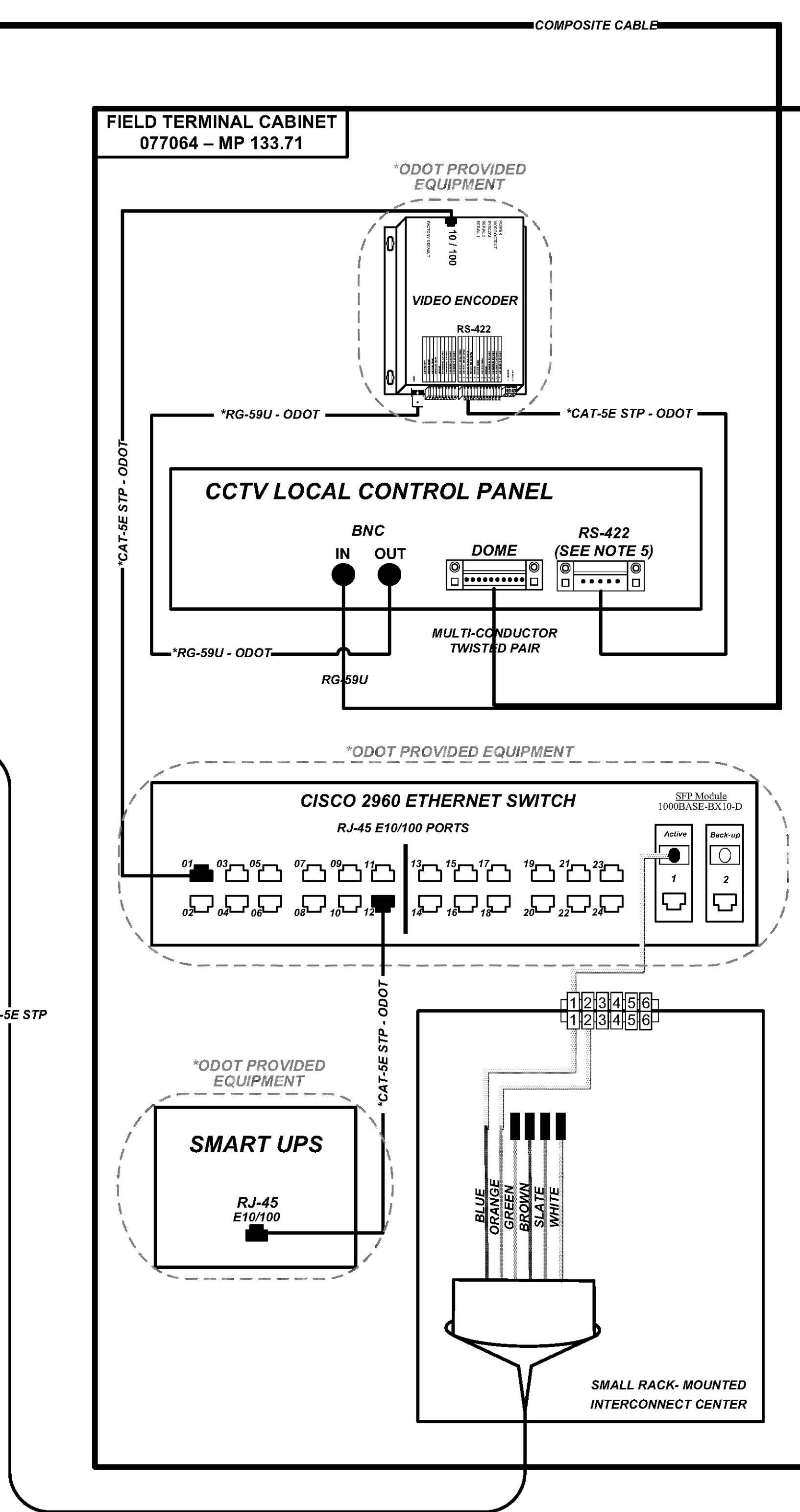
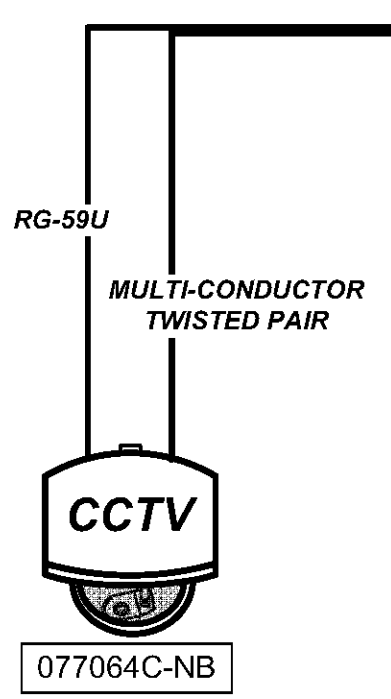
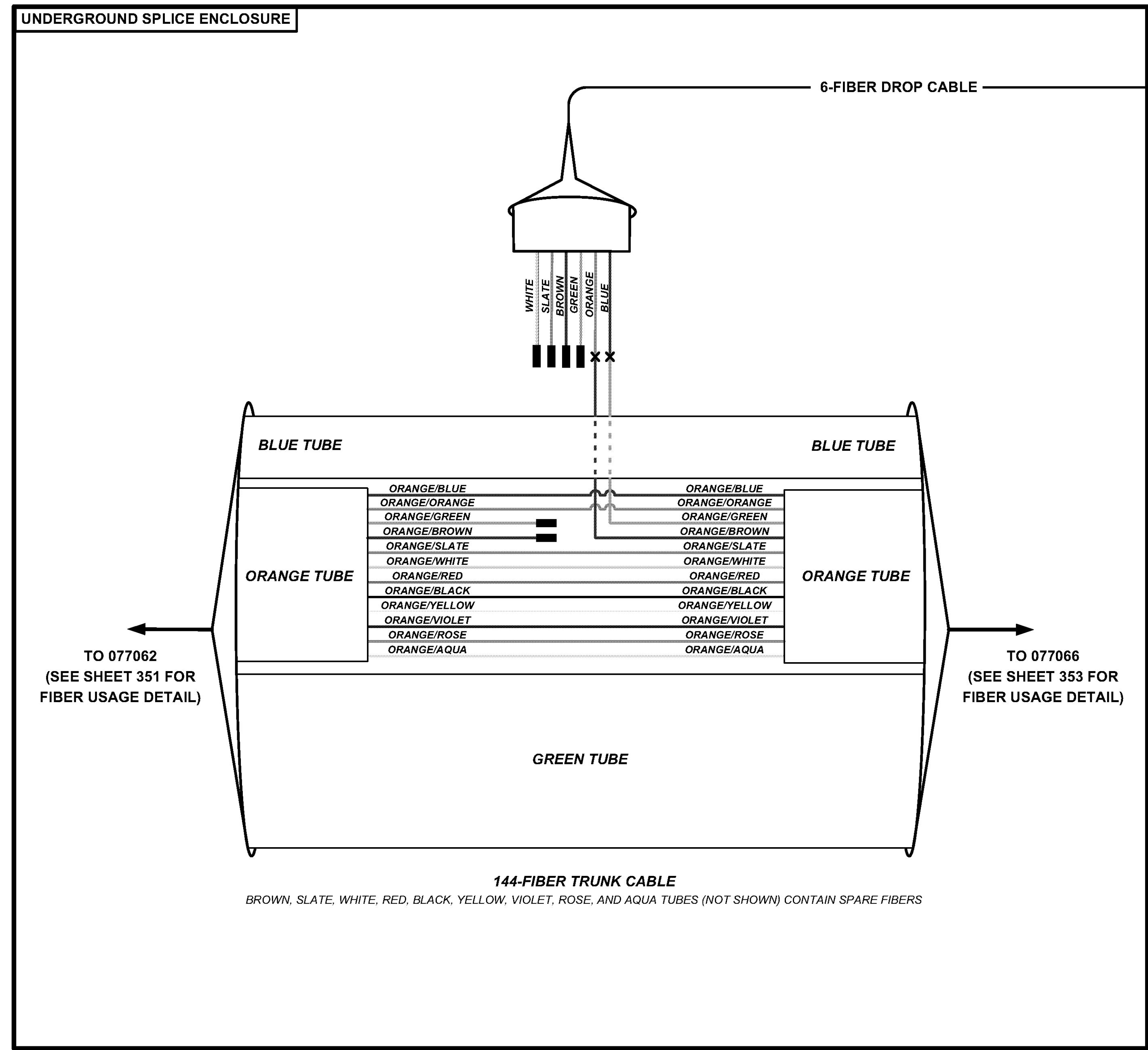
BROWN, SLATE, WHITE, RED, BLACK, YELLOW, VIOLET, ROSE, AND AQUA TUBES (NOT SHOWN) CONTAIN SPARE FIBERS

### KEY

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DEVICE NUMBER FOLLOWED BY 'D'
-  CCTV CAMERA  
DEVICE NUMBER FOLLOWED BY 'C'
-  DMS  
DYNAMIC MESSAGE SIGN  
DEVICE NUMBER FOLLOWED BY 'S'
-  EQUIPMENT CONNECTION  
FIBER OPTIC JUMPER
-  FIBER OPTIC PIGTAIL
-  EXISTING/PROPOSED  
BARE FIBER LEFT  
COILED IN SPLICE TRAY
-  EXISTING/PROPOSED  
FUSION SPLICE
-  CONNECTOR MODULE

- ### NOTES
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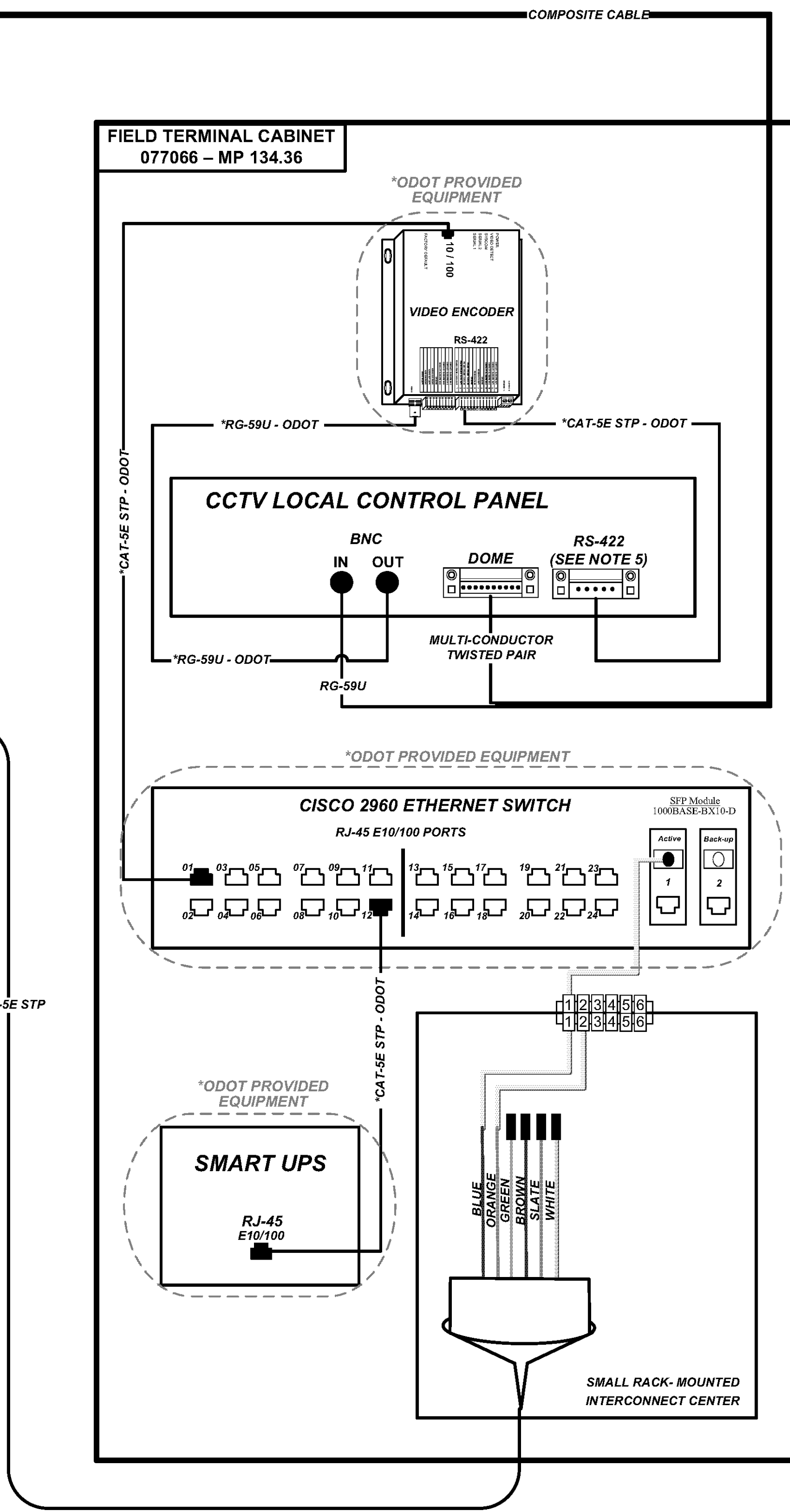
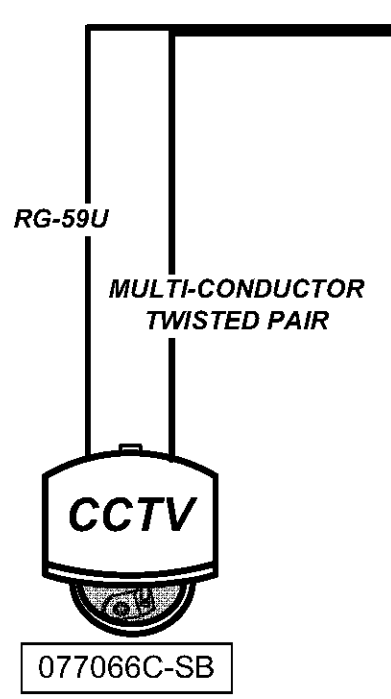
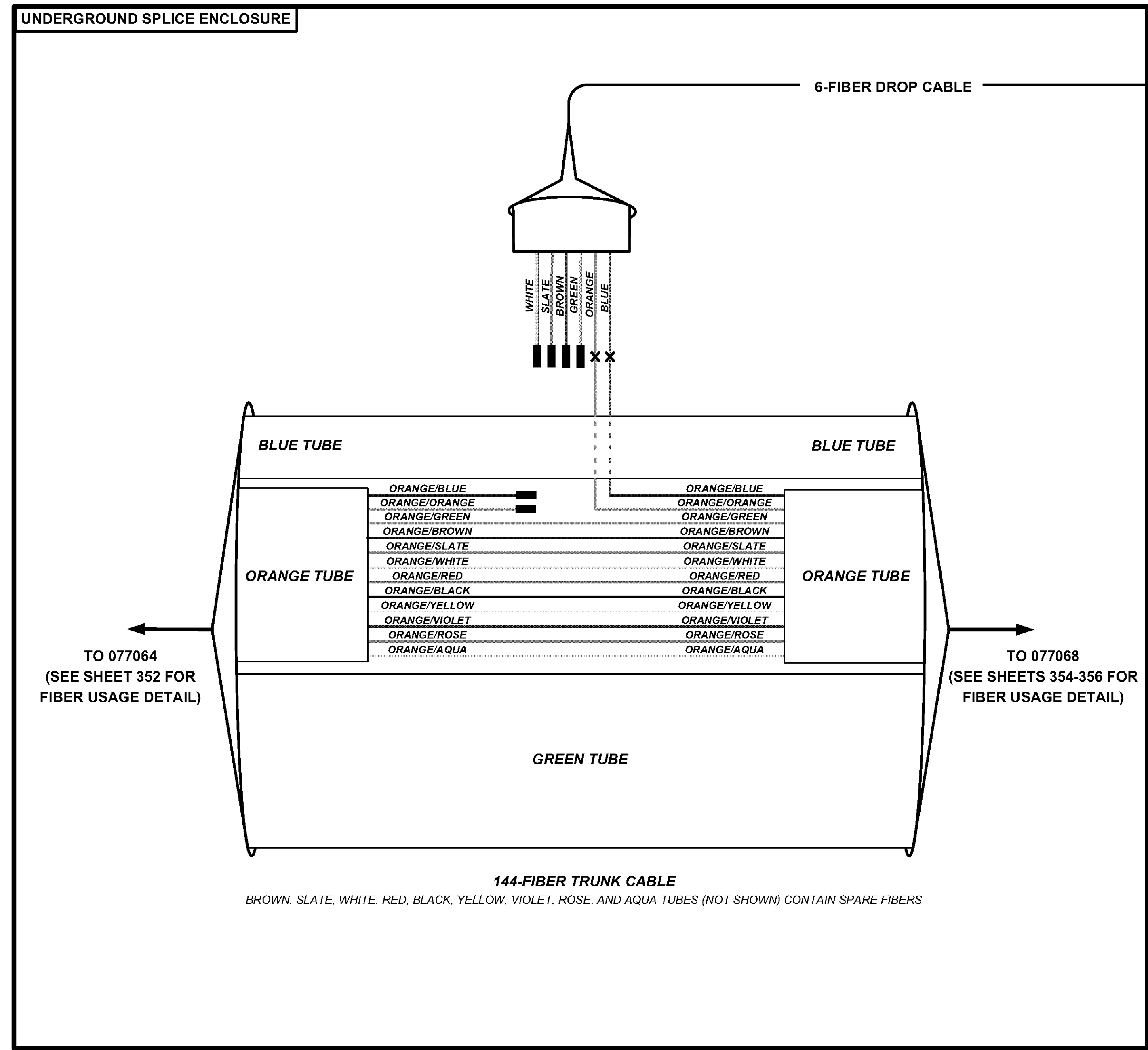




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- DMS  
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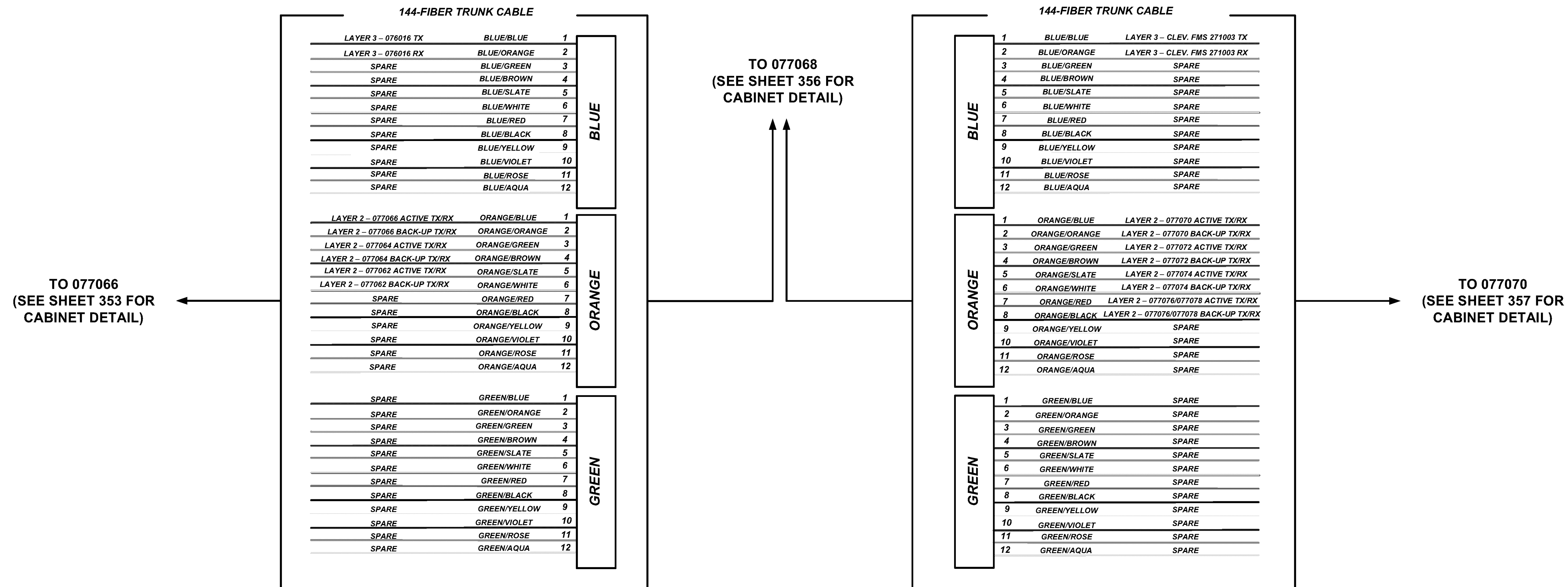


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**NOTES**

1. FIBERS NOT SHOWN SHALL ARE TO BE SPARE UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THIS INCLUDES FIBERS IN THE BROWN, SLATE, WHITE, RED, BLACK, YELLOW, VIOLET, ROSE, AND AQUA TUBES

**KEY**



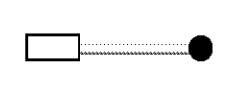
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DEVICE NUMBER FOLLOWED BY 'D'



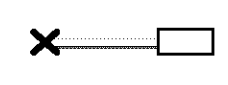
CCTV CAMERA  
DEVICE NUMBER FOLLOWED BY 'C'



DYNAMIC MESSAGE SIGN  
DEVICE NUMBER FOLLOWED BY 'S'



EQUIPMENT CONNECTION  
FIBER OPTIC JUMPER



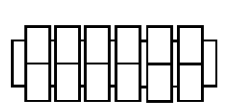
FIBER OPTIC PIGTAIL



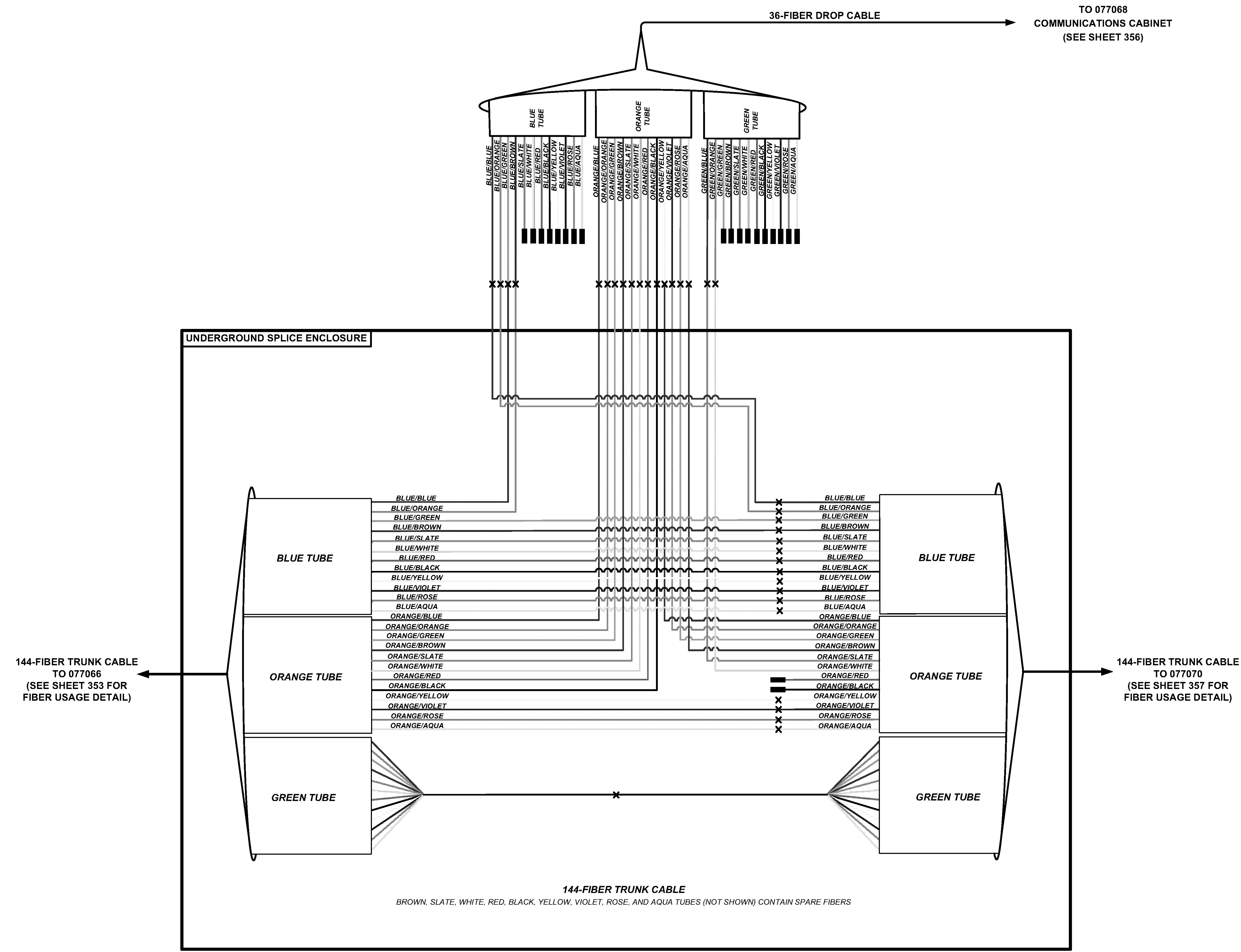
EXISTING/PROPOSED  
BARE FIBER LEFT  
COILED IN SPlice TRAY



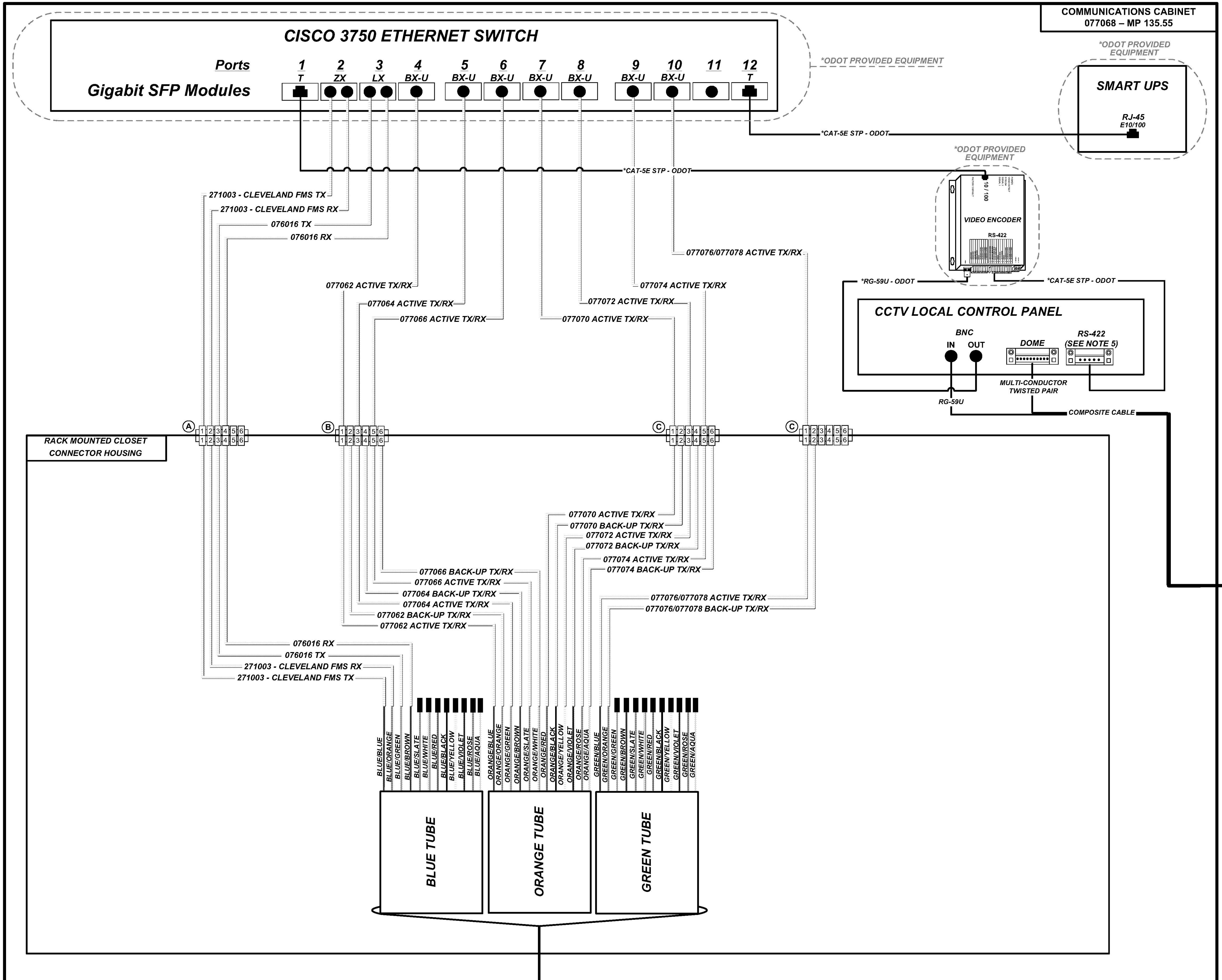
EXISTING/PROPOSED  
FUSION SPLICE



CONNECTOR MODULE



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COMMUNICATIONS CABINET  
077068 - MP 135.55

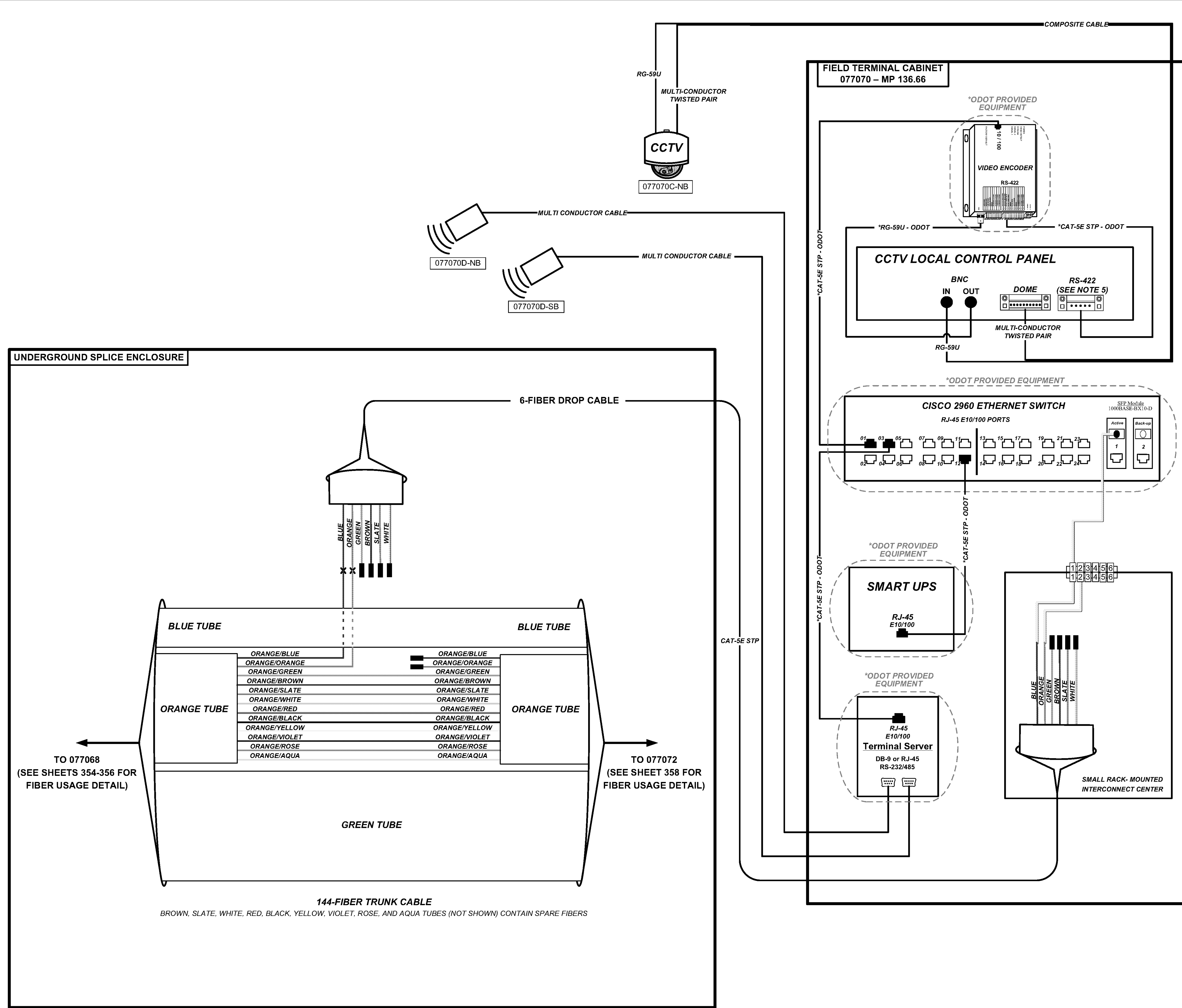
**KEY**

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DEVICE NUMBER FOLLOWED BY 'D'
- CCTV CAMERA  
DEVICE NUMBER FOLLOWED BY 'C'
- DMS  
DYNAMIC MESSAGE SIGN  
DEVICE NUMBER FOLLOWED BY 'S'
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- EXISTING/PROPOSED BARE FIBER LEFT COILED IN SPLICE TRAY
- EXISTING/PROPOSED FUSION SPLICE
- CONNECTOR MODULE




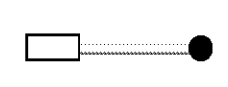
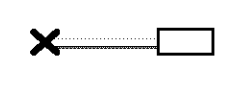


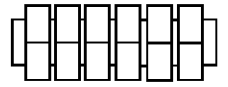
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FIBER ASSIGNMENT DETAIL DRAWING WITH ACTUAL FIBER USAGE SHOWN  
COMMUNICATIONS CABINET 077068

STA-SUM ITS



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DEVICE NUMBER FOLLOWED BY 'C'
-  DMS  
DYNAMIC MESSAGE SIGN  
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144-FIBER TRUNK CABLE  
BROWN, SLATE, WHITE, RED, BLACK, YELLOW, VIOLET, ROSE, AND AQUA TUBES (NOT SHOWN) CONTAIN SPARE FIBERS

**UNDERGROUND SPLICE ENCLOSURE**

**FIELD TERMINAL CABINET  
077070 - MP 136.66**

\*ODOT PROVIDED EQUIPMENT

\*RG-59U - ODOT \*CAT-5E STP - ODOT

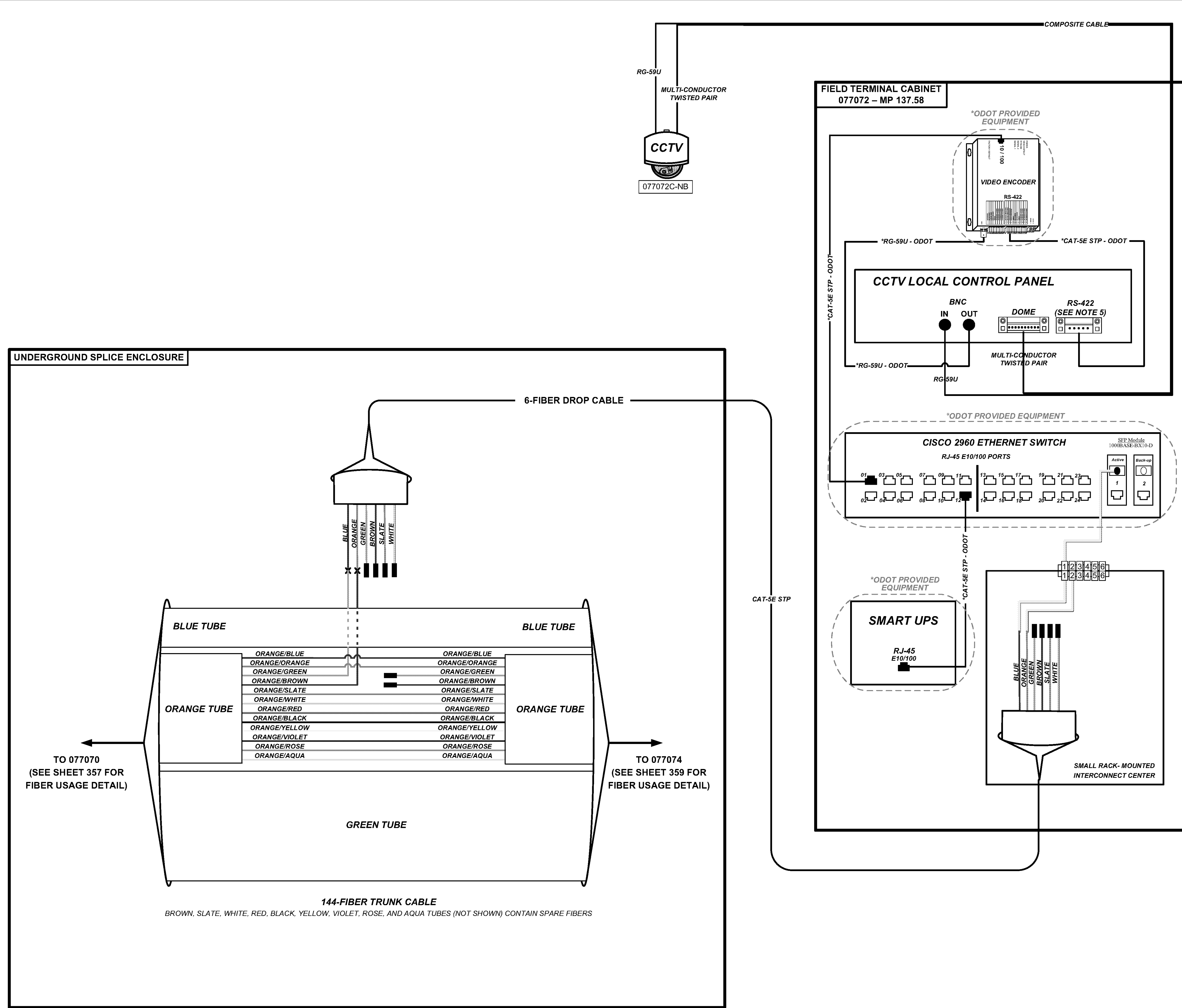
\*ODOT PROVIDED EQUIPMENT

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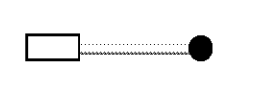
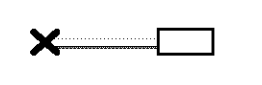


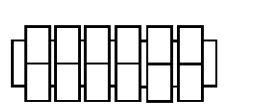
\*ODOT PROVIDED EQUIPMENT

TO 077068  
(SEE SHEETS 354-356 FOR  
FIBER USAGE DETAIL)

TO 077072  
(SEE SHEET 358 FOR  
FIBER USAGE DETAIL)

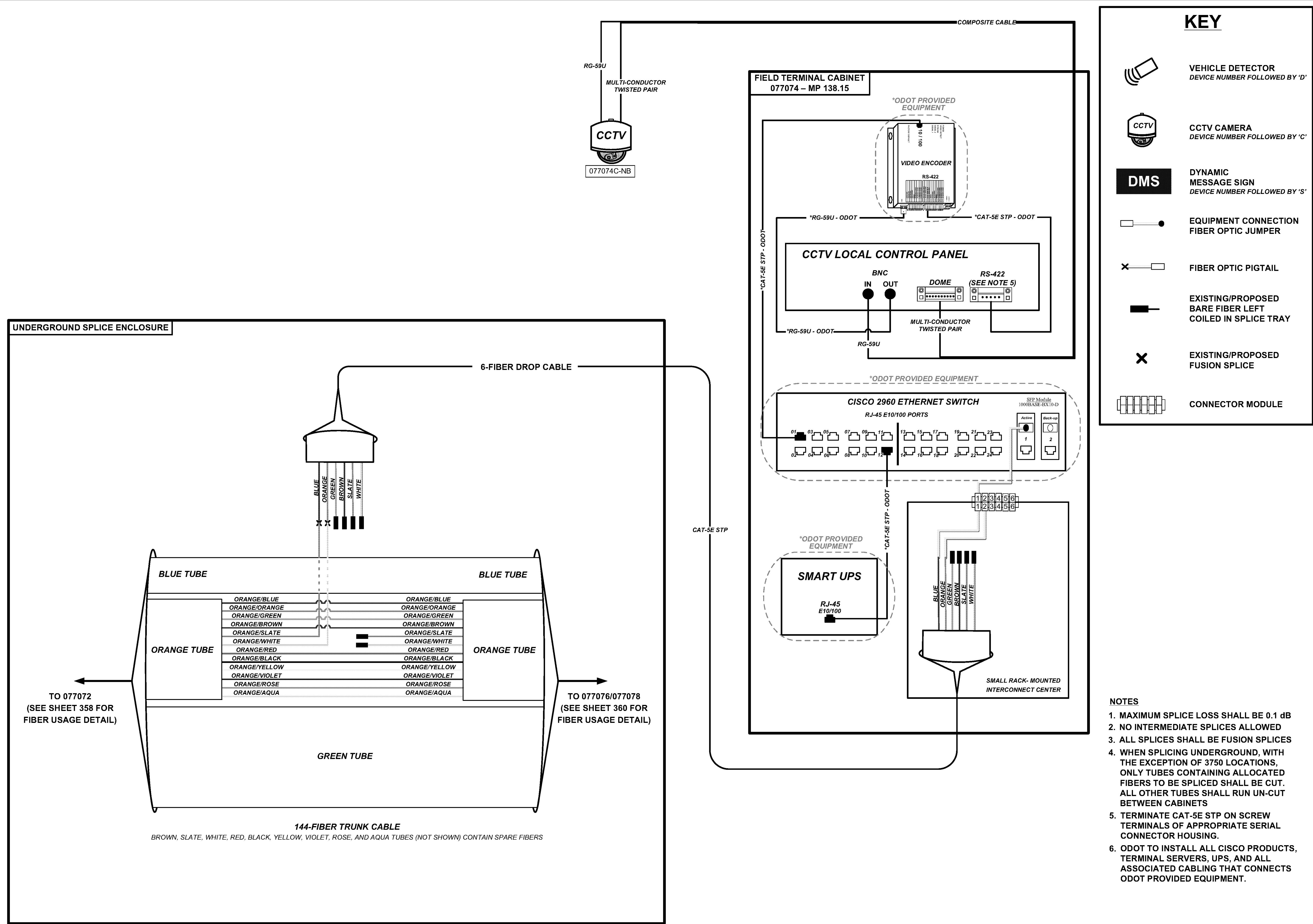


**KEY**





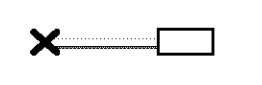


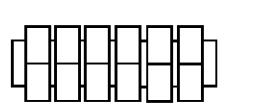
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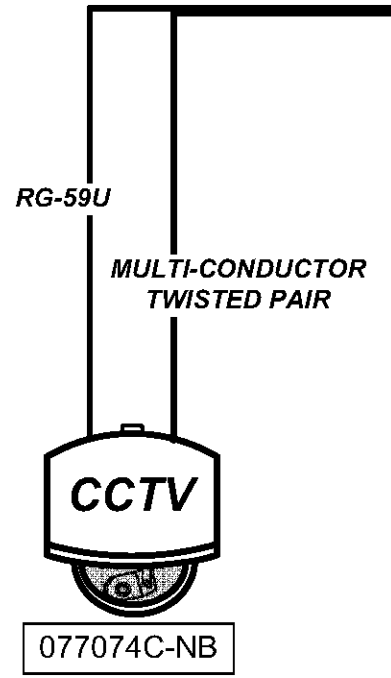




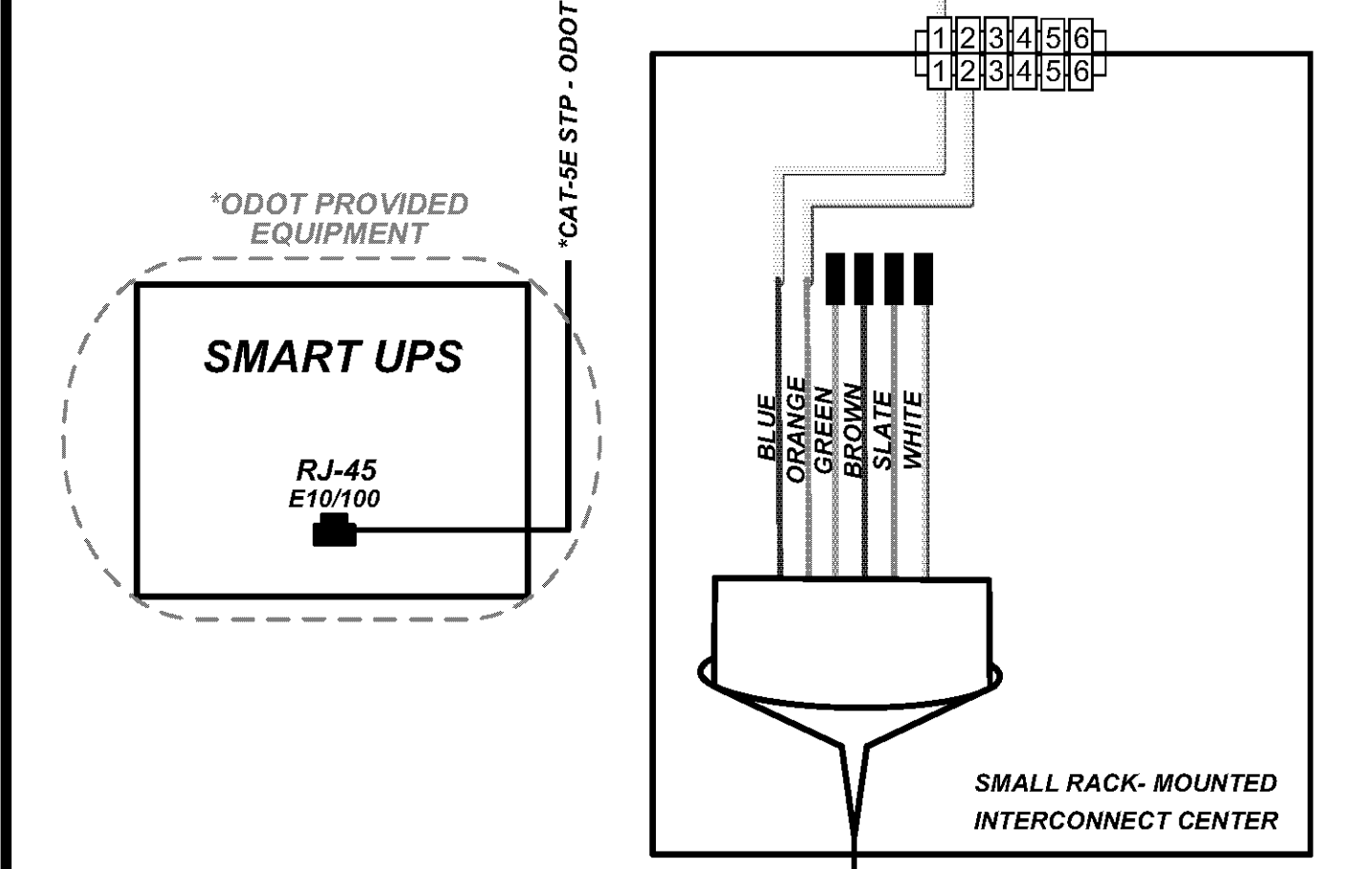
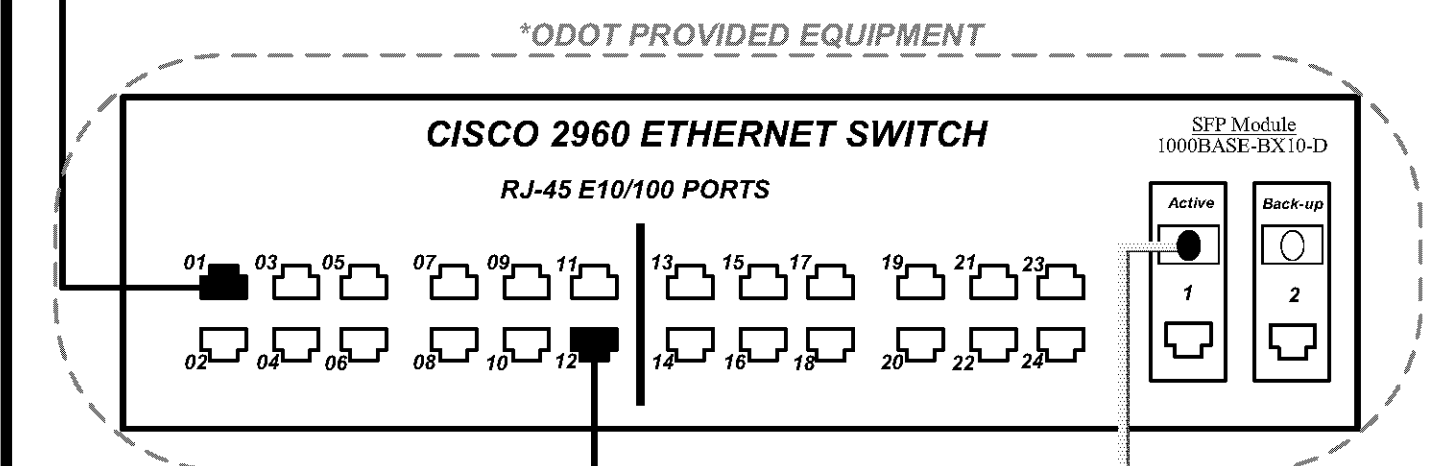
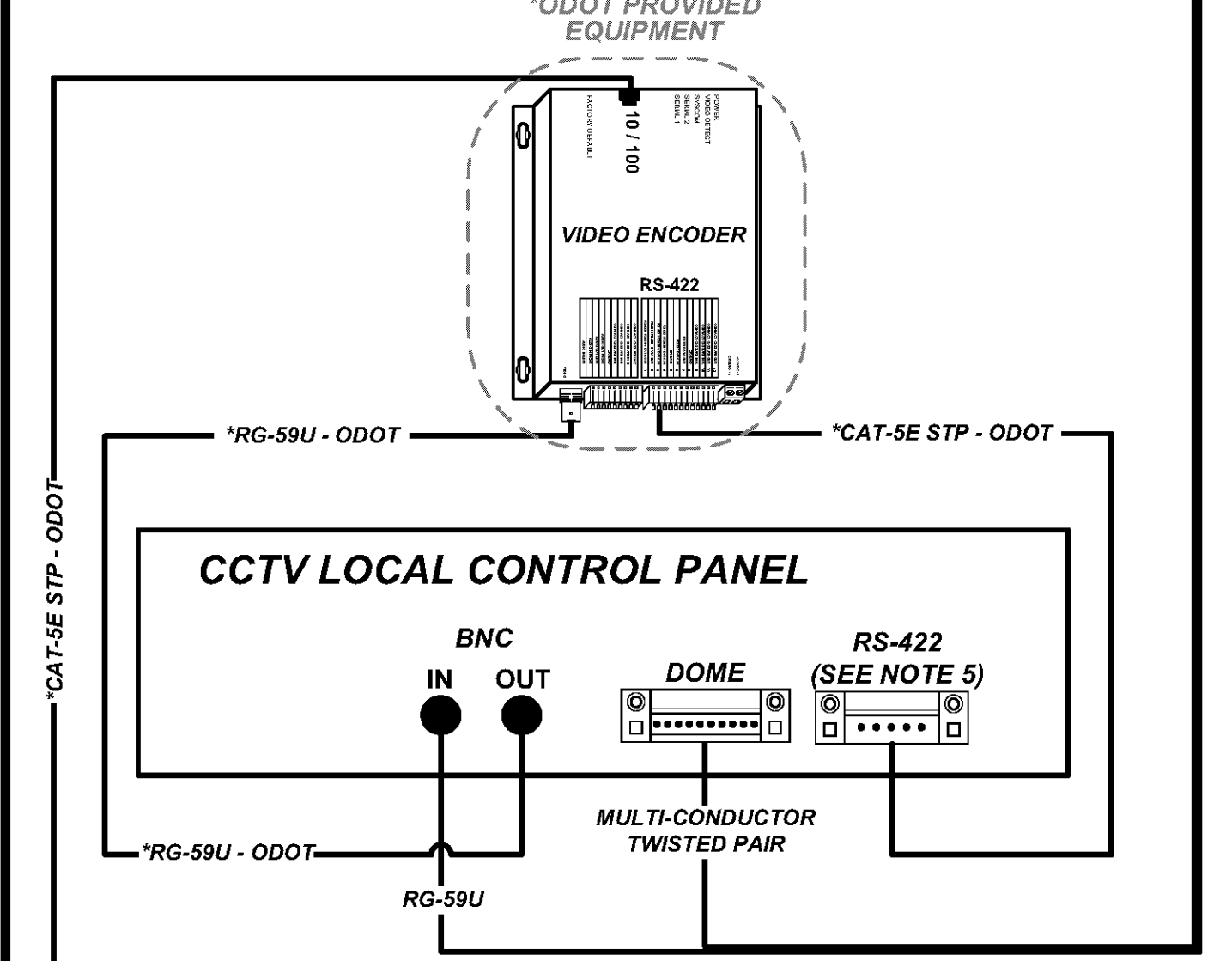
**KEY**

-  VEHICLE DETECTOR  
DEVICE NUMBER FOLLOWED BY 'D'
-  CCTV CAMERA  
DEVICE NUMBER FOLLOWED BY 'C'
-  DMS  
DYNAMIC MESSAGE SIGN  
DEVICE NUMBER FOLLOWED BY 'S'
-  EQUIPMENT CONNECTION  
FIBER OPTIC JUMPER
-  FIBER OPTIC PIGTAIL
-  EXISTING/PROPOSED  
BARE FIBER LEFT  
COILED IN SPLICE TRAY
-  EXISTING/PROPOSED  
FUSION SPLICE
-  CONNECTOR MODULE

- NOTES**
1. MAXIMUM SPLICE LOSS SHALL BE 0.1 dB
  2. NO INTERMEDIATE SPLICES ALLOWED
  3. ALL SPLICES SHALL BE FUSION SPLICES
  4. WHEN SPLICING UNDERGROUND, WITH THE EXCEPTION OF 3750 LOCATIONS, ONLY TUBES CONTAINING ALLOCATED FIBERS TO BE SPLICED SHALL BE CUT. ALL OTHER TUBES SHALL RUN UN-CUT BETWEEN CABINETS
  5. TERMINATE CAT-5E STP ON SCREW TERMINALS OF APPROPRIATE SERIAL CONNECTOR HOUSING.
  6. ODOT TO INSTALL ALL CISCO PRODUCTS, TERMINAL SERVERS, UPS, AND ALL ASSOCIATED CABLING THAT CONNECTS ODOT PROVIDED EQUIPMENT.



FIELD TERMINAL CABINET  
077074 - MP 138.15

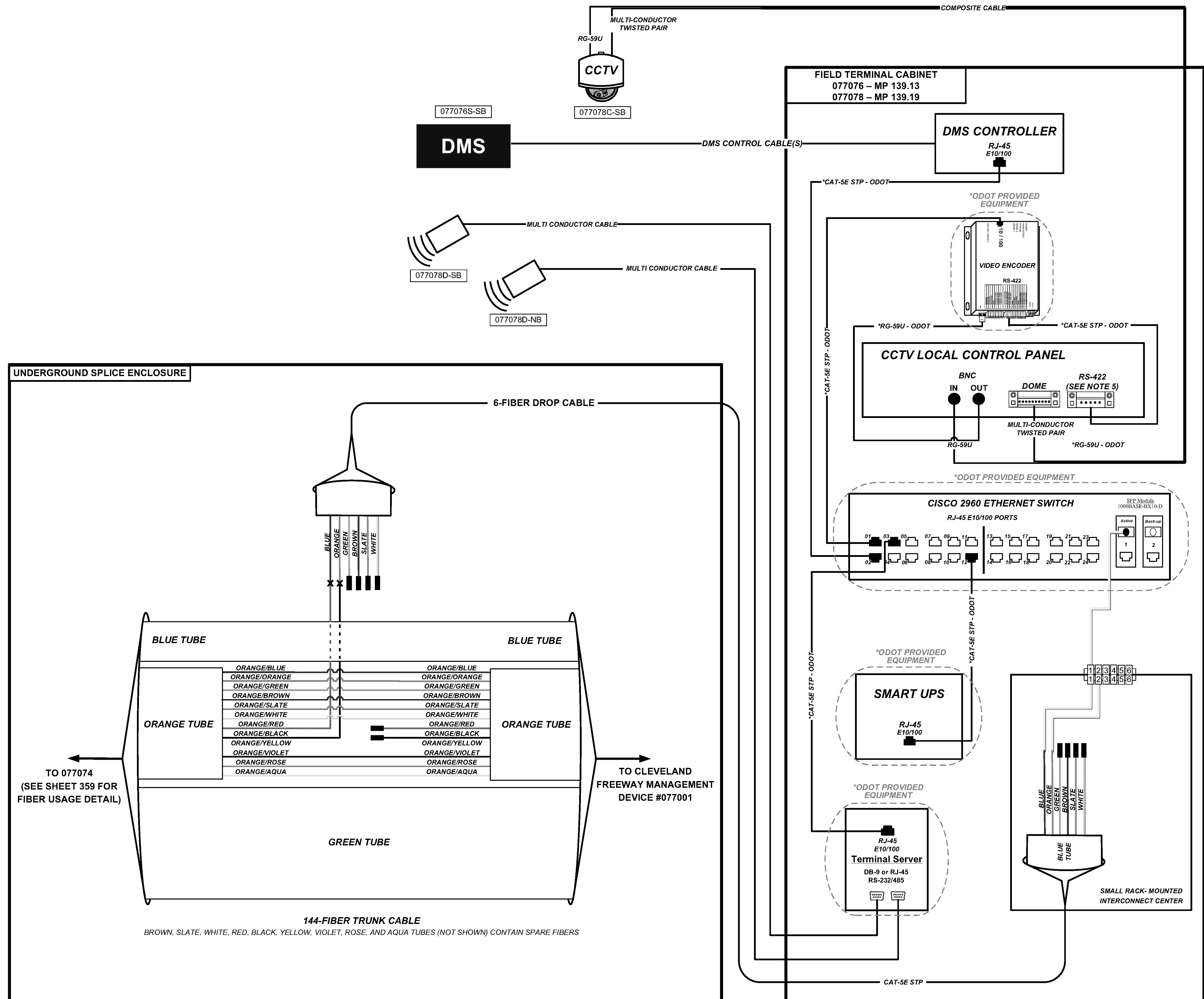


144-FIBER TRUNK CABLE  
BROWN, SLATE, WHITE, RED, BLACK, YELLOW, VIOLET, ROSE, AND AQUA TUBES (NOT SHOWN) CONTAIN SPARE FIBERS

UNDERGROUND SPLICE ENCLOSURE

TO 077072  
(SEE SHEET 358 FOR  
FIBER USAGE DETAIL)

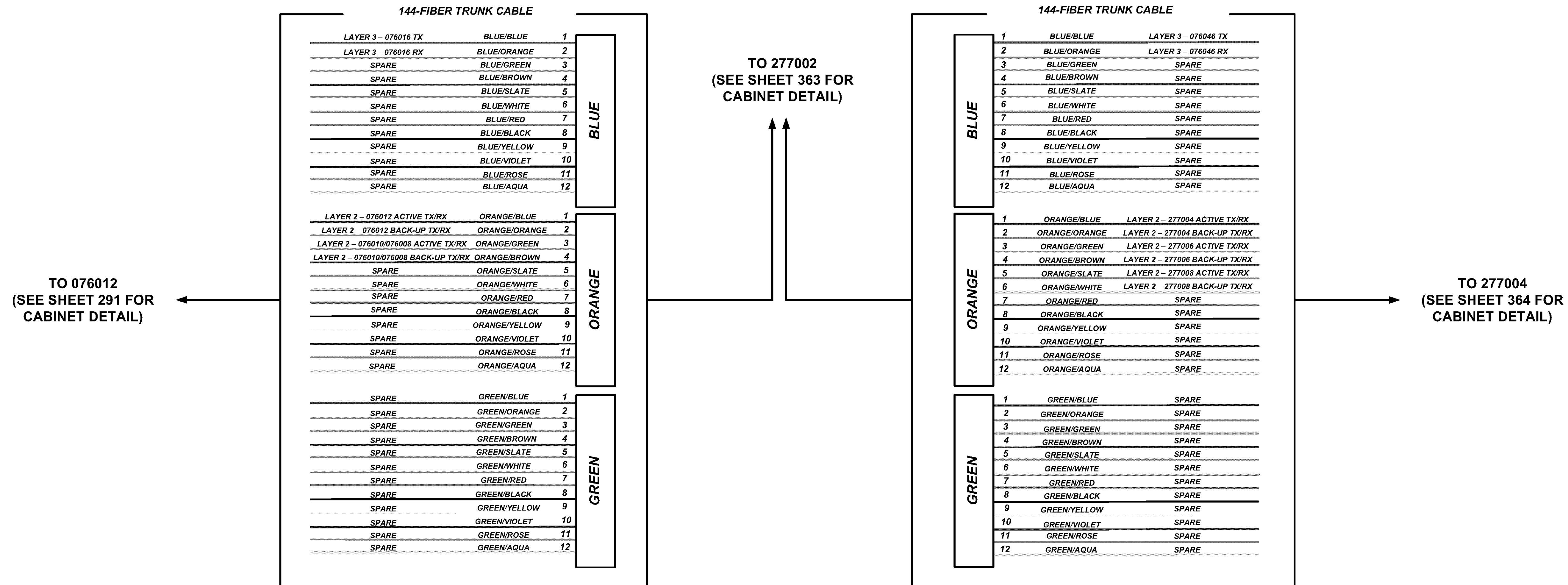
TO 077076/077078  
(SEE SHEET 360 FOR  
FIBER USAGE DETAIL)



### KEY

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DEVICE NUMBER FOLLOWED BY 'D'
- CCTV CAMERA  
DEVICE NUMBER FOLLOWED BY 'C'
- DMS  
DYNAMIC MESSAGE SIGN  
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BARE FIBER LEFT  
COILED IN SPLICE TRAY
- EXISTING/PROPOSED  
FUSION SPLICE
- CONNECTOR MODULE




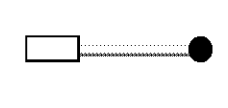
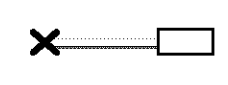

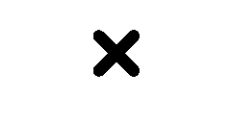
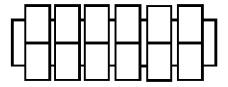
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  6. ODOT TO INSTALL ALL CISCO PRODUCTS, TERMINAL SERVERS, UPS, AND ALL ASSOCIATED CABLING THAT CONNECTS ODOT PROVIDED EQUIPMENT.



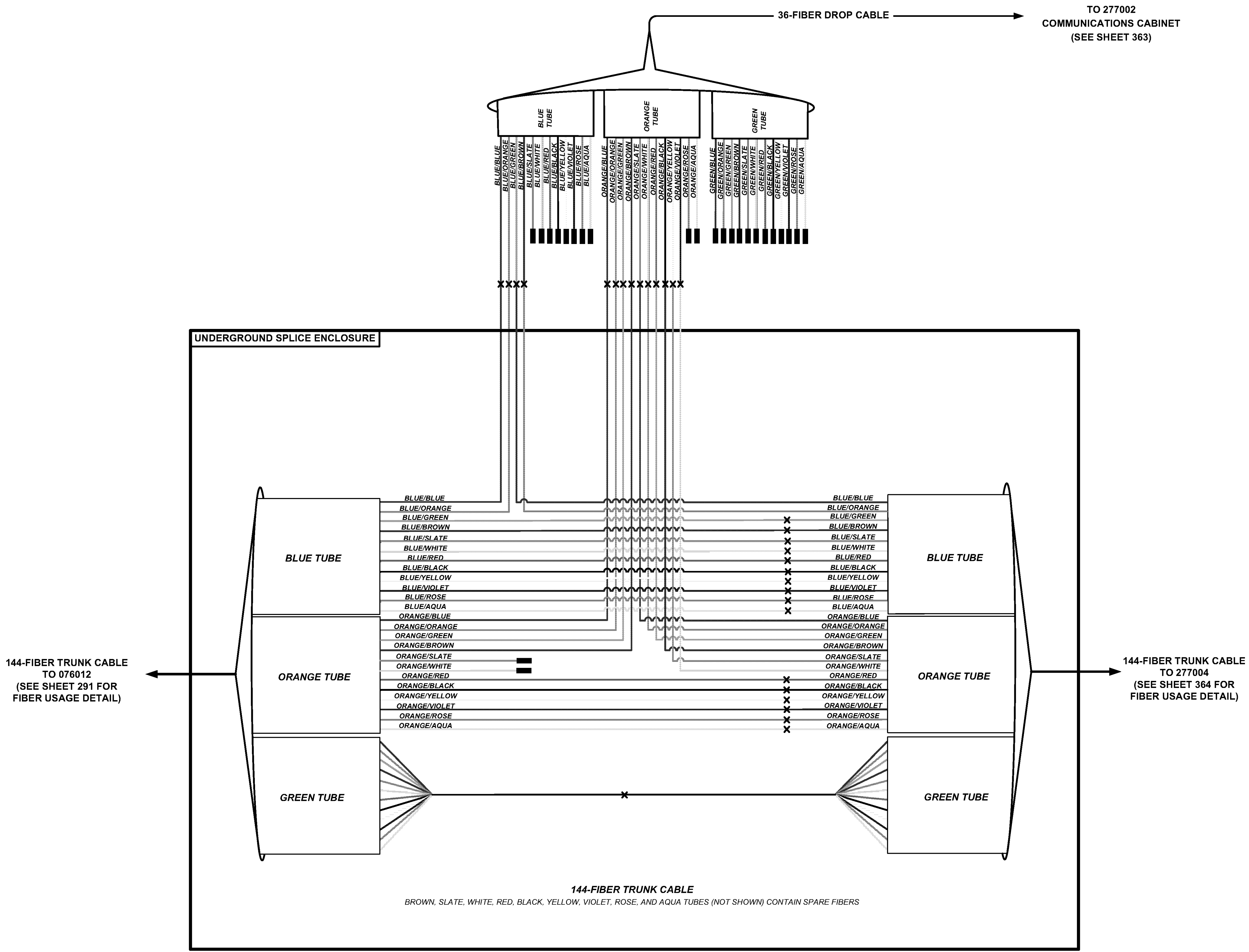
**NOTES**

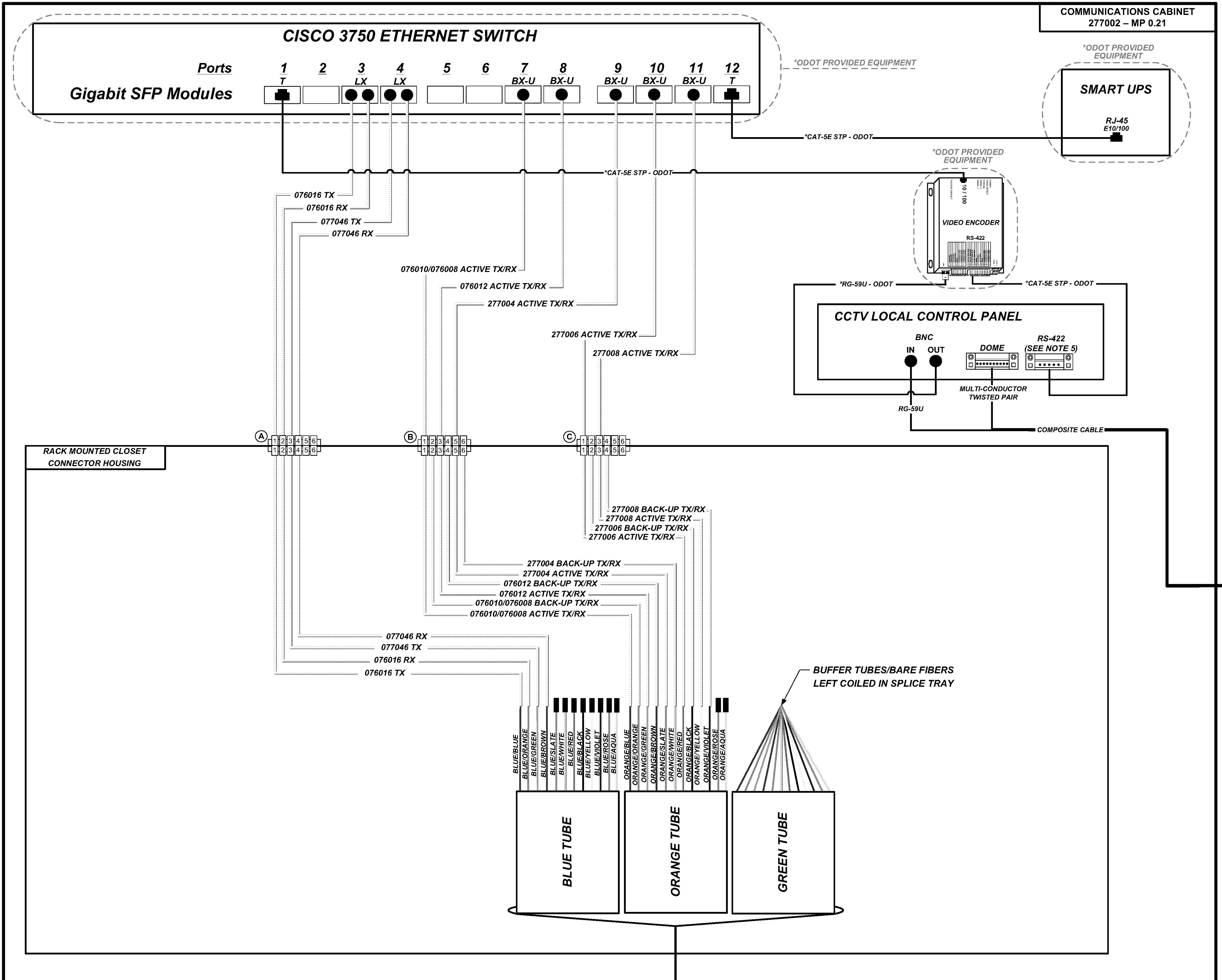
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-  CCTV CAMERA  
DEVICE NUMBER FOLLOWED BY 'C'
-  DMS  
DYNAMIC MESSAGE SIGN  
DEVICE NUMBER FOLLOWED BY 'S'
-  EQUIPMENT CONNECTION  
FIBER OPTIC JUMPER
-  FIBER OPTIC PIGTAIL
-  EXISTING/PROPOSED  
BARE FIBER LEFT  
COILED IN SPLICE TRAY
-  EXISTING/PROPOSED  
FUSION SPLICE
-  CONNECTOR MODULE

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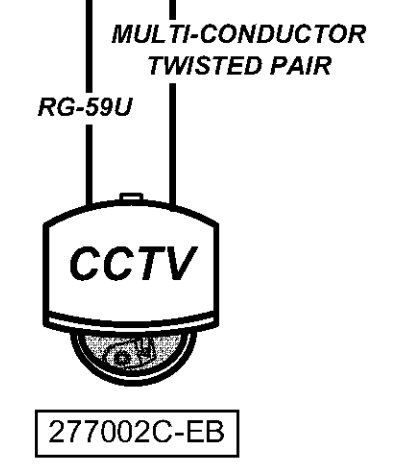




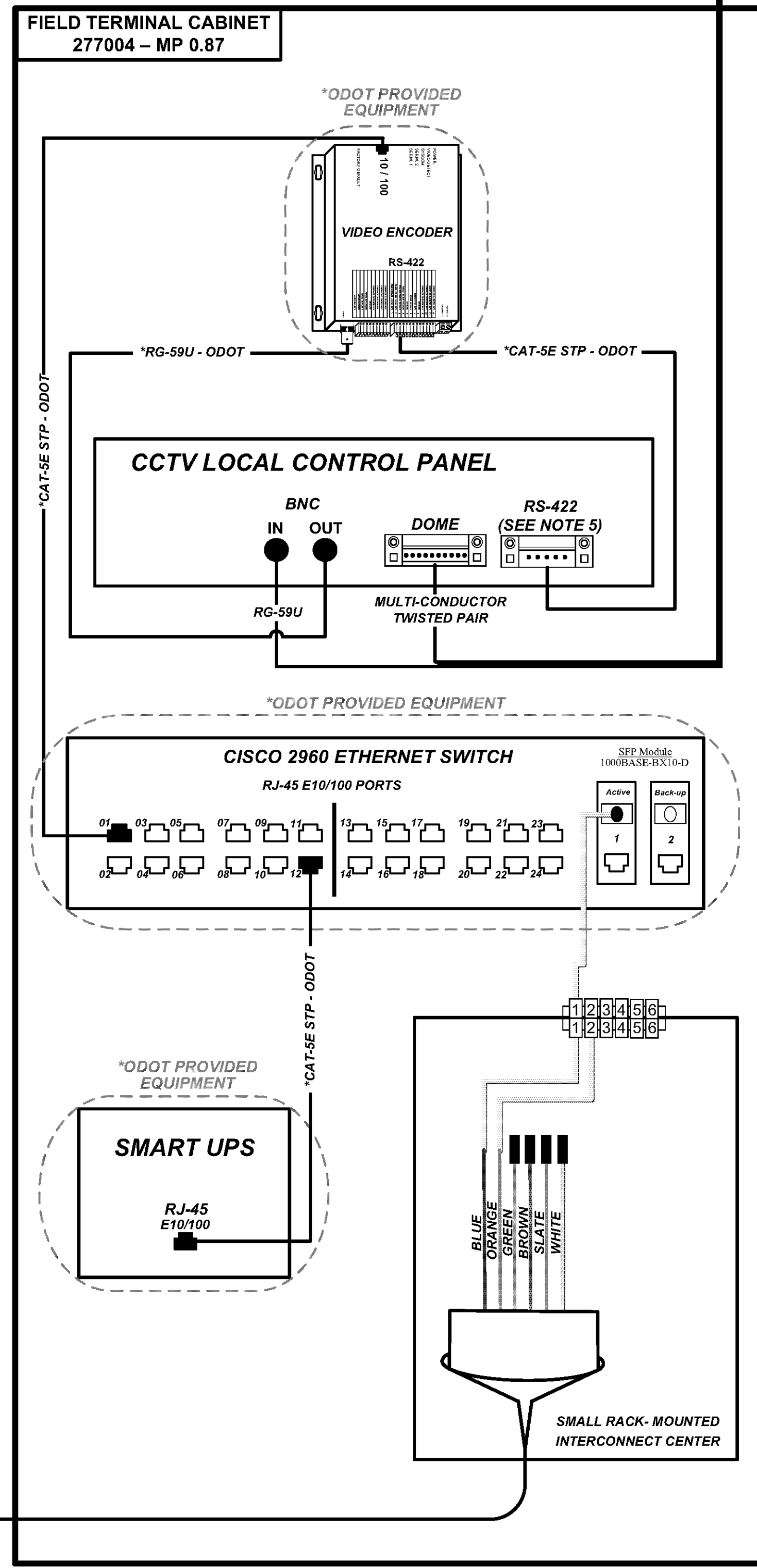
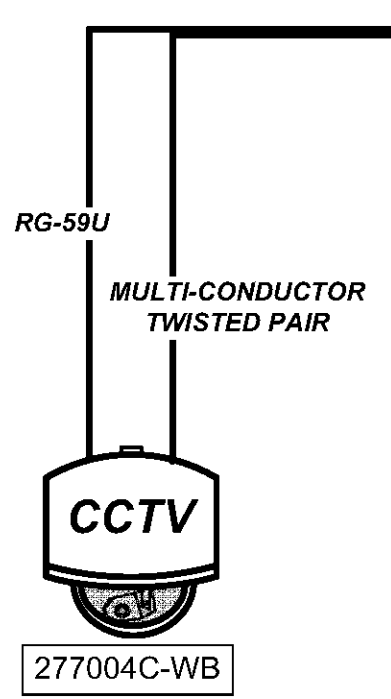
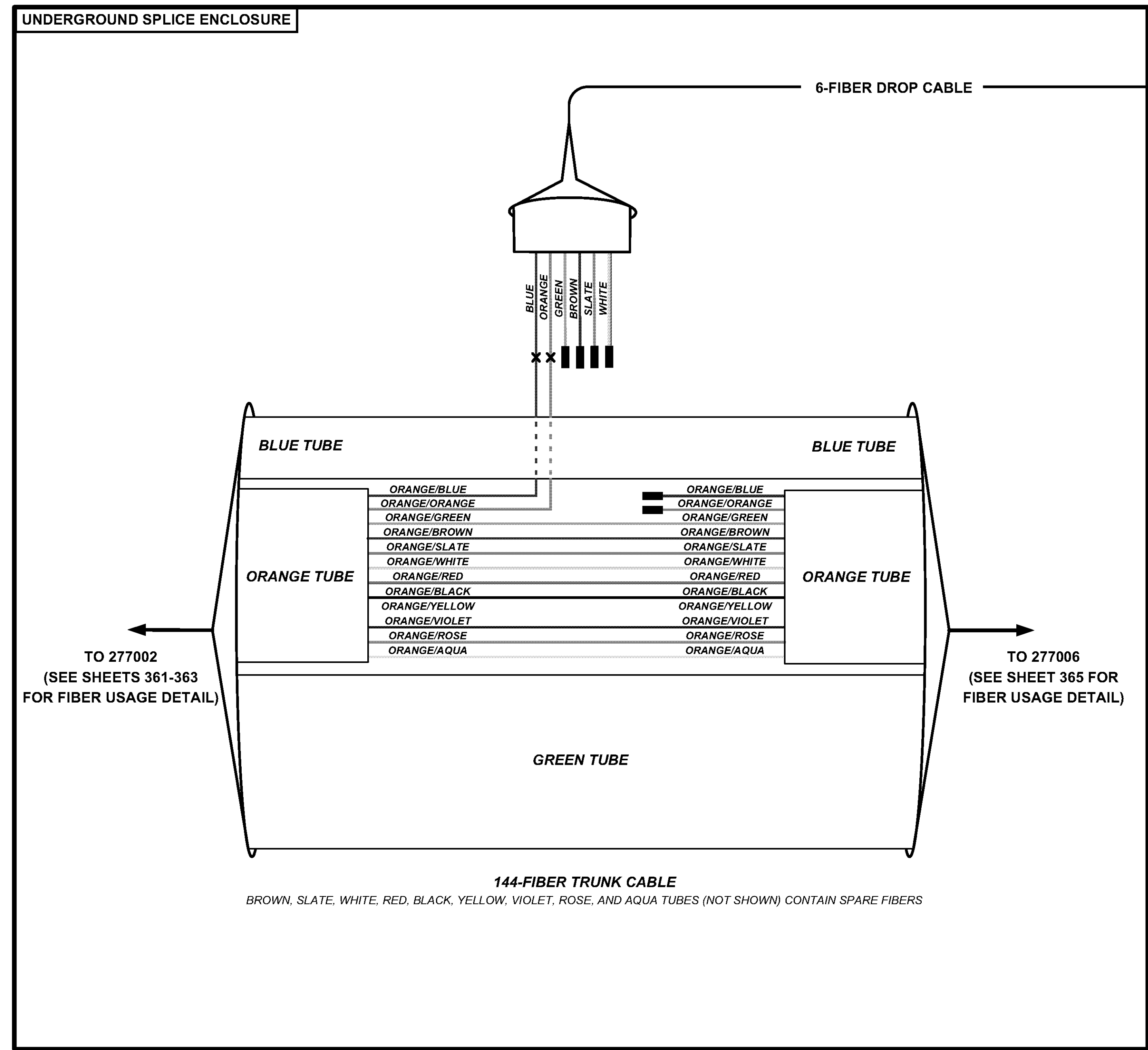
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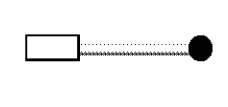
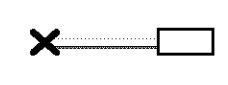


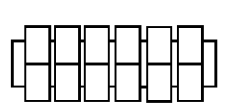


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DEVICE NUMBER FOLLOWED BY 'D'
- CCTV CAMERA  
DEVICE NUMBER FOLLOWED BY 'C'
- DMS  
DYNAMIC MESSAGE SIGN  
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- EXISTING/PROPOSED BARE FIBER LEFT COILED IN SPLICE TRAY
- EXISTING/PROPOSED FUSION SPLICE
- CONNECTOR MODULE

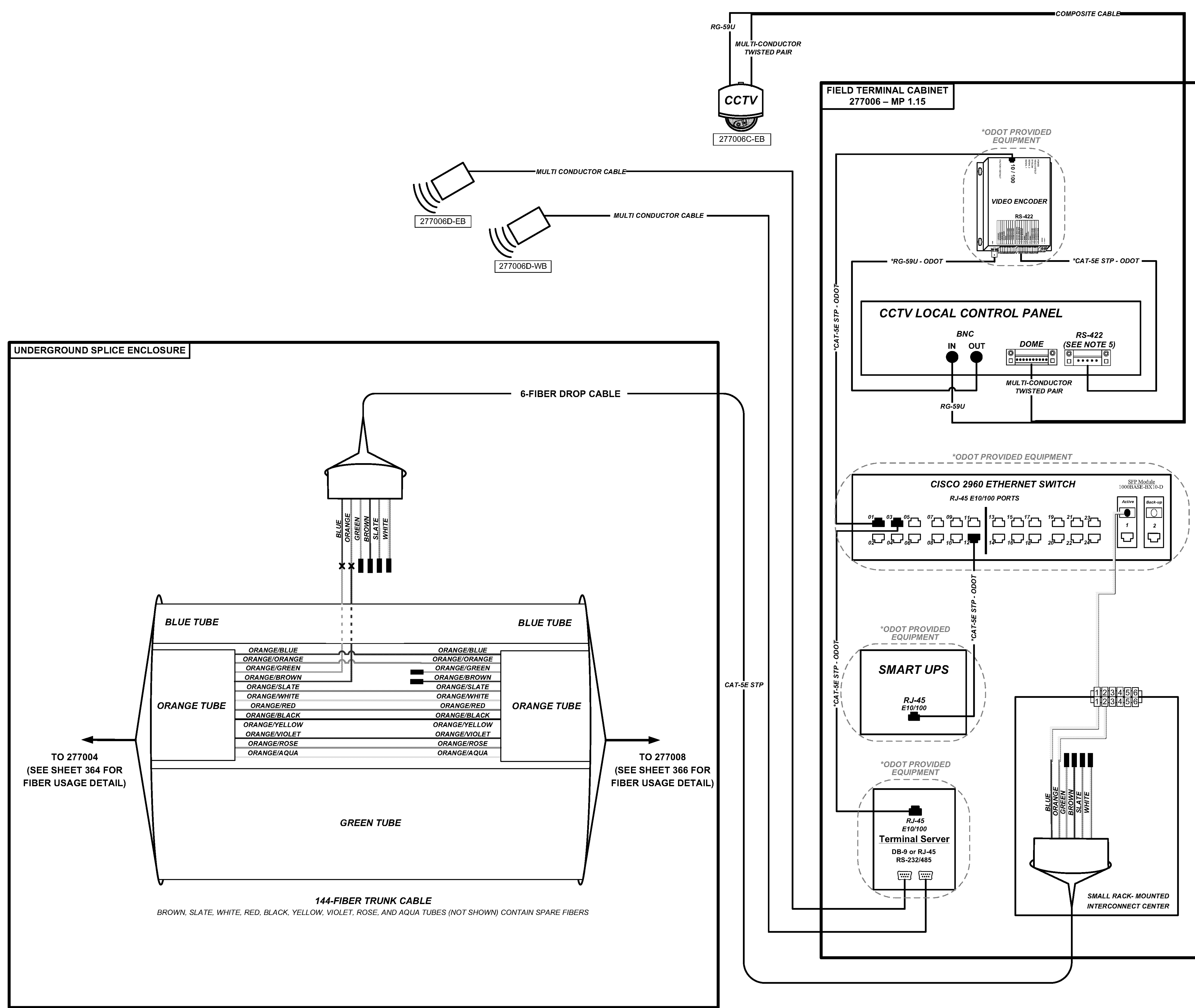
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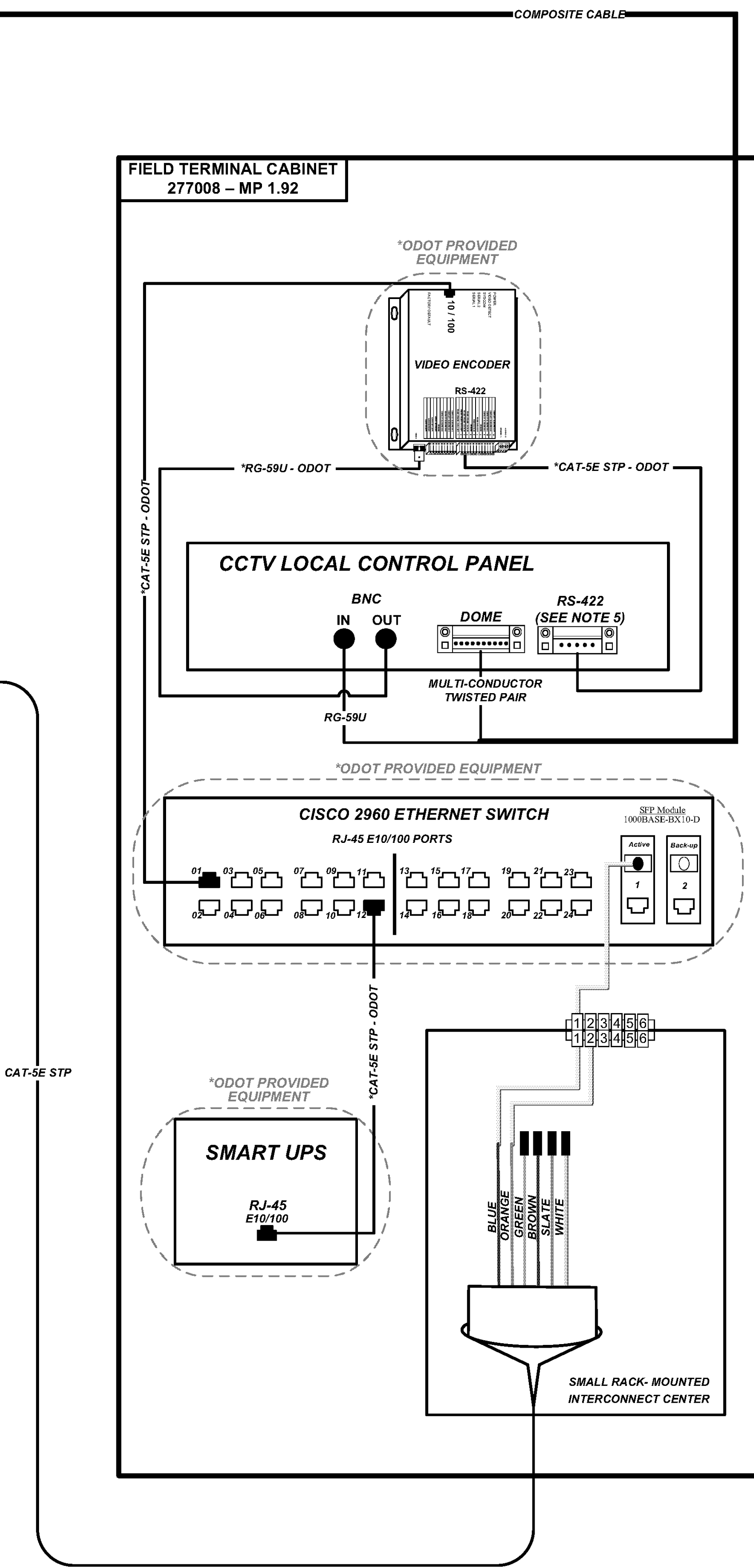
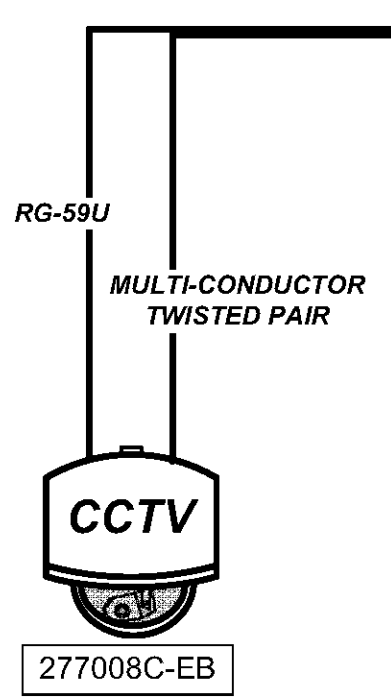
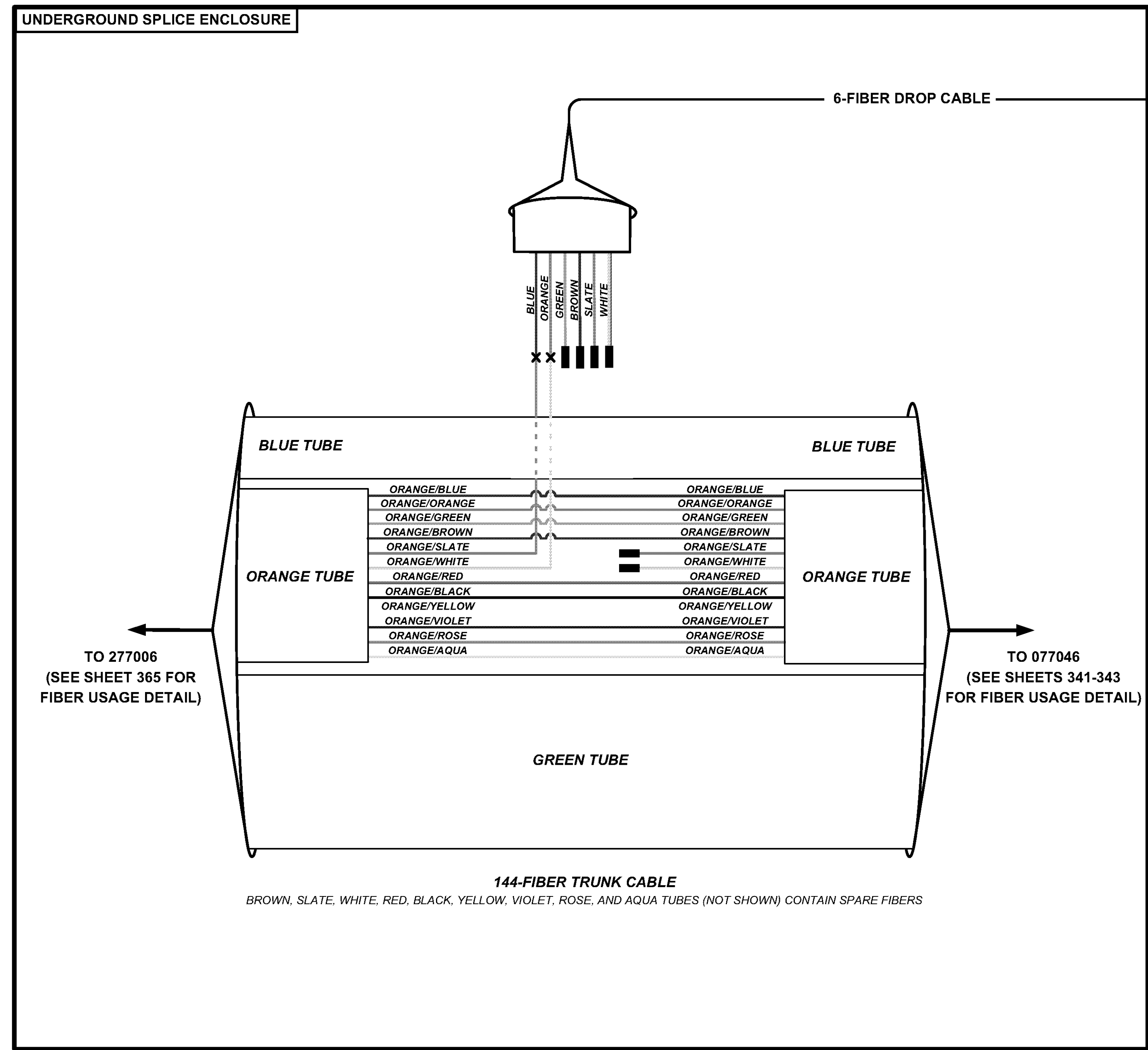
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**144-FIBER TRUNK CABLE**

LAYER 3 - 008019 TX	BLUE/BLUE	1
LAYER 3 - 008019 RX	BLUE/ORANGE	2
SPARE	BLUE/GREEN	3
SPARE	BLUE/BROWN	4
SPARE	BLUE/SLATE	5
SPARE	BLUE/WHITE	6
SPARE	BLUE/RED	7
SPARE	BLUE/BLACK	8
SPARE	BLUE/YELLOW	9
SPARE	BLUE/VIOLET	10
SPARE	BLUE/ROSE	11
SPARE	BLUE/AQUA	12
LAYER 2 - 008004 ACTIVE TX/RX	ORANGE/BLUE	1
LAYER 2 - 008004 BACK-UP TX/RX	ORANGE/ORANGE	2
LAYER 2 - 008006 ACTIVE TX/RX	ORANGE/GREEN	3
LAYER 2 - 008006 BACK-UP TX/RX	ORANGE/BROWN	4
LAYER 2 - 008008 ACTIVE TX/RX	ORANGE/SLATE	5
LAYER 2 - 008008 BACK-UP TX/RX	ORANGE/WHITE	6
SPARE	ORANGE/RED	7
SPARE	ORANGE/BLACK	8
SPARE	ORANGE/YELLOW	9
SPARE	ORANGE/VIOLET	10
SPARE	ORANGE/ROSE	11
SPARE	ORANGE/AQUA	12

TO 008004  
(SEE SHEET 370 FOR  
CABINET DETAIL)

**144-FIBER TRUNK CABLE**

LAYER 3 - 076016 TX	BLUE/BLUE	1
LAYER 3 - 076016 RX	BLUE/ORANGE	2
SPARE	BLUE/GREEN	3
SPARE	BLUE/BROWN	4
SPARE	BLUE/SLATE	5
SPARE	BLUE/WHITE	6
SPARE	BLUE/RED	7
SPARE	BLUE/BLACK	8
SPARE	BLUE/YELLOW	9
SPARE	BLUE/VIOLET	10
SPARE	BLUE/ROSE	11
SPARE	BLUE/AQUA	12
LAYER 2 - 076020 ACTIVE TX/RX	ORANGE/BLUE	1
LAYER 2 - 076020 BACK-UP TX/RX	ORANGE/ORANGE	2
SPARE	ORANGE/GREEN	3
SPARE	ORANGE/BROWN	4
SPARE	ORANGE/SLATE	5
SPARE	ORANGE/WHITE	6
SPARE	ORANGE/RED	7
SPARE	ORANGE/BLACK	8
SPARE	ORANGE/YELLOW	9
SPARE	ORANGE/VIOLET	10
SPARE	ORANGE/ROSE	11
SPARE	ORANGE/AQUA	12

TO 076020  
(SEE SHEET 297 FOR  
CABINET DETAIL)

TO 008002  
(SEE SHEET 369 FOR  
CABINET DETAIL)

**144-FIBER TRUNK CABLE**

1	BLUE/BLUE	LAYER 3 - 076026 TX
2	BLUE/ORANGE	LAYER 3 - 076026 RX
3	BLUE/GREEN	SPARE
4	BLUE/BROWN	SPARE
5	BLUE/SLATE	SPARE
6	BLUE/WHITE	SPARE
7	BLUE/RED	SPARE
8	BLUE/BLACK	SPARE
9	BLUE/YELLOW	SPARE
10	BLUE/VIOLET	SPARE
11	BLUE/ROSE	SPARE
12	BLUE/AQUA	SPARE
1	ORANGE/BLUE	SPARE
2	ORANGE/ORANGE	SPARE
3	ORANGE/GREEN	SPARE
4	ORANGE/BROWN	SPARE
5	ORANGE/SLATE	SPARE
6	ORANGE/WHITE	SPARE
7	ORANGE/RED	SPARE
8	ORANGE/BLACK	SPARE
9	ORANGE/YELLOW	SPARE
10	ORANGE/VIOLET	SPARE
11	ORANGE/ROSE	SPARE
12	ORANGE/AQUA	SPARE

TO 076022  
(SEE SHEET 298 FOR  
CABINET DETAIL)

**144-FIBER TRUNK CABLE**

LAYER 3 - 077046 TX	BLUE/BLUE	1
LAYER 3 - 077046 RX	BLUE/ORANGE	2
SPARE	BLUE/GREEN	3
SPARE	BLUE/BROWN	4
SPARE	BLUE/SLATE	5
SPARE	BLUE/WHITE	6
SPARE	BLUE/RED	7
SPARE	BLUE/BLACK	8
SPARE	BLUE/YELLOW	9
SPARE	BLUE/VIOLET	10
SPARE	BLUE/ROSE	11
SPARE	BLUE/AQUA	12
SPARE	ORANGE/BLUE	1
SPARE	ORANGE/ORANGE	2
SPARE	ORANGE/GREEN	3
SPARE	ORANGE/BROWN	4
SPARE	ORANGE/SLATE	5
SPARE	ORANGE/WHITE	6
SPARE	ORANGE/RED	7
SPARE	ORANGE/BLACK	8
SPARE	ORANGE/YELLOW	9
SPARE	ORANGE/VIOLET	10
SPARE	ORANGE/ROSE	11
SPARE	ORANGE/AQUA	12

TO 077052  
(SEE SHEET 346 FOR  
CABINET DETAIL)

**NOTES**  
1. FIBERS NOT SHOWN SHALL ARE TO BE SPARE UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THIS INCLUDES FIBERS IN THE GREEN, BROWN, SLATE, WHITE, RED, BLACK, YELLOW, VIOLET, ROSE, AND AQUA TUBES

**144-FIBER TRUNK CABLE**

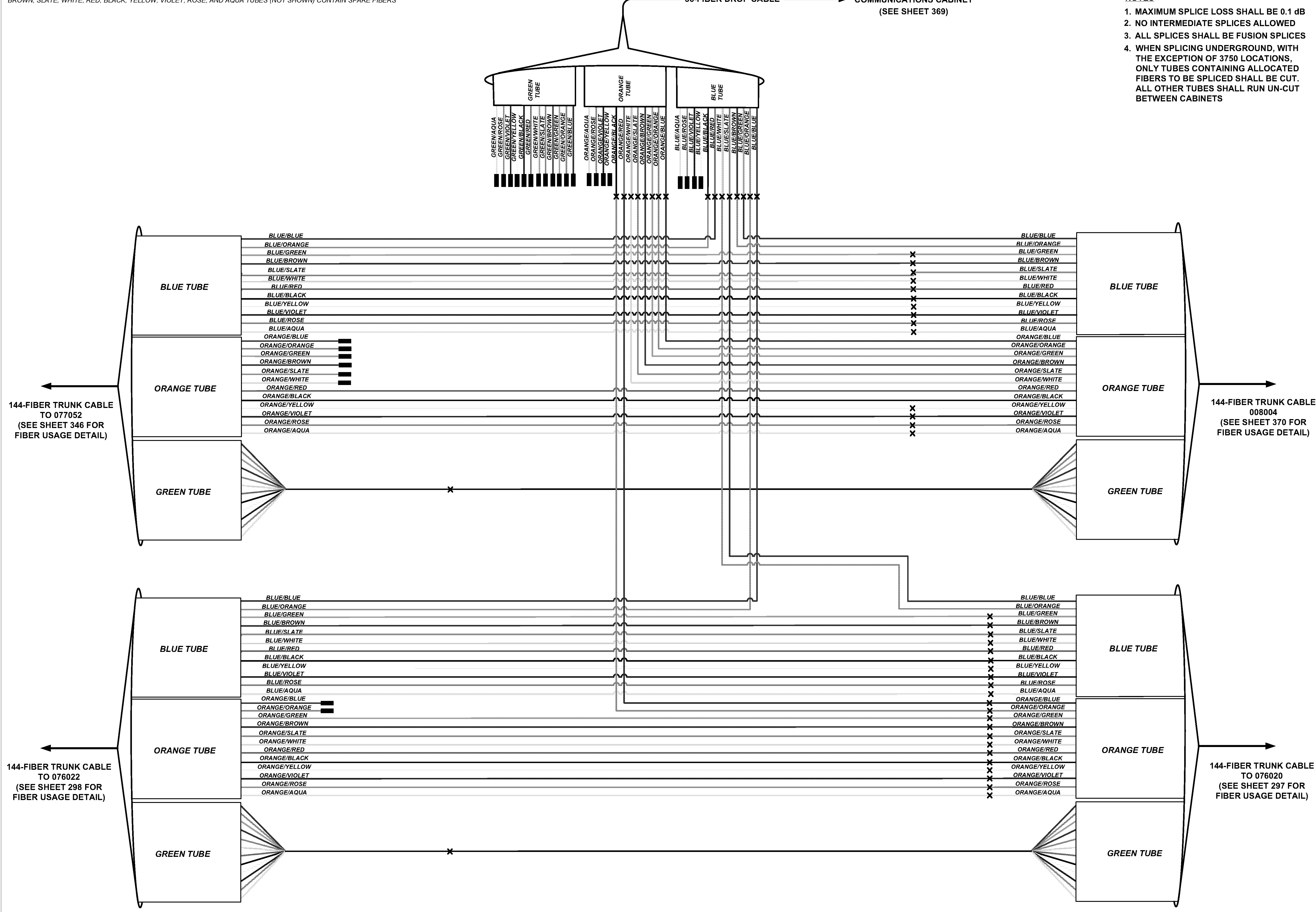
BROWN, SLATE, WHITE, RED, BLACK, YELLOW, VIOLET, ROSE, AND AQUA TUBES (NOT SHOWN) CONTAIN SPARE FIBERS

TO 008002  
COMMUNICATIONS CABINET  
(SEE SHEET 369)

**NOTES**

1. MAXIMUM SPLICE LOSS SHALL BE 0.1 dB
2. NO INTERMEDIATE SPLICES ALLOWED
3. ALL SPLICES SHALL BE FUSION SPLICES
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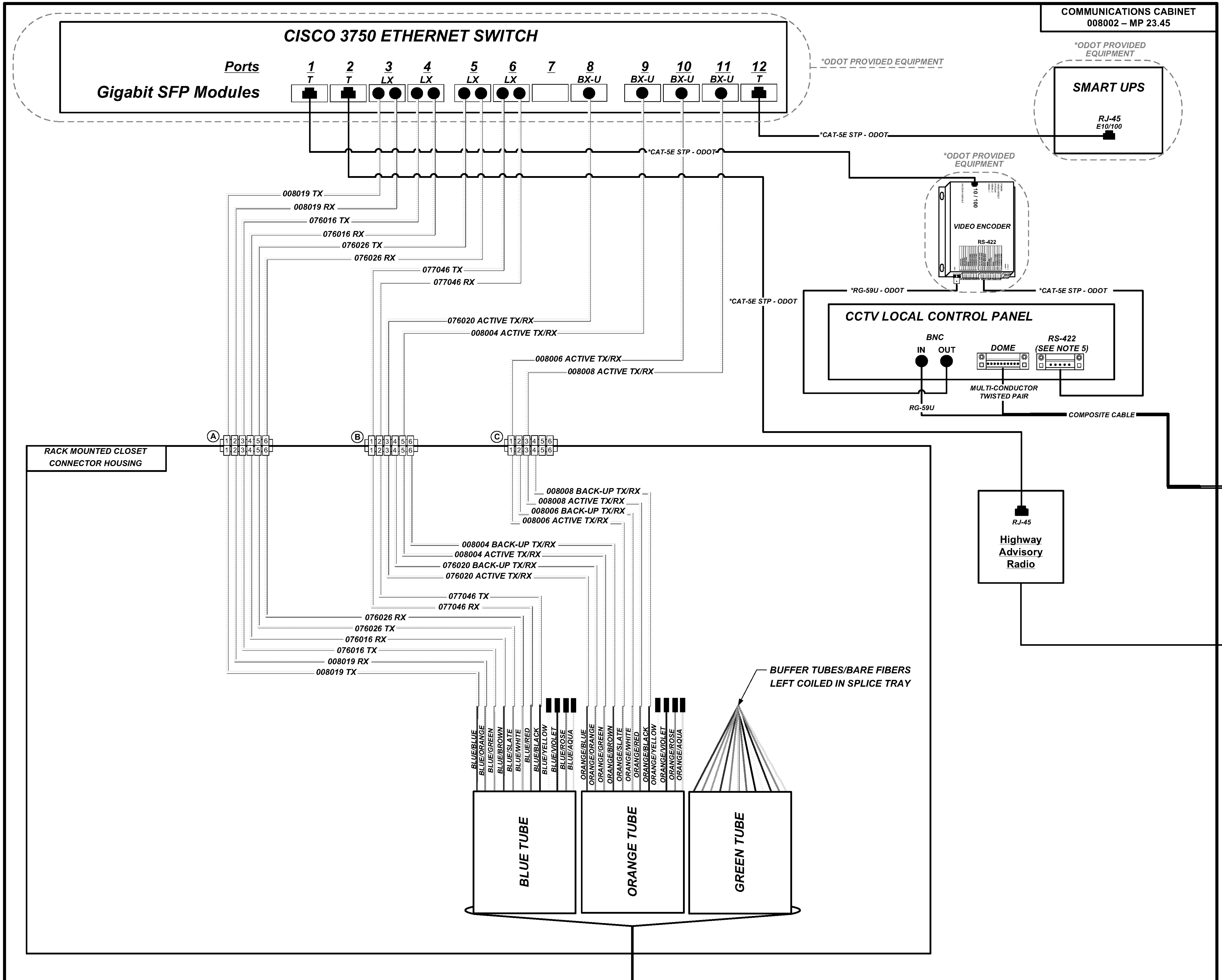
CALCULATED RM CHECKED JDG



FIBER ASSIGNMENT DETAIL DRAWING WITH ACTUAL FIBER USAGE SHOWN  
COMMUNICATIONS CABINET 008002

STA-SUM ITS





**KEY**




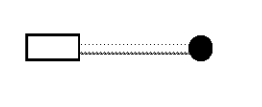
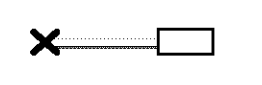


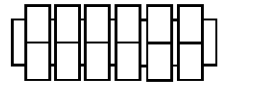
- VEHICLE DETECTOR  
DEVICE NUMBER FOLLOWED BY 'D'
- CCTV CAMERA  
DEVICE NUMBER FOLLOWED BY 'C'
- DMS  
DYNAMIC MESSAGE SIGN  
DEVICE NUMBER FOLLOWED BY 'S'
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- FIBER OPTIC PIGTAIL
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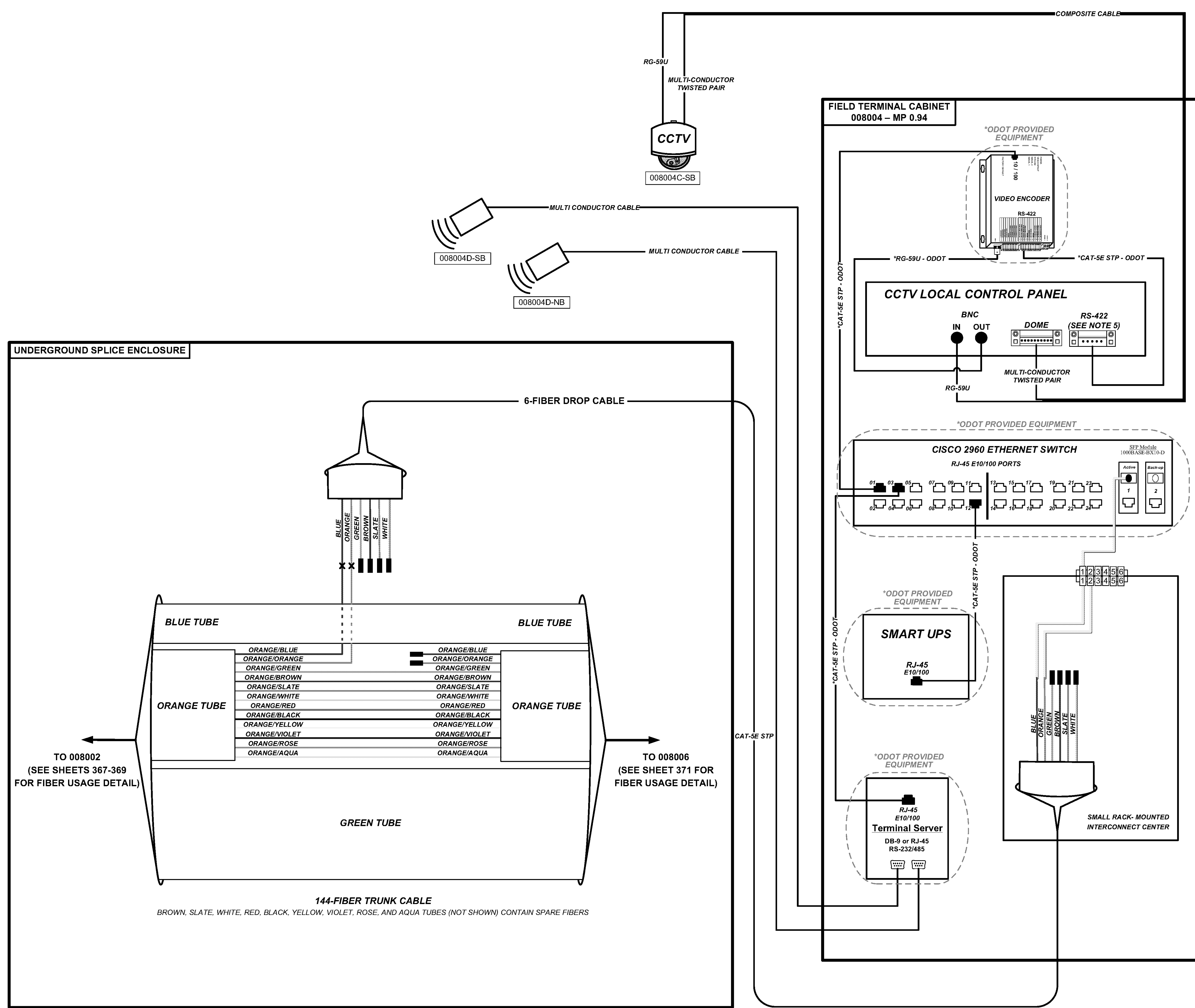
FIBER ASSIGNMENT DETAIL DRAWING WITH ACTUAL FIBER USAGE SHOWN  
COMMUNICATIONS CABINET 008002

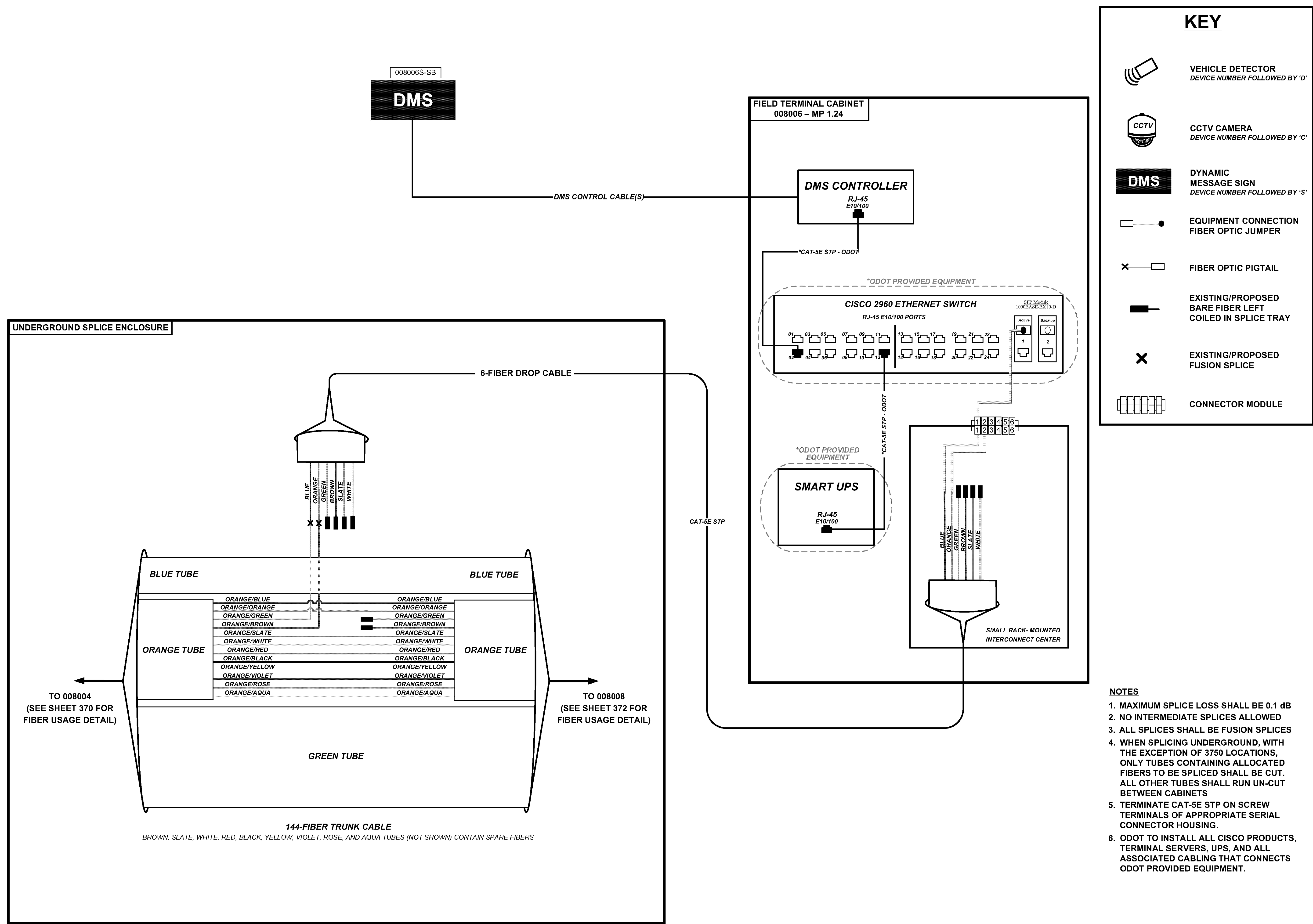
STA-SUM ITS

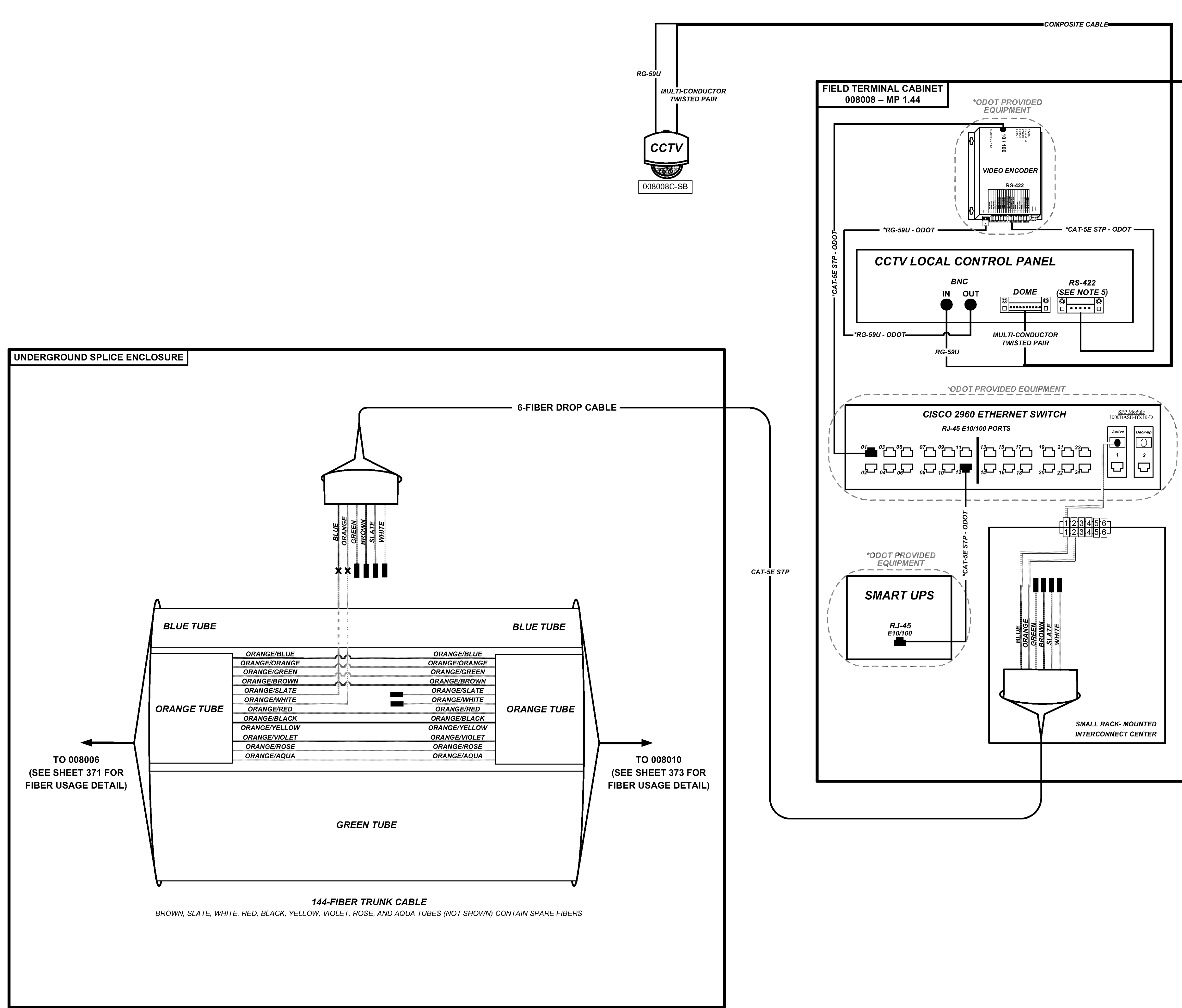
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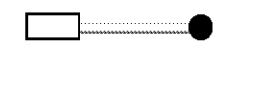
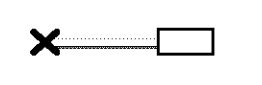


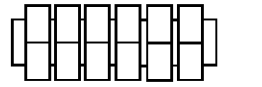
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  4. WHEN SPLICING UNDERGROUND, WITH THE EXCEPTION OF 3750 LOCATIONS, ONLY TUBES CONTAINING ALLOCATED FIBERS TO BE SPLICED SHALL BE CUT. ALL OTHER TUBES SHALL RUN UN-CUT BETWEEN CABINETS
  5. TERMINATE CAT-5E STP ON SCREW TERMINALS OF APPROPRIATE SERIAL CONNECTOR HOUSING.
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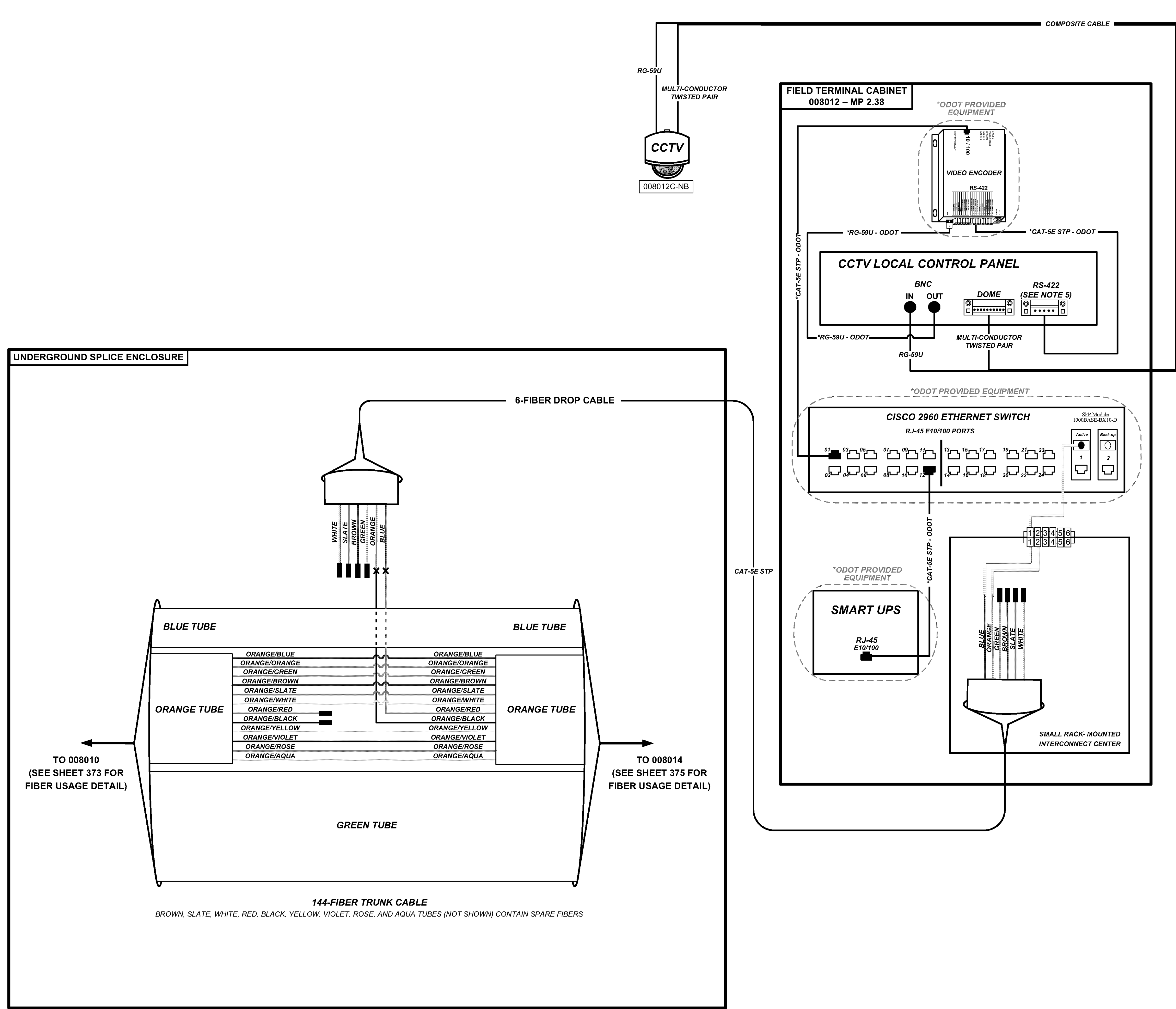
**KEY**

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-  CCTV CAMERA  
DEVICE NUMBER FOLLOWED BY 'C'
-  DMS  
DYNAMIC MESSAGE SIGN  
DEVICE NUMBER FOLLOWED BY 'S'
-  EQUIPMENT CONNECTION  
FIBER OPTIC JUMPER
-  FIBER OPTIC PIGTAIL
-  EXISTING/PROPOSED  
BARE FIBER LEFT  
COILED IN SPLICE TRAY
-  EXISTING/PROPOSED  
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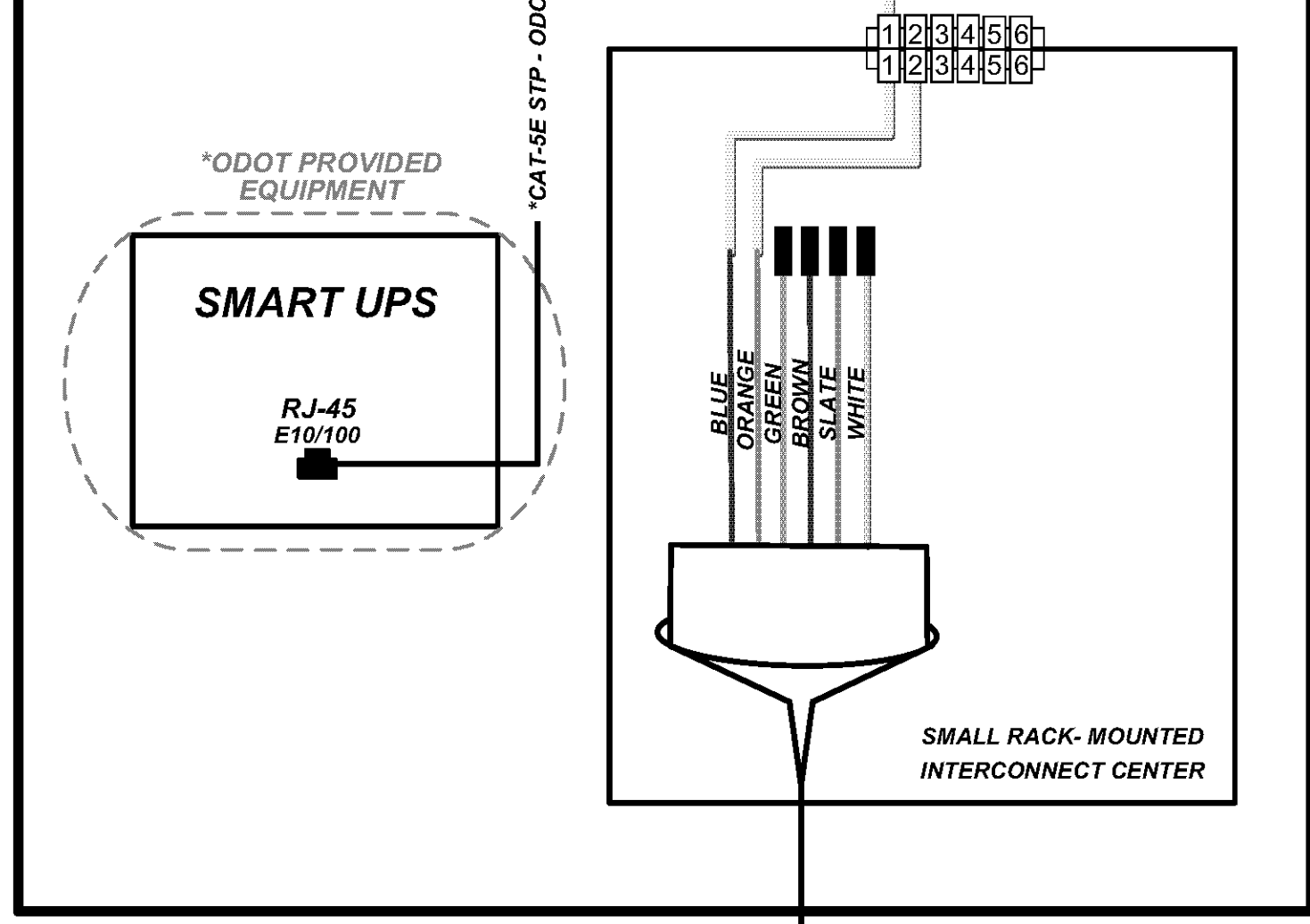
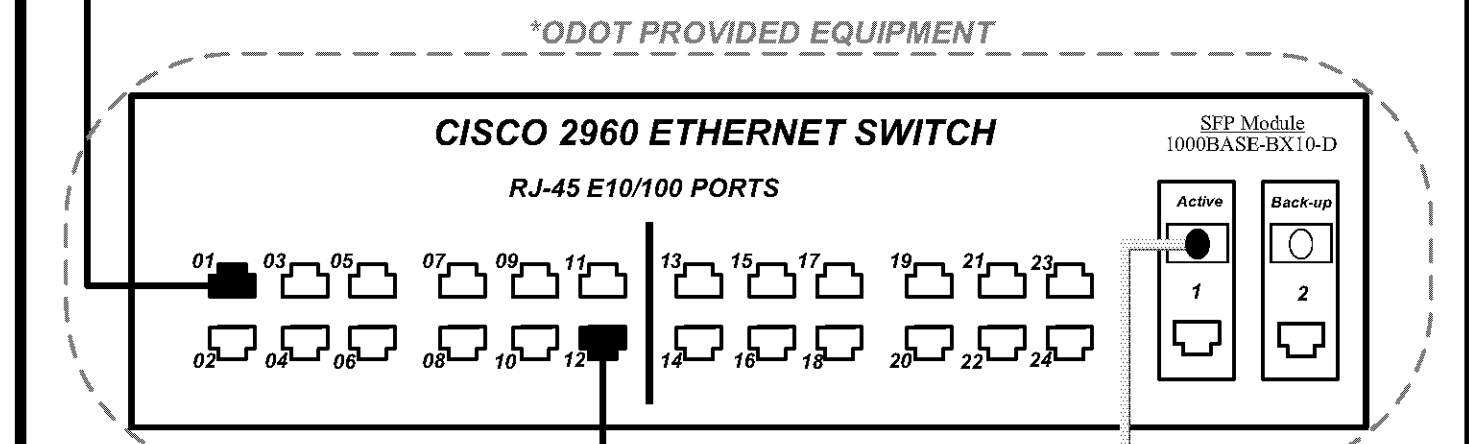
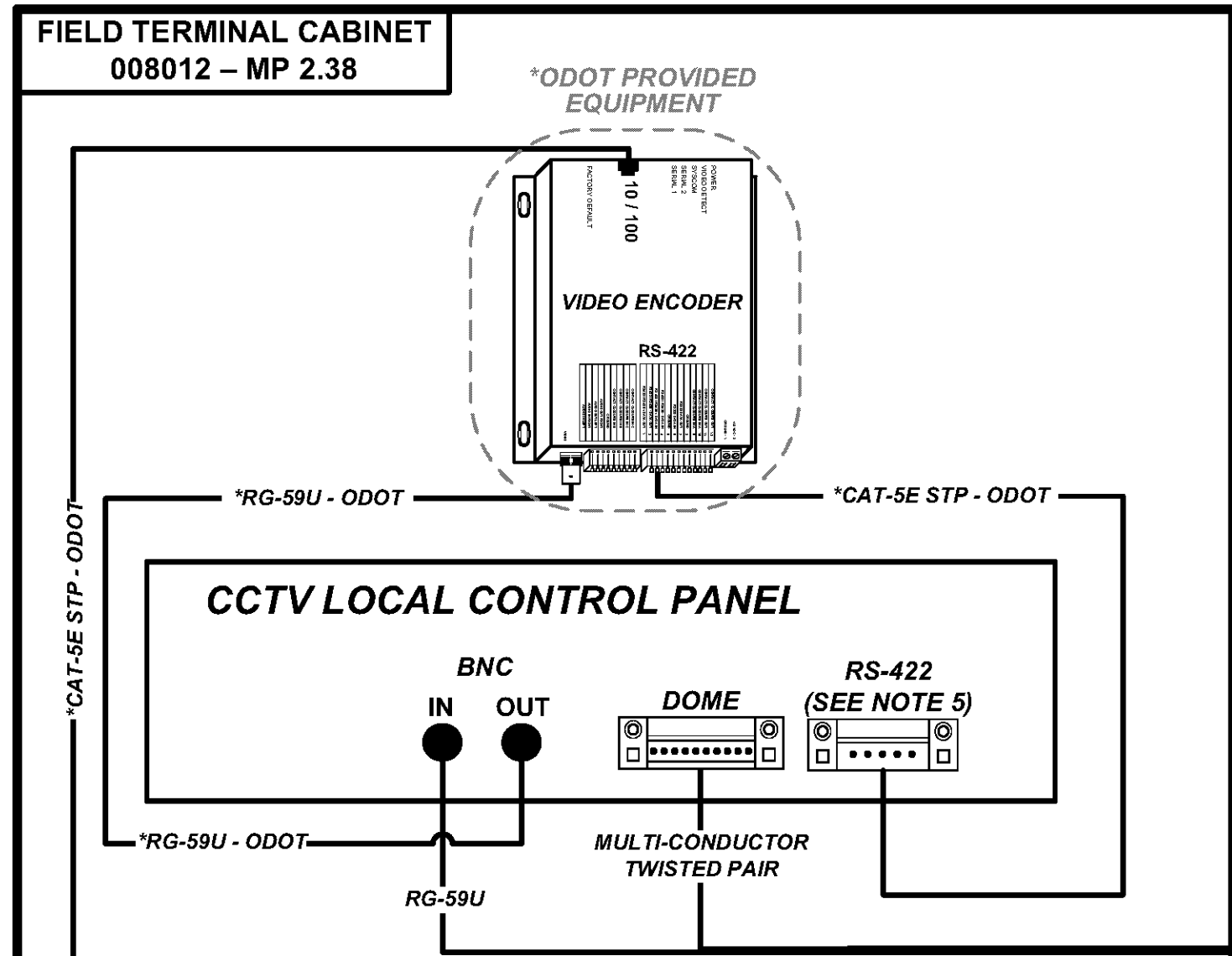
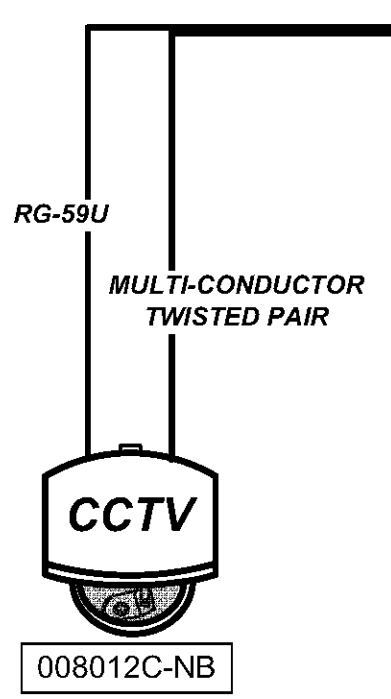




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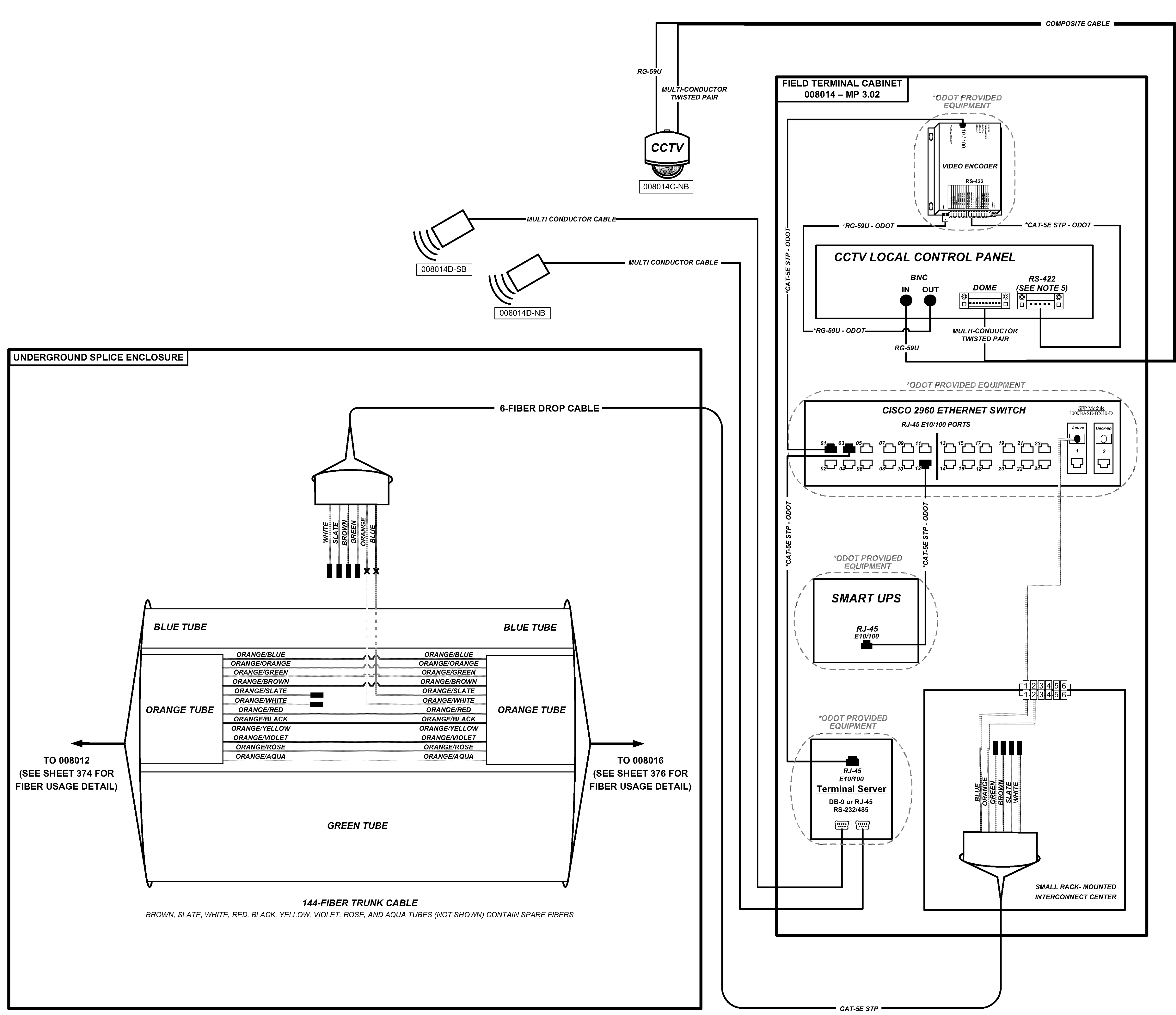


**144-FIBER TRUNK CABLE**  
BROWN, SLATE, WHITE, RED, BLACK, YELLOW, VIOLET, ROSE, AND AQUA TUBES (NOT SHOWN) CONTAIN SPARE FIBERS




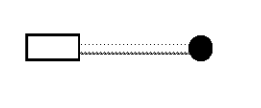
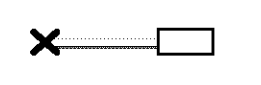


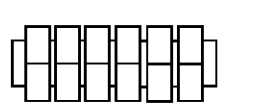
**UNDERGROUND SPLICE ENCLOSURE**

TO 008010  
(SEE SHEET 373 FOR  
FIBER USAGE DETAIL)

TO 008014  
(SEE SHEET 375 FOR  
FIBER USAGE DETAIL)



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**UNDERGROUND SPLICE ENCLOSURE**

**FIELD TERMINAL CABINET  
008014 - MP 3.02**

\*ODOT PROVIDED EQUIPMENT

**CCTV LOCAL CONTROL PANEL**

**CISCO 2960 ETHERNET SWITCH**  
RJ-45 E10/100 PORTS

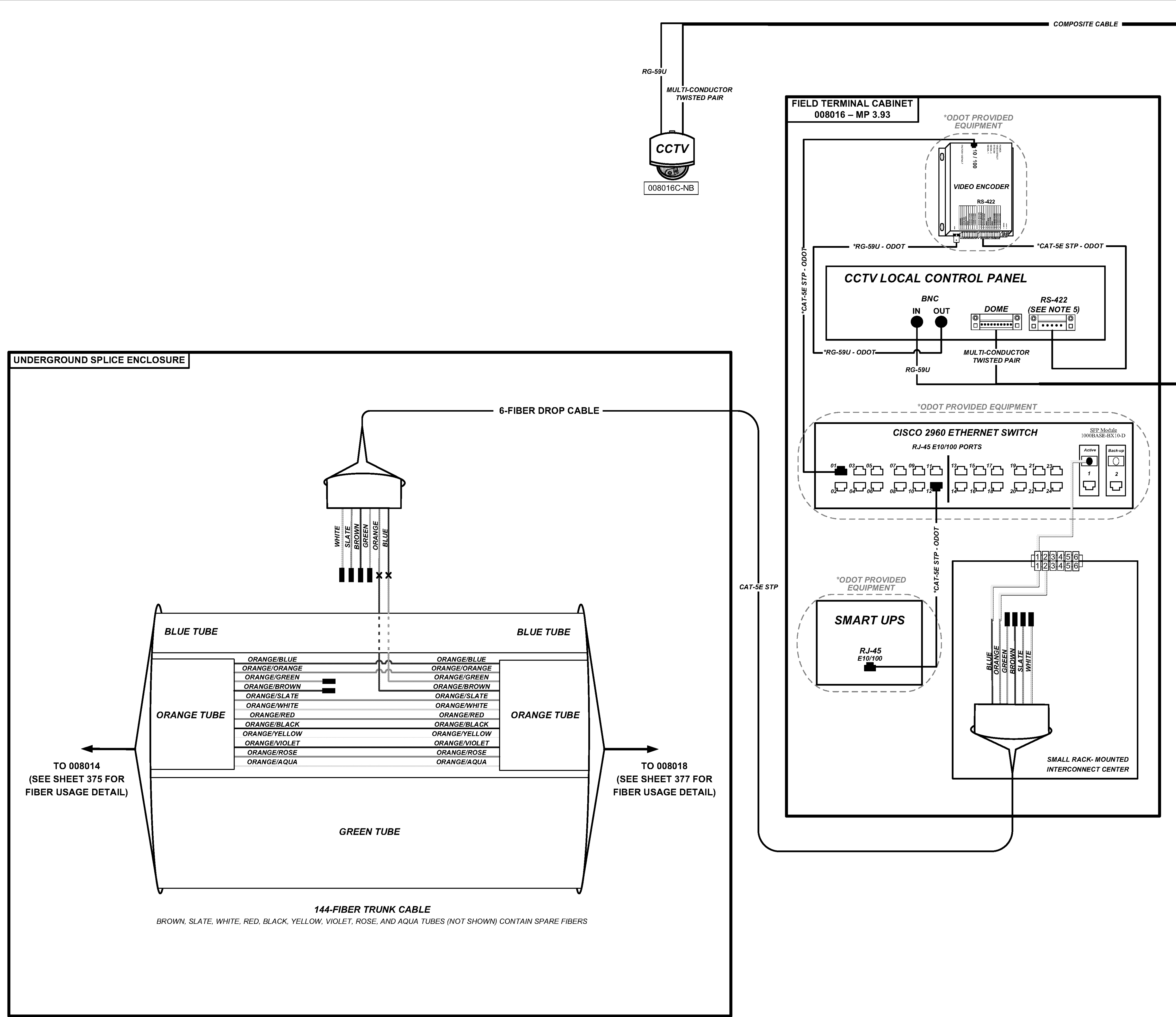
**SMART UPS**

**Terminal Server**

SMALL RACK-MOUNTED  
INTERCONNECT CENTER

TO 008012  
(SEE SHEET 374 FOR  
FIBER USAGE DETAIL)

TO 008016  
(SEE SHEET 376 FOR  
FIBER USAGE DETAIL)





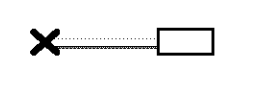


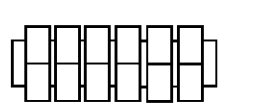


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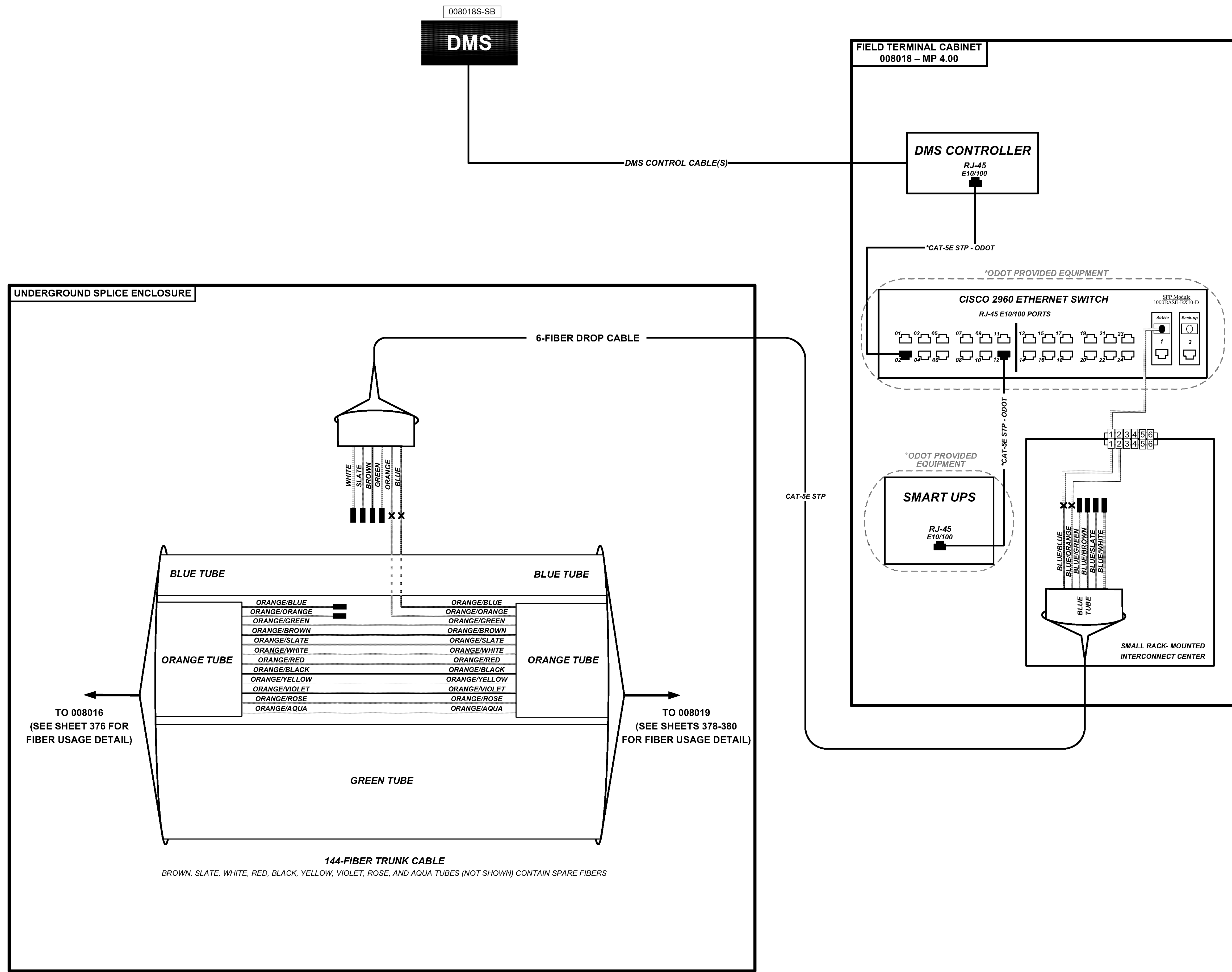
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- CONNECTOR MODULE

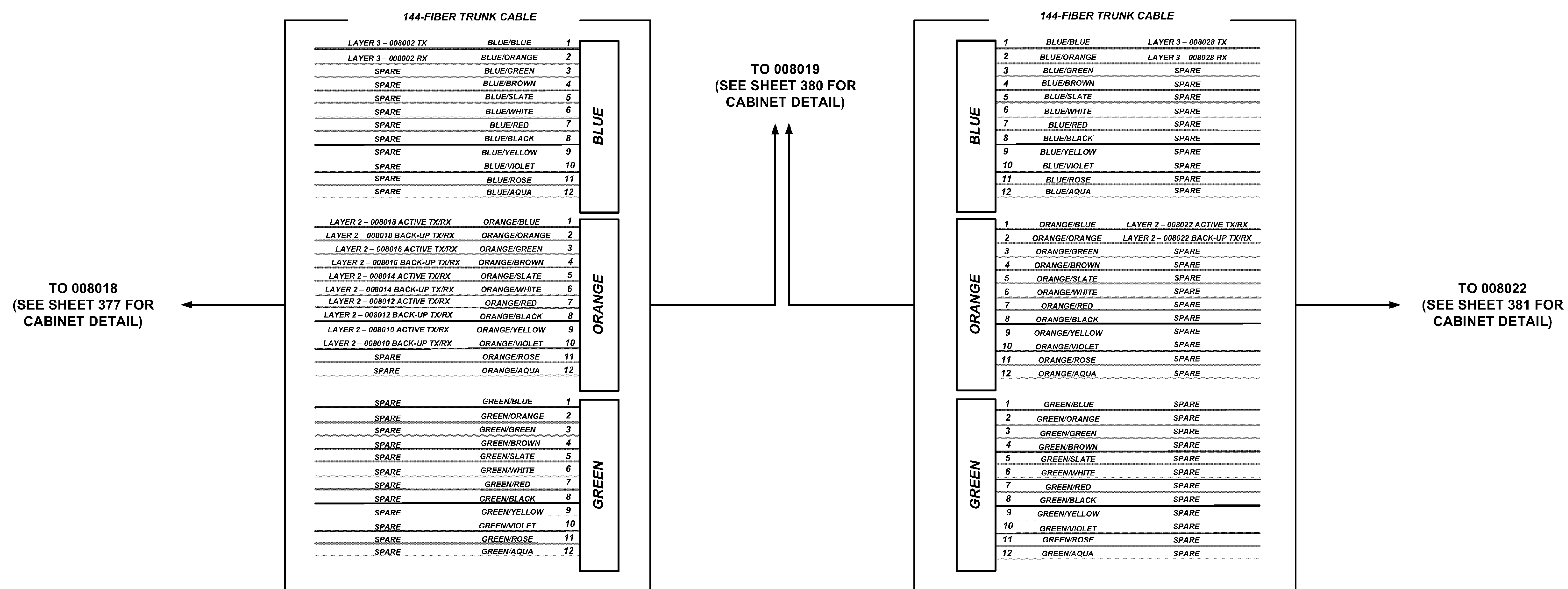
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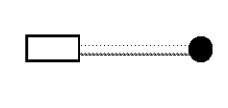
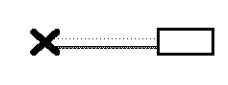


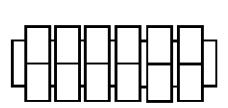


**NOTES**

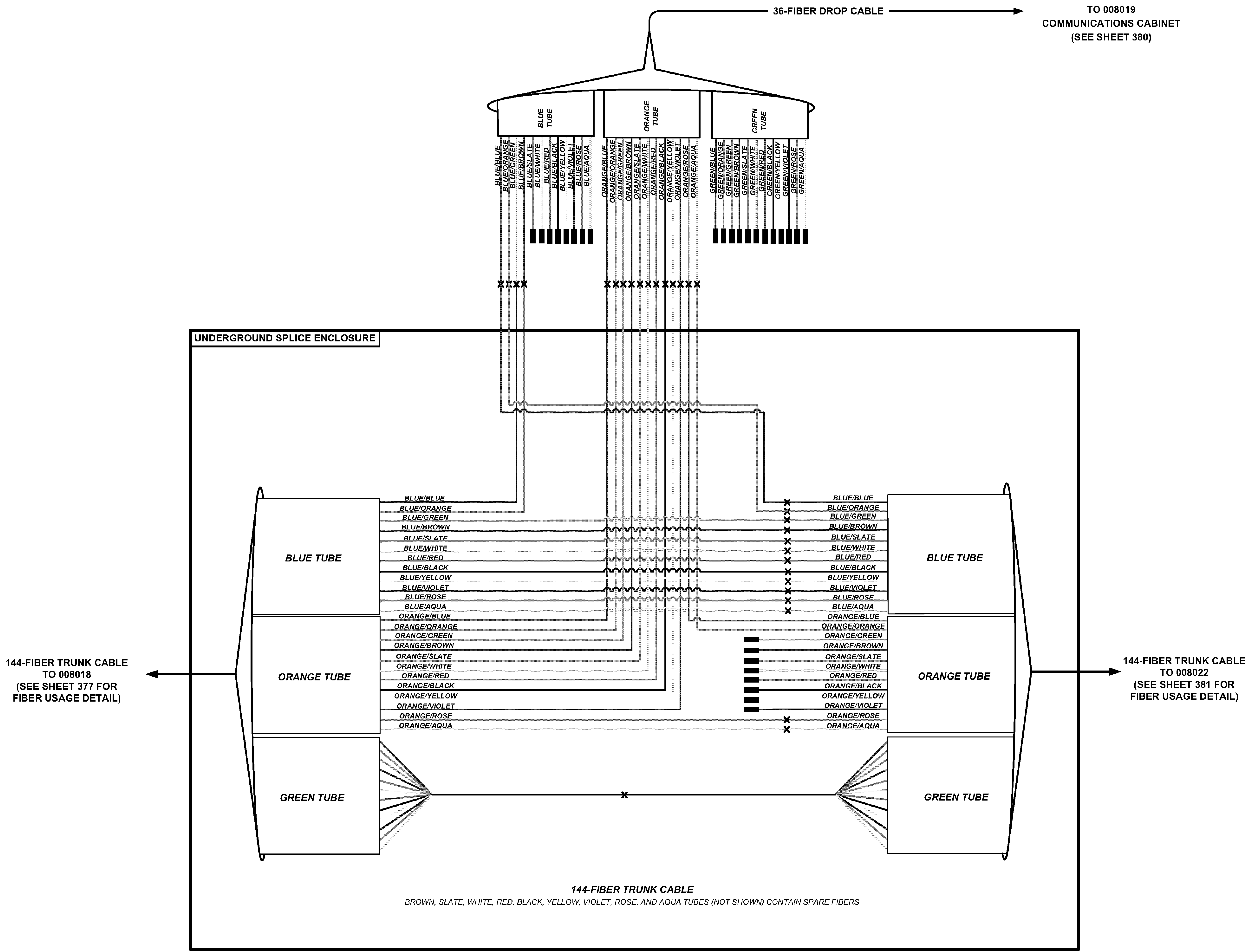
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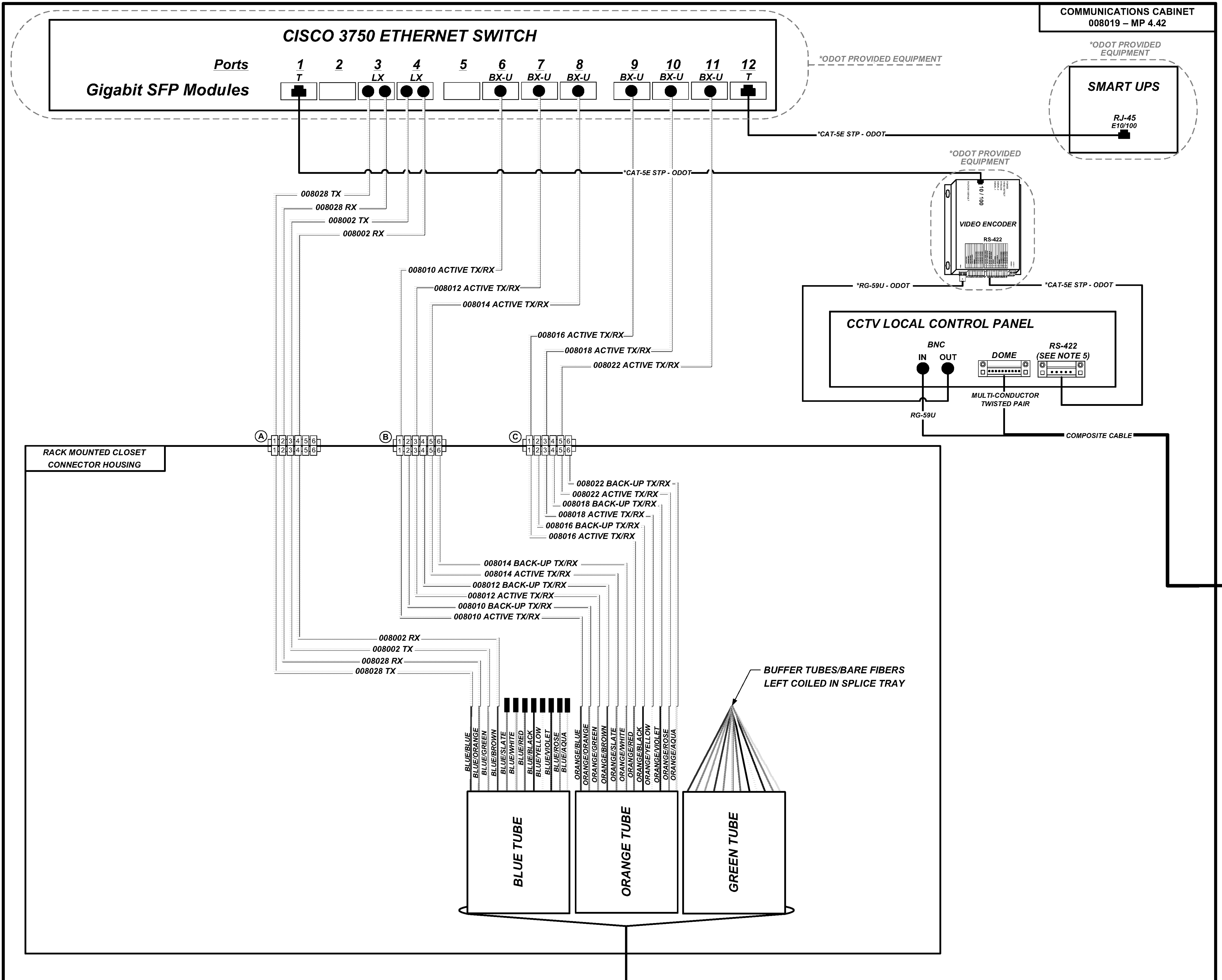


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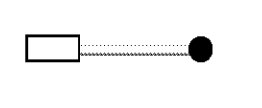
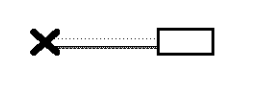
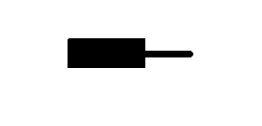

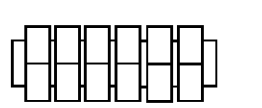
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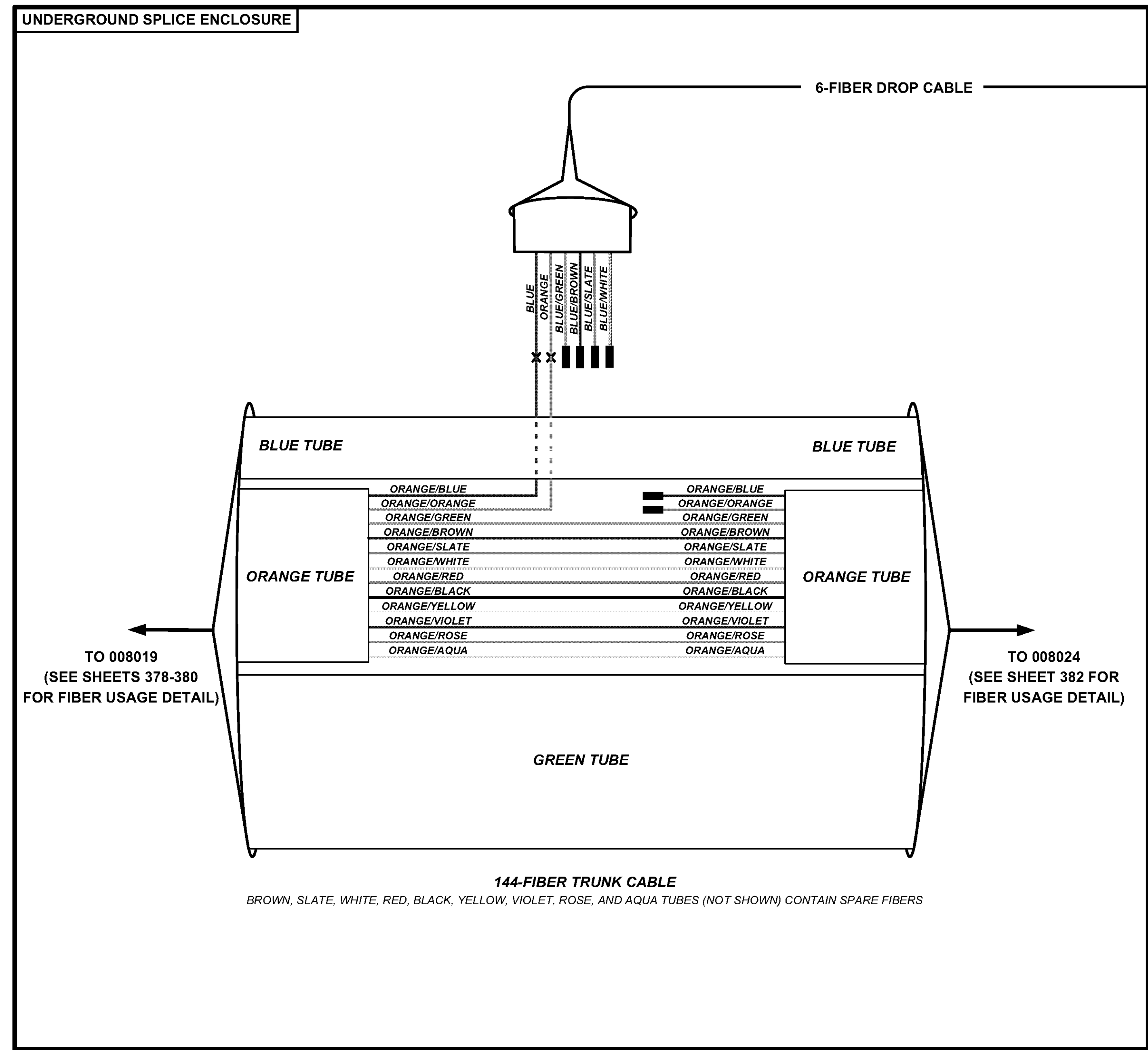
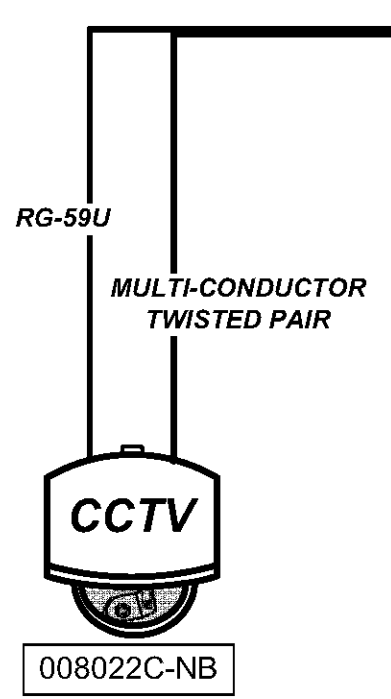
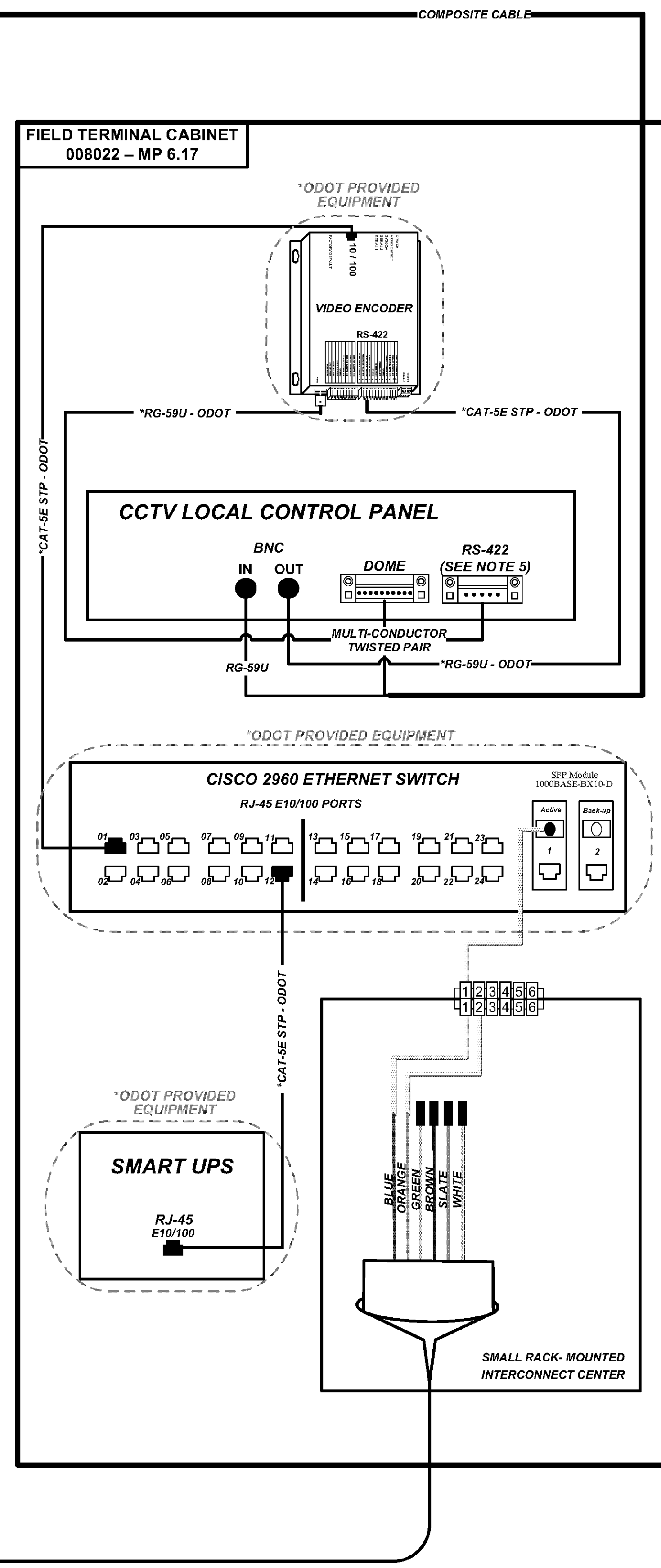
FIBER ASSIGNMENT DETAIL DRAWING WITH ACTUAL FIBER USAGE SHOWN  
COMMUNICATIONS CABINET 008019

STA-SUM ITS

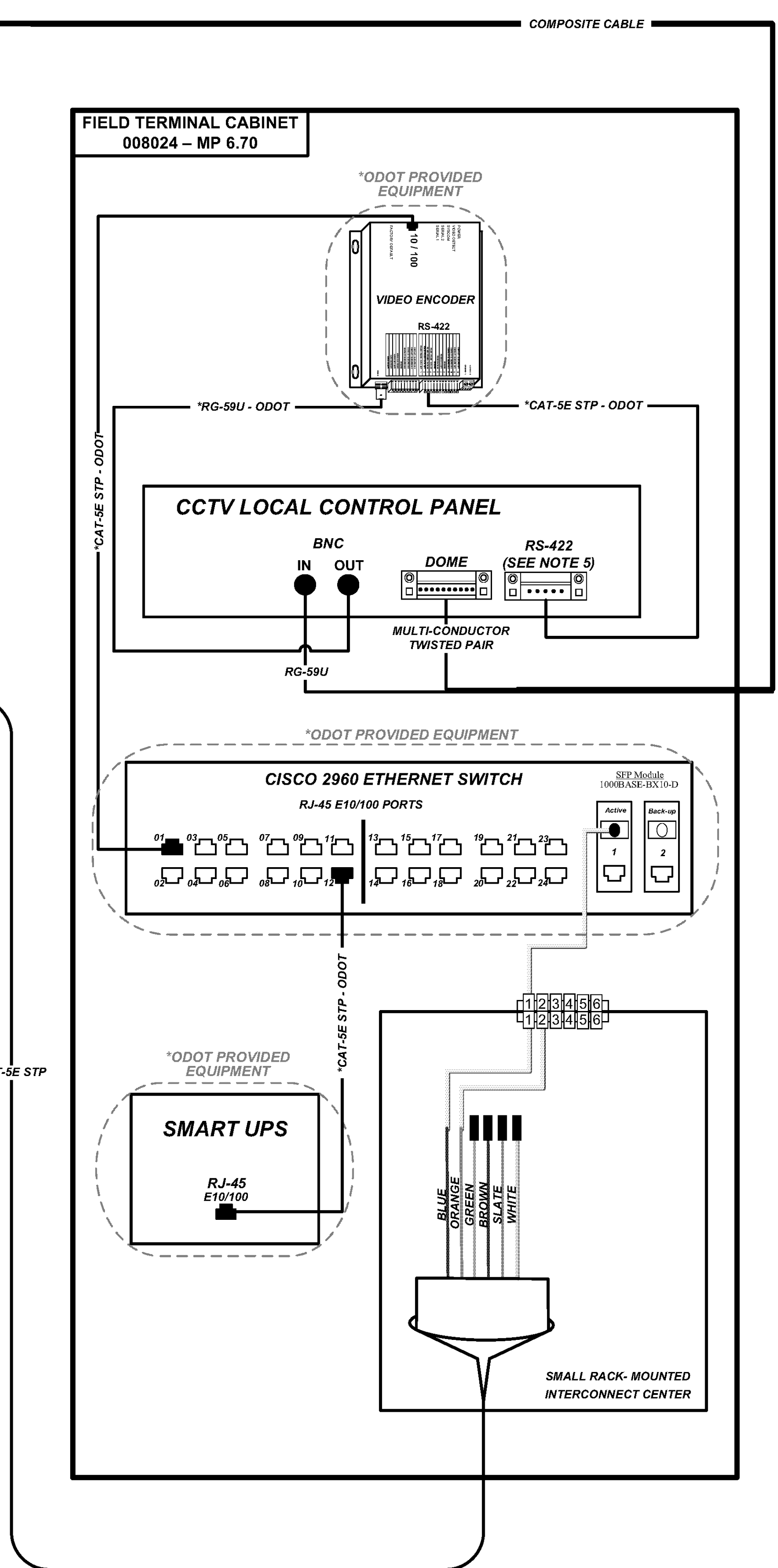
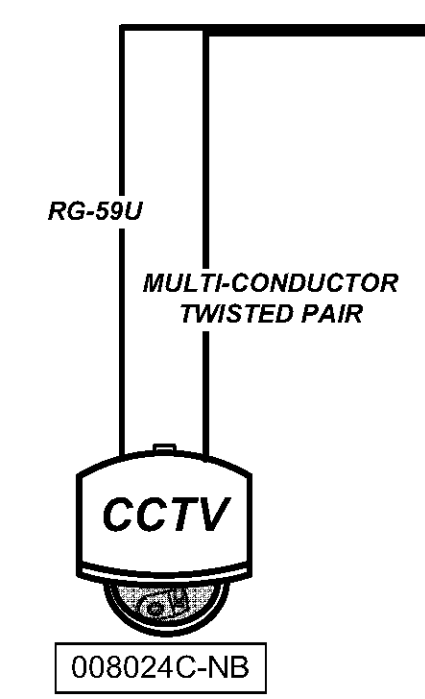
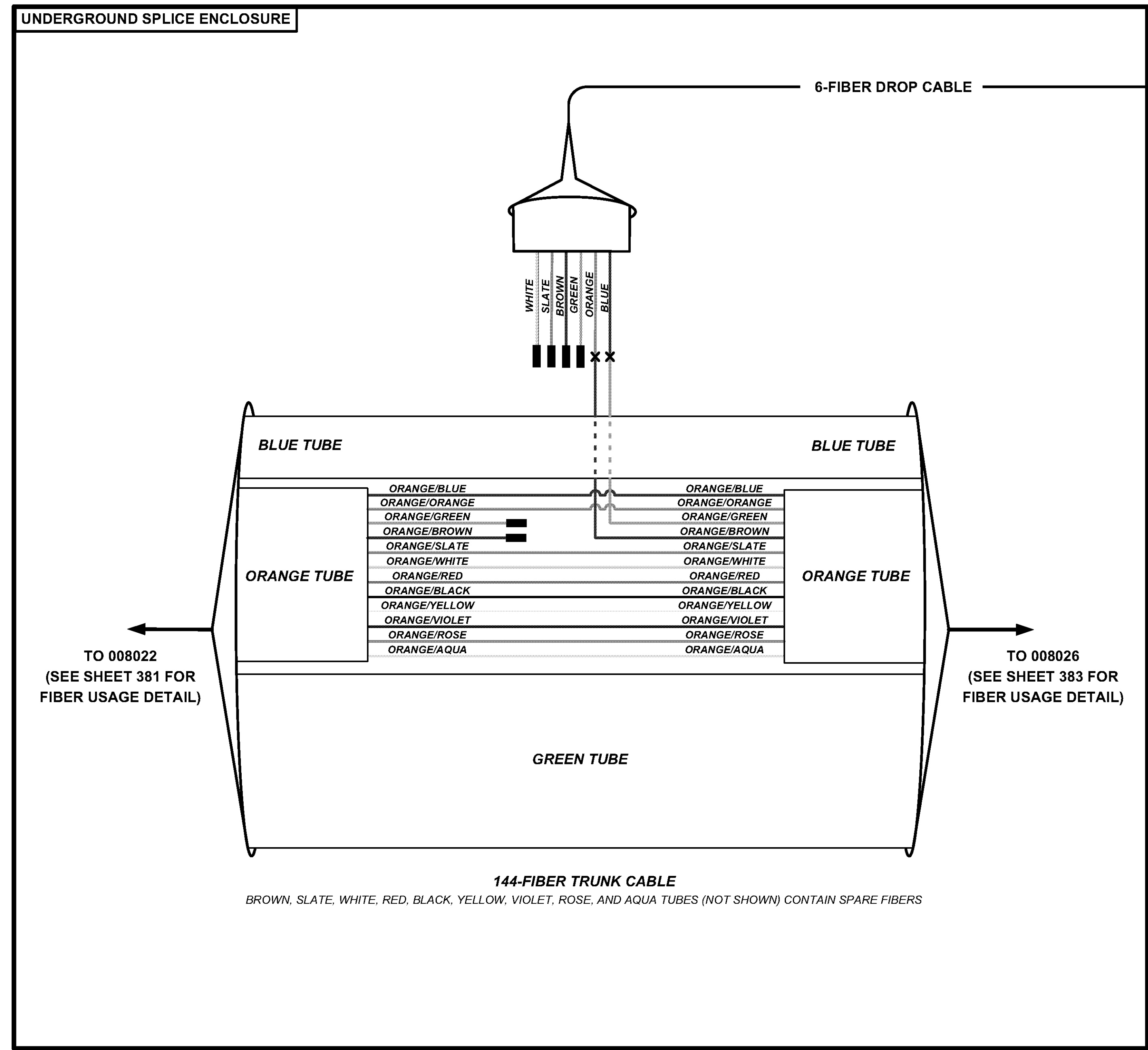
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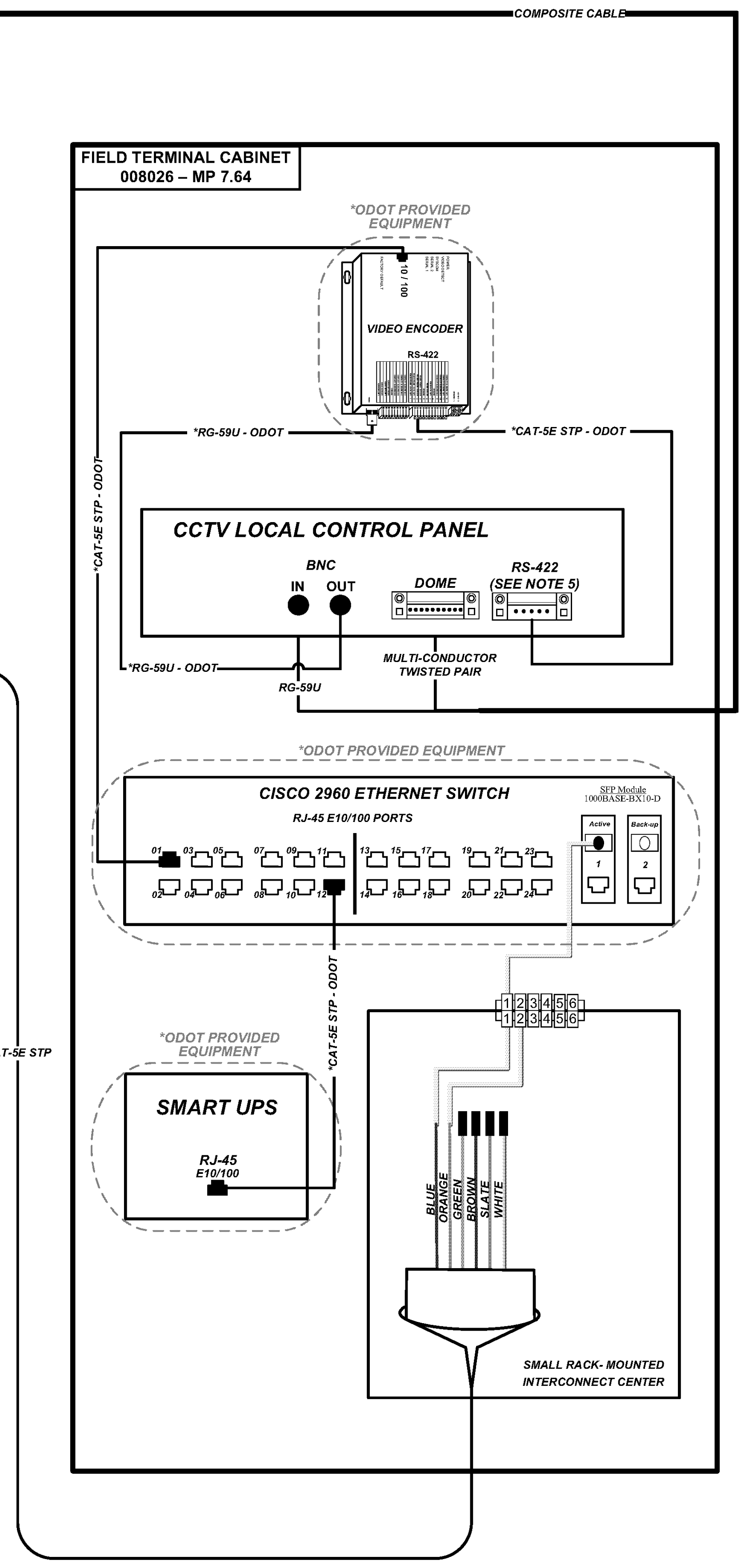
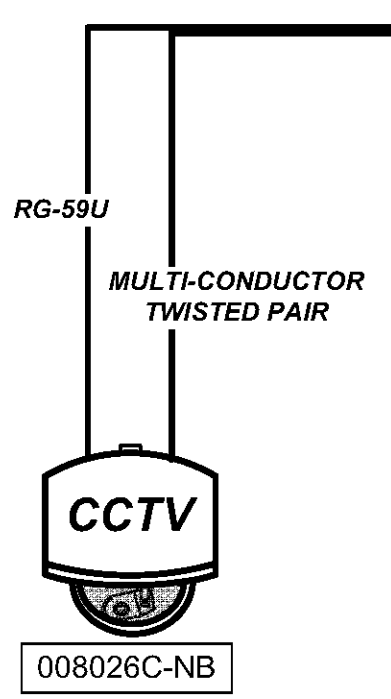
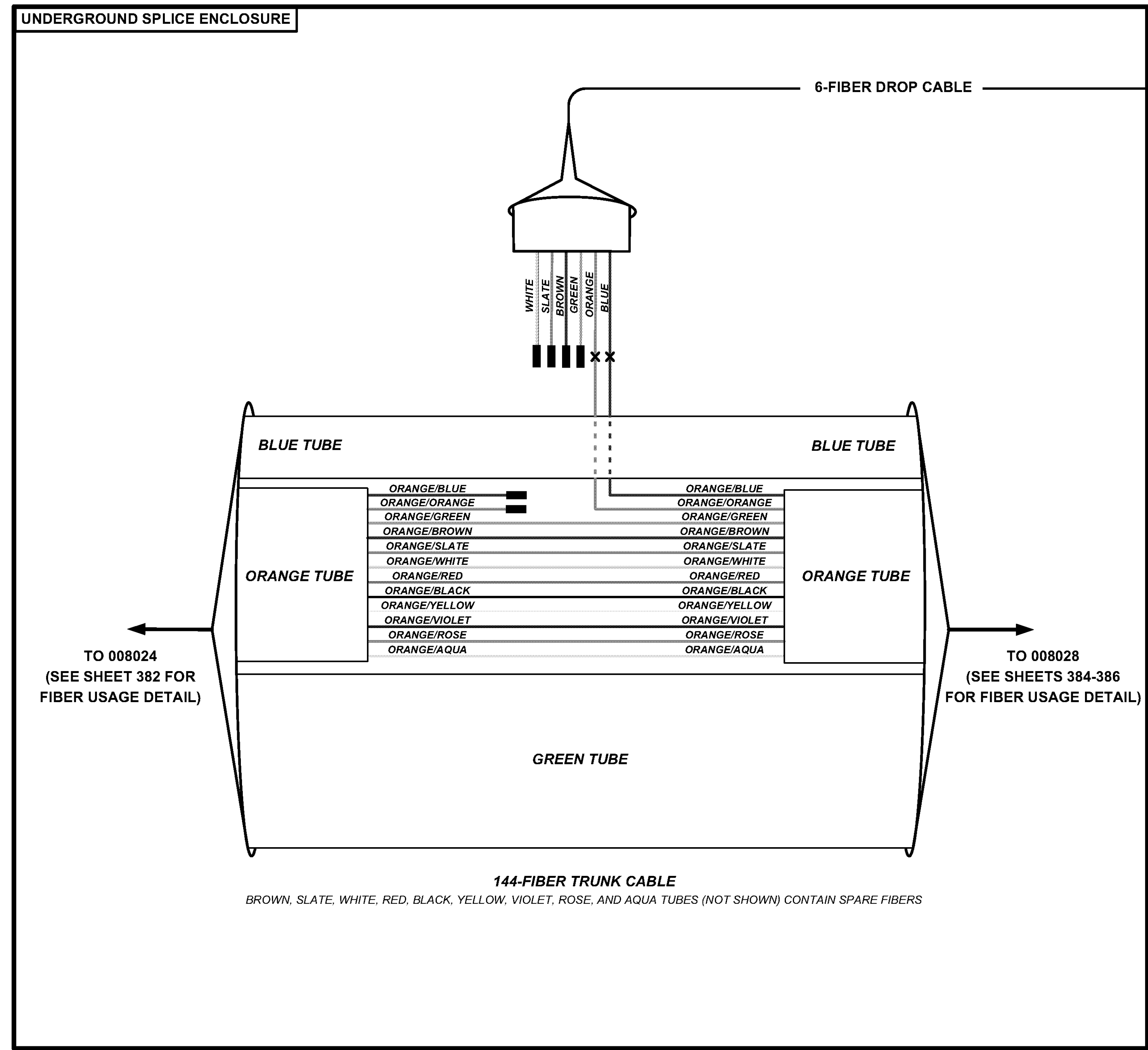
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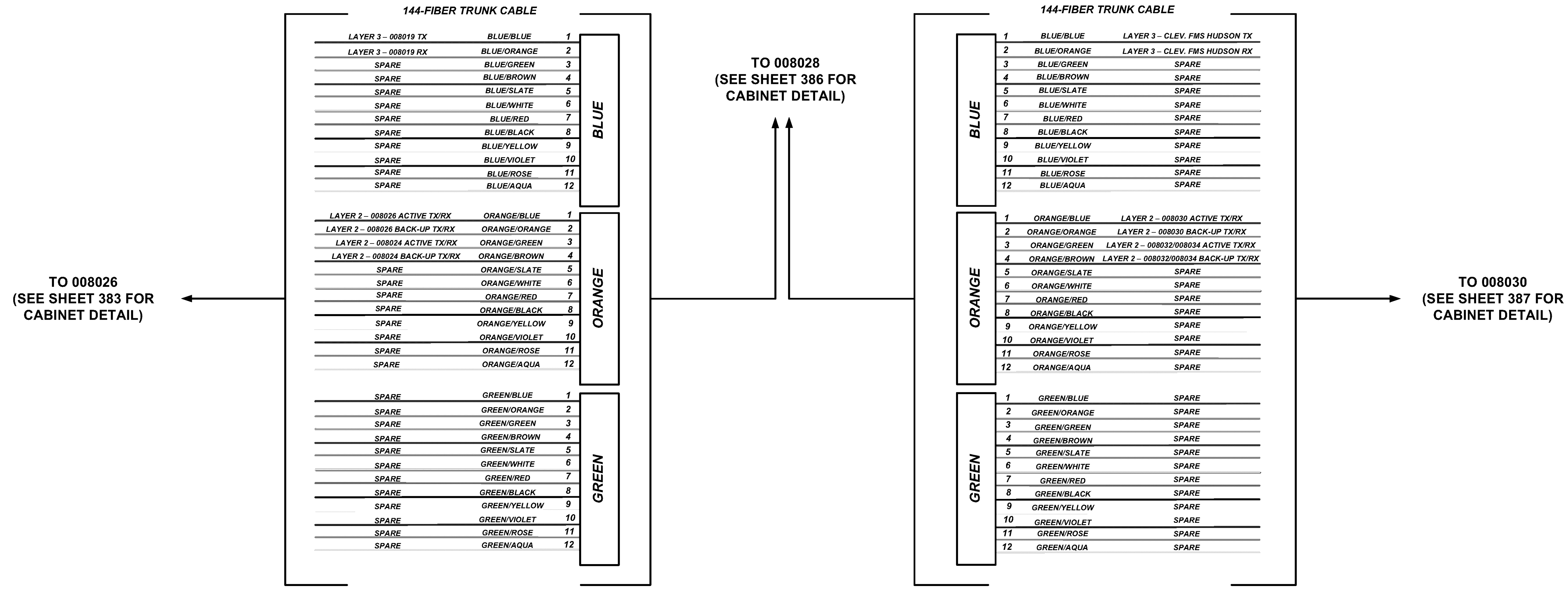


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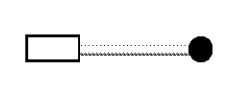
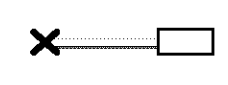


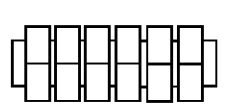




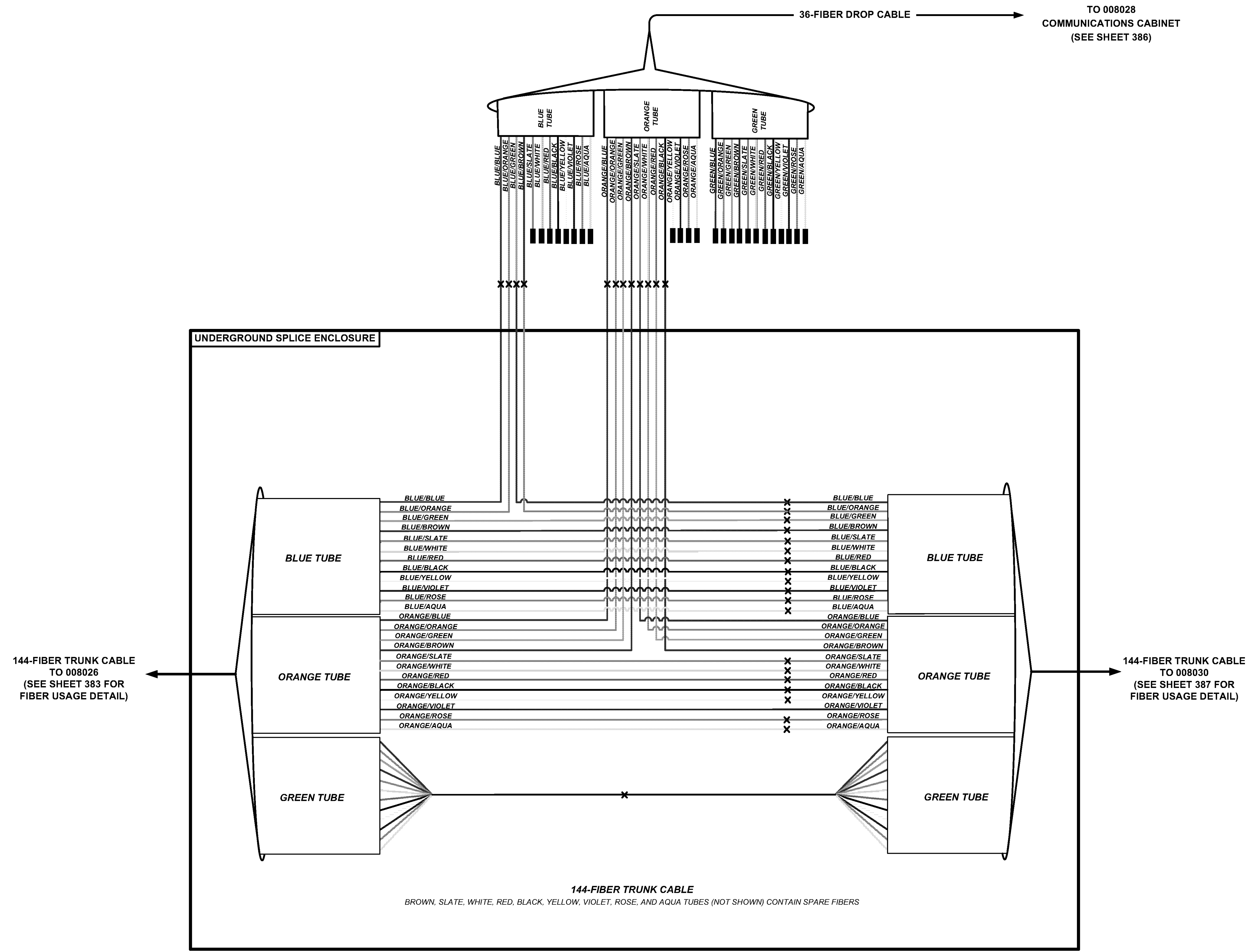
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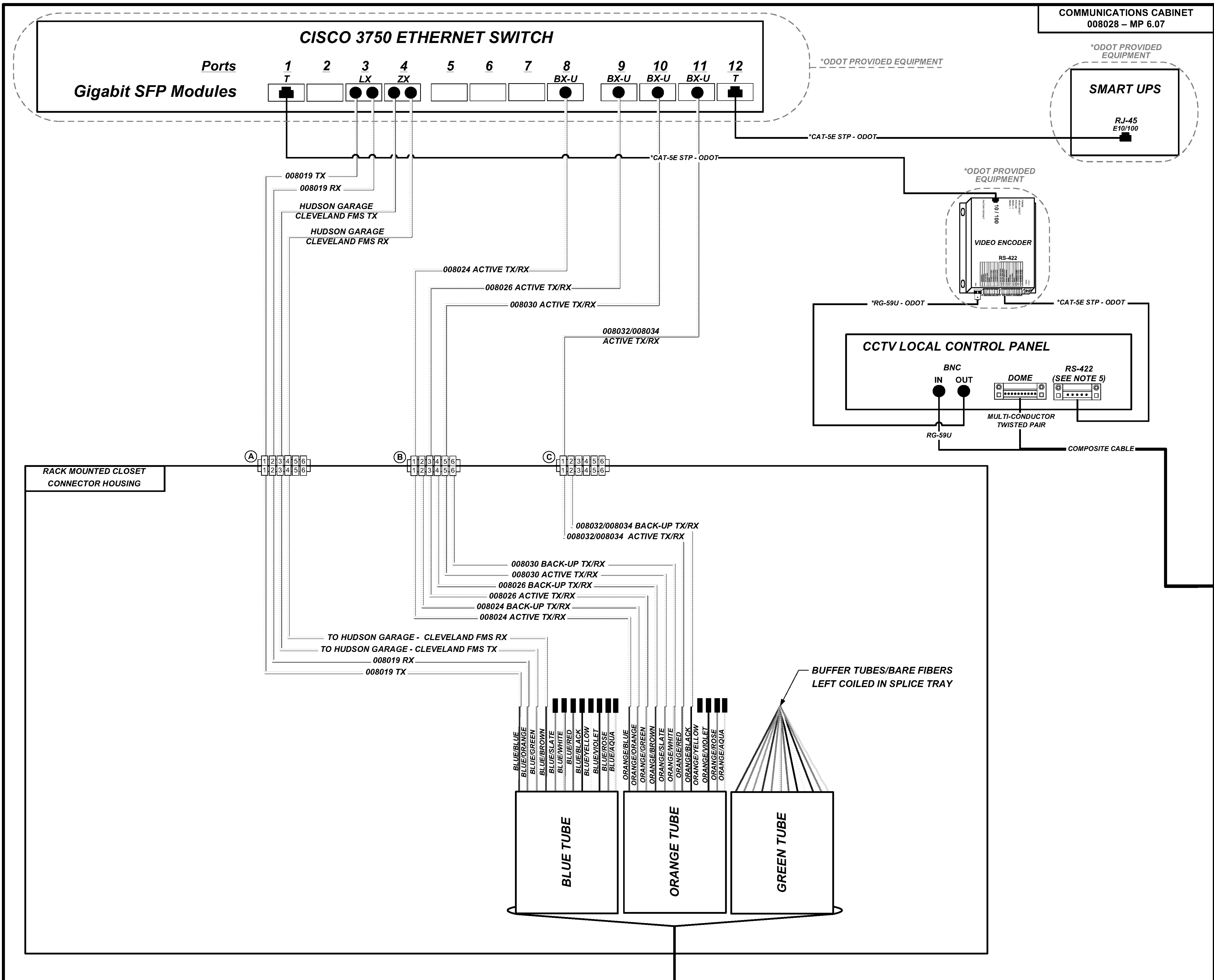
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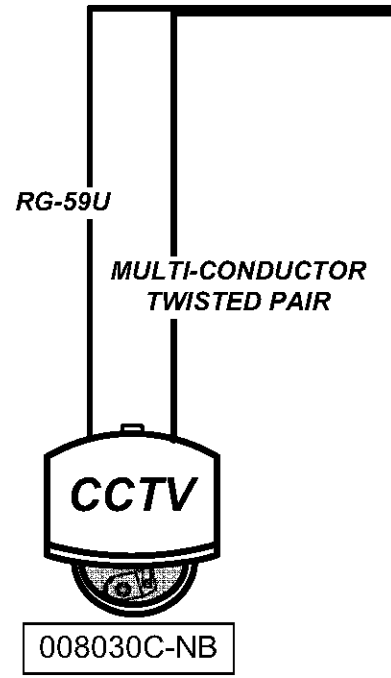
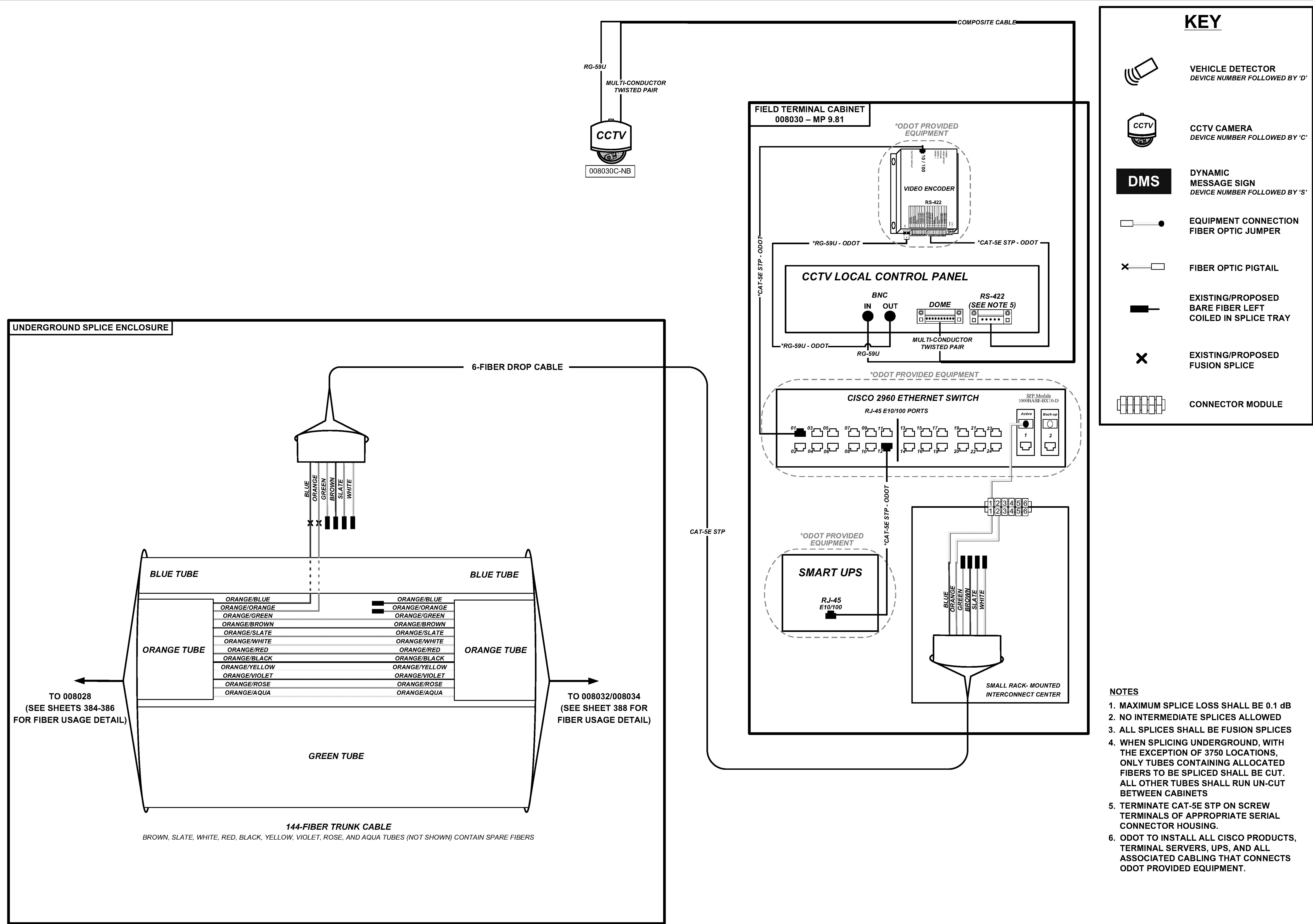




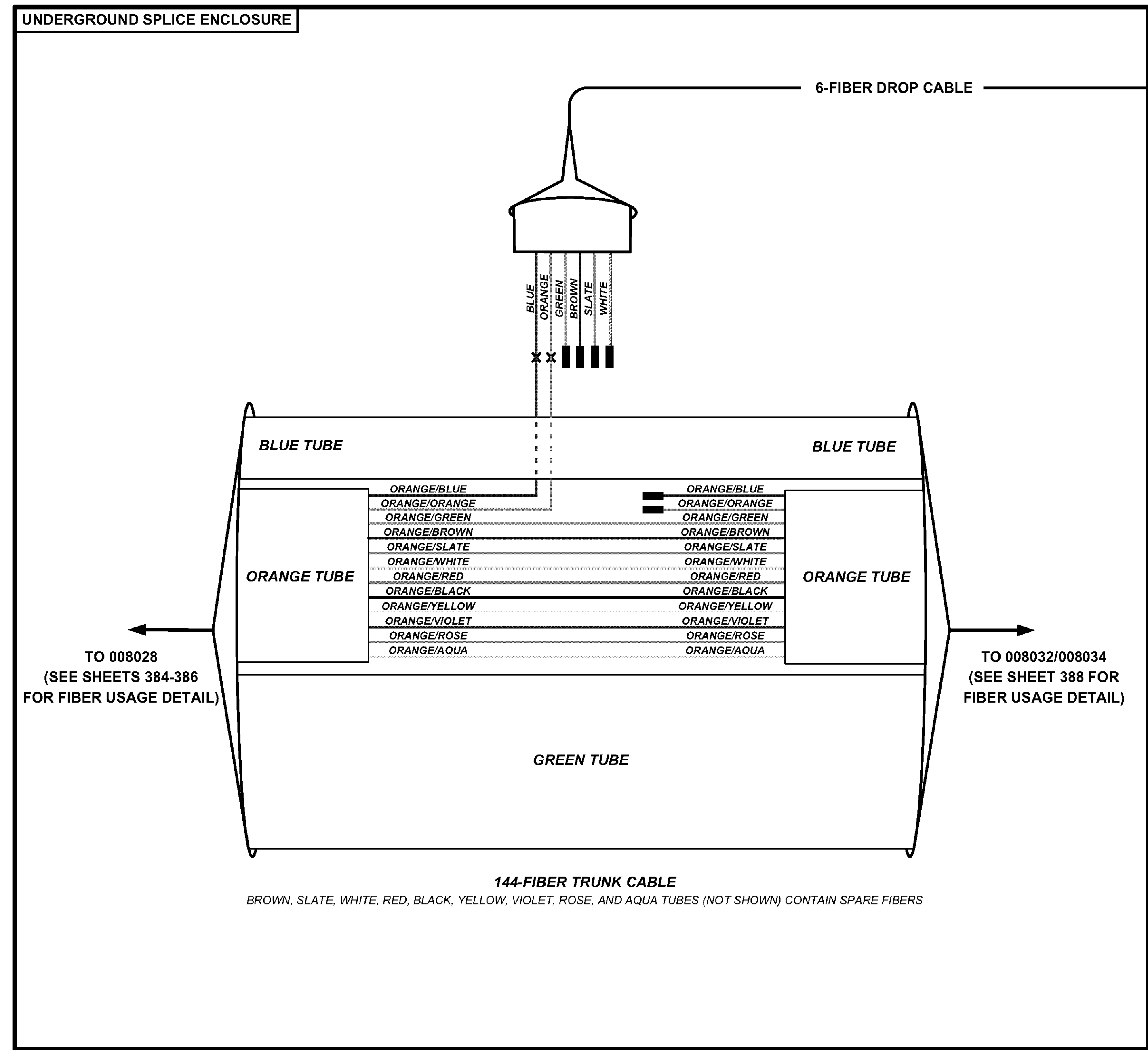
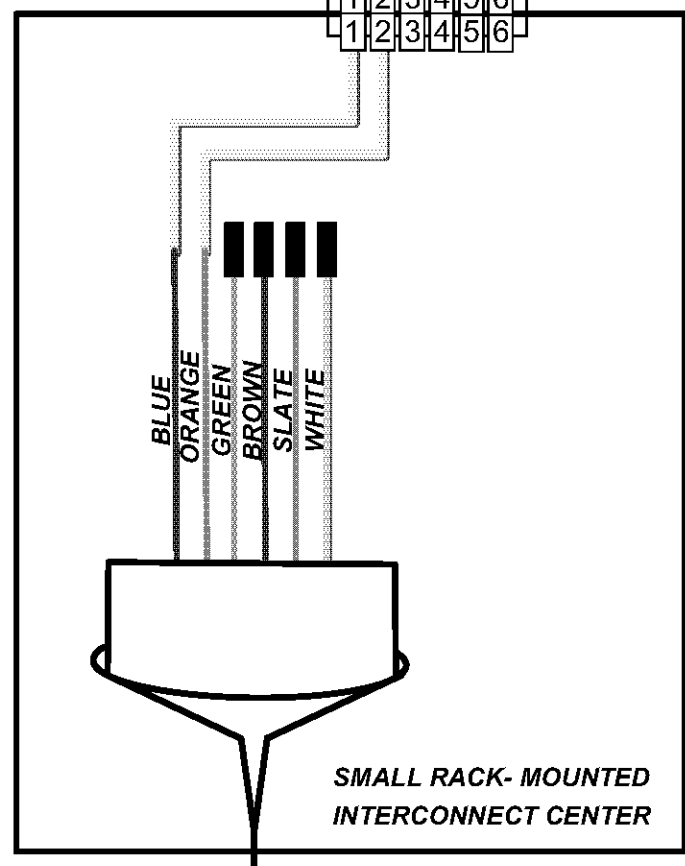
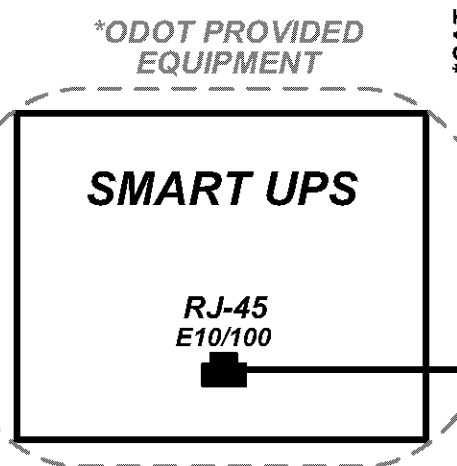
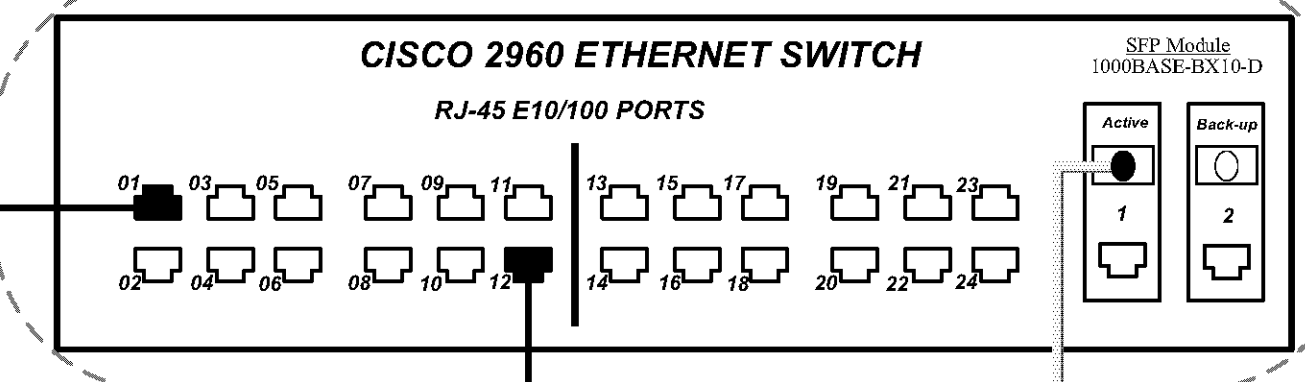
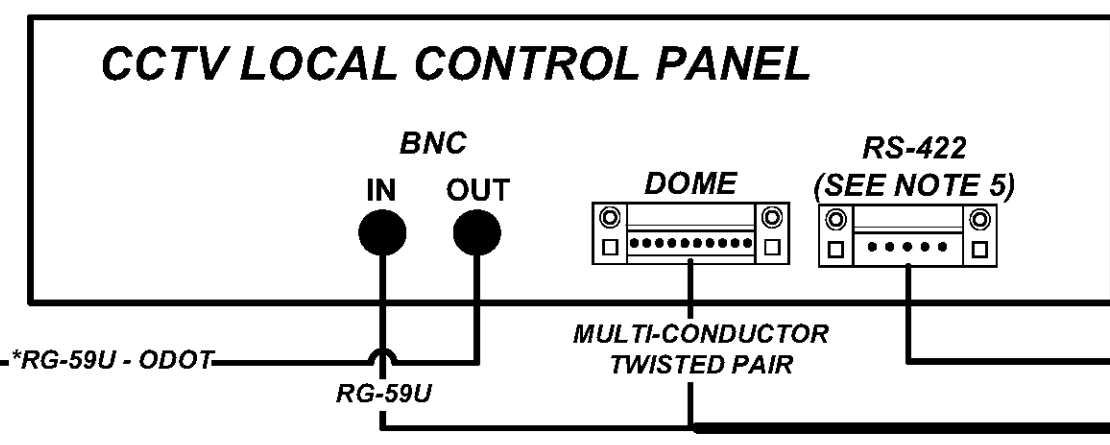
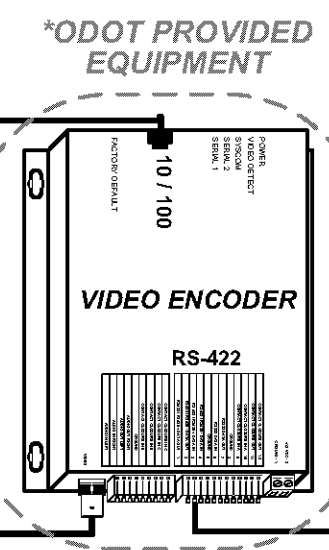
### KEY

- VEHICLE DETECTOR  
DEVICE NUMBER FOLLOWED BY 'D'
- CCTV CAMERA  
DEVICE NUMBER FOLLOWED BY 'C'
- DMS  
DYNAMIC MESSAGE SIGN  
DEVICE NUMBER FOLLOWED BY 'S'
- EQUIPMENT CONNECTION FIBER OPTIC JUMPER
- FIBER OPTIC PIGTAIL
- EXISTING/PROPOSED BARE FIBER LEFT COILED IN SPLICE TRAY
- EXISTING/PROPOSED FUSION SPLICE
- CONNECTOR MODULE

- ### NOTES
1. MAXIMUM SPLICE LOSS SHALL BE 0.1 dB
  2. NO INTERMEDIATE SPLICES ALLOWED
  3. ALL SPLICES SHALL BE FUSION SPLICES
  4. WHEN SPLICING UNDERGROUND, WITH THE EXCEPTION OF 3750 LOCATIONS, ONLY TUBES CONTAINING ALLOCATED FIBERS TO BE SPLICED SHALL BE CUT. ALL OTHER TUBES SHALL RUN UN-CUT BETWEEN CABINETS
  5. TERMINATE CAT-5E STP ON SCREW TERMINALS OF APPROPRIATE SERIAL CONNECTOR HOUSING.
  6. ODOT TO INSTALL ALL CISCO PRODUCTS, TERMINAL SERVERS, UPS, AND ALL ASSOCIATED CABLING THAT CONNECTS ODOT PROVIDED EQUIPMENT.

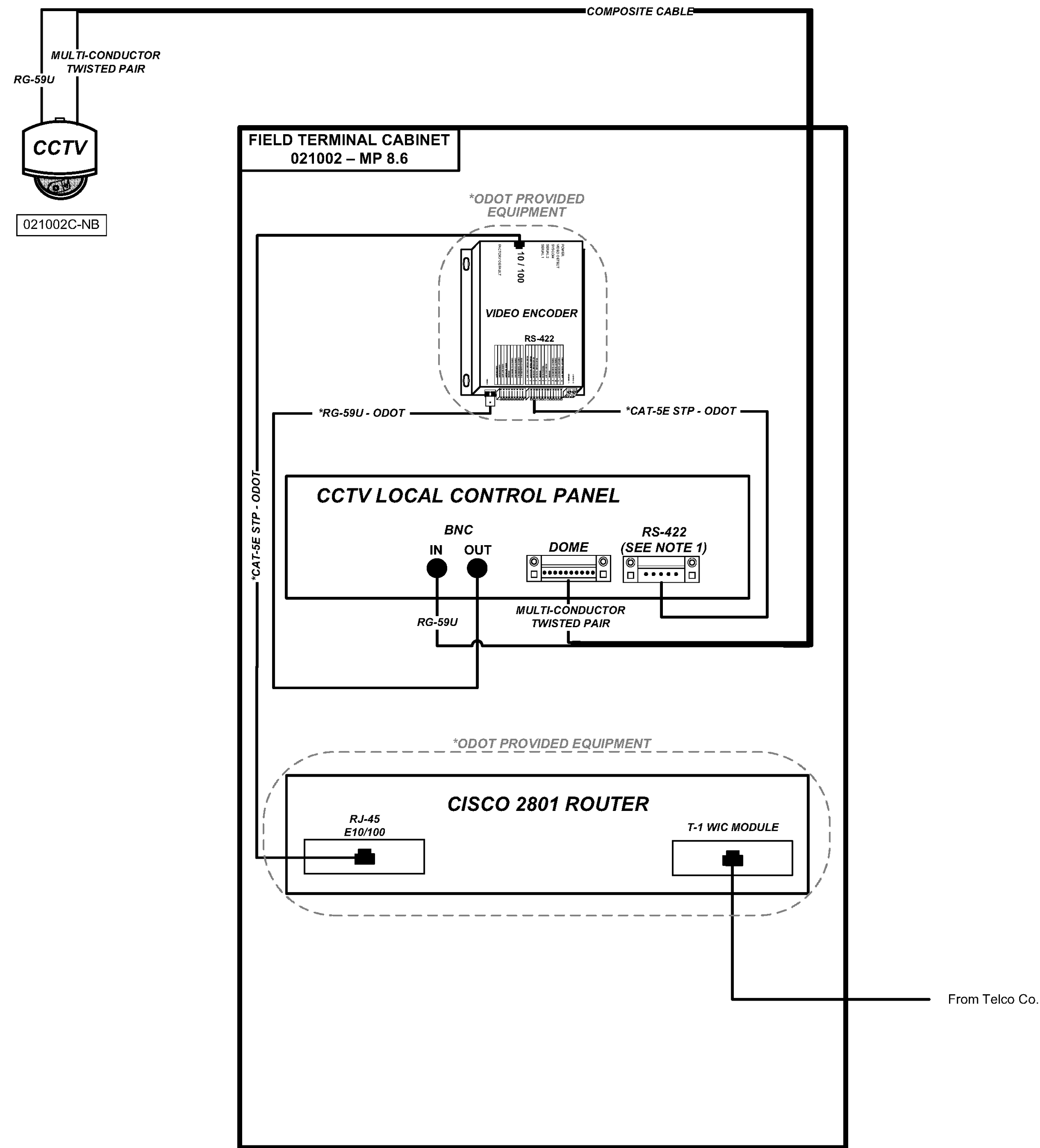


FIELD TERMINAL CABINET  
008030 - MP 9.81



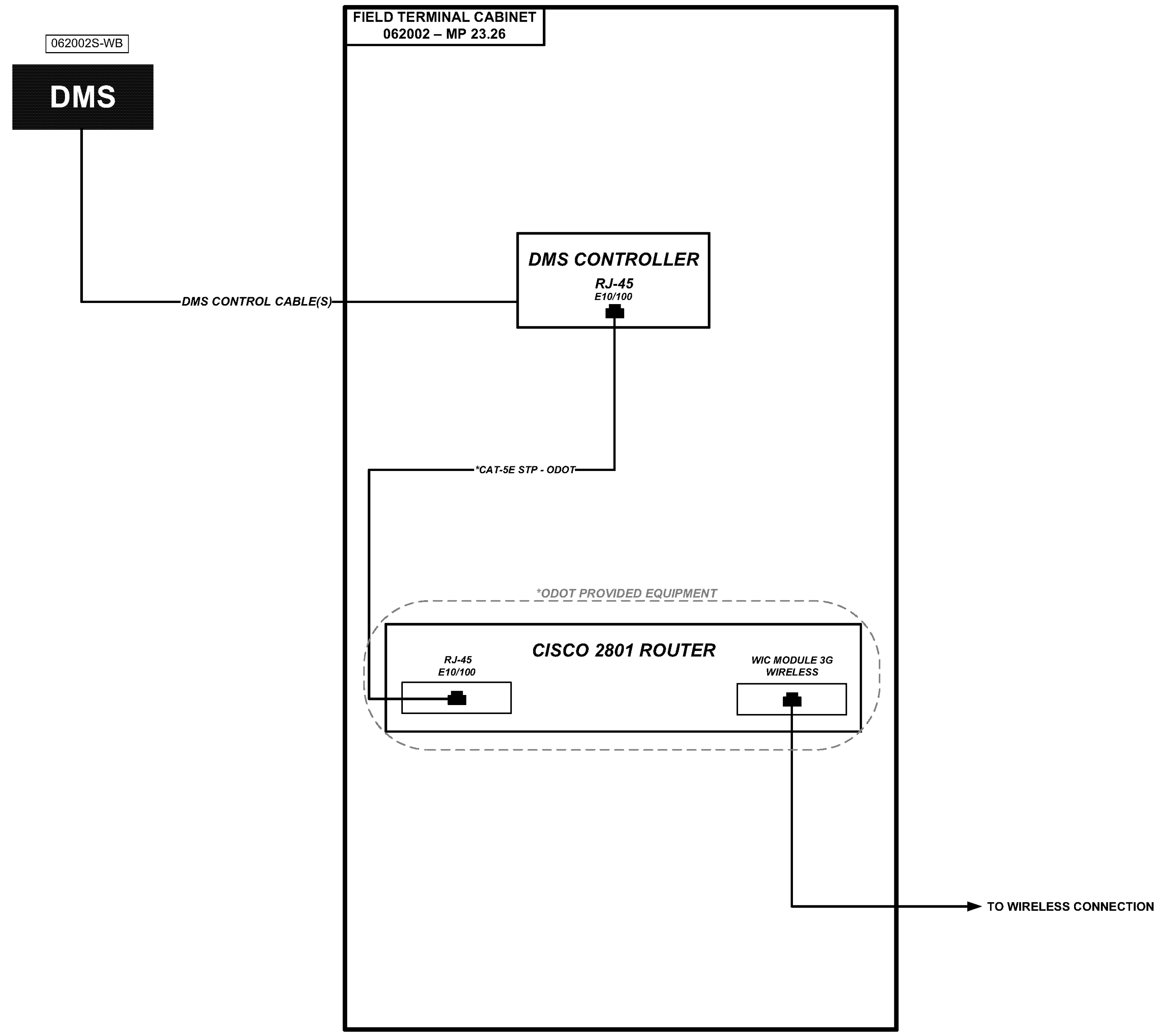






KEY	
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	CCTV CAMERA DEVICE NUMBER FOLLOWED BY 'C'
	DYNAMIC MESSAGE SIGN DEVICE NUMBER FOLLOWED BY 'S'
	EQUIPMENT CONNECTION FIBER OPTIC JUMPER
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	EXISTING/PROPOSED BARE FIBER LEFT COILED IN SPLICE TRAY
	EXISTING/PROPOSED FUSION SPLICE
	CONNECTOR MODULE

- NOTES**
1. TERMINATE CAT-5E STP ON SCREW TERMINALS OF APPROPRIATE SERIAL CONNECTOR HOUSING.
  2. ODOT TO INSTALL ALL CISCO PRODUCTS, TERMINAL SERVERS, UPS, AND ALL ASSOCIATED CABLING THAT CONNECTS ODOT PROVIDED EQUIPMENT.



KEY	
	VEHICLE DETECTOR DEVICE NUMBER FOLLOWED BY 'D'
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- NOTES**
1. TERMINATE CAT-5E STP ON SCREW TERMINALS OF APPROPRIATE SERIAL CONNECTOR HOUSING.
  2. ODOT TO INSTALL ALL CISCO PRODUCTS, TERMINAL SERVERS, UPS, AND ALL ASSOCIATED CABLING THAT COMES FROM ODOT PROVIDED EQUIPMENT.

CALCULATED  
RM  
CHECKED  
JDG

WIRELESS-CDMA CONNECTION DETAIL DRAWING  
FIELD TERMINAL CABINET 062002

STA-SUM ITS