

CONSTRUCTION PLANS

FOR

FORCE MAIN 13A REPLACEMENT

MANATEE COUNTY, FLORIDA

FEBRUARY 2017

MANATEE COUNTY PROJECT #6049181



PROJECT TEAM:

OWNER:
MANATEE COUNTY
1022 28TH AVE. E.
BRADENTON, FL 34808
PROJECT MANAGER: JIM WILSON, P.E.
813-702-7400 ext. 7233

SURVEYOR:
HUNT SURVEY SERVICES INC.
11007 8TH AVENUE EAST
BRADENTON, FLORIDA 34812
PROJECT SURVEYOR: JAMES MATTHEWS
813-742-4800

ENGINEER:
SUNSHINE ENGINEERING AND ARCHITECTURE, INC.
681 NORTH FRANKLIN STREET SUITE 150
TAMPA, FL 33602
CONTACT: TOM PLOK, P.E.
813-271-8838

GEOTECHNICAL:
GEOLOGICAL ASSOCIATES, INC.
70 SANDHURST CENTER BUILDING
SARASOTA, FLORIDA 34230
CONTACT: JERRY H. WELSH, P.E.
813-922-3388

UTILITY CONTACTS:

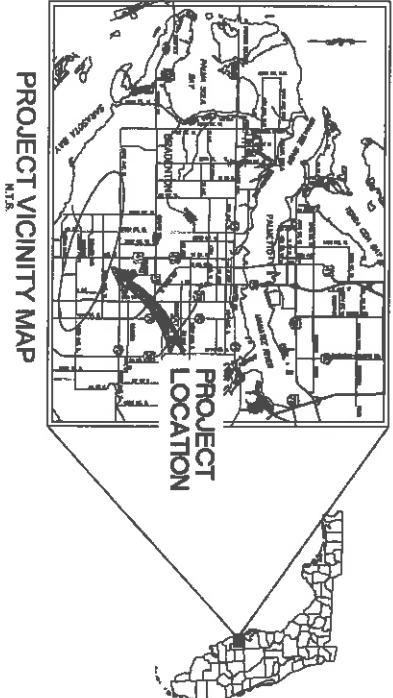
FLORIDA POWER & LIGHT
OSCAR CORNER
1000 N. W. 13TH AVE. EAST
PALM BEACH, FL 33424
813-723-4300

SNOW-CREST
RANNEY OLIVER
2240 GARDEN VILL DRIVE
WALTON MANOR, FL 32587
724-418-2725

MANATEE COUNTY
PLANNING DEPARTMENT
1000 10TH STREET N
TAMPA, FL 33604
813-292-8811 EXT. 3002

TELEPHONE NETWORKS
ALEX TELLENS
810 S. GULF BLVD. EAST
BRADENTON, FL 34808
813-742-3818 EXT. 34261

TOD PROFILES GAS
DANIEL SWANHAM
8001 WOOD CT.
BRADENTON, FL 34804
813-542-4026



PROJECT VICINITY MAP
N.T.S.

SHEET LIST TABLE

SHEET NUMBER	SHEET TITLE
01	COVER SHEET
02	GENERAL NOTES
03	SURVEY AND SITE DATA TABLE
04	OVERALL KEY SHEET
05-18	60TH AVE. NORTH PLAN & PROFILE
20	12TH ST. WEST PLAN & PROFILE
21-24	60TH AVE. TERRACE PLAN & PROFILE
25-27	5TH STREET WEST PLAN & PROFILE
28	MASTER LIFT STATION 13A PLAN
29-32	CONSTRUCTION DETAILS
33-35	SIDEWALK PLAN AND DETAILS
36	HEADER PAVING PLAN

THE SITE CONSTRUCTION GENERAL SHALL BE APPROVED UNDER THE SUPERVISION OF A FLORIDA REGISTERED SURVEYOR. ANY DISCREPANCIES FOUND BETWEEN THE SITE CONSTRUCTION GENERAL AND THE CONSTRUCTION DETAILS SHALL BE BROUGHT TO THE SURVEYOR'S ATTENTION FOR CLARIFICATION PRIOR TO THE START OF CONSTRUCTION.

PREPARED BY
Kimley-Horn

DATE	AUGUST 2016
PROJECT NO.	148400011
SHEET NUMBER	01
DESIGNED BY	JOSHUA W. WARDEN, P.E.
CHECKED BY	7/26/12
DATE	

2-10-17

NO. _____ DATE _____ BY _____

ADDITIONAL # _____ DATE _____ BY _____

REVISIONS

Kimley-Horn

8301 MARKET AVENUE AND ASSOCIATES, INC.
455 NORTH FAY AVENUE, SUITE 500, TAMPA, FL 33602
PHONE 813-983-1460
WWW.KIMLEY-HORN.COM CA 00000395

DATE 2/1/77
SCALE AS SHOWN
DESIGNED BY JAW
DRAWN BY SHH
CHECKED BY NEH

FORCE MAIN 13A REPLACEMENT

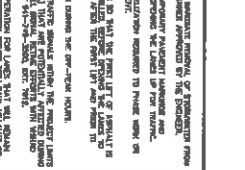
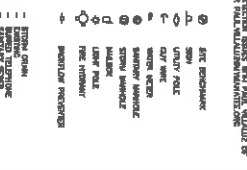
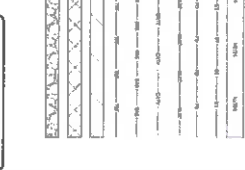
FL. DATE _____

LEONARD HENNINGSON
JOHN W. WILSON, P.E.
R. LANCE ANDERSON
76652

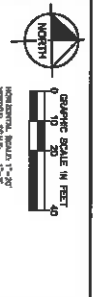
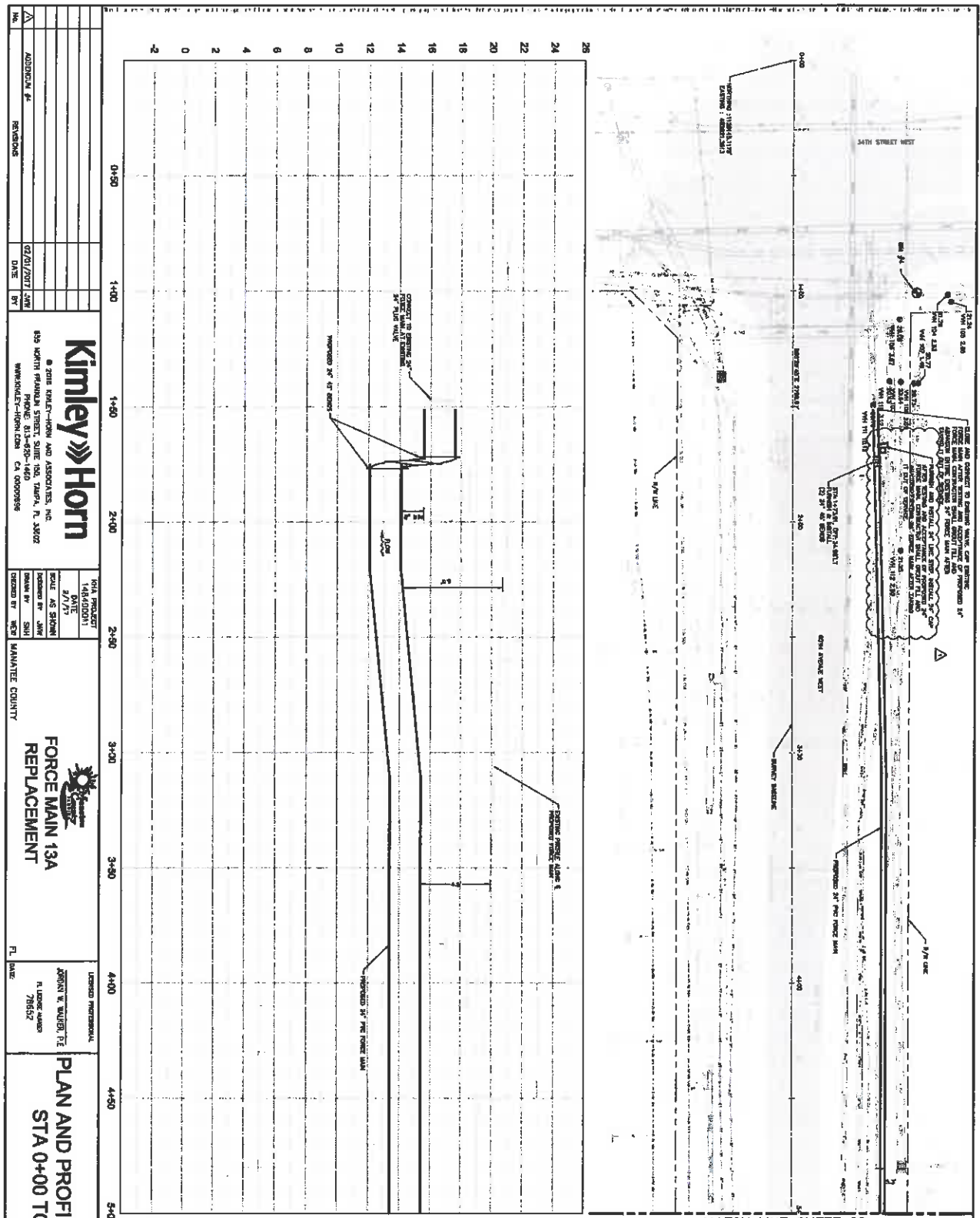
GENERAL NOTES

SHEET NUMBER **02**

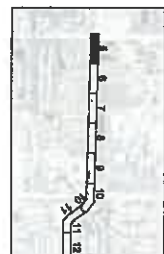
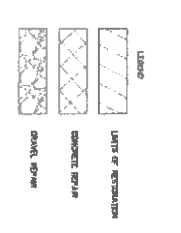
- ALL CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITH THE PROJECT MANAGER PRESENT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF TAMPA.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, SEVENTH EDITION, AS AMENDED BY THE CITY OF TAMPA.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE CITY OF TAMPA SPECIFICATIONS FOR WATER MAINS AND SEWER MAINS.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE CITY OF TAMPA SPECIFICATIONS FOR STORM SEWERS.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE CITY OF TAMPA SPECIFICATIONS FOR UTILITY STRUCTURES.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE CITY OF TAMPA SPECIFICATIONS FOR EROSION CONTROL.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE CITY OF TAMPA SPECIFICATIONS FOR TRAFFIC CONTROL.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE CITY OF TAMPA SPECIFICATIONS FOR PUBLIC SAFETY.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE CITY OF TAMPA SPECIFICATIONS FOR ENVIRONMENTAL PROTECTION.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE CITY OF TAMPA SPECIFICATIONS FOR QUALITY CONTROL.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE CITY OF TAMPA SPECIFICATIONS FOR RECORD DRAWINGS.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE CITY OF TAMPA SPECIFICATIONS FOR AS-BUILT DRAWINGS.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE CITY OF TAMPA SPECIFICATIONS FOR FINAL INSPECTION.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE CITY OF TAMPA SPECIFICATIONS FOR FINAL ACCEPTANCE.



811



1. REFER TO SHEET 06 FOR ADDITIONAL INFORMATION.
2. CONTRACTOR TO MAINTAIN EXISTING UTILITIES UNLESS OTHERWISE NOTED.
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10. CONTRACTOR TO MAINTAIN EXISTING UTILITIES UNLESS OTHERWISE NOTED.



NOTES:

1. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.

2. CONTRACTOR TO MAINTAIN EXISTING UTILITIES UNLESS OTHERWISE NOTED.

3. CONTRACTOR TO MAINTAIN EXISTING UTILITIES UNLESS OTHERWISE NOTED.

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10. CONTRACTOR TO MAINTAIN EXISTING UTILITIES UNLESS OTHERWISE NOTED.

NO.	REVISIONS
1	ADDITION #1
2	ADDITION #2
3	ADDITION #3
4	ADDITION #4
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47	ADDITION #47
48	ADDITION #48
49	ADDITION #49
50	ADDITION #50

Kimley-Horn

3030 KIMLEY-HORN AND ASSOCIATES, INC.
 835 NORTH PEARSON STREET, SUITE 100, TAMPA, FL 33602
 WWW.KIMLEY-HORN.COM CA 0000058

FORCE MAIN 13A REPLACEMENT

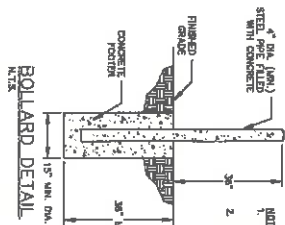
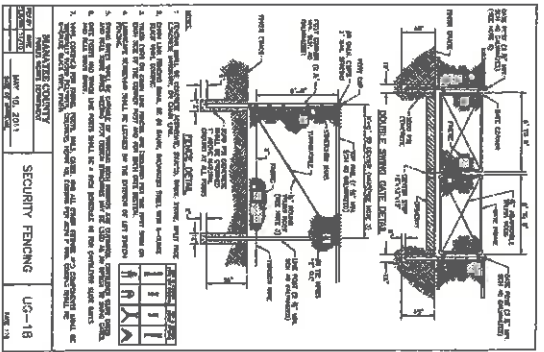
MANATEE COUNTY

DATE: 2/7/15
 DRAWN BY: SHH
 CHECKED BY: MCB

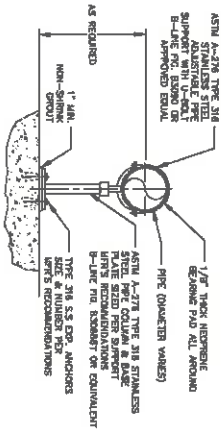
FL DATE: 7/8/15

**PLAN AND PROFILE (60TH AVE W)
 STA 0+00 TO STA 5+00**

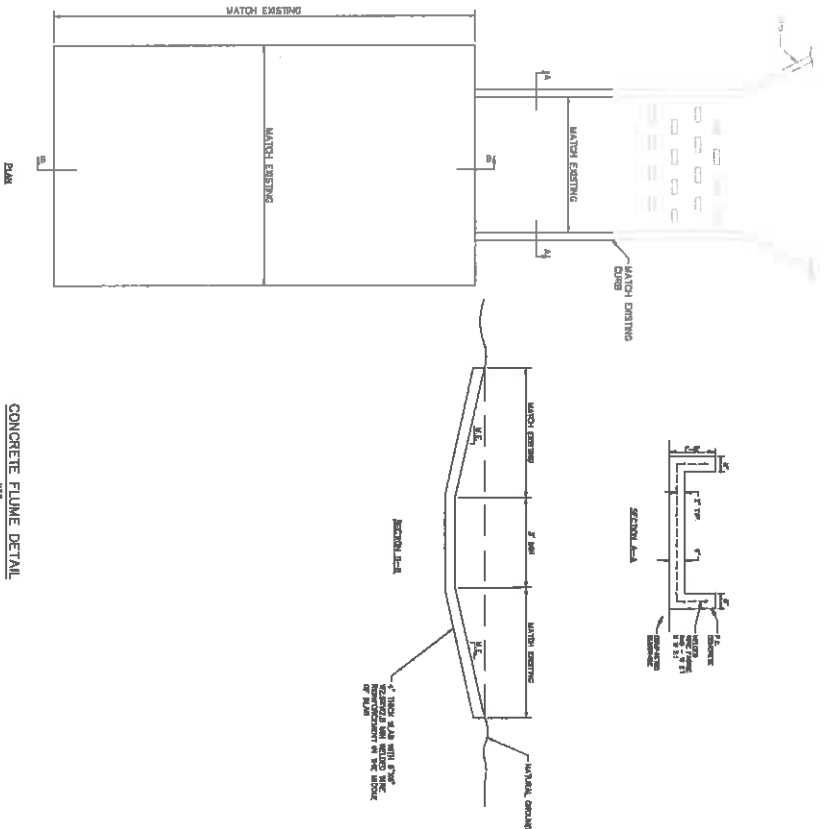
SHEET NUMBER: 05



- NOTES:
1. BOLLARDS SHALL BE SPACED NOT MORE THAN 10 FEET.
 2. BOLLARDS SHALL BE PROTECTED OBJECT.



PIPE SUPPORT DETAIL
N.T.S.



GROUNDWATER / DEWATERING NOTE:
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FOR GROUNDWATER DEWATERING. THE CONTRACTOR SHALL MAINTAIN RECORDS OF ALL DEWATERING ACTIVITIES AND SUBMIT THEM TO THE ENGINEER FOR REVIEW AND APPROVAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING THE GROUNDWATER TO ITS ORIGINAL LEVEL AND QUALITY AFTER THE DEWATERING IS COMPLETE.

NO.	REVISIONS	DATE	BY
1	ADDENDUM #1	02/01/2017	AWW

Kimley»Horn
 2018 REGISTERED ENGINEER AND ARCHITECT, INC.
 635 NORTH PHOENIX AVENUE, SUITE 1000, TAMPA, FL 33602
 WWW.KIMLEY-HORN.COM CA 00000939

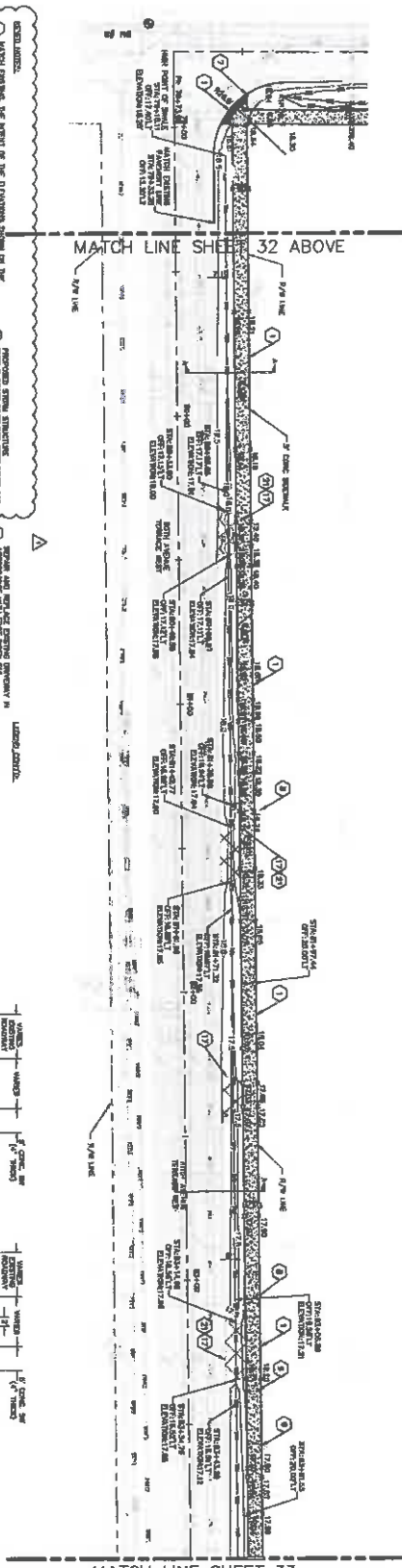
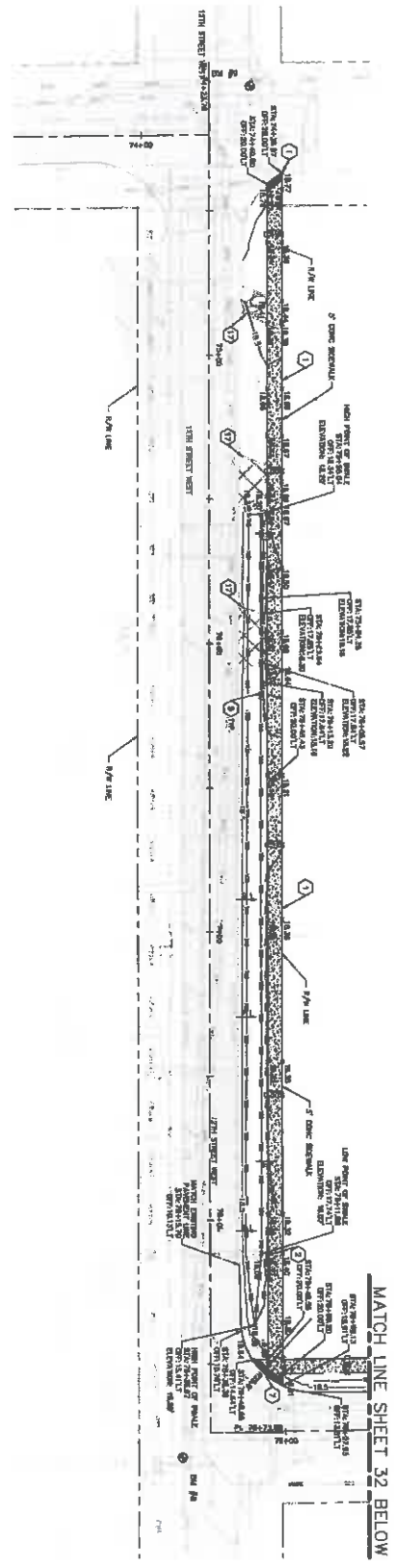
NOIA PROJECT
 1-18-14000011
 SCALE AS SHOWN
 DRAWN BY: AWW
 CHECKED BY: SHH
 DESIGNED BY: MCF

FORCE MAIN 13A REPLACEMENT
 FL 1000

DESIGNED PROFESSIONAL
 JOSEPH R. WILSON, P.E.
 F. LICENSE NUMBER
 78652

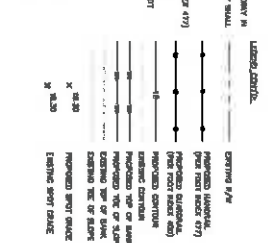
DETAILS

SHEET NUMBER
32



- GENERAL NOTES:**
1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION OF PUBLIC WORKS, LATEST EDITION, AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION OF PUBLIC WORKS, LATEST EDITION, AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION OF PUBLIC WORKS, LATEST EDITION.
 2. CHECK DIMENSIONS AND MATERIALS TO BE PROVIDED BY OTHERS.
 3. VERIFY DIMENSIONS AND MATERIALS TO BE PROVIDED BY OTHERS.
 4. VERIFY DIMENSIONS AND MATERIALS TO BE PROVIDED BY OTHERS.
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 19. VERIFY DIMENSIONS AND MATERIALS TO BE PROVIDED BY OTHERS.
 20. VERIFY DIMENSIONS AND MATERIALS TO BE PROVIDED BY OTHERS.

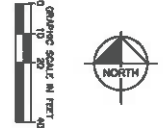
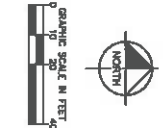
- LEGEND:**
- 1. 5' CONC. SIDEWALK
 - 2. 5' CONC. CURB
 - 3. 12" CONC. SLAB
 - 4. 12" CONC. SLAB
 - 5. 12" CONC. SLAB
 - 6. 12" CONC. SLAB
 - 7. 12" CONC. SLAB
 - 8. 12" CONC. SLAB
 - 9. 12" CONC. SLAB
 - 10. 12" CONC. SLAB
 - 11. 12" CONC. SLAB
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 - 19. 12" CONC. SLAB
 - 20. 12" CONC. SLAB



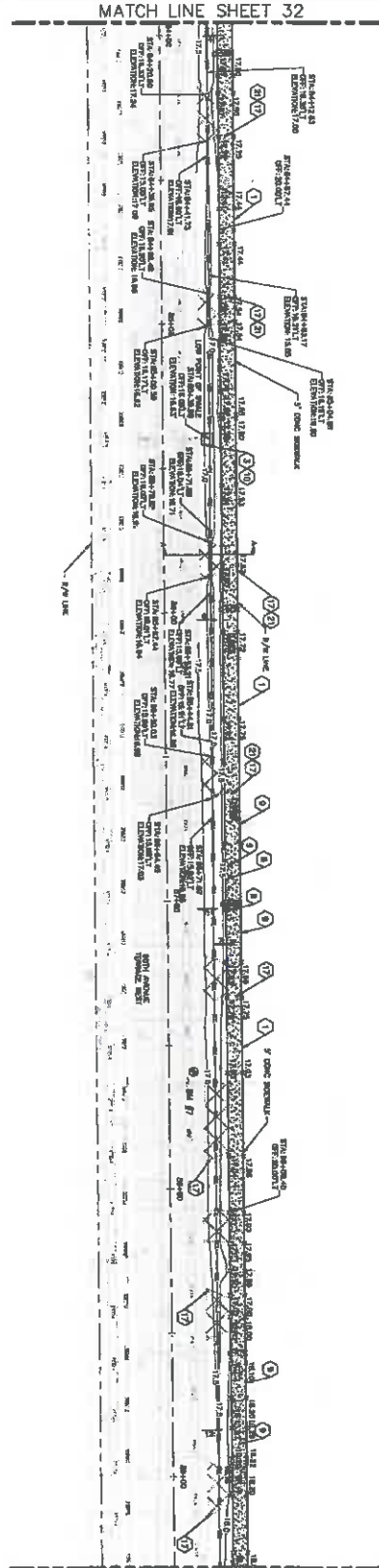
No.	NO. QUESTION	RESPONSE	DATE	BY
Kimley-Horn and Associates, Inc. 635 NORTH FRANKLIN STREET, SUITE 100, TAMPA, FL 33602 PHONE: 813-320-1460 WWW/KIMLEY-HORN.COM CA 00000055				
PROJECT NO. 48400011 DATE 2/1/17 SCALE AS SHOWN DESIGNED BY JMM DRAWN BY SMH CHECKED BY NEA		FLORIDA DEPARTMENT OF TRANSPORTATION FLORIDA TURNPIKE AUTHORITY PROJECT: I-75/US 90 CONTRACT NO. 13A DRAWING NO. 13A-100-00000055		
SHEET NUMBER 33		PROJECT TITLE FORCE MAIN 13A REPLACEMENT		
CONTRACT NO. 13A-100-00000055		DRAWING NO. 13A-100-00000055		

GROUNDWATER / DEWATERING NOTE:

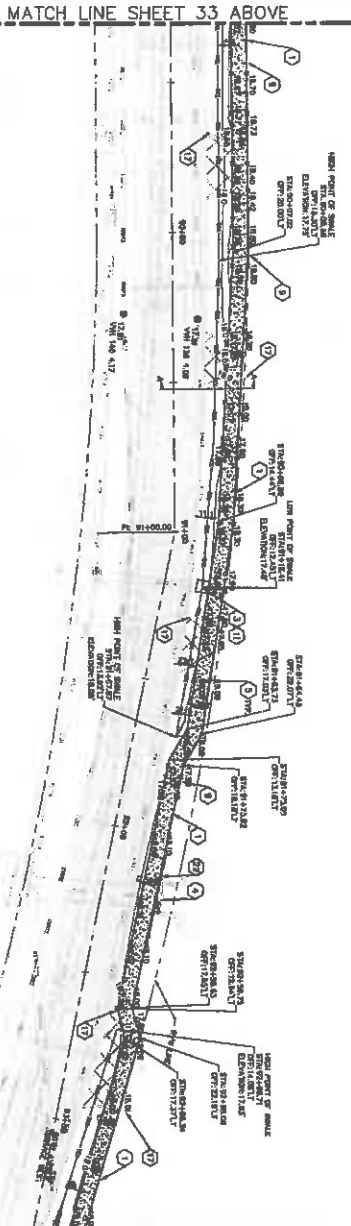
THE PROPOSED CONSTRUCTION OF THIS PROJECT MAY CAUSE GROUNDWATER DEPLETION AND/OR GROUNDWATER CONTAMINATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING GROUNDWATER LEVELS AND QUALITY DURING CONSTRUCTION AND SHALL TAKE APPROPRIATE MEASURES TO PREVENT GROUNDWATER DEPLETION AND/OR CONTAMINATION.



MATCH LINE SHEET 32



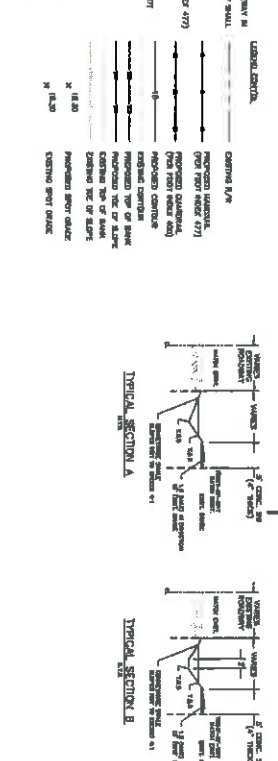
MATCH LINE SHEET 33 ABOVE



MATCH LINE SHEET 34

1. EXISTING SIDEWALK TO BE REMOVED AND REPLACED AS SHOWN.
2. EXISTING SIDEWALK TO BE RECONSTRUCTED TO EXISTING FINISH ELEVATION AS SHOWN.
3. EXISTING SIDEWALK TO BE RECONSTRUCTED TO EXISTING FINISH ELEVATION AS SHOWN.
4. EXISTING SIDEWALK TO BE RECONSTRUCTED TO EXISTING FINISH ELEVATION AS SHOWN.
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20. EXISTING SIDEWALK TO BE RECONSTRUCTED TO EXISTING FINISH ELEVATION AS SHOWN.

NO. QUESTION RESPONSES	REVISIONS	DATE	BY
2016 HUNTER-HORN AND ASSOCIATES, INC. 656 NORTH HAVEN STREET, SUITE 150, TAMPA, FL 33607 PHONE: 813-850-1457 WWW.KIMLEY-HORN.COM CA 0000038			
NO. PROJECT	146400011	DATE	2/7/17
DESIGNED BY	AS SHOWN	DRAWN BY	JAM
CHECKED BY	SM	DATE	
DESIGNED BY	WEST	COUNTY	MANATEE COUNTY
FL	DATE		
DESIGNED PROFESSIONAL	AMALIE R. WALKER, P.E.	FL LICENSE NUMBER	78652
		FORCE MAIN 13A REPLACEMENT	
SIDEWALK PLAN (60TH AVE W)		SHEET NUMBER 34	



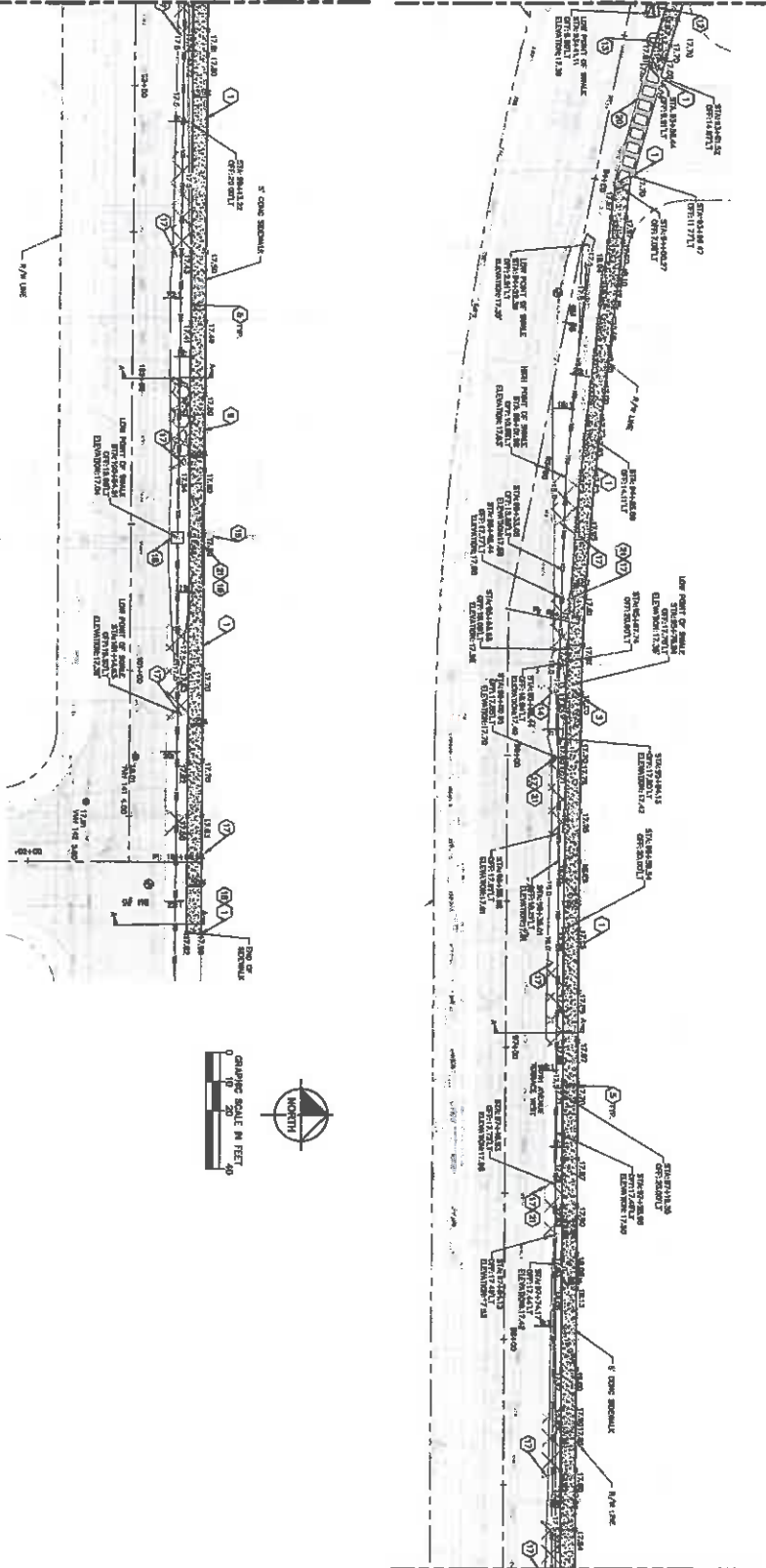
GROUNDWATER / WATERLINE NOTE:
 THE PRESENCE OF GROUNDWATER OR WATERLINES HAS NOT BEEN DETERMINED BY VISUAL INSPECTION OR RECORD DRAWINGS. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL GROUNDWATER AND WATERLINES PRIOR TO CONSTRUCTION OF THIS PROJECT. ANY UNEXPECTED GROUNDWATER OR WATERLINES SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.



MATCH LINE SHEET 33

MATCH LINE SHEET 34 ABOVE

MATCH LINE SHEET 34 BELOW



- REVISIONS**
- | No. | NO. QUESTION | RESPONSE | DATE | BY |
|-----|--------------|----------|-----------|-----|
| 1 | | | 1/24/2017 | JAW |
- REVISIONS**
1. ALL DIMENSIONS TO BE IN FEET AND INCHES UNLESS OTHERWISE NOTED.
 2. ALL DIMENSIONS TO BE TO THE CENTERLINE OF THE SIDEWALK UNLESS OTHERWISE NOTED.
 3. ALL DIMENSIONS TO BE TO THE CENTERLINE OF THE SIDEWALK UNLESS OTHERWISE NOTED.
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 20. ALL DIMENSIONS TO BE TO THE CENTERLINE OF THE SIDEWALK UNLESS OTHERWISE NOTED.

Kimley-Horn

2018 KIMLEY-HORN AND ASSOCIATES, INC.
 645 NORTH FRANKLIN STREET, SUITE 150, YUBA, CA 95902
 PHONE: 916-880-1400
 YUBA@KIMLEY-HORN.COM CA 00000888

RVA PROJECT
 1/24/2017
 DATE
 2/7/17
 CHECKED BY: JAW
 DRAWN BY: JAW
 DESIGNED BY: JAW
 MAINTENANCE COUNTY

FORCE MAIN 13A REPLACEMENT

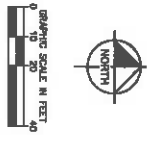
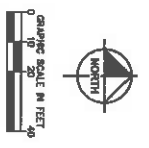
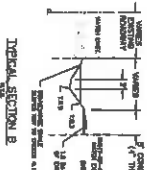
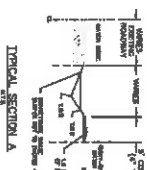
LEONARD PROFESSIONAL
 DONALD R. RALPH, P.E.
 14 COLLEGE AVENUE
 YUBA, CA 95902

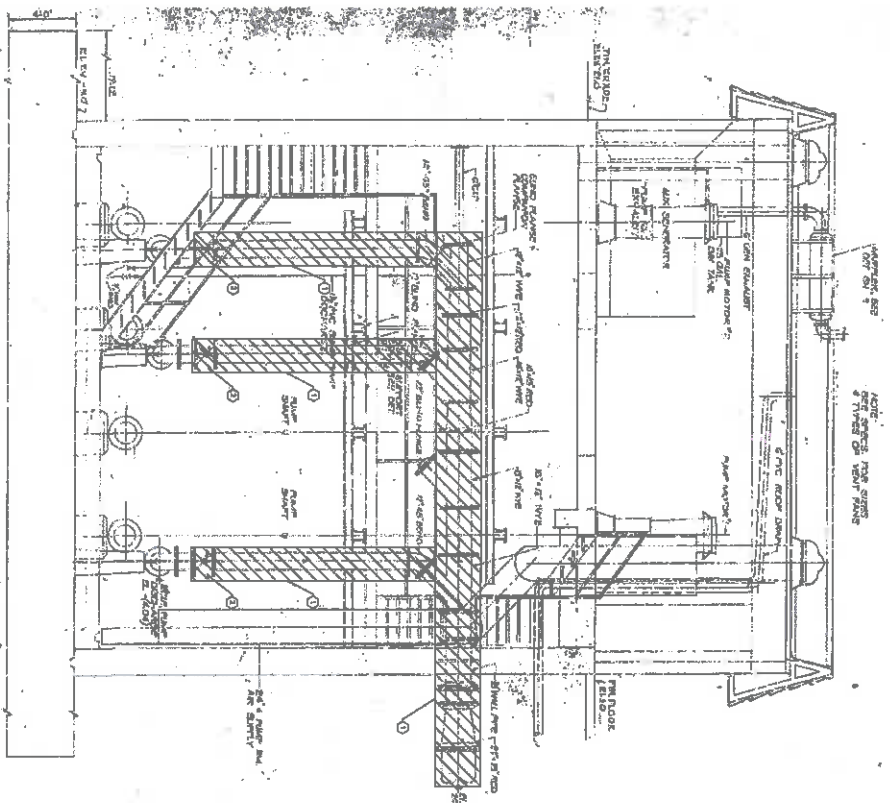
SIDEWALK PLAN (60TH AVE W)

SHEET NUMBER
35

GROUNDWATER / WATER TABLE

RESULTS OF GROUNDWATER MONITORING FOR THIS PROJECT ARE SHOWN ON THE ATTACHED GROUNDWATER MONITORING REPORT. THE RESULTS OF THIS MONITORING INDICATE THAT THERE IS NO SIGNIFICANT GROUNDWATER CONTAMINATION AT THIS LOCATION.



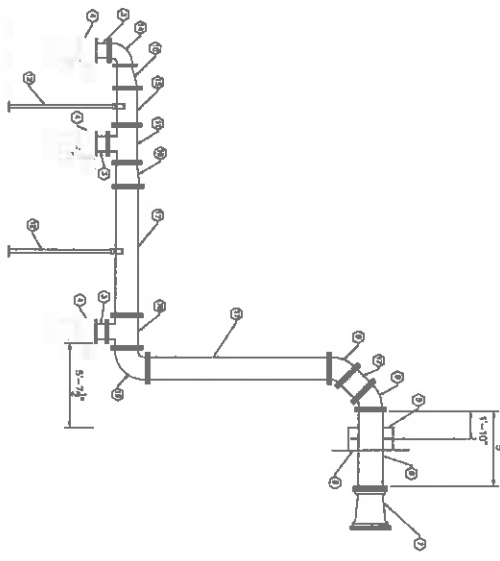


EXISTING LS 13A WET WELL SECTION

1

PROPOSED VALVE RELOCATION

2



- 1. CONTRACTOR SHALL REMOVE EXISTING CONSTRUCTION PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR SHALL NOTIFY OWNER OF REMOVALS.
- 2. CONTRACTOR SHALL VERIFY ALL PRELIMINARY MEASUREMENTS AND DIMENSIONS AND EQUIPMENT UTILITIES STRUCTURES AND CONSTRUCTION.
- 3. CONTRACTOR SHALL SUBMIT A CONSTRUCTION SCHEDULE AS PART OF HIS SUBMITTAL TO BE REVIEWED AND APPROVED BY THE OWNER.
- 4. ALL EXISTING MECHANICAL PIPING AND EQUIPMENT SHALL BE REMOVED AND SALVAGED PER OWNER'S INSTRUCTIONS.
- 5. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.

Kimley-Horn

2018 CONSULTING AND ASSOCIATES, INC.
 635 NORTH FRANKLIN STREET, SUITE 100, TAMPA, FL 33602
 PHONE: 813-421-1400
 WWW.KIMLEY-HORN.COM CA 02000026

PROJECT NO. 18-0000000000
 SHEET NO. 36
 DATE: 02/01/2017
 BY: JMW

KIM PROJECT
 DATE: 2/1/17
 DRAWN BY: JMW
 CHECKED BY: JMW
 DESIGNED BY: JMW

FORCE MAIN 13A REPLACEMENT

UPPERED PROFESSIONAL
 JOSEPH K. WILSON, P.E.
 R. DANIEL WILSON
 728552

HEADER PIPING PLAN

SHEET NUMBER
 36



GROUNDWATER / DEWATERING NOTE:
 1. THE GROUNDWATER TABLE IS SHOWN ON THIS SHEET FOR INFORMATION ONLY. THE GROUNDWATER TABLE IS NOT TO BE USED FOR DESIGN PURPOSES. THE GROUNDWATER TABLE IS SUBJECT TO CHANGE AND SHOULD BE MONITORED THROUGHOUT THE PROJECT.