INDEX OF SIGNALIZATION PLANS

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STATE OF FLORIDA

DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

FINANCIAL PROJECT ID 229664-7-52-01

(FEDERAL FUNDS)

PALM BEACH COUNTY (93270)

STATE ROAD NO. 7

FROM SR 704 (OKEECHOBEE BLVD.) TO 60TH STREET

SIGNALIZATION PLANS

BIDDABILITY SUBMITTAL
FEBRUARY, 2021

SIGNALIZATION PLANS
ENGINEER OF RECORD:

Q. AMIN AHMED, P.E.
P.E. NO. 52564
STANLEY CONSULTANTS, INC.
1641 WORTHINGTON ROAD, SUITE 400
WEST PALM BEACH, FL. 33409
CONTRACT NO. C9212
VENDOR NO. VF-421320758-001

FDOT PROJECT MANAGER:

FAUSTO GOMEZ, P.E.

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
T4584	22	T-1

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

QUAZI A AHMED
LICENSE
No 52564
STATE OF FLORIDA
PROFESSIONAL ENGINEER

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY

ON THE DATE ADJACENT TO THE SEAL

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

STANLEY CONSULTANTS, INC.
1641 WORTHINGTON ROAD, SUITE 400
WEST PALM BEACH, FLORIDA 33409
Q. AMIN AHMED, P.E. NO. 52564

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

SHEET NO.	SHEET DESCRIPTION
T-1	KEY SHEET
T-2	SIGNATURE SHEET
T-3 thru T-5	TABULATION OF QUANTITIES
T-6	SIGNALIZATION GENERAL NOTES
T-7 thru T-9	SIGNALIZATION PLAN
T-10 thru T-26	INTERCONNECT PLAN
T-27	MAST ARM TABULATION
T-29 thru T-31	SERVICE POINT LOCATION DETAIL
T-32	MAST ARM DETAIL

ERIC HUSKEY
LICENSE
No 56593
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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STANLEY CONSULTANTS, INC.
1641 WORTHINGTON ROAD, SUITE 400
WEST PALM BEACH, FLORIDA 33409
ERIC HUSKEY, P.E. NO. 56593

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

SHEET NO.	SHEET DESCRIPTION
T-2	SIGNATURE SHEET
T-28	STANDARD MAST ARM ASSEMBLIES

RAJ KRISHNASAMY
LICENSE
No 53567
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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ON THE DATE ADJACENT TO THE SEAL

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TIERRA SOUTH FLORIDA
2765 VISTA PARKWAY, S-10
WEST PALM BEACH, FLORIDA 33411
RAJ KRISHNASAMY, P.E. NO. 53567

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

SHEET NO.	SHEET DESCRIPTION
T-2	SIGNATURE SHEET
GT-1 thru GT-3	REPORT OF CORE BORINGS FOR SIGNALS

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Q. AMIN AHMED, P.E.
P.E. LICENSE NUMBER 52564
STANLEY CONSULTANTS INC.
1641 WORTHINGTON ROAD, SUITE 400
WEST PALM BEACH, FLORIDA 33409

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 7	PALM BEACH	229664-7-52-01

SIGNATURE SHEET

SHEET NO.
T-2

TABULATION OF QUANTITIES

PAY ITEM NUMBER	DESCRIPTION	UNIT	SHEET NUMBERS																		TOTAL THIS SHEET		REF. SHEET
			T-7		T-8		T-9		T-10		T-11		T-12		T-13		T-14		T-15				
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	
630-2-11	CONDUIT, F&I, OPEN TRENCH	LF	225		220		220		300						920						1,885		
630-2-12	CONDUIT, F&I, DIRECTIONAL BORE	LF	405		525		615		395						120						2,060		
632-7-1	SIGNAL CABLE - NEW OR RECONSTRUCTED INTERSECTION, F&I	PI	1		1		1														3		
633-1-121	FIBER OPTIC CABLE, F&I, UNDERGROUND, 2-12 FIBERS	LF													290						290		
633-1-122	FIBER OPTIC CABLE, F&I, UNDERGROUND, 13-48 FIBERS	LF							1,740		1,595		1,680		1,705		1,685		1,405		9,810		
633-2-31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA													12						12		
633-2-32	FIBER OPTIC CONNECTION, INSTALL, TERMINATION	EA							48												48		
633-3-11	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE ENCLOSURE	EA							1						1						2		
633-3-12	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE TRAY	EA							1						1						2		
633-3-15	FIBER OPTIC CONNECTION HARDWARE, F&I, PRE-TERMINATED PATCH PANEL	EA	1		1		1														3		
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24" COVER SIZE	EA	17		17		17														51		
635-2-12	PULL & SPLICE BOX, F&I, 24" x 36" COVER SIZE	EA							2						4						6		
635-2-13	PULL & SPLICE BOX, F&I, 30" x 60" RECTANGULAR OR ROUND COVER SIZE	EA													1						1		
639-1-122	ELECTRIC POWER SERVICE, F&I, UNDGRD, METER PURCHASED BY CONTRACTOR	AS	1		1		1														3		
639-2-1	ELECTRIC SERVICE WIRE, F&I	LF	200		320		400														920		
641-2-12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE	EA	1		1		1														3		
646-1-11	ALUMINUM SIGNALS POLE, PEDESTAL	EA	4		4		4														12		
649-21-6	STEEL MAST ARM ASSEMBLY, F&I, SINGLE ARM 50'	EA	3		2		2														7		
649-21-10	STEEL MAST ARM ASSEMBLY, F&I, SINGLE ARM 60'	EA			1		1														2		
650-1-14	VEHICULAR TRAFFIC SIGNAL, F&I ALUMINUM, 3 SECTION, 1 WAY	AS	2		4		4														10		
650-1-19	VEHICULAR TRAFFIC SIGNAL, F&I ALUMINUM, 5 SECTION CLUSTER, 1 WAY	AS	4		3		3														10		
653-1-11	PEDESTRIAN SIGNAL, F&I LED COUNTDOWN, 1 WAY	AS	4		4		4														12		
660-4-11	VEHICLE DETECTION SYSTEM-VIDEO, F&I CABINET EQUIPMENT	EA	1		1		1														3		
660-4-12	VEHICLE DETECTION SYSTEM-VIDEO, F&I ABOVE GROUND EQUIPMENT	EA	3		3		3														9		
665-1-11	PEDESTRIAN DETECTOR, F&I, STANDARD	EA	4		4		4														12		
670-5-110	TRAFFIC CONTROLLER ASSEMBLY, F&I, NEMA	AS	1		1		1														3		
684-1-1	MANAGED FIELD ETHERNET SWITCH, F&I	EA	1		1		1														3		
685-1-11	UNINTERRUPTIBLE POWER SUPPLY, F&I, LINE INTERACTIVE	EA	1		1		1														3		

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Q. AMIN AHMED, P.E.
P.E. LICENSE NUMBER 52564
STANLEY CONSULTANTS INC.
1641 WORTHINGTON ROAD, SUITE 400
WEST PALM BEACH, FLORIDA 33409

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 7	PALM BEACH	229664-7-52-01

TABULATION OF QUANTITIES

SHEET NO. T-3

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

TABULATION OF QUANTITIES

PAY ITEM NUMBER	DESCRIPTION	UNIT	SHEET NUMBERS																		TOTAL THIS SHEET		REF. SHEET
			T-16		T-17		T-18		T-19		T-20		T-21		T-22		T-23		T-24				
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	
630-2-11	CONDUIT, F&I, OPEN TRENCH	LF									485		535		545		500				2,065		
630-2-12	CONDUIT, F&I, DIRECTIONAL BORE	LF											120				120				240		
632-7-1	SIGNAL CABLE - NEW OR RECONSTRUCTED INTERSECTION, F&I	PI																					
633-1-121	FIBER OPTIC CABLE, F&I, UNDERGROUND, 2-12 FIBERS	LF											290				290				580		
633-1-122	FIBER OPTIC CABLE, F&I, UNDERGROUND, 13-48 FIBERS	LF	1,585		1,685		1,670		1,430		1,410		1,605		1,565		1,710		1,690		14,350		
633-2-31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA											12				12				24		
633-2-32	FIBER OPTIC CONNECTION, INSTALL, TERMINATION	EA																					
633-3-11	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE ENCLOSURE	EA											1				1				2		
633-3-12	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE TRAY	EA											1				1				2		
633-3-15	FIBER OPTIC CONNECTION HARDWARE, F&I, PRE-TERMINATED PATCH PANEL	EA																					
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24" COVER SIZE	EA																					
635-2-12	PULL & SPLICE BOX, F&I, 24" x 36" COVER SIZE	EA									1		3				3				7		
635-2-13	PULL & SPLICE BOX, F&I, 30" x 60" RECTANGULAR OR ROUND COVER SIZE	EA											1		1		1				3		
639-1-122	ELECTRIC POWER SERVICE, F&I, UNDGRD, METER PURCHASED BY CONTRACTOR	AS																					
639-2-1	ELECTRIC SERVICE WIRE, F&I	LF																					
641-2-12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE	EA																					
646-1-11	ALUMINUM SIGNALS POLE, PEDESTAL	EA																					
649-21-6	STEEL MAST ARM ASSEMBLY, F&I, SINGLE ARM 50'	EA																					
649-21-10	STEEL MAST ARM ASSEMBLY, F&I, SINGLE ARM 60'	EA																					
650-1-14	VEHICULAR TRAFFIC SIGNAL, F&I ALUMINUM, 3 SECTION, 1 WAY	AS																					
650-1-19	VEHICULAR TRAFFIC SIGNAL, F&I ALUMINUM, 5 SECTION CLUSTER, 1 WAY	AS																					
653-1-11	PEDESTRIAN SIGNAL, F&I LED COUNTDOWN, 1 WAY	AS																					
660-4-11	VEHICLE DETECTION SYSTEM-VIDEO, F&I CABINET EQUIPMENT	EA																					
660-4-12	VEHICLE DETECTION SYSTEM-VIDEO, F&I ABOVE GROUND EQUIPMENT	EA																					
665-1-11	PEDESTRIAN DETECTOR, F&I, STANDARD	EA																					
670-5-110	TRAFFIC CONTROLLER ASSEMBLY, F&I, NEMA	AS																					
684-1-1	MANAGED FIELD ETHERNET SWITCH, F&I	EA																					
685-1-11	UNINTERRUPTIBLE POWER SUPPLY, F&I, LINE INTERACTIVE	EA																					

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Q. AMIN AHMED, P.E.
P.E. LICENSE NUMBER 52564
STANLEY CONSULTANTS INC.
1641 WORTHINGTON ROAD, SUITE 400
WEST PALM BEACH, FLORIDA 33409

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 7	PALM BEACH	229664-7-52-01

TABULATION OF QUANTITIES

SHEET NO. T-4

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

TABULATION OF QUANTITIES

PAY ITEM NUMBER	DESCRIPTION	UNIT	SHEET NUMBERS																TOTAL THIS SHEET		GRAND TOTAL		REF. SHEET
			T-25		T-26																		
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	
630-2-11	CONDUIT, F&I, OPEN TRENCH	LF			620														620		4,570		
630-2-12	CONDUIT, F&I, DIRECTIONAL BORE	LF			270														270		2,570		
632-7-1	SIGNAL CABLE - NEW OR RECONSTRUCTED INTERSECTION, F&I	PI																			3		
633-1-121	FIBER OPTIC CABLE, F&I, UNDERGROUND, 2-12 FIBERS	LF																			870		
633-1-122	FIBER OPTIC CABLE, F&I, UNDERGROUND, 13-48 FIBERS	LF	1,690		1,505														3,195		27,355		
633-2-31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA																			36		
633-2-32	FIBER OPTIC CONNECTION, INSTALL, TERMINATION	EA																			48		
633-3-11	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE ENCLOSURE	EA																			4		
633-3-12	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE TRAY	EA																			4		
633-3-15	FIBER OPTIC CONNECTION HARDWARE, F&I, PRE-TERMINATED PATCH PANEL	EA																			3		
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24" COVER SIZE	EA																			51		
635-2-12	PULL & SPLICE BOX, F&I, 24" x 36" COVER SIZE	EA			5														5		18		
635-2-13	PULL & SPLICE BOX, F&I, 30" x 60" RECTANGULAR OR ROUND COVER SIZE	EA			1														1		5		
639-1-122	ELECTRIC POWER SERVICE, F&I, UNDGRD, METER PURCHASED BY CONTRACTOR	AS																			3		
639-2-1	ELECTRIC SERVICE WIRE, F&I	LF																			920		
641-2-12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE	EA																			3		
646-1-11	ALUMINUM SIGNALS POLE, PEDESTAL	EA																			12		
649-21-6	STEEL MAST ARM ASSEMBLY, F&I, SINGLE ARM 50'	EA																			7		
649-21-10	STEEL MAST ARM ASSEMBLY, F&I, SINGLE ARM 60'	EA																			2		
650-1-14	VEHICULAR TRAFFIC SIGNAL, F&I ALUMINUM, 3 SECTION, 1 WAY	AS																			10		
650-1-19	VEHICULAR TRAFFIC SIGNAL, F&I ALUMINUM, 5 SECTION CLUSTER, 1 WAY	AS																			10		
653-1-11	PEDESTRIAN SIGNAL, F&I LED COUNTDOWN, 1 WAY	AS																			12		
660-4-11	VEHICLE DETECTION SYSTEM-VIDEO, F&I CABINET EQUIPMENT	EA																			3		
660-4-12	VEHICLE DETECTION SYSTEM-VIDEO, F&I ABOVE GROUND EQUIPMENT	EA																			9		
665-1-11	PEDESTRIAN DETECTOR, F&I, STANDARD	EA																			12		
670-5-110	TRAFFIC CONTROLLER ASSEMBLY, F&I, NEMA	AS																			3		
684-1-1	MANAGED FIELD ETHERNET SWITCH, F&I	EA																			3		
685-1-11	UNINTERRUPTIBLE POWER SUPPLY, F&I, LINE INTERACTIVE	EA																			3		

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Q. AMIN AHMED, P.E.
P.E. LICENSE NUMBER 52564
STANLEY CONSULTANTS INC.
1641 WORTHINGTON ROAD, SUITE 400
WEST PALM BEACH, FLORIDA 33409

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 7	PALM BEACH	229664-7-52-01

TABULATION OF QUANTITIES

SHEET NO. T-5

SIGNALIZATION GENERAL NOTES

1. THE AGENCY RESPONSIBLE FOR MAINTENANCE OF THE TRAFFIC SIGNALS AND RELATED COMMUNICATIONS EQUIPMENT IS PALM BEACH COUNTY TRAFFIC ENGINEERING DIVISION (PBCTED).

2. PROVIDE SUBMITTAL DATA THAT IS COMPATIBLE WITH THE MAINTAINING AGENCY. PROVIDE THE MAINTAINING AGENCY'S REQUIRED EQUIPMENT AND VERIFY WITH THE MAINTAINING AGENCY PRIOR TO PURCHASING SUCH EQUIPMENT.

3. BECOME FAMILIAR WITH AND COMPLY WITH PBCTED'S INSPECTION PROCEDURES.

4. SEE LEAD (ROADWAY) COMPONENT GENERAL NOTES FOR AGENCY/UTILITY OWNERS AND CONTACT INFORMATION.

5. COORDINATE WITH FLORIDA POWER AND LIGHT COMPANY DISTRIBUTION RELOCATION COORDINATOR FOR ELECTRICAL SERVICE CONNECTIONS.

6. WHEN INSTALLING FIBER OPTIC CABLE PROVIDE 200 FEET OF SLACK IN ALL PALM BEACH COUNTY INTELLIGENT TRANSPORTATION SYSTEM (PBC-ITS) VAULTS AND LARGE PULL BOXES. PROVIDE 20 FEET OF SLACK IN ALL PBC-ITS SMALL PULL BOXES. QUANTITIES FOR SLACK ARE INCLUDED IN THE TABULATED QUANTITIES FOR PAY ITEM NO. 633-1-122.

7. COORDINATE SIGNAL MAST ARM FOUNDATIONS THAT ARE IN SIDEWALK WITH THE ROADWAY PLANS TO CONSTRUCT THE TOP OF THE MAST ARM DRILLED SHAFT FOUNDATION TO MATCH THE ELEVATION AND SLOPE OF THE SIDEWALK.

8. E-MAIL SHOP DRAWINGS TO JEAN MILORD, P.E. (JMILORD@PBCGOV.ORG).

PAY ITEM FOOTNOTES

630-2-11 INCLUDES THE REMOVAL OF EXISTING CONDUIT WHERE NOTED ON THE INTERCONNECT PLANS.

635-2-12 SMALL PULL BOXES FOR PBC-ITS INTERCONNECT FACILITIES SHALL BE 17"x30"x24"D AND THE COVER STAMPED "TRAFFIC ITS".
INCLUDES ADJUSTMENT OF EXISTING PULL BOXES WHERE NOTED ON THE INTERCONNECT PLANS.

635-2-13 LARGE PULL BOXES FOR PBC-ITS INTERCONNECT FACILITIES SHALL BE 30"x48"x24"D AND THE COVER STAMPED "TRAFFIC ITS".
INCLUDES ADJUSTMENT OF EXISTING PULL BOXES WHERE NOTED ON THE INTERCONNECT PLANS.

639-1-122 INCLUDES ALL COSTS FOR FLORIDA POWER AND LIGHT INSTALLATION OF PAD MOUNTED TRANSFORMER FOR THE SERVICE CONNECTION AT THE REGALO DRIVE/SR7 INTERSECTION. SEE SHEETS T-7 AND T-29.

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Q. AMIN AHMED, P.E.
P.E. LICENSE NUMBER 52564
STANLEY CONSULTANTS INC.
1641 WORTHINGTON ROAD, SUITE 400
WEST PALM BEACH, FLORIDA 33409

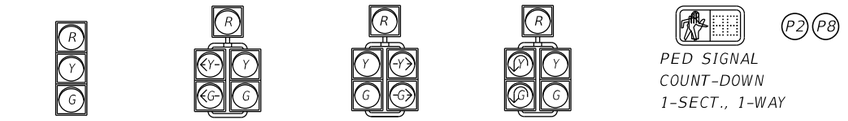
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 7	PALM BEACH	229664-7-52-01

SIGNALIZATION GENERAL NOTES

SHEET NO. T-6

SIGNAL HEAD DETAILS



PED SIGNAL
COUNT-DOWN
1-SECT., 1-WAY

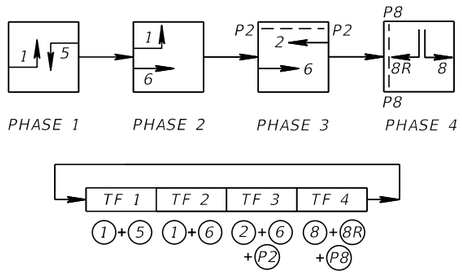
653-1-11 (4 AS)

P2 P8

CAMERA DETECTOR	DETECTION ZONE
V1	DZ-2, DZ-2R, DZ-5
V2	DZ-8, DZ-8R (4 SECOND DELAY)
V3	DZ-1, DZ-6

660-4-11 (1 EA)
660-4-12 (3 EA)

MODIFIED S.O.P. NO. 2

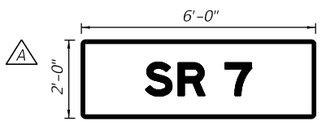


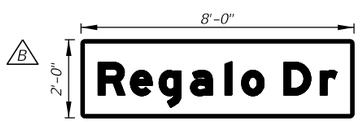
CONTROLLER TIMINGS

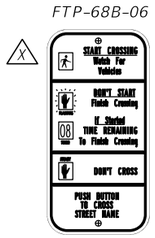
TIMING FUNCTION		1	2	3	4
MOVEMENT NUMBER		1, 5	1, 6	2, 6	8,8R
TIMING FUNCTION	MINIMUM GREEN	10		10	5
	EXTENSION				
	MAXIMUM GREEN 1	25		25	15
	MAXIMUM GREEN 2				
	YELLOW CLEARANCE	4		4	4
	ALL RED	2.5		2	2.5
	PEDESTRIAN WALK			7	7
	PED. CLEARANCE			18	18
	RECALL			ON	

FINAL CONTROLLER TIMINGS TO
BE PROVIDED BY PBCTED

SIGN DETAILS

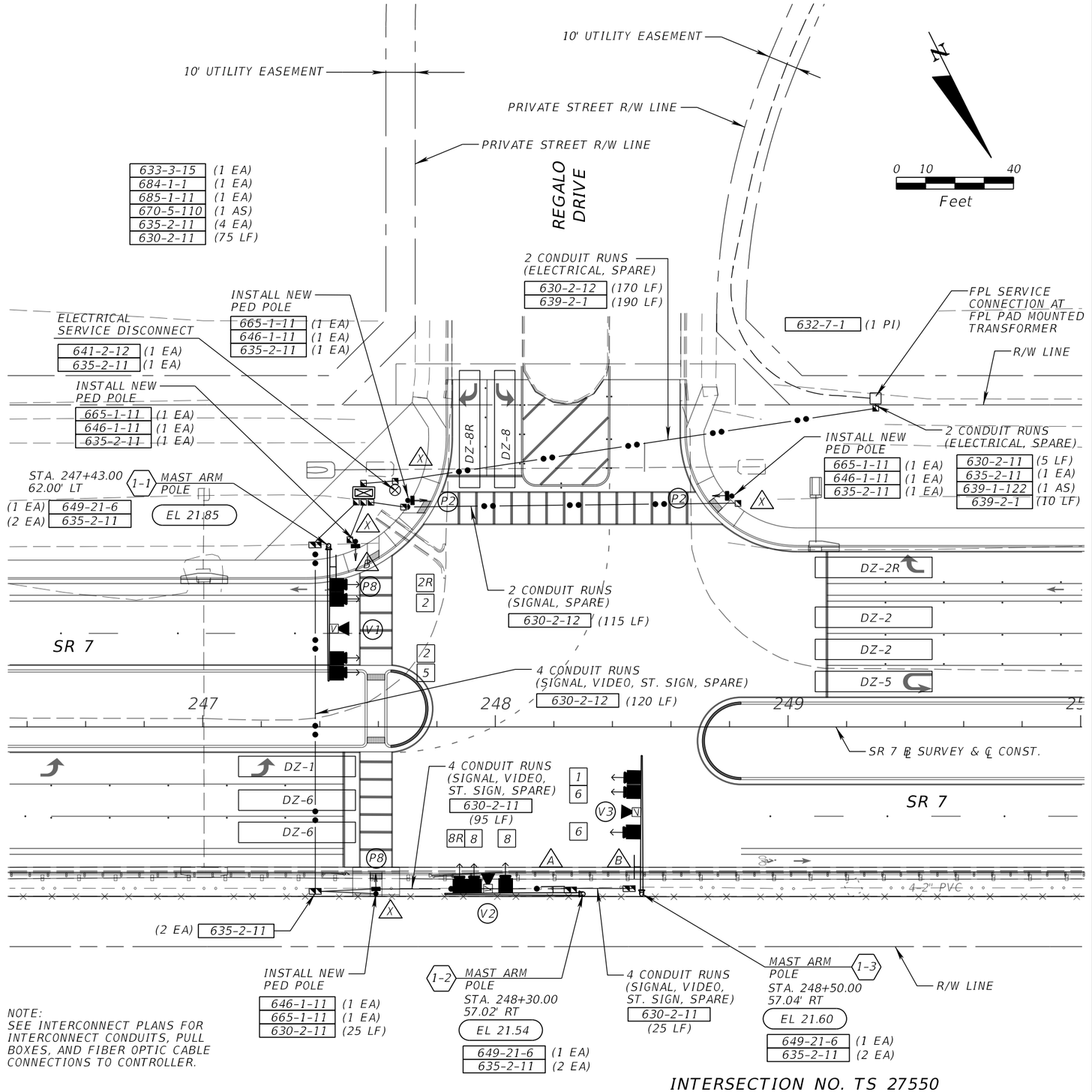






NOTES:

1. MAJOR STREET IS SR 7 (SPEED LIMIT 45 MPH)
   MINOR STREET IS REGALO DRIVE (SPEED LIMIT 25 MPH)
2. FLASHING OPERATION:
   YELLOW FLASH - SR 7 | 1 | 2 | 2R | 5 | 6 |
   RED FLASH - REGALO DRIVE | 8 | 8R |
3. MODIFIED SIGNAL OPERATION PLAN NO. 2
4. POWER WILL BE DRAWN FROM FPL PAD MOUNTED TRANSFORMER ON THE SOUTH SIDE OF SR 7 AT APPROXIMATE STATION 249+30, (LT) SEE SERVICE POINT LOCATION DETAIL, SHEET T-29.



NOTE:
SEE INTERCONNECT PLANS FOR INTERCONNECT CONDUITS, PULL BOXES, AND FIBER OPTIC CABLE CONNECTIONS TO CONTROLLER.

INTERSECTION NO. TS 27550
SR 7 AND REGALO DRIVE

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Q. AMIN AHMED, P.E.
P.E. LICENSE NUMBER 52564
STANLEY CONSULTANTS INC.
1641 WORTHINGTON ROAD, SUITE 400
WEST PALM BEACH, FLORIDA 33409

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 7	PALM BEACH	229664-7-52-01

SIGNALIZATION PLAN

SHEET NO. T-7

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

SIGNAL HEAD DETAILS

3-SECT., 1-WAY
3 AS
650-1-14
6 | 8
(2) (1)

3-SECT., 1-WAY
1 AS
650-1-14
1
(1)

5-SECT., 1-WAY
2 AS
650-1-19
2 | 2R | 8 | 8R
(1) (1)

5-SECT., 1-WAY
1 AS
650-1-19
2 | 5
(1)

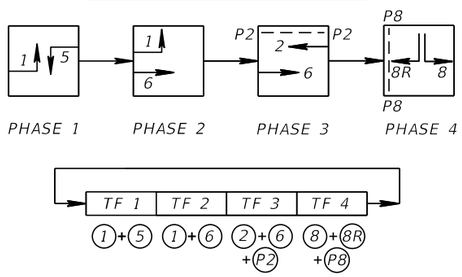
PED SIGNAL
COUNT-DOWN
1-SECT., 1-WAY
653-1-11 (4 AS)

P2 P8

CAMERA DETECTOR	DETECTION ZONE
V1	DZ-2, DZ-2R, DZ-5
V2	DZ-8, DZ-8R (4 SECOND DELAY)
V3	DZ-1, DZ-6

660-4-11 (1 EA)
660-4-12 (3 EA)

MODIFIED S.O.P. NO. 2

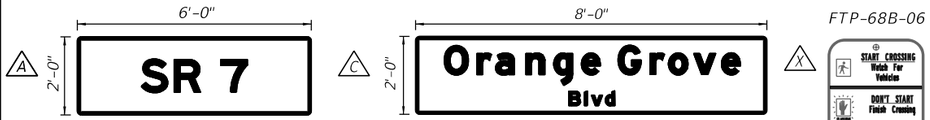


CONTROLLER TIMINGS

TIMING FUNCTION		1	2	3	4
MOVEMENT NUMBER		1, 5	1, 6	2, 6	8,8R
TIMING FUNCTION	MINIMUM GREEN	10		10	5
	EXTENSION				
	MAXIMUM GREEN 1	25		25	15
	MAXIMUM GREEN 2				
	YELLOW CLEARANCE	4		4	4
	ALL RED	2.5		2	2.5
	PEDESTRIAN WALK			7	7
	PED. CLEARANCE			18	18
	RECALL			ON	

FINAL CONTROLLER TIMINGS TO BE PROVIDED BY PBCTED

SIGN DETAILS

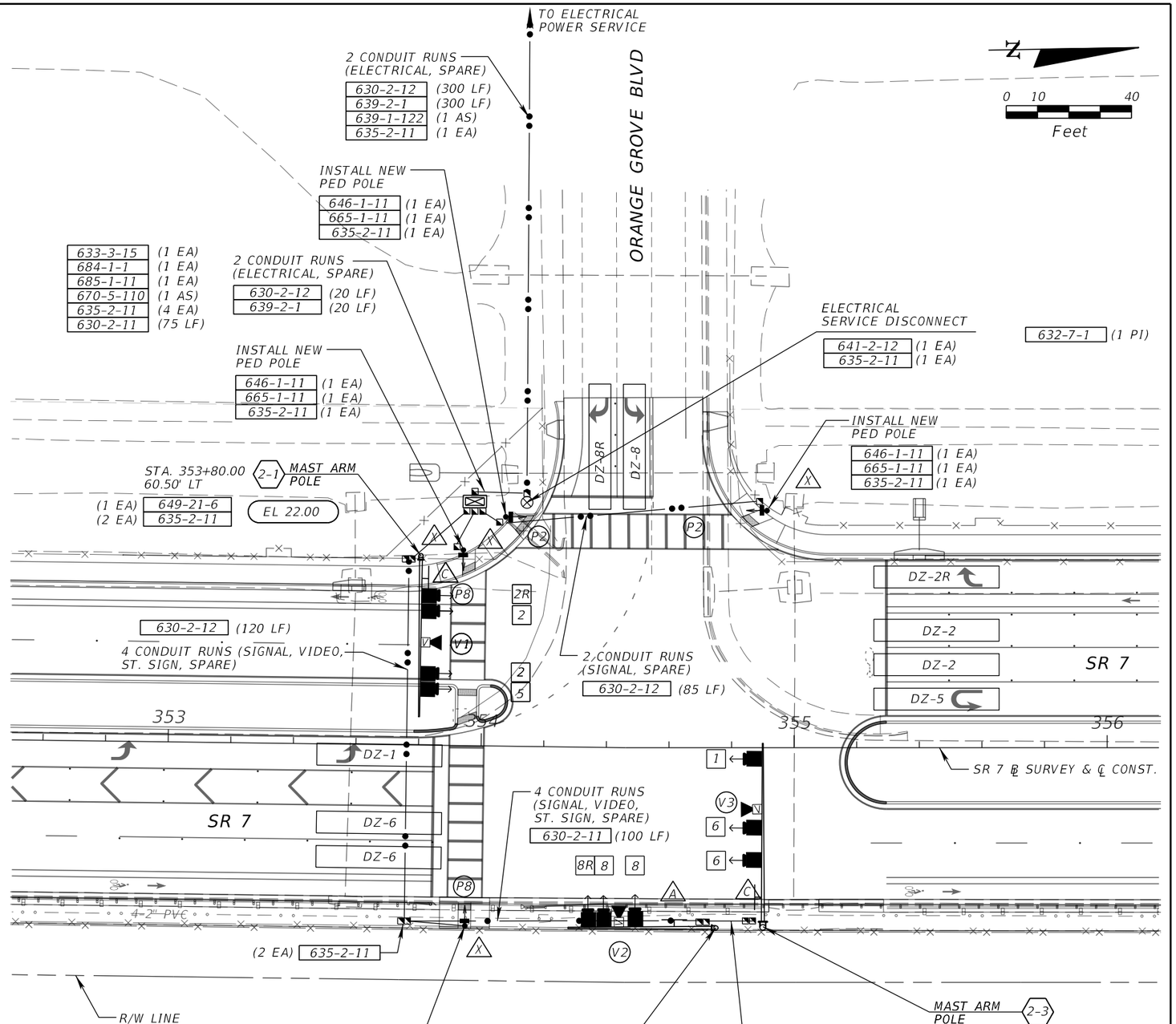


FTP-68B-06

9" x 18"

NOTES:

1. MAJOR STREET IS SR 7 (SPEED LIMIT 45 MPH)
   MINOR STREET IS ORANGE GROVE BLVD (SPEED LIMIT 35 MPH)
2. FLASHING OPERATION:
   YELLOW FLASH - SR 7 1 | 2 | 2R | 5 | 6
   RED FLASH - ORANGE GROVE BLVD 8 | 8R
3. MODIFIED SIGNAL OPERATION PLAN NO. 2
4. POWER WILL BE DRAWN FROM EXISTING POWER POLE APPROXIMATELY 325' WEST OF SR 7 ON THE SOUTH SIDE OF ORANGE GROVE BLVD. SEE SERVICE POINT LOCATION DETAIL, SHEET T-30.



NOTE:
SEE INTERCONNECT PLANS FOR INTERCONNECT CONDUITS, PULL BOXES, AND FIBER OPTIC CABLE CONNECTIONS TO CONTROLLER.

INTERSECTION NO. TS 27677
SR 7 AND ORANGE GROVE BLVD.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

O. AMIN AHMED, P.E.
P.E. LICENSE NUMBER 52564
STANLEY CONSULTANTS INC.
1641 WORTHINGTON ROAD, SUITE 400
WEST PALM BEACH, FLORIDA 33409

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

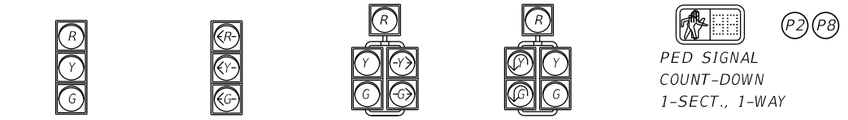
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 7	PALM BEACH	229664-7-52-01

SIGNALIZATION PLAN

SHEET NO. T-8

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

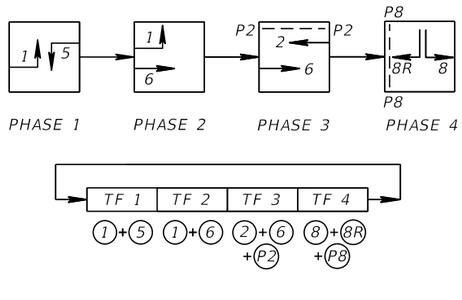
SIGNAL HEAD DETAILS



CAMERA DETECTOR	DETECTION ZONE
V1	DZ-2, DZ-2R, DZ-5
V2	DZ-8, DZ-8R (4 SECOND DELAY)
V3	DZ-1, DZ-6

660-4-11 (1 EA)
660-4-12 (3 EA)

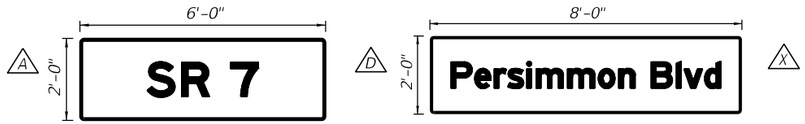
MODIFIED S.O.P. NO. 2

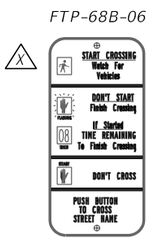


CONTROLLER TIMINGS					
TIMING FUNCTION		1	2	3	4
MOVEMENT NUMBER		1, 5	1, 6	2, 6	8,8R
TIMING FUNCTION	MINIMUM GREEN	10		10	5
	EXTENSION				
	MAXIMUM GREEN 1	25		25	15
	MAXIMUM GREEN 2				
	YELLOW CLEARANCE	4		4	4
	ALL RED	2.5		2	2.5
	PEDESTRIAN WALK			7	7
	PED. CLEARANCE			18	18
	RECALL			ON	

FINAL CONTROLLER TIMINGS TO BE PROVIDED BY PBCTED

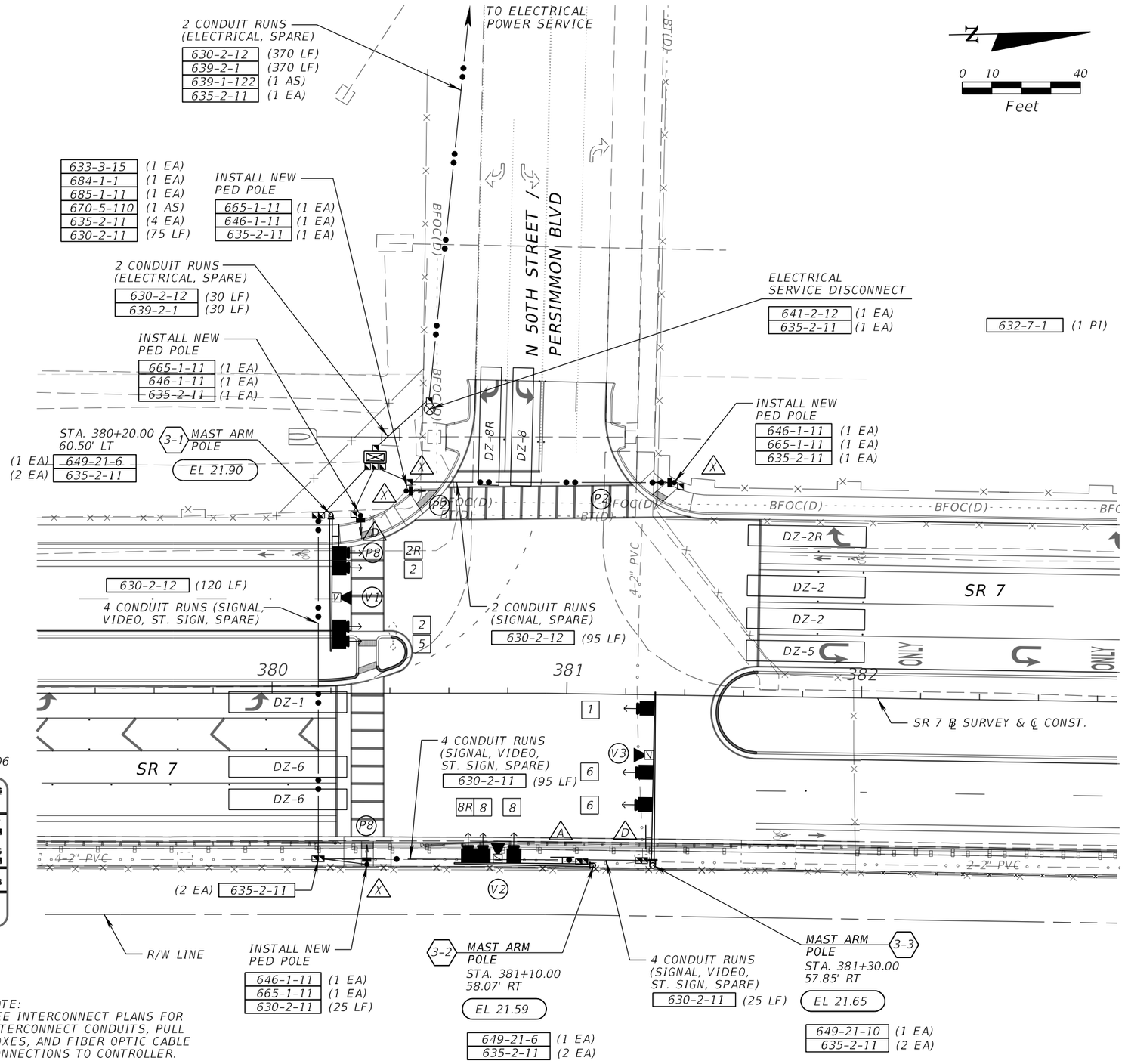
SIGN DETAILS





NOTES:

1. MAJOR STREET IS SR 7 (SPEED LIMIT 45 MPH)
   MINOR STREET IS PERSIMMON BLVD (SPEED LIMIT 35 MPH)
2. FLASHING OPERATION:
   YELLOW FLASH - SR 7 | 1 | 2 | 2R | 5 | 6 |
   RED FLASH - PERSIMMON BLVD | 8 | 8R |
3. MODIFIED SIGNAL OPERATION PLAN NO. 2
4. POWER WILL BE DRAWN FROM EXISTING POWER POLE APPROXIMATELY 400' WEST OF SR 7 ON THE SOUTH SIDE OF PERSIMMON BLVD. SEE SERVICE POINT LOCATION DETAIL, SHEET T-31.



NOTE:
SEE INTERCONNECT PLANS FOR INTERCONNECT CONDUITS, PULL BOXES, AND FIBER OPTIC CABLE CONNECTIONS TO CONTROLLER.

INTERSECTION NO. TS 27657
SR 7 AND PERSIMMON BLVD.

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

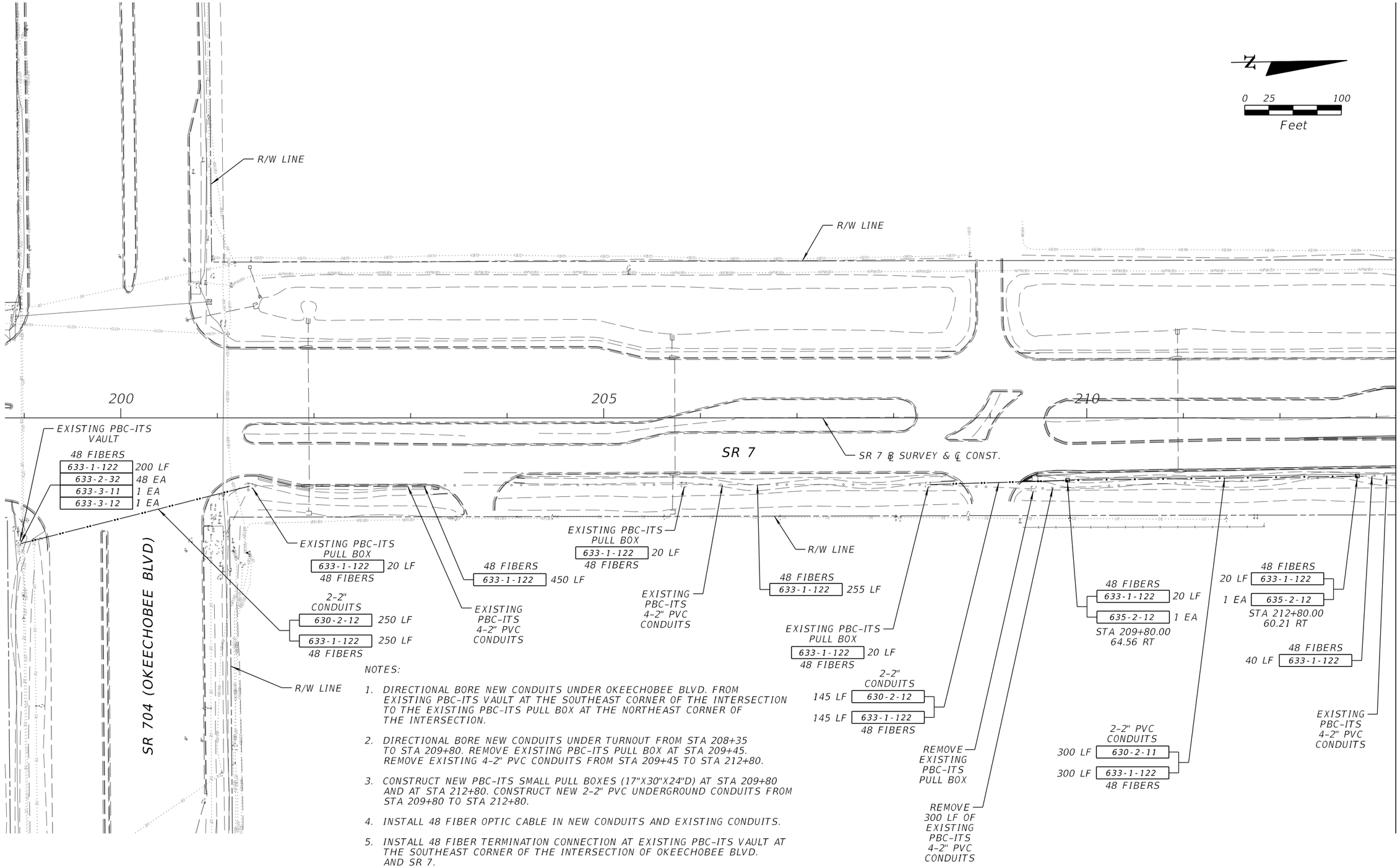
Q. AMIN AHMED, P.E.
P.E. LICENSE NUMBER 52564
STANLEY CONSULTANTS INC.
1641 WORTHINGTON ROAD, SUITE 400
WEST PALM BEACH, FLORIDA 33409

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 7	PALM BEACH	229664-7-52-01

SIGNALIZATION PLAN

SHEET NO. T-9



NOTES:

1. DIRECTIONAL BORE NEW CONDUITS UNDER OKEECHOBEE BLVD. FROM EXISTING PBC-ITS VAULT AT THE SOUTHEAST CORNER OF THE INTERSECTION TO THE EXISTING PBC-ITS PULL BOX AT THE NORTHEAST CORNER OF THE INTERSECTION.
2. DIRECTIONAL BORE NEW CONDUITS UNDER TURNOUT FROM STA 208+35 TO STA 209+80. REMOVE EXISTING PBC-ITS PULL BOX AT STA 209+45. REMOVE EXISTING 4-2" PVC CONDUITS FROM STA 209+45 TO STA 212+80.
3. CONSTRUCT NEW PBC-ITS SMALL PULL BOXES (17"X30"X24"D) AT STA 209+80 AND AT STA 212+80. CONSTRUCT NEW 2-2" PVC UNDERGROUND CONDUITS FROM STA 209+80 TO STA 212+80.
4. INSTALL 48 FIBER OPTIC CABLE IN NEW CONDUITS AND EXISTING CONDUITS.
5. INSTALL 48 FIBER TERMINATION CONNECTION AT EXISTING PBC-ITS VAULT AT THE SOUTHEAST CORNER OF THE INTERSECTION OF OKEECHOBEE BLVD. AND SR 7.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

O. AMIN AHMED, P.E.
P.E. LICENSE NUMBER 52564
STANLEY CONSULTANTS INC.
1641 WORTHINGTON ROAD, SUITE 400
WEST PALM BEACH, FLORIDA 33409

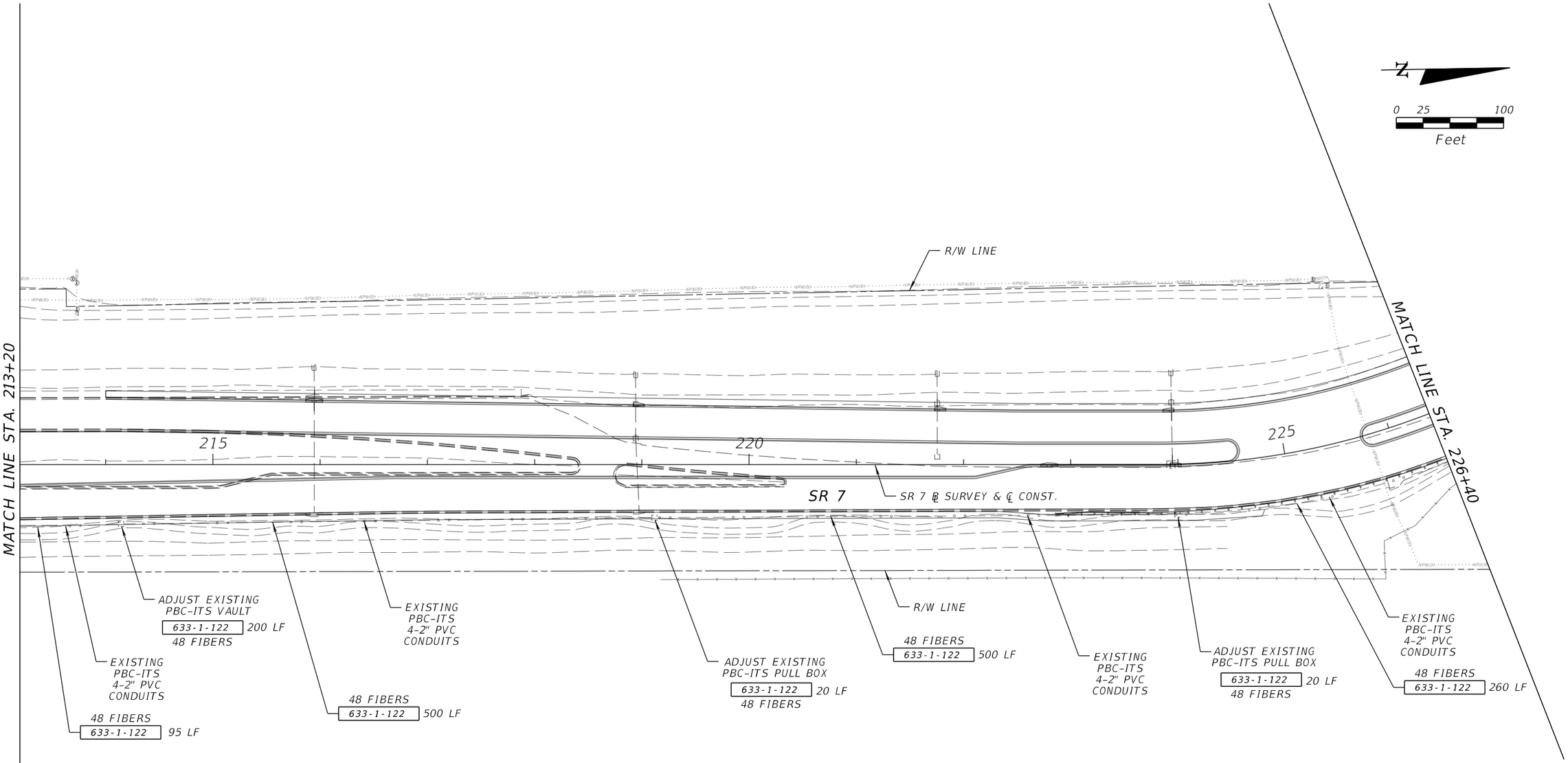
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 7	PALM BEACH	229664-7-52-01

INTERCONNECT PLAN

SHEET NO. T-10

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



NOTE:

1. INSTALL 48 FIBER OPTIC CABLE IN EXISTING VAULTS, PULL BOXES AND CONDUITS.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

O. AMIN AHMED, P.E.
P.E. LICENSE NUMBER 52564
STANLEY CONSULTANTS INC.
1641 WORTHINGTON ROAD, SUITE 400
WEST PALM BEACH, FLORIDA 33409

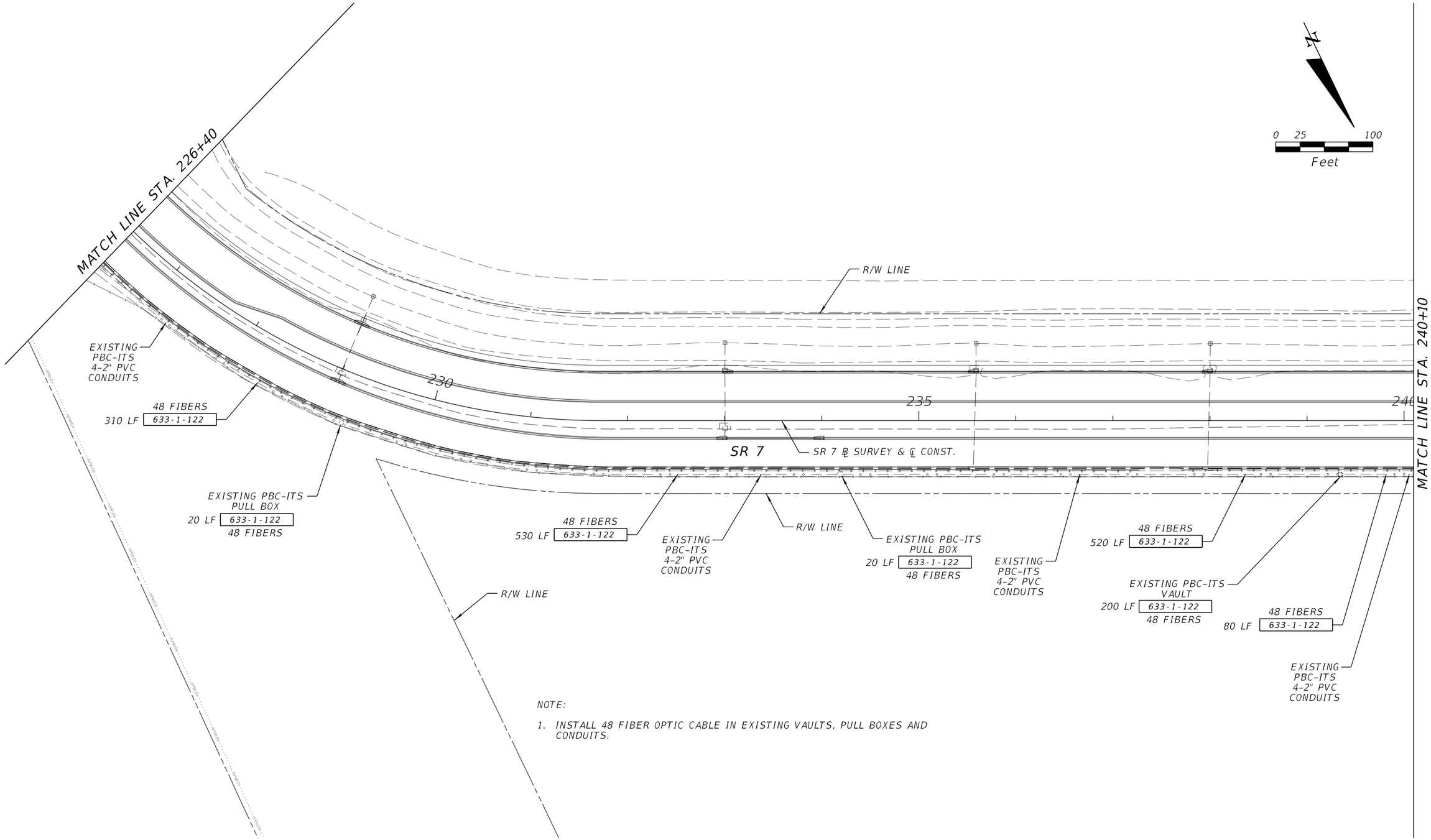
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 7	PALM BEACH	229664-7-52-01

INTERCONNECT PLAN

SHEET NO. T-11

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



NOTE:

1. INSTALL 48 FIBER OPTIC CABLE IN EXISTING VAULTS, PULL BOXES AND CONDUITS.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Q. AMIN AHMED, P.E.
P.E. LICENSE NUMBER 52564
STANLEY CONSULTANTS INC.
1641 WORTHINGTON ROAD, SUITE 400
WEST PALM BEACH, FLORIDA 33409

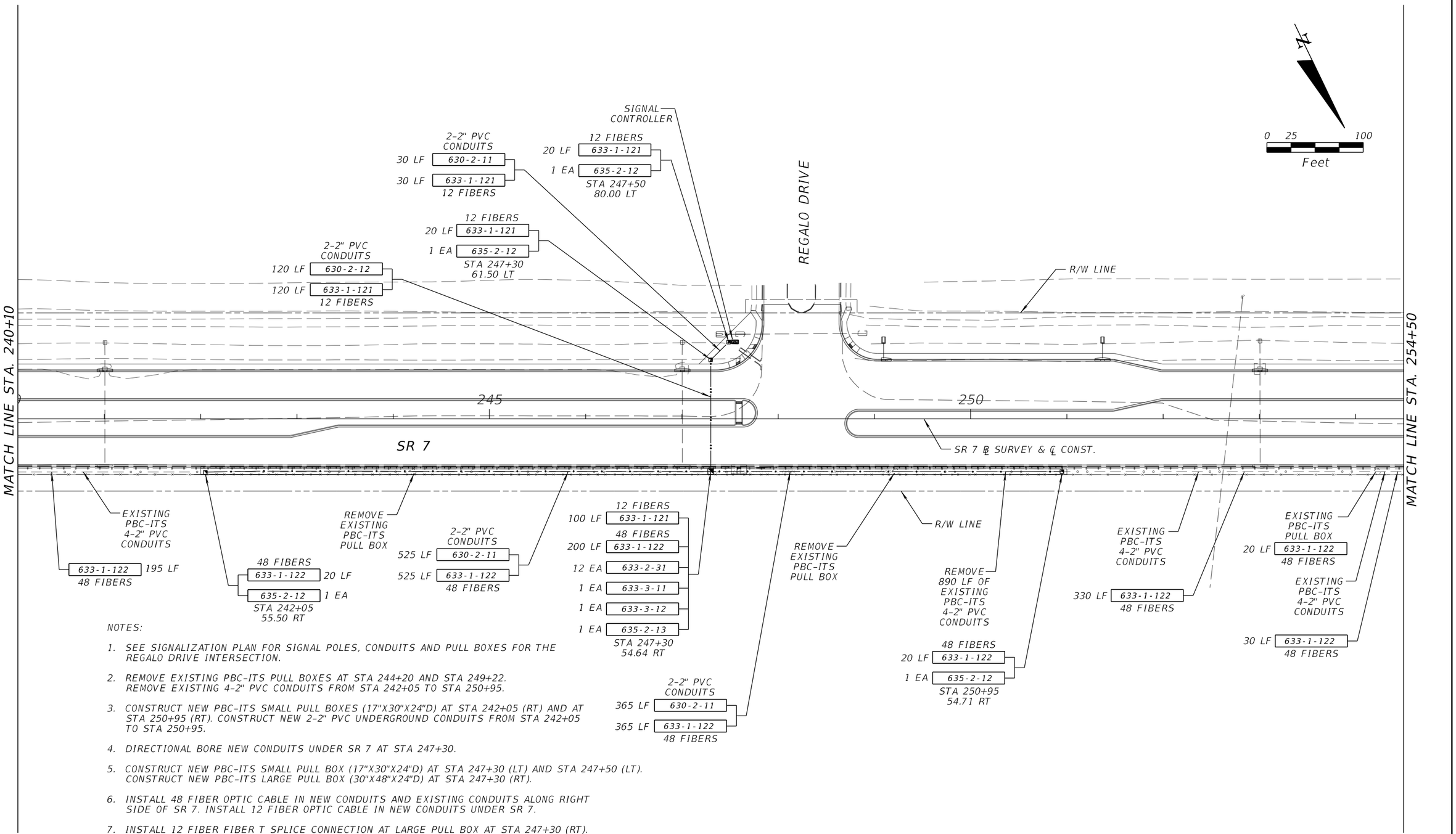
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 7	PALM BEACH	229664-7-52-01

INTERCONNECT PLAN

SHEET NO.
T-12

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



NOTES:

1. SEE SIGNALIZATION PLAN FOR SIGNAL POLES, CONDUITS AND PULL BOXES FOR THE REGALO DRIVE INTERSECTION.
2. REMOVE EXISTING PBC-ITS PULL BOXES AT STA 244+20 AND STA 249+22. REMOVE EXISTING 4-2" PVC CONDUITS FROM STA 242+05 TO STA 250+95.
3. CONSTRUCT NEW PBC-ITS SMALL PULL BOXES (17"X30"X24"D) AT STA 242+05 (RT) AND AT STA 250+95 (RT). CONSTRUCT NEW 2-2" PVC UNDERGROUND CONDUITS FROM STA 242+05 TO STA 250+95.
4. DIRECTIONAL BORE NEW CONDUITS UNDER SR 7 AT STA 247+30.
5. CONSTRUCT NEW PBC-ITS SMALL PULL BOX (17"X30"X24"D) AT STA 247+30 (LT) AND STA 247+50 (LT). CONSTRUCT NEW PBC-ITS LARGE PULL BOX (30"X48"X24"D) AT STA 247+30 (RT).
6. INSTALL 48 FIBER OPTIC CABLE IN NEW CONDUITS AND EXISTING CONDUITS ALONG RIGHT SIDE OF SR 7. INSTALL 12 FIBER OPTIC CABLE IN NEW CONDUITS UNDER SR 7.
7. INSTALL 12 FIBER FIBER T SPLICE CONNECTION AT LARGE PULL BOX AT STA 247+30 (RT).
8. INSTALL 12 FIBER TERMINATION CONNECTION AT CONTROLLER.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

O. AMIN AHMED, P.E.
P.E. LICENSE NUMBER 52564
STANLEY CONSULTANTS INC.
1641 WORTHINGTON ROAD, SUITE 400
WEST PALM BEACH, FLORIDA 33409

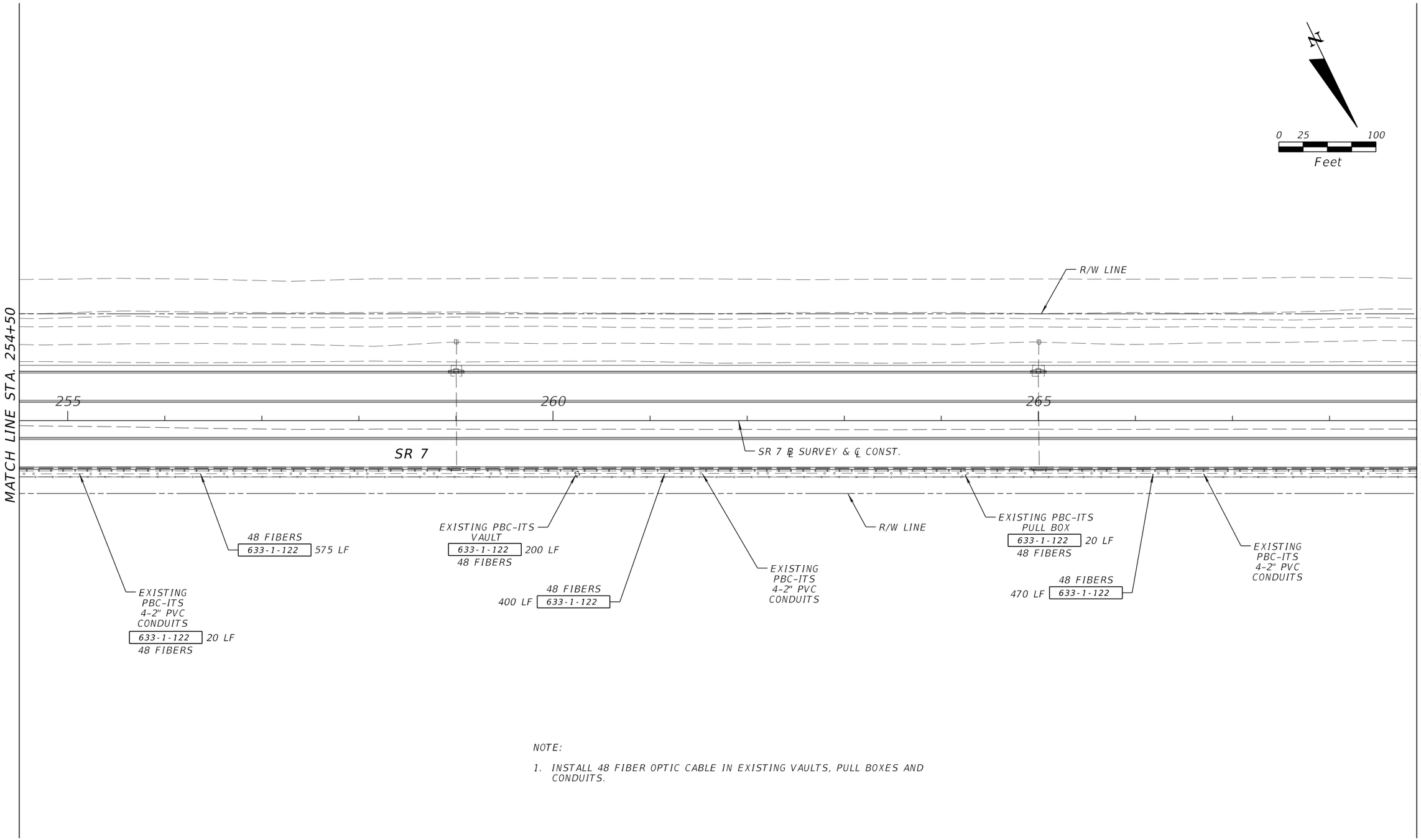
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 7	PALM BEACH	229664-7-52-01

INTERCONNECT PLAN

SHEET NO. T-13

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



NOTE:

1. INSTALL 48 FIBER OPTIC CABLE IN EXISTING VAULTS, PULL BOXES AND CONDUITS.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

O. AMIN AHMED, P.E.
P.E. LICENSE NUMBER 52564
STANLEY CONSULTANTS INC.
1641 WORTHINGTON ROAD, SUITE 400
WEST PALM BEACH, FLORIDA 33409

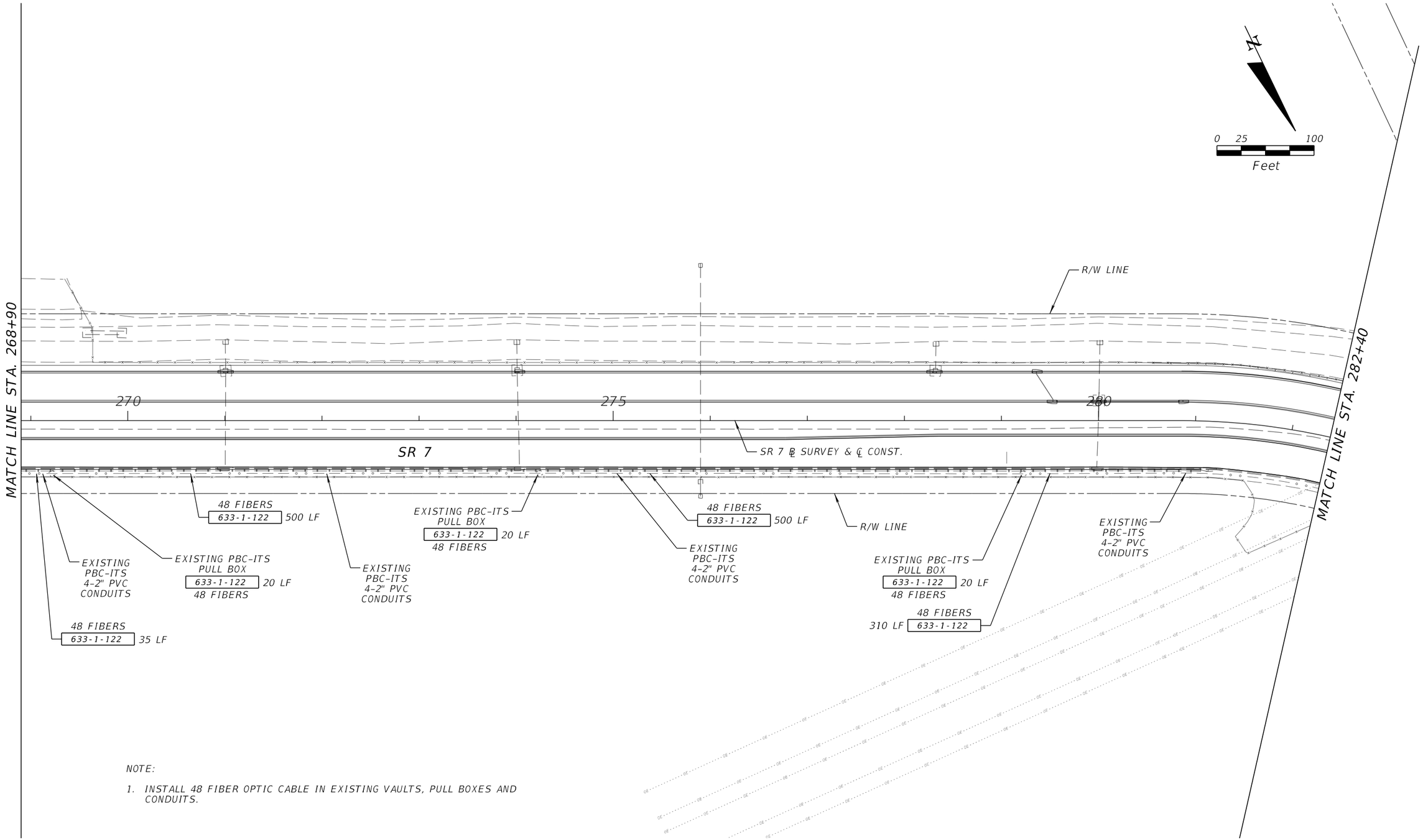
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 7	PALM BEACH	229664-7-52-01

INTERCONNECT PLAN

SHEET NO.
T-14

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



NOTE:

1. INSTALL 48 FIBER OPTIC CABLE IN EXISTING VAULTS, PULL BOXES AND CONDUITS.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

O. AMIN AHMED, P.E.
P.E. LICENSE NUMBER 52564
STANLEY CONSULTANTS INC.
1641 WORTHINGTON ROAD, SUITE 400
WEST PALM BEACH, FLORIDA 33409

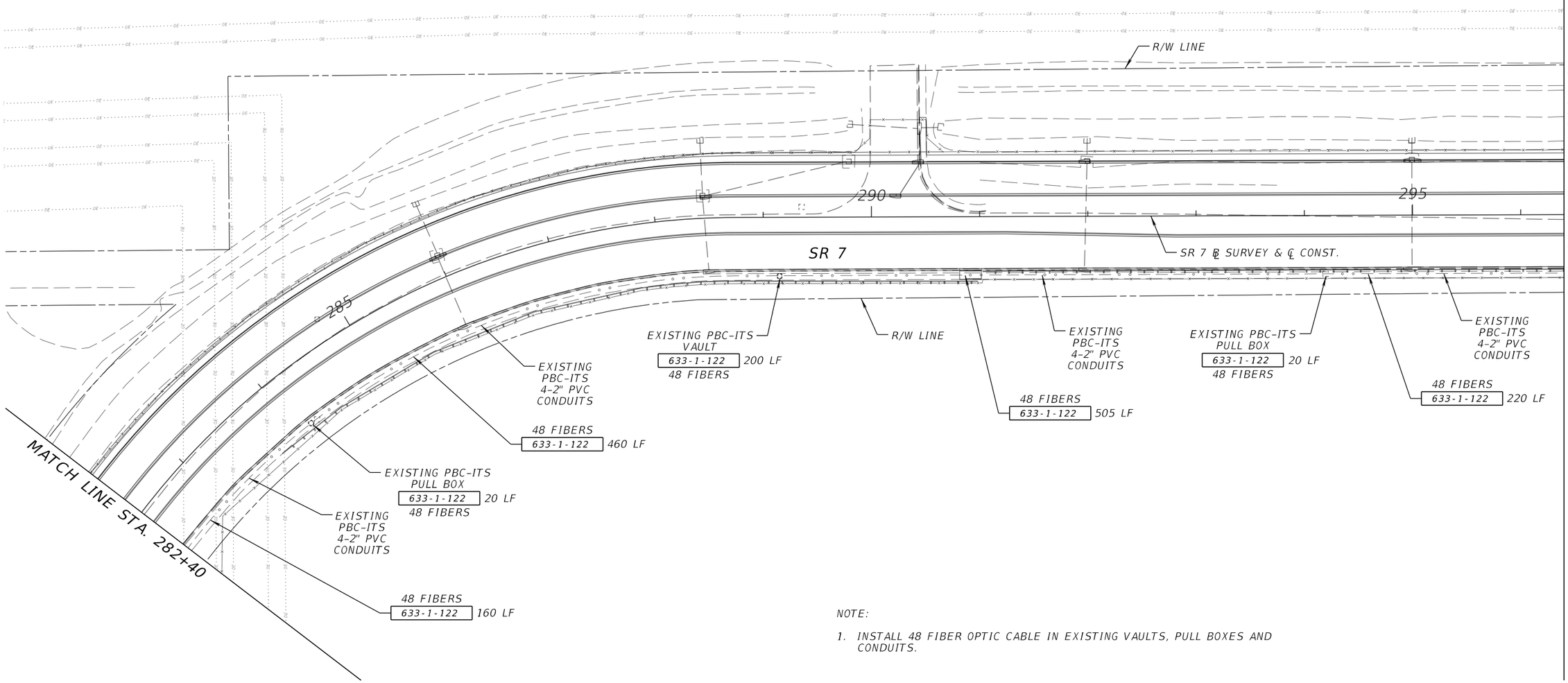
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 7	PALM BEACH	229664-7-52-01

INTERCONNECT PLAN

SHEET NO.
T-15

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



NOTE:

1. INSTALL 48 FIBER OPTIC CABLE IN EXISTING VAULTS, PULL BOXES AND CONDUITS.

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

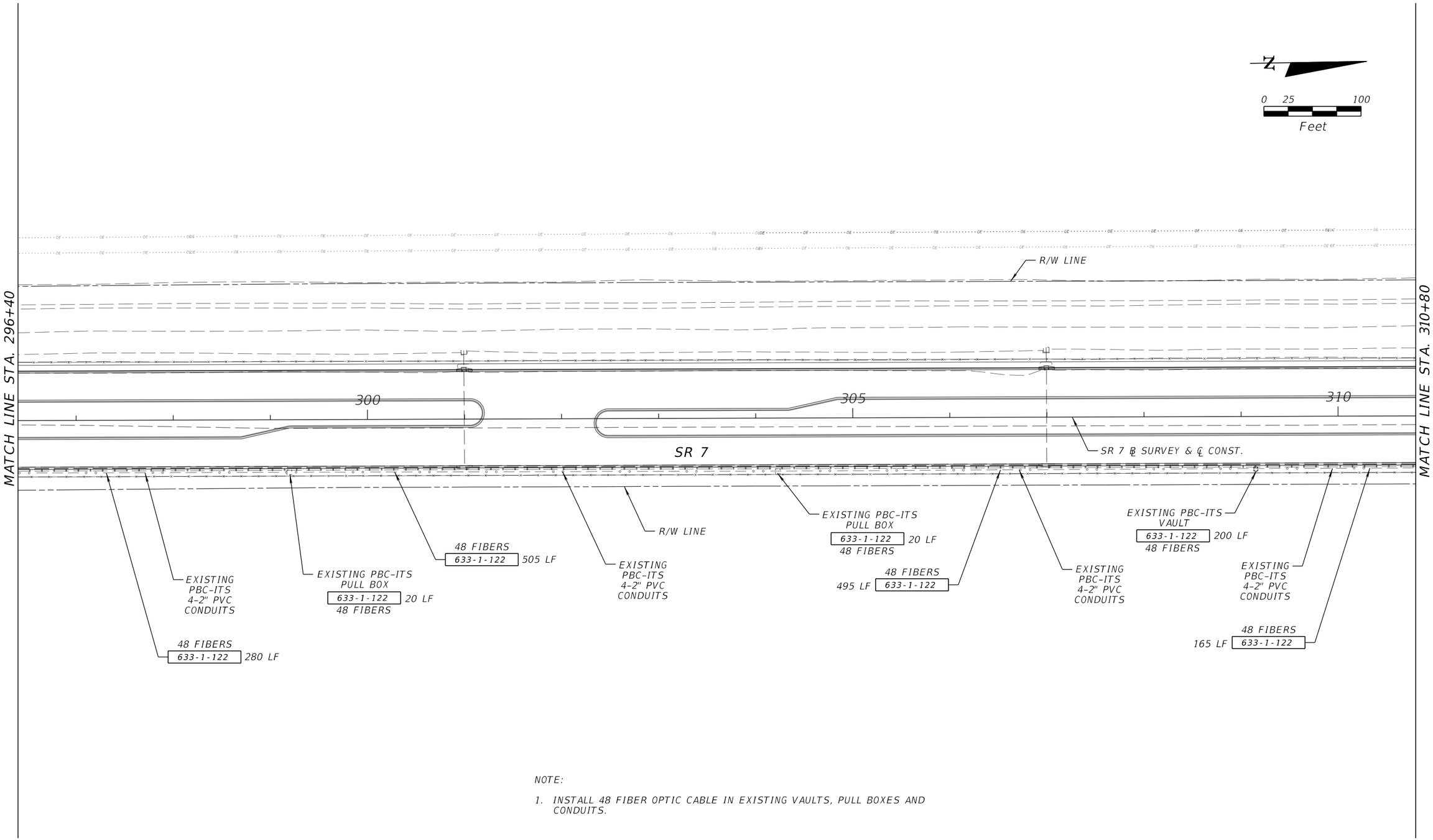
Q. AMIN AHMED, P.E.
P.E. LICENSE NUMBER 52564
STANLEY CONSULTANTS INC.
1641 WORTHINGTON ROAD, SUITE 400
WEST PALM BEACH, FLORIDA 33409

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 7	PALM BEACH	229664-7-52-01

INTERCONNECT PLAN

SHEET NO. T-16



NOTE:

1. INSTALL 48 FIBER OPTIC CABLE IN EXISTING VAULTS, PULL BOXES AND CONDUITS.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Q. AMIN AHMED, P.E.
P.E. LICENSE NUMBER 52564
STANLEY CONSULTANTS INC.
1641 WORTHINGTON ROAD, SUITE 400
WEST PALM BEACH, FLORIDA 33409

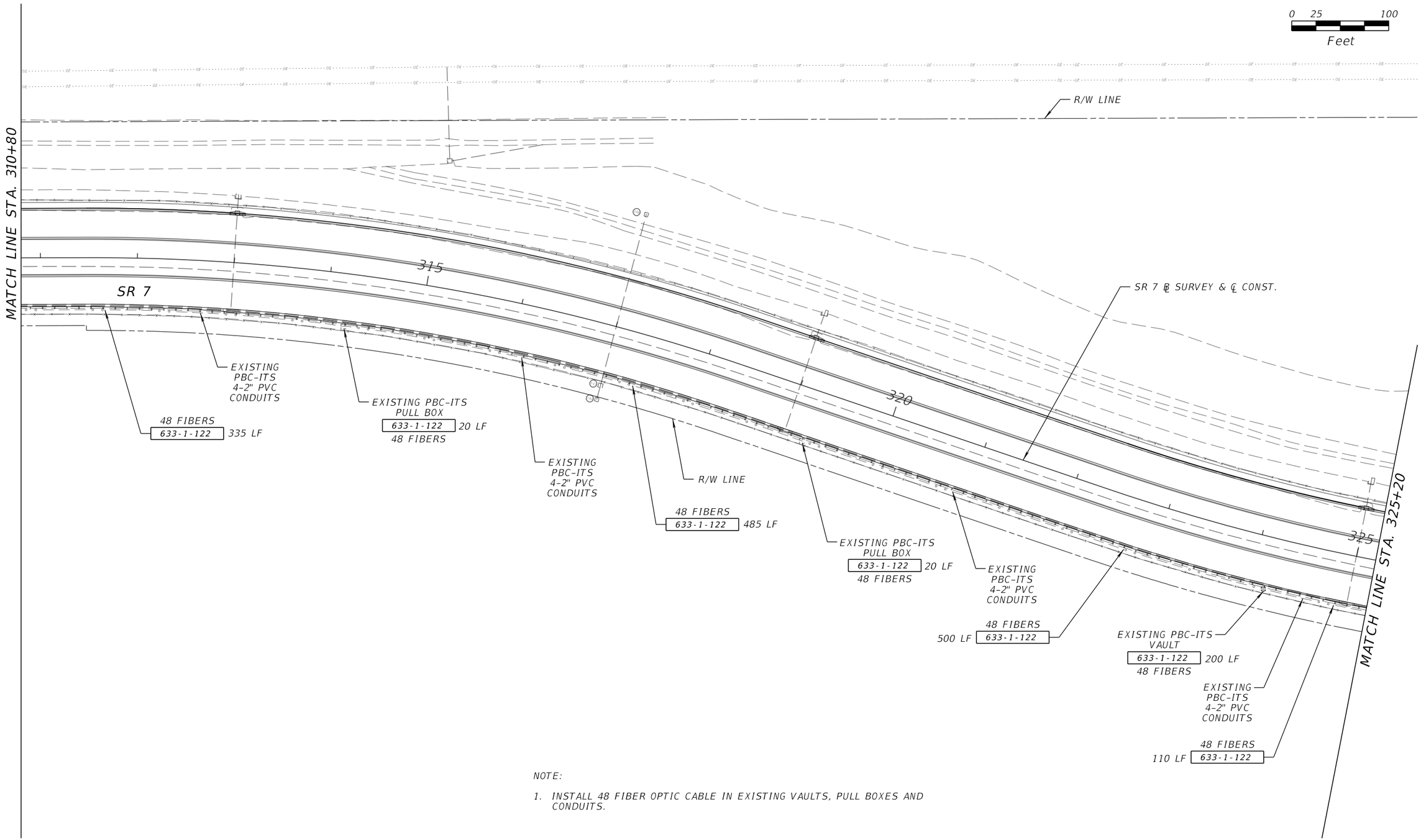
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 7	PALM BEACH	229664-7-52-01

INTERCONNECT PLAN

SHEET NO.
T-17

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



NOTE:

1. INSTALL 48 FIBER OPTIC CABLE IN EXISTING VAULTS, PULL BOXES AND CONDUITS.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Q. AMIN AHMED, P.E.
P.E. LICENSE NUMBER 52564
STANLEY CONSULTANTS INC.
1641 WORTHINGTON ROAD, SUITE 400
WEST PALM BEACH, FLORIDA 33409

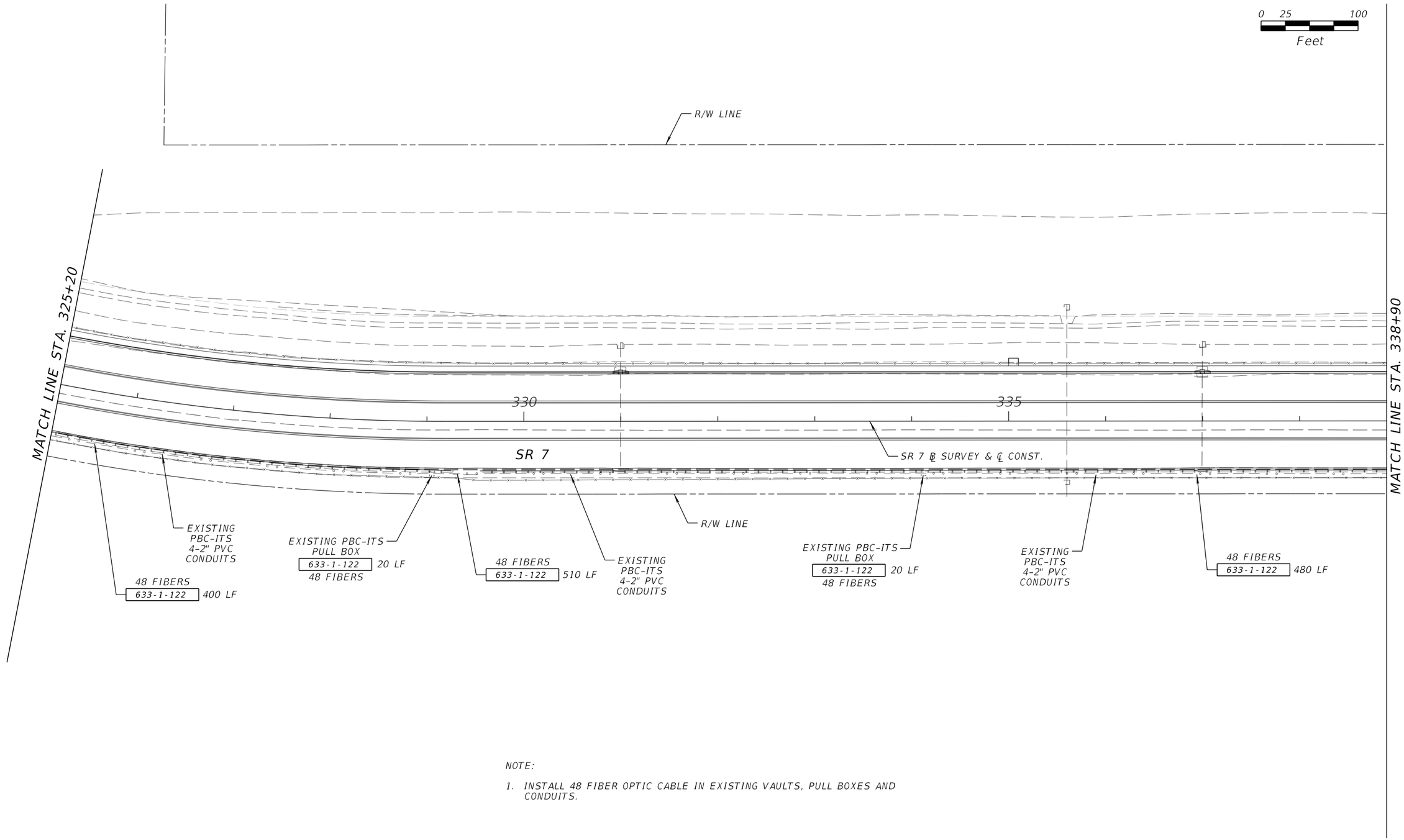
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 7	PALM BEACH	229664-7-52-01

INTERCONNECT PLAN

SHEET NO.
T-18

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



NOTE:

1. INSTALL 48 FIBER OPTIC CABLE IN EXISTING VAULTS, PULL BOXES AND CONDUITS.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Q. AMIN AHMED, P.E.
P.E. LICENSE NUMBER 52564
STANLEY CONSULTANTS INC.
1641 WORTHINGTON ROAD, SUITE 400
WEST PALM BEACH, FLORIDA 33409

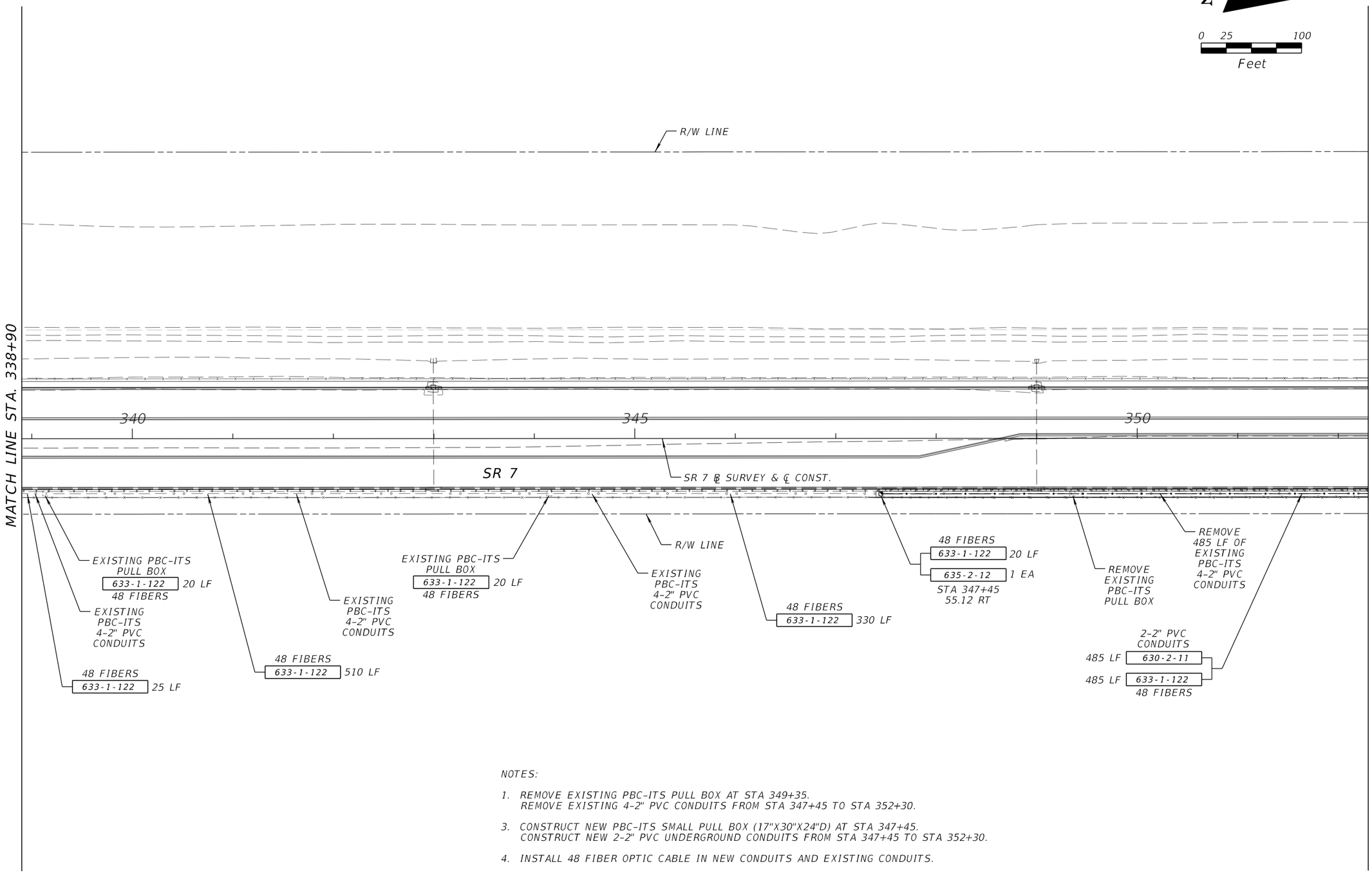
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 7	PALM BEACH	229664-7-52-01

INTERCONNECT PLAN

SHEET NO.
T-19

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



NOTES:

1. REMOVE EXISTING PBC-ITS PULL BOX AT STA 349+35.
   REMOVE EXISTING 4-2" PVC CONDUITS FROM STA 347+45 TO STA 352+30.

3. CONSTRUCT NEW PBC-ITS SMALL PULL BOX (17"X30"X24"D) AT STA 347+45.
   CONSTRUCT NEW 2-2" PVC UNDERGROUND CONDUITS FROM STA 347+45 TO STA 352+30.

4. INSTALL 48 FIBER OPTIC CABLE IN NEW CONDUITS AND EXISTING CONDUITS.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Q. AMIN AHMED, P.E.
P.E. LICENSE NUMBER 52564
STANLEY CONSULTANTS INC.
1641 WORTHINGTON ROAD, SUITE 400
WEST PALM BEACH, FLORIDA 33409

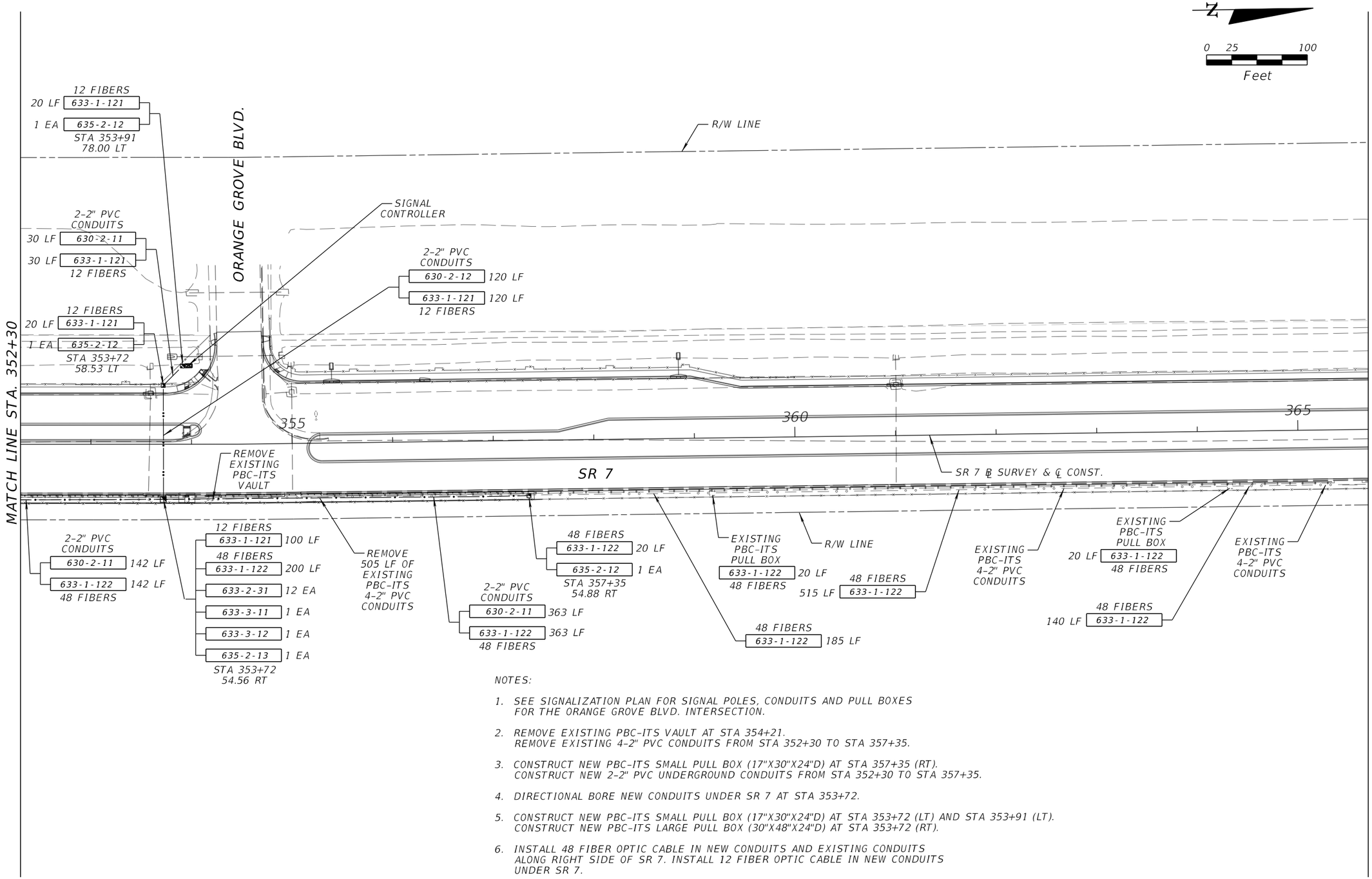
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 7	PALM BEACH	229664-7-52-01

INTERCONNECT PLAN

SHEET NO.
T-20

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



NOTES:

1. SEE SIGNALIZATION PLAN FOR SIGNAL POLES, CONDUITS AND PULL BOXES FOR THE ORANGE GROVE BLVD. INTERSECTION.
2. REMOVE EXISTING PBC-ITS VAULT AT STA 354+21.
   REMOVE EXISTING 4-2" PVC CONDUITS FROM STA 352+30 TO STA 357+35.
3. CONSTRUCT NEW PBC-ITS SMALL PULL BOX (17"X30"X24"D) AT STA 357+35 (RT).
   CONSTRUCT NEW 2-2" PVC UNDERGROUND CONDUITS FROM STA 352+30 TO STA 357+35.
4. DIRECTIONAL BORE NEW CONDUITS UNDER SR 7 AT STA 353+72.
5. CONSTRUCT NEW PBC-ITS SMALL PULL BOX (17"X30"X24"D) AT STA 353+72 (LT) AND STA 353+91 (LT).
   CONSTRUCT NEW PBC-ITS LARGE PULL BOX (30"X48"X24"D) AT STA 353+72 (RT).
6. INSTALL 48 FIBER OPTIC CABLE IN NEW CONDUITS AND EXISTING CONDUITS ALONG RIGHT SIDE OF SR 7. INSTALL 12 FIBER OPTIC CABLE IN NEW CONDUITS UNDER SR 7.
7. INSTALL 12 FIBER FIBER T SPLICE CONNECTION AT LARGE PULL BOX AT STA 353+72 (RT).
8. INSTALL 12 FIBER TERMINATION CONNECTION AT CONTROLLER.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

O. AMIN AHMED, P.E.
P.E. LICENSE NUMBER 52564
STANLEY CONSULTANTS INC.
1641 WORTHINGTON ROAD, SUITE 400
WEST PALM BEACH, FLORIDA 33409

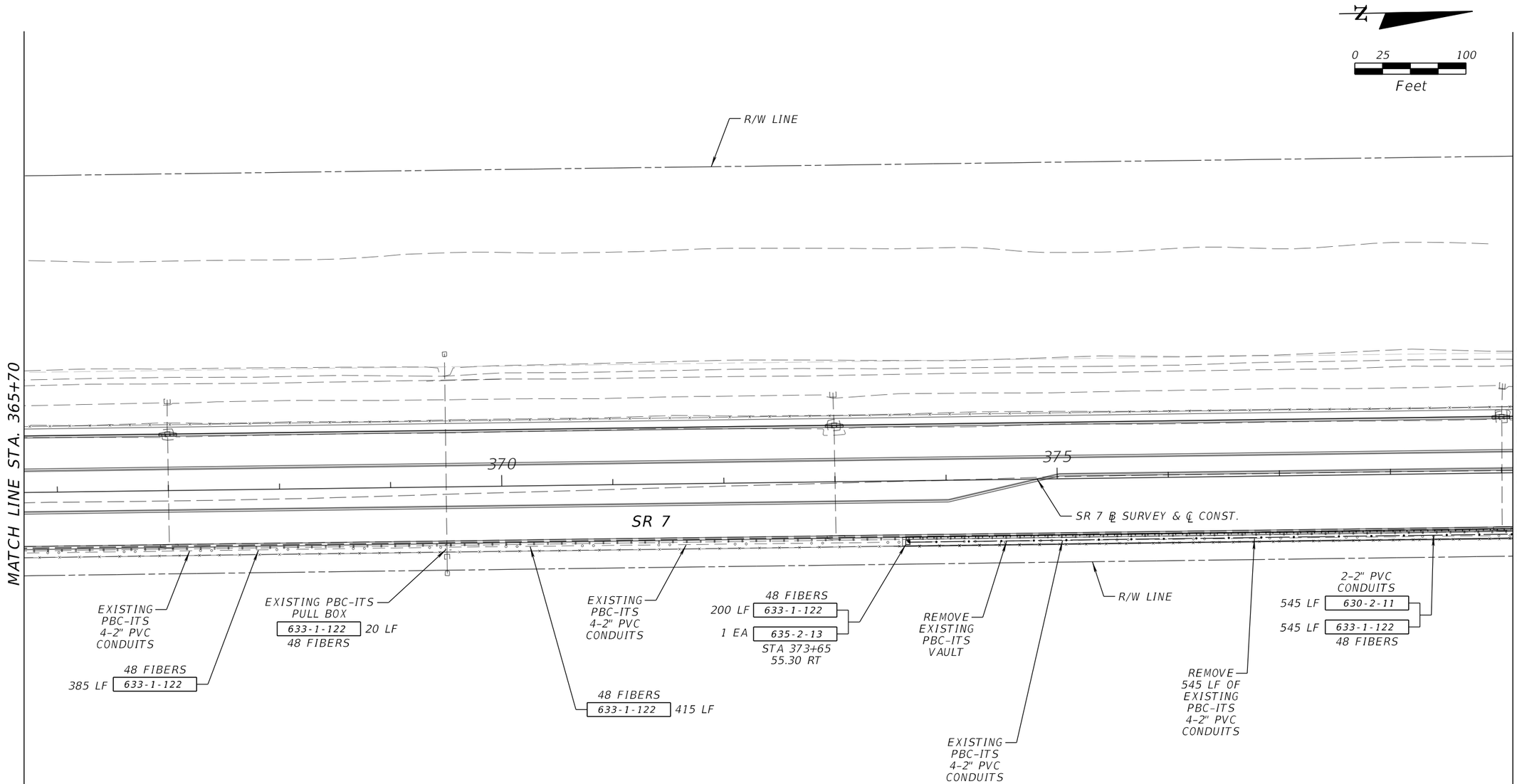
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 7	PALM BEACH	229664-7-52-01

INTERCONNECT PLAN

SHEET NO. T-21

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



NOTES:

1. REMOVE EXISTING 4-2" PVC CONDUITS FROM STA 373+65 TO STA 379+10.
3. CONSTRUCT NEW PBC-ITS LARGE PULL BOX (30"X48"X24"D) AT STA 373+65. CONSTRUCT NEW 2-2" PVC UNDERGROUND CONDUITS FROM STA 373+65 TO STA 379+10.
4. INSTALL 48 FIBER OPTIC CABLE IN NEW CONDUITS AND EXISTING CONDUITS.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Q. AMIN AHMED, P.E.
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STANLEY CONSULTANTS INC.
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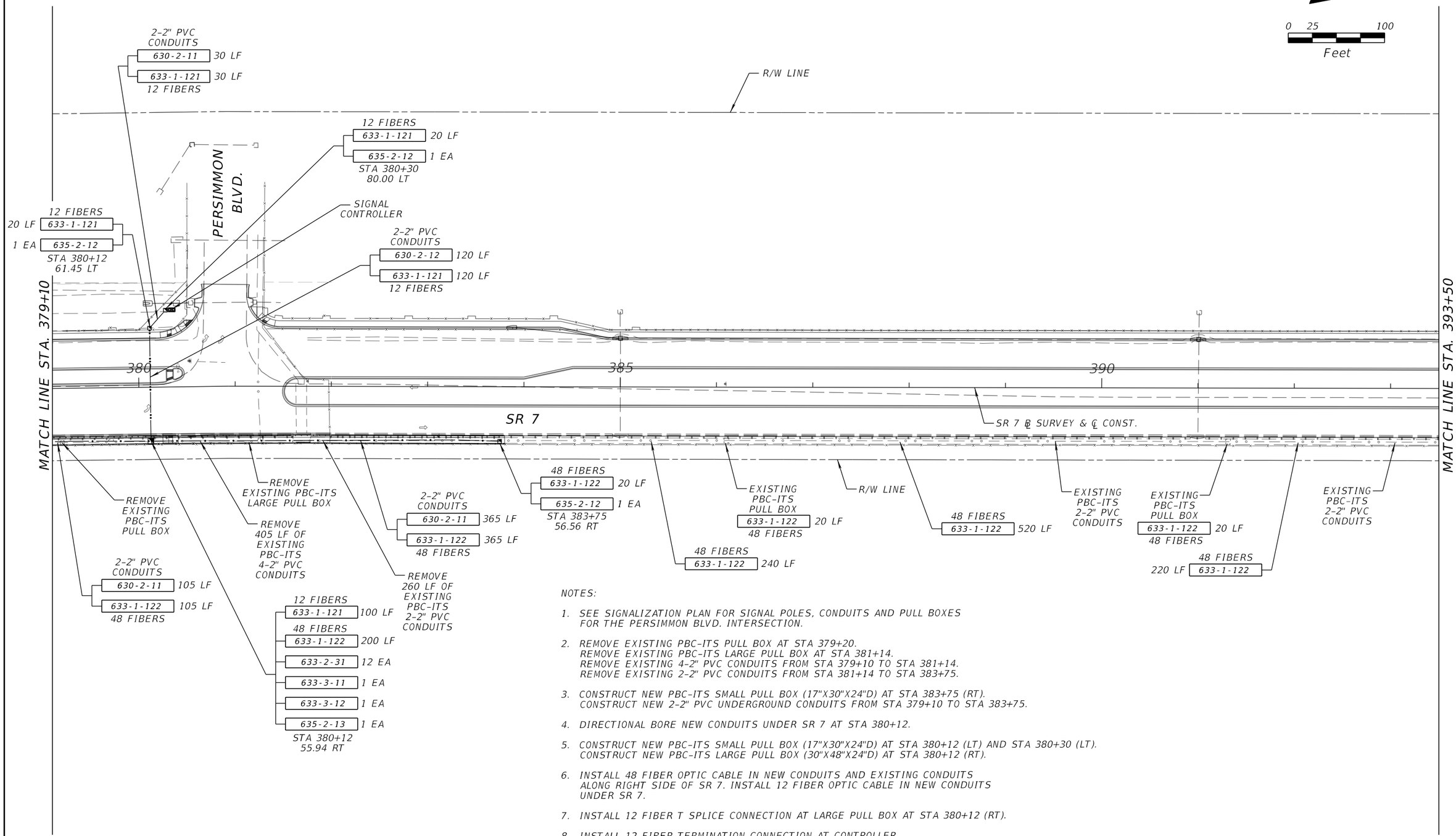
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 7	PALM BEACH	229664-7-52-01

INTERCONNECT PLAN

SHEET NO. T-22

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



NOTES:

1. SEE SIGNALIZATION PLAN FOR SIGNAL POLES, CONDUITS AND PULL BOXES FOR THE PERSIMMON BLVD. INTERSECTION.
2. REMOVE EXISTING PBC-ITS PULL BOX AT STA 379+20.
   REMOVE EXISTING PBC-ITS LARGE PULL BOX AT STA 381+14.
   REMOVE EXISTING 4-2" PVC CONDUITS FROM STA 379+10 TO STA 381+14.
   REMOVE EXISTING 2-2" PVC CONDUITS FROM STA 381+14 TO STA 383+75.
3. CONSTRUCT NEW PBC-ITS SMALL PULL BOX (17"X30"X24"D) AT STA 383+75 (RT).
   CONSTRUCT NEW 2-2" PVC UNDERGROUND CONDUITS FROM STA 379+10 TO STA 383+75.
4. DIRECTIONAL BORE NEW CONDUITS UNDER SR 7 AT STA 380+12.
5. CONSTRUCT NEW PBC-ITS SMALL PULL BOX (17"X30"X24"D) AT STA 380+12 (LT) AND STA 380+30 (LT).
   CONSTRUCT NEW PBC-ITS LARGE PULL BOX (30"X48"X24"D) AT STA 380+12 (RT).
6. INSTALL 48 FIBER OPTIC CABLE IN NEW CONDUITS AND EXISTING CONDUITS ALONG RIGHT SIDE OF SR 7. INSTALL 12 FIBER OPTIC CABLE IN NEW CONDUITS UNDER SR 7.
7. INSTALL 12 FIBER T SPLICE CONNECTION AT LARGE PULL BOX AT STA 380+12 (RT).
8. INSTALL 12 FIBER TERMINATION CONNECTION AT CONTROLLER.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Q. AMIN AHMED, P.E.
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

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SR 7	PALM BEACH	229664-7-52-01

INTERCONNECT PLAN

SHEET NO. T-23

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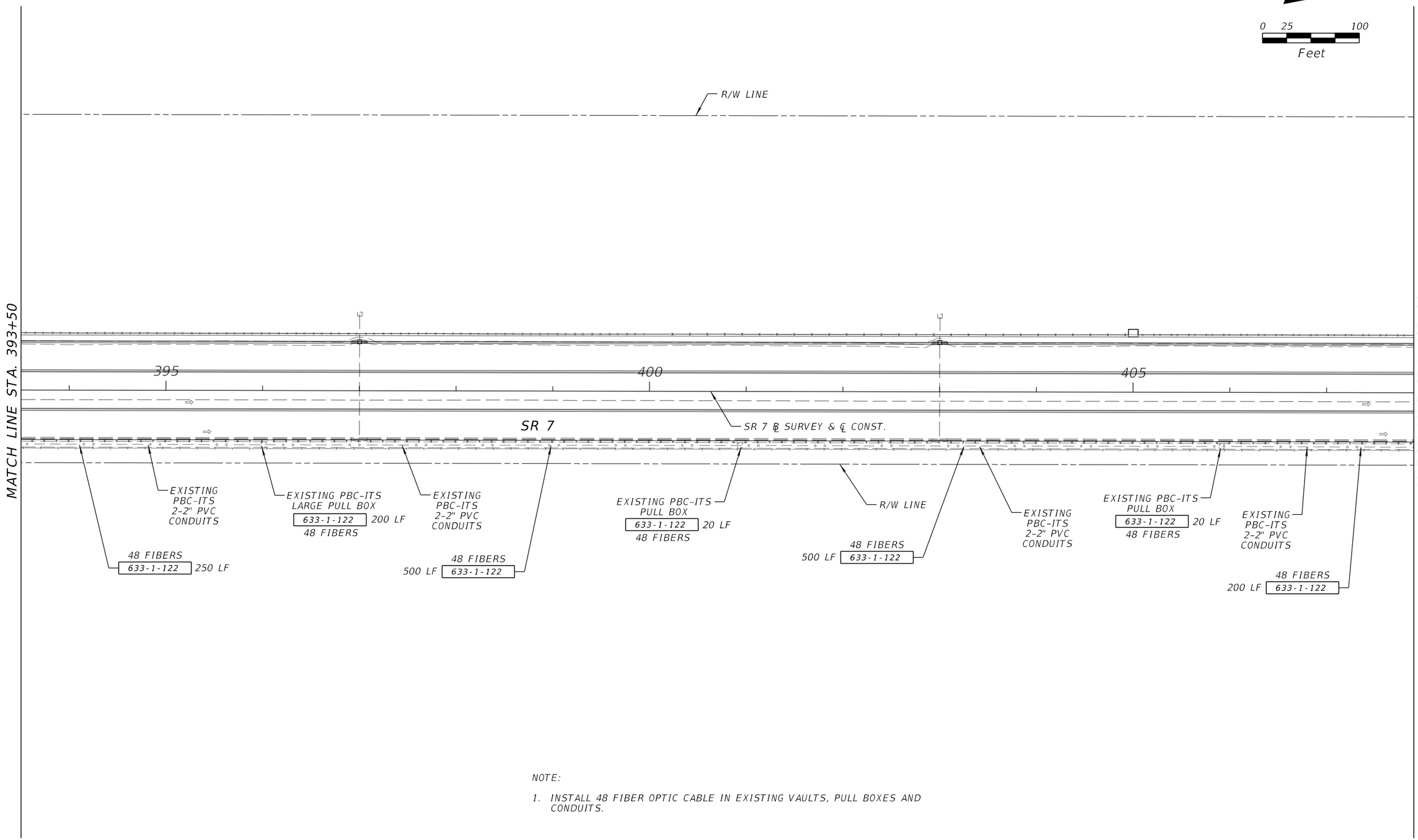

NOTE:

1. INSTALL 48 FIBER OPTIC CABLE IN EXISTING VAULTS, PULL BOXES AND CONDUITS.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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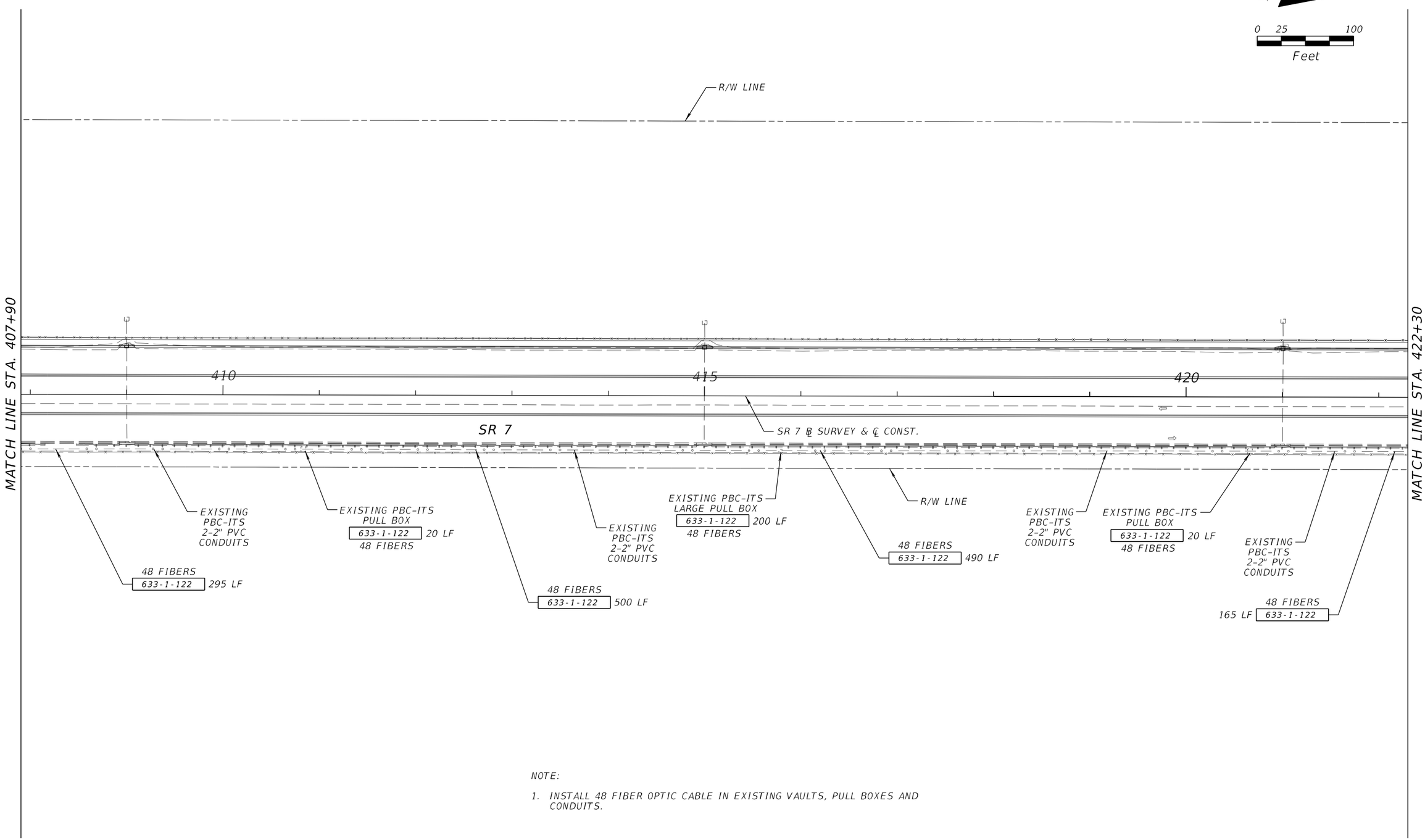
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 7	PALM BEACH	229664-7-52-01

INTERCONNECT PLAN

SHEET NO.
T-24

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



NOTE:

1. INSTALL 48 FIBER OPTIC CABLE IN EXISTING VAULTS, PULL BOXES AND CONDUITS.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Q. AMIN AHMED, P.E.
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1641 WORTHINGTON ROAD, SUITE 400
WEST PALM BEACH, FLORIDA 33409

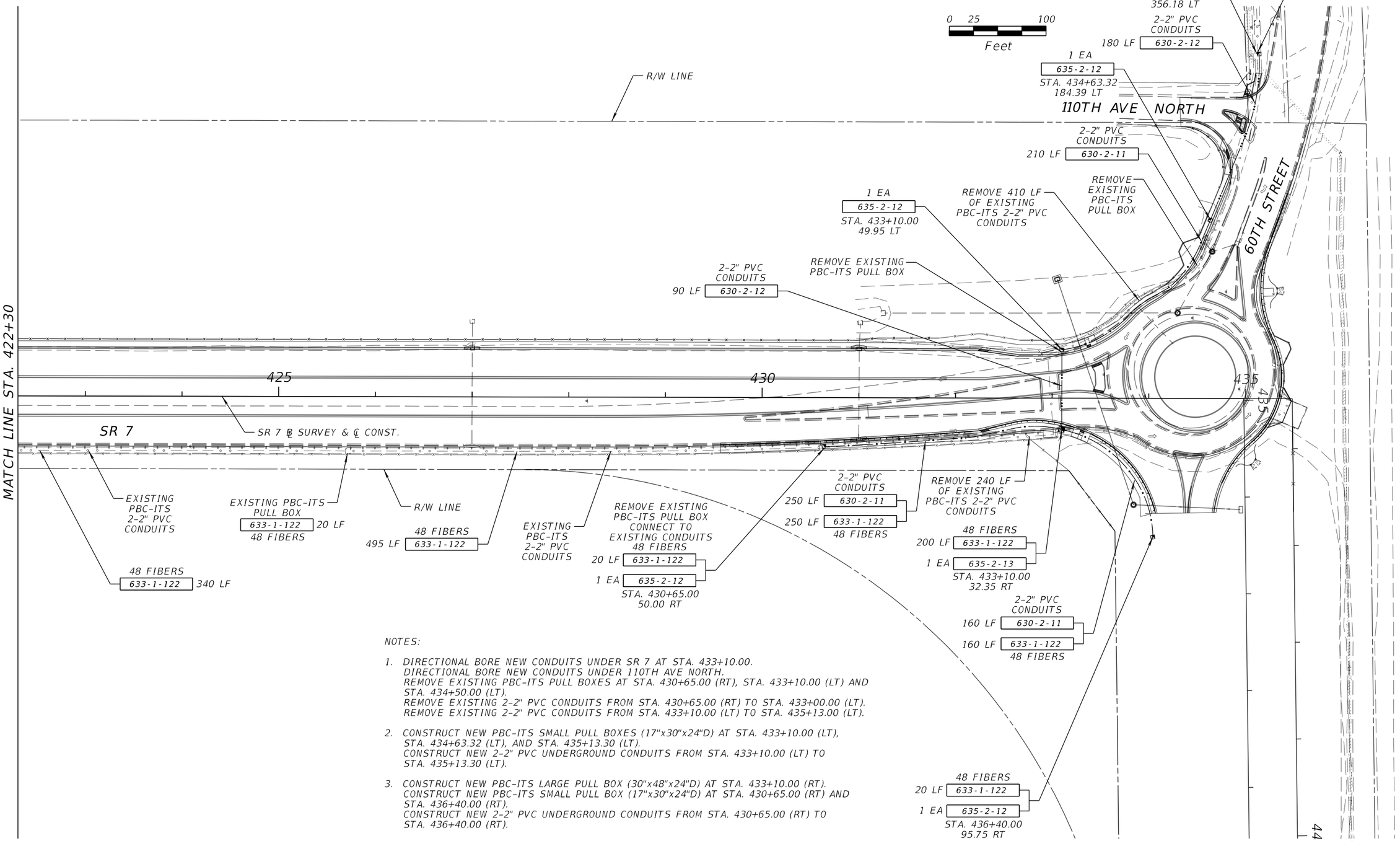
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 7	PALM BEACH	229664-7-52-01

INTERCONNECT PLAN

SHEET NO.
T-25

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



NOTES:

1. DIRECTIONAL BORE NEW CONDUITS UNDER SR 7 AT STA. 433+10.00.
   DIRECTIONAL BORE NEW CONDUITS UNDER 110TH AVE NORTH.
   REMOVE EXISTING PBC-ITS PULL BOXES AT STA. 430+65.00 (RT), STA. 433+10.00 (LT) AND STA. 434+50.00 (LT).
   REMOVE EXISTING 2-2" PVC CONDUITS FROM STA. 430+65.00 (RT) TO STA. 433+00.00 (LT).
   REMOVE EXISTING 2-2" PVC CONDUITS FROM STA. 433+10.00 (LT) TO STA. 435+13.00 (LT).

2. CONSTRUCT NEW PBC-ITS SMALL PULL BOXES (17"x30"x24"D) AT STA. 433+10.00 (LT), STA. 434+63.32 (LT), AND STA. 435+13.30 (LT).
   CONSTRUCT NEW 2-2" PVC UNDERGROUND CONDUITS FROM STA. 433+10.00 (LT) TO STA. 435+13.30 (LT).

3. CONSTRUCT NEW PBC-ITS LARGE PULL BOX (30"x48"x24"D) AT STA. 433+10.00 (RT).
   CONSTRUCT NEW PBC-ITS SMALL PULL BOX (17"x30"x24"D) AT STA. 430+65.00 (RT) AND STA. 436+40.00 (RT).
   CONSTRUCT NEW 2-2" PVC UNDERGROUND CONDUITS FROM STA. 430+65.00 (RT) TO STA. 436+40.00 (RT).

4. INSTALL 48 FIBER OPTIC CABLE IN NEW CONDUITS AND EXISTING CONDUITS EXCEPT IN DIRECTIONAL BORE AT STA. 433+10.00 AND IN NEW CONDUIT FROM STA. 433+10.00 (LT) TO STA. 435+13.30 (LT).

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

O. AMIN AHMED, P.E.
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STANLEY CONSULTANTS INC.
1641 WORTHINGTON ROAD, SUITE 400
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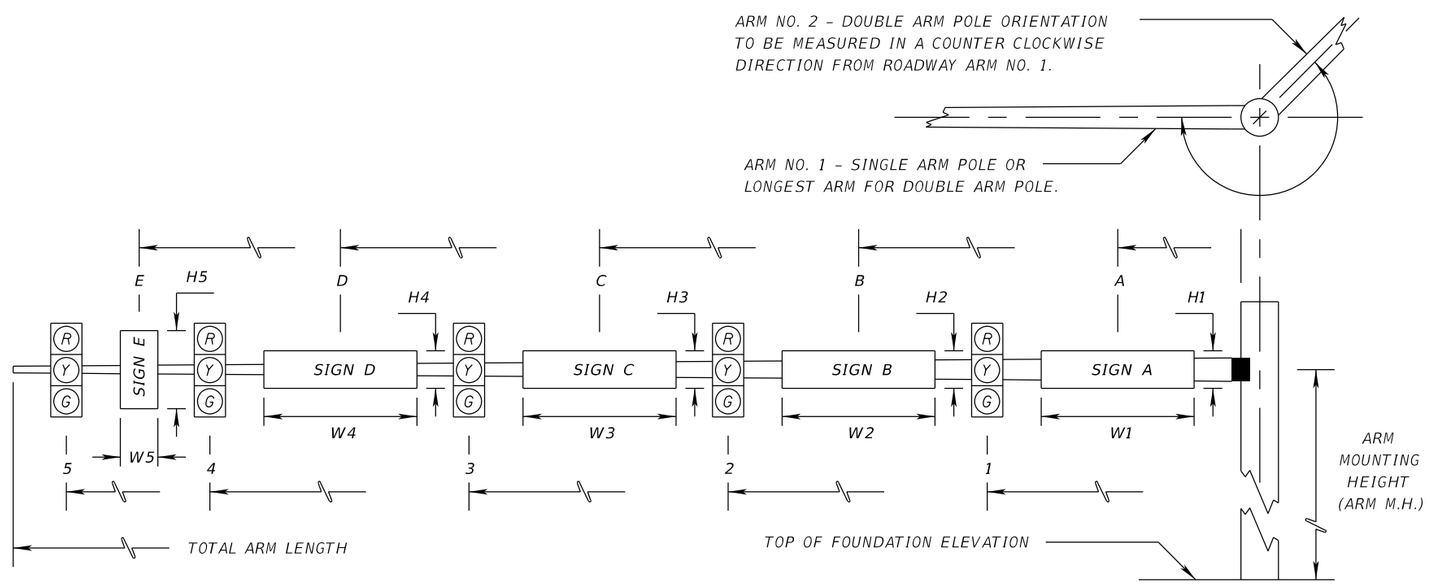
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 7	PALM BEACH	229664-7-52-01

INTERCONNECT PLAN

SHEET NO. T-26

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



* DENOTES NUMBER OF SECTIONS IN SIGNAL HEAD ASSEMBLY

	ID NO.	SHEET NO.	LOCATION BY STA.	TOP OF FOUNDATION ELEVATION	RDWY ARM NO.	CROWN ELEV.	SIGNAL DATA: SIGNAL V/H	BACK PLATES Y/N	PED. SIGNAL Y/N	DISTANCE FROM POLE: 1	*	2	*	3	*	4	*	5	*	TOTAL ARM LENGTH	ARM M.H.	∠ BETWEEN DUAL ARMS 90/270	SIGN DATA: DISTANCE FROM POLE / HEIGHT AND WIDTH OF SIGN: A	H1	W1	B	H2	W2	C	H3	W3	D	H4	W4	E	H5	W5	PAINT COLOR
	1-1	T-7	247+43.00	21.85	1	21.6	V	Y	N	15′	5	40′	5							45′	21′		6′	2′-0″	8′-0″															N/A
	1-2	T-7	248+30.00	21.54	1	21.6	V	Y	N	25′	3	38′	5							46′	21′		9′	2′-0″	6′-0″															N/A
	1-3	T-7	248+50.00	21.60	1	22.0	V	Y	N	20′	3	36′	5							46′	21′		8′	2′-0″	8′-0″															N/A
	2-1	T-8	353+80.00	22.00	1	21.8	V	Y	N	15′	5	40′	5							45′	21′		6′	2′-0″	8′-0″															N/A
	2-2	T-8	354+75.00	20.99	1	21.0	V	Y	N	24′	3	37′	5							46′	21′		12′	2′-0″	6′-0″															N/A
	2-3	T-8	354+90.00	20.98	1	21.4	V	Y	N	19′	3	30′	3	52′	3					57′	21′		8′	2′-0″	8′-0″															N/A
	3-1	T-9	380+20.00	21.90	1	21.7	V	Y	N	15′	5	40′	5							45′	21′		6′	2′-0″	8′-0″															N/A
	3-2	T-9	381+10.00	21.59	1	21.6	V	Y	N	26′	3	38′	5							46′	21′		9′	2′-0″	6′-0″															N/A
	3-3	T-9	381+30.00	21.65	1	21.9	V	Y	N	19′	3	30′	3	52′	3					57′	21′		8′	2′-0″	8′-0″															N/A
*	2-3	T-8	354+90.00	20.98	1	21.4	V	Y	N	19′	3	30′	3	41′	3	52′	3			57′	21′		8′	2′-0″	8′-0″															N/A
*	3-3	T-9	381+30.00	21.65	1	21.9	V	Y	N	19′	3	30′	3	41′	3	52′	3			57′	21′		8′	2′-0″	8′-0″															N/A

* ANTICIPATED FUTURE LOADING TO ACCOMMODATE NB DUAL LEFT TURN LANES

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Q. AMIN AHMED, P.E.
P.E. LICENSE NUMBER 52564
STANLEY CONSULTANTS INC.
1641 WORTHINGTON ROAD, SUITE 400
WEST PALM BEACH, FLORIDA 33409

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 7	PALM BEACH	229664-7-52-01

MAST ARM TABULATION

SHEET NO. T-27

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

STANDARD MAST ARM ASSEMBLIES DATA TABLE

Table Date 11-18-20

STRUCTURE ID NUMBERS	DESIGNATION	FIRST ARM		SECOND ARM		UF (deg)	LL (deg)	POLE			DRILLED SHAFT ID
		ARM ID	FAA (ft.)	ARM ID	SAA (ft.)			POLE ID	UAA (ft.)	UB (ft.)	
1-1	A50/S - P3/S	A50/S	45					P3/S		21	DS/18/5.0
1-2	A50/S - P3/S	A50/S	46					P3/S		21	DS/18/5.0
1-3	A50/S - P3/S	A50/S	46					P3/S		21	DS/18/5.0
2-1	A50/S - P3/S	A50/S	45					P3/S		21	DS/16/4.5
2-2	A50/S - P3/S	A50/S	46					P3/S		21	DS/16/4.5
2-3	A60/S - P4/S	A60/S	57					P4/S		21	DS/18/5.0
3-1	A50/S - P3/S	A50/S	45					P3/S		21	DS/16/4.5
3-2	A50/S - P3/S	A50/S	46					P3/S		21	DS/18/5.0
3-3	A60/S - P4/S	A60/S	57					P4/S		21	DS/18/5.0

NOTES:

1. If an entry appears in column FAA, a shorter arm is required. This is obtained by removing length from the arm tip and the arm length shortened from FA to FAA. SAA Similar.

2. If an entry appears in column UAA, a shorter pole is required. This is obtained by removing length from the pole tip and the pole height shortened from UA to UAA.

3. Arm mounting height UB must be between 18-22 feet.

4. Pole types P2 and larger require a minimum 4.5 foot diameter drilled shaft. Pole types P5 and larger require a minimum 5.0 foot diameter drilled shaft.

5. Work this sheet with the Signal Designer's "Mast Arm Tabulation". See "Mast Arm Tabulation" for special instructions that include non-standard Handhole location, paint color, terminal compartment requirement, and pedestrian features.

6. Work with Standard Plans Index Nos. 649-030 and 649-031.

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ERIC HUSKEY, P.E.
P.E. LICENSE NUMBER 56593
STANLEY CONSULTANTS INC.
1641 WORTHINGTON ROAD, SUITE 400
WEST PALM BEACH, FLORIDA 33409
CERTIFICATE OF AUTHORIZATION 1978

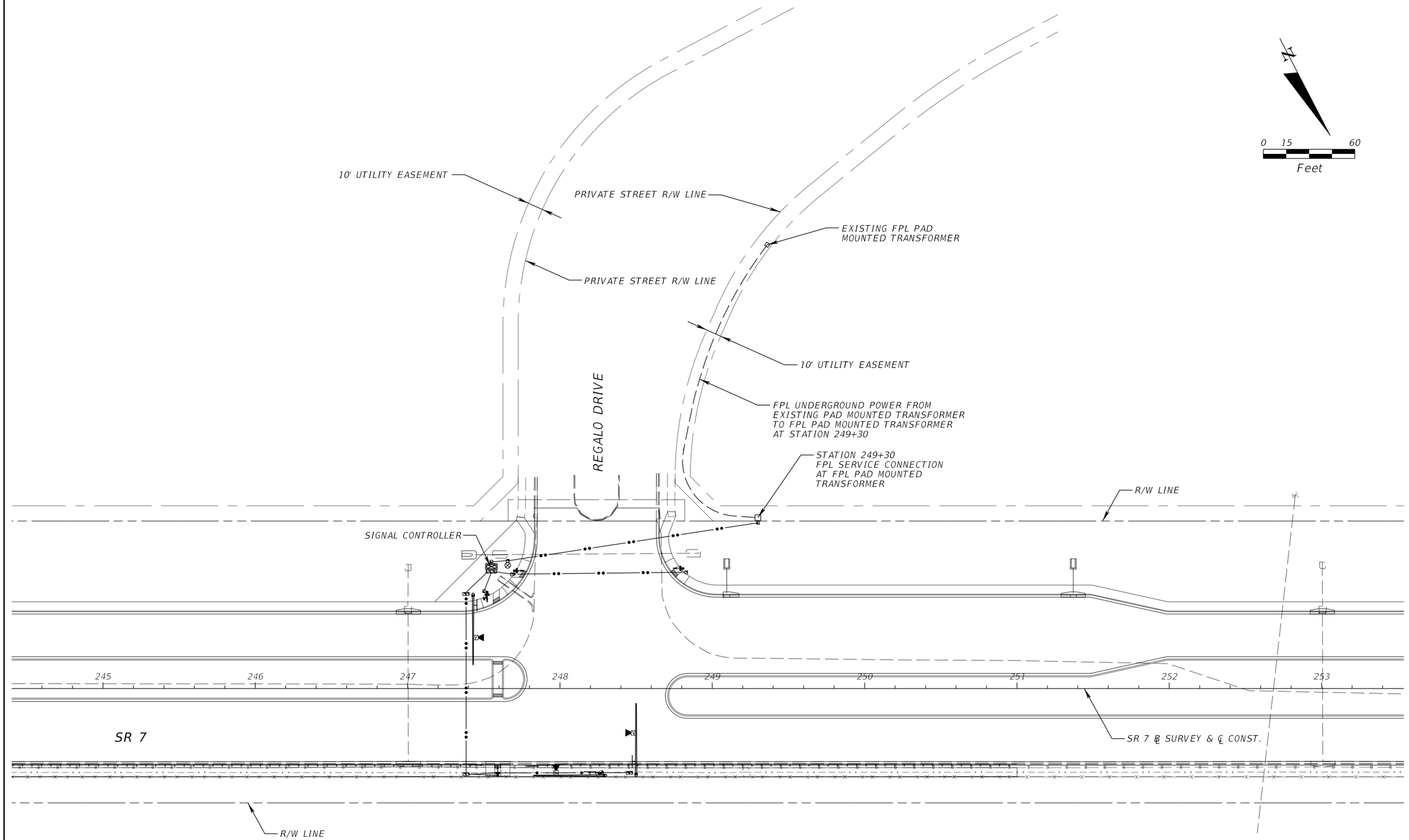
100
9

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 7	PALM BEACH	229664-7-52-01

STANDARD MAST ARM ASSEMBLIES

SHEET NO.
T-28



REGALO DRIVE INTERSECTION

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Q. AMIN AHMED, P.E.
P.E. LICENSE NUMBER 52564
STANLEY CONSULTANTS INC.
1641 WORTHINGTON ROAD, SUITE 400
WEST PALM BEACH, FLORIDA 33409

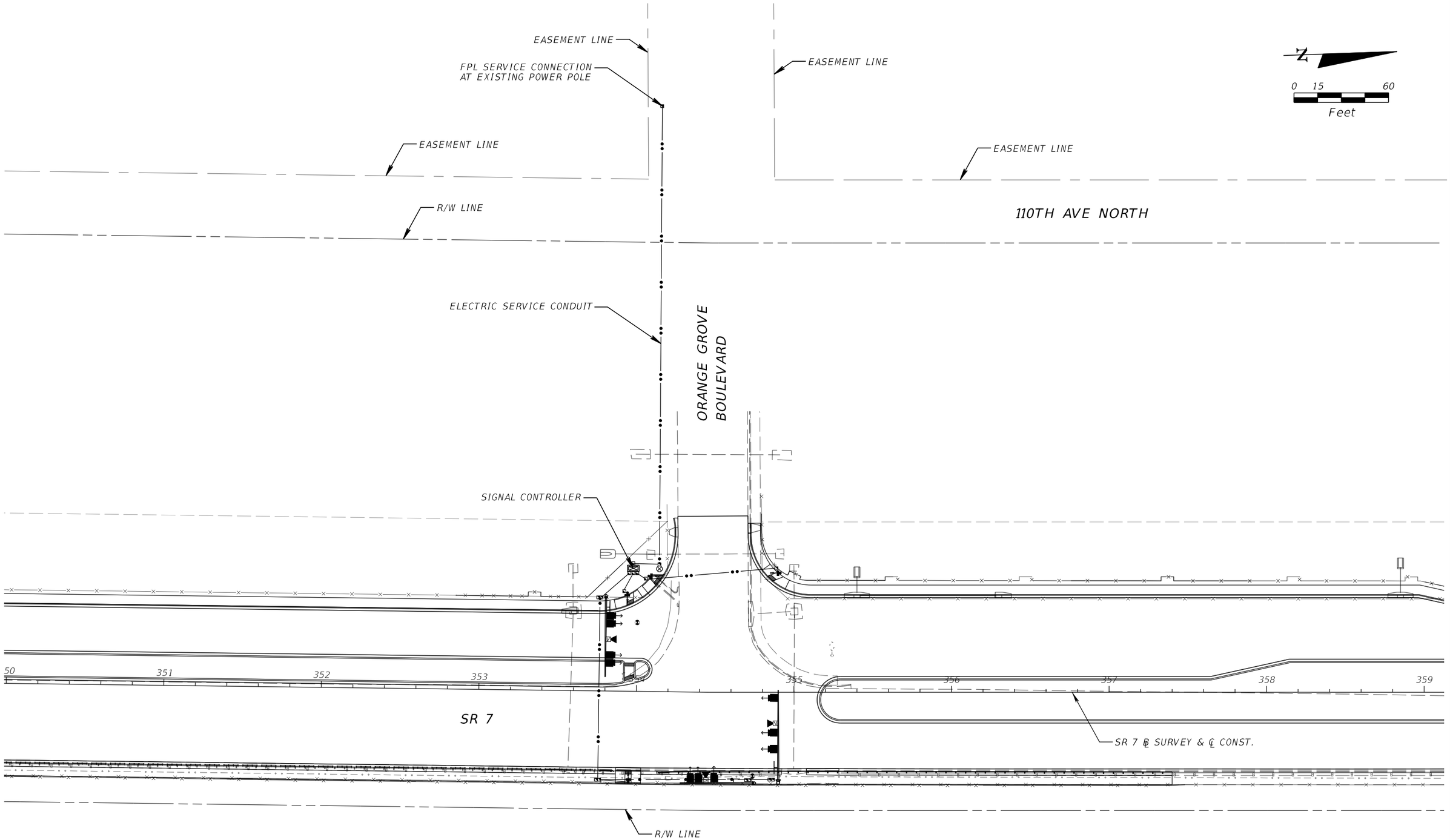
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 7	PALM BEACH	229664-7-52-01

SERVICE POINT LOCATION DETAIL

SHEET NO.
T-29

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



ORANGE GROVE BLVD. INTERSECTION

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

O. AMIN AHMED, P.E.
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STANLEY CONSULTANTS INC.
1641 WORTHINGTON ROAD, SUITE 400
WEST PALM BEACH, FLORIDA 33409

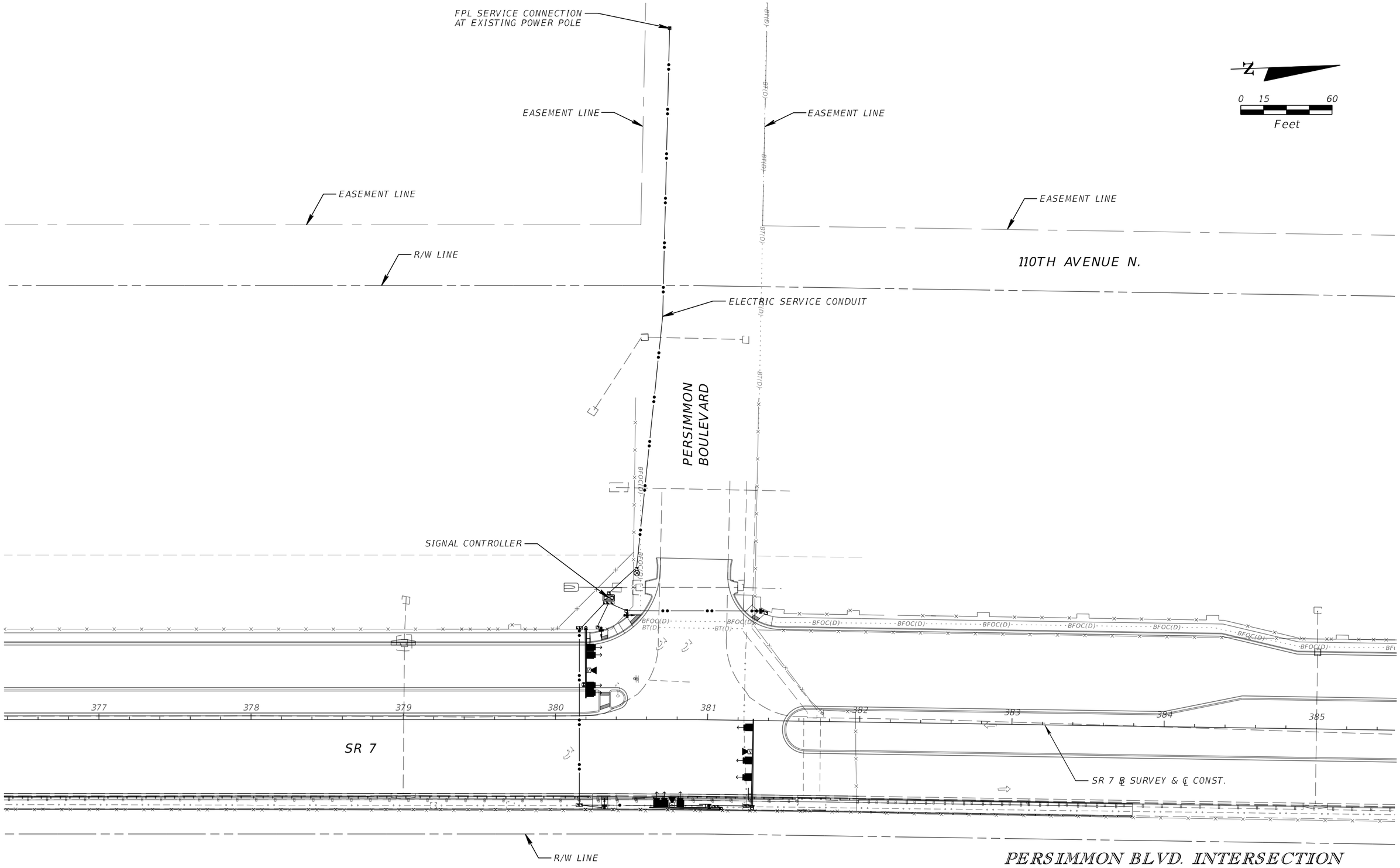
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 7	PALM BEACH	229664-7-52-01

SERVICE POINT LOCATION DETAIL

SHEET NO.
T-30

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



PERSIMMON BLVD. INTERSECTION

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Q. AMIN AHMED, P.E.
P.E. LICENSE NUMBER 52564
STANLEY CONSULTANTS INC.
1641 WORTHINGTON ROAD, SUITE 400
WEST PALM BEACH, FLORIDA 33409

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

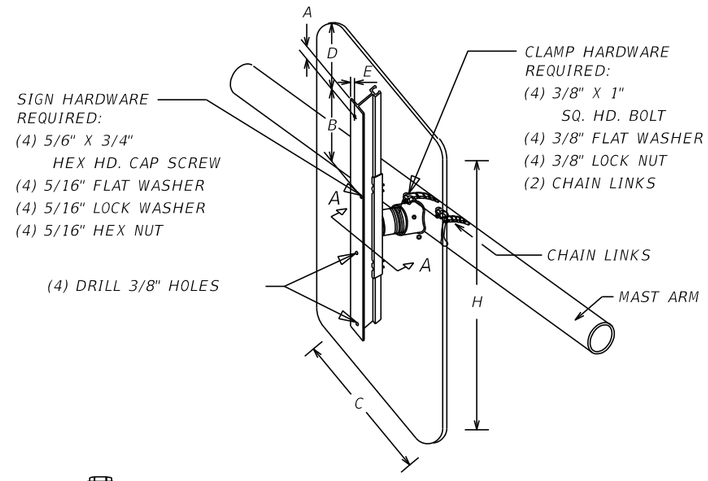
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 7	PALM BEACH	229664-7-52-01

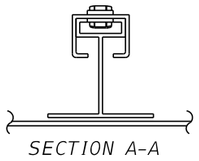
SERVICE POINT LOCATION DETAIL

SHEET NO. T-31

5426 2/10/2021 1:09:47 PM \\wpb-fs1\Proj_fdot\23437\Active\11-CADD\22966475201\signals\PLANSG33.DGN

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

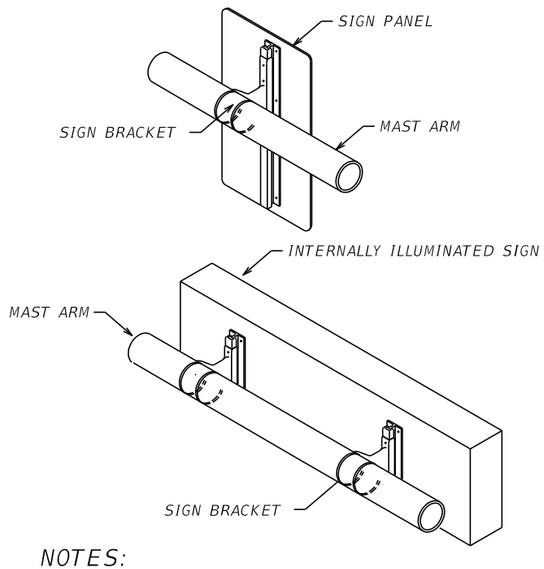




SIGN SIZE					
H	A	B	C	D	E
24"	1/2"	6"	20"	2"	1/2"
30"	1/2"	8"	26"	2"	1/2"
36"	1/2"	10"	32"	2"	1/2"
48"	1/2"	14"	44"	2"	1/2"

SIGN MOUNTING DETAIL

N.T.S.

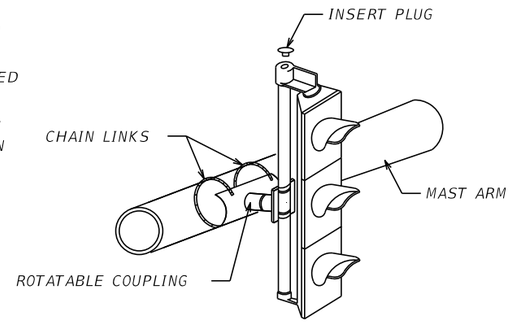


NOTES:

1. VERTICAL ADJUSTMENT SHALL BE POSSIBLE WITHOUT REMOVAL OF THE SIGN BRACKET. THE SIGN PANELS SHALL BE CENTERED VERTICALLY ON THE MAST ARM.
2. TWO SIGN BRACKETS AND WIND-BEAMS ARE REQUIRED FOR ALL SIGN PANELS OVER 36 INCHES WIDE.

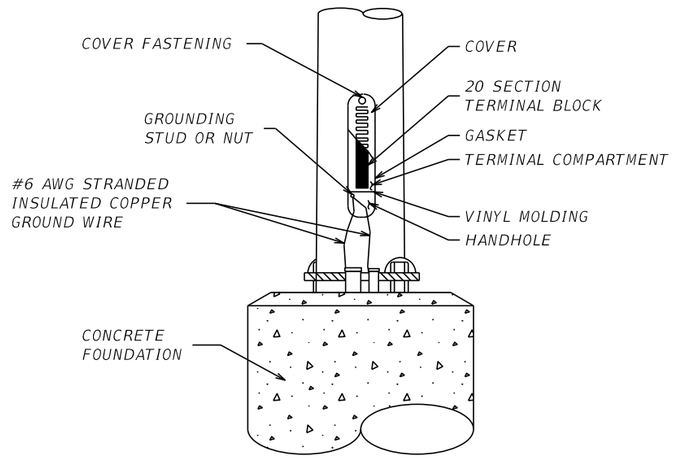
NOTES:

1. HORIZONTAL ADJUSTMENT SHALL BE PROVIDED FOR WITHOUT REMOVING THE ARM BRACKET.
2. SIGNAL CABLE SHALL BE COMPLETELY CONCEALED FROM THE MAST ARM TO THE SIGNAL HEADS BY UTILIZING A TUBE AND HOLLOW BRACKETS.
3. FIELD DRILL ENTRY HOLE FOR SIGNAL CABLE IN MAST ARM AND FIT WITH RUBBER GROMMET.



ADJUSTABLE SIGNAL MOUNTING DETAIL HORIZONTAL OR VERTICAL INSTALLATION

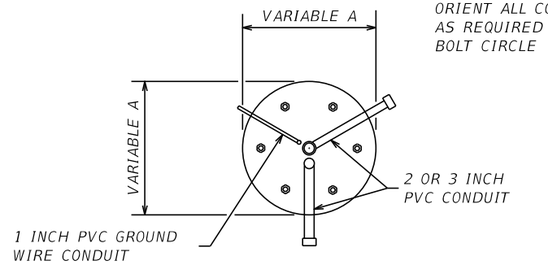
N.T.S.



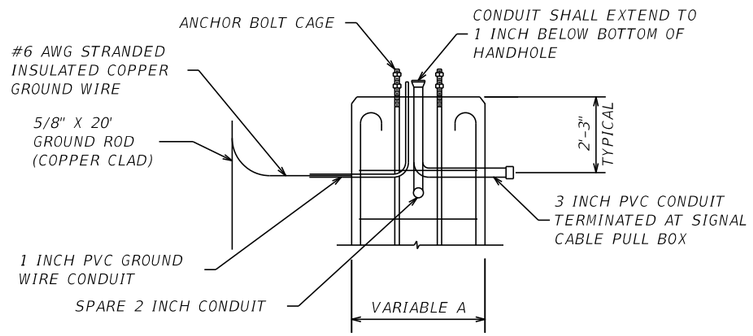
POLE ON BASE DETAIL

N.T.S.

NOTE:
ORIENT ALL CONDUIT AS REQUIRED TO AVOID BOLT CIRCLE



PLAN



PROFILE

FOUNDATION CONDUIT DETAIL

N.T.S.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Q. AMIN AHMED, P.E.
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STANLEY CONSULTANTS INC.
1641 WORTHINGTON ROAD, SUITE 400
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

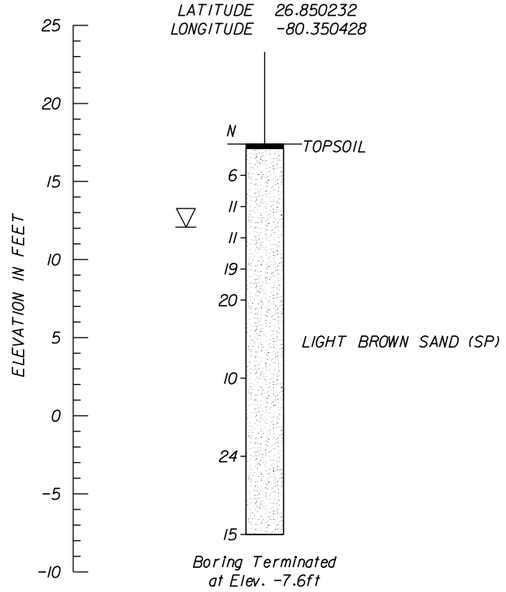
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 7	PALM BEACH	229664-7-52-01

MAST ARM DETAIL

SHEET NO.
T-32

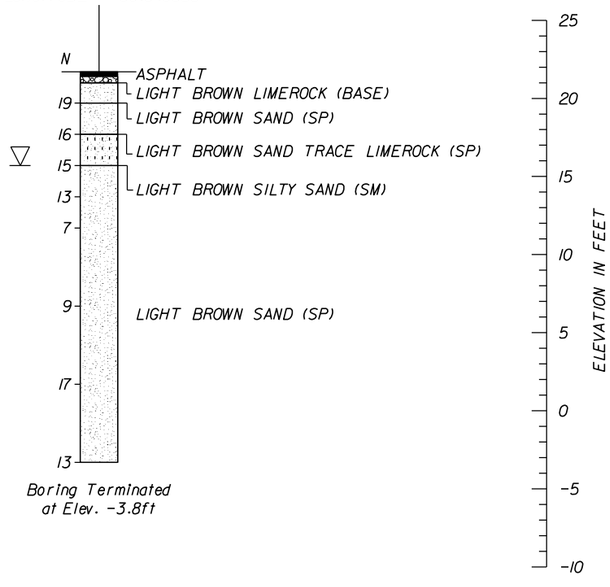
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

BOR # MA-1
STA. 247+50.00 SR 7
OFF. 95' LT
ELEV. 17.4
DATE 6/17/2015
HAMMER Auto
RIG D-50
NORTHING 867962.19
EASTING 915272.68
LATITUDE 26.850232
LONGITUDE -80.350428

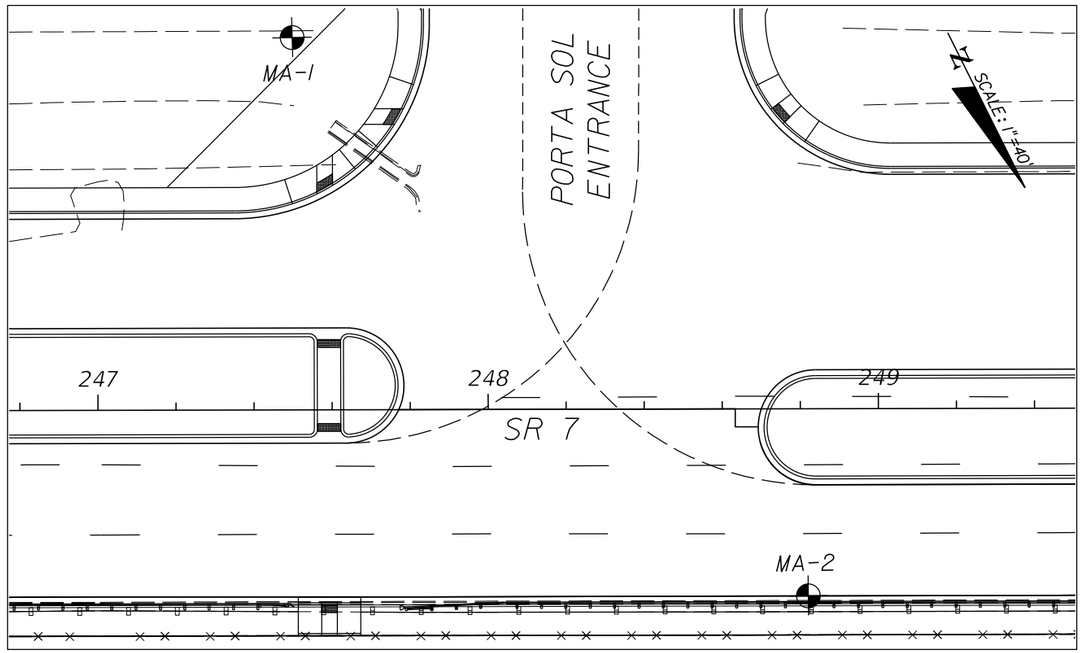


Boring Terminated at Elev. -7.6ft

BOR # MA-2
STA. 248+81.95 SR7EXTBL
OFF. 48.0' RT
ELEV. 21.2
DATE 6/17/2015
HAMMER Auto
RIG D-50
NORTHING 868149.25
EASTING 915218.27
LATITUDE 26.850079
LONGITUDE -80.349855



Boring Terminated at Elev. -3.8ft



Asphalt/Topsoil
Silty Sand
Sand
Sandy Gravel

NOTES:

▽ ENCOUNTERED WATER TABLE DURING DRILLING

N NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12" PENETRATION. (UNLESS OTHERWISE NOTED.)

MC=	NATURAL MOISTURE CONTENT (%)
-200=	FINES PASSING #200 SIEVE (%)
OC=	ORGANIC CONTENT (%)
LL=	LIQUID LIMIT (%)
PI=	PLASTICITY INDEX (%)
NP=	INDICATES NON-PLASTIC
WOH=	WEIGHT OF HAMMER

STRATA BOUNDARIES ARE APPROXIMATE AND MAY VARY BETWEEN OR AWAY FROM BORING LOCATIONS.

STANDARD PENETRATION TEST DATA

SPOON INSIDE DIA.	1.375 inches
SPOON OUTSIDE DIA.	2.0 inches
AVG. HAMMER DROP	30.0 inches
HAMMER WEIGHT	140.0 pounds

SPT CONSISTENCY CHART

SILTS AND CLAYS

CONSISTENCY	SAFETY HAMMER SPT N-VALUE (BLOW/FOOT)	AUTOMATIC HAMMER SPT N-VALUE (BLOW/FOOT)
VERY SOFT	LESS THAN 2	LESS THAN 1
SOFT	2 - 4	1 - 3
FIRM	4 - 8	3 - 6
STIFF	8 - 15	6 - 12
VERY STIFF	15 - 30	12 - 24
HARD	GREATER THAN 30	GREATER THAN 24

SPT DENSITY CHART

GRANULAR MATERIALS

RELATIVE DENSITY	SAFETY HAMMER SPT N-VALUE (BLOW/FOOT)	AUTOMATIC HAMMER SPT N-VALUE (BLOW/FOOT)
VERY LOOSE	LESS THAN 4	LESS THAN 3
LOOSE	4 - 10	3 - 8
MEDIUM	10 - 30	8 - 24
DENSE	30 - 50	24 - 40
VERY DENSE	GREATER THAN 50	GREATER THAN 40

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REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

RAJ KRISHNASAMY, P.E.
P.E. LICENSE NUMBER 53567
TIERRA SOUTH FLORIDA
2765 VISTA PARKWAY, S-10
WEST PALM BEACH, FL 33411

DRAWN BY: NG 09-2020
CHECKED BY: NM 09-2020
DESIGNED BY: NM 09-2020
CHECKED BY: RK 09-2020

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 7	PALM BEACH	229664-7-52-01

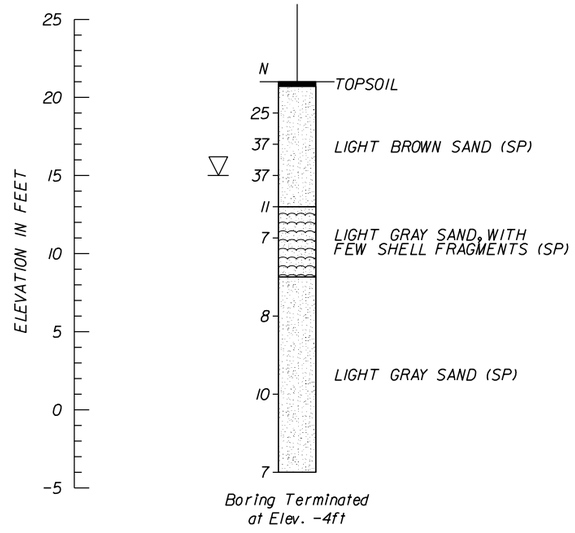
SHEET TITLE: REPORT OF CORE BORINGS FOR SIGNALS

REF. DWG. NO.:

PROJECT NAME: SR 7 FROM SR 704 (OKEECHOBEE BLVD.) TO 60TH STREET

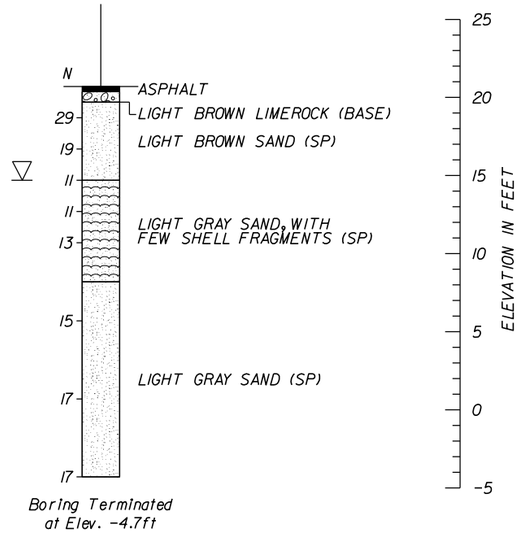
SHEET NO.: GT-1

BOR # MA-3
STA. 353+90.00 SR7EXTBL
OFF. 46' LT
ELEV. 21
DATE 6/17/2015
HAMMER Auto
RIG D-50
NORTHING 876629.96
EASTING 912437.14
LATITUDE 26.842307
LONGITUDE -80.323892

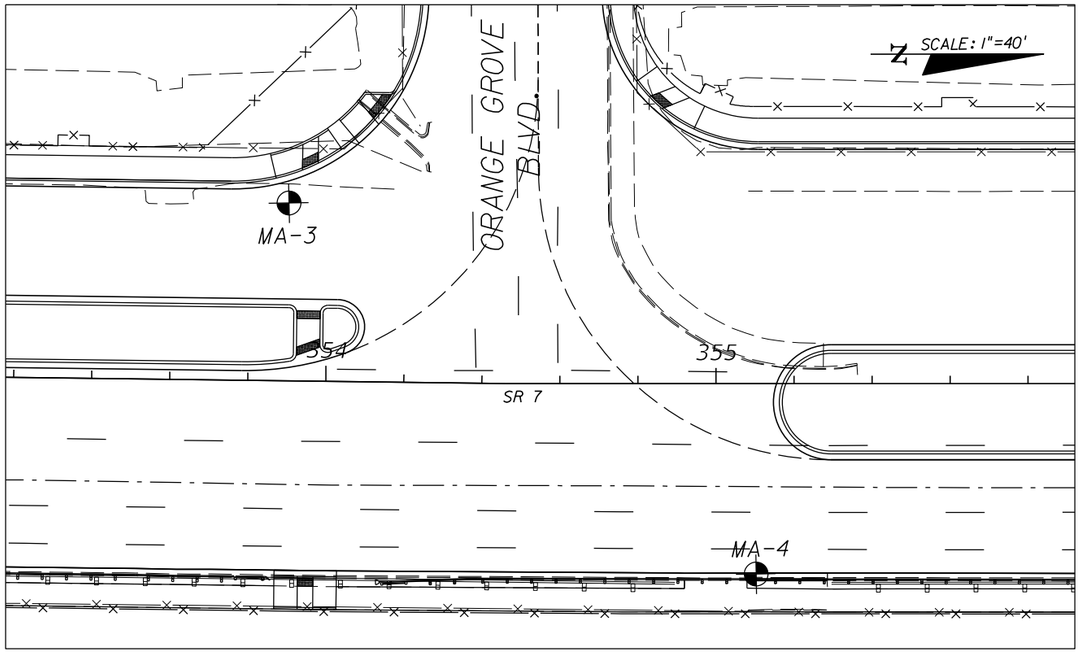


Boring Terminated at Elev. -4ft

BOR # MA-4
STA. 355+10.31 SRREXTBL
OFF. 49.0' RT
ELEV. 20.3
DATE 6/17/2015
HAMMER Auto
RIG D-50
NORTHING 876748.00
EASTING 912534.25
LATITUDE 26.842572
LONGITUDE -80.323528



Boring Terminated at Elev. -4.7ft



Asphalt/Topsoil
Shelly Sand
Sand
Sandy Gravel

NOTES:

▽ ENCOUNTERED WATER TABLE DURING DRILLING

N NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12" PENETRATION. (UNLESS OTHERWISE NOTED.)

MC=	NATURAL MOISTURE CONTENT (%)
-200=	FINES PASSING #200 SIEVE (%)
OC=	ORGANIC CONTENT (%)
LL=	LIQUID LIMIT (%)
PI=	PLASTICITY INDEX (%)
NP=	INDICATES NON-PLASTIC
WOH=	WEIGHT OF HAMMER

STRATA BOUNDARIES ARE APPROXIMATE AND MAY VARY BETWEEN OR AWAY FROM BORING LOCATIONS.

STANDARD PENETRATION TEST DATA

SPOON INSIDE DIA.	1.375 inches
SPOON OUTSIDE DIA.	2.0 inches
AVG. HAMMER DROP	30.0 inches
HAMMER WEIGHT	140.0 pounds

SPT CONSISTENCY CHART

SILTS AND CLAYS

CONSISTENCY	SAFETY HAMMER SPT N-VALUE (BLOW/FOOT)	AUTOMATIC HAMMER SPT N-VALUE (BLOW/FOOT)
VERY SOFT	LESS THAN 2	LESS THAN 1
SOFT	2 - 4	1 - 3
FIRM	4 - 8	3 - 6
STIFF	8 - 15	6 - 12
VERY STIFF	15 - 30	12 - 24
HARD	GREATER THAN 30	GREATER THAN 24

SPT DENSITY CHART

GRANULAR MATERIALS

RELATIVE DENSITY	SAFETY HAMMER SPT N-VALUE (BLOW/FOOT)	AUTOMATIC HAMMER SPT N-VALUE (BLOW/FOOT)
VERY LOOSE	LESS THAN 4	LESS THAN 3
LOOSE	4 - 10	3 - 8
MEDIUM	10 - 30	8 - 24
DENSE	30 - 50	24 - 40
VERY DENSE	GREATER THAN 50	GREATER THAN 40

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REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

RAJ KRISHNASAMY, P.E.
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TIERRA SOUTH FLORIDA
2765 VISTA PARKWAY, S-10
WEST PALM BEACH, FL 33411

DRAWN BY: NG 09-2020
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 7	PALM BEACH	229664-7-52-01

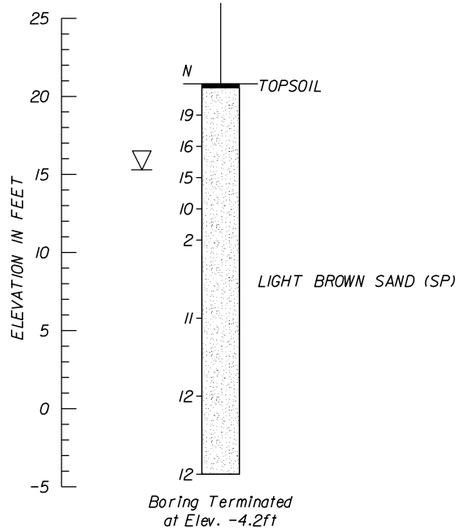
SHEET TITLE: REPORT OF CORE BORINGS FOR SIGNALS

REF. DWG. NO.

PROJECT NAME: SR 7 FROM SR 704 (OKEECHOBEE BLVD.)TO 60TH STREET

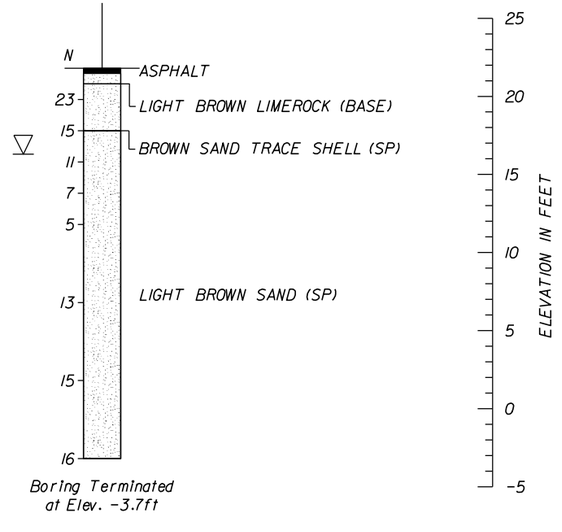
SHEET NO. GT-2

BOR # MA-5
STA. 380+30.00 SR7EXTBL
OFF. 53' LT
ELEV. 20.8
DATE 6/17/2015
HAMMER Auto
RIG D-50
NORTHING 879269.09
EASTING 912476.23
LATITUDE 26.842375
LONGITUDE -80.315798

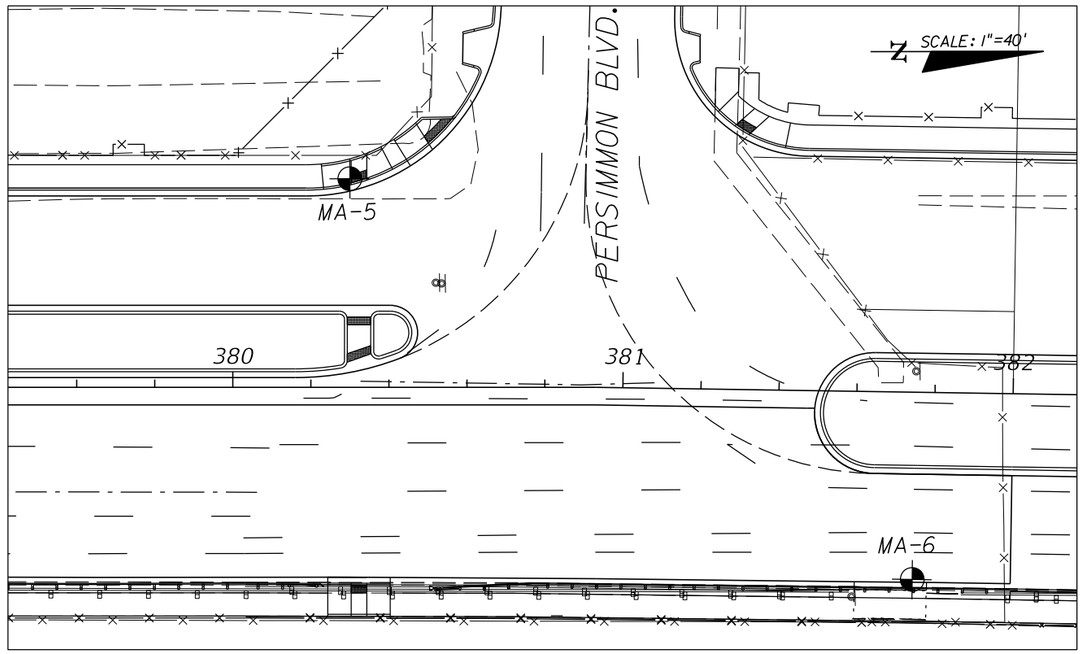


Boring Terminated at Elev. -4.2ft

BOR # MA-6
STA. 381+74.87 SR7EXTBL
OFF. 48.0' RT
ELEV. 21.3
DATE 6/17/2015
HAMMER Auto
RIG D-50
NORTHING 879411.41
EASTING 912581.38
LATITUDE 26.842663
LONGITUDE -80.315360



Boring Terminated at Elev. -3.7ft



Asphalt/Topsoil

Sand

NOTES:

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OC=	ORGANIC CONTENT (%)
LL=	LIQUID LIMIT (%)
PI=	PLASTICITY INDEX (%)
NP=	INDICATES NON-PLASTIC
WOH=	WEIGHT OF HAMMER

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SPT CONSISTENCY CHART

SILTS AND CLAYS

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FIRM	4 - 8	3 - 6
STIFF	8 - 15	6 - 12
VERY STIFF	15 - 30	12 - 24
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SPT DENSITY CHART

GRANULAR MATERIALS

RELATIVE DENSITY	SAFETY HAMMER SPT N-VALUE (BLOW/FOOT)	AUTOMATIC HAMMER SPT N-VALUE (BLOW/FOOT)
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SR 7	PALM BEACH	229664-7-52-01

SHEET TITLE: REPORT OF CORE BORINGS FOR SIGNALS

REF. DWG. NO.

PROJECT NAME: SR 7 FROM SR 704 (OKEECHOBEE BLVD.) TO 60TH STREET

SHEET NO. GT-3