

UTILITY PERMIT

PERMIT NO: 2019-H-194-00121

STATE ROAD INFORMATION

County: Sarasota	Section: 17075000	State Road No: SR 93	Beginning Mile Post: 35.719	Ending Mile Post: 35.719
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APPLICANT INFORMATION

The Utility Agency Owner (UAO) shall be identified in this Applicant Information Box. When the UAO is a City or County and desires to have the Utility Builder make a joint permit applicant, as prescribed in Section 2.1(4) of the 2017 Utility Accommodation Manual (UAM), the Utility Builder shall also be identified in this Applicant Information Box. A Utility Builder alone cannot apply for a utility permit without the City or County adding them as a joint applicant.

<u>Utility Agency/Owner (UAO)</u>		<u>Utility Builder (only applicable when the UAO is a City or County)</u>	
Name:	<u>Sarasota County Utilities</u>	Name:	_____
Contact Person:	<u>Sarasota County Utilities</u>	Contact Person:	_____
Address:	<u>1001 Sarasota Center Blvd.</u>	Address:	_____
City:	<u>Sarasota</u>	City:	_____
State:	<u>Florida</u>	State:	_____
Zip:	<u>34240</u>	Zip:	_____
Telephone:	<u>9418610582</u>	Telephone:	_____
Email:	<u>mmehan@scgov.net</u>	Email:	_____

WORK DESCRIPTION

The Applicant(s) requests permission from the Florida Department of Transportation (FDOT) to construct, operate, and maintain the utilities as described below and as depicted in the incorporated documentation.

This project includes constructing a 30-inch water main from Sarasota County's Pump Station No. 5 (located at the intersection of Cattleman Road and Proctor Road), southeast along Proctor Road, south along Dove Avenue, east along Hawkins Road, southeast along Clark Road (within proposed easements) to the terminus point of the PRMRWSA Phase 3B pipeline, just east of Cow Pen Slough. This permit relates to one (1) FDOT crossing. Approximately 1,100 LF of 30-inch water main wi ... (see work description cont. page)

Utility Work No: _____

Additional sheets are attached and are incorporated into this permit Yes No

For FDEP certification, the FDOT agency report is attached in accordance with UAM Section 2.4.1 (13) Yes No

TRAFFIC CONTROL (TCP)

The TCP will comply with the following 600 series index(es) 600, 601, 602, 605

A TCP has been attached and incorporated into this permit application in compliance with UAM Section 2.4.2.

MOT Technician's contact information (may be supplied at the two (2) business day notification to FDOT):

Name: _____ Telephone: _____ Email: _____

COMMENCEMENT OF WORK

The UAO and/or Utility Builder shall commence actual construction in good faith within sixty (60) calendar days after approval of the permit application. If the beginning date is more than sixty (60) calendar days from the date of approval, the UAO and/or Utility Builder must review the permit with the FDOT Approving Engineer listed to make sure no changes have occurred to the transportation facility that would affect the permit's continued approval. The UAO and/or Utility Builder shall make good faith efforts to expedite the work and complete the work within the calendar days indicated.

Anticipated Start Date: 7/1/2019

Calendar days needed to completed: 730

Approved
2019-H-194-00121
Leon Herndon
4/8/2019

Florida Department of Transportation
UTILITY PERMIT

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APPLICANT SIGNATURE

By the below signature(s) the UAO and/or Utility Builder agree(s) to construct, operate, and maintain the work as noted in the above Work Description, shown in plans and incorporated documents, in compliance with the UAM, all instructions noted in the FDOT Special Instructions Box, and special instructions incorporated into this permit. The UAO and/or Utility Builder declares, the location of all existing utilities that it owns or has an interest in, both aerial and underground, are accurately shown on the plans of the work areas. In accordance with UAM Section 2.8, the UAO and/or Utility Builder further declares that a letter of notification was delivered to the owners of other facilities within the work areas and that those listed below are the only facility owners known to be involved or potentially impacted by the proposed work.

Date Notified:	Name of other facility owners (attach additional sheets if necessary).
<u>4/18/2018</u>	<u>Sarasota County Utilities</u>
<u>3/30/2018</u>	<u>Sarasota County Traffic</u>
<u>10/11/2018</u>	<u>FDOT Electric and Fiber</u>
<u>10/11/2018</u>	<u>Florida Power and Light</u>
<u>10/11/2018</u>	<u>Frontier Communications</u>

Utility Agency/Owner

Utility Builder (when applicable)

Signature: DEMAR MACHUCA (digital signature) Date: 3/25/2019
 Name (printed): DEMAR MACHUCA
 Title: _____

Signature: _____ Date: _____
 Name (printed): _____
 Title: _____

FDOT PROJECT INFORMATION

Pursuant to UAM Section 2.1(10), the utility work is within FDOT projects listed below and must have a Utility Work Schedule for each project approved prior to commencement of work within the FDOT project limits:

**There are NO FDOT constructions (proposed or underway).
This work is NOT related to an approved utility work Schedule.**

FDOT SPECIAL INSTRUCTIONS

In accordance with UAM Section 2.7, FDOT incorporates the below and attached special instructions into this permit.

- 1. PERMIT VOID UNLESS DOT MANATEE OPERATIONS OFFICE IS NOTIFIED 48 HOURS IN ADVANCE OF STARTING WORK. PHONE: (941) 708-4400**
- 2. LIMITS, THE PERMITTEE MUST SUBMIT THROUGH VALERIE EVERTS AT 941-708-4433/ IF A LANE CLOSURE IS WITHIN THE PROJECT TWO WEEKS PRIOR FOR A REQUESTED LANE CLOSURE TO INFORM THE MOTORING PUBLIC. FAILURE TO COMPLY MAY RESULT IN A DELAY TO BEGIN WORK.**

Additional FDOT Special Instructions are attached and incorporated into this permit. Yes No

PERMIT APPROVAL

By signature below, FDOT gives permission to the UAO and /or Utility Builder to construct, operate, and maintain the utilities indicated in this Utility Permit in compliance with the UAM, all incorporated documents, and special instructions. Any changes to the approved work must be approved by the FDOT's Approving Engineer and attached and incorporated into this permit in accordance with UAM Section 2.11.

Approving Engineer: Leon Herndon (digital signature) Date: 4/8/2019
 Name: Leon Herndon
 Title: PERMITS COORDINATOR I

Notification of Utility Work to be provided to: Telephone (941) 708-4400 ext. 4436 or Email: leon.herndon@dot.state.fl.us

An FDOT Representative is required to be present on the worksite prior to commencement of work. Yes No

Rep. Name: _____ Telephone _____ Email: _____

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The complete Work Description could not fit in the space allotted on Page 1 of the Utility Permit so it is displayed below.

Work Description

This project includes constructing a 30-inch water main from Sarasota County's Pump Station No. 5 (located at the intersection of Cattleman Road and Proctor Road), southeast along Proctor Road, south along Dove Avenue, east along Hawkins Road, southeast along Clark Road (within proposed easements) to the terminus point of the PRMRWSA Phase 3B pipeline, just east of Cow Pen Slough.

This permit relates to one (1) FDOT crossing. Approximately 1,100 LF of 30-inch water main will cross I-75 via Horizontal Directional Drill (HDD).

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STATE ROAD INFORMATION:

NAME OF OTHER FACILITY OWNERS / DATE NOTIFIED:

Facility Name: Teco Peoples Gas, Date Notified: 10/11/2018, Facility Name: Comcast Cable, Date Notified: 10/11/2018

FDOT PROJECT INFORMATION:

There are NO FDOT constructions (proposed or underway).
This work is NOT related to an approved Utility Work Schedule.

THE WORK WAS INSPECTED AND FOUND TO BE IN NON-COMPLIANCE AS NOTED BELOW:

Approved
2019-H-194-00121
Leon Herndon
4/8/2019

FDOT PERMIT PLANS FOR PEACE RIVER INTERCONNECT AND POTABLE WATER TRANSMISSION MAIN

SARASOTA COUNTY, FLORIDA

FEBRUARY 2019

SARASOTA COUNTY CIP #88024



SHEET LIST TABLE	
Sheet Number	Sheet Title
01	COVER SHEET
02	GENERAL NOTES
03	GENERAL NOTES
03A	SOIL BORING PROFILES - 1 OF 2
03B	SOIL BORING PROFILES - 2 OF 2
04	KEY SHEET
PROCTOR ROAD - DOVE AVENUE	
05	STA 10+00.00 TO 14+00.00
06	STA 14+00.00 TO 19+00.00
07	STA 19+00.00 TO 24+00.00
08	STA 24+00.00 TO 29+00.00
09	STA 131+00.00 TO 136+00.00
21	STA 136+00.00 TO 144+00.00
DETAILS	
74	CONSTRUCTION DETAILS
75	CONSTRUCTION DETAILS

PROJECT TEAM:

OWNER:

SARASOTA COUNTY
1001 SARASOTA CENTER BOULEVARD
SARASOTA, FL 34240
CONTACT: JAIMOL CHARLES
941-448-8991

SURVEYOR:

HYATT SURVEYING SERVICES INC.
2012 LENA ROAD
BRADENTON, FLORIDA 34211
CONTACT: JOHN MATTHEWS
941-748-4693

ENGINEER:

KIMLEY-HORN AND ASSOCIATES, INC.
1777 MAIN STREET, SUITE 200
SARASOTA, FL 34236
CONTACT: ASHLEY MIELE, P.E.
941-379-7600

GEOTECH:

UNIVERSAL ENGINEERING SCIENCES
1748 INDEPENDENCE BOULEVARD #B1
SARASOTA, FLORIDA, 34234
CONTACT: ROBERT GOMEZ, P.E.
941-358-7410

UTILITY CONTACTS:

FLORIDA POWER & LIGHT
GREG COKER
1253 12TH AVENUE EAST
PALMETTO, FL 34221
941-723-4430

SARASOTA COUNTY UTILITIES DEPARTMENT
1001 SARASOTA CENTER BOULEVARD
SARASOTA, FL 34240
941-480-3333

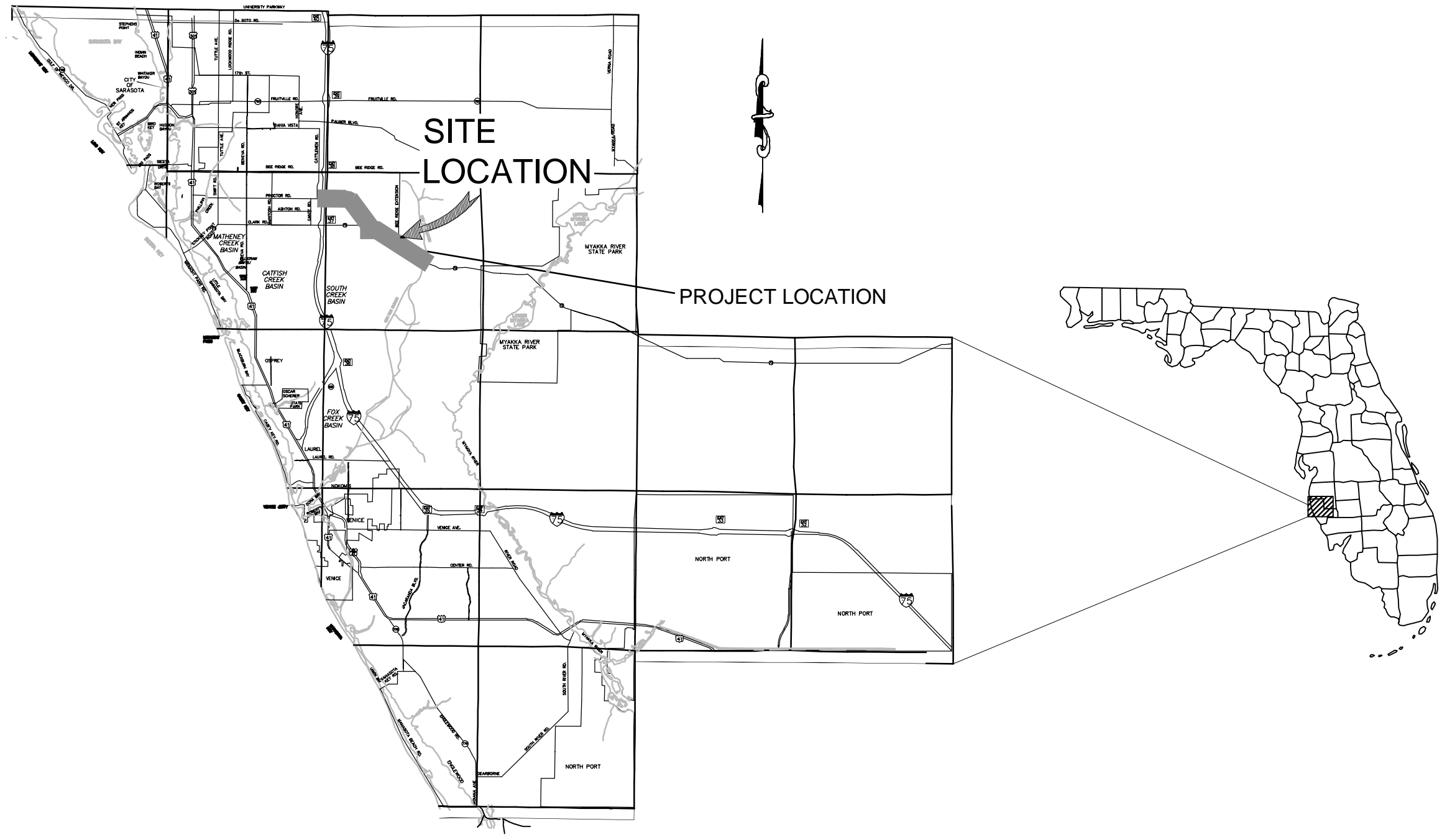
FRONTIER COMMUNICATIONS
GARY REEVE
1701 RINGLING BLVD.
SARASOTA, FL 34236
941-955-2908

COMCAST CABLE
GONZALO ROJAS
3490 TECHNOLOGY DRIVE
VENICE, FL 34275
941-342-3578

CROWN CASTLE FIBER
800-364-1063

TECO PEOPLES GAS
DANNY SHANAHAN
8261 VICO COURT
SARASOTA, FL 34240
941-342-4006

FLORIDA DEPARTMENT OF TRANSPORTATION
CURTIS VILT
14000 SR 64 EAST
BRADENTON, FL 34212
941-708-4447



PROJECT VICINITY MAP
N.T.S.

NOTES:

1. PLAN ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
2. THE SITE CONSTRUCTION STAKEOUT SHALL BE PERFORMED UNDER THE DIRECTION OF A FLORIDA REGISTERED SURVEYOR. AUTOCAD FILES WILL BE FURNISHED TO AID IN THE SITE CONSTRUCTION STAKEOUT. ANY DISCREPANCIES FOUND BETWEEN AUTOCAD FILES AND SITE CONSTRUCTION PLANS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR CLARIFICATION PRIOR TO THAT STAKEOUT.

**PERMIT PLANS
NOT FOR CONSTRUCTION**

PREPARED BY
Kimley»Horn

© 2018 KIMLEY-HORN AND ASSOCIATES, INC.
1777 MAIN STREET, SUITE 200,
SARASOTA, FL 34236
PHONE (941) 379-7600
WWW.KIMLEY-HORN.COM CA 00000696

No.	REVISIONS	DATE	BY

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<p>ASHLEY M. MIELE, P.E. FLORIDA LICENSE NUMBER: 66476</p>	<p>DATE:</p>

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GENERAL

- 1. ALL CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH SARASOTA COUNTY.
2. SITE VISITS PRIOR TO BIDDING SHALL BE ARRANGED THROUGH THE COUNTY'S PROCUREMENT DIVISION.
3. ALL CONSTRUCTION ON THIS PROJECT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF SARASOTA COUNTY UNIFORM WATER, WASTEWATER, AND RECLAIMED WATER SYSTEMS CODE AND TRANSPORTATION ENGINEERING AND OPERATIONS STANDARDS AND/OR FDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" UNLESS OTHERWISE INDICATED ON THE PLANS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL CONDITIONS AND REQUIREMENTS OF ALL PERMITS AND ALL GOVERNING FEDERAL, STATE, AND LOCAL AGENCIES. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS THAT ARE NOT PROVIDED IN THE BID DOCUMENTS, AT NO ADDITIONAL COST TO THE OWNER.
5. THE INFORMATION PROVIDED IN THESE PLANS AND CONTRACT DOCUMENTS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF THE CONDITIONS WHICH MAY BE ENCOUNTERED DURING THE COURSE OF WORK. ALL CONTRACTORS ARE DIRECTED PRIOR TO BIDDING TO CONDUCT WHATEVER INVESTIGATION THEY MAY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSIONS REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH THEIR BIDS WILL BE BASED.
6. THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS ON THE PLANS AND REVIEW ALL FIELD CONDITIONS THAT MAY AFFECT CONSTRUCTION. SHOULD DISCREPANCIES OCCUR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO OBTAIN THE ENGINEER'S CLARIFICATION BEFORE COMMENCING WITH CONSTRUCTION.
7. THE CONTRACTOR SHALL NOTIFY SUNSHINE 811 (1-800-432-4776) AT LEAST 2 FULL BUSINESS DAYS PRIOR TO CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL UTILITIES FOR THE POSSIBLE RELOCATION OR THE TEMPORARY MOVEMENT OF ANY EXISTING UTILITIES WITHIN THE RIGHTS-OF-WAY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT EXISTING UTILITIES FROM DAMAGE. EXPLORATORY EXCAVATION MAY BE REQUIRED PRIOR TO CONNECTION TO EXISTING UTILITIES.
8. THE CONTRACTOR SHALL PROVIDE CERTIFIED RECORD DRAWINGS AS OUTLINED IN THE SPECIFICATIONS. RED-LINE DRAWINGS SHALL BE CURRENT WITH EACH PAY APPLICATION SUBMITTED AND WILL BE CHECKED AS PART OF THE PAY APPLICATION REVIEW PROCESS. PAYMENT WILL NOT BE MADE TO CONTRACTOR WITHOUT APPROVED RED-LINE DRAWINGS. THE MOST CURRENT SET OF RED-LINE DRAWINGS SHALL ALSO BE BROUGHT TO EACH MONTHLY PROGRESS MEETING.
9. ALL PROPOSED WORK SHALL BE COORDINATED WITH SARASOTA COUNTY UTILITIES DEPARTMENT AT LEAST TWO WEEKS IN ADVANCE OF PROPOSED CONSTRUCTION.
10. THE CONTRACTOR SHALL FURNISH SHOP DRAWINGS TO THE ENGINEER FOR REVIEW OF ALL PIPE CONNECTIONS, TRANSITIONS, AND SPECIAL APPURTENANCES PRIOR TO FABRICATION OR DELIVERY TO THE JOB SITE.
11. UNLESS OTHERWISE INDICATED OR APPROVED, ALL BELOW GROUND DUCTILE IRON PIPE SHALL HAVE PUSH-ON OR MECHANICAL JOINTS, AND ALL ABOVE GROUND DUCTILE IRON PIPE SHALL HAVE FLANGED JOINTS. ALL JOINTS SHALL BE FULLY RESTRAINED PER THE DETAILS IN THESE PLANS.
12. WATER MAINS CROSSING OVER OR UNDER GRAVITY SEWERS OR FORCE MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 12" BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE. WHERE THIS MINIMUM SEPARATION CANNOT BE MAINTAINED, THE CROSSING SHALL BE ARRANGED SO THAT THE SEWER OR FORCE MAIN PIPE JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING WITH NO LESS THAN 10' BETWEEN ANY TWO JOINTS. AS AN ALTERNATIVE, THE SEWER OR FORCE MAIN MAY BE PLACED IN A WATERTIGHT CASING PIPE, CONSISTENT WITH F.A.C. RULE 62-555.314.
13. ALL BELOW-GRADE FITTINGS 4-INCHES AND GREATER IN DIAMETER SHALL BE MECHANICAL JOINT DUCTILE IRON WITH INTERIOR CEMENT LINING AND COAL TAR ENAMEL SEAL COAT IN ACCORDANCE WITH THE LATEST EDITION OF THE SARASOTA COUNTY UNIFORM WATER, WASTEWATER, AND RECLAIMED WATER SYSTEMS CODE.
14. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO SECURE PROPERTY FOR LAY DOWN AREAS AND STAGING. THE COUNTY WILL COORDINATE AND ADVISE, TO HELP IDENTIFY POSSIBLE PARCELS. IT IS FINALLY THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE NEEDED AREAS, AND THE COUNTY TAKES NO RESPONSIBILITY FOR DELAYS IN THIS REGARD.
15. COORDINATION AND PUBLIC INFORMATION FOR AND WITH AREA RESIDENTS ARE OF THE UTMOST IMPORTANCE. CONTRACTOR WILL ENSURE ADHERENCE TO THE COUNTY'S NOISE ORDINANCE, HAZARD AND SAFETY, AND NUISANCE ABATEMENT DIRECTIONS, PLANS, OBJECTIONS AND ORDINANCES. THE ENGINEER WILL HAVE THE FINAL DISCRETION IN THIS REGARD, AS REPRESENTED ONSITE BY THE COUNTY INSPECTOR AND ENGINEER'S STAFF.

SAFETY

- 16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THE FLORIDA TRENCH SAFETY ACT, 90-96, LAWS OF FLORIDA EFFECTIVE OCTOBER 1, 1990 AND THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION EXCAVATION SAFETY STANDARDS, 29 CFR 1926.650, SUBPART P, AS AMENDED. THE CONTRACTOR SHALL INCLUDE IN THE TOTAL BID PRICE ALL COSTS FOR COMPLIANCE WITH THESE REGULATIONS.
17. THE CONTRACTOR SHALL USE SHEET PILING, SHEETING, BRACING, ETC., AS REQUIRED IN ALL EXCAVATION AREAS AND SHALL CONFORM TO ALL OSHA REQUIREMENTS.
18. THE CONTRACTOR SHALL USE ALL NECESSARY SAFETY PRECAUTIONS TO AVOID CONTACT WITH OVERHEAD AND UNDERGROUND UTILITIES, POWER LINES, ETC.
19. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. THIS EXCLUSION DOES NOT ALLEVIATE THE CONTRACTOR FROM PROVIDING A CONTINUOUS SAFE WORKSPACE.

ENVIRONMENTAL

- 20. WHEN A BENTONITE SPILL OR FRACK-OUT OCCURS OR THERE IS A LOSS OF RETURN INDICATING EXCESSIVE SEEPAGE OR LOSS OF DRILLING FLUID, DRILLING MUST BE STOPPED UNTIL THE LOCATION OF THE SPILL IS IDENTIFIED. UNDER NO CIRCUMSTANCES WILL DRILLING CONTINUE WHEN A SPILL IS APPARENT.
21. ONCE THE SPILL OR FRACK-OUT IS LOCATED, BENTONITE SPILLS SHALL BE ISOLATED AND SEEPAGE INTO ANY NEARBY WATER BODIES WILL BE BLOCKED DEPENDING ON THE DEGREE OF THE SPILL. THE ISOLATED BENTONITE MUST BE REMOVED MANUALLY OR MECHANICALLY AND DISPOSED OF BY APPROPRIATE MEANS OR REUSED.
22. THE CONTRACTOR SHALL PREPARE A SEDIMENT AND EROSION CONTROL PLAN FOR THE PROJECT AND SUBMIT TO THE COUNTY FOR REVIEW AND ACCEPTANCE. A MINIMUM OF 10 BUSINESS DAYS PRIOR TO BREAKING GROUND, THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY STORM WATER, EROSION, AND SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH THE FDEP "FLORIDA STORM WATER, EROSION AND SEDIMENTATION CONTROL INSPECTOR'S MANUAL". IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTROL AND PREVENT EROSION AND TRANSPORT OF SEDIMENT TO SURFACE DRAINS AND TO DITCHES DURING CONSTRUCTION.
23. STOCKPILES SHALL BE PROTECTED AT ALL TIMES BY ON-SITE DRAINAGE CONTROLS WHICH PREVENT EROSION OF THE STOCKPILED MATERIAL. CONTROL OF DUST FROM SUCH STOCKPILES IS REQUIRED, DEPENDING UPON THEIR LOCATION AND THE EXPECTED LENGTH OF TIME THE STOCKPILES WILL BE PRESENT. IN NO CASE SHALL ANY STOCKPILED MATERIAL REMAIN AFTER THIRTY (30) CALENDAR DAYS.
24. STORM WATER INLETS IN THE VICINITY OF THE PROJECT SHALL BE PROTECTED BY SEDIMENT TRAPS, SUCH AS SECURED ARTIFICIAL HAY BALES, WHICH SHALL BE MAINTAINED AND MODIFIED AS REQUIRED BY CONSTRUCTION PROGRESS, AND WHICH MUST BE APPROVED BY THE ENGINEER BEFORE INSTALLATION. THIS WILL BE MAINTAINED TO PREVENT DEGRADATION OF THE WATERS OF THE COUNTY AND STATE.
25. SEDIMENT BASINS AND TRAPS, PERIMETER BERMS, SEDIMENT BARRIERS, VEGETATIVE BUFFERS, AND OTHER MEASURES INTENDED TO TRAP SEDIMENT AND/OR PREVENT THE TRANSPORT OF SEDIMENT ONTO ADJACENT PROPERTIES, OR INTO EXISTING BODIES OF WATER, MUST BE INSTALLED, CONSTRUCTED, OR IN THE CASE OF VEGETATIVE BUFFERS, PROTECTED FROM DISTURBANCE, AS A FIRST STEP IN THE LAND ALTERATION PROCESS. SUCH SYSTEMS SHALL BE FULLY OPERABLE BEFORE ANY OTHER DISTURBANCE OF THE SITE BEGINS. EARTHEN STRUCTURES INCLUDING BUT NOT LIMITED TO BERMS, EARTH FILTERS, DAMS OR DIKES SHALL BE STABILIZED AND PROTECTED FROM DRAINAGE DAMAGE OR EROSION WITHIN ONE (1) WEEK OF INSTALLATION.
26. ALL SWALES, DITCHES, AND CHANNELS LEADING FROM THE SITE SHALL BE PROTECTED FROM SILTATION AND EROSION DURING CONSTRUCTION AND BE SODED WITHIN THREE (3) DAYS OF EXCAVATION. SOD SHALL BE AVAILABLE ONSITE OVER THE COURSE OF EXCAVATION.
27. SOIL DISPLACED BY CONSTRUCTION WILL BE REMOVED. EROSION CONTROL SHALL BE IMPLEMENTED IN AREAS WHICH ARE CONSIDERED ENVIRONMENTALLY SENSITIVE. EROSION CONTROL SYSTEMS SHALL BE REQUIRED FOR ALL WORK WITHIN JURISDICTIONAL AREAS. THESE SYSTEMS MAY INCLUDE STAKED HAY BALES, SILT SCREENS, FILTER FABRIC, AND TURBIDITY SCREENS.
28. ALL EROSION AND POLLUTION CONTROL DEVICES SHALL BE CHECKED REGULARLY, ESPECIALLY AFTER EACH RAINFALL AND SHALL BE CLEANED OUT AND/OR REPAIRED AS REQUIRED.
29. THE CONTRACTOR SHALL NOT ENTER UPON OR IN ANY WAY ALTER WETLAND AREAS THAT MAY BE ON OR NEAR THE CONSTRUCTION SITE. ALL WORK IN THE VICINITY OF OPEN WATER AND/OR WETLANDS IS TO BE PERFORMED IN COMPLIANCE WITH THE ENVIRONMENTAL REGULATIONS AND/OR PERMITS FOR THE SITE. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY FINES RESULTING FROM THEIR VIOLATION OF ANY REGULATIONS OR PERMIT CONDITIONS.

- 30. THE CONTRACTOR SHALL NOT STOCKPILE OR STAGE ANY EQUIPMENT OR MATERIALS WITHIN THE WETLAND LIMITS.
31. ALL WETLANDS SHALL BE RESTORED TO EXISTING CONDITIONS.
32. CONTRACTOR SHALL PROVIDE PROTECTIVE MATTING, FUEL CONTAINMENT AND ALL OTHER MATERIALS, EQUIPMENT AND LABOR TO PROTECT THE STAGING AREA DURING CONSTRUCTION.
33. CONTRACTOR SHALL, PRIOR TO BEGINNING CONSTRUCTION, SUBMIT A "FUELING SPILL PREVENTION PLAN" THAT SHALL CLEARLY INDICATE HOW FUEL SPILLS WILL BE PREVENTED WHEN FUELING BOTH WITHIN AND OUTSIDE OF THE STAGING AREA.
RIGHT-OF-WAY
34. ALL CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO WITHIN THE SARASOTA COUNTY AND/OR FLORIDA DEPARTMENT OF TRANSPORTATION RIGHT-OF-WAY AND EASEMENTS.
38. A RIGHT OF ENTRY AGREEMENT SHALL BE OBTAINED BY THE CONSTRUCTION MANAGER FROM THE PROPERTY OWNER BEFORE ANY DRIVEWAY CONSTRUCTION WORK IS DONE OUTSIDE OF THE RIGHT-OF-WAY OR EASEMENT.
39. THE CONTRACTOR SHALL EMPLOY A LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA TO REFERENCE AND RESTORE PROPERTY CORNER MONUMENTS, PINS, AND LANDMARKS THAT MAY BE DISTURBED BY CONSTRUCTION AT NO ADDITIONAL COST.
40. THE CONTRACTOR, PRIOR TO CONSTRUCTION AND RESTRICTING ANY TRAFFIC, MUST OBTAIN ANY REQUIRED RIGHTS-OF-WAY USE PERMITS AND A TRAFFIC CONTROL PLAN. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS FROM OTHER GOVERNMENTAL AGENCIES HAVING RELEVANT JURISDICTION. ALL MAINTENANCE AND PROTECTION OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE CURRENT F.D.O.T. "MANUAL OF TRAFFIC CONTROL AND SAFE PRACTICES". A TRAFFIC CONTROL PLAN SHALL BE SUPPLIED BY THE CONTRACTOR AT THE PRE-CONSTRUCTION MEETING.
41. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ALL DAMAGED STORM WATER STRUCTURES, PIPING, ENTRANCE PIPE AND HEADWALLS WHETHER SHOWN ON THE PLANS OR NOT. THE HEADWALLS SHALL BE REPLACED IN ACCORDANCE WITH F.D.O.T. STANDARDS.
42. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH IN THE FIELD THE RIGHT-OF-WAY LINES, BASE LINES, BENCH MARKS (ELEV.), CENTER LINES, AND STATIONING AS REQUIRED TO CONSTRUCT THIS PROJECT.
43. THE CONTRACTOR SHALL COORDINATE THE CUTTING OF DRIVEWAYS WITH THE PROPERTY OWNER PRIOR TO CUT. ALL DRIVEWAYS WILL BE IN PASSABLE CONDITION AT THE END OF THE WORK DAY AND FULLY RESTORED PER DRIVEWAY REPAIR DETAIL. CONCRETE DRIVEWAYS WITHIN F.D.O.T. RIGHT-OF-WAY SHALL BE RESTORED TO MATCH EXISTING ACCORDING TO THE CURRENT EDITIONS OF THE F.D.O.T. SPECIFICATIONS FOR ROAD AND BRIDGE DESIGN, LATEST EDITION.

UTILITIES

- 44. LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT. THERE MAY BE OTHER IMPROVEMENTS, UTILITIES, ETC. WHICH ARE WITHIN THE PROJECT AREA AND WHICH HAVE NOT BEEN LOCATED OR IDENTIFIED, MAY NOT BE IN THE EXACT LOCATION SHOWN OR RELOCATED SINCE THE PREPARATION OF THESE PLANS. THE CONTRACTOR SHALL VERIFY, PRIOR TO CONSTRUCTION, THE LOCATIONS, ELEVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES STRUCTURES AND OTHER FEATURES (WHETHER OR NOT SHOWN ON THE PLANS) THAT MAY AFFECT THEIR WORK. ALL EXISTING UTILITIES TO BE EXTENDED, CROSSED OR CONNECTION POINTS SHALL BE EXPOSED PRIOR TO CONSTRUCTION TO VERIFY LOCATION AND ELEVATION. ANY DISCREPANCIES OR CONFLICTS FOUND SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR RESOLUTION.
45. THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, WATER AND SEWER LINES, STORM DRAINS, UTILITIES, DRIVEWAYS, SIDEWALKS, SIGNS, MAIL BOXES, FENCES, TREES, LANDSCAPING, AND ANY OTHER IMPROVEMENT OR FACILITY IN THE CONSTRUCTION AREA. THE CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY DAMAGED ITEM DUE TO THEIR CONSTRUCTION ACTIVITIES TO EQUAL OR BETTER THAN PRE-CONSTRUCTION CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.
46. THE CONTRACTOR SHALL USE APPROPRIATE TECHNIQUES, AS APPROVED, RECOMMENDED OR OFFERED BY FLORIDA POWER AND LIGHT TO PREVENT UNDERMINING OF POWER POLES DURING CONSTRUCTION. IF HOLDING OF POWER POLES IS RECOMMENDED OR REQUIRED BY THE UTILITY, THE CONTRACTOR SHALL COORDINATE THIS ACTIVITY WITH THE UTILITY AND BEAR ALL RELATED COSTS.
47. ANY TEMPORARY SHUTDOWNS FOR MODIFICATIONS OF EXISTING UTILITY SYSTEMS THAT MUST REMAIN IN SERVICE DURING CONSTRUCTIONS SHALL BE KEPT TO A MINIMUM AND SHALL BE COORDINATED WITH AND APPROVED BY SARASOTA COUNTY UTILITIES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. IT IS NOTED THAT TEMPORARY SHUTDOWNS MAY BE RESTRICTED TO CERTAIN HOURS AT ANY TIME OF THE DAY OR NIGHT AND WILL BE COMPLETED AT NO ADDITIONAL COST TO THE OWNER.
48. FOR WORK BEING DONE ON EXISTING SANITARY SEWER LINES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE FLOW OF ALL SEWAGE DURING CONSTRUCTION, WHICH MAY REQUIRE BY-PASS PUMPING AND/OR PUMPER TRUCKS. THE CONTRACTOR SHALL SUBMIT A DETAILED BY-PASS PUMPING PLAN PER SECTION 01005.
49. THE ELEVATIONS OF THE UTILITY SERVICES AND LATERALS HAVE BEEN ASSUMED ON THE BASIS OF TYPICAL ANTICIPATED SOIL COVERAGE. CONTRACTOR SHALL NOT RELY ON THIS INFORMATION FOR CONSTRUCTION, BUT SHALL BE RESPONSIBLE FOR FIELD LOCATIONS (HORIZONTAL AND VERTICAL) OF ALL UTILITIES CROSSING THE PROPOSED WATER MAIN. CONTRACTOR SHALL INCLUDE IN THE UNIT COST OF THE SUBJECT WATER MAIN CONSTRUCTION, THE COST OF UTILITY ADJUSTMENTS NECESSARY TO ATTAIN DESIGN MINIMUM SEPARATION FOR UTILITIES CONFLICTING WITH THE CONSTRUCTION OF THE PROPOSED POTABLE AND RECLAIMED WATER MAINS.

RESTORATION

- 50. ALL RESTORATION WORK PERFORMED THROUGHOUT THE PROJECT SHALL CONFORM TO EXISTING LINES AND GRADES UNLESS SHOWN OTHERWISE.
51. ALL DISTURBED GRASSED AREAS SHALL BE SODED UNLESS OTHERWISE INDICATED. THE TYPE OF SOD USED TO REPLACE OWNER MAINTAINED AREAS IN RIGHT-OF-WAY SHALL BE COORDINATED WITH THE PROPERTY OWNER.
52. ALL CONCRETE THRUST BLOCKS INSTALLED FOR TESTING PURPOSES AND NOT REQUIRED FOR THE OPERATION OF THE PIPELINE SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR, PRIOR TO FINAL ACCEPTANCE, AT NO ADDITIONAL COST TO THE OWNER.
53. WHENEVER A PERMANENT ROADWAY SURFACE IS NOT REPLACED IMMEDIATELY AFTER BACKFILLING AND COMPACTION OF THE NEWLY INSTALLED PIPE LINE IN AREAS WHERE TRAFFIC MUST PASS, THE CONTRACTOR SHALL INSTALL A TEMPORARY SURFACE CONSISTING OF NINE INCHES OF COMPACTED LIME ROCK BASE AND A COAT OF ASPHALT EMULSION. PERMANENT ROADWAY REPAIR SHALL BE PERFORMED A MAXIMUM OF TWENTY-ONE CALENDAR DAYS AFTER THE INITIAL OPEN CUTTING.
54. ALL EXISTING FENCES DISTURBED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED AND REINSTALLED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER UNLESS SHOWN TO BE REMOVED ON CONSTRUCTION PLANS.
55. WHERE CONCRETE REPAIRS ARE NECESSARY AND EXPANSION OR CONTRACTION JOINTS ARE PRESENT, CONTRACTOR SHALL REMOVE AND REPLACE CONCRETE UP TO THE NEXT EXPANSION OR CONTRACTION JOINT.

CONSTRUCTION

- 56. THE EXHAUST SYSTEM OF ALL GASOLINE AND DIESEL ENGINES SHALL BE EQUIPPED WITH MUFFLERS THAT MEET THE EQUIPMENT MANUFACTURER'S REQUIREMENTS FOR NOISE SUPPRESSION. THE CONTRACTOR SHALL INSTALL NOISE ABATEMENT Baffles POSITIONED TO BREAK LINE-OF-SITE FROM THE NOISE SOURCE TO AFFECTED RESIDENCES, AS APPROVED BY THE ENGINEER.
57. NO MATERIAL SHALL BE STOCKPILED IN ROADWAYS. ALL DIRT AND DEBRIS, INCLUDING SOILS DISPLACED BY CONSTRUCTION, SHALL BE REMOVED FROM THE JOB SITE DAILY. ROADS SHALL BE SWEEP DAILY AS PART OF DAILY CLEAN UP.
58. THE CONTRACTOR SHALL CONTROL ALL FUGITIVE DUST ORIGINATING ON THIS PROJECT BY WATERING OR OTHER METHODS AS REQUIRED.
59. INGRESS AND EGRESS TO ALL THE PROPERTIES IN THE CONSTRUCTION AREA SHALL BE MAINTAINED AT ALL TIMES.
60. PRIOR APPROVAL WILL BE REQUIRED FOR REMOVAL OR TRIMMING OF ANY TREE WITHIN THE CONSTRUCTION AREA.
61. THE CONTRACTOR SHALL PROVIDE ALL DEWATERING EQUIPMENT NECESSARY TO KEEP ALL EXCAVATIONS DRY. DEWATERING IS REQUIRED TO 18" BELOW TRENCH BOTTOM.
62. ALL PIPING AND FITTINGS USED ON THIS PROJECT SHALL BE AS NOTED ON THE PLANS AND IN THE CONTRACT DOCUMENTS AND SHALL BE INSTALLED TO THE LINES AND GRADES SHOWN ON THE PLANS AND PROFILES.
63. ALL PIPE SHALL BE COLOR CODED TO CONFORM TO SARASOTA COUNTY STANDARDS.

- 64. ALL FITTINGS FOR PRESSURE CLASS-RATED PIPE SHALL BE RESTRAINED DUCTILE IRON. RESTRAINED LENGTHS OF PIPE SHALL ADHERE TO THE REQUIREMENTS AS SHOWN ON THE DETAIL SHEETS.
65. WHERE IT IS NECESSARY TO DEFLECT PIPE EITHER HORIZONTALLY OR VERTICALLY, PIPE DEFLECTION SHALL NOT EXCEED 75% OF THE MANUFACTURER'S MAXIMUM ALLOWABLE RECOMMENDED DEFLECTION.
66. ALL ROCKS OR STONES LARGER THAN SIX INCH DIAMETER SHALL BE REMOVED FROM THE BACKFILL MATERIAL. BACKFILL MATERIAL PLACED WITHIN THE PIPING AND APPURTENANCES TRENCH SHALL NOT CONTAIN ANY STONES LARGER THAN TWO INCH DIAMETER.
67. ONLY SARASOTA COUNTY UTILITIES OPERATIONS STAFF ARE AUTHORIZED TO OPERATE VALVES AND PUMP STATIONS ON COUNTY OWNED AND MAINTAINED UTILITY SYSTEMS.
68. THE CONTRACTOR SHALL COORDINATE WITH SARASOTA COUNTY PERSONNEL, PRIOR TO ANY TEMPORARY WATER SHUT-OFFS DURING WATER MAIN TIE-IN, ETC., TO NOTIFY THE AFFECTED RESIDENTS BY POSTING INFORMATIONAL SIGNS IN THE NEIGHBORHOOD AT LEAST TWO DAYS (48 HRS) PRIOR TO THE WATER SHUT-OFF. WHEN FEASIBLE, "DOOR HANGERS" SHALL BE DELIVERED TO AFFECTED RESIDENCES AT LEAST TWO DAYS (48 HRS) PRIOR TO WATER SHUT-OFF. FOR LARGE PROJECTS WITH HUNDREDS OF HOMES AFFECTED, THE CONTRACTOR SHALL ALSO MAKE EXTENSIVE USE OF THE MEDIA AND SHALL HAVE PRIOR CONTACT WITH HOMEOWNER'S ASSOCIATIONS AND THE COUNTY.
69. ALL TEST POINT PIPING SHALL BE CUT LOOSE FROM THE CORPORATION STOP AND COMPLETELY REMOVED AND DISPOSED OF BY THE CONTRACTOR PRIOR TO FINAL ACCEPTANCE. A CORPORATION STOP PLUG SHALL BE INSTALLED AND THE CORPORATION STOP SHALL REMAIN IN PLACE.
70. ALL EXISTING MAINS THAT ARE BEING REPLACED SHALL BE ABANDONED IN PLACE UPON ACCEPTANCE AND ACTIVATION OF THE NEW MAINS, UNLESS NOTED OTHERWISE. ABANDONED MAINS SHALL BE CUT AND CAPPED. REFER TO SECTION 02600 OF THE SPECIFICATIONS FOR CUT AND CAPPING ABANDONED PIPE.
71. FIELD CONDITIONS MAY NECESSITATE MINOR ALIGNMENT AND GRADE DEVIATION OF THE PROPOSED UTILITIES TO AVOID OBSTACLES, AS APPROVED BY THE ENGINEER.
72. FOR SITES SUSPECTED OF CONTAMINATED GROUNDWATER SARASOTA COUNTY WILL REQUIRE AN APPLICANT TO DEMONSTRATE THAT THE DISCHARGE MEETS THE SARASOTA COUNTY SEWER USE ORDINANCE.
73. DISRUPTIONS TO EXISTING RESIDENTIAL/COMMERCIAL WATER AND SEWER SERVICE SHALL BE KEPT TO A MINIMUM. ALL WATER SERVICE INTERRUPTIONS SHALL BE COORDINATED WITH SARASOTA COUNTY UTILITIES DEPARTMENT IN ACCORDANCE WITH THE COUNTY'S PROCEDURES FOR SHUT DOWNS. IF ANY RECLAIMED OR WATER MAINS INCLUDING SERVICE LINES ARE DAMAGED DURING CONSTRUCTION, THEY SHALL BE REPLACED FROM THE VALVE TO THE OTHER POINT OF CONNECTION OUTSIDE THE ROADWAY PER SARASOTA COUNTY'S STANDARDS. INTERRUPTIONS OF ANY EXISTING UTILITY SERVICES SHALL BE NOTICED TO EFFECTED CUSTOMERS A MINIMUM OF 48 HOURS IN ADVANCE AND SHALL NOT EXCEED 4 HOURS IN DURATION.

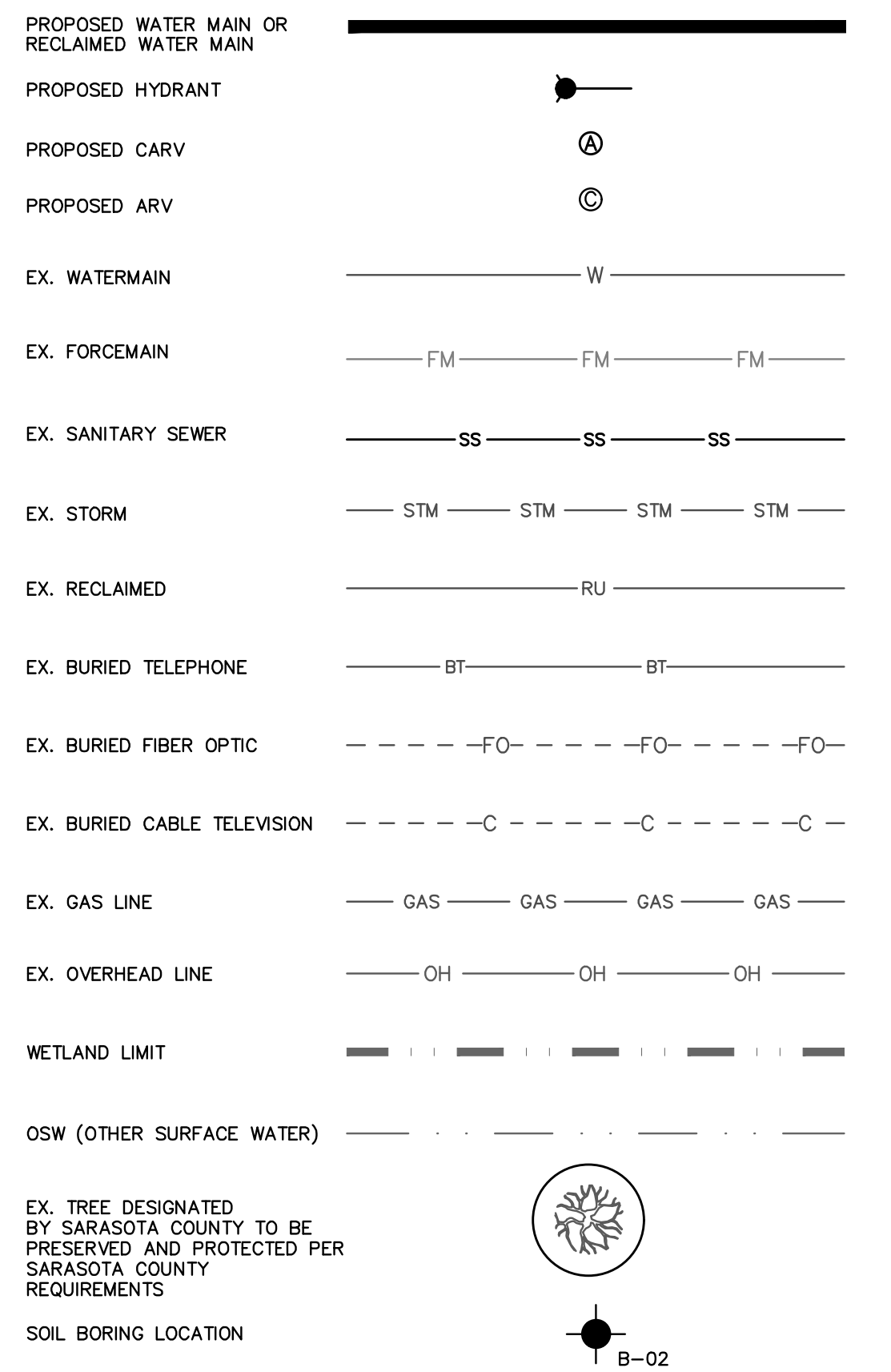
TRAFFIC CONTROL NOTES

- 74. TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH F.D.O.T. DESIGN STANDARDS INDICES NO. 600, 603, 605, 611, 612, 613, 616, AND 660 DEPENDING ON THE OPERATION BEING PERFORMED.
FOR ALL TWO-LANE WORK, TWO-WAY, WORK WITHIN TRAVEL LANE UTILIZE INDEX 603.
FOR ALL TWO-LANE WORK, TWO-WAY, WORK NEAR INTERSECTION UTILIZE INDEX 605.
FOR ALL MULTILANE WORK OUTSIDE SHOULDER UTILIZE INDEX NO. 611.
FOR ALL MULTILANE WORK ON SHOULDER UTILIZE INDEX NO. 612.
FOR ALL MULTILANE WORK WITHIN TRAVEL WAY MEDIAN OR OUTSIDE LANE UTILIZE INDEX NO. 613.
FOR ALL MULTILANE WORK NEAR INTERSECTION MEDIAN OR OUTSIDE LANE UTILIZE INDEX NO. 616.
FOR PEDESTRIAN CONTROL FOR CLOSURE OF SIDEWALK, UTILIZE F.D.O.T. INDEX NO. 660.
75. CONTRACTOR TO COORDINATE WITH ED HERNDON (941) 708-4436 AT F.D.O.T. FOR ALL WORK DONE ON A STATE FACILITY.
76. TO AVOID DISRUPTION DUE TO INCLEMENT WEATHER, THE CONTRACTOR SHOULD PERFORM ANY MILLING AND PAVING OPERATIONS DURING THE SAME WORK PERIOD.
77. ALL EXISTING PAVEMENT MARKINGS OUTSIDE THE CONSTRUCTION LIMITS THAT HAVE BEEN ALTERED BECAUSE OF CONSTRUCTION OPERATIONS SHALL BE REPLACED UPON THE COMPLETION OF THE PROJECT AT THE CONTRACTORS EXPENSE.
78. LANE CLOSURES SHALL OCCUR BETWEEN 9:00 P.M. AND 5:00 A.M., UNLESS LANE CLOSURE CALCULATIONS ARE PROVIDED AND APPROVED OR APPROVAL IS GRANTED BY THE DISTRICT PERMIT ENGINEER.
79. THE CONTRACTOR SHALL SCHEDULE WORK OPERATIONS SO THAT ALL LANES CAN BE RE-OPENED TO TRAFFIC WITHIN A PERIOD OF 24 HOURS IN CASE OF AN EMERGENCY.
80. AT THE END OF EACH WORKDAY OR WHENEVER THE WORK ZONE BECOMES INACTIVE, ANY DROP-OFF ADJACENT TO A SIDEWALK SHALL BE BACKFILLED AT A SLOPE NOT TO EXCEED 1:4, OR SHALL BE PROTECTED IN ACCORDANCE WITH STANDARD INDEX 600
81. ONE PORTABLE VARIABLE MESSAGE SIGN SHALL BE USED IN ADVANCE OF EACH LANE CLOSURE. THE FOLLOWING ARE SUGGESTED MESSAGES TO USE IN THE APPROPRIATE SITUATIONS.
MESSAGE 1
"RIGHT" OR "CENTER" OR "LEFT"
"LANE" "LANE" "LANE"
"CLOSED" "CLOSED" "CLOSED"
82. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMMEDIATE REMOVAL OF STORMWATER FROM ROADWAYS UTILIZED FOR TRAFFIC CONTROL IN A MANNER APPROVED BY THE ENGINEER.
83. AT THE END OF EACH WORKING DAY'S ACTIVITY, TEMPORARY PAVEMENT MARKINGS AND TEMPORARY RAISED PAVEMENT MARKERS SHALL BE INSTALLED PRIOR TO OPENING THE LANES UP FOR TRAFFIC.
84. ALL PAVEMENT MARKINGS, SIGNS, MARKERS, CHANNELIZATION REQUIRED TO PHASE WORK OR SHIFT TRAFFIC, SHALL UTILIZE INDICES FOR PLACEMENT.
85. THE CONTRACTOR SHALL RESTRICT THE OPERATIONS SO THAT THE FIRST LIFT OF ASPHALT IS PLACED ON THE SAME DAY THAT THE LANES ARE MILLED, BEFORE OPENING THE LANES TO TRAFFIC. INSTALL TEMPORARY PAVEMENT MARKINGS AFTER THE FIRST LIFT AND PRIOR TO OPENING.
86. MILLING AND RESURFACING SHALL BE ACCOMPLISHED DURING THE OFF-PEAK HOURS.
87. CONTRACTOR TO MAINTAIN VEHICLE DETECTION IN OPERATION FOR LANES THAT WILL REMAIN OPEN. CONTRACTOR TO COORDINATE ALL VEHICLE DETECTION ISSUES WITH CLARKE DAVIS OF SARASOTA COUNTY AT 941-708-7450, EXT. 7272 OR CLARKE.DAVIS@SARASOTA.ORG
88. MAINTENANCE OF TRAFFIC AND ANY SIGNAL RETIMING WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
89. ANY SIGNAL RETIMING REQUIRED FOR THE INTERSECTIONS IMPACTED BY THE PROJECT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. SIGNAL TIMING MODIFICATIONS TO BE COORDINATED WITH SARASOTA COUNTY TRAFFIC ENGINEERING AND OPERATIONS, ATTENTION BRITTON ORR, COUNTRY TRAFFIC ENGINEERING, AT (941) 861-0892 FOR REVIEW AND APPROVAL AT LEAST 21 WORKING DAYS BEFORE PROPOSED CHANGES. THIS DOES NOT OBLIGE EMERGENCY SITUATIONS, PENDING THE APPROVAL OF THE ENGINEER.
90. DETAILED MAINTENANCE OF TRAFFIC PLANS ARE TO BE SUBMITTED TO SARASOTA COUNTY AND THE ENGINEER, BY THE CONTRACTOR, FOR REVIEW AND APPROVAL A MINIMUM OF 21 WORKING DAYS PRIOR TO PROPOSED IMPLEMENTATION.

ABBREVIATIONS

- MJ -- MECHANICAL JOINT
RJ -- RESTRAINED JOINT
R/W -- RIGHT-OF-WAY
HDD -- HORIZONTAL DIRECTIONAL DRILL
RCP -- REINFORCED CONCRETE PIPE
ARV -- AIR RELEASE VALVE
HDPE -- HIGH DENSITY POLYETHYLENE
PVC -- POLYVINYL CHLORIDE
ST -- STORM DRAIN
EX -- EXISTING
BT -- BURIED TELEPHONE
SS -- SANITARY SEWER
FM -- FORCE MAIN
WM -- WATER MAIN
RW -- RECLAIMED WATER MAIN
ERCP -- ELLIPTICAL CONCRETE PIPE
CMP -- CORRUGATED METAL PIPE
PP -- POLYETHYLENE PIPE
EOP -- EDGE OF PAVEMENT
BTP -- BURIED TELEPHONE

LEGEND



GROUNDWATER / DEWATERING NOTE: THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR THIS ISSUE. WHEN PERFORMING GRADING OPERATIONS DURING PERIODS OF WET WEATHER, PROVIDE ADEQUATE DEWATERING, DRAINAGE AND GROUND WATER MANAGEMENT TO CONTROL MOISTURE OF SOILS.

Table with 4 columns: No., REVISIONS, DATE, BY. Contains a grid for tracking revisions.

Kimley Horn logo and contact information: 1777 MAIN STREET, SUITE 200, SARASOTA, FL 34236. PHONE: 941-379-7600. WWW.KIMLEY-HORN.COM CA 00000696

KHA PROJECT DATE 2/19/2019 SCALE DESIGNED BY JWW DRAWN BY DMA CHECKED BY AMM SARASOTA COUNTY

Sarasota County logo LICENSED PROFESSIONAL ASHLEY M. MIELE, P.E. 66476 FL DATE:

GENERAL NOTES SHEET NUMBER 02 Approved 2019-H-194-00121 Leon Herndon 4/8/2019

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SUBSURFACE UTILITY LIST

SYMBOL NUMBER	EXCAVATION POINT	SHEET NUMBER	MEASURED DEPTH (FEET)	SIZE/ DIAMETER	MATERIAL	UTILITY TYPE	OWNER	COMMENTS
VVH001	TH001	9	3.60	2" (X2)	PVC	ELECTRIC	FPL	GRAY
VVH002	TH002	13	2.55	1.25"	POLY	FOC	FRONTIER	ORANGE W/ BLACK STRIPE
VVH003	TH003	13	2.88	2"	PVC	ELECTRIC	FPL	GRAY
VVH004	TH004	13	4.72	4"	PVC	SAN FM	COUNTY	GREEN
VVH005	TH005	15	6.40	2" (X2)	POLY	ELECTRIC	FPL	BLACK W/ RED STRIPE
VVH006	TH006	14	2.70	1.25"	DBC	TELECOM	UNKNOWN	BLACK DIRECT BURIED CABLE
VVH007	TH007	14	3.77	2"	PVC	ELECTRIC	FPL	GRAY
VVH008	TH008	14	2.36	1.25"	DBC	TELECOM	UNKNOWN	BLACK DIRECT BURIED CABLE
VVH009	TH009	14	1.92	0.75"	DBC	TELECOM	UNKNOWN	BLACK DIRECT BURIED CABLE
VVH010	TH010	14	5.66	8"	PVC	WATER	COUNTY	BLUE
VVH011	TH011	14	5.15	8"	PVC	WATER	COUNTY	BLUE
VVH012	TH012	16	2.57	8"	POLY	WATER	COUNTY	BLACK W/BLUE STRIPE
VVH013	TH013	17	3.36	0.5"	DBC	UNKNOWN	UNKNOWN	BLACK DIRECT BURIED CABLE
VVH014	TH014	17	3.83	24"	CPP	STORM	UNKNOWN	GRAY CORRUGATED PLASTIC
VVH015	TH015	18	1.51	3"	PVC	ELECTRIC	FPL	GRAY
VVH016	TH016	21	3.44	4"	DIP	TELECOM	FRONTIER	BLACK CASING
VVH017	TH017	13	4.30	8"	DIP	WATER	COUNTY	BLACK
VVH018	TH018	13	4.84	2" (X3)	PVC	ELECTRIC	FPL	GRAY
VVH019	TH019	22	4.92	4"	STEEL	UNKNOWN	UNKNOWN	CASING?
VVH020	TH020	23	3.59	8"	POLY	WATER	COUNTY	BLACK W/BLUE STRIPE
VVH021	TH021	23	7.87	2" (X3)	POLY	ELECTRIC	FPL	BLACK W/ RED STRIPE
VVH022	TH022	16	9.35	1.25" (X2)	POLY	FOC	FRONTIER	ORANGE W/ BLACK STRIPE
VVH023	TH023	17	2.48	0.5"	DBC	TELECOM	FRONTIER	BLACK DIRECT BURIED CABLE
VVH024	TH024	24	3.41	1.5"/4"	POLY/PVC	TELECOM	FRONTIER	BLACK/PEACH
VVH025	TH025	37/37R	3.61	4"	POLY	RECLAIMED	COUNTY	BLACK W/ PURPLE STRIPE
VVH026	TH026	37/37R	4.45	4"	POLY	RECLAIMED	COUNTY	BLACK W/ PURPLE STRIPE
VVH027	TH027	38/38R	4.10	4"	PVC	SAN FM	COUNTY	BLACK
VVH028	TH028	43/43R	8.24	8"	PVC	WATER	COUNTY	BLUE
VVH029	TH029	42/42R	6.07	8"	PVC	WATER	COUNTY	BLUE
VVH030	TH030	41/41R	2.37	1.25"	POLY	FOC	FRONTIER	ORANGE W/ BLACK STRIPE
VVH031	TH031	44/44R	5.28	8"	POLY	WATER	COUNTY	BLACK W/BLUE STRIPE
VVH032	TH032	44/44R	4.28	1"	POLY	FOC	FRONTIER	ORANGE W/ BLACK STRIPE
VVH033	TH033	44/44R	4.27	6"	PVC	ELECTRIC	FPL	GRAY
VVH034	TH034	55	3.50	2"	PVC	ELECTRIC	FPL	GRAY
VVH035	TH035	25	8.61	UNKNOWN	UNKNOWN	ELECTRIC	FPL	FOUND WITH WATER PROBE
VVH036	TH036	25	10.0	UNKNOWN	UNKNOWN	ELECTRIC	FPL	ELECTRONIC DEPTH

NOTE:
1. SUE DATA PROVIDED BY ECHEZABAL & ASSOCIATES, INC. DATED 10/18/2018.

SURVEY CONTROL POINT LIST				
DESIGNATION	NORTHING	EASTING	ELEVATION	DESCRIPTION
# 1	1059834.51	531238.88	24.43'	IR (LB 7203)
# 2	1060015.06	530846.91	27.52'	IR (LB 7203)
# 3	1060133.99	530560.24	26.50'	IR (LB 7203)
# 4	1060344.28	530086.89	23.76'	IR (LB 7203)
# 5	1060566.52	529598.41	26.19'	IR (LB 7203)
# 6	1060868.70	529137.94	25.57'	IR (LB 7203)
# 7	1061273.82	528540.75	26.16'	IR (LB 7203)
# 8	1061603.69	528053.85	25.82'	IR (LB 7203)
# 9	1061919.58	527589.26	26.56'	IR (LB 7203)
# 10	1062204.97	527168.39	27.66'	IR (LB 7203)
# 11	1062517.64	526707.70	27.76'	IR (LB 7203)
# 12	1062845.47	526224.69	26.11'	IR (LB 7203)
# 13	1063168.50	525749.58	27.42'	IR (LB 7203)
# 14	1063506.64	525251.93	27.52'	IR (LB 7203)
# 15	1063820.58	524787.61	28.02'	IR (LB 7203)
# 16	1064144.34	524312.39	30.37'	IR (LB 7203)
# 17	1064456.36	523848.67	31.71'	IR (LB 7203)
# 18	1064655.42	523545.16	33.06'	IR (LB 7203)
# 19	1064905.69	523171.89	35.11'	IR (LB 7203)
# 20	1064952.87	522696.95	35.82'	IR (LB 7203)
# 21	1064920.11	522259.85	35.40'	ND (LB 7203)
# 22	1064926.45	521949.82	34.27'	IR (LB 7203)
# 23	1064924.08	521520.03	33.54'	IR (LB 7203)
# 24	1064915.35	521076.51	33.18'	IR (LB 7203)
# 25	1064931.75	520735.76	33.24'	IR (LB 7203)
# 26	1064921.01	520245.47	33.34'	IR (LB 7203)
# 27	1064905.80	519799.69	33.26'	IR (LB 7203)
# 28	1064869.39	519358.93	32.92'	IR (LB 7203)
# 29	1065450.73	519372.75	32.99'	IR (LB 7203)
# 30	1065923.79	519377.06	32.76'	IR (LB 7203)
# 31	1066359.24	519357.40	33.98'	IR (LB 7203)
# 32	1066682.91	519397.33	33.65'	ND (LB 7203)
# 33	1067125.43	519403.46	34.31'	ND (LB 7203)
# 34	1067625.64	519329.32	34.92'	ND (LB 7203)
# 35	1068020.90	519122.51	34.22'	IR (LB 7203)
# 36	1068400.65	518826.66	34.66'	IR (LB 7203)
# 37	1068815.61	518577.42	34.54'	IR (LB 7203)
# 38	1069252.98	518277.53	33.95'	IR (LB 7203)
# 39	1069681.56	517982.62	34.82'	IR (LB 7203)
# 40	1070087.63	517669.17	35.16'	IR (LB 7203)
# 41	1070513.42	517378.76	35.01'	IR (LB 7203)
# 42	1070957.80	517073.94	35.10'	IR (LB 7203)
# 43	1071359.55	516843.15	35.58'	IR (LB 7203)
# 44	1071799.03	516541.54	35.46'	ND (LB 7203)
# 45	1072217.32	516229.72	36.02'	IR (LB 7203)
# 46	1072496.22'	515805.78'	34.98'	IR (LB 7203)
# 47	1072578.16	515309.99	33.70'	ND (LB 7203)
# 48	1072536.99	514800.41	33.15'	ND (LB 7203)
# 49	1072579.58	514274.74	32.10'	IR (LB 7203)
# 50	1072535.46	513755.93	30.33'	IR (LB 7203)
# 51	1072586.48	513199.78	29.09'	ND (LB 7203)
# 52	1072599.35	512702.14	26.57'	IR (LB 7203)
# 53	1072589.42	512174.59	26.69'	IR (LB 7203)
# 54	1072600.20	511655.09	26.81'	IR (LB 7203)
# 55	1072573.70'	511146.64'	31.45'	IR (LB 7203)
# 56	1072593.08'	510811.25'	45.54'	ND (LB 7203)
# 57	1072600.23'	510571.99'	53.90'	ND (LB 7203)
# 58	1072512.44	510438.31	31.50'	ND (LB 7203)
# 59	1072604.66	510279.18	54.23'	ND (LB 7203)
# 60	1072606.48	509835.82	38.30'	IR (LB 7203)
# 61	1072692.72	509679.45	32.22'	IR (LB 7203)

SURVEY LEGEND

- ⊕#5 SURVEY CONTROL POINT
- ↔ RIGHT-OF-WAY
- ▣ PARCEL IDENTIFICATION
- CONCRETE MONUMENT
- IP IRON PIPE
- IR IRON ROD
- NAIL W/ DISC
- 🌴 PALM
- 🌳 OAK
- 🌲 PINE
- 🌳 TREE
- ⊕ SANITARY MANHOLE
- ⊕ DRAINAGE MANHOLE
- ▣ GRATE INLET
- ⊕ FIRE HYDRANT
- ⊕ WATER VALVE
- ⊕ SANITARY / RECLAIM VALVE
- ⊕ WATER METER
- ⊕ BACKFLOW PREVENTER
- ⊕ CLEANOUT
- ⊕ LIGHT POLE
- ⊕ UTILITY POLE
- ⊕ GUY WIRE
- ⊕ SIGN
- ⊕ UTILITY BOX
- ⊕ GAS VALVE
- ⊕ UTILITY RISER
- ⊕ TRAFFIC MASTARM
- ⊕ CROSSING SIGNAL
- ⊕ CABLE SERVICE BOX
- ⊕ ELECTRIC SERVICE BOX

SURVEYORS NOTES

- THIS SURVEY IS REFERENCED TO A GRID PROJECTION OF THE STATE PLANE COORDINATE SYSTEM OF FLORIDA WEST ZONE (NAD 83/11 ADJUSTMENT).
- THE FOLLOWING NGS VERTICAL CONTROL POINTS WERE RECOVERED AND UTILIZED FOR THE ELEVATIONS INDICATED HEREIN:
 - "BEE RIDGE RM 2" NAVD 1988 ELEVATION 25.36'
 - "I75 83 A47 RM 2" NAVD 1988 ELEVATION 32.65'
 - "W 624" NAVD 1988 ELEVATION 33.39'
 - "P 731" NAVD 1988 ELEVATION 33.21'
 - "N 731" NAVD 1988 ELEVATION 26.47'
 - "I75 T 20" NAVD 1988 ELEVATION 57.13'
 - "I75 83 A50 RM 2" NAVD 1988 ELEVATION 56.64'
- TITLE WORK WAS NOT PROVIDED FOR THIS SURVEY.
- THIS SURVEY IS SUBJECT TO PERTINENT EASEMENTS, ADDITIONAL RIGHTS-OF-WAY AND RESTRICTIONS OF RECORD, IF ANY.
- THIS SURVEY DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF THE PARTY OR PARTIES CERTIFIED TO BELOW FOR THE EXPRESS PURPOSE STATED HEREON AND/OR CONTAINED IN THE CONTRACT BETWEEN HYATT SURVEY SERVICES, INC. AND THE CLIENT FOR THIS PROJECT. COPYING, DISTRIBUTING AND/OR USING THIS DRAWING, IN WHOLE OR IN PART FOR ANY PURPOSE OTHER THAN ORIGINALLY INTENDED WITHOUT WRITTEN CONSENT FROM HYATT SURVEY SERVICES, INC IS STRICTLY PROHIBITED AND RENDERS THE SURVEYOR'S CERTIFICATION, SIGNATURE AND SEAL NULL AND VOID. ANY QUESTIONS CONCERNING THE CONTENT OR PURPOSE OF THIS DRAWING SHOULD BE DIRECTED TO HYATT SURVEY SERVICES, INC.

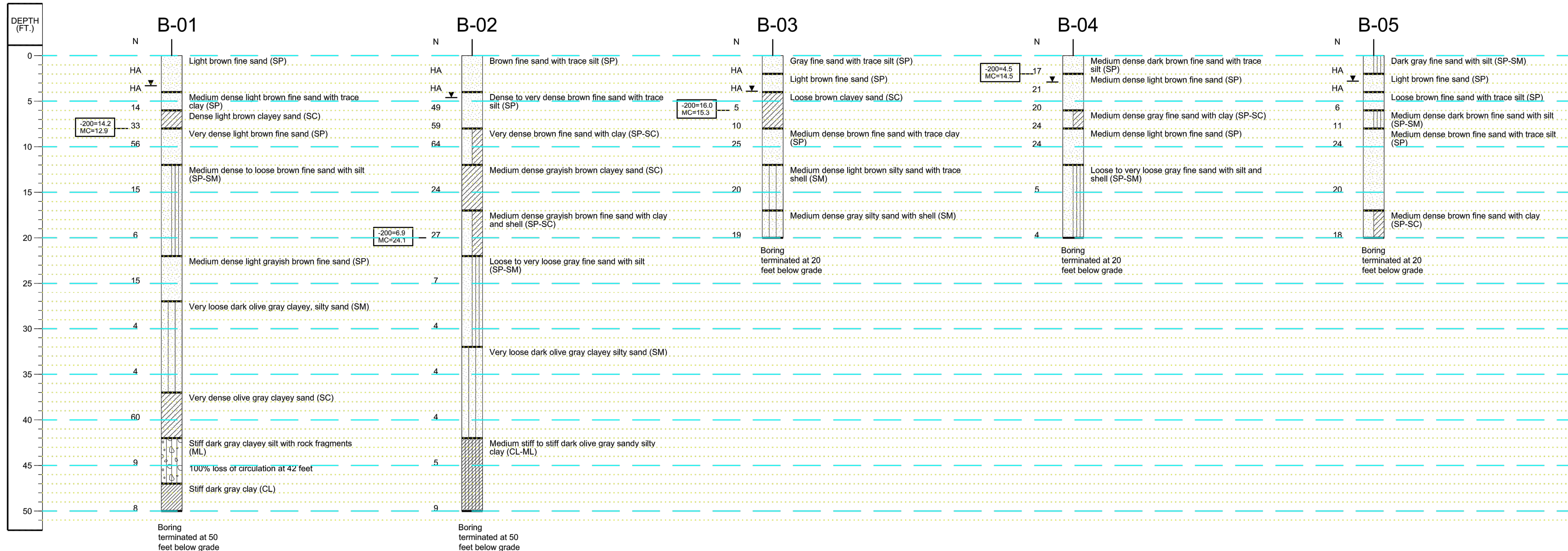
NOTE:
1. SURVEYOR'S NOTES PROVIDED BY HYATT SURVEY SERVICES, INC. DATED 7/11/2018

GROUNDWATER / DEWATERING NOTE:
THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR THIS ISSUE. WHEN PERFORMING GRADING OPERATIONS DURING PERIODS OF WET WEATHER, PROVIDE ADEQUATE DEWATERING, DRAINAGE AND GROUND WATER MANAGEMENT TO CONTROL MOISTURE OF SOILS.



	<p>1777 MAIN STREET, SUITE 200, SARASOTA, FL 34236 PHONE: 941-379-7600 WWW.KIMLEY-HORN.COM CA 00000696</p>	<p>KHA PROJECT</p> <p>DATE: 2/19/2019</p> <p>SCALE:</p> <p>DESIGNED BY: JWW</p> <p>DRAWN BY: DMA</p> <p>CHECKED BY: AMM</p>	<p>PEACE RIVER INTERCONNECT AND POTABLE WATER TRANSMISSION MAIN</p> <p>SARASOTA COUNTY FL</p>	<p>LICENSED PROFESSIONAL</p> <p>ASHLEY M. MIELE, P.E.</p> <p>66476</p>	<p>GENERAL NOTES</p>	<p>SHEET NUMBER</p> <p style="font-size: 24pt; font-weight: bold;">03</p> <p>Approved 2019-H-194-00121 Leon Herndon 4/8/2019</p>
<p>No.</p>	<p>REVISIONS</p>	<p>DATE</p>	<p>BY</p>			

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NOTE:
1. GEOTECHNICAL DATA PROVIDED BY UNIVERSAL ENGINEERING SCIENCES, INC. DATED 9/14/2018

CORRELATION OF STANDARD PENETRATION RESISTANCE WITH RELATIVE DENSITY AND CONSISTENCY OF SOIL

COARSE-GRAINED SOILS-SANDS		FINES - CLAY AND SILT	
CONSISTENCY DESIGNATION	SPT N (BLOWS/FT.)	CONSISTENCY DESIGNATION	SPT N (BLOWS/FT.)
VERY LOOSE	0-4	VERY SOFT	0-1
LOOSE	5-10	SOFT	2-3
MEDIUM DENSE	11-30	MEDIUM STIFF	4-7
DENSE	31-50	STIFF	8-15
VERY DENSE	>50	VERY STIFF	16-31
		HARD	32-50
		VERY HARD	>50

KEY TO BORING LOGS

N STANDARD PENETRATION RESISTANCE (N-VALUE) IN BLOWS (ASTM D1586)

HA HAND AUGER

[SP] BASED ON VISUAL OBSERVATION AND LABORATORY TESTS UNIFIED SOIL CLASSIFICATION SYSTEM GROUP SYMBOL (ASTM D2487) BASED ON VISUAL OBSERVATION AND LABORATORY TESTS

-200 FINES PASSING NO. 200 U.S. STANDARD SIEVE (%)

MC NATURAL MOISTURE CONTENT (%)

▼ GROUND WATER LEVEL MEASURED ON DATE DRILLED (8/22/2018 - 9/6/2018)

NOTES

1. SUBSURFACE VARIATIONS BETWEEN BORINGS SHOULD BE ANTICIPATED AS INDICATED IN SECTION 2-4 OF THE FOOT STANDARD SPECIFICATIONS.

2. ALL SOIL BORING LOCATIONS ARE APPROXIMATE.

No.	REVISIONS	DATE	BY

Kimley»Horn

1777 MAIN STREET, SUITE 200, SARASOTA, FL 34236
PHONE: 941-379-7600
WWW.KIMLEY-HORN.COM CA 00000696

KHA PROJECT
DATE 2/19/2019
SCALE
DESIGNED BY JWW
DRAWN BY DMA
CHECKED BY AMM

Sarasota County

PEACE RIVER INTERCONNECT AND POTABLE WATER TRANSMISSION MAIN

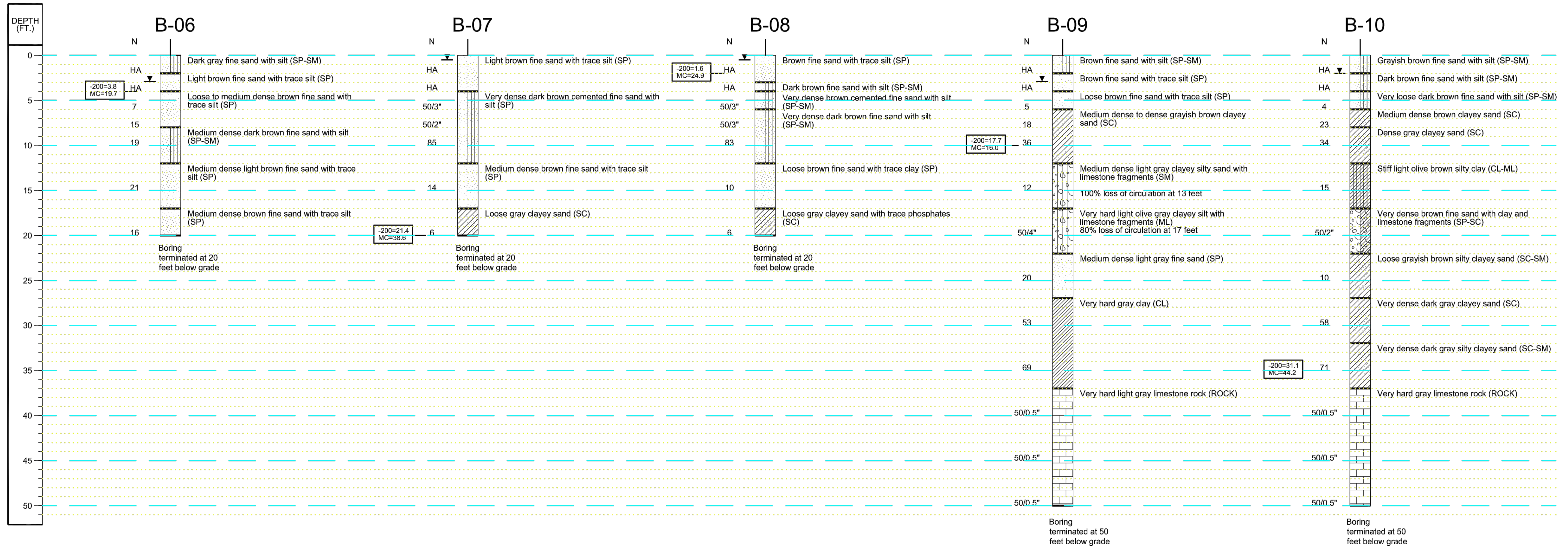
SARASOTA COUNTY

LICENSED PROFESSIONAL
ASHLEY M. MIELE, P.E.
66476
FL DATE:

SOIL BORING PROFILES
1 OF 2

SHEET NUMBER
03A
Approved
2019-H-194-00121
Leon Herndon
4/8/2019

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No.	REVISIONS	DATE	BY

Kimley»Horn

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KHA PROJECT
 DATE 2/19/2019
 SCALE
 DESIGNED BY JWW
 DRAWN BY DMA
 CHECKED BY AMM

Sarasota County

PEACE RIVER INTERCONNECT AND POTABLE WATER TRANSMISSION MAIN

SARASOTA COUNTY

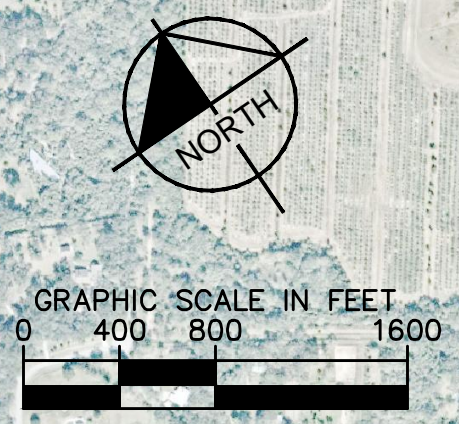
LICENSED PROFESSIONAL
 ASHLEY M. MIELE, P.E.
 66476
 FL DATE:

SOIL BORING PROFILES
2 OF 2

SHEET NUMBER
03B
 Approved
 2019-H-194-00121
 Leon Herndon
 4/8/2019



SARASOTA COUNTY
PUMP STATION NO. 5
WATER MAIN
CONNECTION



**GROUNDWATER /
DEWATERING NOTE:**
THE PRESENCE OF GROUNDWATER
SHOULD BE ANTICIPATED ON THIS
PROJECT. CONTRACTOR'S BID SHALL
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ISSUE. WHEN PERFORMING GRADING
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WEATHER, PROVIDE ADEQUATE
DEWATERING, DRAINAGE AND GROUND
WATER MANAGEMENT TO CONTROL
MOISTURE OF SOILS.



No.	REVISIONS	DATE	BY

Kimley»Horn
1777 MAIN STREET, SUITE 200, SARASOTA, FL 34236
PHONE: 941-379-7600
WWW.KIMLEY-HORN.COM CA 00000696

KHA PROJECT
DATE 2/19/2019
SCALE
DESIGNED BY JWW
DRAWN BY DMA
CHECKED BY AMM

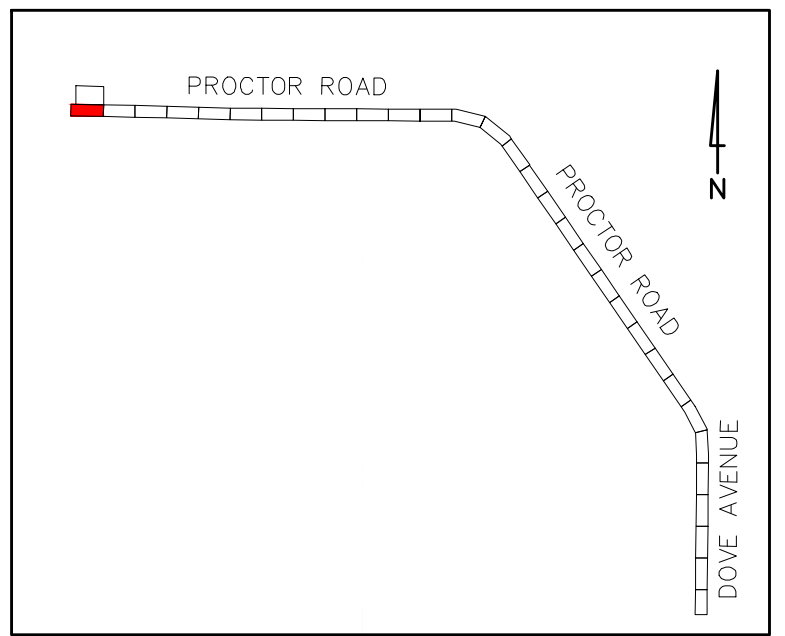
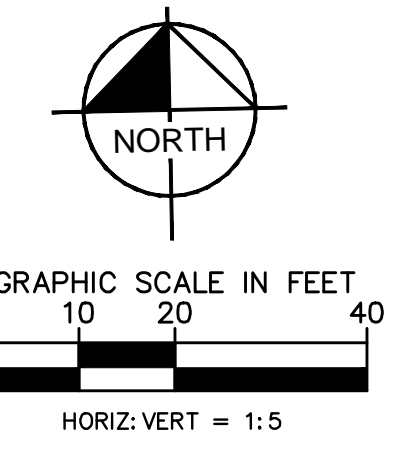
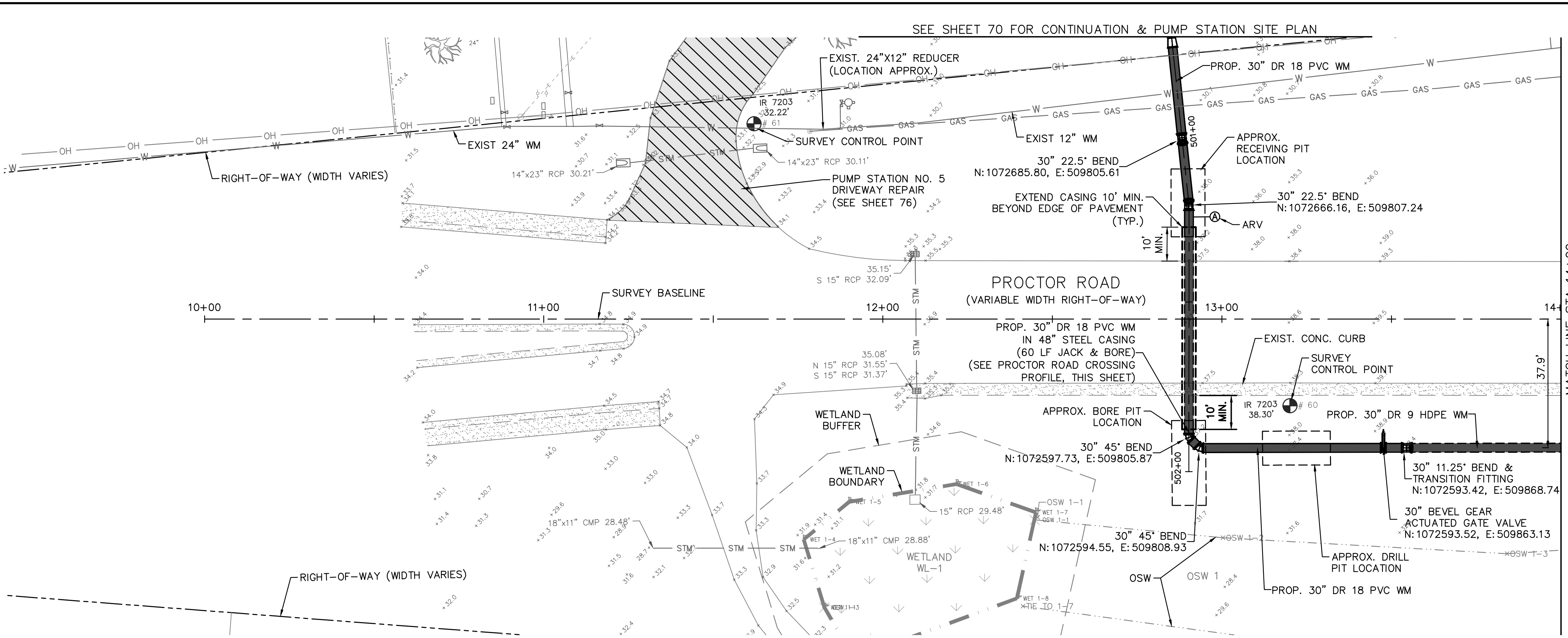
Sarasota County
**PEACE RIVER INTERCONNECT AND
POTABLE WATER TRANSMISSION MAIN**
SARASOTA COUNTY

LICENSED PROFESSIONAL
ASHLEY M. MIELE, P.E.
66476
FL DATE:

KEY SHEET

SHEET NUMBER
04
Approved
2019-H-194-00121
Leon Herndon
4/8/2019

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- KEY MAP**
- LEGEND**
- PROP. ASPHALT MILL/OVERLAY
 - PROP. ROAD REPAIR FOR UTILITY INSTALLATION
 - PROP. CONCRETE WALK/CURB RESTORATION

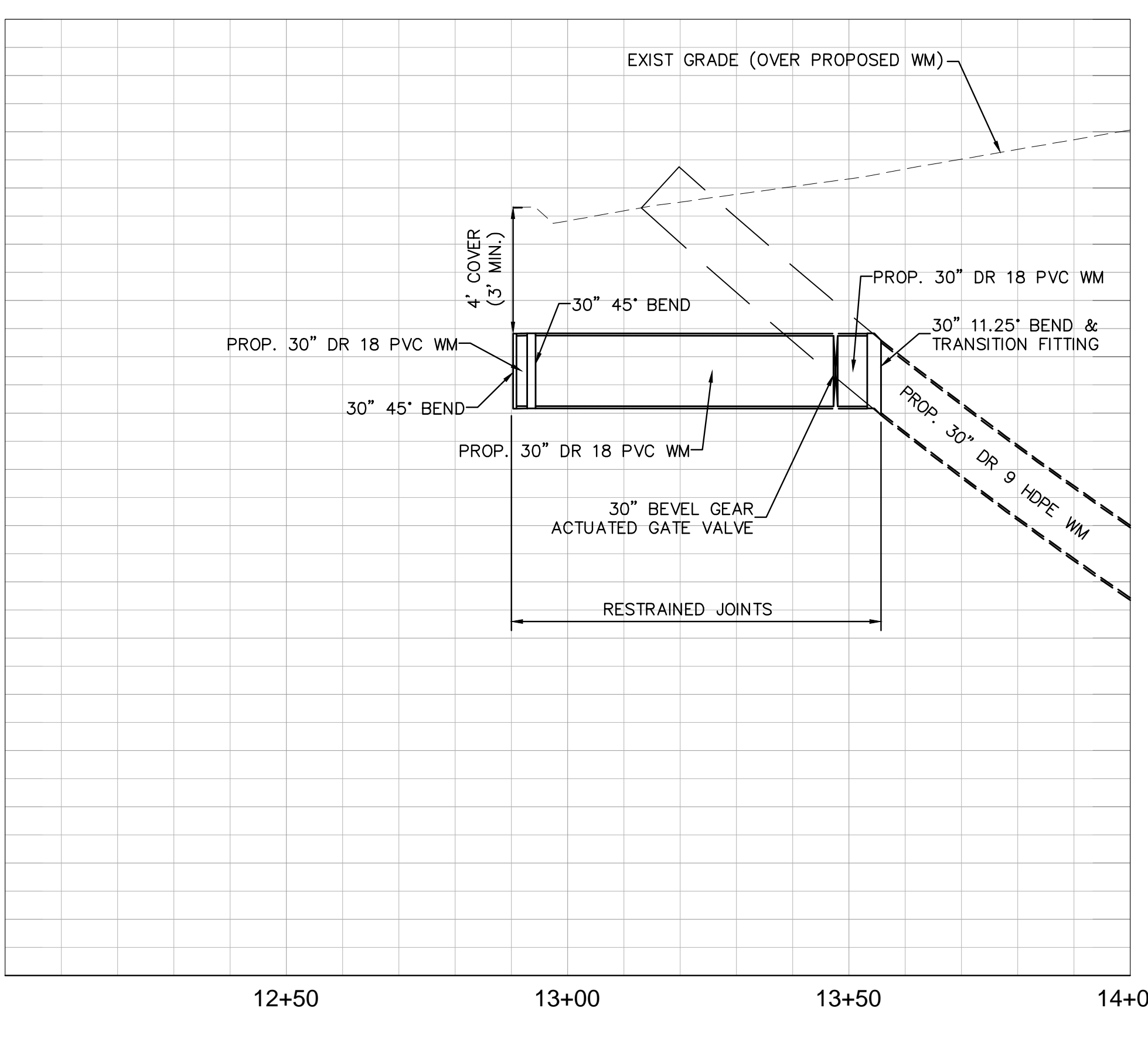
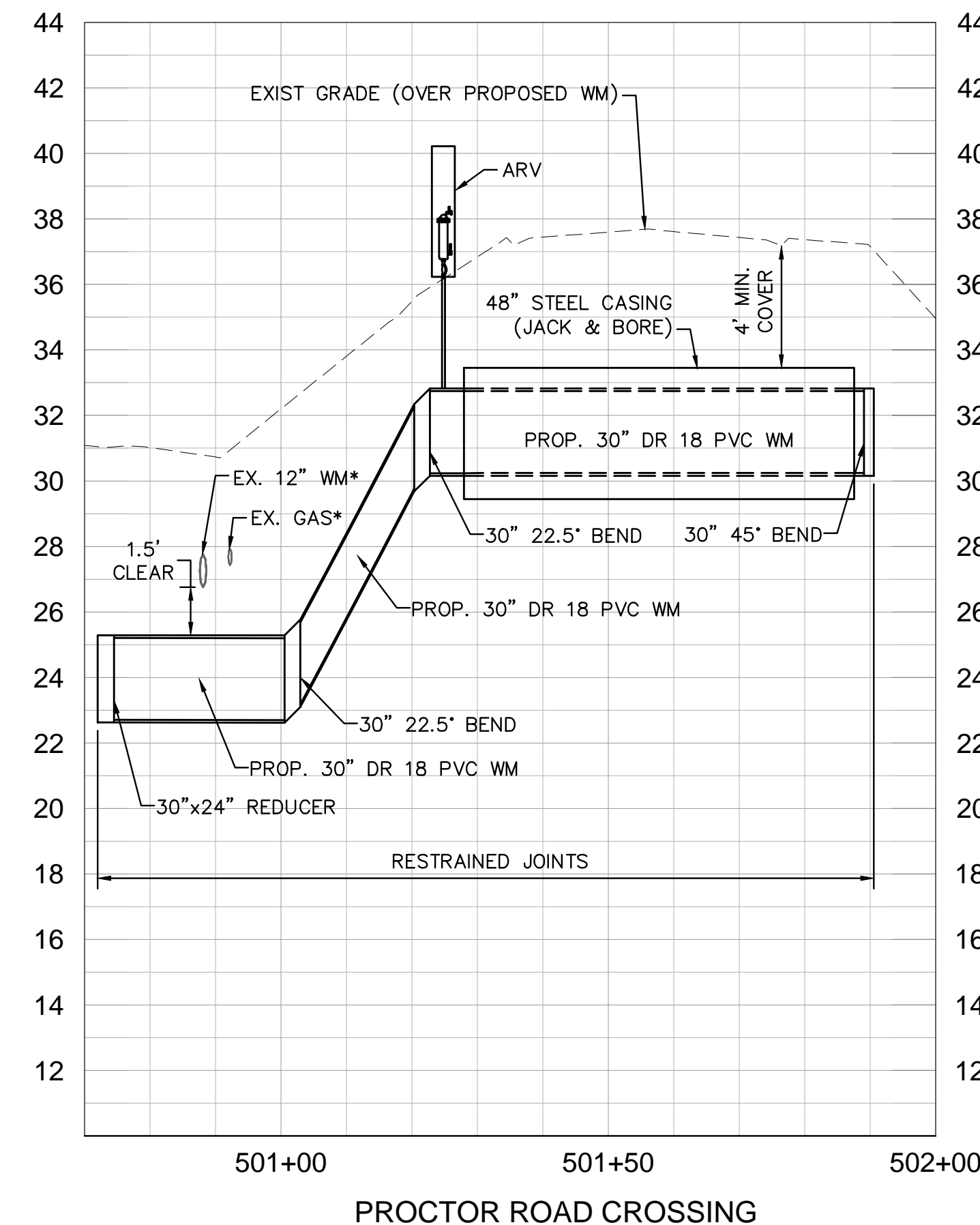
- NOTES:**
1. CONTRACTOR TO FOLLOW RESTRAINED LENGTHS SET IN RESTRAIN LENGTH DETAILS ON SHEET 74. JOINT LENGTHS SHOWN ON PLANS REPRESENT THE MINIMUM DISTANCE OF REQUIRED RESTRAINED JOINTS.
 2. CONSTRUCTION DEWATERING SHALL BE CONDUCTED IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS INCLUDING BUT NOT LIMITED TO CHAPTERS 62-621.300 AND 62-620 OF THE FLORIDA ADMINISTRATIVE CODE (FAC).
 3. REFER TO DETAILS ON SHEET 76 FOR COUNTY ROADWAY REPAIR REQUIREMENTS.
 4. REFER TO DRIVEWAY RESTORATION DETAIL, SHEET 76, FOR COUNTY RESTORATION REQUIREMENTS.

***NOTES:**
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GROUNDWATER / DEWATERING NOTE:
 THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR THIS ISSUE. WHEN PERFORMING GRADING OPERATIONS DURING PERIODS OF WET WEATHER, PROVIDE ADEQUATE DEWATERING, DRAINAGE AND GROUND WATER MANAGEMENT TO CONTROL MOISTURE OF SOILS.

**PERMIT SET
 NOT FOR CONSTRUCTION**



PROCTOR ROAD CROSSING

No.	REVISIONS	DATE	BY

Kimley»Horn

1777 MAIN STREET, SUITE 200, SARASOTA, FL 34236
 PHONE: 941-379-7600
 WWW.KIMLEY-HORN.COM CA 00000696

KHA PROJECT

DATE: 2/21/2019

SCALE:

DESIGNED BY: JWW

DRAWN BY: DMA

CHECKED BY: AMM

Sarasota County

PEACE RIVER INTERCONNECT AND POTABLE WATER TRANSMISSION MAIN

SARASOTA COUNTY

LICENSED PROFESSIONAL

ASHLEY M. MIELE, P.E.

66476

FL DATE:

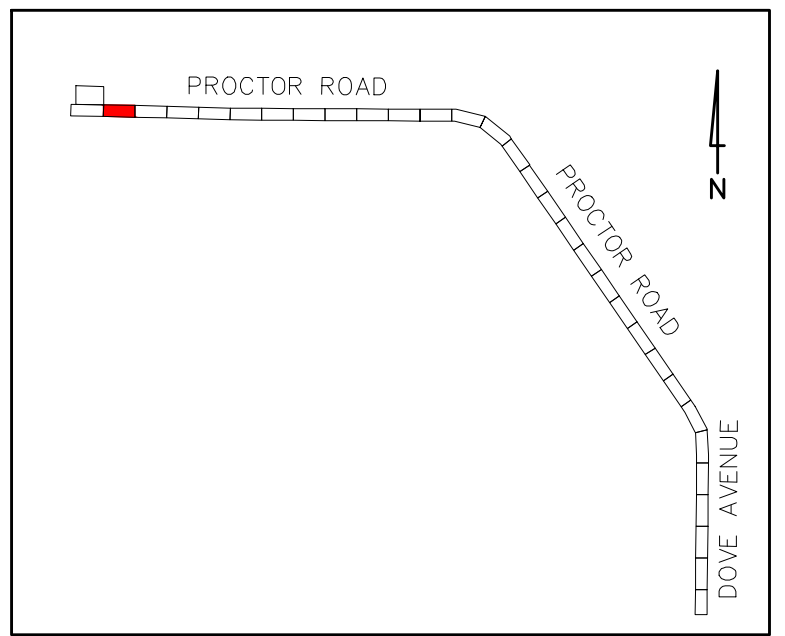
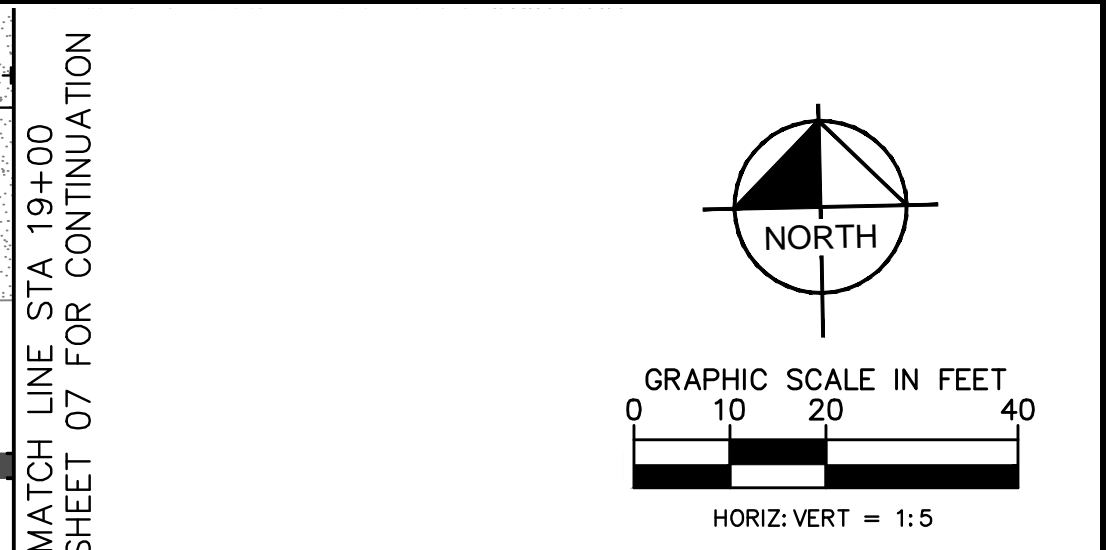
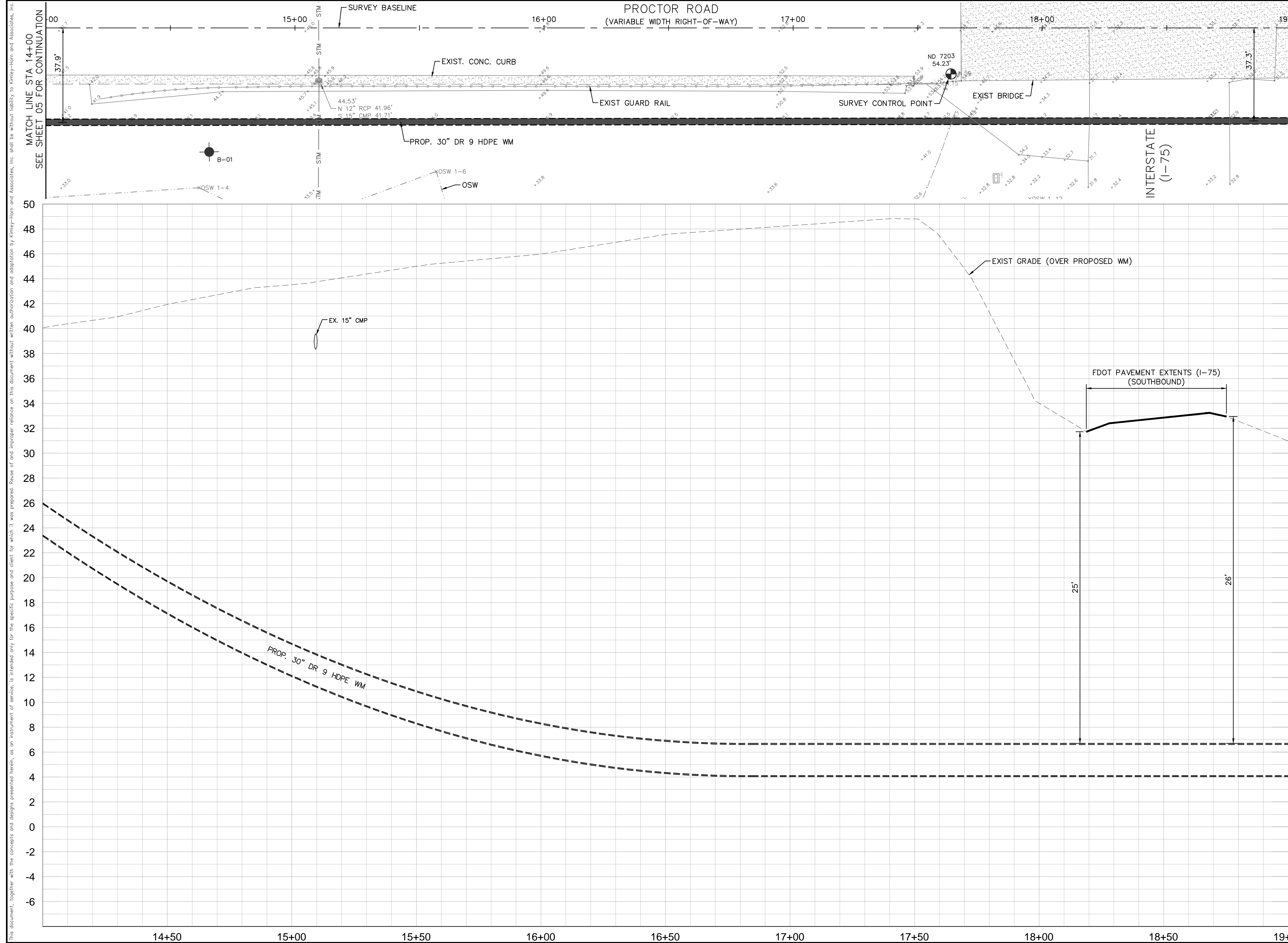
PROCTOR ROAD - DOVE AVENUE

STA 10+00.00 TO 14+00.00

SHEET NUMBER

05

Approved
 2019-H-194-00121
 Leon Herndon
 4/8/2019



KEY MAP

- LEGEND**
- PROP. ASPHALT MILL/OVERLAY
 - PROP. ROAD REPAIR FOR UTILITY INSTALLATION
 - PROP. CONCRETE WALK/CURB RESTORATION

- NOTES:**
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PERMIT SET
 NOT FOR CONSTRUCTION



No.	REVISIONS	DATE	BY

Kimley»Horn

1777 MAIN STREET, SUITE 200, SARASOTA, FL 34236
 PHONE: 941-379-7600
 WWW.KIMLEY-HORN.COM CA 00000696

KHA PROJECT
 DATE 2/21/2019
 SCALE
 DESIGNED BY JWW
 DRAWN BY DMA
 CHECKED BY AMM

Sarasota County

PEACE RIVER INTERCONNECT AND POTABLE WATER TRANSMISSION MAIN

SARASOTA COUNTY

LICENSED PROFESSIONAL

ASHLEY M. MIELE, P.E.

66476

FL DATE:

PROCTOR ROAD - DOVE AVENUE

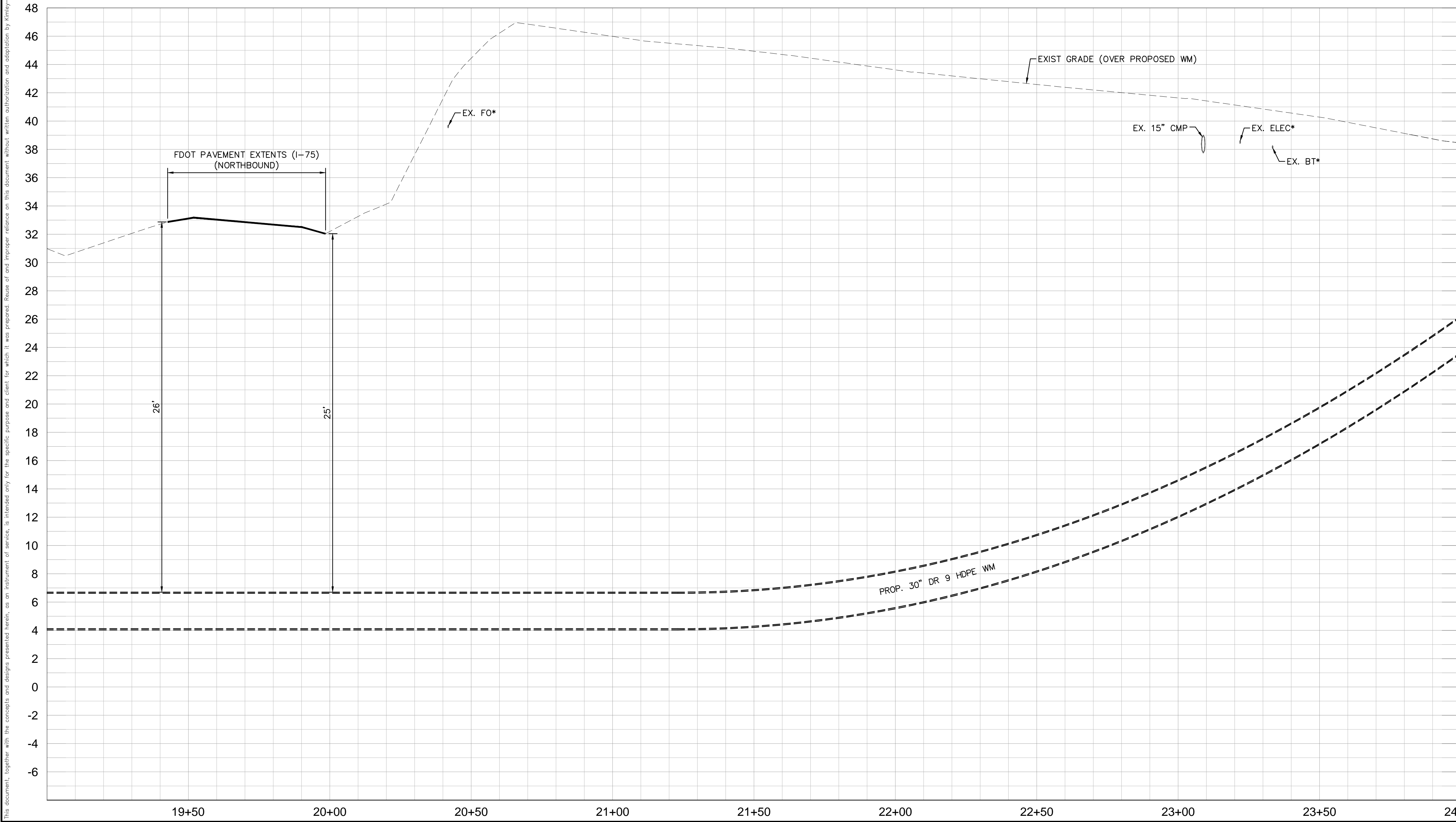
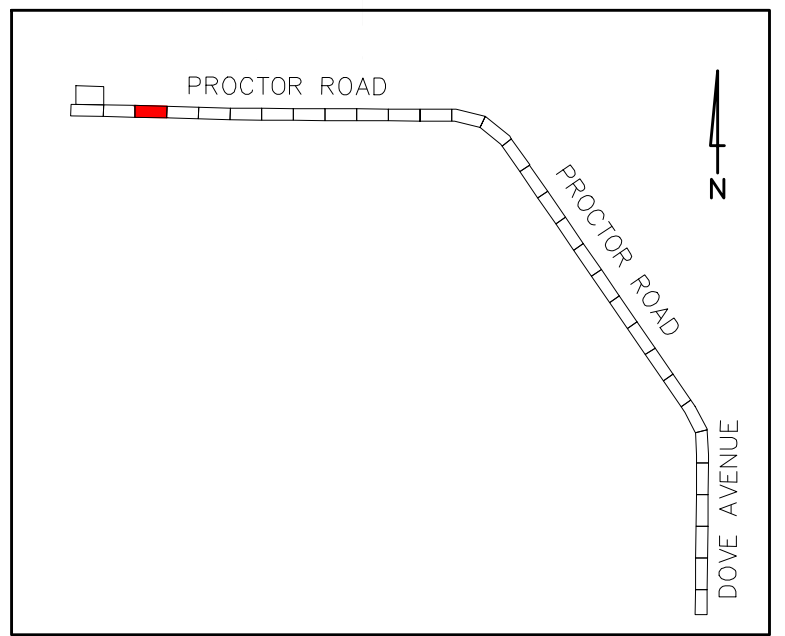
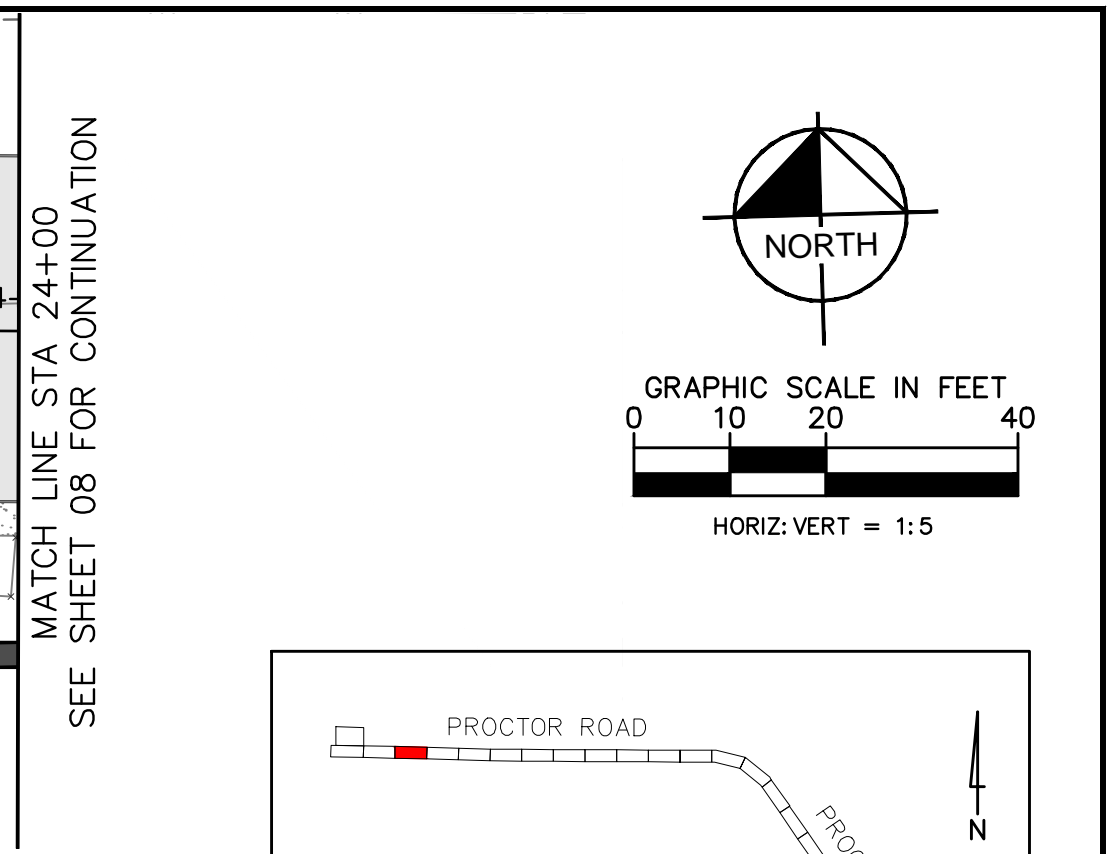
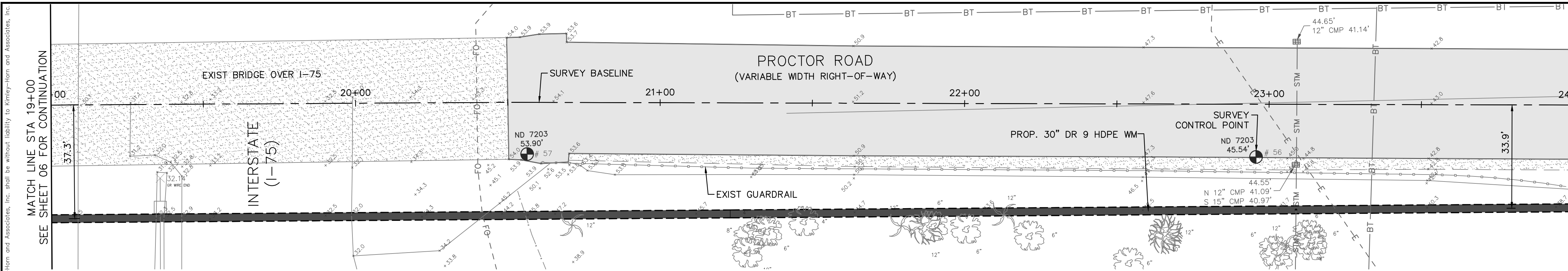
STA 14+00.00 TO 19+00.00

SHEET NUMBER

06

Approved
 2019-H-194-00121
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 4/8/2019

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KEY MAP

LEGEND

- PROP. ASPHALT MILL/OVERLAY
- PROP. ROAD REPAIR FOR UTILITY INSTALLATION
- PROP. CONCRETE WALK/CURB RESTORATION

NOTES:

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**PERMIT SET
NOT FOR CONSTRUCTION**

811 KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG
It's fast. It's free. It's the law.
www.callsunshine.com

No.	REVISIONS	DATE	BY

Kimley»Horn

1777 MAIN STREET, SUITE 200, SARASOTA, FL 34236
PHONE: 941-379-7600
WWW.KIMLEY-HORN.COM CA 00000696

KHA PROJECT
DATE 2/21/2019
SCALE
DESIGNED BY JWW
DRAWN BY DMA
CHECKED BY AMM

Sarasota County

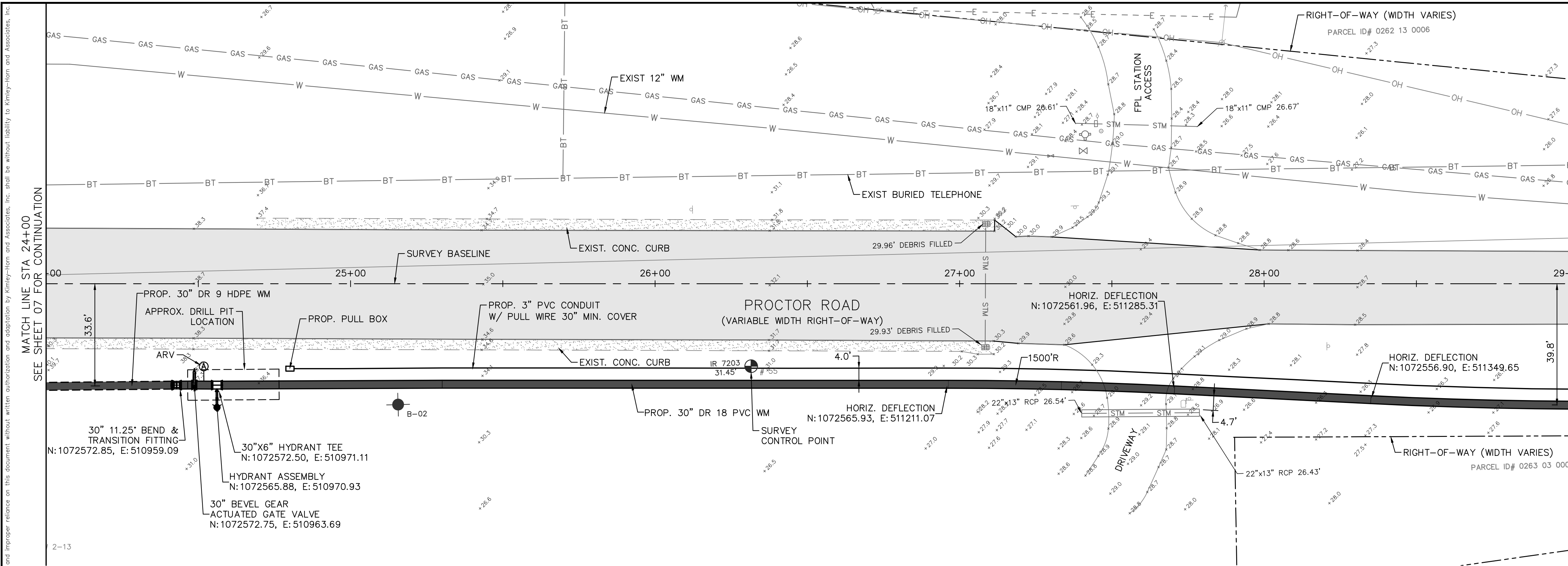
PEACE RIVER INTERCONNECT AND POTABLE WATER TRANSMISSION MAIN

SARASOTA COUNTY

LICENSED PROFESSIONAL
ASHLEY M. MIELE, P.E.
66476
FL DATE:

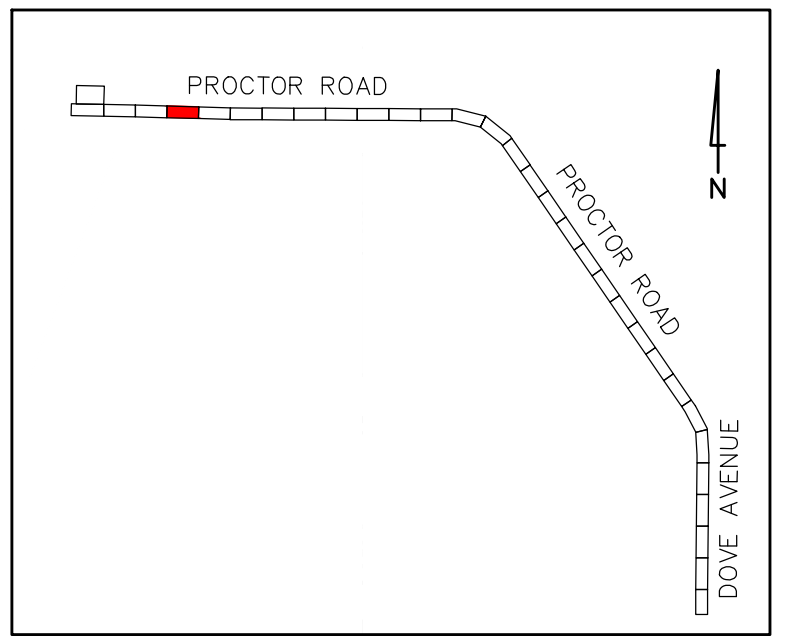
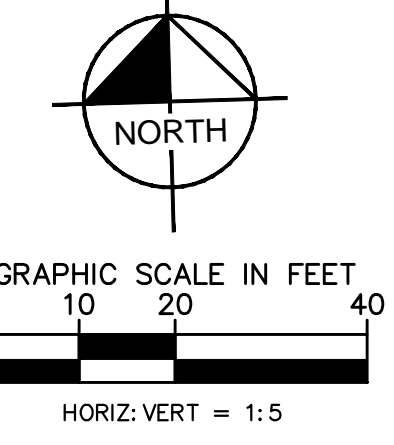
PROCTOR ROAD - DOVE AVENUE
STA 19+00.00 TO 24+00.00

SHEET NUMBER
07
Approved
2019-H-194-00121
Leon Herndon
4/8/2019



MATCH LINE STA 29+00
SEE SHEET 09 FOR CONTINUATION

MATCH LINE STA 24+00
SEE SHEET 07 FOR CONTINUATION



KEY MAP

- LEGEND**
- PROP. ASPHALT MILL/OVERLAY
 - PROP. ROAD REPAIR FOR UTILITY INSTALLATION
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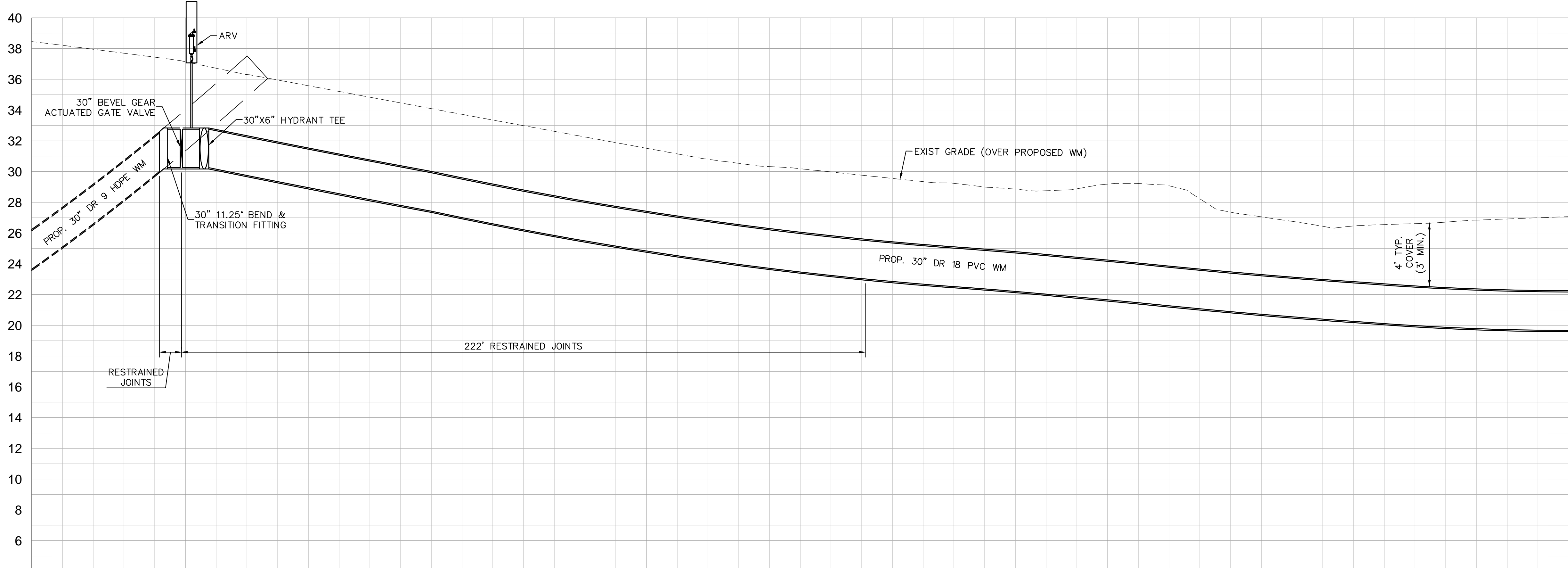
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PERMIT SET NOT FOR CONSTRUCTION



MATCH LINE STA 29+00
SEE SHEET 09 FOR CONTINUATION

MATCH LINE STA 24+00
SEE SHEET 07 FOR CONTINUATION

No.	REVISIONS	DATE	BY

Kimley»Horn

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PHONE: 941-379-7600
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Sarasota County

PEACE RIVER INTERCONNECT AND POTABLE WATER TRANSMISSION MAIN

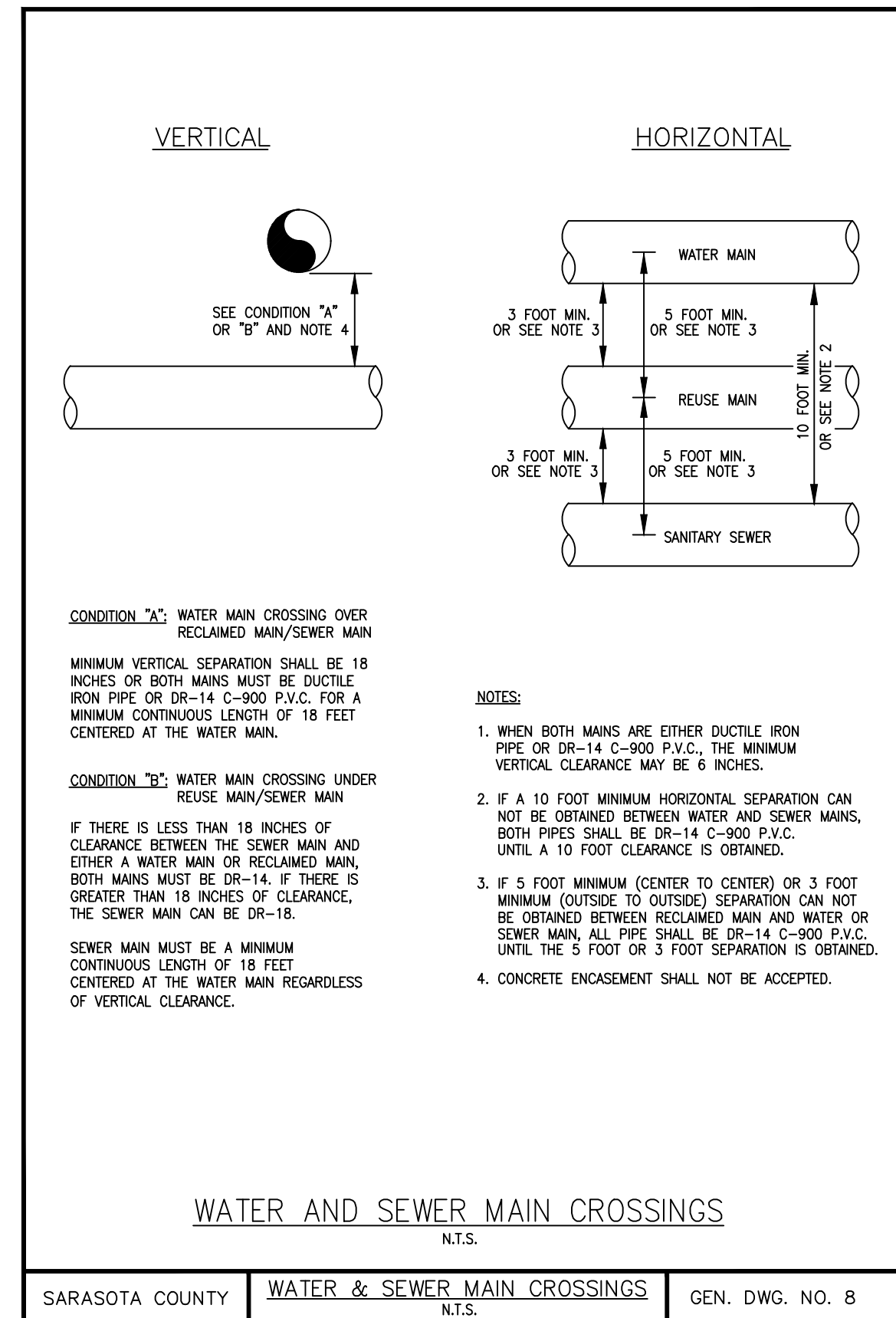
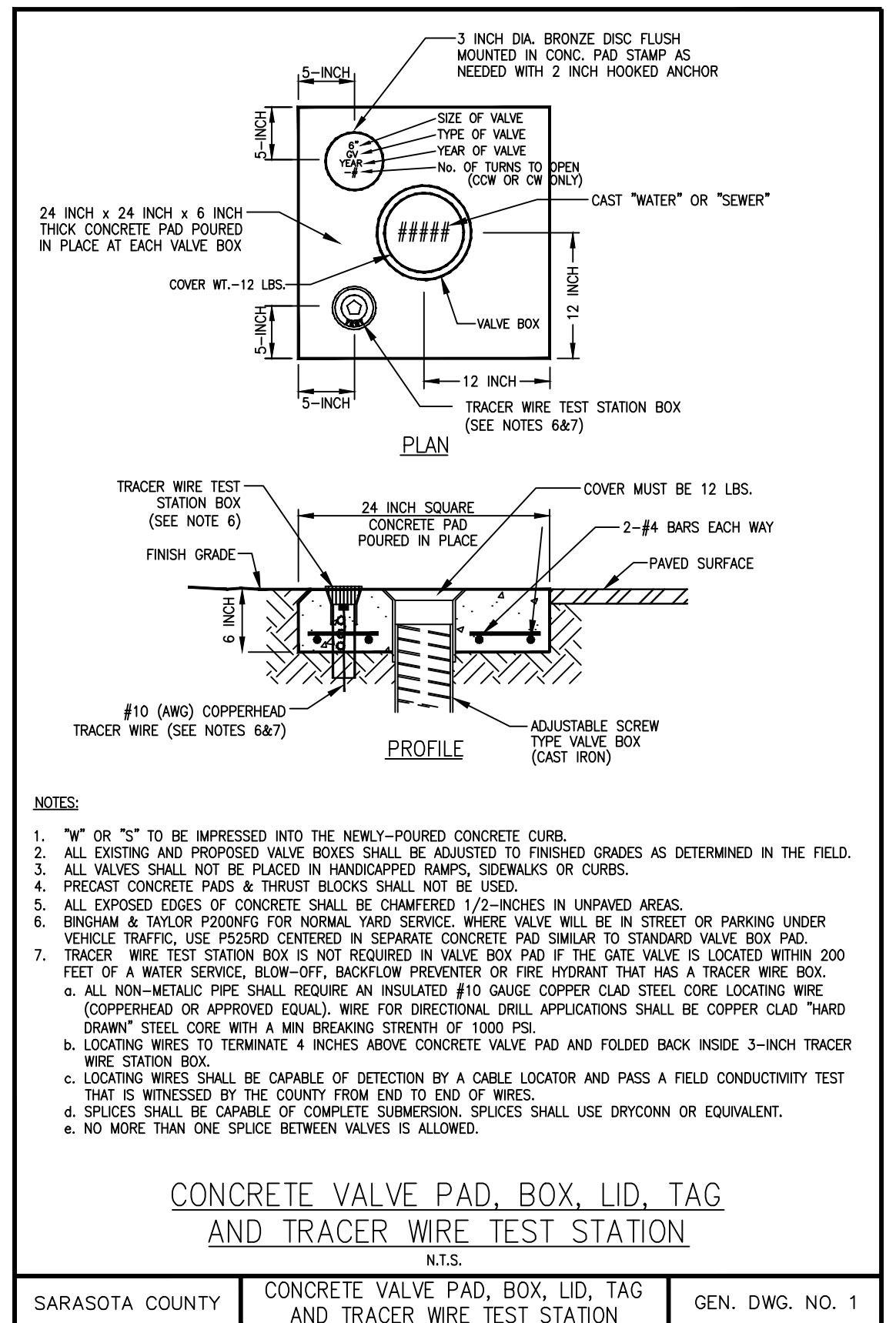
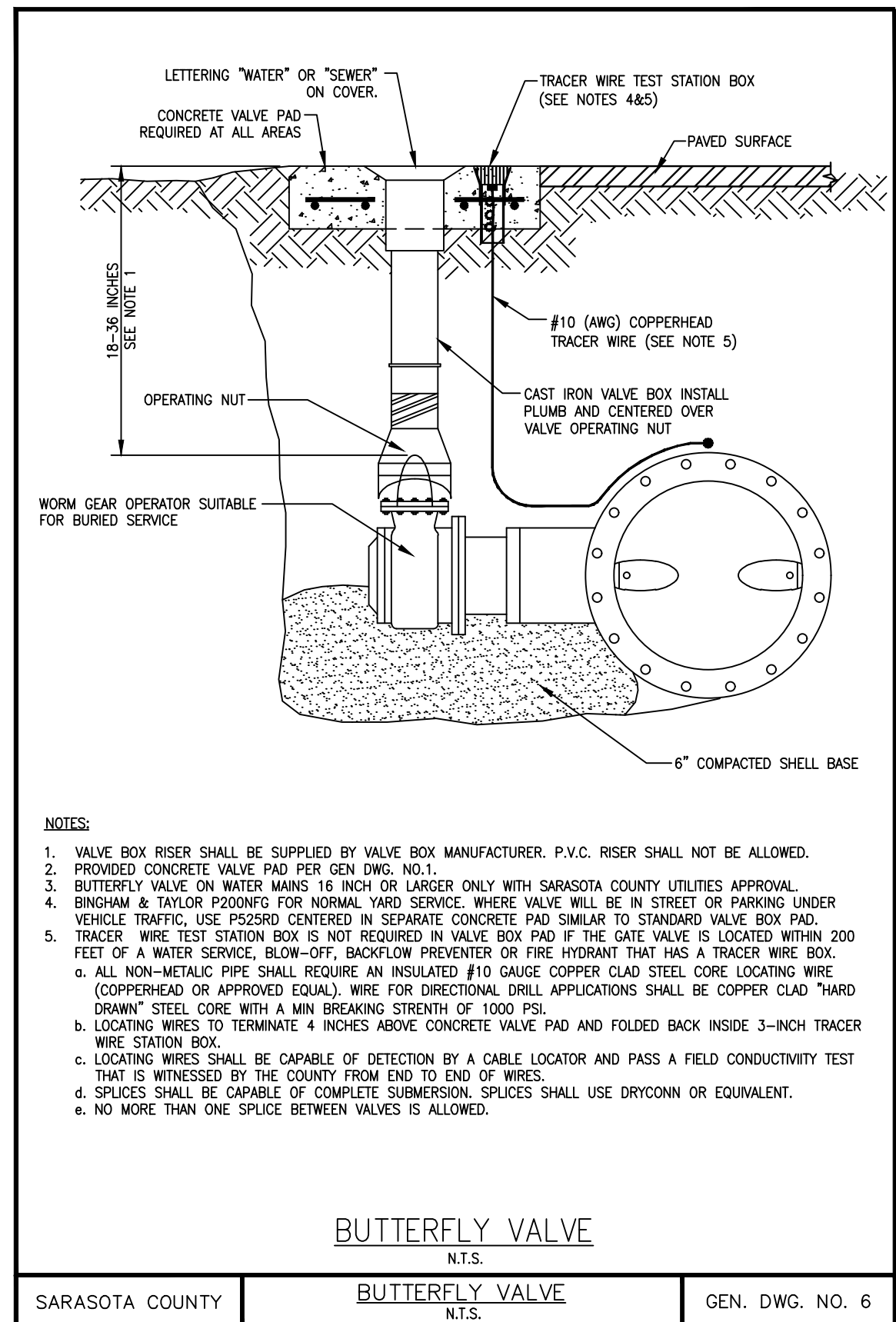
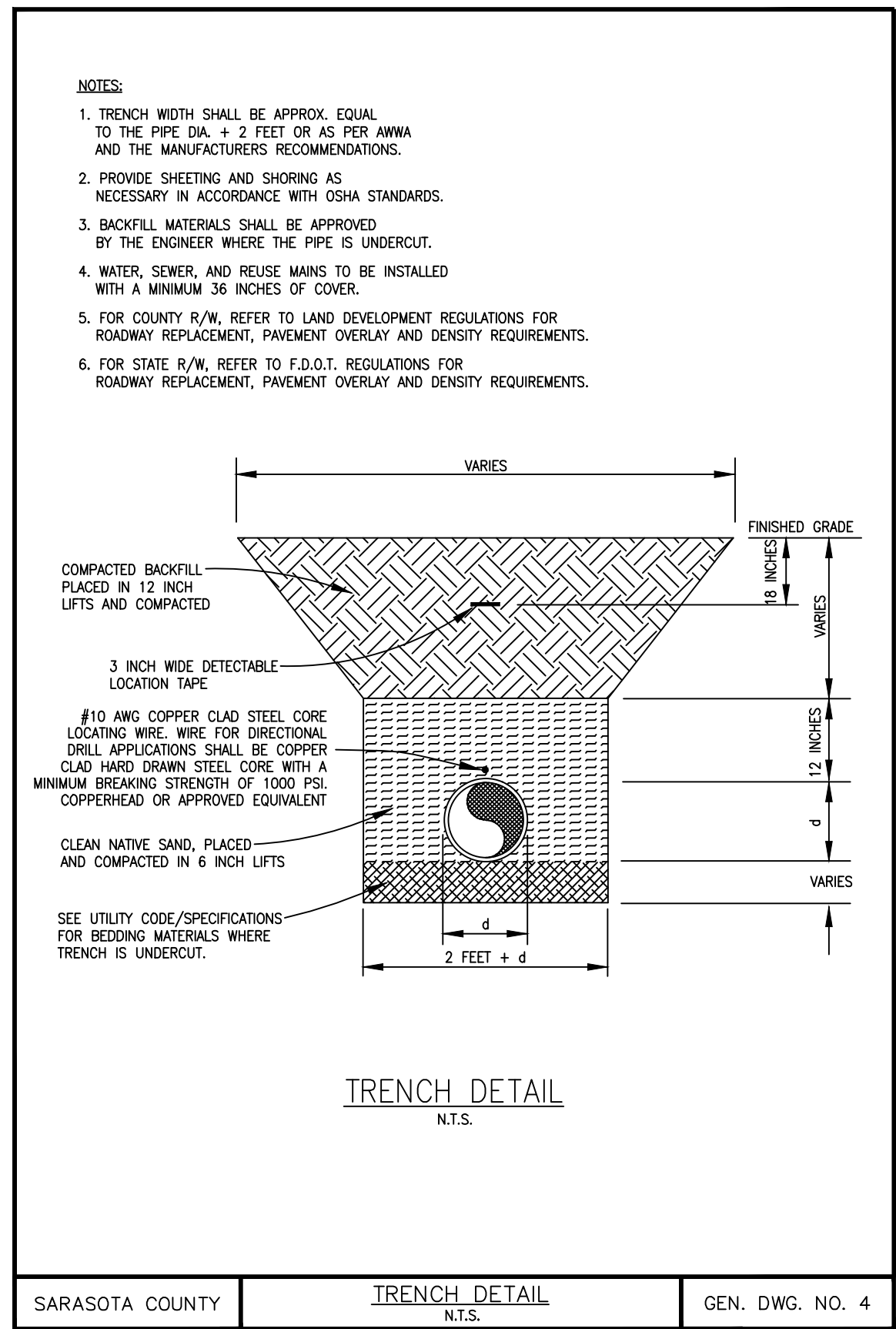
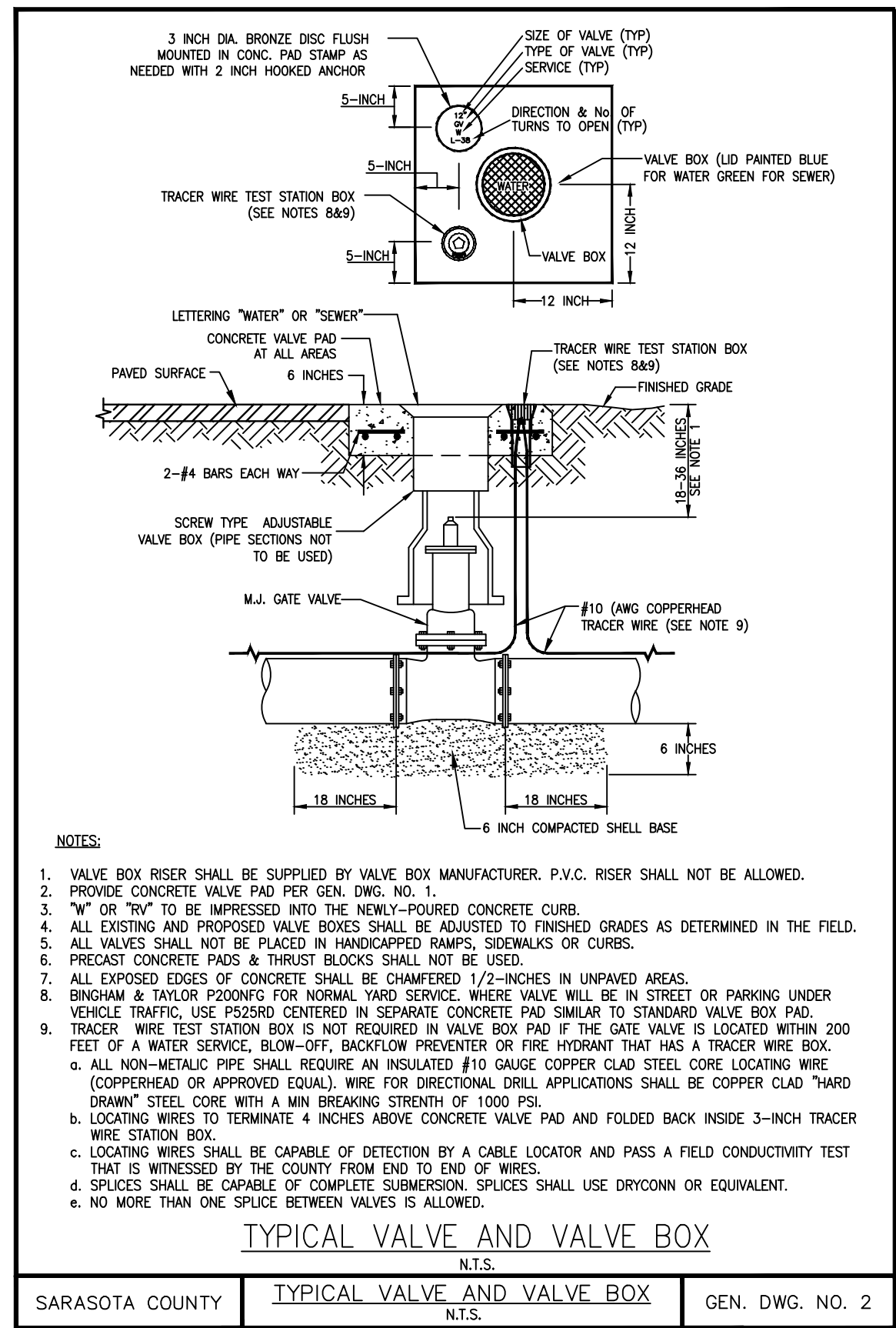
SARASOTA COUNTY FL

LICENSED PROFESSIONAL
ASHLEY M. MIELE, P.E.
66476
DATE:

PROCTOR ROAD - DOVE AVENUE
STA 24+00.00 TO 29+00.00

SHEET NUMBER
08
Approved 2019-H-194-00121 Leon Herndon 4/8/2019

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RESTRAIN LENGTHS DETAIL

(SOURCES: EBAA IRON RESTRAINT LENGTH CALCULATION PROGRAM FOR PVC PIPE, RELEASE 7.1.2)

NOTES:
1. THE DATA IN THE ABOVE TABLE ARE BASED UPON THE FOLLOWING INSTALLATION CONDITIONS:
SOIL TYPE—SM TEST PRESSURE—150 PSI
TRENCH TYPE—4 SAFETY FACTOR—1.5
MINIMUM PIPE LENGTH ALONG TEE RUN—5'
DEPTH OF BURY—3' VERTICAL OFFSET—1'

2. ALL JOINTS BETWEEN UPPER AND LOWER BENDS SHALL BE RESTRAINED.
3. RESTRAINED PIPE LENGTHS APPLY TO PIPE ON BOTH SIDES OF FITTINGS.
4. RESTRAINED JOINTS SHALL EXTEND ONE JOINT BEYOND MIN. LENGTH REQUIRED.

FITTING TYPE	PVC — MIN. LENGTH OF PIPE (FT) TO BE RESTRAINED											
	PIPE SIZE											
	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	30"	36"
90° HORIZ. BEND	15	20	27	31	37	43	46	51	55	64	75	85
45° HORIZ. BEND	6	9	11	13	15	18	19	21	23	27	31	36
22.5° HORIZ. BEND	3	4	6	7	8	9	10	10	11	13	15	17
11.25° HORIZ. BEND	2	2	3	4	4	5	5	5	6	7	8	9
90° VERT. OFFSET	UPPER BEND	39	55	72	87	102	119	131	145	159	185	222
	LOWER BEND	39	55	72	87	102	119	131	145	159	185	222
45° VERT. OFFSET	UPPER BEND	17	23	30	36	43	50	55	60	66	77	92
	LOWER BEND	5	7	9	10	12	14	15	17	18	21	25
22.5° VERT. OFFSET	UPPER BEND	8	11	15	18	21	24	27	29	32	37	45
	LOWER BEND	3	4	5	6	7	8	8	9	10	12	14
11.25° VERT. OFFSET	UPPER BEND	4	6	8	9	11	12	13	15	16	19	22
	LOWER BEND	2	2	2	3	3	4	4	5	5	6	7
PLUG/IN-LINE VALVE	39	55	72	87	102	119	131	145	159	185	222	257
TEE (BRANCH RESTRAINT)	4" x ø	14	—	—	—	—	—	—	—	—	—	—
	6" x ø	1	29	—	—	—	—	—	—	—	—	—
	8" x ø	1	21	46	—	—	—	—	—	—	—	—
	10" x ø	1	11	39	60	—	—	—	—	—	—	—
	12" x ø	1	2	32	54	75	—	—	—	—	—	—
	14" x ø	1	1	25	49	71	92	—	—	—	—	—
	16" x ø	1	1	16	42	65	86	103	—	—	—	—
	18" x ø	1	1	7	35	59	82	99	117	—	—	—
	20" x ø	1	1	1	28	53	77	95	113	131	—	—
	24" x ø	1	1	1	14	41	66	86	105	123	156	—
	30" x ø	1	1	1	1	22	49	72	93	112	147	192
	36" x ø	1	1	1	1	1	31	56	79	100	137	184
REDUCER (LARGER PIPE RESTRAINT)	6" x ø	29	—	—	—	—	—	—	—	—	—	—
	8" x ø	52	31	—	—	—	—	—	—	—	—	—
	10" x ø	71	53	29	—	—	—	—	—	—	—	—
	12" x ø	89	74	54	30	—	—	—	—	—	—	—
	14" x ø	107	95	78	57	31	—	—	—	—	—	—
	16" x ø	121	111	96	78	56	30	—	—	—	—	—
	18" x ø	136	127	114	98	79	56	30	—	—	—	—
	20" x ø	151	143	131	117	100	79	56	30	—	—	—
	24" x ø	179	172	163	151	137	120	101	80	56	—	—
	30" x ø	217	211	204	195	184	171	156	140	121	78	—
	36" x ø	253	249	243	235	226	216	204	190	175	141	78

FITTING TYPE	DUCTILE IRON — MIN. LENGTH OF PIPE (FT) TO BE RESTRAINED											
	PIPE SIZE											
	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	30"	36"
90° HORIZ. BEND	12	17	22	26	31	35	39	42	46	53	63	72
45° HORIZ. BEND	5	7	9	11	13	15	16	18	19	22	26	30
22.5° HORIZ. BEND	3	4	5	6	6	7	8	9	10	11	13	15
11.25° HORIZ. BEND	2	2	3	3	3	4	4	5	5	6	7	7
90° VERT. OFFSET	UPPER BEND	25	36	46	56	65	74	84	92	101	118	141
	LOWER BEND	25	36	46	56	65	74	84	92	101	118	141
45° VERT. OFFSET	UPPER BEND	11	15	20	23	27	31	35	39	42	49	59
	LOWER BEND	4	6	7	9	10	12	13	14	15	18	21
22.5° VERT. OFFSET	UPPER BEND	5	7	10	11	13	15	17	19	21	24	28
	LOWER BEND	2	3	4	4	5	6	6	7	8	9	10
11.25° VERT. OFFSET	UPPER BEND	3	4	5	6	7	8	9	10	10	12	14
	LOWER BEND	1	2	2	2	3	3	4	4	5	5	6
PLUG/IN-LINE VALVE	25	36	46	56	65	74	84	92	101	118	141	163
TEE (BRANCH RESTRAINT)	4" x ø	9	—	—	—	—	—	—	—	—	—	—
	6" x ø	1	19	—	—	—	—	—	—	—	—	—
	8" x ø	1	13	30	—	—	—	—	—	—	—	—
	10" x ø	1	7	25	38	—	—	—	—	—	—	—
	12" x ø	1	1	20	35	48	—	—	—	—	—	—
	14" x ø	1	1	15	31	45	57	—	—	—	—	—
	16" x ø	1	1	10	27	41	54	66	—	—	—	—
	18" x ø	1	1	5	22	38	51	63	74	—	—	—
	20" x ø	1	1	1	18	34	48	61	72	83	—	—
	24" x ø	1	1	1	9	27	41	55	67	79	99	—
	30" x ø	1	1	1	1	14	31	46	59	71	94	122
	36" x ø	1	1	1	1	1	19	36	50	64	87	117
REDUCER (LARGER PIPE RESTRAINT)	6" x ø	19	—	—	—	—	—	—	—	—	—	—
	8" x ø	34	20	—	—	—	—	—	—	—	—	—
	10" x ø	45	34	19	—	—	—	—	—	—	—	—
	12" x ø	57	48	35	20	—	—	—	—	—	—	—
	14" x ø	67	59	48	35	19	—	—	—	—	—	—
	16" x ø	77	71	61	50	36	19	—	—	—	—	—
	18" x ø	87	81	73	63	50	36	19	—	—	—	—
	20" x ø	96	91	84	75	64	51	36	19	—	—	—
	24" x ø	114	109	103	96	87	77	64	51	36	—	—
	30" x ø	138	135	130	124	117	109	100	89	77	50	—
	36" x ø	161	158	154	150	144	137	130	121	111	89	50

90% PLANS NOT FOR CONSTRUCTION

No.	REVISIONS	DATE	BY

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WWW.KIMLEY-HORN.COM CA 00000696

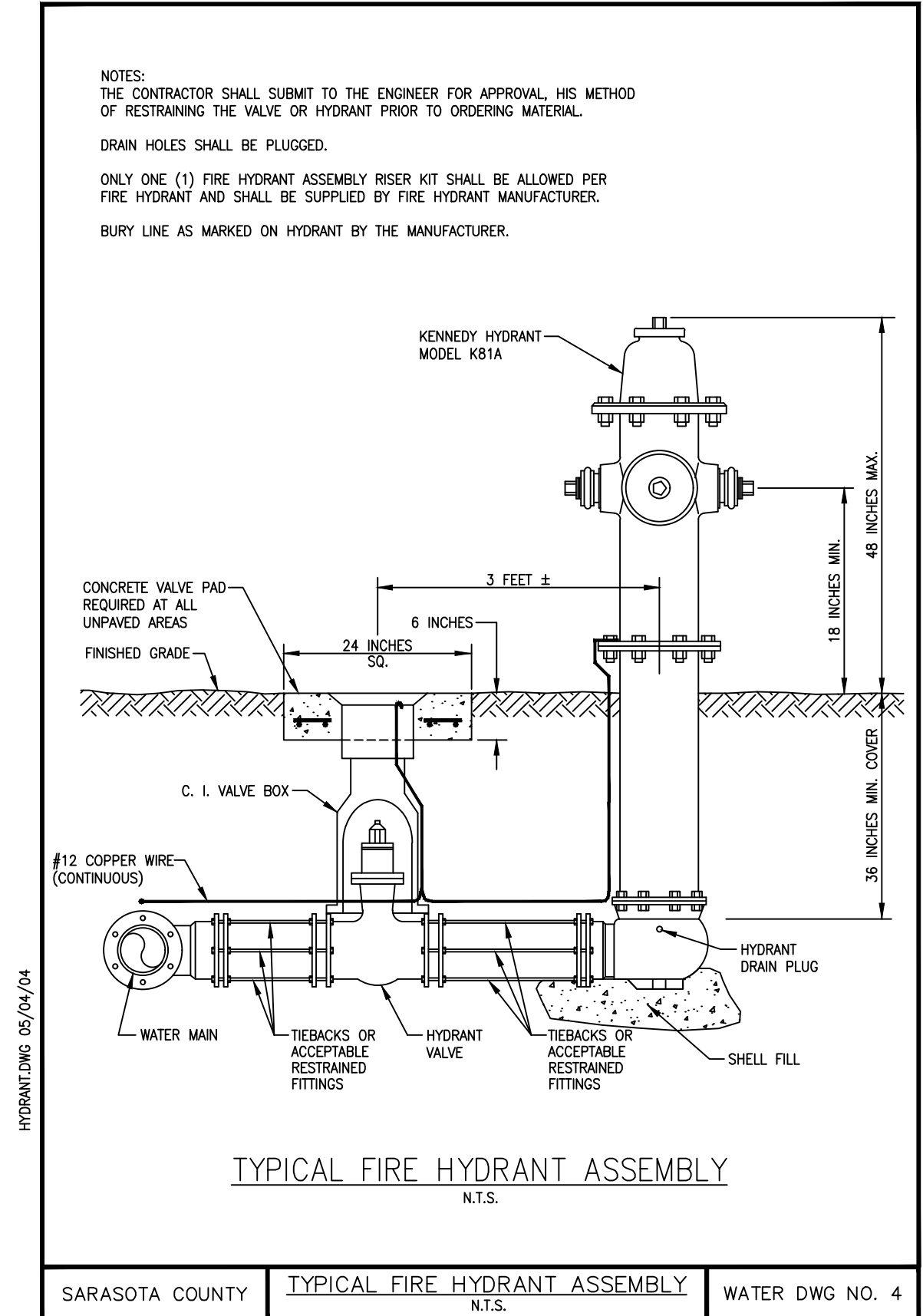
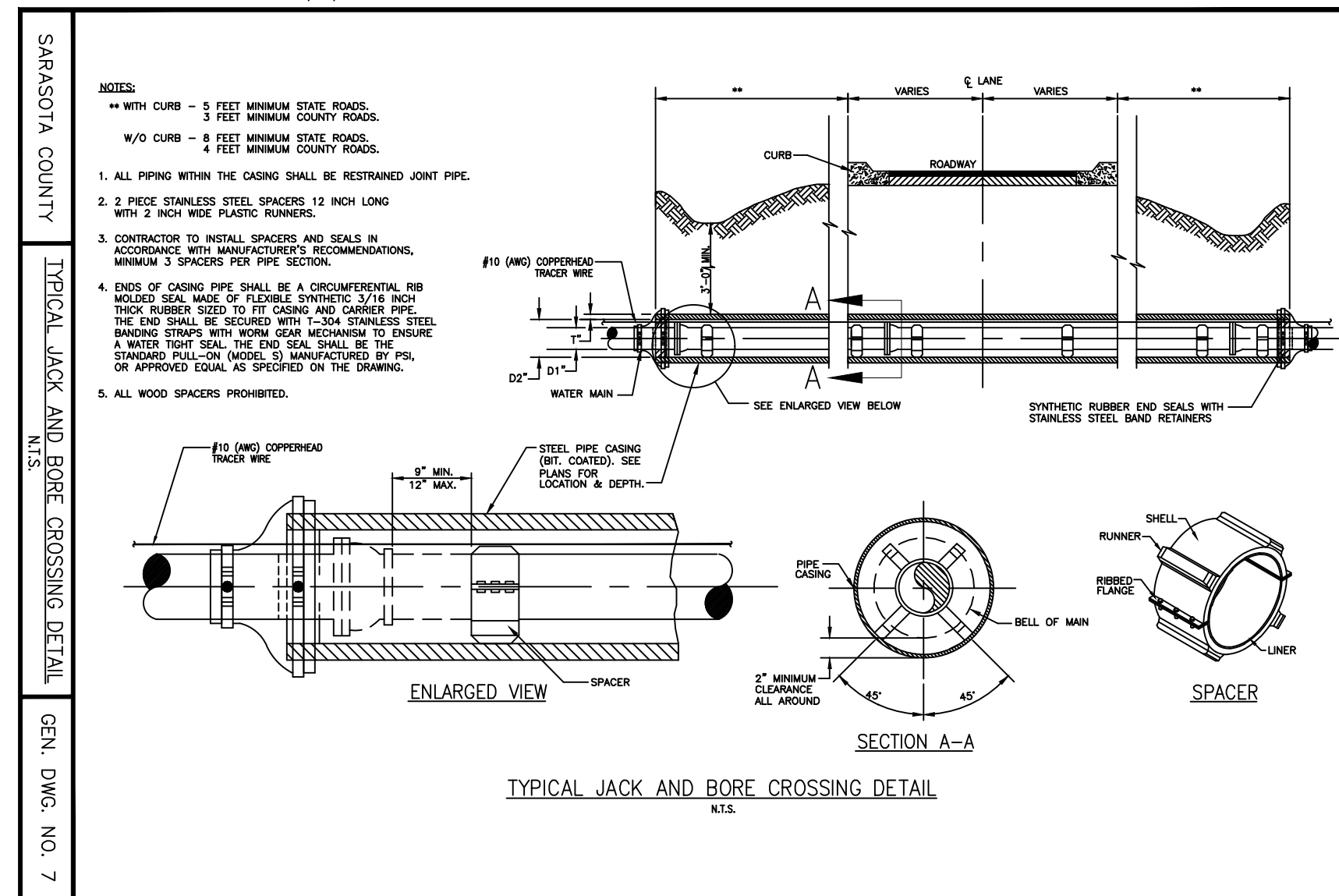
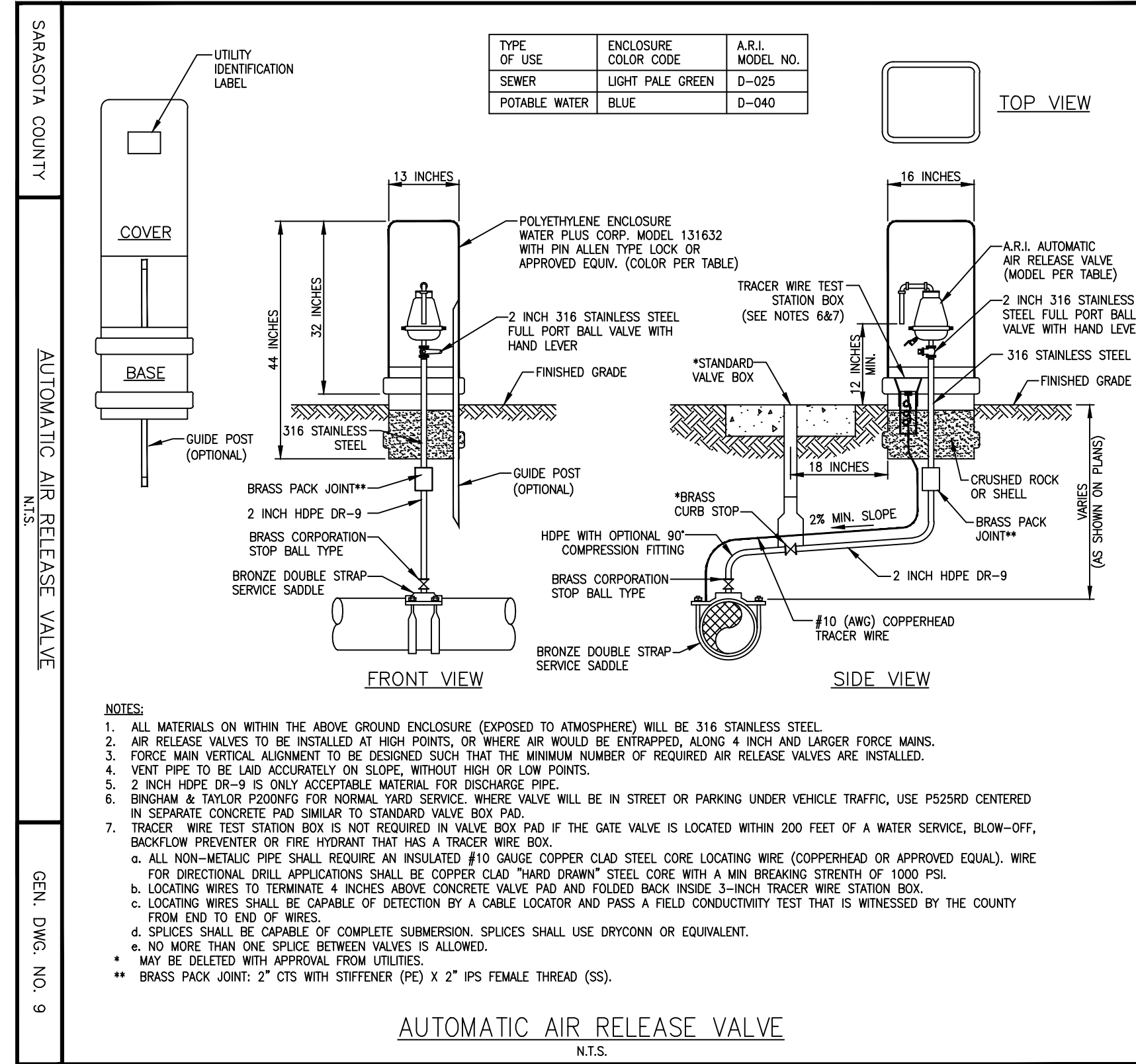
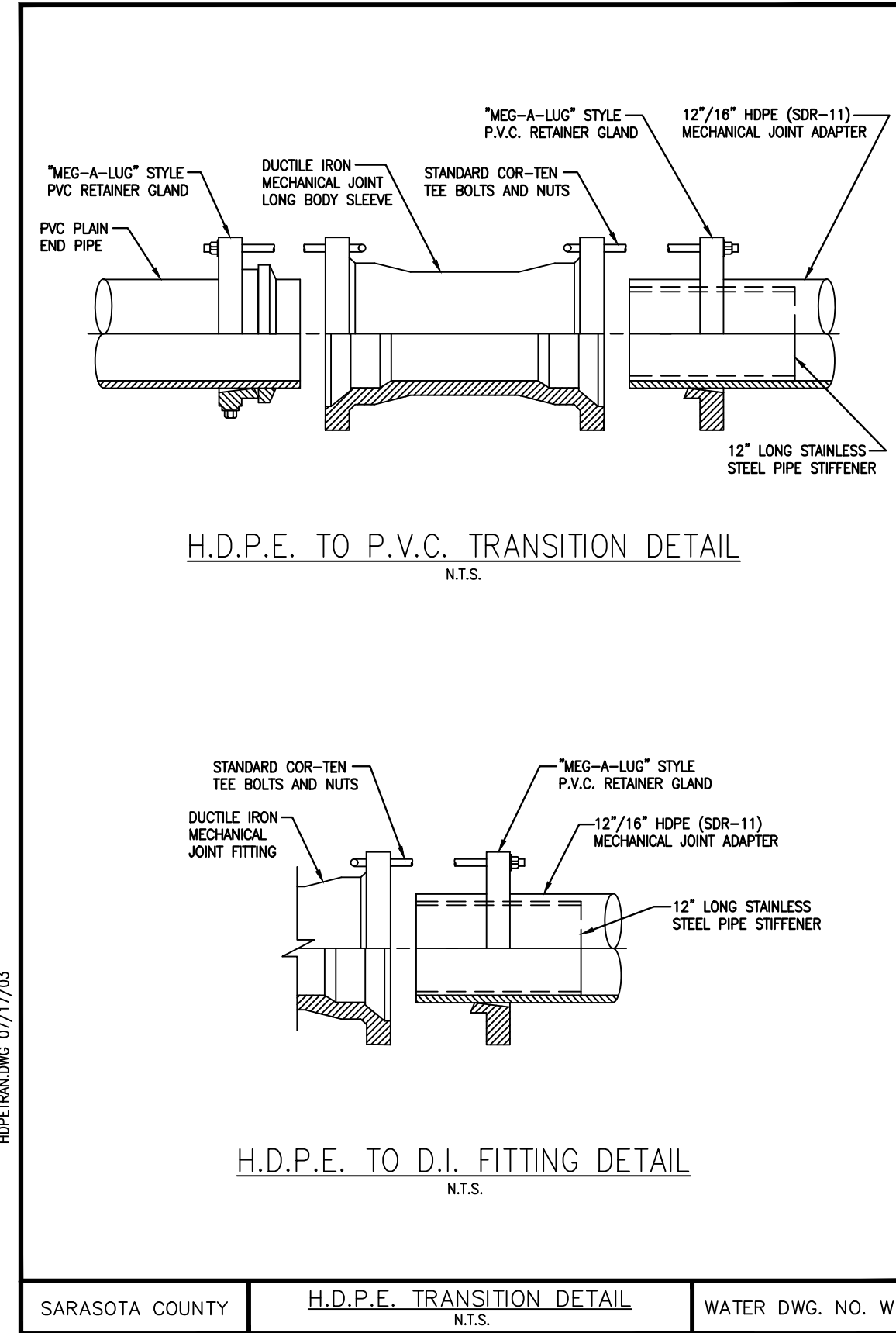
KHA PROJECT
DATE 2/19/2019
SCALE
DESIGNED BY JWW
DRAWN BY DMA
CHECKED BY AMM

Sarasota County
PEACE RIVER INTERCONNECT AND POTABLE WATER TRANSMISSION MAIN
SARASOTA COUNTY

LICENSED PROFESSIONAL
ASHLEY M. MIELE, P.E.
66476
FL DATE:

CONSTRUCTION DETAILS
SHEET NUMBER **74**
Approved 2019-H-194-00121
Leon Herndon
4/8/2019

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No.	REVISIONS	DATE	BY

Kimley»Horn

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KHA PROJECT

DATE 2/19/2019

SCALE

DESIGNED BY JWW

DRAWN BY DMA

CHECKED BY AMM

Sarasota County

PEACE RIVER INTERCONNECT AND POTABLE WATER TRANSMISSION MAIN

SARASOTA COUNTY FL

LICENSED PROFESSIONAL

ASHLEY M. MIELE, P.E.

66476

DATE:

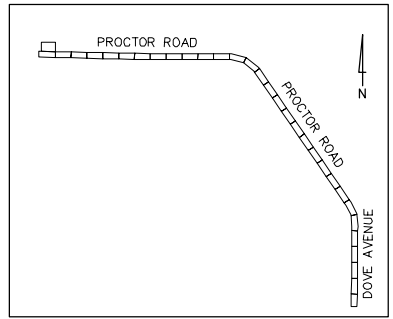
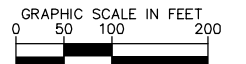
CONSTRUCTION DETAILS

SHEET NUMBER

75

Approved
Leon Herndon
4/8/2019

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KEY MAP

- LEGEND**
- PROP. ASPHALT MILL/OVERLAY
 - PROP. ROAD REPAIR FOR UTILITY INSTALLATION
 - PROP. CONCRETE WALK/CURB RESTORATION

- NOTES:**
1. CONTRACTOR TO FOLLOW RESTRAINED LENGTHS SET IN RESTRAIN LENGTH DETAILS ON SHEET 74. JOINT LENGTHS SHOWN ON PLANS REPRESENT THE MINIMUM DISTANCE OF REQUIRED RESTRAINED JOINTS.
 2. CONSTRUCTION DEWATERING SHALL BE CONDUCTED IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS INCLUDING BUT NOT LIMITED TO CHAPTERS 62-621.300 AND 62-620 OF THE FLORIDA ADMINISTRATIVE CODE (FAC).
 3. REFER TO DETAILS ON SHEET 76 FOR COUNTY ROADWAY REPAIR REQUIREMENTS.
 4. REFER TO DRIVEWAY RESTORATION DETAIL, SHEET 76, FOR COUNTY RESTORATION REQUIREMENTS.

***NOTES:**
 THE ELEVATIONS OF THE UTILITIES MARKED WITH AN ASTERISK (*) HAVE BEEN ASSUMED ON THE BASIS OF TYPICAL ANTICIPATED SOIL COVERAGE. CONTRACTOR SHALL NOT RELY ON THIS INFORMATION FOR CONSTRUCTION, BUT SHALL BE RESPONSIBLE FOR FIELD LOCATIONS (HORIZONTAL AND VERTICAL) OF ALL UTILITIES CROSSING THE PROPOSED WATER MAIN. CONTRACTOR SHALL INCLUDE IN THE UNIT COST OF THE SUBJECT WATER MAIN CONSTRUCTION, THE COST OF UTILITY ADJUSTMENTS NECESSARY TO ATTAIN DESIGN MINIMUM SEPARATION FOR UTILITIES CONFLICTING WITH THE CONSTRUCTION OF THE PROPOSED WATER MAIN. INTERRUPTIONS OF ANY EXISTING UTILITY SERVICES SHALL BE NOTICED TO AFFECTED CUSTOMERS A MINIMUM OF 48 HOURS IN ADVANCE AND SHALL NOT EXCEED 4 HOURS IN DURATION.

WHERE CONCRETE REPAIRS ARE NECESSARY AND EXPANSION JOINTS ARE PRESENT, CONTRACTOR TO REMOVE AND REPLACE CONCRETE UP TO THE NEXT EXPANSION JOINT; OTHERWISE, REPLACE CONCRETE AS NECESSARY.

GROUNDWATER / DEWATERING NOTE:
 THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR THIS ISSUE. WHEN PERFORMING GRADING OPERATIONS DURING PERIODS OF WET WEATHER, PROVIDE ADEQUATE DEWATERING, DRAINAGE AND GROUND WATER MANAGEMENT TO CONTROL MOISTURE OF SOILS.

**PERMIT SET
 NOT FOR CONSTRUCTION**



No.	REVISIONS	DATE	BY

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 PHONE: 941-379-7600
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KHA PROJECT
DATE 4/1/2019
SCALE
DESIGNED BY JWW
DRAWN BY DMA
CHECKED BY AMM

SARASOTA COUNTY –
 PEACE RIVER INTERCONNECT

SARASOTA COUNTY

LICENSED PROFESSIONAL
 ASHLEY M. MIELE, P.E.
 66476
 FL DATE:

PROCTOR ROAD AND I-75
 CROSSING EXHIBIT

Approved
 2019-H-194-00121
 Leon Herndon
 4/8/2019

SHEET NUMBER

Legend
I-75 FMS Infrastructure



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Leon Herndon
4/8/2019
400 ft