

# CONSTRUCTION PLANS FOR

DATE	ISSUE	BY
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# CITY OF FRUITLAND PARK WEST MIRROR LAKE ROAD BAFFLE BOX

SECTION 9, TOWNSHIP 19 S , RANGE 24 E

**CHRIS CHESHIRE**  
MAYOR  
SEAT 5, DISTRICT 3

**JOHN MOBILIAN**  
CITY COMMISSIONER-  
SEAT 1, DISTRICT 2

**CHRIS BELL**  
CITY COMMISSIONER  
SEAT 3, DISTRICT 5

**GARY LA VENIA**  
CITY MANAGER

**ROBB DICUS**  
PUBLIC WORKS  
DIRECTOR

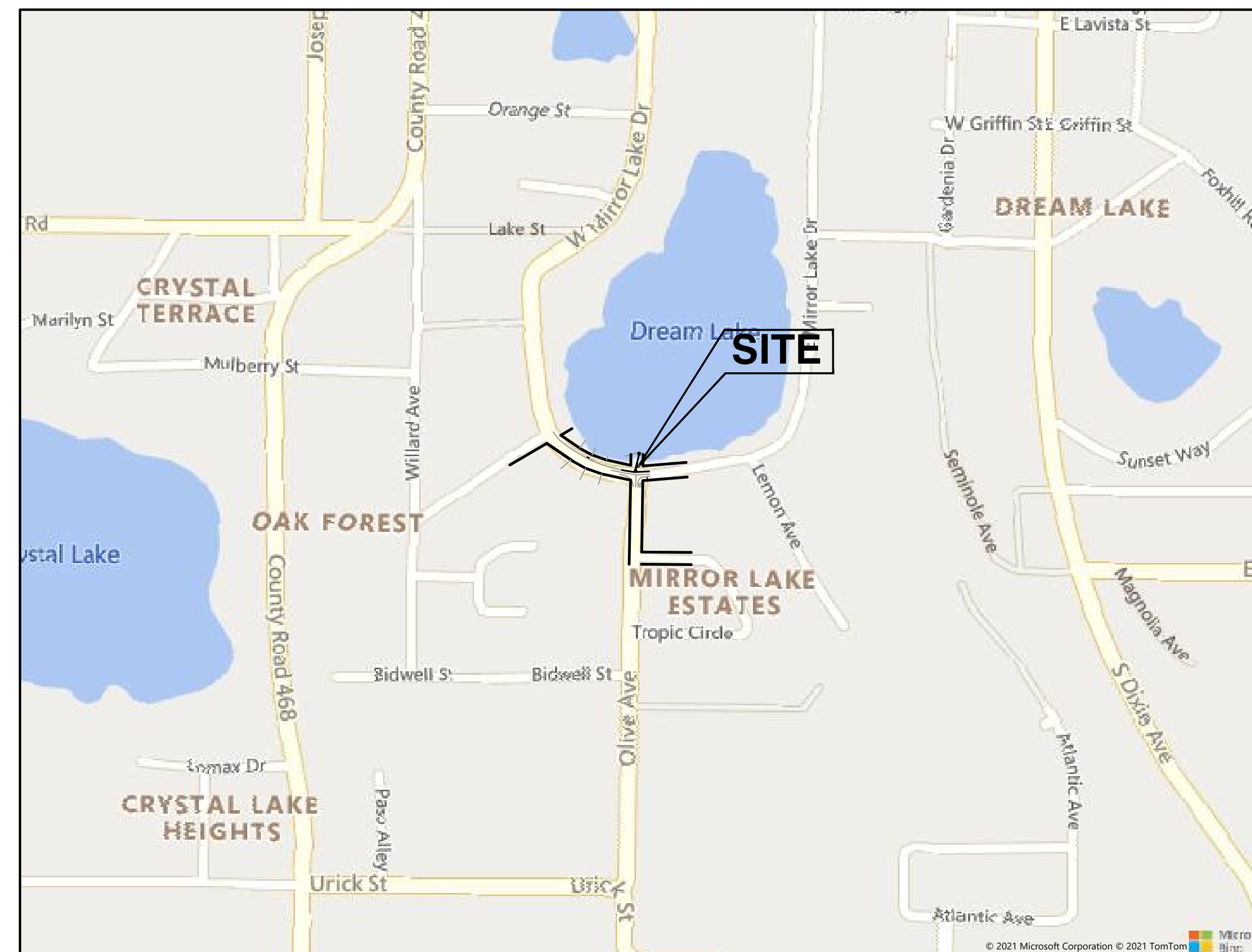
**OWNER/DEVELOPER:**  
CITY OF FRUITLAND PARK, FLORIDA  
506 W. BERKMAN ST.  
FRUITLAND PARK, FL. 34731  
GARY LA VENIA, CITY MANAGER  
(352) 360-6727

**ENGINEER/SURVEYOR:**  
HALFF, INC.  
902 SINCLAIR AVENUE  
TAVARES, FL. 32778  
BRETT J TOBIAS, TEAM LEADER  
(352) 343-8481

**JOHN L. GUNTER**  
VICE MAYOR  
SEAT 2, DISTRICT 4

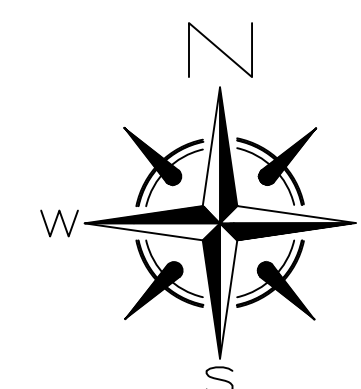
**PATRICK DEGRAVE**  
CITY COMMISSIONER  
SEAT 4, DISTRICT 1

**ANITA GERACI-CARVER**  
CITY ATTORNEY  
SERVICES DIRECTOR



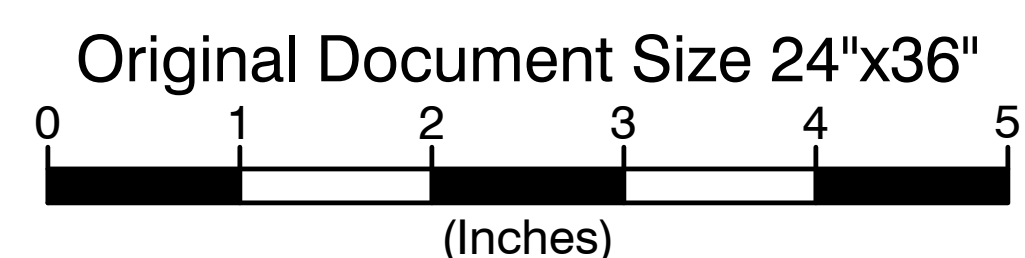
VICINITY MAP

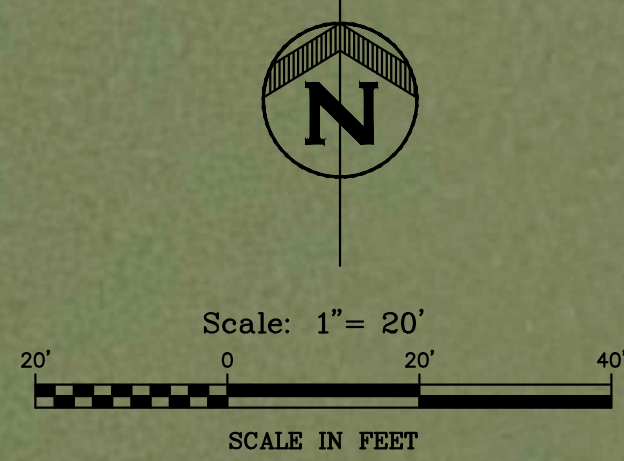
SCALE  
1" = 400'



## INDEX OF SHEETS

- 1 COVER SHEET
- 2 AERIAL VIEW
- 3 DEMOLITION / EROSION CONTROL PLAN
- 4 SITE / GRADING PLAN
- 5 BAFFLE BOX DETAIL





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Fruitland Park, Florida  
**W. MIRROR LAKE ROAD**  
 STORMWATER IMPROVEMENTS  
**AERIAL**  
**VIEW**

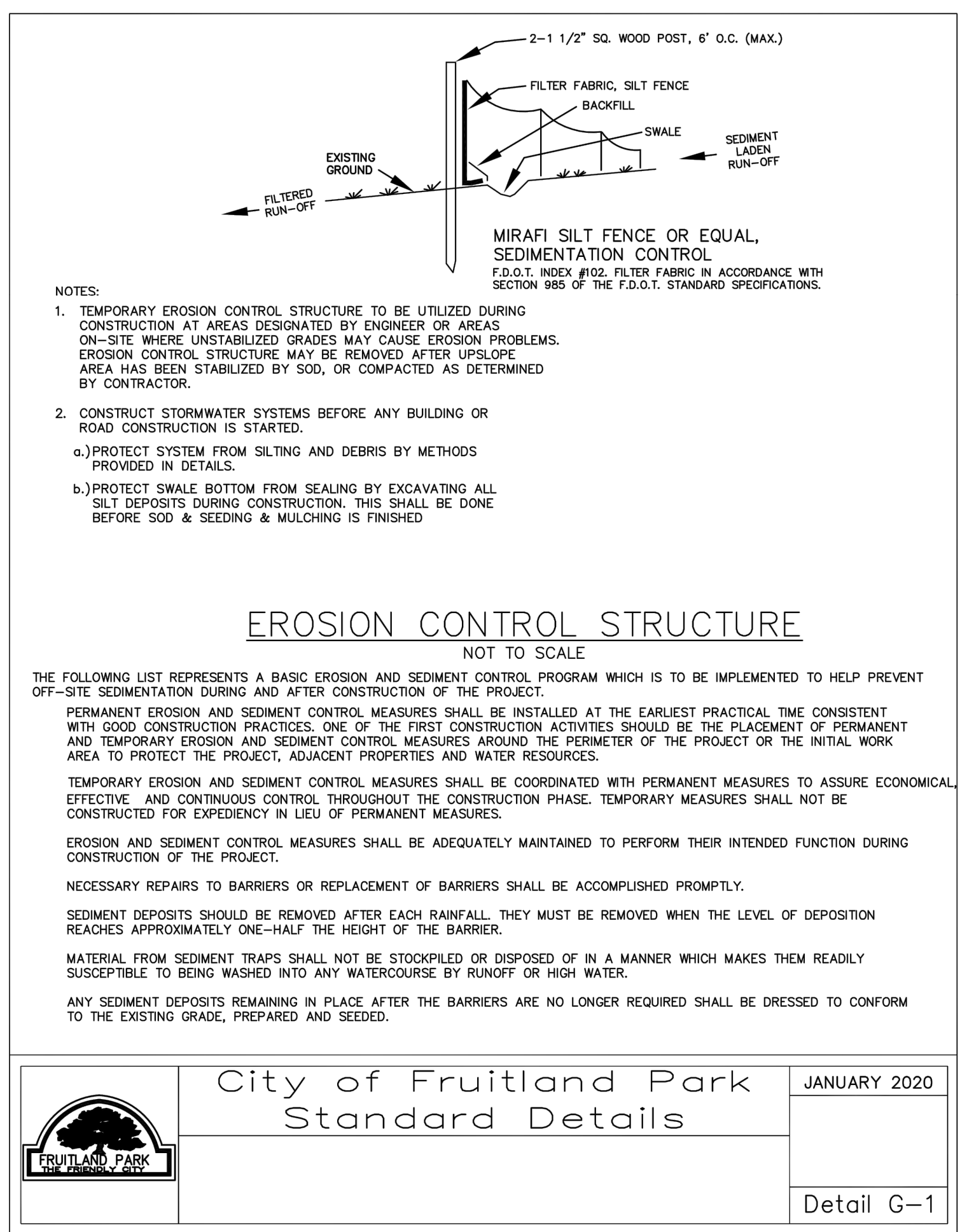
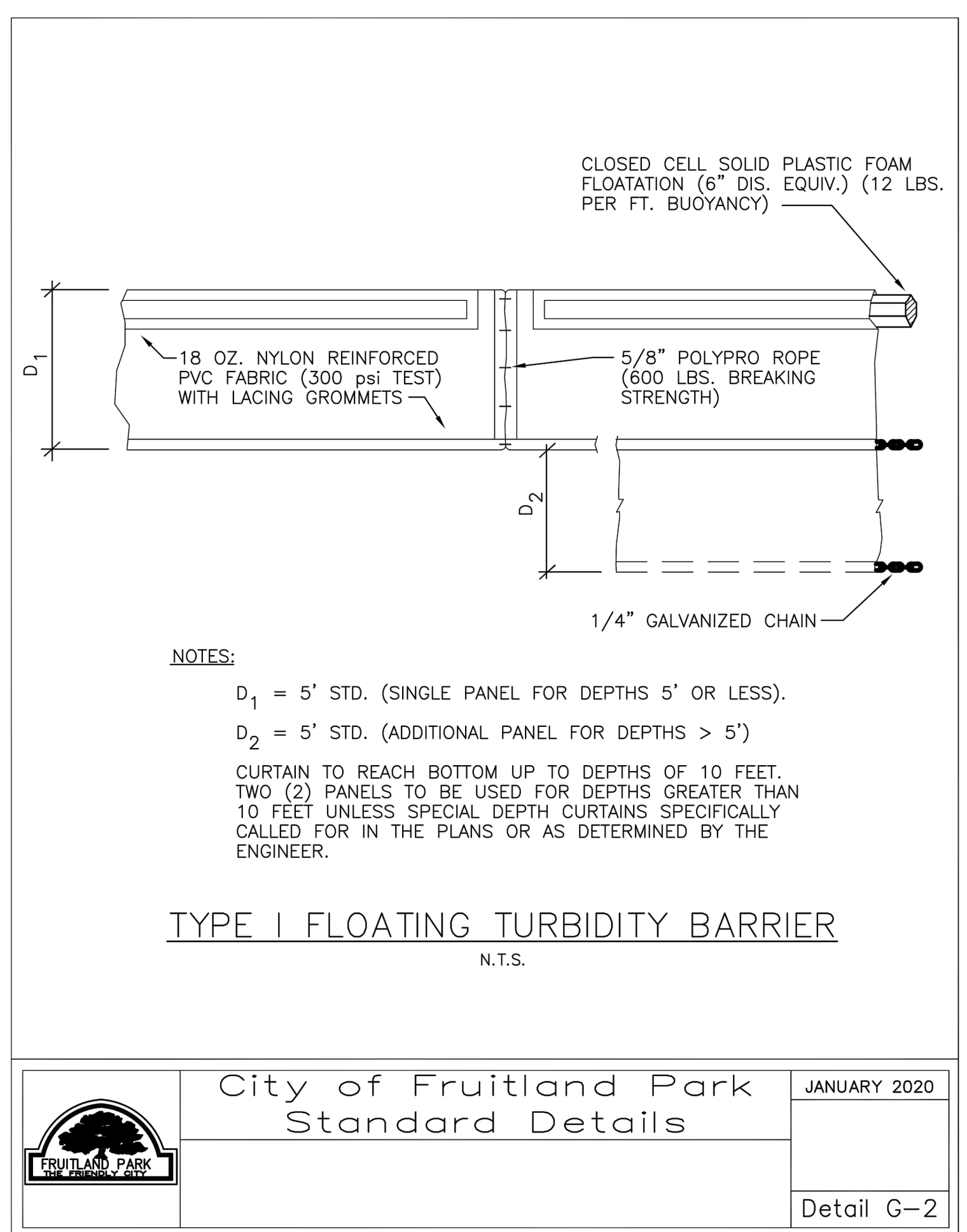
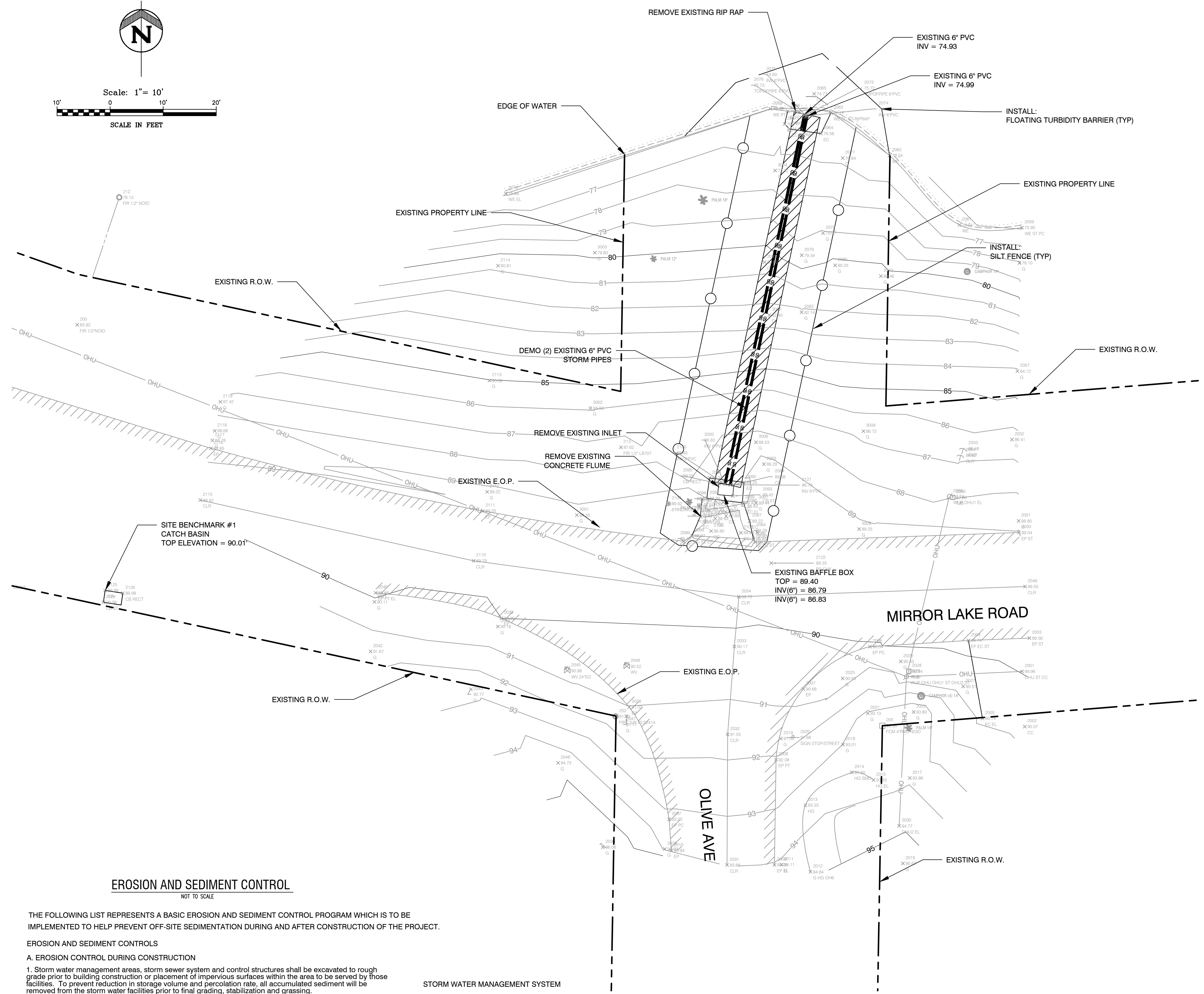
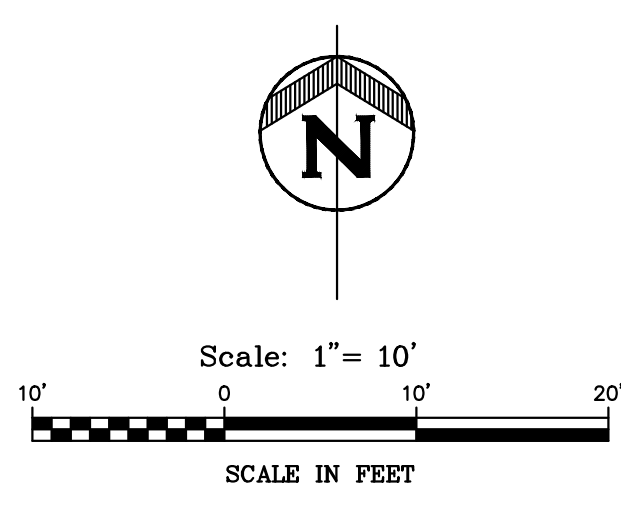


**HALFF**  
 802 North Sinclair Ave  
 Tallahassee, Florida 32378  
 Office: 352.343.8881  
 Fax: 352.343.8895  
 Certificate of Authorization Number: 33380

DATE:	JUNE 2021
DESIGNED BY:	BJT
DRAWN BY:	RON
CHECKED BY:	BJT
JOB NO.:	43866.075
FILE NAME:	

**Sheet 2**

**BRETT J. TOBIAS, PE**  
 Registered Eng 69017



**EROSION AND SEDIMENT CONTROL**  
NOT TO SCALE

THE FOLLOWING LIST REPRESENTS A BASIC EROSION AND SEDIMENT CONTROL PROGRAM WHICH IS TO BE IMPLEMENTED TO HELP PREVENT OFF-SITE SEDIMENTATION DURING AND AFTER CONSTRUCTION OF THE PROJECT.

**EROSION AND SEDIMENT CONTROLS**

**A. EROSION CONTROL DURING CONSTRUCTION**

- Storm water management areas, storm sewer system and control structures shall be excavated to rough grade prior to building construction or placement of impervious surfaces within the area to be served by those facilities. To prevent reduction in storage volume and percolation rate, all accumulated sediment will be removed from the storm water facilities prior to final grading, stabilization and grassing.
- Erosion control structures, such as silt fence and berms, shall be installed around inlets and in swales to trap eroded material, prevent sedimentation in down stream areas and keep runoff velocities low.
- The contractor shall minimize the extent of area exposed at any one time and the duration of exposure.
- Stabilization measures shall be initiated for erosion and sediment control on disturbed areas no more than fourteen (14) days after the construction activity in any portion of the site has ceased.
- The contractor will install a permanent protective vegetative cover for erosion and sediment control on all land surfaces disturbed by construction. This protective cover must be installed within fourteen (14) days after final grading of the effected land surfaces. A permanent vegetative cover must be established within sixty (60) days after planting or installation.
- To provide dust control, a contractor shall provide a water truck or irrigation system as needed, to maintain soil moisture.

**B. PERMANENT STABILIZATION**

Where construction is complete, permanent vegetation shall be installed as specified on the construction plans and in accordance with the construction specification documents. Permanent vegetation will include sod or seed and mulch.

**STORM WATER MANAGEMENT SYSTEM**

The stormwater retention ponds shall be excavated to rough grade prior to building construction or placement of impervious surfaces within the drainage area served by this facility. All accumulated sediment must be removed from the retention pond prior to final grading, stabilizing and grassing.

**OTHER CONTROLS**

**A. OFFSITE VEHICLE TRACKING**

Paved streets adjacent to the construction site entrance will be swept as needed to prevent excess mud, dirt or rock from leaving the construction site. All dump trucks hauling material to and from the construction site will be covered with a tarp. Temporary stabilized or rock construction entrance may be required to remove excess dirt and mud from tires before construction vehicles enter adjacent paved streets.

**TIMING OF SEDIMENT AND EROSION CONTROL MEASURES**

A silt fence shall be installed prior to any construction activity. A retention ponds and the storm water conveyance system shall be constructed prior to the placement of any impervious area. Areas where construction activity temporarily ceases for more than 14-days shall be stabilized with temporary seed and mulch. Once construction activity ceases permanently in any area, that area will be stabilized with permanent seed and mulch or sod. After the entire site is stabilized, the accumulated sediment within any catch basin, storm pipes or retention ponds will be removed.

**NOTE:**  
THE CONTRACTOR SHALL NOTIFY UTILITY OWNERS THROUGH SUNSHINE STATE ONE CALL OF FLORIDA, INC. @ 1-800-432-4770 TO CONFIRM UTILITY LOCATIONS, AS REQUIRED BY CHAPTER 556 OF THE FLORIDA STATUTES, TWO BUSINESS DAYS IN ADVANCE OF BEGINNING CONSTRUCTION ON THE JOB SITE

REVISION	1	2	3	4	5	6	7	8
DATE	***							

Fruitland Park, Florida  
**W. MIRROR LAKE ROAD  
STORMWATER IMPROVEMENTS**

**DEMOLITION &  
EROSION CONTROL**



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Office: 352.343.8881  
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902 North Simeclair Ave.  
Tallahassee, Florida 32378  
Certificate of Authorization Number: 35380

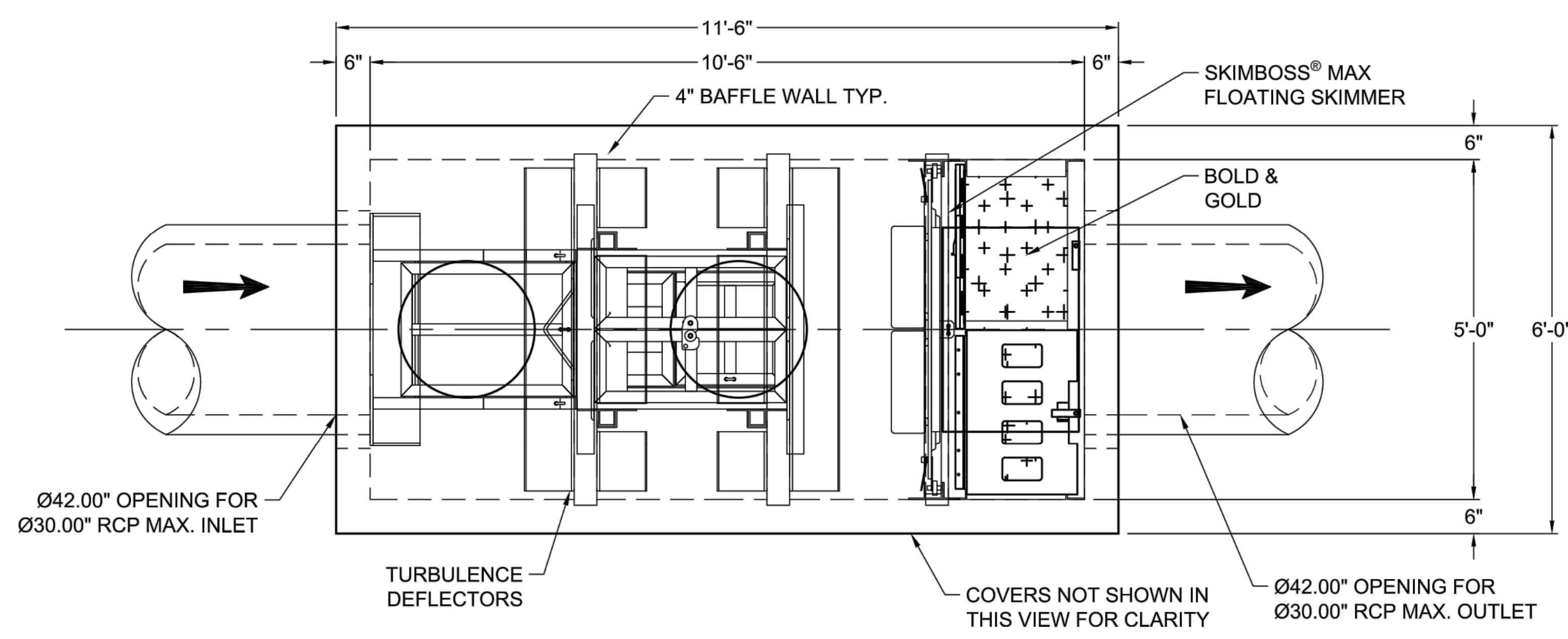
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<b>Sheet 3</b>	

**BRETT J. TOBIAS, PE**  
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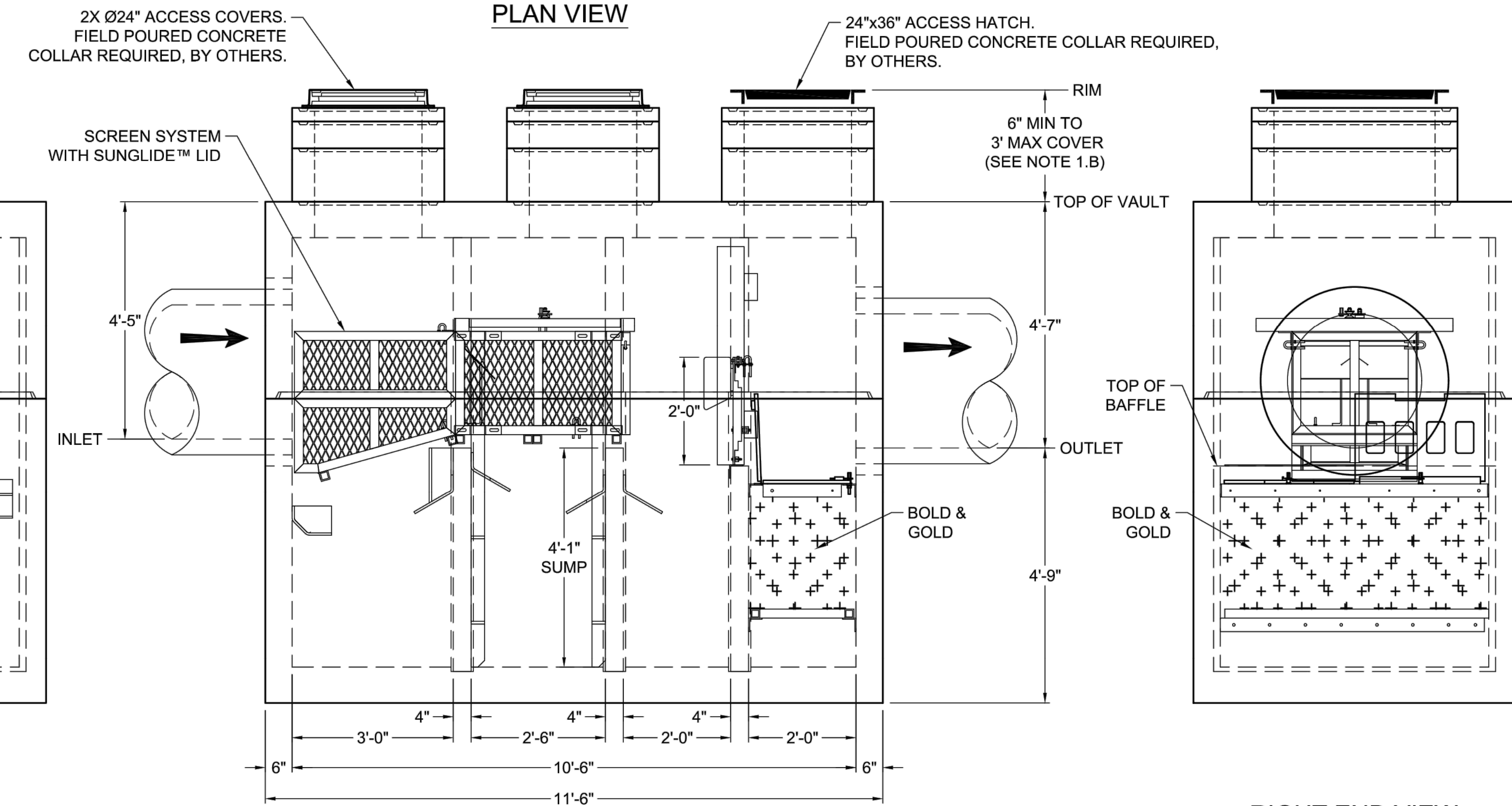


SITE SPECIFIC DATA			
Structure ID	ID		
Water Quality Flow Rate (cfs)	STANDARD		
Peak Flow Rate (cfs)	23.25		
Rim Elevation	87.50'		
Top of Vault Elevation	85.91"		
Pipe Data	Pipe Size	Pipe Type	Invert Elevation
Inlet	30"	RCP	81.33' **
Outlet	30"	RCP	81.33' **
Notes:			
PERFORMANCE SPECIFICATIONS			
Screen System Storage Volume	25.66 cf		
Total Sump Volume	190.55 cf		
Treatment Flow Capacity	1 gal/min/sf		
*Contact Oldcastle for alternative treatment flow capacities.			

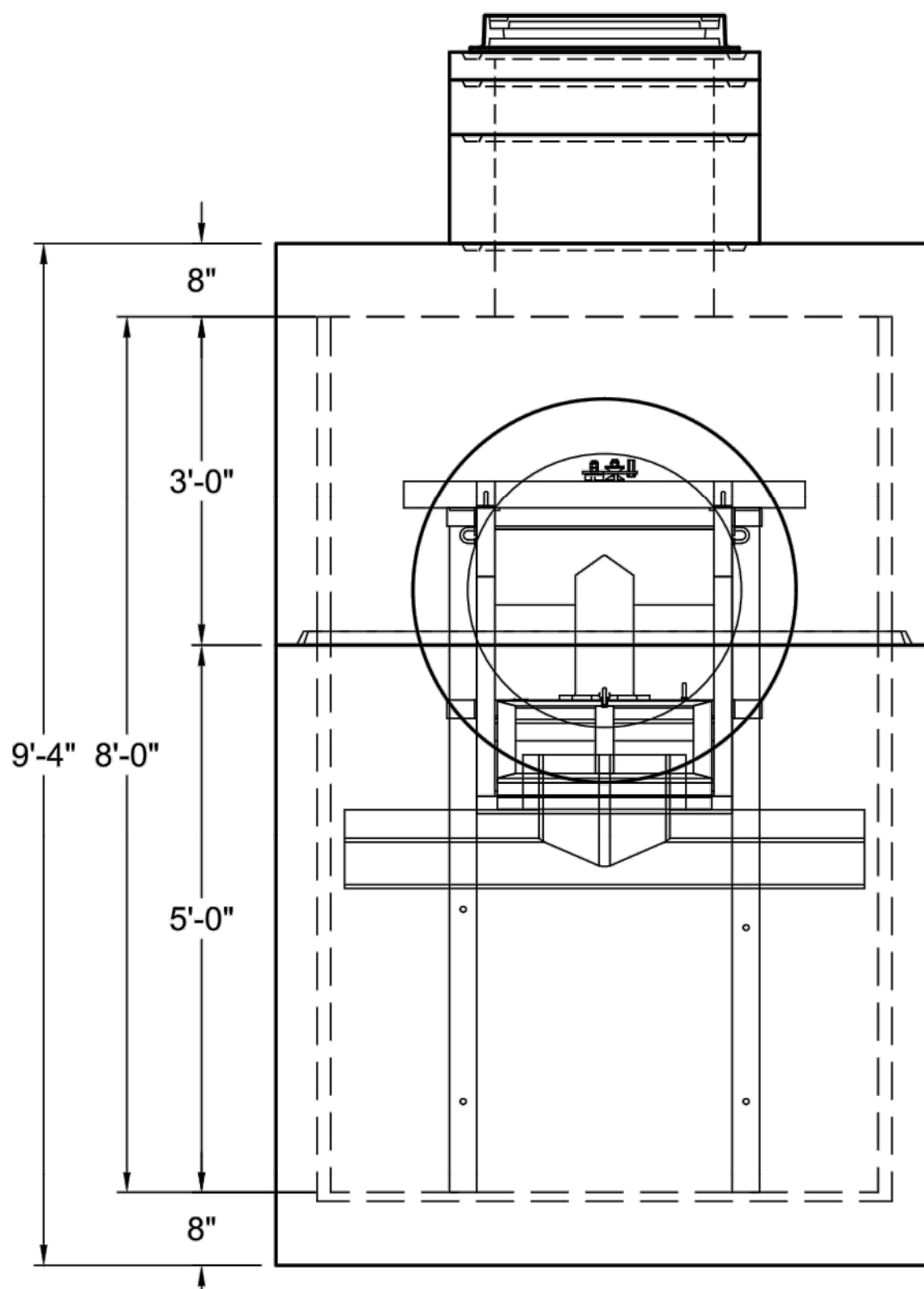
\*\* = INVERTS TO BE VERIFIED WITH DANIEL HAPPEL W/ FERGUSON WATERWORKS - 407-859-7473



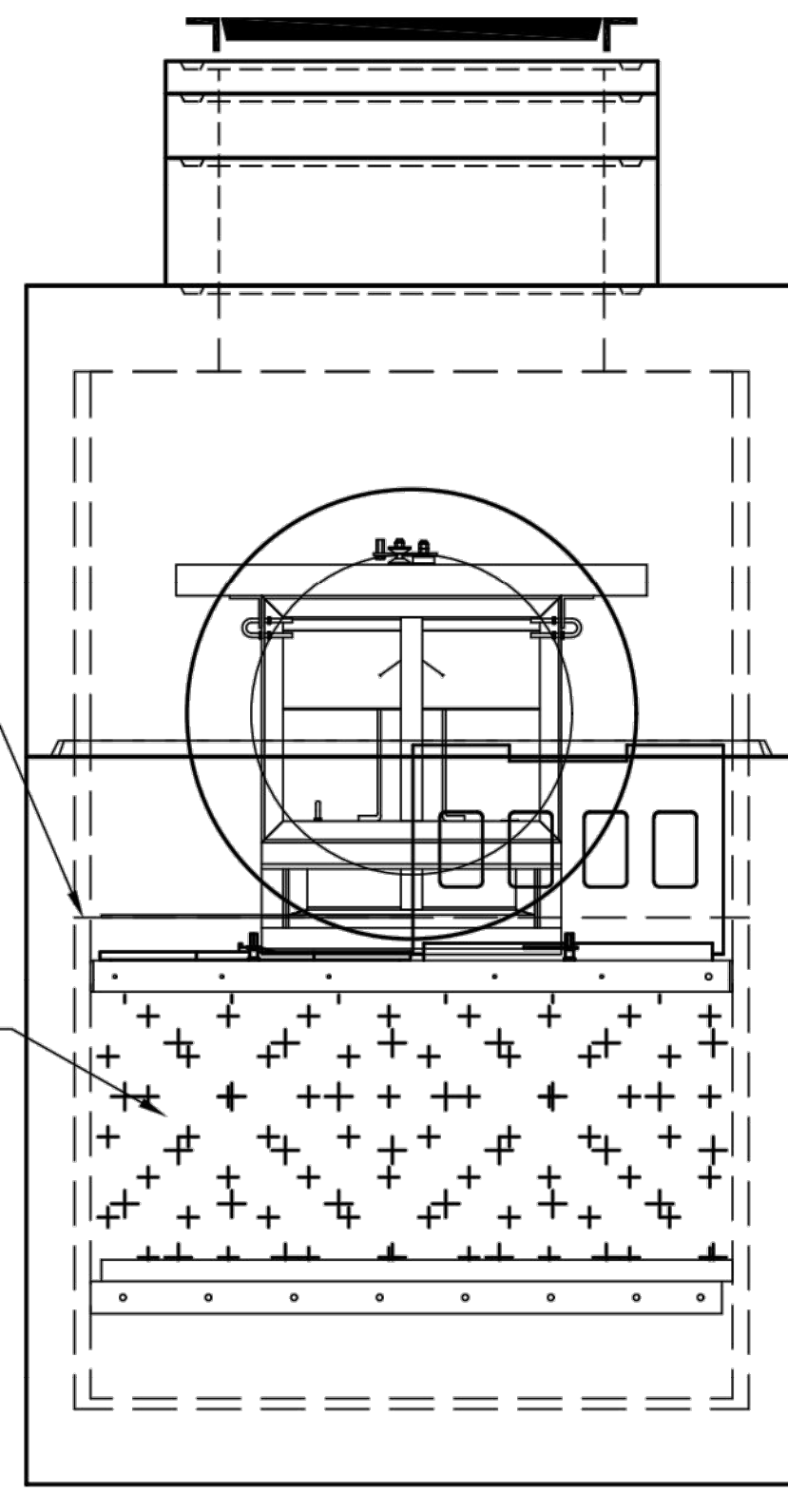
PLAN VIEW



ELEVATION VIEW



LEFT END VIEW



RIGHT END VIEW

- NOTES:
- DESIGN LOADINGS:
    - AASHTO HS-20-44 W/ IMPACT.
    - DESIGN FILL: 3' MAXIMUM.
    - ASSUMED WATER TABLE: AT TOP OF STRUCTURE.
    - DRY LATERAL EARTH PRESSURE (EFP) = 45 PCF.
    - LATERAL LIVE LOAD SURCHARGE = 80 PSF (APPLIED TO 8' BELOW GRADE).
    - NO LATERAL SURCHARGE FROM ADJACENT BUILDINGS, WALLS, PIERS, OR FOUNDATIONS.
  - CONCRETE 28 DAY COMPRESSIVE STRENGTH SHALL BE 5,000 PSI MINIMUM.
  - STEEL REINFORCEMENT: REBAR, ASTM A-615 OR A-706, GRADE 60.
  - CEMENT: ASTM C-150 SPECIFICATION.
  - REQUIRED ALLOWABLE SOIL BEARING PRESSURE = 2,500 PSF. CONTRACTOR RESPONSIBLE TO ENSURE ADEQUATE BEARING SURFACE IS PROVIDED (I.E. COMPACTED AND LEVEL PER PROJECT SPECIFICATIONS).
  - REFERENCE STANDARD:
    - ASTM C 890
    - ASTM C 913
    - ACI 318-14
  - INTERNALS SHALL CONSIST OF A FLOATING SKIMMER, FLOW DEFLECTORS, ELEVATED CENTRAL SCREEN SYSTEM, SLIDING LIDS, BOLD AND GOLD MEDIA AND MEDIA FILTER CHAMBER. THESE COMPONENTS EFFECTIVELY REDUCE HEAD LOSS, INCREASE POLLUTANT REMOVAL AND SIMPLIFY MAINTENANCE.
  - MAXIMUM PICK WEIGHT (COMBINED WEIGHT OF BASE, BAFFLE WALLS AND INTERNAL SCREEN SYSTEM) = XX.XXX LBS. SECTION HEIGHTS, SLAB/WALL THICKNESSES AND KEYWAYS ARE SUBJECT TO CHANGE DUE TO AVAILABILITY AND PRODUCTION PLANT CAPACITY..
  - FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT OLDCASTLE INFRASTRUCTURE.

- PRELIMINARY -  
NOT FOR CONSTRUCTION



Ph: 800.579.8819 | www.oldcastleinfrastructure.com/stormwater  
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Nutrient Separating Baffle Box® NSBB+UFF-510.5				
CUSTOMER				
JOB NAME Fruitland Park Mirror Lake Baffle Box - Intersection of Mirror Lake Drive and Olive Ave.				
DATE	MFG	DRAWN	ENGINEER	CHECKED
7/8/21	-	PPS	LDH	LDH
INTERNAL DRAWING ID		REVISION		SHEET
NSBB+UFF-510.5		-		1 OF 1

CONTACT DANIEL HAPPEL W/ FERGUSON WATERWORKS 407-859-7473  
THIS PRODUCT IS PROTECTED BY ONE OR MORE OF THE FOLLOWING US PATENT(S): 6,428,692; 7,270,747; 7,981,283; 8,142,666; 8,366,923; 8,491,797; 7,846,327; 8,034,236; RELATED FOREIGN PATENTS, OR OTHER PATENTS PENDING.

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Fruitland Park, Florida  
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STORMWATER IMPROVEMENTS  
BAFFLE BOX  
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