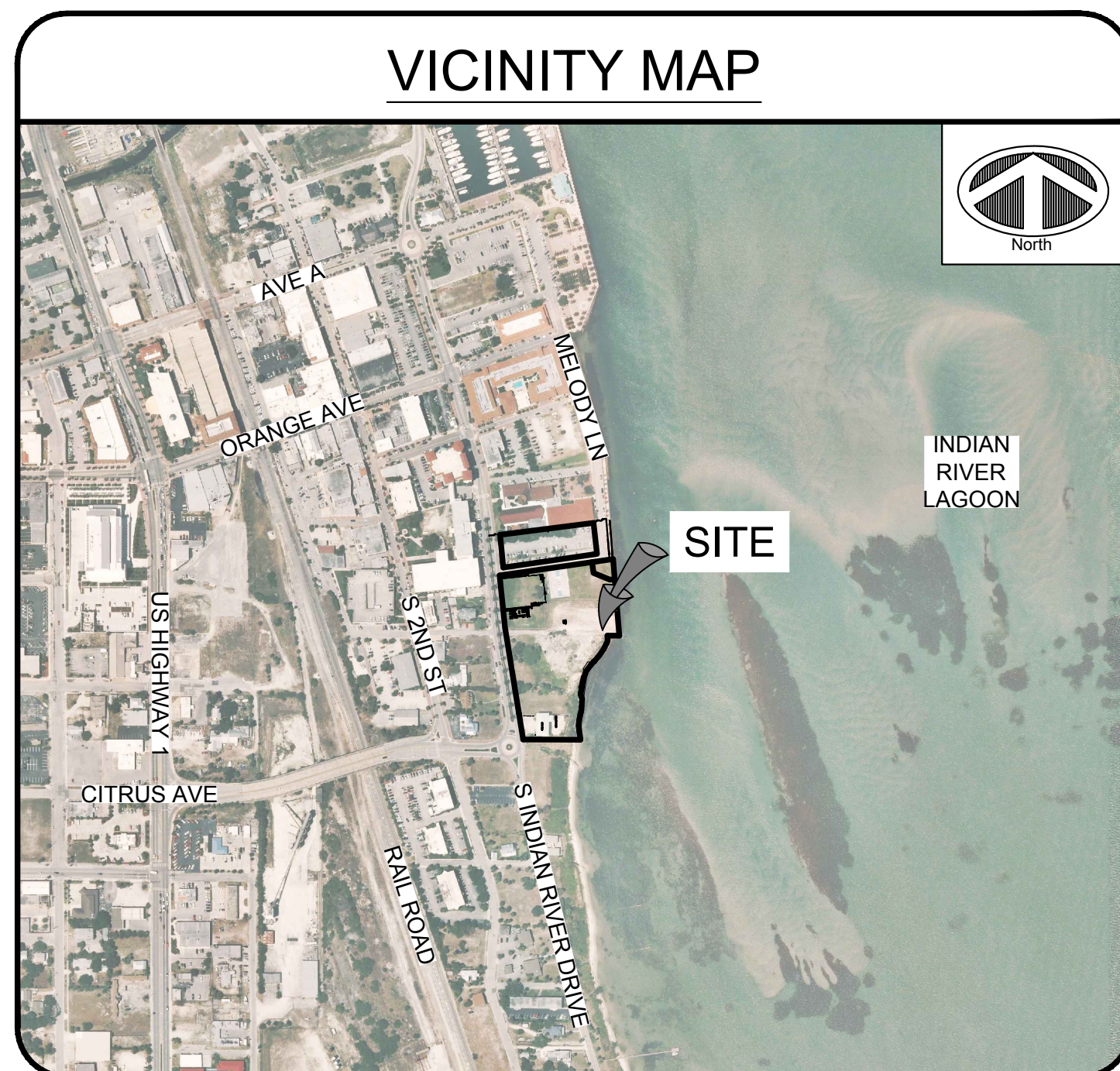
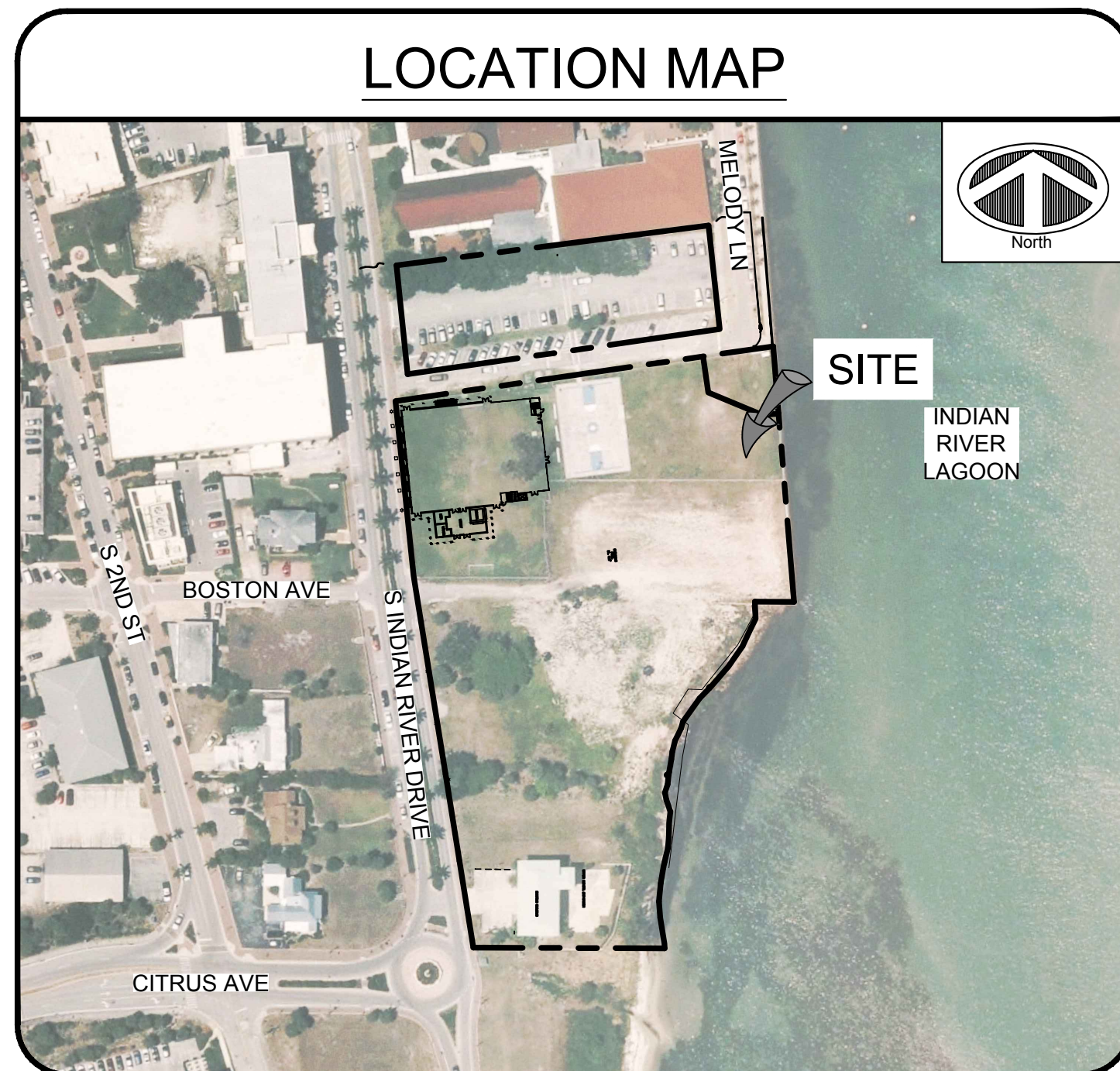


SITE PLAN FOR ST. ANDREW'S EPISCOPAL ACADEMY

SECTION 10, TOWNSHIP 35 SOUTH, RANGE 40 EAST
CITY OF FORT PIERCE FLORIDA



LEGAL DESCRIPTION

PARCEL 1:
ALL THAT CERTAIN LAND LYING EAST OF THE EXISTING PAVEMENT OF INDIAN RIVER DRIVE AND BOUNDED ON THE NORTH BY THE NORTH BOUNDARY LINE OF LOT 2 OF BLOCK A OF W.F. RICHARDS AND JAMES ANDREW RESUBDIVISION OF LOTS 3, 4, 5 AND 6, EAST OF FLORIDA EAST COAST RAILWAY OF TYLERS SUBDIVISION OF LOT 4 IN SECTION 10, TOWNSHIP 35 SOUTH, RANGE 40 EAST BEING ANDREW'S AND RICHARDS' ADDITION TO FORT PIERCE ACCORDING TO PLAT RECORDED IN PLAT BOOK 1, PAGE 191 OF THE PUBLIC RECORDS OF ST. LUCIE COUNTY, FLORIDA, PROJECTED TO THE INDIAN RIVER AND BOUNDED ON THE EAST BY THE WEST BANK OF THE INDIAN RIVER; BOUNDED ON THE SOUTH BY THE SOUTH BOUNDARY OF SAID LOT 2, PROJECTED TO THE INDIAN RIVER, TOGETHER WITH ALL RIPARIAN RIGHTS, ALL IN ACCORDANCE WITH THE SURVEY OF SAID LAND MADE BY ALTON A. REGISTER, C.E., AND DATED OCTOBER 14, 1956, TOGETHER WITH PARCEL MORE PARTICULARLY DESCRIBED IN DEED BOOK 161, PAGE 135, ST. LUCIE COUNTY PUBLIC RECORDS.

PARCEL 2:
BEING ALL THAT PART LYING EAST OF SOUTH INDIAN RIVER DRIVE OF LOT 4, BLOCK A, OF RICHARDS AND ANDREW'S RESUBDIVISION OF LOTS 3, 4, 5 AND 6 (EAST OF F.E.C. RAILWAY) OF TYLERS SUBDIVISION OF LOT 4, SECTION 10, TOWNSHIP 35 SOUTH, RANGE 40 EAST, INCLUDING ALL RIPARIAN RIGHTS AND LITTORAL RIGHTS APPURTENANT AND BELONGING THERETO, ALL LYING AND BEING IN ST. LUCIE COUNTY, FLORIDA.

AND
BEGIN AT A POINT WHERE THE SOUTH LINE OF MARY ANN SUBDIVISION, AS PER PLAT BOOK 7, PAGE 37, BISECTS THE EAST RIGHT OF WAY LINE OF SOUTH INDIAN RIVER DRIVE (NOW KNOWN AS ST. ANDREW'S LANE), RUN THENCE EASTERLY, ALONG SAID SOUTH LINE OF MARY ANN SUBDIVISION, A DISTANCE OF APPROXIMATELY 390.18 FEET, MORE OR LESS TO A POINT OF THE WESTERLY EDGE OF THE INDIAN RIVER, RUN THENCE SOUTHERLY ALONG SAID WESTERLY EDGE OF THE INDIAN RIVER, A DISTANCE OF APPROXIMATELY 26.00 FEET, MORE OR LESS, TO A POINT ON THE NORTH LINE OF LOT 1 EXTENDED OF RICHARDS AND ANDREW'S SUBDIVISION, AS PER PLAT BOOK 1, PAGE 191, RUN THENCE WEST ON THE NORTH LINE OF SAID LOT 1, A DISTANCE OF APPROXIMATELY 376.04 FEET, MORE OR LESS TO A POINT ON THE EAST RIGHT OF WAY LINE OF ST. ANDREW'S LANE, RUN THENCE NORTHERLY ALONG SAID EAST RIGHT OF WAY LINE A DISTANCE OF APPROXIMATELY 23.34 FEET, TO THE POINT OF BEGINNING, INCLUDING ALL RIPARIAN RIGHTS AND LITTORAL RIGHTS APPURTENANT AND BELONGING THERETO, ALL LYING AND BEING IN ST. LUCIE COUNTY, FLORIDA.

LESS
BEING ON THE NORTH 20 FEET OF THE WEST 150 FEET OF THAT PART OF LOT ONE, LYING EAST OF SOUTH INDIAN RIVER DRIVE, WHICH SAID LOT IS PART OF BLOCK A, OF RICHARDS AND ANDREW'S RESUBDIVISION OF LOTS 3, 4, 5 AND 6, (EAST OF F.E.C. RAILWAY) OF TYLERS SUBDIVISION OF LOT 4, SECTION 10, TOWNSHIP 35 SOUTH, RANGE 40 EAST ACCORDING TO SURVEY MAP MADE BY J.O. FRIES, COUNTY SURVEYORS OF BREVARD COUNTY AND RECORDS IN PLAT BOOK 1, PAGE 191 OF THE RECORDS OF ST. LUCIE COUNTY, FLORIDA, SAID MAP SHOWING RICHARDS AND ANDREW'S ADDITION TO FORT PIERCE, WHICH WOULD BE MORE PARTICULARLY DESCRIBED AS FOLLOWS:
BEGINNING AT A POINT ON THE EAST SIDE OF SOUTH INDIAN RIVER DRIVE (WHICH INCLUDES ST. ANDREW'S LANE) WHERE IT INTERSECTS WITH THE SOUTH BOUNDARY OF MARY ANN SUBDIVISION, RUN THENCE EASTERLY ALONG SAID SOUTH LINE OF MARY ANN SUBDIVISION, A DISTANCE OF 160 FEET TO A POINT, THENCE RUN SOUTH AT A RIGHT ANGLE TO THE SAID SOUTH LINE OF MARY ANN SUBDIVISION, A DISTANCE OF 20 FEET TO A POINT, THENCE RUN WEST, PARALLEL WITH THE SOUTH LINE OF SAID MARY ANN SUBDIVISION, A DISTANCE OF APPROXIMATELY 160 FEET TO A POINT ON THE WEST SIDE OF SOUTH INDIAN RIVER DRIVE, THENCE RUN NORTHERLY ALONG THE EAST LINE OF SOUTH INDIAN RIVER DRIVE, A DISTANCE OF APPROXIMATELY 20 FEET TO THE POINT OF BEGINNING.

PARCEL 3:
THE SOUTH 100 FEET OF MARY ANN SUBDIVISION, PLAT BOOK 7, PAGE 37, ST. LUCIE COUNTY, FLORIDA, EXCEPT THAT PART THEREOF DEEDED TO SUNBIRD HOMES IN DEED BOOK 130, PAGE 347, ST. LUCIE COUNTY, FLORIDA, AS FOLLOWS: FOR POINT OF BEGINNING A CONCRETE MONUMENT IN SOUTHWEST CORNER OF MARY ANN SUBDIVISION 140.78 FEET TO A STAKE, THENCE WITH A BACK ANGLE OF 81°25' TO THE RIGHT, A DISTANCE OF 188.73 FEET TO THE SOUTH SIDE OF PROPOSED STREET, THENCE RUN WESTERLY ALONG SOUTH SIDE PROPOSED STREET 140.47 FEET TO A PIPE ON EAST SIDE OF INDIAN RIVER DRIVE, THENCE SOUTHERLY ALONG EAST SIDE OF INDIAN RIVER DRIVE 179.22 FEET TO A POINT OF BEGINNING.

AND
BEGINNING AT A PIPE MARKING THE SOUTHEAST CORNER OF LANDS OF EVA L. WHITEMAN AS DESCRIBED IN DEED BOOK 235, PAGE 404, ST. LUCIE COUNTY, FLORIDA, PUBLIC RECORDS, RUN NORTHWESTERLY ALONG EAST LINE OF SAID WHITEMAN LANDS 79.69 FEET TO THE NORTH EDGE OF EXISTING CONCRETE WALK, THENCE WESTERLY ALONG THE NORTH EDGE OF SAID CONCRETE WALK 5.3 FEET, THENCE SOUTHERLY ALONG THE WEST EDGE OF SAID CONCRETE WALK 41 FEET TO THE SOUTHWEST CORNER THEREOF, THENCE SOUTHEASTERLY PARALLEL TO THE AFORESAID EAST LINE OF WHITEMAN LANDS, RUN 38.6 FEET, MORE OR LESS, TO THE SOUTH LINE OF SAID WHITEMAN LANDS, THENCE EASTERLY, ALONG THE SOUTH LINE OF SAID WHITEMAN LANDS 11.8 FEET TO THE POINT OF BEGINNING, SAID LAND LYING AND BEING IN ST. LUCIE COUNTY, FLORIDA.

PARCEL 4:
POINT OF BEGINNING IS A CONCRETE MONUMENT IN THE SOUTHWEST CORNER OF MARY ANN SUBDIVISION, FROM SAID POINT OF BEGINNING RUN EASTERLY ALONG THE SOUTH LINE OF MARY ANN SUBDIVISION A DISTANCE OF 148.78 FEET TO A STAKE, THENCE WITH A BACK ANGLE OF 81°25' TO THE RIGHT A DISTANCE OF 188.73 FEET TO A STAKE ON THE SOUTH SIDE OF A PROPOSED STREET, THENCE WESTERLY ALONG THE SOUTH SIDE OF SAID STREET A DISTANCE OF 140.47 FEET TO A ONE-HALF INCH GALVANIZED IRON PIPE ON THE EAST SIDE OF INDIAN RIVER DRIVE, THENCE SOUTHERLY ALONG THE EAST SIDE OF INDIAN RIVER DRIVE A DISTANCE OF 179.22 FEET TO POINT OF BEGINNING, MARY ANN SUBDIVISION MENTIONED IS ACCORDING TO THE PLAT THEREOF ON FILE IN PLAT BOOK 7, PAGE 37, OF THE PUBLIC RECORDS OF ST. LUCIE COUNTY, FLORIDA.

LESS AND EXCEPTING THEREFROM THAT PORTION CONVEYED BY EVA L. WHITEMAN TO MILFORD S. PURCELL AND IDA COPLAN PURCELO BY DEED DATED OCTOBER 5, 1967, RECORDED IN O.R. BOOK 168, PAGE 2210, OF THE PUBLIC RECORDS OF ST. LUCIE COUNTY, FLORIDA.

PARCEL 5:
MARY ANN SUBDIVISION, FROM THE SOUTHWEST CORNER OF SAID SUBDIVISION, RUN EAST 148.78 FEET, THENCE WITH BACK ANGLE OF 81 DEGREES 25 MINUTES, RUN NORTHERLY TO A POINT 100 FEET DUE NORTH OF THE SOUTH LINE OF SAID MARY ANN SUBDIVISION FOR A POINT OF BEGINNING, THENCE CONTINUE NORTHERLY TO THE SOUTH LINE OF A 25 FOOT STREET, THENCE NORTHEASTERLY ON SAID RIGHT OF WAY LINE TO THE RIVER, THENCE SOUTHERLY TO A POINT 100 FEET DUE NORTH OF THE SOUTH LINE OF SAID MARY ANN SUBDIVISION, THENCE WEST PARALLEL TO THE SOUTH LINE OF SAID MARY ANN SUBDIVISION TO THE POINT OF BEGINNING.

ALL AS IN OFFICIAL RECORD BOOK 526-578 OF THE PUBLIC RECORDS OF ST. LUCIE COUNTY, FLORIDA.

MARY ANN SUBDIVISION MENTIONED IS ACCORDING TO THE PLAT THEREOF ON FILE IN PLAT BOOK 7, PAGE 37, OF THE PUBLIC RECORDS OF ST. LUCIE COUNTY, FLORIDA.

PARCEL 6:
ST. LUCIE COUNTY RIVERSIDE PARK AS RECORDED IN PLAT BOOK 3, PAGE 3 OF THE PUBLIC RECORDS OF ST. LUCIE COUNTY, FLORIDA, ALL LESS THAT LAND CONVEYED TO EPISCOPAL CHURCH.

PARCEL 7:
LOT 3, BLOCK A, OF W.F. RICHARDS AND JAMES ANDREW'S RESUBDIVISION OF LOTS 3, 4, 5 AND 6 EAST OF RAILWAY OF TYLERS' SUBDIVISION OF LOT 4, SECTION 10, TOWNSHIP 35 SOUTH, RANGE 40 EAST, BEING ANDREW'S AND RICHARDS' ADDITION TO FORT PIERCE, ACCORDING TO THE PLAT IN PLAT BOOK 1, PAGE 191, PUBLIC RECORDS OF ST. LUCIE COUNTY, FLORIDA, AND THAT PARCEL CONSISTING OF ALL PROPERTY LYING EAST OF INDIAN RIVER DRIVE, (STATE ROAD 707) TO THE INDIAN RIVER SITUATED BETWEEN STRAIGHT LINE EXTENSIONS OF THE ABOVE DESCRIBED PROPERTY TOGETHER WITH ALL RIPARIAN RIGHTS APPURTENANT THERETO, AS RECORDED IN OFFICIAL RECORD BOOK 2931, PAGE 1323, LESS AND EXCEPT THEREFROM ALL THAT PART LYING WEST OF INDIAN RIVER DRIVE.

PARCEL 8:
THAT PORTION OF LOT 4, BLOCK A, ANDREW'S AND RICHARDS' ADDITION TO FT. PIERCE, AS RECORDED IN PLAT BOOK 1, PAGE 191 OF THE PUBLIC RECORDS OF ST. LUCIE COUNTY, FLORIDA, LYING EAST OF INDIAN RIVER DRIVE WITH RIPARIAN RIGHTS, OFFICIAL RECORDS BOOK 320, PAGE 2258.

GENERAL NOTES

1. SUBMITTALS
 - A. PRODUCT DATA AND SHOP DRAWINGS
 1. FOR ALL SITE WORK CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT PRODUCT DATA IN THE FORM OF MANUFACTURERS' CUT SHEETS AND CATALOG DATA FOR ALL PRODUCTS, MATERIAL AND EQUIPMENT CLEARLY INDICATING THE SPECIFIC PART OR PRODUCT CATALOG NUMBER(S) FOR APPROVAL.
 2. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL PRODUCTS, MATERIALS AND EQUIPMENT REQUIRED TO BE FABRICATED, OR WHEN STANDARD PUBLISHED PRODUCT DATA IS NOT SUITABLE FOR USE.
 3. SUBMIT 6 COPIES OF REQUESTED INFORMATION, NEATLY BOUND AND INDEXED PER CATEGORY FOR THE FOLLOWING:
 - A. UTILITIES: ALL PIPE, FITTINGS, VALVES, OTHER MISCELLANEOUS APPURTENANCES, CONTROLS, PUMP STATION EQUIPMENT, COMPONENTS AND STRUCTURES, AND ALL OTHER UTILITY SYSTEM PRODUCTS, MATERIALS AND COMPONENTS AND SIMILAR CONTROLS.
 - B. DRAINAGE: ALL PIPE, FITTINGS, AND COMPONENTS THEREOF, STRUCTURES, FRAMES, GRATES, LIDS, GASKETS, FASTENERS, COUPLINGS AND SIMILAR, AND ALL OTHER DRAINAGE SYSTEM PRODUCTS, MATERIALS, AND COMPONENTS AND SIMILAR CONTROLS.
 - C. PAVING AND GRADING: FDOT CERTIFICATIONS AND LAB ANALYSIS/RESULTS FOR PAVEMENT, BASE, SUBGRADE, AND FILL MATERIALS, INCLUDE EVIDENCE (CERTIFICATIONS) THAT THE MATERIALS PROPOSED TO BE USED MEET OR EXCEED FDOT SPECIFICATIONS AND THE CONTRACT DOCUMENTS.
 - D. SIGNING AND PAVEMENT MARKING: SIGN AND PAVEMENT MARKING PRODUCTS AND MATERIALS, AND EVIDENCE THAT THE PRODUCTS AND MATERIALS PROPOSED TO BE USED MEET OR EXCEED REQUIREMENTS SPECIFIED IN THE CONTRACT DOCUMENTS, LOCAL ENGINEERING DEPARTMENT, MUTCO AND FDOT SPECIFICATIONS.
 - E. IRRIGATION: ALL PIPE, FITTINGS, VALVES, OTHER MISCELLANEOUS APPURTENANCES, CONTROLS, PUMP STATION EQUIPMENT, COMPONENTS AND STRUCTURES, AND ALL OTHER UTILITY SYSTEM PRODUCTS, MATERIALS AND COMPONENTS AND SIMILAR CONTROLS, WELLS, AND/OR OTHER IRRIGATION SOURCES. THE CONTRACTOR SHALL SUBMIT AN IRRIGATION COORDINATION DRAWING, INDICATING CONTRACTOR'S PROPOSED LOCATION OF MAIN LINES, SECONDARY LINES, HEAD LOCATIONS, WELL, PUMP CONTROL PANEL, SENSORS, CONTROL VALVE AND VALVE LOCATIONS. THIS DRAWING SHOULD CLEARLY DEPICT ADJUSTMENTS OR CHANGES THE CONTRACTOR PROPOSES. THE DRAWINGS SHALL INDICATE ALL PROPOSED SUBSTITUTIONS OF SIZE, MATERIAL, AND/OR MANUFACTURER.
 2. ALLOW TWO WEEKS FOR THE ENGINEER TO COMPLETE REVIEW OF PRODUCT DATA AND SHOP DRAWINGS. ENGINEER WILL NOT BE RESPONSIBLE FOR PROJECT DELAYS RELATED TO DELIVERY AND TRANSMISSION OF THE DOCUMENTS ONCE INFORMATION HAS LEFT ENGINEER'S OFFICE. ITEMS REQUIRING A LONG LEAD TIME SHOULD BE SUBMITTED AS SOON AS POSSIBLE.
 3. THE CONTRACTOR SHALL PROVIDE A STAMP INDICATING ITS REVIEW AND APPROVAL, INITIALED OR SIGNED, CERTIFYING TO REVIEW OF SUBMITTAL, VERIFICATION OF PRODUCTS, FIELD MEASUREMENTS AND FIELD CONSTRUCTION CRITERIA, AND COORDINATION OF THE INFORMATION WITH THE SUBMITTAL WITH REQUIREMENTS OF THE WORK AND OF CONTRACT DOCUMENTS, INCLUDING PLANS AND SPECIFICATIONS OF OTHER DESIGN PROFESSIONALS (I.E., ARCHITECT, MECHANICAL, ELECTRICAL, AND STRUCTURAL ENGINEERS).
2. TESTING
 1. WATER: PRESSURE (MAIN AND TAPS), BACTERIOLOGICAL, BACKFILL DENSITIES, BACKFLOW PREVENTOR TESTS AND CERTIFICATION; AND AS PER PROJECT SPECIFICATIONS, LOCAL UTILITIES DEPARTMENT, AND FEET REQUIREMENTS.
 2. SEWER, EXFIL, TV, AND BACKFILL DENSITIES, PRESSURE TEST (MANS AND TAPS) LIFT STATION START-UP, ALL PER PROJECT SPECIFICATIONS, COVB AND FDEP REQUIREMENTS.
 3. DRAINAGE (EXFIL, LAMPING (FIELD)), AND BACKFILL DENSITIES PER PROJECT SPECIFICATIONS AND LOCAL ENGINEERING REQUIREMENTS.
 4. EARTHWORK & PAVING: DENSITIES, LBR'S AND FBV'S AS PER PROJECT SPECIFICATIONS AND LOCAL ENGINEERING REQUIREMENTS.
 5. SUBMIT ALL TEST RESULTS FOR ENGINEERING REVIEW WITHIN 3 DAYS OF TESTING. FAILURE TO PROVIDE TEST RESULTS, OR PROVIDING FAILING TEST RESULTS WILL BE GROUNDS FOR DELAY AND/OR REJECTION OF PAY REQUEST APPLICATIONS.
3. AS-BUILTS
 1. GRADING: LOCATION AND ELEVATION OF ALL CONCRETE AND PAVEMENT (VEHICLE USE AND PEDESTRIAN USE IMPROVEMENTS) AT HILOW POINTS, EDGE OF PAVEMENT, AND CENTERLINE AT 50' ON CENTER AND AT CHANGE OF DIRECTION, GRADE BREAKS, PROPERTY LINES (CROSS SECTIONS 50' ON CENTER), TOP OF BANK AND T.O.E. OF SLOPE AND/OR CENTERLINE OF SWALES AND RETENTION AREAS; CROSS SECTIONS 50' ON CENTER ON STORMWATER LAKES FROM TOP TO BOTTOM; MECHANICAL PADS AND FINISHED FLOOR ELEVATIONS; DETAILED LOCATION AND TOPOGRAPHY OF DRIVEWAY TURNOUTS.
 2. WATER AND SEWER FORCE MAINS: LOCATION, TOP ELEVATION AND STATE PLANE COORDINATES AT ALL FITTINGS, VALVES, CHANGES OF DIRECTION AND AT 100' ON CENTER.
 3. GRAVITY SEWER:
 1. SEWER STRUCTURES: DIAMETER OR SIZE, AND LOCATION AND ELEVATION OF STRUCTURES, TOP, BOTTOMS, AND SEWER INVERTS.
 - MAINS AND LATERALS: LOCATION AND INVERT ELEVATIONS AT CONNECTIONS, FITTINGS, AND TERMINATION.
 - LIFT STATIONS: HORIZONTAL LAYOUT AND LOCATION OF ALL EQUIPMENT, PANELS, VAULTS, WET WELL, VALVES; LOCATION OF CONDUIT RUNS AND WATER SERVICE HOSE BIBB; LOCATION AND INVERT ELEVATIONS OF GRAVITY AND FORCE MAINS TO AND FROM LIFT STATION; WET WELL DIAMETER, TOP AND BOTTOM ELEVATIONS; PUMP SIZE, TYPE, DISCHARGE DIAMETER, MANUFACTURER AND MODEL #.
 2. DRAINAGE: ALL STRUCTURES DIAMETER OR SIZE, LOCATION, AND ELEVATION OF TOP, BOTTOM, AND INVERT ELEVATIONS. ALL PIPES, DIAMETER, TYPE/MATERIAL, LOCATION AND INVERT ELEVATION AT CONNECTIONS, FITTINGS, AND TERMINATION POINTS.
 4. IRRIGATION: ALL LINES, SYSTEM EQUIPMENT COMPONENTS, MATERIALS INCLUDING PIPES, VALVES, FITTINGS, SPRINKLER HEADS, AND MISCELLANEOUS APPURTENANCES.
4. OPERATION AND MAINTENANCE MANUALS
 1. CONTRACTOR SHALL PROVIDE THE OWNER WITH OPERATION AND MAINTENANCE MANUALS FOR ALL OPERABLE EQUIPMENT (PUMP STATIONS AND CONTROLS, AUTOMATIC CONTROL VALVES, AND OTHER AUTOMATED EQUIPMENT; CONTROL PANELS, ETC.).
 2. OPERATION AND MAINTENANCE MANUALS SHALL BE SUBMITTED AS A PRE-REQUISITE TO THE PROJECT BEING DEEMED SUBSTANTIALLY COMPLETE.
5. WARRANTY
 1. THE CONTRACTOR SHALL PROVIDE ALL WARRANTIES, CERTIFICATIONS, GUARANTIES, AND WARRANTY BONDS AS SPECIFIED IN THE CONTRACT DOCUMENTS AND PERMIT CONDITIONS INCLUDING:
 - UTILITY MAINTENANCE BOND - FOR ALL PUBLIC WATER AND SEWER UTILITIES INFRASTRUCTURE - (25% OF CONTRACT VALUE)
 - ENGINEERING MAINTENANCE BOND - FOR ALL PAVING, GRADING, AND DRAINAGE IMPROVEMENTS AND INFRASTRUCTURE (25% OF CONTRACT VALUE)
 2. OWNER TRAINING

THE CONTRACTOR SHALL INCLUDE 2 HOURS OF OWNER TRAINING (FOR EACH WATER, SEWER, DRAINAGE, AND IRRIGATION SYSTEMS) FOR ALL OPERABLE EQUIPMENT AND SHALL INCLUDE THE TIME FOR INITIAL ADJUSTMENTS OF EQUIPMENT AND TIME FOR ONE FOLLOW-UP VISIT AND ADJUSTMENTS OF EQUIPMENT 60 DAYS AFTER END USER HAD OPERATIONAL TIME WITH THE EQUIPMENT.

SITE DATA

OWNER/APPLICANT: ST. ANDREW'S EPISCOPAL ACADEMY
210 S INDIAN RIVER DR
FORT PIERCE FL 34950

ST. ANDREW'S EPISCOPAL CHURCH
210 S INDIAN RIVER DR
FORT PIERCE FL 34950

ENGINEER: SCHULKE, BITTLE AND STODDARD, LLC
1717 INDIAN RIVER BOULEVARD
SUITE 201
VERO BEACH, FLORIDA 32960
(772) 770-9622

SURVEYOR: MERIDIAN LAND SURVEYORS, INC
1717 INDIAN RIVER BOULEVARD
SUITE 201
VERO BEACH, FLORIDA 32960
(772) 794-1213

SITE LOCATION: 210 S. INDIAN RIVER DR
317 S. 2ND ST
FORT PIERCE, FLORIDA 34950

TAX I.D. #: 2410-804-0003-000-4
2410-804-0001-000-0
2410-808-0005-000-0

Drawing List

Sheet	Sheet Title
01	COVER SHEET
02	EXISTING CONDITIONS
03	STORMWATER POLLUTION PREVENTION PLANS
04	STORMWATER POLLUTION PREVENTION DETAILS
05	PHASING PLAN
06	SITE PLAN
07	PGU
08	CROSS SECTIONS & GARBAGE TRUCK PATH DETAILS
09-11	DETAILS AND SPECIFICATIONS
12	AERIAL
	ATTACHED:
	- SURVEY

SCHULKE, BITTLE & STODDARD, L.L.C.

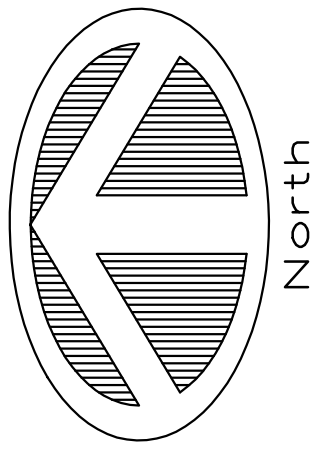
CIVIL & STRUCTURAL ENGINEERING · LAND PLANNING · ENVIRONMENTAL PERMITTING

CERTIFICATION OF AUTHORIZATION NO.: 00008668

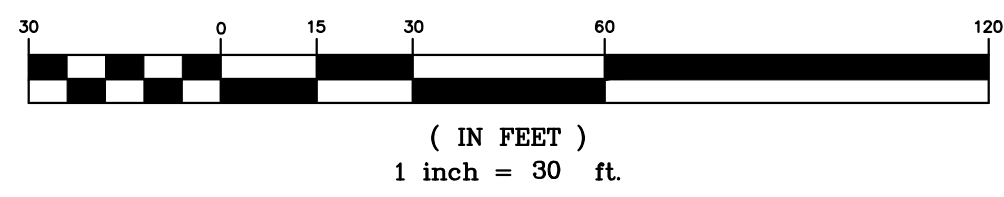
1717 INDIAN RIVER BLVD., SUITE 201 VERO BEACH, FLORIDA 32960
TEL 772 / 770-9622 FAX 772 / 770-9496 EMAIL info@sbsengineers.com

MARK	REVISION	DATE
1		
2		
3		
4		
5		

ENGINEER CERTIFICATION:
DATE:
 □ JOSEPH W. SCHULKE, P.E. REG. No 47048
 □ JODAH B. BITTLE, P.E. REG. No 57396
 □ WILLIAM P. STODDARD, Ph.D., P.E. REG. No 57605



GRAPHIC SCALE



CITY OF FT PIERCE RIGHT OF WAY AND PROPERTY OWNED BY ST. LUCIE COUNTY NOT INCLUDED



NOTE:
ALL WATER AND WASTE WATER LOCATIONS ARE APPROXIMATE, BASED ON ASBUILT DRAWINGS THAT WERE PROVIDED BY THE CITY OF FORT PIERCE.

REVISION	MARK	REASON	DATE
1	U	UPDATED EXISTING PARKING	1/14/2019

SCHULKE, BITTLE & STODDARD, L.L.C.
 CIVIL & STRUCTURAL ENGINEERING - LAND PLANNING - ENVIRONMENTAL PERMITTING
 CERTIFICATION OF AUTHORIZATION NO.: 00008668
 1717 INDIAN RIVER BLVD., SUITE 201 VERO BEACH, FLORIDA 32960
 TEL: 772.770.9622 FAX: 772.770.9496 EMAIL: info@sbsengineers.com

EXISTING CONDITIONS

ST. ANDREW'S
 EPISCOPAL ACADEMY
 FORT PIERCE, FLORIDA

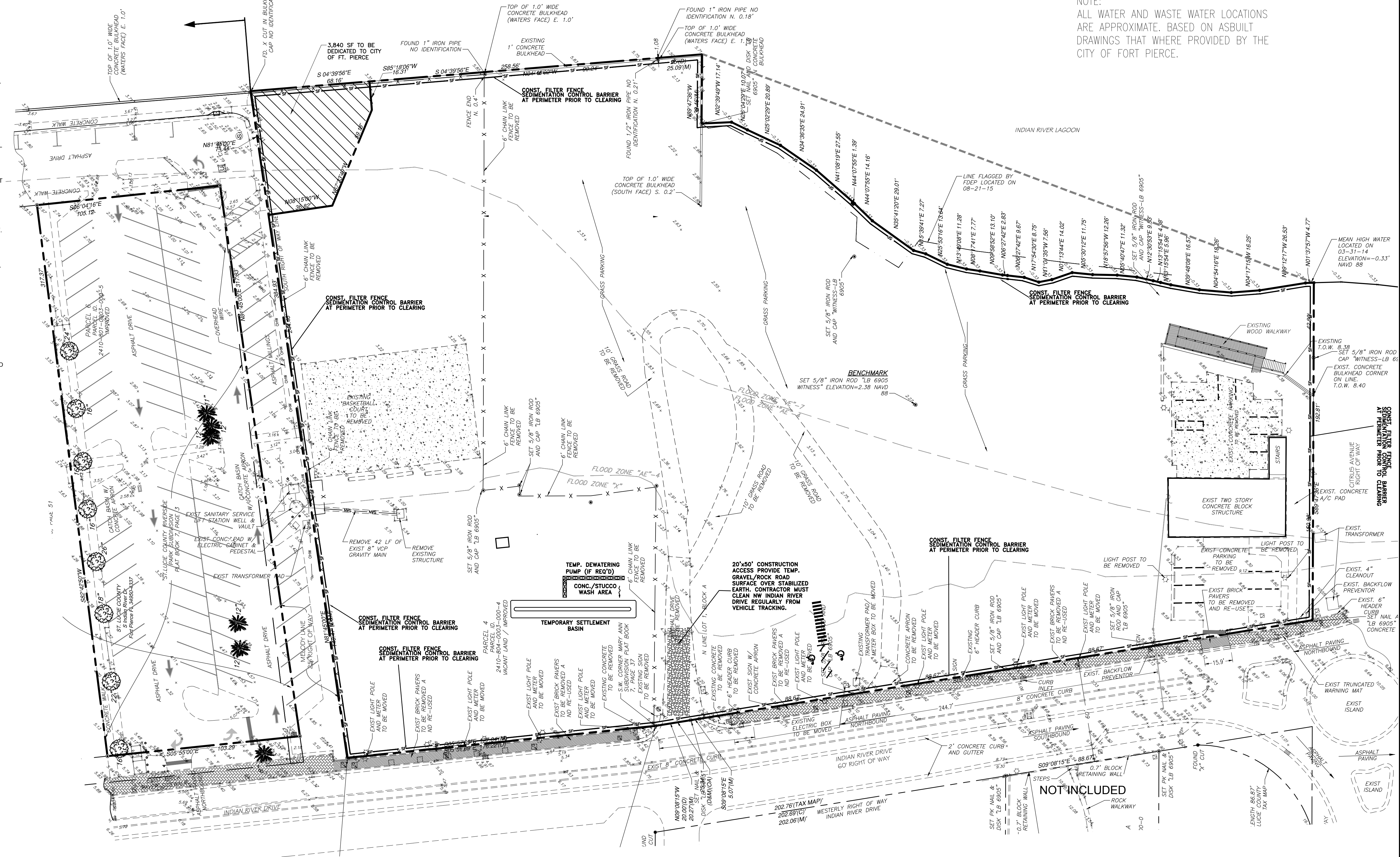
ENGINEER CERTIFICATION
 JOSEPH W. SCHULKE
 FL. REG. NO. 47048
 CLAUDE B. BITTLE
 FL. REG. NO. 57396
 WILLIAM P. STODDARD
 FL. REG. NO. 57605

DATE: _____
 SHEET: 02
 PROJECT NO.: 14-045

EROSION CONTROL NOTES

1. SEDIMENT BASINS AND TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UP-SLOPE LAND DISTURBANCE TAKES PLACE.
2. ALL SEDIMENT CONTROL MEASURES ARE TO BE ADJUSTED TO MEET FIELD CONDITIONS AT THE TIME OF CONSTRUCTION AND BE CONSTRUCTED PRIOR TO ANY GRADING OR DISTURBANCE OF EXISTING SURFACE MATERIAL ON BALANCE AREAS. PERIMETER SEDIMENT BARRIERS SHALL BE CONSTRUCTED TO PREVENT SEDIMENT OR TRASH FROM FLOWING OR FLOATING ON TO ADJACENT PROPERTIES.
3. PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN (7) DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN (7) DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN UNDISTURBED FOR LONGER THAN 30 DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT UNDISTURBED FOR MORE THAN ONE YEAR.
4. DURING CONSTRUCTION OF THE PROJECT, SOIL STOCK PILES SHALL BE STABILIZED, COVERED OR CONTAINED WITH SEDIMENT TRAPPING MEASURES. THE CONTRACTOR IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND PERMANENT STABILIZATION OF ALL SOIL STOCKPILES ON SITE AS WELL AS SOIL INTENTIONALLY TRANSPORTED FROM THE PROJECT SITE.
5. A PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON DENUDED AREAS NOT OTHERWISE PERMANENTLY STABILIZED.
6. AFTER ANY SIGNIFICANT RAINFALL, 1/2" OR GREATER SEDIMENT CONTROL STRUCTURES WILL BE INSPECTED FOR INTEGRITY. ANY DAMAGED DEVICES SHALL BE CORRECTED IMMEDIATELY.
7. CONCENTRATED RUNOFF SHALL NOT FLOW DOWN CUT OR FILL SLOPES UNLESS CONTAINED WITHIN AN ADEQUATE TEMPORARY OR PERMANENT CHANNEL, FLUME, SLOPE DRAIN STRUCTURE OR APPROVED CONTROL.
8. SEDIMENT WILL BE PREVENTED FROM ENTERING ANY STORM WATER SYSTEM, DITCH OR CHANNEL ALL STORM WATER LINES THAT ARE MADE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT SEDIMENT-LADEN WATER CANNOT ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT.
9. WHEN WORK IN A LIVE WATERCOURSE IS PERFORMED, PRECAUTIONS SHALL BE TAKEN TO MINIMIZE ENCROACHMENT. CONTROL SEDIMENT TRANSPORT AND STABILIZE THE WORK AREA TO THE GREATEST EXTENT POSSIBLE DURING CONSTRUCTION.
10. PERIODIC INSPECTION AND MAINTENANCE OF ALL SEDIMENT CONTROL STRUCTURES MUST BE PROVIDED TO ENSURE INTENDED PURPOSE IS ACCOMPLISHED. THE DEVELOPER, OWNER AND/OR CONTRACTOR SHALL BE CONTINUALLY RESPONSIBLE FOR ALL SEDIMENT CONTROLS. SEDIMENT CONTROL MEASURES SHALL BE IN WORKING CONDITION AT THE END OF EACH WORKING DAY.
11. WHERE CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED PUBLIC ROADS PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY TRACKING ONTO THE PAVED SURFACE. WHERE SEDIMENT IS TRANSPORTED ONTO A PUBLIC ROAD SURFACE, THE ROAD SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM THE ROADS BY SHOVELING OR SWEEPING AND TRANSPORTED TO A SEDIMENT DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER. THIS PROVISION SHALL APPLY TO INDIVIDUAL SUBDIVISION LOTS AS WELL AS TO LARGER LAND-DISTURBING ACTIVITIES.
12. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED.
13. PROPERTIES AND WATERWAYS DOWNSTREAM FROM CONSTRUCTION SITES SHALL BE PROTECTED FROM SEDIMENT DEPOSITION AND EROSION.
14. EROSION CONTROL DESIGN AND CONSTRUCTION SHALL FOLLOW THE REQUIREMENTS IN INDEX NUMBERS 101, 102 AND 103 OF F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS, IN ADDITION TO THESE PLANS.
15. CONTRACTOR IS RESPONSIBLE FOR ALL SURFACE WATER DISCHARGES, RAINFALL RUN-OFF OR DEWATERING ACTIVITIES.
16. CONTRACTOR MUST INCORPORATE ALL BMP'S NECESSARY TO MEET OR EXCEED STATE WATER QUALITY REQUIREMENTS.
17. POLLUTION PREVENTION PLAN IS A MINIMUM GUIDELINE ONLY. ADDITIONAL BMP'S MAY BE NECESSARY AT CONTRACTOR'S EXPENSE. NOI TO BE POSTED ON SITE.
18. NO TURBID DISCHARGE. TURBIDITY READINGS ARE REQUIRED ONCE A WEEK AND MUST BE REPORTED TO THE PROJECT ENGINEER.
19. DEWATERING ACTIVITIES:
 - A. DISCHARGE MUST NOT EXCEED STATE WATER QUALITY STANDARDS.
 - B. CONTRACTOR MUST HAVE OR OBTAIN A TRANSFERABLE SURVIVED CONSUMPTIVE USE PERMIT KNOWN AS A "NOTICED GENERAL PERMIT FOR SHORT TERM CONSTRUCTION DE-WATERING". UNLESS DEWATERING ACTIVITIES WILL RESULT IN LESS THAN 300,000 GPD FOR 30 DAYS OR LESS.
 - C. NO HYDRAULIC PUMPS MAY BE USED FOR DEWATERING UNLESS APPROVED BY THE WATER MANAGEMENT DISTRICT FOR THAT AREA. DEWATERING EXISTING STORMWATER RETENTION AREAS (POND/LAKES) MAY BE EXEMPT FROM THIS CONDITION. CONTRACTOR TO CONFIRM WITH SURVIVED.
 - D. NO TURBID DISCHARGE. TURBIDITY READINGS ARE REQUIRED ONCE A WEEK AND MUST BE REPORTED TO THE PROJECT ENGINEER AND TO INDIAN RIVER COUNTY.
20. SEE ADDITIONAL DETAILS, SPECIFICATIONS AND REQUIREMENTS ON SHEET C-301.

CITY OF FT PIERCE RIGHT OF WAY AND PROPERTY OWNED BY ST. LUCIE COUNTY NOT INCLUDED



NOTE:
ALL WATER AND WASTE WATER LOCATIONS ARE APPROXIMATE, BASED ON ASBUILT DRAWINGS THAT WERE PROVIDED BY THE CITY OF FORT PIERCE.

STORMWATER POLLUTION PREVENTION PLAN

A SITE PLAN MUST BE DEVELOPED AND MUST CONTAIN, AT A MINIMUM, THE FOLLOWING INFORMATION:

1. DRAINAGE PATTERNS - SEE SURVEY AND DRAINAGE PLAN, SHEETS 4, 6 AND 7.
2. APPROXIMATE SLOPES AFTER MAJOR GRADING ACTIVITIES - SEE SHEET 4 AND 7.
3. AREAS OF SOIL DISTURBANCE - SEE SHEETS 4 AND 7.
4. OUTLINE ALL AREAS THAT ARE NOT TO BE DISTURBED - N/A.
5. LOCATION OF ALL MAJOR STRUCTURAL AND NON-STRUCTURAL CONTROLS - THIS SHEET.
6. THE LOCATION OF EXPECTED STABILIZATION PRACTICES - THIS SHEET.
7. WETLANDS AND SURFACE WATERS - SHEETS 4 AND 7.
8. LOCATIONS WHERE STORMWATER MAY DISCHARGE TO A SURFACE WATER OR MS4. SEE SHEET 4 AND 7.

DESCRIBE THE NATURE OF THE CONSTRUCTION ACTIVITY:
SITE PREPARATION AND STABILIZATION CONSTRUCTION ENTRANCE

1. SITE PREPARATION AND STABILIZATION CONSTRUCTION ENTRANCE
2. INSTALL SILT FENCE AROUND PERIMETER OF SITE. INSTALL TURBIDITY BARRIERS AT ALL OUTFALL LOCATIONS. CLEAR LAND. CONSTRUCT BERM ON PERIMETER AND TEMPORARY SWALES AS SHOWN ON PLANS. BERM SHALL BE CONSTRUCTED USING INITIAL IMPORTED FILL MATERIAL. THE BERM AND SWALE SHALL BE SEED.

TOTAL AREA OF THE SITE: 3.89 ACRES
TOTAL AREA OF THE SITE TO BE DISTURBED: 3.89 ACRES

EXISTING DATA DESCRIBING THE SOIL OR QUALITY OF ANY STORMWATER DISCHARGE:
SEE SOIL BORINGS ON SHEET 3. NO DISCHARGE FROM DISTURBED AREAS IS ANTICIPATED.

DRAINAGE AREA SIZE FOR EACH DISCHARGE POINT:
ENTIRE SITE = 3.89 ACRES

LATITUDE AND LONGITUDE OF THE SITE:
LATITUDE = 27° 08' 44" N
LONGITUDE = 80° 19' 19.6" W

BEST MANAGEMENT PRACTICES (BMP'S) AND MEASURES THAT WILL BE IMPLEMENTED AT THE CONSTRUCTION SITE AND TIME FRAMES IN WHICH THE CONTROLS WILL BE IMPLEMENTED:
THE CONTRACTOR WILL USE HAY BALES, SILT FENCE, FILTER BARRIERS, AND OTHER BMP'S. THE TIME FRAMES FOR CLEARING, EARTHWORK, AND ANTICIPATED BMP'S ARE:

1. INSTALL SILT FENCE AT PERIMETER OF SITE AND SILT BARRIERS AT DOWNSTREAM DITCHES/SWALES.
2. CLEAR/CURB AREA NECESSARY FOR TEMPORARY GRAVEL DRIVEWAY AND ADJACENT SWALE.
3. CONSTRUCT TEMPORARY GRAVEL DRIVEWAY WITH SWALE, AND GRADE/SOD SWALE AT ENTRANCE.
4. CLEAR BALANCE OF SITE.
5. CONSTRUCT 12" RCP AND MITERED END SECTIONS.
6. IMPORT FILL MATERIAL:
-CONSTRUCT CONTAINMENT BERMS AT NORTH AND SOUTH END OF ROAD.
-SEED MULCH BERMS.
-FILL BALANCE OF SITE.
7. MAINTAIN DOWNSTREAM SILT BARRIERS AND PERIMETER SILT FENCE, DURING CONSTRUCTION.
-POLLYWADDLER/SILT FENCE/FILTER SACKS AS INLETS AND PIPES ARE INSTALLED.
-PROVIDE STOCKPILE PROTECTION, CONCRETE/STUCCO WASH AREAS, AND OTHER BMP'S WHEN NECESSARY TO CONTAIN PROPOSED WORK.
8. INCORPORATE ADDITIONAL BMP'S WHEN NEEDED DURING THE COURSE OF CONSTRUCTION.
-POLLYWADDLER/SILT FENCE/FILTER SACKS AS INLETS AND PIPES ARE INSTALLED.
-PROVIDE STOCKPILE PROTECTION, CONCRETE/STUCCO WASH AREAS, AND OTHER BMP'S WHEN NECESSARY TO CONTAIN PROPOSED WORK.

TEMPORARY AND PERMANENT STABILIZATION PRACTICES:
-TEMP. HAY BALES/SILT FENCES/FLOATING TURBIDITY BARRIERS PER PLAN. FILTER FABRIC SHALL BE PLACED UNDER THE ROCK GRAVEL DRIVEWAY, AT ALL SWALE OUTFALLS, AND RETENTION POND OUTFALLS.
-PERM. SEED/MULCH/CHED/SOD. CONTROLLED GRADING AND DRAINAGE TO DETENTION BASINS.
-STABILIZE ALL DE-NUDED AREAS IF LEFT UNDISTURBED FOR MORE THAN 7 DAYS - USE RYE GRASS PER MANUFACTURER'S APPLICATION RATES, AND MULCHED WITH STRAW AT 4000 LB PER ACRE.

STRUCTURAL CONTROLS TO BE IMPLEMENTED TO DIVERT STORMWATER FLOW FROM RECEIVING WATERS:
-TEMP. GRAVEL ENTRANCE ROAD, GRADED TO DRAIN TO A TEMPORARY SEDIMENT SWALE OR RETENTION AREA.
-TEMP. DRAINS TO RETENTION PONDS
-TEMP. BERMS AT PROJECT PERIMETER - PER PLAN.
-INLETS/OUTLETS WILL BE PROTECTED WITH FILTER FABRIC AND PROPERLY INSTALLED HAY BALES.
-SILT FENCE SHALL BE PLACED AROUND THE ENTIRE PERIMETER OF DISTURBED AREAS.
-A DOUBLE ROW OF SILT FENCE WILL BE PROVIDED AROUND ALL STOCK PILE AREAS.

PERMANENT STORMWATER MANAGEMENT CONTROLS SUCH AS, DETENTION OR RETENTION SYSTEMS OR VEGETATED SWALES
-NET DETENTION SYSTEMS INCORPORATED AS PERMANENT BMP FOR WATER QUALITY CONTROL.

DESCRIBE IN DETAIL CONTROLS FOR THE FOLLOWING POTENTIAL POLLUTANTS:
-ON SITE WASTE WILL BE CONTAINERIZED. CONTRACTOR IS RESPONSIBLE FOR RECYCLING ALL WASTE MATERIALS. WITH A MINIMUM REQUIREMENT OF 75%.
-CONCRETE/STUCCO WASH AREA SHALL BE PROVIDED.
-LEFT UNATTENDED FOR MORE THAN 7 DAYS.

OFF-SITE VEHICLE TRACKING:
-PROVIDE HARD SURFACE AT TEMP. DRIVEWAY (ROCK/GRAVEL DRIVEWAY).
-REGULAR MAINTENANCE OF ADJACENT ROAD RIGHT OF WAY, INCLUDING STREET SWEEPING, & RUT REPAIR IN NON-PAVED AREAS.

APPLICATION RATES OF ALL FERTILIZERS, HERBICIDES AND PESTICIDES:
-NONE PROPOSED.

STORAGE, APPLICATION, GENERATION AND MIGRATION OF ALL TOXIC SUBSTANCES:
-NONE PROPOSED.

DESCRIPTION OF THE MAINTENANCE PLAN FOR ALL STRUCTURAL AND NON-STRUCTURAL CONTROLS:
-CONTRACTOR SHALL HAVE SWPPP COMPONENTS INSPECTED BY A FDEP CERTIFIED INSPECTOR AND MAINTAIN ALL CONTROLS DAILY, AND HAVE WEEKLY SWPPP INSPECTION REPORTS PREPARED, AND WITHIN 24 HOURS OF THE END OF ANY RAINFALL EVENT THAT IS 1/2" OR GREATER.
-ENGINEER SHALL INSPECT PERIODICALLY.

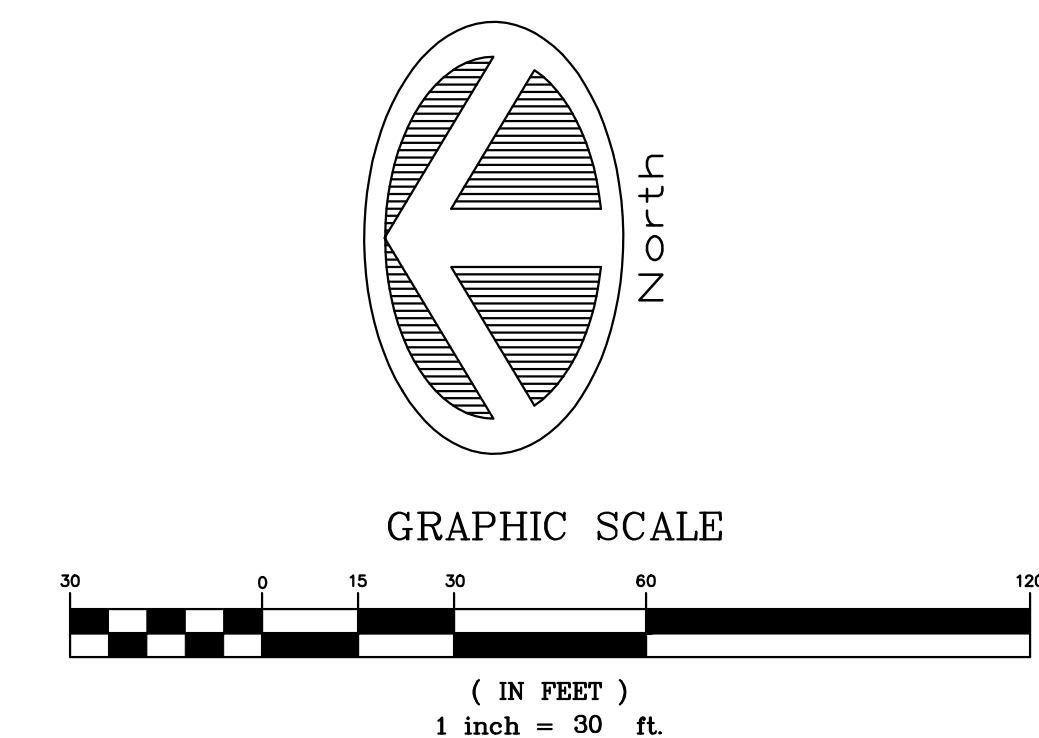
NOTES:
1. THIS PLAN, COPY OF FDEP NOI (STATE OF FLORIDA GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES) AND ALL REQUIRED INSPECTION REPORTS, TESTS, AND ALL OTHER DOCUMENTATION SHALL BE KEPT AT THE PROJECT SITE.
2. THE FOLLOWING CERTIFICATION SHALL BE COMPLETED BY ALL CONTRACTORS/ SUB-CONTRACTORS RESPONSIBLE FOR ANY PORTION OF THE IMPLEMENTATION OF THE S.W.P.P.P.:
CERTIFICATION:
"I CERTIFY UNDER THE 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 THEREUNDER."

SWPPP DESCRIPTION OF WORK/ RESPONSIBILITY	NAME TITLE	CONTRACTOR OR SUB CONTRACTOR (NAME, ADDRESS, PHONE)	NAME/SIGNATURE TO CERTIFICATION	DATE

PLAN PREPARATION:
1. THIS PLAN ORIGINALLY PREPARED BY THE OWNER'S ENGINEER. THIS PLAN WILL BE MADE AVAILABLE TO CONTRACTOR TO EDIT, CHANGE, MODIFY, AS IT DEEMS NECESSARY FOR COMPLIANCE WITH FDEP REGULATIONS, PERMIT CONDITIONS, AND AS REQUIRED FOR CONTRACTOR TO SIGN THE CERTIFICATION BELOW.
2. THE FOLLOWING CERTIFICATION SHALL BE SIGNED BY THE ENTITY (CONTRACTOR) RESPONSIBLE FOR SWPPP PLAN IMPLEMENTATION:
"I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED, BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS."

BY: _____ DATE: _____
SIGNATURE _____

ARCHAEOLOGICAL:
IF PREHISTORIC OR HISTORIC ARTIFACTS, SUCH AS POTTERY OR CERAMICS, STONE TOOLS, OR METAL IMPLEMENTS, OR ANY OTHER PHYSICAL REMAINS THAT COULD BE ASSOCIATED WITH THE NATIVE AMERICAN CULTURES, OR EARLY COLONIAL OR AMERICAN SETTLEMENT ARE ENCOUNTERED AT ANY TIME WITHIN THE PROJECT SITE AREA, THE PERMITTED PROJECT SHOULD CEASE ALL ACTIVITIES INVOLVING SUBSURFACE DISTURBANCE IN THE IMMEDIATE VICINITY OF SUCH DISCOVERIES. THE PERMITEE, OR OTHER DESIGNEE, SHOULD CONTACT THE FLORIDA DEPARTMENT OF STATE, DIVISION OF HISTORICAL RESOURCES. REVIEW AND COMPLIANCE SECTION AT (850) 245-6333 OR (800) 847-7278, AS WELL AS THE APPROPRIATE PERMITTING AGENCY OFFICE. PROJECT ACTIVITIES SHOULD NOT RESUME UNTIL VERBAL AND/OR WRITTEN AUTHORIZATION IS OBTAINED FROM HISTORICAL RESOURCES. IN THE EVENT THAT UNMARKED HUMAN REMAINS ARE ENCOUNTERED DURING PERMITTED ACTIVITIES, ALL WORK SHALL STOP IMMEDIATELY AND THE PROPER AUTHORITIES NOTIFIED IN ACCORDANCE WITH SECTION 872.05, FLORIDA STATUTES.



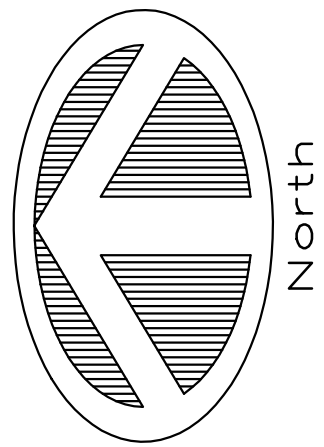
DATE	REASON	MARK

SCHULKE, BITTLE & STODDARD, L.L.C.
CIVIL & STRUCTURAL ENGINEERING - LAND PLANNING - ENVIRONMENTAL PERMITTING
CERTIFICATION OF AUTHORIZATION NO.: 00008668
1717 INDIAN RIVER BLVD., SUITE 201 VERO BEACH, FLORIDA 32960
TEL: 772/770-9622 FAX: 772/770-9496 EMAIL: info@sbsengineers.com

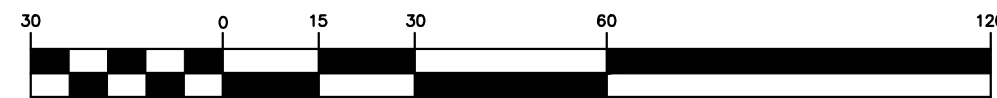
ST. ANDREW'S EPISCOPAL ACADEMY
FORT PIERCE, FLORIDA

STORMWATER POLLUTION PREVENTION PLANS

ENGINEER CERTIFICATION
 JOSEPH W. SCHULKE
 KEVIN M. BITTLE
 WILLIAM P. STODDARD
 FL. REG. NO. 47048
 FL. REG. NO. 8171
 FL. REG. NO. 57396
 DATE: _____
 SHEET 03
 PROJECT NO. 14-045



GRAPHIC SCALE

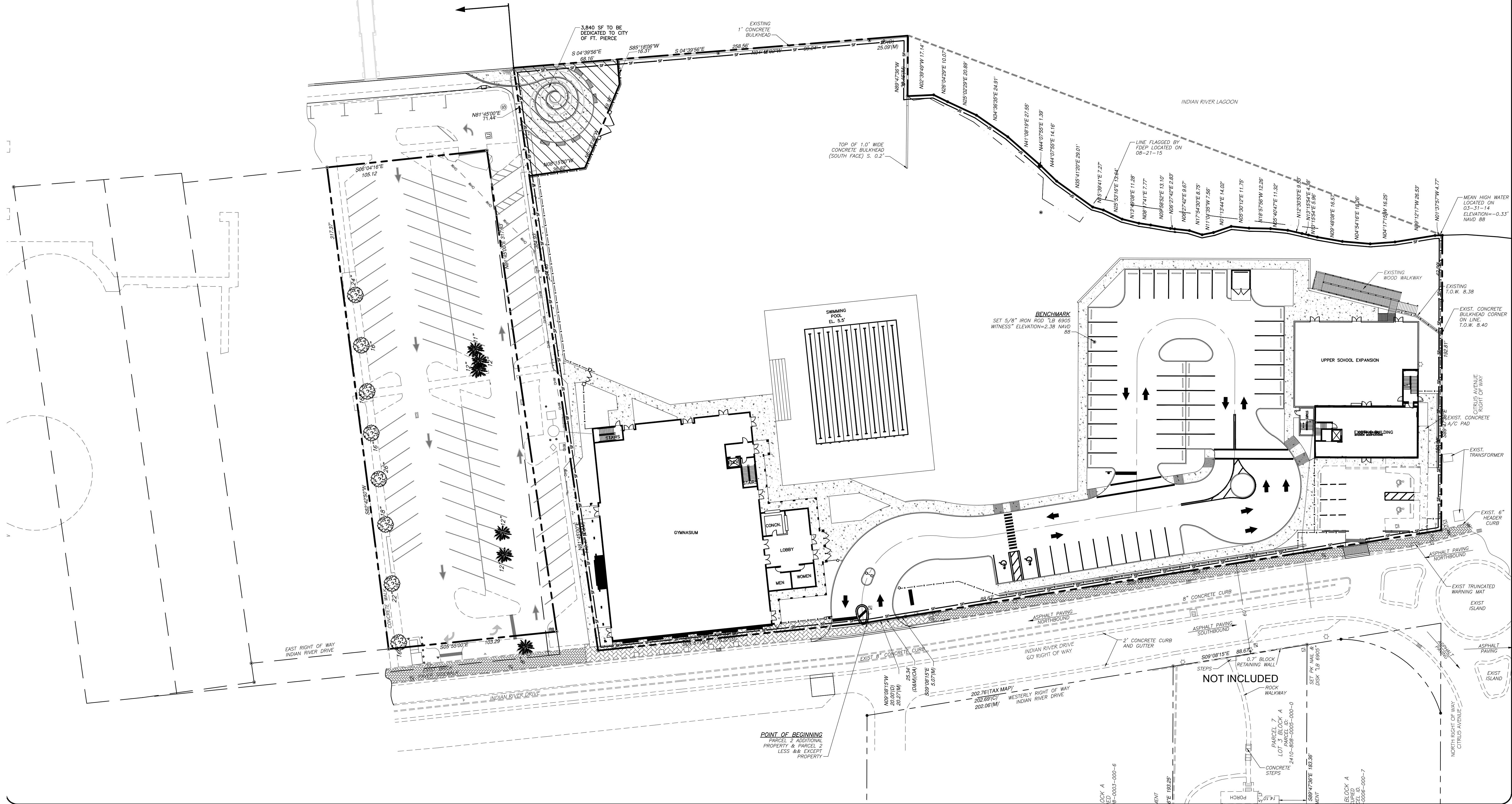


(IN FEET)
1 inch = 30 ft.

PHASING

PHASE	DESCRIPTION	COMMENCE	COMPLETE
1	PEDESTRIAN PLAZA	6/2015	9/2015
2	ONSITE PARKING, DRIVE AISLE, UTILITY IMPROVEMENTS, SIDEWALKS, STORM WATER MANAGEMENT SYSTEM	6/2020	11/2020
3	GYMNASIUM, DOCK, SWIMMING POOL	5/2022	10/2024
4	UPPER SCHOOL EXPANSION	5/2022	10/2024

CITY OF FT PIERCE RIGHT OF WAY AND PROPERTY OWNED BY ST. LUCIE COUNTY NOT INCLUDED



REVISION	DATE	REASON
1	5/15/2015	REVISIONS PER TRC COMMENTS
2	6/25/2015	REVISIONS PER COMMENTS
3	1/14/2019	REVISIONS PER COMMENTS

SCHULKE, BITTLE & STODDARD, L.L.C.
 CIVIL & STRUCTURAL ENGINEERING • LAND PLANNING • ENVIRONMENTAL PERMITTING
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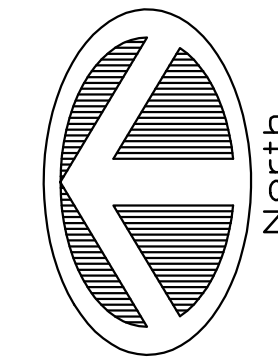
PHASING PLAN

ST. ANDREW'S EPISCOPAL ACADEMY
 FORT PIERCE, FLORIDA

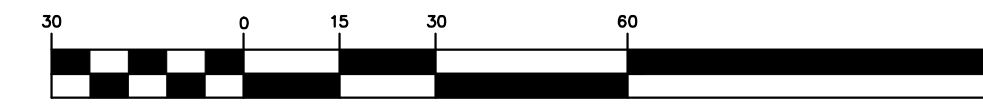
ENGINEER CERTIFICATION
 JOSEPH W. SCHULKE
 FL REG. NO. 47048
 CHADWICK B. BITTLE
 FL REG. NO. 57396
 WILLIAM P. STODDARD
 FL REG. NO. 57605

DATE: _____ SHEET: **05**
 PROJECT NO.: 14-045

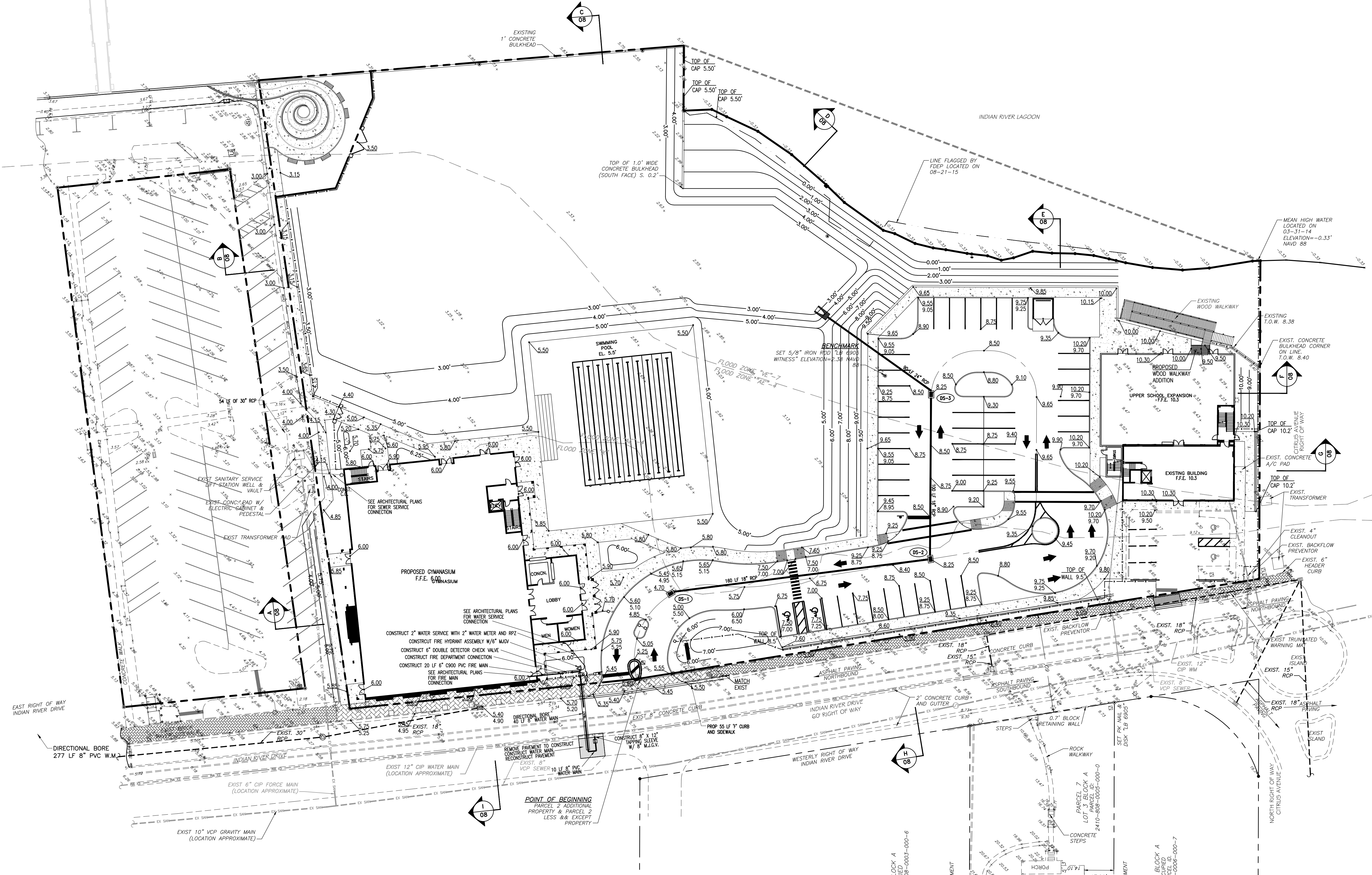
DRAINAGE STRUCTURE SCHEDULE								
STRUCTURE NUMBER	PHASE	DESCRIPTION	TOP ELEV.	N INV. ELEV.	S INV. ELEV.	E INV. ELEV.	W INV. ELEV.	MISC.
DS-1	1	TYPE C INLET	4.70		1.10			
DS-2	1	TYPE C INLET	8.25		0.75			
DS-3	1	TYPE C INLET	8.25	0.50	0.75		0.50	
DS-4	1	TYPE C INLET	4.00			0.50		



GRAPHIC SCALE



(IN FEET)
1 inch = 30 ft.



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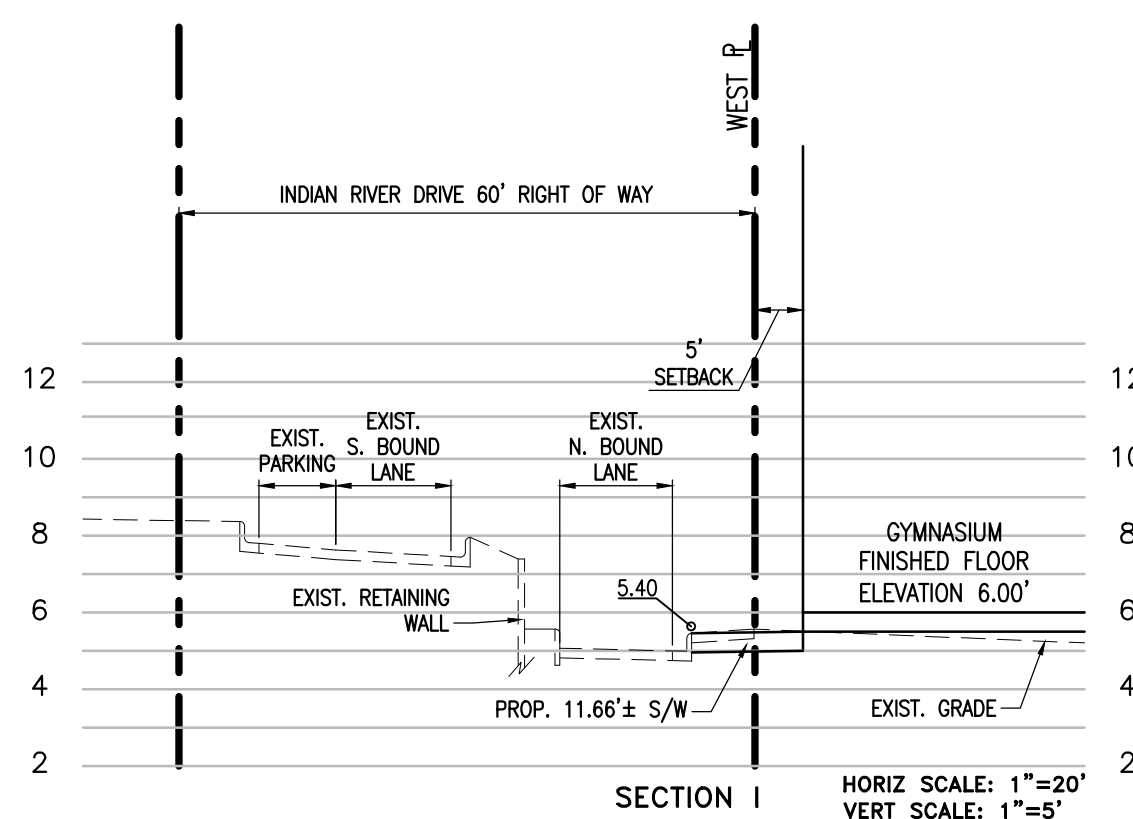
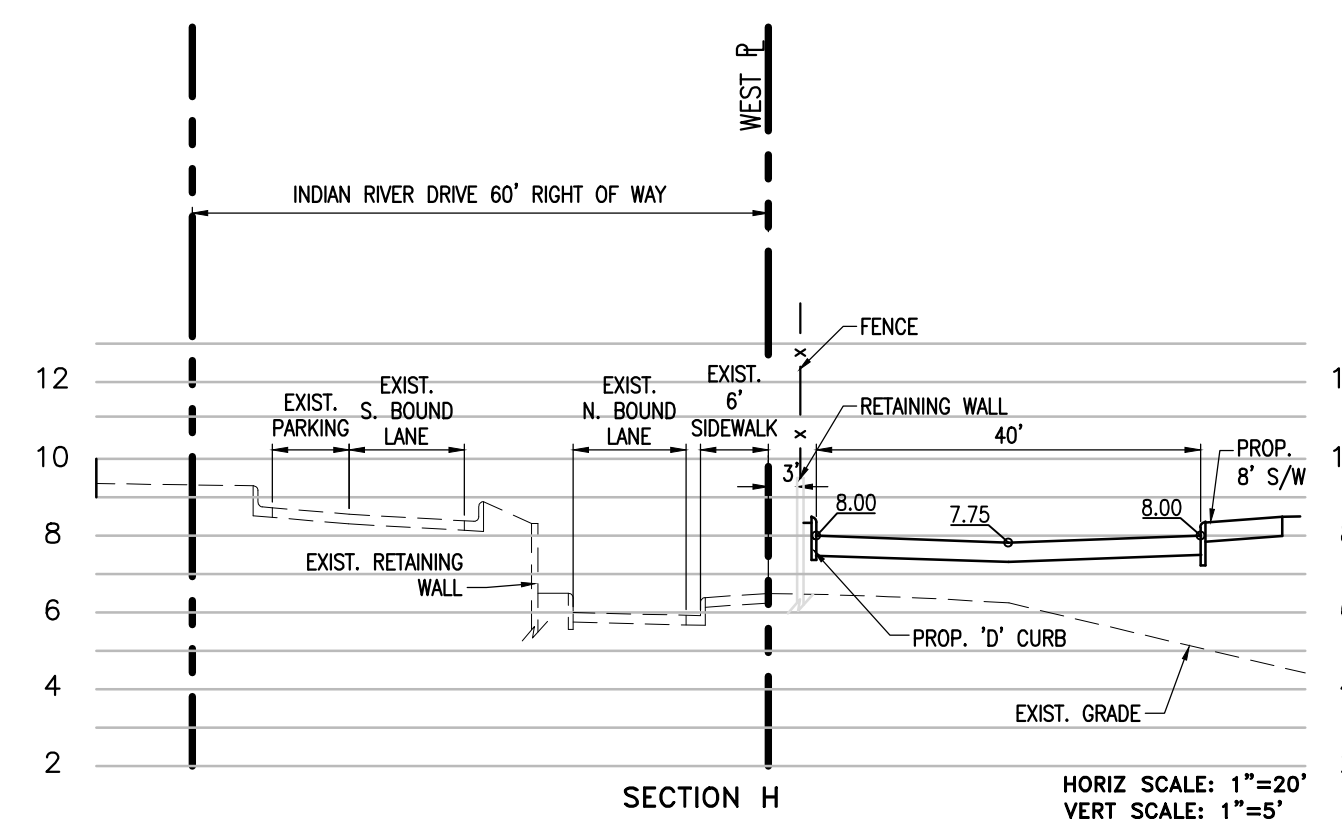
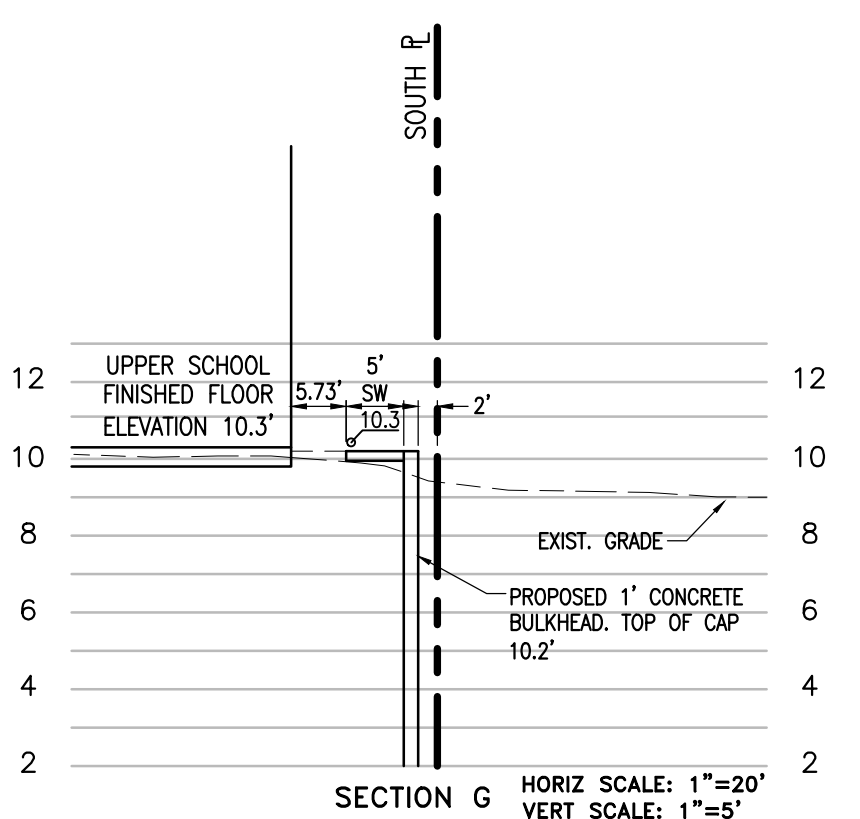
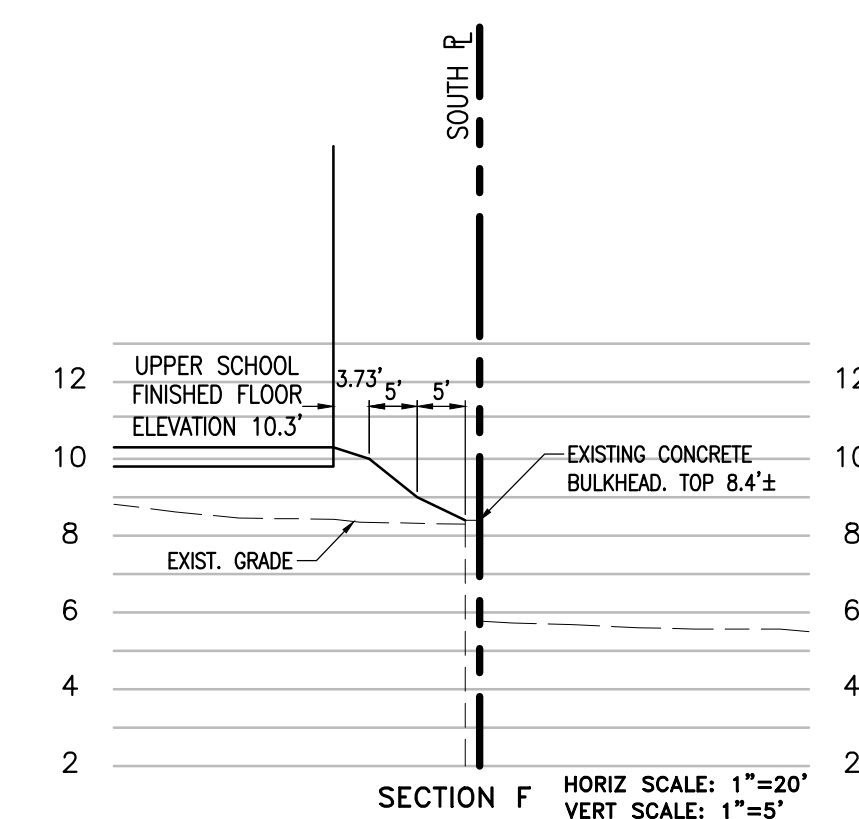
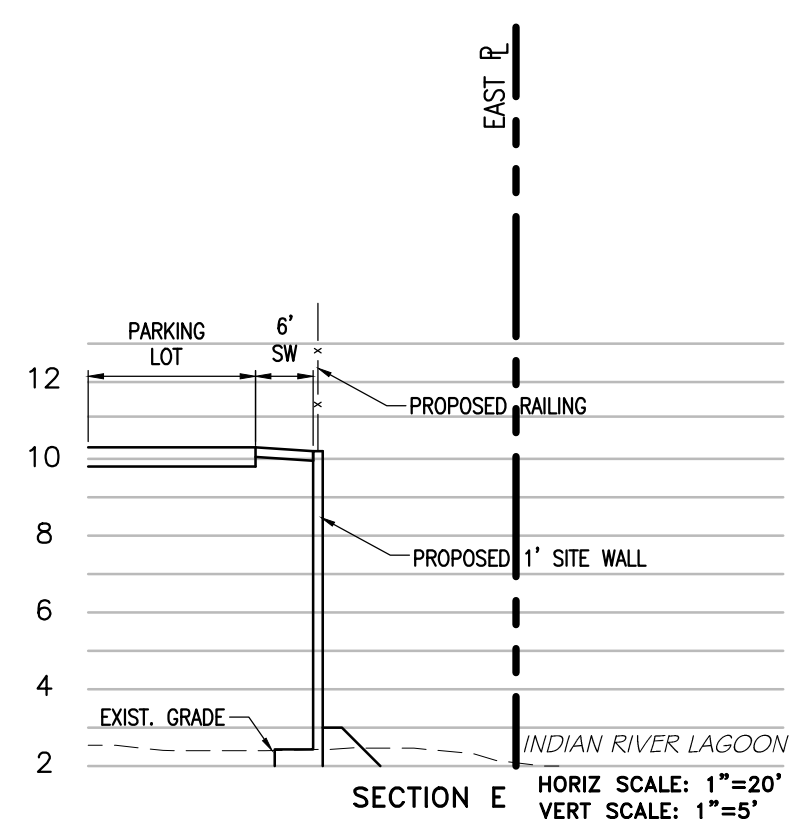
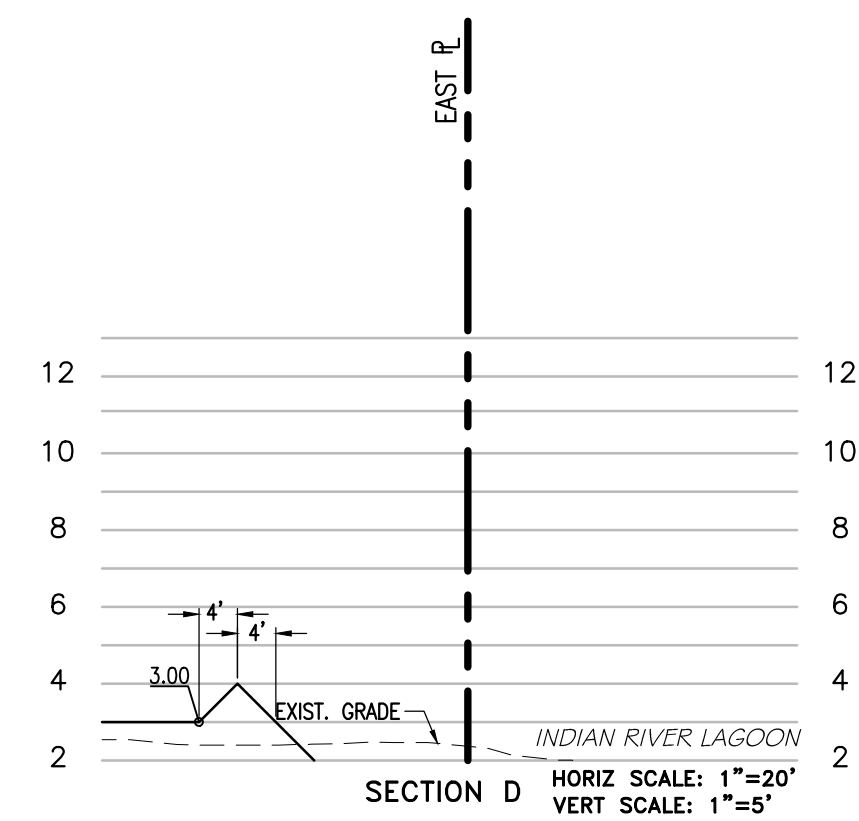
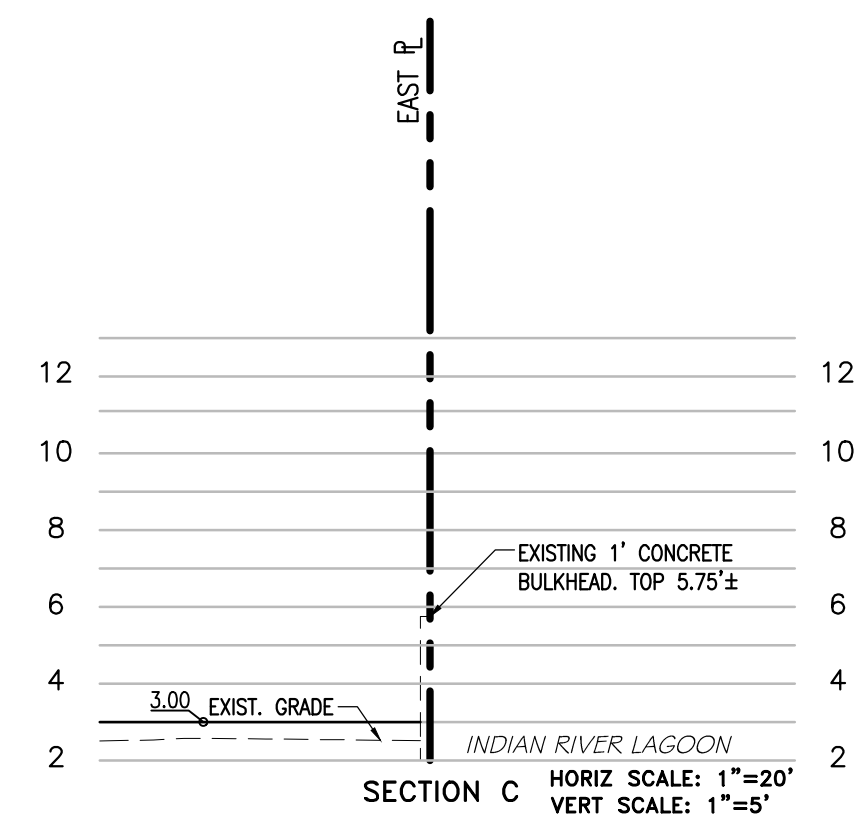
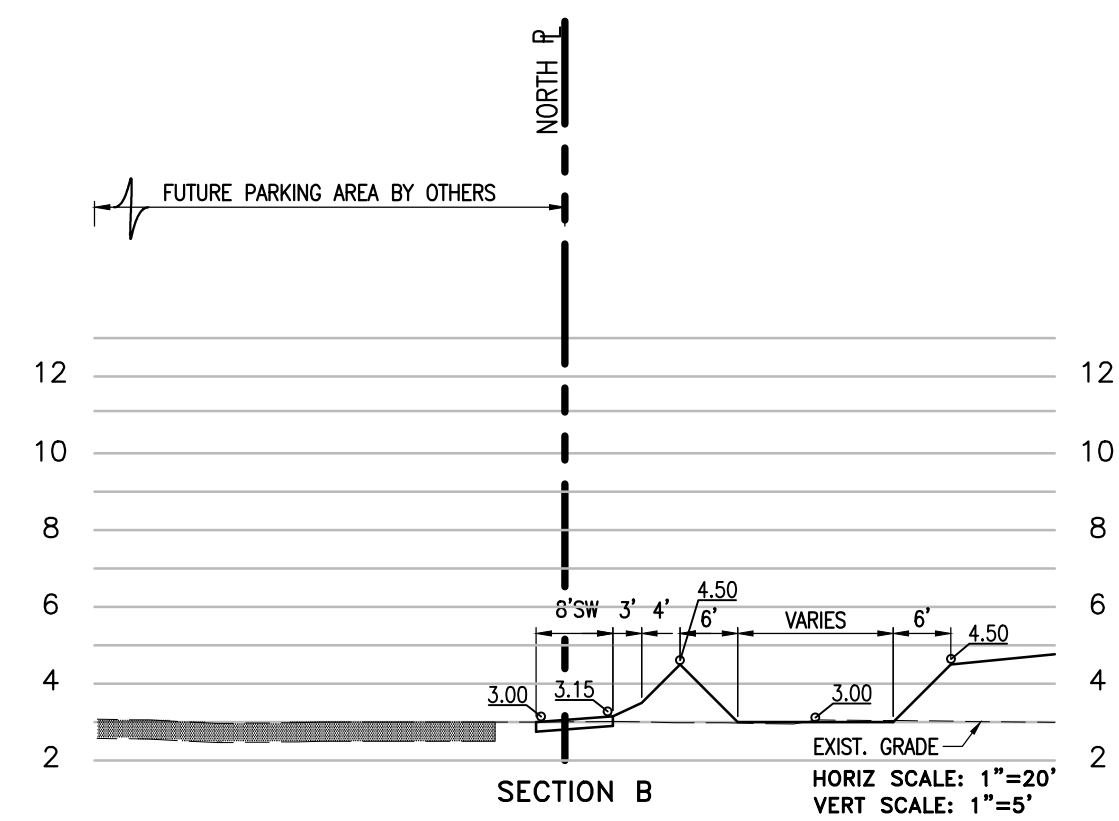
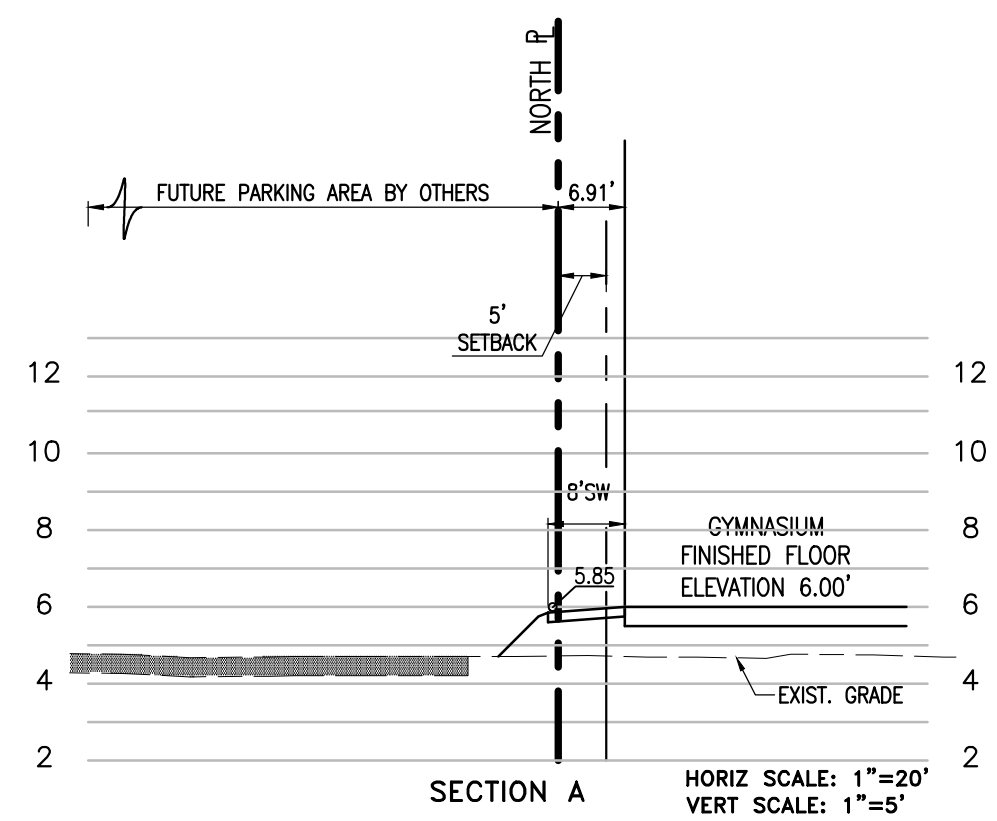
PAVING, GRADING &
 UTILITIES PLAN

ST. ANDREW'S
 EPISCOPAL ACADEMY
 FORT PIERCE, FLORIDA

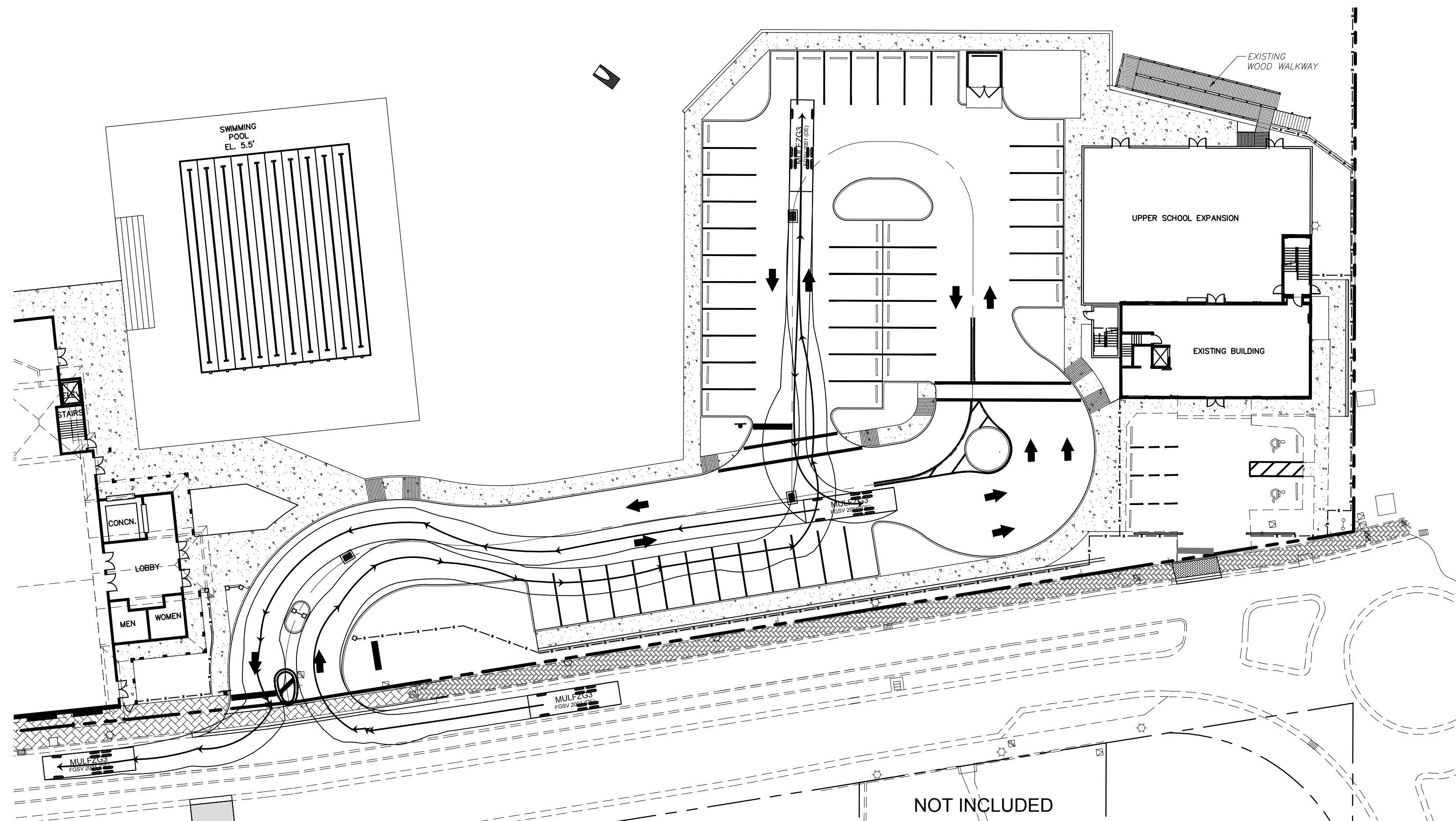
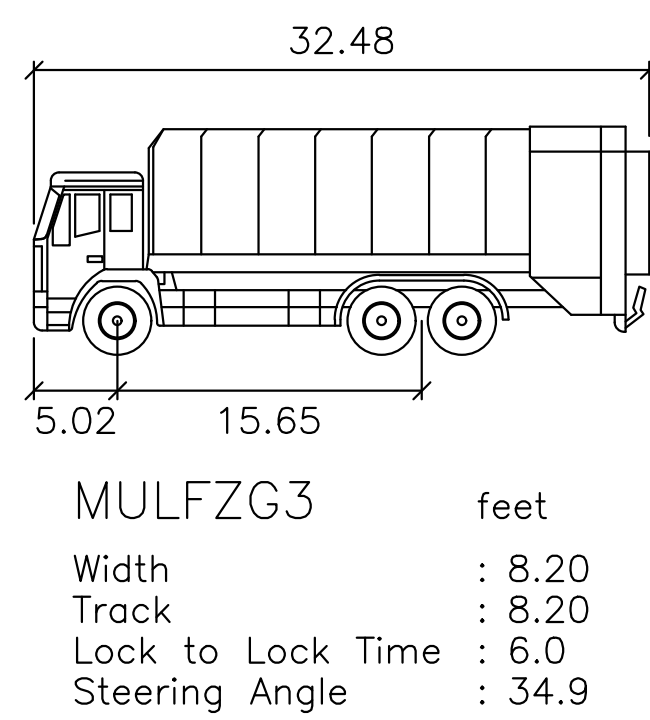
ENGINEER CERTIFICATION
 JOSEPH W. SCHULKE
 FL. REG. NO. 47048
 JUDITH B. BITTLE
 FL. REG. NO. 57396
 WILLIAM P. STODDARD
 FL. REG. NO. 57605

DATE: SHEET 07
 PROJECT NO. 14-045

MARK	REASON	DATE
1	REVISIONS PER TRC COMMENTS	5/19/2015
2	REVISIONS PER COMMENTS	6/25/2015
3	MAJOR AMENDMENT	4/24/2018
4	REVISIONS PER COMMENTS	1/14/2019



CROSS SECTIONS



GARBAGE TRUCK PATH DETAILS

DATE	REVISION	MARK
5/15/2015	1	DESIGNED W.P.S.
6/25/2015	2	REVISED PER COMMENTS
4/24/2018	3	MAJOR AMENDMENT
12/04/14		CHECKED W.P.S.
		SCALE AS NOTED
		DATE

SCHULKE, BITTLE & STODDARD, L.L.C.
 CIVIL & STRUCTURAL ENGINEERING - LAND PLANNING - ENVIRONMENTAL PERMITTING
 CERTIFICATION OF AUTHORIZATION NO.: 00008668
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 TEL 772 / 770-9496 FAX 772 / 770-9496 EMAIL info@absengineers.com

CROSS SECTIONS
 & GARBAGE TRUCK
 PATH DETAILS

ST. ANDREW'S
 EPISCOPAL ACADEMY
 FORT PIERCE, FLORIDA

ENGINEER CERTIFICATION
 JOSEPH W. SCHULKE
 FL. REG. NO. 47048
 JOHNN B. BITTLE
 FL. REG. NO. 57396
 WILLIAM P. STODDARD
 FL. REG. NO. 57605

DATE: SHEET 08
 PROJECT NO. 14-045

FORT PIERCE UTILITIES AUTHORITY
WATER DISTRIBUTION NOTES

1. ALL CONSTRUCTION MATERIAL, INSTALLATION AND TESTING SHALL CONFORM TO THE STANDARD SPECIFICATIONS OF THE FORT PIERCE UTILITIES AUTHORITY.
2. WATER MAINS WHERE SPECIFIED AS POLYETHYLENE GLASS (PE) SHALL CONFORM TO AWWA C-900 OR C-905, PRESSURE CLASS 150 LBS OR 175 LBS. WATER MAINS WHERE SPECIFIED AS POLYETHYLENE GLASS SHALL CONFORM TO AWWA C-900 OR C-905, STANDARD CODE DESIGNATION PEHAW, PIPE CLASS 200, DIMENSION RATIO (DR) 17 FOR DIRECT BURIAL (DR) 11 FOR DIRECTIONAL BORING, AND DRD 8 FOR 2 INCH AND SMALLER PIPES.
3. WATER MAINS WHERE SPECIFIED AS DUCTILE IRON PIPE, SHALL CONFORM TO AWWA C115/A21.51 AND SHALL BE PRESSURE CLASS 250 (IRWMA).
4. POLYETHYLENE GLASS WATER MAIN SHALL BE BLUE IN COLOR OR WHITE IN COLOR WITH BLUE STRIPES. THE USE OF IDENTIFICATION TAPE ATTACHED TO THE TOP OF THE PIPE MAY BE USED IN LIEU OF MARKING ON THE PIPE. ALSO DIP PIPE SHALL REQUIRE THE USE OF IDENTIFICATION TAPE AND THIN WIRE.
5. FITTINGS SHALL BE DUCTILE IRON CONFORMING TO AWWA/C115/A21.51, CLASS 250 MIN. CEMENT LINED AND FACTORY COATED.
6. GATE VALVES SHALL BE WELDED RESIDENT SEAT, KENNEDY KEN-SEAL, AMERICAN OR APPROVED EQUAL. VALVES SHALL CONFORM TO AWWA C-508.
7. WATER LINES SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH FPA DESIGN AND CONSTRUCTION STANDARDS. THE CONTRACTOR SHALL SUBMIT CERTIFIED DENSITY TESTS AS REQUIRED BY FPA ENGINEERING AND THE CITY, COUNTY, FOOT. IN CASES WHERE PAVED AREAS FALL WITHIN THE JURISDICTION OF LOCAL OR STATE AGENCIES, THE CONTRACTOR REQUIREMENTS SHALL NOT BE LESS THAN THE MINIMUM REQUIRED BY THE APPROPRIATE RESPONSIBLE AGENCY.
8. NO FIELD CHANGES OR DEVIATIONS FROM THE DESIGN SHALL BE MADE WITHOUT PRIOR APPROVAL OF THE FPA ENGINEER AND CITY/COUNTY/FOOT ENGINEER.
9. THE CONTRACTOR SHALL NOTIFY FPA ENGINEERING AND CITY/COUNTY/FOOT ENGINEERING 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
10. A PRE-CONSTRUCTION CONFERENCE BETWEEN THE ENGINEER, THE CONTRACTOR, FPA, AND CITY/COUNTY/FOOT ENGINEER SHALL BE MANDATORY PRIOR TO COMMENCEMENT OF CONSTRUCTION.
11. TRAFFIC CONTROL, BARRICADES, ETC., SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARDS AND APPROVED BY THE CITY ENGINEER.
12. MINIMUM COVER SHALL BE 38 INCHES EXCEPT AS APPROVED BY THE UTILITIES ENGINEER AND CITY/COUNTY/FOOT ENGINEER. PIPES WITH COVER LESS THAN 30 INCHES SHALL BE CONSTRUCTED OF DUCTILE IRON OR 18 INCH CASING.
13. DISTURBED AREAS SHALL BE RESTORED IN CONFORMANCE WITH THE APPLICABLE GOVERNING AGENCY REQUIREMENTS.
14. EXISTING UTILITIES AND DRAINAGE SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION AND PROTECTED BY THE CONTRACTOR.
15. WATER MAINS SHALL BE TESTED AND DISINTEGRATED IN ACCORDANCE WITH THE APPLICABLE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION AND AWWA C-261 FOR DISINTEGRATION.

WATER DISTRIBUTION
G-1
NOTES
DATE: _____
DESIGNED BY: _____
DRAWN BY: _____
CHECKED BY: _____
SCALE: AS NOTED
DATE: 12/04/14

FORT PIERCE UTILITIES AUTHORITY WASTEWATER CONSTRUCTION NOTES

1. ALL CONSTRUCTION MATERIAL, INSTALLATION AND TESTING SHALL CONFORM TO THE STANDARD SPECIFICATIONS OF THE FORT PIERCE UTILITIES AUTHORITY.
2. GRAVITY SEWER MAINS SHALL BE POLYETHYLENE GLASS (PE) GREEN OR WHITE IN COLOR. GRAVITY SEWER MAINS SHALL HAVE LOCATOR TAPE WITH "SEWER" MARKED ON TAPE AND SHALL CONFORM TO ASTM 1248.
3. THE MANHOLE BASE SHALL BE SET ON A FIRM, DRY AND STABLE OR COMPACTED BASE FOUNDATION. IF NECESSARY, THE CONTRACTOR SHALL UTILIZE ROCK TO PROVIDE A FIRM AND SUITABLE MANHOLE BASE FOUNDATION.
4. WASTEWATER LINES SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH FPA DESIGN AND CONSTRUCTION STANDARDS. THE CONTRACTOR SHALL SUBMIT CERTIFIED DENSITY TESTS AS REQUIRED BY FPA ENGINEERING AND THE CITY ENGINEERING DEPARTMENT. IN CASES WHERE PAVED AREAS FALL WITHIN THE JURISDICTION OF LOCAL OR STATE AGENCIES, THE CONTRACTOR REQUIREMENTS SHALL NOT BE LESS THAN THE MINIMUM REQUIRED BY THE APPROPRIATE RESPONSIBLE AGENCY.
5. A 4% MINIMUM SLOPE SHALL BE MAINTAINED ON ALL SANITARY SERVICE LATERALS.
6. THE CONTRACTOR SHALL FURNISH RECORD DRAWING INFORMATION TO THE ENGINEER CONSISTING OF PIPE SIZES, LOCATION OF SERVICE TIE INS, DIAMETER OF SERVICES, LOCATION OF ANY FITTINGS, FINAL RIM AND INVERT ELEVATION OF ALL MANHOLES AND ANY OTHER PERTINENT INFORMATION NECESSARY TO LOCATE TRENCHES CONSTRUCTED UNDER THIS PROJECT.
7. MAINTAIN SIX FEET AND PREFERABLY 10 FEET HORIZONTAL DISTANCE BETWEEN WATER MAINS AND SEWER MAINS AS A MINIMUM.
8. WASTEWATER FORCE MAINS, WASTEWATER COLLECTION LINES, AND STORM SEWERS SHALL CROSS UNDER WATER MAINS UNLESS OTHERWISE SPECIFIED. MINIMUM VERTICAL CLEARANCE OF 12 INCHES BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE SHALL BE PROVIDED WHENEVER POSSIBLE. WHERE THIS MINIMUM CLEARANCE CANNOT BE MAINTAINED, THE CROSSING SHALL BE ARRANGED SO THAT THE WASTEWATER PIPE JOINTS AND THE WATER PIPE JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING AND THE WATER MAIN SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE (DIP) AT THE CROSSING. SUFFICIENT LENGTHS OF DIP MUST BE USED TO PROVIDE A MINIMUM OF 12 INCHES BETWEEN ANY TWO JOINTS. ALL JOINTS ON THE WATER MAIN WITHIN 20 FEET OF THE CROSSING MUST BE MECHANICALLY RESTRAINED. A MINIMUM VERTICAL CLEARANCE OF 8 INCHES MUST BE MAINTAINED AT ALL CROSSINGS.
9. A PRE-CONSTRUCTION CONFERENCE BETWEEN THE ENGINEER, THE CONTRACTOR AND FPA/CITY/COUNTY/FOOT SHALL BE MANDATORY PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
10. NO FIELD CHANGES OR DEVIATIONS FROM THE DESIGN SHALL BE MADE WITHOUT PRIOR APPROVAL OF THE FPA ENGINEER AND CITY/COUNTY/FOOT ENGINEER.
11. TRAFFIC CONTROL, BARRICADES, ETC., SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARDS.
12. CONTRACTOR SHALL NOTIFY FORT PIERCE UTILITIES AUTHORITY 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
13. WASTEWATER FORCE MAIN SHALL BE POLYETHYLENE GLASS CONFORMING TO AWWA C-900, AND SHALL BE CLASS 150 LBS OR 175 LBS E.O.P.
14. WASTEWATER FORCE MAIN SHALL BE GREEN IN COLOR.
15. FITTINGS SHALL BE DUCTILE IRON, CONFORMING TO AWWA/C115/A21.51 CLASS 250 MIN. AND INTERIOR EXPOSED MOUTH.
16. WASTEWATER FORCE MAIN SHALL BE MARKED BY THE USE OF CONTINUOUSLY GAUGE TRIM HOSE GREEN IN COLOR PRIMARILY ATTACHED TO THE TOP OF THE FORCE MAIN WITH LOCATOR TAPE MARKED "SEWER" ON TAPE IN ACCORDANCE WITH FPA SPECIFICATIONS.
17. MINIMUM COVER SHALL BE 38 INCHES EXCEPT AS APPROVED BY THE UTILITIES ENGINEER AND CITY/COUNTY/FOOT ENGINEER. PIPES WITH COVER LESS THAN 30 INCHES SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE.
18. EACH SERVICE LATERAL SHALL BE MARKED WITH A LOCATOR BALL AS MANUFACTURED BY SH CORPORATION OR APPROVED EQUAL AS REQUIRED BY FPA ENGINEER.
19. ALL MANHOLES SHALL HAVE SEWER RAIN GUARDS INSTALLED AS REQUIRED BY FPA ENGINEER.
20. THE CONTRACTOR SHALL COMPLY WITH THE FLORIDA TRENCH SAFETY ACT REQUIREMENTS.

WASTEWATER CONSTRUCTION NOTES
G-2
CONSTRUCTION NOTES
DATE: _____
DESIGNED BY: _____
DRAWN BY: _____
CHECKED BY: _____
SCALE: AS NOTED
DATE: 12/04/14

STANDARD SEPARATION STATEMENT FOR WATER / SEWER CONFLICTS

1. SANITARY SEWER, FORCE MAINS, AND STORM SEWERS SHOULD CROSS UNDER WATER MAINS UNLESS OTHERWISE SPECIFIED. MINIMUM VERTICAL CLEARANCE OF 12 INCHES BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE SHALL BE MAINTAINED. AT LEAST 12 INCHES OF SEPARATION BETWEEN THE WATER MAIN IS BELOW.
- WHERE SANITARY SEWER, FORCE MAINS, STORM SEWERS MUST CROSS A WATER MAIN WITH LESS THAN 8 INCHES VERTICAL SEPARATION, BOTH THE SEWER AND WATER MAIN SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE (DIP) CENTERED ON THE CROSSING. DIP IS NOT REQUIRED FOR STORM SEWERS. SUFFICIENT LENGTHS OF DIP MUST BE USED TO PROVIDE A MINIMUM SEPARATION OF 12 INCHES BETWEEN TWO JOINTS. ALL JOINTS ON THE WATER MAIN SHALL BE MECHANICALLY RESTRAINED SO THAT THE SEWER PIPE JOINTS AND WATER MAIN PIPE JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING (PIPES CENTERED ON THE CROSSING). AT SUCH CROSSINGS PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS BY WHICH SANITARY SEWER, STORM SEWERS, WASTEWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER REGULATE UNDER PART 8 OF CHAPTER 62-161, F.A.C.
- WHERE A NEW PIPE PLACED WITH AN EXISTING PIPE WITH LESS THAN 8 INCHES VERTICAL CLEARANCE, THE NEW PIPE SHALL BE CONSTRUCTED OF DIP (EXCEPT STORM SEWERS) AND NEW PIPES SHALL BE ARRANGED TO MEET THE CROSSING REQUIREMENTS ABOVE.
- A MINIMUM 3'-0" HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN ALL TYPE OF STORM SEWER AND WATER MAIN IN PARALLEL INSTALLATIONS WHENEVER POSSIBLE.
- A MINIMUM 3'-0" FOOT, AND PREFERABLY 10'-0" FOOT HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN THE SANITARY SEWER AND WATER MAIN IN PARALLEL INSTALLATIONS WHENEVER POSSIBLE.
- A MINIMUM 10'-0" FOOT HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN "DENSE SEWAGE TREATMENT AND DISPOSAL SYSTEM" AND WATER MAIN IN PARALLEL INSTALLATIONS WHENEVER POSSIBLE.
- A MINIMUM 6'-0" FOOT, AND PREFERABLY 10'-0" FOOT HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN GRAVITY OR PRESSURE TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER AND WATER MAIN IN PARALLEL INSTALLATIONS WHENEVER POSSIBLE. THE MINIMUM HORIZONTAL SEPARATION DISTANCE OF THE WATER MAIN IS AT LEAST SIX FEET ABOVE THE TOP OF THE SEWER.
- IN CASES WHERE IT IS NOT POSSIBLE TO MAINTAIN A 10'-0" FOOT HORIZONTAL SEPARATION, THE WATER MAIN MUST BE LAD IN A SEPARATE TRENCH OR ON A UNDISTURBED EARTH SURFACE LOCATED ON ONE SIDE OF THE SEWER OR FORCE MAIN AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 6 INCHES ABOVE THE TOP OF THE SEWER.
- IF IT IS NOT POSSIBLE TO MAINTAIN A VERTICAL SEPARATION OF 8 INCHES IN PARALLEL INSTALLATIONS, THE WATER MAIN SHALL BE CONSTRUCTED OF DIP AND THE SEWER OR THE FORCE MAIN SHALL BE CONSTRUCTED OF DIP (EXCEPT STORM SEWERS). THE WATER MAIN SHALL BE LAD IN A SEPARATE TRENCH OR ON A UNDISTURBED EARTH SURFACE LOCATED ON ONE SIDE OF THE SEWER OR FORCE MAIN AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 6 INCHES ABOVE THE TOP OF THE SEWER.
- ALL DIP SHALL BE PRESSURE CLASS 250 MIN. ADEQUATE PROTECTIVE MEASURES AGAINST CORROSION SHALL BE USED AS DETERMINED BY THE DESIGN ENGINEER.

STANDARD SEPARATION STATEMENT FOR WATER/SEWER CONFLICT
G-3
DATE: _____
DESIGNED BY: _____
DRAWN BY: _____
CHECKED BY: _____
SCALE: AS NOTED
DATE: 12/04/14

TYPICAL TRENCH DETAIL
M-1

NOTES:

- 1) THE CONTRACTOR SHALL COMPLY WITH REQUIREMENTS OF THE FLORIDA TRENCH SAFETY ACT.
- 2) INITIAL BACKFILL SHALL BE HAND PLACED TO 12" ABOVE THE PIPE. BACKFILL SHALL BE MECHANICALLY TAMPED TO A MINIMUM OF 100% OF TOSS OF MAX DENSITY AS DETERMINED BY ASTM METHOD T-99.

TYPICAL TRENCH DETAILS
M-1
DATE: _____
DESIGNED BY: _____
DRAWN BY: _____
CHECKED BY: _____
SCALE: AS NOTED
DATE: 12/04/14

BACKFILLING REQUIREMENTS
M-2

NOTES:

- 1) IN CERTAIN SOIL CONDITIONS A FOUNDATION MAY BE REQUIRED.
- 2) BEDDING IS REQUIRED PRIMARILY TO BRING THE TRENCH BOTTOM UP TO GRADE. BEDDING MATERIALS SHALL PROVIDE A UNIFORM AND ADEQUATE LONGITUDINAL SUPPORT UNDER THE PIPE.
- 3) MANHOLES SHALL BE HAND PLACED TO THE SPRINGLINE OF THE PIPE. MATERIAL SHALL BE CONSOLIDATED UNDER THE PIPE AND HAND TAMPED TO PROVIDE ADEQUATE SIDE SUPPORT.
- 4) INITIAL BACKFILL MATERIAL SHALL BE HAND PLACED TO 12" ABOVE THE TOP OF THE PIPE. THE SOIL SHALL BE COMPACTED TO 100% MAX DENSITY (ASTM T-99).
- 5) BACKFILL SHALL BE COMPACTED TO 100% OF MAX DENSITY AS PER ASTM T-99. A POWER TAMPOR SHALL BE USED TO COMPACT THE BEDDING MATERIAL. THE FINAL 3" OF BACKFILL SHALL BE COMPACTED TO 95% OF MAX DENSITY AS PER ASTM T-99.
- 6) DENSITY TEST SHALL BE PERFORMED AT AREAS DETERMINED BY THE UTILITIES ENGINEER UNDER AGENCY SUPERVISION AT THE CONTRACTOR'S EXPENSE.
- 7) CONTRACTOR TO COMPLY WITH ALL FEDERAL, STATE AND LOCAL TRENCH SAFETY REGULATIONS.

BACKFILLING REQUIREMENTS
M-2
DATE: _____
DESIGNED BY: _____
DRAWN BY: _____
CHECKED BY: _____
SCALE: AS NOTED
DATE: 12/04/14

UTILITY CROSSING DETAIL
M-5

NOTE:
PLEASE REFER TO FORT PIERCE UTILITIES STANDARD SEPARATION STATEMENT FOR WATER / SEWER CONFLICTS.

PAVEMENT RESTORATION
R-2

TYPICAL GATE VALVE & WEIGHTED VALVE BOX DETAIL
M-6

NOTES:

1. BLUE REFLECTIVE PAVEMENT MARKER (RPM) FOR WATER VALVES AND GREEN RPM FOR WASTEWATER VALVES. PAVEMENT EDGE.
2. FOR WATER AND WASTEWATER VALVES INSTALLED IN PAVED AREAS, ELIMINATE CONCRETE PAD AND ENCASE THE MAGNETIC WIRE IN 1/2" PVC INSIDE THE VALVE BOX SEVEN INCHES BELOW GRADE.
3. DIP MAY BE USED AS INVERT ONLY IF A VALVE BOX IS NOT MANUFACTURED FOR THAT PURPOSE AND THE RISERS SHALL BE USED IN ANY CIRCUMSTANCES.

PAVEMENT RESTORATION DETAIL WITH TRENCH CITY REQUIREMENTS
R-3

JACK & BORE DETAIL
M-7

NOTES:

- 1) CASING INSULATORS SHALL BE MADE WITH SPECIAL RUNNER HEIGHTS SO AS NOT TO INTERFERE WITH PIPE JOINTS.
- 2) ALL CARRIER PIPES MUST BE MECHANICALLY RESTRAINED JOINTS.
- 3) INSULATOR SPACING SHALL AS REQUIRED BY THE MANUFACTURER, HOWEVER, NO LESS THAN THREE (3) CASING INSULATORS SHALL BE INSTALLED FOR LENGTH OF PIPE.
- 4) CASING LENGTH SHALL EXTEND A MINIMUM OF 8 FEET BEYOND THE EDGE OF PAVEMENT OR CURBING.

FLEXIBLE PAVEMENT REPLACEMENT DETAIL
R-4

TRACE WIRE DETAIL
M-11

NOTES:

- 1) TRACE WIRE IS REQUIRED ON ALL PIPE AS NOTED BY UTILITIES ENGINEER AND SHOWN IN STANDARD DETAILS.
- 2) INCLUDE ALL COST OF MATERIAL & LABOR IN PRICE OF PIPE.
- 3) CONTRACTOR IS RESPONSIBLE FOR CONTINUITY OF ALL TRACE WIRE.

WASTEWATER SERVICE PLACEMENT
S-1

GENERAL POLICY

WHERE COST JUSTIFIED AND OPERATIONALLY FEASIBLE IT IS THE GENERAL POLICY OF THE F.P.U.A. TO PROVIDE WATER, ELECTRIC, SEWER AND GAS SERVICE FROM THE STREET SIDE OF A PIECE OF PROPERTY. DEPENDING ON FACTORS SUCH AS LOCATION OF EXISTING SUPPLY SOURCE FACILITIES, SEAM OR USE OF LOT LINE SUPPLY MAY BE AUTHORIZED, BUT ONLY WITH PRIOR APPROVAL FROM THE F.P.U.A.

NOTES:

- 1) HORIZONTAL SEPARATION OF WATER AND WASTEWATER SERVICES SHOULD BE A MINIMUM OF SIX FEET AND PREFERABLY 10 FEET.
- 2) THE WASTEWATER LATERAL SHALL BE LOCATED WITHIN RIGHT-OF-WAY AND TERMINATE AT THE PROPERTY LINE.
- 3) THE F.P.U.A. SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND REPAIR OF THE WASTEWATER LATERAL WITHIN THE EASEMENT OR RIGHT-OF-WAY, UP TO THE POINT OF CONNECTION.

DRIVEWAY RESTORATION
R-1

NOTES:

- 1) ALL DRIVEWAYS SHALL BE REPLACED WITH MATERIAL OF THE SAME TYPE AND COMPOSITION AS THE MATERIAL REMOVED TO THE LIMITS OF THE EXISTING DRIVE.
- 2) ALL CONCRETE DRIVEWAYS SHALL BE 6" THICK, 4000 PSI, 10% TO 12% SAND OR OTHER APPROVED MATERIAL COMPACTED TO 95% MAXIMUM DENSITY.
- 3) ALL ASPHALT DRIVEWAYS SHALL BE 4" THICK, 1000 PSI, 10% TO 12% SAND OR OTHER APPROVED MATERIAL COMPACTED TO 95% MAXIMUM DENSITY.
- 4) SAND-CUT AND REMOVE ALL EXISTING DRIVEWAYS TO LIMITS AND REPLACE TO SAME GRADE AS EXISTING DRIVEWAY.
- 5) SOIL IN MINIMUM OUTSIDE OF EDGE OF REPLACED DRIVEWAY AND ALL DISTURBED AREAS.
- 6) ROCK/SHELL AND DIRT DRIVEWAYS SHALL BE COMPACTED TO 95% MAXIMUM DENSITY PER ASTM T-99. ROCK/SHELL SHALL BE 3/4" INCHES COMPACTED DEPTH.
- 7) CONTRACTOR SHALL REPLACE ALL DRIVEWAYS IN HAND IN ACCORDANCE WITH THIS DETAIL. THE RESTORATION OF THE ST. LUCIE COUNTY STANDARDS, UNLESS OTHERWISE NOTED.
- 8) NEW DRIVEWAYS SHALL BE SLOPED IN A WAY THAT WILL NOT ALLOW PONDING OF STORM WATER.
- 9) CONTRACTOR SHALL DISPOSE OF ALL REMOVED MATERIAL IN A SUITABLE FASHION IN ACCORDANCE WITH ALL CITY, COUNTY AND STATE REGULATIONS.
- 10) FOR ASPHALT DRIVEWAYS, THE BASE SHALL EXTEND SIX INCHES BEYOND THE ASPHALT OVERLAY.
- 11) ALL REPLACEMENT DRIVEWAYS SHALL BE CONSTRUCTED WITH A FOOTING PARALLEL TO THE ROADWAY. FOOTING SHALL BE A MINIMUM 6" DEEP AND 8" WIDE FOR THE ENTIRE LENGTH OF THE DRIVEWAY FOOTING.
- 12) ALL ASPHALT DRIVEWAYS SHALL BE OVERLAPPED WITH THE LIMITS OF THE RIGHT-OF-WAY.

SERVICE CONNECTION
S-2

NOTES:

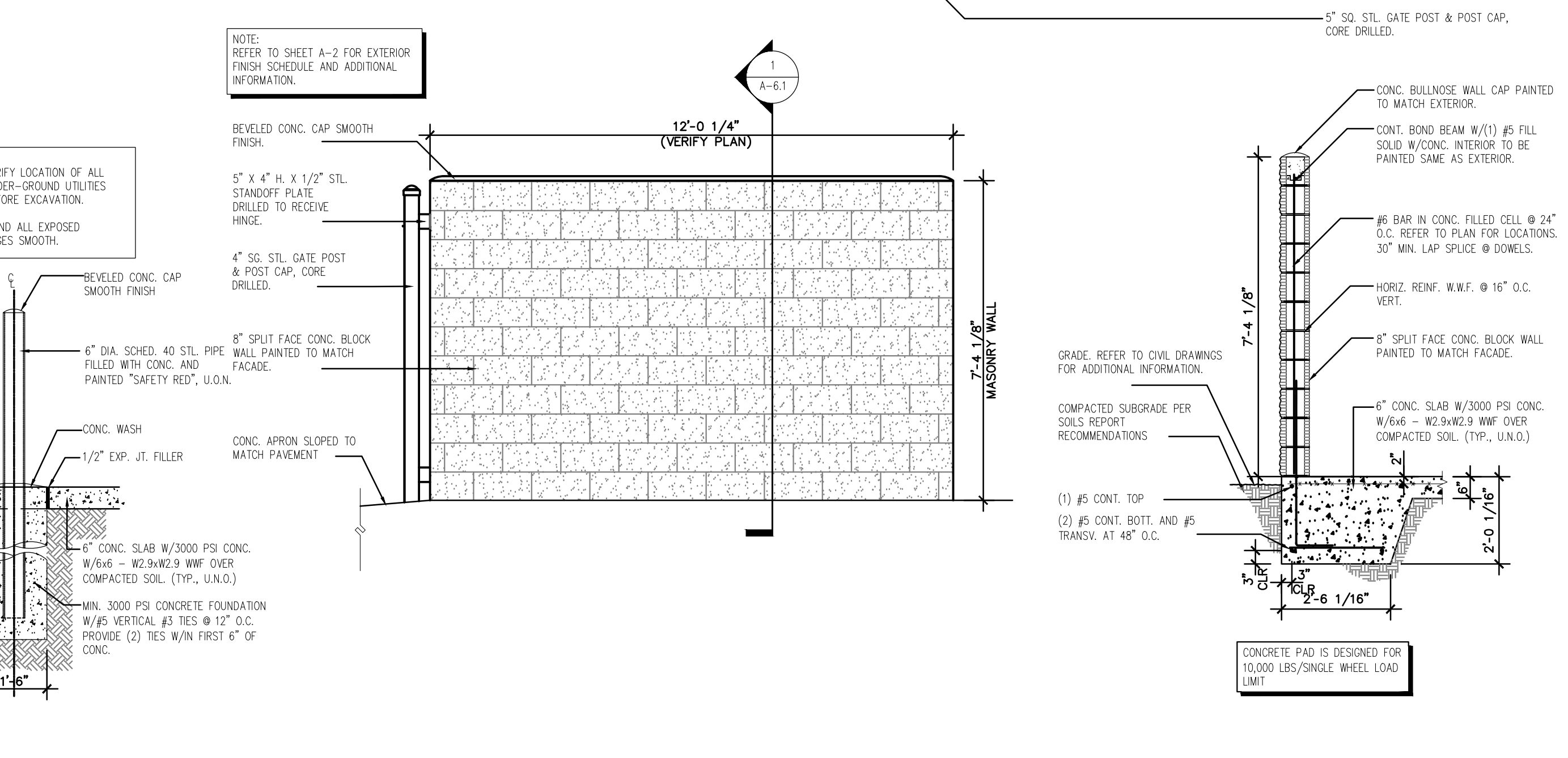
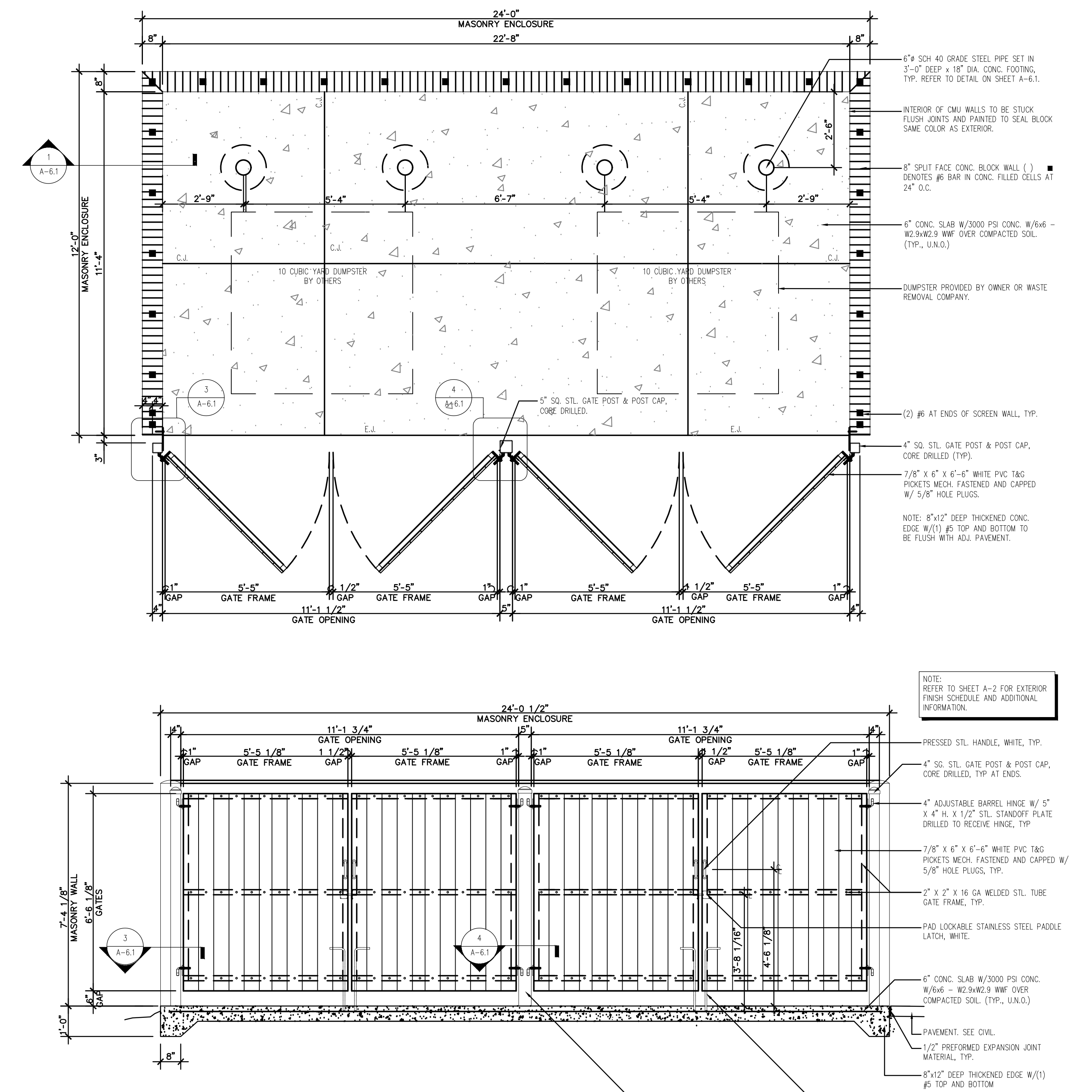
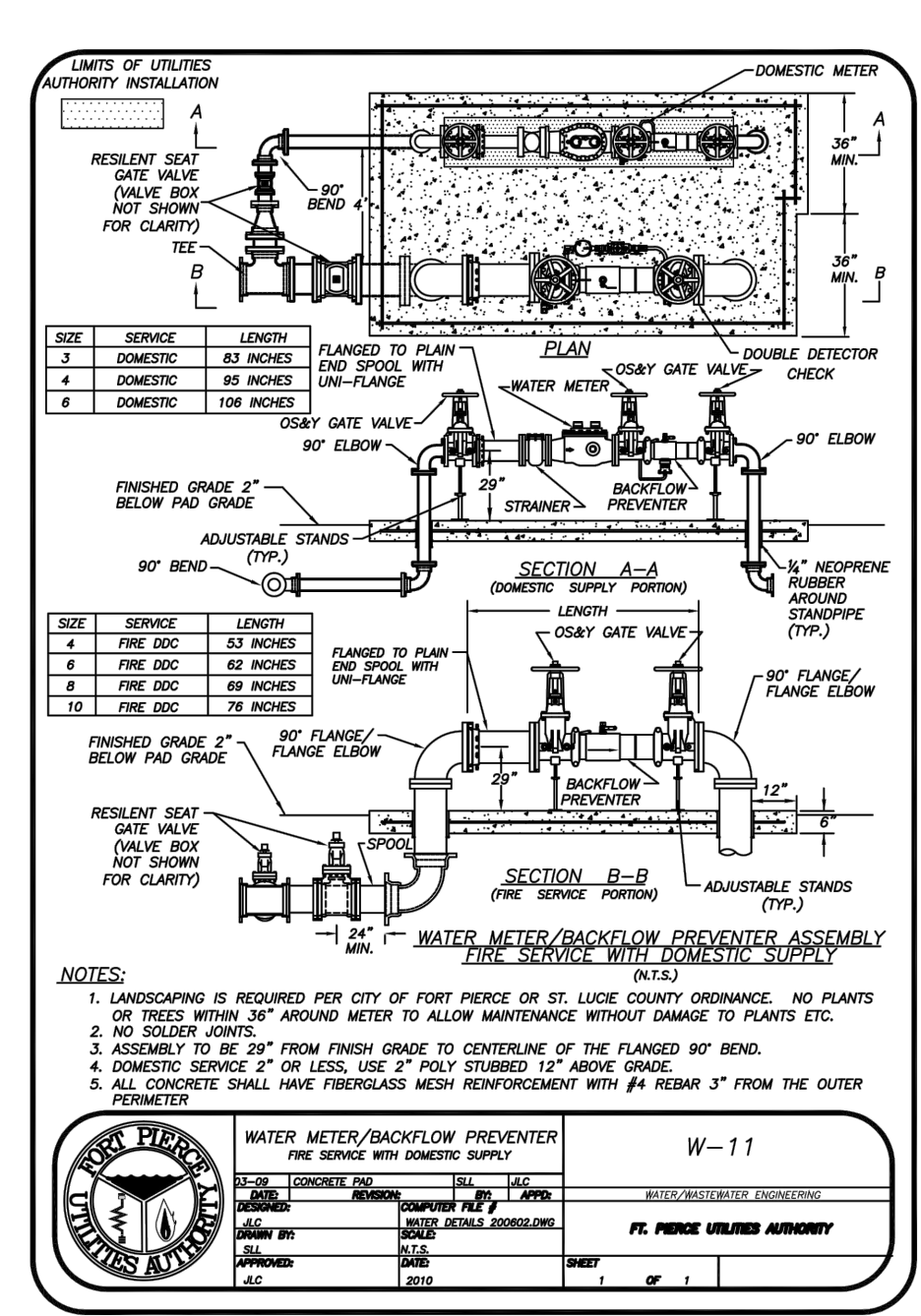
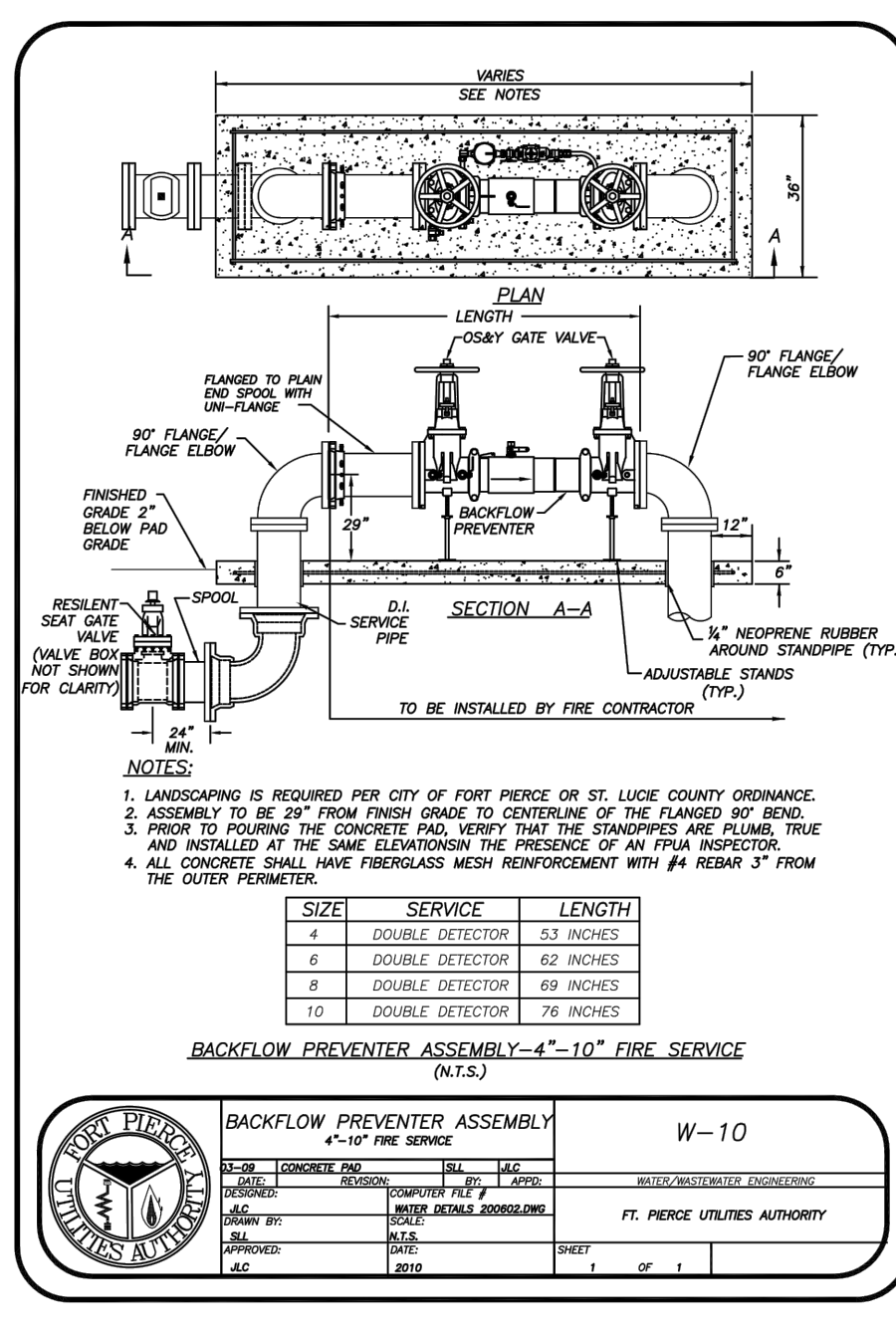
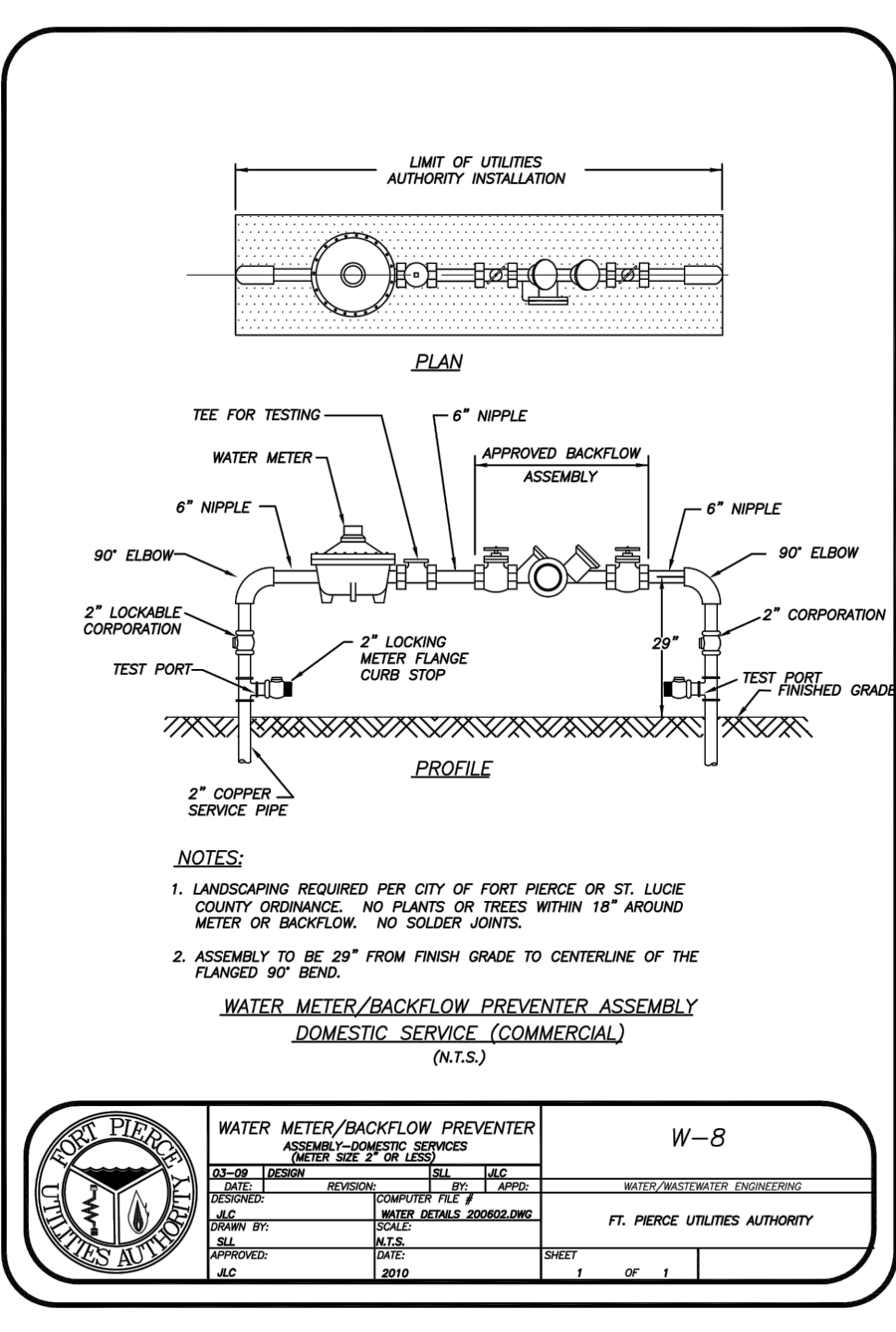
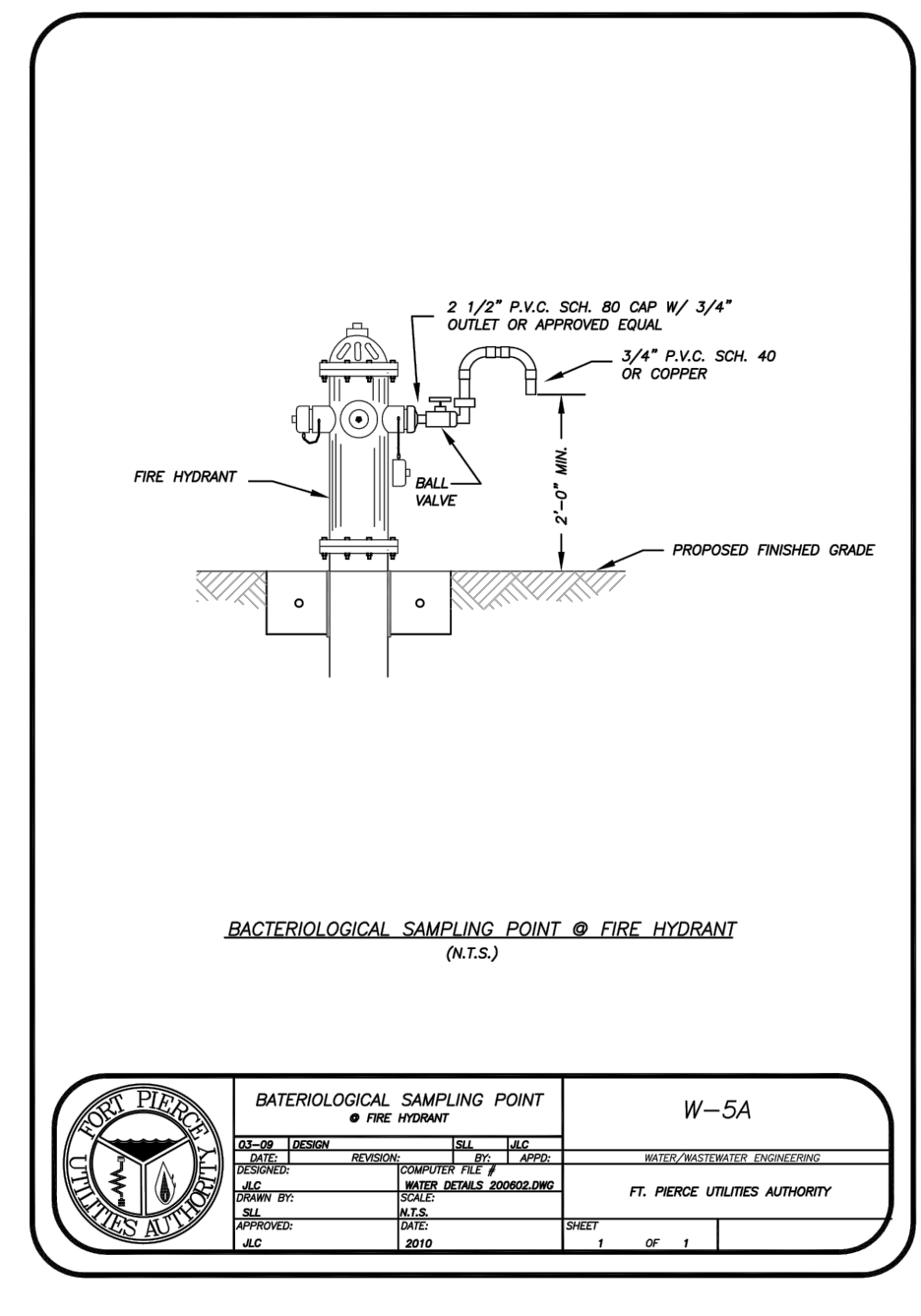
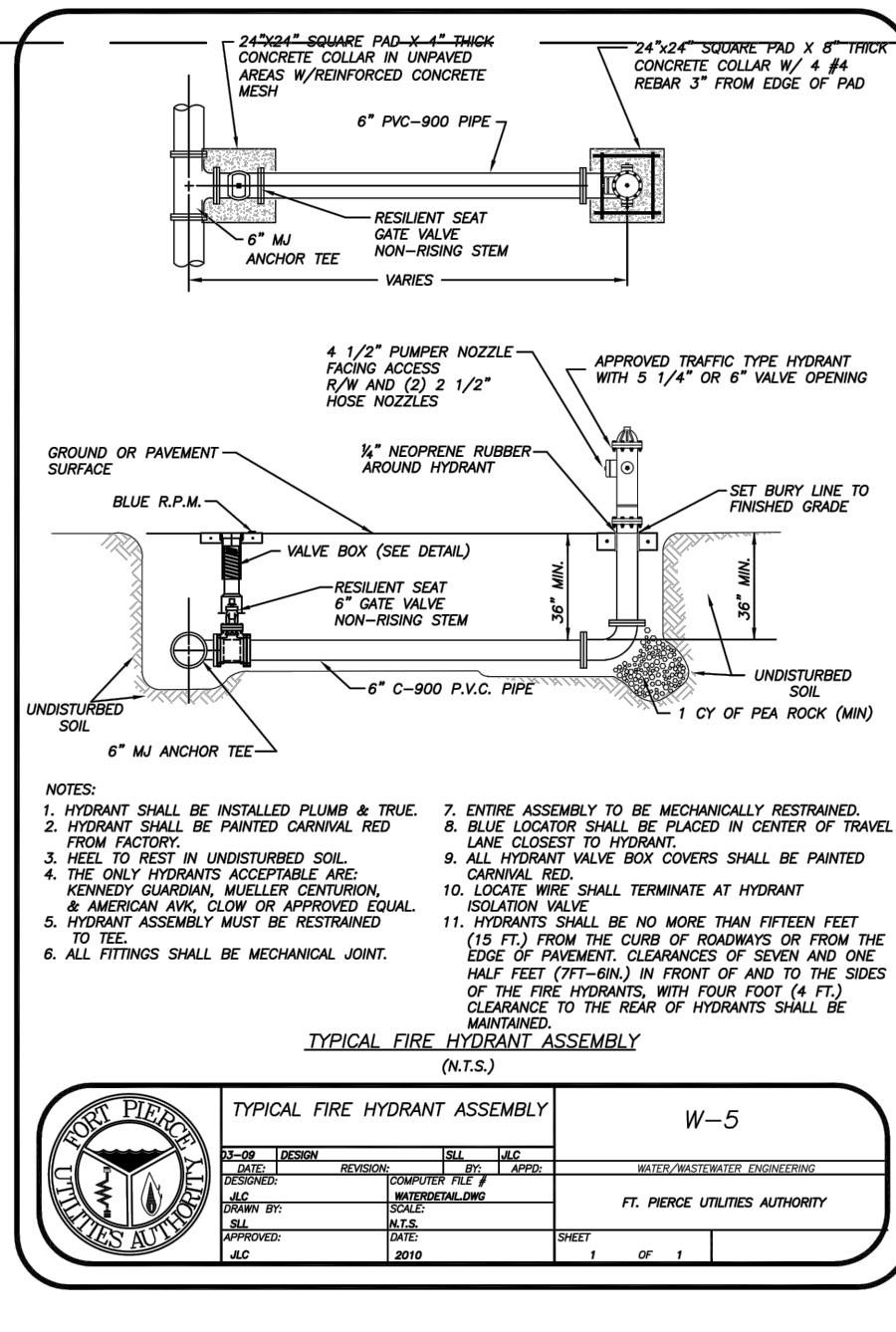
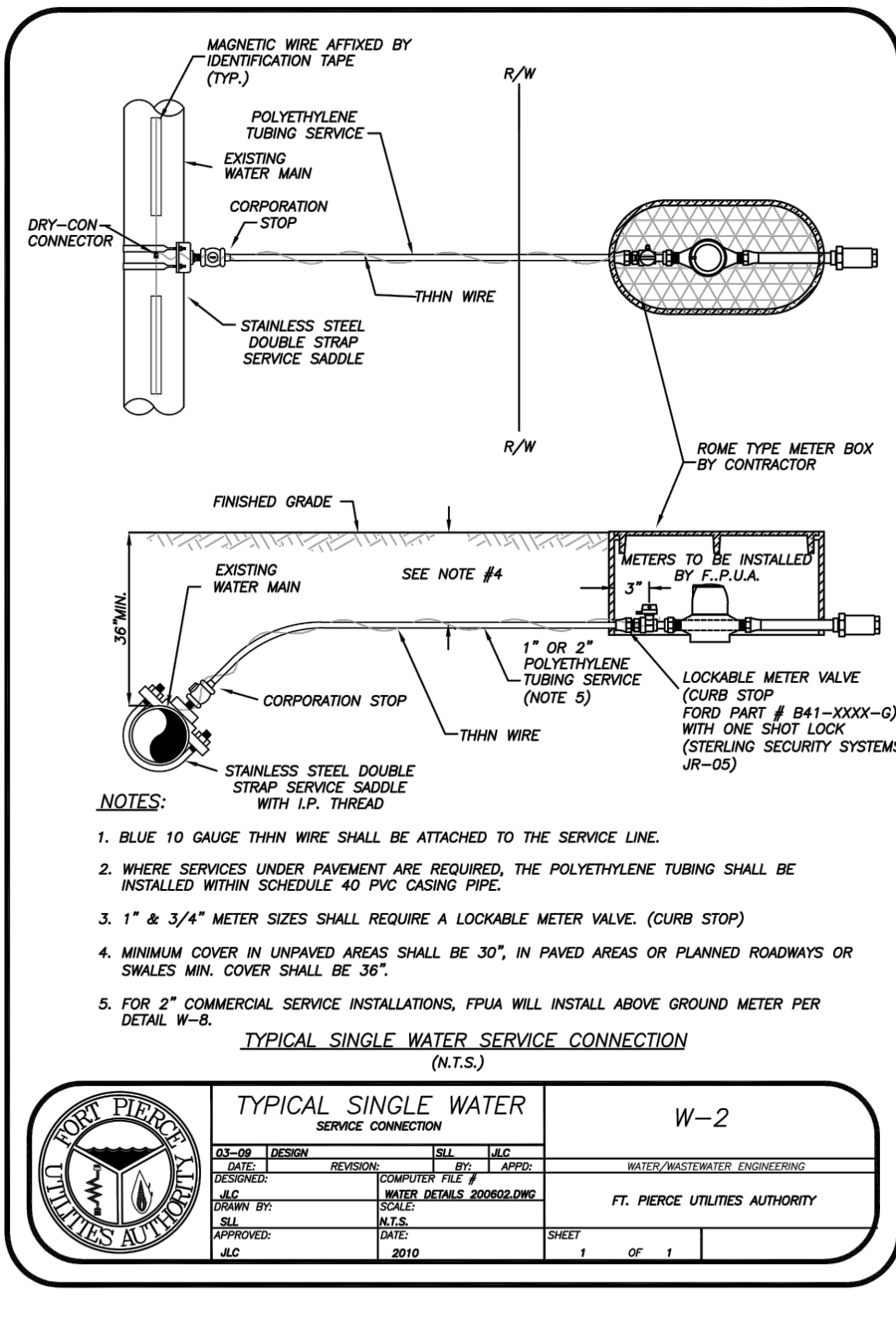
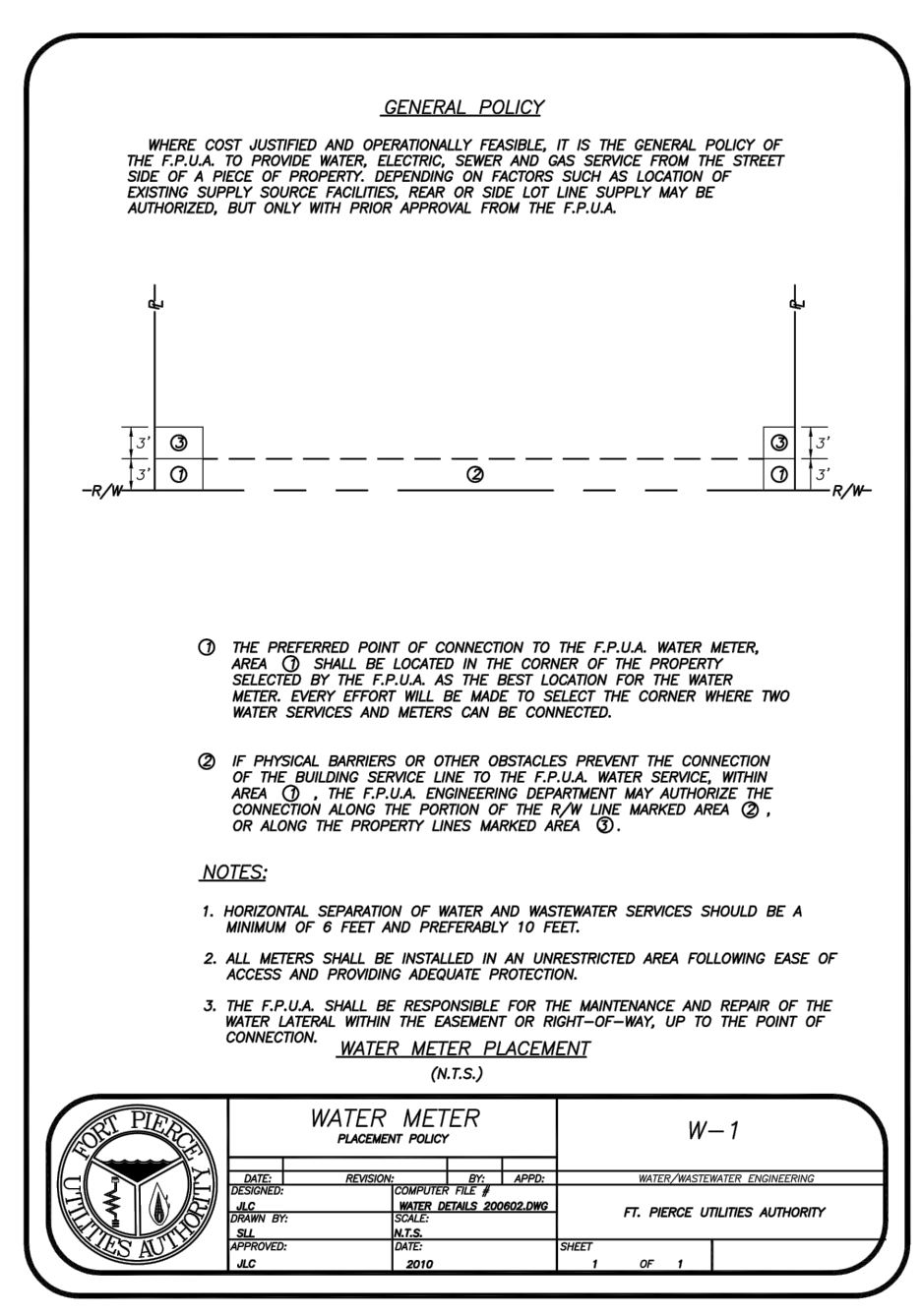
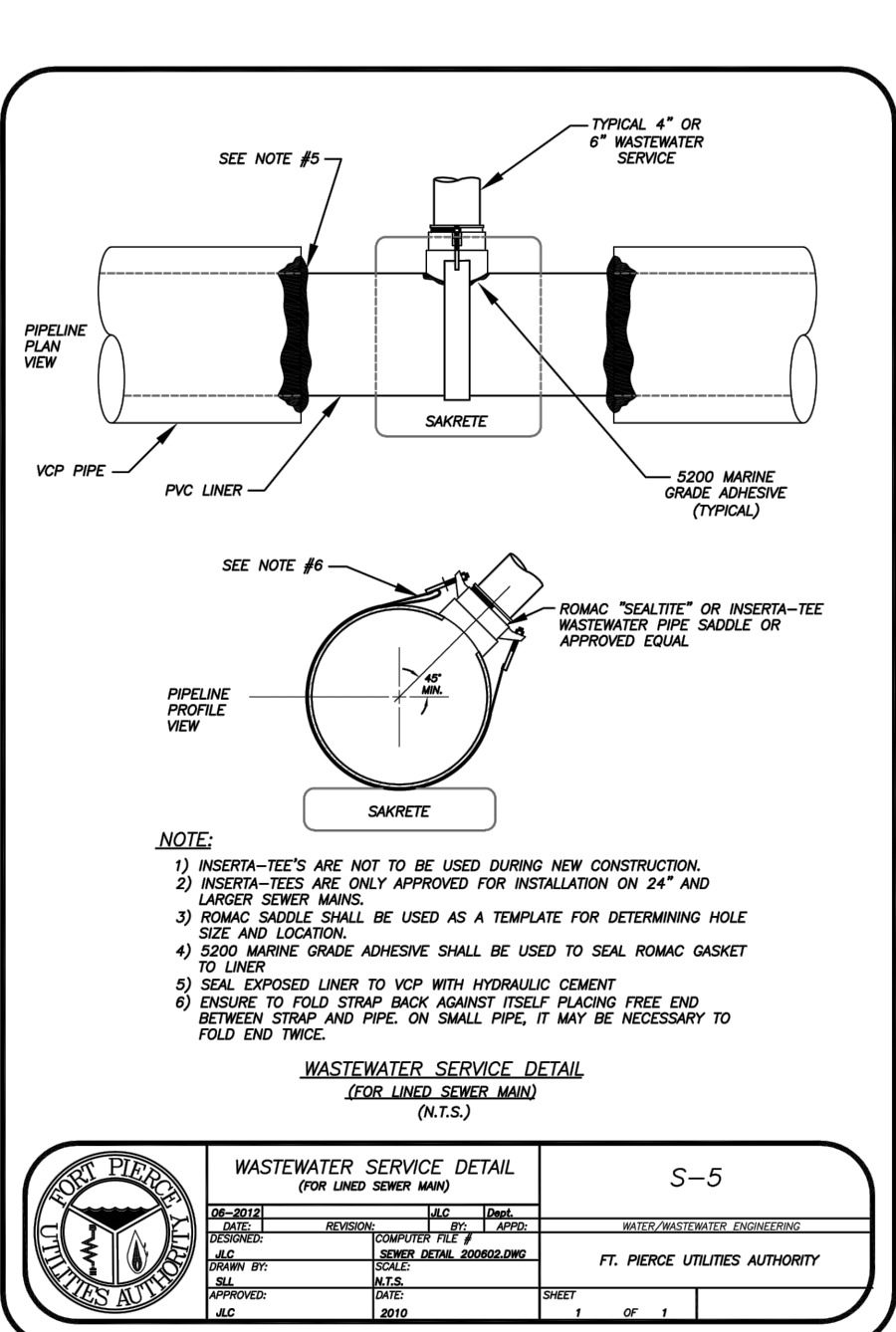
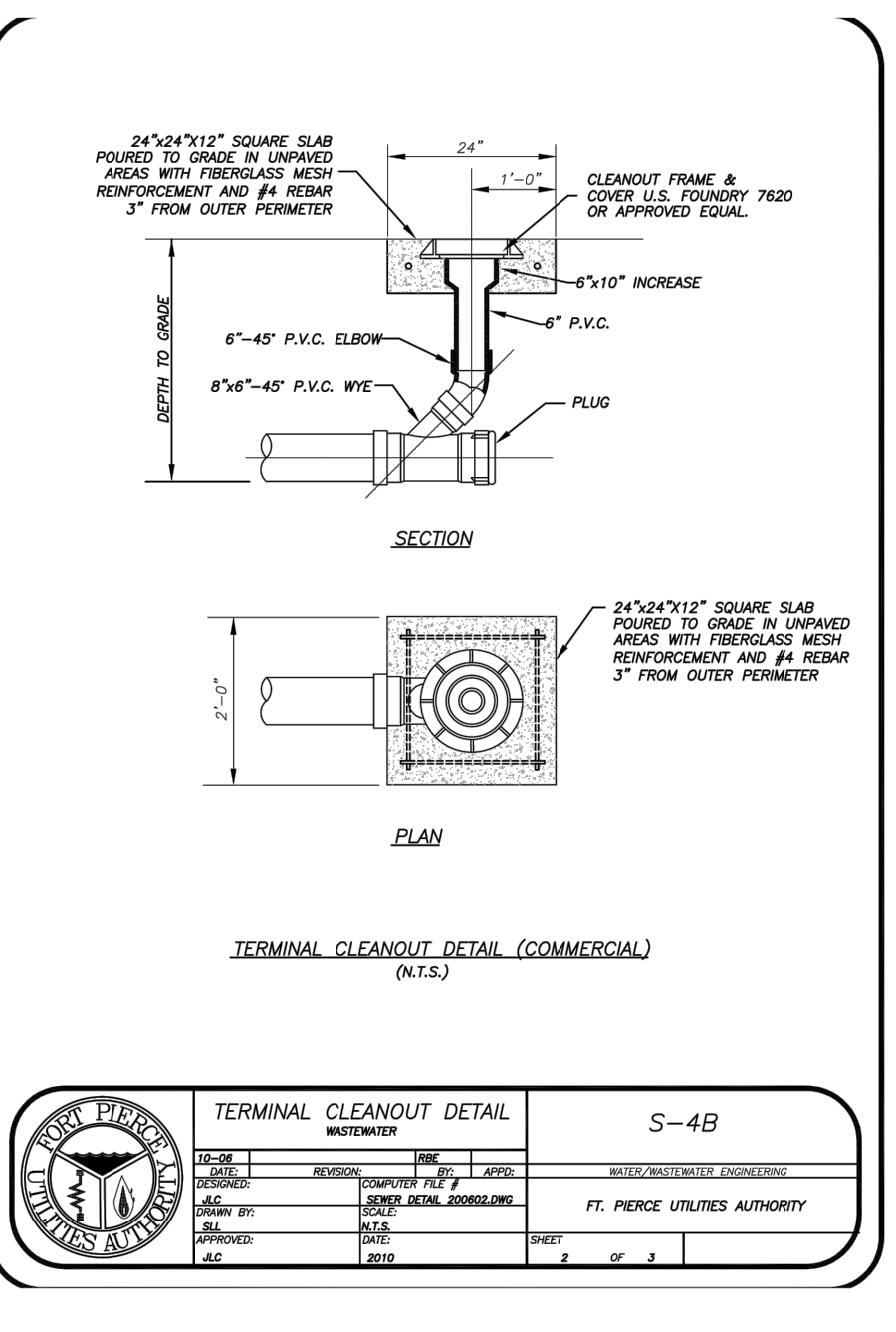
- 1) BALL TEST WASTEWATER LOCATOR BY 3M CORP. OR APPROVED EQUAL.
- 2) MINIMUM SLOPE OF 1/8" PER FOOT, USE GREATER SLOPE WHERE POSSIBLE.
- 3) SERVICE LATERAL SHALL TERMINATE WITH A CLEANOUT.
- 4) INSTALL CLEANOUT AT THE PROPERTY LINE. REFER TO DETAIL S-1 FOR SPECIFIC PROPERTY LAYOUT.

SCHULKE, BITTLE & STODDARD, L.L.C.
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ST. ANDREW'S EPISCOPAL ACADEMY
FORT PIERCE, FLORIDA

ENGINEER CERTIFICATION
 JOSEPH W. SCHULKE
FL. REG. NO. 47048
 JOHNN B. BITTLE
FL. REG. NO. 57396
 WILLIAM P. STODDARD
FL. REG. NO. 57605

DATE: _____
SHEET 10
PROJECT NO. 14-045



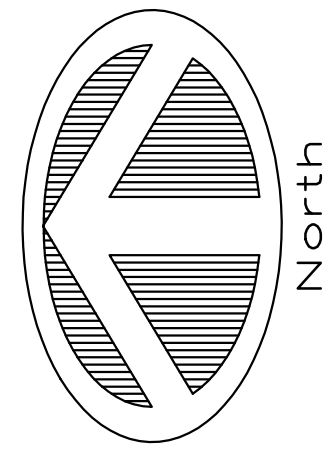
SCHULKE, BITTLE & STODDARD, L.L.C.
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MISCELLANEOUS DETAILS & SPECIFICATIONS

ST. ANDREW'S EPISCOPAL ACADEMY
FORT PIERCE, FLORIDA

ENGINEER CERTIFICATION

DATE: SHEET 11 PROJECT NO. 14-045



GRAPHIC SCALE



(IN FEET)
1 inch = 30 ft.



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AERIAL

ST. ANDREW'S
 EPISCOPAL ACADEMY
 FORT PIERCE, FLORIDA

ENGINEER CERTIFICATION
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 FL. REG. NO. 47048
 ADAM S. BITTLE
 FL. REG. NO. 57396
 WILLIAM P. STODDARD
 FL. REG. NO. 57605

DATE: _____
 SHEET
 12
 PROJECT NO.
 14-045

REVISION	REASON	DATE
1	REVISIONS PER COMMENTS	1/14/2019
DESIGNED W.P.S.	DESIGNED W.P.S.	
DRAWN W.A.C.	DRAWN W.A.C.	
CHECKED W.P.S.	CHECKED W.P.S.	
SCALE 1"=30'	SCALE 1"=30'	
DATE 12/04/14	DATE 12/04/14	