

THE CITY OF DAYTONA BEACH

BEACH STREET BACKFLOW PREVENTERS

(BACKFLOW PREVENTER SITES 2-5)

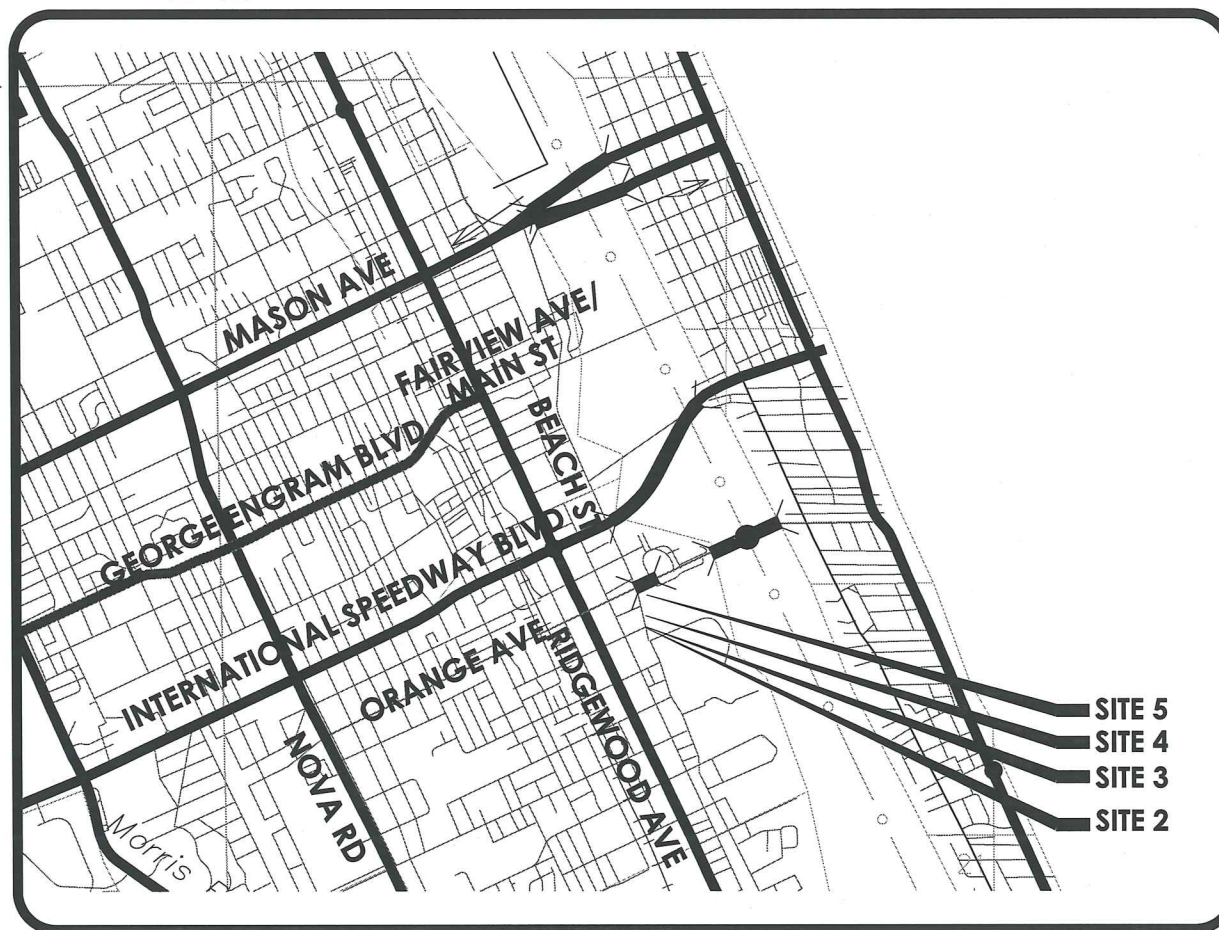


UTILITIES PROJECT NO. 6545-02

R 32 E | R 33 E

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THE CITY OF DAYTONA BEACH
UTILITIES DEPARTMENT
ENGINEERING DIVISION



CITY MANAGER
JAMES CHISHOLM

INTERIM UTILITIES DIRECTOR
JOHN DRAGO

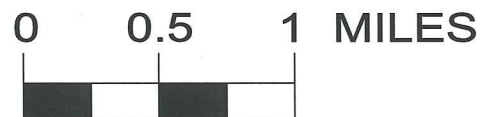


SECTION 8, T 15 S, R 32 E
SECTION 17, T 15 S, R 33 E

NOTE: THE SCALE OF THESE PLANS MAY HAVE CHANGED DUE TO REPRODUCTION

GOVERNING STANDARDS AND SPECIFICATIONS:
CITY OF DAYTONA BEACH UTILITIES DEPARTMENT STANDARD DETAILS, LATEST EDITION
FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2000 EDITION
MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS, LATEST EDITION
FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS, LATEST EDITION

LOCATION MAP



<table border="0"> <tr> <td>Contract No.: 6235-CH WA#2</td> <td>Project No.: 474597</td> <td rowspan="6" style="text-align: center; vertical-align: middle;"> <p>CH2MHILL. 225 EAST ROBINSON STREET, SUITE 505 ORLANDO, FLORIDA 32801 FLORIDA LICENSE NO. 000072 TIMOTHY B. WALSH, P.E. FL. REG. NO. 34933</p> </td> </tr> <tr> <td>Survey Date: XXXXXX</td> <td>Design Date:</td> </tr> <tr> <td>Drawn By:</td> <td>Drawn By:</td> </tr> <tr> <td>Checked By:</td> <td>Checked By:</td> </tr> <tr> <td>File Name: keysrd02.dwg</td> <td></td> </tr> <tr> <td>Rotation: 0</td> <td></td> </tr> </table>		Contract No.: 6235-CH WA#2	Project No.: 474597	<p>CH2MHILL. 225 EAST ROBINSON STREET, SUITE 505 ORLANDO, FLORIDA 32801 FLORIDA LICENSE NO. 000072 TIMOTHY B. WALSH, P.E. FL. REG. NO. 34933</p>	Survey Date: XXXXXX	Design Date:	Drawn By:	Drawn By:	Checked By:	Checked By:	File Name: keysrd02.dwg		Rotation: 0		<p>TIMOTHY B. WALSH, P.E. LIC. NO. 34933</p>	<p>BEACH STREET BACKFLOW PREVENTERS COVER SHEET AND INDEX PROJECT NO 6545-02</p>	<p>1 of 21</p>		
Contract No.: 6235-CH WA#2	Project No.: 474597	<p>CH2MHILL. 225 EAST ROBINSON STREET, SUITE 505 ORLANDO, FLORIDA 32801 FLORIDA LICENSE NO. 000072 TIMOTHY B. WALSH, P.E. FL. REG. NO. 34933</p>																	
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SECTION 1: GARDINER AND
BOWMAN PUMP STATIONS, BP
SITE 1
SECTION 2: BP SITES 2-5
SECTION 3: BP SITES 6-14
SECTION 4: BP SITES 15-26

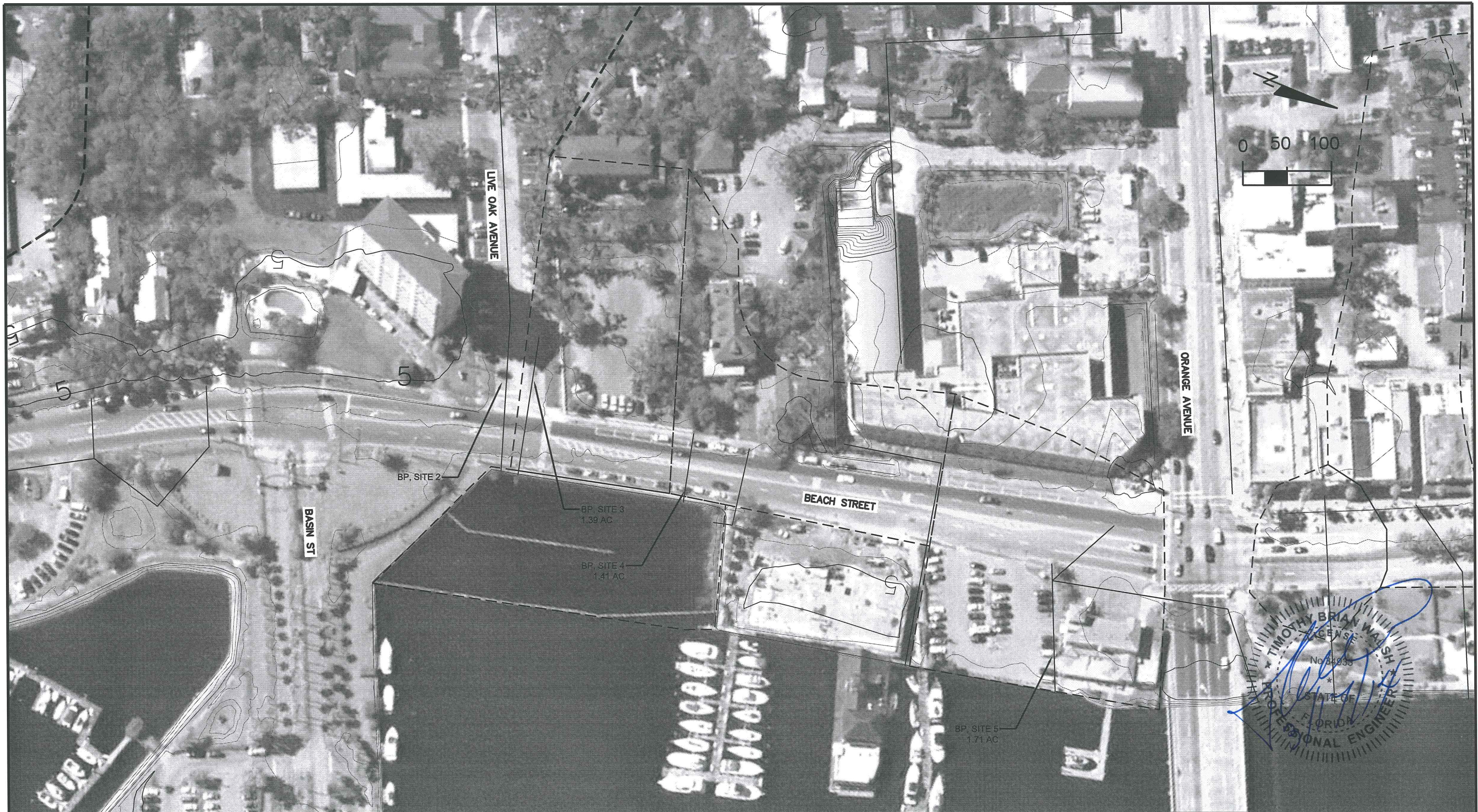
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BEACH STREET BACKFLOW PREVENTERS
OVERALL DRAINAGE MAP
PROJECT NO 6545-02



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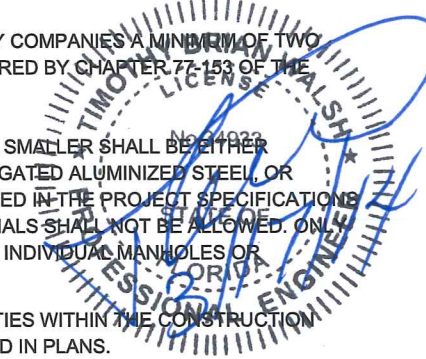
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BEACH STREET BACKFLOW PREVENTERS
SECTION 2 DRAINAGE MAP
PROJECT NO 6545-02

GENERAL NOTES:

1. PRIOR TO BEGINNING GENERAL CONSTRUCTION AND UTILITIES CONSTRUCTION THE CONTRACTOR SHALL REVIEW THE UTILITIES DEPARTMENT STANDARD DETAILS, LATEST EDITION AND TECHNICAL SPECIFICATIONS AND COMPLY WITH THE REQUIREMENTS UNLESS OTHERWISE NOTED IN THE PLANS.
2. ALL STATIONS AND OFFSETS REFER TO CENTERLINE CONSTRUCTION UNLESS OTHERWISE NOTED IN PLANS.
3. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH AND CONFORM TO THE MOST STRINGENT REQUIREMENT OF THE PROJECT SPECIFICATIONS, THE 2000 EDITION OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (FDOT) AND SUPPLEMENTS THERETO, THE LATEST EDITION OF CITY OF DAYTONA BEACH SPECIFICATIONS FOR STREET, DRAINAGE AND UTILITY CONSTRUCTION, AND THE FDOT UTILITY ACCOMODATION MANUAL.
4. HORIZONTAL GEOMETRY IS BASED UPON STATE PLANE COORDINATE SYSTEM. VERTICAL ELEVATION DATUM GEOMETRY IS BASED UPON NAVD 88.
5. ANY U.S.C. AND G.S. MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED. IF IN DANGER OF DAMAGE, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER, AND BOTH SHALL NOTIFY:
STATE GEODETIC ADVISOR, DAVID NEWCOMER OR RANDY WEGNER
SUITE 309
3900 COMMONWEALTH BOULEVARD
TALLAHASSEE, FL
(850) 245-2606
6. ALL (P.R.M.'s) IRONS AND MONUMENTS SHOWN ON PLANS, OR FOUND, SHALL BE PRESERVED. THOSE SHOWN IN PROPOSED PAVEMENT SHALL BE PROTECTED WITH A CAST IRON VALVE BOX.
7. PUBLIC LAND CORNERS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED OR DISTURBED, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER AND THE CITY SURVEYOR, WITHOUT DELAY, BY TELEPHONE. THE CONTRACTOR SHALL PROVIDE WRITTEN FOLLOW UP CONFIRMATION WITHIN 48 HOURS OF TELEPHONE NOTIFICATION.
8. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO THE CITY OF DAYTONA BEACH UTILITY DEPARTMENT A SET OF FIELD NOTES VERIFYING THE BENCHMARK ELEVATIONS AND THE REFERENCE POINT TIES SHOWN ON THE TITLE SHEET AND PLAN AND PROFILE SHEETS AND/OR A SET OF FIELD NOTES FOR ALL ADDITIONAL BENCHMARK AND REFERENCE POINT TIES PROPOSED TO BE USED IN CONSTRUCTING THE PROJECT WITH THEIR LOCATION, DESCRIPTION AND ELEVATION, BASED UPON STATE PLANE COORDINATES AND NAVD 88 DATUM. ALL SUBMITTALS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA.
9. WITHIN 21 CALENDAR DAYS AFTER THE NOTICE TO PROCEED, THE CONTRACTOR SHALL STAKE THE RIGHT-OF-WAY AND CONSTRUCTION EASEMENTS AT 50 FOOT INTERVALS AND AT RIGHT-OF-WAY OR CONSTRUCTION EASEMENT BREAKS WITH STATIONING SHOWN ON THE STAKES. NO INVOICE FOR PAYMENT WILL BE PROCESSED UNTIL THE RIGHT-OF-WAY HAS BEEN STAKED TO THE SATISFACTION OF THE ENGINEER. PAYMENT IS INCLUDED IN THE LUMP SUM ITEM BID PRICE.
10. THE MAINTENANCE OF TRAFFIC SHOWN ON THESE PLANS IS ONE METHOD OF CONSTRUCTION THAT HAS BEEN DETERMINED TO BE CONSTRUCTIBLE AND HAS BEEN DETERMINED AS ACCEPTABLE BY THE CITY OF DAYTONA BEACH AND FDOT. THE MAINTENANCE OF TRAFFIC PLAN PROVIDED ON THESE PLANS IS NOT INTENDED TO RESTRICT THE SELECTED CONTRACTOR'S MEANS AND METHODS OF CONSTRUCTION.
11. WITHIN 14 CALENDAR DAYS OF THE NOTICE TO PROCEED, THE CONTRACTOR SHALL SUBMIT FOR APPROVAL TO THE CITY HIS OWN MAINTENANCE OF TRAFFIC PLANS BASED UPON HIS INTENDED MEANS AND METHODS OF CONSTRUCTION. THAT PLAN SHALL BE PREPARED IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND FDOT INDEX SERIES 600, LATEST EDITION AND SUPPLEMENTS, THERETO. THE MAINTENANCE OF TRAFFIC PLAN SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA AND QUALIFIED TO PREPARE SUCH PLANS. NO CONSTRUCTION TIME EXTENSION OR ADDITIONAL COMPENSATION FOR THIS ALTERNATE MAINTENANCE OF CONSTRUCTION SHALL BE PROVIDED ABOVE THE BID PRICE FOR EITHER THE TIME REQUIRED TO OBTAIN CITY AND FDOT APPROVAL AND/OR MEANS AND METHODS OF CONSTRUCTION.
12. THE CONTRACTOR MAY ELECT TO UTILIZE THE MAINTENANCE OF TRAFFIC AS SHOWN ON THESE PLANS. HOWEVER, IF HE SO CHOOSES, HE SHALL NOTIFY THE ENGINEER IN WRITING WITHIN 14 CALENDAR DAYS OF THE NOTICE TO PROCEED. SHOULD THE CONTRACTOR ELECT TO USE ANY OR ALL PORTIONS OF THE MAINTENANCE OF TRAFFIC PLAN PROVIDED ON THESE PLANS, THAT ELECTION SHALL NOT BECOME A BASIS FOR CLAIM FOR ADDITIONAL CONSTRUCTION TIME OR COMPENSATION.
13. SUBSURFACE INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FOR USE IN ESTABLISHING DESIGN CRITERIA FOR THE PROJECT. THE ACCURACY OF THIS INFORMATION IS NOT GUARANTEED AND IS NOT TO BE CONSTRUED AS PART OF THE PLANS GOVERNING CONSTRUCTION OF THE PROJECT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INQUIRE OF THE ENGINEER IF ADDITIONAL INFORMATION IS AVAILABLE, TO MAKE ARRANGEMENTS TO REVIEW SAME PRIOR TO BIDDING, AND TO MAKE HIS OWN DETERMINATION AS TO ALL SUBSURFACE CONDITIONS.
14. ALL PERSONAL PROPERTY, EXCEPT MAIL BOXES, WITHIN THE RIGHT-OF-WAY NOT RELOCATED BY THE PROPERTY OWNER SHALL BE REMOVED BY THE CONTRACTOR AS NECESSARY TO CONSTRUCT THE PROJECT IN ACCORDANCE WITH THE PLANS. MAILBOXES SHALL BE RELOCATED BY THE CONTRACTOR IN ACCORDANCE WITH FDOT DESIGN STANDARD 532. PAYMENT WILL BE INCLUDED IN THE LUMP SUM PRICE.
15. THE DISPOSAL OF EXCESS EARTHWORK MATERIALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. APPROVALS OF DISPOSAL SITES SHALL BE OBTAINED FROM THE CITY OF DAYTONA BEACH PRIOR TO DISPOSAL. ALL EXCESS MATERIAL IS THE PROPERTY OF THE CONTRACTOR EXCEPT AS NOTED IN NOTE 46.
16. ALL EXISTING TREES WITHIN THE RIGHT-OF-WAY SHALL BE PROTECTED UNLESS OTHERWISE DIRECTED. PRIOR TO CONSTRUCTION, CONTRACTOR AND CITY STAFF SHALL CONDUCT A WALK THROUGH AND IDENTIFY WHICH TREES ARE TO BE EITHER REMOVED OR CUT BACK (PRUNED/TRIMMED) AND MEANS AND METHODS OF TREE REMOVAL AND/OR PRUNING/TRIMMING. PARTICULAR ATTENTION WILL BE PAID TO PROTECTION OF EXISTING ROOT SYSTEM OF TREES TO REMAIN.
17. SOD ALL DISTURBED AREAS UNLESS OTHERWISE DIRECTED. SOD SHALL MATCH EXISTING TYPE OF SOD UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
18. SOD ALL SLOPES 1:3 OR STEEPER.
19. SAWCUT CONCRETE DRIVEWAYS AS REQUIRED FOR CONSTRUCTION.
20. DRIVEWAY LOCATIONS AND WIDTHS SHOWN ARE APPROXIMATE AND MAY BE ADJUSTED AS NECESSARY AS DIRECTED BY THE ENGINEER.
21. EXISTING DRIVEWAYS WITHIN THE LIMITS OF THIS PROJECT ARE TO BE REPLACED AT THE SAME LOCATION AND WIDTH WITH THE SAME TYPE OF MATERIAL, UNLESS OTHERWISE SHOWN IN THE PLANS.
22. THE CONTRACTOR SHALL REPLACE ANY SIDEWALK DAMAGED DURING CONSTRUCTION WITH 6" THICK CONCRETE. THE CONCRETE USED SHALL BE PORTLAND CEMENT, CLASS NS (FDOT SPECIFICATION 347) AND SHALL ACHEIVE THE THE MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 2500 PSI (FDOT SPECIFICATION 347-4.2).
23. THE CONTRACTOR SHALL PERFORM HIS WORK IN ACCORDANCE WITH REQUIREMENTS OF THE VARIOUS PERMITS INCLUDED IN THE BID SPECIFICATIONS. PAYMENT IS INCLUDED IN THE BID PRICE FOR SECTION 01501 ENVIRONMENTAL PROTECTION.
24. **THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING THE TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS BASED ON AVAILABLE RECORDS AND SURVEYS BUT IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR SHALL MAKE HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO AND IS RESPONSIBLE FOR COORDINATING UTILITY RELOCATION WITH PROJECT CONSTRUCTION. PRIOR TO ORDERING DRAINAGE STRUCTURES, THE CONTRACTOR SHALL DETERMINE IF DRAINAGE/UTILITY CONFLICTS EXIST. INFORMATION ON CONFLICTS IS TO BE SUBMITTED TO THE ENGINEER AS SOON AS POSSIBLE AFTER DISCOVERY FOR RESOLUTION.**
25. UTILITIES, OTHER THAN CITY OF DAYTONA BEACH POTABLE WATER, SANITARY SEWER OR RECLAIMED WATER, ARE TO BE ADJUSTED BY OTHERS.
26. ALL WORK PERFORMED ON ANY UTILITY SYSTEM OR SYSTEM COMPONENT THAT IS OWNED OR PROPOSED TO BE OWNED BY THE CITY SHALL BE PERFORMED BY AN EXPERIENCED UNDERGROUND UTILITY CONTRACTOR LICENSED IN THE STATE OF FLORIDA AND REGISTERED WITH THE CITY.
27. LIST OF UTILITY OWNERS AND CONTACT INFORMATION:

A. POTABLE WATER, SANITARY SEWER AND RECLAIMED WATER CITY OF DAYTONA BEACH 125 BASIN STREET, SUITE 100 DAYTONA BEACH, FL 32114 ATTN: MR. ROBERT PREIS PHONE: 386-679-5936	D. ELECTRIC DISTRIBUTION FLORIDA POWER & LIGHT 35910 E HIGHWAY 100 PALM COAST, FL 32164 ATTN: ROB HELFER PHONE: 386-586-6432
B. TELEPHONE AT&T 900 NORTH NOVA ROAD DAYTONA BEACH, FL 32117 ATTN: NATASHA ROBERSON PHONE: 386-252-0662	E. CABLE TV BRIGHHOUSE NETWORKS 211 ST JOE PLAZA DR PALM COAST, FL 32164 ATTN: RANDALL BOUNDS PHONE: 386-775-4444 EXT, 7613
C. GAS DISTRIBUTION TECO GAS 1722 RIDGEWOOD AVENUE HOLLY HILL, FL 32117 ATTN: MR. GEORGE SMITH 386-671-2232	F. ELECTRIC TRANSMISSION FLORIDA POWER & LIGHT 700 UNIVERSE BLVD TS4/ JW JUNO BEACH, FL 33408 ATTN: PETER WASHIO 561-904-3693
28. THE CONTRACTOR SHALL NOTIFY ALL GAS UTILITY COMPANIES A MINIMUM OF TWO WORKING DAYS PRIOR TO EXCAVATION AS REQUIRED BY CHAPTER 77-153 OF THE FLORIDA STATUTES.
29. ALL DRAINAGE PIPES 12" INCHES IN DIAMETER OR SMALLER SHALL BE EITHER REINFORCED CONCRETE (RCP), CLASS III, CORRUGATED ALUMINIZED STEEL, OR HIGH DENSITY POLYETHYLENE (HDPE) AS SPECIFIED IN THE PROJECT SPECIFICATIONS AND AS APPROVED BY FDOT. ALTERNATE MATERIALS SHALL NOT BE ALLOWED. ONLY ONE TYPE OF PIPE SHALL BE ALLOWED BETWEEN INDIVIDUAL MANHOLES OR DRAINAGE STRUCTURES.
30. ALL EXISTING DRAINAGE STRUCTURES AND UTILITIES WITHIN THE CONSTRUCTION LIMITS SHALL REMAIN, UNLESS OTHERWISE NOTED IN PLANS.
31. ALL STORM SEWER LINES AND INLETS SHALL BE CLEANED OF DEBRIS AND ERODED MATERIALS AT LAST STAGES OF CONSTRUCTION.



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FLORIDA LICENSE NO. 000072
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BEACH STREET BACKFLOW PREVENTERS
GENERAL NOTES
PROJECT NO 6545-02

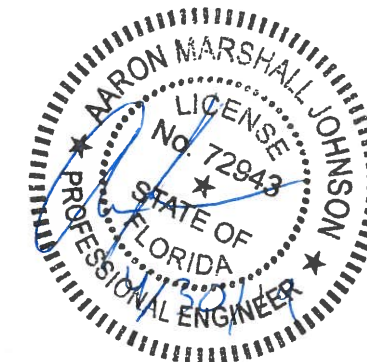
32. ANY DRAINAGE PROBLEMS CREATED BY CONSTRUCTION, OR EXISTING BEFORE CONSTRUCTION AND NOT ALLEVIATED, SHOULD BE BROUGHT TO THE ATTENTION OF THE CITY OF DAYTONA BEACH UTILITIES ENGINEERING DEPARTMENT AT THE TIME OF DISCOVERY.
33. MEASUREMENT OF DRAINAGE PIPE FOR PAYMENT SHALL BE DETERMINED FROM ACTUAL LENGTHS INSTALLED.
34. ALL MANHOLE COVERS SHALL BE IDENTIFIED AS "SANITARY", "STORM", "POTABLE WATER", OR "RECLAIMED WATER".
35. ALL CURB INLETS, DITCH BOTTOM INLETS AND MANHOLES SHALL HAVE TRAFFIC BEARING FRAMES AND COVERS OR GRATES MEETING HS-20 LOADING REQUIREMENTS.
36. CHANGES OF PIPE INVERTS NOT EXCEEDING PLUS OR MINUS 1 FOOT WILL NOT BE CONSIDERED AS A BASIS FOR ADDITIONAL COMPENSATION FOR THE PERTINENT PIPE BID ITEM OR FOR MODIFICATION OF PRECAST STRUCTURES.
37. TRAFFIC SIGNS-REMOVAL AND RELOCATION WILL BE PROVIDED BY CONTRACTOR AS DIRECTED BY THE ENGINEER.
38. ALL DISPLACED SIGNS SHALL BE RELOCATED IN EQUAL OR BETTER THAN PRE-CONSTRUCTION CONDITION AT THEIR EXISTING STATION ACCORDING TO FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS (LATEST EDITION) UNLESS OTHERWISE NOTED IN THE PLANS.
39. SIGNS THAT ARE REMOVED AND ARE TO BE RELOCATED SHALL BE STOCKPILED BY THE CONTRACTOR. ANY EXISTING SIGNS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR AT HIS COST.
40. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS AS WELL AS THE REQUIREMENTS OF ST. JOHNS RIVER WATER MANAGEMENT DISTRICT AND E.P.A. (NPDES), CONTRACTOR SHALL ESTABLISH BEST MANAGEMENT PRACTICES AND EROSION CONTROL METHODS PRIOR TO COMMENCING ANY SITE CLEARING OR DEMOLITION AND SHALL MAINTAIN THOSE BARRIERS UNTIL FINAL ACCEPTANCE OF THE PROJECT.
41. THE EROSION, SEDIMENT, AND TURBIDITY CONTROL MEASURES DELINEATED HERON ARE THE MINIMUM REQUIRED. ADDITIONAL CONTROLS MAY BE NEEDED, DEPENDING UPON THE ACTUAL SITE CONDITIONS, JURISDICTIONAL AGENCY PERMIT REQUIREMENTS AND CONSTRUCTION OPERATIONS. SEDIMENT CONTROL BARRIER SHALL BE UTILIZED TO CONTROL EROSION AND RELEASE OF SUSPENDED SOLIDS AND SEDIMENT TRACKING CONTROL DEVICES SHALL BE USED TO PREVENT THE OFFSITE TRANSPORT OF SEDIMENT BY MOTORIZED VEHICLES. IF CONTROL MEASURES DO NOT PROVE SATISFACTORY, WORK SHALL CEASE UNTIL NEW MEASURES ARE ADOPTED WITH SATISFACTORY RESULTS.
42. NONE OF THE EXISTING LIMEROCK BASE THAT IS REMOVED IS TO BE USED IN THE CONSTRUCTION OF THE NEW LIMEROCK BASE UNLESS OTHERWISE NOTED ON PLANS, AS PER FDOT SPECIFICATION 200-2.
43. FOR STABILIZING AT INTERSECTIONS, TURNOUTS, AND GRADED CONNECTIONS SEE STANDARD INDEX NO. 515.
44. SPECIAL ATTENTION IS DIRECTED TO THE FACT THAT PORTIONS OF SOME OF THE DRAINAGE STRUCTURES EXTEND INTO THE STABILIZED PORTION AND/ OR BASE OF THE ROADBED AND EXTREME CAUTION WILL BE NECESSARY IN STABILIZATION IN THESE LOCATIONS.
45. ALL UNSUITABLE SOILS AND UNSUITABLE MATERIALS (SUCH AS CLAY, ORGANICS, DEBRIS, ETC...) SHALL BE REMOVED, DISPOSED OF AND REPLACED WITH DRY COMPACTED GRANULAR MATERIAL SATISFACTORY TO THE CITY. THE COST IS INCLUDED IN THE LUMP SUM ITEM BID PRICE.
46. UNSUITABLE SOILS CONSISTING OF ROCK OR CEMENTED COQUINA SHALL BE THE PROPERTY OF THE CITY. CONTRACTOR SHALL REMOVE, STOCKPILE FOR CITY PICK UP, AND REPLACE WITH DRY COMPACTED GRANULAR MATERIAL, SATISFACTORY TO THE CITY.

BASIS OF PAY ITEMS

1. THE BASIS OF PAYMENT FOR THIS WORK SHALL BE A LUMP SUM PAYMENT FOR THE INSTALLATION OF THE BACKFLOW PREVENTER AT EACH OF THE LOCATIONS.
2. THE LUMP SUM PRICE INCLUDES ALL LABOR, MATERIAL AND EQUIPMENT NECESSARY TO COMPLETELY CONSTRUCT AND RESTORE THE WORK AREA TO ITS ORIGINAL OR IMPROVED CONDITION AS SHOWN ON THE PLANS AND/OR AS INTERPRETED AS THE DESIGN INTENT BY THE ENGINEER.
3. ALL MOBILIZATION, CLEARING, EROSION CONTROL, MAINTENANCE OF TRAFFIC, ROADWAY IMPROVEMENT, SITE IMPROVEMENT AND RESTORATION, DEWATERING, TESTING CERTIFICATION, PROJECT CLEANUP AND CLOSEOUT ARE CONSIDERED INCIDENTAL TO THE CONSTRUCTION AND ARE INCLUDED IN THE LUMP SUM PRICE.
4. THE LUMP SUM PRICE SHALL INCLUDE PAVEMENT, SIDEWALK AND CURB RESTORATION BASED UPON THE QUANTITIES LISTED IN THE FOLLOWING TABLE

SITE	BASE REPAIR SY	ASPHALT REPAIR SY	SIDEWALK & CURB REPAIR SY
2	50	70	0
3	10	15	0
4	20	30	100
5	30	40	0
5. AS-BUILTS SHALL BE INCLUDED IN LUMP SUM PRICE AND PREPARED AS PER CITY OF DAYTONA BEACH STANDARD DETAILS (LATEST VERSION).
6. ALL REQUIRED PERMITS ARE INCLUDED IN THE LUMP SUM PRICE, INCLUDING BUT NOT LIMITED TO FDEP DEWATERING PERMIT, CITY OF DAYTONA BEACH BUILDING PERMIT, NPDES, ETC. AND ALL LOCAL, STATE AND FEDERAL PERMITS.
7. CONTRACTOR MAY NOT WORK DURING SPECIAL EVENTS AND NO WORK DAYS WILL BE CHARGED NOR WILL ANY DELAY CLAIMS BE ALLOWED DURING DOWNTIME FOR EVENTS.

PAY ITEM	DESCRIPTION	UNIT	QUANTITY
1	SITE 2 BACKFLOW PREVENTER	LS	1
2	SITE 3 BACKFLOW PREVENTER	LS	1
3	SITE 4 BACKFLOW PREVENTER	LS	1
4	SITE 5 BACKFLOW PREVENTER	LS	1

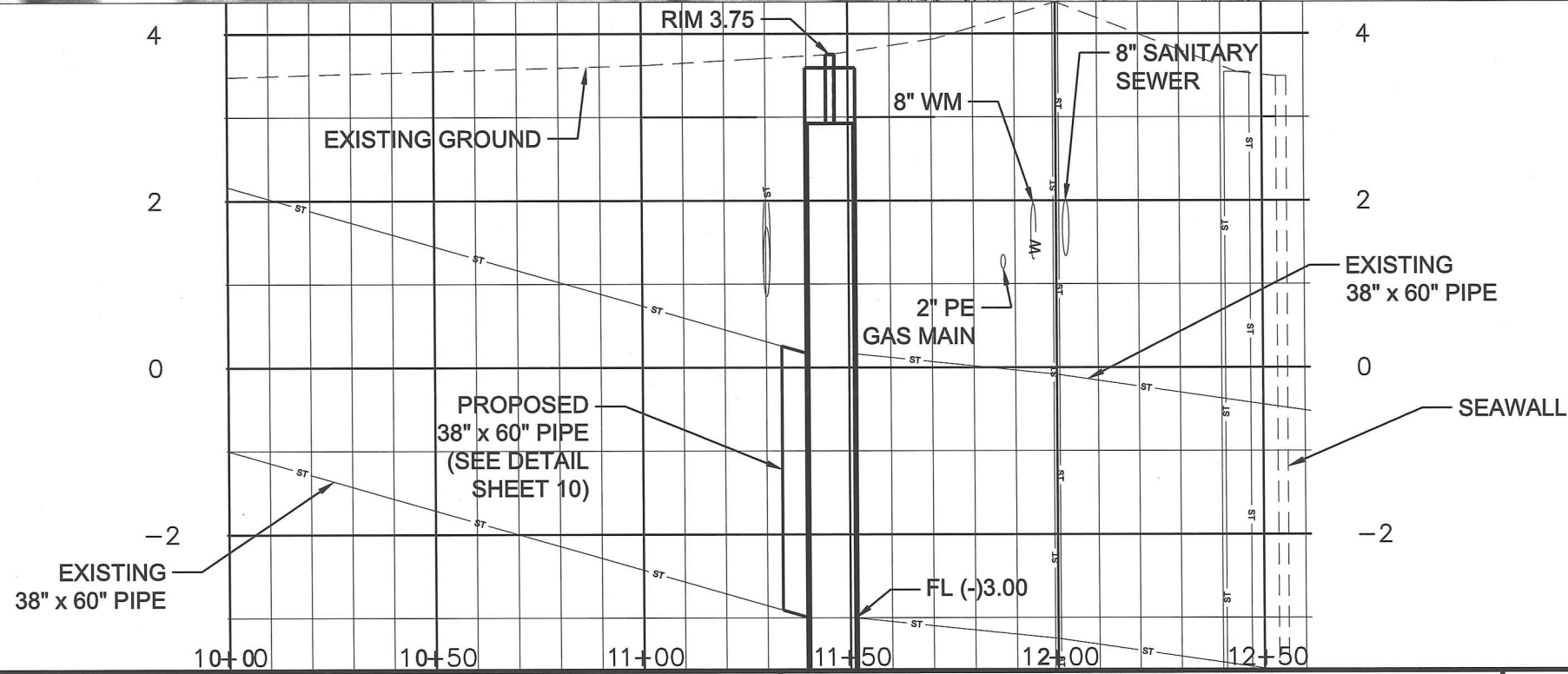
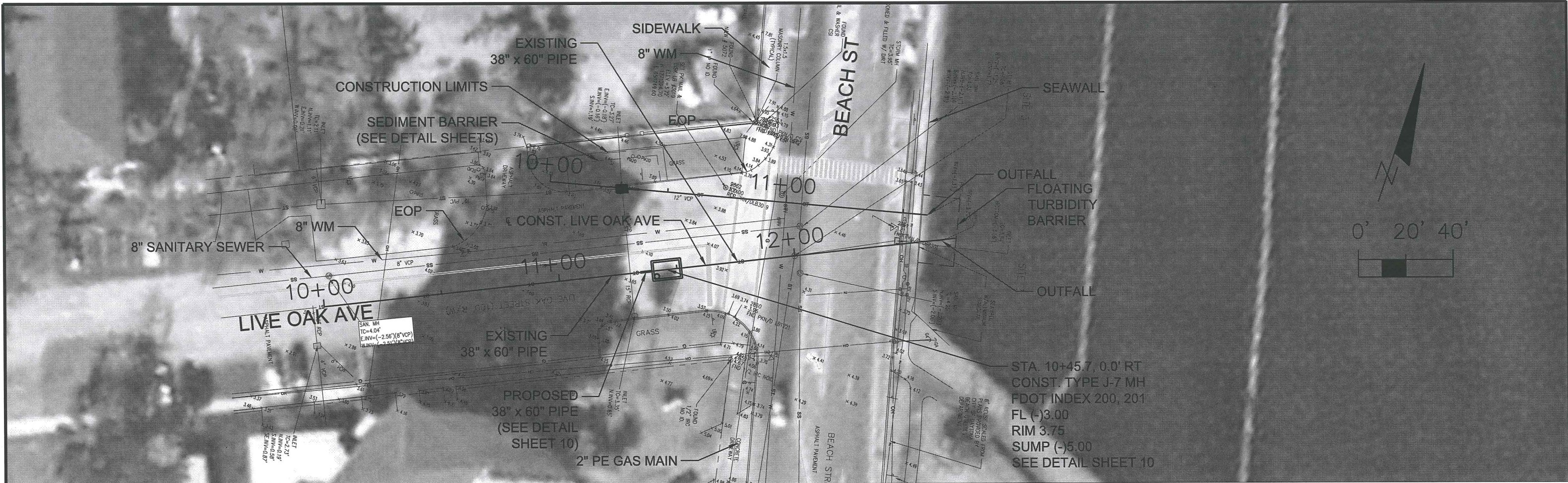


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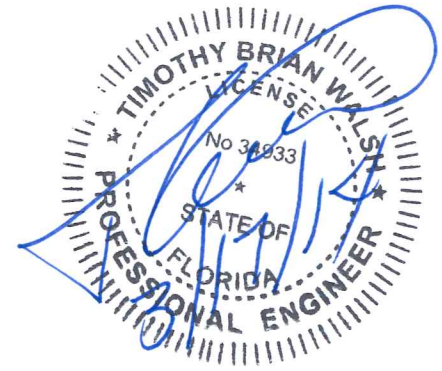
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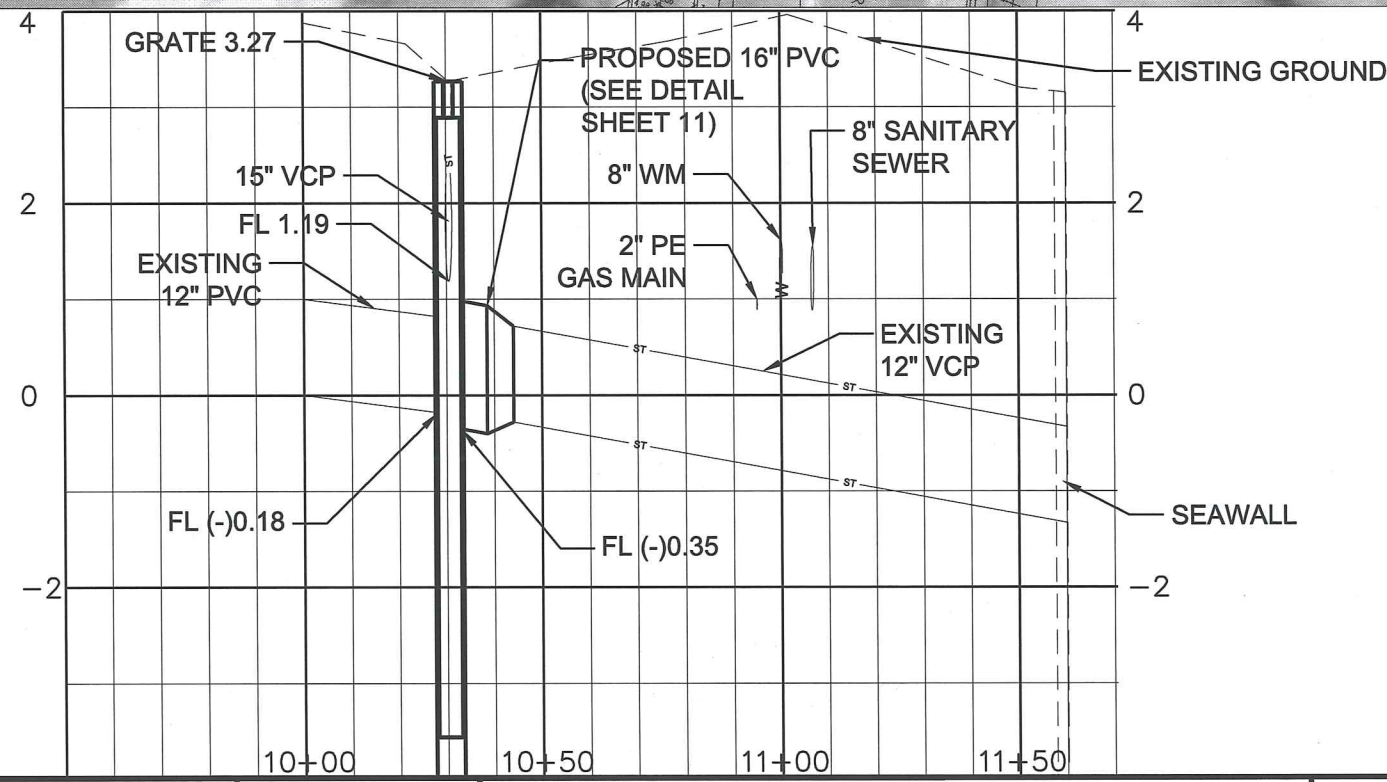
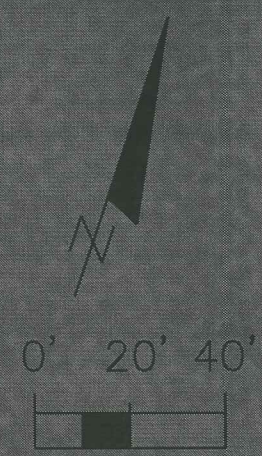
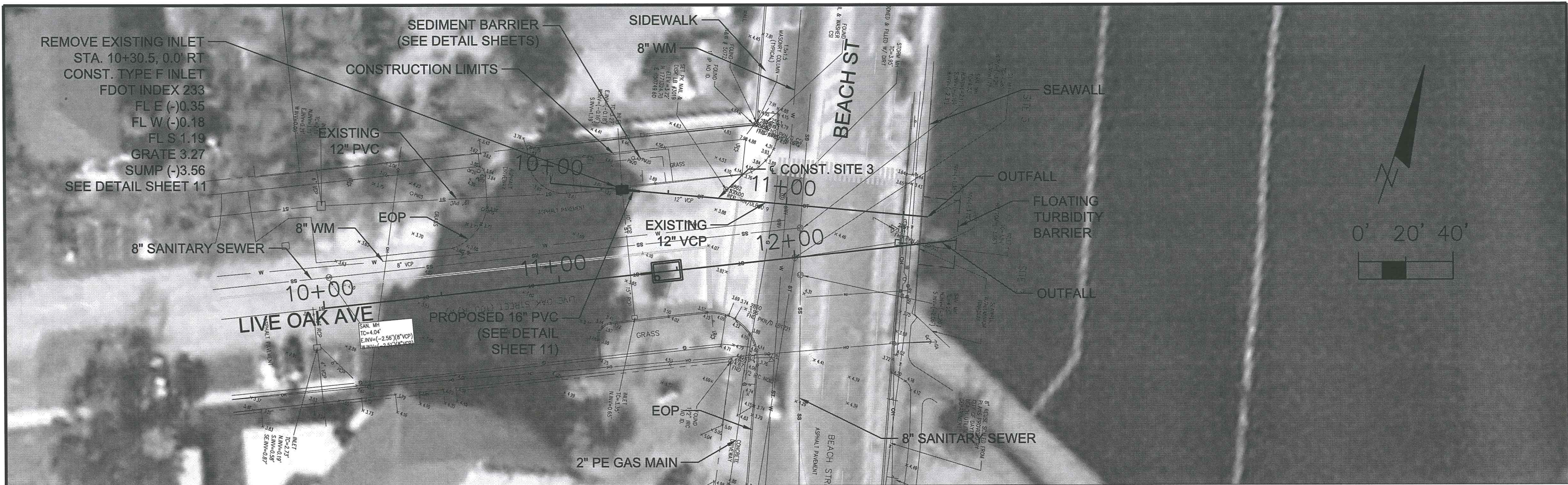
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Contract No.: 6235-CH WA#2	Project No.: 474597
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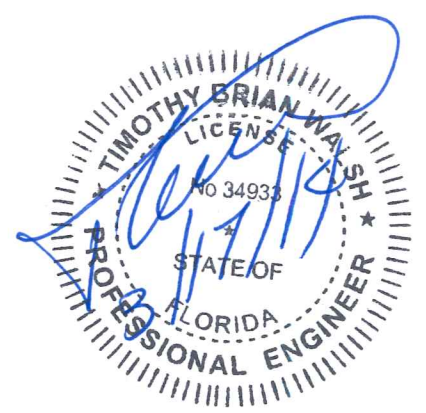
CH2MHILL.
 225 EAST ROBINSON STREET, SUITE 505
 ORLANDO, FLORIDA 32801
 FLORIDA LICENSE NO. 000072
 TIMOTHY B. WALSH, P.E. FL. REG. NO. 34933

BEACH STREET BACKFLOW PREVENTERS
 BACKFLOW PREVENTERS, SITE 2
 PROJECT NO 6545-02



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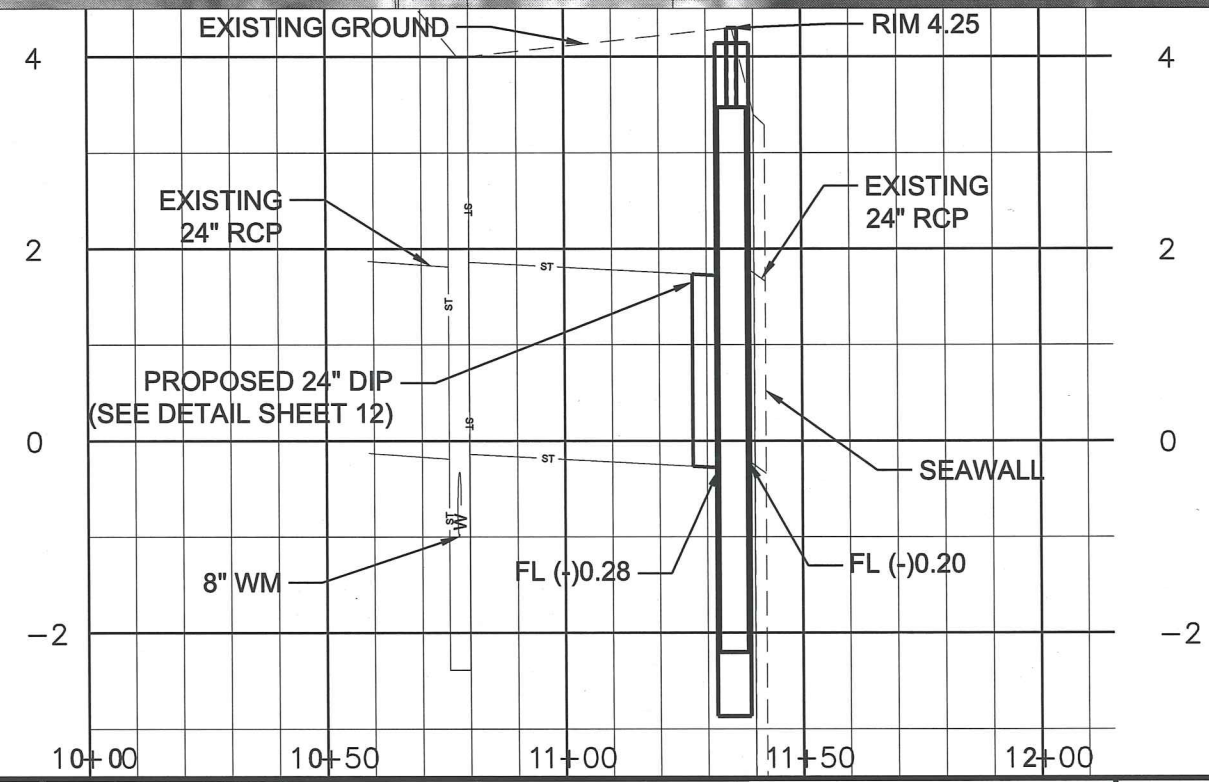
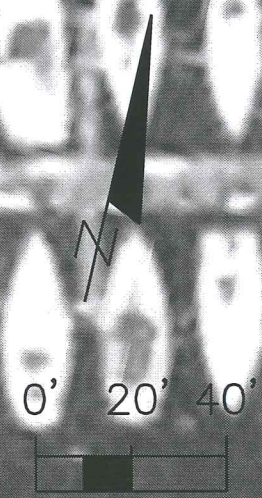
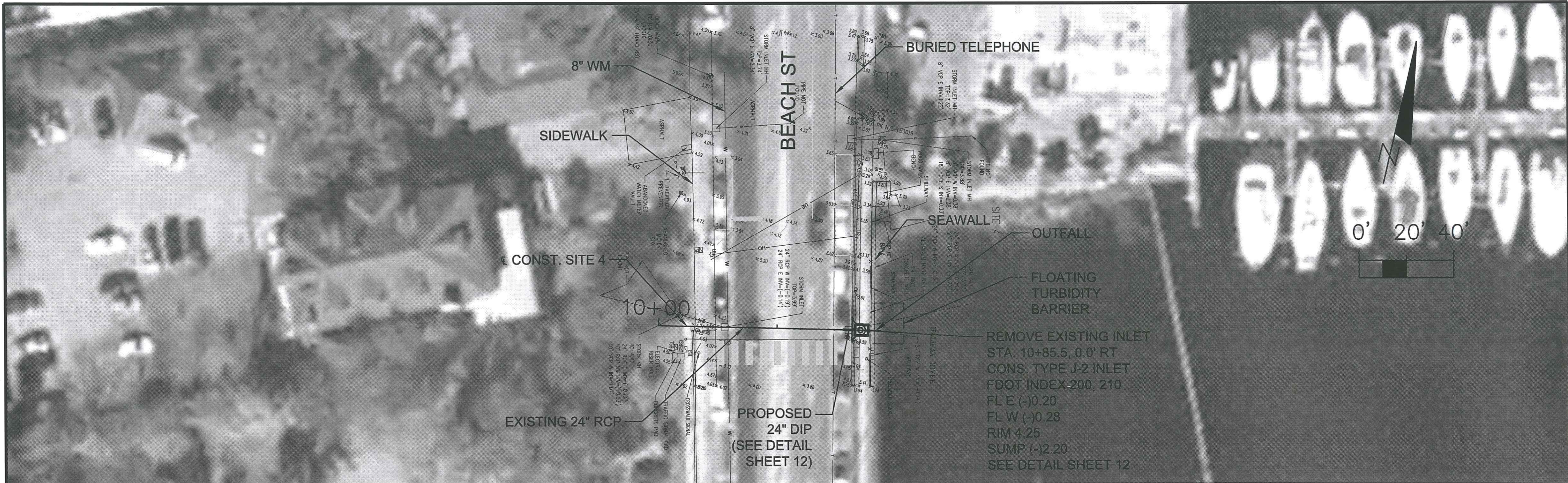
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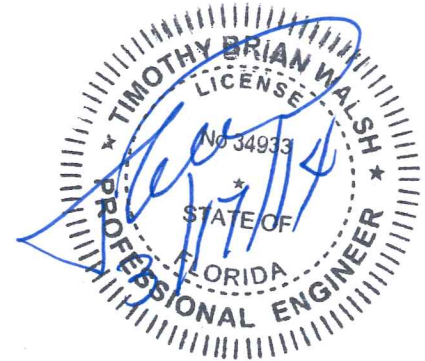
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 ORLANDO, FLORIDA 32801
 FLORIDA LICENSE NO. 000072
 TIMOTHY B. WALSH, P.E. FL. REG. NO. 34933

BEACH STREET BACKFLOW PREVENTERS
 BACKFLOW PREVENTERS, SITE 3
 PROJECT NO 6545-02



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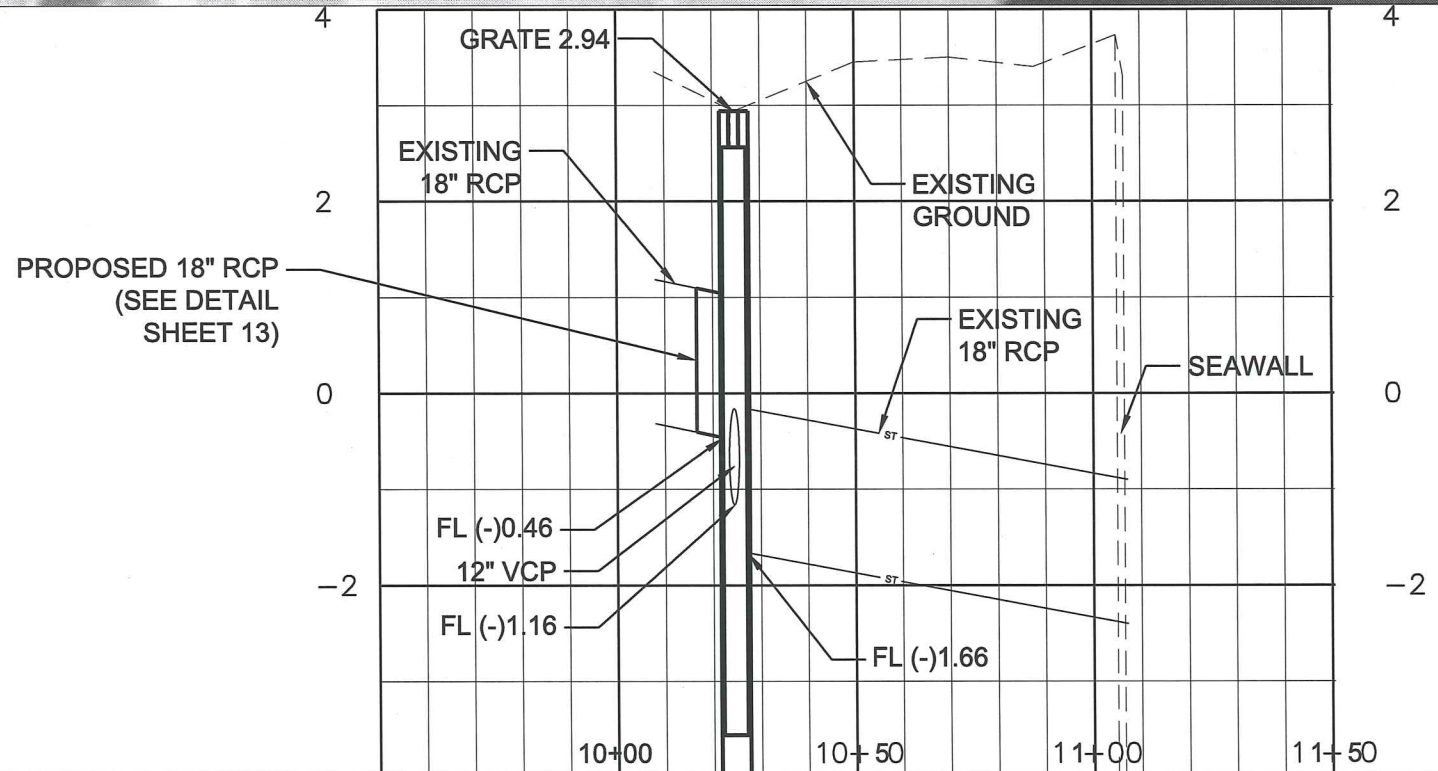
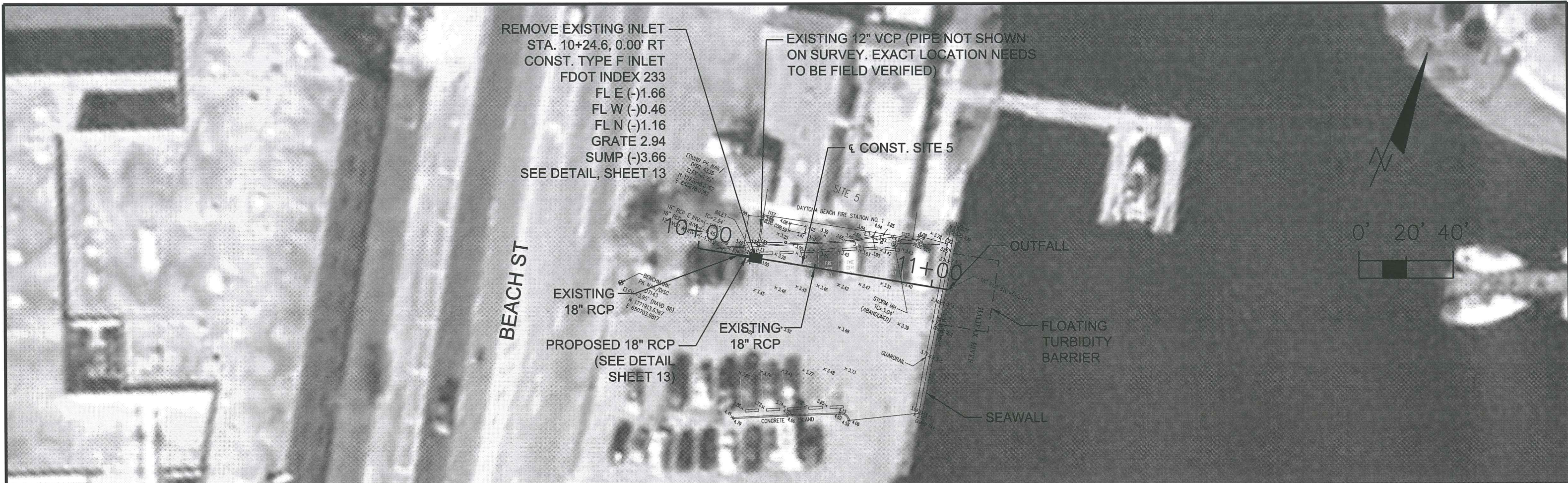
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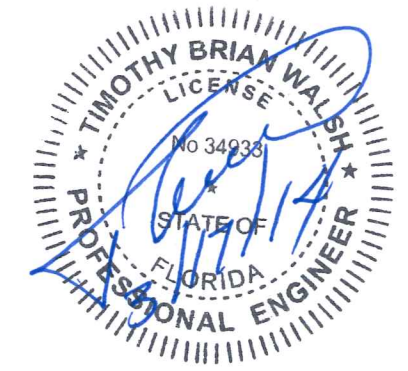
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 225 EAST ROBINSON STREET, SUITE 505
 ORLANDO, FLORIDA 32801
 FLORIDA LICENSE NO. 000072
 TIMOTHY B. WALSH, P.E. FL. REG. NO. 34933

BEACH STREET BACKFLOW PREVENTERS
 BACKFLOW PREVENTERS, SITE 4
 PROJECT NO 6545-02



VERTICAL
SCALE: 1"=2'

HORIZONTAL
SCALE: 1"=40'



Contract No.: 6235-CH WA#2	Project No.: 474597
Survey Date: XXXXXX	Design Date:
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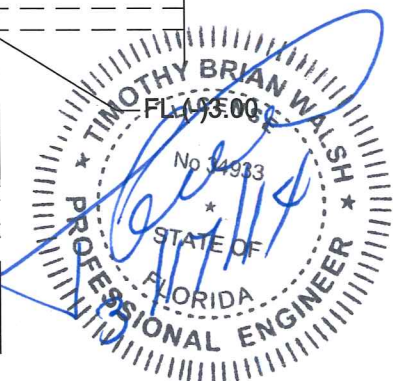
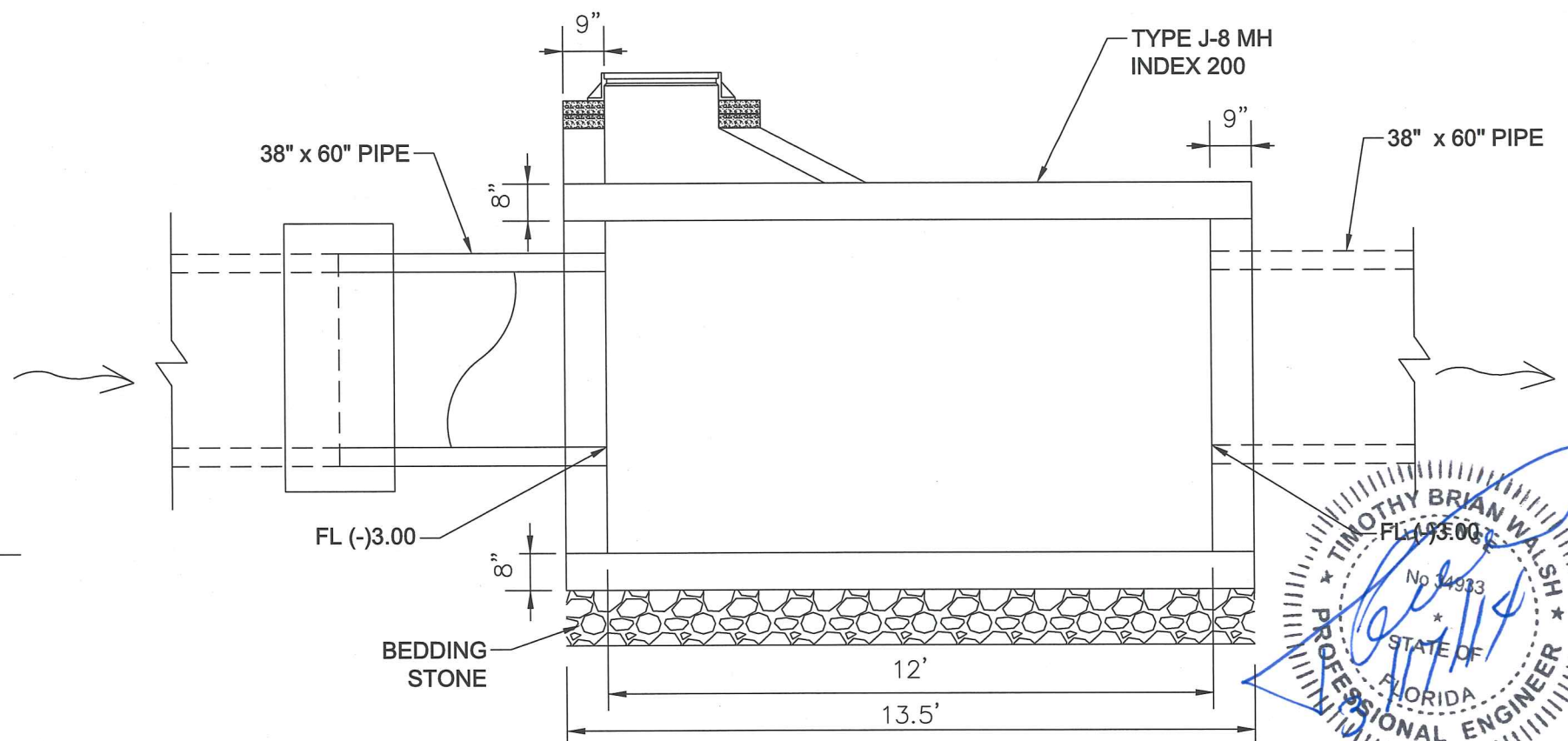
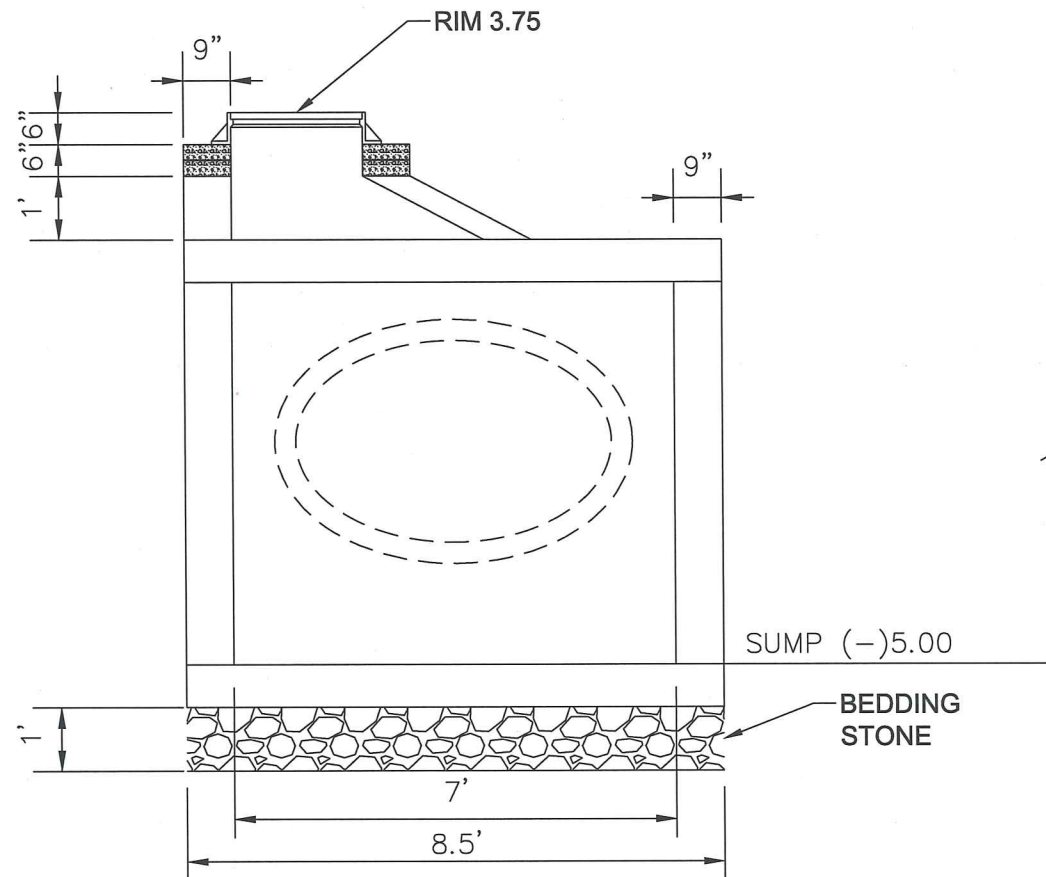
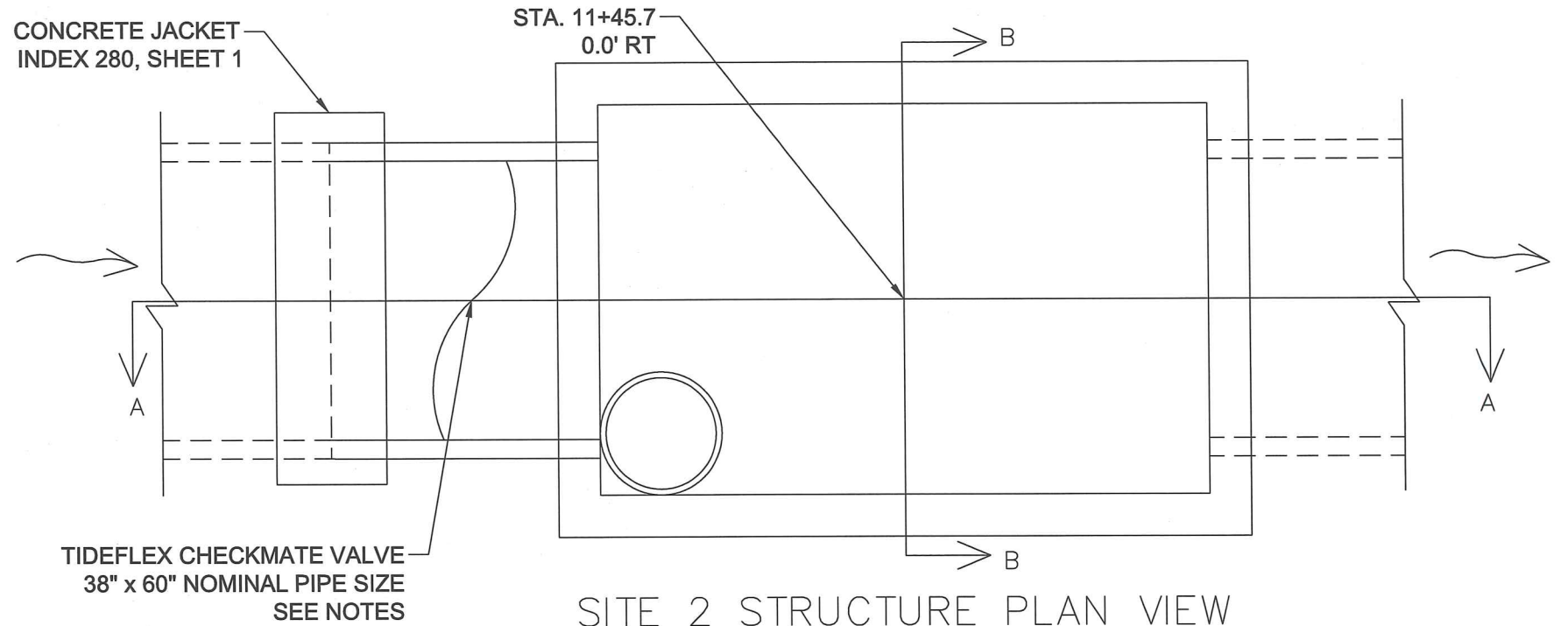
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LIC. NO. 34933

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FLORIDA LICENSE NO. 000072
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BEACH STREET BACKFLOW PREVENTERS
BACKFLOW PREVENTERS, SITE 5
PROJECT NO 6545-02

- TIDEFLEX CHECKMATE VALVE NOTES
1. THE ELASTOMER SHALL BE NEOPRENE.
 2. THE CONTRACTOR MAY CHOOSE BETWEEN THE FOLLOWING CLAMPS:
 - CHECKMATE CUFF UPSTREAM, CMCU-380-22-38
 - CHECKMATE FLANGE UPSTREAM, CMFU-380-22-38

- CONCRETE BOX NOTES
1. SHOP DRAWINGS INCLUDING CONTRACTOR'S MEANS AND METHODS OF CONSTRUCTION AND DEWATERING ARE REQUIRED.
 2. ALL JOINTS FOR CONCRETE BOXES PROVIDED AS SEPARATE PIECES SHALL BE ASSEMBLED WITH RAMNEK. ALL JOINTS SHALL BE SEALED WITH EZ-WRAP (OR APPROVED EQUAL).



Contract No.: 6235-CH WA#2	Project No.: 474597
Survey Date: XXXXXX	Design Date:
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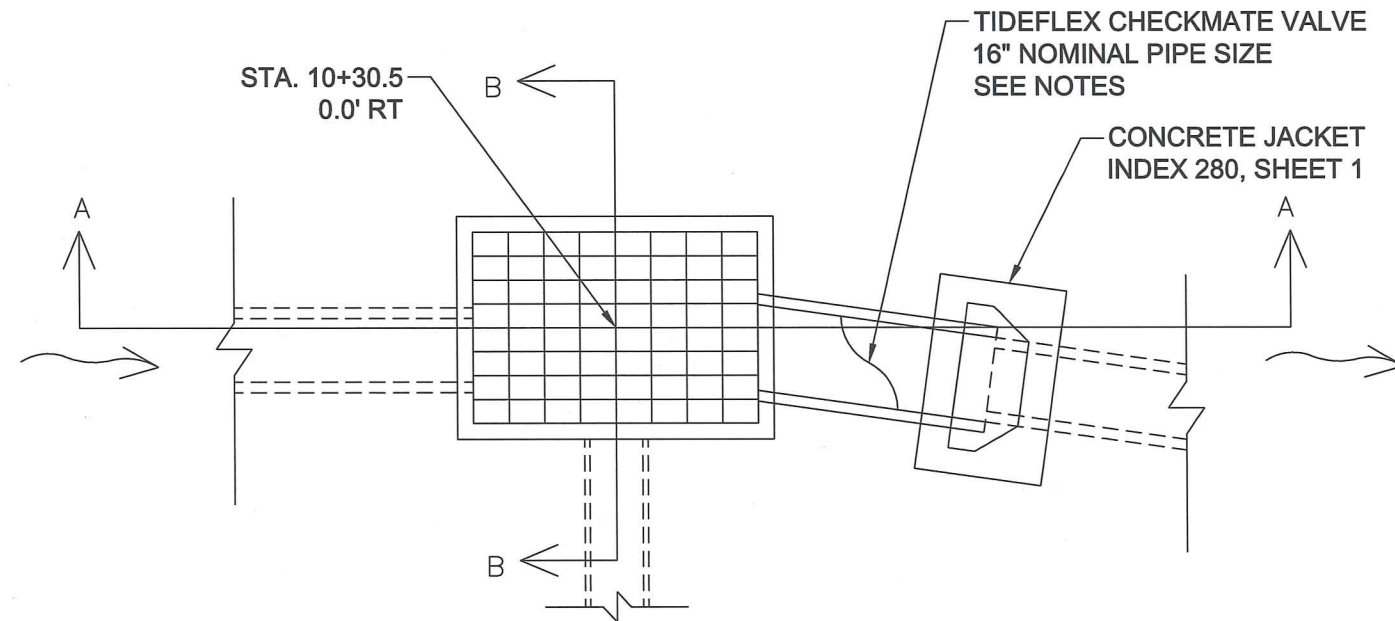
225 EAST ROBINSON STREET, SUITE 505
ORLANDO, FLORIDA 32801
FLORIDA LICENSE NO. 000072
TIMOTHY B. WALSH, P.E. FL. REG. NO. 34933

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LIC. NO. 34933

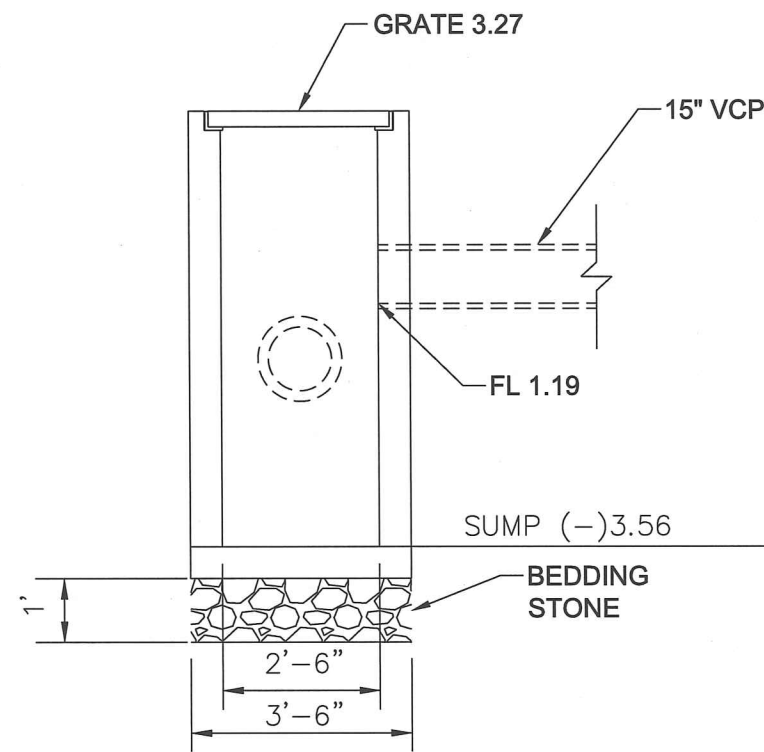
BEACH STREET BACKFLOW PREVENTERS
STRUCTURE DETAIL, SITE 2
PROJECT NO. 6545-02

TIDEFLEX CHECKMATE VALVE NOTES
 1. THE ELASTOMER SHALL BE NEOPRENE.
 2. THE CONTRACTOR MAY CHOOSE BETWEEN THE FOLLOWING CLAMPS:
 -CHECKMATE CUFF UPSTREAM, CMCU-160-22-16
 -CHECKMATE FLANGE UPSTREAM, CMFU-160-22-16

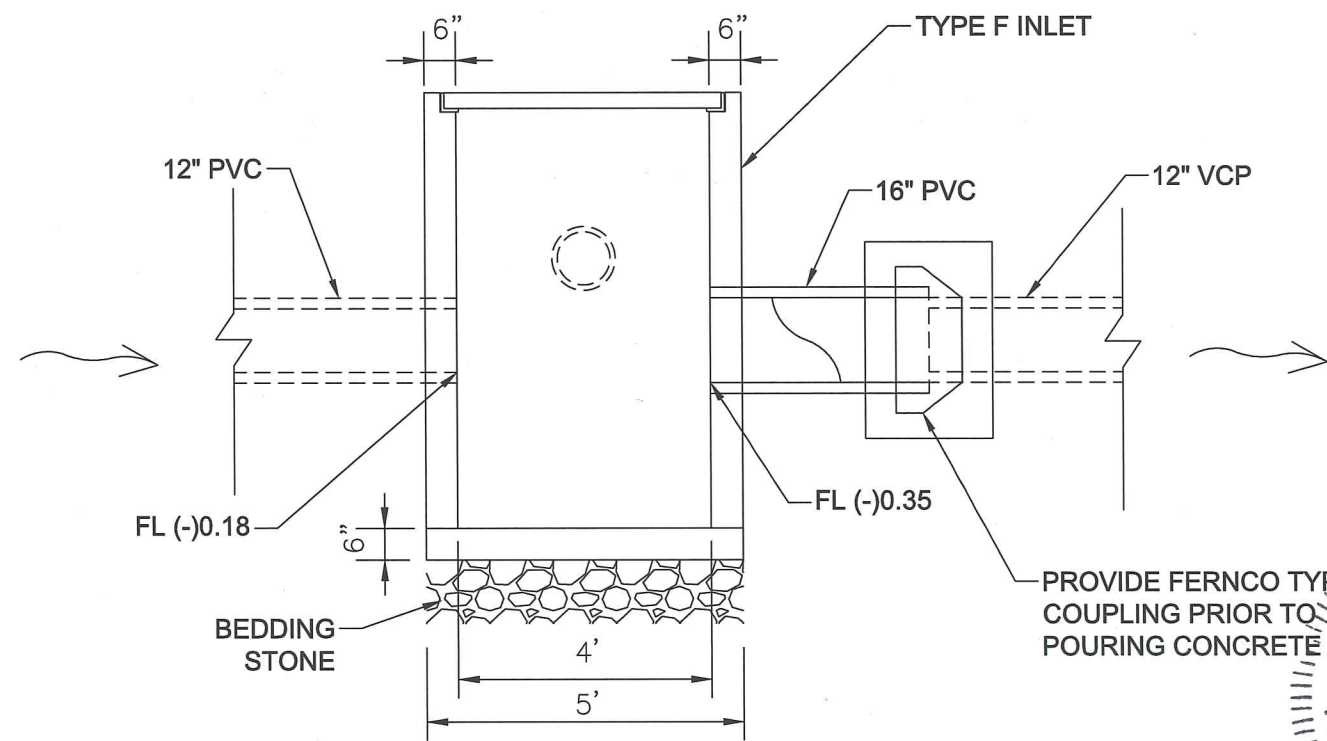
1. SHOP DRAWINGS INCLUDING CONTRACTOR'S MEANS AND METHODS OF CONSTRUCTION AND DEWATERING ARE REQUIRED.
2. CONSTRUCT USING ALTERNATE G GRATE.



SITE 3 STRUCTURE PLAN VIEW

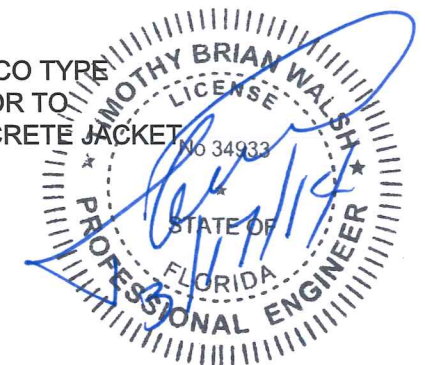


SITE 3 STRUCTURE SECTION B-B



SITE 3 STRUCTURE SECTION A-A

PROVIDE FERNCO TYPE COUPLING PRIOR TO POURING CONCRETE JACKET



Contract No.: 6235-CH WA#2	Project No.: 474597
Survey Date: XXXXXX	Design Date:
Drawn By:	Drawn By:
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 LIC. NO. 34933

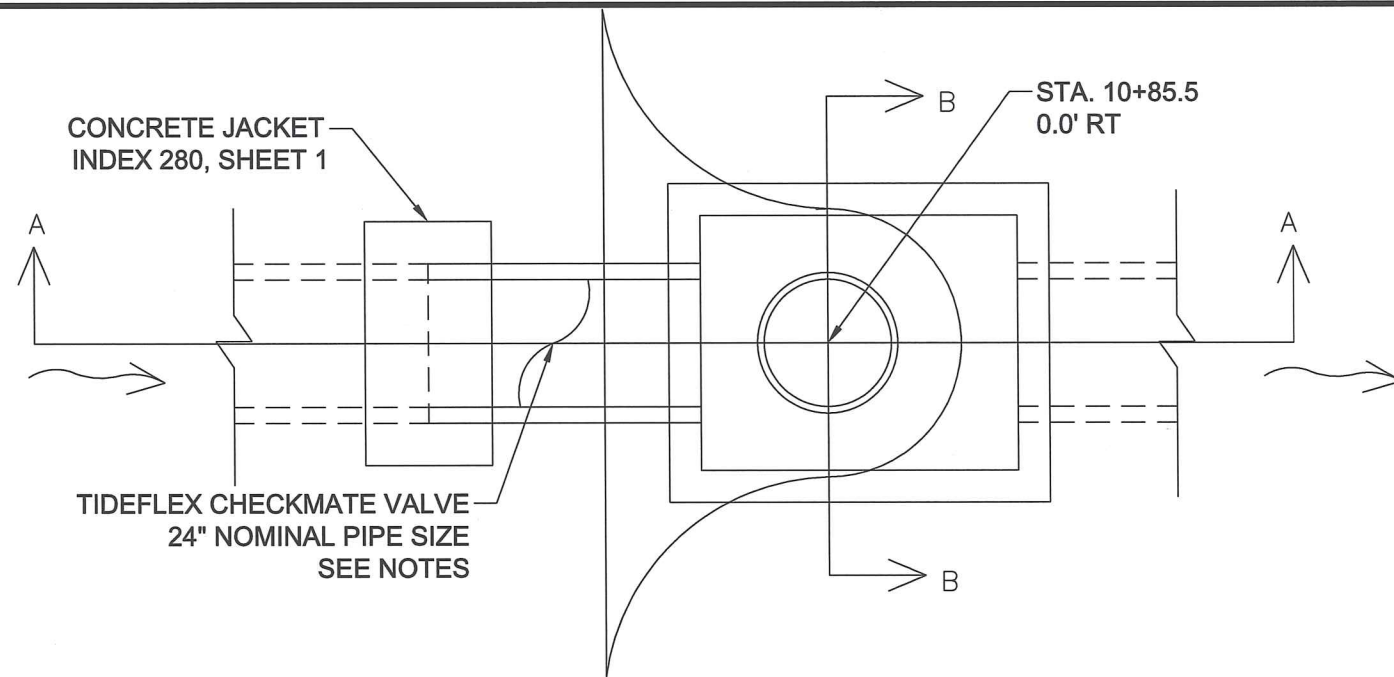
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 ORLANDO, FLORIDA 32801
 FLORIDA LICENSE NO. 000072
 TIMOTHY B. WALSH, P.E. FL. REG. NO. 34933

BEACH STREET BACKFLOW PREVENTERS
 STRUCTURE DETAIL, SITE 3
 PROJECT NO. 6545-02

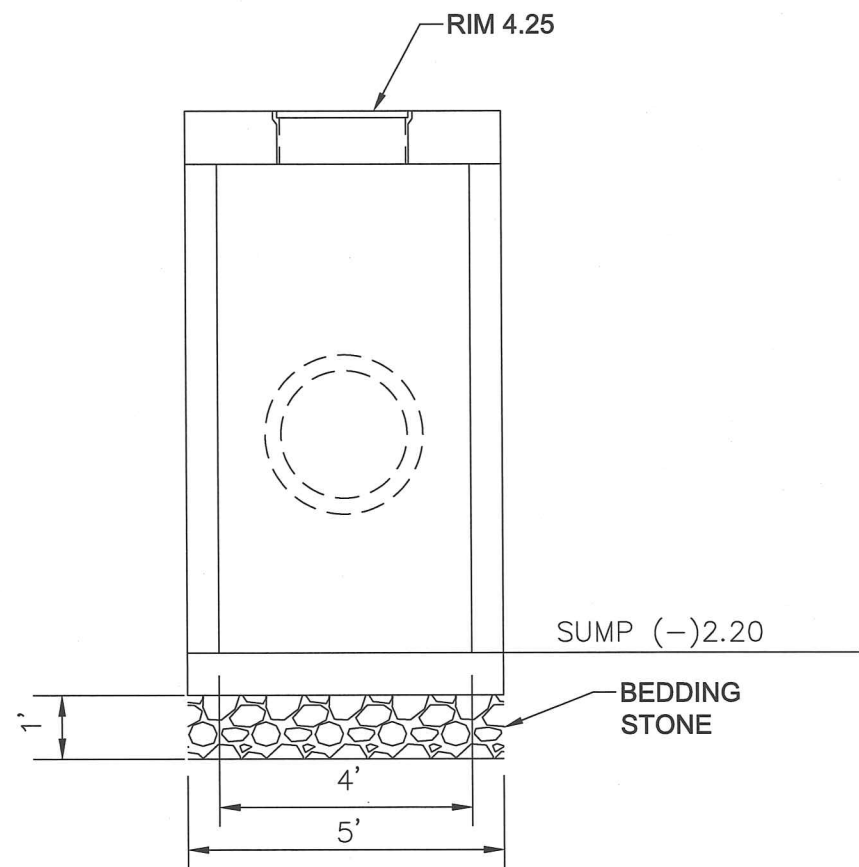
SHEET 11 of 21

TIDEFLEX CHECKMATE VALVE NOTES
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 2. THE CONTRACTOR MAY CHOOSE BETWEEN THE FOLLOWING CLAMPS:
 -CHECKMATE CUFF UPSTREAM, CMCU-240-22-24
 -CHECKMATE FLANGE UPSTREAM, CMFU-240-22-24

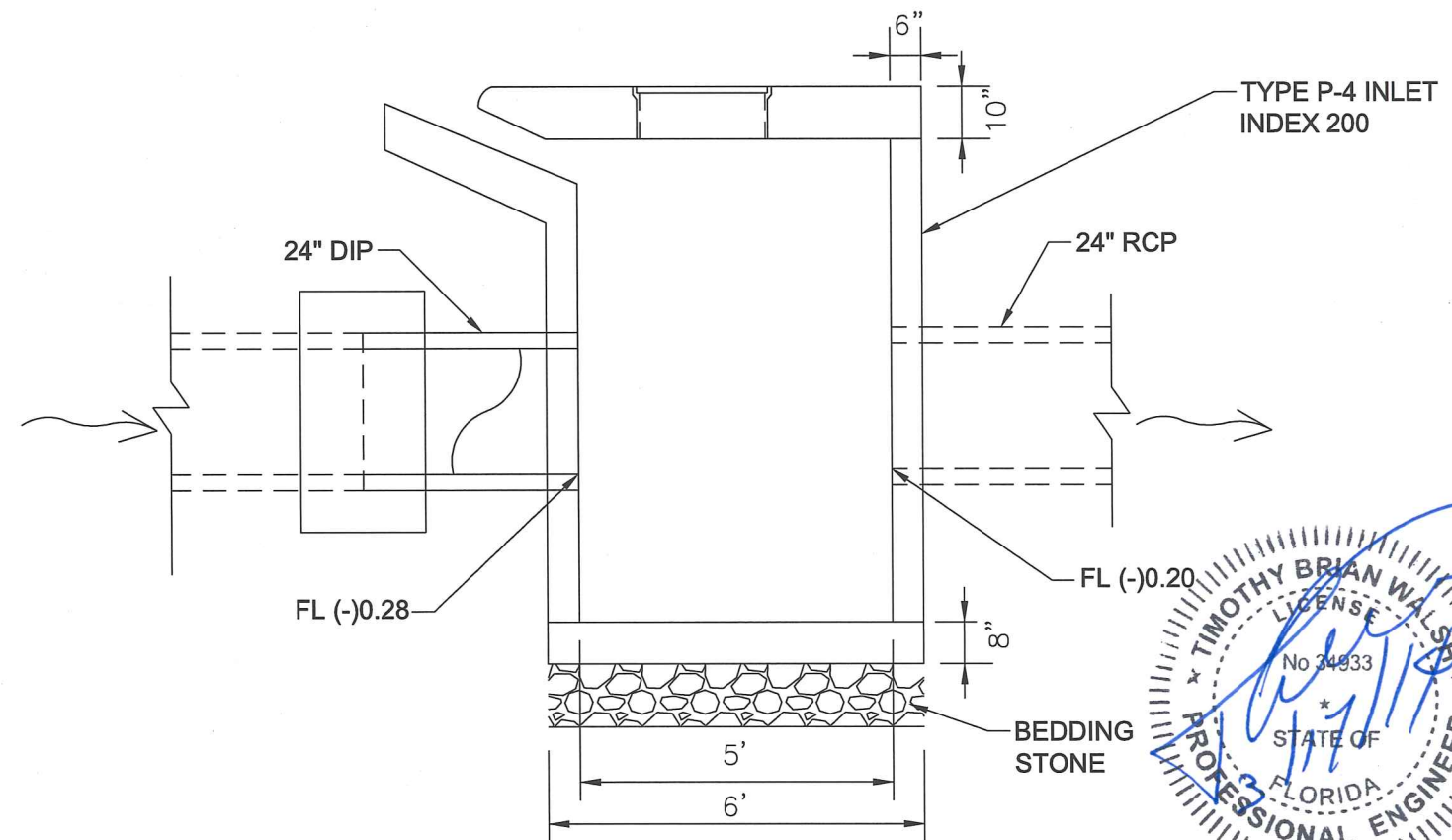
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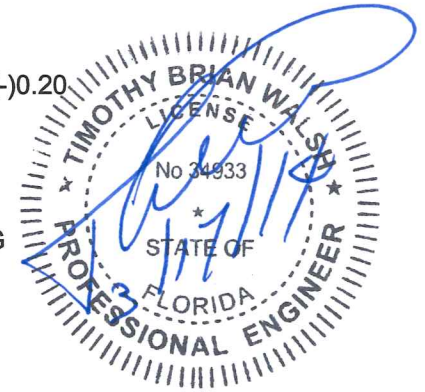
SITE 4 STRUCTURE PLAN VIEW



SITE 4 STRUCTURE SECTION B-B



SITE 4 STRUCTURE SECTION A-A



Contract No.: 6235-CH WA#2	Project No.: 474597
Survey Date: XXXXXX	Design Date:
Drawn By:	Drawn By:
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 LIC. NO. 34933

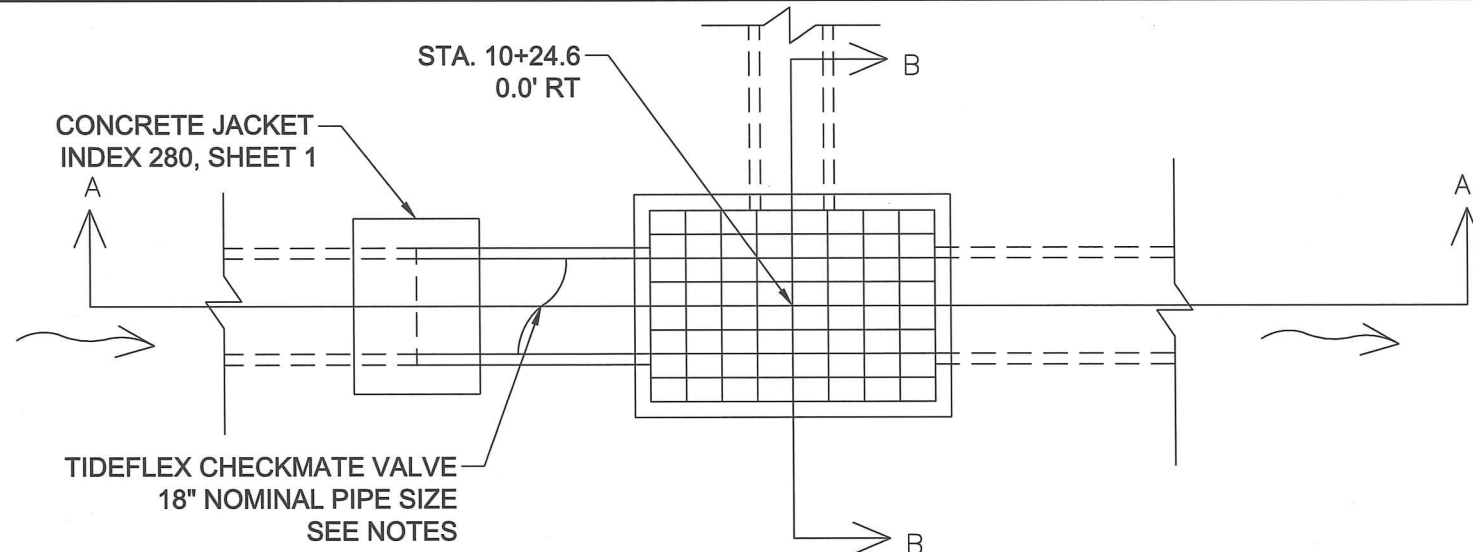
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 225 EAST ROBINSON STREET, SUITE 505
 ORLANDO, FLORIDA 32801
 FLORIDA LICENSE NO. 000072
 TIMOTHY B. WALSH, P.E. FL. REG. NO. 34933

BEACH STREET BACKFLOW PREVENTERS
 STRUCTURE DETAIL, SITE 4
 PROJECT NO. 6545-02

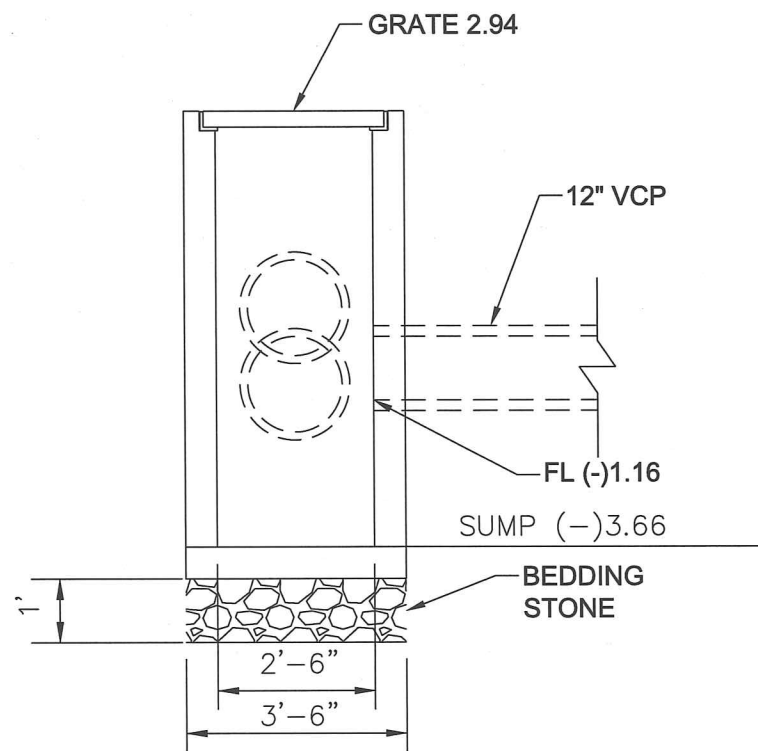
SHEET 12 of 21 SHEETS

TIDFLEX CHECKMATE VALVE NOTES
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 -CHECKMATE FLANGE UPSTREAM, CMFU-180-22-18

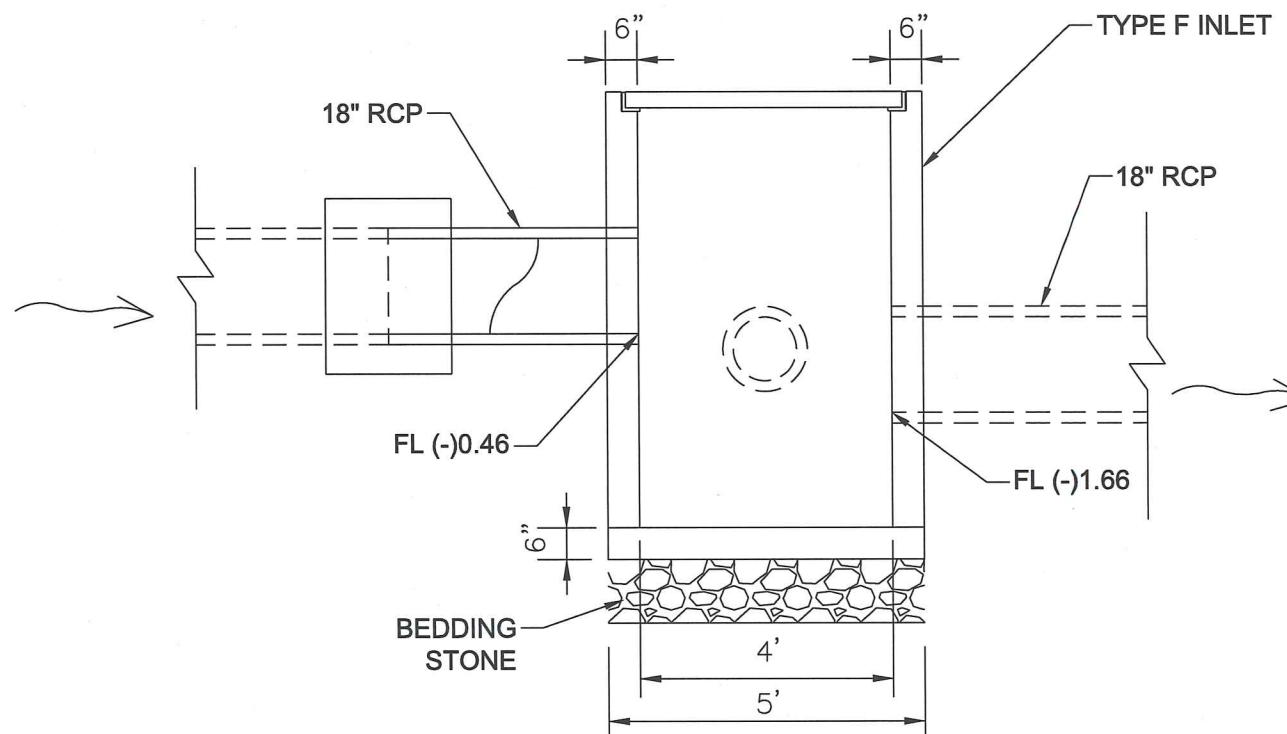
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 2. CONSTRUCT USING ALTERNATE G GRATE.



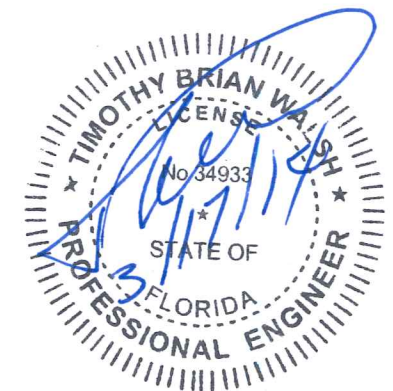
SITE 5 STRUCTURE PLAN VIEW



SITE 5 STRUCTURE SECTION B-B



SITE 5 STRUCTURE SECTION A-A



Contract No.: 6235-CH WA#2	Project No.: 474597
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 LIC. NO. 34933

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 225 EAST ROBINSON STREET, SUITE 505
 ORLANDO, FLORIDA 32801
 FLORIDA LICENSE NO. 000072
 TIMOTHY B. WALSH, P.E. FL. REG. NO. 34933

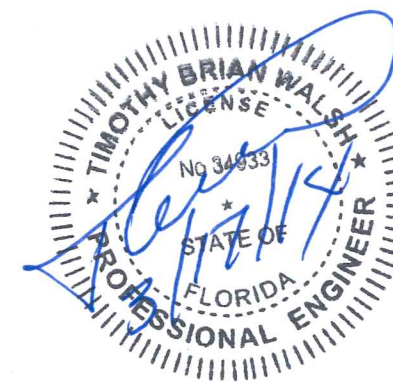
BEACH STREET BACKFLOW PREVENTERS
 STRUCTURE DETAIL, SITE 5
 PROJECT NO. 6545-02

SHEET 13 of 21

MAINTENANCE OF TRAFFIC, DRAINAGE AND UTILITY SERVICE PLANS

GENERAL NOTES

1. ALL MAINTENANCE OF TRAFFIC SHALL CONFORM TO THE REQUIREMENTS OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND THE FDOT ROADWAY AND TRAFFIC DESIGN STANDARD INDEX SERIES 600, LATEST EDITION AND SUPPLEMENTS, THERETO, AND AS SHOWN ON THESE PLANS.
2. WITHIN 14 CALENDAR DAYS, THE CONTRACTOR SHALL PROVIDE A SCHEDULE TO THE UTILITIES ENGINEERING DEPARTMENT OF ANY PROPOSED LANE AND/OR STREET CLOSURES. CONTRACTOR SHALL SCHEDULE HIS WORK TO MINIMIZE ACTIVE MAINTENANCE OF TRAFFIC ON BEACH STREET. CONTRACTOR SHALL SCHEDULE ALL MATERIALS, LABOR, AND EQUIPMENT TO ACCOMPLISH THE JOB WITHIN A FIVE (5) DAY MAINTENANCE OF TRAFFIC PERIOD.
3. ADDITIONAL SIGNING, BARRICADES, OR OTHER TRAFFIC CONTROLS AS REQUIRED BY THE STANDARD INDEX AND MUTCD SHALL BE PROVIDED AS CONDITIONS WARRANT IN EACH PHASE. ALL TRAFFIC CONTROL DEVICES SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF THE ASSOCIATED CONSTRUCTION, AND SHALL BE PROPERLY MAINTAINED AND OPERATED THROUGHOUT THE CONSTRUCTION PERIOD.
4. TRAFFIC CONTROL PLAN DESIGN SPEED SHALL BE 30 MPH. POSTED SPEED SHALL BE 30 MPH.
5. THE PROJECT IS DEFINED AS HAVING FOUR BACKFLOW PREVENTER INSTALLATION LOCATIONS:
 - A. SITE 2, LIVE OAK STREET, SOUTH STRUCTURE.
 - B. SITE 3, LIVE OAK STREET, NORTH STRUCTURE.
 - C. SITE 4, NORTH OF LIVE OAK STREET, EAST SIDE OF BEACH STREET
 - D. SITE 5, PARKING LOT, BETWEEN FIRE STATION AND HALIFAX RIVER YACHT CLUB
6. CONTRACTOR SHALL SCHEDULE AND COORDINATE HIS WORK WITH CITY EVENTS, SUCH AS BIKETOBERFEST. NO WORK SHALL BE ALLOWED DURING THESE PERIODS. NO WORK SHALL COMMENCE UNLESS WORK CAN BE COMPLETED PRIOR TO CITY EVENTS.
7. CONTRACTOR SHALL SCHEDULE HIS WORK SO AS TO AVOID WORKING DURING MAJOR TROPICAL STORM EVENTS. WHEN SO ORDERED, CONTRACTOR SHALL CEASE CONSTRUCTION OPERATION AND SECURE SITE.
8. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN ADEQUATE DRAINAGE PATTERNS DURING CONSTRUCTION. ALL TEMPORARY DRAINAGE FACILITIES DURING CONSTRUCTION WILL BE PAID FOR UNDER THE LUMP SUM UNIT PRICE. AN EMERGENCY PLAN TO RESTORE THE DRAINAGE TO AN EQUAL OR BETTER THAN EXISTING CONDITION MUST BE DEVELOPED AND SUBMITTED TO THE UTILITIES ENGINEERING DEPARTMENT APPROVAL 14 DAYS PRIOR TO CONSTRUCTION AND/OR WITHIN 14 CALENDAR DAYS OF THE NOTICE TO PROCEED WHICHEVER IS EARLIER.
9. ALL PHASES OF CONSTRUCTION SHALL BEGIN AT THE DOWNSTREAM END OF THE DRAINAGE AND PROCEED UPSTREAM.
10. EXISTING REGULATORY SIGNS ARE TO BE MAINTAINED AT ALL TIMES WHERE APPLICABLE. CONFLICTING EXISTING REGULATORY SIGNS ARE TO BE REMOVED OR COVERED. EXISTING REGULATORY SPEED SIGNS APPLY UNLESS OTHERWISE NOTED.
11. EXISTING PAVEMENT MARKINGS ARE TO BE MAINTAINED AT ALL TIMES.
12. EXISTING PAVEMENT MARKINGS DAMAGED OR DESTROYED DURING CONSTRUCTION OPERATIONS SHALL BE REPLACED DURING THE SAME WORKING DAY.
13. ARROWS SHOWN ON THE PLANS DENOTE TRAFFIC ONLY AND DO NOT INDICATE PAVEMENT MARKINGS.
14. ALL LANE/STREET CLOSURES SHALL BE REPORTED TO THE LOCAL EMERGENCY AGENCIES BY THE CITY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE SUFFICIENT NOTIFICATION TO THE CITY OF THE POTENTIAL LANE CLOSURES SUCH THAT PROPER COORDINATION WITH THE LOCAL EMERGENCY AGENCIES MAY BE ATTAINED. UNLESS OTHERWISE AGREED UPON THIS NOTIFICATION PERIOD SHALL BE AT LEAST 24 HOURS BUT NOT MORE THAN 48 HOURS. THE CONTRACTOR SHALL BE RESPONSIBLE TO NOTIFY RESIDENTS AND BUSINESSES A MINIMUM OF 24 HOURS IN ADVANCE OF ANY PLANNED UTILITY INTERRUPTIONS.
15. AT SITE 4, NORTH OF LIVE OAK AVENUE ON BEACH STREET, A PLATE IS TO BE PLACED OVER THE TRENCH AT NIGHT TO PROTECT DRIVERS AND PEDESTRIANS FROM THE DROP OFF HAZARD.
16. DROP OFF PROTECTION PER FDOT STANDARD INDEX 600, SHEET 10 OF 13 SHALL BE STRICTLY ENFORCED. PROVISIONS ARE TO BE PROVIDED FOR THE PROTECTION OF PEDESTRIANS ON THE OPPOSITE SIDE OF TRENCH.
17. THIS MAINTENANCE OF TRAFFIC PLAN IS PROVIDED TO DESCRIBE THE MINIMUM CRITERIA FOR CERTAIN SITUATIONS AND IS NOT A SEQUENCE OF CONSTRUCTION.
18. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL COORDINATE WITH VOTRAN TO ADDRESS THE BLOCKAGE OF ANY AFFECTED BUS STOPS.
19. MAINTENANCE OF TRAFFIC IS INCLUDED IN THE LUMP SUM BID PRICE.



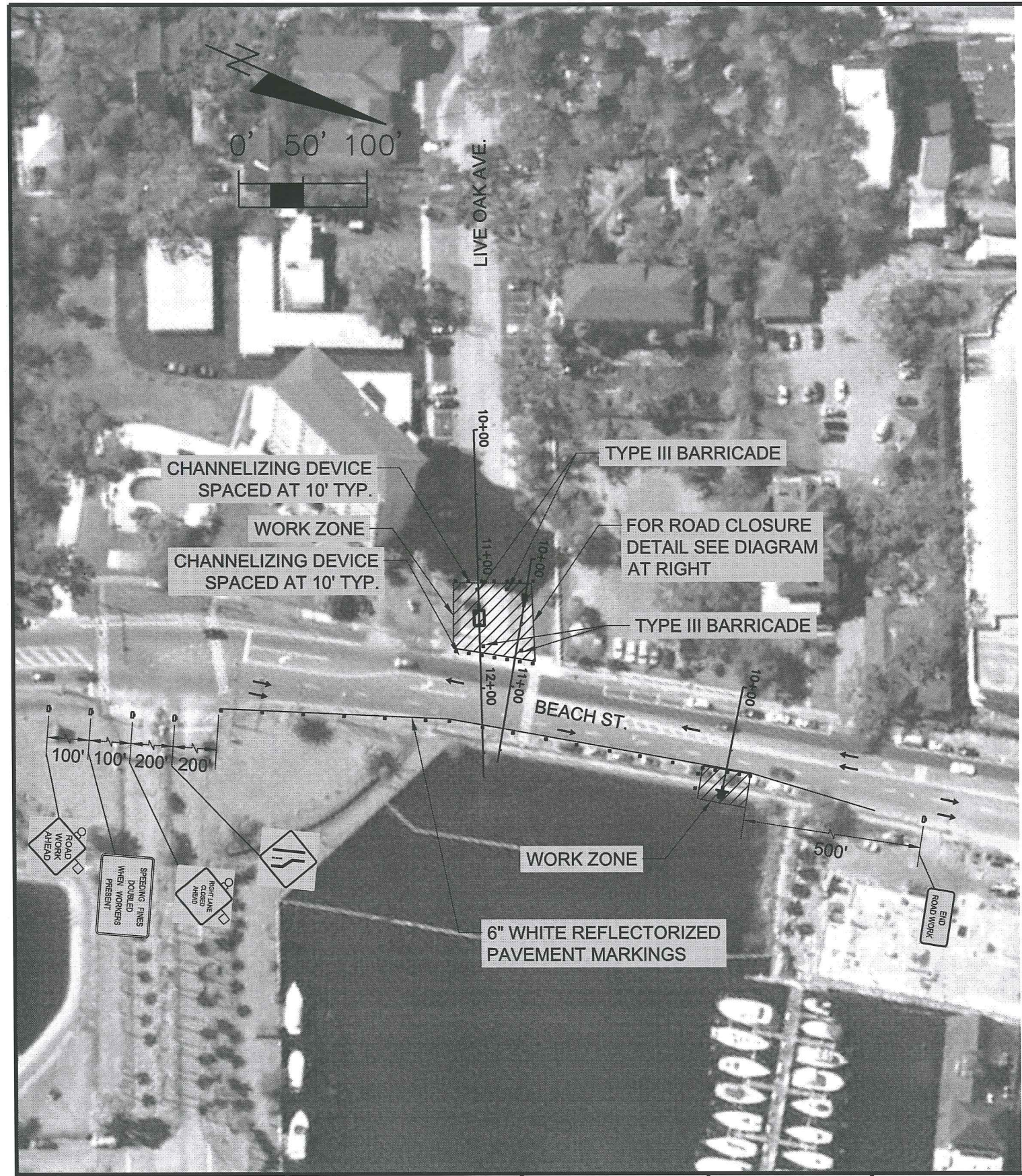
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LIC. NO. 34933

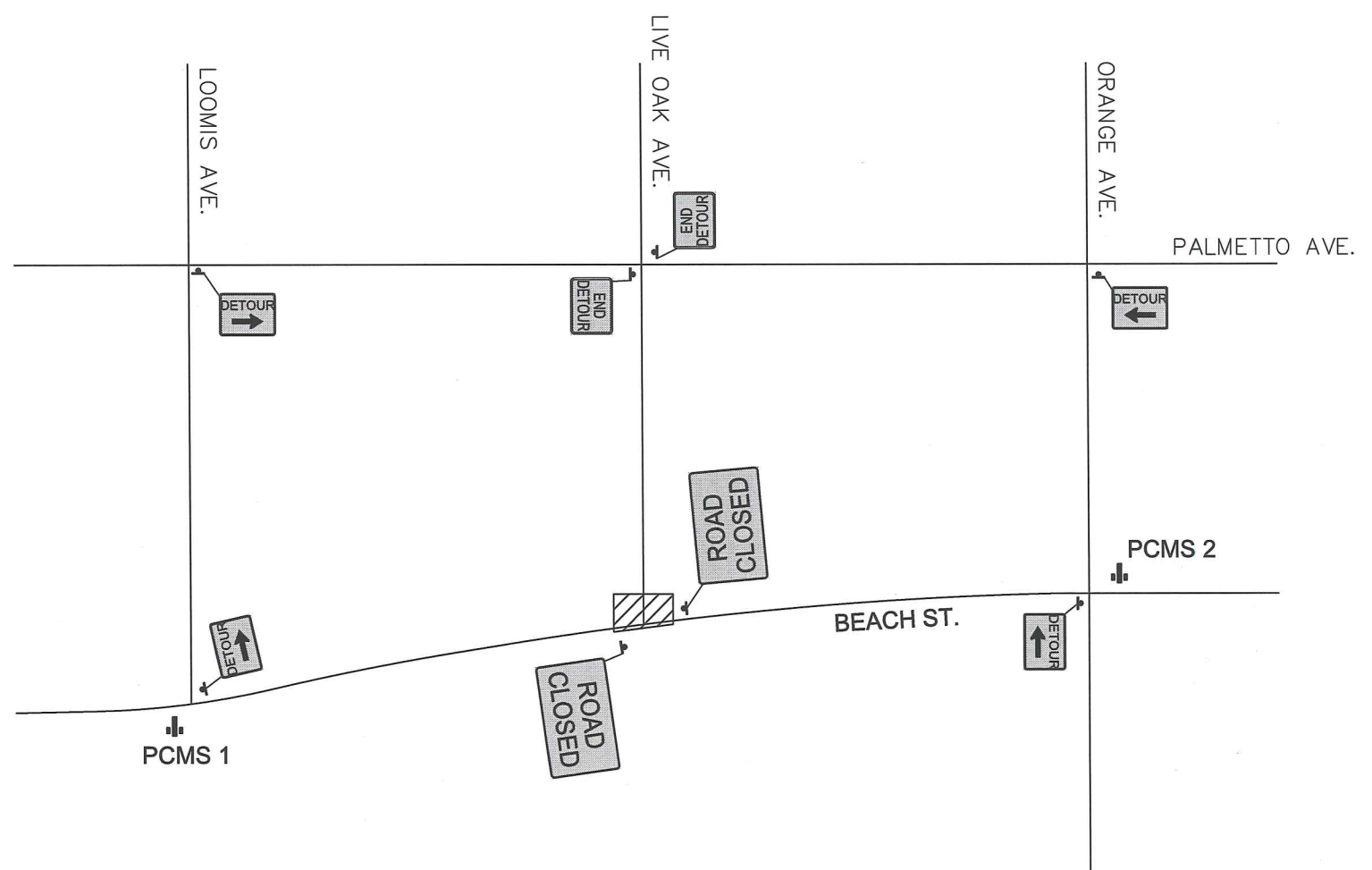
CH2MHILL.
225 EAST ROBINSON STREET, SUITE 505
ORLANDO, FLORIDA 32801
FLORIDA LICENSE NO. 000072
TIMOTHY B. WALSH, P.E. FL. REG. NO. 34933

BEACH STREET BACKFLOW PREVENTERS
TRAFFIC CONTROL GENERAL NOTES
PROJECT NO 6545-02

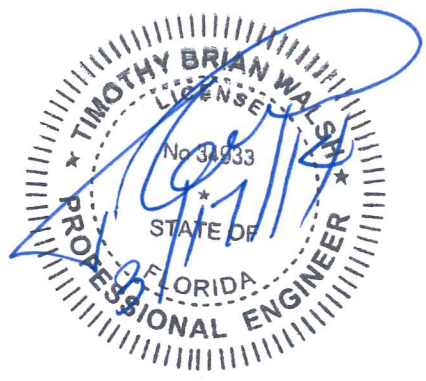
SHEET 14 of 21 SHEETS



ROAD CLOSURE DETOUR DIAGRAM FOR LIVE OAK AVENUE NORTH OF BEACH STREET



- PCMS 1 & 2
- LIVE OAK AVE CLOSED PHASE 1 7 SECONDS
- FOLLOW DETOUR PHASE 2 7 SECONDS

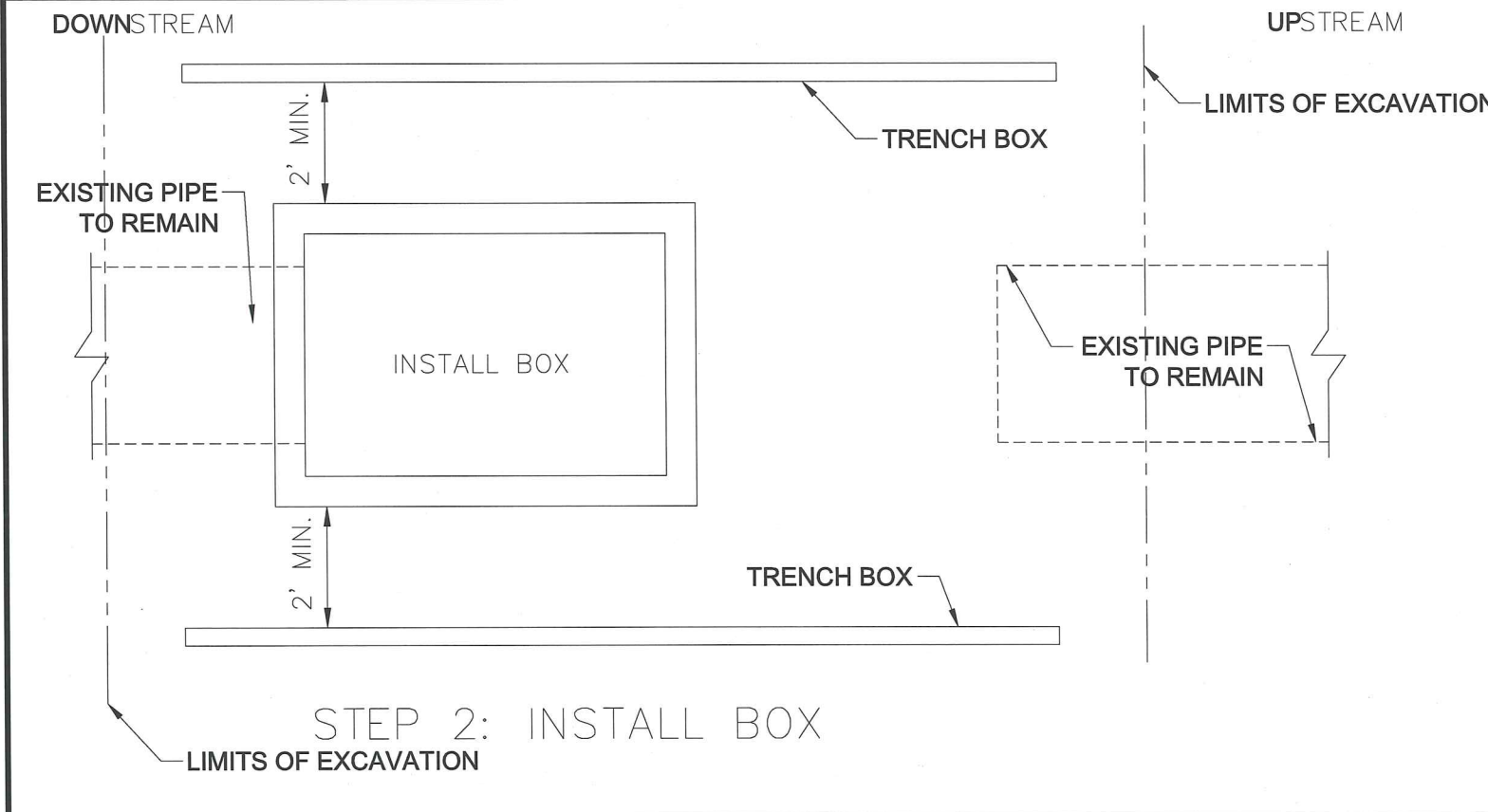
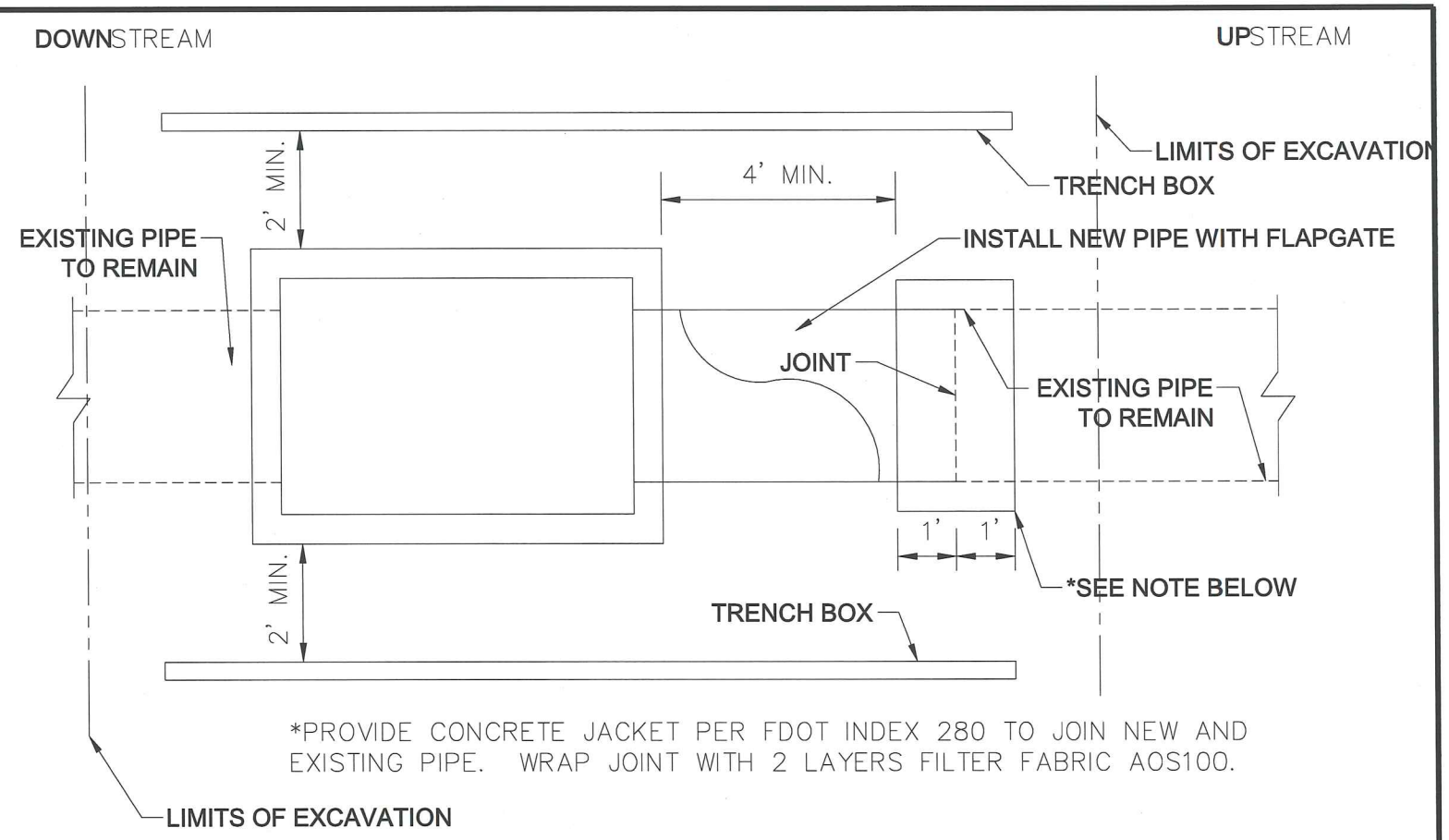
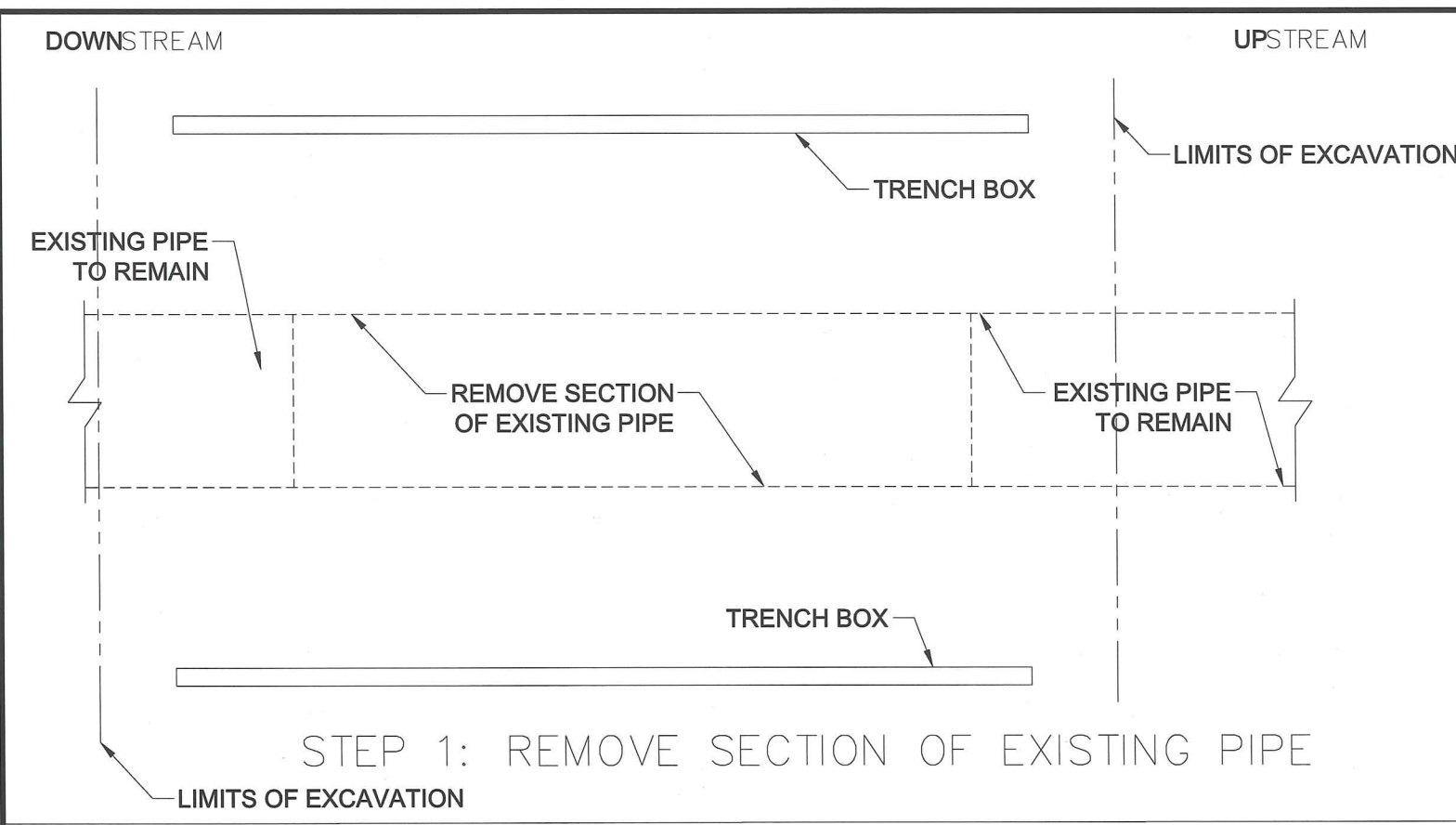


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BEACH STREET BACKFLOW PREVENTERS
SITE 2-4 TRAFFIC CONTROL PLAN
PROJECT NO 6545-02



- NOTES:
1. THIS IS ONE METHOD OF INSTALLING THE STRUCTURE, BACKFLOW PREVENTER AND PIPE. IT IS NOT INTENDED TO DICTATE THE SELECTED MEANS AND METHODS OF CONSTRUCTION BY THE CONTRACTOR.
 2. SHOP DRAWINGS INCLUDING THE CONTRACTOR'S SELECTED MEANS AND METHOD OF CONSTRUCTION AND DEWATERING ARE REQUIRED.
 3. CONTRACTOR SHALL FIELD VERIFY INVERTS, PIPE SIZES AND RIM/ GRATE ELEVATIONS PRIOR TO SUBMITTING SHOP DRAWINGS. FIELD VERIFIED INFORMATION SHALL BE INCLUDED ON SHOP DRAWINGS.



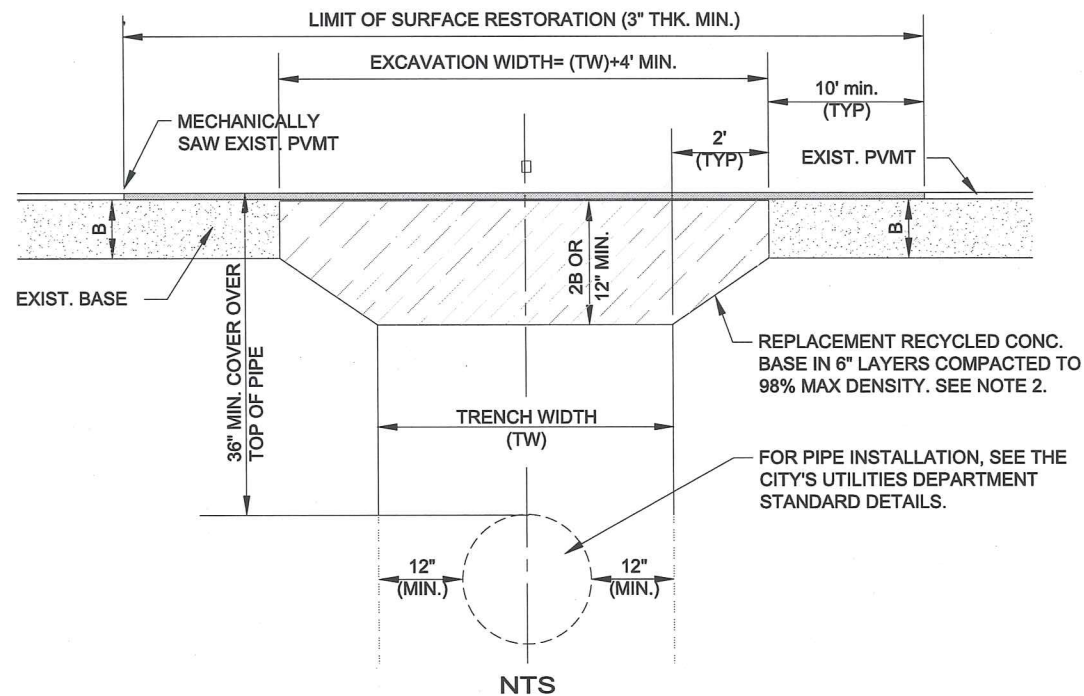
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 LIC. NO. 34933

BEACH STREET BACKFLOW PREVENTERS
 TYPICAL STRUCTURE INSTALLATION DETAIL
 PROJECT NO. 6545-02

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of
21

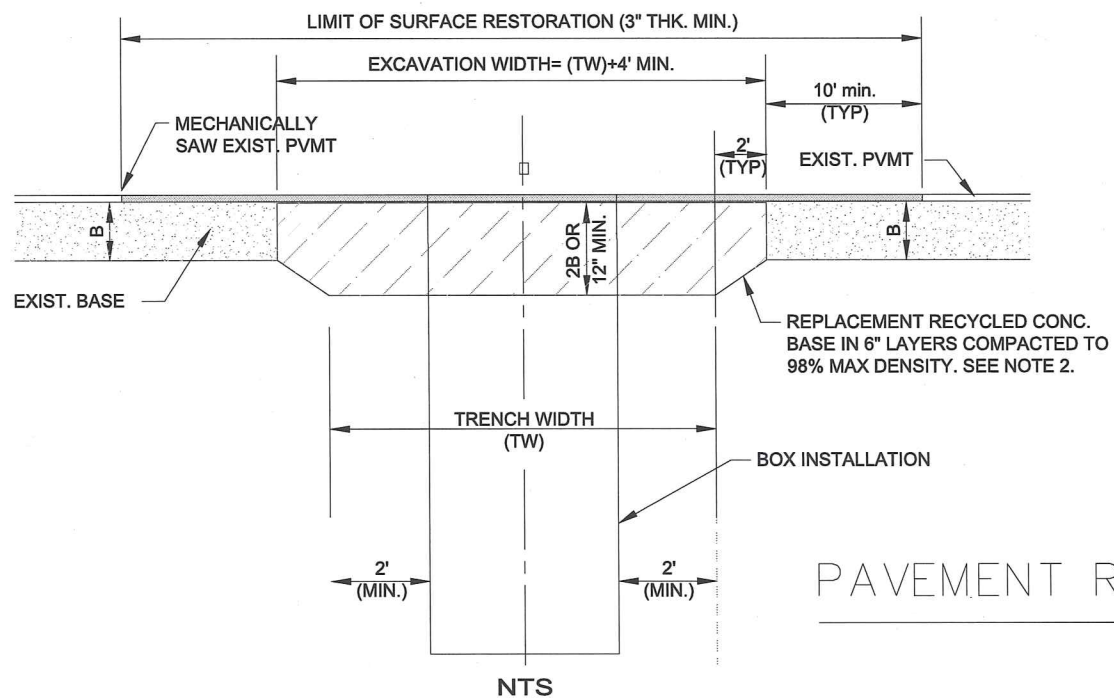


CITY OF DAYTONA BEACH
PAVEMENT CUT & PATCH OVER PIPE TRENCH DETAIL

N.T.S.

NOTES:

1. ALL MATERIALS ARE TO BE APPROVED BY THE CITY ENGINEER AND THE PROJECT'S LICENSED SOILS ENGINEER PRIOR TO PLACEMENT.
2. COMPACTION, STABILITY & DENSITY TESTING ARE TO BE DONE IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS FOR ROADWAY & BRIDGE CONSTRUCTION, LATEST EDITION.
3. WHERE SOIL CONDITIONS CAN NOT BE MAINTAINED AS SHOWN ABOVE, PROVIDE APPROVED METHOD OF CONSTRUCTION.
4. SHEETING WILL BE REQUIRED AS DETERMINED IN THE FIELD.
5. NEW SURFACING MATERIALS SHALL BE CONSISTENT WITH EXISTING AND SHALL HAVE LAPPED & FEATHERED JOINTS (3" MIN. THK.)
6. CONTRACTOR MAY USE FLOWABLE FILL IN LIEU OF RECYCLED CONC. UNDER THE APPROVAL FROM THE CITY ENGINEER OR DESIGNEE.
7. PIPE TRENCH WIDTH (TW)= PIPE OD (CENTERED)+24" (MINIMUM).
8. BOX TRENCH WIDTH (TW)= BOX WIDTH (CENTERED)+4' (MINIMUM).
9. (B)= EXISTING BASE DEPTH
10. TEMPORARY PATCH MAY BE RECYCLED ASPHALT, FDOT APPROVED COLD PATCH OR APPROVED EQUAL.
11. FINAL PATCH TO BE 3" MIN. SP 9.5
12. PATCH SHALL BE TOTAL ROADWAY WIDTH



CITY OF DAYTONA BEACH
PAVEMENT REPAIR AROUND A STRUCTURE TRENCH DETAIL

N.T.S.



Contract No.: 6235-CH WA#2	Project No.: 474597
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BEACH STREET BACKFLOW PREVENTERS
PAVEMENT REPAIR DETAIL
PROJECT NO. 6545-02

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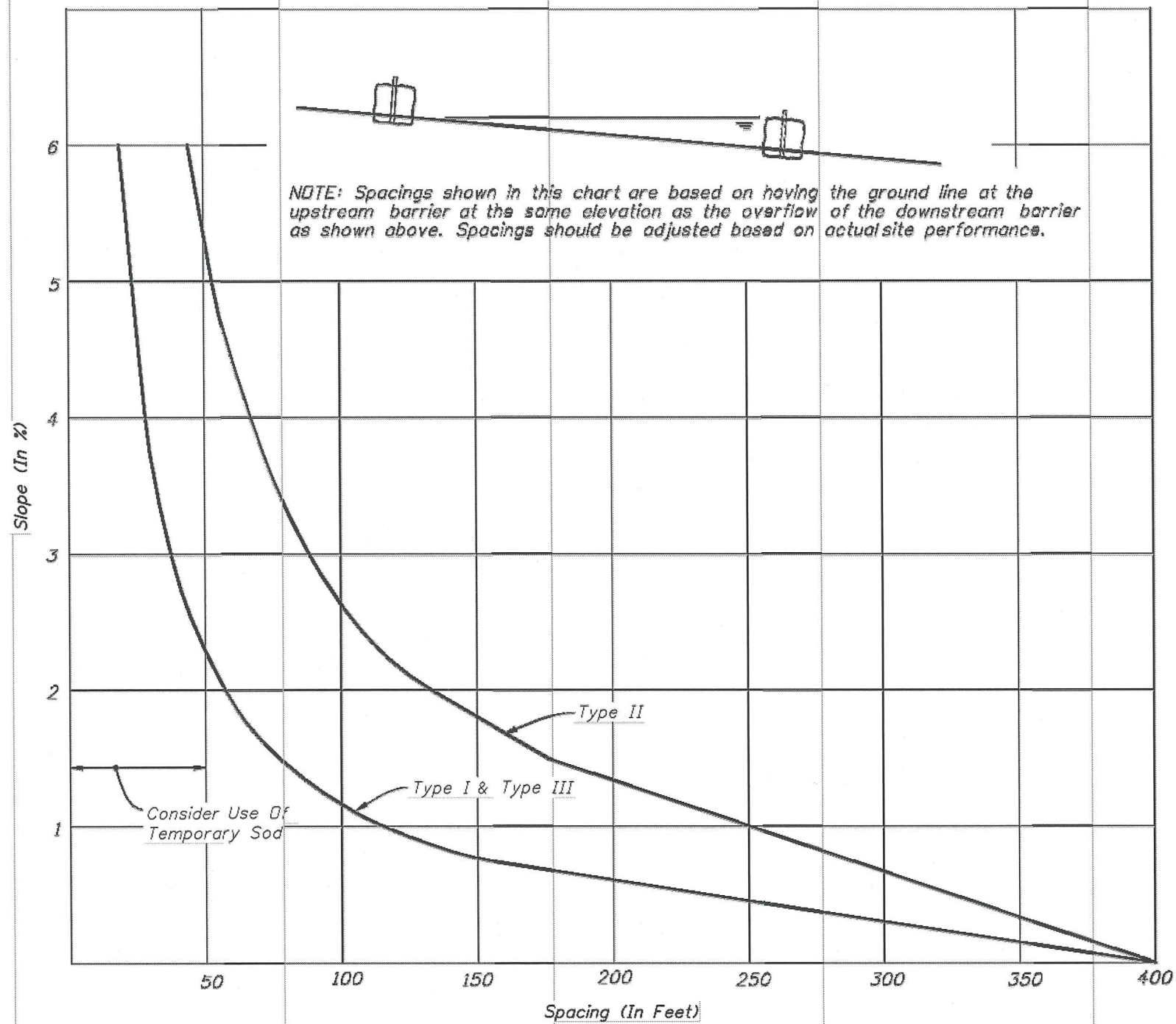
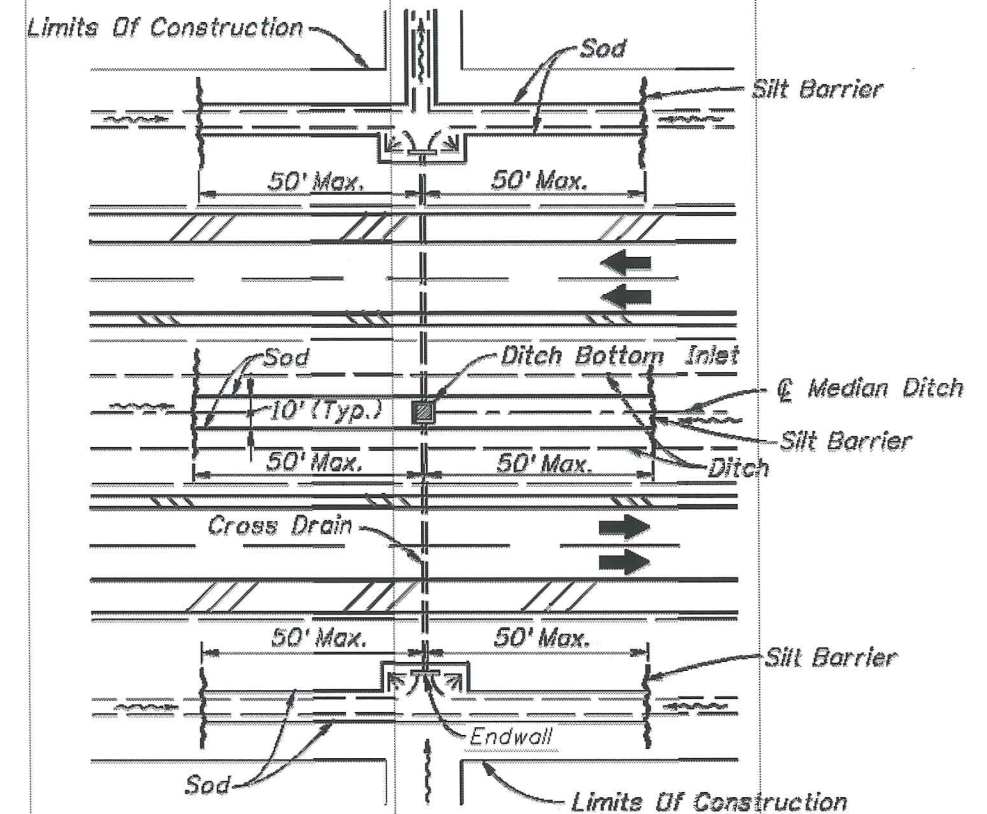


CHART I
RECOMMENDED SPACING FOR SYNTHETIC BALES OR BALE TYPE BARRIERS AND TYPE III SILT FENCE



DITCH INSTALLATIONS AT DRAINAGE STRUCTURES

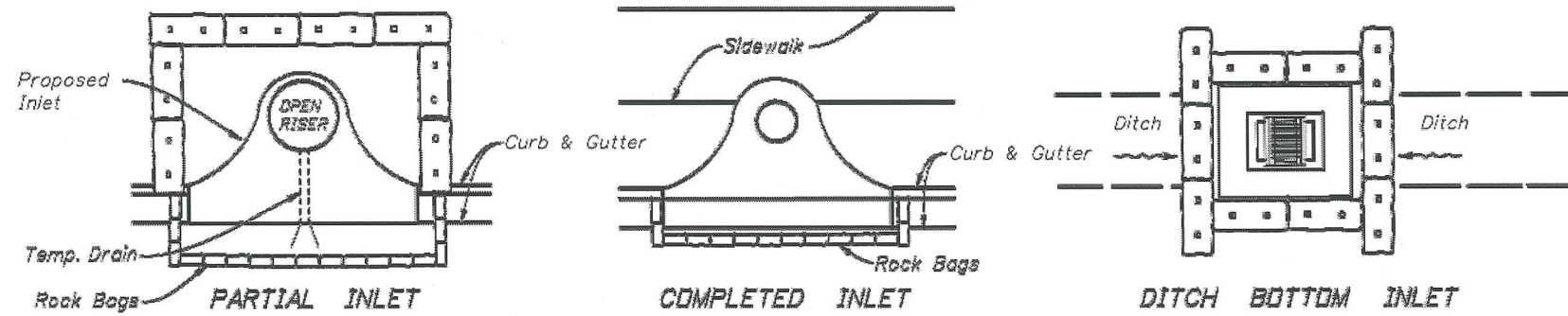


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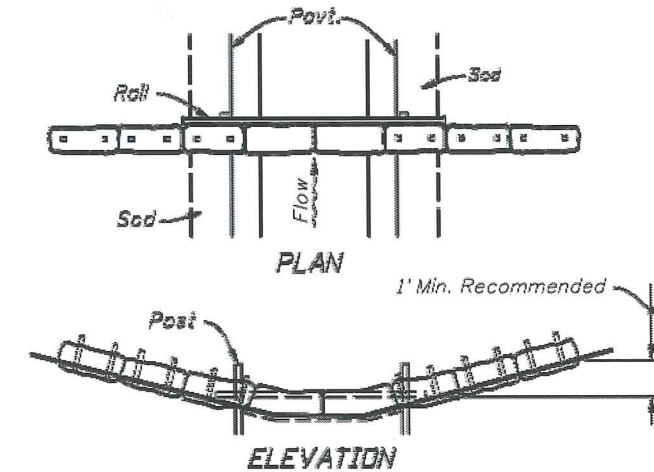
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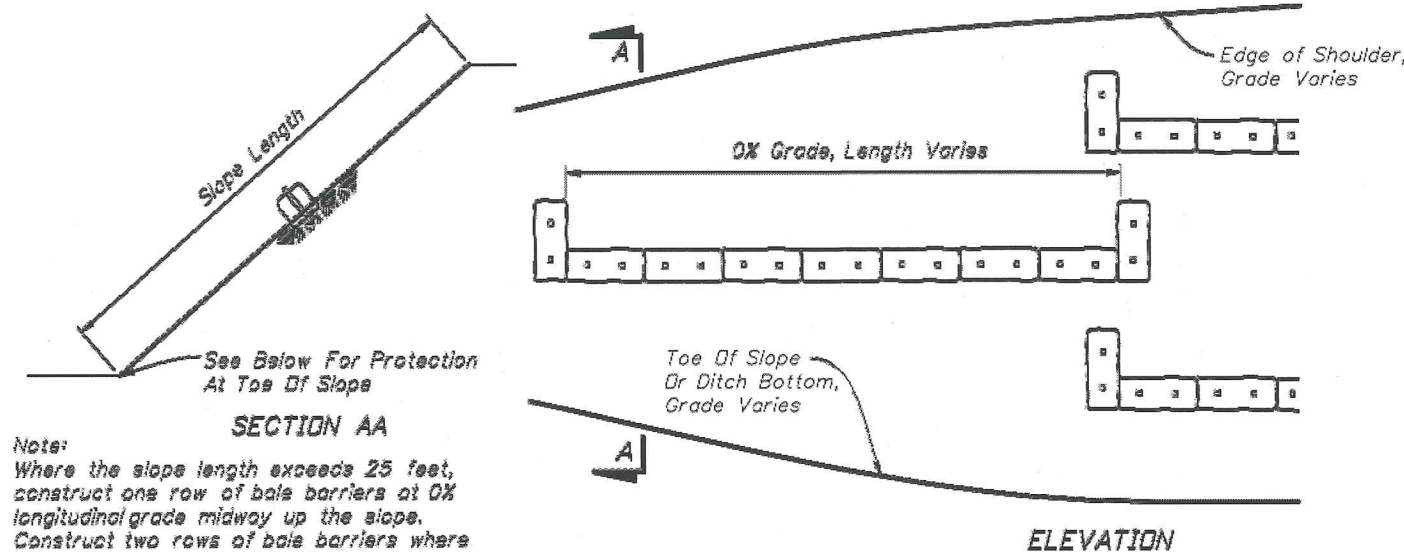
**BEACH STREET BACKFLOW PREVENTERS
 EROSION CONTROL DETAILS
 PROJECT NO 6545-02**



PROTECTION AROUND INLETS OR SIMILAR STRUCTURES

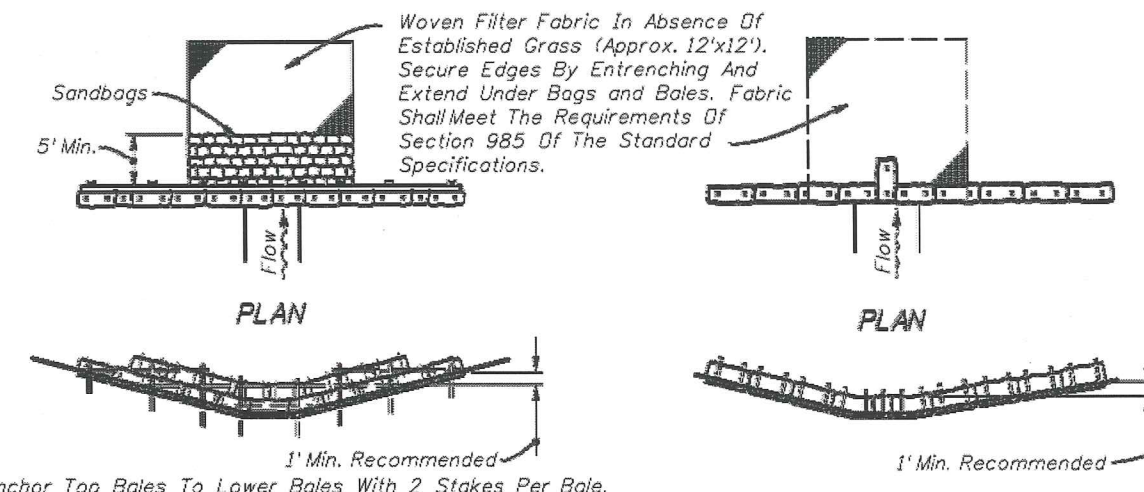


SYNTHETIC BALES OR BALE TYPE BARRIERS FOR PAVED DITCHES



ALONG FILL SLOPE

Note: Where the slope length exceeds 25 feet, construct one row of bale barriers at 0% longitudinal grade midway up the slope. Construct two rows of bale barriers where the slope length exceeds 50 feet.



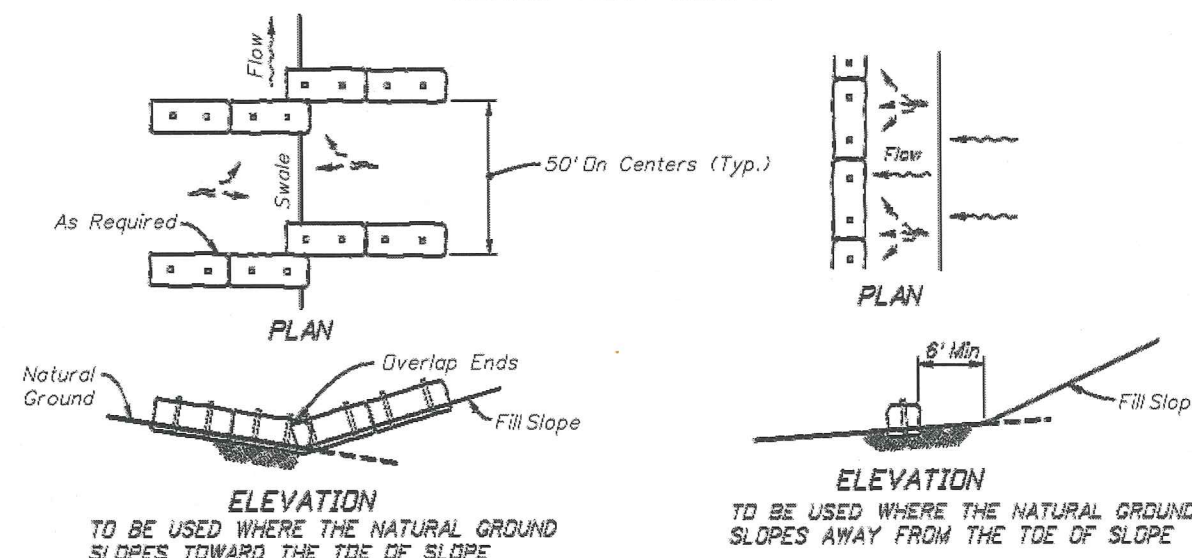
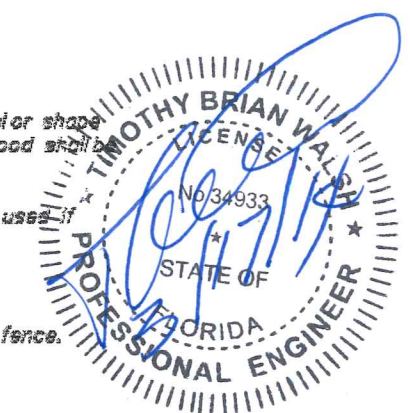
ELEVATION TYPE II

ELEVATION TYPE I

SYNTHETIC BALES OR BALE TYPE BARRIERS FOR UNPAVED DITCHES

NOTES FOR SYNTHETIC BALES OR BALE TYPE BARRIERS

1. Type I and II Synthetic Barrier should be spaced in accordance with Chart 1, Sheet 1.
2. Bales shall be anchored with 2-1" x 2" (or 1" dia.) x 4' wood stakes. Stakes of other material or shape providing equivalent strength may be used if approved by the Engineer. Stakes other than wood shall be removed upon completion of the project.
3. Rolls and posts shall be 2" x 4" wood. Other materials providing equivalent strength may be used if approved by the Engineer.
4. Adjacent bales shall be butted firmly together.
5. Where used in conjunction with silt fence, bales shall be placed on the upstream side of the fence.



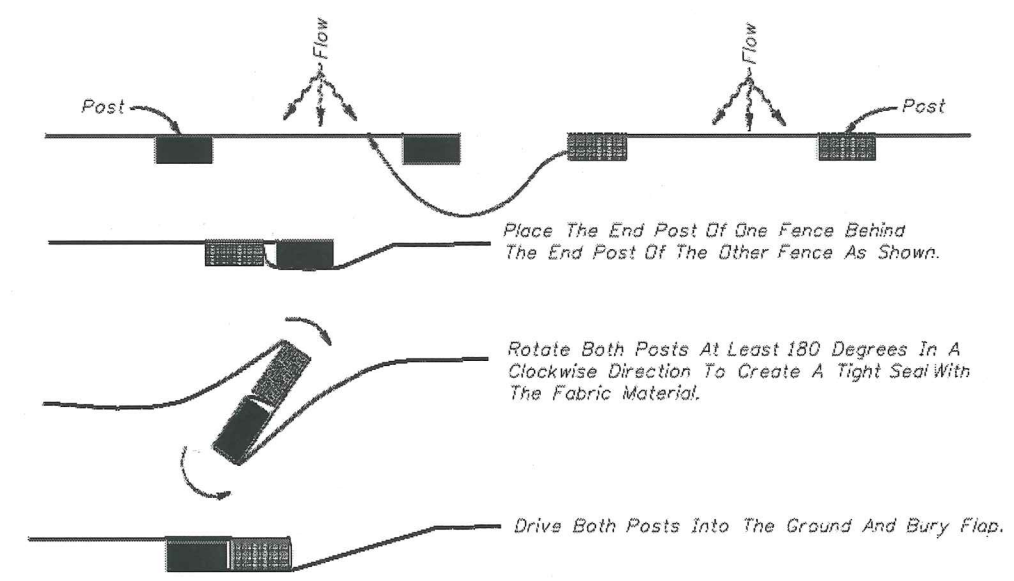
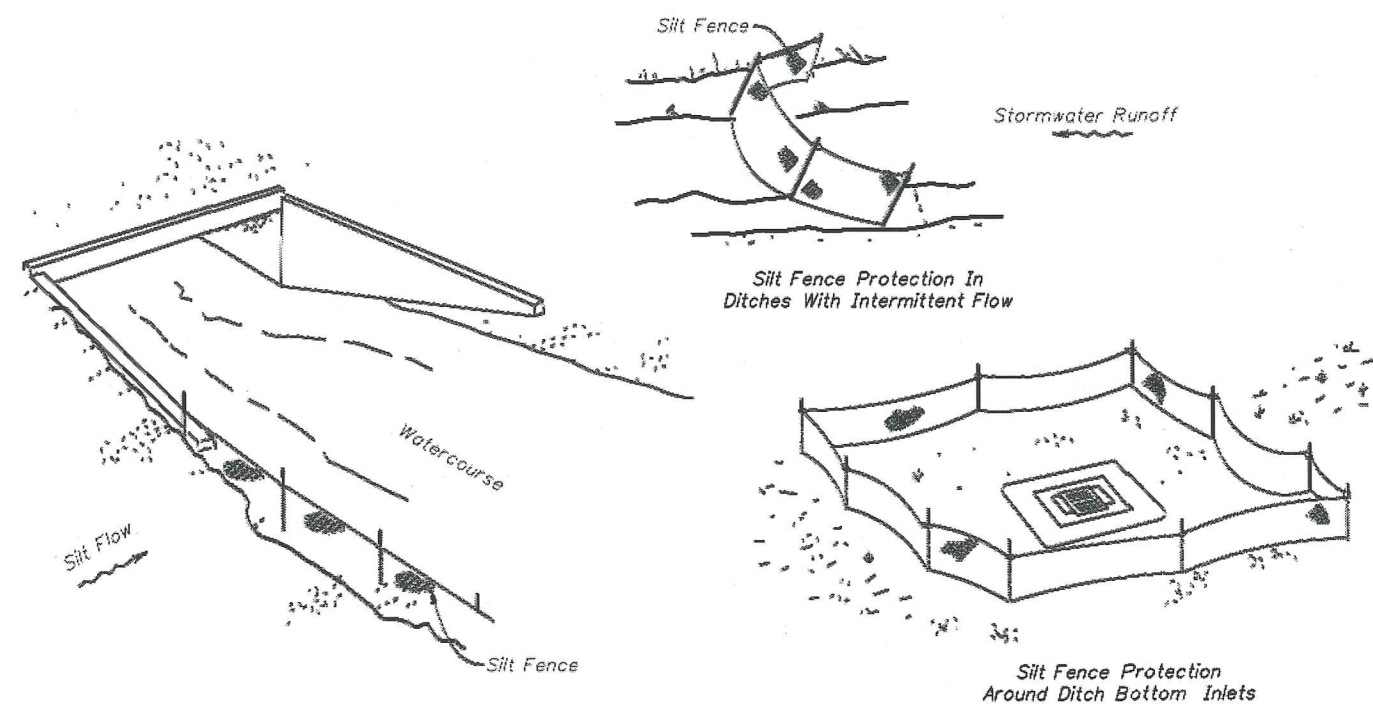
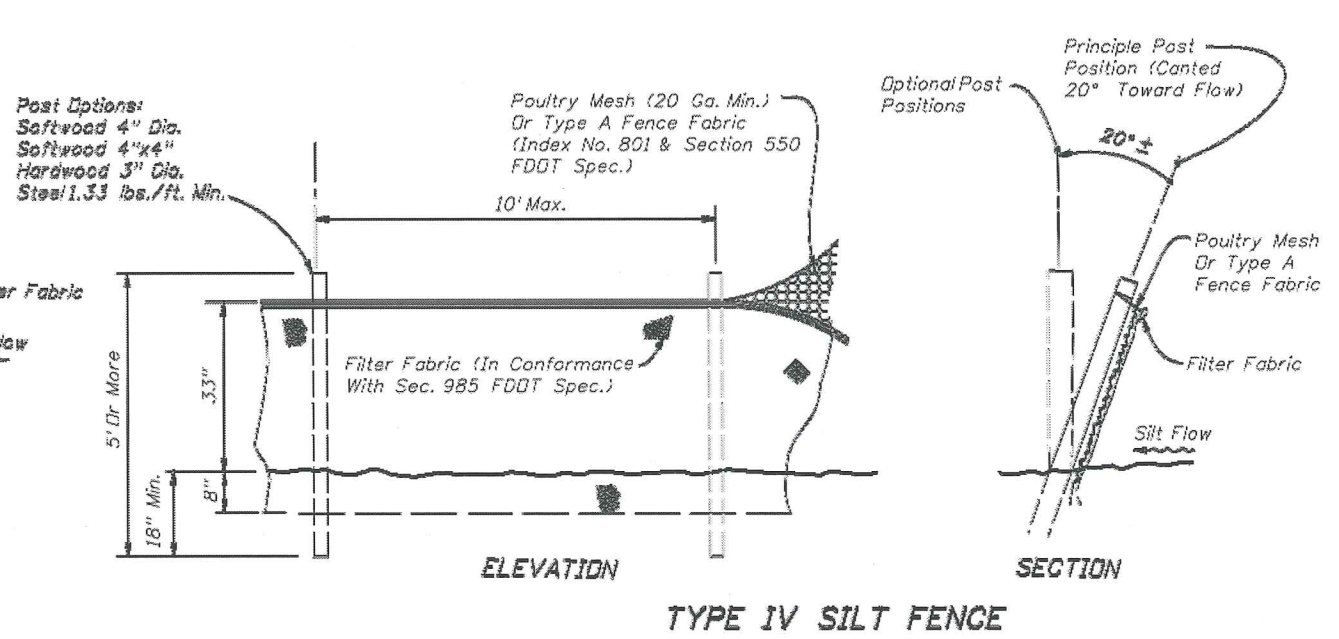
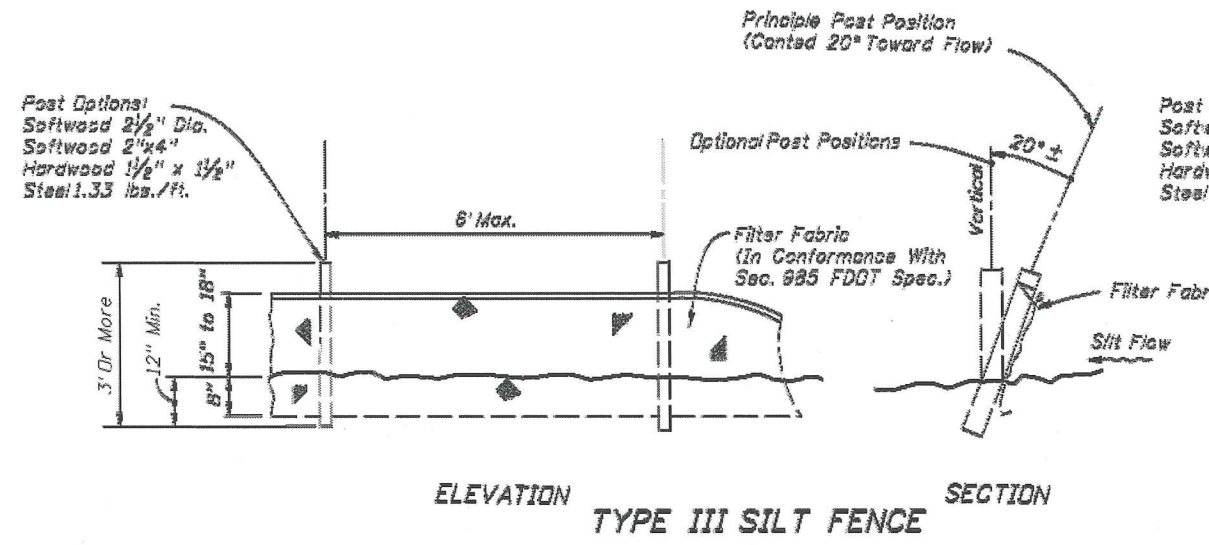
AT TOE OF SLOPE BARRIERS FOR FILL SLOPES

Contract No.: 6235-CH WA#2	Project No.: 474597
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**BEACH STREET BACKFLOW PREVENTERS
 EROSION CONTROL DETAILS
 PROJECT NO 6545-02**

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NOTES FOR SILT FENCES

1. Type III Silt Fence to be used at most locations. Where used in ditches, the spacing for Type III Silt fence shall be in accordance with Chart 1, Sheet 1.
2. Type IV Silt Fence to be used where large sediment loads are anticipated. Suggested use is where fill slope is 1:2 or steeper and length of slope exceeds 25 feet. Avoid use where the detained water may back into travel lanes or off the right of way.
3. Do not construct silt fences across permanent flowing watercourses. Silt fences are to be at upland locations and turbidity barriers used at permanent bodies of water.
4. Where used as slope protection, Silt Fence is to be constructed on 0% longitudinal grade to avoid channelizing runoff along the length of the fence.

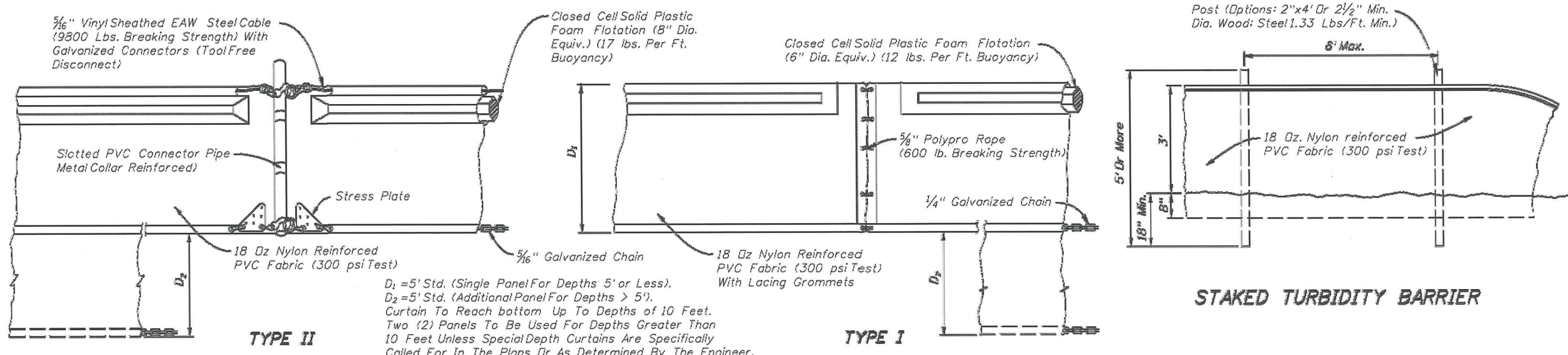


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**BEACH STREET BACKFLOW PREVENTERS
EROSION CONTROL DETAILS
PROJECT NO 6545-02**



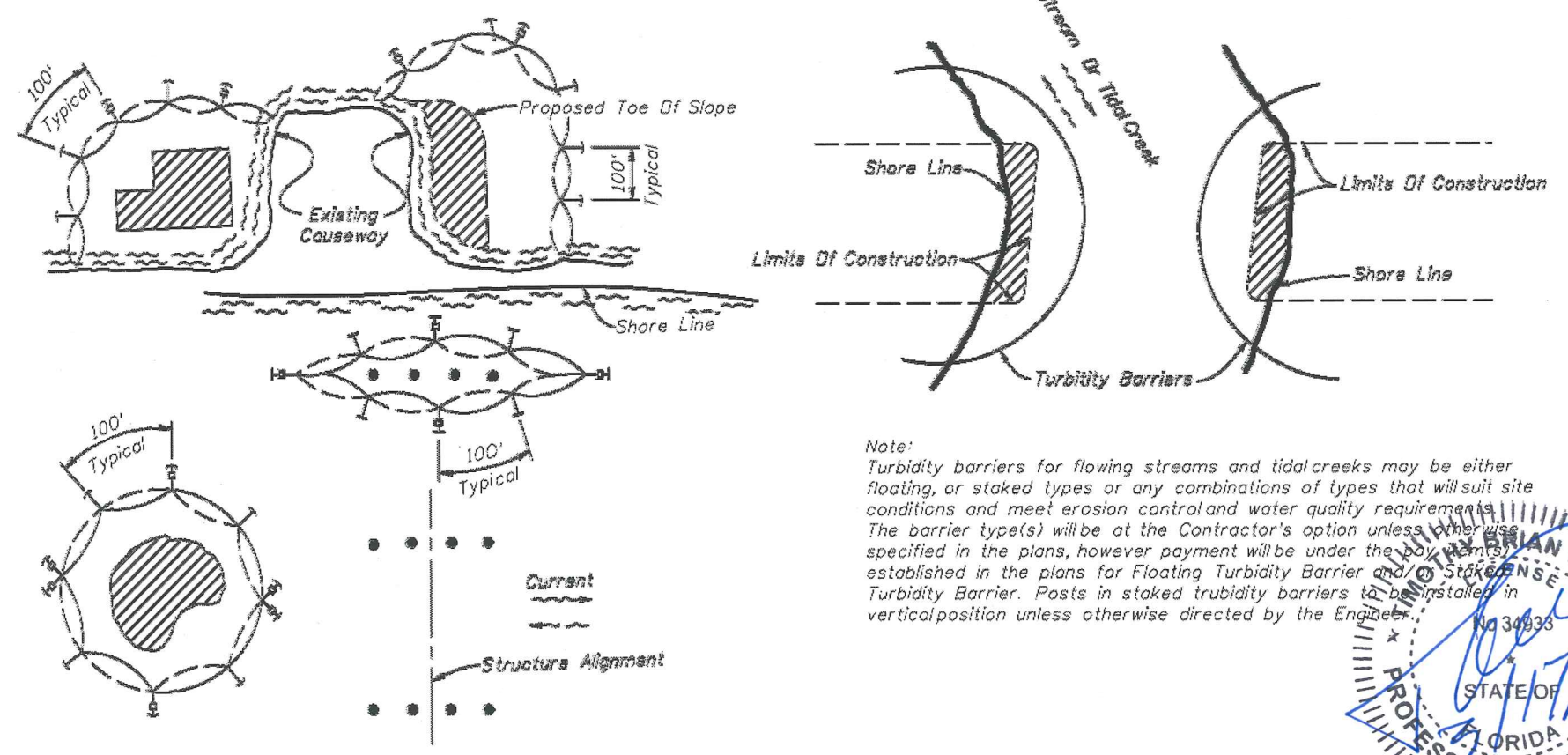
NOTICE:
COMPONENTS OF TYPES I AND II MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPES I AND II SHALL BE AS APPROVED BY THE ENGINEER.

FLOATING TURBIDITY BARRIERS

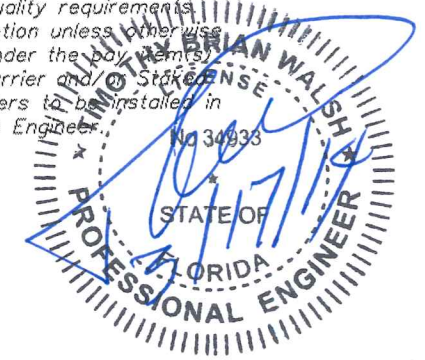
LEGEND

- Pile Locations
- ▨ Dredge Or Fill Area
- Mooring Buoy w/Anchor
- Anchor
- Barrier Movement Due To Current Action

- Notes:**
1. Turbidity barriers are to be used in all permanent bodies of water regardless of water depth.
 2. Number and spacing of anchors dependent on current velocities.
 3. Deployment of barrier around pile locations may vary to accommodate construction operations.
 4. Navigation may require segmenting barrier during construction operations.



Note:
Turbidity barriers for flowing streams and tidal creeks may be either floating, or staked types or any combinations of types that will suit site conditions and meet erosion control and water quality requirements. The barrier type(s) will be at the Contractor's option unless otherwise specified in the plans, however payment will be under the pay items established in the plans for Floating Turbidity Barrier and Staked Turbidity Barrier. Posts in staked turbidity barriers to be installed in vertical position unless otherwise directed by the Engineer.



TURBIDITY BARRIER APPLICATIONS

Contract No.: 6235-CH WA#2		Project No.: 474597		CH2MHILL. 225 EAST ROBINSON STREET, SUITE 505 ORLANDO, FLORIDA 32801 FLORIDA LICENSE NO. 000072 TIMOTHY B. WALSH, P.E. FL. REG. NO. 34933	BEACH STREET BACKFLOW PREVENTERS EROSION CONTROL DETAILS PROJECT NO 6545-02	SCHMITT 21 of 21 SCHMITT-6
Survey Date: XXXXXX		Design Date:				
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