#### PROJECT TEAM:

<u>OWNER:</u> MANATEE COUNTY 1022 26TH AVE. E. BRADENTON, FL 34208 CONTACT: BRETT GOCKA, P.E. 941-708-7450 EXT. 7232

ENGINEER: KIMLEY-HORN AND ASSOCIATES, INC. 100 2ND AVENUE SOUTH, SUITE 105N ST. PETERSBURG, FL 33701 CONTACT: MICHAEL A. SEMAGO, P.E. 727-498-3633

<u>SURVEYOR:</u> GEORGE F. YOUNG 299 DR. MARTIN LUTHER KING JR. STREET NORTH SAINT PETERSBURG, FL 33701 CONTACT: MICHAEL ROSS, PSM 727-822-4317

HYATT SURVEY SERVICES INC. 11007 8TH AVENUE EAST BRADENTON, FLORIDA 34212 CONTACT: JOHN MATTHEWS 941-748-4693

#### UTILITY CONTACTS:

FLORIDA POWER & LIGHT JOEL BRAY 4215 UP THE GROVE LANE WEST PALM BEACH, FL 33407 BRADENTON, FL 34205 386-586-6403

FRONTIER COMMUNICATIONS toni cannon 3712 W WALNUT ST TAMPA, FL 33607 813-875-1014

CHARTER COMMUNICATIONS JAMES CRUZAN 5413 SR 64 E BRADENTON, FL 34208 727-329-2846

ZAYO GROUP HENY KLOBUCAR 130 N MAIN ST BUTTE, MT 59701 406-496-6510

CITY OF BRADENTON JIM MCLELLAN 1411 9TH STREET W 941-462-1989

MANATEE COUNTY KATHY MCMAHON 4520- 66TH STREET W BRADENTON, FL 34210 941-792-8811 EXT. 5002

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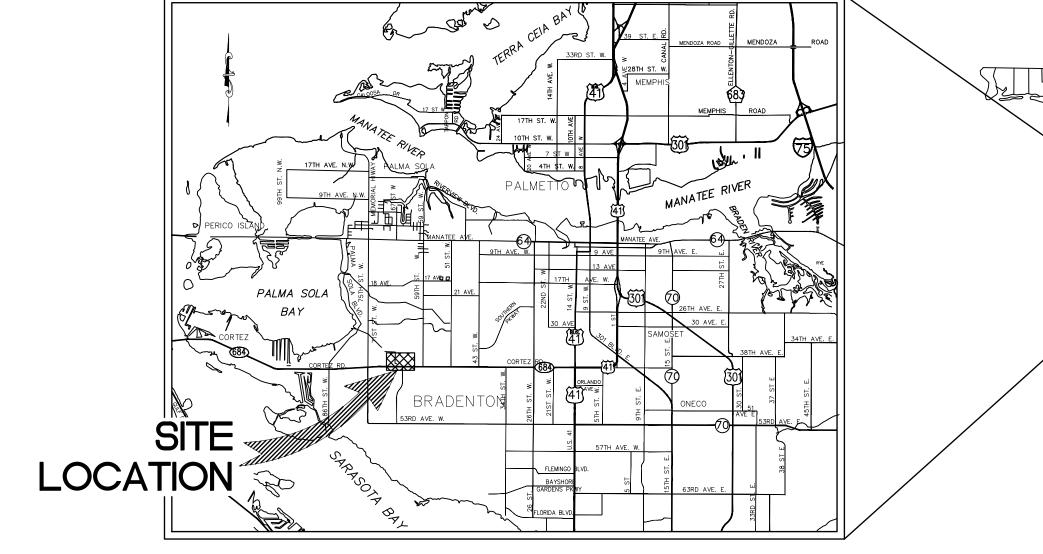
# **CONSTRUCTION PLANS** FOR FORCE MAIN 1D GROUT PLAN

## MANATEE COUNTY, FLORIDA

MAY 2021

## MANATEE COUNTY PROJECT #5159480





PROJECT VICINITY MAP N.T.S.

## **BID SUBMITTAL**



			DATE FFBRUARY 2021
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	MEANS WHATSOEVER IS STRICTLY PROHIBITED	MICHAEL A. SEMAGO, P.E.	SHEET NUMBER
	KIMLEY-HORN AND ASSOCIATES, INC. CONSENT IS HEREBY GRANTED SPECIFICALLY TO GOVERNMENTAL	FLORIDA LICENSE NUMBER:	G-1
DATE BY	AGENCIES TO REPRODUCE THIS DOCUMENT IN COMPLIANCE WITH F.S. CHAPTER 119.	87501 date:	G-1

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.

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REVISIONS

SHEET TITLE
COVER SHEET
GENERAL NOTES
GROUT PLAN
ENLARGED DETAIL - CORTEZ
RD AND 66TH ST W
ENLARGED DETAIL - 63TH ST
W
DETAILS

es, Inc	GENERAL	RAINFALL AND SHALL BE
Associat	1. ALL CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH THE PROJECT MANAGEMENT DIVISION. THE PROJECT MANAGER IS: BRETT GOCKA, P.E. AND CAN BE REACHED AT (941) 708-7450 X 7232.	30. THE CONTRACTOR SHALL NEAR THE CONSTRUCTION
orn and	2. IF THE CONTRACTOR WANTS A SITE VISIT PRIOR TO BIDDING, THESE SHALL BE ARRANGED THROUGH THE COUNTY'S PURCHASING DIVISION.	PERFORMED IN COMPLIAN CONTRACTOR WILL BE RE PERMIT CONDITIONS.
to Kimley–H	3. ALL CONSTRUCTION ON THIS PROJECT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF MANATEE COUNTY PUBLIC WORKS STANDARDS UTILITIES STANDARDS MANUAL AND HIGHWAY & TRAFFIC STANDARDS MANUAL AND/OR FDOT "STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION" UNLESS OTHERWISE INDICATED ON THE PLANS.	<ul><li>31. CONTRACTOR SHALL PRC AND LABOR TO PROTECT</li><li>32. CONTRACTOR SHALL, PRI</li></ul>
out liability t	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	SHALL CLEARLY INDICATE THE STAGING AREA.
be witho	OWNER. 5. THE INFORMATION PROVIDED IN THESE PLANS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE	33. ALL CONSTRUCTION ACTI PUBLIC RIGHT-OF-WAYS
, Inc. shall	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.	34. THE CONTRACTOR SHALL AND RESTORE PROPERTY CONSTRUCTION AT NO A
d Associates	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.	35. THE CONTRACTOR, PRIOR RIGHTS-OF-WAY USE PE REQUIRED PERMITS FROM AND PROTECTION OF TRA
authorization and adaptation by Kimley—Horn and Associates, Inc. shall be without liability to Kimley—Horn and Associates, Inc	7. THE CONTRACTOR SHALL NOTIFY SUNSHINE 811 (1-800-432-4770) 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 OR UTILITY EASEMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT EXISTING UTILITIES FROM DAMAGE. EXPLORATORY EXCAVATION MAY BE REQUIRED PRIOR TO CONNECTION TO EXISTING UTILITIES.	CURRENT FLORIDA DEPAF MAINTENANCE OF TRAFFI BY THE CONTRACTOR AT 36. THE CONTRACTOR SHALL
ation by Ki	<ol> <li>NO WORK, EXCEPT FOR EMERGENCY TYPE, SHALL BE PERFORMED AFTER 7:00 PM AND BEFORE 7:00 AM. FOR ADDITIONAL PROJECT RESTRAINTS, REFER TO SECTION 01310 OF THE SPECIFICATIONS.</li> </ol>	ENTRANCE PIPE AND HEA REPLACED IN ACCORDAN 37. IT IS THE RESPONSIBILITY
and adapto	9. 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	38. THE CONTRACTOR SHALL ANY WORK ON THE OWN
luthorization	MONTHLY PROGRESS MEETING. 10. THE CONTRACTOR SHALL INCLUDE IN HIS BID: DEWATERING PUMPING FACILITIES, PUMPS, FITTINGS, LABOR, ETC. AS NECESSARY, BASED ON METHOD AND SEQUENCE OF CONSTRUCTION TO COMPLETE ALL WORK WHILE	ALL TIMES DURING CONS 39. A RIGHT OF ENTRY AGRE OWNER BEFORE ANY DRIV
	MAINTAINING SERVICE OPERATIONS AT ALL TIMES. 11. ALL PROPOSED WORK SHALL BE COORDINATED WITH MANATEE COUNTY UTILITIES DEPARTMENT AT LEAST TWO	UTILITIES
without	WEEKS IN ADVANCE OF PROPOSED CONSTRUCTION. 12. THE CONTRACTOR SHALL FURNISH SHOP DRAWINGS TO THE ENGINEER FOR REVIEW OF ALL PIPE CONNECTIONS,	40. LOCATIONS, ELEVATIONS SHOWN TO THE BEST INF PURPORT TO BE ABSOLU
this document	TRANSITIONS, AND SPECIAL APPURTENANCES PRIOR TO FABRICATION OR DELIVERY TO THE JOB SITE. 13. UNLESS OTHERWISE INDICATED OR APPROVED, ALL BELOW GROUND PVC PIPE SHALL HAVE PUSH—ON OR MECHANICAL JOINTS, AND ALL ABOVE GROUND PVC PIPE SHALL HAVE FLANGED JOINTS. ALL JOINTS SHALL BE FULLY RESTRAINED PER THE DETAILS IN THESE PLANS.	WITHIN THE PROJECT ARI LOCATION SHOWN OR RE PRIOR TO CONSTRUCTION STRUCTURES AND OTHER ALL EXISTING UTILITIES T CONSTRUCTION TO VERIF
of and improper reliance on this document without written	14. SANITARY SEWERS AND FORCE MAINS 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, CONSISTENT WITH F.A.C. RULE 62-555.314.	BROUGHT TO THE ENGINE 41. THE CONTRACTOR SHALL UTILITIES, DRIVEWAYS, SII IMPROVEMENT OR FACILIT ANY DAMAGED ITEM DUE
and impro	15. ALL BELOW-GRADE FITTINGS 4-INCHES AND GREATER IN DIAMETER SHALL BE MECHANICAL JOINT DUCTILE IRON WITH AN APPROVED LINING FOR THEIR INTERIOR SURFACES AND COAL TAR ENAMEL COATING ON EXTERIOR SURFACES, AS NOTED IN SECTION 02615 OF SPECIFICATIONS.	42. THE CONTRACTOR SHALL FLORIDA POWER AND LIG
Reuse of	16. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SECURE PROPERTY FOR STAGING MATERIALS AND EQUIPMENT.	POWER POLES IS RECOM ACTIVITY WITH THE UTILI
as prepared. Reuse	17. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO ACQUIRE, OR ENTER INTO AGREEMENTS, FOR LANDS 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 TAKE NO RESPONSIBILITY FOR DELAYS IN THIS REGARD.	43. ANY TEMPORARY SHUTDO DURING CONSTRUCTIONS THE MANATEE COUNTY U IS NOTED THAT TEMPORA OR NIGHT AND WILL BE
specific purpose and client for which it was	18. COORDINATION AND PUBLIC INFORMATION FOR AND WITH AREA RESIDENTS ARE OF THE UTMOST IMPORTANCE. CONTRACTOR WILL INSURE 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.	44. THE ELEVATIONS OF THE ANTICIPATED SOIL COVER SHALL BE RESPONSIBLE PROPOSED FORCE MAIN. CONSTRUCTION, THE COS UTILITIES CONFLICTING WI EXISTING UTILITY SERVICE
ose and	<u>SAFETY</u> 19. 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	AND SHALL NOT EXCEED
cific purp	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.	45. ALL RESTORATION WORK GRADES UNLESS SHOWN
the spec	20. THE CONTRACTOR SHALL USE SHEET PILING, SHEETING, BRACING, ETC., AS REQUIRED IN ALL EXCAVATION AREAS AND CONFORM TO ALL OSHA REQUIREMENTS.	46. ALL DISTURBED GRASSED REPLACE OWNER MAINTA
only for	21. THE CONTRACTOR SHALL USE ALL NECESSARY SAFETY PRECAUTIONS TO AVOID CONTACT WITH OVERHEAD AND UNDERGROUND UTILITIES, POWER LINES, ETC.	47. ALL CONCRETE THRUST E OF THE PIPELINE SHALL
tended	22. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. THESE EXCLUSIONS DO NOT RELIEVE THE CONTRACTOR FROM PROVIDING ANY REQUIRED SAFETY EQUIPMENT, SUPPLIES, OR APPARATUS AS NEEDED TO EXECUTE THE WORK EFFECTIVELY AND SAFELY AS OUTLINES IN THE PLANS AND	AT NO ADDITIONAL COST 48. ASPHALT DRIVES THAT A
vice, is ir	SPECIFICATIONS. THE CONTRACTOR ACCEPTS ANY AND ALL LIABILITY FROM THE CONTRACTOR'S FAILURE TO PROVIDE A SAFE WORK ENVIRONMENT.	49. CONCRETE DRIVEWAYS OF THE 2020-2021 EDITIONS AND DRIVEWAYS INDEX 5
instrument of service, is intended only for	ENVIRONMENTAL 23. 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	50. WHENEVER A PERMANEN COMPACTION OF THE NEV SHALL INSTALL A TEMPO
an	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. 24. STOCKPILES SHALL BE PROTECTED AT ALL TIMES BY ON-SITE DRAINAGE CONTROLS WHICH PREVENT EROSION	COAT OF ASPHALT EMUL TWENTY-ONE CALENDAR 51. RESTORATION OF CURBS,
herein, as	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.	THE CONTRACTOR HAS C MORE THAN 10 DAYS FR 52. ALL EXISTING FENCES DIS
presented	25. STORM WATER INLETS IN THE VICINITY OF THE PROJECT SHALL BE PROTECTED BY SEDIMENT TRAPS SUCH AS SECURED HAY BALES, SOD, STONE, ETC., 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.	52. WHERE CONTRACTOR AT CONSTRUCTION PLANS. 53. WHERE CONCRETE REPAIR
his document, together with the concepts and designs presented herein, as	26. 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.	CONTRACTOR SHALL REM ANY CURB REQUIRING CC CONSTRUCTION
the concept.	SUCH SYSTEMS SHALL BE FULLY OPERATIVE 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.	54. THE EXHAUST SYSTEM O THE EQUIPMENT MANUFA NOISE ABATEMENT BAFFL RESIDENCES, AS APPROV
ner with	27. ALL SWALES, DITCHES, AND CHANNELS LEADING FROM THE SITE SHALL BE PROTECTED FROM SILTATION AND EROSION PRIOR TO THE START OF CONSTRUCTION AND MAINTAINED THRU THE CONTRACT TERM. ALL SODDING SHALL BE PERFORMED WITHIN THREE (3) DAYS OF EXCAVATION.	55. NO MATERIAL SHALL BE SITE DAILY. ROADS SHAL
ient, togeth	28. 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, FULTER FABRIC AND TURBIDITY SCREENS	56. THE CONTRACTOR IS TO METHODS AS REQUIRED.
This docum	FILTER FABRIC, AND TURBIDITY SCREENS. 29. ALL EROSION AND POLLUTION CONTROL DEVICES SHALL BE CHECKED REGULARLY, ESPECIALLY AFTER EACH	57. INGRESS AND EGRESS TO TIMES.
	l Vin	
		nley»F
		KIMLEY-HORN AND ASSO SOUTH, SUITE 105N, ST. PE
		PHONE: 727-547-3999

DATE BY

REVISIONS

CLEANED OUT AND/OR REPAIRED AS REQUIRED.

- NOT ENTER UPON OR IN ANY WAY ALTER WETLAND AREAS THAT MAY BE ON OR N SITE. ALL WORK IN THE VICINITY OF OPEN WATER AND/OR WETLANDS IS TO BE NCE WITH THE ENVIRONMENTAL REGULATIONS AND /OR PERMITS FOR THE SITE. THE ESPONSIBLE FOR ANY FINES RESULTING FROM HIS VIOLATION OF ANY REGULATIONS OR
- DVIDE PROTECTIVE MATTING, FUEL CONTAINMENT AND ALL OTHER MATERIALS, EQUIPMENT THE STAGING AREA DURING CONSTRUCTION.
- RIOR TO BEGINNING CONSTRUCTION, SUBMIT A "FUELING SPILL PREVENTION PLAN" THAT HOW FUEL SPILLS WILL BE PREVENTED WHEN FUELING BOTH WITHIN AND OUTSIDE OF
- IVITIES SHALL BE LIMITED TO WITHIN THE MANATEE COUNTY RIGHT-OF-WAY, OTHER OR EASEMENTS SHOWN ON THE DRAWINGS.
- EMPLOY A LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA TO REFERENCE CORNER MONUMENTS, PINS, AND LANDMARKS THAT MAY BE DISTURBED BY DDITIONAL COST TO THE OWNER.
- TO CONSTRUCTION AND RESTRICTING ANY TRAFFIC, MUST OBTAIN ANY REQUIRED RMITS AND A TRAFFIC CONTROL PLAN. THE CONTRACTOR SHALL OBTAIN ALL OTHER GOVERNMENTAL AGENCIES HAVING RELEVANT JURISDICTION. ALL MAINTENANCE AFFIC SHALL BE IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE TMENT OF TRANSPORTATION "STANDARD PLANS FOR ROAD CONSTRUCTION " INDEX 102-600 THROUGH 102-680. A TRAFFIC CONTROL PLAN SHALL BE SUPPLIED THE PRE-CONSTRUCTION MEETING, PER SPECIFICATIONS 01570.
- BE RESPONSIBLE FOR REPLACING ALL DAMAGED STORM WATER STRUCTURES, PIPING, ADWALLS WHETHER SHOWN ON THE PLANS OR NOT. THE HEADWALLS SHALL BE NCE WITH F.D.O.T. STANDARDS, OR THE APPLICABLE JURISDICTION.
- Y OF THE CONTRACTOR TO ESTABLISH IN THE FIELD THE RIGHT-OF-WAY LINES, BASE ELEV.), CENTER LINES, AND STATIONING AS REQUIRED TO CONSTRUCT THIS PROJECT.
- BE RESPONSIBLE FOR COORDINATING WITH PROPERTY OWNERS PRIOR TO PERFORMING ER'S DRIVEWAY. CONTRACTOR SHALL MAINTAIN SAFE ACCESS TO THE PROPERTY AT STRUCTION.
- EEMENT SHALL BE OBTAINED BY THE CONSTRUCTION MANAGER FROM THE PROPERTY IVEWAY CONSTRUCTION WORK IS DONE OUTSIDE OF THE RIGHT-OF-WAY OR EASEMENT.
- AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE FORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS BUT DO NOT JTELY CORRECT. THERE MAY BE OTHER IMPROVEMENTS, UTILITIES, ETC. WHICH ARE EA AND WHICH HAVE NOT BEEN LOCATED OR IDENTIFIED, MAY NOT BE IN THE EXACT LOCATED SINCE THE PREPARATION OF THESE PLANS. THE CONTRACTOR SHALL VERIFY, THE LOCATIONS, ELEVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES FEATURES (WHETHER OR NOT SHOWN ON THE PLANS) THAT MAY EFFECT HIS WORK. TO BE EXTENDED, CROSSED OR CONNECTION POINTS SHALL BE EXPOSED PRIOR TO Y LOCATION AND ELEVATION. ANY DISCREPANCIES OR CONFLICTS FOUND SHALL BE IEER'S ATTENTION FOR RESOLUTION.
- PROTECT ALL EXISTING STRUCTURES, WATER AND SEWER LINES, STORM DRAINS, IDEWALKS, SIGNS, MAIL BOXES, FENCES, TREES, LANDSCAPING, AND ANY OTHER TY IN THE CONSTRUCTION AREA. THE CONTRACTOR SHALL REPAIR AND/OR REPLACE TO HIS CONSTRUCTION ACTIVITIES TO EQUAL OR BETTER THAN PRE-CONSTRUCTION TIONAL COST TO THE OWNER.
- USE APPROPRIATE TECHNIQUES, AS APPROVED, RECOMMENDED OR OFFERED BY GHT TO PREVENT UNDERMINING OF POWER POLES DURING CONSTRUCTION. IF HOLDING OF MENDED OR REQUIRED BY THE UTILITY, THE CONTRACTOR SHALL COORDINATE THIS TY AND BEAR ALL RELATED COSTS.
- OWNS FOR MODIFICATIONS OF EXISTING UTILITY SYSTEMS THAT MUST REMAIN IN SERVICE SHALL BE KEPT TO A MINIMUM AND SHALL BE COORDINATED WITH AND APPROVED BY JTILITY OPERATIONS DEPARTMENT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. 17 ARY SHUTDOWNS MAY BE RESTRICTED TO CERTAIN HOURS AT ANY TIME OF THE DAY COMPLETED AT NO ADDITIONAL COST TO THE OWNER.
- UTILITY SERVICES AND LATERALS HAVE BEEN ASSUMED ON THE BASIS OF TYPICAL RAGE. CONTRACTOR SHALL NOT RELY ON THIS INFORMATION FOR CONSTRUCTION, BUT FOR FIELD LOCATIONS (HORIZONTAL AND VERTICAL) OF ALL UTILITIES CROSSING THE CONTRACTOR SHALL INCLUDE IN THE UNIT COST OF THE SUBJECT FORCE MAIN T OF UTILITY ADJUSTMENTS NECESSARY TO ATTAIN DESIGN MINIMUM SEPARATION FOR ITH THE CONSTRUCTION OF THE PROPOSED FORCE MAIN. INTERRUPTIONS OF ANY ES SHALL BE NOTICED TO EFFECTED CUSTOMERS A MINIMUM OF 48 HOURS IN ADVANCE 4 HOURS IN DURATION.
- PERFORMED THROUGHOUT THE PROJECT SHALL CONFORM TO EXISTING LINES AND OTHERWISE
- AREAS SHALL BE SODDED UNLESS OTHERWISE INDICATED. THE TYPE OF SOD USED TO NNED AREAS IN RIGHT-OF-WAY SHALL BE COORDINATED WITH THE PROPERTY OWNER.
- BLOCKS INSTALLED FOR TESTING PURPOSES AND NOT REQUIRED FOR THE OPERATION BE REMOVED AND DISPOSED OF BY THE CONTRACTOR, PRIOR TO FINAL ACCEPTANCE, TO THE OWNER.
- ARE CUT SHALL BE RESTORED PER SECTION 02513.
- R SIDEWALKS THAT ARE CUT SHALL BE RESTORED TO MATCH EXISTING ACCORDING TO OF THE F.D.O.T. STANDARD PLANS FOR ROAD CONSTRUCTION CONCRETE SIDEWALK 522-001 THROUGH 522-003.
- ROADWAY SURFACE IS NOT REPLACED IMMEDIATELY AFTER BACKFILLING AND EWLY INSTALLED PIPE LINE IN AREAS WHERE TRAFFIC MUST PASS, THE CONTRACTOR DRARY SURFACE CONSISTING OF NINE INCHES OF COMPACTED LIME ROCK BASE AND A SION. PERMANENT ROADWAY REPAIR SHALL BE PERFORMED A MAXIMUM OF DAYS AFTER THE INITIAL OPEN CUTTING.
- DRIVEWAYS, SIDEWALKS, AND PLACEMENT OF SOD SHALL BE COMPLETED AS SOON AS COMPLETED WORK IN THE AREA OF IMPACT. RESTORATION SHALL BE COMPLETED NO ROM COMPLETION OF CONSTRUCTION IN THE AREA OF IMPACT.
- STURBED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED AND REINSTALLED NO ADDITIONAL COST TO THE OWNER UNLESS SHOWN TO BE REMOVED ON
- IRS ARE NECESSARY AND EXPANSION OR CONTRACTION JOINTS ARE PRESENT. MOVE AND REPLACE CONCRETE UP TO THE NEXT EXPANSION OR CONTRACTION JOINT. ONCRETE REPAIRS SHALL BE REPLACED AT A MINIMUM OF TEN (10) FEET IN LENGTH.
- F ALL GASOLINE AND DIESEL ENGINES SHALL BE EQUIPPED WITH MUFFLERS THAT MEET CTURER'S REQUIREMENTS FOR NOISE SUPPRESSION. THE CONTRACTOR SHALL INSTALL LES POSITIONED TO BREAK LINE-OF-SITE FROM THE NOISE SOURCE TO AFFECTED VED BY THE ENGINEER.
- STOCKPILED IN ROADWAYS. ALL DIRT AND DEBRIS SHALL BE REMOVED FROM THE JOB L BE SWEPT DAILY AS PART OF DAILY CLEAN UP.
- CONTROL ALL FUGITIVE DUST ORIGINATING ON THIS PROJECT BY WATERING OR OTHER
- ALL THE PROPERTIES IN THE CONSTRUCTION AREA SHALL BE MAINTAINED AT ALL

- 58. PRIOR APPROVAL WILL BE REQUIRED FOR REMOVAL OR TRIMMING OF ANY TREE WITHIN THE CONSTRUCTION ARFA.
- 59. THE CONTRACTOR SHALL PROVIDE ALL DEWATERING EQUIPMENT NECESSARY TO KEEP ALL EXCAVATIONS DF DEWATERING IS REQUIRED TO 18" BELOW TRENCH BOTTOM.
- 60. ALL PIPING AND FITTINGS USED ON THIS PROJECT SHALL BE AS NOTED ON THE PLANS AND IN THE CONT DOCUMENT AND SHALL BE INSTALLED TO THE LINES AND GRADES SHOWN ON THE PLANS AND PROFILES.
- 61. ALL PIPE SHALL BE COLOR CODED TO CONFORM TO MANATEE COUNTY STANDARDS.
- 62. ALL FITTINGS FOR PRESSURE CLASS-RATED PIPE SHALL BE RESTRAINED DUCTILE IRON. ALL FITTINGS AND JOINTS SHALL BE FULLY RESTRAINED.
- 63. WHERE IT IS NECESSARY TO DEFLECT PIPE EITHER HORIZONTALLY OR VERTICALLY, PIPE DEFLECTION SHALL EXCEED 75% OF THE MANUFACTURER'S MAXIMUM ALLOWABLE RECOMMENDED DEFLECTION.
- 64. ALL ROCKS OR STONES LARGER THAN SIX INCH DIAMETER SHALL BE REMOVED FROM THE BACKFILL MATER BACKFILL MATERIAL PLACED WITHIN ONE FOOT OF PIPING AND APPURTENANCES SHALL NOT CONTAIN ANY STONES LARGER THAN TWO INCH DIAMETER.
- 65. ONLY MANATEE COUNTY UTILITY OPERATIONS STAFF ARE AUTHORIZED TO OPERATE VALVES AND PUMP STATIONS ON COUNTY OWNED AND MAINTAINED UTILITY SYSTEMS.
- 66. ALL TEST POINT PIPING SHALL BE CUT LOOSE FROM THE CORPORATION STOP AND COMPLETELY REMOVED DISPOSED OF BY THE CONTRACTOR PRIOR TO FINAL ACCEPTANCE. A CORPORATION STOP PLUG SHALL BE INSTALLED AND THE CORPORATION STOP SHALL REMAIN IN PLACE.
- 67. ALL EXISTING MAINS THAT ARE BEING REPLACED SHALL BE ABANDONED IN PLACE UPON ACCEPTANCE AND ACTIVATION OF THE NEW MAINS. ABANDONED MAINS SHALL BE CUT AND CAPPED. REFER TO SECTION 020 THE SPECIFICATIONS FOR CUT AND CAPPING ABANDONED PIPE.
- 68. FIELD CONDITIONS MAY NECESSITATE MINOR ALIGNMENT AND GRADE DEVIATION OF THE PROPOSED UTILITIES AVOID OBSTACLES, AS ORDERED BY THE ENGINEER.
- 69. THE CONTRACTOR SHALL OBTAIN AUTHORIZATION FROM THE MANATEE COUNTY UTILITIES DEPARTMENT (MI WASTEWATER COMPLIANCE DIVISION PRIOR TO DEWATERING. COMPLETION OF A CONSTRUCTION DEWATERING AUTHORIZATION TO DISCHARGE APPLICATION IS REQUIRED. FILL OUT FORM AS COMPLETELY AS POSSIBLE MISSING INFORMATION DELAYS THE APPROVAL PROCESS.
- 70. THE MCUD WASTEWATER COMPLIANCE DIVISION WILL DETERMINE WHETHER A LETTER OF APPROVAL, A DISCHARGE AUTHORIZATION, OR A DISCHARGE PERMIT IS REQUIRED.
- 71. FOR SITES SUSPECTED OF CONTAMINATED GROUNDWATER MANATEF COUNTY WILL REQUIRE AN APPLICANT DEMONSTRATE THAT THE DISCHARGE MEETS THE MANATEE COUNTY SEWER USE ORDINANCE.
- 72. CONTRACTOR SHALL REPLACE ANY DAMAGED VALVE BOXES AND ADJUST THE BOX TO THE FINISHER GRADE. 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 OF THE ROADWAY PER MANATEE COUNTY'S STANDARDS. SERVICES SHALL BE REPLACED FROM THE CORP STOP TO THE METER.
- TRAFFIC CONTROL NOTES
- 73. TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH F.D.O.T. LATEST DESIGN STANDARDS NO. 102-600, 102-601, 102-602 AND 102-660 DEPENDING ON THE OPERATION BEING PERFORMED.
- FOR ALL TWO-LANE WORK, TWO-WAY, WORK OUTSIDE OF SHOULDER UTILIZE INDEX 102-601. FOR ALL TWO-LANE WORK, TWO-WAY, WORK ON SHOULDER UTILIZE INDEX 102-602. FOR PEDESTRIAN CONTROL FOR CLOSURE OF SIDEWALK, UTILIZE INDEX 102-660.
- 74. CONTRACTOR TO COORDINATE WITH FDOT FOR ALL WORK DONE ON A STATE FACILITY.
- 75. PEDESTRIANS, BICYCLES, AND WHEELCHAIRS: AT THE END OF EACH WORKDAY OR WHENEVER THE WORK ZONE BECOMES INACTIVE, ANY DROP-OFF ADJAC SIDEWALK SHALL BE BACKFILLED AT A SLOPE NOT TO EXCEED 1:4, OR SHALL BE PROTECTED IN ACCORDAN DESIGN STANDARD 102-600.
- 76. THE CONTRACTOR IS RESPONSIBLE TO RETIME THE TRAFFIC SIGNALS WITHIN THE PROJECT LIMITS (INCLUDING LIMITS OF WORK ZONE TRAFFIC CONTROL) THAT ARE POTENTIALLY AFFECTED DURING VARIOUS PHASES OF CONSTRUCTION. COORDINATE ALL SIGNAL RETIME EFFORTS MUKUNDA GOPALAKRISHNA, P.E., PTOE, COUNTY TRAFFIC ENGINEER, AT 941-749-3500, EXT. 7813.
- 77. CONTRACTOR TO MAINTAIN VEHICLE DETECTION IN OPERATION FOR LANES THAT WILL REMAIN OPEN. CONTRACTOR TO COORDINATE ALL VEHICLE DETECTION ISSUES WITH AARON BURKETT OF MANATEE COUNTY AT 941-708-7509, OR AARON.BURKETT@MYMANATEE.ORG
- 78. MAINTENANCE OF TRAFFIC AND ANY SIGNAL RETIMING WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 79. ANY SIGNAL RETIMING REQUIRED FOR THE INTERSECTIONS IMPACTED BY THE PROJECT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. SIGNAL TIMING MODIFICATIONS TO BE SUBMITTED TO MANATEE COUNTY TRAFFIC DESIGN, ATTENTION MR. MUKUNDA GOPALAKRISHNA FOR REVIEW AND APPROVAL AT LEAST 15 WORKING DAYS BEFORE PROPOSED CHANGES. THIS DOES NOT GOVERN EMERGENCY SITUATIONS, PENDING THE APPROVAL OF THE ENGINEER.
- 80. A DETAILED MAINTENANCE OF TRAFFIC PLANS ARE TO BE SUBMITTED TO MANATEE COUNTY AND THE ENGINEER, BY THE CONTRACTOR, FOR REVIEW AND APPROVAL A MINIMUM OF 21 WORKING DAYS PRIOR TO PROPOSED IMPLEMENTATION.
- 81. THE CONTRACTOR SHALL MAINTAIN TEMPORARY VEHICLE DETECTION ON ALL APPROACHES THROUGHOUT CONSTRUCTION UNTIL MANATEE COUNTY ACCEPTS THE PROJECT. ANY DAMAGE TO THE EXISTING DETECTION SYSTEM AT AN INTERSECTION MUST BE RESTORED WITHIN TWENTY-FOUR (24) HOURS AT NO ADDITIONAL COST TO THE COUNTY. MANATEE COUNTY TRAFFIC OPERATIONS DIVISION WILL ASSIST AS NEEDED WHENEVER POSSIBLE.
- 82. THE PRIME CONTRACTOR SHALL BE RESPONSIBLE FOR THE SIGNAL MAINTENANCE, TIMING AND OPERATION OF ANY AND ALL SIGNALS AND SIGNAGE FROM THE COMMENCEMENT TO THE ACCEPTANCE OF THE PROJECT (I.E.: EXISTING LOOPS CUT, SYSTEM COMMUNICATION TERMINATED, LANE OR PAVEMENT MODIFICATIONS, PEDESTRIAN MODIFICATIONS, TRAFFIC SIGNAL SCHOOL FLASHER, WARNING FLASHER, ROADWAY LIGHTING, COUNT STATIONS, AND ANY OTHER TRAFFIC RELATED DEVICE LOCATED WITHIN THE CONSTRUCTION ZONE). MANATEE COUNTY WILL ASSIST IN PROVIDING EXISTING SYSTEM TIMES WHEN POSSIBLE.

#### <u>SURVEY</u>

- 83. HORIZONTAL VALUES (NORTHING/EASTING) ARE RELATIVE TO THE STATE PLANE COORDINATE SYSTEM, FLORIDA WEST ZONE, NORTH AMERICAN DATUM OF 1983-1990 ADJUSTMENT (NAD 1983-1990) AND WERE ESTABLISHED BY GLOBAL POSITIONING SYSTEM (GPS) SURVEY.
- 84. VERTICAL VALUES, ELEVATIONS ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88). FDOT NOTES
- ALL WORK PERFORMED WITHIN THE FDOT R/W SHALL CONFORM TO:
- 85. FDOT STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, 2020-2021.
- 86. FDOT STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION, 2020-2021, COMPLIANCE WITH ALL APPLICABLE INDICES IS REQUIRED.
- 87. FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY PLANS PREPARATION MANUAL, VOLUME 1, CHAPTERS 2 AND 25. (REVISED 2017).
- 88. FLORIDA DEPARTMENT OF TRANSPORTATION FLEXIBLE PAVEMENT DESIGN MANUAL FOR NEW CONSTRUCTION AND PAVEMENT REHABILITATION, JANUARY 2020. 89. 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".
- 90. LANE CLOSURE MAY NEED TO BE ALTERED DEPENDING ON THE AREA THE WORK IS TAKING PLACE.



DRY.	ABBREVIATIONS		SURVEY LEGEND	
NTRACT D PIPE LL NOT ERIAL. Y	ARV – AIR RELEASE VALVE BT – BURIED TELEPHONE DIP – DUCTILE IRON PIPE EX. – EXISTING FM – FORCE MAIN LF – LINEAR FEET PVC – POLYVINYL CHLORIDE RJ – RESTRAINED JOINT R/W – RIGHT-OF-WAY RCP – REINFORCED CONCRETE F RCW – RECLAIMED WATER MAIN SS – SANITARY SEWER	PIPE	<ul> <li>IRON ROD W/ CAP</li> <li>PK NAIL W/ DISC</li> <li>CONCRETE MONUMENT</li> <li>R/W RIGHT-OF WAY</li> <li>PID PARCEL IDENTIFICATION</li> <li>PB PLAT BOOK</li> <li>ORB OFFICIAL RECORD BOOK</li> <li>PG PAGE</li> <li>BM SITE CONTROL POINT</li> <li>P/O PORTION OF</li> <li>TREES</li> </ul>	<ul> <li>SITE BENCHMARK</li> <li>SIGN</li> <li>UTILITY POLE</li> <li>GUY WIRE</li> <li>WATER METER</li> <li>SANITARY MANHOLE</li> <li>STORM MANHOLE</li> <li>MAILBOX</li> <li>LIGHT POLE</li> <li>FIRE HYDRANT</li> <li>BACKFLOW PREVENTER</li> </ul>
D AND	EX. RECLAIM WATER -	X	RCW — X RCW —	—X RCW———
E	EX. FORCE MAIN -	——X—FM —	X_FMX_FM	IX-FM
ND 2064 OF	EX. POTABLE WATER -	X	WTX WT	—X WT ———
IES TO	EX. SANITARY SEWER -	X SS-	———x ss———x ss	X ss
MCUD) IG AS	EX. STORM			
	EX. BURIED TELEPHONE/FIBER -	— Х ВТ-	Х ВТХ ВТ	Х ВТ
г то	EX. BURIED ELECTRIC	— Х ВЕ -	——————————————————————————————————————	Х ВЕ
	EX. GAS –		X-GASX-(	GAS

#### SUE TABLE

\_\_\_\_X OE \_\_\_\_\_X OE \_\_\_\_\_X OE \_\_\_\_\_X OE \_\_\_\_\_

	<u>VVH #</u>	DEPTH	DESCRIPTION
	139	2.20'	2" PVC BE X 2 (MANATEE CO)
	140	5.09'	NFV SIZE DIP WM (MANATEE CO)
	141	4.80'	4" PVC BT X 4 (VERIZON)
	142	4.55'	12" PVC FM (MANATEE CO)
	143	1.98'	1" DIRECT BURIED BT (VERIZON)
	144	1.20'	2" + 1 - 1/2" PVC RCW (MANATEE CO)
ACENT TO A ANCE WITH	145	1.01'	1" PVC RCW X 3
	146	7.34'	NFV
	147	7.25'	NFV
1G	148	2.23'	2" PVC TRAFFIC SIGNAL (MANATEE CO)
	149	2.30'	2" PVC BE (MANATEE CO)

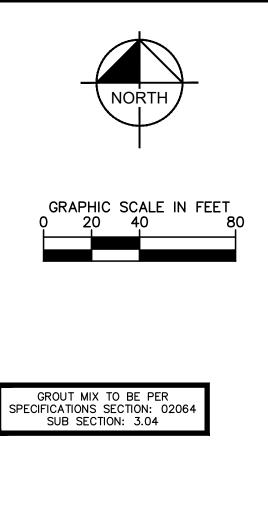
EX. OVERHEAD ELECTRIC

SHEET NUMBER

### GENERAL NOTES







#### LEGEND

SIDEWALK/CONCRETE DRIVEWAY RESTORATION



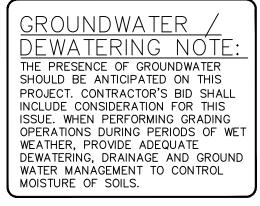
GENERAL NOTES:

- 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). CONTRACTOR TO MAINTAIN MINIMUM CLEARANCES PER FDEP F.A.C. RULE
- 3.
- CLEARANCES PER FDEP F.A.C. RULE 62–55.314. CONTRACTOR TO VERIFY EXISTING FIELD CONDITIONS BEFORE THE BEGINNING ANY CONSTRUCTION ACTIVITIES CONTRACTOR TO REMOVE ANY UNSUITABLE FILL MATERIALS AND BACKFILL WITH APPROVED MATERIAL PER MANATEE COUNTY SPECIFICATIONS 4.
- APPROVED MATERIAL PER MANATEE COUNTY SPECIFICATIONS. ONLY MANATEE COUNTY UTILITY OPERATIONS STAFF ARE AUTHORIZED TO OPERATE VALVES AND PUMP STATIONS ON COUNTY OWNED AND MAINTAINED UTILITY SYSTEMS

#### \*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 SEWER MAIN. CONTRACTOR SHALL INCLUDE IN THE UNIT COST OF THE SUBJECT GRAVITY SEWER CONSTRUCTION, THE COST OF UTILITY ADJUSTMENTS NECESSARY TO ATTAIN DESIGN MINIMUM SEPARATION FOR UTILITIES CONFLICTING WITH THE CONSTRUCTION OF THE PROPOSED SANITARY SEWER. 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.

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.

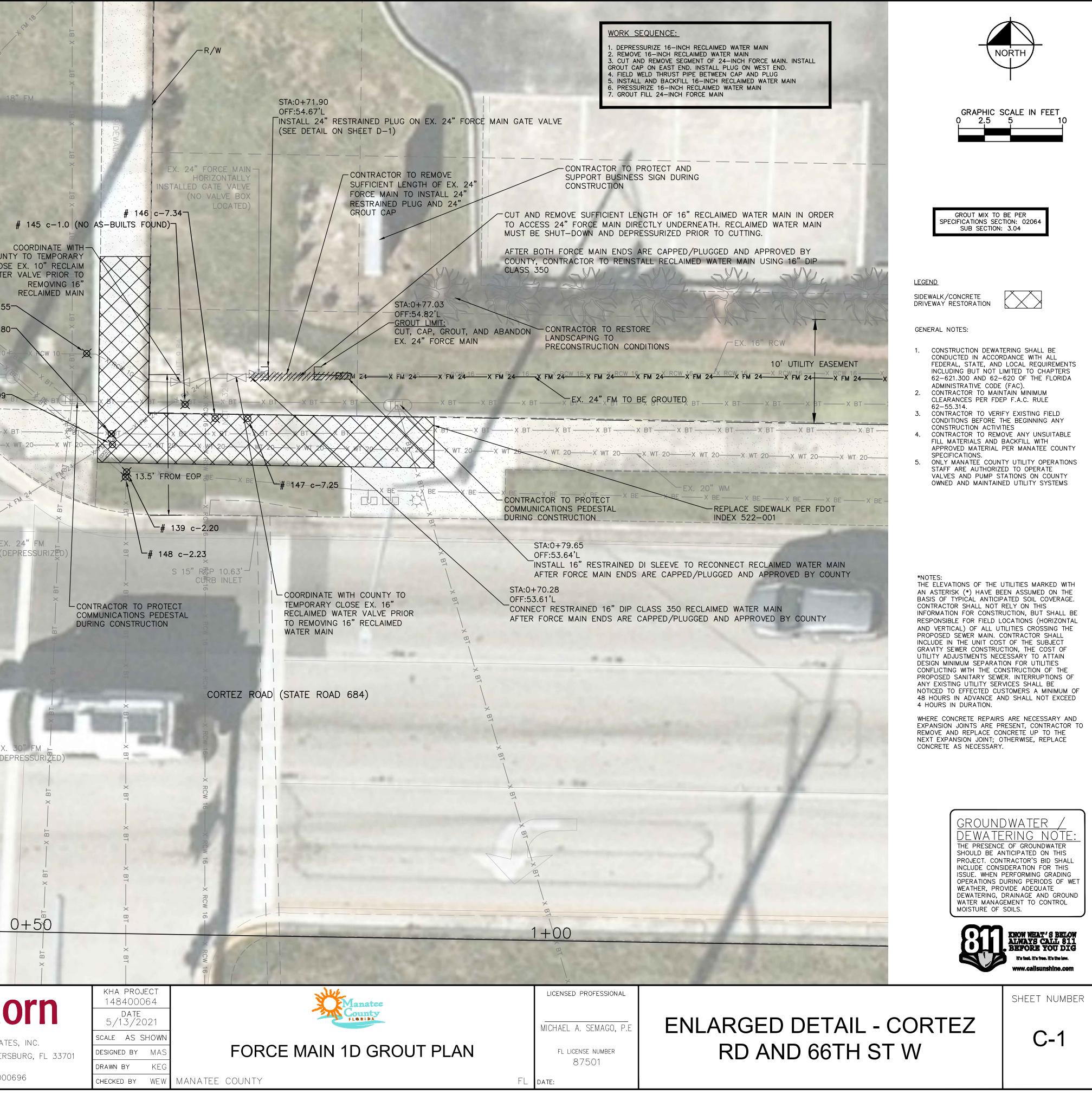




#### SHEET NUMBER



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· the specific	BT ————————————————————————————————————			8	EX. 18" FM IN 36" STEEL CASING	
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	Г <u> </u>			FM 18 X F	X FM 30	
the concepts and designs presented herein.	X BT			FM 18	X FM 30	
together with the c	-× BT 00			FM 18 X	W M X	
This document, t	BT			M 18	FM 30	
					Kimley»H	
No.	F	EVISIONS	DATE	BY	© 2020 KIMLEY-HORN AND ASSOC 100 2ND AVENUE SOUTH, SUITE 105N, ST. PET PHONE: 727-547-3999 WWW.KIMLEY-HORN.COM CA 00	TEF



	X IB X X II 2 X WI 12 -		
Initial document, together with the concepts       Initial document, together with the concepts	<b>EXAMPLE 1</b> <b>B</b> <b>B</b> <b>C</b> <b>C</b> <b>C</b> <b>C</b> <b>C</b> <b>C</b> <b>C</b> <b>C</b>	KHA PROJECT         148400064         DATE         5/13/2021         SCALE       AS SHOWN         DESIGNED BY       MAS         DRAWN BY       KEG	MICHAEL A. SEMAGO, P.E FL LICENSE NUMBER 87501
No. REVISIONS DATE BY		CHECKED BY WEW MANATEE COUNTY	FL date:



### <u>Port photo detail</u>

#### GROUT MIX TO BE PER SPECIFICATIONS SECTION: 02064 SUB SECTION: 3.04

#### LEGEND

SIDEWALK/CONCRETE DRIVEWAY RESTORATION



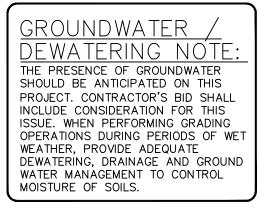
GENERAL NOTES:

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- 2. CONTRACTOR TO MAINTAIN MINIMUM CLEARANCES PER FDEP F.A.C. RULE 62-55.314.
- 3. CONTRACTOR TO VERIFY EXISTING FIELD CONDITIONS BEFORE THE BEGINNING ANY CONSTRUCTION ACTIVITIES
   4. CONTRACTOR TO REMOVE ANY UNSULTABLE
- 4. CONTRACTOR TO REMOVE ANY UNSUITABLE FILL MATERIALS AND BACKFILL WITH APPROVED MATERIAL PER MANATEE COUNTY SPECIFICATIONS.
- 5. ONLY MANATEE COUNTY UTILITY OPERATIONS STAFF ARE AUTHORIZED TO OPERATE VALVES AND PUMP STATIONS ON COUNTY OWNED AND MAINTAINED UTILITY SYSTEMS

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SHEET NUMBER

**C-2** 

## ENLARGED DETAIL - 63TH ST W

tes, Inc.			
REQUIRED LENGTH OF RESTRAINED JOINT PIPE FOR DIP (POLY-WRAPPED)	NOTES: 1. USE OF TYPE A-2 AND A-3 PIPE BEDDING TO BE DETERMINED IN THE FIELD BY THE ENGINEER. 2. PROVIDE ADEQUATE CLEARANCE TO PLACE AND COMPACT STAGE 1 BEDDING MATERIAL IN TRENCH AREA BELOW PIPE SPRINGLINE. PIPE EMBEDMENT MUST BE COMPACTED OUT TO		NOTES:
MAIN PIPE SIZE         HORIZ. BENDS         TEES         REDUCERS         PLUGS & VALVES           36         142         59         28         x36 393         x30 318         x24 222         x20 165         x16 84         x12 1         x30 137         x24 247         x20 309         x16 359         453           30         124         51         25         x30 303         x24 200         x16 21         x10 23         x10 1         x24 106         x16 44         x24 21         x24 200         x16 21         x10 23         x16 23         x16 23         x16 23         x16 23         x16 23         x16 23         x16 23         x16 24         x12 276         391           24         106         44         21         x24 270         x21 21         x16 23         x10 23         x8 23         x16 23         x16 23         x16 23         x12 27         x10 27         x80           20         92         38         18         x20 225         x16 21         x10 27         x8 28         x16 227         280           16         77         32         15         x16 177         x12 27         x8 39         x6 1         x10 298         x8 231         x8 231         x8 231           <		<ol> <li>PROVIDE ADEQUATE CLEARANCE TO PLACE AND COMPACT STAGE 1 BEDDING MATERIAL IN TRENCH AREA BELOW PIPE SPRINGLINE. PIPE EMBEDMENT MUST BE COMPACTED OUT TO THE TRENCH WALL OR 2.5 TIMES THE PIPE OD, WHICHEVER IS LESS.</li> <li>PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.</li> <li>TRACER WIRE NOT REQUIRED FOR GRAVITY SEWERS.</li> </ol>	<ol> <li>PROVIDE ADEQUATE CLEARANCE TO PLACE AND COMPACT STAGE 1 TRENCH AREA BELOW PIPE SPRINGLINE. PIPE EMBEDMENT MUST THE TRENCH WALL OR 2.5 TIMES THE PIPE OD, WHICHEVER IS LE</li> <li>PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURE</li> <li>TRACER WIRE NOT REQUIRED FOR GRAVITY SEWERS.</li> </ol>
NOTE:         NOTE:           1.         SEE UG-8, RESTRAINED LENGTHS FOR PVC PIPE DETAIL FOR NOTES 1 THROUGH 9 THAT ARE ALSO APPLICABLE TO RESTRAINED LENGTHS FOR DIP.	6" ELECTRICALLY DETECTABLE PATH MARKING TAPE BETWEEN SURFACE OVER PIPE. TAPE SHALL BE MARKED "WATER", "SEWER" OR "RECLAIMED" COMMON FILL PIPE BEDDING ENVELOPE (SEE NOTE 1) #10 COPPER CLAD STEEL WIRE CONTINUOUS (SEE NOTE 4)	6" ELECTRICALLY DETECTABLE PATH MARKING TAPE BETWEEN 12" (2 24" BELOW FINISH SURFACE OVER PIPE: TAPE SHALL MARKED "WATER", "SEWER" OR "RECLAIMED" (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	COMMON FILL (SELECTED COMMON FILL IF UNDER PAVEMENT) SELECTED COMMON FILL WIRE CONTINUOUS (SEE NOTE 3) BEDDING MATERIAL (SEE SPECIFICATIONS) 6" MIN. BEDDING BACKFILLED W/ SELECTED COMMON FILL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
ALSO APPLICABLE TO RESTRAINED LENGTHS FOR DIP. MANATEE COUNTY PUBLIC WORKS DEPARTMENT REV.BY DATE February 25, 2020 DATE OF APPROVAL UG-9	MANATEE COUNTY       TRENCH WITH         PUBLIC WORKS DEPARTMENT       TRENCH WITH         REV.BY       DATE         TODATE       TYPE A-1 PIPE BEDDING         DATE OF APPROVAL       UG-1	MANATEE COUNTY       PUBLIC WORKS DEPARTMENT       REV.BY       DATE       February 25, 2020       DATE OF APPROVAL         TRENCH WITH TYPE       A-2 PIPE BEDDING   UG-15	MANATEE COUNTY         PUBLIC WORKS DEPARTMENT       TRENCH WITH         REV.BY       DATE       A-3 PIPE BI         DATE       DATE OF APPROVAL
Nuly for the specific purpose and client for which it was prepared.	FM TO REMAIN ACTIVE FM TO REMAIN ACTIVE EX. 24" HORIZONTALLY INSTALLED GATE VALVE INSTALL 24" DI RESTRAINED PLUG INSTALL 24" DI GROUT CAP WITH 2" THREADED PORT FOR GROUT HOSE ON TOP QUADRANT OF CAP	20' OR LESS AT MATURITY	
resented herein, as an instrument of service, is intended or	Image: Constraint of the second se	ROOT BARRIER (SEE NOTES BELOW)	R(1) R
1. RE DU 2. DE LIF LIF	DTE: CONTRACTOR SHALL FOLLOW RECOMMENDATIONS OF DUCTILE IRON PIPE ESEARCH ASSOCIATION "GUIDELINES OF FIELD WELDING AND CUTTING JCTILE IRON PIPE" EXISTING 24" FORCE MAIN TO REMAIN ACTIVE IS CURRENTLY EPRESSURIZED. CONTRACTOR IS NOT ANTICIPATED TO REQUIRE BYPASSING FT STATION TO PERFORM THE WORK. UST RESTRAINT WELDED PIPE CONNECTION PROFILE VIEN LE: $1/4$ " = 1'-0"	NOTES:         1. THIS DISTANCE SHALL BE 7' MINIMUM WITH ROOT BARRIER AND 10' MINIMUM IF NO ROOT BARRIER IS USED         2. ALL ROOT BARRIERS SHALL BE 4' MINIMUM FROM ALL MAINS AND SERVICES.         3. THE INSTALLATION OF ROOT BARRIERS SHALL BE COORDINATED WITH MANATEE COUNTY AND INSPECTED BY MANATEE COUNTY PRIOR TO BACKFILLING. ALL ROOT BARRIERS SHALL EXTEND UP TO FINISHED GRADE         4. ROOT BARRIERS SHALL BE A FLEXIBLE PANEL BARRIER, A MINIMUM 36" DEEP.         5. ALL ROOT BARRIERS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURES WRITTEN INSTRUCTIONS.         M       MANATEE COUNTY PUBLIC WORKS DEPARTMENT         REV.BY       DATE         H       February 25, 2020         DATE OF APPROVAL       TYP. BARRIER	NOTES:         1. THIS DISTANCE SHALL BE 10' MINIMUM WITH ROOT BARRIER AND 15' MI         2. ALL ROOT BARRIERS SHALL BE 4' MINIMUM FROM ALL MAINS AND SERV         3. THE INSTALLATION OF ROOT BARRIERS SHALL BE COORDINATED WITH MA         MANATEE COUNTY PRIOR TO BACKFILLING. ALL ROOT BARRIERS SHALL EX         4. ROOT BARRIERS SHALL BE MINIMUM 36" DEEP. FLEXIBLE BARRIERS SHALL EX         5. ALL ROOT BARRIERS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFA         6. LARGE PALM TREES INCLUDE ROYAL, WASHINGTONIAN, BISMARK AND SIMI         MANATEE COUNTY         PUBLIC WORKS DEPARTMENT         MANATEE COUNTY         PUBLIC WORKS DEPARTMENT         TYP. CANOPY         LARGE PALM         REVENUE         MANATEE COUNTY         PUBLIC WORKS DEPARTMENT         TYP. CANOPY         LARGE PALM         REVENUE         MANATEE COUNTY         PUBLIC WORKS DEPARTMENT         TYP. CANOPY         LARGE PALM         Exotic TREE         MANOTE OF APPROVAL
	100 2ND AVENUE SOUTH, SUITE 105N, ST. PETERSBURG, FL 33701	KHA PROJECT 148400064 DATE 5/18/2021 SCALE AS SHOWN DESIGNED BY MAS DRAWN BY KEG	LICENSED PROFESSIONAL MICHAEL A. SEMAGO, P.E FL LICENSE NUMBER 87501
No.     REVISIONS     DATE		CHECKED BY WEW MANATEE COUNTY	FL date:

