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EXISTING CONDITIONS
PROPOSED CONDITION
DREDGE & FILL
STORMWATER DRAINAGE PLAN
BOARDWALK GRADING PLAN
SECTION A & B
SECTION C
SECTION D
SECTION E
SECTION F
SECTION G
STORMWATER DETAILS
STORMWATER DETAILS
EROSION CONTROL DETAILS
CITY STANDARD DETAILS
DEMOLITION NOTES - SHEET 1
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GENERAL NOTES
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EROSION CONTROL NOTES - SHEET 2
EROSION CONTROL NOTES - SHEET 3
STRUCTURAL
STRUCTURAL NOTES
PARTIAL MAIN DECK LAYOUT PLAN - AREA 'A'
PARTIAL MAIN DECK LAYOUT PLAN - AREA 'B'
SECTIONS AND DETAILS
3D VIEWS



CITY OF FORT LAUDERDALE

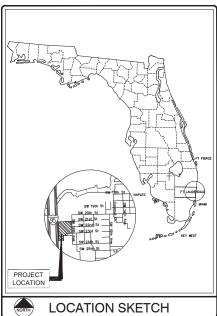
PROJECT #11419 STORMWATER IMPROVEMENTS RIVER OAKS STORMWATER PRESERVE

FORT LAUDERDALE, FLORIDA









PROJECT #11419 RIVER OAKS STORMWATER PRESERVE

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

FORT LAUDERDALE CITY COMMISSION

JOHN P. 'JACK' SEILER MAYOR
BRUCE G. ROBERTS COMMISSIONER - DISTRICT I
DEAN J. 'TRANT'ALIS COMMISSIONER - DISTRICT II
ROBERT L. McKINZIE COMMISSIONER - DISTRICT III
ROMNEY ROGERS COMMISSIONER - DISTRICT III

PROJECT MANAGER JOB TITLE PHONE NO.
PATRICK J. GIBNEY, P.E. VICE PRESIDENT ENGINEERING 954-739-6400

DATE: 01/10/2019
CAD FILE: 11419-COVER
DRAWING FILE No: 4-135-81

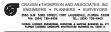
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CAM #19-1115 Exhibit 3D - Part 4 of 6 Page 1 of 70

GENERAL NOTES:

- 1. CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY AT ALL TIMES.
- REFER TO SPECIFICATION SECTION 01001 AND 01520 FOR DETAILED REQUIREMENTS FOR SEQUENCE OF CONSTRUCTION AND CONSTRUCTION CONSTRAINTS.
- 3. SITE INFORMATION HAS BEEN PROVIDED BY SITE SURVEY PREPARED CRAVEN THOMPSON &
- HORIZONTAL CONTROL IS REFERENCED TO THE FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE, BASED ON THE NORTH AMERICAN DATUM OF 1983 (NAD 83). VERTICAL CONTROL IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
- RECORD DRAWINGS USED FOR EXISTING FEATURES: XXXXX. RECORD DRAWINGS MAY BE OBTAINED FROM THE OWNER UPON REQUEST.
- CONTRACTOR SHALL VERIFY FIELD CONDITIONS BEFORE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL VERIFY EXISTING ELEVATIONS AND DIMENSIONS WHERE NEW WORK WILL MATCH EXISTING, DISCEPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION PRIOR TO THE COMMENCEMENT OF
- CONTRACTOR SHALL OBTAIN ALL THE NECESSARY PERMITS FROM THE APPROPRIATE AUTHORITIES, DEPARTMENTS, AND/OR AGENCIES HAVING JURISDICTION PRIOR TO COMMERCING WORK.
- ALL PRACTICAL AND NECESSARY EFFORTS SHALL BE TAKEN DURING CONSTRUCTION TO PREVENT UNNECESSARY TREE REMOVAL AND/OR DAMAGE.
- THE LOCATION OF EXISTING UTILITIES HAS BEEN PREPARED FROM THE MOST RELABLE INFORMATION AVAILABLE TO THE ENGINEER. THE INFORMATION IS NOT GUARANTEED. THEREFORE THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES IN THE FIELD PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITIES.
- 10. UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEY INFORMATION, IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THEIR EXACT LOCATION AND TO AVOID DAMAGE TO THEM. THE CONTRACTOR SHALL CONTACT SUNSHINE 811 AT PHONE NUMBER 811 OR 1-800-432-4770 TO REQUEST UNDERGROUND UTILITY LOCATION MARK-OUT AT LEAST 1-800-452-47/0 request owner-wound into tocation mark-out it least two (2) working days but no more than ten (10) working days prior to BEGINNING EXCAVATION, INCLUDING SOIL DRILLING, THE CONTRACTOR SHALL ALSO CONTACT AND REQUEST UTILITY LOCATION MARK-OUT FROM BURIED UTILITY OWNERS WITH UTILITIES ON THE PROJECT SITE THAT ARE NOT PARTICIPANTS OF SUNSHINE 811.
- 11. CONTRACTOR SHALL REPLACE SURROUNDING LAND COVER AFFECTED BY CONSTRUCTION ACTIVITIES, INCLUDING, BUT NOT LIMITED TO, PAVERS, SIDEWALK, SOD, AND LANDSCAPING, TO EXISTING OR BETTER CONDITIONS.
- 12. CONTRACTOR SHALL TAKE CARE TO AVOID DAMAGE TO EXISTING PAVEMENT, STRUCTURES, AND UTILITIES THAT ARE NOT INDICATED TO BE DEMOLISHED OR REMOVED. ANY DAMAGE TO EXISTING PAVEMENT, STRUCTURES, AND UTILIES NOT INDICATED TO BE DEMOLISHED OR REMOVED SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- 13. WHERE PROPOSED WORK IS IN THE VICINITY OF UTILITY POLES, SUCH THAT SUPPORT OF THE POLE(S) WILL BE REQUIRED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE UTILITY OF THE WORK. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE UTILITY FOR SUPPORT OF THE POLE.
- 14. DURING EXCAVATION AND PLACEMENT OF UTILITIES THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE SAFETY REGULATIONS AND SHALL SUBMIT TO THE ENGINEER FOR APPROVAL SHEET PILING, SHORING AND/OR BRACING DESIGNS AS MAY BE NECESSARY TO COMPLY WITH THESE REGULATIONS.
- 15. GROUNDWATER FROM ALL DEWATERING OPERATIONS SHALL BE DISCHARGED TO AN ENVIRONMENTALIY ACCEPTABLE LOCATION IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, OR AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL DEBRIS GENERATED DURING THE PROJECT OFF SITE AT A PROPERLY PERMITTED DISPOSAL FACILITY.
- 17. FOR REFERENCE MONUMENTS, SEE SURVEY DRAWING.
- THE CONTRACTOR IS REQUIRED TO OBTAIN WRITTEN APPROVAL FROM THE ENGINEER FOR ANY DEVIATIONS FROM THE PLANS AND/OR SPECIFICATIONS.
- 19. THE UNDERGROUND CONTRACTOR SHALL MINIMIZE THE WORK AREA AND WIDTH OF TRENCHES TO AVOID DISTURBANCES OF NATURAL VEGETATION. SPOIL FROM TRENCHES SHALL BE "PLACED ONLY ON PREVIOUSLY CLEARED AREAS, ESTING RIGHT—OF—MAY OR APPROVED EASEMENT. THE CONTRACTOR SHALL NOT REMOVE OR DISTURB ANY TREES OR SHRUBS WITHOUT PRICIA PROVIAL FROM THE ENDINCER.
- ALL RESTORATION SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE AGENCIES HAVING JURISDICTION OVER THE RIGHT-OF-WAY WHERE THE PROJECT IS CONSTRUCTED.
- ALL LOOP DETECTORS, COMMUNICATION CABLES AND CONDUITS, IF DAMAGED BY THE CONTRACTOR'S ACTIVITIES, SHALL BE REPAIRED AND/OR REPLACED IN ACCORDANCE WITH BCTED AND FOOT REQUIREMENTS.
- 22. PIPING, FITTINGS, AND APPURTENANCES FOR DUCTILE IRON PIPE SHALL BE RESTRAINED JOINT WHERE SHOWN ON THE PLANS OR AS OTHERWISE SPECIFICALLY SPECIFIED IN THE CONTRACT DRAWINGS.
- 23. RESILIENT SEATED GATE VALVES WITH BEVEL TYPE GEAR SHALL BE INSTALLED IN HORIZONTAL ORIENTATION WHEN LESS THAN 7-FEET OF COVER FROM TOP OF PIPE IS PRESENT OR AS OTHERWISE SPECIFICALLY SPECIFIED IN THE CONTRACT DRAWINGS.

- 24. NO CONNECTIONS FOR THE PURPOSE OF OBTAINING WATER SUPPLY DURING CONSTRUCTION SHALL BE MADE TO ANY FIRE HYDRANT OR BIOW-OFF STRUCTURE WITHOUT FIRST OBTAINING PERMISSION AND A CONSTRUCTION METER FROM THE CITY OF FORT LAUDERDALE.
- 25. THE CONTRACTOR WILL BE RESPONSIBLE FOR LOCATING, MOVING AND RELOCATING OR REPLACING ALL WATER SERVICES OR SEWER LATERALS WHICH ARE ENCOUNTERED DURING EXCANATION. THE CONTRACTOR SHALL SUBMIT A WRITTEN PLAN FOR WATER SERVICE AND WASTEWATER SERVICE DISRUPTION FOR APPROVAL 7 (SEVEN) CALENDAR DAYS PRIOR THE ANTICIPATED DISRUPTION. THE CONTRACTOR SHALL NOTIFY THE PROPERTY OWNERS 48 HOURS IN ADVANCE OF ANY WORK ON THEIR SERVICES. THIS WORK SHALL BE CONSIDERED INCIDENTAL.
- 26. THE CONTRACTOR MUST INFORM THE CITY AT LEAST 48—HOURS IN ADVANCE OF CONSTRUCTION, IN WRITING IF ANY CONFLICT IS DISCOVERED DURING POT HOLE OPERATIONS FOR CARRIFICATION BY THE CITY.
- 27. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE UTILITIES DEPARTMENT OF THE CITY OF FORT LAUDERDALE AT LEAST TWO (2) BUSINESS DAYS IN ADVANCE TO COORDINATE ANY ACTIVITY TO BE PERFORMED BY THE CITY'S UTILITIES DEPARTMENT.
- 28. CONTRACTOR SHALL NOT DISTURB AREAS OUTSIDE EXISTING RIGHTS-OF-WAY.
- ALL WORK WITHIN STATE DEPARTMENT OF TRANSPORTATION (FDOT) RIGHT-OF-WAYS SHALL BE IN CONFORMANCE WITH FDOT SPECIFICATIONS AND PERMIT REQUIREMENTS.
- ALL WORK WITHIN BROWARD COUNTY RIGHT-OF-WAYS SHALL BE IN CONFORMANCE WITH THE BROWARD COUNTY MINIMUM STANDARDS AND/OR REQUIREMENTS.
- 31. CONTRACTOR SHALL COMPLY WITH ALL LOCAL CITY, COUNTY AND STATE REGULATIONS PERTAINING TO THE CLOSING OF PUBLIC STREETS FOR USE OF TRAFFIC DURING CONSTRUCTION.
- 32. CONTRACTOR SHALL PREPARE AND SUBMIT MAINTENANCE OF TRAFFIC (MOT) PLANS TO FOOT, CITY OF FORT LAUDERDALE, BROWARD COUNTY AS REQUIRED FOR WORK TO BE DONE WITHIN THEIR R/W PRIOR TO COMMENCEMENT OF WORK, SPECIFIC AGENCY MOT REQUIREMENTS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 33. STATIONS SHOWN ON THE DRAWINGS ARE BASED ON THE ESTABLISHED BASELINE AND SHALL NOT BE CONSIDERED AS DISTANCES OR AS A MEASURE OF THE LINEAR FOOTAGE OF PIPE TO BE INSTALLED.
- 34. THE GENERAL INTENT IS TO PROVIDE SEWER SERVICE LATERALS FOR EACH PROPERTY. ALL LATERAL LOCATIONS SHALL BE FIELD ADJUSTED.
- 35. ALL OPEN TRENCHES AND HOLES ADJACENT TO ROADWAY OR WALKWAY SHALL BE PROPERLY MARKED AND BARRICADED TO ASSURE THE SAFETY OF BOTH VEHICULAR AND PEDESTRIAN TRAFFIC.
- 36. TRENCHES OR HOLES NEAR WALKWAYS, IN ROADWAYS OR THEIR SHOULDERS SHALL NOT BE LEFT OPEN DURING NIGHT TIME HOURS WITHOUT ADEQUATE PROTECTION.
- CONTRACTOR SHALL PROMPTLY REPAIR AND RESTORE EXISTING PAYEMENT, SIDEMALKS, CURBS, DRIVEWAYS, PIPES, RESIDENTIAL AND COMMERCIAL SPRINKLER LINES, CONDUIT, CABLES, ETC. AND LANDSCAPE AREAS DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES.
- 38. CONTRACTOR SHALL PROVIDE TEMPORARY FENCING AS REQUIRED BY AGENCIES HAVING
- 39. THE CONTRACTOR SHALL BE RESPONSIBLE AT ALL TIMES THROUGHOUT THE DURATION OF CONSTRUCTION AND UNTIL ACCEPTANCE OF WORK, FOR THE PROTECTION OF EXISTING AND NEWY INSTALLE UTILITIES FROM DAMAGE OR DISRUPTION OF SERVICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING SUCH MEASURES AS NECESSARY TO PROTECT THE HEALTH, SAFEY AND WELFARE OF THOSE PERSONS HANING ACCESS TO THE WORK SITE.
- 40. LOCATION OF AIR RELEASE VALVES MAY BE FIELD ADJUSTED BY THE ENGINEER OR CITY OF FORT LAUDERDALE AS NECESSARY.
- 41. CONTRACTOR SHALL ADJUST TO GRADE ALL EXISTING UTILITY CASTINGS INCLUDING VALVE BOXES, MANHOLES, HAND HOLES, PULL BOXES, INLETS AND SIMILAR STRUCTURES IN CONSTRUCTION AREA TO BE OVERTADE WITH ASPHALT.
- 42. EXISTING TRAFFIC SIGNS SHALL BE RESET UPON COMPLETION PER BROWARD COUNTY TRAFFIC ENGINEERING STANDARDS. COST SHALL BE CONSIGERED INCIDENTAL CONTRACTOR SHALL REPEAR OR REPLACE DAMAGED TRAFFIC SIGNAL LOOPS PER BROWARD COUNTY TRAFFIC ENGINEERING SPECIFICATIONS; COST SHALL BE INCIDENTAL.
- 43. CONTRACTOR SHALL RESTORE EXISTING PAVEMENT AND PAVEMENT MARKINGS/SIGNAGE TO ORIGINAL PRE-CONSTRUCTION CONDITION OR AS OTHERWISE SPECIFIED IN CONTRACT DOCUMENTS. THIS WORK SHALL BE CONSIDERED INCIDENTIAL.
- 44. ALL CONSTRUCTION WITHIN FDOT R/W MUST CONFORM WITH FDOT SPECIFICATIONS, STANDARDS, AND PERMIT REQUIREMENTS. NO WORK SHALL COMMENCE WITHIN FDOT R/W*. WITHOUT AN FDOT PERMIT. FULL LANE WIDTH RESTORATION TO MATCH EXISTING PAVEMENT SECTION IS REQUIRED IN ACCORDANCE WITH FDOT STANDARDS FOR PROPOSED WORK



WARRY, SHOW HEREON IS THE PROPERTY OF CHARLE-HOLDERING & ASSOCIATES, INC. HIS STALL HOT BE REPRODUCED IN SHOULD IN HAIR WINDOW, PRINCESSION OF CHARDS-THOSPOON & ASSOCIATES, INC. HISTORY CHARLE & EXEMPTION & ASSOCIATION DESCRIPTION OF CHARLES ASSOCIATED.



Environmental Consultants
 Marina & Wetland
 Permitting
 Mitigation Design &
 Maniferina



ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 1988





FORT LAUDERDALE CITY OF FORT L.
PUBLIC WORKS D
ENGINEERING & A

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PRESERVE TES 11419 PROJECT # 114 RIVER OAKS STORMWATER P GENERAL NOTE

SHEET NO. G-02

TOTAL: CAD FILE: 11419-004-SIT DRAWING FILE NO. 5 4-135-81

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GENERAL NOTES:

- THIS SURVEY DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF THE CITY OF FORT LAUDERDALE, FLORIDA, AND HAZEN AND SAWYER, INC. FOR THE EXPRESS PURPOSE STATED HEREON AS RELATED TO OUR CONTRACT.
- THE PURPOSE OF THIS SUPLY WAS TO ESTABLISH HORIZONTAL AND VERTICAL CONTROL AND CULECT AGONE GROUND AND VISBLE MAPPOVEMENTS WITHIN AND ALLON THE RIGHTS-OF-WAYS DELINEATED HEREON WITHIN THE PROJECT LIMITS. THE MAPPOVEMENT ALSO INCLUDED INFORMATION RISDE OF THE STORM WATER, AND SMAYLAR, EXEMP STRUCTURES, IF ACCESSIBLE, SUCH AS, MOTORIS,
- 3. THE EXPECTED USE OF THIS SURVEY AND MAP IS FOR COMMERCIAL/HIGH RISK, THEREFORE THIS SURVEY IS CLASSIFIED AS COMMERCIAL/HIGH RISK LINEAR AND EXCEEDS THE MINIMUM RELATIVE DISTANCE ACCURACY OF 1 FOOT IN 10,000 FEET AS REQUIRED BY THE FLORIDA STANDARDS OF PRACTICE (5J-17, F.A.C.).
- 4. THE ELEVATIONS SHOWN HEREON ARE RELATIVE TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) AND ARE BASED ON THE FOLLOWING BENCHMARKS:

(A) FLORIDA DEPARTMENT OF TRANSPORTATION STATE ROAD 84 BENCHMARK C4 ELEVATION = 5.276° (NAVDB8) STAMPED 84-86-04-04 FROM FDOT PROJECT NETWORK CONTROL SPECIFIC PURPOSE SURVEY = FINANCIAL PROJECT NO 228243-1-32-01.

(8) FLORIDA DEPARTMENT OF TRANSPORTATION STATE ROAD 84 BENCHMARK C6 ELEVATION = 6.573' (NAVDBB) STAMPED 84-86-04-66 FROM FDOT PROJECT NETWORK CONTROL SPECIFIC PURPOSE SURVEY - INHANCIBL PROJECT NO 228245-1-32-01.

- 5. THIS PROJECT WAS PERFORMED IN THE FIELD DURING THE MOTHO OF COTOBER, 2017 USING INFORMATION FROM A PREVIOUS SUPERCY NUMBER CRAVEN THOMPSON & ASSOCIATES, INC. COSCIPP, PROJECT NUMBER IG-0042-001-01 AND AN EXTENSIVE FIELD SURVEY OF THE SITE AND THE SURROLUNION FROUNDING THIN THE FOLLOWING BROWARD COUNTY RECORDED PLATS:

 - SURROLUDING ROADWAYS WITHIN THE FOLLOWING BROWARD COUNTY RECORDED A: PLAT BOOK 9, PAGE 46 "OSSCOLA PARK".

 B: PLAT BOOK 22, PAGE 34 "OSSCOLAP PARK".

 D: PLAT BOOK 127, PAGE 33 "OSSCOLA PARK APARTMENTS"

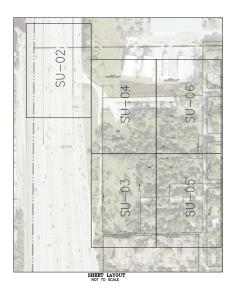
 E: PLAT BOOK 127, PAGE 33 "OSSCOLA PARK APARTMENTS"

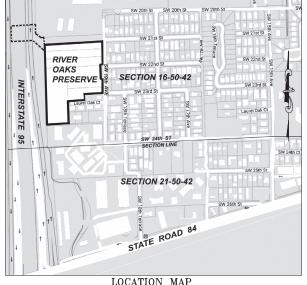
 F: PLAT BOOK 155, PAGE 35 "THE R.B.F. PLAT BOOK 155, PAGE 35 "THE R.B.F. PLAT BOOK 175, PAGE 177 "PEGRGAN OWNS"

 F: PLAT BOOK 175, PAGE 175 "AUDERDALE MARINE CENTER"

 H: PLAT BOOK 176, PAGE 175 "AUDERDALE MARINE CENTER PLAT NO II"

 F: PLAT BOOK 177, PAGE 78 "RO OCCION"
- 6. THE COORDINATES SHOWN HEREON ARE RELATIVE TO STATE FLAME, FLORIDA ENST ZONE, MADES (00), UNITS U.S. SUNYEY FEET, AND ASSED ON REAL TIME AVENDATION (FITS) OPE UITZURGN THE TRIBLE STATE—WIDE VRS NETWORK, AND ADJUSTED TO A STATIC OPS CONTROL NETWORK CTA PERFORMED FOR THE CITY OF FORT LUDGERDALE IN 2016.
- SECTIONAL INFORMATION AND RIGHT-OF-WAY LINES SHOWN HEREON ARE BASED ON THE RECORDED PLATS AND FLORIDA DEPARTMENT OF TRANSPORTATION RIGHT-OF-WAY MAPS AND PROJECT CONTROL NETWORKS.
- 8. CTA FIELD BOOK REFERENCES: FIELD BOOK (FB) 2859, PAGES 44-79 & FB 2860 PAGES 19-39
- 9. ALL PLATS SHOWN HEREON REFER TO RECORDED PLATS IN BROWARD COUNTY.
- 10. NO TITLE DOCUMENTS WERE SUPPLIED TO THE SURVEYOR FOR REVIEW.





LOCATION MAP

CONTROL LEGEND:

IRON PIPE IRON ROD

PKNAIL.SPIKE

ABBREVIATION LEGEND:

CMP

FND FOUND

HDPE

I.E.

SAN

B.C.R BROWARD COUNTY RECORDS

INVERT ELEVATION

POLYVINYL CHLORIDE

RIM ELEVATION

RIGHT OF WAY

RIM ELEVATION

TREE

MANHOLE

PLAT BOOK

PAGE

CORRUGATED METAL PIPE

HIGH DENSITY POLYETHYLENE

PERMANENT REFERENCE MONUMENT

PERMANENT REFERENCE MONUMENT

PORTION OF SECTION 16 & 21, TOWNSHIP 50 SOUTH, RANGE 42 EAST NOT TO SCALE

LEGEND: ANCHOR BACK FLOW PREVENTER BULL VBD CATV PEDESTAL CATCH BASIN ELECTRICAL PULL BOX FIRE HYDRANT MAILBOX OUTFALL PLUG SANITARY CLEAN OUT SANITARY MANHOLE S SIGN STEEL I-BEAM TELEPHONE PEDESTAL WATER METER WATER VALVE WOOD POST WOOD LIGHT POLE WOOD TELEPHONE POLE PALM TREE SHADE TREE PINE TREE OVER HEAD WIRES TOE OF SLOPE LIMITED ACCESS R/W LINE

DESCRIPTION: PROVIDED BY CLIENT

A PORTION OF THE SOUTHWEST ONE-QUARTER (SW %) OF SECTION 16, TOWNSHIP 50 SOUTH, RANGE 42 EAST, BROWARD COUNTY, FLORIDA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

THE SOUTH 72.365 FEET OF THE FOLLOWING DESCRIBED PARCEL:

THAT PORTION OF THE WEST HALF OF THE SOUTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER AND THE WEST ONE-HALF OF THE EAST ONE-HALF OF THE SOUTHWEST ONE-QUARTER OF SECTION IN, TOMENHE SOUTH, RANGE ONE-COLARTER OF SECTION IN, TOMENHE SOUTH, RANGE OF THE SOUTHWEST ONE-COLARTER OF SECTION IN, TOWENHE SOUTH, COLARD ONE-COLARTER OF SECTION IN, TOWENHE SOUTH OF A LINE THAT IS 1123.70 FEET NORTH OF AND PARALLE IO THE SAUD SOUTH BOUNDS OF SAUD SECTION IS, EXCEPTING THEEREFOR THE WEST SOUTH BOUNDS OF SAUD SECTION IS, EXCEPTING THEEREFOR THE WEST SOUTH BOOD FEET OF THE WEST SOUTH BOOD FEET OF THE MOVE DESCRIBED PARCEL, SAID EXCEPTING THEEREFOR THE WEST SOUTH BOOD FEET OF THE ABOVE DESCRIBED FARCEL SAID LANDS STITALE, LINES AND BEING NOW THE SOUTH SOUT

THE EAST 704.50 FEET OF THE SOUTH 80 FEET OF THE PORTION OF THE WEST ½ OF THE SOUTHWEST ¼ OF THE SOUTHWEST ¼ AND THE WEST ½ OF THE EAST ½ OF THE SOUTHWEST ¾ OF THE SOUTHWEST ¾ OF SECTION 16, TOWNSHIP 50 SOUTH, RANGE 42 EAST, VINK ONGTH OF A LINE WHICH IS 898.96 FEET MORTH OF AND PARALLEL TO THE SOUTH BOUNDARY OF SECTION (6, AND LYING SOUTH OF A LINE WHAT IS 123.70 FEET NORTH OF AND PARALLEL TO THE SOUTH BOUNDARY OF SECTION 16, AND LYING SOUTH OF A LINE THAT IS 123.70 FEET NORTH OF AND PARALLEL TO THE SAID 16, AND LYING SOUTH OF A LINE THAT SOUTH BOUNDARY OF SAID SECTION 16;

LESS AND EXCEPT THE LANDS LYING WITHIN THE BOUNDARIES OF INTERSTATE I-95.

SAID LANDS SITUATE, LYING AND BEING IN BROWARD COUNTY, FLORIDA

PARCEL III:

THE NORTH 90.00 FEET OF THE FOLLOWING TRACT:

THAT PORTION OF THE WEST 1/4 OF THE SOUTHWEST 1/4 AND THE WEST 1/2 OF THE EAST 1/2 OF HAI POKITON OF HE WEST & OF HE SOUTHWEST & AND HE WEST & OF HE EAST \$2.00 THE SOUTHWEST AND THE SOUTHWEST & THE SOUTHWEST & TO SECTION 16, TOWNSHIP 50 SOLUTH, RANGE & EAST, LYING NORTH OF A LINE WHICH IS 674.31 FEET NORTH OF AND PARALLEL TO THE SOUTH BOUNDARY OF SECTION 16, AND LYING SOUTH OF A LINE WHICH IS 898.89 FEET NORTH OF AND PARALLEL TO THE SOUTH BOUNDARY OF SAID SECTION 16, EXCEPTING THEREFEROW THAT PART THEREOF LYING WEST OF THE EAST RIGHT OF WAY LINE OF INTERSTATE HIGHWAY 95.

PARCEL IV:

PARCEL "A" OF THE R.B.F. PLAT, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 155, PAGE 35 OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA.

THE EAST 375 FEET OF THE FOLLOWING DESCRIBED PROPERTY:

THE WEST ¼ OF THE SOUTHWEST ¼ OF THE SOUTHWEST ¼ AND THE WEST ½ OF THE SOUTHWEST ¼ OF SECTION 16, TOWNSHE 50 SOUTH, RANGE 52 OF THE SOUTHWEST ¼ OF SECTION 16, TOWNSHE 50 SOUTH, RANGE 52 OF THE SOUTH 50 SOUTH, RANGE 52 OF THE SOUTH 50 SOU

THE EAST 375 FEET OF THE NORTH 139 FEET OF THE SOUTH 588 54 FEET OF THE WEST WOR THE SOUTHWEST ¼ OF THE SOUTHWEST ¼, LESS THE EAST 200 FEET OF THE SOUTH SELECT FIRE SOUTH SELECT FIRE SOUTH THE SOUTHWEST Å, LESS THE EAST 200 FEET OF THE SOUTH TO FEET OF THE S

SAID LANDS LYING AND BEING IN THE CITY OF FORT LAUDERDALE, BROWARD COUNTY, FLORIDA.

SURVEYOR'S CERTIFICATE:

I HEREBY CERTIFY THAT THIS TOPOGRAPHIC SURVEY AND OTHER PERTINENT DATA SHOWN HEREON, CONFORMS TO THE STANDARDS OF PRACTICE FOR LAND SURVEYING IN THE STATE OF FLORIDA, AS OUTLINED IN RULES 53-17, (FLORIDA ADMINISTRATIVE COCE) AS ADDOPTED BY THE DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES, BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN SEPTEMBER 1981, AS AMENDED, PURSUANT TO CHAPITE A YEAZOZ, FLORIDA STATUTES AND THAT SAID SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELLEF AS PREARED UNDER MY DIRECTION.

LAST DATE OF FIELD WORK; 11/21/2017

RICHARD D. PRYCE., FOR THE FIRM FLORIDA PROFESSIONAL SURVEYOR MAPPER NO 4038 CRAVEN THOMPSON & ASSOCIATES, INC. LICENSED BUSINESS NUMBER NO. 271

THIS SURVEY MAP AND REPORT OR COPIES THEREOF ARE NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RISED SEAL OR A UNIQUE ELECTRONIC SIGNATURE OF A FLORIDA LICENSED PROFESSIONAL SURVEYOR AND MAPPER UNDER CHAPTER RULES 5.1-17 FLORIDA ADMINISTRATIVE

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LAUDERDALE

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NO.

PROJECT # 11419
STORMWATER IMPROVEMENTS
RIVER OAKS PRESERVE SURVEY
SURVEY NOTES
BOUNDARY/TOPOGRAHIC SURVEY

SHEET NO.

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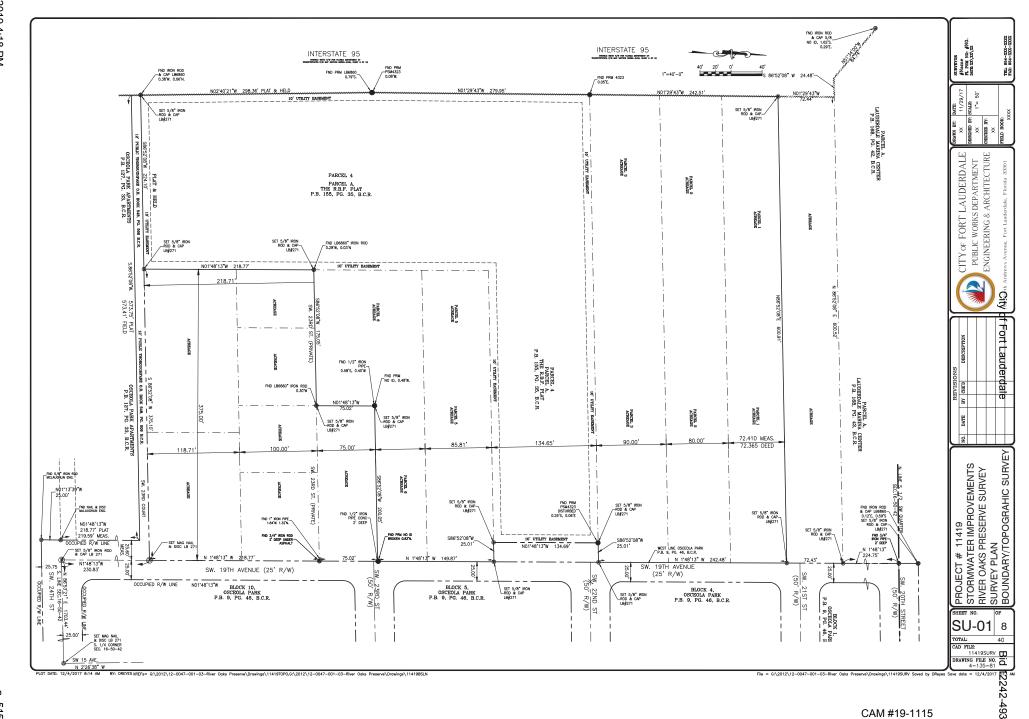
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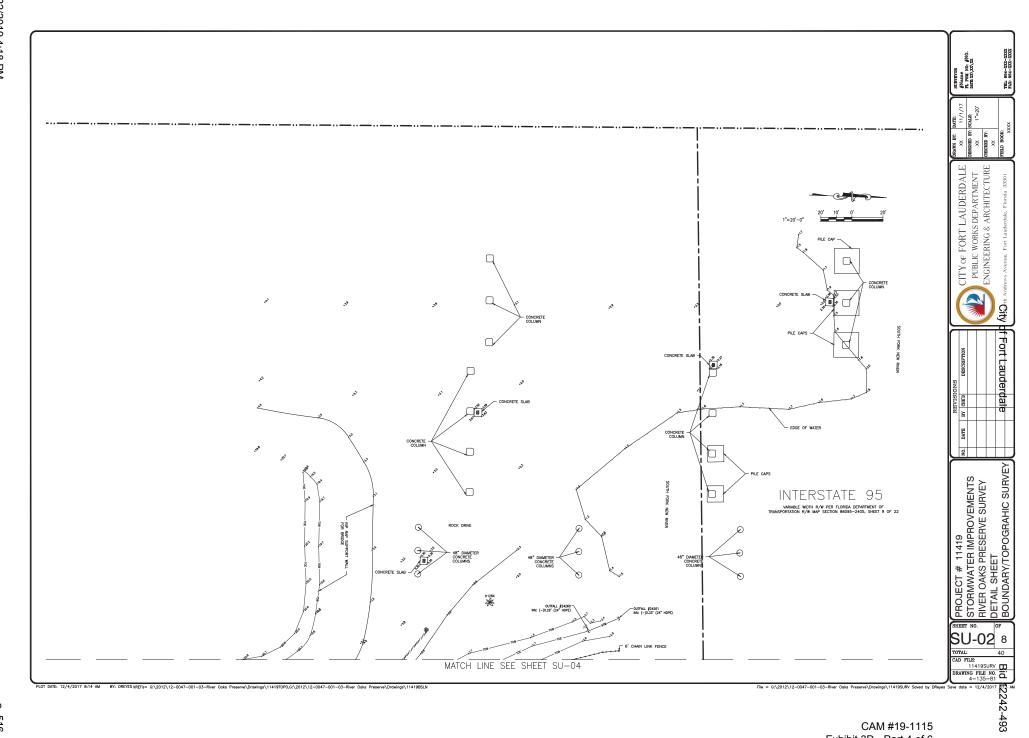
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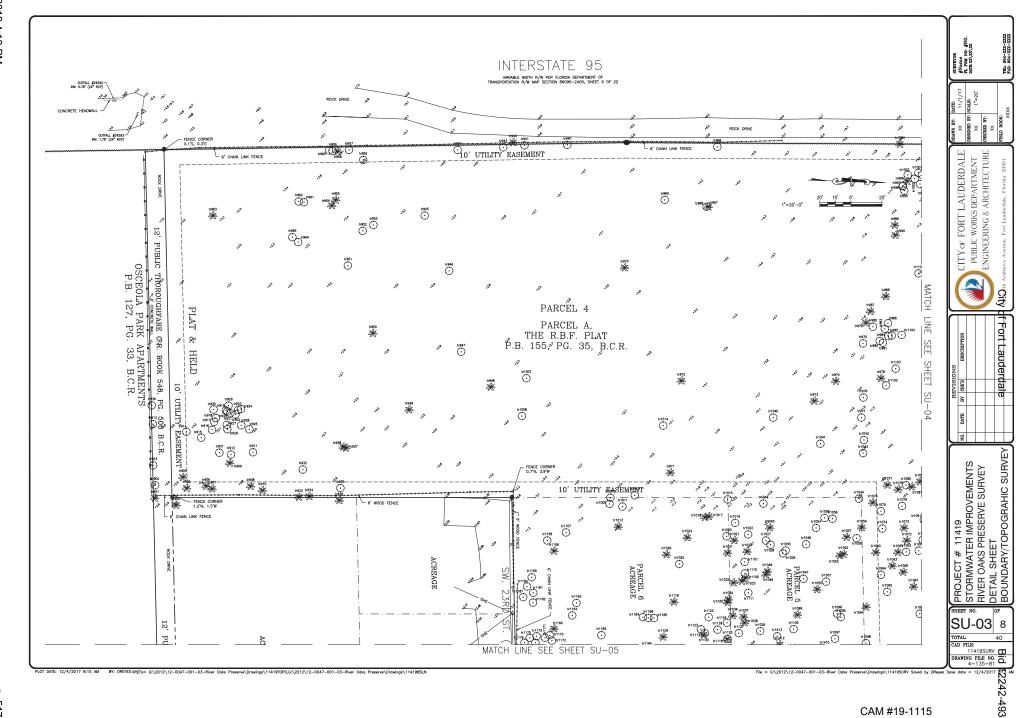
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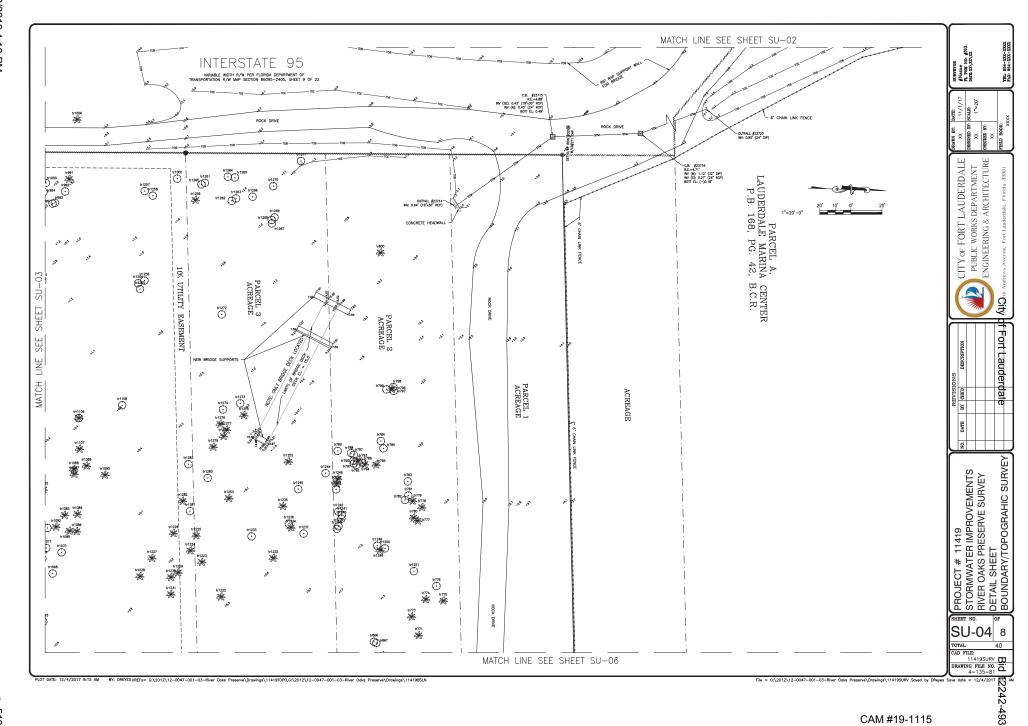
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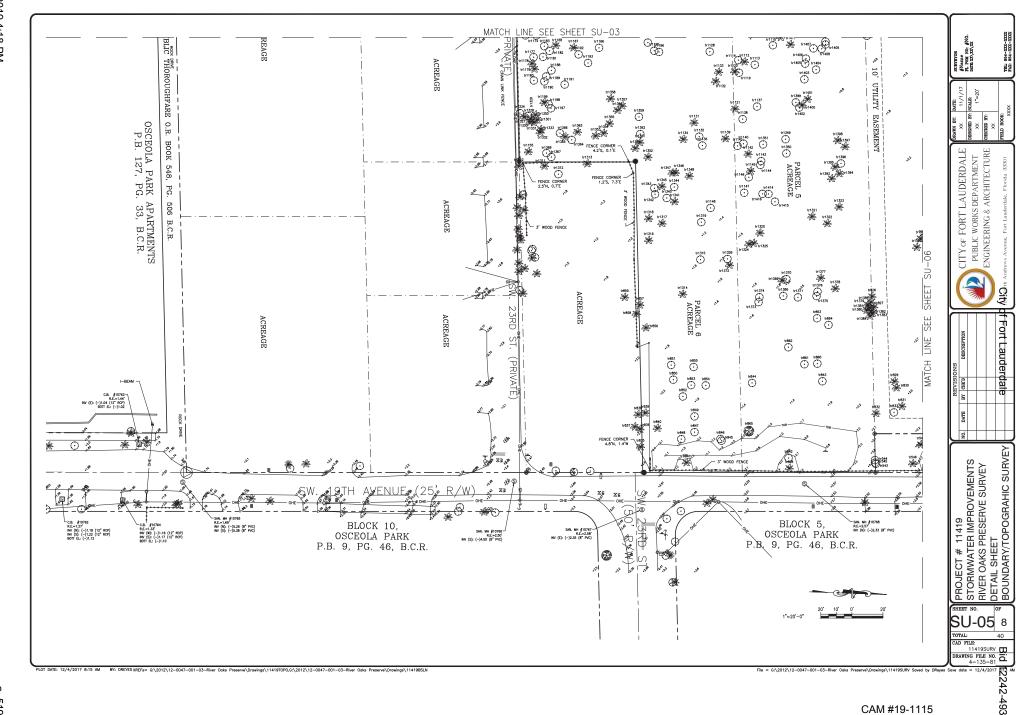
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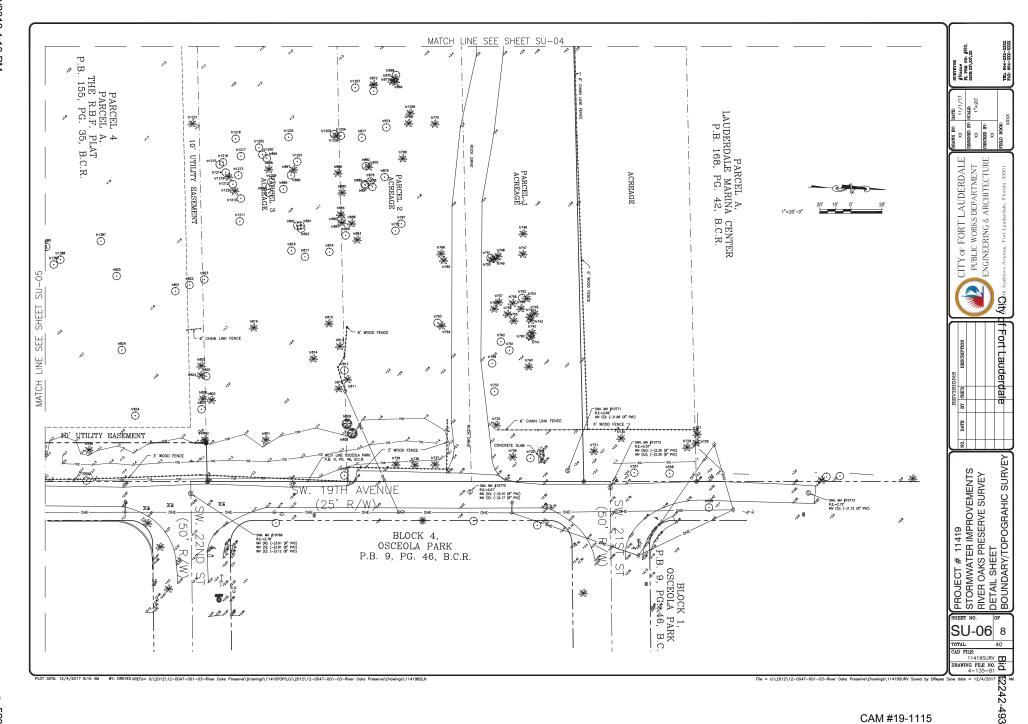












543 30" OAK	tr791	4" BISCHOFFIA	tr944	20" MAHOGANY	tr873	40" STRANGLER FIG	tr1247	15" ROYAL PALM BH=38"	tr1035 10* ROYAL PALM BH=20*	tr1109	12" ROYAL PALM BH=40'	tr1188	8" BISCHOFFIA	tr1376 12" SEA GRAPE
30° OAK	tr792	7" BISCHOFFIA	tr945	30" STRANGLER FIG	tr874	16" OAK	tr1248	15" ROYAL PALM BH=40'	tr1036 8" ROYAL PALM BH=20"	tr1110	8" POND APPLE	tr1189	8° BISCHOFFIA	tr1377 8* ROYAL PALM BH=25"
12" OAK	tr793	15" ROYAL PALM BH=38"	tr946	7" ACACIA (EAR LEAF)	tr875	16" ROYAL PALM BH=37"		14" BISCHOFFIA	tr1037 15" ROYAL PALM BH=30"			tr1190	8" BISCHOFFIA	tr1378 12" ROYAL PALM BH=35"
5 12" SABAL PALM BH=25"	tr794	11" BOYAL PALM BH=29"	tr947	7" ACACIA (EAR LEAF)		5" ROYAL POINCIANA		10* BISCHOFFIA	tr1038 18* ROYAL PALM BH=30'		8" ROYAL PALM BH=12"		6* POND APPLE	tr1379 12" CHINESE FAN PALM BH=3
7 11" SABAL PALM BH=25"	tr795	14" ROYAL PALM BH=33"	tr948	10" SABAL PALM BH=22"	_	7* BISCHOFFIA	tr1251	12" BISCHOFFIA	tr1039 6" POND APPLE	tr1113	18" POND APPLE	tr1192	6" POND APPLE	tr1380 10° CHINESE FAN PALM BH=3
18 11" SABAL PALM BH=25"	tr796	16" ROYAL PALM BH=27"	tr949	10" SABAL PALM BH=22"	tr878	18" BISCHOFFIA	tr966	10" MAHOGANY	tr1040 36" SEA GRAPE	tr1114		tr1193		tr1381 12" CHINESE FAN PALM BH-
	tr797	7" BISCHOFFIA	tr950	12" SABAL PALM BH=15"	tr879	11" BISCHOFFIA		18" SABAL PALM BH=14"	tr1041 15* SEA GRAPE	tr1115	8° BALD CYPRESS	tr1194		tr1382 12" CHINESE FAN PALM BH=
53 7* OAK	tr798	10° BISCHOFFIA	tr951	5" MAHOGANY	tr880	4" BISCHOFFIA		6" STRANGLER FIG	tr1042 12* OAK	tr1116	15" ROYAL PALM BH=45"	_	10" POND APPLE	tr1383 12" CHINESE FAN PALM BH-
57 8° PINK TABEBUIA	tr799	7" BISCHOFFIA	tr952	5" MAHOGANY		7* BISCHOFFIA		10" ACACIA (EAR LEAF)	tr1043 12* QAK				8" POND APPLE	tr1384 8* CHINESE FAN PALM BH=
58 3* PINK TABEBUIA	tr800	14" SABAL PALM BH=12'	tr953	4" MAHOGANY	tr882	7* BISCHOFFIA	tr970	18" SABAL PALM BH=5"	tr1044 18* QAK	tr1118	18" ROYAL PALM BH=40'	tr1197	12" BISCHOFFIA	tr1385 8* CHINESE FAN PALM BH=
27 7* ROYAL PALM BH=11'	tr801	14" ROYAL PALM BH=35'	tr954	20" SAW PALMETTO PALM BH=10'	tr883	3" ARECA BAMBOO PALM BH=17"	tr971	12" SABAL PALM BH=26'	tr1045 12" ROYAL PALM BH=45"	tr1119	15" POND APPLE	tr1198	8" BISCHOFFIA	tr1386 12* POND APPLE
28 10" COCONUT PALM BH=8'	tr802	18" ROYAL PALM BH=37"	tr955	20" SAW PALMETTO PALM BH=10"	tr884	3" ARECA BAMBOO PALM BH=17"	tr972	12" SABAL PALM BH=20'	tr1046 10" BALD CYPRESS	tr1120	18" ROYAL PALM BH=30"	tr1199	12" ROYAL PALM BH=15'	tr1387 6" CARROTWOOD
29 10" COCONUT PALM BH=19'	tr803	10" ROYAL PALM BH=18"	tr956	15* QAK	tr885	3" ARECA BAMBOO PALM BH=17"	tr973	18" SABAL PALM BH=8'	tr1047 8" POND APPLE		20" ROYAL PALM BH=40"	tr1300	18" ROYAL PALM BH=45"	tr1388 12" BISCHOFFIA
30 10" SABAL PALM BH=15"	tr804	16* ROYAL PALM BH=31'		8" CARROTWOOD		3" ARECA BAMBOO PALM BH=17"		18" SABAL PALM BH=8'	tr1048 8" SABAL PALM BH=6"		8* POND APPLE	_	15" ROYAL PALM BH=45"	tr1389 8° BISCHOFFIA
	tr805		tr958		tr887		tr975	60" STRANGLER FIG		tr1123		tr1311		tr1390 24° BISCHOFFIA
		15" SABAL PALM BH=6"		18" SAW PALMETTO PALM BH=3"		14" SABAL PALM BH=28"			tr1049 8" SABAL PALM BH=6"					
32 19" PALM BH=12"	tr820	24" OAK	tr959	12" MAHOGANY	tr888	11" SABAL PALM BH=25"	tr976	30" STRANGLER FIG	tr1050 18" ROYAL PALM BH=45"	tr1124	8" POND APPLE	tr1312		tr1391 4" ROYAL PALM BH=8"
33 18* OAK	tr806	14" SABAL PALM BH=9"	tr960	8" CARROTWOOD	tr889	20" BALD CYPRESS	tr977	84" STRANGLER FIG	tr1051 12* MAPLE	tr1125	6* POND APPLE	tr1313	18" ROYAL PALM BH=45"	tr1392 4* PALM BH=8*
34 10" QAK	tr807	40" STRANGLER FIG	tr961	9" ACACIA (EAR LEAF)	tr890	12" BISCHOFFIA	tr978	12" ROYAL PALM BH=30"	tr1052 12" ROYAL PALM BH=40"	tr1126	6* POND APPLE	tr1314	20° ROYAL PALM BH=40'	tr1393 12" ROYAL PALM BH=30"
35 15" OAK	tr808	12* MANGO	tr962	7" ACACIA (EAR LEAF)	tr891	8" BISCHOFFIA	tr979	18" SABAL PALM BH=5"	tr1053 12* ROYAL PALM BH=40*	tr1127	6* POND APPLE	tr1315	12" BALD CYPRESS	tr1394 18" ROYAL PALM BH=45"
36 3* ARECA BAMBOO PALM BH=10'	tr809	12* MANGO	tr963	18" SABAL PALM BH=6'		8" BISCHOFFIA		60" STRANGLER FIG	tr1054 12* POND APPLE		15" BISCHOFFIA		18" ROYAL PALM BH=45"	tr1395 20" ROYAL PALM BH=40"
37 18" ROYAL PALM BH=40"	tr810	11" SABAL PALM BH=23"	tr964	8" ACACIA (EAR LEAF)		6° BISCHOFFIA		18" STRANGLER FIG	tr1055 8" POND APPLE	tr1129	12" ROYAL PALM BH=40"	tr1317	20° ROYAL PALM BH=45°	tr1396 8* WILLOW
												0.10.1		
'38 20" ROYAL PALM BH=35'	tr811	12" PALM BH=12'		8" ACACIA (EAR LEAF)		22" BISCHOFFIA		8* BISCHOFFIA	tr1056 6" POND APPLE		10" SABAL PALM BH=10'		18" ROYAL PALM BH=38'	tr1397 8" ALEXANDER PALM BH=25"
39 20" ROYAL PALM BH=33"	tr812	42" OAK	tr821	34" OAK		10" BISCHOFFIA		8" BISCHOFFIA	tr1057 12" ROYAL PALM BH=20"	tr1131			12" POND APPLE	tr1398 8* ALEXANDER PALM BH=30*
40 8" CHINESE FAN PALM BH=11"	tr813	14" SABAL PALM BH=19"	tr822	15* OAK	tr896	14" CARROTWOOD	tr984	24" STRANGLER FIG	tr1058 6* POND APPLE	tr1132	12" ROYAL PALM BH=15"	tr1320	18" ROYAL PALM BH=45"	tr1253 15" ROYAL PALM BH=35"
41 12" SABAL PALM BH=9"	tr814	14" SABAL PALM BH=19"	tr823	24" QAK	tr897	20" ROYAL PALM BH=38"	tr985	10" BISCHOFFIA	tr1059 18" ROYAL PALM BH=35"	tr1133	8" ROYAL PALM BH=12"	tr1321	20" ROYAL PALM BH=45"	tr1252 13" ROYAL PALM BH=18"
42 14" ROYAL PALM BH=30"	tr815	12" COCONUT PALM BH=21"	tr824	30" OAK	tr898	17" ROYAL PALM BH=4"	tr986	10" BISCHOFFIA	tr1060 5" ROYAL PALM BH=8"	tr1134	18" ROYAL PALM BH=50"	tr1322	18" ROYAL PALM BH=35"	tr1254 8° POND APPLE
42 14 ROTAL PALM BH=30 43 12" SABAL PALM BH=26"	tr816	5° CARROTWOOD	tr825	4" RISCHOFFIA		14" CARROTWOOD		8* ROYAL PALM BH=18"	tr1061 12* ROYAL PALM BH=35*		30° POND APPLE		18" ROYAL PALM BH=30	tr1255 13" BISCHOFFIA
44 12" SABAL PALM BH=5"	tr817	54" UNKNOWN	tr826	12" ROYAL PALM BH=35"		14" CARROTWOOD		20" ROYAL PALM BH=40"	tr1062 8" POND APPLE		36* BISCHOFFIA		8" ALEXANDER PALM BH=30"	tr1256 8° BISCHOFFIA
745 14" SABAL PALM BH=30"	tr818	54" UNKNOWN	tr827	12" CHINESE FAN PALM BH=33"		13" BISCHOFFIA		40" ARECA BAMBOO PALM BH=10"	tr1063 15" ROYAL PALM BH=50"		6" POND APPLE		8" ALEXANDER PALM BH=30"	tr1257 6" BISCHOFFIA
46 14" ROYAL PALM BH=33"	tr819	6" ROYAL PALM BH=5"	tr829	12" SABAL PALM BH=27"	tr1202	11" CARROTWOOD	tr990	10" ROYAL PALM BH=25"	tr1064 15" POND APPLE	tr1138	12" POND APPLE	tr1326	15" CARROTWOOD	tr1258 6" BISCHOFFIA
47 14" ROYAL PALM BH=30"	tr900	6" COCONUT PALM BH=25"	tr830	12" SABAL PALM BH=29"	tr1203	6* BISCHOFFIA	tr991	18" SABAL PALM BH=18'	tr1065 15" BISCHOFFIA	tr1139	18" ROYAL PALM BH=45"	tr1327	18" ROYAL PALM BH=35"	tr1259 5* ALEXANDER PALM BH=20*
48 15" ROYAL PALM BH=28"	tr901	24" ROYAL PALM BH=45"		12" SABAL PALM BH=20'		6* BISCHOFFIA		18" STRANGLER FIG	tr1066 12* ROYAL PALM BH=45*		6" POND APPLE		4" UNKNOWN	tr1260 7* BISCHOFFIA
49 18" ROYAL PALM BH=30"	tr902	6" CARROTWOOD	tr832	14" SABAL PALM BH=18"		18" BISCHOFFIA		8° BISCHOFFIA	tr1067 12* ROYAL PALM BH=45*	tr1141	6* BALD CYPRESS	tr1329	10" ROYAL PALM BH=13"	tr1261 7* BISCHOFFIA
49 18" ROYAL PALM BH=30"	tr902		tr832	14" SABAL PALM BH=18"			tr993	8" BISCHOFFIA 30" STRANGLER FIG	tr1067 12" ROYAL PALM BH=25" tr1068 18" POND APPLE	tr1141		tr1329	10" ROYAL PALM BH=13"	tr1261 7" BISCHOFFIA tr1262 6" BISCHOFFIA
	-	6" CARROTWOOD				18" ROYAL PALM BH=48"					20" ROYAL PALM BH=45"			
751 4* QAK	tr904	8" COCONUT PALM BH=18'	tr828	16" ROYAL PALM BH=37"		8" CARROTWOOD	tr995	8° BISCHOFFIA	tr1069 4" BALD CYPRESS	tr1143	6" POND APPLE	tr1331	10" ROYAL PALM BH=40"	tr1263 11" BISCHOFFIA
752 16" BISCHOFFIA	tr905	9" COCONUT PALM BH=20"	tr834	36" OAK	tr1208	15" ROYAL PALM BH=45"	tr996	8° BISCHOFFIA	tr1070 15" POND APPLE	tr1144	8" BALD CYPRESS	tr1332	8" ROYAL PALM BH=20"	tr1264 7* BISCHOFFIA
53 12" SABAL PALM BH=23"	tr906	5" COCONUT PALM BH=7"	tr835	7" ROYAL PALM BH=9'	tr1209	10" CARROTWOOD	tr997	8* BISCHOFFIA	tr1071 12* POND APPLE	tr1145	15" ROYAL PALM BH=45"	tr1333	18" ROYAL PALM BH=45"	tr1265 13" BISCHOFFIA
754 11" SABAL PALM BH=23"	tr907	8" COCONUT PALM BH=8"	tr836	12" ROYAL PALM BH=18"	tr1210	10" BISCHOFFIA	tr998	15" SABAL PALM BH=12"	tr1072 5" ROYAL PALM BH=8"	tr1146	10" BALD CYPRESS	tr1334	8* BISCHOFFIA	tr1266 8* BISCHOFFIA
755 10" SABAL PALM BH=23"	tr908	5" COCONUT PALM BH=5"	tr837	5" ROYAL PALM BH=5"		18" BISCHOFFIA		8° BISCHOFFIA	tr1073 10° ROYAL PALM BH=30°	tr1147	12" BALD CYPRESS	tr1340		tr1267 8° BISCHOFFIA
										_				
756 12" SABAL PALM BH=30"	tr909	9" COCONUT PALM BH=20'		12" ROYAL PALM BH=21"		8" BISCHOFFIA		6" BISCHOFFIA	tr1074 18" BALD CYPRESS		10 TONO AT CL	tr1341	18" ROYAL PALM BH=45"	tr1268 6" BISCHOFFIA
757 10" SABAL PALM BH=23"	tr910	8" COCONUT PALM BH=22'	tr839	15" ROYAL PALM BH=30"	tr1213	10" BISCHOFFIA		5° BISCHOFFIA	tr1075 18* POND APPLE		6" COCONUT PALM BH=8"		12" POND APPLE	tr1269 4" BISCHOFFIA
758 12" SABAL PALM BH=25"	tr911	6" CARROTWOOD	tr840	8" WASHINGTONIA PALM BH=48'	tr1214	8" BISCHOFFIA	tr1002	5* BISCHOFFIA	tr1076 8" ROYAL PALM BH=26"	tr1155	10" COCONUT PALM BH=20'	tr1343	8" POND APPLE	tr1270 4* BISCHOFFIA
759 12" SABAL PALM BH=25"	tr912	6" CARROTWOOD	tr841	15" SABAL PALM BH=22'	tr1215	6* BISCHOFFIA	tr1003	8* BISCHOFFIA	tr1077 20" ROYAL PALM BH=50"	tr1156	8" ROYAL PALM BH=10"	tr1344	12" POND APPLE	tr1271 5* BISCHOFFIA
760 10" CARROTWOOD	tr913	7" MAHOGANY	tr842	5" QAK	tr1216	9" BISCHOFFIA	tr1004	18" ROYAL PALM BH=35"	tr1078 5" ROYAL PALM BH=8"	tr1157	8" WILLOW	tr1345	18" ROYAL PALM BH=40"	tr1272 10* POND APPLE
761 4* CARROTWOOD	tr914	6" CARROTWOOD		5" BISCHOFFIA		10" BISCHOFFIA		72" STRANGLER FIG	tr1079 5" BALD CYPRESS	tr1158	8" WILLOW		15" ROYAL PALM BH=35"	tr1273 5" POND APPLE
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	tr915	6* CARROTWOOD	tr860	5" BISCHOFFIA		12" BISCHOFFIA		8* ROYAL PALM BH=8"	tr1080 12* MAPLE	_	10" BISCHOFFIA		8" ROYAL PALM BH=10"	tr1274 6" POND APPLE
'63 3° ACACIA (EAR LEAF)	tr916	8" CARROTWOOD	tr861	4" OAK		16" ROYAL PALM BH=38"		6" ACACIA (EAR LEAF)	tr1081 12" ROYAL PALM BH=30"		** ************************************		15" ROYAL PALM BH=40"	tr1275 17* ROYAL PALM BH=35*
764 18" ROYAL PALM BH=35"	tr917	8" CARROTWOOD	tr862	5" OAK	tr1220	16" ROYAL PALM BH=38"	tr1008	8* ACACIA (EAR LEAF)	tr1082 20" ROYAL PALM BH=40"	tr1161	8" BISCHOFFIA	tr1349	12" BALD CYPRESS	tr1276 8* ROYAL PALM BH=7*
765 18" ROYAL PALM BH=40"	tr918	7" CARROTWOOD	tr863	12" BLACK OLIVE	tr1221	24" ROYAL PALM BH=45"	tr1009	12" PIDGEON PLUM	tr1083 12" ROYAL PALM BH=40"	tr1162	15" CARROTWOOD	tr1350	15" BALD CYPRESS	tr1277 13" ROYAL PALM BH=22"
766 13" SABAL PALM BH=16"	tr919	6" CARROTWOOD		6" OAK		14" ROYAL PALM BH=17"		12" CARROTWOOD	tr1084 20" ROYAL PALM BH=40"		12" POND APPLE		8" POND APPLE	tr1278 11" ROYAL PALM 8H=9"
767 18° OAK	tr920	8" CARROTWOOD	tr844	7" OAK	_	7" ROYAL PALM BH=9"		36" PIDGEON PLUM	tr1085 18" ROYAL PALM RH=45"	tr1164			20° ROYAL PALM BH=50'	tr1279 8" ROYAL PALM BH=6"
772 20* SCHEFFLLERA	tr921	8" CARROTWOOD	tr845	4" OAK	tr1224	4" ROYAL PALM BH=5"		18" PIDGEON PLUM	tr1086 15" ROYAL PALM BH=45"	tr1165	8" POND APPLE	tr1353		tr1280 8* BISCHOFFIA
'68 3" ARECA BAMBOO PALM BH=14'	tr922	8" CARROTWOOD	tr846	12" MAPLE	tr1225	14" ROYAL PALM BH=28"	tr1013	18" ROYAL PALM BH=50"	tr1087 20" ROYAL PALM BH=30"	tr1166	18" POND APPLE	tr1354	12" ROYAL PALM BH=25"	tr1281 12" POND APPLE
69 3" ARECA BAMBOO PALM BH=14"	tr923	6" CARROTWOOD	tr865	UNKN® CITRUS TREE	tr1226	14" ROYAL PALM BH=31"	tr1014	4" WILD TAMARIND	tr1088 12" ROYAL PALM BH=40"	tr1167	18" ROYAL PALM BH=45"	tr1355	20" ROYAL PALM BH=45"	tr1282 16" ROYAL PALM BH=20"
70 13" ROYAL PALM BH=26"	tr924	6" CARROTWOOD	tr847	4" OAK	tr1227	14" ROYAL PALM BH=19"	tr1015	12" OAK	tr1089 20" ROYAL PALM BH=50"	tr1168	6" ROYAL PALM BH=8"	tr1356	15" ROYAL PALM BH=50"	tr1283 12" POND APPLE
71 3* ARECA BAMBOO PALM BH=14'	tr925	6" CARROTWOOD	tr848	4" OAK	tr1228	19" PALM BH=20'	tr1016	12* OAK	tr1090 18" ROYAL PALM BH=50"	tr1169	18" ROYAL PALM BH=30"	tr1357	18" ROYAL PALM BH=45"	tr1284 14" ROYAL PALM BH=22"
73 3* ARECA BAMBOO PALM BH=14*	tr926	18* CARROTWOOD	tr849	a, ow		15" ROYAL PALM BH=28"		18" ROYAL PALM BH=55"	tr1091 12* POND APPLE		8° POND APPLE	tr1358	10 110110 11011110	tr1399 15" MAPLE
	tr927													
		10* CARROTWOOD		5" OAK		12" ROYAL PALM BH=28"		12" ROYAL PALM BH=55"	tr1092 18" SABAL PALM BH=12'		8* POND APPLE		24" POND APPLE	tr1400 12" ROYAL PALM BH=15"
75 3° ARECA BAMBOO PALM BH=14'	_	6" CARROTWOOD		5" QAK		14" ROYAL PALM BH=19'		4* POND APPLE	tr1093 20" POND APPLE		8" POND APPLE		12" ROYAL PALM BH=40"	tr1401 31" PALM BH=12"
76 15" BISCHOFFIA	tr929	6" CARROTWOOD	tr852	18" BALD CYPRESS	tr1232	18" ROYAL PALM BH=27"		8* POND APPLE	tr1094 18" ROYAL PALM BH=35"	tr1173	18" BISCHOFFIA	tr1361	15" ROYAL PALM BH=45"	tr1402 12" MAPLE
77 16" COCONUT PALM BH=32"	tr930	6" CARROTWOOD	tr853	20" BALD CYPRESS	tr1233	UNKN" UNKNOWN	tr1021	8" SABAL PALM BH=18"	tr1095 6" POND APPLE	tr1174	36" STRANGLER FIG	tr1362	8" BISCHOFFIA	tr1403 12" POND APPLE
78 14" COCONUT PALM BH=38"	tr931	6" CARROTWOOD	tr854	17* BALD CYPRESS	tr1234	13" ROYAL PALM BH=40"		4* POND APPLE	tr1096 12" POND APPLE	tr1175	6* CARROTWOOD	tr1363	12" ROYAL PALM BH=20"	tr1404 8" POND APPLE
79 11" COCONUT PALM BH=32"	tr932	6* BISCHOFFIA	tr855	19" BALD CYPRESS		13" ROYAL PALM BH=32"		12" ROYAL PALM BH=45"	tr1097 10" BALD CYPRESS	tr1176	6* CARROTWOOD		8* POND APPLE	tr1405 4* POND APPLE
	_		_		_					_		_		
	tr933	10" COCONUT PALM BH=20"	tr856	14" SABAL PALM BH=29'		14" STRANGLER FIG		18" ROYAL PALM BH=40"	tr1098 72" PIDGEON PLUM	tr1177	8" BISCHOFFIA		18" ROYAL PALM BH=50"	tr1406 12" POND APPLE
1 14" BISCHOFFIA	tr934	8" COCONUT PALM BH=8"	tr857	20" ROYAL PALM BH=32"		10" BISCHOFFIA		12" POND APPLE	tr1099 8" SABAL PALM BH=25"	tr1178	18" ROYAL PALM BH=45"		8" BISCHOFFIA	tr1407 15" POND APPLE
18" BISCHOFFIA	tr935	12* CARROTWOOD	tr858	11" COCONUT PALM BH=15"	tr1238	4" BISCHOFFIA	tr1026	12" ROYAL PALM BH=8"	tr1100 30" OAK	tr1179	15" ROYAL PALM BH=45"	tr1367	10" POND APPLE	tr1408 10" POND APPLE
B3 5* BISCHOFFIA	tr936	12* COCONUT PALM BH=20*	tr859	9" COCONUT PALM BH=11"		8" BISCHOFFIA		4* POND APPLE	tr1101 10* QAK		8" BISCHOFFIA	tr1368	8* POND APPLE	tr1409 6" POND APPLE
84 5° BISCHOETIA	tr937	18" SABAL PALM BH=20"		11° 04K		4" RISCHOFFIA		6" POND APPLE	tr1102 10" OAK		8* RISCHOFFIA		15" ROYAL PALM RH=40"	tr1410 10" POND APPLE
o discrisi in	4007		0000											
	tr938	18" SABAL PALM BH=10"	tr867	13" OAK		6" BISCHOFFIA		4* POND APPLE	tr1103 12* QAK		6* BISCHOFFIA		8" POND APPLE	tr1411 12" SABAL PALM BH=15"
96 12" BISCHOFFIA	tr939	8" MAHOGANY	tr868	7" BISCHOFFIA		19" BISCHOFFIA		6" POND APPLE	trr1104 15" QAK	tr1183		tr1371		tr1412 12" SABAL PALM BH=10"
87 12" BISCHOFFIA	tr940	10* CARROTWOOD	tr869	4" PALM BH=4"	tr1243	22" BISCHOFFIA	tr1031	18" ROYAL PALM BH=50"	tr1105 40" BANYAN TREE	tr1184	6* POND APPLE	tr1372	4" PALM BH=FISHTAIL"	tr1413 8* POND APPLE
88 8* BISCHOFFIA	tr941	15" MAHOGANY	tr870	4" PALM BH=6"	tr1244	16" BISCHOFFIA	tr1032	20" ROYAL PALM BH=45"	trr1106 15" GUMBO LIMBO	tr1185	6* POND APPLE	tr1373	4" POND APPLE	tr1414 6" POND APPLE
789 10° RISCHOFFIA	tr942	18* SABAL PALM BH=10'	_	4" PALM BH=7"	_	17" MAPLE		18" ROYAL PALM BH=45"	tr1107 6° ALEXANDER PALM RH=20'	_	6* POND APPLE	_	4* BISCHOFFIA	tr1415 6" POND APPLE
10 000000000								10 110110 11-10	The Teather The Control			_		
90 10" BISCHOFFIA	tr943	10* CARROTWOOD	tr872	16" ROYAL PALM BH=30"	tr1246	13" ROYAL PALM BH=40"	tr1034	15" ROYAL PALM BH=45"	tr1108 24" BLACK OLIVE	tr1187	6* CARROTWOOD	tr1375	24" STRANGLER FIG	tr1416 6" POND APPLE

TRL: 954-XXX-XXXX PAX: 954-XXX-XXXX CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING & ARCHITECTURE City df Fort Lauderdale BY CHK'D NO. PROJECT # 11419

STORMWATER IMPROVEMENTS

RIVER OAKS PRESERVE SURVEY

TREE CHART

BOUNDARY/TOPOGRAHIC SURVEY SHEET NO. SU-07 8 THE CHAPPED STATE STATE

543	Quercus spp.	Oak	Removed	30
544	Quercus spp.	Oak	Removed	30
545	Quercus spp.	Oak	Relocated	12
546	Sabal palmetto	Sabal Palm	Removed	12
547	Sabal palmetto	Sabal Palm	Removed	11
548	Sabal palmetto	Sabal Palm	Removed	11
		Live Oak	Removed	122
549	Quercus virginiana			
553	Quercus spp.	Oak	Relocated	7
727	Roystonea regia	Royal Palm	Remain	7
730	Sabal palmetto	Sabal Palm	Remain	10
731	Roystonea regia	Royal palm	Remain	19
732	Roystonea regia	Royal palm	Removed	19
733	Quercus spp.	Oak	Removed	18
734	Quercus spp.	Oak	Removed	10
735	Quercus spp.	Oak	Removed	15
737			Removed	18
	Roystonea regia	Royal Palm		
738	Roystonea regia	Royal Palm	Removed	20
739	Roystonea regia	Royal Palm	Removed	20
741	Sabal palmetto	Sabal Palm	Removed	12
742	Roystonea regia	Royal Palm	Removed	14
743	Sabal palmetto	Sabal Palm	Removed	12
744	Sabal palmetto	Sabal Palm	Removed	12
745	Sabal palmetto	Sabal Palm	Removed	14
746	Roystonea regia	Royal Palm	Removed	14
			Removed	14
747	Roystonea regia	Royal Palm		
748	Roystonea regia	Royal Palm	Removed	15
749	Roystonea regia	Royal Palm	Removed	18
750	Roystonea regia	Royal Palm	Removed	16
751	Quercus spp.	Oak	Relocated	4
753	Sabal palmetto	Sabal Palm	Removed	12
754	Sabal palmetto	Sabal Palm	Removed	11
755	Sabal palmetto	Sabal Palm	Removed	10
756 756	Sabal palmetto Sabal palmetto	Sabal Palm Sabal Palm	Remain	10
757	Sabal palmetto	Sabal Palm	Removed	10
758	Sabal palmetto	Sabal Palm	Removed	12
759	Sabal palmetto	Sabal Palm	Remain	12
764	Roystonea regia	Royal Palm	Removed	18
765	Roystonea regia	Royal Palm	Removed	18
766	Sabal palmetto	Sabal Palm	Removed	13
767	Quercus spp.	Oak	Removed	18
770		Royal Palm	Removed	13
	Roystonea regia			
780	Roystonea regia	Royal Palm	Removed	15
793	Roystonea regia	Royal Palm	Removed	15
794	Roystonea regia	Royal Palm	Removed	11
795	Roystonea regia	Royal Palm	Removed	14
796	Roystonea regia	Royal Palm	Removed	16
801	Roystonea regia	Royal Palm	Removed	14
802	Roystonea regia	Royal Palm	Removed	18
		Royal Palm	Remain	10
803	Roystonea regia			16
804	Roystonea regia	Royal Palm	Remain	
805	Sabal palmetto	Sabal Palm	Remain	15
806	Sabal palmetto	Sabal Palm	Remain	14
807	Ficus aurea	Strangler Fig	Remain	40
810	Sabal palmetto	Sabal Palm	Remain	11
811	Sabal palmetto	Sabal Palm	Remain	12
812	Quercus spp.	Oak	Remain	42
813	Sabal palmetto	Sabal Palm	Remain	14
814	Sabal palmetto	Sabal Palm	Remain	14
817	Quercus virginiana	Live Oak	Removed	54
818	Quercus virginiana	Live Oak	Removed	54
819	Roystonea regia	Royal Palm	Remain	6
821	Roystonea regia	Royal Palm	Remain	34
822	Quercus spp.	Oak	Remain	15
823	Quercus spp.	Oak	Remain	24
824	Quercus spp.	Oak	Remain	30
826	Roystonea regia	Royal Palm	Removed	12
828		Royal Palm	Removed	16
828 829	Roystonea regia Sabal palmetto	Sabal Palm	Remain	12
830	Sabal palmetto	Sabal Palm	Remain	12
831	Sabal palmetto	Sabal Palm	Removed	12
832	Sabal palmetto	Sabal Palm	Removed	14
833	Ficus aurea	Strangler Fig	Removed	30
834	Quercus spp.	Oak	Removed	36
835		Royal Palm	Removed	7
	Roystonea regia			
836	Roystonea regia	Royal Palm	Removed	12
837	Roystonea regia	Royal Palm	Removed	5
838	Roystonea regia	Royal Palm	Removed	12
		Royal Palm	Removed	16
839	Roystonea regia			
839 841	Roystonea regia Sabal palmetto	Sabal Palm	Removed	15

TREE#	SCIENTIFIC NAME	COMMON NAME	CONDITION	CALIPER INCHES
843	Quercus spp.	Oak	Removed	5
844	Quercus spp.	Oak	Relocated	7
845	Quercus spp.	Oak	Relocated	4
846	Acer rubrum	Red Maple	Relocated	12
847	Quercus spp.	Oak	Relocated	4
848	Quercus spp.	Oak	Relocated	4
849	Quercus spp.	Oak	Relocated	9
850	Quercus spp.	Oak	Relocated	5
000				
851	Quercus spp.	Oak	Relocated	5
856	Sabal palmetto	Sabal Palm	Removed	14
857	Roystonea regia	Royal Palm	Removed	20
861	Quercus spp.	Oak	Relocated	4
862	Quercus spp.	Oak	Relocated	5
864	Quercus spp.	Oak	Relocated	6
866	Quercus spp.	Oak	Removed	11
867	Quercus spp.	Oak	Removed	13
872	Roystonea regia	Royal pam	Removed	16
873	Ficus aurea	Strangler Fig	Removed	40
874	Quercus spp.	Oak	Removed	16
875			Removed	16
	Roystonea regia	Royal Palm		
887	Sabal palmetto	Sabal Palm	Removed	14
888	Sabal palmetto	Sabal Palm	Removed	11
889	Taxodium distichum	Bald Cypress	Removed	20
901	Roystonea regia	Royal Palm	Remain	24
913	Swietenia mahagoni	Mahogany	Remain	7
937	Sabal palmetto	Sabal Palm	Removed	18
938	Sabal palmetto	Sabal Palm	Removed	18
939	Swietenia mahagoni	Mahogany	Remain	8
941	Swietenia mahagoni	Mahogany	Removed	15
		Sabal Palm		15
942	Sabal palmetto		Removed	
944	Swietenia mahagoni	Mahogany	Removed	20
945	Ficus aurea	Strangler Fig	Removed	30
948	Sabal palmetto	Sabal Palm	Removed	10
949	Sabal palmetto	Sabal Palm	Removed	10
950	Sabal palmetto	Sabal Palm	Removed	12
951	Swietenia mahagoni	Mahogany	Relocated	5
952	Swietenia mahagoni	Mahogany	Relocated	5
953	Swietenia mahagoni	Mahogany	Relocated	4
954	Serenoa repens	Saw Palmetto Palm	Remain	20
954	Serenoa repens	Saw Palmetto Palm	Remain	20
956				15
	Quercus spp.	Oak	Removed	
958	Serenoa repens	Saw Palmetto Palm	Removed	18
959	Swietenia mahagoni	Mahogany	Relocated	12
963	Sabal palmetto	Sabal Palm	Remain	18
966	Swietenia mahagoni	Mahogany	Removed	10
967	Sabal palmetto	Sabal Palm	Removed	18
968	Ficus aurea	Strangler Fig	Removed	6
970	Sabal palmetto	Sabal Palm	Removed	18
971	Sabal palmetto	Sabal Palm	Removed	12
972	Sabal palmetto	Sabal Palm	Removed	12
973	Sabal palmetto	Sabal Palm	Remain	18
973		Sabal Palm		
	Sabal palmetto		Remain	18
976	Ficus aurea	Strangler Fig	Remain	
977	Ficus aurea	Strangler Fig	Remain	84
991	Sabal palmetto	Sabal Palm	Removed	18
992	Ficus aurea	Strangler Fig	Removed	18
994	Ficus aurea	Strangler Fig	Removed	30
998	Sabal palmetto	Sabal Palm	Removed	15
1004	Roystonea regia	Royal Palm	Removed	18
1005	Ficus aurea	Strangler Fig	Removed	72
1005	Roystonea regia	Royal Palm	Removed	8
			Removed	12
1009	Coccoloba diversifolia	Pidgeon Plum		
1011	Coccoloba diversifolia	Pidgeon Plum	Removed	36
1012	Coccoloba diversifolia	Pidgeon Plum	Removed	18
1014	Leucaena leucocephala	Wild Tamarind	Removed	4
1015	Quercus spp.	Oak	Remain	12
1016	Quercus spp.	Oak	Remain	12
1017	Roystonea regia	Royal Palm	Remain	18
1018	Roystonea regia	Royal Palm	Remain	12
1018	Annona glabra	Pond Apple	Remain	4
1020			Remain	8
	Annona glabra	Pond Apple		
1021	Sabal palmetto	Sabal Palm	Remain	8
1022	Annona glabra	Pond Apple	Remain	4
1023	Roystonea regia	Royal Palm	Remain	12
1025	Annona glabra	Pond Apple	Remain	12
1027	Annona glabra	Pond Apple	Remain	4
1028	Annona glabra	Pond Apple	Remain	6
1029	Annona glabra	Pond Apple	Remain	4
1029		Pond Apple Pond Apple	Remain	6
	Annona glabra	гона Арріе		18
1031	Roystonea regia	Royal Palm	Remain	

ENGINEER: PATRICK J. GIBNEY REG. No. 49428 DATE: 10/26//2018		TEL: 854-739-6400 PAX: 854-739-6409	
DENGRIN BY: DATE: L.C./M.N. 1/18/2019 DESIGNED BY: SCALE: W.R./M.N. VERT 1"=2"	CHECKED BY: HOR 1"=40" A.G.	PIELD BOOK:	
CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT	ENGINEERING & ARCHITECTURE CHRICKED BTF. HOR 1"=40"	100 North Andrews Avenue, Fort Lauderdale, Fbrida 33301	
REVISIONS NO. DATE BY GHYD DESCRIPTION			
		TION PLAN	

PROJECT # 11419
RIVER OAKS PRESERVE
ENVIRONMENTAL
SITE PLAN
NATIVE TREE DISPOSITIOI SHEET NO. TD-2

TOTAL:
CAD FILE:
11419-004-SITE
DRAWING FILE NO.
4-135-81
1/16/2019

ENGINEER:
PATRICK J. GIBNEY
REG. No: 49428
DATE: 10/26//2018

| DRAWN BY: | DATE: | LC./M.M. | 1/18/2019 | DISSIONED BY: SCALE: | W.R./M.N. VERT 1"=2' | CHECKED BY: | HOR 1"=40' | A.G. | PIRELD BOOK: | P

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE

PROJECT # 11419
RIVER OAKS PRESERVE
ENVIRONMENTAL
SITE PLAN
NATIVE TREE DISPOSITION PLAN

SHEET NO. TD-3

TOTAL: 40
CAD FILE:
11419-004-SITE
DRAWING FILE NO.
4-135-81

TEL: 954-739-6400 PAX: 954-739-6409

THE CHEPOPOLI DE PRINTER L'ANDIE L'ANDI

TREE #	SCIENTIFIC NAME	COMMON NAME	CONDITION	CALIPER INCHES
1032	Roystonea regia	Royal Palm	Remain	20
1033	Roystonea regia	Royal Palm	Remain	18
1034	Roystonea regia	Royal Palm	Remain	15
1035	Roystonea regia	Royal Palm	Remain	10
1036	Roystonea regia	Royal Palm	Remain	8
1037	Roystonea regia	Royal Palm	Remain	15
1038	Roystonea regia	Royal Palm	Remain	18
1039	Annona glabra	Pond Apple	Remain	6
1040	Coccoloba uvifera	Sea Grape	Removed	36
1041	Coccoloba uvifera	Sea Grape	Remain	15
1042	Quercus spp.	Oak	Remain	12
1043	Quercus spp.	Oak	Remain	12
1044	Quercus spp.	Oak	Remain	18
1045	Roystonea regia	Royal Palm	Remain	12
1046	Taxodium distichum	Bald Cypress	Remain	10
1047	Annona glabra	Pond Apple	Remain	8
1048	Sabal palmetto	Sabal Palm	Remain	8
1049	Sabal palmetto	Sabal Palm	Remain	8
1050	Roystonea regia	Royal Palm	Remain	18
1051	Acer rubrum	Red Maple	Remain	12
1052	Roystonea regia	Royal Palm	Remain	12
1053	Roystonea regia	Royal Palm	Remain	12
1054	Annona glabra	Pond Apple	Remain	12
1055	Annona glabra	Pond Apple	Remain	8
1056	Annona glabra	Pond Apple	Remain	6
1057	Roystonea regia	Royal Palm	Remain	12
1058	Annona glabra	Pond Apple	Remain	6
1059	Roystonea regia	Royal Palm	Remain	18
1060	Roystonea regia	Royal Palm	Remain	5
1061	Roystonea regia	Royal Palm	Remain	12
1062	Annona glabra	Pond Apple	Remain	8
1063	Roystonea regia	Royal Palm	Remain	15
1064	Annona glabra	Pond Apple	Remain	15
1066	Roystonea regia	Royal Palm	Remain	12
1067	Roystonea regia	Royal Palm	Remain	12
1068	Annona glabra	Pond Apple	Remain	18
1069	Taxodium distichum	Bald Cypress	Remain	4
1070	Annona glabra	Pond Apple	Remain	15
1071	Annona glabra	Pond Apple	Remain	12
1072	Roystonea regia	Royal Palm	Remain	5
1073	Roystonea regia	Royal Palm	Remain	10
1074	Taxodium distichum	Bald Cypress	Remain	18
1075	Annona glabra	Pond Apple	Remain	18
1076	Roystonea regia	Royal Palm	Remain	8
1077	Roystonea regia	Royal Palm	Remain	20
1078	Roystonea regia	Royal Palm	Remain	5
1079	Taxodium distichum	Bald Cypress	Remain	5
1080	Acer rubrum	Red Maple	Remain	12
1081	Roystonea regia	Royal Palm	Remain	12
1082	Roystonea regia	Royal Palm	Remain	20
1083	Roystonea regia	Royal Palm	Remain	12
1084	Roystonea regia	Royal Palm	Remain	20
1085	Roystonea regia	Royal Palm	Remain	18
1085	Roystonea regia	Royal Palm	Remain	15
1087			Remain	20
1087	Roystonea regia	Royal Palm Royal Palm	Remain	12
1088	Roystonea regia	Royal Palm Royal Palm	Remain	20
1089	Roystonea regia	Royal Palm Royal Palm	Remain	18
1090	Roystonea regia Annona glabra	Pond Apple	Remain	18
1091		Sabal Palm	Remain	12
1092	Sabal palmetto		Remain	20
1093	Annona glabra	Pond Apple		20 18
	Roystonea regia	Royal Palm	Remain Remain	18 6
1095 1096	Annona glabra	Pond Apple		12
1096	Annona glabra	Pond Apple	Remain Remain	12
	Taxodium distichum	Bald Cypress		
1099	Sabal palmetto	Sabal Palm	Remain Remain	8
1100 1101	Quercus spp.	Oak Oak	Remain	30 10
	Quercus spp.			10
1102	Quercus spp.	Oak	Relocated	
1103	Quercus spp.	Oak	Relocated	12
1109	Roystonea regia	Royal Palm	Remain	12
1110	Annona glabra	Pond Apple	Remain	8
1111	Annona glabra	Pond Apple	Remain	12
1112	Roystonea regia	Royal Palm	Remain	8
1113	Annona glabra	Pond Apple	Remain	18
1114	Annona glabra	Pond Apple	Remain	8
1115	Taxodium distichum	Bald Cypress	Remain	8
1116	Roystonea regia	Royal Palm	Remain	15
1117	Taxodium distichum	Bald Cypress	Removed	12
1119	Annona glabra	Pond Apple	Remain	15

1120	Roystonea regia	Royal Palm	Remain	18
1121	Roystonea regia	Royal Palm	Remain	20
1122	Annona glabra	Pond Apple	Remain	8
1123	Annona glabra	Pond Apple	Remain	8
1124	Annona glabra	Pond Apple	Remain	8
1125				6
	Annona glabra	Pond Apple	Remain	
1126	Annona glabra	Pond Apple	Remain	6
1127	Annona glabra	Pond Apple	Remain	6
1131	Sabal palmetto	Sabal Palm	Remain	10
1132	Roystonea regia	Royal Palm	Remain	12
1133	Roystonea regia	Royal Palm	Remain	8
1134	Roystonea regia	Royal Palm	Remain	18
1135	Annona glabra	Pond Apple	Remain	30
1137	Annona glabra	Pond Apple	Remain	6
1138	Annona glabra	Pond Apple	Remain	12
1139		Royal Palm	Remain	18
	Roystonea regia			18 6
1140	Annona glabra	Pond Apple	Remain	-
1141	Taxodium distichum	Bald Cypress	Remain	6
1142	Roystonea regia	Royal Palm	Remain	20
1143	Annona glabra	Pond Apple	Remain	6
1144	Taxodium distichum	Bald Cypress	Remain	8
1145	Roystonea regia	Royal Palm	Remain	15
1146	Taxodium distichum	Bald Cypress	Remain	10
1147	Taxodium distichum	Bald Cypress	Remain	12
1147	Annona glabra	Pond Apple	Remain	15
			Remain	15
1163	Annona glabra	Pond Apple		
1164	Annona glabra	Pond Apple	Remain	12
1165	Annona glabra	Pond Apple	Remain	8
1166	Annona glabra	Pond Apple	Remain	18
1184	Annona glabra	Pond Apple	Remain	6
1185	Annona glabra	Pond Apple	Remain	6
1186	Annona glabra	Pond Apple	Remain	6
1191	Annona glabra	Pond Apple	Remain	6
1192	Annona glabra	Pond Apple	Remain	6
1193			Remain	15
1193	Annona glabra	Pond Apple		10
	Annona glabra	Pond Apple	Remain	
1195	Annona glabra	Pond Apple	Remain	10
1196	Annona glabra	Pond Apple	Remain	8
1206	Roystonea regia	Royal Palm	Removed	18
1208	Roystonea regia	Royal Palm	Removed	15
1248	Roystonea regia	Royal Palm	Removed	15
1273	Annona glabra	Pond Apple	Remain	17
1274	Annona glabra	Pond Apple	Remain	
1275				17
	Roystonea regia	Royal Palm	Removed	
1276	Roystonea regia	Royal Palm	Removed	8
1277	Roystonea regia	Royal Palm	Removed	13
1281	Annona glabra	Pond Apple	Remain	12
1283	Annona glabra	Pond Apple	Remain	12
1314	Roystonea regia	Royal Palm	Removed	20
1315	Taxodium distichum	Bald Cypress	Remain	12
1319	Annona glabra	Pond Apple	Remain	12
1320	Roystonea regia	Royal Palm	Removed	18
1321	Roystonea regia	Royal Palm	Remain	20
1321		Royal Palm Royal Palm	Remain	18
	Roystonea regia			
1323	Roystonea regia	Royal Palm	Remain	18
1349	Taxodium distichum	Bald Cypress	Remain	12
1350	Taxodium distichum	Bald Cypress	Remain	15
1351	Annona glabra	Pond Apple	Remain	8
1356	Roystonea regia	Royal Palm	Remain	15
1358	Roystonea regia	Royal Palm	Remain	18
1369	Roystonea regia	Royal Palm	Removed	15
1370	Annona glabra	Pond Apple	Remain	8
1371		Oak	Removed	18
	Quercus spp.			
1373	Annona glabra	Pond Apple	Remain	4
1375	Ficus aurea	Strangler Fig	Removed	24
1376	Coccoloba uvifera	Sea Grape	Removed	12
1377	Roystonea regia	Royal Palm	Removed	8
1378	Roystonea regia	Royal Palm	Removed	12
1386	Annona glabra	Pond Apple	Remain	12
1393	Roystonea regia	Royal Palm	Remain	12
1393				
	Roystonea regia	Royal Palm	Remain	18
1395	Roystonea regia	Royal Palm	Remain	20
1157	Salix spp.	Willow	Relocated	8
1158	Salix spp.	Willow	Relocated	8
	Salix spp.	Willow	Remain	8

TREE #

SCIENTIFIC NAME

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE

TD-4



PLANTING PLAN

MARSH	(± 4.0	ac)
SF	PECIES	

Si Si	agittaria latifolia agittaria lancifolia	Pickerelweed Duck potato Arrow arum Fireflag Swamp lily	3' o/c 3' o/c 3' o/c 3' o/c	5,000 5,000 2,400	BR BR BR	(-)1.0' - 0' NAVD (-)1.0' - 0' NAVD (-)1.0' - (-)0.5' NAVD
Sa Th	agittaria lancifolia halia geniculata	Arrow arum Fireflag	3' o/c	2,400		()
Th	halia geniculata	Fireflag		,	BR	(-)1 0' - (-)0 5' NAVD
	•	Ü	3' o/c			() ()3.0 14/14/
Ci	rinum americanum	Swamp lilv		2,260	BR	(-)1.0' - 0' NAVD
			3' o/c	3,200	BR	(-)0.5' - 0' NAVD
			Subtotal	17,860		
TREES	3					
<u>s</u>	PECIES	COMMON NAME	SPACING	QUANTITY	SIZE	ELEVATION
Ta	axodium distichum	Bald cypress	10' o/c	80	7gal	0' - 1.0' NAVD
P	Pinus elliottii	Slash pine	10' o/c	70	7gal	0.5' - 4.0' NAVD
S	Sabal palmetto	Cabbage palm	10' o/c	150	8-10'	0.5' - 4.0' NAVD
			Subtotal	300		
SHRUE	BS & GROUNDCOVER	RS				
S	PECIES	COMMON NAME	SPACING	QUANTITY	SIZE	ELEVATION
Ti	ripsacum dactyloides	Fakahatchee grass	4' o/c	180	1gal	3.0' - 4.0' NAVD
S	partina bakeri	Sand cordgrass	4' o/c	200	1gal	1.0' - 4.0' NAVD
Н	łamelia patens	Firebush	4' o/c	600	1gal	0.5' - 4.0' NAVD
P	sychotria nervosa	Wild coffee	4' o/c	600	1gal	0.5' - 4.0' NAVD
M	Muhlenbergia capillaris	Muhly grass	4' o/c	300	LN	0.5' - 4.0' NAVD
			Subtotal	1,880		
			TOTAL	20.040		

COMMON NAME SPACING QUANTITY SIZE ELEVATION

SLOUGH (± 0.88ac)

		Subtotal	4,260		
Nymphaea odorata	White water lily	3' o/c	3,200	BR	0.5' - (-) 2.0' NAVD
Scirpus californicus	Giant bulrush	3' o/c	1,060	BR	0.5' - (-) 2.0' NAVD

TREE ISLAND (± 0.925 ac)

TREES

EXISTING TREES TO REMAIN ON TREE ISLANDS AND SUPPLEMENTAL PLANTINGS TO BE DONE WITH RELOCATED TREES

SHRUBS & GROUNDCOVERS

		Culatatal	2 520		
Psychotria nervosa	Wild coffee	4' o/c	620	1gal	1.0' - 4.0' NAVD
Hamelia patens	Firebush	4' o/c	850	1gal	1.0' - 4.0' NAVD
Tripsacum dactyloides	Fakahatchee grass	4' o/c	200	1gal	>3.0' NAVD
Chrysobalanus icaco	Cocoplum	4' o/c	850	1gal	1.0' - 4.0' NAVD
SPECIES	COMMON NAME	SPACING	QUANTITY	SIZE	ELEVATION



MITIGATION SIGNAGE (TYP.)

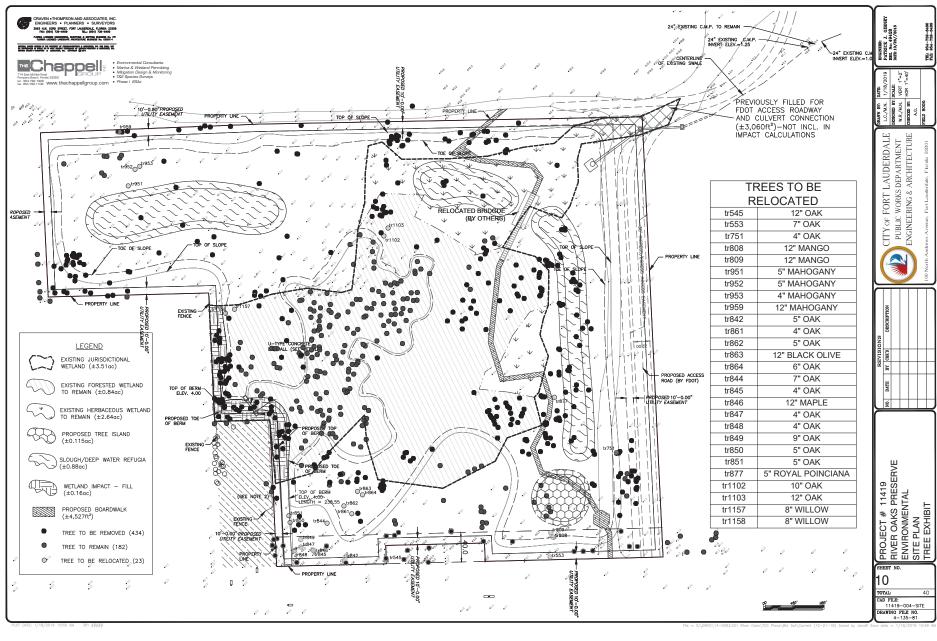
SIZE ABBREVIATIONS

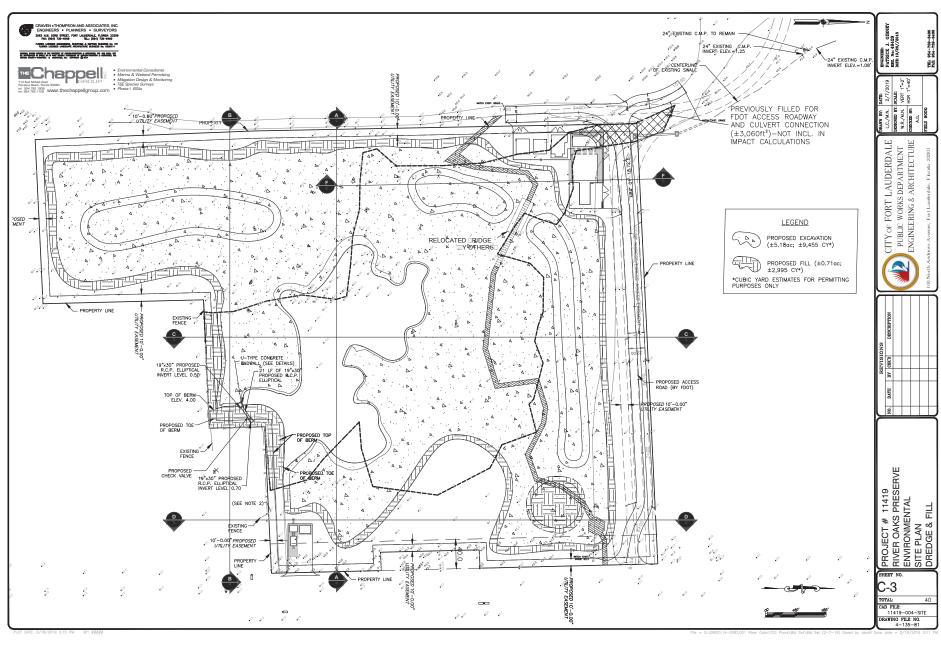
BR = Bare root

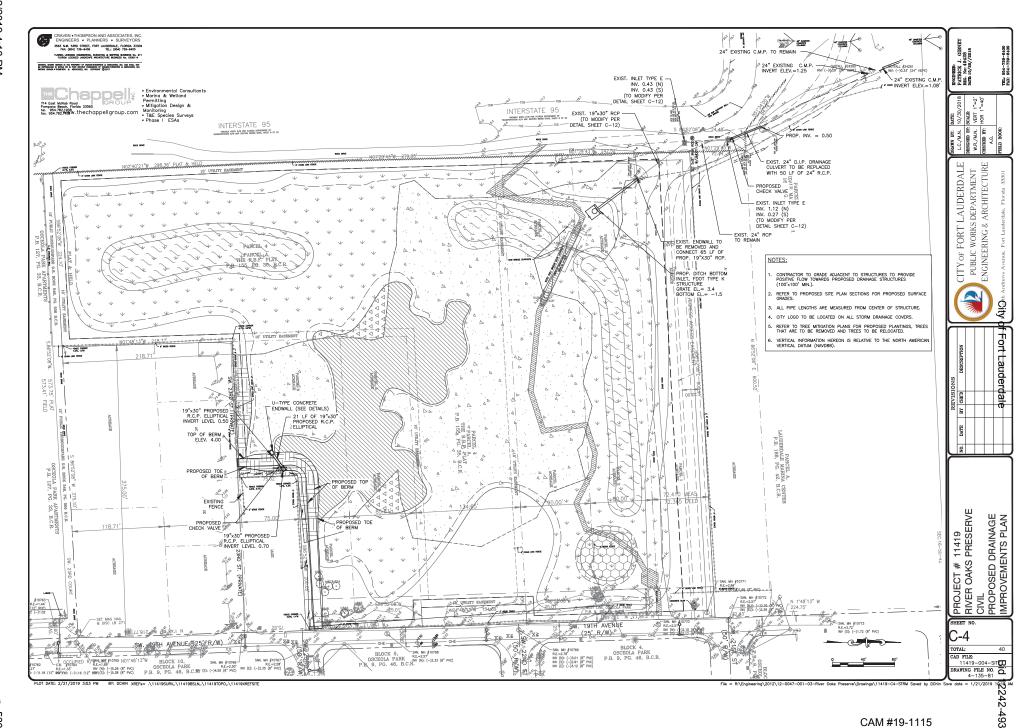
LN = Liner

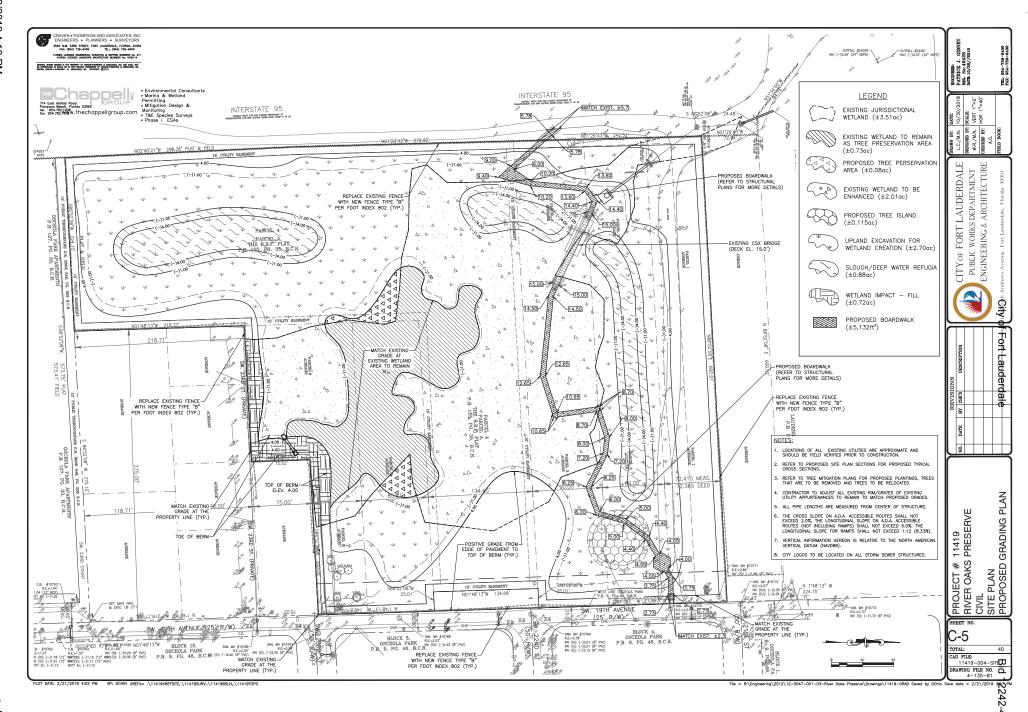
1gal = 1 gallon

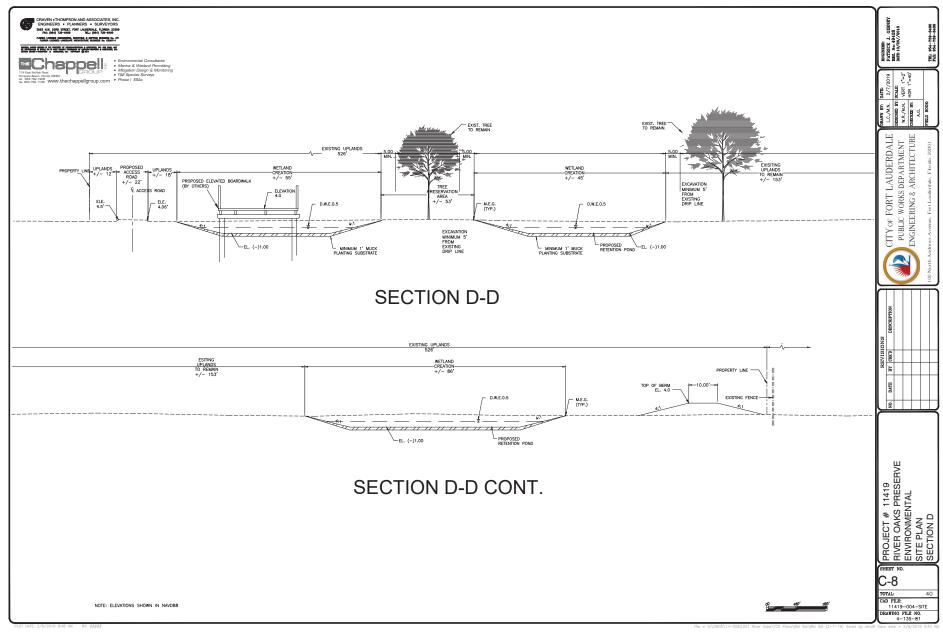
8-10' = 8-10' in height











Bid 12242-493

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE

PROPERTY LINE

EDGE OF PAVEMENT

CRAVEN • THOMPSON AND ASSOCIATES, INC.
ENGINEERS • PLANNERS • SURVEYORS
3963 H.M. 53R0 STREET, FORT LILLIDERDALE, FLORIDA 33300
FAM. (864) 738—4400 TBL. (894) 739—4400

EXISTING UPLAND EXCAVATION FOR WETLAND CREATION

EXISTING GRADE

D.W.E.0.5

EL. (-)1.00

INFLUENT PUMP STATION

EL. 14.40 ·

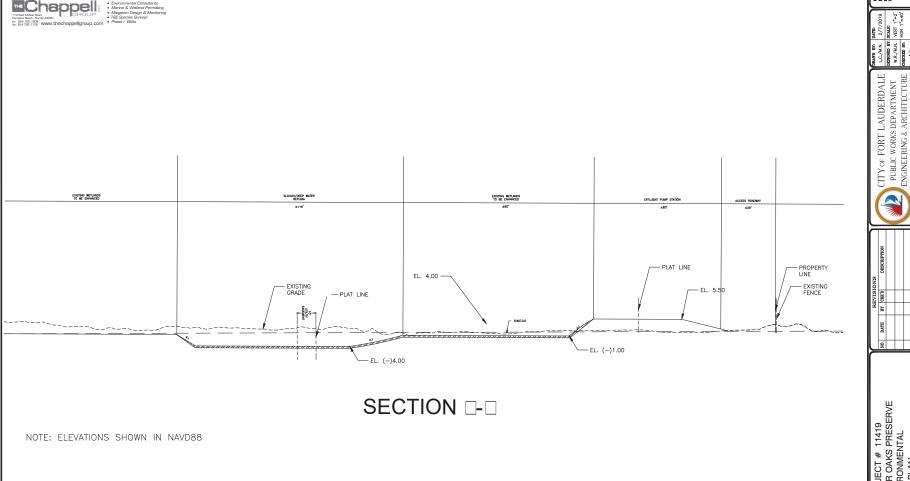
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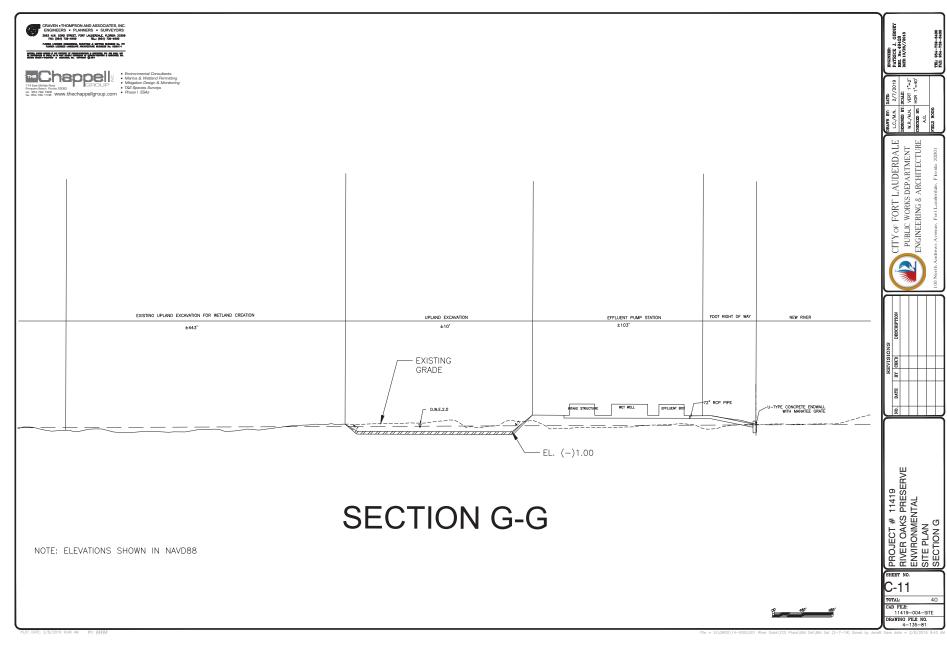
SECTION E-E

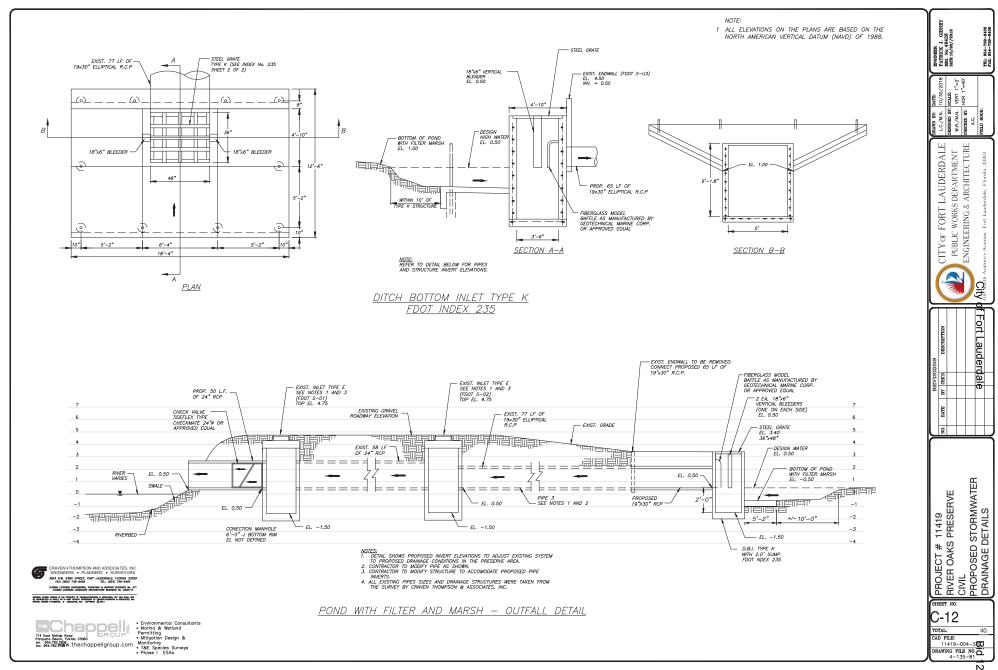
NOTE: ELEVATIONS SHOWN IN NAVD88

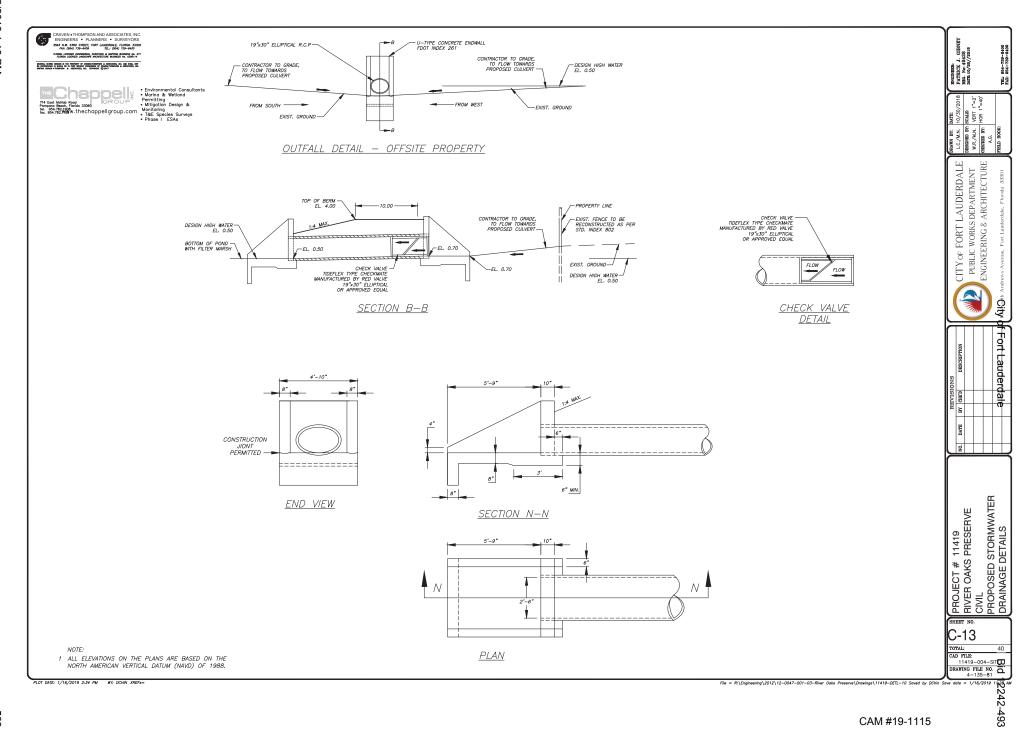
CRAVEN • THOMPSON AND ASSOCIATES, INC. ENGINEERS • PLANNERS • SURVEYORS 3963 H.M. 5390 STREET, FORT LAUDERDALE, FLORIDA 33330 FMI (864) 739-4400 TBL: (854) 739-4400

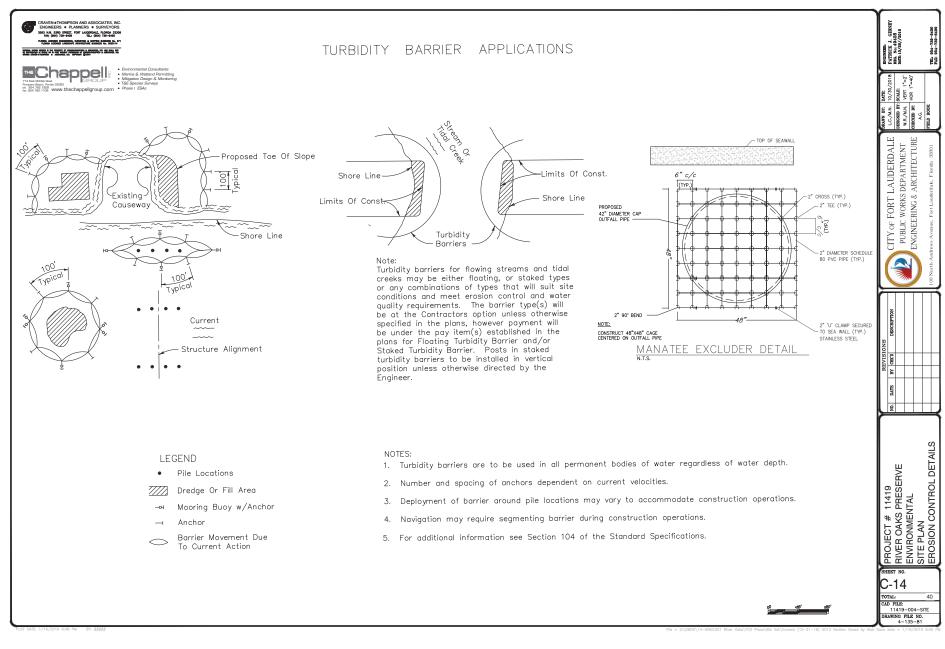
Bid 12242-493











DEMOLITION NOTES:

- THE LOCATIONS. ELEVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES SHOWN ON THE DRAWINGS HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR
- PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL VERIFY THE LOCATION, ELEVATIONS, AND DIMENSIONS OF ALL EXISTING UTILITIES AND OTHER FEATURES AFFECTING THE WORK. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES THAT MIGHT IMPACT THE WORK.
- CHAPTER 553.851 OF THE FLORIDA STATUTES REQUIRES THAT AN EXCAVATOR NOTIFY ALL UTILITIES A
 MINIMUM OF TWO (2) WORKING DAYS PRIOR TO EXCAVATING.
- 4. THE CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES BEFORE EXCAVATION.
- THE CONTRACTOR SHALL FURNISH ALL MATERIA'S, LABOR, SUPERVISION, AND FOURMENT REQUIRED FOR THE ORDERLY DEMOLITION AND REMOVAL OF EXISTING STRUCTURES, PAVEMENT AND UTILITIES AS SHOWN ON THE DRAWINGS AND DESCRIBED HEREIN.
- THE FOLLOWING LIST OF STRUCTURES REQUIRIES DEMOLITION IS INCLUDED FOR THE CONTRACTOR CONVENIENCE ONLY. THE DRAWINGS INDICATE THE SCOPE OF DEMOLITION WHERE DEMOLITION IS
- DEMOLITION AND REMOVAL OF A 5' MIN.± STRIP OF EXISTING ON-SITE ASPHALT, CONCRETE AND CURBING AROUND THE PERIMETER OF THE EXISTING STRUCTURES AND UTILITIES BEING
- REMOVAL OF EXISTING ON-SITE ABOVEGROUND AND UNDERGROUND UTILITIES, INCLUDING REMOVAL OR PLUGGING OF EXISTING UTILITIES AS SHOWN ON PLANS.
- PRIOR TO REMOVAL OF ANY UNDERGROUND TAIK AND OTHER COMPONENT, CONTRACTOR MUST COMPLETELY DRAIN THE SYSTEMS TO AN APPRIVED SANITATION TANK FOR DISPOSAL TO AN APPROVED LOCATION, AS REQUIRED BY DISPOSAL PERMANENT.
- 9. PROTECT ALL UTILITIES, UNLESS OTHERWISE NOTED.
- 10. ALL THE CONCRETE AND PAVEMENT TO BE REMOVED MUST BE SAW OUT CLEAN PRIOR TO REMOVAL
- WET DOWN MASONRY WALLS AND DEBRIS DURING DEMOLITION AND LOADING OPERATIONS TO PREVENT THE SPREAD OF DUST (AS APPLICABLE TO PROJECT).
- 12. ALL EXISTING STRUCTURES, PAVEMENTS, SLABS, FOUNDATIONS, STEPS AND OTHER ON-SITE EXISTING FEATURES INDICATED ON THE DRAWINGS TO BEREMOVED SHALL BE DEMOLISHED AND REMOVED BY THE CONTRACTOR (AS APPLICABLE TO PROJECT).



DEMOLITION SAFETY

SHALL BE NEW

IOLITION SHALL BE DONE IN A SAFE MANNER, SPECIFICALLY, THE RULES AND REGULATIONS OF CUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), THE FLORIDA DEPARTMENT OF OKTATION (FOOT) AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) SHALLBE Y OBSERVED.

PROVIDE A DEQUATE PROTECTION FOR PERSONS AND PROPERTY AT ALL TIMES. EXECUTE THE WORK IN A MANNER TO AVOID HAZARDS TO PERSONS AND PROPERTY AND PREVENT INTERFERENCE WITH THE USE OF AND ACCESS TO ADJACENT BUILDINGS. STREETS AND SIDEWALKS SHALL NOT BE UNNECESSARLY BLOCKED BY DEBRIS AND EQUIMENT.

WHERE EXISTING PAVEMENT IS TO BE REMOVED, SAW-CUT THE SURFACING LEAVING A UNIFORM AND STRAIGHT EDGE WITH MINIMUM DISTURBANCE TO THE REMAINING ADJACENT SURFACING. IF DEMOLITION RESULTS IN RAVELING OF SAW CUTSURFACE, RECUT BACK FROM THE RAVELED EDGE PRIOR TO RESTORATION.

WHERE EXISTING PAVEMENT, CURB, CURB AND 6UTTER, SIDEWALK, DRIVEWAY, OR VALLEY GUTTER IS

REMOVED FOR INLETS, MANHOLES, APPURTENANCES, FACILITIES OR STRUCTURES, SAID PAVEMENT, ETC., SHALL BE REPLACED WITH NEW PAVEMENT, ETC. CONTRACTOR SHALL PROVIDE ALL NECESSARY LABOR, MATERIALS, EQUIPMENT, TOOLS, SUPPLES, AND OTHER EQUIPMENT AS REQUIRED. CONTRACTOR MAY LIMIT SAW-CUT AND PAVEMENT REMOVAL TO ONLY THOSE AREAS WHERE IT IS REQUIRED AS SHOWN ON THE DRAWINGS. MOWERE, IF ANY DAMAGE IS INCURRED ON ANY OF THE SURROUNDING PAVEMENT, SIDEMAL, BUILDINGS, UTILITIES, ETC., THEN THE CONTRACTOR SHALL BE RESPONSIBLE FOR IT'S REMOVAL AND REPLACEMENT, REPLACEMENT PAVEMENT, SIDEWALK, ETC.,

3. BUILDING MATERIALS TO BE REMOVED SHALL BETESTED FOR ASBESTOS AND LEAD PAINT.

IF PETROLEUM PRODUCTS ARE FOUND WHILE DEMOLISHING, DISPOSE OF PETROLEUM WASTE IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.

GNRL 009

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ANY REQUIRED PERMITS FOR DEMOLITION FROM RESPONSIBLE REGULATORY AGENCIES WHILE FULLY ACKNOWLEDGING AND COMPLYING WITH ALL REQUIREMENTS PRIOR TO COMMENCING DEMOLITION WORK.
- IT IS THE CONTRACTOR'S SOLE RESPONSIBILITYTO DETERMINE THE EXTENT OF DEMOLITION, RECYCLING OR REUSE REQUIRED TO PERFORM THE CONTRACT WORK FOR THIS PROJECT. THE CONTRACTOR SHALL CONDUCT SITE VISITS AND SHALL EXAMINE ALL THE INFORMATION WITHIN THESE DOCUMENTS. ALL DISORREPANCIES AND/OR OMISSIONS SHALL BE REPOUGHT TO THE ATTENTION OF THE
- THE CONTRACTOR SHALL COORDINATE WITH OWNER PRIOR TO COMMENCEMENT OF ANY WORK. ACTUAL REMOVAL ANDOR RELOCATION OF ALL EXISTING LANGSCAPING WITHIN DEMOLITION AREAS TO BE COMBUTED BY A LANGSCAPE CONTRACTOR IT SHE RESPONSIBILITY OF THE STREWORK DEMOLITION CONTRACTOR TO COORDINATE DEBOLITION ACTIVITIES WITH THE LANGSCAPE CONTRACTOR. THE CONTRACTOR IS RESPONSIBILITY OF REMOVING ADD PRESERVING TREES AS IT OR ANY OTHER APPLICABLE PERMIT TO REMOVE, RELOCATE, OR PRESERVE EXISTING
- ANY TREES FOR REMOVAL FOUND TO BE GREATER THAN OR EQUAL TO THREE (3) INCHES IN DIAMETER AT BREAST HEIGHT (IDHH) SHALL REQUIRE A PERMIT WITH THE BROWARD COUNTY ENVIRONMENTAL PROTECTION AND GROWTH MANAGEMENT DEPARTMENT (BCEPGMD).
- GNRL 009

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS SHEET 5

13. ALL EXISTING SEWERS, PIPING AND UTILITIES SHOWN ON THE DRAWINGS ARE NOT TO BE INTERPRETED

AS THE EXACT LOCATION, OR AS THE ONLY OBSTACLES THAT MAY OCCUR ON THE SITE. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND PROCEED WITH CAUTION AROUND ANY ANTICIPATED FEATURES. GIVE NOTICE TO ALL UTILITY COMPANIES REGARDING DESTRUCTION AND REMOVAL OF ALL SERVICE LINES AND CAP ALL LINES BEFORE PROCEEDING WITH THE WORK. 14. THE CONTRACTOR SHALL COORDINATE WITH THE APPROPRIATE UTILITY COMPANY PRIOR TO REMOVA

- OR RELOCATION OF ANY ELECTRICAL, TELEPHONE, CABLE AND/OR GAS LINES. SUFFICIENT TIME SHALL BE PROVIDED FOR RELOCATION AND CLOSE COORDINATION WITH THE UTILITY COMPANY TO PROVIDE A SMOOTH TRANSITION IN UTILITY SERVICE.
- FILL FOR LOWER LEVELS OF DEMOLISHED STRUCTURES MAY INCLUDE CONCRETE OR MASONRY RUBBLE RESULTING FROM DEMOLITION, SUBJECT TO THE ENGINEERS/JARCHITECTS APPROVAL, RUBBLE SHALL PASS THROUGH A THREE-INCH RING.
- 17. REMOVE AND LEGALLY DISPOSE OF ALL OTHER RUBBISH, RUBBLE, AND DEBRIS, COMPLY WITH ALL APPLICABLE LAWS AND REGULATIONS GOVERNING DISPOSAL OF WASTES AND DEBRIS
- 18 MAINTAIN ACCESS TO SURROUNDING PROPERTIES AND BUILDINGS
- 19. PRIOR TO DEMOLITION OCCURRING ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED.
- 20. ALL TRAFFIC SIGNS OUTSIDE THE DEMOLITION AREA ARE TO REMAIN UNLESS OTHERWISE SPECIFIED.
- 21. ANY MUCK ENCOUNTERED UNDER PROPOSED STRUCTURES SHALL BE REMOVED TO FIVE-FEET BEYOND THE FOOTPRINT OF THAT STRUCTURE. BACKFILL WITH APPROVED FILL MATERIAL SATISFYING ALL COMPACTION REQUIREMENTS.
- 22. ALL EXISTING UTILITIES WITHIN THE DEMOLITION SITE AREA SHALL BE ADJUSTED, REMOVED OF RELOCATED AT THE CONTRACTOR'S EXPENSE, WORK SHALL BE COORDINATED BY THE CONTRACTOR DIRECTLY WITH THE APPROPRIATE UTILITY COMPANY, ALL EXPENSES SHALL BE INCLUDED IN THE CONTRACTOR'S BID.
- ALL TRASH, DEBRIS AND OTHER MATERIAL REMOVED FROM THE SITE SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS GNRL 009

PRE-DEMOLITION RESPONSIBILITIES:

- UPON RECEIPT OF NOTICE OF AWARD, THE CONTRACTOR SHALL ARRANGE A PRE-DEMOLITION CONFERENCE TO INCLUDE ALL INVOLVED GOVERNMENTAL AGENCIES, ALL AFFECTED UTILITY OWNERS, THE OWNER, THE ENGINEER AND THE CONTRACTOR.
- PRIOR TO DEMOLITION, CONTRACTOR TO PROVIDE FOR THE OWNER A LISTING OF THE FACILITIES THE CONTRACTOR SHALL UTILIZE FOR RECYCLING AND DISPOSAL OF SPECIFIC MATERIALS. CONTRACTOR TO INDICATE THE MATERIALS INTENDED FOR DISPOSAL
- PRIOR TO DEMOLITION. CONTRACTOR TO PROVIDE THE OWNER SKETCHES SHOWING PROPOSED HAULING ROUTES TO RECYCLING AND DISPOSAL FACILITIES FOR APPROVAL
- EXISTING UTILITY LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATE. THE CITY AND THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF EXISTING UTILITIES SHOWN OR FOR ANY EXISTING UTILITIES NOT SHOWN.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ANY EXISTING UTILITIES FOR WHICH IT FAILS TO REQUEST LOCATIONS FROM THE UTILITY OWNER. THE CONTRACTOR IS RESPONSIBLE AS WELL FOR DAMAGE TO ANY EXISTING UTILITIES WHICH ARE PROPERLY LOCATED.
- THE LOCATIONS OF EXISTING UTILITIES AND STORM DRAINAGE SHOWN ON THE PLANS HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR, ENGINEER ASSUMES NO RESPONSIBILITY FOR INACCURACY.
- PRIOR TO THE START OF ANY DEMOLITION ACTIVITY. THE CONTRACTOR SHALL FIELD LOCATE EXISTING UNDERGROUND UTILITIES WITH THE UTILITY OWNERS.
- 10. THE CONTRACTOR IS RESPONSIBLE FOR RELOCATIONS OF THE VARIOUS EXISTING UTILITIES WITH THE UTILITY OWNERS, WHICH SHALL BE DONE IN A THIELY MANNER TO MINIMIZE IMPACT ON DEMOLITION SCHEDULE. ANY DELAY CAUSED BY THE CONTRACTOR BY THE RELOCATION OF UTILITIES SHALL BE INCIDENTAL TO THE CONTRACT AND NO EXTRA COMPENSATION WILL BE ALLOWED.
- SUNSHINE STATE ONE CALL OF FLORIDA, INC. REQUIRES THE CONTRACTOR TO CALL TWO (2) FULL BUSINESS DAYS (BUTN ONT MORE THAN FIVE) PROIC TO BREAKING GROUND TO FIND OUT WHERE BURIED FACILITIES DAYS (BLECTRICAL, GAS, TELEPHONE, CABLE, WATER) ARE LOCATED.

CITY OF FORT LAUDERDALI
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS GNRL 009 CRAVEN • THOMPSON AND ASSOCIATES, INC. ENGINEERS • PLANNERS • SURVEYORS 363 N.W. 53RD SIREET, FOR LAUDERDALE, FLORIDA 33309 FXX: (264) 738-6400





PLONDA LICENSED ENGINEEPHNI, SURVEYING & MAPPING BLOINESS No. 271 PLONDA LICENSED LINGSCHIP MICHIECTURE BLOINESS No. 0000114 BATERIA, STORM RETEON IS THE PROPERTY OF CHARGE-STORM A ASSOCIATES, INC. AND SHALL REST BE REPRODUCED IN BROLL ON IN HIRT STREAM PRIMERSION OF CHARGE PROPERTY IS ASSOCIATED, INC. WINTEN CHARGE **TROMPORE A ASSOCIATED, INC. COPPRISED (\$) 2677







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NO.

PROJECT # 11419
RIVER OAKS
STORMWATER PRESERVE
CITY STANDARD DETAILS
DEMOLTION NOTES - SHEET

SHEET NO IDT-1

TOTAL:

11419-004-SITED

DRAWING FILE NO. 4-135-81 File = R:\Engineering\2012\12-0047-001-03-River Oaks Preserve\Drawings\11419-DT01 Saved by DChi

DEMOLITION EROSION AND SEDIMENT CONTROL NOTES

- THE SCHEDULING, SCOLENCING AND CONTROL MEASURES, WHICH ARE OUTLINED HEREIN, ARE SUBJECT TO THE FINAL DEFINITION BY THE CONTRACTOR WHO SHALL BE SELECTED TO PERFORM THE WORK AND SHALL BE RESPOSSIBLE FOR IMPLEMENTATION AND COMPLIANCE.
- PRIOR TO DEMOLITION, THE CONTRACTOR SHALL BE REQUIRED TO SUBMIT A DEMOLITION SCHEDULE DEPORTING EACH PHASE OF THE WORK. THE CONTRACTOR SHALL ALSO BE REQUIRED TO SUBMIT AN REOSIGNA MOS DEMONET CONTROL TO, ALE NECOUPASSION THE PERIORIDATE AND THE REQUIREMENTS DESCRIBED HEREIN AND A SCHEDULE FOR THEIR IMPLEMENTATION AND MAINTENANCE FOR THE PROJECT DURN'S T
- DURING DEMOLITION, THE CONTRACTOR SHALL TAKE ALL REASONABLE MEASURES TO ENSURE AGAINST POLLUTING, SILTATION OR DISTURBANCE TO SUCH AN EXTENT AS TO CAUSE AN INCREASE IN TURBIDITY TO THE EXISTING BRAINAGE SYSTEMS AND ADJACENT WATER BODIES AND WETLANDS, IN COMPLIANCE WITH ALL PERMIT REQUIREMENTS RELATED TO SUCH MEASURES.
- METHODS MAY INCLUDE TEMPORARY EROSION AND SEDIMENT CONTROLS SUCH AS SEDIMENT BASINS, SEDIMENT CHECKS, SILT BARRIERS, SILT SCREENS, TURBIDITY BARRIERS OR THE BEST MANAGEMENT PRACTICES AVAILABLE TO THE INDUSTRY.
- EROSION AND SEDIMENT CONTROL INSTALLATIONS SHALL BE MAINTAINED THROUGHOUT THE DEMOLITION PERIOD AND UNTIL NEW VEGETATIVE GROWTH HAS BEEN ESTABLISHED.
- THROUGHOUT THE DEMOLITION PERIOD, THE CONTRACTOR SHALL INSPECT DAILY THE EROSION AND SEDIMENT CONTROL INSTALLATIONS FOR FAILURE OR SIGNS OF FAILURE OR MALFLUNCTION. REPAIR OR REPLACE THE EROSION AND SEDIMENT CONTROL INSTALLATIONS IMMEDIATELY UPON DISCOVERY OF FAILURE OR MALFUNCTION.
- INLETS AND CATCH BASINS, EXISTING ON-SITE AND OFF-SITE, SHALL BE PROTECTED FROM SEDIMENT
- DEWATERING ACTIVITIES SHALL NOT RESULT IN ANY DISCHARGE OF TURBID WATER FROM THE PROJECT SITE WITHOUT PROPER EROSION AND SEDIMENT CONTROL AND APPROVAL FROM ENGINEER.
- 10. PHASING OF EROSION CONTROL DEMOLITION SHALL BE RECOMMENDED AS FOLLOWS
- 10.1. PLACEMENT OF PERIMETER PROTECTIVE MEASURES (SILT FENCE, HAY BALES, TURBIDITY BARRIERS, ETC.) AROUND ON-SITE FEATURES TO BE RETAINED, AT POINTS OF OFF-SITE DISCHARGE AND AROUND WORK AREAS TO BE EXCAVATED OR FILLED.
- 10.2. REROUTE RUNOFF FROM AREAS OUTSIDE OF THE DEMOLITION AREA TO MINIMIZE FLOW THROUGH AREAS TO BE DISTURBED BY DEMOLITION BERMS, SWALES AND OTHER MEANS USED FOR SUCH CONVEYANCE SHALL BE VEGETATED AND MEASURES TAKEN TO PROVIDE PROTECTION UNTIL STABLIZATION OCCURS (AS APPLICABLE "O THE PROJECT).

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS DEMOLITION NOTES SHEET 6

SHEET 4

GNRL 009

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13. PRIOR TO CONSTRUCTION, A SILT FENCE IN ACCORDANCE WITH CITY'S DETAIL SHALL BE ERECTED AS NOTED ON PLANS, ALL PROPOSED CATCH BASINS SHALL HAVE THEIR INLETS PROTECTED BY THE INSTALLATION OF FILTER INET INSERTS INTO THE FRAME AND GRATE. SILT PROCESS AND PILTER INLET INSERTS SHALL REMAIN IN PLACE DURING THE EVTIRE DURATION OF CONSTRUCTION.

14. CONTRACTOR SHALL BRACE ALL EXISTING LANDSCAPING TO REMAIN PRIOR TO BEGINNING ANY WORK AND SHALL ENSURE ITS STABILIZATION THROUGHOUT THE ENTIRE CONSTRUCTION PROCESS, EXISTING SOD DISTURBED BY CONSTRUCTION THAT IS NOT AFFECTED BY PROPOSED GRADING SHALL BE RESTORED TO NEW CONDITION UPON COMPLETION OF CONSTRUCTION, SODIED SUPES STEEPER THAN FOUR HORIZONTAL TO ONE VERTICAL SHALL BE PEGGED.

15. ALL WASTE GENERATED FROM THE CONSTRUCTION SHALL BE DISCARDED IN ACCORDANCE WITH ALL APPLICABLE STATE, LOCAL AND FEDERAL REGULATIONS. CONTRACTOR SHALL OBTAIN ALL APPLICABLE CODES AND BECOME FAMILIAR WITH STATE, LOCAL AND FEDERAL REGULATIONS PRIOR TO BEGINNING

. TO ENSURE THAT OFF-SITE VEHICLE TRACKING OF SEDIMENTS AND THE GENERATION OF DUST IS MINIMIZED, CONTRACTOR SHALL PUT INTO PRACTICE THE METHODS DETAILED IN FLORIDA DEPARTMENT OF TRANSPORTATION NIDEX: 106 (2010 DESIGN STANDARDS) AND BMPS.

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS

IMPLEMENT A WASTE MANAGEMENT PLAN FOR APPROVAL BY THE OWNER. PROVIDE HANDLING, CONTAINERS, STORAGE, SIGNAGE, TRANSPORTATION AND OTHER ITEMS AS NEEDED TO IMPLEMENT THE WASTE MANAGEMENT PLAN DURING THE ENTIRE DURATION OF THE CONTRACT.

DESIGNATE A WASTE MANAGEMENT COORDINATOR TO BE RESPONSIBLE FOR IMPLEMENTING, MONITORING AND REPORTING STATUS OF WASTE MANAGEMENT WORK PLAN. COORDINATOR SHALL BE PRESENT AT PROJECT SITE FULL-TIME FOR DURITION OF PROJECT.

TRAIN WORKERS, SUBCONTRACTORS AND SUPPLIERS ON PROPER WASTE MANAGEMENT PROCEDURES, AS APPROPRIATE FOR THE WORK AT THE PROJECT SITE.

DISTRIBUTE A WASTE MANAGEMENT PLAN BEFORE WORK BEGINS. REVIEW PLAN PROCEDURES AND LOCATION ESTABLISHED FOR SALVAGE, RECYCLING AND DISPOSAL.

SEPARATE RECYCLABLE WASTE FROM OTHER WASTE MATERIALS, TRASH AND DEBRIS. SEPARATE RECYCLABLE WASTE BY TYPE AT THE PROJECT SITE TO THE MAXIMUM EXTENT PRACTICAL.

PROVIDE APPROPRIATELY MARKED CONTAINERS OR BINS FOR CONTROLLING RECYCLABLE WASTE UNTIL THEY ARE REMOVED FROM THE PROJECT SITE. INCLUDE A LIST OF ACCEPTABLE AND UNACCEPTABLE MATERIALS AT EACH CONTAINER AND BIN.

INSPECT CONTAINERS AND BINS FOR CONTAMINATION AND REMOVE CONTAMINATED MATERIALS IF

STOCKPILE PROCESSED MATERIALS ON-SITE WITHOUT INTERMIXING WITH OTHER MATERIALS. PLACE, GRADE AND SHAPE STOCKPILES TO DRAIN SURFACE WATER. COVER TO PREVENT WINDBLOWN DUST.

STOCKPILE MATERIALS AWAY FROM DEMOLITION AREA. DO NOT STORE WITHIN DRIP LINE OF REMAINING

STORE COMPONENTS OFF THE GROUND AND PROTECT FROM THE WEATHER.

REMOVE RECYCLABLE WASTE OFF THE OWNER'S PROPERTY AND TRANSPORT TO RECYCLING RECEIVER OR PROCESSOR.

ASPHALTIC CONCRETE PAVING: BREAK UP AND TRANSPORT PAVING TO ASPHALT RECYCLING FACILITY

CONCRETE: REMOVE REINFORCEMENT AND OTHER METALS FROM CONCRETE AND SORT WITH OTHER METALS.

. MASONRY: MASONRY WASTE SHALL INCLUDE WHOLE OR BROKEN BRICK AND CONCRETE MASONRY UNITS. WHOLE MASONRY UNITS SHALL BE CLEANED AND REUSED OR DONATED. BROKEN MASONRY SHALL BE CRUSHED AND USED SHALL FOR GYSTER AREAS, REMOVE METAL, REINFORCEMENT, ANCHORS AND TIES FROM MASONRY AND SORTWITH OTHER METALS.

DEMOLITION NOTES SHEET 10

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18. AT ANY TIME DURING CONSTRUCTION THAT THE SILT FENCING IS DISTURBED, THE SILT FENCING SHALL BE RESTORED TO ITS ORIGINAL STATE WITHIN 24 HOURS. AT NO TIME DURING CONSTRUCTION SHALL WORK BE PERFORMED WITHOUT THE INTEGRITY OF THE SILT FENCING SECURED.

9. A QUALIFIED INSPECTOR, PROVIDED BY THE CONTRACTOR, SHALL INSPECT ALL POINTS OF DISCHARGE A DOUBLE DI INSPECTION, PROVIDED BY THE COST INCLINE, SMALL INSPECTIALL DIVISION SO POLISIONARE. OLD ENDIA DIVISION OF THE STATE OF THE RED OF A STORM THAT ON INCRESS OR GREATER INSPECTION INCLIDES THE WRITTEN RECORDING OF THE CONDITION OF ALL DISCHARGE POINTS. INTEGRITY OF SILT FECHING, DAILY DUST CONTROL MESSURES, VEHICULAR THAT FRAPPIC AND CONSTRUCTION MATERIAL STORAGE AND DISPIGAL. WRITTEN RECORD OF ALL INSPECTIONS SHALL BE STORED BY THE CONTRACTOR.

20. THE INSPECTION REPORT SHALL INCLUDE, BUT 6 NOT LIMITED TO, THE FOLLOWING INFORMATION: NAME AND QUALIFICATION OF PERSONNEL MAKING THE INSPECTION, DATE OF INSPECTION, RAINFALL DATE, MAJOR OBSERVATIONS RELATING TO THE SWPP, ACTIONS TAKEN FO CONTRACTOR AND ANY INCIDENT OF NONCOMPLIANCE WITH PERMIT, WHERE AN INSPECTION DOES NOT IDENTIFY ANY INCIDENT OF NONCOMPLIANCE, THE REPORT SHALL CONTAINA CERTIFICATION THAT THE FACILITY IS IN COMPLIANCE WITH THE SWPPP AND THE PERMIT.

21. THE CONTRACTOR SHALL RETAIN A COPY OF THE SWPPP AND ALL REPORTS, RECORDS AND DUCUMENTATION REQUIRED BY THE PERMIT AT THE CONSTRUCTION STIE, OR AN APPROPRIATE ALTERNATIVE LOCATION AS SPECIFIED IN THE NOTICE OF INTENT, FROM THE DATE OF PROJECT INITIATION TO THE DATE OF FINAL STABILIZATION.

22. THE CONTRACTOR SHALL RETAIN THE SWPPP, NOI AND ALL RECORDS ASSOCIATED THEREWITH FOR A PERIOD OF AT LEAST THREE (3) YEARS FROM THE DATE THAT THE SITE IS FINALLY STABILIZED.

23. SEE LANDSCAPE PLANS FOR TREE REMOVAL AND LANDSCAPE DEMOLITION

24. CONTRACTOR SHALL COORDINATE THROUGH CIEY'S CONSTRUCTION DIVISION AND CITY'S PARKS DEPARTMENT ON HOW TO STOCK AND RE-USE EXCAVATED SOIL FROM SITE (AS APPLICABLE TO THE PROJECT).

CITY OF FORT LAUDERDAL PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS

11. METALS: METALS FROM REINFORCED CONCRETE, REINFORCED MASONRY, STRUCTURAL STEE MEMBERS, FLASHING AND SHEET METAL, CONDUIT PIPE, SIDING, PIPING AND WIRING SHALL BE

12. STRUCTURAL STEEL: STACK MEMBERS ACCORDING TO THEIR SIZE, TYPE AND LENGTH

13. NUTS AND BOLTS: REMOVE BOLTS, NUTS, WASHERS AND OTHER ROUGH HARDWARE

 SITE-CLEARING WASTE SHALL BE RECYCLED BY CHIPPING BRUSH, BRANCHES AND TREES, THEN HAUL TO WOOD RECYCLING CENTER. GENERAL: EXCEPT FOR ITEMS OR MATERIALS TO BE SALVAGED, RECYCLED OR OTHERWISE REUSED, REMOVE WASTE MATERIALS FROM PROJECT SITE AND LEGALLY DISPOSE OF THEM IN A LANDFILL OR OTHER PREMITTED DISPOSAL FACILITY. EXCEPT AS OTHERWISE SPECIFIED, DO NOT ALLOW WASTE MATERIALS THAT ARE TO BE DISPOSED OF TO ACCUMULATE ON-SITE. REMOVE AND TRANSPORT DEBRIS IN A MANNERTHAT SHALL PREVENT SPILLAGE ON ADJACENT SURFACES AND AREAS. DISPOSAL: TRANSPORT WASTE MATERIALS OFF THE OWNER'S PROPERTY AND LEGALLY DISPOSE OF THEM. DEMOLITION NOTES SHEET 11

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INTERRUPTION OF EXISTING UTILITIES

ANY DEMOLITION WORK THAT REQUIRES INTERRUPTION OF SERVICE TO ANY CUSTOMER SHALL BE DONE SO WITH A MINIMUM OF SEVENTY-TWO (72) HOUR WRITTEN NOTICE TO, AND WRITTEN APPROVAL BY, THE APPROPRIATE UTILITY COMPANY.

THE CONTRACTOR SHALL ARRANGE A MEETING WITH THE LOCAL JURISDICTIONAL AGENCIES AND OTHER GOVERNING AGENCIES, AND OTHER AFFECTED WILLTIES PRIOR TO SCHEDULING THE SHUT DOWN TO ASSESS THE SCOPE OF WORK.

ALL SYSTEM SHUT DOWNS SHALL BE SCHEDULED BY THE CONTRACTOR AT SUCH TIME THAT SYSTEM DEMAND IS LOW. THIS CENERALLY REQUIRES NISHT TIME WORK BY THE CONTRACTOR AND REQUIRES FULL-TIME INSPECTION BY A REPRESENTATIVE OF THE UTILITY ALL COST FOR OVERTIME WORK BY THE REPRESENTATIVE OF THE UTILITY SHALL BE BORNE BY THE CONTRACTOR.

EACH CUSTOMER AFFECTED BY THE SHUT-DOWN SHALL BE PROVIDED, MINIMUM, FORTY-EIGHT (48) HOURS WRITTEN NOTIFICATION BY THE CONTRACTOR.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE OR SUPPLY TEMPORARY WATER SERVICE, SANITARY FACILITIES AND ELECTRICITY TO ITS EMPLOYEES AND SUSCONTRACTORS FOR THEIR USE DURING DEMOLITION.

MAINTENANCE OF TRAFFIC (MOT) IN THE PUBLICRIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND FLORIDA DEPARTMENT OF TRANSPORTATION STANDARDS.

ALL OPEN TRENCHES AND HOLES ADJACENT TOROADWAYS OR WALKWAYS SHALL BE PROPERLY MARKED AND BARRICADED TO ASSURE THE SAFETY OF BOTH VEHICULAR AND PEDESTRIAN TRAFFIC.

NO TRENCHES OR HOLES NEAR WALKWAYS OR N ROADWAYS OR THEIR SHOULDERS ARE TO BE LEFT OPEN DURING NIGHTITME HOURS WITHOUT EXPRESS WRITTEN PERMISSION OF THE CITY OR RESPECTIVE GOVERNING AGENCY.

CITY OF FORT LAUDERDAL PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS GNRL 009 DEMOLITION NOTES SHEET 9

CRAVEN • THOMPSON AND ASSOCIATES, INC. ENGINEERS • PLANNERS • SURVEYORS 363 N.W. 53RD SIREET, FOR LAUDERDALE, FLORIDA 33309 FXX: (264) 738-6400 PLONDA LICENSED ENGINEEPHNI, SURVEYING & MAPPING BLOINESS No. 271 PLONDA LICENSED LINGSCHIP MICHIECTURE BLOINESS No. 0000114

Fig. 2 for Motion Real Property States 33500 Property States Property States 33500 Property States 33500 Property States 33500 Property States States Property States Property States Property States Property I EAR

BATERIA, STORM RETEON IS THE PROPERTY OF CHARGE-STORM A ASSOCIATES, INC. AND SHALL REST BE REPRODUCED IN BROLL ON IN HIRT STREAM PRIMERSION OF CHARGE PROPERTY IS ASSOCIATED, INC. WINTEN CHARGE **TROMPORE A ASSOCIATED, INC. COPPRISED (\$) 2677

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CITY OF FORT LAUDERDALE

f Fort Laude rda NO.

PROJECT # 11419
RIVER OAKS
STORMWATER PRESERVE
CITY STANDARD DETAILS
DEMOLTION NOTES - SHEET

SHEET NO DT-2 TOTAL:

CAD FILE: 11419-004-SITED DRAWING FILE NO. 4-135-81

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TRAFFIC CONTROL PLAN NOTES:

- TEASTFILE CONTROLL PLAN NOTES:

 THE TRAFFIC CONTROL PLANS FOR THE PROJECT SHALL COMPLY WITH THE LATIST EDITION OF THE FLORIDAD EPARTMENT OF TRANSPORTATION ROADWAY AND TRAFFIC DESIGN STANDARDS, NEXT NO 60-666. MUTCH OAN DITE STANDARD SPECEMANDE. THE CONTRACTOR'S REPONDES TIME TO MAKE THE TOTAL PLANS THE PROJECT OF THE PR
- THE CONTRACTOR SHALL MAINTAIN PROPER OPERATION OF ALL TRAFFIC SIGNAL LOOP ASSEMBLIES THE CONTROLOGY STRUCTURE IN PROPER OPERAL HOURS OF ALL TROPPIC SHOWLD COURSE MALE COURSES AND LOOP DETECTIORS WITHIN THE PROJECT LIMITS. THE CONTRACTOR SHALL CORRECT ALL LOOP ASSEMBLY/DETECTOR MALFUNCTIONS WITHIN 24 HOURS OF NOTIFICATION OF SUCH MALFUNCTIONS BY THE REGISTER.
- THE AGENCY RESPONSIBLE FOR MAINTENANCE OF THE TRAFFIC SIGNALS AND RELATED EQUIPMENT IS BROWARD COUNTY TRAFFIC ENGINEERING.
- A REGULATORY SPEED OF 25 MPH SHALL BE POSTED WITHIN THE LIMITS OF THE WORK ZONE
- EXISTING SIGNS AND PAVEMENT MARKINGS THAT CONFLICT WITH CONSTRUCTION SIGNS AND MARKINGS SHALL BE REMOVED DURING CONSTRUCTION. ALL EXISTING SIGNS THAT ARE REMOVED SHALL BE STOKPLED IN A SECURE PLACE AND REINSTALLED AFTER CONSTRUCTION. REMOVE AND REPLACE ANY GROUND MOUNT SIGN BY USE OF INDEX NO. 611.
- THE CONTRACTOR SHALL MAINTAIN EXISTING DRAINAGE PATTERNS AND PREVENT ADVERSE FLOODING OF THE TRAVEL LANES DURING CONSTRUCTION.
- THE CONTRACTOR SHALL OBTAIN WRITTEN AUTHORIZATION FROM THE CITY OF FORT LAUDERDALE FOR ANY AND ALL CONSTRUCTION ACTIVITIES TO BE PERFORMED AT NIGHT. NO LANE CLOSURE SHALL DE ALLOWED BETWEEN THE HOURS O'S 60.04 MT O'S 60.04 AND 4.00 PM TO 7:00 PM, MONDAY THROUGH FROMY UNLESS APPROVED BY THE ROWNEER.
- THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY COMPANY TWO (2) BUSINESS DAYS IN ADVANCE OF ANY EXCAVATION INVOLVING ITS UTILITIES SO THAT A COMPANY EPPRESENTATIVE CAN BE PRESENT THE CAN ILL LOCATION OF THE UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE ONLY. THE EXACT LOCATION SHALL BE DETERMINED BY THE CONTRACTOR DURING CONSTRUCTION. SEE SPECS FOR USIT OF UTILITY COMPANIES.
- TRAFFIC CONTROL ON ALL COUNTY RIGHTS-OF-WAY SHALL MEET THE ADDITIONAL REQUIREMENTS OF THE BROWARD COUNTY ENGINEERING DEPARTMENT.
- 10. CONTRACTOR SHALL PREPARE AND SUBMIT MAINTENANCE OF TRAFFIC PLAN (MOT) WHERE REQUIRED BY FEDERAL, STATE, COUNTY, ORLOCAL AGENCIES HAVING JURISDICTION. CONTRACTOR SHALL OBTAIN ALL REQUIRED APPROVALS AND PERMITS ASSOCIATED WITH THE MOTS. ALL MOTS TO BE ATS CERTIFIED.
- THE CONTRACTOR SHALL ALSO COORDINATE THE CONSTRUCTION SCHEDULE WITH FDOT, BROWARD COUNTY AND THE CITY OF FORT LAUDERDALE TO AVOID LANE CLOSURES WHICH WOULD ADVERSELY AFFECT TRAFFIC DURING RUSH HOUR



DRAINAGE NOTES:

- GE PIPE SHALL BE HIGH DENSITY POLYETHYLENE (HDPE) OR REINFORCED CONCRETE (RCP,, E OF RCP PIPE FOR PUBLIC ROADWAY CROSSINGS IS PREFERRED.
- 2. CATCH BASINS, INLETS AND JUNCTION BOXES SHALL NOT BE INSTALLED IN DRIVEWAYS.
- PRIOR TO BACKFILLING EXFILTRATION TRENCHES, DRAINAGE INLETS OR MANHOLES, THE CONTRACTOR SHALL NOTIFY THE ENGINEERING INSPECTOR FOR AN INSPECTION.
- 4. DRAINAGE STRUCTURES SHALL BE CLEANED PRIOR TO ACCEPTANCE BY CITY.
- ALL PIPES SHALL BE LAID IN DRY TRENCH. ALL MUCK OR UNSUITABLE MATERIALS IN TRENCHES, INLETS OR MANHOLES SHALL BE REMOVED AND BACKFILLED WITH SELECTED MATERIAL APPROVED BY THE ENGINEER.
- MINIMUM COVER FOR HDPE PIPE UNDER ASPIALT SHALL BE 24-INCH COMPACTED LIMEROCK BASE. MINIMUM COVER FOR PIPE UNDER GRASS SHALL BE 18" COMPACTED SUBGRADE.
- THE CONTRACTOR SHALL MAINTAIN EXISTING DRAINAGE PATTERNS AND PREVENT ADVERSE FLOODING OF THE TRAVEL LANES DURING CONSTRUCTION.
- MAINTENANCE ACCESS SHALL BE PROVIDED ON BOTH SIDES OF EXFILTRATION TRENCHES IN THE FORM OF MANHOLES OR CATCH BASINS. THE MAXIMUM DISTANCE BETWEEN STORM STRUCTURES SHALL NOT EXCEED TREE HUNDRED (300) FEET).
- ALL EXFILTRATION SYSTEMS SHALL BE DESIGNED IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION DOCUMENT TITLED "DRAINAGE DESIGN GUIDE", LATEST EDITION.
- GEOTEXTILE MATERIALS USED IN THE CONSTRUCTION OF EXFILTRATION TRENCHES SHALL BE IN ACCORDANCE WITH THE CRITERIA OF FLORICA DEPARTMENT OF TRANSPORTATION'S DESIGN STANDARDS LATEST EDITION AND CITY OF FORT LAUDERDALE'S SPECIFICATIONS.

CITY OF FORT LAUDERDALI PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS GNRL 008 DRAINAGE NOTES

PLOT DATE: 1/16/2019 9:00 PM BY: DCHIN XREFs= .\11868DETAILS

FDOT GENERAL NOTES:

- ALL MATERIALS AND CONSTRUCTION WITHIN THE FDOT RIGHT-OF-WAY SHALL CONFORM TO FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS (2010 EDITION), STANDARD SPECIFICATIONS (2010 EDITION) AND THE SUPPLEMENTS THERETO.
- THE APPLICANTS ENGINEER RESPONSIBLE FOR CONSTRUCTION INSPECTION SHALL INSURE THAT THE MAINTENANCE OF TRAFFIC PLAN (MOT) FOR THE PROJECT IS IN ACCORDANCE WITH THE APPLICABLE FOR DIDEX DAMBER (OS SERIES) AND THIS DOCUMENT. THE MAINLA, ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (D.S. DEPARTMENT OF TRANSPORTATION, PHWA).
- AT THE END OF EACH WORK PERIOD, ANY DROP-OFF IN THE AREA ADJACENT TO THE TRAVEL WAY OF THE STATE ROAD SHALL BE BACKFILLED IN ACCORDANCE WITH STANDARD INDEX 600 OR SHALL BE OTHERWISE PROTECTED WITH TEMPORAFY BARRIER WALL AT THE CONTRACTOR'S EXPENSE.
- IF THE PERMITTED WORK IS ON A ROADWAY THAT HAS BEEN SELECTED AS A HURRICANE OR DISASTER EVACUATION ROUTE. THE APPLICAYT, AT THE PRE-CONSTRUCTION CONFERENCE IS REQUIRED TO PRESENT, AS PART OF THE WORK PLAN, AN EMERGENCY FUNCTIONAL RESTORATION PLAN TO ADDRESS EVENTUALITIES SUCH AS HURRICANES.
- THE CONTRACTOR MUST CALL THE APPROPRATE COUNTY TRAFFIC ENGINEERING DIVISION, HAVING JURISDICTION OVER THE PROJECT A' LEAST 48 HOURS, BEFORE ANY EXCAVATION WITHIN THE FOOT ROAT OF HAVY TO DETERMINE THE LOCATION OF THE EXISTING TRAFFIC SIGNAL INTERCONNECT CABLE.
- THE LOCATION OF EXISTING UTILITIES SHOW! IS APPROXIMATE ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION DURING CONSTRUCTION, RELOCATION OF UTILITIES SHALL BE COORDINATED WITH UTILITY COMPANIES AFER IDENTIFICATION OF CONFLICT BY CONTRACTOR. CONTRACTOR WILL NOTIFY ENGINEER IN ADVANCE BEFORE ANY RELOCATION.
- BEFORE PERMIT APPROVAL AND CONSTRUCTION OF THIS PROJECT, THE APPLICANT MUST CONTACT THE FLORIDA DEPARTMENT OF TRANSPORTATION LOCAL MAINTENANCE OFFICE TO SOFEDULE A PRE-CONSTRUCTION MEETING. HE TELEPHON HE TELEPHON WINDERS IN SEY-76-450 OR 1-800-300-208. THE APPLICANT AT THE EARLIST CONVENIENT TIME SHALL NOTIFY IN WRITING ALL RIGHT-CHAVIL VIERS AFFECTED BY THE CONSTRUCTION OF THIS PROJECT.
- ALL MOT LANE CLOSURE SIGNS SHALL BE COVERED WHEN LANES ARE NOT CLOSED. NO LANES ARE TO BE CLOSED EXCEPT AT TIMES PRESCRIBED BY THE DEPARTMENT.
- 9. SODDING SHALL BE IN ACCORDANCE WITH SECTION 575.
- 10. ALL CURB CUT RAMPS MUST FACE IN THE DIRECTION OF PEDESTRIAN TRAVEL.
- SPECIFY THE ALPHANUMERIC IDENTIFICATION FOR THE CURB CUT RAMPS PER STANDARD INDEX 304. A COPY OF THE APPROPRIATE DETAIL(S)MUST BE SHOWN ON THE PLANS.
- 12. FLAGGERS MUST BE PRESENT DURING THE INGRESS AND EGRESS OF CONSTRUCTION VEHICLES TO AND FROM THE PROJECT SITE. WARRING SIGNS MUST BE ERECTED ADVISING MOTORIST OF TRUCKS ENTERING THE HIGHWAY.



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CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING DETAILS

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GREEN INFRASTRUCTURE NOTES

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BROWARD COUNTY COMMUNICATION NOTES:

- THE AGENCY RESPONSIBLE FOR MAINTENANCE OF THE TRAFFIC SIGNALS AND RELATED EQUIPMENT IS THE ADMINI TREATMENT OF THE MINISTRANCE OF THE TRAPPE SCANES AND TREATMENT OF THE TRAPPE SCANES AND TREATMENT OF THE TRAPPE TO RECOVERY OF THE TRAPPE SCANES AND THE TRAPPE TO RECOVERY OF THE TRAPPE TO RECOV FIBER OPTIC PULL BOXES WILL NEED TO BE INSTALLED. FOR A COPY OF THESE STANDARDS REFER TO THE BROWARD COUNTY WEB SITE AT WWW.EROWARD.ORG/TRAFFIC UNDER PUBLICATIONS.
- IF THERE ARE COPPER INTERCONNECT CABLES WITHIN YOUR PROJECT LIMITS OR WITHIN 1,500 FEET OF YOUR PROJECT LIMITS, CONTACT THE COMMUNICATIONS MANAGER $\underline{\Delta T}$ TECOMMUNICATIONS BRANCHARD.ORG OR 984-947-2748.
- IF THERE ARE FIBER OPTIC CABLE/S WITHIN YOUR PROJECT LIMITS OR WITHIN 1,500 FEET OF YOUR PROJECT LIMITS, CONTACT THE COMMUNICATIONS MANAGER AT TECOMMUNICATIONS GBROWARD.ORG OR 98-847-278.
- ALL BCTED COMMUNICATIONS CABLES/CONDJIT SHALL BE LOCATED A MINIMUM OF 48 HOURS IN ADVANCE.

BROWARD COUNTY TRAFFIC ENGINEERING DIVISION PROCEDURE FOR NOTIFICATION OF COMMUNICATION DISRUPTION

COPPER INTERCONNECT CABLE NOTIFICATION CONTACT PERSON:

CONTROL NIRROWNERLY TO AN INTERECTION MET SEE DERIVED BY A CONTRACTOR TO FREFFOR WHEN COMMUNICATIONS TO AN INTERECTION MET SEE DERIVED BY A CONTRACTOR TO FREFFOR MET AND AN INTEREST WAS AN INTEREST OF THE REPORT OF THE REPORT

FIBER OPTIC CABLE NOTIFICATION CONTACT PERSON:

WHEN COMMUNICATIONS TO AN INTERSECTION MEAT RE DISNIPTED BY A CONTRACTOR TO REFORM WORK, THE CONTRACTOR SHALL, PROVIDE TWO OR A POLYCE ONICE IN WHITE OF THE REPOWNED COUNTY TRAFFIC BRONNERS DAYS, ON THE NOTICATION SHALL BE CONVEYED VIA ELECTRONIC MAIL (SHALL) TO THE COMMUNICATIONS REPOWNED COUNTY TRAFFIC BRONNERS THE COMMUNICATIONS REPOWNED CO. REPORT CHT ON THE CONTRACT ON THE C UTILITY OWNER CONTACT PERSON:

INTERCONNECT COMMUNICATIONS CABLES - (ROBERT BLOUNT) BROWARD COUNTY TRAFFIC ENGINEERING DIVISION (BCTED) 954-947-2745



REQUIADO COLINTY COMMUNICATION NOTES

CRAVEN + THOMPSON AND ASSOCIATES, INC.
ENGINEERS + PLANNERS + SURVEYORS
3563 N.W. 5360 SIREET, FORT LAUGEBULE, FLORIDA 33309
FAIC (954) 739-6409
TIL: (954) 739-6409 PLONDA LICENSED ENGINEEPHNI, SURVEYING & MAPPING BLOINESS No. 271 PLONDA LICENSED LINGSCHIP MICHIECTURE BLOINESS No. 0000114 BATTHER, SHOWN HERCON IS THE PROPERTY OF CHARGE-SHOWN A ASSOCIATE, INC. AND SHALL RET BE EMPOREDED IN SHOLL OF IN HIST THEFAIT PRIMITIES OF CHARGE TOWNER A ASSOCIATE, INC. WHITE CHARGE - FROMETON A ASSOCIATE, INC. COMPANIES (2) 2617





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City City

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PROJECT # 11419
RIVER OAKS
STORMWATER PRESERVE
CITY STANDARD DETAILS
GENERAL NOTES

SHEET NO. DT-3 TOTAL

11419-004-SITED

DRAWING FILE NO. 4-135-81

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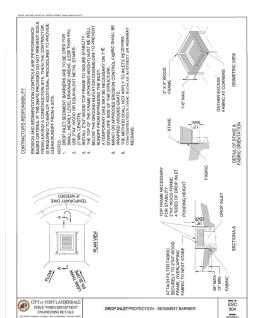
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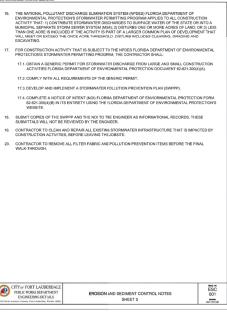
EROSION AND SEDIMENT CONTROL:

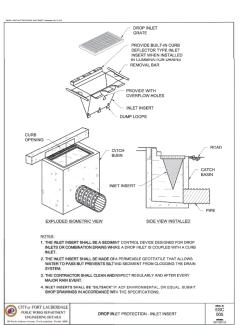
- CONTRACTOR TO EMPLOY BEST MANAGEMENT PRACTICES THROUGHOUT CONSTRUCTION IN ORDER GOVERNMENTAL ENVIRONMENTAL REGULATIONS THROUGHOUT CONSTRUCTION.
- DURING CONSTRUCTION ALL CATCH BASIN. INLETS SHALL BE PROTECTED TO PREVENT SEDIMENT AND DEBRIS FROM ENTERING THE CATCH BASIN.
- SILT FENCES SHALL BE INSTALLED AS NECESSARY TO CONTROL OR PREVENT DISCHARGE OF SEDIMENT ONTO ADJACENT UNDISTURBED AREAS, OR OFF-SITE AREAS.
- ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE STABILIZED WITHIN A REASONABLE PERIOD OF TIME TO ASSURE MINIMUM EROSION OF SOILS.
- NO LAND CLEARING OR GRADING SHALL BEGIN UNTIL ALL EROSION CONTROL MEASURES HAVE BEEN INSTALLED.
- ALL EXPOSED AREAS SHALL BE SODDED AS SPECIFIED WITHIN 30 DAYS OF FINAL GRADING
- MAINTAIN EROSION CONTROL MEASURES AFTER EACH RAIN AND AT LEAST ONCE A WEEK
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SOIL SEDIMENT FROM LEAVING THE SITE.
- 9. CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL ORDINANCES THAT APPLY.
- ADDITIONAL EROSION AND SEDIMENT CONTRCL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY CITY, COUNTY, AND STATE OF FLORIDA ON SITE INSPECTION, AT NO ADDITIONAL COST TO THE OWNER.
- LAND DISTURBING ACTIVITIES SHALL NOT COMMENCE UNTIL APPROVAL TO DO SO HAS BEEN RECEIVED BY GOVERNING AUTHORITIES.
- IF INSTALLATION OF STORM DRAINAGE SYSTEM SHOULD BE INTERRUPTED BY WEATHER OR NIGHTFALL, THE PIPE ENDS SHALL BE COVERED WITH FILTER FABRIC.
- 14. CONTRACTOR SHALL BE RESPONSIBLE TO TAKE WHATEVER MEANS NECESSARY TO ESTABLISH PERMANENT SOIL STARILIZATION.
- CONTRACTOR IS TO PROVIDE EROBON CONTROLLEGEMENTATION BARRIER IN MY BALES OR BILL TITON LIGHTWISH TO THE THE THE THE THE THE STORE SHEWER AND WISH WAYS. IN ADDITION CONTRACTOR SHALL PLACE STRAW, MILLCH OR OTHER SUITABLE MATERIAL OR ROUND IN AREAS WHERE CONSTRUCTION RELATED THATE IS TO TO EITHER MOD EXIT SITE IF IN THE OPINION OF THE ENGINEER ANDOR LOCAL AUTHORITIES OF EXCESSIVE CUMMITTIES OF EARTH ARE CONTRACTOR SHALL PLACE AND ADMINISTRATION OF THE ENGINEER ANDOR AUTHORITIES OF EARTH ARE ANDOR AUTHORITIES. CROSSION CONTROL BARRIER SHALL BE ESTABLISHED AS THE FIRST ITEM OF WORK.

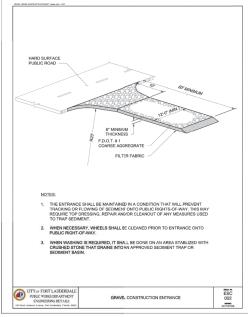
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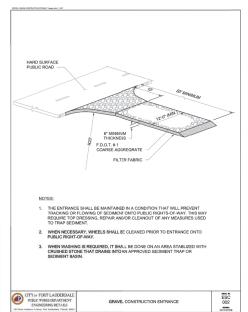


















CITY OF FORT LAUDERDALE

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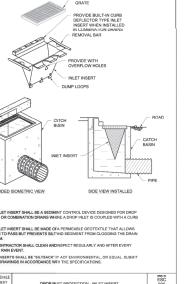
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NO.

PROJECT # 11419
RIVER OAKS
STORMWATER PRESERVE
CITY STANDARD DETAILS
EROSION CONTROL - SHEET 1

SHEET NO DT-4 TOTAL: CAD FILE: 11419-004-SITED DRAWING FILE NO. 4-135-81

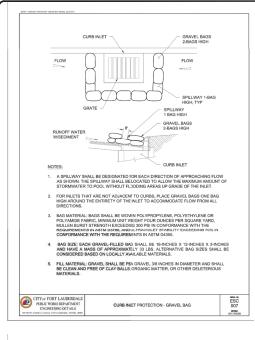


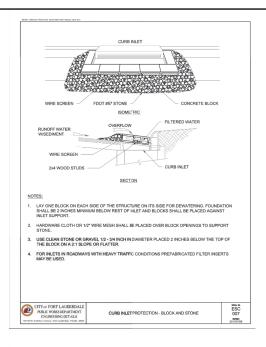
 THE CONTRACTOR SHALL REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM SURFACE AND VICINITY OF UNIT AFTER EACH RAIN EVENT. CURB INLET PROTECTION - CURB FILTER

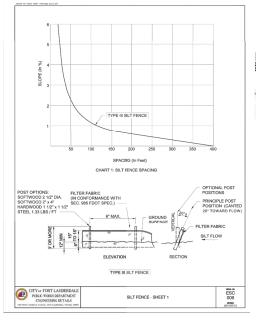
 INSTALL CURB FILTERS AT ALL INLETS WITHOUT GRATES TO KEEP SILT, SEDIMENT AND CONSTRUCTION DEBRIS OUT OF THE STORM SYSTEM THE CURB FILTER SHALL BE DANDY CUFB AS MANUFACTURED BY DANDY PRODUCTS INC., OR EQUAL. SUBMIT SHOP A SHOP DRAWING FOR THE CURB FILTERS. THE CURB FILTER SHALL FORM OF A CYLINDRICAL TUBE PLACED IN FRONT OF AND EXTENDING BEYOND THE INLET OPENING ON BOTH SIDES. THE CURB FILTER SHALL HAVE A POUCH ON THE STREET SIDE OF THE UNIT FOR STONE AGGREGATE TO HOLD THE FILTER IN PLACE.

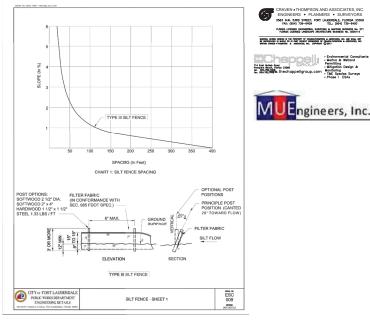
 THE CURB FILTER SHALL BE CONSTRUCTED OF A HIGH VISIBILITY ORANGE MONOFILAMENT FABRIC. 6. FILL POUCH WITH FDOT #57 STONE AGGREGATE TO A LEVEL (AT LEAST HALF-FULL) THAT WILL KEEP UNIT IN PLACE DURING A RAN EVENT AND CREATE A SEAL BETWEEN THE CURB FILTER AND THE SURFACE OF THE STREET.

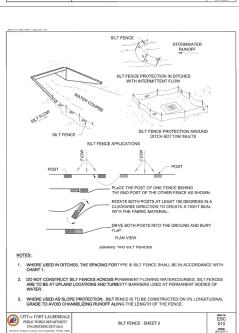
7. CENTER THE UNIT AGAINST CURB OR MEDIAN INLET OPENING SO THAT THE CURB SIDE OF THE UNIT CREATES A SEAL WITH THE CURB OR MEDIAN BARRIER AND INLET STRUCTURE. THERE WILL BE APPROXIMATELY TWELLY (12) INCHES OF THE INLET PROTECTION UNIT OVERHANGING ON EACH SIDE OF THE OPENING.

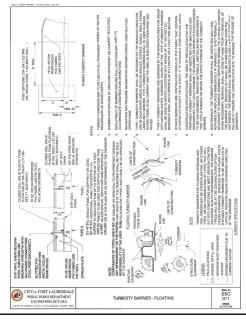


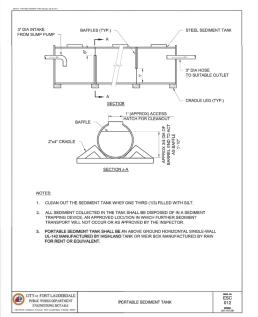


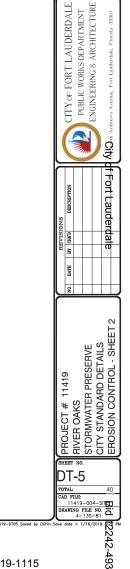






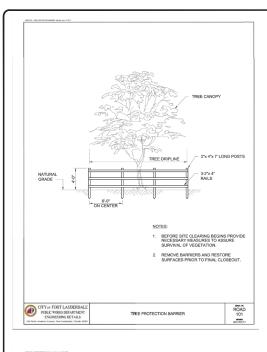


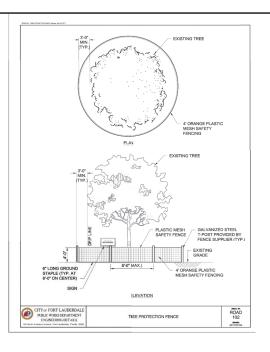


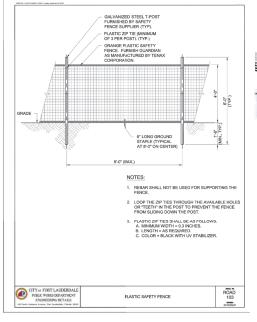


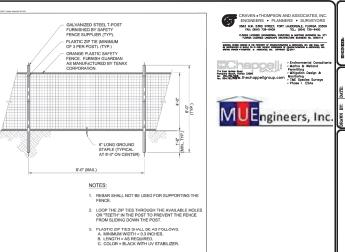
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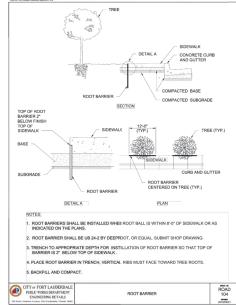












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- PROVIDE DETAILS OF A SMILLAR MATURE, VERRY APPLICABILITY BY SUBMITTING PROVIDED THE ACCOUNTED THE PROVIDED THE SOURCE AS TO A SMILL BE SOURCE, VERSONS BUE FOR THE CONDITIONS OF THE JOSSITE MOLLIUMS SAFETY OF PERSONS AND PROPERTY MILEMAGERES PRESENCE OR REVEYOR OF VIOVENDED SKY OT NICLUDE THE NUMBERS ASSESSED OF THE SAFETY OF THE SAFETY OF THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE STRUCTURE IS COMPLETE.
- STRUCTURE IS COMPLETE.

 IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE ERECTION AND ITS THE CONTRACTORS RESPONSIBILITY TO DETERMINE ERECTION AND ITS PROCEDURES AND SEQUENCE TO NEURIE SAFETY OF THE BULLDING AND ITS SECRETARY OF THE PROPERTY SHAPE OF THE PROPERTY

- **I OBSIGN LOADS:

 **THE STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE 2017 FLORIDA BULDING CODE AND APPLICABLE REFERENCE STANDARDS.

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- THE FLAGGED AND TO LET HEMS CAUSING THE RE-SUBMIT TAL.

 912306-ONTRACTOR PROPOSED CHANGES AND SUBSTITUTIONS:

 PROPOSED CHANGES OR SUBSTITUTIONS TO STRUCTURAL DETAILS OR PLANS
 SHALL BE SUBMITTED TO MUENCHERS FOR REVIEW AND APPROVAL.

 SUBMITTALS SHALL CONTAIN FULL DOCUMENTATION OF CHANGES OR
 SUBSTITUTIONS WITH SUPPORTING, SEALE CALCULATIONS WHERE
- SPECIAL DISTRICT OF THE STATE O

- 26/19-ROUND TIMBER PILES:
 PILES SHALL COMPLY WITH ASTM D25 AND BE TREATED (AWPB STD-MLP P5-72)
 SOUTHERN PINE WITH A MINIMUM BUTT DIAMETER OF 12 INCHES.
 PILES SHALL BE DRIVEN A MINIMUM OF XX FEET INTO BEARING STRATA AND
 ACHEVE A MINIMUM SAFE BEARING CAPACITY OF XX TONS AS COMPUTED BY AN
- AMPROPRIATE DRIVING FORMULA.

 PILE DRIVING OPERATIONS SHALL BE PERFORMED UNDER THE SUPERVISION OF A FLORIDA RESISTANCE OF THE SUPERVISION OF A FLORIDA RESISTERED PROFESSIONAL ENGINEER.

 - LOCATION OF PILES:

 A MAS-BULLT SURVEY OF PILE LOCATIONS SHALL BE PERFORMED BY A FLORIDA REGISTERED LAND SURVEYOR.

 PILES SHALL BE LOCATED ON THE AS-BULLT DRAWINGS HORIZONTALLY AND VERTICALLY FROM THE DESIGN LOCATION.

 SUBBILIT HE AS BULL I DRAWINGS TO THE STRUCTURAL ENGINEER FOR

 - SUBMITTHE AS-BUILT DRAWINGS TO THE STRUCTURAL ENGINEER FOR APPROVAL.
 CONTRACTOR IS RESPONSIBLE FOR ENGINEERING COSTS ASSOCIATED WITH REDESIGNS CAUSED BY IMPROPER PILE LOCATIONS.

- STRUCTURAL WOOD COMPONENTS BEAMS, JOSTS, RAPTERS, ETC.) SHALL HE FOLLOWING MINIMA JALOWASE FERST STRESSES OF JAC SOUTHERN PINE CORFORMING TO THE LATEST EDITION OF MOS. AS FOLLOWS:

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 BERNING. 201 Pp. 1,000 pin

 BERNING.

- OBJUSTATION CONTROLLED TO STATE OF A SUPERIOR CONTROLLED TO STATE OF THE STATE OF T
- RAILING SHOPS:
 THIS RAILING IS DESIGNED TO MEET SECTIONS OF THE CODE GOVERNING
 ELEVATED BALCONIES AND STRUCTURAL RAILINGS (25°PSF ON GROSS AREA,
 50°PLF ON POSTS, 200 LB MIN PER FBC 1618.4.6 [WITHIN HVHZ]).
- THIS SYSTEM HAS BEEN DESIGNED AND SHALL BE FABRICATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2017 FLORIDA BUILDING CODE.

LEGENDS



SECTION MARK



DETAIL MARK

ABBREVIATIONS:

THE FOLLOWING ABBREVIATIONS MAY BE USED IN THE DRAWINGS.

ALUMINIM
MALERICAN NATIONAL STANDARDS INSTITUTE
APPROXIMATE
NOCHOR ROD
ARCHITECTURAL
MIERICAN SOCIETY OF TESTING AND MATERIALS
BRACED FRAME
BRIDDING
BERARNO ALUM.
ANSI
APPROX
AR
ARCH
ASTM
BF
BRDG
BRG
BTWN
C

ELEVATION EMBEDMENT, EMBEDDED ENGINEER EL EMBED ENGR EQ ETR ETBD ETBR EXIST EXP EXT FBC fc= GA GALV GC HORIZ ENGINEER
EQUAL
EXISTING TO REMAIN
EXISTING TO BE DEMOLISHE
EXISTING TO BE RESTORED
EXISTING TO BE MODIFIED
EXISTING
EXPANSION
EXTERIOR
EXPANSION

FLORIDA BUILDING CODE 28 DAY CONCRETE STRENGTH

ZE DAY CONCRETE STREN
FLOOR
YIELD STRENGTH=
GAUGE
GALVANIZE(D)
GENERAL CONTRACTOR
HORIZONTAL

HORIZONTAL
INCH
INCH
INFORMATION
INTERIOR
KIPS (1000 LBS)
KIPS PER SQUARE FOOT
KIPS PER SQUARE INCH
POUNDS
MANUFACTURER
MISCELLANEOUS
METAL

NOT APPLICABLE NOT TO SCALE ROUND, DIAMETER

ROUND, DIAMETER
PARALLEL
POUNDS PER CUBIC FOOT
POUNDS PER CUBIC YARD
PERPENDICULAR
BLATE PERPENDICULAR
PLATE
POUNDS PER LINEAR FOOT
PLYWOOD
POUNDS PER SQUARE FOOT

SCHEDULE(D) STRUCTURAL CONSTRUCTION DOCUMENTS SELF-DRILLING SCREW SECTION SHEET SPECIFICATION

SCHED SCDs SCDs SDS SECT SHT SPEC SST STD STL STRUCT TEMP STAINLESS STEEL STANDARD STEEL STRUCTURE, STRUCTURAL TEMPORARY

TYPICAL
UNLESS NOTED OTHERWISE
VARIES
VERTICAL
WITH
WITH OUT
WOOD BLOCKING
WOOD

SHEET INDEX SHT NO. DESCRIPTION SIRUCTURAL NOTES
S-2.00 PARTIAL MAIN DECK LAYOUT PLAN - AREA 'A
S-2.01 PARTIAL MAIN DECK LAYOUT PLAN - AREA 'B
S-3.00 SECTIONS AND DETAILS
S-4.00 3D VIEWS



CONSULTING STRUCTURAL

ENGINEERS 3440 N.E. 12TH AVENUE OAKLAND PARK, FL 33334

NOTE: NULFIND 1992
THESE DRAWNESS, ALONG WITH THE ARCHITECTURAL DRAWINGS, AND PROJECT MANUAL CONSTITUTE A SINGULAR CONTRACT DOCUMENT AND MUST BE USED TOGETHER IN THEIR ENTIRETY IN THE CONSTRUCTION OF THIS PROJECT.

MUEngineers, Inc.

PROJECT # 11419 STORMWATER PRESERVE RIVER OAKS NEIGHBORHOOD PROPOSED S-0.00

40

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12-493

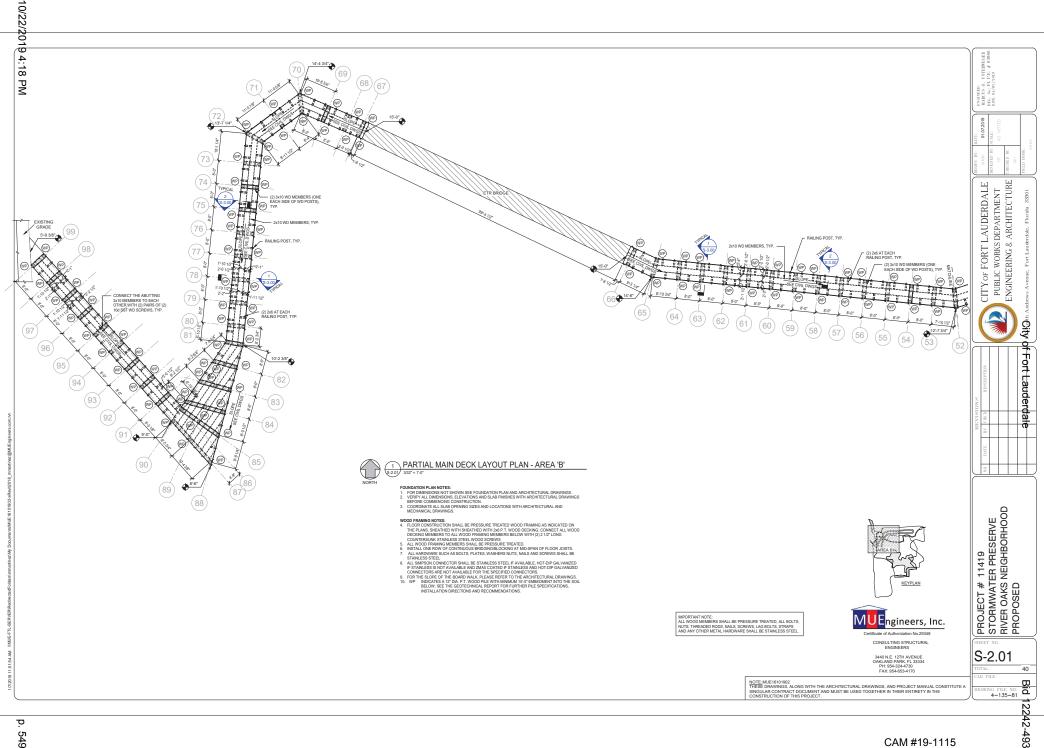
F FORT LAUDERDALE C WORKS DEPARTMENT SERING & ARCHITECTURE

CITY OF FORT PUBLIC WORKS ENGINEERING 8

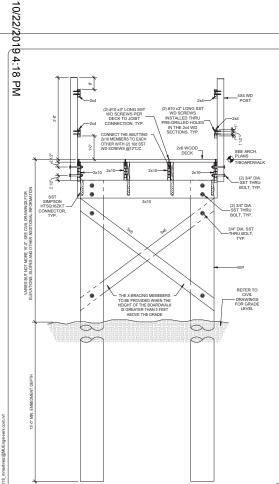
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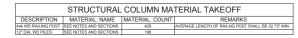
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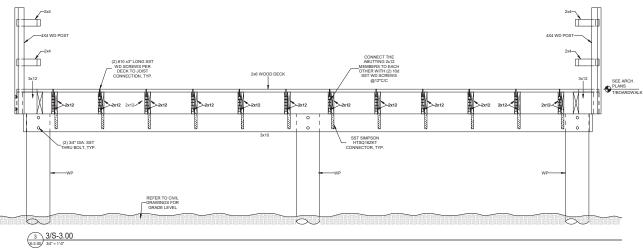


1 TYPICAL BOARDWALK SECTION 347 = 1'-0'



STRUCTURAL FRAMING MATERIAL TAKEOFF			
DECRIPTION	MATERIAL: NAME	MATERIAL: COUNT	REMARKS
2x4 WD RAIL FRAMING MEMBER	SEE NOTES AND SECTIONS	332	
2x6 WD FRAMING MEMBER	SEE NOTES AND SECTIONS	484	
2x10 WD FRAMING MEMBER	SEE NOTES AND SECTIONS	388	
2x12 WD FRAMING MEMBER	SEE NOTES AND SECTIONS	24	
3x6 WD X-BRACING FRAMING MEMBER	SEE NOTES AND SECTIONS	176	
3x10 WD FRAMING MEMBER	SEE NOTES AND SECTIONS	185	
3x12 WD FRAMING MEMBER	SEE NOTES AND SECTIONS	6	

	FLOOR MATER	RIAL TAKEOFF	
DECRIPTION	MATERIAL: NAME	MATERIAL: AREA	REMARKS
112" MID 246 EL OOD DECVINO	DEE MOTER AND DECTIONS	E10E DE	



2 TYPICAL RAILING POST CONNECTION
(\$3.00) 34° = 1'-0°

MOTES:

1. ALL FASTEMERS AND HARDWARE SUCH AS BOLTS, WASHERS, NJTS, NALS, SCREWS, ETC.
SHALL BE STANKESS STEL.

2. ALL PLATES, ANGLES AND WELDED PLATE ASSEMBLIES SHAL BE HOT DIPPED DALVANCED.

3. CONNECT THE ABUTTING 2x10 MEMBERS TO EACH OTHER WITH (2) PARS OF (2) 104 SST WD SCREWS, TTP.

MUEngineers, Inc.

CONSULTING STRUCTURAL ENGINEERS

3440 N.E. 12TH AVENUE OAKLAND PARK, FL 33334 PH: 954-324-4730 FAX: 954-653-4170

NOTE MUBIEI01902
THESE DRAWINGS, ALONG WITH THE ARCHITECTURAL DRAWINGS, AND PROJECT MANUAL CONSTITUTE A SINGULAR CONTRACT DOCUMENT AND MUST BE USED TOGETHER IN THEIR ENTIRETY IN THE CONSTRUCTION OF THIS PROJECT.

S-3.00

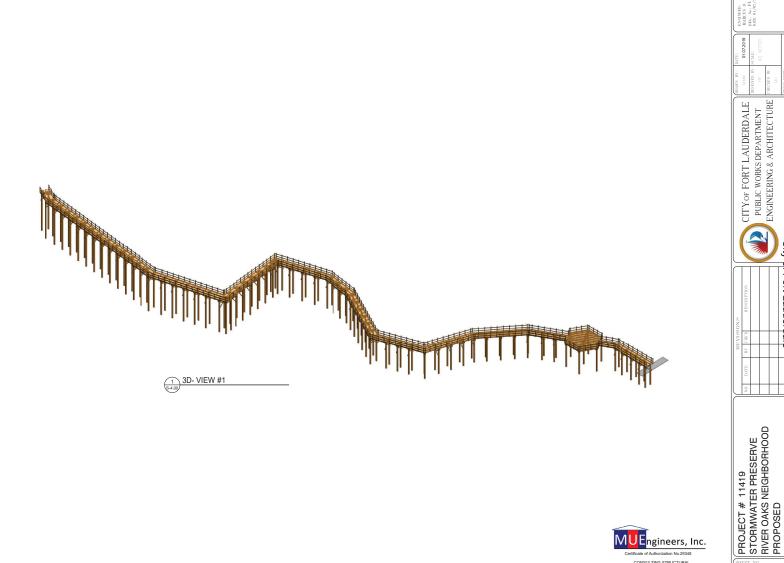
PROJECT # 11419
STORMWATER PRESERVE
RIVER OAKS NEIGHBORHOOD
PROPOSED

CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINEERING & ARCHITECTURE

Oity

of Fort Lauderdale

Bid 4-135-81 12242-493



MUEngineers, Inc.

CONSULTING STRUCTURAL ENGINEERS

NOTE: MUE16101902
THESE DRAWINGS, ALONG WITH THE ARCHITECTURAL DRAWINGS, AND PROJECT MANUAL CON SINGULAR CONTRACT DOCUMENT AND MUST BE USED TOGETHER IN THEIR ENTIRETY IN THE CONSTRUCTION OF THIS PROJECT.

S-4.00

Oity

of Fort Lauderdale

<u>Bid</u> 4-135-81 12242-493 The Contractor shall have previous construction experience in wetlands, wetland construction and restoration, and boardwalks in South Florida within the past five (5) years. Bidder shall submit proof of construction experience for a minimum of three (3) projects of similar scope and scale (or larger) and shall, for each project listed, identify location; dates of construction; project name and overall scope; scope of work that was self-performed by Contractor; and client's name, address, telephone number and e-mail address.

Bidder's are expected to provide information on each project by including these forms in their bid submittals. If these forms are not utilized, the Bidder's must provide identical information to the City for evaluation purposes.

Note: Do not include proposed team members or parent/subsidiary companies as references in your submittals.

A. PRIME BIDDER'S NAME:
CLIENT NO.1 - Name of firm to be contacted:
Address:
Contact Person:
Phone No: ()
Contact E-Mail Address:
Project Performance Period: to Dates should be in mm/yy format
Project Name :
Location of Project:
Overall Construction Cost:
Description of the overall scope:
Description of work that was self-performed by Bidder:

CLIENT NO.2 - Name of firm to be contacted:
Address:
Contact Person:
Phone No: ()
Contact E-Mail Address:
Project Performance Period: to Dates should be in mm/yy format
Project Name :
Location of Project:
Overall Construction Cost:
Description of the overall scope:
Description of work that was self-performed by Bidder:

CLIENT NO.3 - Name of firm to be contacted:
Address:
Contact Person:
Phone No: ()
Contact E-Mail Address:
Project Performance Period: to Dates should be in mm/yy format
Project Name :
Location of Project:
Overall Construction Cost:
Description of the overall scope:
Description of work that was self-performed by Bidder:

CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT

MINORITY BUSINESS ENTERPRISE (MBE) - WOMEN BUSINESS ENTERPRISE (WBE)

PRIME CONTRACTOR IDENTIFICATION FORM

In order to assist us in identifying the status of those companies doing business with the City of Fort Lauderdale, this form <u>must be completed and returned</u> with your bid package.

Name of Firm:	
Address of Firm:	
Telephone Number:	
Name of Person Completing Form:	
Title:	
Signature:	
Date:	
City Project Number:	
City Project Description:	
Please check the item(s) which prop	erly identify the status of your firm:
☐ Our firm is not a MBE or WBE	
 Our firm is a MBE, as at least economically disadvantaged 	51 percent is owned and operated by one or more socially and individuals.
☐ American Indian ☐ Asi	an 🗌 Black 🗎 Hispanic
☐ Our firm is a WBE, as at least	51 percent is owned and operated by one or more women.
☐ American Indian ☐ Asi	an 🗌 Black 🔲 Hispanic

MBE/WBE CONTRACTOR INFORMATION

The City, in a continuing effort, is encouraging the increased participation of minority and womenowned businesses in Public Works Department related contracts. Along those lines, we are requiring that each firm provide documentation detailing their own programs for utilizing minority and women-owned businesses.

Submit this information as a part of this bid package and refer to the checklist, to ensure that all areas of concern are covered. The low responsive bidder may be contacted to schedule a meeting to discuss these objectives. It is our intention to proceed as quickly as possible with this project, so your cooperation in this matter is appreciated.

CONTRACTOR CHECKLIST

	<u> </u>
	<u>5</u>
	Number of Employees in your firmPercent (%) Women
	Percent (%) Minorities
	Job Classifications of Women and Minorities
	5
	6
	
П	Use of minority and/or women subcontractors on past projects.
	<u>5</u>
	Nature of the work subcontracted to minority and/or women-owned firms.
	Nature of the work subcontracted to fillifority and/or women-owned liftis.
<u> </u>	<u>[6]</u>
	How are subcontractors notified of available opportunities with your firm?
	5

List Previous City of Fort Lauderdale Contracts

П

Ш	Anticipated amount to be subcontracted on this project.
	<u>5</u>
	Anticipated amount to be subcontracted to minority and/or women-owned businesses on this project.
	5
	6

NON-COLLUSION STATEMENT:

By signing this offer, the vendor/contractor certifies that this offer is made independently and *free* from collusion. Vendor shall disclose below any City of Fort Lauderdale, FL officer or employee, or any relative of any such officer or employee who is an officer or director of, or has a material interest in, the vendor's business, who is in a position to influence this procurement.

Any City of Fort Lauderdale, FL officer or employee who has any input into the writing of specifications or requirements, solicitation of offers, decision to award, evaluation of offers, or any other activity pertinent to this procurement is presumed, for purposes hereof, to be in a position to influence this procurement.

For purposes hereof, a person has a material interest if they directly or indirectly own more than 5 percent of the total assets or capital stock of any business entity, or if they otherwise stand to personally gain if the contract is awarded to this vendor.

In accordance with City of Fort Lauderdale, FL Policy and Standards Manual, 6.10.8.3,

- 3.3. City employees may not contract with the City through any corporation or business entity in which they or their immediate family members hold a controlling financial interest (e.g. ownership of five (5) percent or more).
- 3.4. Immediate family members (spouse, parents and children) are also prohibited from contracting with the City subject to the same general rules.

Failure of a vendor to disclose any relationship described herein shall be reason for debarment in accordance with the provisions of the City Procurement Code.

<u>NAME</u>		RELATI	<u>ONSHIPS</u>	
-				
	Г			
	_			

In the event the vendor does not indicate any names, the City shall interpret this to mean that the vendor has indicated that no such relationships exist.

CAM #19-1115

QUESTIONNAIRE SHEET

PLEASE PRINT OR TYPE:	
Firm Name:	
President	
Business Address:	
<u>5</u> 6	
Telephone:	Fax:
E-Mail Address:	
What was the last project of this nature which you completed? Include the year, d contract value.	escription, and
<u>5</u>	
The following are named as three corporations and representatives of those corpor have performed work similar to that required by this contract, and which the City mareferences (include addresses, telephone numbers and e-mail addresses). Incluyear, description, and contract value.	nay contact as you
How many years has your organization been in business?	
Have you ever failed to complete work awarded to you; if so, where and why?	
The name of the qualifying agent for the firm and his position is:	
Certificate of Competency Number of Qualifying Agent:	
Effective Date: Expiration Date:	
Licensed in: Engineering Contractor's License # (County/State)	:

Expiration Date:	

NOTE: To be considered for award of this contract, the bidder must submit a financial statement upon request.

NOTE: Contractor <u>must</u> have proper licensing and shall provide copy of same with his proposal.

QUESTIONNAIRE SHEET

1.	Have you personally inspected the proposed work and have you a complete plan for its performance?
	5
2.	Will you sublet any part of this work? If so, list the portions or specialties of the work that you will.
a)	
b)	
c)	
d)	
e)	
f)	
g)	
3.	What equipment do you own that is available for the work?
4.	What equipment will you purchase for the proposed work?
5.	What equipment will you rent for the proposed work?

CONTRACTOR'S CERTIFICATE OF COMPLIANCE WITH NON-DISCRIMINATION PROVISIONS OF THE CONTRACT

The completed and signed form should be returned with the Contractor's submittal. If not provided with submittal, the Contractor must submit within three business days of City's request. Contractor may be deemed non-responsive for failure to fully comply within stated timeframes.

Pursuant to City Ordinance Sec. 2-187(c), bidders must certify compliance with the Non-Discrimination provision of the ordinance.

The Contractor shall not, in any of his/her/its activities, including employment, discriminate against any individual on the basis of race, color, national origin, religion, creed, sex, disability, sexual orientation, gender, gender identity, gender expression, or marital status.

- 1. The Contractor certifies and represents that he/she/it will comply with Section 2-187, Code of Ordinances of the City of Fort Lauderdale, Florida, as amended by Ordinance C-18-33 (collectively, "Section 2-187").
- 2. The failure of the Contractor to comply with Section 2-187 shall be deemed to be a material breach of this Agreement, entitling the City to pursue any remedy stated below or any remedy provided under applicable law.
- 3. The City may terminate this Agreement if the Contractor fails to comply with Section 2-187.
- 4. The City may retain all monies due or to become due until the Contractor complies with Section 2-187.
- The Contractor may be subject to debarment or suspension proceedings. Such proceedings will be consistent with the procedures in section 2-183 of the Code of Ordinances of the City of Fort Lauderdale, Florida.

Authorized Signature	Print Name and Title	
Date		

CONSTRUCTION BID CERTIFICATION

	ields below must be rity from the Depart											rp	oration, you may	be required to obtain a
Company: (Legal R	Registration)													
Address:														
City:		State:	z	ip:										
Telephone No.	Frm qualifies for MBE	AX No.			Email:									
If a corporation, sta		Preside		у а	nd Resident Age	nt.	. If a partnership,	st	ate the names of	all	partners. If a trade	le	name, state the n	ames of the individuals
Name			Title				Nar	me					Title	
Name			Title				Nar	me					 Title	
Addendum No.	Date Received	Add	endum	ige	Date Received	ıg	Addendum No.	Jee	Date Received		Addendum No.	1.	Date Received	
NO.	Received		NO.	Т	Received	Т	NO.	†	Received	Г	140.	Т	Received	
reference in the spart of the bid subno statement is con	ace provided below nitted unless such is	all vari listed a s space	ances conta and containe , it is hereb	aine ed y ii	ed on other page in the space prov nplied that your i	s v ide	within your bid. A ed below. The Ci sponse is in full o	dd ity cor	itional pages may does not, by virtue npliance with this	y b e c	e attached if nece of submitting a vari ompetitive solicita	es ia	sary. No variance nce, necessarily a	pace provided below or ss will be deemed to be accept any variances. It have variances, simply
Florida. The below accordance with th with other bidders, and answers conta direct, indirect, inci public advertisement	y signatory agrees e bid plans and con and has not collude ined in this bid. The dental, consequent	to furni tract do d with a e below ial, spe site vis	sh all labor, cuments at any other bid signatory a cial or exen its, evaluation	the dde ilso npl	ols, material, eq e unit prices indice er or parties to thi hereby agrees, ary damages, ex s, oral presentation	ui s by pe	pment and supped if awarded a count of awarded a count of submitenses, or lost proses, or award proces, or award proces.	olie cor Fu ttin ofits	s, and to sustain atract. The below athermore, the unit g or attempting to a arising out of this lings exceed the a	siç de o s is	Il the expense inc gnatory has not div ersigned guarantee submit a bid, that in competitive solicit nount of Five Hund	vu es in ta	rred in doing the alged to, discusses the truth and according event shall the tion process, included Dollars (\$500.0	business in the State of work set forth in strict d, or compared this bic curacy of all statements e City's liability for bidde uding but not limited to 20). This limitation shall
Submitted by:														
Name (printed)			Signa	tur	e									
Date			Title			_								
Date Revised 07/11/2019			ппе											

CAM #19-1115 Exhibit 3D - Part 4 of 6 Page 53 of 70

CONTRACT PAYMENT METHOD

The City of Fort Lauderdale has implemented a Procurement Card (P-Card) program which changes how payments are remitted to its vendors. The City has transitioned from traditional paper checks to credit card payments via MasterCard or Visa as part of this program.

This allows you as a vendor of the City of Fort Lauderdale to receive your payments fast and safely. No more waiting for checks to be printed and mailed.

In accordance with the contract, payments on this contract will be made utilizing the City's P Card (MasterCard or Visa). Accordingly, bidders must presently have the ability to accept these credit cards or take whatever steps necessary to implement acceptance of a card before the start of the contract term, or contract award by the City.

All costs associated with the Contractor's participation in this purchasing program shall be borne by the Contractor. The City reserves the right to revise this program as necessary.

By signing below you agree with these terms.

Please indicate which credit card payment you pro	efer:
☐MasterCard	
□Visa	
Company Name	
Name (Printed)	Signature
Date	Title

City of Fort Lauderdale • Procurement Services Division

100 N. Andrews Avenue, 619 • Fort Lauderdale, Florida 33301

954-828-5933 Fax 954-828-5576

purchase@fortlauderdale.gov

ADDENDUM NO. 1

ITB No. 12242-493

TITLE: River Oaks Preserve Project P11419

ISSUED: August 27, 2019

This addendum is being issued to make the following change(s):

SAJ-2006-06782(SP-PWB).
All other terms, conditions, and specifications remain unchanged.
(Penelope Burger) (Procurement Administrator)
Company Name:(please print) Bidder's Signature:
Date:

DEPARTMENT OF THE ARMY PERMIT

Permittee: CITY OF FORT LAUDERDALE

Attention: Paul A. Berg 100 N. Andrews Avenue

Fort Lauderdale, Florida 33301

Permit No: SAJ-2006-06782(SP-PWB)

Issuing Office: U.S. Army Engineer District, Jacksonville

NOTE: The term "you" and its derivatives, as used in this permit, means the permittee or any future transferee. The term "this office" refers to the appropriate district or division office of the U.S. Army Corps of Engineers (Corps) having jurisdiction over the permitted activity or the appropriate official of that office acting under the authority of the commanding officer.

You are authorized to perform work in accordance with the terms and conditions specified below.

Project Description: The applicant seeks authorization to discharge 970 cubic yards of fill within 0.28 acres of freshwater wetlands to construct a wetland preserve and surface-water management system to contain pretreated storm water runoff and alleviate flooding in the River Oaks neighborhood. The surface-water management system would require removing the existing outflow structure that flows into the New River Canal and installing a pump station and new outflow structure that would include installing 44.5 cubic yards of riprap with a manatee excluder grate at the northwest corner of the property, installing an inflow structure and pump station at the south east corner of the property and connecting the surface water system to the street drainage system of the River Oaks neighborhood.

The 8.41 acre site contains 3.51 acres of wetlands (2.64 acres of forested wetlands and 0.87 acres of herbaceous.) The project would place 970 cubic yards of fill within 0.28 acres of wetlands. This includes 970 cubic yards of fill placed within 0.28 acres of herbaceous wetlands to create a berm (0.23 acres) and filling in a portion of the northwestern portion of the property (0.05 acres) for the construction of a pump-house. Additionally 2.9 acres of uplands would be excavated for wetland creation and 3.23 acres of existing wetlands are to be enhanced and 0.23 acres of uplands would be created. The project also includes installing a new 4,527 square foot boardwalk for the public to access the area for passive recreation. The work described above is to be completed in accordance with the 14 pages of drawings [and 7 attachments] affixed at the end of this permit instrument.

<u>Project Location</u>: The project site is located within an undeveloped lot in the River Oaks Neighborhood, immediately west of SW 19th Avenue and east of SW 20th Terrace (PCN #'s 504216000170, 504216000160, 504216000141, 504216000200, and 504216460010), Section 16, Township 50 South, Range 42 East, in Fort Lauderdale, Broward County, Florida.

<u>Directions to site</u>: From Southbound I-95 take exit 25 Marina Mile Boulevard/84. Turn east onto State Road 84 and continue to SW 15th Avenue. Turn north onto SW 15th Avenue and continue to SW 24th Street. Turn west onto SW 24th Street and continue, the street curves north and becomes SW 19th Avenue, continue to SW 23rd Court. The street dead ends at the property.

Approximate Central Coordinates:

Latitude: 26.09422° North Longitude: -80.16719° West

Permit Conditions

General Conditions:

- 1. The time limit for completing the work authorized ends on _____. If you find that you need more time to complete the authorized activity, submit your request for a time extension to this office for consideration at least one month before the above date is reached.
- 2. You must maintain the activity authorized by this permit in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.
- 3. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and State coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.

- 4. If you sell the property associated with this permit, you must obtain the signature and the mailing address of the new owner in the space provided and forward a copy of the permit to this office to validate the transfer of this authorization.
- 5. If a conditioned water quality certification has been issued for your project, you must comply with the conditions specified in the certification as special conditions to this permit. For your convenience, a copy of the certification is attached if it contains such conditions.
- 6. You must allow representatives from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit.

Special Conditions:

- 1. **Reporting Address:** The Permittee shall submit all reports, notifications, documentation and correspondence required by the general and special conditions of this permit to the following address:
- a. For standard mail: U.S. Army Corps of Engineers, Regulatory Division, Enforcement Section, 4400 PGA Boulevard, Suite 500, Palm Beach Gardens, Florida 33410.
- b. For electronic mail (preferred) SAJ-RD-Enforcement@usace.army.mil (not to exceed 10 MB).

The Permittee shall reference this permit number, SAJ-2006-06782(SP-PJB), on all submittals.

- 2. **Commencement Notification:** Within 10 days from the date of initiating the work authorized by this permit the Permittee shall provide a written notification of the date of commencement of authorized work to the Corps.
 - 3. Cultural Resources/Historic Properties:
- a. No structure or work shall adversely affect impact or disturb properties listed in the National Register of Historic Places (NRHP) or those eligible for inclusion in the NRHP.
- b. If during the ground disturbing activities and construction work within the permit area, there are archaeological/cultural materials encountered which were not the

subject of a previous cultural resources assessment survey (and which shall include, but not be limited to: pottery, modified shell, flora, fauna, human remains, ceramics, stone tools or metal implements, dugout canoes, evidence of structures or any other physical remains that could be associated with Native American cultures or early colonial or American settlement), the Permittee shall immediately stop all work and ground-disturbing activities within a 100-meter diameter of the discovery and notify the Corps within the same business day (8 hours). The Corps shall then notify the Florida State Historic Preservation Officer (SHPO) and the appropriate Tribal Historic Preservation Officer(s) (THPO(s)) to assess the significance of the discovery and devise appropriate actions.

- c. Additional cultural resources assessments may be required of the permit area in the case of unanticipated discoveries as referenced in accordance with the above Special Condition; and if deemed necessary by the SHPO, THPO(s), or Corps, in accordance with 36 CFR 800 or 33 CFR 325, Appendix C (5). Based, on the circumstances of the discovery, equity to all parties, and considerations of the public interest, the Corps may modify, suspend or revoke the permit in accordance with 33 CFR Part 325.7. Such activity shall not resume on non-federal lands without written authorization from the SHPO for finds under his or her jurisdiction, and from the Corps.
- d. In the unlikely event that unmarked human remains are identified on non-federal lands, they will be treated in accordance with Section 872.05 Florida Statutes. All work and ground disturbing activities within a 100-meter diameter of the unmarked human remains shall immediately cease and the Permittee shall immediately notify the medical examiner, Corps, and State Archeologist within the same business day (8-hours). The Corps shall then notify the appropriate SHPO and THPO(s). Based, on the circumstances of the discovery, equity to all parties, and considerations of the public interest, the Corps may modify, suspend or revoke the permit in accordance with 33 CFR Part 325.7. Such activity shall not resume without written authorization from the State Archeologist and from the Corps.
- e. If prehistoric or historic artifacts, such as pottery or ceramics, projectile points, dugout canoes, metal implements, historic building materials, or any other physical remains that could be associated with Native American, early European, or American settlement are encountered at any time within the project site area, the permitted project shall cease all activities involving subsurface disturbance in the vicinity of the discovery. The applicant shall contact the Florida Department of State, Division of Historical Resources, Compliance Review Section at (850)-245-6333. Project activities shall not resume without verbal and/or written authorization. In the event that unmarked human remains are encountered during permitted activities, all work shall stop immediately and the proper authorities notified in accordance with Section 872.05, Florida Statutes.

- 4. **Erosion Control:** Prior to the initiation of any work authorized by this permit, the Permittee shall install erosion control measures along the perimeter of all work areas to prevent the displacement of fill material outside the work area into waters of the United States. Immediately after completion of the final grading of the land surface, all slopes, land surfaces, and filled areas shall be stabilized using sod, degradable mats, barriers, or a combination of similar stabilizing materials to prevent erosion. The erosion control measures shall remain in place and be maintained until all authorized work is completed and the work areas are stabilized.
- 5. **Fill Material:** The Permittee shall use only clean fill material for this project. The fill material shall be free from items such as trash, debris, automotive parts, asphalt, construction materials, concrete block with exposed reinforcement bars, and soils contaminated with any toxic substance, in toxic amounts in accordance with Section 307 of the Clean Water Act.
- 6. **Eastern Indigo Snake Protection Measures:** Permittee shall comply with U.S. Fish and Wildlife Service's "Standard Protection Measures for the Eastern Indigo Snake" dated August 1, 2017, as provided in Attachment C of this permit. All gopher tortoise burrows, active or inactive, shall be evacuated prior to site manipulation in the vicinity of the burrow. If excavating potentially occupied burrows, active or inactive, individuals must first obtain state authorization via a Florida Fish and Wildlife Conservation Commission (FWC) Authorized Gopher Tortoise Agent permit. The excavation method selected shall minimize the potential for injury of an indigo snake. The Permittee shall follow the excavation guidance provided in the most current FWC Gopher Tortoise Permitting Guidelines found at http://myfwc.com/gophertortoise. If an indigo snake is encountered, the snake must be allowed to vacate the area prior to additional site manipulation in the vicinity. Holes, cavities, and snake refugia other than gopher tortoise burrows shall be inspected each morning before planned site manipulation of a particular area, and if occupied by an indigo snake, no work shall commence until the snake has vacated the vicinity of the proposed work.
- 7. **Manatee Conditions:** The Permittee shall comply with the "Standard Manatee Conditions for In-Water Work 2011" (Attachment D).
- 8. **Manatee Condition for Culverts**: All culverts 8 inches to 8 feet in diameter must be grated to prevent manatee entrapment. Grates must be permanently fixed, spaced a maximum of 8 inches apart (may be less for culverts smaller than 16 inches in diameter) and may be installed diagonally, horizontally or vertically. For new culverts, grates must be attached prior to installation of the culverts. Culverts less than 8 inches or greater than 8 feet in diameter are exempt from this requirement.

- 9. **Project Design Criteria (PDCs) for In-Water Activities:** The Permittee shall comply with National Marine Fisheries Service's "PDCs for In-Water Activities" dated November 20, 2017 (Attachment E).
 - 10. **Daylight Hours:** All activities must be completed during daylight hours.
- 11. **Erosion Control**: All outfall discharge shall be designed and implemented to prevent erosion and scour.
- 12. **Agency Changes/Approvals:** Should any other agency require and/or approve changes to the work authorized or obligated by this permit, the Permittee is advised a modification to this permit instrument is required prior to initiation of those changes. It is the Permittee's responsibility to request a modification of this permit from the Palm Beach Gardens Permits Section. The Corps reserves the right to fully evaluate, amend, and approve or deny the request for modification of this permit.
- 13. **Wetland Avoidance Areas:** The Permittee shall avoid the remaining 3.23 acres of onsite wetlands, as detailed on Drawings 2 through 4 of 14 (Attachment A). These wetland areas were avoided as part of this permit application review process; and, therefore, the remaining wetland areas will not be disturbed by any activities that would degrade the ecological integrity of the site including dredging, filling, land clearing, or other construction work whatsoever except as required or authorized by this permit including the attached mitigation plan. The Corps reserves the right to deny review of any requests for future impacts to these avoided wetland areas.
- 14. **Compensatory Mitigation:** Within 6 months from the date of initiating the work authorized by this permit, the Permittee shall complete all construction and implementation mitigation activities in accordance with the approved final compensatory mitigation plan included as Attachment F of this permit. In addition, the Permittee shall complete all additional required mitigation plan components as detailed in Attachment F. The mitigation plan includes the enhancement of 3.23 acres of wetlands and the creation of 2.9 acres of wetlands. However, only the enhancement of 3.23 acres of wetlands is required as compensatory mitigation for the direct impacts to 0.28 acres of wetlands.
- 15. **Monitoring and Reporting Timeframes:** To document achievement of the performance standards identified in the approved mitigation plan (Attachment F) the Permittee shall complete the following:

- a. Perform a time-zero monitoring event of the wetland mitigation area(s) within 60 days of completion of the compensatory mitigation construction and implementation activities identified in the approved mitigation plan (Attachment F).
- b. Submit the time-zero report to the Corps within 60 days of completion of the monitoring event. The report will include at least one paragraph depicting baseline conditions of the mitigation site(s) prior to initiation of the compensatory mitigation objectives and a detailed plan view drawing of all created, enhanced and/or restored mitigation areas.
- c. Subsequent to completion of the compensatory mitigation objectives, perform semi-annual monitoring of the wetland mitigation areas for the first 2 years and annual monitoring thereafter for a total of no less than 5 years of monitoring.
- d. Submit annual monitoring reports to the Corps within 60 days of completion of the monitoring event. Semi-annual monitoring will be combined into one annual monitoring report.
- e. Monitor the mitigation area(s) and submit annual monitoring reports to the Corps until released in accordance with the Mitigation Release Special Condition # 18 of this permit.
- 16. **Reporting Format:** The Permittee shall submit all monitoring documentation to the Corps on 8½-inch by 11-inch paper, and include the following:
 - a. Project Overview:
 - (1) Department of the Army Permit Number
 - (2) Name and contact information of Permittee and consultant
- (3) Name of party responsible for conducting the monitoring and the date(s) the inspection was conducted
- (4) A brief paragraph describing the purpose of the approved project, acreage and type of aquatic resources impacted, and mitigation acreage and type of aquatic resources authorized to compensate for the aquatic impacts.
- (5) Written description of the location, any identifiable landmarks of the compensatory mitigation project including information to locate the site perimeter(s),

and coordinates of the mitigation site (expressed as latitude, longitude, UTMs, state plane coordinate system, etc.).

- (6) Dates compensatory mitigation commenced and/or was complete.
- (7) Short statement on whether the performance standards are being met.
- (8) Dates of any recent corrective or maintenance activities conducted since the previous report submission
 - (9) Specific recommendations for any additional corrective or remedial actions.
- b. Requirements: List the monitoring requirements and performance standards, as specified in the approved mitigation plan and special conditions of this permit, and evaluate whether the compensatory mitigation project site is successfully achieving the approved performance standards or trending towards success. A table is a recommended option for comparing the performance standards to the conditions and status of the developing mitigation site.
- c. Summary Data: Summary data should be provided to substantiate the success and/or potential challenges associated with the compensatory mitigation project. Photo documentation may be provided to support the findings and recommendations referenced in the monitoring report and to assist the PM in assessing whether the compensatory mitigation project is meeting applicable performance standards for that monitoring period. Submitted photos should be formatted to print on a standard 8½-inch x 11-inch piece of paper, dated, and clearly labeled with the direction from which the photo was taken. The photo location points should also be identified on the appropriate maps.
- d. Maps and Plans:Maps shall be provided to show the location of the compensatory mitigation site relative to other landscape features, habitat types, locations of photographic reference points, transects, sampling data points, and/or other features pertinent to the mitigation plan. In addition, the submitted maps and plans should clearly delineate the mitigation site perimeter(s). Each map or diagram should be formatted to print on a standard 8½-inch x 11-inch piece of paper and include a legend and the location of any photos submitted for review. As-built plans may be included.
- e. Conclusions: A general statement shall be included that describes the conditions of the compensatory mitigation project. If performance standards are not being met, a brief explanation of the difficulties and potential remedial actions

proposed by the Permittee or sponsor, including a timetable, shall be provided. The District Commander will ultimately determine if the mitigation site is successful for a given monitoring period.

- 17. **Remediation**: If the compensatory mitigation fails to meet the performance standards 5 years after completion of the compensatory mitigation objectives, the compensatory mitigation will be deemed unsuccessful. Within 60 days of notification by the Corps that the compensatory mitigation is unsuccessful, the Permittee shall submit to the Corps an alternate compensatory mitigation proposal sufficient to create the functional lift required under this permit. The alternate compensatory mitigation proposal may be required to include additional mitigation to compensate for the temporal loss of wetland functions associated with the unsuccessful compensatory mitigation activities. The Corps reserves the right to fully evaluate, amend, and approve or reject the alternate compensatory mitigation proposal. Within 120 days of Corps approval, the Permittee will complete the alternate compensatory mitigation proposal.
- 18. **Mitigation Release**: The Permittee's responsibility to complete the required compensatory mitigation, as set forth in the Compensatory Mitigation Special Condition of this permit will not be considered fulfilled until mitigation success has been demonstrated and written verification has been provided by the Corps. A mitigation area which has been released will require no further monitoring or reporting by the Permittee; however the Permittee, Successors and subsequent Transferees remain perpetually responsible to ensure that the mitigation area(s) remain in a condition appropriate to offset the authorized impacts in accordance with General Condition 2 of this permit.
- 19. **Perpetual Conservation**: The Permittee shall maintain the mitigation areas in their natural state in perpetuity. The Permittee agrees that the only future utilization of these areas will not be in conflict with the intended ecological function of the site and the following uses and/or activities will be prohibited except as required or authorized by this permit:
- a. Construction or placing buildings, roads, signs, billboards or other advertising, utilities or other structures on or above the ground. Elevated boardwalks, hiking trails and camping areas will be permitted as long as they do not involve any of the other prohibited uses listed below:
- b. Dumping or placing soil or other substance or material as landfill or dumping or placing of trash, waste or unsightly or offensive material.
 - c. Removal or destruction of trees, shrubs, or other vegetation.

- d. Excavation, dredging or removal of loam, peat, gravel, soil, rock, or other material substance in such a manner as to affect the surface.
- e. Surface use, except for purposes that permit the land or water area to remain predominantly in its natural condition.
- f. Activities detrimental to drainage, flood control, water conservation, erosion control, soil conservation, or fish and wildlife habitat preservation.
 - g. Acts or uses detrimental to such retention of land or water areas.
- h. Acts or uses detrimental to the preservation of the structural integrity or the physical appearance of sites or properties of historical, architectural, or cultural significance.
- 20. **Notice of Permit:** The Permittee shall complete and record the Notice of Department of the Army Permit (Attachment G) with the Clerk of the Circuit Court, Registrar of Deeds or other appropriate official charged with the responsibility of maintaining records of title to or interest in real property within the county of the authorized activity. Within 90 days from the effective date of this permit the Permittee shall provide a copy of the recorded Notice of Permit to the Corps clearly showing a stamp from the appropriate official indicating the book and page at which the Notice of Permit is recorded and the date of recording.
- 21. **As-Built Certification:** Within 60 days of completion of the work authorized by this permit, the Permittee shall submit as-built drawings of the authorized work and a completed "As-Built Certification By Professional Engineer" form (Attachment H) to the Corps. The as-built drawings shall be signed and sealed by a registered professional engineer and include the following:
- a. A plan view drawing of the location of the authorized work footprint, as shown on the permit drawings, with transparent overlay of the work as constructed in the same scale as the permit drawings on 8½-inch by 11-inch sheets. The plan view drawing should show all "earth disturbance," including wetland impacts and water management structures.
- b. A list of any deviations between the work authorized by this permit and the work as constructed. In the event that the completed work deviates, in any manner, from the authorized work, describe on the attached "As-Built Certification By Professional Engineer"_form the deviations between the work authorized by this permit

and the work as constructed. Clearly indicate on the as-built drawings any deviations that have been listed. Please note that the depiction and/or description of any deviations on the drawings and/or "As-Built Certification By Professional Engineer" form does not constitute approval of any deviations by the Corps.

c. Include the Department of the Army permit number on all sheets submitted.

Further Information:

- 1. Congressional Authorities: You have been authorized to undertake the activity described above pursuant to:
 - (X) Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403)
 - (X) Section 404 of the Clean Water Act (33 U.S.C. 1344)
- () Section 103 of the Marine Protection, Research and Sanctuaries Act of 1972 (33 U.S.C. 1413)
 - 2. Limits of this authorization.
- a. This permit does not obviate the need to obtain other Federal, State, or local authorizations required by law.
 - b. This permit does not grant any property rights or exclusive privileges.
 - c. This permit does not authorize any injury to the property or rights of others.
- d. This permit does not authorize interference with any existing or proposed Federal projects.
- 3. Limits of Federal Liability. In issuing this permit, the Federal Government does not assume any liability for the following:
- a. Damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes.
- b. Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest.

- c. Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.
 - d. Design or construction deficiencies associated with the permitted work.
- e. Damage claims associated with any future modification, suspension, or revocation of this permit.
- 4. Reliance on Applicant's Data: The determination of this office that issuance of this permit is not contrary to the public interest was made in reliance on the information you provided.
- 5. Reevaluation of Permit Decision: This office may reevaluate its decision on this permit at any time the circumstances warrant. Circumstances that could require a reevaluation include, but are not limited to, the following:
 - a. You fail to comply with the terms and conditions of this permit.
- b. The information provided by you in support of your permit application proves to have been false, incomplete, or inaccurate (see 4 above).
- c. Significant new information surfaces which this office did not consider in reaching the original public interest decision.

Such a reevaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 CFR 325.7 or enforcement procedures such as those contained in 33 CFR 326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order requiring you comply with the terms and conditions of your permit and for the initiation of legal action where appropriate. You will be required to pay for any corrective measures ordered by this office, and if you fail to comply with such directive, this office may in certain situations (such as those specified in 33 CFR 209.170) accomplish the corrective measures by contract or otherwise and bill you for the cost.

6. Extensions: General Condition 1 establishes a time limit for the completion of the activity authorized by this permit. Unless there are circumstances requiring either a prompt completion of the authorized activity or a reevaluation of the public interest decision, the Corps will normally give favorable consideration to a request for an extension of this time limit.

Your signature below, as permittee, indicates that the terms and conditions of this permit.	t you accept and agree to comply with
(PERMITTEE)	(DATE)
(PERMITTEE NAME-PRINTED) This permit becomes effective when the Federal of Secretary of the Army, has signed below.	official, designated to act for the
(DISTRICT ENGINEER) ANDREW D. KELLY, JR. Colonel, U.S. Army District Commander	(DATE)

When the structures or work authorized by this permit are still in existence at the time the property is transferred, the terms and conditions of this permit will continue to be binding on the new owner(s) of the property. To validate the transfer of this permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below.

(TRANSFEREE-SIGNATURE)	(DATE)
	_
(NAME-PRINTED)	
(ADDRESS)	
(CITY, STATE, AND ZIP CODE)	

Attachments to Department of the Army Permit Number SAJ-2006-06782(SP-PWB)

- A. PERMIT DRAWINGS: 14 pages, dated August 6, 2019.
- B. WATER QUALITY CERTIFICATION: Specific Conditions of the water quality permit/certification in accordance with General Condition number 5 on page 2 of this DA permit. 9 pages.
- C EASTERN INDIGO SNAKE CONDITIONS: 6 pages
- D. MANATEE CONDITIONS: 2 pages, Standard Manatee Conditions for In-Water Work 2011
- E. PDCs for In-Water Activities" dated November 20, 2017, 3 pages
- F. MITIGATION PLAN: 3 pages
- G. Notice of permit: 2 pages
- H. AS-BUILT CERTIFICATION FORM: 2 pages