

MANATEE COUNTY, FLORIDA

MARS

COUNTRY MEADOWS DRY LINE CONNECTION

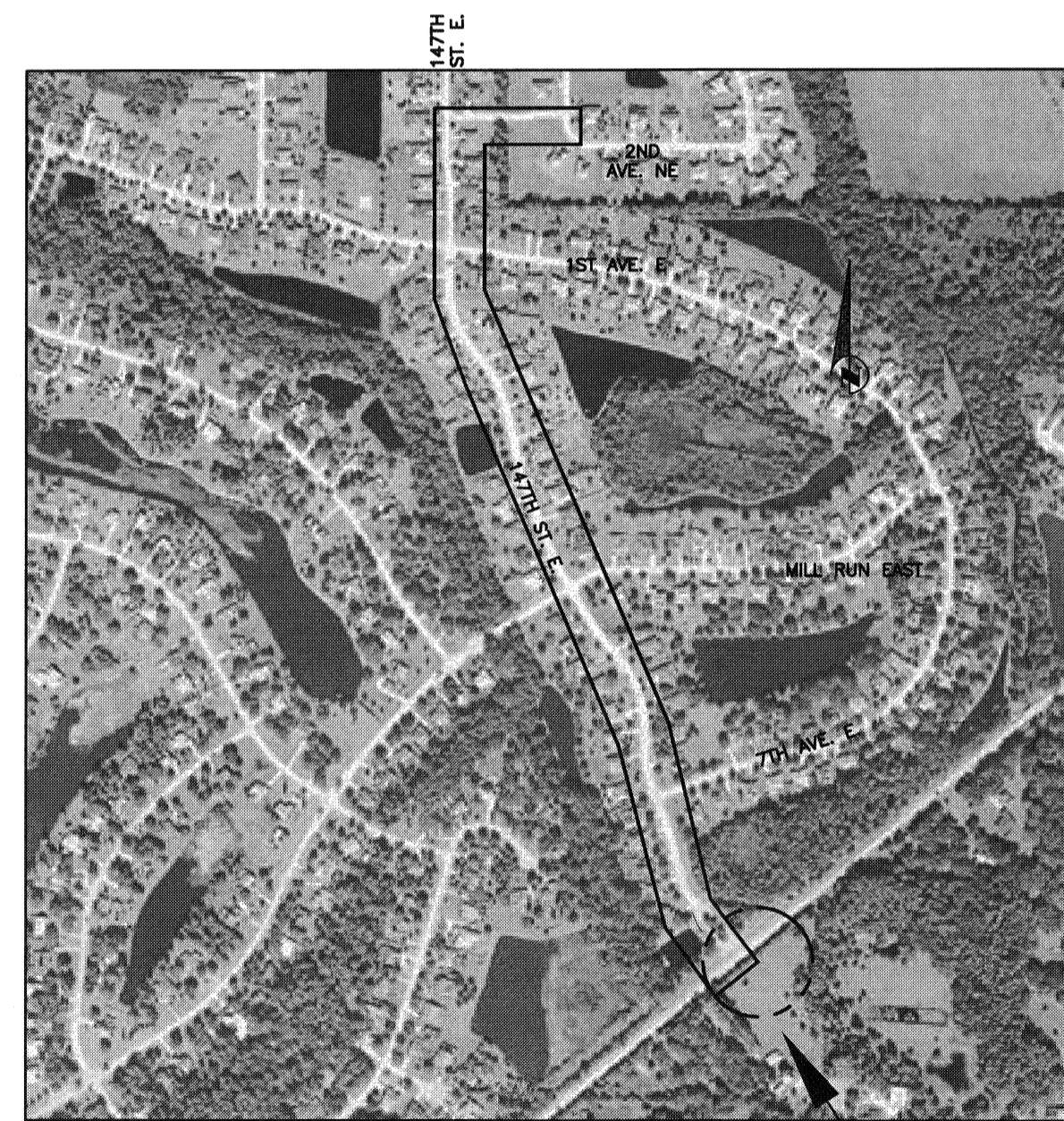
404-6082090

SEPTEMBER 2012

MARS
COUNTRY MEADOWS DRY
LINE CONNECTION
COVER SHEET

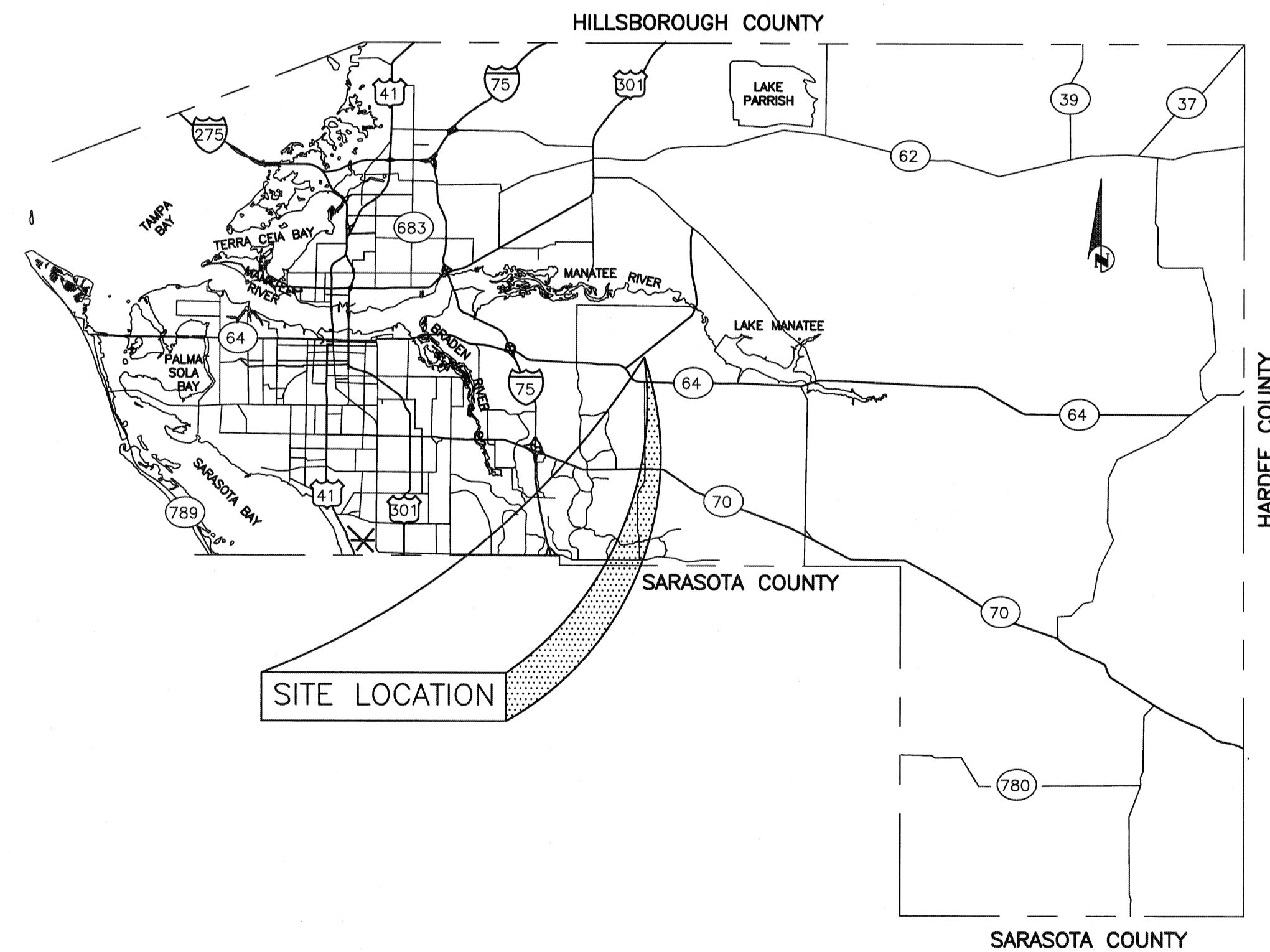
BID DOCUMENTS

NO.	INDEX OF SHEETS
1	COVER SHEET
2	GENERAL NOTES & LEGEND
3-10	PLAN & PROFILE
11-12	DETAILS
13	EROSION CONTROL



VICINITY MAP
N.T.S.

PROJECT SITE



SITE LOCATION

PROJECT DESCRIPTION

EXTEND EXISTING RECLAIMED WATER MAIN FROM RYE ROAD ALONG 147TH ST. E. TO 2ND AVE. N.E. AND CONNECT TO DRY LINE SYSTEM IN COUNTRY MEADOWS SUBDIVISION.

FUNDED BY:

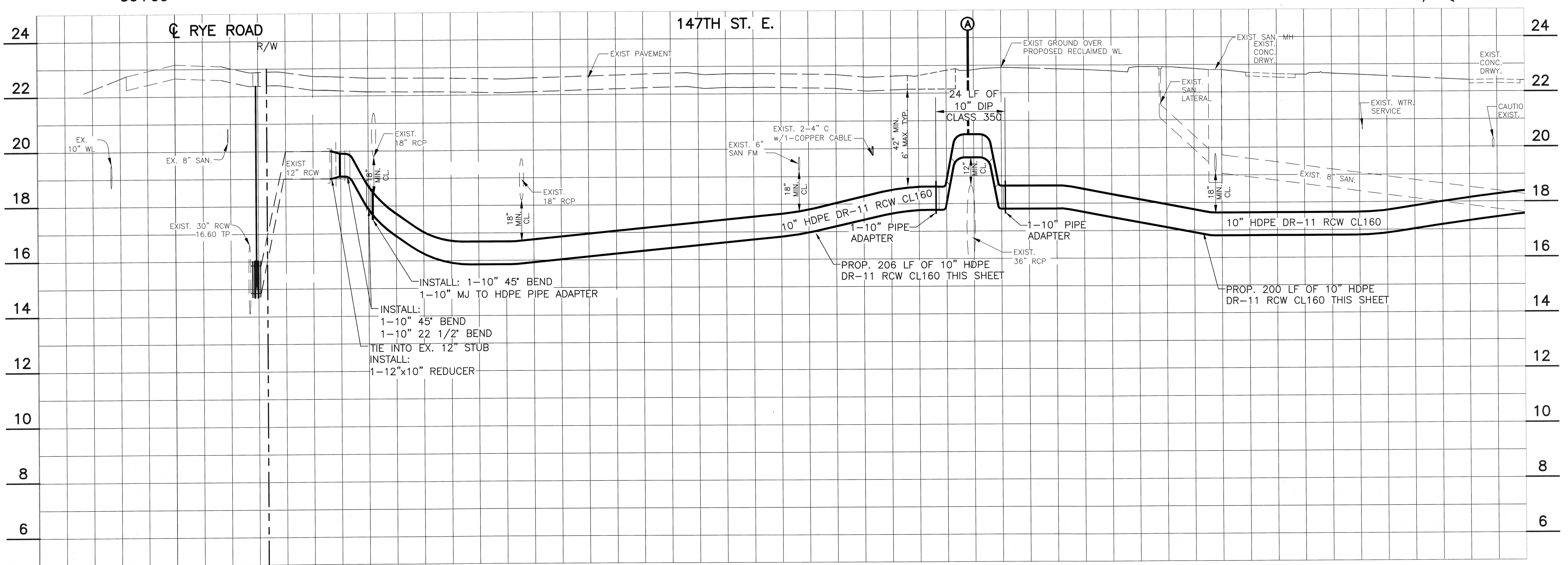
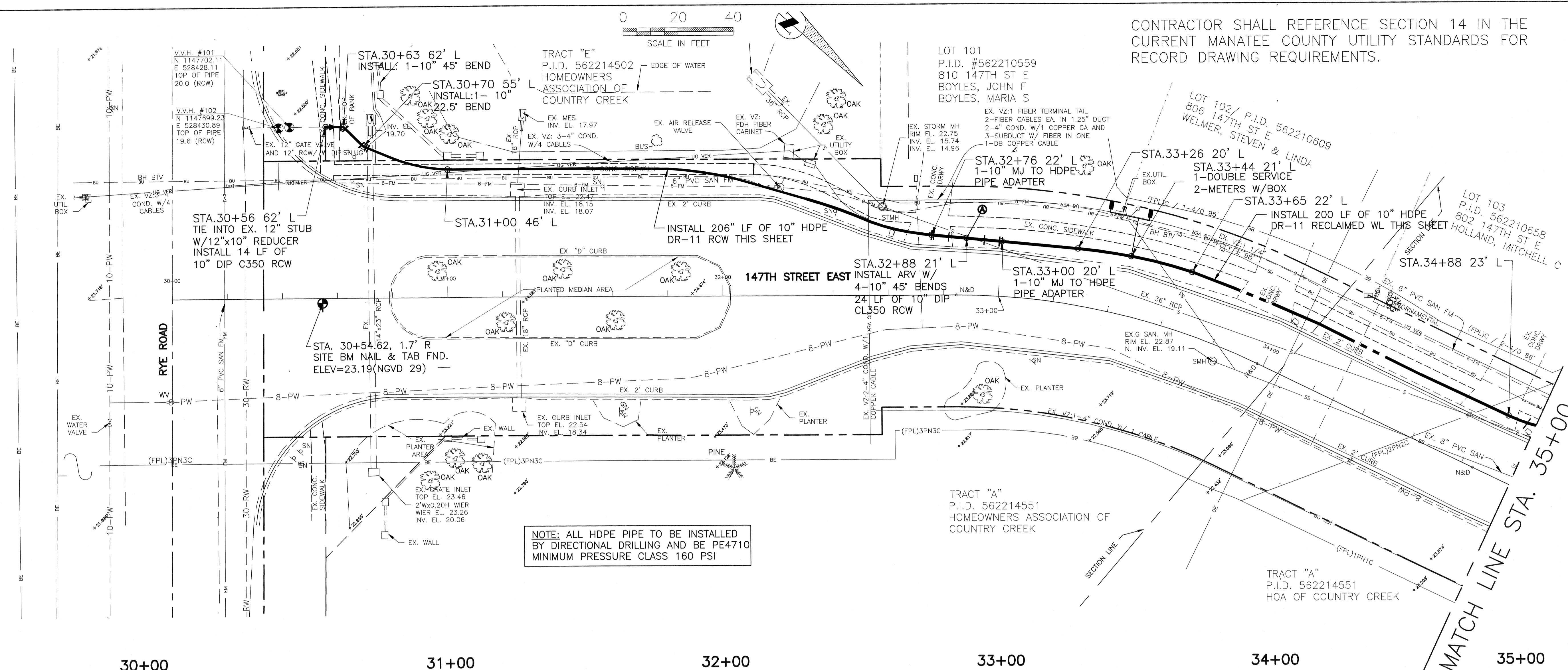
SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
AND MANATEE COUNTY
PER AGREEMENT NO. 12C00000052

MANATEE COUNTY COUNTRY MEADOWS RECLAIMED
WATER TRANSMISSION PROJECT
(N344)/404-6082090

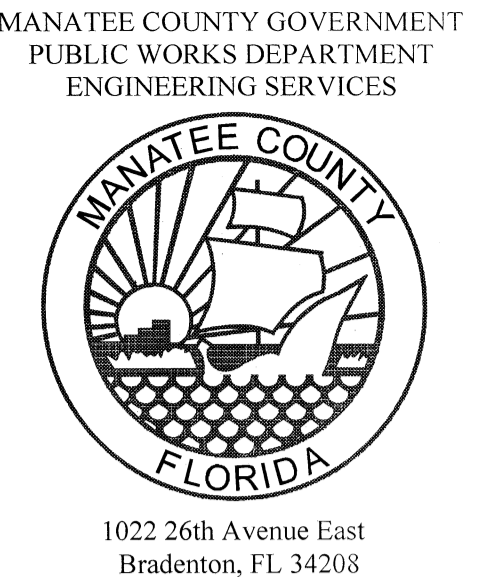
NO.	REVISION DESCRIPTION	BY	DATE

PROJECT #	404-6082090
SURVEY #	??
SEC./TWN./RGE	27/34S/19E
SCALE	1"=20'
	BY DATE
SURVEYED	GFY 05/07/12
DESIGNED	JDS 5/24/2012
DRAWN	CB 5/24/2012
CHECKED	----- 5/31/2012

Signature & Date



CONTRACTOR SHALL REFERENCE SECTION 14 IN THE CURRENT MANATEE COUNTY UTILITY STANDARDS FOR RECORD DRAWING REQUIREMENTS.



MARS COUNTRY MEADOWS DRY LINE CONNECTION

PLAN & PROFILE STA. 29+00 TO 35+00

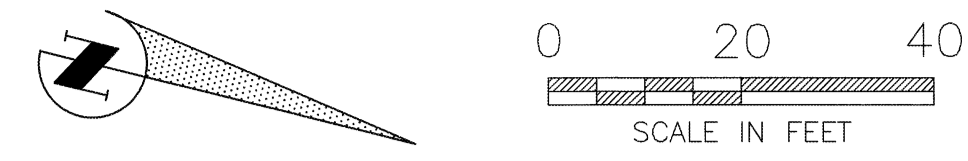
NO.	REVISION DESCRIPTION	BY	DATE

PROJECT #	404-6082090
SURVEY #	??
SEC./TWN./RGE	27/34S/19E
SCALE	1"=20'
SURVEYED	GFY 05/07/12
DESIGNED	JDS 5/24/2012
DRAWN	CB 5/24/2012
CHECKED	----- 5/31/2012

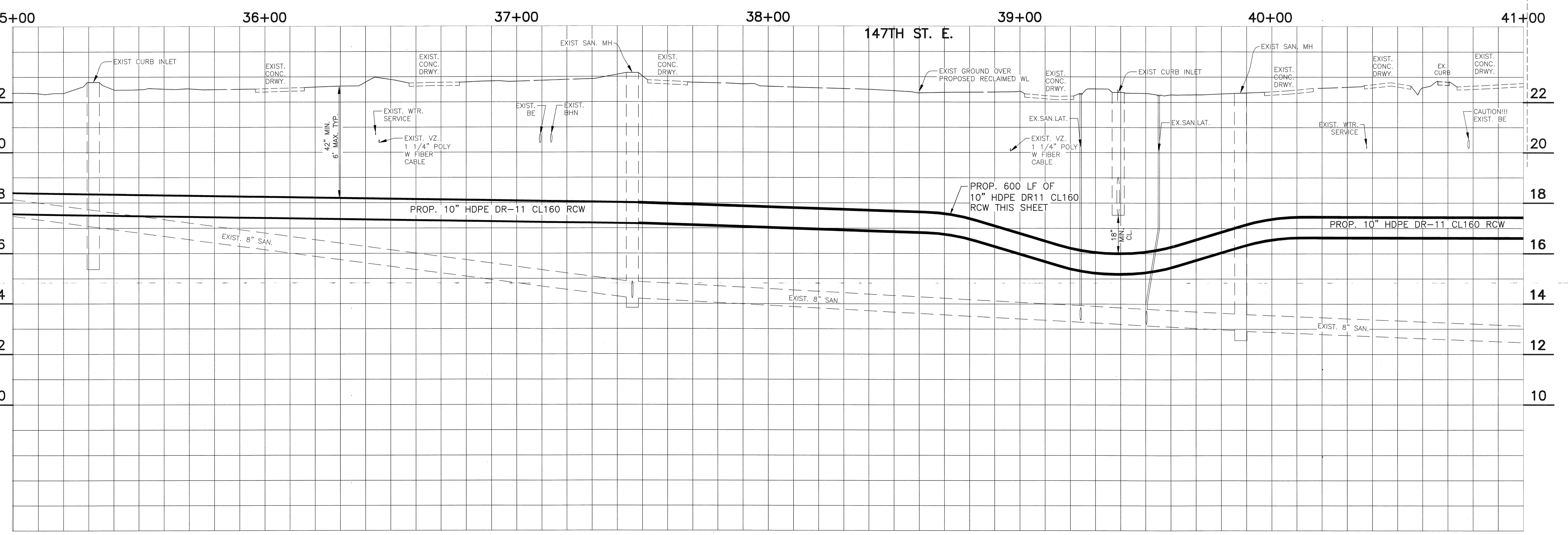
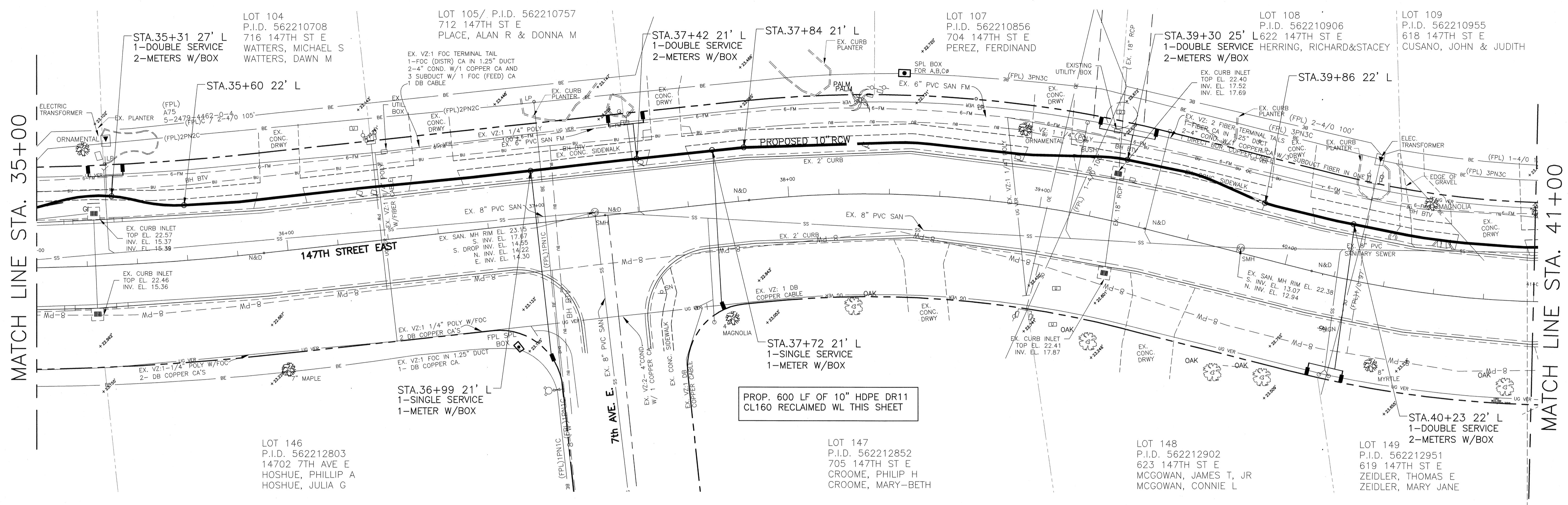
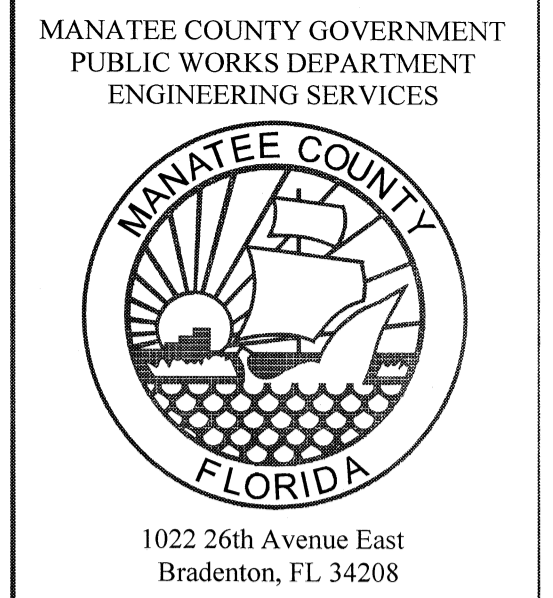
JAMES H. DOWD, P.E.

REGISTERED PROFESSIONAL ENGINEER
No. 68265
State of Florida

Date



CONTRACTOR SHALL REFERENCE SECTION 14 IN THE CURRENT MANATEE COUNTY UTILITY STANDARDS FOR RECORD DRAWING REQUIREMENTS.



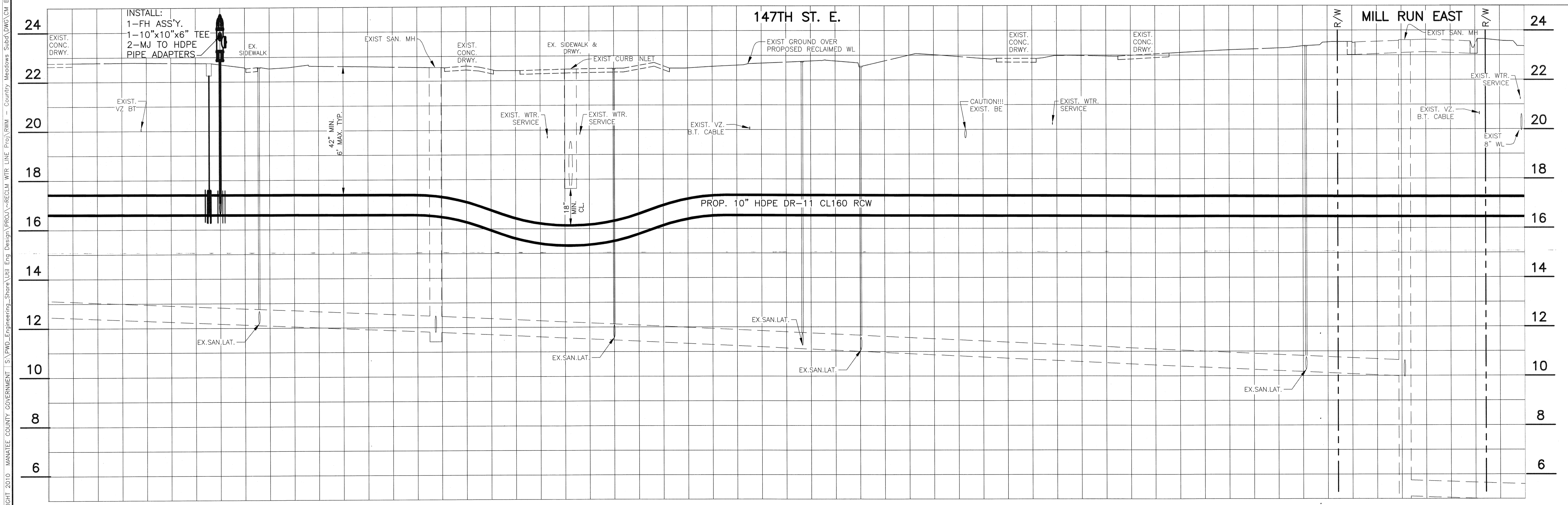
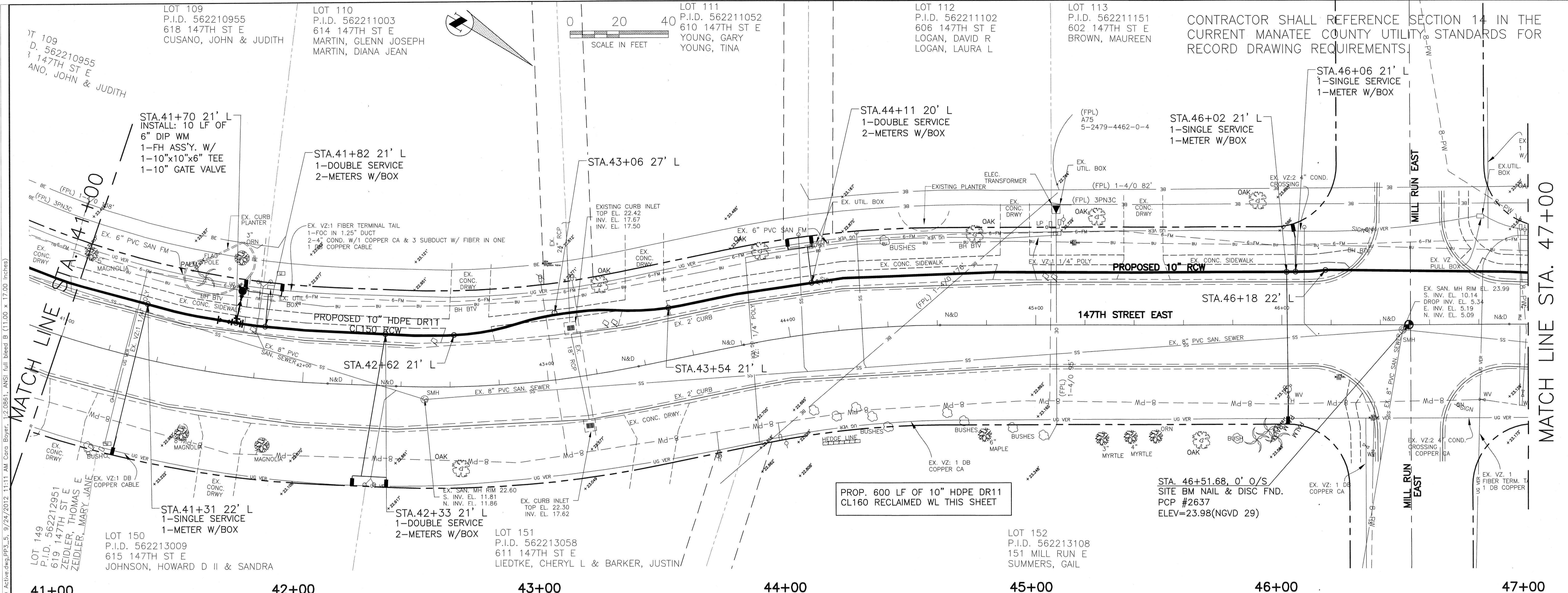
MARS
COUNTRY MEADOWS
DRY LINE
CONNECTION
PLAN & PROFILE STA. 35+00 TO 41+00

NO.	REVISION DESCRIPTION	BY	DATE

PROJECT #	404-6082090
SURVEY #	??
SEC./TWN./RGE	27/34S/19E
SCALE	1"=20'
SURVEYED	BY GY DATE 05/07/12
DESIGNED	JDS 5/24/2012
DRAWN	CB 5/24/2012
CHECKED	5/31/2012

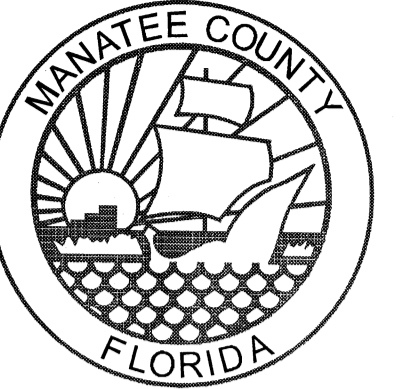
JAMES STOCKWELL, P.E.
 67198
 PROFESSIONAL ENGINEER
 STATE OF FLORIDA
 No. 788
 Exp. 12/31/18

**MARS
COUNTRY MEADOWS DRY
LINE CONNECTION
PLAN & PROFILE STA. 41+00 TO 47+00**

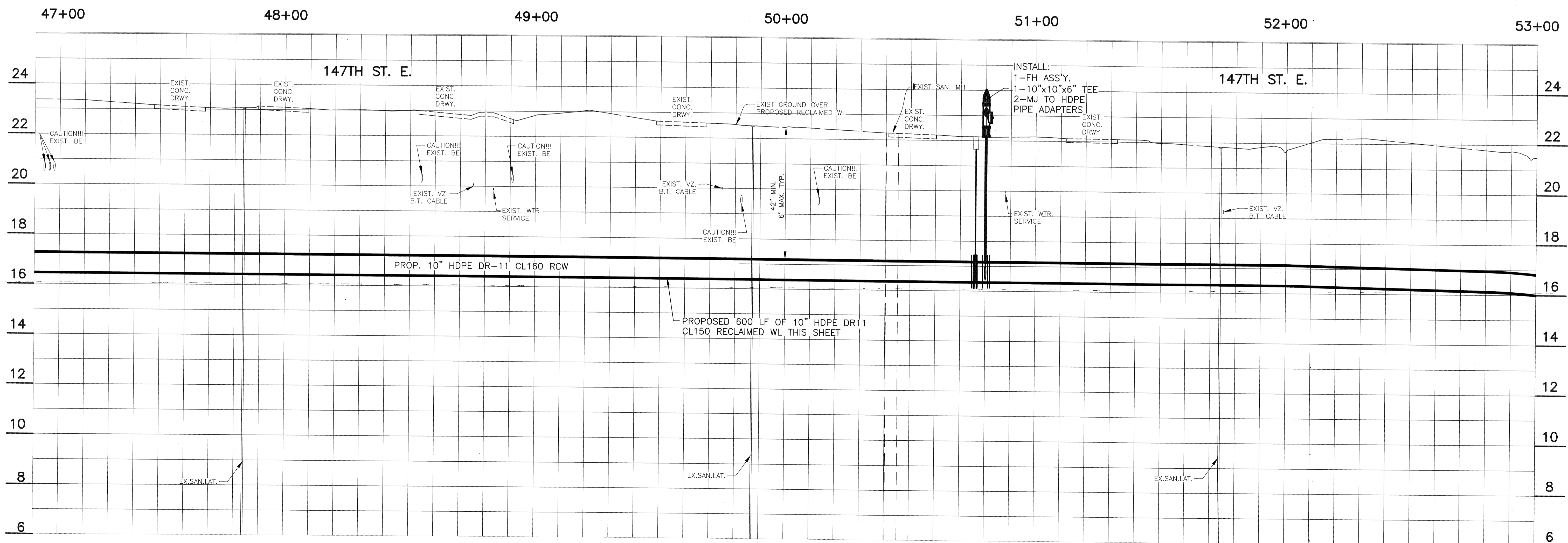
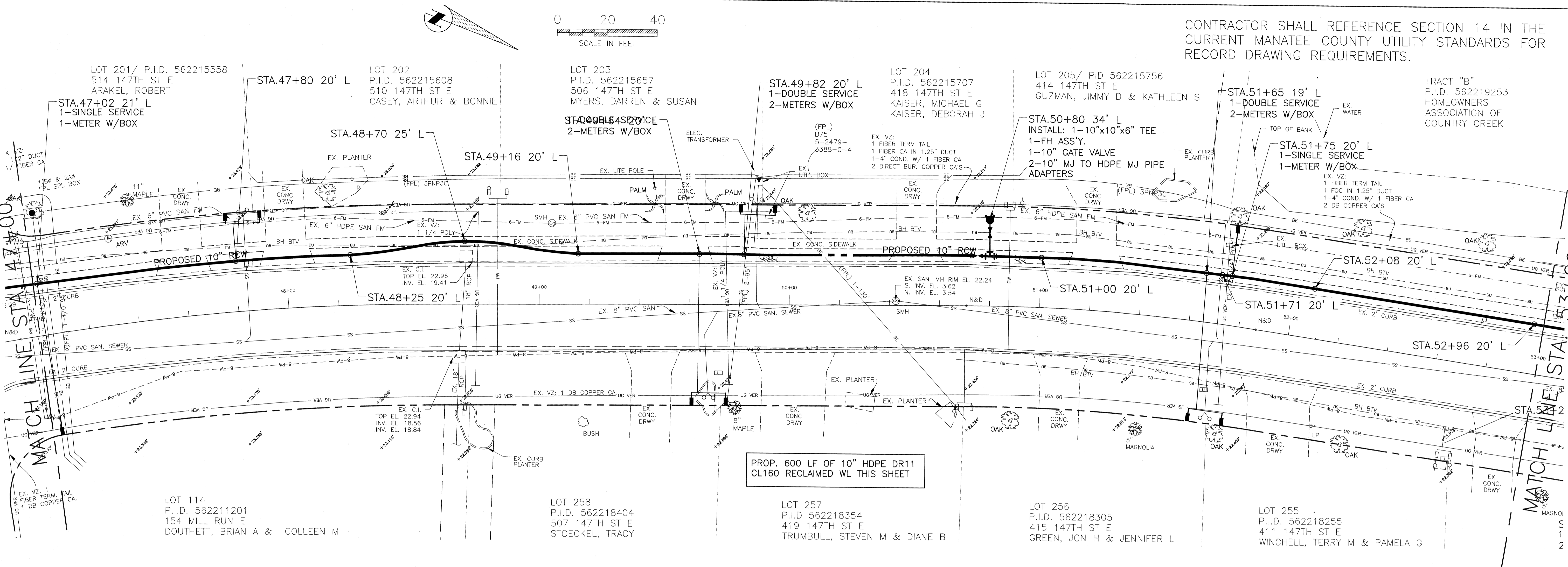


COPYRIGHT 2010 MANATEE COUNTY GOVERNMENT I:\S:\PMD_Engineering_Share\Uti_Eng_Design\PROJ-RECLM WTR LINE Proj\DWG - Country Meadows Subst\DWG\CK_BID_Active.dwg,PP3_5_9/24/2012 11:11 AM Cora Boyer, L2 DBE1, ANSI full bleed B (11.00 x 17.00 inches)

NO.	REVISION DESCRIPTION	BY	DATE
PROJECT #	404-6082090		
SURVEY #	??		
SEC./TWN./RGE	27/34S/19E		
SCALE	1"=20'		
SURVEYED	GFY 05/07/12		
DESIGNED	JDS 5/24/2012		
DRAWN	CB 5/24/2012		
CHECKED	----- 5/31/2012		
JAMES STOCKWELL, P.E. No. 97346 State of Florida Professional Engineer Signature: _____ Date: _____			



CONTRACTOR SHALL REFERENCE SECTION 14 IN THE
CURRENT MANATEE COUNTY UTILITY STANDARDS FOR
RECORD DRAWING REQUIREMENTS.



**MARS
COUNTRY MEADOWS
DRY LINE
CONNECTION
PLAN & PROFILE STA. 47+00 TO 53+00**

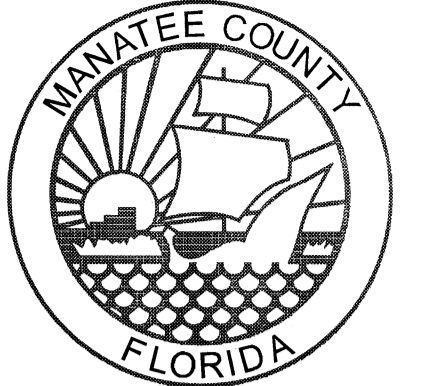
NO.	REVISION DESCRIPTION	BY	DATE

PROJECT #	404-6082090
SURVEY #	??
SEC./TWN./RGE	27/34S/19E
SCALE	1"=20'
SURVEYED	GFY 05/07/12
DESIGNED	JDS 5/24/2012
DRAWN	CB 5/24/2012
CHECKED	5/31/2012

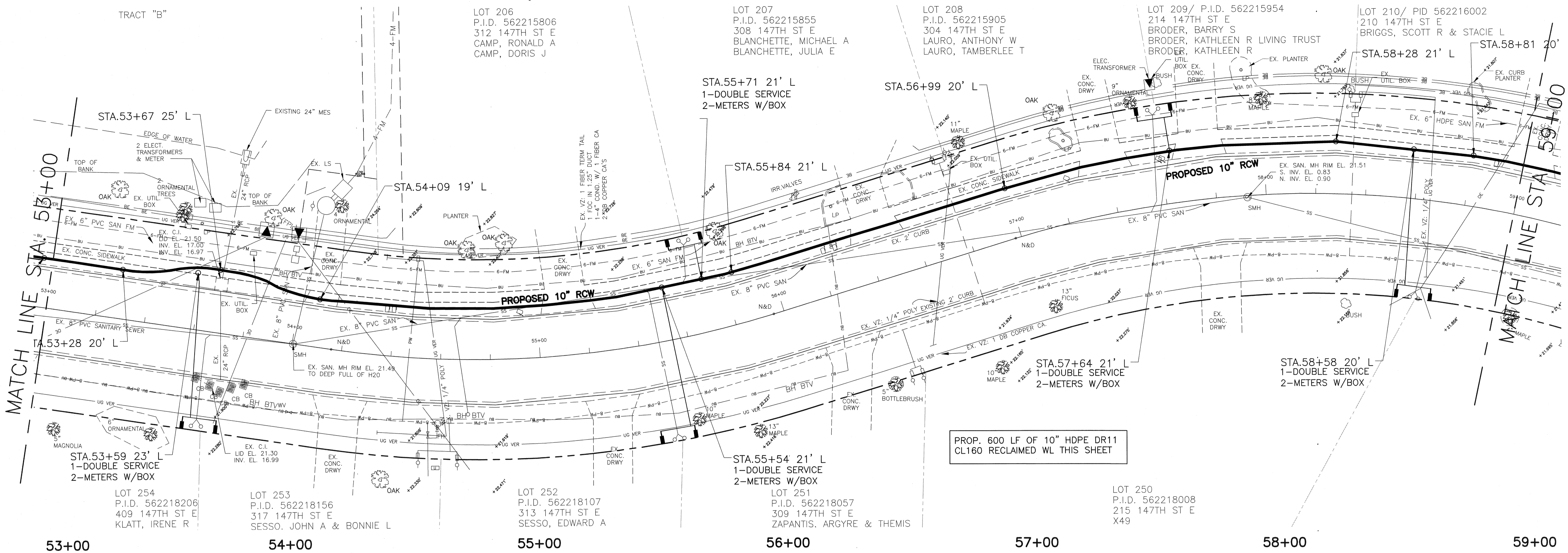
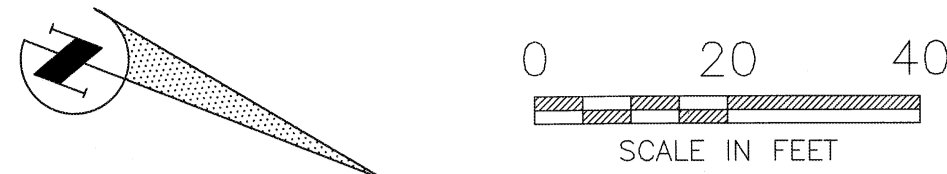
JAMES H. WELLS, P.E.
Professional Engineer
No. 67198
State of Florida
Signature & Date

CONTRACTOR SHALL REFERENCE SECTION 14 IN THE
CURRENT MANATEE COUNTY UTILITY STANDARDS FOR
RECORD DRAWING REQUIREMENTS.

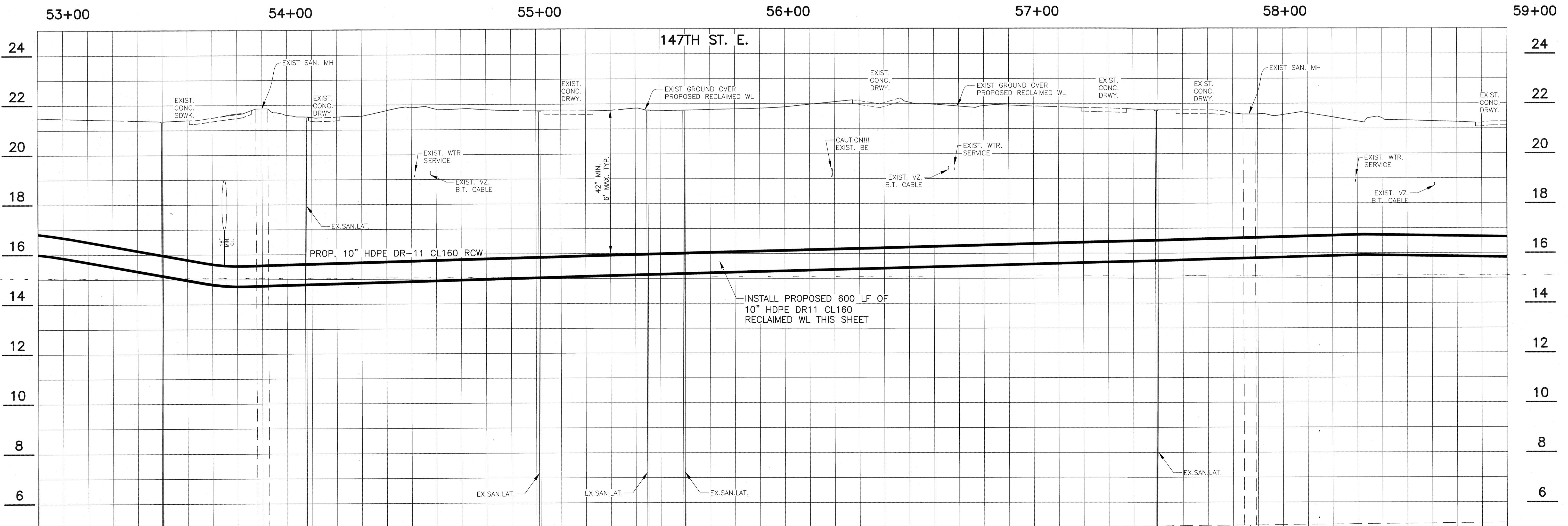
MANATEE COUNTY GOVERNMENT
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES



1022 26th Avenue East
Bradenton, FL 34208



MARS
COUNTRY MEADOWS
DRY LINE CONNECTION
PLAN & PROFILE STA. 53+00 TO 59+00



NO.	REVISION DESCRIPTION	BY	DATE

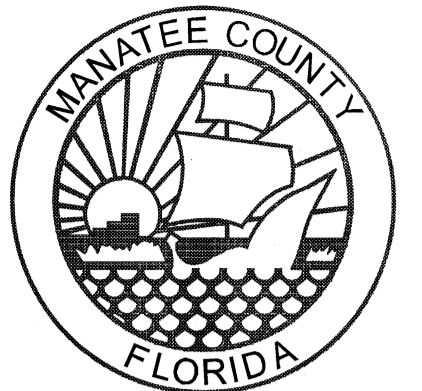
PROJECT #	404-6082090
SURVEY #	??
SEC./TWN./RGE	27/34S/19E
SCALE	1"=20'
BY	DATE
SURVEYED	GFY 05/07/12
DESIGNED	JDS 5/24/2012
DRAWN	CB 5/24/2012
CHECKED	----- 5/31/2012

JAMES STOCKWELL, P.E.
FLORIDA LICENSE NO. 67198
STATE OF FLORIDA
Professional Engineer

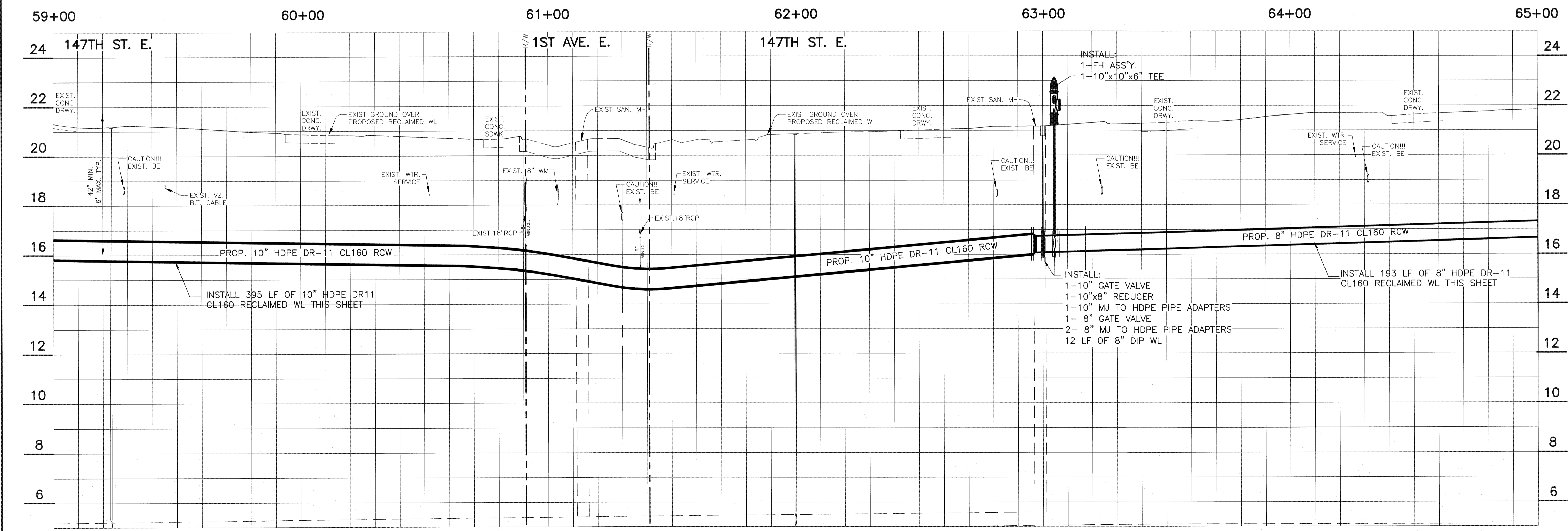
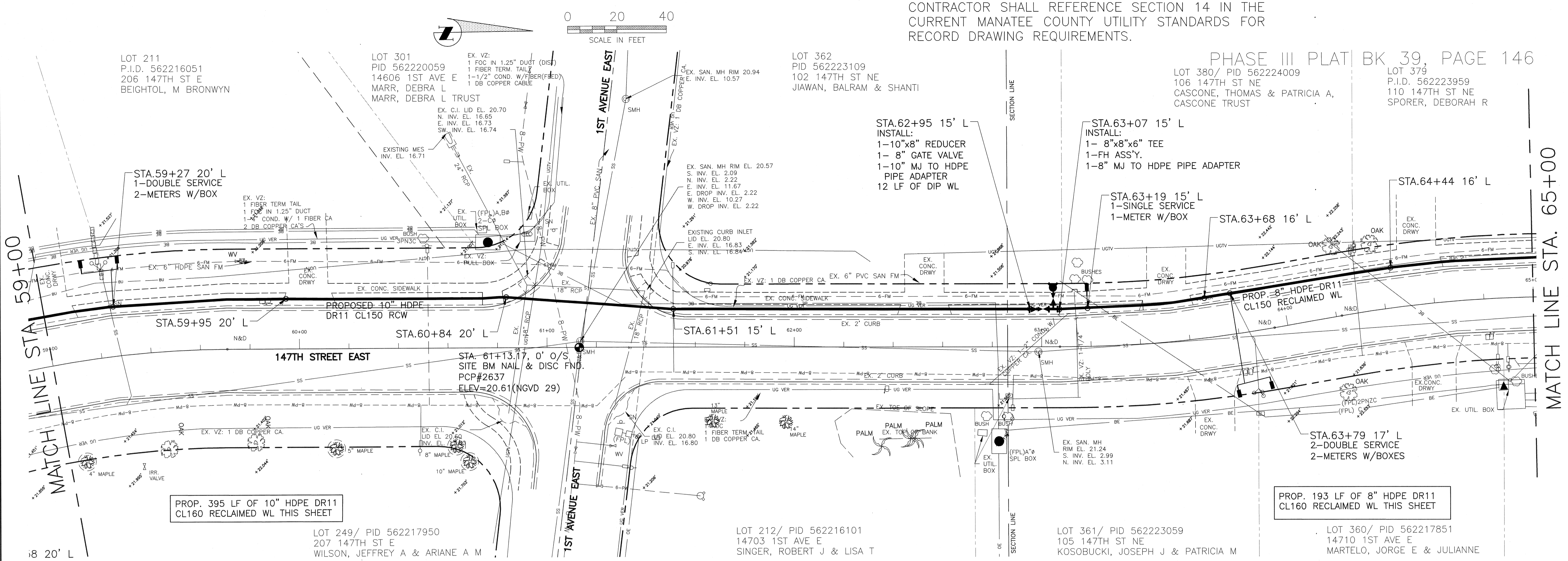
CONTRACTOR SHALL REFERENCE SECTION 14 IN THE CURRENT MANATEE COUNTY UTILITY STANDARDS FOR RECORD DRAWING REQUIREMENTS.

PHASE III PLAT BK 39, PAGE 146

MANATEE COUNTY GOVERNMENT
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES



1022 26th Avenue East
Bradenton, FL 34208

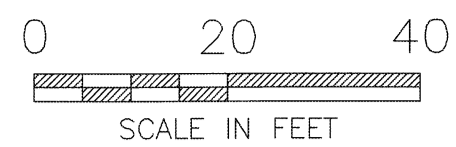
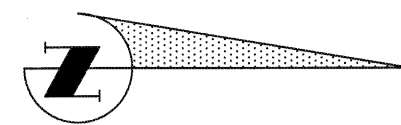


MARS
COUNTRY MEADOWS
DRY LINE CONNECTION
PLAN & PROFILE STA. 59+00 TO 65+00

NO.	REVISION DESCRIPTION	BY	DATE

PROJECT #	404-6082090
SURVEY #	??
SEC./TWN./RGE	27/34S/19E
SCALE	1"=20'
SURVEYED	GFY 05/07/12
DESIGNED	JDS 5/24/2012
DRAWN	CB 5/24/2012
CHECKED	----- 5/31/2012

JAMES STOCKWELL, P.E.
 No. 67198
 9/24/12
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER

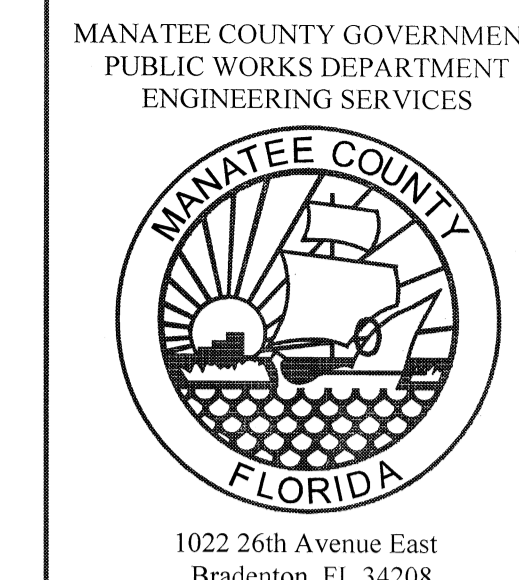


LOT 378
P.I.D. 562223909
114 147TH ST NE
SMITH, JAMES W
SMITH, HELEN A

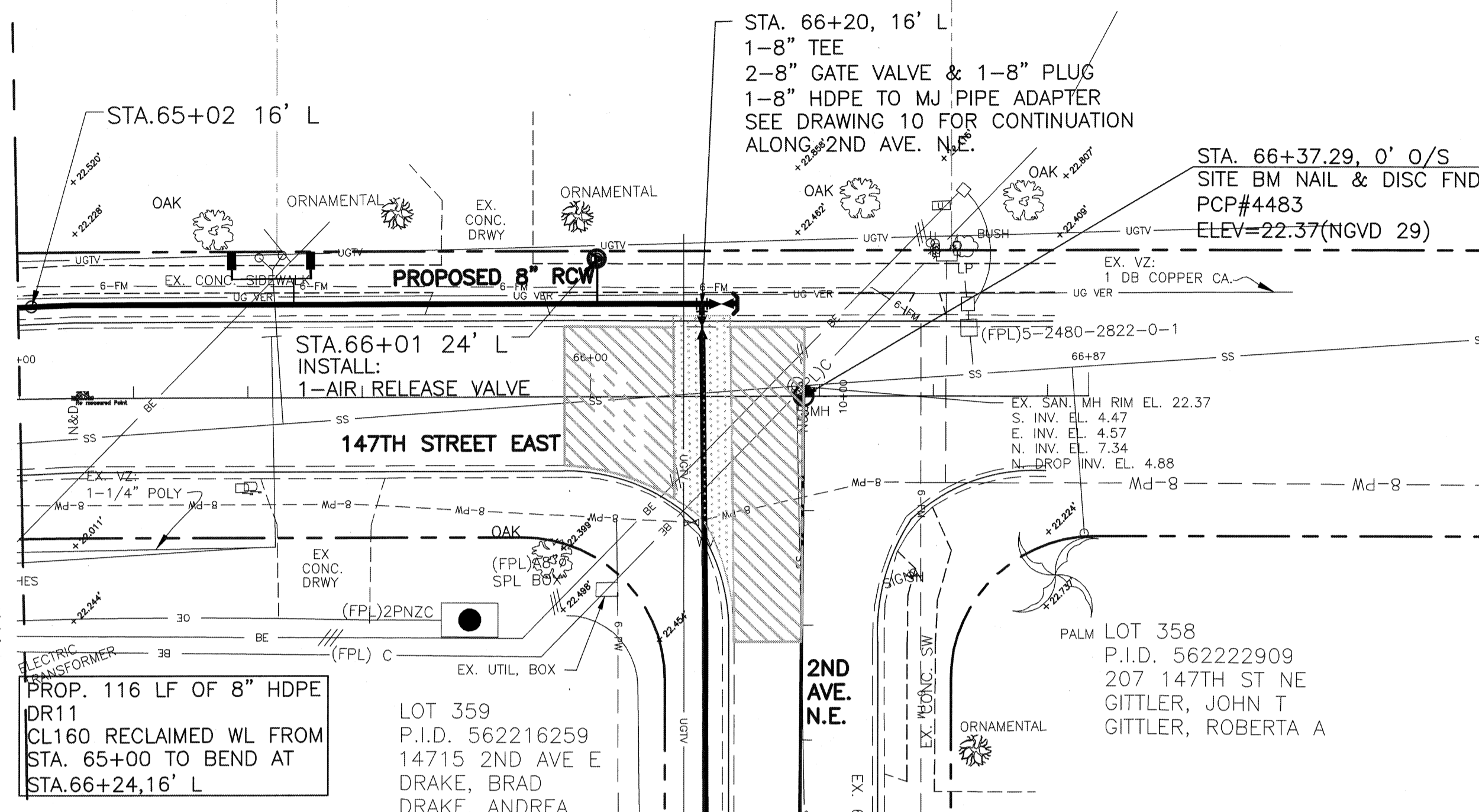
LOT 377
P.I.D. 562223859
208 147TH ST NE
ILLES, BRUCE H
ILLES, MARY JO

- BASE REPAIR
- MILL & OVERLAY 1.5"

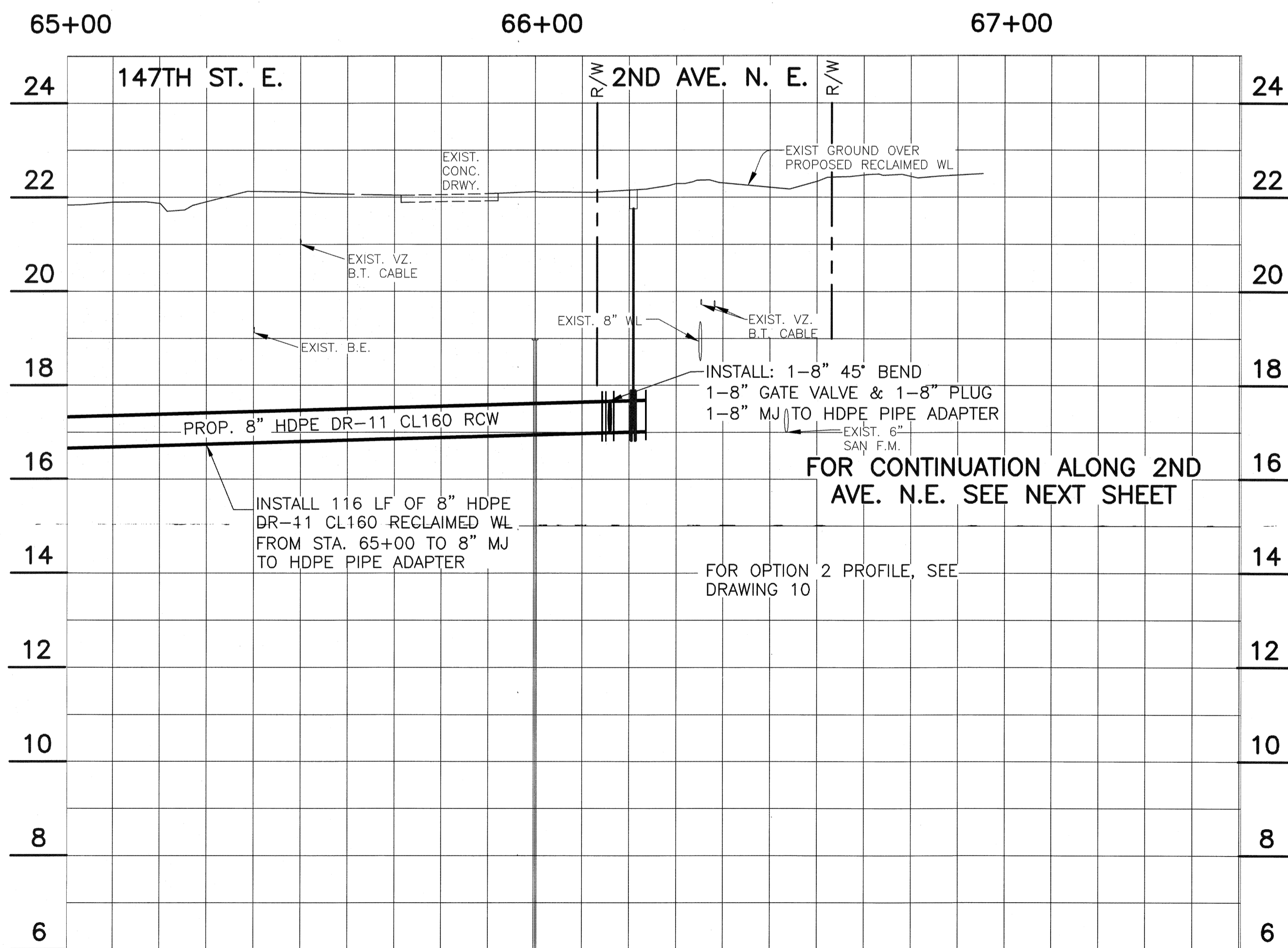
CONTRACTOR SHALL REFERENCE SECTION 14 IN THE CURRENT MANATEE COUNTY UTILITY STANDARDS FOR RECORD DRAWING REQUIREMENTS.



MATCH LINE STA. 65+00



REFER TO DRAWING 10 FOR 2ND AVE. N.E.



NOTES FROM SURVEYOR'S REPORT: FOR COMPLETE SURVEY, REQUEST FROM PROJECT ENGINEER/SURVEYOR:

1. THE SURVEY WAS PREPARED WITHOUT BENEFIT OF A CURRENT TITLE REPORT AND THEREFORE MAY NOT NECESSARILY INDICATE ALL ENCUMBRANCES AFFECTING SUBJECT PROPERTY.
2. THERE ARE NO VISIBLE ENCROACHMENTS EXCEPT AS SHOWN. FOUNDATIONS BENEATH THE SURFACE OF THE GROUND THAT MAY ENCROACH HAVE NOT BEEN LOCATED.
3. THE APPROXIMATE RIGHT-OF-WAY LINE LOCATIONS AND BOUNDARY LINES SHOWN ON THIS MAP WERE TAKEN FROM VARIOUS RECORD PLATS THAT ARE ADJACENT TO THE PROPOSED CONSTRUCTION ROUTE AND ARE ALL WITHIN THE PUBLIC RECORDS OF MANATEE COUNTY, FLORIDA.
4. THE LOCATION AND EXISTENCE OF UNDERGROUND UTILITIES AND UNDERGROUND FOUNDATIONS OR ANY OTHER PERTINENT ATTRIBUTES TO SUBJECT PROPERTY (IF ANY) NOT ABSTRACTED AS PART OF THIS SURVEY, EXCEPT AS SHOWN.
5. THIS IS NOT A BOUNDARY SURVEY OR RIGHT OF WAY SURVEY, THE PURPOSE OF THIS TOPOGRAPHIC SURVEY WAS TO SHOW THE EXISTING TOPOGRAPHIC CONDITIONS FOR DESIGN PURPOSES.
6. SUBJECT TO ALL RESTRICTIONS, RIGHTS OF WAY AND EASEMENTS OF RECORD, IF ANY.
7. REUSE OF DOCUMENTS: THIS DOCUMENT IS AN INSTRUMENT OF SERVICE IN RESPECT OF THE PROJECT TO WHICH IT APPLIES AND ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY GEORGE F. YOUNG, INC. (G.F.Y.) FOR THE SPECIFIC PURPOSES INTENDED WILL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO G.F.Y. AND USER SHALL INDEMNIFY AND HOLD HARMLESS G.F.Y. FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES INCLUDING ATTORNEYS FEES ARISING OUT OF OR RESULTING THEREFROM. ANY SUCH VERIFICATION OR ADAPTATION WILL ENTITLE G.F.Y. TO FURTHER COMPENSATION AT RATES TO BE AGREED UPON BY USER AND G.F.Y.
8. THE EASEMENTS SHOWN WERE TAKEN FROM THE RECORD DOCUMENTS, AS PROVIDED TO THE SURVEYOR.
9. ELEVATIONS SHOWN ARE RELATIVE TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD), AND WERE ESTABLISHED ON A CLOSED DIFFERENTIAL LEVEL LOOP THROUGH MANATEE COUNTY BENCH RUN No. 78. THE BENCH MARK USED WAS R-8, BEING LOCATED AT THE S.W. CORNER OF A "U" SHAPED HEADWALL, 82 FEET NORTH OF THE CENTERLINE OF A SHELL DRIVEWAY AT HOUSE #911, TWENTY SEVEN FEET EAST OF THE CENTERLINE OF RYE ROAD, PUBLISHED ELEVATION 23.65'(NGVD 29). THE COORDINATE VALUES SHOWN HEREON ARE BASED ON STATE PLANE COORDINATES, FLORIDA WEST ZONE IN U.S. SURVEY FEET, NORTH AMERICAN DATUM OF 1983 AND WERE ESTABLISHED BY GPS SURVEY.
10. CERTIFICATION IS UNDERSTOOD TO BE AN EXPRESSION OF PROFESSIONAL OPINION BY THE SURVEYOR AND MAPPER BASED ON THE SURVEYOR AND MAPPER'S KNOWLEDGE AND INFORMATION, AND THAT IT IS NOT A GUARANTEE OR WARRANTY, EXPRESSED OR IMPLIED.
11. THE DATE OF FIELD SURVEY WAS MAY 07, 2012.
12. THIS REPORT IS NOT FULL AND COMPLETE WITHOUT THE ELECTRONIC DRAWING FILE.

**MARS
COUNTRY MEADOWS DRY
LINE CONNECTION
PLAN & PROFILE STA. 65+00 TO 71+00**

NO.	REVISION DESCRIPTION	BY	DATE

PROJECT #	404-6082090
SURVEY #	??
SEC./TWN./RGE	27/34S/19E
SCALE	1"=20'
SURVEYED	GFY 05/07/12
DESIGNED	JDS 5/24/2012
DRAWN	CB 5/24/2012
CHECKED	----- 5/31/2012

JAMES STOCKWELL, P.E.
FLORIDA P.E. # 67198

COPYRIGHT 2010 MANATEE COUNTY GOVERNMENT | S:\PMD_Engineering\Share\Util_Eng_Design\PROJ\RECLAM\WTR LINE_Proj\WMM - Country Meadows Subd\DWG\OM_BID_Active.dwg,PP2_30_9/24/2012 11:11 AM Cara Boyer, 1:2 DBE1, ANSI full bleed B (11.00 x 17.00 inches)

FOR 147TH ST. EAST, REFER TO DRAWING 9

LOT 377
P.I.D. 562223859
208 147TH ST NE
ILLES, BRUCE H
ILLES, MARY JO

LOT 378
P.I.D. 562223909
114 147TH ST NE
SMITH, JAMES W
SMITH, HELEN A

LOT 358
P.I.D. 562222909
207 147TH ST NE
GITTLER, JOHN T
GITTLER, ROBERTA A

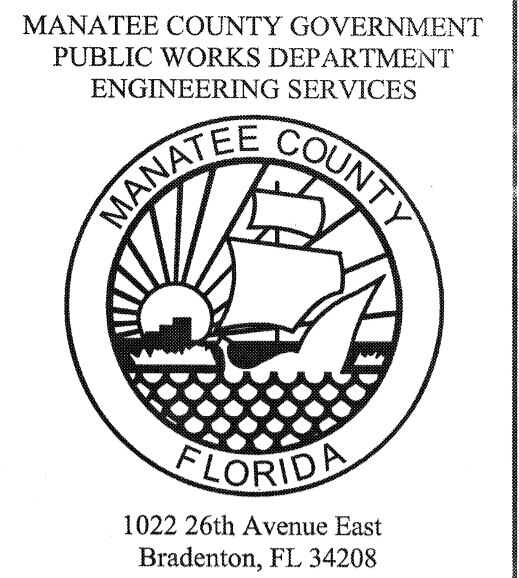
LOT 1083
P.I.D. 556305159
14715 2ND AVE CIR NE
AL-SUFFI, KIMBERLY MARIE

LOT 1082
P.I.D. 556305109
14719 2ND AVE CIR NE
GIGNAC, KELLY C

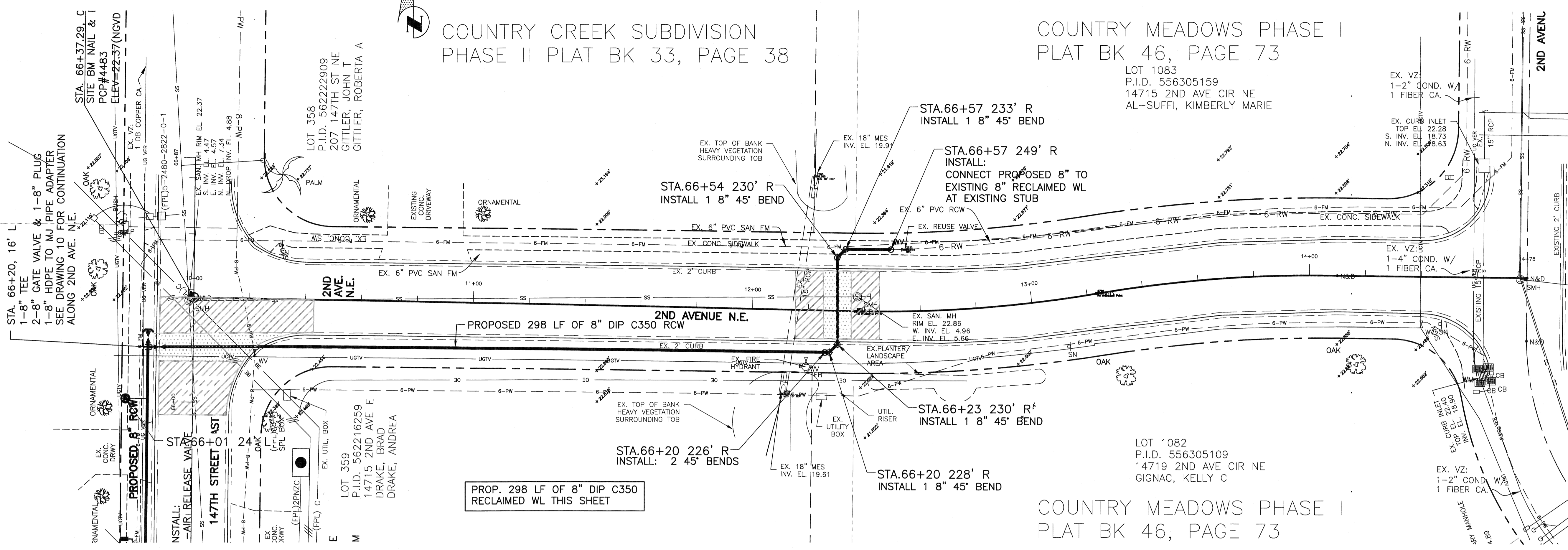
BASE REPAIR
MILL & OVERLAY 1.5"

0 20 40
SCALE IN FEET

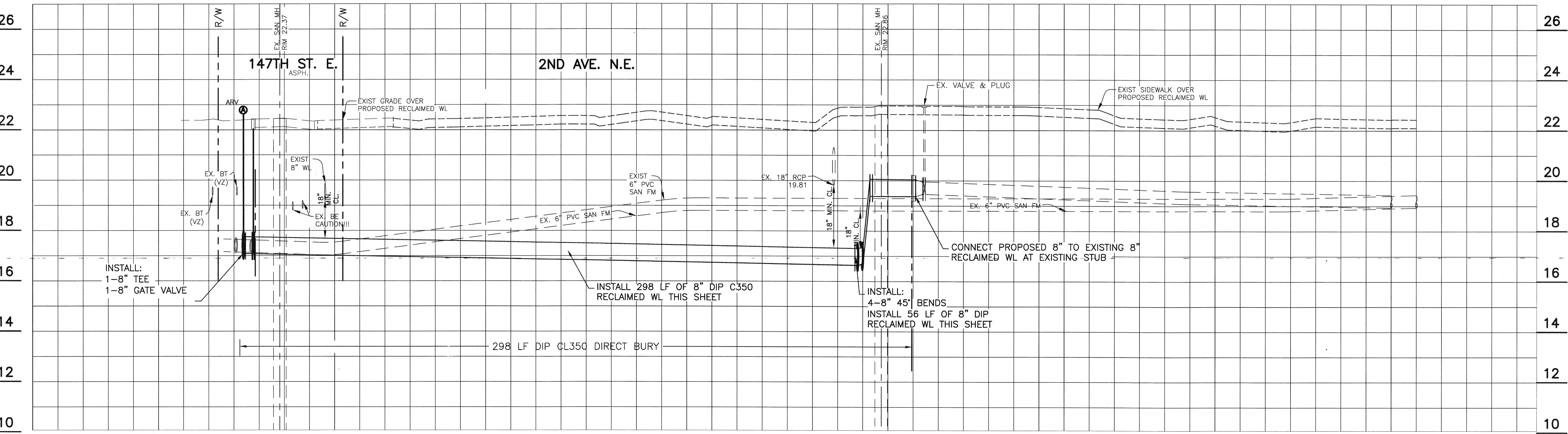
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MARS LINE
COUNTRY MEADOWS
SUBDIVISION
PLAN & PROFILE STA. 9+50 TO 14+78



9+00 10+00 11+00 12+00 13+00 14+00 15+00

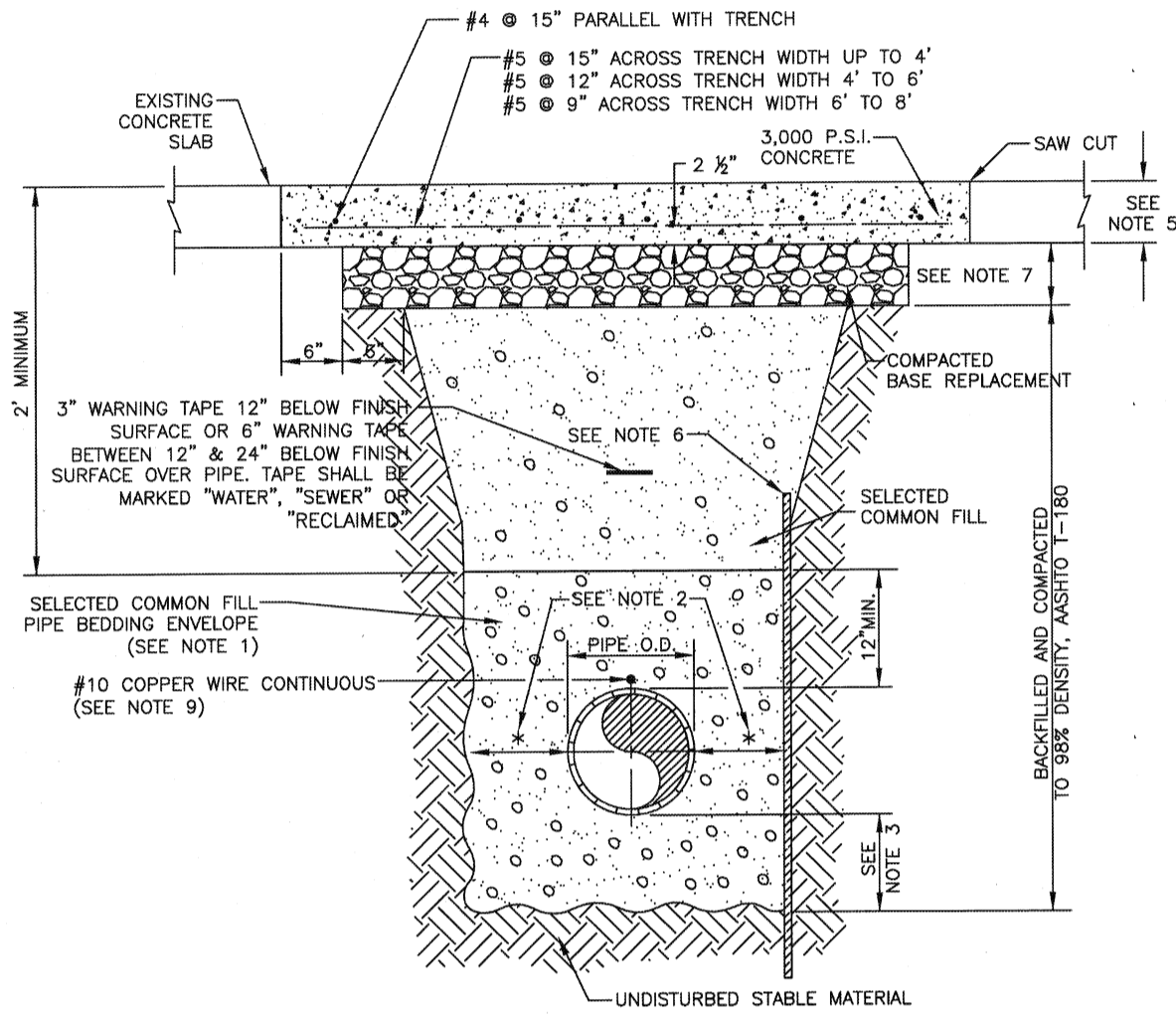


NO.	REVISION DESCRIPTION	BY	DATE

PROJECT #	404-6082090
SURVEY #	??
SEC./TWN./RGE	27/34S/19E
SCALE	1"=20'
SURVEYED	GFY 05/07/12
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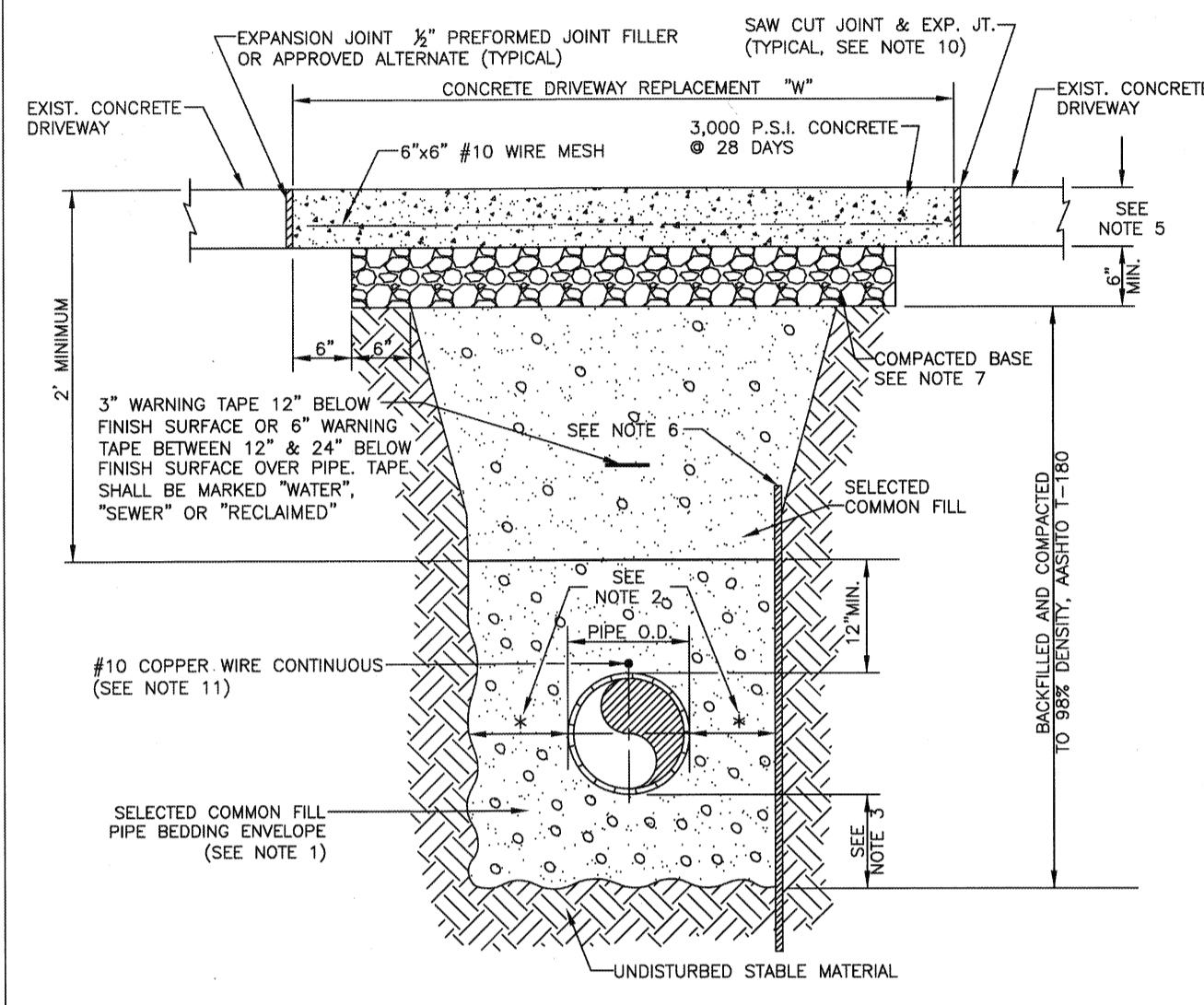
JAMES STOCKWELL, P.E.
FLORIDA PROFESSIONAL ENGINEER NO. 67198
DATE

- NOTES:**
- USE OF TYPE A-2 AND A-3 PIPE BEDDING TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
 - PROVIDE ADEQUATE CLEARANCE TO PLACE AND COMPACT STAGE 1 BEDDING MATERIAL IN TRENCH AREA BELOW PIPE SPRINGLINE. PIPE EMBEDMENT MUST BE COMPACTED OUT TO THE TRENCH WALL OR 2.5 TIMES THE PIPE OD, WHICHEVER IS LESS.
 - TYPICALLY 4" TO 6".
 - PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
 - THICKNESS TO MATCH EXISTING OR BE 8" MINIMUM, WHICHEVER IS GREATER.
 - SHEETING ORDERED LEFT IN PLACE TO BE CUT OFF 24" BELOW FINISHED GRADE OR 12" BELOW SUBGRADE.
 - BASE SHALL BE 6" MINIMUM THICKNESS CRUSHED CONCRETE.
 - TEMPORARY PATCHES WILL BE INSTALLED TO PROVIDE A SMOOTH ALL WEATHER SURFACE AT ALL TIMES. PERMANENT REPLACEMENT TO BE MADE AS SOON AS POSSIBLE.
 - TRACER WIRE NOT REQUIRED FOR GRAVITY SEWERS.
 - NOTES 5, THRU 8, ARE MINIMUM REQUIREMENTS. REFER TO MANATEE COUNTY HIGHWAY AND TRAFFIC STANDARDS FOR ADDITIONAL REQUIREMENTS.

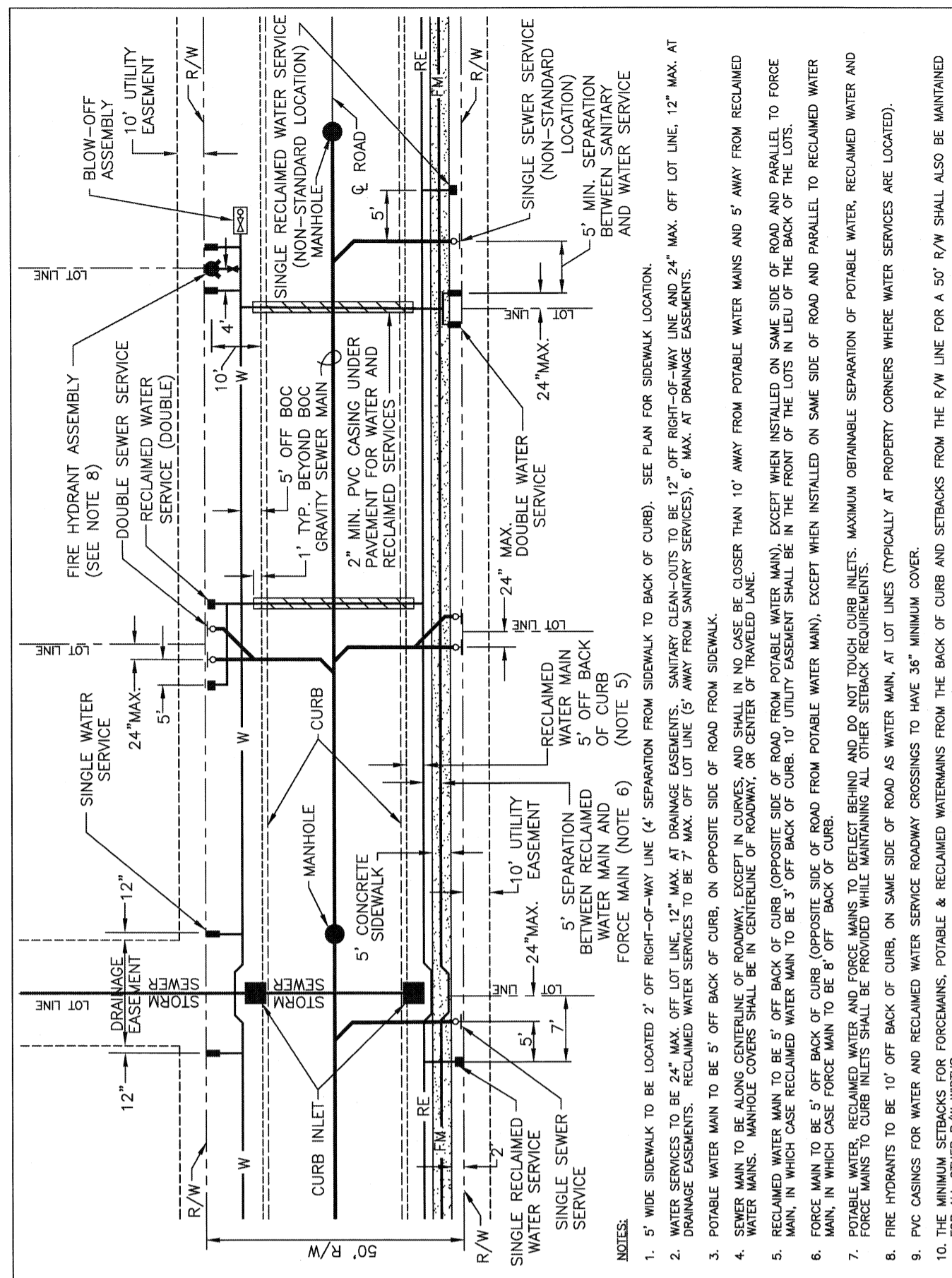


MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TRENCH WITH CONCRETE PAVEMENT SURFACE TYPE A-1 PIPE BEDDING		UG-13
REV. BY CLB/BR	DATE 11/10	MAY 10, 2011	DATE OF APPROVAL	PAGE 113

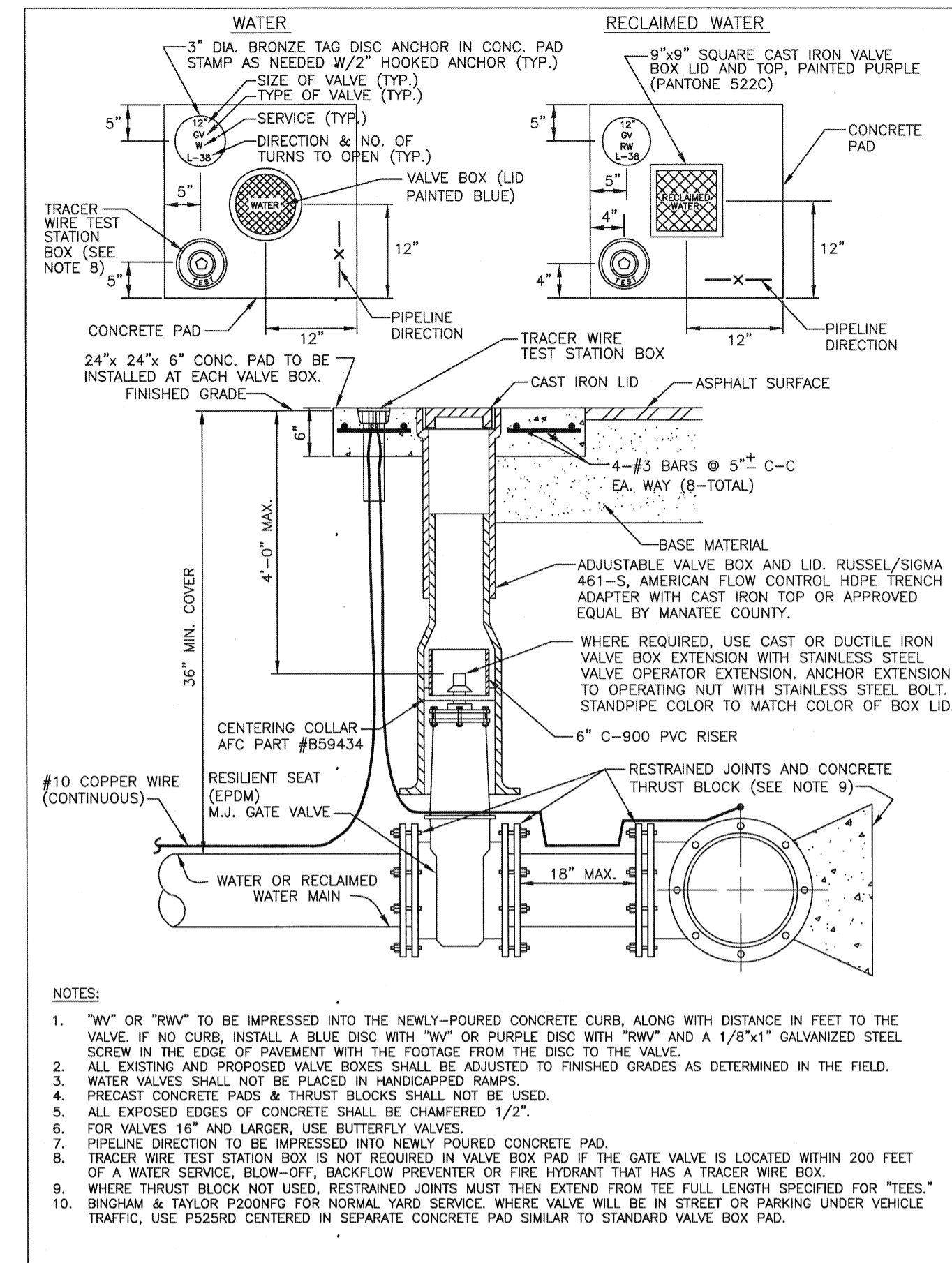
- NOTES:**
- USE OF TYPE A-2 AND A-3 PIPE BEDDING TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
 - PROVIDE ADEQUATE CLEARANCE TO PLACE AND COMPACT STAGE 1 BEDDING MATERIAL IN TRENCH AREA BELOW PIPE SPRINGLINE. PIPE EMBEDMENT MUST BE COMPACTED OUT TO THE TRENCH WALL OR 2.5 TIMES THE PIPE OD, WHICHEVER IS LESS.
 - TYPICALLY 4" TO 6".
 - PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
 - THICKNESS TO MATCH EXISTING OR BE 6" MINIMUM, WHICHEVER IS GREATER.
 - SHEETING ORDERED LEFT IN PLACE TO BE CUT OFF 24" BELOW FINISHED GRADE OR 12" BELOW SUBGRADE.
 - BASE SHALL BE COMPACTED 6" MINIMUM THICKNESS OF APPROVED MATERIAL.
 - DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST ADOPTED CONSTRUCTION STANDARDS OF THE MANATEE COUNTY TRANSPORTATION DEPARTMENT.
 - IF THE DRIVEWAY IS 12" OR WIDER, SAWCUT AN EXPANSION JOINT ALONG THE CENTER OF THE DRIVEWAY (3/8" WIDE AND 1/2" DEEP) AFTER THE CONCRETE HAS SET.
 - IF THERE IS AN EXISTING EXPANSION JOINT WITHIN 3' OF THE PROPOSED JOINT, EXTEND DRIVEWAY REPLACEMENT TO THE EXISTING JOINT.
 - TRACER WIRE NOT REQUIRED FOR GRAVITY SEWERS.



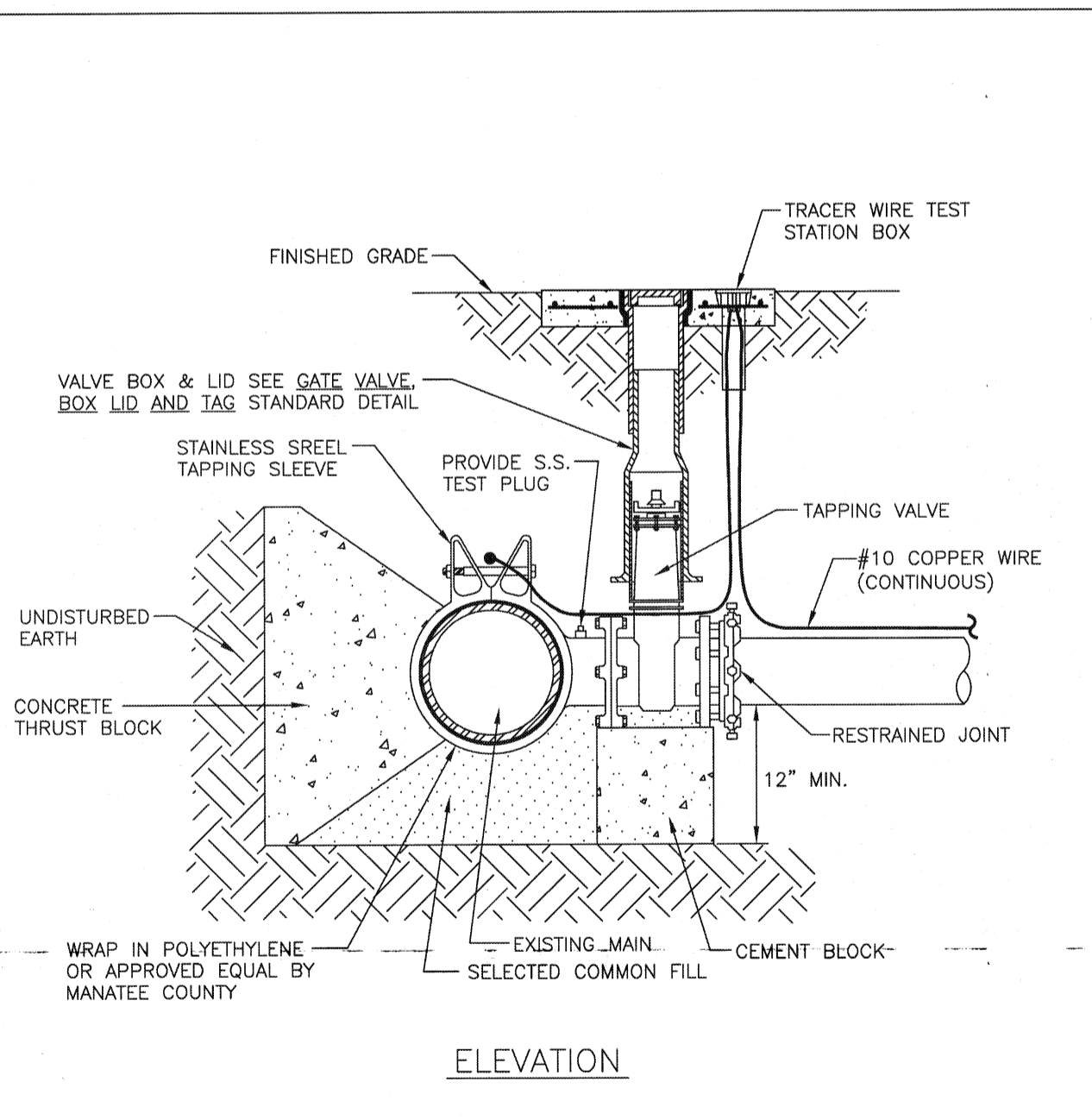
MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TRENCH WITH CONCRETE DRIVEWAY SURFACE TYPE A-1 PIPE BEDDING		UG-14
REV. BY CLB/BR	DATE 11/10	MAY 10, 2011	DATE OF APPROVAL	PAGE 114



MANATEE COUNTY PUBLIC WORKS DEPARTMENT		UTILITY LAYOUT FOR 50' R/W		UG-17
REV. BY CLB/BR	DATE 11/10	MAY 10, 2011	DATE OF APPROVAL	PAGE 117

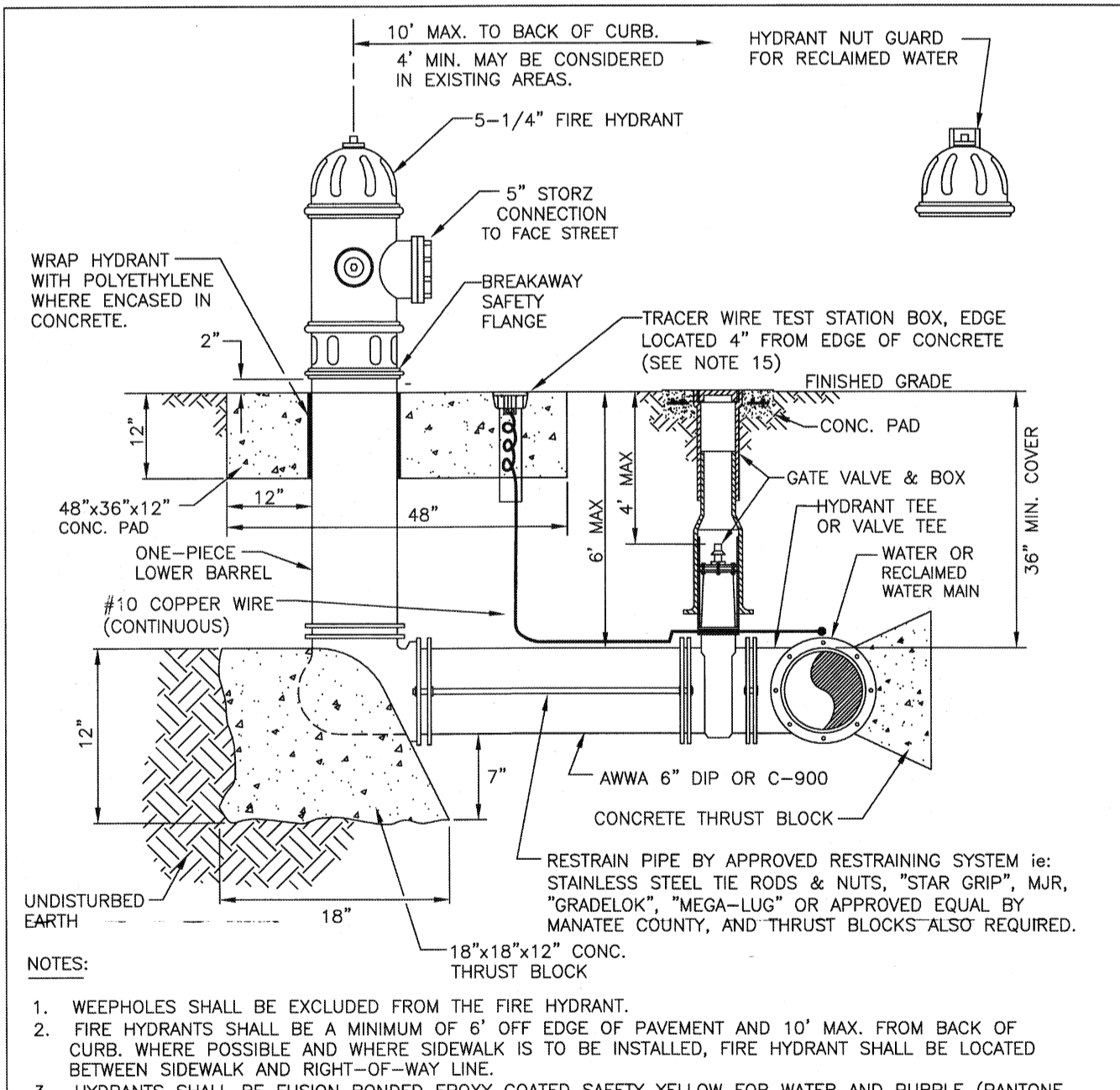


MANATEE COUNTY PUBLIC WORKS DEPARTMENT		GATE VALVE, BOX, LID AND TAG		UW-2
REV. BY CLB/KE	DATE 11/10	MAY 10, 2011	DATE OF APPROVAL	PAGE 120



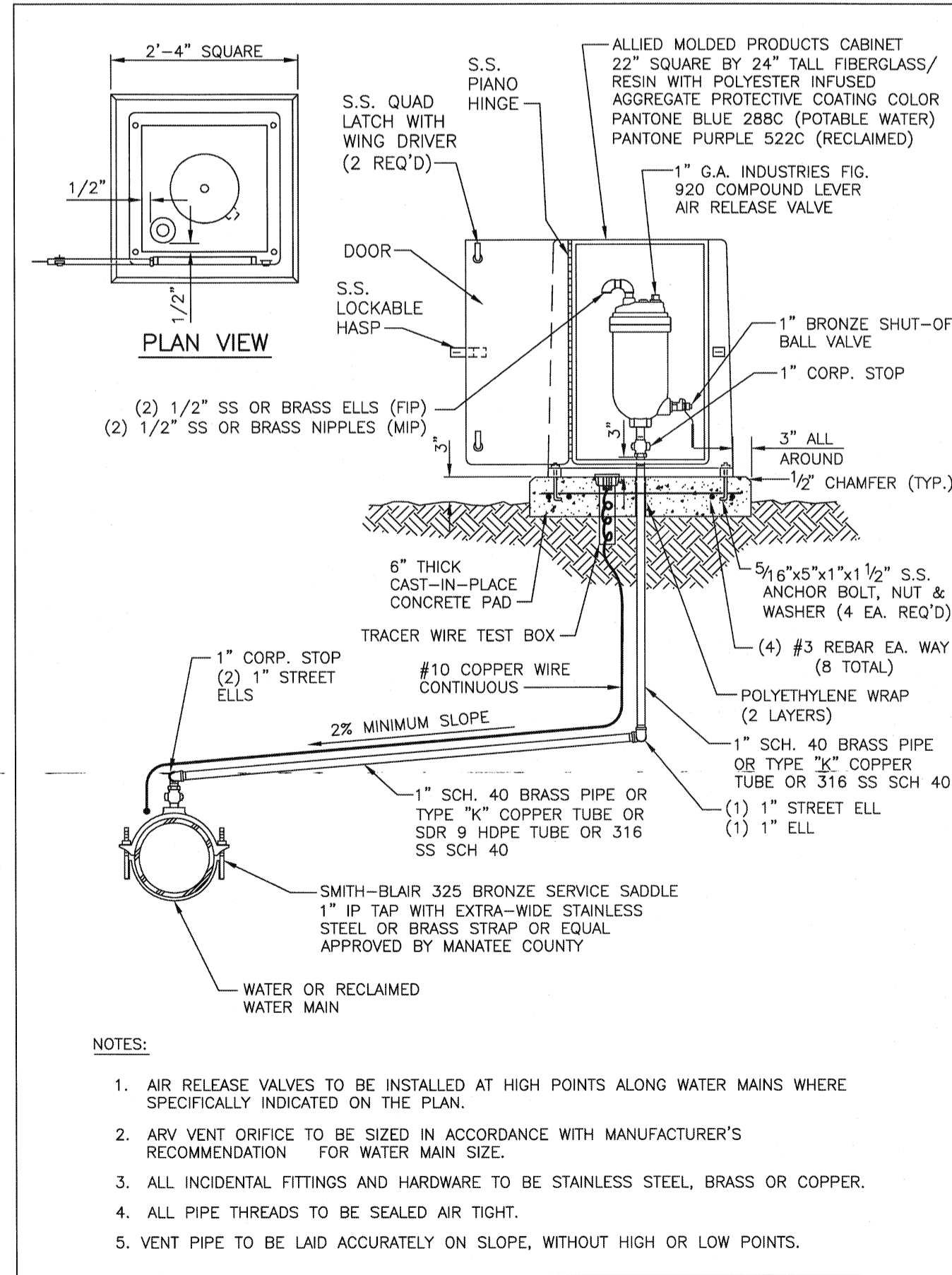
- NOTES:**
- PRIOR TO TAPPING, CONTRACTOR TO DEMONSTRATE 60 MINUTE HYDROSTATIC TEST OF THE TAPPING SLEEVE AND VALVE WITH NO LOSS OF 180 PSI PRESSURE FOR WATER AND RECLAIMED WATER OR 150 PSI FOR FORCE MAIN.
 - ALL FITTINGS TO BE WRAPPED WITH 20 MIL VISQUEEN AT THRUST BLOCK.
 - ALL TAPS ON CONCRETE WATER MAINS AND LARGER THAN 12" ARE TO BE MADE BY A MANATEE COUNTY APPROVED TAPPING COMPANY. ALL MATERIALS TO BE SUPPLIED BY THE CONTRACTOR.
 - ALL TAPS MUST BE OF A SMALLER SIZE THAN THE MAIN BEING TAPPED & PLACED NO CLOSER THAN 30" OR A DISTANCE EQUAL TO (1) MAIN PIPE DIAMETER PLUS (2) TAP PIPE DIAMETERS (WHICHEVER IS GREATER) FROM A JOINT OR FITTING.
 - CONTRACTOR TO SUPPLY A DRY HOLE FOR TAPPING CREW TO WORK IN AND A BACK-HOE TO LOWER TAPPING MACHINE INTO THE HOLE.
 - WHERE THRUST BLOCK NOT USED, RESTRAINED JOINTS MUST THEN EXTEND FROM TEE FULL LENGTH SPECIFIED FOR "TEES".
 - TRACER WIRE TEST STATION BOX IS REQUIRED AT CONNECTIONS TO EXISTING MAINS.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TAPPING SLEEVE AND VALVE		UW-4
REV. BY CLB/KE	DATE 11/10	MAY 10, 2011	DATE OF APPROVAL	PAGE 122

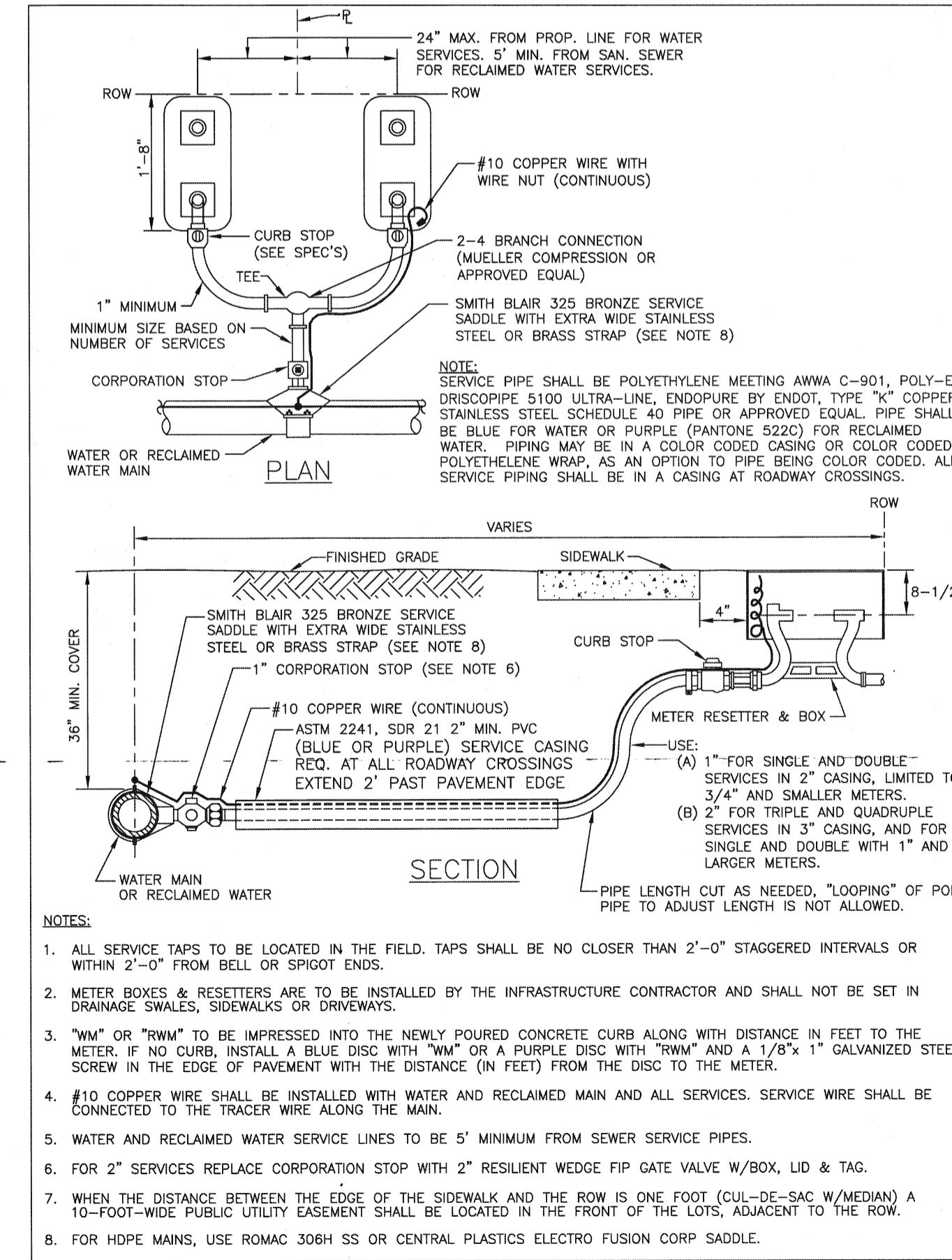


- NOTES:**
- WEEPHOLES SHALL BE EXCLUDED FROM THE FIRE HYDRANT.
 - FIRE HYDRANTS SHALL BE A MINIMUM OF 6" OFF EDGE OF PAVEMENT AND 10" MAX. FROM BACK OF CURB. WHERE POSSIBLE AND WHERE SIDEWALK IS TO BE INSTALLED, FIRE HYDRANT SHALL BE LOCATED BETWEEN SIDEWALK AND RIGHT-OF-WAY LINE.
 - HYDRANTS SHALL BE FUSION BONDED EPOXY COATED SAFETY YELLOW FOR WATER AND PURPLE (PANTONE 522C) FOR RECLAIMED WATER. HYDRANT SHALL BE DUCTILE IRON CONSTRUCTION.
 - FIRE HYDRANTS SHALL BE PLACED SO THAT STORM WATER FLOWS AWAY FROM THE HYDRANT.
 - FIRE HYDRANTS SHALL BE CONSTRUCTED WITH "ROUND LINE" SET TO FINISHED GRADES AS ESTABLISHED IN THE FIELD. NORMAL BURY IS 3 FEET OF COVER FOR ALL WATER LINES.
 - FIRE HYDRANTS MAY BE CONSTRUCTED WITH "GRADELOK" OFFSET FITTING.
 - RAISED REFLECTIVE PAVEMENT MARKER (BLUE) FOR POTABLE WATER (PURPLE) FOR RECLAIMED WATER. SHALL BE INSTALLED AT CENTERLINE OF PAVEMENT ADJACENT TO EACH HYDRANT.
 - PRECAST CONCRETE THRUST BLOCKS & PADS SHALL NOT BE USED.
 - ALL EXPOSED EDGES OF CONCRETE SHALL HAVE 1/2" CHAMFER.
 - FIRE HYDRANT VALVE SHALL BE FASTENED DIRECTLY TO TEE.
 - IN-LINE VALVES SHOULD BE LOCATED AT HYDRANT TEES.
 - HYDRANTS SHALL BE LOCATED ON SAME SIDE OF ROAD AS WATER MAIN UNLESS OTHERWISE APPROVED.
 - THERE MUST BE A CLEARANCE OF 7 1/2 FEET FROM FRONT AND BOTH SIDES, AND FOUR FEET TO THE REAR OF THE HYDRANT, TO ABOVE GRADE OBSTRUCTIONS INCLUDING POSTS, FENCES, TREES, ETC. PER THE FLORIDA FIRE PREVENTION CODE.
 - SEE STANDARD DETAIL GATE VALVE, BOX, LID AND TAG.
 - SHOULD THE FIRE HYDRANT'S CONCRETE PAD OVERLAP THE SIDEWALK, THE TRACER WIRE TEST STATION BOX SHALL NOT BE LOCATED WITHIN THE SIDEWALK.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		FIRE HYDRANT ASSEMBLY		UW-5
REV. BY CLB/KE	DATE 11/10	MAY 10, 2011	DATE OF APPROVAL	PAGE 123



MANATEE COUNTY PUBLIC WORKS DEPARTMENT		ABOVE-GROUND AIR RELEASE VALVE ASSY. FOR 12-INCH AND SMALLER WATER MAINS		UW-9
REV. BY CLB/KE	DATE 11/10	MAY 10, 2011	DATE OF APPROVAL	PAGE 127



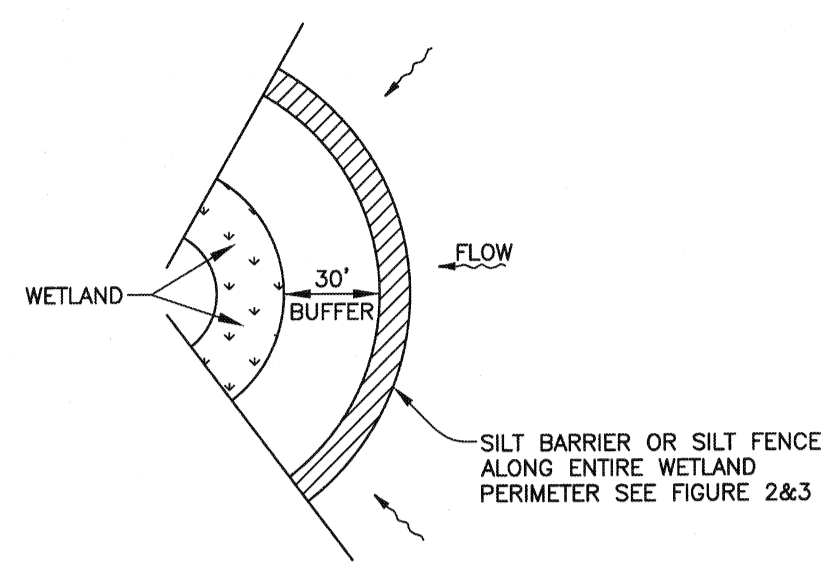
MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TYPICAL SERVICE CONNECTION		UW-19
REV. BY CLB/BR	DATE 11/10	MAY 10, 2011	DATE OF APPROVAL	PAGE 137

MARS LINE
COUNTRY MEADOWS
SUBDIVISION
DETAILS

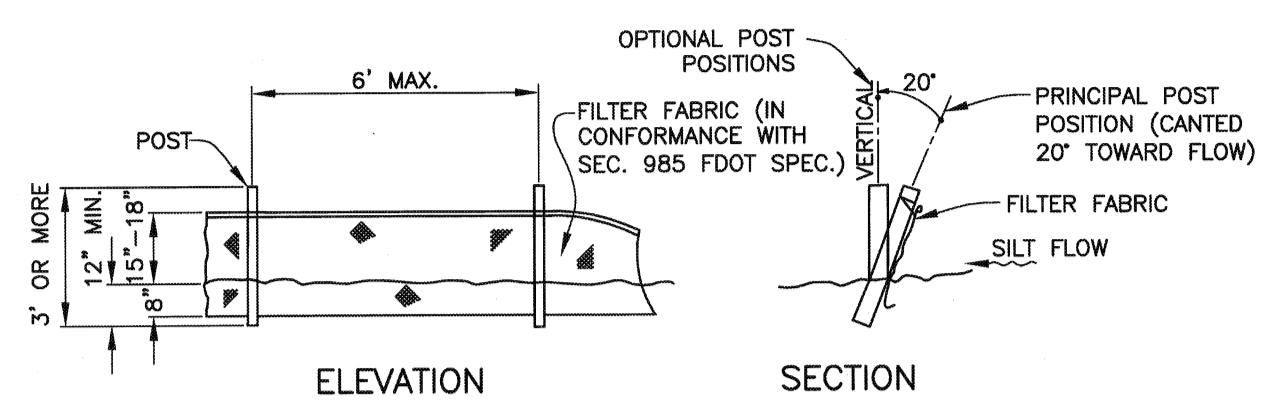
NO.	DATE	REVISION DESCRIPTION

PROJECT #	404-6082090
SURVEY #	??
SEC./TWN./RGE	27/34S/19E
SCALE	1"=20'
SURVEYED	GFY 05/07/12
DESIGNED	JDS 5/24/2012
DRAWN	CB 5/24/2012
CHECKED	----- 5/31/2012

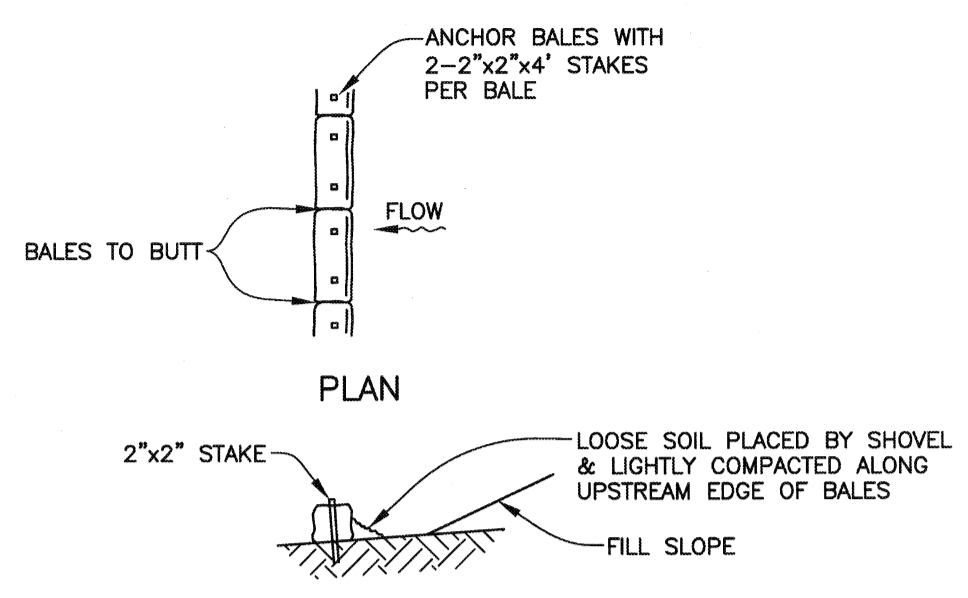
**MARS LINE
COUNTRY MEADOWS
SUBDIVISION
EROSION CONTROL**



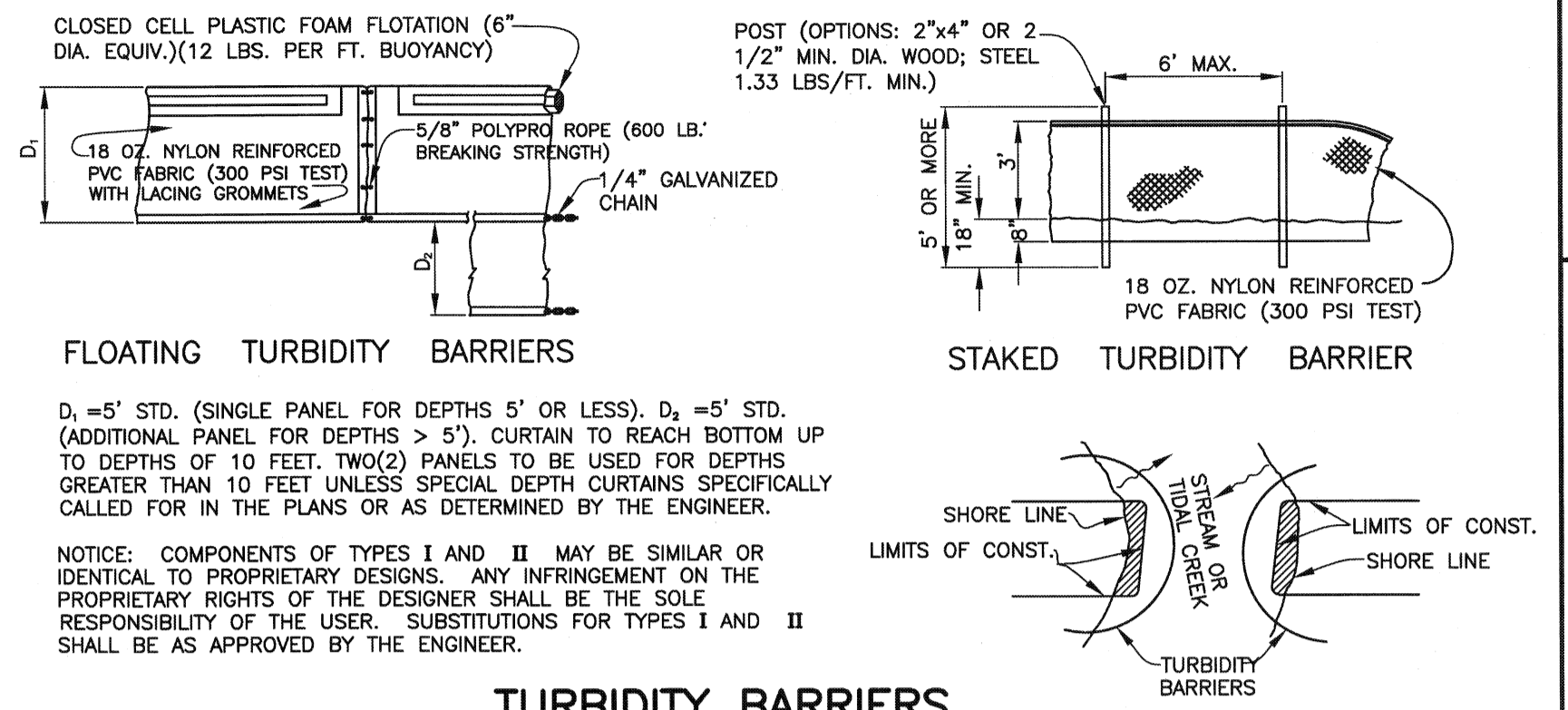
WETLAND BUFFER
FIGURE 1



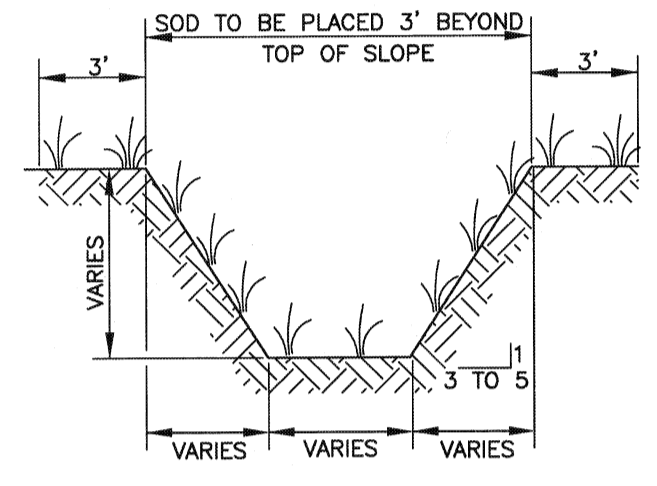
TYPICAL SILT FENCE
FIGURE 2



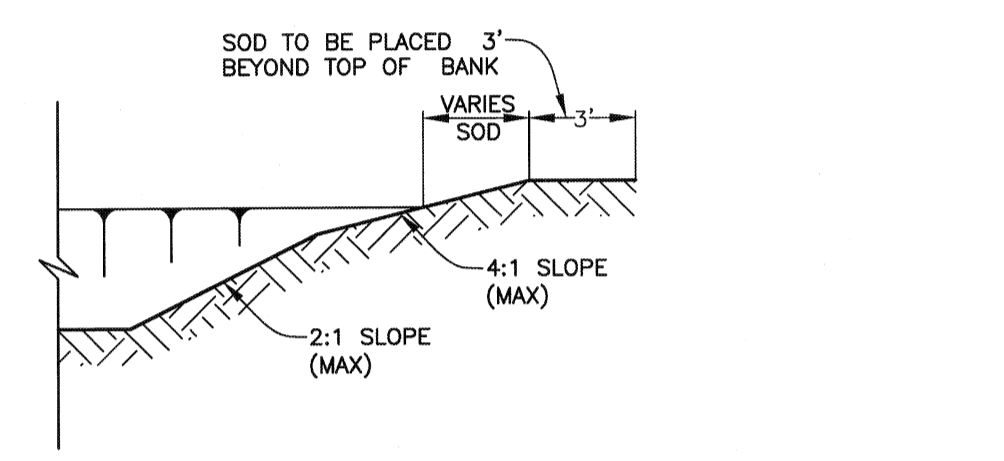
TYPICAL BALE SILT BARRIER
FIGURE 3



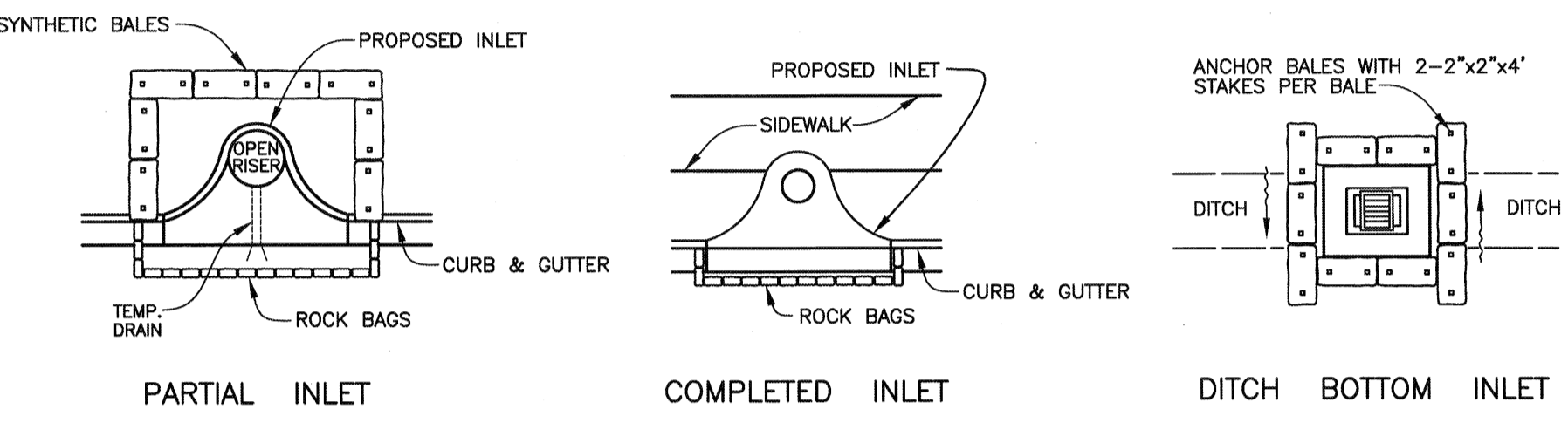
TURBIDITY BARRIERS
FIGURE 4



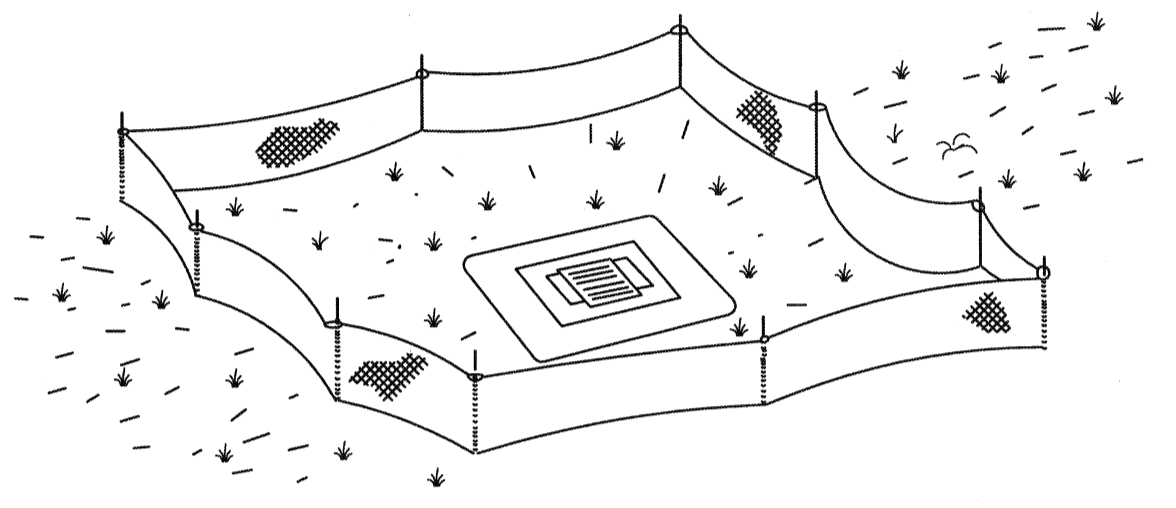
TYPICAL SWALE SECTION
FIGURE 5



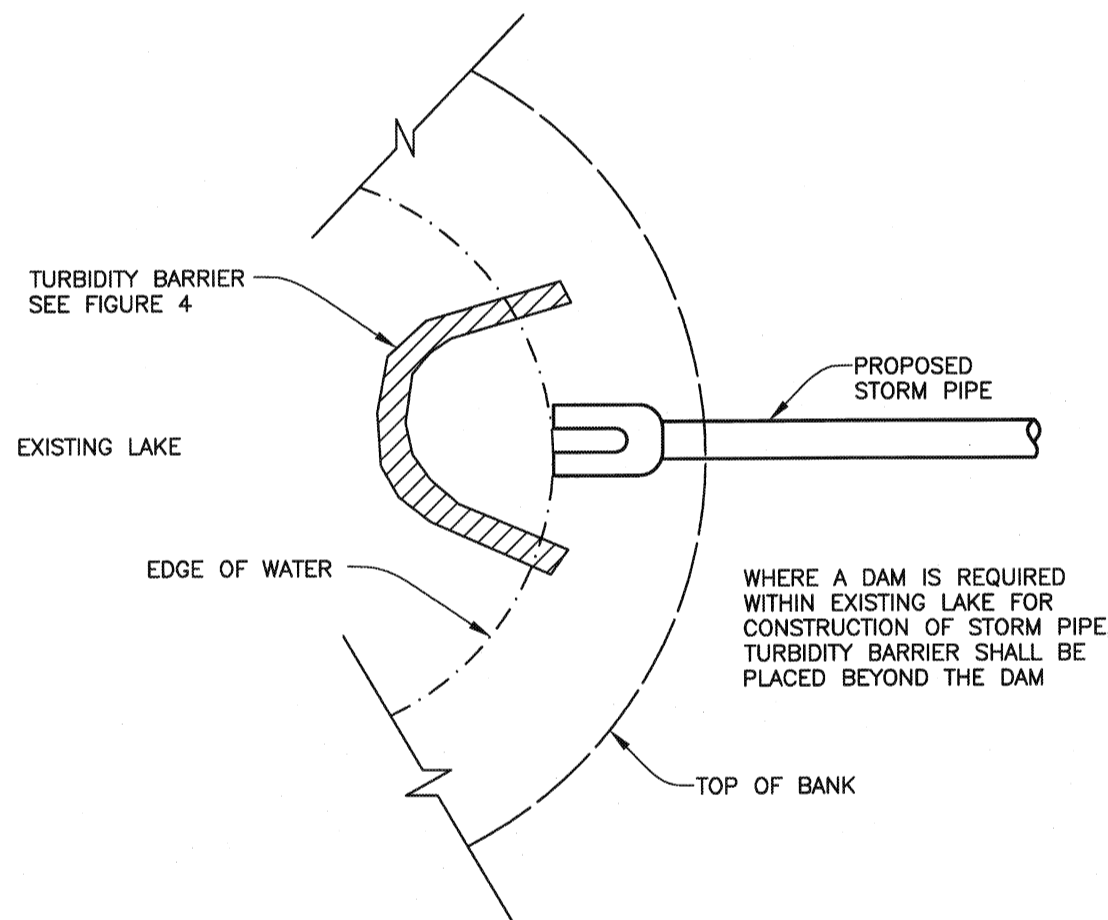
TYPICAL RETENTION/DETENTION POND SECTION
FIGURE 6



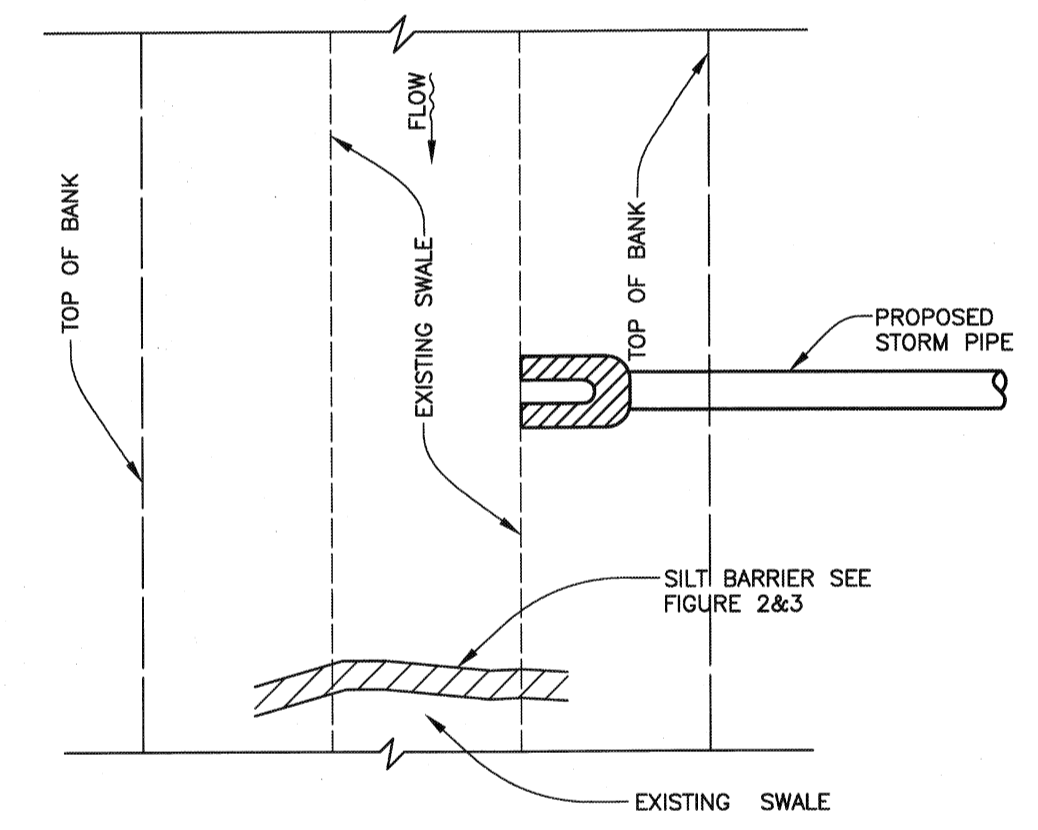
**SYNTHETIC BALE PROTECTION AROUND
INLETS OR SIMILAR STRUCTURES**
FIGURE 7



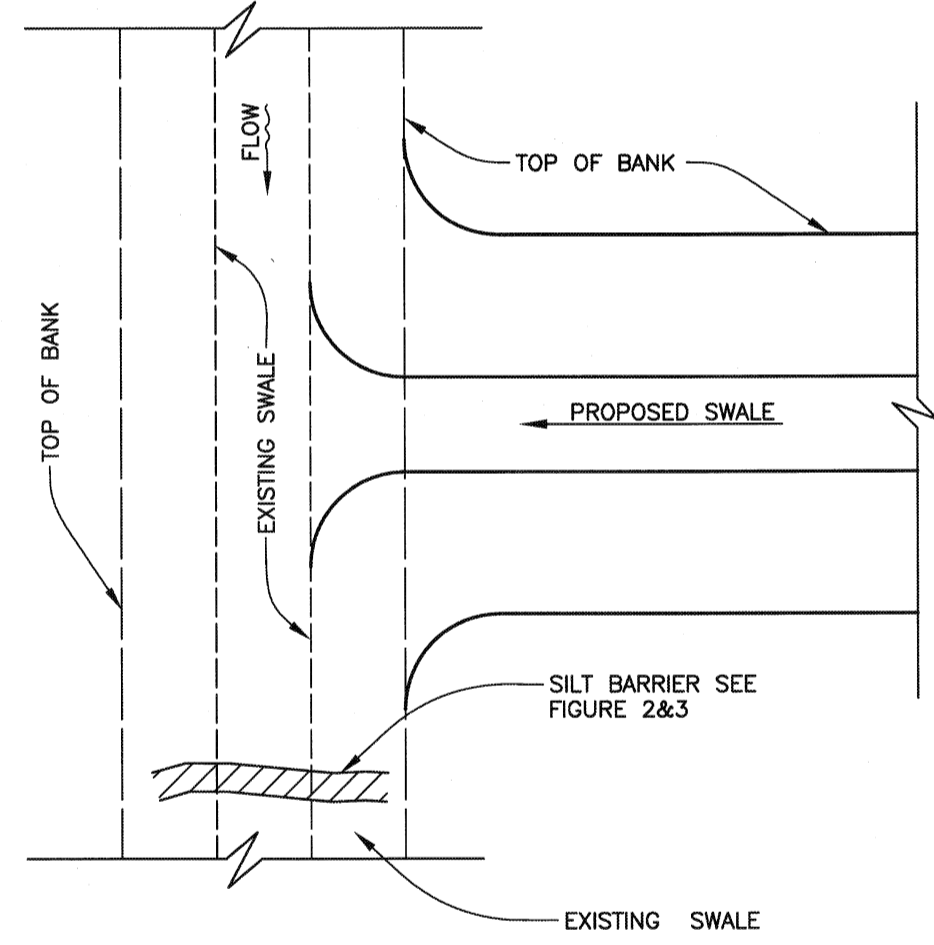
**TYPE III SILT FENCE PROTECTION
AROUND DITCH BOTTOM INLETS**
**STAKED SILT BARRIER OR SILT FENCE
PROTECTION AROUND DITCH BOTTOM INLETS**
FIGURE 8



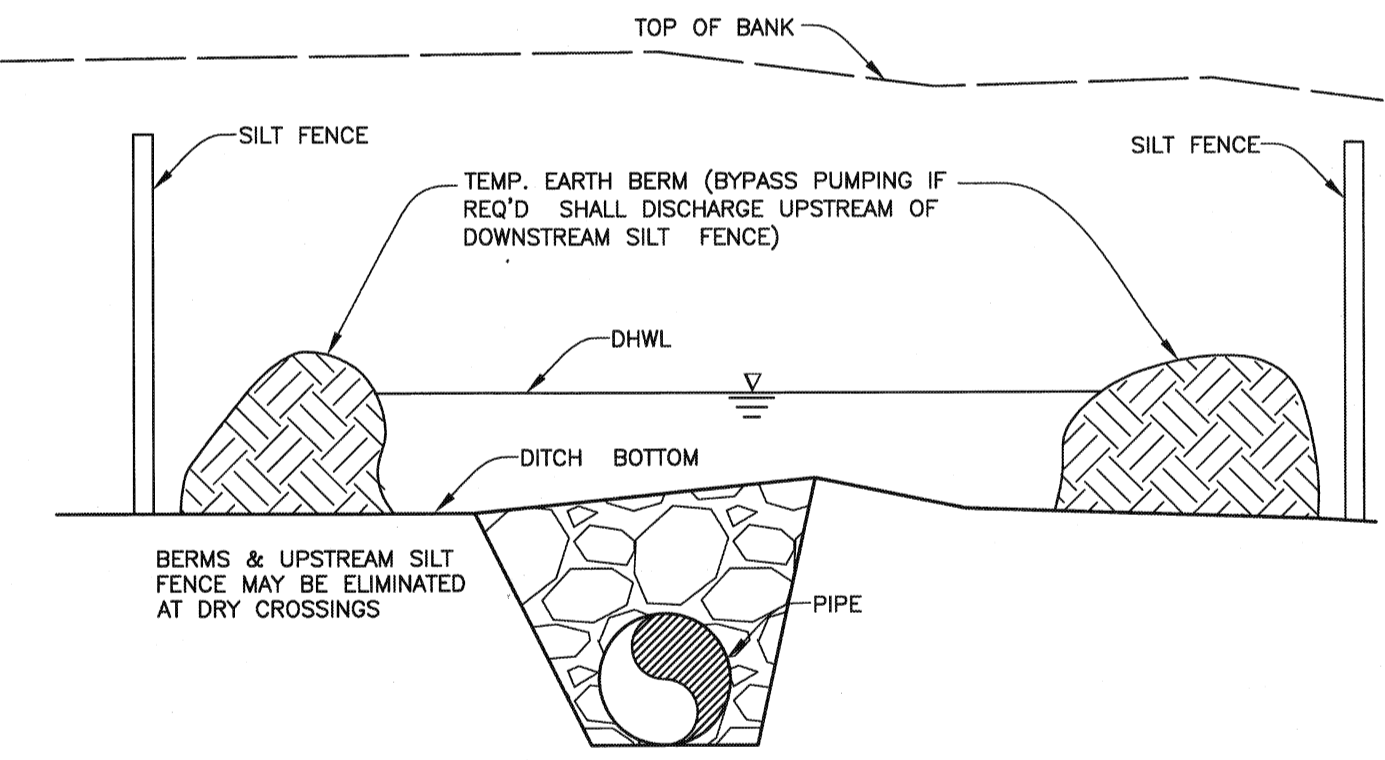
**TURBIDITY BARRIER AT CONNECTION OF
STORM PIPE TO EXISTING LAKE**
FIGURE 9



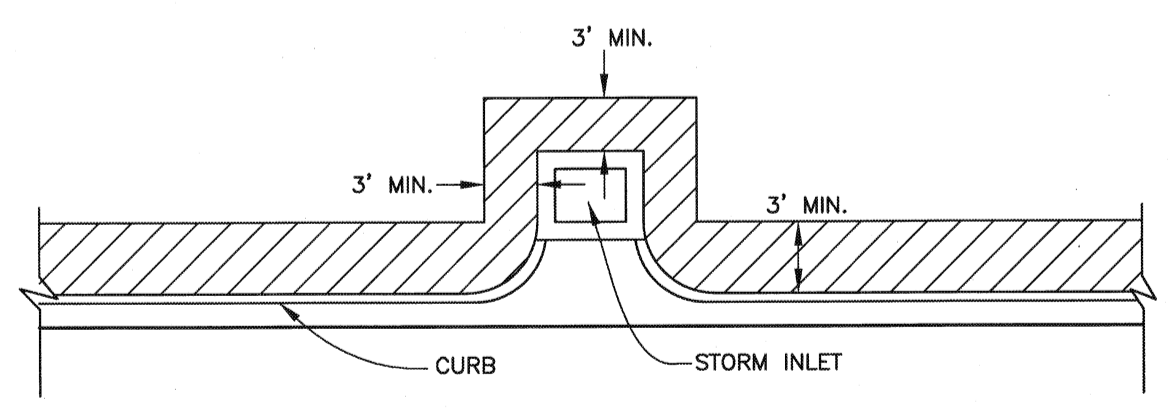
**SILT BARRIER AT CONNECTION OF
STORM PIPE TO EXISTING SWALE**
FIGURE 10



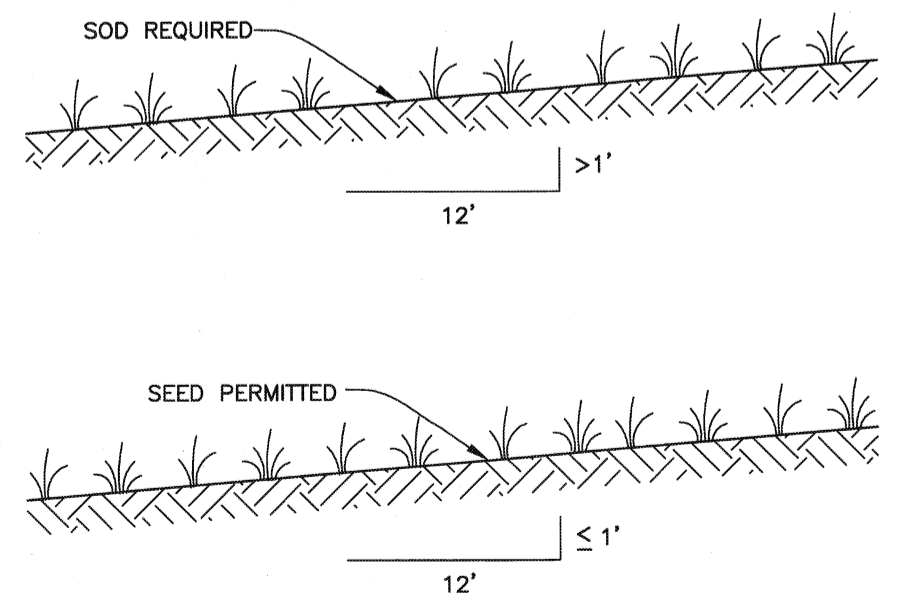
**SILT BARRIER AT CONNECTION
OF SWALE TO EXISTING SWALE**
FIGURE 11



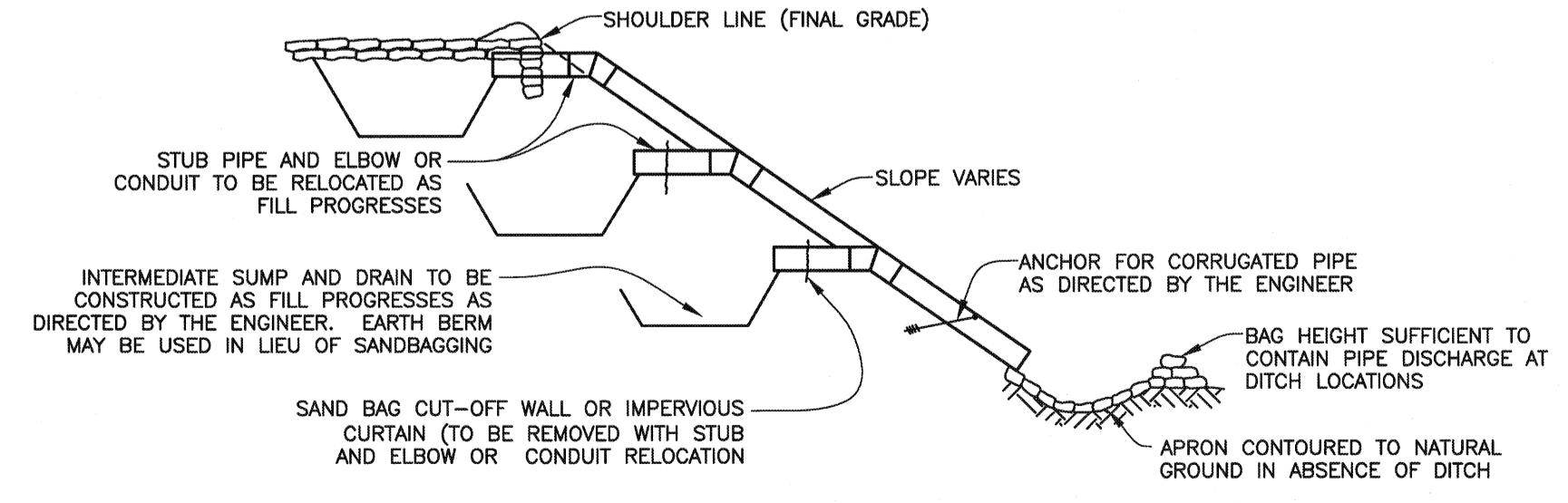
UNDERGROUND PIPE CROSSING
FIGURE 12



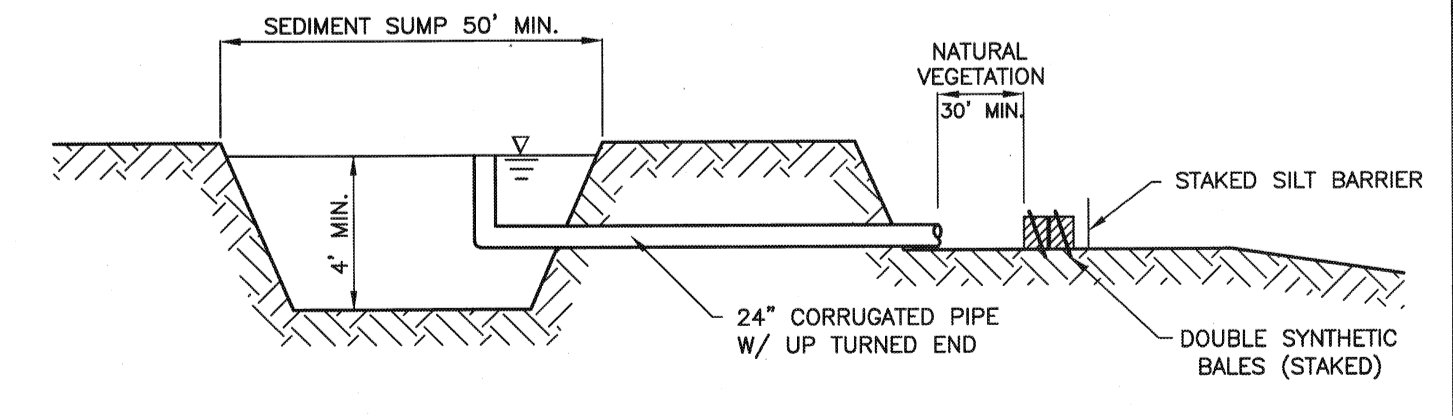
**SOD ALONG CURB
AND AROUND INLET**
FIGURE 14



GRASS SLOPES
FIGURE 13



**SECTION AA
TEMPORARY SLOPE DRAIN**
FIGURE 15



SEDIMENT SUMP SECTION
FIGURE 16

NOTE:
REFERENCE THE FDOT DESIGN STANDARDS
LATEST EDITION FOR ALL TEMPORARY
EROSION CONTROL MEASURES.

NO.	REVISION DESCRIPTION	BY	DATE

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CHECKED	----- 5/31/2012

JAMES STOCKWELL, P.E.
FLORIDA PROFESSIONAL ENGINEER
NO. 98745
EXPIRES 12/31/12

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