**Location Map** 

## FRAZIER CRESCENT SUBDIVISION REDEVELOPMENT



PREPARED FOR THE

CITY OF STUART, FLORIDA

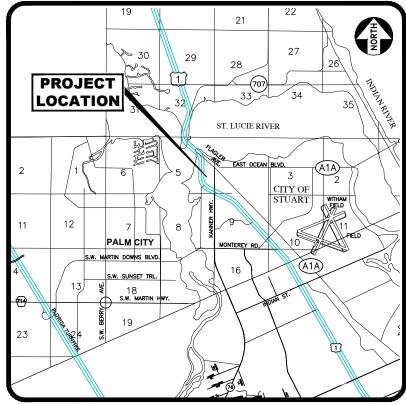
LYING IN **SECTION 5, TOWNSHIP 38 S., RANGE 41 E. CITY OF STUART, FLORIDA** 

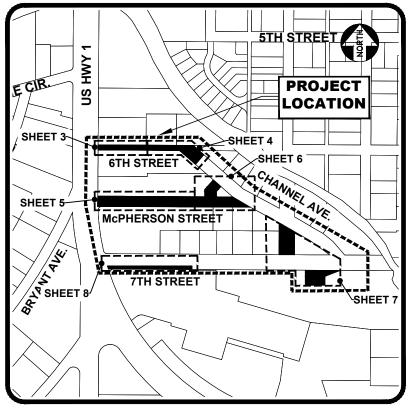
### **CITY OF STUART COMMISSION**

MAYOR **REBECCA S. BRUNER VICE MAYOR EULA CLARKE** COMMISSIONER **KELLI GLASS LEIGHTON** COMMISSIONER **MERRITT MATHESON** COMMISSIONER **MIKE MEIER** 

#### **ENGINEER**

JOSEPH W. CAPRA. P.E. CAPTEC ENGINEERING. INC. **301 N.W. FLAGLER AVENUE** STUART, FLORIDA 34994 PHONE: (772)-692-4344 FAX: (772)-692-4341 P.E. NO. 37638





## **Sheet Index**

lumber	Sheet Title/Description
1	COVER
2	DEMOLITION & EROSION CONTROL
3-4	6TH STREET PLAN & PROFILE
5-6	McPHERSON STREET PLAN SHEETS
7-8	7TH STREET PLAN SHEETS
9	STRIPING & SIGNAGE
10	DETAILS
11	GENERAL NOTES

**APPROVED FOR** CONSTRUCTION

6/3/20

**REVISED 8/10/20** 



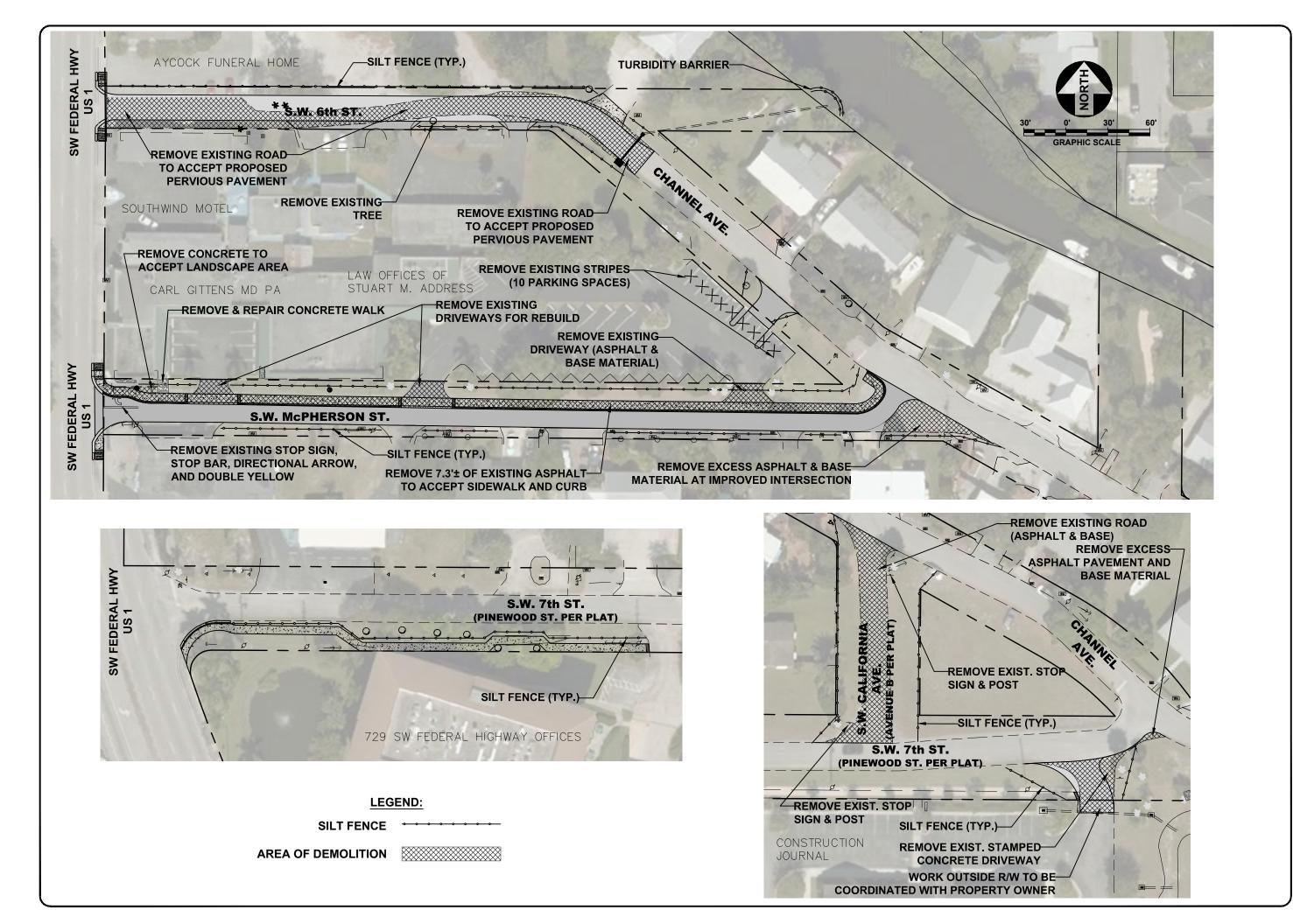
Stuart, Florida 34994 Phone: (772) 692-4344

**NOTE: ALL ELEVATIONS HEREON REFERENCE NORTH AMERICAN VERTICAL DATUM, 1988** 

NOTE: ALL CONSTRUCTION IS TO BE IN ACCORDANCE WITH FLORIDA **DEPARTMENT OF TRANSPORTATION STANDARDS 2019 AND** SPECIFICATIONS, MARTIN COUNTY TRAFFIC STANDARDS, CITY OF STUART STANDARDS AND CITY OF STUART UTILITIES DEPARTMENT STANDARDS.

FRAZIER CRESCENT SUBDIVISION REDEVELOPMENT PROJECT NO. 1783.8

**Site Maps** N.T.S.



Soft NW Flagler Ave Start. Florida 34994
 Phone: (772) 692-4344
 Engineering, Inc.
 Engineering Business

DRAWN BY. BJD
DESIGNED BY. HLT
CHECKED BY. WC
PROJECT No. 1783.8
HORZ. SCALE. 1" = 60'

| 81020 | BJD | MODIFIED U.S. 1 ENTRANCES | 63/20 | BJD | APPROVED FOR CONSTRUCTION | 11/12/19 | BJD | MODIFIED PER CITY COMMENTO | DATE | BY | REVISIONS

VEKIFICALION

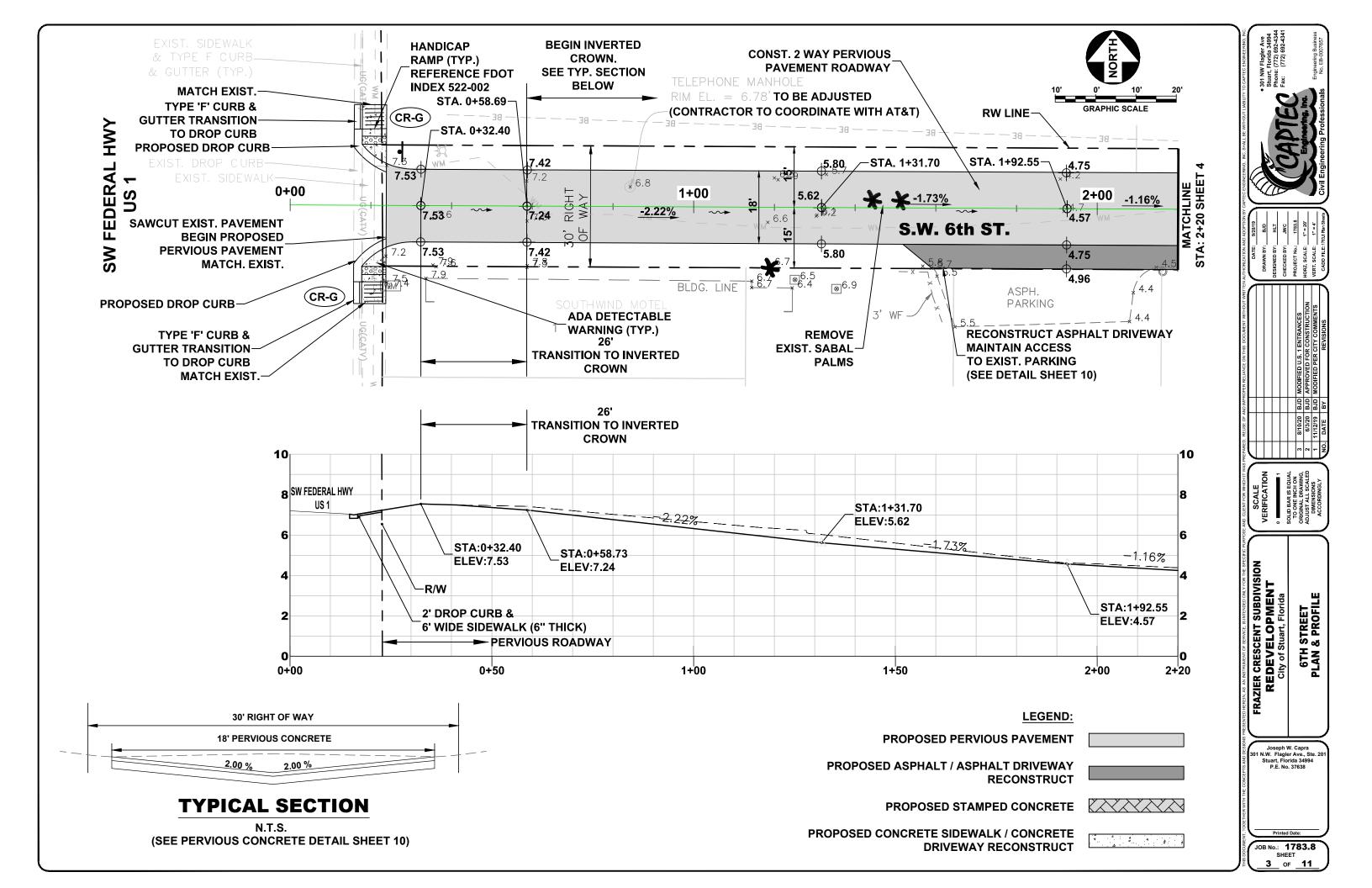
| SOLID BAR IS EQUAL
TO ONE INCH ON
ORIGINAL DRAWING,
ADJUST ALL SCALED

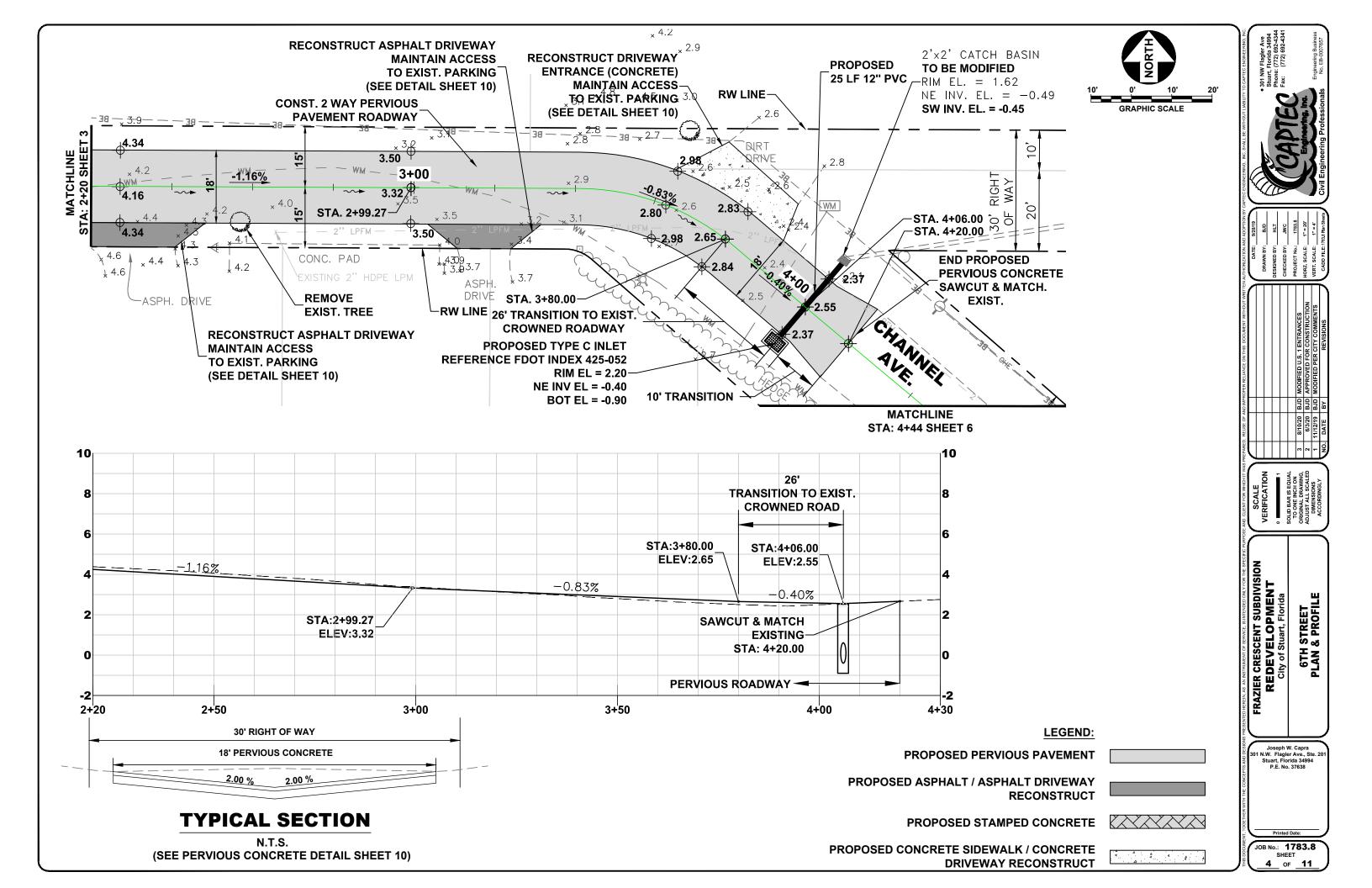
of Stuart, Florida

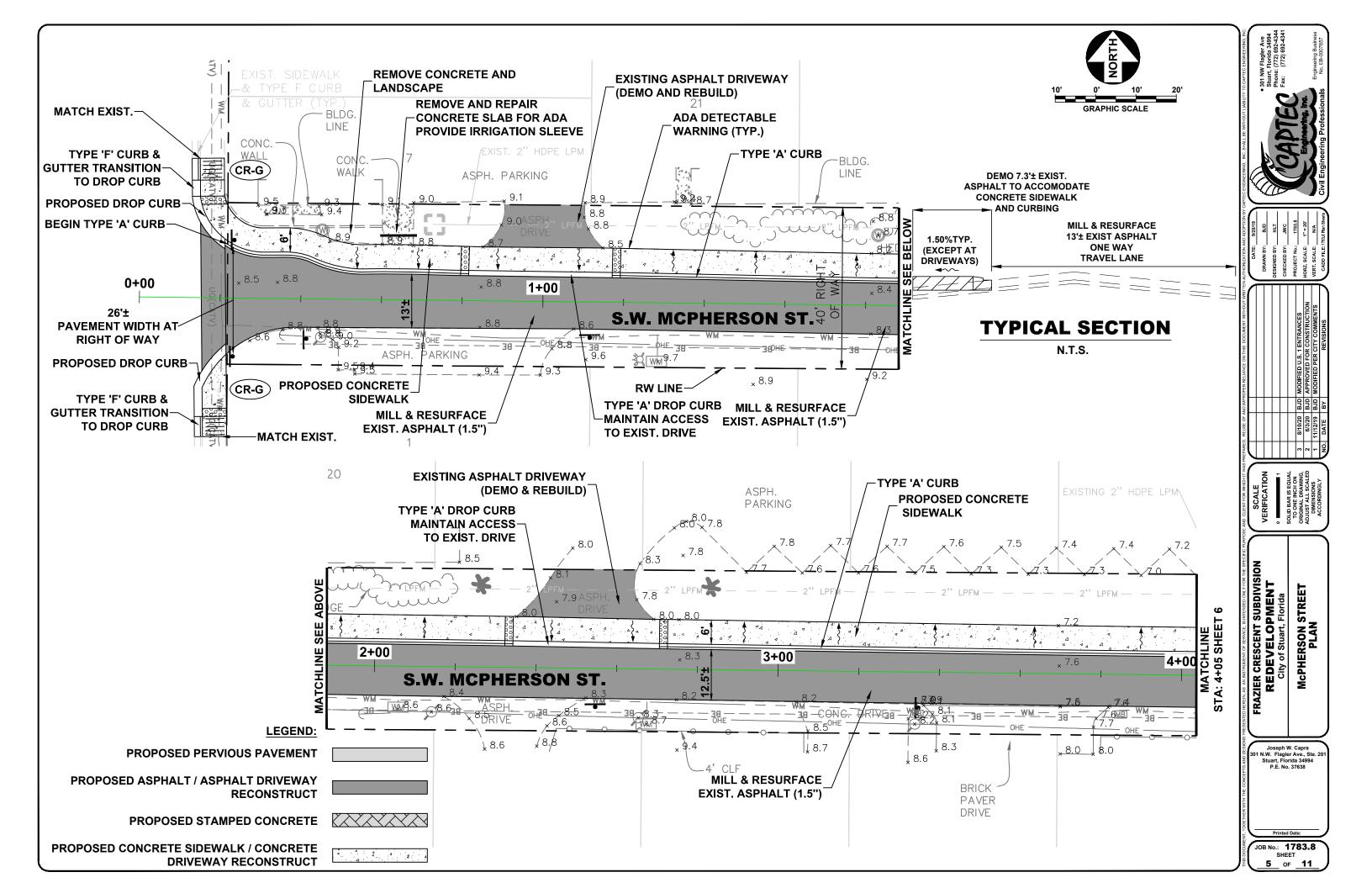
Joseph W. Capra 301 N.W. Flagler Ave., Ste. Stuart, Florida 34994 P.E. No. 37638

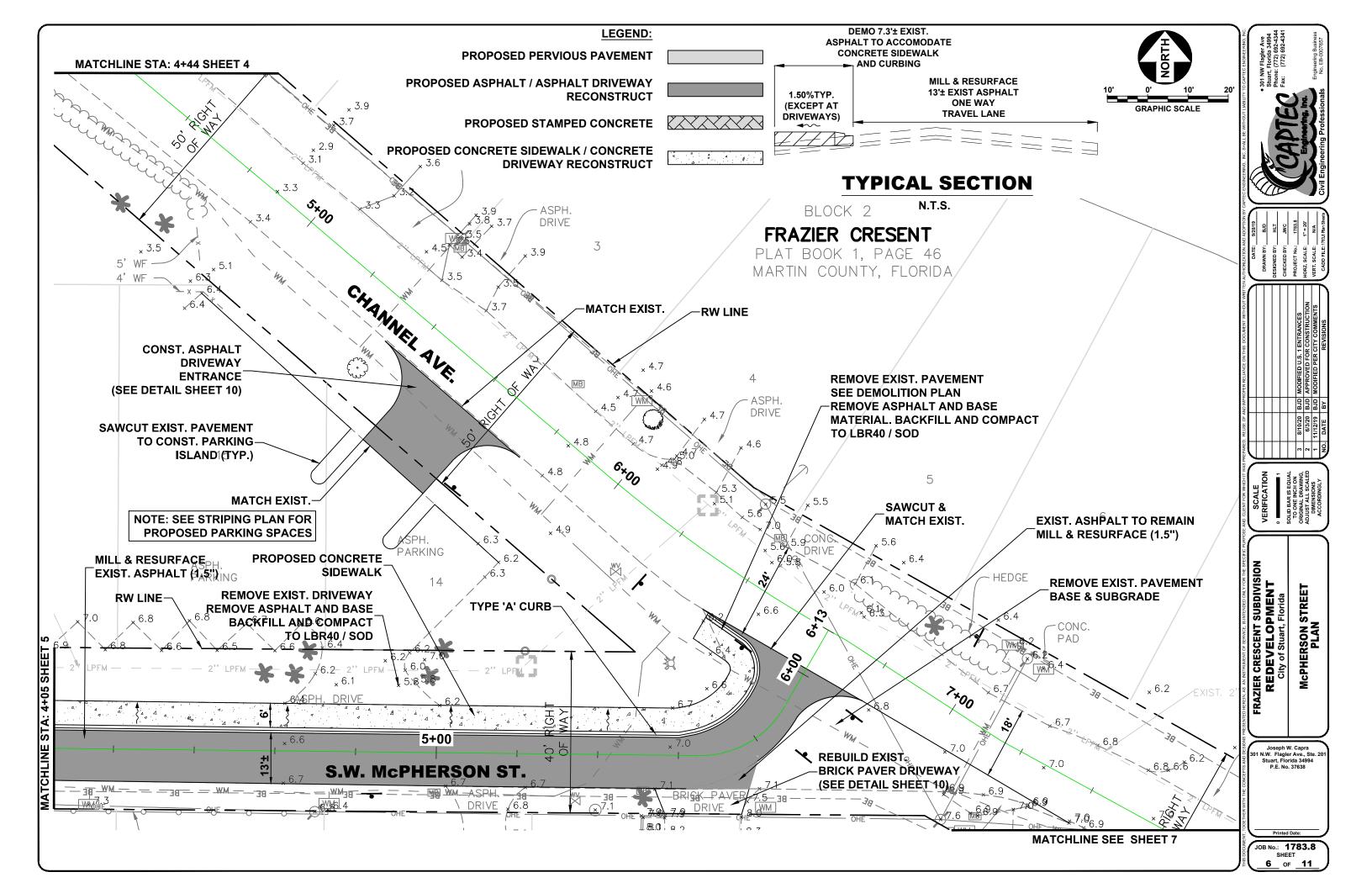
Printed Date:

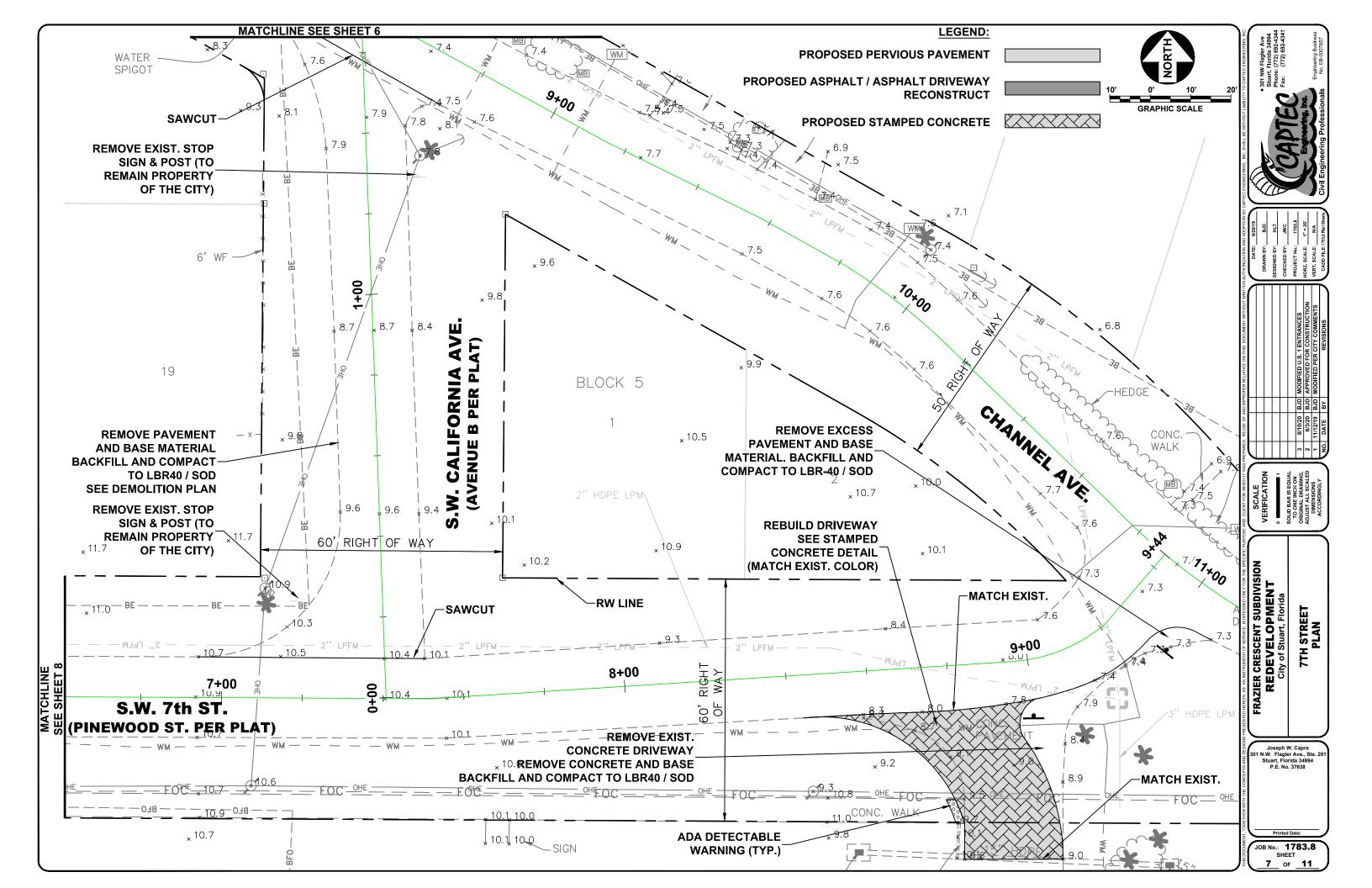
JOB No.: 1783.8
SHEET
2 OF 11

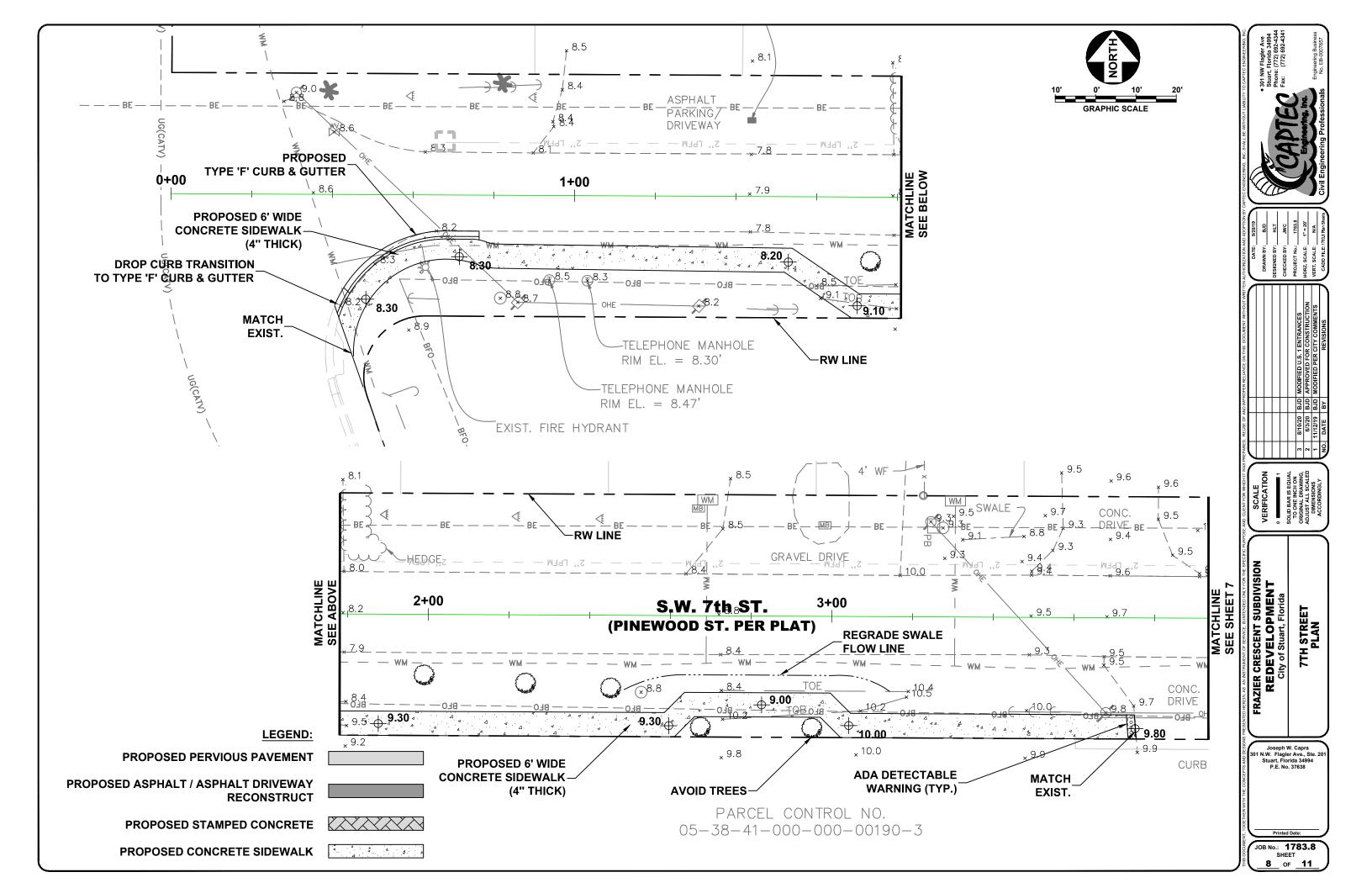


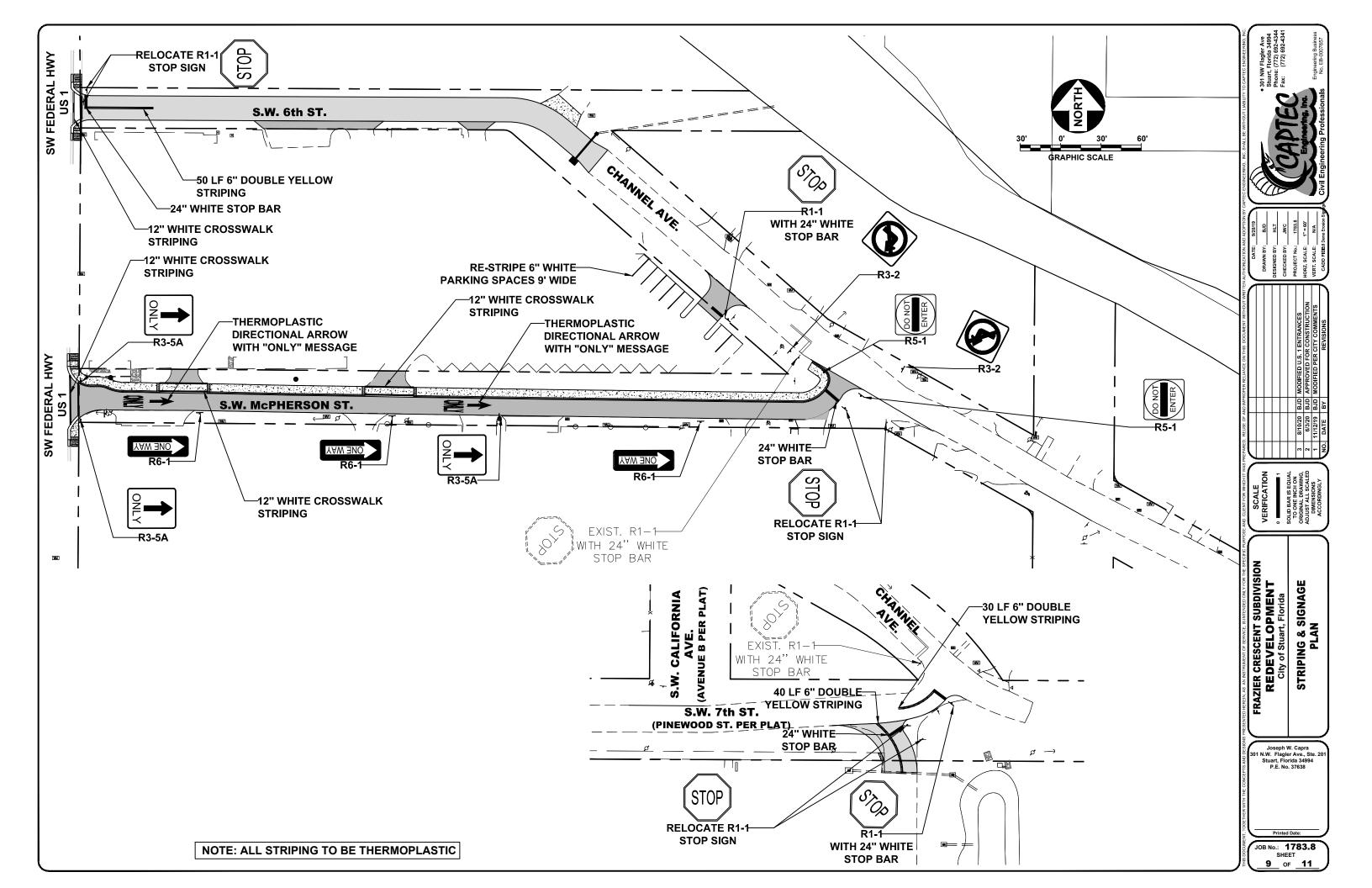


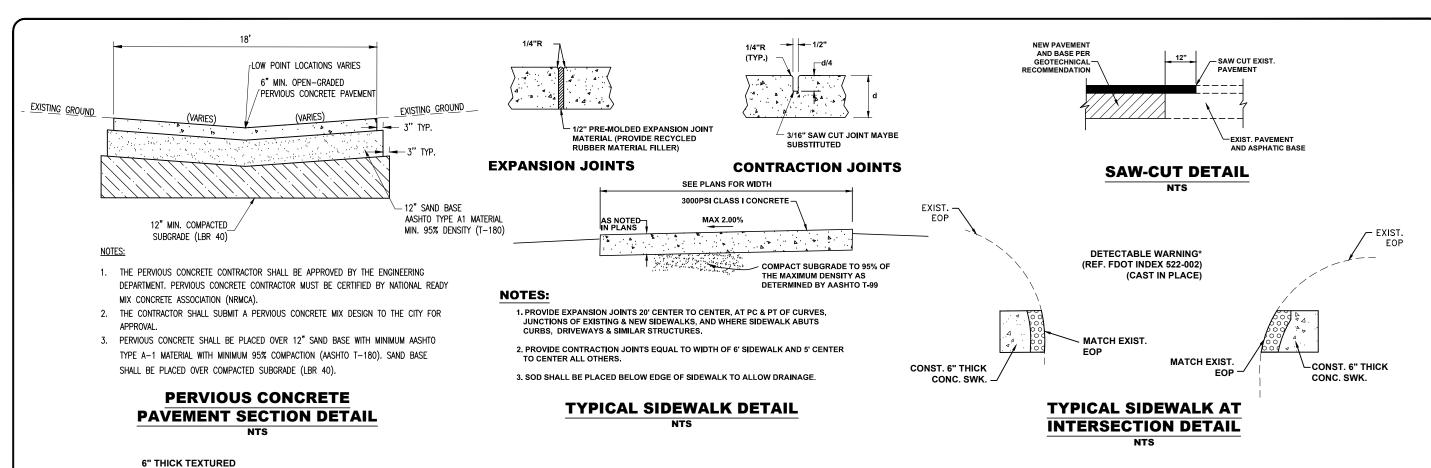












# DEPTH OF IMPRESSION 0.25" TO 0.33" (TYP.) (MATCH EXIST.) OPTIONAL BASE GROUP 6 (MIN. LBR 100)

#### STAMPED TEXTURED CONCRETE SPECIFICATIONS

#### 1.0 GENERAL

1.01 DESCRIPTION: STAMPED CONCRETE INCLUDES:

- A. MATERIALS: CONCRETE, DRY-SHAKE COLOR HARDENER (FILL TO DEPTH OF CONCRETE), CURING COMPOUND, AND SEALER.
- SPECIAL IMPRINTING AND TEXTURING TOOLS.
   CONCRETE PLACEMENT AND FINISH.
- D. COLOR HARDENER DI ACEMENT
- D. COLOR HARDENER PLACEMENT.
- E. CURING COMPOUND APPLICATION
- F. SEALER APPLICATION

1.02 RELATED WORK: TO BE COMPLETED BY A LICENSED STAMPED CONCRETE CONTRACTOR

- A. PREPARATION WORK, INCLUDING SUB-GRADE PREPARATION, FINISH GRADING, CONSTRUCTING FORMWORK, PLACING AND SETTING SCREEDS, AND FUNISHING AND PLACEMENT OF REINFORCEMENT SHALL BE DONE BY A LICENSED, QUALIFIED CONTRACTOR.
- B. PROVIDE AND PLACE CONCRET
- C. PROVIDE AND APPLY COLOR HARDENER. REGULAR GRADE COLOR HARDENER IS RECOMMENDED FOR ALL APPLICATION AREAS EXCEPT THOSE SUBJECT TO HEAVY PEDESTRIAN TRAFFIC OR HEAVY VEHICULAR TRAFFIC.
- D. PROVIDE AND APPLY RELEASE AGENTS. RELEASE AGENT IS A DRY POWDERED, COLORED AGENT USED TO FACILITATE RELEASE OF THE IMPRINTING TOOLS FROM CONCRETE SURFACE, AND TO PROVIDE MODERATE COLOR VARIATIONS TO THE TEXTURED SURFACE.
- E. PROVIDE AND APPLY IMPRINTING TOOLS.
- F. PROVIDE AND APPLY CURING COMPOUND.
- G. PROVIDE AND APPLY GROUT FOR IMPRINTED JOINTS.
- H. PROVIDE AND APPLY SEALER

#### 2.00 PRODUCTS AND MATERIALS

- THE CONCRETE HIMA DESIGN
   A. THE CONCRETE SHALL MEET ALL REQUIREMENTS OF FDOT SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2016, SECTIONS 347, 520, AND 522.
- 2.02 COLORING, IMPRINTING, CURING AND SEALING MATERIALS

- A. COLOR HARDENER: THE CONCRETE SHALL BE COLORED WITH THE FOLLOWING COLOR: MATCH EXISTING. THE GRADE OF THE HARDENER SHALL BE HEAVY DUTY. THE COLORING SHALL BE THOROUGHLY MIXED FULL DEPTH OF CONCRETE.
- B. PATTERN: THE FOLLOWING PATTERN SHALL BE USED: HERRINGBONE
- C. CURING: ALL IMPRINTED CONCRETE SLABS SHALL BE CURED.
- D. SEALER: ALL SLABS SHALL BE SEALED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

#### 3.00 EXECUTION

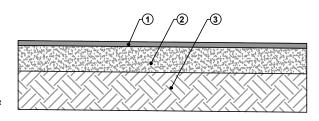
**STAMPED CONCRETE** 

**SECTION DETAIL** 

NTS

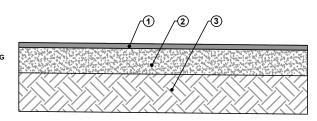
#### 3.01 INSTALLATION PROCEDURES

- A. THE AREA TO RECEIVE IMPRINTED CONCRETE SHALL HAVE THE SUB-GRADE PREPARED AS REQUIRED AS FOR ANY CONCRETE SLAB ON GRADE, PER FOOT STANDARDS
- B. THE FORMWORK SHALL BE INSTALLED IN ACCORDANCE WITH THE
- C. CONTROL JOINTS AND / OR EXPANSION JOINTS SHALL BE PROVIDED IN ACCORDANCE WITH THE DRAWINGS AND THE GUIDELINES ESTABLISHED BY THE AMERICAN CONCRETE INSTITUTE. AS WITH ANY CONCRETE SLAB, IMPRINTED CONCRETE USUALLY CONTAINS CONSTRUCTION JOINTS, CONTROL JOINTS AND EXPANSION JOINTS, THE CONTRACTOR SHALL ADVISE AND WORK WITH THE ARCHITECT / ENGINEER TO DETERMINE THE BEST LOCATION FOR THESE JOINTS TO MINIMIZE THE VISIBILITY OF THE JOINTS AND TO MINIMIZE UNSIGHTLY CRACKING.
- D. THE CONCRETE SHALL BE PLACED AND SCREEDED TO THE FINISHED GRADE, AND FLOATED TO A UNIFORM SURFACE USING STANDARD FINISHING TECHNIQUES.
- E. COLOR HARDENER SHALL BE APPLIED EVENLY TO THE FULL DEPTH OF CONCRETE USING A MINIMUM OF 60 POUNDS PER 100 SQ. FT. IT SHALL BE APPLIED IN TWO OR MORE SHAKES, FLOATED AFTER EACH SHAKE AND TROWELED ONLY AFTER THE FLOATING.
- F. WHILE THE CONCRETE IS STILL IN ITS PLASTIC STAGE OF SET, THE IMPRINTING TOOLS SHALL BE APPLIED TO THE SURFACE.
- G. CURE AND SEAL, OR APPROVED EQUAL, SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS IMMEDIATELY AFTER COMPLETING THE IMPRINTING PROCESS FOR SLABS ONLY.
- H. AFTER THE INITIAL CURING PERIOD, THE SURFACE OF THE SLAB SHALL BE SEALED.



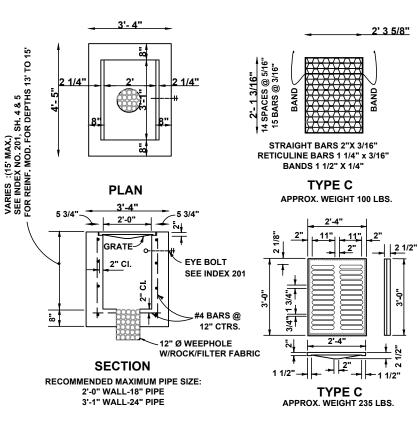
- 1 SURFACE COURSE 6" CONCRETE
- ② BASE COURSE
- OPTIONAL BASE GROUP 6, LBR 100
- ③ SUBBASE
- 12" STABILIZED SUBGRADE, LBR 40

# TYPICAL CONCRETE DRIVEWAY REPAIR SECTION DETAIL NTS



- ① SURFACE COURSE 1½" SP 9.5 ASPHALT
- 2 BASE COURSE OPTIONAL BASE GROUP 6, LBR 100
  3 SUBBASE 12" STABILIZED SUBGRADE, LBR 40

TYPICAL PAVEMENT
DRIVEWAY REPAIR
SECTION DETAIL



#### **TYPE C INLET**

NTS

REFERENCE FDOT INDEX 425-052

R CRESCENT SUBDIVISIC EDEVELOPMENT City of Stuart, Florida ZER I JOB No.: 1783.8

**10** OF **11** 

#### A. GENERAL

- 1. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE COMMENCING WORK. NO FIELD CHANGE OR DEVIATIONS FROM THE DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE ENGINEER AND THE CITY OF STUART.
- 2. THE CONTRACTOR SHALL CONTACT ALL CONCERNED UTILITIES AT LEAST TWO (2) FULL BUSINESS DAYS IN ADVANCE OF CONSTRUCTION OPERATIONS
- 3. THE LOCATION AND SIZE OF ALL EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND BASED ON THE BEST AVAILABLE INFORMATION. ADDITIONAL UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIEY ALL UTILITIES BY LECTRONIC AND BY HAND EXCAVATION IN COORDINATION WITH ALL UTILITY EXPONSIBLE FOR TO BEGINNING ANY CONSTRUCTION OPERATIONS. ANY AND ALL CONFLICTS OF EXISTING UTILITIES WITH PROPOSED IMPROVEMENTS SHALL BE RESOLVED BY THE ENGINEER AND THE OWNER PRIOR TO BEGINNING ANY CONSTRUCTION OPERATIONS. THIS WORK BY THE CONTRACTOR SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
- 4. PROJECT SUPERINTENDENT: THE CONTRACTOR SHALL PROVIDE A QUALIFIED SUPERINTENDENT TO REMAIN ON THE JOB SITE AT ALL TIMES WHEN WORK IS BEING PERFORMED. THE SUPERINTENDENT SHALL BE PRESENT AT THE PRE-CONSTRUCTION MEETING. THE CONTRACTOR SHALL NOTIFY THE LOCAL UTILITY COMPANY BY LETTER PRIOR TO THE PRE-CONSTRUCTION MEETING APPOINTING THE SUPERINTENDENT FOR THIS PROJECT INCLUDING A
- 5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE HIS/HER COMPLETE FAMILIARITY WITH THE PROJECT SITE AND COMPONENTS TO INCLUDE SUBSURFACE CONDITIONS OF SOIL AND GROUNDWATER TABLE. BY SUBMITTAL OF A BID FOR THIS PROJECT, THE CONTRACTOR ACKNOWLEDGES HIS/HER COMPLETE UNDERSTANDING AND RESPONSIBILITIES WITH RESPECT TO THE CONSTRUCTION ACTIVITIES REQUIRED UNDER THE SCOPE OF THIS
- 6. THE "TRENCH SAFETY ACT" SHALL BE INCORPORATED INTO THIS CONTRACT AS ENHANCED BY THE LEGISLATURE OF THE STATE OF FLORIDA IN EFFECT
- 7. THE CONTRACTOR SHALL PREPARE A PLAN SHOWING THE SCHEDULE OF WORK, INCLUDING A HIGHLIGHTED PLAN SHOWING THE ORDER OF CONSTRUCTION THAT WILL FACILITATE MAINTAINING EXISTING SERVICES DURING CONSTRUCTION. THIS PLAN SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION MAINTENANCE OF TRAFFIC AND STAGING PLAN.
- 8. ALL CONSTRUCTION IS TO BE IN ACCORDANCE WITH FLORIDA DEPARTMENT OF TRANSPORTATION STANDARDS 2019 AND SPECIFICATIONS, MARTIN COUNTY TRAFFIC STANDARDS, CITY OF STUART STANDARDS AND CITY OF STUART UTILITIES DEPARTMENT STANDARDS.
- 9. TELEPHONE, POWER, CABLE, WATER, SEWER, AND GAS LOCATIONS SHOWN ARE TAKEN FROM INFORMATION PROVIDED BY THAT UTILITY COMPANY. 9. TELEPHONE, POWER, CABLE, WATER, SEWER, AND GAS LOCATIONS SHOWN ARE TAKEN FROM INFORMATION PROVIDED BY THAT UTILITY COMPANY. THESE LOCATIONS HAVE NOT BEEN VERIFIED IN THE FIELD. THE CONTRACTOR IS RESPONSING FON VERIFIED IN THE FIELD. THE CONTRACTOR IS RESPONSING WITH BELLSOUTH, CABLESICATY AND FLORIDA POWER AND LIGHT ELECTRIC CONDUITS PRIOR TO BEGINNING CONSTRUCTION AND DELIVERY OF PIPE. THE CONTRACTOR IS TO USE EXTREME CAUTION WITHIN THE VICINITY OF PRIVATE UTILITY FACILITIES. THE CONTRACTOR WILL REQUEST A PRIVATE UTILITY REPRESENTATIVE'S PRESENCE DURING CONSTRUCTION IN THE VICINITY OF THEIR FACILITIES. A PROFILE OF THE PRIVATE UTILITY FACILITIES ARD OBTAINING THE APPROXIMATE LOCATION OF THESE FACILITIES.
- 10. ANY NGVD '29 MONUMENT WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF IN DANGER OF DAMAGE, THE CONTRACTOR SHOULD NOTIFY ATTN: CHARLIE NOVAC
- ATTN: M/CG -162 6001 EXECUTIVE BOULEVARD ROCKVILLE MARYLAND 20852

(301) 443-8319

- 11. ANY NAVD-1988 MONUMENT WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF IN DANGER OF DAMAGE, THE PROJECT ENGINEER SHALL
- NATIONAL GEODETIC INFORMATION CENTER ATTN: MAINTENANCE SECTION N/CG 162 **ROCKVILLE, MARYLAND 20852**
- 12. BENCH MARK DATA IS NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) FOR THIS PROJECT.
- 13. SHOP DRAWINGS ARE REQUIRED ON ALL CONSTRUCTION ITEMS. THE ENGINEER REQUIRES FIVE (5) DAYS PRIOR NOTICE TO REVIEW SHOP DRAWINGS
- 14. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE, AT ALL TIMES, ONE COPY OF THE LOCAL UTILITY COMPANY MINIMUM DESIGN AND CONSTRUCTION STANDARDS, ONE COPY OF THE CONTRACT DOCUMENTS INCLUDING PLANS, SPECIFICATIONS AND SPECIAL PROVISION, AND COPIES OF
- 15. CONTRACTOR TO UTILIZE "APPROVED FOR CONSTRUCTION PLANS" ONLY FOR CONSTRUCTION.
- 16. IF HISTORICAL OR ARCHAEOLOGICAL ARTIFACTS ARE DISCOVERED ON SITE, THE CONTRACTOR WILL IMMEDIATELY NOTIFY THE STATE HISTORICAL
- 17. CONTRACTOR SHALL SECURE AN NPDES PERMIT PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES.
- 18. PROJECT SPECIFIC SURVEY COMPLETED BY BETSY LINDSAY SURVEYING, INC.
- 19. CONTRACTOR SHALL CONTACT ALL UTILITY OWNERS AT LEAST 2 FULL BUSINESS DAYS IN ADVANCE OF ANY EXCAVATION, UTILITY OWNERS WITHIN THE PROJECT LIMITS ARE:

CITY OF STUART UTILITIES COMCAST FLORIDA POWER & LIGHT TECO/PEOPLE'S GAS

MARTIN COUNTY TRAFFIC ENGINEERING MARTIN COUNTY IT DEPARTMENT

20. ANY KNOWN OR SUSPECT HAZARDOUS MATERIAL FOLIND ON THE PROJECT BY THE CONTRACTOR SHALL BE IMMEDIATELY REPORTED TO THE 20. ANY KNOWN OR SUSPECT HAZAKIDOUS MATERIAL FOUND ON THE PROJECT BY THE KNOWN OR SUSPECT HAZAKIDOUS MATERIAL FOUND ON THE PROJECT ENGINEER, BY OF THE CONTROLL THE CONTRACTOR SPACE AS THE PROJECT ENGINEER IS TO NOTIFY THE PROJECT ENGINEER IS TO NOTIFY THE PROJECT ENGINEER IS TO NOTIFY THE PROJECT ENGINEER IN THE PROJECT ENGINEER IN THE PROSPECT AND AND THE PROSPECT HAS THE PROJECT ENGINEER IN THE THE AREA OF SUSPECTED CONTAMINATION UNTIL APPROVAL IS PROVIDED BY THE PROJECT ENGINEER AND/OR THE REGULATORY AUTHORITY."

- 21. EXCAVATION SHALL INCLUDE ALL HAULING AND DISPOSAL COST.
- 22. THE CONTRACTOR SHALL COORDINATE WITH THE PROPERTY OWNERS PRIOR TO CONSTRUCTION TO LOCATE ALL IRRIGATION FEATURES WITHIN THE PROJECT WORK LIMITS. ALL RELOCATED/DISTURBED IRRIGATION SHALL PERFORM AT EXISTING CONDITIONS OR BETTER. THE CONTRACTOR SHALL PROVIDE THE CITY OF STUART WITH AN IRRIGATION RELOCATION PRICE QUOTE PRIOR TO CONSTRUCTION. UNIT PRICES FOR ALL RELOCATED IRRIGATION ITEMS SHALL INCLUDE MATERIALS AND LABOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UNNECESSARY IRRIGATION DAMAGES
- 23. ALL DISTURBED AREAS SHALL BE REPAIRED TO EXISTING CONDITIONS OR BETTER. THE CONTRACTOR SHALL ONLY BE ENTITLED FOR PAYMENT OF RIZED AREAS WITHIN THE PROJECT WORK LIMITS. NO WORK SHALL BE ALLOWED OUTSIDE OF THE RIGHT OF WAY. THE PROJECT WORK LIMITS SHALL BE ESTABLISHED BY THE CITY OF STUART PRIOR TO CONSTRUCTION. CONTRACTOR SHALL MAKE EVERY EFFORT TO MINIMIZE UNNECESSAR'
- 24. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PLACEMENT OF ALL FINAL PAVEMENT MARKINGS SHOWN ON THE PLANS.
- 25. THE CONTRACTOR SHALL RESTRAIN ALL UTILITIES JOINTS IN ACCORDANCE WITH CITY OF STUART STANDARDS WHEN PERFORMING WORK THAT MAY COMPROMISE THE INTEGRITY OF UTILITY PIPES DURING OR AFTER CONSTRUCTION.
- 26 CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE DURING CONSTRUCTION IT IS THE CONTRACTOR'S RESPONSIBILITY TO PREVENT PONDING THAT IMPACTS PRIVATE PROPERTY, PARKING AREAS, AND/OR TRAVEL LANES.
- 27. THE CONTRACTOR IS NOT ALLOWED TO DISRUPT ANY ADJACENT PROPERTIES WITHOUT WRITTEN PERMISSION OF THE PROPERTY OWNER. IF THE CONTRACTOR DOES DISTURB ADJACENT PROPERTY INRIGATION SYSTEM, THE SYSTEM WILL TO BE REPLACED IMMEDIATELY BY THE CONTRACTOR AND IS CONSIDERED INCIDENTAL TO THE QUOTED PRICE FOR CONSTRUCTION.
- 28. CONTRACTOR IS TO PROVIDE TREE PROTECTION IN ACCORDANCE WITH THE CITY CODE. CONTRACTORS MUST COMPLY WITH THE CITY LANDSCAPE CODES. THIS ITEM IS INCIDENTAL TO THE COST OF PROJECT CONSTRUCTION.
- 29. THE CONTRACTOR SHALL MAINTAIN MAILBOXES AND MAIL SERVICE THROUGHOUT THE PROJECT AS APPROVED BY THE UNITED STATES POSTAL SERVICE. THE COST OF THIS ITEM SHALL BE INCLUDED IN THE LUMP SUM PRICE FOR MOBILIZATION
- 30. EXCEPT AS OTHERWISE PROVIDED. SAMPLING AND TESTING OF ALL MATERIALS, BACTERIOLOGICAL TESTING, AND THE LABORATORY METHODS AND TESTING EQUIPMENT REQUIRED UNDER THESE SPECIFICATIONS SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS OF THE AMERICAN SOCIETY FOR TESTING MATERIALS OR THE LATEST STANDARDS OR METHODS OF THE AMERICAN ASSOCIATION OF STATE HIGHWAY TRANSPORTATION OFFICIALS (AASHTO), AND FDEP, ALL MATERIAL TESTS WILL BE MADE BY AN INDEPENDENT TESTING LABORATORY TO BE PROVIDED BY THE CONTRACTOR. THE TESTING RESULTS WILL BE PROVIDED TO THE ENGINEER PRIOR TO PROJECT COMPLETION FOR CERTIFICATION PURPOSES. THE CONTRACTOR WILL BE RESPONSIBLE FOR A BACTERIOLOGICAL THE TESTING OF THE WATER SYSTEMS. THE COST OF SAMPLING AND TESTING IS INCLUDED IN THE COST OF EACH BID ITEM
- 31. NO LANE CLOSURES ARE ALLOWED ON US-1 WITHOUT PRIOR APPROVAL FROM THE FDOT OPERATIONS ENGINEER

#### **B. SOIL EROSION PLAN**

1. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT A SPECIFIC SOIL EROSION PLAN. IN GENERAL, THE SOIL EROSION PLAN SHALL REQUIRE THAT ALL ON-SITE SOILS WILL REMAIN ON-SITE AND WILL NOT BERODE INTO THE ADJACENT PROPERTIES, OR RETENTION DITCHES. ALL EXISTING SWALES SHALL REMAIN SODDED DURING CONSTRUCTION. THE CONTRACTOR SHALL SCARIFY ONLY AS NECESSARY TO CONSTRUCT THE PROJECT. THE CONTRACTOR SHALL SCARIFY AREAS TO PLACE VARIOUS PIPE WORK. AFTER PLACEMENT OF THE PIPE, THESE TRENCHES SHALL BE BACKFILLED AND COMPACTED TO A 98% DENSITY. PRIOR TO DISCHARGE FROM THE SITE, SILTATION BARRIERS AND HAY BALES SHALL BE BEF FLORIDA DEPARTMENT OF TRANSPORTATION INDEX 102 TO AVOID EARES. UPON COMPLETION OF THE SITE WORK, ALL AREAS SHALL BE SODDED TO AVOID EROSION WITHIN SEVEN DAYS. CONTRACTOR IS REQUIRED TO COMPLY WITH ALL STATE WATER QUALITY CRITERIA, SPECIFICALLY, NO OFF-SITE DISCHARGES WILL BE ALLOWED WHICH EXCET THE STATE TURBIDITY CRITERIA. SOO SHALL MATCH EXISTING SOD BEING REPLACED. ALL IRRIGATION LINES DISTURBED DUE TO THIS WORK SHALL BE REPAIRED WITHIN 24 HOURS OF DISTURBANCE.

2. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE GUIDELINES AND SPECIFICATIONS IN CHAPTER 6 OF THE FLORIDA LAND DEVELOPMENT MANUAL: A GUIDE TO SOUND LAND AND WATER MANAGEMENT (FLORIDA DEPARTMENT OF ENVIRONMENTA

- 1. THE SOD SHALL BE CERTIFIED TO MEET FLORIDA STATE PLANT BOARD SPECIFICATIONS, ABSOLUTELY TRUE TO VARIETY TYPE, AND FREE FROM WEEDS, FUNGUS, INSECTS AND DISEASE OF ANY KIND.
- 2. ALL SODDED AREAS SHALL BE GRASSED AS SPECIFIED ON PLANS AND SURVIVAL GUARANTEED FOR ONE YEAR FROM DATE OF REPLACEMENT IVAL OF ALL RELOCATED TREES SHALL BE GUARANTEED FOR 1 YEAR AFTER TRANSPLANTING.
- 3. ALL SOD SHALL HAVE A WARRANTY OF 1 YEAR AFTER THE FINAL COMPLETION DATE OF THE PROJECT

#### D. PAVING, GRADING AND DRAINAGE NOTES

- 1. AREAS TO RECEIVE SIDEWALK IMPROVEMENTS SHALL BE CLEARED AND GRUBBED PRIOR TO SETTING CONCRETE FORMS. SOD, ROOTS, LOGS, ROCKS, AND EXISTING EARTH SHALL BE REMOVED TO ALLOW SIDEWALK TO BE SET AT PROPER GRADE. IN ADDITION ALL TREES THAT OVERHANG THE PROPOSED SIDEWALK SHALL BE TRIMMED TO PROVIDE 7 VERTICAL CLEARANCE. ROOT BARRIER WILL BE PROVIDED ADJACENT TO OAK TREES WITHIN
- 2. FILL MATERIAL SHALL BE CLASSIFIED AS A-1, A-2, A-3 OR A-4 IN ACCORDANCE WITH AASHTO M-145 AND SHALL BE FREE FROM VEGETATION AND ORGANIC MATERIAL, NOT MORE THAN 1% BY WEIGHT OF FILL MATERIAL SHALL PASS THE NO. 200 SIEVE.
- 3. ALL INLETS AND PIPE SHALL BE PROTECTED DURING CONSTRUCTION TO PREVENT SILTATION IN THE DRAINAGE SYSTEMS BY WAY OF TEMPORARY PLUGS AND PLYWOOD OR PLASTIC COVERS OVER THE INLETS. THE ENTIRE DRAINAGE SYSTEM SHALL BE CLEANED OF ALL DEBRIS PRIOR TO FINAL
- 4. ALL PROPOSED ELEVATIONS REFER TO FINISHED GRADE.
- 5. ALL CONCRETE FOR CURBING AND SIDEWALKS SHALL BE A MINIMUM OF 3,000 PSI.

#### E. SOIL RECOMMENDATION AND REQUIREMENTS

- \* FILL SHOULD BE A UNIFORM FREE DRAINING GRANULAR SOIL (CLEAN SAND) AND BE PLACED IN LAYERS NOT TO EXCEED 12 INCHES LOOSE MEASURE AND COMPACTED AS OUTLINED ABOVE. SUFFICIENT COMPACTIVE EFFORT SHOULD BE APPLIED TO OBTAIN A MINIMUM OF 98% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY AASHTO T-180 (ASTM D-1557).
- 2 EXCAVATION AND BACKELLING
- \* WHERE EXCAVATION AND BACKFILLING ARE REQUIRED, THE SOILS SHOULD BE REMOVED TO THE SPECIFIED DEPTH. SUFFICIENT COMPACTIVE EFFORT MUST THEN BE APPLIED TO THE EXCAVATED SURFACE TO OBTAIN A MINIMUM OF 98% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY
- EFFORT MUST THEN BE APPLIED TO THE EXCAVATED SURFACE TO OBTAIN A MINIMUM OF 95% OF THE MAXIMUM DIST DENSITY AS DELECTIONED IT AS DELECTIONED IT AS ASHTO T-180 (ASTM D-1557).

  \* BACKFILL SHALL BE UNIFORM FREE DRAINING GRANULAR SOIL (CLEAN SAND) AND BE PLACED IN LAYERS NOT TO EXCEED 15 INCHES LOOSE MEASURE. SUFFICIENT COMPACTIVE EFFORT SHOULD BE APPLIED TO EACH LAYER TO OBTAIN A MINIMUM OF 98% OF THE MAXIMUM DRY DENSITY FOR THE ENTIRE AREA OF THE FILL AS DETERMINED BY ASSHOT ASSHOT OF 180 (ASTM D-1557). THE EXCAVATED SURFACE AND EACH LAYER OF BACKFILL SHOULD BE COMPACTED WITH A SELF-PROPELLED STEEL DRUM VIBRATORY ROLLER HAVING A MINIMUM TOTAL APPLIED FORCE OF 10 TONS.
- \* HEAVY RAINFALL AND/OR A HIGH WATER TABLE MAY OCCUR BEFORE THE EARTHWORK COMMENCES, OR DURING THE EARTHWORK OPERATION. WHEN THESE CONDITIONS OCCUR AND THE SITE PREPARATION CANNOT BE ACHIEVED AS SPECIFIED, AN EVALUATION OF THE EXISTING CONDITIONS SHOULD BE CONDUCTED AND THE SPECIFICATIONS REVISED ACCORDINGLY.
- 4 WHERE VIRRATORY FOLIPMENT MAY AFFECT ADJACENT STRUCTURES:
- \* WHERE THERE ARE EXISTING STRUCTURES ADJACENT TO THE SITE THAT MAY BE AFFECTED BY THE SELF-PROPELLED STEEL DRUM VIBRATORY EQUIPMENT, DENSIFICATION MUST BE PERFORMED USING EQUIPMENT THAT WILL SATISFY THE REQUIRED DENSIFICATION WITHOUT THE RISK OF EQUIPMENT, DENSIFICATION MUST BE PERFORMED USING EQUIPMENT THAT THE SAME TO THE EXISTING STRUCTURES.

  \*LOADER AND HEAVY PLATE COMPACTORS ARE TWO TYPES OF EQUIPMENT THAT HAVE BEEN USED SUCCESSFULLY. DENSIFICATION PROCEDURES
- 5. ALTERNATIVE TO SELF-PROPELLED STEEL DRUM VIBRATORY EQUIPMENT:
- \* WHEN SELF-PROPELLED STEEL DRUM VIBRATORY EQUIPMENT CANNOT BE USED AS SPECIFIED, VIBRATORY PLATE COMPACTORS MAY BE USED. WHEN THIS CONDITION OCCURS, THE OVERALL DENSIFICATION PROCEDURE MUST BE REVISED TO COMPLY WITH THE CAPABILITY OF THE EQUIPMENT EMPLOYED. IN GENERAL, SMALL PLATE COMPACTORS WILL BE FEFCTIVE TO A MAXIMUM DEPTH OF 6 TO 8 INCHES.
- 6. PAVING AREAS SUITABLE FILL MATERIAL AND THE COMPACTION OF FILL SOILS:
- \* ALL FILL MATERIAL SHOULD BE FREE OF ORGANIC MATERIALS, SUCH AS ROOTS AND VEGETATION AS A GENERAL GUIDE TO AID THE CONTRACTOR. USE FILLINGS WITH 3 TO 12 PERCENT BY DRY WEIGHT OF MATERIAL PASSING THE U.S. STANDARDS NO. 200 SIEVE SIZE. WITH PROPER MOISTURE CONTROL, THESE SOILS SHOULD DENSIFY USING VIBRATORY COMPACTION METHODS. SOILS WITH MORE THAN 12% PASSING THE NO. 200 SIEVE WILL

#### F. CONCRETE SIDEWALK SPECIFICATIONS

- 1. ALL WORK, CONCRETE AND MATERIALS SHALL COMPLY WITH THE LATEST EDITION, INCLUDING ALL REVISIONS, OF THE FOLLOWING STANDARDS AND PURI ICATION
- STANDARDS AND PUBLICATIONS
  AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO);
  AMERICAN CONCRETE INSTITUTE (ACI);
  AMERICAN SOCIETY FOR TESTING MATERIAL (ASTM);
  FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS, JULY, 2017;

- FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION JANUARY, 2017; AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG);
- 2. ALL INSTALLATION OF CONCRETE SIDEWALKS LISTED IN THE BID FORM SHALL INCLUDE THE FOLLOWING ITEMS: EXCAVATION AND DISPOSAL EQUALING THE DESIRED THICKNESS AND SQUARE FEET OF NEW CONCRETE; COMPACTION OF SUB GRADE MEETING THE FDOT STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION
- ALL CONCRETE SHALL BE 3 000 PSLUNLESS OTHERWISE NOTED:

SITE LAYOUT:

- SAW CUTS AT ALL INTERFACES WITH EXISTING PAVEMENT OR CONCRETE SURFACES; PLACEMENT AND FINISHING OF NEW CONCRETE;
- AL GRADING AND SOD, MATCHING EXISTING GRADES, FOR A WIDTH OF 18 INCHES ALONG EACH EDGE OF THE NEW CONCRETE.
- 3. ALL COSTS OF MAINTENANCE OF TRAFFIC SHALL BE INCLUDED IN UNIT COSTS LISTED IN THE BID FORM
- 4. ALL COSTS OF MOBILIZATION SHALL BE INCLUDED IN UNIT COSTS LISTED IN THE BID FORM
- 5. REMOVAL OF CONCRETE AND ASPHALT SHALL INCLUDE ALL HAULING AND DISPOSAL COST.
- 6. PRIOR TO REMOVAL OF EXISTING PAVEMENT OR CONCRETE. SAW CUTS AT THE INTERFACES MUST BE MADE TO REDUCE THE RISK OF DAMAGE TO THE REMAINING SURFACE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO PAVEMENT OR CONCRETE SURFACES. ALL DAMAGED AREAS MUST BE REPAIRED TO EXISTING CONDITIONS OR BETTER, AT THE COST OF THE CONTRACTOR, PRIOR TO
- 7. WHEN NEW CONCRETE CONSTRUCTION INTERFACES WITH EXISTING PAVEMENT OR CONCRETE, THE CONTRACTOR SHALL SAW CUIT THE
- 8. ALL ADA DETECTABLE WARNING SURFACES ON NEW CONCRETE SURFACES SHALL BE RED COLORED BRICK PAVER CAST IN PLACE DETECTABLE WARNINGS FORMED INTO NEW RAMP. DETECTABLE WARNING DEVICES SHALL BE INSTALLED PER FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, SECTION 527.

9. ALL DETECTABLE WARNING SURFACES SHALL BE INSTALLED FOLLOWING THE MANUFACTURERS' INSTRUCTIONS FOR INSTALLATION. THE CONTRACTOR SHALL OBTAIN MANUFACTURERS' INSTALLATION CERTIFICATION AND PROVIDE CITY OF STUART WITH A COPY OF THE CERTIFICATION PRIOR TO INSTALLATION. ALL DETECTABLE WARNING SURFACES WILL BE INSPECTED BY THE CITY OF STUART TO INSURE PROPER INSTALLATION IS ACHIEVED.

- 10. REPAIRS TO EXISTING SIDEWALKS SHALL BE PERFORMED "AS NEEDED" AT THE TIME OF CONSTRUCTION BY THE DISCRETION OF THE
- 11. MAXIMUM CROSS SLOPES FOR PROPOSED SIDEWALKS IS 2%. MAXIMUM LONGITUDINAL SLOPE IS 5%.

#### G. STRIPING NOTES:

1. SIGN ASSEMBLY LOCATIONS SHOWN ON THE PLANS WHICH ARE IN CONFLICT WITH LIGHTING, UTILITIES, DRIVEWAYS, LANDSCAPING WHEELCHAIR RAMPS. MAY BE ADJUSTED BY THE ENGINEER IN ACCORDANCE WITH DESIGN STANDARD NO. 711-001, WARNING SIGN LOCATION CHANGES MUST BE APPROVED BY THE CITY ENGINEER.

2. THE LOCATIONS OF THE EXISTING UTILITIES SHOWN IN THE PLANS ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VE THESE POINTS HAVE NOT BEEN VERIFIED. DXIMATE ONLY. THE VERIFIED LOCATIONS/ ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN

3. THE CONTRACTOR SHALL VERIFY IF OTHER UTILITIES (NOT SHOWN IN THE PLANS) EXIST WITHIN THE AREA OF CONSTRUCTION. SHOULD THERE BE UTILITY CONFLICTS, THE CONTRACTOR SHALL INFORM THE ENGINEER AND NOTIFY THE UTILITY OWNERS OF CONFLICTS AND ADJUSTMENTS, AS REQUIRED.

LL SIGNS AND THEIR SUPPORTS SHOWN ON THE PLAN SHEETS FOR REMOVAL, SHALL BE REMOVED COMPLETELY AND RETURNED TO CITY OF STUART PUBLIC WORKS DEPARTMENT, BY THE CONTRACTOR.

5. ALL DIMENSIONS ARE TO THE CENTER OF LONGITUDINAL MARKINGS EXCEPT EDGE LINE STRIPING WHICH SHALL BE PLACED ACCORDING TO FDOT DESIGN STANDARD NO. 17346, DIMENSIONS FOR ARROW LEGENDS EXTEND FROM THE EDGE OF STRIPING TO THE NEAR SIDE LIMIT

6. MATCH EXISTING PAVEMENT MARKINGS AT THE BEGINNING AND AT THE END OF THE PROJECT AND AT ALL SIDE STREETS. PAVEMENT MARKING QUANTITIES ARE PROVIDED TO EXTEND AND REFURBISH EXISTING STRIPING DAMAGED DURING CONSTRUCTION. REMOVAL OF THE PAVEMENT MARKING SHALL BE ACCOMPLISHED BY A COMBINATION OF SAND AND WATER BLASTING. OR ANY METHOD THAT WILL NOT NATERIALLY DAMAGE THE SURFACE TEXTURE OF THE PAVEMENT, AND WHICH WILL ELIMINATE THE PREVIOU

7. ALL PAVEMENT MARKING INCLUDING PAVEMENT MESSAGES AND DIRECTIONAL ARROWS SHALL BE THERMOPLASTIC PAVEMENT MARKING. THE MATERIALS AND INSTALLATION PROCEDURES SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION LATEST EDITION.

#### H. ENVIRONMENTAL NOTES

- IF SUSPECT CONTAMINATED OR HAZARDOUS MATERIAL IS FOUND ON THE PROJECT OR ENCOUNTERED DURING CONSTRUCTION THE CONTRACTOR SHALL CEASE OPERATIONS IN THAT AREA. IMMEDIATELY NOTIFY THE CITY'S CAPITAL PROJECT COORDINATOR (772) 221-4700 AND PROTECT THE IMMEDIATE AREA OF SUSPECT CONTAMINATED OR HAZARDOUS MATERIAL FROM FURTHER ACCESS. THE CITY'S CAPITAL PROJECTS COORDINATOR WILL ARRANGE FOR THE INVESTIGATION, IDENTIFICATION, ANDOR REMOVAL/REMEDIATION OF THE MATERIAL IN
- THE CONTRACTOR SHALL NOT BRING ANY HAZARDOUS MATERIALS ONTO THE PROJECT. SHOULD THE CONTRACTOR REQUIRE SLICH FOR • THE CONTRACTOR SHALL NOT BRING ANY HAZARDOUS MATERIALS ONTO THE PROJECT. SHOULD THE CONTRACTOR REQUIRE SUCH FOR PERFORMING THE CONTRACTED WORK, THE CONTRACTOR SHALL REQUEST, IN WRITING, WRITIEN PERMISSION FROM THE PROJECT ENGINEER. THE CONTRACTOR SHALL PROVIDE THE CITY'S CAPITAL PROJECTS COORDINATOR WITH A COPY OF THE MATERIAL SAFETY DATA SHEET (MSDS) FOR EACH HAZARDOUS MATERIAL PROPOSED FOR USE, AND PROVIDE A DESCRIPTION OF THE SPECIFIC MANNER IN WHICH THE MATERIAL WILL BE USED. THE PROJECT ENGINEER SHALL COORDINATE WITH THE CITY'S CAPITAL PROJECTS COORDINATOR PRIOR TO ISSUING WRITTEN APPROVAL TO THE CONTRACTOR. BECAUSE STATE LAW DOES NOT TREAT PETROLEUM PRODUCTS THAT ARE PROPERLY CONTAINERIZED AS HAZARDOUS MATERIALS, SUCH PRODUCTS DO NOT REQUIRE AN MOSS SUBMITTAL. ALL BULK PETROLEUM PRODUCTS STORED ON SITE SHALL REQUIRE PROPER STORAGE WHICH INCLUDES SECONDARY CONTAINMENT.
- THE CONTRACTOR SHALL COORDINATE SELECTION AND REVIEW OF ANY PROPOSED STAGING AREAS ASSOCIATED WITH THIS PROJECT WITH THE CITY'S CAPITAL PROJECT COORDINATOR (772) 221-4700.

10 DAYS PRIOR TO CROSSING EXISTING CONFLICTS, THE CONTRACTOR WILL CALL FOR LOCATES AND POT HOLE THE LOCATION OF ALL EXISTING UTILITIES TO DETERMINE THE **EXACT HORIZONTAL AND VERTICAL LOCATIONS.** 

AT&T TRENA R. JONES MGR. AT OSP PLANNING ENG. & DESIGN OFFICE

#### **UTILITY COMPANIES:**

FT. PIECE, FL 34952

COMCAST CABLE ANTHONY SPRINGSTEEL CONSTRUCTION SUPERVISOR 960 RCA BOULEVARD SUITE 6002 PALM BEACH GARDENS, FL. 33410 (561)804-0973

TECO GAS JOAN DOMNING 8416 PALM RIVER ROAD

BETSY LINDSAY, INC. ELIZABETH A LINDSAY, P.L.S. 7997 S.W. JACK JAMES DRIVE

SURVEYOR:

MARTIN COUNTY IT DEPT 2401 MONTEREY ROAD STUART, FL. 34996

120 N K STREET

LAKE WORTH, FL. 33460

MARTIN COUNTY TRAFFIC ENGINEERING 2401 MONTEREY ROAD STUART, FL. 34996 (772)288-5927

NOTE: ALL WORK TO BE COMPLETED WITHIN AND FROM EXISTING RIGHT OF WAY



IFFR OF RECORD 8 HOURS ADVANCE FOR FOLLOWING INSPECTIONS:

PRECONSTRUCTION MEETING SIDEWALK FORMS

121 SW FLAGLER AVENUE

(772) 221-4700

SUBDIVISION PMENT

AZIER CRESCENT SL REDEVELOPA City of Stuart, Flo

Joseph W. Capra 301 N.W. Flagler Ave., Ste.

JOB No.: 1783.8 **11** of **11**