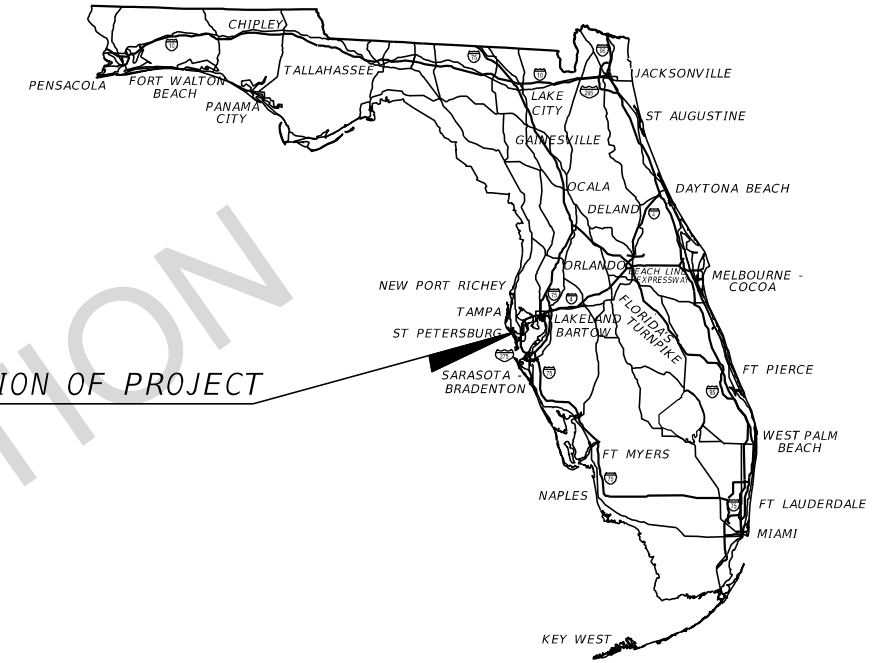




PINELLAS SUNCOAST TRANSIT AUTHORITY

CONTRACT PLANS

FDOT FINANCIAL PROJECT ID 437245-1-21-01  
 CENTRAL AVENUE BUS RAPID TRANSIT  
 PINELLAS COUNTY



LOCATION OF PROJECT

SIGNALIZATION AND STATION OPERATIONS PLANS

INDEX OF SIGNALIZATION AND STATION OPERATIONS PLANS

SHEET NO.	SHEET DESCRIPTION
T-1	KEYSHEET
T-2	SIGNATURE SHEET
T-3 - T-9	TABULATION OF QUANTITIES
T-10	GENERAL NOTES & PAY ITEM NOTES
T-11	GENERAL NOTES (02)
T-12 - T-22	SIGNALIZATION PLAN
T-23 - T-26	BUS LANE SIGN PLAN
T-27 - T-31	GUIDESIGN WORKSHEET
T-32 - T-36	STRAIN POLE TABULATION
T-37	STRAIN POLE DETAILS
T-38 - T-66	STATION OPERATION PLANS
T-67 - T-68	FIBER OPTIC CONNECTION
T-69	STATION OPS SPLICE DETAILS
T-70	ELECTRICAL LAYOUT DETAILS
T-71	LOAD CENTER DETAILS
T-72	ELECTRICAL SERVICE DETAILS
T-73	LIGHTING FIXTURE DETAILS

90% PRELIMINARY PLANS  
 NOVEMBER 15, 2019

PLANS PREPARED BY AND SHOP DRAWINGS TO BE SUBMITTED TO:  
 H.W. LOCHNER, INC.  
 4350 W. CYPRESS STREET, SUITE 800  
 TAMPA, FLORIDA 33607  
 (813) 357-3750  
 CERTIFICATE OF AUTHORIZATION NO: 894

SIGNALIZATION PLANS  
 ENGINEER OF RECORD:  
 ROB R. SWANN, P.E. No. 59517

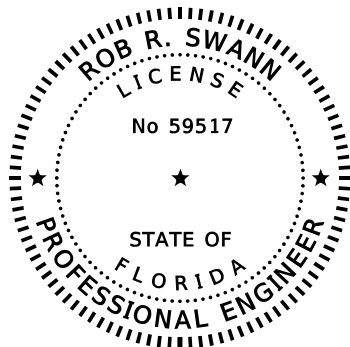
NOTE: THE SCALE OF THESE PLANS MAY HAVE CHANGED DUE TO REPRODUCTION.

PSTA PROJECT MANAGER:  
 ABHISHEK DAYAL, AICP

NOT FOR CONSTRUCTION

SHEET NO.

T-1



THIS ITEM HAS BEEN DIGITALLY  
SIGNED AND SEALED BY

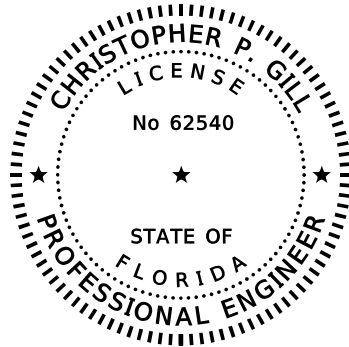
ON THE DATE ADJACENT TO THE SEAL

H.W. LOCHNER, INC.  
4350 W. CYPRESS STREET, SUITE 800  
TAMPA, FLORIDA 33607  
CERTIFICATE OF AUTHORIZATION #894  
ROB R. SWANN, P.E. NO. 59517

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

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 - TRAFFIC SIGNALIZATION
T-2	SIGNATORY SHEET
T-3 - T-9	TABULATION OF QUANTITIES
T-10	GENERAL NOTES & PAY ITEM NOTES
T-11	GENERAL NOTES (02)
T-12 - T-22	SIGNALIZATION PLAN
T-23 - T-26	BUS LANE SIGN PLAN
T-27 - T-31	GUIDESIGN WORKSHEET
T-32 - T-36	STRAIN POLE TABULATION
T-38 - T-66	STATION OPERATION PLANS
T-67 - T-68	FIBER OPTIC CONNECTION
T-69	STATION OP SPLICE DETAILS
T-70	ELECTRICAL LAYOUT DETAILS
T-73	LIGHTING FIXTURE DETAILS



THIS ITEM HAS BEEN DIGITALLY  
SIGNED AND SEALED BY

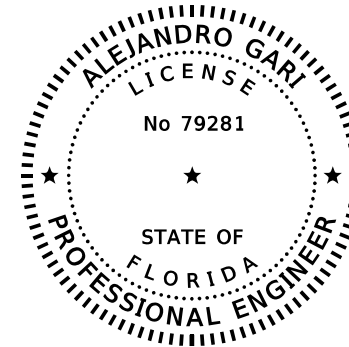
ON THE DATE ADJACENT TO THE SEAL

H.W. LOCHNER, INC.  
4350 W. CYPRESS STREET, SUITE 800  
TAMPA, FLORIDA 33607  
CERTIFICATE OF AUTHORIZATION #894  
DOUGLAS M. HERSHEY, P.E. NO. 63325

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

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-37	STRAIN POLE DETAILS



THIS ITEM HAS BEEN DIGITALLY  
SIGNED AND SEALED BY

ON THE DATE ADJACENT TO THE SEAL

H.W. LOCHNER, INC.  
3750 N.W. 87th AVENUE, SUITE 225  
TAMPA, FLORIDA 33607  
CERTIFICATE OF AUTHORIZATION #894  
ALEJANDRO GARI, P.E. NO. 79281

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

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-71	LOAD CENTER DETAILS
T-72	ELECTRICAL SERVICE DETAILS

NOT FOR CONSTRUCTION

REVISIONS				LOCHNER 4350 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607 CERTIFICATE OF AUTHORIZATION NO. 894 ROB R. SWANN, P.E. NO. 59517	  CENTRAL AVE. BRT	SIGNATURE SHEET	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				T-2


TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS												TOTAL THIS SHEET		GRAND TOTAL			
			T-12		T-13		T-14		T-15		T-16		T-17		T-18		PLAN	FINAL	PLAN	FINAL
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL						
630-2-11	CONDUIT, F&I, OPEN TRENCH, CONDUIT 1"	LF																		
630-2-11	CONDUIT, F&I, OPEN TRENCH, CONDUIT 2"	LF	45						160		35			195		280		715		
630-2-12	CONDUIT, F&I, DIRECTIONAL BORE	LF											325		250		575			
630-2-14	CONDUIT, F&I, ABOVE GROUND	LF									25						25			
632-2-31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA	1						1		1		1		1		5			
632-7-1	SIGNAL CABLE - NEW RECONSTRUCT INTERSECTION, F&I	PI																		
633-1-121	FIBER OPTIC CABLE, F&I, UNDERGROUND, 2-12 FIBERS	LF																		
633-1-122	FIBER OPTIC CABLE, F&I, UNDERGROUND, 13-48 FIBERS	LF																		
633-2-31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA																		
633-2-32	FIBER OPTIC CONNECTION, INSTALL, TERMINATION	EA																		
633-3-11	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE ENCLOSURE	EA																		
633-3-12	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE TRAY	EA																		
633-3-13	FIBER OPTIC CONNECTION HARDWARE, F&I, PRETERMINATED CONNECTOR ASSEMBLY	EA																		
633-3-14	FIBER OPTIC CONNECTION HARDWARE, F&I, BUFFER TUBE FAN OUT KIT	EA																		
633-3-15	FIBER OPTIC CONNECTION HARDWARE, F&I, PRETERMINATED PATCH PANEL	EA																		
633-3-32	FIBER OPTIC CONNECTION HARDWARE, INSTALL, SPLICE TRAY	EA																		
633-3-33	FIBER OPTIC CONNECTION HARDWARE, INSTALL PRETERMINATED CONNECTOR ASSEMBLY	EA																		
633-3-34	FIBER OPTIC CONNECTION HARDWARE, INSTALL BUFFER TUBE FAN OUT KIT	EA																		
634-4-153	SPAN WIRE ASSEMBLY, F&I, TWO POINT, BOX	PI											1		1		2			
634-5-1	FIBERGLASS INSULATOR, F&I	LF																		
635-2-11	PULL & SPLICE BOX F&I, (8" X 8") WATER TIGHT EMBEDDED JUNCTION BOX	EA																		
635-2-11	PULL & SPLICE BOX F&I, (13" X 24") JUNCTION BOX	EA							2		2		10		10		24			
635-2-12	PULL & SPLICE BOX F&I, (24" X 36") JUNCTION BOX	EA																		
639-1-112	ELECTRICAL POWER SERVICE, F&I, OVERHEAD METER PURCHASED FROM POWER CO.	AS											1		1		2			
639-1-121	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER FURNISHED BY POWER CO.	AS																		
639-2-1	ELECTRICAL SERVICE WIRE, F&I	LF											50		170		220			
639-3-11	ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT	EA													1		1			
641-2-12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE	EA											1		2		3			
641-2-17	PRESTRESSED CONCRETE POLE, F&I, TYPE P-V11	EA																		
641-2-18	PRESTRESSED CONCRETE POLE, F&I, TYPE P-VIII	EA											4		4		8			
641-2-80	PRESTRESSED CONCRETE POLE, COMPLETE POLE REMOVAL - POLE 30' AND GREATER	EA											4		4		8			
646-1-11	ALUMINUM SIGNALS POLE, PEDESTAL	EA	2						4		3		1		5		15			
646-1-60	ALUMINUM SIGNALS POLE, REMOVE	EA	2						1								3			
650-1-14	VEHICULAR TRAFFIC SIGNAL, F&I ALUMINUM, 3 SECTION, 1 WAY	AS											6		7		13			
650-1-19	VEHICULAR TRAFFIC SIGNAL, F&I ALUMINUM, 5 SECTION CLUSTER, 1 WAY	AS											1				1			
650-1-60	VEHICULAR TRAFFIC SIGNAL, REMOVE - POLES TO REMAIN	AS											6				6			
653-1-11	PEDESTRIAN SIGNAL, F&I, LED COUNTDOWN, 1 WAY	AS	2						4		4		10		4		24			
653-1-12	PEDESTRIAN SIGNAL, F&I, LED COUNTDOWN, 2 WAYS	AS																		
653-1-60	PEDESTRIAN SIGNAL, REMOVE PED SIGNAL - POLE/PEDESTAL TO REMAIN	AS	1						2		2		2				7			
654-2-21	RECTANGULAR RAPID FLASHING BEACON, F&I - SOLAR, COMPLETE ASSEMBLY - SINGLE DIRECTION	AS			4		3										7			
654-2-22	RECTANGULAR RAPID FLASHING BEACON, F&I - SOLAR, COMPLETE ASSEMBLY - BACK TO BACK	AS			1												1			
659-1-102	MOUNTING ASSEMBLY, F&I, SPAN WIRE ASSEMBLY	EA																		
660-2-101	LOOP ASSEMBLY, F&I, TYPE A	AS																		
660-2-106	LOOP ASSEMBLY, F&I, TYPE F	AS											2				2			
663-1-311	SIGNAL PRIORITY & PREEMPTION SYSTEM, INSTALL, OPTICAL, CABINET ELECTRONICS	EA	2						4		3		1		5		15			
665-1-11	PEDESTRIAN DETECTOR, F&I, STANDARD	EA																		
665-1-12	PEDESTRIAN DETECTOR, F&I, ACCESSIBLE	EA																		
670-5-111	TRAFFIC CONTROL ASSEMBLY, F&I, NEMA, 1 PREEMPTION	AS																		
670-5-112	TRAFFIC CONTROL ASSEMBLY, F&I, NEMA, 2 PREEMPTION	AS																		
670-5-400	TRAFFIC CONTROL ASSEMBLY, MODIFY	AS																		
671-2-11	TRAFFIC CONTROL WITHOUT CABINET, F&I IN EXIST. CABINET, NEMA	EA																		
676-2-122	ITS CABINET, F&I, POLE MOUNT WITH SUNSHIELD, 336S, 24"W X 46"H X 22" D	EA																		
684-1-1	MANAGED FIELD ETHERNET SWITCH, F&I	EA																		
685-1-11	UNINTERRUPTIBLE POWER SUPPLY, F&I, LINE INTERACTIVE	EA											1		1		2			
690-502	CONTROLLER ASSEMBLY, REMOVE, CONTROLLER UNIT	EA																		
700-1-11	SIGN ASSEMBLY, F&I, UP TO 12 SF	AS					2										2			
700-1-50	SIGN PANEL, RELOCATE	AS													1		1			
700-3-101	SIGN PANEL, F&I GROUND MOUNT, UP TO 12 SF	EA									1		1		2		2			
700-3-201	SIGN PANEL, F&I OVERHEAD MOUNT, UP TO 12 SF	EA																		
700-3-205	SIGN PANEL, F&I OVERHEAD MOUNT, 51 - 100 SF	EA													3		3			
700-5-21	INTERNALLY ILLUMINATED SIGN, F&I OVERHEAD MOUNT, UP TO 12 SF	EA																		
700-13-15	REFLECTIVE SIGN STRIP, F&I, 5'	EA			6		5													
715-4-60	LIGHT POLE COMPLETE, RELOCATE	EA															1			
715-11-111	LUMINAIRE, F&I, ROADDWAY, COBRA HEAD	EA																		

REVISIONS				LOCHNER 4550 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607 CERTIFICATE OF AUTHORIZATION NO. 894 ROB R. SWANN, P.E. NO. 59517	  <b>CENTRAL AVE. BRT</b>	TABULATION OF QUANTITIES 01	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				T-3


TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS												TOTAL THIS SHEET		GRAND TOTAL			
			T-19		T-20		T-21		T-22		T-23		T-24		T-25		PLAN	FINAL	PLAN	FINAL
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL						
630-2-11	CONDUIT, F&I, OPEN TRENCH, CONDUIT 1"	LF																		
630-2-11	CONDUIT, F&I, OPEN TRENCH, CONDUIT 2"	LF	215		200		180		130								725			
630-2-12	CONDUIT, F&I, DIRECTIONAL BORE	LF	220		260		245		25								750			
630-2-14	CONDUIT, F&I, ABOVE GROUND	LF																		
632-2-31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA																		
632-7-1	SIGNAL CABLE - NEW RECONSTRUCT INTERSECTION, F&I	PI	1		1		1		1								4			
633-1-121	FIBER OPTIC CABLE, F&I, UNDERGROUND, 2-12 FIBERS	LF																		
633-1-122	FIBER OPTIC CABLE, F&I, UNDERGROUND, 48 FIBERS	LF																		
633-2-31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA																		
633-2-32	FIBER OPTIC CONNECTION, INSTALL, TERMINATION	EA																		
633-3-11	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE ENCLOSURE	EA																		
633-3-12	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE TRAY	EA																		
633-3-13	FIBER OPTIC CONNECTION HARDWARE, F&I, PRETERMINATED CONNECTOR ASSEMBLY	EA																		
633-3-14	FIBER OPTIC CONNECTION HARDWARE, F&I, BUFFER TUBE FAN OUT KIT	EA																		
633-3-15	FIBER OPTIC CONNECTION HARDWARE, F&I, PRETERMINATED PATCH PANEL	EA																		
633-3-32	FIBER OPTIC CONNECTION HARDWARE, INSTALL, SPLICE TRAY	EA																		
633-3-33	FIBER OPTIC CONNECTION HARDWARE, INSTALL PRETERMINATED CONNECTOR ASSEMBLY	EA																		
633-3-34	FIBER OPTIC CONNECTION HARDWARE, INSTALL BUFFER TUBE FAN OUT KIT	EA																		
634-4-153	SPAN WIRE ASSEMBLY, F&I, TWO POINT, BOX	PI	1		1		1					1			1		5			
634-5-1	FIBERGLASS INSULATOR, F&I	LF																		
635-2-11	PULL & SPLICE BOX F&I, (8" X 8") WATER TIGHT EMBEDDED JUNCTION BOX	EA																		
635-2-11	PULL & SPLICE BOX F&I, (13" X 24") JUNCTION BOX	EA	10		9		9		5								33			
635-2-12	PULL & SPLICE BOX F&I, (24" X 36") JUNCTION BOX	EA							2								2			
639-1-112	ELECTRICAL POWER SERVICE, F&I, OVERHEAD METER PURCHASED FROM POWER CO.	AS	1		1		1		1								4			
639-1-121	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER FURNISHED BY POWER CO.	AS																		
639-2-1	ELECTRICAL SERVICE WIRE, F&I	LF	205		10		50		130								395			
639-3-11	ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT	EA	1						1								2			
641-2-12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE	EA	2		1		1		2								6			
641-2-17	PRESTRESSED CONCRETE POLE, F&I, TYPE P-V11	EA										2			2		4			
641-2-18	PRESTRESSED CONCRETE POLE, F&I, TYPE P-VIII	EA	4		4		4										12			
641-2-80	PRESTRESSED CONCRETE POLE, COMPLETE POLE REMOVAL - POLE 30' AND GREATER	EA	4		4		4										12			
646-1-11	ALUMINUM SIGNALS POLE, PEDESTAL	EA	2		1		1										4			
646-1-60	ALUMINUM SIGNALS POLE, REMOVE	EA																		
650-1-14	VEHICULAR TRAFFIC SIGNAL, F&I ALUMINUM, 3 SECTION, 1 WAY	AS	7		7		7										21			
650-1-19	VEHICULAR TRAFFIC SIGNAL, F&I ALUMINUM, 5 SECTION CLUSTER, 1 WAY	AS																		
650-1-60	VEHICULAR TRAFFIC SIGNAL, REMOVE - POLES TO REMAIN	AS																		
653-1-11	PEDESTRIAN SIGNAL, F&I, LED COUNTDOWN, 1 WAY	AS	6		10		10										26			
653-1-12	PEDESTRIAN SIGNAL, F&I, LED COUNTDOWN, 2 WAYS	AS																		
653-1-60	PEDESTRIAN SIGNAL, REMOVE PED SIGNAL - POLE/PEDESTAL TO REMAIN	AS			2												2			
654-2-21	RECTANGULAR RAPID FLASHING BEACON, F&I - SOLAR, COMPLETE ASSEMBLY - SINGLE DIRECTION	AS							3								3			
654-2-22	RECTANGULAR RAPID FLASHING BEACON, F&I - SOLAR, COMPLETE ASSEMBLY - BACK TO BACK	AS																		
659-1-102	MOUNTING ASSEMBLY, F&I, SPAN WIRE ASSEMBLY	EA																		
660-2-101	LOOP ASSEMBLY, F&I, TYPE A	AS																		
660-2-106	LOOP ASSEMBLY, F&I, TYPE F	AS																		
663-1-311	SIGNAL PRIORITY & PREEMPTION SYSTEM, INSTALL, OPTICAL, CABINET ELECTRONICS	EA																		
665-1-11	PEDESTRIAN DETECTOR, F&I, STANDARD	EA	2		1		1										4			
665-1-12	PEDESTRIAN DETECTOR, F&I, ACCESSIBLE	EA																		
670-5-111	TRAFFIC CONTROL ASSEMBLY, F&I, NEMA, 1 PREEMPTION	AS	1														1			
670-5-112	TRAFFIC CONTROL ASSEMBLY, F&I, NEMA, 2 PREEMPTION	AS																		
670-5-400	TRAFFIC CONTROL ASSEMBLY, MODIFY	AS									1						1			
671-2-11	TRAFFIC CONTROL WITHOUT CABINET, F&I IN EXIST. CABINET, NEMA	EA																		
676-2-122	ITS CABINET, F&I, POLE MOUNT WITH SUNSHIELD, 336S, 24"W X 46"H X 22" D	EA							1								1			
684-1-1	MANAGED FIELD ETHERNET SWITCH, F&I	EA																		
685-1-11	UNINTERRUPTIBLE POWER SUPPLY, F&I, LINE INTERACTIVE	EA	1		1		1		1								4			
690-502	CONTROLLER ASSEMBLY, REMOVE, CONTROLLER UNIT	EA																		
700-1-11	SIGN ASSEMBLY, F&I, UP TO 12 SF	AS																		
700-1-50	SIGN PANEL, RELOCATE	AS																		
700-3-101	SIGN PANEL, F&I GROUND MOUNT, UP TO 12 SF	EA	1		1		1										3			
700-3-201	SIGN PANEL, F&I OVERHEAD MOUNT, UP TO 12 SF	EA	2		2		2										6			
700-3-205	SIGN PANEL, F&I OVERHEAD MOUNT, 51 - 100 SF	EA										1			1		2			
700-5-21	INTERNALLY ILLUMINATED SIGN, F&I OVERHEAD MOUNT, UP TO 12 SF	EA	3		3		3										9			
700-13-15	REFLECTIVE SIGN STRIP, F&I, 5'	EA							3								3			
715-4-60	LIGHT POLE COMPLETE, RELOCATE	EA	1		1		2										4			
715-11-111	LUMINAIRE, F&I, ROADDWAY, COBRA HEAD	EA							1								1			

REVISIONS				LOCHNER 4550 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607 CERTIFICATE OF AUTHORIZATION NO. 894 ROB R. SWANN, P.E. NO. 59517	 <b>CENTRAL AVE. BRT</b>	TABULATION OF QUANTITIES 02	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				T-4

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS												TOTAL THIS SHEET		GRAND TOTAL			
			T-26		T-38		T-39		T-40		T-41		T-42		T-43		PLAN	FINAL	PLAN	FINAL
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL						
630-2-11	CONDUIT, F&I, OPEN TRENCH, CONDUIT 1"	LF																		
630-2-11	CONDUIT, F&I, OPEN TRENCH, CONDUIT 2"	LF			65		50		70		40		170		150		545			
630-2-12	CONDUIT, F&I, DIRECTIONAL BORE	LF			140		300		365		180				170		1155			
630-2-14	CONDUIT, F&I, ABOVE GROUND	LF																		
632-2-31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA																		
632-7-1	SIGNAL CABLE - NEW RECONSTRUCT INTERSECTION, F&I	PI			1		1		1		1		1		1		6			
633-1-121	FIBER OPTIC CABLE, F&I, UNDERGROUND, 2-12 FIBERS	LF			135		305		335		255		110		330		1470			
633-1-122	FIBER OPTIC CABLE, F&I, UNDERGROUND, 48 FIBERS	LF																		
633-2-31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA			8		12		4		8		8		12		52			
633-2-32	FIBER OPTIC CONNECTION, INSTALL, TERMINATION	EA			16		24		8		16		16		24		104			
633-3-11	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE ENCLOSURE	EA			1		2				1		1		2		7			
633-3-12	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE TRAY	EA			1		2				1		1		2		7			
633-3-13	FIBER OPTIC CONNECTION HARDWARE, F&I, PRETERMINATED CONNECTOR ASSEMBLY	EA																		
633-3-14	FIBER OPTIC CONNECTION HARDWARE, F&I, BUFFER TUBE FAN OUT KIT	EA			1		2				1		1		2		7			
633-3-15	FIBER OPTIC CONNECTION HARDWARE, F&I, PRETERMINATED PATCH PANEL	EA																		
633-3-32	FIBER OPTIC CONNECTION HARDWARE, INSTALL, SPLICE TRAY	EA																		
633-3-33	FIBER OPTIC CONNECTION HARDWARE, INSTALL PRETERMINATED CONNECTOR ASSEMBLY	EA																		
633-3-34	FIBER OPTIC CONNECTION HARDWARE, INSTALL BUFFER TUBE FAN OUT KIT	EA																		
634-4-153	SPAN WIRE ASSEMBLY, F&I, TWO POINT, BOX	PI	1														1			
634-5-1	FIBERGLASS INSULATOR, F&I	LF																		
635-2-11	PULL & SPLICE BOX F&I, (8" X 8") WATER TIGHT EMBEDDED JUNCTION BOX	EA																		
635-2-11	PULL & SPLICE BOX F&I, (13" X 24") JUNCTION BOX	EA			1		4		3				4		7		19			
635-2-12	PULL & SPLICE BOX F&I, (24" X 36") JUNCTION BOX	EA			1		3		2		4		2		2		14			
639-1-112	ELECTRICAL POWER SERVICE, F&I, OVERHEAD METER PURCHASED FROM POWER CO.	AS			1		1		1		1		1		1		6			
639-1-121	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER FURNISHED BY POWER CO.	AS																		
639-2-1	ELECTRICAL SERVICE WIRE, F&I	LF			60		110		100		20		100		240		630			
639-3-11	ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT	EA							1				1		1		3			
641-2-12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE	EA			1		2		2		1		2		2		10			
641-2-17	PRESTRESSED CONCRETE POLE, F&I, TYPE P-V11	EA	2														2			
641-2-18	PRESTRESSED CONCRETE POLE, F&I, TYPE P-VIII	EA																		
641-2-80	PRESTRESSED CONCRETE POLE, COMPLETE POLE REMOVAL - POLE 30' AND GREATER	EA																		
646-1-11	ALUMINUM SIGNALS POLE, PEDESTAL	EA																		
646-1-60	ALUMINUM SIGNALS POLE, REMOVE	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																		
650-1-60	VEHICULAR TRAFFIC SIGNAL, REMOVE - POLES TO REMAIN	AS																		
653-1-11	PEDESTRIAN SIGNAL, F&I, LED COUNTDOWN, 1 WAY	AS																		
653-1-12	PEDESTRIAN SIGNAL, F&I, LED COUNTDOWN, 2 WAYS	AS																		
653-1-60	PEDESTRIAN SIGNAL, REMOVE PED SIGNAL - POLE/PEDESTAL TO REMAIN	AS																		
654-2-21	RECTANGULAR RAPID FLASHING BEACON, F&I - SOLAR, COMPLETE ASSEMBLY - SINGLE DIRECTION	AS																		
654-2-22	RECTANGULAR RAPID FLASHING BEACON, F&I - SOLAR, COMPLETE ASSEMBLY - BACK TO BACK	AS																		
659-1-102	MOUNTING ASSEMBLY, F&I, SPAN WIRE ASSEMBLY	EA																		
660-2-101	LOOP ASSEMBLY, F&I, TYPE A	AS																		
660-2-106	LOOP ASSEMBLY, F&I, TYPE F	AS																		
663-1-311	SIGNAL PRIORITY & PREEMPTION SYSTEM, INSTALL, OPTICAL, CABINET ELECTRONICS	EA																		
665-1-11	PEDESTRIAN DETECTOR, F&I, STANDARD	EA																		
665-1-12	PEDESTRIAN DETECTOR, F&I, ACCESSIBLE	EA																		
670-5-111	TRAFFIC CONTROL ASSEMBLY, F&I, NEMA, 1 PREEMPTION	AS																		
670-5-112	TRAFFIC CONTROL ASSEMBLY, F&I, NEMA, 2 PREEMPTION	AS																		
670-5-400	TRAFFIC CONTROL ASSEMBLY, MODIFY	AS																		
671-2-11	TRAFFIC CONTROL WITHOUT CABINET, F&I IN EXIST. CABINET, NEMA	EA																		
676-2-122	ITS CABINET, F&I, POLE MOUNT WITH SUNSHIELD, 336S, 24"W X 46"H X 22" D	EA			1		1		1		1		1		1		6			
684-1-1	MANAGED FIELD ETHERNET SWITCH, F&I	EA																		
685-1-11	UNINTERRUPTIBLE POWER SUPPLY, F&I, LINE INTERACTIVE	EA			1		1		1		1		1		1		6			
690-502	CONTROLLER ASSEMBLY, REMOVE, CONTROLLER UNIT	EA																		
700-1-11	SIGN ASSEMBLY, F&I, UP TO 12 SF	AS																		
700-1-50	SIGN PANEL, RELOCATE	AS																		
700-3-101	SIGN PANEL, F&I GROUND MOUNT, UP TO 12 SF	EA																		
700-3-201	SIGN PANEL, F&I OVERHEAD MOUNT, UP TO 12 SF	EA																		
700-3-205	SIGN PANEL, F&I OVERHEAD MOUNT, 51 - 100 SF	EA	1														1			
700-5-21	INTERNALLY ILLUMINATED SIGN, F&I OVERHEAD MOUNT, UP TO 12 SF	EA																		
700-13-15	REFLECTIVE SIGN STRIP, F&I, 5'	EA																		
715-4-60	LIGHT POLE COMPLETE. RELOCATE	EA																		
715-11-111	LUMINAIRE, F&I, ROADDWAY, COBRA HEAD	EA																		

REVISIONS				LOCHNER 4550 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607 CERTIFICATE OF AUTHORIZATION NO. 894 ROB R. SWANN, P.E. NO. 59517	  CENTRAL AVE. BRT	TABULATION OF QUANTITIES 03	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				T-5

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS												TOTAL THIS SHEET		GRAND TOTAL			
			T-44		T-45		T-46		T-47		T-48		T-49		T-50		PLAN	FINAL	PLAN	FINAL
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL						
630-2-11	CONDUIT, F&I, OPEN TRENCH, CONDUIT 1"	LF																		
630-2-11	CONDUIT, F&I, OPEN TRENCH, CONDUIT 2"	LF	35		210		85		70		80		100		100		680			
630-2-12	CONDUIT, F&I, DIRECTIONAL BORE	LF	115		100		180		80		25		30		50.00		580			
630-2-14	CONDUIT, F&I, ABOVE GROUND	LF																		
632-2-31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA																		
632-7-1	SIGNAL CABLE - NEW RECONSTRUCT INTERSECTION, F&I	PI	1		1		1		1		1		1		1.00		7			
633-1-121	FIBER OPTIC CABLE, F&I, UNDERGROUND, 2-12 FIBERS	LF	140		220												360			
633-1-122	FIBER OPTIC CABLE, F&I, UNDERGROUND, 48 FIBERS	LF																		
633-2-31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA	4		16												20			
633-2-32	FIBER OPTIC CONNECTION, INSTALL, TERMINATION	EA	8		32												40			
633-3-11	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE ENCLOSURE	EA			2												2			
633-3-12	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE TRAY	EA			2												2			
633-3-13	FIBER OPTIC CONNECTION HARDWARE, F&I, PRETERMINATED CONNECTOR ASSEMBLY	EA																		
633-3-14	FIBER OPTIC CONNECTION HARDWARE, F&I, BUFFER TUBE FAN OUT KIT	EA			2												2			
633-3-15	FIBER OPTIC CONNECTION HARDWARE, F&I, PRETERMINATED PATCH PANEL	EA																		
633-3-32	FIBER OPTIC CONNECTION HARDWARE, INSTALL, SPLICE TRAY	EA																		
633-3-33	FIBER OPTIC CONNECTION HARDWARE, INSTALL PRETERMINATED CONNECTOR ASSEMBLY	EA																		
633-3-34	FIBER OPTIC CONNECTION HARDWARE, INSTALL BUFFER TUBE FAN OUT KIT	EA																		
634-4-153	SPAN WIRE ASSEMBLY, F&I, TWO POINT, BOX	PI																		
634-5-1	FIBERGLASS INSULATOR, F&I	LF																		
635-2-11	PULL & SPLICE BOX F&I, (8" X 8") WATER TIGHT EMBEDDED JUNCTION BOX	EA																		
635-2-11	PULL & SPLICE BOX F&I, (13" X 24") JUNCTION BOX	EA	3		7		6		5		5		6		6		38			
635-2-12	PULL & SPLICE BOX F&I, (24" X 36") JUNCTION BOX	EA	2		4		2		2		2		2		2		16			
639-1-112	ELECTRICAL POWER SERVICE, F&I, OVERHEAD METER PURCHASED FROM POWER CO.	AS	1		2		1		1		1		1		1		8			
639-1-121	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER FURNISHED BY POWER CO.	AS																		
639-2-1	ELECTRICAL SERVICE WIRE, F&I	LF	160		60		75		130		80		100		100		705			
639-3-11	ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT	EA	1		1		1		1		1		1		1		6			
641-2-12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE	EA	1		2		2		2		2		2		1		12			
641-2-17	PRESTRESSED CONCRETE POLE, F&I, TYPE P-V11	EA																		
641-2-18	PRESTRESSED CONCRETE POLE, F&I, TYPE P-VIII	EA																		
641-2-80	PRESTRESSED CONCRETE POLE, COMPLETE POLE REMOVAL - POLE 30' AND GREATER	EA																		
646-1-11	ALUMINUM SIGNALS POLE, PEDESTAL	EA					1				1		1		1		4			
646-1-60	ALUMINUM SIGNALS POLE, REMOVE	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																		
650-1-60	VEHICULAR TRAFFIC SIGNAL, REMOVE - POLES TO REMAIN	AS																		
653-1-11	PEDESTRIAN SIGNAL, F&I, LED COUNTDOWN, 1 WAY	AS																		
653-1-12	PEDESTRIAN SIGNAL, F&I, LED COUNTDOWN, 2 WAYS	AS																		
653-1-60	PEDESTRIAN SIGNAL, REMOVE PED SIGNAL - POLE/PEDESTAL TO REMAIN	AS																		
654-2-21	RECTANGULAR RAPID FLASHING BEACON, F&I - SOLAR, COMPLETE ASSEMBLY - SINGLE DIRECTION	AS																		
654-2-22	RECTANGULAR RAPID FLASHING BEACON, F&I - SOLAR, COMPLETE ASSEMBLY - BACK TO BACK	AS																		
659-1-102	MOUNTING ASSEMBLY, F&I, SPAN WIRE ASSEMBLY	EA																		
660-2-101	LOOP ASSEMBLY, F&I, TYPE A	AS																		
660-2-106	LOOP ASSEMBLY, F&I, TYPE F	AS																		
663-1-311	SIGNAL PRIORITY & PREEMPTION SYSTEM, INSTALL, OPTICAL, CABINET ELECTRONICS	EA																		
665-1-11	PEDESTRIAN DETECTOR, F&I, STANDARD	EA							1		1		1		1		4			
665-1-12	PEDESTRIAN DETECTOR, F&I, ACCESSIBLE	EA																		
670-5-111	TRAFFIC CONTROL ASSEMBLY, F&I, NEMA, 1 PREEMPTION	AS																		
670-5-112	TRAFFIC CONTROL ASSEMBLY, F&I, NEMA, 2 PREEMPTION	AS																		
670-5-400	TRAFFIC CONTROL ASSEMBLY, MODIFY	AS																		
671-2-11	TRAFFIC CONTROL WITHOUT CABINET, F&I IN EXIST. CABINET, NEMA	EA																		
676-2-122	ITS CABINET, F&I, POLE MOUNT WITH SUNSHIELD, 336S, 24"W X 46"H X 22" D	EA	1		2		1		1		1		1		1		8			
684-1-1	MANAGED FIELD ETHERNET SWITCH, F&I	EA																		
685-1-11	UNINTERRUPTIBLE POWER SUPPLY, F&I, LINE INTERACTIVE	EA	1		2		1		1		1		1		1		8			
690-502	CONTROLLER ASSEMBLY, REMOVE, CONTROLLER UNIT	EA																		
700-1-11	SIGN ASSEMBLY, F&I, UP TO 12 SF	AS																		
700-1-50	SIGN PANEL, RELOCATE	AS																		
700-3-101	SIGN PANEL, F&I GROUND MOUNT, UP TO 12 SF	EA																		
700-3-201	SIGN PANEL, F&I OVERHEAD MOUNT, UP TO 12 SF	EA																		
700-3-205	SIGN PANEL, F&I OVERHEAD MOUNT, 51 - 100 SF	EA																		
700-5-21	INTERNALLY ILLUMINATED SIGN, F&I OVERHEAD MOUNT, UP TO 12 SF	EA																		
700-13-15	REFLECTIVE SIGN STRIP, F&I, 5'	EA																		
715-4-60	LIGHT POLE COMPLETE. RELOCATE	EA																		
715-11-111	LUMINAIRE, F&I, ROADDWAY, COBRA HEAD	EA					1				1		1		1		4			

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LOCHNER  
 4550 W. CYPRESS STREET, SUITE 800  
 TAMPA, FLORIDA 33607  
 CERTIFICATE OF AUTHORIZATION NO. 894  
 ROB R. SWANN, P.E. NO. 59517



TABULATION OF QUANTITIES 04

SHEET NO.  
 T-6

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS												TOTAL THIS SHEET		GRAND TOTAL			
			T-51		T-52		T-53		T-54		T-55		T-56		T-57		PLAN	FINAL	PLAN	FINAL
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL						
630-2-11	CONDUIT, F&I, OPEN TRENCH, CONDUIT 1"	LF																		
630-2-11	CONDUIT, F&I, OPEN TRENCH, CONDUIT 2"	LF	90		70		80		60		200		30		60		590			
630-2-12	CONDUIT, F&I, DIRECTIONAL BORE	LF	20		20		20		40		45		195		40		380			
630-2-14	CONDUIT, F&I, ABOVE GROUND	LF																		
632-2-31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA																		
632-7-1	SIGNAL CABLE - NEW RECONSTRUCT INTERSECTION, F&I	PI	1		1		1		1		1		1		1		7			
633-1-121	FIBER OPTIC CABLE, F&I, UNDERGROUND, 2-12 FIBERS	LF																		
633-1-122	FIBER OPTIC CABLE, F&I, UNDERGROUND, 48 FIBERS	LF																		
633-2-31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA																		
633-2-32	FIBER OPTIC CONNECTION, INSTALL, TERMINATION	EA																		
633-3-11	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE ENCLOSURE	EA																		
633-3-12	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE TRAY	EA																		
633-3-13	FIBER OPTIC CONNECTION HARDWARE, F&I, PRETERMINATED CONNECTOR ASSEMBLY	EA																		
633-3-14	FIBER OPTIC CONNECTION HARDWARE, F&I, BUFFER TUBE FAN OUT KIT	EA																		
633-3-15	FIBER OPTIC CONNECTION HARDWARE, F&I, PRETERMINATED PATCH PANEL	EA																		
633-3-32	FIBER OPTIC CONNECTION HARDWARE, INSTALL, SPLICE TRAY	EA																		
633-3-33	FIBER OPTIC CONNECTION HARDWARE, INSTALL PRETERMINATED CONNECTOR ASSEMBLY	EA																		
633-3-34	FIBER OPTIC CONNECTION HARDWARE, INSTALL BUFFER TUBE FAN OUT KIT	EA																		
634-4-153	SPAN WIRE ASSEMBLY, F&I, TWO POINT, BOX	PI																		
634-5-1	FIBERGLASS INSULATOR, F&I	LF																		
635-2-11	PULL & SPLICE BOX F&I, (8" X 8") WATER TIGHT EMBEDDED JUNCTION BOX	EA																		
635-2-11	PULL & SPLICE BOX F&I, (13" X 24") JUNCTION BOX	EA	6		6		7		6		6		7		5		43			
635-2-12	PULL & SPLICE BOX F&I, (24" X 36") JUNCTION BOX	EA	2		2		2		2		2		2		2		14			
639-1-112	ELECTRICAL POWER SERVICE, F&I, OVERHEAD METER PURCHASED FROM POWER CO.	AS	1		1		1		1		1		1		1		7			
639-1-121	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER FURNISHED BY POWER CO.	AS																		
639-2-1	ELECTRICAL SERVICE WIRE, F&I	LF	90		40		160		125		80		200		60		755			
639-3-11	ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT	EA	1		1		1		1		1		1		1		7			
641-2-12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE	EA	2		2		2		2		2		1		1		12			
641-2-17	PRESTRESSED CONCRETE POLE, F&I, TYPE P-V11	EA																		
641-2-18	PRESTRESSED CONCRETE POLE, F&I, TYPE P-VIII	EA																		
641-2-80	PRESTRESSED CONCRETE POLE, COMPLETE POLE REMOVAL - POLE 30' AND GREATER	EA																		
646-1-11	ALUMINUM SIGNALS POLE, PEDESTAL	EA																		
646-1-60	ALUMINUM SIGNALS POLE, REMOVE	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																		
650-1-60	VEHICULAR TRAFFIC SIGNAL, REMOVE - POLES TO REMAIN	AS																		
653-1-11	PEDESTRIAN SIGNAL, F&I, LED COUNTDOWN, 1 WAY	AS																		
653-1-12	PEDESTRIAN SIGNAL, F&I, LED COUNTDOWN, 2 WAYS	AS																		
653-1-60	PEDESTRIAN SIGNAL, REMOVE PED SIGNAL - POLE/PEDESTAL TO REMAIN	AS																		
654-2-21	RECTANGULAR RAPID FLASHING BEACON, F&I - SOLAR, COMPLETE ASSEMBLY - SINGLE DIRECTION	AS							1								1			
654-2-22	RECTANGULAR RAPID FLASHING BEACON, F&I - SOLAR, COMPLETE ASSEMBLY - BACK TO BACK	AS																		
659-1-102	MOUNTING ASSEMBLY, F&I, SPAN WIRE ASSEMBLY	EA																		
660-2-101	LOOP ASSEMBLY, F&I, TYPE A	AS																		
660-2-106	LOOP ASSEMBLY, F&I, TYPE F	AS																		
663-1-311	SIGNAL PRIORITY & PREEMPTION SYSTEM, INSTALL, OPTICAL, CABINET ELECTRONICS	EA																		
665-1-11	PEDESTRIAN DETECTOR, F&I, STANDARD	EA	1								1						2			
665-1-12	PEDESTRIAN DETECTOR, F&I, ACCESSIBLE	EA																		
670-5-111	TRAFFIC CONTROL ASSEMBLY, F&I, NEMA, 1 PREEMPTION	AS																		
670-5-112	TRAFFIC CONTROL ASSEMBLY, F&I, NEMA, 2 PREEMPTION	AS																		
670-5-400	TRAFFIC CONTROL ASSEMBLY, MODIFY	AS																		
671-2-11	TRAFFIC CONTROL WITHOUT CABINET, F&I IN EXIST. CABINET, NEMA	EA																		
676-2-122	ITS CABINET, F&I, POLE MOUNT WITH SUNSHIELD, 336S, 24"W X 46"H X 22" D	EA	1		1		1		1		1		1		1		7			
684-1-1	MANAGED FIELD ETHERNET SWITCH, F&I	EA																		
685-1-11	UNINTERRUPTIBLE POWER SUPPLY, F&I, LINE INTERACTIVE	EA	1		1		1		1		1		1		1		7			
690-502	CONTROLLER ASSEMBLY, REMOVE, CONTROLLER UNIT	EA																		
700-1-11	SIGN ASSEMBLY, F&I, UP TO 12 SF	AS																		
700-1-50	SIGN PANEL, RELOCATE	AS																		
700-3-101	SIGN PANEL, F&I GROUND MOUNT, UP TO 12 SF	EA																		
700-3-201	SIGN PANEL, F&I OVERHEAD MOUNT, UP TO 12 SF	EA																		
700-3-205	SIGN PANEL, F&I OVERHEAD MOUNT, 51 - 100 SF	EA																		
700-5-21	INTERNALLY ILLUMINATED SIGN, F&I OVERHEAD MOUNT, UP TO 12 SF	EA																		
700-13-15	REFLECTIVE SIGN STRIP, F&I, 5'	EA							1								1			
715-4-60	LIGHT POLE COMPLETE. RELOCATE	EA																		
715-11-111	LUMINAIRE, F&I, ROADDWAY, COBRA HEAD	EA	1		1		1		1		1		1		1		7			

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LOCHNER  
 4550 W. CYPRESS STREET, SUITE 800  
 TAMPA, FLORIDA 33607  
 CERTIFICATE OF AUTHORIZATION NO. 894  
 ROB R. SWANN, P.E. NO. 59517



TABULATION OF QUANTITIES 05

SHEET NO.  
T-7

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS												TOTAL THIS SHEET		GRAND TOTAL			
			T-58		T-59		T-60		T-61		T-62		T-63		T-64		PLAN	FINAL	PLAN	FINAL
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL						
630-2-11	CONDUIT, F&I, OPEN TRENCH, CONDUIT 1"	LF																		
630-2-11	CONDUIT, F&I, OPEN TRENCH, CONDUIT 2"	LF	120		50		80		60		80		40		55		485			
630-2-12	CONDUIT, F&I, DIRECTIONAL BORE	LF	90		135		80		120		105		105		60		695			
630-2-14	CONDUIT, F&I, ABOVE GROUND	LF																		
632-2-31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA																		
632-7-1	SIGNAL CABLE - NEW RECONSTRUCT INTERSECTION, F&I	PI	1		1		1		1		1		1		1		7			
633-1-121	FIBER OPTIC CABLE, F&I, UNDERGROUND, 2-12 FIBERS	LF																		
633-1-122	FIBER OPTIC CABLE, F&I, UNDERGROUND, 48 FIBERS	LF																		
633-2-31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA																		
633-2-32	FIBER OPTIC CONNECTION, INSTALL, TERMINATION	EA																		
633-3-11	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE ENCLOSURE	EA																		
633-3-12	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE TRAY	EA																		
633-3-13	FIBER OPTIC CONNECTION HARDWARE, F&I, PRETERMINATED CONNECTOR ASSEMBLY	EA																		
633-3-14	FIBER OPTIC CONNECTION HARDWARE, F&I, BUFFER TUBE FAN OUT KIT	EA																		
633-3-15	FIBER OPTIC CONNECTION HARDWARE, F&I, PRETERMINATED PATCH PANEL	EA																		
633-3-32	FIBER OPTIC CONNECTION HARDWARE, INSTALL, SPLICE TRAY	EA																		
633-3-33	FIBER OPTIC CONNECTION HARDWARE, INSTALL PRETERMINATED CONNECTOR ASSEMBLY	EA																		
633-3-34	FIBER OPTIC CONNECTION HARDWARE, INSTALL BUFFER TUBE FAN OUT KIT	EA																		
634-4-153	SPAN WIRE ASSEMBLY, F&I, TWO POINT, BOX	PI																		
634-5-1	FIBERGLASS INSULATOR, F&I	LF																		
635-2-11	PULL & SPLICE BOX F&I, (8" X 8") WATER TIGHT EMBEDDED JUNCTION BOX	EA																		
635-2-11	PULL & SPLICE BOX F&I, (13" X 24") JUNCTION BOX	EA	5		6		3		7		3		6		3		33			
635-2-12	PULL & SPLICE BOX F&I, (24" X 36") JUNCTION BOX	EA	2		2		2		2		2		2		2		14			
639-1-112	ELECTRICAL POWER SERVICE, F&I, OVERHEAD METER PURCHASED FROM POWER CO.	AS	1		1		1		1		1		1		1		7			
639-1-121	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER FURNISHED BY POWER CO.	AS																		
639-2-1	ELECTRICAL SERVICE WIRE, F&I	LF	190		120		90		170		90		125		30		815			
639-3-11	ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT	EA	1		1		1		1		1		1		1		6			
641-2-12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE	EA	2		2		1		2		1		2		1		11			
641-2-17	PRESTRESSED CONCRETE POLE, F&I, TYPE P-V11	EA																		
641-2-18	PRESTRESSED CONCRETE POLE, F&I, TYPE P-VIII	EA																		
641-2-80	PRESTRESSED CONCRETE POLE, COMPLETE POLE REMOVAL - POLE 30' AND GREATER	EA																		
646-1-11	ALUMINUM SIGNALS POLE, PEDESTAL	EA							1				1				2			
646-1-60	ALUMINUM SIGNALS POLE, REMOVE	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																		
650-1-60	VEHICULAR TRAFFIC SIGNAL, REMOVE - POLES TO REMAIN	AS																		
653-1-11	PEDESTRIAN SIGNAL, F&I, LED COUNTDOWN, 1 WAY	AS																		
653-1-12	PEDESTRIAN SIGNAL, F&I, LED COUNTDOWN, 2 WAYS	AS																		
653-1-60	PEDESTRIAN SIGNAL, REMOVE PED SIGNAL - POLE/PEDESTAL TO REMAIN	AS																		
654-2-21	RECTANGULAR RAPID FLASHING BEACON, F&I - SOLAR, COMPLETE ASSEMBLY - SINGLE DIRECTION	AS																		
654-2-22	RECTANGULAR RAPID FLASHING BEACON, F&I - SOLAR, COMPLETE ASSEMBLY - BACK TO BACK	AS																		
659-1-102	MOUNTING ASSEMBLY, F&I, SPAN WIRE ASSEMBLY	EA																		
660-2-101	LOOP ASSEMBLY, F&I, TYPE A	AS																		
660-2-106	LOOP ASSEMBLY, F&I, TYPE F	AS																		
663-1-311	SIGNAL PRIORITY & PREEMPTION SYSTEM, INSTALL, OPTICAL, CABINET ELECTRONICS	EA																		
665-1-11	PEDESTRIAN DETECTOR, F&I, STANDARD	EA							1								1			
665-1-12	PEDESTRIAN DETECTOR, F&I, ACCESSIBLE	EA																		
670-5-111	TRAFFIC CONTROL ASSEMBLY, F&I, NEMA, 1 PREEMPTION	AS																		
670-5-112	TRAFFIC CONTROL ASSEMBLY, F&I, NEMA, 2 PREEMPTION	AS																		
670-5-400	TRAFFIC CONTROL ASSEMBLY, MODIFY	AS																		
671-2-11	TRAFFIC CONTROL WITHOUT CABINET, F&I IN EXIST. CABINET, NEMA	EA																		
676-2-122	ITS CABINET, F&I, POLE MOUNT WITH SUNSHIELD, 336S, 24"W X 46"H X 22" D	EA	1		1		1		1		1		1		1		7			
684-1-1	MANAGED FIELD ETHERNET SWITCH, F&I	EA																		
685-1-11	UNINTERRUPTIBLE POWER SUPPLY, F&I, LINE INTERACTIVE	EA	1		1		1		1		1		1		1		7			
690-502	CONTROLLER ASSEMBLY, REMOVE, CONTROLLER UNIT	EA																		
700-1-50	SIGN PANEL, RELOCATE	AS																		
700-3-101	SIGN PANEL, F&I GROUND MOUNT, UP TO 12 SF	EA																		
700-3-201	SIGN PANEL, F&I OVERHEAD MOUNT, UP TO 12 SF	EA																		
700-3-205	SIGN PANEL, F&I OVERHEAD MOUNT, 51 - 100 SF	EA																		
700-5-21	INTERNALLY ILLUMINATED SIGN, F&I OVERHEAD MOUNT, UP TO 12 SF	EA																		
700-13-15	REFLECTIVE SIGN STRIP, F&I, 5'	EA																		
715-4-60	LIGHT POLE COMPLETE. RELOCATE	EA							1					1			2			
715-11-111	LUMINAIRE, F&I, ROADDWAY, COBRA HEAD	EA			1				1				1				3			

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LOCHNER  
 4550 W. CYPRESS STREET, SUITE 800  
 TAMPA, FLORIDA 33607  
 CERTIFICATE OF AUTHORIZATION NO. 894  
 ROB R. SWANN, P.E. NO. 59517



TABULATION OF QUANTITIES 06

SHEET NO.  
 T-8



TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS												ITERI'S SHEET 6 of 11		TOTAL THIS SHEET		GRAND TOTAL	
			T-65		T-66		T-67		T-68		T-70		PLAN	FINAL	PLAN	FINAL	PLAN	FINAL		
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL								
630-2-11	CONDUIT, F&I, OPEN TRENCH, CONDUIT 1"	LF															7350	7350		
630-2-11	CONDUIT, F&I, OPEN TRENCH, CONDUIT 2"	LF	50		80												4930	8670		
630-2-12	CONDUIT, F&I, DIRECTIONAL BORE	LF	150		15												165	4300		
630-2-14	CONDUIT, F&I, ABOVE GROUND	LF																25		
632-7-1	SIGNAL CABLE - NEW RECONSTRUCT INTERSECTION, F&I	PI	1		1												2	33		
633-1-121	FIBER OPTIC CABLE, F&I, UNDERGROUND, 2-12 FIBERS	LF																1830		
633-1-122	FIBER OPTIC CABLE, F&I, UNDERGROUND, 48 FIBERS	LF																		
633-2-31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA																72		
633-2-32	FIBER OPTIC CONNECTION, INSTALL, TERMINATION	EA																144		
633-3-11	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE ENCLOSURE	EA																9		
633-3-12	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE TRAY	EA																9		
633-3-13	FIBER OPTIC CONNECTION HARDWARE, F&I, PRETERMINATED CONNECTOR ASSEMBLY	EA																		
633-3-14	FIBER OPTIC CONNECTION HARDWARE, F&I, BUFFER TUBE FAN OUT KIT	EA																9		
633-3-15	FIBER OPTIC CONNECTION HARDWARE, F&I, PRETERMINATED PATCH PANEL	EA																		
633-3-32	FIBER OPTIC CONNECTION HARDWARE, INSTALL, SPLICE TRAY	EA																		
633-3-33	FIBER OPTIC CONNECTION HARDWARE, INSTALL PRETERMINATED CONNECTOR ASSEMBLY	EA																		
633-3-34	FIBER OPTIC CONNECTION HARDWARE, INSTALL BUFFER TUBE FAN OUT KIT	EA																		
634-4-153	SPAN WIRE ASSEMBLY, F&I, TWO POINT, BOX	PI																8		
634-5-1	FIBERGLASS INSULATOR, F&I	LF																		
635-2-11	PULL & SPLICE BOX F&I, (8" X 8") WATER TIGHT EMBEDDED JUNCTION BOX	EA										180					180	180		
635-2-11	PULL & SPLICE BOX F&I, (13" X 24") JUNCTION BOX	EA	3		4												7	197		
635-2-12	PULL & SPLICE BOX F&I, (24" X 36") JUNCTION BOX	EA	2		2												4	64		
639-1-112	ELECTRICAL POWER SERVICE, F&I, OVERHEAD METER PURCHASED FROM POWER CO.	AS	1		1												2	36		
639-1-121	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER FURNISHED BY POWER CO.	AS																		
639-2-1	ELECTRICAL SERVICE WIRE, F&I	LF	40		90												130	3650		
639-3-11	ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT	EA			1												1	26		
641-2-12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE	EA	1		2												3	57		
641-2-17	PRESTRESSED CONCRETE POLE, F&I, TYPE P-V11	EA																6		
641-2-18	PRESTRESSED CONCRETE POLE, F&I, TYPE P-VIII	EA																20		
641-2-80	PRESTRESSED CONCRETE POLE, COMPLETE POLE REMOVAL - POLE 30' AND GREATER	EA																20		
646-1-11	ALUMINUM SIGNALS POLE, PEDESTAL	EA																25		
646-1-60	ALUMINUM SIGNALS POLE, REMOVE	EA																3		
650-1-14	VEHICULAR TRAFFIC SIGNAL, F&I ALUMINUM, 3 SECTION, 1 WAY	AS																34		
650-1-19	VEHICULAR TRAFFIC SIGNAL, F&I ALUMINUM, 5 SECTION CLUSTER, 1 WAY	AS																1		
650-1-60	VEHICULAR TRAFFIC SIGNAL, REMOVE - POLES TO REMAIN	AS																6		
653-1-11	PEDESTRIAN SIGNAL, F&I, LED COUNTDOWN, 1 WAY	AS																50		
653-1-12	PEDESTRIAN SIGNAL, F&I, LED COUNTDOWN, 2 WAYS	AS																		
653-1-60	PEDESTRIAN SIGNAL, REMOVE PED SIGNAL - POLE/PEDESTAL TO REMAIN	AS																9		
654-2-21	RECTANGULAR RAPID FLASHING BEACON, F&I - SOLAR, COMPLETE ASSEMBLY - SINGLE DIRECTION	AS																11		
654-2-22	RECTANGULAR RAPID FLASHING BEACON, F&I - SOLAR, COMPLETE ASSEMBLY - BACK TO BACK	AS																1		
659-1-102	MOUNTING ASSEMBLY, F&I, SPAN WIRE ASSEMBLY	EA																		
660-2-101	LOOP ASSEMBLY, F&I, TYPE A	AS																		
660-2-106	LOOP ASSEMBLY, F&I, TYPE F	AS																2		
663-1-311	SIGNAL PRIORITY & PREEMPTION SYSTEM, INSTALL, OPTICAL, CABINET ELECTRONICS	EA																15		
665-1-11	PEDESTRIAN DETECTOR, F&I, STANDARD	EA																11		
665-1-12	PEDESTRIAN DETECTOR, F&I, ACCESSIBLE	EA																		
670-5-111	TRAFFIC CONTROL ASSEMBLY, F&I, NEMA, 1 PREEMPTION	AS																1		
670-5-112	TRAFFIC CONTROL ASSEMBLY, F&I, NEMA, 2 PREEMPTION	AS																		
670-5-400	TRAFFIC CONTROL ASSEMBLY, MODIFY	AS																1		
671-2-11	TRAFFIC CONTROL WITHOUT CABINET, F&I IN EXIST. CABINET, NEMA	EA																		
676-2-122	ITS CABINET, F&I, POLE MOUNT WITH SUNSHIELD, 336S, 24"W X 46"H X 22" D	EA	1		1												2	31		
684-1-1	MANAGED FIELD ETHERNET SWITCH, F&I	EA																		
685-1-11	UNINTERRUPTIBLE POWER SUPPLY, F&I, LINE INTERACTIVE	EA	1		1												2	36		
690-502	CONTROLLER ASSEMBLY, REMOVE, CONTROLLER UNIT	EA																		
700-1-11	SIGN ASSEMBLY, F&I, UP TO 12 SF	AS																2		
700-1-50	SIGN PANEL, RELOCATE	AS			1												1	2		
700-3-101	SIGN PANEL, F&I GROUND MOUNT, UP TO 12 SF	EA																5		
700-3-201	SIGN PANEL, F&I OVERHEAD MOUNT, UP TO 12 SF	EA																6		
700-3-205	SIGN PANEL, F&I OVERHEAD MOUNT, 51 - 100 SF	EA																6		
700-5-21	INTERNALLY ILLUMINATED SIGN, F&I OVERHEAD MOUNT, UP TO 12 SF	EA																9		
700-13-15	REFLECTIVE SIGN STRIP, F&I, 5'	EA																6		
715-4-60	LIGHT POLE COMPLETE. RELOCATE	EA	1		1												2	10		
715-11-111	LUMINAIRE, F&I, ROADDWAY, COBRA HEAD	EA																12		

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LOCHNER  
 4550 W. CYPRESS STREET, SUITE 800  
 TAMPA, FLORIDA 33607  
 CERTIFICATE OF AUTHORIZATION NO. 894  
 ROB R. SWANN, P.E. NO. 59517



TABULATION OF QUANTITIES 07


SHEET NO.  
S-9

**GENERAL NOTES**

1. THE LOCATIONS OF THE UTILITIES SHOWN IN THE PLANS ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS AND ELEVATIONS ONLY APPLY TO THE POINT SHOWN. INTERPOLATIONS BETWEEN THE ESE POINTS HAVE NOT BEEN VERIFIED. UTILITIES SHALL REMAIN UNLESS OTHERWISE NOTED.
2. THE CONTRACTOR SHALL NOTIFY UTILITY OWNERS OF ANY EXCAVATION OR DEMOLITION ACTIVITY THROUGH SUNSHINE ONE CALL OF FLORIDA INC. (SSOCOF) AT 1-800-432-4770 OR 811 AND SHALL ALSO NOTIFY THOSE UTILITY OWNERS LISTED WITHIN OR IMPACTED BY WORKING WITHIN THESE PLANS NOT LESS THAN TWO (2) FULL BUSINESS DAYS IN ADVANCE OF BEGINNING CONSTRUCTION. NOTE ALL UTILITY OWNERS ARE MEMBERS OF SSOCOF.
3. THE MAINTAINING AGENCY SHALL COORDINATE UTILITY RELOCATIONS IF NECESSARY. THE CONTRACTOR SHALL ADJUST THE LOCATION OF THE SIGNAL POLES AND PULL BOXES TO AVOID UTILIZES OR OTHER FEATURES. THE CONTRACTOR SHALL REQUEST APPROVAL FROM THE ENGINEER PRIOR TO THE ADJUSTMENTS.
4. THE CONTRACTOR SHALL PROVIDE DUKE ENERGY AT LEAST FOURTEEN (14) DAYS IN ADVANCE NOTICE PRIOR TO WORKING IN CLOSE PROXIMITY TO OVERHEAD AND UNDERGROUND ELECTRIC LINES. IF SPECIAL EQUIPMENT IS REQUIRED ALL COSTS SHALL BE INCLUDED IN THE NEW POLE/STRUCTURE PAY ITEMS. THE CONTRACTOR SHALL COORDINATE ALL MAST ARM POLE INSTALLATIONS WITH DUKE ENERGY AS APPROPRIATE. WHERE OVERHEAD LINES ARE TO REMAIN IN PLACE ENERGIZED THE CONTRACTOR SHALL MEET OSHA RULE 1926 AND ALL SUB PARTS OF THIS RULE.
5. CONTRACTOR SHALL UTILIZE LOW PROFILE EQUIPMENT WHEN OPERATION NEAR OVERHEAD ELECTRIC LINES TO MAINTAIN SETBACK REQUIREMENTS PER THE MOST CURRENT OSHA GUIDELINES.
6. THE CONTRACTOR SHALL MAKE SURE ALL EQUIPMENT IS PROPERLY GROUNDED AND FOLLOW ALL APPLICABLE OSHA AND NEC RULES WHERE WORKING UNDER OR NEAR EXISTING OVERHEAD / UNDERGROUND POWER DISTRIBUTION OR TRANSMISSION LINES.
7. THE CONTRACTOR IS PROHIBITED FROM STACKING MATERIALS UNDER OR ABOVE ENERGIZED POWER LINES.
8. THE CONTRACTOR SHALL COORDINATE WITH DUKE ENERGY FOR GUIDELINES WHEN REQUESTING OUTAGES.
9. THE CONTRACTOR IS HEREBY NOTIFIED THAT ABOVE GROUND OR UNDERGROUND UTILITIES MAY BE IN THE AREA OF THIS PROJECT AND ARE TO BE ADJUSTED BY OTHERS AS DIRECTED BY THE MUNICIPALITY / ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR UTILITY COORDINATION.
- ~~10. THE CONTRACTOR SHALL SECURE THE NECESSARY PERMITS / RIGHT-OF-WAY ENTRY FROM THE CITY OF ST. PETERSBURG FOR ANY WORK WITHIN THE CITY'S RIGHT-OF-WAY AND EASEMENTS. THE CONTRACTOR SHALL ALSO NAME THE CITY OF ST. PETERSBURG AS AN ADDITIONAL PARTY TO THE INSURANCE COVERAGE.~~
- ~~11. ALL DISTURBED AREAS INCLUDING AREAS OUTSIDE THE CONSTRUCTION LIMITS SHALL BE RETURNED TO THEIR PRE-CONSTRUCTION CONDITION AS THE CONTRACTOR'S EXPENSE. GRASS AREAS SHALL BE SODDED, NOT SEEDED AND MULCHED.~~
- ~~12. THE CONTRACTOR SHALL PROVIDE AND IMPLEMENT SITE SPECIFIC EROSION AND SEDIMENT CONTROL PROCEDURES SUCH AS SYNTHETIC BALES, STAKED SILT BARRIERS, FLOATING TURBIDITY BARRIER, OR OTHER APPROVED METHODS AS REQUIRED TO PREVENT THE TRANSPORTATION OF SEDIMENT DOWNSTREAM INTO STREETS, STORM DRAINS, DITCHES, PONDS, ETC.~~
13. THE EXISTING CITY TRAFFIC SIGNS WITHIN THE PROPOSED CONSTRUCTION LIMITS ARE TO BE PROTECTED BY THE CONTRACTOR. CAUTION SHOULD BE EXERCISED WHILE RELOCATION EXISTING SIGNS WHERE DIRECTED. IF THE SIGNS ARE DAMAGED BEYOND USE, AS DETERMINED BY THE CITY / ENGINEER, THE DAMAGED SIGNALS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
14. THE CONTRACTOR SHALL NOTIFY THE PROPERTY OWNERS, 48 HOURS IN ADVANCE OF CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL NOT RESTRICT ACCESS, DELIVERY, ETC. TO THE PROPERTIES AND SHALL MAINTAIN SAFE AND DIRECT ACCESS AT ALL TIMES.
- ~~15. ALL FIELD LAYOUT AND SURVEYING FOR CONSTRUCTION OF THIS PROJECT SHALL BE PROVIDED BY THE CONTRACTOR AT THEIR EXPENSE, UNDER THE DIRECTION OF A LICENSED PROFESSIONAL LAND SURVEYOR.~~
- ~~16. VERTICAL CONTROL IS BASED UPON THE CITY OF ST. PETERSBURG DATUM ELEVATION OF 97.00 WHICH IS EQUAL TO 00.00 N.G.V.F. (1929)~~
- ~~17. THE CONTRACTOR SHALL PROVIDE ALL DEWATERING EQUIPMENT NECESSARY TO KEEP EXCAVATIONS DRY AND SHALL PROVIDE ALL SHORING, SHEETING, AND BRACING NECESSARY TO PROTECT WORKMEN, ADJACENT STRUCTURES, UTILITIES, EXISTING PAVEMENT OR TO MINIMIZE TRENCH WIDTH AT THE CONTRACTORS EXPENSE.~~
18. THE CONTRACTOR SHALL MAINTAIN STREET NAME IDENTIFICATION VISIBLE DURING CONSTRUCTION OPERATIONS.
19. SIGNALS TO BE MAINTAINED BY; CITY OF ST. PETERSBURG
20. ALL SIGNAL EQUIPMENT SHALL BE COMPLIANT WITH CITY OF ST. PETERSBURG STANDARDS.
21. AT LEAST TWO (2) BUSINESS DAYS PRIOR TO BEGINNING THE TRAFFIC SIGNAL INSTALLATION, THE CONTRACTOR SHALL CONTACT;  
CITY OF ST. PETERSBURG  
TRAFFIC SIGNAL SHOP SUPERVISOR  
1744 9TH AVENUE NORTH  
ST. PETERSBURG, FL 33713  
PHONE 727-893-7478
22. THE CONTRACTOR SHALL NOTIFY THE CITY OF ST. PETERSBURG SIGNAL SHOP AT LEAST AT LEASE 2 BUSINESS DAYS IN ADVANCE OF TURNING ON A NEW OR MODIFIED CONTROLLER CABINET ASSEMBLY.
23. ALL CRITICAL ELEVATIONS SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO ORDERING ANY STRUCTURES.
- ~~24. THE CONTRACTOR SHALL MEET THE CRITERIA OUTLINED IN THE MOST CURRENT, FLORIDA DESIGN MANUAL, FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD PLANS, FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.~~
25. THE MANUAL PUSH BUTTON CORD AND TWO SETS OF CABINET KEYS SHALL BE FURNISHED IN ALL CONTROLLER CABINETS.
26. THE CONTRACTOR SHALL SUBMIT THE AS-BUILT PLANS TO THE CITY / ENGINEER FOR APPROVAL PRIOR TO THE 48 HOUR TEST. UPON COMPLETION OF THE 48 HOUR TEST, THE CONTRACTOR SHALL PROVIDE A FINAL SET OF AS-BUILT PLANS TO THE CITY / ENGINEER WITHIN 5 DAYS.
27. THE CONTRACTOR SHALL HAND DIG THE FIRST 48 INCHES (4 FEET) OF THE HOLE OF THE POLE FOUNDATION OR CONDUIT RUN WHERE UTILITIES ARE IN CLOSE PROXIMITY.
28. IT SHOULD BE NOTED THAT NO TEST BORINGS WERE MADE WHERE CONDUIT RUNS ARE TO BE INSTALLED.
29. ALL CONDUITS AND PULL BOXES ARE SCHEMATIC AND FIELD ADJUSTMENTS MAY BE NECESSARY WITH THE EXCEPTION OF ELECTRICAL DUCTS AND JACK & BORE SLEEVES.

**PAY ITEM NOTES**

1. 630-2-11; CONDUIT SHALL BE SCHEDULE 40 PVC WITH A MINIMUM SIZE OF TWO (2") INCHES UNLESS OTHERWISE NOTED IN THE PLANS. THERE SHALL BE TWO SPARE TWO (2") INCH CONDUITS BETWEEN THE CONTROLLER FOUNDATION AND SPARE PULL BOX FOR FUTURE ACCESS / NEEDS. ALL SPARE CONDUITS SHALL BE SEALED WITH A WATERTIGHT CAP.
2. 630-2-12; CONDUITS INSTALLED BY DIRECTIONAL BORE SHALL BE HDPE WITH A MINIMUM SIZE OF TWO (2") INCHES. ALL SPARE CONDUITS SHALL BE SEALED WITH A WATERTIGHT CAP.
3. 632-7-1; EACH PHASE / MOVEMENT SHALL BE WIRED FROM THE SIGNAL DISPLAY TO THE CONTROLLER AS A SEPARATE PHASE / MOVEMENT. THIS INCLUDES TURN MOVEMENT WHICH SHALL HAVE CONDUCTORS AVAILABLE FOR EITHER PROTECTED OR PERMISSIVE MOVEMENTS. THE CONTRACTOR SHALL VERIFY COLOR CODES FOR SIGNAL CABLE AND INTERCONNECT WITH THE CITY OF ST. PETERSBURG TRAFFIC ENGINEER BEFORE ORDERING SIGNAL WIRE WITH THE CORRECT COLOR CODE AND SPECIFICATIONS. THERE SHALL BE ONE NEUTRAL PER APPROACH.
4. 635-2-11; USE FDOT APPROVED POLYMER CONCRETE CONSTRUCTION PULL BOXES WITH POLYMER CONCRETE COVER. PULL BOXES ARE TO BE PLACED BEHIND CURB AND GUTTER. IF THERE IS NO CURB AND GUTTER, PULL BOXES SHALL BE PLACED A MINIMUM OF 7 FEET FROM THE EDGE OF PAVEMENT. IF IN OR ADJACENT TO SIDEWALK, PULL BOXES SHALL BE FLUSH WITH SIDEWALKS OR OTHER CONCRETE, OTHERWISE 1.5 INCHES ABOVE EXISTING GRADE. ALL PULL BOX LIDS SHALL HAVE "TRAFFIC SIGNAL" PERMANENTLY CAST INTO THE PULL BOX LID IN RAISED LETTERS. PULL BOX DIMENSIONS SHALL BE 17" X 30" X 12" FOR TRAFFIC SIGNAL APPLICATIONS. THIS PAY ITEM SHALL INCLUDE THE COST TO REPAIR AND/OR REPLACEMENT OF SIDEWALK, PAVERS, OR OTHER SURFACE IN LIKE KIND IF A VOID OR DAMAGED SURFACE IS THE RESULT OF THE CONTRACTORS WORK.
5. 639-1-112; THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE POWER COMPANY FOR POWER SERVICE INSTALLATION FEES. THE COST OF THE POWER SERVICE SHALL BE INCLUDED IN THIS PAY ITEM. THE METER CAN, DISCONNECT, WIRE, CONDUIT, PULL BOX, PANEL, BREAKERS FOR A COMPLETE AND OPERATIONAL SHALL BE INCLUDED IN THIS PAY ITEM FOR A COMPLETE AND OPERATIONAL POWER SERVICE ASSEMBLY.
6. 650-1-14 AND 650-1-19; ALL SIGNAL HEADS SHALL INCLUDE TUNNEL VISORS AND LOUVERED ALUMINUM BACKPLATES WITH TWO (2") INCH YELLOW REFLECTIVE BORDERS WITH TYPE III REFLECTIVITY.
7. 670-5-111; THE TRAFFIC CONTROLLER SHALL BE AN ECONOLITE COBALT CONTROLLER AS PART OF THE CONTROLLER ASSEMBLY. A 4G WIRELESS DEVICE SHALL BE PROVIDED AND INTERFACED WITH THE CONTROLLER FOR COMMUNICATION WITH THE CITY OF ST. PETERSBURG TRAFFIC MANAGEMENT CENTER. ALL CONTROLLER EQUIPMENT SHALL BE COMPATIBLE WITH THE CITY OF ST. PETERSBURG'S EXISTING TRAFFIC SYSTEM. CONTACT THE CITY OF ST. PETERSBURG PRIOR TO ORDERING THE CONTROLLER ASSEMBLY TO CONFIRM EQUIPMENT COMPATIBILITY. THE CONTROLLER SHALL BE HOUSED IN A TYPE "V" TS2 TYPE 1 CABINET. THE CABINET SHALL INCLUDE AN EIGHT PHASE BACKPLANE WITH A MINIMUM OF 16 POSITIONS ON THE LOAD BAY AND SHALL INCLUDE ADDITIONAL COST OF LABOR, CONCRETE, AND OTHER MATERIALS FOR THE CONTROLLER BASE, PAD AND STEPS AS ONE UNIT. COMPACTION SHALL BE PART OF THE CONSTRUCTION OF THE CONTROLLER BASE, PAD, STEPS AND THE IMMEDIATE VICINITY OF THIS WORK. COST FOR THIS WORK SHALL BE INCLUDED IN THIS PAY ITEM. THE CONTROLLER CABINET SHALL BE PAINTED TO MATCH THE MAST ARM POLES. THE CONTRACTOR SHALL FOLLOW THE MANUFACTURER'S RECOMMENDATIONS WITH RESPECT TO THE MATERIALS BEING PAINTED. COST FOR PAINTING SHALL BE INCLUDED IN THIS PAY ITEM. THE CONTROLLER CABINET DOOR SHALL OPEN AWAY FROM TRAFFIC. THE TECHNICIAN SERVICE SLAB SHALL BE A MAXIMUM OF FOUR (4) INCHES BELOW THE TOP OF THE CONCRETE PAD.
8. 685-1-11; SHALL INCLUDE A LINE INTERACTIVE UNINTERRUPTIBLE POWER SUPPLY UNIT (UPS) MOUNTED EXTERNALLY TO THE CONTROLLER CABINET. INSTALL THE UPS UNIT IN ACCORDANCE WITH MANUFACTURE'S RECOMMENDATIONS. THE UNIT SHALL BE COMPATIBLE WITH THE CITY OF ST. PETERSBURG'S EXISTING SYSTEM.

REVISIONS				LOCHNER 4550 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607 CERTIFICATE OF AUTHORIZATION NO. 894 ROB R. SWANN, P.E. NO. 59517	  <b>CENTRAL AVE. BRT</b>	<b>GENERAL NOTES &amp; PAY ITEM NOTES</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				T-10


**GENERAL NOTES**

1. COMPLY WITH ALL STATE, COUNTY, AND LOCAL ORDINANCES AND OBTAIN NECESSARY WORK PERMITS THAT ARE REQUIRED PRIOR TO CONSTRUCTION.
2. LOCATION, ELEVATION, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES ARE SHOWN IN ACCORDANCE WITH THE BEST INFORMATION AVAILABLE AT THE TIME OF THE PREPARATION OF THESE PLANS, BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT. VERIFY THE LOCATION, ELEVATION, AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES AFFECTING THE WORK.
3. PROVIDE TWO WORKING DAYS NOTICE TO UTILITY AGENCY/OWNER'S (UAO), AND ST. PETERSBURG TRAFFIC OPERATIONS, IN ORDER TO LOCATE AND IDENTIFY THEIR EXISTING UNDERGROUND FACILITIES PRIOR TO CONSTRUCTION, AS ESTABLISHED BY THE "UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT". KNOWN UAO'S ARE:

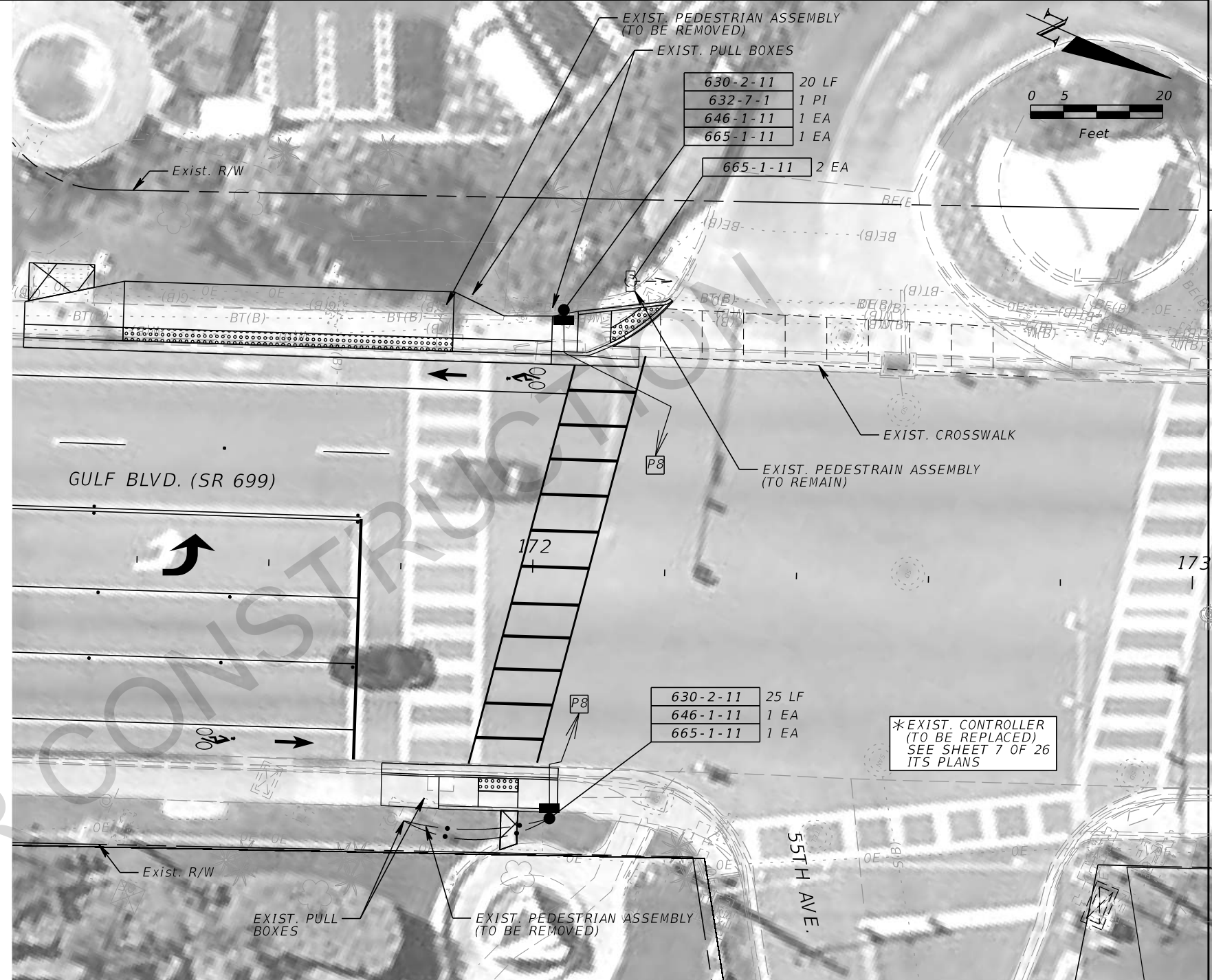
SEE UTILITY AGENCY/OWNER TABLE:

4. COORDINATE CONSTRUCTION SCHEDULING WITH UTILITY AGENCY/OWNER'S. MEET WITH UAO'S PRIOR TO THE PRE-CONSTRUCTION CONFERENCE TO ADJUST THEIR SCHEDULES TO COINCIDE WITH THE CONSTRUCTION SCHEDULE.
5. UTILITY ADJUSTMENTS SHOWN IN THIS CONTRACT PLAN SET MUST BE PERFORMED BY THE UTILITY AGENCY WHEN UTILITY CONSTRUCTION PLANS ARE NOT INCLUDED IN THE CONTRACT PLAN SET.
6. ERECT EROSION CONTROL DEVICES PRIOR TO LAND ALTERATIONS, MAINTAIN THEM DURING CONSTRUCTION, AND REMOVE THEM FOLLOWING SOIL STABILIZATION AND FINAL DRESSING. INSTALL AND MAINTAIN EROSION CONTROL DEVICES AS REQUIRED BY ACTUAL SITE CONDITIONS TO REFLECT PROJECT PHASING REQUIREMENTS, AND AS DIRECTED BY THE COUNTY'S ENGINEER.
7. IF AREA OF DISTURBED SOIL IS ONE (1) ACRE OR GREATER, PREPARE AND SUBMIT A NOTICE OF INTENT FOR COVERAGE UNDER THE FDEP NPDES CONSTRUCTION GENERIC PERMIT, COMPLY WITH ALL PROVISIONS OF THAT PERMIT AND PREPARE A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) PER FDEP GUIDANCE.
8. DO NOT DISCHARGE DIRECTLY TO RECEIVING WATERS OR EXISTING CONVEYANCES THAT DISCHARGE TO RECEIVING WATERS OR WETLAND SYSTEMS DURING DEWATERING OPERATIONS. UTILIZE TEMPORARY SEDIMENT BASINS OR TRAPS TO COLLECT THE DISCHARGE FROM DEWATERING ACTIVITIES TO ELIMINATE THE POTENTIAL FOR OFFSITE SEDIMENT TRANSPORT.
9. CONNECTIONS TO ADJACENT PROPERTIES SHOWN ON THE PLANS MAY BE MOVED, ADJUSTED, MODIFIED, ADDED OR DELETED AT THE PROPERTY OWNER'S REQUEST SUBSEQUENT TO APPROVAL BY THE COUNTY'S ENGINEER.
10. THE COUNTY MAY SUBSTITUTE A GRAVITY WALL FOR A GRADED AND HARMONIZED SLOPE OR VICE VERSA PURSUANT TO THE PROPERTY OWNER'S REQUEST AND CONTINGENT UPON APPROVAL BY THE COUNTY'S ENGINEER.
11. CONNECTION TO EXISTING ACCESS NOT INDICATED ON THE PLANS MUST BE MADE AT THE DIRECTION OF THE COUNTY'S ENGINEER.
12. ALL CONNECTION APPROVALS BY THE COUNTY'S ENGINEER MUST BE SUBJECT TO CONFORMANCE WITH APPLICABLE STANDARDS, CODES AND REGULATIONS, AND CONDITIONED UPON GRANT OF RIGHT OF ENTRY BY THE PROPERTY OWNER.
13. ALL EXISTING DRAINAGE STRUCTURES WITHIN THE RIGHT-OF-WAY MUST REMAIN UNLESS SHOWN ON THE PLANS AS "REMOVE".
- ~~14. PROPOSED PIPE MUST BE REINFORCED CONCRETE PIPE (RCP) CLASS III UNLESS OTHERWISE NOTED ON THE PLANS.~~
- ~~15. SPECIAL ATTENTION IS DIRECTED TO THE FACT THAT PORTIONS OF SOME DRAINAGE STRUCTURES EXTEND INTO THE STABILIZED PORTION OF THE ROAD BED AND EXTREME CAUTION WILL BE NECESSARY IN STABILIZATION OPERATIONS AT THOSE LOCATIONS.~~
- ~~16. ALL CONCRETE COLLARS AND CONCRETE JACKETS MUST BE CURED AND INSPECTED TO BE FREE OF CRACKING PRIOR TO BACKFILLING.~~
17. TREE TRIMMING MAY BE REQUIRED TO PROVIDE VERTICAL OR HORIZONTAL CLEARANCES OR ADEQUATE SIGHT DISTANCE AS DIRECTED BY THE COUNTY'S ENGINEER. ALL EXPENSES INCURRED FOR THIS WORK WILL BE INCLUDED IN THE BID PRICE FOR CLEARING AND GRUBBING.

18. ANY DAMAGE TO STATE, COUNTY, OR LOCAL ROADS CAUSED BY HAULING OR EXCAVATION EQUIPMENT MUST BE REPAIRED TO THE SATISFACTION OF THE COUNTY'S ENGINEER AT THE CONTRACTOR'S EXPENSE.
19. ANY U.S.C. & G.S. MONUMENT WITHIN LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF IN DANGER OF DAMAGE, PROJECT ENGINEER SHOULD NOTIFY:  
DIRECTOR, NATIONAL GEODETIC SURVEY  
1315 EAST-WEST HIGHWAY  
SILVER SPRING, MARYLAND 20910-3282  
PHONE: (301) 713-3242
20. ALL STATION AND OFFSET REFERENCES ARE TO BASELINE OF SURVEY, UNLESS OTHERWISE NOTED.
21. BEARINGS AND COORDINATES ARE REFERENCED TO THE FLORIDA STATE PLANE COORDINATE SYSTEM, FLORIDA WEST ZONE, NORTH AMERICAN DATUM OF 1983, 2011 ADJUSTMENT. ALL ELEVATIONS ARE REFERENCED TO N.A.V.D. 1988
- ~~22. MAINTENANCE OF TRAFFIC MUST BE IN ACCORDANCE WITH PINELLAS COUNTY PUBLIC WORKS STANDARD SPECIFICATIONS, SECTION 01500 MAINTENANCE OF TRAFFIC. USE THE FOLLOWING INFORMATION IN DEVELOPING A MAINTENANCE OF TRAFFIC PLAN:~~
  - THE REGULATORY SPEED MUST REMAIN THE SAME AS THE EXISTING POSTED SPEED LIMIT.
  - WORK ZONE SPEED LIMIT = 35 MPH (UNLESS EXISTING POSTED SPEED IS LESS)
  - MAINTAIN THE EXISTING NUMBER OF LANES AND 2-WAY TRAFFIC AT ALL TIMES.
  - NO LANE CLOSURE RESTRICTIONS WILL BE ALLOWED BETWEEN THE HOURS OF 9:00 AM TO 4:00 PM.
  - PROVIDE PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) ONE WEEK IN ADVANCE NOTIFYING THE START OF CONSTRUCTION DATE.
  - PROVIDE TEMPORARY TRAFFIC CONTROL FOR BICYCLISTS AND PEDESTRIANS WHEN EXISTING BICYCLE AND PEDESTRIAN FACILITIES ARE IMPACTED.
  - UTILIZE STANDARD PLAN INDEX 102-600 AND THE APPLICABLE STANDARD PLANS IN THE 102-6"XX"SERIES IN DEVELOPING THE MAINTENANCE OF TRAFFIC PLAN

REVISIONS				LOCHNER 4550 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607 CERTIFICATE OF AUTHORIZATION NO. 894 ROB R. SWANN, P.E. NO. 59517	  <b>CENTRAL AVE. BRT</b>	GENERAL NOTES (02)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				T-11

P8  
  
 PED. SIGNAL  
 COUNT-DOWN  
 1-SECT., 1-WAY  
 2 AS  
 653-1-11



\* ALL EXISTING TIMINGS TO REMAIN

CONTROLLER TIMINGS								
TIMING FUNCTION								
MOVEMENT NUMBER	1	2	3	4	5	6	7	8
MINIMUM GREEN	-	-	-	-	-	-	-	-
EXTENSION	-	-	-	-	-	-	-	-
MAXIMUM GREEN 1	-	-	-	-	-	-	-	-
MAXIMUM GREEN 2	-	-	-	-	-	-	-	-
YELLOW CLEARANCE	-	-	-	-	-	-	-	-
ALL RED	-	-	-	-	-	-	-	-
PEDESTRIAN WALK	-	-	-	-	-	-	-	7
PED. CLEARANCE	-	-	-	-	-	-	-	24
RECALL	-	-	-	-	-	-	-	-

GULF BLVD. (SR 699) POSTED SPEED 35 MPH,  
 55th AVE. POSTED SPEED 25 MPH.

\*EXIST. CONTROLLER  
 (TO BE REPLACED)  
 SEE SHEET 7 OF 26  
 ITS PLANS

REMOVAL ITEMS:

646-1-60	2 EA
653-1-60	1 AS

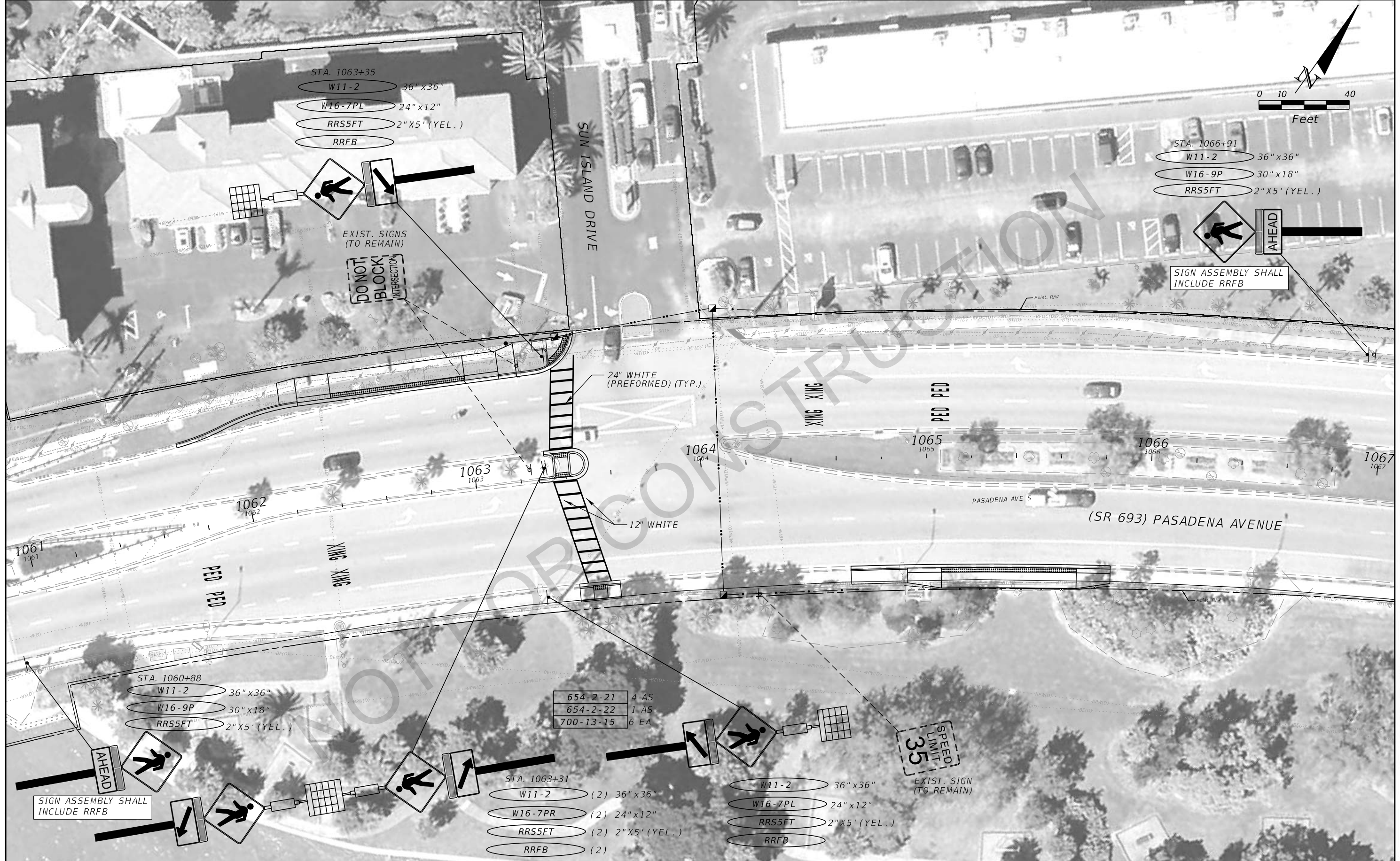
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

**LOCHNER**  
 4350 W. CYPRESS STREET, SUITE 800  
 TAMPA, FLORIDA 33607  
 CERTIFICATE OF AUTHORIZATION NO. 894  
 ROB R. SWANN, P.E. NO. 59517



**SIGNALIZATION PLAN**  
 GULF BLVD. @ 55TH AVE.

SHEET NO.  
 T-12



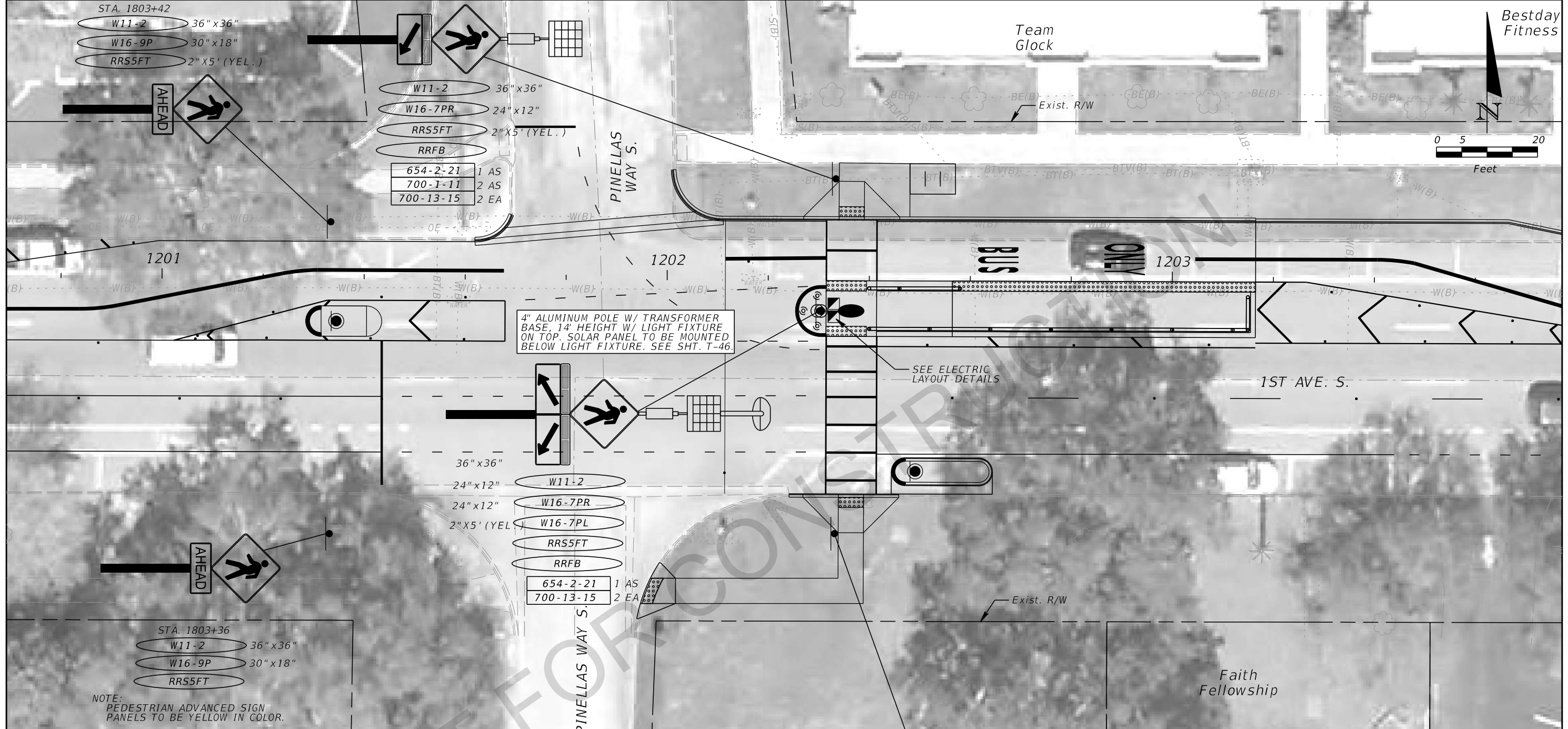
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

**LOCHNER**  
 4550 W. CYPRESS STREET, SUITE 800  
 TAMPA, FLORIDA 33607  
 CERTIFICATE OF AUTHORIZATION NO. 894  
 ROB R. SWANN, P.E. NO. 59517



**SIGNALIZATION PLAN**  
 PASADENA AVE. @ SUN ISLAND DR.

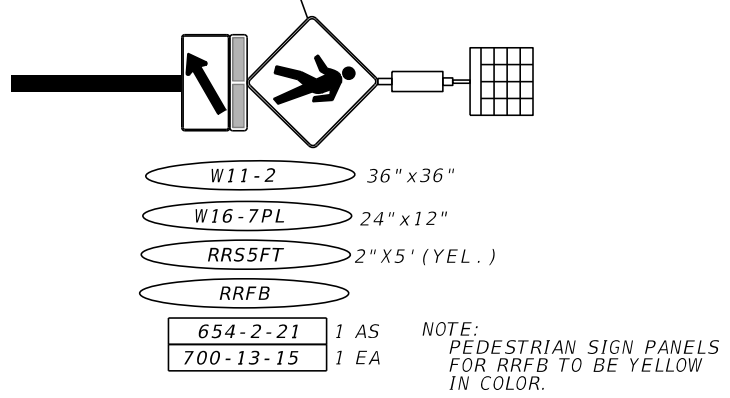
SHEET NO.  
 T-13



**CONTROLLER TIMINGS**

TIMING FUNCTION	MOVEMENT NUMBER	1	2	3	4	5	6	7	8
TIMING FUNCTION	MINIMUM GREEN	-	-	-	-	-	-	-	-
	EXTENSION	-	-	-	-	-	-	-	-
	MAXIMUM GREEN 1	-	-	-	-	-	-	-	-
	MAXIMUM GREEN 2	-	-	-	-	-	-	-	-
	YELLOW CLEARANCE	-	-	-	-	-	-	-	-
	ALL RED	-	-	-	-	-	-	-	-
	PEDESTRIAN WALK	-	7	-	-	-	-	-	-
	PED. CLEARANCE	-	24	-	-	-	-	-	-
	RECALL	-	-	-	-	-	-	-	-

1st AVE. S. POSTED SPEED 40 MPH,  
PINELLAS WAY S. POSTED SPEED 25 MPH.



REVISIONS	
DATE	DESCRIPTION

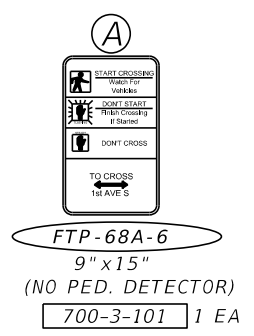
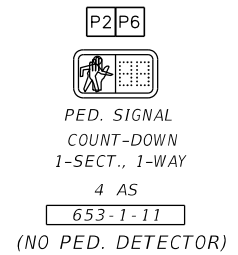
**LOCHNER**  
4550 W. CYPRESS STREET, SUITE 800  
TAMPA, FLORIDA 33607  
CERTIFICATE OF AUTHORIZATION NO. 894  
ROB R. SWANN, P.E. NO. 59517



**SIGNALIZATION PLAN**  
**1st AVE. S. @ 34th St. S.**

STATION 12

SHEET NO.  
T-14



**CONTROLLER OPERATION**

- EXISTING S.O.P AND TIMINGS TO REMAIN.

**CONTRACTOR NOTES:**

- CONTRACTOR TO UTILIZE EXISTING CONDUITS IN CONTROLLER TO CONNECT NEW AND EXISTING CONDUIT/WIRING AS NEEDED.
- REMOVAL OF EXISTING PULL BOX SHALL BE INCLUDED WITH THE INSTALLATION OF THE NEW PULL BOX. EXTEND EXISTING CONDUITS WITH NEW PULL BOXES FOR HIGH/LOW OPERATION.

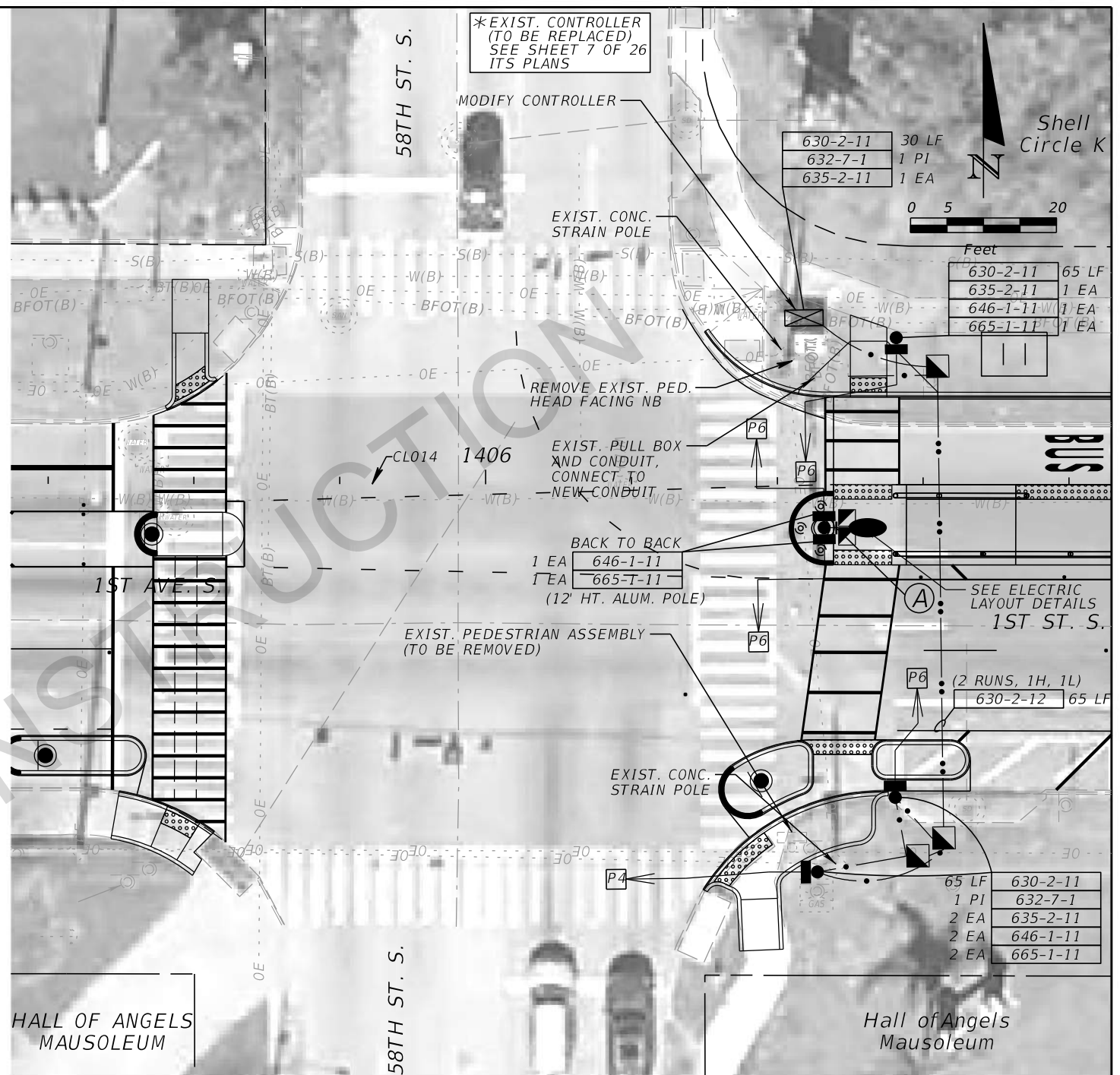
**TRAFFIC CONTROL GENERAL NOTES:**

- TRAFFIC CONTROL SHALL BE PERFORMED IN ACCORDANCE TO WITH STANDARD INDEXES 102-600, 102-611, 102-612, 102-613, 102-615, 102-616, 102-660 AND 706-001.
- WHENEVER CONSTRUCTION EQUIPMENT IS BEING DRIVEN OR TRANSPORTED ON THE OPEN TRAVEL LANES, THE CONTRACTOR SHALL UTILIZE FDOT STANDARDS INDEX NO. 102-613.
- A LANE CLOSURE WILL BE REQUIRED WHENEVER A BOOM ARM OR BUCKET CROSSES A TRAVEL LANE, INDEX SERIES 102-600.
- PAY ITEM 102-1 LUMP SUM INCLUDES ALL TRAFFIC CONTROL ITEMS TO SAFELY MAINTAIN TRAFFIC.

\* ALL EXISTING TIMINGS TO REMAIN

CONTROLLER TIMINGS									
TIMING FUNCTION		1	2	3	4	5	6	7	8
TIMING FUNCTION	MOVEMENT NUMBER								
	MINIMUM GREEN	-	-	-	-	-	-	-	-
	EXTENSION	-	-	-	-	-	-	-	-
	MAXIMUM GREEN 1	-	-	-	-	-	-	-	-
	MAXIMUM GREEN 2	-	-	-	-	-	-	-	-
	YELLOW CLEARANCE	-	-	-	-	-	-	-	-
	ALL RED	-	-	-	-	-	-	-	-
	PEDESTRIAN WALK	-	7	-	-	-	7	-	-
	PED. CLEARANCE	-	24	-	-	-	24	-	-
	RECALL	-	YES	-	-	-	YES	-	-

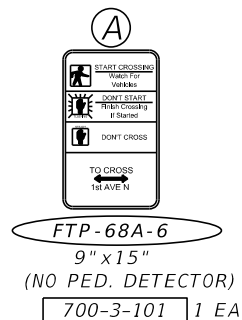
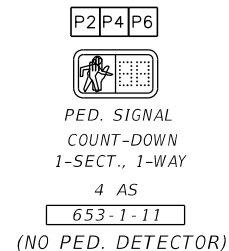
1st AVE. S. POSTED SPEED 40 MPH,  
58th ST. S. POSTED SPEED 35 MPH.



**REMOVAL ITEMS:**

646-1-60	1 AS
653-1-60	2 AS

<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					<p><b>LOCHNER</b> 4550 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607 CERTIFICATE OF AUTHORIZATION NO. 894 ROB R. SWANN, P.E. NO. 59517</p>	<p><b>CENTRAL AVE. BRT</b></p>	<p><b>SIGNALIZATION PLAN</b> 1st Ave. S. @ 58th St. S.</p>	<p>STATION 14</p> <p>SHEET NO. T-15</p>
REVISIONS																	
DATE	DESCRIPTION	DATE	DESCRIPTION														



**CONTROLLER OPERATION**

- EXISTING S.O.P AND TIMINGS TO REMAIN.

**CONTRACTOR NOTES:**

- CONTRACTOR TO UTILIZE EXISTING CONDUITS IN CONTROLLER TO CONNECT NEW AND EXISTING CONDUIT/WIRING AS NEEDED.
- REMOVAL OF EXISTING PULL BOX SHALL BE INCLUDED WITH THE INSTALLATION OF THE NEW PULL BOX. EXTEND EXISTING CONDUITS WITH NEW PULL BOXES FOR HIGH/LOW OPERATION.

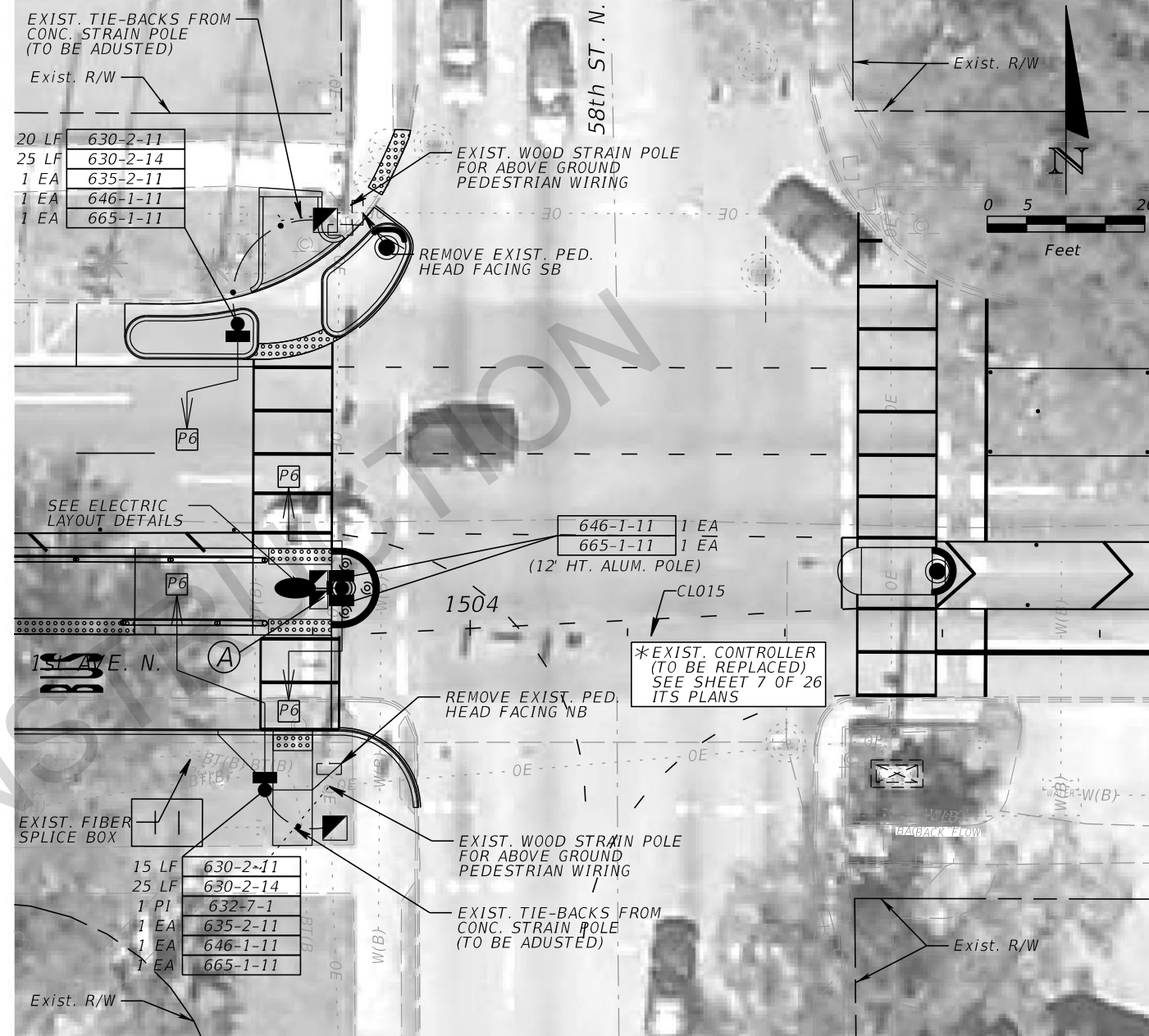
**TRAFFIC CONTROL GENERAL NOTES:**

- TRAFFIC CONTROL SHALL BE PERFORMED IN ACCORDANCE TO WITH STANDARD INDEXES 102-600, 102-611, 102-612, 102-613, 102-615, 102-616, 102-660 AND 706-001.
- WHENEVER CONSTRUCTION EQUIPMENT IS BEING DRIVEN OR TRANSPORTED ON THE OPEN TRAVEL LANES, THE CONTRACTOR SHALL UTILIZE FDOT STANDARDS INDEX NO. 102-613.
- A LANE CLOSURE WILL BE REQUIRED WHENEVER A BOOM ARM OR BUCKET CROSSES A TRAVEL LANE, INDEX SERIES 102-600.
- PAY ITEM 102-1 LUMP SUM INCLUDES ALL TRAFFIC CONTROL ITEMS TO SAFELY MAINTAIN TRAFFIC.

\* ALL EXISTING TIMINGS TO REMAIN

CONTROLLER TIMINGS									
TIMING FUNCTION	MOVEMENT NUMBER	1	2	3	4	5	6	7	8
MINIMUM GREEN		-	-	-	-	-	-	-	-
EXTENSION		-	-	-	-	-	-	-	-
MAXIMUM GREEN 1		-	-	-	-	-	-	-	-
MAXIMUM GREEN 2		-	-	-	-	-	-	-	-
YELLOW CLEARANCE		-	-	-	-	-	-	-	-
ALL RED		-	-	-	-	-	-	-	-
PEDESTRIAN WALK		-	7	-	-	-	7	-	-
PED. CLEARANCE		-	24	-	-	-	24	-	-
RECALL		-	YES	-	-	-	YES	-	-

1st AVE. N. POSTED SPEED 40 MPH,  
58th ST. N. POSTED SPEED 35 MPH.



**REMOVAL ITEMS:**

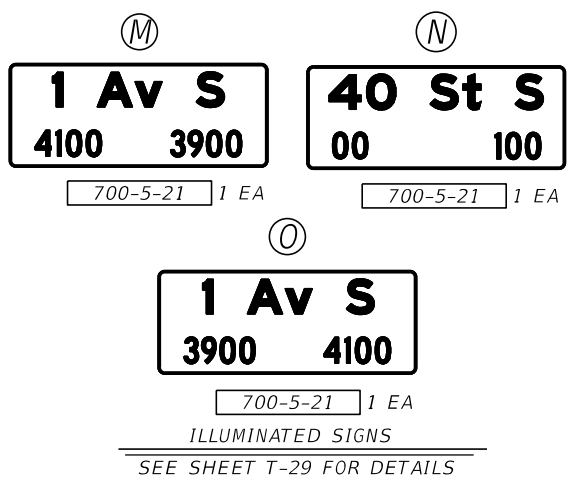
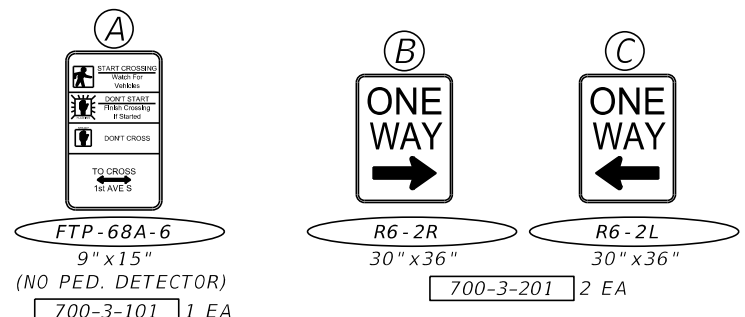
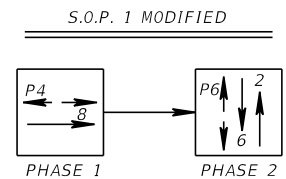
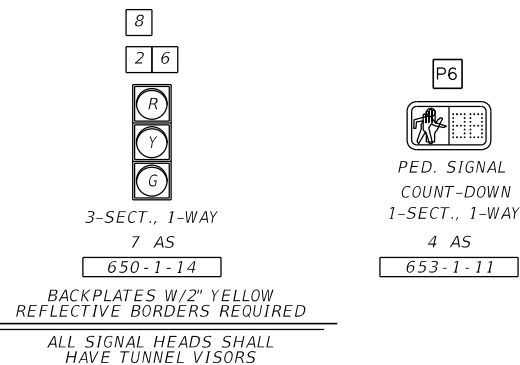
653-1-60 2 AS

STATION 15

REVISIONS				LOCHNER 4550 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607 CERTIFICATE OF AUTHORIZATION NO. 894 ROB R. SWANN, P.E. NO. 59517	 CENTRAL AVE. BRT	<b>SIGNALIZATION PLAN</b> 1st AVE. N. @ 58th St. N.	SHEET NO. T-16
DATE	DESCRIPTION	DATE	DESCRIPTION				







**CONTROLLER OPERATION**

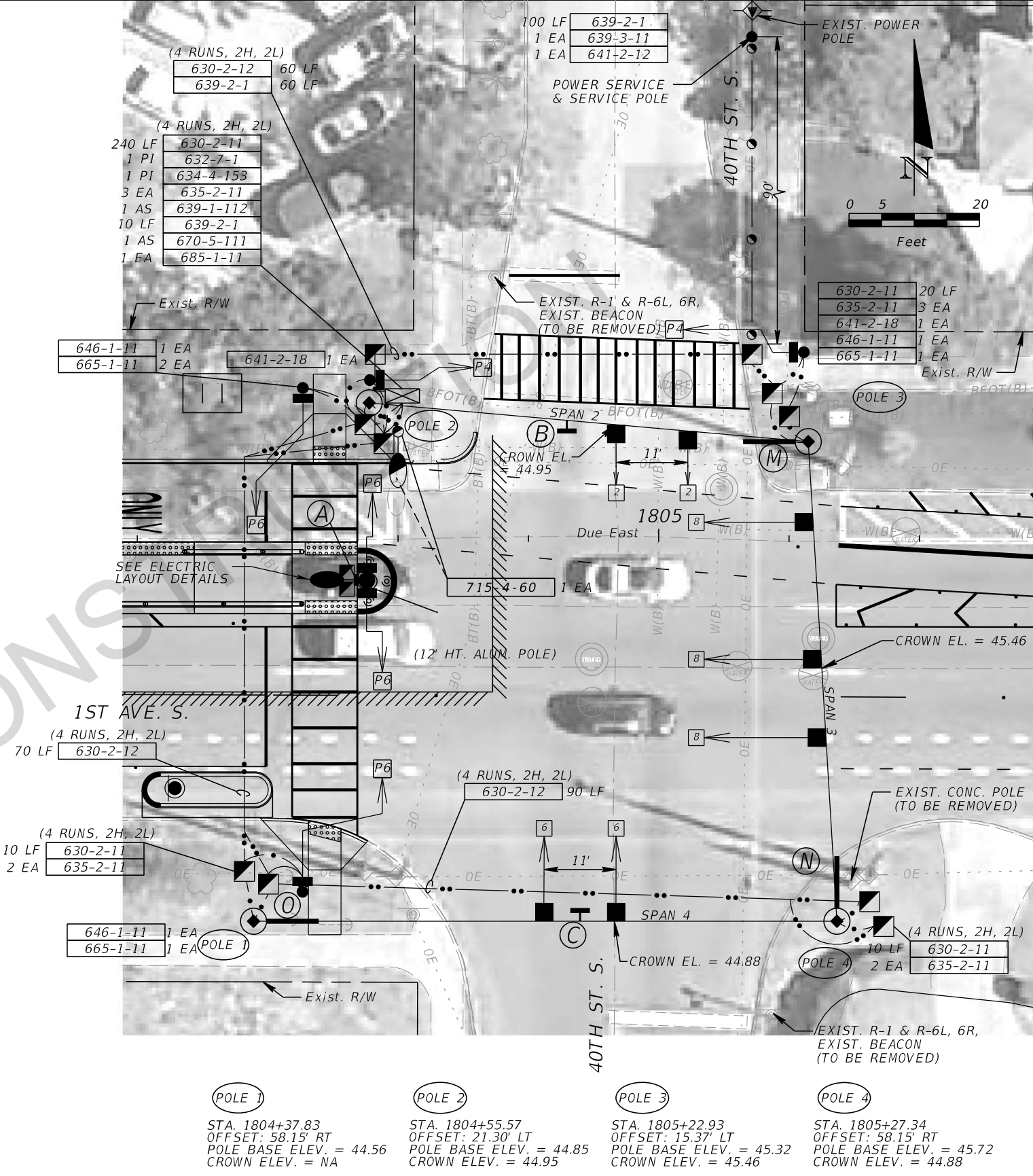
- THE MAIN STREET IS 1st AVENUE S.; MOVEMENTS 8, MINOR STREET IS 40th STREET S.; MOVEMENT 2 AND 6. FLASHING OPERATION SHALL BE RED ON MOVEMENT 8 AND YELLOW ON 2 AND 6.
- CONTROLLER SHALL BE CAPABLE OF S.O.P. 1 OPERATION.

- TRAFFIC CONTROL GENERAL NOTES:**
- TRAFFIC CONTROL SHALL BE PERFORMED IN ACCORDANCE TO WITH STANDARD INDEXES 102-600, 102-611, 102-612, 102-613, 102-615, 102-616, 102-660 AND 706-001.
  - WHENEVER CONSTRUCTION EQUIPMENT IS BEING DRIVEN OR TRANSPORTED ON THE OPEN TRAVEL LANES, THE CONTRACTOR SHALL UTILIZE FDOT STANDARDS INDEX NO. 102-613.
  - A LANE CLOSURE WILL BE REQUIRED WHENEVER A BOOM ARM OR BUCKET CROSSES A TRAVEL LANE, INDEX SERIES 102-600.
  - PAY ITEM 102-1 LUMP SUM INCLUDES ALL TRAFFIC CONTROL ITEMS TO SAFELY MAINTAIN TRAFFIC.

\* ALL EXISTING GREEN TIMES TO REMAIN FROM EXISTING CABINET

CONTROLLER TIMINGS								
TIMING FUNCTION								
MOVEMENT NUMBER	1	2	3	4	5	6	7	8
MINIMUM GREEN	-	-	-	-	-	-	-	-
EXTENSION	-	-	-	-	-	-	-	-
MAXIMUM GREEN 1	-	-	-	-	-	-	-	-
MAXIMUM GREEN 2	-	-	-	-	-	-	-	-
YELLOW CLEARANCE	-	3.3	-	4.0	-	3.3	-	-
ALL RED	-	2.7	-	2.2	-	2.7	-	-
PEDESTRIAN WALK	-	-	-	7	-	7	-	-
PED. CLEARANCE	-	-	-	12	-	17	-	-
RECALL	-	-	-	YES	-	YES	-	-

1st AVE. S. POSTED SPEED 40 MPH,  
40th ST. S. POSTED SPEED 30 MPH



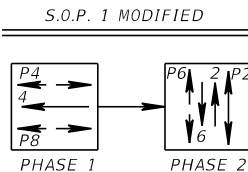
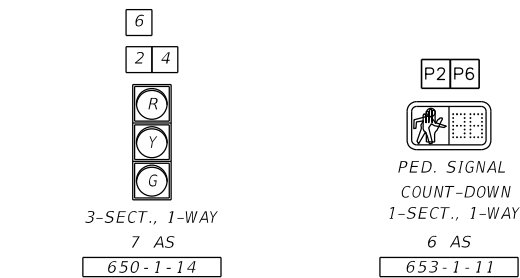
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

**LOCHNER**  
4550 W. CYPRESS STREET, SUITE 800  
TAMPA, FLORIDA 33607  
CERTIFICATE OF AUTHORIZATION NO. 894  
ROB R. SWANN, P.E. NO. 59517



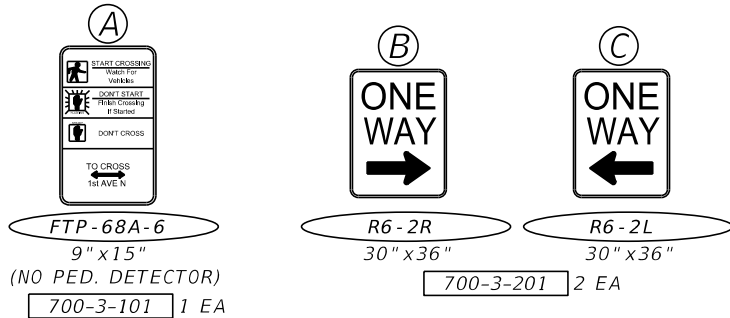
**SIGNALIZATION PLAN**  
1st Ave. S. @ 40th St. S.

SHEET NO.  
T-18



BACKPLATES W/2" YELLOW REFLECTIVE BORDERS REQUIRED

ALL SIGNAL HEADS SHALL HAVE TUNNEL VISORS



**CONTROLLER OPERATION**

- THE MAIN STREET IS 1st AVENUE N.; MOVEMENTS 4, MINOR STREET IS 40th STREET N.; MOVEMENT 2 AND 6. FLASHING OPERATION SHALL BE RED ON MOVEMENT 4 AND YELLOW ON 2 AND 6.
- CONTROLLER SHALL BE CAPABLE OF S.O.P. 1 OPERATION.

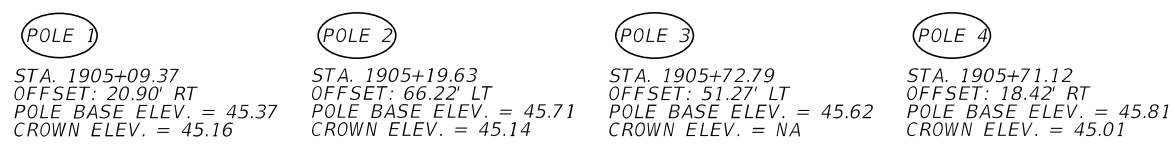
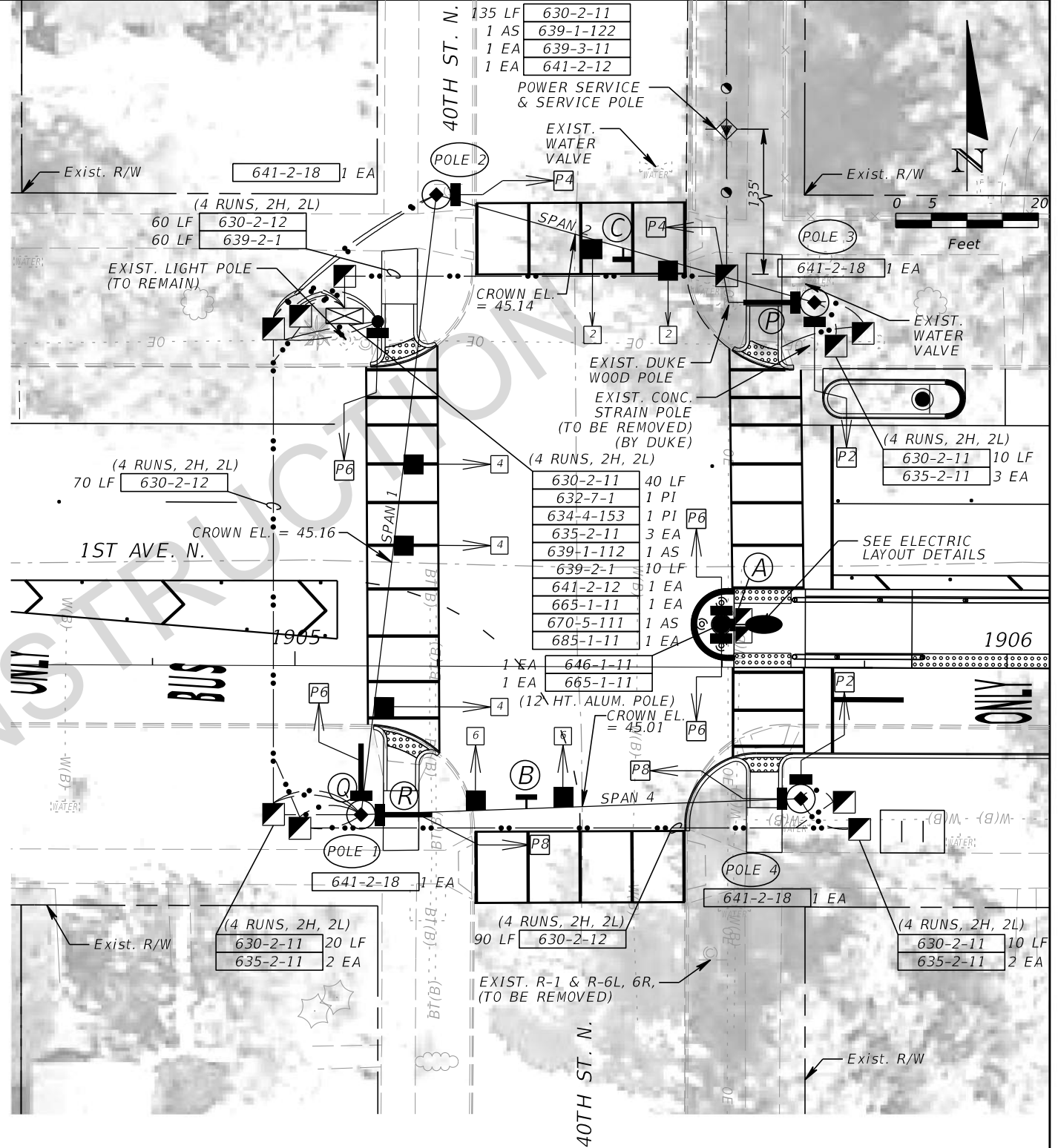
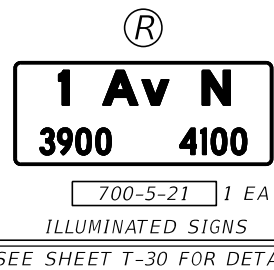
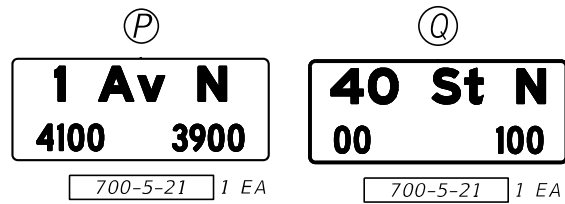
**TRAFFIC CONTROL GENERAL NOTES:**

- TRAFFIC CONTROL SHALL BE PERFORMED IN ACCORDANCE TO WITH STANDARD INDEXES 102-600, 102-611, 102-612, 102-613, 102-615, 102-616, 102-660 AND 706-001.
- WHENEVER CONSTRUCTION EQUIPMENT IS BEING DRIVEN OR TRANSPORTED ON THE OPEN TRAVEL LANES, THE CONTRACTOR SHALL UTILIZE FDOT STANDARDS INDEX NO. 102-613.
- A LANE CLOSURE WILL BE REQUIRED WHENEVER A BOOM ARM OR BUCKET CROSSES A TRAVEL LANE, INDEX SERIES 102-600.
- PAY ITEM 102-1 LUMP SUM INCLUDES ALL TRAFFIC CONTROL ITEMS TO SAFELY MAINTAIN TRAFFIC.

\* ALL EXISTING GREEN TIMES TO REMAIN FROM EXISTING CABINET

CONTROLLER TIMINGS								
TIMING FUNCTION								
MOVEMENT NUMBER	1	2	3	4	5	6	7	8
MINIMUM GREEN	-	-	-	-	-	-	-	-
EXTENSION	-	-	-	-	-	-	-	-
MAXIMUM GREEN 1	-	-	-	-	-	-	-	-
MAXIMUM GREEN 2	-	-	-	-	-	-	-	-
YELLOW CLEARANCE	-	3.3	-	4.0	3.3	3.3	-	-
ALL RED	-	2.7	-	2.2	2.2	2.7	-	-
PEDESTRIAN WALK	-	7	-	7	-	7	-	7
PED. CLEARANCE	-	13	-	8	-	13	-	8
RECALL	-	YES	-	YES	-	YES	-	YES

1st AVE. N. POSTED SPEED 40 MPH,  
40th ST. N. POSTED SPEED 25 MPH



REMOVAL ITEMS:  
641-2-80 4 EA

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

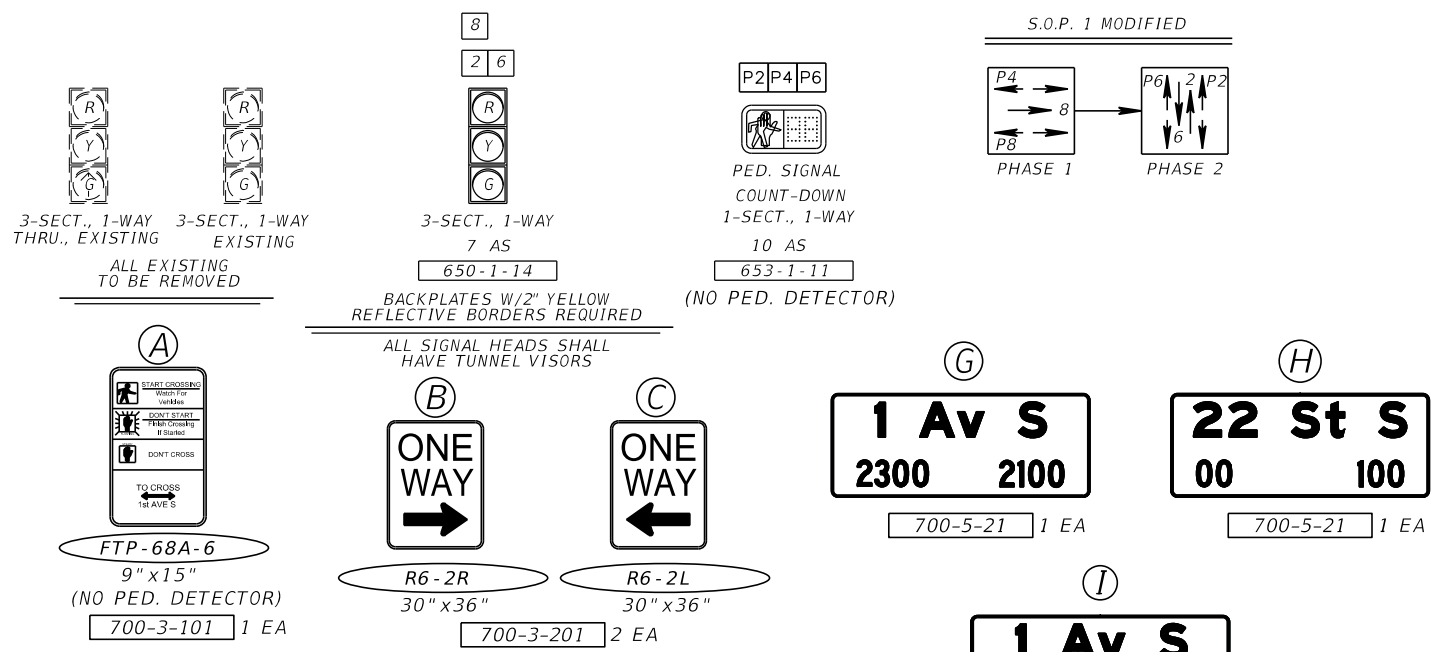
**LOCHNER**  
4550 W. CYPRESS STREET, SUITE 800  
TAMPA, FLORIDA 33607  
CERTIFICATE OF AUTHORIZATION NO. 894  
ROB R. SWANN, P.E. NO. 59517



**SIGNALIZATION PLAN**  
1st AVE. N. @ 40th St. N.

SHEET NO.  
T-19

STATION 19



**CONTROLLER OPERATION**

- THE MAIN STREET IS 1st AVENUE N.; MOVEMENTS 8, MINOR STREET IS 22nd STREET N.; MOVEMENT 2 AND 6. FLASHING OPERATION SHALL BE YELLOW ON MOVEMENTS 2 AND 6 AND RED ON MOVEMENTS 8.
- CONTROLLER SHALL BE CAPABLE OF S.O.P. 10 OPERATION.

**CONTRACTOR NOTES:**

- CONTRACTOR TO UTILIZE EXISTING CONDUITS IN CONTROLLER TO CONNECT NEW AND EXISTING CONDUIT/WIRING AS NEEDED.
- REMOVAL OF EXISTING PULL BOX SHALL BE INCLUDED WITH THE INSTALLATION OF THE NEW PULL BOX. EXTEND EXISTING CONDUITS WITH NEW PULL BOXES FOR HIGH/LOW OPERATION.

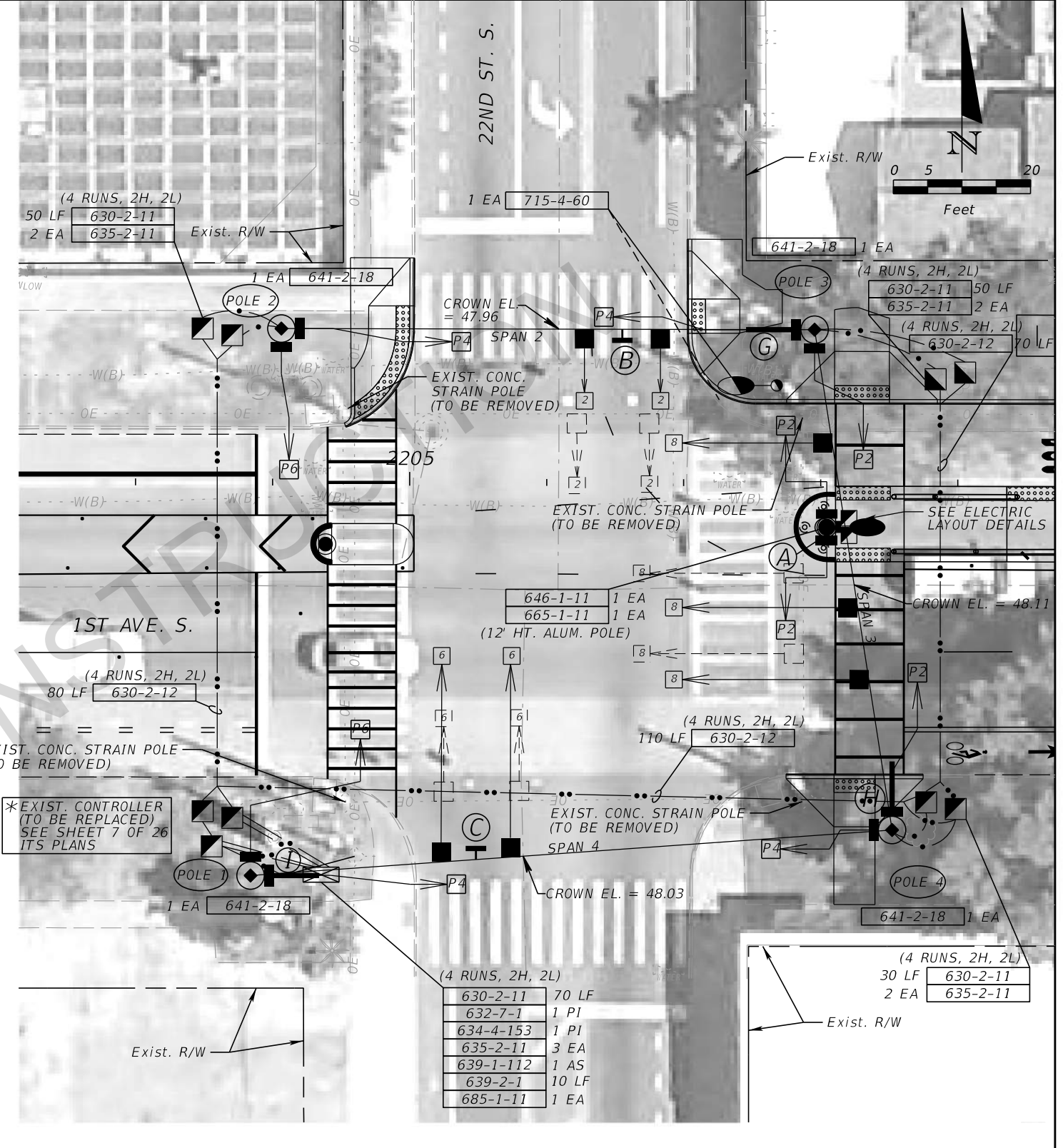
**TRAFFIC CONTROL GENERAL NOTES:**

- TRAFFIC CONTROL SHALL BE PERFORMED IN ACCORDANCE TO WITH STANDARD INDEXES 102-600, 102-611, 102-612, 102-613, 102-615, 102-616, 102-660 AND 706-001.
- WHENEVER CONSTRUCTION EQUIPMENT IS BEING DRIVEN OR TRANSPORTED ON THE OPEN TRAVEL LANES, THE CONTRACTOR SHALL UTILIZE FDOT STANDARDS INDEX NO. 102-613.
- A LANE CLOSURE WILL BE REQUIRED WHENEVER A BOOM ARM OR BUCKET CROSSES A TRAVEL LANE, INDEX SERIES 102-600.
- PAY ITEM 102-1 LUMP SUM INCLUDES ALL TRAFFIC CONTROL ITEMS TO SAFELY MAINTAIN TRAFFIC.

\* ALL EXISTING GREEN TIMES TO REMAIN FROM EXISTING CONTROLLER

CONTROLLER TIMINGS								
TIMING FUNCTION								
MOVEMENT NUMBER	1	2	3	4	5	6	7	8
MINIMUM GREEN	-	-	-	-	-	-	-	-
EXTENSION	-	-	-	-	-	-	-	-
MAXIMUM GREEN 1	-	-	-	-	-	-	-	-
MAXIMUM GREEN 2	-	-	-	-	-	-	-	-
YELLOW CLEARANCE	3.7	3.7	-	-	-	3.7	-	2.0
ALL RED	2.0	2.3	-	-	-	2.3	-	2.0
PEDESTRIAN WALK	-	7	-	7	-	7	-	7
PED. CLEARANCE	-	13	-	8	-	13	-	8
RECALL	-	YES	-	YES	-	YES	-	YES

1st AVE. S. POSTED SPEED 35 MPH,  
22nd ST. S. POSTED SPEED 30 MPH



- POLE 1**  
STA. 2204+76.87  
OFFSET: 56.91' RT  
POLE BASE ELEV. = 48.34  
CROWN ELEV. = NA
- POLE 2**  
STA. 2204+81.24  
OFFSET: 22.89' LT  
POLE BASE ELEV. = 48.25  
CROWN ELEV. = 47.96
- POLE 3**  
STA. 2205+59.07  
OFFSET: 22.84' LT  
POLE BASE ELEV. = 48.00  
CROWN ELEV. = 48.11
- POLE 4**  
STA. 2205+70.48  
OFFSET: 50.14' RT  
POLE BASE ELEV. = 47.86  
CROWN ELEV. = 48.03

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

**LOCHNER**  
4550 W. CYPRESS STREET, SUITE 800  
TAMPA, FLORIDA 33607  
CERTIFICATE OF AUTHORIZATION NO. 894  
ROB R. SWANN, P.E. NO. 59517



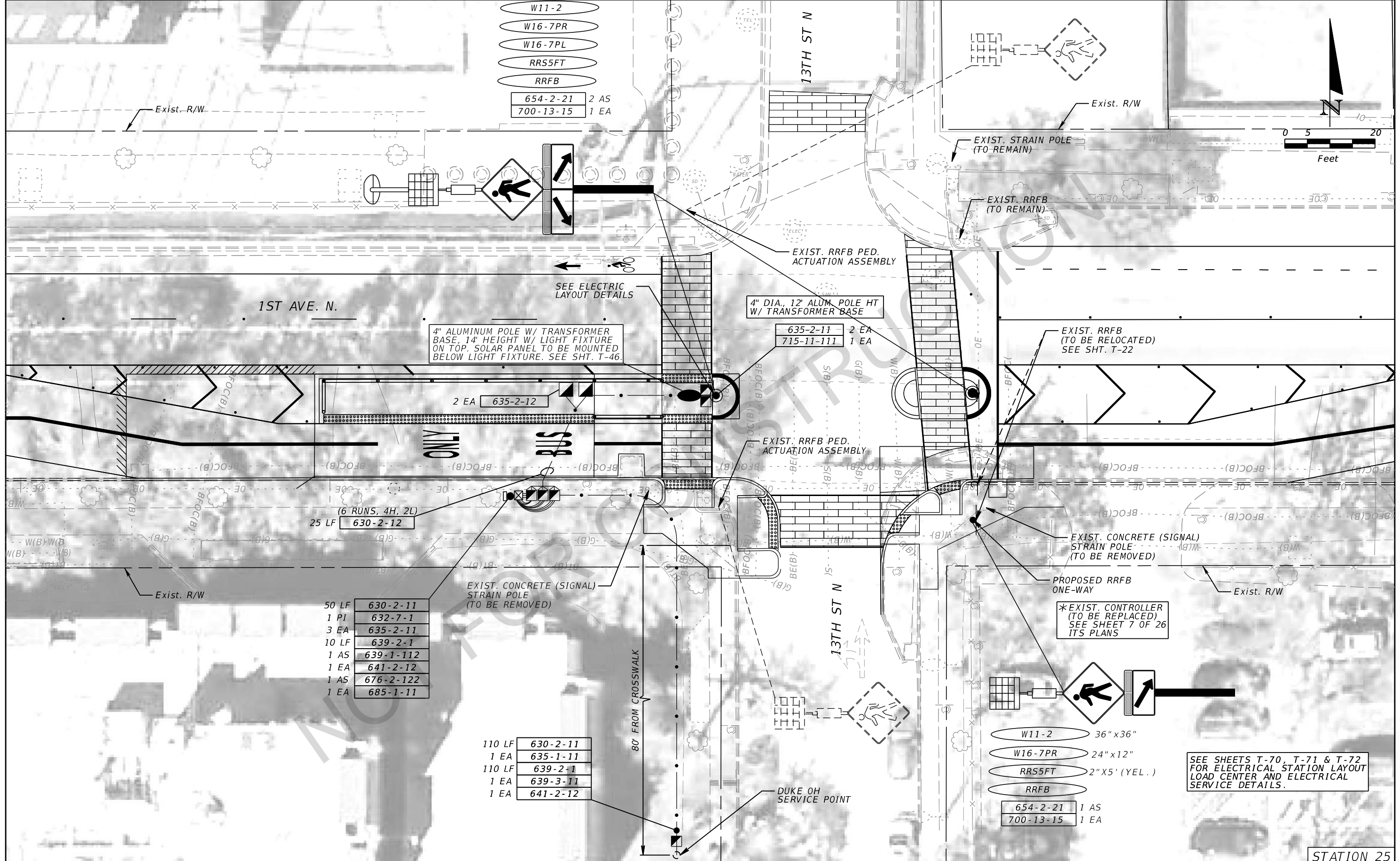
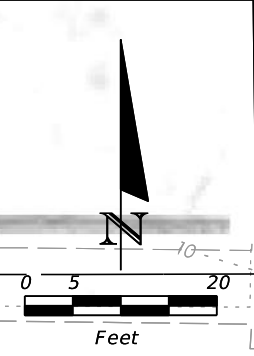
**SIGNALIZATION PLAN**  
1st AVE. S. @ 22ND ST. S.

SHEET NO.  
T-20

STATION 22



- W11-2
- W16-7PR
- W16-7PL
- RRS5FT
- RRFB
- 654-2-21 2 AS
- 700-13-15 1 EA



- 50 LF 630-2-11
- 1 PI 632-7-1
- 3 EA 635-2-11
- 10 LF 639-2-11
- 1 AS 639-1-112
- 1 EA 641-2-12
- 1 AS 676-2-122
- 1 EA 685-1-11

- 110 LF 630-2-11
- 1 EA 635-1-11
- 110 LF 639-2-11
- 1 EA 639-3-11
- 1 EA 641-2-12

\*EXIST. CONTROLLER (TO BE REPLACED) SEE SHEET 7 OF 26 ITS PLANS

SEE SHEETS T-70, T-71 & T-72 FOR ELECTRICAL STATION LOAD CENTER AND ELECTRICAL SERVICE DETAILS.

STATION 25

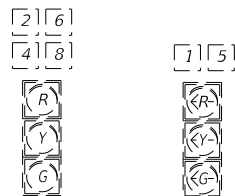
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

**LOCHNER**  
 4550 W. CYPRESS STREET, SUITE 800  
 TAMPA, FLORIDA 33607  
 CERTIFICATE OF AUTHORIZATION NO. 894  
 ROB R. SWANN, P.E. NO. 59517



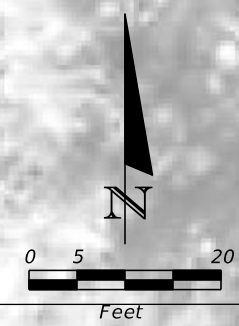
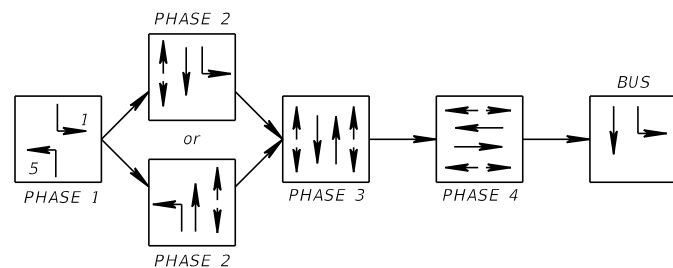
**SIGNALIZATION PLAN**  
 1st Ave. N. @ 13th St. N.

SHEET NO.  
 T-22



3-SECT., 1-WAY EXISTING TO REMAIN      3-SECT., 1-WAY EXISTING

S.O.P. 3 MODIFIED



CONTROLLER OPERATION

- S.O.P. OPERATION TO BE COORDINATED WITH ST. PETERSBURG FOR BUS/TSP TURN PHASE S.O.P.

CONTRACTOR NOTES:

- CONTRACTOR TO UTILIZE EXISTING CONDUITS IN CONTROLLER TO CONNECT NEW AND EXISTING CONDUIT/WIRING AS NEEDED.

TRAFFIC CONTROL GENERAL NOTES:

- TRAFFIC CONTROL SHALL BE PERFORMED IN ACCORDANCE TO WITH STANDARD INDEXES 102-600, 102-611, 102-612, 102-613, 102-615, 102-616, 102-660 AND 706-001.
- WHENEVER CONSTRUCTION EQUIPMENT IS BEING DRIVEN OR TRANSPORTED ON THE OPEN TRAVEL LANES, THE CONTRACTOR SHALL UTILIZE FDOT STANDARDS INDEX NO. 102-613.
- A LANE CLOSURE WILL BE REQUIRED WHENEVER A BOOM ARM OR BUCKET CROSSES A TRAVEL LANE, INDEX SERIES 102-600.
- PAY ITEM 102-1 LUMP SUM INCLUDES ALL TRAFFIC CONTROL ITEMS TO SAFELY MAINTAIN TRAFFIC.



NOT FOR CONSTRUCTION

REVISIONS				<b>LOCHNER</b> 4550 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607 CERTIFICATE OF AUTHORIZATION NO. 894 ROB R. SWANN, P.E. NO. 59517	  <b>CENTRAL AVE. BRT</b>	<b>SIGNALIZATION PLAN</b>  6TH AVE. S. & 4TH ST. S.	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				T-23

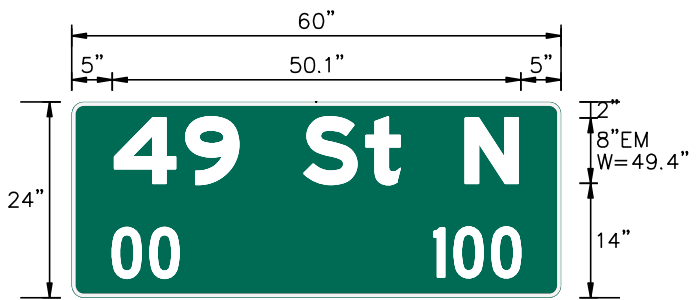








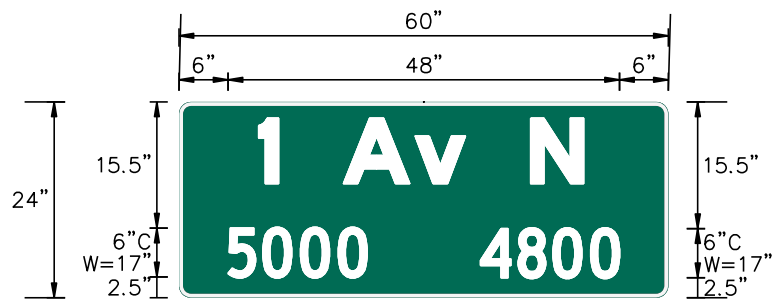
SIGN NAME	D	QTY	SIGN NUMBER	STATION(S)
PANEL	BORDER			none
WIDTH	5'-0"	WIDTH	0.45"	
HEIGHT	2'-0"	RADII	1.45"	
LEGEND	White	COLOR	White	
COLOR	Green			
SYMBOL(S)	ANGLE	X	Y	WID
				HT
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Land	COLUMN SIZE	AVERAGE LENGTH



NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE

COPY	4	9			S	t			N		L								
SPACE	5.3	14	20.5	24.5	28.5	36.1	40.2	44.2	48.2		49.4								
COPY	0	0			L														
SPACE	5	9.6			8.2														
COPY	1	0	0		L														
SPACE	44.4	46.9	51.5		10.6														
COPY																			
SPACE																			
COPY																			
SPACE																			
COPY																			
SPACE																			

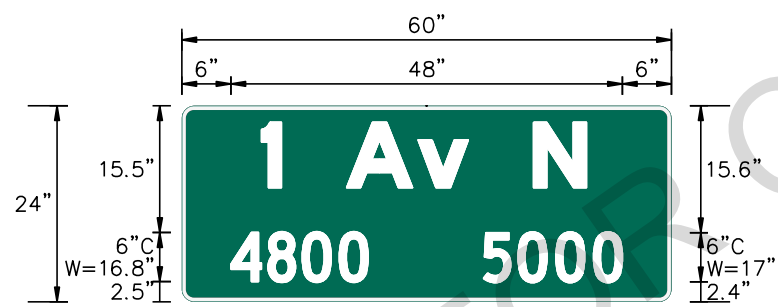
SIGN NAME	E	QTY	SIGN NUMBER	STATION(S)
PANEL	BORDER			none
WIDTH	5'-0"	WIDTH	0.45"	
HEIGHT	2'-0"	RADII	1.45"	
LEGEND	White	COLOR	White	
COLOR	Green			
SYMBOL(S)	ANGLE	X	Y	WID
				HT
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Land	COLUMN SIZE	AVERAGE LENGTH



NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE

COPY	1				A	v			N		L								
SPACE	9.8	12.2	16.2	20.2	29	35.1	39.1	43.1		39.8									
COPY	5	0	0		L														
SPACE	6	10.3	14.9		17														
COPY	4	8	0		L														
SPACE	37	41.6	45.8		17														
COPY																			
SPACE																			
COPY																			
SPACE																			
COPY																			
SPACE																			

SIGN NAME	F	QTY	SIGN NUMBER	STATION(S)
PANEL	BORDER			none
WIDTH	5'-0"	WIDTH	0.45"	
HEIGHT	2'-0"	RADII	1.45"	
LEGEND	White	COLOR	White	
COLOR	Green			
SYMBOL(S)	ANGLE	X	Y	WID
				HT
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Land	COLUMN SIZE	AVERAGE LENGTH



NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE

COPY	1				A	v			N		L								
SPACE	9.8	12.2	16.2	20.2	29	35.1	39.1	43.1		39.8									
COPY	4	8	0		L														
SPACE	6	10.6	14.8		16.8														
COPY	5	0	0		L														
SPACE	37	41.2	45.8		17														
COPY																			
SPACE																			
COPY																			
SPACE																			
COPY																			
SPACE																			

SIGN NAME		QTY	SIGN NUMBER	STATION(S)
PANEL	BORDER			
WIDTH	WIDTH			
HEIGHT	RADII			
LEGEND	COLOR			
COLOR				
SYMBOL(S)	ANGLE	X	Y	WID
				HT
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Land	COLUMN SIZE	AVERAGE LENGTH

NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE

COPY																			
SPACE																			
COPY																			
SPACE																			
COPY																			
SPACE																			
COPY																			
SPACE																			
COPY																			
SPACE																			

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

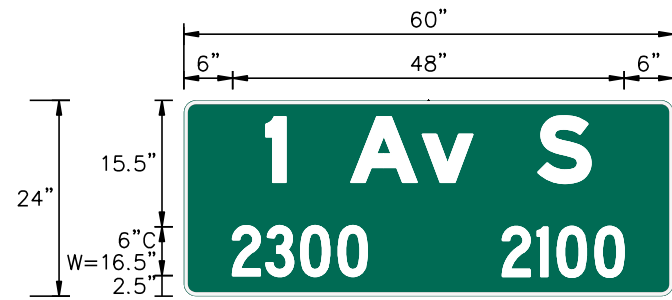
LOCHNER  
 4550 W. CYPRESS STREET, SUITE 800  
 TAMPA, FLORIDA 33607  
 CERTIFICATE OF AUTHORIZATION NO. 894  
 ROB R. SWANN, P.E. NO. 59517



GUIDESIGN WORKSHEET (01)

SHEET NO.  
T-27

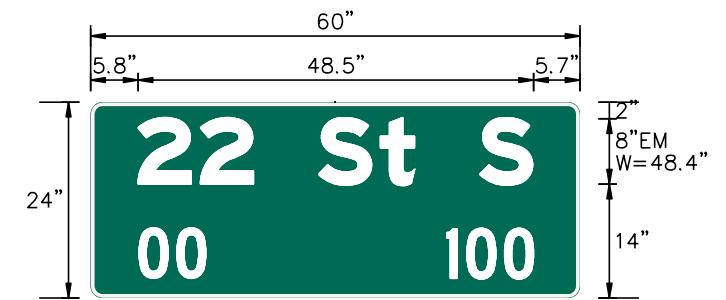
SIGN NAME	g		QTY	SIGN NUMBER	STATION(S)
PANEL	BORDER		none		
WIDTH	5'-0"	WIDTH	0.45"		
HEIGHT	2'-0"	RADII	1.45"		
LEGEND	White	COLOR	White		
COLOR	Green				
SYMBOL(S)	ANGLE	X	Y	WID	HT
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Land	COLUMN SIZE	AVERAGE LENGTH	



NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE
-----------------------	-----------------	-------------------	------	---------

COPY	1	A	v	S	L															
SPACE	10.1	12.5	16.5	20.5	29.3	35.4	39.4	43.4	39.8											
COPY	2	3	0	0	L															
SPACE	6	10.1	14.3	18.9	16.5															
COPY	2	1	0	0	L															
SPACE	39.1	43.3	45.8	50.4	14.9															
COPY																				
SPACE																				
COPY																				
SPACE																				
COPY																				
SPACE																				

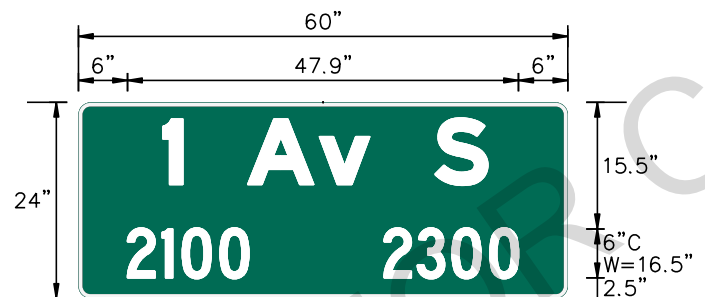
SIGN NAME	H		QTY	SIGN NUMBER	STATION(S)
PANEL	BORDER		none		
WIDTH	5'-0"	WIDTH	0.45"		
HEIGHT	2'-0"	RADII	1.45"		
LEGEND	White	COLOR	White		
COLOR	Green				
SYMBOL(S)	ANGLE	X	Y	WID	HT
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Land	COLUMN SIZE	AVERAGE LENGTH	



NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE
-----------------------	-----------------	-------------------	------	---------

COPY	2	2	S	t	S	L										
SPACE	5.8	13.5	19.9	23.9	27.9	35.5	39.7	43.7	47.7	48.4						
COPY	0	0	L													
SPACE	6	10.6	8.2													
COPY	1	0	0	L												
SPACE	43.7	46.1	50.8	10.6												
COPY																
SPACE																
COPY																
SPACE																
COPY																
SPACE																

SIGN NAME	i		QTY	SIGN NUMBER	STATION(S)
PANEL	BORDER		none		
WIDTH	5'-0"	WIDTH	0.45"		
HEIGHT	2'-0"	RADII	1.45"		
LEGEND	White	COLOR	White		
COLOR	Green				
SYMBOL(S)	ANGLE	X	Y	WID	HT
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Land	COLUMN SIZE	AVERAGE LENGTH	



NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE
-----------------------	-----------------	-------------------	------	---------

COPY	1	A	v	S	L										
SPACE	10.4	12.8	16.8	20.8	29.5	35.7	39.7	43.7	39.8						
COPY	2	1	0	0	L										
SPACE	6	10.3	12.7	17.4	14.9										
COPY	2	3	0	0	L										
SPACE	37.5	41.5	45.8	50.4	16.5										
COPY															
SPACE															
COPY															
SPACE															
COPY															
SPACE															

SIGN NAME			QTY	SIGN NUMBER	STATION(S)
PANEL	BORDER				
WIDTH	WIDTH				
HEIGHT	RADII				
LEGEND	COLOR				
COLOR					
SYMBOL(S)	ANGLE	X	Y	WID	HT
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Land	COLUMN SIZE	AVERAGE LENGTH	

NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE
-----------------------	-----------------	-------------------	------	---------

COPY															
SPACE															
COPY															
SPACE															
COPY															
SPACE															
COPY															
SPACE															
COPY															
SPACE															

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LOCHNER  
 4550 W. CYPRESS STREET, SUITE 800  
 TAMPA, FLORIDA 33607  
 CERTIFICATE OF AUTHORIZATION NO. 894  
 ROB R. SWANN, P.E. NO. 59517



GUIDESIGN WORKSHEET (02)

SHEET NO.  
T-28











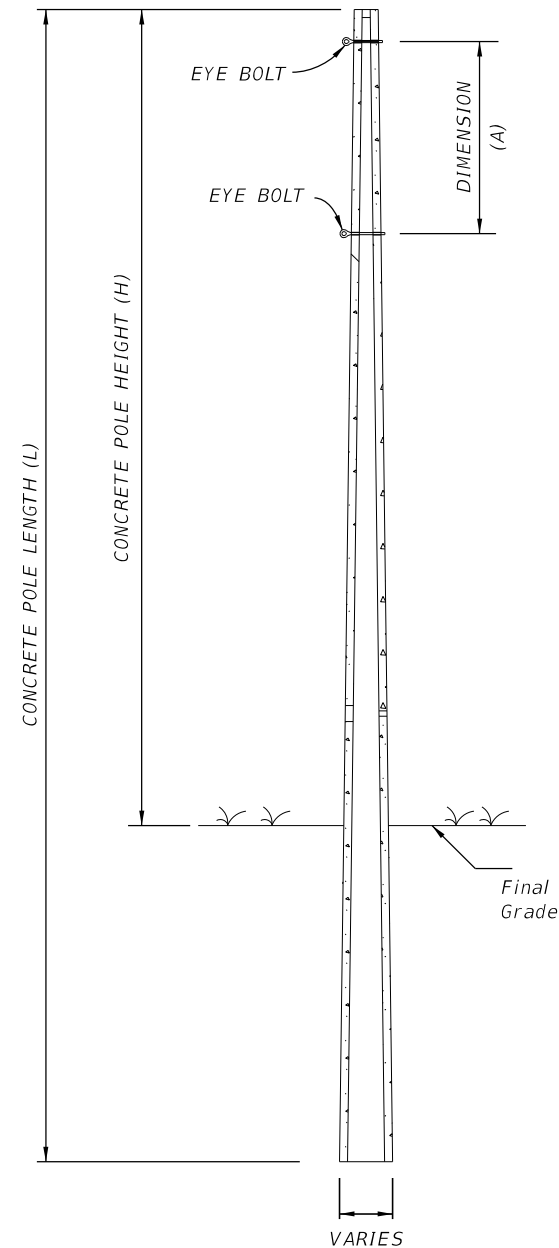








CONCRETE STRAIN POLE SCHEDULE




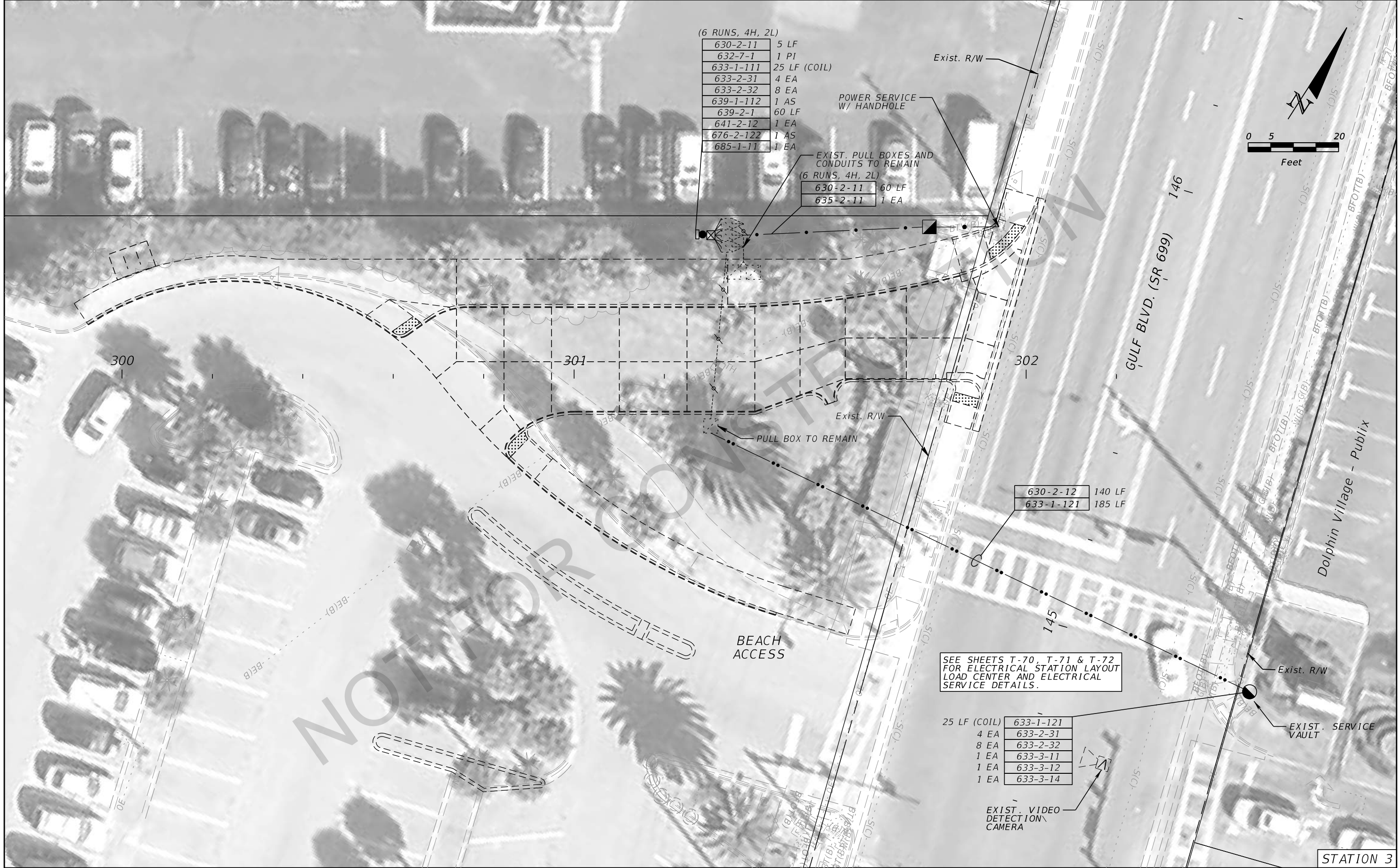
CONCRETE STRAIN POLE DIMENSIONS  
TYPES P-III THROUGH P-VIII

ID NO.	SHEET NO.	POLE LOCATION		FINAL GRADE ELEVATION	CROWN ELEVATION	POLE TYPE	POLE LENGTH (L)	POLE HEIGHT (H)	SHAFT LENGTH (DA)	DIMENSION (A)	CATENARY WIRE DIA. (IN.)	MESSENGER WIRE DIA. (IN.)
		STATION	OFFSET									
1	T-17	1704+66.69	18.63' RT.	34.66'	34.69'	P-VIII	46.34'	31.34'	15'	6.35'	7/16" DIA.	7/16" DIA.
2	T-17	1704+73.18	67.85' LT.	35.74'	36.07'	P-VIII	45.26'	30.26'	15'	6.35'	7/16" DIA.	7/16" DIA.
3	T-17	1705+53.95	72.84' LT.	36.02'	N/A	P-VIII	44.98'	29.98'	15'	6.35'	7/16" DIA.	7/16" DIA.
4	T-17	1705+73.47	18.28' RT.	35.30'	34.65'	P-VIII	45.70'	30.70'	15'	6.35'	7/16" DIA.	7/16" DIA.
1	T-18	1804+37.83	58.15' RT.	44.56'	N/A	P-VIII	44.99'	29.99'	15'	5.50'	7/16" DIA.	7/16" DIA.
2	T-18	1804+55.57	21.30' LT.	44.85'	44.95'	P-VIII	44.70'	29.70'	15'	5.50'	7/16" DIA.	7/16" DIA.
3	T-18	1805+22.93	15.37' LT.	45.32'	45.46'	P-VIII	44.23'	29.23'	15'	5.50'	7/16" DIA.	7/16" DIA.
4	T-18	1805+27.34	58.15' RT.	45.72'	44.88'	P-VIII	43.83'	28.83'	15'	5.50'	7/16" DIA.	7/16" DIA.
1	T-19	1905+09.37	20.90' RT.	45.37'	45.16'	P-VIII	43.78'	28.78'	15'	5.40'	7/16" DIA.	7/16" DIA.
2	T-19	1905+19.63	66.22' LT.	45.71'	45.14'	P-VIII	43.44'	28.44'	15'	5.40'	7/16" DIA.	7/16" DIA.
3	T-19	1905+72.79	51.27' LT.	45.62'	N/A	P-VIII	43.53'	28.53'	15'	5.40'	7/16" DIA.	7/16" DIA.
4	T-19	1905+71.12	18.42' RT.	45.81'	45.01'	P-VIII	43.34'	28.34'	15'	5.40'	7/16" DIA.	7/16" DIA.
1	T-20	2204+76.87	56.91' RT.	48.34'	N/A	P-VIII	43.81'	28.81'	15'	5.45'	7/16" DIA.	7/16" DIA.
2	T-20	2204+81.24	22.89' LT.	48.25'	47.96'	P-VIII	43.90'	28.90'	15'	5.45'	7/16" DIA.	7/16" DIA.
3	T-20	2205+59.07	22.84' LT.	48.00'	48.11'	P-VIII	44.15'	29.15'	15'	5.45'	7/16" DIA.	7/16" DIA.
4	T-20	2205+70.48	50.14' RT.	47.86'	48.03'	P-VIII	44.29'	29.29'	15'	5.45'	7/16" DIA.	7/16" DIA.
1	T-21	2307+21.92	58.62' LT.	48.26'	47.67'	P-VIII	43.80'	28.80'	15'	5.15'	7/16" DIA.	7/16" DIA.
2	T-21	2308+00.07	59.12' LT.	48.08'	N/A	P-VIII	43.98'	28.98'	15'	5.15'	7/16" DIA.	7/16" DIA.
3	T-21	2308+05.78	19.97' RT.	48.27'	48.05'	P-VIII	43.79'	28.79'	15'	5.15'	7/16" DIA.	7/16" DIA.
4	T-21	2307+23.71	23.95' RT.	48.28'	48.32'	P-VIII	43.78'	28.78'	15'	5.15'	7/16" DIA.	7/16" DIA.
1	SEE SHEET T-24 FOR LOCATION			20.20'	20.69'	P-VII	45.19'	31.19'	14'	5.20'	7/16" DIA.	7/16" DIA.
2	SEE SHEET T-24 FOR LOCATION			20.32'	20.69'	P-VII	45.07'	31.07'	14'	5.20'	7/16" DIA.	7/16" DIA.
1	SEE SHEET T-25 FOR LOCATION			43.76'	44.26'	P-VII	45.60'	31.60'	14'	5.60'	7/16" DIA.	7/16" DIA.
2	SEE SHEET T-25 FOR LOCATION			43.66'	44.26'	P-VII	45.70'	31.70'	14'	5.60'	7/16" DIA.	7/16" DIA.
1	SEE SHEET T-26 FOR LOCATION			33.98'	34.58'	P-VII	45.35'	31.35'	14'	5.25'	7/16" DIA.	7/16" DIA.
2	SEE SHEET T-26 FOR LOCATION			33.73'	34.58'	P-VII	45.60'	31.60'	14'	5.25'	7/16" DIA.	7/16" DIA.

SCHEDULE NOTES:

- FOR ADDITIONAL DETAILS NOT SHOWN ON THIS SHEET, REFER TO STANDARD PLANS INDEX 641-010.
- DESIGN WIND SPEED = 140 MPH.
- ASSUMPTIONS AND VALUES BASED ON REPORT OF CORE BORINGS SHEETS PROVIDED BY ARDAMAN AND ASSOCIATES, INC.  
FOUNDATION DESIGN ASSUMPTIONS:  
EFFECTIVE SOIL UNIT WEIGHT = 55.6 PCF  
ANGLE OF INTERNAL FRICTION = 30 DEGREES

REVISIONS				LOCHNER 4550 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607 CERTIFICATE OF AUTHORIZATION NO. 894 CHRISTOPHER P. GILL, P.E. NO. 62540	 CENTRAL AVE. BRT	STRAIN POLE DETAILS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				T-37



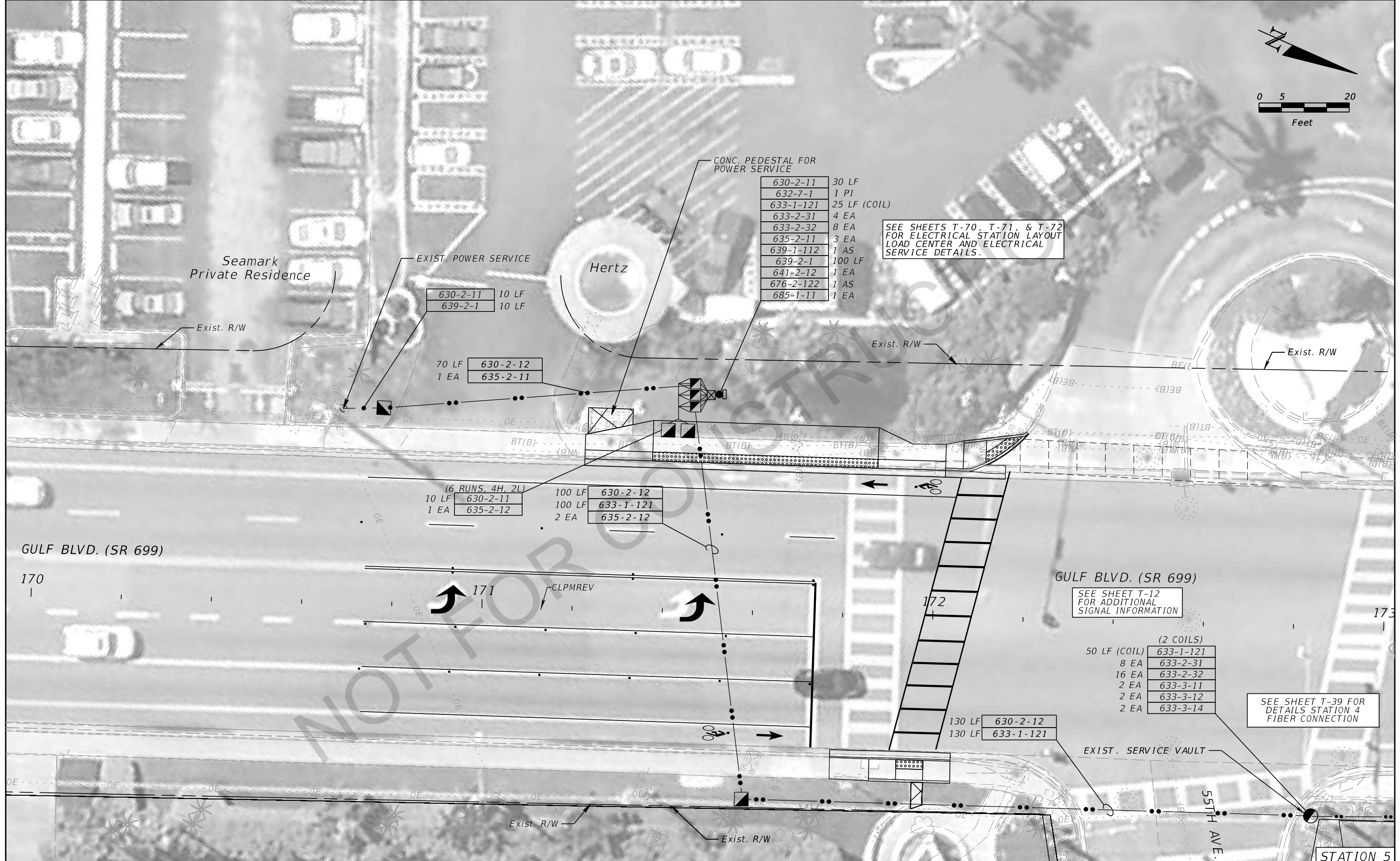
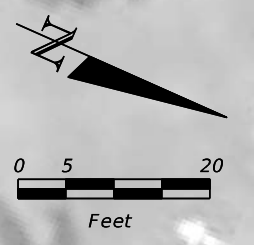
REVISIONS	
DATE	DESCRIPTION

**LOCHNER**  
 4550 W. CYPRESS STREET, SUITE 800  
 TAMPA, FLORIDA 33607  
 CERTIFICATE OF AUTHORIZATION NO. 894  
 ROB R. SWANN, P.E. NO. 59517



**STATION OPERATION**  
 PLAN (01)

SHEET NO.  
 T-38



630-2-11	30 LF
632-7-1	1 PI
633-1-121	25 LF (COIL)
633-2-31	4 EA
633-2-32	8 EA
635-2-11	3 EA
639-1-112	1 AS
639-2-1	100 LF
641-2-12	1 EA
676-2-122	1 AS
685-1-11	1 EA

SEE SHEETS T-70, T-71, & T-72 FOR ELECTRICAL STATION LAYOUT LOAD CENTER AND ELECTRICAL SERVICE DETAILS.

630-2-11	10 LF
639-2-1	10 LF

70 LF	630-2-12
1 EA	635-2-11

(6 RUNS, 4H, 2L)	100 LF	630-2-12	
10 LF	630-2-11	100 LF	633-1-121
1 EA	635-2-12	2 EA	635-2-12

SEE SHEET T-12 FOR ADDITIONAL SIGNAL INFORMATION

(2 COILS)	50 LF (COIL)	633-1-121
8 EA	633-2-31	
16 EA	633-2-32	
2 EA	633-3-11	
2 EA	633-3-12	
2 EA	633-3-14	

SEE SHEET T-39 FOR DETAILS STATION 4 FIBER CONNECTION

130 LF	630-2-12
130 LF	633-1-121

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

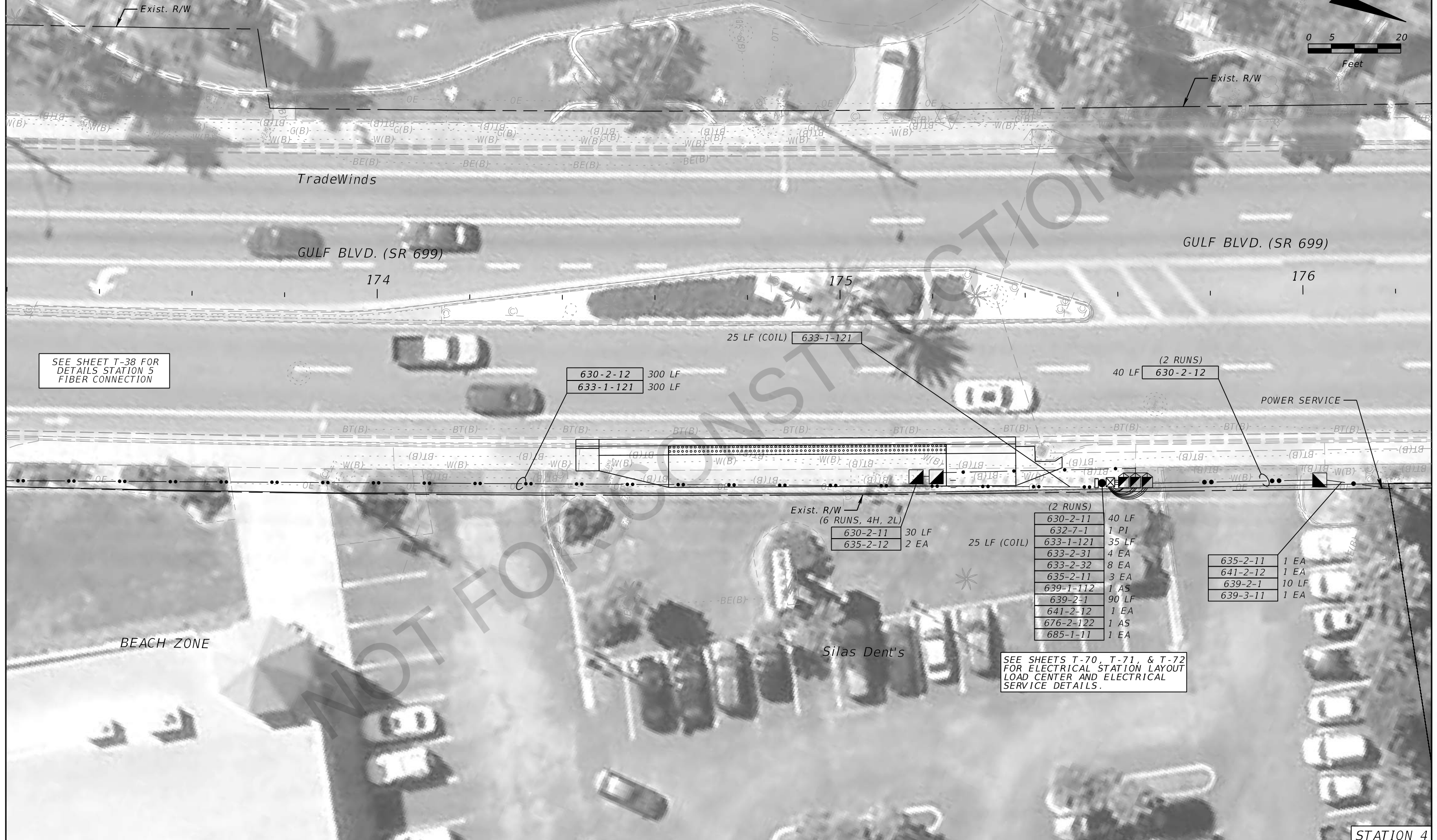
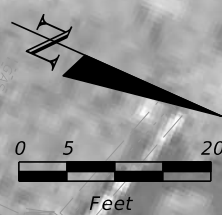
**LOCHNER**  
 4550 W. CYPRESS STREET, SUITE 800  
 TAMPA, FLORIDA 33607  
 CERTIFICATE OF AUTHORIZATION NO. 894  
 ROB R. SWANN, P.E. NO. 59517



**STATION OPERATION**  
**PLAN (02)**

SHEET NO.  
**T-39**

TradeWinds  
Beach Resort



SEE SHEET T-38 FOR  
DETAILS STATION 5  
FIBER CONNECTION

630-2-12 300 LF  
633-1-121 300 LF

40 LF (2 RUNS)  
630-2-12

25 LF (COIL) 633-1-121

Exist. R/W  
(6 RUNS, 4H, 2L)  
630-2-11 30 LF  
635-2-12 2 EA

25 LF (COIL)  
(2 RUNS)  
630-2-11 40 LF  
632-7-1 1 PI  
633-1-121 35 LF  
633-2-31 4 EA  
633-2-32 8 EA  
635-2-11 3 EA  
639-1-112 1 AS  
639-2-1 90 LF  
641-2-12 1 EA  
676-2-122 1 AS  
685-1-11 1 EA

635-2-11 1 EA  
641-2-12 1 EA  
639-2-1 10 LF  
639-3-11 1 EA

SEE SHEETS T-70, T-71, & T-72  
FOR ELECTRICAL STATION  
LOAD CENTER AND ELECTRICAL  
SERVICE DETAILS.

STATION 4

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

**LOCHNER**  
4550 W. CYPRESS STREET, SUITE 800  
TAMPA, FLORIDA 33607  
CERTIFICATE OF AUTHORIZATION NO. 894  
ROB R. SWANN, P.E. NO. 59517



**STATION OPERATION**  
*PLAN (03)*

SHEET  
NO.  
T-40



SEE SHEETS T-70, T-71, & T-72 FOR ELECTRICAL STATION LAYOUT, LOAD CENTER AND ELECTRICAL SERVICE DETAILS.

630-2-11	20 LF
632-7-1	1 PI
633-1-121	25 LF
633-2-31	4 EA
633-2-32	8 EA
635-2-11	3 EA
639-1-112	1 AS
639-2-1	20 LF
641-2-12	1 EA
676-2-122	1 AS
685-1-11	1 EA

25 LF (COIL)

Commercial (Vacant)

CONC. PEDESTAL FOR POWER SERVICE

FIRE HYDRANT

(6 RUNS, 4H, 2L)	
20 LF	630-2-11
2 EA	635-2-12

DUKE CONC. POLE LIGHTING CIRCUIT AT TOP FOR POWER SERVICE

25 LF (COIL)	633-1-121
--------------	-----------

GULF BLVD. (SR 699)

219

220

221

EXIST. SERVICE VAULT

630-2-12	120 LF
633-1-121	120 LF
635-2-12	2 EA

633-1-121	25 LF
630-2-12	60 LF
633-1-121	60 LF

633-1-121	25 LF (COIL)
633-2-31	4 EA
633-2-32	8 EA
633-3-11	1 EA
633-3-12	1 EA
633-3-14	1 EA
633-3-31	1 EA

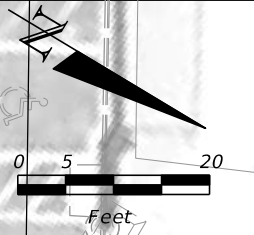
Exist. R/W

EXIST. CONT

Sundeck Plaza

Gulf Coast Auto Body & Service

73RD AVE.



STATION 7

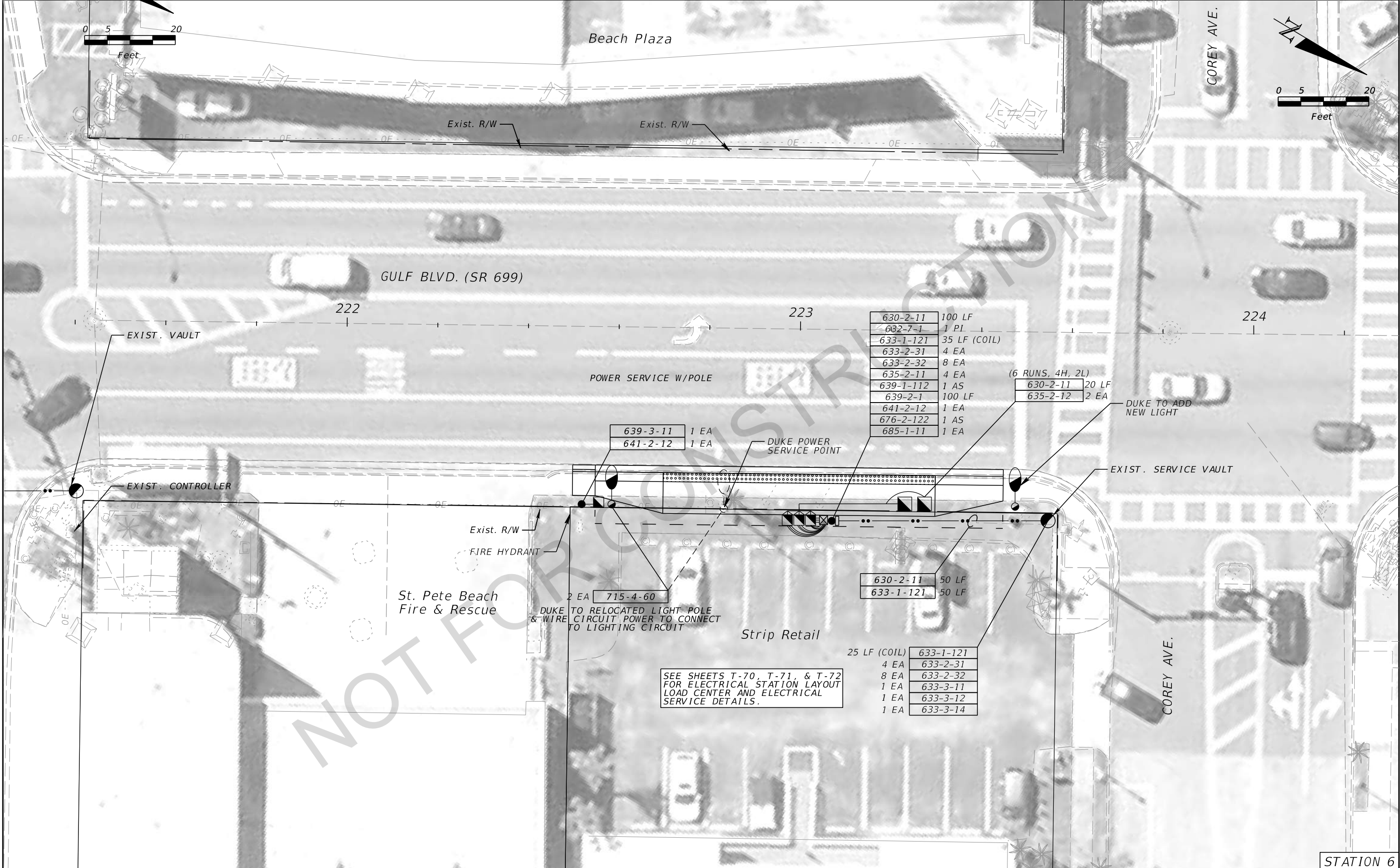
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

**LOCHNER**  
 4550 W. CYPRESS STREET, SUITE 800  
 TAMPA, FLORIDA 33607  
 CERTIFICATE OF AUTHORIZATION NO. 894  
 THOMAS W. STONER, P.E. NO. 40251



**STATION OPERATION**  
**PLAN (04)**

SHEET NO.  
**T-41**



630-2-11	100 LF
632-7-1	1 PI
633-1-121	35 LF (COIL)
633-2-31	4 EA
633-2-32	8 EA
635-2-11	4 EA
639-1-112	1 AS
639-2-1	100 LF
641-2-12	1 EA
676-2-122	1 AS
685-1-11	1 EA

(6 RUNS, 4H, 2L)	630-2-11	20 LF
	635-2-12	2 EA

639-3-11	1 EA
641-2-12	1 EA

630-2-11	50 LF
633-1-121	50 LF

25 LF (COIL)	633-1-121
4 EA	633-2-31
8 EA	633-2-32
1 EA	633-3-11
1 EA	633-3-12
1 EA	633-3-14

SEE SHEETS T-70, T-71, & T-72 FOR ELECTRICAL STATION LAYOUT LOAD CENTER AND ELECTRICAL SERVICE DETAILS.

DUKE TO RELOCATED LIGHT POLE & WIRE CIRCUIT POWER TO CONNECT TO LIGHTING CIRCUIT

DUKE TO ADD NEW LIGHT

STATION 6

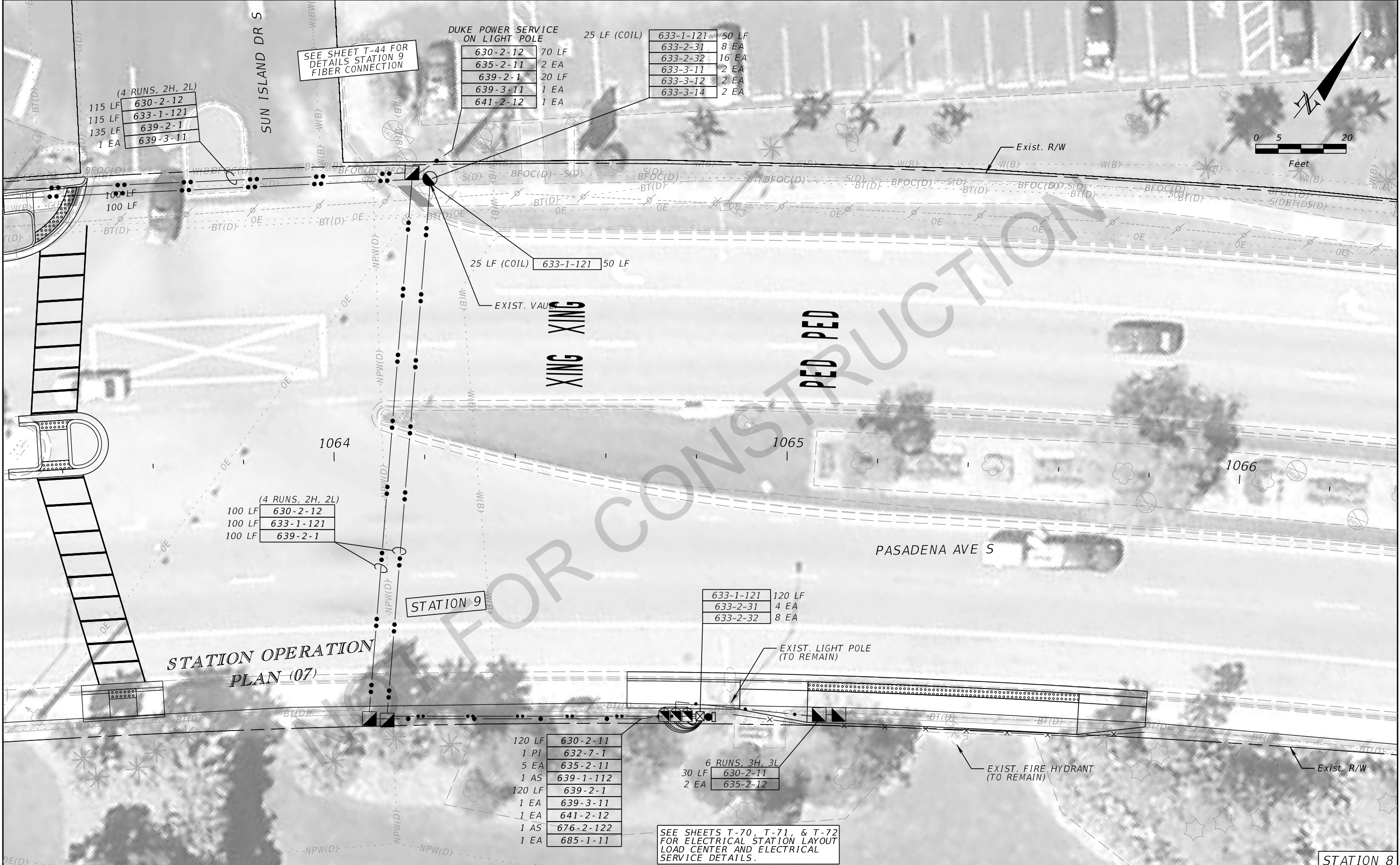
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

**LOCHNER**  
 4550 W. CYPRESS STREET, SUITE 800  
 TAMPA, FLORIDA 33607  
 CERTIFICATE OF AUTHORIZATION NO. 894  
 ROB R. SWANN, P.E. NO. 59517



**STATION OPERATION**  
**PLAN (05)**

SHEET NO.  
**T-42**



(4 RUNS, 2H, 2L)

115 LF	630-2-12
115 LF	633-1-121
135 LF	639-2-1
1 EA	639-3-11

DUKE POWER SERVICE ON LIGHT POLE

25 LF (COIL)	633-1-121	50 LF	
630-2-12	70 LF	633-2-31	8 EA
635-2-11	2 EA	633-2-32	16 EA
639-2-1	20 LF	633-3-11	2 EA
639-3-11	1 EA	633-3-12	2 EA
641-2-12	1 EA	633-3-14	2 EA

(4 RUNS, 2H, 2L)

100 LF	630-2-12
100 LF	633-1-121
100 LF	639-2-1

120 LF	630-2-11
1 PI	632-7-1
5 EA	635-2-11
1 AS	639-1-112
120 LF	639-2-1
1 EA	639-3-11
1 EA	641-2-12
1 AS	676-2-122
1 EA	685-1-11

633-1-121	120 LF
633-2-31	4 EA
633-2-32	8 EA

6 RUNS, 3H, 3L

30 LF	630-2-11
2 EA	635-2-12

SEE SHEETS T-70, T-71, & T-72 FOR ELECTRICAL STATION LAYOUT LOAD CENTER AND ELECTRICAL SERVICE DETAILS.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

**LOCHNER**  
 4550 W. CYPRESS STREET, SUITE 800  
 TAMPA, FLORIDA 33607  
 CERTIFICATE OF AUTHORIZATION NO. 894  
 ROB R. SWANN, P.E. NO. 59517



**STATION OPERATION PLAN (06)**

SHEET NO.  
T-43



SEE SHEETS T-70, T-71, & T-72 FOR ELECTRICAL STATION 8 LOAD CENTER AND ELECTRICAL SERVICE DETAILS.

SEE SHEET T-44 FOR DETAILS STATION 8 FIBER CONNECTION

SEE SHEET T-44 FOR DETAILS STATION 9 FIBER CONNECTION

Exist. DUKE GROUND MOUNTED TRANSFORMER

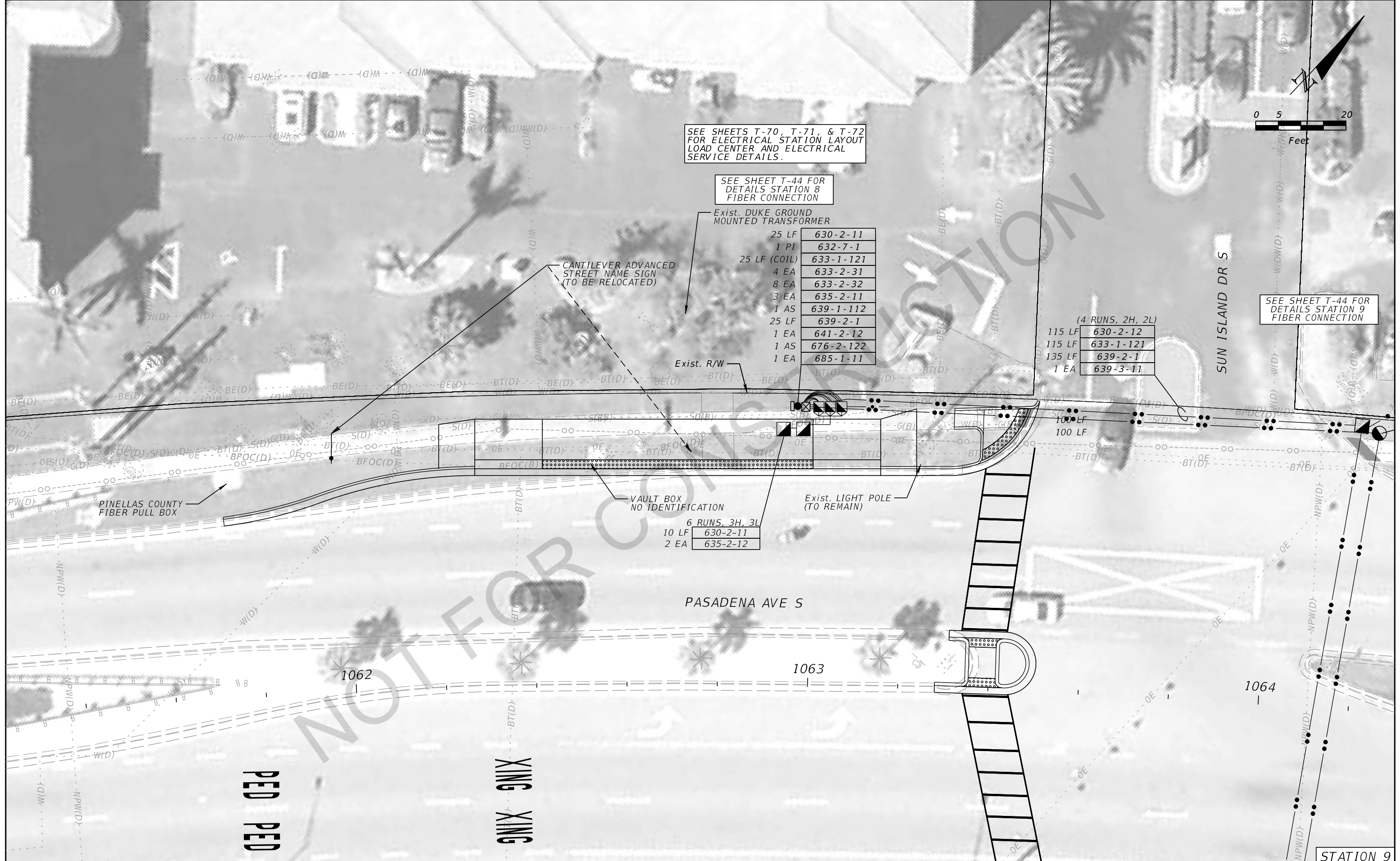
25 LF	630-2-11
1 PI	632-7-1
25 LF (COIL)	633-1-121
4 EA	633-2-31
8 EA	633-2-32
3 EA	635-2-11
1 AS	639-1-112
25 LF	639-2-1
1 EA	641-2-12
1 AS	676-2-122
1 EA	685-1-11

(4 RUNS, 2H, 2L)

115 LF	630-2-12
115 LF	633-1-121
135 LF	639-2-1
1 EA	639-3-11

VAULT BOX NO IDENTIFICATION

6 RUNS, 3H, 3L	
10 LF	630-2-11
2 EA	635-2-12



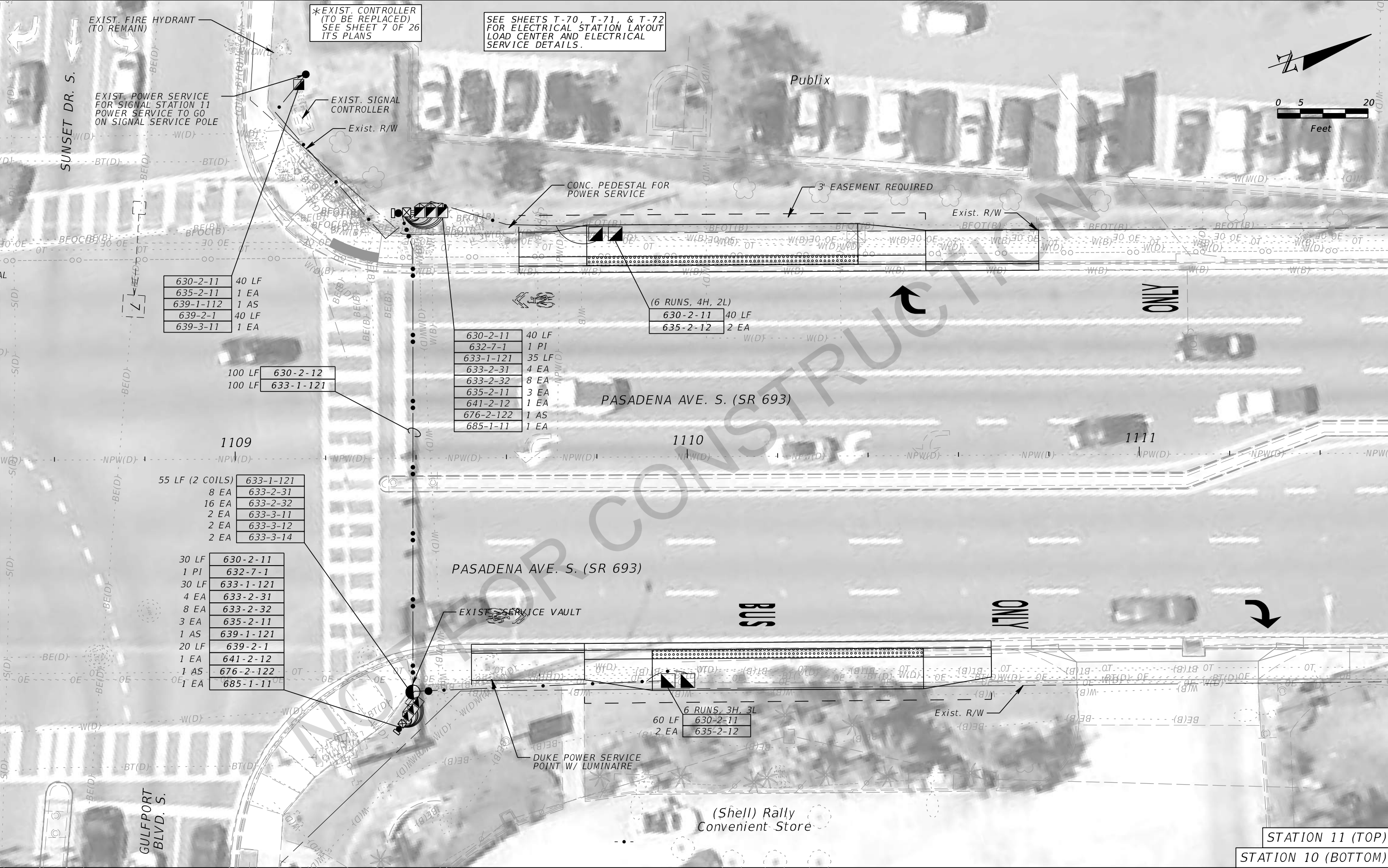
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

**LOCHNER**  
 4550 W. CYPRESS STREET, SUITE 800  
 TAMPA, FLORIDA 33607  
 CERTIFICATE OF AUTHORIZATION NO. 894  
 ROB R. SWANN, P.E. NO. 59517



**STATION OPERATION**  
**PLAN (07)**

SHEET NO.  
**T-44**



REVISIONS	
DATE	DESCRIPTION

**LOCHNER**  
4550 W. CYPRESS STREET, SUITE 800  
TAMPA, FLORIDA 33607  
CERTIFICATE OF AUTHORIZATION NO. 894  
ROB R. SWANN, P.E. NO. 59517

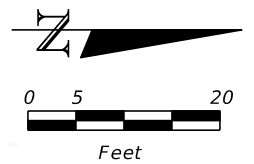


**CENTRAL AVE. BRT**

**STATION OPERATION**  
*PLAN (08)*

SHEET NO.  
**T-45**





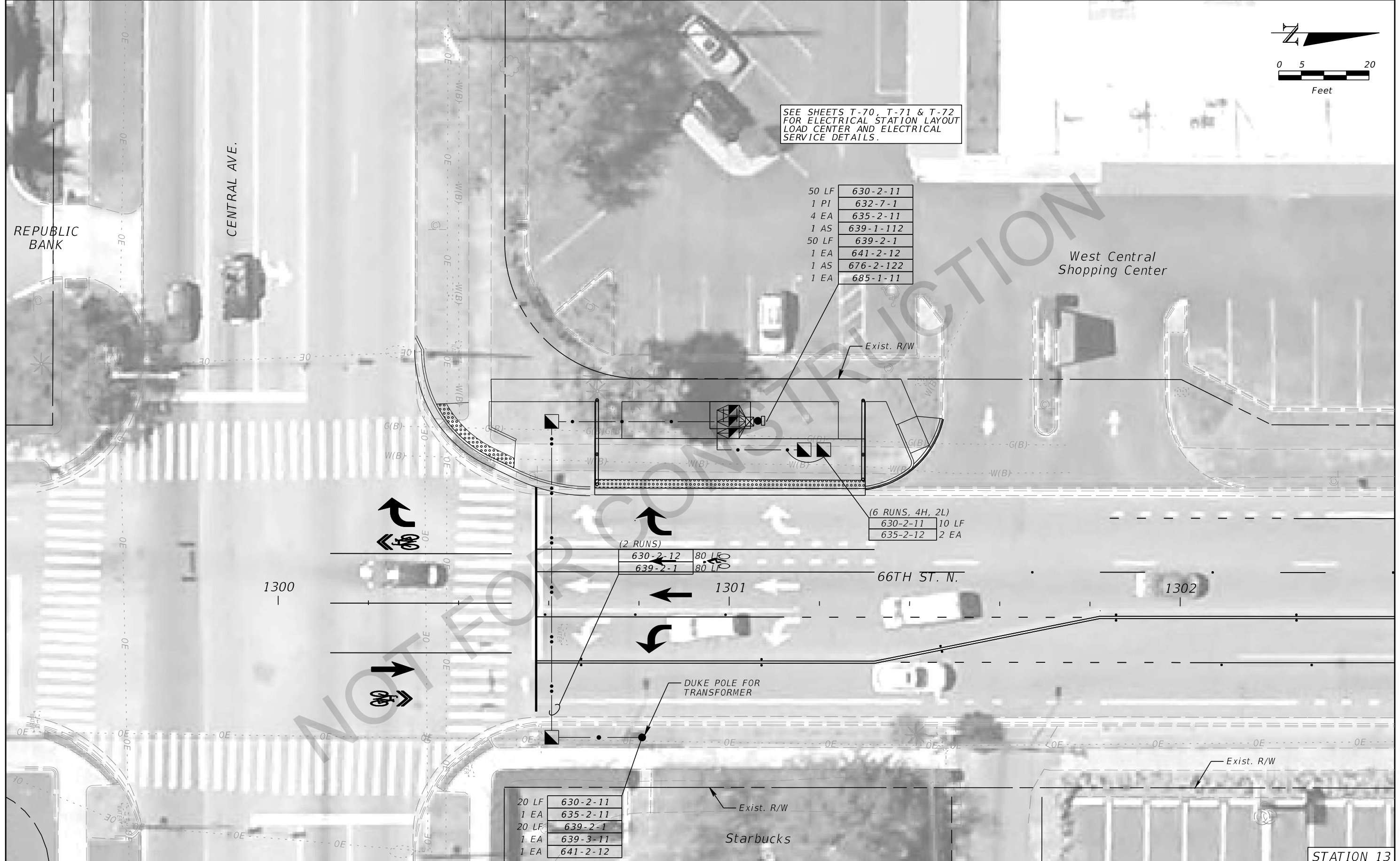
SEE SHEETS T-70, T-71 & T-72 FOR ELECTRICAL STATION LAYOUT LOAD CENTER AND ELECTRICAL SERVICE DETAILS.

50 LF	630-2-11
1 PI	632-7-1
4 EA	635-2-11
1 AS	639-1-112
50 LF	639-2-1
1 EA	641-2-12
1 AS	676-2-122
1 EA	685-1-11

(6 RUNS, 4H, 2L)	
630-2-11	10 LF
635-2-12	2 EA

(2 RUNS)	
630-2-12	80 LF
639-2-1	80 LF

20 LF	630-2-11
1 EA	635-2-11
20 LF	639-2-1
1 EA	639-3-11
1 EA	641-2-12



STATION 13

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

**LOCHNER**  
 4550 W. CYPRESS STREET, SUITE 800  
 TAMPA, FLORIDA 33607  
 CERTIFICATE OF AUTHORIZATION NO. 894  
 ROB R. SWANN, P.E. NO. 59517



**STATION OPERATION**  
**PLAN (10)**

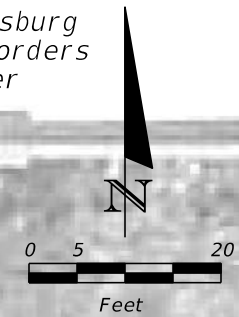
SHEET NO.  
**T-47**

Exxon  
Tiger Mart

St. Petersburg  
Sleep Disorders  
Center

58TH ST. S.

Shell  
Circle K



EXIST. OVERHEAD DUKE  
SERVICE POINT ON SIGNAL  
POLE & NEW RISER FOR  
STATION SERVICE

EXIST. CONTROLLER

45 LF	630-2-11
45 LF	639-2-1
1 EA	639-3-11
1 EA	641-2-12

630-2-11	35 LF
632-7-1	1 PI
635-2-11	3 EA
639-1-121	1 AS
639-2-1	35 LF
641-2-12	1 EA
676-2-122	1 AS
685-1-11	1 EA

SEE SHEETS T-70, T-71 & T-72  
FOR ELECTRICAL STATION LAYOUT  
LOAD CENTER AND ELECTRICAL  
SERVICE DETAILS.

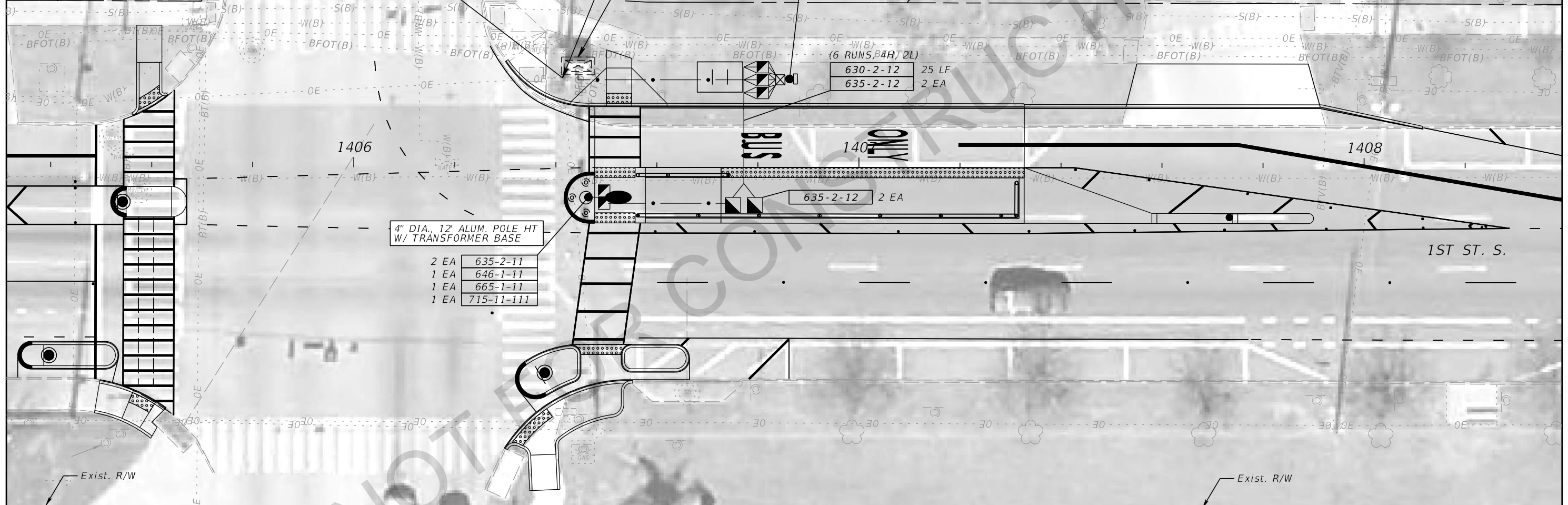
630-2-12	25 LF
635-2-12	2 EA

4" DIA., 12' ALUM. POLE HT  
W/ TRANSFORMER BASE

2 EA	635-2-11
1 EA	646-1-11
1 EA	665-1-11
1 EA	715-11-111

\*EXIST. CONTROLLER  
(TO BE REPLACED)  
SEE SHEET 7 OF 26  
ITS PLANS

SEE SHEET T-15  
FOR ADDITIONAL  
SIGNAL INFORMATION



HALL OF ANGELS  
MAUSOLEUM

58TH ST. S.

Hall of Angels  
Mausoleum

STATION 14

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

**LOCHNER**  
4550 W. CYPRESS STREET, SUITE 800  
TAMPA, FLORIDA 33607  
CERTIFICATE OF AUTHORIZATION NO. 894  
ROB R. SWANN, P.E. NO. 59517



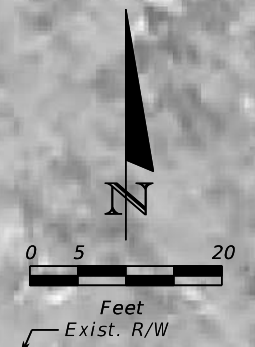
**STATION OPERATION  
PLAN (11)**

SHEET  
NO.  
**T-48**



Bear Creek Park

SEE SHEETS T-70, T-71 & T-72 FOR ELECTRICAL STATION LAYOUT LOAD CENTER AND ELECTRICAL SERVICE DETAILS.



Exist. R/W

58TH ST. N.

1ST AVE. N.

4" DIA., 12' ALUM. POLE HT W/ TRANSFORMER BASE

635-2-11	2 EA
665-1-1	1 EA
646-1-11	1 EA
715-11-111	1 EA

2 EA 635-2-12

1502

1503

1504

ONLY BUS

30 LF (6 RUNS, 4H, 2L) 630-2-12

EXISTING WOOD POLE W/ DUKE SERVICE/

SEE SHEET T-16 FOR ADDITIONAL SIGNAL INFORMATION

Exist. R/W

Exist. R/W

630-2-11	100 LF
632-7-1	1 PI
635-2-11	4 EA
639-2-1	100 LF
639-3-11	1 EA
641-2-12	2 EA
676-2-122	1 AS
685-1-11	1 EA

CVS Pharmacy

Family Dentistry

58TH ST. N.

STATION 15

REVISIONS	
DATE	DESCRIPTION

LOCHNER  
4550 W. CYPRESS STREET, SUITE 800  
TAMPA, FLORIDA 33607  
CERTIFICATE OF AUTHORIZATION NO. 894  
ROB R. SWANN, P.E. NO. 59517



STATION OPERATION  
PLAN (12)

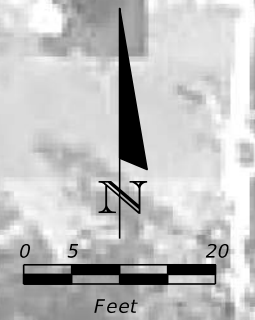
SHEET NO.  
T-49

Berkowitz & Meyer  
Law Firm

49TH ST. S.

P6  
PED. SIGNAL  
COUNT-DOWN  
1-SECT., 1-WAY  
2 AS  
653-1-11

Citgo  
Express



SEE SHEETS T-70, T-71 & T-72  
FOR ELECTRICAL STATION LAYOUT  
LOAD CENTER AND ELECTRICAL  
SERVICE DETAILS.

EXIST. SIGNAL  
CONTROLLER

Exist. R/W

Exist. R/W

1603

P6

1604

BUS ONLY

1605

16

4" DIA., 12' ALUM. POLE HT  
W/ TRANSFORMER BASE

- 2 EA 635-2-11
- 1 EA 646-1-11
- 1 EA 665-1-11
- 1 EA 715-11-111

1ST AVE. S.

2 EA 635-2-12

50 LF (6 RUNS, 3H, 3L)  
630-2-12

1ST AVE. S.

DUKE POWER SERVICE  
POINT, OVERHEAD

Exist. R/W

Exist. R/W

Stop & Shop  
Thrift Store

49TH ST. S.

Exist. R/W

- 630-2-11 100 LF
- 632-7-1 1 PI
- 635-2-11 4 EA
- 639-2-1 100 LF
- 641-2-12 1 EA
- 676-2-122 1 AS
- 685-1-11 1 EA

All Phase  
Security, IBC.

STATION 16

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LOCHNER  
4550 W. CYPRESS STREET, SUITE 800  
TAMPA, FLORIDA 33607  
CERTIFICATE OF AUTHORIZATION NO. 894  
ROB R. SWANN, P.E. NO. 59517



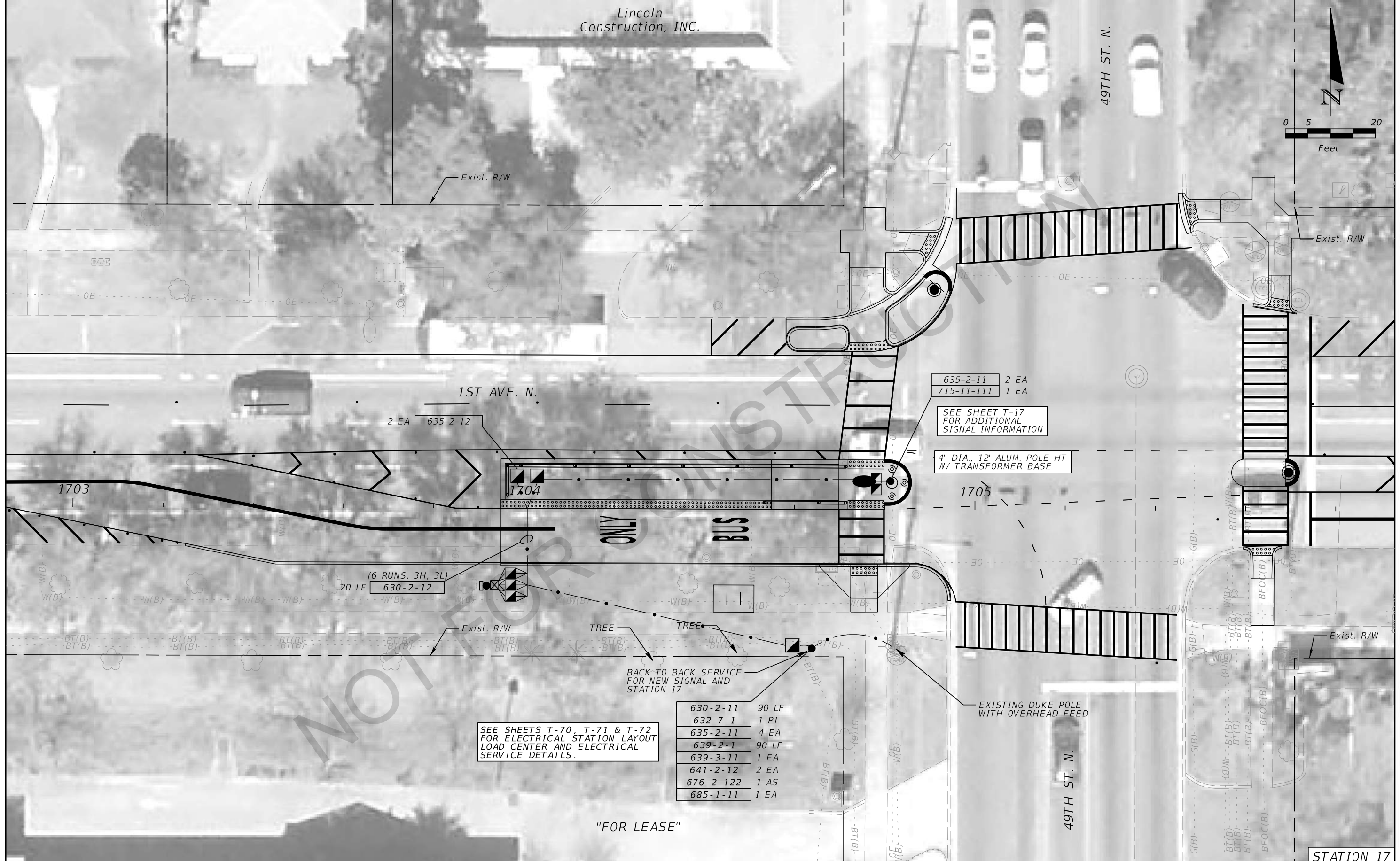
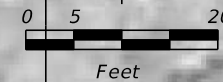
CENTRAL AVE. BRT

STATION OPERATION  
PLAN (13)

SHEET  
NO.

T-50

Lincoln  
Construction, INC.



635-2-11 2 EA  
715-11-111 1 EA

SEE SHEET T-17  
FOR ADDITIONAL  
SIGNAL INFORMATION

4" DIA., 12' ALUM. POLE HT  
W/ TRANSFORMER BASE

2 EA 635-2-12

(6 RUNS, 3H, 3L)  
20 LF 630-2-12

BACK-TO-BACK SERVICE  
FOR NEW SIGNAL AND  
STATION 17

630-2-11	90 LF
632-7-1	1 PI
635-2-11	4 EA
639-2-1	90 LF
639-3-11	1 EA
641-2-12	2 EA
676-2-122	1 AS
685-1-11	1 EA

SEE SHEETS T-70, T-71 & T-72  
FOR ELECTRICAL STATION LAYOUT  
LOAD CENTER AND ELECTRICAL  
SERVICE DETAILS.

EXISTING DUKE POLE  
WITH OVERHEAD FEED

"FOR LEASE"

STATION 17

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

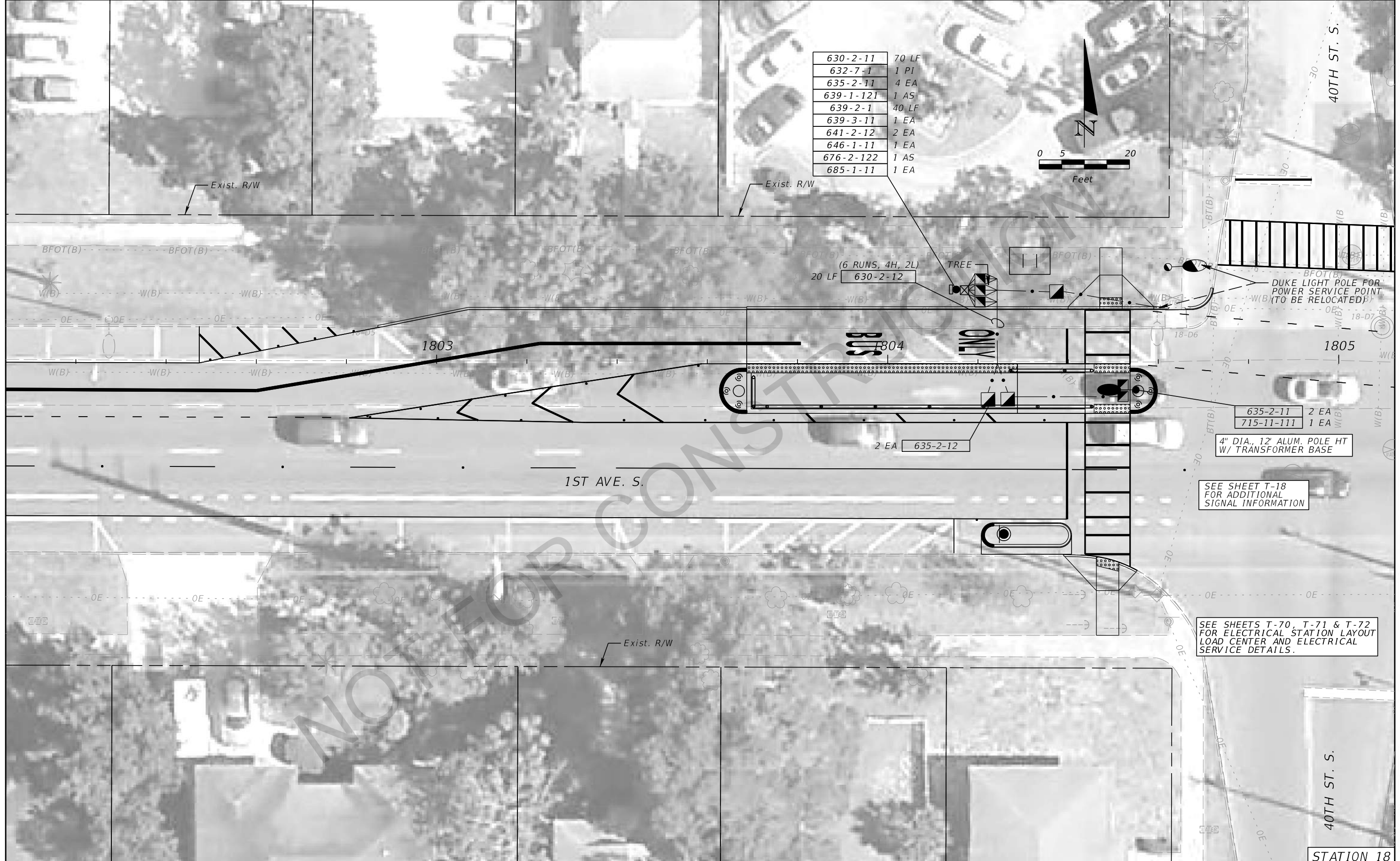
**LOCHNER**  
4550 W. CYPRESS STREET, SUITE 800  
TAMPA, FLORIDA 33607  
CERTIFICATE OF AUTHORIZATION NO. 894  
ROB R. SWANN, P.E. NO. 59517



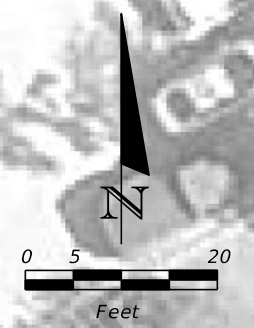
**CENTRAL AVE. BRT**

**STATION OPERATION  
PLAN (14)**

SHEET  
NO.  
**T-51**



630-2-11	70 LF
632-7-1	1 PI
635-2-11	4 EA
639-1-121	1 AS
639-2-1	40 LF
639-3-11	1 EA
641-2-12	2 EA
646-1-11	1 EA
676-2-122	1 AS
685-1-11	1 EA



(6 RUNS, 4H, 2L)  
20 LF 630-2-12



DUKE LIGHT POLE FOR POWER SERVICE POINT (TO BE RELOCATED)

635-2-11 2 EA  
715-11-111 1 EA  
4" DIA., 12' ALUM. POLE HT W/ TRANSFORMER BASE

SEE SHEET T-18 FOR ADDITIONAL SIGNAL INFORMATION

SEE SHEETS T-70, T-71 & T-72 FOR ELECTRICAL STATION LAYOUT LOAD CENTER AND ELECTRICAL SERVICE DETAILS.

STATION 18

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

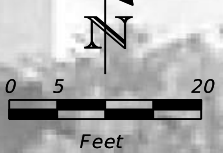
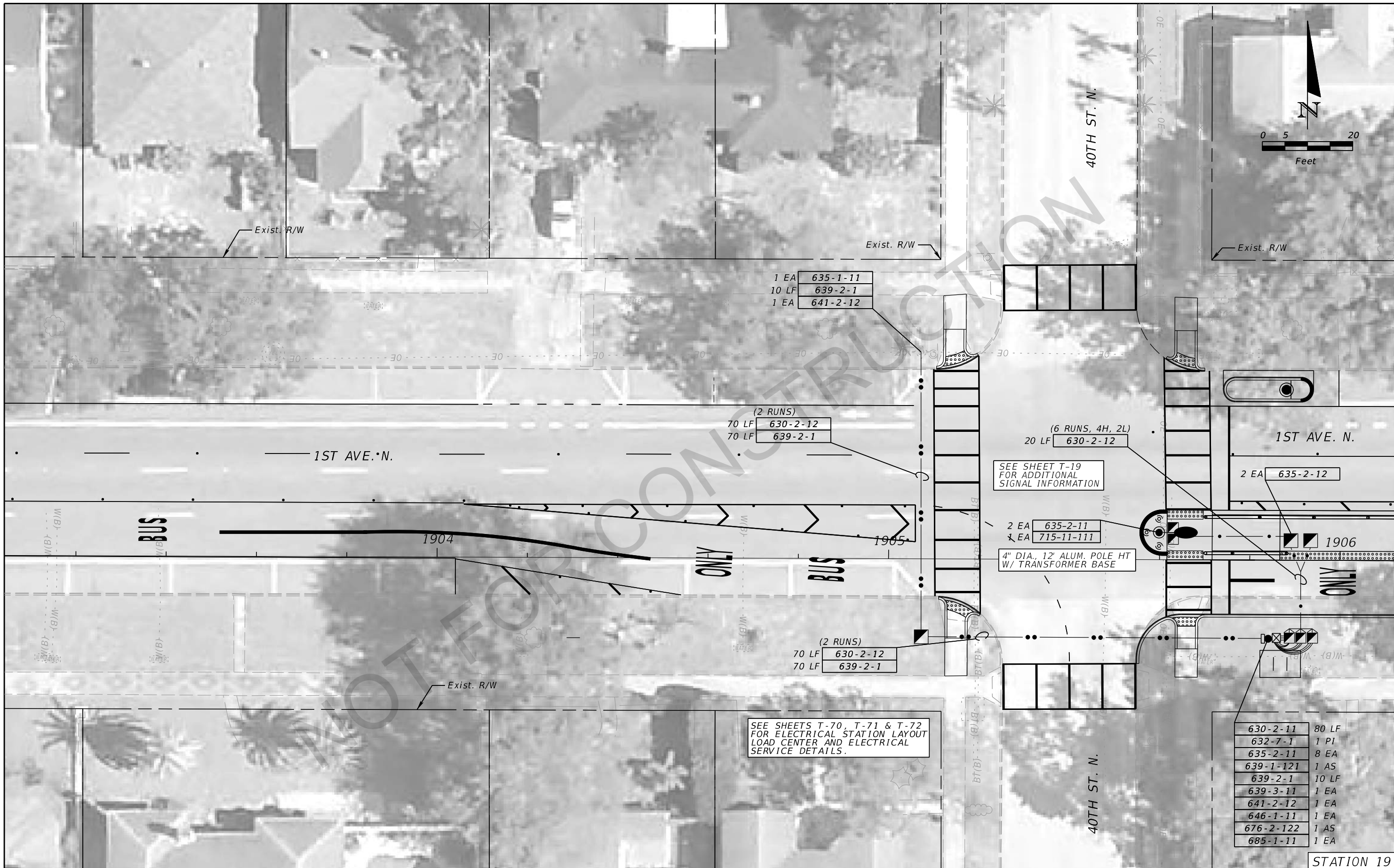
**LOCHNER**  
4550 W. CYPRESS STREET, SUITE 800  
TAMPA, FLORIDA 33607  
CERTIFICATE OF AUTHORIZATION NO. 894  
ROB R. SWANN, P.E. NO. 59517



**CENTRAL AVE. BRT**

**STATION OPERATION**  
*PLAN (15)*

SHEET NO.  
**T-52**



1 EA 635-1-11  
 10 LF 639-2-1  
 1 EA 641-2-12

(2 RUNS)  
 70 LF 630-2-12  
 70 LF 639-2-1

(6 RUNS, 4H, 2L)  
 20 LF 630-2-12

2 EA 635-2-12

SEE SHEET T-19  
 FOR ADDITIONAL  
 SIGNAL INFORMATION

2 EA 635-2-11  
 1 EA 715-11-111

4" DIA., 12' ALUM. POLE HT  
 W/ TRANSFORMER BASE

(2 RUNS)  
 70 LF 630-2-12  
 70 LF 639-2-1

SEE SHEETS T-70, T-71 & T-72  
 FOR ELECTRICAL STATION LAYOUT  
 LOAD CENTER AND ELECTRICAL  
 SERVICE DETAILS.

630-2-11	80 LF
632-7-1	1 PI
635-2-11	8 EA
639-1-121	1 AS
639-2-1	10 LF
639-3-11	1 EA
641-2-12	1 EA
646-1-11	1 EA
676-2-122	1 AS
685-1-11	1 EA

STATION 19

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

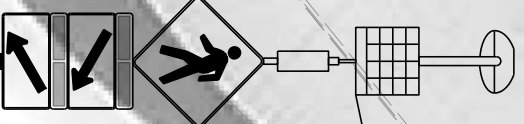
**LOCHNER**  
 4550 W. CYPRESS STREET, SUITE 800  
 TAMPA, FLORIDA 33607  
 CERTIFICATE OF AUTHORIZATION NO. 894  
 ROB R. SWANN, P.E. NO. 59517



**STATION OPERATION**  
**PLAN (16)**

SHEET NO.  
**T-53**

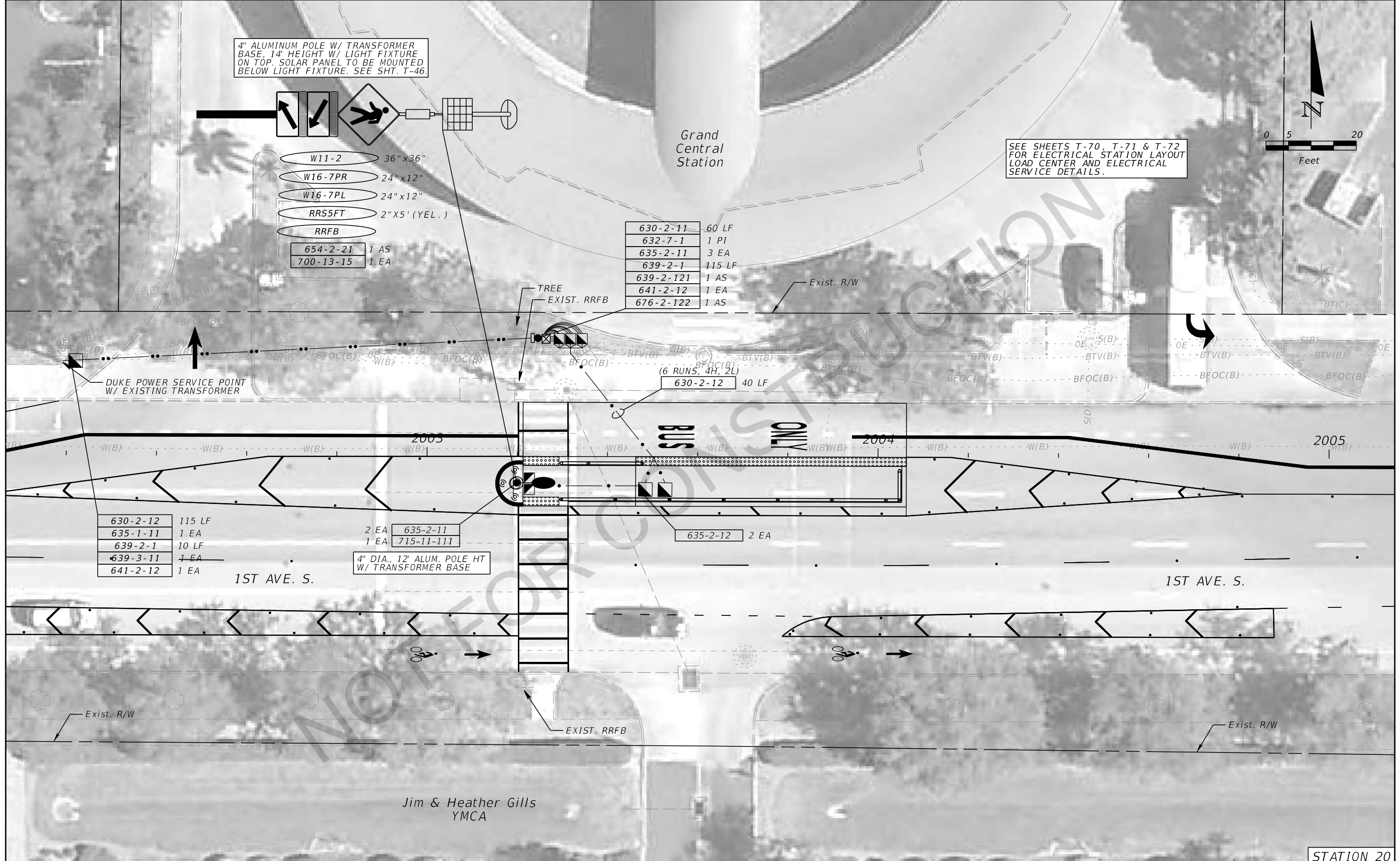
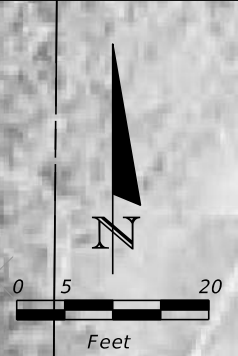
4" ALUMINUM POLE W/ TRANSFORMER BASE, 14' HEIGHT W/ LIGHT FIXTURE ON TOP. SOLAR PANEL TO BE MOUNTED BELOW LIGHT FIXTURE. SEE SHT. T-46.



- W11-2 36" x 36"
- W16-7PR 24" x 12"
- W16-7PL 24" x 12"
- RRS5FT 2" X 5' (YEL.)
- RRFB
- 654-2-21 1 AS
- 700-13-15 1 EA

- 630-2-11 60 LF
- 632-7-1 1 PI
- 635-2-11 3 EA
- 639-2-1 115 LF
- 639-2-121 1 AS
- 641-2-12 1 EA
- 676-2-122 1 AS

SEE SHEETS T-70, T-71 & T-72 FOR ELECTRICAL STATION LAYOUT LOAD CENTER AND ELECTRICAL SERVICE DETAILS.



- 630-2-12 115 LF
- 635-1-11 1 EA
- 639-2-1 10 LF
- 639-3-11 1 EA
- 641-2-12 1 EA

2 EA 635-2-11  
1 EA 715-11-111  
4" DIA., 12' ALUM. POLE HT W/ TRANSFORMER BASE

(6 RUNS, 4H, 2L)  
630-2-12 40 LF

635-2-12 2 EA

STATION 20

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

**LOCHNER**  
4550 W. CYPRESS STREET, SUITE 800  
TAMPA, FLORIDA 33607  
CERTIFICATE OF AUTHORIZATION NO. 894  
ROB R. SWANN, P.E. NO. 59517



**STATION OPERATION**  
*PLAN (17)*

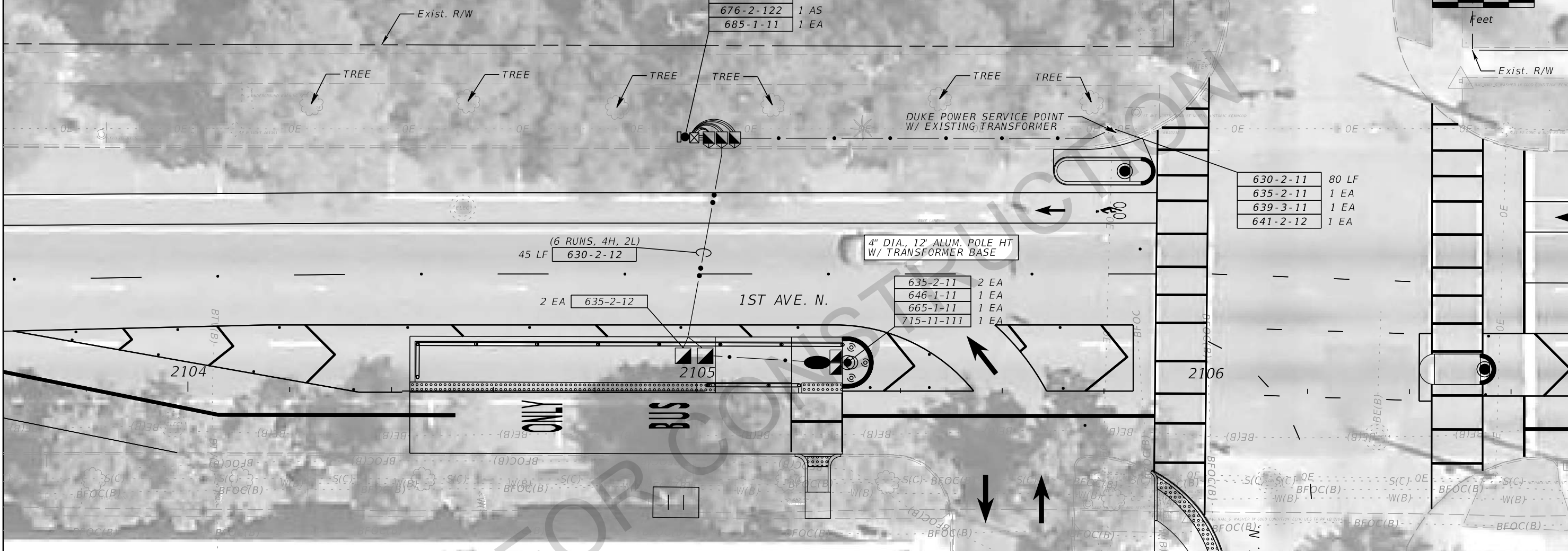
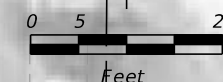
SHEET NO.  
**T-54**

Walmart

630-2-11	120 LF
632-7-1	1 PI
635-2-11	4 EA
639-2-1	80 LF
639-2-121	1 AS
641-2-12	1 EA
676-2-122	1 AS
685-1-11	1 EA

SEE SHEETS T-70, T-71 & T-72 FOR ELECTRICAL STATION LAYOUT LOAD CENTER AND ELECTRICAL SERVICE DETAILS.

32ND ST. N.



630-2-11	80 LF
635-2-11	1 EA
639-3-11	1 EA
641-2-12	1 EA

635-2-11	2 EA
646-1-11	1 EA
665-1-11	1 EA
715-11-111	1 EA

(6 RUNS, 4H, 2L)  
45 LF 630-2-12

2 EA 635-2-12

1ST AVE. N.

2104

2105

2106

ONLY BUS

Family Dollar

32ND ST. N.

STATION 21

REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION

**LOCHNER**  
 4550 W. CYPRESS STREET, SUITE 800  
 TAMPA, FLORIDA 33607  
 CERTIFICATE OF AUTHORIZATION NO. 894  
 ROB R. SWANN, P.E. NO. 59517



**STATION OPERATION**  
**PLAN (18)**

**SHEET NO.**  
**T-55**

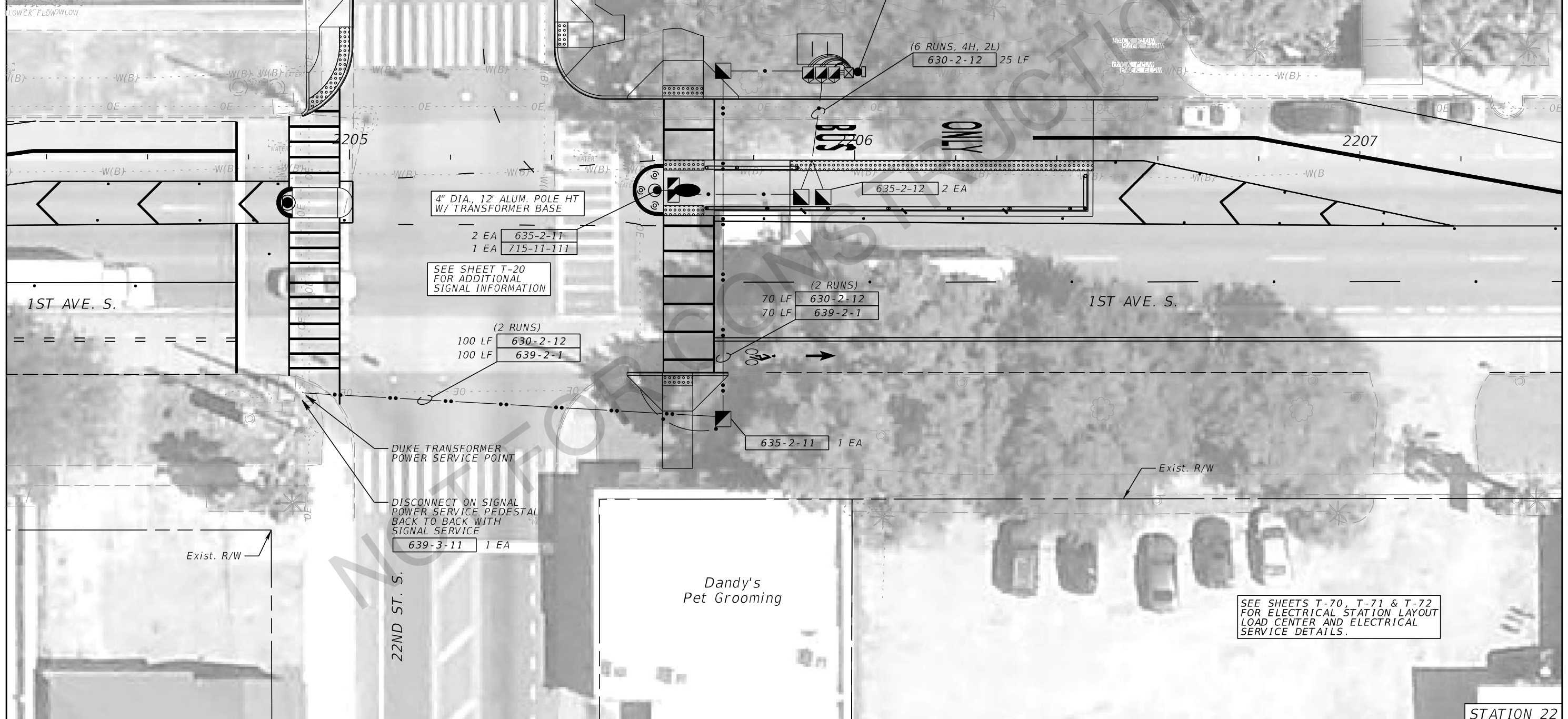
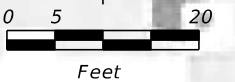
LumaStream, INC.

22ND ST. S.

Printery  
Calusa Press Co.  
Gift Shop

630-2-11	30 LF
632-7-1	1 PI
635-2-11	4 EA
639-2-1	30 LF
639-2-121	1 AS
641-2-12	1 EA
676-2-122	1 AS
685-1-11	1 EA

St. Petersburg  
Opera Company



4" DIA., 12" ALUM. POLE HT  
W/ TRANSFORMER BASE

2 EA 635-2-11  
1 EA 715-11-111

SEE SHEET T-20  
FOR ADDITIONAL  
SIGNAL INFORMATION

(2 RUNS)  
100 LF 630-2-12  
100 LF 639-2-1

(2 RUNS)  
70 LF 630-2-12  
70 LF 639-2-1

635-2-11 1 EA

DUKE TRANSFORMER  
POWER SERVICE POINT

DISCONNECT ON SIGNAL  
POWER SERVICE PEDESTAL  
BACK TO BACK WITH  
SIGNAL SERVICE

639-3-11 1 EA

Dandy's  
Pet Grooming

SEE SHEETS T-70, T-71 & T-72  
FOR ELECTRICAL STATION LAYOUT  
LOAD CENTER AND ELECTRICAL  
SERVICE DETAILS.

STATION 22

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

**LOCHNER**  
 4550 W. CYPRESS STREET, SUITE 800  
 TAMPA, FLORIDA 33607  
 CERTIFICATE OF AUTHORIZATION NO. 894  
 ROB R. SWANN, P.E. NO. 59517

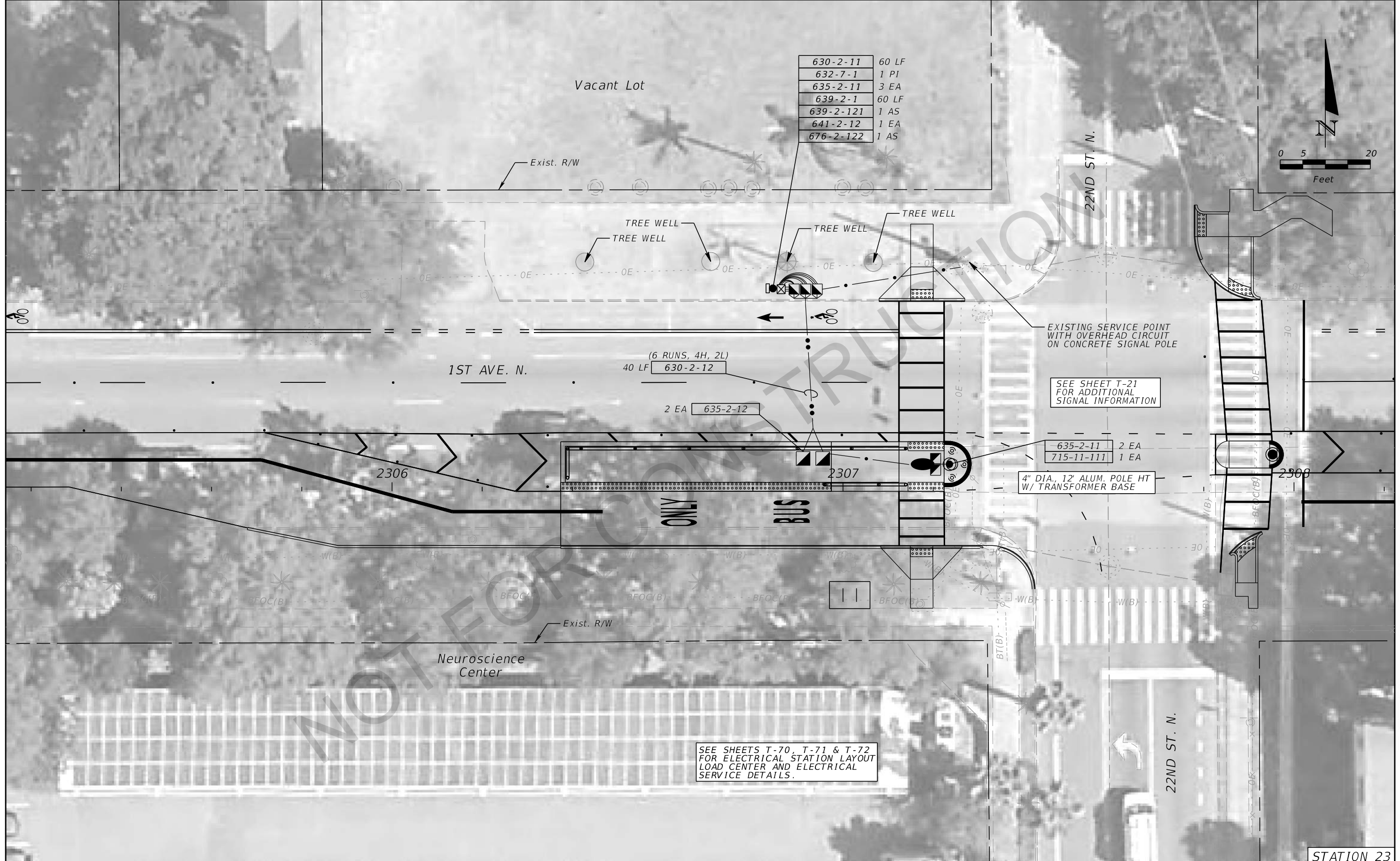


**CENTRAL AVE. BRT**

**STATION OPERATION  
 PLAN (19)**

SHEET  
 NO.  
**T-56**





630-2-11	60 LF
632-7-1	1 PI
635-2-11	3 EA
639-2-1	60 LF
639-2-121	1 AS
641-2-12	1 EA
676-2-122	1 AS

Vacant Lot

Exist. R/W

TREE WELL  
TREE WELL

TREE WELL

TREE WELL

1ST AVE. N.

(6 RUNS, 4H, 2L)  
40 LF 630-2-12

2 EA 635-2-12

EXISTING SERVICE POINT WITH OVERHEAD CIRCUIT ON CONCRETE SIGNAL POLE

SEE SHEET T-21 FOR ADDITIONAL SIGNAL INFORMATION

635-2-11 2 EA  
715-11-111 1 EA

4" DIA., 12' ALUM. POLE HT W/ TRANSFORMER BASE

2306

2307

2308

ONLY BUS

Exist. R/W

Neuroscience Center

SEE SHEETS T-70, T-71 & T-72 FOR ELECTRICAL STATION LAYOUT LOAD CENTER AND ELECTRICAL SERVICE DETAILS.

22ND ST. N.

STATION 23

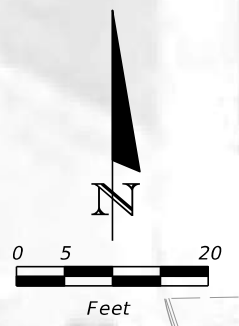
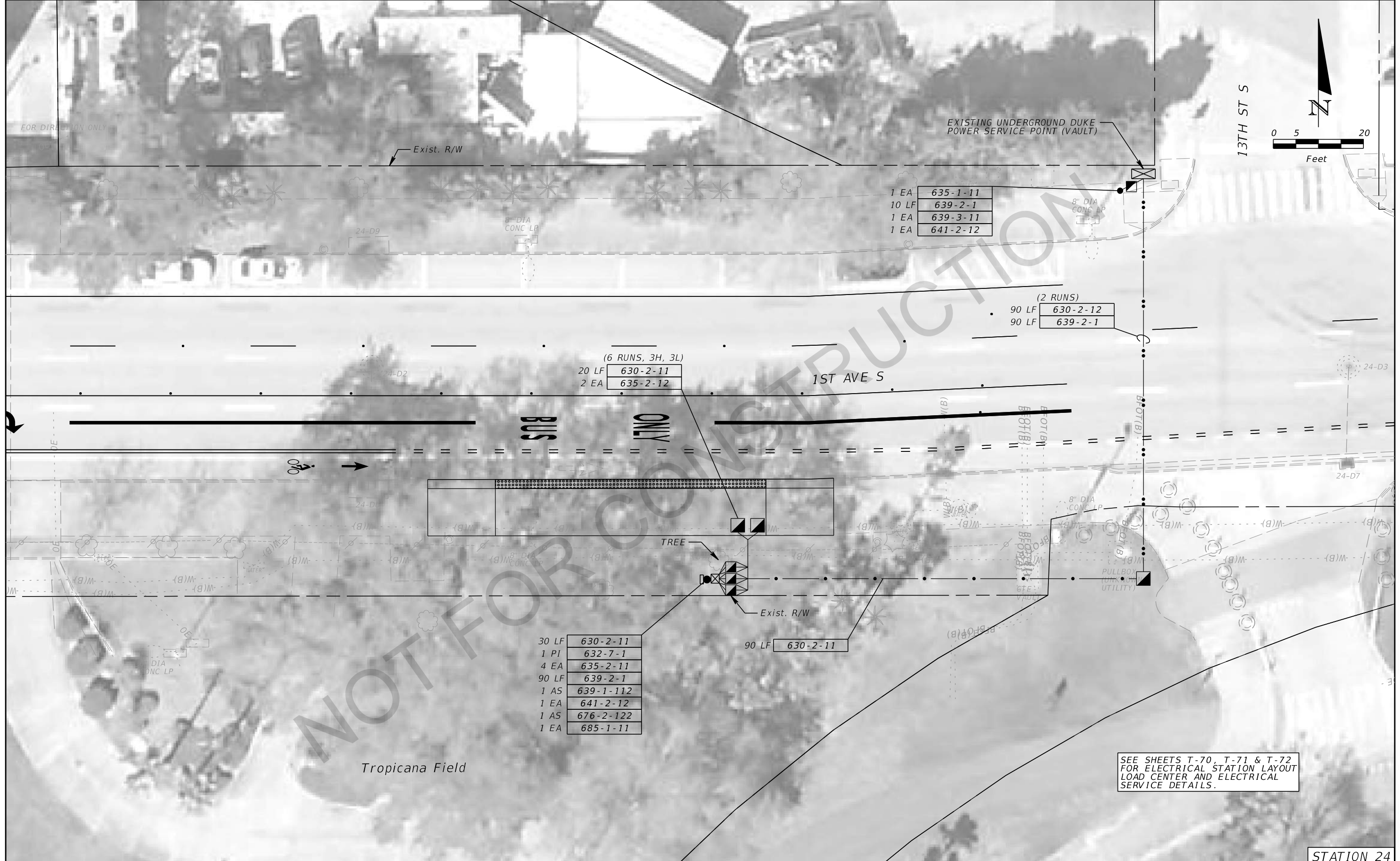
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

**LOCHNER**  
 4550 W. CYPRESS STREET, SUITE 800  
 TAMPA, FLORIDA 33607  
 CERTIFICATE OF AUTHORIZATION NO. 894  
 ROB R. SWANN, P.E. NO. 59517



**STATION OPERATION**  
**PLAN (20)**

SHEET NO.  
**T-57**



1 EA	635-1-11
10 LF	639-2-1
1 EA	639-3-11
1 EA	641-2-12

(2 RUNS)	
90 LF	630-2-12
90 LF	639-2-1

(6 RUNS, 3H, 3L)	
20 LF	630-2-11
2 EA	635-2-12

30 LF	630-2-11
1 PI	632-7-1
4 EA	635-2-11
90 LF	639-2-1
1 AS	639-1-112
1 EA	641-2-12
1 AS	676-2-122
1 EA	685-1-11

SEE SHEETS T-70, T-71 & T-72 FOR ELECTRICAL STATION LAYOUT, LOAD CENTER AND ELECTRICAL SERVICE DETAILS.

STATION 24

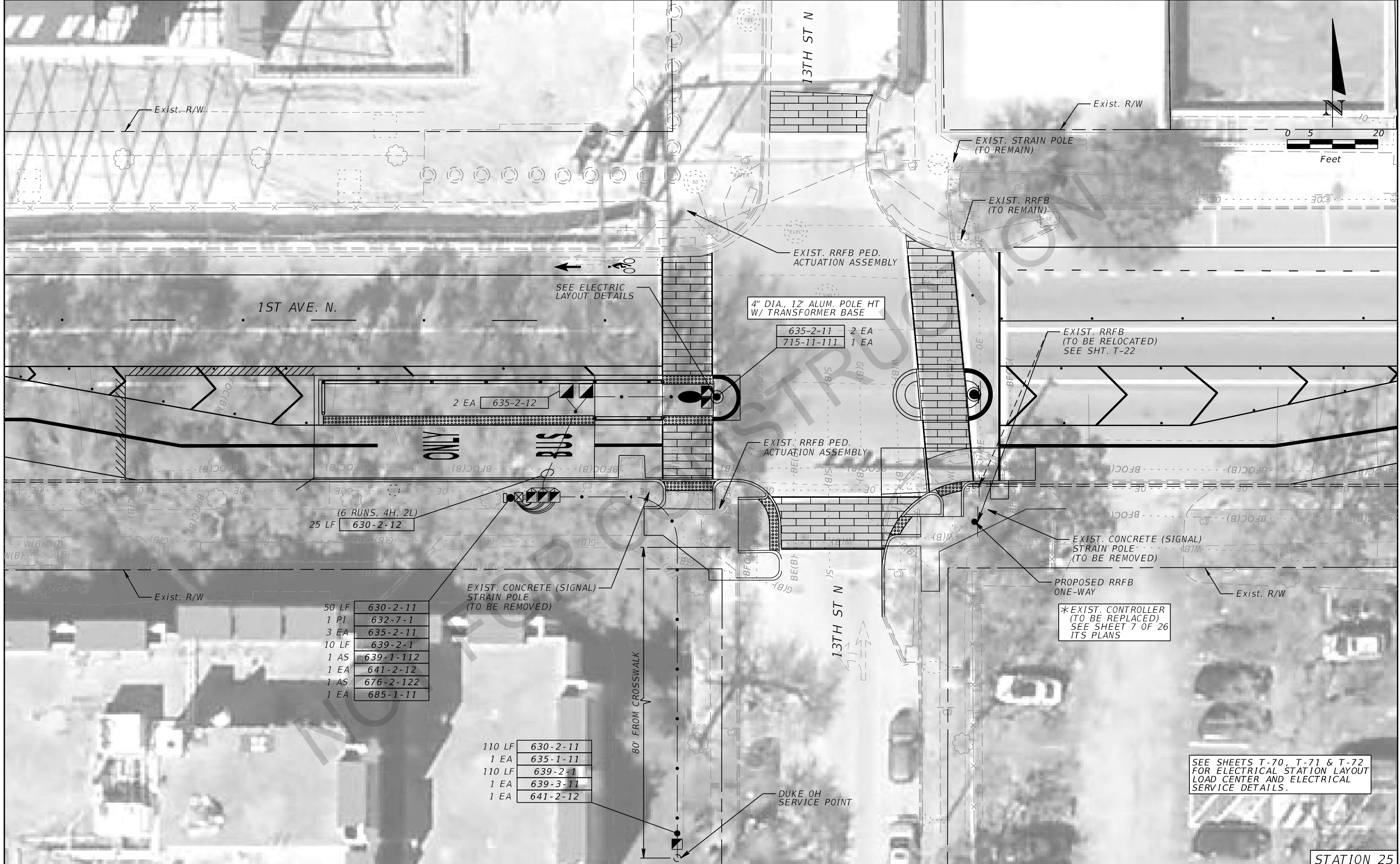
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

**LOCHNER**  
 4550 W. CYPRESS STREET, SUITE 800  
 TAMPA, FLORIDA 33607  
 CERTIFICATE OF AUTHORIZATION NO. 894  
 ROB R. SWANN, P.E. NO. 59517



**STATION OPERATION**  
**PLAN (21)**

SHEET NO.  
**T-58**



50 LF	630-2-11
1 PI	632-7-1
3 EA	635-2-11
10 LF	639-2-11
1 AS	639-1-112
1 EA	641-2-12
1 AS	676-2-122
1 EA	685-1-11

110 LF	630-2-11
1 EA	635-1-11
110 LF	639-2-11
1 EA	639-3-11
1 EA	641-2-12

SEE SHEETS T-70, T-71 & T-72 FOR ELECTRICAL STATION LAYOUT LOAD CENTER AND ELECTRICAL SERVICE DETAILS.

STATION 25

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

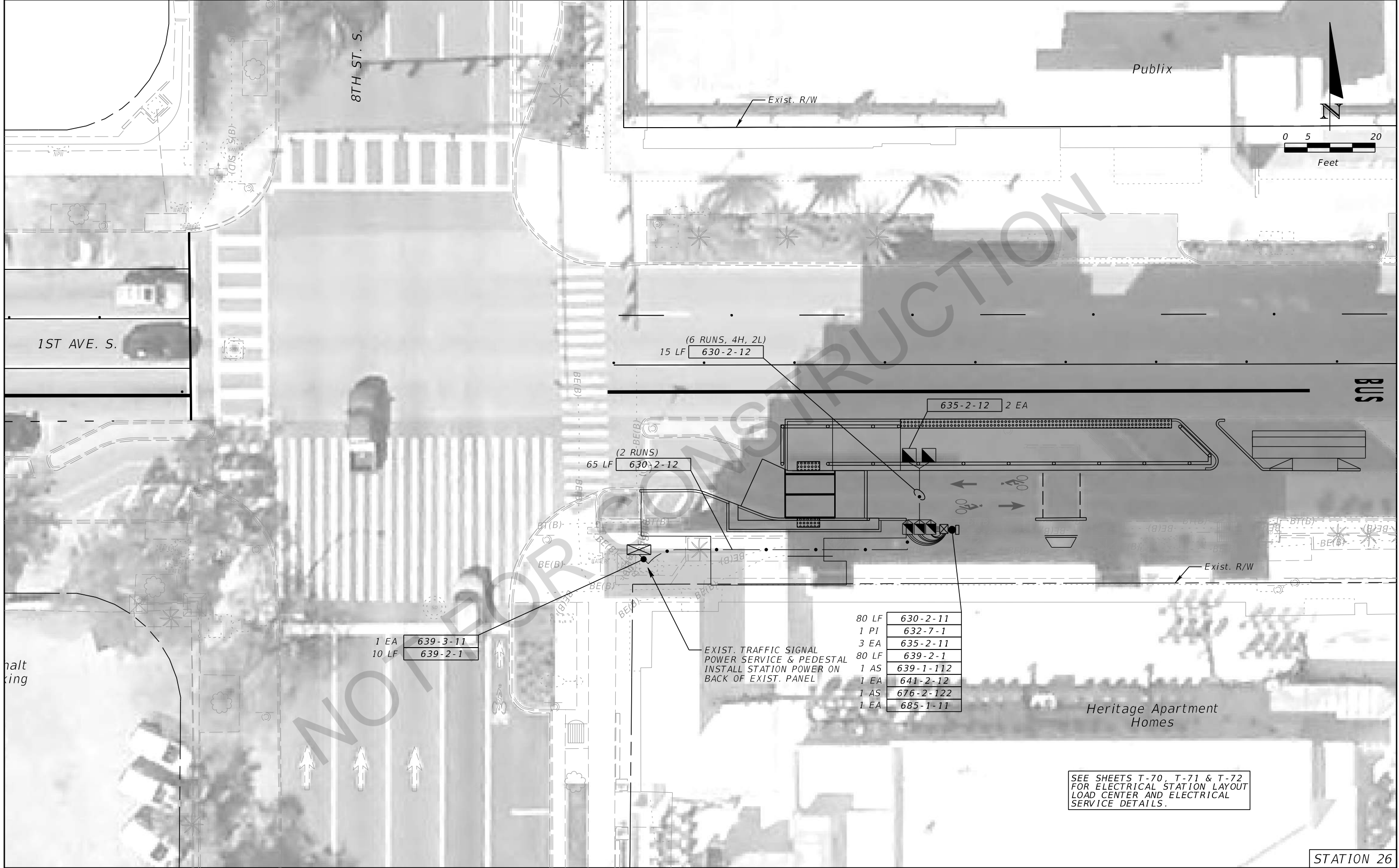
**LOCHNER**  
 4550 W. CYPRESS STREET, SUITE 800  
 TAMPA, FLORIDA 33607  
 CERTIFICATE OF AUTHORIZATION NO. 894  
 ROB R. SWANN, P.E. NO. 59517



**CENTRAL AVE. BRT**

**STATION OPERATION**  
**PLAN (22)**

SHEET NO.  
**T-59**



STATION 26

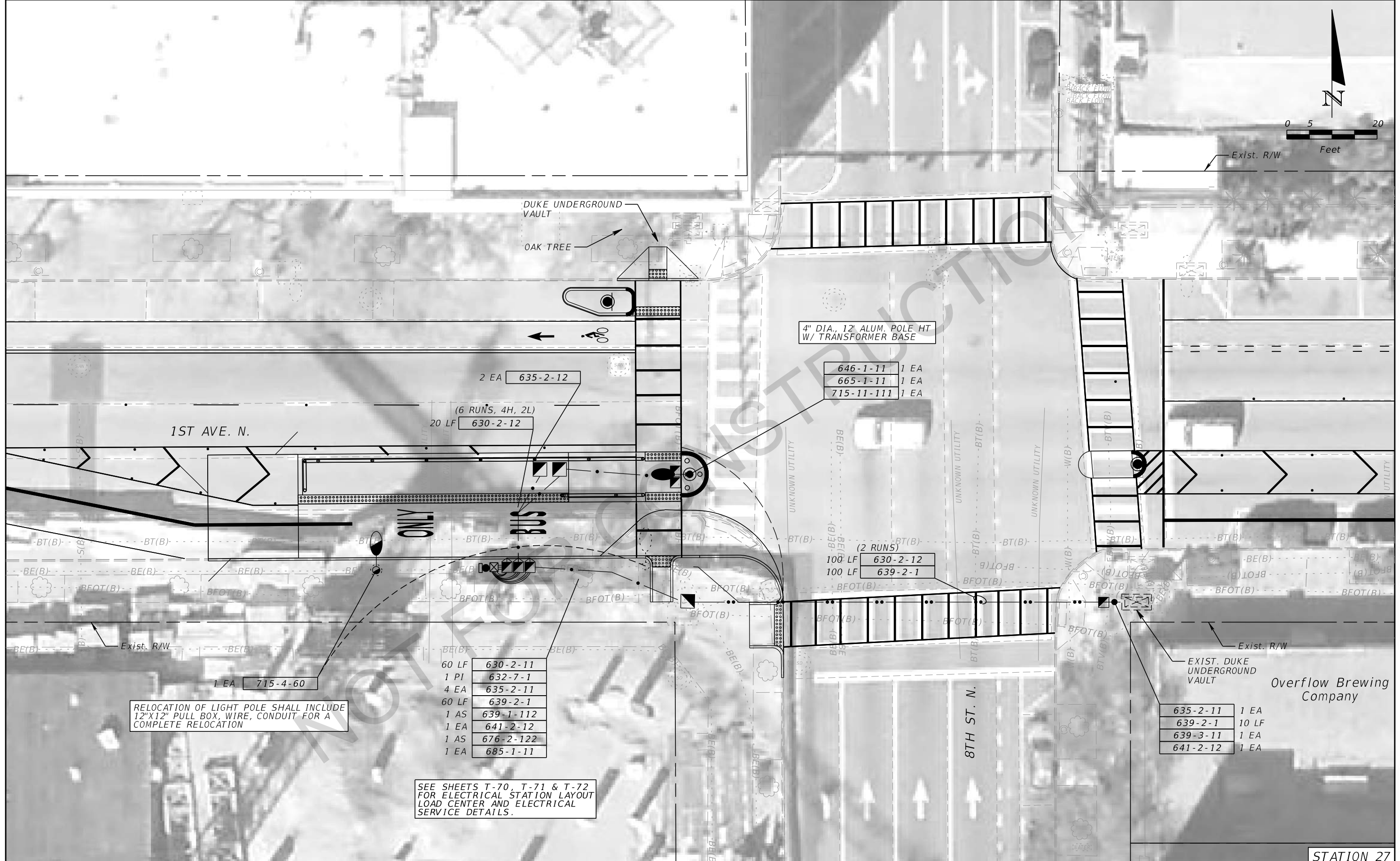
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

**LOCHNER**  
 4550 W. CYPRESS STREET, SUITE 800  
 TAMPA, FLORIDA 33607  
 CERTIFICATE OF AUTHORIZATION NO. 894  
 ROB R. SWANN, P.E. NO. 59517



**STATION OPERATION**  
**PLAN (23)**

SHEET NO.  
**T-60**



4" DIA., 12' ALUM. POLE HT  
W/ TRANSFORMER BASE

- 646-1-11 1 EA
- 665-1-11 1 EA
- 715-11-111 1 EA

- 2 EA 635-2-12
- (6 RUNS, 4H, 2L)  
20 LF 630-2-12

- (2 RUNS)
- 100 LF 630-2-12
- 100 LF 639-2-1

RELOCATION OF LIGHT POLE SHALL INCLUDE  
12"X12" PULL BOX, WIRE, CONDUIT FOR A  
COMPLETE RELOCATION

- 60 LF 630-2-11
- 1 PI 632-7-1
- 4 EA 635-2-11
- 60 LF 639-2-1
- 1 AS 639-1-112
- 1 EA 641-2-12
- 1 AS 676-2-122
- 1 EA 685-1-11

SEE SHEETS T-70, T-71 & T-72  
FOR ELECTRICAL STATION LAYOUT  
LOAD CENTER AND ELECTRICAL  
SERVICE DETAILS.

- 635-2-11 1 EA
- 639-2-1 10 LF
- 639-3-11 1 EA
- 641-2-12 1 EA

STATION 27

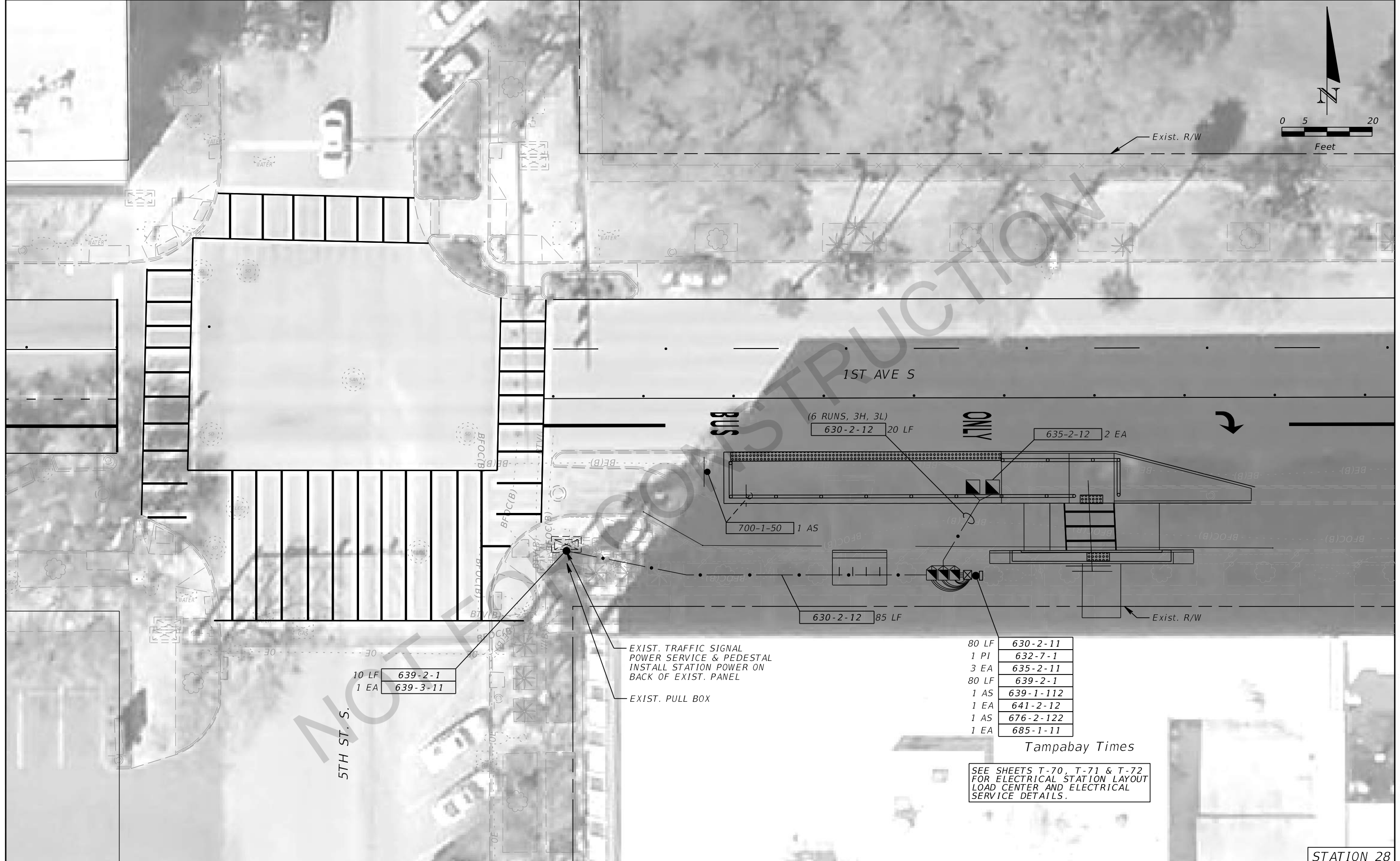
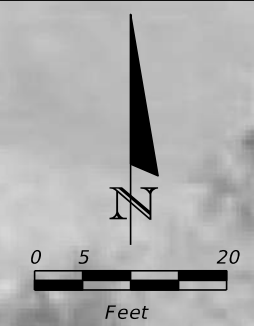
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

**LOCHNER**  
4550 W. CYPRESS STREET, SUITE 800  
TAMPA, FLORIDA 33607  
CERTIFICATE OF AUTHORIZATION NO. 894  
ROB R. SWANN, P.E. NO. 59517



**STATION OPERATION**  
*PLAN (24)*

SHEET NO.  
**T-61**



80 LF	630-2-11
1 PI	632-7-1
3 EA	635-2-11
80 LF	639-2-1
1 AS	639-1-112
1 EA	641-2-12
1 AS	676-2-122
1 EA	685-1-11

Tampabay Times

SEE SHEETS T-70, T-71 & T-72 FOR ELECTRICAL STATION LAYOUT LOAD CENTER AND ELECTRICAL SERVICE DETAILS.

STATION 28

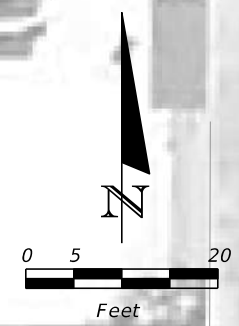
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

**LOCHNER**  
 4550 W. CYPRESS STREET, SUITE 800  
 TAMPA, FLORIDA 33607  
 CERTIFICATE OF AUTHORIZATION NO. 894  
 ROB R. SWANN, P.E. NO. 59517



**STATION OPERATION**  
**PLAN (25)**

SHEET NO.  
**T-62**



639-2-1	10 LF
639-3-11	1 EA
641-2-12	1 EA

\*EXIST. CONTROLLER  
(TO BE REPLACED)  
SEE SHEET 7 OF 26  
ITERIS PLANS

DUKE UNDERGROUND  
POWER SERVICE POINT  
653-1-11 2 EA

4" DIA., 12' ALUM. POLE HT  
W/ TRANSFORMER BASE

646-1-11	1 EA
665-1-11	1 EA
715-11-111	1 EA

(2 RUNS)

630-2-12	85 LF
639-2-1	85 LF

635-2-12 2 EA

1ST AVE. N.

ONLY  
BUS

(6 RUNS, 4H, 2L)  
630-2-12 20 LF

40 LF	630-2-11
1 PI	632-7-1
4 EA	635-2-11
40 LF	639-2-1
1 AS	639-1-112
1 EA	641-2-12
1 AS	676-2-122
1 EA	685-1-11

SEE SHEETS T-70, T-71 & T-72  
FOR ELECTRICAL STATION LAYOUT  
LOAD CENTER AND ELECTRICAL  
SERVICE DETAILS.

STATION 29

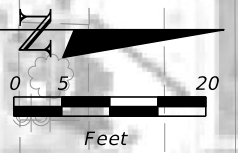
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

**LOCHNER**  
4550 W. CYPRESS STREET, SUITE 800  
TAMPA, FLORIDA 33607  
CERTIFICATE OF AUTHORIZATION NO. 894  
ROB R. SWANN, P.E. NO. 59517



**STATION OPERATION**  
*PLAN (26)*

SHEET NO.  
**T-63**



RELOCATION OF LIGHT POLE SHALL INCLUDE 12"X12" PULL BOX, WIRE, CONDUIT FOR A COMPLETE RELOCATION

Exist. R/W 1 EA 715-4-60

2 EA 635-2-12

EXIST. PULL BOXES

EXIST. DUKE LIGHT POLE  
FDOT LIGHT POLE

(6 RUNS, 3H, 3L)  
60 LF 630-2-12

630-2-11	55 LF
632-7-1	1 PI
635-2-11	3 EA
639-2-1	30 LF
639-1-112	1 AS
641-2-12	1 EA
676-2-122	1 AS
685-1-11	1 EA

SEE SHEETS T-70, T-71 & T-72 FOR ELECTRICAL STATION LAYOUT LOAD CENTER AND ELECTRICAL SERVICE DETAILS.

EXIST. FIBER PULL BOX  
EXIST. DUKE POLE FOR SERVICE POINT

4TH ST. S.

ONLY BUS

Exist. R/W

3RD AVE. S.

STATION 30

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

**LOCHNER**  
4550 W. CYPRESS STREET, SUITE 800  
TAMPA, FLORIDA 33607  
CERTIFICATE OF AUTHORIZATION NO. 894  
ROB R. SWANN, P.E. NO. 59517



**STATION OPERATION**  
*PLAN (27)*

SHEET NO.  
**T-64**





SEE SHEETS T-70, T-71 & T-72  
FOR ELECTRICAL STATION LAYOUT  
LOAD CENTER AND ELECTRICAL  
SERVICE DETAILS.

3RD AVE. S.

3RD ST. S.

**BUS ONLY**

RELOCATION OF LIGHT POLE SHALL INCLUDE  
12"x12" PULL BOX, WIRE, CONDUIT FOR A  
COMPLETE RELOCATION

(RELOCATE EXIST. DECORATIVE  
LIGHT POLE, COMPLETE)

195'

(3 RUNS, 3H, 3L)  
150 LF 630-2-12

1 EA 715-4-60

2 EA 635-2-12

DUKE UNDERGROUND  
VAULT SERVICE POINT

Exist. R/W

630-2-11	50 LF
632-7-1	1 PI
635-2-11	3 EA
639-2-1	50 LF
639-1-112	1 AS
641-2-12	1 EA
676-2-122	1 AS
685-1-11	1 EA

STATION 31

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

**LOCHNER**  
4550 W. CYPRESS STREET, SUITE 800  
TAMPA, FLORIDA 33607  
CERTIFICATE OF AUTHORIZATION NO. 894  
ROB R. SWANN, P.E. NO. 59517



**STATION OPERATION  
PLAN (28)**

SHEET NO.  
**T-65**



Exist. R/W

6TH AVE. S.

SEE SHEETS T-70, T-71 & T-72 FOR ELECTRICAL STATION LAYOUT LOAD CENTER AND ELECTRICAL SERVICE DETAILS.

630-2-11	80 LF
632-7-1	1 PI
635-2-11	5 EA
639-2-1	80 LF
639-1-112	1 AS
641-2-12	1 EA
676-2-122	1 AS
685-1-11	1 EA

EXIST. DUKE OH POWER FEED

10 LF	639-2-1
1 EA	639-3-11
1 EA	641-2-12

6TH AVE. S.

3RD ST. S.

RELOCATION OF LIGHT POLE SHALL INCLUDE 12"X12" PULL BOX, WIRE, CONDUIT FOR A COMPLETE RELOCATION

(TO BE RELOCATED)  
700-1-50 1 AS

1 EA 715-4-60

635-2-12 2 EA

(6 RUNS, 4H, 2L)  
630-2-12 15 LF

Exist. R/W

STATION 32

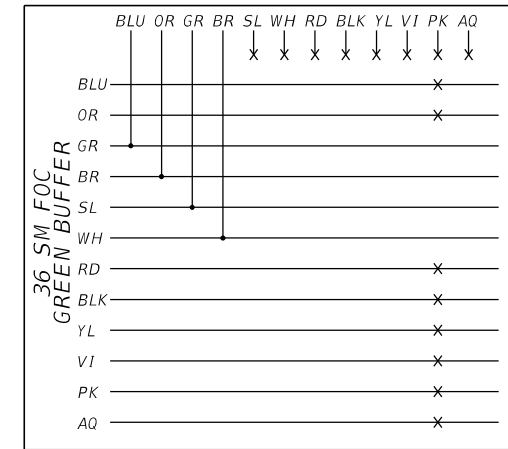
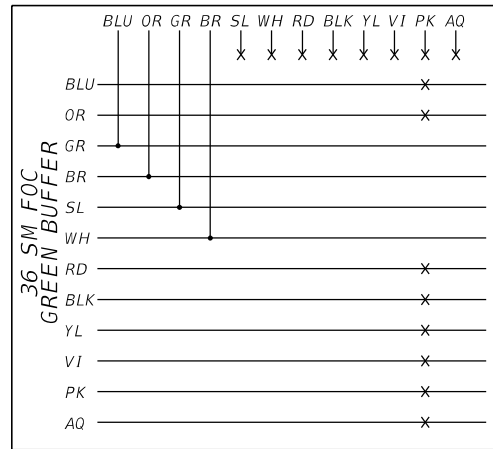
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

**LOCHNER**  
4550 W. CYPRESS STREET, SUITE 800  
TAMPA, FLORIDA 33607  
CERTIFICATE OF AUTHORIZATION NO. 894  
ROB R. SWANN, P.E. NO. 59517



**STATION OPERATION**  
*PLAN (29)*

SHEET NO.  
**T-66**



STATION OPERATION 34th Ave. S. to GRAND CENTRAL STATION  
OPERATION SPLICE DETAILS



EXIST. SPLICE VAULT

633-1-111	50 LF
633-2-31	1 EA
633-2-32	1 EA
633-3-11	1 EA
633-3-12	1 EA
633-3-14	1 EA
633-3-31	1 EA

(2 - 2" RUNS)  
630-2-12 750 LF  
633-1-121 750 LF

633-1-111 50 LF  
635-2-11 1 EA

CENTRAL AVE. N.

Exist. R/W

WALGREENS

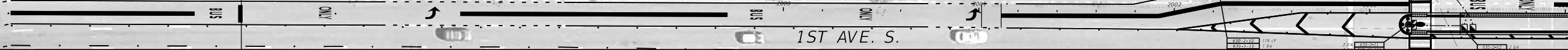
CENTRAL PLAZA

Exist. R/W

Grand Central Station

ALUMINUM POLE W/ TRANSVERSE BRACE TO BE MOUNTED ON TOP OF POLE. BRACE TO BE MOUNTED ON TOP OF POLE. BRACE TO BE MOUNTED ON TOP OF POLE.

SEE SHEETS T-70 FOR ELECTRICAL SERVICE DETAILS



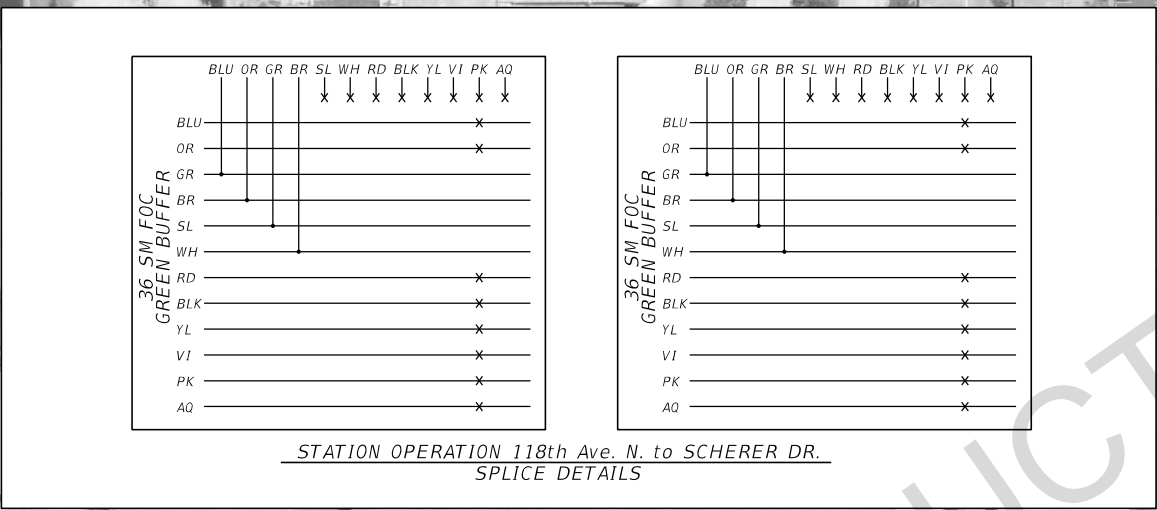
REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION

**LOCHNER**  
4550 W. CYPRESS STREET, SUITE 800  
TAMPA, FLORIDA 33607  
CERTIFICATE OF AUTHORIZATION NO. 894  
ROB R. SWANN, P.E. NO. 59517

**CENTRAL AVE. BRT**

**FIBER CONNECT FROM  
34TH AVE. S. TO  
GRAND CENTRAL STATION**

SHEET NO.  
**T-67**



633-1-111	50 LF
633-2-31	1 EA
633-2-31	1 EA
633-3-11	1 EA
633-3-13	1 EA
633-3-32	1 EA

PSTA OFFICE

633-1-111	25 LF
635-2-11	1 EA

630-2-12	800 LF
633-1-121	800 LF

633-1-111	25 LF
635-2-11	1 EA

(2 - 2" RUNS)

630-2-12	900 LF
633-1-121	900 LF

633-1-111	25 LF
635-2-11	1 EA

(2 - 2" RUNS)

630-2-12	900 LF
633-1-121	900 LF

633-1-111	25 LF
635-2-11	1 EA

EXIST. SPLICE VAULT

633-1-111	50 LF
633-2-31	1 EA
633-2-31	1 EA
633-3-11	1 EA
633-3-13	1 EA
633-3-32	1 EA

(2 - 2" RUNS)

630-2-12	600 LF
633-1-121	600 LF

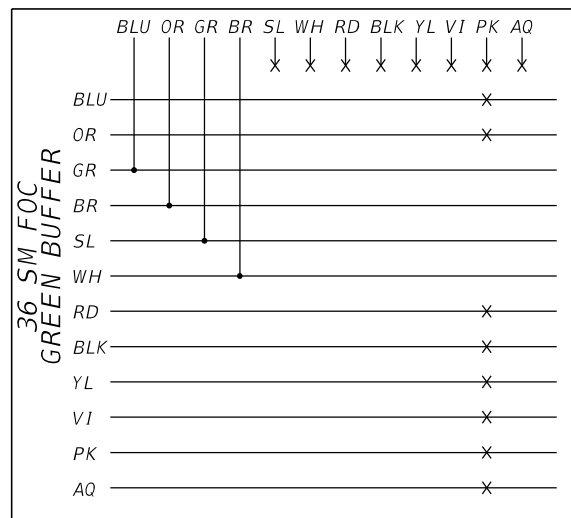
REVISIONS		DATE	DESCRIPTION
DATE	DESCRIPTION	DATE	DESCRIPTION

**LOCHNER**  
 4550 W. CYPRESS STREET, SUITE 800  
 TAMPA, FLORIDA 33607  
 CERTIFICATE OF AUTHORIZATION NO. 894  
 ROB R. SWANN, P.E. NO. 59517

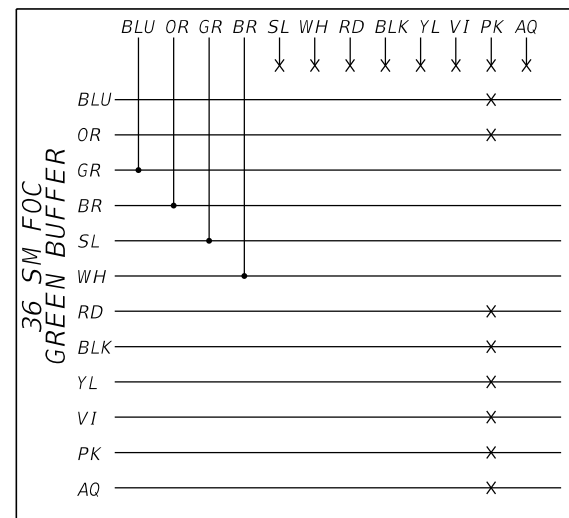


*FIBER CONNECTIO FROM  
118TH AVE. N. TO SCHERER DR.*

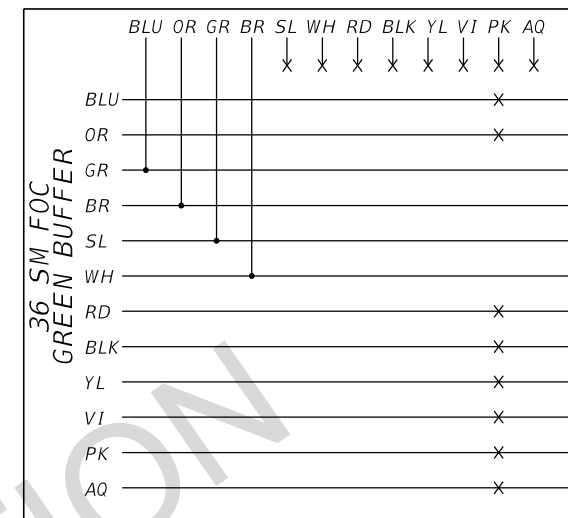
SHEET NO.  
T-68



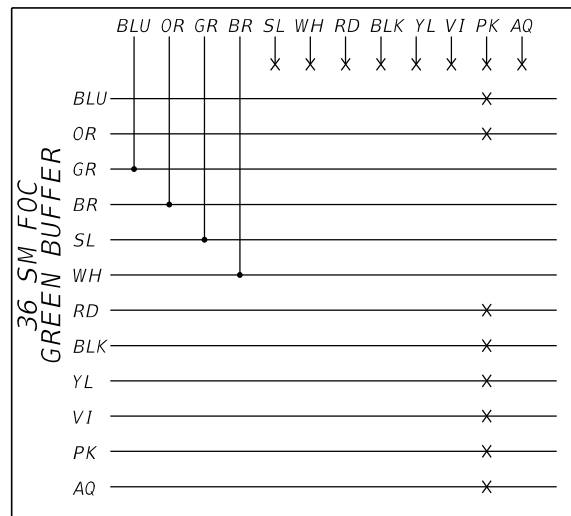
STATION OPERATION 3



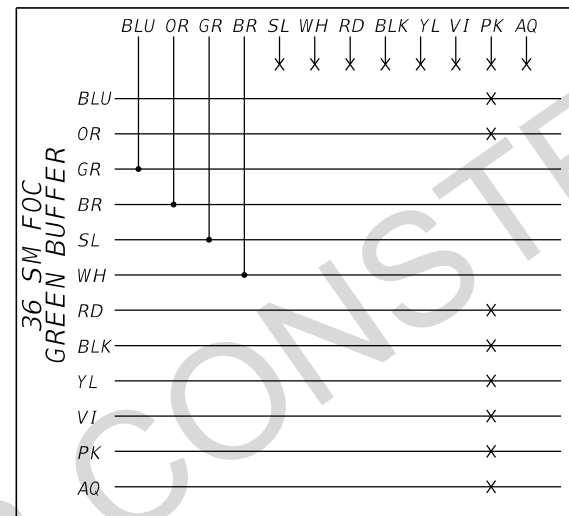
STATION OPERATION 4



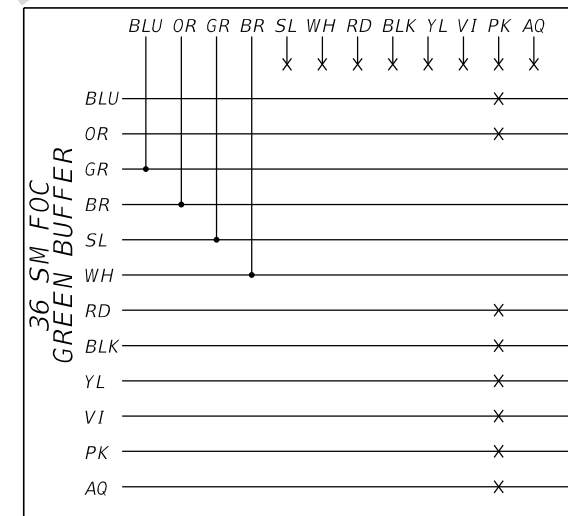
STATION OPERATION 5



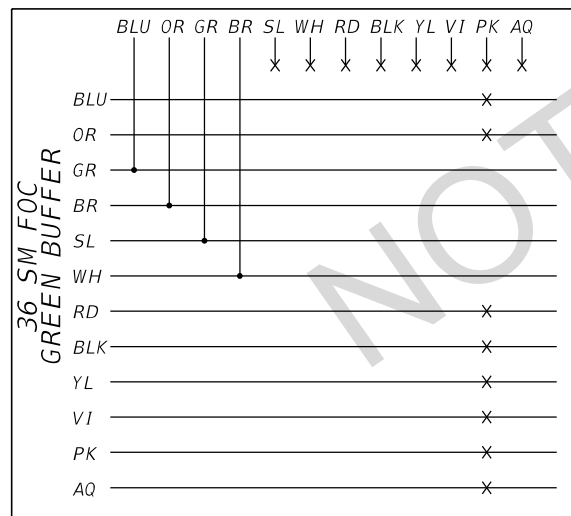
STATION OPERATION 6



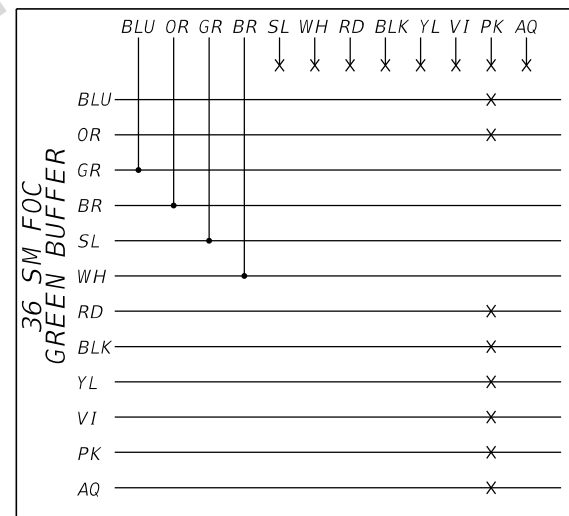
STATION OPERATION 7



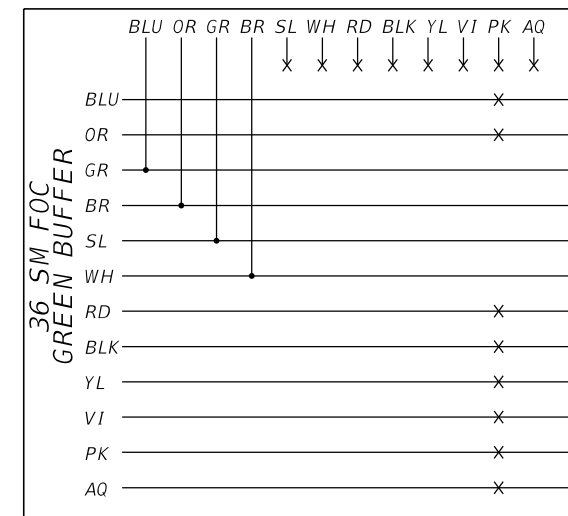
STATION OPERATION 8



STATION OPERATION 9



STATION OPERATION 10



STATION OPERATION 11

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

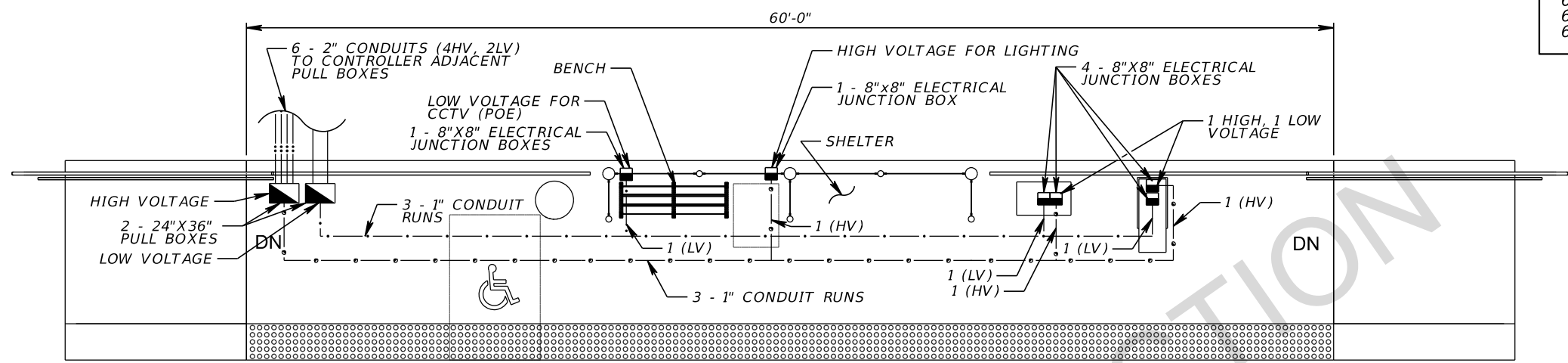
**LOCHNER**  
 4550 W. CYPRESS STREET, SUITE 800  
 TAMPA, FLORIDA 33607  
 CERTIFICATE OF AUTHORIZATION NO. 894  
 ROB R. SWANN, P.E. NO. 59517



*STATION OPS SPLICE DETAILS*

SHEET NO.  
 T-69

QUANTITIES FOR STATIONS	
(30 STATIONS)	
630-2-11	(1") - 245 LF
630-2-11	(2") - 160 LF
635-2-11	(8"X8") - 6 EA

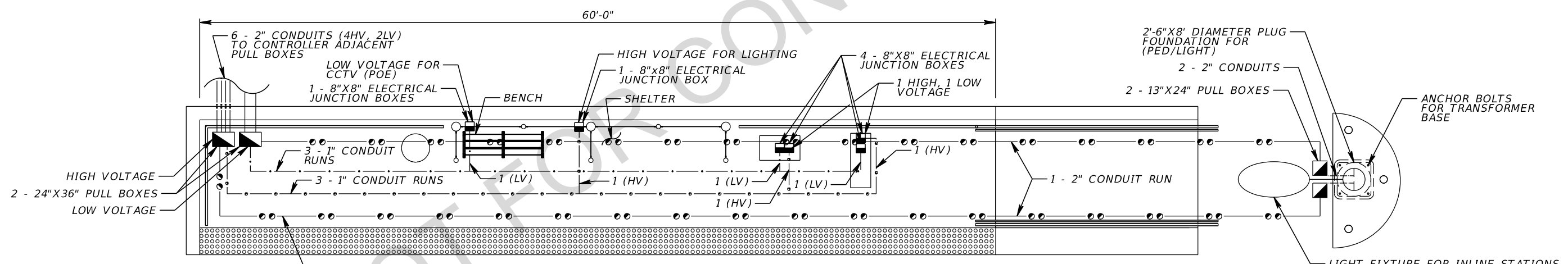


TYPICAL WIRING SCHEMATIC  
FOR ALL CURBSIDE AND  
IN-LINE STATIONS

**LEGEND**

- - - - - (LV) LOW VOLTAGE - 1" CONDUIT (PVC)
- - - - - (HV) HIGH VOLTAGE - 1" CONDUIT (PVC)

LOW VOLTAGE OR COMMUNICATION CONDUCTORS SHALL NOT OCCUPY THE SAME CONDUITS WITH HIGH VOLTAGE CONDUCTORS



TYPICAL WIRING SCHEMATIC  
FOR ALL CURBSIDE AND  
IN-LINE STATIONS


**LEGEND**

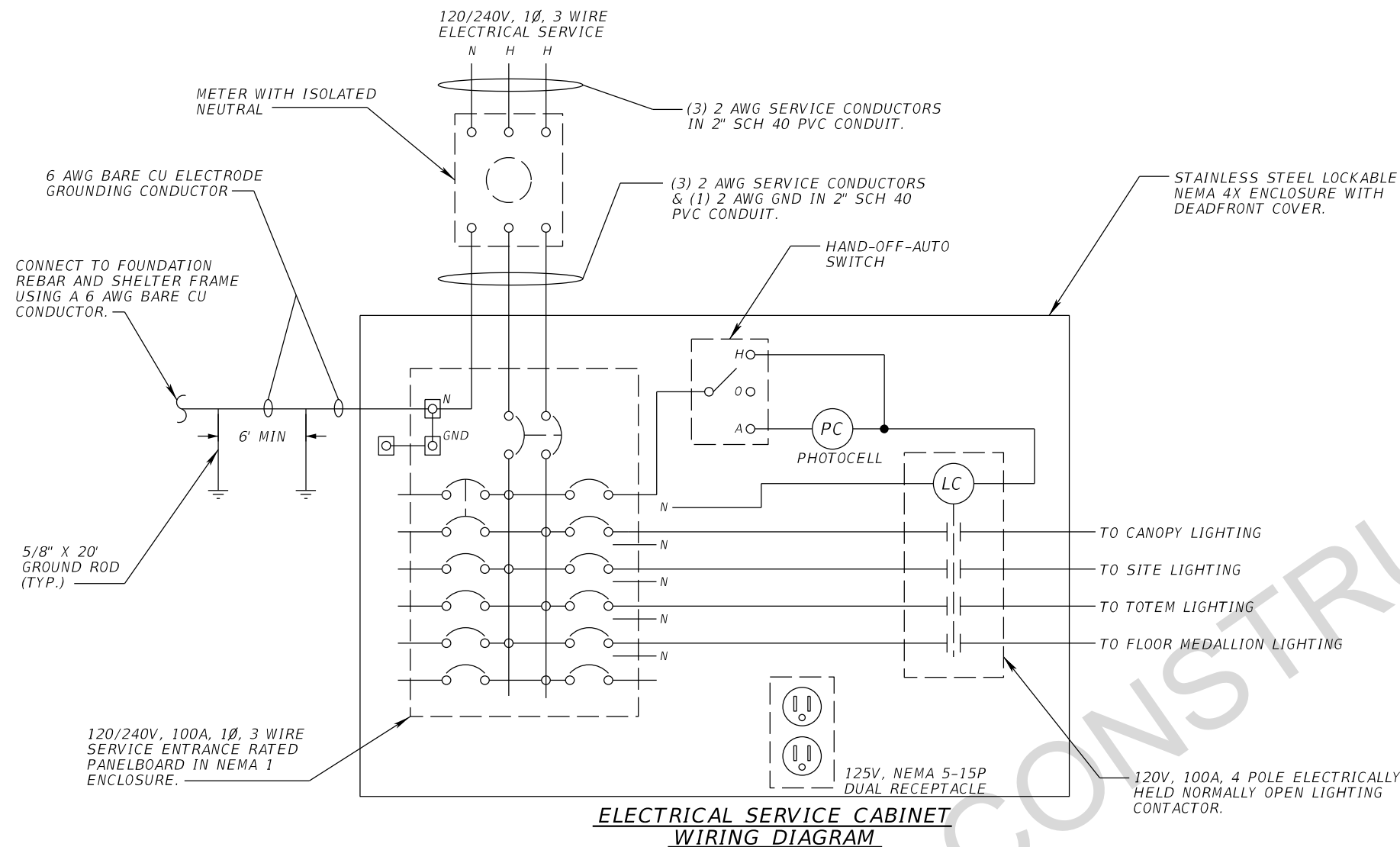
- - - - - (LV) LOW VOLTAGE - 1" CONDUIT (PVC)
- - - - - (HV) HIGH VOLTAGE - 1" CONDUIT (PVC)
- - - - - (HV) HIGH VOLTAGE - 2" CONDUIT (PVC)
- (LV) LOW VOLTAGE - 2" CONDUIT (PVC)

LOW VOLTAGE OR COMMUNICATION CONDUCTORS SHALL NOT OCCUPY THE SAME CONDUITS WITH HIGH VOLTAGE CONDUCTORS

**NOTE:**

- 1.) 6"X6" JUNCTION BOX SHALL BE INSTALLED FLOOR MOUNTED FLUSH WITH FINAL GRADE AND WEATHER PROOF WITH GASKETED COVER.
- 2.) ALL STATIONS SHALL RECEIVE CONDUIT AND JUNCTION BOXES REGARDLESS OF AMENITIES FOR FUTURE UPGRADE.
- 3.) PLACE THE CONDUIT AND JUNCTION BOXES PRIOR TO POURING CONCRETE PLATFORM.

REVISIONS				LOCHNER 4550 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607 CERTIFICATE OF AUTHORIZATION NO. 894 ROB R. SWANN, P.E. NO. 59517	 CENTRAL AVE. BRT	ELECTRICAL LAYOUT DETAILS	SHEET NO. T-70
DATE	DESCRIPTION	DATE	DESCRIPTION				



**NOTES:**


1. WIRING DIAGRAM AND PANEL SCHEDULE IS TYPICAL FOR ALL STATIONS TO ALLOW FOR FUTURE STATION UPGRADES.
2. DISTANCE FROM THE UTILITY SERVICE CONNECTION POINT TO THE SERVICE DISCONNECT CABINET SHALL NOT EXCEED A DISTANCE OF 300 FT.
3. CONTRACTOR TO CONTACT UTILITY COMPANY PRIOR TO SERVICE CONNECTION.
4. EQUIPMENT GROUNDING CONDUCTORS SHALL MATCH THE CIRCUIT WIRE SIZES SHOWN IN THE PANEL SCHEDULE.

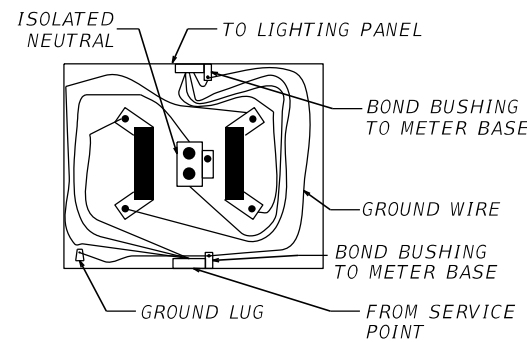
**ELECTRICAL SERVICE CABINET  
WIRING DIAGRAM**

AIC RATING: 14,000														Voltage: 120 / 240 V	
														Main CB: 100 A	
Ckt.	Description	Conduit	Wire	Trip	Poles	VA	Amps		VA	Poles	Trip	Wire	Conduit	Description	Ckt.
							A	B							
1	SPD	N/A	#14	15	1	0	0	1.7	200	1	20	#12	N/A	Lighting Controls	2
3									100	1	20	#12	1"	Canopy Lighting	4
5	Receptacle	N/A	#12	20	1	500	4.2	2.5	300	1	20	#12	1"	Site Lighting	6
7	Arrival Indicator Light	1"	#12	20	1	200			100	1	20	#12	1"	Totem Lighting	8
9	Outdoor Rated Monitor 1	1"	#12	20	1	500	4.2	4.2	500	1	20	#12	1"	2 LCD Monitors	10
11	Comm. Cabinet	1"	#8	30	1	2000			200	1	20	#12	1"	Future Ticket Vending Machine	12
13	Spare	1"		20	1		0	0.0		1	20			Spare	14
15	Spare													Spare	16
17	Space						0	0						Space	18
19	Space													Space	20

Total Phase Amps (A): 16.7 21.7  
 Total Connected Load (VA): 4600  
 Total Demand 1.25% (VA): 5750  
 Total Service Amps (A): 24.0

**ELECTRICAL PANEL SCHEDULE**

REVISIONS				LOCHNER 4550 W. CYPRESS STREET, SUITE 800 TAMPA, FLORIDA 33607 CERTIFICATE OF AUTHORIZATION NO. 894 ALEJANDRO GARI, P.E. NO. 79281	 <b>CENTRAL AVE. BRT</b>	LOAD CENTER DETAILS	SHEET NO. T-71
DATE	DESCRIPTION	DATE	DESCRIPTION				



**METER SOCKET DETAIL**  
NTS

POLE PLATE WITH STAINLESS STEEL BANDS FOR MOUNTING COMMUNICATIONS CABINET.

AT TOP OF POLE THE GROUNDING PIG TAIL MUST BE DETACHED

PHOTOCELL SPLICE AND PHOTOCELL WIRE SHALL BE TERMINAL SLEEVE SPLICE

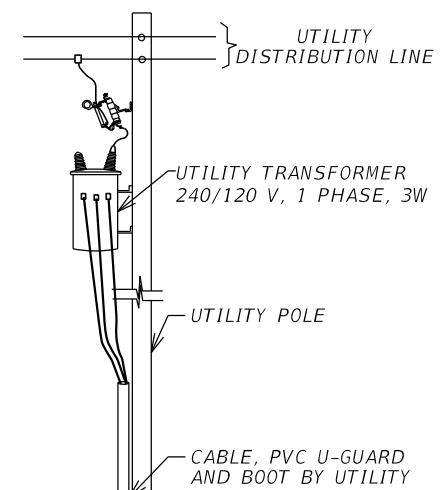
PRESTRESSED CONCRETE POLE TYPE P-II 12'-0" LONG

SERVICE LOAD CENTER IN NEMA 4X ENCLOSURE MAXIMUM SIZE: 42" X 42" X 10" (FOR NUMBER AND SIZE OF BREAKER SEE PANEL SCHEDULE).

STATION COMMUNICATION CABINET. SEE COMMUNICATION SHEETS FOR DETAILS.

TERMINATE CONDUIT WITH INSULATED GROUNDING BUSHING WITH SOLDERLESS LUGS

PIGGY BACK CABINET



BRANCH CKT'S IN 2" RIGID GALVANIZED STEEL CONDUIT (FOR NUMBER OF BRANCH CKT'S REFER PANEL SCHEDULE)

2#8 & 1#8 GND. IN 1" RIGID GALVANIZED STEEL CONDUIT FOR COMM CABINET POWER.

EXIST. BARE WIRE #6 INHERENT TO THE POLE TO BE CONNECTED TO THE GND ROD

METER CAN BY CONTRACTOR, METER BY UTILITY METER TO BE ORIENTED ON SIDE OF CONCRETE POLE SO WHEN READING IT YOU ARE FACING ONCOMING TRAFFIC MAX. 5'-6" ABOVE GRADE

#6 AWG INSULATED COPPER GROUND WIRE IN 3/4" RIGID GALVANIZED STEEL CONDUIT.

TERMINATE RIGID STEEL CONDUIT AT PULL BOX

PULL BOX (25" X 15 1/2" X 12") COVER MARKED "ELECTRIC"

PULL BOX AND GROUND ROD INSTALLED ON STATION CONCRETE PAD.

PULL BOX (25" X 15 1/2" X 12") COVER MARKED "ELECTRIC"

CONDUIT CLAMP (TYP.)

3#2 IN 2" RIGID GALVANIZED STEEL CONDUIT

CONCRETE APRON

CONNECT TO FOUNDATION REBAR AND SHELTER FRAME USING A 6 AWG BARE CU CONDUCTOR

EXOTHERMICAL THERMOWELD CONNECTION

PULL BOX (25" X 15 1/2" X 12") COVER MARKED "ITS COMM"

3" WARNING TAPE

1'-0" BED OF PEAROCK OR CRUSHED STONE FOR DRAINAGE

6" MIN. CONDUIT STUB UP

SERVICE ATTACHMENT BY UTILITY

PHOTOCELL

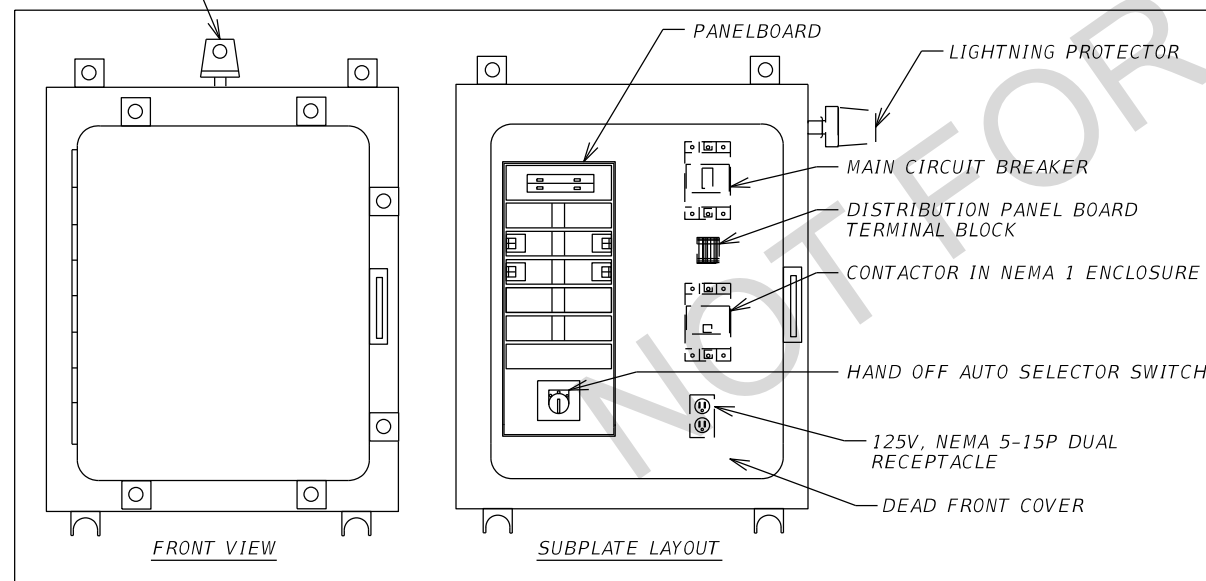
1#6 GRD. IN 2" PVC CONDUIT

5/8" DIA. X 40'-0" GRD. ROD

TRANSITION FITTING FROM RIGID STEEL TO PVC AFTER 90° RIGID STEEL ELBOW

**SERVICE POINT DETAIL**  
NTS

INSTALL SERVICE SUPPLEMENTAL GROUND ROD AND PULL BOX ONLY IF REQUIRED TO MEET NEC MAXIMUM RESISTANCE REQUIREMENT.



**LIGHTING CONTROL CENTER**  
NTS

**NOTES:**

1. ALL WIRES EXTERNAL TO CONTROL CABINET TO BE TERMINATED TO A TERMINAL.
2. PROVIDE SIGNED AND SEALED STRUCTURAL PLANS AND CALCULATIONS FOR THE PRESTRESSED CONCRETE POLE.
3. BID ITEM 715-7-11 INCLUDES THE COST OF AN ALUMINUM METER APPROVED BY
4. FPL WITH A GROUND LUG, BYPASS MECHANISM WITH LEVER AND ISOLATED NEUTRAL.
5. STATION TOTEM SHALL HAVE A GROUND ROD INSTALLED AND CONNECTED TO THE EQUIPMENT GROUNDING CONDUCTOR.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

**LOCHNER**  
4550 W. CYPRESS STREET, SUITE 800  
TAMPA, FLORIDA 33607  
CERTIFICATE OF AUTHORIZATION NO. 894  
ALEJANDRO GARI, P.E. NO. 79281



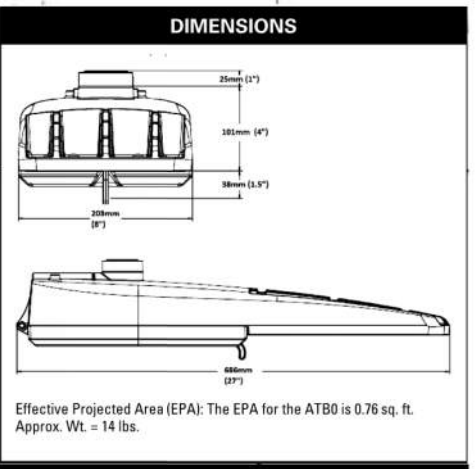
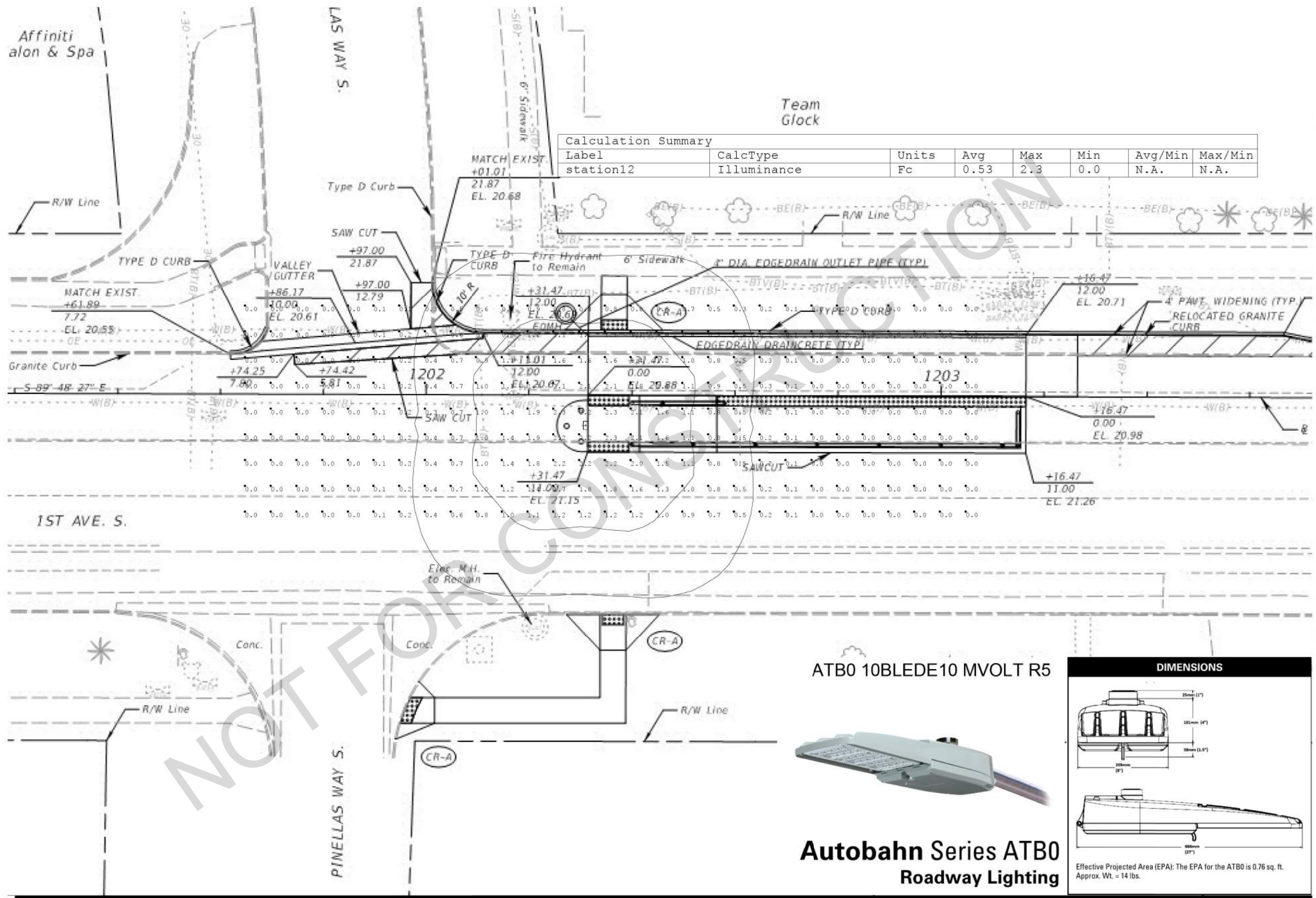
**CENTRAL AVE. BRT**

**ELECTRICAL SERVICE  
DETAILS**

SHEET NO.

T-72





REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

**LOCHNER**  
4550 W. CYPRESS STREET, SUITE 800  
TAMPA, FLORIDA 33607  
CERTIFICATE OF AUTHORIZATION NO. 894  
ROB R. SWANN, P.E. NO. 59517



*LIGHTING FIXTURE DETAILS*

SHEET NO.  
T-73