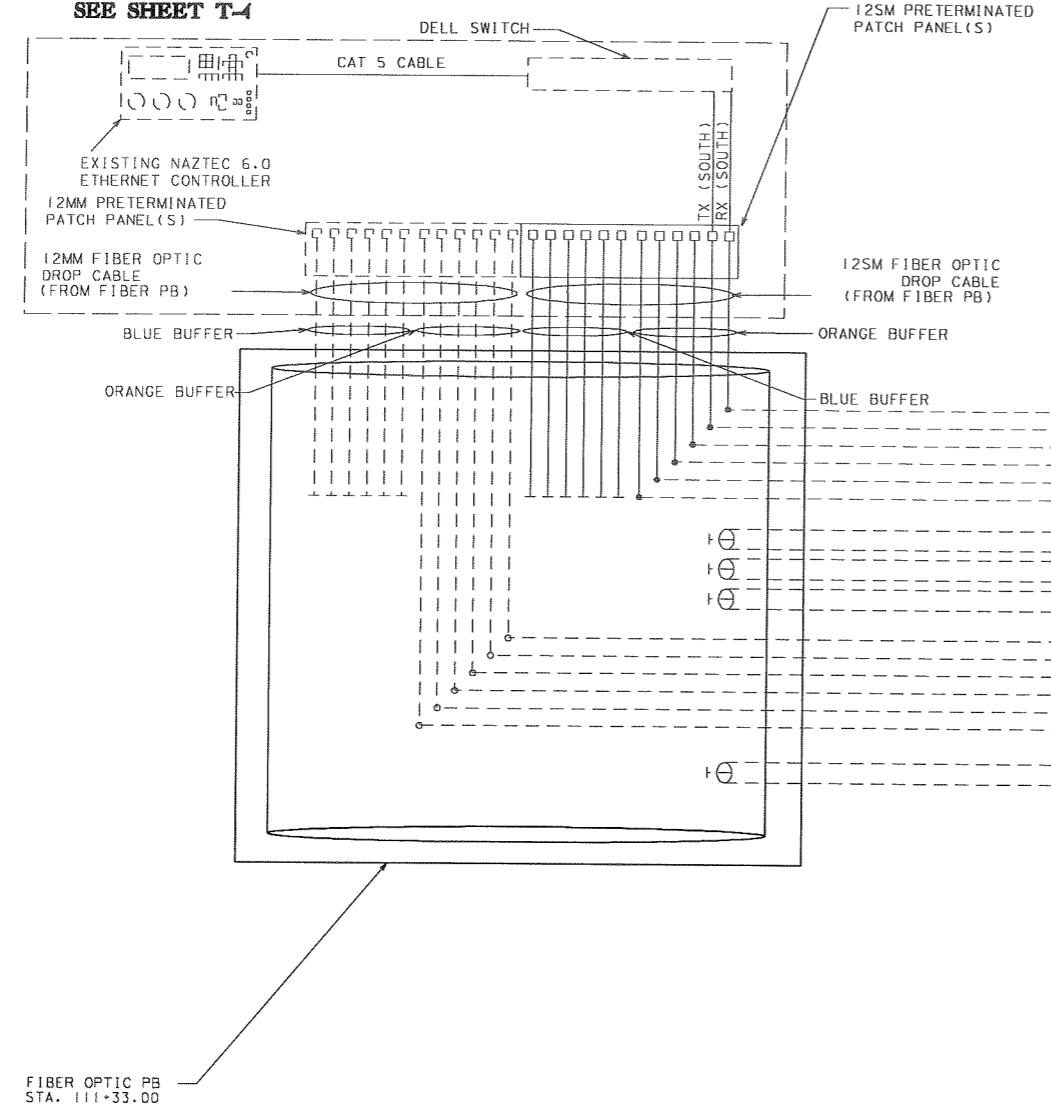
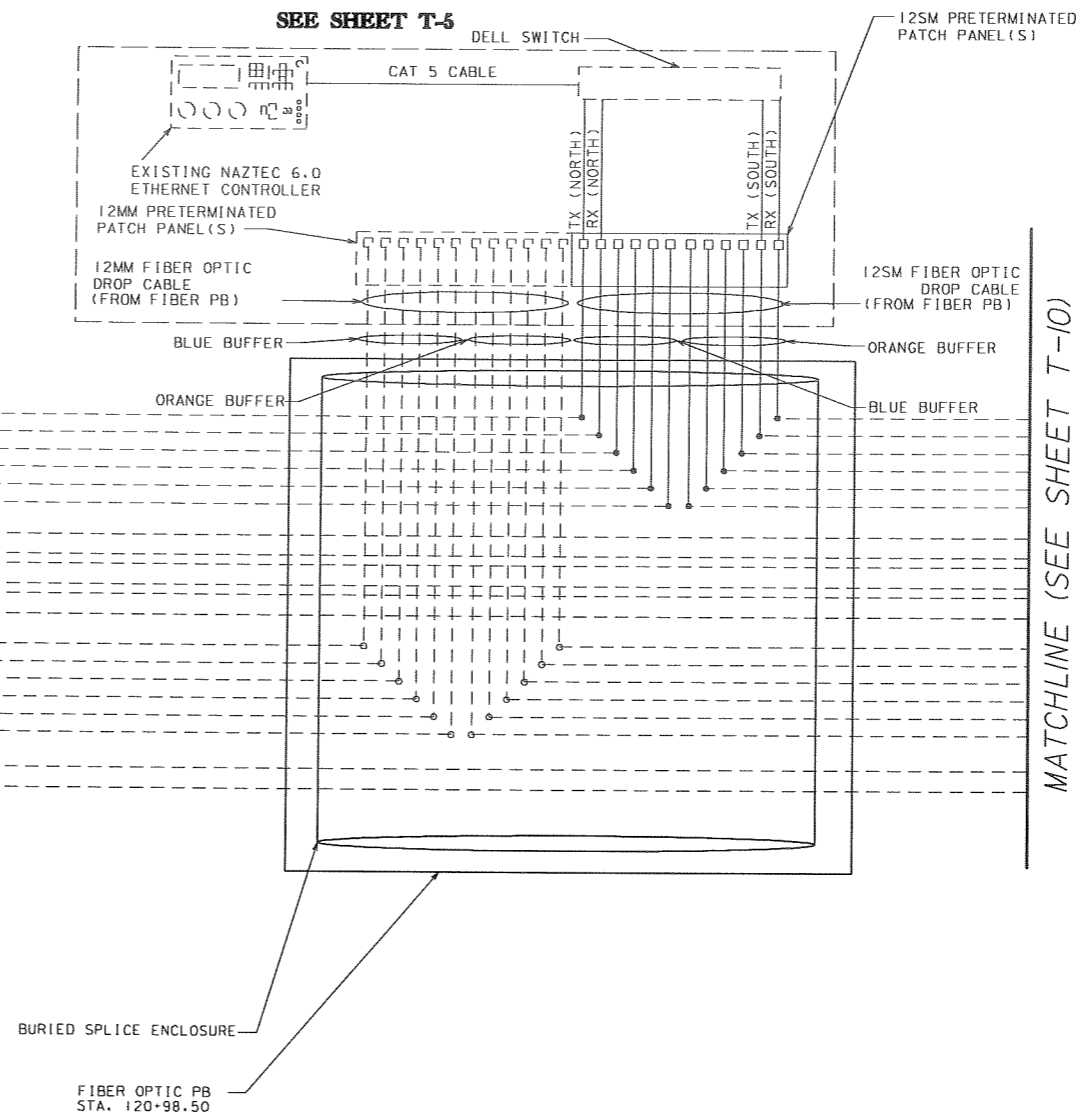


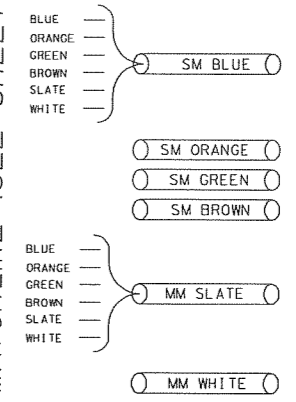
**SIGNAL CABINET
INTERSECTION OF
US 441 & COLLEGE DR
STA. 111+37.50
SEE SHEET T-4**



**SIGNAL CABINET
INTERSECTION OF
US 441 & RADIO RD
STA. 120+93.50
SEE SHEET T-5**



MATCHLINE (SEE SHEET T-10)



LEGEND:

- FUSION SPLICE
- EXISTING FUSION SPLICE
- CONNECTORIZED (PROPOSED)
- ┌ UNTERMINATED FIBER
- SM SINGLE MODE
- MM MULTI MODE

DETAIL NOTES:

1.) 2 PIG TAILS ARE EQUAL TO ONE JUMPER.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

MICHAEL L. CORNEJO, P.E. # 47734
METRIC ENGINEERING, INC.
 2269 LEE ROAD- SUITE 200
 WINTER PARK, FLORIDA 32789
 TEL. (407) 644-1898
 FAX. (407) 644-2376
 FLORIDA CERT. NO. EB-0002294

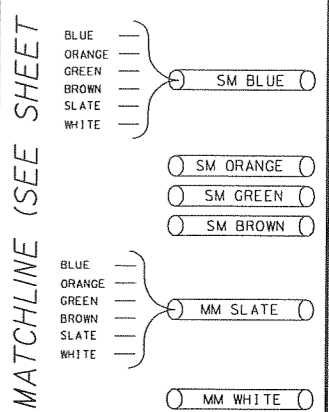
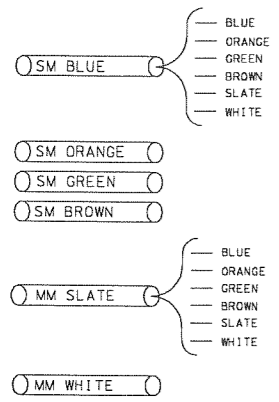
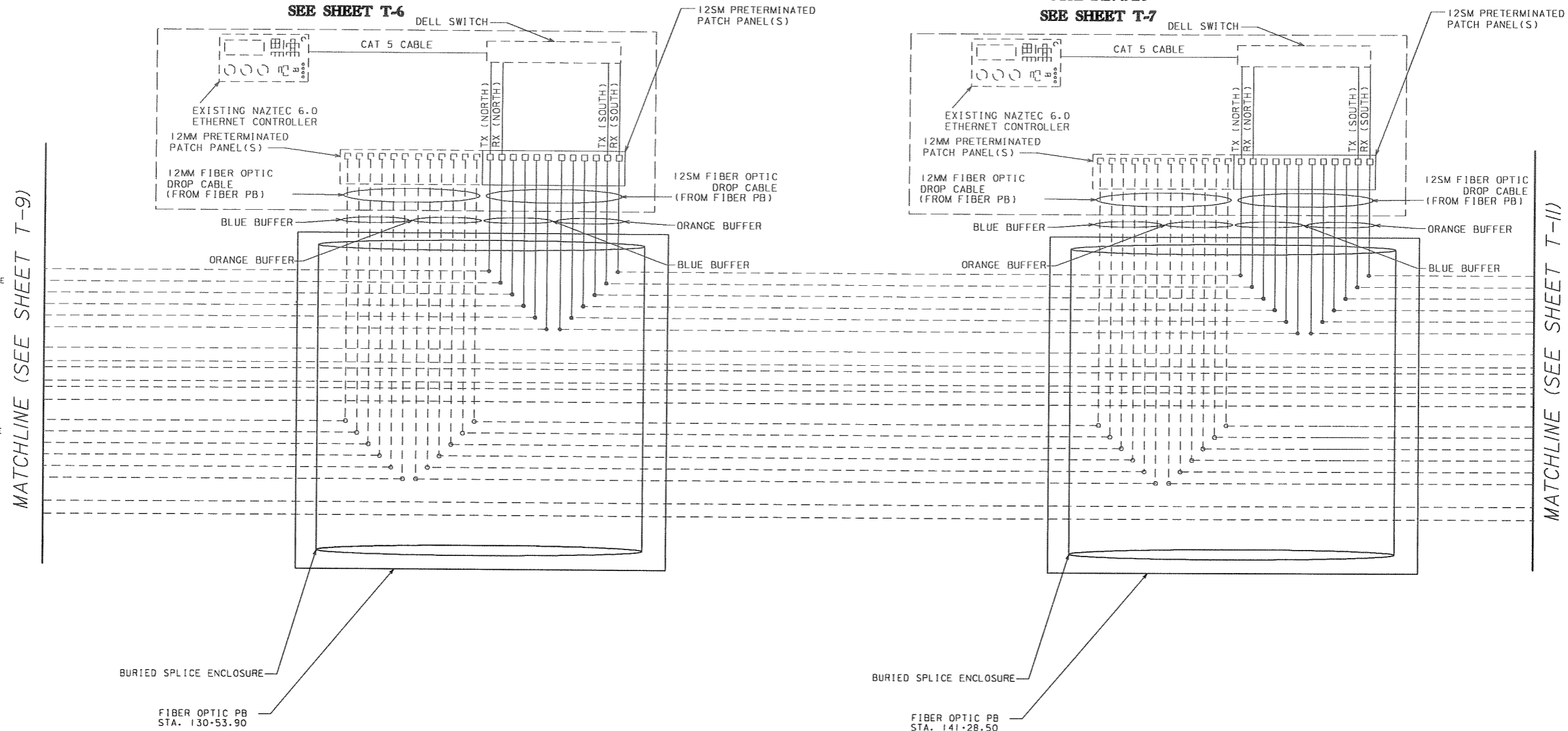
CITY OF LEEBSBURG
DEPARTMENT OF PUBLIC WORKS
 ROAD NO. US 441 COUNTY LAKE

FIBER SPLICING DIAGRAM

SHEET NO. T-9

**SIGNAL CABINET
INTERSECTION OF
US 441 & LAKE SQ MALL
STA. 130+54.00
SEE SHEET T-6**

**SIGNAL CABINET
INTERSECTION OF
US 441 & LAKES BLVD
STA. 141+72.5
SEE SHEET T-7**



LEGEND:

- FUSION SPLICE
- EXISTING FUSION SPLICE
- CONNECTORIZED (PROPOSED)
- UNTERMINATED FIBER
- SM SINGLE MODE
- MM MULTI MODE

DETAIL NOTES:

1.) 2 PIG TAILS ARE EQUAL TO ONE JUMPER.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

MICHAEL L. CORNEJO, P.E. # 47734
METRIC ENGINEERING, INC.
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 WINTER PARK, FLORIDA 32789
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 FLORIDA CERT. NO. EB-0002294

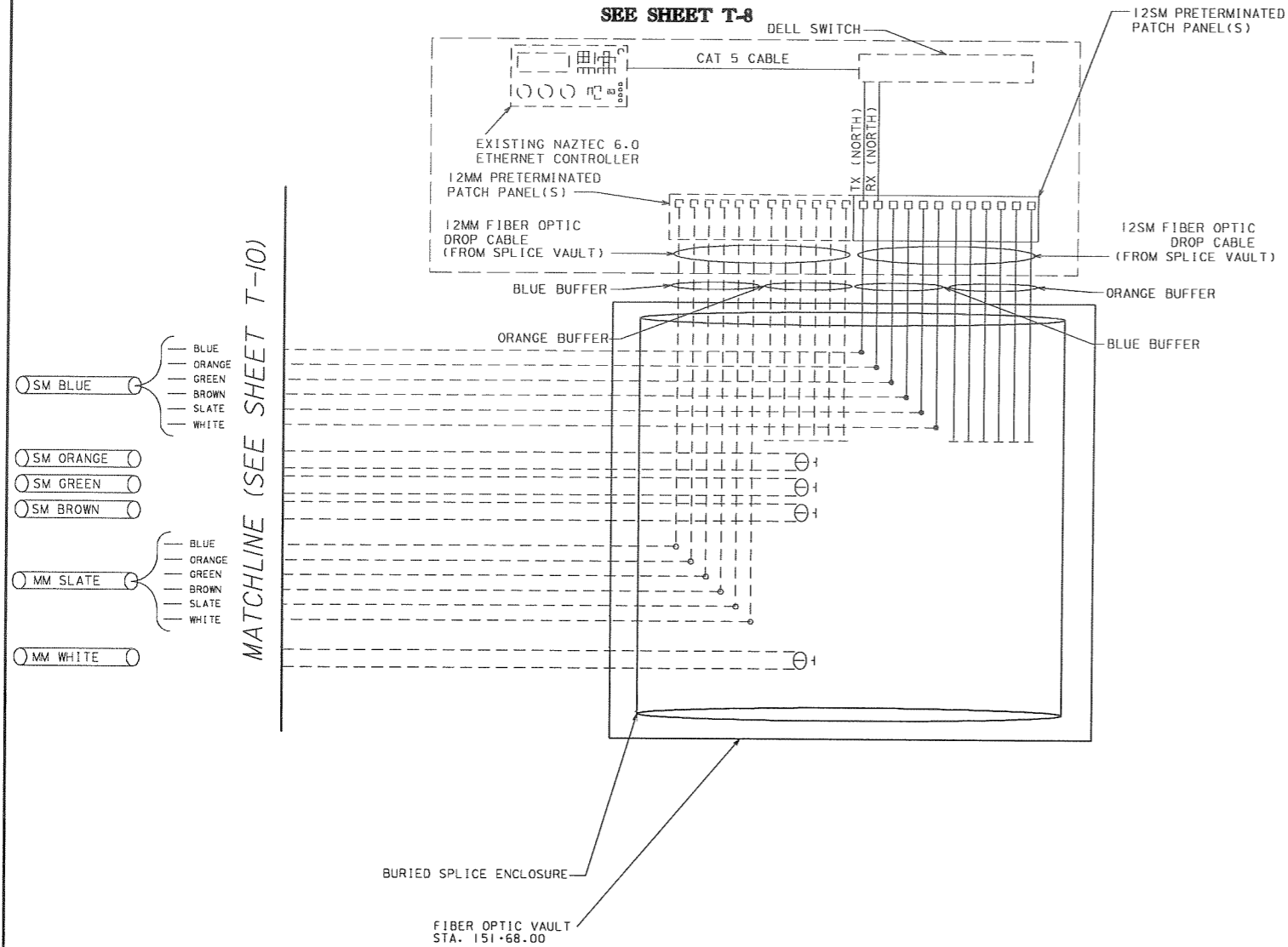
CITY OF LEEBURG
DEPARTMENT OF PUBLIC WORKS

ROAD NO. **US 441** COUNTY **LAKE**

FIBER SPLICING DIAGRAM

SHEET NO.
T-10

**SIGNAL CABINET
INTERSECTION OF
US 441 & CR 473
STA. 151+85.00
SEE SHEET T-8**

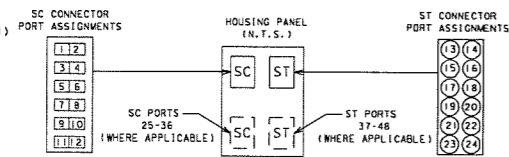


LEGEND:

- FUSION SPLICE
- EXISTING FUSION SPLICE
- CONNECTORIZED (PROPOSED)
- ├ UNTERMINATED FIBER
- SM SINGLE MODE
- MM MULTI MODE

DETAIL NOTES:

1.) 2 PIG TAILS ARE EQUAL TO ONE JUMPER.



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



MICHAEL L. CORNEJO, P.E. # 47734
METRIC ENGINEERING, INC.
2269 LEE ROAD - SUITE 200
WINTER PARK, FLORIDA 32789
TEL. (407) 644-1898
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FLORIDA CERT. NO. EB-0002294

**CITY OF LEEBURG
DEPARTMENT OF PUBLIC WORKS**

ROAD NO. COUNTY
US 441 LAKE

FIBER SPLICING DIAGRAM

SHEET NO.

T-11

INTERNALLY ILLUMINATED STREET NAME SIGN REQUIREMENTS

1. 1/8 INCH CLEAR LEXAN AS BACKING.
2. WHITE DIAMOND GRADE VIP SHEETING, 3M SERIES 3990 OR COMPARABLE.
3. GREEN ACRYLIC ELECTRIC CUTTABLE FILM.
4. COLORED LAKE COUNTY LOGO ON WHITE BACKGROUND DESIGNED TO ALLOW LIGHT AND COLORS TO SHOW THROUGH, 14.25 INCHES HIGH, 19.663 INCHES LONG.
5. LAKE COUNTY LOGO SHALL HAVE A 5-YEAR GUARANTEE.
6. LOGO SHALL BE PRINTED WITH 3M TRANSLUCENT INKS UTILIZING ONE OF THE FOLLOWING APPLICATIONS AND SHALL HAVE A 5-YEAR GUARANTEE ON INKS AND VINYL DURABILITY.

APPLICATION 1:

SCOTCHPRINT GRAPHIC FOR TRANSLUCENT LOGOS-
PRINTED ELECTROSTATICALLY

METHOD 1

BASE FILM 8626 ES CLEAR
TRANSFER MEDIA TRIDENT
TONERS 8700/8800
2ND FILM 8628 ES TRANSLUCENT
OVERLAMINATE 3642 GPS MATTE

APPLICATION 2:

SCOTCHPRINT GRAPHIC FOR TRANSLUCENT LOGOS-
PRINTED ON ARIZONA 180 PRINTER

METHOD 2

BASE FILM RG3650-114 CLEAR
INK 3700 OR 6700 SERIES
2ND FILM RG3630-20
OVERLAMINATE 3642 GPS MATTE

APPLICATION 3:

SCOTCHPRINT GRAPHIC FOR TRANSLUCENT LOGOS-
PRINTED ON VUTEK ULTRAVU MODEL 2360 OR
3360 PRINTERS

METHOD 3

BASE FILM 3650-114
INK 2300 SERIES
2ND FILM 1J3630-20
OVERLAMINATE 3642 GPS MATTE

APPLICATION 4:

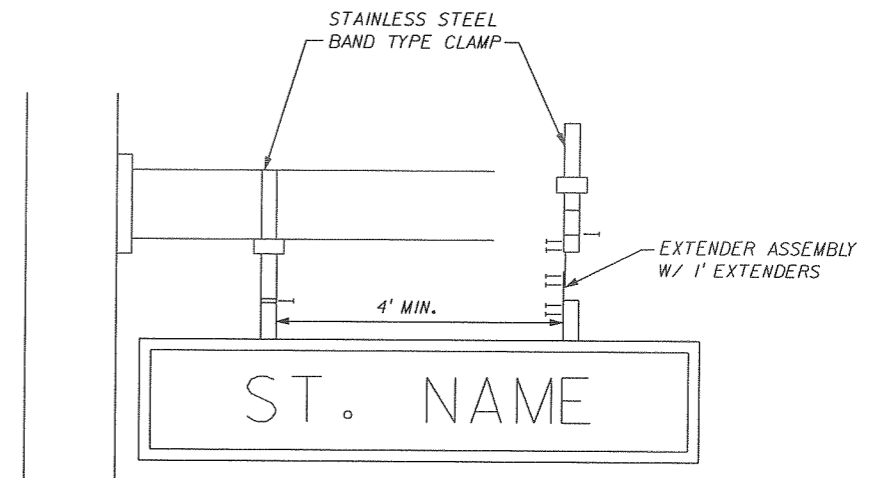
SCOTCHPRINT GRAPHIC FOR TRANSLUCENT LOGOS-
PRINTED ON VUTEK ULTRAVU MODEL 3300/3000 OR
5300/5000 PRINTERS

METHOD 4

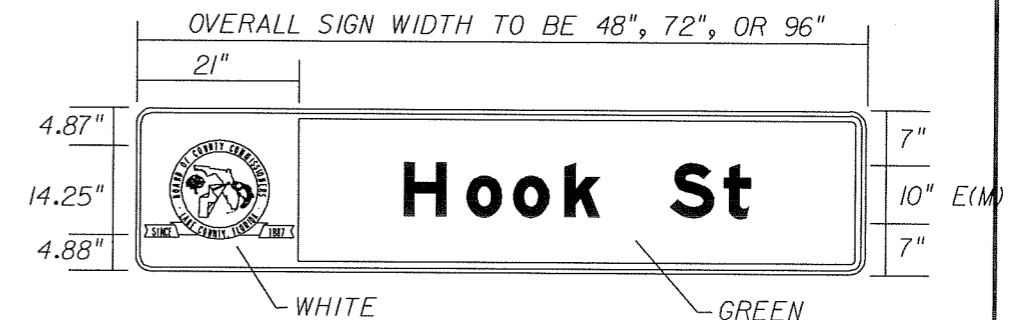
BASE FILM 3650-114
INK 4000 SERIES
2ND FILM 1J3630-20
OVERLAMINATE 3642 GPS MATTE

7. THE DESIRED LETTER SIZE SHALL BE 10" UPPER CASE AND 6" LOWER CASE, TYPE E MODIFIED. SHOULD A SUBJECT STREET NAME USING THIS SIZE AND SERIES NOT FIT ON THE DESIRED PANEL, ONE OF THE FOLLOWING ALTERNATIVES SHOULD BE USED (LISTED IN DECREASING ORDER OF DESIRABILITY).
 - A. 10" UPPER, SERIES D
 - B. 10" UPPER, SERIES C
 - C. 8" UPPER, SERIES D
 - D. 8" UPPER, SERIES C

8. WHEN THE STREET NAME CONSISTS OF ORDINAL NUMBERS THE SUFFIX SHALL BE SERIES C, 1/2 THE HEIGHT OF THE NUMBER, MOUNTED ALONG THE LOWER EXTREME.
9. AVOID ABBREVIATIONS, IF ABSOLUTELY NECESSARY USE THE FOLLOWING: BOULEVARD (BLVD), AVENUE (AVE), TERRACE (TERR), PLACE (PL), DRIVE (DR), ROAD (RD), LANE (LN). ABBREVIATIONS SHOULD BE USED BEFORE FONT AND TEXT SIZES ARE REDUCED.
10. "22/24" STYLE CONTAINER, 22 INCH VIEWABLE SIGN HEIGHT, 24 INCH CONTAINER HEIGHT.
11. PHOTO CELL SHALL BE INSTALLED IN THE SIGNAL CABINET WITH A 2 INCH PLEXIGLAS WINDOW
12. A "HANDS OFF PHOTO TEST SWITCH" SHALL BE INSTALLED.
13. THE INTERNALLY ILLUMINATED STREET SIGN SHALL BE INSTALLED ON A SEPARATE BREAKER.
14. SIGN BRACKET AND CLAMP-ON CANTILEVER ARM SHOULD BE INSTALLED 1 FOOT ABOVE MESSENGER CABLE.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING THE MESSAGE WITH THE LOCAL MAINTAINING AGENCY BEFORE FABRICATING THE SIGNS. SHOP DRAWINGS WILL BE REQUIRED.



SIGN BRACKET ATTACHMENT DETAIL
TWO POINT CLAMP-ON CANTILEVER ARM
SIGN MOUNTING ASSEMBLY DETAIL



SEE LAKE COUNTY SUPPLEMENT SPECIFICATION NO. 699-1
(INTERNALLY ILLUMINATED STREET NAME SIGN)



LAKE COUNTY
PUBLIC WORKS DEPARTMENT
STANDARD SPECIFICATIONS

INTERNALLY ILLUMINATED
STREET NAME SIGN

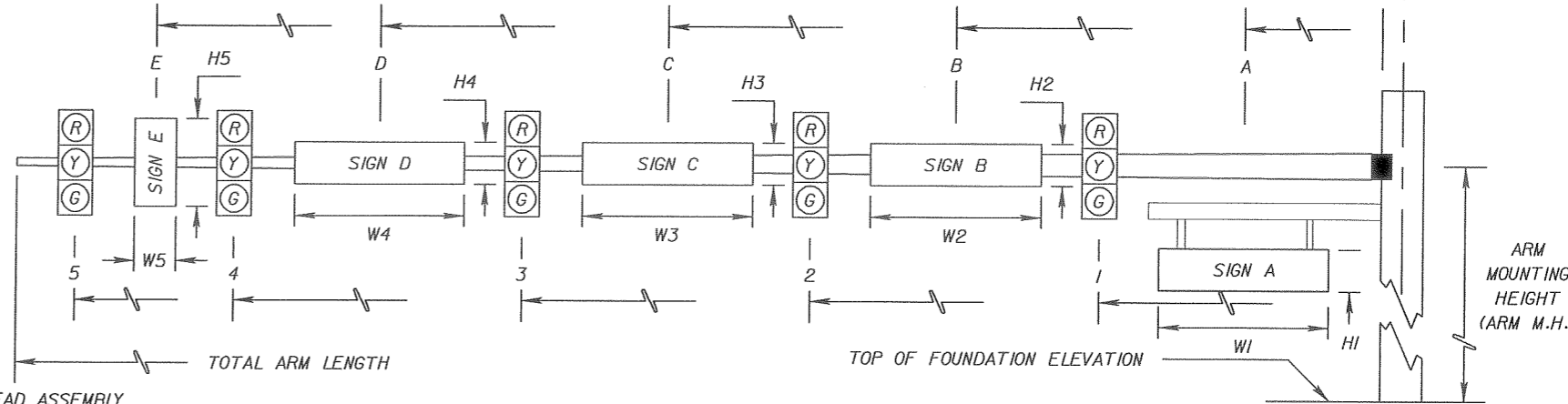
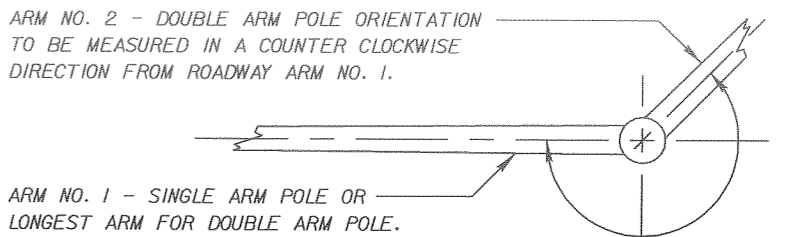
SHEET
NO.

\$FILE\$ \$DATE\$ \$TIME\$ \$USER\$ \$DATE\$ \$TIME\$

\$DATE\$

SPECIAL INSTRUCTIONS

ID NO.	PED. BUTTON	PED. SIGNALS	HANDHOLE LOCATION



* DENOTES NUMBER OF SECTIONS IN SIGNAL HEAD ASSEMBLY
 & DENOTES NUMBER OF SECTIONS IN FUTURE SIGNAL HEAD ASSEMBLY

MAST ARM COLOR SHALL BE HUNTER GREEN

ID NO.	SHEET NO.	LOCATION BY STA.	TOP OF FOUNDATION ROD READING	RDNY ARM NO.	CROWN ROD READING	SIGNAL V/H	BACK PLATES Y/N	PED. SIGNAL Y/N	SIGNAL DATA																TOTAL ARM LENGTH	ARM M.H.	L BETWEEN DUAL ARMS 90/270	SIGN DATA															PAINT COLOR			
									DISTANCE FROM POLE																			DISTANCE FROM POLE / HEIGHT AND WIDTH OF SIGN																		
									1	*	2	*	3	*	4	*	5	*	A	HI	WI	B	H2	W2				C	H3	W3	D	H4	W4	E	H5	W5										
A	T-4	110+18.43	3.12'	1	2.32'	V	N	Y	29'	3	43'	3	58'	3														60'	20.5'		13'	2'	8'												HTR GREEN	
B	T-4	111+22.90	4.14'	1	4.22'	V	N	Y	33'	3	45'	3															60'	20'		12'	2'	6'												HTR GREEN		
C	T-4	110+08.12	2.90'	1	4.10'	V	N	Y	43'	3	54'	3															60'	19'		12'	2'	6'												HTR GREEN		
D	T-4	111+24.88	3.62'	1	2.82'	V	N	Y	29'	3	41'	3	56'	3													60'	20.5'		13'	2'	8'												HTR GREEN		
A	T-5	119+57.85	4.48'	1	3.40'	V	N	Y	41'	3	52'	3	70'	3													70.5'	21'		13'	2'	8'												HTR GREEN		
B	T-5	120+95.83	4.88'	1	5.17'	V	N	Y	35'	3	47'	5															60'	20'		12'	2'	6'												HTR GREEN		
C	T-5	120+80.72	4.62'	1	3.72'	V	N	Y	25'	3	38'	3	55'	3	67'	3											70.5'	20.5'	90	13'	2'	8'												HTR GREEN		
A	T-6	128+58.36	3.26'	1	1.30'	V	N	Y	4'	3	14'	5	25'	3													36'			12'	2'	6'												HTR GREEN		
B	T-6	130+16.41	3.80'	1	3.88'	V	N	Y	35'	3	48'	3	67'	3													70.5'	22'		13'	2'	8'												HTR GREEN		
C	T-6	130+09.24	2.56'	1	1.90'	V	N	Y	43'	3	56'	5															60'	20'		12'	2'	6'												HTR GREEN		
D	T-6	128+96.00	3.60'	1	3.66'	V	N	Y	27'	3	38'	3	57'	3	68'	3											70.5'	20.5'																		HTR GREEN
				1					20'	5	32'	3															46'	20'		12'	2'	6'												HTR GREEN		

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

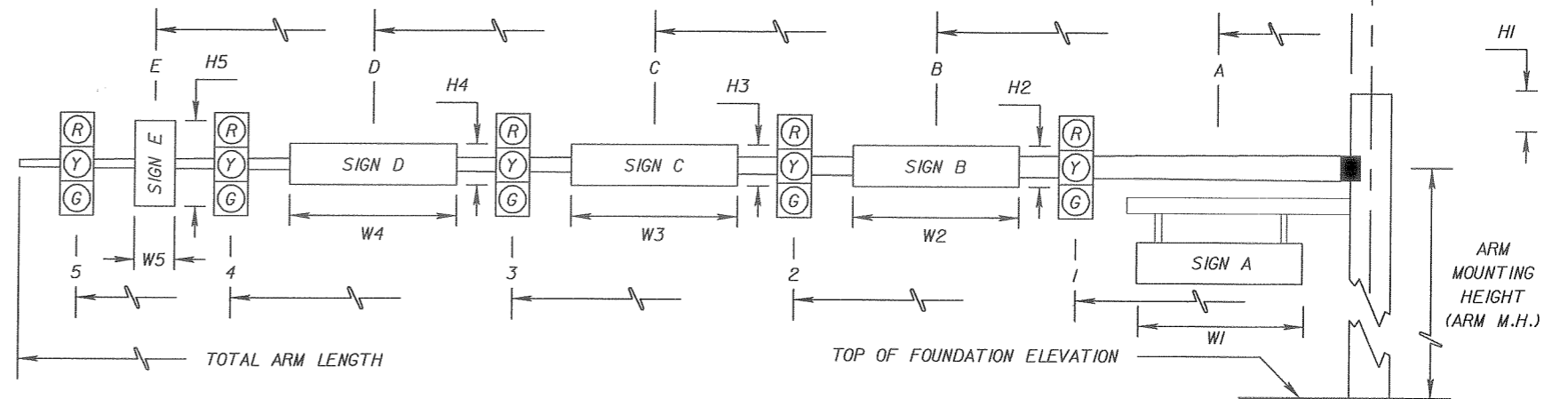
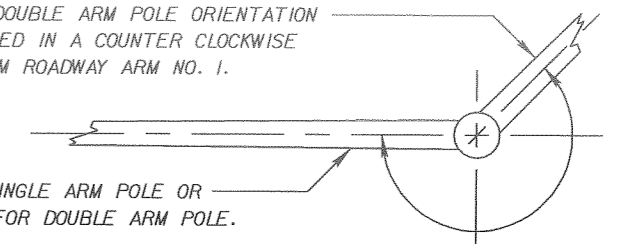
MICHAEL L. CORNEJO, PE# 47734
 METRIC ENGINEERING, INC.
 2269 LEE ROAD - SUITE 200
 WINTER PARK, FLORIDA 32789
 TEL. (407) 644-1898
 FAX. (407) 644-2376
 FLORIDA CERT. NO. EB-0002294

CITY OF LEEBSBURG
DEPARTMENT OF PUBLIC WORKS
 ROAD NO. **US 441** COUNTY **LAKE**

SPECIAL INSTRUCTIONS			
ID NO.	PED. BUTTON	PED. SIGNALS	HANDHOLE LOCATION

ARM NO. 2 - DOUBLE ARM POLE ORIENTATION TO BE MEASURED IN A COUNTER CLOCKWISE DIRECTION FROM ROADWAY ARM NO. 1.

ARM NO. 1 - SINGLE ARM POLE OR LONGEST ARM FOR DOUBLE ARM POLE.



* DENOTES NUMBER OF SECTIONS IN SIGNAL HEAD ASSEMBLY

MAST ARM COLOR SHALL BE HUNTER GREEN

ID NO.	SHEET NO.	LOCATION BY STA.	TOP OF FOUNDATION ROD READING	RDWY ARM NO.	CROWN ROD READING	SIGNAL DATA										TOTAL ARM LENGTH	ARM M.H.	∠ BETWEEN DUAL ARMS 90/270	SIGN DATA															PAINT COLOR			
						SIGNAL V/H	BACK PLATES Y/N	PED. SIGNAL Y/N	DISTANCE FROM POLE										DISTANCE FROM POLE / HEIGHT AND WIDTH OF SIGN																		
									1	*	2	*	3	*	4				*	5	*	A	HI	WI	B	H2	W2	C	H3	W3	D	H4	W4		E	H5	W5
A	T-7	140+03.04	4.88'	1	3.88'	V	N	Y	35'	3	47'	3	67'	3				70.5'	21'															HTR GREEN			
B	T-7	141+32.62	5.48'	1	4.78'	V	N	Y	54'	3	65'	5	76'	3				78'	21'														HTR GREEN				
C	T-7	141+11.58	4.12'	1	4.88'	V	N	Y	29'	3	42'	3	57'	3	69'	3		78'	19'														HTR GREEN				
D	T-7	139+97.06	4.94'	1	5.88'	V	N	Y	28'	3	40'	5	54'	3				60'	19.5'														HTR GREEN				
A	T-8	150+25.14	4.60'	1	2.76'	V	N	Y	30'	3	42'	3	58'	3				60'	22'	90													HTR GREEN				
B	T-8	151+60.47	4.96'	1	3.78'	V	N	Y	57'	5	69'	3						70.5'															HTR GREEN				
C	T-8	150+91.62	5.08'	1	3.78'	V	N	Y	35'	3	47'	3	65'	3	76'	3		78'	21'														HTR GREEN				
				1																																	
				1																																	
				1																																	
				1																																	
				1																																	
				1																																	

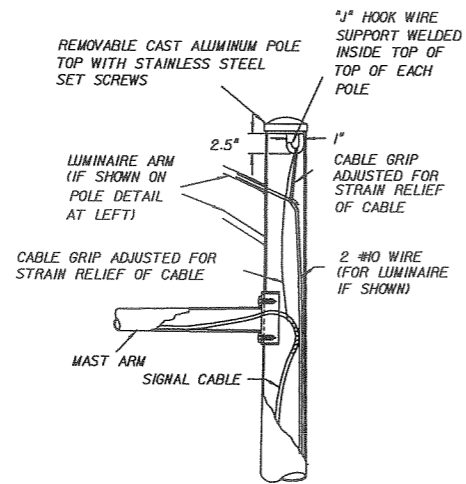
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

MICHAEL L. CORNEJO, PE# 47734
 METRIC ENGINEERING, INC.
 2269 LEE ROAD- SUITE 200
 WINTER PARK, FLORIDA 32789
 TEL. (407) 844-1898
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 FLORIDA CERT. NO. EB-0002294

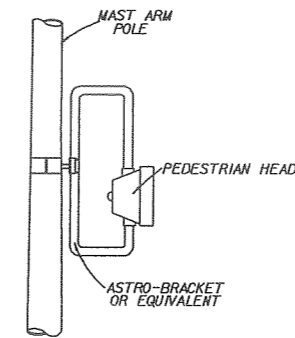
CITY OF LEEBSBURG
DEPARTMENT OF PUBLIC WORKS
 ROAD NO. US 44I COUNTY LAKE

MAST ARM TABULATION

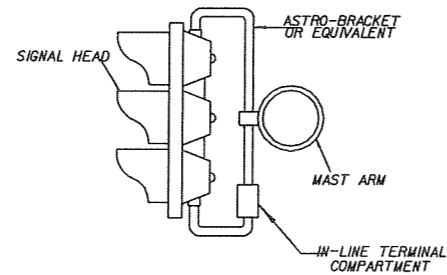
SHEET NO. T-14



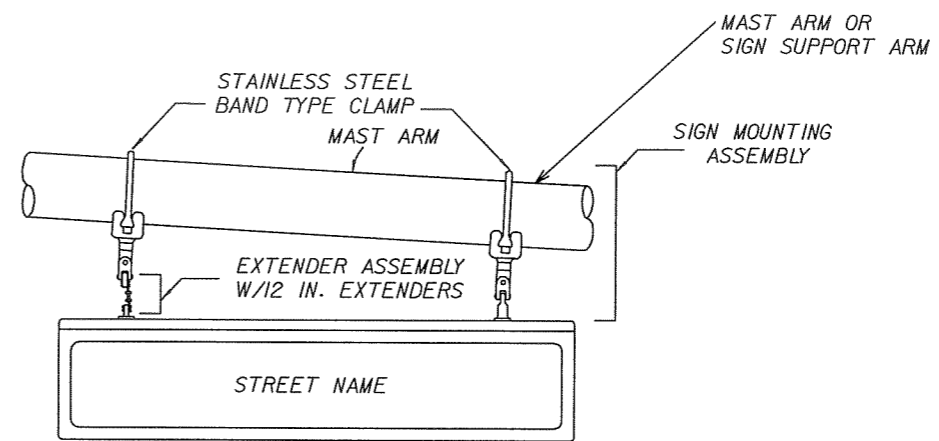
TYPICAL CABLE STRAIN RELIEF DETAIL



PEDESTRIAN HEAD BRACKET ATTACHMENT DETAIL



SIGNAL HEAD BRACKET ATTACHMENT DETAIL



OVERHEAD STREET SIGN (INTERNALLY LIT)

TWO POINT MAST ARM SIGN MOUNTING ASSEMBLY DETAIL

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



MICHAEL L. CORNEJO, PE# 47734
 METRIC ENGINEERING, INC.
 2269 LEE ROAD- SUITE 200
 WINTER PARK, FLORIDA 32789
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 FLORIDA CERT. NO. EB-0002294

CITY OF LEEBSBURG	
DEPARTMENT OF PUBLIC WORKS	
ROAD NO.	COUNTY
US 441	LAKE

US 441 - COLLEGE DR TO CR 473
MAST ARM DETAIL SHEET

SHEET NO.
T-15

STANDARD MAST ARM ASSEMBLIES DESIGN TABLE																		
SHEET NUMBER	STRUCTURE ID NUMBER	ASSEMBLY NUMBERS (1)	FIRST ARM			SECOND ARM			UF (DEG.)	LL (DEG.)	POLE				SPECIAL DRILLED SHAFT DATA (4)			
			ARM TYPE	FAA (2) (FT.)	FBA (2) (IN.)	ARM TYPE	FAA (2) (FT.)	FBA (2) (IN.)			POLE TYPE	UAA (3) (FT.)	UB (FT.)	UCA (3) (IN.)	DA (FT.)	DB (FT.)	RA	RB
T-4	A	C5-R3	C5								R3		20.5					
	B	C5-R3	C5								R3		20					
	C	C5-R3	C5								R3		19					
	D	C5-R3	C5								R3		20.5					
T-5	A	C6-R4	C6								R4		21					
	B	C5-R3	C5								R3		20					
	C	C6-C2-R4	C6			C2					R4		20.5					
T-6	A	C6-R4	C6								R4		22					
	B	C5-R3	C5								R3		20					
	C	C6-R4	C6								R4		20.5					
	D	C3-R2	C3								R2		20					
T-7	A	C6-R4	C6								R4		21					
	B	C7-R6	C7								R6		21					
	C	C7-R6	C7								R6		19					
	D	C5-R3	C5								R3		19.5					

TABLE NOTES:

(1) Assembly Number Legend

Single Arm:

- A* - P* = Arm Type - Pole Type
- B* - Q* = Arm Type - Pole Type
- C* - R* = Arm Type - Pole Type

Double Arm:

- A* - A* - P* = First Arm Type - Second Arm Type - Pole Type
- B* - B* - Q* = First Arm Type - Second Arm Type - Pole Type
- C* - C* - R* = First Arm Type - Second Arm Type - Pole Type

(2) If an entry appears in columns "FAA" and "FBA", a shorter arm is required. This is obtained by removing length from the arm tip. For these cases, the mast arm length shall be shortened from "FA" to "FAA" and the arm tip diameter shall be increased from "FB" to "FBA".

(3) If an entry appears in columns "UAA" and "UCA", a shorter pole is required. This is obtained by removing length from the pole tip. For these cases, the pole height shall be shortened from "UA" to "UAA" and the pole tip diameter shall be increased from "UC" to "UCA".


TABLE NOTES (Continued):

(4) The foundations for Standard Mast Arm Assemblies are pre-designed and are based upon the following conservative soil criteria which covers the great majority of soil types found in Florida. Only complete the "Special Drilled Shaft Data" information if the site conditions dictate drilled shafts in soils of lesser strength properties.

- Classification = Cohesionless (Fine Sand)
- Friction Angle = 30 Degrees (30°)
- Unit Weight = 50 lb./cu. ft. (assumed saturated)

GENERAL NOTES:

- (1) Work this sheet with the Signal Designer's "Mast Arm Tabulation" sheet. See "Mast Arm Tabulation" for special instructions that include non-standard handhole location, paint color, terminal compartment requirement, and pedestrian features.
- (2) Work this sheet with "Design Standards" Index I7740 thru I7745, as necessary.
- (3) Natural slurry shall not be relied upon to prevent caving of soils and maintaining an open hole. Otherwise, drilled shafts shall be constructed in accordance with Section 455.
- (4) See Report of SPT Borings for additional notes.

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	 <p>MICHAEL L. CORNEJO, PE# 47734 METRIC ENGINEERING, INC. 2269 LEE ROAD- SUITE 200 WINTER PARK, FLORIDA 32789 TEL: (407) 644-1898 FAX: (407) 644-2376 FLORIDA CERT. NO. EB-0002294</p>	<p align="center">CITY OF LEESBURG DEPARTMENT OF PUBLIC WORKS</p>		<p align="center">STANDARD MAST ARM ASSEMBLIES DESIGN TABLE</p>	SHEET NO.
							ROAD NO.	COUNTY		T-16
							US 441	LAKE		

STANDARD MAST ARM ASSEMBLIES DESIGN TABLE																		
SHEET NUMBER	STRUCTURE ID NUMBER	ASSEMBLY NUMBERS (1)	FIRST ARM			SECOND ARM			UF (DEG.)	LL (DEG.)	POLE				SPECIAL DRILLED SHAFT DATA (4)			
			ARM TYPE	FAA (2) (FT.)	FBA (2) (IN.)	ARM TYPE	FAA (2) (FT.)	FBA (2) (IN.)			POLE TYPE	UAA (3) (FT.)	UB (FT.)	UCA (3) (IN.)	DA (FT.)	DB (FT.)	RA	RB
T-8	A	C6-C5-R4	C6			C5					R4		22.0					
	B	C7-R6	C7								R6		21					
	C	C3-R2	C3								R2		21.5					

TABLE NOTES:

(1) Assembly Number Legend

Single Arm:

- A* - P* = Arm Type - Pole Type
- B* - Q* = Arm Type - Pole Type
- C* - R* = Arm Type - Pole Type

Double Arm:

- A* - A* - P* = First Arm Type - Second Arm Type - Pole Type
- B* - B* - Q* = First Arm Type - Second Arm Type - Pole Type
- C* - C* - R* = First Arm Type - Second Arm Type - Pole Type

(2) If an entry appears in columns "FAA" and "FBA", a shorter arm is required.

This is obtained by removing length from the arm tip. For these cases, the mast arm length shall be shortened from "FA" to "FAA" and the arm tip diameter shall be increased from "FB" to "FBA".

(3) If an entry appears in columns "UAA" and "UCA", a shorter pole is required.

This is obtained by removing length from the pole tip. For these cases, the pole height shall be shortened from "UA" to "UAA" and the pole tip diameter shall be increased from "UC" to "UCA".

TABLE NOTES (Continued):

(4) The foundations for Standard Mast Arm Assemblies are pre-designed and are based upon the following conservative soil criteria which covers the great majority of soil types found in Florida. Only complete the "Special Drilled Shaft Data" information if the site conditions dictate drilled shafts in soils of lesser strength properties.

- Classification = Cohesionless (Fine Sand)
- Friction Angle = 30 Degrees (30°)
- Unit Weight = 50 lb./cu. ft. (assumed saturated)

GENERAL NOTES:

- (1) Work this sheet with the Signal Designer's "Mast Arm Tabulation" sheet. See "Mast Arm Tabulation" for special instructions that include non-standard handhole location, paint color, terminal compartment requirement, and pedestrian features.
- (2) Work this sheet with "Design Standards" Index 17740 thru 17745, as necessary.
- (3) Natural slurry shall not be relied upon to prevent caving of soils and maintaining an open hole. Otherwise, drilled shafts shall be constructed in accordance with Section 455.
- (4) See Report of SPT Borings for additional notes.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



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- ENGINEERS
- PLANNERS
- SURVEYORS

CITY OF LEEBSBURG
 DEPARTMENT OF PUBLIC WORKS

ROAD NO. COUNTY
 US 441 LAKE

STANDARD MAST ARM
 ASSEMBLIES DESIGN TABLE

SHEET NO.

T-17