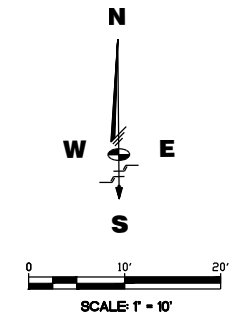
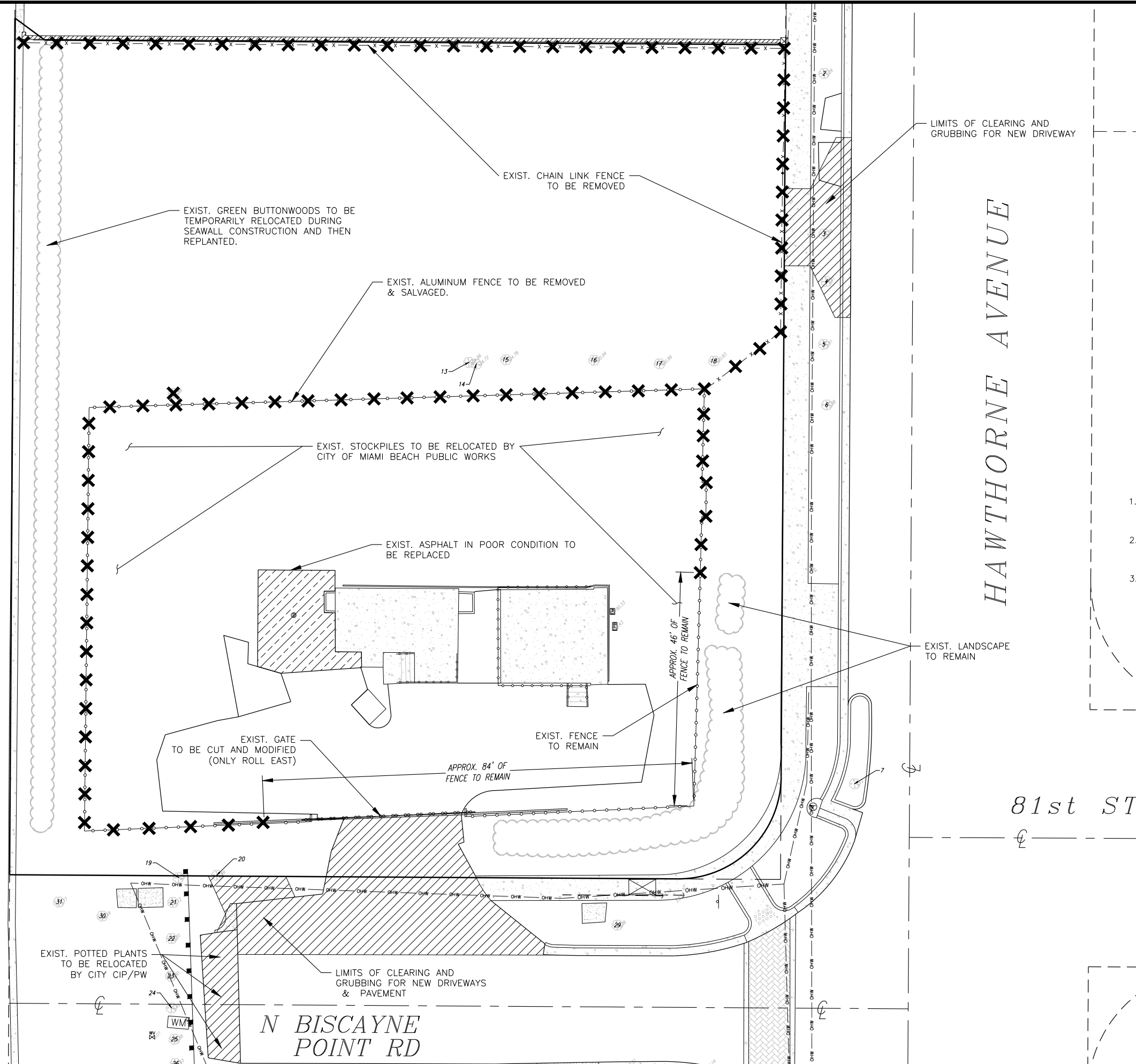


CANAL



LEGEND

✕ TO BE REMOVED

[Hatched Box] LIMITS OF BAD ASPHALT TO BE REPLACED

[Hatched Box] LIMITS OF RIGHT OF WAY TO BE CLEARED FOR PROPOSED DRIVEWAYS

GENERAL NOTES

1. EXISTING ALUMINUM FENCE TO BE REMOVED AND SALVAGED, WHERE POSSIBLE, TO USE AS PART OF NEW PROPOSED ALUMINUM FENCE.
2. EXISTING ROLLING GATE FOR SANITARY LIFT STATION TO BE MODIFIED TO ONLY ROLL TOWARDS THE EAST TO OPEN.
3. SEE TREE DISPOSITION PLAN BY LANDSCAPE ARCHITECT FOR TREES TO BE REMOVED/RELOCATED.

MIAMI BEACH
CAPITAL IMPROVEMENT PROJECTS
CITY MANAGER: JIMMY L. MORALES
PW DIRECTOR: ROY COLEY, P.E.
CIP DIRECTOR: DAVID MARTINEZ, P.E.
CITY ENGINEER: LUIS SOTO, P.E.

**Schwebke
Shiskin &
Associates, Inc.**
LAND SURVEYORS
CIVIL ENGINEERS
LAND PLANNERS
LB#87 CA#87
3240 CORPORATE WAY
MIRAMAR, FL 33025
TEL: (305)652-7010
FAX: (305)652-8284

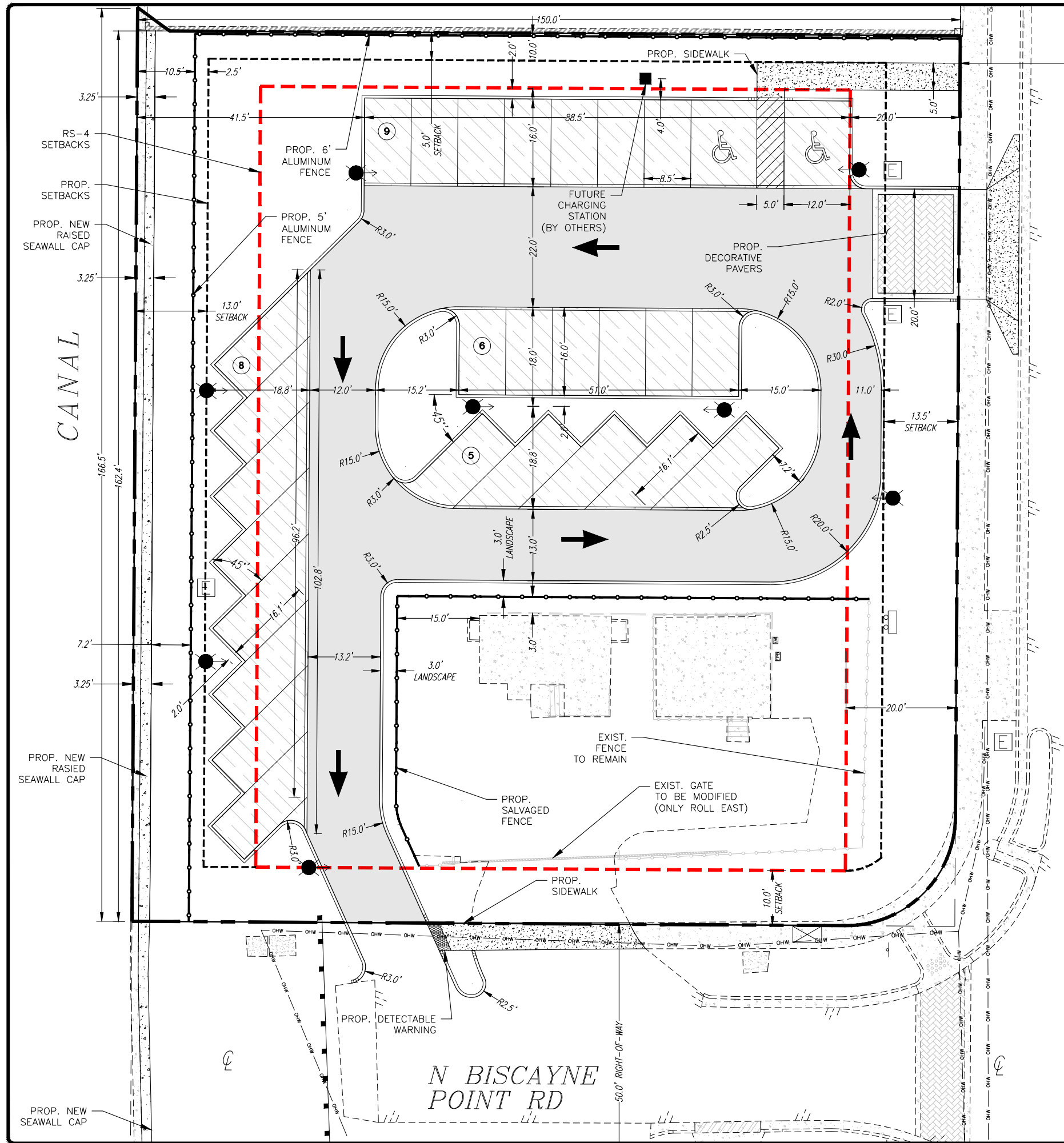
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NEIGHBORHOOD:
BISCAYNE BEACH

TITLE:
DEMOLITION PLAN

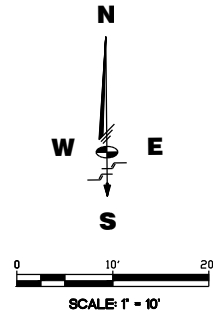
DRB FINAL

ENG. OF RECORD: **Luis F. Leon, P.E.**
TITLE: **Assistant Vice President**
ENGINEER No.: **58670**
DRAWN BY: **DCT**
CHECKED BY: **LEL**
SCALE: **As Noted**
FIELD BOOK: **---**
PAGE: **---**
PURCHASE ORDER: **20181531-00**
FILE NAME: **Demo.dwg**
ISSUE DATE: **08/03/18**
Dwg. No.: **C-6**
OF: **31**



LEGEND

- PROPOSED CONCRETE
- PROPOSED ASPHALT
- PROPOSED PERVIOUS CONC.
- PROPOSED FUTURE ELECTRIC VEHICLE CHARGING STATION
- PROPOSED LIGHT POLES
- PROPOSED ALUMINUM PICKET FENCE
- PARKING ROW COUNT
- DIRECTION OF TRAFFIC FLOW
- REQUIRED SETBACK
- PROPOSED SETBACK
- PROPOSED ELECTRIC BOXES/PANELS



SINGLE FAMILY RESIDENTIAL - ZONING DATA SHEET

1	Address:	8100 Hawthorne Avenue
2	Folio number(s):	02-3203-001-3450
3	Board and file numbers:	DRB18-0283
4	Year built:	N/A
5	Based Flood Elevation:	Zone AE 8
6	Adjusted grade (Flood+Grade/2):	6.28' (4.72' NAVD)
7	Lot Area:	24,285 SF (0.56 Ac.)
8	Lot width:	162.4'
9	Max Lot Coverage SF and %:	N/A
10	Existing Lot Coverage SF and %:	N/A
11	Front Yard Open Space SF and %:	2,165 SF (68.4%)
12	Max Unit Size SF and %:	N/A
13	Existing First Floor Unit Size:	N/A
14	Existing Second Floor Unit Size:	N/A
15		
16		
17	Height:	N/A
18	Setbacks:	N/A
19	Front First level:	20.0'
20	Front Second level:	N/A
21	Side 1:	10.0'
22	Side 2 or (facing street):	10.0'
23	Rear:	22.5'
24	Accessory Structure Side 1:	N/A
25	Accessory Structure Side 2 or (facing street):	N/A
26	Accessory Structure Rear:	N/A
27	Sum of Side yard:	N/A
28	Located within a Local Historic District?	No
29	Designated as an individual Historic Single Family Residence	No
30	Determined to be Architecturally Significant?	No

Notes:
If not applicable write N/A
All other data information should be presented like the above format

MIAMI BEACH
CAPITAL IMPROVEMENT PROJECTS
CITY MANAGER: JIMMY L. MORALES
PW DIRECTOR: ROY COLEY, P.E.
CIP DIRECTOR: DAVID MARTINEZ, P.E.
CITY ENGINEER: LUIS SOTO, P.E.

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NEIGHBORHOOD: BISCAYNE BEACH

TITLE: SITE PLAN

DRB FINAL

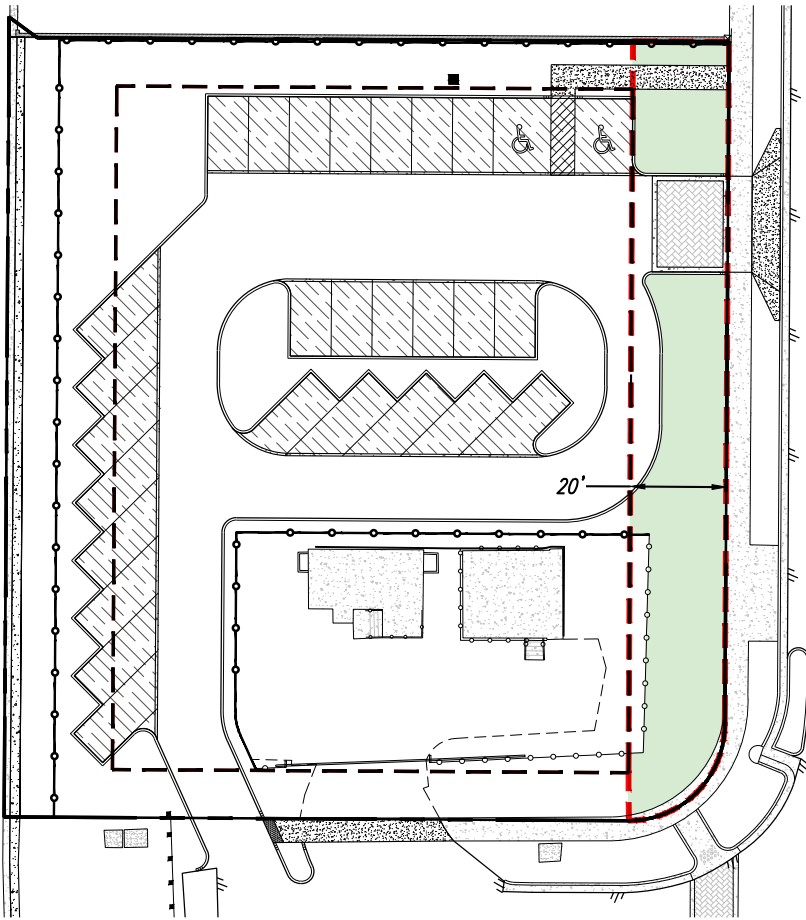
ENG. OF RECORD: **Luis F. Leon, PE**
TITLE: **Assistant Vice President**
ENGINEER NO.: **58670**
DRAWN BY: **DCI**
CHECKED BY: **LFL**
SCALE: **As Noted**

FIELD BOOK: ---
PAGE: ---
PURCHASE ORDER: **20181531-00**
FILE NAME: **SP.dwg**

ISSUE DATE: **08/03/18**

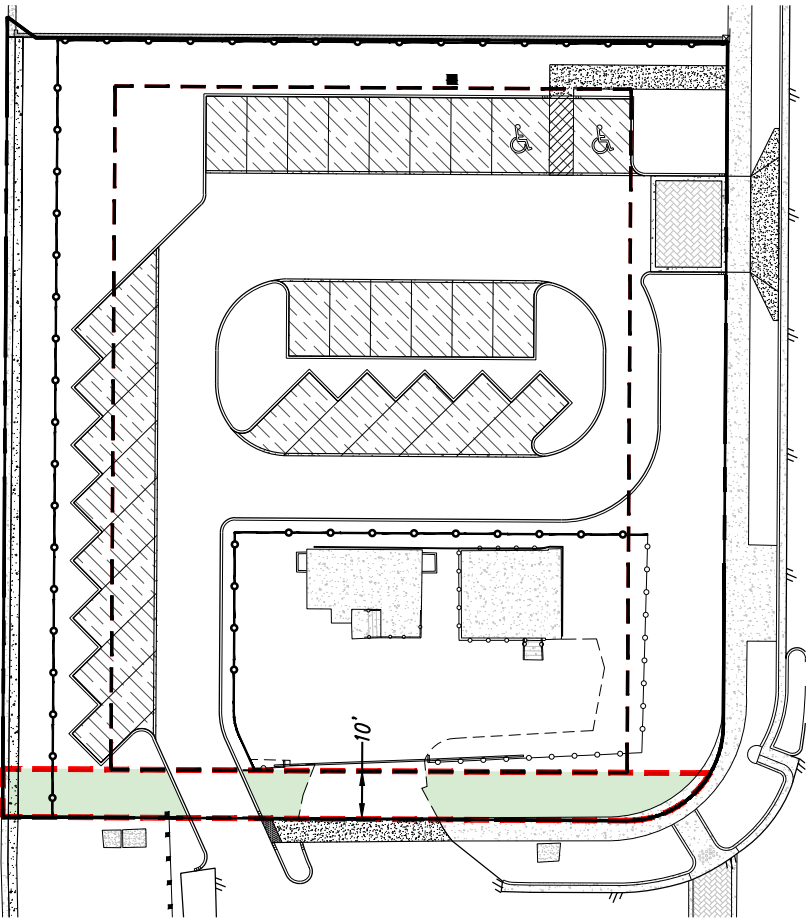
Dwg. No: **C-7**

OF: 31



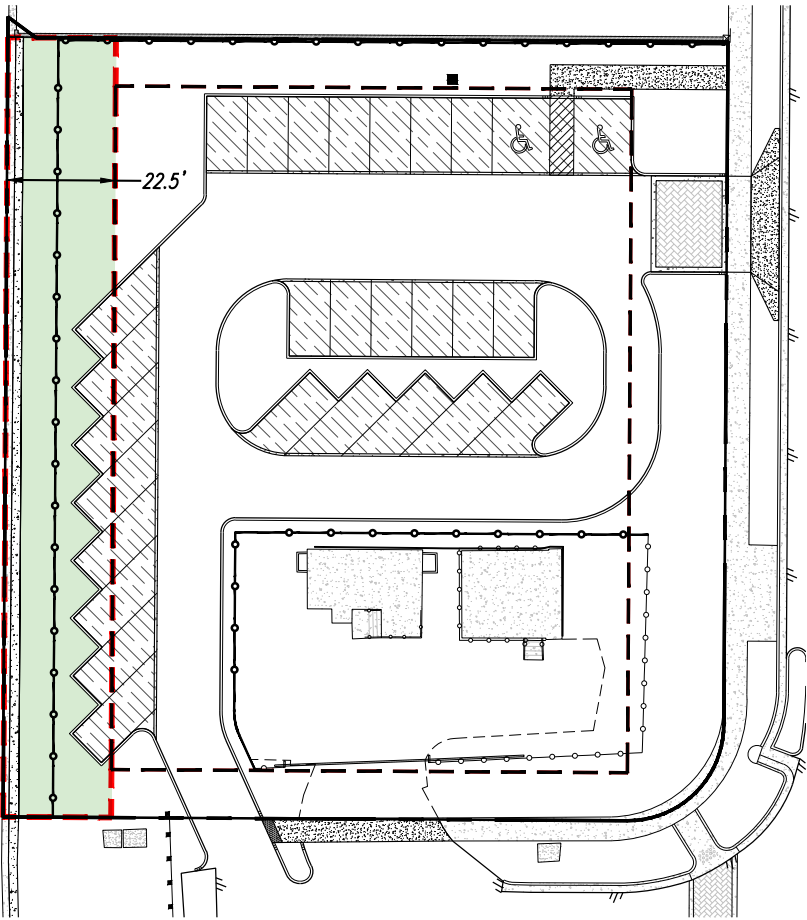
FRONT OPEN SPACE

TOTAL YARD AREA:	3,164 SF
SETBACK REQUIRED:	20'
REQUIREMENT:	1,582 SF (50% MINIMUM)
AREA PROVIDED:	2,165 SF (68.4%)



SIDE (STREET) OPEN SPACE

TOTAL YARD AREA:	1,424 SF
SETBACK REQUIRED:	10'
REQUIREMENT:	712 SF (50% MINIMUM)
AREA PROVIDED:	935 SF (65.7%)



REAR OPEN SPACE

TOTAL YARD AREA:	3,654 SF
SETBACK REQUIRED:	22.5'
REQUIREMENT:	2,558 SF (70% MINIMUM)
AREA PROVIDED:	2,568 SF (70.3%)

LEGEND

OPEN SPACE PERVIOUS AREA

REQUIRED SETBACK LINE

N

W

E

S

0

20'

40'

SCALE: 1" = 20'

MIAMI BEACH

CAPITAL IMPROVEMENT PROJECTS

1 PRECONVENTION CENTER DRIVE, MIAMI BEACH, FL 33139

CITY MANAGER: JIMMY L. MORALES

PW DIRECTOR: ROY COLEY, P.E.

CIP DIRECTOR: DAVID MARTINEZ, P.E.

CITY ENGINEER: LUIS SOTO, P.E.

Schweelke

Shiskin &

Associates, Inc.

LAND SURVEYORS

CIVIL ENGINEERS

LAND PLANNERS

LB#87 CA#87

3240 CORPORATE WAY

MIRAMAR, FL 33025

TEL: (305)652-7010

FAX: (305)652-8284

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NEIGHBORHOOD:

BISCAYNE BEACH

TITLE:

YARD OPEN SPACE
DIAGRAM AND CALCULATIONS

DRB FINAL

ENG. OF RECORD: Luis F. Leon, PE

TITLE: Assistant Vice President

ENGINEER No.: 58570

DRAWN BY: DCT

CHECKED BY: LFL

SCALE: As Noted

FIELD BOOK: ---

PAGE: ---

PURCHASE ORDER: 20181531-00

FILE NAME: Open Area Diagram.dwg

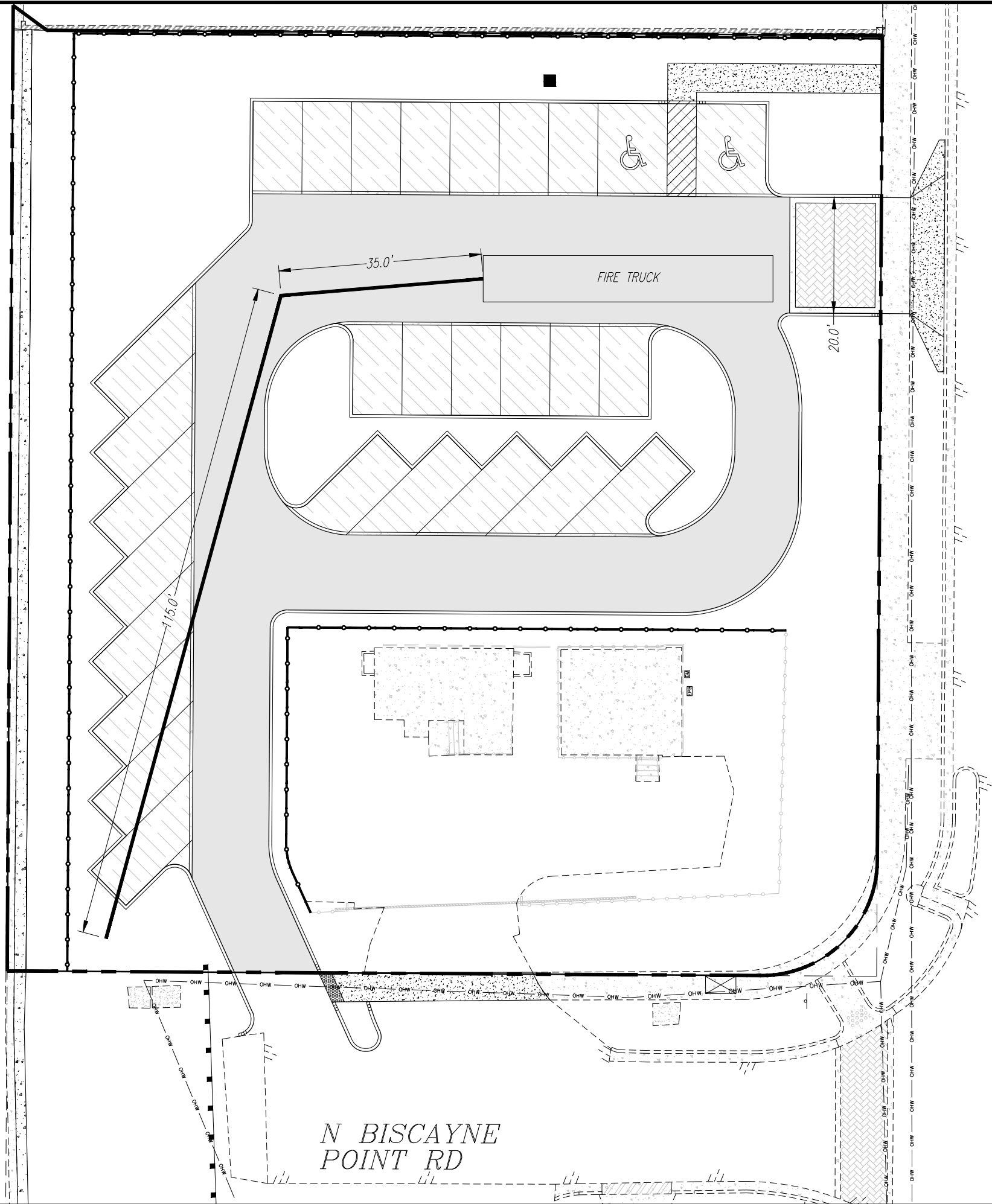
ISSUE DATE: 08/03/18

Dwg. No:

C-8

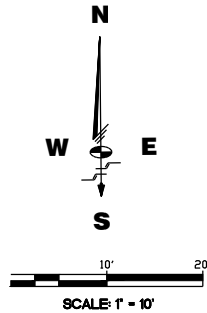
OF: 31

CANAL



HAWTHORNE
AVENUE

81st ST.



GENERAL NOTES

1. FIRE TRUCK ACCESS SHALL ONLY BE VIA NORTHEAST ENTRANCE.
2. NO TURN AROUND MOVEMENTS NOR CIRCULATION ROUTES HAVE BEEN PROVIDED.
3. A 150' HOSE LENGTH HAS BEEN SHOWN TO DEMONSTRATE REACH TO THE FURTHEST PARKING SPOT.

MIAMI BEACH
CAPITAL IMPROVEMENT PROJECTS
CITY MANAGER: JIMMY L. MORALES
PW DIRECTOR: ROY COLEY, P.E.
CIP DIRECTOR: DAVID MARTINEZ, P.E.
CITY ENGINEER: LUIS SOTO, P.E.

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NEIGHBORHOOD: BISCAYNE BEACH	FIRE SITE PLAN
TITLE:	

DRB FINAL

ENG. OF RECORD: Luis F. Leon, PE
TITLE: Assistant Vice President
ENGINEER No.: 58670
DRAWN BY: DCI
CHECKED BY: LEL
SCALE: As Noted

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PAGE: ---
PURCHASE ORDER: 20181531-00
FILE NAME:
SP.dwg

ISSUE DATE: 08/03/18

Dwg. No:

C-9

OF: 31

ALL ELEVATIONS IN NAVD

MIAMI BEACH
CAPITAL IMPROVEMENT PROJECTS

CITY MANAGER: JIMMY L. MORALES
PW DIRECTOR: ROY COLEY, P.E.
CIP DIRECTOR: DAVID MARTINEZ, P.E.
CITY ENGINEER: LUIS SOTO, P.E.

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CIVIL ENGINEERS
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NEIGHBORHOOD: **BISCAYNE BEACH**
TITLE: **CIVIL UTILITIES PLAN**

DRB FINAL

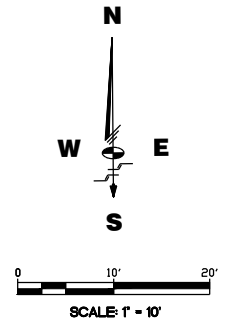
ENG. OF RECORD: Luis F. Leon, PE
TITLE: Assistant Vice President
ENGINEER NO.: 58670
DRAWN BY: DCI
CHECKED BY: LEI
SCALE: As Noted

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FILE NAME: PD.dwg
ISSUE DATE: 08/03/18

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OF: 31



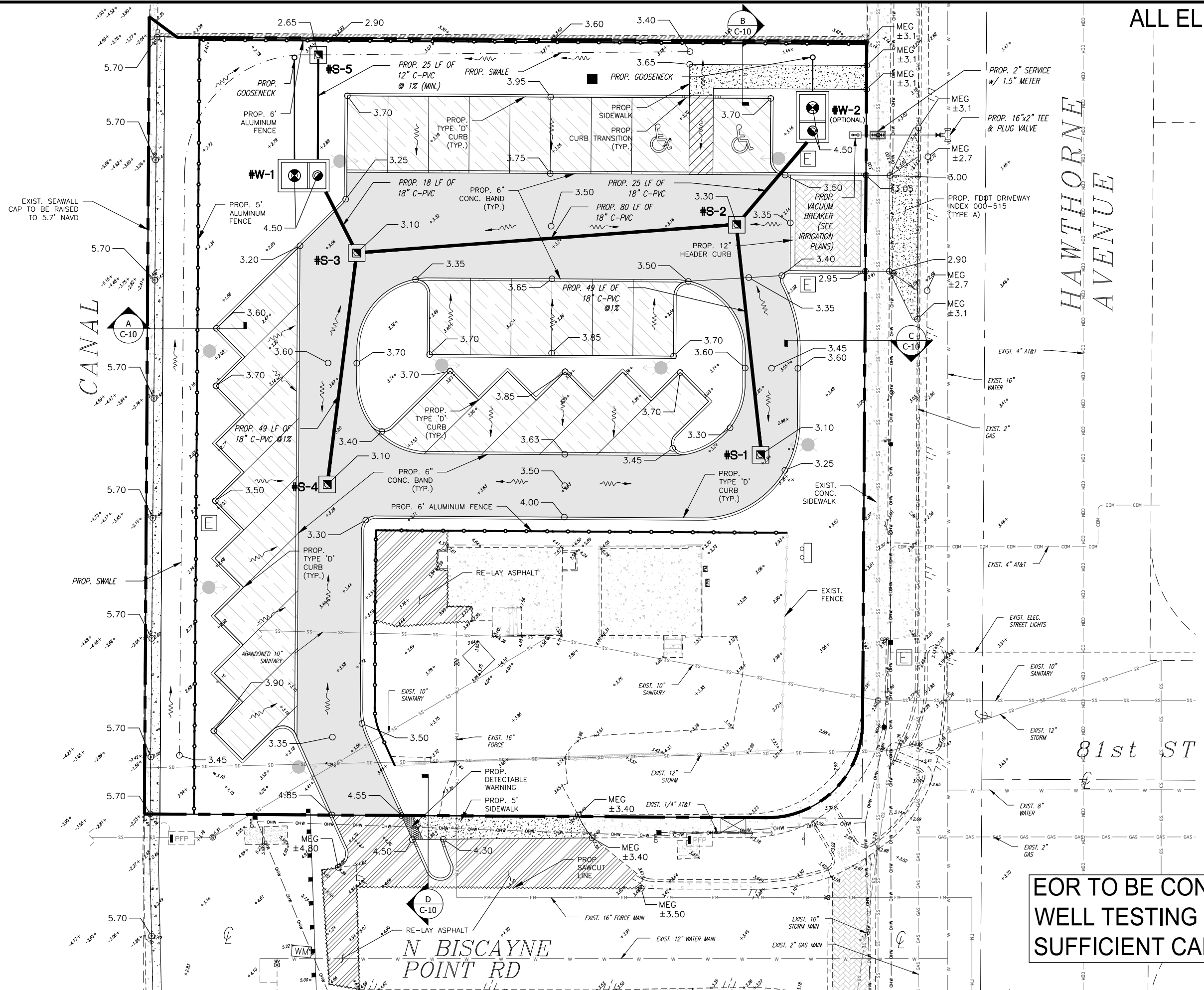
LEGEND

- PROPOSED CONCRETE
- PROPOSED ASPHALT
- PROPOSED PERVIOUS CONCRETE
- PROPOSED PAVER BRICKS
- MILL 1" OF EXIST. ASPHALT & OVERLAY WITH NEW SP-9.5
- PROPOSED ASPHALT GRADE
- EXISTING ELEVATION
- PROPOSED DRAINAGE STRUCTURE
- #S-2 DRAINAGE STRUCTURE NUMBER
- #W-2 DRAINAGE WELL NUMBER
- PROPOSED DRAINAGE WELL
- RIGHT OF WAY
- CENTER LINE

GENERAL NOTES

1. WELL #1 TO BE DRILLED AND TESTED FIRST (MIN. 565 GPM). WELL #2 WILL BE CONSTRUCTED ONLY IF NEEDED.

EOR TO BE CONTACTED DURING WELL TESTING TO ADVISE ON SUFFICIENT CAPACITY



ALL ELEVATIONS IN NAVD

MIAMI BEACH
CAPITAL IMPROVEMENT PROJECTS
1100 CONVENT CENTER DRIVE, MIAMI BEACH, FL 33139

CITY MANAGER: JIMMY L. MORALES
PW DIRECTOR: ROY COLEY, P.E.
CIP DIRECTOR: DAVID MARTINEZ, P.E.
CITY ENGINEER: LUIS SOTO, P.E.

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NEIGHBORHOOD: **BISCAYNE BEACH**
TITLE: **PAVING, GRADING, AND DRAINAGE SECTIONS**

DRB FINAL

ENG. OF RECORD: **Luis F. Leon, P.E.**
TITLE: **Assistant Vice President**
ENGINEER No.: **58670**
DRAWN BY: **DCI**
CHECKED BY: **LFL**
SCALE: **As Noted**

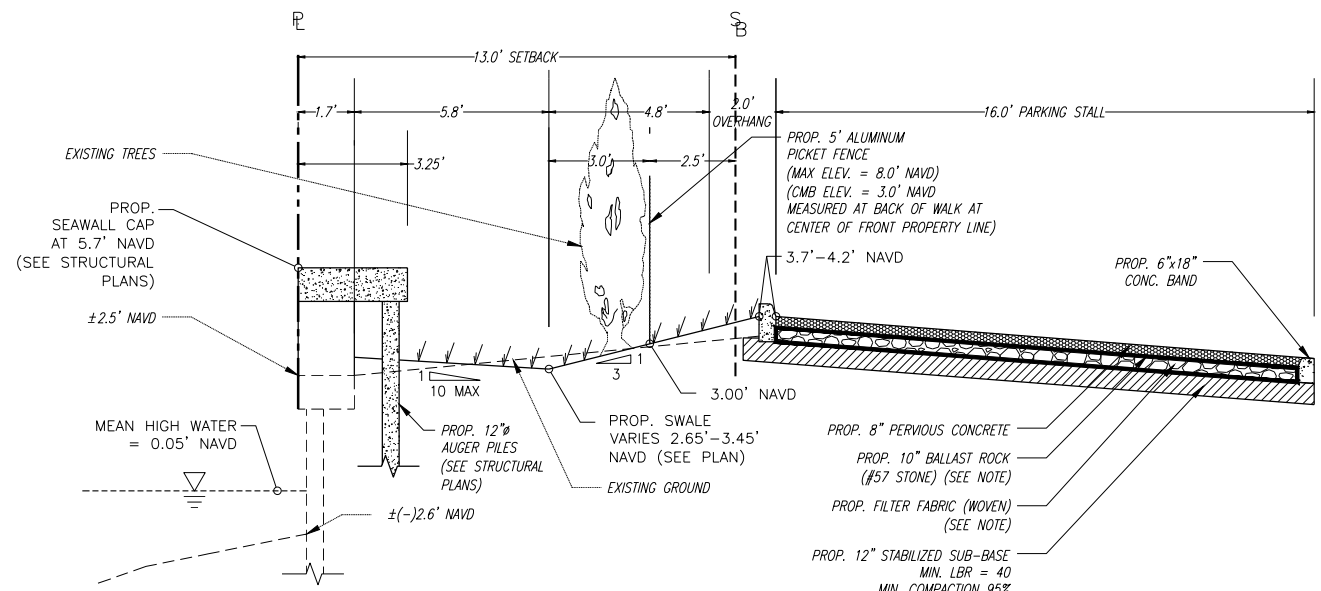
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PURCHASE ORDER: **20181531-00**
FILE NAME: **Sections.dwg**

ISSUE DATE: **08/03/18**

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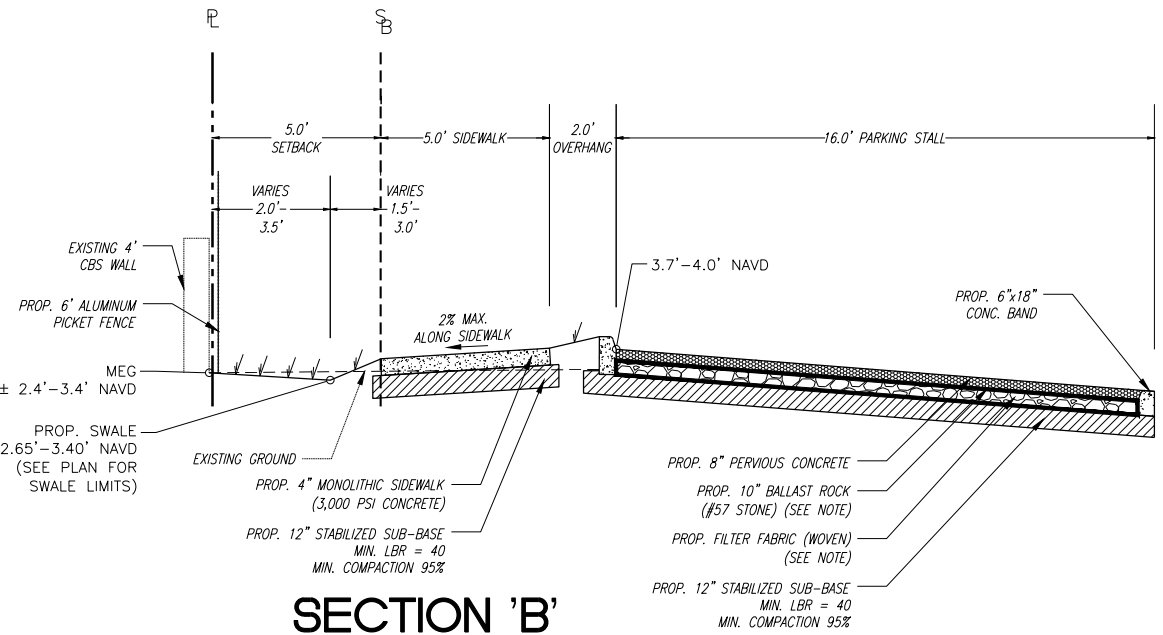
C-11

OF: 31



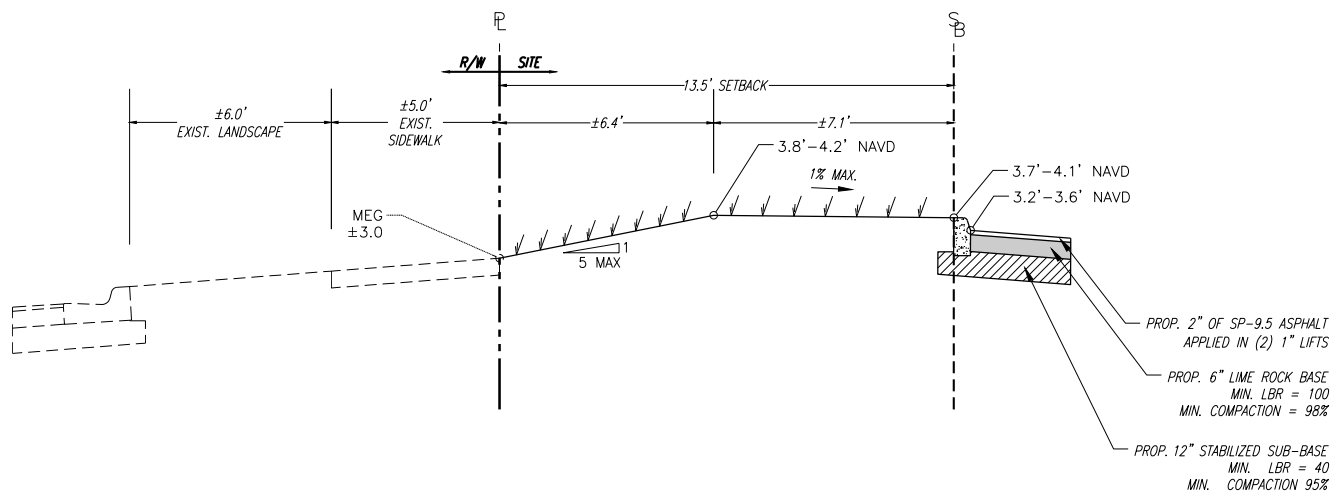
SECTION 'A'
N.T.S.

- SECTION NOTES:
- AFTER BALLAST ROCK HAS BEEN PLACED, IT SHALL BE CAREFULLY COMPACTED IN ORDER TO ALLOW FOR INITIAL SETTLEMENT. ADDITIONAL BALLAST ROCK SHALL BE ADDED, AS NEEDED, TO RESTORE THE BALLAST ROCK TO THE PROPER ELEVATION. REPEAT UNTIL SETTLEMENT NO LONGER OCCURS.
 - FILTER FABRIC SHALL BE PLACED ALONG THE FULL LENGTH OF THE BOTTOM, SIDES, AND ENDS OF THE INFILTRATION TRENCH.

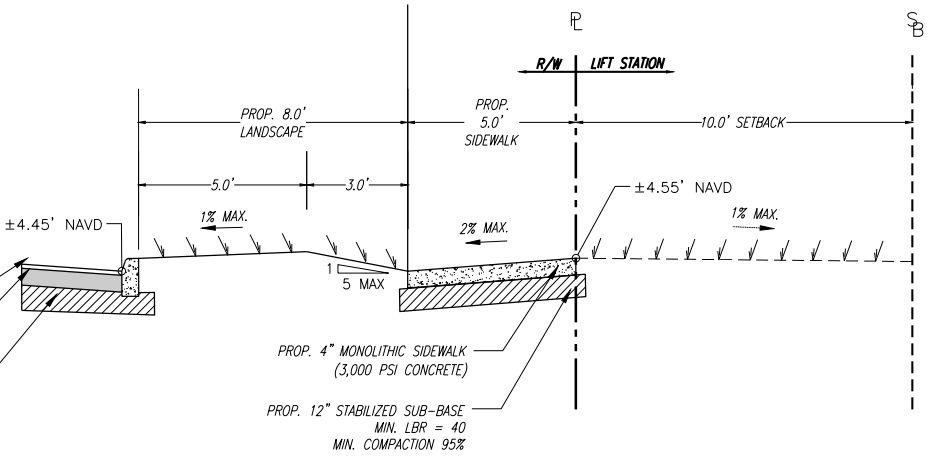


SECTION 'B'
N.T.S.

- SECTION NOTES:
- AFTER BALLAST ROCK HAS BEEN PLACED, IT SHALL BE CAREFULLY COMPACTED IN ORDER TO ALLOW FOR INITIAL SETTLEMENT. ADDITIONAL BALLAST ROCK SHALL BE ADDED, AS NEEDED, TO RESTORE THE BALLAST ROCK TO THE PROPER ELEVATION. REPEAT UNTIL SETTLEMENT NO LONGER OCCURS.
 - FILTER FABRIC SHALL BE PLACED ALONG THE FULL LENGTH OF THE BOTTOM, SIDES, AND ENDS OF THE INFILTRATION TRENCH.



SECTION 'C'
N.T.S.



SECTION 'D'
N.T.S.

GENERAL NOTES:

- ALL APPLICABLE PERMITS MUST BE OBTAINED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- ALL MATERIALS AND CONSTRUCTION UNDER THIS PROJECT SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF MIAMI BEACH, PUBLIC WORKS DEPARTMENT.
- THE LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES AS SHOWN ON THE APPROVED PLANS ARE TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER OF ANY DISCREPANCY OR VARIATION FROM THE APPROVED DRAWINGS.
- THE CONTRACTOR SHALL BE RESPONSIBLE AT ALL TIMES THROUGHOUT THE DURATION OF CONSTRUCTION FOR THE PROTECTION OF EXISTING AND NEWLY INSTALLED UTILITIES AND IMPROVEMENTS FROM DAMAGE, DISRUPTION OF SERVICE, OR DESTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING NECESSARY MEASURES TO PROTECT THE HEALTH, SAFETY, AND WELFARE OF THOSE PERSONS HAVING ACCESS TO THE WORK SITE.
- THE CONTRACTOR SHALL MAINTAIN A CURRENT APPROVED SET OF CONSTRUCTION PLANS ON SITE. THE PLANS ARE TO BE MADE AVAILABLE TO THE ENGINEERING INSPECTOR OF THE CITY OF MIAMI BEACH OR HIS DESIGNEE UPON REQUEST.
- THE CONTRACTOR SHALL PROVIDE ACCESS AND ASSISTANCE TO THE CITY ENGINEER OR HIS DESIGNEE TO MAKE INSPECTIONS, AS NECESSARY, DURING CONSTRUCTION.
- NO DEVIATION FROM APPROVED PLANS SHALL BE PERMITTED WITHOUT THE WRITTEN CONSENT OF THE CITY ENGINEER OR HIS DESIGNEE.
- CONTRACTOR MUST CALL CITY OF MIAMI BEACH, PUBLIC WORKS DEPARTMENT TO OBTAIN A RIGHT OF WAY PERMIT AND ARRANGE A PRE-CONSTRUCTION MEETING 48 HOURS PRIOR TO START OF CONSTRUCTION.
- ENGINEERING PERSONNEL WILL INSPECT ALL FACILITIES APPROVED BY THEIR OFFICE. ALL OTHER REQUIREMENTS OF THE PERMITTING AGENCIES SHALL BE IN ACCORDANCE WITH THEIR STANDARDS.
- TRENCH EXCAVATIONS IN EXCESS OF 5 FEET DEEP SHALL COMPLY WITH THE TRENCH SAFETY ACT AS PER O.S.H.A. STANDARD 29 CFR 1926.650 SUBPART P IN STATUTES. THE TRENCHES AND DITCHES SHALL BE PROTECTED IN ACCORDANCE WITH RULE 38c 43.02 FAC AND 6A-1.095(2).
- ERECTION OR INSTALLATION OF APPROPRIATE SAFETY AND WARNING DEVICES SHALL BE REQUIRED DURING THE COURSE OF CONSTRUCTION. SAID DEVICES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA DEPARTMENT OF TRANSPORTATION'S "MANUAL ON TRAFFIC CONTROL AND SAFETY PRACTICES" AND THE MIAMI-DADE COUNTY PUBLIC WORKS MANUAL.
- PLANS AND SPECIFICATIONS REQUIRE THAT COMPACTED BACKFILL BE PLACED ALONGSIDE OF AND OVER ALL UTILITIES. THE CITY ENGINEER RESERVES THE RIGHT TO TAKE ANY ACTION TO VERIFY BACKFILL COMPACTION. THE COST OF SUCH COMPACTION TESTS WILL BE BORNE BY THE CITY. THE RETESTING COST, DUE TO FAILURE OF THE COMPACTION TEST, WILL BE PAID BY THE CONTRACTOR.
- WORK PERFORMED UNDER THIS PROJECT WILL NOT BE CONSIDERED COMPLETE UNTIL THE FOLLOWING DOCUMENTS ARE RECEIVED BY THE CITY OF MIAMI BEACH, PUBLIC WORKS DEPARTMENT:
A. CONTRACTOR'S, SUBCONTRACTOR'S AND SUPPLIER'S WAIVER AND RELEASE OF LIEN.
B. CONTRACTOR'S LETTER OF WARRANTY (I.E. LETTER OF AGREEMENT).
C. "AS BUILT" - FOUR (4) ORIGINALS 22"x34" & 11"x17" SIGNED AND SEALED BY A FLORIDA REGISTERED LAND SURVEYOR SHOWING SPECIFIC LOCATION, DEPTH, ETC. OF ALL CITY FACILITIES TOGETHER WITH A DIGITAL COPY IN AUTOCAD LAST VERSION 2011 OF THE "AS-BUILT" DRAWINGS USING STATE PLANE FLORIDA EAST FIPS 0901 FEET MAP 1983 (FEET).
- THESE PLANS ARE PREPARED FROM UTILITY INFORMATION OF PREVIOUS AND RECENT AVAILABLE RECORDS. THE DESIGNER IS NOT LIABLE FOR ANY UTILITY CONFLICTS AND UNKNOWN FACTS THAT ARE DISCOVERED DURING CONSTRUCTION. CONTRACTOR SHALL FIELD VERIFY EXISTING UTILITIES. IN CASE THAT A CONFLICT ARISES, THE ENGINEER OF RECORDS OR HIS DESIGNEE SHALL BE INFORMED TO MAKE THE APPROPRIATE DESIGN CHANGES.



APPROVED: [Signature]
REVIEWED: [Signature]
DATE: 10/11/2011

GENERAL NOTES

GN1a

GENERAL NOTES:

- FOR SPECIFICATIONS, PLEASE REFER TO THE CITY OF MIAMI BEACH PUBLIC WORKS MANUAL.
- DUE TO SOIL CONDITIONS, HIGH WATER TABLE AND PROTECTION OF ROADWAY, UTILITIES AND EXISTING LANDSCAPING, SHORING WILL BE REQUIRED FOR TRENCH AND STRUCTURE CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT THE PROPOSED METHOD OF CONSTRUCTION TO THE ENGINEER FOR APPROVAL AT THE PRECONSTRUCTION MEETING. THE COST OF SHORING WILL BE INCLUDED IN THE COSTS OF STRUCTURE AND PIPES. DEWATERING MAY BE REQUIRED AND SHALL BE INCLUDED IN THE COSTS OF STRUCTURES AND PIPES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING TURBIDITY BARRIER AT ALL OUTFALLS SUBJECT TO POTENTIAL DISCHARGE DURING CONSTRUCTION. SEE FDOT INDEX NO 104. CONTRACTOR SHALL BE RESPONSIBLE FOR FULL KNOWLEDGE OF ALL APPLICABLE REGULATORY REQUIREMENTS AND CORRECT ANY SILTATION OR OTHER DAMAGE TO THE DRAINAGE SYSTEM.
- CONTRACTOR SHALL PROVIDE MAINTENANCE OF TRAFFIC DURING CONSTRUCTION IN ACCORDANCE WITH ALL STATE, COUNTY AND LOCAL REQUIREMENTS.
- WHEN POWER POLES ARE ADJACENT TO ANY PROPOSED UTILITY, THE CONTRACTOR SHALL PROVIDE PROPER SHORING OR OTHER SUITABLE SUPPORT DURING CONSTRUCTION. THE SHORING AND SUPPORT METHODS SHALL BE APPROVED BY THE UTILITY COMPANY ENGINEERING DEPARTMENT.
- ALL DEFECTIVE WORK NOT ACCEPTED BY THE CITY ENGINEER OR HIS DESIGNEE, OR BY ANY GOVERNMENT PERMITTING AGENCY SHALL BE IMMEDIATELY REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL CONTACT FWD TO INSPECT METERS AND BOXES AHEAD OF CONSTRUCTION TO DETERMINE WHETHER REPLACEMENT IS NECESSARY.
- ELEVATIONS ARE REFERRED TO NAVD 88, BASED ON A _____ BENCH MARK
NO. _____ ELEVATION: _____ (NGV DATUM) = _____ (NAVD 88) LOCATOR: _____
NAME: _____ ELEVATION: _____ (NGV DATUM) = _____ (NAVD 88) LOCATOR: _____
LOCATED AT: _____
- PROVIDE RESTRAINING BY THE USE OF FIELD LOCK GASKET ON TYTON JOINT PIPE AND AS MANUFACTURED BY U.S. PIPE OR EQUAL.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING UNINTERRUPTED WATER SERVICE DURING THE CONSTRUCTION OF THE TIE-IN CONNECTION OF ALL PROPOSED WATER SYSTEMS TO ANY EXISTING WATER SERVICE LINES. ABANDONMENT SHALL NOT OCCUR UNTIL THE PROPOSED WORK HAS BEEN APPROVED AND ACCEPTED FOR OPERATION BY THE ENGINEER OF RECORD AND THE CITY OF MIAMI BEACH PUBLIC WORKS DEPARTMENT, WATER DIVISION. CONTRACTOR SHALL REQUEST FROM CMB 48 HOURS PRIOR FOR WATER MAIN SHUTDOWN.
- ALL WATER METER BOXES DAMAGED DURING CONSTRUCTION SHALL BE REPLACED WITH CITY ISSUED WATER METER BOXES AND PAID FOR BY CONTRACTOR.
- ALL PROPOSED WATER METERS SHOULD BE A MINIMUM OF A 2-INCH SERVICE.
- CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE ACTUAL NUMBER OF EXISTING WATER SERVICES TO BE CONNECTED TO THE PROPOSED WATER MAIN.
- ALL DUCTILE IRON PIPE SHALL BE INSTALLED IN ACCORDANCE WITH ANSI/AWWA C 600 LATEST REVISIONS WITH A DETECTOR TAPE. DETECTOR TAPE SHALL BE 3" WIDE BLUE TAPE FOR WATER MAIN WITH A METALLIC FOIL CORE LAMINATED BETWEEN TWO LAYERS OF PLASTIC FILM. THE WORKS CAUTION LINE BURIED BELOW ON THE UPPER SIDE OF THE PIPE SHALL BE PRINTED AT 30" INTERVALS. ALONG THE TAPE, TAPE SHALL BE PLACED 18" BELOW GRADE ABOVE ALL WATER MAINS AND SERVICES OR AS RECOMMENDED BY MANUFACTURER. NON-METALLIC TAPE SHALL BE USED ABOVE DUCTILE IRON PIPE.



APPROVED: [Signature]
REVIEWED: [Signature]
DATE: 10/11/2011

GENERAL NOTES

GN1b

GENERAL NOTES:

- CONTRACTOR WILL BE RESPONSIBLE TO COORDINATE WITH HRS (DEPT. OF HEALTH) THE WATER SAMPLING AND BACTERIOLOGICAL TESTS AND FINAL CERTIFICATION FROM HRS.
- TAPPING SLEEVE VALVE TO BE PRESSURE TESTED AT 125 PSI FOR TWO (2) HOURS BEFORE TAPPING.
- THRUST BLOCK NOT ALLOWED UNLESS SPECIFICALLY APPROVED BY THE CITY ENGINEER. USE MEGALUGS OR CLASS 316 STAINLESS STEEL RESTRAINING RODS.
- CONTRACTOR SHALL EXERCISE CARE WHEN WORKING NEAR EXISTING CLAY PIPING.
- EXISTING FIRE HYDRANTS SHALL REMAIN IN SERVICE UNTIL THE NEW MAIN IS PLACED IN SERVICE. ONCE THE NEW MAIN IS IN SERVICE, THE OLD HYDRANT SHALL BE COVERED AND TAGGED WITH A SIGN INDICATING "OUT OF SERVICE" UNTIL IT IS REMOVED BY THE CONTRACTOR.
- NPDES BMP FOR SEDIMENTATION AND EROSION WORK MUST BE STRICTLY FOLLOWED DURING AND AFTER CONSTRUCTION.
- PIPES SHALL BE INSTALLED IN THE DRY.
- ALL D.I. PIPE SHALL BE THICKNESS CLASS 52 AND SHALL BE POLYWRAPPED AS PER W57.
- ALL RELATED HARDWARE FOR RESTRAINING RODS TO BE STAINLESS STEEL CLASS 316.
- A CONCRETE SLAB SHALL BE INSTALLED OVER ANY PIPE INSTALLED WITH LESS THAN 30" OF COVER AS PER STANDARD DETAIL SES1.
- ELEVATIONS ON PLANS REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
- THE CONTRACTOR SHALL BE GOVERNED BY THE LATEST APPLICABLE PORTIONS OF THE F.D.O.T. DESIGN STANDARDS, AND THE F.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND SUPPLEMENTS THERE TO IF NOTED IN THE SPECIAL PROVISIONS FOR THIS PROJECT.
- THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES IN THE PROJECT AREA BEFORE THE START OF CONSTRUCTION. SEE THE UTILITY CONTACT INFORMATION TABLE FOR CONTACT NUMBERS.
- ANY DAMAGED PUBLIC OR PRIVATE PROPERTY BY THE CONTRACTOR SHALL BE RESTORED TO PREEXISTING CONDITIONS OR BETTER AT NO EXPENSE TO THE OWNER.
- ALL CONSTRUCTION DEBRIS SHALL BE PROPERLY DISPOSED OF OFFSITE AT THE CONTRACTOR'S EXPENSE.
- PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL COMPLY WITH FLORIDA STATUTE 353.851 FOR THE PROTECTION OF UNDERGROUND GAS LINES.
- ERECTION OR INSTALLATION OF APPROPRIATE SAFETY AND WARNING DEVICES SHALL BE REQUIRED DURING THE COURSE OF CONSTRUCTION. SAID DEVICES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA DEPARTMENT OF TRANSPORTATION'S "MANUAL OF TRAFFIC CONTROL AND SAFETY PRACTICES" AND THE MIAMI-DADE COUNTY PUBLIC WORKS MANUAL.
- ALL EXISTING UTILITIES, MAN HOLE COVERS, ELECTRICAL BOXES, VALVE BOXES, METER BOXES, DRAINAGE STRUCTURES, ETC. WITHIN PROPOSED AREAS OF IMPROVEMENTS SHALL BE ADJUSTED TO GRADE ELEVATION, UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL REPLACE ALL UTILITY BOXES/COVERS DAMAGED DURING CONSTRUCTION. CONTRACTOR SHALL NOTE THE CONDITION OF WATER METER BOXES BEFORE STARTING WORK. IF EXISTING WATER METER BOXES ARE DAMAGED, CONTACT THE CITY OF MIAMI BEACH FOR REPLACEMENT.
- CONTRACTOR SHALL USE A STREET SWEEPER (USING WATER) OR OTHER EQUIPMENT CAPABLE OF CONTROLLING AND REMOVING DUST. APPROVAL OF THE USE OF SUCH EQUIPMENT IS CONTINGENT UPON ITS DEMONSTRATED ABILITY TO DO THE WORK.



APPROVED: [Signature]
REVIEWED: [Signature]
DATE: 10/11/2011

GENERAL NOTES

GN1c

GENERAL NOTES:

- THE COLOR OF THE DETECTABLE WARNINGS ON CONCRETE OF COLORS OTHER THAN MIAMI BEACH RED, COORDINATE WITH THE PUBLIC WORKS DEPARTMENT FOR APPROPRIATE COLOR AND CONTRAST.
- ALL SIGNING AND PAVEMENT MARKINGS INSTALLED AS PART OF THESE PLANS SHALL CONFORM TO THE LATEST EDITION OF THE FEDERAL HIGHWAY ADMINISTRATION (FHWA) MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS. ALL SIGN PANELS SHALL BE FABRICATED TO COMPLY WITH THE LATEST EDITION OF THE FEDERAL HIGHWAY AND ADMINISTRATION STANDARD HIGHWAY SIGNS.
- MATCH EXISTING PAVEMENT MARKINGS AT THE BEGINNING AND THE END OF THE PROJECT WITHOUT JOGS OR OFFSETS.
- INCORRECTLY PLACED (THERMOPLASTIC OR) PAINT MARKINGS OVER ASPHALT PAVEMENT WILL BE REMOVED BY MILLING AND REPLACING THE ASPHALT PAVEMENT A MINIMUM WIDTH 18 IN. AT THE CONTRACTOR'S EXPENSE. THE ENGINEER MAY APPROVE AN ALTERNATE METHOD IF IT CAN BE DEMONSTRATED TO COMPLETELY REMOVE THE MARKINGS WITHOUT DAMAGING THE ASPHALT.



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REVIEWED: [Signature]
DATE: 10/11/2011

GENERAL NOTES

GN1d

DERM NOTES ON WATER-SEWER INSTALLATION:

- A HORIZONTAL DISTANCE OF AT LEAST 6 FEET, AND PREFERABLY 10 FEET (OUTSIDE TO OUTSIDE), SHALL BE MAINTAINED BETWEEN GRAVITY OR PRESSURE SEWER PIPES AND WATER PIPES. THE MINIMUM HORIZONTAL SEPARATION CAN BE REDUCED TO 3 FEET FOR VACUUM-TYPE SEWERS OR FOR GRAVITY SEWERS WHERE THE BOTTOM OF THE SEWER PIPE IS AT LEAST 6 INCHES BELOW THE BOTTOM OF THE WATER PIPE.
WHEN THE ABOVE SPECIFIED HORIZONTAL DISTANCE CRITERIA CANNOT BE MET DUE TO AN EXISTING UNDERGROUND FACILITY CONFLICT, SMALLER SEPARATIONS ARE ALLOWED IF:
a- THE SEWER PIPES ARE DESIGNED AND CONSTRUCTED EQUAL TO THE WATER PIPE AND PRESSURE TESTED AT 150 PSI.
b- THE SEWER IS ENCASED IN A WATERTIGHT CARRIER PIPE OR CONCRETE.
c- THE TOP OF THE SEWER IS AT LEAST 18 INCHES BELOW THE BOTTOM OF THE WATER PIPE.
- A VERTICAL DISTANCE OF AT LEAST 12 INCHES (OUTSIDE TO OUTSIDE) SHALL BE MAINTAINED BETWEEN ANY WATER AND SEWER MAINS WITH SEWER PIPES PREFERABLY CROSSING UNDER WATER MAINS. THE MINIMUM VERTICAL SEPARATION CAN BE REDUCED TO 6 INCHES FOR VACUUM-TYPE SEWERS OR FOR GRAVITY SEWERS WHERE THE SEWER PIPE IS BELOW THE WATER MAIN. THE CROSSING SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST 6 FEET FROM ALL JOINTS IN GRAVITY AND PRESSURE SEWER PIPES. THE DISTANCE CAN BE REDUCED TO 3 FEET FOR VACUUM-TYPE SEWERS. WHEN THE ABOVE SPECIFIED VERTICAL DISTANCE CRITERIA CANNOT BE MET DUE TO AN EXISTING UNDERGROUND FACILITY CONFLICT, SMALLER SEPARATIONS ARE ALLOWED IF:
a- THE SEWER PIPES ARE DESIGNED AND CONSTRUCTED EQUAL TO THE WATER PIPE AND PRESSURE TESTED AT 150 PSI.
b- THE SEWER IS ENCASED IN A WATERTIGHT CARRIER PIPE OR CONCRETE.
- IN HIGHLY CONGESTED AREAS, WHERE EITHER WATER OR SEWER FACILITIES ARE EXISTING AND THE SEPARATION REQUIREMENTS CANNOT BE MET, SPECIAL CONSIDERATION MAY BE GIVEN SUBJECT TO SUBMITTAL OF DOCUMENTATION SHOWING THAT THE PROPOSED ALTERNATIVE WILL RESULT IN AN EQUIVALENT LEVEL OF RELIABILITY AND PUBLIC HEALTH PROTECTION.
- THE CONTRACTOR SHALL VERIFY NATURE, DEPTH, AND CHARACTER OF EXISTING UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.
- ALL OTHER PUBLIC OR PRIVATE UTILITY FACILITIES SHALL BE CONSTRUCTED AT LEAST 5 FEET FROM ANY WATER AND SEWER MAIN AS MEASURED FROM THE OUTSIDE BELL OF THE WATER OF THE UTILITY PIPE.
- WHEN THE 5 FEET SEPARATION BETWEEN PROPOSED AND EXISTING LINE IS NOT POSSIBLE, THE CONTRACTOR SHALL HAND DIG OR EXPOSE THE WATER AND SEWER PIPES BEFORE PROCEEDING WITH POWER EQUIPMENT EXCAVATION.
- IN NO CASE SHALL A CONTRACTOR INSTALL UTILITY PIPES, CONDUITS, CABLES, ETC. IN THE SAME TRENCH PARALLEL AND ABOVE AN EXISTING WATER OR SEWER PIPE EXCEPT WHERE THEY CROSS ANY DEVIATION FROM NOTES 6, 7 AND 8 SHALL BE APPROVED IN WRITING BY THE RESPONSIBLE WATER AND SEWER UTILITY.
- A NON-RESETTABLE ELAPSED TIME METER SHALL BE INSTALLED AT EACH PUMP TO RECORD THE TOTAL NUMBER OF OPERATING HOURS OF THE STATION.



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REVIEWED: [Signature]
DATE: 10/11/2011

DERM NOTES

GN1e

ENGINEER'S NOTES:

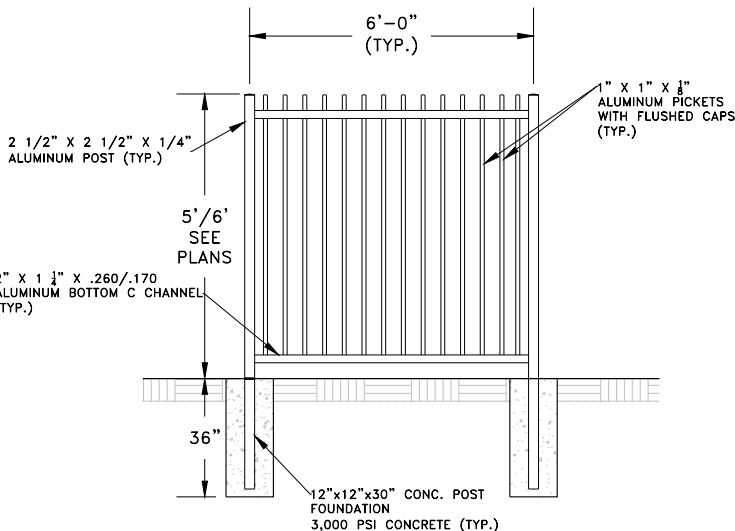
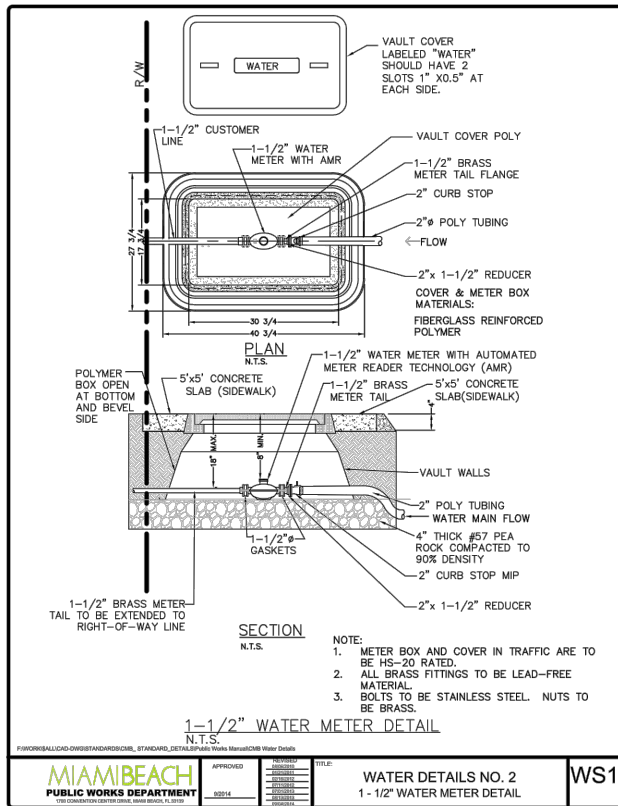
- EXISTING UNDERGROUND UTILITIES: INFORMATION SHOWN ON THE DRAWINGS AS TO THEIR LOCATION AND CHARACTER HAS BEEN PREPARED FROM THE MOST RELIABLE DATA AVAILABLE TO THE ENGINEER. THE ACCURACY OF THIS INFORMATION IS NOT GUARANTEED. THE CONTRACTOR SHALL CONTACT SUNSHINE STATE, ONE CALL OF FLORIDA, INC. (1-800-432-4770) TWO (2) BUSINESS DAYS PRIOR TO ANY EXCAVATION TO DETERMINE SAID LOCATIONS AND THE LOCATIONS OF RECENT ADDITIONS TO THE SYSTEMS NOT SHOWN. EXTREME CAUTION SHALL BE EXERCISED BY THE CONTRACTOR TO ELIMINATE ANY POSSIBILITY OF DAMAGE TO UTILITIES DURING CONSTRUCTION. THE LOCATION AND CHARACTER OF ALL UTILITIES SHALL BE VERIFIED AND THE OWNER'S REPRESENTATIVE NOTIFIED OF ANY CONFLICT THAT MIGHT OCCUR.
- ALL EXISTING GRASSSED AREAS DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES SHALL BE SODDED COMPLETELY AS DIRECTED BY THE CONSTRUCTION MANAGER AT NO ADDITIONAL COST TO THE OWNER.
- PROTECT MATERIALS AND EQUIPMENT ON SITE FROM WEATHER, DUST, AND DEBRIS AT ALL TIMES, AND AVOID THE CREATION OF NUISANCE OR HAZARD IN THE SURROUNDING AREA.
- UNSCHEDULED ITEMS SHALL BE RESTORED TO THEIR ORIGINAL DESIGN AND FUNCTION AT CONTRACTOR'S EXPENSE.
- WHERE PAVEMENT DEMOLITION IS REQUIRED, THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION TO PROTECT AND PREVENT DAMAGE TO ADJACENT STRUCTURES AND PAVEMENTS TO REMAIN. LIMITS OF PAVEMENT DEMOLITION SHALL BE PERFORMED IN A NEAT, STRAIGHT LINE BY SAW CUTTING.
- EXISTING BENCHMARKS LOCATED WITHIN THE LIMITS OF CONSTRUCTION SHALL NOT BE DISTURBED. IN THE EVENT THAT THE BENCHMARKS ARE DISTURBED OR DESTROYED, THEY SHALL BE REPLACED UPON COMPLETION OF THE PROJECT.
- ADJUSTMENT AND CLEANING: CLEAN DEBRIS FROM AREAS OF DEMOLITION LEAVING AREA SUITABLE FOR WORK.
- FALL MATERIALS RESULTING FROM DEMOLITION WORK SHALL BECOME THE PROPERTY OF THE CONTRACTOR. REMOVE FROM SITE AND DISPOSE OF THESE MATERIALS IN A MANNER AND LOCATION APPROVED BY MIAMI-DADE COUNTY REGULATIONS.



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DATE: 10/11/2011

ENGINEER'S NOTES

GN1f



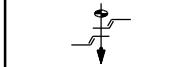
ALUMINUM FENCE DETAIL

COLOR: BLACK



CITY MANAGER: JIMMY L. MORALES
PW DIRECTOR: ROY COLEY, P.E.
CIP DIRECTOR: DAVID MARTINEZ, P.E.
CITY ENGINEER: LUIS SOTO, P.E.

Schwelbke
Shiskin &



Associates, Inc.

LAND SURVEYORS
CIVIL ENGINEERS
LAND PLANNERS
LB#87 CA#87

3240 CORPORATE WAY
MIRAMAR, FL 33025
TEL: (305)652-7010
FAX: (305)652-8284

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NEIGHBORHOOD: BISCAYNE BEACH

CIVIL UTILITY
NOTES + DETAILS

TITLE:

DRB FINAL

ENG. OF RECORD: Luis F. Leon, PE
TITLE: Assistant Vice President
ENGINEER NO.: 58670
DRAWN BY: DCT
CHECKED BY: LFL
SCALE: As Noted

FIELD BOOK: ---
PAGE: ---
PURCHASE ORDER: 20181531-00

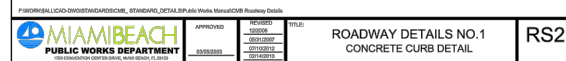
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ISSUE DATE: 08/03/18

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C-12

OF: 31

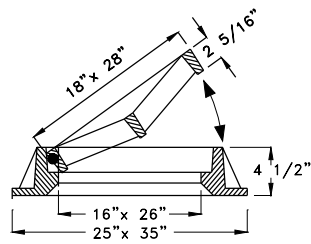


DETAIL FOR MATCHING EXISTING PAVEMENT
N.T.S.

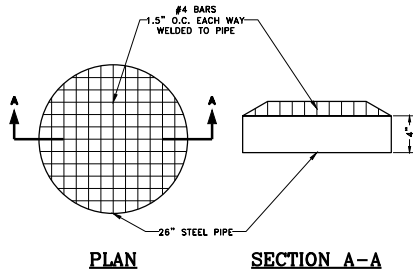
TYPICAL CURB ENDING

ACCESSIBLE SYMBOL & PARKING
DETAIL

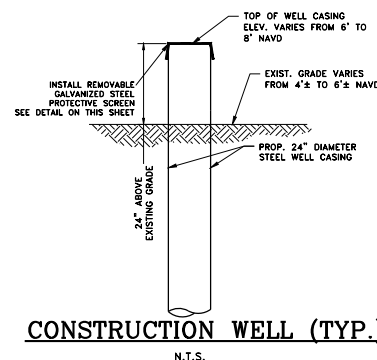
FDOT INDEX 000-515
PLAN A
TURNOUT WITH SIDEWALK AND UTILITY
STRIP (LESS THAN 10')



**USF #4700 & 6223 GRATE
HINGED FRAME**
N.T.S.



**REMOVABLE GALVANIZED STEEL
PROTECTIVE SCREEN DETAIL**
N.T.S.



CONSTRUCTION WELL (TYP.)
N.T.S.

- CONSTRUCTION NOTES:**
- CONTRACTOR SHALL USE NON-SHRINK GROUT BETWEEN 4" CONC. BAFFLE AND LID OF STRUCTURE TO ENSURE WATER PROOF SEAL.
 - CONTRACTOR SHALL MORTAR THE TRANSITION FROM THE STRUCTURE'S TOP SLAB THROUGH THE BRICKING TO THE FRAME AND GRATE INSIDE AND OUT TO ENSURE WATER TIGHT (WATER PROOF) SEAL. NON-SHRINK GROUT MUST BE USED AT ALL EDGES & JOINTS TO PREVENT LEAKAGE.

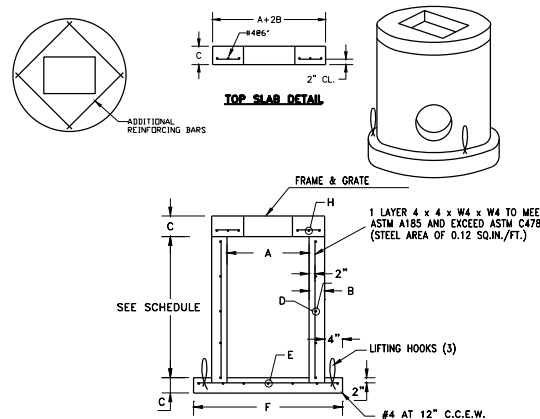


TABLE OF DIMENSIONS									
AØ	B	C	D	E* C.C.E.W.	FØ	GØ	H* C.C.E.W.	HOLDING BRACKET (SPIN/ALS)	
3'-6"	4"	8"	ASTM C-478	#4 AT 12"	4'-8"	4'-2"	#4 AT 6"	72	
3'-6"	6"	8"	ASTM C-478	#4 AT 12"	5'-0"	4'-6"	#4 AT 6"	72	
4'-0"	6"	8"	ASTM C-478	#4 AT 12"	6'-0"	5'-0"	#4 AT 6"	94	
4'-0"	8"	8"	ASTM C-478	#4 AT 12"	6'-4"	5'-4"	#4 AT 6"	94	
5'-0"	8"	8"	ASTM C-478	#5 AT 12"	7'-4"	6'-4"	#5 AT 6"	147	
6'-0"	8"	8"	ASTM C-478	#5 AT 6"	8'-0"	7'-0"	#5 AT 6"	211	
6'-0"	8"	8"	ASTM C-478	#5 AT 6"	8'-4"	7'-4"	#5 AT 6"	211	
7'-0"	8"	8"	ASTM C-478	#5 AT 6"	9'-4"	8'-4"	#5 AT 6"	288	
8'-0"	10"	10"	ASTM C-478	#5 AT 6"	10'-8"	9'-8"	#6 AT 6"	376	
10'-0"	12"	12"	ASTM C-478	#5 AT 6"	12'-0"	12'-0"	#6 AT 6"	587	

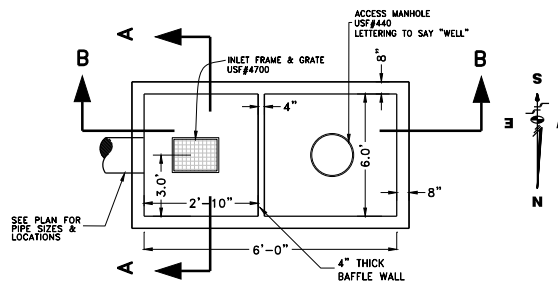
*GRADE 40, OR FOR EQUIVALENT STEEL DESIGNS.

**TYPE "C" CATCH BASIN
42"-120" ROUND STRUCTURE**

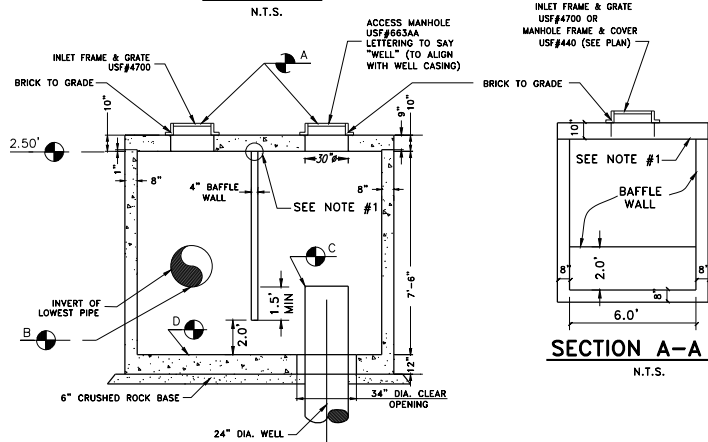
DRAINAGE WELL #1 & INLET
N.T.S.

WELL #	A	B	C	D
1	4.50'	(-)1.50'	(-)1.50'	(-)5.00'

WELL #	LAT.	LONG.
#1	25° 52' 01.24" N	80° 07' 44.52" W



TOP VIEW
N.T.S.



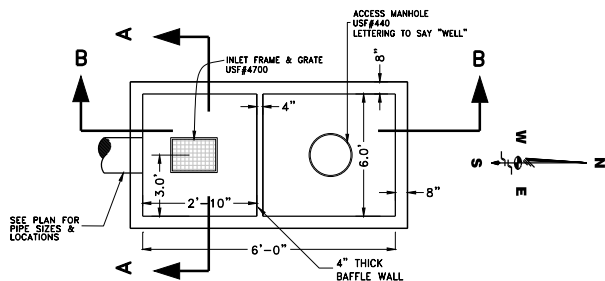
SECTION B-B
N.T.S.

NOTE #1:
CONTRACTOR SHALL GROUT BETWEEN 4" CONC. BAFFLE AND LID OF STRUCTURE TO INSURE WATER PROOF SEAL

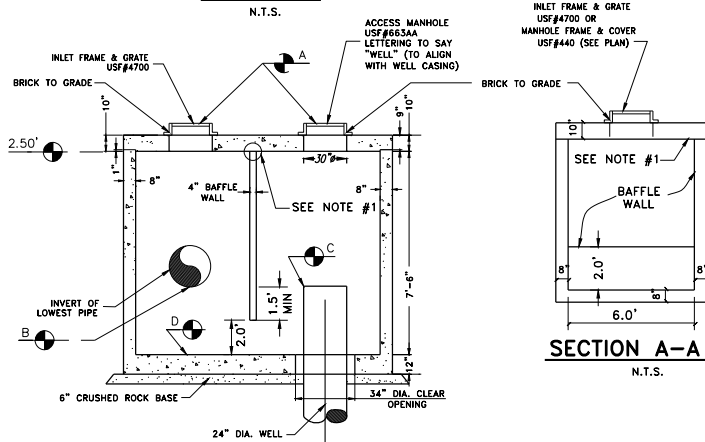
DRAINAGE WELL #2 & INLET
N.T.S.

WELL #	A	B	C	D
2	4.50'	(-)1.50'	(-)1.50'	(-)5.00'

WELL #	LAT.	LONG.
#2	25° 52' 01.40" N	80° 07' 43.33" W



TOP VIEW
N.T.S.

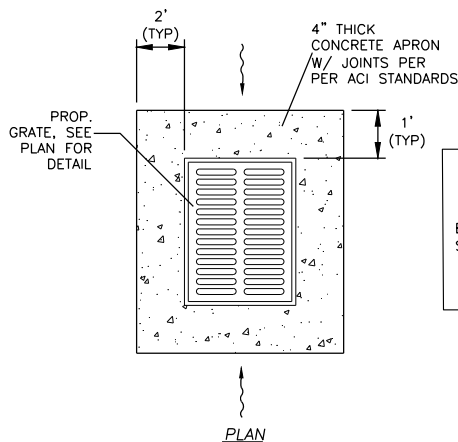


SECTION B-B
N.T.S.

NOTE #1:
CONTRACTOR SHALL GROUT BETWEEN 4" CONC. BAFFLE AND LID OF STRUCTURE TO INSURE WATER PROOF SEAL

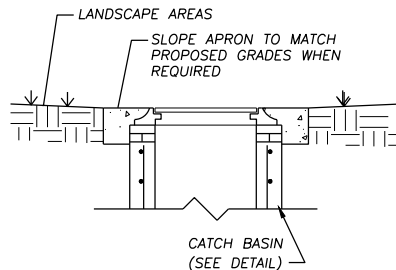
STRUCTURE TABLE

STRUCTURE NUMBER	RIM ELEVATION	INVERTS				FLOOR ELEVATION	STRUCTURE TYPE	FRAME & GRATE
		NORTH	SOUTH	EAST	WEST			
#S-1	3.10	-0.40	--	--	--	-2.40	TYPE 'C' - 42" Ø	USF 4700-6223
#S-2	3.30	-0.40	-0.40	--	-0.40	-2.40	TYPE 'C' - 42" Ø	USF 4700-6223
#S-3	3.10	-0.40	-0.40	-0.40	--	-2.40	TYPE 'C' - 42" Ø	USF 4700-6223
#S-4	3.10	-0.40	--	--	--	-2.40	TYPE 'C' - 42" Ø	USF 4700-6223
#S-5	2.65	--	-0.35	--	--	-2.35	12" NYLOPLAST	ADS GRATE



NOTE

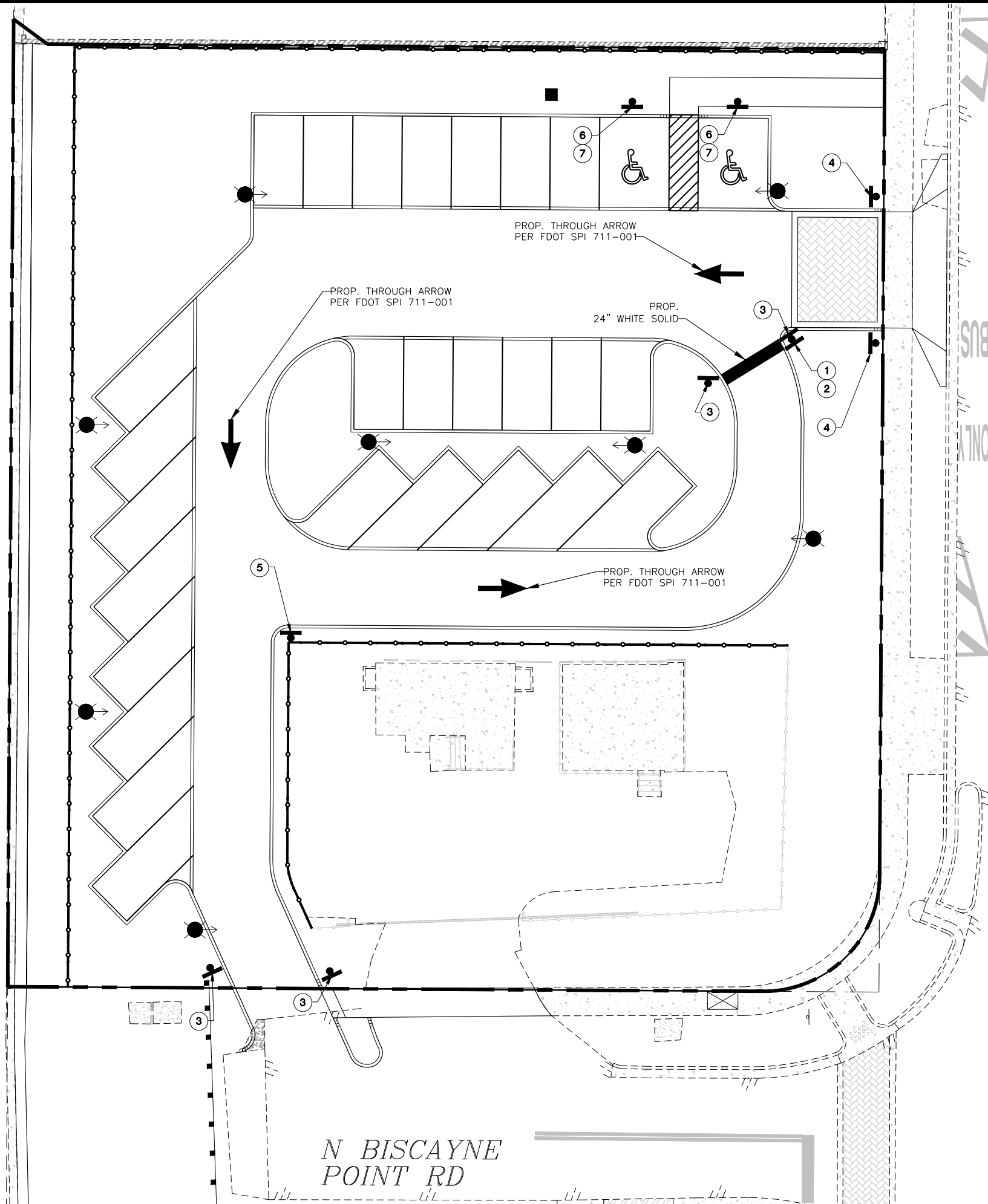
PROVIDE CONCRETE APRON WHEN CATCH BASIN W/ INLET (SEE STRUCTURE TABLE) IS LOCATED IN LANDSCAPE AREAS.



CONCRETE APRON FOR INLETS
N.T.S.

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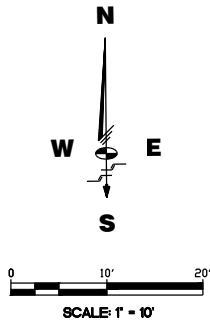
CANAL



HAWTHORNE
AVENUE

81st STREET

N BISCAYNE
POINT RD



LEGEND



SIGN

GENERAL NOTES

1. ALL PAVEMENT MARKING SHALL BE PAINT, UNLESS OTHERWISE NOTED.
2. ALL TRAFFIC LINES OR ARROWS WITHIN THE DECORATIVE PAVER FIELD SHALL BE CREATED WITH YELLOW OR WHITE PAVER INSERTS. NO PAINT SHALL BE APPLIED ON THE PAVER FIELD.
3. ALL SIGNS AND POSTS SHALL FOLLOW CITY OF MIAMI BEACH PUBLIC WORKS MANUAL (LATEST EDITION), DETAILS RS29, RS30, AND RS31.

SIGNAGE INDEX

1	2	3	4	5	6	7	
R1-1 30"x30"	R3-5L 24"x30"	R5-1 30"x30"	R5-1a 36"x24"	R6-2L 24"x36"	FTD-25 12"x18"	-- 12"x8"	

MIAMI BEACH
CAPITAL IMPROVEMENT PROJECTS
CITY MANAGER: JIMMY L. MORALES
PW DIRECTOR: ROY COLEY, P.E.
CIP DIRECTOR: DAVID MARTINEZ, P.E.
CITY ENGINEER: LUIS SOTO, P.E.

*Schweelke
Shiskin &*

Associates, Inc.

LAND SURVEYORS
CIVIL ENGINEERS
LAND PLANNERS
LB#87 CA#87

3240 CORPORATE WAY
MIRAMAR, FL 33025
TEL: (305)652-7010
FAX: (305)652-8284

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NEIGHBORHOOD:
BISCAYNE BEACH

TITLE:
**PAVEMENT MARKING & SIGNAGE
PLAN**

DRB FINAL

ENG. OF RECORD: Luis F. Leon, PE
TITLE: Assistant Vice President
ENGINEER No.: 58670
DRAWN BY: DCT
CHECKED BY: LEL
SCALE: As Noted

FIELD BOOK: ---
PAGE: ---
PURCHASE ORDER: 20181531-00
FILE NAME: PM.dwg

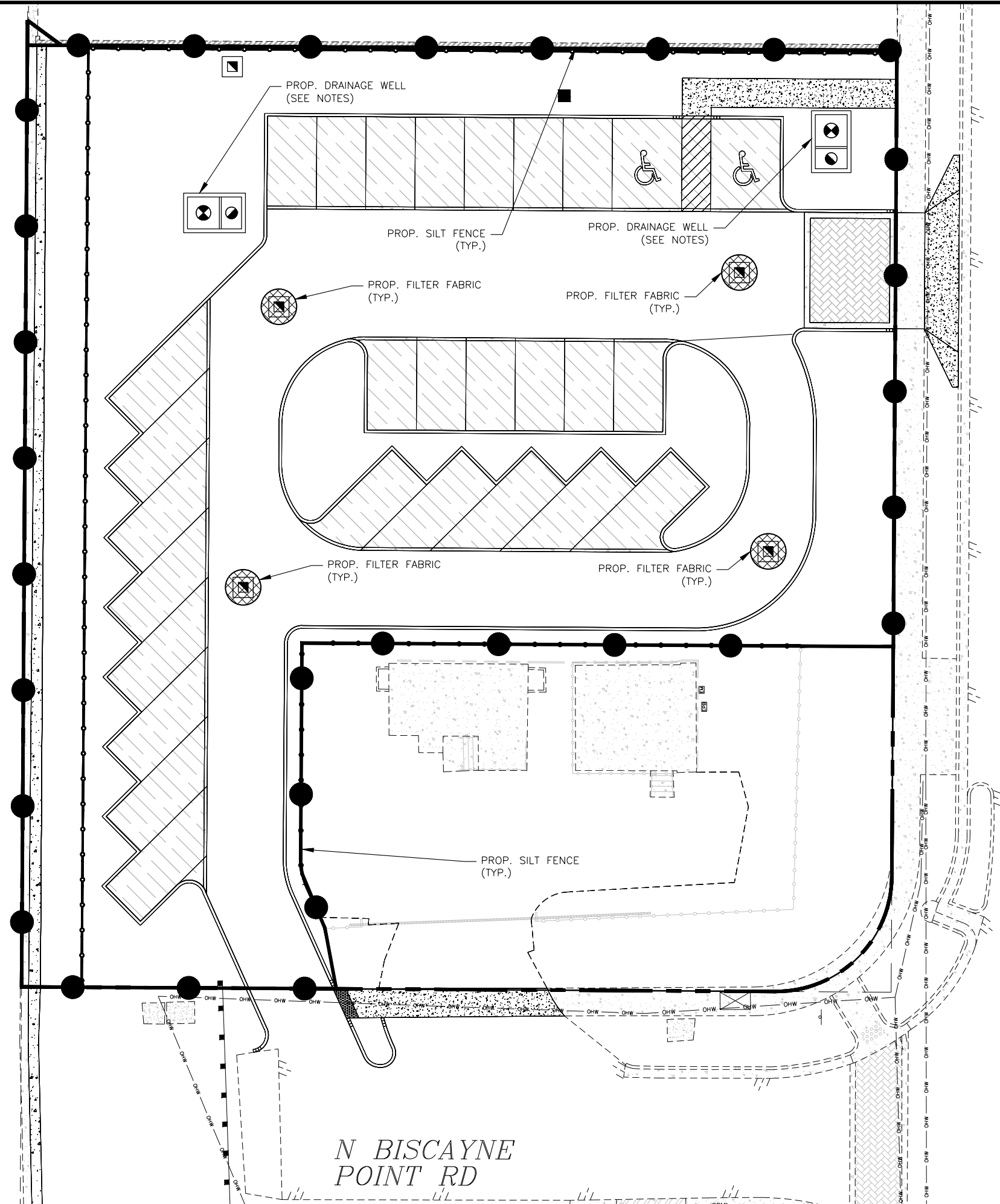
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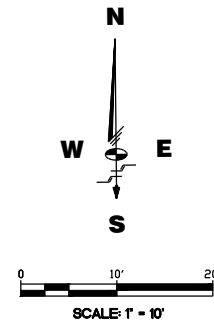
CANAL



HAWTHORNE
AVENUE

81st ST

N BISCAYNE
POINT RD



GENERAL NOTES

1. PROPOSED DRAINAGE WELLS NOT TO BE USED FOR DEWATERING.

MIAMI BEACH
CAPITAL IMPROVEMENT PROJECTS
1 PREPARED FOR CENTER DRIVE, MIAMI BEACH, FL 33139

CITY MANAGER: JIMMY L. MORALES

PW DIRECTOR: ROY COLEY, P.E.

CIP DIRECTOR: DAVID MARTINEZ, P.E.

CITY ENGINEER: LUIS SOTO, P.E.

*Schweelke
Shiskin &
Associates, Inc.*

LAND SURVEYORS
CIVIL ENGINEERS
LAND PLANNERS
LB#87 CA#87

3240 CORPORATE WAY
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TEL: (305)652-7010
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NEIGHBORHOOD:
BISCAYNE BEACH

TITLE:
EROSION & SEDIMENT CONTROL
PLAN

DRB FINAL

ENG. OF RECORD: Luis F. Leon, PE

TITLE: Assistant Vice President

ENGINEER No.: 58670

DRAWN BY: DCT

CHECKED BY: LEF

SCALE: As Noted

FIELD BOOK: ---

PAGE: ---

PURCHASE ORDER: 20181531-00

FILE NAME: ESC.dwg

ISSUE DATE: 08/03/18

Dwg. No:
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OF: 31

General Sediment and Erosion Control Notes

1. The contractor is responsible for following the best erosion and sediment control practices as outlined in the plans, specification, applicable permits, and the prevention, correction, control, and abatement of erosion and water pollution in accordance with chapter 62-302, Florida Administrative Code.

2. Erosion and sediment control barriers shall be placed where there is potential for downstream water quality degradation.

3. The site contractor is responsible for removing the temporary erosion and sediment control devices after completion of construction and only when areas have been stabilized.

4. The site contractor is responsible for the maintenance of BMPs to make sure they are functioning as designed at all times.

5. The BMP structures shall be inspected after each rain and repairs made as needed. Sediment deposits should be removed after each rainfall. They must be removed when the level of deposition reaches approximately one-half the height of the barrier.

6. Correctly installed silt fences will be used along the limits of construction to minimize offsite siltation migration.

7. Sod shall be placed in areas which may require immediate erosion protection to ensure water quality standards are maintained and where no active construction is occurring.

8. The contractor shall pay for any water quality control violations from any agency that results in fines being assessed to the owner because of the contractor's failure to eliminate turbid runoff from leaving the site and raising background levels of turbidity above existing background levels.

9. Wire mesh shall be laid over the top drop inlet so that the wire extends a minimum of 1 foot beyond each side of the inlet structure. Hardware cloth or comparable wire mesh with 3/8 inch opening shall be used. If more than one strip of mesh is necessary the strips shall be overlapped.

10. FOOT NO. 1 coarse aggregate shall be placed over the wire mesh as indicated on detail. The depth of stone shall be at least 12 inches over the entire inlet opening. The stone shall extend beyond the inlet opening at least 18 inches on all sides.

11. If the stone filter becomes clogged with sediment so that it no longer adequately performs its function, the stone must be pulled away from the inlet, cleaned and replaced.

12. The filter barrier shall be entrenched and backfilled. A trench shall be excavated around the inlet and width of a bale to a minimum depth of four inches. After the bales are stacked, the excavated soil shall be backfilled and compacted against the filter barrier.

13. Bale shall be either wire-bound or string-tied with the bindings oriented around the sides rather than over and under the bales.

14. Bales shall be placed lengthwise in single row surrounding the inlet with the ends of adjacent bales pressed together.

15. Each bale shall be securely anchored and held in place by at least two stakes or rebars driven through the bale.

16. Loose straw should be wedged between bales to prevent water from entering between bales.

17. Floating turbidity barriers will be placed at all outfall locations connected to the work area during active construction. If snaglines are present barriers will not be placed over them. The floating turbidity barriers shall be installed in a manner to prevent manatee entanglement.

18. Turbidity barriers to be marked with site contractor's company name using permanent markings no smaller than 3 inches in height on the top of the barrier.

EROSION AND SEDIMENT CONTROL GENERAL NOTES

N.T.S.

MIAMI BEACH

PUBLIC WORKS DEPARTMENT

THE CITY OF MIAMI BEACH, FLORIDA

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SITE EARTHWORK DETAILS NO.2

EROSION AND SEDIMENT CONTROL GENERAL NOTES

SES14

1. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING SILT FROM SITE IF NOT REMOVED ON-SITE AND ASSURING PROPER ALIGNMENT AND GRADE OF ALL DITCHES AND SWALES AT COMPLETION OF CONSTRUCTION.

2. THE SITE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER COMPLETION OF CONSTRUCTION AND ONLY WHEN AREAS HAVE BEEN STABILIZED.

3. ADDITIONAL PROTECTION: ON-SITE PROTECTION MUST BE PROVIDED THAT WILL NOT PERMIT SILT TO LEAVE THE PROJECT CONTAINS DUE TO UNFORESEEN CONDITIONS OR ACCIDENTS.

4. CONTRACTOR SHALL INSURE THAT ALL DRAINAGE STRUCTURES, PIPES, ETC. ARE CLEANED OUT AND WORKING PROPERLY AT TIME OF ACCEPTANCE.

5. WIRE MESH SHALL BE LAID OVER THE TOP DROP INLET SO THAT THE WIRE EXTENDS A MINIMUM OF 1 FOOT BEYOND EACH SIDE OF THE INLET STRUCTURE. HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH 3/8-INCH OPENING SHALL BE USED IF MORE THAN ONE STRIP OF MESH IS NECESSARY. THE STRIPS SHALL BE OVERLAPPED.

6. FOOT NO. 1 COARSE AGGREGATE SHALL BE PLACED OVER THE WIRE MESH AS INDICATED ON DETAIL. THE DEPTH OF STONE SHALL BE AT LEAST 12 INCHES OVER THE ENTIRE INLET OPENING. THE STONE SHALL EXTEND BEYOND THE INLET OPENING AT LEAST 18 INCHES ON ALL SIDES.

7. IF THE STONE FILTER BECOMES CLOGGED WITH SEDIMENT SO THAT IT NO LONGER ADEQUATELY PERFORMS ITS FUNCTION, THE STONE MUST BE PULLED AWAY FROM THE INLET, CLEANED AND REPLACED.

8. BALE SHALL BE EITHER WIREBOUND OR STRING-TIED WITH THE BINDINGS ORIENTED AROUND THE SIDES RATHER THAN OVER AND UNDER THE BALES.

9. BALE SHALL BE PLACED LENGTHWISE IN SINGLE ROW SURROUNDING THE INLET, WITH THE ENDS OF ADJACENT BALES PRESSED TOGETHER.

10. THE FILTER BARRIER SHALL BE ENTRENCHED AND BACKFILLED. A TRENCH SHALL BE EXCAVATED AROUND THE INLET AND WIDTH OF A BALE TO A MINIMUM DEPTH OF FOUR INCHES. AFTER THE BALES ARE STACKED, THE EXCAVATED SOIL SHALL BE BACKFILLED AND COMPACTED AGAINST THE FILTER BARRIER.

11. EACH BALE SHALL BE SECURELY ANCHORED AND HELD IN PLACE BY AT LEAST TWO STAKES OR REBARS DRIVEN THROUGH THE BALE.

12. LOOSE STRAW SHOULD BE WEDGED BETWEEN BALE STRIPS TO PREVENT WATER FROM ENTERING BETWEEN BALES.

EROSION AND SEDIMENT CONTROL NOTES

N.T.S.

MIAMI BEACH

PUBLIC WORKS DEPARTMENT

THE CITY OF MIAMI BEACH, FLORIDA

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SITE EARTHWORK DETAILS NO.3

EROSION AND SEDIMENT CONTROL NOTES

SES15

13. HAYBALE BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.

14. CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED BALES, END RUNS AND UNDERCUTTING BENEATH BALES.

15. NECESSARY REPAIRS TO BARRIERS OR REPLACEMENT OF BALES SHALL BE ACCOMPLISHED PROMPTLY.

16. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL. THEY MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.

17. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE HAYBALE BARRIER IS NO LONGER REQUIRED SHALL BE PRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDDED.

18. SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.

19. SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER IS STILL NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.

20. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.

21. SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.

22. THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE BEST EROSION AND SEDIMENT CONTROL PRACTICES AS OUTLINED IN THE PLANS, SPECIFICATIONS AND APPLICABLE WATER MANAGEMENT DISTRICT PERMITS FOR THIS PROJECT.

23. FOR ADDITIONAL INFORMATION ON SEDIMENT AND EROSION CONTROL, REFER TO THE FLORIDA DEVELOPMENT MANUAL - A GUIDE TO SOUND LAND AND WATER MANAGEMENT, FROM THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION (DER), CHAPTER 6.

24. EROSION AND SEDIMENT CONTROL BARRIERS SHALL BE PLACED ADJACENT TO ALL WETLAND AREAS WHERE THERE IS POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADATION.

EROSION AND SEDIMENT CONTROL NOTES

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THE CITY OF MIAMI BEACH, FLORIDA

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EROSION AND SEDIMENT CONTROL NOTES

SES15

25. ALL DISTURBED AREAS SHALL BE GRASSED, FERTILIZED, MULCHED AND MAINTAINED UNTIL A PERMANENT VEGETATIVE COVER IS ESTABLISHED.

26. SOIL SHALL BE FERTILIZED IN AREAS WHICH MAY REQUIRE TO REVEGETATE. EROSION PROTECTION TO PREVENT WATER QUALITY DEGRADATION ARE MAINTAINED.

27. ANY DISCHARGE FROM DOWNSIDE DRAINAGE ACTIVITY SHALL BE FILTERED AND CONVEYED TO THE DETENTION BASIN BY A MANHOLE WHICH PREVENTS EROSION AND TRANSPORTATION OF SUSPENDED SOLIDS TO THE RECEIVING OUTFALL.

28. DISCHARGE BARRIERS SHALL NOT EXCEED THE CAPACITY OF THAT WHICH REQUIRES A CONFINEMENT TO PREVENT FROM THE APPLICABLE WATER MANAGEMENT DISTRICT.

29. ALL DISTURBED AREAS TO BE STABILIZED THROUGH CONSTRUCTION, SIFT SCREENS, HAYBALES AND/OR GRASSING. ALL THE SCREENS MUST BE REMOVED TO PREVENT STAKED SOLID SOIL.

30. ALL DRAINAGE, EROSION, AND SEDIMENT CONTROL TO REMAIN IN PLACE AFTER COMPLETION OF CONSTRUCTION AND BE REMOVED ONLY WHEN AREAS HAVE BEEN STABILIZED.

31. THIS PLAN INDICATES THE MINIMUM EROSION AND SEDIMENT CONTROL MEASURES REQUIRED FOR THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MEETING ALL APPLICABLE RULES, REGULATIONS AND WATER QUALITY GUIDELINES AS MAY NEED POSSIBLE ADDITIONAL CONTROLS.

32. ALL EROSION AND SEDIMENT CONTROL SHALL BE DONE IN A MANNER TO MINIMIZE WATER TURBIDITY AND POLLUTION. DISCHARGE SHALL BE CONTROLLED AND REDUCED THROUGH HAYBALES, SIFT SCREENS, BARRIERS AND SWALES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREVENTION, CORRECTION, CONTROL, AND MAINTENANCE OF EROSION AND WATER POLLUTION IN ACCORDANCE WITH CHAPTER 62-302, FLORIDA ADMINISTRATIVE CODE.

33. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ANY SEDIMENT THAT LEAVES THE SITE AND CHANGES ANY DOWNSTREAM CONDITIONS BY RAISING CHANNEL BOTTOMS AND/OR CLOGGING OF OUTFALL CULVERTS.

34. THE CONTRACTOR SHALL PAY FOR ANY WATER QUALITY CONTROL VIOLATIONS FROM ANY AGENCY THAT RESULTS IN FINES BEING ASSESSED TO THE OWNER. REMOVAL OF THE STRUCTURES SHALL BE RESPONSIBLE FOR THE PREVENTION, CORRECTION, CONTROL, AND MAINTENANCE OF EROSION AND WATER POLLUTION IN ACCORDANCE WITH CHAPTER 62-302, FLORIDA ADMINISTRATIVE CODE.

35. A MINIMUM OF ONE OF THE EROSION CONTROL MEASURE OPTIONS SHOWN FOR ALL DROP INLETS WILL BE USED BY THE CONTRACTOR.

36. FLOATING TURBIDITY BARRIERS WILL BE PLACED AT ALL OUTFALL LOCATIONS. IF SNAGLINES ARE PRESENT BARRIERS WILL NOT BE PLACED OVER THEM. THE FLOATING TURBIDITY BARRIERS SHALL BE INSTALLED IN A MANNER TO PREVENT MANATEE ENTANGLEMENT.

37. SILT FENCES OR HAYBALES WILL BE USED ALONG BOTH SIDES OF LINES OF CONSTRUCTION TO MINIMIZE OFFSITE SILTATION MIGRATION.

EROSION AND SEDIMENT CONTROL NOTES

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PUBLIC WORKS DEPARTMENT

THE CITY OF MIAMI BEACH, FLORIDA

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SITE EARTHWORK DETAILS NO.3

EROSION AND SEDIMENT CONTROL NOTES

SES15

DIVERSION RIDGE REQUIRED WHERE GRADE EXCEEDS 2%

2% OR GREATER

EXISTING PAVED ROADWAY

SECTION A - A

NOTE: USE SANDBAGS, STRAW BALES OR OTHER APPROVED METHODS TO CHANNELIZE RUNOFF TO BASIN AS REQUIRED.

SPILLWAY

SILT FENCE

SUPPLY WATER TO WASH WHEELS IF NECESSARY.

FLOW

FLOW

2'-3" COURSE AGGREGATE MIN. 6" THICK

12" MIN.

30' MIN.

PLAN

NOTES:

1. ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR PUBLIC RIGHTS.

2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.

3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

Washing

If conditions on the site are such that most of the mud is not removed by the vehicles traveling over the stone, then the vehicle tires must be washed before entering a public road. Wash water must be carried away from the entrance to a settling area to remove sediment (see Figure 4.3b of the Florida Stormwater Erosion and Sedimentation Control Inspector's Manual). A wash rack may also be used to make washing more convenient and effective (see Figure 4.3c of the Florida Stormwater Erosion and Sedimentation Control Inspector's Manual).

Location

The entrance should be located to provide for maximum utility by all construction vehicles.

Construction Specifications

The entrance area should be cleared of all vegetation, roots, and other objectionable material. A geotextile should be laid down to improve stability and simplify maintenance when gravel is used. The gravel shall then be placed over the geotextile to the specified dimensions.

Maintenance

The stabilized construction exit shall be maintained in a condition that will prevent the tracking or flow of mud onto public rights of way. This may require periodic maintenance as conditions demand, and the repair and/or cleanup of any structures used to trap sediments. All materials spilled, dropped, washed, or tracked from vehicles onto roadways or into storm drains must be removed immediately. Look for signs of trucks and trailer equipment "cutting corners" where the construction exit meets the roadway. Sweep the paved road as needed.

STAKED AND ENTRENCHED HAYBALE

BINDING WIRE OR TWINE

FILTERED RUNOFF

COMPACTED SOIL TO PREVENT PIPING

SEDIMENT LADEN RUNOFF

CROSS-SECTION OF A PROPERLY INSTALLED HAYBALE

POINTS 'A' SHOULD BE HIGHER THAN POINT 'B' PROPER PLACEMENT OF HAYBALE BARRIER IN DRAINAGE WAY

NOTES:

1. EXCAVATE THE TRENCH.

2. PLACE AND STAKE HAYBALES.

3. WEDGE LOOSE STRAW BETWEEN BALES.

4. BACKFILL AND COMPACT THE EXCAVATED SOIL.

HAYBALE BARRIER

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THE CITY OF MIAMI BEACH, FLORIDA

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SITE EARTHWORK DETAILS NO.2

HAYBALE BARRIER

SES8

DROP INLET WITH GRATE

STAKES

BURLAP FABRIC

RUNOFF WATER WITH SEDIMENTS

BURIED BURLAP FABRIC

FILTERED WATER

SPECIFIC APPLICATION:

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPES NO GREATER THAN 5%) WHERE SHEET OR OVERLAND FLOWS (NOT EXCEEDING 0.50 CFS) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS IN STREET OR HIGHWAY MEDIANS.

BURLAP DROP INLET SEDIMENT FILTER

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THE CITY OF MIAMI BEACH, FLORIDA

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SITE EARTHWORK DETAILS NO.2

BURLAP DROP INLET SEDIMENT FILTER

SES9

DROP INLET WITH GRATE

HAYBALES STAKED WITH 2 STAKES PER BALE

COMPACTED SOIL TO PREVENT PIPING

RUNOFF WATER WITH SEDIMENTS

STAKED HAYBALE

FILTERED WATER

DROP INLET WITH GRATE

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPES NO GREATER THAN 5%) WHERE SHEET OR OVERLAND FLOWS (NOT EXCEEDING 0.50 CFS) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS IN STREET OR HIGHWAY MEDIANS.

HAYBALE DROP SEDIMENT FILTER

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THE CITY OF MIAMI BEACH, FLORIDA

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SITE EARTHWORK DETAILS NO.2

HAYBALE DROP SEDIMENT FILTER

SES10

WOVEN WIRE FENCE (MIN. 14 GAUGE, MAX. MESH SPACING)

10' O.C. (MAX.)

48" MIN. METAL FENCE POSTS DRIVEN INTO GROUND A MINIMUM OF 2'-0"

FILTER CLOTH (MIRAFI, POLYFILTER X) OR APPROVED EQUAL

2'-0" HEIGHT OF FILTER CLOTH

6'-0"

1'-0"

CONSTRUCTION SPECIFICATIONS:

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS BY USE OF WIRE TIES.

2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE BY USE OF WIRE TIES SPACED EVERY 24" X 24".

3. SILT FENCES TO BE INSTALLED IN LOCATIONS AS SHOWN ON THIS EROSION AND SEDIMENT CONTROL PLAN PRIOR TO BEGINNING OF CONSTRUCTION TO CONTROL SEDIMENT.

4. SILT FENCES TO BE MAINTAINED AND CLEANED AS NECESSARY TO MAINTAIN IN FUNCTIONAL CONDITION.

5. SILT FENCES TO BE REMOVED AND THE AREA TO BE RESTORED TO ITS NATURAL CONDITION WHEN PERMANENT EROSION AND SEDIMENT CONTROL PROCEDURES ARE EFFECTIVE.

FILTER FENCE

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THE CITY OF MIAMI BEACH, FLORIDA

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SITE EARTHWORK DETAILS NO.2

FILTER FENCE

SES13

NOTES:

1. CONTRACTOR IS TO SUBMIT THE NOTICE OF INTENT (NOI) APPLICATION PROVIDED ON THE DEP WEB SITE ALONG WITH THE APPLICATION FEE FOR SMALL CONSTRUCTION PROJECTS (LESS THAN 5 ACRES) OR FOR LARGE CONSTRUCTION PROJECTS (5 OR MORE ACRES) TO THE NOTICES CENTER. PLEASE CHECK WITH F-DEP FOR CURRENT PERMIT FEES. AUTHORIZATION IS GRANTED 48 HOURS AFTER THE DATE OF THE COMPLETE NOI APPLICATION IS POST-MARKED TO DEP. THE NOTICES CENTER WILL SEND AN ACKNOWLEDGMENT LETTER AFTER RECEIVING AND PROCESSING YOUR COMPLETE NOI APPLICATION AND FEE.

2. RESUBMIT NOI PACKAGE EVERY FIVE YEARS (IF CONSTRUCTION ACTIVITY EXCEEDS FIVE YEARS).

3. THE APPLICATION FEE IS SUBJECT TO CHANGE. ALWAYS CONFIRM THE AMOUNT BY CALLING THE NOTICES CENTER AT (866) 336-6312.

4. THE ADDRESS FOR NPDES STORMWATER NOTICES CENTER IS: FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION 2600 BLAIR STONE ROAD, MS#2510 TALLAHASSEE, FL. 32399-2400

5. THE MAILING ADDRESS FOR SOUTH FLORIDA WATER MANAGEMENT DISTRICT IS: P.O. BOX 24680, WEST PALM BEACH, FL 33416-4680

NOTE:

CONTRACTOR SHALL COMPLY WITH THIS PLAN AND THE FLORIDA STORMWATER EROSION AND SEDIMENTATION CONTROL INSPECTOR'S MANUAL BY F-DEP.

MIAMI BEACH

CAPITAL IMPROVEMENT PROJECTS

1100 CONVENT CENTER DRIVE, MIAMI BEACH, FL 33139

CITY MANAGER: JIMMY L. MOJICA

PW DIRECTOR: ROY COLEY, P.E.

CIP DIRECTOR: DAVID MARTINEZ, P.E.

CITY ENGINEER: LUIS SOTO, P.E.

Schwelbke Shiskin & Associates, Inc.

LAND SURVEYORS CIVIL ENGINEERS LAND PLANNERS

LB#87 CA#87

3240 CORPORATE WAY MIRAMAR, FL 33025

TEL: (305)652-7010

FAX: (305)652-8284

No.	Date	Revision	App'd By
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NEIGHBORHOOD:

BISCAYNE BEACH

TITLE:

EROSION & SEDIMENT CONTROL DETAILS

DRB FINAL

ENG. OF RECORD: Luis F. Leon PE

TITLE: Assistant Vice President

ENGINEER NO.: 58670

DRAWN BY: DCT

CHECKED BY: LFL

SCALE: As Noted

FIELD BOOK: ---

PAGE: ---

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Dwg. No:

C-17

OF: 31

ELECTRICAL GENERAL NOTES

1.

THE SCOPE OF WORK SHALL CONSIST PRIMARILY OF BUT NOT LIMITED TO THE FOLLOWING:
- A.

PROVIDE AND INSTALL NEW PARKING LOT LIGHTING SYSTEM AS SHOWN ON PLANS, FOR A COMPLETE WORKING SYSTEM IN PLACE.
2.

THE CONTRACTOR SHALL PROVIDE ALL MATERIALS AND LABOR TO INSTALL THE ELECTRICAL SYSTEMS AS INDICATED ON THE DRAWINGS. ITEMS NOT SHOWN BUT OBVIOUSLY NECESSARY FOR COMPLETION OF THE WORK SHALL BE INCLUDED.
3.

THE INSTALLATION SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, NATIONAL ELECTRICAL SAFETY CODE, LOCAL CODES, FLORIDA BUILDING CODE AND MIAMI BEACH CODES.
4.

THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, INSPECTIONS AND APPROVALS AND TO INCLUDE ALL FEES AS PART OF THEIR BID IF NOT OTHERWISE NOTED.
5.

THE CONTRACTOR SHALL COORDINATE THEIR WORK WITH THE ENGINEER AND OWNER.
6.

THE CONTRACTOR SHALL, BEFORE SUBMITTING THEIR BID, VISIT THE SITE OF THE PROJECT AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS. NO ALLOWANCE WILL BE MADE FOR EXISTING CONDITIONS OR FAILURE OF THE CONTRACTOR TO OBSERVE THEM.
7.

CONTRACTOR SHALL NOTIFY OWNER 48 HOURS IN ADVANCE OF ANY WORK THAT REQUIRES A POWER SHUTDOWN. CONTRACTOR SHALL PROVIDE A WORKING SCHEDULE IN WRITING TO OWNER SHOWING THE PROPOSED SCHEDULE OF WORK WITH THE ANTICIPATED TIME DURATIONS.
8.

IT IS THE CONTRACTOR’S RESPONSIBILITY TO COORDINATE WITH ALL LOCAL UTILITIES, INCLUDING THE POWER AND TELEPHONE UTILITIES TO MEET ALL OF THEIR INSTALLATION REQUIREMENTS. ALL FEES, LABOR, EQUIPMENT OR MATERIALS NECESSARY TO MEET THESE REQUIREMENTS IS TO BE INCLUDED IN THE BID. THE CONTRACTOR SHALL OBTAIN, DELIVER AND INSTALL ALL CONDUITS, PULL–BOXES AND EQUIPMENT AS REQUIRED BY THE UTILITIES TO MEET THEIR SPECIFICATIONS.
9.

ALL EQUIPMENT AND MATERIAL SHALL BE UNUSED AND U.L. LISTED. ALL REFERENCES TO A PARTICULAR MANUFACTURER ARE GIVEN ON AN "APPROVED ALTERNATE” BASIS.
10.

THE CONTRACTOR IS RESPONSIBLE TO TEST ALL SYSTEMS INSTALLED OR MODIFIED UNDER THIS PROJECT AND REPAIR OR REPLACE ALL DEFECTIVE WORK TO THE SATISFACTION OF THE ENGINEER AND OWNER.
11.

ALL EQUIPMENT FURNISHED AND INSTALLED BY THE CONTRACTOR SHALL BE GUARANTEED AGAINST DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF OWNER ACCEPTANCE.
12.

ALL CONDUCTORS SHALL BE COPPER WITH XHHW INSULATION. NO ALUMINUM ALLOWED UNLESS SPECIFICALLY INDICATED ON DRAWINGS.
13.

SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL ELECTRICAL SPECIAL SYSTEMS EQUIPMENT AND MATERIAL AND SHALL INCLUDE BUT NOT LIMITED TO THE FOLLOWING CIRCUIT BREAKERS, CONDUITS, CONDUCTORS, ENCLOSURES, POLES, BASES, PULLBOXES, MANHOLES, WINDLOAD CALCULATIONS, LIGHTING CONTACTORS, LIGHTING ASSEMBLIES, GROUND ROD, GROUNDING, JUNCTION BOX, CHANNEL AND ETC..
14.

ALL CONTROL PANELS SHALL BE CONSTRUCTED BY A UL 508A APPROVED PANEL VENDOR AND SHALL BARE A UL 508A LABEL ON THE PANEL.
15.

THE DRAWINGS ARE NOT INTENDED TO SHOW THE EXACT LOCATION OF CONDUIT RUNS. THESE ARE TO BE COORDINATED WITH THE OTHER TRADES SO THAT CONFLICTS ARE AVOIDED PRIOR TO INSTALLATIONS.
16.

ALL LOCATIONS OF EQUIPMENT, PANELS ETC. ARE SHOWN FOR ILLUSTRATION PURPOSES. CONTRACTOR SHALL VERIFY AND COORDINATE EXACT LOCATION AND SIZE WITH ALL SUBCONTRACTORS AND EQUIPMENT SUPPLIERS PRIOR TO ANY INSTALLATION AND THEN INSTALL AS SUCH WITH CORRESPONDING CONDUIT STUB–UPS.
17.

SEE OTHER DISCIPLINE DRAWINGS FOR COORDINATION OF ALL DRAWINGS. ANY CONFLICTS SHALL BE BROUGHT TO THE ENGINEER’S/OWNER’S ATTENTION AND MOVEMENT OF CONDUITS OR OTHER ELECTRICAL EQUIPMENT SHALL BE ACCOMPLISHED WITHOUT ANY ADDITIONAL COST FOR THE OWNER.
18.

LOCATIONS OF MANHOLES, HANDHOLES AND PULL BOXES ARE APPROXIMATE. CONTRACTOR SHALL COORDINATE EXACT LOCATION WITH EXISTING AND NEW PIPING OR CONDUIT AND ADJUST ACCORDINGLY.
19.

NOT ALL CONDUITS SHOWN ON RISER AND ONE–LINE DIAGRAMS ARE SHOWN ON BUILDING LAYOUTS. CONTRACTOR SHALL SUPPLY ALL CONDUITS AND CABLES AS SHOWN ON RISER AND ONE–LINE DIAGRAMS.
20.

ALL CIRCUITS SHALL BE IDENTIFIED IN JUNCTION BOXES, PULL BOXES, CONTROL PANELS, MINI–POWER ZONES, SWITCHBOARDS, PANELBOARDS, LIGHTING POLES, CONTROLLERS AND SERVICE POINTS. IDENTIFICATION SHALL MATCH PANELBOARD SCHEDULES.
21.

EXPOSED RUNS OF CONDUITS SHALL BE INSTALLED WITH RUNS PARALLEL OR PERPENDICULAR TO WALLS, STRUCTURAL MEMBERS OR INTERSECTIONS OF VERTICAL PLANES AND CEILINGS, WITH RIGHT ANGLE TURNS CONSISTING OF SYMMETRICAL BENDS OR PULL BOXES AS INDICATED ON THE DRAWINGS. BENDS AND OFFSETS SHALL BE AVOIDED WHERE POSSIBLE.
22.

CONDUCTOR PULLING TENSIONS SHALL NOT EXCEED MANUFACTURER’S RECOMMENDATION. CONTRACTOR SHALL INSTALL PULL BOXES TO MEET MANUFACTURER’S REQUIREMENTS.
23.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONDUIT AND WIRING INSTALLATION FOR ALL VENDOR PROVIDED EQUIPMENT (PACKAGE SYSTEMS). IF THE SHOP DRAWINGS DIFFER FROM THE DESIGNED FACILITIES, THE CONTRACTOR SHALL REDESIGN THE FACILITIES AND SUBMIT THE REVISED DESIGN FOR THE ENGINEER’S/OWNER’S APPROVAL ALONG WITH THE SHOP DRAWINGS. THERE SHALL BE NO ADDITIONAL COST TO THE OWNER FOR THE REDESIGN NOR FOR ANY ADDITIONAL CONDUITS AND WIRING. DURING SUBMITTAL THE CONTRACTOR SHALL VERIFY ALL SUPPLIED BREAKER SIZES FOR ALL PACKAGED SYSTEMS AND MODIFY ALL BREAKERS IN PANELBOARDS ACCORDINGLY WITHOUT ANY ADDITIONAL COST TO THE OWNER.
24.

ALL EXCAVATIONS FOR CONDUITS, HANDHOLES, MANHOLES AND PULLBOXES NEAR EXISTING PIPING, CONDUIT AND EQUIPMENT SHALL BE HAND EXCAVATED AND COORDINATED WITH ENGINEER AND OWNER.
25.

MINIMUM DEPTH FROM TOP OF DUCTBANKS OR CONDUITS TO FINISHED GRADE SHALL BE 24” UNLESS OTHERWISE NOTED.

26.

COLORED WARNING TAPE 6” WIDE SHALL BE INSTALLED 8” BELOW FINISHED GRADE DIRECTLY ABOVE ALL UNDERGROUND YARD CONDUITS ACCORDING TO THE FOLLOWING SCHEDULE:
POWER: RED
ALL OTHER CONDUITS: GREEN
27.

CONTRACTOR SHALL RESTORE SIDEWALKS, PARKING LOTS, ROADWAYS, SOD AND SPRINKLER SYSTEM TO MATCH EXISTING, AFTER THE COMPLETION OF THE CONDUIT AND PULLBOX INSTALLATION.
28.

GROUNDING SHALL BE INSTALLED IN ACCORDANCE WITH NEC, ARTICLE 250. THE GROUNDING SYSTEM TEST SHALL NOT EXCEED A 48 HOUR SPAN DRY RESISTANCE OF 25 OHMS. ADDITIONAL GROUNDING TO MEET THIS REQUIREMENT SHALL BE INSTALLED AT NO EXTRA COST. GROUNDING AND BONDING CONNECTIONS SHALL NOT BE PAINTED. ALL GROUNDING CONNECTIONS SHALL BE EXOTHERMIC UNLESS SPECIFICALLY INDICATED OTHERWISE.
29.

AN EQUIPMENT GROUND WIRE SIZED PER NEC SHALL BE PULLED IN ALL ELECTRICAL CONDUITS, POWER AND CONTROL, WHETHER OR NOT INDICATED ON THE PLANS.
30.

ALL ENCLOSURES, TJB, WIREWAY, PULL BOXES ETC. SHALL CONTAIN A GROUNDING BUS. CONNECT ALL RACEWAY BONDS TO THIS BUS VIA GROUNDING BUSHING AND EXTEND BONDING JUMPER FROM THIS BUS TO THE ENCLOSURE.
31.

ALL CONDUITS PENETRATING RATED FIRE WALLS OR RATED FIRE FLOORS SHALL BE INSTALLED WITH U.L. APPROVED DEVICES TO MAINTAIN THE FIRE RATING OF THE WALL OR FLOOR PENETRATED.
32.

PROVIDE CONDUIT DUCT SEAL AT ALL CONDUIT ENDS.
33.

ALL SPARE CONDUITS SHALL BE SEALED WITH A CAP AT BOTH ENDS AND A PULL STRING INSTALLED WITH IDENTIFICATION ON BOTH ENDS.
34.

TYPEWRITTEN PANEL SCHEDULES SHALL BE INSTALLED IN EACH PANELBOARD, AND TYPEWRITTEN TERMINAL BLOCK SCHEDULES IN EACH CONTROL CABINET.
35.

AS PART OF THE ELECTRICAL SUBMITTAL, CONTRACTOR SHALL PROVIDE A LAYOUT OF THE ELECTRICAL ROOM SHOWING SIZES OF ALL EQUIPMENT AND THER SPATIAL RELATIONSHIPS.
36.

CONTRACTOR SHALL BALANCE PANELBOARD LOADS AT THE END OF THE PROJECT.
37.

SCHEDULE 40 PVC SHALL BE USED UNDERGROUND. ALL ABOVE GROUND CONDUITS SHALL BE EMT IN AIR CONDITIONED AREAS AND RIGID GALVANIZED STEEL(RGS) IN NON–AIR CONDITIONED AREAS. MINIMUM CONDUIT SIZE SHALL BE 3/4”.
38.

COMBINING OF NEUTRAL CONDUCTORS SHALL NOT BE ALLOWED.
39.

THE CONTRACTOR MAY COMBINE CONDUCTORS TO LIMIT THE NUMBER OF CONDUITS LEAVING THE PANELBOARD. CONTRACTOR SHALL DERATE THE WIRES AS PER NEC AND INCREASE THE SIZE OF THE WIRES ACCORDINGLY.
40.

BRANCH AND FEEDER CONDUCTORS ARE SIZED FOR MAXIMUM VOLTAGE DROP OF 5 PERCENT COMBINED AT DESIGN LOAD PER THE 2017 FLORIDA BUILDING CODE –ENERGY CONSERVATION–C405.6.3.
41.

THE OWNER SHALL HAVE THE RIGHT TO SALVAGE MATERIALS THAT ARE TO BE REMOVED IN THE DEMOLITION PLANS. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER PRIOR TO DEMOLITION AND DELIVER SALVAGE MATERIAL TO THE OWNER/MAINTENANCE GROUP.
42.

THE CONTRACTOR SHALL INITIATE COORDINATION WITH FPL 30 DAYS PRIOR TO NTP FOR THE REQUISITION AND PICKUP OF ALL REQUIRED FPL PROVIDED MATERIALS IN ANTICIPATION OF INSTALLATION OF ALL CONDUITS, TRANSFORMER PADS, AND OTHER ASSOCIATED MATERIALS REQUIRED FOR SCHEDULING FPL CABLE INSTALLATION. PROVIDE AS–BUILT SURVEYS BY A LICENSED PROFESSIONAL SURVEYOR OF ALL FPL CONDUITS, FPL SPLICE BOXES, TRANSFORMER LOCATIONS, FOR A COMPLETE SYSTEM. THE AS–BUILTS SHALL INCLUDE LEGAL DESCRIPTIONS FOR THE DEVELOPMENT OF NEW EASEMENTS/LEASE AGREEMENTS AS REQUIRED BY FPL. SCHEDULE DIRECTLY WITH FPL FOR CABLE AND TRANSFORMER INSTALLATION UPON COMPLETION OF THE FPL PRIMARY SERVICE SYSTEM AND EASEMENT/LEASE AGREEMENTS SURVEY FOR THE PRIMARY SYSTEM. CONTRACTOR SHALL SCHEDULE MILESTONES DATES IN THE PROJECT SCHEDULE FOR START OF THE FPL SCOPE OF WORK AND COMPLETION.
43.

FOR CABLE COLOR CODE PLEASE REFER TO SPECIFICATION 16120.
44.

CONTRACTOR SHALL PROVIDE TO THE OWNER WITHIN 30 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE RECORD DRAWINGS DEPICTING THE COMPLETED INSTALLATION AS INSTALLED INCLUDING A SINGLE LINE DIAGRAM OF THE BUILDING ELECTRICAL DISTRIBUTION AND FLOOR PLANS INDICATING THE LOCATION AND AREA SERVED BY ALL INSTALLED DISTRIBUTIONS PER THE 2014 2017 FLORIDA BUILDING CODE–ENERGY CONSERVATION–C405.6.4.1.
45.

CONTRACTOR SHALL PROVIDE TO THE OWNER OPERATING AND MAINTENANCE MANUALS (O&M MANUALS) FOR ALL EQUIPMENT PER THE 2017 FLORIDA BUILDING CODE, DIVISION C405.6.4.2. THE MANUALS SHALL INCLUDE:

1.

SUBMITTAL DATA STATING EQUIPMENT RATING AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE.

2.

O&M MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.

3.

NAMES AND ADDRESSES OF AT LEAST ONE QUALIFIED SERVICE AGENCY
46.

ALL REFERENCES TO SS OR STAINLESS STEEL SHALL MEAN 316 STAINLESS STEEL.
47.

ALL ELECTRICAL EQUIPMENT SHALL BE PERMANENTLY IDENTIFIED AND SIGNED PER THE REQUIREMENTS OF THE NEC AND THE FLORIDA BUILDING CODE.
48.

MINIMUM DISTANCE ALLOWED BETWEEN POWER CONDUITS AND INSTRUMENTATION/COMMUNICATION CONDUITS SHALL BE:

VOLTAGE

DISTANCE

480V

2 FT

120V

1 FT
49.

THE CONTRACTOR SHALL FURNISH AN ARC FLASH HAZARD ANALYSIS STUDY PER 2017 NFPA 70E – STANDARD FOR ELECTRICAL SAFETY IN THE WORKPLACE, REFERENCE ARTICLE 130.5 (C)(1) AND ANNEX D, SEE SPECIFICATION 16015.

**HILLERS ELECTRICAL
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(561) 451-9185
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LICENSE NO: EB 0006877

MIAMI

BEACH

CAPITAL IMPROVEMENT PROJECTS

DESIGNER: JACQUES HENRI AND ASSOCIATES, INC.

CITY MANAGER: JIMMY L. MORALES

PW DIRECTOR: ROY COLEY, P.E.

CIP DIRECTOR: DAVID MARTINEZ, P.E.

CITY ENGINEER: LUIS SOTO, P.E.

Schwebke

Shiskin &



Associates, Inc.

LAND SURVEYORS
CIVIL ENGINEERS
LAND PLANNERS
LB#87 CA#87

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NEIGHBORHOOD:
BISCAYNE BEACH

TITLE:
ELECTRICAL GENERAL NOTES

DRB FINAL

ENG. OF RECORD: ANY LICENSED ENGINEER

TITLE: ENGINEER

ENGINEER No.: 73735

DRAWN BY: LPD

CHECKED BY: DEU

SCALE: As Noted

FIELD BOOK: ---

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FILE NAME: E-1.dwg

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E-1

OF: 7

	LEGEND
	SCHEDULE 40 P.V.C. DIRECT BURIED CONDUIT HAND EXCAVATE AND INSTALLED IN ROCK/EARTH. SEE SITE PLAN AND RISERS FOR SIZE AND QUANTITY OF CONDUIT AND CONDUCTORS.
	HDPE/SCHEDULE 40 P.V.C. CONDUIT DIRECTIONAL BORED UNDER EXISTING ROADWAY AND SIDEWALKS, COMPLETE. CONTRACTOR SHALL REMOVE AND REPLACE EXISTING SIDEWALK SECTIONS AS NECESSARY. SEE SITE PLAN AND RISERS FOR SIZE AND QUANTITY OF CONDUIT AND CONDUCTORS.
	NEW SINGLE ROADWAY STREET LIGHT AND POLE WITH A 1-100 WATT LED FIXTURE TYPE III WITH A 10' MOUNTING HEIGHT, PULL BOX, AND A CONCRETE BASE. NOTE: ARROW DENOTES AIMING OF FIXTURE. FIXTURE IS HOLOPHANE GRANVILLE II FIXTURE, MODEL NO. GVD2-P50-40K.
<div>P-# CKT. X STA. Y</div>	POLE IDENTIFICATION P-# = POLE NUMBER CKT. X = CIRCUIT IDENTIFICATION STA. Y = POLE LOCATION
	NEW SERVICE POINT
	NEW FPL PROVIDED SPLICE BOX

MIAMI

BEACH

CAPITAL IMPROVEMENT PROJECTS

CITY MANAGER:

JIMMY L. MORALES

PW DIRECTOR:

ROY COLEY, P.E.

CIP DIRECTOR:

DAVID MARTINEZ, P.E.

CITY ENGINEER:

LUIS SOTO, P.E.

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NEIGHBORHOOD:

BISCAYNE BEACH

TITLE:

ELECTRICAL LEGEND AND INSTALLATION NOTES

DRB FINAL

ENG. OF RECORD: ANY LICENSED ENGINEER

TITLE: ENGINEER

ENGINEER No.: 73735

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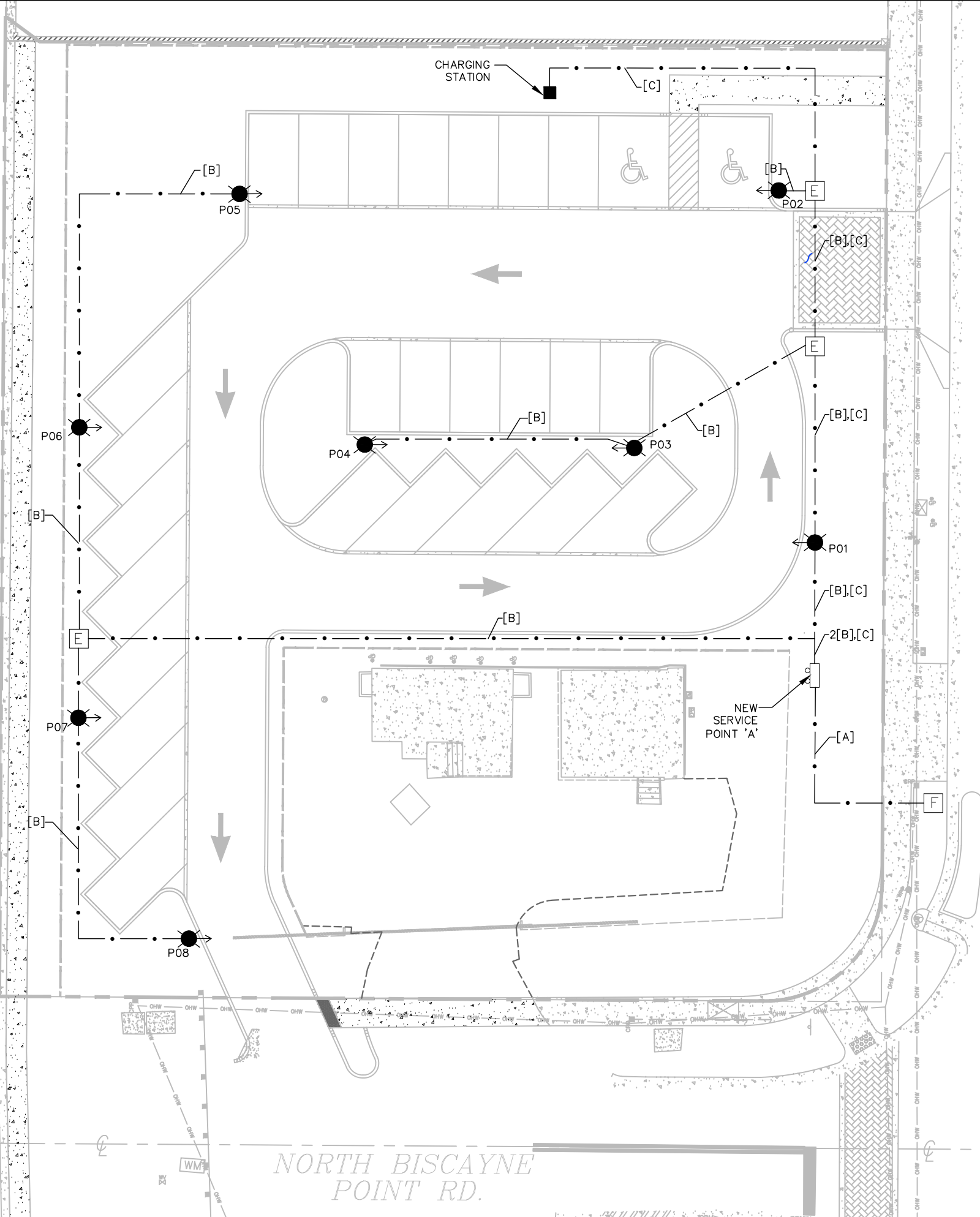
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LICENSE NO: EB 0006877

CANAL



CIRCUIT ID SCHEDULE:

- [A] = 2#3, 1#3 N/G, 2"C
[B] = 2#10, 1#10G, 2"C
[C] = 2"C (CHARGING STATION)

WINDLOADING NOTE:

ALL POLE INSTALLATIONS SHALL BE SUITABLE FOR 170 MPH WIND WITH APPROPRIATE GUST FACTOR PER APPLICABLE ZONE OF INSTALLATION AS DEFINED IN THE FLORIDA BUILDING CODE. THE CONTRACTOR SHALL INCLUDE WITH THE SHOP DRAWING SUBMITTAL, A POLE WIND LOADING CALCULATION SIGNED & SEALED BY A STRUCTURAL ENGINEER REGISTERED IN FLORIDA SHOWING THAT THE PROPOSED INSTALLATIONS WILL MEET THE GIVEN WIND LOADING REQUIREMENT.

WARNING!!!
THERE ARE A NUMBER OF PUBLIC UTILITIES, COMMUNICATIONS, UNDERGROUND CABLES AND PIPES TRAVERSING THE PROJECT SITE. THE ENGINEER HAS MADE EVERY ATTEMPT TO SHOW THE APPROXIMATE LOCATION OF ALL ITEMS. HOWEVER, THE ENGINEER IS NOT RESPONSIBLE FOR SHOWING OR LOCATING EVERY ITEM CURRENTLY IN PLACE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE EVERY ITEM LOCATED, FLAGGED, AND IDENTIFIED PRIOR TO STARTUP OF CONSTRUCTION. ANY DAMAGE DONE TO ANY OF THE EXISTING ITEMS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL REPAIR ANY ITEM DAMAGED, CAUSED BY HIS ACTIONS, WITH NO ADDITIONAL COMPENSATION.

CALL 48 HOURS
BEFORE YOU DIG

IT'S THE LAW!
DIAL 811



Know what's below.
Call before you dig.

SUNSHINE STATE ONE CALL OF FLORIDA, INC.

MIAMI BEACH

CAPITAL IMPROVEMENT PROJECTS

CITY MANAGER: JIMMY L. MORALES
PW DIRECTOR: ROY COLEY, P.E.
CIP DIRECTOR: DAVID MARTINEZ, P.E.
CITY ENGINEER: LUIS SOTO, P.E.

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NEIGHBORHOOD:
BISCAYNE BEACH

TITLE:
ELECTRICAL SITE PLAN

DRB FINAL

ENG. OF RECORD: ANY LICENSED ENGINEER

TITLE: ENGINEER

ENGINEER NO.: 73735

DRAWN BY: LPD

CHECKED BY: DEU

SCALE: As Noted

FIELD BOOK: ---

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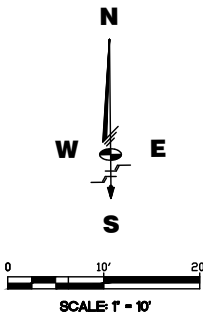
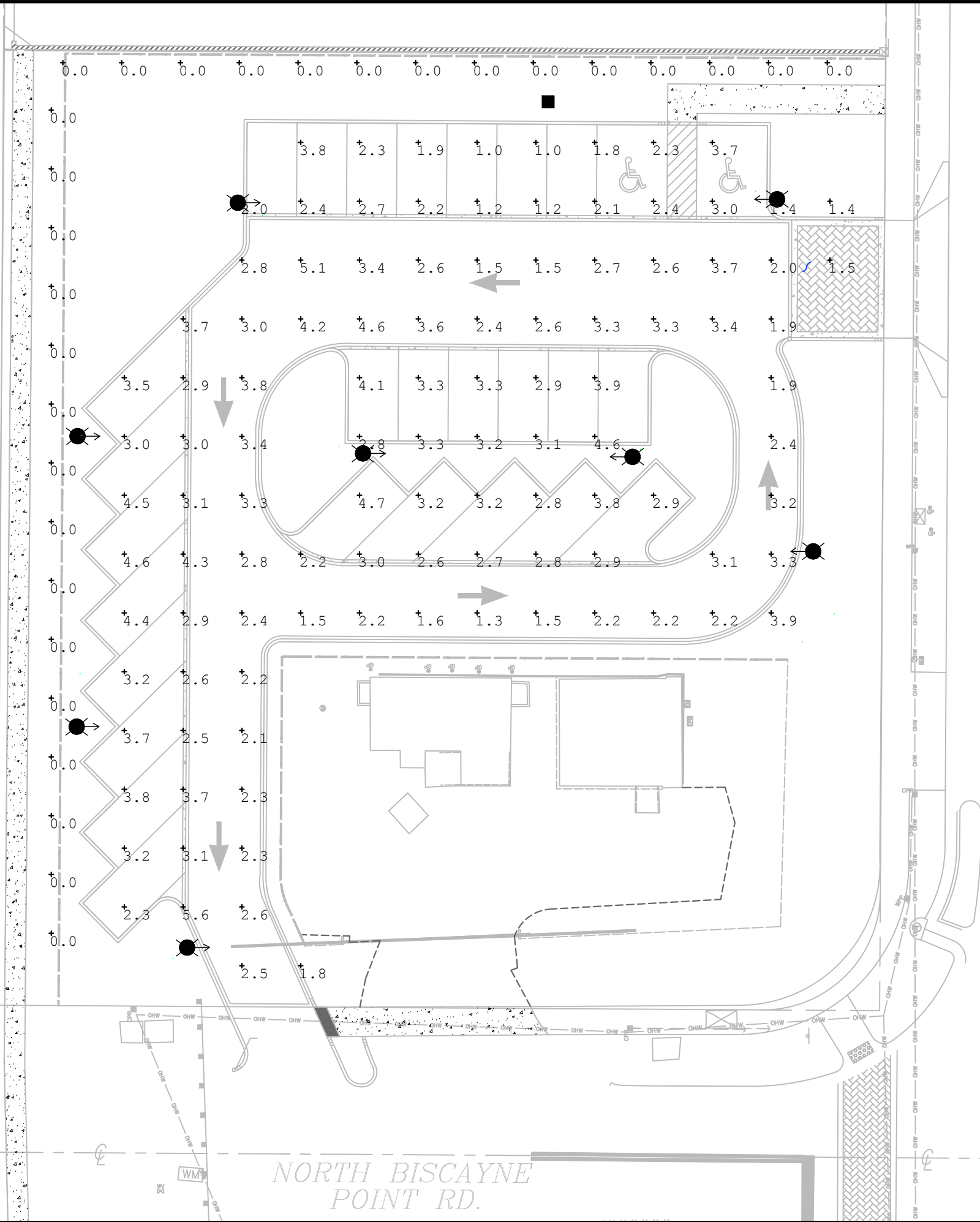
Dwg. No:

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OF: 7

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LICENSE NO: EB 0006877

CANAL



HAWTHORNE AVENUE

PHOTOMETRIC CALCULATIONS

SPACING	SYMBOL	MINIMUM	MAXIMUM	AVERAGE	MAX/MIN	AVG/MIN
10'	+	1.00	5.60	2.85	5.60	2.85

ACCORDING TO THE SECTION 13-1.3-H-1, THE LIGHTING CRITERIA FOR THIS LOCATION IS AN MINIMUM OF 1 FOOT CANDLE, AVERAGE TO MINIMUM RATIO OF 3:1, AND MAXIMUM TO MINIMUM IS 10:1

ALL LUMINARIES SHOWN ON PHOTOMETRIC PLAN HAVE A MOUNTING HEIGHT OF 10'.

81st



NORTH BISCAYNE
POINT RD.

MIAMI BEACH

CAPITAL IMPROVEMENT PROJECTS

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NEIGHBORHOOD: BISCAYNE BEACH

TITLE: PHOTOMETRIC PLAN

DRB FINAL

ENG. OF RECORD: ANY LUMINAIRES SHOWN

TITLE: ENGINEER

ENGINEER No.: 73735

DRAWN BY: LPD

CHECKED BY: DEU

SCALE: As Noted

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OF: 7

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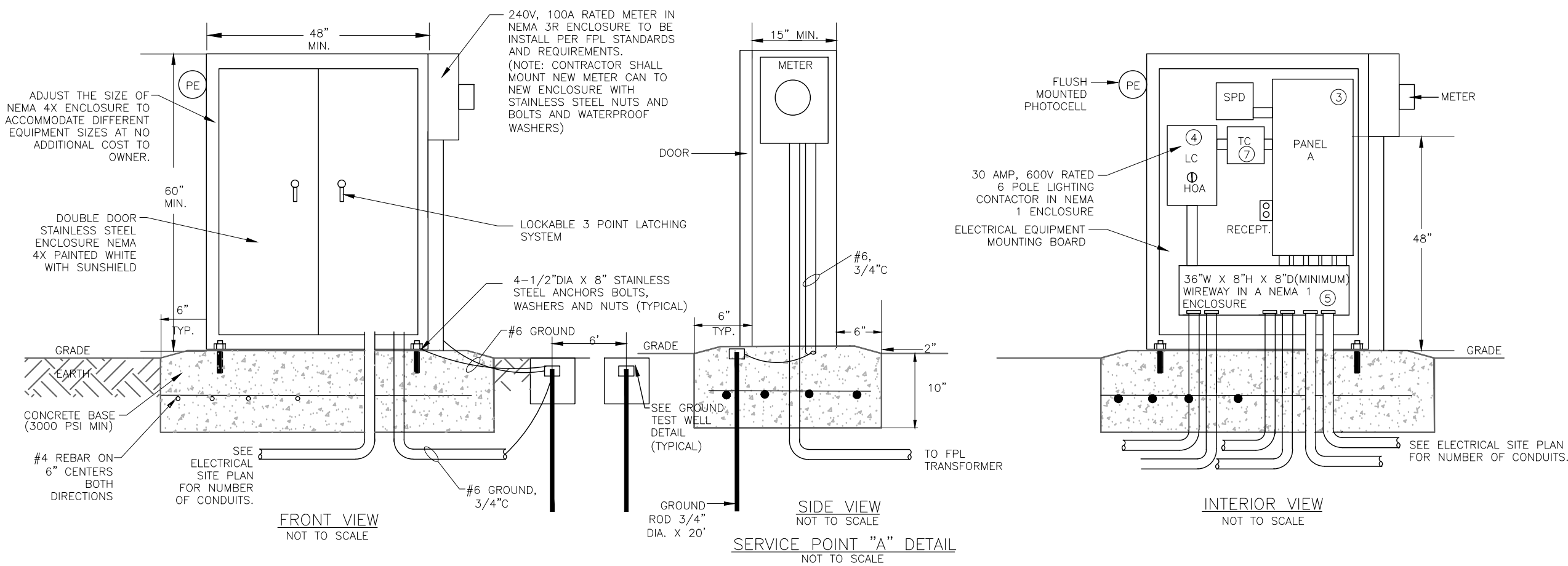
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MIAMI BEACH

CAPITAL IMPROVEMENT PROJECTS

CITY MANAGER: JIMMY L. MORALES

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NEIGHBORHOOD:

BISCAYNE BEACH

TITLE:

ELECTRICAL RISER DIAGRAMS AND
PANEL SCHEDULES

DRB FINAL

ENG. OF RECORD: ~~ANY LICENSED ENGINEER~~

TITLE: ENGINEER

ENGINEER No.: 73736

DRAWN BY: LPD

CHECKED BY: DEU

SCALE: As Noted

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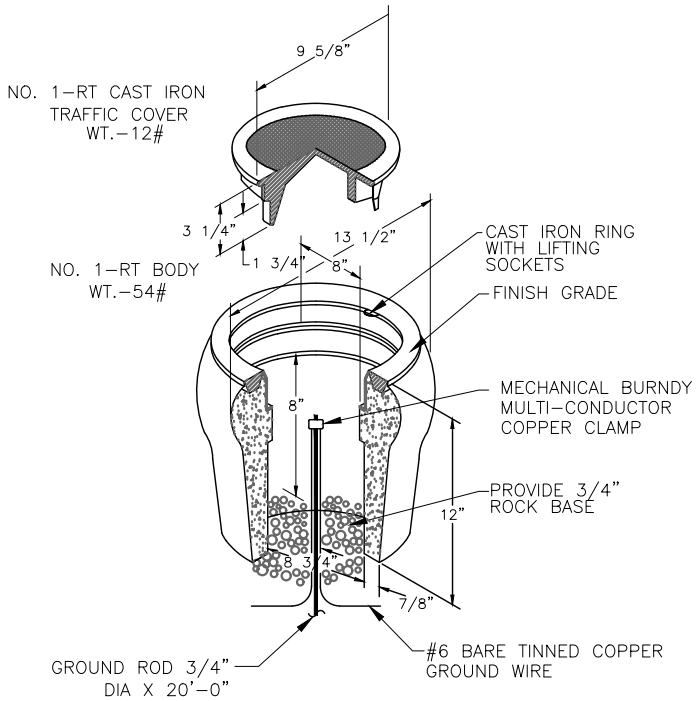
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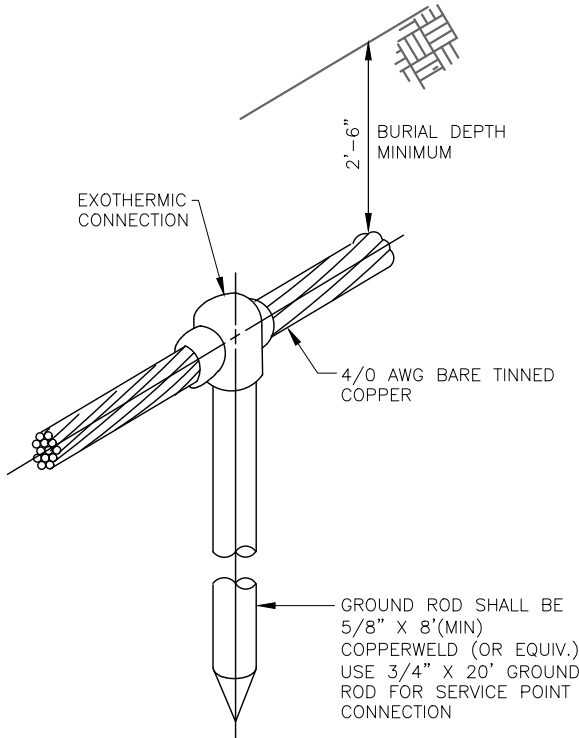
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GROUND TESTED WELL DETAIL
NOT TO SCALE



GROUND ROD DETAIL
NOT TO SCALE

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MIAMI BEACH
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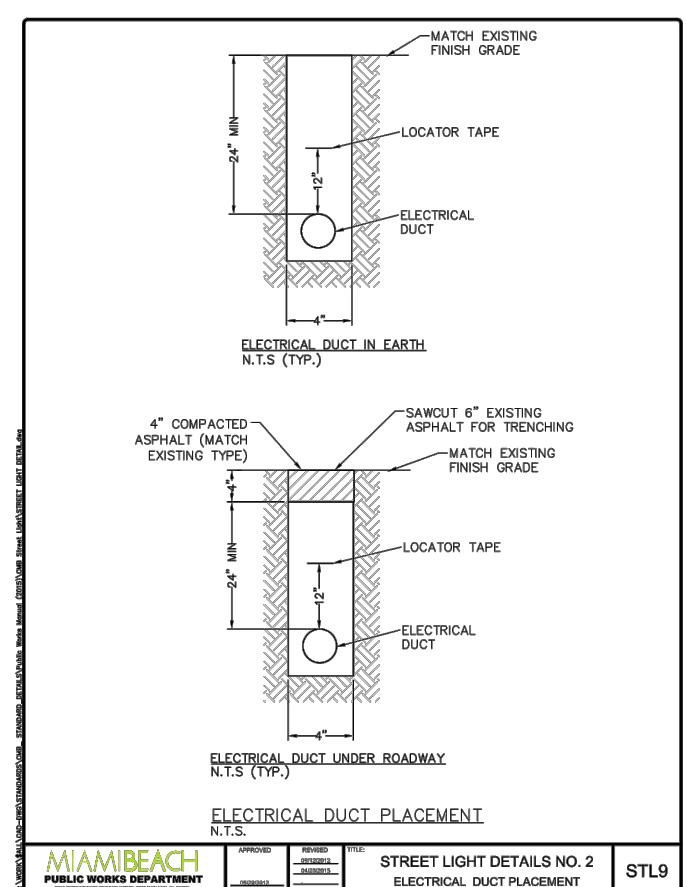
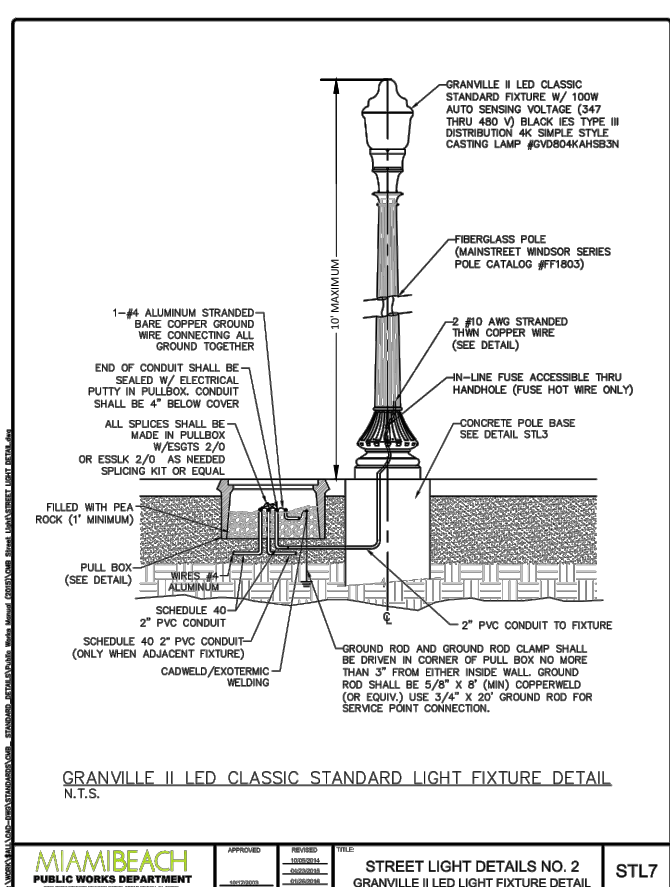
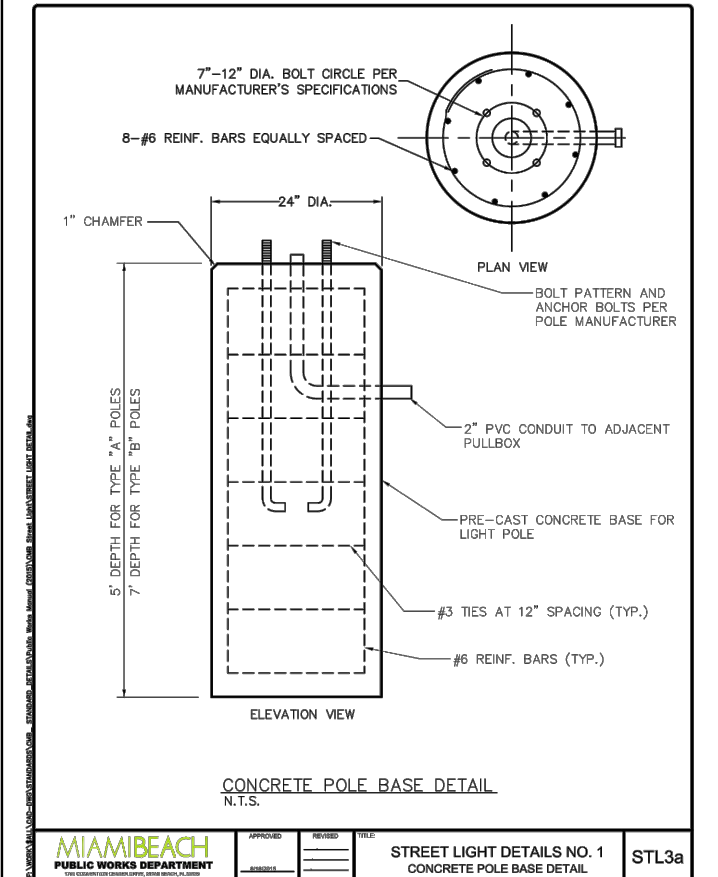
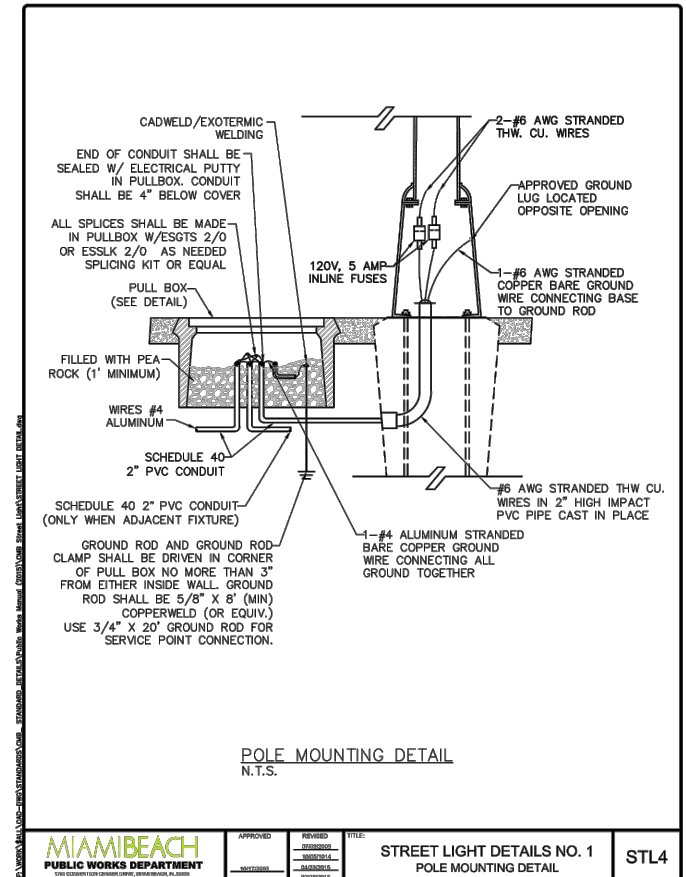
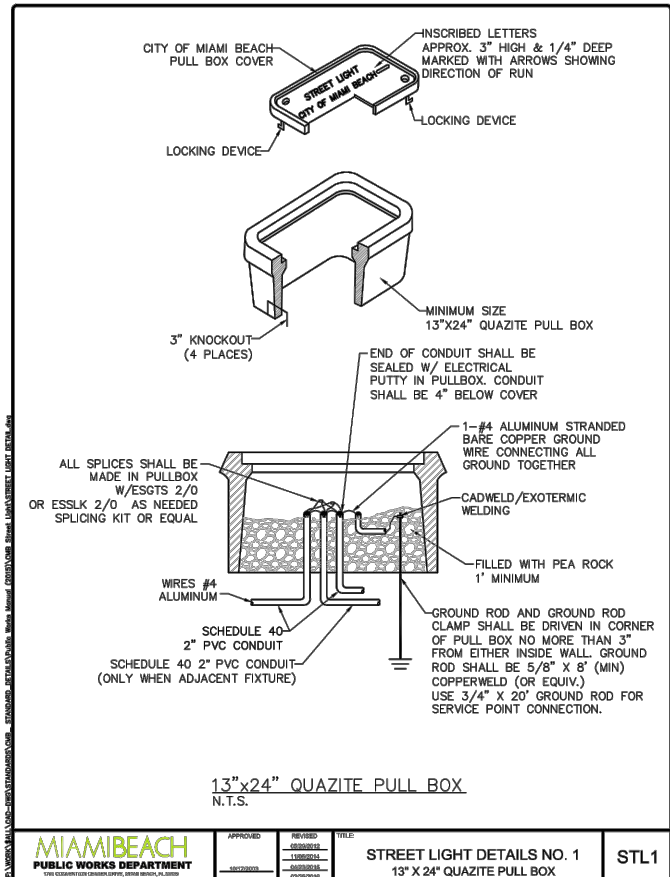
NEIGHBORHOOD: BISCAYNE BEACH

TITLE: ELECTRICAL DETAILS

DRB FINAL

ENG. OF RECORD: ANY LICENSED ENGINEER
TITLE: ENGINEER
ENGINEER No.: 73736
DRAWN BY: LPD
CHECKED BY: DEU
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MIAMI BEACH

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CITY ENGINEER: LUIS SOTO, P.E.

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NEIGHBORHOOD:

BISCAYNE BEACH

TITLE:

ELECTRICAL DETAILS

DRB FINAL

ENG. OF RECORD: [Signature]

TITLE: ENGINEER

ENGINEER No.: 73736

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