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BAYWALK PLAZA (SOUTH SIDE ONLY) CONSTRUCTION PLANS FOR NORTH BAY VILLAGE

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VICINITY MAP
NTS

No.	REVISIONS	DATE	BY

PROJECT TEAM

OWNER
 NORTH BAY VILLAGE
 1666 KENNEDY CAUSEWAY, 3RD FLOOR
 NORTH BAY VILLAGE, FLORIDA 33141
 CONTACT: RODNEY CARRERO-SANTANA,
 DIRECTOR

CIVIL ENGINEER
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 KIMLEY-HORN
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 CONTACT: GEORGE PUIG, P.L.A.

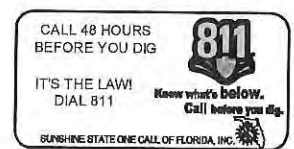
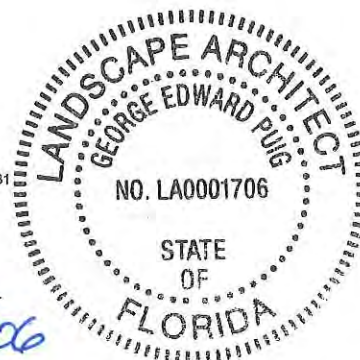
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 WEST PALM BEACH, FL 33411
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100% CONTRACT DOCUMENTS SUBMITTAL SET
05/09/16

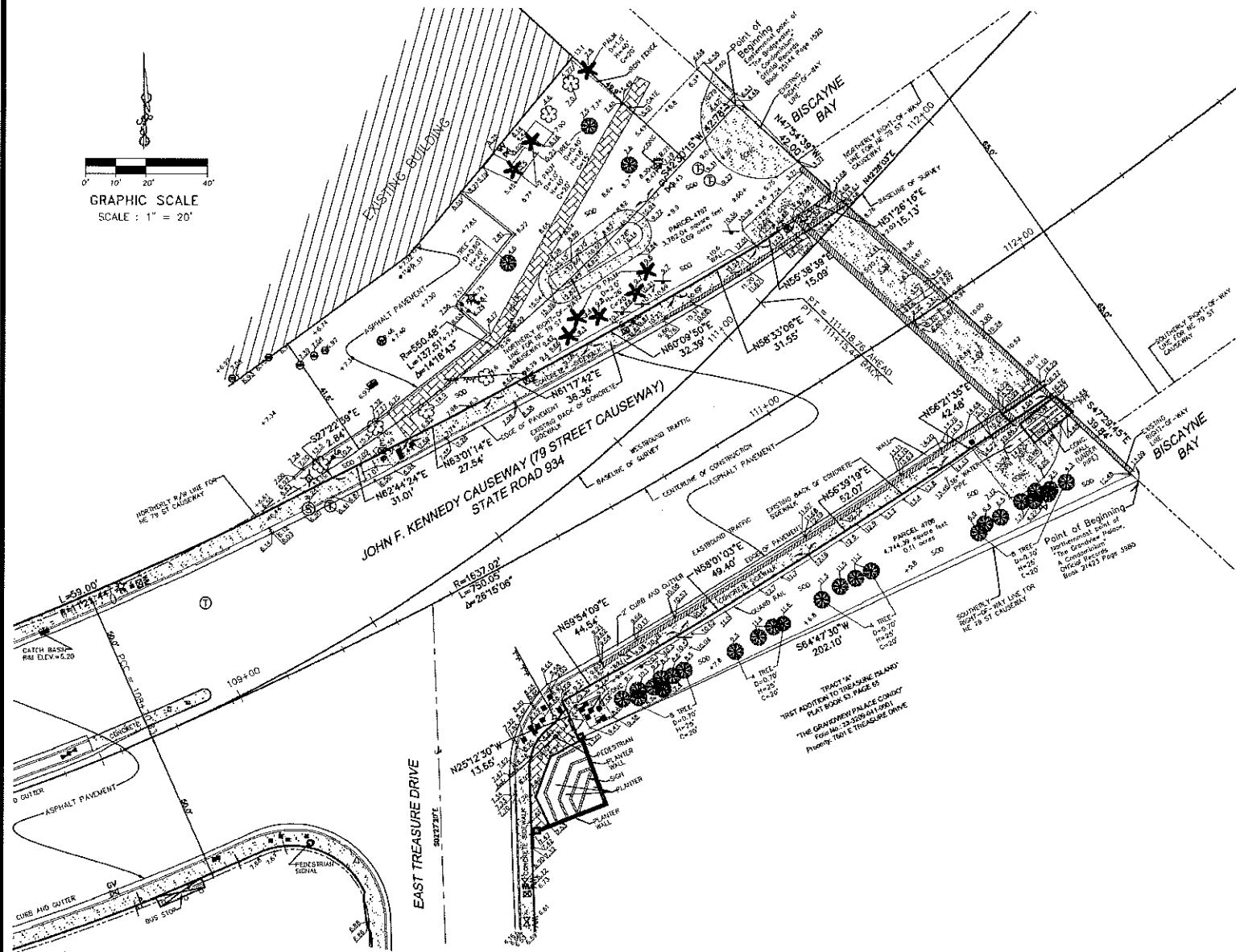
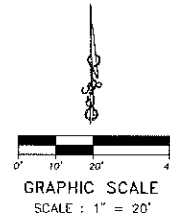
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 GEORGE PUIG, PLA
 DATE: 5/9/16 LIC. NO.: 0001706



THE SITE CONSTRUCTION STAKEOUT SHALL BE PERFORMED UNDER THE DIRECTION OF A FLORIDA REGISTERED SURVEYOR. AUTOCAD FILES WILL BE FURNISHED TO AID IN THE SITE CONSTRUCTION STAKEOUT. ANY DISCREPANCIES FOUND BETWEEN AUTOCAD FILES AND SITE CONSTRUCTION PLANS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR CLARIFICATION PRIOR TO THAT STAKEOUT.

MAP OF BOUNDARY AND TOPOGRAPHIC SURVEY



SURVEYOR'S NOTES:

SECTION 1) DATE OF FIELD SURVEY:

1. The date of completion of original field Survey was on July 16, 2014.

SECTION 2) LEGAL DESCRIPTION:

A parcel of land in Section 9, Township 53 South, Range 42 East, lying and being in Miami-Dade County, Florida, more particularly described as follows:

Beginning at the Easternmost Point of "The Bridgewater, A Condominium" recorded in Official Records Book 25144 Page 1520, of the Public Records of Miami-Dade County, Florida, which said point also lying on the Northernly Right-of-Way line of NE 79 Street Causeway (State Road 934); thence run S42°30'15"W along the said Northernly Right-of-Way line of NE 79 Street Causeway (State Road 934), a distance of 42.78 feet to the Point of Curvature of a circular curve to the right having for its elements a radius of 550.48 feet and a central angle of 14°18'43"; thence along the arc of said curve for a distance of 137.51 feet; thence run S27°22'39"E, for a distance of 2.84 feet to the back of an existing concrete sidewalk; thence run Northernly along the approximate location of said back of existing concrete sidewalk for the following seven (7) courses; thence run N62°44'24"E, for a distance of 31.01 feet; thence run N63°01'14"E, for a distance of 27.54 feet; thence run N61°17'42"E, for a distance of 36.36 feet; thence run N60°09'50"E, for a distance of 32.39 feet; thence run N58°33'06"E, for a distance of 31.55 feet; thence run N55°38'39"E, for a distance of 15.09 feet; thence run N51°25'16"E, for a distance of 15.13 feet; thence departing said sidewalk, run N47°54'39"W, for a distance of 42.00 feet to the Point of Beginning.

Containing 3762.04 square feet, 0.09 acres more or less by calculations.

And

A parcel of land in Section 9, Township 53 South, Range 42 East, lying and being in Miami-Dade County, Florida, more particularly described as follows: Beginning at the Northernmost Point of "The Grandview Palace, A Condominium" recorded in Official Records Book 21423 Page 3980, of the Public Records of Miami-Dade County, Florida, which said point also lying on the Southernly Right-of-Way line of NE 79 Street Causeway (State Road 934); thence run S64°47'30"W along the said Southernly Right-of-Way line of NE 79 Street Causeway (State Road 934), a distance of 202.10 feet; thence run N25°12'30"W, for a distance of 13.65 feet to the back of an existing concrete sidewalk; thence run Northernly along the approximate location of said back of existing concrete sidewalk for the following four (4) courses; thence run N59°54'09"E, for a distance of 44.54 feet; thence run N58°01'03"E, for a distance of 49.40 feet; thence run N56°39'19"E, for a distance of 52.07 feet; thence run N56°21'35"E, for a distance of 42.48 feet; thence departing said sidewalk, run S47°29'45"E, for a distance of 39.84 feet to the Point of Beginning.

SECTION 3) ACCURACY:

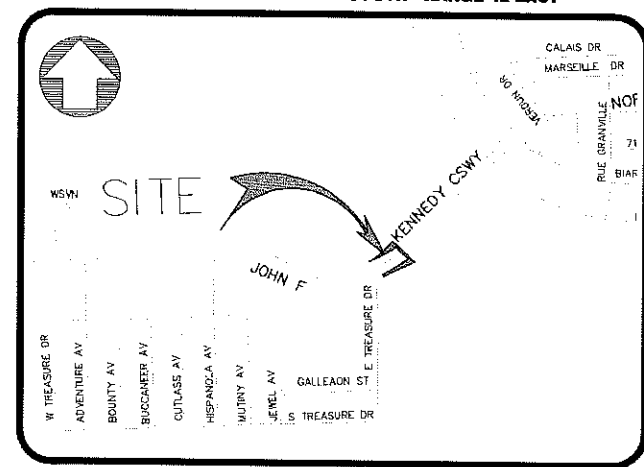
The accuracy obtained by field measurement methods and office calculations of closed geometric figures meets and exceeds the Minimum Technical Standards requirement for Commercial/High Risk area (Linear: 1 foot in 10,000 feet) as defined in Rule 5J-17.051, Florida Administrative Code.

LEGEND

- Metal Light Pole
- Guy Wire
- Utility Power Pole
- Fire Hydrant
- Water Meter
- Electric Box
- Telephone Box
- Sewer Manhole
- Traffic Sign
- Catch Basin
- Drainage Manhole
- Overhead Utility Lines
- Wire Fence
- Wood Fence
- Light Pole
- Sewer Valve
- Water Valve
- Electric Manhole
- Telephone Manhole
- Unknown Manhole
- Guard Pole
- Inverts
- Spot Elevation
- T.B.M.-Temporary Benchmark
- Diameter-Height-Spread
- Lot Corner
- Tree (Species unknown)
- Palm Tree
- Ornamental Tree

ABBREVIATIONS

- R/W Right-of-Way Line
- P/L Property Line
- I.D. Identification
- C.S. Concrete Slab
- CL Center Line
- M. Monument Line
- B. Book
- P.B. Plat Book
- P.G. Page
- ASPH. Asphalt
- TYP. Typical
- F.F.E. Finish Floor Elevation
- A/C Air Conditioner



LOCATION MAP
NOT TO SCALE

Elevations shown hereon are derived, refer and shown in National Geodetic Vertical Datum 1929 (NGVD).

Benchmark Identification:
Miami-Dade County Benchmark: DOT BM
Elevation: 15.55 feet (National Geodetic Vertical Datum)
Location:
79th Street CSWY
Treasure Island & Normandy Isle-Bridge Between.

Dot Brass Disc in Sidewalk in S.W. Corner of Bridge.

SECTION 5) LIMITATIONS:

Since no other information were furnished other than what is cited in the Sources of Data, the Client is hereby advised that there may be legal restrictions on the Subject Property that are not shown on the Survey Map that may be found in the Public Records of Miami-Dade County.

The Surveyor makes no representation as to ownership or possession of the Subject Property by any entity or individual who may appear of public records of this County.

No excavation or determination was made as to how the Subject Property is served by utilities.

No improvements were located, other than those shown. No underground foundations, improvements and/or utilities were located or shown hereon.

SECTION 6) CLIENT INFORMATION:

This Boundary and Topographic Survey was prepared at the insistence of and certified to:

KIMLEY HORN

SECTION 7) SURVEYOR'S CERTIFICATE:

I hereby certify: That this "Boundary and Topographic Survey" and the Survey Map resulting therefrom was performed under my direction and is true and correct to the best of my knowledge and belief and further, that said "Boundary Survey" meets the intent of the applicable provisions of the "Minimum Technical Standards for Land Surveying in the State of Florida", pursuant to Rule 5J-17.051 through 5J-17.052 of the Florida Administrative Code and its implementing law, Chapter 472.027 of the Florida Statutes.

HADONNE CORP., a Florida Corporation
Florida Certificate of Authorization Number LB7097

By: Raul Izquierdo, PSM Signature Date: _____
Registered Surveyor and Mapper L56099
State of Florida

NOTICE: Not valid without the signature and original raised seal of a Florida Licensed Surveyor and Mapper. Additions or deletions to Survey Maps by other than the signing party are prohibited without the written consent of the signing party.



HADONNE
PROFESSIONAL LAND SURVEYORS AND MAPPERS
1985 NW 88th Court, Suite 202, Doral, Florida, 33172
Phone: 305.266.1188 Fax: 305.207.6845 www.hadonne.com

MAP OF BOUNDARY AND TOPOGRAPHIC SURVEY
for
KIMLEY HORN
of
KENNEDY CAUSEWAY, NORTH BAY VILLAGE, FL

REVISIONS

No.	REVISIONS	DATE	BY

Kimley Horn
1201 BRICK CREEK DRIVE, SUITE 101
PHOENIX, ARIZONA 85018
PHONE: 305-679-2025 FAX: 305-673-4892
WWW.KIMLEY-HORN.COM CA 00000689

LICENSED PROFESSIONAL
GEORGE PUIG, FLA
FL LICENSE NUMBER
LA0001706

KHA PROJECT
043138022
DATE
07/30/2015
SCALE AS SHOWN
DESIGNED BY KHA
DRAWN BY END
CHECKED BY JRP DATE
7/30/2015

**EXISTING
CONDITIONS**

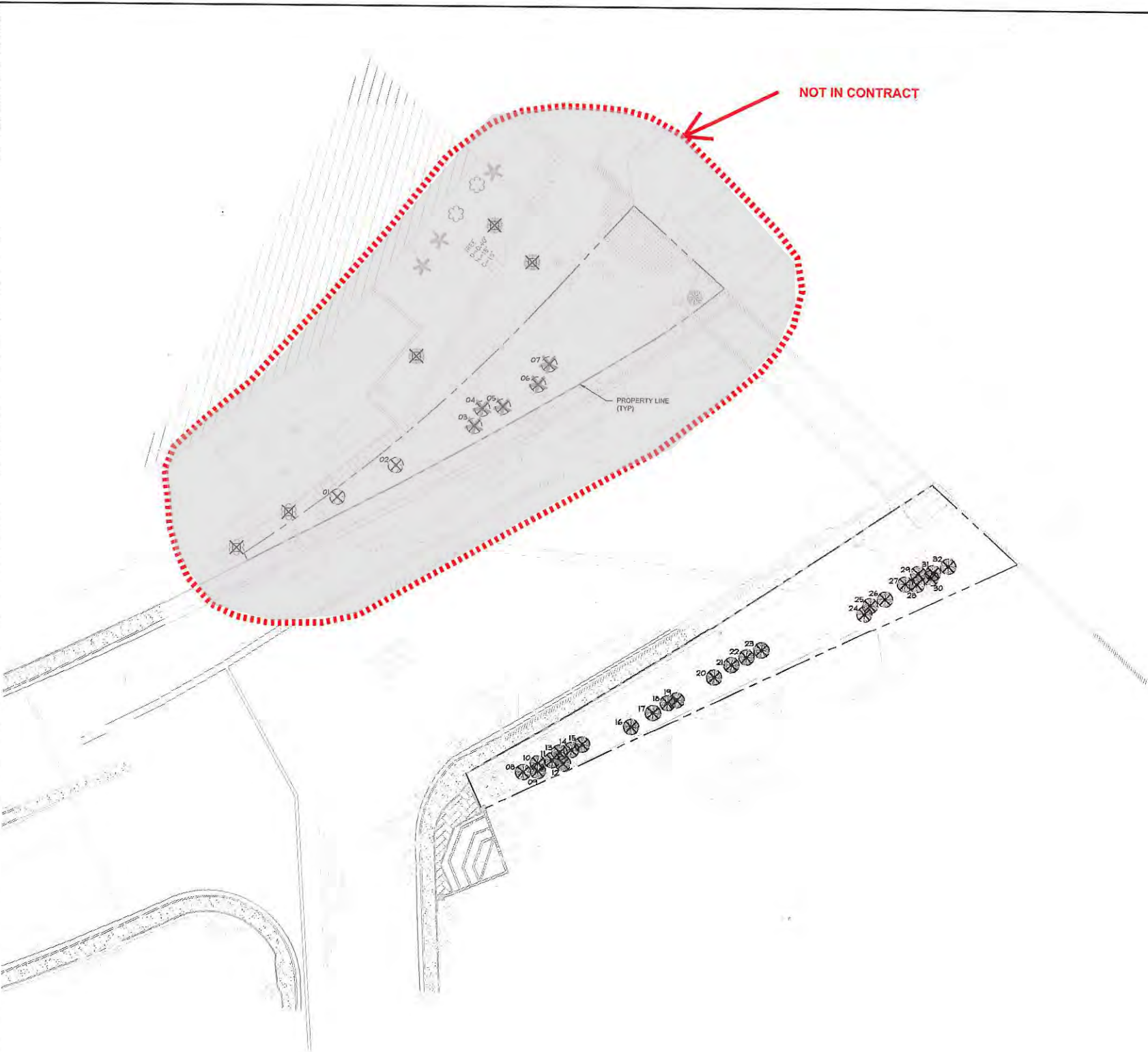
**BAYWALK PLAZA
PREPARED FOR
NORTH BAY VILLAGE**

NORTH BAY VILLAGE

SHEET NUMBER
L-100

Plotted By: E. Dean, Ed. Sheet: Site/Property/Plaza. Layout: L-100 EXISTING CONDITIONS. July 30, 2015 02:02:28am. K:\SAR_LRG\043138022 - Baywalk Plaza\CAD\Plan\Sheet\LA-100 EXISTING CONDITIONS_043138022.dwg
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Plotted By: Dean, Ed Sheet: Split: Baywalk Plaza Layout: L-200 TREE MITIGATION July 30, 2015 02:02:43pm K:\ASAR_LRS\043138022 - Baywalk Plaza\CAD\Plots\Sheet\LA-200_TREE MITIGATION\043138022.dwg
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TREE MITIGATION LEGEND

- EXISTING TO SAVE IN PLACE
- EXISTING TO BE REMOVED
- 20' PROTECTION ZONE
- DENOTES TREE OUTSIDE OF PROPERTY BOUNDARY TO BE REMOVED
- EXISTING TREE CANOPY SPREAD

NOTES

1. CONTRACTOR SHALL COORDINATE PHASING OF TREE MITIGATION / PROTECTION PLANS TO ENSURE THAT TREES TO REMAIN ARE FULLY PROTECTED.
2. SEE SHEET L-250 FOR TREE MITIGATION NOTES AND SHEET L-250 FOR INSTALLATION DETAILS.

MITIGATION CALCULATIONS

TREE CANOPY (418" DBH)
 REMOVING 7890 SQ. FT.
 REQUIRED = 2.1 SQ. FT. OF CANOPY = 15700 SQ. FT.

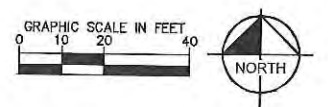
SPECIMEN TREE CANOPY (18" DBH OR GREATER)
 REMOVING 1570 SQ. FT.
 REQUIRED: 4:1 SQ. FT. OF CANOPY = 6280 SQ. FT.

TOTAL REPLACEMENT CANOPY REQUIRED = 21,980 SQ. FT.

TREE DATA TABLE

TREE #	BOTANICAL NAME	COMMON NAME	HEIGHT	SPREAD	DBH	CONDITION	ACTION	MITIGATION
1	Unknown	Unknown	n/a	n/a	n/a	n/a	REMAIN	0
2	Unknown	Unknown	n/a	n/a	n/a	n/a	REMAIN	0
3	Roystonea regia	Royal Palm	26'	20'	24"	n/a	REMOVE	314
4	Roystonea regia	Royal Palm	26'	20'	24"	n/a	REMOVE	314
5	Roystonea regia	Royal Palm	26'	20'	24"	n/a	REMOVE	314
6	Roystonea regia	Royal Palm	26'	20'	24"	n/a	REMOVE	314
7	Roystonea regia	Royal Palm	26'	20'	24"	n/a	REMOVE	314
8	Coccoloba uvifera	Sea Grape	25'	20'	8"	n/a	REMOVE	314
9	Coccoloba uvifera	Sea Grape	25'	20'	8"	n/a	REMOVE	314
10	Coccoloba uvifera	Sea Grape	25'	20'	8"	n/a	REMOVE	314
11	Coccoloba uvifera	Sea Grape	25'	20'	8"	n/a	REMOVE	314
12	Coccoloba uvifera	Sea Grape	25'	20'	8"	n/a	REMOVE	314
13	Coccoloba uvifera	Sea Grape	25'	20'	8"	n/a	REMOVE	314
14	Coccoloba uvifera	Sea Grape	25'	20'	8"	n/a	REMOVE	314
15	Coccoloba uvifera	Sea Grape	25'	20'	8"	n/a	REMOVE	314
16	Coccoloba uvifera	Sea Grape	25'	20'	8"	n/a	REMOVE	314
17	Coccoloba uvifera	Sea Grape	25'	20'	8"	n/a	REMOVE	314
18	Coccoloba uvifera	Sea Grape	25'	20'	8"	n/a	REMOVE	314
19	Coccoloba uvifera	Sea Grape	25'	20'	8"	n/a	REMOVE	314
20	Coccoloba uvifera	Sea Grape	25'	20'	8"	n/a	REMOVE	314
21	Coccoloba uvifera	Sea Grape	25'	20'	8"	n/a	REMOVE	314
22	Coccoloba uvifera	Sea Grape	25'	20'	8"	n/a	REMOVE	314
23	Coccoloba uvifera	Sea Grape	25'	20'	8"	n/a	REMOVE	314
24	Coccoloba uvifera	Sea Grape	25'	20'	8"	n/a	REMOVE	314
25	Coccoloba uvifera	Sea Grape	25'	20'	8"	n/a	REMOVE	314
26	Coccoloba uvifera	Sea Grape	25'	20'	8"	n/a	REMOVE	314
27	Coccoloba uvifera	Sea Grape	25'	20'	8"	n/a	REMOVE	314
28	Coccoloba uvifera	Sea Grape	25'	20'	8"	n/a	REMOVE	314
29	Coccoloba uvifera	Sea Grape	25'	20'	8"	n/a	REMOVE	314
30	Coccoloba uvifera	Sea Grape	25'	20'	8"	n/a	REMOVE	314
31	Coccoloba uvifera	Sea Grape	25'	20'	8"	n/a	REMOVE	314
32	Coccoloba uvifera	Sea Grape	25'	20'	8"	n/a	REMOVE	314

TOTAL TREE CANOPY TO BE REMOVED	8,792	SF
TREE CANOPY MITIGATION REQUIREMENTS	17,584	SF
TOTAL SPECIMEN TREE CANOPY TO BE REMOVED	1,570	SF
SPECIMEN TREE CANOPY MITIGATION REQUIREMENTS	6,280	SF



Kimley»Horn

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KHA PROJECT: 043138022
 DATE: 07/30/2015
 SCALE: AS SHOWN
 DESIGNED BY: KHA
 DRAWN BY: EMD
 CHECKED BY: JRP

TREE MITIGATION

BAYWALK PLAZA
 PREPARED FOR
 NORTH BAY VILLAGE
 NORTH BAY VILLAGE FL

SHEET NUMBER
L-200

Printed By: D:\Users\jgarcia\OneDrive\Documents\Projects\250 Tree Mitigation\250 Tree Mitigation Notes.dwg, July 30, 2015, 02:05:52pm, K:\SAP\JGARCIA\250 Tree Mitigation\250 Tree Mitigation Notes.dwg, July 30, 2015, 02:05:52pm. This document is intended only for the specific purpose and client for which it was prepared. Release of any information contained herein without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

TREE MITIGATION SPECIFICATIONS

A. GENERAL

- 1. CONTRACTOR SHALL ADHERE TO ALL TREE PROTECTION REQUIREMENTS LISTED IN THESE SPECIFICATIONS AND/OR THOSE LISTED IN THE CITY OR COUNTY ZONING CODE, TREE PROTECTION (LATEST EDITION), WHICHEVER IS MORE STRINGENT SHALL APPLY.
2. CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION PROCEDURES WITH THE PROJECT ARBORIST PRIOR TO BEGINNING WORK.
3. ANY AREAS SUBJECT TO EROSION MUST BE ADEQUATELY STABILIZED WITH VEGETATION MATERIAL THAT WILL WITHIN A REASONABLE TIME FRAME, DETOUR SOIL DISTURBANCE.
4. NO SIGNS, BUILDING PERMITS, WIRES OR OTHER ATTACHMENTS OF ANY KIND SHALL BE ATTACHED TO ANY TREE OR PALM. GUY WIRES DESIGNED TO PROTECT TREES ARE EXCLUDED FROM THIS PROHIBITION.
5. EXISTING TREE LOCATIONS AND SIZES ARE ESTIMATES AND ARE BASED ON A SURVEY PROVIDED BY THE OWNER SELECTED SURVEYOR.
6. CONTRACTOR SHALL COORDINATE TREE REMOVAL WITH PERMITTING AGENCY AND PROJECT ARBORIST PRIOR TO CONSTRUCTION. NO PERSON MAY REMOVE OR CAUSE TO BE REMOVED ANY PROTECTED TREE OR PALM WITHOUT FIRST HAVING OBTAINED A PERMIT AS PROVIDED BY THE APPROPRIATE PERMITTING AGENCY.
7. FOR PROTECTED TREES OR PALMS BEING REMOVED, THE CONTRACTOR MUST GIVE THE PERMITTING AGENCY REASONABLE OPPORTUNITY TO RELOCATE TREES DESIGNATED FOR REMOVAL TO ANOTHER SITE AT THE PERMITTING AGENCY'S EXPENSE.
8. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED APPLICATOR LICENSES, BUSINESS REGISTRATIONS AND INSURANCE, PESTICIDE LABELS, AND MATERIAL DATA SAFETY SHEETS. THE CONTRACTOR IS ALSO RESPONSIBLE FOR HAVING ALL SPILL CONTAINMENT MATERIALS AND REQUIRED PERSONAL PROTECTIVE EQUIPMENT FOR PESTICIDE APPLICATIONS AND ACCIDENTAL SPILLS ON SITE AT ALL TIMES. THE OWNER RESERVES THE RIGHT TO INSPECT EACH APPLICATOR AND HAVE THESE MATERIALS PRESENTED BEFORE AND DURING ANY PESTICIDE TREATMENT.
9. WHERE TRAFFIC AREAS ARE PROPOSED WITHIN THE DRIP LINE OF PROTECTED TREES AND LESS THAN FOUR (4) INCHES OF GRADE CHANGE ARE PROPOSED, PERMEABLE SURFACES THAT ALLOW AIR AND WATER INTO THE SOIL SHOULD BE USED IN LIEU OF ASPHALT OR OTHER SUCH IMPERVIOUS SURFACES.
10. TREE WELLS OF AN APPROVED DESIGN SHALL BE CONSTRUCTED AROUND ALL TREES TO BE PRESERVED WHEN MORE THAN FOUR INCHES OF FILL IS TO BE DEPOSITED WITHIN THE DRIP LINE AREA OF THOSE TREES. COORDINATE WITH PROJECT ARBORIST.
11. THE SEQUENCE OF TREE MITIGATION AND PRESERVATION MEASURES IS IMPERATIVE TO THE HEALTH AND SURVIVABILITY OF THE SUBJECT TREES AND SHALL BE COORDINATED WITH THE OWNER SELECTED PROJECT ARBORIST. THE DESIRED SEQUENCE IS OUTLINED BELOW:
a. TREE PROTECTION FENCING.
b. ROOT PRUNING AND ROOT BARRIERS.
c. CLEARING.
d. TREE CANOPY PRUNING.
e. FERTILIZATION.
f. INSECTICIDE.
g. IRRIGATION.

B. TREE PROTECTION FENCING

- 1. PRIOR TO THE ERECTION OF ANY TREE PROTECTION FENCING, ALL FOREIGN SURFACE MATERIAL, TRASH OR DEBRIS SHALL BE REMOVED FROM THE AREA TO BE ENCLOSED BY THE FENCING AFTER ERECTION OF THE FENCING NO SUCH MATERIAL OR LITTER SHALL BE PERMITTED TO REMAIN WITHIN THE PROTECTED AREA.
2. TREE PROTECTION FENCING SHALL BE PLACED AROUND ALL PROTECTED TREES TO CREATE A PROTECTIVE ROOT ZONE AND SHALL REMAIN IN PLACE UNTIL SITE CLEARING, LAND ALTERATION, AND CONSTRUCTION ACTIVITIES ARE COMPLETE.
3. NATIVE GROUND COVER AND UNDERSTORY VEGETATION EXISTING WITHIN THE PROTECTED AREA SHALL REMAIN THROUGHOUT CONSTRUCTION. OTHER DESIGNATED VEGETATION AND INVASIVE PLANT SPECIES SHALL BE REMOVED ONLY BY MANUAL LABOR UTILIZING HAND TOOLS, OR BY OTHER METHODS APPROVED BY THE PROJECT ARBORIST.
4. TREE PROTECTION FENCING TYPES AND LOCATIONS SHALL BE ERECTED AS SHOWN ON THE TREE MITIGATION PLANS AND DETAILS, OR AS REQUESTED BY LOCAL AGENCY.
5. FINAL LOCATIONS SHALL BE COORDINATED WITH AND APPROVED BY THE PROJECT ARBORIST.
6. NO MATERIALS, EQUIPMENT, SPILL, WASTE OR WASHOUT WATER MAY BE DEPOSITED, STORED, OR PARKED WITHIN 20 FEET OF THE TREE PROTECTION ZONE.
7. EROSION CONTROL DEVICES SUCH AS SILT FENCING, DEBRIS BASINS, AND WATER DIVERSION STRUCTURES SHALL BE INSTALLED TO PREVENT SILTATION AND/OR EROSION WITHIN THE TREE PROTECTION ZONE.
8. CONSTRUCTION ACTIVITY SHALL NOT DESTROY OR IRREVERSIBLY HARM THE ROOT SYSTEM OF PROTECTED TREES. POST HOLES AND TRENCHES LOCATED CLOSE TO PROTECTED TREES SHALL BE ADJUSTED TO AVOID DAMAGE TO MAJOR ROOTS.
9. DO NOT INSTALL CONDUIT, DRAIN OR IRRIGATION LINES, OR ANY UTILITY LINE WITHIN THE TREE PROTECTION ZONE WITHOUT THE APPROVAL OF THE PROJECT ARBORIST. IF LINES MUST TRAVERSE THE PROTECTION AREA, THEY SHALL BE TUNNELED OR BORED UNDER THE TREE.
10. CONTRACTOR'S ACCESS TO FENCED TREE PROTECTION AREAS WILL BE PERMITTED ONLY WITH APPROVAL OF THE PROJECT ARBORIST.
11. EXCAVATION OR GRADING REQUIRED WITHIN THE PROTECTED AREA SHALL BE LIMITED TO THREE (3) INCHES OF CUT OR FILL. COORDINATE WITH PROJECT ARBORIST.
12. STRUCTURES AND UNDERGROUND FEATURES TO BE REMOVED WITHIN THE TREE PROTECTION ZONE SHALL BE COORDINATED WITH THE PROJECT ARBORIST.
13. TREE PROTECTION FENCING AROUND TREES TO BE RELOCATED SHALL BE ERECTED UNTIL THE TREE IS READY TO BE RELOCATED AND NEW FENCING SHALL BE ERECTED AT THE TREES NEW LOCATION AND WILL REMAIN IN PLACE UNTIL ALL CONSTRUCTION ACTIVITIES ARE COMPLETE.
14. IF ANY DAMAGE TO TREE PROTECTION FENCING SHOULD OCCUR BY ACCIDENT OR NEGLIGENCE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMMEDIATE REPAIRS.
15. IF TEMPORARY HALL OR ACCESS ROADS MUST PASS OVER THE PROTECTED AREA OF TREES TO BE PRESERVED, A ROAD BED OF SIX (6) INCHES OF FILL OR GRAVEL SHALL BE CREATED TO PROTECT THE SOIL. THE ROAD BED MATERIAL SHALL BE REPLISHED AS NECESSARY TO MAINTAIN A SIX (6) INCH ROAD BED AT ALL TIMES. CONTRACTOR SHALL REMOVE ALL SUCH MATERIALS FROM THE SITE AS SOON AS TEMPORARY ACCESS IS NO LONGER NECESSARY.
16. CONTRACTOR SHALL COORDINATE WITH THE PROJECT ARBORIST PRIOR TO THE REMOVAL OF ALL TREE PROTECTION FENCING.

C. ROOT PRUNING/TRENCHING

- 1. TRENCHING LOCATIONS SHALL BE APPROVED IN THE FIELD BY THE PROJECT ARBORIST.
2. TRENCHING EQUIPMENT THAT WILL TURN AT HIGH RPM'S IS PREFERRED, AND SHALL BE APPROVED BY THE PROJECT ARBORIST. APPROVED EQUIPMENT WILL BE USED TO PERFORM ALL ROOT PRUNING OPERATIONS. A MINIMUM DEPTH OF THREE FEET IS REQUIRED.
3. INSTALL ROOT BARRIER WHERE DESIGNATED, SEE TREE MITIGATION PLAN AND DETAIL SHEETS.
4. THE TRENCH SHALL BE BACKFILLED WITH PREVIOUSLY EXCAVATED SOIL AND COMPACTED IMMEDIATELY.
5. TREES TO BE RELOCATED SHALL BE ROOT PRUNED A MINIMUM OF TWELVE (12) WEEKS PRIOR TO TREE RELOCATION.
6. WHEN THE TREE ROOT ZONE WILL BE DISTURBED, AFFECTED ROOTS MUST BE SEVERED BY CLEAN PRUNING CUTS AT THE POINT WHERE CONSTRUCTION IMPACTS THE ROOTS.

D. CLEARING

- 1. ANY BRUSH CLEARING REQUIRED WITHIN THE TREE PROTECTION ZONE SHALL BE ACCOMPLISHED WITH HAND-OPERATED EQUIPMENT.
2. CONTRACTOR SHALL CLEAR ALL TREE PROTECTION AREAS OF VINES, SHRUBS, GROUND COVERS, WEEDS, SAPLINGS, AND INVASIVES LISTED ON THE LATEST EDITION OF THE FLORIDA EXOTIC PEST PLANT COUNCIL'S LIST OF INVASIVE SPECIES.
3. PROJECT ARBORIST MUST APPROVE METHODS OTHER THAN HAND CLEARING.

- 4. A TWO (2) INCH LAYER OF MULCH SHALL BE APPLIED OVER THE SURFACE OF EXPOSED ROOTS OF PROTECTED TREES DURING THE SITE CLEARING PHASE.

E. TREE CANOPY PRUNING

- TREE PRUNING SPECIFICATIONS SHALL BE DEFINED BASED ON SPECIFIC RECOMMENDATIONS OF THE PROJECT ARBORIST. INFORMATION PRESENTED BELOW SHOULD BE USED AS A GUIDELINE.
1. CONTRACTOR SHALL VISIT THE SITE WITH THE PROJECT ARBORIST TO VERIFY THE EXTENT OF REQUIRED PRUNING.
2. ALL PRUNING SHALL BE PERFORMED IN ACCORDANCE WITH THE RECOMMENDATIONS OF A QUALIFIED INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA) CERTIFIED ARBORIST OR AN AMERICAN SOCIETY OF CONSULTING ARBORISTS (ASCA) REGISTERED CONSULTING ARBORIST (RCA).
3. AT LEAST ONE MEMBER OF THE PRUNING CREW SHALL BE AN ISA CERTIFIED ARBORIST.
4. WHILE IN THE TREE, THE ARBORIST SHALL PERFORM AN AERIAL INSPECTION TO IDENTIFY DEFECTS THAT REQUIRE TREATMENT. ANY ADDITIONAL WORK NEEDED SHALL BE REPORTED TO THE OWNER.
5. PRUNING CUTS SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE ANSI A300 PRUNING STANDARD (AMERICAN NATIONAL STANDARD FOR TREE CARE OPERATIONS) AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF ANSI Z133.1 SAFETY STANDARD. PRUNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ISA'S "BEST MANAGEMENT PRACTICES: TREE PRUNING".
6. WHERE TEMPORARY CLEARANCE IS NEEDED FOR ACCESS, BRANCHES SHALL BE TIED BACK TO HOLD THEM OUT OF THE CLEARANCE ZONE.
7. NO MORE THAN 20 PERCENT OF LIVE FOLIAGE SHALL BE REMOVED WITH ANY TREE.
8. ALL TREES WITHIN THE PROJECT AREA SHALL BE PRUNED AS FOLLOWS:
a. LIVE BRANCH PRUNING SHOULD BE PERFORMED ONLY WHEN THE DANGER OF INSECT OR DISEASE INFESTATION IS NOT PRESENT.
b. REMOVE STUBS, CUTTING OUTSIDE THE WOUND WOOD TISSUE THAT HAS FORMED AROUND THE BRANCH.
c. CLEANING, FOR THE SELECTIVE REMOVAL OF DEAD, DISEASED, BROKEN, OR CROSSING BRANCHES DOWN TO ONE INCH IN DIAMETER OR AS DIRECTED BY THE PROJECT ARBORIST.
d. PRUNING CUTS LARGER THAN 4 INCHES IN DIAMETER, EXCEPT FOR DEAD WOOD, SHALL BE AVOIDED.
e. PRUNING CUTS THAT EXPOSE HEARTWOOD SHALL BE AVOIDED WHENEVER POSSIBLE.
f. ALL TREES WITH CROWNS THAT PROJECT INTO PARKING LOT/ROADWAY AREAS SHALL BE RAISED TO 14 FEET ABOVE FINISHED GRADE.
g. ALL TREES WITH CROWNS THAT PROJECT INTO SIDEWALK AREAS SHALL BE RAISED TO A HEIGHT OF 8 FEET ABOVE FINISHED GRADE.
9. TREES, WHOSE ROOT SYSTEMS WILL BE IMPACTED SHALL RECEIVE THE FOLLOWING PRUNING TO COMPENSATE FOR ROOT LOSS:
a. THE LOCATION AND SIZE OF BRANCHES FOR REDUCTION SHALL BE DEFINED BY THE PROJECT ARBORIST.
b. REDUCTION, OR THE SELECTIVE PRUNING TO REDUCE TREE HEIGHT OR SPREAD.
c. REDUCE END WEIGHT ON HEAVY, HORIZONTAL BRANCHES BY SELECTIVELY REMOVING SMALL DIAMETER BRANCHES, NO GREATER THAN 2 TO 3 INCHES, NEAR THE ENDS OF SCOFFER D BRANCHES.
d. RAISING SHALL CONSIST OF SELECTIVE PRUNING TO PROVIDE VERTICAL CLEARANCE.
10. PROPOSED REPLACEMENT TREES
a. PRUNING SHALL BE LIMITED TO CLEANING.
11. BRUSH SHALL BE CHIPPED AND SPREAD (ONLY WHEN DISEASE OR INSECT INFESTATION IS NOT PRESENT) UNDERNEATH TREES WITHIN THE TREE PROTECTION ZONE TO A MAXIMUM DEPTH OF THREE (3) INCHES, LEAVING THE TRUNK CLEAR OF MULCH.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL EXCESS DEBRIS ON A DAILY BASIS.

F. FERTILIZATION

- 1. CONTRACTOR SHALL COORDINATE FERTILIZATION PLAN, FOLLOWING BEST MANAGEMENT PRACTICES WITH THE PROJECT ARBORIST PRIOR TO COMMENCEMENT OF WORK.
2. EVERY EFFORT SHALL BE MADE TO UTILIZE CHEMICALS OF AN ORGANIC OR BIODEGRADABLE NATURE IN ORDER TO OFFER THE LEAST IMPACT TO THE NATURAL ENVIRONMENT. CONTRACTOR IS RESPONSIBLE FOR MIXING, APPLYING, AND DISPOSAL OF ALL CHEMICALS IN ACCORDANCE WITH STRICT ADHERENCE TO MANUFACTURER'S SPECIFICATIONS. COORDINATE WITH PROJECT ARBORIST FOR FURTHER INSTRUCTION.
3. ONLY TREES AFFECTED BY CONSTRUCTION OR AS SHOWN ON THE TREE MITIGATION PLAN AND TREE INVENTORY SCHEDULE SHALL BE TREATED.
4. TREES SPECIFIED TO RECEIVE FERTILIZER SHALL BE TREATED AS FOLLOWS:
a. MIX FERTILIZER ACCORDING TO MANUFACTURER'S SPECIFICATIONS INTO A TANK WITH AGITATION CAPABILITY.
b. MIX WETTING AGENT ACCORDING TO MANUFACTURER'S SPECIFICATIONS INTO SAME TANK WITH FERTILIZER. AGITATE MIX.
c. INJECT THE MIXTURE WITH A HYDRAULIC INJECTION SYSTEM INTO THE UPPER 6-12 INCHES OF SOIL WITH A SOIL PROBE. INJECT AT THE RATE OF ONE THIRD (1/3) GALLON AT EACH INJECTION SITE.
d. THE CRITICAL ROOT ZONE AREA PLUS 2 BEYOND THE CRITICAL ROOT ZONE SHALL BE INJECTED. BUT NOT BEYOND ROOT PRUNING LOCATIONS.
e. FERTILIZER SHALL BE INSTALLED PRIOR TO THE INSTALLATION OF ANY AERATION SYSTEMS.
5. EMPTY PRODUCT CONTAINERS SHALL BE STOCKPILED FOR INSPECTION BY THE PROJECT ARBORIST PRIOR TO DISPOSAL.
6. CONTRACTOR SHALL PROVIDE MYCORRHIZAL TRANSPLANT INOCULANT ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND AS RECOMMENDED BY THE PROJECT ARBORIST. MIX INOCULANT IN 10" WIDE TOPSOIL RING AROUND THE ROOT BALL.
7. CONTRACTOR SHALL PROVIDE INJECTABLE MYCORRHIZAL INOCULANT ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND AS RECOMMENDED BY THE PROJECT ARBORIST. AGITATE FOR 10 MINUTES.
8. INJECT THE MIXTURE WITH A HYDRAULIC INJECTION SYSTEM INTO THE UPPER 6-12 INCHES OF SOIL WITH A SOIL PROBE. INJECT AT THE RATE OF ONE THIRD (1/3) GALLON AT EACH INJECTION SITE.
9. EMPTY PRODUCT CONTAINERS SHALL BE STOCKPILED FOR INSPECTION BY PROJECT ARBORIST PRIOR TO DISPOSAL.
7. TRANSPLANT MAINTENANCE
a. APPROXIMATELY ONE YEAR AFTER PLANTING, THE CONTRACTOR SHALL RE-FERTILIZE ALL TRANSPLANTS UTILIZING THE SAME PROCEDURES ABOVE.

G. INSECTICIDE

- 1. NOTIFY PROJECT ARBORIST IF ANY INFESTATION IS NOTICED.
2. FOLLOW PROJECT ARBORIST'S RECOMMENDED PROCEDURES.
3. FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS CONCERNING APPLICATION, READ ALL WARNING LABELS.
4. ANY NETS, AS WELL AS, THE PETS FOOD AND WATER BOWLS SHOULD BE REMOVED FROM THE AREA AND ANY SWIMMING POOLS SHOULD BE COVERED. COORDINATE WITH PROJECT ARBORIST FOR FURTHER INSTRUCTION.
5. ENSURE COMPLETE COVERAGE AND REAPPLY 2-3 MONTHS AFTER INITIAL APPLICATION UTILIZING SAME PROCEDURE.

H. IRRIGATION

- 1. EVERY EFFORT SHALL BE MADE TO WATER THE PRESERVED TREES AND TRANSPLANTS. CONTRACTOR SHALL IRRIGATE BY HAND OR BY TEMPORARY IRRIGATION.
2. IRRIGATE AS REQUIRED BY PROJECT ARBORIST UNTIL PERMANENT IRRIGATION IS INSTALLED AND OPERATING.

- 3. UNDERGROUND IRRIGATION SHALL NOT BE INSTALLED WITHIN THE DRIP LINES OF EXISTING TREES UNLESS ROOT PROTECTION MEASURES ARE PROVIDED AND APPROVED BY PROJECT ARBORIST.

I. TREE REMOVALS

- 1. PRIOR TO AND DURING LAND CLEARING, INCLUDING GRUBBING, ALL TREES TO BE REMOVED SHALL BE CLEARLY MARKED BY PROJECT ARBORIST WITH RED SURVEY RIBBONS AT 38 INCHES MINIMUM ABOVE GRADE.
2. CONTRACTOR SHALL REMOVE ALL TREES AS SHOWN ON THE TREE MITIGATION PLANS AFTER THE TREE PROTECTION FENCING IS INSTALLED.
3. ALL TREES SHOWN TO BE REMOVED SHALL BE FELLED WITH A CHAIN SAW AND STUMP GROUND 0" BELOW SURFACE. ANY TREE SHOWN TO BE REMOVED THAT IS IN AN AREA WHERE COMPACTION IS CRITICAL SHALL BE FELLED WITH A CHAIN SAW AND STUMP REMOVED BY CONTRACTOR.
4. ALL WOOD AND STUMPS FROM REMOVALS SHALL BE HAULED FROM THE SITE THE SAME DAY, EXCEPT FOR TOPS. ALL TOPS ARE TO BE MULCHED AND STOCKPILED OR HAULED DIRECTLY TO MULCHED AREAS FOR RELOCATED TREES IF SCHEDULING PERMITS. TOPS SHALL BE CHIPPED AND PLACED IN THE TREE PROTECTION ZONE TO A DEPTH OF THREE (3) INCHES. ALL EXCESS WOOD CHIPS SHOULD BE HAULED OFF SITE AFTER TRANSPLANTING IS COMPLETE.
5. ALL BURN PITS IF APPLICABLE MUST BE APPROVED BY THE PROJECT ARBORIST AND OWNER.
6. TREES TO BE REMOVED THAT HAVE BRANCHES EXTENDING INTO THE CANOPY OF TREES TO REMAIN MUST BE REMOVED BY A QUALIFIED ISA CERTIFIED ARBORIST AND NOT BY DEMOLITION OR CONSTRUCTION CONTRACTORS. THE QUALIFIED ARBORIST SHALL REMOVE THE TREE IN A MANNER THAT CAUSES NO DAMAGE TO THE TREES AND UNDERSTORY VEGETATION TO REMAIN.
7. TREES TO BE REMOVED LOCATED WITHIN THE TREE PROTECTION ZONE SHALL BE REMOVED BY A QUALIFIED ISA CERTIFIED ARBORIST. THE TREES SHALL BE CUT NEAR GROUND LEVEL AND THE STUMP GROUND OUT.
8. MACHINE DUG TRANSPLANTING
a. DIG TRANSPLANT-RECEIVING HOLE.
b. SET SPADE DUG ROOT BALL INTO RECEIVING HOLE 4"-8" ABOVE EXISTING GRADE.
c. WASH SAND OR TOPSOIL INTO AIR POCKETS BETWEEN ROOT BALL AND RECEIVING HOLE.
d. INSTALL TOPSOIL RING, 4" HIGH, 18" WIDE, AROUND PERIMETER OF ROOT BALL. MIX MYCORRHIZAL TRANSPLANT INOCULANT INTO TOPSOIL RING PER MANUFACTURER'S SPECIFICATIONS.
e. INSTALL THREE INCHES OF MULCH FROM PERIMETER OF ROOT BALL TO WITHIN 6" OF TREE TRUNK.
f. COVER TOPSOIL RING WITH 1" OF MULCH AND EXTEND MULCH 4'-6" DEEP, AWAY FROM PERIMETER OF ROOT BALL.
9. WATER TRANSPLANT.
K. HOLDING AREA FOR TRANSPLANTS
1. HOLDING AREAS SHOULD NOT BE NECESSARY. CONSTRUCTION PHASING SHOULD BE IMPLEMENTED SO THAT TREES ARE IMMEDIATELY RELOCATED TO THEIR PERMANENT LOCATION. COORDINATE WITH PROJECT ARBORIST AS NEEDED.
2. SHOULD A HOLDING AREA BE NECESSARY, TREE PROTECTION FENCING SHALL BE INSTALLED AT THE PERIMETER OF THE ENTIRE AREA.
3. CONTRACTOR SHALL COORDINATE LOCATION AND SPECIFICATIONS OF THE HOLDING AREA WITH PROJECT ARBORIST.
4. CONTRACTOR SHALL SUPPLY TEMPORARY IRRIGATION TO THE HOLDING AREA CONSISTING OF ABOVE GROUND PVC OR POLYETHYLENE PIPE, SPRAY OR ROTOR HEADS (WITH HEAD TO HEAD COVERAGE) AND A CONTROLLER, COORDINATE WITH PROJECT ARBORIST FOR CONTROLLER SETTINGS AND ALTERNATIVE WATERING METHODS.
L. TOPSOIL
1. CONTRACTOR SHALL COORDINATE ALL EARTHWORK OPERATIONS WITHIN TREE PROTECTION AREAS WITH THE PROJECT ARBORIST PRIOR TO BEGINNING WORK.
2. ALL TOPSOIL SHALL BE NATURAL, FRIABLE, FERTILE, FINE LOAMY SOIL POSSESSING CHARACTERISTICS OF REPRESENTATIVE TOPSOIL IN THE VICINITY THAT PRODUCES HEAVY GROWTH.
3. TOPSOIL PH RANGE OF 5.5 TO 7.0, 5-5 PERCENT ORGANIC MATERIAL, MINIMUM, FREE FROM SUBSOIL, OBJECTIONABLE WEEDS, LITTER, SODS, STIFF CLAY, STONES LARGER THAN ONE (1) INCH IN DIAMETER, STUMPS, ROOTS, TRASH, TOXIC SUBSTANCES, OR ANY OTHER MATERIAL WHICH MAY BE HARMFUL TO PLANT GROWTH.
4. VERIFY AMOUNT STOCKPILED IF ANY, AND SUPPLY ADDITIONAL AS NEEDED FROM NATURALLY WELL-DRAINED SITES WHERE TOPSOIL OCCURS AT LEAST FOUR (4) INCHES DEEP. DO NOT OBTAIN TOPSOIL FROM Bogs OR MARSHES.
5. PROJECT ARBORIST SHALL APPROVE ALL TOPSOIL PRIOR TO PLACEMENT.

M. REPAIR OF DAMAGED TREES

- 1. IF DAMAGE TO ANY TREE SHOULD OCCUR BY ACCIDENT OR NEGLIGENCE DURING THE CONSTRUCTION PERIOD, THE PROJECT ARBORIST SHALL APPRAISE THE DAMAGE AND MAKE RECOMMENDATIONS TO THE OWNER FOR REPAIR BY THE CONTRACTOR.
2. IF ANY TREE DESIGNATED TO BE SAVED IS REMOVED FROM THE SITE WITHOUT PERMISSION OF THE OWNER'S REPRESENTATIVE, THE PROJECT ARBORIST SHALL APPRAISE THE TREE AND MAKE RECOMMENDATIONS TO THE OWNER FOR REPLACEMENT OF THE TREE AND ANY FEES THAT MAY BE ASSESSED TO THE OWNER BY THE GOVERNING AGENCY.

Table with columns: No., DATE, REVISIONS, BY

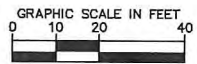
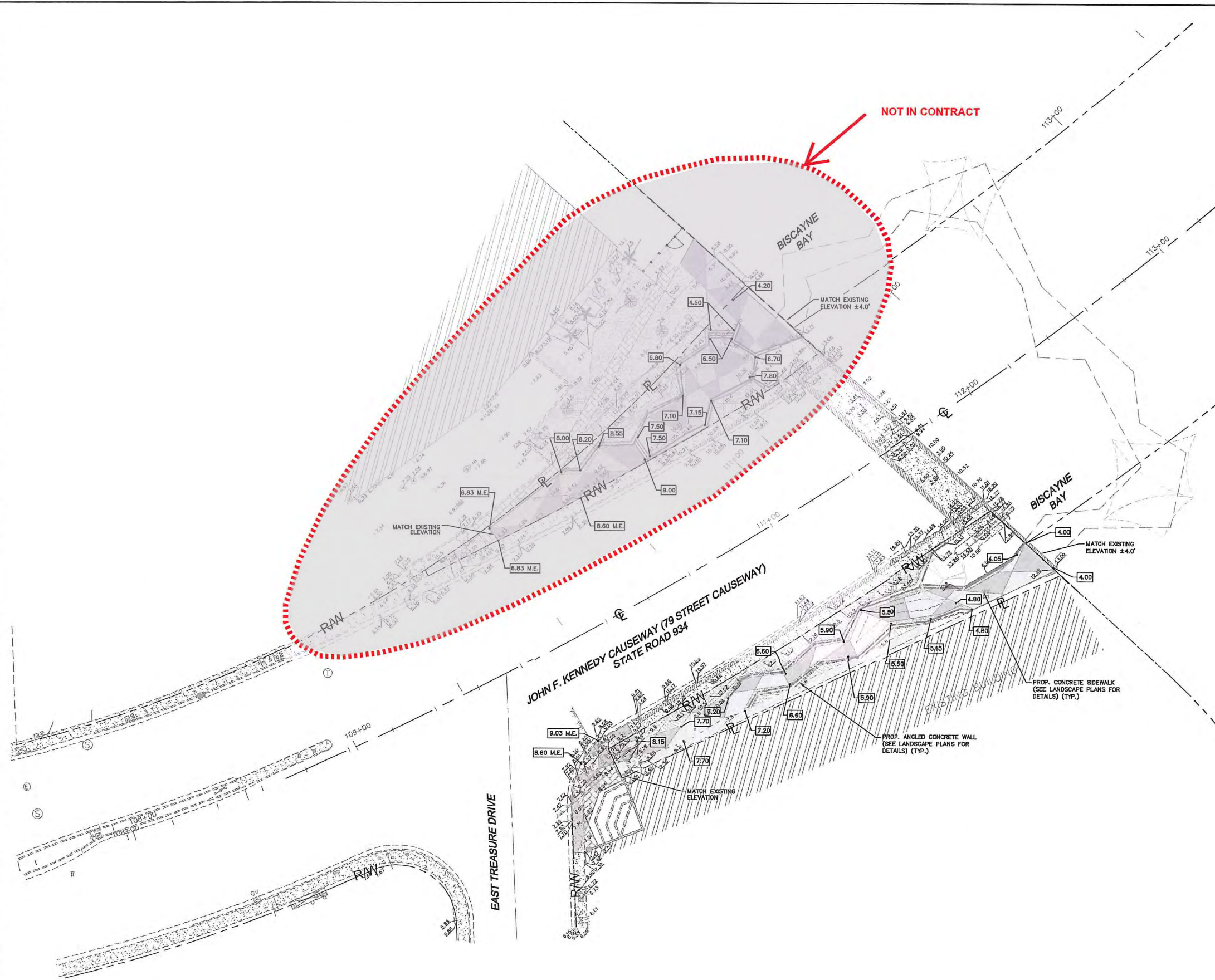
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Professional Engineer information: LICENSED PROFESSIONAL ENGINEER, GEORGE PUG, P.E., FL LICENSE NUMBER LA0001706, DATE: 7/30/2015

TREE MITIGATION NOTES

LANDSCAPE ARCHITECT stamp for GEORGE EDWARD PUG, NO. LA0001706, STATE OF FLORIDA, dated 7/30/15

Plotted By: kumbhakar, Brian - Sheet: Sals-BAYWALK PLAZA - Layout: C-300 PAVING & GRADING PLAN - July 30, 2015 12:40:48pm - K:\MIS_LIPS\04318022_baywalk_plaza_area_design\CADD\plan sheets\C-300 PAVING & GRADING PLAN.dwg
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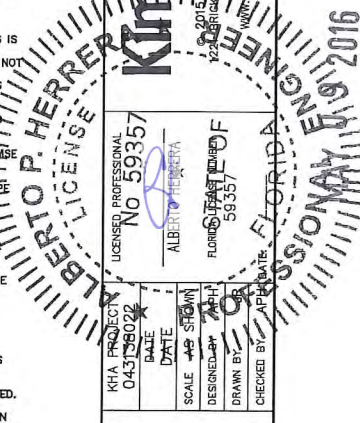


LEGEND:

- RAW --- RIGHT-OF-WAY OR PROPERTY LINE
- CENTER LINE OF ROADWAY
- 9.10 --- PROPOSED ELEVATION
- ±8.24 M.E. --- MATCH EXISTING PAVEMENT ELEVATION

NOTES:

1. ALL MAXIMUM SLOPES ARE ABSOLUTE AND SUPERSEDE CONSTRUCTION TOLERANCES STATED IN THE PROJECT SPECIFICATION. THE CONTRACTOR HAS THE OPTION OF ADJUSTING GRADES TO ALLOW FOR CONSTRUCTION TOLERANCE BUT SHALL NOT EXCEED THE MAXIMUM SPECIFIED ABOVE BY ANY AMOUNT. PAVEMENT SLOPES WILL BE REVIEWED AFTER CONSTRUCTION AND ANY PAVEMENT FOUND TO EXCEED THE MAXIMUM SPECIFIED ABOVE WILL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
2. THE CONTRACTOR SHALL CONTACT THE LANDSCAPE ARCHITECT OR SITE ENGINEER REGARDING ANY GRADE REVISIONS PRIOR TO CONSTRUCTION OF THE PAVEMENT AREAS.
3. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.
4. ALL CUT AND FILL SLOPES SHALL BE 4:1 OR FLATTER UNLESS OTHERWISE NOTED.
5. STORM PIPE SHALL BE HIGH DENSITY POLYETHYLENE (HDPE) STORM PIPE IN INFILTRATION TRENCH AREAS SHALL BE SLOTTED HDPE.
6. IF ANY EXISTING DRAINAGE STRUCTURES TO REMAIN IN SERVICE ARE DAMAGED DURING CONSTRUCTION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR THOSE STRUCTURE TO PRIOR CONDITION, OR BETTER, OR TO REPLACE THEM, AS NECESSARY.
7. ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUTED TO ENSURE CONNECTION AT STRUCTURE IS WATERTIGHT.
8. THE CONTRACTOR SHALL ADHERE TO ALL TERMS AND CONDITIONS AS OUTLINED IN THE GENERAL N.P.D.E.S. PERMIT FOR STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
9. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS.
10. SPOT ELEVATIONS ARE AT EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
11. FIELD DENSITY TESTS SHALL BE TAKEN AT THE FREQUENCY REQUIRED IN THE SPECIFICATIONS.
12. THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. THE CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE.
13. STORMWATER POLLUTION PREVENTION PLAN AND DETAILS IMPLEMENTED ON SITE SHALL CONFORM TO THE REQUIREMENT OF FDEP/NPDES AND MIAMI-DADE COUNTY.



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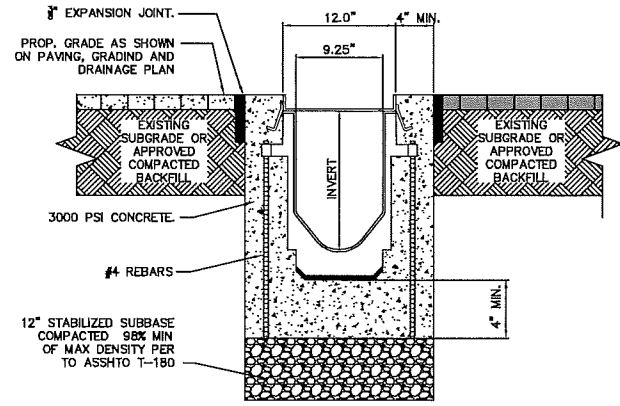
**PAVING & GRADING
 PLAN**

**BAYWALK PLAZA
 PREPARED FOR
 NORTH BAY VILLAGE**

NORTH BAY VILLAGE FLORIDA

No.	REVISIONS	DATE	BY

Plotted By: kumbhakar. Prasad, Sheet: BAYWALK PLAZA, Layout: C-302 PAVING, GRADING, AND DRAINAGE DETAILS, May 09, 2016 05:06:32pm, K:\MIL\URC\043138022_Baywalk Plaza Area Design\CIVIL\CADD\Sheet\C-302 PAVING, GRADING, AND DRAINAGE DETAILS.dwg
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ZURN Z-882 TRENCH DRAIN SYSTEM DETAILS (TYPICAL)
(OR APPROVED EQUAL)
N.T.S.

ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 12" STARTS FROM THE TOP OF THE 1" LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED SURFACE ABOVE. NOTE THAT PAVEMENT SUBBASE SHALL BE PART OF THIS LAYER.	MSA	PREPARE PER SITE DESIGN ENGINEERS PLANS. PAVED INSTALLATIONS MAY HAVE STRENGTH MATERIAL AND PREPARATION REQUIREMENTS.
C	INITIAL FILL: FILL MATERIAL FOR LAYER 12" STARTS FROM THE TOP OF THE FINISHMENT STONE (2" LAYER) TO 12" ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 1" LAYER.	AASHTO M 45 A-1, A-2, A-3 OR AASHTO M 43 3, 5.7, 4, 4.87, 5, 5.5, 5.2, 4.97, 5.6, 7.7, 8.8, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBER IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 90% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 90% RELATIVE DENSITY FOR PROCESS AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 20,000 LB (9,000 KG). FORCE NOT TO EXCEED 25,000 LB (11,300 KG).
B	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBER FROM THE FOUNDATION STONE (1" LAYER) TO THE 1" LAYER ABOVE.	AASHTO M 43 3, 3.97, 4, 4.87, 5, 5.6, 5.7	100% COMPACTION REQUIRED.
A	FOUNDATION STONE: FILL BELOW CHAMBER FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	AASHTO M 43 3, 3.97, 4, 4.87, 5, 5.6, 5.7	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. 1"

PLEASE NOTE:

- THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M 43) STONE.
- STORMTECH COMPACTION REQUIREMENTS ARE MET FOR ALL LOCATIONS MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) MAX LIFTS USING TWO FULL COVERSAGES WITH A VIBRATORY COMPACTION EQUIPMENT. FOR SPECIAL LOAD BEARING, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
- ADD GEOTEXTILES WITH NONWOVEN RESISTIBLE ALL AROUND CLEAN, CRUSHED, ANGULAR STONE #4 & 8 LAYERS.
- PAVEMENT LAYER (DESIGNED BY SITE DESIGN ENGINEER)
- PERIMETER STONE (SEE NOTE 6)
- EXCAVATION WALL (CAN BE SLOPED OR VERTICAL)
- SC-740 CHAMBER
- SUBGRADE SOLE (SEE NOTE 5)
- DEPTH OF STONE TO BE DETERMINED BY DESIGN ENGINEER (150 mm MIN)
- 12" (300 mm) MIN
- 12" (300 mm) TYP

NOTES:

- SC-740 CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM D2414 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS", OR ASTM F2022 "STANDARD SPECIFICATION FOR POLYETHYLENE (PE) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- SC-740 CHAMBERS SHALL BE SPECIFIED IN ACCORDANCE WITH ASTM F2277 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THIN-WALLED PLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- "ACCEPTABLE FILL MATERIALS" TABLE ABOVE PROVIDES MATERIAL LOCATIONS, DESCRIPTIONS, GRADATIONS, AND COMPACTION REQUIREMENTS FOR FOUNDATION, EMBEDMENT, AND FILL MATERIALS.
- THE "SITE DESIGN ENGINEER" REFERS TO THE ENGINEER RESPONSIBLE FOR THE DESIGN AND LAYOUT OF THE STORMTECH CHAMBERS FOR THIS PROJECT.
- THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
- PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- GRADE LAYER 1" IS PLACED. ANY SOLID MATERIAL CAN BE PLACED IN LAYER 12" UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 12" UP TO THE SITE DESIGN ENGINEER'S DESCRIPTION.

SC-740 TECHNICAL SPECIFICATION

CHAMBER STORAGE	CHAMBER VOLUME
51" X 30" X 18" (1295 mm X 762 mm X 450 mm)	45.0 CUBIC FEET (1.27 m³)
45" X 30" X 18" (1140 mm X 762 mm X 450 mm)	37.5 CUBIC FEET (1.06 m³)
30" X 30" X 18" (762 mm X 762 mm X 450 mm)	15.0 CUBIC FEET (0.42 m³)

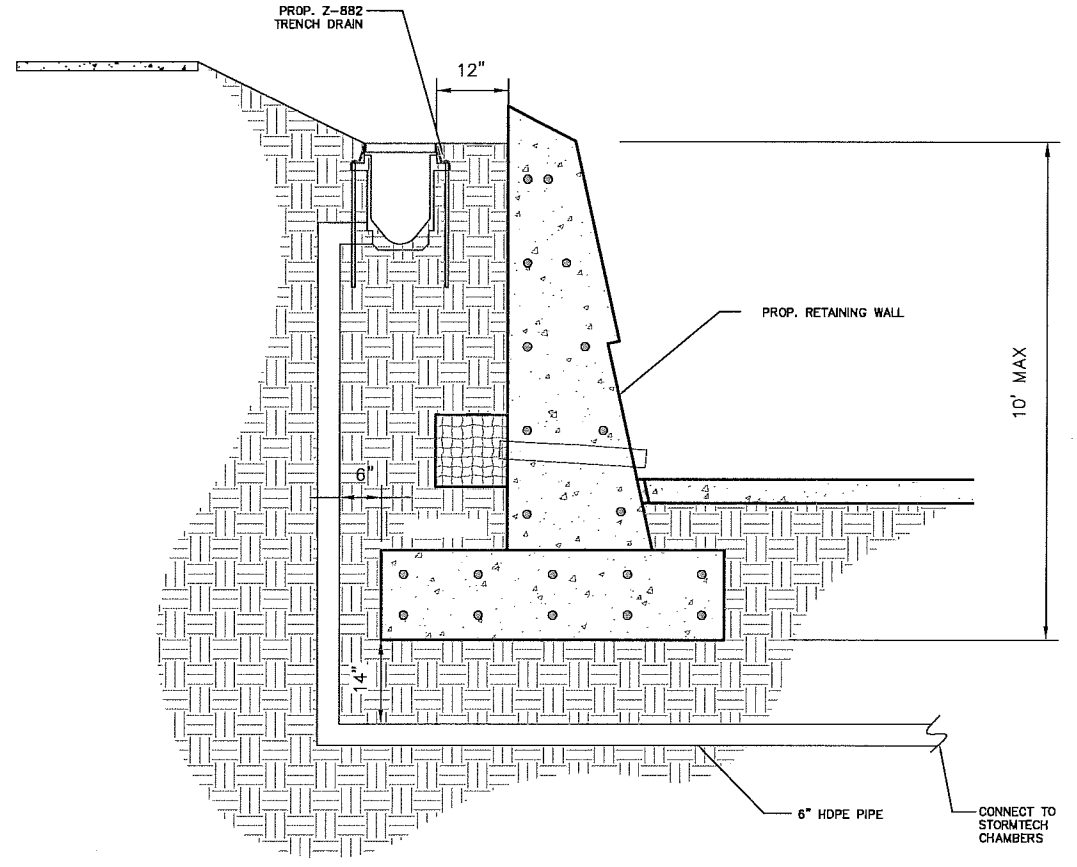
STUBS AT BOTTOM OF END CAP FOR PART HEADERS ENDING WITH "S" STUBS AT TOP OF END CAP FOR PART HEADERS ENDING WITH "T" STUBS:

PART #	STUB	A	B	C
SC740E001 / SC740E002	8" (200 mm)	18.0" (450 mm)	18.0" (450 mm)	...
SC740E003 / SC740E004	10" (250 mm)	13.2" (330 mm)	10.0" (250 mm)	0.0" (0 mm)
SC740E005 / SC740E006	12" (300 mm)	14.7" (370 mm)	14.5" (365 mm)	0.0" (0 mm)
SC740E007 / SC740E008	14" (350 mm)	13.4" (340 mm)	13.4" (340 mm)	0.0" (0 mm)
SC740E009 / SC740E010	16" (400 mm)	14.7" (370 mm)	12.5" (315 mm)	1.2" (30 mm)
SC740E011 / SC740E012	18" (450 mm)	18.4" (465 mm)	9.0" (225 mm)	1.3" (33 mm)
SC740E013 / SC740E014	20" (500 mm)	19.7" (500 mm)	5.0" (127 mm)	1.8" (45 mm)
SC740E015	24" (600 mm)	18.0" (450 mm)	...	0.0" (0 mm)

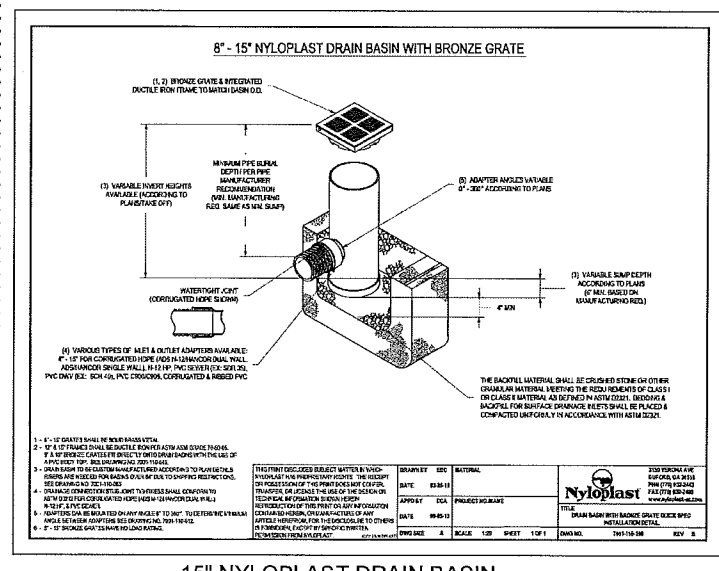
ALL STUBS EXCEPT FOR THE SC740E005 AND SC740E006 ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-822-2864.

*** FOR THE SC740E011 THE 20" (500 mm) STUBS LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 1.5" (38 mm) BACK. ALL MATERIAL SHOULD BE REMOVED FROM BELOW THE 12" (300 mm) SO THAT THE FITTING SETS LEVEL.**

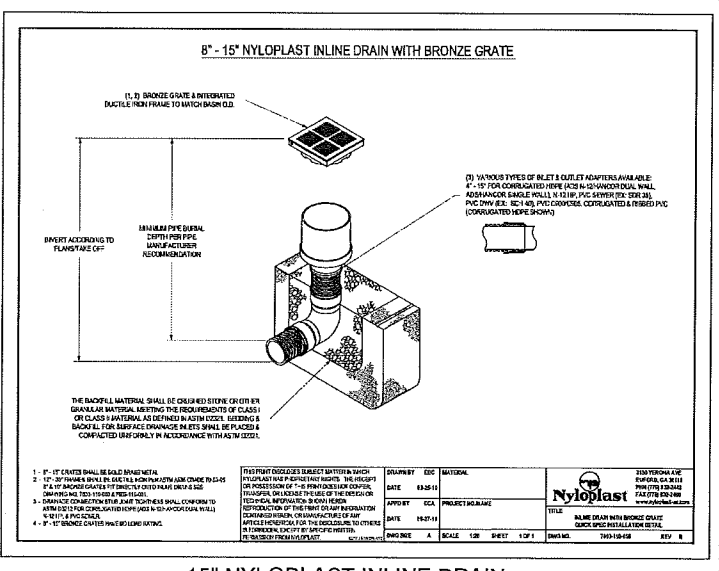
NOTE: ALL DIMENSIONS ARE NOMINAL.



TD - 6 INSTALLATION DETAILS
N.T.S.



15" NYLOPLAST DRAIN BASIN (OR APPROVED EQUAL)
N.T.S.



15" NYLOPLAST INLINE DRAIN (OR APPROVED EQUAL)
N.T.S.

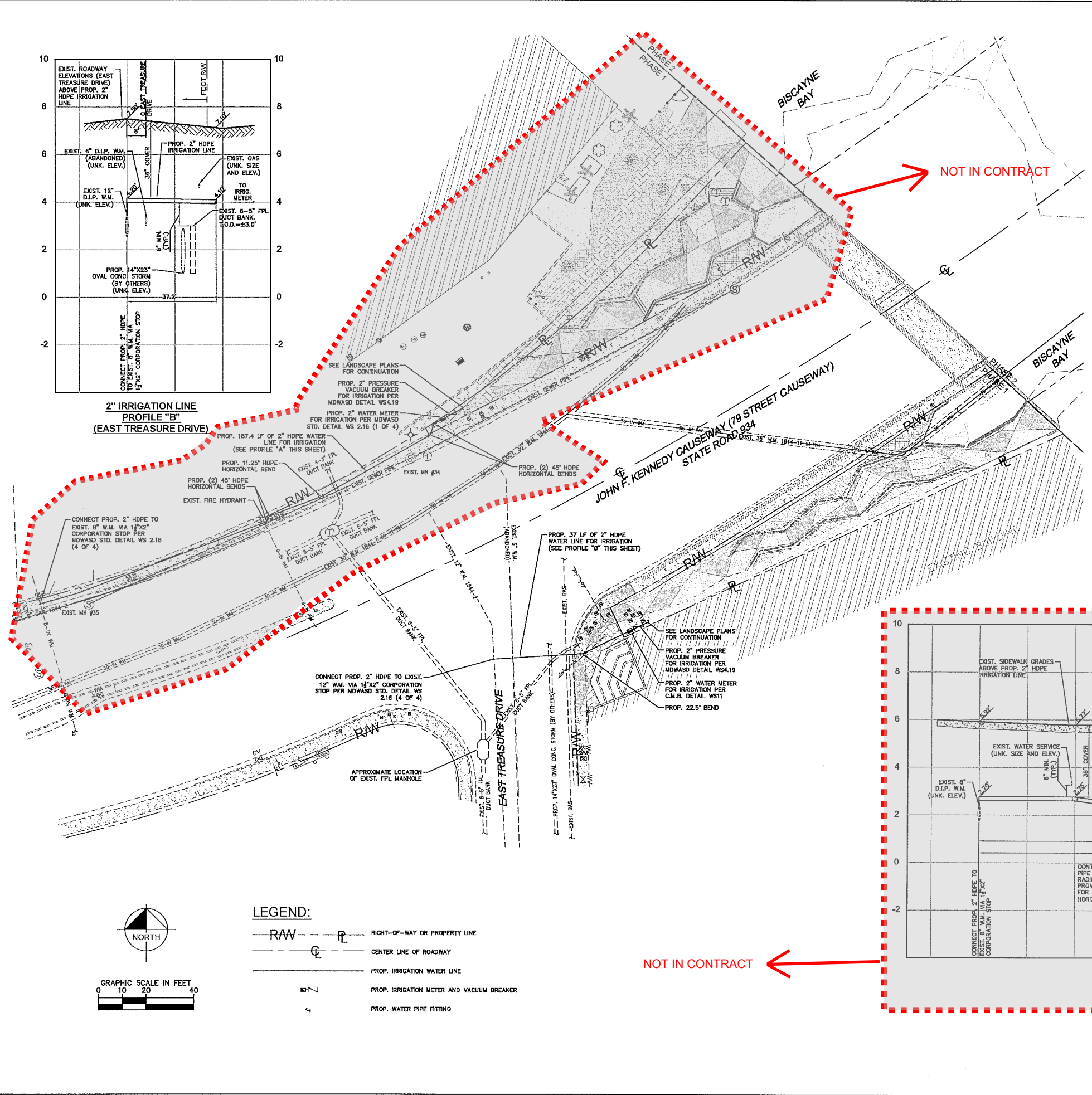
ALBERTO P. HERRERA
LICENSED PROFESSIONAL ENGINEER
No. 59357
FLORIDA
DESIGNED BY: [Signature]
SCALE: 1/8" = 1'-0"
DATE: 03/09/2015
DRAWN BY: [Signature]
CHECKED BY: [Signature]

BAYWALK PLAZA
PREPARED FOR
NORTH BAY VILLAGE
NORTH BAY VILLAGE
FLORIDA

SHEET NUMBER
C-302

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Plotted By: Kumbhakar, Prity
 Sheet: S:\BAYWALK PLAZA - Layout-C-400 WATER AND IRRIGATION PLAN - May 09, 2016 05:08:20pm
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GENERAL NOTES

1. THE CONTRACTOR SHALL MAKE EVERY REASONABLE EFFORT TO PERFORM THE WORK AND MAINTAIN SAFETY TO THE PUBLIC AND WORKERS, AND THE PROTECTION OF PROPERTY THROUGHOUT CONSTRUCTION. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH OSHA STANDARDS, AS APPLICABLE. CONTRACTOR MUST COMPLY WITH TRENCH SAFETY ACT.
2. ALL UTILITY CROSSING LINES IDENTIFIED ON PLANS AND PROFILES ARE BASED ON BEST AVAILABLE INFORMATION. CONTRACTOR SHALL VERIFY UTILITY INFORMATION WITH APPROPRIATE UTILITIES AND SUNSHINE STATE ONE CALL CENTER OF FLORIDA 811. CONTRACTOR TO INCLUDE ON AS-BUILTS ACCURATE ELEVATION AND LOCATION OF ALL UTILITY CONFLICTS.
3. ALL UTILITIES DAMAGED BY CONSTRUCTION MUST BE PROMPTLY REPAIRED TO THE CONDITION EXISTING PRIOR TO THE DAMAGING OF THE UTILITY. REPAIRS ARE INCIDENTAL TO THE INSTALLATION OF THE MAIN AND EXTENSIONS AND SHALL BE REPAIRED AT NO COST TO THE OWNER.
4. ALL EXISTING MANHOLES, ELECTRIC BOXES, METER BOXES, AND VALVE BOXES SHALL BE ADJUSTED TO THE PROPOSED GRADE.
5. PROPERTY DAMAGE RESULTING FROM WORK REQUIRED BY THIS CONTRACT SHALL BE CLEANED UP, REPAIRED OR REPLACED AT NO COST TO OWNER.
6. CONTRACTOR SHALL PROVIDE ALL MAINS, ALL FITTINGS, ATTACHMENTS, AND EQUIPMENT REQUIRED TO PERFORM TESTING PER M-DWASD STANDARDS. PIPE AND FITTINGS SHALL BE RESTRAINED IN ACCORDANCE WITH M-DWASD STANDARD DETAIL GS 2.0 (1 THRU 5 OF 5)
7. THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF ALL INSPECTIONS.
8. ALL TRENCHES TO BE OVER-EXCAVATED A MINIMUM OF 6" TO PROVIDE FOR INSTALLATION OF ROCK BEDDING IN ACCORDANCE WITH M-DWASD STANDARDS.
9. SURFACE RESTORATION, PAVEMENT REPLACEMENT, SIDEWALK REPLACEMENT, TRENCH BACKFILLING AND COMPACTION SHALL COMPLY WITH M-DWASD STANDARD DETAILS GS1.9, SS18.0, A1.0, A1.1 AND A4.0, M-DWASD STANDARD DETAIL R2.1 AND THE APPLICABLE CURRENT CITY OF MIAMI PUBLIC WORKS, M-DWASD AND FDOT STANDARDS.
10. THE APPROXIMATE LOCATION OF EXISTING UTILITIES SHOWN ON THE PLANS WERE PROVIDED BY THE RESPECTIVE UTILITY COMPANIES. THE EXACT HORIZONTAL AND VERTICAL LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. IN ADDITION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING IF "OTHER" UTILITIES (NOT SHOWN IN THE PLANS) EXIST WITHIN THE AREA OF CONSTRUCTION. SHOULD THERE BE UTILITY CONFLICTS THAT WERE NOT ANTICIPATED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
11. THE PERMITTEE WILL ENSURE THAT NO UNSAFE AREA(S) FOR PEDESTRIAN WILL REMAIN DURING ANY TIME OF CONSTRUCTION. PEDESTRIAN CONTROL FOR CLOSURE OF ROADS AND SIDEWALKS SHALL BE IN ACCORDANCE WITH THE F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS INDEX SERIES 600.
12. ACCESS TO REMAIN OPEN AT ALL TIMES, THE PERMITTEE SHALL PROVIDE AND MAINTAIN SAFE TEMPORARY ACCESS TO ALL ADJACENT PROPERTY AT ALL TIMES AND SHALL MAINTAIN ACCOMMODATIONS FOR INTERSECTING AND CROSSING TRAFFIC WITHIN THE CONSTRUCTION ZONE. NO ROAD OR STREET CROSSING SHALL BE BLOCKED OR UNDULY RESTRICTED AS DETERMINED BY THE ENGINEER.
13. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE WORK SITE DURING THE CONSTRUCTION PERIOD AND WILL RETURN TO AGENCY UPON COMPLETION IN CONDITION THAT WILL MEET THE FDOT STANDARD REQUIREMENTS.
14. CONTRACTOR SHALL NOTIFY THE CITY OF NORTH BAY VILLAGE AND THE ENGINEER OF RECORD IN CASE OF ANY CONFLICT AND A FIELD CHANGE MUST BE SUBMITTED FOR APPROVAL.

No.	REVISIONS	DATE	BY

Albert P. Herrera
 LICENSED PROFESSIONAL ENGINEER
 No. 59347
 STATE OF FLORIDA
 LICENSE EXPIRES 08/31/2022

Kimley»Horn
 2015 KIMLEY-HORN AND ASSOCIATES, INC.
 1227 BRICKLEY AVENUE, SUITE 400, MIAMI, FL 33131
 PHONE: 305-673-2025
 WWW.KIMLEY-HORN.COM CA 00000896

KHA PROJECT: 04-31-38022
 DATE: 04-31-2022
 SCALE: AS SHOWN
 DESIGNED BY: ALBERTO P. HERRERA
 DRAWN BY: JEFFREY W. HARRIS
 CHECKED BY: JEFFREY W. HARRIS

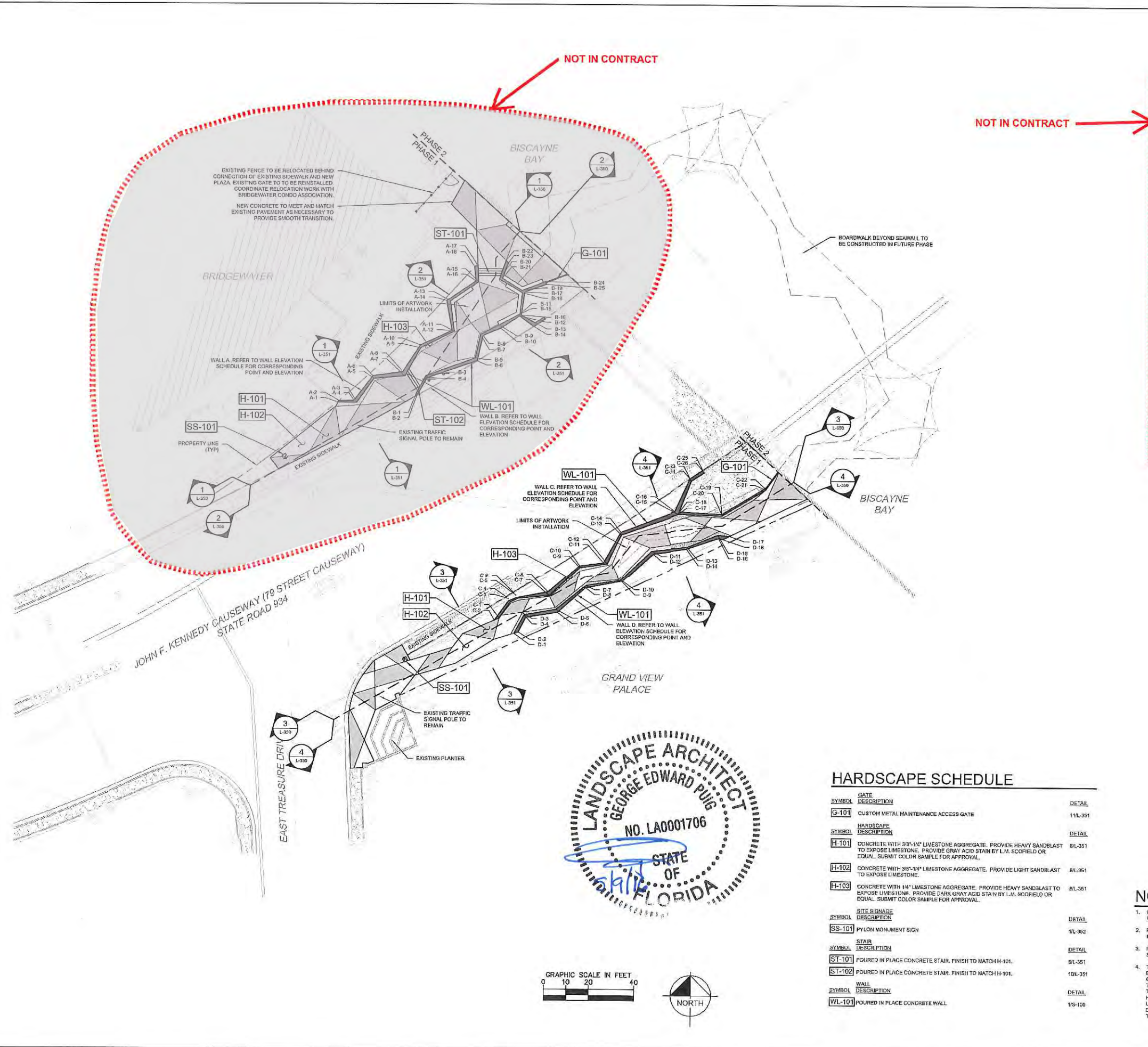
WATER AND IRRIGATION PLAN

BAYWALK PLAZA
 PREPARED FOR
 NORTH BAY VILLAGE
 NORTH BAY VILLAGE
 FLORIDA

SHEET NUMBER
C-400

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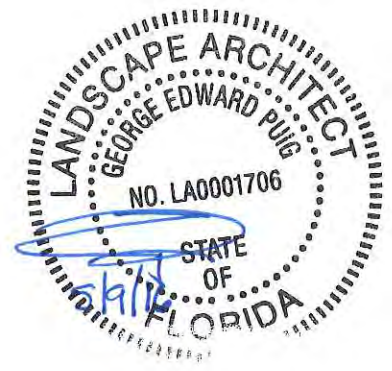
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WALL ELEVATION SCHEDULE				
	POINT #	INSIDE TOP OF WALL ELEVATION	OUTSIDE TOP OF WALL ELEVATION	FINISH CHANGE ELEVATION
WALL A	A-1	9.00	-	FINISH GRADE
	A-2	-	9.30	-
	A-3	10.00	10.20	9.20
	A-4	-	10.20	9.60
	A-5	10.00	10.20	9.60
	A-6	-	10.20	-
	A-7	10.50	-	10.00
	A-8	-	10.70	-
	A-9	8.50	-	7.50
	A-10	-	8.70	-
	A-11	8.00	-	8.50
	A-12	-	9.20	-
	A-13	10.00	-	7.25
A-14	-	13.00	-	
A-15	6.50	-	7.75	
A-16	-	8.0	-	
A-17	5.00	-	8.20	
A-18	-	6.25	-	
A-19	11.00	-	10.00	
B-1	-	11.50	-	
B-2	-	11.50	-	
B-3	11.00	-	8.75	
B-4	-	12.13	-	
B-5	12.00	-	4.50	
B-6	-	12.50	-	
B-7	11.00	-	8.00	
B-8	-	12.00	-	
B-9	12.50	-	7.50	
B-10	-	12.80	-	
B-11	11.00	-	7.00	
B-12	-	11.50	-	
B-13	MATCH EXISTING	-	-	
B-14	-	MATCH EXISTING	-	
B-15	6.48	-	7.00	
B-16	-	9.00	-	
B-17	-	9.00	-	
B-18	8.40	-	7.25	
B-19	9.00	-	8.00	
B-20	9.40	-	7.50	
B-21	9.40	-	8.50	
B-22	7.00	-	6.00	
B-23	7.20	-	6.00	
B-24	8.0	-	8.50	
WALL B	B-25	11.00	-	9.00
	C-1	-	11.00	-
	C-2	12.70	-	10.50
	C-3	-	12.00	-
	C-4	-	12.00	-
	C-5	12.70	-	9.84
	C-6	-	12.00	-
	C-7	12.60	-	8.00
	C-8	-	13.00	-
	C-9	13.00	-	10.00
	C-10	-	13.00	-
	C-11	13.00	-	9.00
	C-12	-	13.00	-
C-13	13.00	-	8.00	
C-14	-	13.00	-	
C-15	10.50	-	8.75	
C-16	-	11.00	-	
C-17	8.00	-	6.75	
C-18	-	10.00	-	
C-19	10.50	-	8.25	
C-20	7.00	-	11.50	
C-21	8.00	-	8.00	
C-22	-	9.50	-	
C-23	MATCH EXISTING	MATCH EXISTING	-	
C-24	MATCH EXISTING	MATCH EXISTING	-	
C-25	MATCH EXISTING	MATCH EXISTING	-	
C-26	MATCH EXISTING	MATCH EXISTING	-	
D-1	8.00	-	8.50	
D-2	-	9.30	-	
D-3	10.00	-	9.00	
D-4	-	10.50	-	
D-5	8.00	-	FINISH GRADE	
D-6	-	8.00	-	
D-7	5.00	-	FINISH GRADE	
D-8	-	9.30	-	
D-9	7.50	-	6.00	
D-10	-	7.70	-	
D-11	7.30	-	FINISH GRADE	
D-12	-	7.50	-	
D-13	7.00	-	FINISH GRADE	
D-14	-	7.30	-	
D-15	6.80	-	6.25	
D-16	-	6.30	-	
D-17	8.00	-	5.50	
D-18	-	6.30	-	
WALL C	G-1	11.00	-	9.00
	G-2	-	11.00	-
	G-3	12.70	-	10.50
	G-4	-	12.00	-
	G-5	12.70	-	9.84
	G-6	-	12.00	-
	G-7	12.60	-	8.00
	G-8	-	13.00	-
	G-9	13.00	-	10.00
	G-10	-	13.00	-
	G-11	13.00	-	9.00
	G-12	-	13.00	-
	G-13	13.00	-	8.00
G-14	-	13.00	-	
G-15	10.50	-	8.75	
G-16	-	11.00	-	
G-17	8.00	-	6.75	
G-18	-	10.00	-	
G-19	10.50	-	8.25	
G-20	7.00	-	11.50	
G-21	8.00	-	8.00	
G-22	-	9.50	-	
WALL D	D-19	-	7.70	-
	D-20	7.30	-	FINISH GRADE
	D-21	-	7.50	-
	D-22	7.00	-	FINISH GRADE
	D-23	-	7.30	-
	D-24	6.80	-	6.25
	D-25	-	6.30	-
	D-26	8.00	-	5.50
	D-27	-	6.30	-

HARDSCAPE SCHEDULE

SYMBOL	GATE DESCRIPTION	DETAIL
G-101	CUSTOM METAL MAINTENANCE ACCESS GATE	11/L-351
SYMBOL	HARDSCAPE DESCRIPTION	DETAIL
H-101	CONCRETE WITH 3/8"-1/4" LIMESTONE AGGREGATE. PROVIDE HEAVY SANDBLAST TO EXPOSE LIMESTONE. PROVIDE GRAY ACID STAIN BY L.M. SCOFIELD OR EQUAL. SUBMIT COLOR SAMPLE FOR APPROVAL.	8/L-351
H-102	CONCRETE WITH 3/8"-1/4" LIMESTONE AGGREGATE. PROVIDE LIGHT SANDBLAST TO EXPOSE LIMESTONE.	8/L-351
H-103	CONCRETE WITH 1/4" LIMESTONE AGGREGATE. PROVIDE HEAVY SANDBLAST TO EXPOSE LIMESTONE. PROVIDE DARK GRAY ACID STAIN BY L.M. SCOFIELD OR EQUAL. SUBMIT COLOR SAMPLE FOR APPROVAL.	8/L-351
SYMBOL	SITE SIGNAGE DESCRIPTION	DETAIL
SS-101	PYLON MONUMENT SIGN	1/L-352
SYMBOL	STAIR DESCRIPTION	DETAIL
ST-101	POURED IN PLACE CONCRETE STAIR. FINISH TO MATCH H-101.	9/L-351
ST-102	POURED IN PLACE CONCRETE STAIR. FINISH TO MATCH H-101.	10/L-351
SYMBOL	WALL DESCRIPTION	DETAIL
WL-101	POURED IN PLACE CONCRETE WALL	10/S-100



DATE: _____ BY: _____

REVISIONS: _____

NO. _____

Kimley»Horn

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 1221 BRICKELL AVENUE, SUITE 400, MIAMI, FL 33131
 WWW.KIMLEY-HORN.COM CA 00000696

HARDSCAPE PLAN

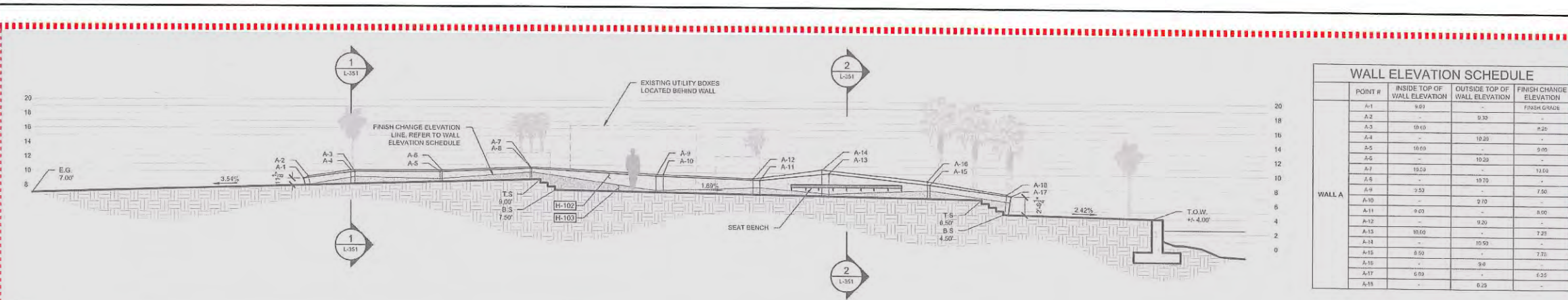
BAYWALK PLAZA
 PREPARED FOR
NORTH BAY VILLAGE

SHEET NUMBER
L-300

DATE: 5/5/2016
 CHECKED BY: JRP
 DRAWN BY: KHA
 DESIGNED BY: KHA
 SCALE: AS SHOWN
 DATE: 07/30/2015
 PROJECT: 043135022

- ### NOTES
- CONTRACTOR TO PROVIDE SUBMITTAL FOR REVIEW AND APPROVAL PRIOR TO POURING QUALITY CONTROL MOCK UPS.
 - PROVIDE 4' X 4' QUALITY CONTROL MOCK UP OF EACH CONCRETE JOINT, COMPLETE WITH COLOR, FINISH TECHNIQUES, SAWCUT JOINTS AND EXPANSION JOINTS AS SPECIFIED.
 - PROVIDE GLAZE AND SEAL PENETRATING CONCRETE SEALER ON ALL CONCRETE SURFACES.
 - THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATIONS OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST THE EXACT FIELD LOCATION OF THE UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.

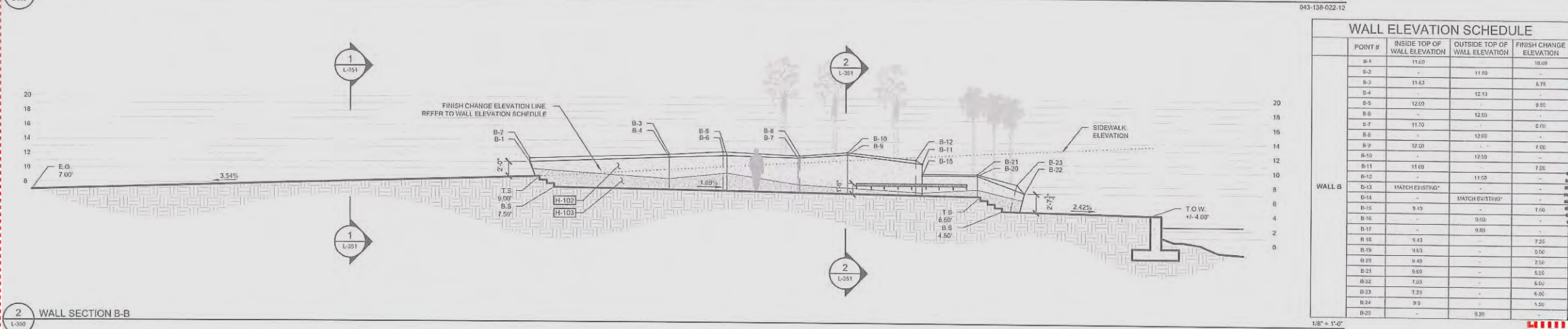
Plotted by: [redacted], Ed. [redacted], July 31, 2015, 10:55:39am. K:\SAR_LRC\043138022 - Baywalk Plaza\CAD\PlanSheet\L-350_HARDSCAPE_DETAILS.dwg, L-350_HARDSCAPE_DETAILS.dwg, 043138022.dwg
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WALL ELEVATION SCHEDULE

POINT #	INSIDE TOP OF WALL ELEVATION	OUTSIDE TOP OF WALL ELEVATION	FINISH CHANGE ELEVATION
A-1	9.00	-	-
A-2	-	9.30	-
A-3	9.00	-	9.20
A-4	-	10.20	-
A-5	10.00	-	9.00
A-6	-	10.20	-
A-7	10.00	-	10.00
A-8	9.50	-	7.50
A-9	9.00	-	8.00
A-10	-	9.20	-
A-11	10.00	-	7.20
A-12	-	10.50	-
A-13	8.00	-	7.30
A-14	-	9.4	-
A-15	6.00	-	6.25
A-16	-	6.25	-
A-17	6.00	-	6.25
A-18	-	6.25	-

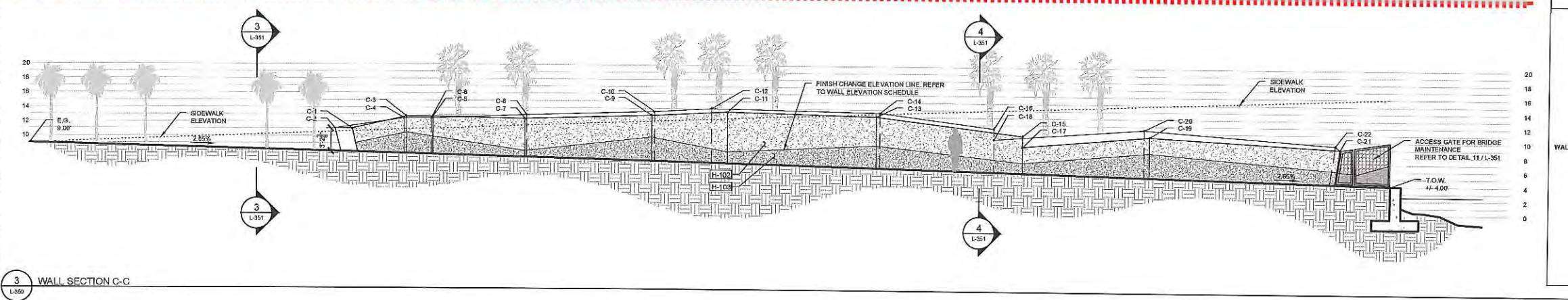
1 WALL SECTION A-A



WALL ELEVATION SCHEDULE

POINT #	INSIDE TOP OF WALL ELEVATION	OUTSIDE TOP OF WALL ELEVATION	FINISH CHANGE ELEVATION
B-1	11.00	-	10.00
B-2	-	11.50	-
B-3	11.63	-	6.75
B-4	-	12.10	-
B-5	12.00	-	9.50
B-6	-	12.50	-
B-7	11.70	-	6.00
B-8	-	12.00	-
B-9	12.00	-	7.00
B-10	-	12.50	-
B-11	11.00	-	7.00
B-12	-	11.50	-
B-13	MATCH EXISTING	MATCH EXISTING	-
B-14	MATCH EXISTING	MATCH EXISTING	-
B-15	9.10	-	7.00
B-16	-	9.00	-
B-17	-	9.50	-
B-18	9.10	-	7.25
B-19	9.10	-	5.50
B-20	9.10	-	7.50
B-21	9.50	-	5.50
B-22	7.00	-	6.00
B-23	7.20	-	6.00
B-24	9.0	-	5.50
B-25	-	9.20	-

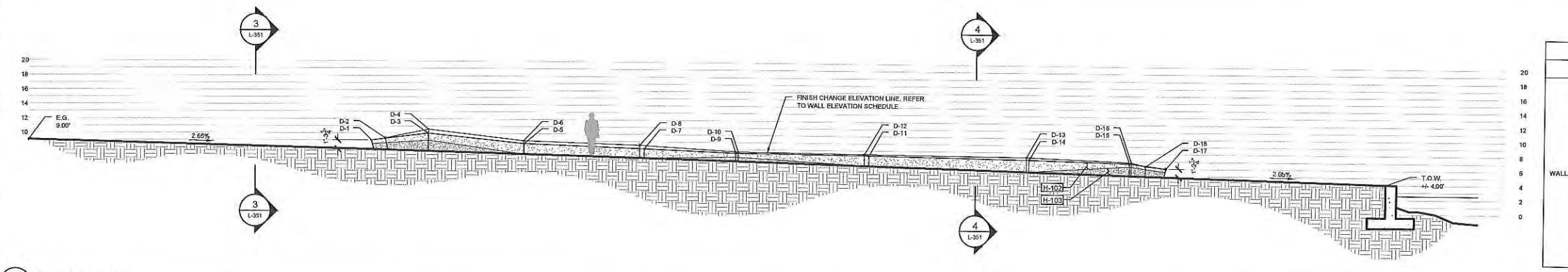
2 WALL SECTION B-B



WALL ELEVATION SCHEDULE

POINT #	INSIDE TOP OF WALL ELEVATION	OUTSIDE TOP OF WALL ELEVATION	FINISH CHANGE ELEVATION
C-1	11.00	-	9.00
C-2	-	11.50	-
C-3	12.70	-	10.50
C-4	-	12.50	-
C-5	12.70	-	9.94
C-6	-	12.50	-
C-7	12.50	-	8.00
C-8	-	13.00	-
C-9	13.00	-	10.00
C-10	-	13.50	-
C-11	13.50	-	8.50
C-12	-	14.00	-
C-13	13.00	-	9.00
C-14	-	13.00	-
C-15	10.50	-	6.75
C-16	-	11.50	-
C-17	9.00	-	6.75
C-18	-	10.00	-
C-19	10.50	-	9.25
C-20	11.00	-	11.00
C-21	9.00	-	6.00
C-22	-	9.00	-
C-23	MATCH EXISTING	MATCH EXISTING	-
C-24	MATCH EXISTING	MATCH EXISTING	-
C-25	MATCH EXISTING	MATCH EXISTING	-
C-26	MATCH EXISTING	MATCH EXISTING	-

3 WALL SECTION C-C



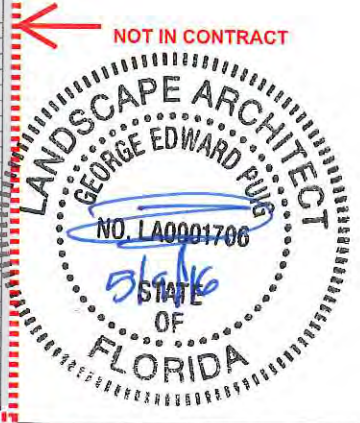
WALL ELEVATION SCHEDULE

POINT #	INSIDE TOP OF WALL ELEVATION	OUTSIDE TOP OF WALL ELEVATION	FINISH CHANGE ELEVATION
D-1	9.00	-	8.50
D-2	-	8.30	-
D-3	10.00	-	9.00
D-4	-	10.50	-
D-5	8.40	-	FINISH GRADE
D-6	-	9.00	-
D-7	8.00	-	FINISH GRADE
D-8	-	8.50	-
D-9	7.50	-	5.00
D-10	-	7.70	-
D-11	7.30	-	FINISH GRADE
D-12	-	7.00	-
D-13	7.00	-	FINISH GRADE
D-14	-	7.20	-
D-15	6.80	-	6.25
D-16	-	6.85	-
D-17	6.00	-	5.50
D-18	-	6.30	-

4 WALL SECTION D-D

FINISH SCHEDULE

SYMBOL	DESCRIPTION
H-102	CONCRETE WITH 3/8"-1/4" LIMESTONE AGGREGATE. PROVIDE LIGHT SANDBLAST TO EXPOSE LIMESTONE.
H-103	CONCRETE WITH 1/4" LIMESTONE AGGREGATE. PROVIDE HEAVY SANDBLAST TO EXPOSE LIMESTONE. PROVIDE DARK GRAY ACID STAIN BY L.M. SCOFIELD OR EQUAL. SUBMIT COLOR SAMPLE FOR APPROVAL.



NO.	REVISIONS	DATE	BY

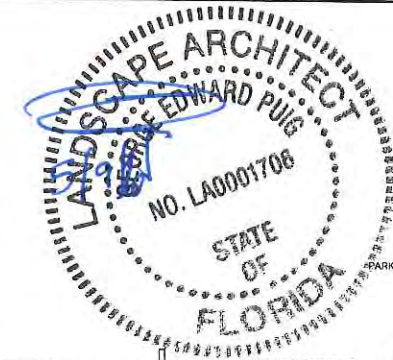
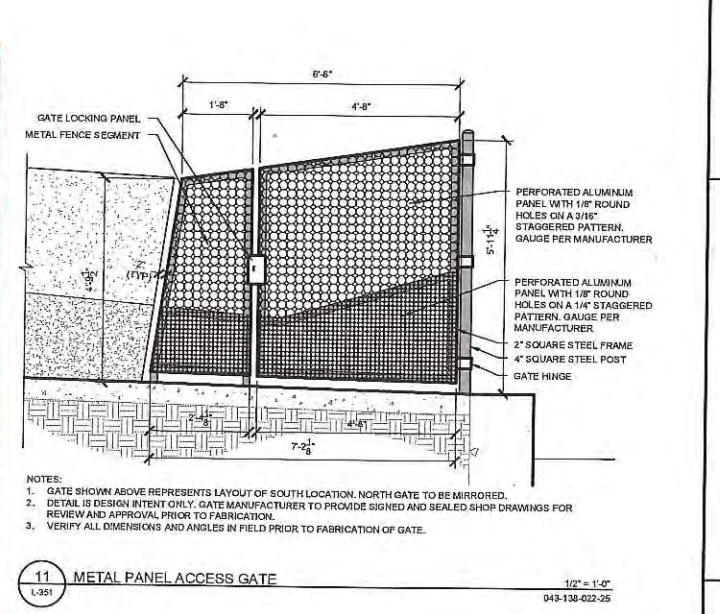
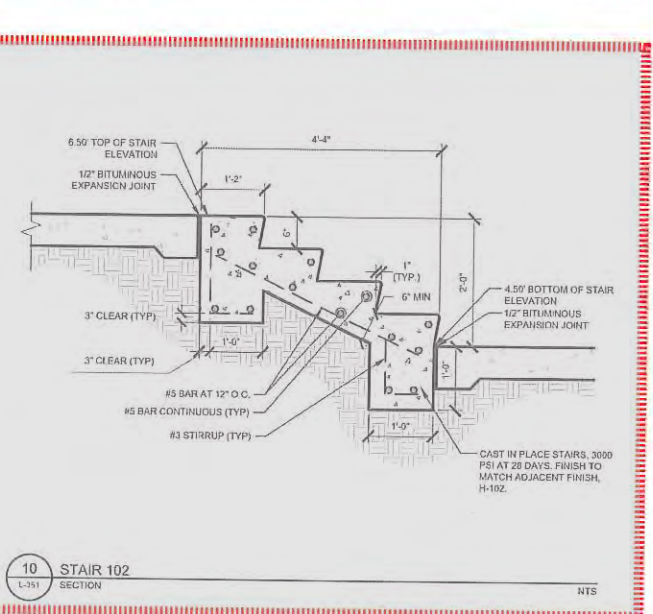
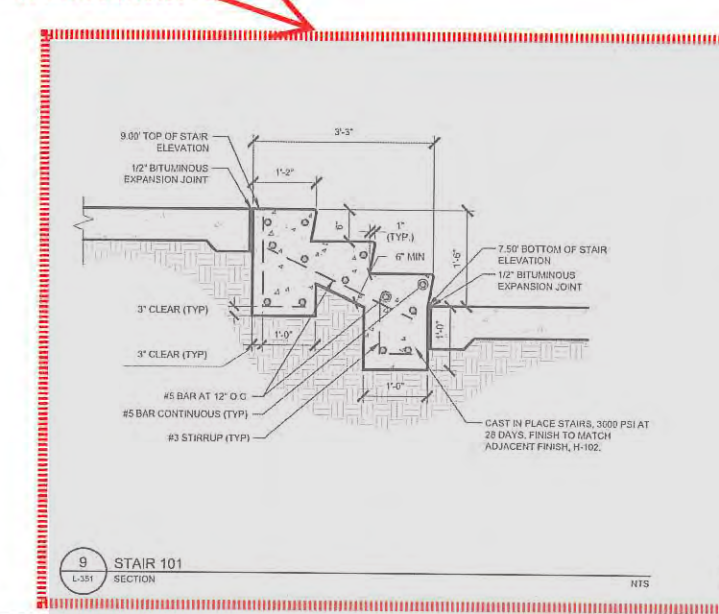
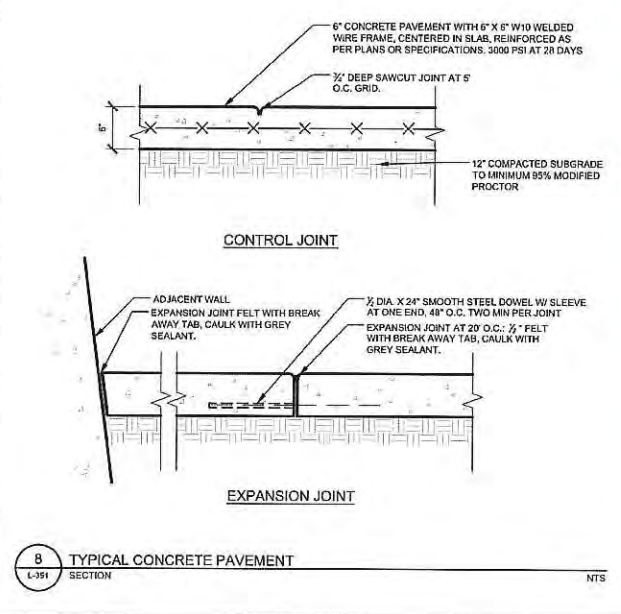
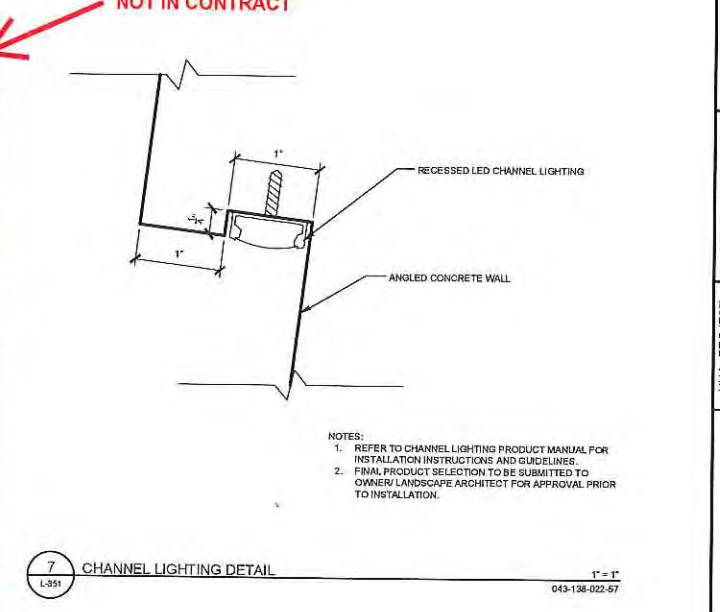
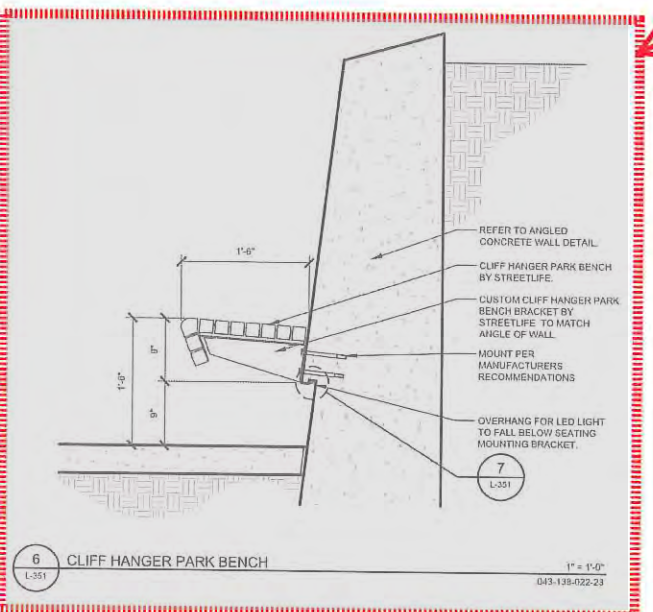
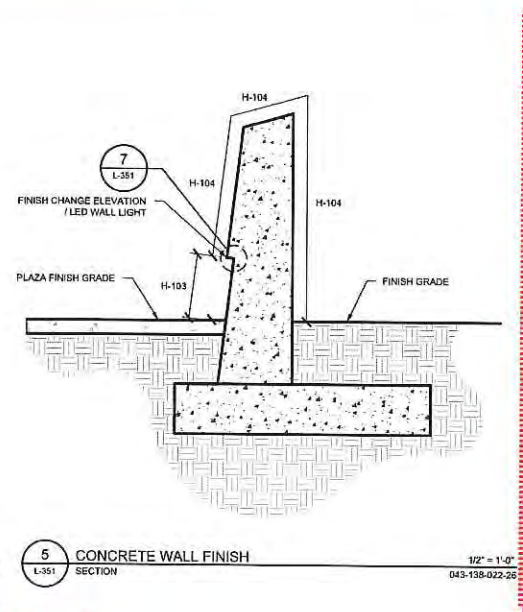
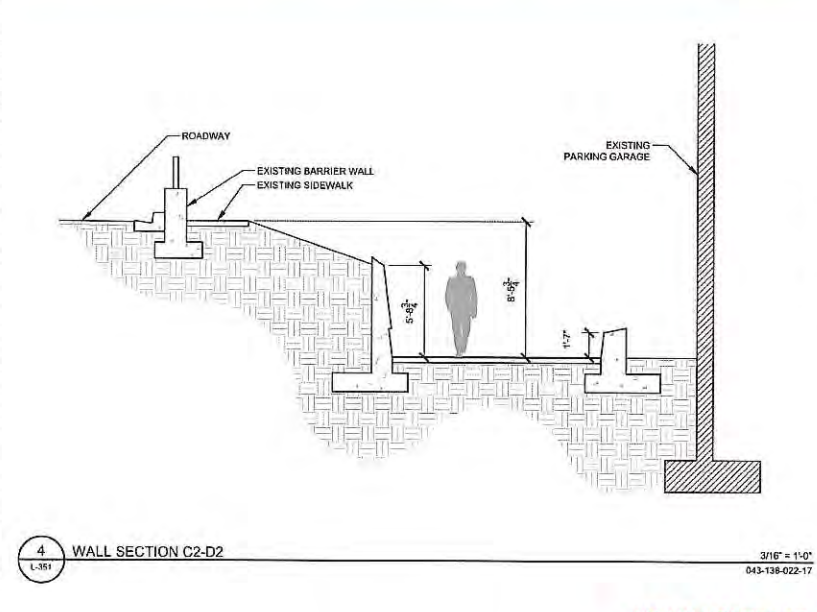
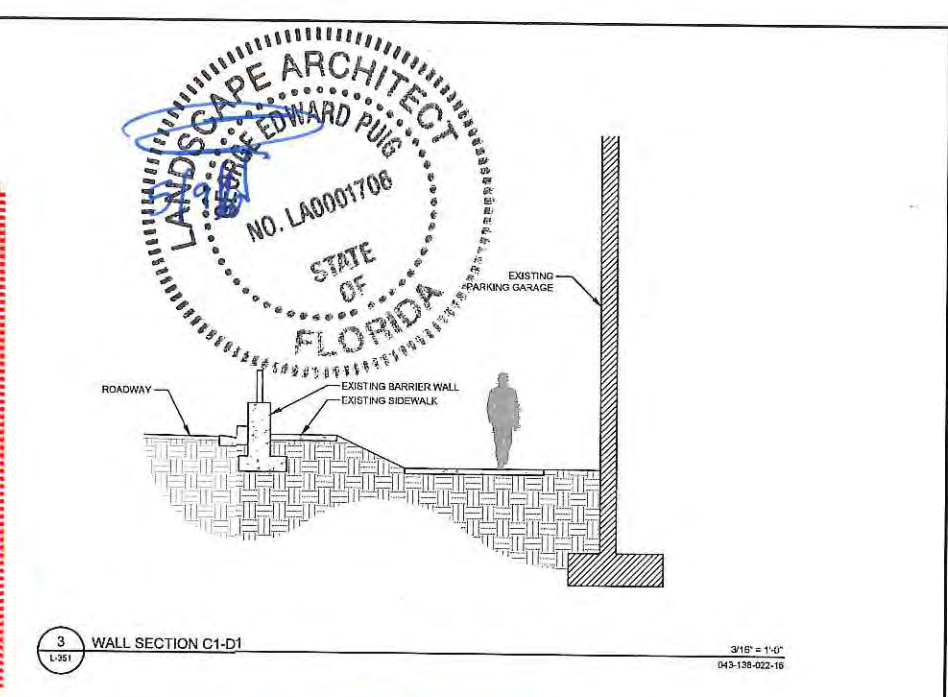
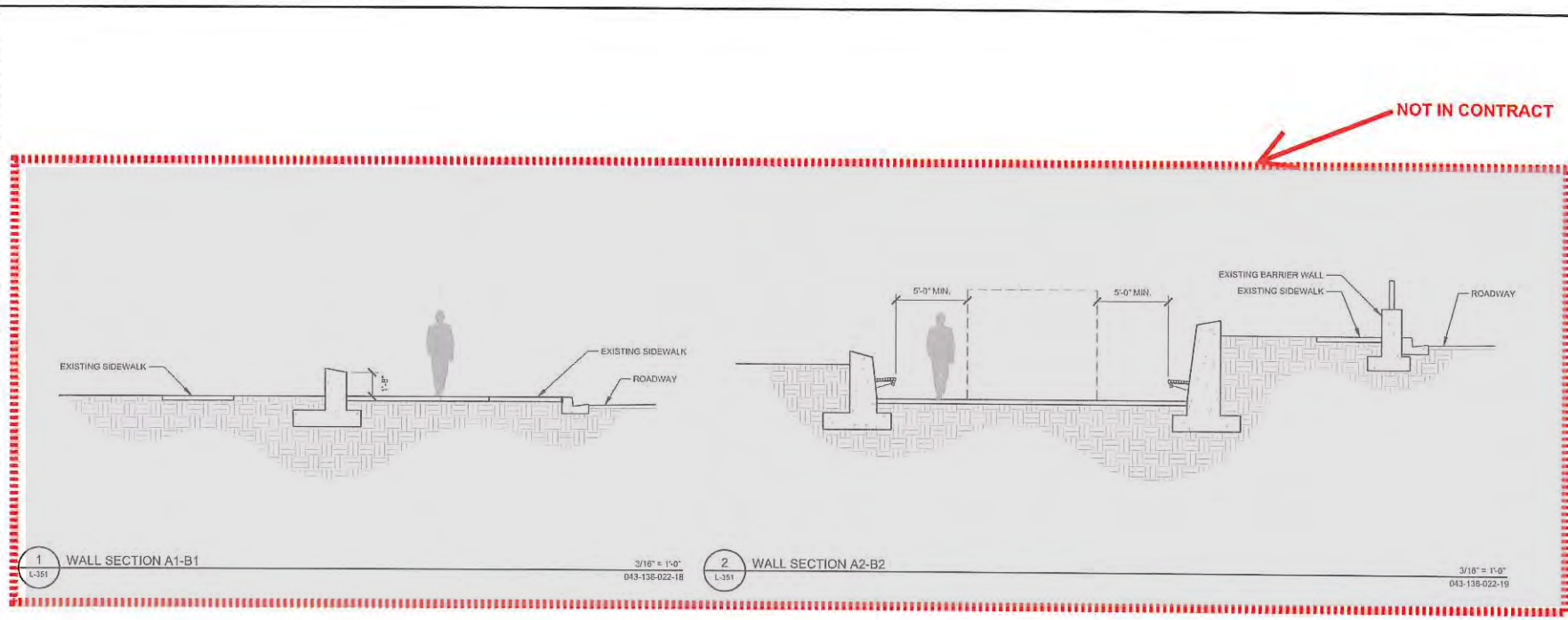
Kimley»Horn
 LANDSCAPE ARCHITECT
 GEORGE EDWARD PUG
 NO. LA0001706
 STATE OF FLORIDA

LICENSED PROFESSIONAL
 KHA PROJECT 043138022
 DATE 07/30/2015
 SCALE AS SHOWN
 DESIGNED BY KHA
 DRAWN BY END
 CHECKED BY JRP
 DATE 7/31/2015

HARDSCAPE DETAILS

BAYWALK PLAZA
 PREPARED FOR
NORTH BAY VILLAGE
 NORTH BAY VILLAGE

Plotted by: D:\admin, Ed_Sheet_Sat: Baywalk Plaza - L-351_HARDSCAPE DETAILS - July 31, 2015, 10:55:42am
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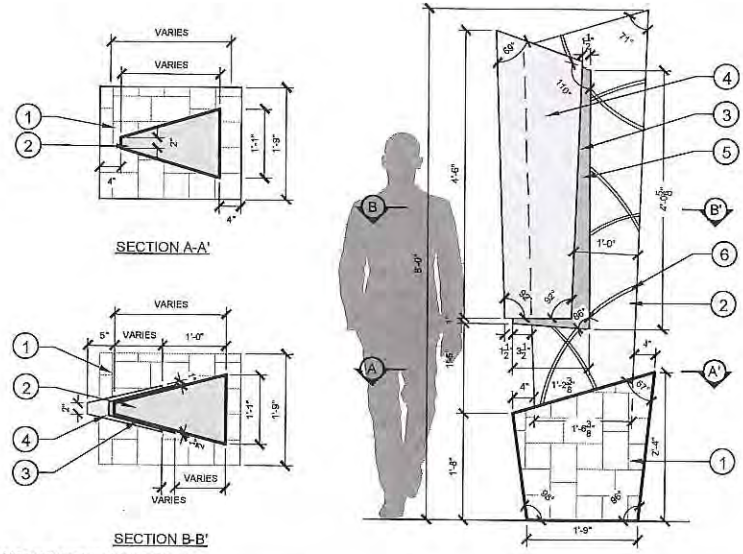
Kimley»Horn
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 WWW.KIMLEY-HORN.COM CA 0000696

LICENSED PROFESSIONAL
 KHA PROJECT 043138022
 DATE 07/30/2015
 SCALE AS SHOWN
 DESIGNED BY KHA
 DRAWN BY END
 CHECKED BY JRP
 DATE 7/31/2015
 GEORGE PUGH, P.L.A.
 FL LICENSE NUMBER LA0001706

HARDSCAPE DETAILS

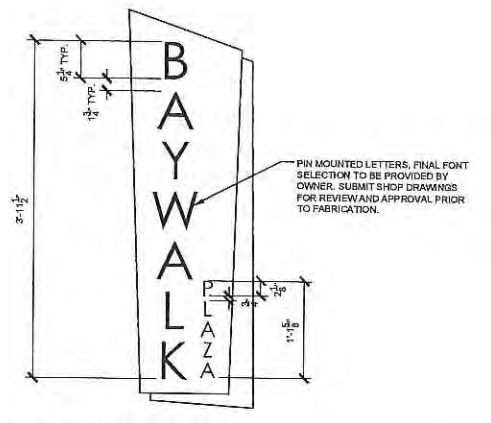
BAYWALK PLAZA
 PREPARED FOR
 NORTH BAY VILLAGE
 NORTH BAY VILLAGE FL
 SHEET NUMBER
L-351

Plotted By: Dgm, Ed Sheet: 50: Baywalk Plaza - Layout: L-357 - Hardscape Details July 31, 2015 10:55:44am
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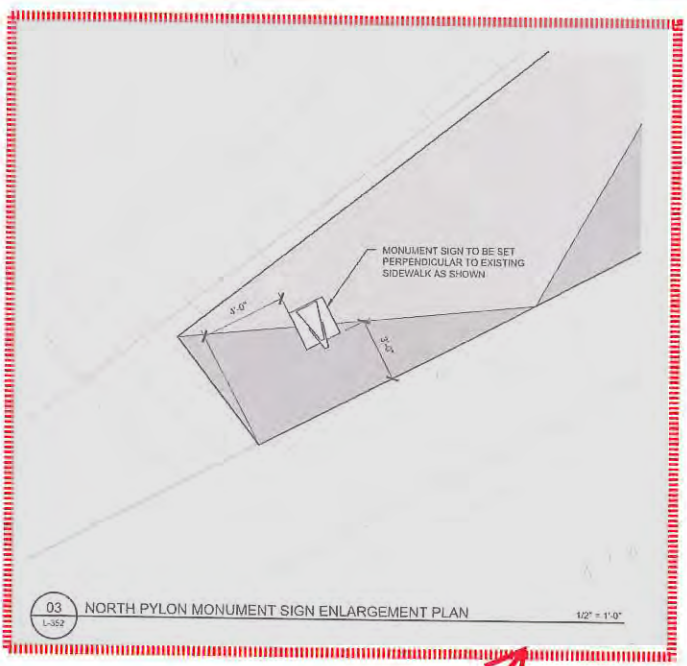
- 1 1'-9" X 1'-9" TAPERED CONCRETE BASE WITH 1" THICK KEYSTONE VENEER. VENEER TO BE APPLIED IN AGLAR PATTERN. ALL EXPOSED EDGES SHALL RECEIVE 1/4" BULLNOSE.
- 2 TAPERED WHITE CONCRETE PYLON
- 3 PAINTED METAL PANEL WITH FLUSH MOUNTED LETTERING
- 4 PAINTED METAL PANEL WITH FLUSH MOUNTED LETTERING
- 5 SIGNAGE COPY AREA. SEE L-352/2
- 6 LED LIGHT STRIP (TYP). PROVIDE 50% BLUE AND 50% GREEN LIGHTS.
- NOTES:
 1. DETAIL IS DESIGN INTENT ONLY.
 2. ALL MATERIALS TO BE SUBMITTED TO OWNER/LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
 3. CONTRACTOR TO PROVIDE SIGNED AND SEALED SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO FABRICATION. SHOP DRAWINGS SHALL INCLUDE FOOTING AND STRUCTURAL DESIGN OF ALL RELATED MONUMENT SIGN COMPONENTS.
 4. CONTRACTOR TO COORDINATE ELECTRICAL REQUIREMENTS AS NECESSARY.
 5. KEYSTONE VENEER TO MATCH FINISH OF KEYSTONE VENEER USED ON THE PRIVACY WALLS ALONG THE WESTERN PORTION OF JFK CAUSEWAY RIGHT-OF-WAY LANDSCAPE.

1/4" = 1'-0"
 043-138-022-58



NOTE: MONUMENT SIGNS ARE DOUBLE SIDED. PIN MOUNTED LETTERING TO BE INSTALLED ON BOTH SIDES OF PYLON.

1" = 1'-0"
 043-138-022-59

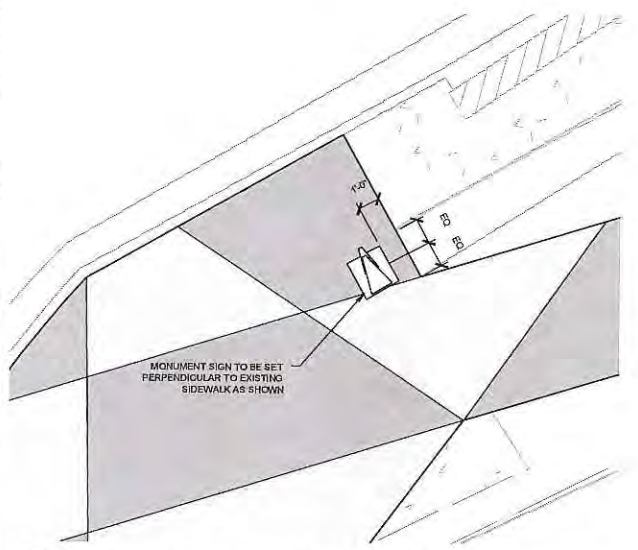


1/2" = 1'-0"
 043-138-022-60

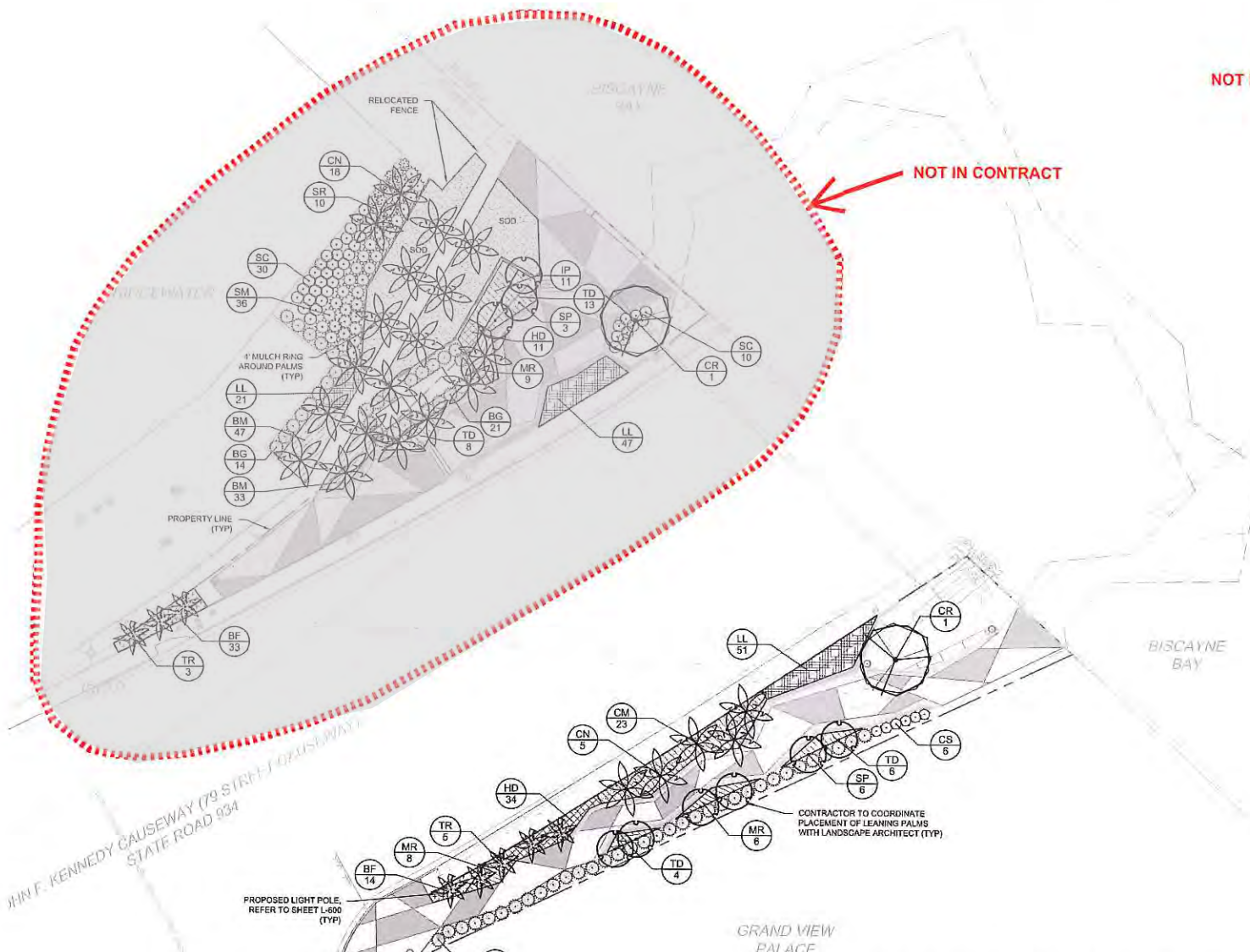
NOT IN CONTRACT

1 PYLON MONUMENT SIGN DETAIL
 L-352

04 SOUTH PYLON MONUMENT SIGN ENLARGEMENT PLAN
 L-352 1/2" = 1'-0"



SHEET NUMBER L-352	BAYWALK PLAZA PREPARED FOR NORTH BAY VILLAGE	HARDSCAPE DETAILS	KHA PROJECT 043138022	DATE 07/30/2015	SCALE AS SHOWN	DESIGNED BY KHA	DRAWN BY END	CHECKED BY JRP	DATE 7/31/2015	LICENSED PROFESSIONAL GEORGE PUGH, PLA FL LICENSE NUMBER LA0001706	Kimley»Horn © 2015 KIMLEY-HORN AND ASSOCIATES, INC. 1221 BRICHELL AVENUE, SUITE 400, MIAMI, FL 33131 PHONE: 305-673-2025 FAX: 305-673-4882 WWW.KIMLEY-HORN.COM CA 0000696	NO.	REVISIONS	DATE	BY



NOT IN CONTRACT

NOT IN CONTRACT

PLANT SCHEDULE: NORTH SIDE

TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	SIZE
	CN	19	COCOS NUCIFERA 'GREEN MALAYAN'	COCONUT PALM	F.G.	-	18' GW
	CR	1	CLUSIA ROSEA	PITCH APPLE	F.G.	3.5" CAL MIN	15' HT MIN
	SP	3	SABAL PALMETTO	CABBAGE PALM	F.G.	HEAVY	14'-20" CT VARIES, H.O.
	TR	3	THRINAX RADATA	FLORIDA THATCH PALM	F.G.	-	15' HT MIN
SHRUBS	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	SPACING	SIZE
	BG	35	SAMBUSA MALINGENSIS	SEABREEZE BAMBOO	3 GAL	SEE PLAN	6' HT MIN
	SC	40	SENA MEXICANA 'CHAPMANI'	BAHAMA CASSIA	3 GAL	SEE PLAN	15" FULL
	SM	35	SURIANA MARITIMA	BAY CEDAR	3 GAL	SEE PLAN	15" FULL
	SR	10	SERENOA REPENS	SAW PALMETTO	7 GAL	SEE PLAN	22" HT
ORNAMENTAL GRASSES	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	SIZE	SPACING
	MR	8	MUHLENBERGIA CAPILLARIS	PINK MUHLY GRASS	3 GAL	24" HT MIN	36" o.c.
	TD	31	TRIPSACUM DACTYLOIDES	DWARF FAKAHATCHEE GRASS	3 GAL	24" HT MIN	36" o.c.
GROUND COVERS	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	SIZE	SPACING
	BF	33	BORRICHIA FRUTESCENS	SEA OXEYE DAISY	1 GAL		24" o.c.
	BM	60	SALIS MARITIMA	SALT WORT	1 GAL		24" o.c.
	HD	11	HELIANTHUS DEBILIS	BEACH SUNFLOWER	1 GAL		24" o.c.
	IP	11	IPOMEA PES-CAPIRAE	RAILROAD VINE	1 GAL		30" o.c.
	LL	68	LIMONUM LATIFOLIUM	SEA LAVENDER	1 GAL		24" o.c.
SOOISEED	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	SIZE	SPACING
	SS	1,284 SF	STENOTAPHRUM SECUNDATUM	ST. AUGUSTINE TURF GRASS	900	900	

LANDSCAPE CODE REQUIREMENTS

PER MIAMI-DADE COUNTY

ZONING DISTRICT, OTHER
NET LOT AREA: 2 ACRES, 8,356 S.F.

CODE MINIMUM LANDSCAPE
A. LANDSCAPE TREE REQUIREMENTS = 28 TREES PER ACRE OF NET LOT AREA
2 ACRES X 28 TREES = 6 TREES REQUIRED
30% SHALL BE NATIVE = 2 NATIVE TREES REQUIRED
50% SHALL BE LOW MAINTENANCE AND DROUGHT TOLERANT = 3 TREES
*NO MORE THAN 30% SHALL BE PALMS

B. SHRUB REQUIREMENTS = 10 PER REQUIRED TREE
6 TREES REQUIRED X 10 = 60 SHRUBS REQUIRED
30% SHALL BE NATIVE SPECIES = 18 NATIVE SHRUBS
50% SHALL BE LOW MAINTENANCE AND DROUGHT TOLERANT = 30 SHRUBS
*NO MORE THAN 30% SHALL BE PALMS

NOTE:
*PALMS COUNT AS A TREE AT A 2:1 RATIO, IF AT TIME OF PLANTING THEY MEET 10" MIN. O.A.H OR MIN. CAL OF 3"

*80% OF REQUIRED TREES/SHRUBS MUST BE LISTED IN MIAMI-DADE LANDSCAPE MANUAL, MIAMI-DADE STREET TREE MASTER PLAN AND/OR UNIVERSITY OF FLORIDA'S LOW-MAINTENANCE LANDSCAPE PLANTS FOR SOUTH FLORIDA LIST.

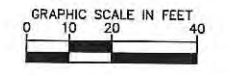
MINIMUM PLANT SIZE REQUIREMENTS:
A. TREES - MIN. 10' O.A.H. AND MIN. 2" CAL.
30% NATIVES CAN BE MIN. 8' O.A.H. AND 1.5" CAL.
B. SHRUBS - MIN. 18" HIGH WHEN MEASURED AFTER PLANTING

TREE MITIGATION CALCULATIONS

TOTAL TREE CANOPY TO BE REMOVED	8,792 SF
TREE CANOPY MITIGATION REQUIREMENTS	17,584 SF
TOTAL SPECIMEN TREE CANOPY TO BE REMOVED	1,570 SF
SPECIMEN TREE CANOPY MITIGATION REQUIREMENTS	6,280 SF
TOTAL MITIGATION CANOPY REQUIRED	23,864 SF

PLANT SCHEDULE: SOUTH SIDE

TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	SIZE
	CN	5	COCOS NUCIFERA 'GREEN MALAYAN'	COCONUT PALM	F.G.	-	18' GW
	CR	1	CLUSIA ROSEA	PITCH APPLE	F.G.	3.5" CAL MIN	15' HT MIN
	SP	8	SABAL PALMETTO	CABBAGE PALM	F.G.	HEAVY	14'-20" CT VARIES, H.O.
	TR	5	THRINAX RADATA	FLORIDA THATCH PALM	F.G.	-	15' HT MIN
SHRUBS	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	SPACING	SIZE
	BC	34	SAMBUSA MALINGENSIS	SEABREEZE BAMBOO	3 GAL	SEE PLAN	6' HT MIN
	CS	8	CLUSIA GUTTIFERA	SMALL-LEAF CLUSIA	3 GAL	SEE PLAN	24" FULL
ORNAMENTAL GRASSES	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	SIZE	SPACING
	MR	14	MUHLENBERGIA CAPILLARIS	PINK MUHLY GRASS	3 GAL	24" HT MIN	36" o.c.
	TD	10	TRIPSACUM DACTYLOIDES	DWARF FAKAHATCHEE GRASS	3 GAL	24" HT MIN	36" o.c.
GROUND COVERS	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	SIZE	SPACING
	BF	14	BORRICHIA FRUTESCENS	SEA OXEYE DAISY	1 GAL		24" o.c.
	CM	23	CARUSSA MACROCARPA	NATAL PLUM	3 GAL		48" o.c.
	HD	34	HELIANTHUS DEBILIS	BEACH SUNFLOWER	1 GAL		24" o.c.
	LL	51	LIMONUM LATIFOLIUM	SEA LAVENDER	1 GAL		24" o.c.



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LICENSED PROFESSIONAL
 GEORGE PUIG, P.L.A.
 FLORIDA LICENSE NUMBER
 LA0001706
 DATE: 7/30/2015

KHA PROJECT
 043138022
 DATE
 07/30/2015
 SCALE AS SHOWN
 DESIGNED BY KHA
 DRAWN BY JEB
 CHECKED BY JRP

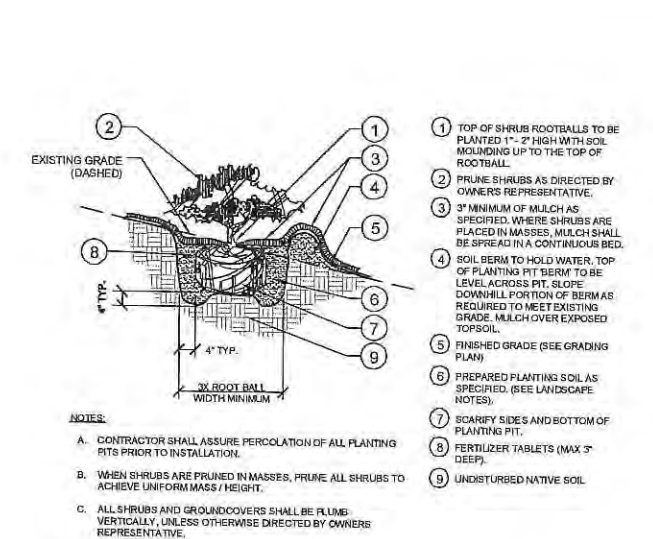
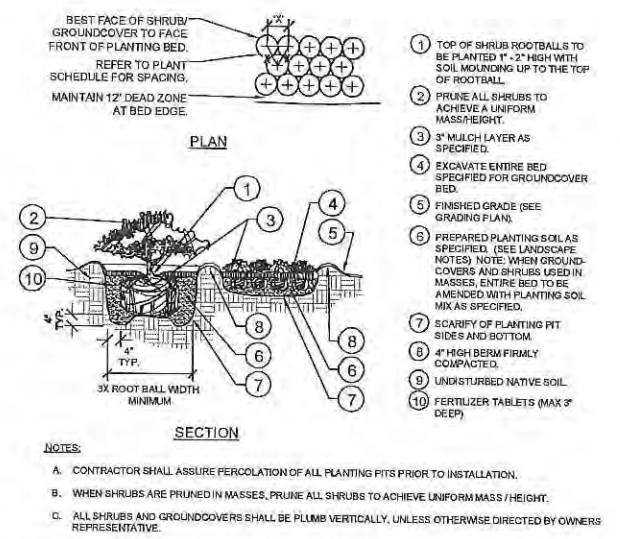
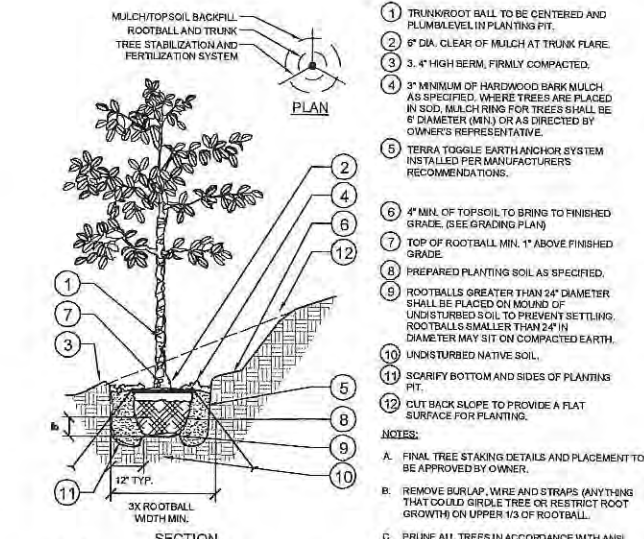
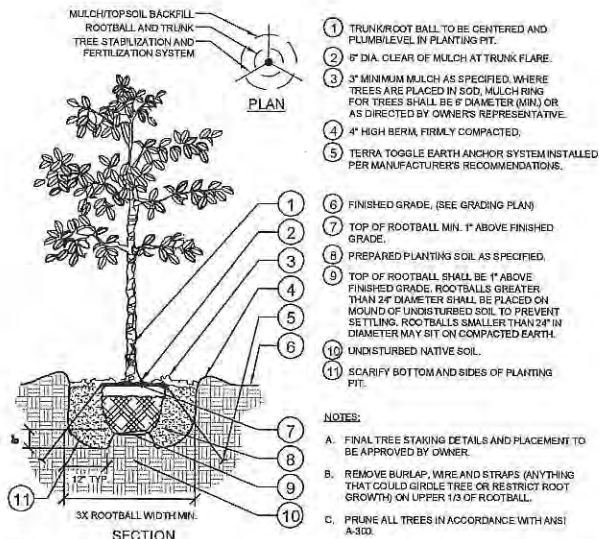
LANDSCAPE PLAN

BAYWALK PLAZA
 PREPARED FOR
 NORTH BAY VILLAGE

NORTH BAY VILLAGE
 SHEET NUMBER
L-400

NO.	REVISIONS	DATE	BY

Ruled by date. Michelle Shea, St. Boydevik Pico. L-451 LANDSCAPE DETAILS May 09, 2016 01:09:46pm. This document, together with the concept and design presented herein, is prepared for the use and client for which it was prepared. It is intended only for the specific project identified on this drawing and is not to be used for any other project without the written authorization and signature of Kimley-Horn and Associates, Inc. No liability shall be assumed by Kimley-Horn and Associates, Inc. for any and all uses of this document for any other project.

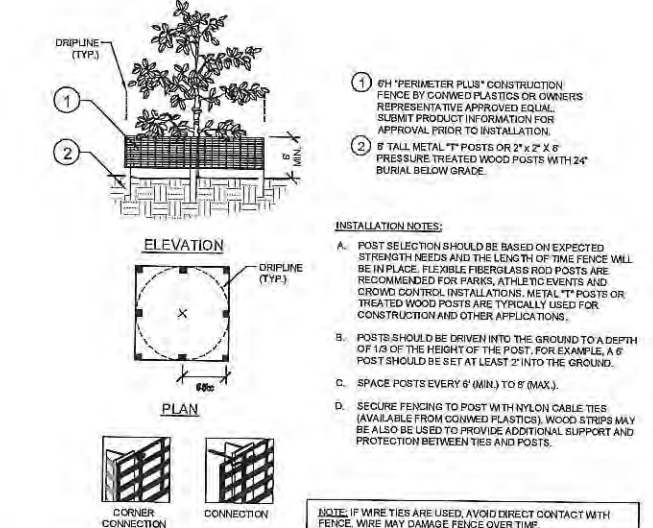
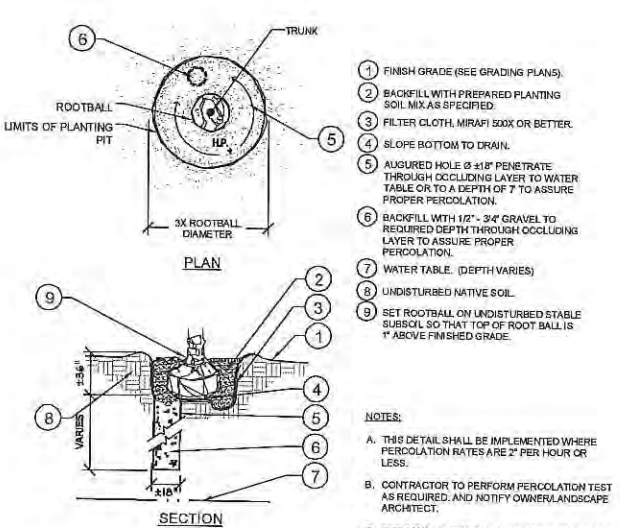
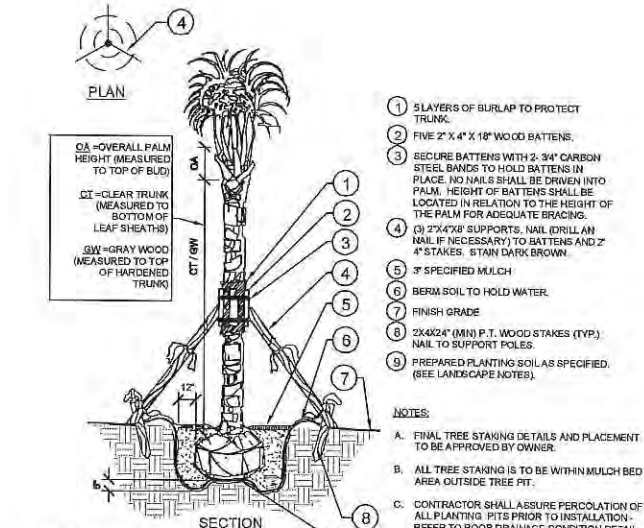
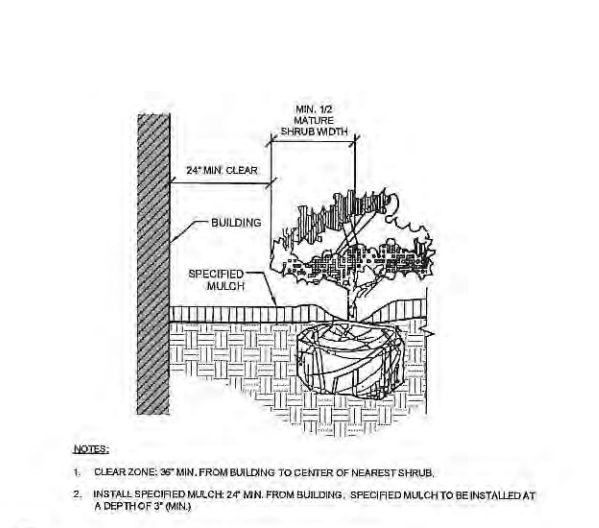


1 TYPICAL TREE PLANTING
SECTION / PLAN NTS

2 TYPICAL TREE PLANTING ON A SLOPE
SECTION / PLAN NTS

3 TYPICAL SHRUB/GROUNDCOVER PLANTING
SECTION / PLAN NTS

4 TYPICAL SHRUB/GROUNDCOVER PLANTING ON A SLOPE
SECTION NTS



5 TYPICAL PLANTINGS ADJACENT TO BUILDINGS
SECTION NTS

6 TYPICAL PALM PLANTING
SECTION / PLAN NTS

7 TYPICAL POOR DRAINAGE CONDITION
SECTION / PLAN NTS

8 TYPICAL TREE PROTECTION FENCING
ELEVATION / PLAN NTS

No.	REVISIONS	DATE	BY

Kimley Horn
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LICENSED PROFESSIONAL
KHA PROJECT: 043136022
DATE: 07/30/2015
SCALE: AS SHOWN
DESIGNED BY: KHA
DRAWN BY: JEB
CHECKED BY: JRP
DATE: 5/9/2016

LANDSCAPE DETAILS

BAYWALK PLAZA
PREPARED FOR
NORTH BAY VILLAGE

SHEET NUMBER
L-451



Project: Baywalk Plaza - 250 IRRIGATION NOTES AND DETAILS - May 08, 2016 - DT-12-21.rvt
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GENERAL IRRIGATION SPECIFICATIONS AND NOTES

- THE SYSTEM SHALL BE DESIGNED TO PROVIDE 100% COVERAGE. ANY CHANGES MADE IN THE LAYOUT DUE TO FIELD CONDITIONS SHALL BE IN ACCORDANCE WITH THESE STANDARDS.
- VERIFY LOCATIONS OF ALL UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF IRRIGATION SYSTEM. ALL UTILITIES AND STRUCTURES MAY NOT BE SHOWN ON THESE PLANS. CONTRACTOR SHALL FIELD VERIFY.
- CONTRACTOR TO FIELD VERIFY ALL POINT OF CONNECTION SOURCE INFORMATION INCLUDING PSI AND GPM PRIOR TO CONSTRUCTION.
- INSTALLATION OF WORK SHALL BE COORDINATED WITH OTHER CONTRACTORS IN SUCH A MANNER AS TO ALLOW FOR A SMOOTH AND ORDERLY COMPLETION OF ALL WORK ON-SITE.
- IRRIGATION DESIGN IS SCHEMATIC ONLY. FULL AND COMPLETE SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW BY THE OWNER'S REPRESENTATIVE.
- CONTRACTOR SHALL COORDINATE WITH THE PLANTING PLAN FOR PLANTER BED AND TREE LOCATIONS TO ENSURE ALL PLANT MATERIAL IS COVERED BY 100% HEAD-TO-HEAD IRRIGATION.
- CONTRACTOR SHALL PROVIDE "AS-BUILT" DRAWINGS OF THE FINAL INSTALLATION TO OWNER AT SUBSTANTIAL COMPLETION BEFORE RECEIVING FINAL PAYMENT.
- IRRIGATION CONTRACTOR TO PROVIDE POWER SUPPLY TO ELECTRIC CONTROLLERS.
- IRRIGATION CONTRACTOR SHALL SECURE ANY AND ALL NECESSARY PERMITS FOR THE WORK PRIOR TO COMMENCEMENT OF HIS OPERATIONS ON-SITE. COPIES OF THE PERMITS SHALL BE SENT TO THE OWNER/GENERAL CONTRACTOR. WORK IN THE R.O.W. SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF LOCAL AND/OR STATE JURISDICTION.
- IRRIGATION SYSTEM SHALL NOT BE INSTALLED THROUGH PRESERVED PLANT COMMUNITIES OR WITHIN WETLANDS OR THEIR ASSOCIATED BUFFERS.
- LOCATE ALL IRRIGATION LINES WITHIN LANDSCAPED AREAS WHENEVER POSSIBLE. ALL LINES UNDER PAVEMENT MUST BE SLEEVED. ALL VALVES SHALL BE LOCATED WITHIN LANDSCAPED AREAS, AS SPECIFIED.
- MAINLINE SHALL NOT BE LOCATED WITHOUT PRIOR APPROVAL OF THE OWNER'S REPRESENTATIVE.
- CONTRACTOR TO COORDINATE LOCATION OF ALL METERS AND BACKFLOW ASSEMBLIES WITH PROJECT OWNER.
- THE IRRIGATION CONTRACTOR SHALL BE DIRECTLY RESPONSIBLE FOR SLEEVING AND DIRECTIONAL BORES.
- ALL SLEEVES UTILIZED BY THE IRRIGATION CONTRACTOR WHETHER INSTALLED BY HIM OR NOT, SHALL BE LOCATED ON THE "AS-BUILT" DRAWINGS. THE DEPTH BELOW FINISH GRADE, TO THE NEAREST FOOT OF EACH END OF THE SLEEVE SHALL BE NOTED AT EACH SLEEVE LOCATION ON THE "AS-BUILT" DRAWINGS. ALL SLEEVES ON PLAN FOR WALL PENETRATIONS AND UNDER SIDEWALKS SHALL BE SIZED TWO PIPE SIZES GREATER THAN THE PIPE IT CARRIES.
- ALL PRESSURIZED MAINLINES AND LATERALS UNDER PAVEMENT SHALL BE WITHIN SLEEVES AS NOTED. WHERE ELECTRIC OR HYDRAULIC VALVE CONTROL LINES PASS THROUGH A SLEEVE WITH OTHER MAIN OR LATERAL LINES THEY SHALL BE CONTAINED WITHIN A SEPARATE, SMALLER CONDUIT.
- SLEEVES UNDER EXISTING PAVEMENT MUST BE DIRECTIONAL BORE. OPEN CUT IS NOT AN OPTION.
- NUMBER THE TOP OF ALL VALVE BOX LIDS WITH MINIMUM 1" HEIGHT BLACK LETTERS TO CORRESPOND TO AUTOMATIC AND GATE VALVE DESIGNATIONS. ALL HOSE BIBB VALVE BOXES SHALL BE LABELED IN A SIMILAR MANNER WITH THE DESIGNATION "HIB" LETTER OUTSIDE OF TIME CLOCK CABINETS TO CORRESPOND WITH IRRIGATION CLOCK PROGRAM DESIGNATION.
- THE IRRIGATION CONTRACTOR SHALL INSTALL A COLOR CODED METAL DETECTABLE MARKING TAPE WHICH CLEARLY NOTES: "CAUTION: IRRIGATION LINE BURIED BELOW." THE TAPE SHALL BE INSTALLED THE FULL LENGTH OF THE IRRIGATION MAINLINE.
- ALL VALVES, SPLICES WITHIN CONTROL LINES, AND QUICK COUPLERS SHALL BE LOCATED WITHIN NDS VALVE BOXES AS FOLLOWS: RECTANGULAR 12"x17" HEAVY DUTY BOX. (PURPLE COVER FOR REUSE TO BE PROVIDED WHERE APPROPRIATE).
- ALL UNSIZED PIPE SHALL BE 94" UNLESS OTHERWISE NOTED ON PLAN. SEE LATERAL PIPE SIZING REQUIREMENTS.
- EACH TREE AND PALM (AS SHOWN ON THE PLANS) SHALL HAVE TWO (2) FLOOD BUBBLERS. SUCH HEADS SHALL BE ON MINIMUM 5'-0" LENGTH OF FLEXIBLE PIPE TO ALLOW ITS POSITIONING AT THE TREE. LOCATE BUBBLER ON THE UPHILL SIDE OF TREES OR ON ALL SLOPES.
- ALL IRRIGATION HEADS DRIP TUBING SHALL BE LOCATED ONE (1) FOOT FROM BACK OF CURB WHEN NEXT TO A ROADWAY. (THIS SHALL NOT INCLUDE PARKING AREAS OR DRIVE AISLES).
- LOCATE ALL VALVES IN PLANTING BEDS WITH A MINIMUM OF 3'-0" FROM BACK OF CURB OR EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED. PIPE SIZES ON EITHER SIDE OF SECTION VALVES CONNECTING MAINLINE TO SECTION LATERAL SHALL BE ONE (1) PIPE SIZE LARGER THAN VALVE SIZE. WHERE MAINLINES RUN PARALLEL TO PAVEMENT OR CURBING, THE MAINLINE SHALL BE OFFSET 2'-0" FROM THE EDGE OF PAVEMENT OR CURB.
- IRRIGATION ZONES SHALL BE SEPARATED FOR HIGH AND LOW WATER USE REQUIREMENTS AND OPERATED ON DIFFERENT WATERING CYCLES. BUBBLERS, OR PLINE, AND SPRAY HEADS SHALL BE SEPARATED ON DIFFERENT VALVES. AT NO TIME SHALL MULTIPLE IRRIGATION HEAD TYPES BE LOCATED ON THE SAME VALVE.
- ALL DRIP ZONES SHALL BE INSTALLED WITH A FLUSH VALVE AND AIR RELIEF VALVE. IN THE EVENT THAT A DRIP ZONE HAS MORE THAN ONE HIGH OR LOW POINT, MORE THAN ONE AIR RELIEF VALVE OR FLUSH VALVE WILL BE REQUIRED FOR THAT ZONE. DRIPLINE SHALL PROVIDE 0.5 GPM EMITTERS, 12" O.C. WITH 18" LINE SPACING AT A MINIMUM.
- IRRIGATION CONTRACTOR TO COORDINATE WITH OWNER FOR FINAL CONTROLLER AND RAIN SENSOR LOCATIONS. THE CONTROLLER SHALL BE PLACED IN A LOCKING CABINET APPROPRIATE FOR ITS LOCATION. (INDOOR VS. OUTDOOR USE)
- LOCATE THE AUTOMATIC RAIN SENSOR SHUT-OFF DEVICE IN AN AREA THAT IS UNSHADOWED BY TREES, ROOF OVERHANGS, OR ANY OTHER OVERHEAD OBJECT. THE SENSOR SHALL NOT BE PLACED WITHIN THE SPRAY ZONE OF ANY SPRINKLER HEAD, INCLUDING OFF-SITE IRRIGATION. CONTRACTOR SHALL LOCATE SENSOR WITHIN CLOSE PROXIMITY TO THE IRRIGATION CONTROLLER.
- CONTRACTOR SHALL PERFORM HYDRO-TESTING OF MAIN LINES

HYDRO-TESTING TO BE PERFORMED AS LISTED:

THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE FORTY-EIGHT (48) HOURS IN ADVANCE OF TESTING. PRIOR TO BACKFILLING, CONTRACTOR SHALL FILL PIPING WITH WATER. IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE, TAKING CARE TO PURGE THE AIR FROM A SMALL HIGH PRESSURE PUMP OR OTHER MEANS OF MAINTAINING A CONTINUOUS WATER SUPPLY SHALL BE CONNECTED TO THE PIPING AND SET SO AS TO MAINTAIN 125 PSI FOR TWO (2) HOURS WITHOUT INTERRUPTION. CONTRACTOR SHALL MAKE ANY NECESSARY CORRECTIONS AND RE-TEST THE SYSTEM UNTIL THE OWNER'S REPRESENTATIVE IS SATISFIED THAT THE SYSTEM IS REASONABLY SOUND.

30. ALL WIRING FOR CONNECTION OF THE VALVES TO THE CONTROLLER SHALL FOLLOW MANUFACTURER'S SPECIFICATIONS. IF REQUIRED, ALL WIRING FOR A TWO WIRE PATH SHALL BE WITH REVERSE TWISTED PAIR (4 AWG). ELECTRIC CONTROL LINES FROM THE DECODER TO THE SOLENOID VALVES SHALL BE TWISTED PAIR (16 AWG). ALL DECODERS SHALL BE GROUNDED EVERY 1,000 FT. OR EVERY 2 DEVICES. ALL WIRE SHALL BE FURNISHED IN MINIMUM 2,500 REELS AND SPLICING SHALL BE MINIMIZED. BURY SPLICE KIT, ALL 24 VOLT WIRING SHALL BE DONE IN ACCORDANCE WITH EXISTING CODES. SPLICING SHALL BE IN VALVE BOXES OR CONTROLLERS ONLY. IRRIGATION SYSTEM CONTROL SHALL BE TWO WIRE PATH. CONTRACTOR SHALL FOLLOW ALL MANUFACTURER'S REQUIREMENTS FOR THIS INSTALLATION. TWO WIRE SYSTEM SHALL HAVE 2-WAY COMMUNICATIONS FIELD PROGRAMMABILITY, STATION SPECIFICATIONS AND INTEGRATED SURGE PROTECTION.

31. ALL CONTROL WIRE SHALL BE INSTALLED IN A 1 1/2" ELECTRICAL CONDUIT.

32. CONTRACTOR TO MINIMIZE IRRIGATION OVERTHROW TO IMPERVIOUS AND NATURAL AREAS THROUGH FIELD ADJUSTMENTS TO INDIVIDUAL HEADS.

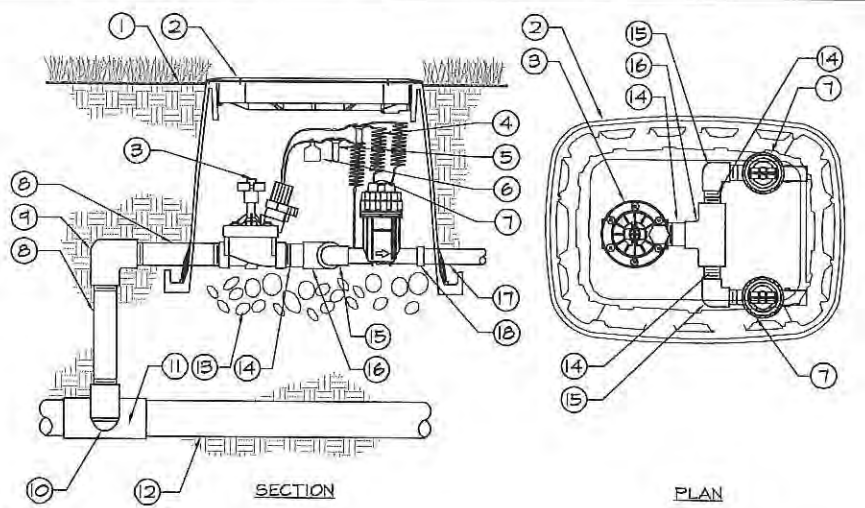
33. ALL UNIMPROVED AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION BY THE CONTRACTOR.

34. INSTALL ALL BACKFLOW PREVENTION DEVICES AND ALL PIPING BETWEEN THE POINT OF CONNECTION AND THE BACKFLOW PREVENTER AS PER LOCAL CODES. FINAL LOCATION SHALL BE DETERMINED BY THE OWNER'S AUTHORIZED REPRESENTATIVE.

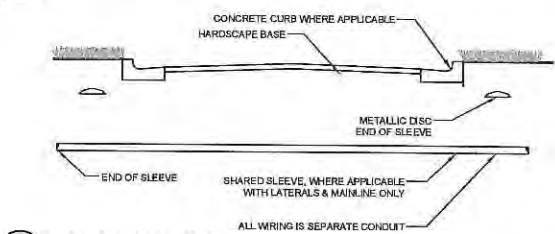
LATERAL PIPE SIZING REQUIREMENTS

FLOW RANGE	MINIMUM PIPE SIZE
1 TO 10 GPM	3/4"
11 TO 20 GPM	1"
21 TO 30 GPM	1-1/4"
31 TO 40 GPM	1-1/2"
41 TO 60 GPM	2"
61 TO 90 GPM	2-1/2"
91 TO 100 GPM	3"

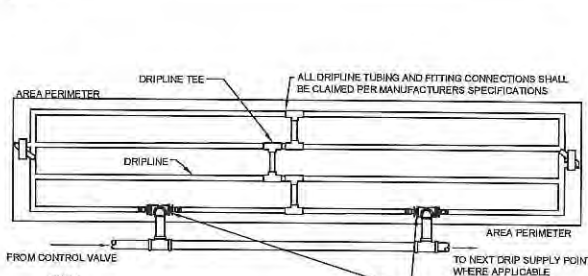
PIPE SIZES ILLUSTRATED IN THE ABOVE CHART ARE MINIMUM ACCEPTABLE SIZES. CONTRACTOR SHALL FIELD SIZE ALL LATERAL PIPING TO KEEP ALL FRICTION LOSS VELOCITIES BELOW 5.0 FPS.



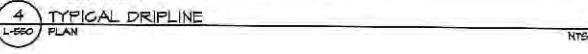
1 TYPICAL DRIFT ZONE VALVE KIT
L-550 SECTION / PLAN NTS



2 TYPICAL SLEEVING
L-550 SECTION NTS



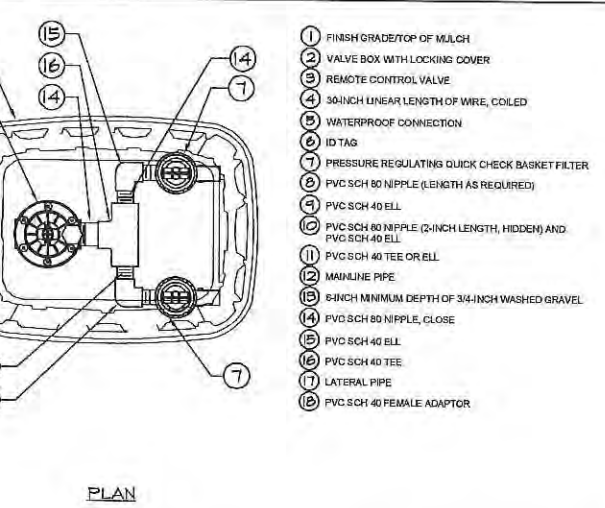
3 TYPICAL DRIPLINE
L-550 PLAN NTS



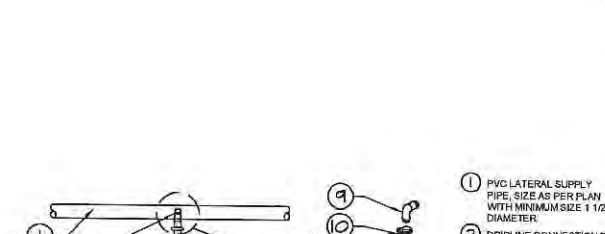
4 TYPICAL TREE DRIP RING
L-550 PLAN NTS



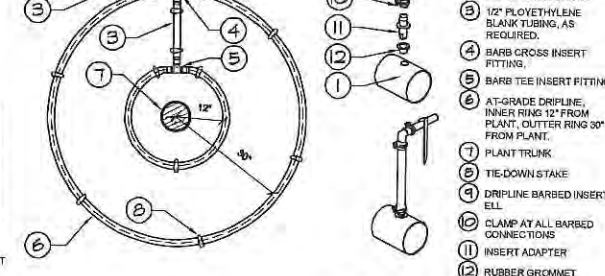
5 TYPICAL AIR RELIEF VALVE IN DRIPLINE
L-550 SECTION NTS



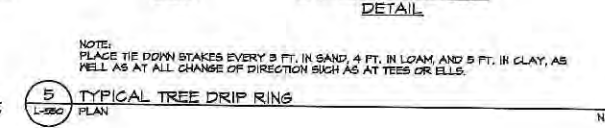
6 TYPICAL MICROSPRAY EMITTER THROUGH PLANTER
L-550 SECTION NTS



7 TYPICAL THRUST BLOCK
L-550 SECTION NTS



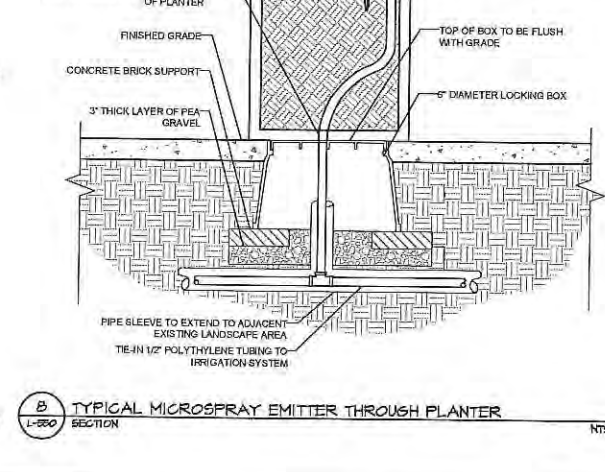
8 TYPICAL DRAIN VALVE
L-550 SECTION NTS



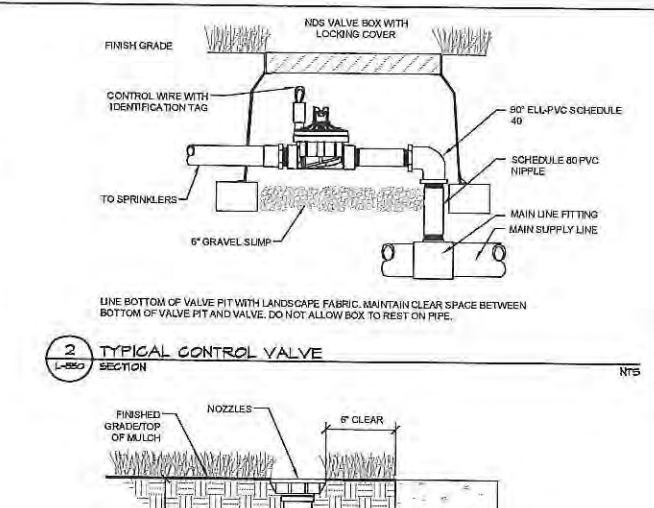
9 TYPICAL SPRAY / ROTAR HEAD
L-550 SECTION NTS



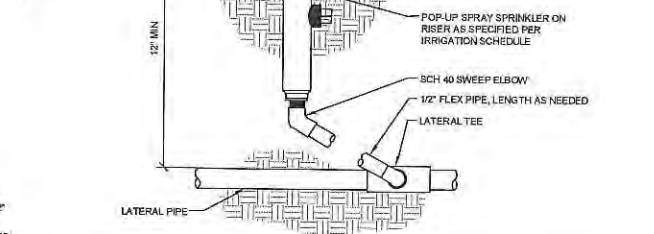
10 TYPICAL CONTROL VALVE
L-550 SECTION NTS



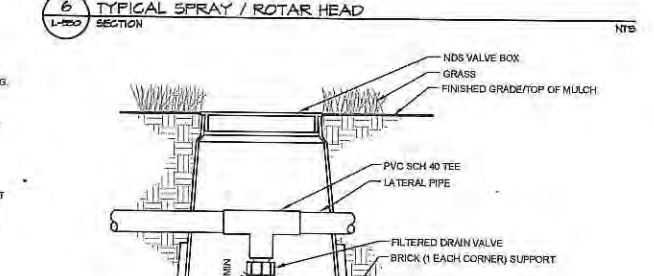
11 TYPICAL DRIPLINE TO LATERAL ADAPTER CONNECTION DETAIL
L-550 SECTION NTS



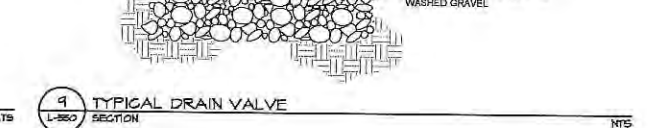
12 TYPICAL DRIFT ZONE VALVE KIT
L-550 SECTION NTS



13 TYPICAL SLEEVING
L-550 SECTION NTS



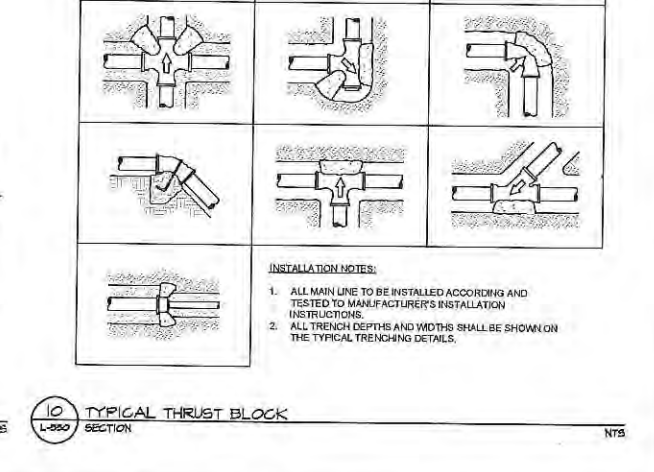
14 TYPICAL DRIPLINE
L-550 PLAN NTS



15 TYPICAL TREE DRIP RING
L-550 PLAN NTS



16 TYPICAL AIR RELIEF VALVE IN DRIPLINE
L-550 SECTION NTS



17 TYPICAL MICROSPRAY EMITTER THROUGH PLANTER
L-550 SECTION NTS



18 TYPICAL THRUST BLOCK
L-550 SECTION NTS

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IRRIGATION NOTES AND DETAILS

BAYWALK PLAZA
 PREPARED FOR
NORTH BAY VILLAGE
 NORTH BAY VILLAGE

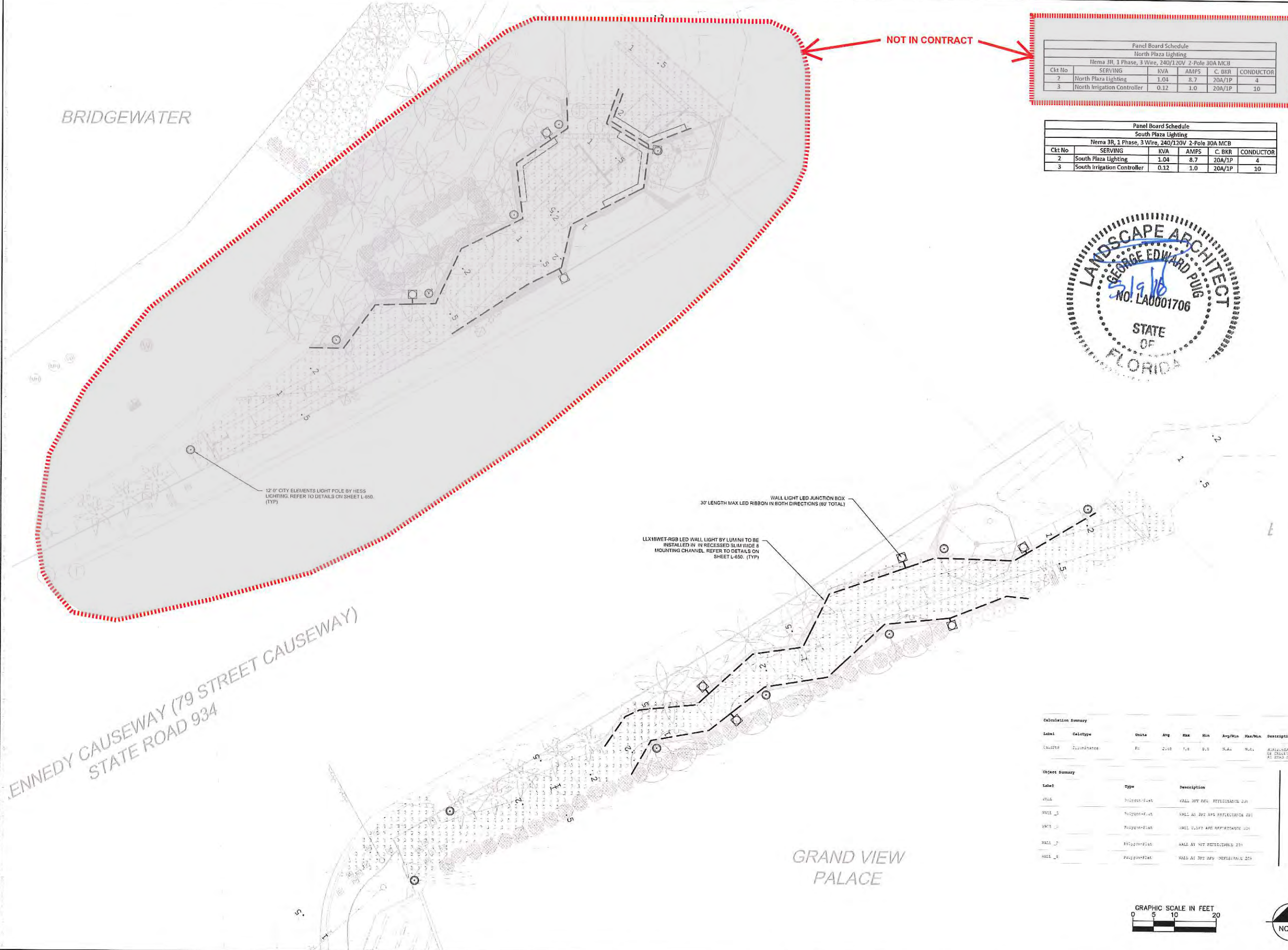
SHEET NUMBER L-550

DATE: 07/30/2015
 SCALE: AS SHOWN
 DESIGNED BY: KHA
 DRAWN BY: JEB
 CHECKED BY: JRP
 DATE: 5/9/2016

REVISIONS

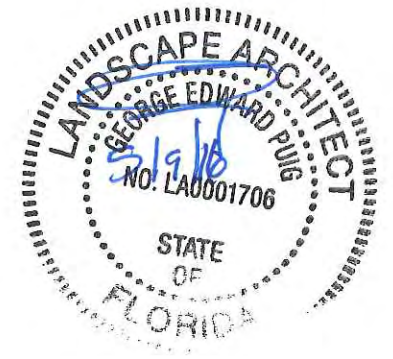
No.	REVISIONS	DATE	BY

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 07/30/2015 09:05:59am K:\245 - URGENT\245022 - Barway - Plaza\45\4500\Lighting\LA-600_L-600.dwg



Panel Board Schedule					
North Plaza Lighting					
Ckt No	SERVING	KVA	AMPS	C. BKR	CONDUCTOR
2	North Plaza Lighting	1.04	8.7	20A/1P	4
3	North Irrigation Controller	0.12	1.0	20A/1P	10

Panel Board Schedule					
South Plaza Lighting					
Ckt No	SERVING	KVA	AMPS	C. BKR	CONDUCTOR
2	South Plaza Lighting	1.04	8.7	20A/1P	4
3	South Irrigation Controller	0.12	1.0	20A/1P	10



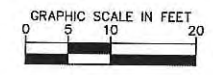
12'-0" CITY ELEMENTS LIGHT POLE BY HESS LIGHTING. REFER TO DETAILS ON SHEET L-650. (TYP)

LLX16WET-RGB LED WALL LIGHT BY LUMINI TO BE INSTALLED IN IN RECESSED SLIM WIDE 8 MOUNTING CHANNEL REFER TO DETAILS ON SHEET L-650. (TYP)

WALL LIGHT LED JUNCTION BOX
30' LENGTH MAX LED RIBBON IN BOTH DIRECTIONS (60' TOTAL)

Calculation Summary							
Label	Category	Units	Avg	Max	Min	Avg/Min	Max/Min
WALL_2	ILLUMINANCE	Ft	2.68	1.8	0.0	5.4	5.4

Object Summary		
Label	Type	Description
WALL_1	Polygon/Face	WALL AT 30' AWY REFLECTANCE 20%
WALL_2	Polygon/Face	WALL AT 30' AWY REFLECTANCE 20%
WALL_3	Polygon/Face	WALL AT 30' AWY REFLECTANCE 20%
WALL_4	Polygon/Face	WALL AT 30' AWY REFLECTANCE 20%
WALL_5	Polygon/Face	WALL AT 30' AWY REFLECTANCE 20%



No.	REVISIONS	DATE	BY

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LICENSED PROFESSIONAL
 GEORGE PUGH, P.A.
 FL LICENSE NUMBER
 LA0001706
 DATE 7/30/2015

KHA PROJECT
 043138022
 DATE
 07/30/2015
 SCALE AS SHOWN
 DESIGNED BY
 DRAWN BY
 CHECKED BY

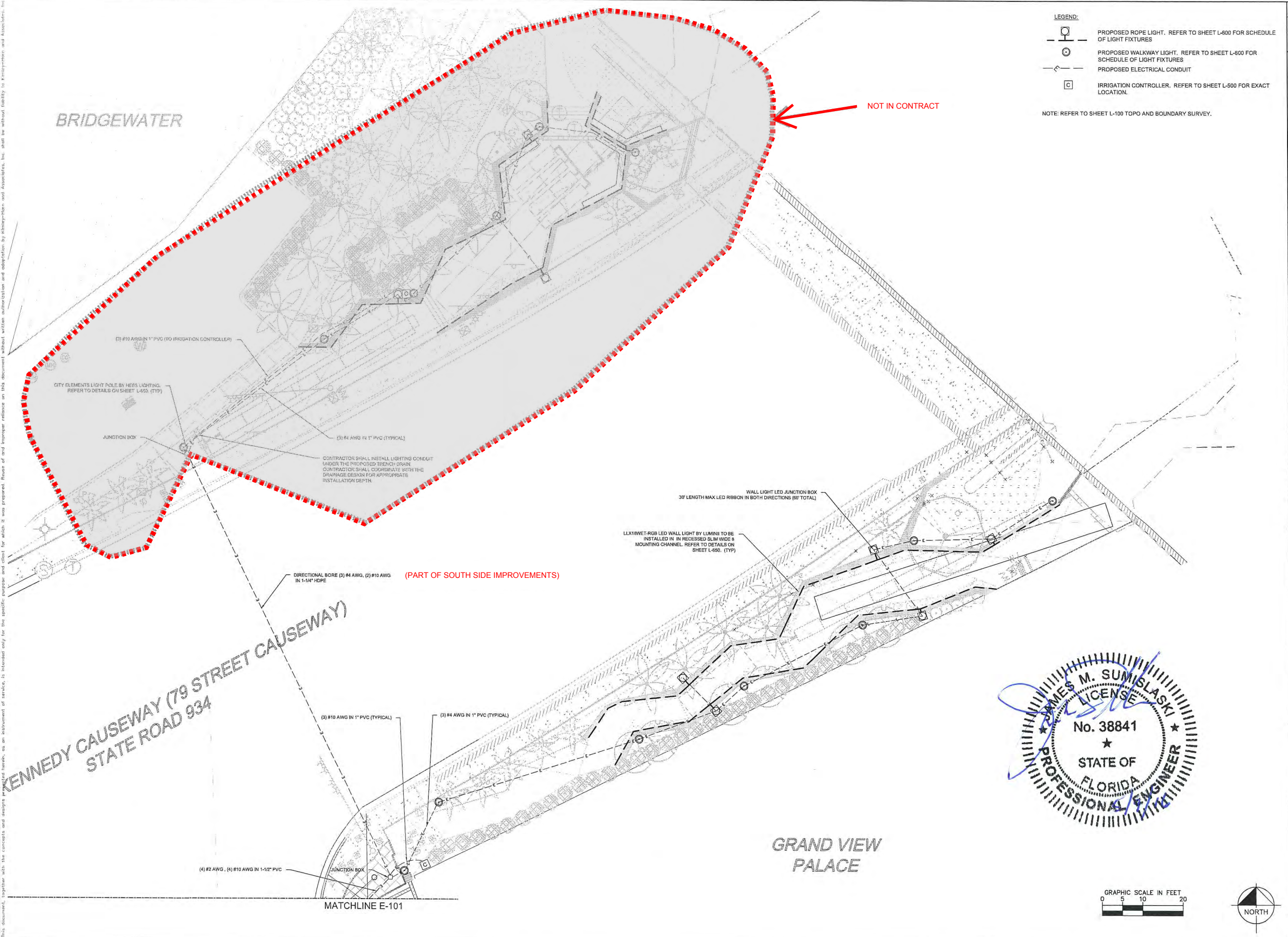
LIGHTING PLAN

BAYWALK PLAZA
 PREPARED FOR
NORTH BAY VILLAGE

NORTH BAY VILLAGE FL

SHEET NUMBER
L-600

Electrical Engineering - Sheet Set - Baywalk Plaza - Layout E-100 LIGHTING PLAN - July 30, 2015 - 08:53:24am - J:\VAB_SYSTEMS\Other_Regions\Sacramento\Baywalk Plaza\Baywalk Plaza ELECTRICAL PLANS.dwg
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- LEGEND:**
- PROPOSED ROPE LIGHT. REFER TO SHEET L-600 FOR SCHEDULE OF LIGHT FIXTURES
 - PROPOSED WALKWAY LIGHT. REFER TO SHEET L-600 FOR SCHEDULE OF LIGHT FIXTURES
 - PROPOSED ELECTRICAL CONDUIT
 - IRRIGATION CONTROLLER. REFER TO SHEET L-500 FOR EXACT LOCATION.

NOTE: REFER TO SHEET L-100 TOPO AND BOUNDARY SURVEY.

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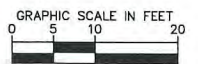
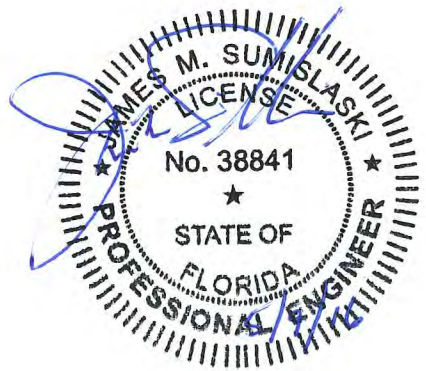
LICENSED PROFESSIONAL
 JAMES SUMISLASKI, P.E.
 PE LICENSE NUMBER 38841
 DATE: 7/30/2015

KHA PROJECT 043136022
 DATE 07/20/2015
 SCALE AS SHOWN
 DESIGNED BY
 DRAWN BY
 CHECKED BY

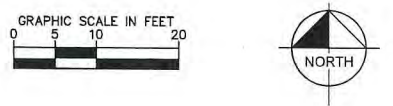
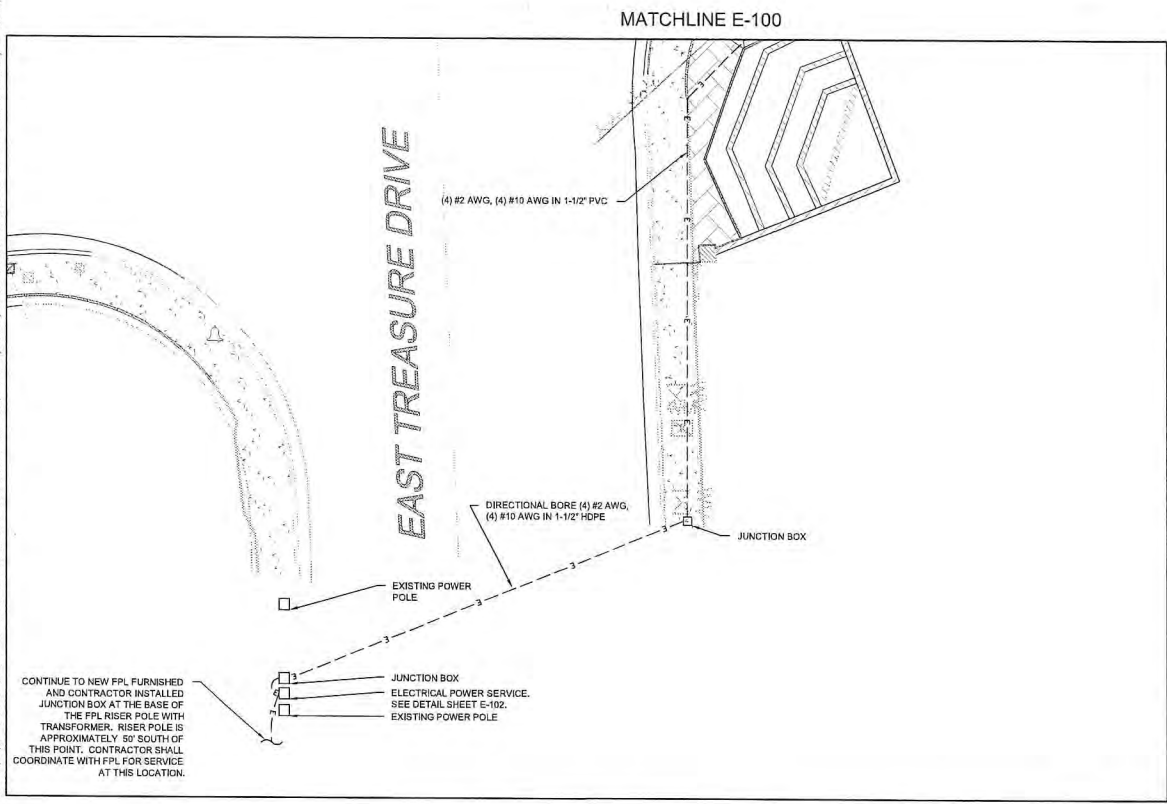
ELECTRICAL PLAN

BAYWALK PLAZA
 PREPARED FOR
NORTH BAY VILLAGE
 FL

SHEET NUMBER
E-100



Plotted By: Larsen, Brian Sheet: Sct_Boxwalk_Plaza_Layout_E-101 ELECTRICAL PLAN July 30, 2015 05:54:17am K:\VAB_SYSTEMS\Other_Regions\Sarasota\Bovwalk_Plaza\BAYWALK_PLAZA ELECTRICAL PLANS.dwg
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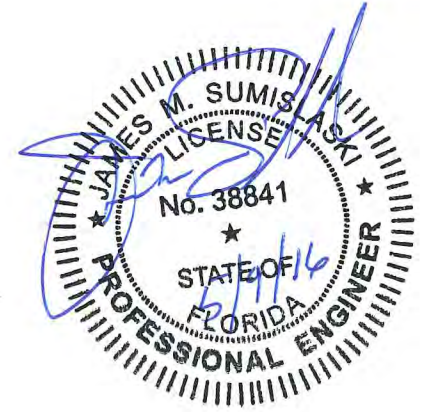


- LEGEND:**
- PROPOSED ROPE LIGHT. REFER TO SHEET L-600 FOR SCHEDULE OF LIGHT FIXTURES
 - PROPOSED WALKWAY LIGHT. REFER TO SHEET L-600 FOR SCHEDULE OF LIGHT FIXTURES
 - PROPOSED ELECTRICAL CONDUIT

NOTE: REFER TO SHEET L-100 TOPO AND BOUNDARY SURVEY.

LIGHTING NOTES:

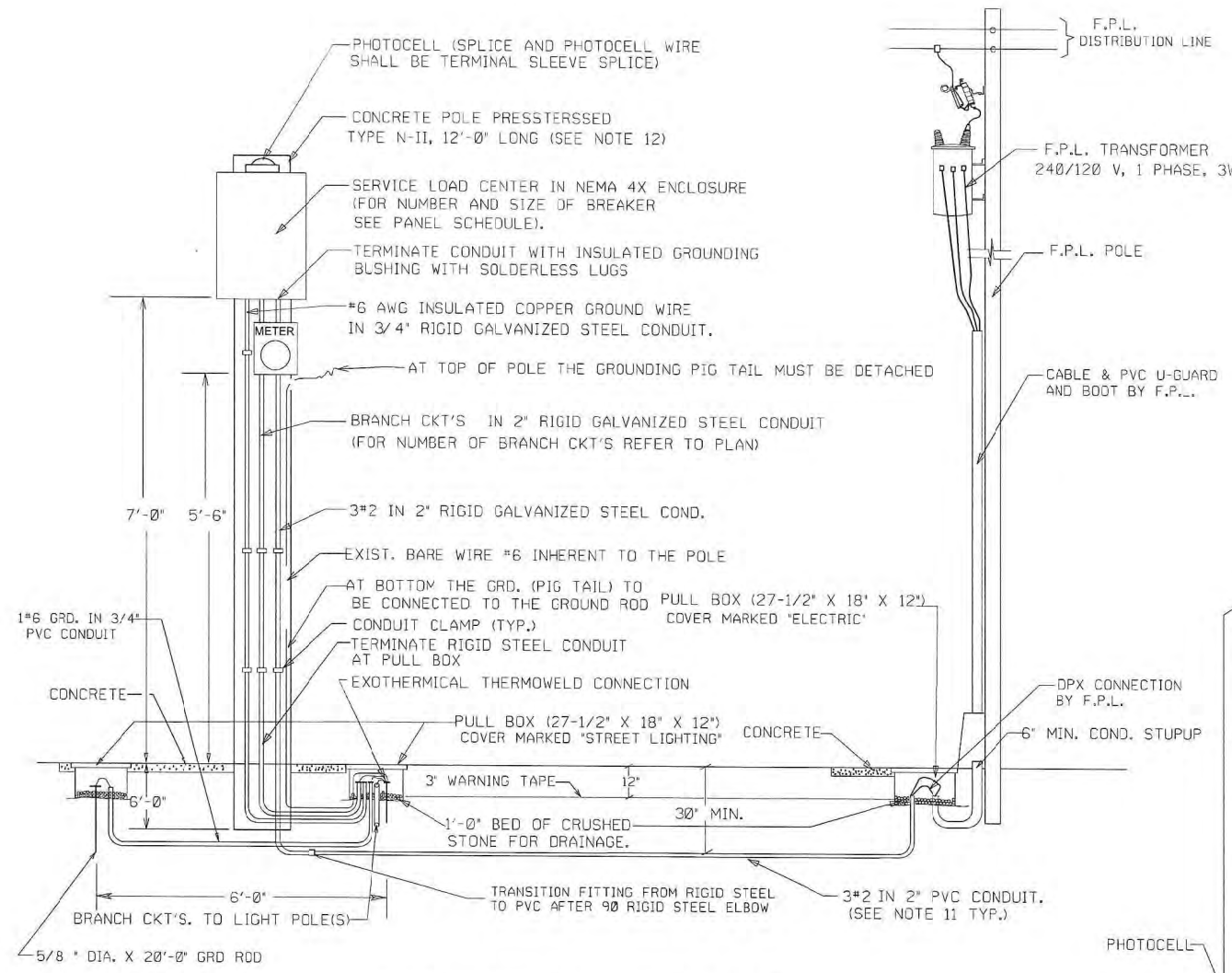
1. THE CONTRACTOR SHALL PERFORM AN INVENTORY OF THE EXISTING LIGHTING SYSTEM PRIOR TO THE BEGINNING OF CONSTRUCTION ACTIVITIES. A WRITTEN REPORT WILL BE PREPARED LISTING ALL LIGHTING ITEMS OPERABLE AND INOPERABLE. THE COMPLETED REPORT WILL BE FORWARDED TO THE PROJECT ENGINEER WITH COPIES TO THE MAINTAINING AGENCY PRIOR TO THE BEGINNING OF CONSTRUCTION.
2. ENDS OF CONDUITS SHALL BE SEALED WITH POLYURETHANE FOAM AFTER WIRING IS COMPLETE. FOAM SEAL SHALL NOT BE USED AS A MEANS TO PROTECT CONDUCTORS FROM ABRASION IN RACEWAYS. GALVANIZED RIGID METAL CONDUIT SHALL HAVE PROPER FITTINGS TO PROTECT CONDUCTORS FROM ABRASION.
3. ATTACH LIGHTNING ARRESTOR TO THE WALL OF THE PULL BOX BY MEANS OF A SELF-TAPPING SCREW OR BY A MASONRY SCREW. CARE SHOULD BE EXERCISED WHEN UTILIZING THIS METHOD NOT TO BREAK THE SUPPORTING TABS; SCREWS SHOULD BE FIRM BUT NOT SNUG AGAINST THE SUPPORTING TABS.
4. PROVIDE TWO 5/8" X 20' COPPER CLAD STEEL GROUNDING ELECTRODES AT EACH SERVICE POINT. THEY MUST BE SPACED A MINIMUM OF SIX FEET AND SIX INCHES FROM EACH OTHER WHEN INSTALLED AS AN ARRAY. WHEN THE GROUNDING ELECTRODE CONDUCTOR IS ENCLOSED IN A METAL RACEWAY, BOTH ENDS OF THE RACEWAYS AND ALL INTERVENING RACEWAYS AND METALLIC ENCLOSURES CONTAINING THE GROUNDING ELECTRODE CONDUCTOR MUST BE BONDED TO THE GROUNDING ELECTRODE CONDUCTOR.
5. ALL AERIAL GROUNDING CONNECTIONS SHALL BE EXOTHERMICALLY WELDED AS PER F.D.O.T. SPECIFICATIONS SECTION 715-11 WHERE THE POLE CABLE DISTRIBUTION SYSTEM IS EMPLOYED (MG SQUARE, DOT 3), GROUNDING CONNECTIONS TO THE DISTRIBUTION BLOCK AND LIGHTNING ARRESTOR OR OTHER DEVICES CONTAINING LEADS SMALLER THAN # 8 AWG, SHALL BE DONE BY MECHANICAL CONNECTIONS OR OTHER APPROVED MEANS.
6. THE CONTRACTOR SHALL CHECK THE CONTINUITY OF GROUNDING CONDUCTOR USING MEGGER OR EQUAL LOW RESISTANCE / HIGH CAPACITY OHMMETER CALIBRATED WITHIN THE PAST 180 DAYS. A NEUTRAL / GROUND LOOP RESISTANCE OF MORE THAN 0.5 OHMS-PER THOUSAND FEET SHALL BE CONSIDERED INADEQUATE.
7. ONLY LINE CONDUCTORS WILL BE PERMITTED IN SERVICE PULL BOX. NO GROUND RODS OR ANY OTHER ITEMS OR DEVICES SHALL BE ALLOWED.
8. LIGHT POLE FOUNDATIONS SHALL BE INSTALLED AT A GRADE THAT IS FLUSH WITH THE ADJACENT AND SURROUNDING SIDEWALK.
9. THE COST TO RESTORE THE EXISTING SIDEWALK TO THE NEAREST FLAG JOINT SHALL BE INCLUDED IN BID ITEMS ASSOCIATED WITH THE POLE INSTALLATION.
10. POLE CABLE DISTRIBUTION SYSTEM USED SHALL BE MG SQUARE DOT 3 AS DESCRIBED IN STANDARD SPECIFICATIONS SUBARTICLE 992-12.2.
11. SPLICES FOR #4 AWG AND #6 AWG CONDUCTORS SHALL UTILIZE THE MOLDED SPLICE KIT TYCO-RAYCHEM CATALOG # GELCAP-SL-20-3 HOLE.
12. NO UNNECESSARY SPLICING WILL BE PERMITTED IN PULL BOXES
13. WHERE CONVENTIONAL WIRING SYSTEMS ARE EMPLOYED OR THE EXISTING POLES ARE UTILIZED, CONDUCTORS SHALL BE SO ROUTED AND COORDINATED AS TO TERMINATE ON THE LINE SIDE OF THE FUSE-HOLDERS (HEB'S & HEBR'S).
14. PAYMENT FOR CONDUCTOR SHALL BE BASED ON THE LINEAR FEET OF SINGLE CONDUCTOR IN HORIZONTAL MEASUREMENT. NO ALLOWANCES SHALL BE MADE FOR CONNECTION IN PULL BOXES, CABINETS OR POLES.
15. THE CONTRACTOR IS RESPONSIBLE TO PAY THE POWER COMPANY THE COST OF PROVIDING ELECTRICITY TO THE TEMPORARY AND PROPOSED LIGHTING FROM THE MOMENT THE EXISTING SERVICE IS DISCONNECTED UNTIL FINAL ACCEPTANCE OF THE NEW LIGHTING BY THE MAINTAINING AGENCY. COST TO BE INCLUDED IN PAY ITEM 102-1 MAINTENANCE OF TRAFFIC
16. ABOVE GROUND UTILITY LOCATIONS SHOWN IN THE PLANS ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY THIS INFORMATION BY PRE-TRENCHING THE LOCATION OF PROPOSED LIGHT POLES PRIOR TO SUBMITTING SHOP DRAWINGS, COST OF PRE-TRENCHING TO BE INCLUDED IN THE COST OF THE LIGHT POLES.
17. CONTRACTOR SHALL ADJUST LOCATION OF PROPOSED LIGHT POLES AND CONDUIT ACCORDINGLY TO AVOID UTILITY FIELD CONFLICTS, FINAL LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
18. THE LOCATION OF UTILITIES WITHIN THE JOHN F. KENNEDY CAUSEWAY RIGHT OF WAY WERE UNKNOWN AT THE TIME OF DESIGN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION WITH UTILITIES.



KHA PROJECT 043138022		LICENSED PROFESSIONAL JAMES SUMISLASKI, P.E.	
DATE 07/20/2015	SCALE AS SHOWN	PE LICENSE NUMBER 38841	DATE 7/30/2015
DESIGNED BY	DRAWN BY	CHECKED BY	
ELECTRICAL PLAN		BAYWALK PLAZA PREPARED FOR NORTH BAY VILLAGE	
SHEET NUMBER E-101		NORTH BAY VILLAGE FL	
		REVISIONS	
No.		DATE	BY

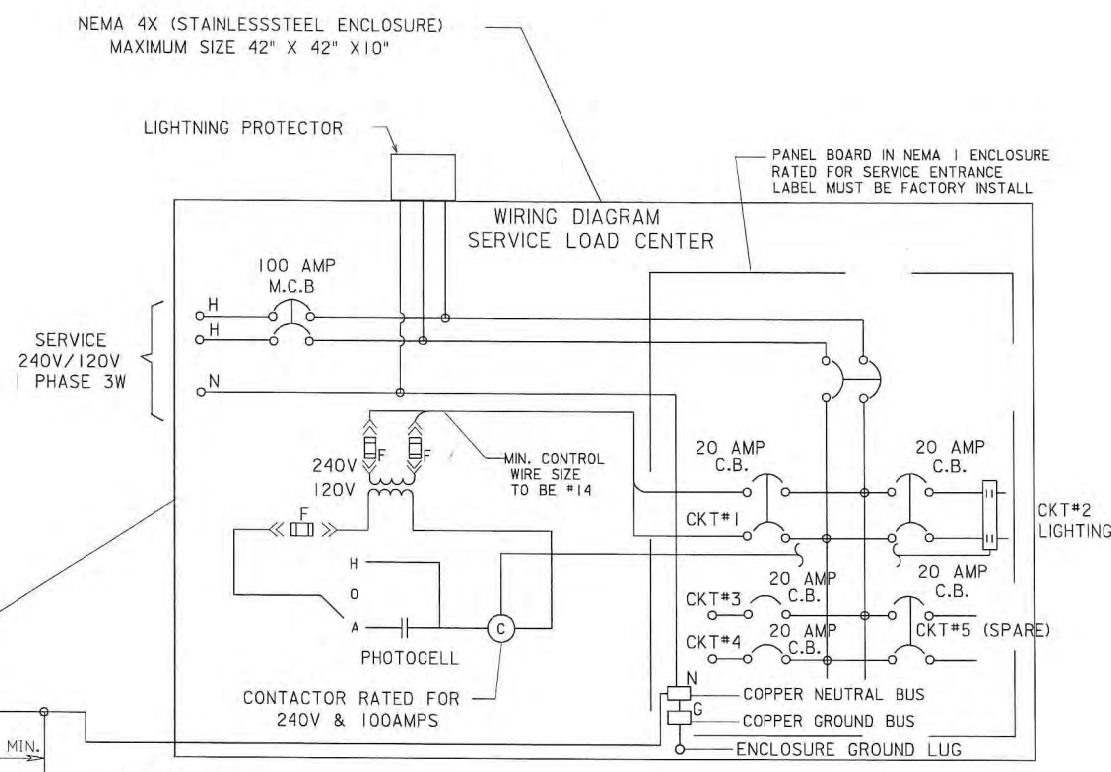
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 1777 WWA W
 PHONE: 841-379-7600
 WWW.KIMLEY-HORN.COM CA 00006986

Project: Baywalk Plaza - Sheet: S11 Baywalk Plaza - Layout: E-102 ELECTRICAL PLAN - July 30, 2015, 08:54:33pm - K:\VAB_SYSTEMS\Other_Regions\Broward\Baywalk Plaza\BAYWALK PLAZA ELECTRICAL PLANS.dwg
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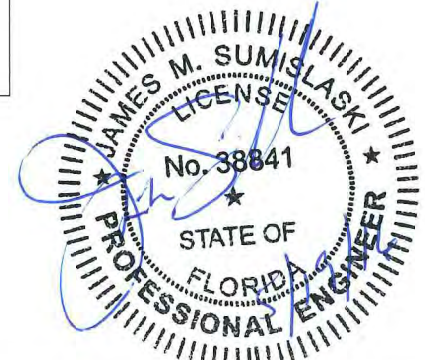
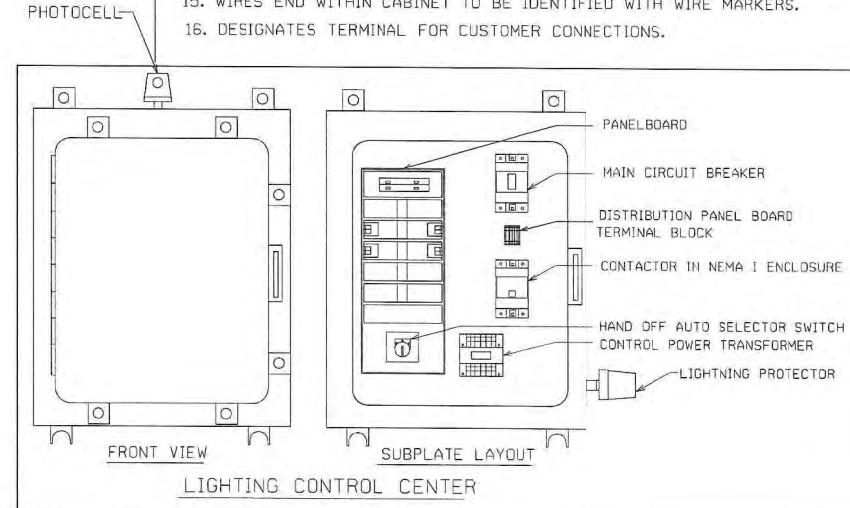
NOTES: **SERVICE POINT DETAIL**
N.T.S

1. THE ENCLOSURE SHALL BE NEMA-4X (STAINLESS STEEL), POLE MOUNTED, RIGIDLY ATTACHED TO THE POLE FACE.
2. THE ENCLOSURE DOOR SHALL BE SECURED BY LOCKABLE LATCH. THE DOOR SHALL HAVE A MINIMUM OF THREE HINGES AND BE LATCHABLE. NO SCREWS TO BE USED TO ATTACH DOOR.
3. 240V MINIMUM RATING BOLT IN TYPE BREAKERS SHALL BE USED.
4. A 600V LIGHTNING PROTECTOR SHALL BE WIRED OUTSIDE THE ENCLOSURE.
5. A MAIN BREAKER IS REQUIRED IN ALL SERVICE PANELS WITH 2 OR MORE FEEDER BREAKERS.
6. ALL SERVICE EQUIPMENT SHALL BE U.L. APPROVED.
7. BUS BAR TO BE COPPER COATED AND HAVE A MINIMUM RATING OF 100 AMPS WHEN MAIN BREAKER EXCEEDS 100 AMPS. BUSBAR TO MATCH BREAKER AMPERAGE.
8. LOCATE CONTACTOR, TRANSFORMER, AND H.O.A. SWITCH INSIDE ENCLOSURE. THE ENCLOSURE TO BE SIZED TO ACCOMMODATE AS MANY BREAKERS AS CALLED FOR AND ALL OTHER SERVICE EQUIPMENT.
9. THE ENCLOSURE TO BE RIGIDLY ATTACHED TO THE POLE FACE.



NOTES:

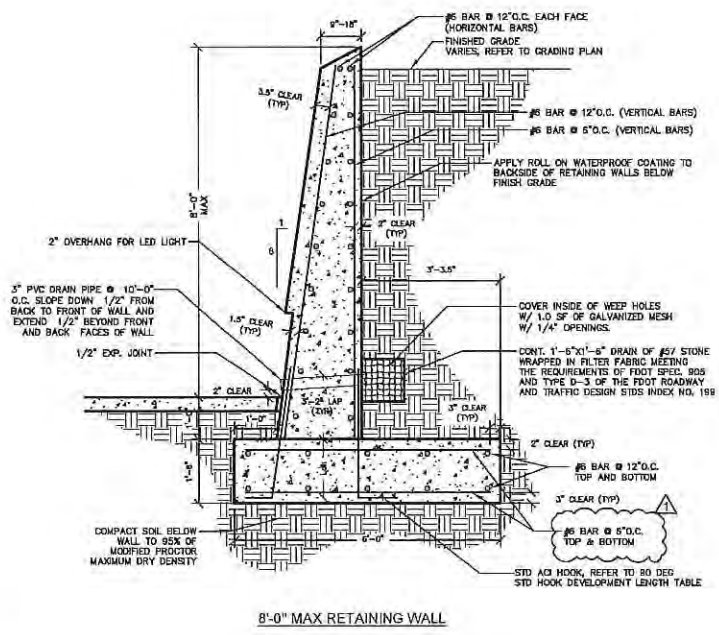
10. ALL GROUND ROD SHALL BE INTERCONNECTED (USING #6 GROUND WIRE).
11. ALL CONDUCTOR SHALL BE TYPE THWN-2. (OTHER TYPE OF CONDUCTOR IS NOT ALLOWED, EXCEPT GROUND WIRE WHICH SHALL BE TYPE THWN.)
12. CONTRACTOR SHALL SUBMIT STRUCTURAL CALCULATIONS OF THE POLE, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER.
13. AFTER OPENING THE PANEL, THE PANEL BOARD SHALL HAVE A DEAD FRONT COVER FOR THE PURPOSE OF COVERING ALL THE WIRING AND EXPOSING ONLY THE BUTTONS OF THE BREAKERS; IN COMPLIANCE WITH THE N.E.C.
14. ALL WIRES EXTERNAL TO CONTROL CABINET TO BE TERMINATED TO A TERMINAL.
15. WIRES END WITHIN CABINET TO BE IDENTIFIED WITH WIRE MARKERS.
16. DESIGNATES TERMINAL FOR CUSTOMER CONNECTIONS.



KHA PROJECT 04-3136022		DATE 07/20/2015		SCALE AS SHOWN		DESIGNED BY DRAWN BY		CHECKED BY	
LICENSED PROFESSIONAL JAMES SUMISLASKI, P.E.		RE LICENSE NUMBER 38841		DATE 7/30/2015		REVISED		BY	
KIMLEY-HORN AND ASSOCIATES, INC. 1777 MAIN STREET, SUITE 200 GAINESVILLE, FL 32609 PHONE: 941-379-7600 WWW.KIMLEY-HORN.COM CA 00000696		<p style="text-align: center;">Kimley-Horn</p>							
ELECTRICAL DETAILS									
BAYWALK PLAZA PREPARED FOR NORTH BAY VILLAGE		FL		SHEET NUMBER E-102					

Plotted By: Leticia Michelle - Smart Set/Baywalk Plaza - Loyd/Louis - 100 STRUCTURAL DETAILS - May 05, 2016 04:11:23pm - K:\ME\URS\043138022 - Baywalk Plaza - Structural Details - 043138022.dwg
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1 ANGLLED CONCRETE RETAINING WALL

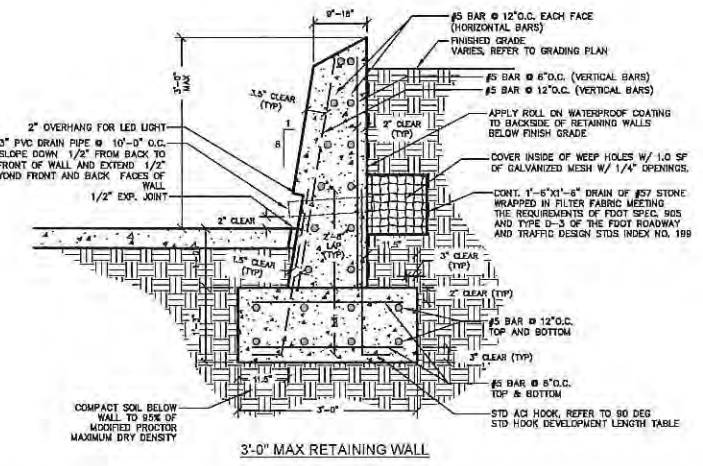
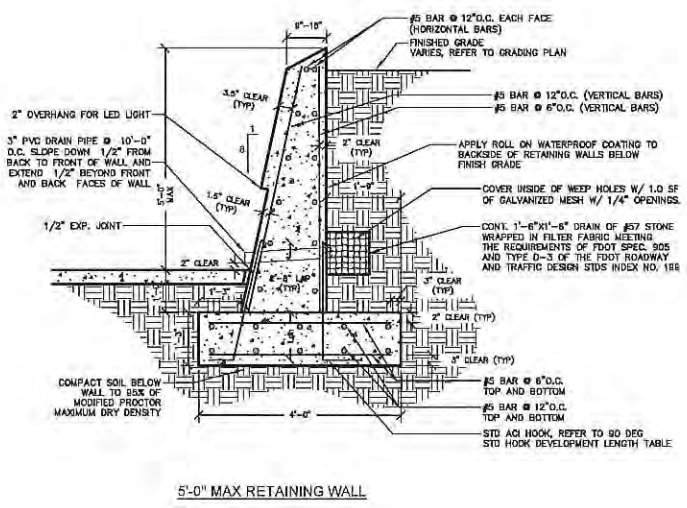


- GENERAL CONCRETE NOTES
1. ALL CONCRETE MATERIALS PLACING AND HANDLING SHALL BE IN ACCORDANCE W/ THE LATEST EDITION OF THE FDOT STANDARDS SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
 2. CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSION STRENGTH OF 4000 P.S.I.
 3. REINFORCING STEEL SHALL BE ASTM A615 W/ SUPPLEMENT, GRADE 60
 4. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO POURING.
 5. ALL FORMWORK TO BE REVIEWED AND APPROVED BY LANDSCAPE ARCHITECT PRIOR TO POURING WALLS.

- STD HOOK NOTES
1. VALUES ASSUME NO EPOXY-COATING IS USED AND NORMAL WEIGHT AGGREGATE CONCRETE.
 2. NO REDUCTION FACTORS IN ACI 318, SECTION 12.5.3 ARE APPLIED TO THESE VALUES.
 3. THE HOOK DEVELOPMENT LENGTH SHALL NOT BE LESS THAN 6#BAR DIA.
 4. 90° STD HOOK SHALL BE BEND PLUS 12#BAR DIA EXTENSION AT FREE END.

90 DEG STD HOOK DEVELOPMENT LENGTH (L_{dh})

BAR SIZE (N)	f _c = 4 KS	f _c = 5 KS
#3	7	7
#4	10	8
#5	12	11
#6	15	13
#7	17	15
#8	19	17
#9	22	19
#10	24	22
#11	27	24



No.	REVISIONS	DATE	BY
1	Permit Revisions	11.23.2015	BJ

Kimley»Horn
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LICENSED PROFESSIONAL
 MARK N. SANTOS, PE
 FL LICENSE NUMBER
 PE #70351
 CHECKED BY: JRP DATE: 5/9/2016

STRUCTURAL
 DETAILS

BAYWALK PLAZA
 PREPARED FOR
 NORTH BAY VILLAGE

SHEET NUMBER
 9-100

NORTH BAY VILLAGE FL

1/2" = 1'-0"
 043-138-022-02