

ROLES

1. OWNER: MANATEE COUNTY UTILITIES DEPARTMENT (COUNTY)
2. DESIGNER: AMEC FOSTER WHEELER (ENGINEER)

GENERAL NOTES

1. SUBMIT TO THE COUNTY, FOR APPROVAL, A PROPOSED CONSTRUCTION WORK PLAN PRIOR TO BEGINNING WORK.
2. INVESTIGATE, LOCATE, SUPPORT, PROTECT AND/OR RESTORE ALL EXISTING UTILITIES, WHETHER SHOWN ON THESE PLANS OR NOT. CALL THE UTILITIES PROTECTION SERVICE AT LEAST 72 HOURS PRIOR TO ANY CONSTRUCTION, AND SHALL NOTIFY ALL UTILITY COMPANIES AT LEAST 48 HOURS PRIOR TO WORK IN THE VICINITY OF THEIR UNDERGROUND LINES. COORDINATING WITH OWNER AND LOCATE PRIVATE UTILITIES ON SITE.
3. CONFIRM ALL FIELD MEASUREMENTS NECESSARY FOR EXECUTION OF THE WORK PRIOR TO ORDERING ANY MATERIAL.
4. IF CONTRACTOR ACCESSES THE PROJECT VIA ADJACENT PROPERTY, OR UTILIZES OTHER PROPERTY FOR PROJECT WORK, ARRANGE AND PROCURE ANY PERMITS, COORDINATION, CONSTRUCTION MAINTENANCE, AND CLEAN-UP ON THE PRIVATE PROPERTIES.
5. MAINTAIN THE STABILITY OF EXISTING STRUCTURES, AND TEMPORARY/PERMANENT EARTH SLOPES THROUGHOUT CONSTRUCTION OPERATIONS, SUCH AS BY INSTALLING TEMPORARY SUPPORTS, SHORING, BRACING OR OTHER MEASURE AS MAY BE NECESSARY AT NO ADDITIONAL COSTS.
6. MAINTAIN TEMPORARY CONSTRUCTION EXCAVATION IN ACCORDANCE WITH OSHA, STATE, AND FEDERAL REGULATIONS.
7. ON-SITE CONSTRUCTION BY OTHERS, INCLUDING ROUTINE MAINTENANCE WORK MAY OCCUR THROUGHOUT THIS CONTRACT. COORDINATE CONSTRUCTION ACTIVITIES THROUGH THE OWNER TO MINIMIZE INTERFERENCE WITH OTHERS.
8. COORDINATE ANY ROAD CLOSURE, REROUTING OF TRAFFIC, OR INSTALLATION OF TRAFFIC MANAGEMENT DEVICES WITH OWNER.
9. COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS GOVERNING THE WORK.
10. OWNER RESERVES THE RIGHT TO HALT OR STOP WORK FOR ANY REASON DURING THE PERIOD OF CONSTRUCTION. IF WORK IS STOPPED DUE TO FAULT OF CONTRACTOR (UNSAFE PRACTICES, DAMAGE TO PROPERTY, DISRUPTION TO FACILITY, ETC.), NO COMPENSATION FOR DELAYS OR OTHER MONETARY LOSSES WILL BE PROVIDED.
11. NOTE THAT WORK IS TO BE PERFORMED ALONG AN ACTIVE IMPOUNDMENT. EXERCISE EXTREME CARE TO KEEP FROM FROM ADVERSELY AFFECTING EARTHEN DAM. CONTINUOUSLY MONITOR PERFORMANCE OF DAM AND NOTIFY OWNER AND ENGINEER IMMEDIATELY OF NOTICEABLE SLOPE INSTABILITY.
12. AREA OF DISTURBANCE IS EXPECTED TO BE LESS THAN 1 ACRE. IF LAND DISTURBING ACTIVITIES EXCEED 1 ACRE, OBTAIN NPDES PERMIT TO INCLUDE, BUT NOT BE LIMITED TO A STORMWATER POLLUTION PREVENTION PLAN, IF REQUIRED. CONTRACTOR SHALL FOLLOW EROSION AND SEDIMENT CONTROL, BEST MANAGEMENT PRACTICES IN ACCORDANCE WITH FDEP FOR ON-SITE CONSTRUCTION ACTIVITIES.
13. TEMPORARILY BRACE ALL STRUCTURES AS REQUIRED FOR STABILITY AND SAFETY.

WORKS BY OTHERS

1. ALL WORK ON THIS PROJECT SHALL BE CONSTRUCTED BY THE CONTRACTOR, UNLESS NOTED OTHERWISE.

SPECIFICATIONS

1. PERFORM THE WORK IN ACCORDANCE WITH THESE DRAWINGS. IN ADDITION TO THESE PLANS, REFERENCE TO THE FOLLOWING DOCUMENTS SHALL BE CONSIDERED PART OF THE PROJECT DOCUMENTS:
 - A. FLORIDA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS", 2018 EDITION.
 - B. FLORIDA BUILDING CODE, 2017
2. IF THERE IS ANY CONFLICT BETWEEN AGENCIES, PLANS, ETC., THE MOST STRINGENT CRITERIA GOVERN.
3. IF THERE IS ANY CONFLICT BETWEEN PLANS AND REFERENCED SPECIFICATIONS, THE PLANS GOVERN.

DESIGN NOTES

1. ALL DIMENSIONS ARE IN US CUSTOMARY UNITS.
2. VERTICAL ELEVATIONS ON THE PROJECT PLANS ARE SHOWN WITH REFERENCE TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
3. DRAWINGS HAVE BEEN PREPARED BASED ON SURVEY DATA AND OTHER AVAILABLE INFORMATION. THE CONTRACTOR CAN EXPECT AND SHOULD PLAN ON ENCOUNTERING VARIANCES AND DEVIATIONS BETWEEN THE INFORMATION IN THE DRAWINGS AND THE EXISTING SITE CONDITIONS. ACTUAL FIELD CONDITIONS MAY REQUIRE MODIFICATIONS IN CONSTRUCTION DETAILS AND QUANTITIES.
4. DO NOT SCALE DIMENSIONS FROM THE CONTRACT PLANS FOR CONSTRUCTION PURPOSES. SCALES ARE SHOWN FOR INFORMATION ONLY. FIELD VERIFY ALL DETAILS INCLUDING GEOMETRY AND ELEVATIONS PRIOR TO THE FABRICATION AND INSTALLATION OF ANY MATERIALS. SUBMIT COPIES OF FIELD SURVEYS AND VERIFICATIONS TO THE ENGINEER FOR INCLUSION INTO THE CONSTRUCTION RECORDS FOR THE PROJECT.
5. ALL DIMENSIONS AND ELEVATIONS SHOWN IN THESE PLANS APPLY TO THE PROPOSED FINISHED GRADE AND STRUCTURE.
6. ELEVATIONS SHOWN IN THESE PLANS ARE BASED ON SURVEY CONTROL POINT ELEVATIONS ESTABLISHED IN THE FIELD.

CONTROL OF ALL WORK

1. ALL METHODS OF HANDLING WORK AFFECTING PLANT TRAFFIC AND THE SAFETY OF PLANT OPERATIONS MUST BE APPROVED BY THE OWNER BEFORE PROCEEDING WITH THAT PORTION OF THE WORK.

PREMOBILIZATION ACTIVITIES

1. AFTER REQUIRED PERMITS HAVE BEEN OBTAINED FROM LOCAL, STATE, AND FEDERAL AUTHORITIES, AND PRIOR TO THE COMMENCEMENT OF WORK, PERFORM ANY ADDITIONAL GEOTECHNICAL INVESTIGATION AND BATHYMETRY SURVEY REQUIRED TO COMPLETE THE WORK.
2. ESTABLISH AND MAINTAIN HORIZONTAL AND VERTICAL CONTROL, SURVEY BASELINE, DISPOSAL DETAILS, VOLUME AND QUANTITY REQUIREMENTS, AND ANY ENVIRONMENTAL PROTECTION MEASURES.
3. ALL MOBILIZATION ACTIVITIES REQUIRE ENVIRONMENTAL PROTECTION, INCLUDING HANDLING OF HAZARDOUS MATERIALS, SPILL PREVENTION, NOISE ABATEMENT, AND GENERAL ENVIRONMENTAL AWARENESS. CONDUCT WORK SO THAT ALL APPLICABLE LAWS, REGULATIONS, AND ORDINANCES IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL AUTHORITIES ARE MET.

SERVICE BRIDGE ALLOWABLE LOADING

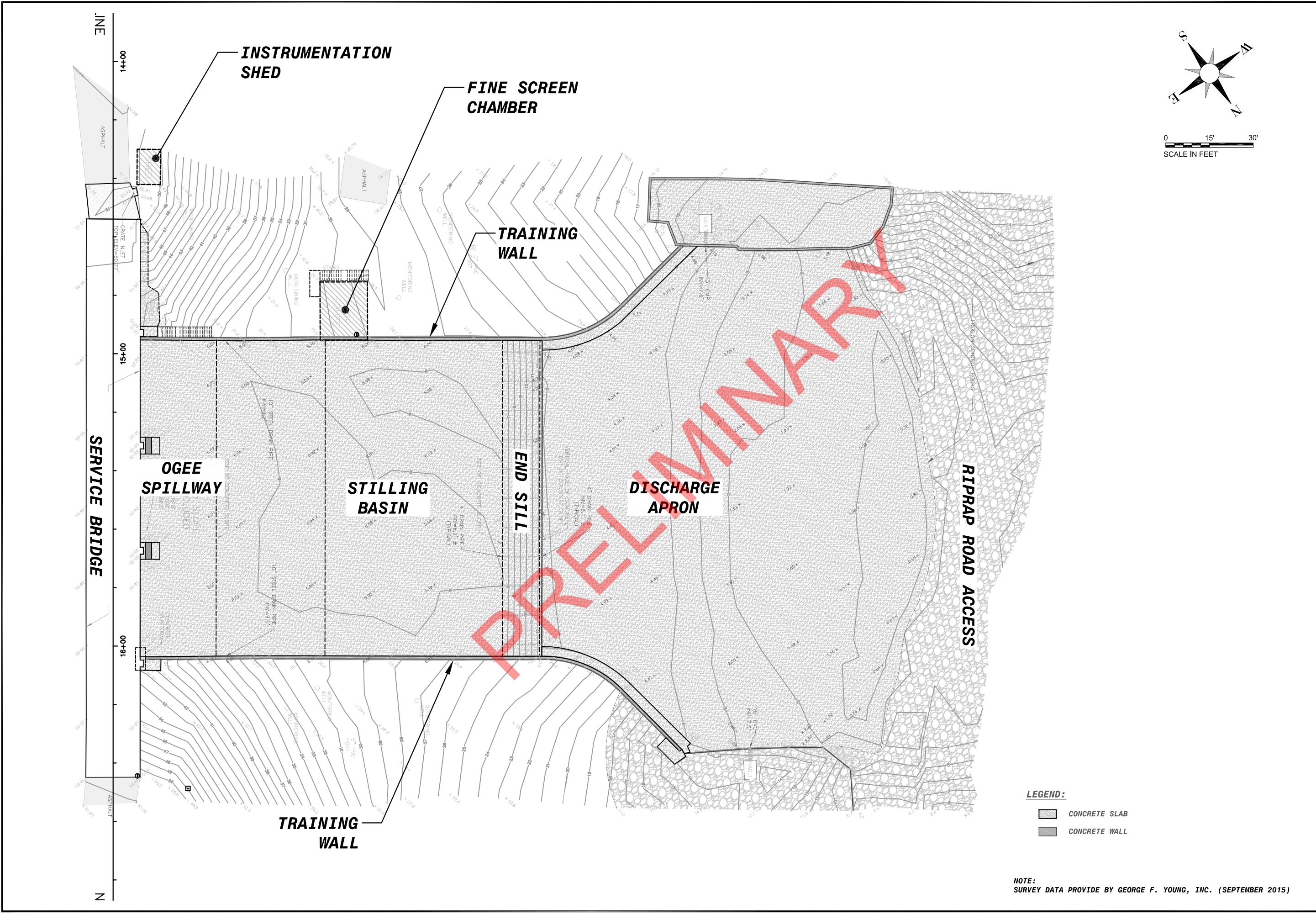
1. THE SERVICE BRIDGE OVER THE EXISTING TAINTER GATES IS RATED FOR A 35 TON, 4 AXLE TRUCK (FDOT STANDARD S/U-4). PLAN THE WORK SO THAT THE CAPACITY OF THE BRIDGE IS NOT EXCEEDED.
2. LIMIT VEHICLE SPEED ON THE SERVICE BRIDGE TO 10 MPH OR LESS.
3. DO NOT SUBJECT THE 1" X 8" WELDED STEEL GALVANIZED GRATING OVER THE STOP LOG RECESS TO VEHICLE LOADING.

ACCESS ACROSS MANATEE RIVER

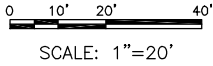
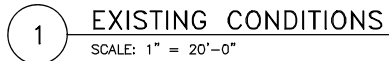
1. THE MANATEE RIVER MAY BE CROSSED WITH HEAVY TRAFFIC IMMEDIATELY DOWNSTREAM OF THE SERVICE SPILLWAY ALONG AN EXISTING RIPRAP ROAD. UPGRADE AND MAINTAIN THE ROAD AS NECESSARY FOR USE DURING CONSTRUCTION.
2. THE EXISTING RIPRAP ROAD IS SUBJECT TO PERIODIC INUNDATION BY THE RIVER DURING HIGH STORM EVENTS THAT MAY OCCUR THROUGHOUT THE YEAR, PARTICULARLY BETWEEN JUNE AND SEPTEMBER.

[illegible]

PROJECT NUMBER: 300472x4 CITY: TAMPA
Z:\Geotech\300000\Projects\300472x4 Lk Manatee\Drawings\Downstream Design\2018\March_2018\300472x4_CD_Downstream Repairs Design_PV.dwg LAYOUT: SHEET 102 SAVED: 4/6/2018 11:50 AM PLOTSTYLETABLE: CIVIL-MASTER.CTB PLOTTED: 4/6/2018 12:09 PM DRAWN BY: VIVES, MARTIN



LAKE MANATEE RESERVOIR MANATEE COUNTY UTILITIES DEPARTMENT		amec foster wheeler Amec Foster Wheeler Environment & Infrastructure, Inc. 1101 Channelide Drive, Suite 200, Tampa, FL 33602 Phone: 1.833.289.0750 Fax: 1.833.289.5474 www.amecfw.com CA-5392	
DOWNSTREAM REPAIRS CONSTRUCTION DESIGN TOPOGRAPHY & EXISTING CONDITIONS MANATEE COUNTY, FLORIDA		NO.	DATE
DATE: April 6, 2018			
DRAWN BY: M.VIVES			
CHECKED BY: T.ANDREY			
PROJECT NO.: 300472X4			
SHEET 102		REVISION	



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LAKE MANATEE DAM
MANATEE COUNTY UTILITIES DEPARTMENT

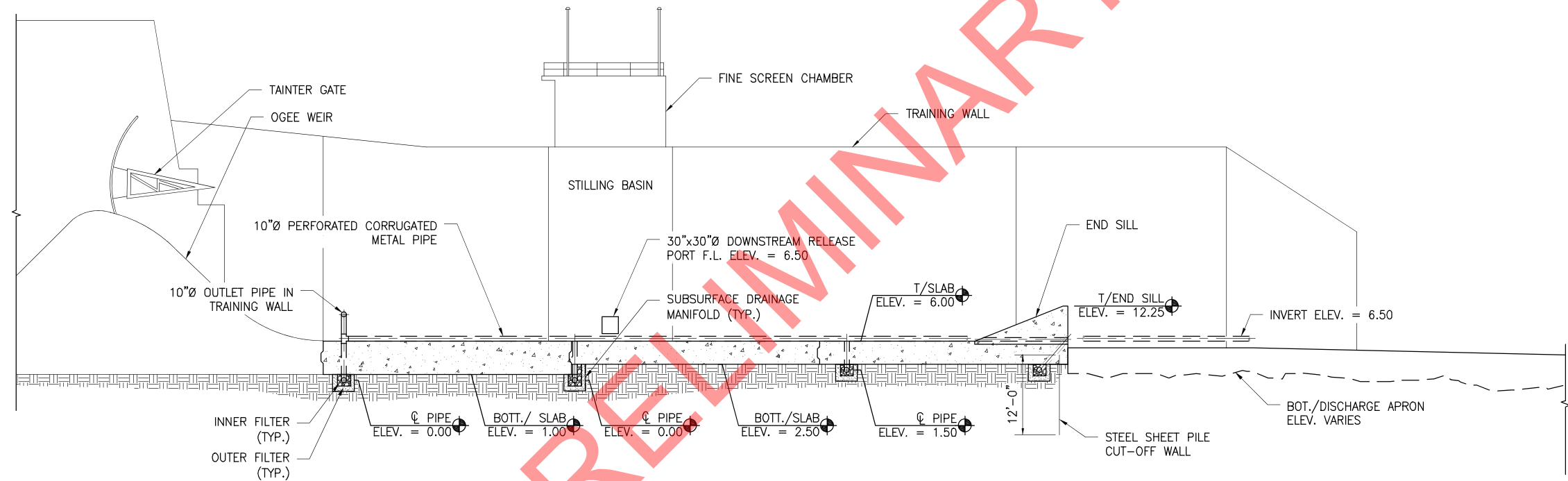
DOWNSTREAM REPAIRS CONSTRUCTION DESIGN
EXISTING CONDITIONS - PLAN VIEW
MANATEE COUNTY, FLORIDA

DATE: April 10, 2018
DRAWN BY: J.VINCENT
CHECKED BY: M.LEON
PROJECT NO.: 300472X4

FLA. REG. NO. _____

DATE: _____

PROJECT NUMBER: 300472x4 CITY: ATLANTA
J:\300472x4 Lake Manatee Reservoir\CAD\NEW WORKS\Sheets\G-300.dwg LAYOUT: 104 SAVED: 4/10/2018 6:05 PM PLOTSTYLETABLE: --- PLOTTED: 4/10/2018 6:06 PM DRAWN BY: VINCENT, JAMES



NOTE: DISCHARGE APRON SHEET PILING NOT SHOWN.

1 SECTION OF EXISTING STILLING BASIN AND UNDERDRAIN SYSTEM
SCALE: 1" = 10'-0"

0 10' 20'
SCALE: 1"=10'



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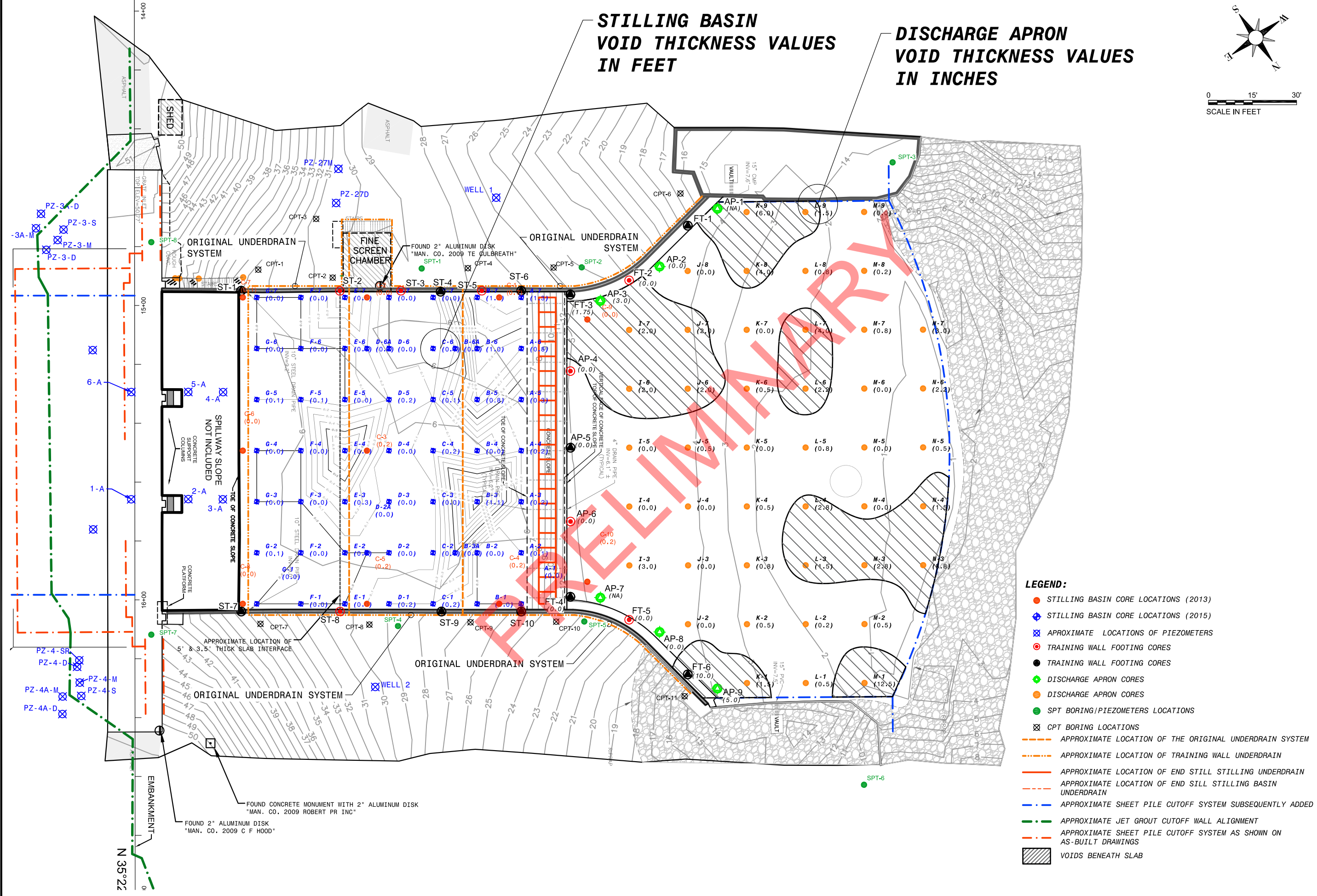
LAKE MANATEE DAM
MANATEE COUNTY UTILITIES DEPARTMENT

DOWNSTREAM REPAIRS CONSTRUCTION DESIGN
EXISTING CONDITIONS - PROFILE VIEW
MANATEE COUNTY, FLORIDA

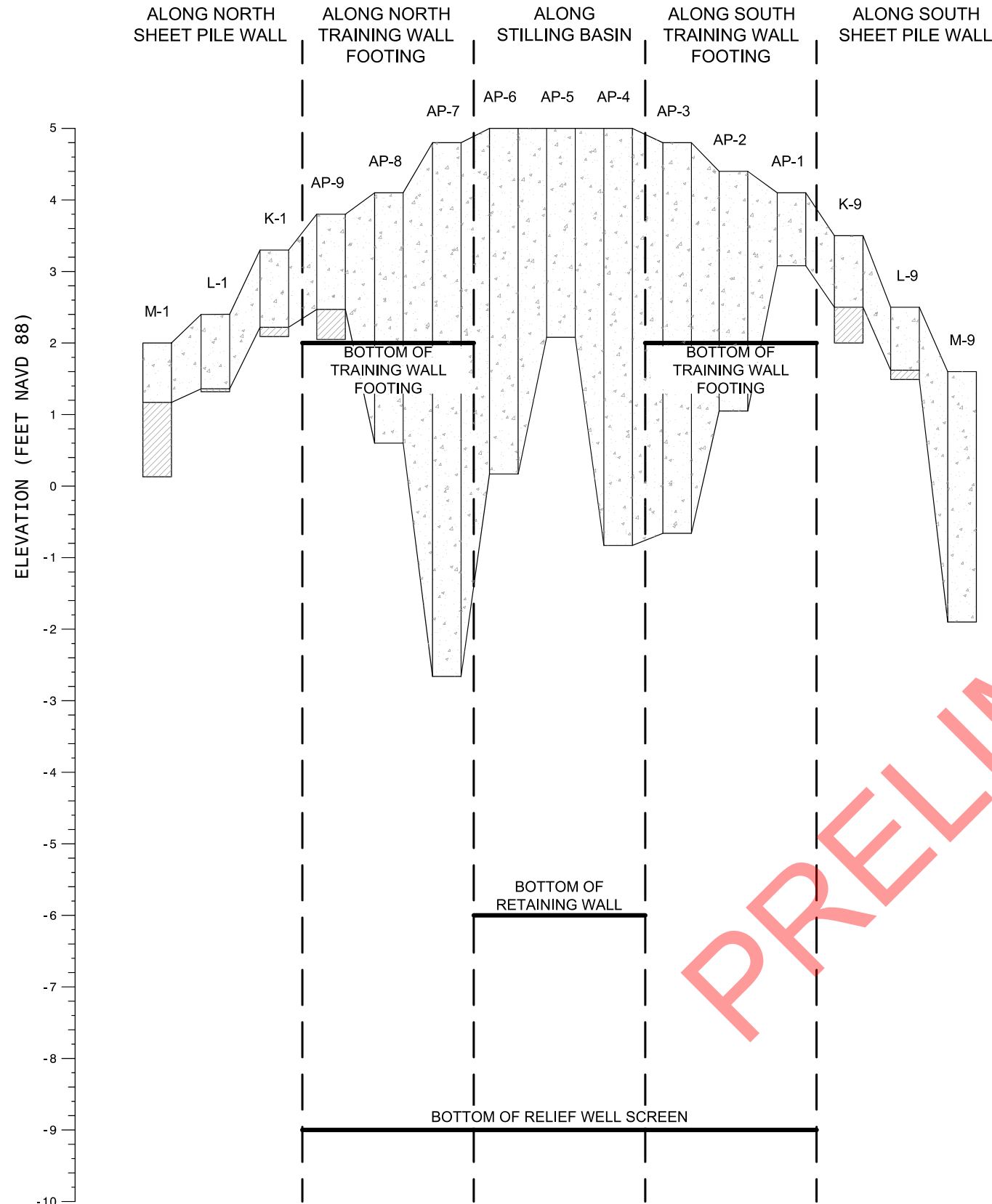
DATE: April 10, 2018
DRAWN BY: J. VINCENT
CHECKED BY: M. LEON
PROJECT NO.: 300472X4

FLA. REG. NO.

DATE:



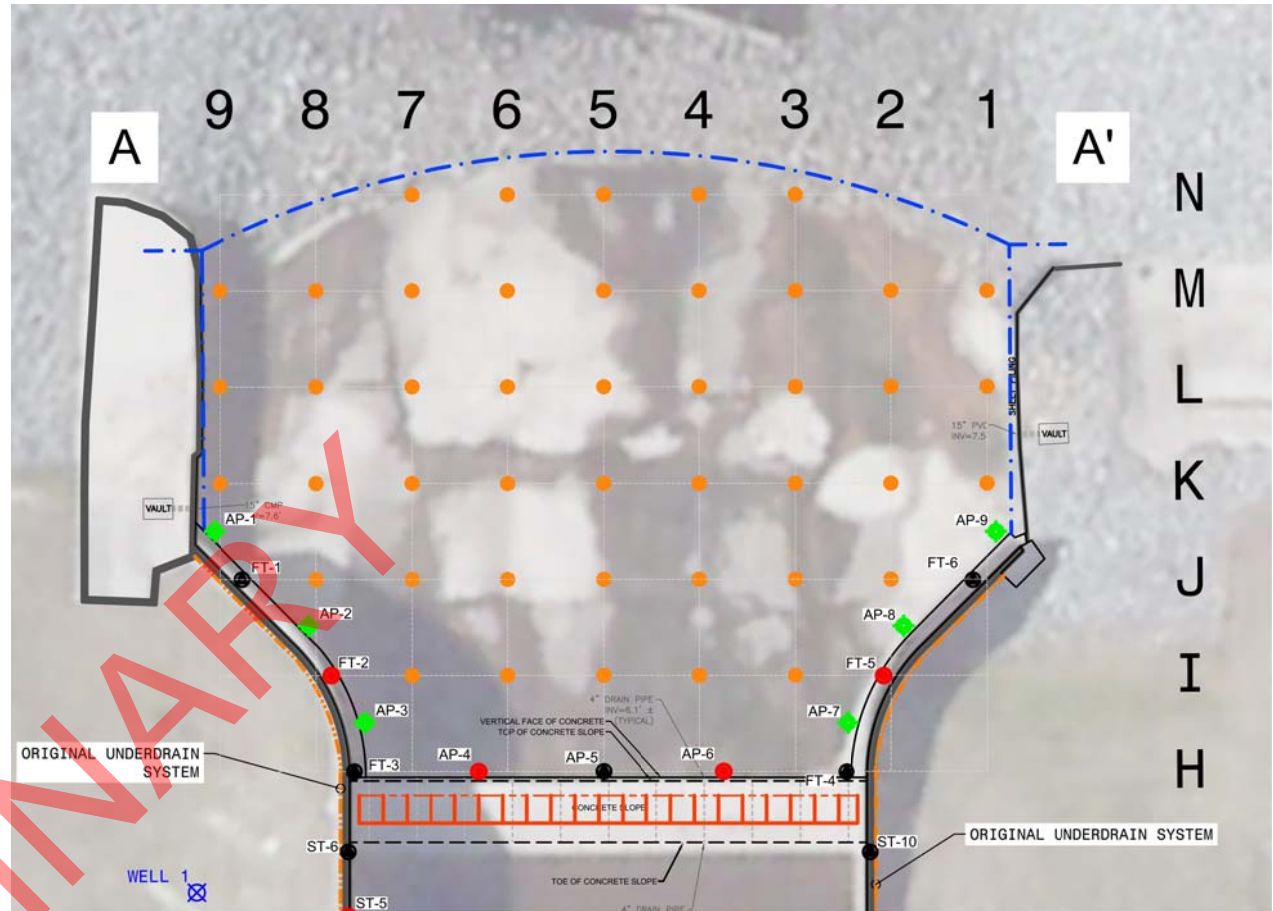
PROJECT NUMBER: 300472x4 CITY: TAMPA
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LEGEND

- CONCRETE
- VOID

SECTION A-A'



LEGEND:

- APPROXIMATE LOCATIONS OF PIEZOMETERS
- TRAINING WALL FOOTING CORES
- TRAINING WALL FOOTING CORES
- DISCHARGE APRON CORES
- PHASE II APRON CORES
- APPROXIMATE LOCATION OF THE ORIGINAL UNDERDRAIN SYSTEM
- APPROXIMATE LOCATION OF TRAINING WALL UNDERDRAIN
- APPROXIMATE LOCATION OF END STILL STILLING UNDERDRAIN
- APPROXIMATE LOCATION OF END SILL STILLING BASIN UNDERDRAIN
- APPROXIMATE SHEET PILE CUTOFF SYSTEM SUBSEQUENTLY ADDED
- APPROXIMATE JET GROUT CUTOFF WALL ALIGNMENT
- APPROXIMATE SHEET PILE CUTOFF SYSTEM AS SHOWN ON AS-BUILT DRAWINGS

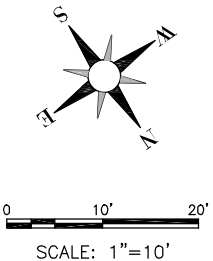
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LAKE MANATEE RESERVOIR
MANATEE COUNTY UTILITIES DEPARTMENT

DOWNSTREAM REPAIRS CONSTRUCTION DESIGN
EXISTING CONDITIONS-DISCHARGE APRON CONCRETE THICKNESS
MANATEE COUNTY, FLORIDA

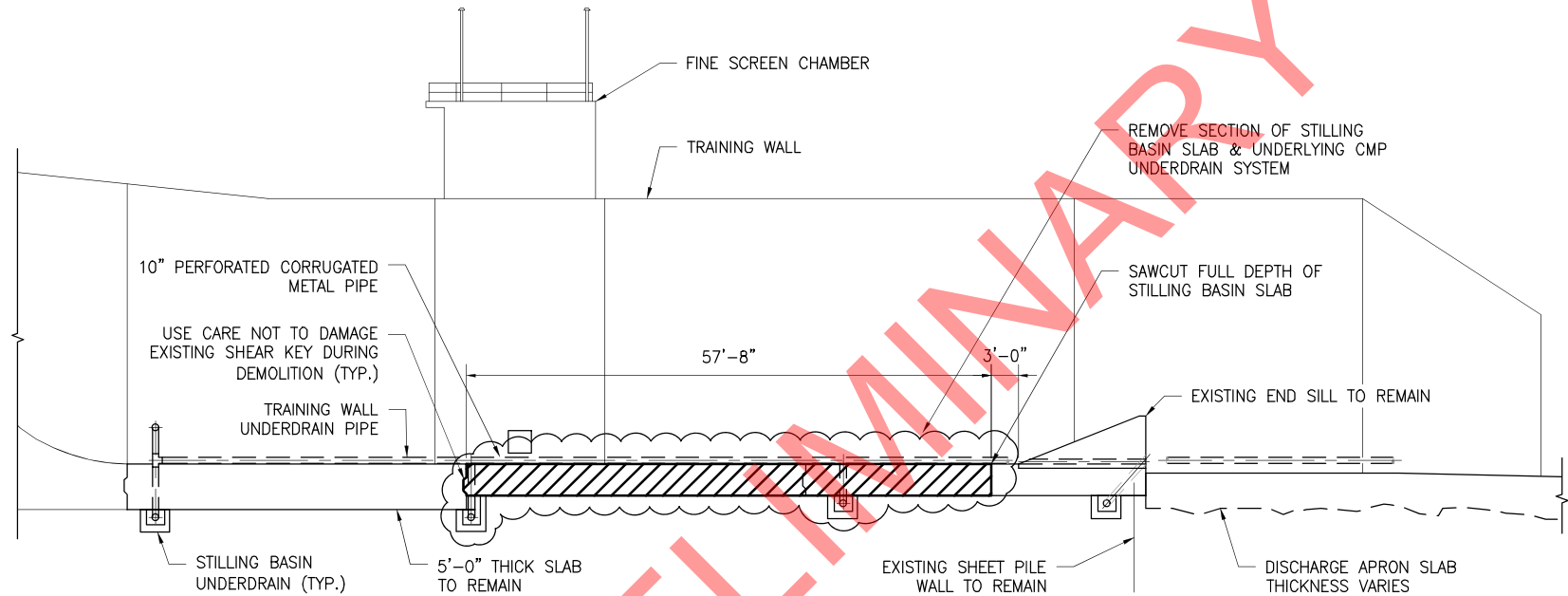
DATE: April 10, 2018
DRAWN BY: M.VIVES
CHECKED BY: T.ANDREY
PROJECT NO.: 300472x4



1 DEMOLITION PLAN – STILLING BASIN SLAB AND DISCHARGE APRON
SCALE: 1" = 10'-0"

<p>LAKE MANATEE DAM MANATEE COUNTY UTILITIES DEPARTMENT</p>		 <p>amec foster wheeler</p>			
<p>DOWSTREAM REPAIRS CONSTRUCTION DESIGN DEMOLITION LAYOUT - STILLING BASIN & DISCHRG. APRON MANATEE COUNTY, FLORIDA</p>		<p>Amec Foster Wheeler Environment & Infrastructure, Inc. 1101 Chameliste Drive, Suite 200, Tampa, FL 33602 Phone: 1.813.288.0750 Fax: 1.813.289.3474 www.amecfrw.com CA-5392</p>			
<p>DATE: <u>April 10, 2018</u></p>					
<p>DRAWN BY: <u>J.VINCENT</u></p>					
<p>CHECKED BY: <u>M.LEON</u></p>					
<p>PROJECT NO.: <u>390472X4</u></p>					
<p>FLA. REG. NO. _____</p>					
<p>DATE: _____</p>					
				<p>NO. DATE REVISION</p>	

PROJECT NUMBER: 300472x4 CITY: ATLANTA
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1 DEMOLITION - TYPICAL SECTION THROUGH STILLING BASIN SLAB
SCALE: 1" = 10'-0"

0 10' 20'
SCALE: 1"=10'



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LAKE MANATEE DAM
MANATEE COUNTY UTILITIES DEPARTMENT

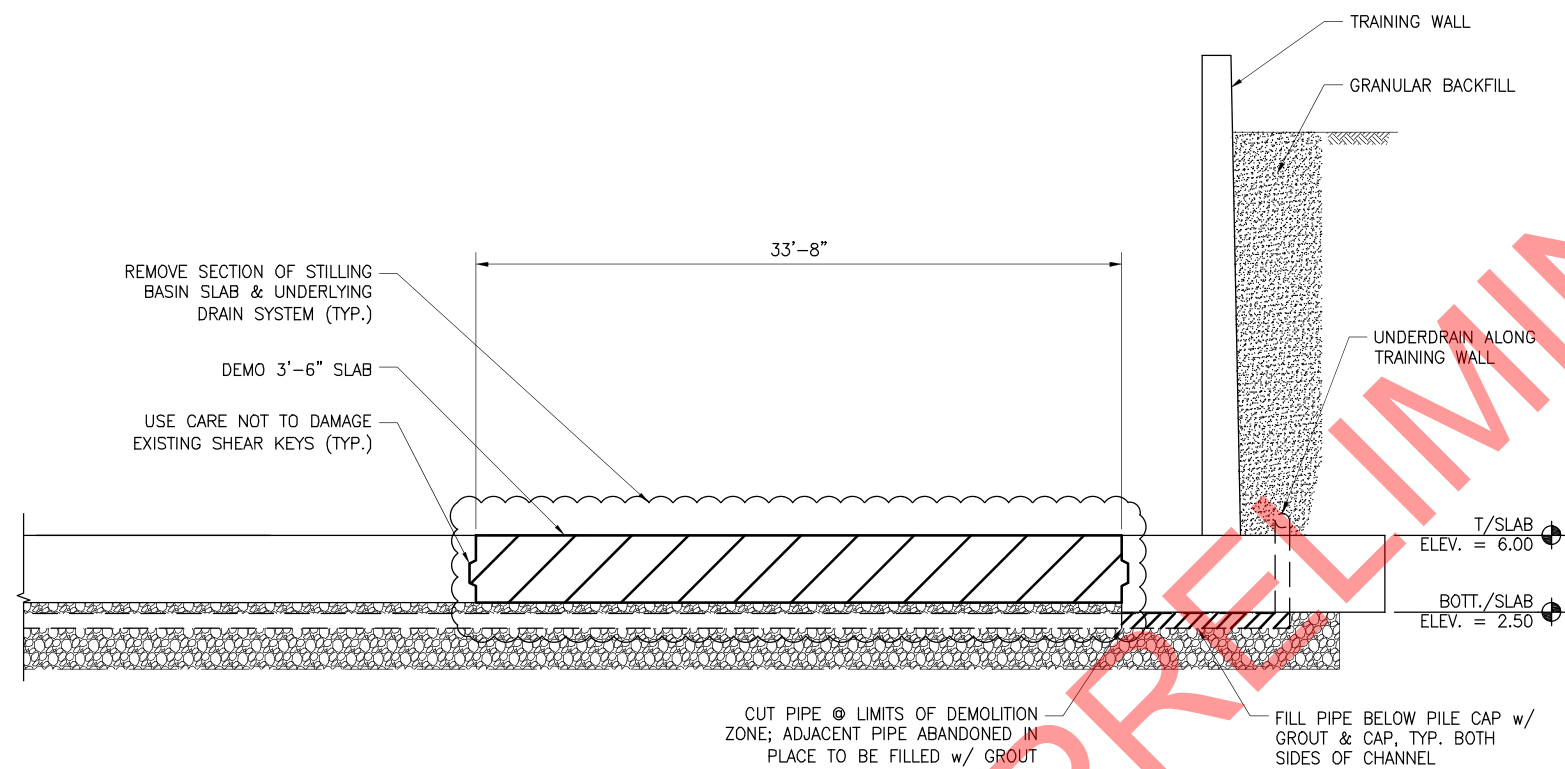
DOWNSTREAM REPAIRS CONSTRUCTION DESIGN
DEMOLITION SECTION - STILLING BASIN 1 OF 2
MANATEE COUNTY, FLORIDA

DATE: April 10, 2018
DRAWN BY: J.VINCENT
CHECKED BY: M.LEON
PROJECT NO.: 300472X4

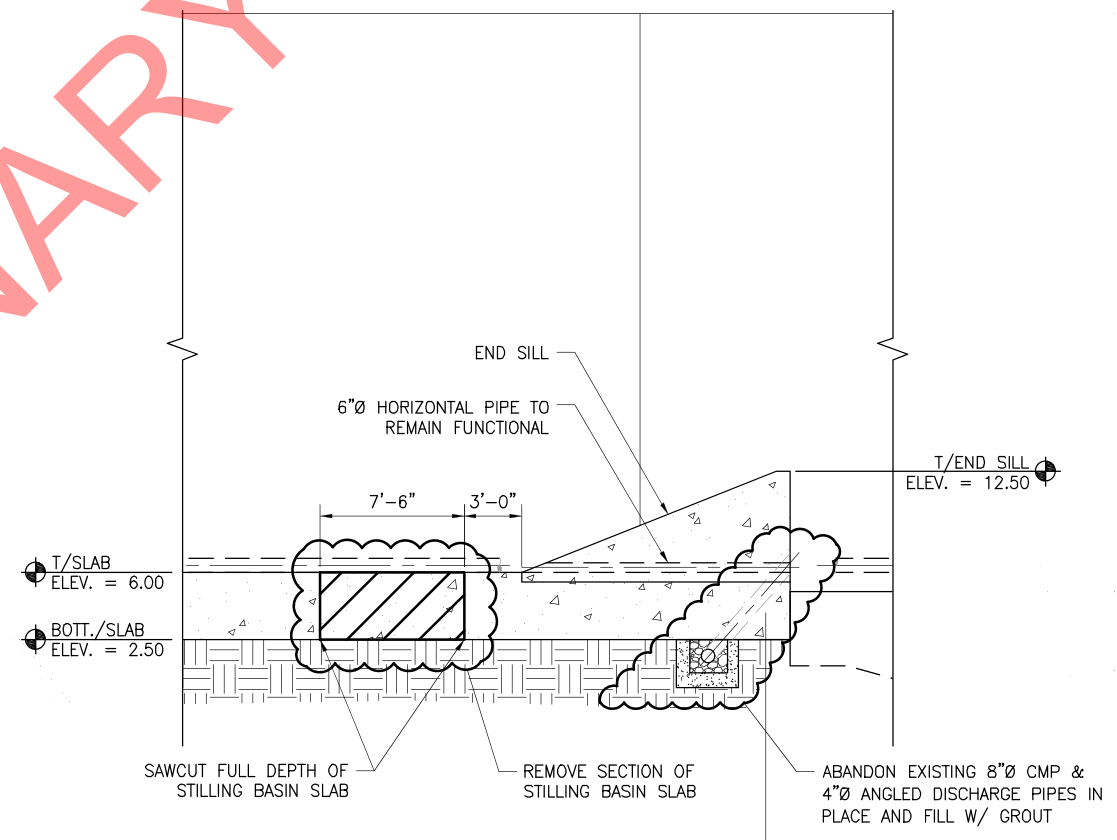
FLA. REG. NO.

DATE:

PROJECT NUMBER: 300472x4 CITY: ATLANTA
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1 DEMOLITION - TYPICAL TRANSVERSE SECTION THROUGH STILLING BASIN SLAB
SCALE: 1" = 5'-0"



2 DEMOLITION - TYPICAL TRANSVERSE SECTION THROUGH STILLING BASIN SLAB
SCALE: 1" = 5'-0"

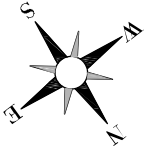
0 5' 10'
SCALE: 1" = 5'

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LAKE MANATEE DAM
MANATEE COUNTY UTILITIES DEPARTMENT
DOWNSTREAM REPAIRS CONSTRUCTION DESIGN
DEMOLITION SECTION - STILLING BASIN 2 OF 2
MANATEE COUNTY, FLORIDA

DATE: April 10, 2018
DRAWN BY: J. VINCENT
CHECKED BY: M. LEON
PROJECT NO.: 300472x4

FLA. REG. NO.
DATE:

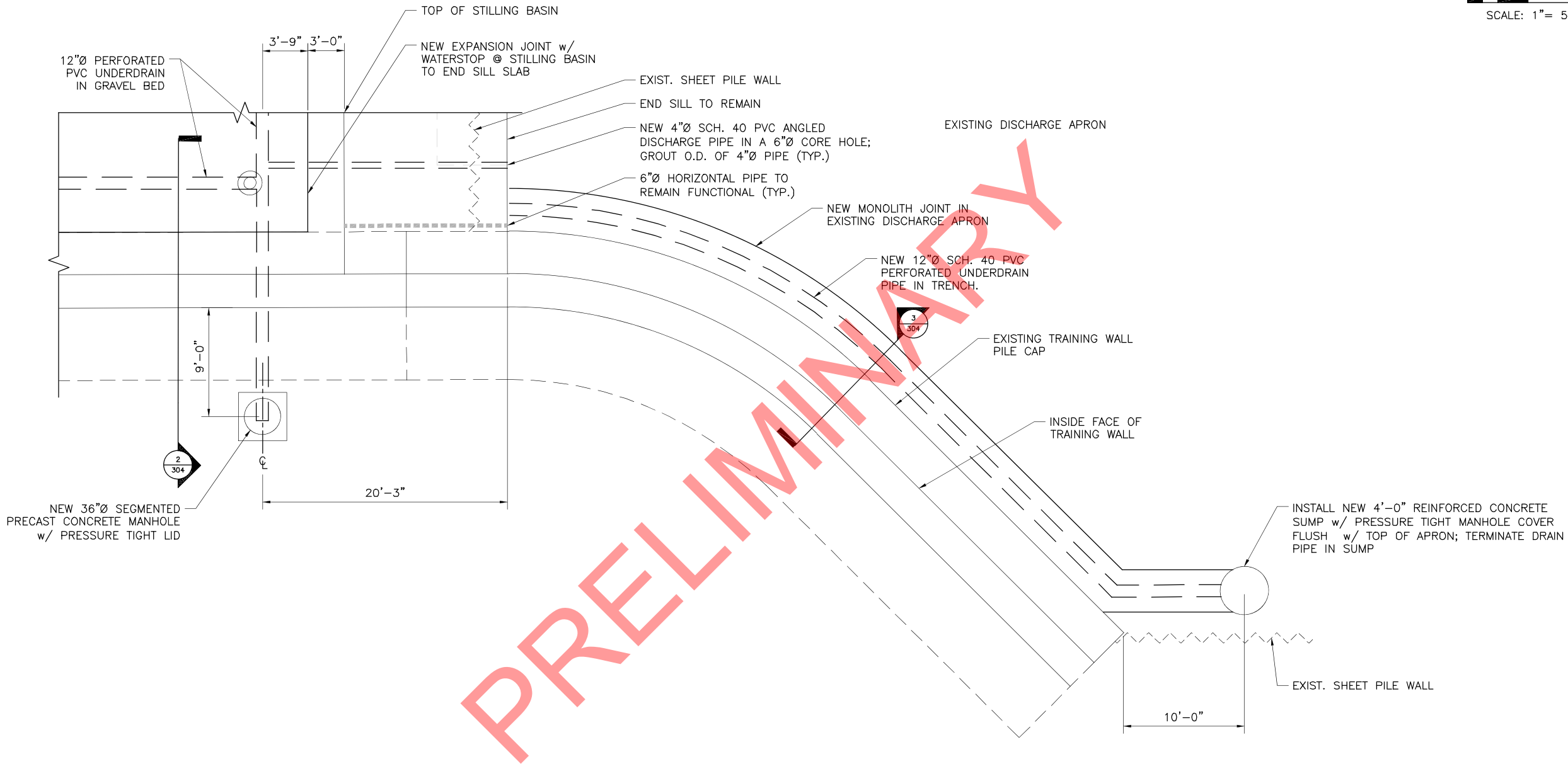


0 10' 20'

SCALE: 1"=10'

1 NEW SLAB AND UNDERDRAIN PLAN

PROJECT NUMBER: 300472x4 CITY: ATLANTA
J:\300472x4 Lake Manatee Reservoir CAD\NEW WORKS\Sheets\S-201.dwg LAYOUT: 301 SAVED: 4/10/2018 6:25 PM PLOTSTYLETABLE: --- PLOTTED: 4/10/2018 6:26 PM DRAWN BY: VINCENT, JAMES



1 ENLARGED PLAN AT DISCHARGE APRON ALONG WING WALL

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LAKE MANATEE DAM
MANATEE COUNTY UTILITIES DEPARTMENT

DOWNSTREAM REPAIRS CONSTRUCTION DESIGN
UNDERDRAIN LAYOUT - DISCHARGE APRON
MANATEE COUNTY, FLORIDA

DATE: April 10, 2018
DRAWN BY: J. VINCENT
CHECKED BY: M. LEON
PROJECT NO.: 300472X4

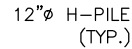
FLA. REG. NO.

DATE:


301



SCALE: $3/16" = 1'-0"$



SCALE: $3/16" = 1'-0"$



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MANATEE COUNTY UTILITIES DEPARTMENT

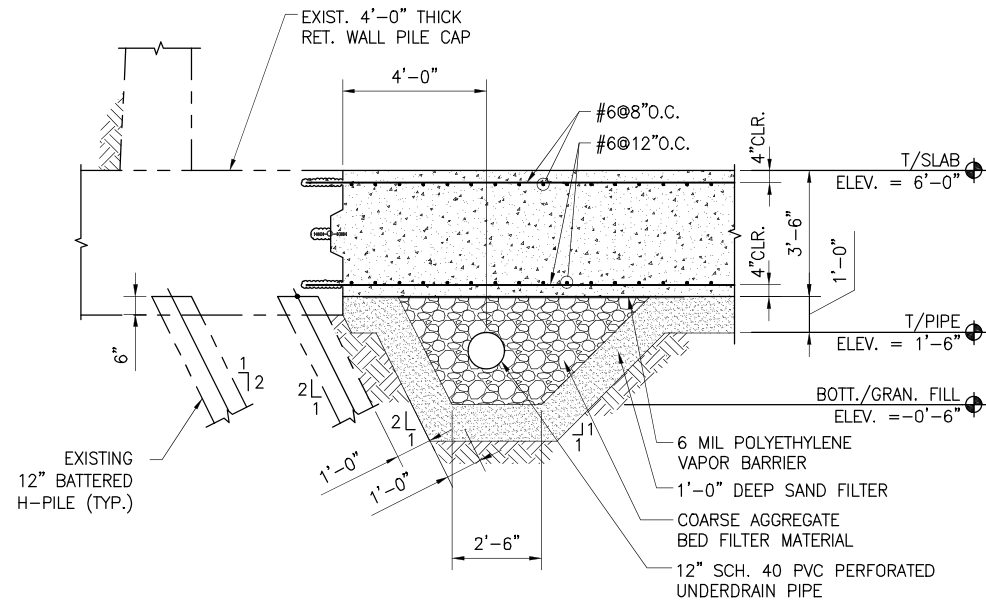
**UNDERDRAIN SECTIONS - STILLING BASIN
MANATEE COUNTY, FLORIDA**

DATE: April 10, 2018
DRAWN BY: J.VINCENT
CHECKED BY: M.LEON
PROJECT NO.: 300472X4

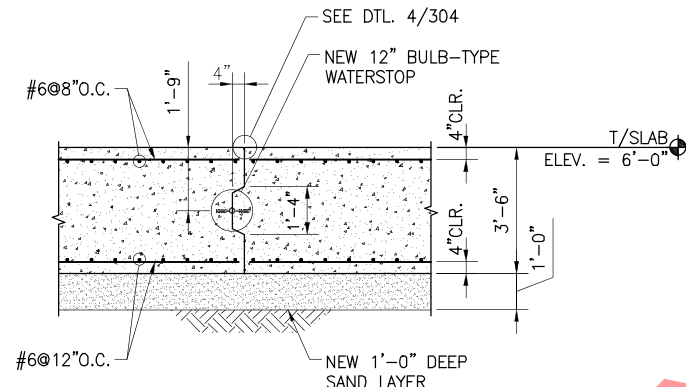
FLA. REG. NO.

DATE: _____

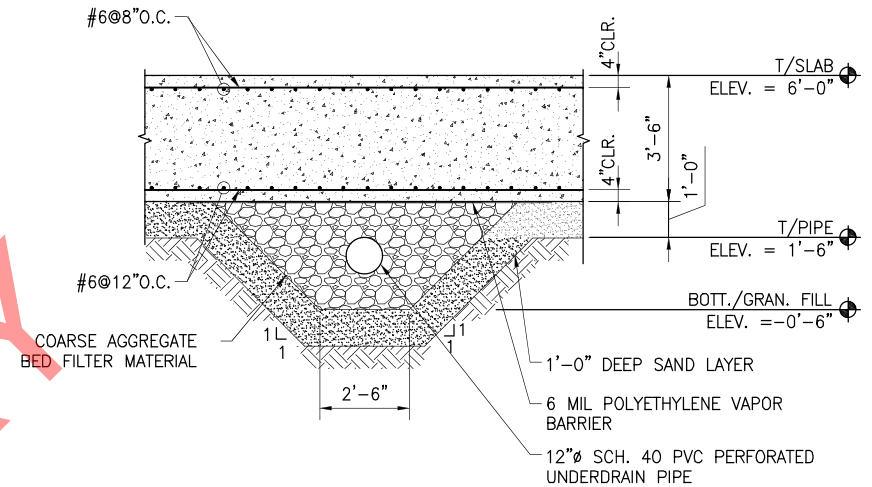
PROJECT NUMBER: 300472x4 CITY: ATLANTA
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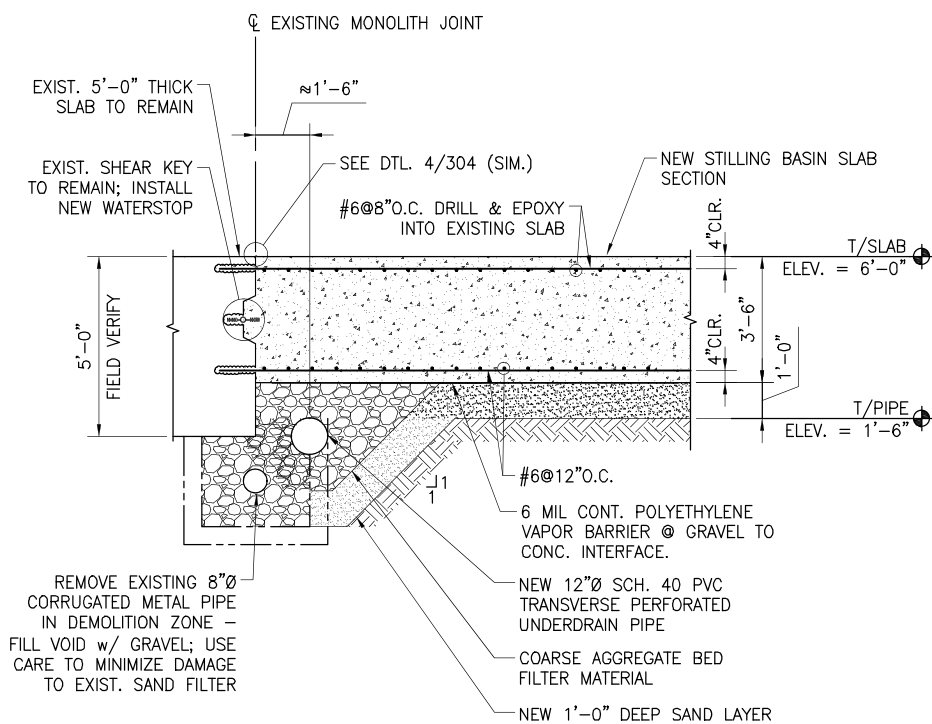
1 SECTION — TYPICAL UNDERDRAIN
ALONG TRAINING WALL
SCALE: 3/8" = 1'-0"



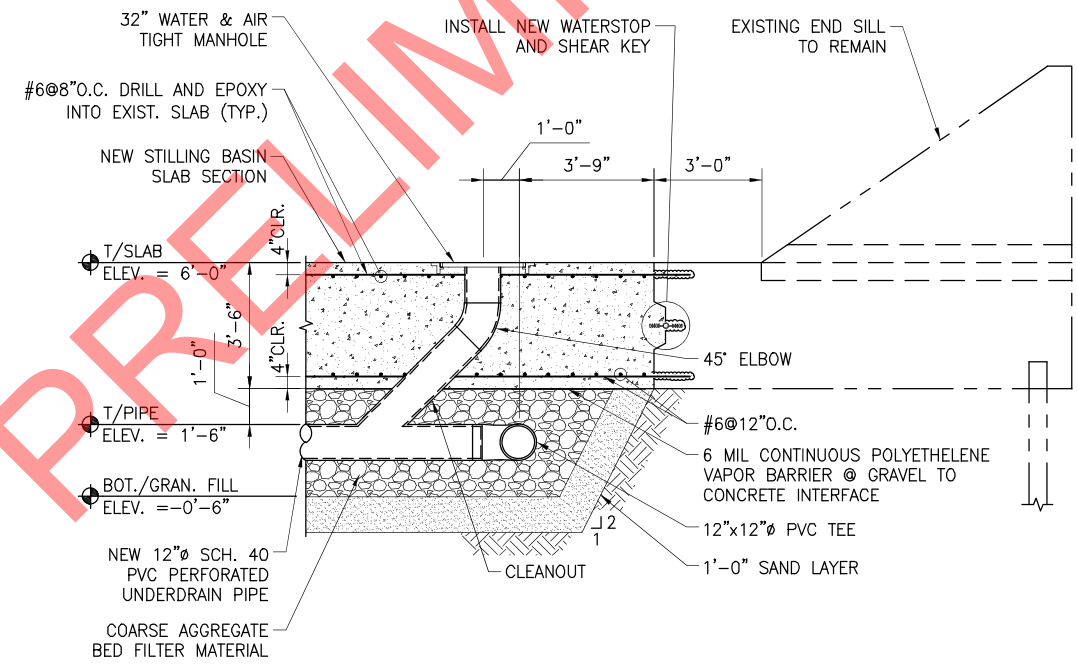
2 SECTION — TYPICAL MONOLITH JOINT DETAIL
SCALE: 3/8" = 1'-0"



3 SECTION — TYPICAL UNDERDRAIN
PARALLEL TO END SILL
SCALE: 3/8" = 1'-0"



4 SECTION — TYPICAL UNDERDRAIN
ALONG 5'-0" SLAB
SCALE: 3/8" = 1'-0"



5 SECTION — UNDERDRAIN PARALLEL
TO END SILL
SCALE: 3/8" = 1'-0"

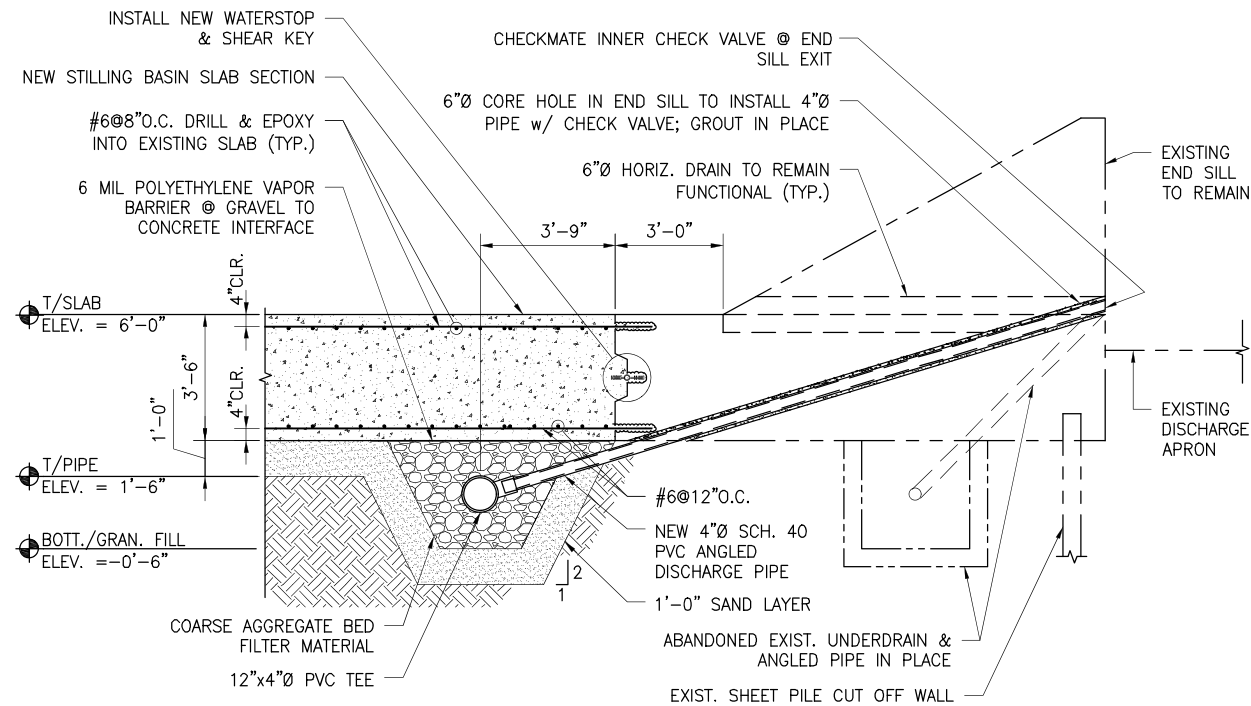
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LAKE MANATEE DAM
MANATEE COUNTY UTILITIES DEPARTMENT
DOWNSTREAM REPAIRS CONSTRUCTION DESIGN
UNDERDRAIN DETAILS - STILLING BASIN
MANATEE COUNTY, FLORIDA

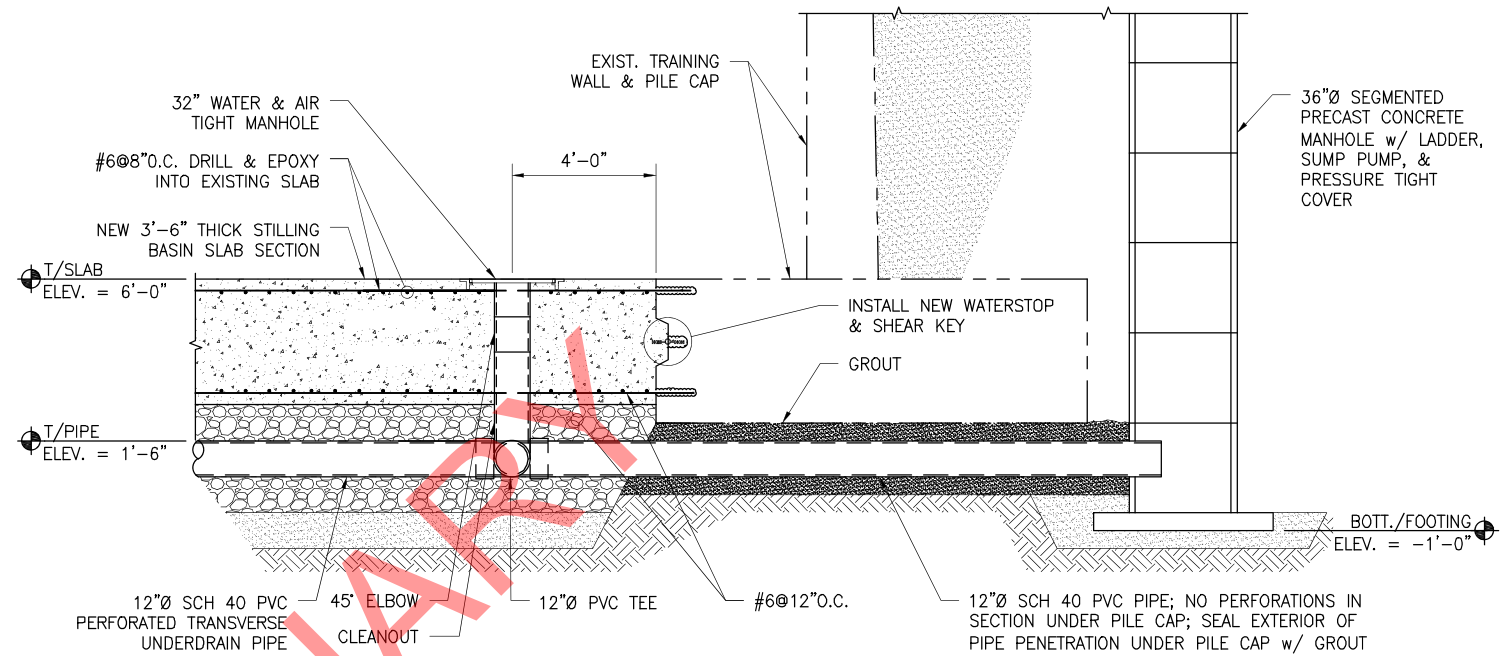
DATE: April 10, 2018
DRAWN BY: J.VINCENT
CHECKED BY: M.LEON
PROJECT NO.: 300472x4

FLA. REG. NO.
DATE:

PROJECT NUMBER: 300472x4 CITY: ATLANTA
J:\300472x4 Lake Manatee Reservoir\CAD\NEW WORKS\Sheets\302.dwg LAYOUT: 304 SAVED: 4/10/2018 11:27 AM PLOTSTYLETABLE: — PLOTTED: 4/10/2018 11:27 AM DRAWN BY: VINCENT, JAMES

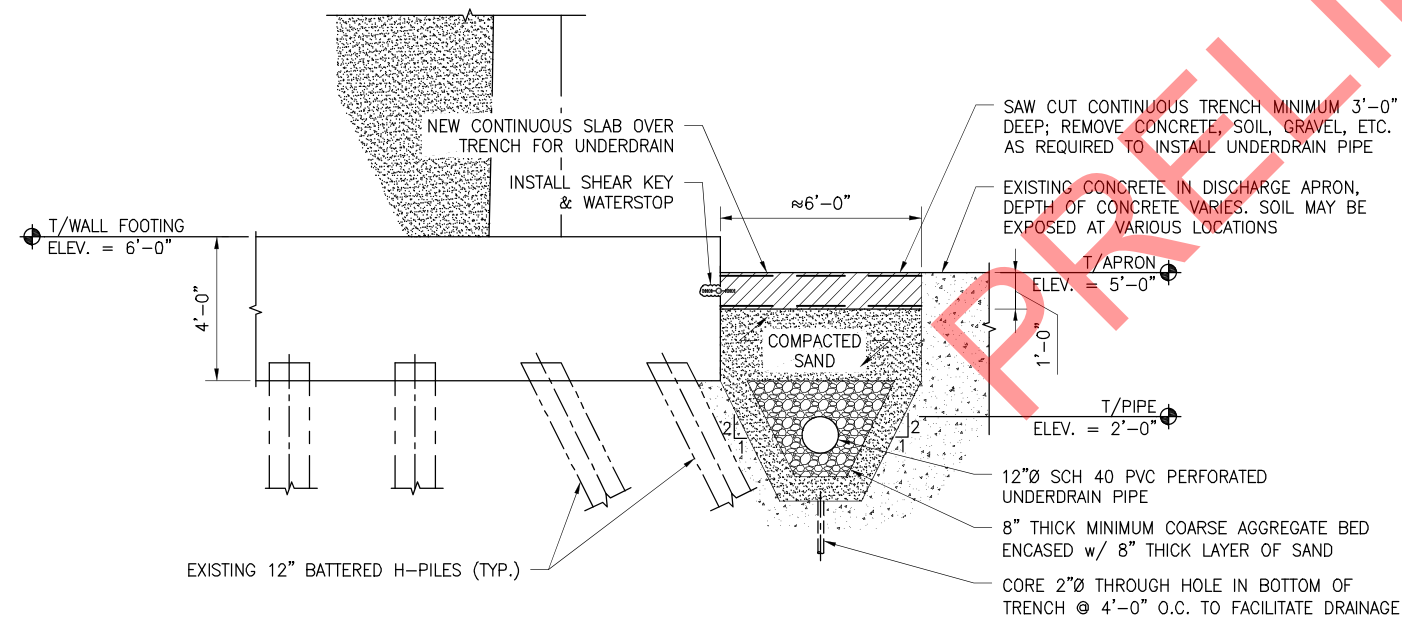


1 SECTION — TYPICAL AT ANGLED DISCHARGE PIPE
SCALE: 3/8" = 1'-0"

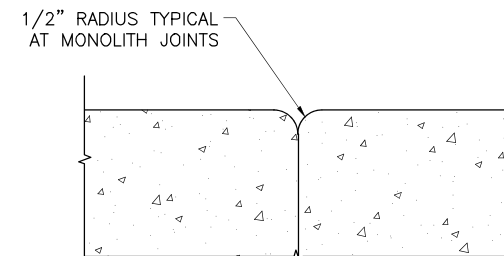


2 TYP. SECTION — TRANSVERSE PIPE
PASSES UNDER TRAINING WALL
SCALE: 3/8" = 1'-0"

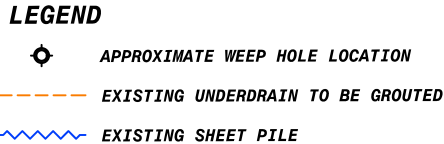
NOTE: EXIST. PILES NOT SHOWN FOR CLARITY.



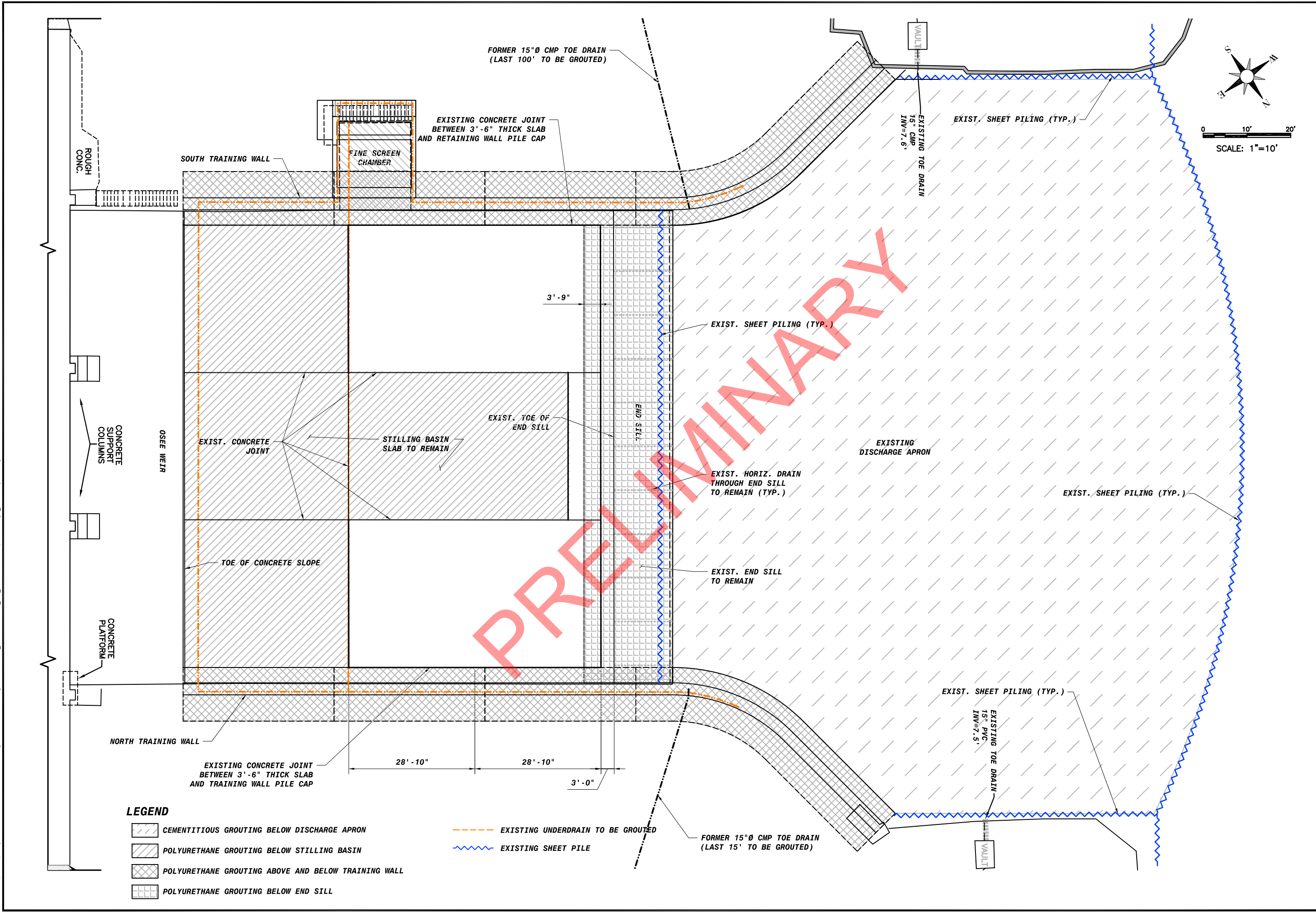
3 SECTION — UNDERDRAIN DISCHARGE APRON
SCALE: 3/8" = 1'-0"



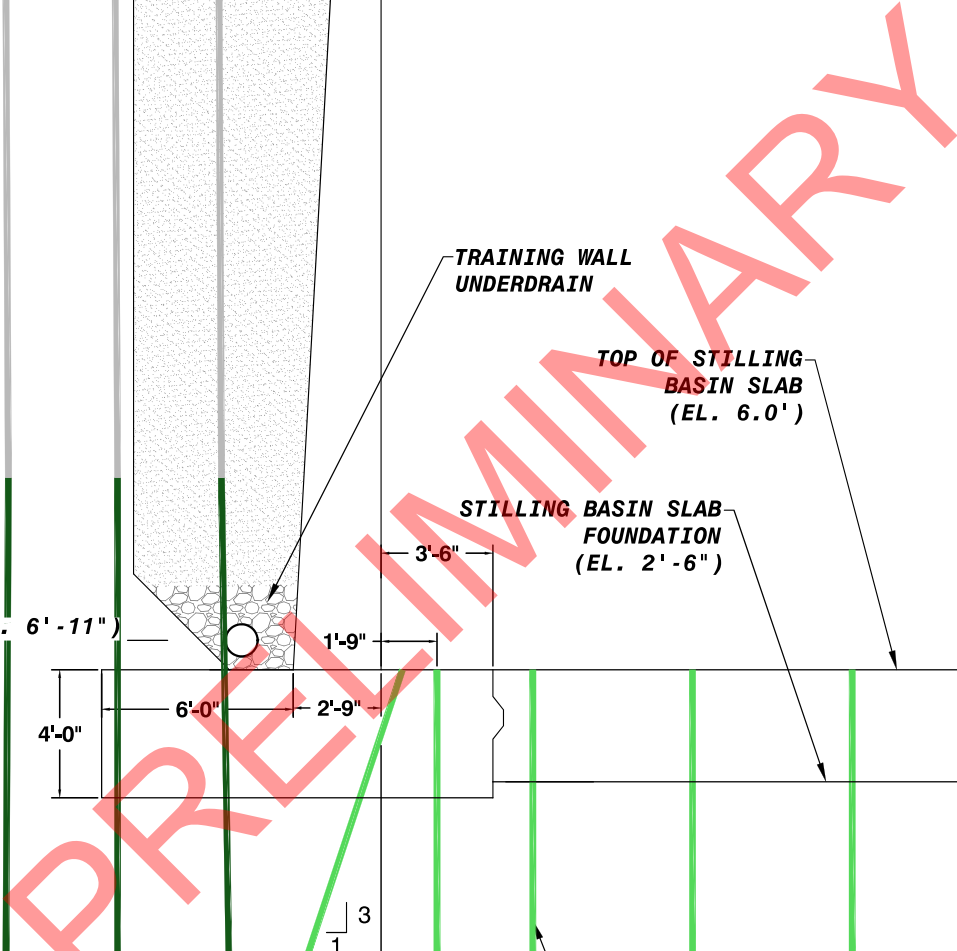
4 JOINT DETAIL
SCALE:



PROJECT NUMBER: 300472x4 CITY: TAMPA
Z:\Geotech (300000)\Projects\300472x4 Lk Manatee\Drawings\Downstream Design\2018\March_2018\300472x4_CD_Downstream Repairs Design_Grout Layout.dwg LAYOUT: SHEET 500
SAVED: 4/9/2018 2:48 PM PLOTSTYLETABLE: CIVIL-MASTER.CTB PLOTTED: 4/10/2018 4:13 PM DRAWN BY: VIVES, MARTIN



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LAKE MANATEE DAM MANATEE COUNTY UTILITIES DEPARTMENT		DOWNSTREAM REPAIRS CONSTRUCTION DESIGN OVERALL GROUTING PROGRAM LAYOUT MANATEE COUNTY, FLORIDA	
DATE: April 9, 2018		DRAWN BY: M.VIVES	
CHECKED BY: T.ANDREY		PROJECT NO.: 300472x4	
SHEET 500		REVISION	



SCALE: 1"=3'

1. ADVANCE GROUTING FROM UPSTREAM TO DOWNSTREAM.
2. COMPLETE ALL GROUTING PRIOR TO UNDERDRAIN CONSTRUCTION.
3. PROVISIONS FOR DEWATERING MUST BE AVAILABLE UNTIL ALL UNDERDRAINS ARE OPERATIONAL.



SHEET 501