

#### CERTIFICATE OF OCCUPANCY SEQUENCE

GENERAL NOTES: (applies to all Phases of Project)

- The Clubhouse & Pool (including all related foundation plantings and the sidewalk along the eastern Clubhouse & Pool boundary) will be completed prior to Building 2 Certificate of Occupancy (CO) issuance.
- 2. The preserve area exotic removal required by the PAMP shall be completed prior to any CO.
- 3. Apartment building construction sequence shall be Building No. 1, 2, 3, 4, 5, 9, 6, 7, and 8.
- 4. Paving shall be installed in two lifts of asphalt. Sequence of 1st Lift Paving shall be completed in three (3) separate mobilizations/phases. Temporary Striping shall be installed on 1st Lift to provide ample parking per MC LDR requirements for Certificate of Occupancy (CO) issuance purposes. The 2<sup>nd</sup> Lift of asphalt and Final Striping will be installed prior to the Building 8 CO.
- 5. The Pinelake Village watermain extension will be completed prior to the Building 8 CO.
- 6. All buffers within a phase shall be installed prior to any Building CO within the phase.
- 7. With the exception of the adjacent foundation plantings around each building which can be phased by building, all parking lot landscaping shall be installed and certified with the development of the associated phase parking lot infrastructure and prior to CO of any building within the phase. Landscaping within the entire phase must be inspected and approved by Martin County prior to the first CO issuance of the phase.
- 8. Foundation landscaping and irrigation shall be installed on a building by building basis for each respective Building CO. As each building is constructed, landscaping and irrigation will be installed in the surrounding area after the fine grading, paving and sidewalks are completed. The foundation landscaping and irrigation will be completed in the sequence listed above in General Note #3 for the nine (9) apartment buildings.
- 9. The 7 ft. opaque perimeter fence within Phase I and II shall be installed 10 ft. off the property line prior to the issuance of any building permits.

#### PHASE 1 – CORE INFRASTRUCTURE REQUIREMENTS FOR CLUBHOUSE, POOL & BLDG 1

- 1. Construct stabilized access and turn around area for emergency vehicles along NE Reserve Trail to temporary trailer location and to Warner Creek
- 2. Install temporary bridge across Wamer Creek to provide full site access for protected species work, erosion & sediment control BMP installation, exotic vegetation removal, and Timber Bridge construction
- 3. Construct Warner Creek Timber Bridge, Abutments, and Wingwalls
- 4. Construct By-Pass drainage pipe system from Savannah Road to Warner Creek, consisting of Structures SD-1 through SD-5, HW-1, and Control Structure CS-1
- 5. Install stabilized access for emergency vehicles on NE Reserve Trail to Dry Retention Area 5
- 6. Perform mass grading of entire site, including perimeter berms
- 7. Construct Dry Detention Areas 1 5 and Warner Creek expansion, sod and plant vegetation areas per
- construction plan details and regulatory requirements (MC, SFWMD & NPDES)
- 8. Construct infrastructure within the Phase 1 boundary limits:
  - a. Construct drainage pipe systems consisting of Structures SD-6 through SD-13
  - b. Construct Lift Station #1, force main, and sewer services to Clubhouse & Building 1 c. Construct water main, fire hydrants and water services to Clubhouse & Building 1
  - d. Install horizontal directional drill utilities under Warner Creek on north side of Timber Bridge e. Construct dry utilities, FPL, cable, phone, internet to Clubhouse & Building 1

#### PHASE 1 - CO INFRASTRUCTURE REQUIREMENTS FOR CLUBHOUSE, POOL & BLDG 1

- Construct curb, sidewalks, roadway and parking lots between Savannah Road and the Timber Bridge 2. Construct Clubhouse, Pool, Building 1, Dumpster Enclosure and Emergency Access with Knox Box
  - a. Life safety / fire suppression system
  - b. Structural / electrical / mechanical / plumbing / gas (if applicable) / lighting and ventilation
- c. Water / sewer / lift station connections d. Dry utility connections, (electrical, phone, cable TV & Internet)
- Install First Lift of Asphalt with temporary striping & signage for Phase 1 area
- 4. Complete Warner Creek grading, access turnouts, sodding, Rip Rap, guardrail, curbing, sidewalks,
- paving, and remove Warner Creek Construction temporary BMP/erosion control measures
- 5. Install landscaping for Building 1 & Clubhouse / Pool areas 6. Install Common Area Sidewalks and Bike Racks serving Phase 1
- 7. Install Street Lighting for main roadway and parking lot
- 8. Install perimeter fence and landscape buffers for Phase 1 & Phase 2 9. Install United States Postal Service mailboxes
- 10. Certification from SFWMD / FDEP / Martin County Health Department
- 11. Martin County Certificate of Occupancy for Building 1 & Clubhouse / Pool

PHASE 2 - CORE INFRASTRUCTURE REQUIREMENTS FOR BUILDINGS 2, 3 & 4

#### 12. Demobilization of Temporary Leasing Trailer within 30 days after receipt of Clubhouse CO

- 1. Construct infrastructure within the Phase 2 boundary limits:
  - a. Construct drainage pipe systems, consisting of Structures SD-14 through SD-31 and Control Structure CS-2 (Structure SD-27 may be delayed to Phase 3)
  - b. Construct force main, Lift Station #2 and sewer services to Buildings 2, 3 & 4
  - c. Construct water main, fire hydrants and water services to Buildings 2, 3 & 4 d. Construct dry utilities, FPL, cable, phone, internet services to Buildings 2, 3 & 4

#### PHASE 2 – CO INFRASTRUCTURE REQUIREMENTS FOR BUILDINGS 2, 3 & 4

- 1. Construct curb, sidewalks, roadway and parking lots to STA 28+80
- 2. Construct Buildings 2, 3 & 4
- a. Life safety / fire suppression system b. Structural / electrical / mechanical / plumbing / gas (if applicable) / lighting and ventilation
- c. Water / sewer / lift station connections d. Dry utility connections, (electrical, phone, cable TV & Internet)
- 3. Construct Parking Garages and Dumpster Enclosure
- 4. Install First Lift of Asphalt with temporary striping & signage
- 5. Install landscaping serving each Building in Phase 2
- 6. Install Common Area Sidewalks and Bike Racks serving Phase 2 7. Install Street Lighting serving main roadway and parking lots
- 8. Install United States Postal Service mailboxes
- 9. Certification from FDEP / Martin County Health Department
- 10. Martin County Certificates of Occupancy (Building by Building) for Bldgs. 2, 3 & 4

#### PHASE 3 – CORE INFRASTRUCTURE REQUIREMENTS FOR BUILDINGS 5 – 9

- 1. Construct stabilized access for emergency vehicles to STA 37+70
- 2. Construct infrastructure within the Phase 3 boundary limits: a. Construct drainage pipe systems consisting of Structures SD-32 through SD-37
- b. Construct gravity sewers and sewer services to Buildings 5 thru 9
- c. Construct water main, fire hydrants and water services to Buildings 5 thru 9 d. Construct dry utilities, FPL, cable, phone, internet to Buildings 5 thru 9

#### PHASE 3 - CO INFRASTRUCTURE REQUIREMENTS FOR BUILDINGS 5 - 9

- 1. Construct Retaining Wall behind Buildings 5 and 6
- 2. Construct Pinelake Village watermain extension 3. Construct curb, sidewalks, and parking lots serving Buildings 5 thru 9 (phased building by building)
- 4. Construct Buildings, in the following order 5, 9, 6, 7 and 8 a. Life safety / fire suppression system
- b. Structural / electrical / mechanical / plumbing / gas (if applicable) / lighting and ventilation
- c. Water / sewer / lift station connections d. Dry utility connections, (electrical, phone, cable TV & Internet)
- 5. Construct Parking Garages, Dumpster Enclosures, & Entry Features
- 6. Install First Lift of Asphalt with temporary striping & signage (phased building by building)
- 7. Install landscaping serving each Building in Phase 3 (phased building by building)
- 8. Install Common Area Sidewalks and Bike Racks serving Phase 3 building by building
- 9. Install Street Lighting serving main roadway and parking lots building by building 10. Install perimeter fence and landscape buffers serving Phase 3,
- 11. Install the railroad landscape buffer (area between the retention pond and the property line/FEC ROW)
- 12. Install United States Postal Service mailboxes
- 13. Certification from FDEP / Martin County Health Department
- 14. Martin County Certificates of Occupancy (Building by Building) for Bldgs. 5, 9, 6 & 7

#### FINAL CLOSE-OUT

- 1. Demobilization of Construction Trailer
- 2. Final Lift of Asphalt on NE Reserve Trail (all project areas prior to Building 8 CO)
- Final Lift of Asphalt on all parking lots (prior to Building 8 CO)
- Final signage and striping on all parking lots (prior to Building 8 CO)
- 5. Pinelake Village watermain completion and certification 6. Final Project close-out per Martin County requirements
- 7. Certificate of Occupancy from Martin County for Bldg. 8





301 N.W. Flagler Ave Stuart, Florida 34994 Phone: (772) 692-4344 Fax: (772) 692-4341 E-mail: captecinfo@gocaptec.com

> Engineering Business No. EB-0007657

VERT. SCALE:

DATE: 10-31-19 SCAL DRAWN BY: MDB **VERIFICA** DESIGNED BY: SPM CHECKED BY: JWC SOLID BAR IS E TO ONE INCH PROJECT No.: 1329.2 ORIGINAL DRA **ADJUST ALL SO** HORZ. SCALE: 1" = 160' DIMENSION

SCALE	(		REVISIONS	
'ERIFICATION				
1				
OLID BAR IS EQUAL				
TO ONE INCH ON RIGINAL DRAWING,				
DJUST ALL SCALED				
DIMENSIONS ACCORDINGLY	1	MDB	PERMIT PLANS	03-05-202
ACCORDINGLY	NO.	BY	DESCRIPTION	DATE

#### THE RESERVE AT JENSEN BEACH

MARTIN COUNTY, FLORIDA

**CERTIFICATE OF OCCUPANCY PHASING PLAN** 

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

CADD FILE:

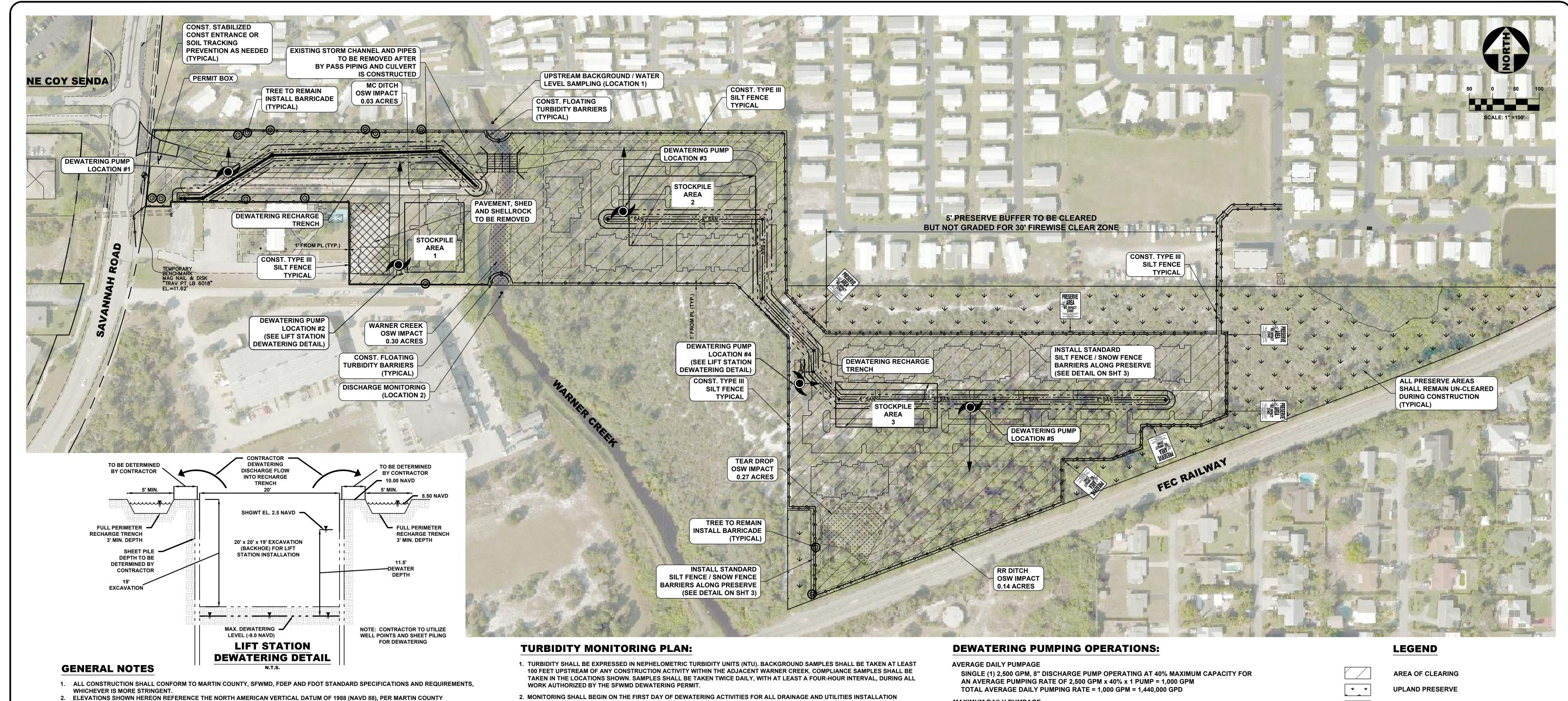
SHEET

**IDENTIFICATION** 

JOB No.: **1329.2** 

SHEET

1329.2 PHASE



- BENCHMARKS "SAV-3", ELEVATION = 13.244 FEET (NGVD 29) AND "D-30", ELEVATION = 9.771 FEET (NGVD 29) CONVERTED TO NAVD 88 BY
- 3. PROPERTY CORNERS SHALL BE LOCATED BY A LICENSED LAND SURVEYOR AND CLEARLY MARKED IN THE FIELD PRIOR TO THE MARTIN COUNTY ENGINEERING DEPT PRE-CONSTRUCTION MEETING FOR SITE DEVELOPMENT.
- 4. AUTHORIZATION TO INSTALL EROSION CONTROL DEVICES AND PRESERVE BARRICADES WILL BE GRANTED AT THE PRE-CONSTRUCTION
- MEETING. THIS AUTHORIZATION SHALL BE POSTED ONSITE IN THE PERMIT BOX, ITS LOCATION IS SHOWN IN THE PLAN VIEW ON THIS PAGE AT THE PROJECT ENTRANCE ON SAVANNAH ROAD.
- 5. NO ADDITIONAL LAND CLEARING SHALL COMMENCE UNTIL A SATISFACTORY INSPECTION OF THE REQUIRED EROSION CONTROL BARRICADES HAS BEEN OBTAINED.
- CLEARING LIMITS ARE APPROXIMATE AND WILL BE ADJUSTED ON SITE TO PRESERVE EXISTING PROTECTED TREES.
- 7. ALL CONSTRUCTION BARRICADES AND SILT FENCES WILL REMAIN IN PLACE AND SHALL BE MONITORED FOR COMPLIANCE BY THE PERMIT HOLDER DURING THE PERMITTED DEVELOPMENT ACTIVITIES.
- 8. SOIL STABILIZATION SHALL BE COMPLETED WITHIN 30 DAYS OF COMPLETION OF CONSTRUCTION ACTIVITIES CAUSING VEGETATION REMOVAL. TEMPORARY SEED AND MULCH AND/OR SOD SHALL BE APPLIED TO ALL CLEARED AREAS.
- 9. THE PROPOSED LAND CLEARING DEBRIS METHOD SHALL BE CHIPPED ON SITE FOR OFF-SITE DISPOSAL 10. CONTRACTOR WILL MAKE EVERY EFFORT TO UTILIZE EXISTING DISTURBED AND/ OR CLEARED AREAS ON SITE
- 11. ANY PROTECTED TREES WILL BE IDENTIFIED AND MITIGATED FOR ON THE LANDSCAPE PLANS PREPARED BY LUCIDO & ASSOCIATES.
- 12. ALL EXOTIC VEGETATION SHALL BE REMOVED FROM THE SITE PRIOR TO ISSUANCE OF CERTIFICATE OF OCCUPANCY FOR EACH PHASE. 13. PRIOR TO SCHEDULING A FINAL ENVIRONMENTAL INSPECTION FOR THE INFRASTRUCTURE, ALL BARRICADES AND EROSION CONTROL
- DEVICES SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR. 14. CONTRACTOR SHALL OBTAIN A MARTIN COUNTY RIGHT-OF-WAY USE PERMIT FOR ALL WORK PERFORMED WITHIN NE SAVANNAH ROAD RIGHT-OF-WAY.

#### **CLEARING AND GRUBBING**

THE CONTRACTOR WILL NOT CLEAR AND GRUB ANY SITE WITHOUT PRIOR CONFIRMATION OF WETLAND AND UPLAND PRESERVATION REQUIREMENTS. ALL PRESERVATION AREAS WILL BE FENCED TO AVOID ENCROACHMENT AND WILL BE STRICTLY ENFORCED. CAPTEC ENGINEERING INC. WILL NOT BE RESPONSIBLE FOR ENCROACHMENT BY CONTRACTOR WITHIN UPLAND PRESERVE AREAS. CONTRACTOR IS CAUTIONED TO REVIEW ALL PERMITS AND CONSTRUCTION DOCUMENTS PRIOR TO THE CLEARING/GRUBBING PHASE.

- WITHIN THE PROJECT LIMITS. MONITORING SHALL CEASE WHEN ALL DEWATERING ACTIVITIES ARE COMPLETED. THE MONITORING DATA MUST DEMONSTRATE THAT TURBIDITY NO MORE THAN 100 FEET DOWNSTREAM OF ALL PROPOSED ACTIVITIES IS LESS THAN OR EQUAL TO 29 NTU'S ABOVE NATURAL BACKGROUND TURBIDITY AND 50 FEET UPSTREAM OF EACH PROPOSED ACTIVITY DURING CONSTRUCTION AND FOR A PERIOD OF 7 CONSECUTIVE DAYS AFTER COMPLETION OF CONSTRUCTION. IF MONITORING SHOWS SUCH LEVELS TO BE EXCEEDED, CONSTRUCTION SHALL CEASE AND DISTRICT COMPLIANCE STAFF SHALL BE NOTIFIED IMMEDIATELY. WORK SHALL NOT RESUME UNTIL DISTRICT STAFF IS SATISFIED THAT ADEQUATE CORRECTIVE MEASURES HAVE BEEN TAKEN AND TURBIDITY HAS RETURNED TO ACCEPTABLE LEVELS.
- 3. ALL MONITORING DATA SHALL BE MAINTAINED ON SITE AND BE AVAILABLE TO SFWMD STAFF DURING REGULAR BUSINESS HOURS. THE CONTENT FOR THE DATA SHALL INCLUDE:
- A. PERMIT AND APPLICATION NUMBER;
- B. DATES OF SAMPLING AND ANALYSIS;
- C. STATEMENT DESCRIBING THE METHODS USED IN COLLECTION, HANDLING, STORAGE AND ANALYSIS OF THE SAMPLES;
- D. A MAP INDICATING THE SAMPLING LOCATIONS; AND
- E. A STATEMENT BY THE INDIVIDUAL RESPONSIBLE FOR IMPLEMENTATION OF THE SAMPLING PROGRAM CONCERNING THE AUTHENTICITY, PRECISION, LIMITS OF DETECTION AND ACCURACY OF THE DATA.
- 4. MONITORING REPORTS SHALL ALSO INCLUDE THE FOLLOWING INFORMATION FOR EACH SAMPLE THAT IS TAKEN:
- A. TIME OF DAY SAMPLES TAKEN;
- B. DEPTH OF WATER BODY;
- C. DEPTH OF SAMPLES;
- D. ANTECEDENT WEATHER CONDITIONS;
- E. WIND DIRECTION AND VELOCITY.

- SINGLE (1) 2,500 GPM, 8" DISCHARGE PUMP OPERATING AT 80% MAXIMUM CAPACITY FOR A MAXIMUM PUMPING RATE OF 2,500 GPM x 80% x 1 PUMP = 2,000 GPM
- TOTAL MAXIMUM DAILY PUMPING RATE = 2,000 GPM = 2,880,000 GPD
- TOTAL PUMPAGE = AVG DAILY x 180 DAYS = 1.44 MGD x 180 DAYS = 259,200,000 GALLONS

#### **DEWATERING NOTES:**

- 1. PRIOR TO DEWATERING ALL SILT FENCE/TURBIDITY BARRIERS, ORANGE SAFETY FENCE SHALL BE CONSTRUCTED. CONTACT SFWMD REPRESENTATIVE (GUY BOISCLAIR @ (863) 462-5260 ext. 3613) PRIOR TO TURNING ON PUMPS.
- 2. IN THE EVENT OF A SIGNIFICANT STORM, ALL DEWATERING ACTIVITIES SHALL CEASE AND ALL PIPE PLUGS/DITCH
- **BLOCKS SHALL BE REMOVED.**
- 3. DISCHARGE DEWATERING INTO ADJACENT DITCH/DRY RETENTION AREAS TO THE MAXIMUM EXTENT FEASIBLE PRIOR TO DISCHARGING OFF-SITE. REFER TO TURBIDITY MONITORING NOTES AND SAMPLING LOCATIONS PLAN ON THIS SHEET.

#### ORDER OF EXCAVATION

- 1. INSTALL SILT FENCES AND ORANGE SAFETY FENCES AFTER THE PRE-CONSTRUCTION MEETING.
- 2. BEGIN CLEARING AND GRUBBING, MASS GRADING & INSTALL BRIDGE.
- 3. CONSTRUCT RETENTION AREAS AND CONTROL STRUCTURES AND SOD ALL SIDE SLOPES.
- 4. INSTALL WELL POINTS OR UNDERGROUND SOCK DRAINS AS NEEDED.
- 5. SET DEWATERING PUMPS AS NEEDED FOR UTILITY AND DRAINAGE SYSTEM TRENCH EXCAVATION AND INSTALLATION.

**OSW (OTHER SURFACE WATERS)** 



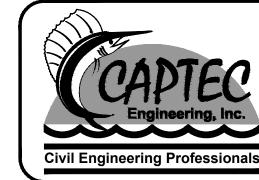
PROPOSED SNOW FENCE PRESERVE BARRICADE

PROPOSED STABILIZED CONSTRUCTION ENTRANCE

TREE TO REMAIN INSTALL BARRICADE

PRESERVE SIGN LOCATIONS





301 N.W. Flagler Ave Stuart, Florida 34994 Phone: (772) 692-4344 Fax: (772) 692-4341

E-mail: captecinfo@gocaptec.con No. EB-0007657

DATE: 03-27-2020 DRAWN BY: \_\_\_\_MDB DESIGNED BY: SPM CHECKED BY: JWC PROJECT No.: 1329.2 HORZ. SCALE: 1" = 100' VERT. SCALE:

REVISIONS SCALE **VERIFICATION SOLID BAR IS EQUAL** TO ONE INCH ON ORIGINAL DRAWING, **ADJUST ALL SCALED** DIMENSIONS 03-27-2020 PERMIT PLANS **ACCORDINGLY DESCRIPTION** 

#### THE RESERVE AT JENSEN BEACH

MARTIN COUNTY, FLORIDA

EROSION CONTROL, CLEARING & DEWATERING PLAN

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

SHEET **IDENTIFICATION** JOB No.: **1329.2** 

1329.2 CLEARING SWPPP CADD FILE:

SHEET

# Construction Plans and Specifications Of

## THE RESERVE AT JENSEN BEACH

## **MULTI-FAMILY APARTMENTS**

Lying In
Section 27, Township 37 South,
Range 41 East
Martin County, Florida

# PENSACOLA TALLAHASSEE GAINESVILLE PALATKA ORLANDO SAFETY HARBOR Project Location FT. PIERCE STUART JUPITER WEST PALM BEACH FT. MYERS MIAMI

## **Location Map**

#### **NOTES:**

THESE PLANS ARE IN ENGLISH UNITS
ALL ELEVATIONS HEREIN REFERENCE N.A.V.D.
1988 DATUM. ADD 1.50 FEET TO CONVERT TO
N.G.V.D. 1929 DATUM. ALL CONSTRUCTION IS TO
BE IN ACCORDANCE WITH FLORIDA DEPARTMENT
OF TRANSPORTATION STANDARDS AND
SPECIFICATIONS.

## **DEVELOPER**

STEPHEN COHEN
JENSEN CAP INVESTMENTS, LLC
1054 GATEWAY BLVD, STE 107
BOYNTON BEACH, FLORIDA 33426
PHONE: (561) 789-5558

#### **ENGINEER**

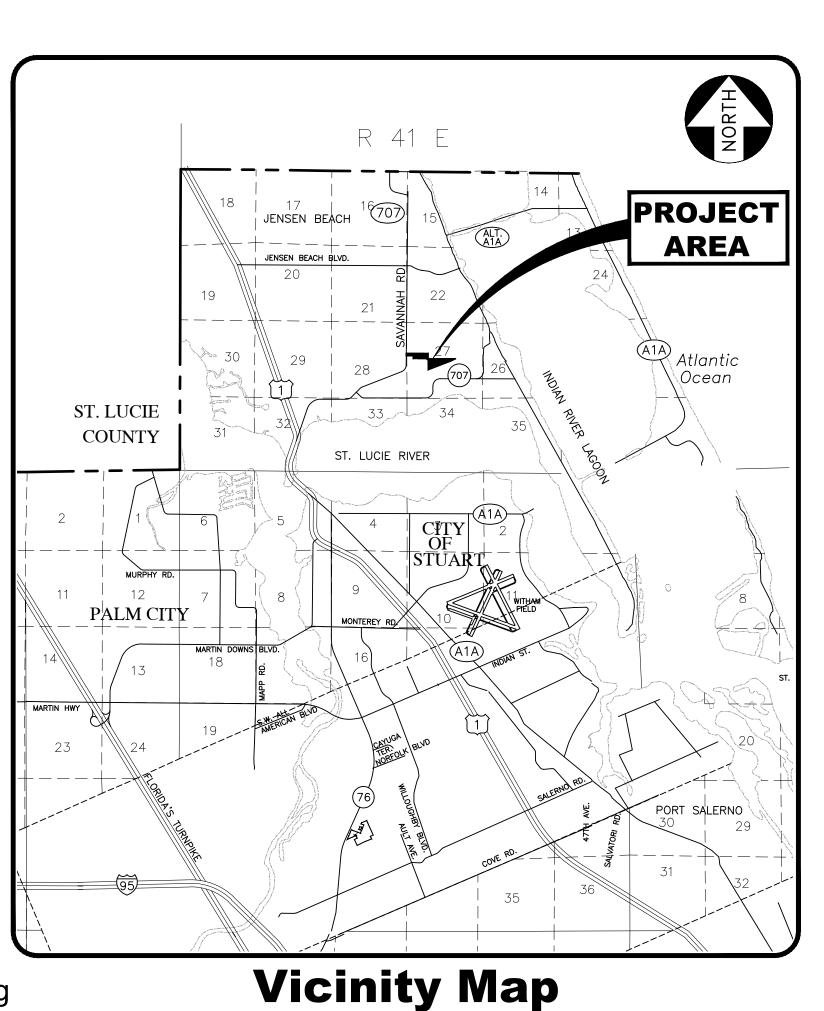
JOSEPH W. CAPRA, P.E. #37638 CAPTEC ENGINEERING, INC. 301 N.W. FLAGLER AVENUE STUART, FLORIDA 34994 PHONE: (772)-692-4344 FAX: (772)-692-4341



Civil Engineering
Professionals

Engineering Business
No. EB-0007657

301 N.W. Flagler Avenue
Stuart, Florida 34994
Phone: (772) 692-4344
Fax: (772) 692-4341



PROJECT LOCATION

ST. LUCIE RIVER

Site Map

## **SHEET INDEX**

#### **NUMBER - TITLE**

- 1 COVE
- 2 EROSION CONTROL, CLEARING & DEWATERING PLAN
- 3 EROSION CONTROL DETAILS
- 4 CERTIFICATE OF OCCUPANCY PHASING PLAN
- **5 HORIZONTAL CONTROL AND MARKING**
- **6 OVERALL DRAINAGE AND UTILITY**
- 7 PAVING, GRADING AND DRAINAGE PLA
- 8 PAVING, GRADING AND DRAINAGE PLA
- 9 PAVING, GRADING AND DRAINAGE PLAN
- 10 BRIDGE PLAN VIEW
- 11 SECTIONS
- 12 TYPICAL SECTIONS AND CONTROL STRUCTURES
- 13 UTILITY PLAN VIEW
- 14 UTILITY PLAN VIEW
- 15 UTILITY PLAN VIEW
- 16 PINELAKE VILLAGE WATER MAIN CONNECTION
- 17 WARNER CREEK UTILITY CROSSING
- 18 UTILITY PROFILE
- 19 UTILITY PROFILE
- 20 LIFT STATION NO. 1
- 21 LIFT STATION NO. 2
- 22 PAVING AND GRADING DETAILS
- 23 PAVING AND GRADING DETAILS
- 24 GENERAL NOTES
- 25 WATER STANDARD DETAILS
- **26 SANITARY STANDARD DETAILS**
- 27 SANITARY STANDARD DETAILS 2
- 28 NOTES

**PERMIT PLANS 03-27-2020** 

Project No. 1329.2 THE RESERVE AT JENSEN BEACH

**DESCRIPTION** 

UPSTREAM BACKGROUND / WATER

CONST. TYPE III

SILT FENCE

**TYPICAL** 

**DEWATERING PUMP LOCATION #3** 

**STOCKPILE** 

**DEWATERING PUMP** 

**DEWATERING DETAIL)** 

(SEE LIFT STATION

**CONST. TYPE III** 

**LOCATION #4** 

03-27-2020

**DEWATERING RECHARGE** 

LEVEL SAMPLING (LOCATION 1)

CONST. FLOATING

(TYPICAL)

AND SHELLROCK

TO BE REMOVED

TURBIDITY BARRIERS

5' PRESERVE BUFFER TO BE CLEARED

**BUT NOT GRADED FOR 30' FIREWISE CLEAR ZONE** 

SINGLE (1) 2,500 GPM, 8" DISCHARGE PUMP OPERATING AT 40% MAXIMUM CAPACITY FOR AN AVERAGE PUMPING RATE OF 2,500 GPM x 40% x 1 PUMP = 1,000 GPM

**CONST. TYPE III** 

SILT FENCE

**TYPICAL** 

SINGLE (1) 2,500 GPM, 8" DISCHARGE PUMP OPERATING AT 80% MAXIMUM CAPACITY FOR

INSTALL STANDARD

(SEE DETAIL ON SHT 3)

SILT FENCE / SNOW FENCE

BARRIERS ALONG PRESERVE

A MAXIMUM PUMPING RATE OF 2,500 GPM x 80% x 1 PUMP = 2,000 GPM

- 1. PRIOR TO DEWATERING ALL SILT FENCE/TURBIDITY BARRIERS, ORANGE SAFETY FENCE SHALL BE CONSTRUCTED. CONTACT SFWMD REPRESENTATIVE (GUY BOISCLAIR @ (863) 462-5260 ext. 3613) PRIOR TO TURNING ON PUMPS.
- 2. IN THE EVENT OF A SIGNIFICANT STORM, ALL DEWATERING ACTIVITIES SHALL CEASE AND ALL PIPE PLUGS/DITCH
- 3. DISCHARGE DEWATERING INTO ADJACENT DITCH/DRY RETENTION AREAS TO THE MAXIMUM EXTENT FEASIBLE PRIOR TO DISCHARGING OFF-SITE. REFER TO TURBIDITY MONITORING NOTES AND SAMPLING LOCATIONS PLAN ON THIS SHEET.
- 1. INSTALL SILT FENCES AND ORANGE SAFETY FENCES AFTER THE PRE-CONSTRUCTION MEETING.
- 3. CONSTRUCT RETENTION AREAS AND CONTROL STRUCTURES AND SOD ALL SIDE SLOPES.
- 4. INSTALL WELL POINTS OR UNDERGROUND SOCK DRAINS AS NEEDED.
- 5. SET DEWATERING PUMPS AS NEEDED FOR UTILITY AND DRAINAGE SYSTEM TRENCH EXCAVATION AND INSTALLATION.



PROPOSED SNOW FENCE PRESERVE BARRICADE

PROPOSED STABILIZED CONSTRUCTION ENTRANCE

**ALL PRESERVE AREAS** 

**DURING CONSTRUCTION** 

(TYPICAL)

**LEGEND** 

→ PROPOSED SILT FENCE

**AREA OF CLEARING** 

**UPLAND PRESERVE** 

**OSW (OTHER SURFACE WATERS)** 

PRESERVE SIGN LOCATIONS

TREE TO REMAIN INSTALL BARRICADE

**SHALL REMAIN UN-CLEARED** 



No. EB-0007657

**CONST ENTRANCE OR SOIL TRACKING** 

(TYPICAL)

**NE COY SENDA** 

**DEWATERING PUMP** 

**LOCATION #1** 

PERMIT BOX

PREVENTION AS NEEDED

**EXISTING STORM CHANNEL AND PIPES** 

TREE TO REMAIN

(TYPICAL)

**DEWATERING RECHARGE** 

CONST. TYPE III

SILT FENCE

**DEWATERING PUMP** 

**DEWATERING DETAIL)** 

**LOCATION #2** (SEE LIFT STATION

**TYPICAL** 

TRENCH

1' FROM PL (TYP

**INSTALL BARRICADE** 

TO BE REMOVED AFTER

IS CONSTRUCTED

0.30 ACRES

(TYPICAL)

**CONST. FLOATING** 

DISCHARGE MONITORING

**TURBIDITY BARRIERS** 

MC DITCH

OSW IMPACT

0.03 ACRES

BY PASS PIPING AND CULVERT

HORZ. SCALE: 1" = 100' VERT. SCALE:

**ADJUST ALL SCALED** DIMENSIONS | MDB | PERMIT PLANS **ACCORDINGLY** 

THE RESERVE AT JENSEN BEACH

EROSION CONTROL, CLEARING & DEWATERING PLAN

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

**IDENTIFICATION** JOB No.: **1329.2** 

SHEET

SHEET

1329.2 CLEARING SWPPP CADD FILE:

#### 1.0 SITE DESCRIPTION

1.A. NATURE OF CONSTRUCTION ACTIVITY

CONSTRUCTION ACTIVITIES CONSIST OF THE CONSTRUCTION OF NINE (9) MULTI-FAMILY RESIDENTIAL APARTMENT BUILDINGS ALONG WITH ASSOCIATED PAVEMENT, SIDEWALKS, UTILITIES, LANDSCAPING, ETC. ON 23.01 ACRES WITHIN MARTIN COUNTY, FLORIDA.

#### 1.B. SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:

THE FOLLOWING SEQUENCES OF MAJOR ACTIVITIES SHALL BE FOLLOWED UNLESS THE CONTRACTOR CAN PROPOSE AN ALTERNATIVE THAT IS EQUAL OR EXCEEDS THE EROSION AND SEDIMENT CONTROL PRACTICES DESCRIBED IN THIS DOCUMENT, AND APPROVED BY THE ENGINEER. THE DETAILED SEQUENCE FOR THE ENTIRE PROJECT CAN VARY SIGNIFICANTLY FROM CONTRACTOR TO CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A DETAILED SEQUENCE OF CONSTRUCTION FOR ALL CONSTRUCTION ACTIVITIES.

- 1. PLACEMENT OF ALL EROSION CONTROL DEVICES
- 2. CLEARING AND GRUBBING, EARTHWORK AND EXCAVATION OF PONDS SANITARY AND STORM SEWER CONSTRUCTION; ALL STORM SEWERS SHALL BE CONSTRUCTED IN THE UPSTREAM DIRECTION.
- 4. EARTHWORK ASSOCIATED WITH CURB, SUBGRADE, BASE AND PAVEMENT. 5. FINAL SODDING OF THE UNPAVED PROJECT AREAS NOTED IN THE PLANS

#### 1.C. AREA ESTIMATED

1.D. RUNOFF DATA:

**TOTAL SITE AREA: 23.01± ACRES** TOTAL AREA TO BE DISTURBED: 16.58± ACRES

RUNOFF COEFFICIENTS: BEFORE: 0.15 **DURING: 0.20-0.6** AFTER: 0.70

#### SOILS DATA:

THE SOILS ARE FINE SAND TO CLEAN SANDS. THE SMALL SAND PARTICLE SIZE WILL MAKE THE POTENTIAL FOR EROSION HIGH.

DRAINAGE AREAS FOR EACH OUTFALL THE PROJECT HAS 2 OUTFALLS INTO WARNER CREEK

THE CONSTRUCTION PLANS WILL SUBSTITUTE AS SITE MAPS. LOCATIONS OF THE REQUIRED INFORMATION ARE DESCRIBED BELOW.

#### THE DRAINAGE FLOW DIRECTIONS ARE SHOWN ON THE OVERALL DRAINAGE PLAN AND PAVING GRADING & DRAINAGE PLAN SHEETS.

THE SLOPES OF THE SITE CAN BE SEEN IN THE THE OVERALL DRAINAGE PLAN, PAVING, GRADING & DRAINAGE PLAN SHEETS AND SECTIONS.

#### THE AREAS TO BE DISTURBED ARE INDICATED ON THE THE OVERALL DRAINAGE PLAN, PAVING GRADING & DRAINAGE PLAN SHEETS AND

**AREAS NOT TO BE DISTURBED:** PRESERVE AREAS AND PRESERVE BUFFERS (UNLESS REQUIRED FOR FIRE WISE SETBACK)

#### LOCATION CONTROLS:

THESE ARE SHOWN ON THE HORIZONTAL CONTROL PLAN SHEETS.

TEMPORARY STABILIZATION PRACTICES ARE ALSO SHOWN ON THE PLANS, IF APPLICABLE. AREAS OF PERMANENT STABILIZATION ARE SHOWN ON THE OVERALL DRAINAGE PLAN, PAVING GRADING & DRAINAGE PLAN SHEETS AND SECTIONS.

SURFACE WATER DISCHARGE IS SHOWN ON THE OVERALL DRAINAGE PLAN, PAVING GRADING & DRAINAGE PLAN SHEETS AND SECTIONS. THE SURFACE WATER OF THE PROJECT WILL DISCHARGE TO THE ON-SITE DETENTION AREAS DURING CONSTRUCTION, AND WILL DISCHARGE TO WARNER CREEK FOLLOWING CONSTRUCTION COMPLETION.

1.F. RECEIVING WATERS:

THE SURFACE WATERS OF THE PROJECT WILL DISCHARGE DIRECTLY INTO WARNER CREEK FOLLOWING CONSTRUCTION. WARNER CREEK OUTFALLS INTO THE ST. LUCIE RIVER.

#### 2.0 CONTROLS:

#### 2.A. EROSION AND SEDIMENT CONTROLS:

THE FOLLOWING DEFINES GENERAL QUANTITIES FOR THE SEQUENCE OF CONSTRUCTION AND THE STABILIZATION AND STRUCTURAL PRACTICES. THE CONTRACTOR IS ALSO RESPONSIBLE FOR DOCUMENTING THIS PORTION OF THE SWPP. THE CONSTRUCTION OF THIS PROJECT IS EXPECTED TO

INSTALL STABILIZED CONSTRUCTION ENTRANCES AT ALL AREAS WHERE CONSTRUCTION VEHICLES WILL BE ENTERING AND EXITING THE

INSTALL SILT FENCE, TYPE III, AROUND ALL DITCH BOTTOM INLETS ON THE PROJECT, AND THE PROJECT PERIMETER. FILTER CLOTH UNDER THE GRATES ON CATCH BASINS MAY BE USED IN LIEU OF SILT FENCE AROUND INLETS.

#### 2.A.1 STABILIZATION PRACTICES:

TEMPORARY: SEED AND MULCH, AND SOD IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS SECTION 104.

ALL STABILIZATION PRACTICES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARY OR PERMANENTLY CHANGED, BUT IN NO CASE MORE THAN 7 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY CEASED. THE CONTRACTOR IS ALSO RESPONSIBLE FOR DOCUMENTING THIS PORTION OF THE SWPPP.

#### 2.A.2 STRUCTURAL PRACTICES:

#### **TEMPORARY** SILT FENCE PER DETAIL

STAKED TURBIDITY BARRIER PER DETAIL SOIL TRACKING PREVENTION DEVICE PER DETAIL. A STABILIZED CONSTRUCTION ENTRANCE TO BE CONSTRUCTED PER DETAIL. ALL SEDIMENT CONTROLS SHALL BE IN PLACE PRIOR TO ANY SOIL DISTURBING ACTIVITY UPSTREAM OF THE

#### 2.B STORMWATER MANAGEMENT

STORMWATER WILL BE CONVEYED IN STORM SEWER SYSTEM, CROSS DETAILS, AND SWALES TO STORMWATER RETENTION/DETENTION PONDS.

#### 2.C OTHER CONTROLS:

2.C.1 WASTE DISPOSAL:

THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DOCUMENTING THIS PORTION OF THE SWPP

#### 2.C.2 OFF-SITE VEHICLE TRACKING:

THE CONTRACTOR IS RESPONSIBLE FOR DOCUMENTING THIS PORTION IF THE SWPP.

#### 2.C.3 STATE AND LOCAL REGULATION FOR WASTE DISPOSAL, SANITARY SEWER, OR SEPTIC TANK REGULATIONS:

THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DOCUMENTING THIS PORTION OF THE SWPP

#### 2.D STATE AND LOCAL PERMIT

THIS PROJECT REQUIRES A SOUTH FLORIDA WATER MANAGMENT DISTRICT (SFWMD) SURFACE WATER MANAGEMENT ENVIRONMENTAL RESOURCE

#### 3.0 MAINTENANCE:

MAINTENANCE PROPOSED REPLACEMENT INTERVAL SILT FENCE IN ACCORDANCE WITH FDOT **SPECIFICATION SECTION 104** 6 MONTHS **REMOVE SEDIMENT WHEN IT** BECOMES 0.15M (6") DEEP.

**REACHES 1/2 HEIGHT OF BALES.** THE CONTRACTOR SHALL MAINTAIN RAIN GAUGES ON-SITE AND RECORD DAILY RAINFALL. THE CONTRACTOR IS ALSO RESPONSIBLE FOR DOCUMENTING THIS PORTION OF THE FDOT STANDARD SPECIFICATIONS SECTION 104 EROSION CONTROL PLAN.

#### 4.0 INSPECTIONS:

SYNTHETIC BALES

QUALIFIED PERSONNEL SHALL INSPECT THE FOLLOWING ITEMS AT LEASE ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.50 INCHES OR GREATER. WHERE SITES HAVE BEEN PERMANENTLY STABILIZED, INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH. INSPECTION LOCATIONS INCLUDE (AT A MINIMUM):

3 MONTHS

#### POINTS OF DISCHARGE TO WATERS OF THE UNITED STATES.

POINTS OF DISCHARGE TO MUNICIPAL SEPARATE STORM DRAIN SYSTEMS.

REMOVE SEDIMENT WHEN IT

#### DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED.

AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION

#### STRUCTURAL CONTROLS.

STORMWATER MANAGEMENT SYSTEMS.

LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE.

#### 5.0 NON-STORMWATER DISCHARGES:

THE CONTRACTOR IS REQUIRED TO SUBMIT A DEWATERING PLAN TO SFWMD FOR APPROVAL PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES THAT REQUIRE DEWATERING. THIS PLAN SHALL INCLUDE ANY STOCKPILE AREAS AND EXCAVATION AREA.SEE SFWMD RULE 4D D2 CONSUMPTION USE OF WATER, RULE 4D D-3 REGULATION WELLS SPECIFYING REQUIREMENTS FOR DEWATERING AND ERP APPLICATION SECTION E, SUBSECTION D CONSTRUCTION SCHEDULE AND TECHNIQUES.

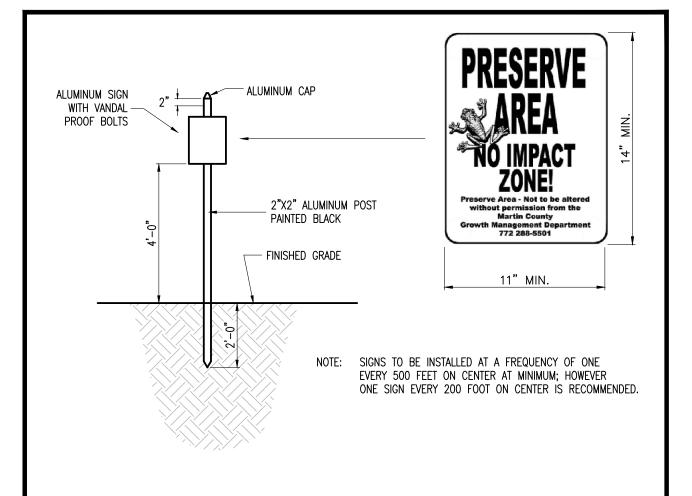
THE CONTRACTOR IS RESPONSIBLE FOR DOCUMENTING THIS PORTION OF THE SWPP. IF CONTAMINATED SOIL OR GROUNDWATER IS ENCOUNTERED, CONTACT THE DISTRICT HAZARDOUS MATERIALS COORDINATOR.

#### **6.0 RESPONSIBLE ENTITIES**

THIS SWPP MUST CLEARLY IDENTIFY, FOR EACH MEASURE IDENTIFIED WITHIN THE SWPP, THE CONTRACTOR (S) OR SUBCONTRACTOR (S) THAT WILL IMPLEMENT EACH MEASURE. ALL CONTRACTOR (S) AND SUBCONTRACTOR (S) THAT WILL BE RESPONSIBLE FOR THE IMPLEMENTATION AND MAINTENANCE OF THE MEASURES IDENTIFIED IN THE SWPP MUST SIGN THE FOLLOWING CERTIFICATION:

"I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND, AND SHALL COMPLY WITH, THE TERMS AND CONDITIONS OF THE STATE OF FLORIDA GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES AND THIS STORMWATER POLLUTION PREVENTION PLAN PREPARED THERE UNDER."

NAME AND TITLE	COMPANY NAME, ADDRESS, AND PHONE NUMBER	RESPONSIBLE ITEMS	DATE



#### NOTES:

- 1. THE STRUCTURAL INTEGRITY OF THE SIGNS SHALL BE THE RESPONSIBILITY OF THE SIGN MANUFACTURER.
- THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR FABRICATION. 5. FASTENERS AND ATTACHMENTS SHALL BE NON-CORROSIVE AND NON-CONDUCTIVE AND INSULATED WHEN JOINING
- NON-COMPATIBLE MATERIALS. 4. COLORS SHALL BE SELECTED BY THE OWNER.
- 5. ALL SIGNS AND COMPONENTS SHALL BE OF TOP QUALITY WORKMANSHIP AND MATERIALS, AND BE FREE OR DEFECTS. DEFECTIVE IS DEFINED TO INCLUDE DELAMINATION, ABNORMAL DETERIORATION, FADING AND DISCOLORATION, WEATHERING, FAILURE OF SECURING TO SUBSTRATES, CRACKING, CORROSION, OR COATING DAMAGE, OR VISIBLE SCRATCHES ON THE
- 6. SIGNAGE SHALL NOT BEAR MANUFACTURER'S CODE OR OTHER IDENTIFYING MARKS ON ANY AREA OR PART WHICH MAY BE VISIBLE TO THE NORMAL POSITION, ATTITUDE, OR USE OF THE SIGN ITEM.
- PROVIDE SCALED DRAWINGS OF ALL ELEMENTS AND ACTUAL PAINTED SAMPLES OF ALL MATERIALS FOR APPROVAL.
- . ALL SIGNS SHALL BE CONSTRUCTED OF VANDAL-RESISTANT CONSTRUCTION MATERIALS, METHODS, AND ATTACHMENTS.

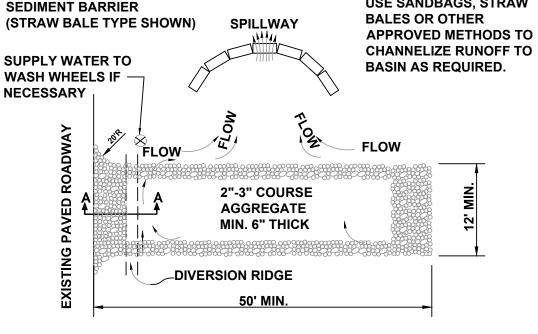


MARTIN COUNTY ENGINEERING - STANDARD DETAILS P-40 PRESERVE AREA SIGN

EXISTING PAVED ROADWAY SECTION A-A FILTER FABRIC

**DIVERSION RIDGE REQUIRED** 

WHERE GRADE EXCEEDS 2%

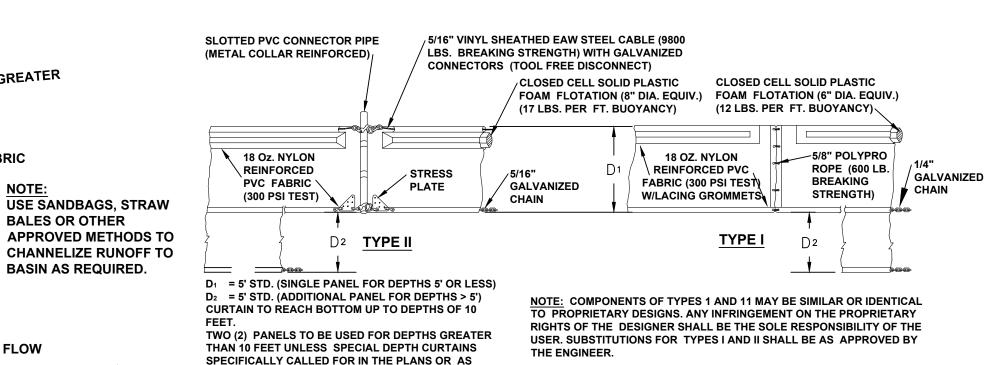


1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

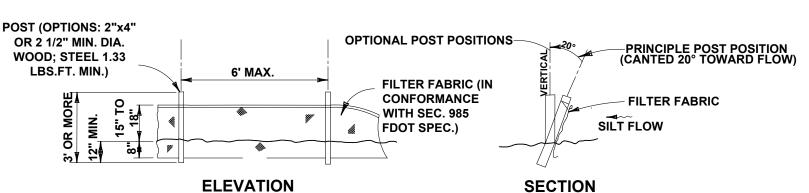
ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. 3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT BASIN.

2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO

#### **STABILIZED CONSTRUCTION ENTRANCE**

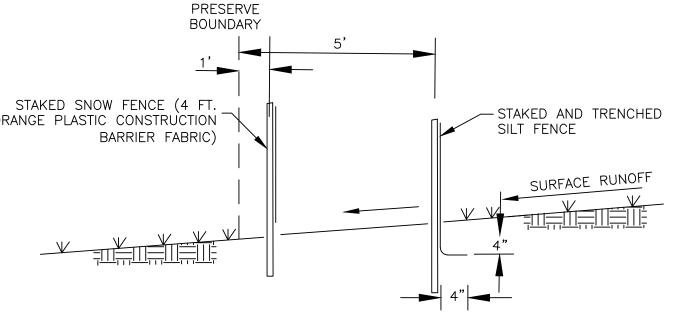


#### **FLOATING TURBIDITY BARRIER**



NOTE: SILT FENCE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR STAKED FENCE (LF)

#### TYPE III SILT FENCE



## STANDARD SILT FENCE / SNOW FENCE DETAIL

TRENCH WITH NATIVE BACKFILL

CROWN DRIP LINE OR OTHER LIMIT

OF TREE PROTECTION AREA. SEE

LANDSCAPE PLAN FOR

TREE PROTECTION BARRICADE

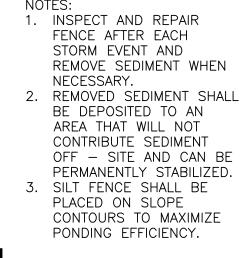
3- NO PRUNING SHALL BE PERFORMED EXCEPT BY APPROVED ARBORIST.

4- NO EQUIPMENT SHALL OPERATE INSIDE THE PROTECTIVE FENCING INCLUDING DURING

1- SEE LANDSCAPE PLAN FOR FENCE ALIGNMENT.

FENCE INSTALLATION AND REMOVAL.

FENCE ALIGNMENT



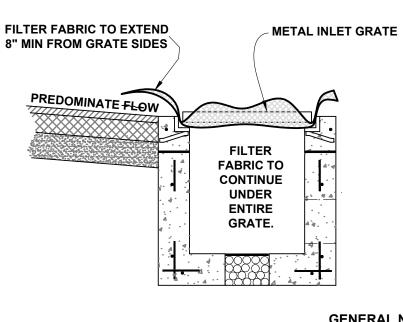
DETERMINED BY THE ENGINEER.

PROTECTION AROUND DITCH BOTTOM INLETS. SILT FENCE APPLICATIONS

SPACING FOR TYPE III FENCE TO BE IN **ACCORDANCE WITH CHART 1. SHEET 1** OF 3 AND DITCH INSTALLATIONS AT DRAINAGE STRUCTURES SHEET 2 OF 3.

TYPE III SILT FENCE **APPLICATIONS** 

TYPE III SILT FENCE



FILTER FABRIC TO **EXTEND 8" MIN. FROM GRATE SIDES** 

**GENERAL NOTES** 1. THIS INLET PROTECTION IS DESIGNED WITH FILTER FABRIC PROTRUDING 8" FROM SIDES FOR GRIPPING WHEN SEDIMENT

2. FILTER FABRIC TO BE INSTALLED AND TRIMMED BEFORE GRATE IS SET. FILTER FABRIC DETAIL

NEEDS TO BE CLEARED AFTER FINAL CONSTRUCTION.

INLET PROTECTION





301 N.W. Flagler Ave Stuart, Florida 34994 Phone: (772) 692-4344 Fax: (772) 692-4341 E-mail: captecinfo@gocaptec.con

DATE: 03-27-2020 DRAWN BY: DESIGNED BY: CHECKED BY: JWC PROJECT No.: 1329.2 HORZ. SCALE: NA VERT. SCALE:

ORI

SCALE			REVISIONS	
ERIFICATION				
1				
OLID BAR IS EQUAL				
TO ONE INCH ON RIGINAL DRAWING,				
DJUST ALL SCALED				
DIMENSIONS	1	MDB	PERMIT PLANS	03-27-20
ACCORDINGLY	NO.	BY	DESCRIPTION	DATE

THE RESERVE AT JENSEN BEACH

TREE PROTECTION FENCE: MINIMUM <sup>1</sup>/<sub>4</sub>"

MAINTAIN EXISTING GRADE WITH IN

TREE PROTECTION FENCE UNLESS

OTHERWISE INDICATED

DIAMETER NYLON OR POLY ROPE, YELLOW

2"x2"x6' STEEL POSTS OR APPROVED EQUAL.

OR ORANGE . MUST BE 4' MINIMUM FROM GROUND & NOT ATTACHED TO GROUND.

MARTIN COUNTY, FLORIDA

**EROSION CONTROL DETAILS** 

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

JOB No.: **1329.2** SHEET

1329.2 CLEARING SWPPP

SHEET

**IDENTIFICATION** 

**Engineering Business** No. EB-0007657



#### CERTIFICATE OF OCCUPANCY SEQUENCE

#### **GENERAL NOTES:** (applies to all Phases of Project)

- 1. The Clubhouse & Pool (including all related foundation plantings and the sidewalk along the eastern Clubhouse & Pool boundary) will be completed prior to Building 2 Certificate of Occupancy (CO) issuance.
- 2. The preserve area exotic removal required by the PAMP shall be completed prior to any CO.
- 3. Apartment building construction sequence shall be Building No. 1, 2, 3, 4, 5, 9, 6, 7, and 8.
- 4. Paving shall be installed in two lifts of asphalt. Sequence of 1st Lift Paving shall be completed in three (3) separate mobilizations/phases. Temporary Striping shall be installed on 1st Lift to provide ample parking per MC LDR requirements for Certificate of Occupancy (CO) issuance purposes. The 2<sup>nd</sup> Lift of asphalt and Final Striping will be installed prior to the Building 8 CO.
- 5. The Pinelake Village watermain extension will be completed prior to the Building 8 CO.
- 6. All buffers within a phase shall be installed prior to any Building CO within the phase.
- 7. With the exception of the adjacent foundation plantings around each building which can be phased by building, all parking lot landscaping shall be installed and certified with the development of the associated phase parking lot infrastructure and prior to CO of any building within the phase. Landscaping within the entire phase must be inspected and approved by Martin County prior to the first CO issuance of the phase.
- 8. Foundation landscaping and irrigation shall be installed on a building by building basis for each respective Building CO. As each building is constructed, landscaping and irrigation will be installed in the surrounding area after the fine grading, paving and sidewalks are completed. The foundation landscaping and irrigation will be completed in the sequence listed above in General Note #3 for the nine (9) apartment buildings.
- 9. The 7 ft. opaque perimeter fence within Phase I and II shall be installed 10 ft. off the property line prior to the issuance of any building permits.

#### PHASE 1 - CORE INFRASTRUCTURE REQUIREMENTS FOR CLUBHOUSE, POOL & BLDG 1

- 1. Construct stabilized access and turn around area for emergency vehicles along NE Reserve Trail to temporary trailer location and to Warner Creek
- 2. Install temporary bridge across Warner Creek to provide full site access for protected species work,
- erosion & sediment control BMP installation, exotic vegetation removal, and Timber Bridge construction 3. Construct Warner Creek Timber Bridge, Abutments, and Wingwalls
- 4. Construct By-Pass drainage pipe system from Savannah Road to Warner Creek, consisting of Structures SD-1 through SD-5, HW-1, and Control Structure CS-1
- 5. Install stabilized access for emergency vehicles on NE Reserve Trail to Dry Retention Area 5
- 6. Perform mass grading of entire site, including perimeter berms 7. Construct Dry Detention Areas 1 - 5 and Warner Creek expansion, sod and plant vegetation areas per
- construction plan details and regulatory requirements (MC, SFWMD & NPDES) 8. Construct infrastructure within the Phase 1 boundary limits:
- a. Construct drainage pipe systems consisting of Structures SD-6 through SD-13
  - b. Construct Lift Station #1, force main, and sewer services to Clubhouse & Building 1
  - c. Construct water main, fire hydrants and water services to Clubhouse & Building 1 d. Install horizontal directional drill utilities under Warner Creek on north side of Timber Bridge
  - e. Construct dry utilities, FPL, cable, phone, internet to Clubhouse & Building 1

#### PHASE 1 – CO INFRASTRUCTURE REQUIREMENTS FOR CLUBHOUSE, POOL & BLDG 1

- 1. Construct curb, sidewalks, roadway and parking lots between Savannah Road and the Timber Bridge 2. Construct Clubhouse, Pool, Building 1, Dumpster Enclosure and Emergency Access with Knox Box
- a. Life safety / fire suppression system
- b. Structural / electrical / mechanical / plumbing / gas (if applicable) / lighting and ventilation c. Water / sewer / lift station connections
- d. Dry utility connections, (electrical, phone, cable TV & Internet)
- 3. Install First Lift of Asphalt with temporary striping & signage for Phase 1 area
- 4. Complete Warner Creek grading, access turnouts, sodding, Rip Rap, guardrail, curbing, sidewalks, paving, and remove Warner Creek Construction temporary BMP/erosion control measures
- Install landscaping for Building 1 & Clubhouse / Pool areas
- Install Common Area Sidewalks and Bike Racks serving Phase 1 Install Street Lighting for main roadway and parking lot
- 8. Install perimeter fence and landscape buffers for Phase 1 & Phase 2 9. Install United States Postal Service mailboxes
- 10. Certification from SFWMD / FDEP / Martin County Health Department
- 11. Martin County Certificate of Occupancy for Building 1 & Clubhouse / Pool
- 12. Demobilization of Temporary Leasing Trailer within 30 days after receipt of Clubhouse CO

#### PHASE 2 – CORE INFRASTRUCTURE REQUIREMENTS FOR BUILDINGS 2, 3 & 4

- 1. Construct infrastructure within the Phase 2 boundary limits:
- a. Construct drainage pipe systems, consisting of Structures SD-14 through SD-31 and Control Structure CS-2 (Structure SD-27 may be delayed to Phase 3)
- b. Construct force main, Lift Station #2 and sewer services to Buildings 2, 3 & 4
- c. Construct water main, fire hydrants and water services to Buildings 2, 3 & 4 d. Construct dry utilities, FPL, cable, phone, internet services to Buildings 2, 3 & 4

#### PHASE 2 - CO INFRASTRUCTURE REQUIREMENTS FOR BUILDINGS 2. 3 & 4

- 1. Construct curb, sidewalks, roadway and parking lots to STA 28+80
- 2. Construct Buildings 2, 3 & 4
- a. Life safety / fire suppression system
- b. Structural / electrical / mechanical / plumbing / gas (if applicable) / lighting and ventilation c. Water / sewer / lift station connections
- d. Dry utility connections, (electrical, phone, cable TV & Internet)
- 3. Construct Parking Garages and Dumpster Enclosure
- 4. Install First Lift of Asphalt with temporary striping & signage 5. Install landscaping serving each Building in Phase 2
- 6. Install Common Area Sidewalks and Bike Racks serving Phase 2
- Install Street Lighting serving main roadway and parking lots
- 8. Install United States Postal Service mailboxes
- 9. Certification from FDEP / Martin County Health Department
- 10. Martin County Certificates of Occupancy (Building by Building) for Bldgs. 2, 3 & 4

#### PHASE 3 – CORE INFRASTRUCTURE REQUIREMENTS FOR BUILDINGS 5 – 9

- Construct stabilized access for emergency vehicles to STA 37+70
- 2. Construct infrastructure within the Phase 3 boundary limits:
- a. Construct drainage pipe systems consisting of Structures SD-32 through SD-37
- b. Construct gravity sewers and sewer services to Buildings 5 thru 9 c. Construct water main, fire hydrants and water services to Buildings 5 thru 9

d. Construct dry utilities, FPL, cable, phone, internet to Buildings 5 thru 9

#### PHASE 3 – CO INFRASTRUCTURE REQUIREMENTS FOR BUILDINGS 5 – 9

- Construct Retaining Wall behind Buildings 5 and 6
- 2. Construct Pinelake Village watermain extension 3. Construct curb, sidewalks, and parking lots serving Buildings 5 thru 9 (phased building by building)
- 4. Construct Buildings, in the following order 5, 9, 6, 7 and 8 a. Life safety / fire suppression system
- b. Structural / electrical / mechanical / plumbing / gas (if applicable) / lighting and ventilation
- c. Water / sewer / lift station connections
- d. Dry utility connections, (electrical, phone, cable TV & Internet) Construct Parking Garages, Dumpster Enclosures, & Entry Features
- 6. Install First Lift of Asphalt with temporary striping & signage (phased building by building)
- Install landscaping serving each Building in Phase 3 (phased building by building)
- 8. Install Common Area Sidewalks and Bike Racks serving Phase 3 building by building
- 9. Install Street Lighting serving main roadway and parking lots building by building
- 10. Install perimeter fence and landscape buffers serving Phase 3, 11. Install the railroad landscape buffer (area between the retention pond and the property line/FEC ROW)
- 12. Install United States Postal Service mailboxes
- 13. Certification from FDEP / Martin County Health Department
- 14. Martin County Certificates of Occupancy (Building by Building) for Bldgs. 5, 9, 6 & 7

#### FINAL CLOSE-OUT

- Demobilization of Construction Trailer
- 2. Final Lift of Asphalt on NE Reserve Trail (all project areas prior to Building 8 CO)
- 3. Final Lift of Asphalt on all parking lots (prior to Building 8 CO)
- 4. Final signage and striping on all parking lots (prior to Building 8 CO)
- 5. Pinelake Village watermain completion and certification
- 6. Final Project close-out per Martin County requirements
- 7. Certificate of Occupancy from Martin County for Bldg. 8





301 N.W. Flagler Ave Stuart, Florida 34994 Phone: (772) 692-4344 Fax: (772) 692-4341 E-mail: captecinfo@gocaptec.con

**Engineering Business** No. EB-0007657

DATE: 10-31-19 DRAWN BY: MDB DESIGNED BY: SPM CHECKED BY: JWC PROJECT No.: 1329.2 HORZ. SCALE: 1" = 160' VERT. SCALE:

SCALE VERIFICATION	iggl(		REVISIONS	
0 1 SOLID BAR IS EQUAL TO ONE INCH ON				
ORIGINAL DRAWING, ADJUST ALL SCALED				
DIMENSIONS ACCORDINGLY	1	MDB	PERMIT PLANS	03-27-202
AGGGKBINGET	NO.	BY	DESCRIPTION	DATE

THE RESERVE AT JENSEN BEACH

MARTIN COUNTY, FLORIDA

**CERTIFICATE OF OCCUPANCY PHASING PLAN** 

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

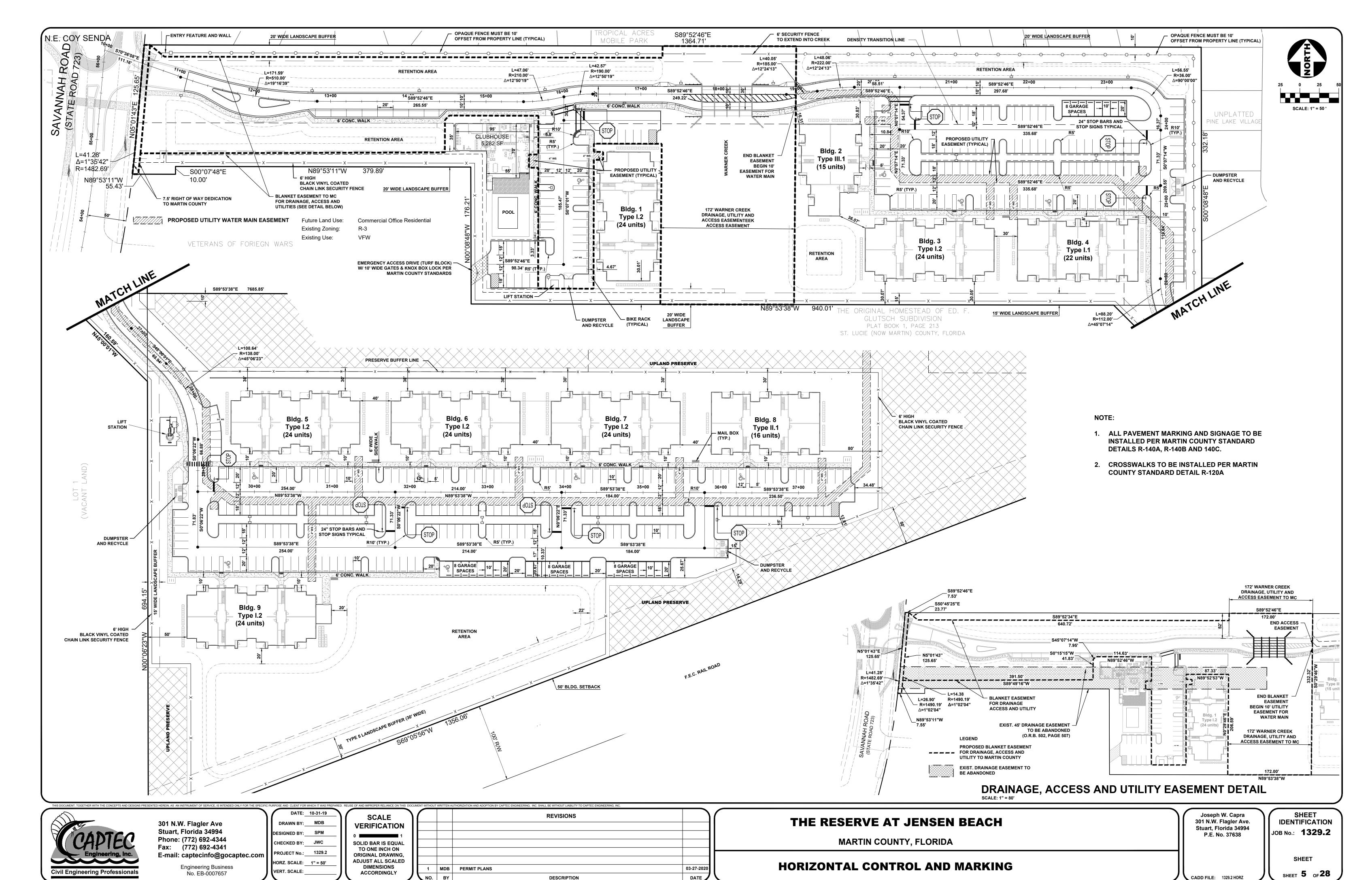
SHEET

1329.2 PHASE

SHEET

**IDENTIFICATION** 

JOB No.: **1329.2** 



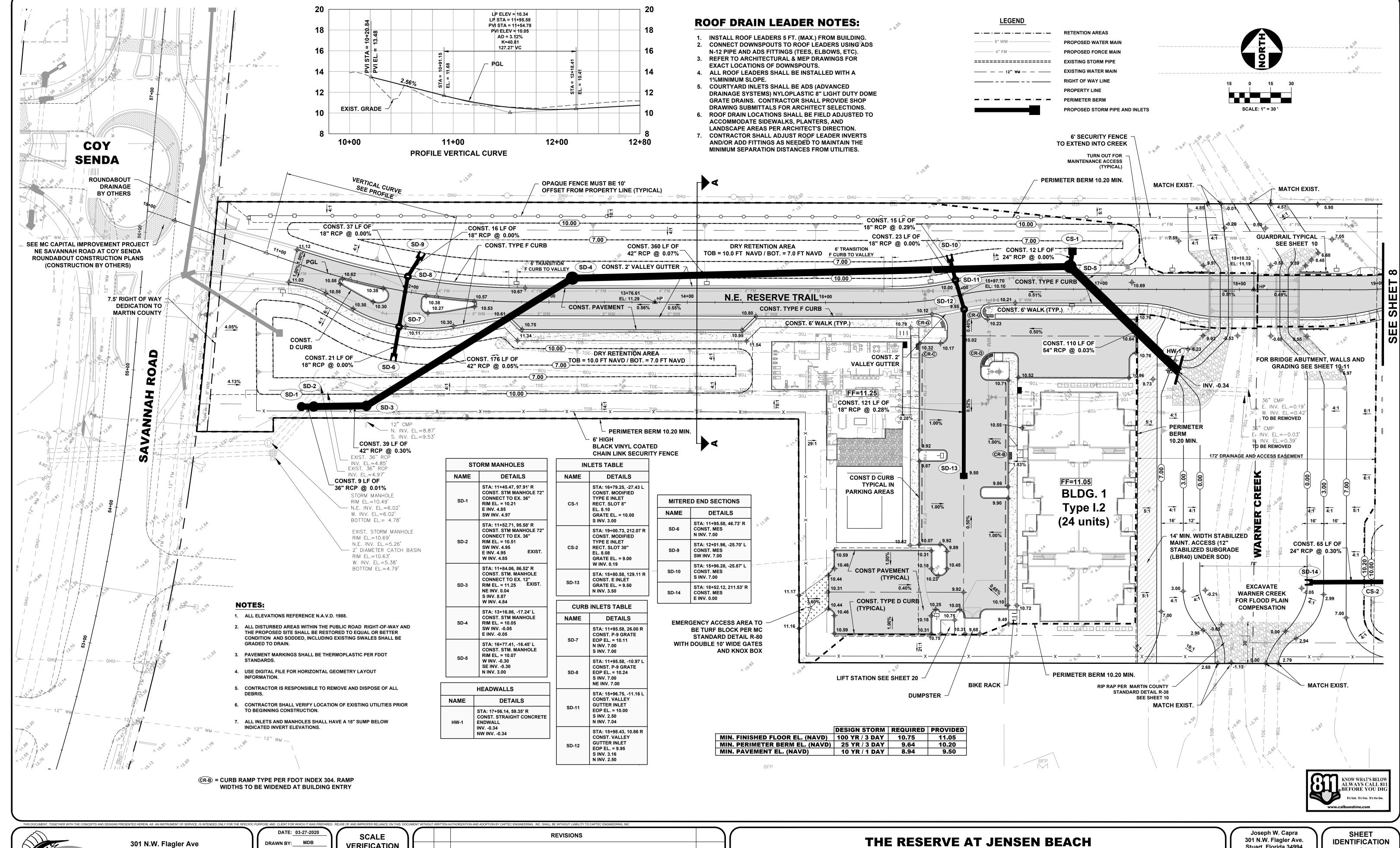
p:\1300\1329.2 - reserve at jensen beach\Dwg\1329.2 HORZ.dwg, 3/27/2020 12:17:00 PM, DWG To PDF.p

DATE

DESCRIPTION

PERIMETER BERM MIN. EL. — 10.20

PERIMETER BERM MIN.



**Civil Engineering Professionals** 

Stuart, Florida 34994 Phone: (772) 692-4344 Fax: (772) 692-4341 E-mail: captecinfo@gocaptec.com

DESIGNED BY: SPM CHECKED BY: JWC PROJECT No.: HORZ. SCALE: 1" = 30' **Engineering Business** VERT. SCALE: No. EB-0007657

**VERIFICATION SOLID BAR IS EQUAL** TO ONE INCH ON ORIGINAL DRAWING, **ADJUST ALL SCALED** DIMENSIONS 03-27-2020 PERMIT PLANS **ACCORDINGLY DESCRIPTION** 

MARTIN COUNTY, FLORIDA

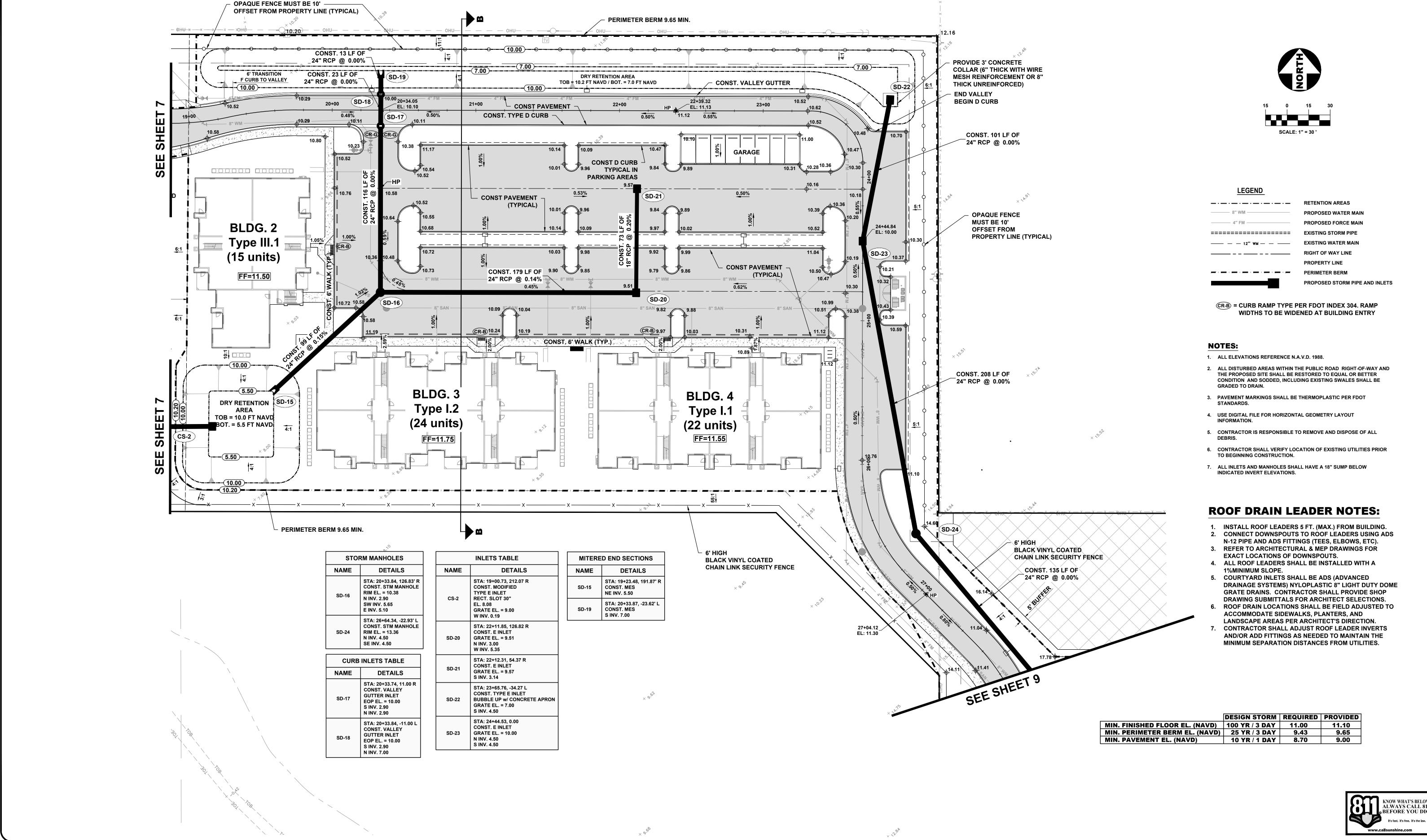
**PAVING, GRADING AND DRAINAGE PLAN** 

Stuart, Florida 34994 P.E. No. 37638

1329.2 PAVING AND DRAINAGE CADD FILE:

JOB No.: **1329.2** SHEET

SHEET **7** OF **28** 



THIS DOCUMENT, TOGETHER WITH THE CONCEPTS AND DESIGNATION OF T

301 N.W. Flagler Ave Stuart, Florida 34994 Phone: (772) 692-4344 Fax: (772) 692-4341 E-mail: captecinfo@gocaptec.com

**Engineering Business** 

No. EB-0007657

DATE: 03-27-2020

DRAWN BY: MDB

DESIGNED BY: SPM

CHECKED BY: JWC

PROJECT No.: 1329.2

HORZ. SCALE: 1" = 30'

VERT. SCALE:

THE RESERVE AT JENSEN BEACH

MARTIN COUNTY, FLORIDA

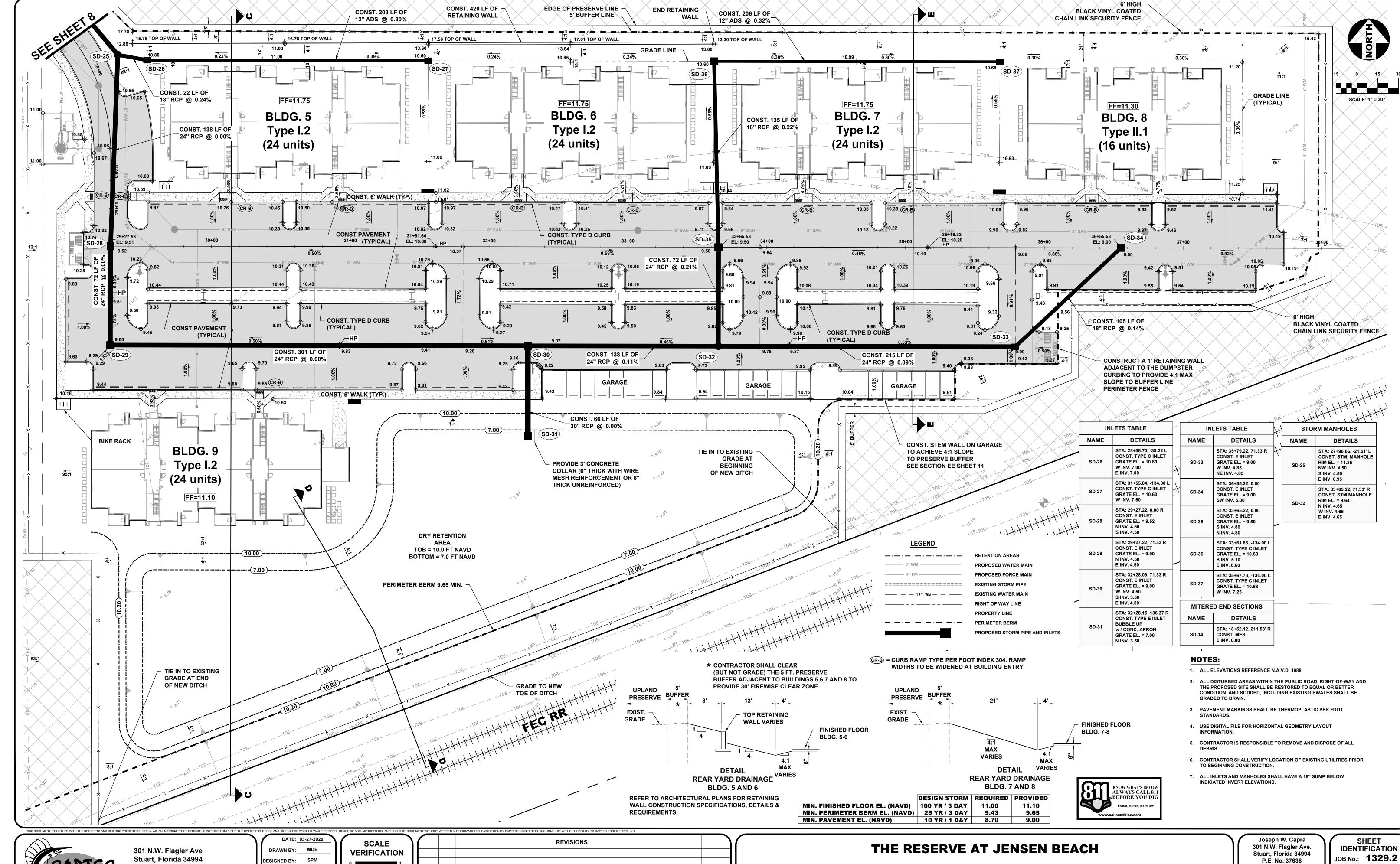
PAVING, GRADING AND DRAINAGE PLAN

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

1329.2 PAVING AND DRAINAGE CADD FILE: SHEET IDENTIFICATION JOB No.: 1329.2

SHEET

SHEET **8** OF **28** 



**Civil Engineering Professionals** 

Stuart, Florida 34994 Phone: (772) 692-4344 Fax: (772) 692-4341 E-mail: captecinfo@gocaptec.com

CHECKED BY: JWC PROJECT No.: 1329.2 HORZ. SCALE: 1" = 30' Engineering Business No. EB-0007657 VERT. SCALE:

**SOLID BAR IS EQUAL** TO ONE INCH ON ORIGINAL DRAWING, ADJUST ALL SCALED **DIMENSIONS ACCORDINGLY** 

03-27-2020 PERMIT PLANS **DESCRIPTION** 

MARTIN COUNTY, FLORIDA

**PAVING, GRADING AND DRAINAGE PLAN** 

P.E. No. 37638

1329.2 PAVING AND DRAINAGE CADD FILE:

SHEET

03-27-2020

DATE

DRAWN BY: MDB

DESIGNED BY: SPM

CHECKED BY: JWC

HORZ. SCALE: 1" = 10'

PROJECT No.:

VERT. SCALE:

1329.2

**VERIFICATION** 

**SOLID BAR IS EQUAL** 

TO ONE INCH ON

ORIGINAL DRAWING,

ADJUST ALL SCALED

DIMENSIONS

**ACCORDINGLY** 

MDB PERMIT PLANS

**DESCRIPTION** 

301 N.W. Flagler Ave

Stuart, Florida 34994

Phone: (772) 692-4344

Fax: (772) 692-4341

**Civil Engineering Professionals** 

E-mail: captecinfo@gocaptec.com

**Engineering Business** 

No. EB-0007657

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

SHEET
IDENTIFICATION
JOB No.: 1329.2

1329.2 PAVING AND DRAINAGE CADD FILE:

THE RESERVE AT JENSEN BEACH

MARTIN COUNTY, FLORIDA

**BRIDGE PLAN VIEW** 

SHEET

SHEET 10 OF 28

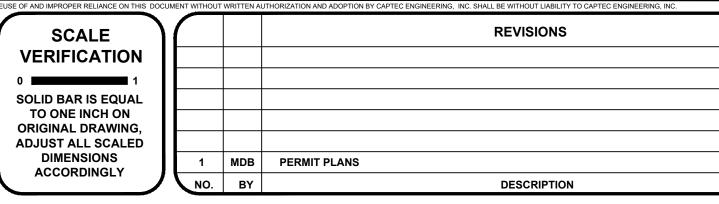
03-27-2020

DATE

**Civil Engineering Professionals** 

301 N.W. Flagler Ave Stuart, Florida 34994 Phone: (772) 692-4344 Fax: (772) 692-4341 E-mail: captecinfo@gocaptec.com Engineering Business No. EB-0007657

DATE: 03-27-2020 DRAWN BY: \_\_\_\_MDB DESIGNED BY: SPM CHECKED BY: JWC PROJECT No.: 1329.2 HORZ. SCALE: 1" = 20' VERT. SCALE: 1" = 10'



## THE RESERVE AT JENSEN BEACH

MARTIN COUNTY, FLORIDA

**SECTIONS** 

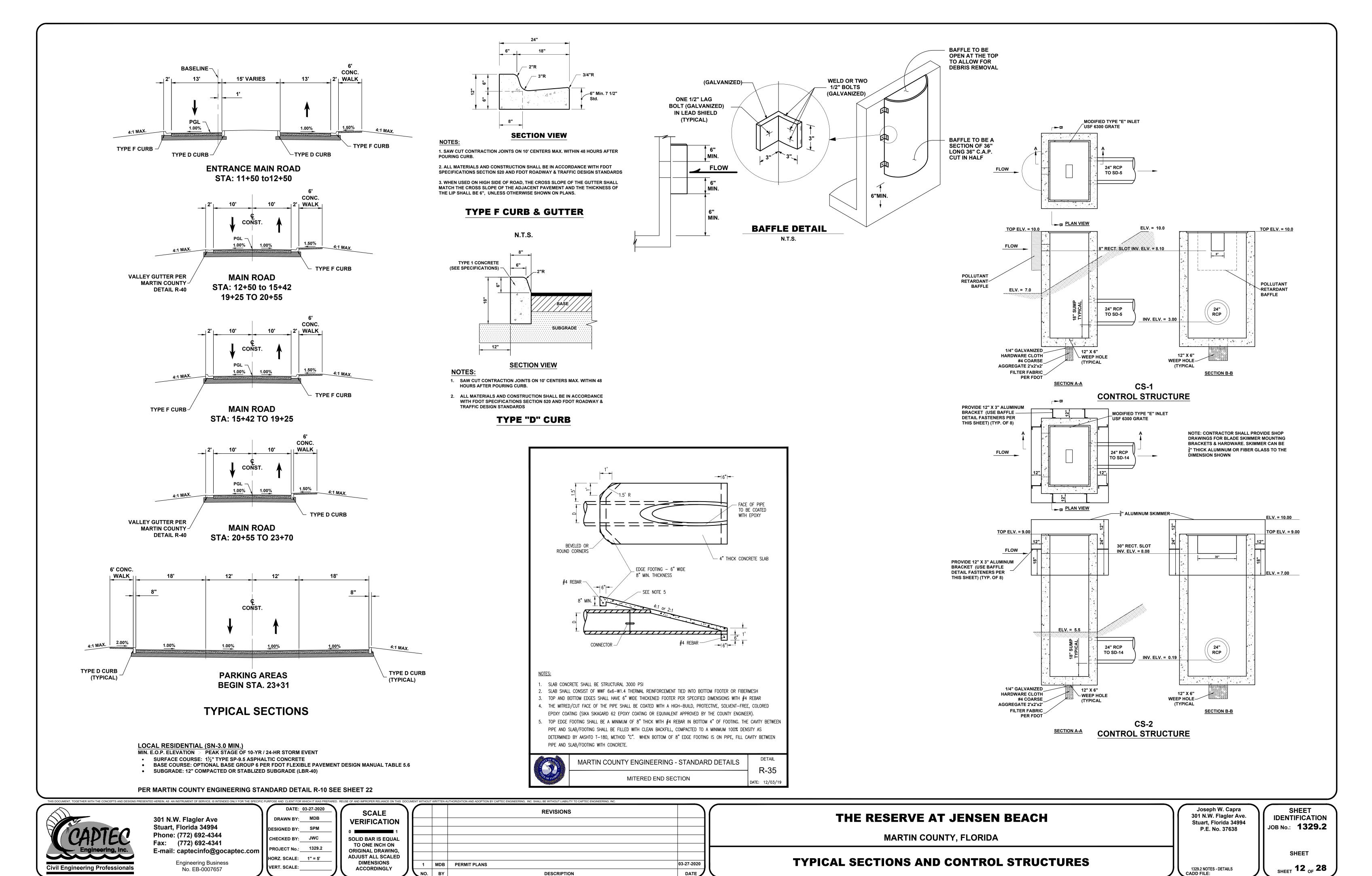
Joseph W. Capra 301 N.W. Flagler Ave. Stuart, Florida 34994 P.E. No. 37638

SHEET **IDENTIFICATION** JOB No.: **1329.2** 

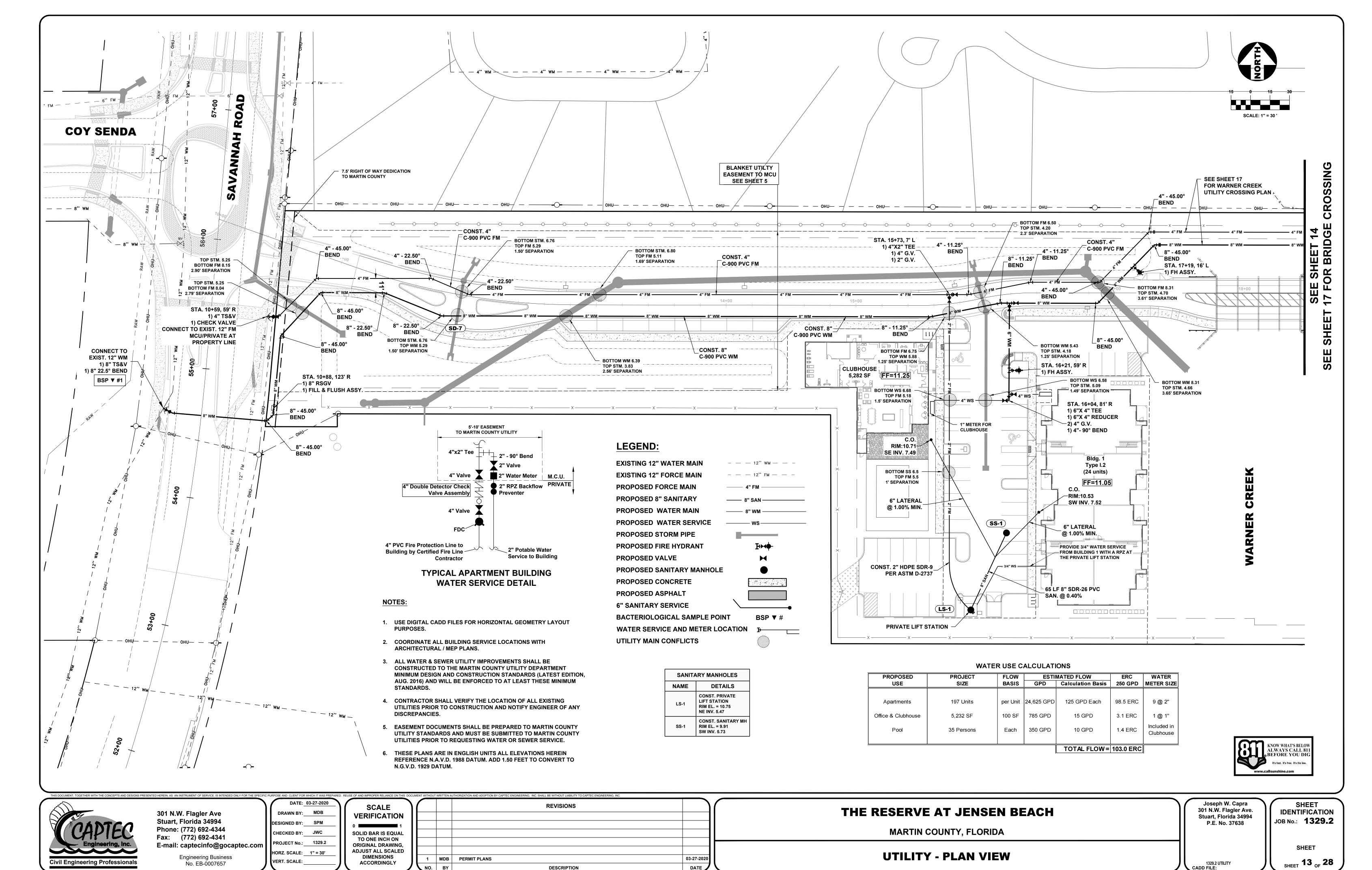
SHEET

SHEET 11 OF 28

1329.2 PAVING AND DRAINAGE CADD FILE:



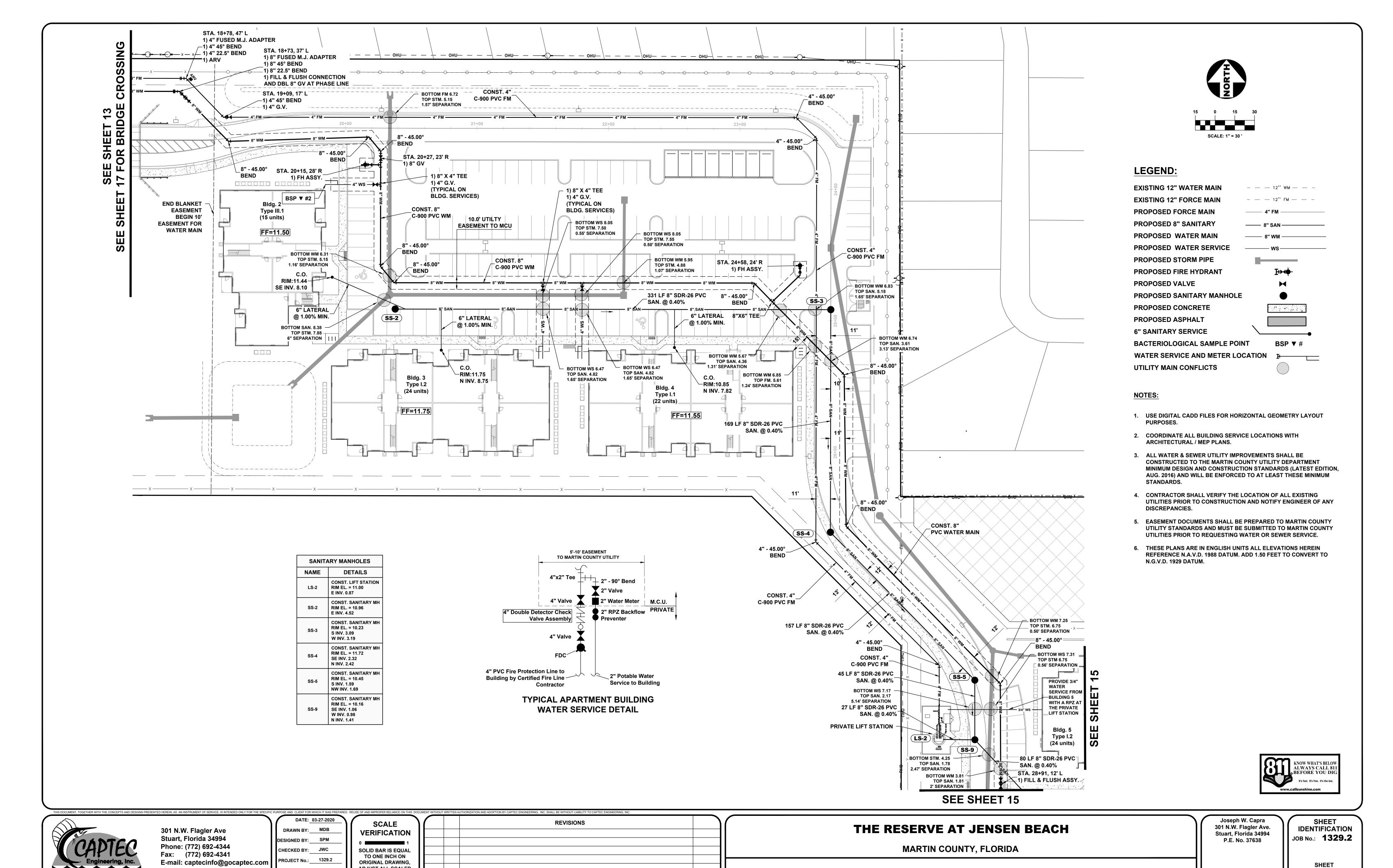
DATE



DATE

NO. BY

DESCRIPTION



03-27-2020

DATE

**UTILITY - PLAN VIEW** 

SHEET 14 OF 28

1329.2 UTILITY CADD FILE:

**ADJUST ALL SCALED** 

DIMENSIONS

**ACCORDINGLY** 

PERMIT PLANS

**DESCRIPTION** 

MDB

HORZ. SCALE: 1" = 30'

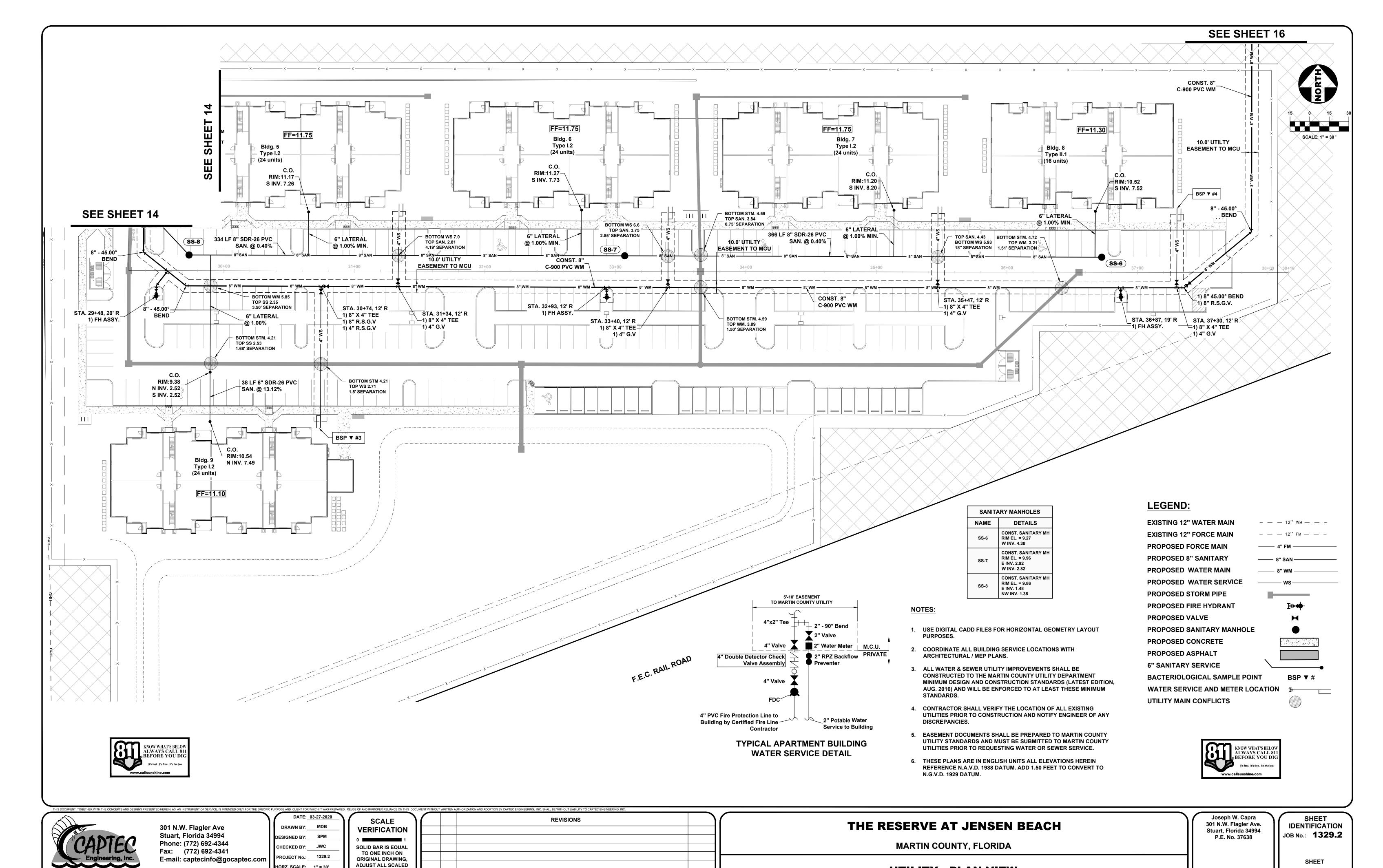
VERT. SCALE:

**Engineering Business** 

No. EB-0007657

**Civil Engineering Professionals** 

p:\1300\1329.2 - reserve at jensen beach\Dwg\1329.2 UTILITY.dwg, 3/27/2020 12:24:48 PM, DWG To PDF.pcâ



03-27-2020

**UTILITY - PLAN VIEW** 

SHEET 15 OF 28

1329.2 UTILITY CADD FILE:

HORZ. SCALE: 1" = 30'

VERT. SCALE:

DIMENSIONS

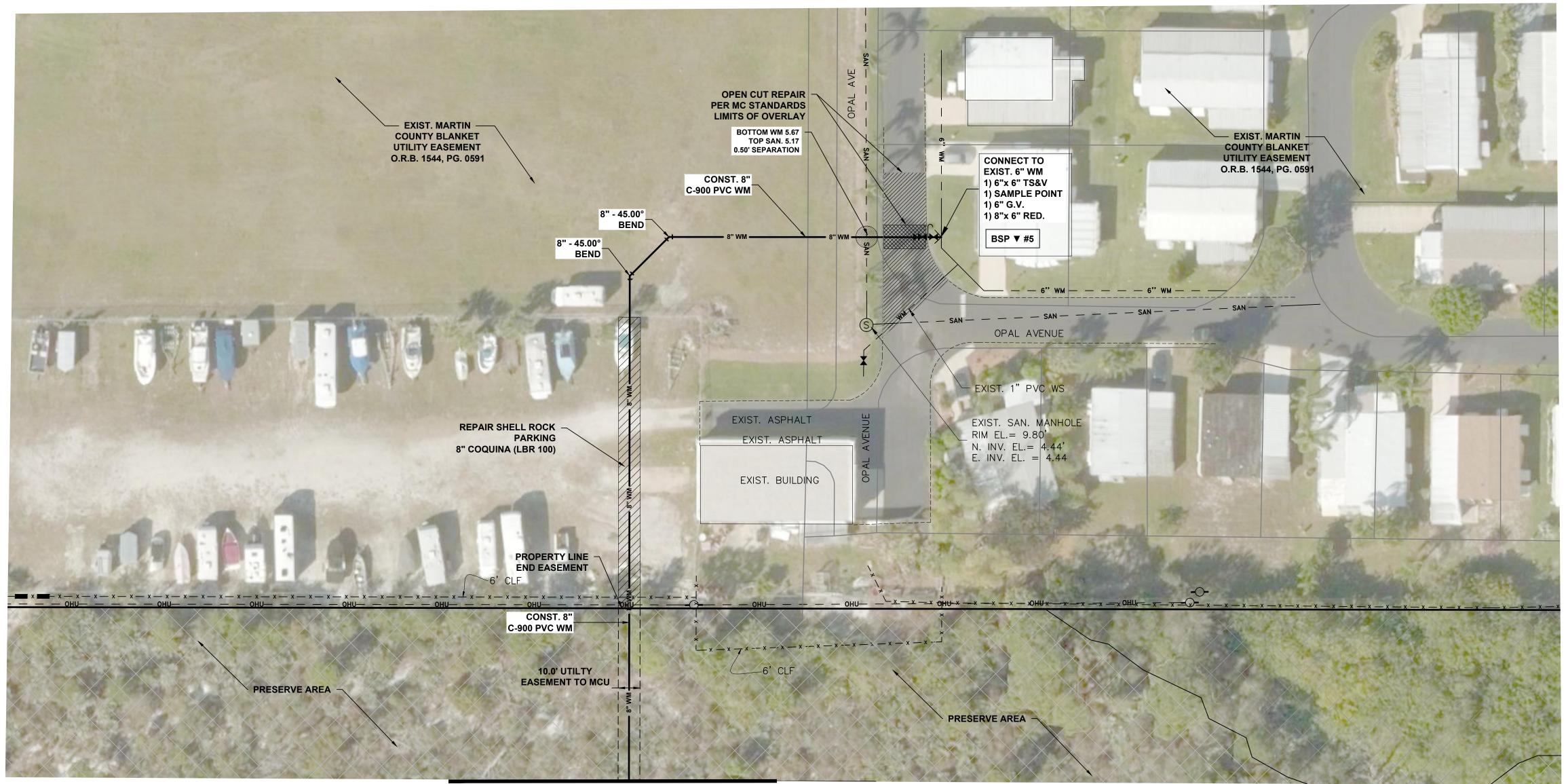
**ACCORDINGLY** 

MDB PERMIT PLANS

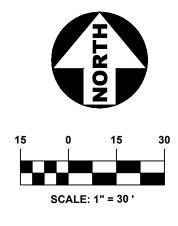
DESCRIPTION

Engineering Business No. EB-0007657

**Civil Engineering Professionals** 







#### LEGEND:

**EXISTING 12" WATER MAIN** - - - 12" WM - - -**EXISTING 12" FORCE MAIN** PROPOSED FORCE MAIN **PROPOSED 8" SANITARY** PROPOSED WATER MAIN PROPOSED WATER SERVICE PROPOSED STORM PIPE PROPOSED FIRE HYDRANT PROPOSED VALVE PROPOSED SANITARY MANHOLE PROPOSED CONCRETE PROPOSED ASPHALT **6" SANITARY SERVICE** BACTERIOLOGICAL SAMPLE POINT BSP ▼ # WATER SERVICE AND METER LOCATION 1 UTILITY MAIN CONFLICTS

#### NOTES:

- 1. USE DIGITAL CADD FILES FOR HORIZONTAL GEOMETRY LAYOUT PURPOSES.
- 2. COORDINATE ALL BUILDING SERVICE LOCATIONS WITH ARCHITECTURAL / MEP PLANS.
- 3. ALL WATER & SEWER UTILITY IMPROVEMENTS SHALL BE CONSTRUCTED TO THE MARTIN COUNTY UTILITY DEPARTMENT MINIMUM DESIGN AND CONSTRUCTION STANDARDS (LATEST EDITION, AUG. 2016) AND WILL BE ENFORCED TO AT LEAST THESE MINIMUM STANDARDS.
- 4. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
- 5. EASEMENT DOCUMENTS SHALL BE PREPARED TO MARTIN COUNTY UTILITY STANDARDS AND MUST BE SUBMITTED TO MARTIN COUNTY UTILITIES PRIOR TO REQUESTING WATER OR SEWER SERVICE.
- 6. THESE PLANS ARE IN ENGLISH UNITS ALL ELEVATIONS HEREIN REFERENCE N.A.V.D. 1988 DATUM. ADD 1.50 FEET TO CONVERT TO N.G.V.D. 1929 DATUM.





301 N.W. Flagler Ave Stuart, Florida 34994 Phone: (772) 692-4344 Fax: (772) 692-4341 E-mail: captecinfo@gocaptec.com

Engineering Business
No. EB-0007657

DATE: 03-27-2020

DRAWN BY: MDB

DESIGNED BY: SPM

CHECKED BY: JWC

PROJECT No.: 1329.2

HORZ. SCALE: 1" = 30'

VERT. SCALE:

sc	ALE		REVISIONS	
VERIFI	CATION			
0	1			
	R IS EQUAL			
	INCH ON DRAWING,			
	LL SCALED			
	ISIONS DINGLY	1 MDB	PERMIT PLANS	03-27-2020
ACCOR		NO. BY	DESCRIPTION	DATE

THE RESERVE AT JENSEN BEACH

MARTIN COUNTY, FLORIDA

PINELAKE VILLAGE WATER MAIN CONNECTION

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

SHEET IDENTIFICATION JOB No.: 1329.2

1329.2 UTILITY
CADD FILE:

SHEET 16 OF 28

SHEET

03-27-2020

**IDENTIFICATION** 

SHEET

SHEET 17 OF 28

JOB No.: **1329.2** 

Stuart, Florida 34994

P.E. No. 37638

1329.2 BRIDGE UTILITY CADD FILE:

MARTIN COUNTY, FLORIDA

WARNER CREEK UTILITY CROSSING PLAN & PROFILE

DRAWN BY: MDB

DESIGNED BY: SPM

CHECKED BY: JWC

PROJECT No.: 1329.2

HORZ. SCALE: 1" = 10'

VERT. SCALE: \_\_\_1" = 5'

**VERIFICATION** 

SOLID BAR IS EQUAL

TO ONE INCH ON

ORIGINAL DRAWING,

**ADJUST ALL SCALED** 

**DIMENSIONS** 

ACCORDINGLY

MDB PERMIT PLANS

DESCRIPTION

301 N.W. Flagler Ave

Stuart, Florida 34994

Phone: (772) 692-4344

Fax: (772) 692-4341

Civil Engineering Professionals

E-mail: captecinfo@gocaptec.com

Engineering Business No. EB-0007657

**Civil Engineering Professionals** 

301 N.W. Flagler Ave Stuart, Florida 34994 Phone: (772) 692-4344 Fax: (772) 692-4341

DESIGNED BY: SPM CHECKED BY: JWC PROJECT No.: 1329.2 E-mail: captecinfo@gocaptec.com HORZ. SCALE: 1" = 30' Engineering Business VERT. SCALE: \_\_\_1" = 3'\_\_\_ No. EB-0007657

DRAWN BY: \_\_\_MDB

SCALE	1			REVISIONS	
VERIFICATION					
0 1					
SOLID BAR IS EQUAL					
TO ONE INCH ON ORIGINAL DRAWING,					
ADJUST ALL SCALED					
DIMENSIONS	1	MDB	PERMIT PLANS		03-27-2020
ACCORDINGLY	NO.	BY		DESCRIPTION	DATE

## THE RESERVE AT JENSEN BEACH

MARTIN COUNTY, FLORIDA

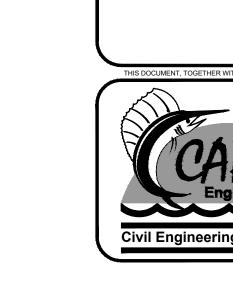
**UTILITY PROFILE** 

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

**IDENTIFICATION** JOB No.: **1329.2** SHEET

1329.2 UTILITY CADD FILE:

SHEET 18 OF 28



**Civil Engineering Professionals** 

DRAWN BY: MDB DESIGNED BY: SPM CHECKED BY: JWC PROJECT No.: 1329.2 HORZ. SCALE: 1" = 30' VERT. SCALE: \_\_\_1" = 3'\_\_

DATE: 03-27-2020

**SCALE VERIFICATION SOLID BAR IS EQUAL** TO ONE INCH ON ORIGINAL DRAWING, ADJUST ALL SCALED DIMENSIONS ACCORDINGLY

REVISIONS 03-27-2020 MDB PERMIT PLANS DESCRIPTION DATE

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

SHEET **IDENTIFICATION** JOB No.: **1329.2** 

KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG

SHEET

THE RESERVE AT JENSEN BEACH

301 N.W. Flagler Ave Stuart, Florida 34994 Phone: (772) 692-4344 Fax: (772) 692-4341 E-mail: captecinfo@gocaptec.com

**UTILITY PROFILE** 

MARTIN COUNTY, FLORIDA

NOTES:

STRINGENT.

1929 DATUM.

1. ALL CONSTRUCTION SHALL CONFORM TO MARTIN COUNTY, SFWMD, FDEP AND FDOT STANDARD SPECS AND REQUIREMENTS WHICH EVER IS MORE

2. ALL WATER AND SEWER CONSTRUCTION SHALL **COMPLY WITH MARTIN COUNTY STANDARDS.** 

3. THESE PLANS ARE IN ENGLISH UNITS ALL **ELEVATIONS HEREIN REFERENCE N.A.V.D. 1988** DATUM. ADD 1.50 FEET TO CONVERT TO N.G.V.D.

Engineering Business No. EB-0007657

65 LF 8" SDR26 PVC SAN. @ -0.40%─ **SS-9** STA. 28+57 (8.63' R) CONST. SANITARY MH RIM EL. = 10.16 INV. EL. = 1.06 (\$E) **└**27LF **QF** 8" SAN **@** 0.40% INV. EL. = 1.41 (N) INV. EL. = 0.98 (W) **LIFT STATION 2 PROFILE LIFT STATION 1 PROFILE** 

LS-2

CONST. 4" C-900 PVC FM

8" - 45.00°

**SS-5** 

4" - 45.00° BEND

**SS-5** 

28+00

\$TA. 28+11 (0.05' R)

RIM EL. = 10.45

INV. EL. = 1.69 (NW)

INV. EL. = 1.59 (S)

CONST. SANITARY MH

14

STA. 28+56 (35.75' R) CONST. LIFT STATION

**−45 LF 8" SDR26 PVC SAN. @ 0.40%** 

8" - 45.00°

STA. 28+57 (8.63' R)

RIM EL. = 10.16

INV. EL. = 1.06 (SE)

INV. EL. = 1.41 (N)

INV. EL. = 0.98 (W)

STA. 28+56 (35.75' R)

RIM EL. = 11.00INV. EL. = 0.87 (E)

CONST. LIFT STATION

**- 14** 

12

29+00

CONST. SANITARY MH

80 LF 8" SDR26 PVC SAN. @ 0.40%

LS-2

SS-9

**SS-8** 

STA. 29+73 (12.00' L)

CONST. SANITARY MH

RIM EL. = 9.86

30+00

INV. EL. = 1.48 (E)

INV. EL. = 1.38 (NW)

LS-1

CONST. PRIVATE

RIM EL. = 11.00 INV. EL. = 0.87 (E)

CONST. 8" **C-900 PVC WM** 

31+00

**SS-1** 

CONST. SANITARY MH

STA. 15+67 (236,07' R) STA. 15+85 (180.85' R)

334 LF 8" SDR26 PVC SAN. @ 0.40%

RIM EL. = 9.91 LIFT STATION 16 INV. EL. = 5.73 (\$W) RIM EL. = 10.75 INV. EL. = 5.47 (NE) 14 12 12 LS-1 SS-1 10 C-900 PVC FM

RIM EL. = 9.96 32+00 33+00

CONST. SANITARY MH INV. EL. = 2.92 (E) INV. EL. = 2.82 (W)

STA. 33+07 (12.00' L)

**SS-7** 

**SS-7** 

34+00

CONST. 8" C-900 PVC WM

RIM EL. = 9.27

36+00

STA. 36+73 (11.60' L) CONST. SANITARY MH

INV. EL. = 4.38 (W)

18" RCP-

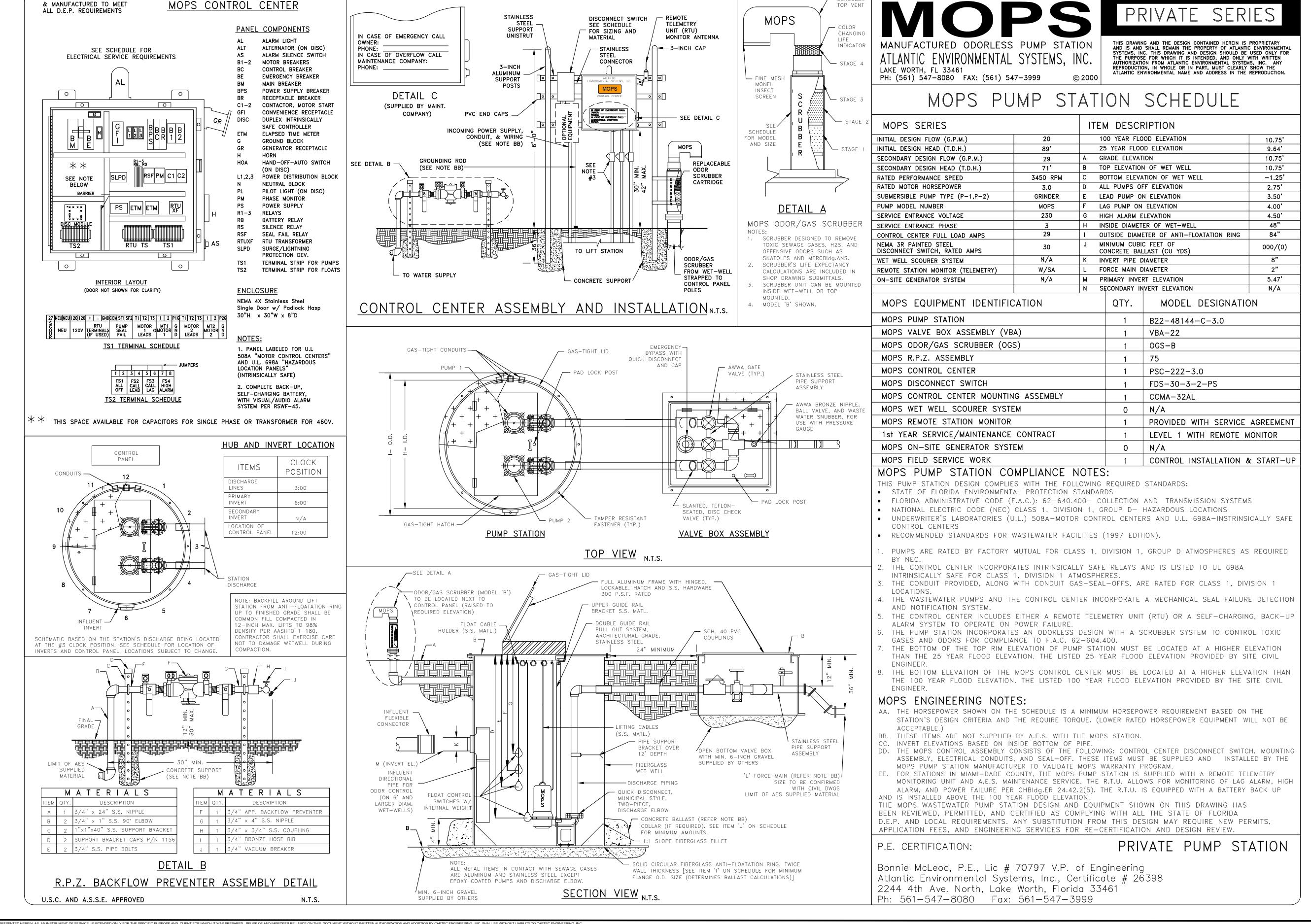
**SS-6** 

37+00

366 LF 8" SDR26 PVC SAN. @ 0.40%

35+00

SHEET 19 OF 28 1329.2 UTILITY CADD FILE:



p:\1300\1329.2 - reserve at jensen beach\Dwg\1329.2 UTILITY.dwg, 3/27/2020 12:27:41 PM, DWG To

Civil Engineering Professionals

301 N.W. Flagler Ave
Stuart, Florida 34994
Phone: (772) 692-4344
Fax: (772) 692-4341
E-mail: captecinfo@gocaptec.con

**Engineering Business** 

No. EB-0007657

CONTROL CENTER DESIGNED

DATE: 03-27-2020

DRAWN BY: \_\_\_\_\_\_

DESIGNED BY: \_\_\_\_\_\_

CHECKED BY: \_\_\_\_\_\_

PROJECT No.: \_\_\_\_\_\_

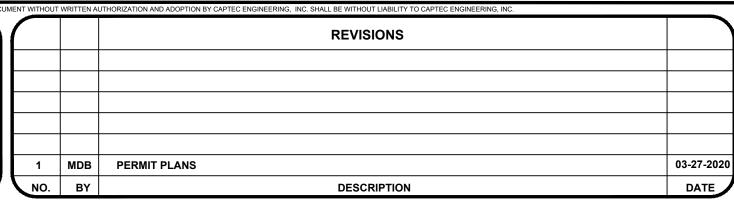
HORZ. SCALE: \_\_\_\_\_\_

VERT. SCALE: \_\_\_\_\_\_

SCALE
VERIFICATION

1
SOLID BAR IS EQUAL
TO ONE INCH ON
ORIGINAL DRAWING,
ADJUST ALL SCALED
DIMENSIONS
ACCORDINGLY

1 MDB
NO. BY



THE RESERVE AT JENSEN BEACH

MARTIN COUNTY, FLORIDA

**LIFT STATION NO. 1** 

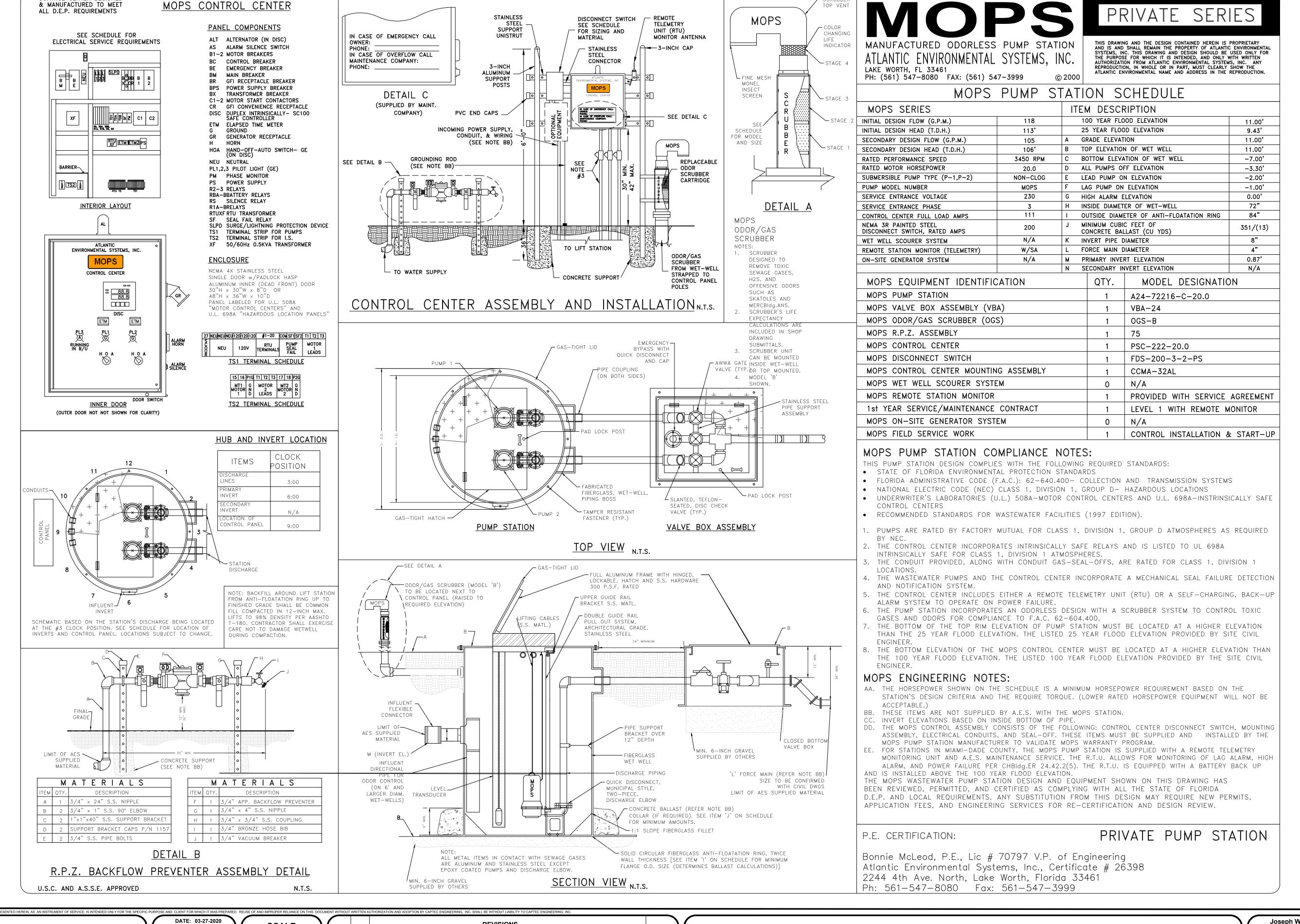
Joseph W. Capra 301 N.W. Flagler Ave. Stuart, Florida 34994 P.E. No. 37638

JOB No.: 1329.2

SHEET

SHEET **20** or 2

CADD FILE: 1329.2 UTILITY SHEET 20 OF 28



**Civil Engineering Professionals** 

301 N.W. Flagler Ave Stuart, Florida 34994 Phone: (772) 692-4344 Fax: (772) 692-4341 E-mail: captecinfo@gocaptec.con

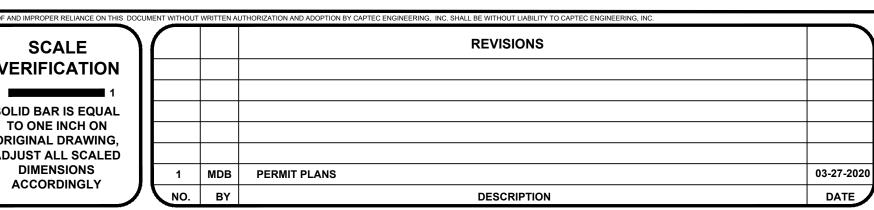
**Engineering Business** 

No. EB-0007657

CONTROL CENTER DESIGNED

DRAWN BY: **DESIGNED BY: CHECKED BY:** PROJECT No.: HORZ. SCALE: VERT. SCALE:

SCALE **VERIFICATION SOLID BAR IS EQUAL** TO ONE INCH ON ORIGINAL DRAWING, **ADJUST ALL SCALED** DIMENSIONS MDB **ACCORDINGLY** 



### THE RESERVE AT JENSEN BEACH

MARTIN COUNTY, FLORIDA

**LIFT STATION NO. 2** 

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

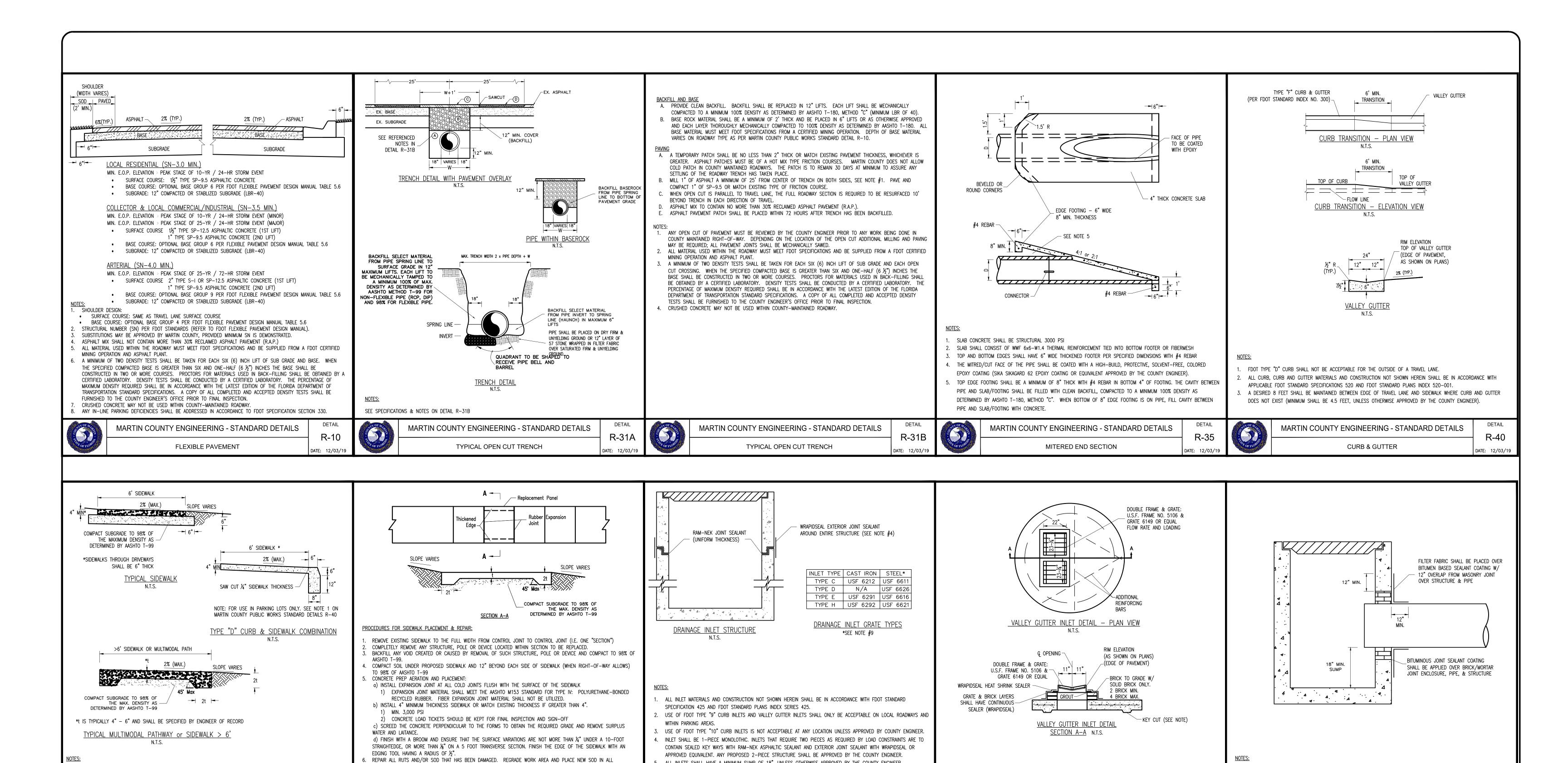
CADD FILE: 1329.2 UTILITY

**IDENTIFICATION** JOB No.: **1329.2** 

SHEET

SHEET

SHEET **21** OF **28** 



ALL INLETS SHALL HAVE A MINIMUM SUMP OF 18", UNLESS OTHERWISE APPROVED BY THE COUNTY ENGINEER.

7. ALL INLETS SHALL BE PLACED OVER DRY, FIRM AND UNYIELDING MATERIAL OR IN ACCORDANCE WITH STANDARD DETAIL

MARTIN COUNTY ENGINEERING - STANDARD DETAILS

LOCAL ROAD INLET

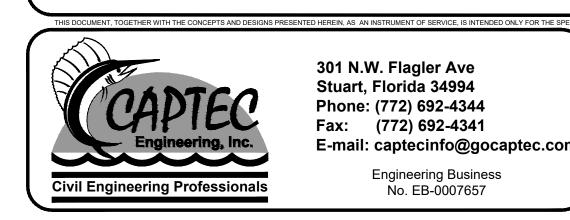
ALL INLET GRATES SHALL BEAR TRAFFIC LOADS AND SHALL BE CAST IRON IF APPLICABLE, OTHERWISE INLET GRATES SHALL

6. DITCH BOTTOM INLETS SHALL NOT HAVE A SEPARATED TOP SLAB UNLESS OTHERWISE APPROVED BY THE COUNTY

8. DITCH BOTTOM INLETS SHALL HAVE ANGLE IRON IN THE GRATE RECESSES TO ACCOMMODATE H-20 LOADING.

R-31A TYPICAL TRENCH DETAIL.

BE HOT-DIPPED GALVANIZED STEEL.



301 N.W. Flagler Ave Stuart, Florida 34994 Phone: (772) 692-4344 Fax: (772) 692-4341 E-mail: captecinfo@gocaptec.con

SIDEWALK MATERIALS AND CONSTRUCTION SHOWN HEREIN SHALL BE IN ACCORDANCE WITH APPLICABLE FDOT STANDARD

FIBER-REINFORCED CONCRETE FOR CURBS AND SIDEWALKS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI

THICKENED EDGE SHALL CONTAIN APPLICABLE SUBGRADE COMPACTED TO 98% OF MAXIMUM DRY DENSITY (AASHTO T-99)

MARTIN COUNTY ENGINEERING - STANDARD DETAILS

**SIDEWALK** 

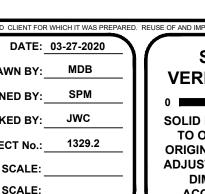
NOT EXIST (MINIMUM SHALL BE 4.5 FEET, UNLESS OTHERWISE APPROVED BY THE COUNTY ENGINEER).

A DESIRED 8 FEET SHALL BE MAINTAINED BETWEEN EDGE OF TRAVEL LANE AND SIDEWALK WHERE CURB AND GUTTER DOES

SPECIFICATIONS 522 AND FDOT STANDARD PLANS INDEX 522.

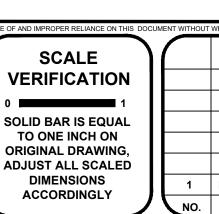
AT 28 DAYS WITH A WATER TO CEMENT RATIO NOT MORE THAN 0.53 (LB/LB).

DRAWN BY: MDB DESIGNED BY: SPM CHECKED BY: JWC PROJECT No.: HORZ. SCALE: Engineering Business VERT. SCALE: No. EB-0007657



DISTURBED AREAS.

ENGINEER, SHALL BE REPLACED.

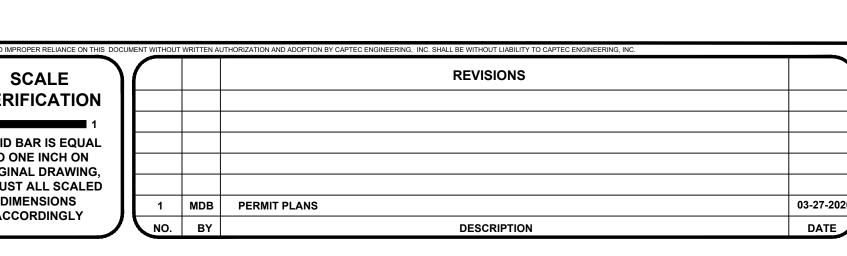


PEDESTRIAN SAFETY: ENSURE A PEDESTRIAN PATH IS SAFELY MAINTAINED IN ACCORDANCE WITH FDOT STANDARD PLAN

MARTIN COUNTY ENGINEERING - STANDARD DETAILS

SIDEWALK REPLACEMENT / REPAIR

NOTE: ANY ADDITIONAL SECTION OF SIDEWALK THAT ABUTS THE WORK AREA AND IS DEEMED UNSAFE BY THE COUNTY



R-42



MARTIN COUNTY, FLORIDA

ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS.

CENTERLINE OF OPENING SHALL BE OFFSET FROM CENTERLINE OF STRUCTURE.

GRATE & MANHOLE RINGS SHALL BE GROUTED IN PLACE.

JOINT SELALER

DETAIL

R-50

DATE: 12/03/19

KEY CUT IS REQUIRED WITH PRECAST TOPS ONLY. IF TOP SLAB IS CAST IN PLACE WITHOUT KEYWAY, 12" LONG NO. 4

GRATE & MANHOLE SEAT, GROUT, BRICKS, AND STRUCTURE SHALL BE CONTINUOUSLY ENCAPSULATED WITH WRAPIDSEAL

MARTIN COUNTY ENGINEERING - STANDARD DETAILS

**VALLEY GUTTER INLET** 

REBAR DOWELS SHALL BE DRILLED AND EXPOXIED AT 12" O.C. TO SECURE TOP SLAB TO SIDE WALLS.

PAVING AND GRADING DETAILS

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

CADD FILE:

1329.2 NOTES - DETAILS

ALL INLET MATERIALS AND CONSTRUCTION NOT SHOWN HEREIN SHALL BE IN ACCORDANCE WITH FDOT STANDARD

ALL MASONRY JOINT SEAL BRICK OR WALL MATERIAL UNIT SHALL BE SATURATED BEFORE GROUT SEALING.

MAX). NO MIXING OF SAND-CEMENT IS PERMITTED ON SITE UNLESS APPROVED BY THE COUNTY ENGINEER.

DRAINAGE STRUCTURE-PIPE CONNECTION MASONRY JOINT SHALL BE FILLED WITH MIXTURE OF APPROVED BRICK AND

ALL MASONRY JOINT CONCRETE MORTAR SHALL BE TYPE I AND/OR II PREMIXED SILICA SAND-PORTLAND CEMENT (3:1

MARTIN COUNTY ENGINEERING - STANDARD DETAILS

PIPE - STRUCTURE CONNECTION

SPECIFICATION 425 AND FDOT STANDARD PLANS INDEX SERIES 425.

TYPE I AND/OR II CONCRETE MORTAR.

SHEET **IDENTIFICATION** JOB No.: **1329.2** 

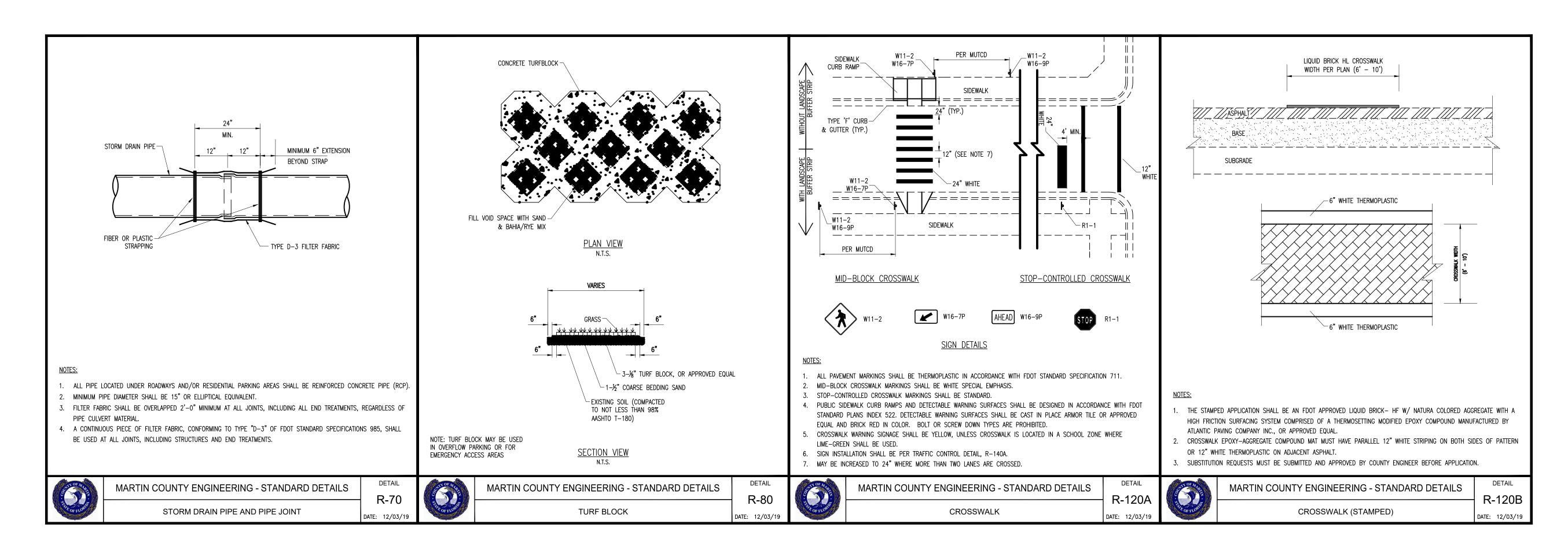
**SHEET 22 OF 28** 

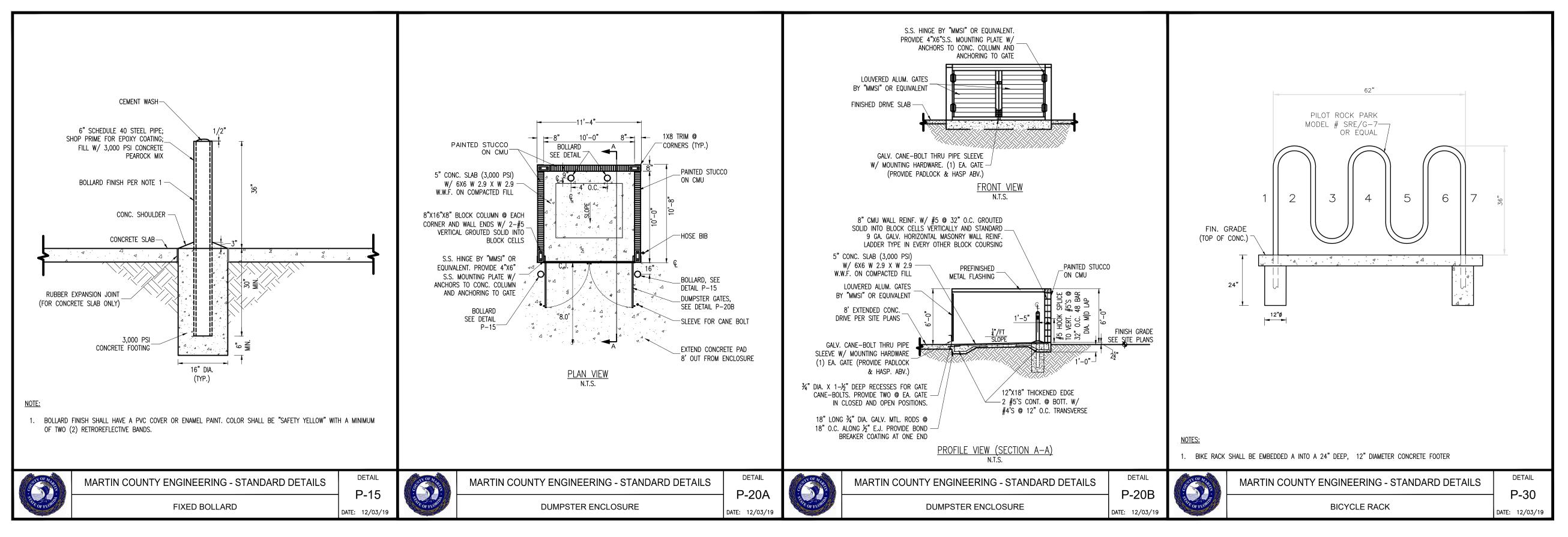
SHEET

DETAIL

DETAIL

R-51







301 N.W. Flagler Ave Stuart, Florida 34994 Phone: (772) 692-4344 Fax: (772) 692-4341

E-mail: captecinfo@gocaptec.coı **Engineering Business** No. EB-0007657

DATE: 03-27-2020 DRAWN BY: \_\_\_ MDB DESIGNED BY: SPM CHECKED BY: JWC PROJECT No.: VERT. SCALE:

SCALE **VERIFICATION SOLID BAR IS EQUAL** TO ONE INCH ON ORIGINAL DRAWING. ADJUST ALL SCALED **DIMENSIONS ACCORDINGLY** 

## **REVISIONS** 03-27-2020 MDB PERMIT PLANS DATE

#### THE RESERVE AT JENSEN BEACH

MARTIN COUNTY, FLORIDA

PAVING AND GRADING DETAILS

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

1329.2 NOTES - DETAILS CADD FILE:

SHEET **IDENTIFICATION** JOB No.: **1329.2** 

SHEET

SHEET **23** OF **28** 

2. A complete copy of this permit shall be kept at the work site of the permitted activity during the construction phase, and shall be available for review at the work site upon request by the Agency staff. The permittee shall require the contractor to review the complete permit prior to beginning construction.

Activities shall be conducted in a manner that does not cause or contribute to violations of state water quality standards. Performance-based erosion and sediment control best management practices shall be installed immediately prior to, and be maintained during and after construction as needed, to prevent adverse impacts to the water resources and adjacent lands. Such practices shall be in accordance with the State of Florida Erosion and Sediment Control Designer and Reviewer Manual (Florida Department of Environmental Protection and Florida Department of Transportation, June 2007), and the Florida Stormwater Erosion and Sedimentation Control Inspector's Manual (Florida Department of Environmental Protection, Nonpoint Source Management Section, Tallahassee, Florida, July 2008), which are both incorporated by reference in subparagraph 62-330.050(9)(b)5., F.A.C., unless a project-specific erosion and sediment control plan is approved or other water quality control measures are required as part of the permit.

4. At least 48 hours prior to beginning the authorized activities, the permittee shall submit to the Agency a fully executed Form 62-330.350(1), "Construction Commencement Notice," (October 1, 2013), (http://www.flrules.org/Gateway/reference.asp?No=Ref-02505), incorporated by reference herein, indicating the expected start and completion dates. A copy of this form may be obtained from the Agency, as described in subsection 62-330.010(5), F.A.C., and shall be submitted electronically or by mail to the Agency. However, for activities involving more than one acre of construction that also require a NPDES stormwater construction general permit, submittal of the Notice of Intent to Use Generic Permit for Stormwater Discharge from Large and Small Construction Activities, DEP Form 62-621.300(4)(b), shall also serve as notice of commencement of construction under this chapter and, in such a case, submittal of Form 62-330.350(1) is not required.

5. Unless the permit is transferred under rule 62-330.340, F.A.C., or transferred to an operating entity under rule 62-330.310, F.A.C., the permittee is liable to comply with the plans, terms, and conditions of the permit for the life of the project or activity. Within 30 days after completing construction of the entire project, or any independent portion of the project, the permittee shall provide

the following to the Agency, as applicable: a. For an individual, private single-family residential dwelling unit, duplex, triplex, or quadruplex"Construction Completion and Inspection Certification for Activities Associated With a Private Single-Family Dwelling Unit"[Form 62-330.310(3)]; or

b. For all other activities-"As-Built Certification and Request for Conversion to Operational Phase" [Form 62-330.310(1)].

c. If available, an Agency website that fulfills this certification requirement may be used in lieu of the form. 7. If the final operation and maintenance entity is a third party:

a. Prior to sales of any lot or unit served by the activity and within one year of permit issuance, or within 30 days of as-built certification, whichever comes first, the permittee shall submit, as applicable, a copy of the operation and maintenance documents (see sections 12.3 thru 12.3.4 of Volume I) as filed with the Florida Department of State, Division of Corporations, and a copy of any easement, plat, or deed restriction needed to operate or maintain the project, as recorded with the Clerk of the Court in the County in which the activity is located. b. Within 30 days of submittal of the as-built certification, the permittee shall submit "Request for Transfer of Environmental Resource Permit to the Perpetual Operation and Maintenance Entity" [Form 62-330.310(2)] to transfer the permit to the operation and maintenance entity, along with the documentation requested in the form. If available, an Agency website that fulfills this transfer requirement may be used in lieu of the form.

8. The permittee shall notify the Agency in writing of changes required by any other regulatory agency that require changes to the permitted activity, and any required modification of this permit must be obtained prior to implementing the changes.

a. Convey to the permittee any property rights or privileges, or any other rights or privileges other than those specified herein or in Chapter 62-330, F.A.C.;

b. Convey to the permittee or create in the permittee any interest in real property; Relieve the permittee from the need to obtain and comply with any other required federal, state, and local authorization, law, rule, or

d. Authorize any entrance upon or work on property that is not owned, held in easement, or controlled by the permittee 10. Prior to conducting any activities on state-owned submerged lands or other lands of the state, title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund, the permittee must receive all necessary approvals and authorizations under Chapters 253 and 258, F.S. Written authorization that requires formal execution by the Board of Trustees of the Internal Improvement Trust Fund shall not be considered received until it has been fully executed.

11. The permittee shall hold and save the Agency harmless from any and all damages, claims, or liabilities that may arise by reason of the construction, alteration, operation, maintenance, removal, abandonment or use of any project authorized by the permit.

12. The permittee shall notify the Agency in writing:

a. Immediately if any previously submitted information is discovered to be inaccurate; and

b. Within 30 days of any conveyance or division of ownership or control of the property or the system, other than conveyance via a long-term lease, and the new owner shall request transfer of the permit in accordance with Rule 62-330.340, F.A.C. This does not apply to the sale of lots or units in residential or commercial subdivisions or condominiums where the stormwater management system has been completed and converted to the operation phase.

13. Upon reasonable notice to the permittee, Agency staff with proper identification shall have permission to enter, inspect, sample and test the project or activities to ensure conformity with the plans and specifications authorized in the permit.

14. If prehistoric or historic artifacts, such as pottery or ceramics, projectile points, stone tools, 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 permittee or other designee shall contact the Florida Department of State, Division of Historical Resources, Compliance Review Section (DHR), at (850)245-6333, as well as the appropriate permitting agency office. Project activities shall not resume without verbal or written authorization from

the Division of Historical Resources. If unmarked human remains are encountered, all work shall stop immediately and the proper authorities notified in accordance with section 872.05.

F.S. For project activities subject to prior consultation with the DHR and as an alternative to the above requirements, the permittee may follow procedures for unanticipated discoveries as set forth within a cultural resources assessment survey determined complete and sufficient by DHR and included as a specific permit condition herein.

15. Any delineation of the extent of a wetland or other surface water submitted as part of the permit application, including plans or other supporting documentation, shall not be considered binding unless a specific condition of this permit or a formal determination under Rule 62-330.201. F.A.C., provides otherwise.

16. The permittee shall provide routine maintenance of all components of the stormwater management system to remove trapped sediments and debris. Removed materials shall be disposed of in a landfill or other uplands in a manner that does not require a permit under Chapter 62-330, F.A.C., or cause violations of state water quality standards.

17. This permit is issued based on the applicant's submitted information that reasonably demonstrates that adverse water resource-related impacts will not be caused by the completed permit activity. If any adverse impacts result, the Agency will require the permittee to eliminate the cause, obtain any necessary permit modification, and take any necessary corrective actions to resolve the adverse

18. A Recorded Notice of Environmental Resource Permit may be recorded in the county public records in accordance with Rule 62-330.090(7), F.A.C. Such notice is not an encumbrance upon the property.

#### Special Conditions for Individual Environmental Resource Permits, 62-330.350, F.A.C.

1 The construction authorization for this permit shall expire on the date shown on page 2.

2 Operation and maintenance of the SWM system shall be the responsibility of Jensen CAP Investments, LLC. The permittee shall notify the Agency in writing within 30 days of any conveyance or division of ownership or control of the property or the system, and the new owner must request transfer of the permit in accordance with Rule 62-330.340, F.A.C. Lake side slopes shall be no steeper than 4:1 (horizontal:vertical) to a depth of two feet below the control elevation. Side slopes shall be nurtured or planted from 2 feet below to 1 foot above control elevation to insure vegetative growth.

4 A stable, permanent and accessible elevation reference shall be established on or within one hundred (100) feet of all permitted discharge structures no later than the submission of the certification report. The location of the elevation reference must be noted on or with the certification report.

Prior to any future construction, the permittee shall apply for and receive an Individual ERP. As part of the permit application, the applicant for that phase shall provide documentation verifying that the proposed construction is consistent with the design of the master stormwater management system, including the land use and site grading assumptions.

6 Prior to initiating construction activities associated with this Environmental Resource Permit (ERP), the permittee is required to hold a pre-construction meeting with field representatives, consultants, contractors, District Environmental Resource Bureau (ERB) staff, and any other local government entities as necessary. The purpose of the pre-construction meeting is to discuss construction methods, sequencing, best management practices, identify work areas, staking and roping of preserves where applicable, and to facilitate coordination and assistance amongst relevant parties. To schedule a pre-construction meeting, please contact ERB staff from the Okeechobee Service Center at (863) 462-5260 or via e-mail at: pre-con@sfwmd.gov. When sending a request for a pre-construction meeting, please include the application number, permit number, and contact name and phone number.

7 This permit does not authorize the permittee to cause any adverse impact to or "take" of state listed species and other regulated species of fish and wildlife. Compliance with state laws regulating the take of fish and wildlife is the responsibility of the owner or applicant associated with this project. Please refer to Chapter 68A-27 of the Florida Administrative Code for definitions of "take" and a list of fish and wildlife species. If listed species are observed onsite, FWC staff are available to provide decision support information or assist in obtaining the appropriate FWC permits. Most marine endangered and threatened species are statutorily protected and a "take" permit cannot be issued. Requests for further information or review can be sent to: FWCConservationPlanningServices@MyFWC.com.

GENERAL NOTES:

FOR THE PURPOSE OF THE GENERAL NOTES BELOW, THE TERM DEPARTMENT SHALL MEAN "MARTIN COUNTY UTILITIES & SOLID WASTE DEPARTMENT".

ALL CONNECTIONS TO EXISTING MAINS SHALL BE OBSERVED BY THE DEPARTMENT. VALVES ON EXISTING MAINS SHALL BE OPERATED BY DEPARTMENT PERSONNEL OR UNDER THEIR DIRECT SUPERVISION. TAPPING SLEEVE AND VALVE SHALL BE PRESSURE TESTED PRIOR TO TAPPING. I SERVICE MUST BE CUT OFF TO EXISTING CUSTOMERS, THE DEPARTMENT MUST HAVE THREE DAYS NOTICE TO MAKE NECESSARY NOTIFICATIONS. THE CONTRACTOR MAY BE REQUIRED TO ASSIST IN NOTIFICATIONS. IN THIS EVENT, CONTRACTOR SHALL BE READY TO PROCEED WITH AS MUCH MATERIAL PREASSEMBLED AS POSSIBLE AT THE SITE TO MINIMIZE THE LENGTH OF SERVICE INTERRUPTION. THE DEPARTMENT WILL POSTPONE A SERVICE CUT OFF IF THE CONTRACTOR IS NOT READY TO PROCEED ON SCHEDULE. SUCH CONNECTIONS SHALL BE MADE AT NIGHT TO MINIMIZE EFFECTS UNLESS OTHERWISE AUTHORIZED BY THE DEPARTMENT. NO CUSTOMER SHOULD BE WITHOUT SERVICE FOR MORE THAN FOUR HOURS.

LOCAL CHLORINATION WILL BE REQUIRED FOR ALL PIPE AND FITTINGS USED TO COMPLETE CONNECTIONS WITH POTABLE WATER.

THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES ONE COPY OF MARTIN COUNTY UTILITIES MINIMUM DESIGN AND CONSTRUCTION STANDARDS, ONE COPY OF THE CONTRACT DOCUMENTS, INCLUDING PLANS, SPECIFICATIONS AND SPECIAL PROVISIONS, AND COPIES OF ANY REQUIRED CONSTRUCTION PERMITS.

3. THE CONTRACTOR SHALL CONTACT ALL CONCERNED UTILITIES AT LEAST 48 HOURS IN ADVANCE OF CONSTRUCTION OPERATIONS.

4. THE LOCATION AND SIZE OF ALL EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND ARE BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITIES BY ELECTRONIC METHOD AND BY HAND EXCAVATION IN COORDINATION WITH ALL UTILITY COMPANIES PRIOR TO BEGINNING ANY CONSTRUCTION OPERATIONS. ANY AND ALL CONFLICTS OF EXISTING UTILITIES WITH PROPOSED IMPROVEMENTS SHALL BE RESOLVED BY THE ENGINEER AND DEPARTMENT 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.

5. LOCATION OF PROPOSED FACILITIES WILL BE STAKED BY CONTRACTOR. CONTRACTOR MUST GIVE 48 HOURS NOTICE TO THE DEPARTMENT IN ADVANCE OF LAYOUT.

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 MEETINGS. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT BY LETTER PRIOR TO THE PRE-CONSTRUCTION MEETING APPOINTING THE SUPERINTENDENT FOR THIS PROJECT INCLUDING A FORMAL RESUME SHOWING QUALIFICATIONS. IN THE EVENT THE SUPERINTENDENT WILL NOT BE PRESENT FOR ANY PERIOD OF TIME DURING CONTRACT WORK THE CONTRACTOR SHALL PROVIDE 48 HOURS NOTICE IN WRITING TO THE DEPARTMENT, INCLUDING THE APPOINTMENT OF A QUALIFIED REPLACEMENT SUPERINTENDENT WHO WILL BE PRESENT DURING THE CONSTRUCTION. WORK SHALL NOT BE ALLOWED TO PROCEED UNLESS THE ASSIGNED SUPERINTENDENT IS PRESENT.

7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE HIS COMPLETE FAMILIARITY WITH THE PROJECT SITE AND COMPONENTS TO INCLUDE SUBSURFACE CONDITIONS OF SOIL AND GROUNDWATER TABLE.

WARNING: EXACT LOCATION OF UNDERGROUND UTILITIES IS NOT KNOWN NOR IS THIS DRAWING TO BE CONSTRUED AS DEPICTING THE LOCATION OF ALL UNDERGROUND UTILITIES OR STRUCTURES. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINATION OF LOCATION PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR IS RESPONSIBLE, THEREFORE, FOR ALL DAMAGE AND REPAIR COSTS.

#### MARTIN COUNTY CONSTRUCTION STANDARDS & DETAILS

DWG No REVISION GENERAL NOTES, SPECIFICATIONS 1A AUGUST 2016 AND SEPARATION STATEMENT

GENERAL NOTES (Cont.):

36. WATER MAIN DISINFECTION SHALL BE IN ACCORDANCE WITH CURRENT AWWA, BULLETIN

37. WATER MAINS AND APPURTENANCES SHALL BE IN ACCORDANCE WITH CURRENT AWWA,

38. MINIMUM COVER TO FINISHED GRADE OVER WATER MAINS SHALL BE 30 INCHES UP TO 8" DIAMETER; 10" OR LARGER SHALL HAVE 36" COVER OR GREATER TO PROVIDE A MINIMUM 18" COVER OVER OPERATING NUT OF GATE VALVES.

39. ALL MAINS SHALL BE TESTED FOR LEAKAGE. WATER SHALL BE SUPPLIED TO THE MAIN AND PUMPED TO THE REQUIRED 150 PSI PRESSURE. THE MAIN TESTED SHALL FITHER BE ISOLATED FROM PRESENTLY POTABLE LINES OR PROTECTED FROM LEAKAGE BY A DOUBLE

40. NEWLY CONSTRUCTED FIRE HYDRANTS THROUGHOUT THE PROJECT SHALL HAVE A RED "OUT OF SERVICE" DISK (JOSEPH G. POLLARD CO. OR EQUAL) ATTACHED TO 4" PUMPER NOZZLE CAP. DISK TO BE REMOVED AFTER WATER SYSTEM HAS BEEN APPROVED FOR SERVICE BY THE DEPARTMENT.

THE DEPARTMENT SHALL BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE OF ANY TESTING PROCEDURES. AFTER FLUSHING IS COMPLETED, LINE PRESSURE SHALL BE APPLIED TO THI WATER SYSTEM TO DETERMINE IF ANY MAJOR DEFECTS ARE PRESENT. THE COMPLETE WATER SYSTEM SHALL THEN BE TESTED AT A PRESSURE OF 150 PSI FOR A PERIOD OF NOT LESS THAN TWO HOURS. THE DEPARTMENT MAY, AT ITS DISCRETION, INCREASE THE PERIOD TO FOUR HOURS. MAXIMUM LENGTH OF LINE TO BE TESTED AT ONE TIME SHALL NOT EXCEED 1500 LINEAR FEET. AN OIL FILLED PRESSURE GAUGE UP TO 200 PSI AT 2 POUND INCREMENTS SHALL BE USED FOR ALL PRESSURE TESTS. NO VISIBLE MOVEMENT OF THE SYSTEM SHALL OCCUR AND LEAKAGE SHALL NOT EXCEED:

 $\frac{-NDVP}{7400}$  PER HOUR L= LEAKAGE IN GALLONS N= NUMBER OF JOINTS IN TEST SECTION P= TEST PRESSURE IN PSI.

D= DIAMETER OF PIPE IN INCHES

NOTE: MARTIN COUNTY UTILITIES DEPARTMENT'S MINIMUM DESIGN AND CONSTRUCTION STANDARDS (LATEST EDITION), ARE TO BE ADHERED TO AND WILL BE ENFORCED TO AT LEAST THESE MINIMUM

> 48 HOURS BEFORE DIGGING SUNSHINE STATE ONE CALL OF FLORIDA, INC UNDERGROUND UTILITIES NOTIFICATION CENTER

MARTIN COUNTY CONSTRUCTION STANDARDS & DETAILS

**DWG No** REVISION GENERAL NOTES, SPECIFICATIONS AUGUST 2016 AND SEPARATION STATEMENT

GENERAL NOTES (Cont.):

8. DENSITY TESTS OF TRENCH BACKFILL MATERIAL SHALL BE REQUIRED AT INTERVALS OF NOT MORE THAN 500 FEET. DENSITY TESTS OF PAVEMENT OPEN-CUT AREAS INCLUDING ROADS, TURNLANES, AND DRIVES SHALL BE REQUIRED AT EACH OPEN-CUT AT INTERVALS OF NOT MORE THAN 50 FEET. ALL TESTS SHALL COMMENCE AT THE TOP OF CONDUIT AND EVERY 12 INCHES TO THE FINISH GRADE. COMPACTION SHALL BE IN ACCORDANCE WITH MARTIN COUNTY UTILITIES CONSTRUCTION STANDARDS "TYPICAL TRENCH DETAIL" AND "FLEXIBLE PAVEMENT REPLACEMENT DETAIL". FLORIDA BEARING TESTS FOR THE STABILITY OF EXISTING SUBSOIL SHALL BE TAKEN AT INTERVALS OF NOT MORE THAN 500 FEET, AND CLOSER AS MIGHT BE NECESSARY IN THE EVENT OF VARIATIONS IN THE STRATA. A CERTIFIED COPY OF THE TESTS SHALL BE PROVIDED TO THE DEPARTMENT AND THE FLORIDA DEPARTMENT OF TRANSPORTATION OR MARTIN COUNTY ENGINEERING DEPARTMENT DEPENDING ON JURISDICTION. CONTRACTORS BID PRICE SHALL INCLUDE PAYMENT FOR ALL TESTS CONDUCTED BY AN INDEPENDENT TESTING LAB.

9. ANY LANDSCAPING DISTURBED, UNLESS OTHERWISE SHOWN ON THE PLANS, SHALL BE REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE DEPARTMENT AT THE CONTRACTORS

10. ANY SIDEWALK, CURB AND GUTTER OR PAVEMENT DISTURBED, UNLESS OTHERWISE SHOWN ON PLANS, SHALL BE REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. UNLESS OTHERWISE SPECIFIED OR INDICATED, ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 psi AT 28 DAYS AND ALL CONCRETE WORK SHALL COMPLY WITH THE CURRENT EDITION OF THE AMERICAN CONCRETE INSTITUTE (ACI) BUILDING CODE AND THE APPLICABLE BUILDING CODES HAVING JURISDICTION IN THE AREA. ALL CONSTRUCTION SHALL MEET ADA REQUIREMENTS. THIS INCLUDES, BUT IS NOT LIMITED TO, DETECTABLE WARNING SURFACES.

ALL SOD IS TO BE PLACED FOR THE FULL WIDTH DISTURBED AT THE PER LINEAR FOOT UNIT PRICE FOR SOD. SOD SHALL BE REPLACED TO MATCH EXISTING KIND UNLESS OTHERWISE SHOWN

12. CONTRACTOR SHALL PROVIDE PROPER BENDS TO MAINTAIN REQUIRED DEPTH AND ALIGNMENT OF PIPE. COST OF BENDS NOT DESIGNATED ON PLANS SHALL BE INCLUDED WITH THE UNIT PRICE

13. ANY TREES AND/OR SCRUB OR OTHER VEGETATION NOT TO BE REPLACED SHALL BE REMOVED FROM THE PROJECT AT THE CONTRACTOR'S EXPENSE.

14. ALL RUBBLE AND UNSUITABLE MATERIAL MUST BE REMOVED FROM THE PROJECT AND DISPOSED OF PROPERLY BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. 15. MAILBOXES MUST BE CAPABLE OF RECEIVING MAIL AT ALL TIMES.

16. DEFLECT PIPE AS NECESSARY TO OBTAIN THE REQUIRED ALIGNMENT. USE APPROPRIATE FITTINGS WHEN DEFLECTION EXCEEDS 75% OF MANUFACTURER'S RECOMMENDED MAXIMUM

17. ALL FITTINGS SHALL BE MECHANICALLY RESTRAINED. REFER TO MARTIN COUNTY UTILITIES DEPARTMENT MINIMUM DESIGN & CONSTRUCTION STANDARDS (LATEST EDITION).

18. ALL CONSTRUCTION DEWATERING (WELL POINTS, SUMPS, ETC.) WILL REQUIRE A DEWATERING PERMIT FROM SOUTH FLORIDA WATER MANAGEMENT DISTRICT. THIS SHALL BE OBTAINED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE PRIOR TO BEGINNING OF CONSTRUCTION.

19. THE "TRENCH SAFETY ACT" SHALL BE INCORPORATED INTO THIS CONTRACT AS ENACTED BY THE LEGISLATURE OF THE STATE OF FLORIDA TO BE IN EFFECT AS OF OCTOBER 1, 1990.

20. A U-2 PERMIT IS REQUIRED FOR ALL WORK WITHIN COUNTY RIGHT-OF-WAY. THIS PERMIT MUST BE OBTAINED BY THE CONTRACTOR FROM THE MARTIN COUNTY ENGINEERING DEPARTMENT. ALL COSTS PAYABLE BY THE CONTRACTOR. A COPY OF THIS PERMIT MUST BE MAINTAINED ON THE PROJECT SITE AT ALL TIMES DURING CONSTRUCTION.

21. ALL CONCRETE AND ASPHALT DRIVES MUST BE REPLACED FROM SAW CUT TO EDGE OF

REVISION DWG No GENERAL NOTES, SPECIFICATIONS 1B AUGUST 2016 AND SEPARATION STATEMENT

MARTIN COUNTY CONSTRUCTION STANDARDS & DETAILS

STANDARD WATER/SEWER SEPARATION STATEMENT

For the purpose of this section, the phrase "water mains" shall mean mains, including treatment plant process piping, conveying either raw, partially treated, or finished drinking water; fire hydrant leads; and service lines that are under the control of a public water system and that have an inside diameter of three inches or greater. (1) Horizontal Separation Between Underground Water Mains and Sanitary or Storm Sewers, Wastewater or Stormwater Force Mains, Reclaimed Water Pipelines, and On-Site Sewage Treatment and Disposal Systems. (a) New or relocated, underground water mains shall be laid to provide a horizontal distance of at least three feet between the outside of the water main and the outside of any existing or proposed storm sewer, Stormwater force main, or pipeline reclaimed water regulated under Part III of Chapter 62–610, F.A.C. (b) New or relocated, underground water mains shall be laid to provide a horizontal distance of at least three feet, and preferably ten feet, between the outside of the water main and the outside of any existing or proposed vacuum—type sanitary sewer. (c) New or relocated underground water mains shall be laid to provide a horizontal distance of at least six feet, and preferably ten feet, between the outside of the water main and the outside of any existing or proposed gravity— or pressure—type sewer, wastewater force main, or pipeline conveying reclaimed water not regulated under Part III of Chapter 62—610, F.A.C minimum horizontal separation distance between water mains and gravity-type sanitary sewers shall be reduced to three feet where the bottom of the water main is laid at least six inches above the top of the sewer. (d) New or relocated, underground water mains shall be laid to provide a horizontal distance of at least ten feet between the outside of the water main and all parts of any existing or proposed "on—site sewage treatment and disposal system" as defined in Section 381.0065(2), F.S., and Rule 64E-6.002, F.A.C. (2) Vertical Separation Between Underground Water Mains and Sanitary or Storm Sewers, Wastewater or Stormwater Force Mains, (a) New or relocated, underground water mains crossing any existing or proposed gravity— or vacuum—type sanitary sewer or storm sewer shall be laid so the outside of the water main is at least six inches, and preferably 12 inches, above or at least 12 inches below the outside of the other pipeline. However, it is preferable to lay the water main above the other pipeline. (b) New or relocated, underground water mains crossing any existing or proposed pressure—type sanitary sewer, wastewater or stormwater force main, or pipeline conveying reclaimed water shall be laid so the outside of the water main is at least 12 inches above or below the outside of the other pipeline. However, it is preferable to lay the water main above the other pipeline. (c) At the utility crossings described in paragraphs (a) and (b) above, one full length of water main pipe shall be centered above or below the other pipeline so the water main joints will be as far as possible from the other pipeline. Alternatively, at such crossings, the pipes shall be arranged so that all water main joints are at least three feet from all joints in vacuum—type sanitary sewers, storm sewers, stormwater force mains, or pipelines conveying reclaimed water regulated under Part III of Chapter 62-610,

(3) Separation Between Water Mains and Sanitary or Storm Sewer Manholes. ) No water main shall pass through, or come into contact with, any part of a sanitary sewer manhole. (b) Effective August 28, 2003, water mains shall not be constructed or altered to pass through, or come into contact with, any part of a storm sewer manhole or inlet structure. Where it is not technically feasible or economically sensible to comply with this requirement (i.e., where there is a conflict in the routing of a water main and a storm sewer and where alternative routing of the water main or the storm sewer is not technically feasible or is not economically sensible), the Department shall allow exceptions to this requirement (i.e., the Department shall allow construction of conflict manholes), but suppliers of water or persons proposing to construct conflict manholes must first obtain a specific permit from the Department in accordance with Part V of this chapter and must provide in the preliminary design report or drawings, specifications, and design data accompanying their permit application

F.A.C., and at least six feet from all joints in gravity— or pressure—type sanitary sewers, wastewater force mains, or pipelines conveying reclaimed water not regulated under Part III of Chapter 62—610, F.A.C.

2. A statement identifying the party responsible for maintaining each conflict manhole.
3. Assurance of compliance with the design and construction requirements in sub—subparagraphs a. through d. below. a. Each water main passing through a conflict manhole shall have a flexible, watertight joint on each side of the manhole to commodate differential settling between the main and the manhole.

b. Within each conflict manhole, the water main passing through the manhole shall be installed in a watertight casing pipe having high impact strength (i.e., having an impact strength at least equal to that of 0.25—inch—thick ductile iron pipe).

c. Each conflict manhole shall have an access opening, and shall be sized, to allow for easy cleaning of the manhole.

d. Gratings shall be installed at all storm sewer inlets upstream of each conflict manhole to prevent large objects from entering

Technical or economic justification for each conflict manhole.

(4) Separation Between Fire Hydrant Drains and Sanitary or Storm Sewers, Wastewater or Stormwater Force Mains, Reclaimed Water Pipelines, and On-Site Sewage Treatment and Disposal Systems. New or relocated fire hydrants with underground drains shall be located so that the drains are at least three feet from any existing or proposed storm sewer, stormwater force main, or pipeline conveying reclaimed water regulated under Part III of Chapter 62—610, F.A.C.; at least three feet, and preferably ten feet, from any existing or proposed vacuum—type sanitary sewer; at least six feet, and preferably ten feet, from any existing or proposed gravity— or pressure—type sanitary sewer, wastewater force main, or pipeline conveying reclaimed water not regulated under Part III of Chapter 62—610, F.A.C.; and at least ten feet from any existing or proposed "on—site sewage treatment and disposal system" as defined in Section 381.0065(2), F.S., and Rule 64E—6.002, F.A.C. (5) Exceptions. Where it is not technically feasible or economically sensible to comply with the requirements in subsection (1) or (2) above, the Department shall allow exceptions to these requirements if suppliers of water or construction permit applicants provide

technical or economic justification for each exception and provide alternative construction features that afford a similar level of

reliability and public health protection. Acceptable alternative construction features include the following: (a) Where an underground water main is being laid less than the required minimum horizontal distance from another pipeline and where an underground water main is crossing another pipeline and joints in the water main are being located less than the required minimum distance from joints in the other pipeline:

1. Use of pressure—rated pipe conforming to the American Water Works Association standards incorporated into Rule 62-555.330, F.A.C., for the other pipeline if it is a gravity- or vacuum-type pipeline;

2. Use of welded, fused, or otherwise restrained joints for either the water main or the other pipeline; or

3. Use of watertight casing pipe or concrete encasement at least four inches thick for either the water main or the other pipeline. (b) Where an underground water main is being laid less than three feet horizontally from another pipeline and where an underground water main is crossing another pipeline and is being laid less than the required minimum vertical distance 1. Use of pipe, or casing pipe, having high impact strength (i.e., having an impact strength at least equal to that of 0.25-inch-thick ductile iron pipe) or concrete encasement at least four inches thick for the water main; and 2. Use of pipe, or casing pipe, having high impact strength (i.e., having an impact strength at least equal to that of 0.25-inch-thick ductile iron pipe) or concrete encasement at least four inches thick for the other pipeline if it is new and is conveying wastewater or reclaimed water.

MARTIN COUNTY CONSTRUCTION STANDARDS & DETAILS

EVISION GENERAL NOTES, SPECIFICATIONS AUGUST 2016 AND SEPARATION STATEMENT

GENERAL NOTES (Cont.):

22. LOCATIONS OF FIRE HYDRANTS AND AIR RELEASE VALVES ARE APPROXIMATE ONLY. FINAL LOCATIONS WILL BE DETERMINED BY DEPARTMENT PERSONNEL IN FIELD.

23. MAXIMUM LENGTH OF WATER MAIN AND FORCE MAIN PRESSURE TEST SHALL BE 1500 FEET. WATER SOURCE FOR FLUSHING, FILLING AND PRESSURE TESTING THE WATER MAIN SHALL BE FROM A TREATED SOURCE APPROVED BY THE DEPARTMENT.

24. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION AND RESTORATION (IF DAMAGED) OF ALL EXISTING STRUCTURES WITHIN THE CONSTRUCTION LIMITS OF THE PROJECT, INCLUDING BUT NOT LIMITED TO WALLS, FENCES, POWER POLES, MAIL BOXES, DRAINAGE PIPES AND STRUCTURES,

25. THE CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING WATER SERVICES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL PROTECT THE EXISTING WATER SERVICES FROM DAMAGE AND REPAIR ANY BREAKS IMMEDIATELY.

26. "RECORD DRAWINGS" SHALL INCLUDE FURNISHING MARTIN COUNTY UTILITIES DEPARTMENT WITH ALL INFORMATION NECESSARY FOR A COMPLETE SET OF RECORD DRAWINGS AS STIPULATED IN THE MARTIN COUNTY UTILITIES DEPARTMENT MINIMUM DESIGN AND CONSTRUCTION STANDARDS (LATEST

27. MECHANICALLY RESTRAIN LENGTHS, AS INDICATED ON DRAWING No. 20, ON EACH SIDE OF ALL BENDS AND AS INSTRUCTED IN MARTIN COUNTY UTILITIES DEPARTMENT SPECIFICATIONS. MECHANICAL RESTRAINTS SHALL BE EITHER MEG-A-LUG, TYLER OR UNIFLANGE. THE CONTRACTORS BID PRICE FOR PIPE, GATE VALVES AND FITTINGS SHALL INCLUDE MECHANICAL

28. THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL SUPPORT UTILITIES AND SHORE TRENCH AS REQUIRED TO PROTECT AND MAINTAIN EXISTING UTILITIES. THE CONTRACTOR SHALL NOTIFY EACH UTILITY PRIOR TO ATTEMPTING TO SUPPORT THEIR FACILITIES. IF THE UTILITY REQUIRES THAT ONLY THEIR CREWS SHALL BE ALLOWED TO SUPPORT THEIR FACILITIES, THEN IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO COORDINATE WORK AND PAY THE UTILITY FOR THEIR EXPENSES IF REQUIRED. ALL COSTS FOR THIS WORK SHALL BE AT THE CONTRACTORS EXPENSE AND INCLUDED IN THE CONTRACTORS BID PRICE.

29. ALL PRESSURE TESTS SHALL BE IN ACCORDANCE WITH AWWA STANDARDS.

30. AIR RELEASE VALVE VAULT COVERS SHALL BE CONSTRUCTED PER DETAIL AS SHOWN IN THE DEPARTMENTS MINIMUM DESIGN AND CONSTRUCTION STANDARDS.

31. ALL WATER SERVICES SHALL BE DIRECTIONALLY DRILLED UNDER EXISTING PAVEMENT.

32. VALVE STEM RISER SHALL BE REQUIRED WHERE OPERATING NUT DEPTH EXCEEDS 4 FEET. THE RISER SHALL BE BOLTED TO THE VALVE NUT. METHOD AND MATERIALS SHALL BE APPROVED BY THE DEPARTMENT. COST FOR THIS WORK SHALL BE INCLUDED IN THE CONTRACTORS BID UNIT

33. THE CONTRACTOR SHALL CLEAN MAINS USING APPROVED POLYURETHANE PIG(S). TEMPORARY CLEANING STATIONS SHALL BE CONSTRUCTED BY THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE A CLEANING PLAN SHOWING METHOD OF FILLING AND CLEANING MAINS PRIOR TO START OF CONSTRUCTION. THE CLEANING PLAN SHALL BE APPROVED BY THE DEPARTMENT PRIOR TO CONSTRUCTION. ALL COSTS FOR FILLING AND CLEANING SHALL BE AT THE CONTRACTORS

34. A FLORIDA DEPARTMENT OF TRANSPORTATION PERMIT IS REQUIRED FOR ALL WORK, EXCEPT PERPENDICULAR CONNECTIONS, WITHIN THE STATE RIGHT-OF-WAY. A COPY OF THIS PERMIT MUST BE MAINTAINED ON THE PROJECT SITE AT ALL TIMES DURING CONSTRUCTION.

35. THE CONTRACTOR SHALL INSTALL TESTING POINTS FOR PRESSURE & BACTERIOLOGICAL TESTING OF WATER MAINS. THE CONTRACTOR SHALL INSTALL AND REMOVE AND PLUG CORP. STOPS PER MARTIN COUNTY UTILITIES STANDARDS "SAMPLE POINT DETAIL". THE LOCATION OF TEST POINTS SHALL BE APPROVED BY THE DEPARTMENT.

MARTIN COUNTY CONSTRUCTION STANDARDS & DETAILS

REVISION GENERAL NOTES, SPECIFICATIONS AUGUST 2016 AND SEPARATION STATEMENT

> KNOW WHAT'S BELO ALWAYS CALL 8 ® BEFORE YOU D

IS DOCUMENT, TOGETHER WITH THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS INTENDED ONLY FOR THE SPECI Civil Engineering Professionals

301 N.W. Flagler Ave Stuart, Florida 34994 Phone: (772) 692-4344 Fax: (772) 692-4341

E-mail: captecinfo@gocaptec.com

No. EB-0007657

DATE: 03-27-2020 DRAWN BY: MDB DESIGNED BY: SPM CHECKED BY: JWC 1329.2 PROJECT No.: HORZ. SCALE: Engineering Business

VERT. SCALE:

SCALE VERIFICATION **SOLID BAR IS EQUAL** TO ONE INCH ON ORIGINAL DRAWING, ADJUST ALL SCALED DIMENSIONS **ACCORDINGLY** 

ILIVI WITHOUT	WINITIEN AO	ITHORIZATION AND ADOPTION BY CAPTEC ENGINEERING, INC. SHALL BE WITHOUT LIABILITY TO CAPTEC ENGINEERING, INC.	
		REVISIONS	
1	MDB	PERMIT PLANS	03-27-20
NO.	BY	DESCRIPTION	DATE

THE RESERVE AT JENSEN BEACH

DWG No.

MARTIN COUNTY, FLORIDA

**GENERAL NOTES** 

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

SHEET

1329.2 NOTES - DETAILS

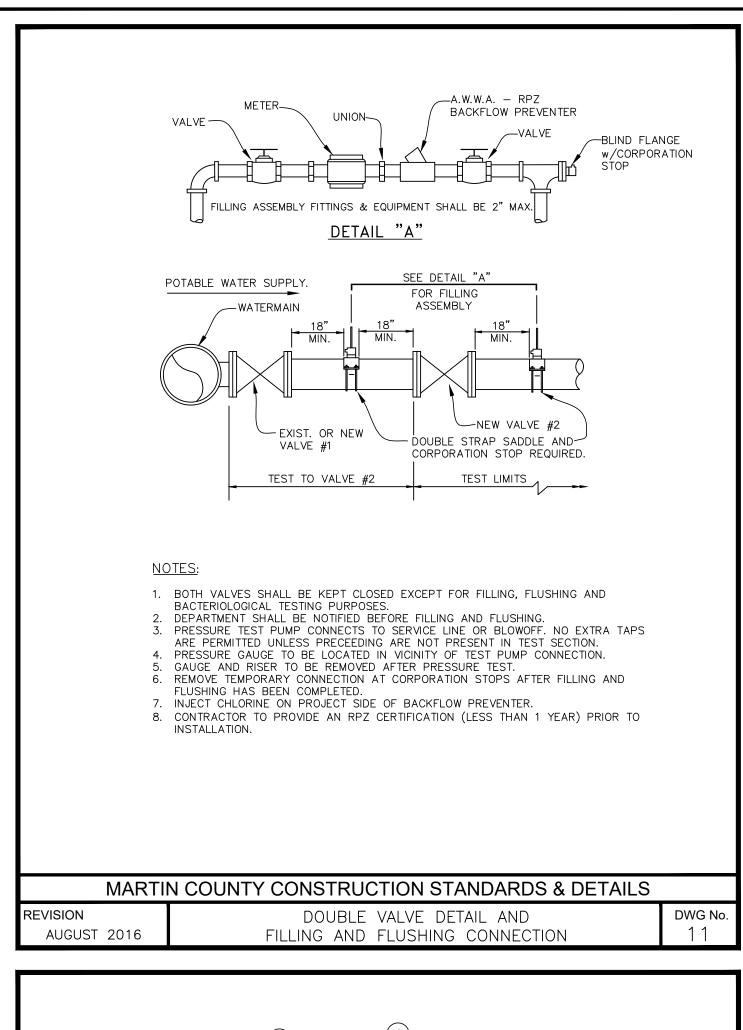
SHEET

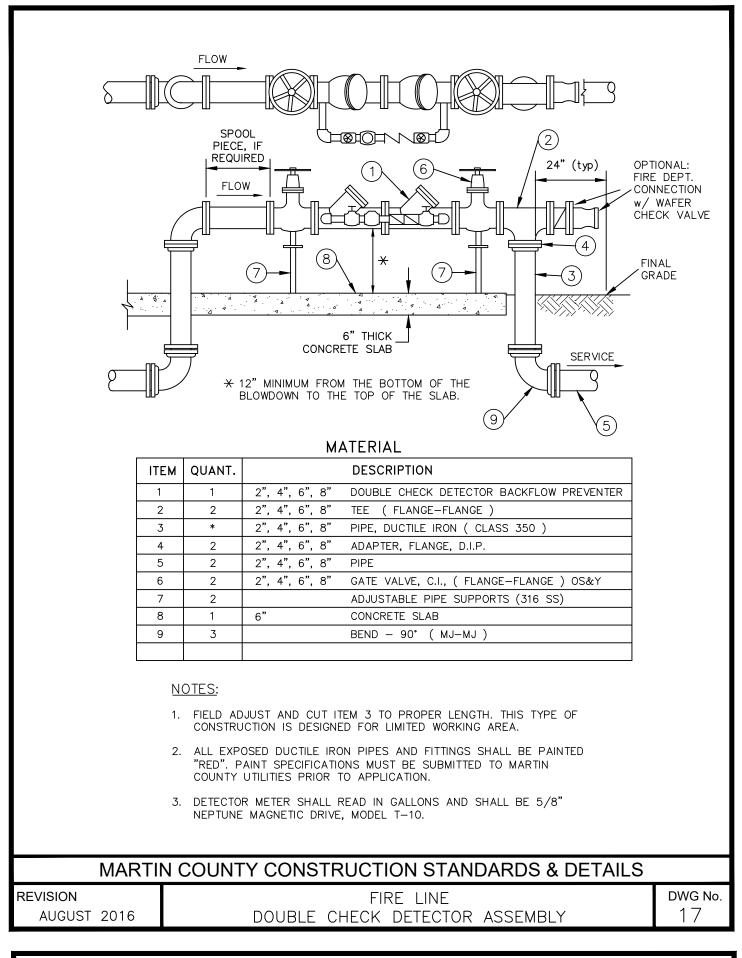
IDENTIFICATION

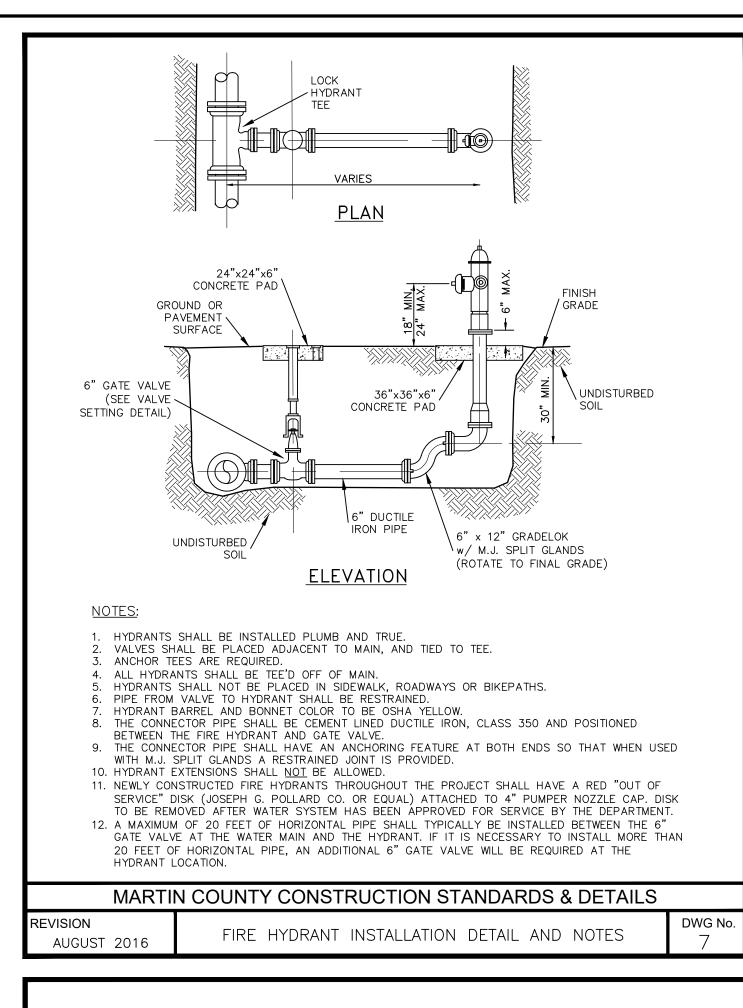
JOB No.: **1329.2** 

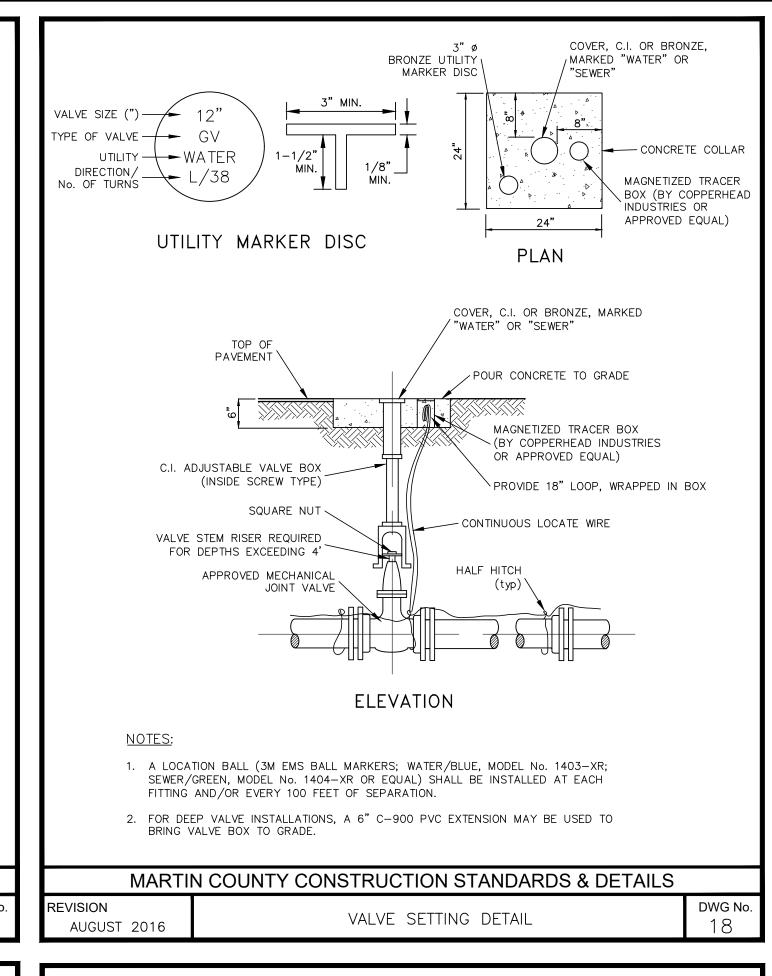
SHEET **24** OF **28** 

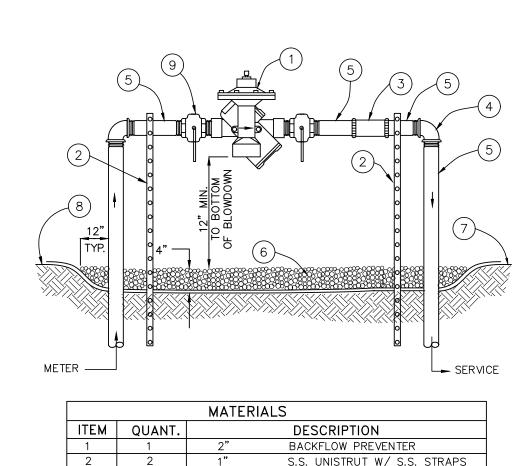
DWG No







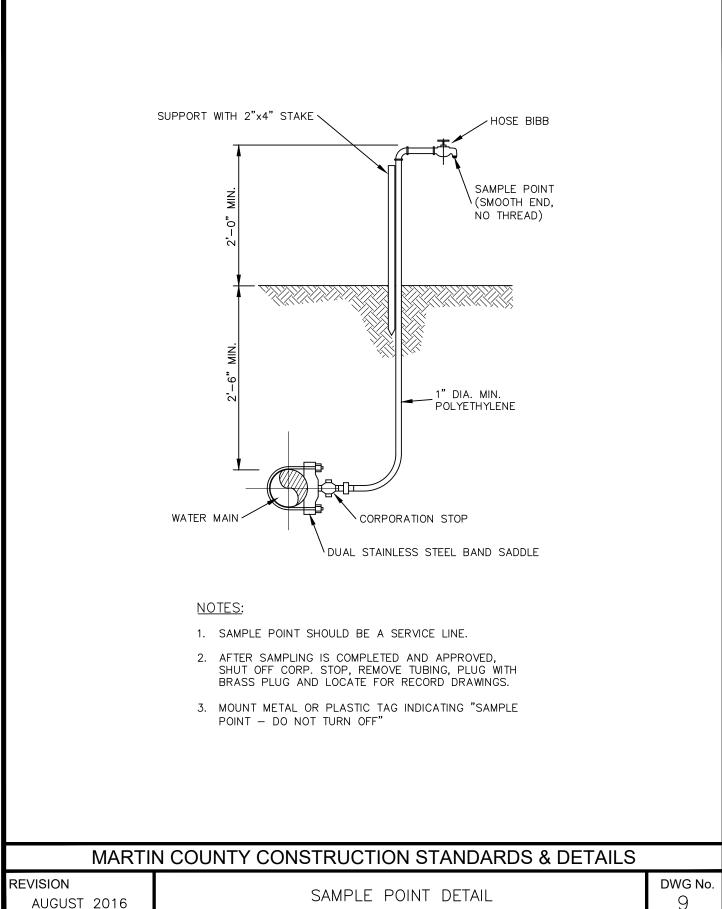


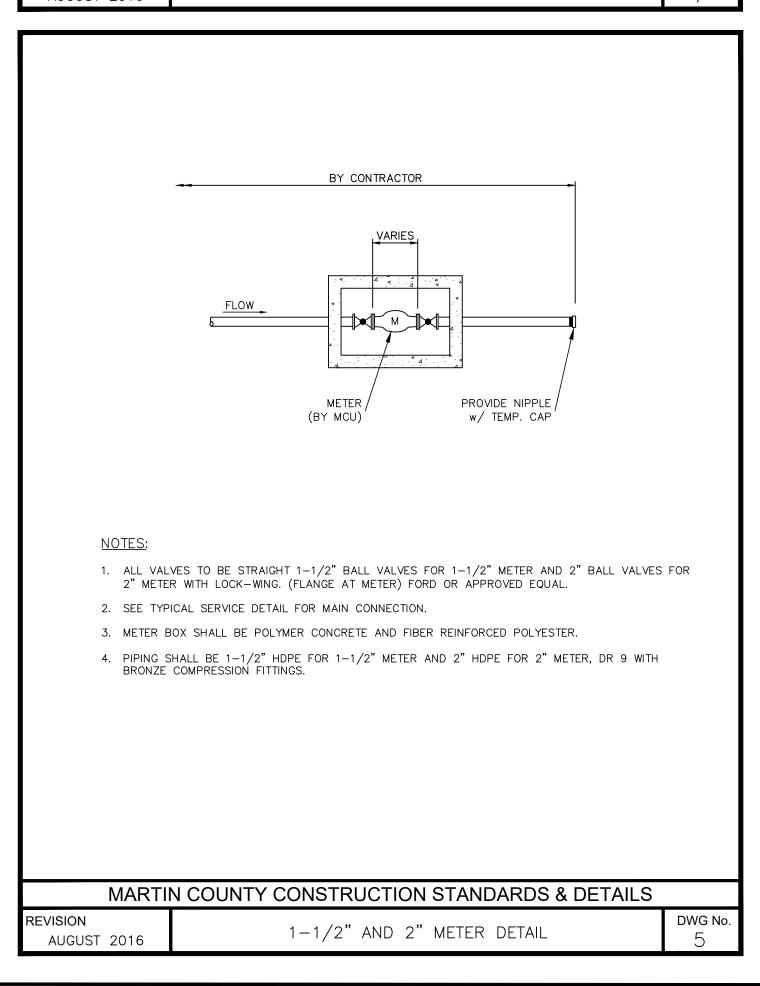


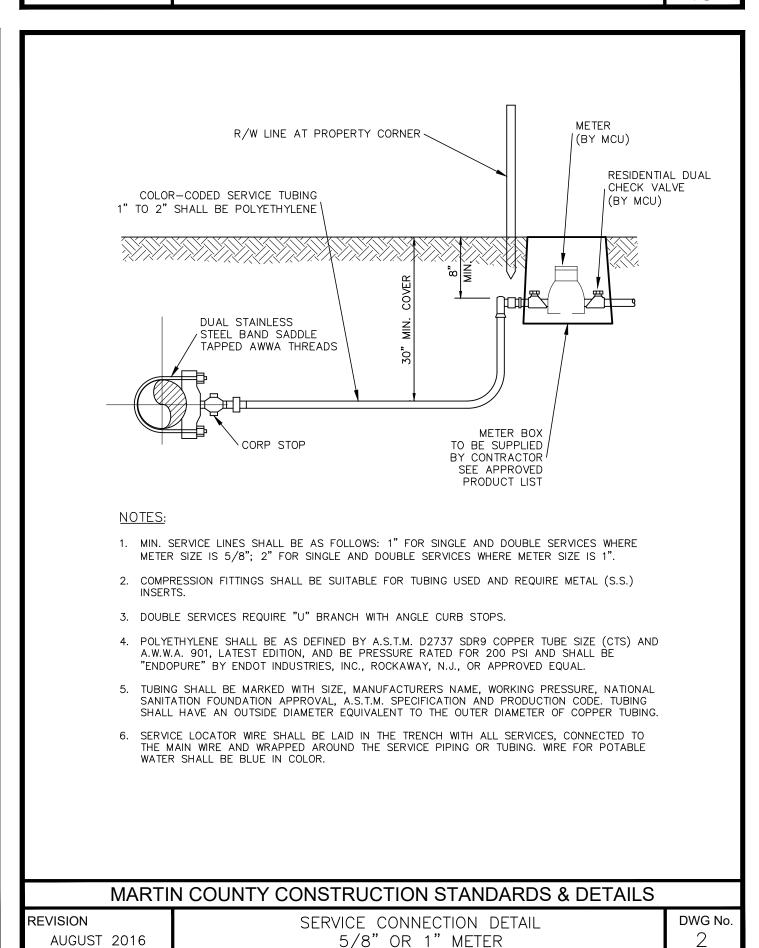
	MATERIALS				
ITEM	QUANT.		DESCRIPTION		
1	1	2"	BACKFLOW PREVENTER		
2	2	1"	S.S. UNISTRUT W/ S.S. STRAPS		
3	1	2"	COUPLING - COMPRESSION		
4	2	2" X 90°	ELBOW		
5	4	2" X 6"	NIPPLES		
6			PEA GRAVEL		
7		-	FILTER FABRIC		
8			FINISHED GRADE		
9	2		RALL VALVE		

- 1. INSTALLATION SHOWN ABOVE IS FOR A 2" SERVICE. CHANGE PIPING MATERIALS ACCORDINGLY FOR SERVICE SIZE.
- 2. USE COPPER, BRASS OR STAINLESS STEEL FOR FITTINGS AND PIPE MATERIAL

MARTI	N COUNTY CONSTRUCTION STANDARDS & DETAILS	
REVISION	REDUCED PRESSURE BACKFLOW PREVENTER	DWG N
AUGUST 2016	SINGLE SERVICE 3/4", 1", 1-1/2" AND 2"	13









301 N.W. Flagler Ave Stuart, Florida 34994 Phone: (772) 692-4344 Fax: (772) 692-4341

E-mail: captecinfo@gocaptec.con Engineering Business No. EB-0007657

DATE: 03-27-2020 DRAWN BY: MDB DESIGNED BY: SPM CHECKED BY: JWC PROJECT No.: HORZ. SCALE: VERT. SCALE:

**REVISIONS** SCALE TO ONE INCH ON ORIGINAL DRAWING, ADJUST ALL SCALED DIMENSIONS MDB PERMIT PLANS **ACCORDINGLY** 

03-27-202

DATE

THE RESERVE AT JENSEN BEACH

MARTIN COUNTY, FLORIDA

**WATER STANDARD DETAILS** 

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

1329.2 NOTES - DETAILS

CADD FILE:

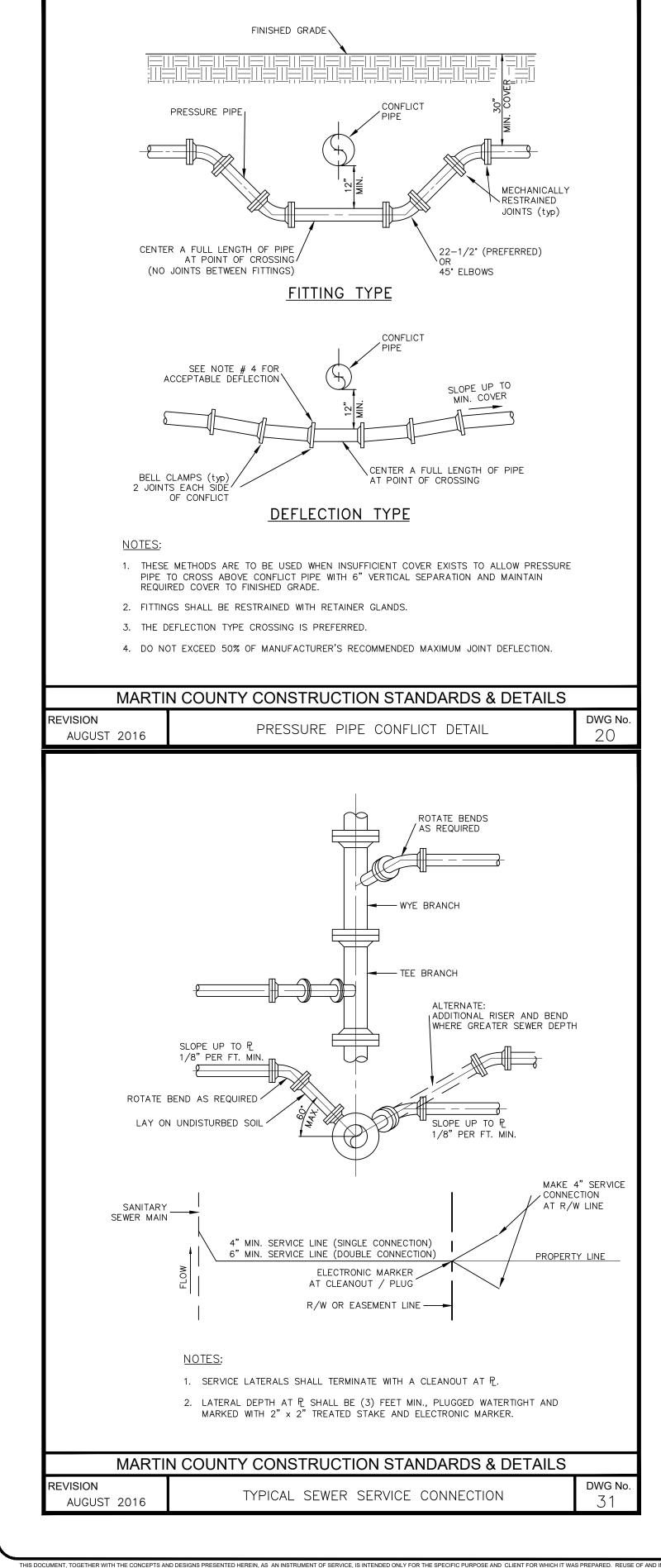
SHEET **IDENTIFICATION** JOB No.: **1329.2** 

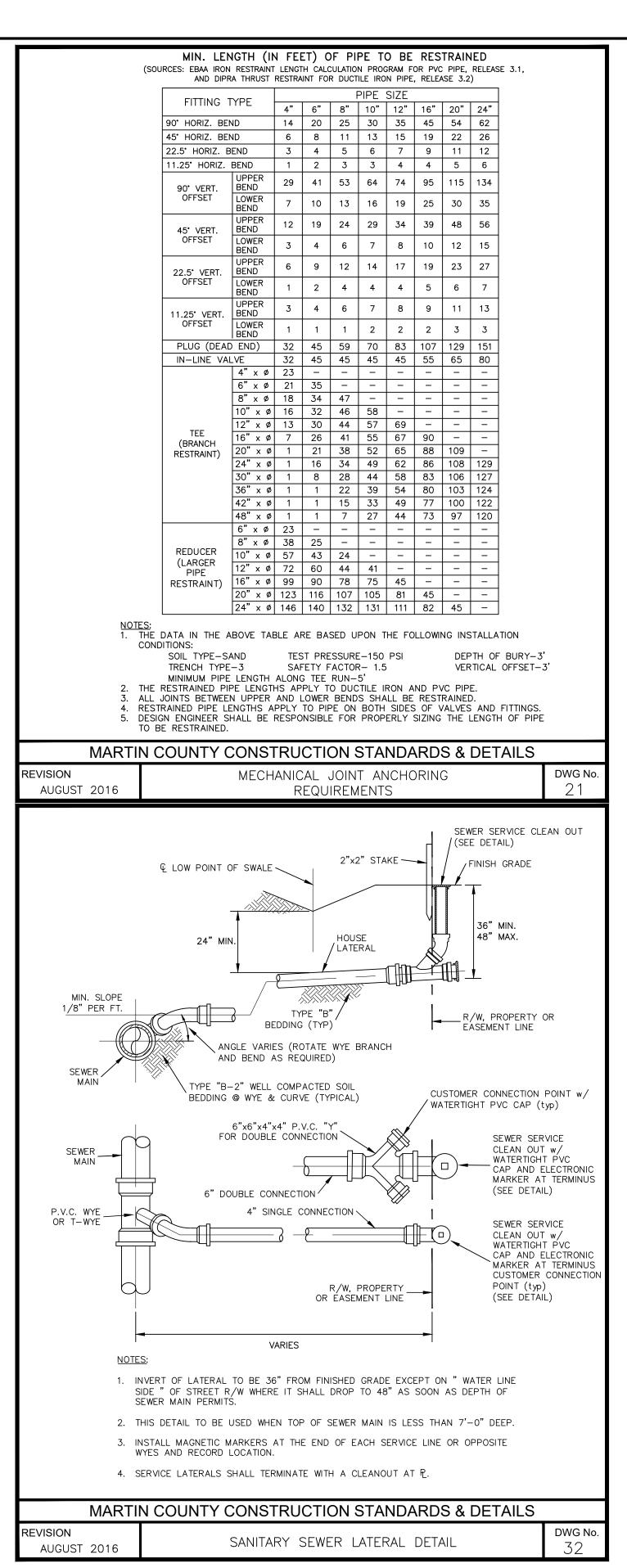
SHEET

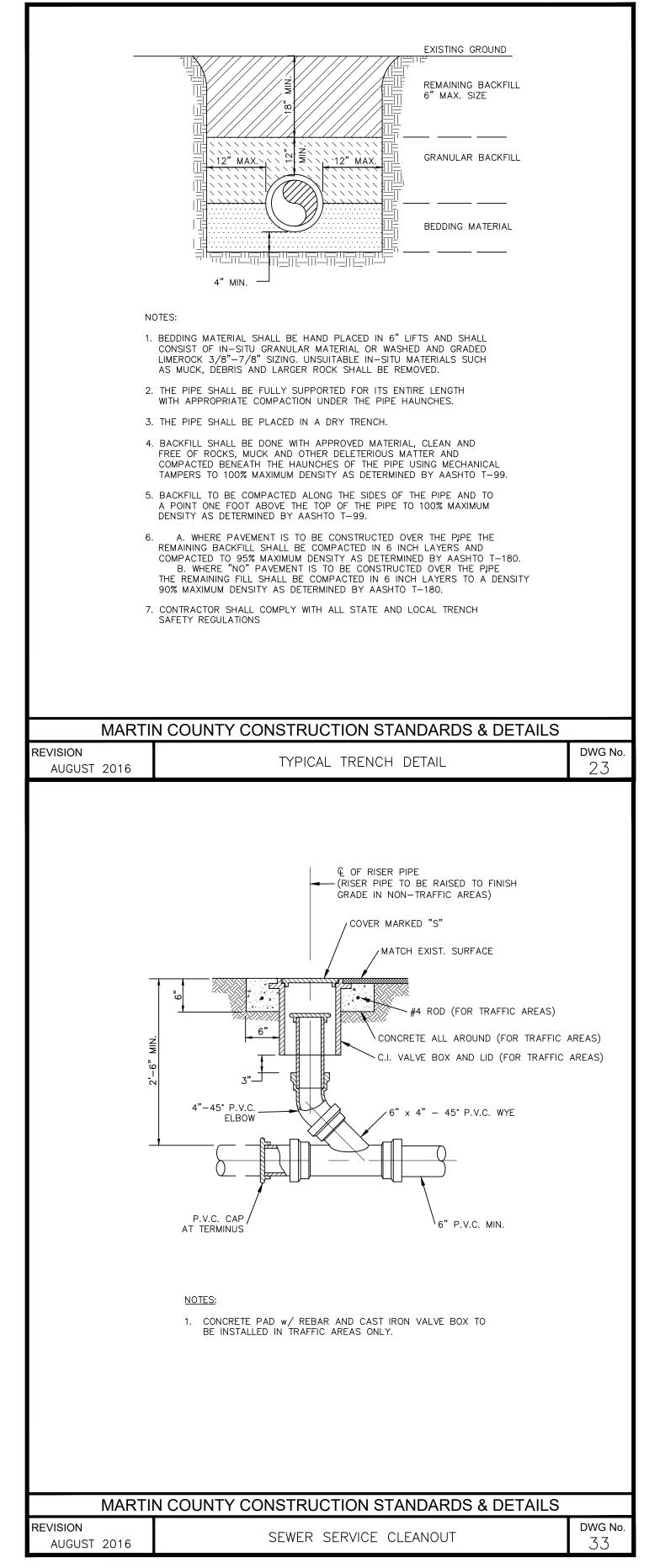
SHEET **25** OF **28** 

HIS DOCUMENT, TOGETHER WITH THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS INTENDED ONLY FOR THE SPE

**VERIFICATION SOLID BAR IS EQUAL** 









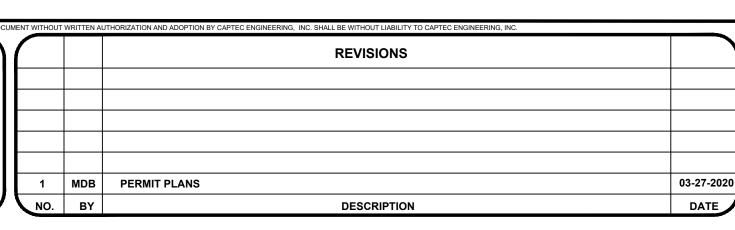


301 N.W. Flagler Ave Stuart, Florida 34994 Phone: (772) 692-4344 Fax: (772) 692-4341 E-mail: captecinfo@gocaptec.co

**Engineering Business** No. EB-0007657

DATE: 03-27-2020 DRAWN BY: MDB DESIGNED BY: SPM CHECKED BY: JWC PROJECT No.: HORZ. SCALE: VERT. SCALE:

SCALE **VERIFICATION SOLID BAR IS EQUAL** TO ONE INCH ON ORIGINAL DRAWING, ADJUST ALL SCALED DIMENSIONS **ACCORDINGLY** 



THE RESERVE AT JENSEN BEACH

MARTIN COUNTY, FLORIDA

SANITARY STANDARD DETAILS

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

1329.2 NOTES - DETAILS CADD FILE:

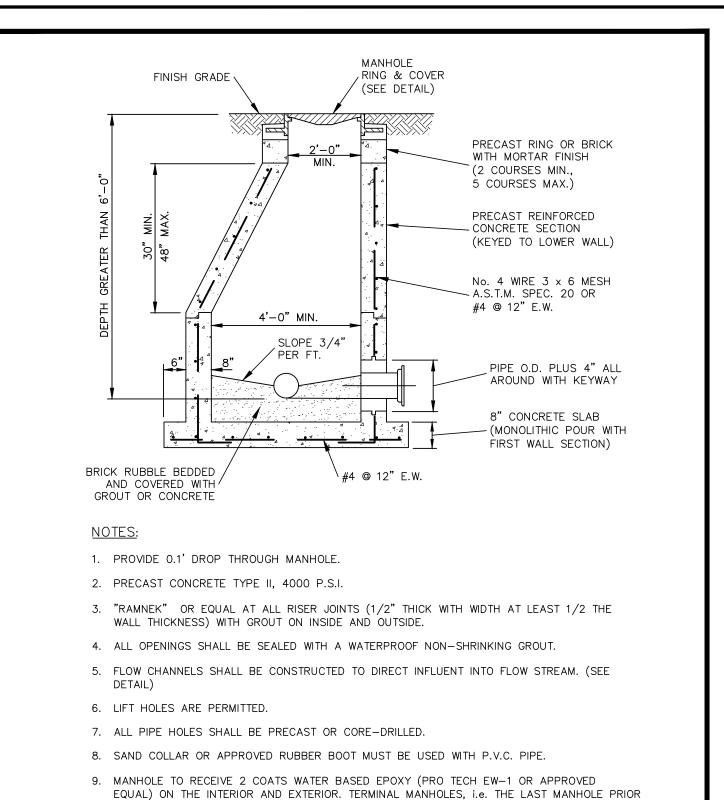
SHEET

**SHEET 26 OF 28** 

SHEET

**IDENTIFICATION** 

JOB No.: **1329.2** 



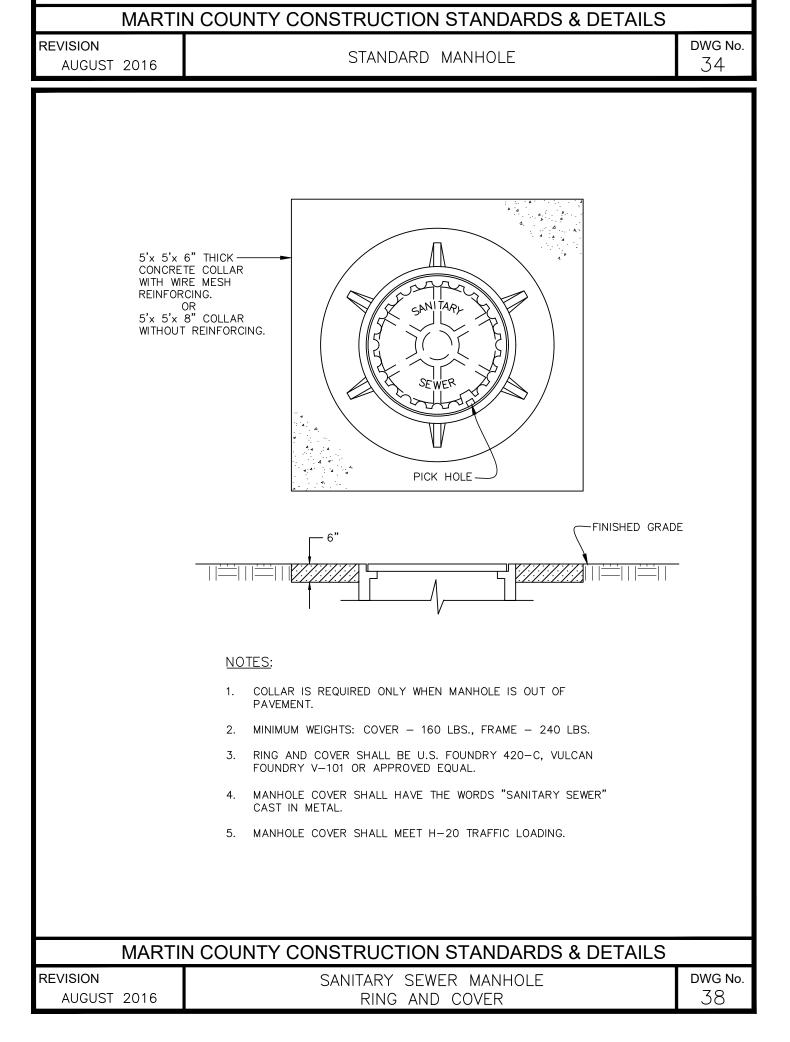
TO DISCHARGE TO A LIFT STATION, SHALL RECEIVE 2 COATS OF WATER BASED EPOXY ON

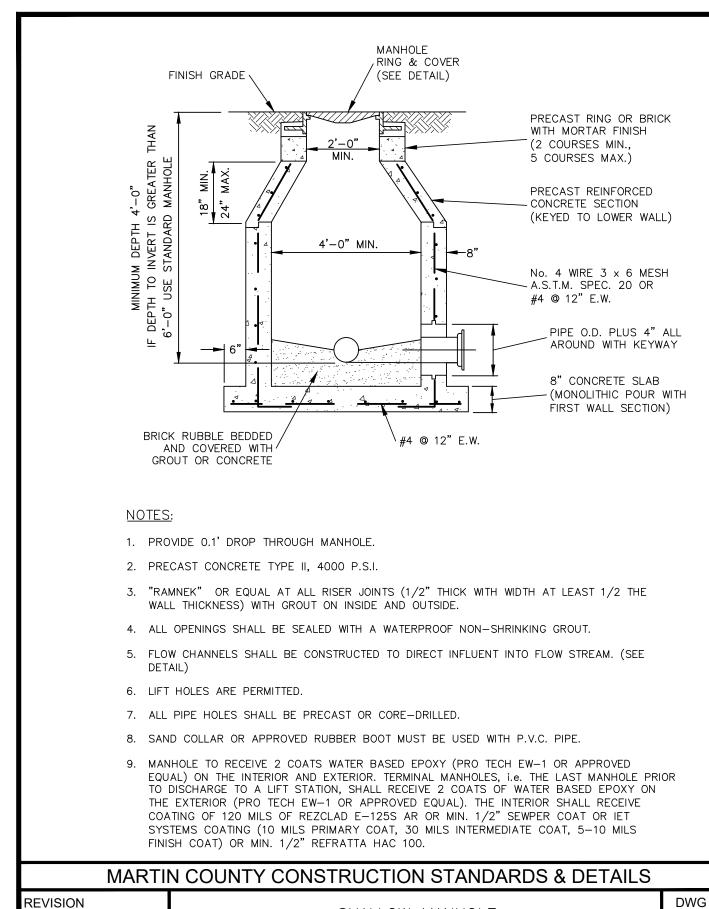
THE EXTERIOR (PRO TECH EW-1 OR APPROVED EQUAL). THE INTERIOR SHALL RECEIVE

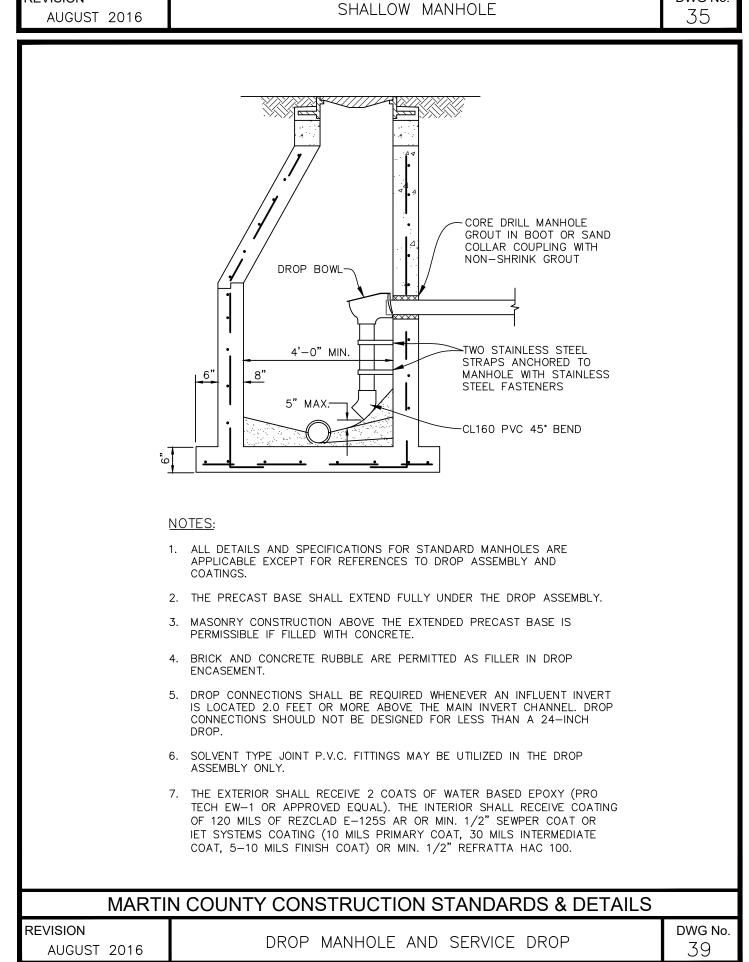
COATING OF 120 MILS OF REZCLAD E-125S AR OR MIN. 1/2" SEWPER COAT OR IET

FINISH COAT) OR MIN. 1/2" REFRATTA HAC 100.

SYSTEMS COATING (10 MILS PRIMARY COAT, 30 MILS INTERMEDIATE COAT, 5-10 MILS

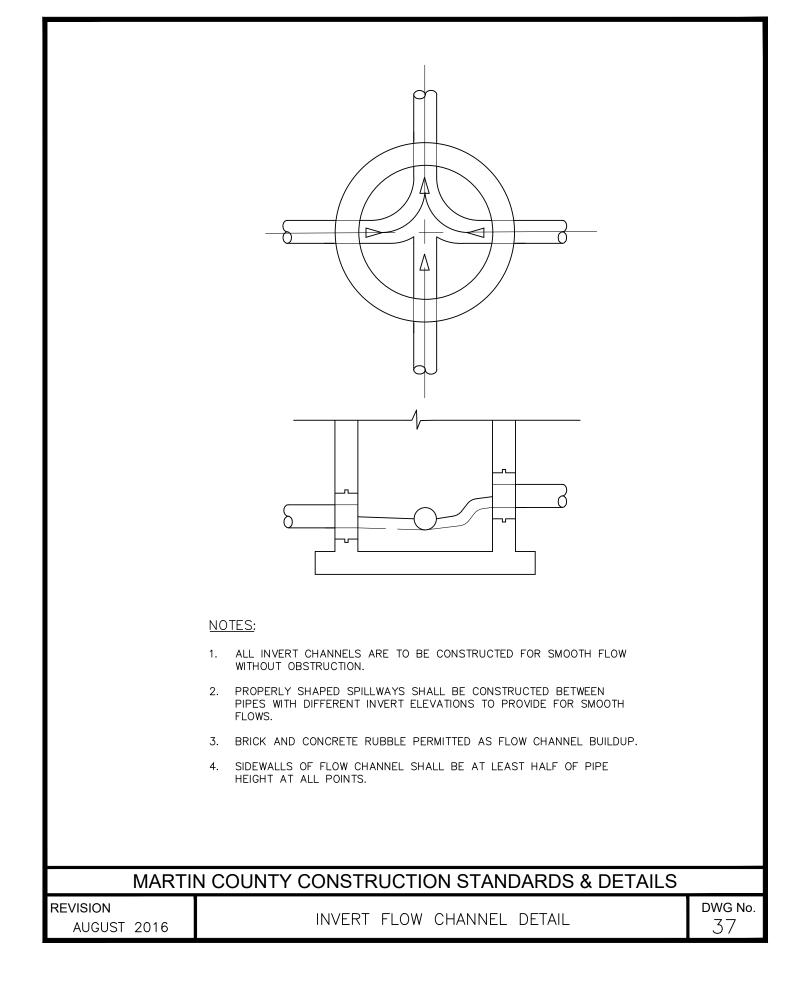






03-27-202

DATE







301 N.W. Flagler Ave Stuart, Florida 34994 Phone: (772) 692-4344 Fax: (772) 692-4341 E-mail: captecinfo@gocaptec.coı

PROJECT No.: HORZ. SCALE: **Engineering Business** No. EB-0007657

DATE: 03-27-2020 DRAWN BY: MDB DESIGNED BY: SPM CHECKED BY: JWC 1329.2 VERT. SCALE:

**REVISIONS** SCALE **VERIFICATION SOLID BAR IS EQUAL** TO ONE INCH ON ORIGINAL DRAWING. ADJUST ALL SCALED **DIMENSIONS** MDB PERMIT PLANS **ACCORDINGLY** 

THE RESERVE AT JENSEN BEACH

MARTIN COUNTY, FLORIDA

SANITARY STANDARD DETAILS 2

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

CADD FILE:

**IDENTIFICATION** JOB No.: **1329.2** 

SHEET

SHEET

SHEET **27** OF **28** 1329.2 NOTES - DETAILS

- THE LOCATION AND SIZE OF ALL EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND ARE 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 VERIFY ALL UTILITIES BY ELECTRONIC METHODS AND BY HAND EXCAVATION IN COORDINATION WITH ALL UTILITY COMPANIES, PRIOR 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. ALL BELL SOUTH, FPL, LOCAL CABLE, AND ALL LOCAL UTILITY COMPANY (CITY, COUNTY, WATER AND SEWER) LOCATIONS SHOWN ARE TAKEN FROM INFORMATION PROVIDED BY THAT UTILITY COMPANY. THESE LOCATIONS HAVE NOT BEEN VERIFIED IN THE FIELD. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR TO EXPOSE ALL CROSSINGS WITH SOUTHERN BELL, CABLES/CATV AND FLORIDA POWER AND LIGHT 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 REPRESENTATIVES PRESENCE DURING CONSTRUCTION IN THE VICINITY OF THEIR FACILITIES. A PROFILE OF THE PRIVATE UTILITY FACILITIES ARE NOT PROVIDED IN THESE DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE PRIVATE UTILITIES AND OBTAINING THE APPROXIMATE LOCATION OF THESE FACILITIES. THIS ITEM SHALL BE COMPLETED IN COMPLIANCE WITH THE GENERAL CONDITIONS OF THE CONSTRUCTION CONTRACT.
- CONTRACTOR SHALL PROTECT ALL EXISTING ABOVE OR UNDERGROUND STRUCTURES, LANDSCAPE FEATURES, TREES AND UTILITIES NOT SHOWN ON THE PLANS TO BE REMOVED BY CONSTRUCTION.
- 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 REQUESTING ATTENDANCE AT THE PRE-CONSTRUCTION MEETING THE SUPERINTENDENT FOR THIS PROJECT SHALL SUBMIT A FORMAL RESUME SHOWING QUALIFICATIONS PRIOR TO THE PRE-CONSTRUCTION MEETING. THIS ITEM SHALL BE COMPLETED IN COMPLIANCE WITH THE GENERAL CONDITIONS OF THE CONSTRUCTION CONTRACT.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE HIS 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 COMPLETE UNDERSTANDING AND RESPONSIBILITIES WITH RESPECT TO THE CONSTRUCTION ACTIVITIES REQUIRED UNDER THE SCOPE OF THIS PROJECT.
- THE "TRENCH SAFETY ACT" SHALL BE INCORPORATED INTO THIS CONTRACT AS ENACTED BY THE LEGISLATURE OF THE STATE OF FLORIDA TO BE IN EFFECT AS OF OCTOBER 1, 1990.
- AS-BUILT RECORD DRAWINGS: UPON COMPLETION OF THE WORK, BUT PRIOR TO SUBMITTAL OF REQUEST FOR FINAL PAYMENT OR FINAL ACCEPTANCE, THE CONTRACTOR OR DEVELOPER'S ENGINEER SHALL OBTAIN AND SUBMIT RECORD INFORMATION CERTIFIED BY A FLORIDA PROFESSIONAL SURVEYOR AND MAPPER PREPARED IN ACCORDANCE WITH MARTIN COUNTY UTILITIES AND SOLID WASTE DEPARTMENT MINIMUM CONSTRUCTION STANDARDS - SECTION 7 -RECORD DRAWINGS. TWO (2) PAPER PRINTS OF THE PLAN SHEETS, PROFILES, DETAILS AND LIFT STATION SHALL BE PROVIDED. THE PRINT SHALL BE SIGNED AND SEALED BY THE FLORIDA PROFESSIONAL SURVEYOR AND MAPPER AND THE FLORIDA PROFESSIONAL ENGINEER RESPONSIBLE FOR CERTIFYING THE PROJECT. ALL SHEETS MUST INCLUDE THE VERTICAL DATUM AND HORIZONTAL DATUM USED IN EASILY READABLE PRINT

THREE (3) ELECTRONIC RECORD DRAWING FILES SHALL ALSO BE PROVIDED AS FOLLOWS: ONE (1) DIGITAL RECORD DRAWING CAD FILE SAVED IN THE ORIGINAL FORMAT AS DESIGNED, BUT BEING AUTOCAD VERSION 2004 OR NEWER. ONE (1) DIGITAL RECORD DRAWING SAVED IN DWF FORMAT AS AN EXACT REPRODUCTION OF THE SIGNED AND SEALED RECORD DRAWING ON PAPER, WITHOUT SIGNATURE OR SEAL WITH A RESOLUTION OF 300 DOTS PER INCH (DPI). ONE (1) DIGITAL RECORD DRAWING SAVED IN PDF FORMAT AS AN EXACT REPRODUCTION OF THE SIGNED AND SEALED RECORD DRAWING ON PAPER. WITHOUT SIGNATURE OR SEAL WITH A RESOLUTION OF 300 DOTS PER INCH (DPI).

ALL RECORD DRAWING INFORMATION SHALL ACCURATELY DEPICT ALL SURVEYED INFORMATION WITH ALL HORIZONTAL VECTOR INFORMATION BEING SHOWN IN THE NORTH AMERICAN DATUM OF 1983 (NAD83) AND IN THE FLORIDA EAST ZONE STATE PLANE COORDINATE SYSTEM OR THE LATEST NGS ADOPTED DATUM USING U.S. SURVEY FEET AS THE UNIT OF MEASUREMENT.

CAD FILES: THE DIGITAL RECORD DRAWING CAD FILE SHALL FOLLOW THESE GENERAL STANDARDS FOR INCLUSION IN THE UTILITY'S GEOGRAPHIC INFORMATION SYSTEM (GIS): ALL RECORD DRAWING PIPING INFORMATION SHALL BE PLACED ON SEPARATE LAYERS BY PIPING TYPE, DIAMETER AND MATERIAL. ALL RECORD DRAWING FIXTURE INFORMATION (FIRE HYDRANTS, VALVES, METERS, REDUCERS, TEES, WYES, CROSSES, CAPS, ETC.) SHALL BE PLACED ON SEPARATE LAYERS BY THE PIPING TYPE THEY ARE ATTACHED TO. ALL PIPING SHALL BE DRAFTED AS POLYLINES; SEPARATED ONLY AT JUNCTIONS OR CHANGES IN PIPE DIAMETER. ALL PIPING POLYLINES SHALL SNAP TO ONE ANOTHER AT EVERY JUNCTION AND CHANGE IN PIPE DIAMETER. A TEMPLATE FILE SHALL BE PROVIDED TO THE UTILITY DEPARTMENT WHICH CLEARLY DEPICTS RECORD DRAWING LAYERS AND BLOCKS TO BE USED IN FINAL RECORD DRAWING SUBMITTALS. ALL RECORD DRAWING CAD FILES SHALL ADHERE TO THE LAYER AND BLOCK STRUCTURE SUBMITTED IN THE TEMPLATE FILE.

- THE CONTRACTOR WILL SUBMIT FOR APPROVAL BY OWNER A PLAN SHOWING THE SCHEDULE OF WORK, INCLUDING A HIGHLIGHTED PLAN SHOWING THE ORDER OF CONSTRUCTION WHICH WILL FACILITATE MAINTAINING EXISTING SERVICES DURING CONSTRUCTION. CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE AND COUNTY RULES AND REGULATIONS GOVERNING THE USE OF STREETS FOR PROTECTION OF THE WORK AND PUBLIC SAFETY. MAINTENANCE OF TRAFFIC SHALL BE PROVIDED BY CONTRACTOR IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION - LATEST EDITION AND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- 10. ALL CONSTRUCTION IS TO BE IN ACCORDANCE WITH FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARDS AND SPECIFICATIONS (2014). THE REQUIREMENTS OF MARTIN COUNTY CODES AND REGULATIONS AND MARTIN COUNTY UTILITIES AND SOLID WASTE DEPARTMENT SPECIFICATIONS AND STANDARDS (AUGUST 2016). IN ADDITION ALL ACTIVITIES ARE TO BE IN ACCORDANCE WITH F.D.P.E. STANDARDS AND ITEMS DESCRIBED IN THE TECHNICAL PROVISIONS OF THE CONSTRUCTION CONTRACT.

#### **GENERAL NOTES (CONT.):**

11. ANY MONUMENT WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF IN DANGER OF DAMAGE. THE CONTRACTOR SHOULD NOTIFY,

**GEODETIC INFORMATION CENTER** ATTN.: CHARLIE NOVICE ATTN.: M/CG - 162 **6001 EXECUTIVE BOULEVARD ROCKVILLE, MARYLAND 20852** TELEPHONE: (301) 443-8319

- 12. BENCH MARK DATA IS NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88).
- 13. SHOP DRAWING SUBMITTAL APPROVALS ARE REQUIRED FOR ALL STRUCTURES AND SHALL BE SUBMITTED TO ENGINEER FOR REVIEW AND APPROVAL PRIOR TO ORDERING. THE ENGINEER REQUIRES FIVE (5) BUSINESS DAYS TO REVIEW SHOP DRAWINGS AFTER RECEIPT. THIS ITEM SHALL BE COMPLETED IN COMPLIANCE WITH THE GENERAL CONDITIONS OF THE CONSTRUCTION
- 14. ALL UNSUITABLE MATERIALS, SUCH AS MUCK, ORGANIC MATERIAL AND OTHER DELETERIOUS MATERIAL AS CLASSIFIED BY AASHTO M 145, FOUND SHALL BE REMOVED DOWN TO ROCK OR SUITABLE MATERIAL, AND REPLACED WITH THE SPECIFIED FILL MATERIAL IN MAXIMUM 12 INCH LIFTS COMPACTED TO NOT LESS THAN 98% MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE IN ACCORDANCE WITH AASHTO T-180. THICKNESS OF LAYERS MAY BE INCREASED, PROVIDED THAT THE EQUIPMENT AND METHODS USED ARE PROVEN BY FIELD DENSITY TESTING AND CAPABLE OF COMPACTING THICK LAYERS TO SPECIFIED DENSITIES.
- 15. ALL AREAS SHALL BE CLEARED AND GRUBBED PRIOR TO CONSTRUCTION. THIS CLEARING AND GRUBBING SHALL CONSIST OF THE COMPLETE REMOVAL AND DISPOSAL OF ALL TREES, BRUSH, STUMPS, GRASS, WEEDS, RUBBISH AND ALL OTHER OBSTRUCTIONS RESTING ON, OR PROTRUDING THROUGH THE SURFACE OF THE EXISTING GROUND TO A DEPTH OF ONE (1) FOOT. ITEMS DESIGNATED TO REMAIN, TO BE RELOCATED, OR TO BE ADJUSTED SHALL BE DESIGNATED ON THE DRAWINGS.
- 16. FILL MATERIAL SHALL BE CLASSIFIED AS A-1, A-3, OR A-2-4 IN ACCORDANCE WITH AASHTO M-145. FILL SHOULD BE FREE FROM DEBRIS; VEGETATION, ORGANIC OR OTHER DELETERIOUS MATTER, AND SHOULD CONSIST OF CLEAN GRANULAR MATERIAL. IT SHOULD CONTAIN NOT MORE THAN 10 PERCENT PASSING THE U.S. STANDARD NUMBER 200 SIEVE, AND HAVE AN ORGANIC CONTENT LESS THAN ONE PERCENT. FILL SHOULD BE PLACED IN APPROXIMATELY LEVEL LIFTS OF LESS THAN 12 INCHES IN UNCOMPACTED THICKNESS, BE MOISTURE CONDITIONED AS NECESSARY, AND UNIFORMLY COMPACTED TO AT LEAST 98 PERCENT RELATIVE COMPACTION AS DETERMINED BY THE MODIFIED PROCTOR PROCEDURE (ASTM D1557). 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. CONTRACTOR TO OVER EXCAVATE ALL DRY DETENTION AREAS TO FULLY REMOVE ANY SOILS THAT MAY LIMIT THE INFILTRATION OF STORM WATER LOCATED WITHIN 24" OF THE HARD PAN LAYER.
- 17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING CERTIFIED MATERIAL TEST RESULTS TO THE ENGINEER OF RECORD PRIOR TO THE RELEASE OF FINAL CERTIFICATION BY THE ENGINEER. TEST RESULTS SHALL INCLUDE, BUT MAY NOT BE LIMITED TO: DENSITIES FOR SUBGRADE AND BASE DENSITIES AT UTILITY CROSSINGS, MANHOLES, INLETS AND STRUCTURES. TEST SHALL INCLUDE ASPHALT GRADATION REPORTS, CONCRETE CYLINDERS, ETC. DENSITY TESTS SHALL BE PERFORMED AT THREE (3) LOCATIONS AROUND AND WITHIN 2' OF ALL STRUCTURES. TEST SHALL BE TAKEN IN THE FIRST FOOT ABOVE THE BOTTOM OF THE STRUCTURE AND THEN EVERY TWO FEET UP TO WITHIN TWO FEET OF THE FINISH GRADE.
- 18. ALL DISTURBED AREAS SHALL BE SODDED UPON COMPLETION OF GRADING TO AVOID EROSION AFTER AS-BUILT GRADE ELEVATIONS ARE APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTION OF ANY EROSION OR SHOALING OF THE WATER QUALITY MANAGEMENT SYSTEM.
- 19. TRENCHES AND EXCAVATIONS SHOULD BE KEPT DRY WHILE WORK IS IN PROGRESS. EXCAVATED MATERIALS, SUCH AS BOULDERS AND LOGS THAT ARE NOT SUITABLE FOR BACKFILL, SHOULD BE REMOVED FROM SITE. THE PIPE BARREL SHALL BE UNIFORMLY SUPPORTED ALONG ITS ENTIRE LENGTH ON UNDISTURBED SOIL OR BEDDING MATERIAL. PROPER BEDDING SHALL BE SUPPLIED IF THE EXISTING MATERIAL INCLUDES ROCK, ORGANIC MATTER OR OTHER SHARP OR UNSTABLE MATERIAL.
- 20. THE CONTRACTOR SHALL CONSTRUCT THE IMPROVEMENTS IN A MANNER SO AS TO MINIMIZE ANY ADVERSE IMPACTS OF THE WORKS ON FISH, WILDLIFE, NATURAL ENVIRONMENTAL VALUES AND WATER QUALITY ON OR OFF-SITE. THE CONTRACTOR SHALL INSTITUTE NECESSARY MEASURES DURING THE CONSTRUCTION PERIOD, INCLUDING FULL COMPACTION OF ANY FILL MATERIAL PLACED AROUND NEWLY INSTALLED STRUCTURES TO REDUCE EROSION, TURBIDITY, NUTRIENT LOADING AND SEDIMENTATION IN THE RECEIVING WATERS. ALL WORK WITHIN THIS PROJECT WILL BE COMPLETED IN STRICT COMPLIANCE WITH THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES).
- 21. ALL EXISTING LINES THAT ARE ABANDONED SHALL BE CUT, PLUGGED AND GROUTED, OR REMOVED AND DISPOSED OF PROPERLY BY THE CONTRACTOR AS REQUIRED BY THE ENGINEER AND OWNER. SINCE EXISTING LINES WITHIN THE PROJECT ARE ASBESTOS CONCRETE PIPE THEY SHALL BE HANDLED BY F.D.E.P. RULES AND REGULATIONS.

JOB SITE IMMEDIATELY AFTER COMPLETION OF CONSTRUCTION OPERATIONS.

4. ALL DISTURBED AREAS WILL BE SODDED UPON COMPLETION FOR STABILIZATION.

**ETC., AFFECTED BY CONSTRUCTION ACTIVITIES.** 

OWNER AND LOCAL REGULATOR

1. THE CONTRACTOR SHALL MAINTAIN THE JOB SITE IN A NEAT CONDITION AT ALL TIMES AND SHALL

2. THE CONTRACTOR SHALL REMOVE ALL EXCESS MATERIALS, DEBRIS, EQUIPMENT, ETC., FROM THE

CONTRACTOR TO PRE-CONSTRUCTION CONDITION OR BETTER PRIOR TO ACCEPTANCE BY THE

3. UNLESS OTHERWISE SPECIFIED OR NOTED; ALL DISTURBED AREAS SHALL BE RESTORED BY

RESTORE/REPAIR ALL DRIVEWAYS, SIDEWALKS, UTILITIES, LANDSCAPING, IRRIGATION SYSTEMS,

#### **EROSION AND SEDIMENT CONTROL / ENVIRONMENTAL PROTECTION**

- 1. THE CONTRACTOR SHALL MAINTAIN A COPY OF THE LATEST LOCAL WATER MANAGEMENT DISTRICT SURFACE WATER PERMIT, COMPLETE WITH ALL CONDITIONS, ATTACHMENTS, EXHIBITS, AND PERMIT MODIFICATIONS IN GOOD CONDITIONS AT THE CONSTRUCTION SITE. THE COMPLETE PERMIT MUST BE AVAILABLE FOR REVIEW UPON REQUEST BY DISTRICT REPRESENTATIVES. THE CONTRACTOR SHALL REVIEW THE COMPLETE PERMIT PRIOR TO COMMENCEMENT OF THE ACTIVITY AUTHORIZED BY THE PERMIT. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A NATIONAL POLLUTANT DISCHARGE ELIMINATION STSTEM (NPDES) PERMIT ALONG WITH AN APPROVED STORMWATER POLLUTION PREVENTION PLAN (SWPPP), AND THESE DOCUMENTS MUST REMAIN ON THE PROJECT SITE AT ALL TIMES. THROUGHOUT THE CONSTRUCTION OF THE PROJECT, THE CONTRACTOR COULD BE REQUIRED TO ENHANCE UPON THE SWPPP PLANS TO COMPLY WITH THE NPDES PERMIT AND THE STATE WATER QUALITY GUIDELINES. THESE ENHANCEMENTS ARE CONSIDERED INCIDENTIAL TO THE COST OF EROSION AND SEDIMENT CONTROL.
- 2. ALL ACTIVITIES SHALL BE IMPLEMENTED AS SET FORTH IN THE PLANS, SPECIFICATIONS, AND PERFORMANCE CRITERIA AS APPROVED BY LOCAL SURFACE WATER PERMIT. ANY DEVIATION FROM THE PERMITTED ACTIVITY AND THE CONDITIONS FOR UNDERTAKING THAT ACTIVITY SHALL BE CONSIDERED A VIOLATION OF THE PERMIT. PRIOR TO ANY WORK, A NOTICE OF PENDING CONSTRUCTION NEEDS TO BE SUBMITTED TO THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT.
- 3. THE LOCAL WATER MANAGEMENT DISTRICT AUTHORIZED STAFF, UPON PROPER IDENTIFICATION, MUST BE GRANTED PERMISSION TO ENTER, INSPECT, AND OBSERVE THE SYSTEM TO INSURE CONFORMITY WITH THE PLANS AND SPECIFICATIONS APPROVED BY THE PERMIT.
- 4. PRIOR TO AND DURING CONSTRUCTION, THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES (BEST MANAGEMENT PRACTICES) REQUIRED TO RETAIN SEDIMENT ON-SITE AND TO PREVENT VIOLATIONS OF STATE WATER QUALITY STANDARDS. ALL PRACTICES MUST 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 ENVIRONMENTAL REGULATIONS 1988), WHICH ARE HEREBY INCORPORATED BY REFERENCE, UNLESS A PROJECT SPECIFIC EROSION AND SEDIMENT CONTROL PLAN IS APPROVED AS PART OF THE SFWMD PERMIT, IN WHICH CASE THE PRACTICES MUST BE IN ACCORDANCE WITH THE PLAN. IF SITE SPECIFIC CONDITIONS REQUIRE ADDITIONAL MEASURES DURING ANY PHASE OF CONSTRUCTION OR OPERATION TO PREVENT EROSION OR CONTROL SEDIMENT, BEYOND THOSE SPECIFIED IN THE EROSION AND SEDIMENT CONTROL PLAN, THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL BEST MANAGEMENT PRACTICES AS NECESSARY, IN ACCORDANCE WITH THE SPECIFICATIONS IN CHAPTER 6 OF THE FLORIDA LAND DEVELOPMENT MANUAL: A GUIDE TO SOUND LAND AND WATER MANAGEMENT (FLORIDA DEPARTMENT OF **ENVIRONMENTAL REGULATION 1988). THE CONTRACTOR SHALL CORRECT ANY EROSION OR** SHOALING THAT CAUSES ADVERSE IMPACTS TO THE WATER RESOURCES.
- 5. STABILIZATION MEASURES UTILIZING SOD OR SEED AND MULCH SHALL BE INITIATED FOR EROSION AND SEDIMENT CONTROL ON DISTURBED AREAS AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN SEVEN (7) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. ALL WORK ON THIS PROJECT WILL BE CONSTRUCTED IN COMPLIANCE WITH THE APPROVED NPDES PERMIT.
- 6. THE STORM WATER MANAGEMENT SYSTEM MUST BE COMPLETE IN ACCORDANCE WITH THE PERMITTED PLANS AND PERMIT CONDITIONS PRIOR TO THE INITIATION OF THE PERMITTED USE OF SITE INFRASTRUCTURE. THE SYSTEM MUST BE COMPLETE IN ACCORDANCE WITH THE PERMITTED PLANS AND PERMIT CONDITIONS PRIOR TO TRANSFER AND RESPONSIBILITY FOR OPERATION AND MAINTENANCE OF THE STORM WATER MANAGEMENT SYSTEM TO A RESPONSIBLE ENTITY. THE OWNER WILL NOT RELEASE FINAL PAYMENTS AND ALLOW REDUCTION OF RETAINAGE UNTIL ALL ITEMS ARE COMPLETED AND ACCEPTED BY THE OWNER.
- 7. NPDES PERMIT MONITORING MUST BE COMPLETED BY CONTRACTOR IN COMPLIANCE WITH THE REQUIREMENTS SET FORTH BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION AND MARTIN COUNTY.

#### **GEOTECHNICAL NOTES**

NEW FILL MATERIALS MUST BE PLACED UNDER ENGINEERING SUPERVISION OF A GEOTECHNICAL ENGINEER. THE FILL SHOULD BE INORGANIC GRANULAR SOILS FREE FROM DELETERIOUS MATERIALS AND APPROVED BY OUR FIRM. THE FILL SHOULD BE PLACED IN LIFTS OF NO GREATER THAN 12 INCHES THICK, AND EACH LIFT SHOULD BE COMPACTED TO 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE MODIFIED COMPACTION TEST (ASTM 01 557). IN RESTRICTED AREAS WHERE A SMALL COMPACTOR MUST BE USED, THE LIFT THICKNESS SHOULD BE REDUCED TO 6 INCHES, AS DIRECTED BY THE INSPECTING GEOTECHNICAL ENGINEER. BACKFILL PLACED ADJACENT TO THE PILE CAPS AND GRADE BEAMS SHOULD BE COMPACTED TO AT LEAST 98 PERCENT OF THE ASTM D-1557 MAXIMUM DRY DENSITY.

BACKFILL BEHIND WALLS SHOULD BE APPROVED SAND FILL AS INDICATED PREVIOUSLY AND SHOULD BE PLACED IN LOOSE LIFTS NOT EXCEEDING 12 INCHES IN THICKNESS AND SHOULD BE COMPACTED TO MINIMUM DRY DENSITY OF BETWEEN 92 PERCENT AND 95 PERCENT OF THE MAXIMUM MODIFIED PROCTOR DRY DENSITY USING SMALL VIBRATORY COMPACTION EQUIPMENT. OVER COMPACTION IN THESE AREAS SHOULD BE AVOIDED. THE WALLS SHOULD BE TEMPORARILY BRACED DURING COMPACTION TO PREVENT OVERSTRESSING OF THE WALLS. PRIOR TO INITIATING COMPACTION OPERATIONS, REPRESENTATIVE SAMPLES OF THE STRUCTURAL FILL MATERIAL TO BE USED AND ACCEPTABLE IN-PLACE SOILS SHOULD BE COLLECTED AND TESTED TO DETERMINE THEIR COMPACTION AND CLASSIFICATION CHARACTERISTICS. THE MAXIMUM DRY DENSITY, OPTIMUM MOISTURE CONTENT, GRADATION AND PLASTICITY CHARACTERISTICS SHOULD BE DETERMINED. THESE TESTS ARE NEEDED FOR COMPACTION QUALITY CONTROL OF THE STRUCTURAL FILL AND EXISTING SOILS, AND TO DETERMINE IF THE FILL MATERIAL IS ACCEPTABLE.

#### **EXCAVATION REQUIREMENTS**

EXCAVATIONS OF FIVE FEET OR MORE IN DEPTH SHOULD BE SLOPED OR SHORED IN ACCORDANCE WITH OSHA AND STATE OF FLORIDA REQUIREMENTS. MATERIALS REMOVED FROM ANY EXCAVATION SHOULD NOT BE STOCKPILED IMMEDIATELY ADJACENT TO THE OPEN EXCAVATION AS THIS LOAD MAY CAUSE A SUDDEN COLLAPSE OF THE SIDEWALLS.

IN OCTOBER OF 1989, AS PUBLISHED IN THE FEDERAL REGISTRAR, VOLUME 54, NO. 209, THE UNITED STATES DEPARTMENT OF LABOR, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AMENDED ITS: "CONSTRUCTION STANDARDS FOR EXCAVATIONS, 29CRF PART 1926, SUBPART P". IT IS MANDATED BY THIS FEDERAL REGULATION THAT ALL EXCAVATIONS, WHETHER THEY BE UTILITY TRENCHES, BASEMENT EXCAVATION OR FOOTING EXCAVATIONS, BE CONSTRUCTED IN ACCORDANCE WITH THE NEW OSHA GUIDELINES. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DESIGNING AND CONSTRUCTING STABLE, TEMPORARY EXCAVATIONS AND SHOULD SHORE, SLOPE, OR BENCH THE SIDES OF THE EXCAVATIONS AS REQUIRED TO MAINTAIN STABILITY OF BOTH THE EXCAVATION SIDES AND BOTTOM.

IF CONDITIONS ARE ENCOUNTERED WHICH ARE NOT CONSISTENT WITH THE 'FINDINGS PRESENTED IN THIS REPORT, OR IF PROPOSED CONSTRUCTION IS MOVED FROM THE LOCATION STUDIED, THIS OFFICE SHALL BE NOTIFIED IMMEDIATELY SO THAT THE CONDITION OR CHANGE CAN BE EVALUATED AND APPROPRIATE ACTION TAKEN.

#### PROPOSED POOL

WE CONSIDER THE EXISTING SOILS TO BE SUITABLE FOR SUPPORT OF THE PROPOSED POOL USING CONVENTIONAL CONSTRUCTION METHODS. THE CONTRACTOR SHOULD TAKE MEASURES TO ENSURE THAT THE SIDE SLOPES ARE PROTECTED, AND WILL NOT AFFECT THE EXISTING STRUCTURE. ANY BACKFILL PLACED WITHIN THE ZONE OF INFLUENCE OF FOUNDATIONS (2 HORIZONTAL TO 1 VERTICAL) SHOULD BE COMPACTED TO A MINIMUM OF 95 PERCENT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM

BASED ON THE LEVEL OF THE GROUNDWATER LEVEL AT THE TIME OF THE FIELD WORK, (NINE TO NINE AND A HALF FEET BELOW THE EXISTING GROUND SURFACE) TEMPORARY DEWATERING MAY BE NEEDED IN ORDER TO CONSTRUCT THE POOL. THE POOL CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE BEST METHODS OF DEWATERING FOR THE PROJECT.

THE POOL DECK MAY BE CONSTRUCTED ON COMPACTED EXISTING SOILS OR APPROVED FILL. THE SOILS SHOULD BE COMPACTED TO A MINIMUM OF 95 PERCENT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY TO A DEPTH OF 12 INCHES BELOW THE COMPACTED SURFACE.

#### PAVEMENT AREAS (UNLESS OTHERWISE MODIFIED BY MARTIN COUNTY STANDARDS)

PAVEMENT AREAS SHOULD BE COMPACTED TO A MINIMUM OF 98 PERCENT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY TO A DEPTH OF AT LEAST 12 INCHES BELOW THE BOTTOM OF THE SUBGRADE LEVEL. WE RECOMMEND THAT STABILIZED SUBGRADE HAVING A MINIMUM LIMEROCK BEARING RATIO (LBR) OF 40 IS PLACED TO A DEPTH OF APPROXIMATELY ONE FOOT T BELOW THE BASE COURSE. THE BASE COURSE SHOULD BE AT LEAST 6 INCHES IN PARKING AREAS AND 8 INCHES IN ROADWAYS. AND SHOULD HAVE A MINIMUM LBR OF 100. THE PROJECT CIVIL ENGINEER SHOULD PROVIDE FINAL PAVEMENT RECOMMENDATIONS FOR THE PLANNED CONSTRUCTION.

WHERE CONCRETE PAVEMENT IS USED, A MINIMUM CONCRETE PAVEMENT THICKNESS OF 6 INCHES IS RECOMMENDED FOR THE STANDARD AND HEAVY DUTY PAVEMENT DESIGN. THE MINIMUM THICKNESS IS BASED UPON CONCRETE WITH A COMPRESSIVE STRENGTH OF 3,500 PSI, AND A MODULUS OF RUPTURE OF 550 PSI. THE PAVEMENT SECTION SHOULD BEAR ON PROPERLY COMPACTED SUBGRADE AS RECOMMENDED IN THIS REPORT.

> **ENVIRONMENTAL:** GFA INTERNATIONAL, INC. 607 NW COMMODITY COVE PORT ST. LUCIE, FLORIDA 34986 (772) 924-3575

**GEOTECHNICAL FIRM:** ECS FLORIDA, LLC 2000 AVENUE P SUITE 3 WEST PALM BEACH, FLORIDA 33404 (561) 840-3667

PLANNER / LANDSCAPE ARCHITECT: LUCIDO AND ASSOCIATES, INC. 701 SE OCEAN BOULEVARD STUART, FLORIDA 34994 (772) 220-2100

10 DAYS PRIOR TO CROSSING EXISTING CONFLICTS, THE CONTRACTOR WILL POTHOLE THE LOCATION OF ALL EXISTING UTILITIES TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATIONS. NO POTHOLES IN PAVEMENT AREA WILL BE ALLOWED.

HIS DOCUMENT. TOGETHER WITH THE CONCEPTS AND DESIGNS PRESENTED HEREIN. AS AN INSTRUMENT OF SERVICE. IS INTENDED ONLY FOR THE SPECIF Civil Engineering Professionals

301 N.W. Flagler Ave Stuart, Florida 34994 Phone: (772) 692-4344 Fax: (772) 692-4341 E-mail: captecinfo@gocaptec.co

> Engineering Business No. EB-0007657

DATE: 03-27-2020 DRAWN BY: MDB DESIGNED BY: SPM CHECKED BY: JWC 1329.2 PROJECT No.: HORZ. SCALE: VERT. SCALE:

SCALE **VERIFICATION SOLID BAR IS EQUAL** TO ONE INCH ON ORIGINAL DRAWING, ADJUST ALL SCALED DIMENSIONS **ACCORDINGLY** 

**CLEAN-UP:** 

**REVISIONS** MDB PERMIT PLANS 11-15-19 **DESCRIPTION** DATE

THE RESERVE AT JENSEN BEACH

MARTIN COUNTY, FLORIDA

**NOTES** 

Joseph W. Capra

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

SHEET

1329.2 NOTES - DETAILS

SHEET **28** OF **28** 

SHEET

**IDENTIFICATION** 

JOB No.: **1329.2** 

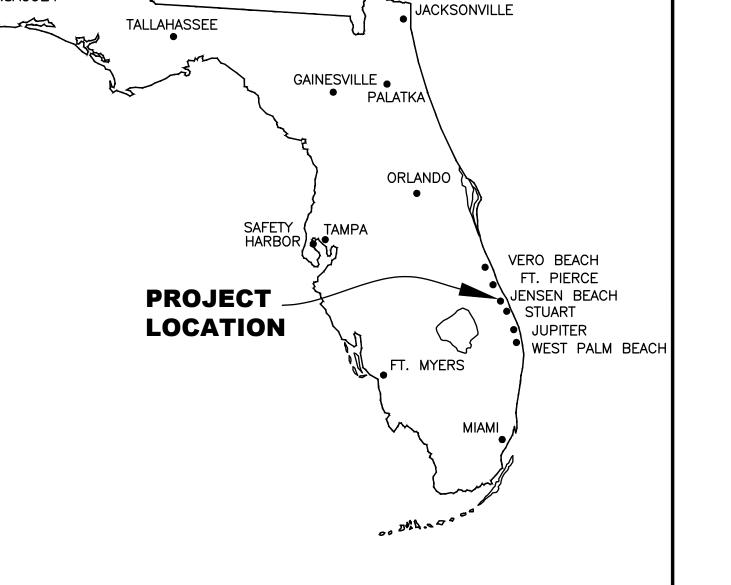
## **BOARD OF COUNTY COMMISSIONERS:**

DOUG SMITH
STACEY HETHERINGTON
DISTRICT 2
HAROLD JENKINS
DISTRICT 3
SARAH HEARD
DISTRICT 4
EDWARD CIAMPI
DISTRICT 5

# Construction Plans and Specifications Of

# NE SAVANNAH ROAD AT NE COY SENDA ROUNDABOUT

Lying In Section 27, Township 37 South, Range 41 East Martin County, Florida



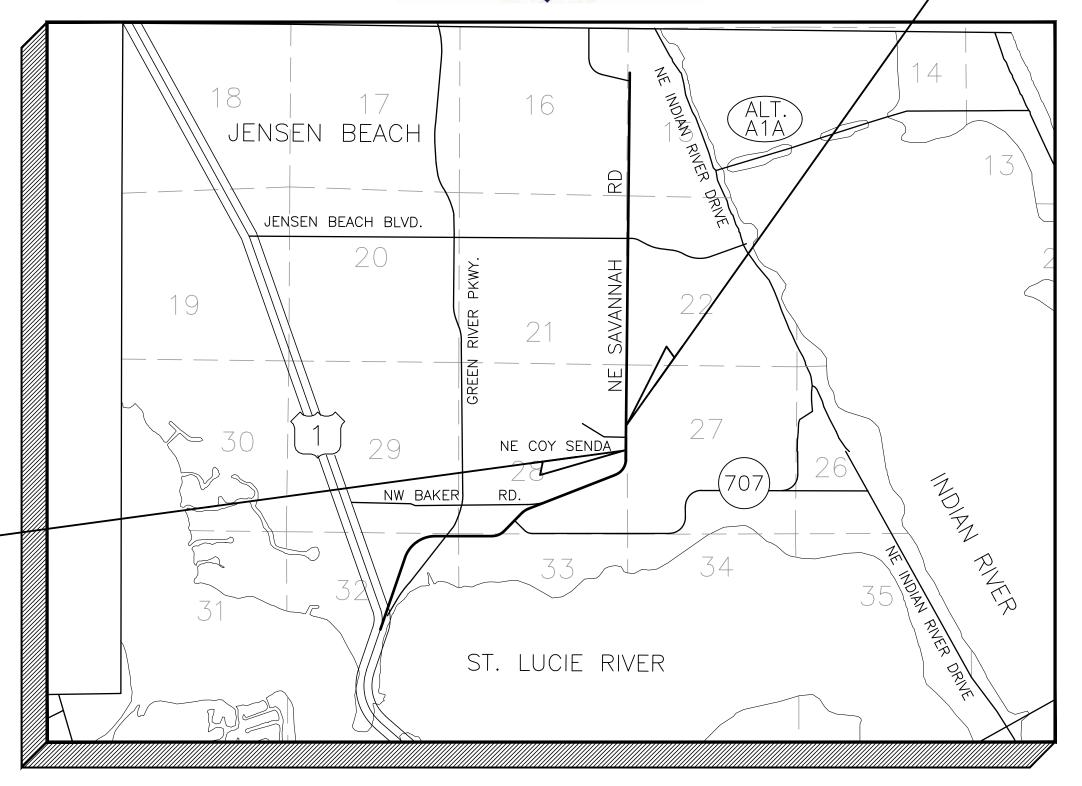
## SHEET INDEX

#### NUMBER - TITLE

- 1 COVER
- 2 SUMMARY OF PAY ITEMS
- 3 GENERAL NOTES
- 4 TYPICAL SECTIONS
- 5 MARTIN COUNTY DETAILS
- 6 PROJECT CONTROL SHEET
- 7 INTERSECTION DETAILS
- 8 EROSION AND SEDIMENT CONTROL
- 9 DEMOLITION PLAN
- 10 PAVING, GRADING AND DRAINAGE
- 11 PROFILES
- 12 CROSS SECTIONS
- 13 CROSS SECTIONS
- 14 UTILITY ADJUSTMENTS
- 15 PAVEMENT MARKING AND SIGNAGE
- 16 MAINTENANCE OF TRAFFIC
- LA-1- LA-3 LANDSCAPE PLANS
- E0.1- E1.2 ELECTRICAL / LIGHTING PLANS

BEGIN PROJECT
AT SAVANNAH RD.

□ SURVEY STA 53+41



## LOCATION MAP

NOT TO SCALE

LENGTH OF PROJECT					
	LINEAR FEET	MILES			
ROADWAY IMPROVEMENTS	676	0.13			
NET LENGTH OF PROJECT	676	0.13			
GROSS LENGTH OF PROJECT	676	0.13			

#### GOVERNING SPECIFICATIONS:

**END PROJECT** 

AT SAVANNAH RD.

₽ *SURVEY STA. 60+17* 

PENSACOLA

- FDOT STANDARD PLANS FOR ROAD & BRIDGE CONSTRUCTION, FY2019-20.
- -FDOT STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION, 2019 EDITION.
- -THE MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTUCTION, AND MAINTENANCE FOR STREETS AND HIGHWAYS (FLORIDA GREENBOOK), 2016 EDITION.
- -THE FEDERAL HIGHWAY ADMINISTRATION (FHWA) MANUAL ON TRAFFIC CONTROL DEVICES (M.U.T.C.D.), 2009 EDITION.
- -THE MARTIN COUNTY PUBLIC WORKS STANDARD DETAILS FOR ROAD AND SITE CONSTRUCTION AND PUBLIC FACILITIES, 12/03/2020 EDITION.

THIS DOCUMENT MAY BE REPRODUCED UPON REQUEST IN AN ALTERNATIVE FORMAT BY CONTACTING THE COUNTY ADA COORDINATOR (772) 320-3131, THE COUNTY ADMINISTRATION OFFICE (772) 288-5400, FLORIDA RELAY 711, OR BY COMPLETING OUR ACCESSIBILITY FEEDBACK FORM AT WWW.MARTIN.FL.US/ACCESSIBILITY-FEEDBACK.



	REVISIONS		
01	PERMIT PLANS	3-27-2020	MDB
	DESCRIPTION	DATE	APPR

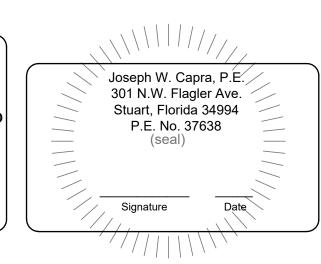


Civil Engineering
Professionals

ing Professionals
301 N.W. Flagler Avenue
Stuart, Florida 34994
Phone: (772) 692-4344
Fax: (772) 692-4341



MARTIN COUNTY
ENGINEERING
2401 SE MONTEREY ROAD
STUART, FLORIDA 34996
PHONE: (772) 288-5927
FAX: (772) 288-5955
www. martin.fl.us



P:\1300\1329.2 - Reserve at Jensen Beach\Dwg\1329.2 ROUNDABOUT COVER MARTIN.dwg, 3/27/2020 2:02:27 P