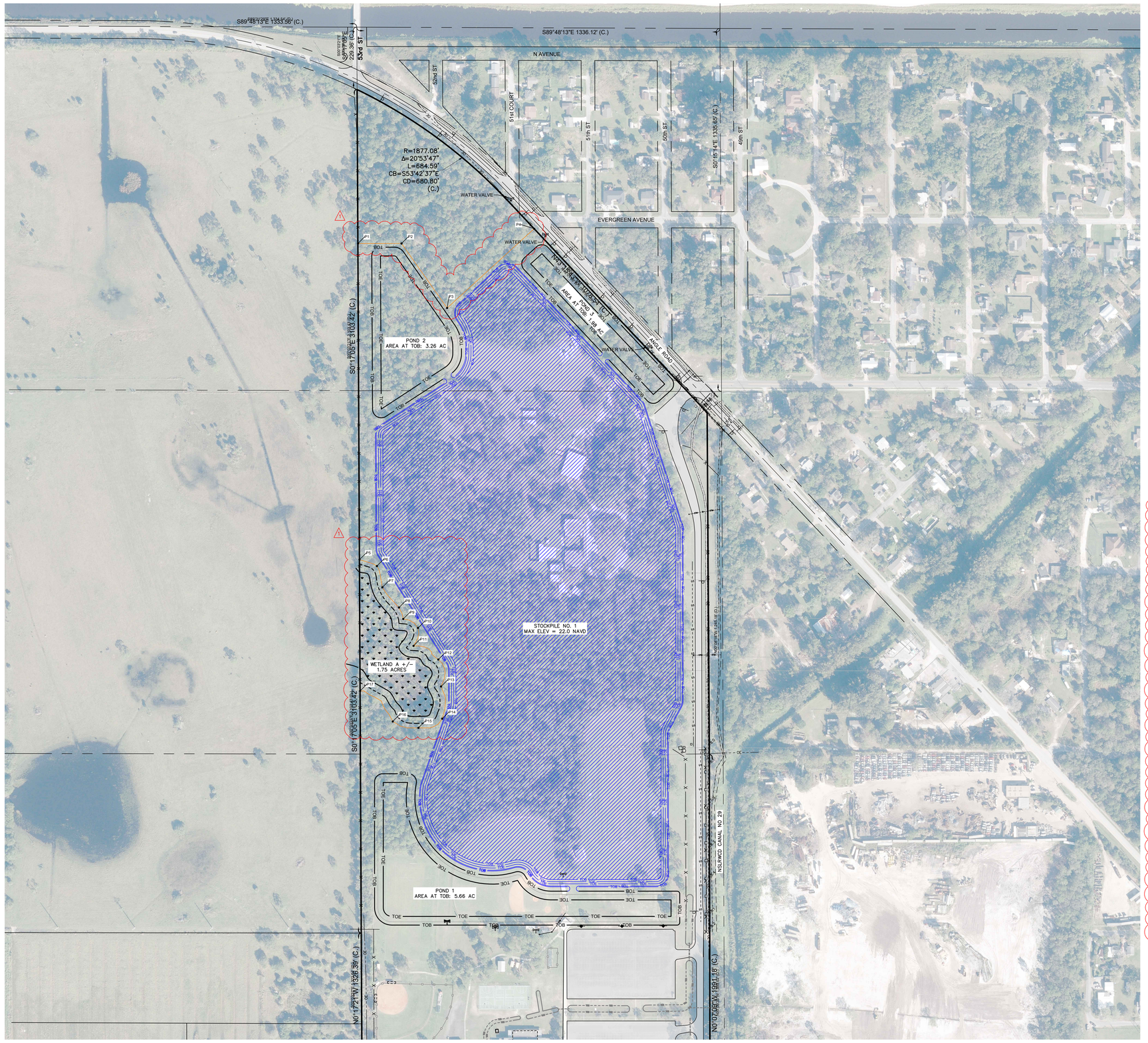

GRAPHIC SCALE

150 0 75 150

(IN FEET)

1 inch = 150 ft.

LEGEND

- PROPOSED STOCKPILE TOP
- STOCKPILE 1 AREA
- TOB — PROPOSED TOP OF BANK
- TOE — PROPOSED TOE OF SLOPE
- ORANGE CONSTRUCTION BARRIER

NOTES:

1. *CLEARED AREA: 60.34 ACRES*
2. *NO EXCAVATED MATERIAL IS TO BE HAULED OFFSITE.*
3. *ORANGE CONSTRUCTION BARRIER TO BE A MINIMUM HEIGHT OF 4 FT. TO BE INSTALLED PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES AND REMAIN IN PLACE UNTIL DIRECTED BY ENGINEER*

TABLE 1:

LATITUDE & LONGITUDE FOR ORANGE CONSTRUCTION BARRIER POINTS

POINT #	LATITUDE	LONGITUDE
1	27.4673	-80.3785
2	27.4673	-80.378
3	27.4667	-80.3775
4	27.4675	-80.3765
5	27.4641	-80.3785
6	27.4641	-80.3783
7	27.4638	-80.3782
8	27.4636	-80.3781
9	27.4635	-80.378
10	27.4634	-80.3778
11	27.4632	-80.3779
12	27.4631	-80.3776
13	27.4628	-80.3776
14	27.4625	-80.3776
15	27.4624	-80.3778
16	27.4625	-80.3781
17	27.4628	-80.3785

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1	ADDENDUM NO.1	08/03/2023

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OVERALL GRADING PLAN

C100

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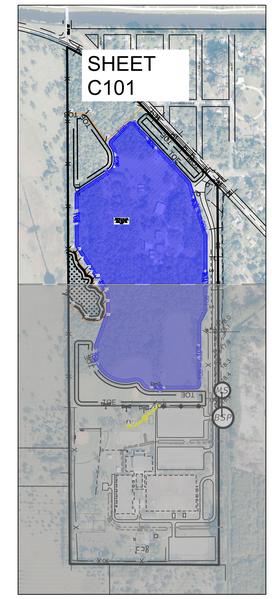

KEY MAP

GRAPHIC SCALE
80 0 40 80
(IN FEET)
1 inch = 80 ft.

LEGEND

PROPOSED INFRASTRUCTURE TO BE DEMOLISHED

APPROXIMATE OVERALL CLEARING AREA (INCLUDING EXCAVATION)

NOTES:
1) ALL ELEVATIONS AND BENCHMARKS SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM (N.A.V.D.) OF 1988.
2) THE CONTRACTOR IS RESPONSIBLE FOR PRIVATE UTILITY LOCATES WITHIN THE PROJECT/CLEARING AREA. ANY PRIVATE UTILITIES ON-SITE THAT DO NOT SERVE OR SUPPORT THE OPERATION OF THE EXISTING SCHOOL ARE TO BE DISCONNECTED AND REMOVED.
3) NO INFRASTRUCTURE WITHIN THE ANGLE ROAD RIGHT-OF-WAY IS TO BE REMOVED OR DISTURBED.
4) EXISTING INFRASTRUCTURE SHOWN ON THIS PLAN IS APPROXIMATE AND MAY BE BASED ON RECORD DRAWINGS THAT WERE NOT GEOLOCATED. ALL UNDERGROUND INFRASTRUCTURE IS TO BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO REMOVAL.

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SITE DEMOLITION PLAN

C101

C101	SITE DEMOLITION PLAN

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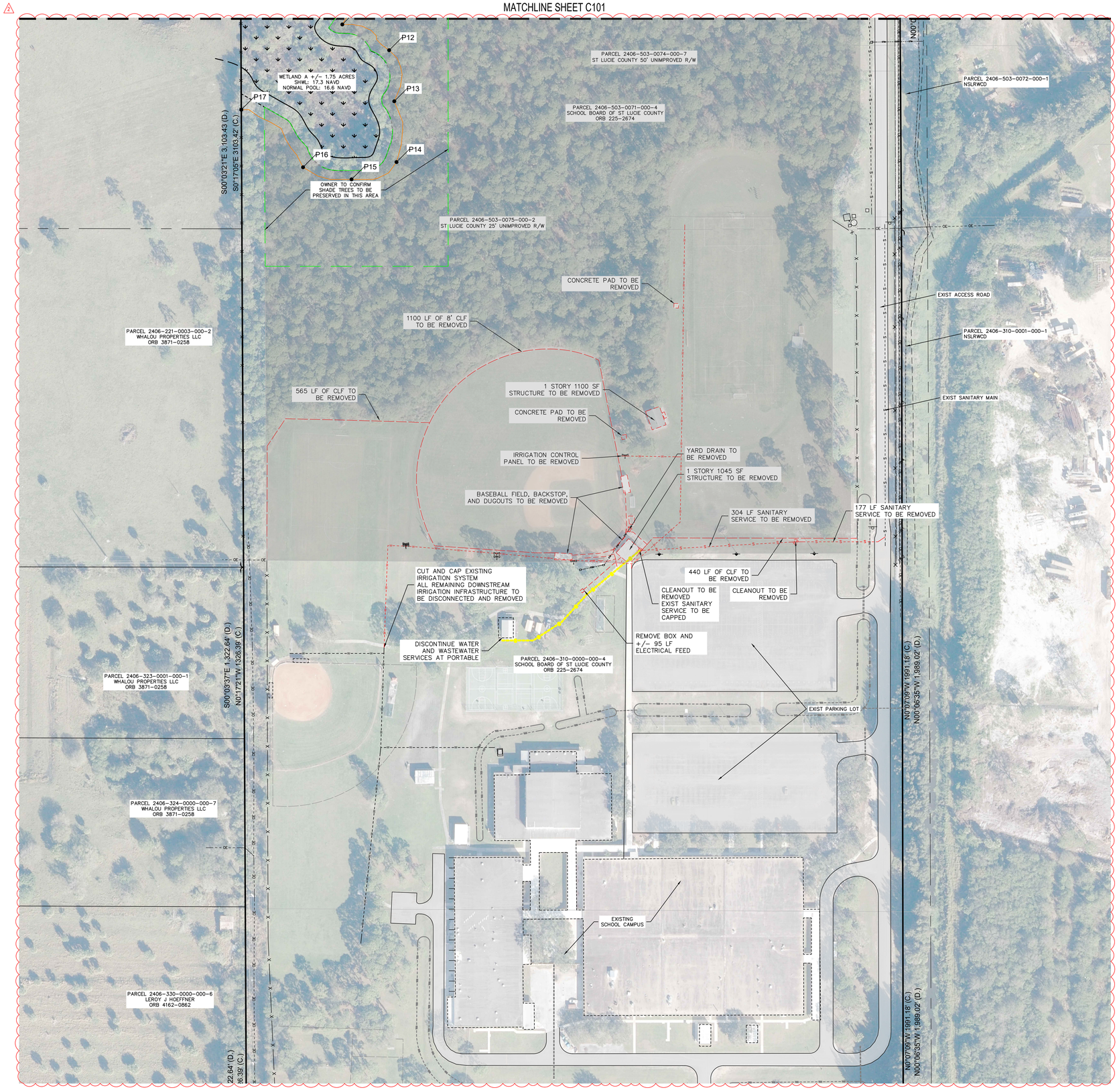

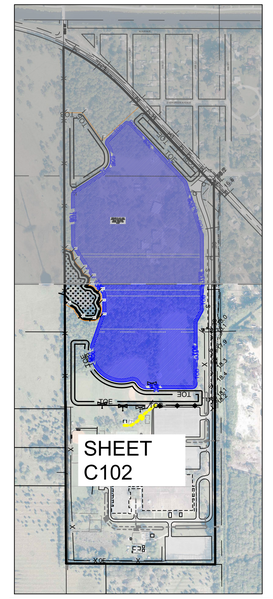

KEY MAP

GRAPHIC SCALE
80 0 40 80
(IN FEET)
1 inch = 80 ft.

LEGEND

- PROPOSED INFRASTRUCTURE TO BE DEMOLISHED
- APPROXIMATE OVERALL CLEARING AREA (INCLUDING EXCAVATION)

NOTES:
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C102	SITE DEMOLITION PLAN

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SITE DEMOLITION PLAN

C102

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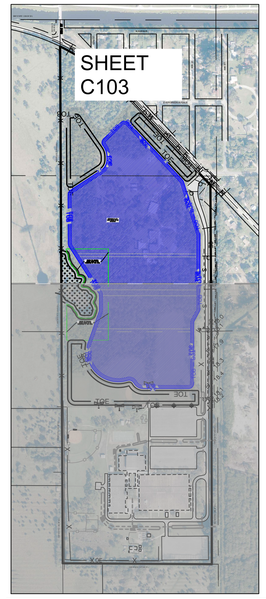
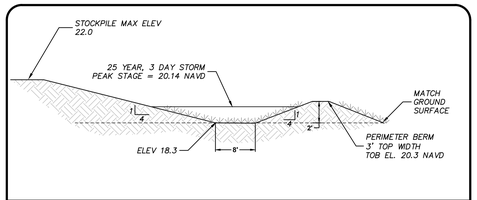


KEY MAP

GRAPHIC SCALE
80 0 40 80
(IN FEET)
1 inch = 80 ft.

LEGEND

- PROPOSED STOCKPILE TOP
- STOCKPILE 1 AREA
- TOB — PROPOSED TOP OF BANK
- TOE — PROPOSED TOE OF SLOPE



STOCKPILE 1 PERIMETER RETENTION SWALE TYPICAL
NOT TO SCALE

NOTES:
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MASS GRADING PLAN

C103

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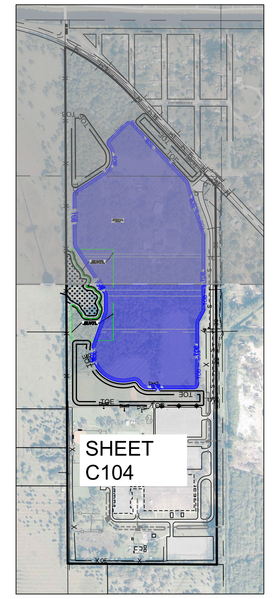

KEY MAP

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LEGEND

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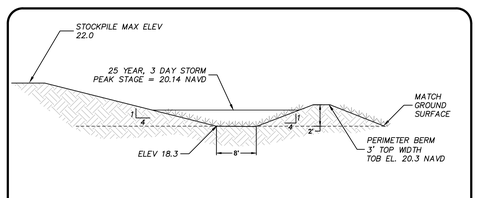

STOCKPILE 1 PERIMETER RETENTION SWALE TYPICAL
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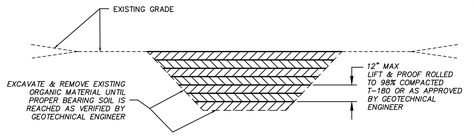
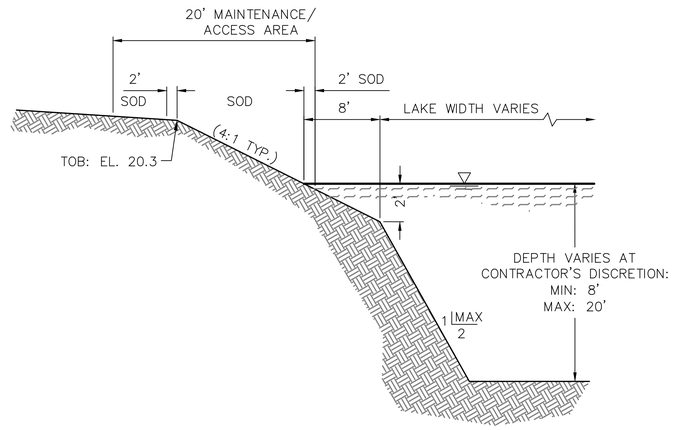
MASS GRADING PLAN

C104



TYPICAL FILL & COMPACTION DETAIL
NOT TO SCALE



TYPICAL LAKE BANK SECTION
NOT TO SCALE

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C105 DETAILS

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FORT PIERCE WESTWOOD ACADEMY

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St. Lucie PUBLIC SCHOOLS

St. Lucie Public Schools
9461 Brandywine Ln
Port St. Lucie, FL 34986

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DETAILS

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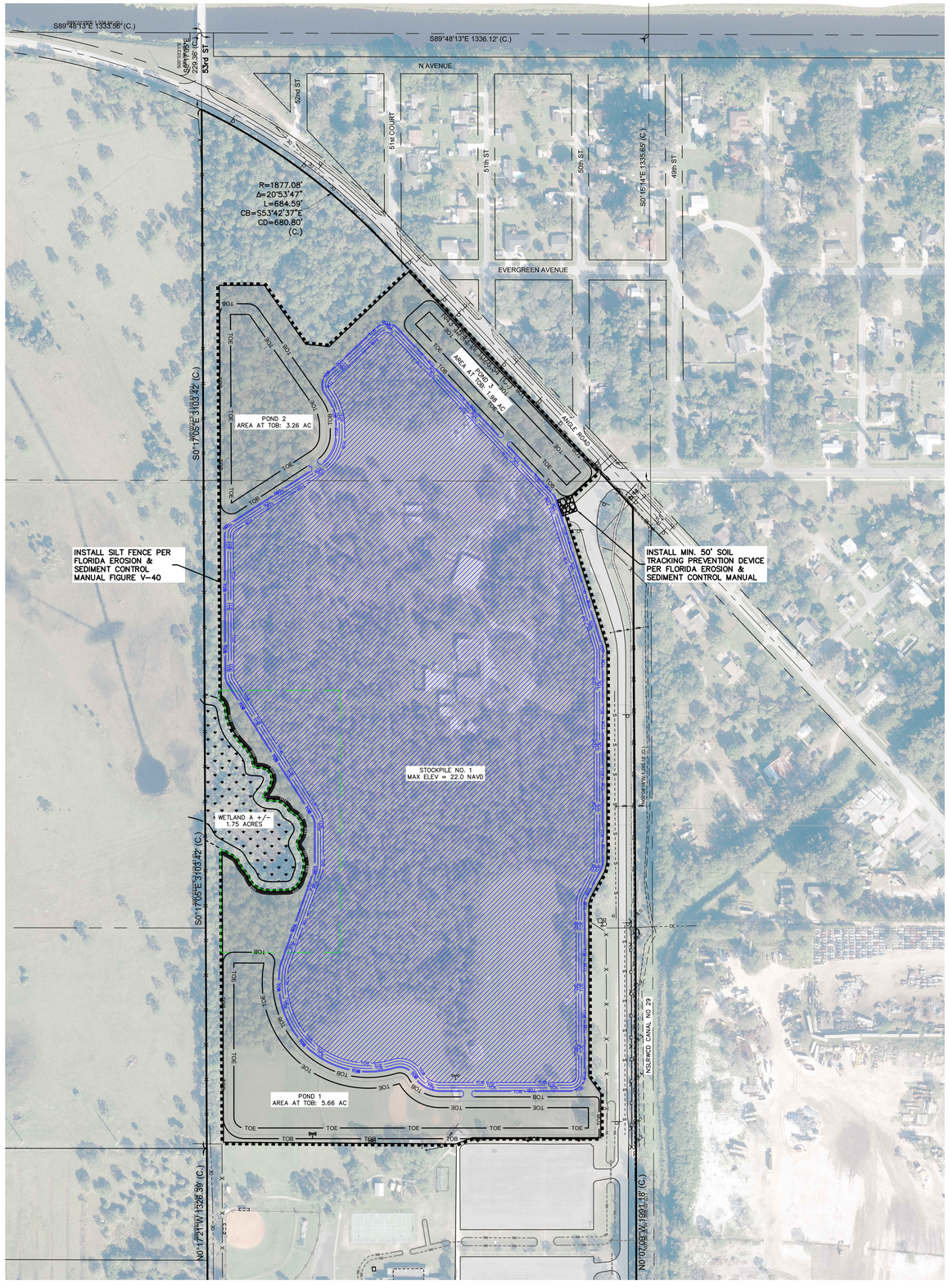

GRAPHIC SCALE

150 0 75 150

(IN FEET)

1 inch = 150 ft.

LEGEND

PROPOSED SILT FENCE

APPROXIMATE OVERALL CLEARING AREA (INCLUDING EXCAVATION)

NOTES:

1. *THE TOTAL AREA TO BE CLEARED, INCLUDING AREAS DESIGNATED FOR STROMWATER POND EXCAVATION, IS 60.34 ACRES.*
2. *THE PROPERTY OWNER, CONTRACTOR, AND AUTHORIZED REPRESENTATIVES SHALL PROVIDE PICKUP, REMOVAL, AND DISPOSAL OF LITTER WITHIN THE PROJECT LIMITS.*

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EROSION & SEDIMENT CONTROL PLAN

C106

C106 | EROSION & SEDIMENT CONTROL PLAN

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Section 1	Project Name and location information:	Westwood High School
Section 2	Describe the nature of the construction activity:	Pond Excavation, Stockpiling, and Misc Drainage Improvements
Section 3	Describe the intended sequence of major soil disturbing activities:	Site clearing and grubbing, excavation, fill placement in designated stockpile areas
Section 4	Total area of the site:	60.34 Acres
Section 5	Total area of the site to be disturbed:	60.34 Acres
Section 6	Existing data describing the soil or quality of any stormwater discharge from the site:	The existing soils are Lawnwood and Myakka Sands, Pineda Sand, Wabassa Sand, and Winder Sand.
Section 7	Estimate the drainage area size for each discharge point:	There will be no discharge from the site. A recharge trench is proposed at the perimeter of Wetland A which will receive only enough water to maintain appropriate levels in the existing wetland.
Section 8	Latitude and longitude of each discharge point and identify the receiving water or MS4 for each discharge point:	N/A
Section 9	Give a detailed description of all controls, Best Management Practices (BMPs) and measures that will be implemented at the construction site for each activity identified in the intended sequence of major soil disturbing activities section. Provide time frames in which the controls will be implemented. NOTE: All controls shall be consistent with performance standards for erosion and sediment control and stormwater treatment set forth in s. 62-40.432, F.A.C., the applicable Stormwater or Environmental Resource Permitting requirements of the Department or a Water Management District, and the guidelines contained in the State of Florida Erosion and Sediment Control Designer and Reviewer Manual, FDOT, FDEP, and any subsequent amendments.	
	• Prior to clearing, a silt fence (trenched 6 inches deep and backfilled on the uphill side), may be installed as required. Floating turbidity barrier will be installed to the limits of soil disturbance along the shoreline. • Disturbed portions of the site where construction activities have permanently ceased shall be stabilized with sod or other permanent stabilization methods no later than 60 days after the last construction activity. • All installation shall be commenced as depicted on the attached site map and installation "typicals".	
Section 10	Describe all temporary and permanent stabilization practices. Stabilization practices include temporary seeding, mulching, permanent seeding, geotextiles, sod stabilization, vegetative buffer strips, protection of trees, vegetative preservations, etc.	
	• Grassing/sod or mulch shall be used to stabilize all disturbed areas.	
Section 11	Describe all structural controls to be implemented to divert stormwater flow from exposed soils and structural practices to store flows, retain sediment on-site or in any other way limit stormwater runoff. These controls include silt fences, earth dikes, diversions, swales, sediment traps, check dams, subsurface drains, pipe slope drains, level spreaders, storm drain inlet protection, rock outlet protection, reinforced soil retaining systems, gabions, coagulating agents and temporary or permanent sediment basins.	
	• Perimeter silt fence is being proposed at this time and the erosion control within the existing canal will be addressed by installing turbidity barriers as indicated on the erosion control plan. The contractor may elect to install silt fence in localized areas of concern during the course of the project.	
Section 12	Describe all sediment basins to be implemented for areas that will disturb 10 or more acres at one time. The sediment basins (or an equivalent alternative) should be able to provide 3,600 cubic feet of storage for each acre drained. Temporary sediment basins (or an equivalent alternative) are recommended for drainage areas under 10 acres.	
	• No sedimentatoin basins are proposed at this time. Should the contractor deem such activities necessary they shall are to be coordinated with the EOR and SFWMD prior to proceeding.	
Section 13	Describe all permanent stormwater management controls such as, but not limited to, detention or retention systems or vegetated swales that will be installed during the construction process.	
	• This project is intended to construct expanded stormwater treatment areas. Details regarding these areas and any form of stormwater conveyance can be found within the construction plans.	
Section 14	Waste disposal, this may include construction debris, chemicals, litter, and sanitary wastes:	All construction materials and debris will be placed in a dumpster and hauled off site to a landfill or other proper disposal site. No materials will be buried on site.

Section 15	Offsite vehicle tracking from construction entrances/exits:	Off site vehicle tracking of sediments and dust generation will be minimized via a rock construction entrance, street sweeping and the use of water to keep dust down.
Section 16	The proper application rates of all fertilizers, herbicides and pesticides used at the construction site:	Florida-friendly fertilizers and pesticides will be used at a minimum and in accordance with the manufacturer's suggested application rates.
Section 17	The storage, application, generation and migration of all toxic substances:	All paints and other chemicals will be stored in a locked covered shed or trailer should they be required.
Section 18	Other:	Port-o-lets will be placed away from storm sewer systems, storm inlet(s), surface waters and wetlands. No vehicle maintenance shall be conducted on-site. A washdown area shall be designated at all times if the contractor needs to pour concrete in place and will not be located in any area that will allow for the discharge of polluted runoff.
Section 19	Provide a detailed description of the maintenance plan for all structural and non-structural controls to assure that they remain in good and effective operating condition.	
	Contractor shall provide routine maintenance of permanent and temporary sediment and erosion control features in accordance with the technical specifications or as follows, whichever is more stringent: • Silt fence shall be inspected at least weekly. Any required repairs shall be made immediately. Sediment deposits shall be removed when they reach approximately one-half the height of the barrier. • Maintenance shall be performed on the rock entrance when any void spaces are full of sediment. • Bare areas of the site that were previously seeded shall be reseeded per manufactures' instructions. • Mulch and sod that has been washed out shall be replaced immediately. • Maintain all other areas of the site with proper controls as necessary.	
Section 20	Inspections: Describe the inspection and inspection documentation procedures, as required by the FDEP NPDES Generic Permit for Stormwater Discharge from Large and Small Construction Activities.	
	•Qualified personnel will inspect all points of discharges, all disturbed areas of construction that have not been stabilized, constructed areas and locations where vehicles enter and exit the site, and all BMPs at least once every 7 calendar days and within 24 hours of the end of a rainfall event that is 0.5 inches or greater. Where sites have been finally stabilized, said inspections shall be conducted at least once every month until the Notice of Termination is filed.	
Section 21	Identify and describe all sources of non-stormwater discharges as allowed by the FDEP NPDES Generic Permit for Stormwater Discharge from Large and Small Construction Activities.	
	•Dewatering effluent must be considered for the duration of construction. Please refer to the dewatering plan.	
Section 22	All contractor(s) and subcontractor(s) identified in the SWPPP 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 thereunder."	

Section 23

Name	Title	Company Name, Address and Phone Number	Date

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EROSION & SEDIMENT CONTROL DETAILS

C107

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MISC NOTES FOR THE CONTRACTOR

A. Mobilization: Mobilization shall meet the requirements of FDOT Section 101. This work shall include, but is not limited to, operations necessary for the movement of personnel, equipment, supplies, and incidentals to the project site, and for the establishment of temporary offices, buildings, safety equipment and first aid supplies, sanitary and other facilities, as required by State and local laws and regulations. the costs of bonds and any required insurance, and any other preconstruction expense necessary for the start of work, excluding the cost of construction materials, shall also be included in this section. This section also includes any and all work related to the final cleanup.

B. Construction Surveying: The Owner shall provide horizontal control consisting of four control points. The Owner shall also provide vertical benchmarks as shown on the plans. This control shall be provided one time only. The Contractor is responsible for all other construction surveying. The Contractor is responsible to protect these reference points and the construction staking throughout the job. The Contractor shall bear the cost of any necessary restaking.

C. Soil Testing: Soil Testing shall be performed by a certified testing laboratory. The contractor shall be responsible for payment of any failed tests and inspections.

EARTHWORK AND GRADING

A. Clearing and Grubbing: Clearing and grubbing shall meet the requirements of FDOT Section 110 and shall be performed within the limits of the project work. This work shall include, but is not limited to, the removal of existing trees, brush stumps, roots and other objectionable material to a depth of 18 inches below the natural ground or design grade, whichever is lower. The areas to be cleared and grubbed generally consist of rights-of-way, utility easements, water management tracts, and portions of the lots as detailed on the plans. The Contractor shall confirm with the Owner the removal of any trees for possible preservation. All material shall be removed from the site of the project and shall be disposed of in accordance with local, regional, State and Federal laws, regulations and ordinances.

B. Rough Grade: The Contractor shall grade the rights-of-way and lots to meet the requirements of FDOT Sections 110 and 120 and shall conform to the lines, grades, and typical sections as shown on the plans.

C. Sod: Sod shall meet the requirements of FDOT Section 570, 575, and 981 and shall be placed adjacent to the curbing for a minimum width of 24 inches.

D. Seed and Mulch: Seed and mulch shall meet the requirements of FDOT Sections 570, 575, and 981 and shall be placed in all disturbed areas not otherwise addressed in plans provided by the owner.

E. Materials and construction methods for earthwork, excavation, embankment and grading shall meet the requirements of FDOT Section 120 and shall be performed to achieve final grades, elevations and typical sections as shown on the plans for the proposed work.

GENERAL NOTES

1. Grassing shall be furnished and installed in conformance with the approved landscape plan. All disturbed areas not shown to be planted, mulched, etc. shall be sodded.
2. Sod shall be placed such that the top of the grass is at the same elevation as the top of adjacent finish grade.
3. The location of existing utilities shown is approximate only and must be field verified by the Contractor prior to beginning Work.
4. These plans shall not be used for construction unless they are marked "Approved for Construction" in the title block.
5. Contractor to obtain and review all permits prior to starting construction
6. Drawing scale may change due to reproduction
7. Maintenance of traffic must be in conformance with FDOT Specifications.
8. All nuisance exotic vegetation on-site must be removed in conjunction with site development.
9. Drawing scale may change due to reproduction.
10. It is the contractor's responsibility to ascertain the exact locations, size, and condition of all existing underground utilities whether shown or not, prior to construction. Contractor shall notify all utility companies prior to construction and notify engineer prior of any deviation from what is shown on the plan.
11. All pipe lengths and centerline slope lengths shown on the drawing are scaled distances measured from center of structures). Contractor shall confirm all measurements in the field and notify engineer in writing of any discrepancies with the drawing prior to performing the work. All quantities shall be paid on the basis of field measurements of completed work.

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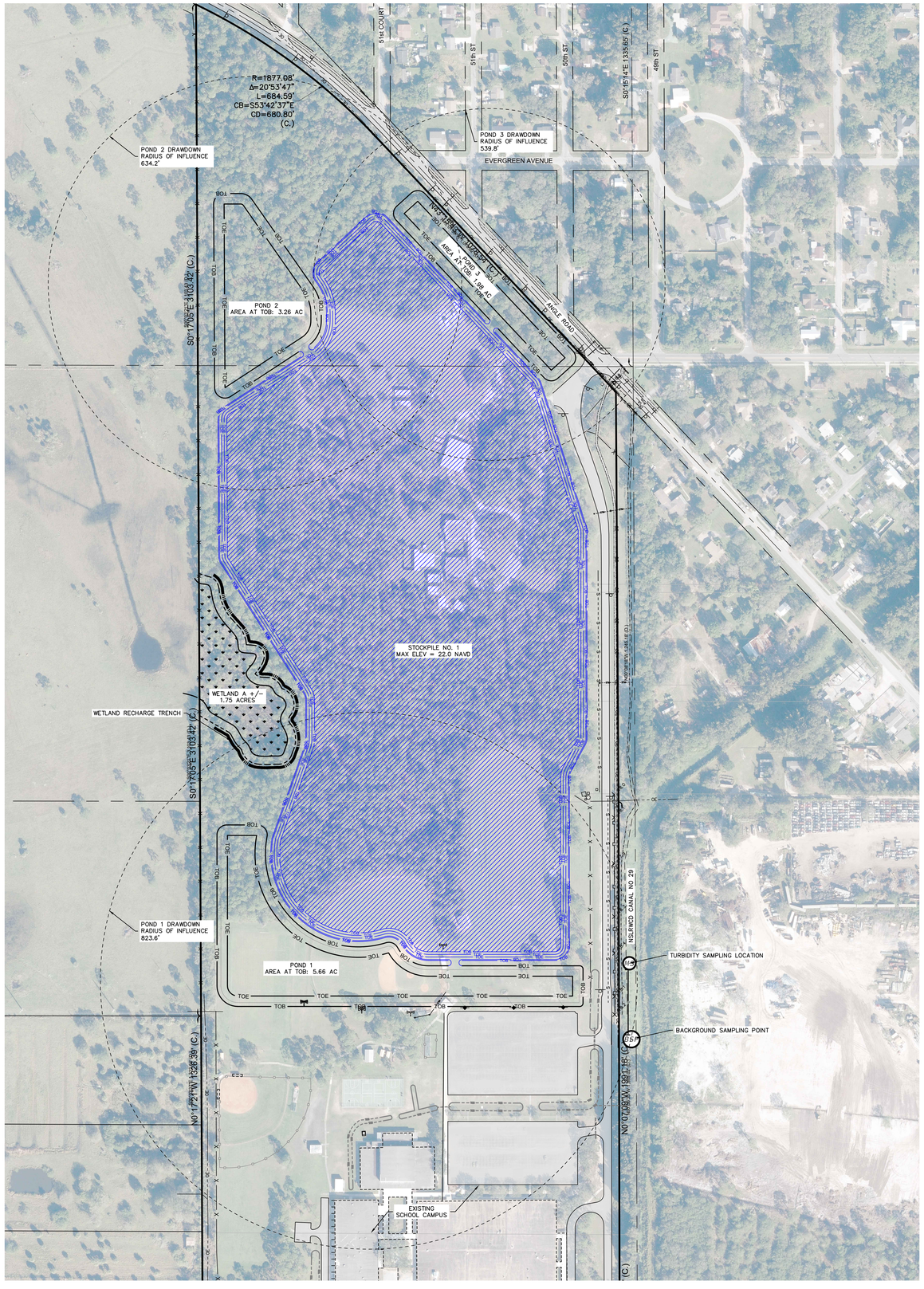
GENERAL NOTES & SPECIFICATIONS

C108



LEGEND

- RECHARGE TRENCH
- MTS — TURBIDITY MONITORING STATION
- BSP — BACKGROUND SAMPLING POINT

GRAPHIC SCALE
150 0 75 150
(IN FEET)
1 inch = 150 ft.

DEWATERING NOTES:

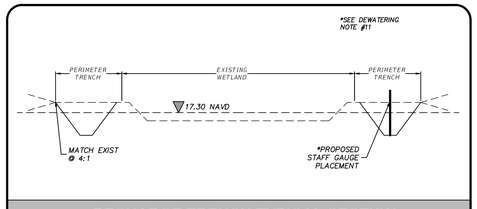
1. *DEWATERING ACTIVITIES ARE LIMITED TO 1,176,000 GPD MAXIMUM DISCHARGE.*
2. *THE CONTRACTOR IS NOT LIMITED TO THE NUMBER OF PUMPING OPERATIONS RUNNING AT ONE TIME, BUT IS LIMITED TO THE TOTAL DAILY DEWATERING DISCHARGES AS LISTED ABOVE.*
3. *THE CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING THE METHODS OF DEWATERING AND DISCHARGE MANAGEMENT.*
4. *THE DEWATERING SEQUENCING SHALL BE DETERMINED BY THE CONTRACTOR BASED ON THE CONTRACTORS CONSTRUCTION SCHEDULE.*
5. *DEWATERING SHALL BE PREFORMED BASED ON THE PERMIT ISSUED BY SOUTH FLORIDA WATER MANAGEMENT DISTRICT.*
6. *THE SEASONAL HIGH-WATER TABLE IS ASSUMED TO BE APPROXIMATELY 17.3 FEET NAVD.*
7. *DISCHARGE OF DEWATERING FROM THE PROJECT AREA SHALL BE CONTROLLED TO ENSURE NO EROSION AT THE DISCHARGE POINT OCCURS.*
8. *THE CONTRACTOR SHALL OBSERVE DAILY DEWATERING DISCHARGES TO OBSERVE THE PRESENTS OF TURBIDITY, CHEMICAL ODORS, OILS, OR OTHER EVIDENCE OF CONTAMINATION.*
9. *THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN A DAILY LOG ON SITE DURING THE DEWATERING RECORDING THE TIME AND DATE OF THE DAILY INSPECTIONS, THE DAILY PUMPING RATES AND PUMP RUN LOGS.*
10. *IF CONTAMINATION WAS OBSERVED DURING THE DAILY INSPECTIONS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE PROJECT MANAGER.*
11. *WATER LEVEL IN THE WETLAND RECHARGE TRENCH TO BE MAINTAINED AT OR ABOVE 17.3 NAVD AS MONITORED BY CONTRACTOR INSTALLED STAFF GAUGES.*

GENERAL NOTES:

1. *ANY SUBSTANTIAL DEVIATIONS TO THIS DEWATERING PLAN SHALL BE APPROVED BY ALL PARTIES.*

WATER QUALITY MONITORING NOTES:

1. *WATER QUALITY MONITORING FOR TURBIDITY SHALL BE TAKEN TWICE DAILY DURING THE DEWATERING OPERATION .*
2. *TURBIDITY SHALL BE EXPRESSED IN NEPHELOMETRIC TURBIDITY UNITS (NTU).*
3. *BACKGROUND SAMPLES SHALL BE TAKEN 200 FEET UPSTREAM OF THE DEWATERING DISCHARGE POINT TO DETERMINE THE BACKGROUND WATER QUALITY.*
4. *DAILY SAMPLES SHALL BE TAKEN AT THE DISCHARGE POINT WITH AT LEAST 4 HOURS BETWEEN SAMPLES.*
5. *DAILY SAMPLES SHALL COMMENCE ON THE FIRST DAY OF DEWATERING AND TERMINATE UPON COMPLETION OF THE DEWATERING ACTIVITIES.*
6. *THE DAILY SAMPLES MUST DEMONSTRATE THAT THE COMPLIANCE TURBIDITY SAMPLES ARE LESS THAN 29 NTU ABOVE THE BACKGROUND SAMPLES NTU LEVEL.*
7. *A WATER QUALITY MONITORING LOG SHALL BE MAINTAINED ON SITE. THE LOG SHALL INCLUDE THE DAILY MONITORING REPORTS.*
8. *THE MONITORING REPORTS SHALL INCLUDE THE FOLLOWING INFORMATION:*
   a. *THE DEWATERING PERMIT NUMBER;*
   b. *THE DAY AND TIME OF WHEN THE SAMPLE WAS TAKEN;*
   c. *THE DEPTH OF THE WATER BODY*
   d. *THE DEPTH OF THE SAMPLE; AND*
   e. *ANTECEDENT WEATHER CONDITIONS.*



RECHARGE TRENCH TYPICAL SECTION
NOT TO SCALE

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200 E. ROBINSON STREET
SUITE 300
ORLANDO, FL 32801
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schenkelshultz.com
SS Lic. No. -AA-C000937

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9461 Brandywine Ln
Port St. Lucie, FL 34986

ISSUE DATE: 7/3/23
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DRAWN BY: ZM CHECKED BY: KEC

DEWATERING PLAN

C109

C109 DEWATERING PLAN

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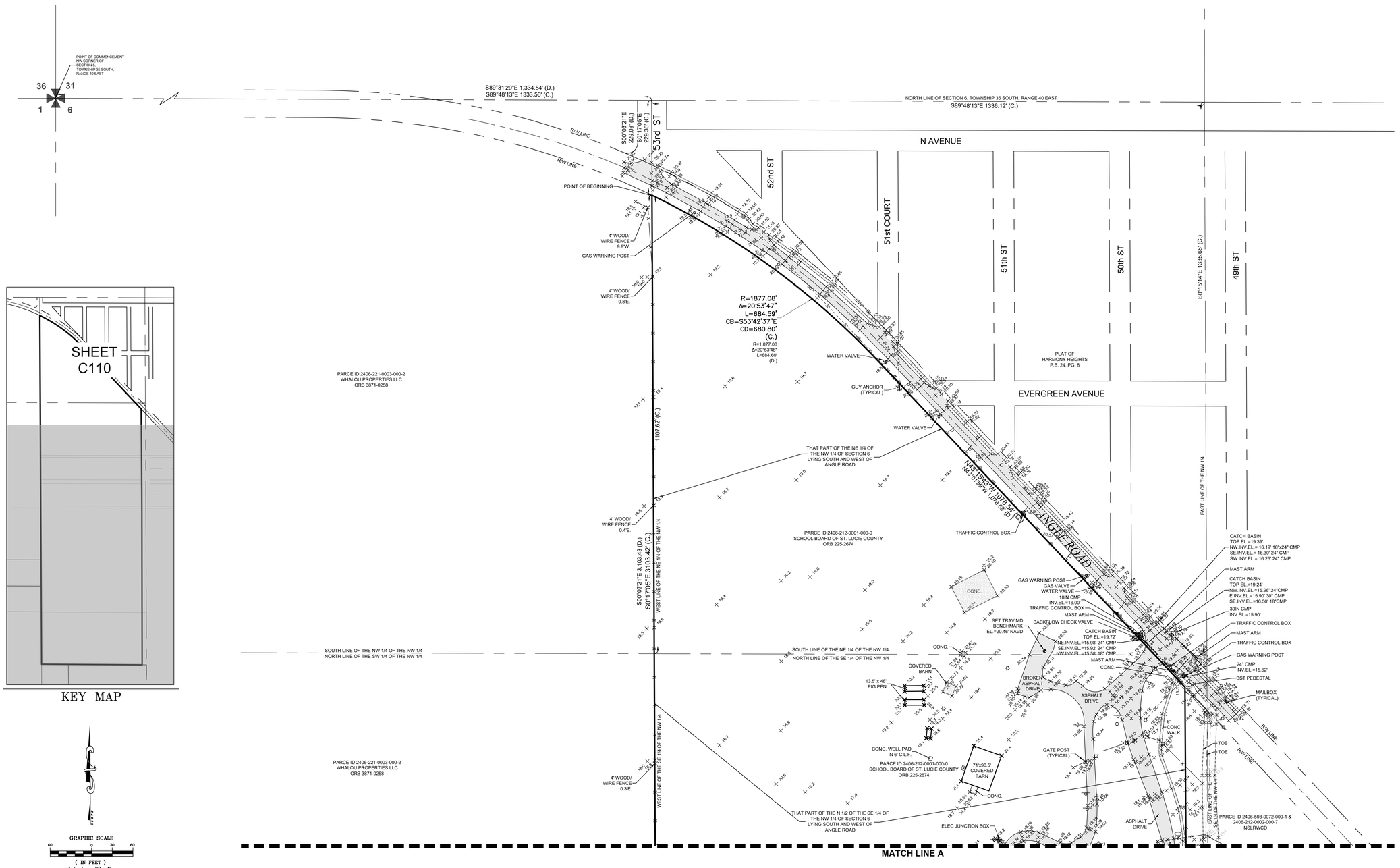
MASS GRADING / DEMOLITION PACKAGE - CD DOCUMENTS



KEY MAP

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60 0 30 60
(IN FEET)
1 inch = 60 ft.

LEGEND

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C110 | TOPOGRAPHIC SURVEY

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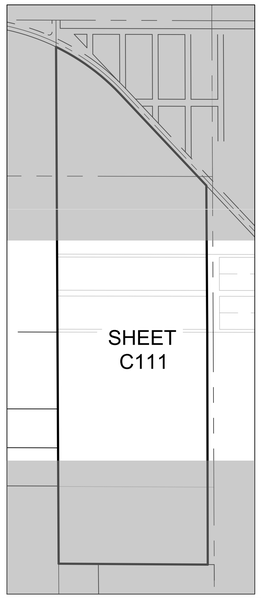
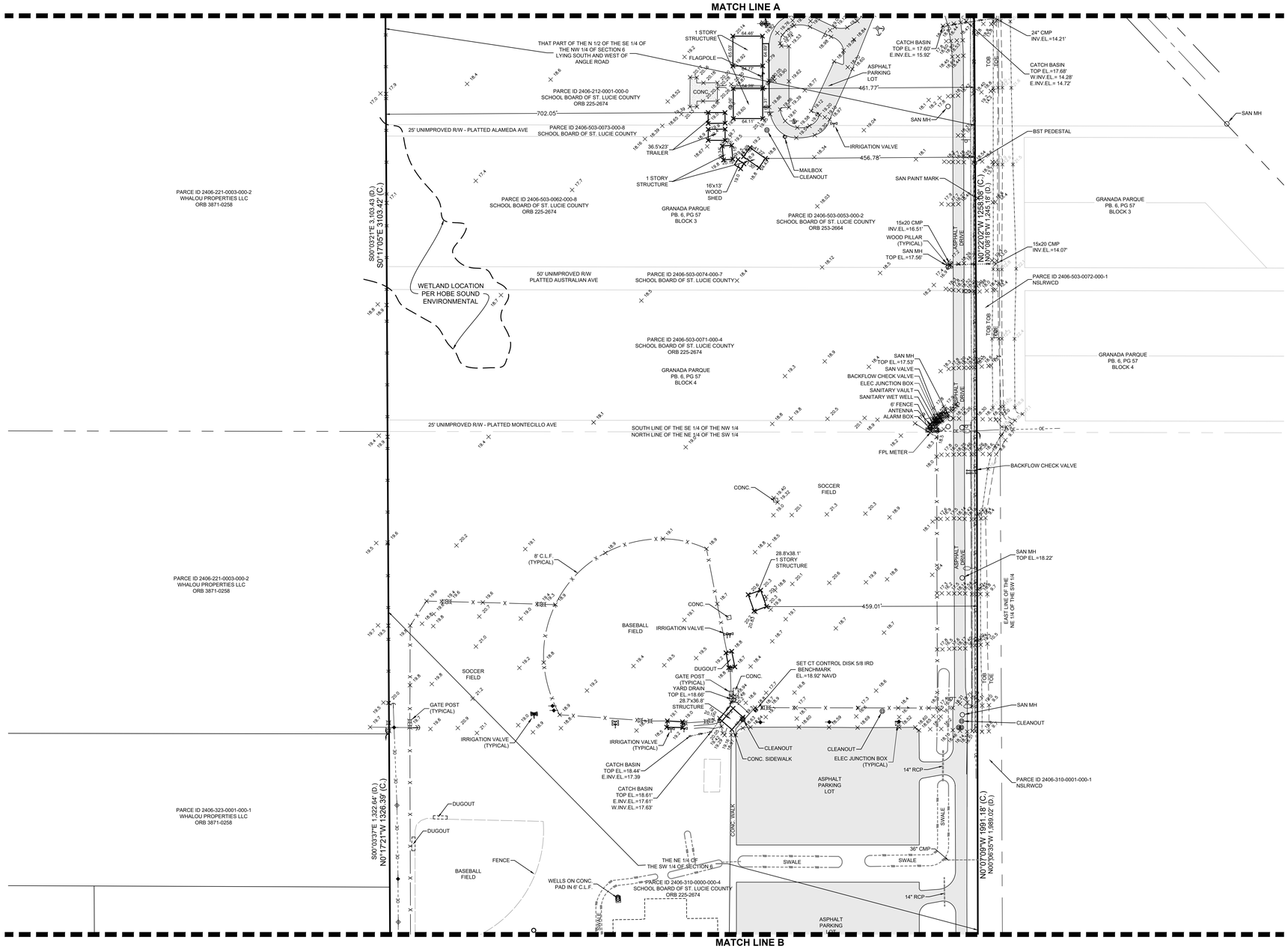
C110



KEY MAP



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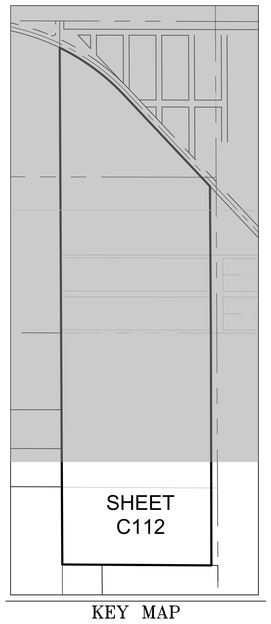
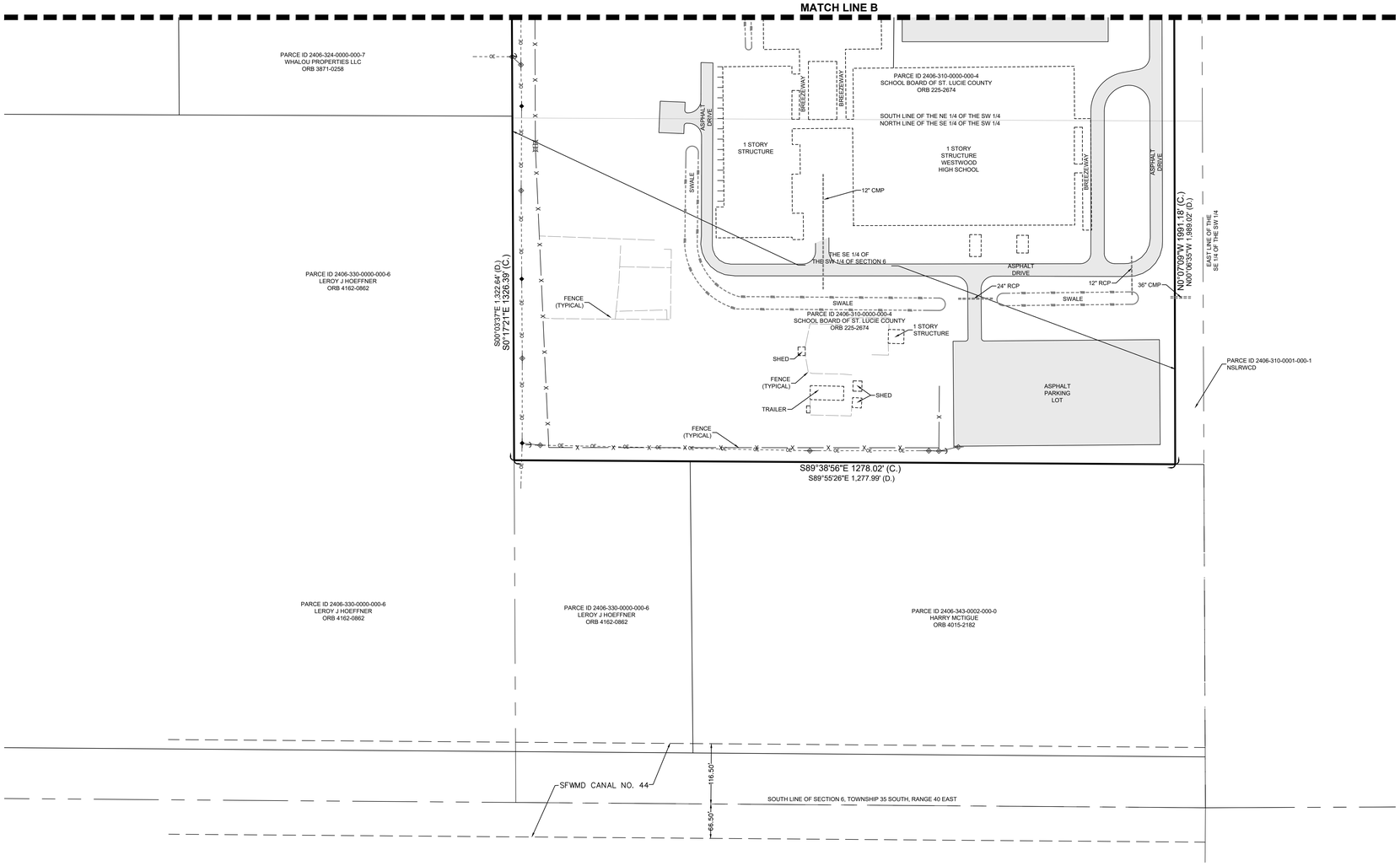


KEY MAP



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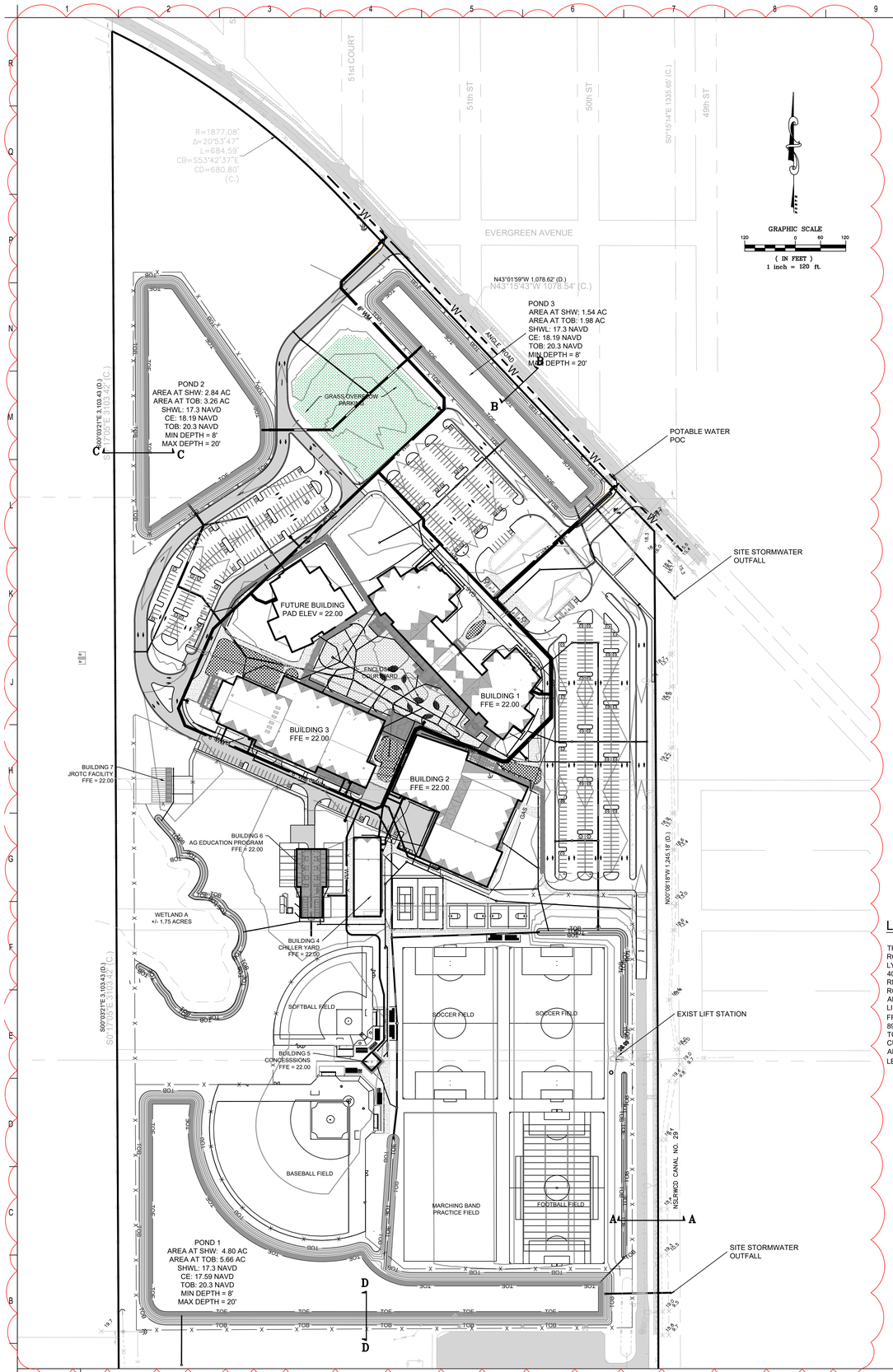

SITE DATA TABLE

Owner/Applicant:
School Board of St Lucie County
9461 Brandywine Lane
Port St Lucie, FL 94986
Phone: (314) 429-3600

Owner:
St Lucie County
2300 Virginia Ave
Fort Pierce, FL 34982
Phone: (772) 462-1100

Engineer / Surveyor:
Culpepper & Terpening, Inc.
2980 South 25th. Street
Fort Pierce, FL 34981
Phone: (772) 464-3537
Fax: (772) 464-9497
www.ct-eng.com

Owners Representatives:
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Fort Pierce, FL 34981
Phone: (772) 464-3537
Fax: (772) 464-9497
www.ct-eng.com

Landscape Architect:
Lucido & Associates
701 SE Ocean Blvd
Stuart, FL 34994
Phone: (772) 220-2100

Architect:
Schenkel Shultz
200 E Robinson St, Unit 300
Orlando, FL 32801
Phone: (407) 872-3322

1.) **Project Name:**
Westwood High School

2.) **Location:**
South of Angle Road and directly north of the existing Westwood High School campus.

3.) **Project Description:**
A high school and associated infrastructure to support up to 2000 students and staff. A potential expansion to up to 2500 students and staff is planned as future development. Post development operations other than classrooms and faculty facilities include:
A Junior ROTC program with a shooting range and fenced area.
Misc sports fields with concessions during events.
An ag research program with active livestock and grazing.

4.) **Sec/Town/Range:**
Section 6/ Range 35S/ Township 40E

5.) **Parcel ID Numbers:**
2406-212-0001-000-0 2406-503-0071-000-4
2406-503-0073-000-8 2406-503-0075-000-2
2406-503-0053-000-2 2406-310-0000-000-4
2406-503-0062-000-8
2406-503-0074-000-7

6.) **Gross Site Area:**
76.81 acres (proposed development area)
3,345,844 sq feet (approximate)

7.) **Zoning:**
I - Institutional

8.) **Future Land Use:**
P/F - Public Facilities

9.) **Building Data:**

Setbacks (feet)	Provided
Front (north)	428.5
Rear (south)	1963.5
Side (west)	103.2
Side (east)	272.1

Building Height	48'-6"
Total Bldg Square Footage	266,151.6 SF
Building Type	FBC I-B and II-B Sprinkled
Approx FFE	22.00 NAVD

10.) **Development Schedule:**
Start 1st Qtr 2024
Complete 3rd Qtr 2025

11.) **Flood Zone:**
The project site is located in Flood Zone X.
According to the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map Number 12111C0159J. (2/16/2012)

12.) **Site Coverage:**

Impervious	SF	ACRE	%Basin
Buildings	266151.6	6.11	8.0%
Pavement	676051.2	15.52	20.2%
Water Surface	399880.8	9.18	12.0%
Wetlands	76230	1.75	2.3%
Total Impervious	1418313.6	32.56	42.4%

Pervious	SF	ACRE	%Basin
Open Space	1,927,530	44.25	57.6%
Total Pervious	1,927,530	44.25	57.6%
Total	3,345,844	76.81	100.0%

13.) **Utility Service:**

Water Service	FPUA	Electric Service	FPL
Sewage Service	FPUA	Cable Service	Blue Stream
Re-Use Water	n/a		

14.) **Fire Services:**
A series of on-site fire hydrants are to be provided in a looped system around the the proposed campus.

15.) **Refuse Collection:**
Trash and solid waste is collected by a St Lucie County approved service provider.

16.) **Parking Provided:**

Standard Spaces	820	Spaces
Handicapped	17	Spaces
Total	**837**	**Spaces**

17.) **Site Drainage:**
The site shall have controlled outfall to North St Lucie River Water Control District Canal No. 29. The project shall be designed to satisfy water quality and quantity criteria set forth by NSLRWCD, SFWMD, and St Lucie County.

18.) **Traffic Statement**
Trip generation is based upon Institute of Transportation Engineers (ITE) Code 525 (11th edition) - High School.

	average rate	Students	trips
Weekday Daily Trips:	1.94	2,000	3880.00
AM Peak	0.51	2,000	1020.00
PM Peak	0.32	2,000	640.00

19.) **Hazardous Waste Statement:**
Any and all hazardous or toxic materials generated or used or stored on site shall be disposed of in accordance with all local, state, and federal Regulations

20.) **Wellfield Protection Ordinance:**
This project is not located in a public water supply wellfield protection zone.

21.) **General Notes:**

a.) No special considerations for site access or vehicle gating will be required, thus no storage considerations are required for trucks at the project enterance.

b.) The abandonment of the existing, undeveloped County right-of-ways within the project area is currently in process under separate cover.

LEGAL DESCRIPTION:

THAT PART OF THE NE 1/4 OF THE NW 1/4 OF SECTION 6, TOWNSHIP 35 SOUTH, RANGE 40 EAST, LYING SOUTH AND WEST OF ANGLE ROAD AS NOW LOCATED. THAT PART OF THE N. 1/2 OF THE SE 1/4 OF THE NW 1/4 OF SECTION 6, TOWNSHIP 35 SOUTH, RANGE 40 EAST, LYING SOUTH AND WEST OF ANGLE ROAD AS NOW LOCATED. THE NE 1/4 OF THE SW 1/4 OF SECTION 6, TOWNSHIP 35 SOUTH, RANGE 40 EAST. LOTS 19-36 BLOCK 4 AND LOTS 10-18, BLOCK 3 OF GRANADA PARQUE SUBDIVISION, ACCORDING TO THE PLAT THEREOF RECORDED IN THE PUBLIC RECORDS OF ST. LUCIE COUNTY, FLORIDA, EXCEPTING FROM THEM ALL RIGHTS OF WAY FOR PUBLIC ROADS AND DRAINAGE CANALS.
ALL LYING IN SECTION 6, TOWNSHIP 35 SOUTH, RANGE 40 EAST, ST. LUCIE COUNTY, FLORIDA, RUN S. 89°31'29" E ALONG THE NORTH LINE OF SECTION 6, 1,334.54 FEET TO A POINT; THENCE RUN S 00°02'31" WEST, 229.08 FEET TO THE POINT OF BEGINNING.
FROM THE P.O.B. RUN S 00°03'21" E 3,103.43 FEET TO A POINT; THENCE RUN S 00°03'37" E 1,322.64 FEET TO A POINT; THENCE RUN S 89°55'26" E 1,277.99 FEET TO A POINT; THENCE RUN N 00°06'35" E 1,989.02 FEET TO A POINT; THENCE RUN N 00°08'18" W 1,245.18 FEET TO A POINT ON THE SOUTH R/W OF ANGLE ROAD; THENCE RUN N 43°01'59" W ALONG SAID R/W, 1,078.62 FEET TO A POINT OF CURVATURE; THENCE RUN ALONG THE ARC OF A CURVE CONCAVE TO THE S.W. HAVING A RADIUS OF 1,877.08 FEET AND A CENTRAL ANGLE OF 20°53'48", A DISTANCE OF 684.60 FEET TO THE P.O.B.
LESS LOTS 1-9, BLK. 3, GRANADA PARQUE S/D AND ALL R/W'S FOR ROADS AND CANALS.

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STATE OF FLORIDA BOARD OF PROFESSIONAL ENGINEERS AUTHORIZATION NO. 4286

REVISIONS

MARK	DESCRIPTION	DATE
1	ADDENDUM 1 (REFER TO NARRATIVE)	10/31/23
2	ADDENDUM 3 (REFER TO NARRATIVE)	12/14/23

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FORT PIERCE WESTWOOD ACADEMY

1801 PANTHER LANE, FT PIERCE , FL 34947

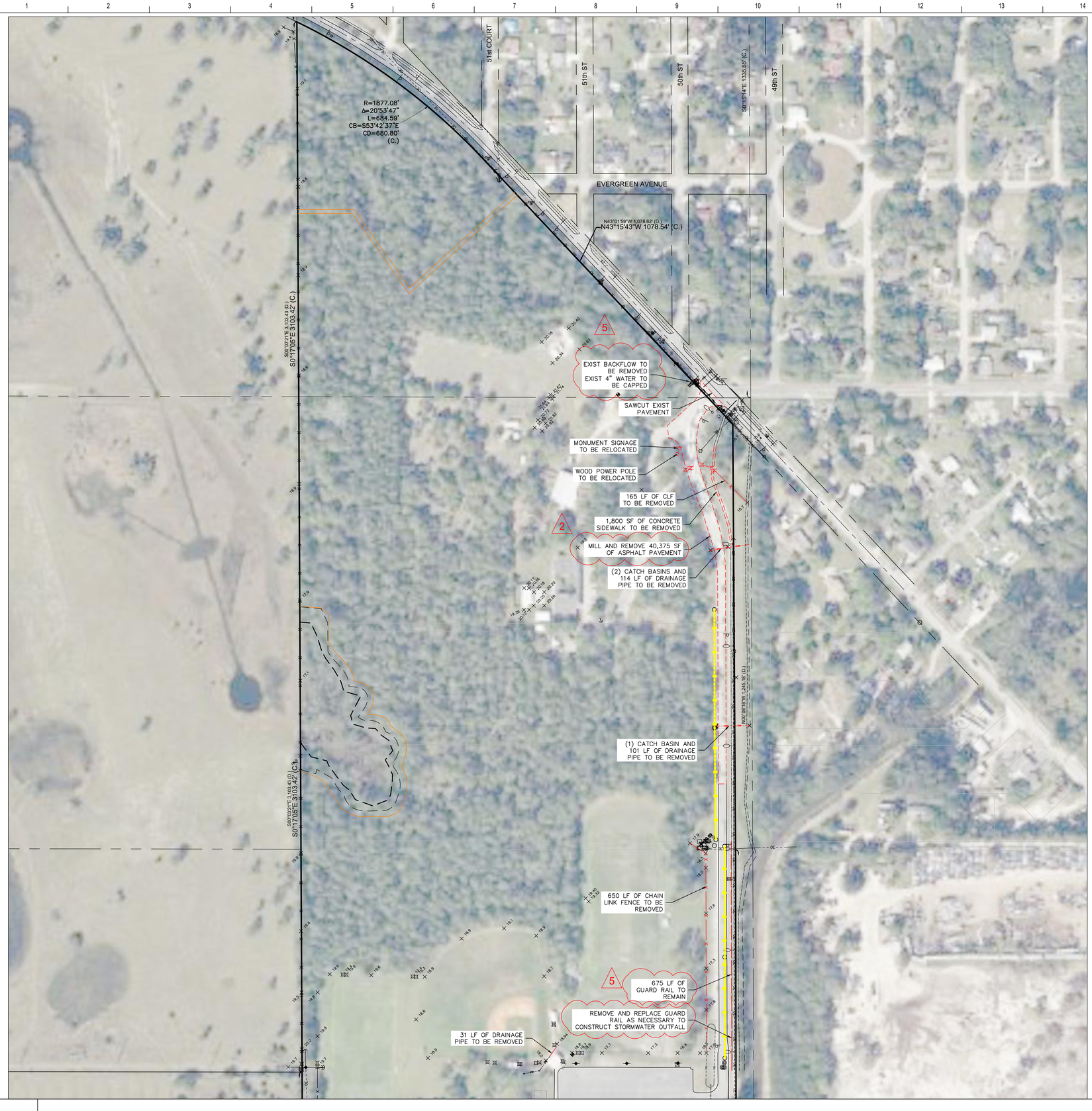
St. Lucie PUBLIC SCHOOLS

St. Lucie Public Schools
9461 Brandywine Ln
Port St. Lucie, FL 34986

ISSUE DATE: 10/10/23
COMM NO.: 2022108
DRAWN BY: ZM CHECKED BY: KEC

OVERALL DEVELOPMENT PLAN

C200



GRAPHIC SCALE

120 0 60 120

(IN FEET)

1 inch = 120 ft.

LEGEND

PROPOSED INFRASTRUCTURE TO BE DEMOLISHED

NOTES:

1) ALL ELEVATIONS AND BENCHMARKS SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM (N.A.V.D.) OF 1988.

2) THE CONTRACTOR IS RESPONSIBLE FOR PRIVATE UTILITY LOCATES WITHIN THE PROJECT/CLEARING AREA. ANY PRIVATE UTILITIES ON-SITE THAT DO NOT SERVE, OR SUPPORT THE OPERATION OF THE EXISTING SCHOOL ARE TO BE DISCONNECTED AND REMOVED.

3) NO INFRASTRUCTURE WITHIN THE ANGLE ROAD RIGHT-OF-WAY IS TO BE REMOVED OR DISTURBED.

4) ACCESS TO THE EXISTING SCHOOL CAMPUS IS TO BE MAINTAINED AT ALL TIMES THROUGH THE DURATION OF CONSTRUCTION ACTIVITIES. AT NO POINT IS SITE INFRASTRUCTURE UTILIZED BY THE EXISTING SCHOOL TO BE DEMOLISHED WITHOUT A TRAFFIC MANAGEMENT PLAN IN PLACE THAT IS APPROVED BY THE OWNER TO MAINTAIN ACCESS.

5) REFER TO ARCHITECTURAL SHEETS FOR VERTICAL DEMOLITION INFORMATION.

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REVISIONS

MARK	DESCRIPTION	DATE
2	ADDENDUM 3 (REFER TO NARRATIVE)	12/14/23
5	ASI NO 5	4/12/24

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Port St. Lucie, FL 34986

ISSUE DATE: 10/10/23
COMM NO.: 2022108
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DEMOLITION PLAN

C201

C201 | DEMOLITION PLAN

5/19/2022 4:10:59 PM

PHASE-3 CONSTRUCTION DOCUMENTS

DRAINAGE STRUCTURE TABLE	
STRUCTURE NAME	STURCTURE DETAILS
MES-01 CONST CONCRETE MITERED END SECTION	NW INV = 12.40
MES-06 CONST CONCRETE MITERED END SECTION	SE INV = 19.22
MES-07 CONST CONCRETE MITERED END SECTION	NW INV = 19.22

DRAINAGE STRUCTURE TABLE	
STRUCTURE NAME	STURCTURE DETAILS
CS-01 CONST MODIFIED TYPE E INLET	RIM = 19.97 SE INV = 14.55
SD-01 CONST TYPE J BOTTOM INLET	RIM = 20.30 SE INV = 12.50 NW INV = 12.50
SD-02 CONST TYPE J BOTTOM INLET	RIM = 20.30 SW INV = 13.00 NW INV = 12.57 E INV = 15.93
SD-03 CONST TYPE E INLET	RIM = 20.30 SE INV = 16.92 W INV = 16.92
SD-04 CONST TYPE C INLET	RIM = 20.30 SE INV = 17.05 NW INV = 17.05
SD-05 CONST TYPE C INLET	RIM = 20.18 NW INV = 17.13 SE INV = 17.30
SD-06 CONST TYPE F INLET W/ J BOTTOM	RIM = 20.30 SW INV = 16.00 NE INV = 13.31 SE INV = 13.31
SD-09 CONST TYPE E INLET	RIM = 20.30 SE INV = 13.44 NW INV = 13.44
SD-11 CONST TYPE C INLET	RIM = 20.30 SE INV = 17.25
SD-12 CONST TYPE C INLET	RIM = 20.30 NW INV = 17.19 SE INV = 17.19
SD-13 CONST TYPE H INLET	RIM = 20.30 NE INV = 11.50 W INV = 11.50
SD-14 CONST TYPE H INLET	RIM = 20.30 NW INV = 16.78 NE INV = 11.50 SW INV = 11.50

DRAINAGE STRUCTURE TABLE	
STRUCTURE NAME	STURCTURE DETAILS
SD-15 CONST YARD DRAIN	RIM = 20.63 NE INV = 17.63
SD-16 CONST TYPE C INLET	RIM = 20.30 SW INV = 17.25 NE INV = 17.25 S INV = 17.30
SD-17 CONST TYPE C INLET	RIM = 20.30 NE INV = 17.12 SW INV = 17.12
SD-18 CONST TYPE E INLET	RIM = 20.30 NE INV = 16.75 SW INV = 16.99
SD-19 CONST TYPE E INLET	RIM = 20.30 NE INV = 16.55 SW INV = 16.85
SD-20 CONST TYPE E INLET	RIM = 20.30 SW INV = 16.49 NE INV = 16.00
SD-21 CONST TYPE C INLET	RIM = 20.30 NE INV = 17.25
SD-22 CONST TYPE C INLET	RIM = 20.70 E INV = 17.01 SW INV = 17.01
SD-23 CONST TYPE E INLET	RIM = 20.78 W INV = 16.79 NE INV = 16.75
SD-24 CONST TYPE E INLET	RIM = 21.00 SW INV = 16.69 N INV = 16.25
SD-63 CONST YARD DRAIN	RIM = 17.44 NW INV = 13.62 SE INV = 13.62

DESIGN CRITERIA:

	MODEL ELEV	PLAN ELEV
CONTROL ELEVATION	= 18.17' NAVD	= 18.17' NAVD
MIN. PAVEMENT	= 18.55' NAVD	= 20.30' NAVD
MIN. PERIMETER BERM	= 19.13' NAVD	= 20.30' NAVD
MIN. FINISHED FLOOR	= 19.92' NAVD	= 22.00' NAVD

EVERGREEN AVENUE

GRAPHIC SCALE
40 0 20 40
(IN FEET)
1 inch = 40 ft.

LEGEND
- HEAVY DUTY ASPHALT PAVING
- LIGHT DUTY ASPHALT PAVING
- PROJECT BOUNDARY
- PROPOSED SIGN
- PROPOSED SECURITY FENCING
- 17.74 PROPOSED ELEVATION
- 18.75 / 18.25 PROPOSED TOP OF CURB ELEVATION / PROPOSED EDGE OF PAVEMENT ELEVATION

NOTES:
1. CHAIN LINK FENCE SHALL BE IN THE STANDARDS SET FORTH BY THE CHAIN LINK MANUFACTURERS INSTITUTE. ALL FENCING HAS TOP RAILS, COMMERCIAL GRADE WITH STEEL TIE WIRES.
2. THE ROOF DRAINAGE SHOWN REPRESENTS THE INFRASTRUCTURE NECESSARY TO CARRY RUNOFF FROM ALL DOWNSPOUT AND CANOPY CONNECTIONS. THE CONNECTIONS THEMSELVES SHALL BE MADE PER THE DETAIL ON SHEET C501. REFER TO THE ARCHITECTURAL PLANS FOR THE PRECISE LOCATION OF ALL ROOF DRAINAGE.
3. ALL ROOF DRAINAGE PIPING IS TO HAVE A POSITIVE PHYSICAL SLOPE OF 0.5% UNLESS SPECIFIED OTHERWISE. ALL HDPE PIPING LOCATED UNDERNEATH PAVEMENTS IS TO BE TRAFFIC RATED FOR HS-20 LOADING.
4. REFER TO DIRECTIONAL SIGNAGE AND MARKING SCHEDULE ON SHEET C500.

POND 2
AREA AT SHW: 2.84 AC
AREA AT TOB: 3.26 AC
SHWL: 17.3 NAVD
CE: 18.19 NAVD
TOB: 20.3 NAVD
MIN DEPTH = 8'
MAX DEPTH = 20'

POND 3
AREA AT SHW: 1.54 AC
AREA AT TOB: 1.98 AC
SHWL: 17.3 NAVD
CE: 18.19
TOB: 20.3 NAVD
MIN DEPTH = 8'
MAX DEPTH = 20'

PARCEL 2406-221-0003-000-2
WHALON TRIPLEX LLC
ORB 3977-0058

MATCHLINE

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REVISIONS

MARK	DESCRIPTION	DATE
1	ADDENDUM 1 (REFER TO NARRATIVE)	10/31/23
2	ADDENDUM 3 (REFER TO NARRATIVE)	12/14/23
3	ASI NO. 1	1/8/24
4	ASI NO. 2	2/22/24
5	ASI NO. 5	4/12/24
6	ASI NO. 6	5/23/24
7	ASI NO. 7	6/14/24
8	ASI NO. 9	7/12/24
9	ASI NO. 10R	8/6/24
11	ASI NO. 13	10/3/24

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PAVING, GRADING, & DRAINAGE PLAN

C300

C300 PAVING, GRADING, & DRAINAGE PLAN

PHASE-3 CONSTRUCTION DOCUMENTS

5/19/2022 4:10:59 PM

MATCHLINE

GRAPHIC SCALE
40 0 20 40
(IN FEET)
1 inch = 40 ft.

DRAINAGE STRUCTURE TABLE	
STRUCTURE NAME	STURCTURE DETAILS
SD-07 CONST TYPE C INLET	RIM = 20.30 NE INV = 16.34 W INV = 16.34
SD-08 CONST TYPE C INLET	RIM = 20.30 E INV = 16.40
SD-10 CONST TYPE E INLET	RIM = 20.30 NW INV = 13.53 SE INV = 13.53 E INV = 13.53
SD-25 CONST TYPE C INLET	RIM = 20.30 SW INV = 17.30 E INV = 17.25
SD-26 CONST TYPE C INLET	RIM = 20.30 W INV = 17.12 S INV = 17.12
SD-27 CONST TYPE C INLET	RIM = 20.30 E INV = 17.25 W INV = 17.30
SD-28 CONST TYPE C INLET	RIM = 20.30 W INV = 17.17 E INV = 17.17
SD-29 CONST TYPE C INLET	RIM = 20.30 W INV = 17.25
SD-30 CONST TYPE C INLET	RIM = 20.30 W INV = 17.19 E INV = 17.19
SD-31 CONST TYPE E INLET	RIM = 20.30 E INV = 17.01 W INV = 17.04 N INV = 16.88 S INV = 16.88
SD-32 CONST TYPE C INLET	RIM = 20.30 E INV = 17.25
SD-33 CONST TYPE C INLET	RIM = 20.30 E INV = 17.17 W INV = 17.17
SD-34 CONST TYPE E INLET	RIM = 20.30 W INV = 17.04 N INV = 16.64 S INV = 16.64
SD-35 CONST TYPE C INLET	RIM = 20.30 SE INV = 17.25 NE INV = 17.80
SD-36 CONST TYPE E INLET	RIM = 20.30 NW INV = 16.60 SE INV = 16.60
SD-37 CONST MANHOLE TYPE P8	RIM = 21.09 S INV = 16.62 NW INV = 16.52 E INV = 18.25 W INV = 17.00
SD-38 CONST TYPE E INLET	RIM = 20.30 N INV = 16.40 S INV = 16.40 E INV = 16.40
SD-40 CONST TYPE E INLET	RIM = 20.30 E INV = 16.28 NW INV = 13.80 S INV = 17.80
SD-41 CONST TYPE E INLET	RIM = 20.30 N INV = 16.75 SE INV = 16.53 W INV = 16.53 S INV = 17.50
SD-42 CONST TYPE C INLET	RIM = 20.30 NE INV = 17.80 S INV = 16.89 NW INV = 18.28
SD-43 CONST TYPE E INLET	RIM = 20.77 S INV = 16.92 SE INV = 16.92 NW INV = 16.75 NE INV = 16.92 S INV = 17.50
SD-44 CONST TYPE C INLET	RIM = 20.50 SW INV = 17.05 E INV = 17.80 N INV = 17.80
SD-45 CONST YARD DRAIN	RIM = 20.30 N INV = 17.17
SD-46 CONST TYPE C INLET	RIM = 20.30 NW INV = 17.15 NE INV = 17.15 SE INV = 17.80
SD-47 CONST YARD DRAIN	RIM = 20.30 SW INV = 17.25
SD-48 CONST MANHOLE TYPE P8	RIM = 21.57 N INV = 16.40 S INV = 16.40

DESIGN CRITERIA:

	MODEL ELEV	PLAN ELEV
CONTROL ELEVATION	= 18.17' NAVD	= 18.17' NAVD
MIN. PAVEMENT	= 18.55' NAVD	= 20.30' NAVD
MIN. PERIMETER BERM	= 19.13' NAVD	= 20.30' NAVD
MIN. FINISHED FLOOR	= 19.92' NAVD	= 22.00' NAVD

DRAINAGE STRUCTURE TABLE	
STRUCTURE NAME	STURCTURE DETAILS
MES-02 CONST CONCRETE MITERED END SECTION	N INV = 16.44
MES-03 CONST CONCRETE MITERED END SECTION	W INV = 16.40

NOTES:
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3. ALL ROOF DRAINAGE PIPING IS TO HAVE A POSITIVE PHYSICAL SLOPE OF 0.5% UNLESS SPECIFIED OTHERWISE. ALL HDPE PIPING LOCATED UNDERNEATH PAVEMENTS IS TO BE TRAFFIC RATED FOR HS-20 LOADING.
4. REFER TO DIRECTIONAL SIGNAGE AND MARKING SCHEDULE ON SHEET C500.

LEGEND
- HEAVY DUTY ASPHALT PAVING
- LIGHT DUTY ASPHALT PAVING
- PROJECT BOUNDARY
- PROPOSED SIGN
- PROPOSED SECURITY FENCING
- PROPOSED ELEVATION
- PROPOSED TOP OF CURB ELEVATION
- PROPOSED EDGE OF PAVEMENT ELEVATION

CONST 170 LF OF CLF AROUND THE WETLAND AREA

MATCHLINE

INSERT - 1"=30'

C301 | PAVING, GRADING, & DRAINAGE PLAN

5/19/2022 4:10:59 PM

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6	ASI NO. 6	5/23/24
7	ASI NO. 7	6/14/24
8	ASI NO. 9	7/12/24
9	ASI NO. 10R	8/6/24
10	ASI NO. 12	9/10/24
11	ASI NO. 13	10/3/24

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FORT PIERCE WESTWOOD ACADEMY

1801 PANTHER LANE, FT PIERCE , FL 34947

St. Lucie PUBLIC SCHOOLS

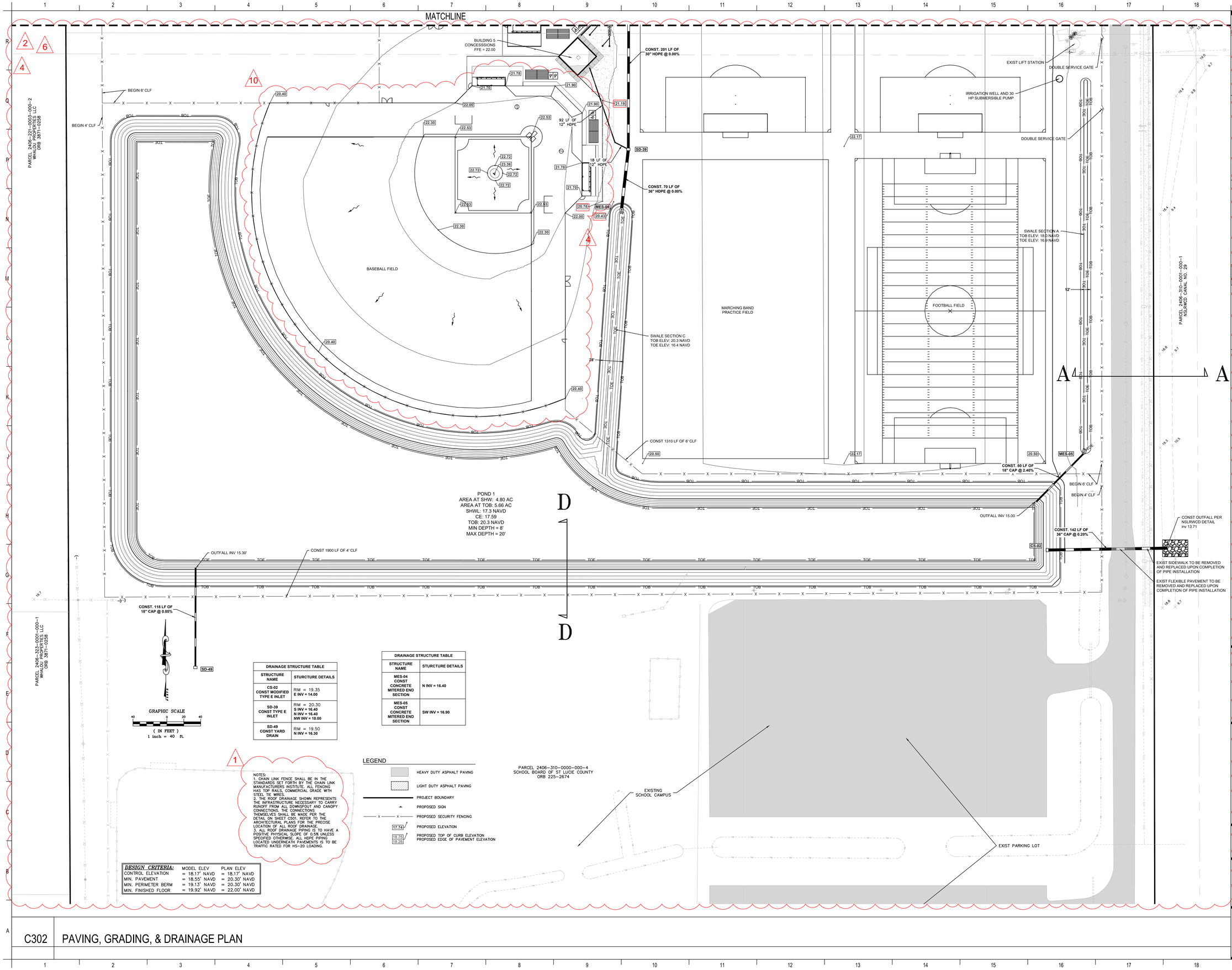
St. Lucie Public Schools
9461 Brandywine Ln
Port St. Lucie, FL 34986

ISSUE DATE: 10/10/23
COMM NO.: 2022108
DRAWN BY: ZM CHECKED BY: KEC

PAVING, GRADING, & DRAINAGE PLAN

C301

PHASE-3 CONSTRUCTION DOCUMENTS



DRAINAGE STRUCTURE TABLE	
STRUCTURE NAME	STURCTURE DETAILS
CS-02 CONST MODIFIED TYPE E INLET	RIM = 19.35 E INV = 14.00
SD-39 CONST TYPE E INLET	RIM = 20.30 S INV = 16.40 N INV = 16.40 NW INV = 18.00
SD-49 CONST YARD DRAIN	RIM = 19.50 N INV = 16.30

DRAINAGE STRUCTURE TABLE	
STRUCTURE NAME	STURCTURE DETAILS
MES-04 CONST CONCRETE MITERED END SECTION	N INV = 16.40
MES-05 CONST CONCRETE MITERED END SECTION	SW INV = 16.90

1

NOTES:
1. CHAIN LINK FENCE SHALL BE IN THE STANDARDS SET FORTH BY THE CHAIN LINK MANUFACTURERS INSTITUTE. ALL FENCING HAS TOP RAILS, COMMERCIAL GRADE WITH STEEL TIE WIRES.
2. THE ROOF DRAINAGE SHOWN REPRESENTS THE INFRASTRUCTURE NECESSARY TO CARRY RUNOFF FROM ALL DOWNSPOUT AND CANOPY CONNECTIONS. THE CONNECTIONS THEMSELVES SHALL BE MADE PER THE DETAIL ON SHEET C501. REFER TO THE ARCHITECTURAL PLANS FOR THE PRECISE LOCATION OF ALL ROOF DRAINAGE.
3. ALL ROOF DRAINAGE PIPING IS TO HAVE A POSITIVE PHYSICAL SLOPE OF 0.5% UNLESS SPECIFIED OTHERWISE. ALL HDPE PIPING LOCATED UNDERNEATH PAVEMENTS IS TO BE TRAFFIC RATED FOR HS-20 LOADING.

DESIGN CRITERIA:	MODEL ELEV	PLAN ELEV
CONTROL ELEVATION	= 18.17' NAVD	= 18.17' NAVD
MIN. PAVEMENT	= 18.55' NAVD	= 20.30' NAVD
MIN. PERIMETER BERM	= 19.13' NAVD	= 20.30' NAVD
MIN. FINISHED FLOOR	= 19.92' NAVD	= 22.00' NAVD

LEGEND

- HEAVY DUTY ASPHALT PAVING
- LIGHT DUTY ASPHALT PAVING
- PROJECT BOUNDARY
- PROPOSED SIGN
- PROPOSED SECURITY FENCING
- 17.74 PROPOSED ELEVATION
- 18.75 / 18.25 PROPOSED TOP OF CURB ELEVATION / PROPOSED EDGE OF PAVEMENT ELEVATION

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PHONE 772-464-3537 ✦ FAX 772-464-9497 ✦ www.ct-eng.com
STATE OF FLORIDA BOARD OF PROFESSIONAL ENGINEERS AUTHORIZATION NO. 4286

REVISIONS

MARK	DESCRIPTION	DATE
1	ADDENDUM 1 (REFER TO NARRATIVE)	10/31/23
2	ADDENDUM 3 (REFER TO NARRATIVE)	12/14/23
4	ASI NO. 2	2/22/24
6	ASI NO. 6	5/23/24
10	ASI NO. 12	9/10/24

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Port St. Lucie, FL 34986

ISSUE DATE: 10/10/23
COMM NO.: 2022108
DRAWN BY: ZM CHECKED BY: KEC

PAVING, GRADING, & DRAINAGE PLAN

C302

C302 | PAVING, GRADING, & DRAINAGE PLAN

PHASE-3 CONSTRUCTION DOCUMENTS

5/19/2022 4:10:59 PM

NOTES:
1. PVC WATER MAIN DEFLECTIONS AT FITTINGS AND PIPE JOINTS SHALL NOT EXCEED THE MANUFACTURER RECOMMENDED MAXIMUM ANGLES.
2. THE LOCATION OF THE DISPLAYED EXISTING UNDERGROUND UTILITIES IS APPROXIMATE. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING EXISTING PUBLIC AND PRIVATE UTILITIES.

CONSTRUCT TEMPORARY 2" JUMPER CONNECTION

CONSTRUCT 12"X8" TS&V (1) 8" GATE VALVE (55)

BSP #1

20' FPUA EASEMENT

CONSTRUCT METER BANK
(1) 6" DDCV ASSEMBLY
(1) 3" WATER METER (POTABLE)
(1) 8"X6" TEE
(1) 8"X6" REDUCER
(1) 6" 90 DEG BEND
(1) 8" GATE VALVE (53)
(1) 6" GATE VALVE (54)
--PLEASE REFER TO FPUA DETAIL W--11 ON SHEET C600

CONSTRUCT 128' OF 6" SDR 17

CONSTRUCT 117' OF 6" C900 PVC

CONSTRUCT (1) 6" 45° BEND TOP EL. 17.35

CONSTRUCT 17' OF 6" SDR 17

CONSTRUCT 14' OF 6" C900 PVC

CONSTRUCT (1) 6" 45° BEND TOP EL. 17.35

CONSTRUCT (1) 6" 45° BEND TOP EL. 17.35

CONSTRUCT 219' OF 6" SDR 17

CONSTRUCT 218' OF 6" C900 PVC

CONSTRUCT (2) 2" GV (51, 52)

C-13

C-14

CONSTRUCT 140' OF 6" C900 PVC

CONSTRUCT 139' OF 6" SDR 17

FIRE LINE

CONSTRUCT 26' OF 6" SDR 17

CONST. (1) F.H ASSEMBLY FIRE HYDRANT #7 FINISHED GRADE +/- 22.14

BSP #9

CONSTRUCT 7' OF 6" SDR 17

CONSTRUCT (1) 6" 45° BEND TOP EL. 17.35

CONSTRUCT (1) 6" 45° BEND TOP EL. 17.35

CONSTRUCT 28' OF 6" C900 PVC

CONSTRUCT (1) 6" 45° BEND TOP EL. 17.35

CONSTRUCT (1) 6"X6" TEE (2) 6" GV (49, 50) TOP EL. 17.35

CONSTRUCT 213' OF 6" SDR 17

CONSTRUCT 217' OF 6" C900 PVC

CONSTRUCT (1) 6"X6" TEE (2) 6" GV (42, 43) TOP EL. 17.35

CONSTRUCT (1) 6"X6" TEE (2) 6" GV (44, 45) TOP EL. 15.60

C-17

CONSTRUCT 159' OF 6" SDR 17

CONSTRUCT 154' OF 6" C900 PVC

CONSTRUCT (1) 6" 45° BEND TOP EL. 15.95

CONSTRUCT 259' OF 6" SDR 17

CONST. (1) F.H ASSEMBLY FIRE HYDRANT #6 FINISHED GRADE +/- 21.37

BSP #10

CONSTRUCT 29' OF 6" SDR 17

CONSTRUCT 162' OF 6" SDR 17

C-16

C-15

CONSTRUCT (1) 6"X6" TEE (2) 6" GV (40, 41) TOP EL. 16.90

CONSTRUCT 422' OF 6" C900 PVC

CONSTRUCT (1) 6" 22.5° BEND TOP EL. 17.55

CONSTRUCT (1) 6"X6" TEE (2) 6" GV (37, 38) TOP EL. 17.35

CONSTRUCT (1) 6" GV (39)

BSP #2

C-18

CONSTRUCT 68' OF 6" SDR 17

CONSTRUCT (1) 6" 45° BEND TOP EL. 17.80

2-1/2" WATER SERVICE INV 18.00 REFER TO MEP PLANS FOR CONTINUATION

6" FIRE SERVICE INV 17.50 REFER TO MEP PLANS FOR CONTINUATION

CONSTRUCT 16' OF 6" SDR 17

CONSTRUCT (1) 6" 45° BEND TOP EL. 16.75

CONSTRUCT (1) 6" 45° BEND (1) 6" GV (46) TOP EL. 16.75

CONSTRUCT 241' OF 6" SDR 17

CONSTRUCT 16' OF 6" C900 PVC

CONSTRUCT (1) 6" 45° BEND TOP EL. 16.75

CONSTRUCT 59' OF 6" C900 PVC

CONSTRUCT (1) 6"X6" TEE (1) 6" GV (47) (1) 3" GV (48) TOP EL. 16.85

CONSTRUCT 77' OF 3" C900 PVC

BSP #7

CONSTRUCT (2) 3" 45° BEND TOP EL. 17.35

C-4

CONSTRUCT 241' OF 6" SDR 17

3" WATER SERVICE INV 17.00 REFER TO MEP PLANS FOR CONTINUATION

CONSTRUCT 181' OF 6" C900 PVC

CONSTRUCT (1) 6"X6" TEE (2) 6" GV (7, 8) TOP EL. 15.75

CONSTRUCT (1) 6"X6" TEE (2) 6" GV (9, 10) TOP EL. 17.35

C-19

CONSTRUCT 209' OF 6" SDR 17

CONSTRUCT 352' OF 6" C900 PVC

CONSTRUCT (1) 6"X6" TEE (2) 6" GV (5, 6) TOP EL. 17.35

BSP #14

CONST. (1) F.H ASSEMBLY FIRE HYDRANT #1 FINISHED GRADE +/- 21.68

C-9A

CONSTRUCT 8' OF 6" SDR 17

FIRE LINE

CONSTRUCT METER BANK
(1) 6" DDCV ASSEMBLY
(1) 3" WATER METER (POTABLE)
(1) 1" WATER METER (CHILLED)
(1) 8"X2" TEE
(1) 8"X6" TEE
(1) 8"X6" REDUCER
(1) 6"X6" TEE
(1) 6" CAP /2" TAP
(2) 6" GATE VALVES (2,3)
(1) 2" GATE VALVE (4)
--PLEASE REFER TO MODIFIED FPUA DETAIL W--11A ON SHEET C600

CONSTRUCT 12"X8" TS&V (1) 8" GATE VALVE (1)

25' FPUA EASEMENT

CONSTRUCT 9'x9' PAD PER METER DETAIL ELEV. 21.25

C-10

C-11

C-12

C-8

C-7

CONSTRUCT 1364 LF OF 2" POLYETHYLENE PIPE

C-9

CONSTRUCT 141' OF 6" SDR 17

ANGLE ROAD

CONST. (1) F.H ASSEMBLY (1) 8"X6" TEE (1) 6" GATE VALVE FIRE HYDRANT #8 FINISHED GRADE +/- 20.7

BSP #8

CONSTRUCT 9'x9' PAD PER METER DETAIL ELEV. 21.25

CONSTRUCT METER BANK
(1) 6" DDCV ASSEMBLY
(1) 3" WATER METER (POTABLE)
(1) 1" WATER METER (CHILLED)
(1) 8"X2" TEE
(1) 8"X6" TEE
(1) 8"X6" REDUCER
(1) 6"X6" TEE
(1) 6" CAP /2" TAP
(2) 6" GATE VALVES (2,3)
(1) 2" GATE VALVE (4)
--PLEASE REFER TO MODIFIED FPUA DETAIL W--11A ON SHEET C600

CONSTRUCT (2) 6" 22.5° BENDS TOP EL. 15.17

CONSTRUCT 12"X8" TS&V (1) 8" GATE VALVE (1)

5

GRAPHIC SCALE
40 0 20 40
(IN FEET)
1 inch = 40 ft.

PARCEL 2406-221-0003-000-2
WHA LORD 35TH OWNER LLC
ORB 35717-1258

MATCHLINE

C400 | UTILITY PLAN

SCHENKELSHULTZ
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STATE OF FLORIDA BOARD OF PROFESSIONAL ENGINEERS AUTHORIZATION NO. 4286

REVISIONS

MARK	DESCRIPTION	DATE
2	ADDENDUM 3 (REFER TO NARRATIVE)	12/14/23
5	ASI NO. 5	4/12/24
6	ASI NO. 6	5/23/24
8	ASI NO. 9	7/12/24

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9461 Brandywine Ln
Port St. Lucie, FL 34986

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UTILITY PLAN

C400

PHASE-3 CONSTRUCTION DOCUMENTS

5/19/2022 4:10:59 PM

MATCHLINE

GRAPHIC SCALE
40 0 20 40
(IN FEET)
1 inch = 40 ft.

SANITARY STRUCTURE TABLE	
STRUCTURE NAME	STRUCTURE DETAILS
EXSS-01 CONST. SAN. MANHOLE	RIM = 22.20 S INV = 11.45 W INV = 11.55
EXSS-02 CONST. SAN. MANHOLE	RIM = 21.90 S INV = 10.41 N INV = 10.51 W INV = 10.51
SS-01 CONST. SAN. MANHOLE	RIM = 21.75 E INV = 12.64 NW INV = 12.74
SS-02 CONST. SAN. MANHOLE	RIM = 21.70 NW INV = 13.91 SE INV = 13.81
SS-03 CONST. SAN. MANHOLE	RIM = 21.50 SE INV = 14.04
SS-04 CONST. SAN. MANHOLE	RIM = 21.17 E INV = 11.79 NW INV = 11.89
SS-05 CONST. SAN. MANHOLE	RIM = 21.60 SE INV = 12.82 SW INV = 12.92
SS-06 CONST. SAN. MANHOLE	RIM = 21.74 NE INV = 13.21 S INV = 13.31
SS-07 CONST. SAN. MANHOLE	RIM = 21.72 N INV = 13.91

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UTILITY DETAIL
1" = 10'

MATCHLINE

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STATE OF FLORIDA BOARD OF PROFESSIONAL ENGINEERS AUTHORIZATION NO. 4286

PARCEL # 406-310-0001-250--1
NEIGHBORHOOD CANAL NO. 252

REVISIONS		
MARK	DESCRIPTION	DATE
1	ADDENDUM 1 (REFER TO NARRATIVE)	10/31/23
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4	ASI NO. 2	2/24/24
5	ASI NO. 5	4/12/24
6	ASI NO. 6	5/23/24
8	ASI NO. 9	7/12/24
9	ASI NO. 10R	8/6/24

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UTILITY PLAN

C401

PHASE-3 CONSTRUCTION DOCUMENTS

C401 | UTILITY PLAN

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MATCHLINE

2" WATER SERVICE INV 18.00
REFER TO MEP PLANS FOR CONTINUATION

4" SANITARY SERVICE INV 17.00
REFER TO MEP PLANS FOR CONTINUATION

CONST GREASE INTERCEPTOR SYSTEM PER MEP PLANS

4" SANITARY SERVICE INV 17.00
REFER TO MEP PLANS FOR CONTINUATION

EXISTING LIFT STATION WET WELL

IRRIGATION WELL AND 30 HP SUBMERSIBLE PUMP

PARCEL 2406-221-0003-000-2
WHG FP WESTWOOD LLC
ORB 3971-0258

PARCEL 2406-323-0001-000-1
WHG FP WESTWOOD LLC
ORB 3971-0258

PARCEL 2406-310-0001-000-1
INDIANO CANAL NO. 29

S00°03'37"E 1,322.64' (D.)

N01°17'21"W 1326.39' (C.)

N00°06'35"W 1,989.02' (D.)

N0°07'09"W 1991.18' (C.)

PARCEL 2406-310-0000-000-4
SCHOOL BOARD OF ST LUCIE COUNTY
ORB 225-2674

EXISTING SCHOOL CAMPUS

EXIST PARKING LOT

GRAPHIC SCALE
40 0 20 40
(IN FEET)
1 inch = 40 ft.

NOTES:
1. PVC WATER MAIN DEFLECTIONS AT FITTINGS AND PIPE JOINTS SHALL NOT EXCEED THE MANUFACTURER RECOMMENDED MAXIMUM ANGLES.

C402 | UTILITY PLAN

SCHENKELSHULTZ
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fax 407-872-3303
schenkelshultz.com
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CULPEPPER & TERPENING INC
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PHONE 772-464-3537 ✦ FAX 772-464-9497 ✦ www.ct-eng.com
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REVISIONS

MARK	DESCRIPTION	DATE
2	ADDENDUM 3 (REFER TO NARRATIVE)	12/14/23

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1801 PANTHER LANE, FT PIERCE , FL 34947

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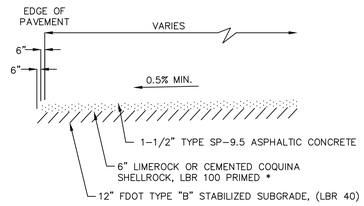
UTILITY PLAN

C402

PHASE-3 CONSTRUCTION DOCUMENTS

5/19/2022 4:10:59 PM



LIGHT DUTY ASPHALT SECTION
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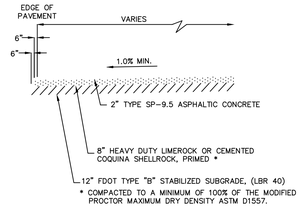

HEAVY DUTY PAVEMENT SECTION
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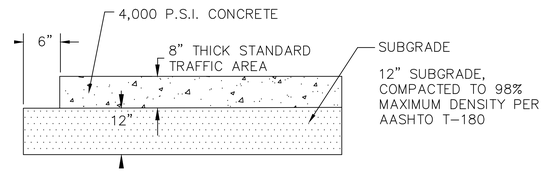

TYPICAL CONCRETE SECTION
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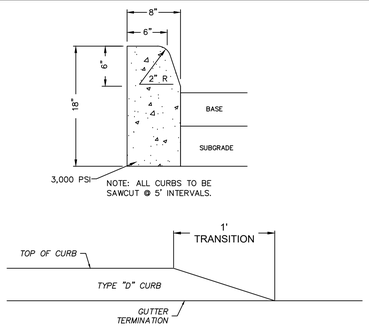
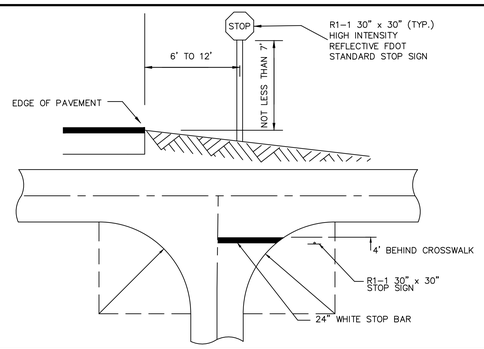


TYPE 'D' CURB DETAIL
NOT TO SCALE



STOP SIGN & STOP BAR DETAIL
NOT TO SCALE

Directional Signing and Marking Schedule

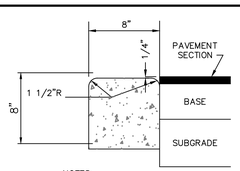
Label	Sign	Site Total
R1-1	STOP SIGN	25
R1-2	YIELD/PED YIELD SIGN	12
R5-1	DO NOT ENTER	2
PM-1	STOP BAR	25
PM-2	THRU/TURN ARROW	35

Notes:

1. Schedule excludes crosswalks. Refer to FDOT 711-001.

2. Schedule excludes non-directional signage.

5



HEADER CURB DETAIL
NOT TO SCALE

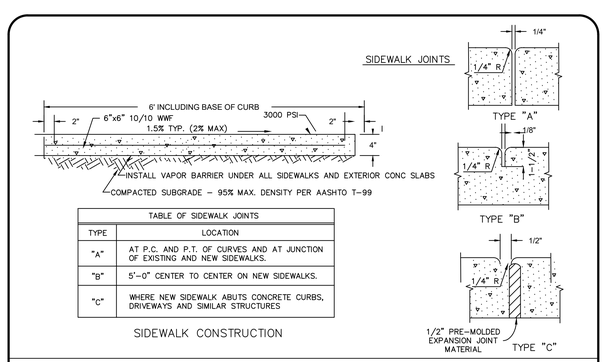
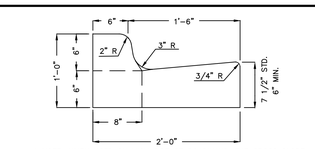


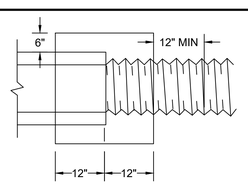
TABLE OF SIDEWALK JOINTS	
TYPE	LOCATION
"A"	AT P.C. AND P.T. OF CURVES AND AT JUNCTION OF EXISTING AND NEW SIDEWALKS.
"B"	5'-0" CENTER TO CENTER ON NEW SIDEWALKS.
"C"	WHERE NEW SIDEWALK ABUTS CONCRETE CURBS, DRIVEWAYS AND SIMILAR STRUCTURES

SIDEWALK DETAILS
NOT TO SCALE



* NOTE: WHEN USED ON HIGH SIDE OF ROADWAYS, THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT AND THE THICKNESS OF THE LIP SHALL BE 6", UNLESS OTHERWISE SHOWN ON PLANS.

TYPE F CURB
NOT TO SCALE



CONCRETE COLLAR DETAIL
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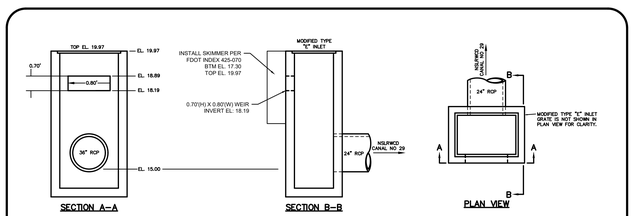

CS-01 DETAIL
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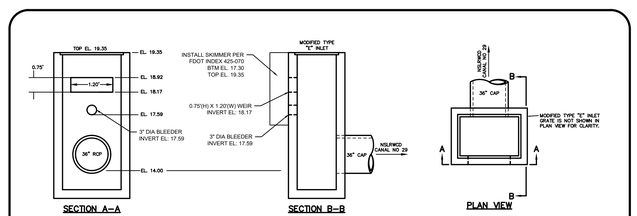

CS-02 DETAIL
NOT TO SCALE

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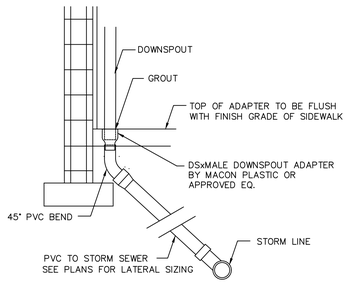
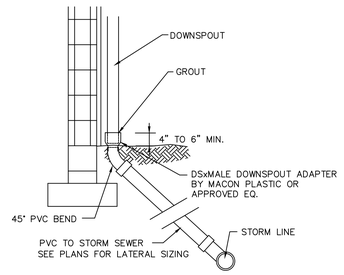
PAVING, GRADING, & DRAINAGE DETAILS

C500



NOTES:
1. VERIFY THAT THERE ARE NO CONFLICTS WITH BUILDING/WALK FOUNDATION. PROVIDE FITTINGS AS REQUIRED TO MITIGATE CONFLICT.
2. ENSURE THAT CENTERLINE OF HUB MATCHES CENTERLINE OF DOWNSPOUT AT JUNCTION.
3. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.

DOWNSPOUT CONNECTION (SIDEWALK)
NOT TO SCALE



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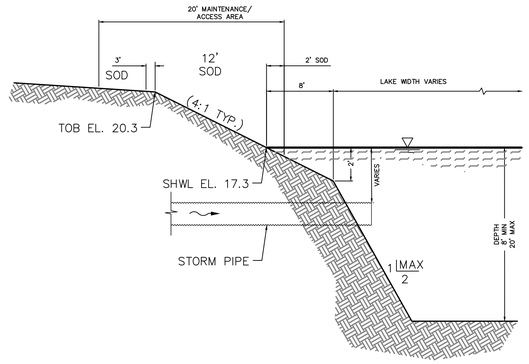
2. ENSURE THAT CENTERLINE OF HUB MATCHES CENTERLINE OF DOWNSPOUT AT JUNCTION.
3. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.

DOWNSPOUT CONNECTION (GRASS)
NOT TO SCALE



TYPICAL LAKE SECTION
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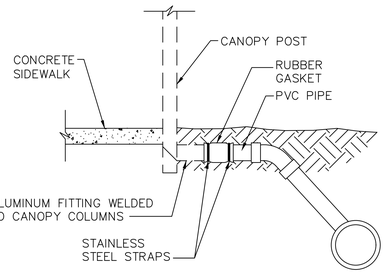
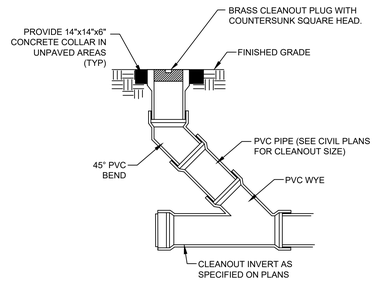


CANOPY CONNECTION DETAIL
NOT TO SCALE



STORM CLEANOUT DETAIL
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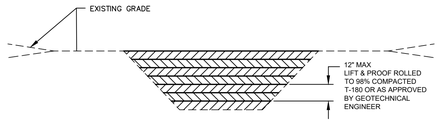
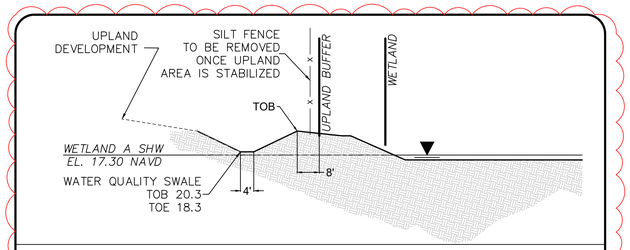


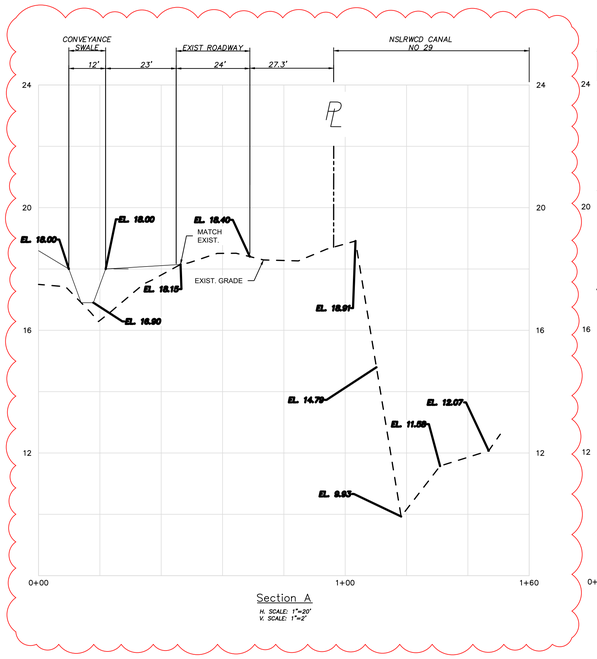
TYPICAL FILL PLACEMENT & COMPACTION DETAIL
NOT TO SCALE

9

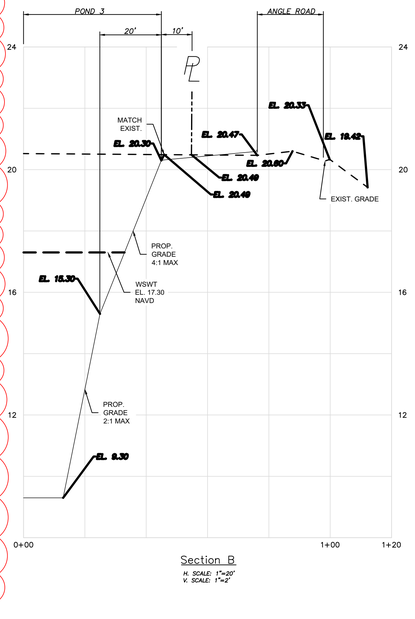


WETLAND PERIMETER SECTION
NOT TO SCALE

2



Section A
H. SCALE: 1"=20'
V. SCALE: 1"=2'



Section B
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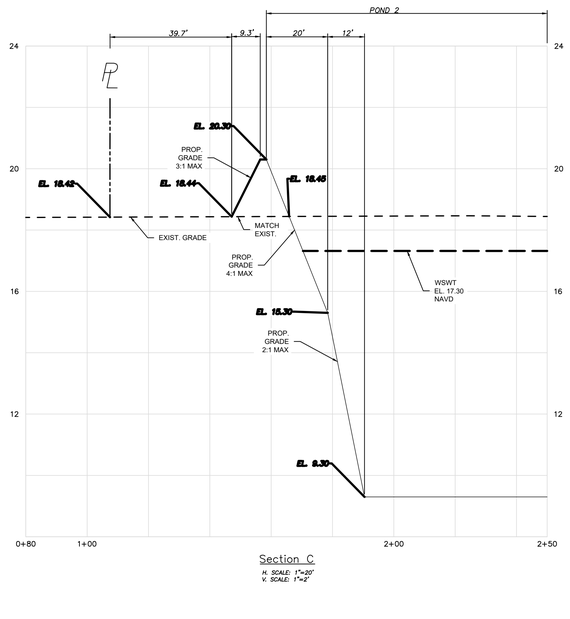
V. SCALE: 1"=2'



Section C
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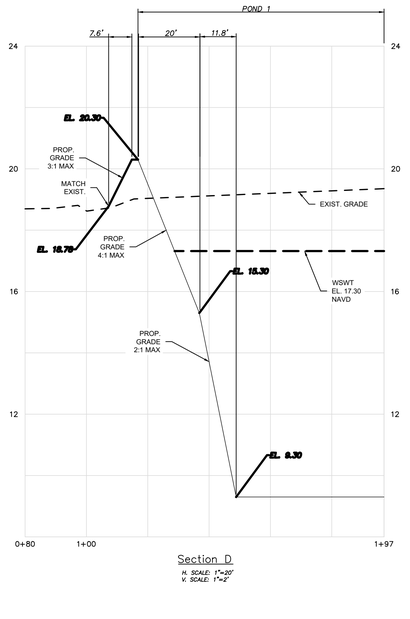
V. SCALE: 1"=2'



Section D
H. SCALE: 1"=20'
V. SCALE: 1"=2'

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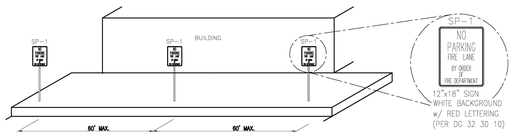
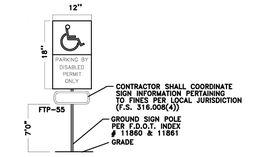
PAVING, GRADING, & DRAINAGE DETAILS

C501



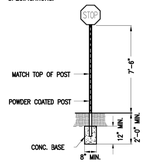
FIRE LANE DETAIL
N.T.S.



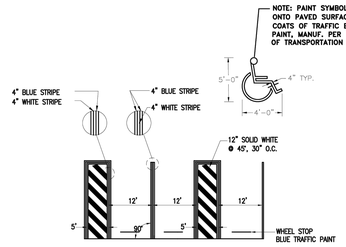
ADA PARKING SIGN – DETAIL
N.T.S

NOTES
1. TOP PORTION OF FTP 25 & 26 SHALL HAVE A REFLECTIVE SYMBOL AND BORDER.
2. BOTTOM PORTION SHALL HAVE A REFLECTIVE WHITE BACKGROUND WITH BLACK OPAQUE LEGEND AND BORDER.
3. FTP 25 & 26 MAY BE FABRICATED ON ONE PANEL OR TWO.
4. FTP 25 MAY BE SUBSTITUTED FOR THE FTP 26 IN AREAS WHERE SPACE IS LIMITED.
5. SIGNS ARE TO BE MOUNTED AT STANDARD HEIGHT.

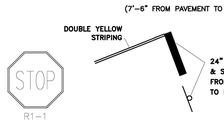
NOTES
1. SEE PLANS FOR SIGNAGE TYPES AND LOCATIONS
2. SIGNAGE TO CONFORM TO FLORIDA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.



SIGN DETAIL
N.T.S.

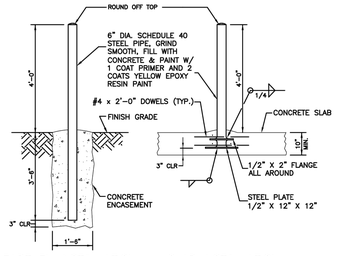


ADA PARKING DETAILS
N.T.S



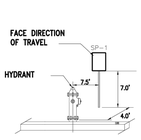
STOP SIGN
N.T.S

STOP SIGN & STOP BAR DETAIL
N.T.S.



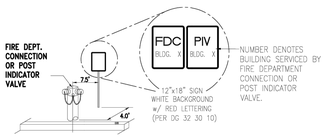
EARTHEN INSTALLATION SLAB INSTALLATION

BOLLARD DETAIL
N.T.S.



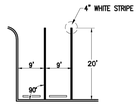
NOTE: REFER TO SHEET C501 FOR SIGNAGE PLACEMENT.

FIRE HYDRANT MARKING DETAIL
N.T.S.

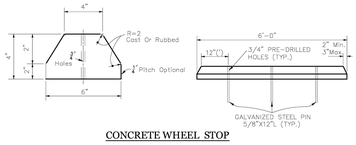


NOTE: REFER TO SHEET C501 FOR SIGNAGE PLACEMENT.

FIRE DEPT. CONNECTION / POST INDICATOR VALVE DETAIL
N.T.S.



TYPICAL PARKING STALL STRIPING DETAIL
N.T.S.

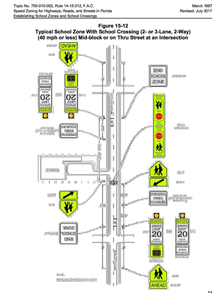


CONCRETE WHEEL STOP

CURBING - A	STRIPING - B
A01 FDOT TYPE D CURB, REFER TO DETAIL ON SHEET C001.	B01 4" SOLID WHITE STRIPE – TRAFFIC PAINT.
A02 FDOT TYPE F CURB AND GUTTER, REFER TO DETAIL ON SHEET C001.	B02 4" SOLID WHITE STRIPE – TRAFFIC PAINT.
A03 12"x8" RIBBON CURB, REFER TO DETAIL ON SHEET C601.	B03 6" SOLID WHITE, 10' STRIPE, 10' SKIP – TRAFFIC PAINT
A04 FDOT DROP CURB, REFER TO DETAIL ON SHEET C001.	B04 "NO PARKING" W/12" CHEVRON @45°, 10' O.C. W/YELLOW TRAFFIC PAINT
A05 FDOT VALLEY GUTTER, REFER TO DETAIL ON SHEET C001.	B05 6" SOLID, DOUBLE YELLOW STRIPE – TRAFFIC PAINT
A06 FDOT CURB TRANSITION, REFER TO FDOT INDEX #300.	B06 6" SOLID YELLOW STRIPE w/ 18" CHEVRONS @ 45°, 10' O.C. – TRAFFIC PAINT.
A07 FDOT SIDEWALK CURB, REFER TO FDOT INDEX #304.	B07 24" STOP BAR, PAINTED ONSITE – THERMOPLASTIC OFFSITE.
	B08 DIRECTIONAL ARROW AND/OR PAVEMENT MESSAGE REFER TO FDOT DETAILS.
	B09 CROSSWALK, PAINTED ONSITE – THERMOPLASTIC OFFSITE, REFER TO FDOT INDEX #17346.
	B10 6' RAMP, 20' FLUSH LOADING ZONE w/ 4' SOLID YELLOW TRAFFIC PAINT BORDER AND 12" SOLID YELLOW STRIPE @ 45°, 5' O.C. (TYP.)
	B11 HANDICAP PARKING STRIPING AND SIGNAGE, REFER TO DETAIL ON SHEET C600.
	B12 6" SOLID YELLOW, 10' STRIPE, 10' SKIP – TRAFFIC PAINT

SIGNAGE - C	FENCING - D
C01 NO PARKING FIRE LANE (SP-1). (SEE DETAIL ON SHEET C600).	D01 6' HIGH BLACK VINYL COATED CHAIN LINK FENCE.
C02 FIRE DEPARTMENT CONNECTION(FDC) / POST INDICATOR VALVE(PIV) BUILDING NUMBER BEING SERVED SIGN (SP-2).	D02 4' HIGH, BLACK VINYL COATED CHAIN LINK FENCE
C03 FOOT "DO NOT ENTER" SIGN (RS-1).	D03 24' WIDE, DOUBLE SWING, BLACK VINYL COATED CHAIN LINK GATE
C04 FOOT "LEFT TURN ONLY" SIGN.	D04 30' WIDE, DOUBLE SWING, BLACK VINYL COATED CHAIN LINK GATE
C05 FOOT "RIGHT TURN ONLY" SIGN.	D05 10' BLACK VINYL COATED CHAIN LINK GATE
C06 FOOT "STOP" SIGN (R1-1; 30"x30").	D06 5' BLACK VINYL COATED CHAIN LINK GATE
C07 BUS VEHICLE ONLY SIGNAGE (SP-3A). (SEE DETAIL THIS SHEET).	D07 6' WIDE, DOUBLE SWING, BLACK VINYL COATED CHAIN LINK GATE
C08 BUS DROP-OFF SIGNAGE (SP-3C). (SEE DETAIL THIS SHEET).	D08 BAR GATE (REFER TO DETAILS THIS SHEET).
C09 SERVICE VEHICLE ONLY SIGNAGE (SP-3B). (SEE DETAIL THIS SHEET).	D09 4' HIGH, 5' WIDE, BLACK VINYL COATED CHAIN LINK GATE
C10 STUDENT DROP-OFF SIGNAGE (SP-3C). (SEE DETAIL THIS SHEET).	D10 12' WIDE, DOUBLE SWING, BLACK VINYL COATED CHAIN LINK GATE
C11 "NOTICE TO ALL VISITORS" SIGN (SEE DETAIL THIS SHEET)	D11 4' WIDE, DOUBLE SWING, BLACK VINYL COATED CHAIN LINK GATE
C12 SCHOOL SIGN, REFER TO ARCHITECTURAL PLAN FOR DETAILS.	
C13 RECLAIMED WATER SIGNAGE, REFER TO SHEET C803 FOR DETAILS.	

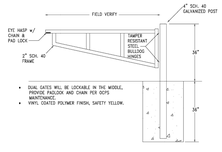
SITE - E
E01 6" THICK CONCRETE
E02 BOLLARD, REFER TO DETAIL ON SHEETS C600.
E03 BIKE RACK, REFER TO ARCHITECTURAL PLANS FOR DETAILS.
E04 RAISED CONCRETE WALK, REFER TO DETAIL ON SHEET C601.
E05 FLUSH CONCRETE WALK, REFER TO DETAIL ON SHEET C601.
E06 RAMP w/ DETECTABLE WARNING SURFACE, REFER TO FDOT DETAIL (TYP.)
E07 6" CONCRETE WHEEL STOP, REFER DETAIL ON SHEET C600.
E08 REFER TO SHEET C601 FOR ASPHALT PLAY COURT SECTION.
E09 DUMPSTER PAD, REFER TO SLAB DETAIL ON SHEET C601. REFER TO ARCHITECTURAL PLANS FOR ENCLOSURE DETAILS.
E10 FLAG POLE, REFER TO DETAIL ON ARCHITECTURAL PLANS.
E11 EMERGENCY ACCESS MARKER, REFER TO DETAIL ON SHEET C601.
E12 REFLECTIVE PAVEMENT MARKERS (SEE DETAIL THIS SHEET).



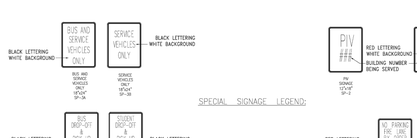
54

FDOT REDUCED SPEED ZONE SIGNAGE
REFER TO FDOT INDEX #17344, 3

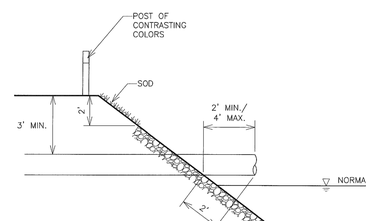
NOTES:
1) S5-1 GROUND MOUNTED SIGN w/ A SOLAR POWERED FLASHING BEACON & TEMPLE 800-07% TIME CLOCK COMPATIBLE W/ RTC MANUFACTURING'S CPR III CENTRAL PAGER SYSTEM.
2) THE SPEED LIMIT SHOWN ON THE SIGN SHOULD BE 20 MPH.



BAR GATE DETAIL
NTS



SPECIAL SIGNAGE LEGEND:



DWG. NO. P:\74-0901\Permit Application Documentation\Permit Manual\Exhibits\EXHIBIT G.dwg

NORTH ST. LUCIE RIVER WATER CONTROL DISTRICT	
SKETCH TO ACCOMPANY **TYPICAL CONNECTION DETAIL**	
DATE:	APPLICATION NUMBER :
CANAL NO.:	APPLICANT:

EXHIBIT "G"

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STATE OF FLORIDA BOARD OF PROFESSIONAL ENGINEERS AUTHORIZATION NO. 4286

REVISIONS

MARK	DESCRIPTION	DATE
1	ADDENDUM 1 (REFER TO NARRATIVE)	10/31/23
6	ASI NO. 6	5/23/24

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FORT PIERCE WESTWOOD ACADEMY

1801 PANTHER LANE, FT PIERCE , FL 34947

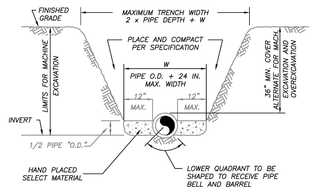
St. Lucie PUBLIC SCHOOLS

St. Lucie Public Schools
9461 Brandywine Ln
Port St. Lucie, FL 34986

ISSUE DATE: 10/10/23
COMM NO.: 2022108
DRAWN BY: ZM CHECKED BY: KEC

PAVING, GRADING, & DRAINAGE DETAILS

C502



NOTES:

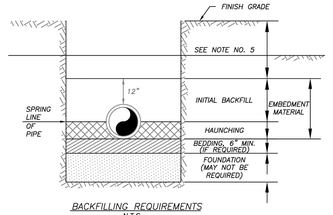
1) THE CONTRACTOR SHALL COMPLY WITH REQUIREMENTS OF THE FLORIDA TRENCH SAFETY ACT.

2) INITIAL BACKFILL SHALL BE HAND PLACED TO 12" ABOVE THE PIPE. BACKFILL SHALL BE MECHANICALLY TAMPED TO A MINIMUM OF 100% OF MAX. DENSITY AS DETERMINED BY AASHTO METHOD T-99.

TYPICAL TRENCH DETAIL

N.T.S.

FPUA COMMUNITY PROUD	TYPICAL TRENCH DETAIL			M-1
03-09 CONCRETE SLAB — REVISION:	SLL	JLC	APPD:	WATER/WASTEWATER ENGINEERING
DESIGNED: JLC	COMPUTER FILE #: MISC. DETAILS 200902.DWG			FT. PIERCE UTILITIES AUTHORITY
DRAWN BY: SLL	SCALE: N.T.S.			
APPROVED: JLC	DATE: 2015	SHEET: 1 OF 1		



BACKFILLING REQUIREMENTS

N.T.S.

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) HAUNCHING MATERIAL 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 PIPE. THE SOIL SHALL BE COMPACTED TO 100% MAX. DENSITY.(AASHTO T-99)

5) BACKFILL SHALL BE COMPACTED TO 100% OF MAX. DENSITY AS PER AASHTO T-99, TO A POINT 30" BELOW PROPOSED PROFILE GRADE OR EXISTING GRADE. THE FINAL 30" OF BACKFILL SHALL BE COMPACTED TO 98% OF MAX. DENSITY AS PER AASHTO T-180.

6) DENSITY TEST SHALL BE PERFORMED AT AREAS DETERMINED BY THE UTILITIES ENGINEER OR PERMIT AGENCY HAVING JURISDICTION, AT THE CONTRACTORS EXPENSE.

7) CONTRACTOR TO COMPLY WITH ALL FEDERAL, STATE AND LOCAL TRENCH SAFETY REGULATIONS.

FPUA COMMUNITY PROUD	BACKFILLING REQUIREMENTS			M-2
03-09 CONCRETE SLAB — REVISION:	SLL	JLC	APPD:	WATER/WASTEWATER ENGINEERING
DESIGNED: JLC	COMPUTER FILE #: MISC. DETAILS 200902.DWG			FT. PIERCE UTILITIES AUTHORITY
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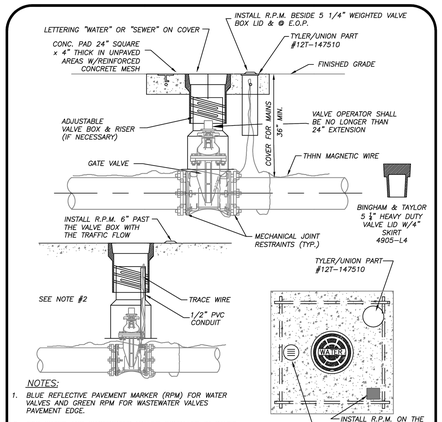
APPROVED: JLC	DATE: 2015	SHEET: 1 OF 1		



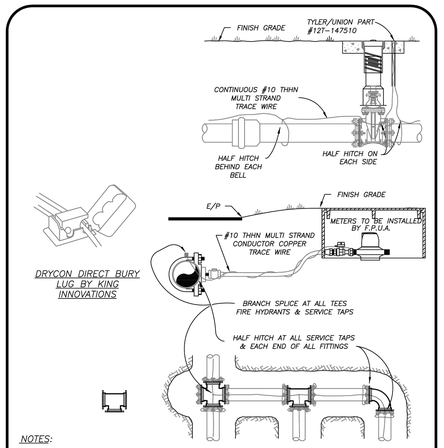
NOTES:

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 RISERS ONLY IF A VALVE BOX IS NOT MANUFACTURED FOR THAT DEPTH. NO PVC RISERS SHALL BE USED IN ANY CIRCUMSTANCES.

TYPICAL GATE VALVE & VALVE BOX DETAIL

N.T.S.

FPUA COMMUNITY PROUD	TYPICAL GATE VALVE & VALVE BOX DETAIL			M-6
03-09 CONCRETE SLAB — REVISION:	SLL	JLC	APPD:	WATER/WASTEWATER ENGINEERING
DESIGNED: JLC	COMPUTER FILE #: MISC. DETAILS 200902.DWG			FT. PIERCE UTILITIES AUTHORITY
DRAWN BY: SLL	SCALE: N.T.S.			
APPROVED: JLC	DATE: 2015	SHEET: 1 OF 1		



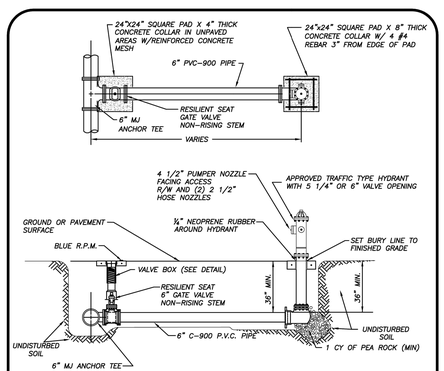
DRYCON DIRECT BURY LUG BY KING INNOVATIONS

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.

TRACE WIRE
(N.T.S.)

FPUA COMMUNITY PROUD	TRACE WIRE DETAIL			M-11
03-09 CONCRETE SLAB — REVISION:	SLL	JLC	APPD:	WATER/WASTEWATER ENGINEERING
DESIGNED: JLC	COMPUTER FILE #: MISC. DETAILS 200902.DWG			FT. PIERCE UTILITIES AUTHORITY
DRAWN BY: SLL	SCALE: N.T.S.			
APPROVED: JLC	DATE: 2015	SHEET: 1 OF 1		

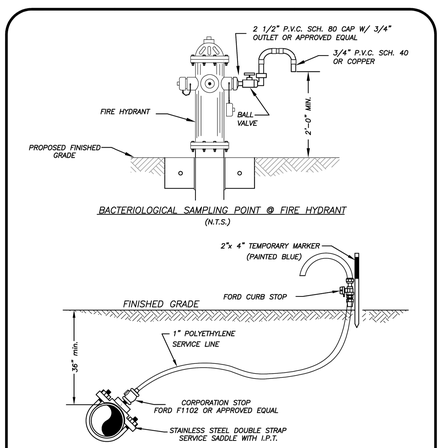


NOTES:

1. HYDRANT SHALL BE INSTALLED PLUMB & TRUE.
2. HYDRANT SHALL BE PAINTED CARNIVAL RED FROM FACTORY.
3. HEEL TO REST IN UNDISTURBED SOIL.
4. THE ONLY HYDRANTS ACCEPTABLE ARE: MUELLER SUPER CENTURION 250 OR AMERICAN DARLING B-84-B-5.
5. HYDRANT ASSEMBLY MUST BE RESTRAINED TO TEE.
6. ALL FITTINGS SHALL BE MECHANICAL JOINT.
7. ENTIRE ASSEMBLY TO BE MECHANICALLY RESTRAINED.
8. BLUE LOCATOR SHALL BE PLACED IN CENTER OF TRAVEL LANE CLOSEST TO HYDRANT.
9. ALL HYDRANT VALVE BOX COVERS SHALL BE PAINTED CARNIVAL RED.
10. LOCATE WIRE SHALL TERMINATE AT HYDRANT ISOLATION VALVE
11. HYDRANTS SHALL BE NO MORE THAN FIFTEEN FEET (15 FT.) FROM THE CURB OF ROADWAYS OR FROM THE EDGE OF PAVEMENT. CLEARANCES OF SEVEN AND ONE HALF FEET (7FT-6IN.) IN FRONT OF AND TO THE SIDES OF THE FIRE HYDRANTS, WITH FOUR FOOT (4 FT.) CLEARANCE TO THE REAR OF HYDRANTS SHALL BE MAINTAINED.

TYPICAL FIRE HYDRANT ASSEMBLY
(N.T.S.)

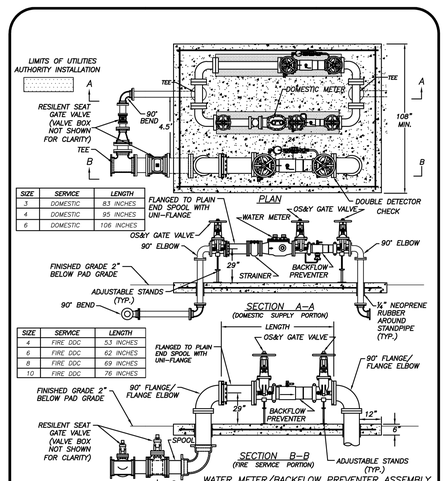
FPUA COMMUNITY PROUD	TYPICAL FIRE HYDRANT ASSEMBLY			W-5
03-09 DESIGN — REVISION:	SLL	JLC	APPD:	WATER/WASTEWATER ENGINEERING
DESIGNED: JLC	COMPUTER FILE #: MISCDETAIL.DWG			FT. PIERCE UTILITIES AUTHORITY
DRAWN BY: SLL	SCALE: N.T.S.			
APPROVED: JLC	DATE: 2010	SHEET: 1 OF 1		



NOTE:

AFTER TESTING REMOVE 1" P.E. LINE AND CAP WITH BRASS PLUG AT CORPORATION STOP.

FPUA COMMUNITY PROUD	BACTERIOLOGICAL SAMPLING PONIT DETAIL			W-6
03-09 02-15 — REVISION:	SLL	JLC	APPD:	WATER/WASTEWATER ENGINEERING
DESIGNED: JLC	COMPUTER FILE #: MISCDETAIL.DWG			FT. PIERCE UTILITIES AUTHORITY
DRAWN BY: SLL	SCALE: N.T.S.			
APPROVED: JLC	DATE: 2010	SHEET: 1 OF 1		



SIZE	SERVICE	LENGTH
3	DOMESTIC	83 INCHES
4	DOMESTIC	95 INCHES
6	DOMESTIC	106 INCHES

SIZE	SERVICE	LENGTH
4	FIRE DDC	53 INCHES
6	FIRE DDC	62 INCHES
8	FIRE DDC	69 INCHES
10	FIRE DDC	76 INCHES

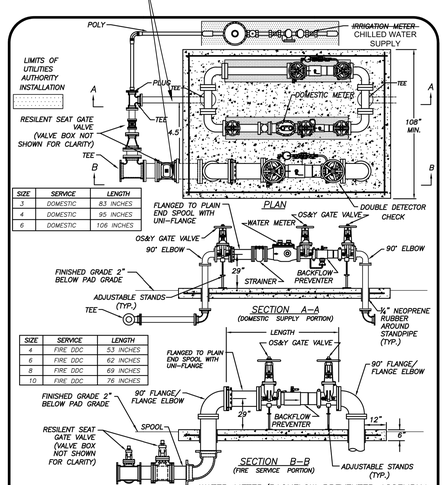
WATER METER/BACKFLOW PREVENTER ASSEMBLY FIRE SERVICE WITH DOMESTIC SUPPLY
(N.T.S.)

NOTES:

1. LANDSCAPING IS REQUIRED PER CITY OF FORT PIERCE OR ST. LUCIE COUNTY ORDINANCE. NO PLANTS OR TREES WITHIN 36" AROUND METER TO ALLOW MAINTENANCE WITHOUT DAMAGE TO PLANTS ETC.
2. NO SOLDER JOINTS.
3. ASSEMBLY TO BE 29" FROM FINISH GRADE TO CENTERLINE OF THE FLANGED 90° BEND.
4. DOMESTIC SERVICE 2" OR LESS, USE 2" POLY STUBBED 12" ABOVE GRADE.
5. ALL CONCRETE SHALL HAVE FIBERGLASS MESH REINFORCEMENT WITH #4 REBAR 3" FROM THE OUTER PERIMETER

FPUA COMMUNITY PROUD	WATER METER/BACKFLOW PREVENTER FIRE SERVICE WITH DOMESTIC SUPPLY			W-11
03-09 CONCRETE PAD — REVISION:	SLL	JLC	APPD:	WATER/WASTEWATER ENGINEERING
DESIGNED: JLC	COMPUTER FILE #: WATER DETAILS 200902.DWG			FT. PIERCE UTILITIES AUTHORITY
DRAWN BY: SLL	SCALE: N.T.S.			
APPROVED: JLC	DATE: 2010	SHEET: 1 OF 1		

DOMESTIC METER AND DDCV LOCATIONS AS SHOWN IN THIS DETAIL ARE TO BE SWAPPED FOR THE WESTWOOD HIGH SCHOL EAST METER BANK



SIZE	SERVICE	LENGTH
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4	DOMESTIC	95 INCHES
6	DOMESTIC	106 INCHES

SIZE	SERVICE	LENGTH
4	FIRE DDC	53 INCHES
6	FIRE DDC	62 INCHES
8	FIRE DDC	69 INCHES
10	FIRE DDC	76 INCHES

WATER METER/BACKFLOW PREVENTER ASSEMBLY FIRE SERVICE WITH DOMESTIC SUPPLY PLUS IRRIGATION
(N.T.S.)

NOTES:

1. LANDSCAPING IS REQUIRED PER CITY OF FORT PIERCE OR ST. LUCIE COUNTY ORDINANCE. NO PLANTS OR TREES WITHIN 36" AROUND METER TO ALLOW MAINTENANCE WITHOUT DAMAGE TO PLANTS ETC.
2. NO SOLDER JOINTS.
3. ASSEMBLY TO BE 29" FROM FINISH GRADE TO CENTERLINE OF THE FLANGED 90° BEND.
4. DOMESTIC SERVICE 2" OR LESS, USE 2" POLY STUBBED 12" ABOVE GRADE.
5. ALL CONCRETE SHALL HAVE FIBERGLASS MESH REINFORCEMENT WITH #4 REBAR 3" FROM THE OUTER PERIMETER.

FPUA COMMUNITY PROUD	WATER METER/BACKFLOW PREVENTER FIRE SERVICE WITH DOMESTIC SUPPLY PLUS IRRIGATION			W-11A
03-09 DDC VALVE — REVISION:	SLL	JLC	APPD:	WATER/WASTEWATER ENGINEERING
DESIGNED: JLC	COMPUTER FILE #: WATER DETAILS 200902.DWG			FT. PIERCE UTILITIES AUTHORITY
DRAWN BY: SLL	SCALE: N.T.S.			
APPROVED: JLC	DATE: 2010	SHEET: 1 OF 1		

5

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schenkelshultz.com
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2980 SOUTH 25th STREET • FORT PIERCE, FLORIDA 34981
PHONE 772-464-3537 • FAX 772-464-9497 • www.ct-eng.com
STATE OF FLORIDA BOARD OF PROFESSIONAL ENGINEERS AUTHORIZATION NO. 4286

REVISIONS

MARK	DESCRIPTION	DATE
5	ASI NO. 5	4/12/24

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FORT PIERCE WESTWOOD ACADEMY

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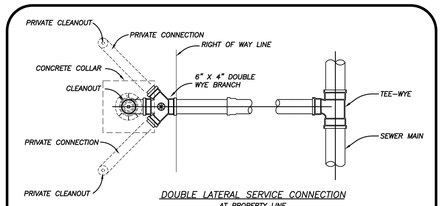
St. Lucie Public Schools
9461 Brandywine Ln
Port St. Lucie, FL 34986

ISSUE DATE: 10/10/23
COMM NO.: 2022108

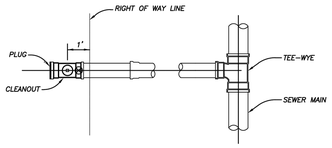
DRAWN BY: ZM CHECKED BY: KEC

UTILITY DETAILS

C600



DOUBLE LATERAL SERVICE CONNECTION
AT PROPERTY LINE

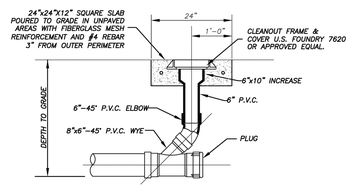


SINGLE SERVICE LATERAL CONNECTION

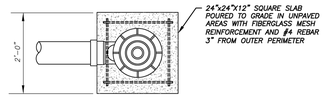
Ⓦ = BALL TYPE WASTEWATER LOCATOR INSTALLED ABOVE THIS POINT
BALL BY 3M CORP. OR APPROVED EQUAL
SERVICE LATERAL SHALL TERMINATE WITH A CLEANOUT

SERVICE CONNECTION
(N.T.S.)

FPUA COMMUNITY PROUD — FT. PIERCE UTILITIES AUTHORITY, WATER/WASTEWATER/ELECTRIC ENGINEERING, 1101 SOUTH 5TH STREET, FT. PIERCE, FLORIDA 34947, 772-466-1600	SERVICE CONNECTION — WASTEWATER		S-3
02-06 DATE:	REVISION:	BY:	APPD:
DESIGNED: JLC	COMPUTER FILE # SEWER DETAIL 200602.DWG		WATER/WASTEWATER ENGINEERING
DRAWN BY: SLL	SCALE: N.T.S.		FT. PIERCE UTILITIES AUTHORITY
APPROVED: JLC	DATE: 2010	SHEET 1 OF 1	



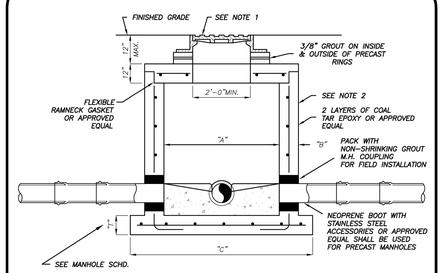
SECTION



PLAN

TERMINAL CLEANOUT DETAIL (COMMERCIAL)
(N.T.S.)

FPUA COMMUNITY PROUD — FT. PIERCE UTILITIES AUTHORITY, WATER/WASTEWATER/ELECTRIC ENGINEERING, 1101 SOUTH 5TH STREET, FT. PIERCE, FLORIDA 34947, 772-466-1600	TERMINAL CLEANOUT DETAIL — WASTEWATER		S-4B
10-06 DATE:	REVISION:	BY: DRC	APPD:
DESIGNED: JLC	COMPUTER FILE # SEWER DETAIL 200602.DWG		WATER/WASTEWATER ENGINEERING
DRAWN BY: SLL	SCALE: N.T.S.		FT. PIERCE UTILITIES AUTHORITY
APPROVED: JLC	DATE: 2010	SHEET 2 OF 3	



PIPE DIA.	"A"	"B"	"C"	BOT. SLAB "T"
8"-24"	4'-0"	"8"	76"	8"
30"-36"	5'-0"	"8"	88"	10"
42"-48"	6'-0"	"8"	100"	12"

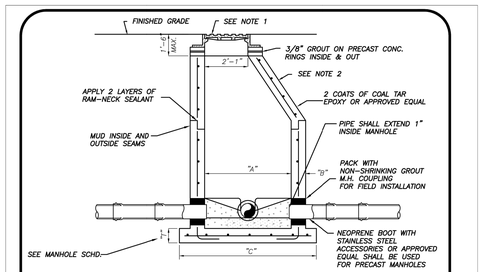
TYPICAL MANHOLE DIMENSIONS

NOTES:

1) MANHOLE FRAME & COVER WITH THE WORDS " SANITARY SEWER" CAST IN THE COVER. U.S. FOUNDRY 170 OR APPROVED EQUAL.
2) ALL CONCRETE MANHOLES TO BE 4000 P.S.I. TO MEET OR EXCEED ASTM C478 ALL CEMENT TO BE TYPE II ACID RESISTANT. REINFORCING AREA OF 0.02 SQ. IN/FT FOR WALL SECTION MIN. TO MEET OR EXCEED ASTM A 185.
3) A MAXIMUM OF 2 LAYERS OF PRECAST CONCRETE RINGS, IF REQUIRED.
4) RAIN GUARDS SHALL BE INSTALLED IN MANHOLES THAT HAVE GRAVITY MAINS 12" OR LESS.

SHALLOW MANHOLE
DEPTH OF LESS THAN 5'-0"
(N.T.S.)

FPUA COMMUNITY PROUD — FT. PIERCE UTILITIES AUTHORITY, WATER/WASTEWATER/ELECTRIC ENGINEERING, 1101 SOUTH 5TH STREET, FT. PIERCE, FLORIDA 34947, 772-466-1600	PRECAST MANHOLE DEPTH OF LESS THAN 5'- 0"		S-6
02-06 DATE:	REVISION:	BY:	APPD:
DESIGNED: JLC	COMPUTER FILE # SEWER DETAIL 200602.DWG		WATER/WASTEWATER ENGINEERING
DRAWN BY: SLL	SCALE: N.T.S.		FT. PIERCE UTILITIES AUTHORITY
APPROVED: JLC	DATE: 2010	SHEET 1 OF 1	



PIPE DIA.	"A"	"B"	"C"	BOT. SLAB "T"
8"-24"	4'-0"	"8"	76"	8"
30"-36"	5'-0"	"8"	88"	10"
42"-48"	6'-0"	"8"	100"	12"

TYPICAL MANHOLE DIMENSIONS

NOTES:

1) MANHOLE FRAME & COVER WITH THE WORDS " SANITARY SEWER" CAST IN THE COVER. U.S. FOUNDRY 170 OR APPROVED EQUAL.
2) ALL CONCRETE MANHOLES TO BE 4000 P.S.I. TO MEET OR EXCEED ASTM C478 ALL CEMENT TO BE TYPE II ACID RESISTANT. REINFORCING AREA OF 0.02 SQ. IN/FT FOR WALL SECTION MIN. TO MEET OR EXCEED ASTM A 185.
3) A MAXIMUM OF 2 LAYERS OF PRECAST CONCRETE RINGS, IF REQUIRED.
4) RAIN GUARDS SHALL BE INSTALLED IN MANHOLES THAT HAVE GRAVITY MAINS 12" OR LESS.

STANDARD MANHOLE
DEPTH 5'-0" AND GREATER
(N.T.S.)

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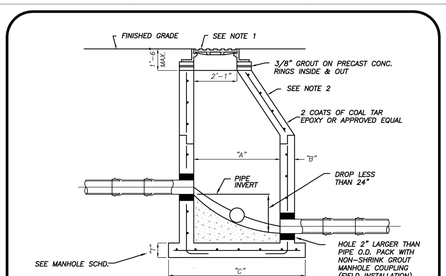
02-06 DATE:	REVISION:	BY:	APPD:
DESIGNED: JLC	COMPUTER FILE # SEWER DETAIL 200602.DWG		WATER/WASTEWATER ENGINEERING
DRAWN BY: SLL	SCALE: N.T.S.		FT. PIERCE UTILITIES AUTHORITY
APPROVED: JLC	DATE: 2010	SHEET 1 OF 1	



PIPE DIA.	"A"	"B"	"C"	BOT. SLAB "T"
8"-24"	4'-0"	"8"	76"	8"
30"-36"	5'-0"	"8"	88"	10"
42"-48"	6'-0"	"8"	100"	12"

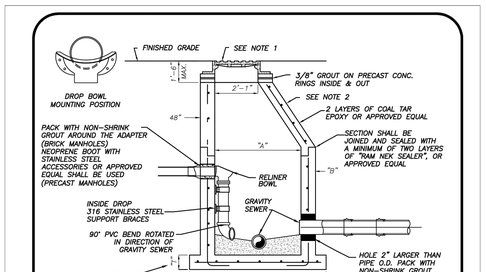
TYPICAL MANHOLE DIMENSIONS

NOTES:

1) MANHOLE FRAME & COVER WITH THE WORDS " SANITARY SEWER" CAST IN THE COVER. U.S. FOUNDRY 170 OR APPROVED EQUAL.
2) ALL CONCRETE MANHOLES TO BE 4000 P.S.I. TO MEET OR EXCEED ASTM C478 ALL CEMENT TO BE TYPE II ACID RESISTANT. REINFORCING AREA OF 0.02 SQ. IN/FT FOR WALL SECTION MIN. TO MEET OR EXCEED ASTM A 185.
3) A MAXIMUM OF 2 LAYERS OF PRECAST CONCRETE RINGS, IF REQUIRED.
4) RAINGUARDS SHALL BE INSTALLED IN MANHOLES THAT HAVE GRAVITY MAINS 12" OR LESS.

INSIDE DROP MANHOLE
(TO BE USED WHERE DROP IS LESS THAN 2')
(N.T.S.)

FPUA COMMUNITY PROUD — FT. PIERCE UTILITIES AUTHORITY, WATER/WASTEWATER/ELECTRIC ENGINEERING, 1101 SOUTH 5TH STREET, FT. PIERCE, FLORIDA 34947, 772-466-1600	INSIDE DROP MANHOLE (TO BE USED WHERE DROP IS LESS THAN 2')		S-9
02-06 DATE:	REVISION:	BY:	APPD:
DESIGNED: JLC	COMPUTER FILE # SEWER DETAIL 200602.DWG		WATER/WASTEWATER ENGINEERING
DRAWN BY: SLL	SCALE: N.T.S.		FT. PIERCE UTILITIES AUTHORITY
APPROVED: JLC	DATE: 2010	SHEET 1 OF 1	



PIPE DIA.	"A"	"B"	"C"	BOT. SLAB "T"
8"-24"	5'-0"	"8"	70"	8"
30"-36"	6'-0"	"8"	84"	10"
42"-48"	7'-0"	"8"	96"	12"

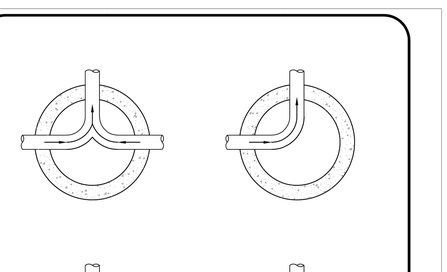
TYPICAL MANHOLE DIMENSIONS

NOTES:

1) MANHOLE FRAME & COVER WITH THE WORDS " SANITARY SEWER" CAST IN THE COVER. U.S. FOUNDRY 170 OR APPROVED EQUAL.
2) ALL CONCRETE MANHOLES TO BE 4000 P.S.I. TO MEET OR EXCEED ASTM C478 ALL CEMENT TO BE TYPE II ACID RESISTANT. REINFORCING AREA OF 0.20IN/FT FOR WALL SECTION MIN. TO MEET OR EXEED ASTM A 185.
3) A MAXIMUM OF 2 LAYERS OF PRECAST CONCRETE RINGS, IF REQUIRED.
4) ONLY RELINER/DURAN, INC. PRODUCTS ARE APPROVED FOR CONSTRUCTING INSIDE DROP ASSEMBLIES.

INSIDE DROP MANHOLE
(TO BE USED WHERE DROP IS GREATER THAN 2')

FPUA COMMUNITY PROUD — FT. PIERCE UTILITIES AUTHORITY, WATER/WASTEWATER/ELECTRIC ENGINEERING, 1101 SOUTH 5TH STREET, FT. PIERCE, FLORIDA 34947, 772-466-1600	INSIDE DROP MANHOLE		S-9A
03-08 INSIDE DROP MANHOLE	SLL	JLC	
DESIGNED: JLC	COMPUTER FILE # SEWER DETAIL 200602.DWG		WATER/WASTEWATER ENGINEERING
DRAWN BY: SLL	SCALE: N.T.S.		FT. PIERCE UTILITIES AUTHORITY
APPROVED: JLC	DATE: 2014	SHEET 1 OF 1	



NOTES:

1) INVERT CHANNELS TO BE CONSTRUCTED FOR SMOOTH FLOW WITH NO OBSTRUCTIONS.
2) SPILLWAYS SHALL BE CONSTRUCTED BETWEEN PIPES WITH DIFFERENT INVERT ELEVATIONS PROVIDING FOR SMOOTH FLOWS.

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DATE:	REVISION:	BY:	APPD:
DESIGNED: JLM	COMPUTER FILE # SEWER DETAIL 200602.DWG		WATER/WASTEWATER ENGINEERING
DRAWN BY: JLM	SCALE: N.T.S.		FT. PIERCE UTILITIES AUTHORITY
APPROVED: JLC	DATE: 2010	SHEET 1 OF 1	

5

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REVISIONS

MARK	DESCRIPTION	DATE
5	ASI NO. 5	4/12/24

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FORT PIERCE WESTWOOD ACADEMY

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St. Lucie PUBLIC SCHOOLS

St. Lucie Public Schools
9461 Brandywine Ln
Port St. Lucie, FL 34986

ISSUE DATE: 10/10/23
COMM NO.: 2022108
DRAWN BY: ZM CHECKED BY: KEC

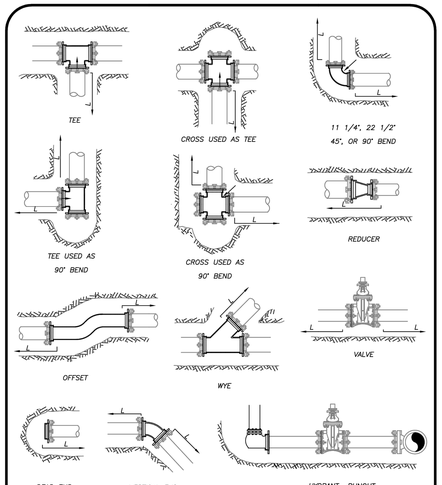
UTILITY DETAILS

C601

PHASE-3 CONSTRUCTION DOCUMENTS

C602 UTILITY DETAILS

5/19/2022 4:10:59 PM



MECHANICAL JOINT ANCHORING REQUIREMENTS
N.T.S.

FPUA COMMUNITY PROUD	MECHANICAL JOINT ANCHORING REQUIREMENTS	M-3
02-08 DATE:	CONCRETE SLAB REVISION:	SLL BY: / JLC APPD:
DESIGNED: JJM	COMPUTER FILE # DETAIL NOTES 2020G02.DWG	WATER/WASTEWATER ENGINEERING
DRAWN BY: SLL	SCALE: N.T.S.	FT. PIERCE UTILITIES AUTHORITY
APPROVED: JLC	DATE: 2015	SHEET 1 OF 1

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 POLYVINYL CHLORIDE (PVC) SHALL CONFORM TO AWWA C-900 OR C-905, PRESSURE CLASS 150, DR (18). WATER MAINS WHERE SPECIFIED AS POLYETHYLENE (PE) SHALL CONFORM TO AWWA C-901 OR C-906, STANDARD CODE DESIGNATION PE3408, PIPE CLASS 200, DIMENSION RATIO (DR) 17 FOR DIRECT BURY, (DR) 11 FOR DIRECTIONAL BORING, AND (DR) 9 FOR 2 INCH AND SMALLER PIPELINES.
3. WATER MAIN, WHERE SPECIFIED AS DUCTILE IRON PIPE , SHALL CONFORM TO ANSI/AWWA C151/A21.51 AND SHALL BE PRESSURE CLASS 250 (MINIMUM).
4. POLYVINYL CHLORIDE 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 THHN WIRE.
5. FITTINGS SHALL BE DUCTILE IRON CONFORMING TO ANSI/AWWA C-110/A21.10, CLASS 250 MIN., CEMENT LINED AND FACTORY COATED
6. GATE VALVES SHALL BE MUELLER RESILIENT SEAT, KENNDY KEN-SEAL, AMERICAN OR APPROVED EQUAL. VALVES SHALL CONFORM TO AWWA C-509.
7. WATER LINES SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH FPUA DESIGN AND CONSTRUCTION STANDARDS. THE CONTRACTOR SHALL SUBMIT CERTIFIED DENSITY TESTS AS REQUIRED BY FPUA ENGINEERING AND THE CITY, COUNTY, FDOT. IN CASES WHERE PAVED AREAS FALL WITHIN THE JURISDICTION OF LOCAL OR STATE AGENCIES, THE COMPACTION 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 FPUA ENGINEER AND CITY/COUNTY/FDOT ENGINEER.
9. THE CONTRACTOR SHALL NOTIFY FPUA ENGINEERING AND CITY/COUNTY/FDOT ENGINEERING 48 HOURS PRIOR TO COMMENCING CONSTRUCTION.
10. A PRE-CONSTRUCTION CONFERENCE BETWEEN THE ENGINEER, THE CONTRACTOR, FPUA, AND CITY/ COUNTY/FDOT 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 36 INCHES EXCEPT AS APPROVED BY THE UTILITIES ENGINEER AND CITY/ COUNTY/FDOT ENGINEER. PIPES WITH COVER LESS THAN 30 INCHES SHALL BE CONSTRUCTED OF DUCTILE IRON OR IN PVC 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 DISINFECTED IN ACCORDANCE WITH THE APPLICABLE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION AND AWWA C-651 FOR DISINFECTION.

FORT PIERCE UTILITIES AUTHORITY	WATER DISTRIBUTION NOTES	G-1 NOTES
02-08 DATE:	REVISION:	BY: / APPD: WATER/WASTEWATER ENGINEERING
DESIGNED: JJM	COMPUTER FILE # DETAIL NOTES 2020G02.DWG	FT. PIERCE UTILITIES AUTHORITY
DRAWN BY: SLL	SCALE: N.T.S.	
APPROVED: JLC	DATE: 2015	SHEET 1 OF 2

MECHANICAL JOINT RESTRAINT NOTES

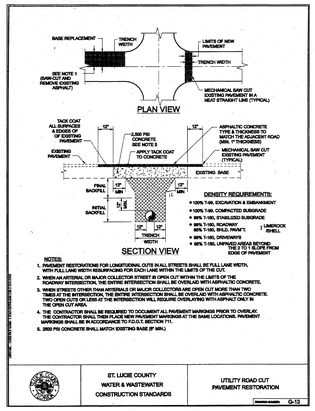
NOTES:

1) THE ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING THE REQUIRED LENGTH TO BE RESTRAINED BASED UPON THE PROJECT AREA SOIL TYPE, PROPOSED TRENCH CONDITIONS AND DEPTH, PRESSURE OF 150 PSI, AND A SAFETY FACTOR OF TWO (2). A DRAWING OF EVERY TYPICAL FITTING ASSEMBLY WITHIN THE PROJECT SHALL BE SUBMITTED WHICH REFLECTS THE RESTRAINT DETAIL PROPOSED FOR USE, INCLUDING LENGTH OF PIPE RESTRAINT.

2) REQUIRED RESTRAINED LENGTH CALCULATIONS SHALL ALSO CONSIDER THE CONDITIONS OF OTHER BENDS OR FITTINGS THAT WILL BE LOCATED WITHIN THE CALCULATED RESTRAINED LENGTH (L) OF THE BEND OR FITTING IN QUESTION.

3) EVERY JOINT OR FITTING MUST BE RESTRAINED ON BOTH SIDES OF THE BEND AND FOR TEES ALONG THE BEND ALSO.

FPUA COMMUNITY PROUD	MECHANICAL JOINT RESTRAINT NOTES	M-4
02-09 DATE:	CONCRETE SLAB REVISION:	SLL BY: / JLC APPD:
DESIGNED: JJM	COMPUTER FILE # MISC. DETAILS 2020G02.DWG	WATER/WASTEWATER ENGINEERING
DRAWN BY: SLL	SCALE: N.T.S.	FT. PIERCE UTILITIES AUTHORITY
APPROVED: JLC	DATE: 2015	SHEET 1 OF 1



NOTES:
1. PAVEMENT RESTORATIONS FOR LONGITUDINAL CUTS IN ALL STREETS SHALL BE FULL LANE WIDTH, WITH FULL LANE WIDTH RESURFACING FOR ADJACENT LANES WITHIN 1'-0" OF CUT.
2. WHEN AN ARTERIAL OR MAJOR COLLECTOR STREET IS OPEN CUT MORE THAN 1/2 WIDTH OF THE STREET, THE ENTIRE STREET SHALL BE OVERLAID WITH ASPHALTIC CONCRETE.
3. WHEN STREETS OTHER THAN ARTERIALS OR MAJOR COLLECTORS ARE OPEN CUT MORE THAN TWO TIMES AT THE INTERSECTION, THE ENTIRE INTERSECTION SHALL BE OVERLAID WITH ASPHALTIC CONCRETE. IF THE DISTANCE BETWEEN CUTS AT THE INTERSECTION WILL REQUIRE OVERLAYING WITH ASPHALT ONLY IN THE OPEN CUT AREA.
4. THE CONTRACTOR SHALL BE REQUIRED TO DOCUMENT ALL PAVEMENT MARKINGS PRIOR TO OVERLAY. THE CONTRACTOR SHALL THEN PLACE NEW PAVEMENT MARKINGS AT THE SAME LOCATIONS. PAVEMENT MARKINGS SHALL BE IN ACCORDANCE TO F.D.O.T. SECTION 711.
5. 3000 PSI CONCRETE SHALL MATCH EXISTING BASE (6" MIN.)

	ST. LUCIE COUNTY WATER & WASTEWATER CONSTRUCTION STANDARDS	UTILITY ROAD CUT PAVEMENT RESTORATION G-13

FORT PIERCE UTILITIES AUTHORITY	PAVEMENT RESTORATION (COUNTY)	R-2
DATE:	REVISION:	BY: / APPD: WATER/WASTEWATER ENGINEERING
DESIGNED: JJM	COMPUTER FILE # MISC. DETAILS 2020G02.DWG	FT. PIERCE UTILITIES AUTHORITY
DRAWN BY: JJM	SCALE: N.T.S.	
APPROVED: JLC	DATE: 2010	SHEET 1 OF 1

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 MAIN SHALL BE POLYVINYL CHLORIDE SDR-26, GREEN OR WHITE IN COLOR, GRAVITY SEWER MAIN SHALL HAVE LOCATOR TAPE WITH "SEWER" MARKED ON TAPE AND SHALL CONFORM TO ASTM D-3034.
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 FPUA DESIGN AND CONSTRUCTION STANDARDS. THE CONTRACTOR SHALL SUBMIT CERTIFIED DENSITY TESTS AS REQUIRED BY FPUA ENGINEERING AND THE CITY ENGINEERING DEPARTMENT. IN CASES WHERE PAVED AREAS FALL WITHIN THE JURISDICTION OF LOCAL OR STATE AGENCIES, THE COMPACTION REQUIRE-MENTS SHALL NOT BE LESS THEN THE MINIMUM REQUIRED BY THE APPROPRIATE RESPONSIBLE AGENCY.
5. A 1% MINIMUM SLOPE SHALL BE MAINTAINED ON ALL SANITARY SERVICE LATERALS.
6. THE CONTRACTOR SHALL FURNISH RECORD DRAWING INFORMATION TO THE ENGINEER CONSISITING OF PIPE SIZES, LOCATION OF SERVICE TEE WYES, DIAMETER OF SERVICES, LOCATION OF ANY FITTINGS, FINAL RIM AND INVERT ELEVATION OF ALL MANHOLES AND ANY OTHER PERTINENT INFORMATION NECESSARY TO LOCATE ITEMS 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 SHOULD CROSS UNDER WATER MAINS WHENEVER POSSIBLE. A MINIMUM VERTICAL DISTANCE 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 SEPARATION CANNOT BE MAINTAINED, THE CROSSING SHALL BE ARRANGED SO THAT THE WASTEWATER PIPE JOINTS AND THE WATER PIPE JOINTS ARE EQUIDISTANCE 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 SEPARATION OF 10 FEET 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 6 INCHES MUST BE MAINTAINED AT ALL CROSSINGS.
9. A PRE-CONSTRUCTION CONFERENCE BETWEEN THE ENGINEER, THE CONTRACTOR, AND FPUA/CITY COUNTY/FDOT SHALL BE MANDATORY PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
10. NO FIELD CHANGES OR DEVIATIONS FORM THE DESIGN SHALL BE MADE WITHOUT PRIOR APPROVAL FPUA/CITY/COUNTY/FDOT 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 COMMMENCING CONSTRUCTION.
13. WASTEWATER FORCE MAIN SHALL BE POLYVINYL CHLORIDE CONFORMING TO AWWA C-900, AND SHALL BE CLASS 150, DR-18.
14. WASTEWATER FORCE MAIN SHALL BE GREEN IN COLOR.
15. FITTINGS SHALL BE DUCTILE IRON, CONFORMING TO ANSI/AWWA C-110/A21.10 CLASS 250 MIN. AND INTERIOR EPOXY COATED.
16. WASTEWATER FORCE MAIN SHALL BE MARKED BY THE USE OF CONTINUOUS 10 GAUGE THHN WIRE (GREEN IN COLOR) PERMANENTLY ATTACHED TO THE TOP OF THE FORCE MAIN WITH LOCATOR TAPE MARKED "SEWER" ON TAPE IN ACCORDANCE WITH FPUA SPECIFICATIONS.
17. MINIMUM COVER SHALL BE 36 INCHES, PIPES WITH COVER LESS THAN 30 INCHES SHALL REQUIRE PRIOR APPROVAL OF THE UTILITIES ENGINEER AND SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE.
18. EACH SERVICE LATERAL WILL BE MARKED WITH A LOCATOR BALL AS MANUFACTURED BY 3M CORPORATION, OR APPROVED EQUAL AS REQUIRED BY FPUA ENGINEER.
19. ALL MANHOLES SHALL HAVE SEWER RAIN GUARDS INSTALLED AS REQUIRED BY FPUA ENGINEER.
20. THE CONTRACTOR SHALL COMPLY WITH THE FLORIDA TRENCH SAFETY ACT REQUIREMENTS.

FORT PIERCE UTILITIES AUTHORITY	WASTEWATER CONSTRUCTION NOTES FPUA REQUIREMENTS	G-2 CONSTRUCTION NOTES
02-08 DATE:	REVISION:	BY: / APPD: WATER/WASTEWATER ENGINEERING
DESIGNED: JJM	COMPUTER FILE # DETAIL NOTES 2020G02.DWG	FT. PIERCE UTILITIES AUTHORITY
DRAWN BY: SLL	SCALE: N.T.S.	
APPROVED: JLC	DATE: 2019	SHEET 1 OF 1

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STATE OF FLORIDA BOARD OF PROFESSIONAL ENGINEERS AUTHORIZATION NO. 4286

REVISIONS

MARK	DESCRIPTION	DATE
5	ASI NO. 5	4/12/24

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FORT PIERCE WESTWOOD ACADEMY

1801 PANTHER LANE, FT PIERCE , FL 34947

St. Lucie PUBLIC SCHOOLS

St. Lucie Public Schools
9461 Brandywine Ln
Port St. Lucie, FL 34986

ISSUE DATE: 10/10/23
COMM NO.: 2022108
DRAWN BY: ZM CHECKED BY: KEC

UTILITY DETAILS

C602

PIPE CROSSING TABLE

CROSSING #	TYPE	CLEARANCE (feet)	BOTTOM OF TOP PIPE (ELEV.)	BOTTOM OF TOP PIPE AS-BUILT	BOTTOM OF TOP PIPE (TYPE)	TOP OF BOTTOM PIPE (ELEV)	TOP OF BOTTOM PIPE AS-BUILT	TOP OF BOTTOM PIPE (TYPE)	FINISH GRADE (ELEV)	FINISH GRADE AS-BUILT
C-1	18" RCP STORM OVER 6" WM	1.00	16.90		STM (RCP)	15.90		STM (RCP)	20.45	
C-2	18" RCP STORM OVER 6" WM	1.02	16.92		WM (PVC)	15.90		STM (RCP)	20.42	
C-4	12" HDPE STORM OVER 3" WS	1.00	17.60		STM (HDPE)	16.60		WM (PVC)	21.29	
C-7	6" WM OVER 24" RCP STORM	1.13	17.57		WM (PVC)	16.44		STM (RCP)	20.68	
C-8	6" WM OVER 24" RCP STORM	1.07	17.57		WM (PVC)	16.50		STM (RCP)	20.79	
C-9	2" WM OVER 24" RCP STORM	1.00	17.57		WM (PE)	16.57		STM (RCP)	20.90	
C-9A	2" WM OVER 6 WM	1.00	18.30		WM (PE)	17.30		WM (PVC)	21.90	
C-10	6" WM OVER 24" RCP STORM	1.00	17.67		WM (PVC)	16.67		STM (RCP)	20.75	
C-11	6" WM OVER 24" RCP STORM	1.02	17.67		WM (PVC)	16.65		STM (RCP)	20.88	
C-12	2" WM OVER 24" RCP STORM	1.04	17.67		WM (PE)	16.63		STM (RCP)	21.02	
C-13	6" WM OVER 48" RCP STORM	1.57	17.49		WM (PVC)	15.92		STM (RCP)	21.04	
C-14	6" WM OVER 48" RCP STORM	1.44	17.36		WM (PVC)	15.92		STM (RCP)	20.91	
C-15	12" HDPE STORM OVER 6" WM	1.00	17.50		STM (PVC)	16.50		WM (PVC)	20.81	
C-16	12" HDPE STORM OVER 6" WM	1.00	17.45		STM (PVC)	16.45		WM (PVC)	20.60	
C-17	6" WM OVER 6" WM	1.20	16.80		WM (PVC)	15.60		WM (PVC)	21.60	
C-18	6" WS OVER 6" WM	1.00	16.90		WS (PVC)	15.90		WM (PVC)	21.32	
C-19	6" WM OVER 6" WM	1.05	16.80		WM (PVC)	15.75		WM (PVC)	22.32	

NOTES:
1. THE CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FROM THE ENGINEER OF RECORD FOR ANY CROSSING THAT IS FIELD ADJUSTED TO LESS THAN 1.00' OF VERTICAL SEPARATION (OTHER THAN ONES ALREADY DETAILED AS SUCH ON THIS SHEET).
2. PIPE JOINTS SHALL BE EVENLY SPACED OFF CENTER FROM CROSSINGS WHEN ALLOWABLE.

PIPE CROSSING TABLE

CROSSING #	TYPE	CLEARANCE (feet)	BOTTOM OF TOP PIPE (ELEV.)	BOTTOM OF TOP PIPE AS-BUILT	BOTTOM OF TOP PIPE (TYPE)	TOP OF BOTTOM PIPE (ELEV)	TOP OF BOTTOM PIPE AS-BUILT	TOP OF BOTTOM PIPE (TYPE)	FINISH GRADE (ELEV)	FINISH GRADE AS-BUILT	
C-20	6" WM OVER 12" HDPE STORM	2.43	17.30		WM (PVC)	14.87		STM (HDPE)	20.85		
C-21	6" WM OVER 12" HDPE STORM	1.00	15.90		WM (PVC)	14.90		STM (HDPE)	20.88		
C-22	6" WM OVER 30" RCP STORM	1.00	17.36		WM (PVC)	16.36		STM (RCP)	20.60		
C-23	6" WM OVER 30" RCP STORM	1.00	17.37		WM (PVC)	16.37		STM (RCP)	20.63		
C-24	6" WM OVER 6" WM	1.25	16.90		WM (PVC)	15.65		WM (PVC)	21.59		
C-25	2 1/2" WS OVER 12" HDPE STORM	1.00	18.40		STM (HDPE)	17.40		WS (PVC)	21.28		
C-26	12" HDPE STORM OVER 6" WS	0.50	18.00		STM (HDPE)	17.50		WS (PVC)	21.43		
C-26A	6" WS OVER 6" WM	1.00	16.95		WS (PVC)	15.95		WM (PVC)	22.43		
C-27	12" HDPE STORM OVER 6" WM	1.79	17.84		STM (HDPE)	16.05		WM (PVC)	20.41		
C-28	12" HDPE STORM OVER 6" WM	1.00	17.83		STM (HDPE)	16.83		WM (PVC)	20.38		
C-29	6" WM OVER 6" WS	1.00	16.80		WM (PVC)	15.80		WS (PVC)	20.75		
C-29A	12" HDPE STORM OVER 2.5" WS	1.00	18.82		STM (HDPE)	17.82		WS (PVC)	21.75		
C-29B	12" HDPE STORM OVER 6" WS	2.85	18.90		STM (HDPE)	16.05		WS (PVC)	22.75		
C-30	18" RCP STORM OVER 6" WM	1.00	16.50		STM (RCP)	15.50		WM (PVC)	20.64		
C-31	18" RCP STORM OVER 2" WS	1.00	16.46		STM (RCP)	15.46		WS (PE)	20.54		
C-32	2 1/2" WM OVER 2" WM	1.00	17.10		WM (PVC)	16.10		WM (PE)	21.72		
C-33	2 1/2" WM OVER 6" WM	1.20	17.10		WM (PVC)	15.90		WM (PVC)	21.72		
C-34	" WM OVER 6" WM	1.00	16.90		WM (PVC)	15.90		WM (PVC)	21.45		
C-35	12" HDPE STORM OVER 4" SAN (PVC)	2.20	16.75		STM (HDPE)	14.55		SAN (PVC)	20.61		
C-36	18" HDPE STORM OVER 8" SAN (PVC)	2.20	16.97		STM (HDPE)	14.77		SAN (PVC)	20.53		
C-37	24" HDPE STORM OVER 6" SAN (PVC)	1.73	16.67		STM (HDPE)	14.94		SAN (PVC)	20.68		
C-38	12" HDPE STORM OVER 6" SAN (PVC)	2.96	18.06		STM (HDPE)	15.11		SAN (PVC)	21.60		
C-39	24" HDPE STORM OVER 4" SAN (PVC)	0.65	16.17		STM (HDPE)	15.52		SAN (PVC)	21.55		CONST MIN 10' SLEEVE CENTERED AT CROSSING
C-40	12" HDPE STORM OVER 6" SAN (PVC)	1.93	18.05		STM (HDPE)	16.12		SAN (PVC)	20.89		
C-41	12" HDPE STORM OVER 6" SAN (PVC)	1.11	18.33		STM (HDPE)	17.22		SAN (PVC)	21.51		
C-42	18" HDPE STORM OVER 8" SAN (PVC)	1.23	16.62		STM (HDPE)	15.39		SAN (PVC)	20.45		
C-43	18" HDPE STORM OVER 8" SAN (PVC)	2.94	17.18		STM (HDPE)	14.24		SAN (PVC)	20.41		
C-45	12" HDPE STORM OVER 6" WM (PVC)	1.00	18.15		STM (HDPE)	17.15		WM (PVC)	22.00		
C-46	12" HDPE STORM OVER 6" WM (PVC)	1.15	18.15		STM (HDPE)	17.00		WM (PVC)	22.00		
C-47	12" HDPE STORM OVER 2" WM (PE)	1.00	18.15		STM (HDPE)	17.15		WM (PE)	22.00		
C-48	12" HDPE STORM OVER 8" SAN (PVC)	4.67	18.48		STM (HDPE)	13.80		SAN (PVC)	22.00		
C-49	6" WM OVER 8" SAN (PVC)	3.27	16.80		WM (PVC)	13.53		SAN (PVC)	21.96		
C-50	6" WM OVER 8" SAN (PVC)	3.28	16.80		WM (PVC)	13.52		SAN (PVC)	21.92		
C-51	6" WM OVER 8" SAN (PVC)	3.29	16.80		WM (PVC)	13.51		SAN (PVC)	21.89		
C-52	6" WM OVER 2" WM	1.00	16.80		WM (PVC)	15.80		WM (PE)	21.54		
C-53A	12" HDPE STORM OVER 2" WM	1.00	17.75		STM (HDPE)	16.75		WM (PE)	21.45		
C-53B	12" HDPE STORM OVER 6" WM	1.02	17.77		STM (HDPE)	16.75		WM (PVC)	21.45		
C-53C	12" HDPE STORM OVER 6" WM	1.04	17.79		STM (HDPE)	16.75		WM (PVC)	21.45		
C-53D	12" HDPE STORM OVER 6" SAN (PVC)	2.35	18.25		STM (HDPE)	15.90		SAN (PVC)	21.64		
C-54	6" WM OVER GAS	1.00	17.35		WM (PVC)	16.35		GAS	20.90		
C-58	6" WM OVER 6" WM	1.30	16.80		WM (PVC)	15.50		WM (PVC)	20.99		
C-63	12" HDPE STORM OVER 2" WM	1.00	17.61		STM (HDPE)	16.61		WM (PE)	21.27		
C-64	12" HDPE STORM OVER 6" WM	1.53	17.63		STM (HDPE)	16.10		WM (PVC)	21.36		
C-65	12" HDPE STORM OVER 6" WM	0.80	17.65		STM (HDPE)	16.85		WM (PVC)	21.38		
C-67	24" RCP OVER 8" SAN (PVC)	4.25	16.83		STM (RCP)	12.58		SAN (PVC)	20.54		
C-68	48" RCP OVER 8" SAN (PVC)	4.94	16.49		STM (RCP)	11.55		SAN (PVC)	20.56		
C-72	12" HDPE OVER 8" SAN (PVC)	4.67	16.75		STM (HDPE)	12.08		SAN (PVC)	20.81		
C-73	6" WM OVER 4" SAN	2.72	16.80		WM (PVC)	14.08		SAN (PVC)	21.81		
C-74	12" HDPE STORM OVER GAS	1.00	18.04		STM (HDPE)	17.04		GAS	21.56		
C-75	GAS OVER SAN (PVC)	4.07	18.04		GAS	13.97		SAN (PVC)	21.29		
C-76	3" WM OVER GAS	1.00	16.05		WM (PVC)	15.05		GAS	20.77		
C-77	24" HDPE STORM OVER 2" WM	1.00	16.24		STM (HDPE)	15.24		WM (PE)	20.49		
C-78	12" HDPE STORM OVER 2" WM	1.00	17.10		STM (HDPE)	16.10		WM (PE)	21.78		
C-79	6" WM OVER 3" WM	1.00	16.80		WM (PVC)	15.80		WM (PVC)	20.79		
C-80	12" HDPE STORM OVER 6" WM	1.75	17.05		STM (HDPE)	15.30		WM (PVC)	21.71		
C-81	12" HDPE STORM OVER 3" WM	1.69	18.30		STM (HDPE)	16.61		WM (PVC)	21.25		
C-82	12" HDPE STORM OVER SAN (PVC)	3.58	17.26		STM (HDPE)	13.68		SAN (PVC)	21.61		
C-83	12" HDPE STORM OVER SAN (PVC)	3.79	17.36		STM (HDPE)	13.57		SAN (PVC)	21.80		
C-84	WM OVER SAN (PVC)	4.72	18.25		WM (PVC)	13.53		SAN (PVC)	21.75		
C-85	WM OVER SAN (PVC)	2.99	18.34		WM (PVC)	15.35		SAN (PVC)	21.84		
C-86	12" HDPE STORM OVER 3" WM	0.48	18.73		STM (HDPE)	18.25		WM (PVC)	21.88		
C-87	12 HDPE STORM OVER GAS	1.00	18.63		STM (HDPE)	17.63		GAS	21.88		
C-88	GAS OVER 8" SAN (PVC)	5.06	18.27		GAS	13.21		SAN (PVC)	21.52		
C-90	24" HDPE OVER 8" SAN (PVC)	2.63	16.47		STM (HDPE)	13.84		SAN (PVC)	21.40		
C-92	2" WM OVER SAN (PVC)	2.21	18.00		WM (PE)	15.79		SAN (PVC)	21.71		
C-93	12" HDPE STORM OVER 6" SAN (PVC)	1.02	18.46		STM (HDPE)	17.44		SAN (PVC)	21.88		
C-94	12" HDPE STORM OVER 4" SAN (PVC)	1.66	17.77		STM (HDPE)	16.11		SAN (PVC)	21.55		
C-95	30" HDPE STORM OVER 4" SAN (PVC)	0.46	16.14		STM (HDPE)	15.68		SAN (PVC)	20.88		CONST MIN 10' SLEEVE CENTERED AT CROSSING
C-96	24" HDPE STORM OVER 4" SAN (PVC)	2.03	16.27		STM (HDPE)	14.24		SAN (PVC)	20.80		
C-97	1-1/2" GAS OVER 8" SAN (PVC)	3.80	17.50		GAS	13.70		SAN (PVC)	21.80		
C-98	12" HDPE STORM OVER 1-1/2" GAS	1.00	18.34		STM (HDPE)	17.34		GAS	22.80		
C-99	1-1/2" GAS OVER 6" WM	1.52	17.50		GAS	15.98		WM (PVC)	23.80		
C-100	1-1/2" GAS OVER 2" WM	0.50	17.50		GAS	17.00		WM (PE)	24.80		
C-101	1-1/2" GAS OVER 6" WM	1.00	17.38		GAS	16.38		WM (PVC)	25.80		
C-102	1-1/2" GAS OVER 6" WM	0.50	17.85		GAS	17.35		WM (PVC)	26.80		

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STATE OF FLORIDA BOARD OF PROFESSIONAL ENGINEERS AUTHORIZATION NO. 4286

REVISIONS

MARK	DESCRIPTION	DATE
2	ADDENDUM 3 (REFER TO NARRATIVE)	12/14/23
8	ASI NO. 9	7/12/24

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St. Lucie PUBLIC SCHOOLS

St. Lucie Public Schools
9461 Brandywine Ln
Port St. Lucie, FL 34986

ISSUE DATE: 10/10/23
COMM NO.: 2022108
DRAWN BY: ZM CHECKED BY: KEC

UTILITY DETAILS

C603

GRAPHIC SCALE
120 0 60 120
(IN FEET)
1 inch = 120 ft.

LEGEND

PROP SILT FENCE

FLOATING TURBIDITY BARRIER

SOIL TRACKING PREVENTION DEVICE

C700 | EROSION & SEDIMENT CONTROL PLAN

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EROSION & SEDIMENT CONTROL PLAN

C700

PHASE-3 CONSTRUCTION DOCUMENTS

5/19/2022 4:10:59 PM

Section 1	Project Name and location information:	Fort Pierce Westwood Academy
Section 2	Describe the nature of the construction activity:	
Section 3	Describe the intended sequence of major soil disturbing activities:	Site clearing and grubbing, embankment placing and leveling, grading, paving and stabilization
Section 4	Total area of the site:	76.7 Acres
Section 5	Total area of the site to be disturbed:	Approx 76.7 Acres
Section 6	Existing data describing the soil or quality of any stormwater discharge from the site:	The existing soils are Lawnwood and Myakka Sands, Pineda Sand, Wabassa Sand, and Winder Sand.
Section 7	Estimate the drainage area size for each discharge point:	The site has two outfalls. One accounts for approximately X acres and outfalls into"WMT-3" to the west of the site. The second accounts for approximately X acres and outfalls to "WMT-4" to the south of the site.
Section 8	Latitude and longitude of each discharge point and identify the receiving water or MS4 for each discharge point:	
Section 9	Give a detailed description of all controls, Best Management Practices (BMPs) and measures that will be implemented at the construction site for each activity identified in the intended sequence of major soil disturbing activities section. Provide time frames in which the controls will be implemented. NOTE: All controls shall be consistent with performance standards for erosion and sediment control and stormwater treatment set forth in s. 62-40.432, F.A.C., the applicable Stormwater or Environmental Resource Permitting requirements of the Department or a Water Management District, and the guidelines contained in the State of Florida Erosion and Sediment Control Designer and Reviewer Manual, FDOT, FDEP, and any subsequent amendments.	
	• Prior to clearing, a silt fence (trenched 6 inches deep and backfilled on the uphill side), may be installed as required. Floating turbidity barrier will be installed to the limits of soil disturbance along the shoreline. • Disturbed portions of the site where construction activities have permanently ceased shall be stabilized with sod or other permanent stabilization methods no later than 7 days after the last construction activity. • All installation shall be commenced as depicted on the attached site map and installation “typicals”. • Sedimentation basins have been designed to treat stormwater runoff.	
Section 10	Describe all temporary and permanent stabilization practices. Stabilization practices include temporary seeding, mulching, permanent seeding, geotextiles, sod stabilization, vegetative buffer strips, protection of trees, vegetative preservations, etc.	
	• Grassing or mulch shall be used to stabilize all disturbed areas.	
Section 11	Describe all structural controls to be implemented to divert stormwater flow from exposed soils and structural practices to store flows, retain sediment on-site or in any other way limit stormwater runoff. These controls include silt fences, earth dikes, diversions, swales, sediment traps, check dams, subsurface drains, pipe slope drains, level spreaders, storm drain inlet protection, rock outlet protection, reinforced soil retaining systems, gabions, coagulating agents and temporary or permanent sediment basins.	
	• Silt fence is being proposed at this time as the erosion control will be addressed by installing turbidity barriers upstream of the outfall pump in the locations indicated on the erosion control plan. The contractor may elect to install silt fence in localized areas of concern during the course of the project. • All runoff will be directed to existing storm water detention facilities.	
Section 12	Describe all sediment basins to be implemented for areas that will disturb 10 or more acres at one time. The sediment basins (or an equivalent alternative) should be able to provide 3,600 cubic feet of storage for each acre drained. Temporary sediment basins (or an equivalent alternative) are recommended for drainage areas under 10 acres.	
	• Sedimentation basins are proposed as runoff will be directed to permanent surface water management system.	
Section 13	Describe all permanent stormwater management controls such as, but not limited to, detention or retention systems or vegetated swales that will be installed during the construction process.	
	• The Project stormwater system that will accept any runoff from the disturbed areas is completed and operational.	

Section 14	Waste disposal, this may include construction debris, chemicals, litter, and sanitary wastes:	All construction materials and debris will be placed in a dumpster and hauled off site to a landfill or other proper disposal site. No materials will be buried on site. The property owner, contractor, and authorized representatives shall provide pickup, removal, and disposal of litter within the project limits and shall be responsible for maintenance of the area from the edge of pavement to the property line within the City's right-of-way in accordance with City Code, Section 41.08 (g).
Section 15	Offsite vehicle tracking from construction entrances/exits:	Off site vehicle tracking of sediments and dust generation will be minimized via a rock construction entrance, street sweeping and the use of water to keep dust down.
Section 16	The proper application rates of all fertilizers, herbicides and pesticides used at the construction site:	Florida-friendly fertilizers and pesticides will be used at a minimum and in accordance with the manufacturer's suggested application rates.
Section 17	The storage, application, generation and migration of all toxic substances:	All paints and other chemicals will be stored in a locked covered shed.
Section 18	Other:	Port-o-lets will be placed away from storm sewer systems, storm inlet(s), surface waters and wetlands. No vehicle maintenance shall be conducted on-site. A washdown area shall be designated at all times and will not be located in any area that will allow for the discharge of polluted runoff.
Section 19	Provide a detailed description of the maintenance plan for all structural and non-structural controls to assure that they remain in good and effective operating condition.	
	Contractor shall provide routine maintenance of permanent and temporary sediment and erosion control features in accordance with the technical specifications or as follows, whichever is more stringent: • Silt fence shall be inspected at least weekly. Any required repairs shall be made immediately. Sediment deposits shall be removed when they reach approximately one-half the height of the barrier. • Maintenance shall be performed on the rock entrance when any void spaces are full of sediment. • Inlet(s)/outfalls shall be inspected immediately after each rain event and any required repairs to the filter inlets, silt fence, or filter fabric shall be performed immediately. • Bare areas of the site that were previously seeded shall be reseeded per manufactures' instructions. • Mulch and sod that has been washed out shall be replaced immediately. • Maintain all other areas of the site with proper controls as necessary.	
Section 20	Inspections: Describe the inspection and inspection documentation procedures, as required by the FDEP NPDES Generic Permit for Stormwater Discharge from Large and Small Construction Activities.	
	•Qualified personnel will inspect all points of discharges, all disturbed areas of construction that have not been stabilized, constructed areas and locations where vehicles enter and exit the site, and all BMPs at least once every 7 calendar days and within 24 hours of the end of a rainfall event that is 0.5 inches or greater. Where sites have been finally stabilized, said inspections shall be conducted at least once every month until the Notice of Termination is filed.	
Section 21	Identify and describe all sources of non-stormwater discharges as allowed by the FDEP NPDES Generic Permit for Stormwater Discharge from Large and Small Construction Activities.	
	•It is expected that no non-stormwater discharges will occur from the site during construction period:	
Section 22	All contractor(s) and subcontractor(s) identified in the SWPPP 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 thereunder.”	

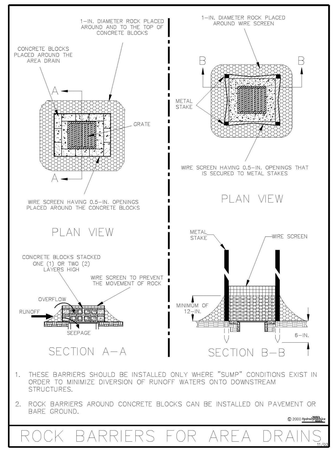

Figure V-46: Illustration of Rock Barriers around Area Drains

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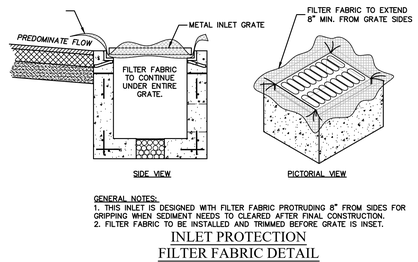

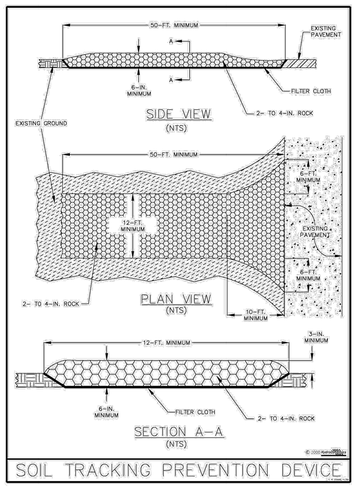

Figure V-52: Illustration of a Soil Tracking Prevention Device

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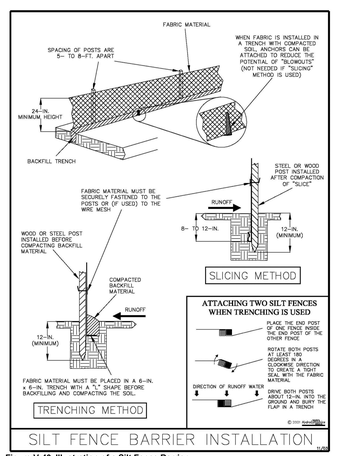

Figure V-40: Illustration of a Silt Fence Barrier

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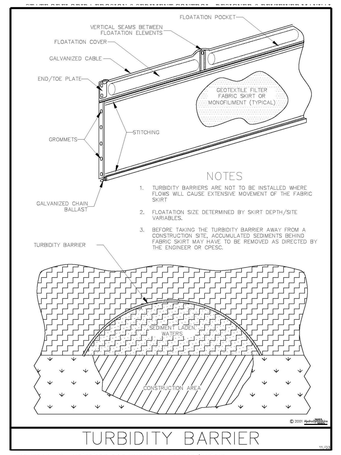

Figure V-44: Illustration of a Turbidity Barrier Curtain

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EROSION & SEDIMENT CONTROL DETAILS

C701

1. GENERAL

A. Mobilization: Mobilization shall meet the requirements of FDOT Section 101. This work shall include, but is not limited to, operations necessary for the movement of personnel, equipment, supplies, and incidentals to the project site, and for the establishment of temporary offices, buildings, safety equipment and first aid supplies, sanitary and other facilities, as required by State and local laws and regulations. the costs of bonds and any required insurance, and any other preconstruction expense necessary for the start of work, excluding the cost of construction materials, shall also be included in this section. This section also includes any and all work related to the final cleanup.

B. Construction Surveying: The Owner shall provide horizontal control consisting of four control points. The Owner shall also provide vertical benchmarks as shown on the plans. This control shall be provided one time only. The Contractor is responsible for all other construction surveying. The Contractor is responsible to protect these reference points and the construction staking throughout the job. The Contractor shall bear the cost of any necessary restaking.

C. Soil Testing: Soil Testing shall be performed by a certified testing laboratory. The contractor shall be responsible for payment of any failed tests and inspections.

D. All construction to be in accordance with the latest standards of the City of Port St. Lucie, SPLUSD, FDEP, adn FDOT..

E. Where muck or other organic material is found, it shall be replaced with good quality backfill material approved by Geotechnical Engineer.

2. EARTHWORK AND GRADING

Materials and construction methods for earthwork, excavation, embankment and grading shall meet the requirements of FDOT Section 120 and shall be performed to achieve final grades, elevations and typical sections as shown on the plans for the proposed work.

A. Clearing and Grubbing: Clearing and grubbing shall meet the requirements of FDOT Section 110 and shall be performed within the limits of the project work. This work shall include, but is not limited to, the removal of existing trees, brush stumps, roots and other objectionable material to a depth of 18 inches below the natural ground or design grade, whichever is lower. The areas to be cleared and grubbed generally consist of rights-of-way, utility easements, water management tracts, and portions of the lots as detailed on the plans. The Contractor shall confirm with the Owner the removal of any trees on the lots for possible preservation. All material shall be removed from the site of the project and shall be disposed of in accordance with local, regional, State and Federal laws, regulations and ordinances.

There shall be absolutely no clearing and grubbing or placement or removal of material from within the area designated as "Preserve Area".

B. Rough Grade: The Contractor shall grade the rights-of-way and lots to meet the requirements of FDOT Sections 110 and 120 and shall conform to the lines, grades, and typical sections as shown on the plans.

C. Fine Grade: The Contractor shall fine grade the roadway to meet the requirements of FDOT Sections 110 and 120 and shall conform to the lines, grades and typical sections as shown on the plans.

D. Sod: Sod shall meet the requirements of FDOT Section 570, 575, and 981 and shall be placed adjacent to the curbing for a minimum width of 24 inches.

E. Seed and Mulch: Seed and mulch shall meet the requirements of FDOT Sections 570, 575, and 981 and shall be placed in all disturbed areas not otherwise addressed in plans provided by the owner.

3. DRAINAGE IMPROVEMENTS

Materials, trench excavation, pipe laying and backfilling operations for drainage improvements shall meet the requirements of FDOT Sections 125 and 430. Pipe shall be laid in true alignment in a pipe trench with an adequate supporting value and "bedded" to the detail shown in the plans and FDOT Section 430. All backfill shall be compacted to a minimum density of 95 percent of the maximum density as determined by AASHTO T-180, unless otherwise shown on the plans.

The Contractor shall provide all materials and labor to complete the work for drainage improvements at the locations, sizes, and types shown on the plans for the following items:

A. Reinforced Concrete Pipe: Reinforced concrete pipe shall meet the requirements of Class III of ASTM C-76, Wall Thickness "B", Latest Revision, as modified by FDOT Section 941. Gaskets for pipe joints shall be round rubber gaskets and shall meet the requirements of FDOT Section 942.

B. Corrugated Metal Pipe: Corrugated metal pipe shall meet the requirements of FDOT section 945, and shall be constructed as shown on the plans.

C. Polyvinyl Chloride (PVC) Pipe: PVC pipe shall meet the requirements of FDOT Section 948 and A.S.T.M. F-794, latest revision, and shall be constructed as shown on the plans.

D. Concrete Collar: Concrete collars shall meet the requirements of F.D.O.T. Standard Index No. 280 and shall be constructed to the detail shown on the plans.

E. Inlet Top and Grate:
Concrete catch basins shall meet the requirements of ASTM C-478 and 64T FDOT Section 425. Catch basins shall be Class I concrete and shall be constructed to the detail as shown on the plans. Valley gutter grates shall meet the requirements of ASTM A-123.
All inlets on-site are to be fitted with steel grates with traversable slots.

F. Storm Manhole: Storm manholes shall meet the requirements of ASTM C-478 and 64T FDOT Section 425. Storm manholes shall be Class I concrete and shall be constructed to the detail as shown on the plans.

4. PAVING IMPROVEMENTS

All paved areas shall meet the requirements of AASHTO Specifications and FDOT, and shall be constructed to the typical sections as shown on the plans.

The Contractor shall coordinate the services of an independent testing laboratory to conduct all required testing and retesting to comply with these Specifications. The Owner shall bear the cost of initial testing and the Contractor shall correct any deficient work at his own expense.

A. Asphaltic Concrete: Asphaltic concrete materials and construction methods shall meet the requirements of FDOT Sections 300, 320, 330 and 334 and shall be as shown in the typical sections. Prime Coats shall meet the requirements of FDOT Sections 300-1 through 300-7 and shall have an application rate of 0.10 gallons per square yard, unless a variation rate is approved by the Engineer.

B. Base: The base course shall be as shown on the typical sections on the plans. The base shall be compacted to 98 percent of the maximum density as determined by AASHTO T-180.

C. Subgrade: The subgrade shall be as shown in the typical sections of the plans, and shall extend six inches beyond the edge of the base course within the limits shown on the plans. Subgrade shall be compacted to 98 percent of the maximum density as determined by AASHTO T-180. If normal compaction methods do not meet the required densities, the subgrade shall be stabilized as directed by the Engineer.

D. 1' Header Curb: Concrete 1' header curb shall meet the requirements of FDOT Section 520 and shall be constructed to the typical section as shown on the plans.

E. Type "D" & "F" Curb: Concrete type "D" & "F" curb shall meet the requirements of FDOT Section 520 and shall be constructed to the typical section as shown on the plans.

F. Concrete Sidewalk: Concrete sidewalk shall meet the requirements of FDOT Section 522 and shall be constructed to the typical section shown on the plans.

G. Traffic Striping: Traffic stripes shall meet the requirements of FDOT Section 711, and shall be as shown in the plans.

H. Stop Sign and Bar: Stop signs and bars shall meet the requirements of FDOT Section 700 and the Manual of Uniform Traffic Control Devices and shall be constructed in the locations as shown on the plans.

5. POTABLE WATER DISTRIBUTION SYSTEM

Materials, construction methods, required tests, testing methods and construction tolerances for the potable water distribution system shall meet the requirements of the current AWWA Specifications, FDEP, FDOT, and Fort Pierce Utility Authority specifications.

Materials, trench excavation, pipe-laying and backfilling operations shall meet the requirements of FDOT Sections 125 and 430. Pipe shall be laid in true alignment in a dry pipe trench with an adequate supporting value and "bedded" to the detail as shown on the plans and FDOT Section 430. All backfill shall be compacted to a minimum density of 95 percent of the maximum density as determined by AASHTO T-180, unless otherwise shown on the plans.

A. PVC Water Main: PVC pressure pipe shall meet the requirements of AWWA C-900 and/or an approved equal with outside diameter equal to that of standard ductile iron pipe and minimum wall thickness of DR-25, Class 100 or DR-18, Class 150. Minimum cover shall be 30 inches, unless otherwise noted. Water mains shall be blue in color or marked as approved by the Owner.

B. Gate Valve with Box: Gate valves 12 inches or smaller shall meet the requirements of AWWA C-500 and shall be ductile iron, resilient seat type with mechanical joints. Valves shall be designed with a minimum working pressure of 200 psi. Each valve shall have the valve type, size, rating, and manufacturer cast into the body.

C. Ductile Iron Fittings: Water main fittings shall be ductile iron and shall meet the requirements of AWWA ANSI A21.10 (AWWA C-100). Fittings shall be designed with a minimum working pressure of 250 psi. Fittings shall be restrained with restrained joints and/or thrust blocks of poured in place concrete as per the detail.

D. Plug with 2" Blowoff: Plugs with 2" blowoffs shall meet the requirements of St. Lucie County Utilities, and shall be constructed to the typical section as shown on the plans.

E. Service Connection: Water services shall meet the requirements of City of Port St. Lucie Utilities, and shall be 1-1/2" polyethylene tubing SDR 9, copper tube size. Services shall terminate at the road right-of-way line (minimum of 1").

F. Sample Point: Sample points shall meet the requirements of City of Port St. Lucie Utilities, and shall be constructed to the typical section as shown on the plans.

G. Fire Hydrant Assembly: Fire hydrants shall meet the requirements of AWWA C502 and C600, St. Lucie County Utilities and the St. Lucie County Fire District, and shall be constructed to the typical section as shown on the plans. Minimum working pressure shall be 150 psi.

H. Testing: All pressure and leakage testing shall meet the requirements of AWWA Specifications, the Fort Pierce Utility Authoirty and FDEP. The complete water system shall be tested at a pressure of 150 psi for a minimum of 2 hours. No visible movement of the system shall occur and leakage shall not exceed:

$$\frac{L = ND\sqrt{P}}{7{,}400}$$

Where:

L = allowable leakage in gallons per hour
N = number of joints in length of pipe being tested
D = nominal diameter of the pipe in inches
P = average test pressure during the leakage test, in pounds per square inch

Following the leakage test, the Contractor shall flush the pipeline of all foreign matter and disinfect all potable water mains and services. The Contractor shall notify St. Lucie County Utilities at least 48 hours in advance of any testing procedures.

I. Disinfection: Water main shall be disinfected and approved in accordance with applicable F.D.E.P. criteria and A.W.W.A. C601, latest revision.

6. WASTEWATER COLLECTION AND TRANSMISSION SYSTEM

Materials, construction methods, required tests, testing methods and construction tolerances for the wastewater collection and transmission system shall meet the requirements of the current AWWA Specifications, FDEP, and Fort Pierce Utility Authority.

Materials, trench excavation, pipe-laying and backfilling operations shall meet the requirements of FDOT Sections 125 and 430. Pipe shall be laid in true alignment in a dry pipe trench with an adequate supporting value. If normal dewatering efforts fail as specified in FDOT Section 430, a minimum six inch compacted rock bed shall be used. All backfill shall be compacted to a minimum density of 95 percent of the maximum density as determined by AASHTO T-180, unless otherwise shown on the plans. Pipe laying shall proceed upgrade with spigot ends pointing in the direction of the flow.

A. 8" PVC Sanitary Sewer Main: 8" PVC sewer main shall meet the requirements of ASTM D-3034 for SDR 26. Minimum cover shall be 36 inches, unless otherwise noted. If the minimum cover cannot be maintained, sewer main shall be ductile iron pipe and shall meet the requirements of ANSI/AWWA C150/A21.50. Sewer mains shall be green in color or marked as approved by the Owner.

B. DIP Sanitary Sewer Main: DIP sewer main shall meet the requirements of ANSI/AWWA C150/A12.50. Minimum cover shall be 36 inches, unless otherwise noted.

C. Sanitary Manhole: Sanitary manholes shall meet the requirements of Fort Pierce Utility Authority and shall be constructed in the locations, elevations, and dimensions as shown on the plans. Manholes shall be set plumb to line and grade and shall rest on a carefully graded, uniform bearing base.

All concrete and or mortar mixed on-site (field mixed) for use on any component of the wastewater collection system shall be made with Type II Portland cement, masonry sand, clean properly sized gravel (if required) and clean, fresh water. In no case shall local on-site sand/dirt, rock or stones be used.

Prior to placing any mortar/concrete/grout mix, the opening shall first be thoroughly prepared in accordance with the manufacturer's instruction and then a liquid bonding agent shall be applied to the surface(s) per the manufacturers instructions. The bonding agent of choice shall be Acryl 60 as manufactured by Thoro System Products or an Engineer-approved equal.

The approved group mixture for performing all concrete repairs, filling all voids between pipe and concrete wall and plugging leaks in concrete structures shall be Master Buildings Masterflow 713 Grout or Engineer-approved equal, properly plugged as shown on the plans.

D. Sanitary Drop Manhole: Drop manholes shall meet the requirements of the Fort Pierce Utility Authority and shall be constructed in the locations, elevations, and dimensions as shown on the plans. Manholes shall be set plumb to line and grade and shall rest on a carefully graded, uniform bearing base.

E. Service Connection: Sewer services shall meet the requirements of the Fort Pierce Utility Authority and shall be 6 inch PVC Schedule 40 with a minimum slope of 1/8 per foot of run. Sewer services shall terminate and be plugged water tight at the back of the right-of-way or utility easement line at a depth of three feet. The sewer service shall be marked with a treated stake and electronic marker. The Contractor is not responsible for installation of meters.

F. Testing: The Engineer shall visually inspect all gravity sewer mains to verify conformance to the requirements of the Fort Pierce Utility Authority with the aid of mirrors and lights. This inspection shall be performed after the completion of all manholes, connection of all services and all compaction efforts, but prior to paving. A full pipe diameter shall be visible between all manholes. The Contractor shall repair or replace any portion that does not meet the specifications at his own expense.

STANDARD SEPARATION STATEMENT FOR WATER/SEWER CONFLICTS

1. Sanitary sewers, force mains, and storm sewers should cross under water mains whenever possible. Sanitary sewers, force mains and storm sewers crossing water mains shall be laid to provide a minimum vertical distance of 18 inches between the invert of the upper pipe and the crown of the lower pipe whenever possible.

   Where sanitary sewers, force mains and storm sewers must cross a water main with less than 18 inches vertical distance, both the sewer and the water main shall be constructed of ductile iron pipe (DIP) at the crossing. (DIP is not required for storm sewers.) Sufficient lengths of DIP must be used to provide a minimum separation of 10 feet 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 6 inches must be maintained at all crossings.

   All crossings shall be arranged so that the sewer pipe joints and the water main pipe joints are equidistant from the point of crossing (pipes centered on the crossing).

   Where a new pipe conflicts with an existing pipe with less than 18 inches vertical clearance, the new pipe shall be constructed of DIP (except storm sewers) and the new pipe shall be arranged to meeting the crossing requirements above.

2. A minimum 10 foot horizontal separation shall be maintained between any type of sewer and water main in parallel installations whenever possible.

   In cases where it is not possible to maintain a 10 foot horizontal separation, the water main must be laid in a separate trench or on an undisturbed earth shelf located on one side of the sewer or force main at such an elevation that the bottom of the water main is at least 18 inches above the top of the sewer.

   Where it is not possible to maintain a vertical distance of 18 inches in parallel installations, the water main shall be constructed of DIP and the sewer or force main shall be constructed of DIP (except storm sewers) with a minimum vertical distance of 6 inches. The water main should always be above the sewer. Joints on the water main shall be located as far apart as possible from joints on the sewer or force main (staggered joints).

3. All DIP shall be Class 50 or higher. Adequate protective measures against corrosion should be used as determined by the design Engineer.

4. Maximum obtainable separation of reclaimed water lines and domestic water lines shall be practiced. A minimum horizontal separation of five feet (center to center) or three feet (outside to outside), shall be maintained between reclaimed water lines and either potable water mains or sewage collection lines. A minimum vertical clearance 18 inches must be maintained between reclaimed water lines and potable water mains or sewage collection lines. At crossings, provisions of FAC Rule 17-604 and 10 States Standards apply.

THE WORK

Existing Utilities and Structures:

Existing utilities, structures and facilities shown on the Drawings were located as accurately as possible from the records examined. No guarantee is made that all existing facilities are shown or that those shown are entirely accurate. The Contractor shall assure himself of the actual location of the utilities, structures, or facilities prior to performance of any work in the vicinity. The utility companies or utility agencies will co-operate with the Contractor's operations. Prior to start of the work, the Contractor shall request each utility agency to advise him of the location of their facilities in the vicinity. The Owner will assume no liability for damages sustained or cost incurred because of the Contractor's operation in the vicinity of existing utilities or structures, or to the temporary bracing and shoring of same. In the event that it is necessary to shore, brove, or swing a utility, the utility company or department affected should be contacted and their permission secured as to the method used for any such work.

Restoration of Damaged Structures or Utilities:

It shall be the responsibility of the Contractor to repair, rebuild or restore to its former condition, any and all portions of existing utilities, structures, equipment, appurtenances or facilities, other than those to be paid for under this Contract, which may be disturbed or damaged due to this construction operation, at no cost to the Owner.

Final Cleanup:

Upon completion of the work, but before final payment will be made, the Contractor shall clear and remove from the Project area, all falsework, equipment, surplus and discarded materials, rubbish and temporary structures which result from the work under this Agreement, and shall restore in an acceptable manner, all property which has been damaged during the prosecution of the work.

Record Information:

Upon completion of the work, but prior to submittal of the request for final payment, the Contractor shall obtain and submit record information to the Owner. This information shall include the following:

1. Water and Wastewater Systems:

   As-built plans for water/sewer mains shall be provided by the Contractor/Engineer of Record and shall be comprised of a reproducible mylar copy and three (3) blueline copies of a certified survey. The blueline copies shall bear the original signature and embossed seal of the surveyor who performed the as-built survey. The as-builts shall be submitted after the completion of construction or as otherwise indicated herein, prior to submittal to the Florida Department of Environmental Protection. The as-built survey shall be prepared in plan and profile format by a professional land surveyor registered in the State of Florida, and shall comply with applicable provisions of the Florida Administrative Code and Chapter 472 of the Florida Statutes. The as-built drawing shall be at the same scale and reference the same baseline as the drawings prepared by the Engineer of Record. The horizontal and vertical location of the mains and appurtenances shall be accurately depicted to scale and shall be identified relative to the baseline and relative to readily identifiable permanent reference points existing after the completion of the construction. Locations shall be shown for all fittings, valves, hydrants, manholes, sample points, air releases, etc., both horizontal and vertical, and the location of the main at each baseline station as shown on the plans (100 feet maximum) both horizontal and vertical. Underground facilities (i.e. drainage, gas, electric, telephone, etc.) crossing the mains shall be accurately shown both horizontally and vertically and shall identify size, type, facility, material, and clearance. All information shall be based upon measurements and observations made in the field by the surveyor certifying the survey, or by personnel under his employment, direction and supervision. The cost for preparing and maintaining the as-built plans shall be incidental to the construction cost.

2. Drainage System:

   a. High points and low points of swales;

   b. Locations and grate and invert elevations of all structures;

   c. Location, size, type, length and invert of all culverts.

3. Paving and Grading:

Location and elevation of high and low points in roadway and any other changes in grade.

The record information shall be certified by a Florida Professional Land Surveyor. Locations shall be made by reference to centerline stationing and offset or by other means acceptable to the Owner. Elevations shall be according to the North American Vertical Datum (NAVD).

Guarantee:

All materials and the installation thereof which are furnished and installed by the Contractor, under the terms of the Agreement, shall be guaranteed by the Contractor against defective workmanship, mechanical and physical defects, leakage, breakage, and other damages and failure under normal operation for a period of one (1) year from the date of final payment, said date to constitute the commencement of the one (1) year warranty period. All materials and installations proving to be defective within the specified period of the guaranty shall be replaced, without cost to the Owner, by the manufacturer or the Contractor. The period of guarantee of each such replacement shall be from and after the date of installation thereof.

UTILITY CONTACTS

Company	Telephone Numbers
Fort Pierce Utility Authority	(772) 466-1600
Florida Power & Light	(772) 595-1227

GENERAL NOTES

1. Grassing shall be furnished and installed in conformance with the approved landscape plan. All disturbed areas not shown to be planted, mulched, etc. shall be sodded.
2. Sod shall be placed such that the top of the grass is at the same elevation as the top of adjacent finish grade.
3. The location of existing utilities shown is approximate only and must be field verified by the Contractor prior to beginning Work.
4. These plans shall not be used for construction unless they are marked "Approved for Construction" in the title block.
5. Contractor to obtain and review all permits prior to starting construction
6. Drawing scale may change due to reproduction
7. Maintenance of traffic must be in conformance with FDOT Specifications.
8. All nuisance exotic vegetation on-site must be removed in conjunction with site development.
9. Drawing scale may change due to reproduction.

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REVISIONS

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FORT PIERCE WESTWOOD ACADEMY

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Port St. Lucie, FL 34986

ISSUE DATE: 10/10/23
COMM NO.: 2022108
DRAWN BY: ZM CHECKED BY: KEC

GENERAL NOTES

C800

PHASE-3 CONSTRUCTION DOCUMENTS