

TOWN OF HIGHLAND BEACH

CONTRACT PLANS

KCI PROJECT ID 451902579

PALM BEACH COUNTY (93060)

STATE ROAD NO. A1A

SIGNING AND PAVEMENT MARKING PLANS

INDEX OF SIGNING AND PAVEMENT MARKING PLANS

SHEET NO.	SHEET DESCRIPTION
S-1	KEY SHEET
S-2	GENERAL NOTES & DETAILS
S-3 TO S-10	SIGNING AND PAVEMENT MARKING PLAN

ADDITIONAL ATTACHMENTS:

SHEET NO.	SHEET DESCRIPTION
S-11	MANUFACTURER DETAILS

GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY 2019-20 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

Standard Plans for Road Construction and associated IRs are available at the following website: <http://www.fdot.gov/design/standardplans>

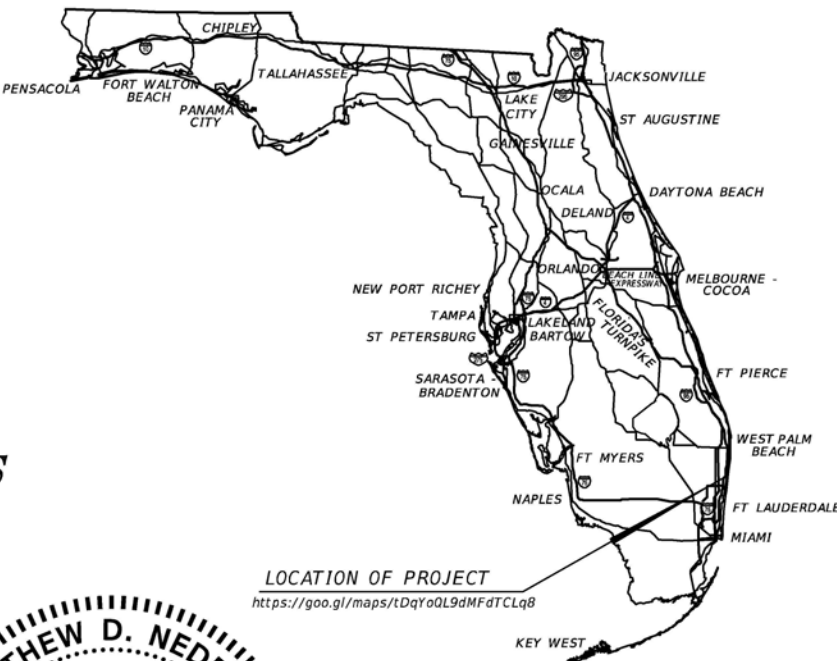
APPLICABLE IRs: IR102-600, IR522-001, IR522-002, IR665-001

GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, January 2019 Standard Specifications for Road and Bridge Construction at the following website: <http://www.dot.state.fl.us/programmanagement/Implemented/SpecBooks>

Permit No. 2019-C-496-00002-93060

Speed Limit. 35 mph

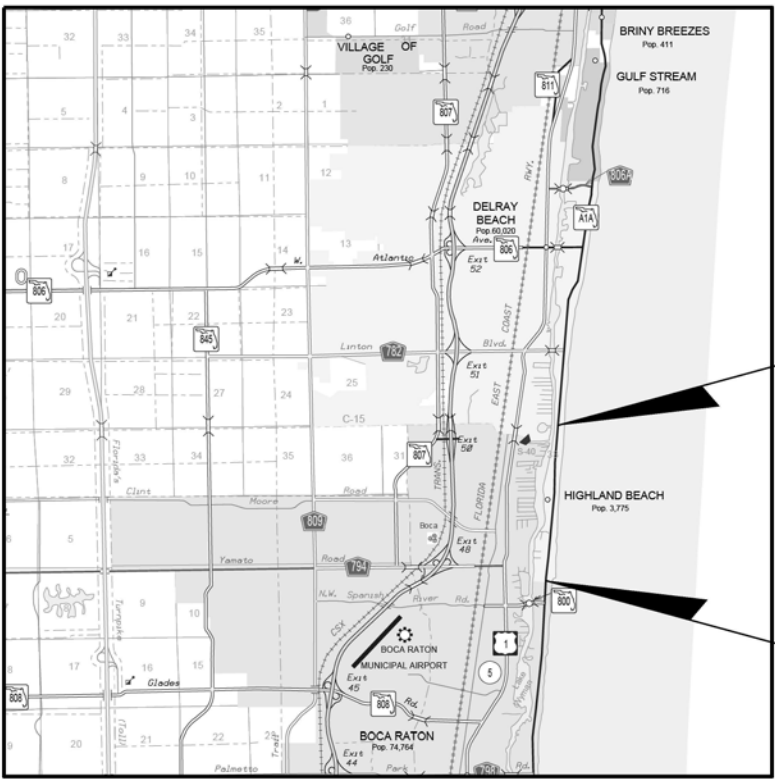


LOCATION OF PROJECT
<https://goo.gl/maps/tDqYo0L9dMFdCLq8>



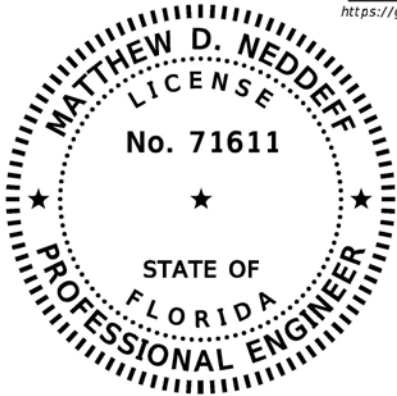
T-45-S
T-46-S

T-46-S
T-47-S



T-45-S
T-46-S

T-46-S
T-47-S



END PROJECT
M.P. 7.127

BEGIN PROJECT
M.P. 4.887

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:

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

SIGNING AND PAVEMENT MARKING PLANS
ENGINEER OF RECORD:

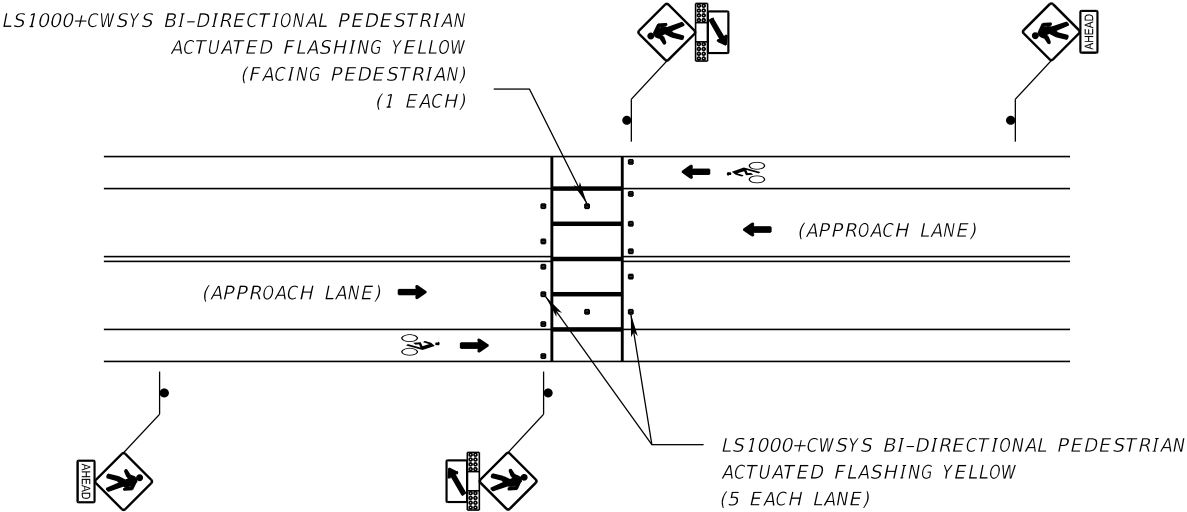
MATTHEW D. NEDDEFF, P.E. No.: 71611
KCI TECHNOLOGIES INC.
6500 N. ANDREWS AVENUE
FT. LAUDERDALE, FL 33309
(954) 776-1616
CONTRACT NO.:
VENDOR NO. 52-1604386
CERTIFICATION OF AUTHORIZATION NO. 4898

FDOT PROJECT MANAGER:

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
		S-1

IN-ROAD LIGHTS DETAIL

654-1-20



1. IN-ROAD LIGHTS SHALL BE WIRED TO BE ACTIVATED BY SAME PUSH BUTTON AS RRFB ASSEMBLY.

GENERAL NOTES

- MILLINGS NEED TO BE TRANSPORTED TO PB OPERATIONS AT NO EXPENSE TO THE DEPARTMENT; CONCRETE SHALL BE CLASS 1 NS 2500 PSI MINIMUM, FOR SIDEWALKS; EXISTING FLASHING BEACON(S) AND SIGNAGE SHALL BE CONSIDERED SALVAGEABLE MATERIAL AND RETURN TO THE PB OPERATIONS YARD.
- PERMITTEE WILL COORDINATE (I.E. PRE-CONSTRUCTION MEETINGS, INSPECTIONS, FINAL ACCEPTANCE OF WORK, ETC.) WITH DARREL HUMBLE OF FERROVIAL SERVICES @ 954-415-9639 OR EMAIL: DARREL.HUMBLE@FERROVIALSERVICES.COM COORDINATION WILL INCLUDE A PRE-CONSTRUCTION MEETING. CERTIFICATION ACCEPTANCE AND FINAL APPROVAL IS CONTINGENT UPON CONFORMITY OF ALL WORK COMPLETED ACCORDING TO THIS PERMIT AND THE RESTORATION OF THE RIGHT OF WAY.
- THIS PERMIT IS VALID ONLY FOR WORK PROPOSED WITHIN THE D.O.T. RIGHT-OF-WAY. CERTIFICATION ACCEPTANCE AND FINAL APPROVAL IS CONTINGENT UPON CONFORMITY OF ALL WORK COMPLETED ACCORDING TO THIS PERMIT AND THE RESTORATION OF THE RIGHT OF WAY.
- ALL MATERIALS AND CONSTRUCTION WITHIN THE FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN (F.D.O.T.) RIGHT-OF-WAY SHALL CONFORM TO THE "LATEST VERSION OF FDOT STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION AND LATEST VERSION OF THE STANDARD SPECIFICATIONS FOR THE ROAD AND BRIDGE CONSTRUCTION.
- ALL MAINTENANCE OF TRAFFIC M.O.T. FOR THIS PROJECT WILL BE IN COMPLIANCE WITH THE DEPARTMENTS CURRENT EDITION OF THE FDOT STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION IDICES, (102-600 SERIES) AND THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). THE OPERATIONS ENGINEER OR HIS DESIGNEE RESERVES THE RIGHT TO DIRECT THE REMOVAL/RELOCATION/MODIFICATION OF ANY TRAFFIC DEVICES(S) AT THE PERMITTEE'S SOLE EXPENSE. SPECIAL ATTENTION WILL BE GIVEN TO INDICES 102-611, 102-612, 102-613, AND 102-660.
- ALL THERMOPLASTIC TRAFFIC STRIPES, MARKINGS AND SIGNAGE WILL BE INSTALLED PER THE FDOT STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION.
- IT IS THE PERMITTEE'S RESPONSIBILITY TO OBTAIN FINAL ACCEPTANCE OF PERMITTED WORK (COMPLETED) AND THE RESTORATION OF THE RIGHT-OF-WAY FROM THE F.D.O.T. PRIOR TO USAGE.
- PERMITTEE WILL RESTORE THE RIGHT OF WAY AS A MINIMUM, TO ITS ORIGINAL CONDITION OR BETTER IN ACCORDANCE WITH F.D.O.T.'S LATEST STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OR AS DIRECTED BY THE RESIDENT OPERATIONS ENGINEER.
- DURING THE REMOVAL/INSTALLATION OF ANY CURB AND GUTTER SECTION, THE PERMETTEE WILL BE RESPONSABLE FOR ANY DAMAGE DONE TO THE ABUTTING ASPHALT. THE DAMAGED ASPHALT REPAIR WILL BE IN ACCORDANCE WITH THE CURRENT SPECIFICATIONS AND/OR AS DIRECTED BY THE RESIDENT OPERATIONS ENGINEER.
- ALL PUBLIC SIDEWALK CURB RAMPS WILL MEET THE FDOT STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION (CURRENT EDITION) INDEX NO. 522-002 CURB/RAMP INSPECTIONS REQUIRED PRIOR TO INSTALLATION OF CONCRETE.
- REMOVAL/INSTALLATION OF SIDEWALK WILL BE IN ACCORDANCE WITH STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION INDEX 522-001.
- SODDED AREAS WILL BE IN ACCORDANCE WITH FDOT STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION INDEX 570-010 AND SECTIONS 162, 981, 982, 983, 987 OF THE F.D.O.T.'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION. ALL DISTURBED AREAS WILL BE SODDED WITHIN ONE (1) WEEK OF INSTALLATION OF SAID PERMITTED WORK.
- RESTRICTED HOURS OF OPERATION FOR LANE CLOSURES WILL BE FROM 9:00 AM TO 4:00 PM, (MONDAY-FRIDAY), UNLESS OTHERWISE APPROVED BY THE OPERATIONS ENGINEER, OR DESIGNEE. MOT SHALL BE PICKED UP BY 4:00 PM AND NOT START BEFORE 9:00 AM.
- PRIOR TO ANY WORK REQUIRING LANE CLOSURES, MOBILE OPERATIONS OR TRAFFIC PACING OPERATIONS, THE CONTRACTOR OR PERMITTEE SHALL SUBMIT A REQUEST TO THE DEPARTMENT THAT INCLUDES THE TIME, LOCATION, AND DESCRIPTION OF WORK BEIGN PERFORMED. THE LANE CLOSURE REQUEST SHALL BE SUBMITTED TO THE DEPARTMENT A MINIMUM OF TWO WEEKS PRIOR TO THE PROPOSED CLOSURE DATE AND MUST BE APPROVED BY THE DEPARTMENT BEFORE WORK REQUIRING THE CLOSURE MAY BEGIN WITHIN THE FDOT RIGHT OF WAY. URL ADDRESS: [HTTPS://LCIS.DOT.STATE.FLUS](https://lcis.dot.state.fl.us)
- PERMIT IS VALID FOR ONE YEAR FROM DATE OF ISSUE.
- PERMITTEE WILL PROVIDE THE F.D.O.T. WITH CERTIFIED "AS-BUILT" PLANS PRIOR TO FINAL ACCEPTANCE OF THE PERMITTED WORK.

PAY ITEM NOTES

- 654-1-20: THE IN-ROADWAY LIGHT ASSEMBLY MUST BE HOUSED INSIDE A COMPOSITE CUP AND CONNECTED VIA EMBEDDED FLEXIBLE CONDUIT BETWEEN THE UNITS AND CABINET. THE INSIDE MODULE MUST BE MADE OF A SEPARATE POLYCARBONATE REPLACEABLE UNIT. THE UNITS MUST BE SHAPED FOR SELF CLEANING OF IN-ROAD LIGHT AREA.
- EARTHWORK NEEDED TO COMPLETE CONSTRUCTION, IS CONSIDERED INCIDENTAL TO CONSTRUCTION AND COST SHOULD BE INCLUDED IN THE OTHER PAY ITEMS.
- COST OF REMOVAL OF EXISTING PAVER BLOCKS AND SIDEWALK, ASPHALT OR CONCRETE, IS INCLUDED IN THE PROPOSED WORK.

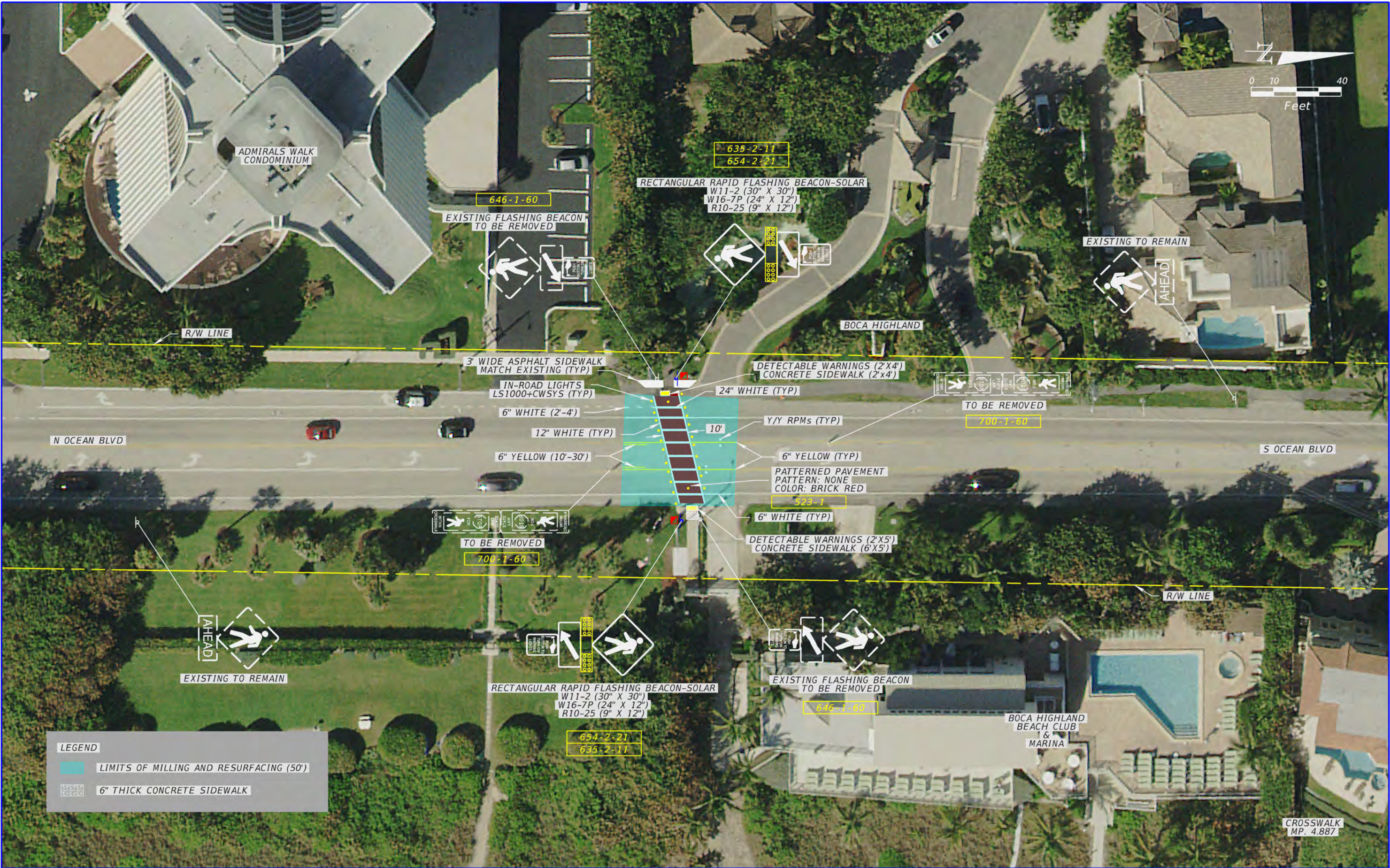
PAVEMENT DESIGN

- MILLING AND RESURFACING:
- MILLING EXISTING ASPHALT PAVEMENT (1.5")
 - FRICTION COURSE, TRAFFIC C, FC-12.5, PG 76-22 (1.5")

- ASPHALT SIDEWALK:
- OPTIONAL BASE, BASE GROUP 1
 - MISCELLANEOUS ASPHALT PAVEMENT (2")

REVISIONS				ENGINEER OF RECORD: MATTHEW D. NEDDEFF, P.E. #71611 KCI TECHNOLOGIES, INC. 6500 NORTH ANDREWS AVENUE FORT LAUDERDALE, FLORIDA 33309-2132 (954) 776-1616 CERTIFICATE OF AUTHORIZATION NO. 4898	TOWN OF HIGHLAND BEACH			GENERAL NOTES & DETAILS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	KCI PROJECT ID		S-2
					A1A	PALM BEACH	451902579		

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



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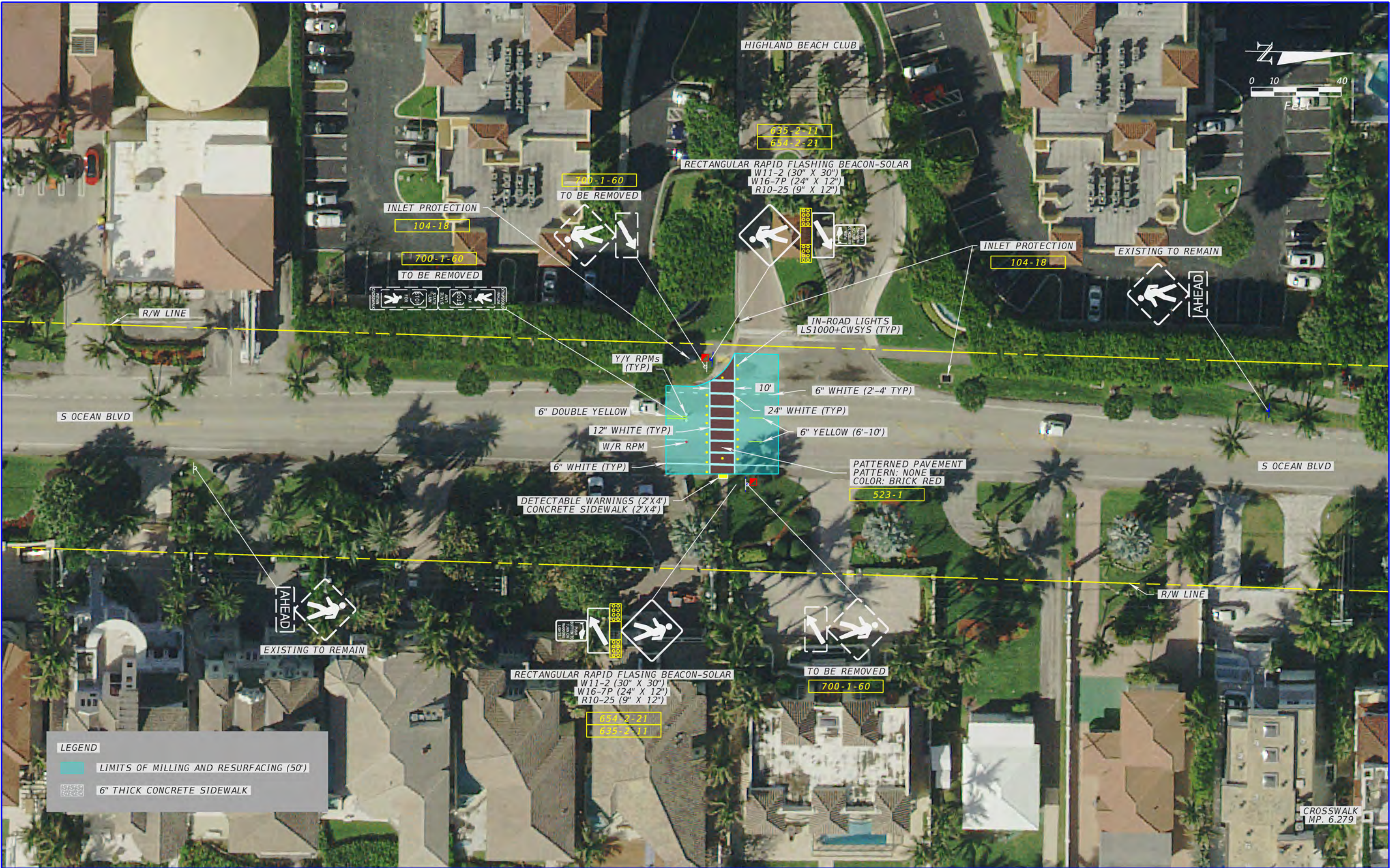
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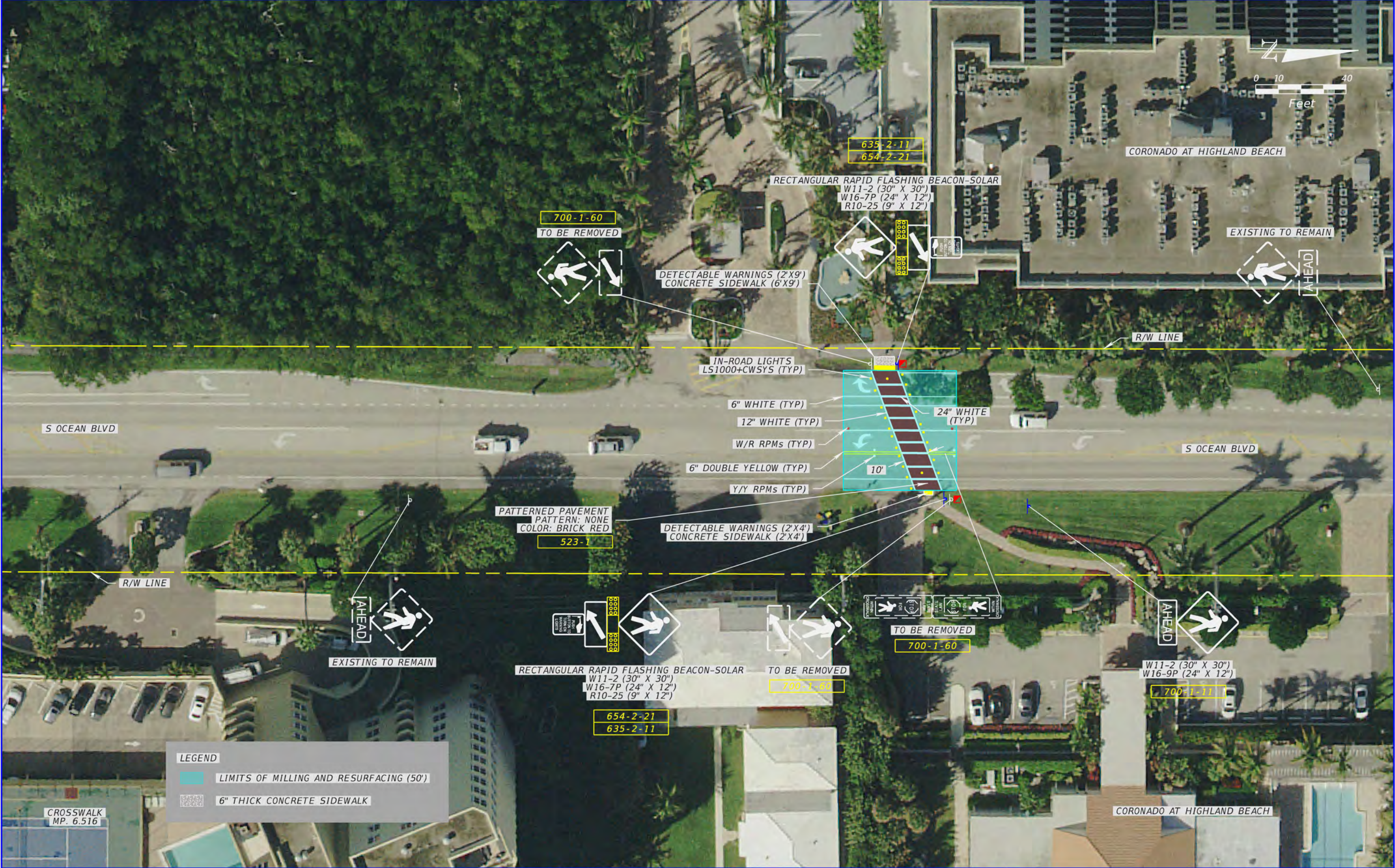
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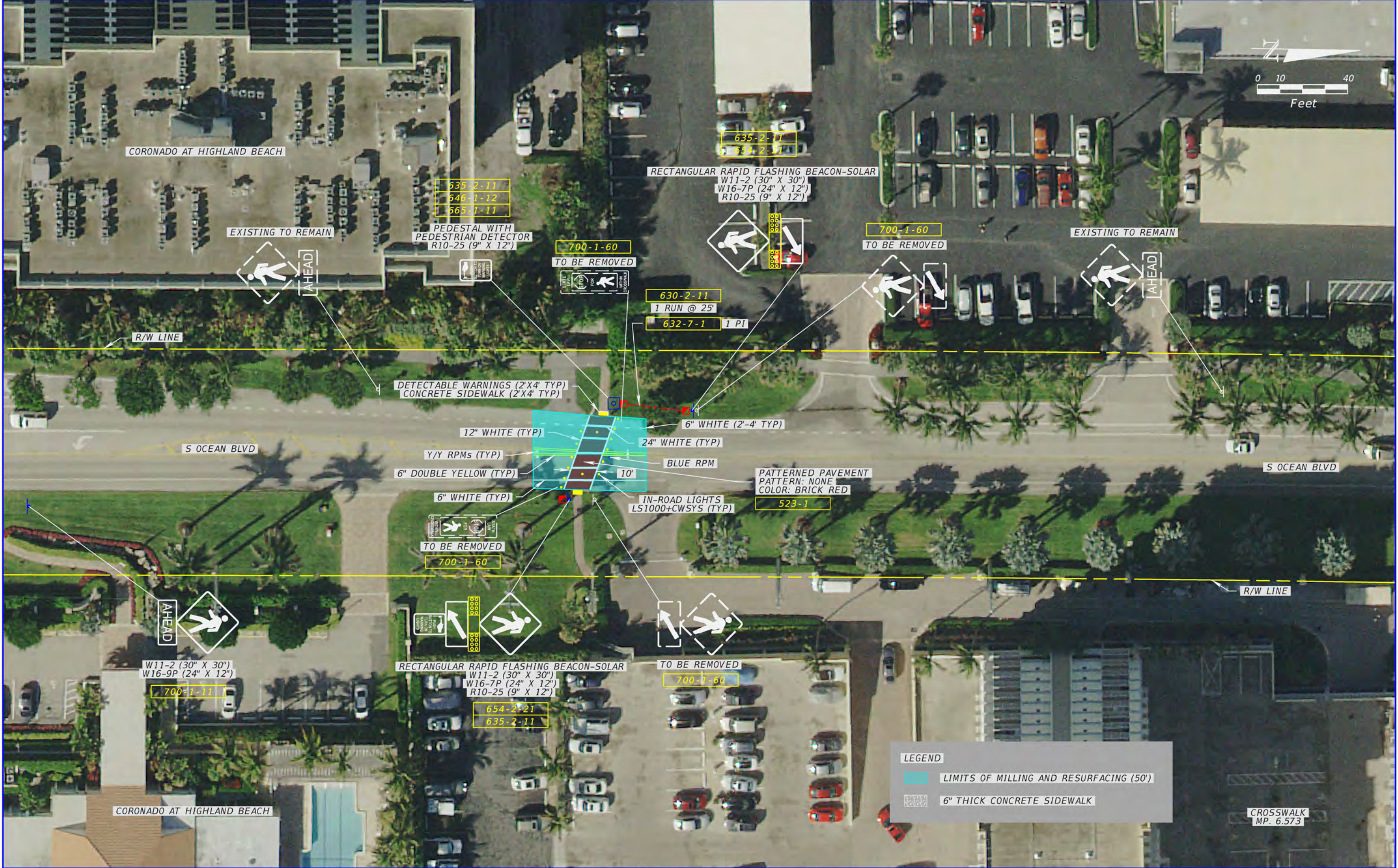
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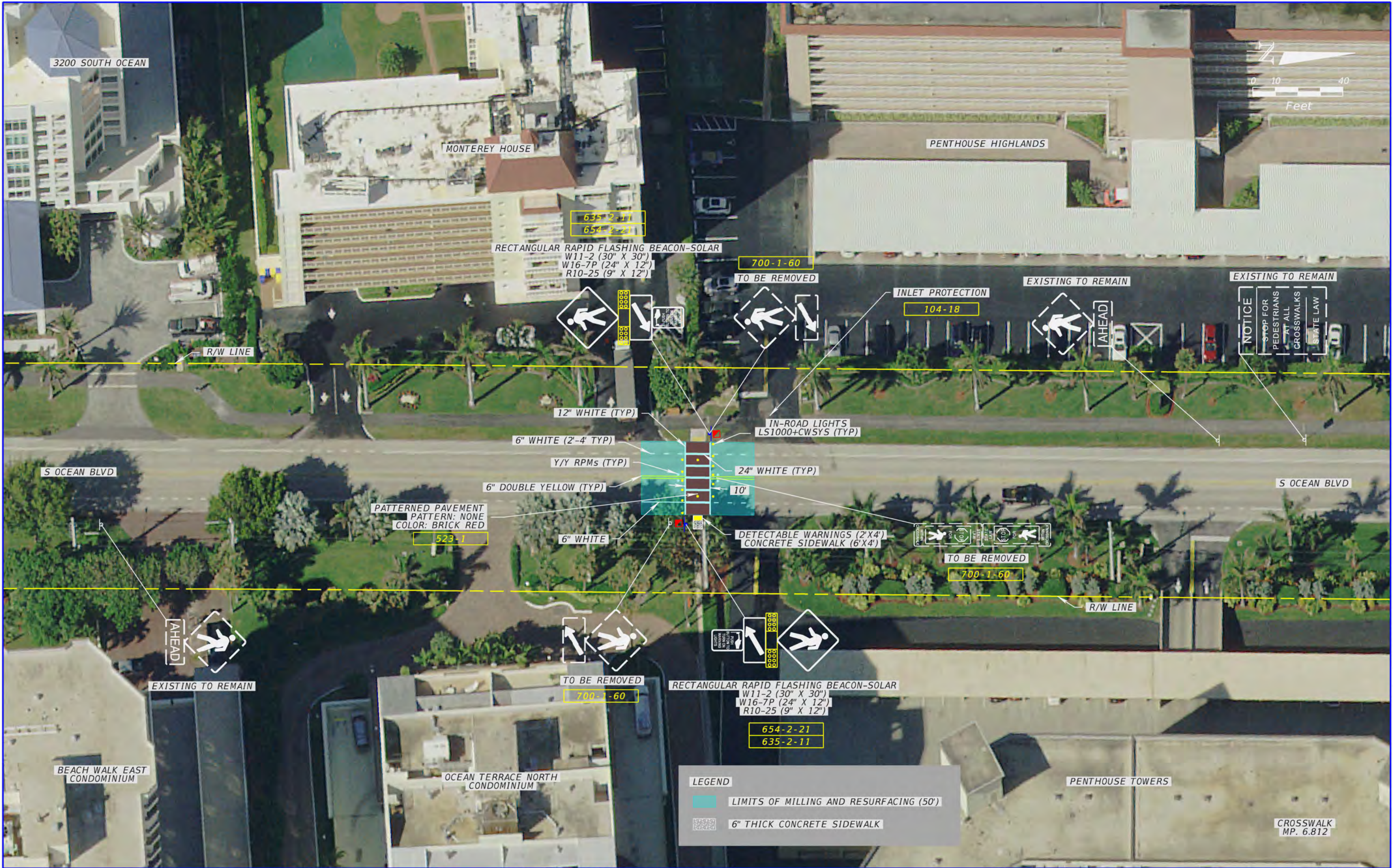
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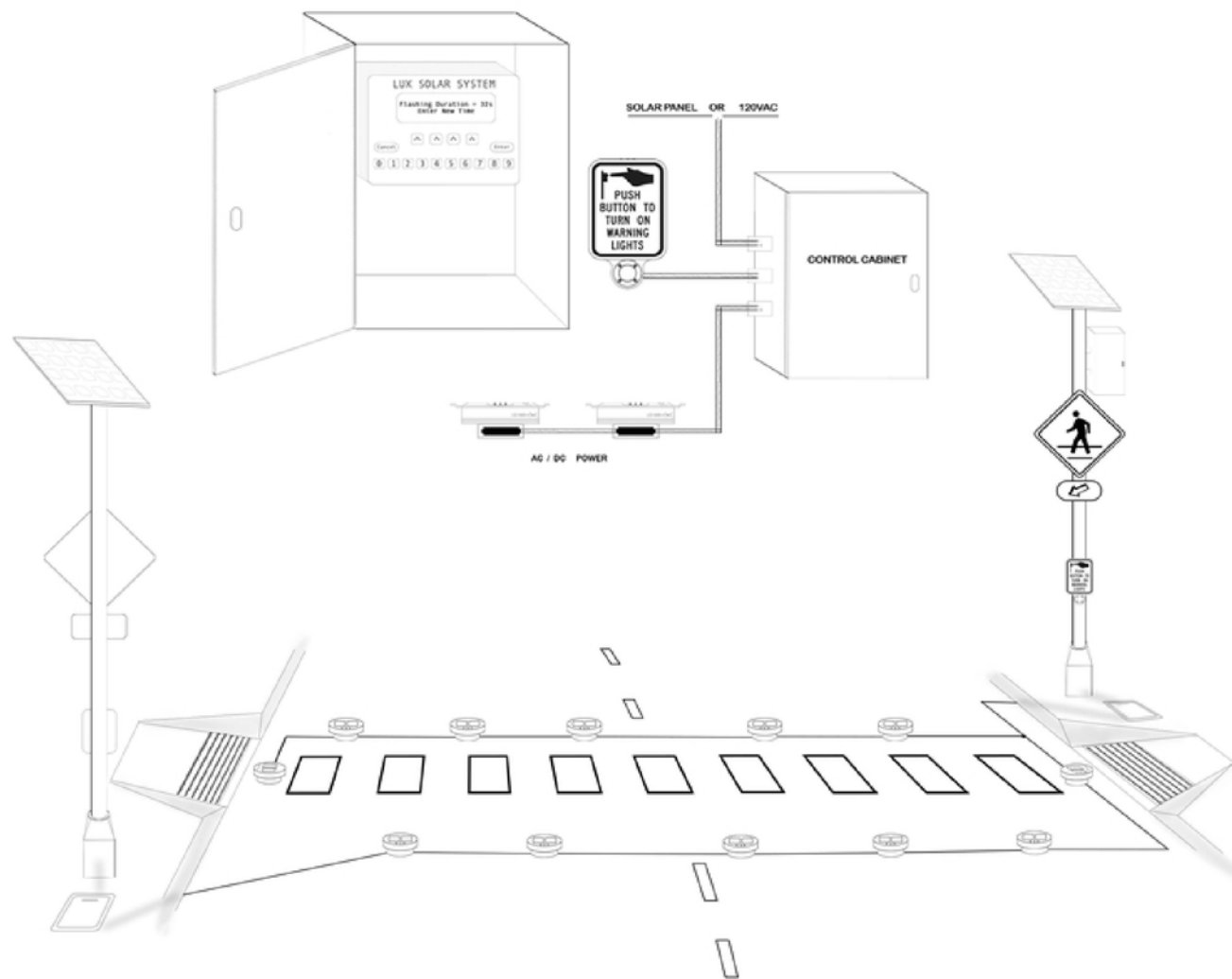
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WIRED AC/DC SOLAR POWER

PED CROSSWALK SYSTEM

LS1000+CWSYS



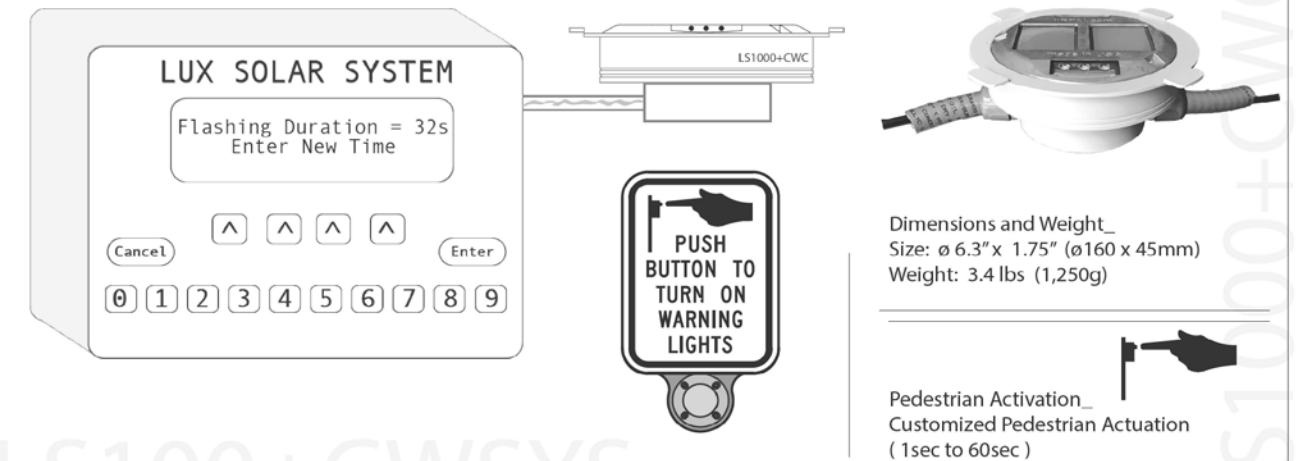
MIDBLOCK PED CROSSWALK SYSTEM

In-Road Wired AC/DC Solar Powered LED Lights System

MADE IN
USA

PATENT PENDING

FLASHING YELLOW



Dimensions and Weight_
Size: ø 6.3" x 1.75" (ø160 x 45mm)
Weight: 3.4 lbs (1,250g)

Pedestrian Activation_
Customized Pedestrian Actuation
(1sec to 60sec)

Physical Properties :: LS100+CWSYS
Environmental NEMA TS2
Operating Temperature -40°C to +74°C
Operating Cycles Continuous
FCC Title 47-B-15

Physical Properties :: LS1000+CWC
Compressive Strength 120,000 lbs (535,000 N)
Water Proof IP68
Operating Temperature -40°C to +74°C
Operating Cycles Continuous
FCC Title 47-B-15

Lighting Properties :: LS1000+CWC

Model	Colors	Typical Light Brightness (mcd)	
LS1000+CWSYS	Yellow	Day / Night	225,000
Type: One Flash (1/sec) Bi-Directional			

Basic Components

Power	AC / DC	2 Watts
LED	LED Size LED Brightness LED Quantities	3.2mm x 2.7mm 225 Candela 3PCS / Bi-Directional
LED Light Source	Yellow	595 nm
Aluminum Die Cast Housing	Aluminum A383 Die Cast with Polycarbonate Lenses & Composite Cup	
Electronic Controller	MAIN PCB uses Ultra Low Power Microprocessor control to provide a steady flash rate over the temperature range.	

Lux Solar Inc. :: 10891 La Reina Rd Suite 100 Delray Beach FL 33446 USA f 561 498 2960 f 561 498 2305
www.iirpm.com

FDOT APL# 654-002-005

www.iirpm.com

Lux Solar Inc. :: 10891 La Reina Rd Suite 100 Delray Beach FL 33446 USA f 561 498 2960 f 561 498 2305

REVISIONS				TOWN OF HIGHLAND BEACH			MANUFACTURER DETAILS	SHEET NO. S-11
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