

COMPONENTS OF CONTRACT PLANS SET
ITS PLANS

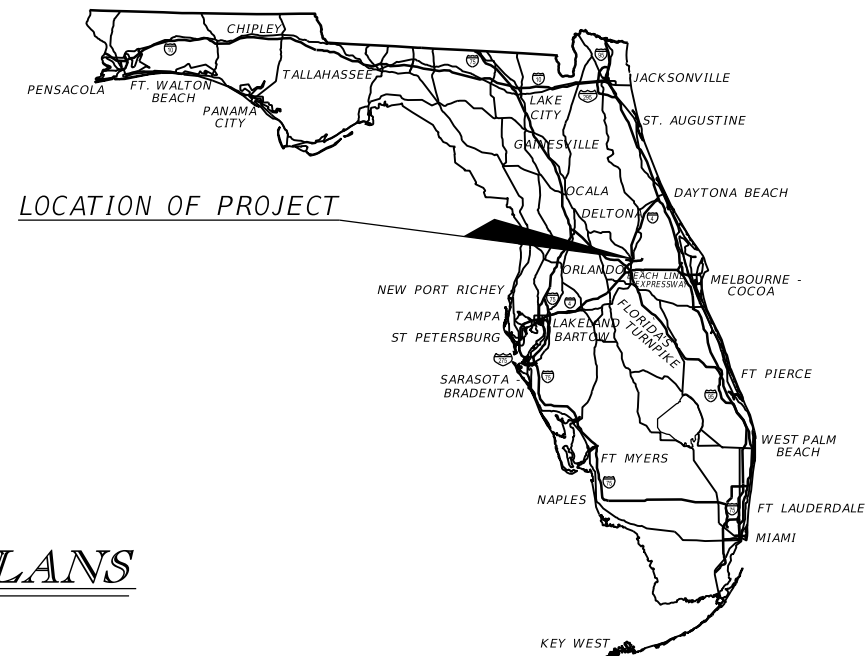
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

FINANCIAL PROJECT ID 435446-1-52-01

ORANGE COUNTY (75002, 75030, 75040, 75090, 75270)
SEMINOLE COUNTY (77030)
STATE ROAD NOS. 15, 46, 426, 435, 482, 527, 600

INTELLIGENT TRANSPORTATION SYSTEMS PLANS



A DETAILED INDEX APPEARS ON THE KEY SHEET OF EACH COMPONENT

INDEX OF ITS PLANS

SHEET NO.	SHEET DESCRIPTION
IT-1	KEY SHEET
IT-1A	NOTES TO REVIEWER
IT-2	SIGNATURE SHEET
IT-3	SUMMARY OF PAY ITEMS
IT-4 - IT-13	SUMMARY OF QUANTITIES
IT-14 - IT-15	GENERAL NOTES
IT-16 - IT-50	PLAN SHEETS
IT-51 - IT-69	ANTENNA MOUNTING DETAIL
IT-70 - IT-71	BUS DETAILS
IT-72 - IT-73	WIRING DIAGRAMS
IT-74	EROSION CONTROL PLAN
IT-75 - IT-76	STORMWATER POLLUTION PREVENTION PLAN

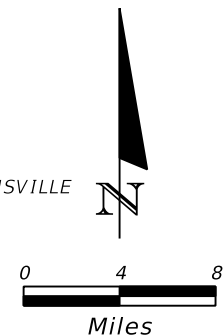
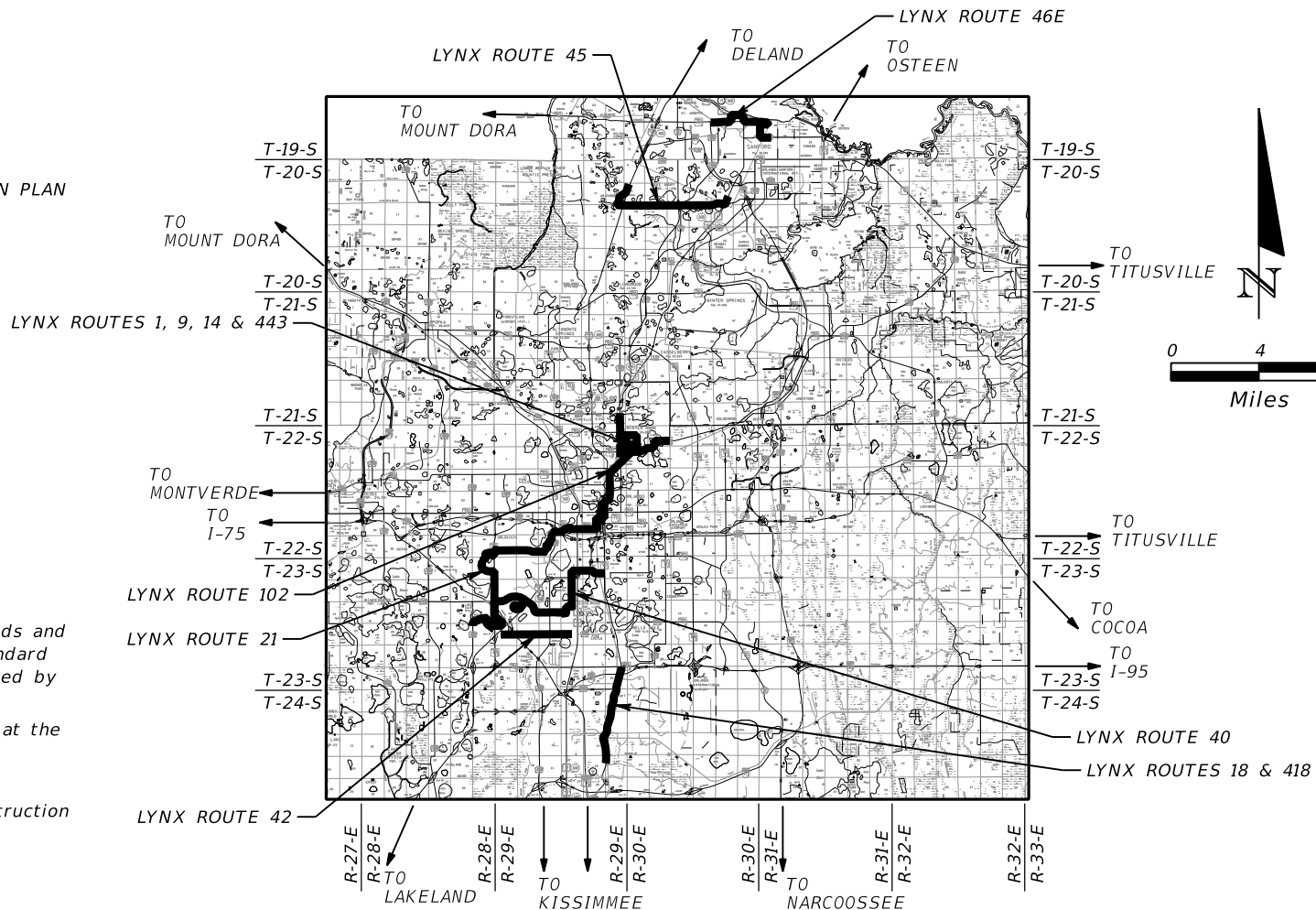
LIST OF REVISED INDEX DRAWINGS

INDEX NO.	SHEET NO
600	1, 4 - 12 OF 12
17841	ALL

GOVERNING STANDARDS AND SPECIFICATIONS:
Florida Department of Transportation, 2015 Design Standards and revised Index Drawings as appended herein, and 2015 Standard Specifications for Road and Bridge Construction, as amended by Contract Documents.

For Design Standards click on the "Design Standards" link at the following web site:
<http://www.dot.state.fl.us/rddesign/DesignStandards>

For the Standard Specifications for Road and Bridge Construction click on the "Specifications" link at the following web site:
<http://www.dot.state.fl.us/specificationsoffice/StandardSpecifications>



ITS SHOP DRAWINGS TO BE SUBMITTED TO:

MICHAEL L. CORNEJO, P.E.
METRIC ENGINEERING, INC.
615 CRESCENT EXECUTIVE CT, SUITE 524
LAKE MARY, FL 32746

PLANS PREPARED BY:

METRIC ENGINEERING, INC.
615 CRESCENT EXECUTIVE CT, SUITE 524
LAKE MARY, FLORIDA 32746
TEL. (407) 644-1898
FAX. (407) 644-2376
FLORIDA CERT. NO. EB-0002294
VENDOR NO. F-59-1685550
CONTRACT NO. C-9420

NOTE: THE SCALE OF THESE PLANS MAY HAVE CHANGED DUE TO REPRODUCTION.

DATE: 3-17-15

PROJECT LENGTH IS BASED ON Q OF CONSTRUCTION

LENGTH OF PROJECT		
	LINEAR FEET	MILES
ROADWAY	N/A	N/A
NET LENGTH OF PROJECT	N/A	N/A
EXCEPTIONS	N/A	N/A
GROSS LENGTH OF PROJECT	N/A	N/A

FDOT PROJECT MANAGER: MANNY RODRIGUEZ, P.E.

KEY SHEET REVISIONS	
DATE	DESCRIPTION

INTELLIGENT TRANSPORTATION SYSTEMS PLANS
ENGINEER OF RECORD: MICHAEL L. CORNEJO, P.E.

P.E. NO.: 47734

FISCAL YEAR	SHEET NO.
15	IT-1

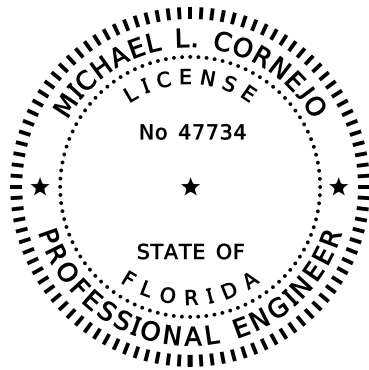
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NOTES TO REVIEWER

1. LYNX IS RESPONSIBLE FOR AVL SOFTWARE MODIFICATION.

REVISIONS				METRIC ENGINEERING, INC. MICHAEL L. CORNEJO, P.E. # 47734 615 CRESCENT EXECUTIVE CT SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION 2294	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			NOTES TO REVIEWER	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		IT-1A
					VARIES	ORANGE SEMINOLE	435446-1-52-01		

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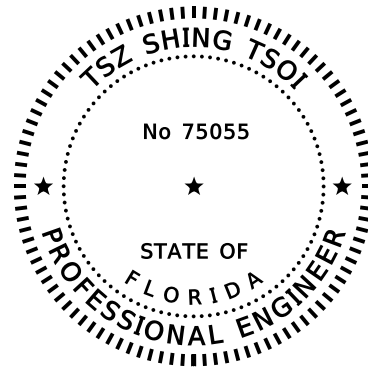


METRIC ENGINEERING, INC.
 615 CRESCENT EXECUTIVE CT
 SUITE 524
 LAKE MARY, FLORIDA 32746
 TEL. (407) 644-1898
 FAX. (407) 644-2376
 CERTIFICATE OF AUTHORIZATION 2294

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.003, F.A.C.

INTELLIGENT TRANSPORTATION SYSTEMS PLANS

SHEET NO.	SHEET DESCRIPTION
IT-1	KEY SHEET
IT-2	SIGNATURE SHEET
IT-3	SUMMARY OF PAY ITEMS
IT-14 - IT-15	GENERAL NOTES
IT-51 - IT-69	ANTENNA MOUNTING DETAILS
IT-70 - IT-71	BUS DETAILS
IT-72 - IT-73	WIRING DIAGRAMS
IT-74	EROSION CONTROL PLAN
IT-75 - IT-76	STORMWATER POLLUTION PREVENTION PLAN



KITTELSON & ASSOCIATES, INC.
 110 E BROWARD BLVD
 SUITE 2410
 FORT LAUDERDALE, FLORIDA 33301
 TEL. (954) 828-1730
 FAX. (954) 828-1787
 CERTIFICATE OF AUTHORIZATION 7524

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.003, F.A.C.

INTELLIGENT TRANSPORTATION SYSTEMS PLANS

SHEET NO.	SHEET DESCRIPTION
IT-2	SIGNATURE SHEET
IT-4 - IT-13	SUMMARY OF QUANTITIES
IT-16 - IT-50	PLAN SHEETS

REVISIONS				METRIC ENGINEERING, INC. MICHAEL L. CORNEJO, P.E. # 47734 615 CRESCENT EXECUTIVE CT SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION 2294	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<i>SIGNATURE SHEET</i>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		IT-2
					VARIES	ORANGE SEMINOLE	435446-1-52-01		

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FLORIDA DEPARTMENT OF TRANSPORTATION
PROJECT SUMMARY OF PAY ITEMS
FOR PROJECT: 435446-1-52-01

LEAD PROJECT : 435446-1-52-01 DISTRICT : 05 COUNTY/SECTION :

PROJECT(S) : 43544615201 COUNTY : ORANGE

0550 SUMMARY OF INTELLIGENT TRANSPORTATION SYSTEM

SPC	ALT	ITEM NUMBER	ITEM DESCRIPTION	UNIT	43544615201	QUANTITY TOTAL
		0101- 1-	MOBILIZATION 43544615201	LS	1.000	1.000
		0102- 1-	MAINTENANCE OF TRAFFIC 43544615201	(LS)	1.000	1.000
		0102- 14-	TRAFFIC CONTROL OFFICER	MH	16.000	16.000
		0102- 60-	WORK ZONE SIGN	ED	553.000	553.000
		0102- 74- 1	CHANNELIZING DEVICE- TYPES I, II, DI, VP, DRUM, OR LCD	ED	1580.000	1580.000
		0102- 76-	ARROW BOARD / ADVANCE WARNING ARROW PANEL	ED	79.000	79.000
		0102- 77-	HIGH INTENSITY FLASHING LIGHTS, TEMP, TYPE B	ED	395.000	395.000
		0102- 99-	PORTABLE CHANGEABLE MESSAGE SIGN, TEMPORARY	ED	79.000	79.000
		0630- 2- 11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	120.000	120.000
		0630- 2- 14	CONDUIT, FURNISH & INSTALL, ABOVEGROUND	LF	70.000	70.000
		0633- 2- 31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA	24.000	24.000
		0633- 3- 46	FIBER OPTIC CONNECTION HARDWARE, RELOCATE PATCH PANEL- FIELD TERMINATED	EA	1.000	1.000
T		0633- 8- 1	MULTI-CONDUCTOR COMMUNICATION CABLE, FURNISH & INSTALL	LF	9895.000	9895.000
		0660- 1-110	LOOP DETECTOR INDUCTIVE, F&I, TYPE 10	EA	5.000	5.000
T		0663- 1-120	SIGNAL PRIORITY AND PREEMPTION SYSTEM, FURNISH AND INSTALL, GPS, COMPLETE SYSTEM	EA	99.000	99.000
T		0663- 1-121	SIGNAL PRIORITY AND PREEMPTION SYSTEM, FURNISH AND INSTALL, GPS, REPLACE CABINET ELECTRONICS	EA	35.000	35.000
T		0663- 1-129	SIGNAL PRIORITY AND PREEMPTION SYSTEM, FURNISH AND INSTALL, GPS, EMITTER FOR BUS	EA	83.000	83.000
		0670- 5-111	TRAFFIC CONTROLLER ASSEMBLY, F&I, NEMA, 1 PREEMPTION	AS	2.000	2.000
P		0670- 5-400	TRAFFIC CONTROLLER ASSEMBLY, MODIFY	AS	1.000	1.000
		0670- 5-600	TRAFFIC CONTROLLER ASSEMBLY, REMOVE CONTROLLER WITH CABINET	AS	2.000	2.000
		0671- 2- 11	TRAFFIC CONTROLLER WITHOUT CABINET, F&I IN EXISTING CABINET , NEMA	EA	35.000	35.000
D		0671- 2- 40	TRAFFIC CONTROLLER, MODIFY	EA	97.000	97.000
		0671- 2- 60	TRAFFIC CONTROLLER, REMOVE- CABINET TO REMAIN	EA	35.000	35.000
		0684- 1- 1	MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL	EA	10.000	10.000
		0684- 1- 4	MANAGED FIELD ETHERNET SWITCH, RELOCATE	EA	1.000	1.000
T		0685-128-	SYSTEM AUXILIARIES, FURNISH & INSTALL, INTERFACE PANEL	EA	4.000	4.000
		0999- 25-	INITIAL CONTINGENCY AMOUNT, DO NOT BID 43544615201	LS	1.000	1.000

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

METRIC ENGINEERING, INC.
MICHAEL L. CORNEJO, P.E. # 47734
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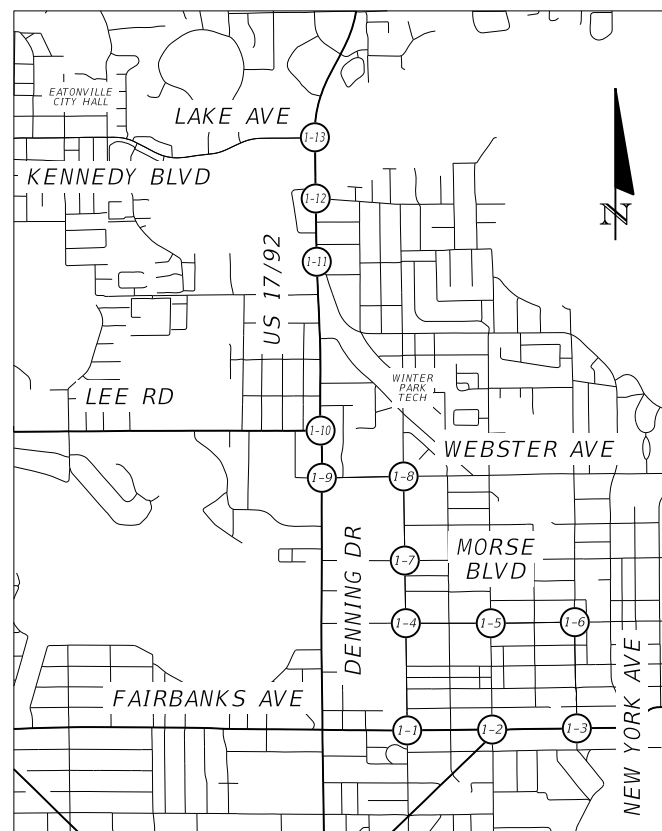
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
VARIES	ORANGE SEMINOLE	435446-1-52-01

SUMMARY OF PAY ITEMS

SHEET
NO.
IT-3

LYNX ROUTES 1 AND 9

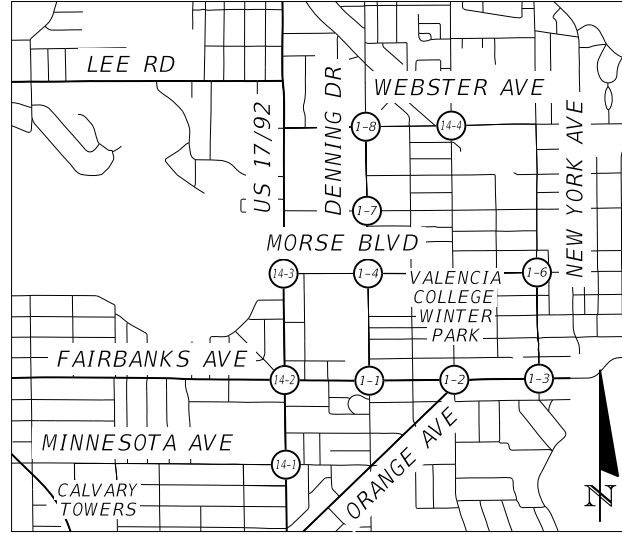


ROUTE	INTERSECTION NUMBER	INTERSECTION NAME	PLAN SHEET NUMBER	DETAIL SHEET NUMBER	SIGNAL MAINTAINING AGENCY	CONTROLLER TYPE	CONDUIT, FURNISH & INSTALL, OPEN TRENCH - LF (630-2-11)	CONDUIT, FURNISH & INSTALL, ABOVEGROUND - LF (630-2-14)	FIBER OPTIC CONNECTION, INSTALL, SPLICE - EA (633-2-31)	FIBER OPTIC CONNECTION HARDWARE, RELOCATE, PATCH PANEL- FIELD TERMINATED - EA (633-3-46)	MULTI-CONDUCTOR COMMUNICATION CABLE, FURNISH & INSTALL - LF (633-8-1)	LOOP DETECTOR INDUCTIVE, F&I, TYPE 10 - EA (660-1-110)	SIGNAL PRIORITY AND PREEMPTION SYSTEM, FURNISH AND INSTALL, GPS, COMPLETE SYSTEM - EA (663-1-120)	SIGNAL PRIORITY AND PREEMPTION SYSTEM, FURNISH AND INSTALL, GPS, REPLACE CABINET ELECTRONICS - EA (663-1-121)	TRAFFIC CONTROLLER ASSEMBLY, F&I, NEMA, 1 PREEMPTION - AS (670-5-111)	TRAFFIC CONTROLLER ASSEMBLY, MODIFY - AS (670-5-400)	TRAFFIC CONTROLLER ASSEMBLY, REMOVE CONTROLLER WITH CABINET - AS (670-5-600)	TRAFFIC CONTROLLER WITHOUT CABINET, F&I IN EXISTING CABINET, NEMA - EA (671-2-11)	TRAFFIC CONTROLLER, MODIFY - EA (671-2-40)	TRAFFIC CONTROLLER, REMOVE- CABINET TO REMAIN - EA (671-2-60)	MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL - EA (684-1-1)	MANAGED FIELD ETHERNET SWITCH, RELOCATE - EA (684-1-4)	SYSTEM AUXILIARIES, FURNISH & INSTALL, INTERFACE PANEL - EA (685-128)	
1/9	1-1	DENNING DRIVE @ FAIRBANKS AVENUE	IT-16	IT-57, IT-72	WINTER PARK	EAGLE				85		1							1					
1/9	1-2	FAIRBANKS AVE @ PENNSYLVANIA AVE/N ORANGE AVE	IT-16	IT-54, IT-72	WINTER PARK	SIEMENS				235		1							1					
1/9	1-3	FAIRBANKS AVENUE @ NEW YORK AVENUE	IT-16	IT-59, IT-72	WINTER PARK	SIEMENS				85		1							1					
1/9	1-4	DENNING DRIVE @ MORSE BOULEVARD	IT-16	IT-52, IT-72	WINTER PARK	EAGLE				115		1							1					
1/9	1-5	MORSE BOULEVARD @ PENNSYLVANIA AVENUE	IT-17	IT-68, IT-71	WINTER PARK	EAGLE				225		1						1		1				
1/9	1-6	NEW YORK AVENUE @ MORSE BOULEVARD	IT-17	IT-61, IT-72	WINTER PARK	EAGLE				35		1							1					1
1/9	1-7	DENNING DRIVE @ CANTON AVENUE	IT-17	IT-51, IT-72	WINTER PARK	EAGLE				85		1							1					
1/9	1-8	WEBSTER AVENUE @ DENNING DRIVE	IT-17	IT-53, IT-72	WINTER PARK	EAGLE				85		1							1					
1/9	1-9	US 17/92 @ WEBSTER AVENUE	IT-18	IT-60, IT-72	WINTER PARK	SIEMENS				85		1							1					
1/9	1-10	US 17/92 @ LEE ROAD	IT-18	IT-60, IT-72	WINTER PARK	SIEMENS				85		1							1					
1/9	1-11	US 17/92 @ PARK AVENUE	IT-18	IT-60, IT-72	MAITLAND	EAGLE				85		1							1					
1/9	1-12	US 17/92 @ MAGNOLIA ROAD	IT-18	IT-60, IT-72	MAITLAND	EAGLE				85		1							1					
1/9	1-13	US 17/92 @ LAKE AVENUE/KENNEDY BOULEVARD	IT-19	IT-52, IT-72	MAITLAND	SIEMENS/EAGLE				85		1							1					
TOTAL		PLAN TOTAL FOR ROUTE 1								1375		13						1	12	1			1	
THIS SHEET		FINAL TOTAL FOR ROUTE 1																						

<table border="1"> <thead> <tr> <th colspan="4">REVISIONS</th> </tr> <tr> <th>DATE</th> <th>DESCRIPTION</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				REVISIONS				DATE	DESCRIPTION	DATE	DESCRIPTION					KITTELSON & ASSOCIATES, INC. TSZ SHING TSOI, P.E. # 75055 110 E BROWARD BLVD, SUITE 2410 FORT LAUDERDALE, FLORIDA 33301 TEL: (954) 828-1730 FAX: (954) 828-1787 CERTIFICATION OF AUTHORIZATION 7524			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ROAD NO. COUNTY FINANCIAL PROJECT ID VARIES ORANGE SEMINOLE 435446-1-52-01			SHEET NO. IT-4		
REVISIONS																											
DATE	DESCRIPTION	DATE	DESCRIPTION																								
SUMMARY OF QUANTITIES																											

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LYNX ROUTE 14

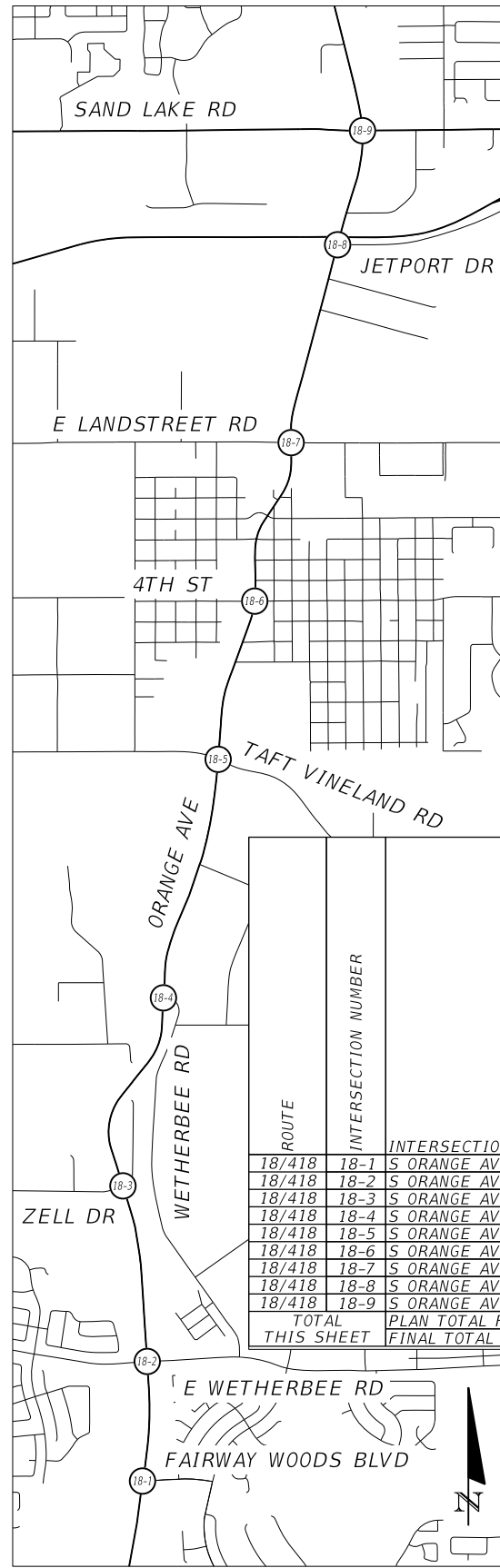


ROUTE	INTERSECTION NUMBER	INTERSECTION NAME	PLAN SHEET NUMBER	DETAIL SHEET NUMBER	SIGNAL MAINTAINING AGENCY	CONTROLLER TYPE	CONDUIT, FURNISH & INSTALL, OPEN TRENCH - LF (630-2-11)	CONDUIT, FURNISH & INSTALL, ABOVEGROUND - LF (630-2-14)	FIBER OPTIC CONNECTION, INSTALL, SPLICE - EA (633-2-31)	FIBER OPTIC CONNECTION HARDWARE, RELOCATE PATCH PANEL- FIELD TERMINATED - EA (633-3-46)	MULTI-CONDUCTOR COMMUNICATION CABLE, FURNISH & INSTALL - LF (633-8-1)	LOOP DETECTOR INDUCTIVE, F&I, TYPE 10 - EA (660-1-110)	SIGNAL PRIORITY AND PREEMPTION SYSTEM, FURNISH AND INSTALL, GPS, COMPLETE SYSTEM - EA (663-1-120)	SIGNAL PRIORITY AND PREEMPTION SYSTEM, FURNISH AND INSTALL, GPS, REPLACE CABINET ELECTRONICS - EA (663-1-121)	TRAFFIC CONTROLLER ASSEMBLY, F&I, NEMA, 1 PREEMPTION - AS (670-5-111)	TRAFFIC CONTROLLER ASSEMBLY, MODIFY - AS (670-5-400)	TRAFFIC CONTROLLER ASSEMBLY, REMOVE CONTROLLER WITH CABINET - AS (670-5-600)	TRAFFIC CONTROLLER WITHOUT CABINET, F&I IN EXISTING CABINET, NEMA - EA (671-2-11)	TRAFFIC CONTROLLER, MODIFY - EA (671-2-40)	TRAFFIC CONTROLLER, REMOVE- CABINET TO REMAIN - EA (671-2-60)	MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL - EA (684-1-1)	MANAGED FIELD ETHERNET SWITCH, RELOCATE - EA (684-1-4)	SYSTEM AUXILIARIES, FURNISH & INSTALL, INTERFACE PANEL - EA (685-128)	
14	14-1	US 17/92 @ MINNESOTA AVE	IT-19	IT-66, IT-72	WINTER PARK	EAGLE				85			1											
14	14-2	US 17/92 @ FAIRBANKS AVE	IT-19	IT-66, IT-72	WINTER PARK	EAGLE				135			1						1	1				
14	1-1	DENNING DRIVE @ FAIRBANKS AVENUE	IT-16	SEE ROUTE 1																				
14	1-2	FAIRBANKS AVENUE @ PENNSYLVANIA AVENUE	IT-16	SEE ROUTE 1																				
14	1-3	FAIRBANKS AVENUE @ NEW YORK AVENUE	IT-16	SEE ROUTE 1																				
14	14-3	US 17/92 @ MORSE BOULEVARD	IT-19	IT-66, IT-72	WINTER PARK	EAGLE				85			1						1	1				
14	1-4	DENNING DRIVE @ MORSE BOULEVARD	IT-16	SEE ROUTE 1																				
14	1-6	NEW YORK AVENUE @ MORSE BOULEVARD	IT-17	SEE ROUTE 1																				
14	1-7	DENNING DRIVE @ CANTON AVENUE	IT-17	SEE ROUTE 1																				
14	1-8	WEBSTER AVENUE @ DENNING DRIVE	IT-17	SEE ROUTE 1																				
14	14-4	WEBSTER AVENUE @ PENNSYLVANIA AVENUE	IT-20	IT-56, IT-72	WINTER PARK	SIEMENS				85			1						1					1
TOTAL THIS SHEET		PLAN TOTAL FOR ROUTE 14								390			4						2	2	2			1

REVISIONS				KITTELSON & ASSOCIATES, INC. TSZ SHING TSOI, P.E. # 75055 110 E BROWARD BLVD, SUITE 2410 FORT LAUDERDALE, FLORIDA 33301 TEL: (954) 828-1730 FAX: (954) 828-1787 CERTIFICATION OF AUTHORIZATION 7524	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. SUMMARY OF QUANTITIES IT-5
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					VARIES	ORANGE SEMINOLE	435446-1-52-01	

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LYNX ROUTES 18 AND 418

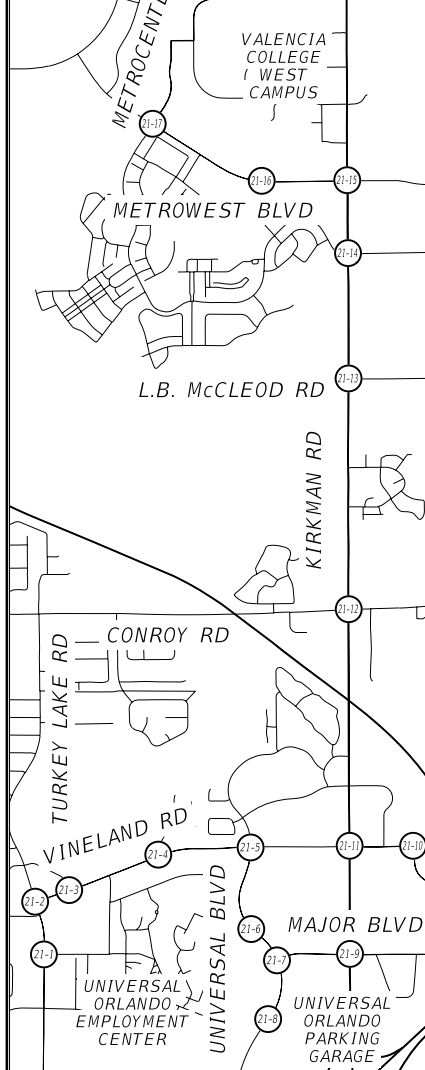
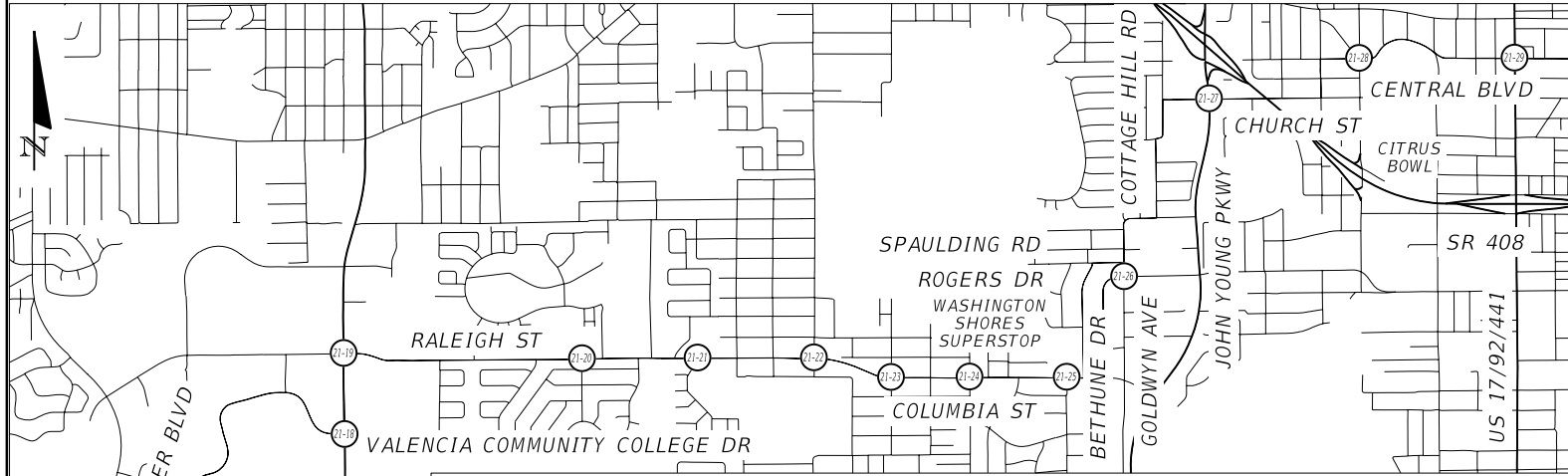


ROUTE	INTERSECTION NUMBER	INTERSECTION NAME	PLAN SHEET NUMBER	DETAIL SHEET NUMBER	SIGNAL MAINTAINING AGENCY	CONTROLLER TYPE	CONDUIT, FURNISH & INSTALL, OPEN TRENCH - LF (630-2-11)	CONDUIT, FURNISH & INSTALL, ABOVEGROUND - LF (630-2-14)	FIBER OPTIC CONNECTION, INSTALL, SPLICE - EA (633-2-31)	FIBER OPTIC CONNECTION HARDWARE, RELOCATE PATCH PANEL- FIELD TERMINATED - EA (633-3-46)	MULTI-CONDUCTOR COMMUNICATION CABLE, FURNISH & INSTALL - LF (633-8-1)	LOOP DETECTOR INDUCTIVE, F&I, TYPE 10 - EA (660-1-110)	SIGNAL PRIORITY AND PREEMPTION SYSTEM, FURNISH AND INSTALL, GPS, COMPLETE SYSTEM - EA (663-1-120)	SIGNAL PRIORITY AND PREEMPTION SYSTEM, FURNISH AND INSTALL, GPS, REPLACE CABINET ELECTRONICS - EA (663-1-121)	TRAFFIC CONTROLLER ASSEMBLY, F&I, NEMA, 1 PREEMPTION - AS (670-5-111)	TRAFFIC CONTROLLER ASSEMBLY, MODIFY - AS (670-5-400)	TRAFFIC CONTROLLER ASSEMBLY, REMOVE CONTROLLER WITH CABINET - AS (670-5-600)	TRAFFIC CONTROLLER WITHOUT CABINET, F&I IN EXISTING CABINET, NEMA - EA (671-2-11)	TRAFFIC CONTROLLER, MODIFY - EA (671-2-40)	TRAFFIC CONTROLLER, REMOVE- CABINET TO REMAIN - EA (671-2-60)	MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL - EA (684-1-1)	MANAGED FIELD ETHERNET SWITCH, RELOCATE - EA (684-1-4)	SYSTEM AUXILIARIES, FURNISH & INSTALL, INTERFACE PANEL - EA (685-128)	
18/418	18-1	S ORANGE AVENUE @ FAIRWAY WOODS BOULEVARD	IT-20	IT-52, IT-72	ORANGE COUNTY	EAGLE				135			1											
18/418	18-2	S ORANGE AVENUE @ E. WETHERBEE ROAD	IT-20	IT-52, IT-72	ORANGE COUNTY	EAGLE				85			1											
18/418	18-3	S ORANGE AVENUE @ ZELL DRIVE	IT-20	IT-52, IT-72	ORANGE COUNTY	EAGLE				85			1											
18/418	18-4	S ORANGE AVENUE @ WETHERBEE ROAD	IT-21	IT-52, IT-72	ORANGE COUNTY	EAGLE				85			1											
18/418	18-5	S ORANGE AVENUE @ TAFT VINELAND ROAD	IT-21	IT-69, IT-71	ORLANDO	NAZTEC							1											
18/418	18-6	S ORANGE AVENUE @ 4TH STREET	IT-21	IT-60, IT-72	ORANGE COUNTY	EAGLE				85			1											
18/418	18-7	S ORANGE AVENUE @ E. LANDSTREET ROAD	IT-21	IT-52, IT-72	ORANGE COUNTY	EAGLE				85			1											
18/418	18-8	S ORANGE AVENUE @ JETPORT DRIVE	IT-22	IT-62, IT-72	ORANGE COUNTY	EAGLE	50	35		105			1											
18/418	18-9	S ORANGE AVENUE @ SAND LAKE ROAD/MCCOY ROAD	IT-22	IT-57, IT-72	ORANGE COUNTY	EAGLE				85			1											
TOTAL THIS SHEET		PLAN TOTAL FOR ROUTE 18					50	35		750			9											
		FINAL TOTAL FOR ROUTE 18																						

<table border="1"> <thead> <tr> <th colspan="2">REVISIONS</th> </tr> <tr> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> </tbody> </table>				REVISIONS		DATE	DESCRIPTION			KITTELSON & ASSOCIATES, INC. TSZ SHING TSOI, P.E. # 75055 110 E BROWARD BLVD, SUITE 2410 FORT LAUDERDALE, FLORIDA 33301 TEL: (954) 828-1730 FAX: (954) 828-1787 CERTIFICATION OF AUTHORIZATION 7524	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SUMMARY OF QUANTITIES	SHEET NO. IT-6
REVISIONS															
DATE	DESCRIPTION														
		ROAD NO.	COUNTY	FINANCIAL PROJECT ID											
		VARIES	ORANGE SEMINOLE	435446-1-52-01											

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LYNX ROUTE 21



ROUTE	INTERSECTION NUMBER	INTERSECTION NAME	PLAN SHEET NUMBER	DETAIL SHEET NUMBER	SIGNAL MAINTAINING AGENCY	CONTROLLER TYPE	CONDUIT, FURNISH & INSTALL, OPEN TRENCH - LF (630-2-11)	CONDUIT, FURNISH & INSTALL, ABOVEGROUND - LF (630-2-14)	FIBER OPTIC CONNECTION, INSTALL, SPLICE - EA (633-2-31)	FIBER OPTIC CONNECTION HARDWARE, RELOCATE PATCH PANEL- FIELD TERMINATED - EA (633-3-46)	MULTI-CONDUCTOR COMMUNICATION CABLE, FURNISH & INSTALL - LF (633-8-1)	LOOP DETECTOR INDUCTIVE, F&I, TYPE 10 - EA (660-1-110)	SIGNAL PRIORITY AND PREEMPTION SYSTEM, FURNISH AND INSTALL, GPS, COMPLETE SYSTEM - EA (663-1-120)	SIGNAL PRIORITY AND PREEMPTION SYSTEM, FURNISH AND INSTALL, GPS, REPLACE CABINET, ELECTRONICS - EA (663-1-121)	TRAFFIC CONTROLLER ASSEMBLY, F&I, NEMA, 1 PREEMPTION - AS (670-5-111)	TRAFFIC CONTROLLER ASSEMBLY, MODIFY - AS (670-5-400)	TRAFFIC CONTROLLER ASSEMBLY, REMOVE CONTROLLER WITH CABINET - AS (670-5-600)	TRAFFIC CONTROLLER WITHOUT CABINET, F&I IN EXISTING CABINET, NEMA - EA (671-2-11)	TRAFFIC CONTROLLER, MODIFY - EA (671-2-40)	TRAFFIC CONTROLLER, REMOVE-CABINET TO REMAIN - EA (671-2-60)	MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL - EA (684-1-1)	MANAGED FIELD ETHERNET SWITCH, RELOCATE - EA (684-1-4)	SYSTEM AUXILIARIES, FURNISH & INSTALL, INTERFACE PANEL - EA (685-128)		
21	21-1	TURKEY LAKE ROAD @ UNIVERSAL STUDIO PLAZA	IT-22	IT-72	ORLANDO	NAZTEC																			
21	21-2	TURKEY LAKE ROAD @ VINELAND ROAD	IT-22	IT-71	ORLANDO	NAZTEC																			
21	21-3	VINELAND ROAD @ LAKE CANE DRIVE	IT-23	IT-52, IT-72	ORLANDO	NAZTEC					85		1	1											
21	21-4	VINELAND ROAD @ CHERYL STREET	IT-23	IT-71	ORLANDO	NAZTEC								1											
21	21-5	VINELAND ROAD @ UNIVERSAL BOULEVARD	IT-23	IT-72	ORLANDO	NAZTEC								1											
21	21-6	UNIVERSAL BOULEVARD @ PORTOFINO BAY	IT-23	IT-54, IT-72	ORLANDO	NAZTEC					155		1												
21	21-7	UNIVERSAL BOULEVARD @ MAJOR BOULEVARD	IT-24	IT-72	ORLANDO	NAZTEC								1											
21	21-8	UNIVERSAL BOULEVARD @ PARKING GARAGE	IT-24	IT-51, IT-72	ORLANDO	NAZTEC					85		1												
21	21-9	KIRKMAN ROAD @ MAJOR BOULEVARD	IT-24	IT-69, IT-72	ORLANDO	NAZTEC							1						1						1
21	21-10	VINELAND ROAD @ MAJOR BOULEVARD	IT-24	IT-69, IT-71	ORLANDO	NAZTEC							1						1		1				
21	21-11	KIRKMAN ROAD @ VINELAND ROAD	IT-25	IT-71	ORLANDO	NAZTEC								1						1					
21	21-12	KIRKMAN ROAD @ CONROY ROAD	IT-25	IT-71	ORLANDO	NAZTEC								1						1					
21	21-13	KIRKMAN ROAD @ L.B. MCCLEOD ROAD	IT-25	IT-71	ORLANDO	NAZTEC								1						1					
21	21-14	KIRKMAN ROAD @ ARNOLD PALMER DRIVE	IT-25	IT-69, IT-71	ORLANDO	NAZTEC								1						1					
21	21-15	KIRKMAN ROAD @ METROWEST BOULEVARD	IT-26	IT-71	ORLANDO	NAZTEC								1						1					
21	21-16	METROWEST BOULEVARD @ WILSHIRE DRIVE	IT-26	IT-69, IT-71	ORLANDO	NAZTEC							1						1		1				
21	21-17	METROWEST BOULEVARD @ METROCENTER BOULEVARD	IT-26	IT-69, IT-71	ORLANDO	NAZTEC							1						1		1				
21	21-18	KIRKMAN ROAD @ VALENCIA COMMUNITY COLLEGE DRIVE (NORTH)	IT-26	IT-69, IT-71	ORLANDO	NAZTEC							1						1		1				
21	21-19	KIRKMAN ROAD @ RALEIGH STREET	IT-27	IT-69, IT-71	ORLANDO	NAZTEC							1						1		1				
21	21-20	RALEIGH STREET @ DEEROCK DRIVE	IT-27	IT-69, IT-72	ORLANDO	NAZTEC							1						1		1				1
21	21-21	RALEIGH STREET @ KOZART STREET	IT-27	IT-69, IT-71	ORLANDO	NAZTEC							1						1		1				
21	21-22	RALEIGH STREET @ IVEY LANE	IT-27	IT-69, IT-72	ORLANDO	NAZTEC			24	1		4	1					1		1					1
21	21-23	COLUMBIA STREET @ AMAROS AVENUE	IT-28	IT-69, IT-72	ORLANDO	NAZTEC							1						1		1				
21	21-24	COLUMBIA STREET @ BRUTON BOULEVARD	IT-28	IT-69, IT-72	ORLANDO	NAZTEC							1						1		1				
21	21-25	COLUMBIA STREET @ MAPLE BUTLER AVENUE	IT-28	IT-69, IT-72	ORLANDO	NAZTEC							1						1		1				
21	21-26	GOLDWYN AVENUE @ ORANGE CENTER BOULEVARD	IT-28	IT-72	ORLANDO	NAZTEC								1					1		1				1
21	21-27	CHURCH STREET @ JOHN YOUNG PARKWAY	IT-29	IT-52, IT-72	ORANGE COUNTY	EAGLE					115		1						1		1				1
21	21-28	CENTRAL BOULEVARD @ TAMPA AVENUE	IT-29	IT-69, IT-72	ORLANDO	NAZTEC							1						1		1				1
21	21-29	CENTRAL BOULEVARD @ ORANGE BLOSSOM TRAIL	IT-29	IT-71	ORLANDO	NAZTEC								1					1		1				2
	TOTAL THIS SHEET	PLAN TOTAL FOR ROUTE 21 FINAL TOTAL FOR ROUTE 21							24	1	440	4	18	11	1		1	6	22	6		1		2	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KITTELSON & ASSOCIATES, INC.
 TSZ SHING TSOI, P.E. # 75055
 110 E BROWARD BLVD, SUITE 2410
 FORT LAUDERDALE, FLORIDA 33301
 TEL: (954) 828-1730
 FAX: (954) 828-1787
 CERTIFICATION OF AUTHORIZATION 7524

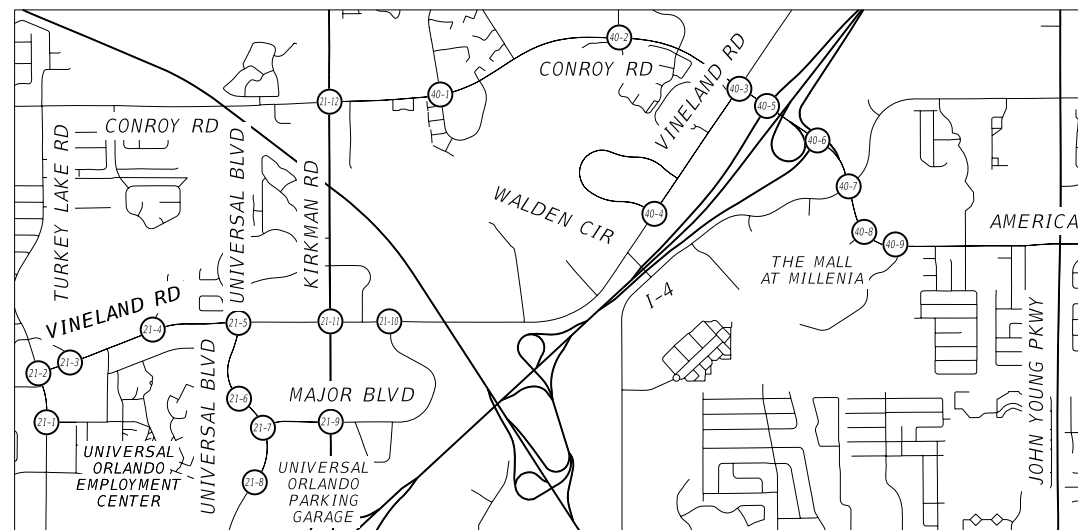
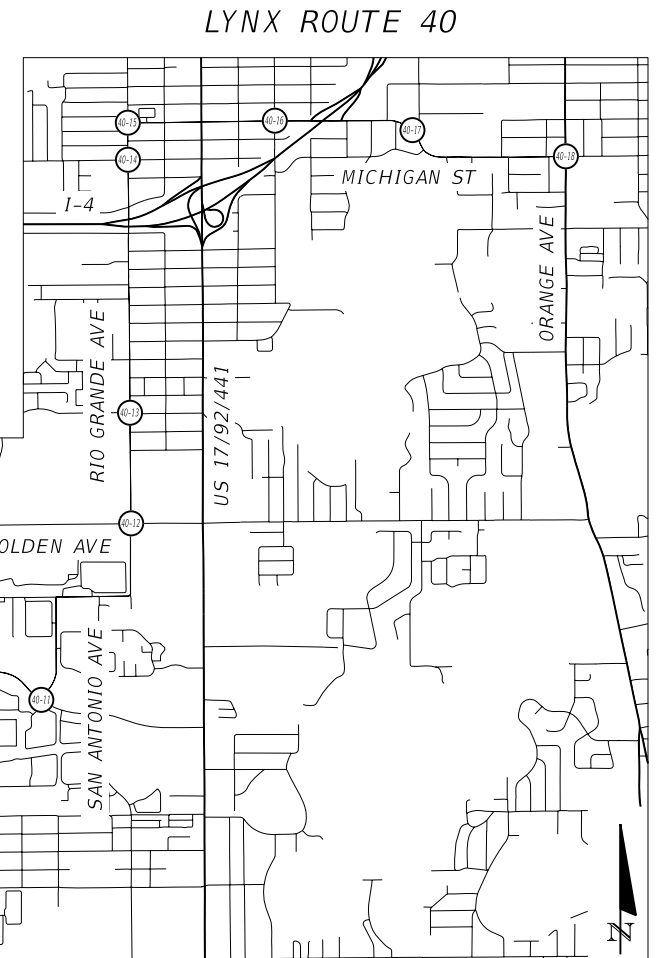
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
VARIES	ORANGE SEMINOLE	435446-1-52-01

SUMMARY OF QUANTITIES	

SHEET NO.
IT-7

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

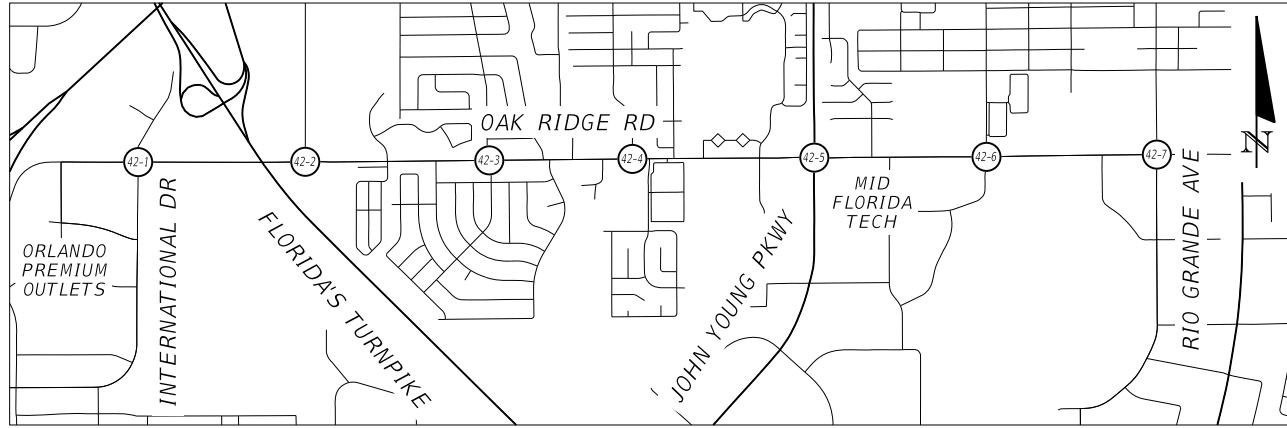
ROUTE	INTERSECTION NUMBER	INTERSECTION NAME	PLAN SHEET NUMBER	DETAIL SHEET NUMBER	SIGNAL MAINTAINING AGENCY	CONTROLLER TYPE	CONDUIT, FURNISH & INSTALL, OPEN TRENCH - LF (630-2-11)	CONDUIT, FURNISH & INSTALL, ABOVEGROUND - LF (630-2-14)	FIBER OPTIC CONNECTION, INSTALL, SPLICE - EA (633-2-31)	FIBER OPTIC CONNECTION HARDWARE, RELOCATE PATCH PANEL - FIELD TERMINATED - EA (633-3-46)	MULTI-CONDUCTOR COMMUNICATION CABLE - FURNISH & INSTALL - LF (633-8-1)	LOOP DETECTOR INDUCTIVE, F&I, TYPE 10 - EA (660-1-110)	SIGNAL PRIORITY AND PREEMPTION SYSTEM, FURNISH AND INSTALL, GPS COMPLETE SYSTEM - EA (663-1-120)	SIGNAL PRIORITY AND PREEMPTION SYSTEM, FURNISH AND INSTALL, GPS, REPLACE CABINET ELECTRONICS - EA (663-1-121)	TRAFFIC CONTROLLER ASSEMBLY, F&I, NEMA, 1 PREEMPTION - AS (670-5-111)	TRAFFIC CONTROLLER ASSEMBLY, MODIFY - AS (670-5-400)	TRAFFIC CONTROLLER ASSEMBLY, REMOVE CONTROLLER WITH CABINET - AS (670-5-600)	TRAFFIC CONTROLLER WITHOUT CABINET, F&I IN EXISTING CABINET, NEMA - EA (671-2-11)	TRAFFIC CONTROLLER, MODIFY - EA (671-2-40)	TRAFFIC CONTROLLER, REMOVE - CABINET TO REMAIN - EA (671-2-60)	MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL - EA (684-1-1)	MANAGED FIELD ETHERNET SWITCH, RELOCATE - EA (684-1-4)	SYSTEM AUXILIARIES, FURNISH & INSTALL, INTERFACE PANEL - EA (685-128)	
40	21-1	TURKEY LAKE ROAD @ UNIVERSAL STUDIO PLAZA	IT-22	SEE ROUTE 21																				
40	21-2	TURKEY LAKE ROAD @ VINELAND ROAD	IT-22	SEE ROUTE 21																				
40	21-3	VINELAND ROAD @ LAKE CANE DRIVE	IT-23	SEE ROUTE 21																				
40	21-4	VINELAND ROAD @ CHERYL STREET	IT-23	SEE ROUTE 21																				
40	21-5	VINELAND ROAD @ UNIVERSAL BOULEVARD	IT-23	SEE ROUTE 21																				
40	21-6	UNIVERSAL BOULEVARD @ PORTOFINO BAY	IT-23	SEE ROUTE 21																				
40	21-7	UNIVERSAL BOULEVARD @ MAJOR BOULEVARD	IT-24	SEE ROUTE 21																				
40	21-8	UNIVERSAL BOULEVARD @ PARKING GARAGE	IT-24	SEE ROUTE 21																				
40	21-9	KIRKMAN ROAD @ MAJOR BOULEVARD	IT-24	SEE ROUTE 21																				
40	21-11	KIRKMAN ROAD @ VINELAND ROAD	IT-25	SEE ROUTE 21																				
40	21-12	KIRKMAN ROAD @ CONROY ROAD	IT-25	SEE ROUTE 21																				
40	40-1	CONROY ROAD @ CYPRESS WOODS DRIVE	IT-29	IT-71	ORLANDO	NAZTEC																		
40	40-2	CONROY ROAD @ PRES BARACK OBAMA PARKWAY	IT-30	IT-71	ORLANDO	NAZTEC																		
40	40-3	CONROY ROAD @ VINELAND ROAD	IT-30	IT-67, IT-71	ORLANDO	NAZTEC																		
40	40-4	VINELAND ROAD @ WALDEN CIRCLE	IT-30	IT-69, IT-72	ORLANDO	NAZTEC				85														
40	40-5	CONROY ROAD @ I-4 WB RAMP	IT-30	IT-69, IT-71	ORLANDO	NAZTEC																		
40	40-6	CONROY ROAD @ I-4 EB RAMP	IT-31	IT-69, IT-72	ORLANDO	NAZTEC																		
40	40-7	CONROY ROAD @ MILLENIA BOULEVARD	IT-31	IT-69, IT-71	ORLANDO	NAZTEC																		
40	40-8	CONROY ROAD @ WATER GARDENS DRIVE	IT-31	IT-53, IT-71	ORLANDO	NAZTEC				85														
40	40-9	CONROY ROAD @ EASTGATE DRIVE	IT-31	IT-51, IT-71	ORLANDO	NAZTEC				85														
40	40-10	AMERICANA BOULEVARD @ TEXAS AVENUE	IT-32	IT-60, IT-72	ORANGE COUNTY	SIEMENS				85														
40	40-11	AMERICANA BOULEVARD @ SAN ANTONIO AVENUE	IT-32	IT-60, IT-72	ORANGE COUNTY	SIEMENS				70														
40	40-12	RIO GRANDE AVENUE @ HOLDEN AVENUE	IT-32	IT-60, IT-72	ORANGE COUNTY	SIEMENS				85														
40	40-13	RIO GRANDE AVENUE @ TEXAS AVENUE	IT-32	IT-60, IT-72	ORANGE COUNTY	SIEMENS				85														
40	40-14	RIO GRANDE AVENUE @ 29TH STREET	IT-33	IT-56, IT-72	ORANGE COUNTY	SIEMENS				85														
40	40-15	RIO GRANDE AVENUE @ MICHIGAN STREET	IT-33	IT-60, IT-72	ORANGE COUNTY	SIEMENS				85														
40	40-16	MICHIGAN STREET @ WESTMORELAND DRIVE	IT-33	IT-56, IT-72	ORANGE COUNTY	EAGLE				85														
40	40-17	MICHIGAN STREET @ DIVISION AVENUE	IT-33	IT-71	ORANGE COUNTY	EAGLE																		
40	40-18	MICHIGAN STREET @ S ORANGE AVENUE	IT-34	IT-71	ORLANDO	NAZTEC																		
TOTAL THIS SHEET	PLAN TOTAL FOR ROUTE 40									835		14	4					8	10	8	3			



REVISIONS				KITTELSON & ASSOCIATES, INC. TSZ SHING TSOI, P.E. # 75055 110 E BROWARD BLVD, SUITE 2410 FORT LAUDERDALE, FLORIDA 33301 TEL: (954) 828-1730 FAX: (954) 828-1787 CERTIFICATION OF AUTHORIZATION 7524	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SUMMARY OF QUANTITIES	SHEET NO. IT-8
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					VARIES	ORANGE SEMINOLE	435446-1-52-01		

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LYNX ROUTE 42

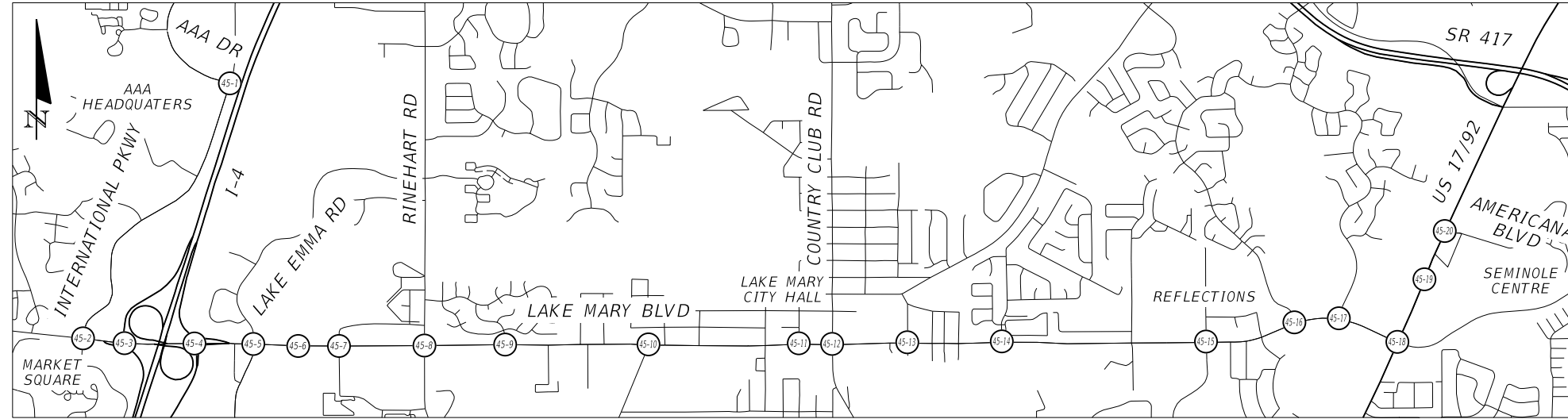


ROUTE	INTERSECTION NUMBER	INTERSECTION NAME	PLAN SHEET NUMBER	DETAIL SHEET NUMBER	SIGNAL MAINTAINING AGENCY	CONTROLLER TYPE	CONDUIT, FURNISH & INSTALL, OPEN TRENCH - LF (630-2-11)	CONDUIT, FURNISH & INSTALL, ABOVEGROUND - LF (630-2-14)	FIBER OPTIC CONNECTION, INSTALL, SPLICE - EA (633-2-31)	FIBER OPTIC CONNECTION HARDWARE, RELOCATE PATCH PANEL, FIELD TERMINATED - EA (633-3-46)	MULTI-CONDUCTOR COMMUNICATION CABLE, FURNISH & INSTALL - LF (633-8-1)	LOOP DETECTOR INDUCTIVE, F&I, TYPE 10 - EA (660-1-110)	SIGNAL PRIORITY AND PREEMPTION SYSTEM, FURNISH AND INSTALL, GPS, COMPLETE SYSTEM - EA (663-1-120)	SIGNAL PRIORITY AND PREEMPTION SYSTEM, FURNISH AND INSTALL, GPS, REPLACE CABINET ELECTRONICS - EA (663-1-121)	TRAFFIC CONTROLLER ASSEMBLY, F&I, NEMA, 1 PREEMPTION - AS (670-5-111)	TRAFFIC CONTROLLER ASSEMBLY, MODIFY - AS (670-5-400)	TRAFFIC CONTROLLER ASSEMBLY, REMOVE CONTROLLER WITH CABINET - AS (670-5-600)	TRAFFIC CONTROLLER WITHOUT CABINET, F&I IN EXISTING CABINET, NEMA - EA (671-2-11)	TRAFFIC CONTROLLER, MODIFY - EA (671-2-40)	TRAFFIC CONTROLLER, REMOVE-CABINET TO REMAIN - EA (671-2-60)	MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL - EA (684-1-1)	MANAGED FIELD ETHERNET SWITCH, RELOCATE - EA (684-1-4)	SYSTEM AUXILIARIES, FURNISH & INSTALL, INTERFACE PANEL - EA (685-128)	
42	42-1	OAK RIDGE ROAD @ INTERNATIONAL DRIVE	IT-34	IT-71	ORLANDO	NAZTEC								1						1				
42	42-2	OAK RIDGE ROAD @ MILLENIA BOULEVARD	IT-34	IT-69, IT-71	ORLANDO	NAZTEC							1							1				
42	42-3	OAK RIDGE ROAD @ HARCOURT AVENUE	IT-34	IT-60, IT-72	ORANGE COUNTY	EAGLE				85			1					1			1	1		
42	42-4	OAK RIDGE ROAD @ KINGSGATE DRIVE	IT-35	IT-52, IT-72	ORANGE COUNTY	EAGLE				85			1					1			1	1		
42	42-5	OAK RIDGE ROAD @ JOHN YOUNG PARKWAY	IT-35	IT-52, IT-72	ORANGE COUNTY	EAGLE				85			1					1	1					
42	42-6	OAK RIDGE ROAD @ TEXAS AVENUE	IT-35	IT-59, IT-72	ORANGE COUNTY	EAGLE				85			1					1			1	1		
42	42-7	OAK RIDGE ROAD @ S. RIO GRANDE AVENUE	IT-35	IT-59, IT-71	ORANGE COUNTY	EAGLE				85			1					1			1	1		
TOTAL THIS SHEET		PLAN TOTAL FOR ROUTE 42								425			6	1				4	3		4	4		

REVISIONS				KITTELSON & ASSOCIATES, INC. TSZ SHING TSOI, P.E. # 75055 110 E BROWARD BLVD, SUITE 2410 FORT LAUDERDALE, FLORIDA 33301 TEL: (954) 828-1730 FAX: (954) 828-1787 CERTIFICATION OF AUTHORIZATION 7524	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. SUMMARY OF QUANTITIES IT-9
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					VARIES	ORANGE SEMINOLE	435446-1-52-01	

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LYNX ROUTE 45

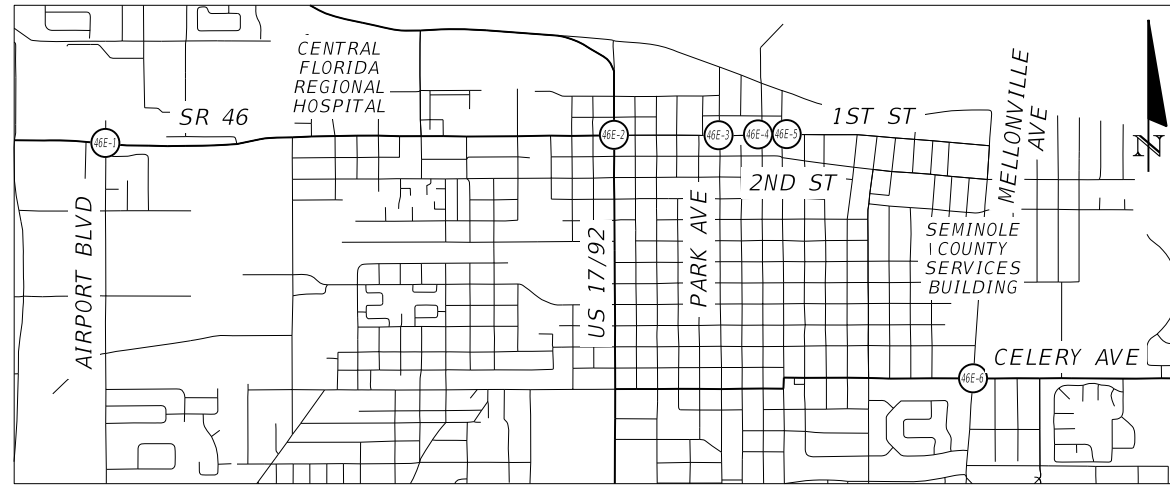


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45	45-1	INTERNATIONAL PARKWAY @ AAA DRIVE	IT-36	IT-52, IT-71	CONTROL SPECIALISTS	NAZTEC					115		1						1				
45	45-2	LAKE MARY BOULEVARD @ INTERNATIONAL PARKWAY	IT-36	IT-52, IT-71	SEMINOLE COUNTY	NAZTEC					85		1						1				
45	45-3	LAKE MARY BOULEVARD @ I-4 WB RAMPS	IT-36	IT-52, IT-71	SEMINOLE COUNTY	NAZTEC					85		1						1				
45	45-4	LAKE MARY BOULEVARD @ I-4 EB RAMPS	IT-36	IT-52, IT-71	SEMINOLE COUNTY	NAZTEC					85		1						1				
45	45-5	LAKE MARY BOULEVARD @ LAKE EMMA ROAD	IT-37	IT-52, IT-71	SEMINOLE COUNTY	NAZTEC					85		1						1				
45	45-6	LAKE MARY BOULEVARD @ LAKE MARY CENTRE	IT-37	IT-52, IT-71	SEMINOLE COUNTY	NAZTEC					85		1						1				
45	45-7	LAKE MARY BOULEVARD @ SUN DRIVE	IT-37	IT-52, IT-71	SEMINOLE COUNTY	NAZTEC					85		1						1				
45	45-8	LAKE MARY BOULEVARD @ RINEHART ROAD	IT-37	IT-52, IT-71	SEMINOLE COUNTY	NAZTEC					85		1						1				
45	45-9	LAKE MARY BOULEVARD @ FOREST BOULEVARD	IT-38	IT-52, IT-71	SEMINOLE COUNTY	NAZTEC					85		1						1				
45	45-10	LAKE MARY BOULEVARD @ LONGWOOD LAKE MARY ROAD	IT-38	IT-52, IT-71	SEMINOLE COUNTY	NAZTEC					85		1						1				
45	45-11	LAKE MARY BOULEVARD @ 4TH STREET	IT-38	IT-51, IT-71	SEMINOLE COUNTY	NAZTEC					85		1						1				
45	45-12	LAKE MARY BOULEVARD @ COUNTRY CLUB ROAD	IT-38	IT-53, IT-71	SEMINOLE COUNTY	NAZTEC					85		1						1				
45	45-13	LAKE MARY BOULEVARD @ PALMETTO STREET	IT-39	IT-71	SEMINOLE COUNTY	NAZTEC					185		1						1				
45	45-14	LAKE MARY BOULEVARD @ SIR LAWRENCE DRIVE	IT-39	IT-51, IT-71	SEMINOLE COUNTY	NAZTEC					85		1						1				
45	45-15	LAKE MARY BOULEVARD @ COLLEGE DRIVE	IT-39	IT-52, IT-71	SEMINOLE COUNTY	NAZTEC					85		1						1				
45	45-16	LAKE MARY BOULEVARD @ HIDDEN LAKE	IT-39	IT-52, IT-71	SEMINOLE COUNTY	NAZTEC					85		1						1				
45	45-17	LAKE MARY BOULEVARD @ LIVE OAK BOULEVARD	IT-40	IT-52, IT-71	SEMINOLE COUNTY	NAZTEC					85		1						1				
45	45-18	LAKE MARY BOULEVARD @ US 17/92	IT-40	IT-52, IT-71	SEMINOLE COUNTY	NAZTEC					85		1						1				
45	45-19	US 17/92 @ LOWE'S	IT-40	IT-51, IT-71	SEMINOLE COUNTY	NAZTEC					85		1						1				
45	45-20	US 17/92 @ AMERICANA BOULEVARD	IT-40	IT-52, IT-71	SEMINOLE COUNTY	NAZTEC					85		1						1				
TOTAL THIS SHEET	PLAN TOTAL FOR ROUTE 45										1830		20						20				
	FINAL TOTAL FOR ROUTE 45																						

<table border="1"> <thead> <tr><th colspan="2">REVISIONS</th></tr> <tr><th>DATE</th><th>DESCRIPTION</th></tr> </thead> <tbody> <tr><td> </td><td> </td></tr> </tbody> </table>				REVISIONS		DATE	DESCRIPTION			KITTELSON & ASSOCIATES, INC. TSZ SHING TSOI, P.E. # 75055 110 E BROWARD BLVD, SUITE 2410 FORT LAUDERDALE, FLORIDA 33301 TEL: (954) 828-1730 FAX: (954) 828-1787 CERTIFICATION OF AUTHORIZATION 7524	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. IT-10
REVISIONS														
DATE	DESCRIPTION													
<table border="1"> <thead> <tr><th>ROAD NO.</th><th>COUNTY</th><th>FINANCIAL PROJECT ID</th></tr> </thead> <tbody> <tr><td>VARIES</td><td>ORANGE SEMINOLE</td><td>435446-1-52-01</td></tr> </tbody> </table>		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	VARIES	ORANGE SEMINOLE	435446-1-52-01	SUMMARY OF QUANTITIES						
ROAD NO.	COUNTY	FINANCIAL PROJECT ID												
VARIES	ORANGE SEMINOLE	435446-1-52-01												

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

LYNX ROUTE 46E

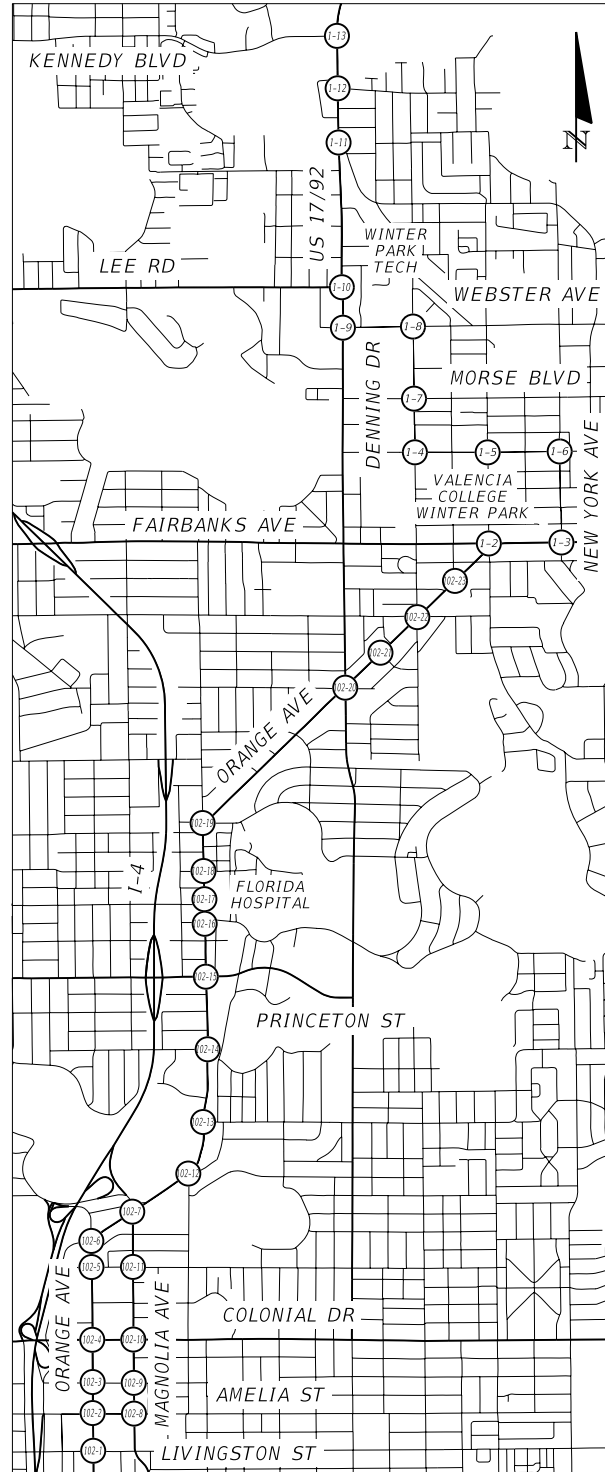


ROUTE	INTERSECTION NUMBER	INTERSECTION NAME	PLAN SHEET NUMBER	DETAIL SHEET NUMBER	SIGNAL MAINTAINING AGENCY	CONTROLLER TYPE	CONDUIT, FURNISH & INSTALL, OPEN TRENCH - LF (630-2-11)	CONDUIT, FURNISH & INSTALL, ABOVEGROUND - LF (630-2-14)	FIBER OPTIC CONNECTION, INSTALL, SPLICE - EA (633-2-31)	FIBER OPTIC CONNECTION HARDWARE, RELOCATE PATCH PANEL- FIELD TERMINATED - EA (633-3-46)	MULTI-CONDUCTOR COMMUNICATION CABLE, FURNISH & INSTALL - LF (633-8-1)	LOOP DETECTOR INDUCTIVE, F&I, TYPE 10 - EA (660-1-110)	SIGNAL PRIORITY AND PREEMPTION SYSTEM, FURNISH AND INSTALL, GPS, COMPLETE SYSTEM - EA (663-1-120)	SIGNAL PRIORITY AND PREEMPTION SYSTEM, FURNISH AND INSTALL, GPS, REPLACE CABINET ELECTRONICS - EA (663-1-121)	TRAFFIC CONTROLLER ASSEMBLY, F&I, NEMA, 1 PREEMPTION - AS (670-5-111)	TRAFFIC CONTROLLER ASSEMBLY, MODIFY - AS (670-5-400)	TRAFFIC CONTROLLER ASSEMBLY, REMOVE CONTROLLER WITH CABINET - AS (670-5-600)	TRAFFIC CONTROLLER WITHOUT CABINET, F&I IN EXISTING CABINET, NEMA - EA (671-2-11)	TRAFFIC CONTROLLER, MODIFY - EA (671-2-40)	TRAFFIC CONTROLLER, REMOVE - CABINET TO REMAIN - EA (671-2-60)	MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL - EA (684-1-1)	MANAGED FIELD ETHERNET SWITCH, RELOCATE - EA (684-1-4)	SYSTEM AUXILIARIES, FURNISH & INSTALL, INTERFACE PANEL - EA (685-128)	
46E	46E-1	SR 46 @ AIRPORT BOULEVARD	IT-41	IT-57, IT-71	SEMINOLE COUNTY	NAZTEC				85			1											
46E	46E-2	SR 46 @ US 17/92	IT-41	IT-55, IT-71	SEMINOLE COUNTY	NAZTEC	20			85			1			1								
46E	46E-3	1ST STREET @ PARK AVENUE	IT-41	IT-68, IT-71	SEMINOLE COUNTY	NAZTEC				85			1											
46E	46E-4	1ST STREET @ PALMETTO AVENUE	IT-41	IT-68, IT-71	SEMINOLE COUNTY	NAZTEC				85			1											
46E	46E-5	1ST STREET @ SANFORD AVENUE	IT-42	IT-68, IT-71	SEMINOLE COUNTY	NAZTEC				85			1											
46E	46E-6	CELERY AVENUE @ MELLONVILLE AVENUE	IT-42	IT-56, IT-72	SEMINOLE COUNTY	NAZTEC				85			1											
TOTAL	PLAN TOTAL FOR ROUTE 46E						20			510			6			1								
THIS SHEET	FINAL TOTAL FOR ROUTE 46E																							

REVISIONS				KITTELSON & ASSOCIATES, INC. TSZ SHING TSOI, P.E. # 75055 110 E BROWARD BLVD, SUITE 2410 FORT LAUDERDALE, FLORIDA 33301 TEL: (954) 828-1730 FAX: (954) 828-1787 CERTIFICATION OF AUTHORIZATION 7524	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. SUMMARY OF QUANTITIES IT-11
DATE	DESCRIPTION	DATE	ROAD NO.		COUNTY	FINANCIAL PROJECT ID		
			VARIES		ORANGE SEMINOLE	435446-1-52-01		

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

LYNX ROUTE 102



ROUTE	INTERSECTION NUMBER	INTERSECTION NAME	PLAN SHEET NUMBER	DETAIL SHEET NUMBER	SIGNAL MAINTAINING AGENCY	CONTROLLER TYPE	CONDUIT, FURNISH & INSTALL, OPEN TRENCH - LF (630-2-11)	CONDUIT, FURNISH & INSTALL ABOVEGROUND - LF (630-2-14)	FIBER OPTIC CONNECTION, INSTALL, SPLICE - EA (633-2-31)	FIBER OPTIC CONNECTION HARDWARE, RELOCATE PATCH PANEL- FIELD TERMINATED - EA (633-3-46)	MULTI-CONDUCTOR COMMUNICATION CABLE, FURNISH & INSTALL - LF (633-8-1)	LOOP DETECTOR, INDUCTIVE, F&I, TYPE 10 - EA (660-1-110)	SIGNAL PRIORITY AND PREEMPTION SYSTEM, FURNISH AND INSTALL, GPS, COMPLETE SYSTEM - EA (663-1-120)	SIGNAL PRIORITY AND PREEMPTION SYSTEM, FURNISH AND INSTALL, GPS, REPLACE CABINET ELECTRONICS - EA (663-1-121)	TRAFFIC CONTROLLER ASSEMBLY, F&I, NEMA, 1 PREEMPTION - AS (670-5-111)	TRAFFIC CONTROLLER ASSEMBLY, MODIFY - AS (670-5-400)	TRAFFIC CONTROLLER ASSEMBLY, REMOVE, CONTROLLER WITH CABINET - AS (670-5-600)	TRAFFIC CONTROLLER WITHOUT CABINET, F&I, IN EXISTING CABINET, NEMA - EA (671-2-11)	TRAFFIC CONTROLLER, MODIFY - EA (671-2-40)	TRAFFIC CONTROLLER, REMOVE- CABINET TO REMAIN - EA (671-2-60)	MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL - EA (684-1-1)	MANAGED FIELD ETHERNET SWITCH, RELOCATE - EA (684-1-4)	SYSTEM AUXILIARIES, FURNISH & INSTALL, INTERFACE PANEL - EA (685-128)		
102	102-1	N ORANGE AVENUE @ LIVINGSTON AVENUE	IT-42	IT-72	ORLANDO	NAZTEC																			
102	102-2	N ORANGE AVENUE @ AMELIA STREET	IT-42	IT-71	ORLANDO	NAZTEC																			
102	102-3	N ORANGE AVENUE @ CONCORD STREET	IT-43	IT-72	ORLANDO	NAZTEC																			
102	102-4	N ORANGE AVENUE @ COLONIAL DRIVE	IT-43	IT-72	ORLANDO	NAZTEC																			
102	102-5	N ORANGE AVENUE @ MARKS STREET	IT-43	IT-72	ORLANDO	NAZTEC																			
102	102-6	N ORANGE AVENUE @ GARLAND AVENUE	IT-43	IT-71	ORLANDO	NAZTEC																			
102	102-7	N ORANGE AVENUE @ MAGNOLIA AVENUE	IT-44	IT-71	ORLANDO	NAZTEC																			
102	102-8	MAGNOLIA AVENUE @ AMELIA STREET	IT-44	IT-71	ORLANDO	NAZTEC																			
102	102-9	MAGNOLIA AVENUE @ CONCORD STREET	IT-44	IT-72	ORLANDO	NAZTEC																			
102	102-10	MAGNOLIA AVENUE @ COLONIAL DRIVE	IT-44	IT-71	ORLANDO	NAZTEC																			
102	102-11	MAGNOLIA AVENUE @ MARKS STREET	IT-45	IT-71	ORLANDO	NAZTEC																			
102	102-12	N ORANGE AVENUE @ HIGHLAND AVENUE	IT-45	IT-71	ORLANDO	NAZTEC																			
102	102-13	N ORANGE AVENUE @ VIRGINIA DRIVE	IT-45	IT-71	ORLANDO	NAZTEC																			
102	102-14	N ORANGE AVENUE @ NEW HAMPSHIRE STREET	IT-45	IT-71	ORLANDO	NAZTEC																			
102	102-15	N ORANGE AVENUE @ PRINCETON STREET	IT-46	IT-71	ORLANDO	NAZTEC																			
102	102-16	N ORANGE AVENUE @ ROLLINS STREET	IT-46	IT-71	ORLANDO	NAZTEC																			
102	102-17	N ORANGE AVENUE @ WINTER PARK STREET	IT-46	IT-71	ORLANDO	NAZTEC																			
102	102-18	N ORANGE AVENUE @ KING STREET	IT-46	IT-72	ORLANDO	NAZTEC																			
102	102-19	N ORANGE AVENUE @ CLAY STREET	IT-47	IT-71	ORLANDO	NAZTEC																			
102	102-20	N ORANGE AVENUE @ US 17/92	IT-47	IT-57, IT-72	WINTER PARK	SIEMENS					85		1												
102	102-21	N ORANGE AVENUE @ CYPRESS AVENUE	IT-47	IT-51, IT-72	WINTER PARK	EAGLE					85		1												
102	102-22	N ORANGE AVENUE @ DENNING DRIVE	IT-47	IT-52, IT-72	WINTER PARK	NAZTEC					175		1												
102	102-23	N ORANGE AVENUE @ CAPEN AVENUE	IT-48	IT-54, IT-72	WINTER PARK	SIEMENS					180		1												
102	1-2	FAIRBANKS AVE @ PENNSYLVANIA AVE/N ORANGE AVE	IT-16	SEE ROUTE 1																					
102	1-3	FAIRBANKS AVENUE @ NEW YORK AVENUE	IT-16	SEE ROUTE 1																					
102	1-6	NEW YORK AVENUE @ MORSE BOULEVARD	IT-17	SEE ROUTE 1																					
102	1-5	MORSE BOULEVARD @ PENNSYLVANIA AVENUE	IT-17	SEE ROUTE 1																					
102	1-4	DENNING DRIVE @ MORSE BOULEVARD	IT-16	SEE ROUTE 1																					
102	1-7	DENNING DRIVE @ CANTON AVENUE	IT-17	SEE ROUTE 1																					
102	1-8	WEBSTER AVENUE @ DENNING DRIVE	IT-17	SEE ROUTE 1																					
102	1-9	US 17/92 @ WEBSTER AVENUE	IT-18	SEE ROUTE 1																					
102	1-10	US 17/92 @ LEE ROAD	IT-18	SEE ROUTE 1																					
102	1-11	US 17/92 @ PARK AVENUE	IT-18	SEE ROUTE 1																					
102	1-12	US 17/92 @ MAGNOLIA ROAD	IT-18	SEE ROUTE 1																					
102	1-13	US 17/92 @ KENNEDY BOULEVARD	IT-19	SEE ROUTE 1																					
TOTAL PLAN TOTAL FOR ROUTE 102																				2	21	2			
THIS SHEET																									

REVISIONS				<p style="text-align: center;">KITTELSON & ASSOCIATES, INC. TSZ SHING TSOI, P.E. # 75055 110 E BROWARD BLVD, SUITE 2410 FORT LAUDERDALE, FLORIDA 33301 TEL: (954) 828-1730 FAX: (954) 828-1787 CERTIFICATION OF AUTHORIZATION 7524</p>	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<h1 style="margin: 0;">SUMMARY OF QUANTITIES</h1>	SHEET NO. IT-12
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					VARIES	ORANGE SEMINOLE	435446-1-52-01		

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LYNX ROUTE 443



SUMMARY OF GENERAL ITEMS								
PAY ITEM NO.	PAY ITEM DESCRIPTION	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
			P	F	P	F		
101-1	MOBILIZATION	LS	1		1			
102-1	MAINTENANCE OF TRAFFIC	LS	1		1			
102-14	TRAFFIC CONTROL OFFICER	MH	16		16			

SUMMARY OF TEMPORARY TRAFFIC CONTROL PLAN ITEMS									
PAY ITEM NO.	PAY ITEM DESCRIPTION	UNIT	PHASE I			TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
			DURATION DAYS	QUANTITY		P	F		
				P	F				
102-60	WORK ZONE SIGNS	ED	79	7	553	7			
102-74-1	CHANNELIZING DEVICE, (TYPE I, II, VP, DRUM, VEHICULAR LONG, CHANNEL, DEVICE)	ED	79	20	1580	20			
102-76	ARROWBOARD/ADVANCE WARNING ARROW PANEL	ED	79	1	79	1			
102-77	HIGH INTENSITY FLASHING LIGHT, TEMPORARY, TYPE B	ED	79	5	395	5			
102-99	PORTABLE CHANGEABLE MESSAGE SIGN - TEMPORARY	ED	79	1	79	1			

ROUTE	INTERSECTION NUMBER	INTERSECTION NAME	PLAN SHEET NUMBER	DETAIL SHEET NUMBER	SIGNAL MAINTAINING AGENCY	CONTROLLER TYPE	CONDUIT, FURNISH & INSTALL, OPEN TRENCH - LF (630-2-11)	CONDUIT, FURNISH & INSTALL, ABOVEGROUND - LF (630-2-14)	FIBER OPTIC CONNECTION, INSTALL, SPLICE - EA (633-2-31)	FIBER OPTIC CONNECTION HARDWARE, RELOCATE PATCH PANEL - FIELD TERMINATED - EA (633-3-46)	MULTI-CONDUCTOR COMMUNICATION CABLE, FURNISH & INSTALL - LF (633-8-1)	LOOP DETECTOR INDUCTIVE, F&I, TYPE 10 - EA (660-1-110)	SIGNAL PRIORITY AND PREEMPTION SYSTEM, FURNISH AND INSTALL, GPS, COMPLETE SYSTEM - EA (663-1-120)	SIGNAL PRIORITY AND PREEMPTION SYSTEM, FURNISH AND INSTALL, GPS, REPLACE CABINET ELECTRONICS - EA (663-1-121)	TRAFFIC CONTROLLER ASSEMBLY, F&I, NEMA, 1 PREEMPTION - AS (670-5-111)	TRAFFIC CONTROLLER ASSEMBLY, MODIFY - AS (670-5-400)	TRAFFIC CONTROLLER ASSEMBLY, REMOVE CONTROLLER WITH CABINET - AS (670-5-600)	TRAFFIC CONTROLLER WITHOUT CABINET, F&I IN EXISTING CABINET, NEMA - EA (671-2-11)	TRAFFIC CONTROLLER, MODIFY - EA (671-2-40)	TRAFFIC CONTROLLER, REMOVE-CABINET TO REMAIN - EA (671-2-60)	MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL - EA (684-1-1)	MANAGED FIELD ETHERNET SWITCH, RELOCATE - EA (684-1-4)	SYSTEM AUXILIARIES, FURNISH & INSTALL, INTERFACE PANEL - EA (685-128)
443	1-4	DENNING DRIVE @ MORSE BOULEVARD	IT-16	SEE ROUTE 1																			
443	1-5	MORSE BOULEVARD @ PENNSYLVANIA AVENUE	IT-17	SEE ROUTE 1																			
443	1-6	NEW YORK AVENUE @ MORSE BOULEVARD	IT-17	SEE ROUTE 1																			
443	1-3	FAIRBANKS AVENUE @ NEW YORK AVENUE	IT-16	SEE ROUTE 1																			
443	443-1	FAIRBANKS AVENUE @ PARK AVENUE	IT-48	IT-68, IT-72	WINTER PARK	EAGLE				235		1						1					
443	443-2	FAIRBANKS AVENUE @ ROLLINS PED SIGNAL	IT-49	IT-52, IT-72	WINTER PARK	SIEMENS				250		1						1					
443	443-3	FAIRBANKS AVENUE @ CHASE AVENUE/OLLIE AVENUE	IT-49	IT-60, IT-72	WINTER PARK	EAGLE				85		1						1					
443	443-4	ALOMA AVENUE @ PHELPS AVENUE	IT-49	IT-63, IT-72	WINTER PARK	EAGLE	50	35		85	1	1		1			1						
443	443-5	ALOMA AVENUE @ LAKEMONT AVENUE	IT-50	IT-65, IT-72	WINTER PARK	EAGLE				85		1						1					
443	1-9	US 17/92 @ WEBSTER AVENUE	IT-18	SEE ROUTE 1																			
443	1-10	US 17/92 @ LEE ROAD	IT-18	SEE ROUTE 1																			
443	1-7	DENNING DRIVE @ CANTON AVENUE	IT-17	SEE ROUTE 1																			
443	1-8	WEBSTER AVENUE @ DENNING DRIVE	IT-17	SEE ROUTE 1																			
TOTAL THIS SHEET	TOTAL FOR ROUTE 443						50	35		740	1	5		1		1	3	1	3				
GRAND TOTAL	PLAN TOTAL FOR ALL ROUTES						120	70	24	1	7820	5	99	35	2	1	2	35	97	35	10	1	4
	FINAL TOTAL FOR ALL ROUTES																						

NOTE: SEE IT-70 AND IT-71 FOR ADDITIONAL QUANTITIES

REVISIONS				KITTELSON & ASSOCIATES, INC. TSZ SHING TSOI, P.E. # 75055 110 E BROWARD BLVD, SUITE 2410 FORT LAUDERDALE, FLORIDA 33301 TEL: (954) 828-1730 FAX: (954) 828-1787 CERTIFICATION OF AUTHORIZATION 7524	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. SUMMARY OF QUANTITIES IT-13
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					VARIES	ORANGE SEMINOLE	435446-1-52-01	

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

GENERAL:

1. CONTRACTOR TO NOTIFY CITY OF MAITLAND (MR. NOEL COOPER (407) 539-6217), CITY OF ORLANDO (MR. CADE BRAUD, P.E., P.T.O.E. (321) 235-5350), CITY OF WINTER PARK (MR. WAYNE (BUTCH) MARGRAF (407) 599-3411), CONTROL SPECIALIST (MR. DOUG MILLS (407) 628-1965) ORANGE COUNTY (MR. HAZEM EL-ASSAR, P.E. (407) 836-7866), AND SEMINOLE COUNTY (MR. CHARLES R. WETZEL, P.E., P.T.O.E. 407-665-5686) TWO BUSINESS DAYS PRIOR TO BEGINNING CONSTRUCTION.
2. EXISTING UTILITIES ARE TO REMAIN IN PLACE UNLESS OTHERWISE NOTED.
3. ALL STAKING OF PROPOSED CONSTRUCTION TO ALLOW FOR PROPER INSTALLATION/RELOCATION OF UTILITY FACILITIES, AS INDICATED ON THE UTILITY WORK SCHEDULE, SHALL BE PERFORMED BY THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE IMPACTED UTILITIES AND STAKE THE ITEMS REQUESTED. THIS STAKING SHALL BE SEPARATE AND IN ADDITION TO THE NORMAL STAKING FOR THE PROJECT. THE COST OF THIS STAKING IS CONSIDERED INCIDENTAL TO AND INCLUDED IN THE COST OF THE PROJECT.
4. ANY PUBLIC LAND CORNER WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE ENGINEER SHOULD NOTIFY THE DISTRICT LOCATION SURVEYOR, WITHOUT DELAY, BY TELEPHONE AS NOTED ON THE GENERAL NOTES.
5. RIGHT OF WAY LINES ARE APPROXIMATE THEREFORE ANY DEVIATIONS FROM THE PLANS OR ENCROACHMENT SHALL BE APPROVED BY THE ENGINEER.
6. UNLESS OTHERWISE NOTED ALL REMOVED EQUIPMENT SHALL BE TURNED OVER TO THE APPROPRIATE MAINTAINING AGENCY AS NOTED ON THE UTILITY SHEET AS DIRECTED BY THE ENGINEER, EXCEPT CONCRETE POLES, WHICH SHALL BE DISPOSED OF BY THE CONTRACTOR. CONTRACTOR TO NOTIFY THE APPROPRIATE MAINTAINING AGENCY 2 BUSINESS DAYS PRIOR TO BEGINNING CONSTRUCTION.
7. IT SHOULD BE NOTED THAT NO TEST BORINGS WERE MADE WHERE CONDUIT RUNS ARE TO BE INSTALLED BY JACKING, DIRECTIONAL BORING, OR TRENCHING. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO EXAMINE THE JOB SITE CONDITIONS BEFORE SUBMITTING BID PROPOSALS IN ACCORDANCE WITH SECTION 2-4 OF THE SPECIFICATIONS.
8. THE CONTRACTOR SHALL VERIFY COLOR CODES FOR BOTH SIGNAL CABLE AND INTERCONNECT CABLE WITH THE APPROPRIATE MAINTAINING AGENCY BEFORE ORDERING.
9. THE CONTRACTOR IS REQUIRED TO INSPECT THE INSTALLATION OF THE TRAFFIC SIGNALS IN ACCORDANCE WITH FDOT SPECIFICATION 105-8.10. THE CONTRACTOR SHALL COORDINATE THE FINAL ACCEPTANCE INSPECTION IN ACCORDANCE WITH FDOT SPECIFICATION 611-2.2 WITH THE ENGINEER AT LEAST TEN DAYS IN ADVANCE. THE (MAINTAINING AGENCY) AND FDOT TRAFFIC OPERATIONS AT (386) 943-5318 SHOULD ALSO BE CONTACTED TEN DAYS BEFORE THE INSPECTION IS TO BE PERFORMED SO THEY MAY BE PRESENT.
10. THE CONTRACTOR SHALL MAINTAIN THE EXISTING TRAFFIC SIGNALS DURING THIS PROJECT. WORK AT EACH TRAFFIC SIGNAL IS ANTICIPATED TO LAST 4-8 HOURS.
11. THE LOCAL (PERMIT MANAGER/PROJECT ADMINISTRATOR) SHOULD BE INFORMED TWO BUSINESS DAYS BEFORE ANY DIRECTIONAL BORES.
12. IN THE EVENT PERMANENT VEHICLE DETECTION IS DISRUPTED, PROVIDE AN ALTERNATIVE MEANS OF DETECTION TO ALL LANES APPROACHING THE INTERSECTION, SEPARATING EACH MOVEMENT WHICH PREVIOUSLY HAD DETECTION. THE TYPE OF DETECTOR SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. EQUIPMENT SHALL ONLY DETECT THE INTENDED MOVEMENT.
13. THE CONTRACTOR SHALL CONTACT LYNX (BILL KIRKLAND @ 407-841-2279 EXT. 3512) TO COORDINATE ACCESS TO PERFORM WORK ON THE BUSES, WHICH MAY BE LIMITED TO NIGHTS AND WEEKENDS.
14. THERE ARE WETLANDS PRESENT WITHIN THE PROJECT CORRIDOR, AND THE CONTRACTOR SHALL NOT CLEAR/GRUB OR STAGE EQUIPMENT WITHIN WETLANDS.
15. THE CONTRACTOR SHALL COMPLETE EQUIPMENT AND SOFTWARE INSTALLATION AND TESTING FOR ONE BUS WITHIN 30 DAYS OF NTP. IT SHOULD BE NOTED THAT THE SOFTWARE WILL NOT BE AVAILABLE UNTIL OCTOBER 20, 2015 AND THIS TIME IS INCLUDED AS PART OF THE 200 CONSTRUCTION DAYS.

CONTROLLER:

1. THE CONTROLLER ASSEMBLY SHALL CONSIST OF A NEMA TS 2 CABINET WITH A TS 2 TYPE 1 OR TYPE 2 CONTROLLER (VERIFY CONTROLLER TYPE WITH THE APPROPRIATE MAINTAINING AGENCY PRIOR TO BID). THE CONTROLLER ASSEMBLY SHALL HAVE ALL NECESSARY HARDWARE TO COMMUNICATE WITH THE APPLICABLE MAINTAINING AGENCY'S SIGNAL SYSTEM AND BE ABLE TO OPERATE USING GPS TRANSIT SIGNAL PRIORITY. ANY ADDITIONAL EQUIPMENT AND/OR ACCESSORIES REQUIRED FOR THE TERMINATION AND OPERATION OF THE FIBER OPTIC INTERCONNECT CABLE SHALL BE FURNISHED AND INSTALLED AS PART OF THE CONTROLLER ASSEMBLY.
2. A MANUAL PUSH-BUTTON CORD SHALL BE FURNISHED IN THE CONTROLLER CABINET.
3. THE CONTROLLER CABINET SHALL BE ORIENTED SO THAT THE DOOR OPENS AWAY FROM THE INTERSECTION.

PED FEATURES:

1. THREE (3) SPARE CONDUCTORS ARE TO BE RUN TO THE FURTHEST PEDESTRIAN SIGNAL HEAD.

SIGNAL CABLE & LOOPS

1. TYPE 'F' LOOPS SHALL BE 40-FOOT X 6-FOOT AND EXTEND 5 FEET BEYOND THE STOP BAR.

MAINTENANCE OF TRAFFIC:

1. TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH FDOT DESIGN STANDARD INDEXES 600, 604, 605, 615, 616, 617, 618, AND 635.
2. NO LANE CLOSURES ALLOWED BETWEEN 6 AM AND 9 PM.
3. WORK ZONE SPEED SHALL BE THE SAME AS THE EXISTING POSTED SPEED.
4. WHEN WORK ACTIVITIES REQUIRE THE TEMPORARY CLOSURE OF A SIDEWALK, PEDESTRIAN TRAFFIC SHALL BE MAINTAINED PER DESIGN STANDARD INDEX 600 SERIES. A SIDEWALK MAY ONLY BE CLOSED DURING ACTIVE WORK PERIODS AND MUST BE REOPENED TO PEDESTRIANS AT THE END OF THE WORK PERIOD.

PAY ITEM NOTES:

1. PAY ITEM 632-7-1 INCLUDES THE COST FOR COMPLETELY REWIRING INTERSECTION AT SIGNAL LOCATIONS AS SHOWN IN THE PLANS.
2. PAY ITEM 633-8-1 INCLUDES ALL OPTICOM™ MODEL 1070 GPS INSTALLATION CABLING NEEDED TO CONNECT THE OPTICOM™ MODEL 3100 GPS RADIO UNIT TO THE OPTICOM™ MODEL 764 MULTIMODE PHASE SELECTOR LOCATED IN THE TRAFFIC SIGNAL CABINET AS SHOWN IN THE WIRING DIAGRAMS, AND THE OPTICOM™ MODEL 2171 VEHICLE INTERFACE CABLE FROM OPTICOM™ MODEL 1050 GPS/RADIO ANTENNA TO THE OPTICOM™ MODEL 2101 LOW PRIORITY RADIO/GPS CONTROL UNIT LOCATED IN THE BUS AS SHOWN IN THE BUS DETAILS. CONTRACTOR TO VERIFY LINEAR FEET OF OPTICOM™ MODEL 1070 GPS INSTALLATION CABLE REQUIRED AT INTERSECTIONS AND OPTICOM™ MODEL 2171 VEHICLE INTERFACE CABLE IN THE BUSES.
3. PAY ITEM 663-1-120 INCLUDES FURNISHING AND INSTALLATION OF THE OPTICOM™ MODEL 3100 GPS RADIO UNIT AS SHOWN IN THE WIRING DIAGRAMS WITH THE MOUNTING BRACKET SHOWN IN THE ANTENNA MOUNTING DETAILS FOR OVERHEAD MOUNTING OR THE OPTICOM™ MODEL 1050 GPS/RADIO ANTENNA AS SHOWN IN THE WIRING DIAGRAMS WITH THE OPTICOM™ MODEL 3101 GPS RADIO UNIT AND CABLING FOR CABINET MOUNTING. ALSO INCLUDED WITH OVERHEAD OR CABINET MOUNTING IS THE OPTICOM™ MODEL 760 CARD RACK (WITH REMOVAL OF CARD RACK WHERE EXISTING) AND 9 PIN HARNESS, THE OPTICOM™ MODEL 764 MULTIMODE PHASE SELECTOR (WITH REMOVAL OF GPS OR INFRARED PHASE SELECTOR WHERE EXISTING), THE OPTICOM™ MODEL 768 AUXILIARY INTERFACE PANEL AND CABLE, ANY ETHERNET CABLE (LENGTH TO BE DETERMINED BY THE CONTRACTOR) TO CONNECT THE OPTICOM™ MODEL 764 PHASE SELECTOR TO THE ETHERNET SWITCH, AND ANY ADDITIONAL WIRING TO CONNECT THE EXISTING INFRARED EQUIPMENT TO THE NEW OPTICOM™ MODEL 764 MULTIMODE PHASE SELECTOR. THE PAY ITEM SHALL ALSO INCLUDE THE COST OF ALL NECESSARY TREE TRIMMING AROUND SIGNAL POLE OR SIGNAL CABINET AND A FULLY FUNCTIONAL OPTICOM™.
4. PAY ITEM 663-1-121 INCLUDES FURNISHING AND INSTALLATION OF THE OPTICOM™ MODEL 760 CARD RACK (WITH REMOVAL OF CARD RACK WHERE EXISTING) AS SHOWN IN THE WIRING DIAGRAMS, THE OPTICOM™ MODEL 764 MULTIMODE PHASE SELECTOR (WITH REMOVAL OF GPS PHASE SELECTOR WHERE EXISTING), THE OPTICOM™ MODEL 768 AUXILIARY INTERFACE PANEL, ANY ETHERNET CABLE (LENGTH TO BE DETERMINED BY THE CONTRACTOR) TO CONNECT THE OPTICOM™ MODEL 764 PHASE SELECTOR TO ETHERNET SWITCH (WHERE EXISTING), AND ANY ADDITIONAL WIRING FOR TO CONNECT THE EXISTING INFRARED EQUIPMENT TO THE NEW OPTICOM™ MODEL 764 MULTIMODE PHASE SELECTOR.
5. PAY ITEM 670-5-111 INCLUDES A CONTROLLER READILY EQUIPPED TO HANDLE GPS TRANSIT SIGNAL PRIORITY CAPABILITY AS WELL AS THE TRANSFER OF ALL EXISTING SIGNAL TIMING AND ALL OTHER CONTROLLER INFORMATION INTO THE NEW CONTROLLER.
6. PAY ITEM 670-5-400 INCLUDES THE CORE DRILLING FOR EXISTING CABINETS WHERE SHOWN IN THE PLANS. THE CONTRACTOR IS TO COMPLETELY REMOVE THE EXISTING CABINET DURING DRILLING TO INSURE THAT NO DUST ACCUMULATES IN THE CABINET.
7. PAY ITEM 671-2-11 INCLUDES A CONTROLLER READILY EQUIPPED TO HANDLE GPS TRANSIT SIGNAL PRIORITY CAPABILITY AS WELL AS THE TRANSFER OF ALL EXISTING SIGNAL TIMING AND ALL OTHER CONTROLLER INFORMATION INTO THE NEW CONTROLLER.
8. PAY ITEM 671-2-40 INCLUDES THE COST OF CONTROLLER FIRMWARE UPGRADE TO HANDLE TRANSIT SIGNAL PRIORITY.
9. PAY ITEM 685-128 INCLUDES THE COST A PRE-EMPTION PANEL THAT IS COMPATIBLE WITH THE RESPECTIVE SIGNAL CABINET.

REVISIONS				METRIC ENGINEERING, INC. MICHAEL L. CORNEJO, P.E. # 47734 615 CRESCENT EXECUTIVE CT SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION 2294	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. GENERAL NOTES IT-14
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					VARIES	ORANGE SEMINOLE	435446-1-52-01	

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

MAINTAINING AGENCY:
 ORANGE COUNTY TRAFFIC OPERATIONS
 4200 SOUTH JOHN YOUNG PARKWAY
 ORLANDO, FL 32839-9205
 (407) 836-7830

UTILITY COMPANY

TELEPHONE NUMBERS

AT&T DISTRIBUTION (813) 342-0512
 AT&T TRANSMISSION (813) 342-0512
 BRIGHTHOUSE NETWORKS (407) 532-8509
 CITY OF ORLANDO - BUREAU OF WASTEWATER (407) 246-3525
 CITY OF ORLANDO TRAFFIC ENG SIGNAL FIBER (407) 246-2636
 CROWN CASTLE NG (724) 416-2028
 DUKE ENERGY FLORIDA, INC. (407) 942-9640
 FLORIDA GAS TRANSMISSION (407) 838-7171
 FPL FIBERNET (305) 552-2931
 LEVEL 3 COMMUNICATIONS (407) 754-0106 AND (407) 462-0609
 ORANGE COUNTY UTILITIES (407) 254-9718
 ORLANDO TELEPHONE COMPANY (727) 235-4362 AND (407) 236-9651
 ORLANDO UTILITIES COMMISION (407) 434-2159
 T W TELECOM (407) 215-6895
 TECO PEOPLES GAS - ORLANDO (407) 420-2678
 TOWER CLOUD INC. (727) 471-5640
 VERIZON BUSINESS (813) 740-1231
 WATER CONSERV II (407) 656-2332

MAINTAINING AGENCY:
 CITY OF ORLANDO TRANSPORATION ENGINEERING DIVISION
 P.O. BOX 4990
 ORLANDO, FL 32802-4990
 (407) 246-2281

UTILITY COMPANY

TELEPHONE NUMBERS

AT&T DISTRIBUTION (813) 342-0512
 AT&T TRANSMISSION (813) 342-0512
 BRIGHTHOUSE NETWORKS (407) 532-8509
 CENTURY LINK (407) 814-5344
 CITY OF ORLANDO - BUREAU OF WASTEWATER (407) 246-3525
 CITY OF ORLANDO TRAFFIC ENG SIGNAL FIBER (407) 246-2636
 CITY OF WINTER PARK (407) 691-7803
 CROWN CASTLE NG (724) 416-2028
 DUKE ENERGY FLORIDA, INC. (407) 942-9640
 EARTHLINK BUSINESS (256) 241-6438
 FLORIDA GAS TRANSMISSION (407) 838-7171
 FPL FIBERNET (305) 552-2931
 LEVEL 3 COMMUNICATIONS (407) 754-0106 AND (407) 462-0609
 CENTRAL FLORIDA EXPRESSWAY AUTHORITY (407) 316-3800
 ORLANDO TELEPHONE COMPANY (727) 235-4362 AND (407) 236-9651
 ORLANDO UTILITIES COMMISION (407) 236-9651
 SPRINT NEXTEL (321) 287-9942
 T W TELECOM (407) 215-6895
 TECO PEOPLES GAS - ORLANDO (407) 420-2678
 TOWER CLOUD INC. (727) 471-5640
 VERIZON BUSINESS (813) 740-1231
 WATER CONSERV II (407) 656-2332
 WINDSTREAM FLORIDA INC. (386) 462-6530

MAINTAINING AGENCY:
 SEMINOLE COUNTY PUBLIC WORKS
 TRAFFIC ENGINEERING
 140 BUSH LOOP
 SANFORD, FL 32773
 (407) 665-5677

UTILITY COMPANY

AT&T DISTRIBUTION (813) 342-0512
 AT&T TRANSMISSION (813) 342-0512
 BRIGHTHOUSE NETWORKS (407) 532-8509
 CENTURY LINK (407) 814-5344
 CITY OF LAKE MARY (407) 585-1452
 CITY OF SANFORD PUBLIC WORKS (407) 688-5000 ext: 5423
 CITY OF SANFORD UTILITIES DEPARTMENT (407) 688-5101
 DUKE ENERGY FLORIDA, INC. (407) 942-9640
 FLORIDA GAS TRANSMISSION (407) 838-7171
 FLORIDA POWER & LIGHT (386) 586-6432
 FLORIDA PUBLIC UTILITIES CO. (386) 668-9842
 LEVEL 3 COMMUNICATIONS (407) 754-0106 AND (407) 462-0609
 SEMINOLE COUNTY (407) 665-5686
 T W TELECOM (407) 215-6895
 TOWER CLOUD INC. (727) 471-5640
 UTILITIES INC OF FLORIDA PARK RIDGE (407) 869-1919
 VERIZON BUSINESS (813) 740-1231

MAINTAINING AGENCY:
 CITY OF WINTER PARK PUBLIC WORKS
 ENGINEERING
 401 SOUTH PARK AVENUE
 WINTER PARK, FL 32789
 (407) 599-3399

UTILITY COMPANY

AT&T DISTRIBUTION (813) 342-0512
 AT&T TRANSMISSION (813) 342-0512
 BRIGHTHOUSE NETWORKS (407) 532-8509
 CENTURY LINK (407) 814-5344
 CITY OF MAITLAND (407) 539-6216
 CITY OF ORLANDO - BUREAU OF WASTEWATER (407) 246-3525
 CITY OF ORLANDO TRAFFIC ENG SIGNAL FIBER (407) 246-2636
 CITY OF WINTER PARK (407) 691-7803
 COMCAST CABLEVISION (407) 849-3611
 CROWN CASTLE NG (724) 416-2028
 DUKE ENERGY FLORIDA, INC. (407) 942-9640
 FLORIDA GAS TRANSMISSION (407) 838-7171
 FPL FIBERNET (305) 552-2931
 KINDER MORGAN/CENTRAL FLORIDA PIPELINE (813) 241-1106
 LEVEL 3 COMMUNICATIONS (407) 754-0106 AND (407) 462-0609
 ORANGE COUNTY UTILITIES (407) 254-9718
 ORLANDO TELEPHONE COMPANY (727) 235-4362
 ORLANDO UTILITIES COMMISION (727) 235-4362 AND (407) 236-9651
 T W TELECOM (407) 215-6895
 TAFT WATER ASSOCIATION INC. (407) 855-8712
 TECO PEOPLES GAS - ORLANDO (407) 420-2678
 TOWER CLOUD INC. (727) 471-5640
 VERIZON BUSINESS (813) 740-1231
 WATER CONSERV II (407) 656-2332

MAINTAINING AGENCY:
 CONTROL SPECIALISTS
 707 NICOLET AVENUE
 SUITE 100
 WINTER PARK, FL 32789
 (407) 628-1965

TELEPHONE NUMBERS

(813) 342-0512
 (813) 342-0512
 (407) 532-8509
 (407) 814-5344
 (407) 585-1452
 (407) 688-5000 ext: 5423
 (407) 688-5101
 (407) 942-9640
 (407) 838-7171
 (386) 586-6432
 (386) 668-9842
 (407) 754-0106 AND (407) 462-0609
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 (407) 215-6895
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 (407) 869-1919
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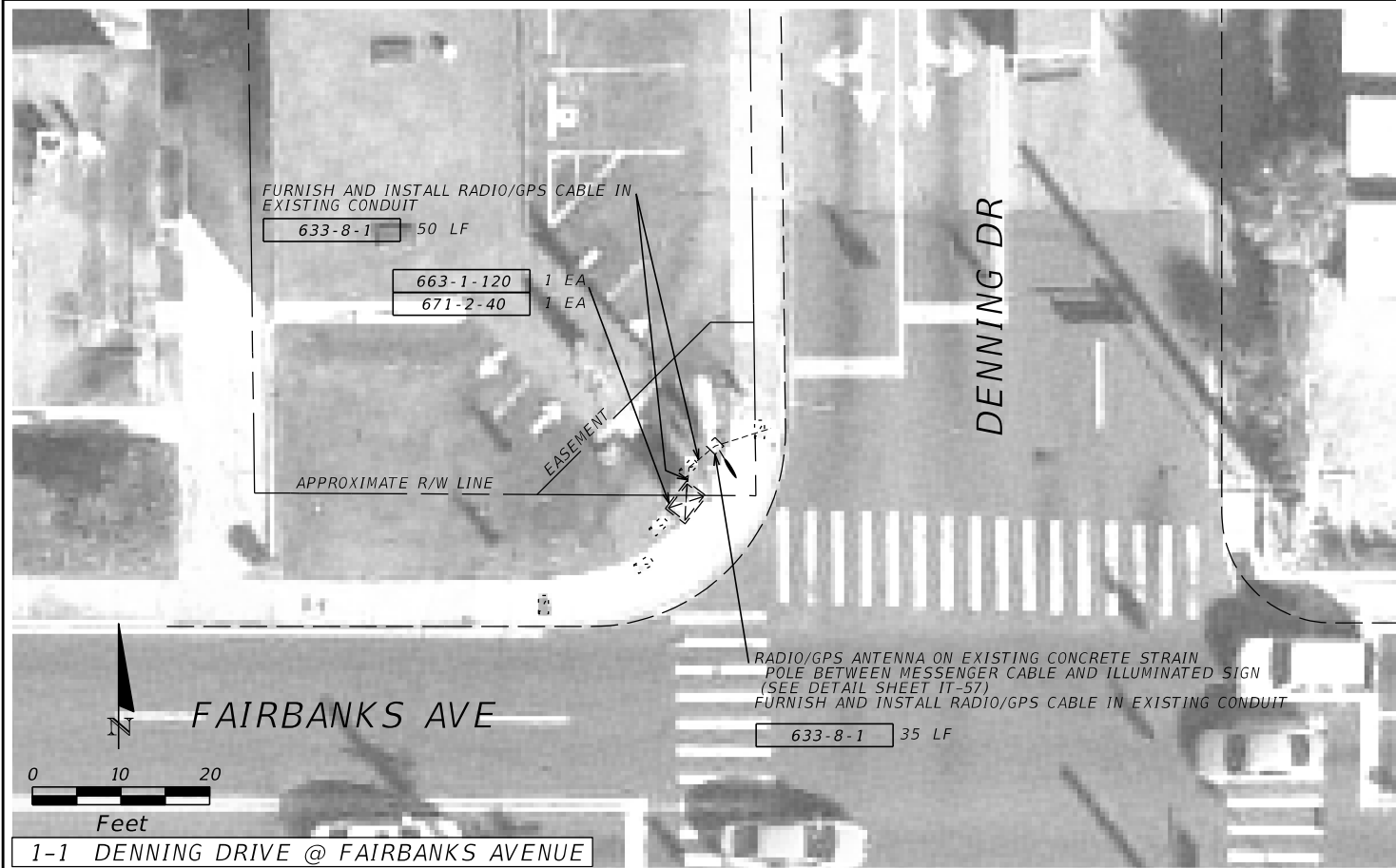
MAINTAINING AGENCY:
 CITY OF MAITLAND PUBLIC WORKS
 1776 INDEPENDENCE LANE
 MAITLAND, FL 32751
 (407) 539-6217

TELEPHONE NUMBERS

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 (407) 532-8509
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 (407) 246-2636
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 (407) 838-7171
 (305) 552-2931
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 (727) 235-4362
 (727) 235-4362 AND (407) 236-9651
 (407) 215-6895
 (407) 855-8712
 (407) 420-2678
 (727) 471-5640
 (813) 740-1231
 (407) 656-2332

* SEE SUMMARY OF QUANTITY SHEETS FOR APPROPRIATE MAINTAINING AGENCY.

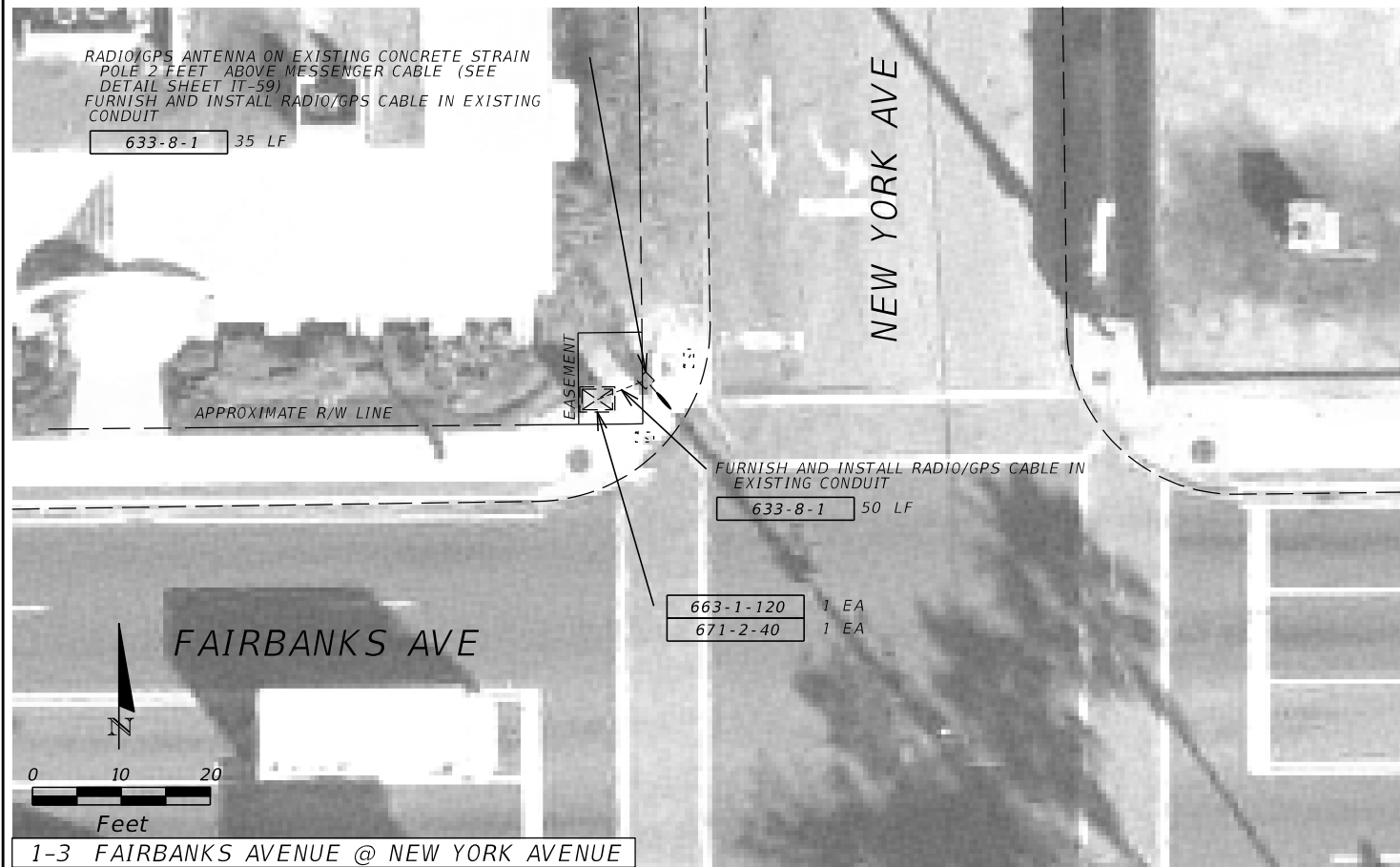
REVISIONS				METRIC ENGINEERING, INC. MICHAEL L. CORNEJO, P.E. # 47734 615 CRESCENT EXECUTIVE CT SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION 2294	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			GENERAL NOTES IT-15
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					VARIES	ORANGE SEMINOLE	435446-1-52-01	



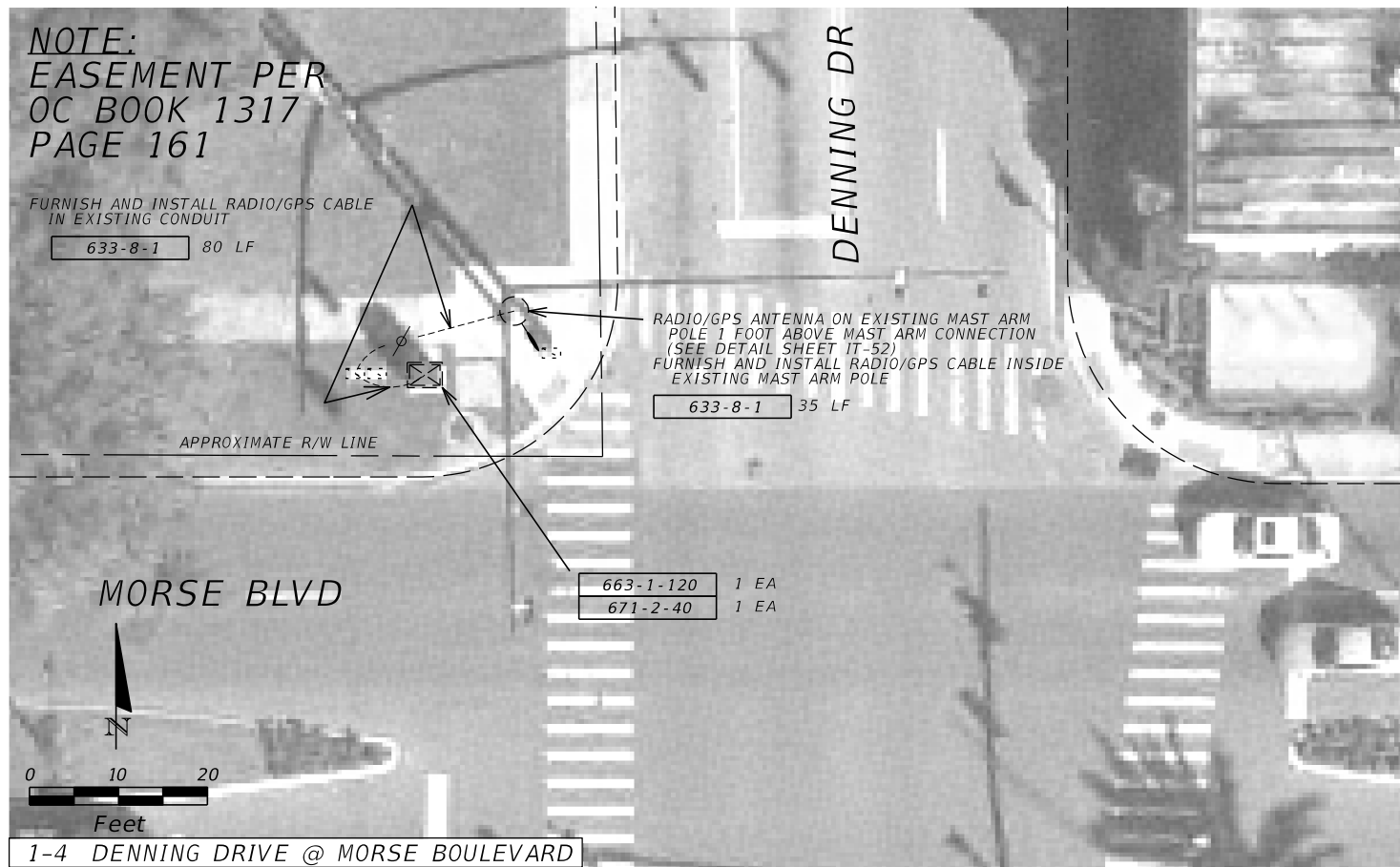
1-1 DENNING DRIVE @ FAIRBANKS AVENUE



1-2 FAIRBANKS AVENUE @ PENNSYLVANIA AVENUE/N ORANGE AVENUE



1-3 FAIRBANKS AVENUE @ NEW YORK AVENUE



1-4 DENNING DRIVE @ MORSE BOULEVARD

NOTE:
EASEMENT PER
OC BOOK 1317
PAGE 161

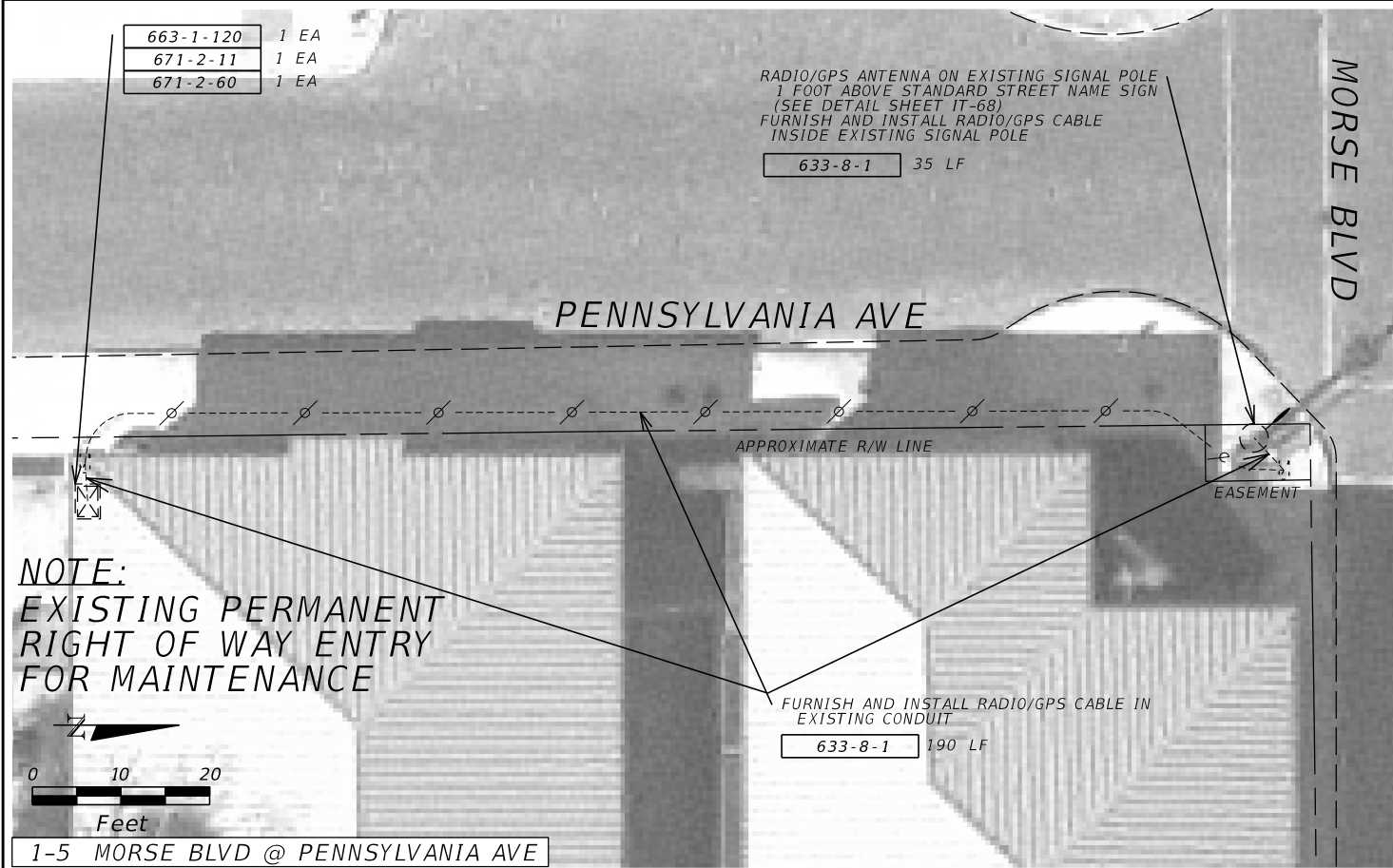
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KITTELSON & ASSOCIATES, INC.
TSZ SHING TSOI, P.E. # 75055
110 E BROWARD BLVD, SUITE 2410
FORT LAUDERDALE, FLORIDA 33301
TEL: (954) 828-1730
FAX: (954) 828-1787
CERTIFICATION OF AUTHORIZATION 7524

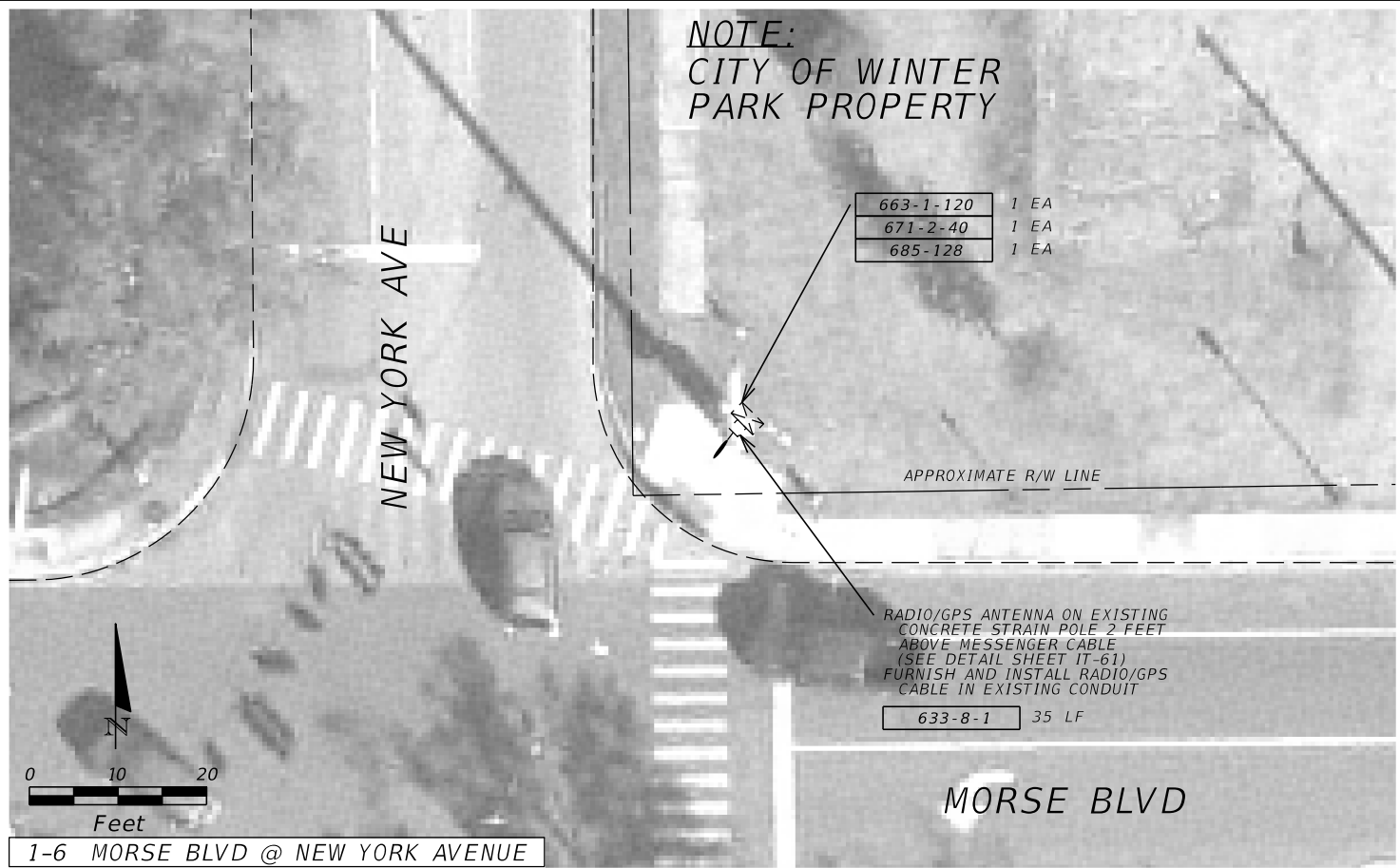
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
VARIES	ORANGE SEMINOLE	435446-1-52-01

PLAN SHEET		SHEET NO. IT-16
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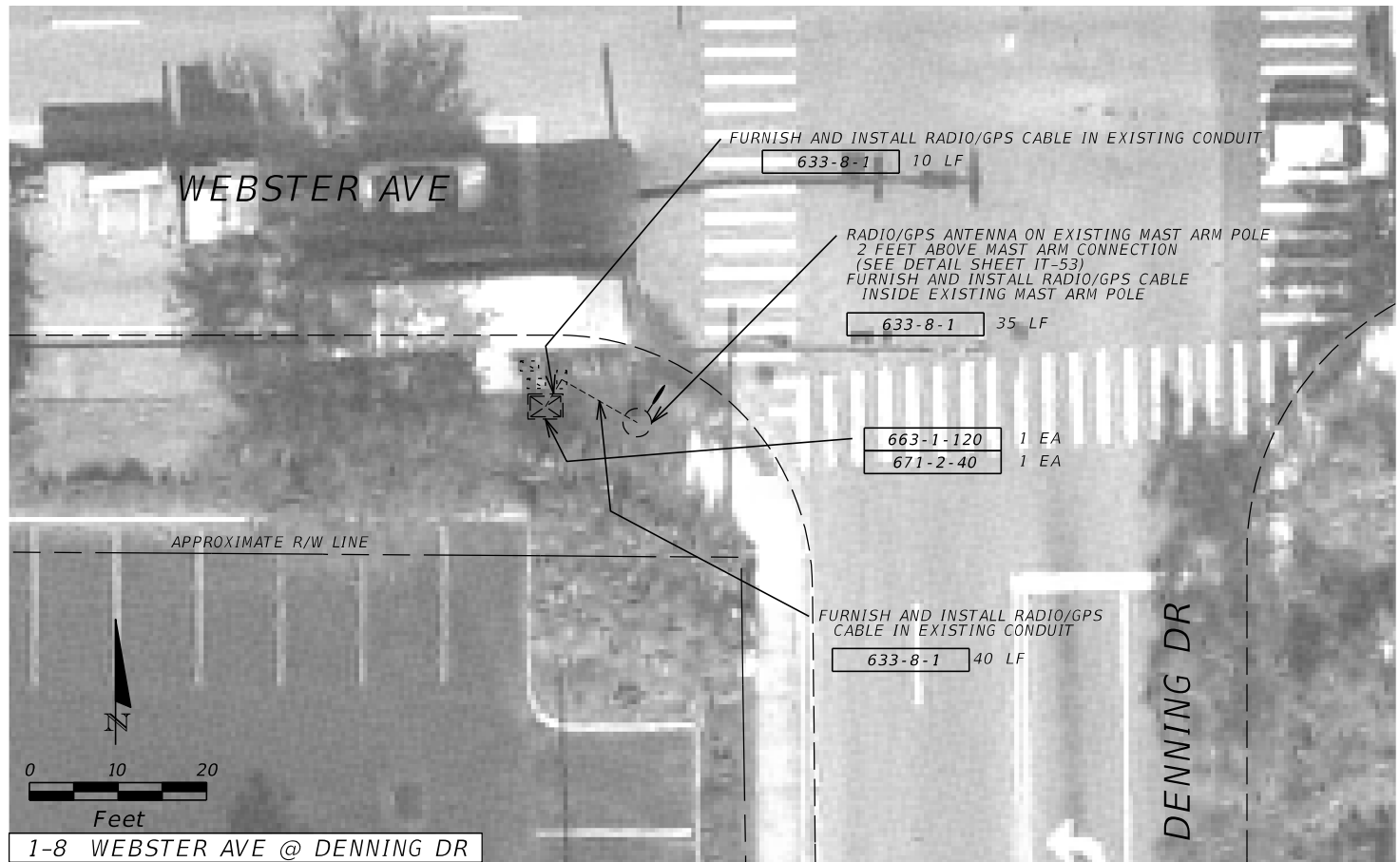
1-5 MORSE BLVD @ PENNSYLVANIA AVE



1-6 MORSE BLVD @ NEW YORK AVENUE



1-7 DENNING DR @ CANTON AVE



1-8 WEBSTER AVE @ DENNING DR

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KITTELSON & ASSOCIATES, INC.
 TSZ SHING TSOI, P.E. # 75055
 110 E BROWARD BLVD, SUITE 2410
 FORT LAUDERDALE, FLORIDA 33301
 TEL: (954) 828-1730
 FAX: (954) 828-1787
 CERTIFICATION OF AUTHORIZATION 7524

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
VARIES	ORANGE SEMINOLE	435446-1-52-01

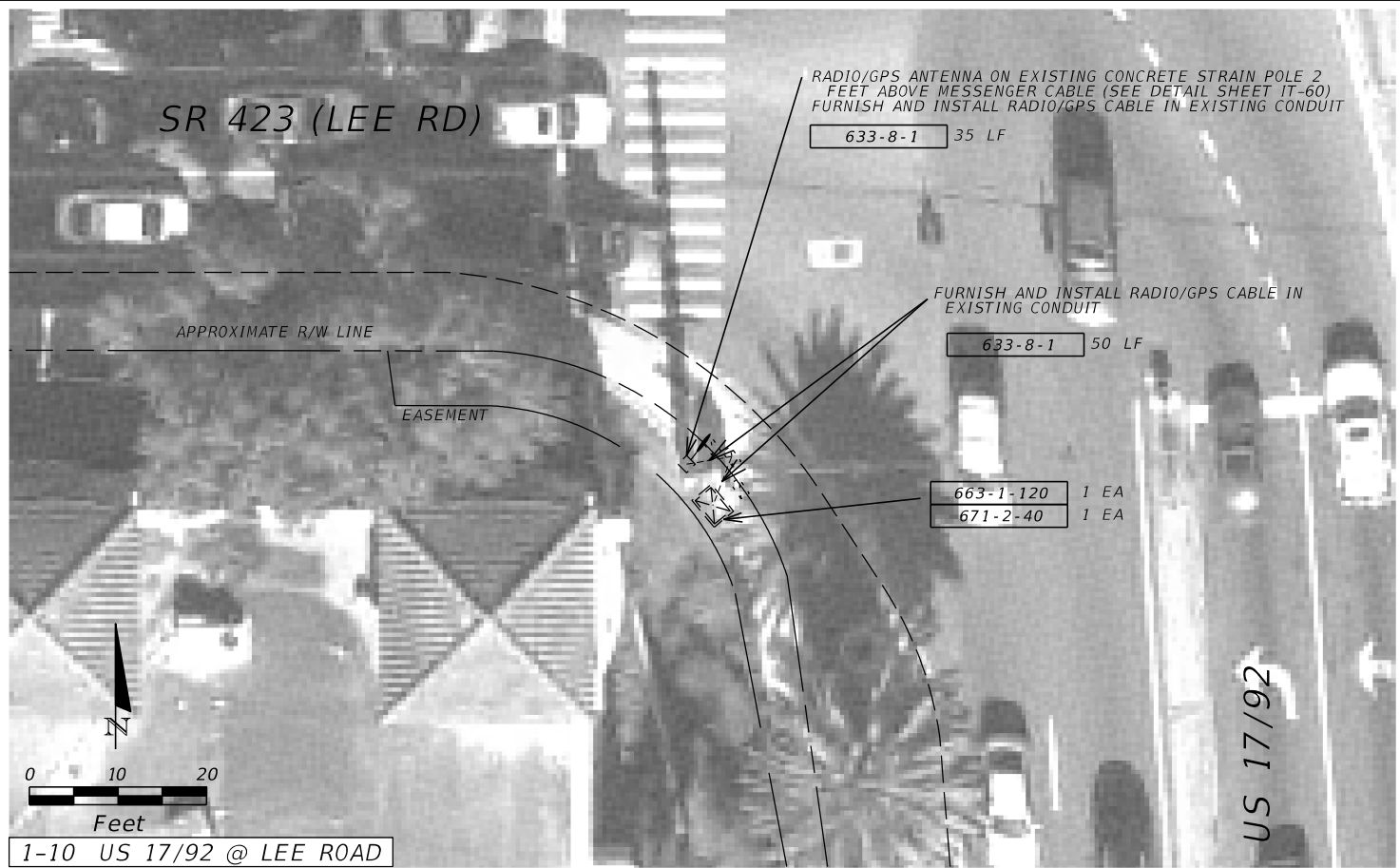
PLAN SHEET

SHEET NO.
IT-17

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1-9 US 17/92 @ WEBSTER AVENUE



1-10 US 17/92 @ LEE ROAD



1-11 US 17/92 @ PARK AVENUE



1-12 US 17/92 @ MAGNOLIA ROAD

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

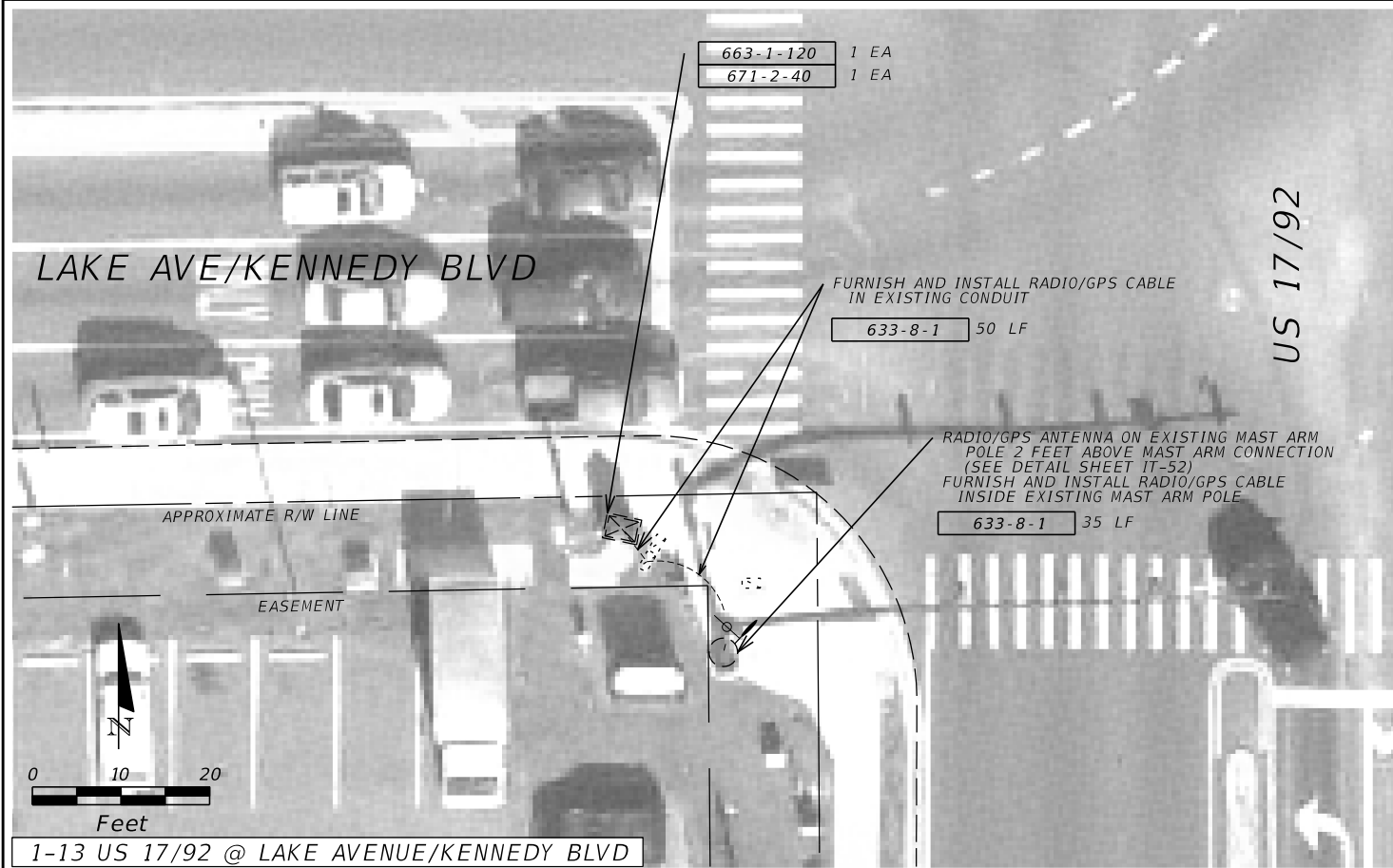
KITTELSON & ASSOCIATES, INC.
 TSZ SHING TSOI, P.E. # 75055
 110 E BROWARD BLVD, SUITE 2410
 FORT LAUDERDALE, FLORIDA 33301
 TEL: (954) 828-1730
 FAX: (954) 828-1787
 CERTIFICATION OF AUTHORIZATION 7524

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
VARIES	ORANGE SEMINOLE	435446-1-52-01

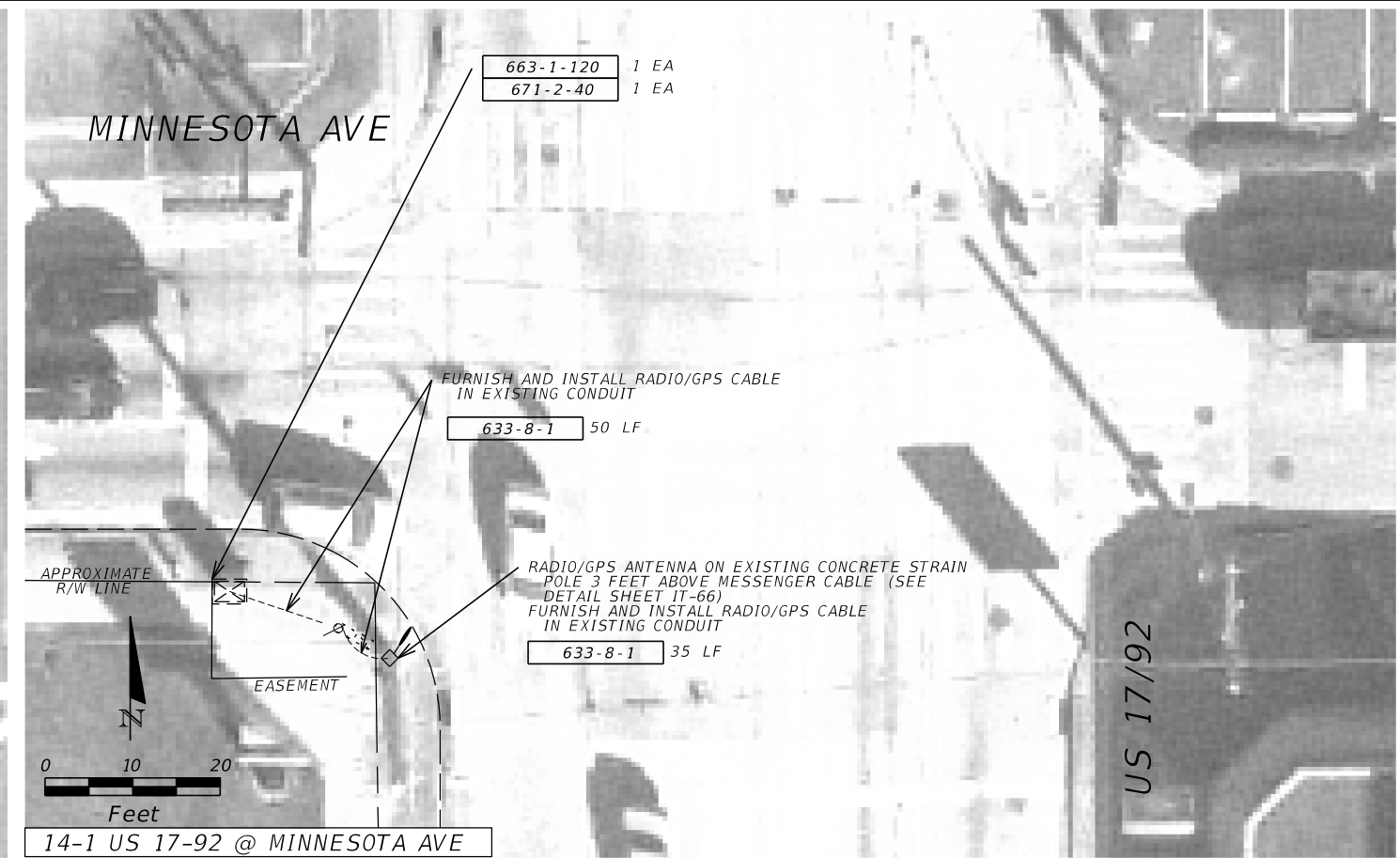
PLAN SHEET

SHEET NO.
IT-18

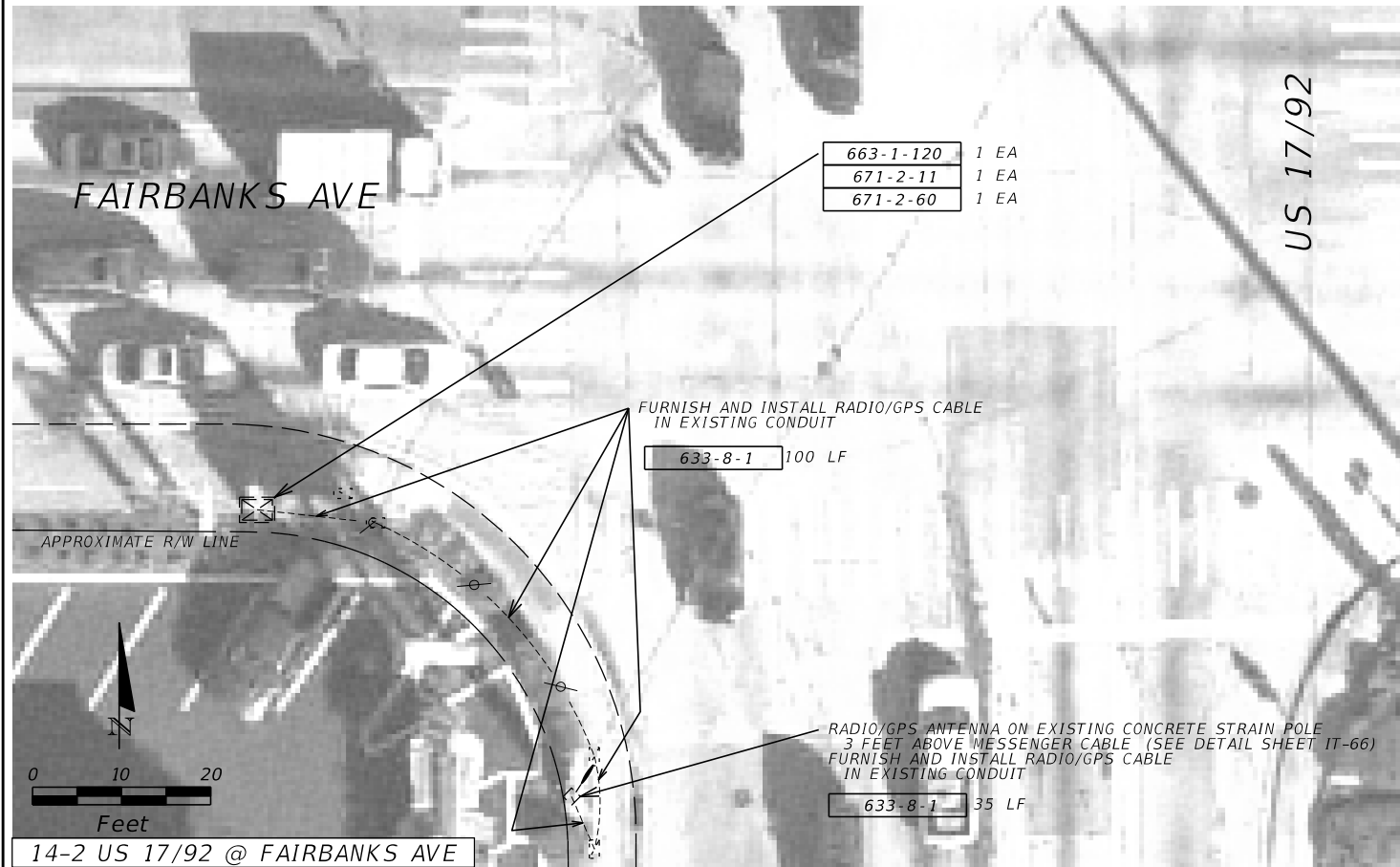
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1-13 US 17/92 @ LAKE AVENUE/KENNEDY BLVD



14-1 US 17-92 @ MINNESOTA AVE



14-2 US 17/92 @ FAIRBANKS AVE



14-3 US 17/92 @ MORSE BLVD

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

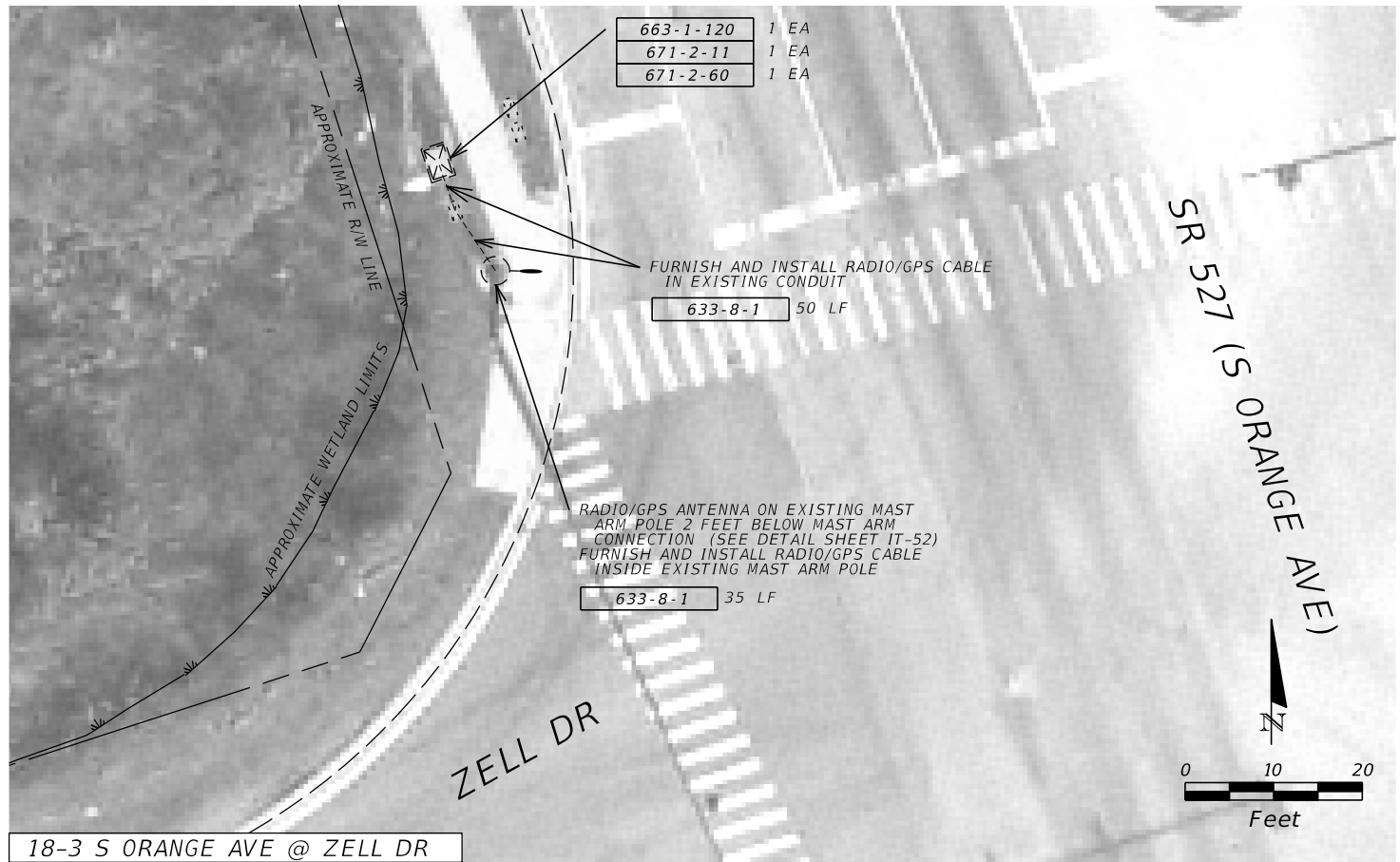
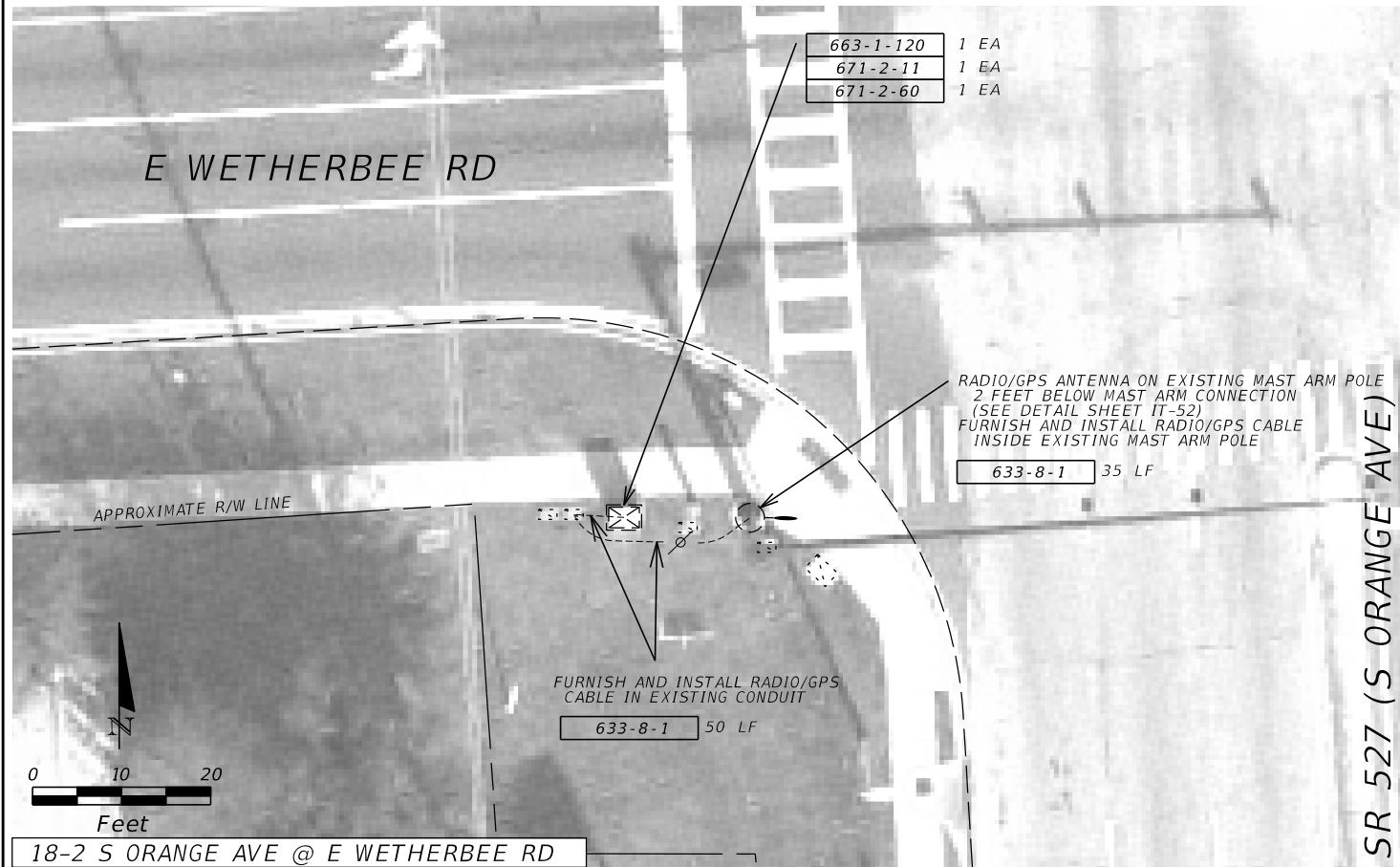
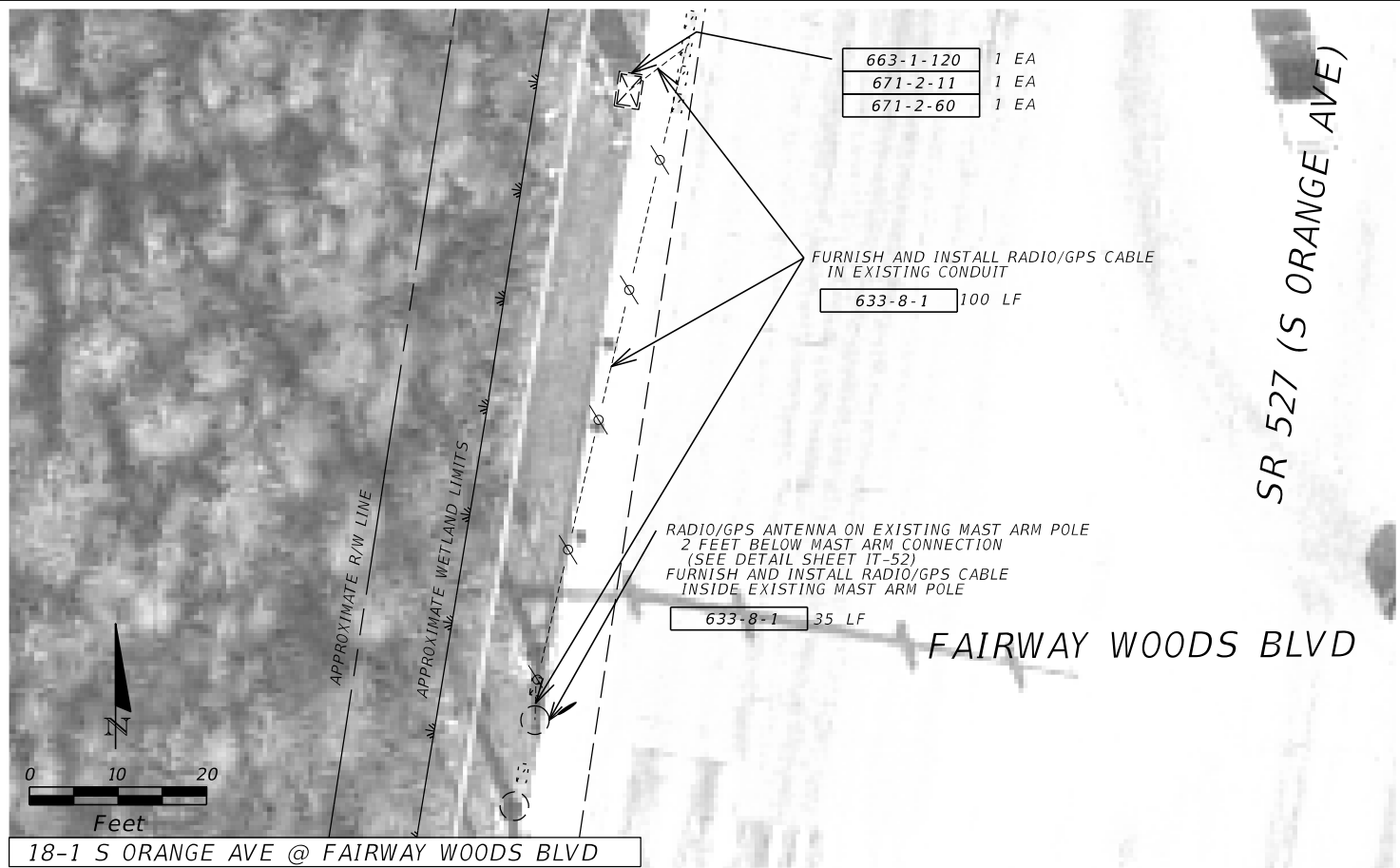
KITTELSON & ASSOCIATES, INC.
 TSZ SHING TSOI, P.E. # 75055
 110 E BROWARD BLVD, SUITE 2410
 FORT LAUDERDALE, FLORIDA 33301
 TEL: (954) 828-1730
 FAX: (954) 828-1787
 CERTIFICATION OF AUTHORIZATION 7524

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
VARIES	ORANGE SEMINOLE	435446-1-52-01

PLAN SHEET

SHEET NO.
IT-19

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

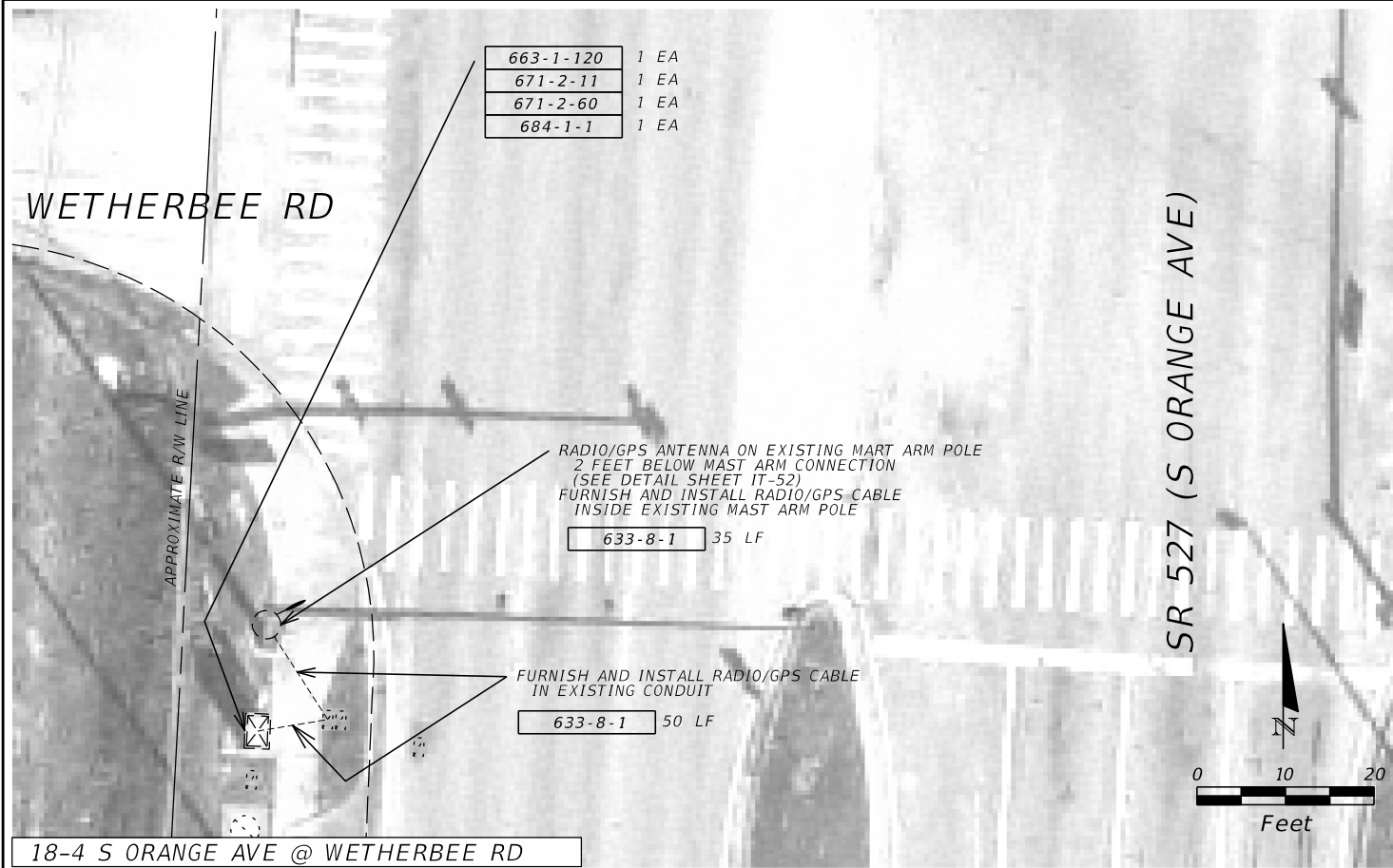
KITTELSON & ASSOCIATES, INC.
TSZ SHING TSOI, P.E. # 75055
110 E BROWARD BLVD, SUITE 2410
FORT LAUDERDALE, FLORIDA 33301
TEL: (954) 828-1730
FAX: (954) 828-1787
CERTIFICATION OF AUTHORIZATION 7524

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
VARIES	ORANGE SEMINOLE	435446-1-52-01

PLAN SHEET

SHEET NO.
IT-20

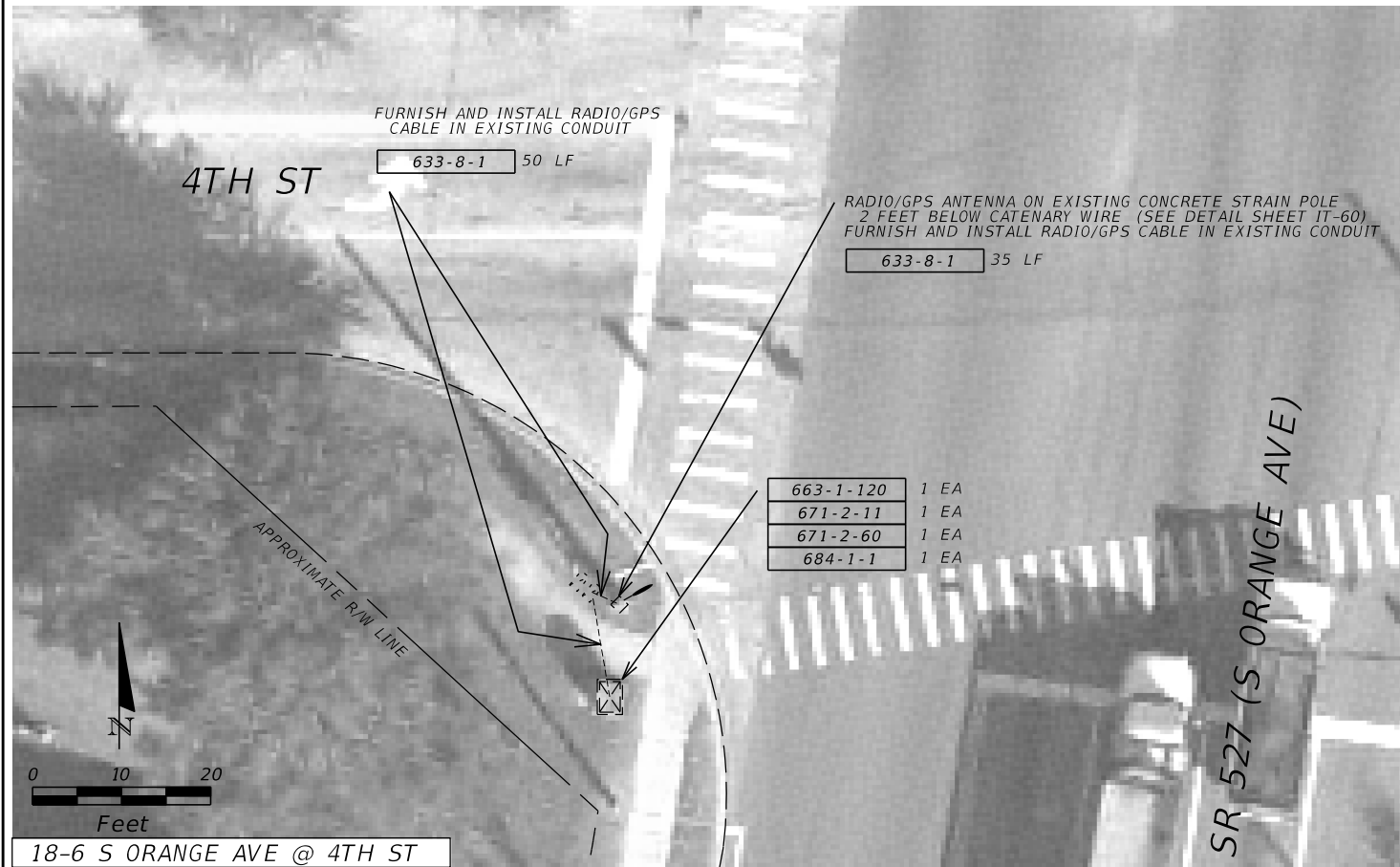
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



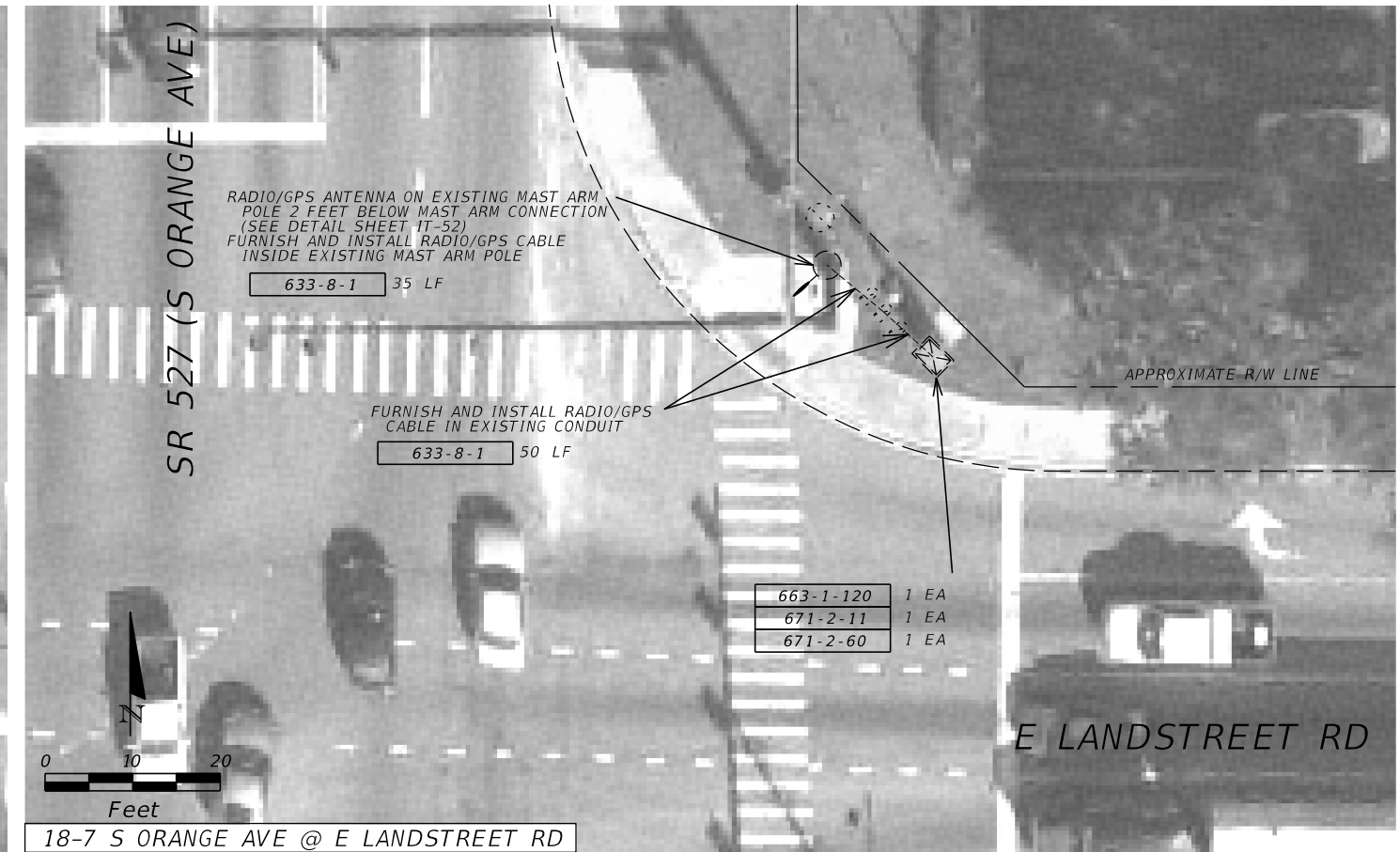
18-4 S ORANGE AVE @ WETHERBEE RD



18-5 ORANGE AVE @ TAFT VINELAND RD



18-6 S ORANGE AVE @ 4TH ST



18-7 S ORANGE AVE @ E LANDSTREET RD

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

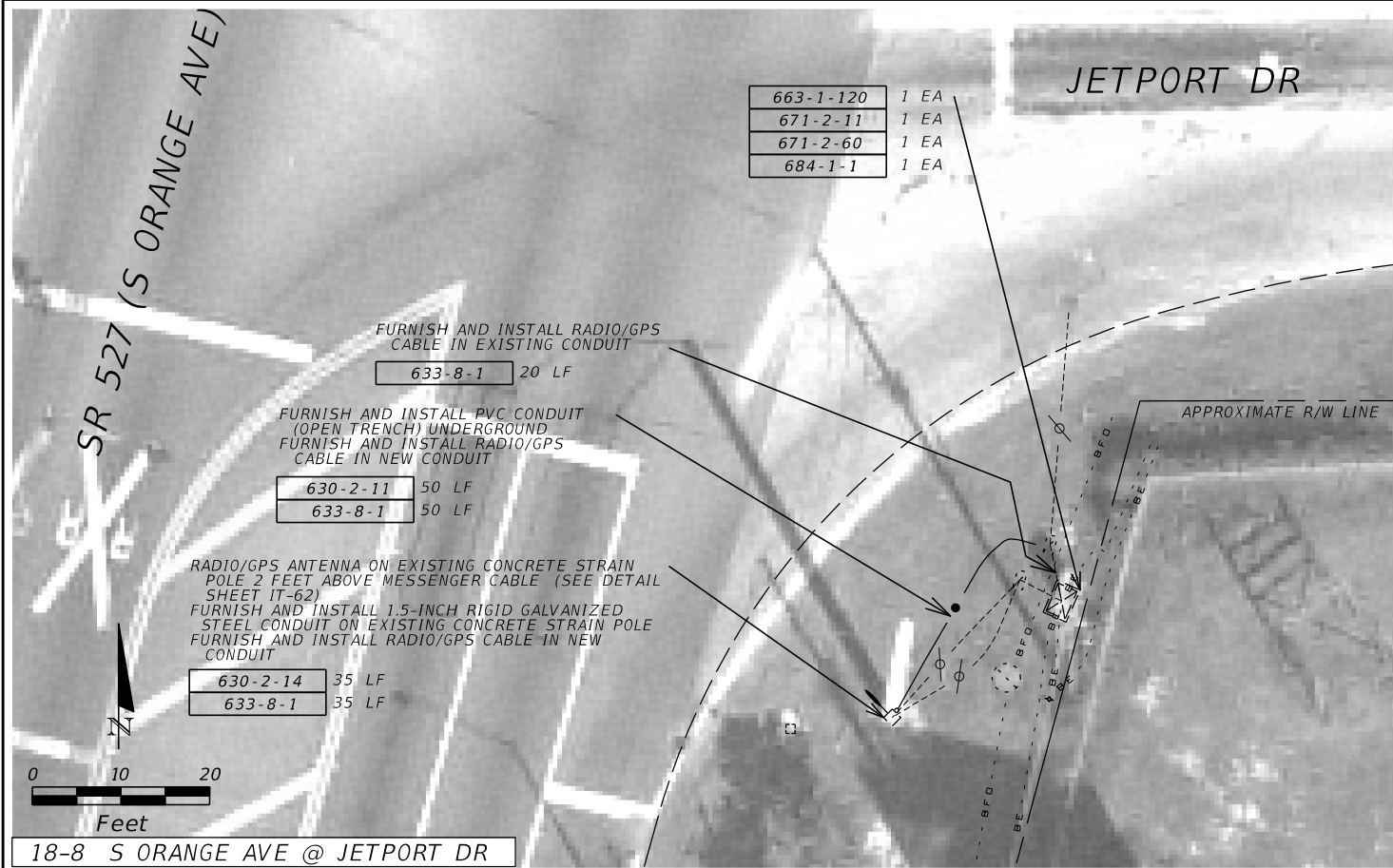
KITTELSON & ASSOCIATES, INC.
 TSZ SHING TSOI, P.E. # 75055
 110 E BROWARD BLVD, SUITE 2410
 FORT LAUDERDALE, FLORIDA 33301
 TEL: (954) 828-1730
 FAX: (954) 828-1787
 CERTIFICATION OF AUTHORIZATION 7524

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
VARIES	ORANGE SEMINOLE	435446-1-52-01

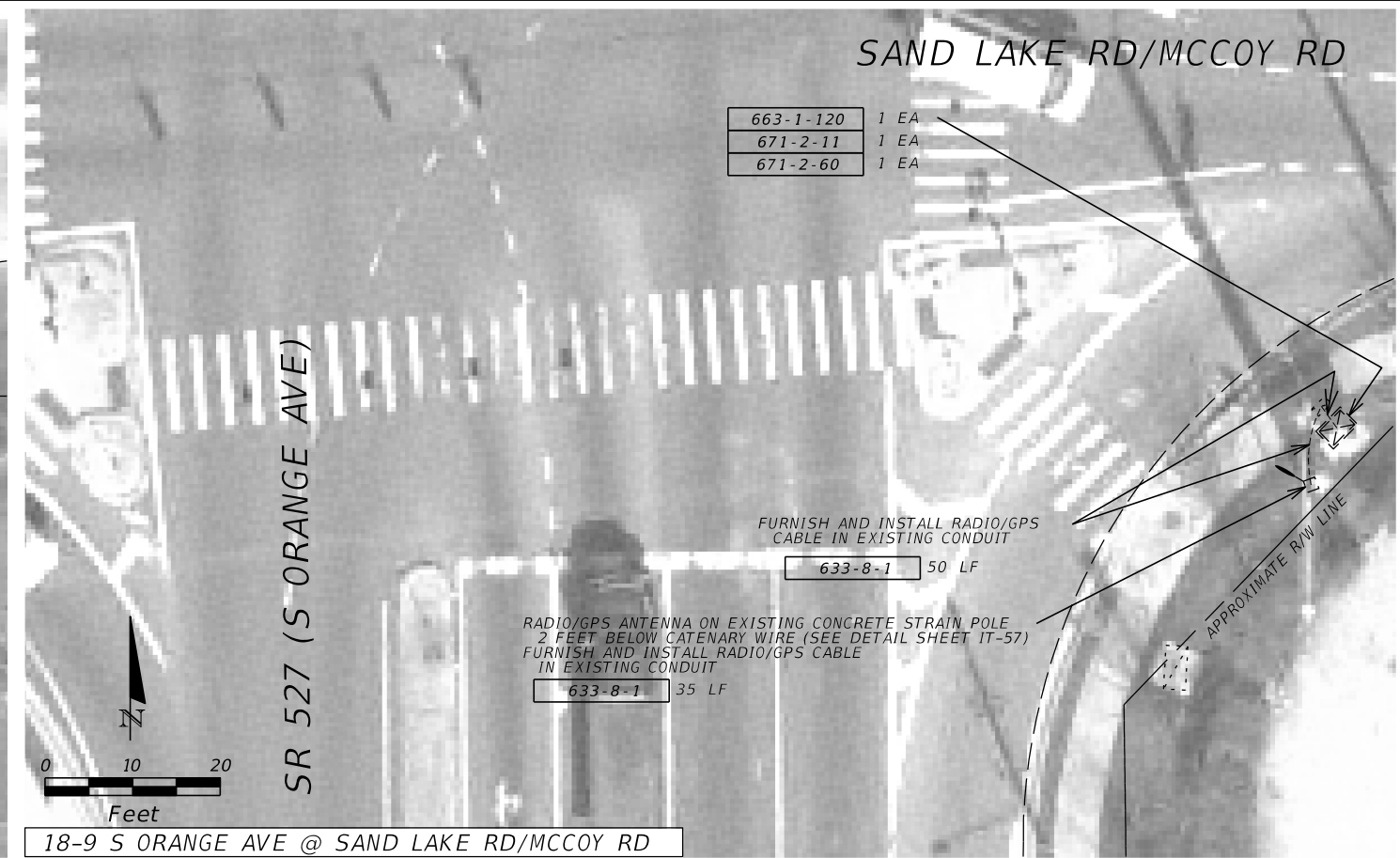
PLAN SHEET

SHEET NO.
IT-21

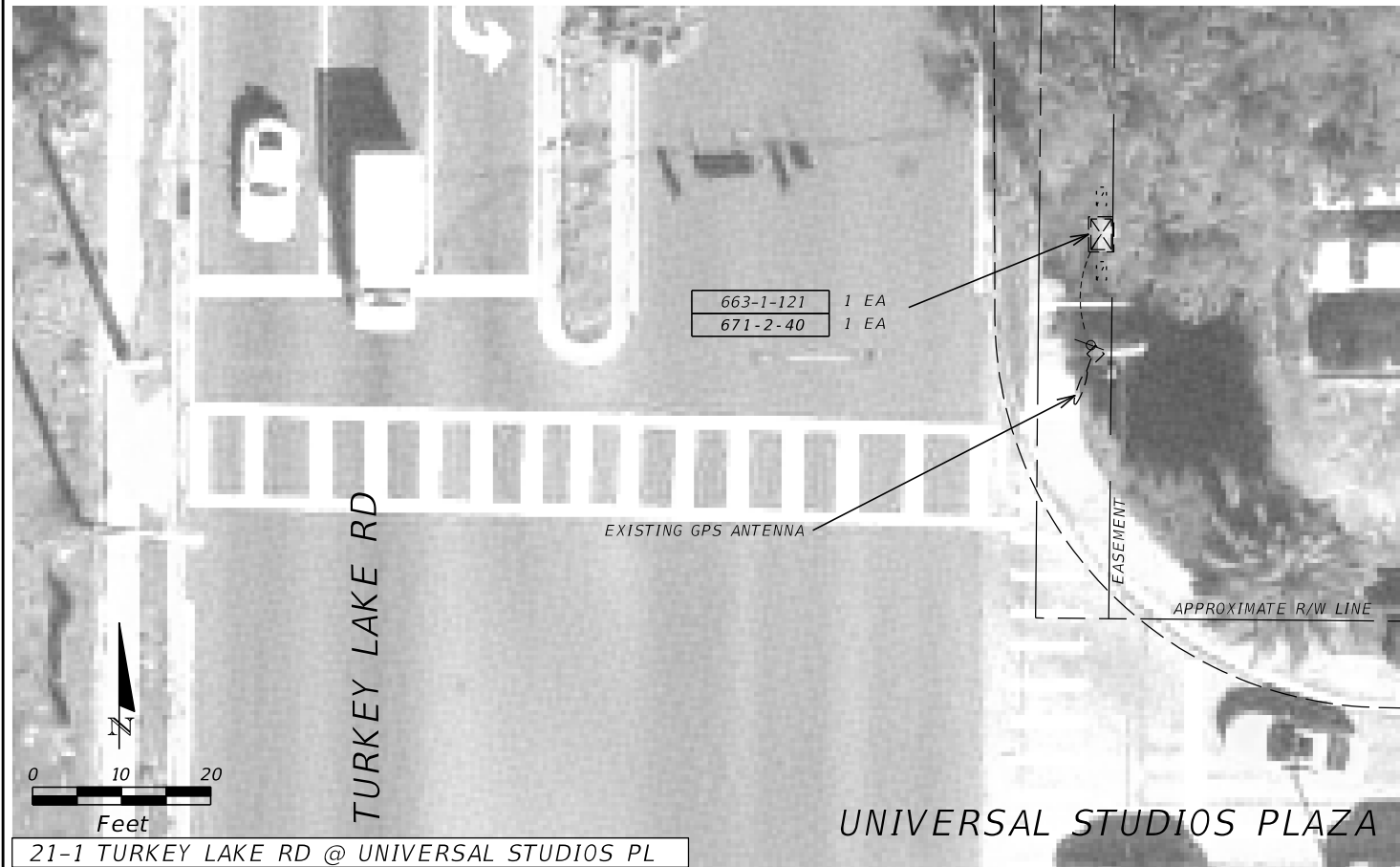
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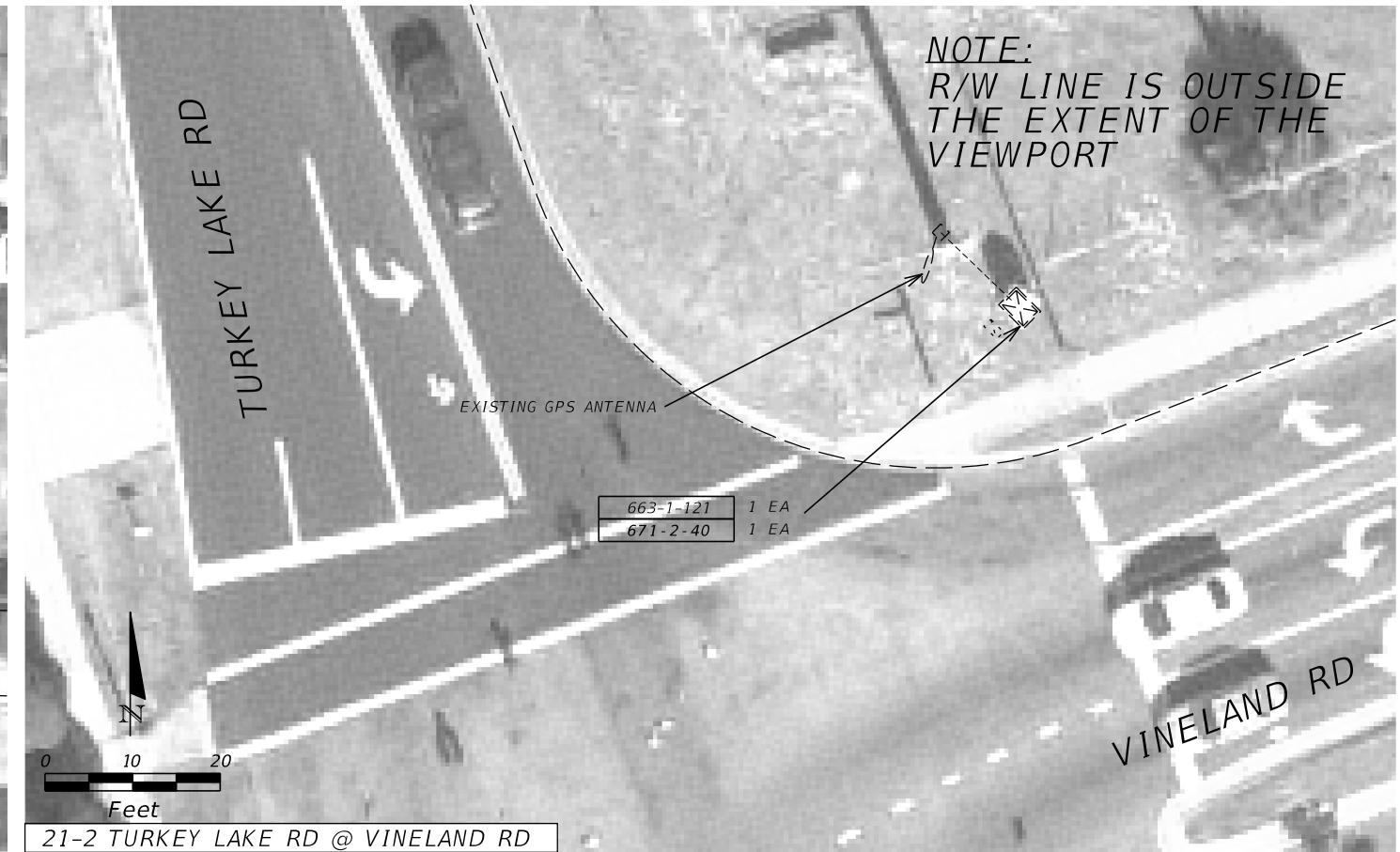
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18-9 S ORANGE AVE @ SAND LAKE RD/MCCOY RD



21-1 TURKEY LAKE RD @ UNIVERSAL STUDIOS PL



21-2 TURKEY LAKE RD @ VINELAND RD

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

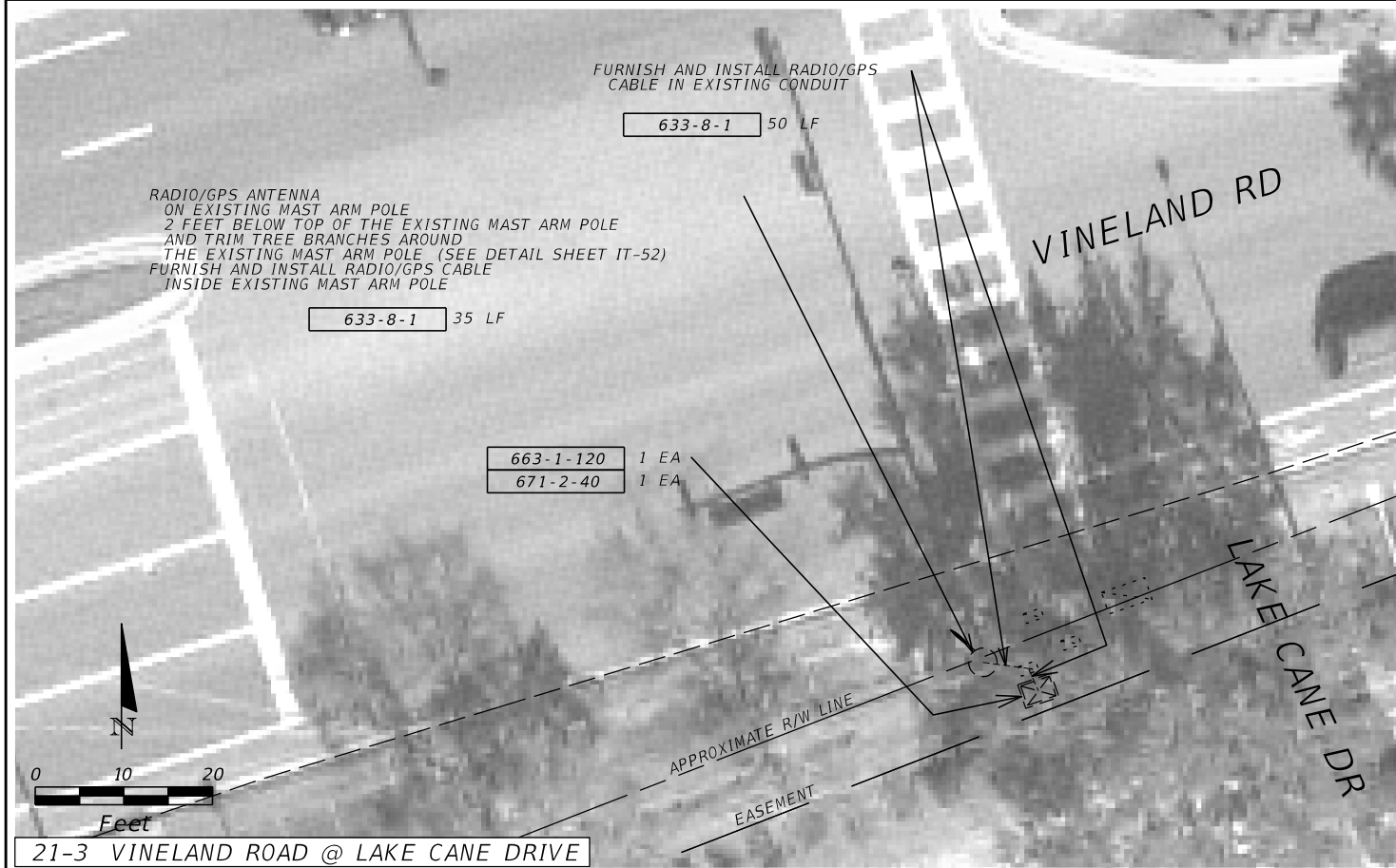
KITTELSON & ASSOCIATES, INC.
 TSZ SHING TSOI, P.E. # 75055
 110 E BROWARD BLVD, SUITE 2410
 FORT LAUDERDALE, FLORIDA 33301
 TEL: (954) 828-1730
 FAX: (954) 828-1787
 CERTIFICATION OF AUTHORIZATION 7524

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
VARIES	ORANGE SEMINOLE	435446-1-52-01

PLAN SHEET

SHEET NO.
IT-22

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



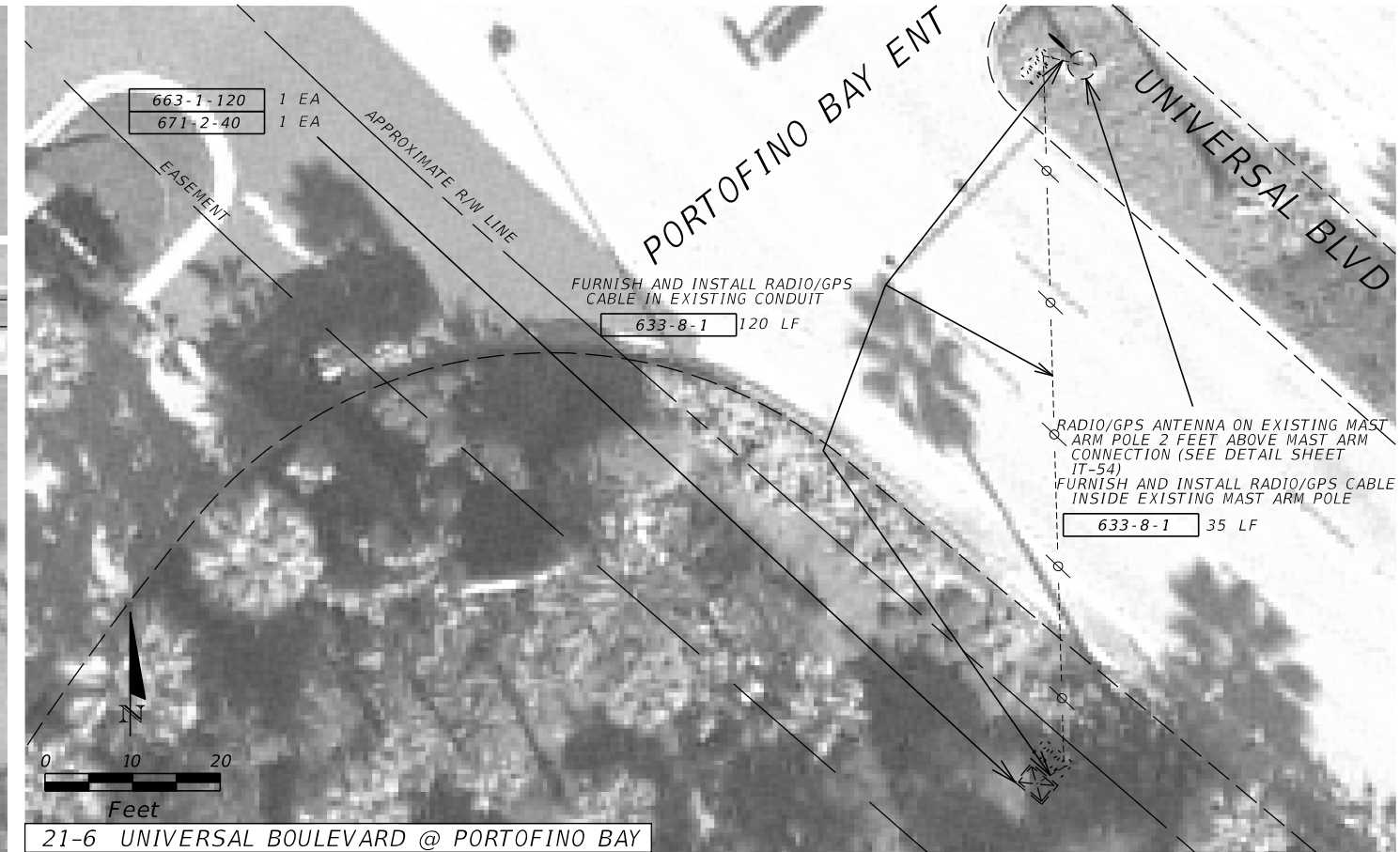
21-3 VINELAND ROAD @ LAKE CANE DRIVE



21-4 VINELAND ROAD @ CHERYL STREET



21-5 VINELAND ROAD @ UNIVERSAL BOULEVARD



21-6 UNIVERSAL BOULEVARD @ PORTOFINO BAY

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

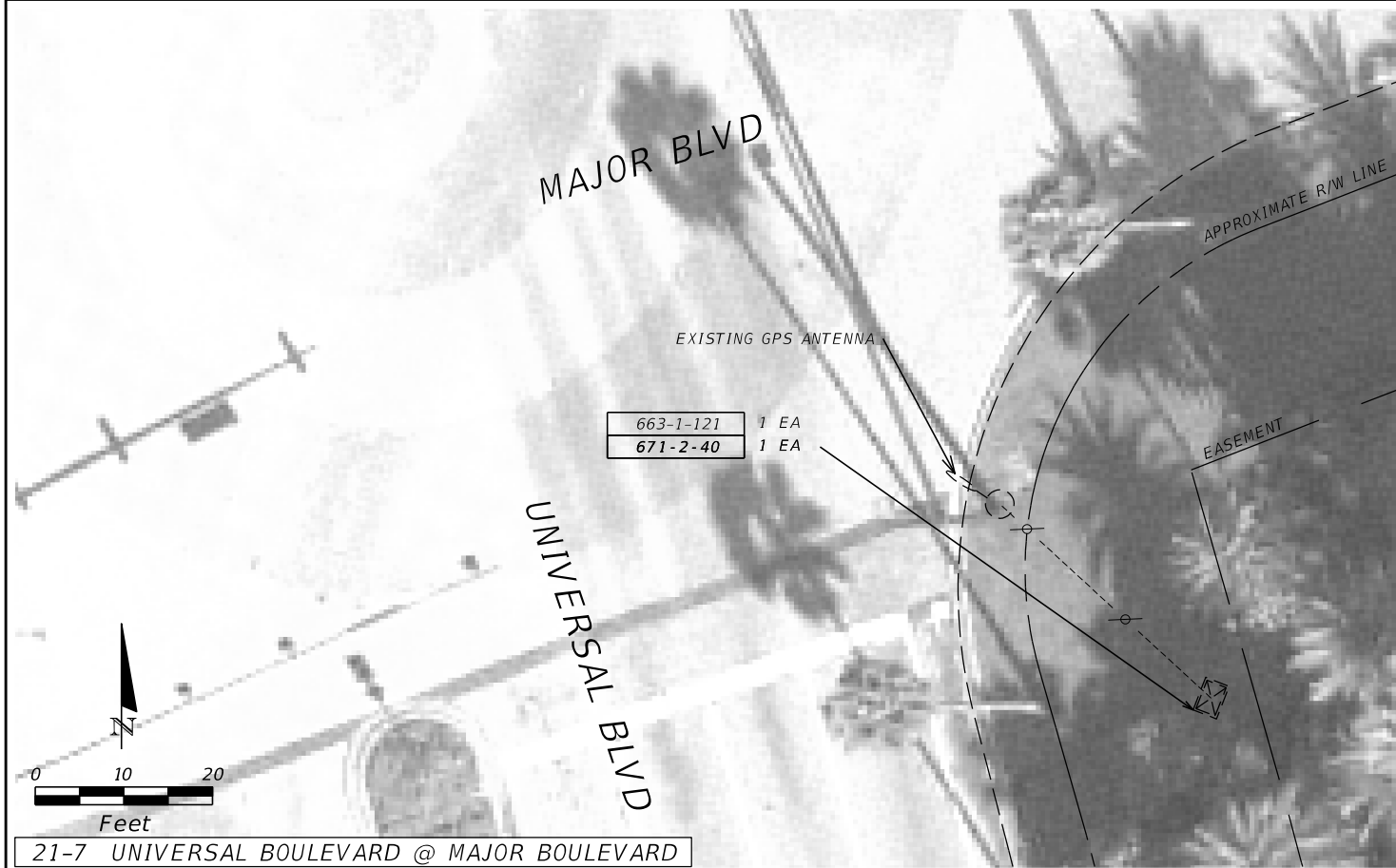
KITTELSON & ASSOCIATES, INC.
TSZ SHING TSOI, P.E. # 75055
110 E BROWARD BLVD, SUITE 2410
FORT LAUDERDALE, FLORIDA 33301
TEL: (954) 828-1730
FAX: (954) 828-1787
CERTIFICATION OF AUTHORIZATION 7524

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
VARIES	ORANGE SEMINOLE	435446-1-52-01

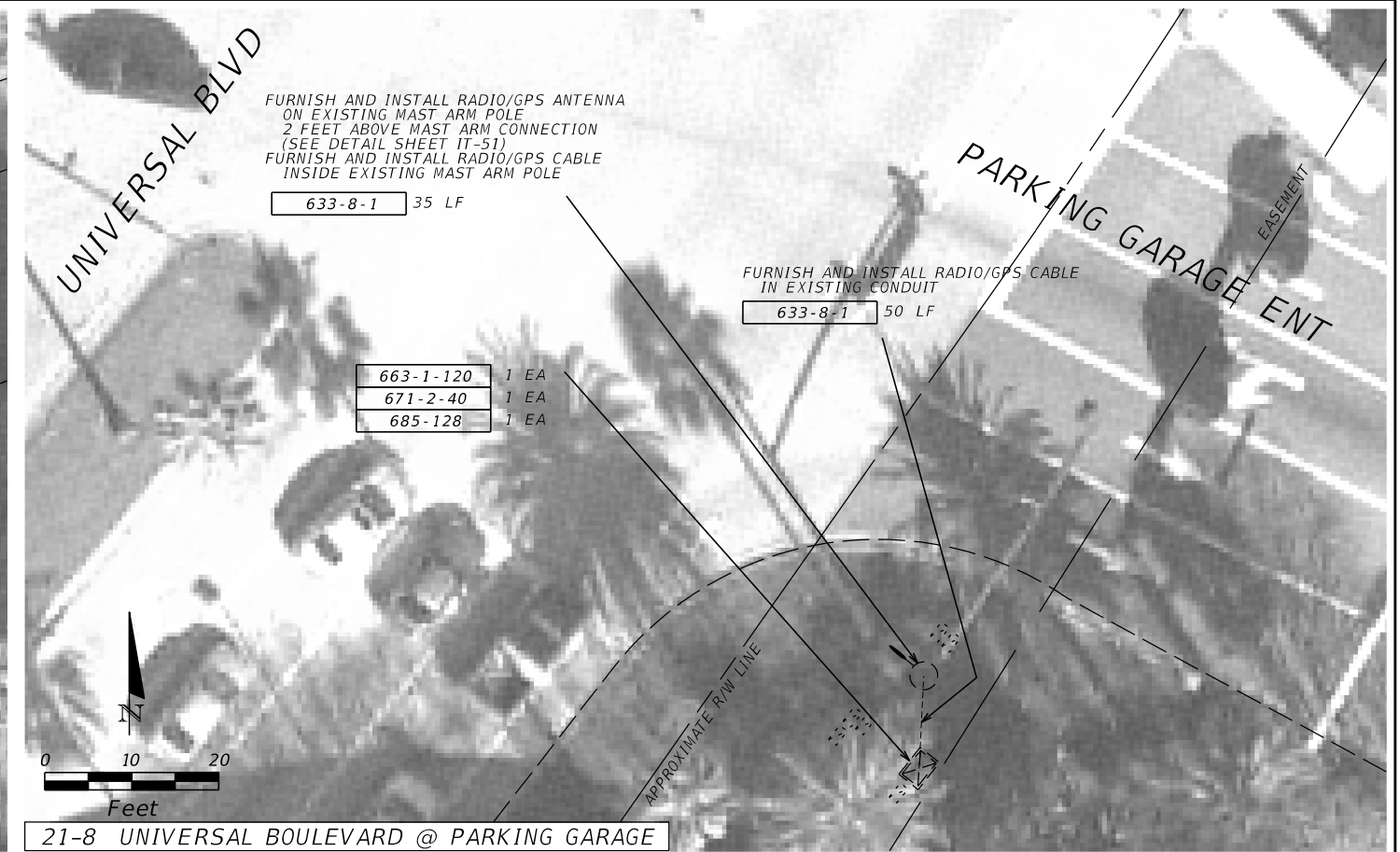
PLAN SHEET

SHEET NO.
IT-23

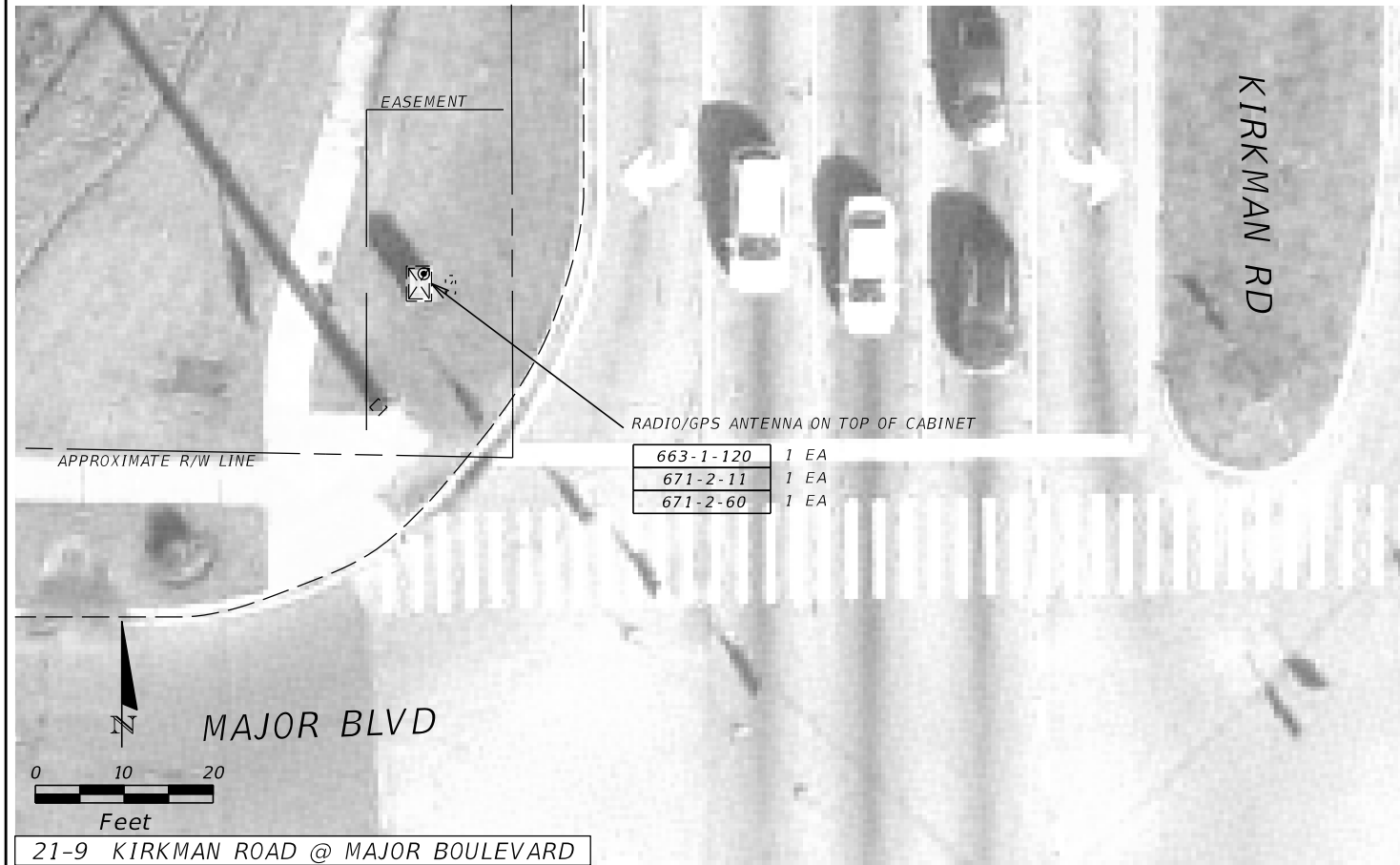
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



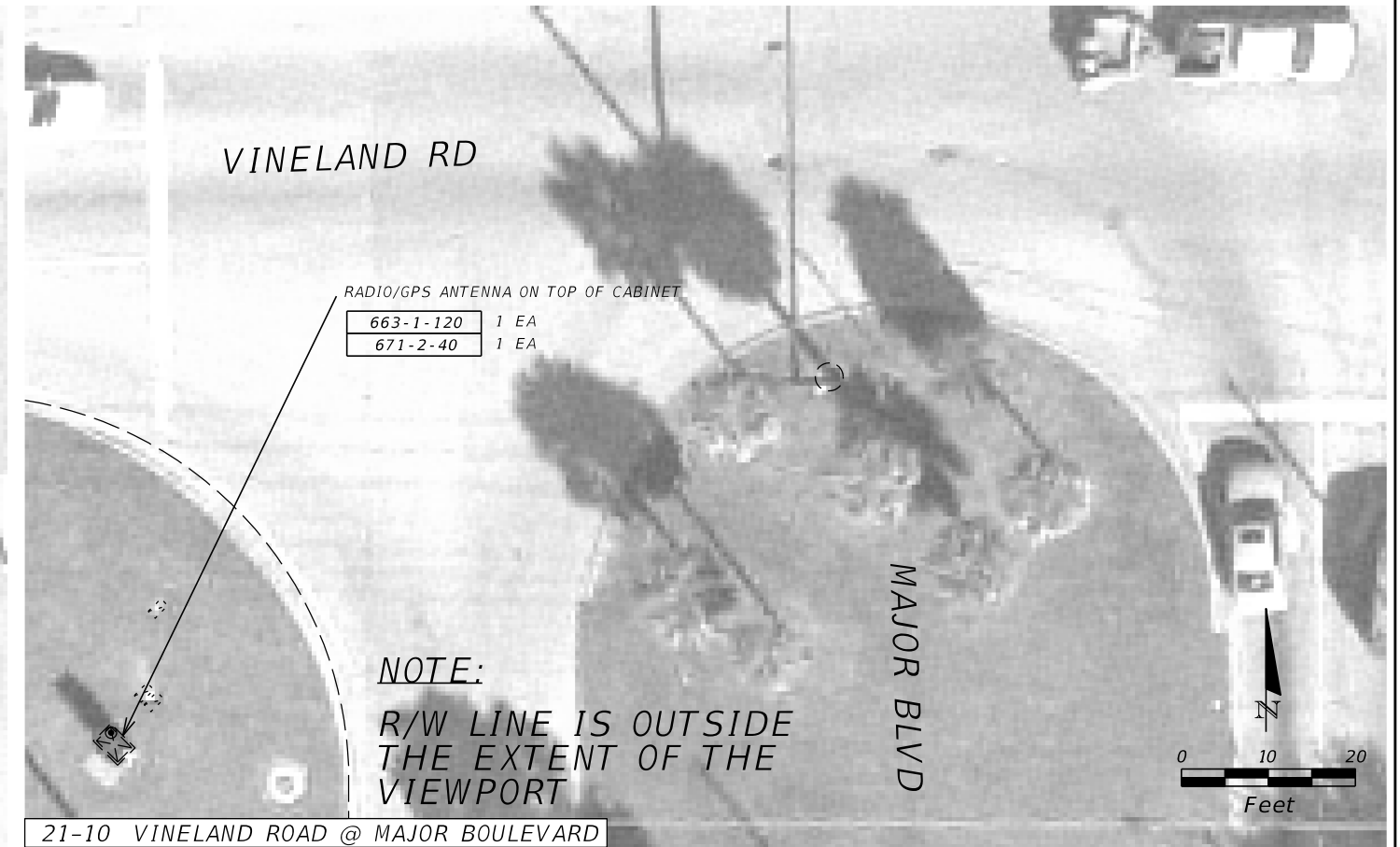
21-7 UNIVERSAL BOULEVARD @ MAJOR BOULEVARD



21-8 UNIVERSAL BOULEVARD @ PARKING GARAGE



21-9 KIRKMAN ROAD @ MAJOR BOULEVARD



21-10 VINELAND ROAD @ MAJOR BOULEVARD

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

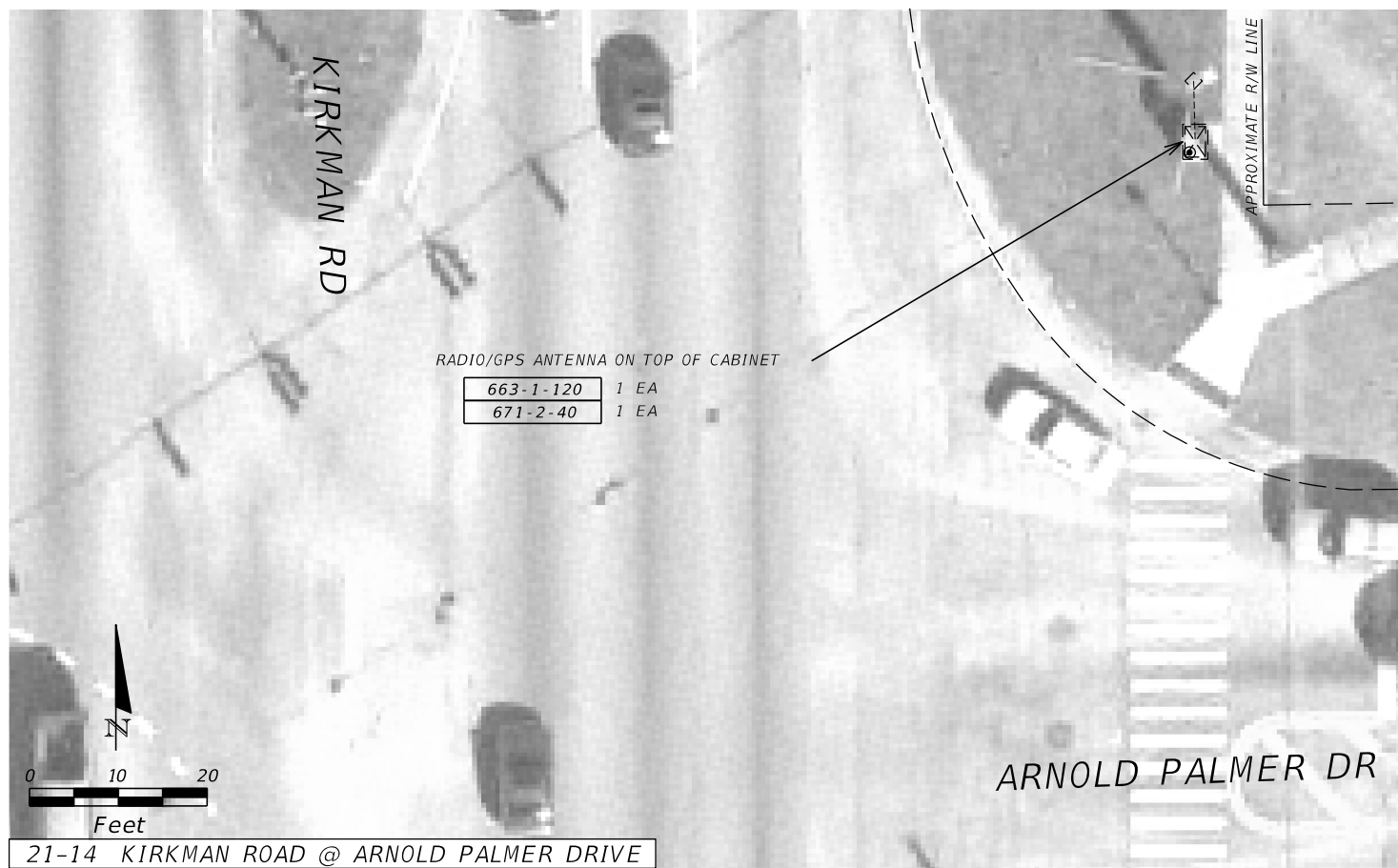
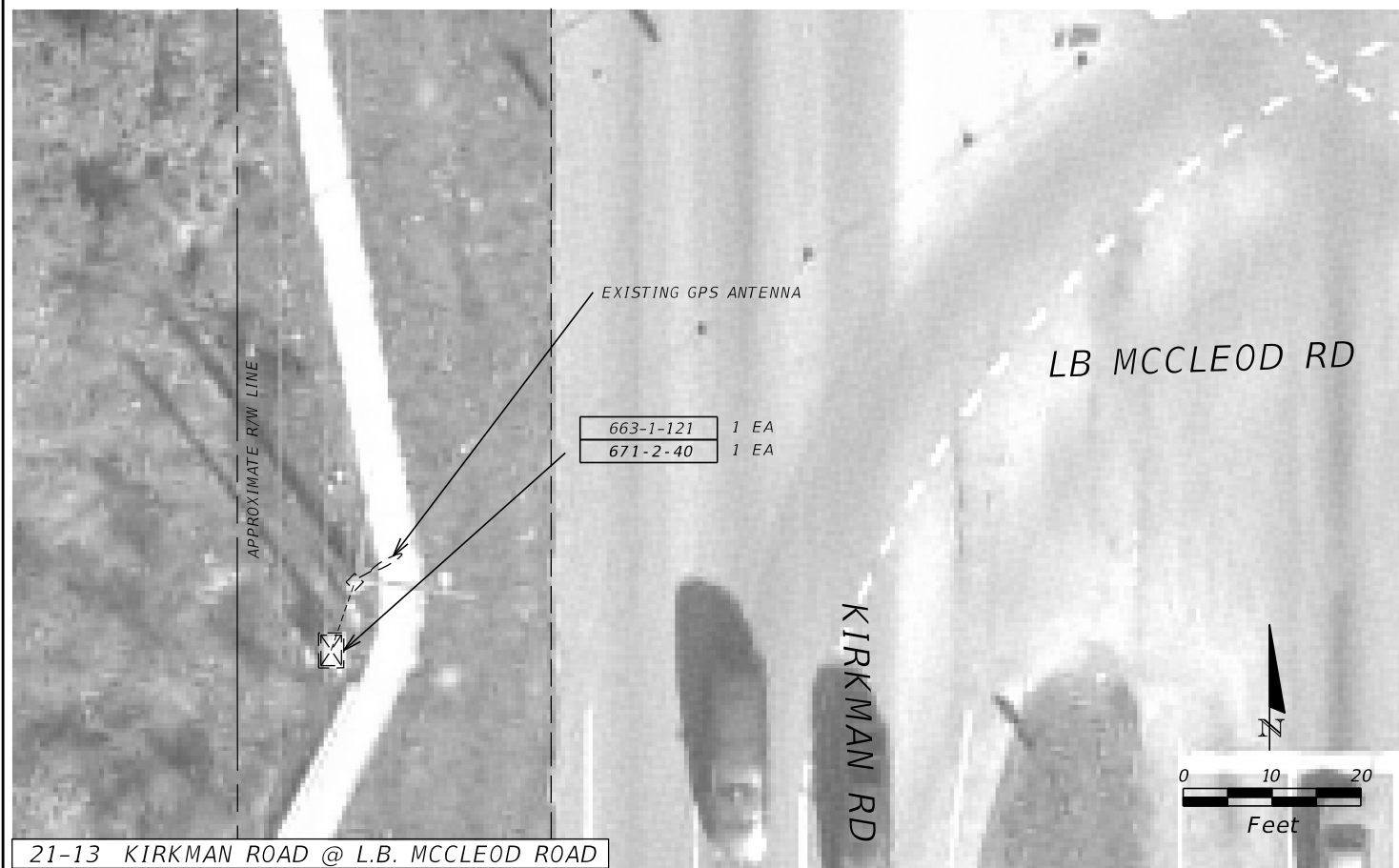
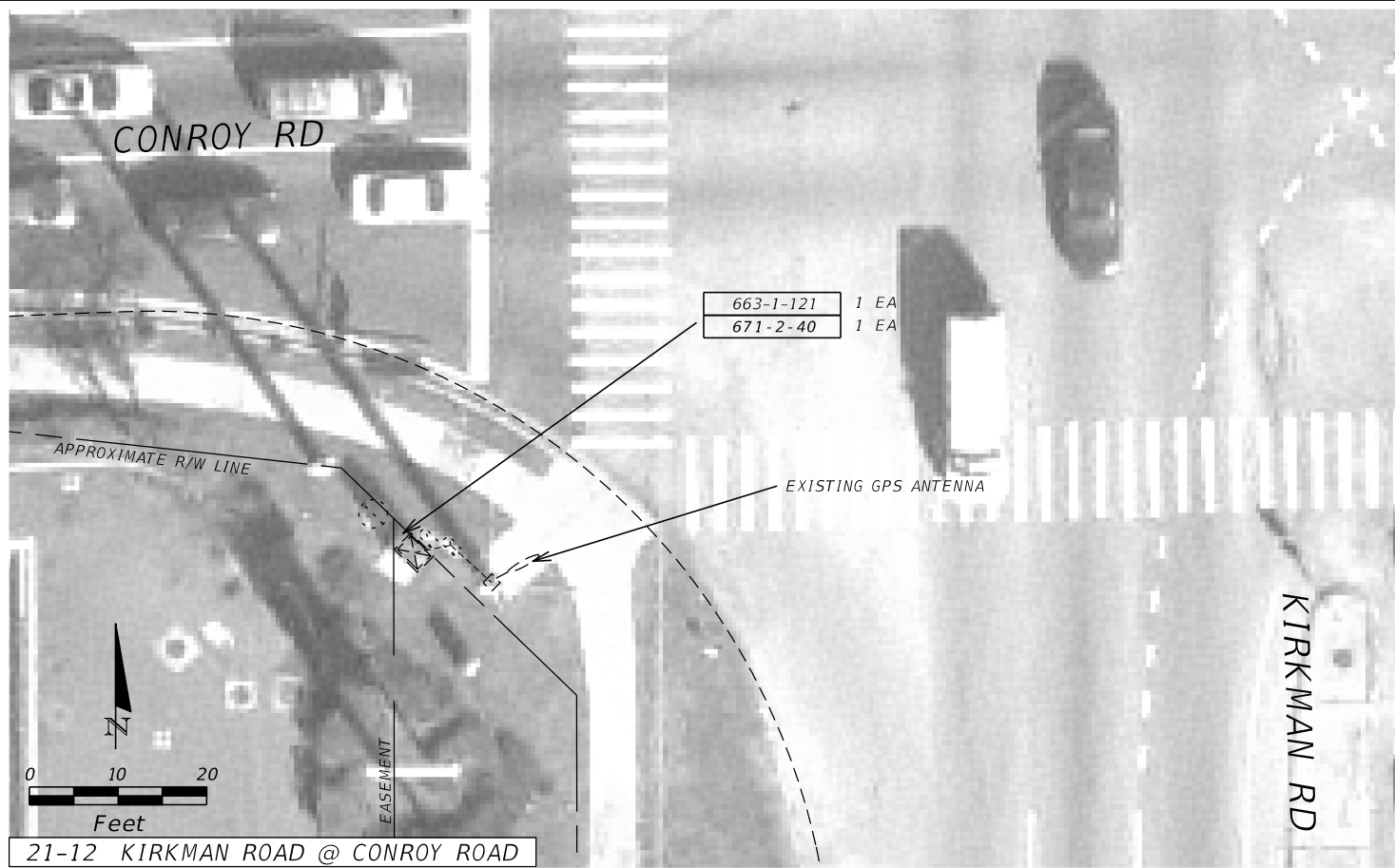
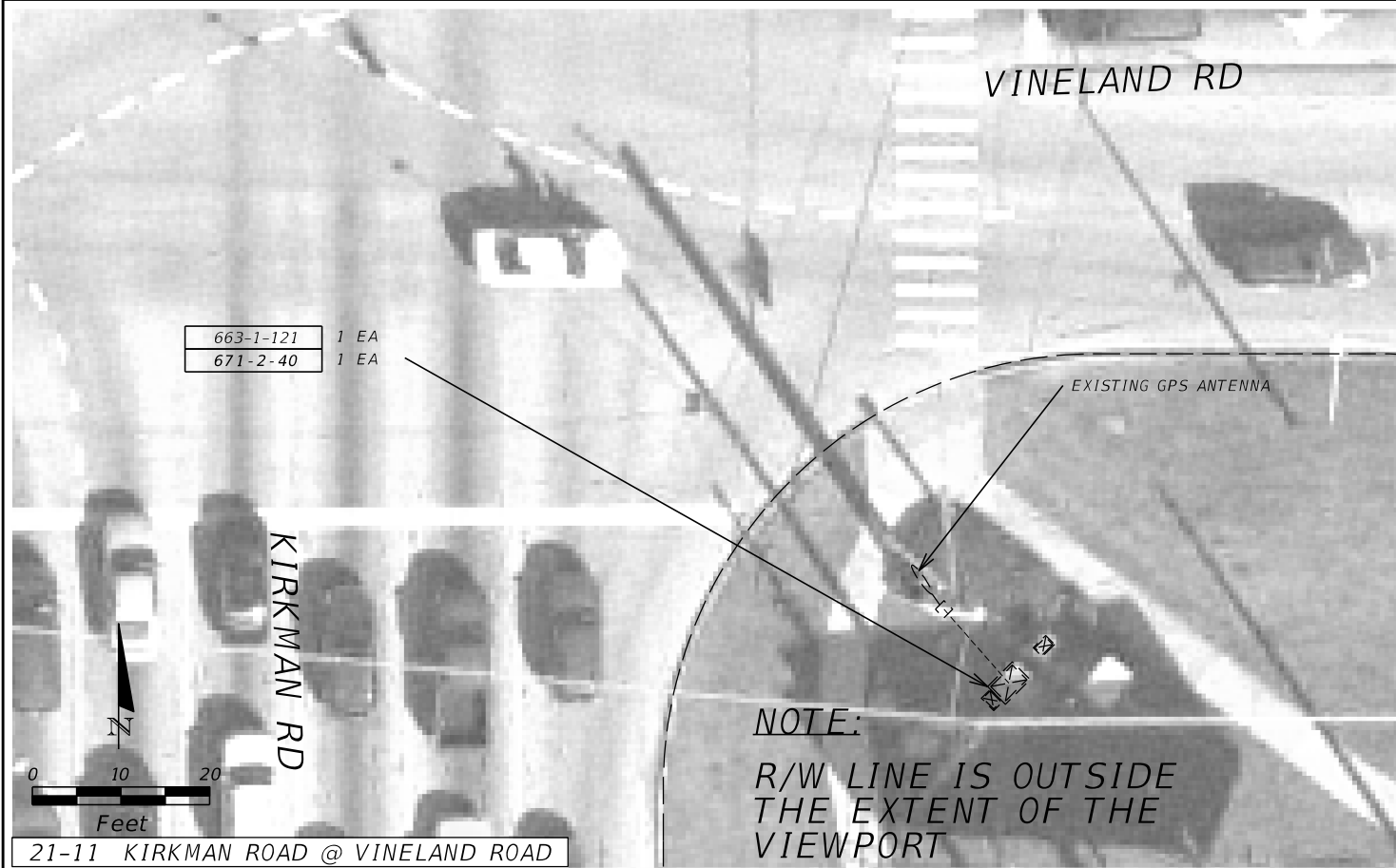
KITTELSON & ASSOCIATES, INC.
 TSZ SHING TSOI, P.E. # 75055
 110 E BROWARD BLVD, SUITE 2410
 FORT LAUDERDALE, FLORIDA 33301
 TEL: (954) 828-1730
 FAX: (954) 828-1787
 CERTIFICATION OF AUTHORIZATION 7524

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
VARIES	ORANGE SEMINOLE	435446-1-52-01

PLAN SHEET

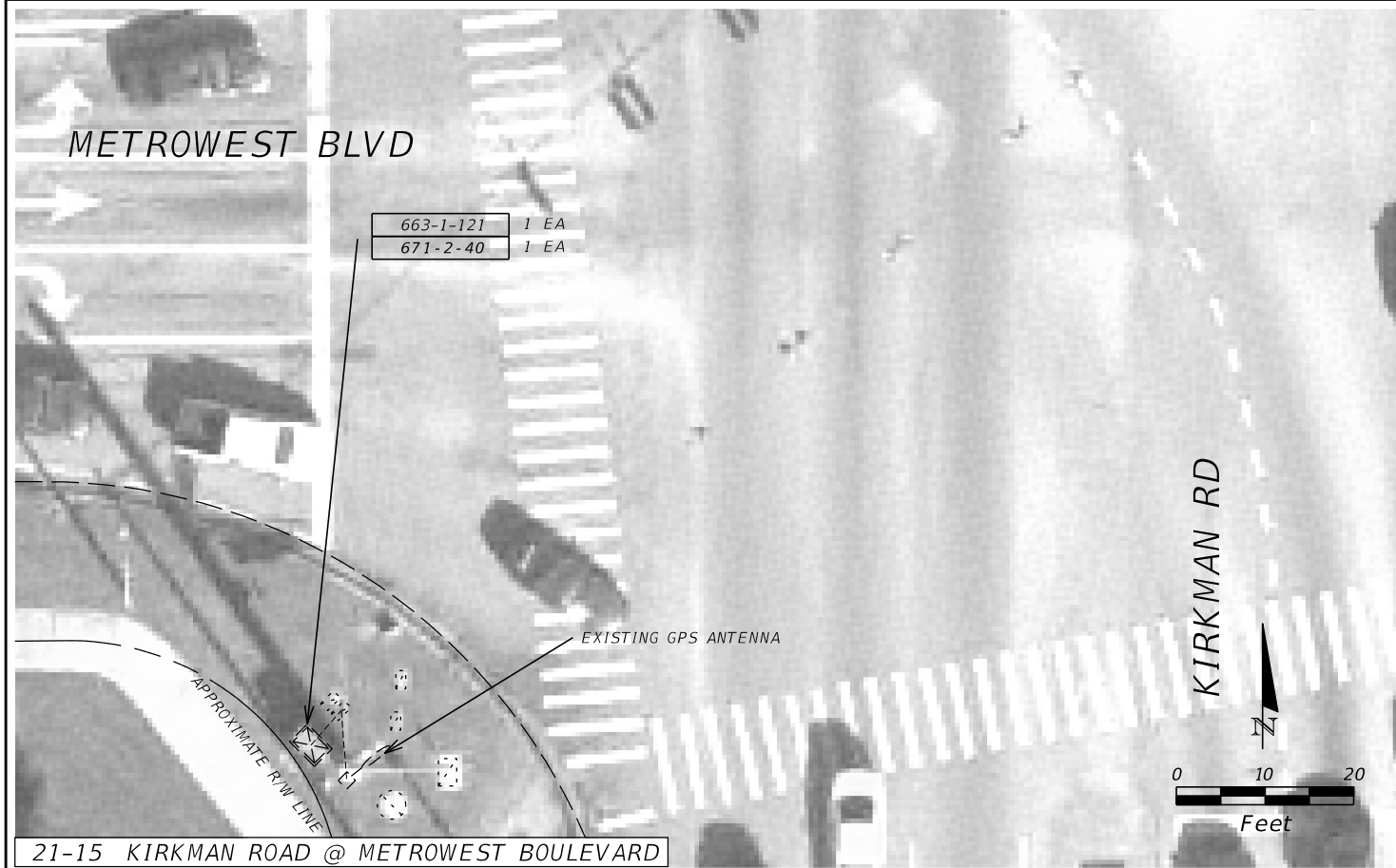
SHEET NO.
IT-24

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

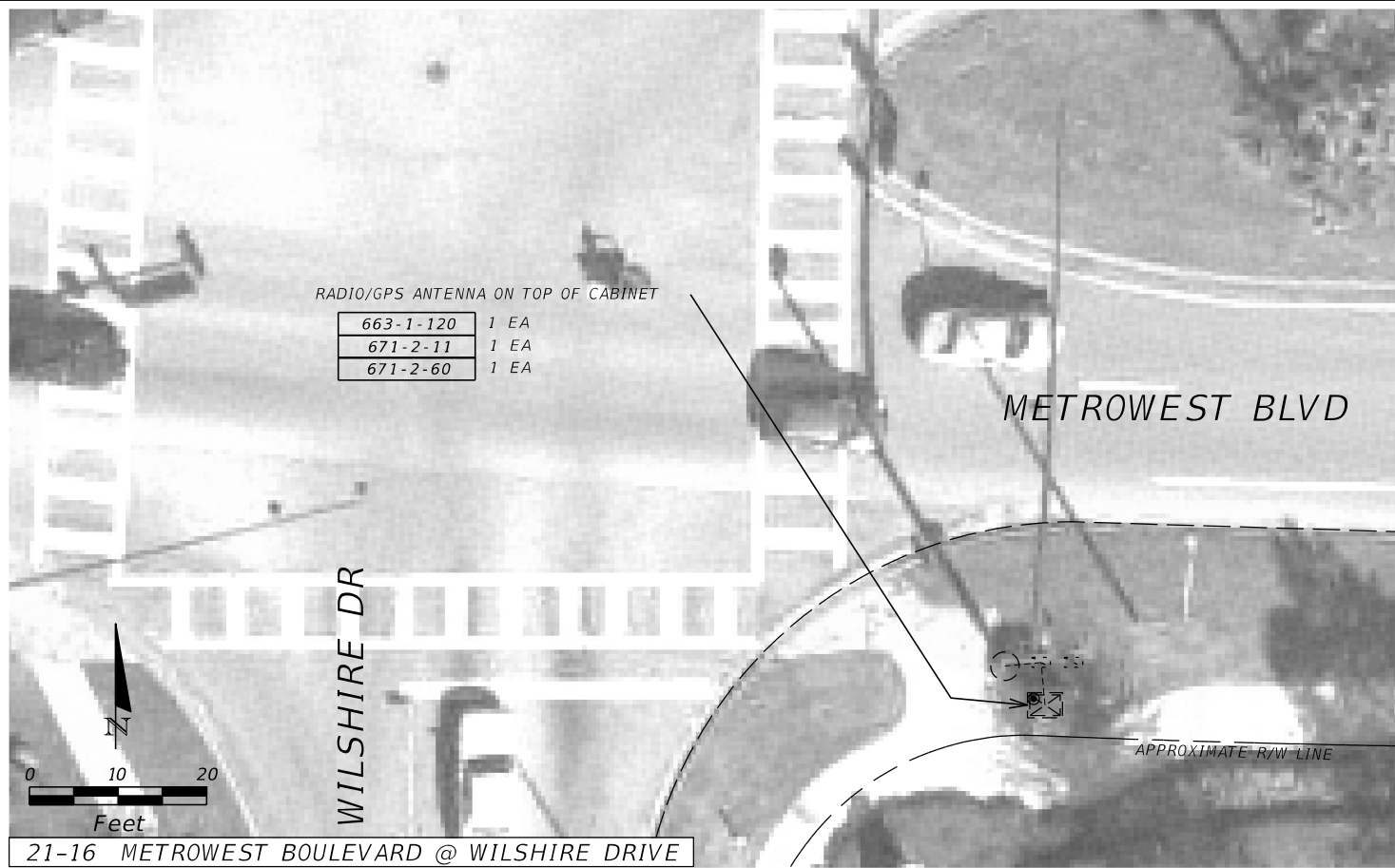


REVISIONS				KITTELSON & ASSOCIATES, INC. TSZ SHING TSOI, P.E. # 75055 110 E BROWARD BLVD, SUITE 2410 FORT LAUDERDALE, FLORIDA 33301 TEL: (954) 828-1730 FAX: (954) 828-1787 CERTIFICATION OF AUTHORIZATION 7524			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. IT-25
DATE	DESCRIPTION	DATE	DESCRIPTION				ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				VARIES	ORANGE SEMINOLE	435446-1-52-01	PLAN SHEET			

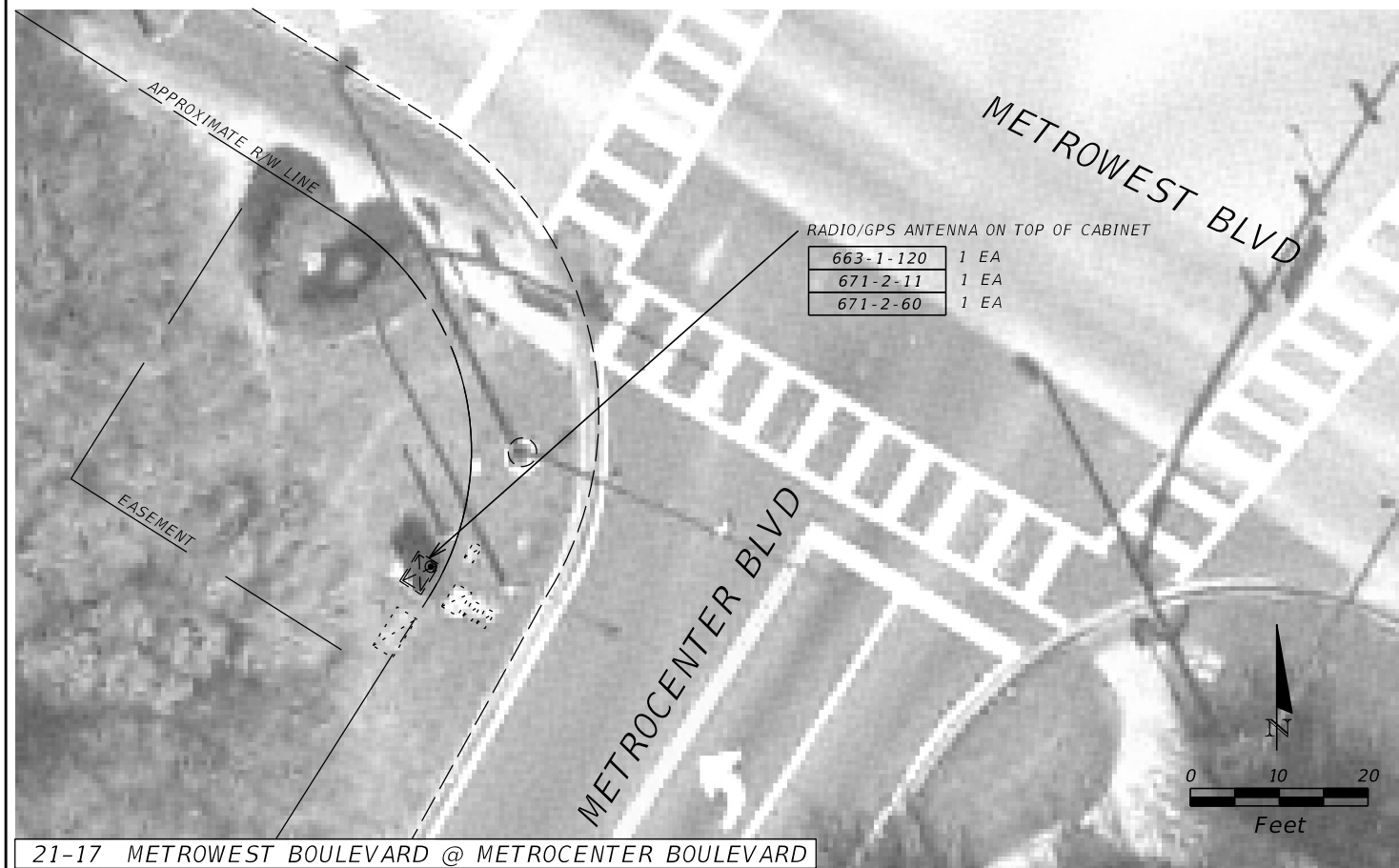
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



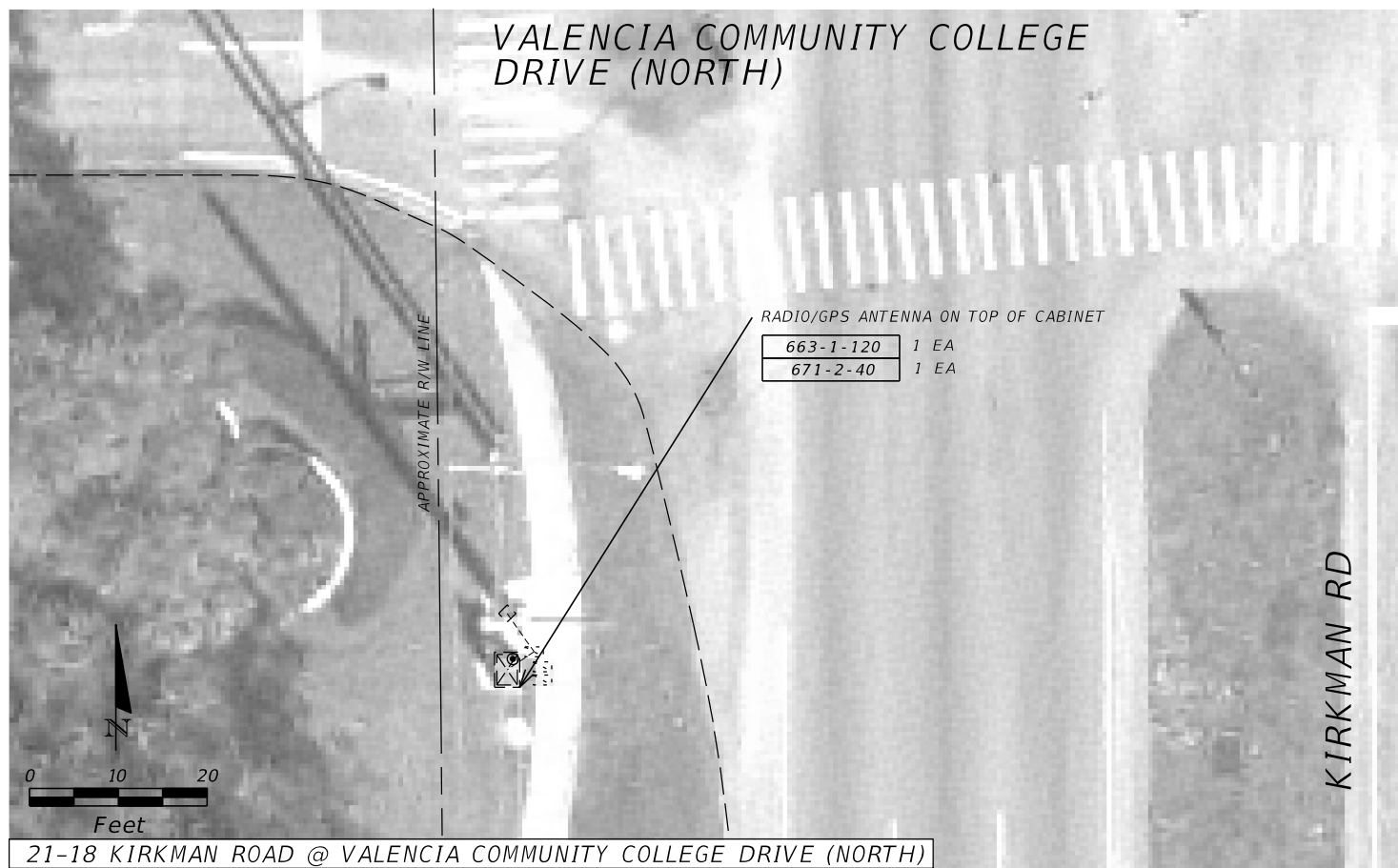
21-15 KIRKMAN ROAD @ METROWEST BOULEVARD



21-16 METROWEST BOULEVARD @ WILSHIRE DRIVE



21-17 METROWEST BOULEVARD @ METROCENTER BOULEVARD



21-18 KIRKMAN ROAD @ VALENCIA COMMUNITY COLLEGE DRIVE (NORTH)

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

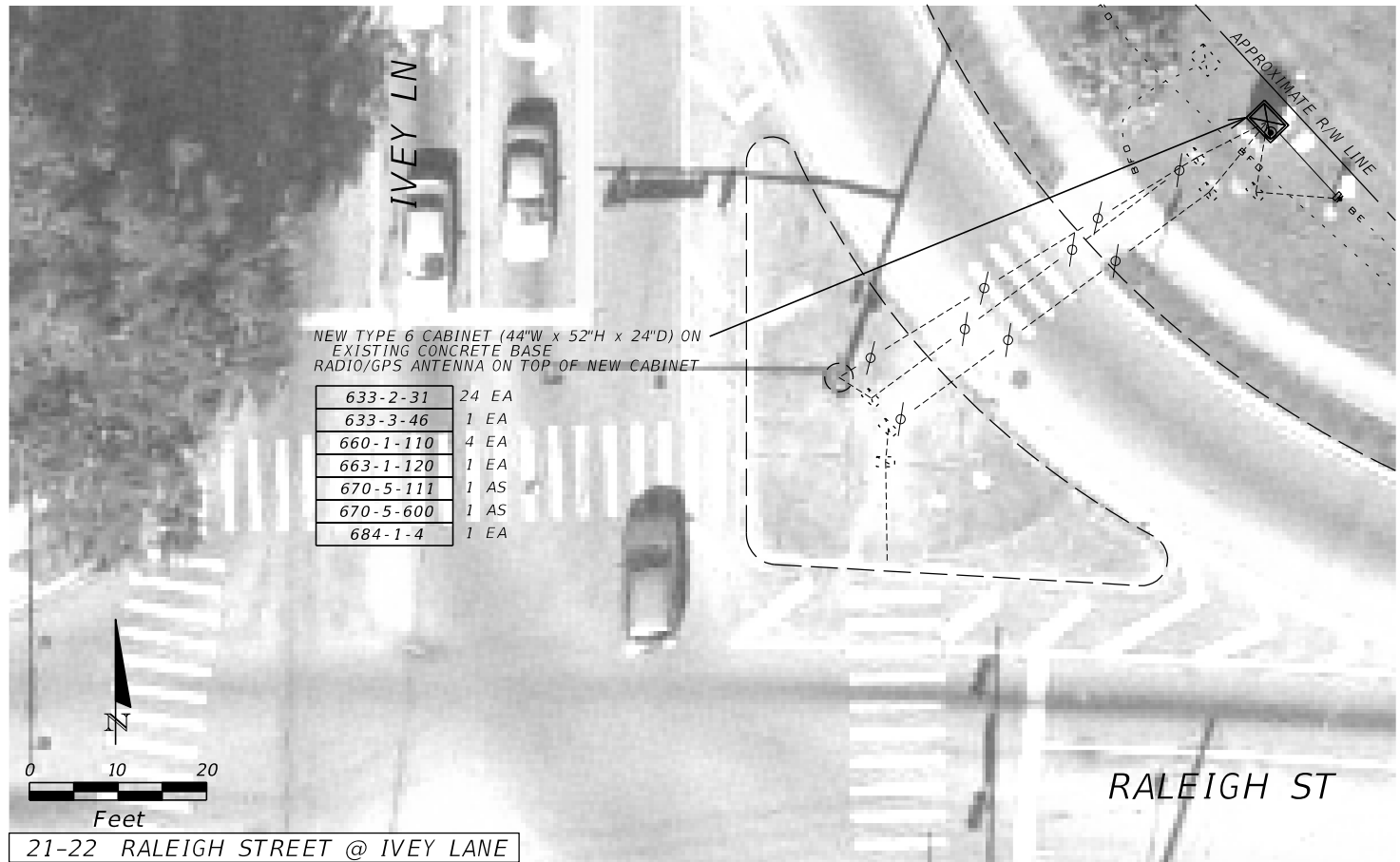
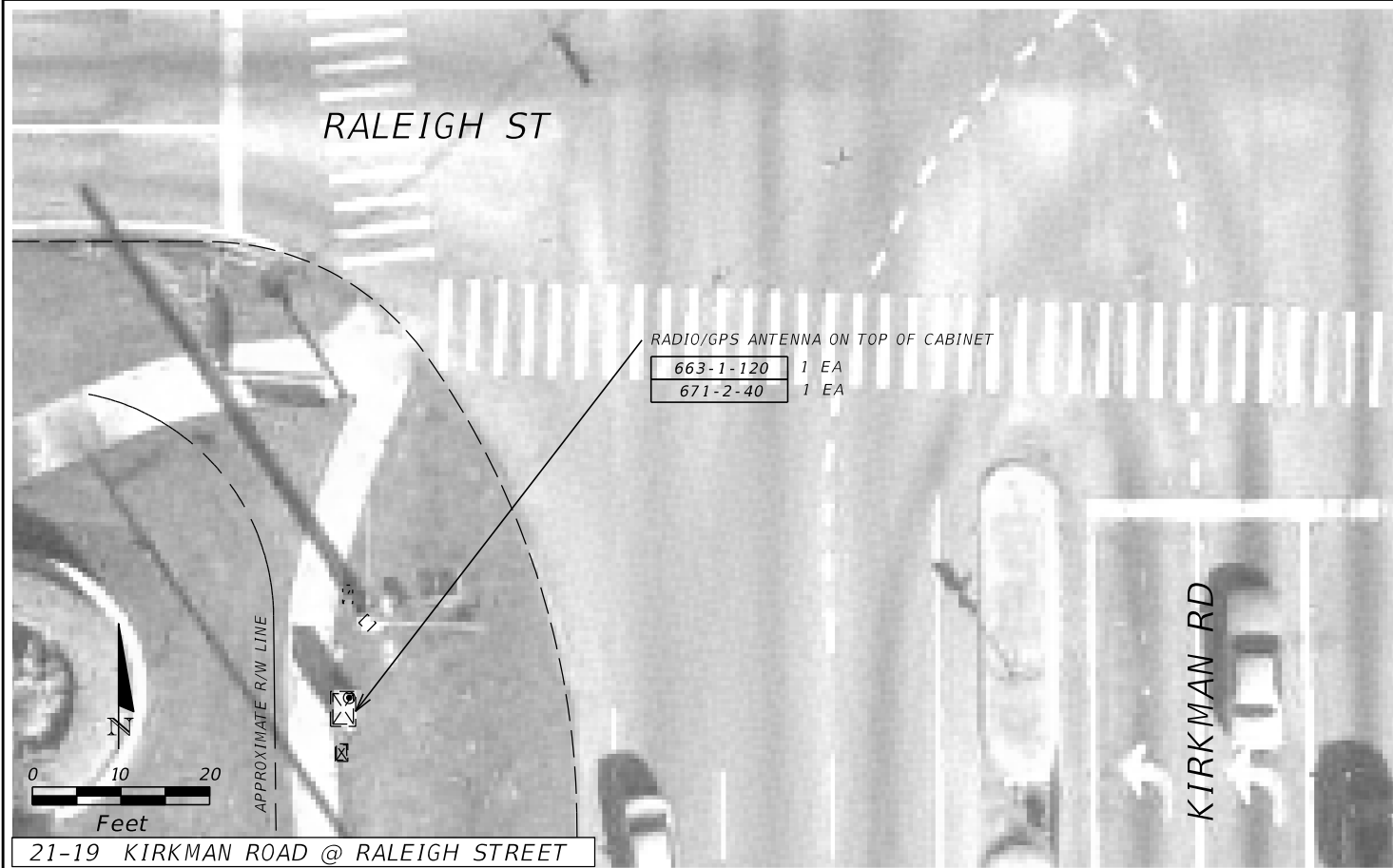
KITTELSON & ASSOCIATES, INC.
 TSZ SHING TSOI, P.E. # 75055
 110 E BROWARD BLVD, SUITE 2410
 FORT LAUDERDALE, FLORIDA 33301
 TEL: (954) 828-1730
 FAX: (954) 828-1787
 CERTIFICATION OF AUTHORIZATION 7524

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
VARIES	ORANGE SEMINOLE	435446-1-52-01

PLAN SHEET

SHEET NO.
IT-26

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

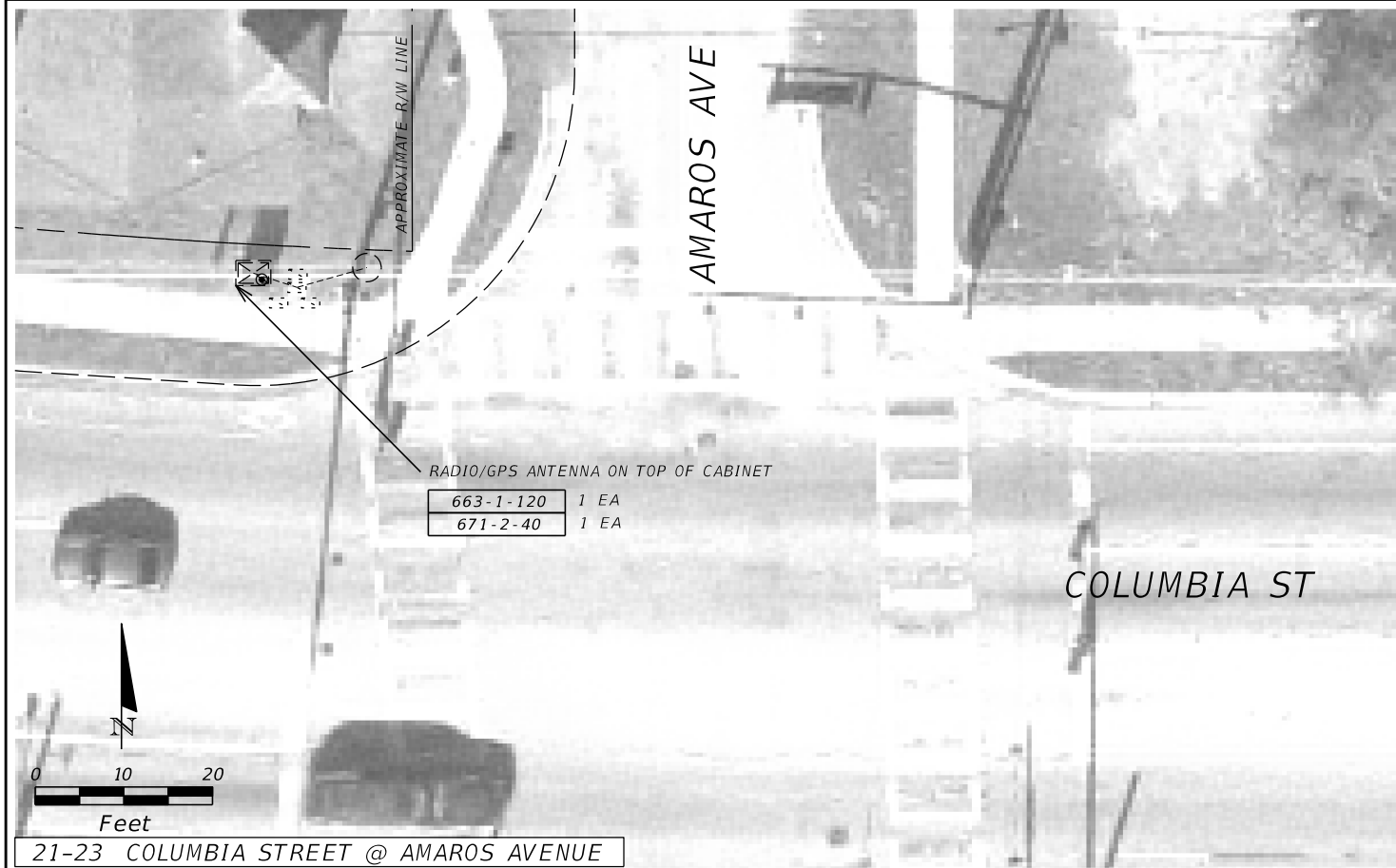
KITTELSON & ASSOCIATES, INC.
 TSZ SHING TSOI, P.E. # 75055
 110 E BROWARD BLVD, SUITE 2410
 FORT LAUDERDALE, FLORIDA 33301
 TEL: (954) 828-1730
 FAX: (954) 828-1787
 CERTIFICATION OF AUTHORIZATION 7524

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
VARIES	ORANGE SEMINOLE	435446-1-52-01

PLAN SHEET

SHEET NO.
IT-27

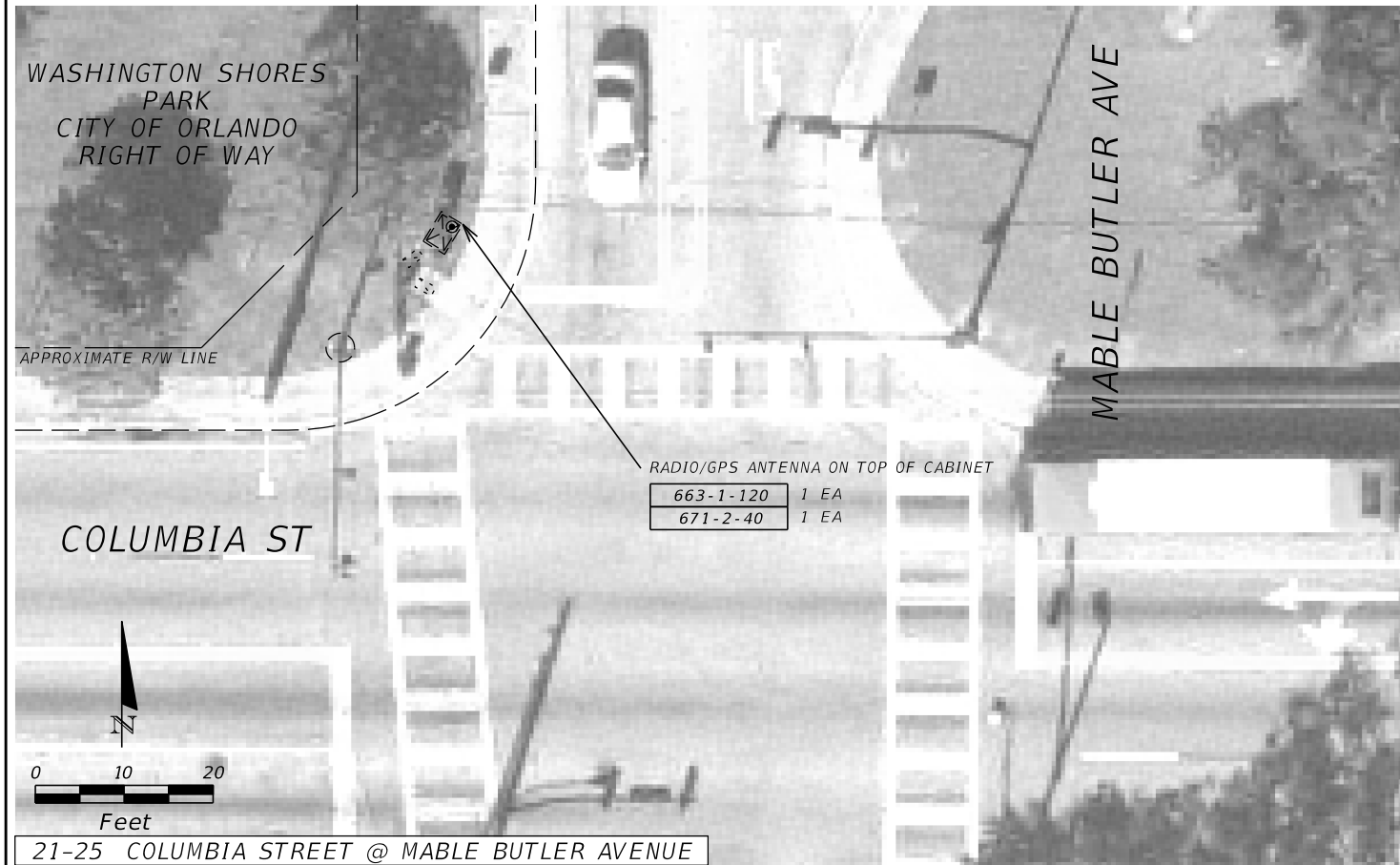
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



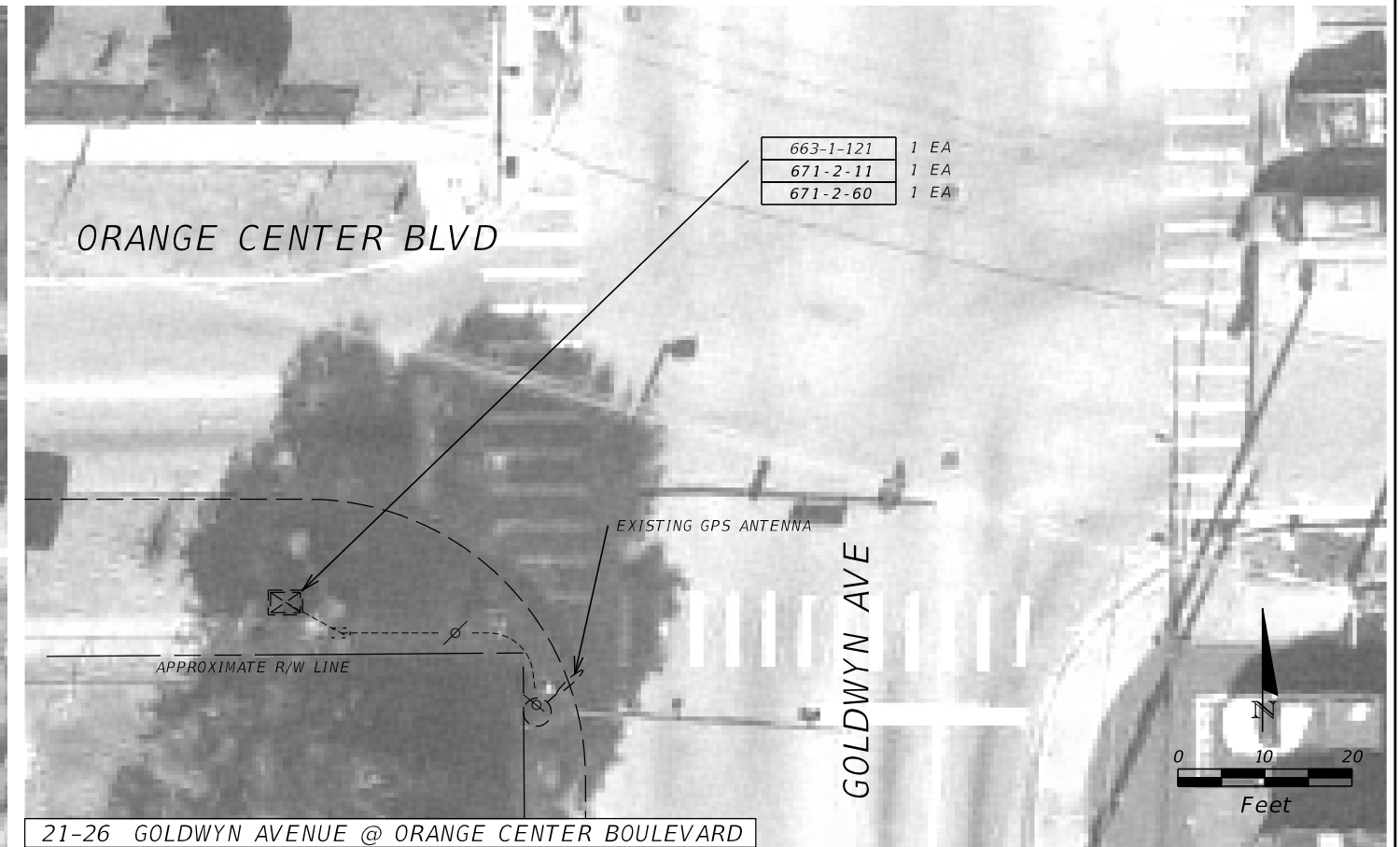
21-23 COLUMBIA STREET @ AMAROS AVENUE



21-24 COLUMBIA STREET @ BRUTON BOULEVARD



21-25 COLUMBIA STREET @ MABLE BUTLER AVENUE



21-26 GOLDWYN AVENUE @ ORANGE CENTER BOULEVARD

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

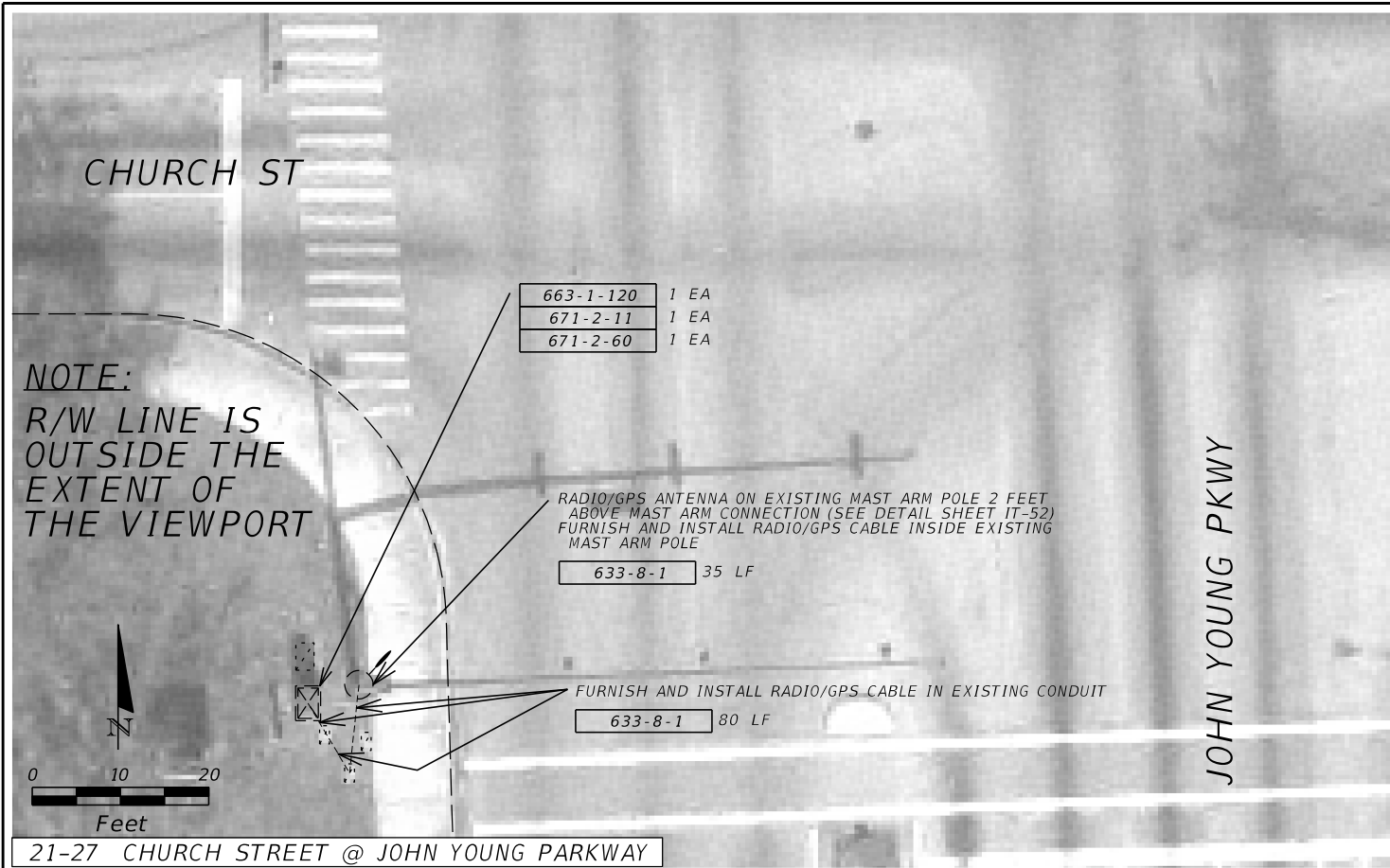
KITTELSON & ASSOCIATES, INC.
TSZ SHING TSOI, P.E. # 75055
110 E BROWARD BLVD, SUITE 2410
FORT LAUDERDALE, FLORIDA 33301
TEL: (954) 828-1730
FAX: (954) 828-1787
CERTIFICATION OF AUTHORIZATION 7524

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
VARIES	ORANGE SEMINOLE	435446-1-52-01

PLAN SHEET

SHEET NO.
IT-28

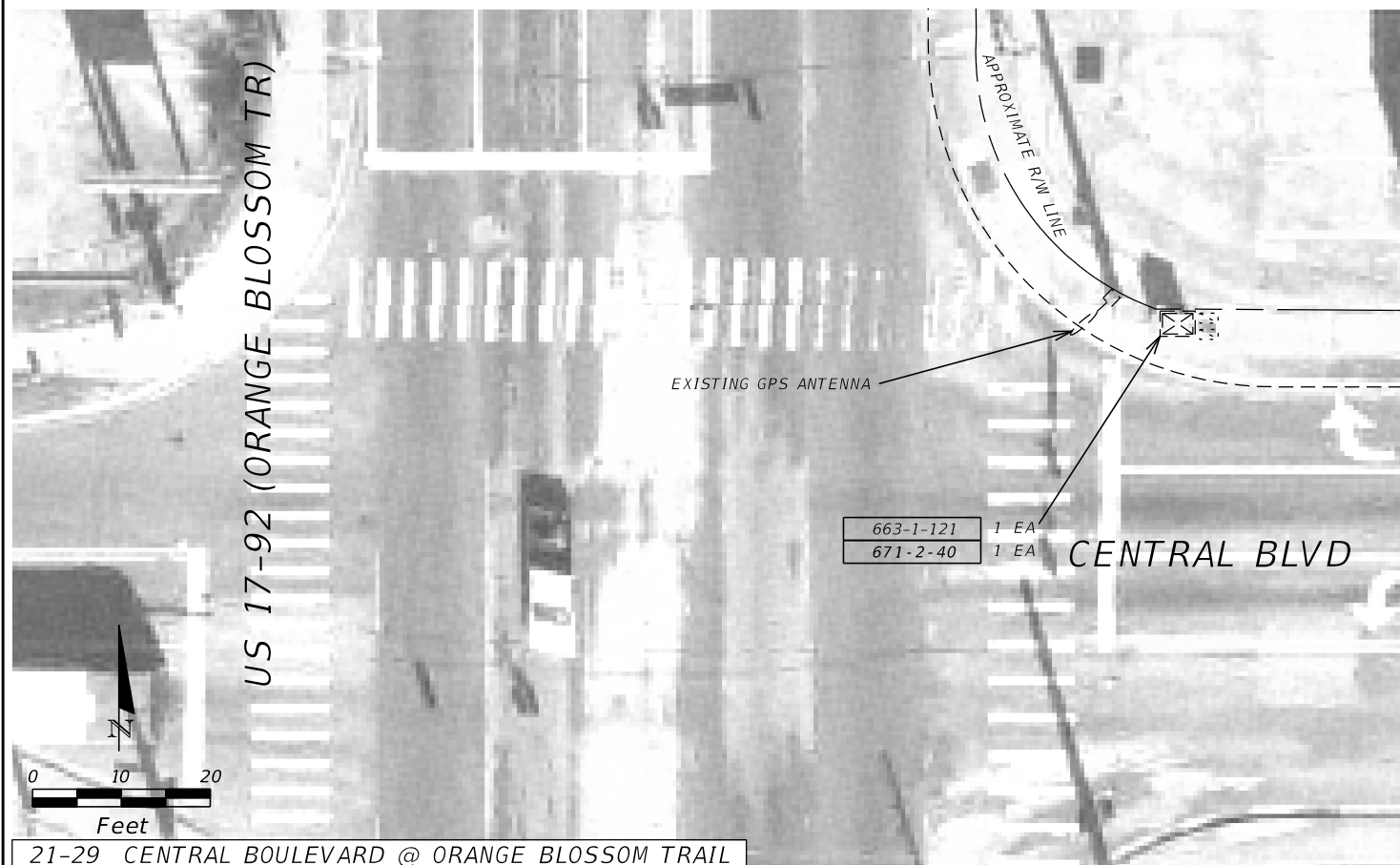
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



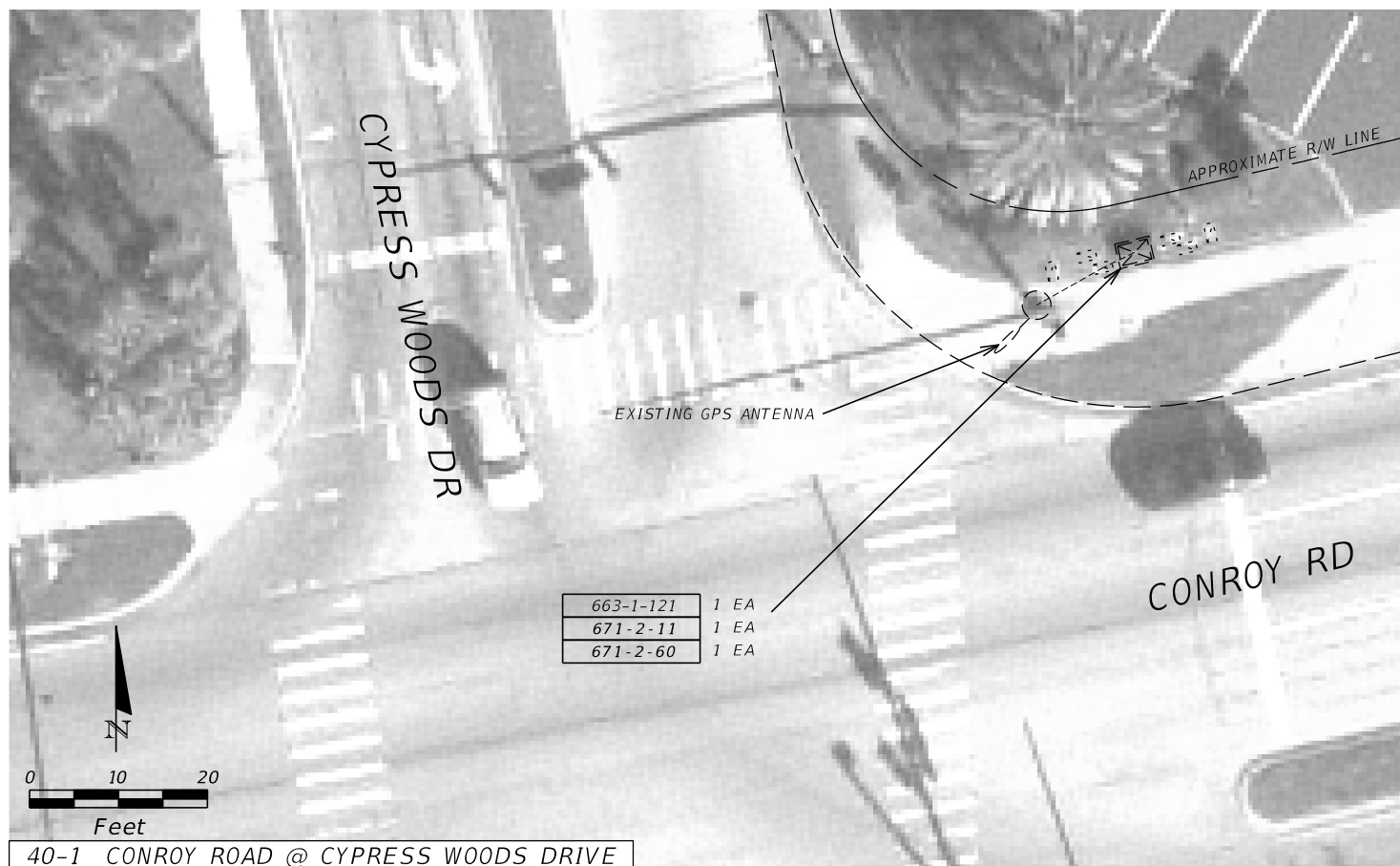
21-27 CHURCH STREET @ JOHN YOUNG PARKWAY



21-28 CENTRAL BOULEVARD @ TAMPA AVENUE



21-29 CENTRAL BOULEVARD @ ORANGE BLOSSOM TRAIL



40-1 CONROY ROAD @ CYPRESS WOODS DRIVE

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

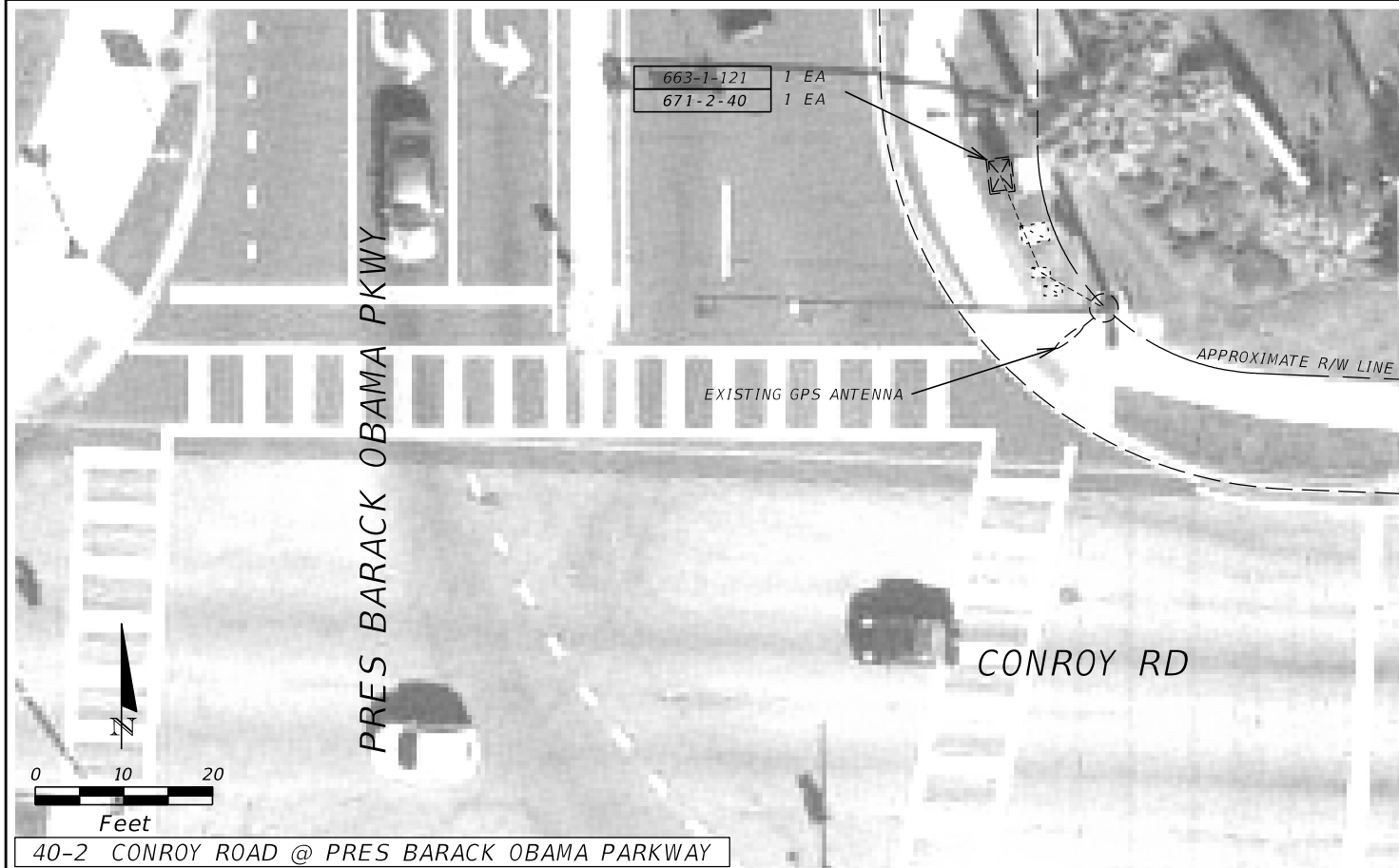
KITTELSON & ASSOCIATES, INC.
 TSZ SHING TSOI, P.E. # 75055
 110 E BROWARD BLVD, SUITE 2410
 FORT LAUDERDALE, FLORIDA 33301
 TEL: (954) 828-1730
 FAX: (954) 828-1787
 CERTIFICATION OF AUTHORIZATION 7524

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
VARIES	ORANGE SEMINOLE	435446-1-52-01

PLAN SHEET

SHEET NO.
IT-29

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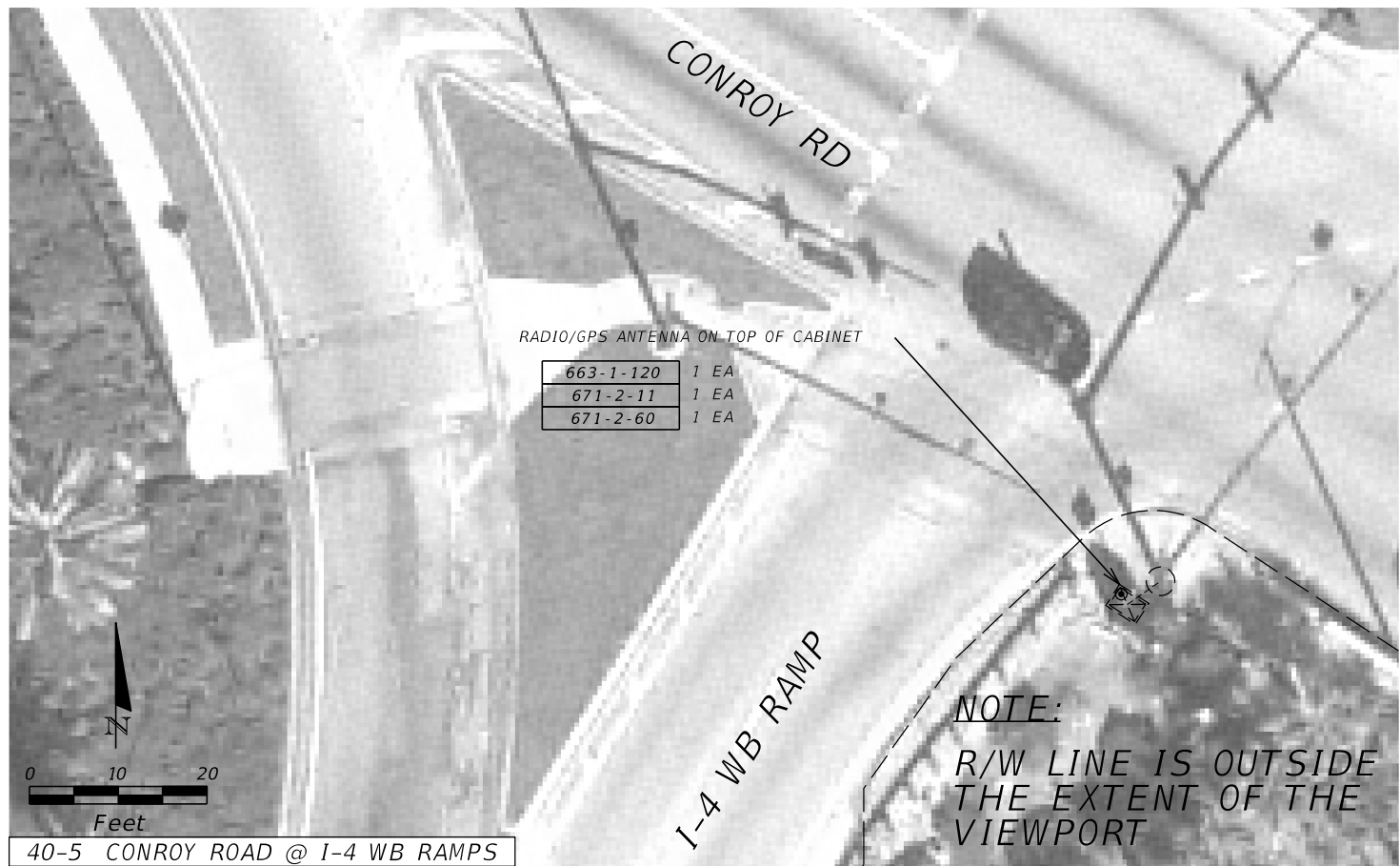
40-2 CONROY ROAD @ PRES BARACK OBAMA PARKWAY



40-3 CONROY ROAD @ VINELAND ROAD



40-4 VINELAND ROAD @ WALDEN CIRCLE



40-5 CONROY ROAD @ I-4 WB RAMPS

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

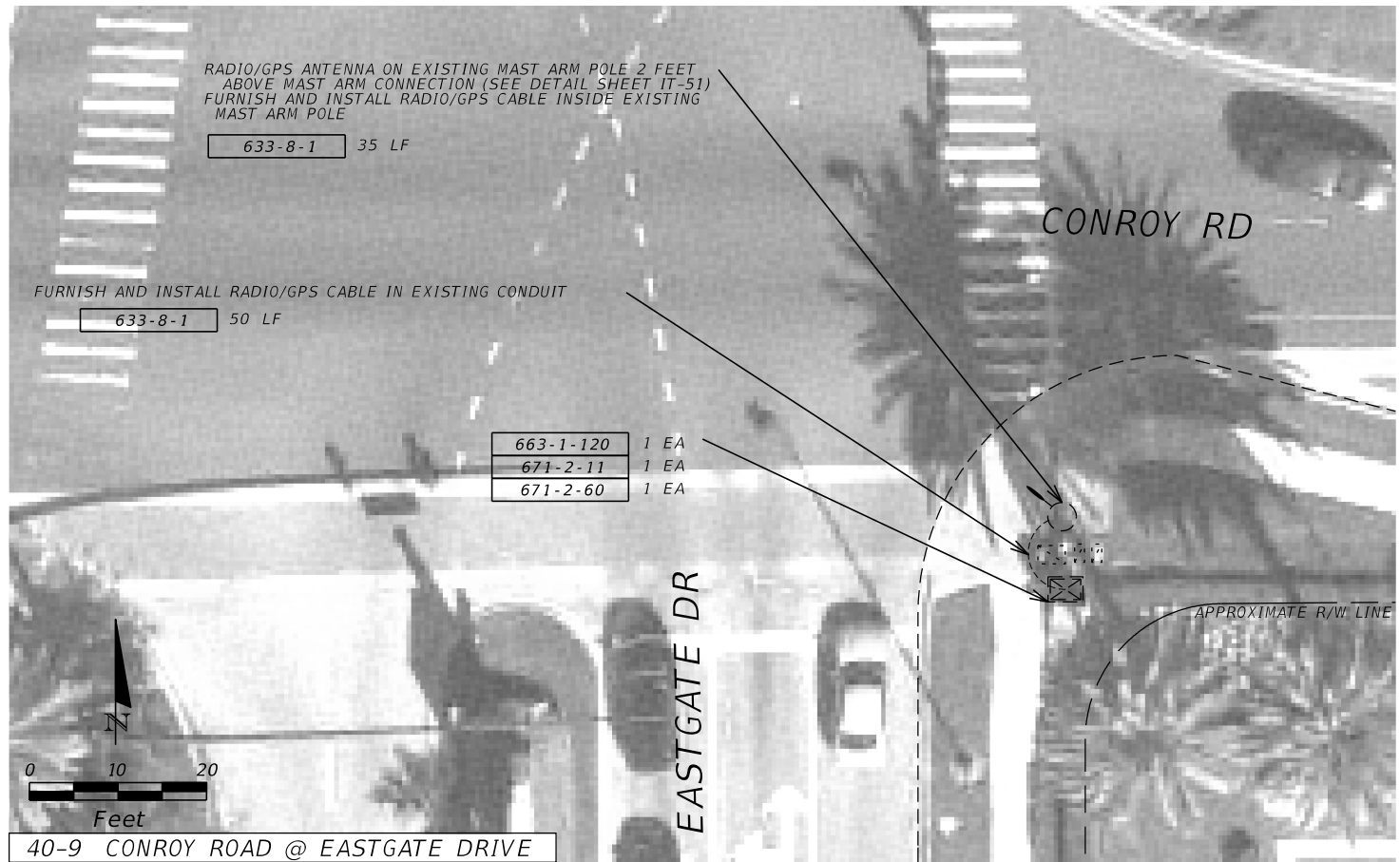
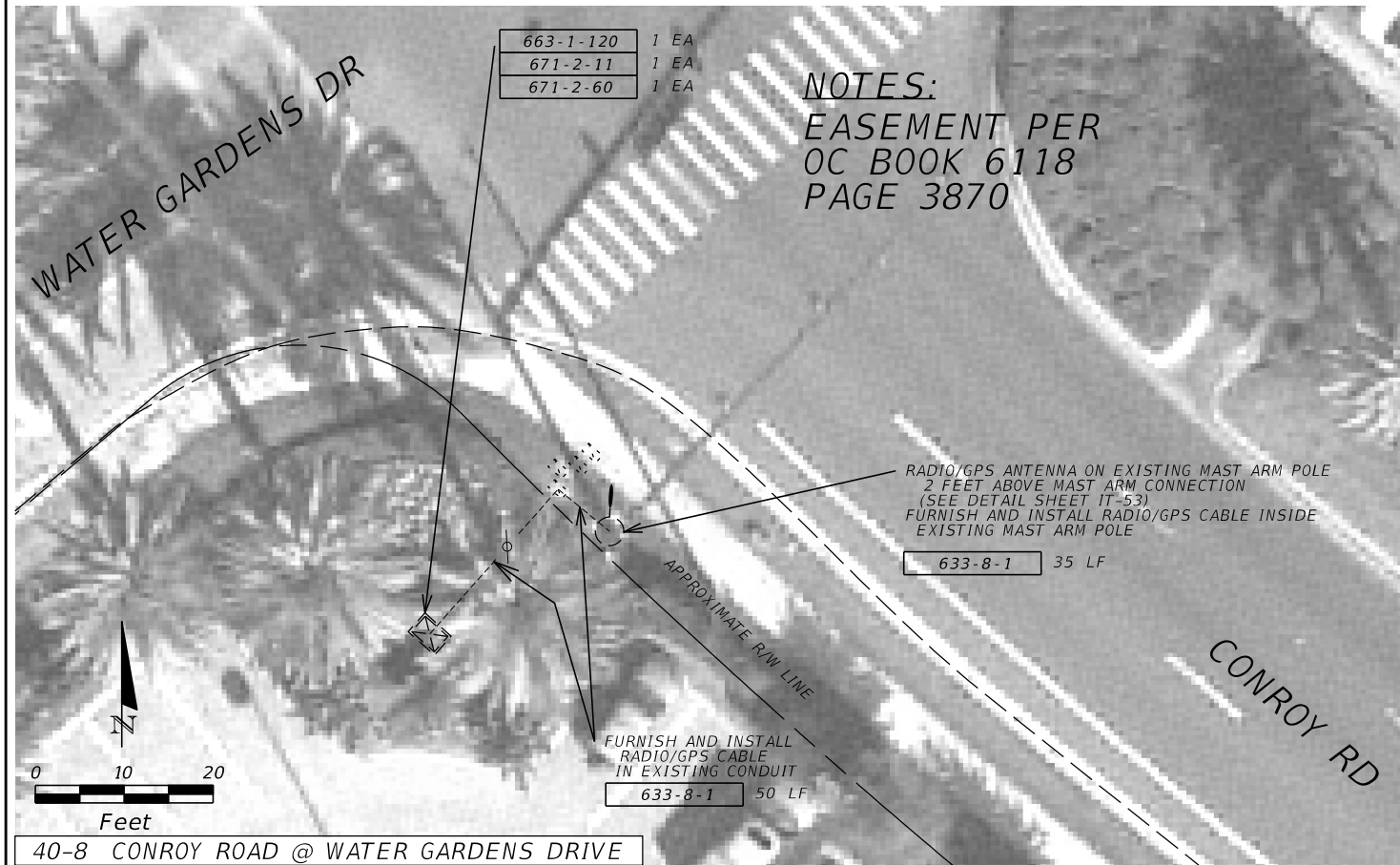
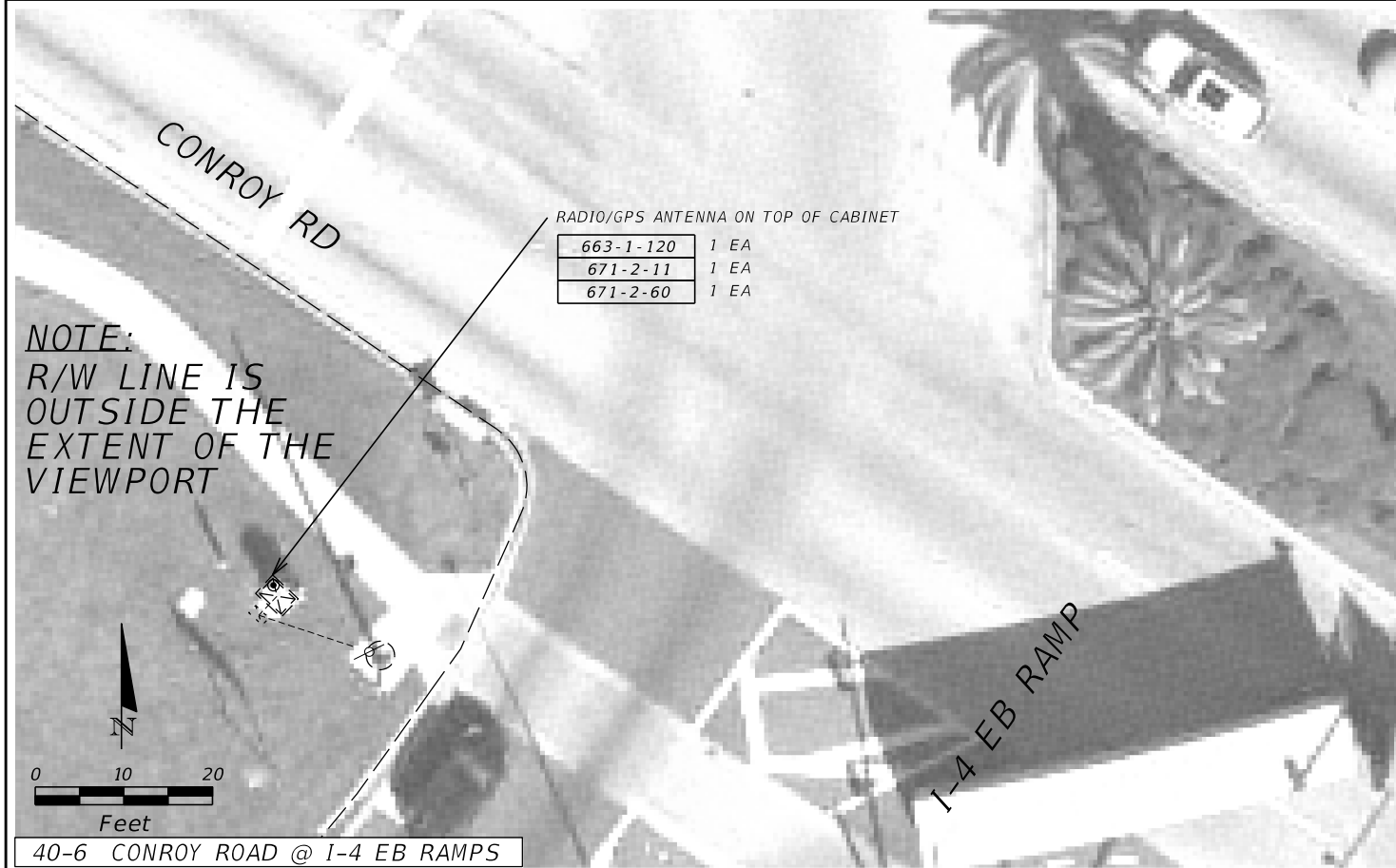
KITTELSON & ASSOCIATES, INC.
 TSZ SHING TSOI, P.E. # 75055
 110 E BROWARD BLVD, SUITE 2410
 FORT LAUDERDALE, FLORIDA 33301
 TEL: (954) 828-1730
 FAX: (954) 828-1787
 CERTIFICATION OF AUTHORIZATION 7524

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
VARIES	ORANGE SEMINOLE	435446-1-52-01

PLAN SHEET

SHEET NO.
IT-30

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

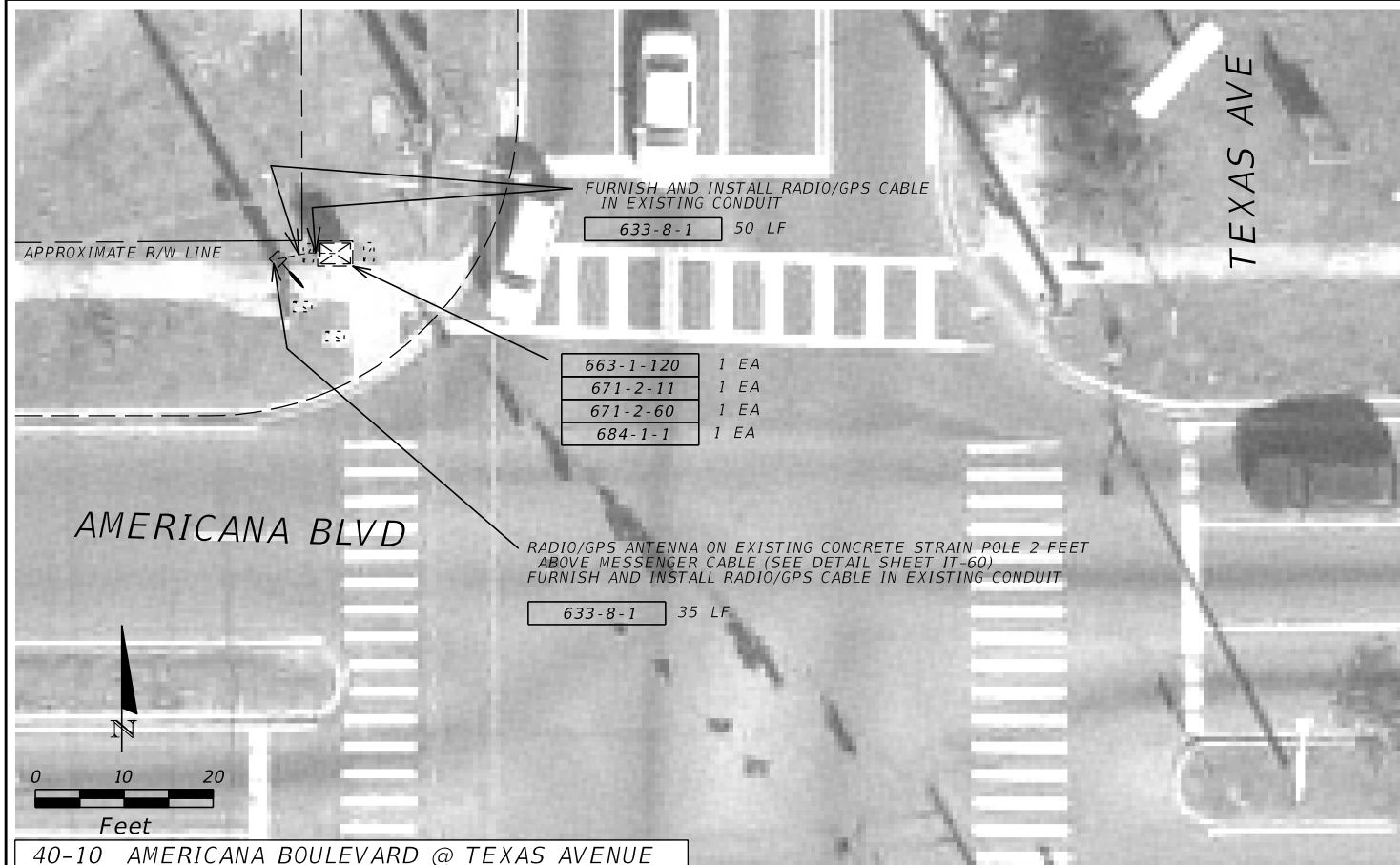
KITTELSON & ASSOCIATES, INC.
 TSZ SHING TSOI, P.E. # 75055
 110 E BROWARD BLVD, SUITE 2410
 FORT LAUDERDALE, FLORIDA 33301
 TEL: (954) 828-1730
 FAX: (954) 828-1787
 CERTIFICATION OF AUTHORIZATION 7524

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
VARIES	ORANGE SEMINOLE	435446-1-52-01

PLAN SHEET

SHEET NO.
IT-31

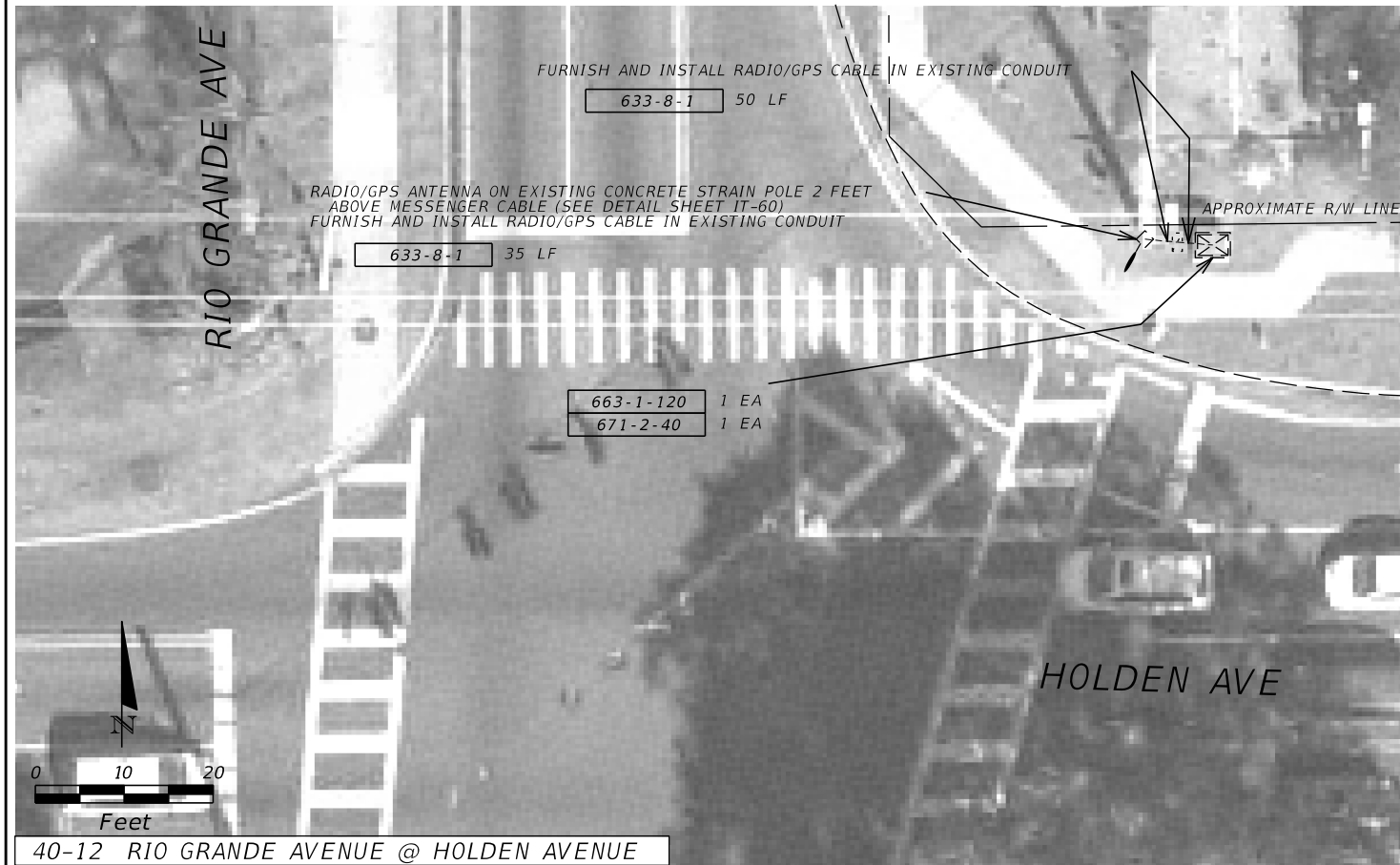
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



40-10 AMERICANA BOULEVARD @ TEXAS AVENUE



40-11 AMERICANA BOULEVARD @ SAN ANTONIO AVENUE



40-12 RIO GRANDE AVENUE @ HOLDEN AVENUE



40-13 RIO GRANDE AVENUE @ TEXAS AVENUE

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

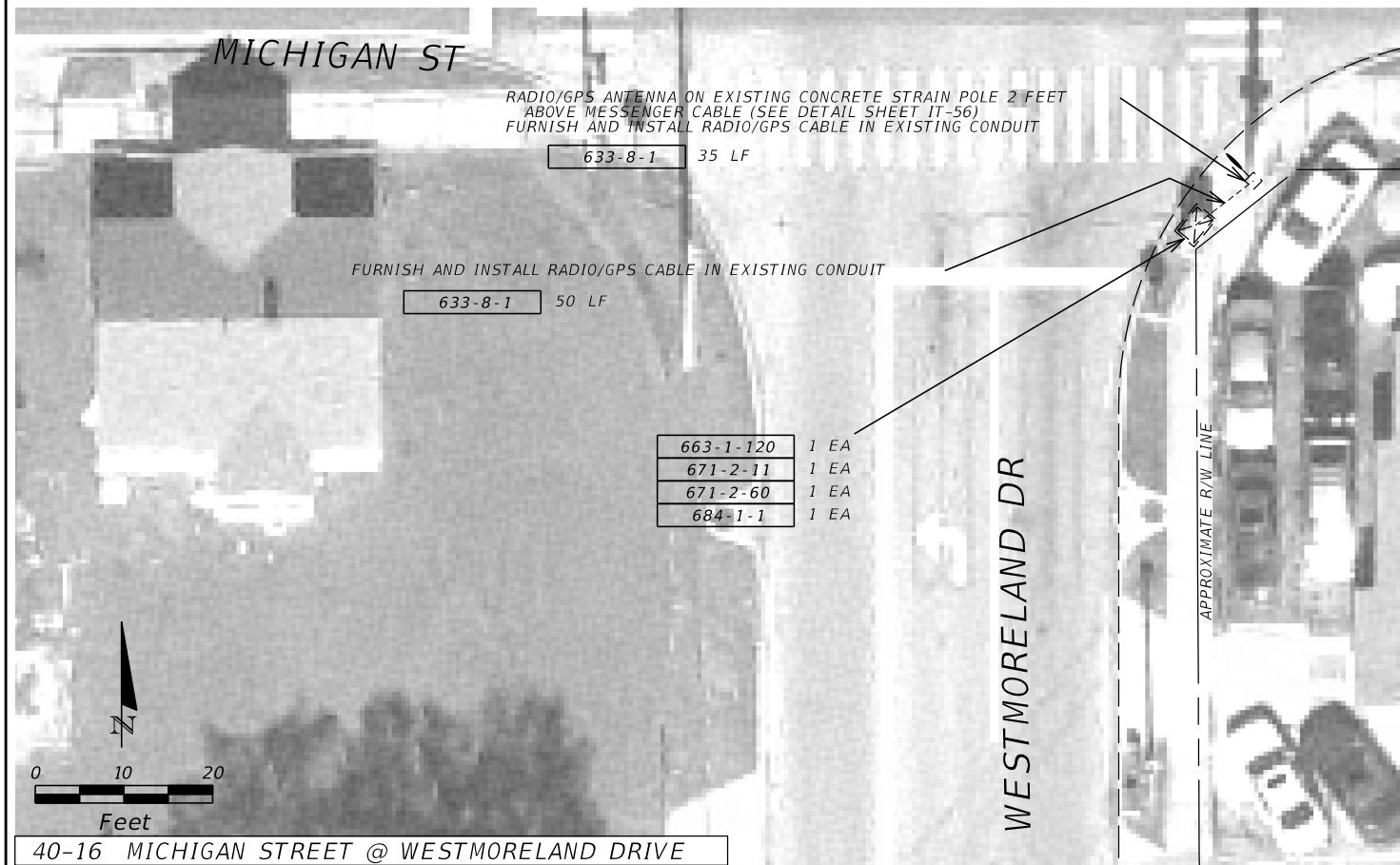
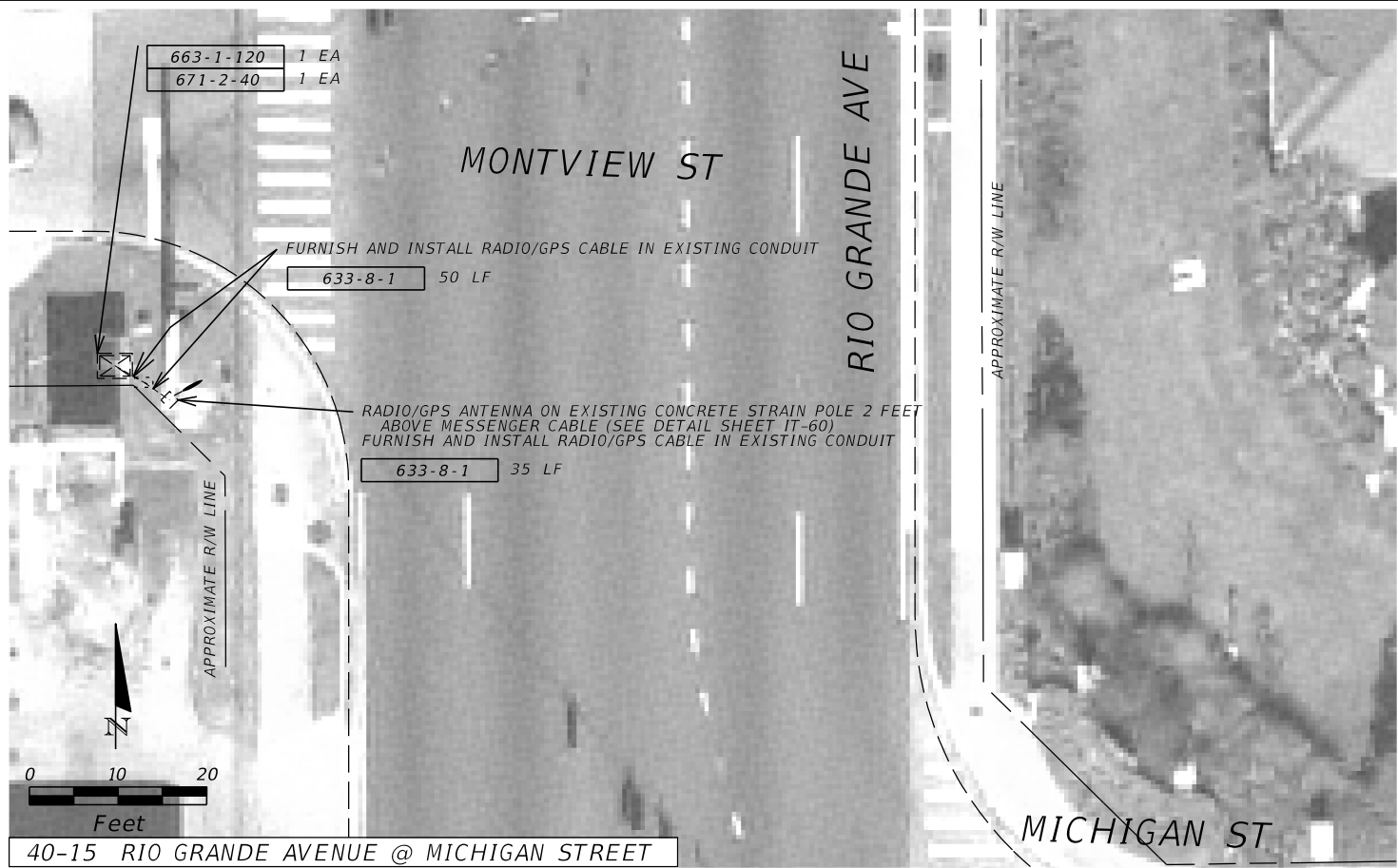
KITTELSON & ASSOCIATES, INC.
 TSZ SHING TSOI, P.E. # 75055
 110 E BROWARD BLVD, SUITE 2410
 FORT LAUDERDALE, FLORIDA 33301
 TEL: (954) 828-1730
 FAX: (954) 828-1787
 CERTIFICATION OF AUTHORIZATION 7524

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
VARIES	ORANGE SEMINOLE	435446-1-52-01

PLAN SHEET

SHEET NO.
IT-32

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

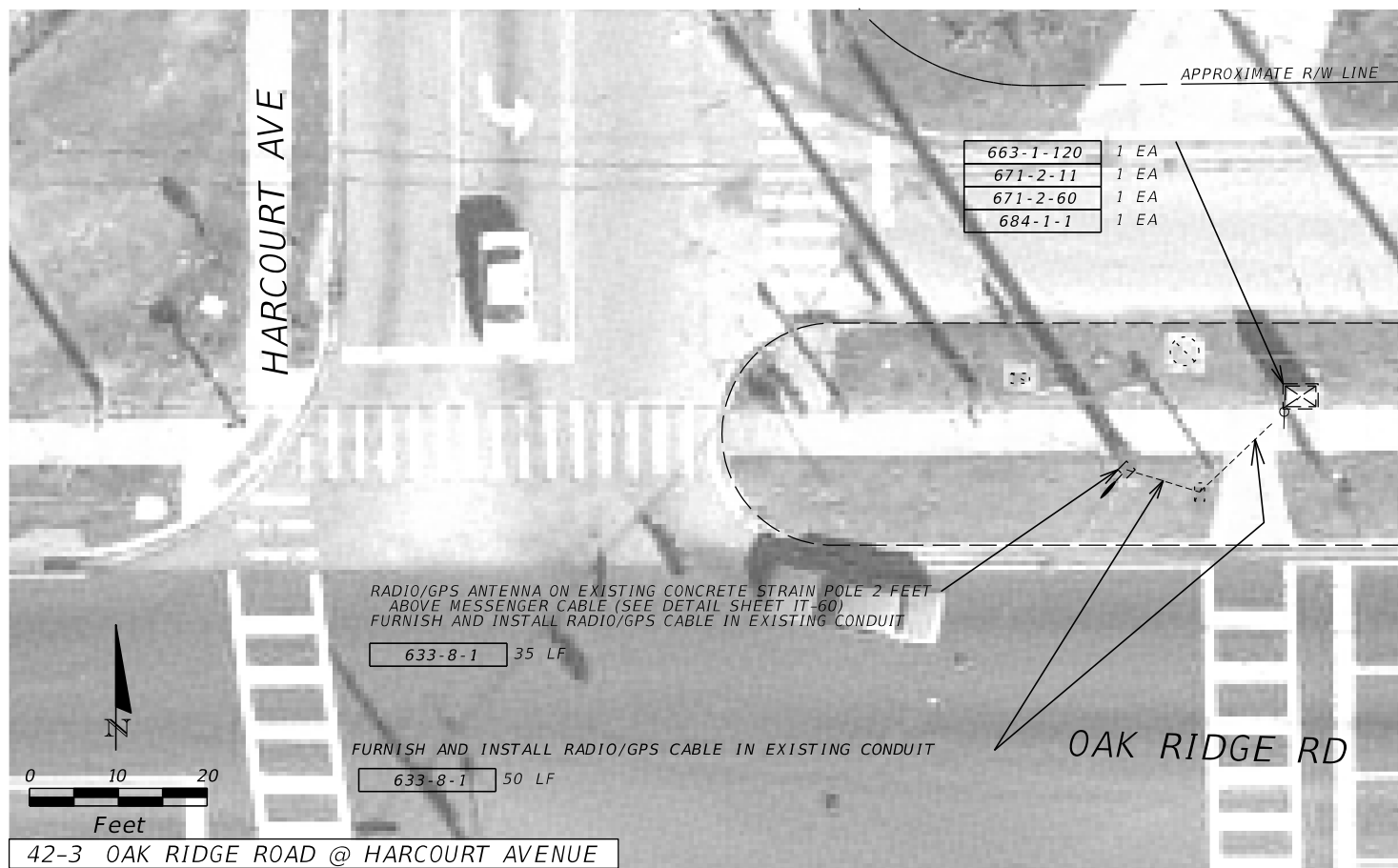
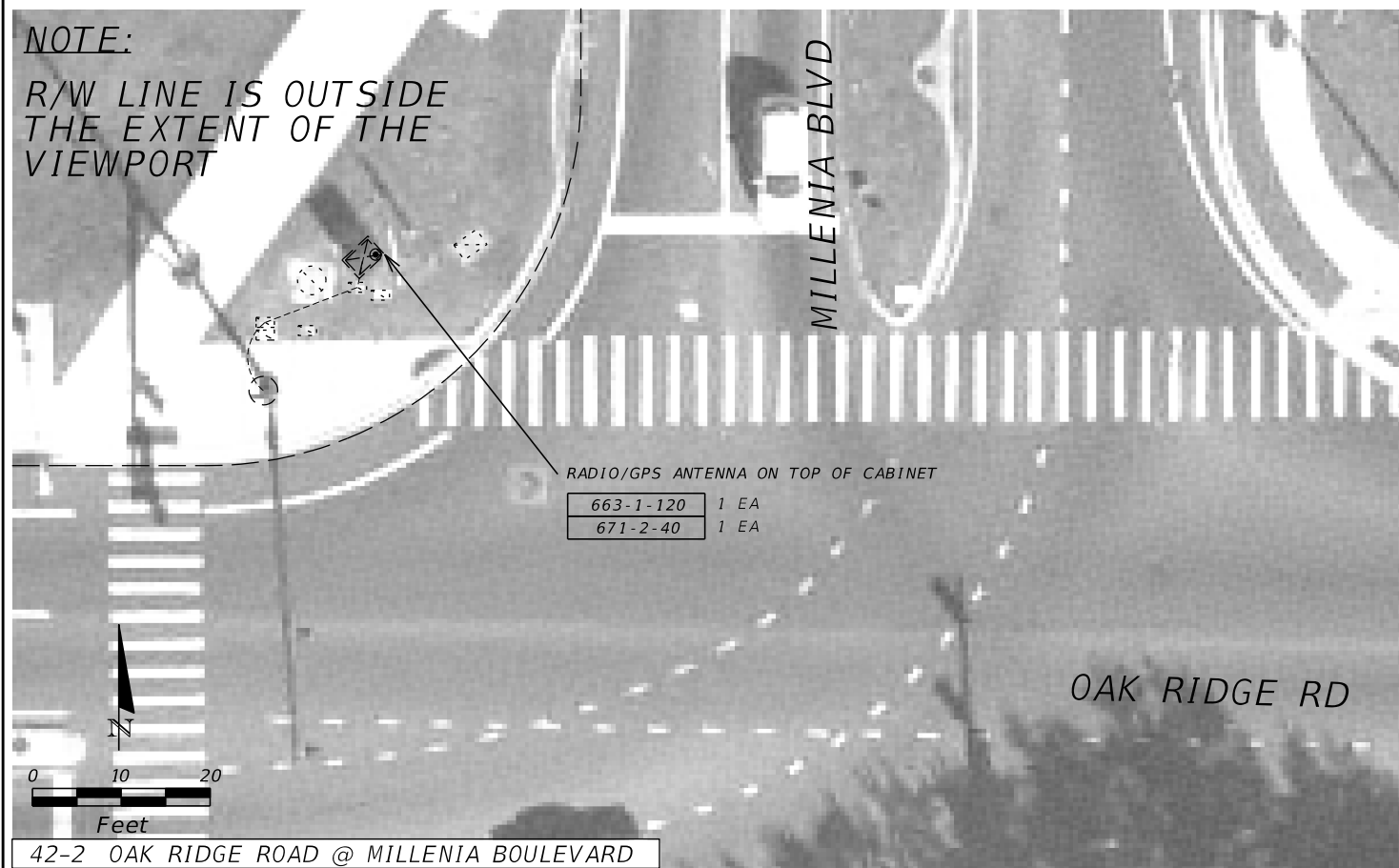
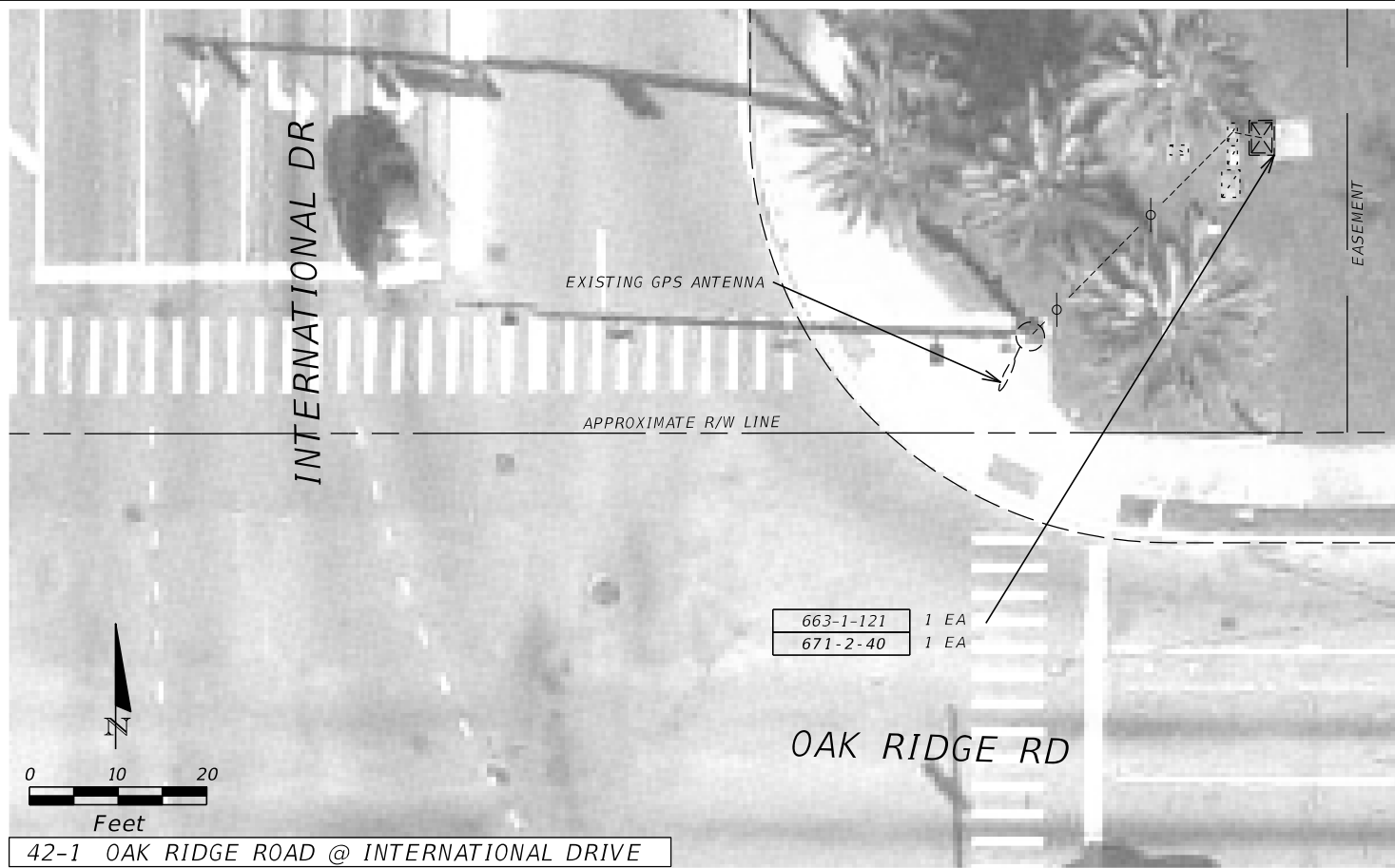
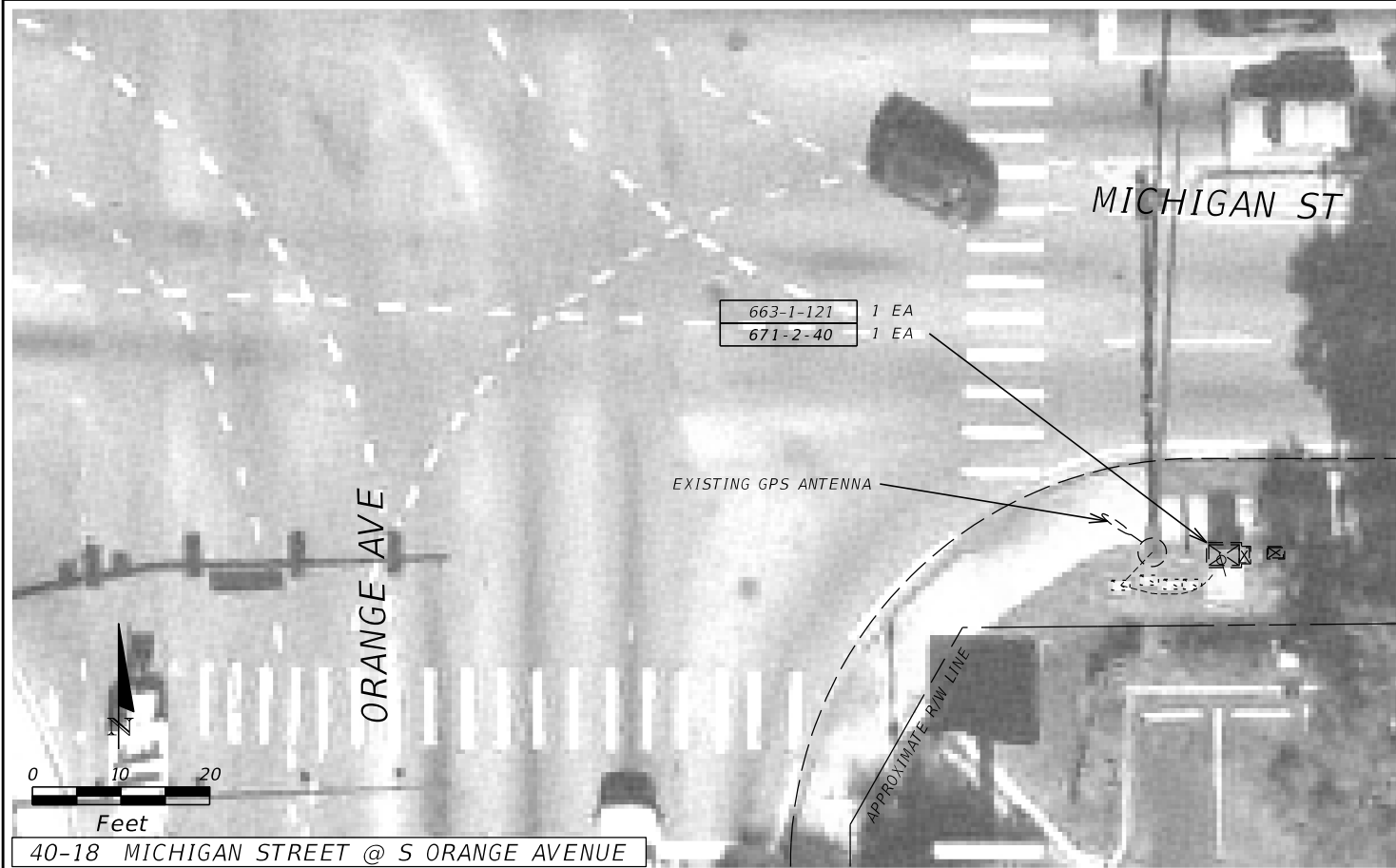
KITTELSON & ASSOCIATES, INC.
 TSZ SHING TSOI, P.E. # 75055
 110 E BROWARD BLVD, SUITE 2410
 FORT LAUDERDALE, FLORIDA 33301
 TEL: (954) 828-1730
 FAX: (954) 828-1787
 CERTIFICATION OF AUTHORIZATION 7524

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
VARIES	ORANGE SEMINOLE	435446-1-52-01

PLAN SHEET

SHEET NO.
IT-33

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

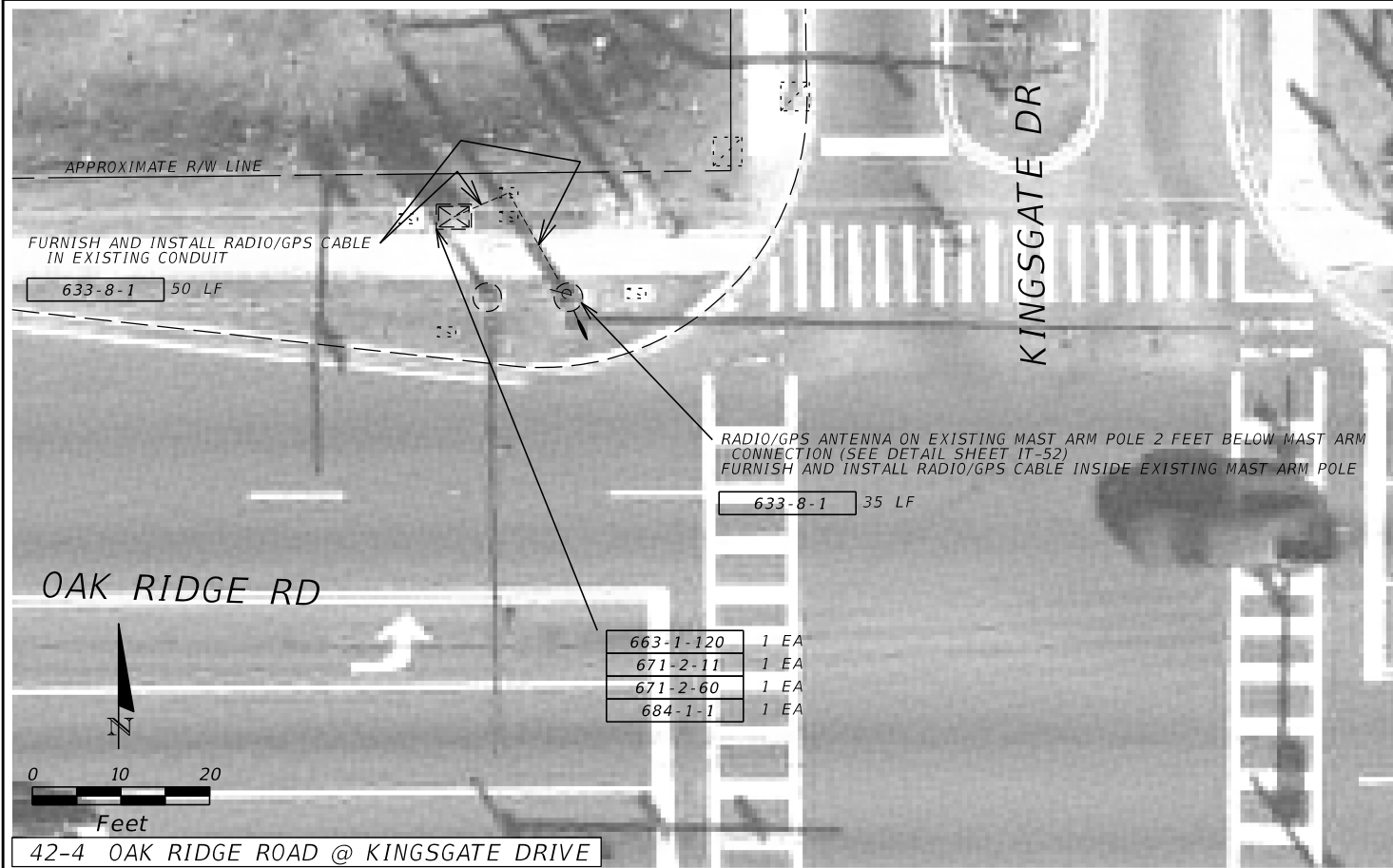
KITTELSON & ASSOCIATES, INC.
 TSZ SHING TSOI, P.E. # 75055
 110 E BROWARD BLVD, SUITE 2410
 FORT LAUDERDALE, FLORIDA 33301
 TEL: (954) 828-1730
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 CERTIFICATION OF AUTHORIZATION 7524

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
VARIES	ORANGE SEMINOLE	435446-1-52-01

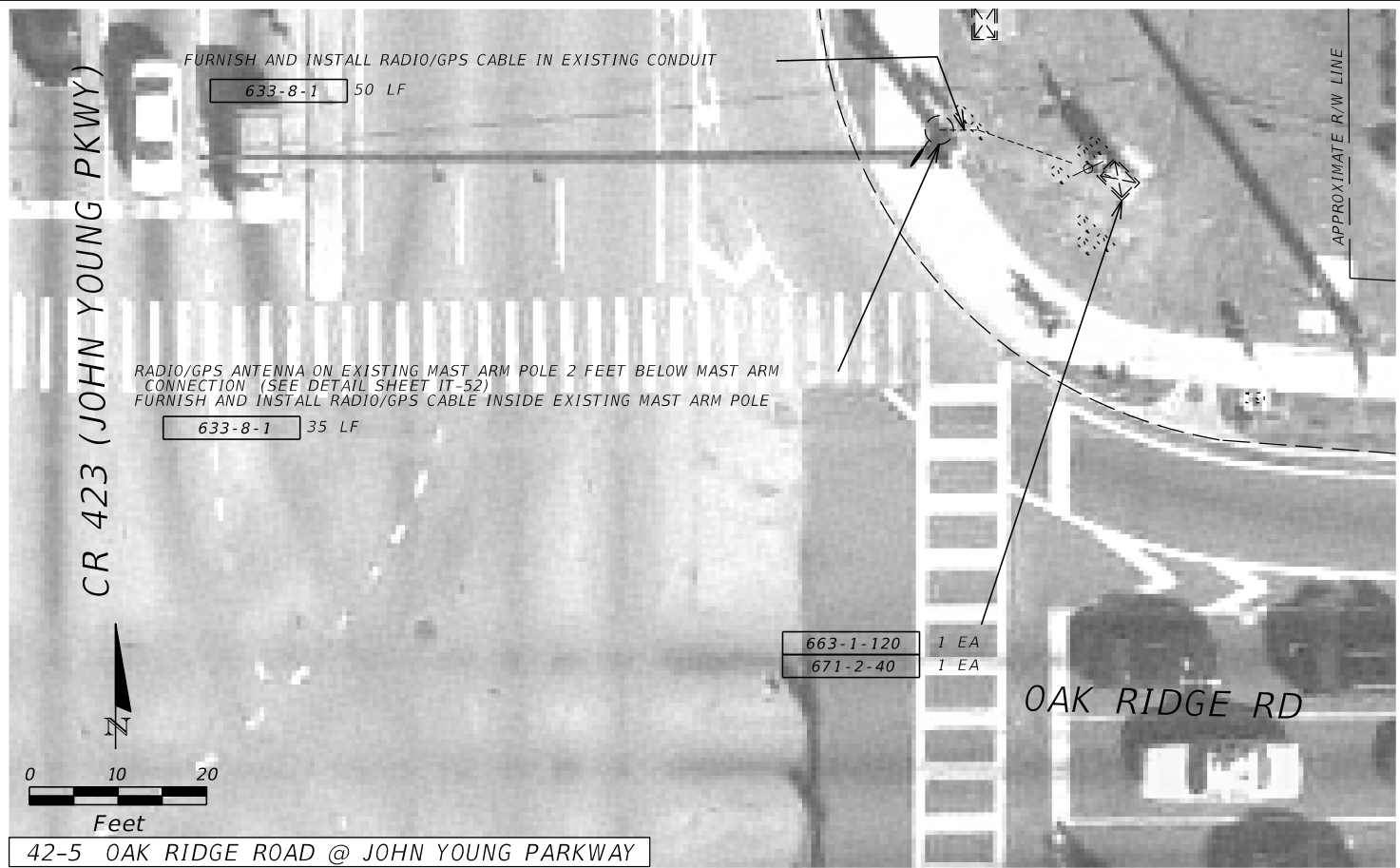
PLAN SHEET

SHEET NO.
IT-34

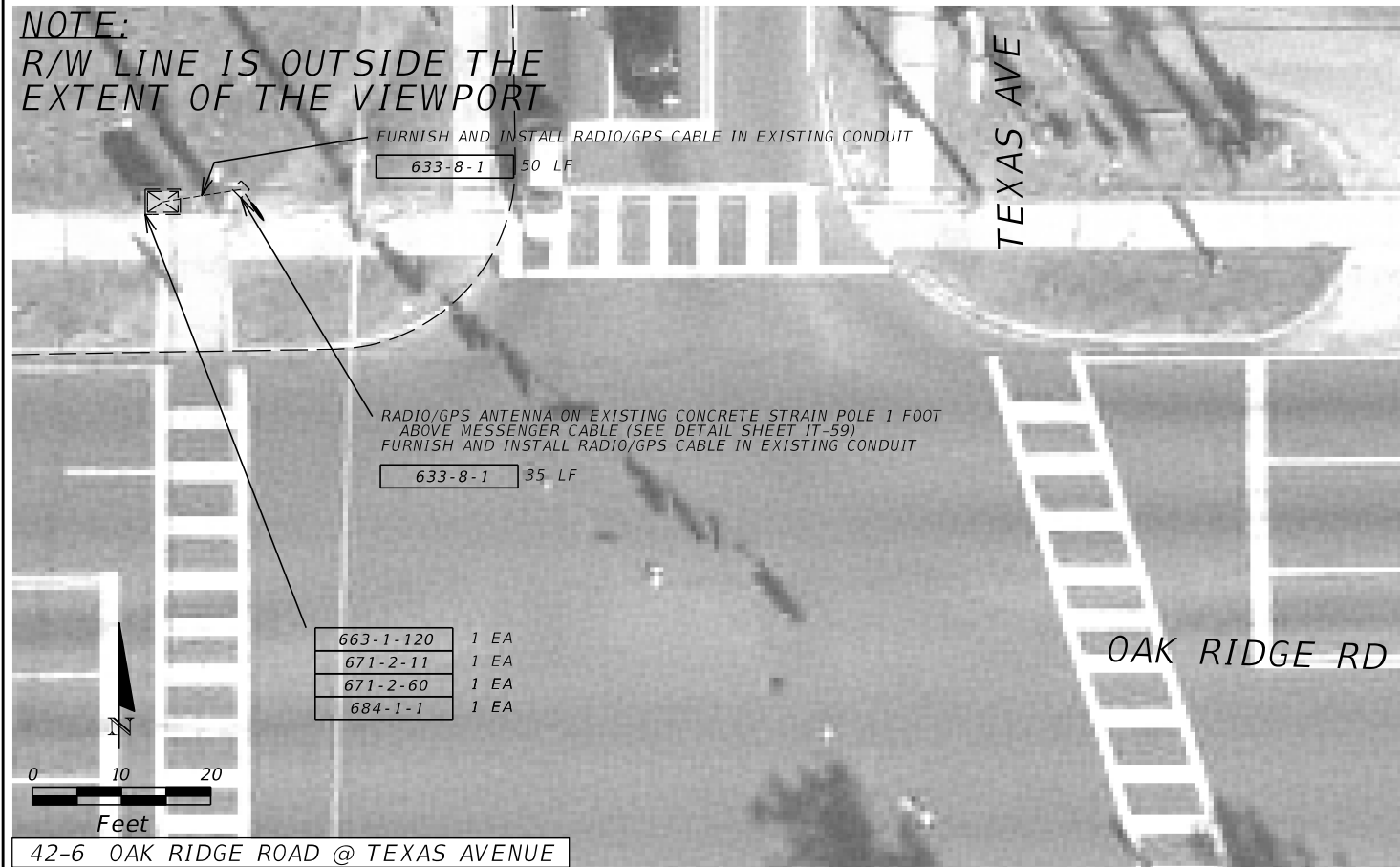
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



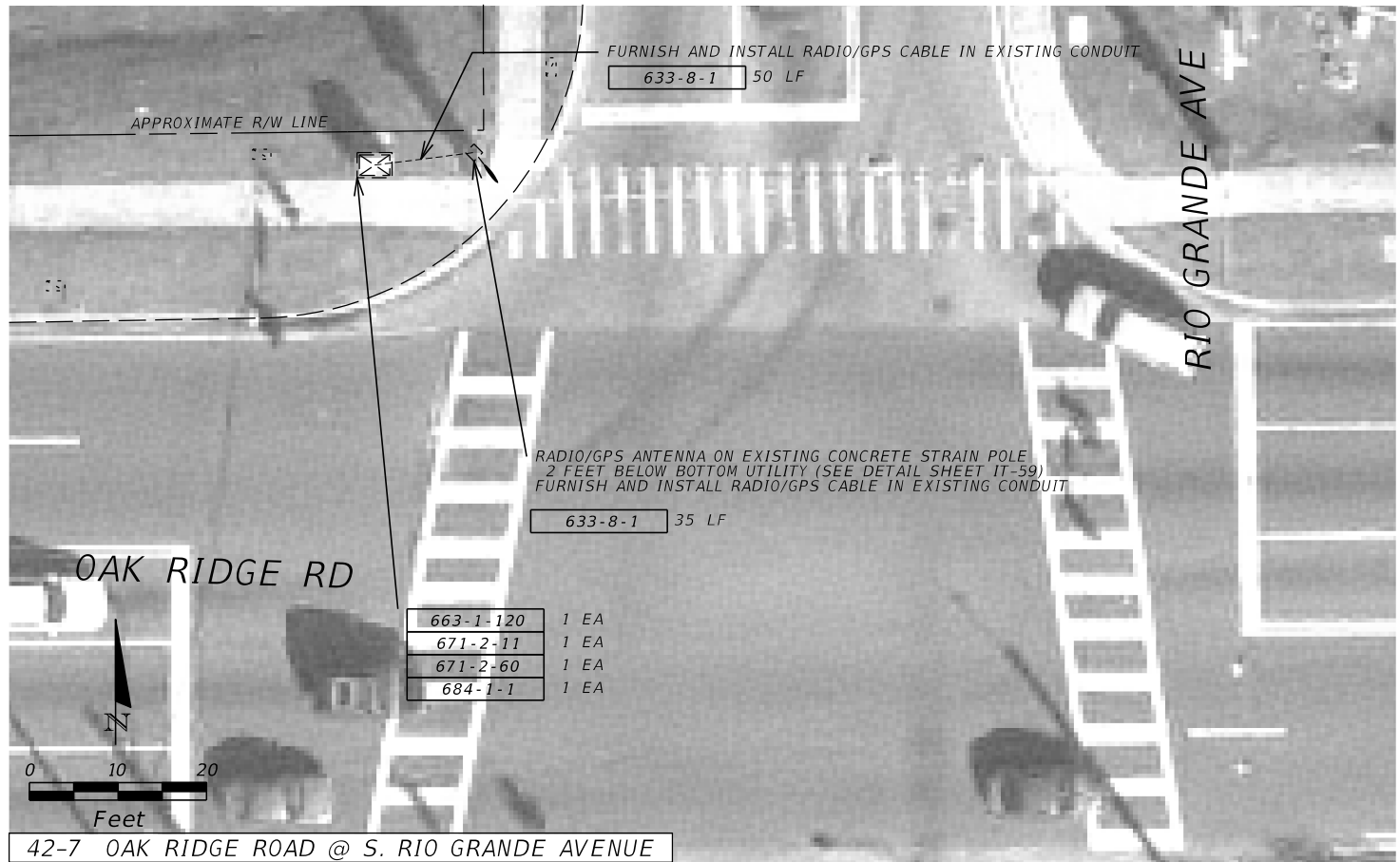
42-4 OAK RIDGE ROAD @ KINGSGATE DRIVE



42-5 OAK RIDGE ROAD @ JOHN YOUNG PARKWAY



42-6 OAK RIDGE ROAD @ TEXAS AVENUE



42-7 OAK RIDGE ROAD @ S. RIO GRANDE AVENUE

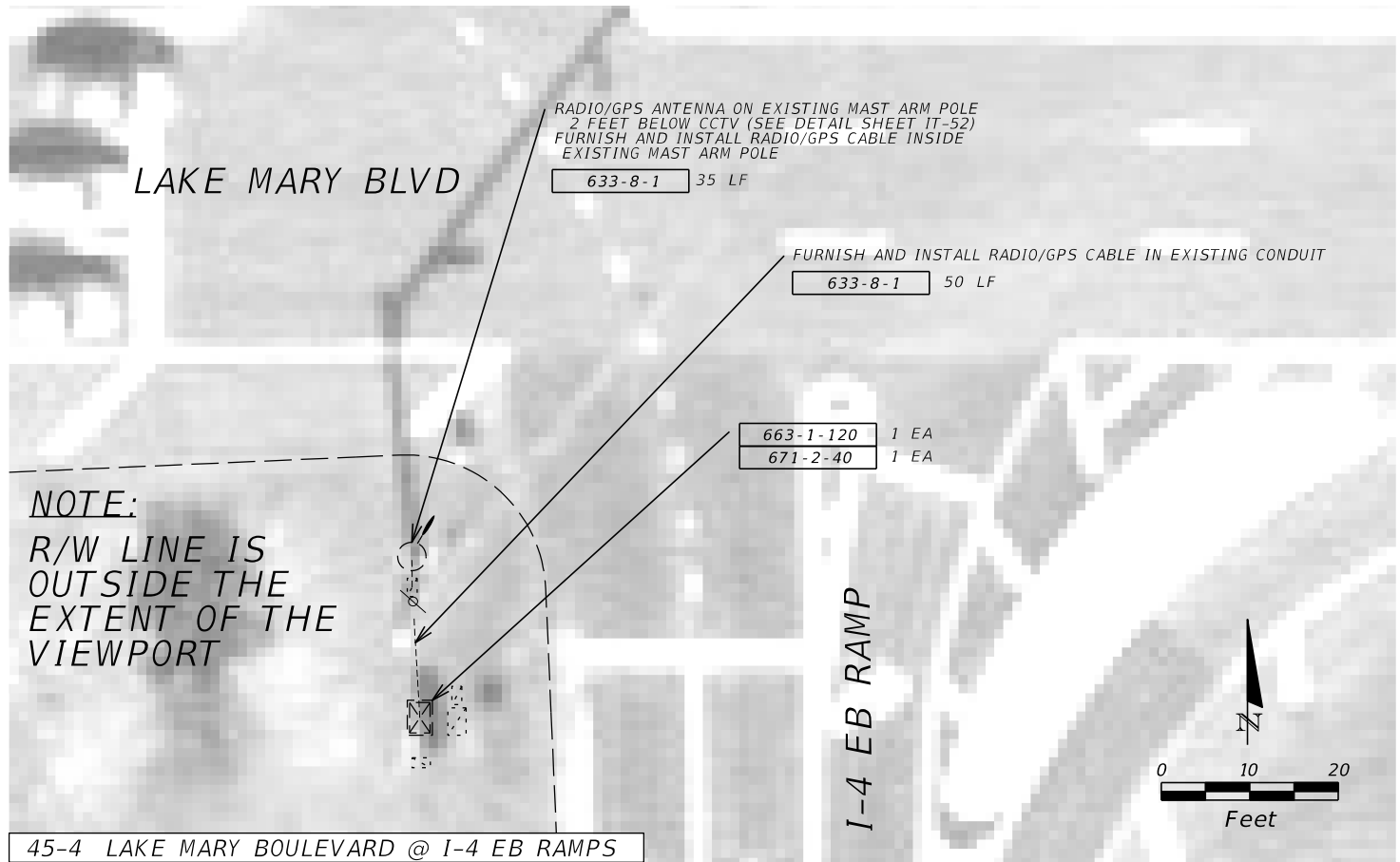
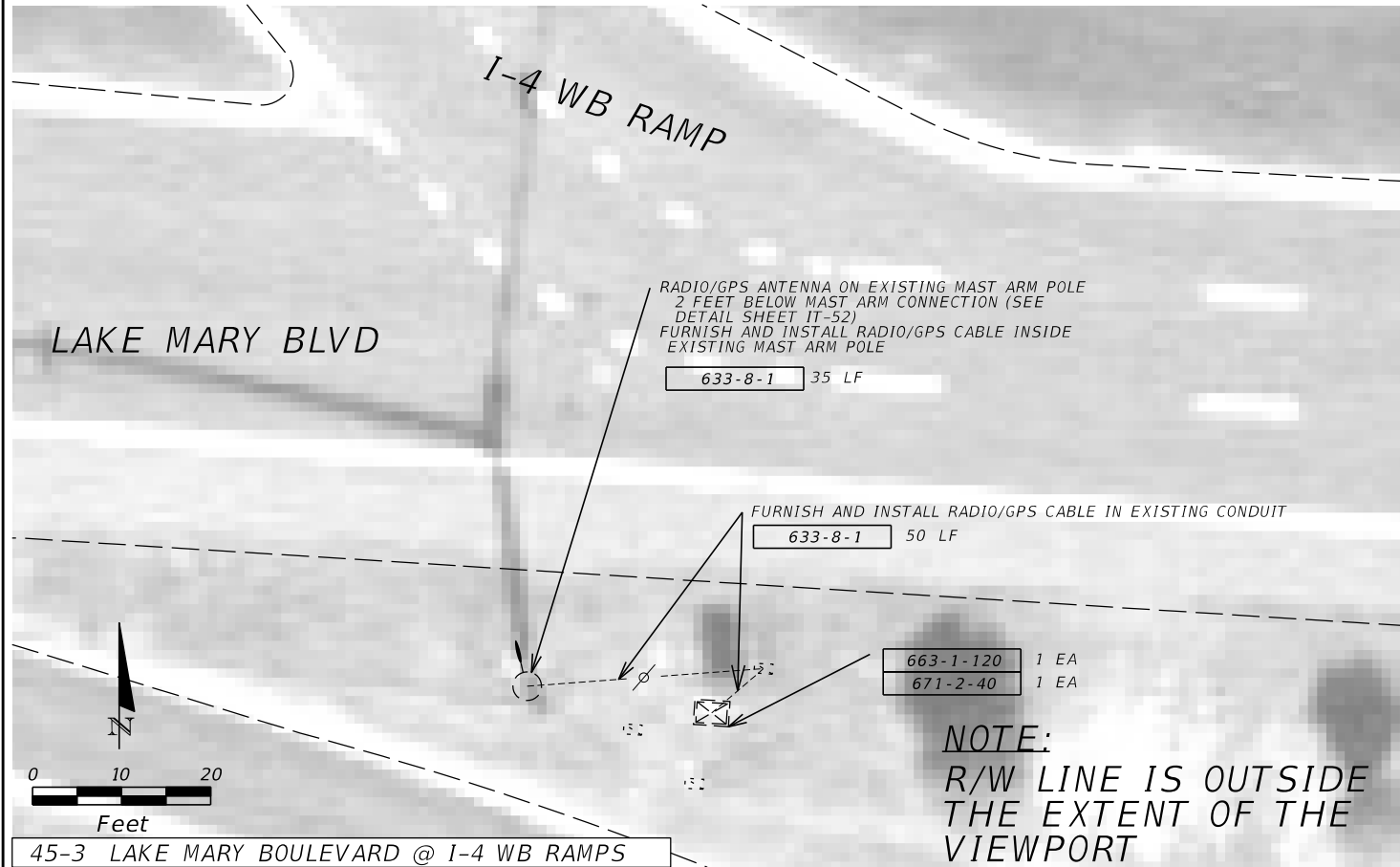
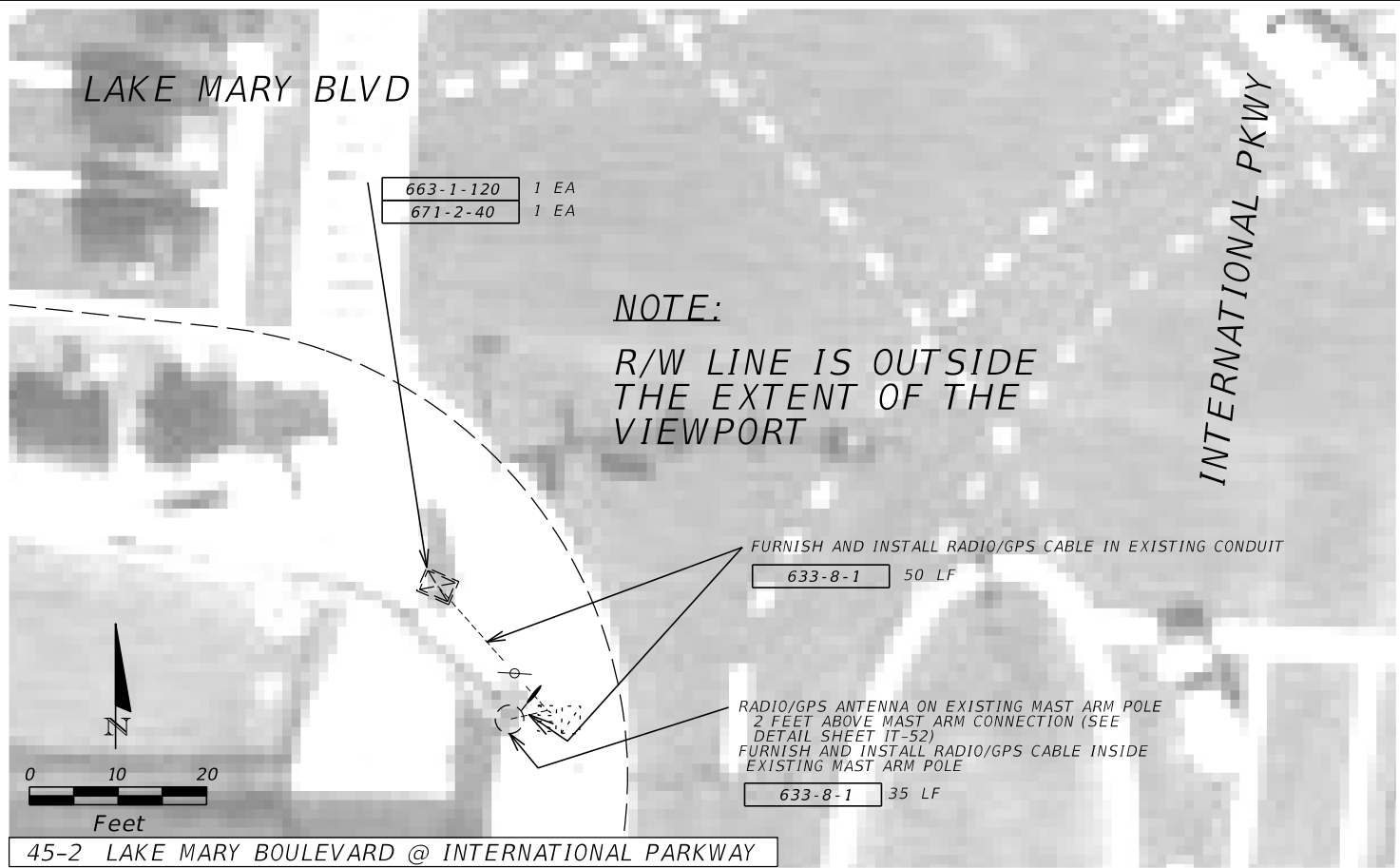
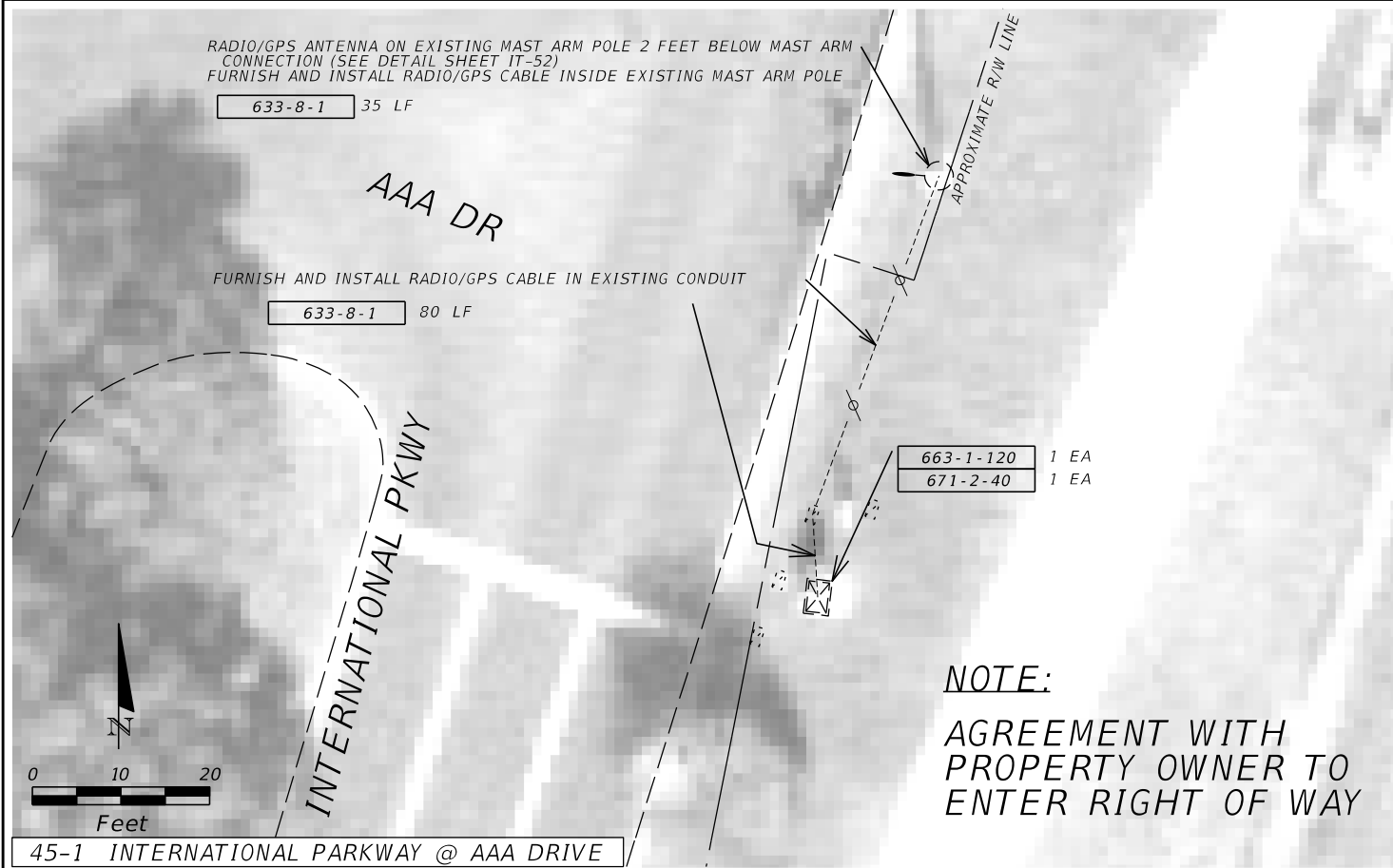
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KITTELSON & ASSOCIATES, INC.
 TSZ SHING TSOI, P.E. # 75055
 110 E BROWARD BLVD, SUITE 2410
 FORT LAUDERDALE, FLORIDA 33301
 TEL: (954) 828-1730
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 CERTIFICATION OF AUTHORIZATION 7524

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
VARIES	ORANGE SEMINOLE	435446-1-52-01

PLAN SHEET		SHEET NO. IT-35
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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

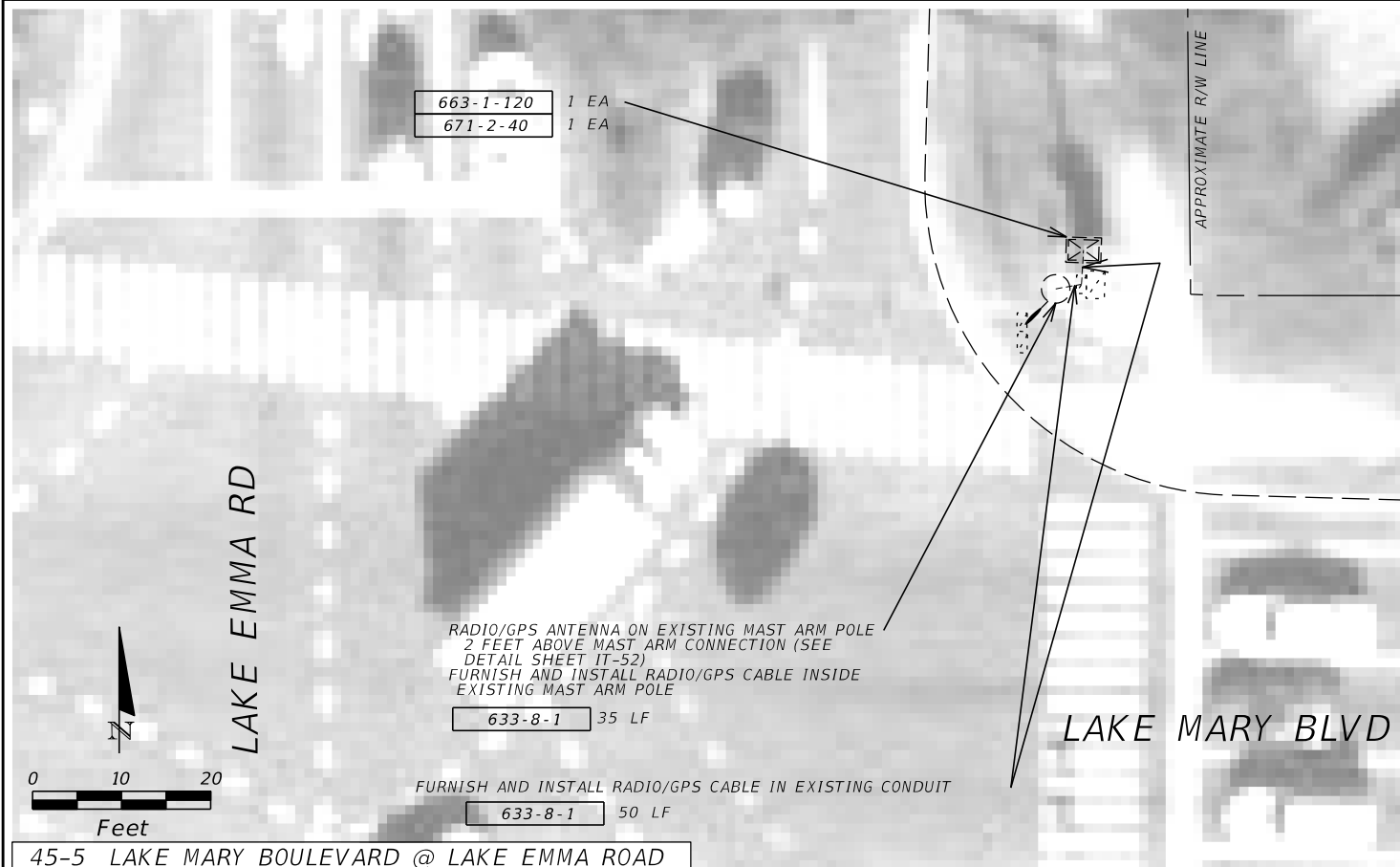
KITTELSON & ASSOCIATES, INC.
TSZ SHING TSOI, P.E. # 75055
110 E BROWARD BLVD, SUITE 2410
FORT LAUDERDALE, FLORIDA 33301
TEL: (954) 828-1730
FAX: (954) 828-1787
CERTIFICATION OF AUTHORIZATION 7524

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
VARIES	ORANGE SEMINOLE	435446-1-52-01

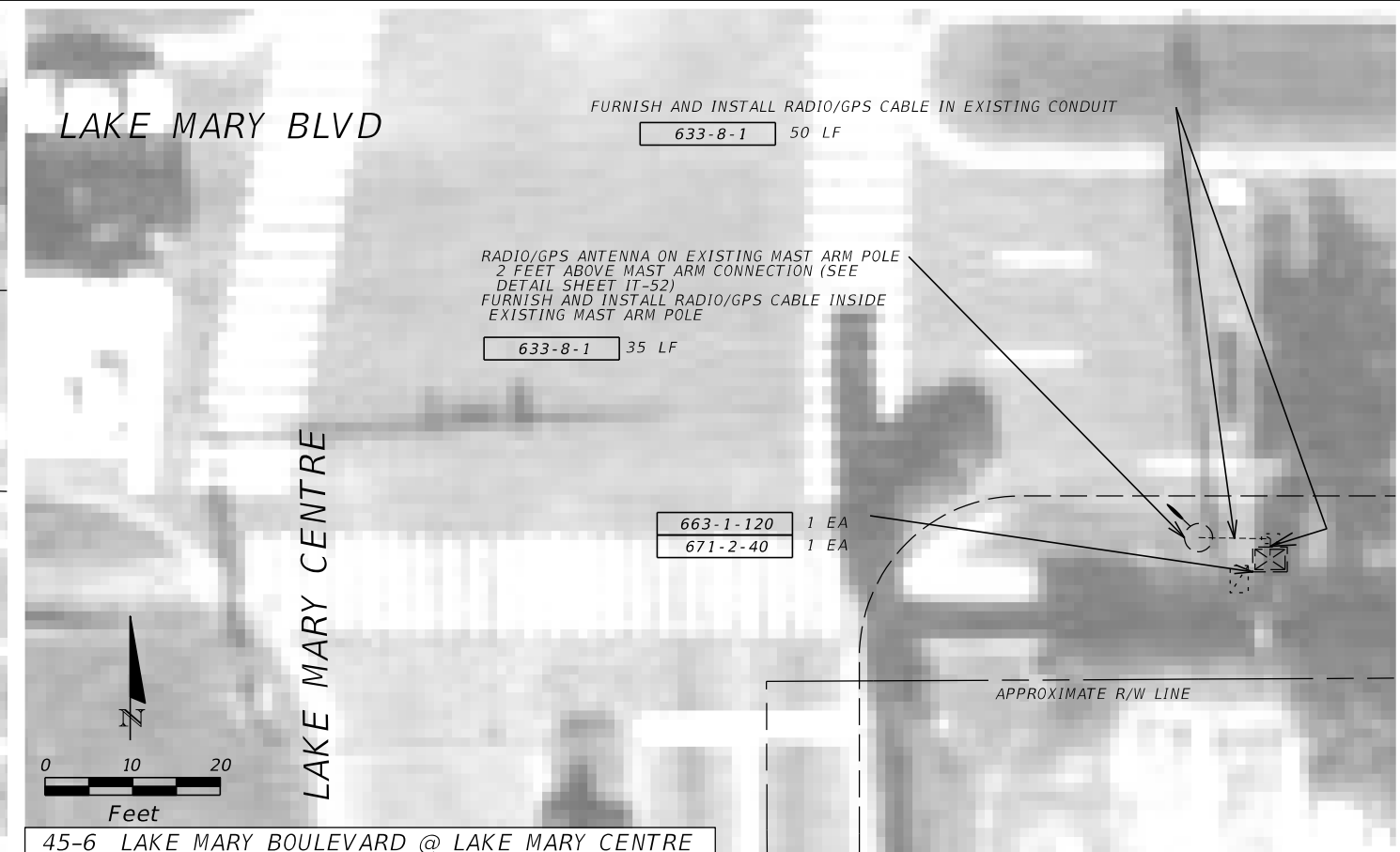
PLAN SHEET

SHEET NO.
IT-36

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



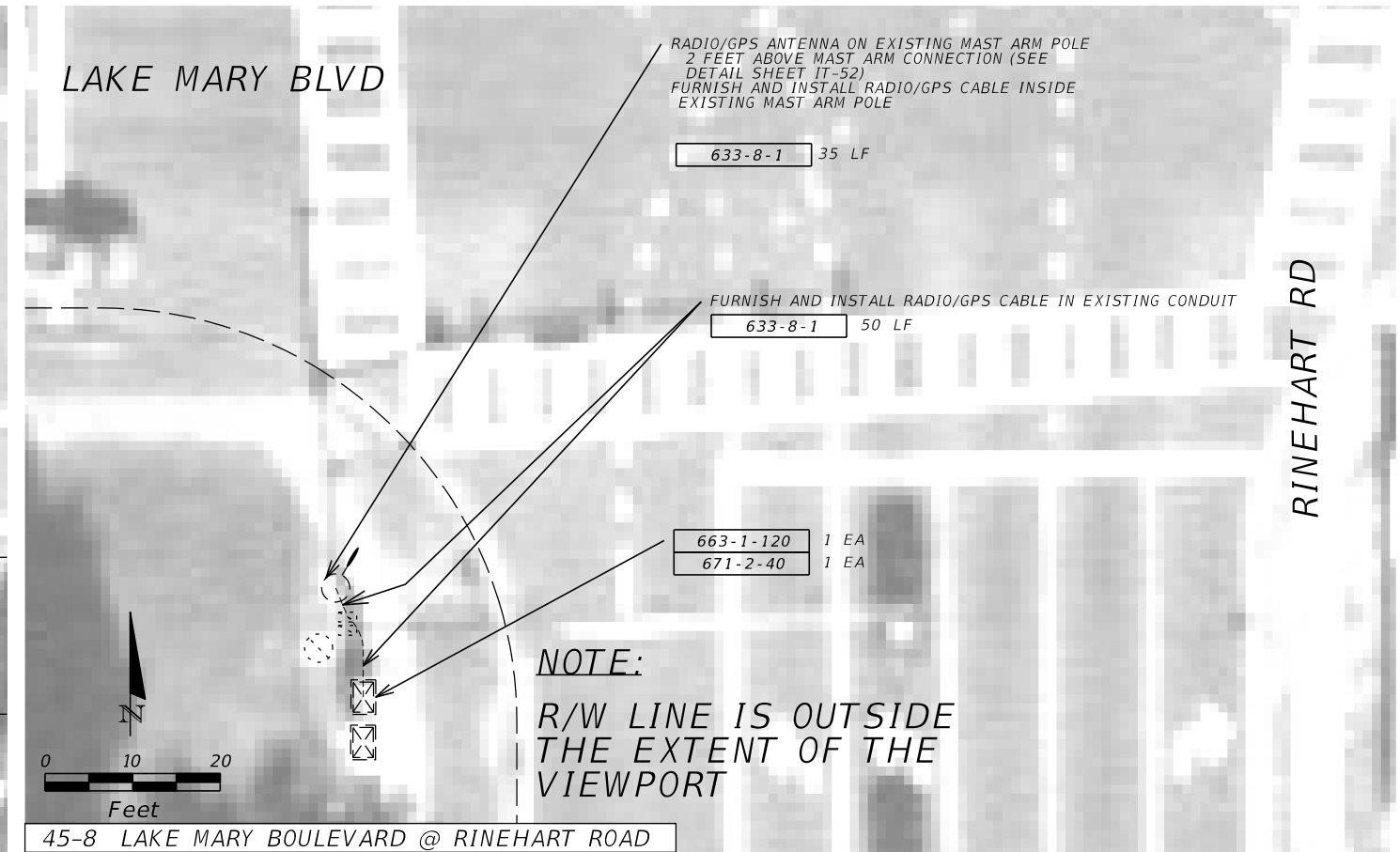
45-5 LAKE MARY BOULEVARD @ LAKE EMMA ROAD



45-6 LAKE MARY BOULEVARD @ LAKE MARY CENTRE



45-7 LAKE MARY BOULEVARD @ SUN DRIVE



45-8 LAKE MARY BOULEVARD @ RINEHART ROAD

REVISIONS	
DATE	DESCRIPTION

KITTELSON & ASSOCIATES, INC.
 TSZ SHING TSOI, P.E. # 75055
 110 E BROWARD BLVD, SUITE 2410
 FORT LAUDERDALE, FLORIDA 33301
 TEL: (954) 828-1730
 FAX: (954) 828-1787
 CERTIFICATION OF AUTHORIZATION 7524

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
VARIES	ORANGE SEMINOLE	435446-1-52-01

PLAN SHEET

SHEET NO.
IT-37

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NOTE:
EXISTING PERMANENT
RIGHT OF WAY ENTRY
FOR MAINTENANCE

LAKE MARY BLVD

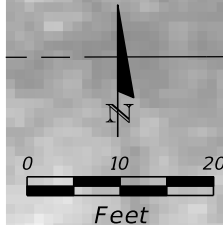
RADIO/GPS ANTENNA ON EXISTING MAST ARM POLE 2 FEET BELOW CCTV
(SEE DETAIL SHEET IT-52) AND TRIM TREES AROUND SIGNAL POLE
FURNISH AND INSTALL RADIO/GPS CABLE INSIDE EXISTING MAST ARM POLE

633-8-1 35 LF

FURNISH AND INSTALL RADIO/GPS CABLE IN EXISTING CONDUIT

633-8-1 50 LF

663-1-120 1 EA
671-2-40 1 EA



45-9 LAKE MARY BOULEVARD @ FOREST BOULEVARD

APPROXIMATE R/W LINE

FOREST BLVD

663-1-120 1 EA
671-2-40 1 EA

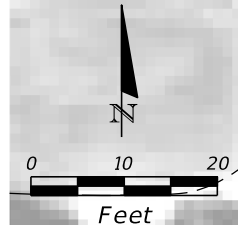
LAKE MARY BLVD

FURNISH AND INSTALL RADIO/GPS CABLE IN EXISTING CONDUIT

633-8-1 50 LF

RADIO/GPS ANTENNA ON EXISTING MAST ARM POLE 2 FEET ABOVE MAST
ARM CONNECTION (SEE DETAIL SHEET IT-52)
FURNISH AND INSTALL RADIO/GPS CABLE INSIDE EXISTING MAST ARM POLE

633-8-1 35 LF



45-10 LAKE MARY BOULEVARD @ LONGWOOD LAKE MARY ROAD

APPROXIMATE R/W LINE

LONGWOOD LAKE MARY RD

LAKE MARY BLVD

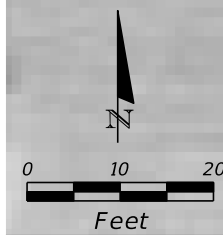
663-1-120 1 EA
671-2-40 1 EA

FURNISH AND INSTALL RADIO/GPS CABLE IN EXISTING CONDUIT

633-8-1 50 LF

RADIO/GPS ANTENNA ON EXISTING MAST ARM POLE
2 FEET ABOVE MAST ARM CONNECTION (SEE
DETAIL SHEET IT-51)
FURNISH AND INSTALL RADIO/GPS CABLE INSIDE
EXISTING MAST ARM POLE

633-8-1 35 LF



45-11 LAKE MARY BOULEVARD @ 4TH STREET

APPROXIMATE R/W LINE

4TH ST

NOTES:
CITY OF LAKE MARY
PROPERTY

663-1-120 1 EA
671-2-40 1 EA

LAKE MARY BLVD

FURNISH AND INSTALL RADIO/GPS CABLE IN EXISTING CONDUIT

633-8-1 50 LF

RADIO/GPS ANTENNA ON EXISTING MAST ARM POLE 2 FEET
ABOVE MAST ARM CONNECTION (SEE DETAIL IT-53)
FURNISH AND INSTALL RADIO/GPS CABLE INSIDE EXISTING MAST ARM POLE

633-8-1 35 LF



45-12 LAKE MARY BOULEVARD @ COUNTRY CLUB ROAD

APPROXIMATE R/W LINE

COUNTRY CLUB RD

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KITTELSON & ASSOCIATES, INC.
TSZ SHING TSOI, P.E. # 75055
110 E BROWARD BLVD, SUITE 2410
FORT LAUDERDALE, FLORIDA 33301
TEL: (954) 828-1730
FAX: (954) 828-1787
CERTIFICATION OF AUTHORIZATION 7524

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
VARIES	ORANGE SEMINOLE	435446-1-52-01

PLAN SHEET

SHEET NO.
IT-38

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LAKE MARY BLVD

PALMETTO ST

663-1-120 1 EA
671-2-40 1 EA

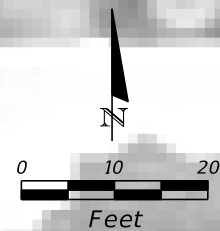
RADIO/GPS ANTENNA ON EXISTING MAST ARM POLE 2 FEET ABOVE MAST ARM CONNECTION (SEE DETAIL SHEET IT-54) FURNISH AND INSTALL RADIO/GPS CABLE INSIDE EXISTING MAST ARM POLE

633-8-1 35 LF

FURNISH AND INSTALL RADIO/GPS CABLE IN EXISTING CONDUIT

633-8-1 150 LF

APPROXIMATE R/W LINE



45-13 LAKE MARY BOULEVARD @ PALMETTO STREET

NOTE:
CITY OF LAKE MARY PROPERTY

APPROXIMATE R/W LINE

RADIO/GPS ANTENNA ON EXISTING MAST ARM POLE 2 FEET ABOVE MAST ARM CONNECTION (SEE DETAIL SHEET IT-51) FURNISH AND INSTALL RADIO/GPS CABLE INSIDE EXISTING MAST ARM POLE

633-8-1 35 LF

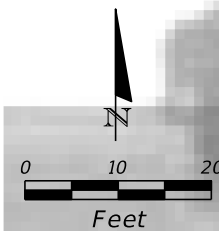
FURNISH AND INSTALL RADIO/GPS CABLE IN EXISTING CONDUIT

633-8-1 50 LF

LAKE MARY BLVD

SIR LAWRENCE DR

663-1-120 1 EA
671-2-40 1 EA



45-14 LAKE MARY BOULEVARD @ SIR LAWRENCE DRIVE

LAKE MARY BLVD

COLLEGE DR

APPROXIMATE R/W LINE

FURNISH AND INSTALL RADIO/GPS CABLE IN EXISTING CONDUIT

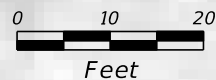
633-8-1 50 LF

RADIO/GPS ANTENNA ON EXISTING MAST ARM POLE 2 FEET ABOVE MAST ARM CONNECTION (SEE DETAIL SHEET IT-52) FURNISH AND INSTALL RADIO/GPS CABLE INSIDE EXISTING MAST ARM POLE

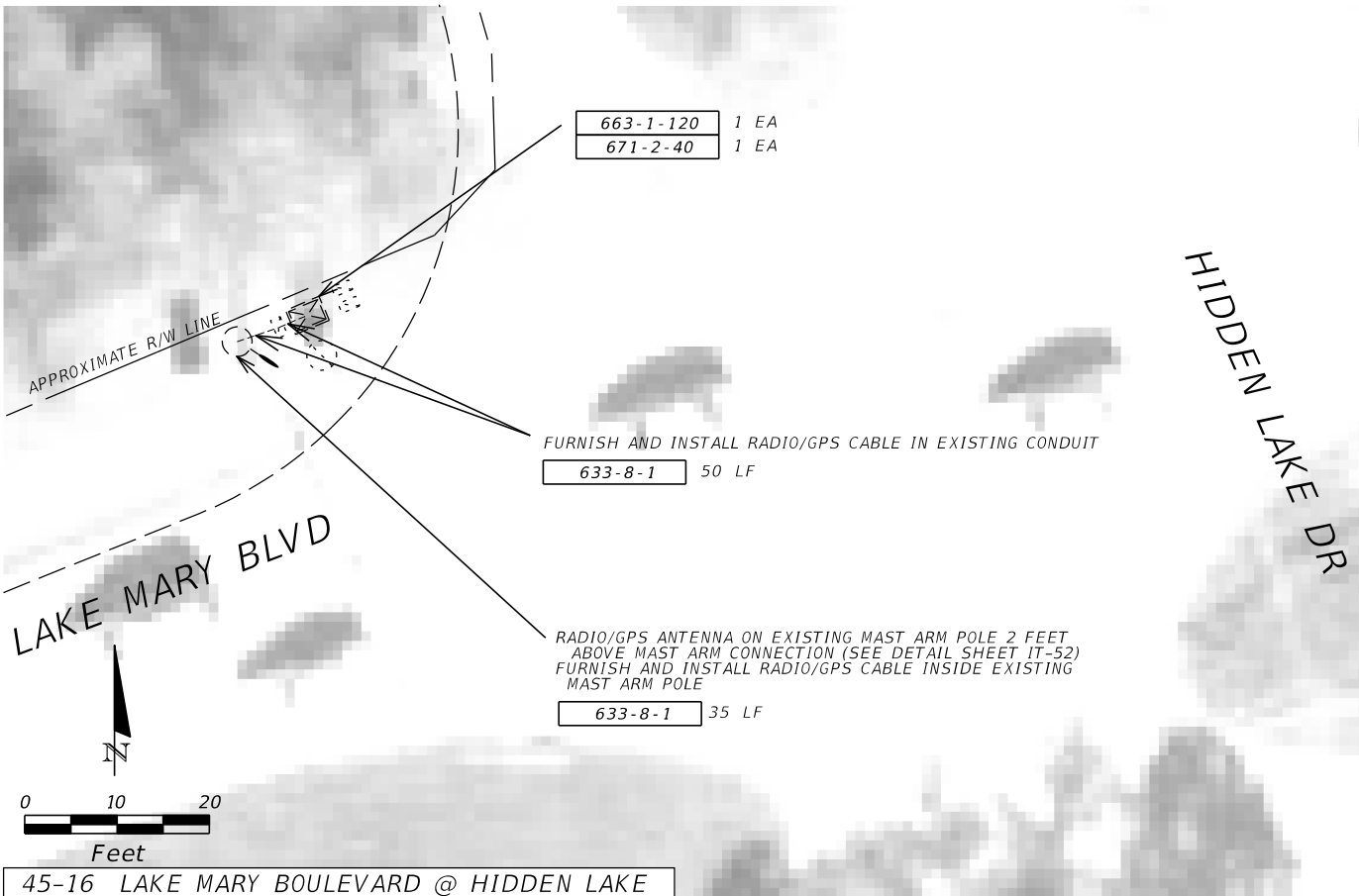
633-8-1 35 LF

663-1-120 1 EA
671-2-40 1 EA

NOTES:
SEMINOLE COUNTY
B C C PROPERTY



45-15 LAKE MARY BOULEVARD @ COLLEGE DRIVE



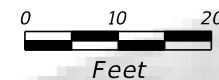
663-1-120 1 EA
671-2-40 1 EA

FURNISH AND INSTALL RADIO/GPS CABLE IN EXISTING CONDUIT

633-8-1 50 LF

RADIO/GPS ANTENNA ON EXISTING MAST ARM POLE 2 FEET ABOVE MAST ARM CONNECTION (SEE DETAIL SHEET IT-52) FURNISH AND INSTALL RADIO/GPS CABLE INSIDE EXISTING MAST ARM POLE

633-8-1 35 LF



45-16 LAKE MARY BOULEVARD @ HIDDEN LAKE

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

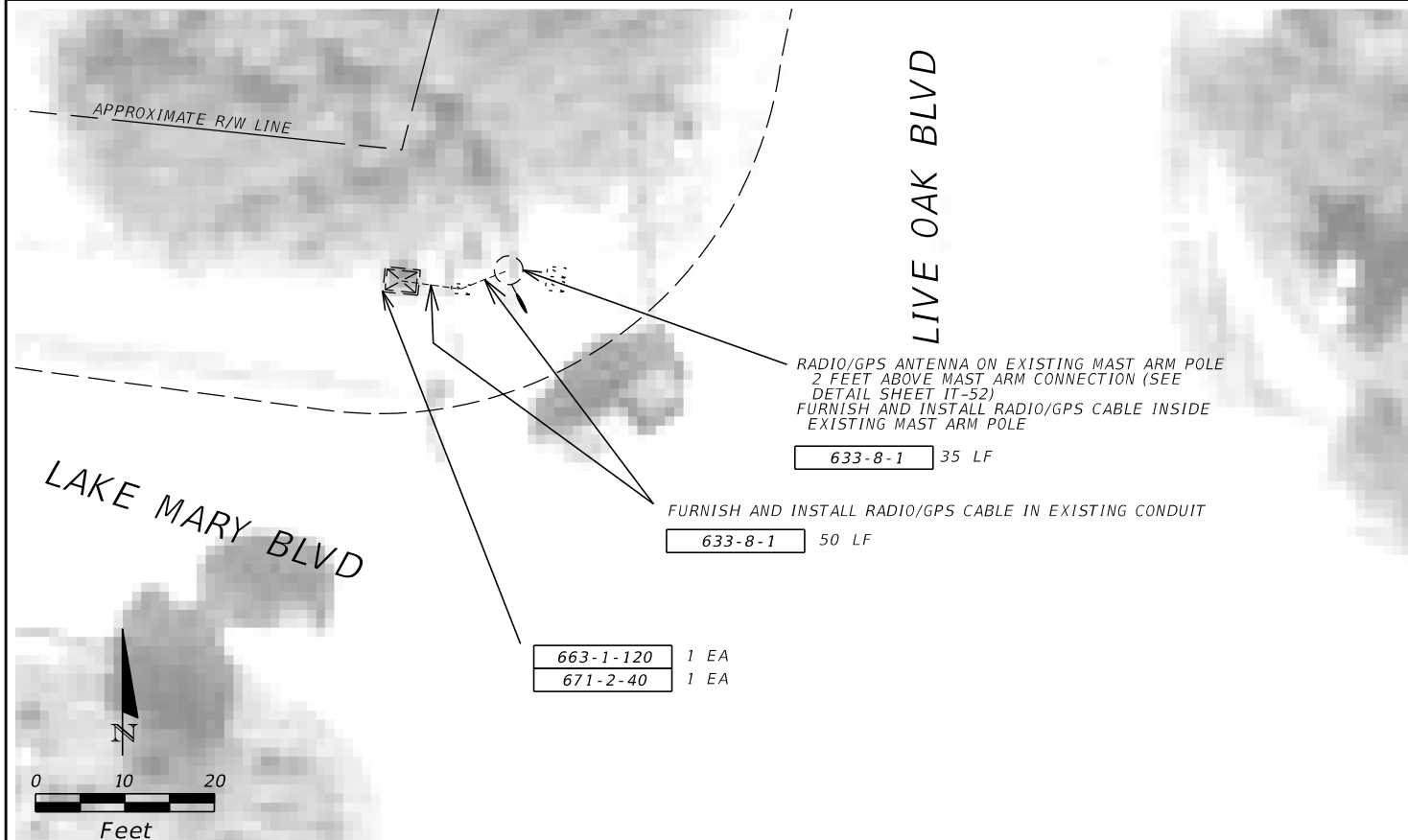
KITTELSON & ASSOCIATES, INC.
TSZ SHING TSOI, P.E. # 75055
110 E BROWARD BLVD, SUITE 2410
FORT LAUDERDALE, FLORIDA 33301
TEL: (954) 828-1730
FAX: (954) 828-1787
CERTIFICATION OF AUTHORIZATION 7524

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
VARIES	ORANGE SEMINOLE	435446-1-52-01

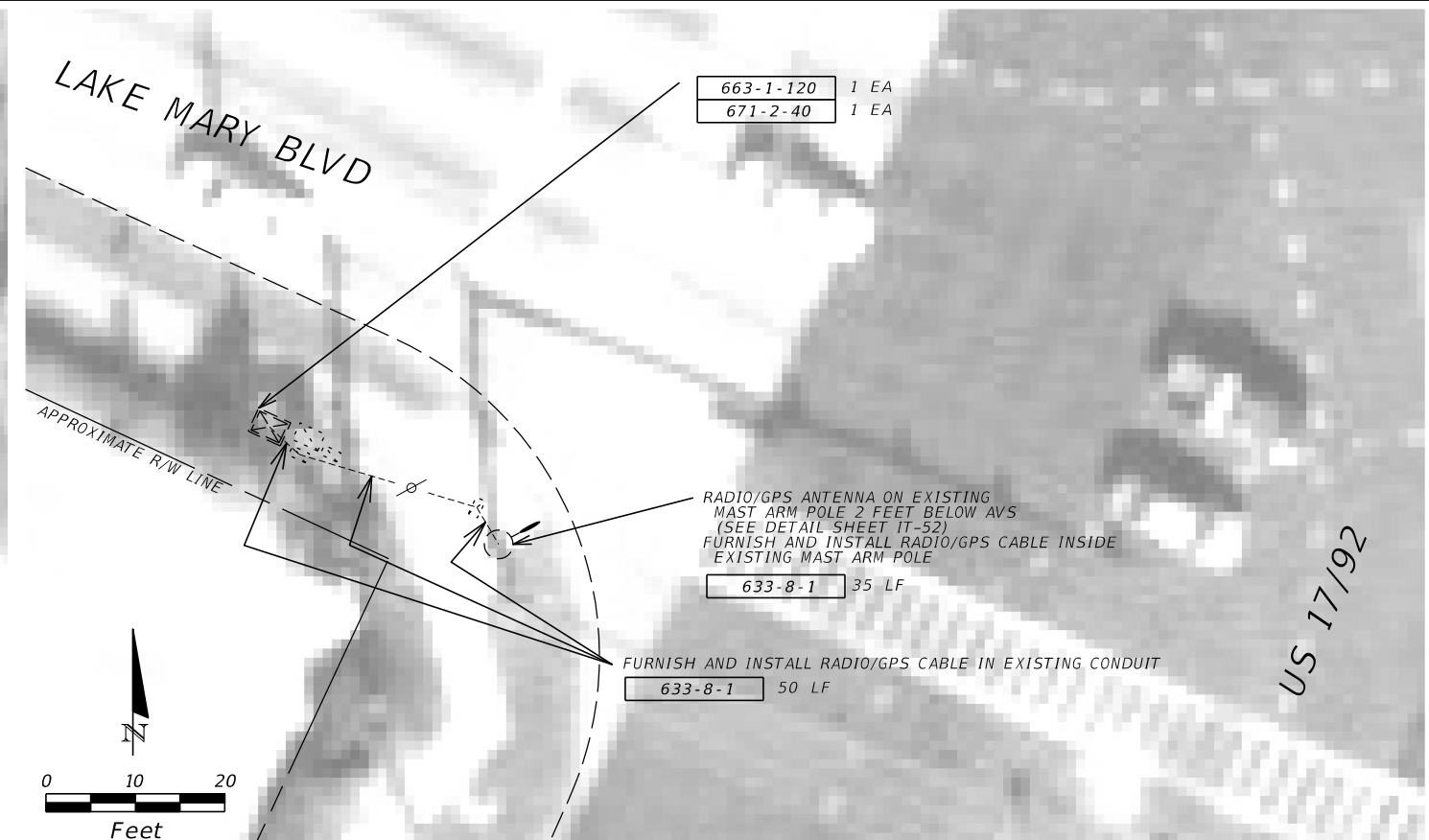
PLAN SHEET

SHEET NO.
IT-39

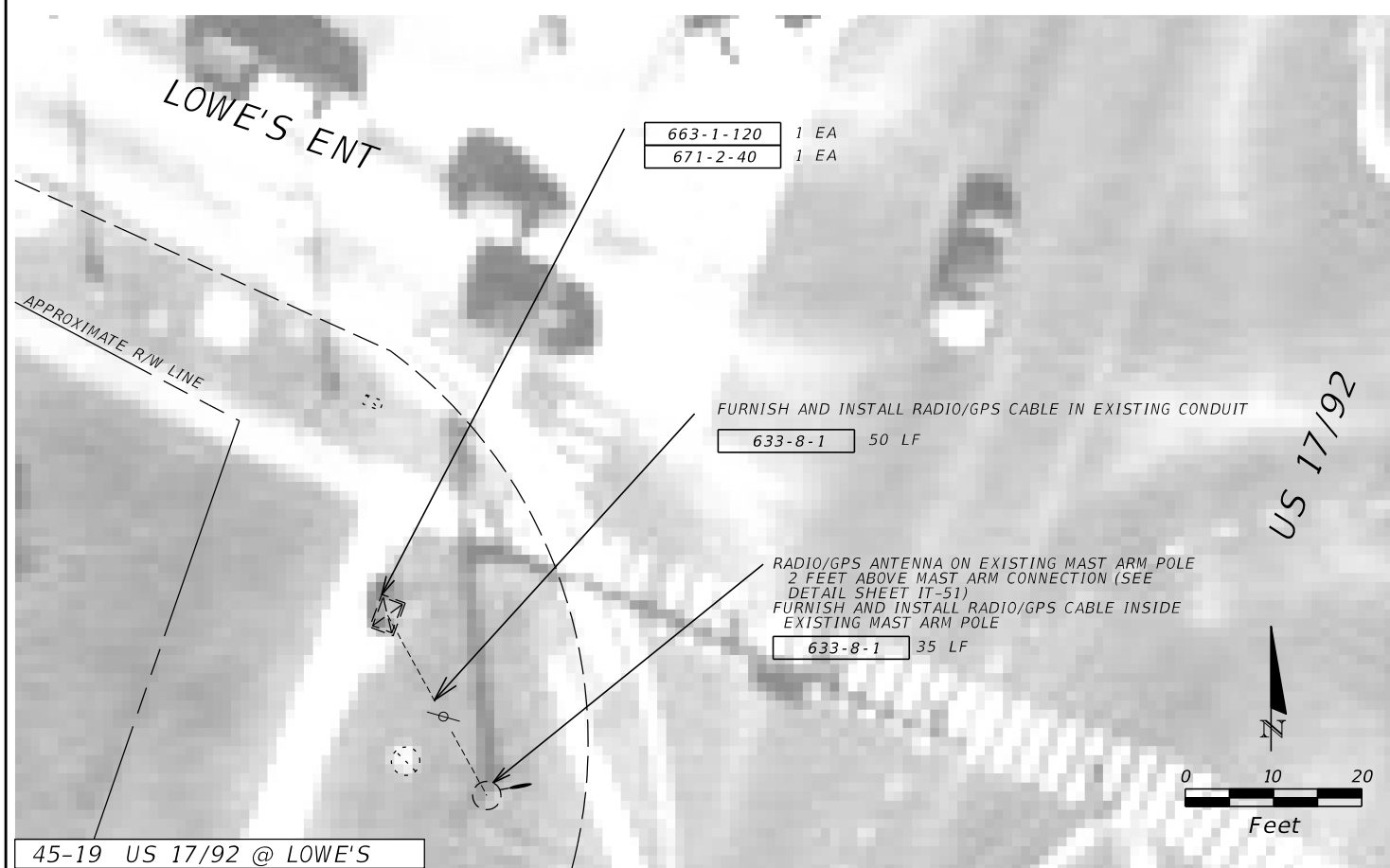
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



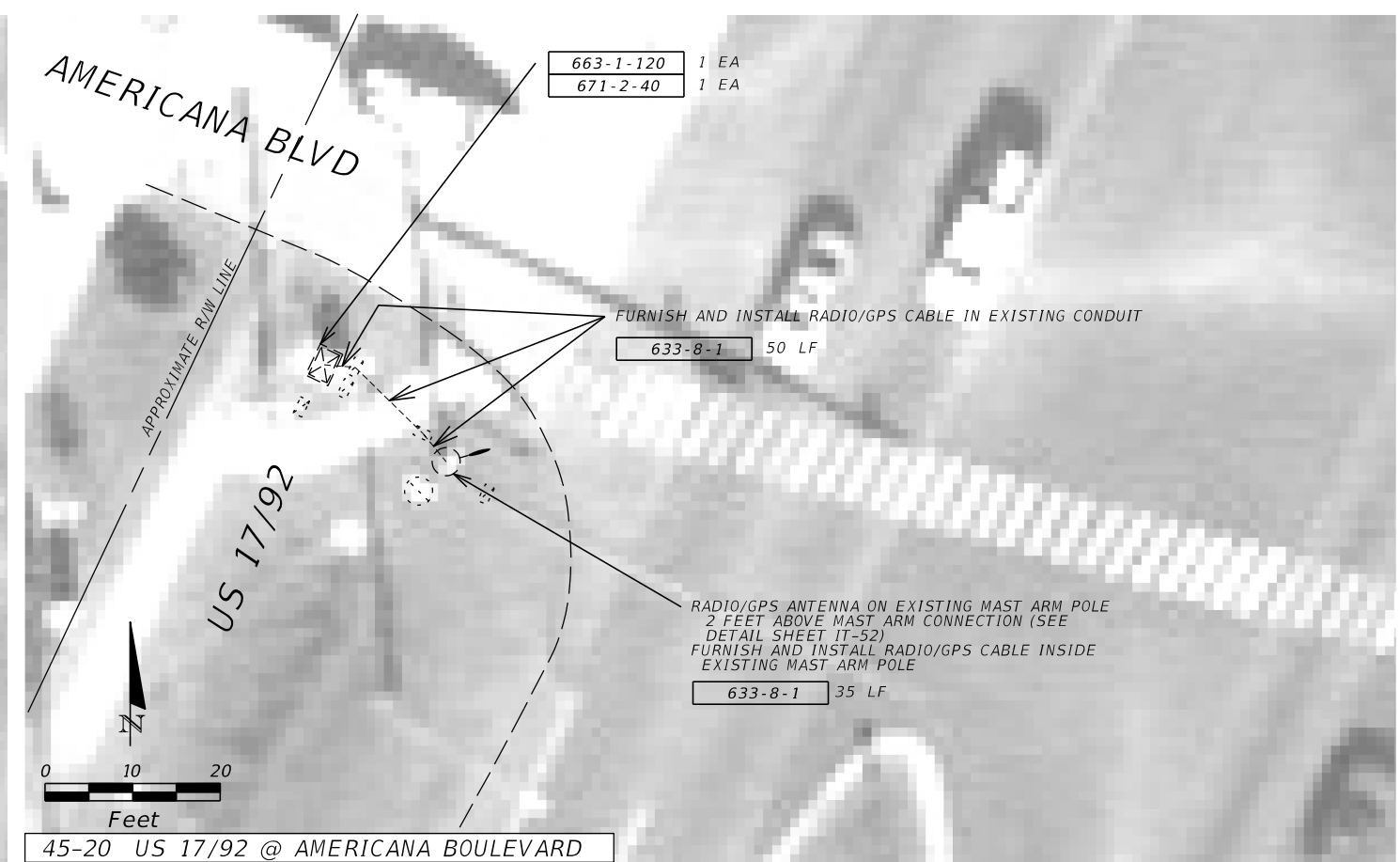
45-17 LAKE MARY BOULEVARD @ LIVE OAK BOULEVARD



45-18 LAKE MARY BOULEVARD @ US 17/92



45-19 US 17/92 @ LOWE'S



45-20 US 17/92 @ AMERICANA BOULEVARD

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KITTELSON & ASSOCIATES, INC.
 TSZ SHING TSOI, P.E. # 75055
 110 E BROWARD BLVD, SUITE 2410
 FORT LAUDERDALE, FLORIDA 33301
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
VARIES	ORANGE SEMINOLE	435446-1-52-01

PLAN SHEET

SHEET NO.
IT-40

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

AIRPORT BLVD

SR 46

RADIO/GPS ANTENNA ON EXISTING CONCRETE STRAIN POLE 3 FEET ABOVE MESSENGER CABLE (SEE DETAIL SHEET IT-57)
FURNISH AND INSTALL RADIO/GPS CABLE IN EXISTING CONDUIT

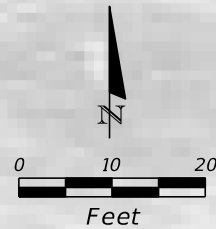
633-8-1 35 LF

FURNISH AND INSTALL RADIO/GPS CABLE IN EXISTING CONDUIT

633-8-1 50 LF

663-1-120 1 EA
671-2-40 1 EA

NOTE:
R/W LINE IS OUTSIDE THE EXTENT OF THE VIEWPORT



APPROXIMATE R/W LINE

46E-1 SR 46 @ AIRPORT BOULEVARD

SR 46

RADIO/GPS ANTENNA ON EXISTING SIGNAL POLE 2 FEET ABOVE MAST ARM CONNECTION (SEE DETAIL SHEET IT-55)
FURNISH AND INSTALL RADIO/GPS CABLE INSIDE EXISTING SIGNAL POLE

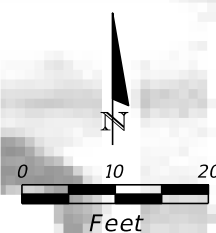
633-8-1 35 LF

FURNISH AND INSTALL RADIO/GPS CABLE IN EXISTING CONDUIT

633-8-1 30 LF

FURNISH AND INSTALL PVC CONDUIT (OPEN TRENCH) UNDERGROUND
FURNISH AND INSTALL RADIO/GPS CABLE IN NEW CONDUIT

630-2-11 20 LF
633-8-1 20 LF



46E-2 SR 46 @ US 17/92

663-1-120 1 EA
670-5-400 1 AS
671-2-40 1 EA

APPROXIMATE R/W LINE

US 17/92

APPROXIMATE R/W LINE

663-1-120 1 EA
671-2-40 1 EA

FURNISH AND INSTALL RADIO/GPS CABLE IN EXISTING CONDUIT

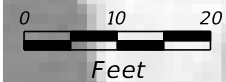
633-8-1 50 LF

RADIO/GPS ANTENNA IN EXISTING SIGNAL POLE 2 FEET ABOVE STREET NAME SIGNS (SEE DETAIL SHEET IT-68)
FURNISH AND INSTALL RADIO/GPS CABLE INSIDE EXISTING SIGNAL POLE

633-8-1 35 LF

PARK AVE

1ST ST



46E-3 1ST STREET @ PARK AVENUE

APPROXIMATE R/W LINE

663-1-120 1 EA
671-2-40 1 EA

RADIO/GPS ANTENNA ON EXISTING SIGNAL POLE 2 FEET ABOVE STREET NAME SIGNS (SEE DETAIL SHEET IT-68)
FURNISH AND INSTALL RADIO/GPS CABLE INSIDE EXISTING SIGNAL POLE

633-8-1 35 LF

1ST ST

FURNISH AND INSTALL RADIO/GPS CABLE IN EXISTING CONDUIT

633-8-1 50 LF

PALMETTO AVE



46E-4 1ST STREET @ PALMETTO AVENUE

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KITTELSON & ASSOCIATES, INC.
TSZ SHING TSOI, P.E. # 75055
110 E BROWARD BLVD, SUITE 2410
FORT LAUDERDALE, FLORIDA 33301
TEL: (954) 828-1730
FAX: (954) 828-1787
CERTIFICATION OF AUTHORIZATION 7524

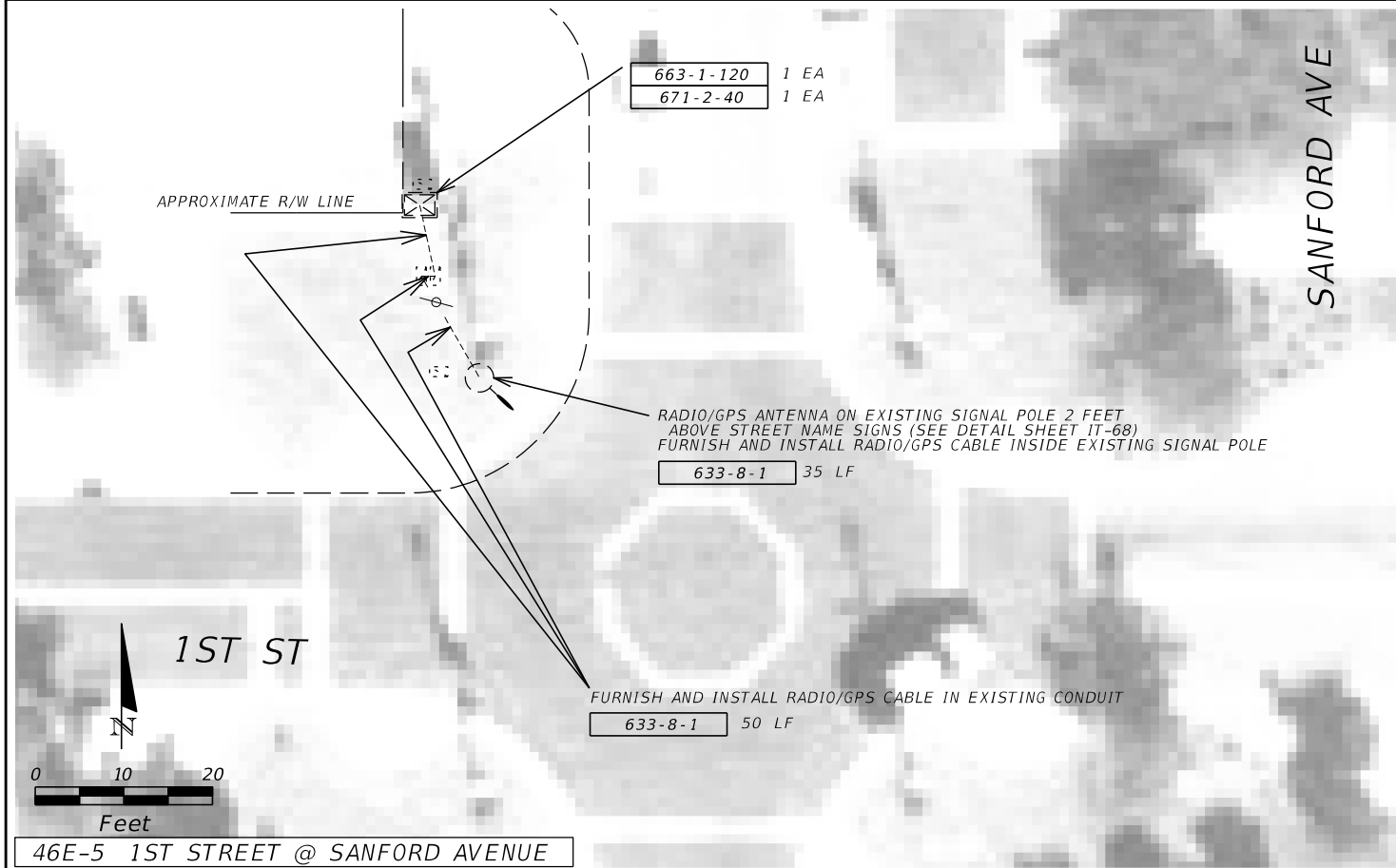
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
VARIES	ORANGE SEMINOLE	435446-1-52-01

PLAN SHEET

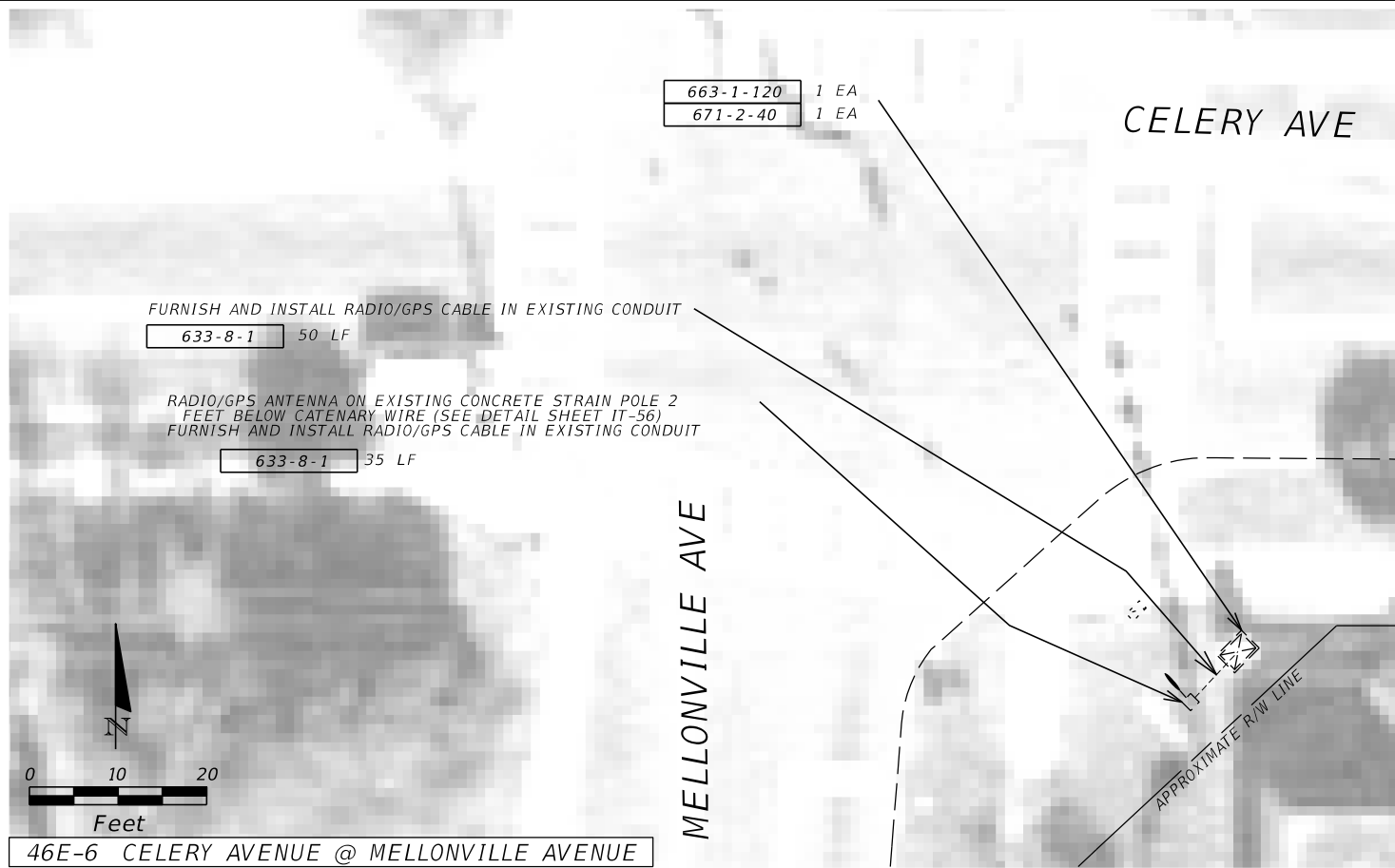
SHEET NO.

IT-41

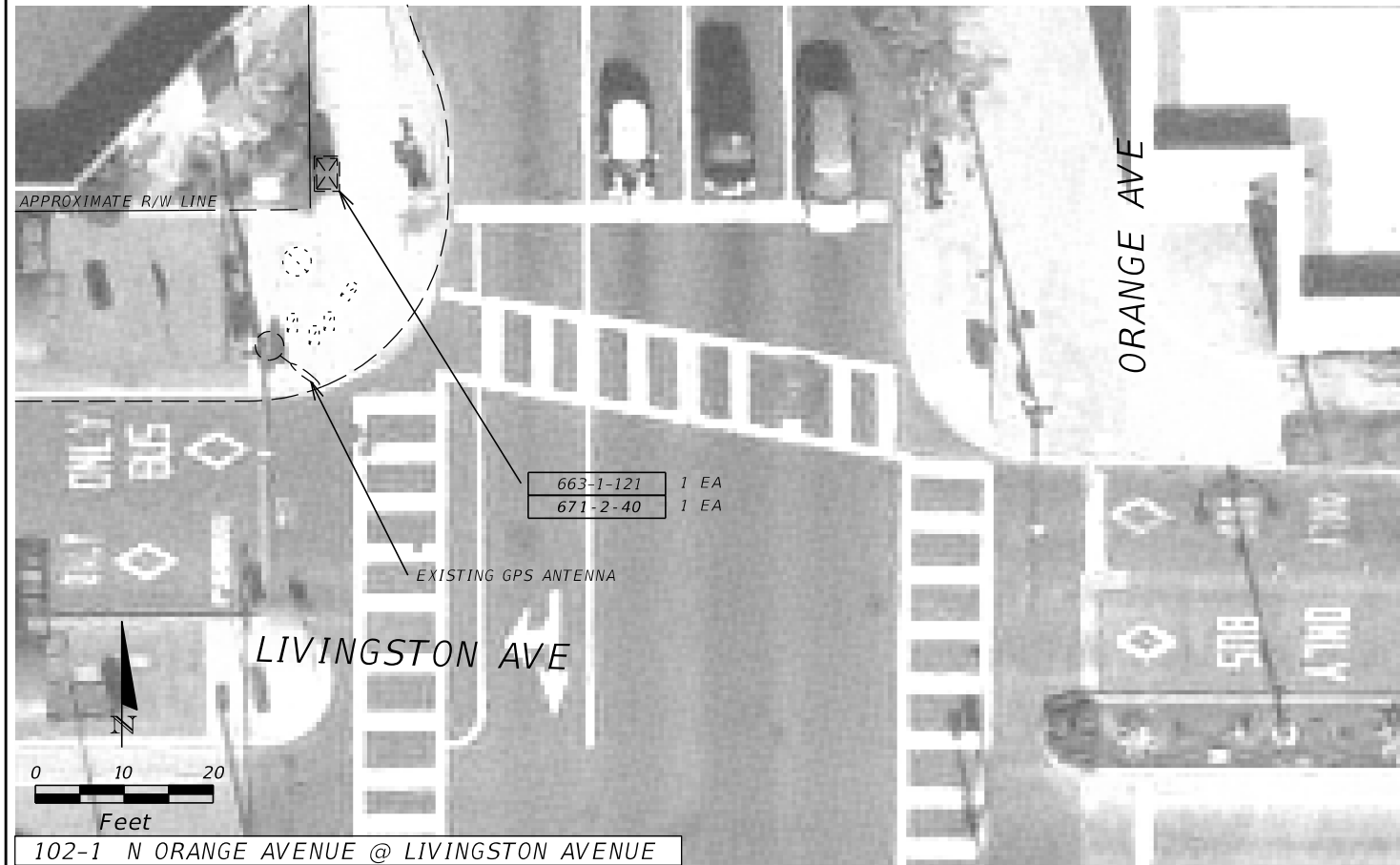
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



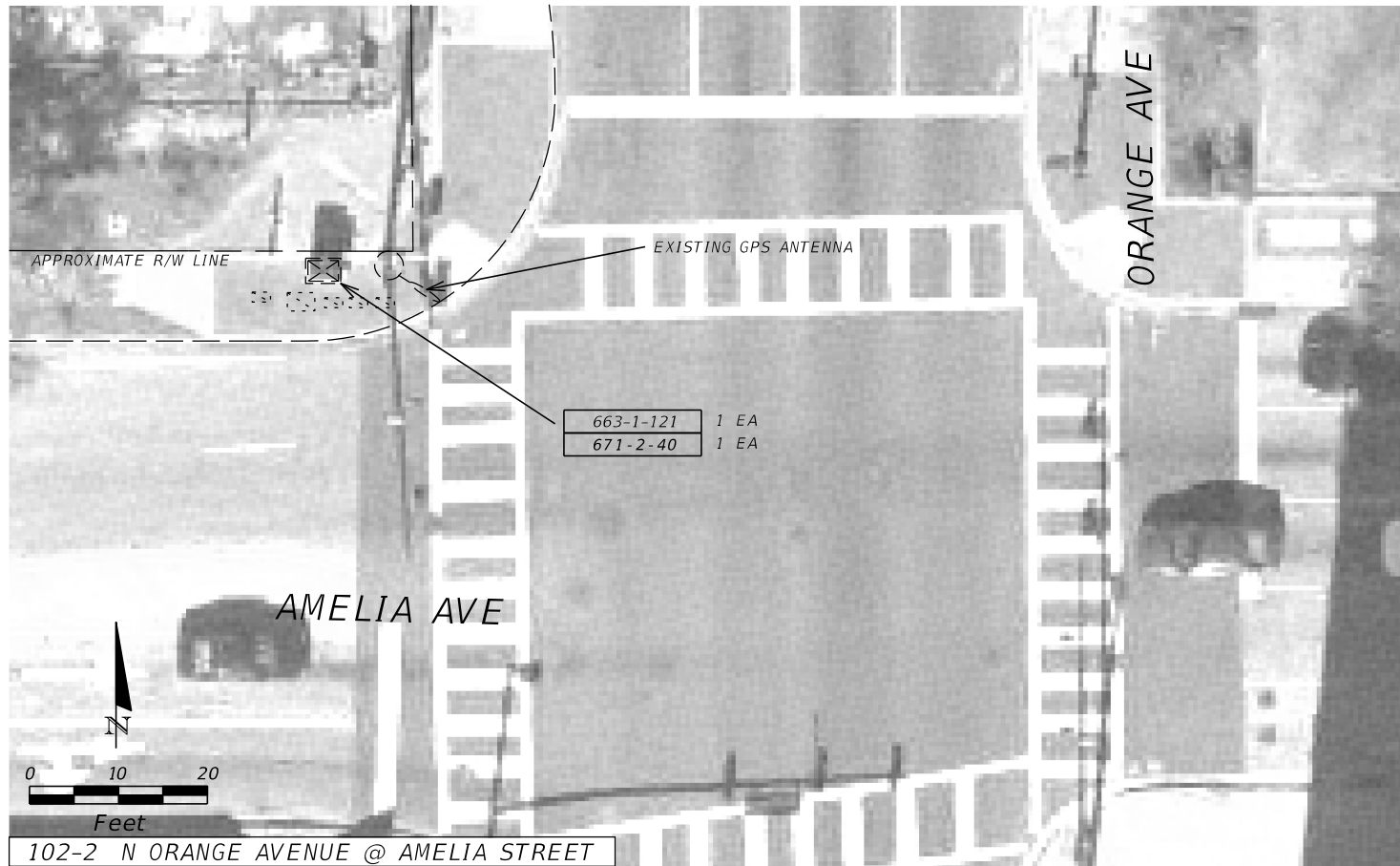
46E-5 1ST STREET @ SANFORD AVENUE



46E-6 CELERY AVENUE @ MELLONVILLE AVENUE



102-1 N ORANGE AVENUE @ LIVINGSTON AVENUE



102-2 N ORANGE AVENUE @ AMELIA STREET

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

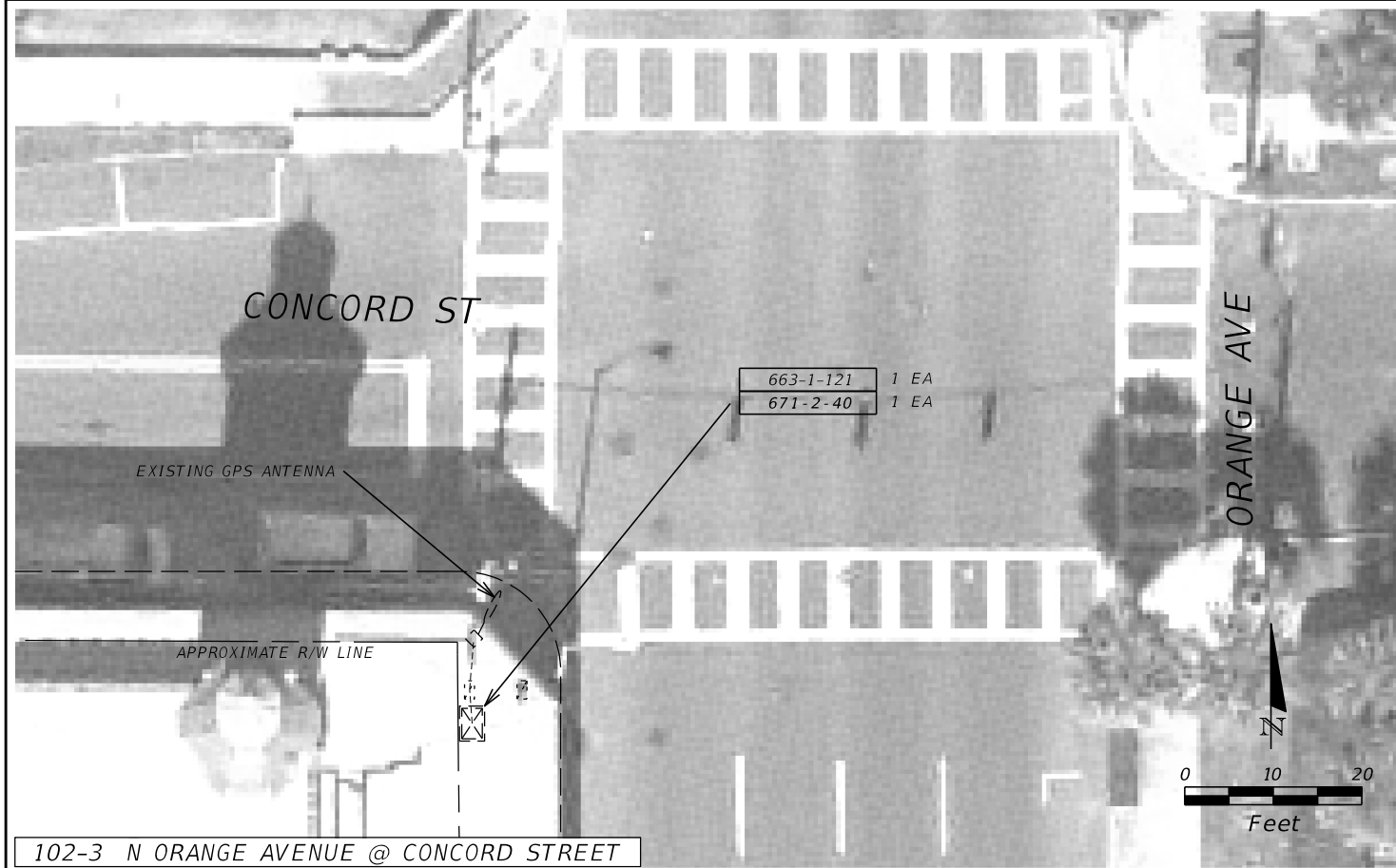
KITTELSON & ASSOCIATES, INC.
 TSZ SHING TSOI, P.E. # 75055
 110 E BROWARD BLVD, SUITE 2410
 FORT LAUDERDALE, FLORIDA 33301
 TEL: (954) 828-1730
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
VARIES	ORANGE SEMINOLE	435446-1-52-01

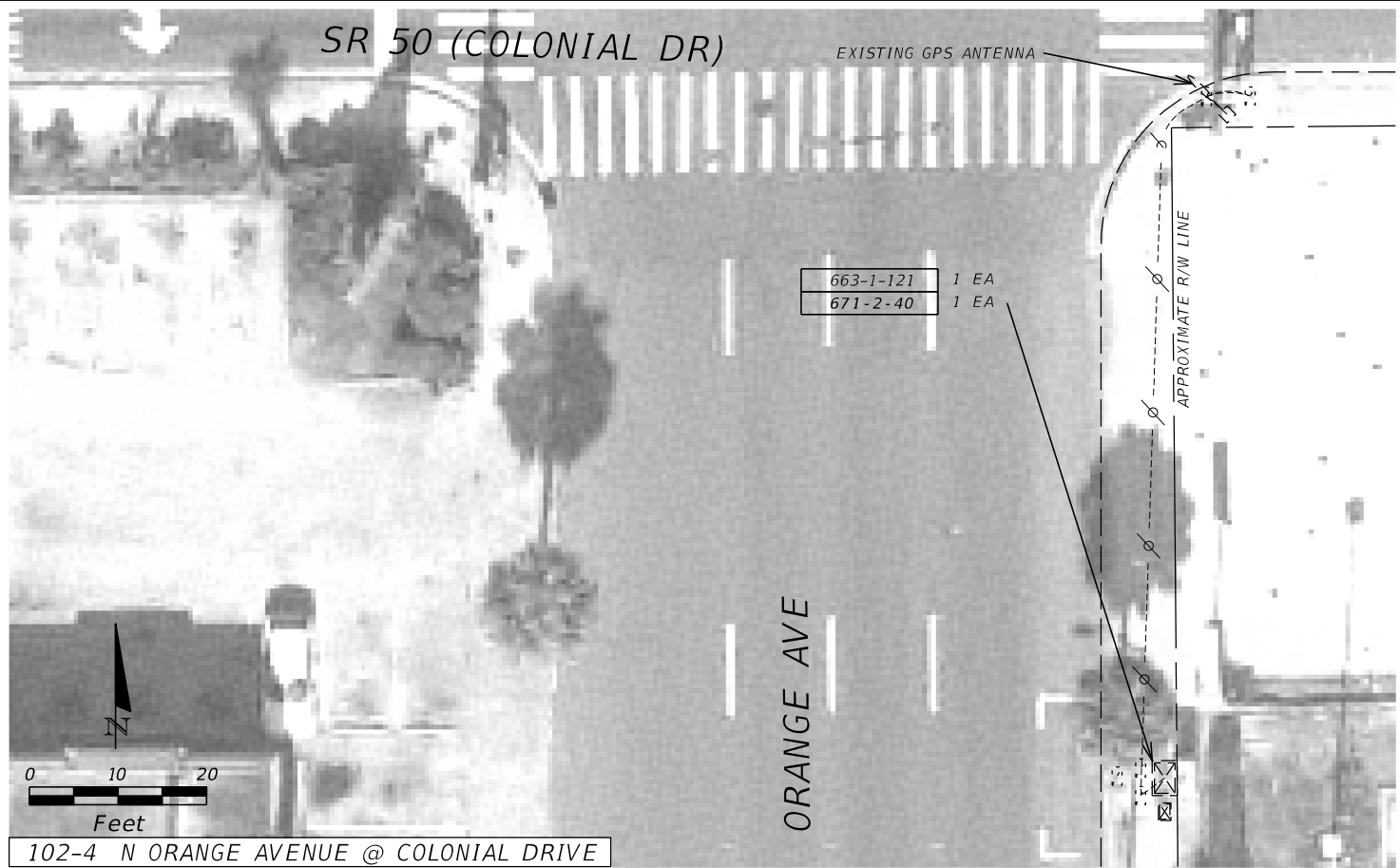
PLAN SHEET

SHEET NO.
IT-42

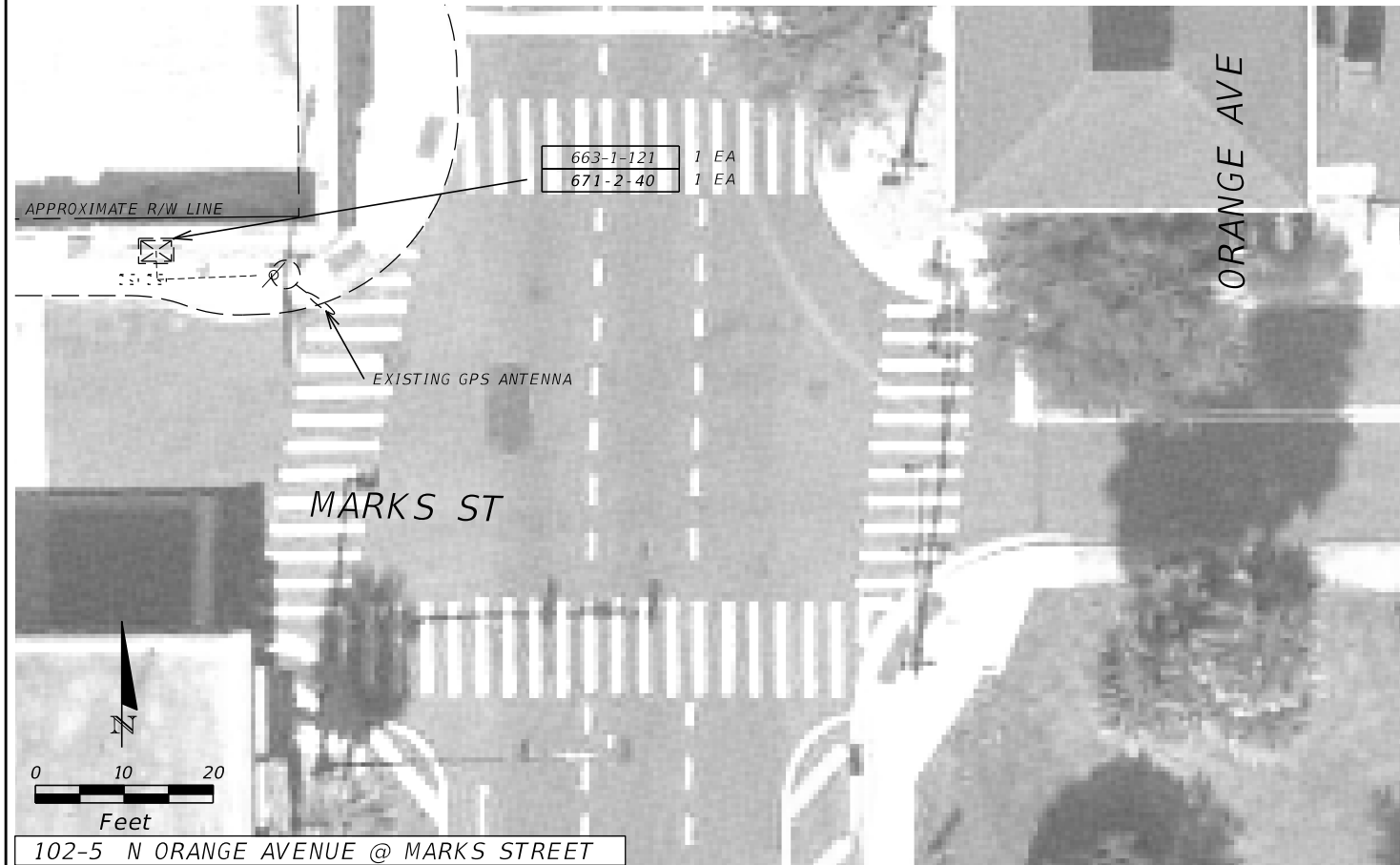
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



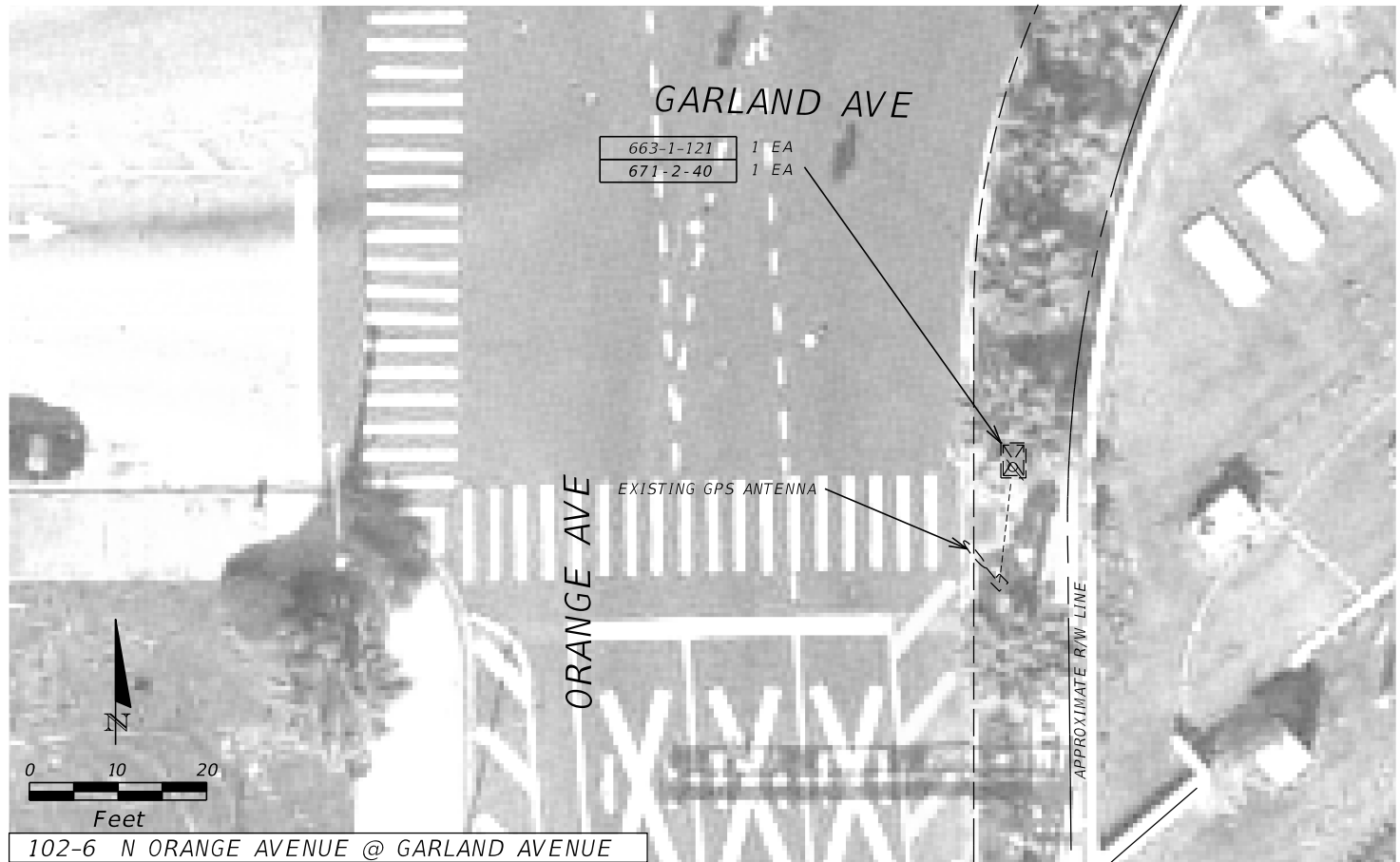
102-3 N ORANGE AVENUE @ CONCORD STREET



102-4 N ORANGE AVENUE @ COLONIAL DRIVE



102-5 N ORANGE AVENUE @ MARKS STREET



102-6 N ORANGE AVENUE @ GARLAND AVENUE

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KITTELSON & ASSOCIATES, INC.
 TSZ SHING TSOI, P.E. # 75055
 110 E BROWARD BLVD, SUITE 2410
 FORT LAUDERDALE, FLORIDA 33301
 TEL: (954) 828-1730
 FAX: (954) 828-1787
 CERTIFICATION OF AUTHORIZATION 7524

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
VARIES	ORANGE SEMINOLE	435446-1-52-01

PLAN SHEET

SHEET NO.
IT-43

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KITTELSON & ASSOCIATES, INC.
 TSZ SHING TSOI, P.E. # 75055
 110 E BROWARD BLVD, SUITE 2410
 FORT LAUDERDALE, FLORIDA 33301
 TEL: (954) 828-1730
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 CERTIFICATION OF AUTHORIZATION 7524

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
VARIES	ORANGE SEMINOLE	435446-1-52-01

PLAN SHEET

SHEET NO.
IT-44

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



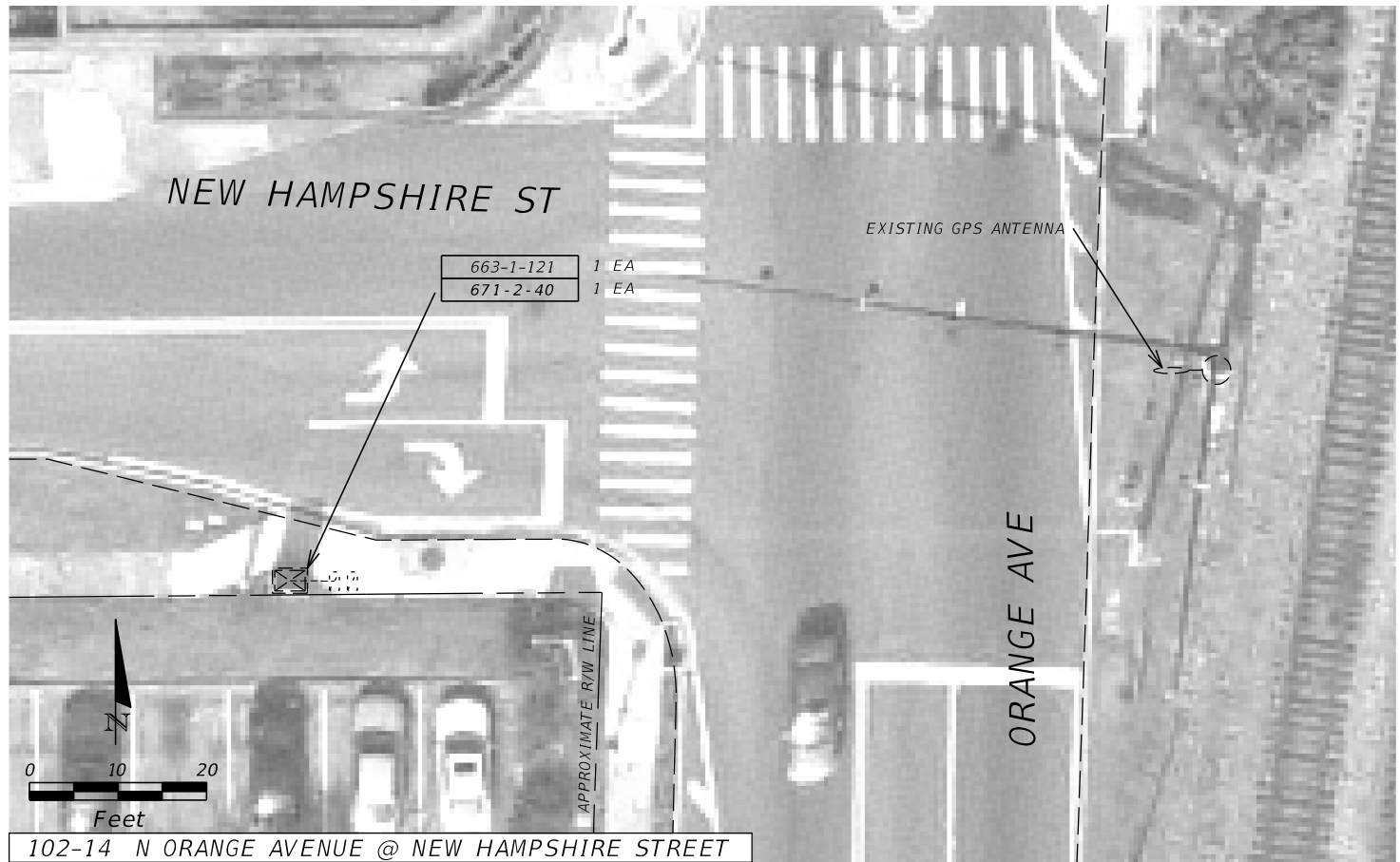
102-11 MAGNOLIA AVENUE @ MARKS STREET



102-12 N ORANGE AVENUE @ HIGHLAND AVENUE



102-13 N ORANGE AVENUE @ VIRGINIA DRIVE



102-14 N ORANGE AVENUE @ NEW HAMPSHIRE STREET

NOTES:
CITY OF ORLANDO
PROPERTY

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

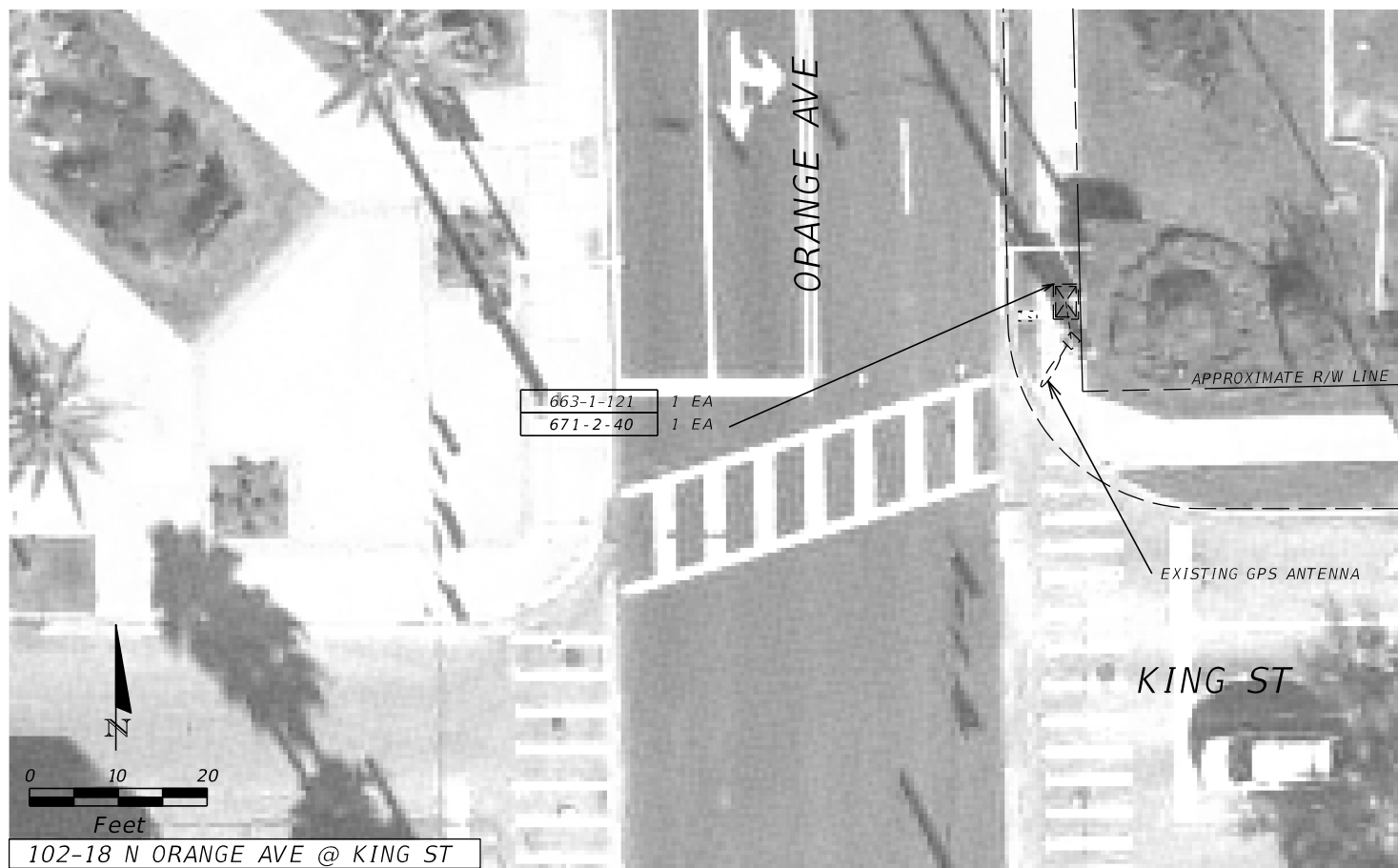
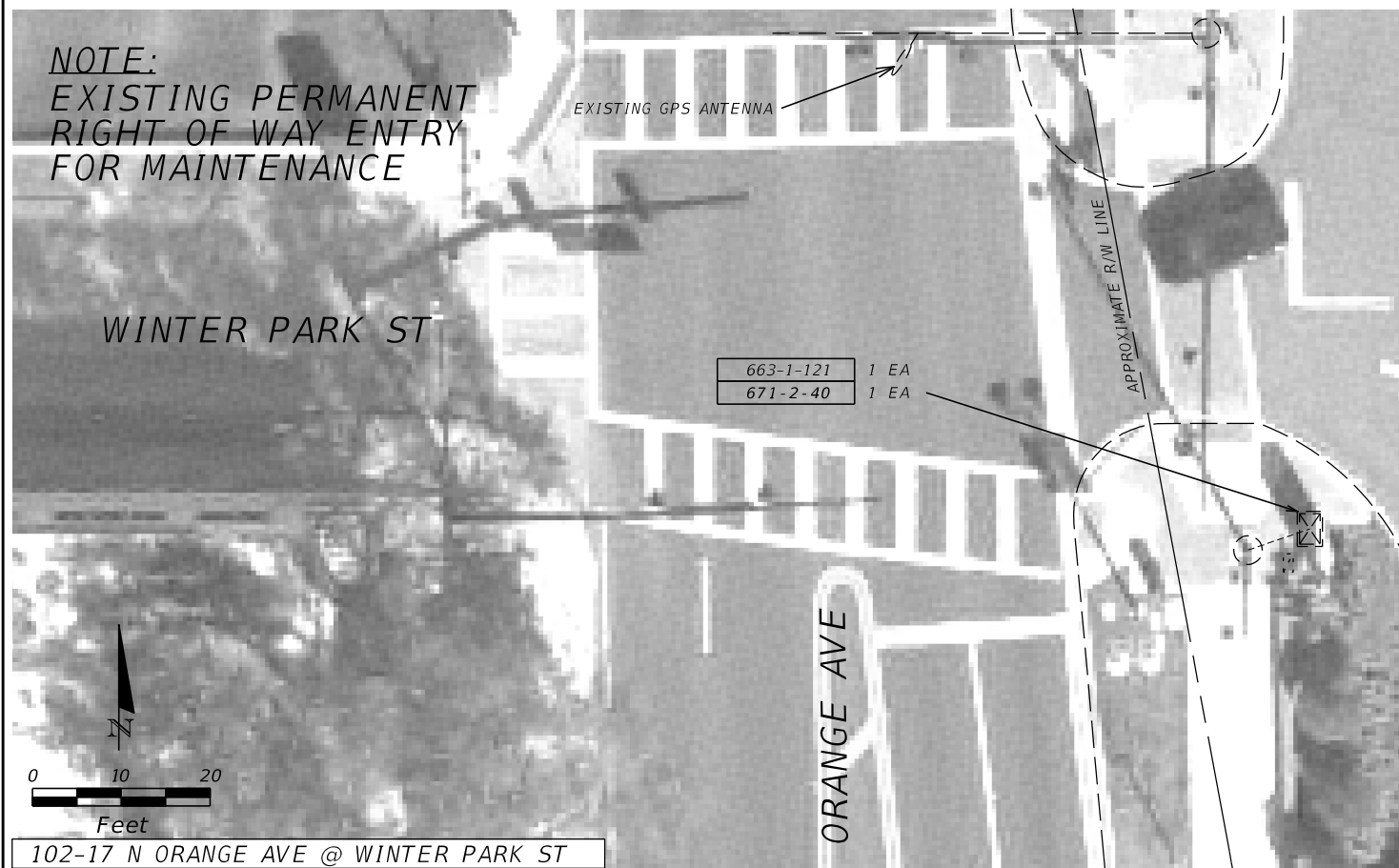
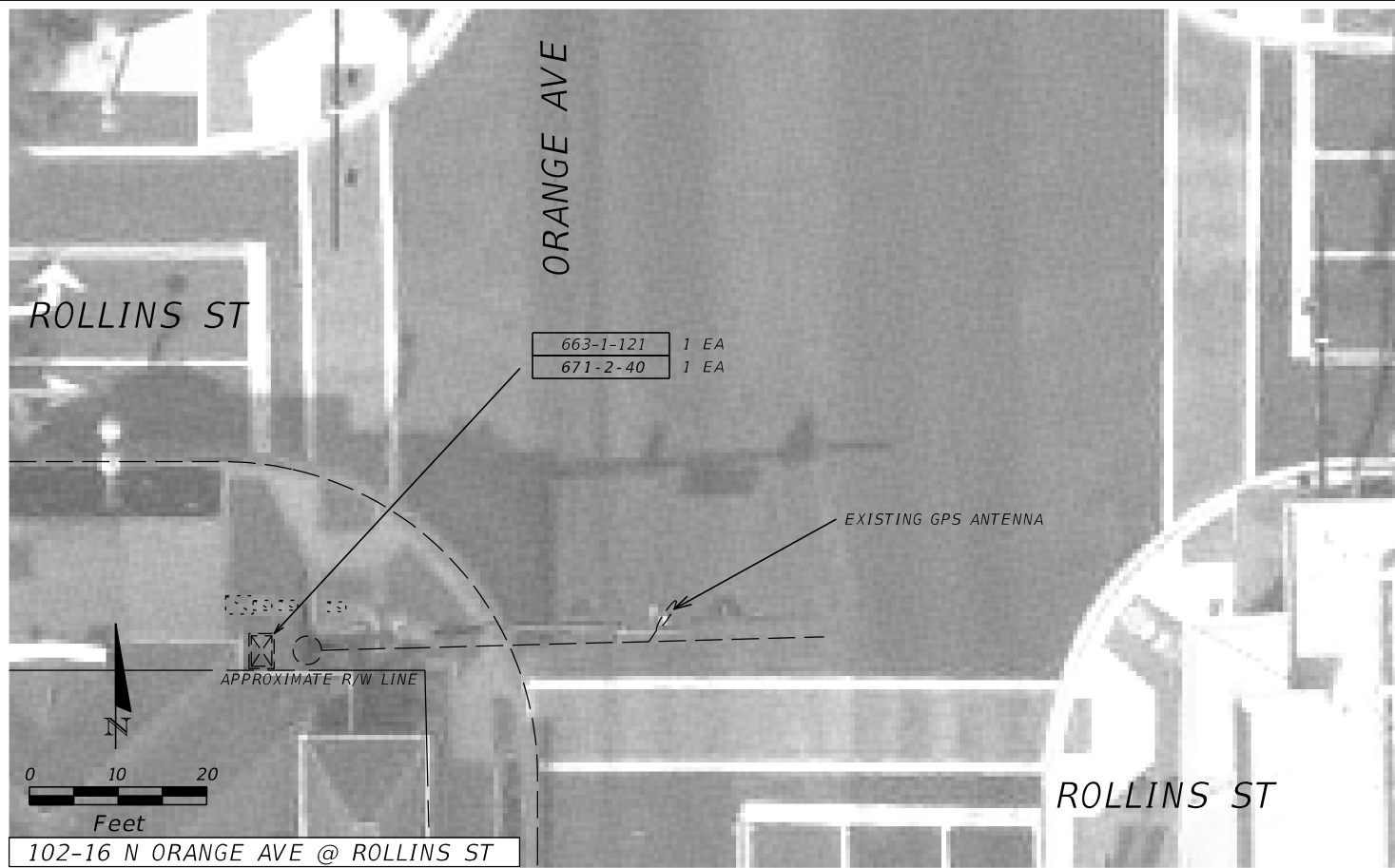
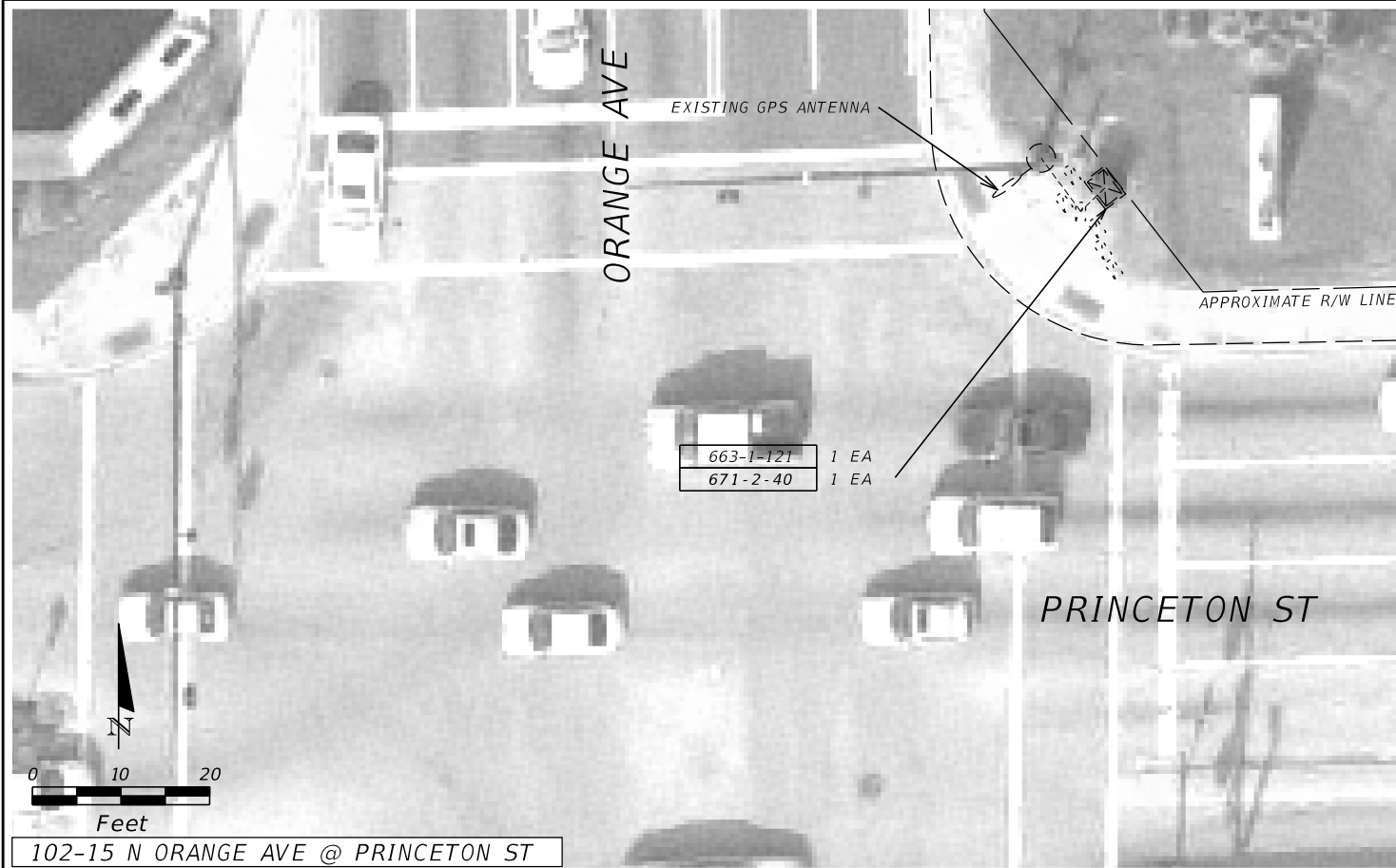
KITTELSON & ASSOCIATES, INC.
TSZ SHING TSOI, P.E. # 75055
110 E BROWARD BLVD, SUITE 2410
FORT LAUDERDALE, FLORIDA 33301
TEL: (954) 828-1730
FAX: (954) 828-1787
CERTIFICATION OF AUTHORIZATION 7524

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
VARIES	ORANGE SEMINOLE	435446-1-52-01

PLAN SHEET

SHEET NO.
IT-45

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KITTELSON & ASSOCIATES, INC.
 TSZ SHING TSOI, P.E. # 75055
 110 E BROWARD BLVD, SUITE 2410
 FORT LAUDERDALE, FLORIDA 33301
 TEL: (954) 828-1730
 FAX: (954) 828-1787
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
VARIES	ORANGE SEMINOLE	435446-1-52-01

PLAN SHEET

SHEET NO.
IT-46

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



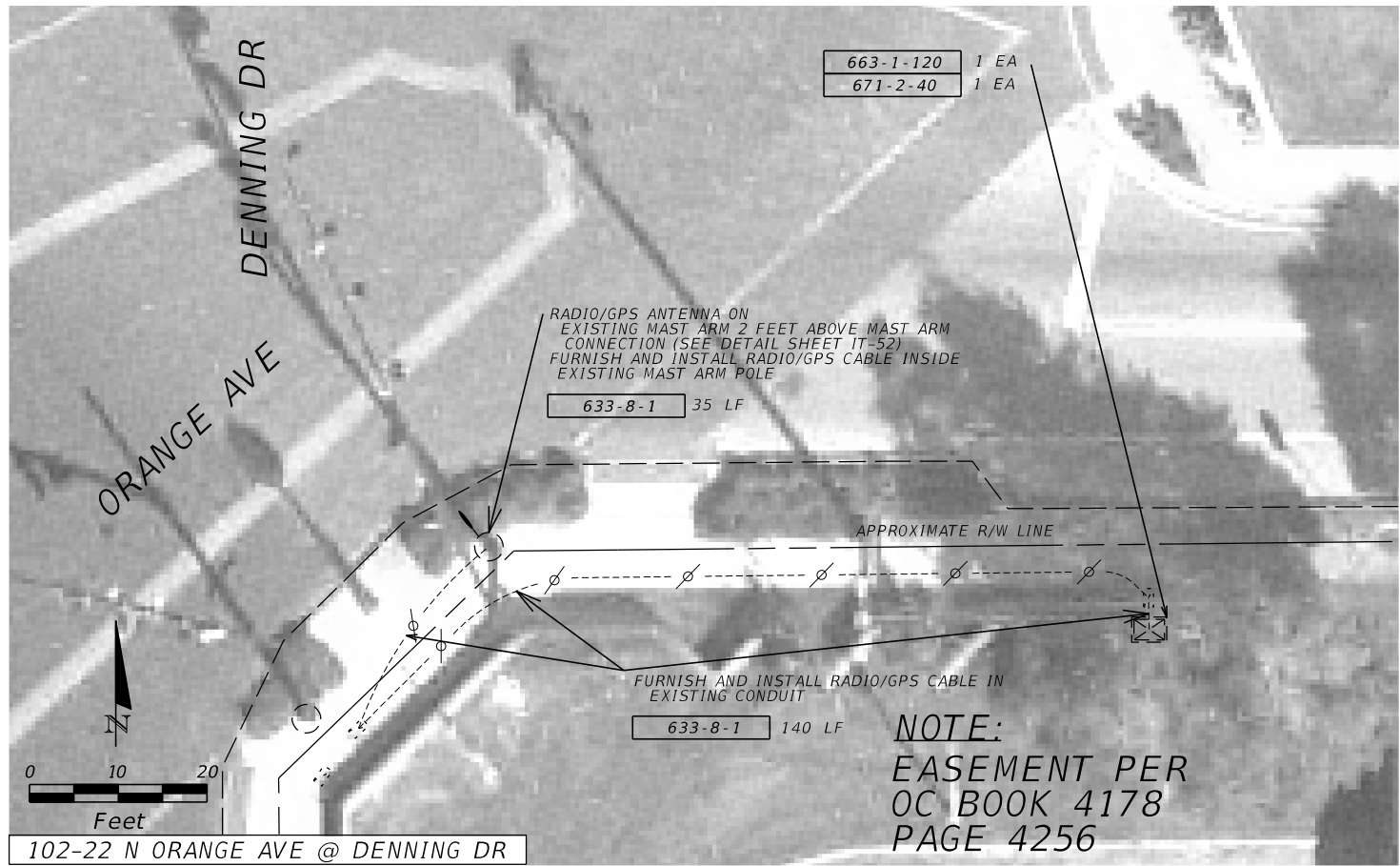
102-19 N ORANGE AVE @ CLAY ST



102-20 N ORANGE AVE @ US 17/92



102-21 N ORANGE AVE @ CYPRESS AVE



102-22 N ORANGE AVE @ DENNING DR

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

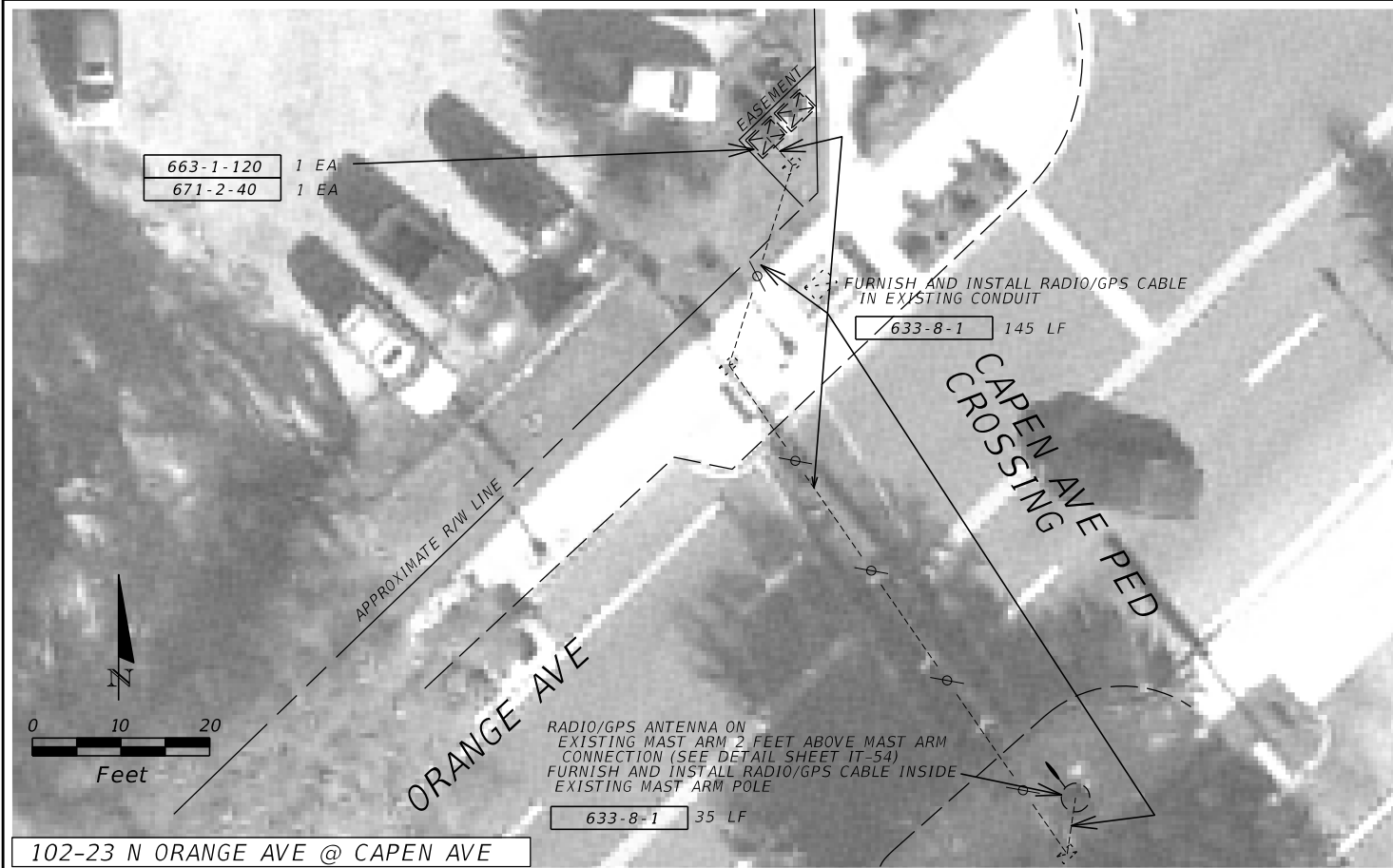
KITTELSON & ASSOCIATES, INC.
 TSZ SHING TSOI, P.E. # 75055
 110 E BROWARD BLVD, SUITE 2410
 FORT LAUDERDALE, FLORIDA 33301
 TEL: (954) 828-1730
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 CERTIFICATION OF AUTHORIZATION 7524

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
VARIES	ORANGE SEMINOLE	435446-1-52-01

PLAN SHEET

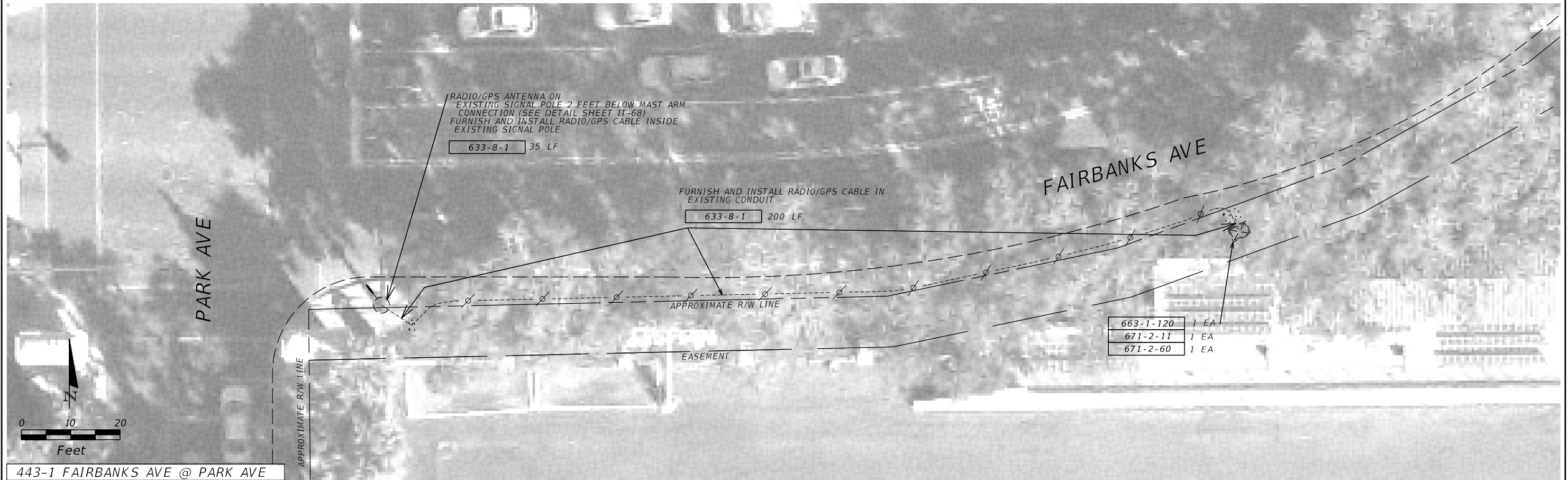
SHEET NO.
IT-47

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102-23 N ORANGE AVE @ CAPEN AVE

THIS DETAIL INTENTIONALLY LEFT BLANK



443-1 FAIRBANKS AVE @ PARK AVE

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KITTELSON & ASSOCIATES, INC.
 TSZ SHING TSOI, P.E. # 75055
 110 E BROWARD BLVD, SUITE 2410
 FORT LAUDERDALE, FLORIDA 33301
 TEL: (954) 828-1730
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
VARIES	ORANGE SEMINOLE	435446-1-52-01

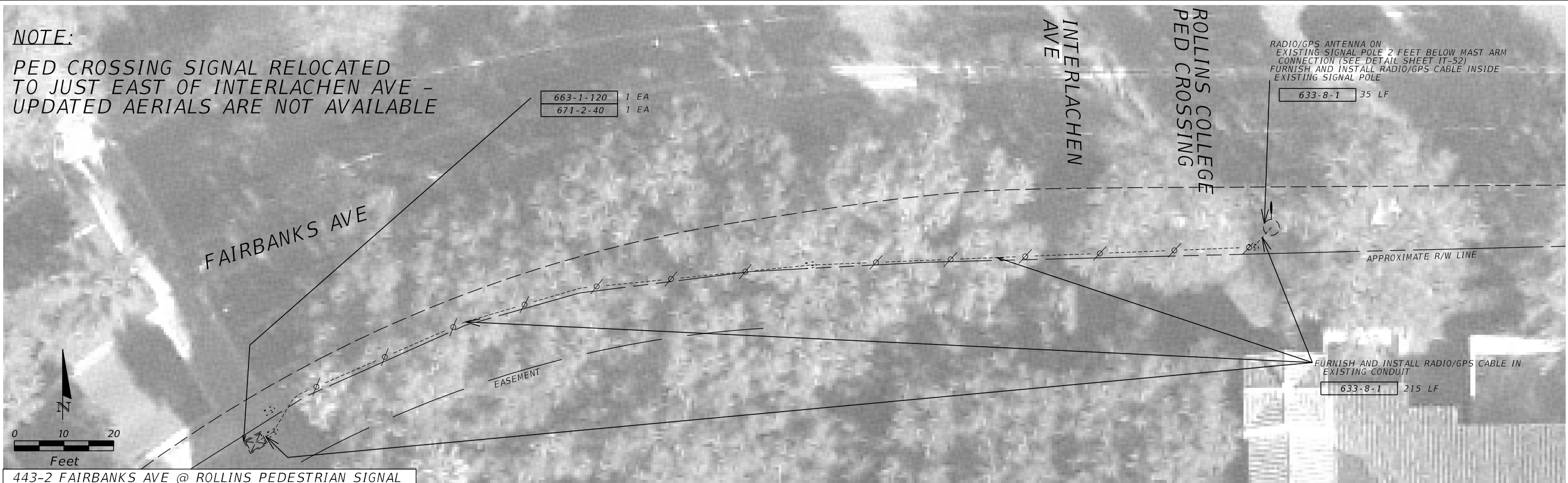
PLAN SHEET

SHEET NO.
IT-48

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

NOTE:

PED CROSSING SIGNAL RELOCATED TO JUST EAST OF INTERLACHEN AVE - UPDATED AERIALS ARE NOT AVAILABLE



443-2 FAIRBANKS AVE @ ROLLINS PEDESTRIAN SIGNAL



443-3 FAIRBANKS AVE @ CHASE AVE/OLLIE AVE



443-4 ALOMA AVE @ PHELPS AVE

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

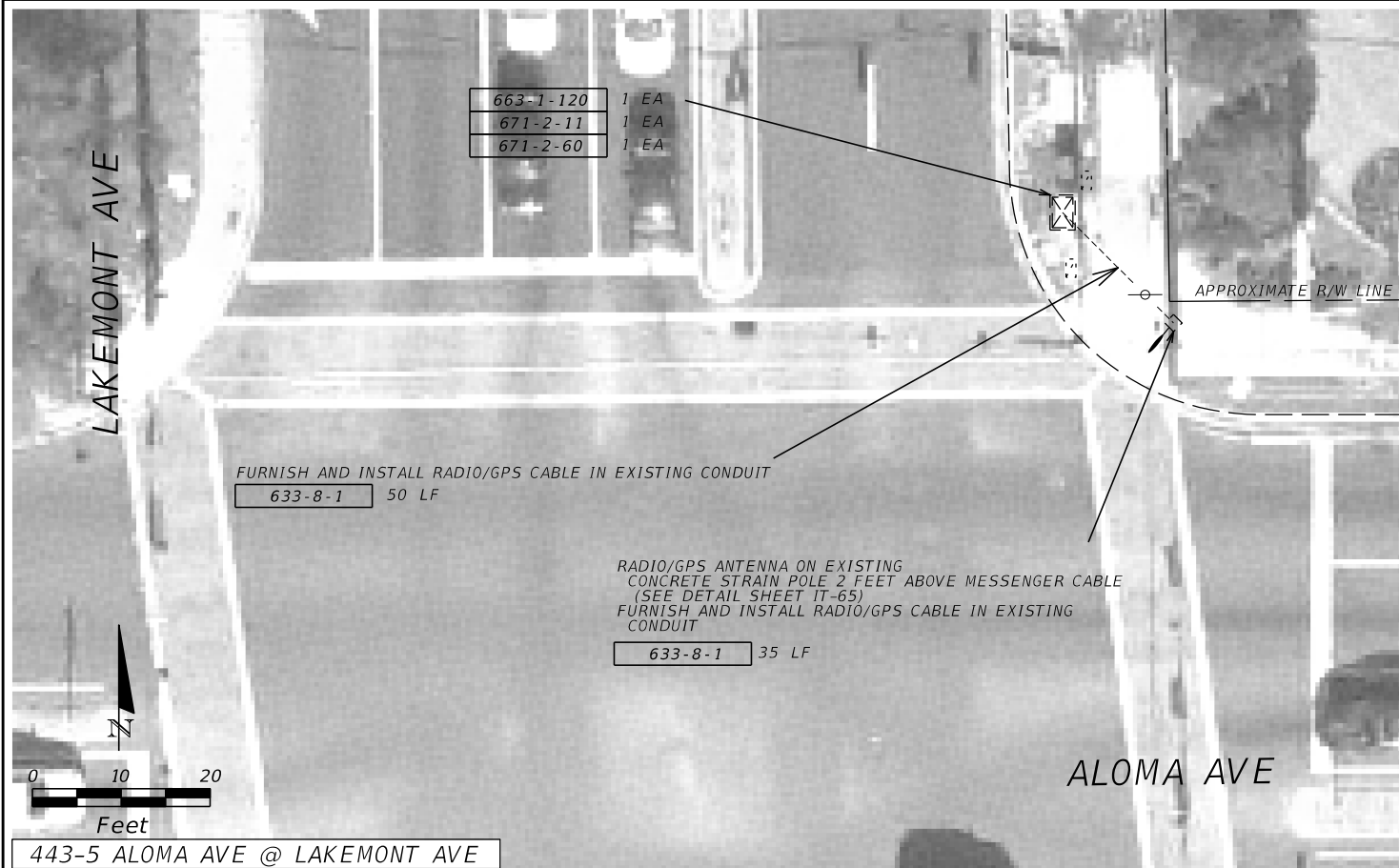
KITTELSON & ASSOCIATES, INC.
 TSZ SHING TSOI, P.E. # 75055
 110 E BROWARD BLVD, SUITE 2410
 FORT LAUDERDALE, FLORIDA 33301
 TEL: (954) 828-1730
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
VARIES	ORANGE SEMINOLE	435446-1-52-01

PLAN SHEET

SHEET NO.
IT-49

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



THIS DETAIL INTENTIONALLY LEFT BLANK

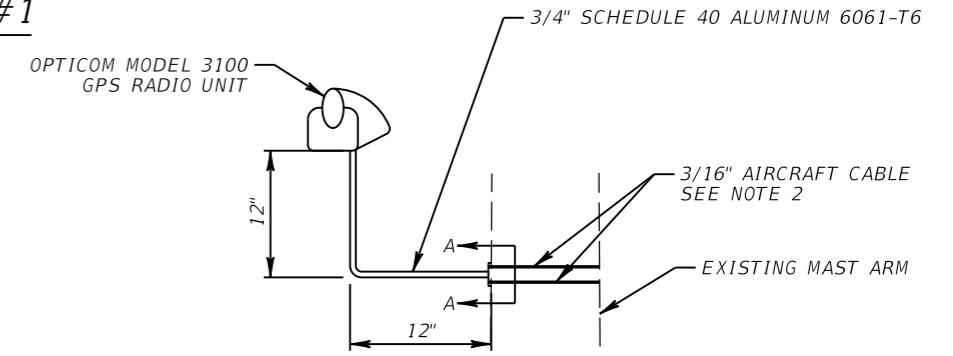
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THIS DETAIL INTENTIONALLY LEFT BLANK

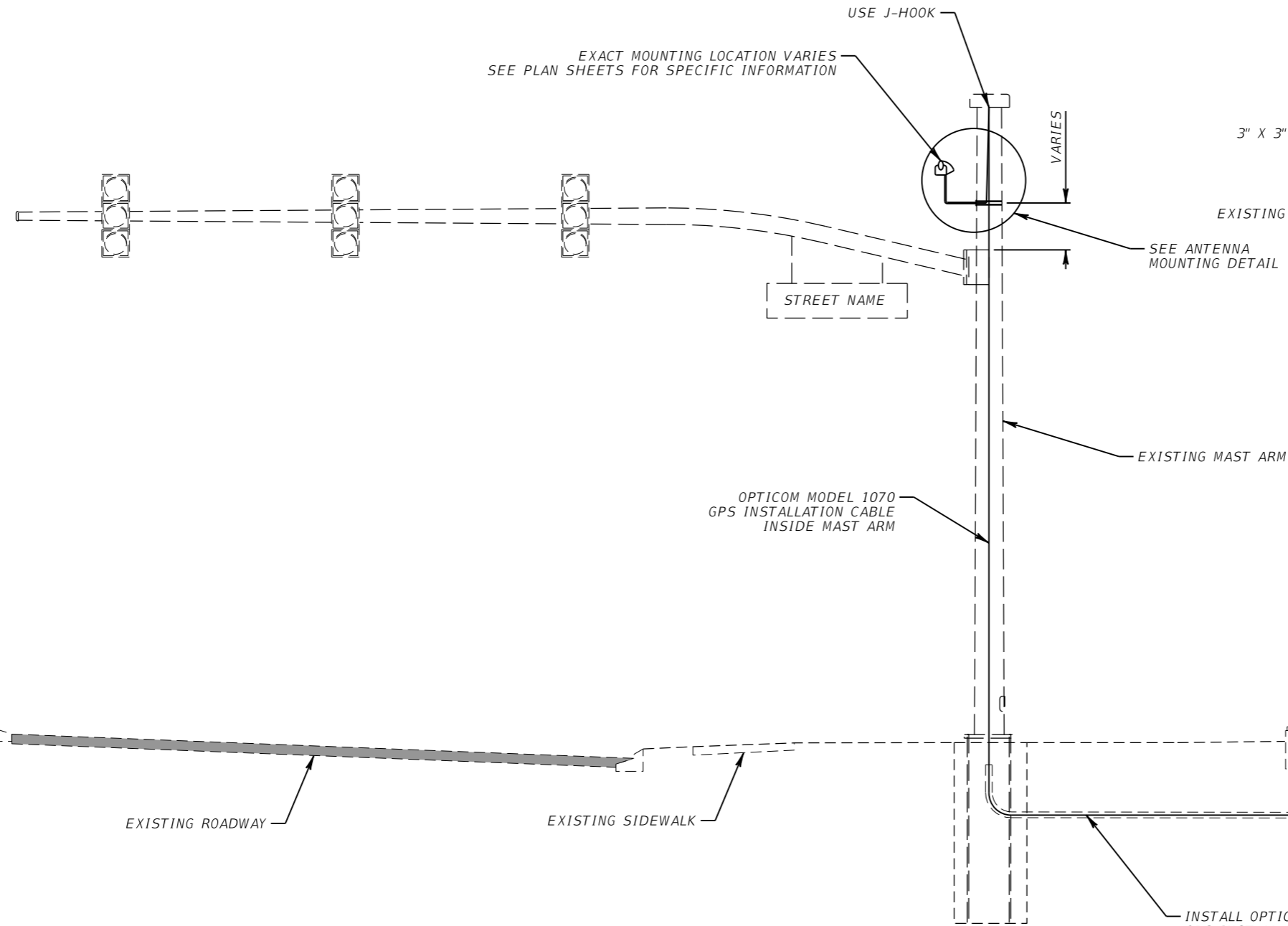
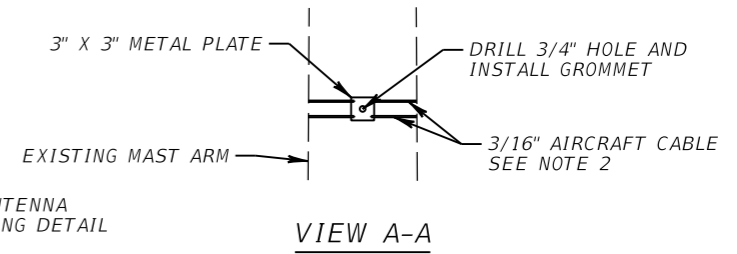
REVISIONS				KITTELSON & ASSOCIATES, INC. TSZ SHING TSOI, P.E. # 75055 110 E BROWARD BLVD, SUITE 2410 FORT LAUDERDALE, FLORIDA 33301 TEL: (954) 828-1730 FAX: (954) 828-1787 CERTIFICATION OF AUTHORIZATION 7524	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. PLAN SHEET IT-50
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					VARIES	ORANGE SEMINOLE	435446-1-52-01	

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MAST ARM MOUNTED GPS USING EXISTING CONDUIT #1



ANTENNA MOUNTING DETAIL



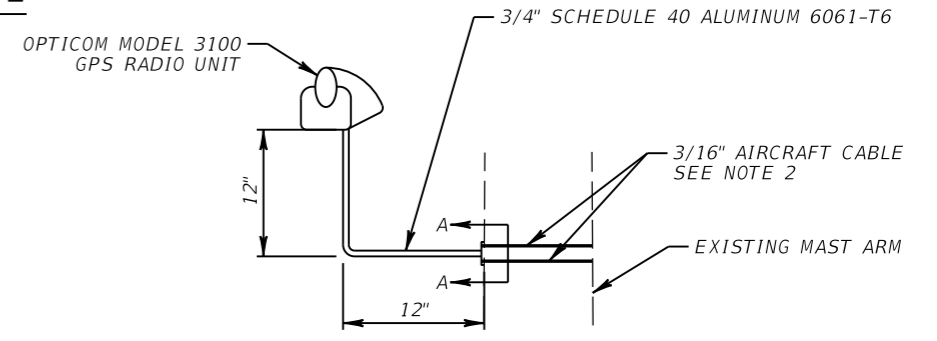
NOTES:

1. ANTENNA SHALL TYPICALLY BE ORIENTED TOWARDS THE INTERSECTION WITH NO OBSTRUCTIONS ABOVE SO IT HAS A CLEAR VIEW OF THE SKY.
2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE BRACKET AND BRACKET MOUNT ASSEMBLY TO THE POLE FOR REVIEW AND APPROVAL BY THE ENGINEER.

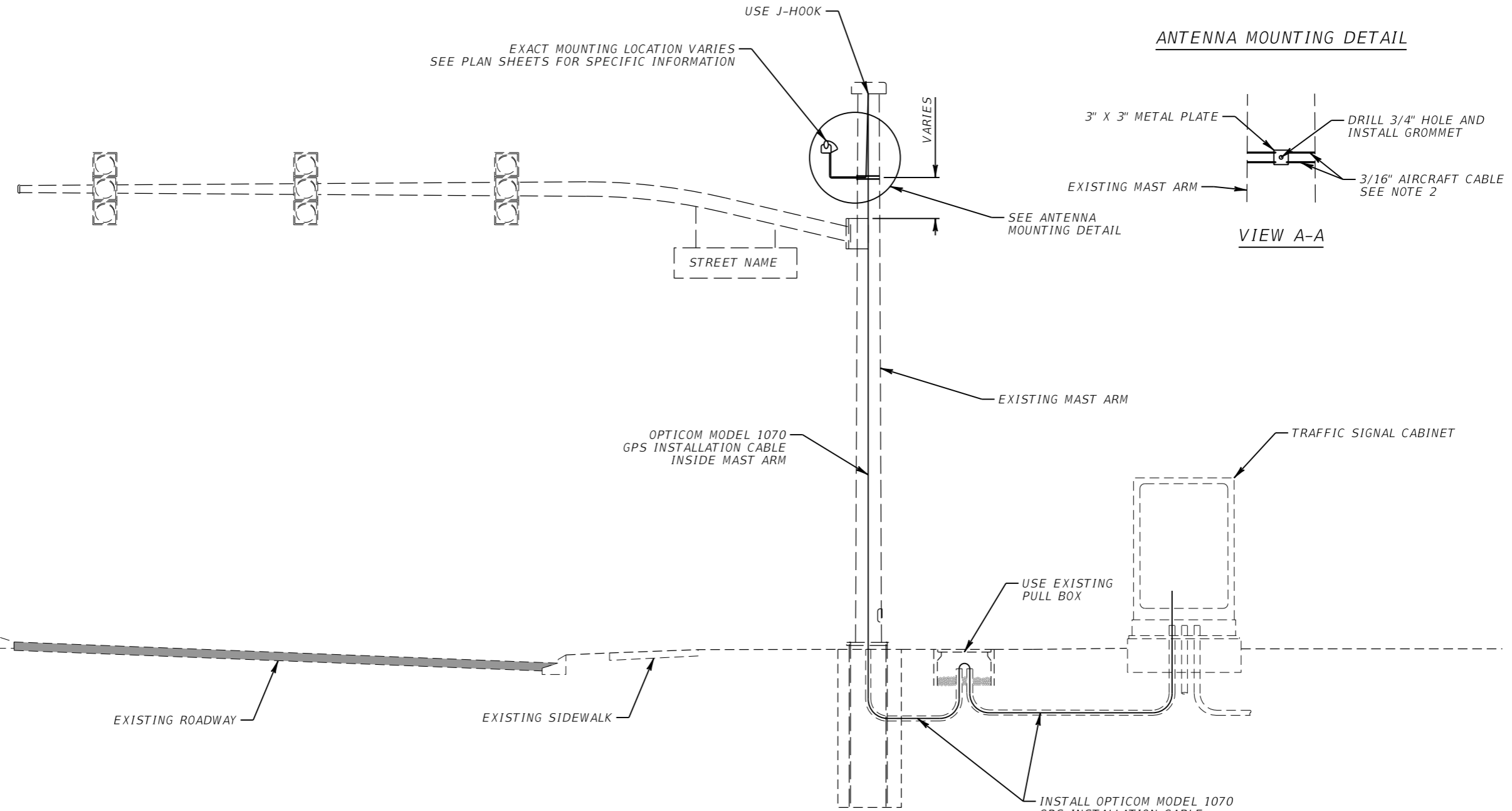
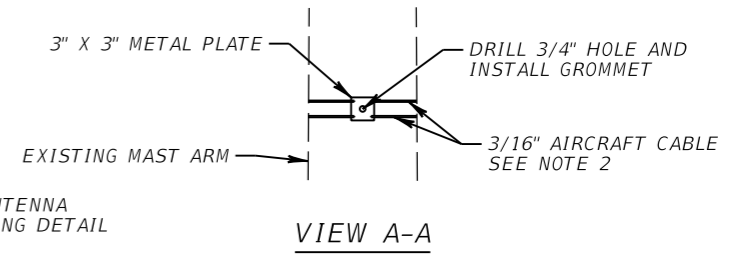
REVISIONS				METRIC ENGINEERING, INC. MICHAEL L. CORNEJO, P.E. # 47734 615 CRESCENT EXECUTIVE CT SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION 2294	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ANTENNA MOUNTING DETAIL	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						VARIES	ORANGE SEMINOLE		435446-1-52-01

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

MAST ARM MOUNTED GPS USING EXISTING CONDUIT #2



ANTENNA MOUNTING DETAIL

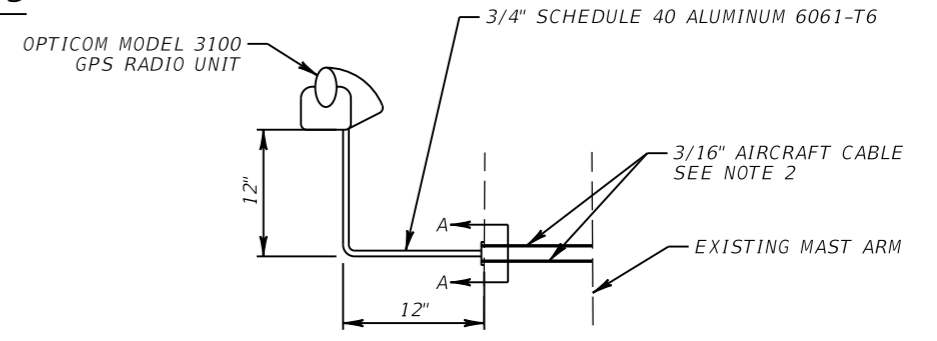


- NOTES:
1. ANTENNA SHALL TYPICALLY BE ORIENTED TOWARDS THE INTERSECTION WITH NO OBSTRUCTIONS ABOVE SO IT HAS A CLEAR VIEW OF THE SKY.
 2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE BRACKET AND BRACKET MOUNT ASSEMBLY TO THE POLE FOR REVIEW AND APPROVAL BY THE ENGINEER.

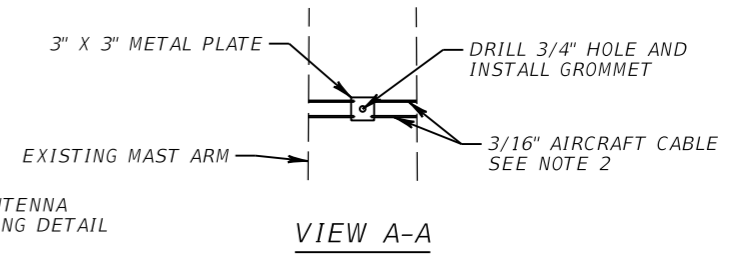
REVISIONS				METRIC ENGINEERING, INC. MICHAEL L. CORNEJO, P.E. # 47734 615 CRESCENT EXECUTIVE CT SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION 2294	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. ANTENNA MOUNTING DETAIL IT-52
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					VARIES	ORANGE SEMINOLE	435446-1-52-01	

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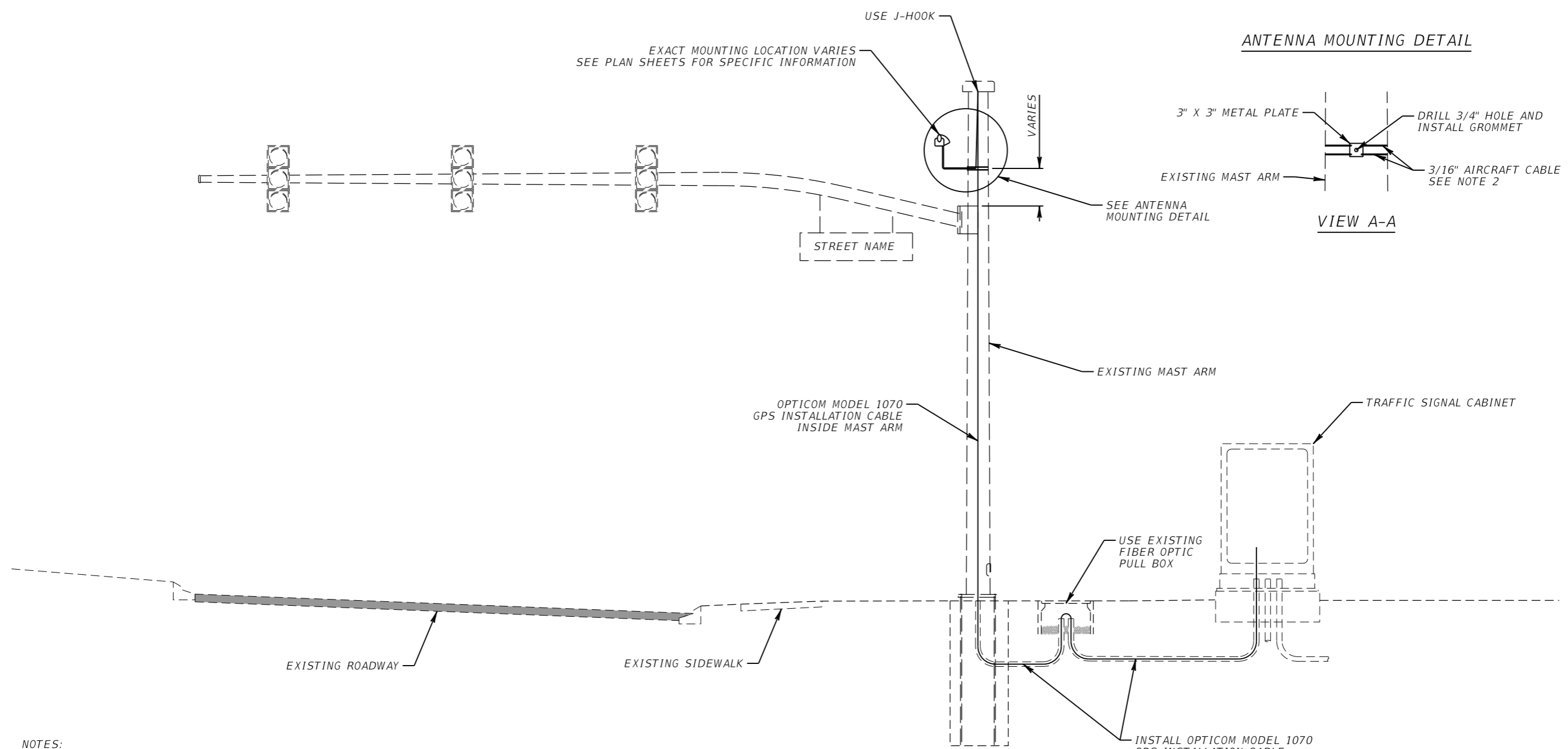
MAST ARM MOUNTED GPS USING EXISTING CONDUIT #3



ANTENNA MOUNTING DETAIL



VIEW A-A



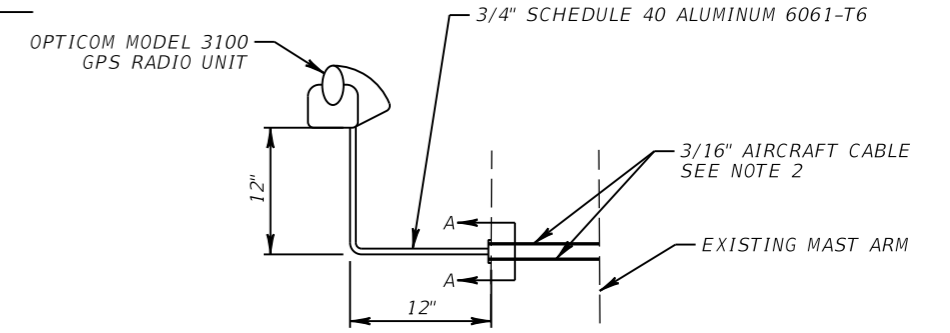
NOTES:

1. ANTENNA SHALL TYPICALLY BE ORIENTED TOWARDS THE INTERSECTION WITH NO OBSTRUCTIONS ABOVE SO IT HAS A CLEAR VIEW OF THE SKY.
2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE BRACKET AND BRACKET MOUNT ASSEMBLY TO THE POLE FOR REVIEW AND APPROVAL BY THE ENGINEER.

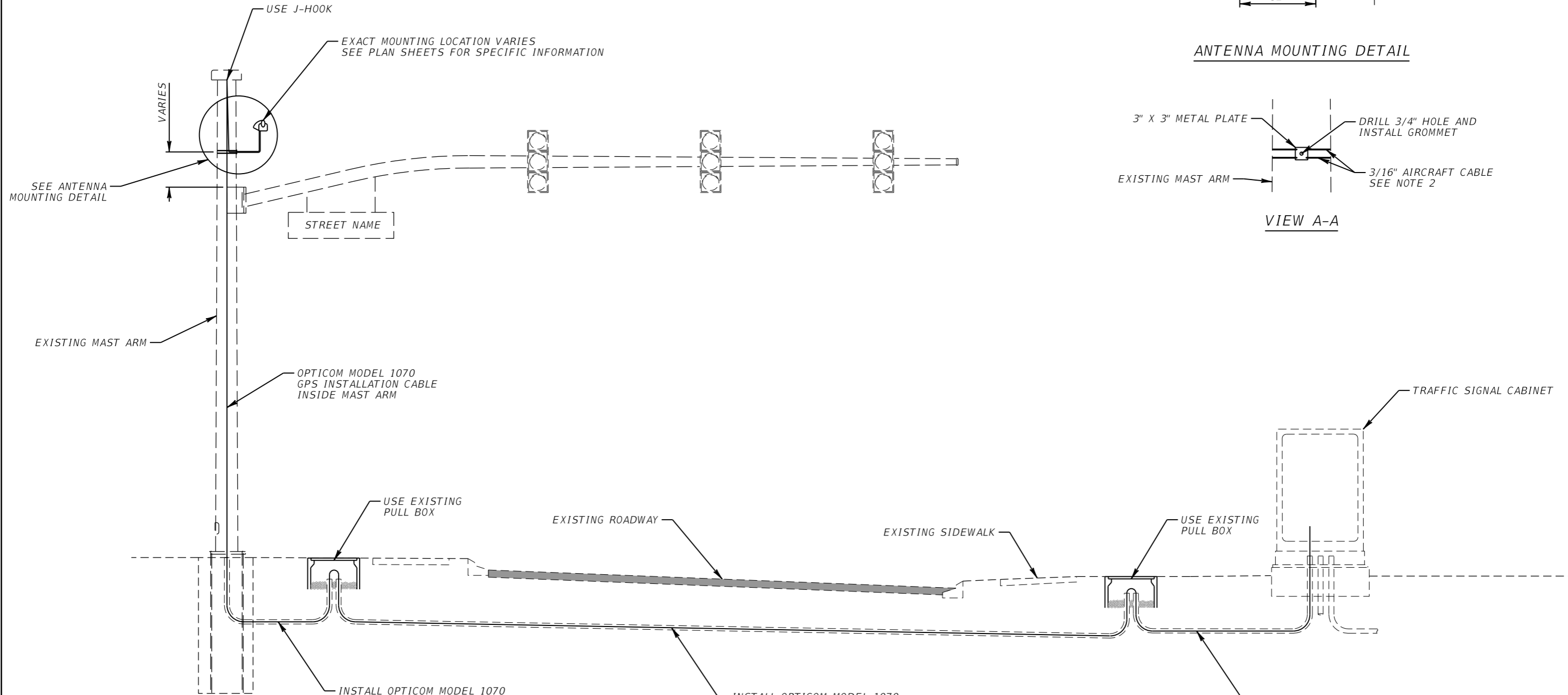
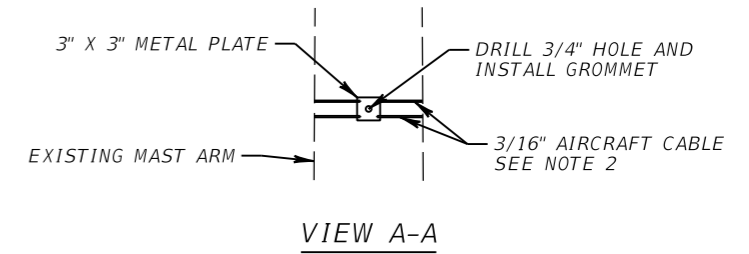
REVISIONS				METRIC ENGINEERING, INC. MICHAEL L. CORNEJO, P.E. # 47734 615 CRESCENT EXECUTIVE CT SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION 2294	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ANTENNA MOUNTING DETAIL	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		IT-53
					VARIES	ORANGE SEMINOLE	435446-1-52-01		

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MAST ARM MOUNTED GPS USING EXISTING CONDUIT #4



ANTENNA MOUNTING DETAIL



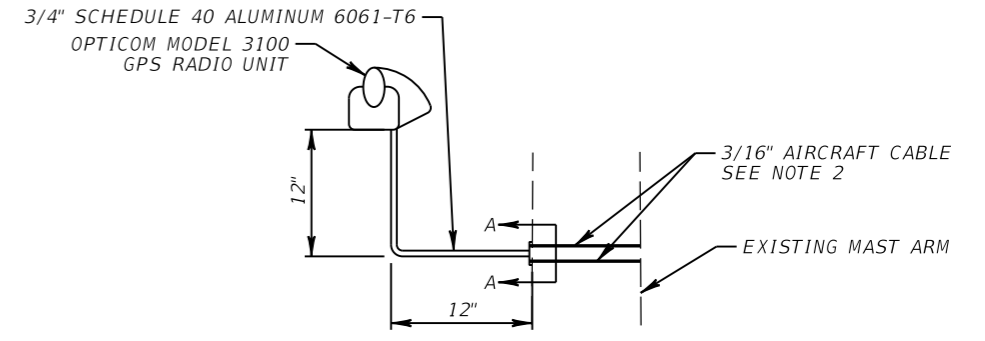
NOTES:

1. ANTENNA SHALL TYPICALLY BE ORIENTED TOWARDS THE INTERSECTION WITH NO OBSTRUCTIONS ABOVE SO IT HAS A CLEAR VIEW OF THE SKY.
2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE BRACKET AND BRACKET MOUNT ASSEMBLY TO THE POLE FOR REVIEW AND APPROVAL BY THE ENGINEER.

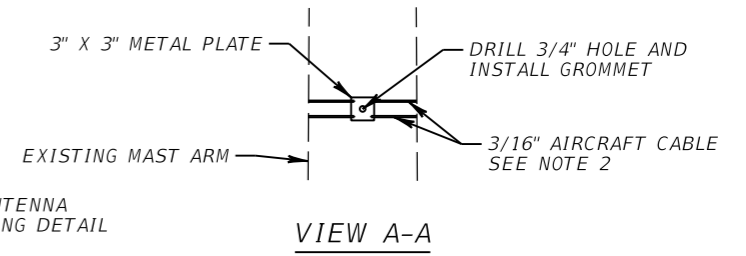
REVISIONS				METRIC ENGINEERING, INC. MICHAEL L. CORNEJO, P.E. # 47734 615 CRESCENT EXECUTIVE CT SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION 2294	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ANTENNA MOUNTING DETAIL SHEET NO. IT-54
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					VARIES	ORANGE SEMINOLE	435446-1-52-01	

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

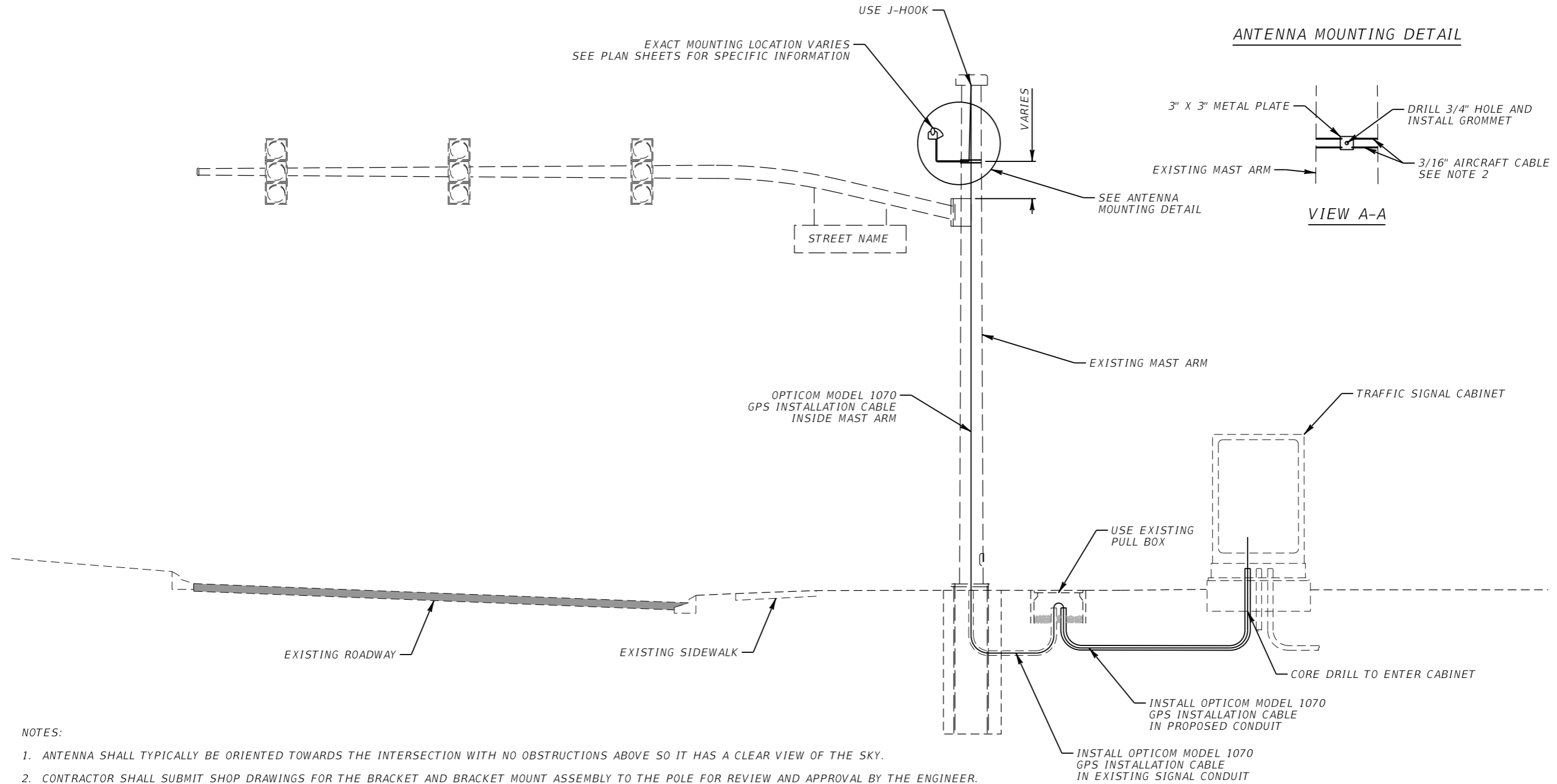
MAST ARM MOUNTED GPS USING NEW CONDUIT



ANTENNA MOUNTING DETAIL



VIEW A-A



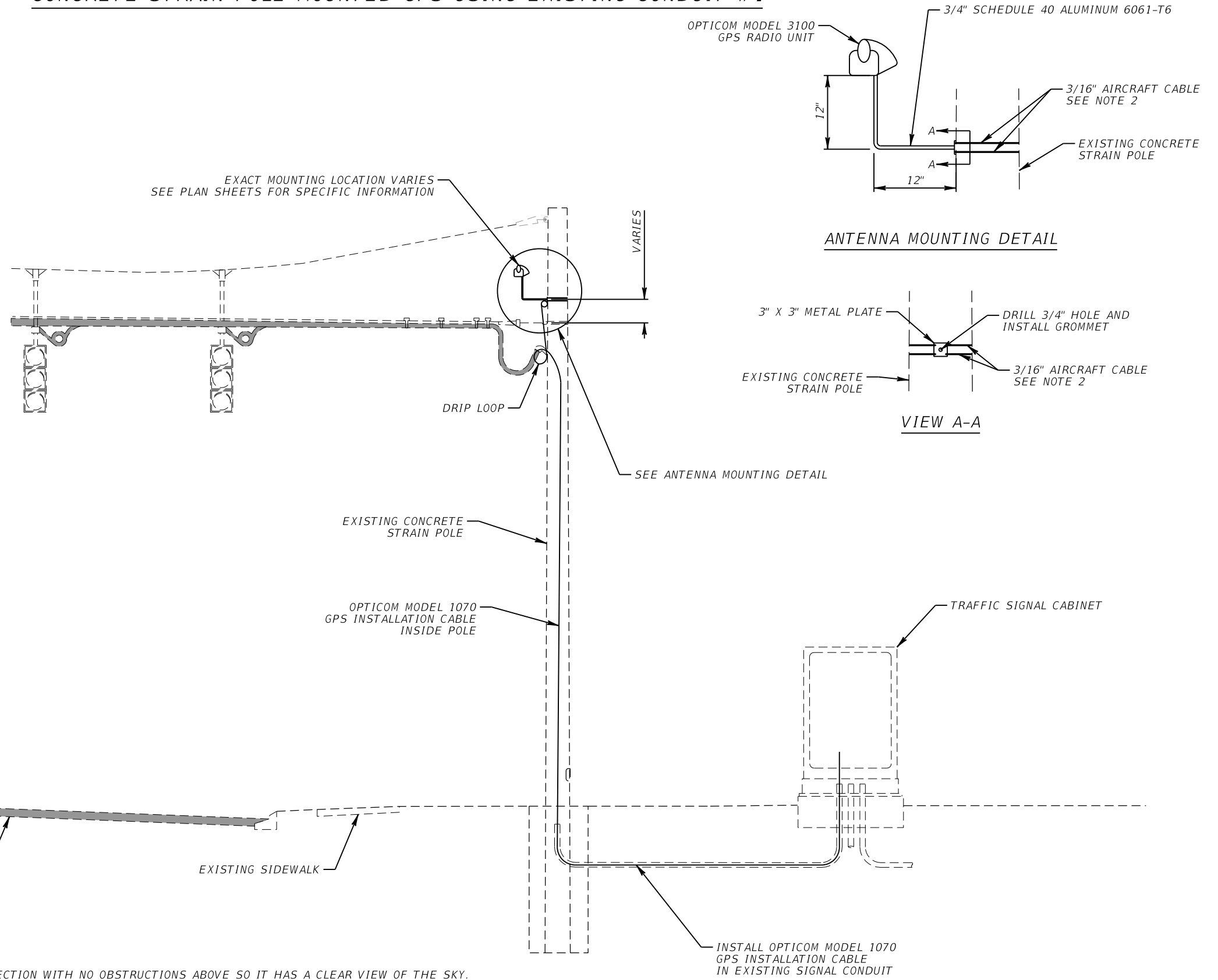
NOTES:

1. ANTENNA SHALL TYPICALLY BE ORIENTED TOWARDS THE INTERSECTION WITH NO OBSTRUCTIONS ABOVE SO IT HAS A CLEAR VIEW OF THE SKY.
2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE BRACKET AND BRACKET MOUNT ASSEMBLY TO THE POLE FOR REVIEW AND APPROVAL BY THE ENGINEER.

REVISIONS				METRIC ENGINEERING, INC. MICHAEL L. CORNEJO, P.E. # 47734 615 CRESCENT EXECUTIVE CT SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION 2294	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. ANTENNA MOUNTING DETAIL IT-55
DATE	DESCRIPTION	DATE	ROAD NO.		COUNTY	FINANCIAL PROJECT ID		
			VARIES		ORANGE SEMINOLE	435446-1-52-01		

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CONCRETE STRAIN POLE MOUNTED GPS USING EXISTING CONDUIT #1



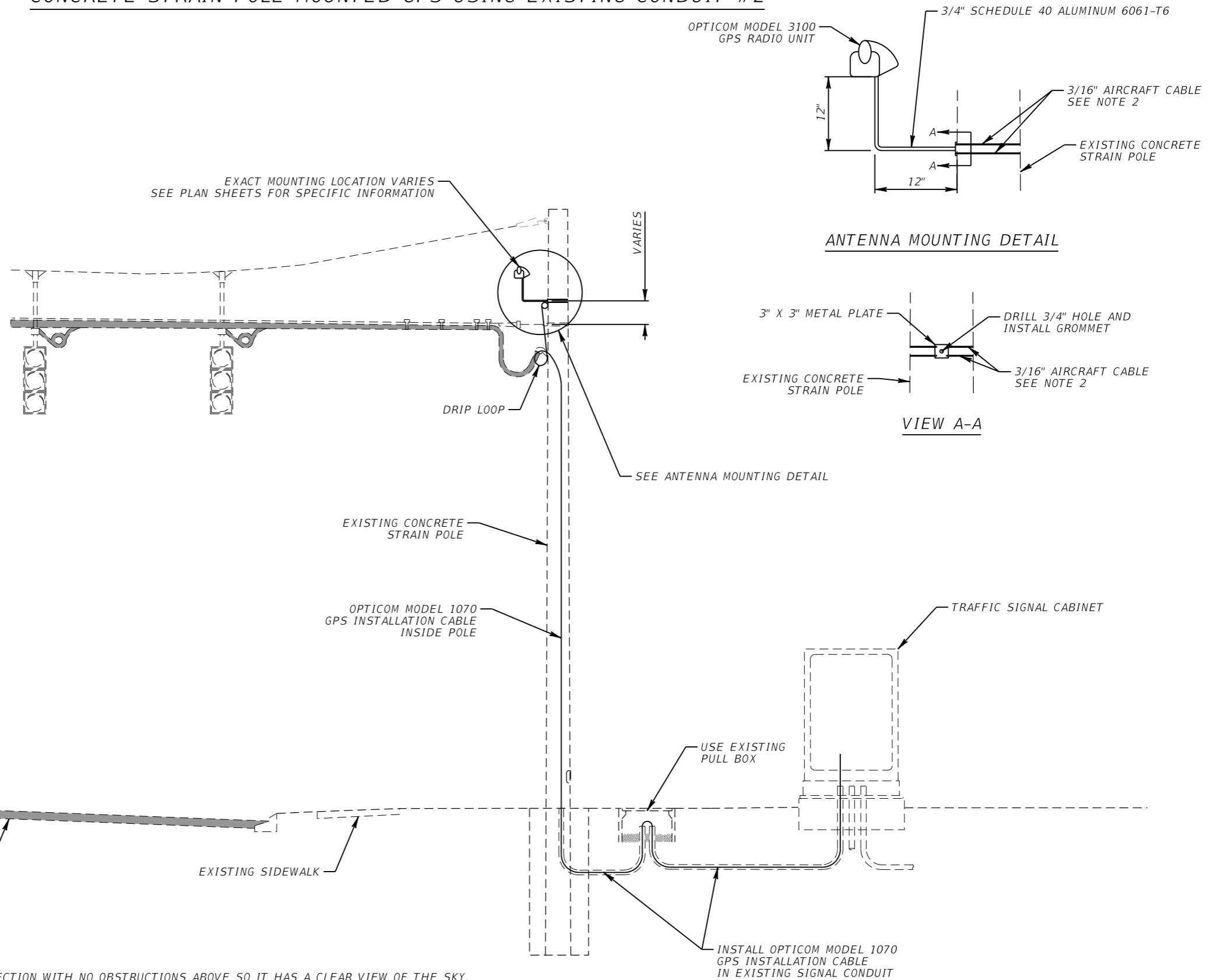
NOTES:

1. ANTENNA SHALL TYPICALLY BE ORIENTED TOWARDS THE INTERSECTION WITH NO OBSTRUCTIONS ABOVE SO IT HAS A CLEAR VIEW OF THE SKY.
2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE BRACKET AND BRACKET MOUNT ASSEMBLY TO THE POLE FOR REVIEW AND APPROVAL BY THE ENGINEER.

REVISIONS				METRIC ENGINEERING, INC. MICHAEL L. CORNEJO, P.E. # 47734 615 CRESCENT EXECUTIVE CT SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION 2294	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ANTENNA MOUNTING DETAIL	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		IT-56
					VARIES	ORANGE SEMINOLE	435446-1-52-01		

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CONCRETE STRAIN POLE MOUNTED GPS USING EXISTING CONDUIT #2



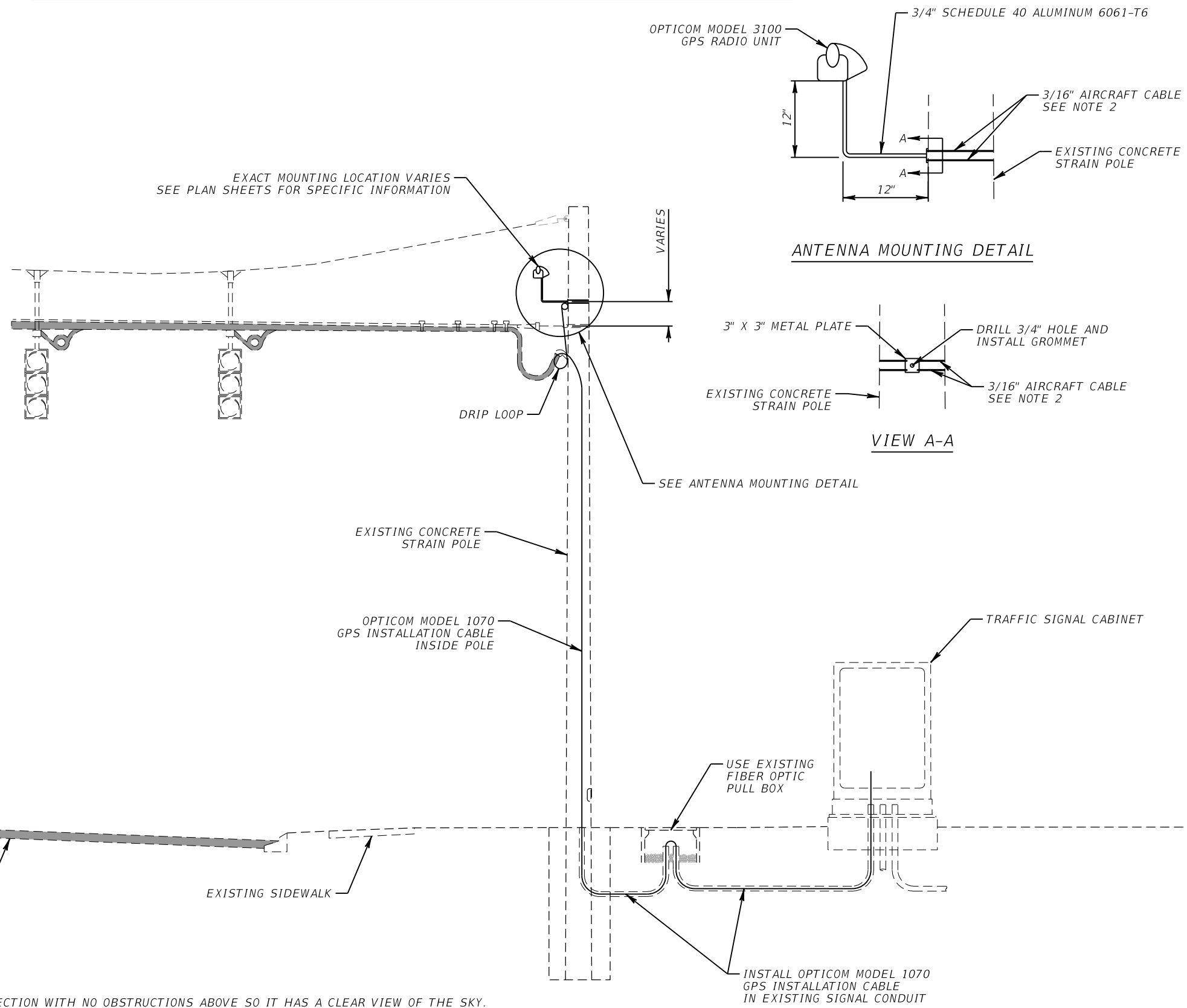
NOTES:

1. ANTENNA SHALL TYPICALLY BE ORIENTED TOWARDS THE INTERSECTION WITH NO OBSTRUCTIONS ABOVE SO IT HAS A CLEAR VIEW OF THE SKY.
2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE BRACKET AND BRACKET MOUNT ASSEMBLY TO THE POLE FOR REVIEW AND APPROVAL BY THE ENGINEER.

REVISIONS				METRIC ENGINEERING, INC. MICHAEL L. CORNEJO, P.E. # 47734 615 CRESCENT EXECUTIVE CT SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION 2294	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. ANTENNA MOUNTING DETAIL IT-57
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					VARIES	ORANGE SEMINOLE	435446-1-52-01	

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CONCRETE STRAIN POLE MOUNTED GPS USING EXISTING CONDUIT #3



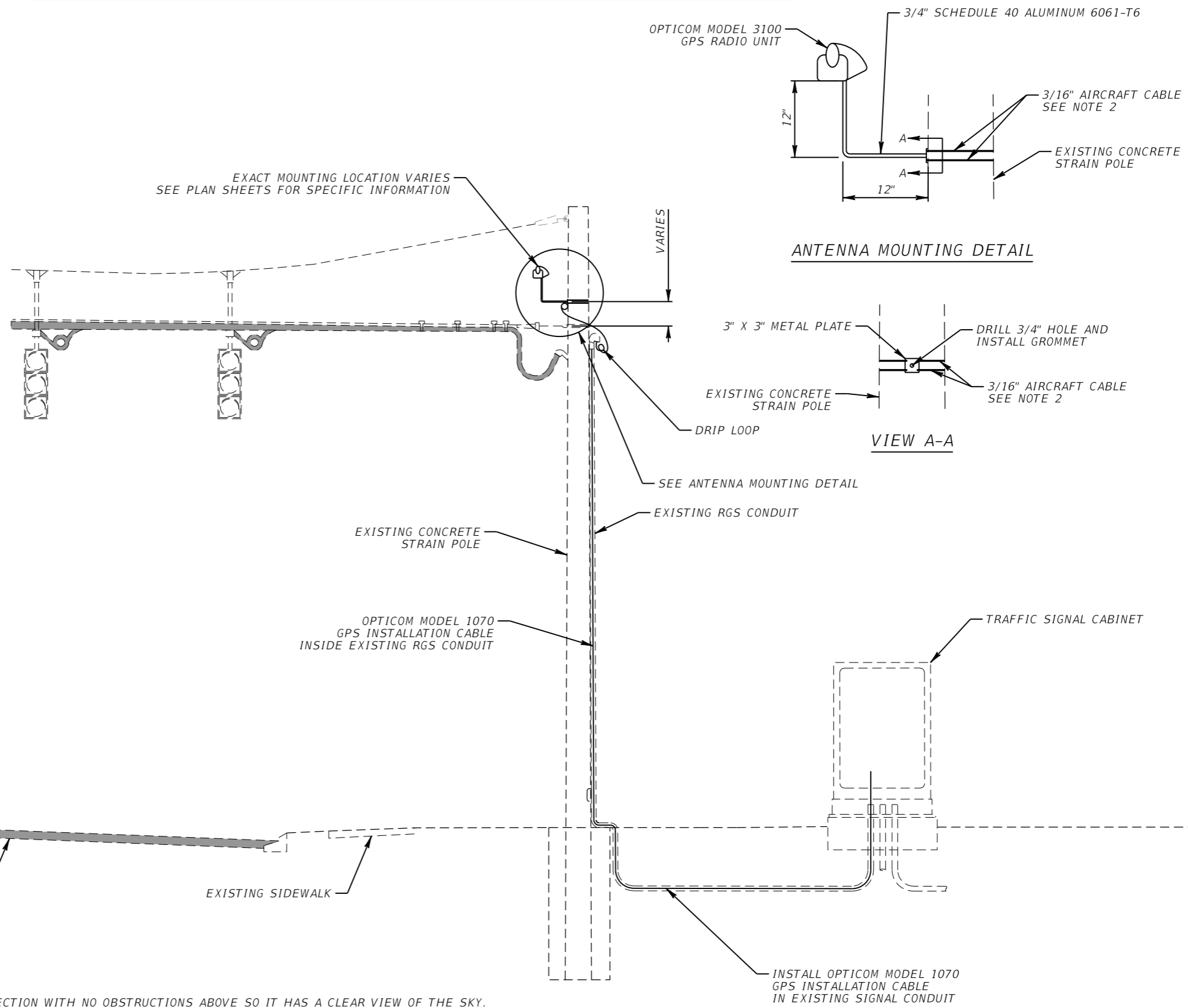
NOTES:

1. ANTENNA SHALL TYPICALLY BE ORIENTED TOWARDS THE INTERSECTION WITH NO OBSTRUCTIONS ABOVE SO IT HAS A CLEAR VIEW OF THE SKY.
2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE BRACKET AND BRACKET MOUNT ASSEMBLY TO THE POLE FOR REVIEW AND APPROVAL BY THE ENGINEER.

REVISIONS				METRIC ENGINEERING, INC. MICHAEL L. CORNEJO, P.E. # 47734 615 CRESCENT EXECUTIVE CT SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION 2294	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ANTENNA MOUNTING DETAIL	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					VARIES	ORANGE SEMINOLE	435446-1-52-01		IT-58

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

CONCRETE STRAIN POLE MOUNTED GPS USING EXISTING CONDUIT #4



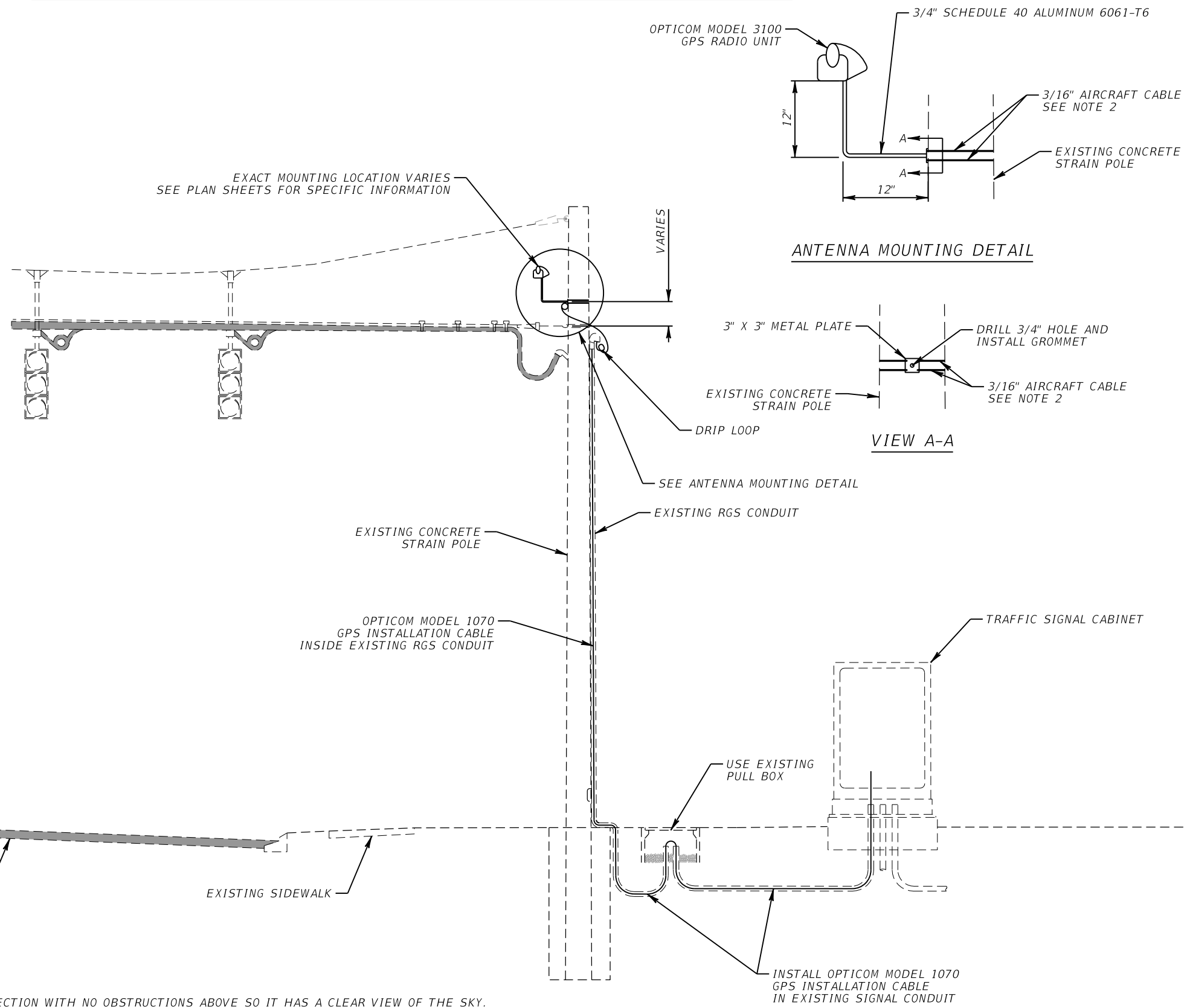
NOTES:

1. ANTENNA SHALL TYPICALLY BE ORIENTED TOWARDS THE INTERSECTION WITH NO OBSTRUCTIONS ABOVE SO IT HAS A CLEAR VIEW OF THE SKY.
2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE BRACKET AND BRACKET MOUNT ASSEMBLY TO THE POLE FOR REVIEW AND APPROVAL BY THE ENGINEER.

REVISIONS				METRIC ENGINEERING, INC. MICHAEL L. CORNEJO, P.E. # 47734 615 CRESCENT EXECUTIVE CT SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION 2294	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ANTENNA MOUNTING DETAIL SHEET NO. IT-59
DATE	DESCRIPTION	DATE	ROAD NO.		COUNTY	FINANCIAL PROJECT ID		
			VARIES		ORANGE SEMINOLE	435446-1-52-01		

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CONCRETE STRAIN POLE MOUNTED GPS USING EXISTING CONDUIT #5



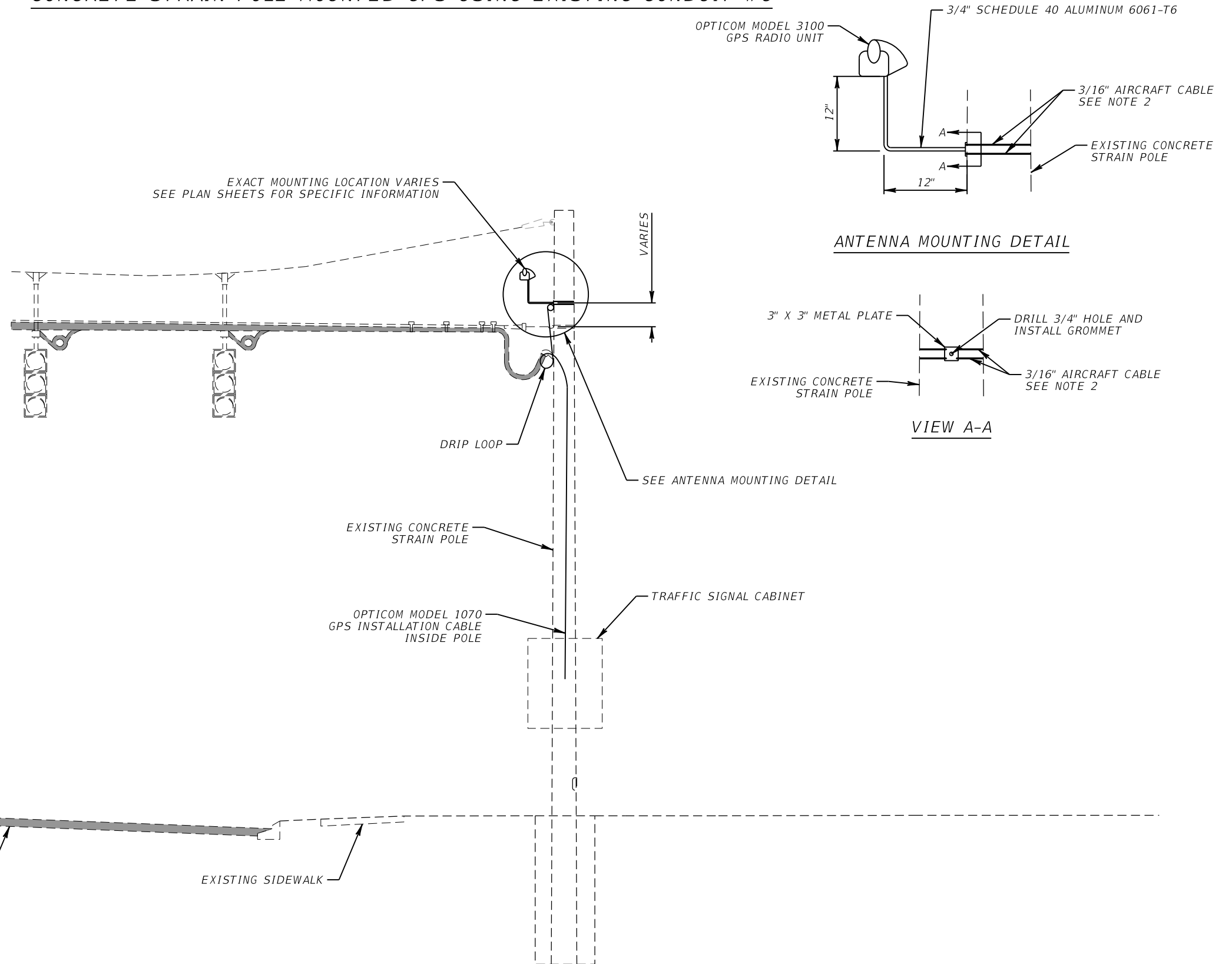
NOTES:

1. ANTENNA SHALL TYPICALLY BE ORIENTED TOWARDS THE INTERSECTION WITH NO OBSTRUCTIONS ABOVE SO IT HAS A CLEAR VIEW OF THE SKY.
2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE BRACKET AND BRACKET MOUNT ASSEMBLY TO THE POLE FOR REVIEW AND APPROVAL BY THE ENGINEER.

REVISIONS				METRIC ENGINEERING, INC. MICHAEL L. CORNEJO, P.E. # 47734 615 CRESCENT EXECUTIVE CT SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION 2294	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ANTENNA MOUNTING DETAIL SHEET NO. IT-60
DATE	DESCRIPTION	DATE	ROAD NO.		COUNTY	FINANCIAL PROJECT ID		
			VARIES		ORANGE SEMINOLE	435446-1-52-01		

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CONCRETE STRAIN POLE MOUNTED GPS USING EXISTING CONDUIT #6



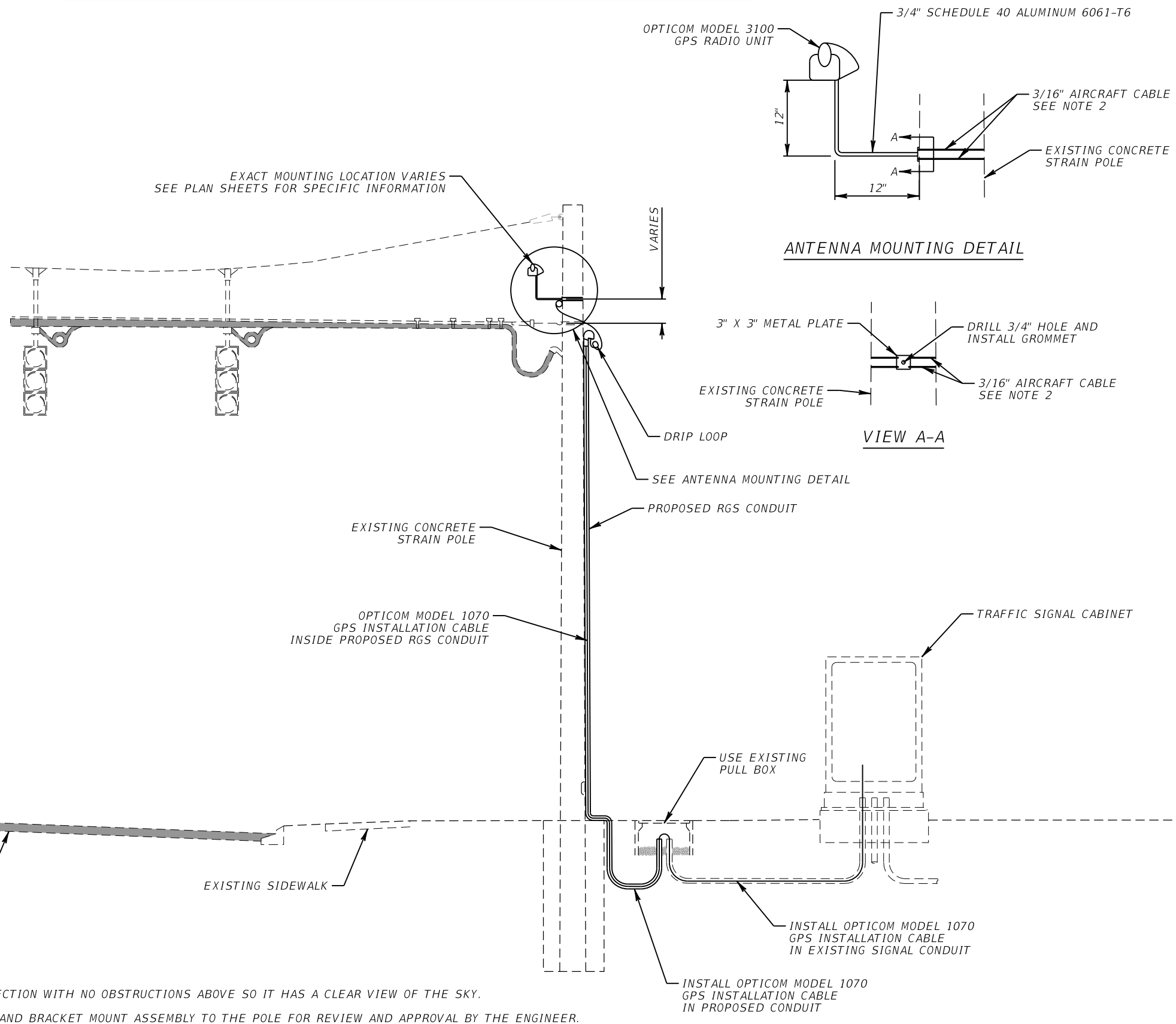
NOTES:

1. ANTENNA SHALL TYPICALLY BE ORIENTED TOWARDS THE INTERSECTION WITH NO OBSTRUCTIONS ABOVE SO IT HAS A CLEAR VIEW OF THE SKY.
2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE BRACKET AND BRACKET MOUNT ASSEMBLY TO THE POLE FOR REVIEW AND APPROVAL BY THE ENGINEER.

REVISIONS				METRIC ENGINEERING, INC. MICHAEL L. CORNEJO, P.E. # 47734 615 CRESCENT EXECUTIVE CT SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION 2294	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. ANTENNA MOUNTING DETAIL IT-61
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					VARIES	ORANGE SEMINOLE	435446-1-52-01	

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CONCRETE STRAIN POLE MOUNTED GPS USING NEW CONDUIT #1



ANTENNA MOUNTING DETAIL

VIEW A-A

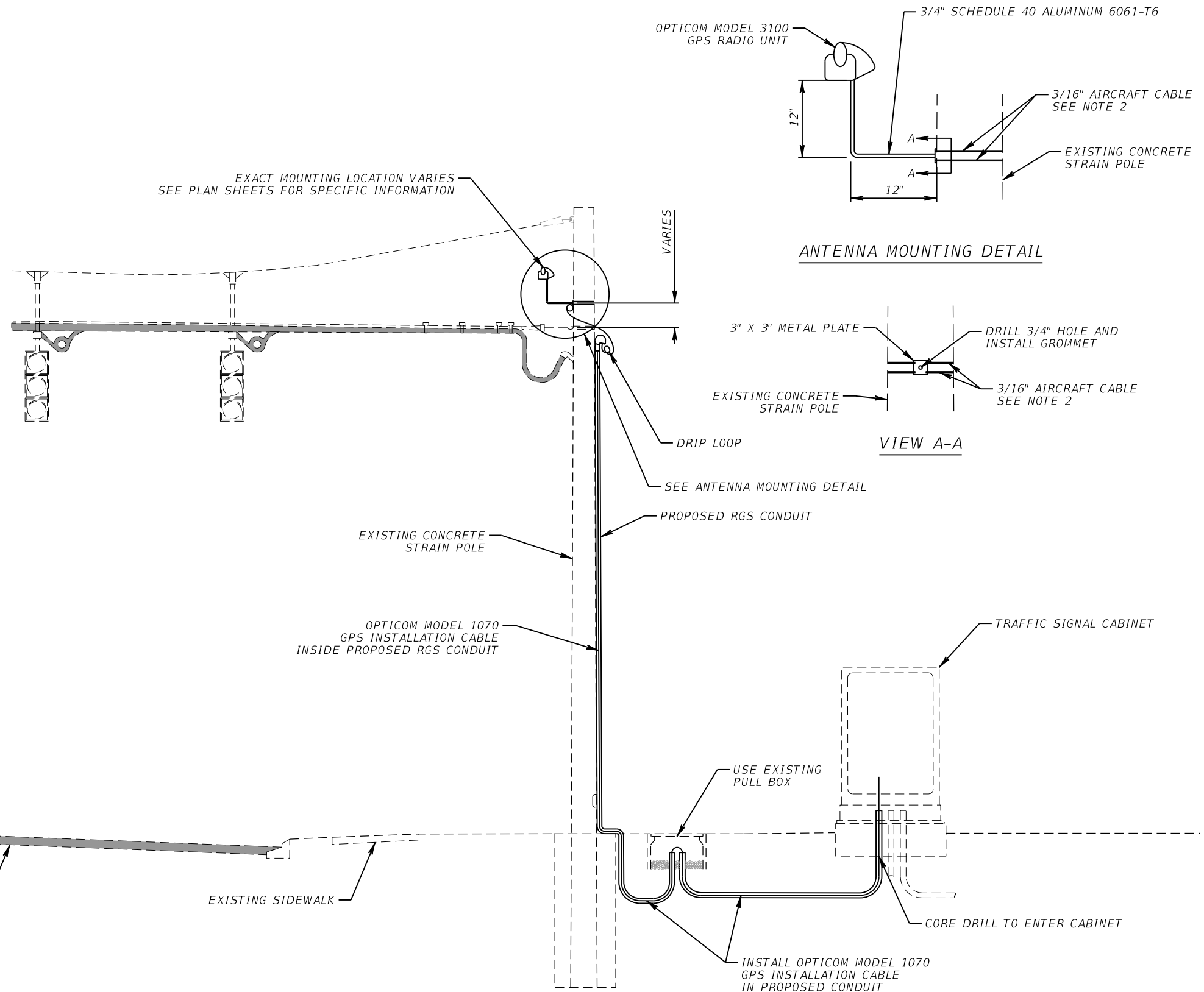
NOTES:

1. ANTENNA SHALL TYPICALLY BE ORIENTED TOWARDS THE INTERSECTION WITH NO OBSTRUCTIONS ABOVE SO IT HAS A CLEAR VIEW OF THE SKY.
2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE BRACKET AND BRACKET MOUNT ASSEMBLY TO THE POLE FOR REVIEW AND APPROVAL BY THE ENGINEER.

REVISIONS				METRIC ENGINEERING, INC. MICHAEL L. CORNEJO, P.E. # 47734 615 CRESCENT EXECUTIVE CT SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION 2294	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ANTENNA MOUNTING DETAIL	SHEET NO.
DATE	DESCRIPTION	DATE	ROAD NO.		COUNTY	FINANCIAL PROJECT ID	IT-62		
			VARIES		ORANGE SEMINOLE	435446-1-52-01			

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CONCRETE STRAIN POLE MOUNTED GPS USING NEW CONDUIT #2



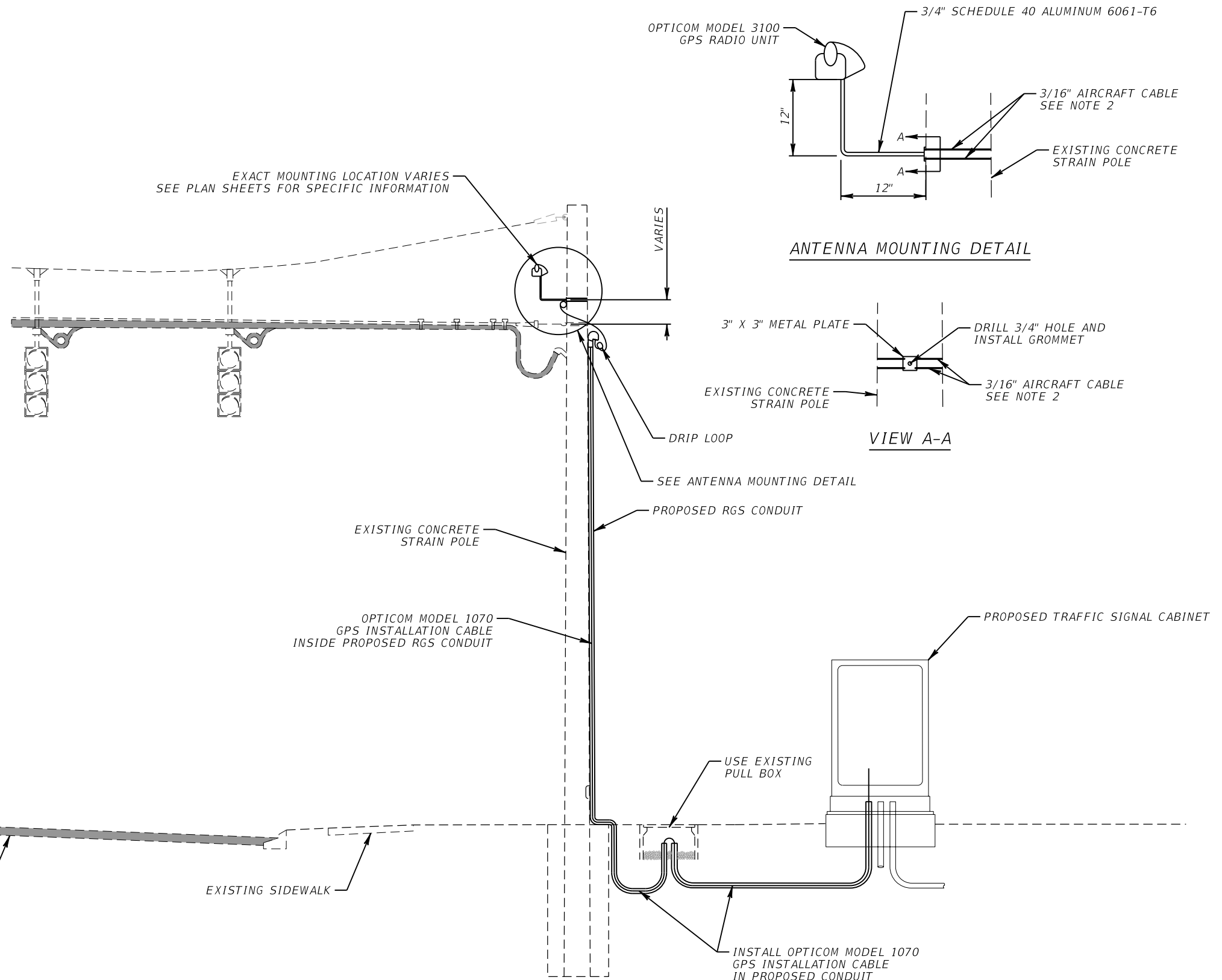
NOTES:

1. ANTENNA SHALL TYPICALLY BE ORIENTED TOWARDS THE INTERSECTION WITH NO OBSTRUCTIONS ABOVE SO IT HAS A CLEAR VIEW OF THE SKY.
2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE BRACKET AND BRACKET MOUNT ASSEMBLY TO THE POLE FOR REVIEW AND APPROVAL BY THE ENGINEER.

REVISIONS				METRIC ENGINEERING, INC. MICHAEL L. CORNEJO, P.E. # 47734 615 CRESCENT EXECUTIVE CT SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION 2294	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ANTENNA MOUNTING DETAIL	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		IT-63
					VARIES	ORANGE SEMINOLE	435446-1-52-01		

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CONCRETE STRAIN POLE MOUNTED GPS USING NEW CONDUIT #3



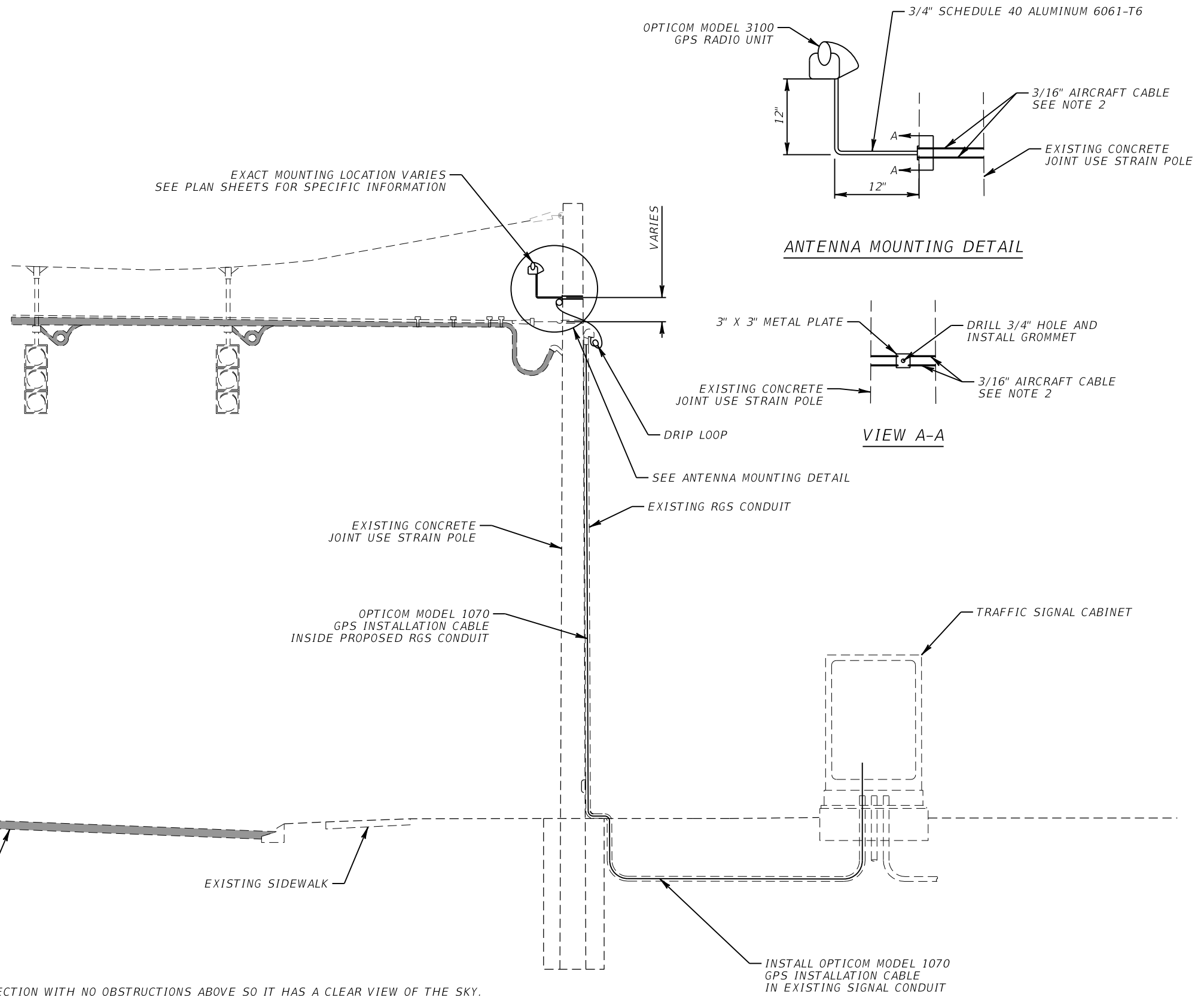
NOTES:

1. ANTENNA SHALL TYPICALLY BE ORIENTED TOWARDS THE INTERSECTION WITH NO OBSTRUCTIONS ABOVE SO IT HAS A CLEAR VIEW OF THE SKY.
2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE BRACKET AND BRACKET MOUNT ASSEMBLY TO THE POLE FOR REVIEW AND APPROVAL BY THE ENGINEER.

REVISIONS				METRIC ENGINEERING, INC. MICHAEL L. CORNEJO, P.E. # 47734 615 CRESCENT EXECUTIVE CT SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION 2294	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ANTENNA MOUNTING DETAIL	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					VARIES	ORANGE SEMINOLE	435446-1-52-01		IT-64

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

CONCRETE JOINT USE STRAIN POLE MOUNTED GPS USING EXISTING CONDUIT #1



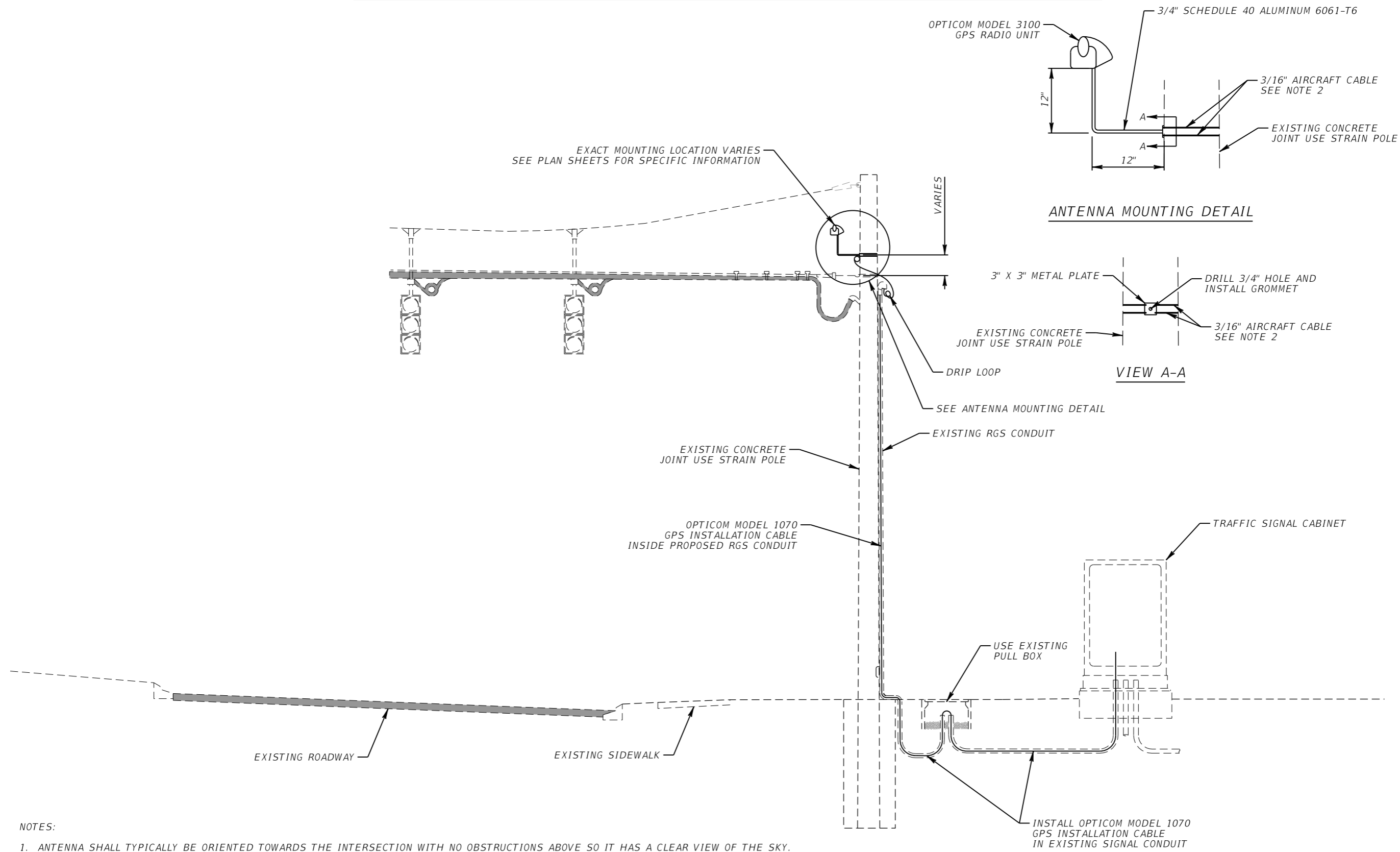
NOTES:

1. ANTENNA SHALL TYPICALLY BE ORIENTED TOWARDS THE INTERSECTION WITH NO OBSTRUCTIONS ABOVE SO IT HAS A CLEAR VIEW OF THE SKY.
2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE BRACKET AND BRACKET MOUNT ASSEMBLY TO THE POLE FOR REVIEW AND APPROVAL BY THE ENGINEER.

REVISIONS				METRIC ENGINEERING, INC. MICHAEL L. CORNEJO, P.E. # 47734 615 CRESCENT EXECUTIVE CT SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION 2294	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ANTENNA MOUNTING DETAIL	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					VARIES	ORANGE SEMINOLE	435446-1-52-01		IT-65

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

CONCRETE JOINT USE STRAIN POLE MOUNTED GPS USING EXISTING CONDUIT #2



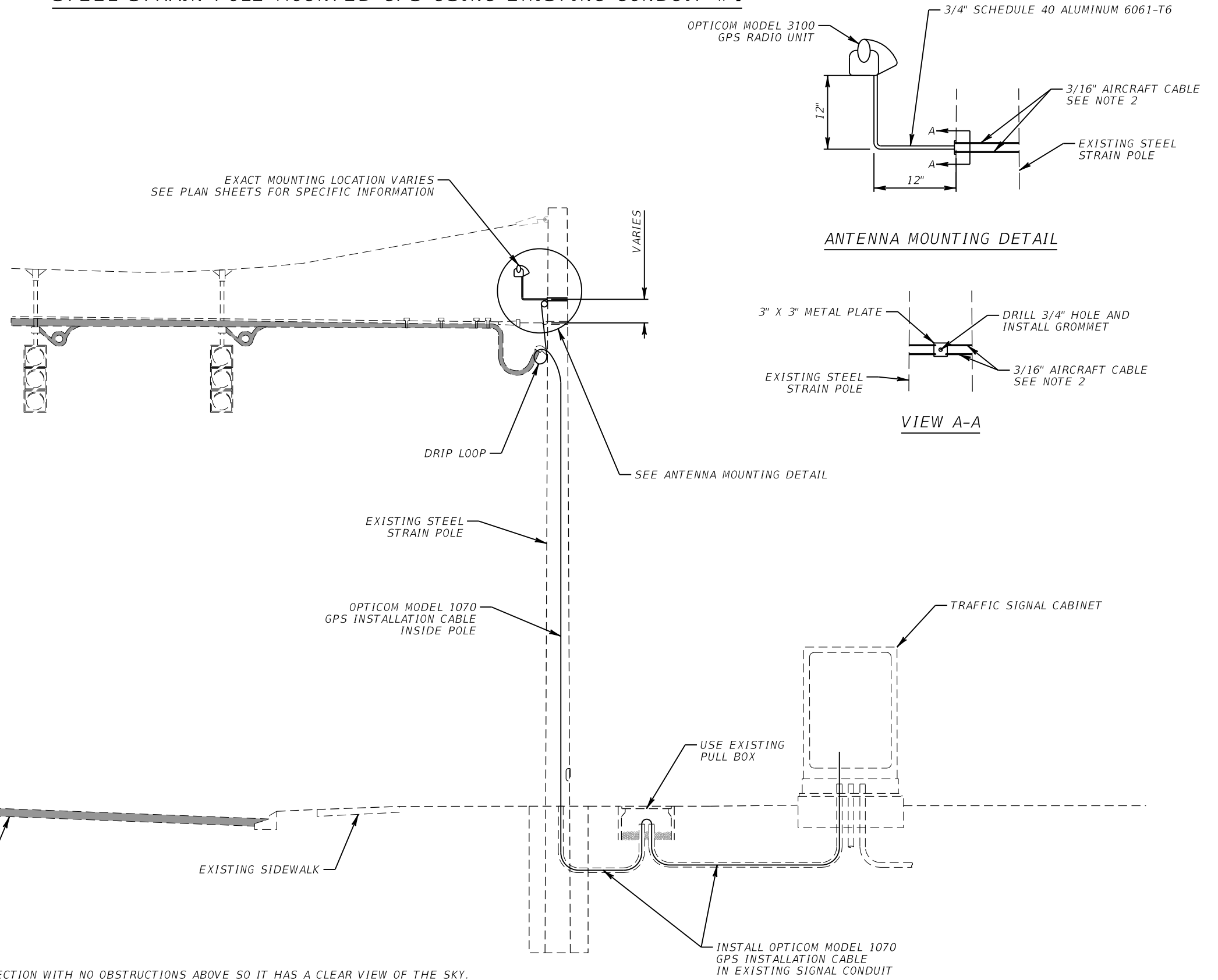
NOTES:

1. ANTENNA SHALL TYPICALLY BE ORIENTED TOWARDS THE INTERSECTION WITH NO OBSTRUCTIONS ABOVE SO IT HAS A CLEAR VIEW OF THE SKY.
2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE BRACKET AND BRACKET MOUNT ASSEMBLY TO THE POLE FOR REVIEW AND APPROVAL BY THE ENGINEER.

REVISIONS				METRIC ENGINEERING, INC. MICHAEL L. CORNEJO, P.E. # 47734 615 CRESCENT EXECUTIVE CT SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION 2294	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ANTENNA MOUNTING DETAIL SHEET NO. IT-66
DATE	DESCRIPTION	DATE	ROAD NO.		COUNTY	FINANCIAL PROJECT ID		
			VARIES		ORANGE SEMINOLE	435446-1-52-01		

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

STEEL STRAIN POLE MOUNTED GPS USING EXISTING CONDUIT #1



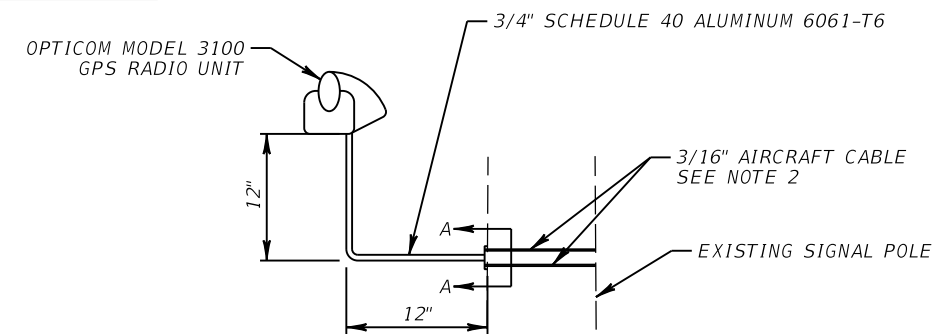
NOTES:

1. ANTENNA SHALL TYPICALLY BE ORIENTED TOWARDS THE INTERSECTION WITH NO OBSTRUCTIONS ABOVE SO IT HAS A CLEAR VIEW OF THE SKY.
2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE BRACKET AND BRACKET MOUNT ASSEMBLY TO THE POLE FOR REVIEW AND APPROVAL BY THE ENGINEER.

REVISIONS				METRIC ENGINEERING, INC. MICHAEL L. CORNEJO, P.E. # 47734 615 CRESCENT EXECUTIVE CT SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION 2294	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. IT-67
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					VARIES	ORANGE SEMINOLE	435446-1-52-01	

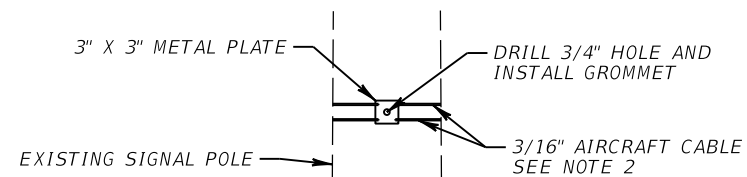
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

SIGNAL POLE MOUNTED GPS USING EXISTING CONDUIT #1

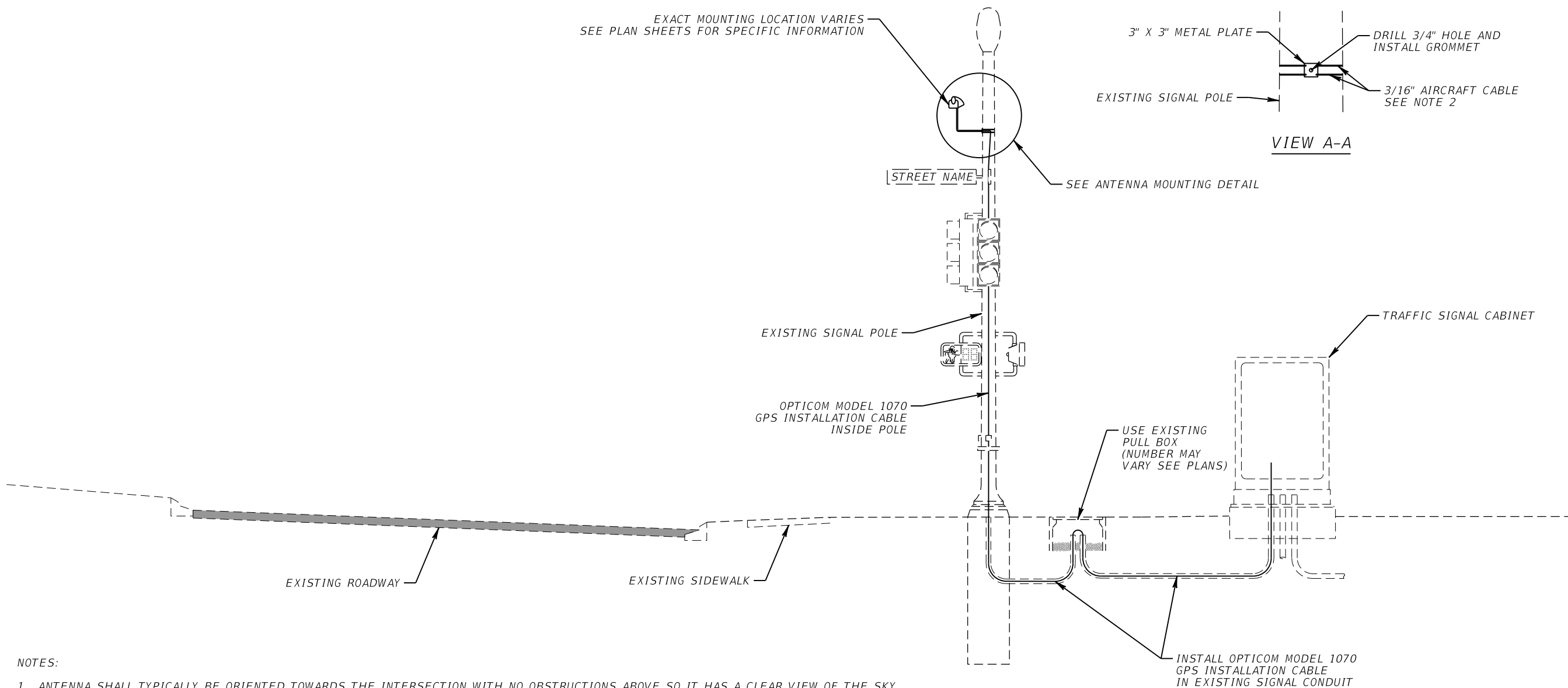


ANTENNA MOUNTING DETAIL

EXACT MOUNTING LOCATION VARIES
SEE PLAN SHEETS FOR SPECIFIC INFORMATION



VIEW A-A



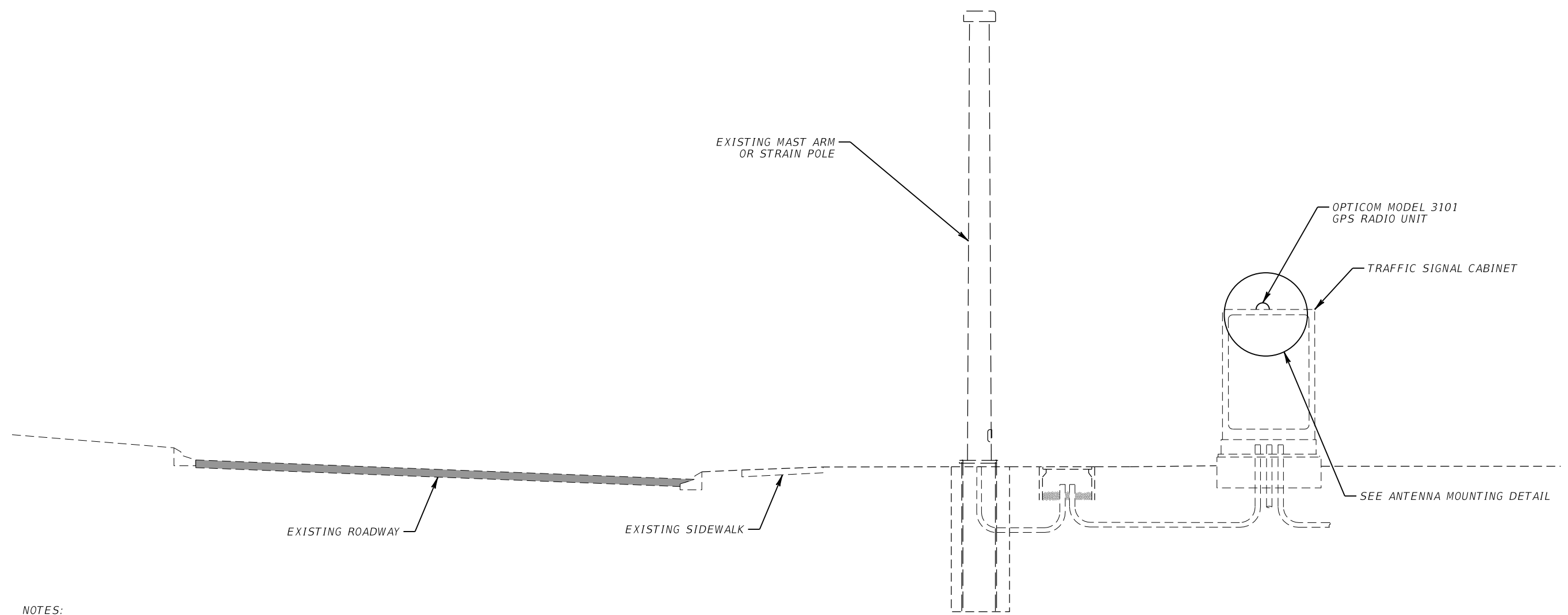
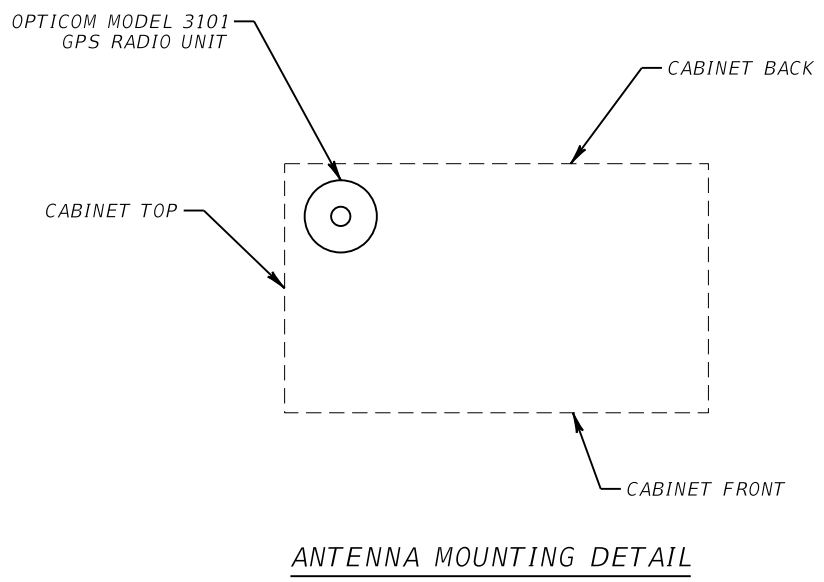
NOTES:

1. ANTENNA SHALL TYPICALLY BE ORIENTED TOWARDS THE INTERSECTION WITH NO OBSTRUCTIONS ABOVE SO IT HAS A CLEAR VIEW OF THE SKY.
2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE BRACKET AND BRACKET MOUNT ASSEMBLY TO THE POLE FOR REVIEW AND APPROVAL BY THE ENGINEER.

REVISIONS				METRIC ENGINEERING, INC. MICHAEL L. CORNEJO, P.E. # 47734 615 CRESCENT EXECUTIVE CT SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION 2294	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. ANTENNA MOUNTING DETAIL IT-68
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					VARIES	ORANGE SEMINOLE	435446-1-52-01	

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

TRAFFIC SIGNAL CABINET MOUNTED GPS #1



- NOTES:
 1. ANTENNA SHALL BE ORIENTED SO IT HAS A CLEAR VIEW OF THE SKY.

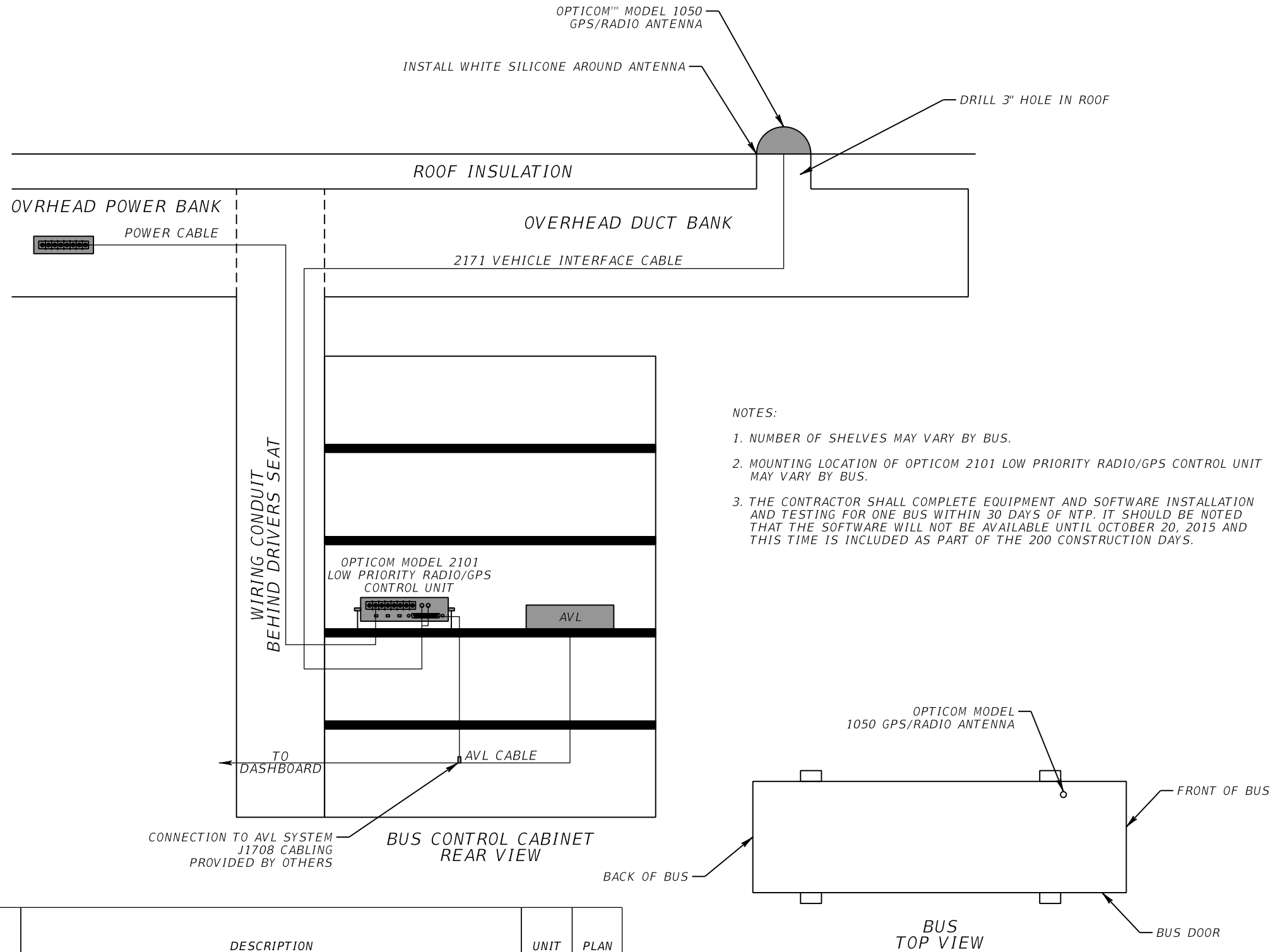
REVISIONS				METRIC ENGINEERING, INC. MICHAEL L. CORNEJO, P.E. # 47734 615 CRESCENT EXECUTIVE CT SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION 2294	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ANTENNA MOUNTING DETAIL	SHEET NO. IT-69
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					VARIES	ORANGE SEMINOLE	435446-1-52-01		

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LYNX BUS INFORMATION

BUS INSTALLATION DETAIL #1

BUS #	YEAR	MAKE	MODEL
590	2006	Gillig	40' BRT - G29D102N4
591	2006	Gillig	40' BRT - G29D102N4
592	2006	Gillig	40' BRT - G29D102N4
593	2006	Gillig	40' BRT - G29D102N4
594	2006	Gillig	40' BRT - G29D102N4
596	2006	Gillig	40' BRT - G29D102N4
597	2006	Gillig	40' BRT - G29D102N4
598	2006	Gillig	40' BRT - G29D102N4
599	2006	Gillig	40' BRT - G29D102N4
610	2007	Gillig	40' LF BRT - G27D102N4
612	2007	Gillig	40' LF BRT - G27D102N4
613	2007	Gillig	40' LF BRT - G27D102N4
614	2007	Gillig	40' LF BRT - G27D102N4
616	2007	Gillig	40' LF BRT - G27D102N4
618	2007	Gillig	40' LF BRT - G27D102N4
620	2007	Gillig	40' LF BRT - G27D102N4
621	2007	Gillig	40' LF BRT - G27D102N4
622	2007	Gillig	40' LF BRT - G27D102N4
643	2007	Gillig	40' LF BRT - G27D102N4
646	2008	Gillig	40'x102-SSTL-LF- G27D102N4
649	2008	Gillig	40'x102-SSTL-LF- G27D102N4
650	2008	Gillig	40'x102-SSTL-LF- G27D102N4
651	2008	Gillig	40'x102-SSTL-LF- G27D102N4
652	2008	Gillig	40'x102-SSTL-LF- G27D102N4
656	2008	Gillig	40'x102-SSTL-LF- G27D102N4
664	2008	Gillig	40'x102-SSTL-LF- G27D102N4
708	2006	Gillig	35' LF BRT- G29B102N4
709	2006	Gillig	35' LF BRT- G29B102N4
710	2006	Gillig	35' LF BRT- G29B102N4
714	2007	Gillig	35' LF BRT- G29B102N4
716	2007	Gillig	35' LF BRT- G29B102N4
717	2007	Gillig	35' LF BRT- G29B102N4
719	2007	Gillig	35' LF BRT- G29B102N4
720	2007	Gillig	35' LF BRT- G29B102N4
731	2008	Gillig	35' LF BRT-G27B102N2
732	2008	Gillig	35' LF BRT-G27B102N2
733	2008	Gillig	35' LF BRT-G27B102N2
734	2008	Gillig	35' LF BRT-G27B102N2
736	2008	Gillig	35' LF BRT-G27B102N2
737	2008	Gillig	35' LF BRT-G27B102N2
738	2008	Gillig	35' LF BRT-G27B102N2
739	2008	Gillig	35' LF BRT-G27B102N2
813	2007	Gillig	40' LF BRT Suburban G27D102N4
4-409	2009	Gillig	40' LF BRT G27D102N4
10-309	2009	Gillig	35' LF BRT- G27B102N4
11-309	2009	Gillig	35' LF BRT- G27B102N4
12-309	2009	Gillig	35' LF BRT- G27B102N4
13-309	2009	Gillig	35' LF BRT- G27B102N4
14-309	2009	Gillig	35' LF BRT- G27B102N4
15-309	2009	Gillig	35' LF BRT- G27B102N4
16-309	2009	Gillig	35' LF BRT- G27B102N4
17-309	2009	Gillig	35' LF BRT- G27B102N4
18-309	2009	Gillig	35' LF BRT- G27B102N4
19-309	2009	Gillig	35' LF BRT- G27B102N4
21-309	2009	Gillig	35' LF BRT- G27B102N4
28-310	2010	Gillig	35' LF BRT-Hybrid- G30B102N4
29-310	2010	Gillig	35' LF BRT-Hybrid- G30B102N4
30-310	2010	Gillig	35' LF BRT-Hybrid- G30B102N4
31-310	2010	Gillig	35' LF BRT-Hybrid- G30B102N4
32-310	2010	Gillig	35' LF BRT-Hybrid- G30B102N4
33-310	2010	Gillig	35' LF BRT-Hybrid- G30B102N4
34-310	2010	Gillig	35' LF BRT-Hybrid- G30B102N4
35-310	2010	Gillig	35' LF BRT-Hybrid- G30B102N4
36-310	2010	Gillig	35' LF BRT-Hybrid- G30B102N4
40-410	2010	Gillig	40' LF BRT G27D102N4
44-410	2010	Gillig	40' LF BRT G27D102N4
45-410	2010	Gillig	40' LF BRT G27D102N4
51-410	2010	Gillig	40' LF BRT G27D102N4
115-412	2012	Gillig	40' LF BRT G27D102N4
117-412	2012	Gillig	40' LF BRT G27D102N4
118-413	2013	Gillig	40' LF BRT G27D102N4
119-413	2013	Gillig	40' LF BRT G27D102N4
120-413	2012	Gillig	40' LF BRT G27D102N4
121-413	2013	Gillig	40' LF BRT G27D102N4
125-413	2012	Gillig	40' LF BRT G27D102N4
126-413	2013	Gillig	40' LF BRT G27D102N4
145-414	2014	Gillig	40' LF BRT-Hybrid- G30B102N4
152-414	2014	Gillig	40' LF BRT G27D102N4
165-414	2014	Gillig	40' LF BRT G27D102N4



- NOTES:
1. NUMBER OF SHELVES MAY VARY BY BUS.
 2. MOUNTING LOCATION OF OPTICOM 2101 LOW PRIORITY RADIO/GPS CONTROL UNIT MAY VARY BY BUS.
 3. THE CONTRACTOR SHALL COMPLETE EQUIPMENT AND SOFTWARE INSTALLATION AND TESTING FOR ONE BUS WITHIN 30 DAYS OF NTP. IT SHOULD BE NOTED THAT THE SOFTWARE WILL NOT BE AVAILABLE UNTIL OCTOBER 20, 2015 AND THIS TIME IS INCLUDED AS PART OF THE 200 CONSTRUCTION DAYS.

PAY ITEM NO.	DESCRIPTION	UNIT	PLAN
633-8-1	MULTI-CONDUCTOR COMMUNICATION CABLE (F&I)	LF	1975
663-1-129	SIGNAL PRIORITY AND PREEMPTION SYSTEM (F&I, GPS, EMITTER FOR BUS)	EA	79

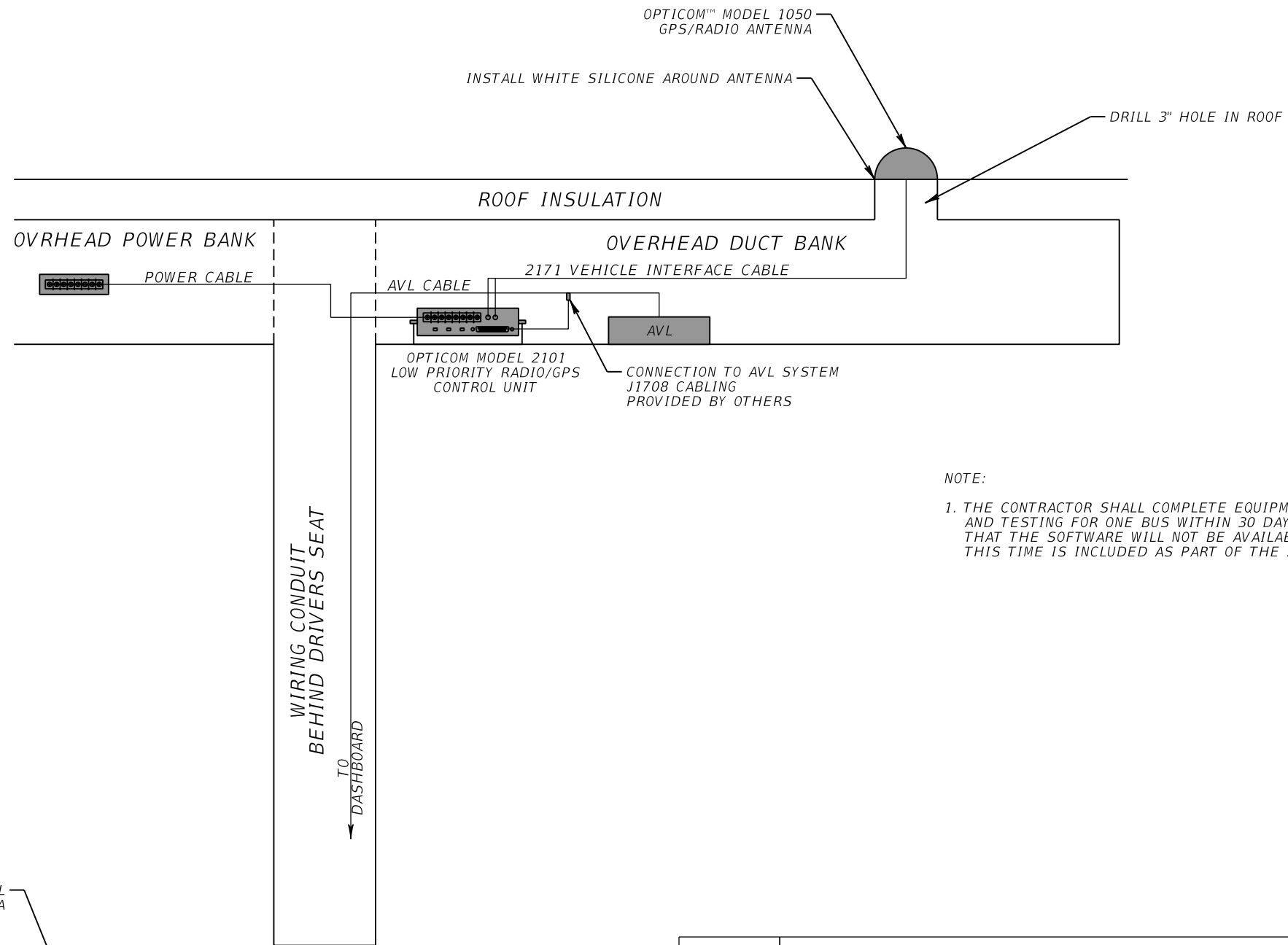
REVISIONS				METRIC ENGINEERING, INC. MICHAEL L. CORNEJO, P.E. # 47734 615 CRESCENT EXECUTIVE CT SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION 2294	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. BUS DETAILS IT-70
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					VARIES	ORANGE SEMINOLE	435446-1-52-01	

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BUS INSTALLATION DETAIL #2

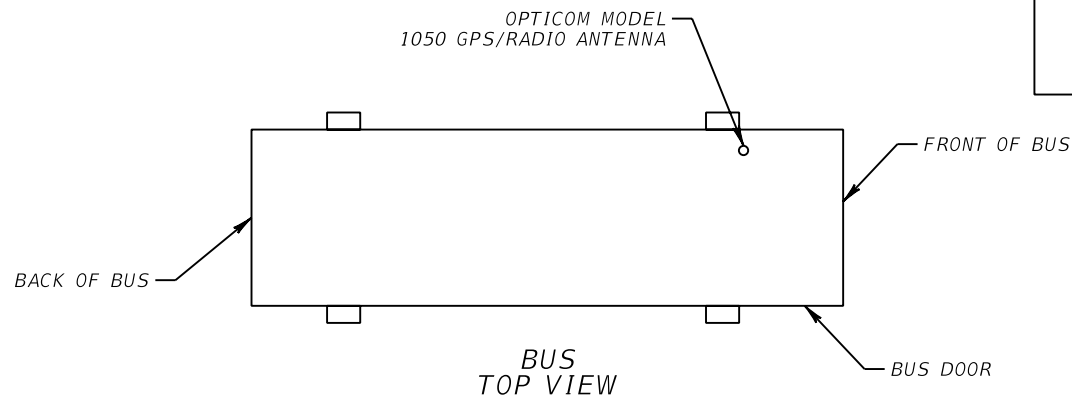
LYNX BUS INFORMATION

BUS #	YEAR	MAKE	MODEL
724	2007	Gillig	29' LF BRT -G27E102N2
725	2007	Gillig	29' LF BRT -G27E102N2
725	2007	Gillig	29' LF BRT -G27E102N2
726	2007	Gillig	29' LF BRT -G27E102N2



NOTE:

1. THE CONTRACTOR SHALL COMPLETE EQUIPMENT AND SOFTWARE INSTALLATION AND TESTING FOR ONE BUS WITHIN 30 DAYS OF NTP. IT SHOULD BE NOTED THAT THE SOFTWARE WILL NOT BE AVAILABLE UNTIL OCTOBER 20, 2015 AND THIS TIME IS INCLUDED AS PART OF THE 200 CONSTRUCTION DAYS.

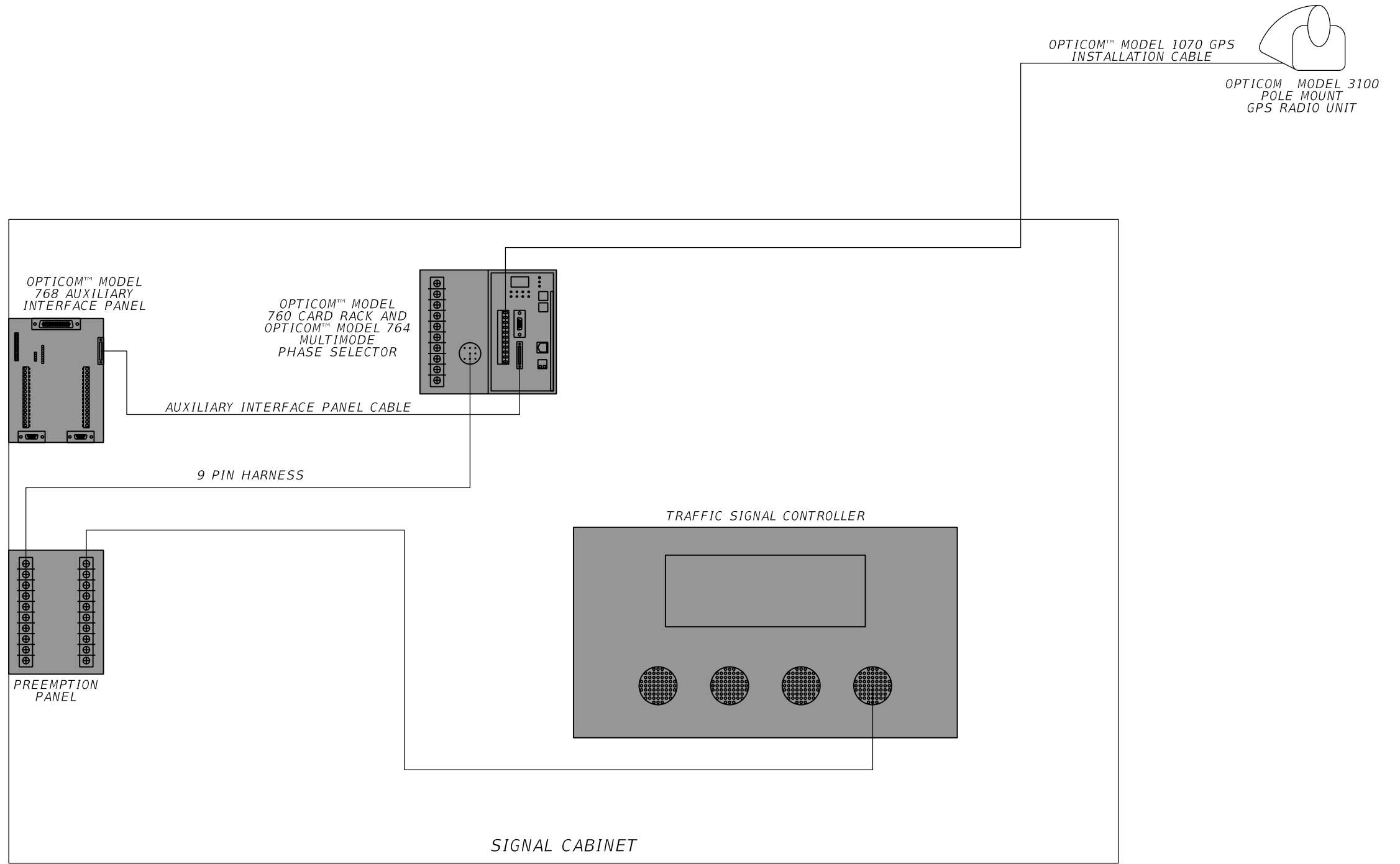


PAY ITEM NO.	DESCRIPTION	UNIT	PLAN
633-8-1	MULTI-CONDUCTOR COMMUNICATION CABLE (F&I)	LF	100
663-1-129	SIGNAL PRIORITY AND PREEMPTION SYSTEM (F&I, GPS, EMITTER FOR BUS)	EA	4

REVISIONS				METRIC ENGINEERING, INC. MICHAEL L. CORNEJO, P.E. # 47734 615 CRESCENT EXECUTIVE CT SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION 2294	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			BUS DETAILS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		IT-71
					VARIES	ORANGE SEMINOLE	435446-1-52-01		

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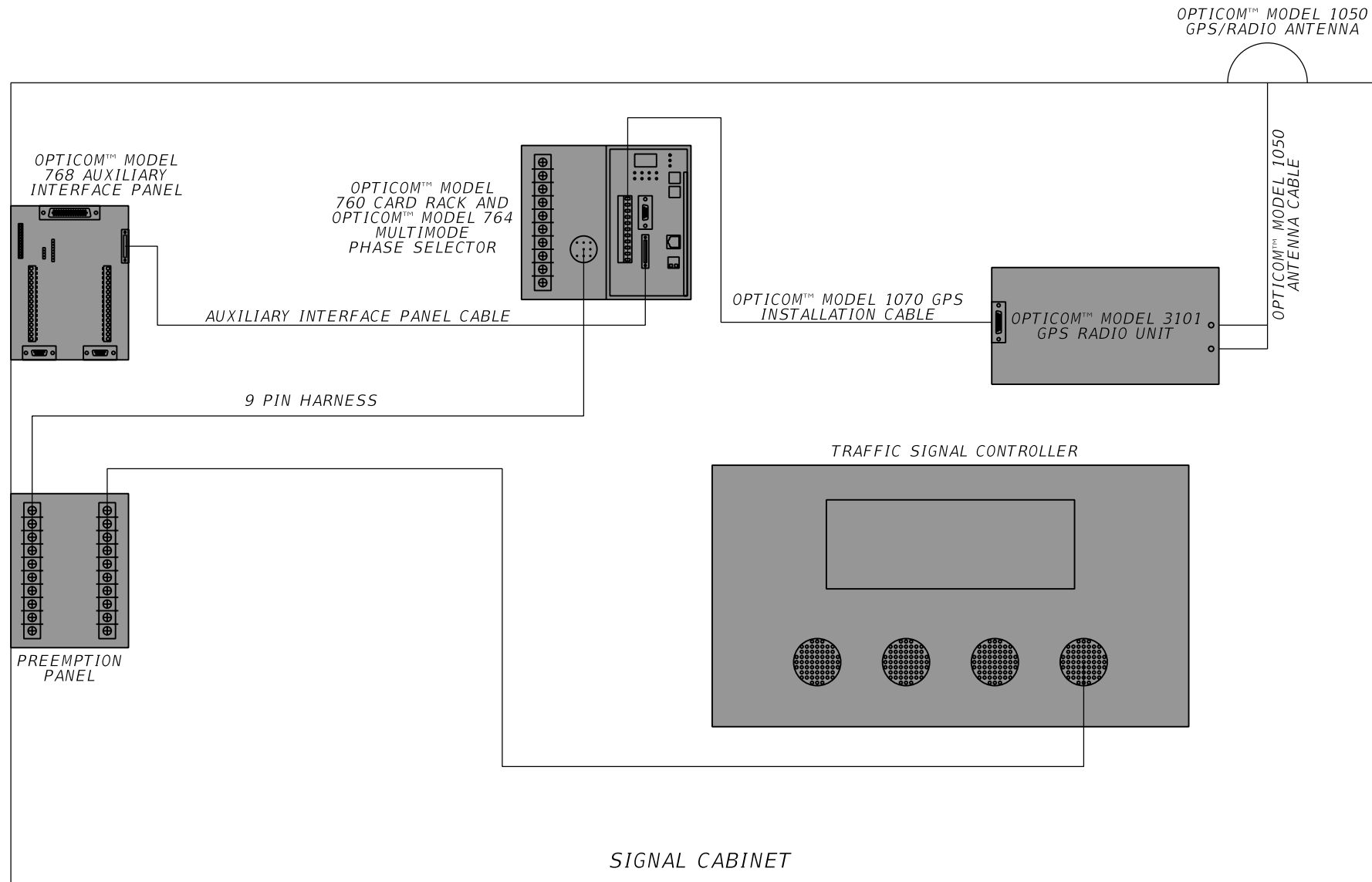
TYPICAL OPTICOM™ MODEL 3100 SIGNAL POLE MOUNT WIRING DIAGRAM



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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					VARIES	ORANGE SEMINOLE	435446-1-52-01		

TYPICAL OPTICOM™ MODEL 3101 CABINET MOUNT WIRING DIAGRAM



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

METRIC ENGINEERING, INC.
 MICHAEL L. CORNEJO, P.E. # 47734
 615 CRESCENT EXECUTIVE CT
 SUITE 524
 LAKE MARY, FLORIDA 32746
 TEL. (407) 644-1898
 FAX. (407) 644-2376
 CERTIFICATE OF AUTHORIZATION 2294

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
VARIES	ORANGE SEMINOLE	435446-1-52-01

WIRING DIAGRAMS

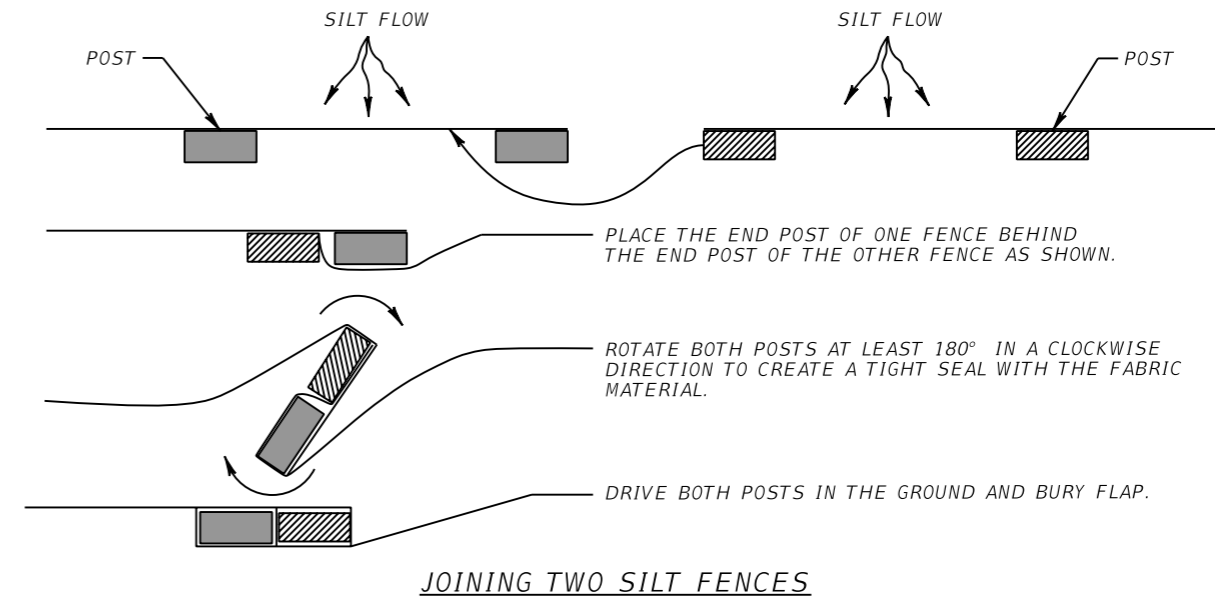
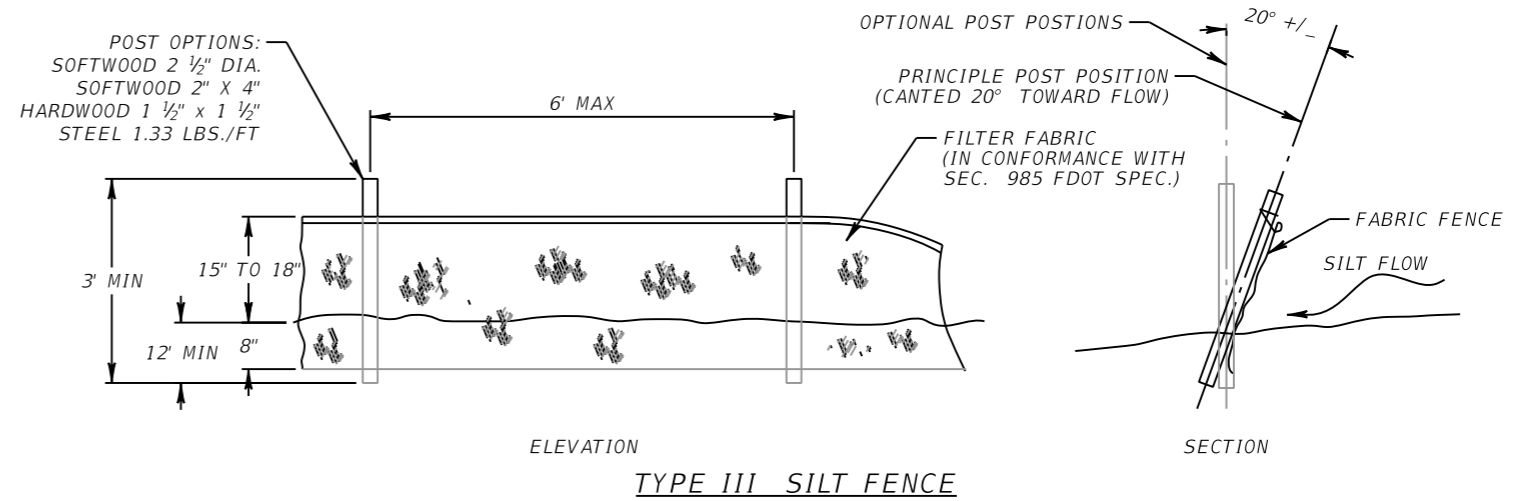
SHEET NO.
IT-73

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

EROSION CONTROL DETAIL NTS

NOTES:

1. THE CONTRACTOR SHALL EXECUTE ALL MEASURES NECESSARY TO LIMIT TRANSPORT OF SEDIMENTS OUTSIDE THE LIMITS OF THE PROJECT TO THE VOLUME AND AMOUNT THAT ARE EXISTING PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. THIS CONDITION WILL BE SATISFIED FOR THE TOTAL ANTICIPATED CONSTRUCTION PERIOD. PROVISION MUST BE MADE TO PRESERVE THE INTEGRITY AND CAPACITY OF CHECK WEIRS, SEDIMENT BASINS, SLOPE DRAINS, GRADING PATTERNS, ETC. REQUIRED TO MEET THIS PROVISION THROUGHOUT THE LIFE OF THE CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE SYNTHETIC BALES, SILT BARRIERS, TEMPORARY GRASSING, ETC. AS REQUIRED TO FULLY COMPLY WITH THE INTENT OF THIS SPECIFICATION. COSTS TO BE INCIDENTAL TO PAY ITEMS.
2. NO EXCAVATED MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE OR INTO ANY ADJACENT WATER BODY OR STORMWATER COLLECTION FACILITY.
3. THE SURFACE AREA OF OPEN, RAW, ERODIBLE SOIL EXPOSED BY CLEARING AND GRUBBING OPERATIONS OR EXCAVATION AND FILLING OPERATIONS SHALL BE CONTROLLED, SO THAT THIS OPERATION WILL NOT SIGNIFICANTLY AFFECT OFF-SITE DEPOSIT OF SEDIMENTS.
4. INLETS AND CATCH BASINS SHALL BE PROTECTED FROM SEDIMENT LADEN STORMWATER RUNOFF UNTIL THE COMPLETION OF ALL CONSTRUCTION OPERATIONS THAT MAY CONTRIBUTE SEDIMENT TO THE INLET.
5. ALL FEATURES OF THE PROJECT SHALL BE CONSTRUCTED TO PREVENT EROSION AND SEDIMENT AND SHALL BE MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO FUNCTION PROPERLY WITHOUT THE TRANSPORT OF SEDIMENTS OUTSIDE THE LIMITS OF THE PROJECT.
6. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS CONTROLLING POLLUTION OF THE ENVIRONMENT. MEASURES SHALL BE TAKEN BY THE CONTRACTOR TO CONTROL EROSION AND SEDIMENT RUNOFF FROM THE SITE DURING CONSTRUCTION. SUCH METHODS SHALL BE IN ACCORDANCE WITH THE CURRENT FLORIDA DEPARTMENT OF TRANSPORTATION STANDARDS.
7. TEMPORARY SILT FENCE IS TO BE IN PLACE PRIOR TO BEGINNING OPERATIONS WHERE SEDIMENTS MIGHT OTHERWISE BE TRANSPORTED INTO BODIES OF WATER OR DESIGNATED WETLAND LIMITS.
8. TYPE III SILT FENCE TO BE USED AT MOST LOCATIONS.
9. TYPE IV SILT FENCE TO BE USED WHERE LARGE SEDIMENT LOADS ARE ANTICIPATED. SUGGESTED USE IS WHERE FILL SLOPE IS 1:2 OR STEEPER AND LENGTH OF SLOPE EXCEED 25 FEET. AVOID USE WHERE THE DETAINED WATER MAY BACK INTO TRAVEL LANES OR OFF THE RIGHT OF WAY.
10. DO NOT CONSTRUCT SILT FENCES ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE AT UPLAND LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER.
11. WHERE USED AS SLOPE PROTECTION, SILT FENCE IS TO BE CONSTRUCTED ON 0% LONGITUDINAL GRADE TO AVOID CHANNELIZING RUNOFF ALONG THE LENGTH OF THE FENCE.



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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		IT-74

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

STORMWATER POLLUTION PREVENTION PLAN:

THE FOLLOWING NARRATIVE OF THE STORMWATER POLLUTION PREVENTION PLAN CONTAINS REFERENCES TO THE FDOT SPECIFICATIONS, THE DESIGN STANDARDS AND OTHER SHEETS OF THE CONSTRUCTION PLANS. THE FIRST SHEET OF THE CONSTRUCTION PLANS (KEY SHEET) CONTAINS AN INDEX TO THE OTHER SHEETS. THE COMPLETE STORMWATER POLLUTION PREVENTION PLAN INCLUDES SEVERAL ITEMS: THIS NARRATIVE DESCRIPTION, THE DOCUMENTS REFERENCED IN THIS NARRATIVE, THE CONTRACTOR'S APPROVED EROSION CONTROL PLAN REQUIRED BY SPECIFICATION SECTION 104, AND REPORTS OF INSPECTION MADE DURING CONSTRUCTION.

1. SITE DESCRIPTION:

1.A. NATURE OF CONSTRUCTION ACTIVITY:

INSTALL, CONSTRUCT AND INTEGRATE TRANSIT SIGNAL PRIORITY (TSP) ALONG TWELVE LYNX BUS CORRIDORS WITHIN THE SUNRAIL STATIONS IN CENTRAL FLORIDA. THESE ROUTES INCLUDE A TOTAL OF 134 TRAFFIC SIGNALS AND 83 BUSES. THE PROJECT INCLUDES INSTALLATION OF OPTICOM GPS SIGNAL PRE-EMPTION AND OF UNDERGROUND CONDUITS.

1.B. SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:

FDOT SPECIFICATIONS SECTION 104 FOR EROSION CONTROL PLAN AND ALL INSTALLATIONS AS PER PROJECT APPROVED CONSTRUCTION SCHEDULES WILL BE FOLLOWED. THE SEQUENCE OF ALL MAJOR ACTIVITIES WILL BE FOLLOWED AS DESCRIBED ON THE PROJECT SCHEDULE, UNLESS THE CONTRACTOR PROPOSES A DIFFERENT SEQUENCE THAT IS EQUAL OR BETTER AT CONTROLLING EROSION AND TRAPPING SEDIMENT AND IS APPROVED BY THE ENGINEER.

* ALL EROSION CONTROL DEVICES FOR EACH PHASE OF WORK ARE TO BE INSTALLED PRIOR TO BEGINNING OF CONSTRUCTION, UNLESS CONSTRUCTION ACTIVITY IS TO BE COMPLETED IN THE SAME DAY AND THERE ARE NO ERODIBLE SURFACES REMAINING IN THE AREA WHERE WORK WAS PERFORMED.

* INSTALL SEDIMENT BARRIER PER PLANS.

* TIME CONSTRUCTION ACTIVITIES TO LIMIT IMPACT FROM SEASONAL CLIMATE CHANGES OR WEATHER EVENTS.

1.C. AREA ESTIMATES:

TOTAL SITE AREA: 0.007 ACRES TOTAL SITE AREA.
TOTAL AREA TO BE DISTURBED: 0.007 ACRES EQUALS LESS THAN 1 ACRE.

1.D. RUNOFF DATA:

CONSTRUCTION ACTIVITIES ARE NOT EXPECTED TO INCREASE RUNOFF COEFFICIENTS. FURTHERMORE, MINIMAL IMPERVIOUS AREAS ARE BEING ADDED TO THE ROADWAY SYSTEM.

1.E. SITE MAP:

SINCE CONSTRUCTION ACTIVITIES ARE LIMITED TO INSTALLATIONS OF TRAFFIC SIGNAL CABINETS AND UNDERGROUND CONDUIT VIA TRENCHING BETWEEN THE BACK OF CURB AND THE RIGHT-OF-WAY LINE, DRAINAGE MAPS WERE NOT PREPARED.

APPROXIMATE SLOPES: THE CONSTRUCTION ACTIVITIES DO NOT INCLUDE THE CONSTRUCTION OF ANY EMBANKMENTS. THE EXISTING SIDE SLOPES ARE TO REMAIN. EXISTING SLOPES CAN BE SEEN IN THE CROSS SECTIONS SHOWN IN THE PLANS.

AREAS OF SOIL DISTURBANCE: SEE PLANS.

AREAS UNDISTURBED: SEE PLANS.

LOCATION OF CONTROLS: AREAS OF CONSTRUCTION THAT ARE WITHIN SIX (6) FEET OF STANDING WATER SHALL HAVE TEMPORARY EROSION CONTROL AS SHOWN IN THE PLANS.

AREAS TO BE STABILIZED: STABILIZATION PRACTICES WILL OCCUR THROUGHOUT THE LIMITS OF THE PROJECT. STABILIZATION SHALL OCCUR WHERE THERE IS DISTURBED EARTH.

SURFACE WATERS (INCLUDING WETLANDS): SEE PLANS FOR WETLAND LIMITS.

STORMWATER DISCHARGE LOCATION: SEE PLANS FOR LOCATIONS WITHIN THE PROJECT LIMITS.

STORMWATER POLLUTION PREVENTION PLAN CONTINUED:

2. CONTROLS:

ALL ITEMS DISCUSSED IN THE FOLLOWING SECTIONS ARE DESCRIBED IN DETAIL IN FDOT SPECIFICATION 104 AND THE EROSION & SEDIMENT CONTROL MANUAL.

2.A. EROSION AND SEDIMENT CONTROL:

THE SOIL EROSION AND SEDIMENT CONTROL SHALL BE MAINTAINED BY THE CONTRACTOR TO MINIMIZE THE AMOUNT OF DISTURBED SOIL, PREVENT OFF-SITE RUNOFF FROM FLOWING AGAINST THE DISTURBED AREAS, SLOW THE RUNOFF ACROSS THE SITE AND REMOVE SEDIMENT FROM ON SITE RUNOFF BEFORE IT LEAVES THE SITE.

THE ENGINEER WILL DETERMINE IF ADDITIONAL CONTROLS AND DEPLOYMENT SCHEDULES ARE NECESSARY FOR THE IMPLEMENTATION OF ALL EROSION CONTROL DEVICES. APPLICABLE CONTROL DEVICES AND IMPLEMENTATION PROCEDURES ARE PROVIDED IN THE PLANS.

CONSTRUCTION ACTIVITIES: THE MAJOR CONTROLS OUTLINED IN THIS SWPPP ARE SEDIMENT AND EROSION CONTROL THROUGH THE PHASING OF CONSTRUCTION OPERATIONS; THEREBY, LIMITING THE AMOUNT OF ERODIBLE EARTH EXPOSED AT ANY GIVEN TIME, REMOVAL OF EXCESS DIRT ON THE PAVED AREAS AND AROUND THE CONSTRUCTION AREAS, AND THE PROTECTION OF THE EXISTING OUTFALLS. MAJOR EROSION PROBLEMS ARE NOT ANTICIPATED DUE TO THE NATURE OF THIS PROPOSED WORK.

CONSTRUCTION ACTIVITIES OF THIS PROJECT CONSIST OF INSTALLATION OF OPTICOM GPS SIGNAL PRE-EMPTION, TRAFFIC SIGNAL CABINETS AND UNDERGROUND CONDUITS. CONSTRUCTION AREAS ARE LIMITED BETWEEN THE BACK OF CURB AND THE RIGHT-OF-WAY.

PRIOR TO COMMENCEMENT, THE CONTRACTOR SHALL PROVIDE TO THE DEPARTMENT A DETAILED CONSTRUCTION SCHEDULE TO INDICATE THE DATES OF MAJOR PHASES AND TO DETERMINE THE SEQUENCING OF TEMPORARY AND PERMANENT SOIL STABILIZATION ACTIVITIES ON ALL PORTIONS OF THE SITE.

PRIOR TO BEGINNING ANY PHASE OF CONSTRUCTION, THE CONTRACTOR SHALL INSTALL EROSION AND SEDIMENT CONTROL ITEMS IN ACCORDANCE WITH THE PLANS.

STOCKPILED AREAS, APPROVED BY THE ENGINEER, (WHICH WILL REQUIRE AN ENDANGERED SPECIES CLEARANCE) WILL HAVE STAKED SEDIMENT BARRIER AROUND THE PERIMETER TO PREVENT OFF-SITE FLOW OF POLLUTED STORM WATER RUNOFF.

STOCKPILED MATERIALS WILL NOT BE STORED ON-SITE FOR MORE THAN 24-HOURS PRIOR TO INSTALLATION, NOR WILL THEY BE LOCATED ADJACENT TO WATER BODIES, INLETS OR WETLANDS. SHOULD A SITUATION ARISE THAT REQUIRES THE MATERIAL TO BE STOCKPILED FOR MORE THAN 24-HOURS, PLASTIC SHEETING, FILTER FABRIC OR SEDIMENT BARRIER WILL BE PROVIDED TO REDUCE THE POTENTIAL FOR SEDIMENT TRANSPORT.

EROSION AND SEDIMENT CONTROLS SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION AND MAY BE REMOVED WHEN PERMANENT STABILIZATION IS ESTABLISHED.

REVISIONS				METRIC ENGINEERING, INC. MICHAEL L. CORNEJO, P.E. # 47734 615 CRESCENT EXECUTIVE CT SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION 2294	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			STORMWATER POLLUTION PREVENTION PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					VARIES	ORANGE SEMINOLE	435446-1-52-01		

STORMWATER POLLUTION PREVENTION PLAN CONTINUED:

2.B. STABILIZATION PRACTICES:

STABILIZATION PRACTICES TO BE IMPLEMENTED INCLUDING BUT NOT LIMITED TO PERMANENT SODDING, SEEDING OR SEED AND MULCH. THIS SHALL BE DONE IN ACCORDANCE WITH SPECIFICATIONS SECTION 570 PERFORMANCE TURF. STABILIZATION METHOD SHALL BE IMPLEMENTED AS SOON AS POSSIBLE FOLLOWING CONSTRUCTION ACTIVITIES, BUT IN NO CASE SHALL THE TIME BE GREATER THAN SEVEN DAYS AFTER THE CONSTRUCTION HAS CEASED. THE CONTRACTOR SHALL DOCUMENT IN THE SWPPP EROSION CONTROL INSPECTION REPORTS.

2.C. STORMWATER MANAGEMENT:

THE EXISTING STORMWATER MANAGEMENT SYSTEM ALONG THE PROJECT LIMITS PRIMARILY CONSISTS OF AN OPEN DRAINAGE SYSTEM WITH SOME CROSS DRAINAGE AND CATCH BASINS THAT CONVEY STORMWATER INTO DITCH SWALES THAT ULTIMATELY DISCHARGE IN PONDS OR CANALS. MINIMAL ADDITIONAL IMPERVIOUS AREAS ARE PROPOSED; THEREFORE, NO CHANGES TO EXISTING STORMWATER MANAGEMENT SYSTEM ARE REQUIRED.

2.D. OTHER CONTROLS:

WASTE DISPOSAL: THE CONTRACTOR SHALL DOCUMENT ANY LITTER REMOVAL IN THE SWPPP EROSION CONTROL INSPECTION REPORTS.

OFF SITE VEHICLE TRACKING AND DUST CONTROL: THE CONTRACTOR SHALL DESCRIBE THE PROPOSED METHODS FOR MINIMIZING OFF-SITE VEHICLE TRACKING OF SEDIMENTS. ALL CONSTRUCTION ENTRANCES TO THE CORRIDOR SHALL BE FROM EXISTING ENTRANCES (RAMPS, MAINLINE). THE CONTRACTOR WILL PROVIDE POLLUTION CONTROL BY IMPLEMENTING DUST CONTROL DURING DUST GENERATING ACTIVITIES, SUCH AS DRILLING POLE FOUNDATIONS. A TRUCK SHALL REMOVE ANY EXCESS SOIL MATERIAL THAT IS TO BE DISCHARGED WITH A TARPULIN COVERING THE MATERIAL. THE CONTRACTOR SHALL DOCUMENT THIS IN THE SWPPP EROSION CONTROL INSPECTION REPORTS.

STATE AND LOCAL REGULATIONS FOR WASTE DISPOSAL: A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR WILL COLLECT ANY SANITARY WASTE FROM THE PORTABLE UNITS AS NECESSARY OR AS REQUIRED BY LOCAL REGULATION. THE CONTRACTOR SHALL DOCUMENT THIS IN THE SWPPP EROSION CONTROL INSPECTION REPORTS.

FERTILIZERS AND PESTICIDES (IF APPLICABLE): FERTILIZERS SHALL BE APPLIED ACCORDING TO APPLICABLE SUBSECTIONS OF SPECIFICATION 570 OF THE FDOT SPECIFICATIONS. FERTILIZERS AND PESTICIDES SHALL NOT BE USED WITHIN 50 FT OF ANY SURFACE WATER BODY. ALL FERTILIZERS AND PESTICIDES SHALL BE STORED, HANDLED AND APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND APPLICATION RATES. THE DISPOSAL OF ANY FERTILIZER AND PESTICIDES SHALL BE THE CONTRACTOR'S RESPONSIBILITY IN ACCORDANCE WITH EPA'S STANDARD PRACTICE BY MANUFACTURER. THE CONTRACTOR SHALL DOCUMENT THIS IN THE SWPPP EROSION CONTROL INSPECTION REPORTS.

TOXIC SUBSTANCES: THE CONTRACTOR IS RESPONSIBLE TO REPORT ANY CHEMICAL SPILLS TO THE FDOT. IF CONTAMINATED SOILS OR GROUNDWATER IS ENCOUNTERED DURING CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL STOP WORK IMMEDIATELY AND CONTACT THE ENGINEER.

STATE AND LOCAL PLANS: THE CONTRACTOR SHALL FOLLOW THE CONDITIONS AND SPECIFICATIONS OUTLINED IN THE WATER MANAGEMENT DISTRICT AND THE ENVIRONMENTAL PROTECTION AGENCY PERMITS AND CRITERION.

STORMWATER POLLUTION PREVENTION PLAN CONTINUED:

MAINTENANCE:

MAINTENANCE AND REPAIR REQUIRED FOR THE CONTROL AND ABATEMENT OF EROSION AND WATER POLLUTION SHALL BE INCLUDED IN THE COST OF THE REQUIRED PAY ITEMS.

IN CASE OF EMERGENCY, THE CONTRACTOR SHALL PROVIDE A 24 HOUR CONTACT FOR EROSION CONTROL REPAIR.

3. INSPECTIONS:

THE CONTRACTOR SHALL PERFORM COMPREHENSIVE INSPECTIONS OF ALL EROSION AND SEDIMENT CONTROL FEATURES AS REQUIRED. EXCEPT FOR THE DAILY INSPECTIONS OF SEDIMENT BARRIER REQUIRED UNDER THE FDOT SPECIFICATION 104-6.4.6.3. THE CONTRACTOR SHALL GIVE THE DEPARTMENT A MINIMUM OF 24-HOUR ADVANCE NOTICE TO PROVIDE FDOT PROJECT PERSONNEL WITH THE OPPORTUNITY TO ACCOMPANY THE CONTRACTOR ON THE COMPREHENSIVE INSPECTIONS. THE CONTRACTOR SHALL SUBMIT INSPECTION REPORTS TO DISTRICT CONSTRUCTION WEEKLY. WHERE SITES HAVE BEEN FOUND TO HAVE EROSION ISSUES, INSPECTION SHALL BE CONDUCTED AS REQUIRED AT DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION.

IF INSPECTIONS INDICATE THAT THE INSTALLED STABILIZATION AND STRUCTURAL PRACTICES ARE NOT SUFFICIENT TO MINIMIZE EROSION, RETAIN SEDIMENT AND PREVENT DISCHARGING POLLUTANTS, THE CONTRACTOR SHALL PROVIDE IMMEDIATE REMEDIAL ACTION MEASURES, AS APPROVED BY THE ENGINEER.

ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED WITHIN 24 HOURS OF A RAIN EVENT THAT IS 0.5 INCHES OR GREATER.

4. NON-STORMWATER DISCHARGE:

NONE ANTICIPATED.

REVISIONS				METRIC ENGINEERING, INC. MICHAEL L. CORNEJO, P.E. # 47734 615 CRESCENT EXECUTIVE CT SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION 2294	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			STORMWATER POLLUTION PREVENTION PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		IT-76
					VARIES	ORANGE SEMINOLE	435446-1-52-01		

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SHEET NO.	CONTENTS
1	Preface Manual On Uniform Traffic Control Devices Abbreviations Symbols
2	Definitions Temporary Traffic Control Devices Pedestrian and Bicyclist Overhead Work Railroads Sight Distance Above Ground Hazard
3	Clear Zone Widths For Work Zones Superelevation Length Of Lane Closures Overweight/Oversize Vehicles Lane Widths High-Visibility Safety Apparel Regulatory Speeds In Work Zones
4	Flagger Control Survey Work Zones Signs
5	Work Zone Sign Supports
6	Project Information Sign
7	Commonly Used Warning and Regulatory Signs In Work Zones
8	Manholes/Crosswalks/Joints Truck Mounted Attenuators Removing Pavement Markings Signals Channelizing and Lighting Devices Channelizing and Lighting Devices Consistency Warning Lights Standard Orange Flag Portable Changeable (Variable) Message Signs (PCMS) Advanced Warning Arrow Boards
9	Drop-Offs In Work Zones
10	Business Entrance Temporary Asphalt Separator
11	Identifications-Channelizing and Lighting Devices
12	Pavement Markings

PREFACE

All projects and works on highways, roads and streets shall have a traffic control plan. All work shall be executed under the established plan and Department approved procedures. This index contains information specific to the Federal and State guidelines and standards for the preparation of traffic control plans and for the execution of traffic control in work zones, for construction and maintenance operations and utility work on highways, roads and streets on the State Highway System. Certain requirements in this Index are based on the high volume nature of State Highways. For highways, roads and streets off the State Highway System, the local agency (City/County) having jurisdiction may adopt requirements based on the minimum requirements provided in the MUTCD.

Index No. 600 provides Department policy and standards. Changes are only to be made thru Department approved procedures. Index Nos. 601 thru 670 provide typical applications for various situations. Modification can be made to these Indexes as long as the changes comply with the MUTCD and Department Design Standards.

The sign spacing shown on the Indexes are typical (recommended) distances. These distances may be increased or decreased based on field conditions, in order to avoid conflicts or to improve site specific traffic controls.

























Except for emergencies, any road closure on State Highway System shall comply with Section 335.15, F.S.

MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES

The Florida Department of Transportation has adopted the "Manual On Uniform Traffic Control Devices For Streets And Highways" (MUTCD) and subsequent revisions and addendums, as published by the U.S. Department of Transportation, Federal Highway Administration, for mandatory use on the State Maintained Highway System whenever there exists the need for construction, maintenance operations or utility work.

SYMBOLS

The symbols shown are found in the FDOT site menu under Traffic Control cell library on the CADD system. Symbols assigned to the 600 series Design Standards and applicable to traffic control plans, unless otherwise identified in the plans, are as follows:

-  Work Area, Hazard Or Work Phase (Any pattern within a boundary)
-  Sign With 18" x 18" (Min.) Orange Flag And Type B Light
-  Channelizing Device
-  Pedestrian Longitudinal Channelizing Device (LCD)
-  Type III Barricade
-  Work Zone Sign
-  Flagger
-  Automated Flagger Assistance Device (AFAD)
-  Traffic Signal
-  Advance Warning Arrow Board
-  Portable Signal
-  Crash Cushion
-  Stop Bar
-  Work Vehicle With Flashing Beacon
-  Shadow (S) Or Advance Warning (AW) Vehicle With Advance Warning Arrow Board And Warning Sign
-  Truck/Trailer Mounted Attenuator (TMA)
-  Orange Flag For TCZ Signs
-  Type B Light For TCZ Signs
-  Law Enforcement Officer
-  Portable Regulatory Sign
-  Radar Speed Display Unit
-  Portable Changeable (Variable) Message Sign
-  Lane Identification + Direction Of Traffic
-  Traffic Control Officer

LAST REVISION 12/15/14	REVISION	DESCRIPTION: Added the Automated Flagger Assistance Device (AFAD) to the Symbols; Deleted Sheet #4; Renumbered Index.
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FLAGGER CONTROL

Where flaggers are used, a FLAGGER symbol or legend sign must replace the WORKERS symbol or legend sign.

The flagger must be clearly visible to approaching traffic for a distance sufficient to permit proper response by the motorist to the flagging instructions, and to permit traffic to reduce speed or to stop as required before entering the work site. Flaggers shall be positioned to maintain maximum color contrast between the flagger's high-visibility safety apparel and equipment and the work area background.

Hand-Signaling Devices

STOP/SLOW paddles are the primary hand-signaling device. The STOP/SLOW paddle shall have an octagonal shape on a rigid handle. If the STOP/SLOW paddle is placed on a rigid staff, the minimum length of the staff, measured from the bottom of the paddle to the end of the staff that rests on the ground, should be 7 ft. STOP/SLOW paddles shall be at least 24 inches wide with letters at least 6 inches high and should be fabricated from light semirigid material. The background of the STOP face shall be red with white letters and border. The background of the SLOW face shall be orange with black letters and border. When used at night-time, the STOP/SLOW paddle shall be retroreflectorized.

Flag use is limited to immediate emergencies, intersections, and when working on the centerline or shared left turn lanes where two (2) flaggers are required and there is opposing traffic in the adjacent lanes. Flags, when used, shall be a minimum of 24 inches square, made of a good grade of red material, and securely fastened to a staff that is approximately 36 inches in length. When used at nighttime, flags shall be retroreflectorized red.

Flashlight, lantern or other lighted signal that will display a red warning light shall be used at night.

Flagger Stations

Flagger stations shall be located far enough in advance of the work space so that approaching road users will have sufficient distance to stop before entering the work space. When used at nighttime, the flagger station shall be illuminated.

SURVEY WORK ZONES

The SURVEY CREW AHEAD symbol or legend sign shall be the principal Advance Warning Sign used for Traffic Control Through Survey Work Zones and may replace the ROAD WORK AHEAD sign when lane closures occur, at the discretion of the Party Chief. Dual orange flags shall be used at all times to enhance the SURVEY CREW AHEAD sign, even with mesh signs.

When Traffic Control Through Work Zones is being used for survey purposes only, the END ROAD WORK sign as called for on certain 600 Series Indexes should be omitted.

Survey Between Active Traffic Lanes or Shared Left Turn Lanes

The following provisions apply to Main Roadway Traffic Control Work Zones. These provisions must be adjusted by the Party Chief to fit roadway and traffic conditions when the Survey Work Zone includes intersections.

- (A) A STAY IN YOUR LANE (MOT-1-06) sign shall be added to the Advance Warning Sign sequence as the second most immediate sign from the work area.
- (B) Elevation Surveys-Cones may be used at the discretion of the Party Chief to protect prism holder and flagger(s). Cones, if used, may be placed at up to 50' intervals along the break line throughout the work zone.
- (C) Horizontal Control-With traffic flow in the same direction, cones shall be used to protect the backsight tripod and/or instrument. Cones shall be placed at the equipment, and up to 50' intervals for at least 200' towards the flow of traffic.
- (D) Horizontal Control-With traffic flow in opposite directions, cones shall be used to protect the backsight tripod and/or instrument. Cones shall be placed at the equipment, and up to 50' intervals for at least 200' in both directions towards the flow of traffic.

SIGNS

SIGN MATERIALS

Mesh signs may be used only for Daylight Operations.

Vinyl signs may be used for Day or Night Operations not to exceed 1 day except as noted in the standards.

Rigid or Lightweight sign panels may be used in accordance with the vendor drawing for the sign stand to which they are attached.

INTERSECTING ROAD SIGNING

Signing for the control of traffic entering and leaving work zones by way of intersecting crossroads shall be adequate to make drivers aware of work zone conditions. When Work operations exceed 60 minutes, place the ROAD WORK AHEAD sign on the side street entering the work zone.

ADJOINING AND/OR OVERLAPPING WORK ZONE SIGNING

Adjoining work zones may not have sufficient spacing for standard placement of signs and other traffic control devices in their advance warning areas or in some cases other areas within their traffic control zones. Where such restraints or conflicts occur or are likely to occur, one of the following methods will be employed to avoid conflicts and prevent conditions that could lead to misunderstanding on the part of the traveling public as to the intended travel way by the traffic control procedure applied:

- (A) For scheduled projects the engineer in responsible charge of project design will resolve anticipated work zone conflicts during the development of the project traffic control plan. This may entail revision of plans on preceding projects and coordination of plans on concurrent projects.
- (B) Unanticipated conflicts arising between adjoining in progress highway construction projects will be resolved by the Resident Engineer for projects under his residency, and, by the District Construction Engineer for in progress projects under adjoining residencies.
- (C) The District Maintenance Engineer will resolve anticipated and occurring conflicts within scheduled maintenance operations.
- (D) The Unit Maintenance Engineer will resolve conflicts that occur within routine maintenance works; between routine maintenance work, unscheduled work and/or permitted work; and, between unit controlled maintenance works and highway construction projects.

SIGN COVERING AND INTERMITTENT WORK STOPPAGE SIGNING

Existing or temporary traffic control signs that are no longer applicable or are inconsistent with intended travel paths shall be removed or fully covered.

Sign blanks or other available coverings must completely cover the existing sign. Rigid sign coverings shall be the same size as the sign it is covering, and bolted in a manner to prevent movement.

Sign covers are incidental to work operations and are not paid for separately.

SIGNING FOR DETOURS, LANE SHIFTS AND DIVERSIONS

Detours should be signed clearly over their entire length so that motorists can easily determine how to return to the original roadway. The reverse curve (W1-4) warning sign should be used for the advanced warning for a lane shift. A diversion should be signed as a lane shift.

EXTENDED DISTANCE ADVANCE WARNING SIGN

Advance Warning Signs shall be used at extended distance of one-half mile or more when limited sight distance or the nature of the obstruction may require a motorist to bring their vehicle to a stop. Extended distance Advanced Warning Signs may be required on any type roadway, but particularly be considered on multilane divided highways where vehicle speed is generally in the higher range (45 MPH or more).

UTILITY WORK AHEAD SIGN

The UTILITY WORK AHEAD (W21-7) sign may be used as an alternate to the ROAD WORK AHEAD or the ROAD WORK XX FT (W20-1) sign for utility operations on or adjacent to a highway.

LENGTH OF ROAD WORK SIGN

The length of road work sign (G20-1) bearing the legend ROAD WORK NEXT _____ MILES is required for all projects of more than 2 miles in length. The number of miles entered should be rounded up to the nearest mile. The sign shall be located at begin construction points.

SPEEDING FINES DOUBLED WHEN WORKERS PRESENT SIGN

The SPEEDING FINES DOUBLED WHEN WORKERS PRESENT sign should be installed on all projects, but may be omitted if the work operation is less than 1 day. The placement should be 500 feet beyond the ROAD WORK AHEAD sign or midway to the next sign whichever is less.

GROOVED PAVEMENT AHEAD SIGN

The GROOVED PAVEMENT AHEAD sign is required 500 feet in advance of a milled or grooved surface open to traffic. The W8-15P placard shall be used in conjunction with the GROOVED PAVEMENT AHEAD sign.


END ROAD WORK SIGN

The END ROAD WORK sign (G20-2) should be installed on all projects, but may be omitted where the work operation is less than 1 day. The sign should be placed approximately 500 feet beyond the end of a construction or maintenance project unless other distance is called for in the plans. When other Construction or Maintenance Operations occur within 1 mile this sign should be omitted and signing coordinated in accordance with Index No. 600, ADJOINING AND/OR OVERLAPPING WORK ZONE SIGNING.

PROJECT INFORMATION SIGN

The Project information sign shall be installed when called for in the plans.

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LAST REVISION 12/15/14	REVISION	DESCRIPTION: Deleted Sheet #4; Renumbered Index.	 2015 DESIGN STANDARDS	GENERAL INFORMATION FOR TRAFFIC CONTROL THROUGH WORK ZONES	INDEX NO. 600	SHEET NO. 4 of 12
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GENERAL NOTES:

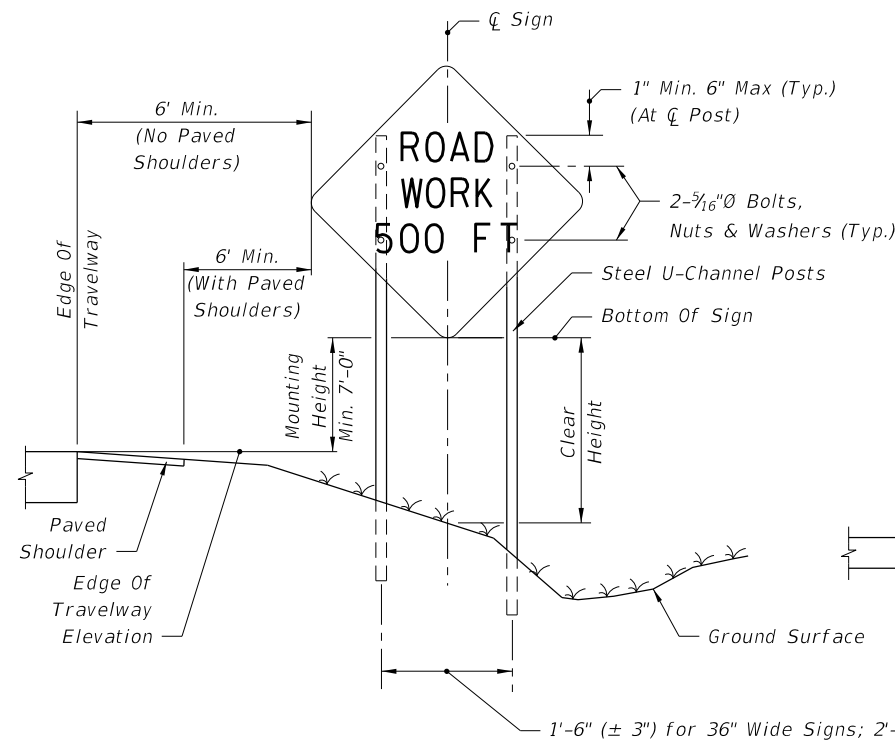
1. All signs shall be post mounted when work operations exceed one day except for:
 - a. Road closure signs mounted in accordance with the vendor drawing for the Type III Barricade shown on the APL.
 - b. Pedestrian advanced warning or regulatory signs mounted on sign supports in accordance with the vendor drawing shown on the APL.
 - c. Median barrier mounted signs per Index 11871.

TEMPORARY SIGN SUPPORT NOTE:

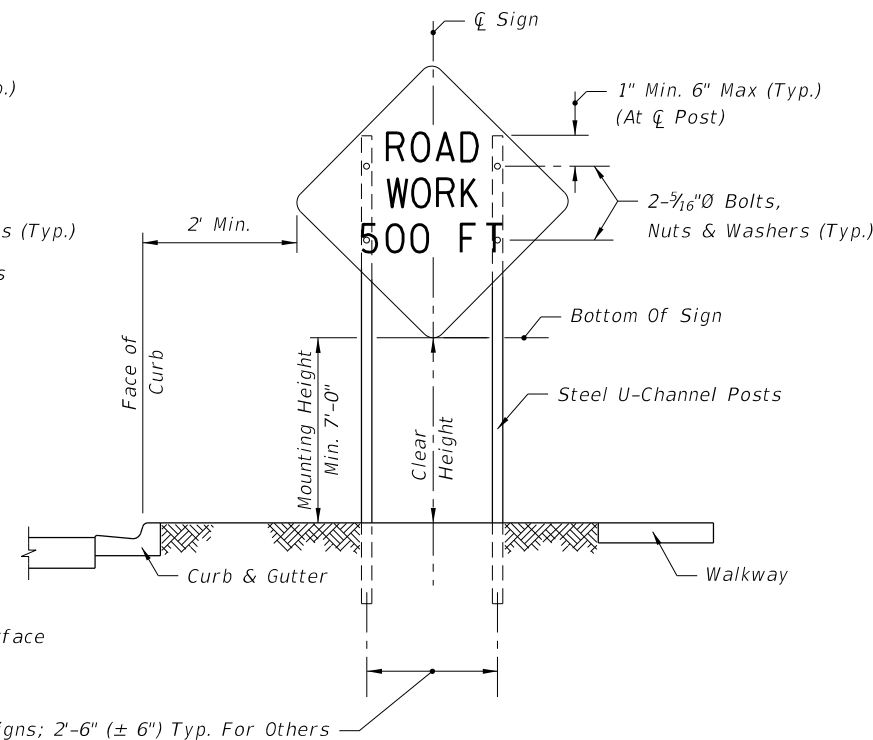
1. Signs mounted on temporary supports or barricades, and barricade/sign combination shall be crashworthy in accordance with NCHRP 350 requirements and included on the Approved Products List (APL).

POST MOUNTED SIGN NOTES:

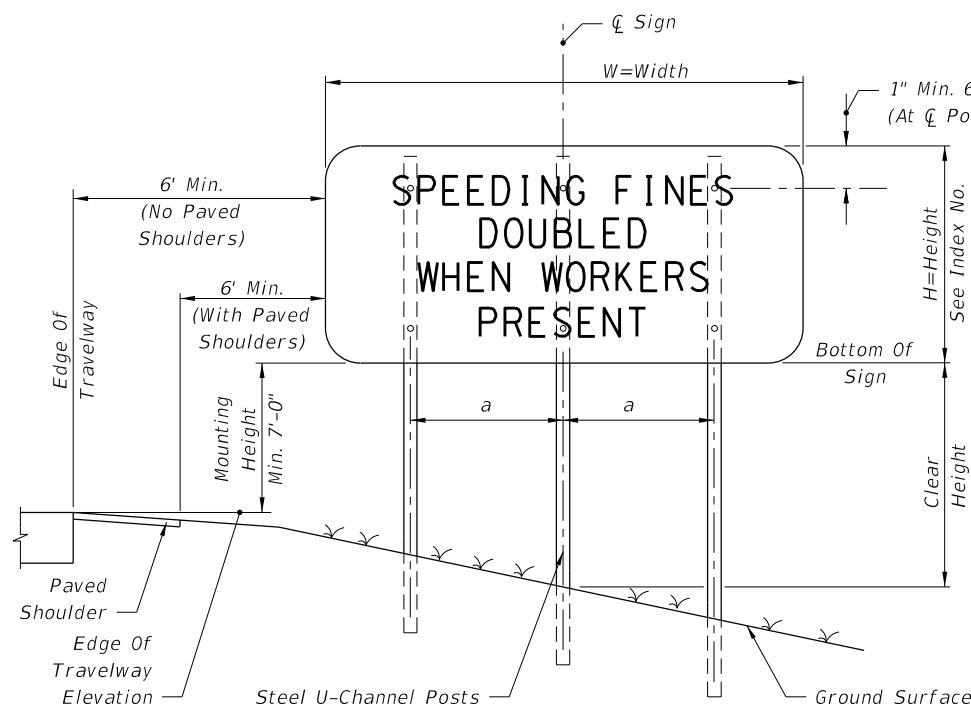
1. Use only approved systems listed on the Department's Approved Products List (APL).
2. Manufacturers seeking approval of U-Channel and steel square tube sign support assemblies for inclusion on the Approved Products List (APL) must submit a APL application, design calculations (for square tube only), and detailed drawings showing the product meets all the requirements of this Index.
3. Provide 3 lb/ft Steel U-Channel Posts with a minimum section modulus of 0.43 in³ for 60 ksi steel, a minimum section modulus of 0.37 in³ for 70 ksi steel, or a minimum section modulus of 0.34 in³ for 80 ksi steel.
4. Provide 4 lb/ft Steel U-Channel Posts with a minimum section modulus of 0.56 in³ for 60 ksi steel, or a minimum section modulus of 0.47 in³ for 70 ksi or 80 ksi steel.
5. U-channel posts shall conform with ASTM A 499, Grade 60, or ASTM A 576, Grade 1080 (with a minimum yield strength of 60 ksi). Square tube posts shall conform with ASTM A 653, Grade 50, or ASTM A 1011, Grade 50.
6. Sign attachment bolts, washers, nuts and spacers shall conform with ASTM A307 or A 36.
7. For diamond warning signs with supplement plaque (up to 5 ft² in area), use 4 lb/ft posts for up to 10 ft Clear Height (measure to the bottom of diamond warning sign).
8. Install 4 lb/ft Steel U-Channel Posts with approved breakaway splice in accordance with the manufacturer's detail shown on the APL.
9. The contractor may install 3 lb/ft Steel U-Channel Posts with approved breakaway splice in accordance with the manufacturer's detail shown on the APL.
10. Install all posts plumb.
11. The contractor may set posts in preformed holes to the specified depth with suitable backfill tamped securely on all sides, or drive 3 lb/ft sign posts and any size base post in accordance with the manufacturer's detail shown on the APL.



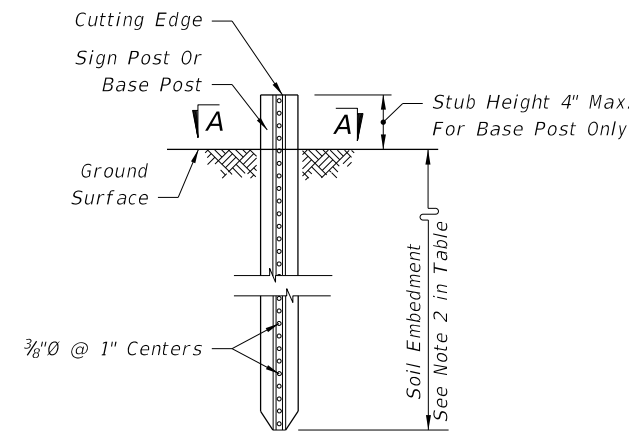
**2 POST SIGN SUPPORT MOUNTING DETAILS
(SINGLE POST SIMILAR)
RURAL**



**2 POST SIGN SUPPORT MOUNTING DETAILS
(SINGLE POST SIMILAR)
URBAN**



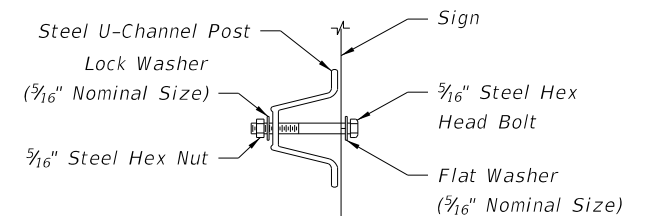
3 POST SIGN SUPPORT MOUNTING DETAILS
Where $W = 48"$: $a = 1' - 4\frac{1}{2}" (\pm 1")$
 $W = 60"$: $a = 1' - 9" (\pm 1")$
 $W = 72"$: $a = 2' - 1" (\pm 1")$
WORK ZONE SIGN SUPPORTS



TYPICAL FOUNDATION DETAIL
See APL for post, splice and connection details.
No bolts installed closer than 1" to cutting edge.



**SECTION A-A
(SCHEMATIC)**



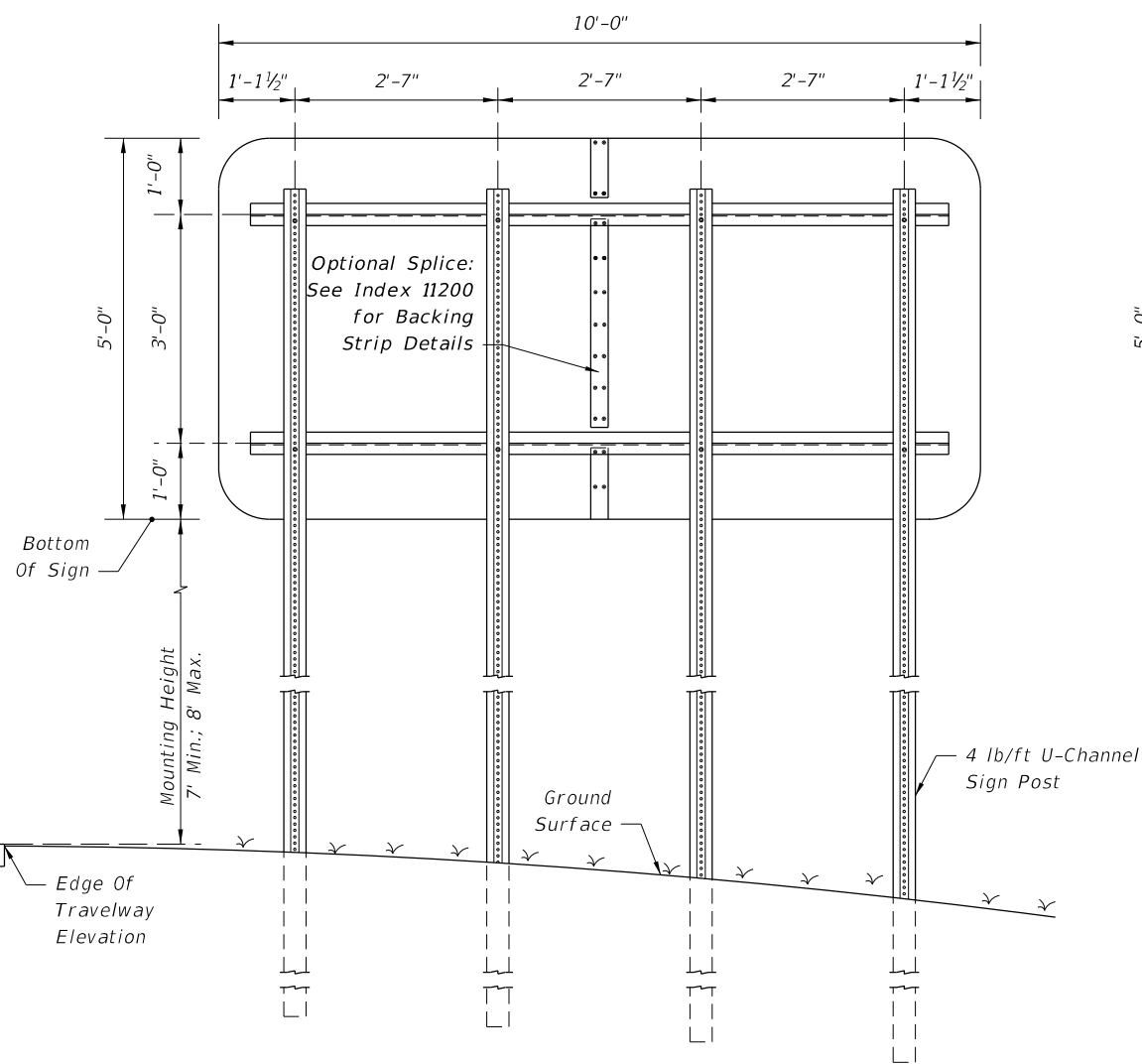
**SIGN ATTACHMENT DETAIL
(WITHOUT Z-BRACKET)**

POST AND FOUNDATION TABLE FOR WORK ZONE SIGNS		
SIGN SHAPE	SIGN SIZE (inches)	NUMBER OF STEEL U CHANNEL POSTS
Octagon	30x30	1
	36x36x36	1
	48x48x48	1
Triangle	48x48x48	1
	60x60x60	2
	24x18	1
Rectangle (W x H)	24x30	1
	30x24	1
	36x18	1
	36x24	1
	48x18	1
	48x24	1
	36x48	2
	48x30	2
	48x36	2
	54x36	2
	48x60	3
	60x54	3
	72x48	3
120x60*	4*	
Square	30x30	1
	36x36	2
	48x48	2
Diamond (See Note 6)	48x48	2
Circle	360	2

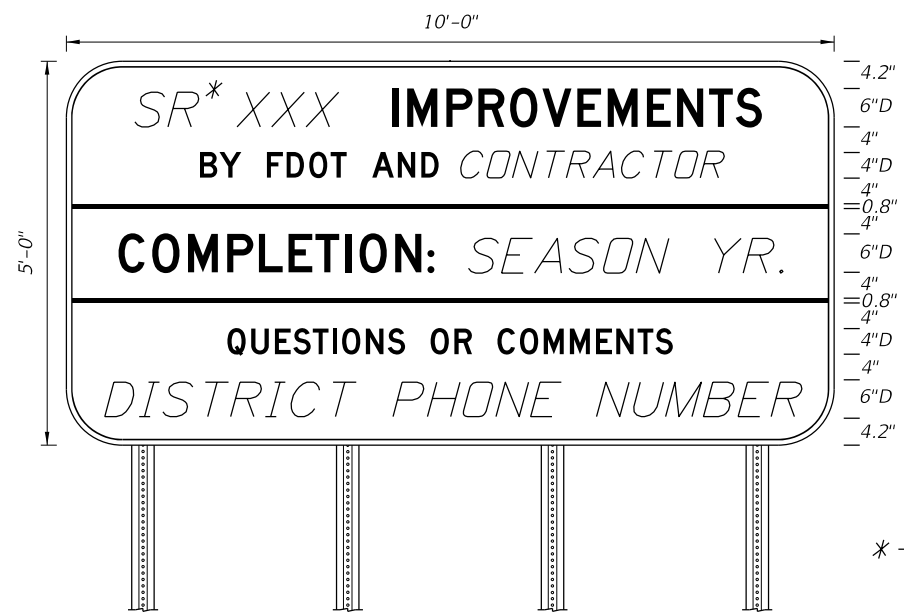
Notes For Table:

1. Use 3 lb/ft posts for Clear Height up to 10' and 4 lb/ft posts for Clear Height up to 12'.
- * Use 4 lb/ft U-channel sign post with a mounting height of 7' min. and 8' max. Attach sign panel using Z-bracket detail on Sheet 7.
2. Minimum foundation depth is 4.0' for 3 lb/ft posts and 4.5' for 4 lb/ft posts.
3. For both 3 lb/ft and 4 lb/ft base or sign posts installed in rock, a minimum cumulative depth of 2' of rock layer is required.
4. The soil plate as shown on the APL vendor drawing is not required for base posts or sign posts installed in existing rock (as defined in note 3), asphalt roadway, shoulder pavement or soil under sidewalk.

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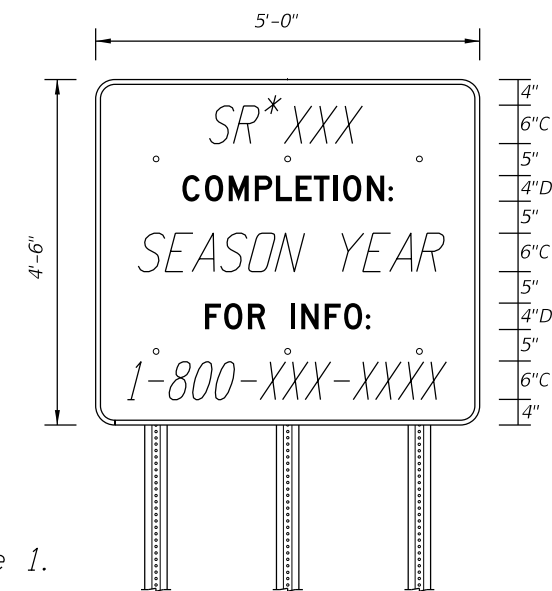


4 POST SIGN SUPPORT MOUNTING DETAIL



BORDER 10'-0" x 5'-0"
 R=8" 8" Radii
 TH=0.25" 4" and 6" series D Legend
 IN=0.75" Blue Background
 White Legend and Border

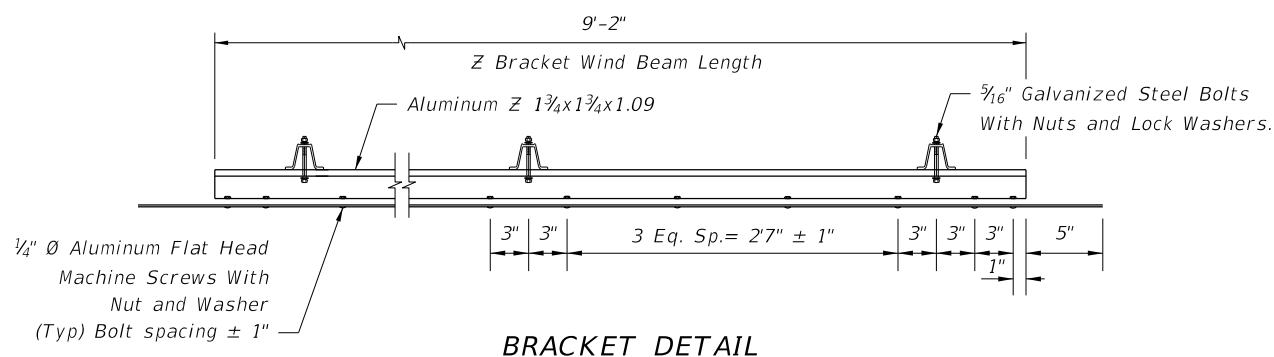
PROJECT INFORMATION SIGN DETAIL
 50 MPH OR GREATER
 Use SIGN ATTACHMENT DETAIL
 (WITH Z-BRACKET).



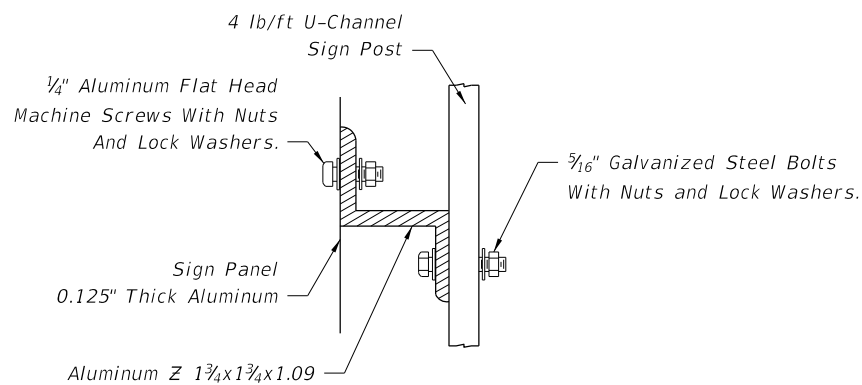
BORDER 5'-0" x 4'-6"
 R=3" 3" Radii
 TH=0.25" 4" series D Legend and
 6" series C Legend
 IN=0.75" Blue Background
 White Legend and Border

PROJECT INFORMATION SIGN DETAIL
 45 MPH OR LESS
 Use SIGN ATTACHMENT DETAIL
 (WITHOUT Z-BRACKET)
 On Sheet 6.

* - See Note 1.



BRACKET DETAIL



SIGN ATTACHMENT DETAIL
 (WITH Z-BRACKET)

PROJECT INFORMATION SIGN NOTES:

1. Road designation should be the most common designation (ie. I-Interstate, SR-State Road or US.)
2. See sheet 6 for POST AND FOUNDATIONS TABLE FOR WORK ZONE SIGNS.
3. See sheet 6 for TYPICAL FOUNDATION DETAILS.
4. Payment for Project Information Sign shall be included in Lump Sum MOT.

PROJECT INFORMATION SIGN

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E5-2 B/O	E5-2a B/O	G20-1 B/O	G20-2 B/O	G20-4 B/O	M4-8 B/O	M4-8A B/O	M4-9L B/O	M4-9R B/O	M4-10L O/B	M4-10R O/B	OM-3R B/Y	R1-1 W/R	R1-2 RW/R	R2-1 B/W	R4-1 B/W	R4-2 B/W	R4-5 B/W	R4-7 B/W	R4-8 B/W	R4-7AL B/W
R4-7AR B/W	R4-7BL B/W	R4-7BR B/W	R5-1 WR/W	R9-8 B/W	R9-9 B/W	R9-10 B/W	R9-11 B/W	R9-11a B/W	R11-2 B/W	W1-1R B/O	W1-2R B/O	W1-3R B/O	W1-4R B/O	W1-4b B/O	W1-4c B/O	W1-6 B/O	W1-7 B/O	W1-8 B/O	W3-1 RB/O	W3-2 RB/O
W3-3 B(RYG)/O	W3-4 B/O	W3-5 B/O	W4-1 B/O	W4-2 B/O	W5-1 B/O	W5-2 B/O	W5-3 B/O	W6-1 B/O	W6-2 B/O	W6-3 B/O	W8-1 B/O	W8-2 B/O	W8-3 B/O	W8-4 B/O	W8-5 B/O	W8-6 B/O	W8-7 B/O	W8-8 B/O	W8-9 B/O	W8-9a B/O
W8-11 B/O	W9-1L B/O	W9-1R B/O	W9-2L B/O	W9-2R B/O	W10-1 B/Y	W11-2 B/O	W12-1 B/O	W12-2 B/O	W13-1 B/O	W20-1A B/O	W20-1B B/O	W20-1C B/O	W20-1D B/O	W20-1E B/O	W20-1F B/O	W20-2A B/O	W20-2B B/O	W20-2C B/O	W20-2D B/O	W20-2E B/O
W20-3 B/O	W20-4 B/O	W20-5a B/O	W20-5L B/O	W20-5R B/O	W20-5C B/O	W20-7A B/O	W20-7 B/O	W21-1A B/O	W21-1 B/O	W21-5 B/O	W21-5a B/O	W21-6 B/O	W21-7 B/O	W16-7P B/O						
W22-1 B/O	W22-2 B/O	W22-3 B/O																		
MOT-1-06 B/O	MOT-4-06 B/O	MOT-5-06 B/O	MOT-7-06 B/O	MOT-8-06 B/O	MOT-9-06 B/O	MOT-10-06 B/O	MOT-11-06 BLUE/W	MOT-12-06R B/W	MOT-12-06L B/W	MOT-13-06 (Limited access facilities)	MOT-14-06 (All other facilities)	MOT-15-06 B/O	MOT-16-06 B/O	MOT-17-06 B/O	MOT-18-10 B/O	W8-15P B/O				

- Notes:**
- The size of diamond shaped Temporary Traffic Control (TTC) warning signs shall be a minimum of 48" X 48".
 - Fluorescent orange shall be used for all orange colored work zone signs.
 - When standard orange flags or flashing warning lights are used in conjunction with signs, they shall not block the sign face.
 - The sign shields, symbols and messages contained on this sheet are provided for ready reference to those signs used in the development of the 600 series Design Standards and are commonly used in the development of traffic control plans. For additional signs and sign detail information refer to the STANDARD HIGHWAY SIGNS MANUAL as specified in the MUTCD. Special signs for traffic control plans will be as approved by the State Traffic Plans Engineer. The sign codes shown on this sheet are for the purpose of identifying cell names found in the Traffic Control Cell Library (TCZ.Cel). The STANDARD HIGHWAY SIGNS MANUAL should be referenced for the official sign codes for use in the development of traffic control plans. See Index No. 17355 for MOT sign details.

COLOR CODES
 Legend and/or Symbol Background

O-Orange (Reflectorized)	R-Red (Reflectorized)
B-Black (Non-Reflectorized)	Y-Yellow (Reflectorized)
W-White (Reflectorized)	G-Green (Reflectorized)

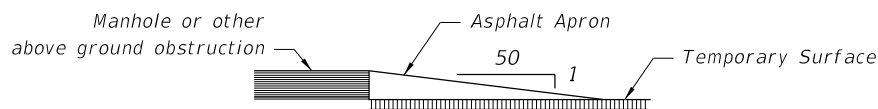
COMMONLY USED WARNING AND REGULATORY SIGNS IN WORK ZONES

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MANHOLES/CROSSWALKS/JOINTS

Manholes extending 1" or more above the travel lane and crosswalks having an uneven surface greater than 1/4" shall have a temporary asphalt apron constructed as shown in the diagram below.

All transverse joints that have a difference in elevation of 1" or more shall have a temporary asphalt apron constructed as shown in the diagram below.



The apron is to be removed prior to constructing the next lift of asphalt. The cost of the temporary asphalt shall be included in the contract unit price for Maintenance of Traffic, LS.

TRUCK/TRAILER-MOUNTED ATTENUATORS

Truck/Trailer-mounted attenuators (TMA) can be used for moving operations and short-term stationary operations. For moving operations, see Index Nos. 607 and 619. For short-term, stationary operations, see Part VI of the MUTCD.

REMOVING PAVEMENT MARKINGS

Existing pavement markings that conflict with temporary work zone delineation shall be removed by any method approved by the Engineer, where operations exceed one daylight period. Painting over existing pavement markings with black paint or spraying with asphalt shall not be accepted as a substitute for removal or obliteration. Full pavement width overlays of either a structural or friction course are a positive means to achieve obliteration.

SIGNALS

Existing traffic signal operations that require modification in order to carry out work zone traffic control shall be included in the TCP and be approved by the District Traffic Operations Engineer.

Maintain all existing actuated or traffic responsive mode signal operations for main and side street movements for the duration of the Contract and require restoration of any loss of detection within 12 hours. The contractor shall select only detection technology listed on the Department's Approved Products List (APL) and approved by the Engineer to restore detection capabilities.

CHANNELIZING AND LIGHTING DEVICES

Channelizing and lighting devices for work zone traffic control shall be as prescribed in Part VI of the MUTCD, subject to supplemental revisions provided in the contract documents and Index 600 requirements.

CHANNELIZING AND LIGHTING DEVICE CONSISTENCY

Barricades, vertical panels, cones, tubular markers and drums shall not be intermixed within either the lateral transition or within the tangent alignment.

WARNING LIGHTS

Warning lights shall be in accordance with the MUTCD except for the application limitations stipulated below:

Flashing

Type A Low Intensity Flashing Warning Lights are to be mounted on barricades, drums, vertical panels or advance warning signs (except as noted below) and are intended to continually warn drivers that they are approaching or proceeding in a hazardous area. Flashing lights shall not be used to delineate the intended path of travel, and not placed with spacings that will form a continuous line to the drivers eye. The Type A light will be used to mark obstructions that are located adjacent to or in the intended travel way. Type A lights shall not be used in conjunction with the first advance warning sign nor the second such sign when used.

For post-mounted signs, Type B High Intensity Flashing Warning Lights shall be mounted on the first advanced warning sign and on the first and second advanced warning sign where two or more signs are used; this applies to all approaches to any work zone. The light shall be mounted on the channel post or on the upper edge of the sign nearest the traffic.

Type B High Intensity Flashing Warning Lights are not to be placed on temporary portable sign supports.

Steady-Burn

Type C Steady-Burn Lights are to be mounted on barricades, drums, or vertical panels and used in combination with those devices to delineate the travel way on lane closures, lane changes, diversion curves and other similar conditions. Steady-burn lights are intended to be placed in a line to delineate the travel way through and around obstructions in the transition, buffer, work and termination areas of the traffic control zone. Their intended purpose is not for warning drivers that they are approaching or proceeding through a hazardous area.

STANDARD ORANGE FLAG

For post-mounted signs a standard orange flag 18"x 18" (min.) shall be mounted on the first advanced warning sign and on the first and second advanced warning sign where two or more signs are used; this applies to all approaches to any work zone. The flag shall be mounted on the channel post or on the upper edge of the sign furthest from traffic.

Standard orange flags are not to be placed on temporary portable sign supports except to enhance the SURVEY CREW AHEAD sign where dual orange flags shall be used at all times.

PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS)

The PCMS can be used to:

1. Supplement standard signing in construction or maintenance work zones.
2. Reinforce static advance warning messages.
3. Provide motorists with updated guidance information.

PCMS should be placed approx. 500 to 800 feet in advance of the work zone conflicts or 0.5 to 2 miles in advance of complex traffic control schemes which require new and/or unusual traffic maneuvers.

If PCMS are to be used at night, the intensity of the flashers shall be reduced during darkness when lower intensities are desirable.

For additional information refer to the FDOT Plans Preparation Manual, Volume I, Chapter 10.

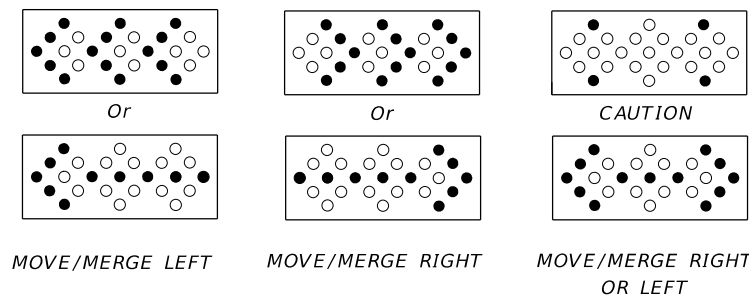
ADVANCE WARNING ARROW BOARDS

An arrow board in the arrow or chevron mode shall be used only for stationary or moving lane closures on multilane roadways.

For shoulder work, blocking the shoulder, for roadside work near the shoulder, or for temporarily closing one lane on a two-lane, two-way roadway, an arrow board shall be used only in the caution mode.


A single arrow board shall not be used to merge traffic laterally more than one lane. When arrow boards are used to close multiple lanes, a single board shall be used at the merging taper for each closed lane.

When Advance Warning Arrow Boards are used at night, the intensity of the flashers shall be reduced during darkness when lower intensities are desirable.



- Minimum Required Lamps
- Additional Lamps Allowed

MODES

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DROP-OFF CONDITION NOTES

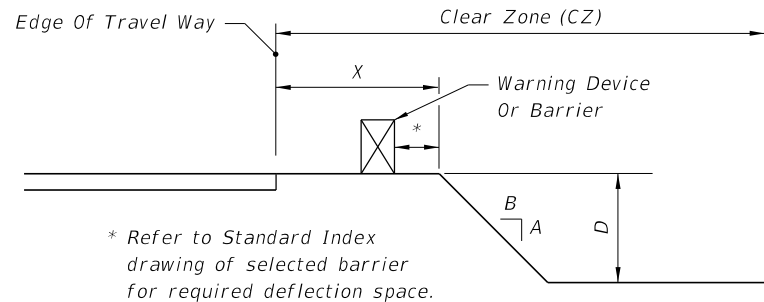
1. These conditions and treatments can be applied only in work areas that fall within a properly signed work zone.
2. A drop-off is defined as a drop in elevation, parallel to the adjacent travel lanes, greater than 3" with slopes (A:B) steeper than 1:4. When drop-offs occur within the clear zone due to construction or maintenance activities, protection devices are required. See Table 1.
3. Distance X is to be the maximum practical under project conditions.
4. For Clear Zone widths, see Index No. 600 sheet 3.
5. Distance from the travel lane to the barrier or warning device should be maximum practical for project conditions.
6. For Conditions 1 and 3 only, any drop-off condition that is created and restored within the same work period will not be subject to the use of barriers; however, warning devices will be required.
7. When permanent curb heights are $\geq 6"$, no warning device will be required. For curb heights $< 6"$, see Table 1.
8. Where a barrier is specified, any of the types below may be used in accordance with the applicable Index:

Index No.	Description
400	Temporary guardrail and end anchorage
412	Temporary low profile barrier
414	Type K temporary concrete barrier
415	Temporary concrete barrier

For other types of temporary barriers see the APL

Condition	X (ft)	D (in.)	Device Required
1	0-12	> 3	Barrier (See Note 6)
2	12-CZ	> 3 to ≤ 5	Warning Device
3	0-CZ	> 5	Barrier (See Note 6)
4	Removal of Bridge/Retaining Wall Barrier		Barrier
5	Removal of portions of Bridge Deck		Barrier

1. This Table is for all speeds.
2. See Drop-off Condition Notes.



* Refer to Standard Index drawing of selected barrier for required deflection space.

WARNING DEVICE NOTES

1. The following are defined as acceptable warning devices:
 - a. Vertical panel
 - b. Type I Or Type II barricades
 - c. Drum
 - d. Cone (where allowed)
 - e. Tubular marker (where allowed)
2. Warning device spacing shall be as shown in Table 2.

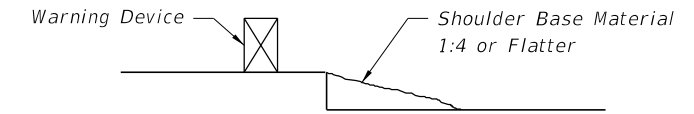
Speed (mph)	Max. Distance Between Devices (ft)			
	Cones or Tubular Markers		Type I or Type II Barricades or Vertical Panels or Drums	
	Taper	Tangent	Taper	Tangent
25	25	50	25	50
30 to 45	25	50	30	50
50 to 70	25	50	50	100

PEDESTRIAN AND/OR BICYCLIST WAY

DROP-OFF CONDITION NOTES

1. A pedestrian and/or bicyclist way drop-off is defined as:
 - a. a drop in elevation greater than 10 inches that is closer than 2 feet from the edge of the pedestrian or bicyclist way
 - b. a slope steeper than 1:2 that begins closer than 2 feet from the edge of the pedestrian or bicyclist way when the total drop-off is greater than 60 inches.
2. Any drop-off adjacent to a pedestrian or bicyclist way shall be protected with warning devices, temporary barrier wall or approved handrail.

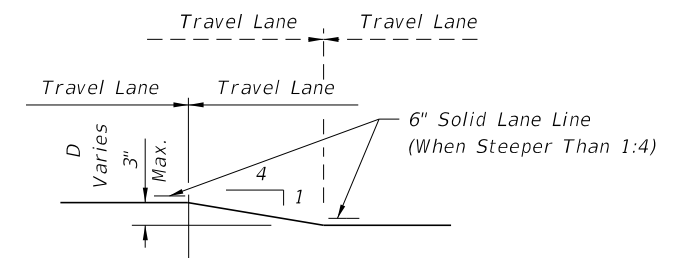
SHOULDER TREATMENT



NOTES

1. Shoulder treatment may be used in lieu of barrier. Warning devices are required.
2. Daily inspections shall be conducted to assure that no erosion, excessive slopes, rutting, or other adverse conditions exist. Any deficiencies shall be repaired immediately.
3. Compensation for the placement and removal of the material required for the shoulder treatment shall be included in the cost for Maintenance Of Traffic, LS. Use of shoulder treatment in lieu of a barrier is not eligible for CSIP consideration.

TRAVEL LANE TREATMENT FOR MILLING OR RESURFACING



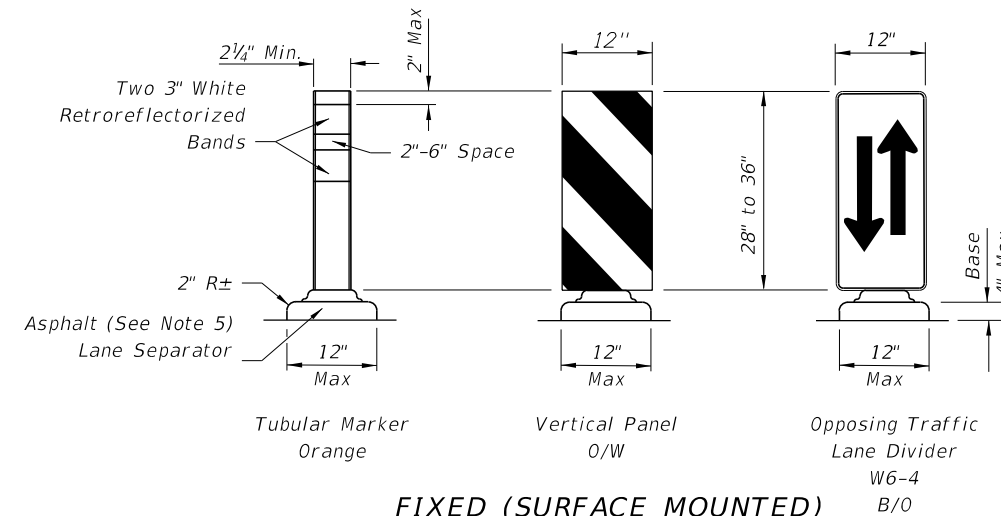
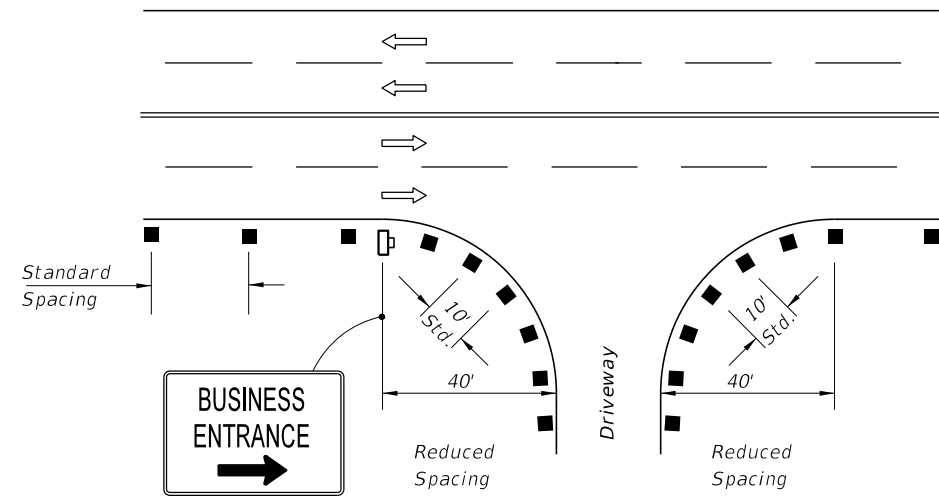
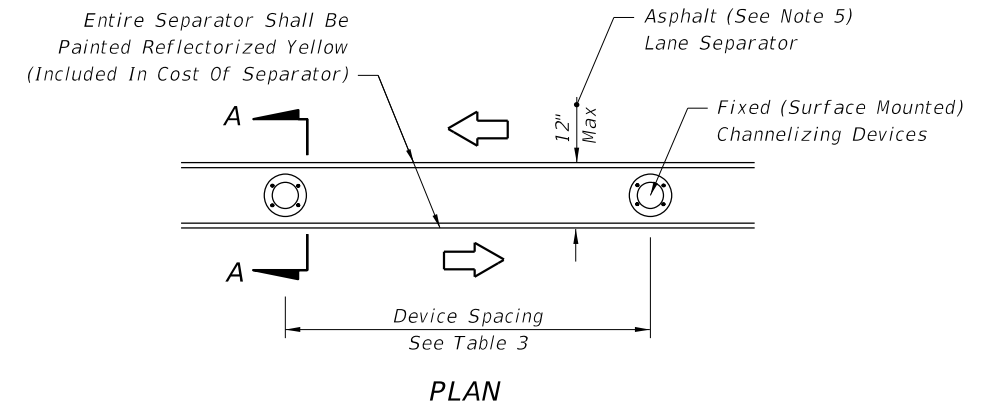
NOTES

1. This treatment applies to resurfacing or milling operations between adjacent travel lanes.
2. Whenever there is a difference in elevation between adjacent travel lanes, the W8-11 sign with "UNEVEN LANES" is required at intervals of 1/2 mile maximum.
3. If D is 1 1/2" or less, no treatment is required.
4. Treatment allowed only when D is 3" or less.
5. If the slope is steeper than 1:4 (not to be steeper than 1:1), the R4-1 and MOT-1-06 signs shall be used as a supplement to the W8-11; this condition should never exceed 3 miles in length.

DROPOFFS IN WORK ZONES

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Speed (mph)	Max. Distance Between Devices (ft.)			
	Tubular Markers		Vertical Panels or Opposing Traffic Lane Divider	
	Taper	Tangent	Taper	Tangent
25	25	50	25	50
30 to 45	25	50	30	50
50 to 70	25	50	50	100



FIXED (SURFACE MOUNTED)
CHANNELIZING DEVICES

SECTION AA

1. For single business entrances, place one 24" x 36" business sign for each driveway entrance affected. Signs shall show specific business names. Logos may be provided by business owners. Standard BUSINESS ENTRANCE sign in Index 17355 may be used when approved by the Engineer.
2. When several businesses share a common driveway entrance, place one 24" x 36" standard BUSINESS ENTRANCE sign according with Index 17355 at the common driveway entrance.
3. Channelizing devices shall be placed at a reduced spacing on each side of the driveway entrance, but shall not restrict sight distance for the driveway users.
4. Business entrance signs are intended to guide motorist to business entrances moved/modified or disturbed during construction projects. Business entrance signs are not required where there is minimal disruption to business driveways which is often the case with resurfacing type projects.

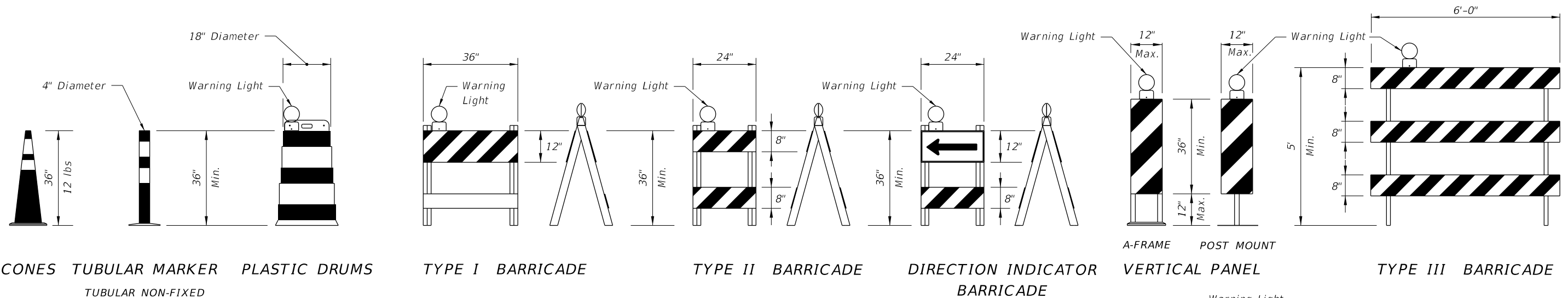
PLACEMENT OF BUSINESS ENTRANCE SIGNS AND
CHANNELIZING DEVICES AT BUSINESS ENTRANCE

1. Temporary lane separators shall be supplemented with any of the following approved fixed (surface mounted) channelizing devices: tubular markers, vertical panels, or opposing traffic lane divider panels. Opposing traffic lane divider panels (W6-4) shall only be used as center lane dividers to separate opposing vehicular traffic on a two-lane, two-way operation. Tubular Markers, Vertical Panels and Opposing Traffic Lane Divider panels shall not be intermixed within the limits where the temporary lane separator is used. The connection between the channelizing device and the temporary lane separator curb shall hold the channelizing device in a vertical position.
2. Reflectorized materials shall have a smooth sealed outer surface which will display the same approximate color day and night. Furnish channelizing devices having retroreflective sheeting meeting the requirements of Section 990.
3. 12" openings for drainage shall be constructed in the asphalt and portable temporary lane separator at a maximum spacing of 25' in areas with grades of 1% or less or 50' in areas with grades over 1% as directed by the Engineer.
4. Tapered ends shall be used at the beginning and end of each run of the temporary lane separator to form a gradual increase in height from the pavement level to the top of the temporary lane separator.
5. The Contractor has the option of using portable temporary lane separators containing fixed channelizing devices in lieu of the temporary asphalt separator and channelizing devices detailed on this sheet. The portable temporary lane separator shall come in portable sections that can be connected to maintain continuous alignment between the separate curb sections. Each temporary lane separator section shall be 36 inches to 48 inches in total length. Portable temporary lane separators shall duplicate the color of the pavement marking. Portable temporary lane separators shall be one of those listed on the Qualified Products List.
6. Any damage to existing pavement caused by the removal of temporary lane separator shall be satisfactorily repaired and the cost of such repairs are to be included in the cost of Maintenance of Traffic, LS.

TEMPORARY LANE SEPARATOR

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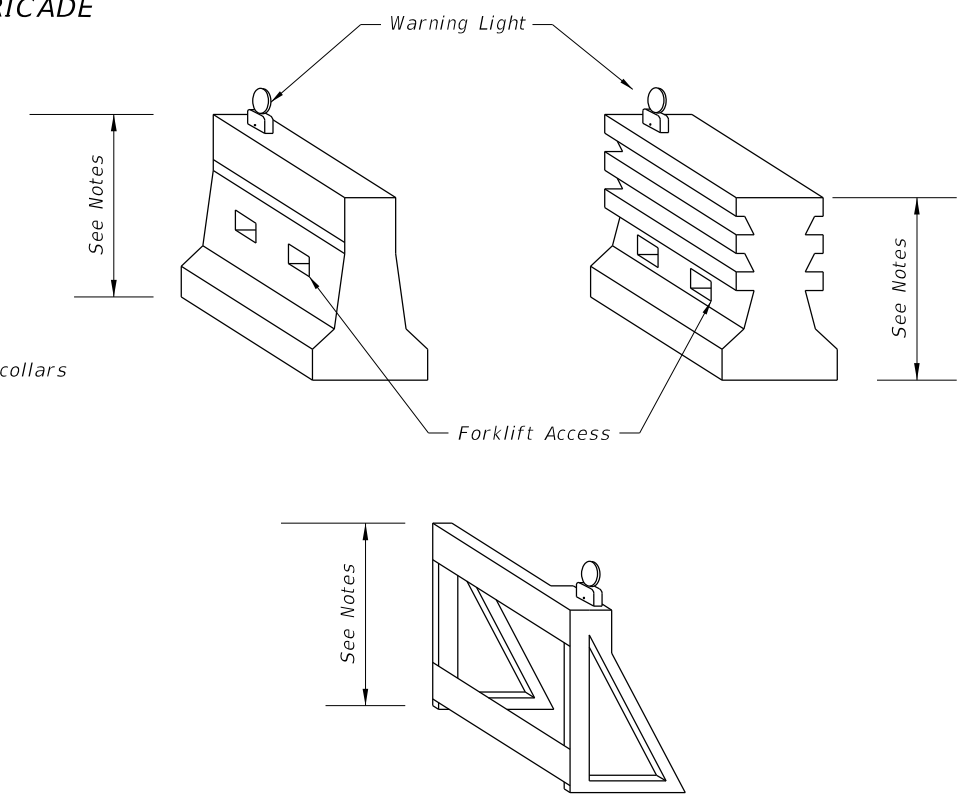


TUBULAR NON-FIXED
MARKER TO BE USED
DURING DAYLIGHT ONLY

CHANNELIZING AND LIGHTING DEVICE NOTES

- The details shown on this sheet are for the following purposes:
 - For ease of identification and
 - To provide information that supplements or supersedes that provided by the MUTCD.
- The Type III Barricade shall have a unit length of 6'-0" only. When barricades of greater lengths are required those lengths shall be in multiples of the 6'-0" unit.
- No sign panel should be mounted on any channelizing device unless the channelizing device/sign combination was found to be crashworthy and the sign panel is mounted in accordance with the vendor drawing for the channelizing device shown on the APL.
- During hours of darkness, warning lights shall be used on LCDs, drums, vertical panels, Type I, Type II, Type III, and direction indicator barricades in accordance with 'Warning Lights' in Index No. 600.
- Ballast shall not be placed on top rails or any striped rails or higher than 13" above the driving surface.
- The direction indicator barricade may be used in tapers and transitions where specific directional guidance to drivers is necessary. If used, direction indicator barricades shall be used in series to direct the driver through the transition and into the intended travel lane.
- The splicing of sheeting is not permitted on either channelizing devices or MOT signs.

- For rails less than 3'-0" long, 4" stripes shall be used.
- Cones shall:
 - Be used only in active work zones where workers are present.
 - Not exceed 2 miles in length of use at any one time.
 - Be reflectorized as per the MUTCD with Department approved reflective collars when used at night.
- Spacing for longitudinal channelizing devices when placed singly shall be the same as Type I or Type II barricades or drums.
- Vehicular longitudinal channelizing devices shall not exceed 36" in height. For vehicular longitudinal channelizing devices (LCDs) less than 32" in height, the LCD shall be supplemented with approved fixed (surface mounted) channelizing devices (tubular markers, vertical panels, etc.) along the run of the LCD, at the ends, at 50' centers on tangents, and 25' centers on radii. The cost of the fixed supplemented channelizing devices shall be included in the cost of the LCD. LCDs less than 32" in height shall not be used for speeds greater than 45 mph.
- For pedestrian longitudinal channelizing devices, the device shall have a minimum of 8" continuous detectable edging above the walkway. A gap not exceeding a height of 2" is allowed to facilitate drainage. The top surface of the device shall be a minimum height of 32" and have smooth connection points between the devices to facilitate hand trailing. The bottom and the top surface of the device shall be in the same vertical plane. If pedestrian drop-off protection is required, the device shall have a footprint or offset of at least 2', otherwise the device must be at least 42" in height above the walkway and be anchored or ballasted to withstand a 200 lb lateral point load at the top of the device.

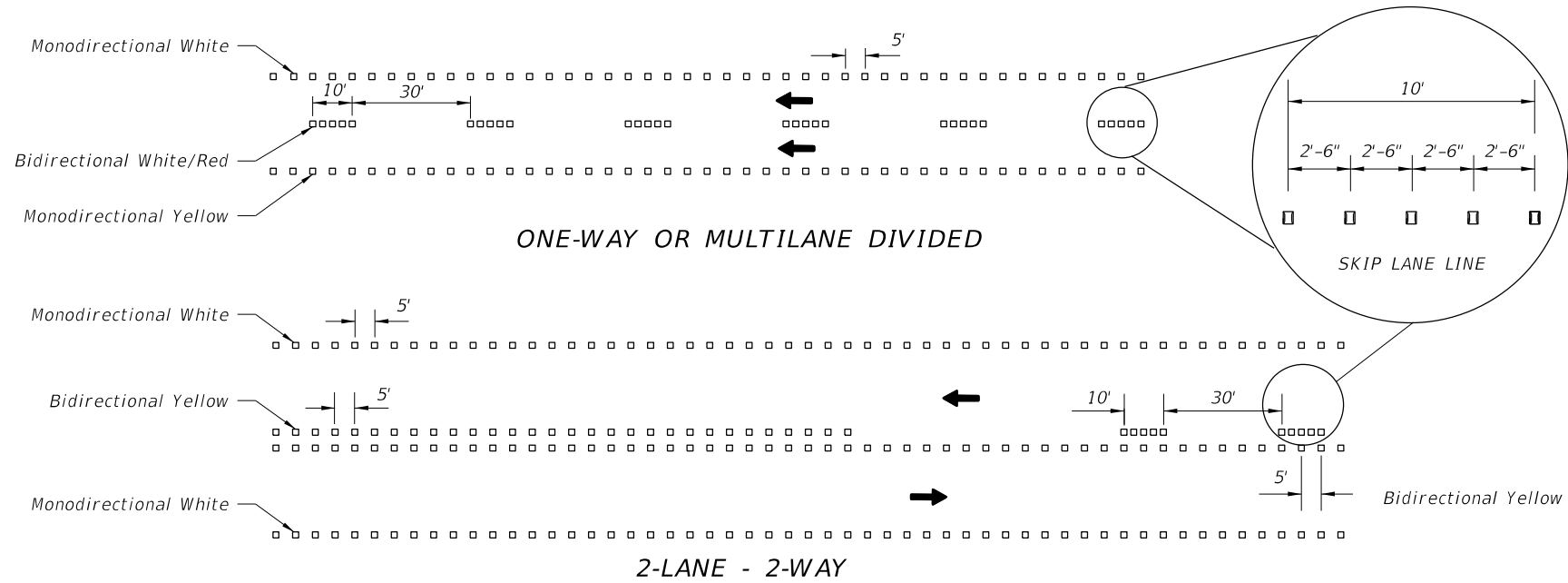


LONGITUDINAL CHANNELIZING DEVICE

IDENTIFICATIONS - CHANNELIZING AND LIGHTING DEVICES

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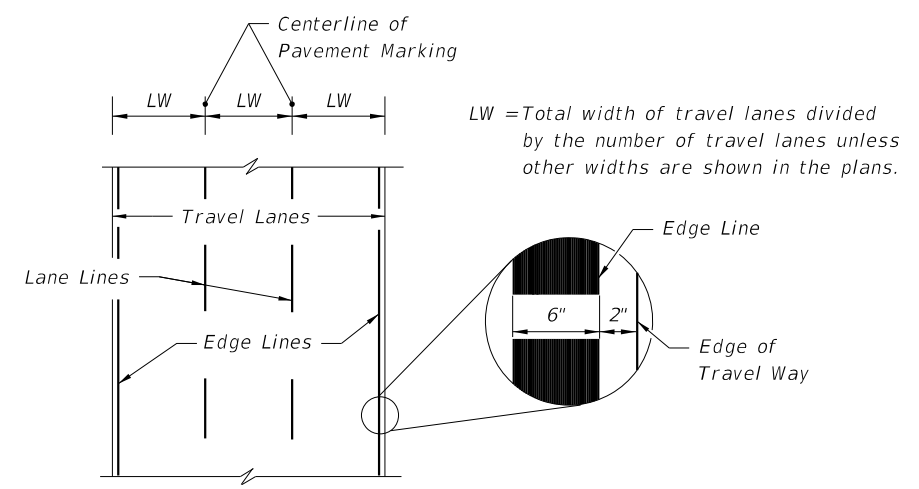
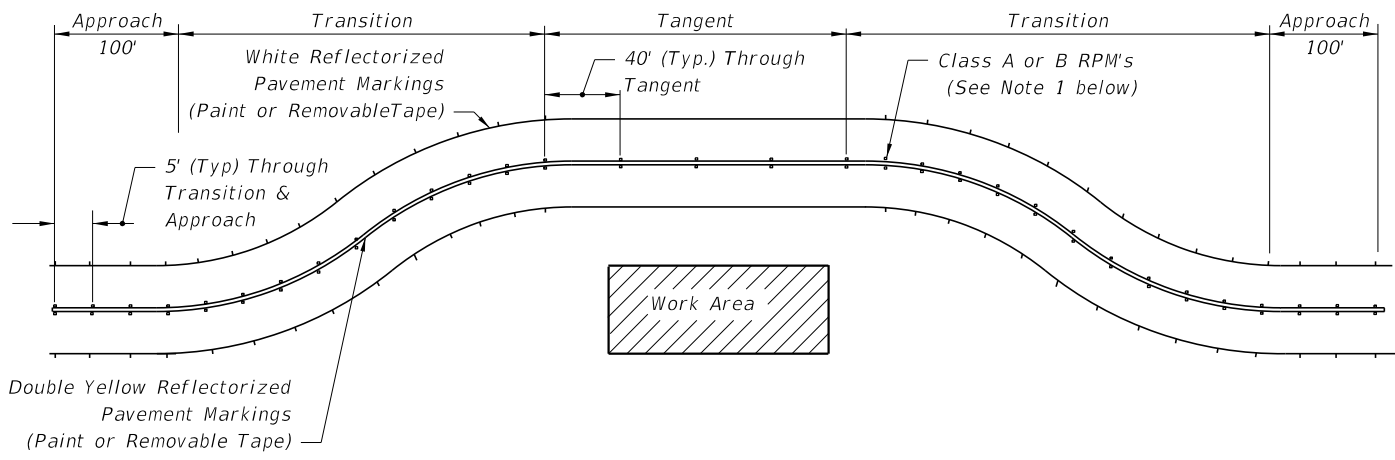


RPM CLASS	APPLICATION FOR REFLECTIVE PAVEMENT MARKERS
A	Work Zone Applications Only, For Traffic And Nontraffic Areas.
B	Permanent Application In Traffic And Nontraffic Areas Or Can Be Used In Work Zone Applications For Traffic And Nontraffic Areas.

TEMPORARY SUBSTITUTION OF RPM'S FOR PAINT OR REMOVABLE TAPE

- Paint or removable tape are the required work zone markings and shall be placed in accordance with the plans and specifications. If these work zone markings can not be placed due to weather restrictions identified in the appropriate specification, temporary substitution of RPM's for work zone markings will be allowed until the weather condition permits the placement of appropriate work zone marking. Temporary substitution of RPM's for work zone markings will be allowed for equipment malfunction, placement of the appropriate work zone marking shall be made within 3 days, or sooner if possible. When RPM's are used as a temporary substitution for work zone markings the following shall apply:
 - Lane widths identified in the plans must be maintained. Placement of RPM's should consider where work zone markings will be placed as soon as conditions allow. If the RPM's can not be placed so that the lane width is maintained after the placement of the work zone markings, the conflicting RPM's must be removed.
 - The color of the RPM body and the reflective face shall conform to the color of the marking for which they substitute.
 - In work zones, CLASS A or B RPM's may be used to form lane lines, edge lines and temporary gore areas as a temporary substitute for paint or removable tape at the spacing shown above.

- NOTES FOR REFLECTIVE PAVEMENT MARKERS**
- The color of the raised pavement marker under both day and night conditions shall conform to the color of the marking for which they serve as a positioning guide, or for which they supplement or substitute.
 - To provide contrast on concrete pavement, or light asphalt, the five (5) white RPM's shall be followed by five black RPM's. The spacing between RPM's shall be 2'-6". Black RPM's will not be required for contrast with yellow RPM's.
 - RPM's used to supplement lane lines are to be paid for as Reflective Pavement Marker (Temporary), EA. RPM's used as a temporary substitute for paint or removable tape due to weather restrictions are to be paid for as Reflective Pavement Marker (Temporary), EA. RPM's used as a temporary substitute for paint or removable tape due to equipment malfunction are to be placed at the Contractor's expense.



USE OF RPM'S TO SUPPLEMENT PAINT OR REMOVABLE TAPE IN WORK ZONES

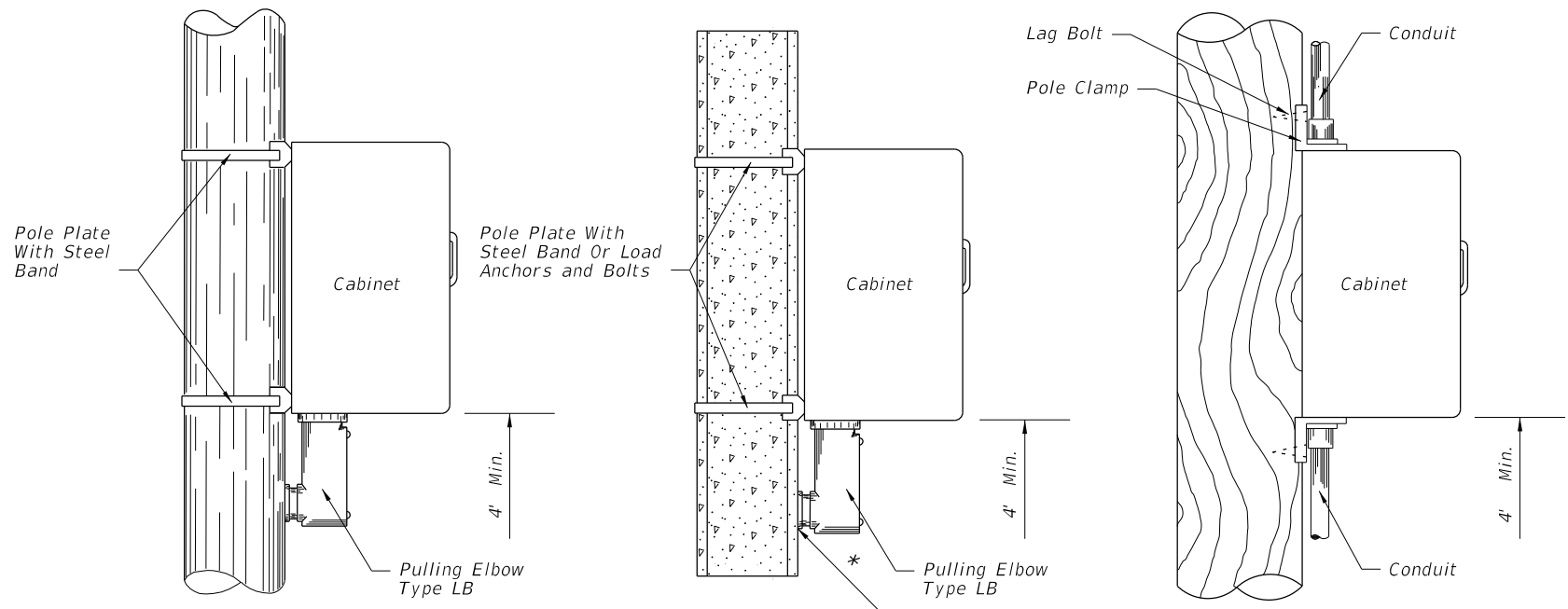
- RPM's shall be installed as a supplement to:
 - All lane lines.
 - Edge lines in transition & approach areas.
 - Edge lines of gore areas.
- Placement of RPM's should be as shown in Index No. 17352 with the following exceptions:
 - RPM's shall be placed at 5 feet center to center in approach and transition areas.

PLACEMENT OF PAVEMENT MARKINGS

PAVEMENT MARKINGS

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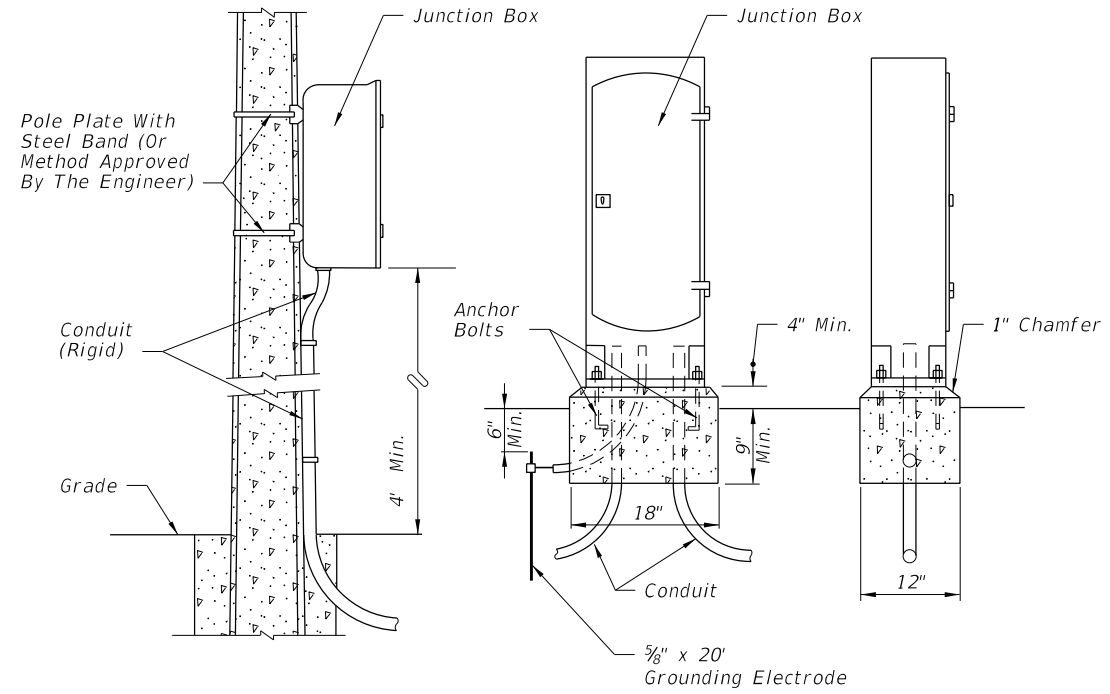


METAL POLE

CONCRETE POLE
POLE MOUNTED CABINET

WOOD POLE

* When a pole mounted cabinet is specified the 2½" hole for the cabinet shall be field drilled.



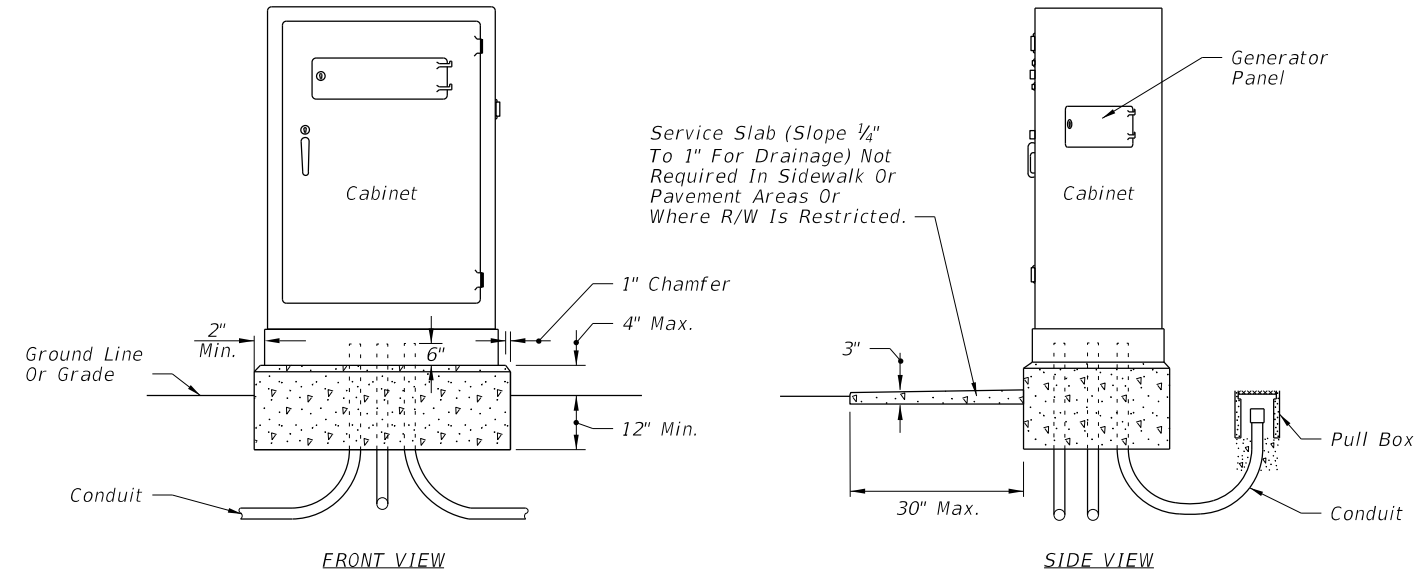
POLE MOUNTED

BASE MOUNTED

INTERCONNECT JUNCTION BOX

Liquidtight flexible conduit is approved for use from the electrical disconnect to the cabinet when both are installed on the same pole.

* If holes for cabinet mounting require relocation, original holes shall be filled in with concrete or covered with a noncorrosive cover plate.



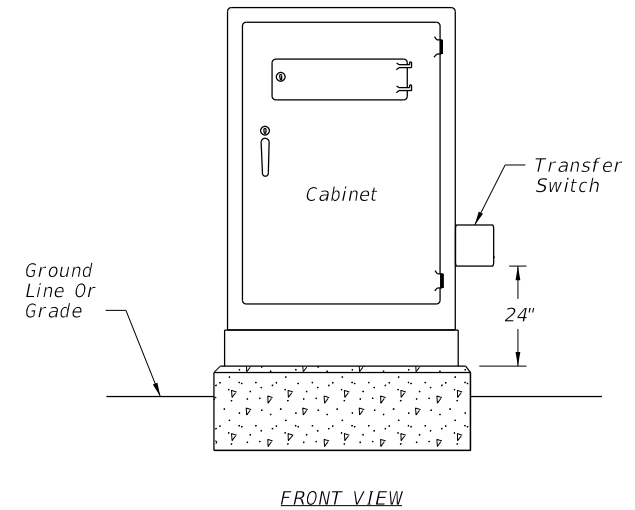
FRONT VIEW

SIDE VIEW

Notes:

1. The number, size and orientation of conduit sweep will vary according to site condition or locations. Two spare 2" PVC conduits shall be provided in all bases. The spares shall exit in the direction of the center rear of the cabinet base, into a pullbox and capped with a weathertight fitting. If obstructions prevent the spare conduit from exiting to the rear, or the rear of the cabinet is located on the R/W line, a side exit of the spare conduits will have to be approved by the project engineer. All spare conduit sweeps shall be capped with a weatherproof fitting.
2. Meet all grounding requirements of the Standard Specifications 620.
3. New Controller Cabinet installation shall meet the requirements of the Standard Specifications 676.

NEW CONTROLLER CABINET

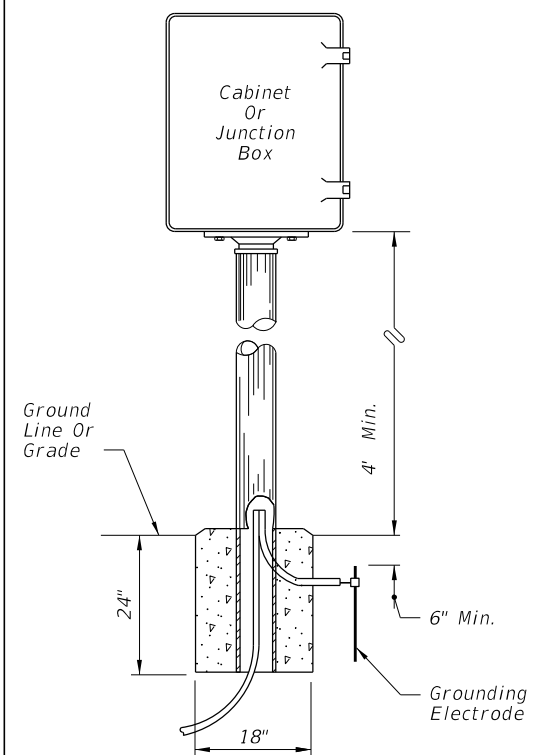


FRONT VIEW

Notes:

1. Existing controller cabinets to be retrofitted shall meet the requirements of the Standard Specifications 678.
2. The signalized intersection controller cabinet retrofit installation procedures are located at: http://www.dot.state.fl.us/TrafficOperations/Doc_Library/Doc_Library.shtm for Generator Power for Signalized Intersection

EXISTING CONTROLLER CABINET



PEDESTAL MOUNTED

12/15/2014 1:49:17 PM

LAST REVISION 12/15/14	REVISION	DESCRIPTION: Changed Notes #2 and #3 for New Controller Cabinet; Changed Note #1 for the Existing Controller Cabinet.	 2015 DESIGN STANDARDS	CABINET INSTALLATION DETAILS	INDEX NO. 17841	SHEET NO. 1 of 1
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