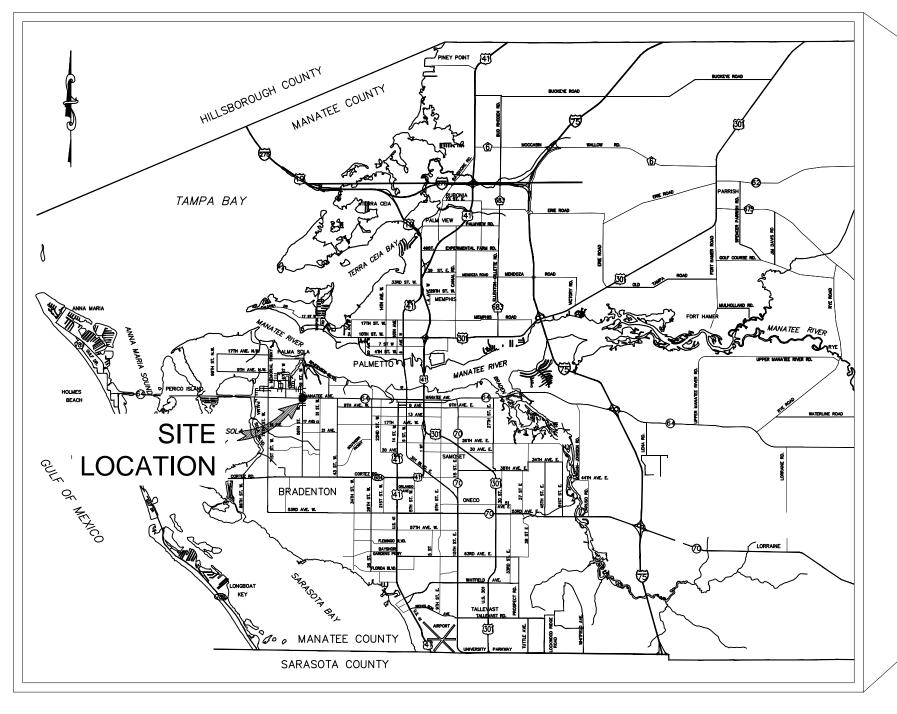


FORCEMAIN 15D REHABILITATION

COUNTY PROJECTS #6022381 AUGUST 2014

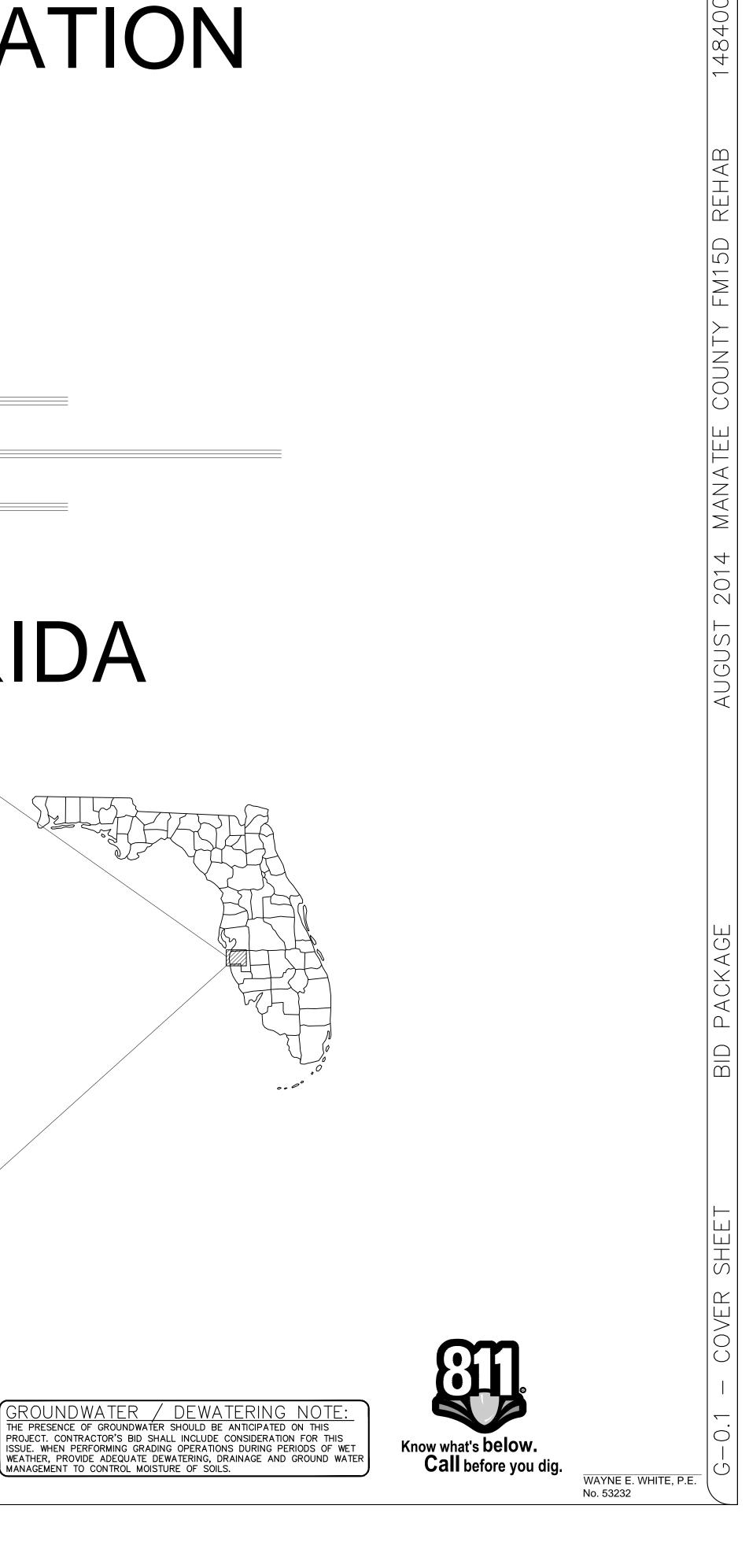
K Manatee County FLORIDA

MANATEE COUNTY, FLORIDA



PROJECT VICINITY MAP





SHEET NUMBER	SHEET TITLE		
G-01	COVER SHEET		
G-02	DRAWING INDEX AND GENERAL NOTES		
1 OF 2	TOPOGRAPHIC SURVEY COVER SHEET		
2 OF 2	TOPOGRAPHIC SURVEY PLAN SHEET		
C-0.1	PLAN AND PROFILE		
C-0.2	CROSS SECTIONS		
C-0.3	MOT PLAN		
D-01	DETAILS		
D-02	DETAILS		

<u>legend</u>

RIGHT OF WAY	
EXISTING ASPHALT	
EXISTING CONCRETE	
EXISTING SUBGRADE	
EXISTING WATER MAIN	-X-WT-02X-WT-02
EXISTING SEWER MAIN	XSS-16XSS-16
EXISTING STORM WATER	
EXISTING FORCE MAIN	XFM -20XFM -20
EXISTING BURIED TELEPHONE	· - BT BT BT
EXISTING UG ELECTRIC	
EXISTING GAS MAIN	GAS
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EXISTING STORM WATER MANHOLE	\bigcirc
EXISTING GRATE INLET	
EXISTING SANITARY MANHOLE	S
PROPOSED FORCE MAIN	PFM-20 PFM-20 PFM-20
EXISTING CURB INLET	
PROPOSED 6" SERVICE LATERAL	PSS06
EXISTING FIRE HYDRANT	, F.H.
EXISTING LIGHT POLE	-¢-
PROPOSED VALVE	\bowtie
EXISTING VALVE	\bowtie
SPOT GRADE	×55.5
EXISTING CONTOUR	
EXISTING CONTOUR EXISTING ASPHALT PAVEMENT	
	33.3· <i>⊲</i>

GENERAL NOTES

- THESE PLANS ARE SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF THE EXISTING CONDITIONS WHICH MAY BE ENCOUNTERED DURING THE COURSE OF WORK. CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATION NECESSARY TO DETERMINE THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED.
- 2. LOCATION, 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. 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) AFFECTING HIS WORK.
- 3. 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 ENGINEERS CLARIFICATION BEFORE COMMENCING.
- 4. THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, STORM DRAINS, SEWERS, UTILITIES, AND OTHER FACILITIES IN THE CONSTRUCTION AREA. THE CONTRACTOR SHALL REPAIR ANY DAMAGES DUE TO HIS CONSTRUCTION.
- 5. WHERE IT IS NECESSARY TO DEFLECT PIPE EITHER HORIZONTALLY OR VERTICALLY, PIPE JOINT DEFLECTION SHALL NOT EXCEED 75% OF THE MANUFACTURERS' MAXIMUM RECOMMENDED DEFLECTION.
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF THE EXISTING DRAINAGE SYSTEM WITHIN THE LIMITS OF THE PROJECT AREA FOR THE DURATION OF THE PROJECT.
- 7. 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.
- 8. THE CONTRACTOR SHALL PROVIDE THE OWNER AND ENGINEER WITH A DETAILED CONSTRUCTION PHASING PLAN FOR APPROVAL, PRIOR TO BEGINNING CONSTRUCTION.
- 9. FIELD CONDITIONS MAY NECESSITATE ALIGNMENT AND GRADE DEVIATION OF THE PROPOSED PIPELINES TO AVOID CONFLICTS. NO ADDITIONAL PAYMENT SHALL BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER AND THE OWNER'S ENGINEER.
- 10. THE CONTRACTOR SHALL INCLUDE IN HIS BID: BY-PASS PUMPING FACILITIES, PUMPS, FITTINGS, LABOR, ETC. AS NECESSARY, BASED ON METHOD AND SEQUENCE OF CONSTRUCTION TO COMPLETE ALL WORK WHILE MAINTAINING SEWER SERVICE OPERATIONS AT ALL TIMES.
- 11. ALL PROPOSED WORK SHALL BE COORDINATED WITH MANATEE COUNTY UTILITIES DEPARTMENT AT LEAST TWO WEEKS IN ADVANCE OF PROPOSED CONSTRUCTION.
- 12. 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.
- 13. CONNECTIONS TO EXISTING FACILITIES SHALL BE ACCOMPLISHED IN A NEAT WORKMANLIKE MANNER, WHEN FIELD CONDITIONS INDICATE ANY VARIANCE FROM DETAILED METHODS. THE CONTRACTOR SHALL PROVIDE COMPREHENSIVE AND DETAILED DRAWINGS FOR OWNER REVIEW AND APPROVAL PRIOR TO MAKING THE CONNECTIONS.
- 14. 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 BE FULLY RESTRAINED. CONTRACTOR TO FULLY RESTRAIN EXISTING PIPE AT TIE-IN LOCATIONS OF NEW PIPE.
- 15. ALL PIPELINES SHALL HAVE A MINIMUM COVER OF 36" BELOW EXISTING GRADE UNLESS OTHERWISE NOTED OR DIRECTED.
- 16. SANITARY SEWERS AND FORCEMAINS CROSSING OVER OR UNDER WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18" 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.
- 17. THE CONTRACTOR SHALL NOT ALLOW ANY DISCHARGE OF WASTEWATER TO LANDS AND/OR ADJACENT WATER BODIES OR STORM DRAINS. ANY LEAKAGE MUST BE CONTAINED AND REMOVED BY THE CONTRACTOR.
- 18. ALL BELOW-GRADE FITTINGS 4-INCHES AND GREATER IN DIAMETER SHALL BE MECHANICAL JOINT DUCTILE IRON WITH FACTORY APPLIED, FUSION BONDED EPOXY COATINGS FOR THEIR INTERIOR SURFACES AND COAL TAR ENAMEL COATING ON EXTERIOR SURFACES, AS NOTED IN SECTION 02615 OF SPECIFICATIONS.
- 19. ALL EXPOSED PIPING SHALL BE PAINTED WITH DESIGNATED COLORS ASSOCIATED WITH THEIR USAGE AS PROVIDED IN THE SPECIFICATIONS.
- 20. ALL NEW PIPELINES SHALL BE FLUSHED, PRESSURE TESTED, AND APPROVED PRIOR TO TIE-INS TO EXISTING FACILITIES. THE CONTRACTOR WILL BE ALLOWED TO USE TEMPORARY PLUGS FOR PRESSURE TESTING.
- 21. CONTRACTOR SHALL MAINTAIN A CLEAR PATH FOR ALL SURFACE WATER DRAINAGE STRUCTURES AND DITCHES DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL BE REQUIRED TO INSTALL ALL EROSION, SEDIMENT, AND TURBIDITY CONTROL MEASURES PRIOR TO CONSTRUCTION OF ANY COMPONENTS ASSOCIATED WITH THE PROJECT. SEDIMENT CONTROL INCLUDES SILT DAMS, TRAPS, EROSION PROTECTION, AND ANY OTHER APPURTENANCES NEEDED BUT NOT NECESSARILY SHOWN ON THESE DRAWINGS.
- 22. CONTRACTOR SHALL PROVIDE PROTECTIVE MATTING, FUEL CONTAINMENT AND ALL OTHER MATERIALS, EQUIPMENT AND LABOR TO PROTECT THE STAGING AREA DURING CONSTRUCTION.
- 23. 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.
- 24. THE CONTRACTOR SHALL COORDINATE THE STAGING AREA WITH THE OWNER. THERE WILL BE MULTIPLE PROJECTS UNDER CONSTRUCTION AT THE FACILITY AND IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE A SECURE AREA FOR THE STORAGE AND STAGING OF EQUIPMENT, INCLUDING BUT NOT LIMITED TO FENCING, GATES, AND ANY ADDITIONAL ITEMS THAT MAY BE NECESSARY TO SECURE THE AREA.

UTILITY NOTES

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE FOLLOWING JURISDICTIONAL BODIES AND UTILITY COMPANIES:

CALL 2 BUSINESS DAYS BEFORE YOU DIG $\approx V$ IT'S THE LAW! Know what's **below.** DIAL 811 Call before you d SUNSHINE STATE ONE CALL OF FLORIDA, INC.

VERIZON FLORIDA, INC. PATTI RFID 1701 RINGLING BLVD. SARASOTA, FLORIDA 34236 (941) 906–6711

FLORIDA POWER & LIGHT TRACY STERNM 2900 CATHERINE ST. PALATKA, FL 32177 (800) 868–9554

CITY OF BRADENTON DONALD BRUNNER 101 OLD MAIN ST W. BRADENTON, FL 34205 (941) 708–6334

TECO PEOPLES GAS DANNY SHANAHAN 8261 VICO CT SARASOTA, FL 34240 (941) 342-4006

MANATEE COUNTY PUBLIC WORKS BRIAN BATES 1022 26TH AVENUE EAST BRADENTON, FL 34208-3916 (941) 708-7450 EXT. 7329

BRIGHTHOUSE NETWORKS TOM WRIGHT 5413 SR 64 E BRADENTON, FL 34208 (941) 345-1348 EXT. 21348

FDOT ED GIDDENS 1840 61ST STREET SARASOTA, FL 34243 (941) 359–7313

- 2. ALL UTILITY CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE LATEST VERSION OF THE MANATEE COUNTY UTILITY STANDARDS.
- 3. ALL VALVE BOX COVERS SHALL BE PAINTED TO INDICATE THEIR TYPE OF SERVICE.
- 4. ALL TEST POINT TAPPING SHALL BE CUT LOOSE FROM THE CORPORATION STOP AND COMPLETELY REMOVED AND DISPOSED OF BY THE CONTRACTOR PRIOR TO FINAL ACCEPTANCE. THE CORPORATION STOP SHALL BE CAPPED AND REMAIN IN PLACE,
- 6. ADJUST EXISTING MANHOLE FRAMES AND COVERS TO MATCH FINAL GRADE.

RESTORATION AND MISCELLANEOUS NOTES

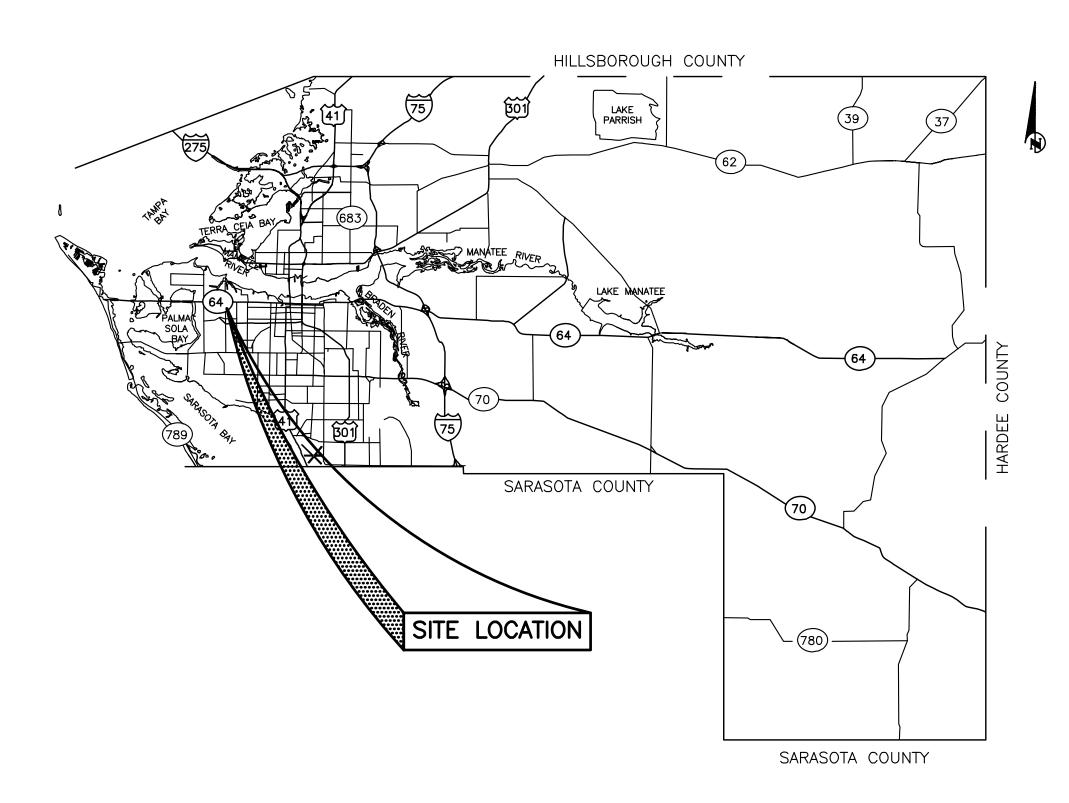
- 1. ALL RESTORATION WORK PERFORMED THROUGHOUT THE PROJECT SHALL CONFORM TO EXISTING LINES AND GRADES UNLESS OTHERWISE NOTED.
- 2. THE CONTRACTOR SHALL PROVIDE AN ASPHALT PATCH FOR TRENCH AREAS CONSTRUCTED IN EXISTING ROADWAYS. ADJUST ALL CASTINGS TO MATCH NEW PAVEMENT SURFACE
- 3. ALL MILLING AND OVERLAYING SHALL BE IN ACCORDANCE WITH SECTION 327 OF FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- 4. THE CONTRACTOR SHALL REPLACE ALL EXISTING PAVING, STABILIZED EARTH, CURBS, SIDEWALKS, FENCES, LANDSCAPING, AND OTHER IMPROVEMENTS WITH THE SAME OR BETTER TYPE AND QUANTITY OF MATERIAL THAT WAS REMOVED DURING CONSTRUCTION OR AS DIRECTED BY THE ENGINEER.
- 5. 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.
- 6. CONTRACTOR SHALL RESTORE ALL IRRIGATION SYSTEM COMPONENTS TO PRE-CONSTRUCTION CONDITIONS.
- 7. THE CONTRACTOR SHALL ADJUST EXISTING MANHOLE FRAMES AND COVERS TO MATCH FINAL GRADE.
- 8. ALL DISTURBED GRASSED AREAS SHALL BE RESTORED WITH THE SOD IN LIKE KIND UNLESS OTHERWISE DIRECTED BY OWNER. CONTRACTOR SHALL ROLL ALL SODDED AREAS.
- 9. CONCRETE SIDEWALKS SHALL BE RESTORED WITH 4 INCHES OF 3,000 PSI CONCRETE PER FDOT DESIGN STANDARDS, SECTIONS 522 & 310.

FDOT NOTES

- ALL WORK PERFORMED WITHIN THE FDOT R/W SHALL CONFORM TO: 1. FDOT STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION
- (2010) (A.K.A. STANDARD SPECS). 2. FDOT DESIGN STANDARDS FOR DESIGN, CONSTRUCTION, MAINTENANCE AND OPERATIONS ON THE STATE HIGHWAY SYSTEM, JAN, 2013, (A.K.A. STANDARD INDEX). COMPLIANCE WITH ALL APPLICABLE INDICES IS REQUIRED.
- 3. FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY PLANS PREPARATION MANUAL, VOLUME 1, CHAPTERS 2 AND 25. (REVISED 2010).
- 4. FLORIDA DEPARTMENT OF TRANSPORTATION FLEXIBLE PAVEMENT DESIGN MANUAL FOR NEW CONSTRUCTION AND PAVEMENT REHABILITATION, JANUARY 2010.
- 5. ALL TRAFFIC STRIPES AND MARKINGS ARE TO BE LEAD FREE, NON-SOLVENT BASED THERMOPLASTIC. THE PERMITTEE SHALL FURNISH THE DEPARTMENT WITH THE MANUFACTURER'S CERTIFICATION THAT THE THERMOPLASTIC IS "LEAD FREE".
- 6. LANE CLOSURE MAY NEED TO BE ALTERED DEPENDING ON THE AREA THE WORK IS TAKING PLACE.

		ATE BY
	DEWATERING NOTES	DA
LOWING	 THE CONTRACTOR SHALL OBTAIN AUTHORIZATION FROM THE MANATEE COUNTY UTILITIES DEPARTMENT (MCUD) OFFICE OF INDUSTRIAL COMPLIANCE PRIOR TO DEWATERING. COMPLETION OF A CONSTRUCTION DEWATERING AUTHORIZATION TO DISCHARGE APPLICATION IS REQUIRED. FILL OUT FORM AS COMPLETELY AS POSSIBLE AS MISSING INFORMATION DELAYS THE APPROVAL PROCESS. 	
	2. THE MCUD OFFICE OF INDUSTRIAL COMPLIANCE WILL DETERMINE WHETHER A LETTER OF APPROVAL, A DISCHARGE AUTHORIZATION, OR A DISCHARGE PERMIT IS REQUIRED.	EVISIONS
RKS	3. FOR SITES SUSPECTED OF CONTAMINATED GROUNDWATER MANATEE COUNTY WILL REQUIRE AN APPLICANT TO DEMONSTRATE THAT THE DISCHARGE MEETS THE MANATEE COUNTY SEWER USE ORDINANCE.	RE L
		FREMER SUITE 150, TAMPA, FL 33602 B55 NORTH FRANKLIN STREET, SUITE 150, TAMPA, FL 33602 PHONE: 813–620–1460 WWW.KIMLEY-HORN.COM CA 00000696
<u>s notes</u>	5	KHA PROJECT 148400004 DATE JUNE 2014 JUNE 2014 ALE AS SHOWN SIGNED BY JWW IAWN BY SNH IECKED BY WEW IECKED BY WEW IECKED BY WEW IAMN BY STATUR IN INTER, P.E. 53232 5325 5325 5325 532
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PROJECT. CONTRA ISSUE. WHEN PER	F GROUNDWATER SHOULD BE ANTICIPATED ON THIS ACTOR'S BID SHALL INCLUDE CONSIDERATION FOR THIS FORMING GRADING OPERATIONS DURING PERIODS OF WET Know what's below.	REHABILITATION RANTEE COUNTY FORCE MAIN 15D REHABILITATION FORDE
WEATHER, PROVID	E ADEQUATE DEWATERING, DRAINAGE AND GROUND WATER CONTROL MOISTURE OF SOILS.	ig. Sheet Number G-02

MANATEE COUNTY, FLORIDA FORCEMAIN 15 D REPLACEMENT **STATE ROAD 64 / 59TH STREET WEST**





MAY 2014

GENERAL NOTES

- 1. THE FOLLOWING NGS VERTICAL CONTROL MONUMENT WAS RECOVERED AND UTILIZED FOR THE ELEVATIONS SHOWN HEREIN: "N 689" NAVD 1988 ELEVATION 23.46"
- 2. THIS SURVEY IS REFERENCED TO A PROJECTION OF THE FLORIDA STATE PLANE COORDINATE SYSTEM (WEST ZONE NAD 1983/2007 ADJUSTMENT).
- TITLE WORK WAS NOT PROVIDED FOR THIS SURVEY. RIGHT-OF-WAY LINES SHOWN HEREIN ARE BASED ON FOUND BOUNDARY MONUMENTATION TOGETHER WITH PUBLIC INFORMATION AVAILABLE ON FDOT AND MANATEE COUNTY CLERKS WEBSITES.
- THIS SURVEY IS SUBJECT TO PERTINENT EASEMENTS, 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.

SITE CONTROL

DESIGNATION	NORTHING	EASTING	ELEVATION	DESCRIPTION
BM 4	1150021.205	455047.978	24.12'	NLD (MANATEE COUNTY)
BM 5	1149661.531	454992.709	24.55'	IRC (MANATEE COUNTY)

NO.	INDEX	
1	COV	
2	PLA	

TO PROVIDE EXISTING TOPOGRAPHIC CONDITIONS ALONG 59TH STREET WEST NORTH AND SOUTH OF STATE ROAD 64 FOR FORCEMAIN REPLACEMENT.

Hyatt Survey Services, Inc. LB No.: 7203 Geographic Data Specialists 11007 8th Avenue East Bradenton, Florida 34212 Phone: (941) 748-4693 Fax: (941) 744-1643

Gounty				
FORCEMAIN 15 D REPLACEMENT STATE ROAD 64 / 59TH STREET WEST TOPOGRAPHIC SURVEY COVER SHEET				
DATE				
REVISION DESCRIPTION				
Ö				
PROJECT # 14–1852 SURVEY # 14–1852				
SECTION 29 TWN RNG 34 SOUTH 17 EAST				
SCALE N/A SURVEYED HYATT 5/2014				
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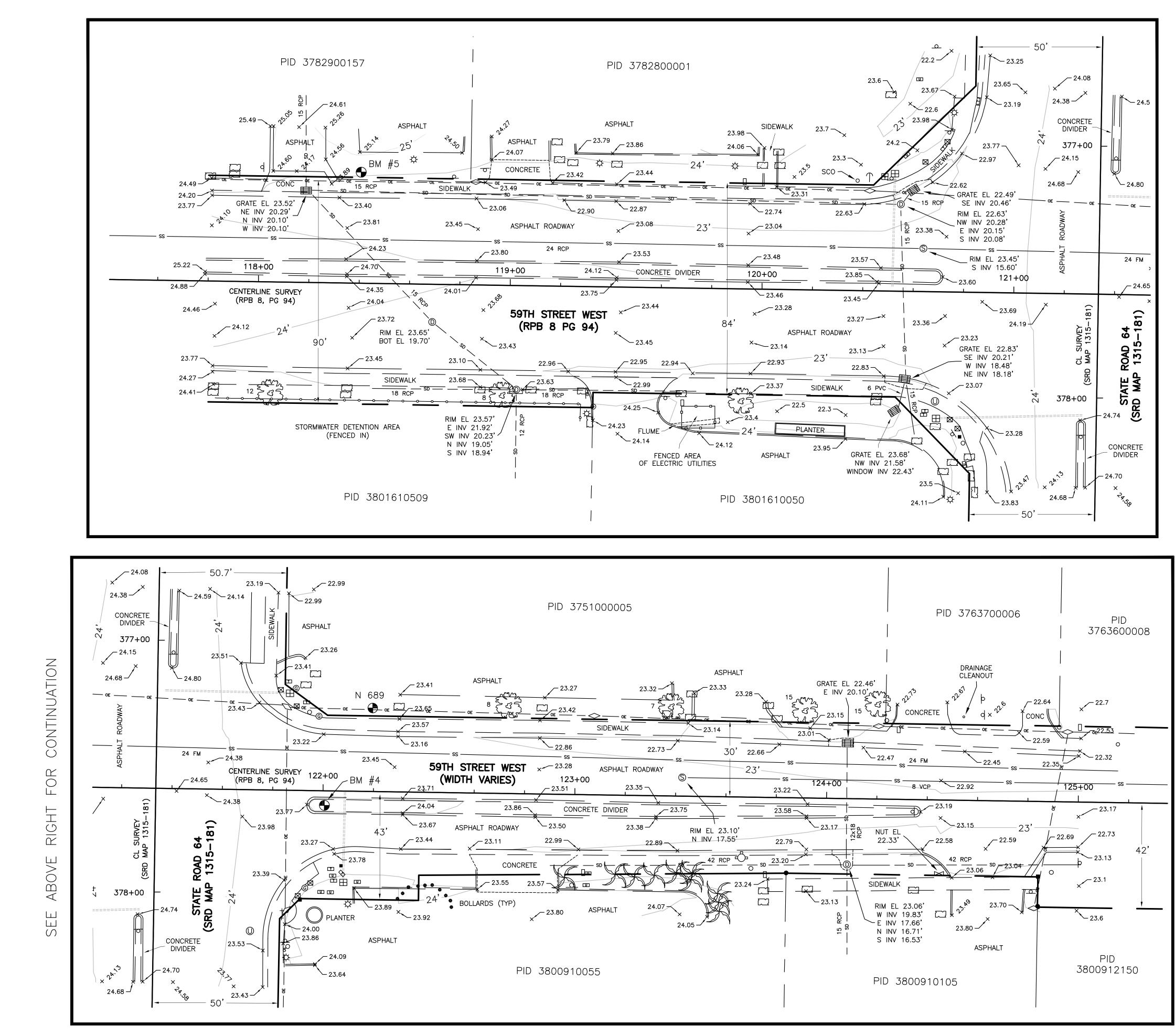
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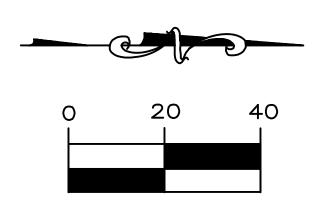
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PROJECT DESCRIPTION

THIS SURVEY IS NOT VALID WITHOUT THE SIGNATURE AND ORIGINA RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

RUSSELL P. HYATT, PSM FLORIDA SURVEYORS REGISTRATION NO. 5303



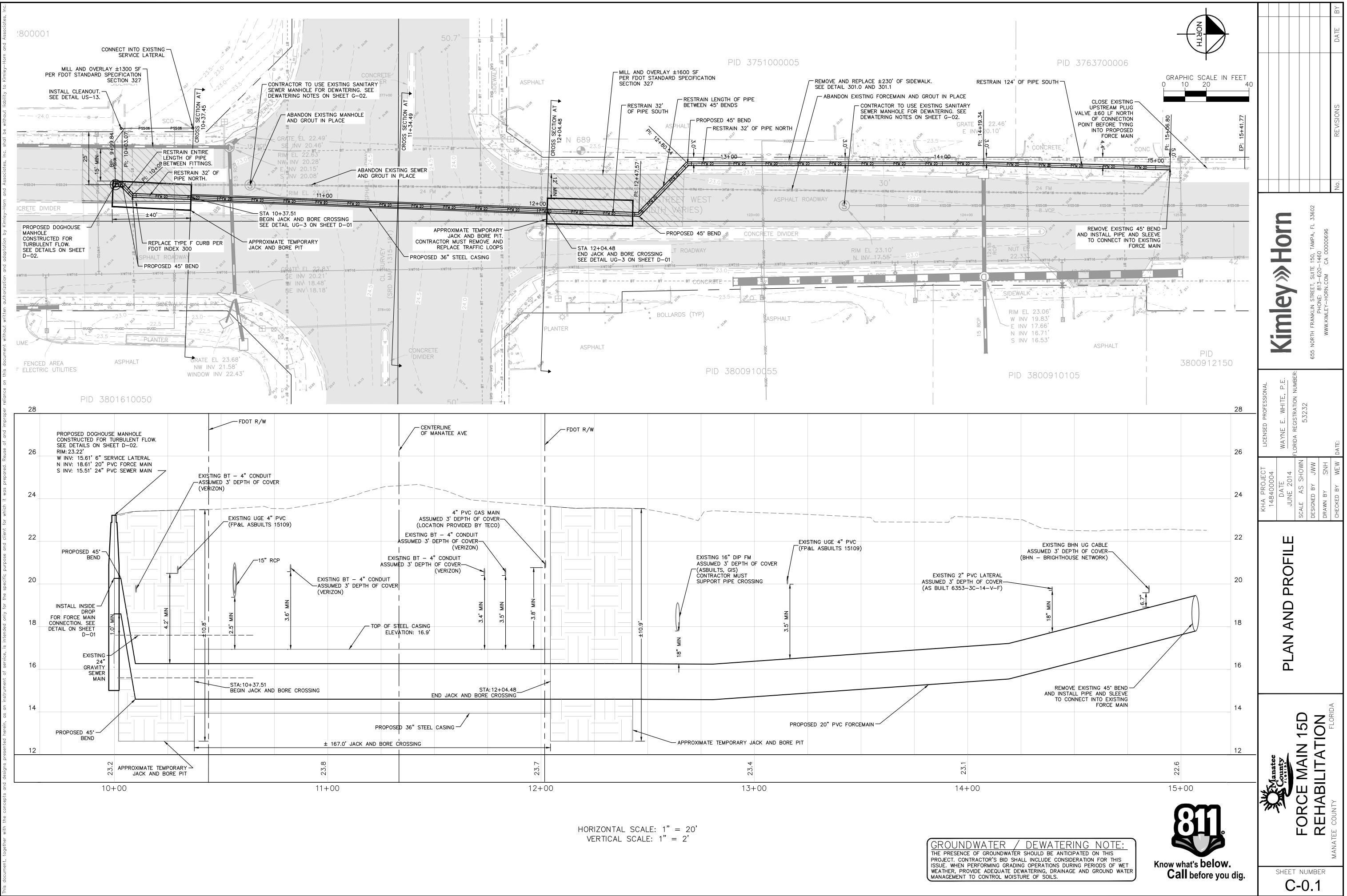


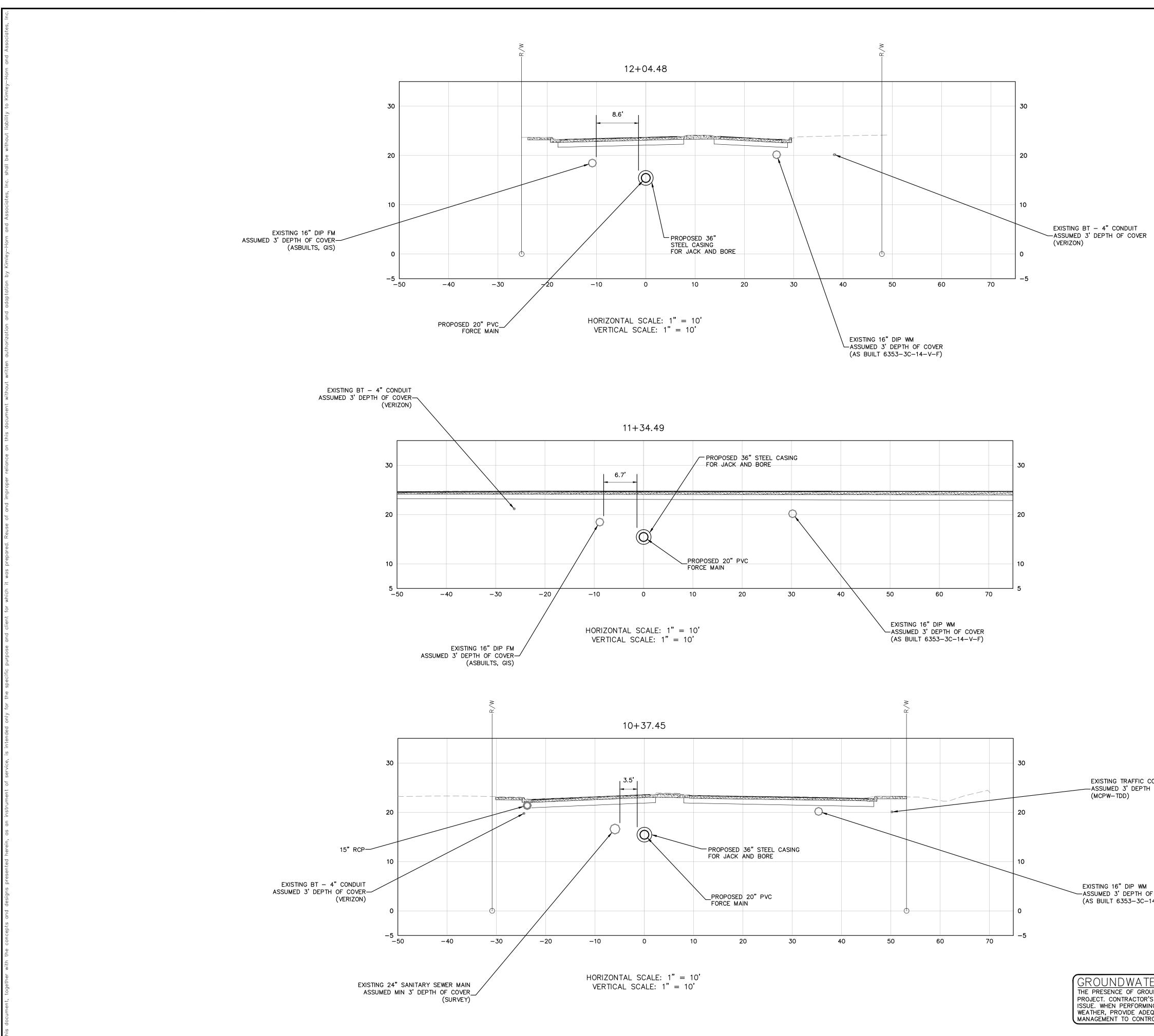
LEGEND

0	IRON PIPE
●	IRON ROD W/ CAP
0	PK NAIL W/ DISC
	CONCRETE MONUMENT
R/W	RIGHT-OF WAY
PID	PARCEL IDENTIFICATION
RPB	ROAD PLAT BOOK
ORB	OFFICIAL RECORD BOOK
PG	PAGE
BM	SITE CONTROL POINT
SCO	SANITARY CLEANOUT
	SITE BENCHMARK
0	SIGN
\diamond	UTILITY POLE
\leftarrow	GUY WIRE
	WATER METER
S	SANITARY MANHOLE
D	STORM MANHOLE
ď	MAILBOX
¢	LIGHT POLE
Ŷ	FIRE HYDRANT
-0-	BACKFLOW PREVENTER
\blacksquare	TRAFFIC MASTARM
\boxtimes	TRAFFIC CROSSING SIGNAL
	HEDGE
	OAK TREE
X	PALM TREE
G	GAS MARK
\bowtie	WATER VALVE

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		. REVISIONS DATE BY
		Kimley » Horn 655 NORTH FRANKLIN STREET, SUITE 150, TAMPA, FL 33602 PHONE: 813–620–1460 WWW.KIMLEY-HORN.COM CA 00000696
		KHA PROJECT 148400004LICENSED PROFESSIONAL 148400004DATE DATE JUNE 2014WAYNE E. WHITE, P.E. WAYNE E. WHITE, P.E. SCALE AS SHOWNSCALE AS SHOWN DESIGNED BY JWWFLORIDA REGISTRATION NUMBER: 53232DESIGNED BY JWW DRAWN BY SNH53232DESIGNED BY JWW
ONDUIT OF COVER		CROSS SECTIONS
$\frac{F}{4-V-F}$		FORCE MAIN 15D REHABILITATION MANATEE COUNTY FLORIDA
INDWATER SHOULD BE ANTICIPATED ON THIS 5 BID SHALL INCLUDE CONSIDERATION FOR THIS 6 GRADING OPERATIONS DURING PERIODS OF WET 2004TE DEWATERING, DRAINAGE AND GROUND WATER 01 MOISTURE OF SOILS.	Know what's below. Call before you dig.	SHEET NUMBER

EXISTING TRAFFIC CONE —ASSUMED 3' DEPTH OF (MCPW-TDD)

GROUNDWATER THE PRESENCE OF GROUND PROJECT. CONTRACTOR'S B ISSUE. WHEN PERFORMING O WEATHER, PROVIDE ADEQUA MANAGEMENT TO CONTROL

