

GENERAL NOTES:

- ALL WORK AND MATERIALS SHALL BE IN COMPLETE ACCORDANCE WITH ALL RELATIVE SECTIONS OF CITY OF JACKSONVILLE STANDARDS (LATEST REVISION) AND ALL CURRENT CITY STANDARD DETAILS. THE WORK SHALL ALSO BE PERFORMED AND TESTED IN ACCORDANCE WITH THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL INVESTIGATION REPORT PROVIDED BY THE OWNER IF MORE STRINGENT THAN CITY OF JACKSONVILLE REQUIREMENTS.
- ALL WORK SHALL BE PERFORMED IN A SAFE MANNER. ALL SAFETY RULES AND GUIDELINES OF O.S.H.A. SHALL BE FOLLOWED. THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR ANY INJURIES OF HIS EMPLOYEES, AND ANY DAMAGE TO PRIVATE PROPERTY OR PERSONS DURING THE COURSE OF THIS PROJECT. ALL COSTS ASSOCIATED WITH COMPLYING WITH O.S.H.A. REGULATIONS AND THE FLORIDA TRENCH SAFETY ACT MUST BE INCLUDED IN THE CONTRACTORS BID.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE JOB SITE PRIOR TO PREPARING THE BID FOR THE PURPOSE OF FAMILIARIZING HIMSELF WITH THE NATURE AND THE EXTENT OF THE WORK AND LOCAL CONDITIONS, EITHER SURFACE OR SUB-SURFACE, WHICH MAY AFFECT THE WORK TO BE PERFORMED, AND THE EQUIPMENT, LABOR AND MATERIALS REQUIRED. FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR OF COMPLETE PERFORMANCE UNDER THIS CONTRACT. THE CONTRACTOR IS ALSO URGED TO TAKE COLOR PHOTOGRAPHS ALONG THE ROUTE OF THE PROJECT TO RECORD EXISTING CONDITIONS PRIOR TO CONSTRUCTION, AND TO AID IN RESOLVING POSSIBLE FUTURE COMPLAINTS THAT MAY OCCUR DUE TO THE CONSTRUCTION OF THE PROJECT.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO EITHER CONDUCT ANY FIELD EXPLORATION OR ACQUIRE ANY GEOTECHNICAL ASSISTANCE REQUIRED TO ESTIMATE THE AMOUNT OF UNSUITABLE MATERIAL THAT WILL REQUIRE REMOVAL AND/OR TO ESTIMATE THE AMOUNT OF OFF SITE BORROW THAT WILL BE REQUIRED.
- ALL IMPROVEMENTS SHOWN ARE TO BE WARRANTED BY THE CONTRACTOR TO THE DEVELOPER AND CITY OF JACKSONVILLE FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE BY THE OWNER AND CITY OF JACKSONVILLE.
- ELEVATIONS ARE BASED ON NATIONAL NORTH AMERICAN VERTICAL DATUM OF 1988 (N.A.V.D.), AS DETERMINED BY RICHARD P. CLARSON AND ASSOCIATES., INC., PROJECT NO. 20-105, DATED DECEMBER 22, 2020.
- FOR BOUNDARY INFORMATION, SEE SURVEY PREPARED BY RICHARD P. CLARSON AND ASSOCIATES., INC., PROJECT NO. 20-105, DATED DECEMBER 22, 2020.
- THE CONTRACTOR WILL CONTRACT WITH AN INDEPENDENT TESTING LABORATORY TO PERFORM MATERIAL TESTING AND SOIL TESTING IN ACCORDANCE WITH CITY OF JACKSONVILLE REQUIREMENTS. THIS SHALL INCLUDE DENSITY TESTS IN ALL PAVEMENT AREAS AND IN ALL UTILITY TRENCHES LOCATED IN PAVEMENT AREAS CONCRETE TESTING AND ALL OTHER MATERIAL TESTING. PRIOR TO LIMEROCK PLACEMENT, THE PROJECT GEOTECHNICAL ENGINEER SHALL MAKE RECOMMENDATION FOR UNDERDRAIN PLACEMENT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND INSURANCE REQUIRED FOR THE PROJECT INCLUDING CITY OF JACKSONVILLE RIGHT-OF-WAY PERMITS FOR WORK IN THE CITY OF JACKSONVILLE RIGHT-OF-WAY OR EASEMENT.
- THE CONTRACTOR SHALL COORDINATE THE WORK WITHIN CITY OF JACKSONVILLE OR STATE RIGHT-OF-WAY WITH THE PROPER AGENCIES FOR MAINTENANCE OF TRAFFIC AND METHOD OF CONSTRUCTION AND REPAIR.
- ALL PUBLIC DRAINAGE EASEMENTS SHALL BE "UNOBSTRUCTED" EASEMENTS. ALL "UNOBSTRUCTED" EASEMENTS TO BE CLEAR AND DRIVEABLE.
- "AS-BUILT" DRAWINGS - AS-BUILTS TO THE CITY OF JACKSONVILLE AND THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT ARE REQUIRED TO BE SIGNED AND SEALED BY A FLORIDA REGISTERED LAND SURVEYOR THEREFORE, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTRACT WITH A LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA FOR THE PREPARATION, FIELD LOCATIONS, CERTIFICATION AND SUBMITTAL OF "AS-BUILT" DRAWINGS IN ACCORDANCE WITH CURRENT CITY STANDARDS AND SPECIFICATIONS AND SJRWMD REGULATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROCESS THE "AS-BUILT" DRAWINGS FOR APPROVAL BY CITY OF JACKSONVILLE. SUBMITTAL OF AS-BUILT SITE SURVEY, INCLUDING BENCHMARKS, IS REQUIRED PRIOR TO SCHEDULING A FINAL INSPECTION OF THE BUILDING BY THE BUILDING DEPARTMENT OR THE FIRE MARSHALL.
- THE CONTRACTOR SHALL COORDINATE THEIR CONSTRUCTION WITH ALL OTHER CONTRACTORS. IN THE EVENT OF ANY CONFLICT WHATSOEVER, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND OWNER PRIOR TO PROCEEDING WITH CONSTRUCTION.
- ALL CLEARING AND GRUBBING REQUIRED FOR ALL ROADWAY, UTILITIES, DITCHES, AND BERMS INCLUDED IN THIS PROJECT AND THE CLEARING AND GRUBBING OF ALL RIGHT-OF-WAY OR EASEMENTS SHALL BE CONSIDERED AS PART OF THE PROJECT.
- ALL AREAS SHOWN TO BE FILLED SHALL BE CLEARED AND GRUBBED IN ACCORDANCE WITH CITY OF JACKSONVILLE STANDARDS AND SHALL BE FILLED WITH CLEAN STRUCTURAL FILL, COMPACTED AND TESTED IN ACCORDANCE WITH THE GEOTECHNICAL INVESTIGATION REPORT.
- CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL SURVEY AND PROPERTY MONUMENTS. IF A MONUMENT IS DISTURBED, THE CONTRACTOR SHALL CONTRACT WITH THE SURVEYOR OF RECORD FOR REINSTALLATION OF THE MONUMENT.
- ALL DEBRIS RESULTING FROM ALL ACTIVITIES SHALL BE DISPOSED OF OFF-SITE BY CONTRACTOR.
- ALL EXCESS SUITABLE AND UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR UNLESS DIRECTED OTHERWISE BY ENGINEER OR OWNER.
- ALL EXISTING TREES TO REMAIN SHALL BE PRESERVED AND PROTECTED.
- BURNING OF TREES, BRUSH AND OTHER MATERIAL SHALL BE APPROVED, PERMITTED AND COORDINATED WITH CITY OF JACKSONVILLE FIRE MARSHALL.
- ROADWAY UNDERDRAINS SHALL BE AS REQUIRED ON THE PLANS OR AS MAY BE DETERMINED NECESSARY BY THE GEOTECHNICAL ENGINEER DURING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF HIGH GROUND WATER CONDITIONS ARE PRESENT DURING THE PREPARATION OF THE ROADWAY SUB-BASE.
- PROVIDE CONTRACTION JOINTS AT 6' O.C. AND EXPANSION JOINTS AT 24' O.C. ON ALL EXTERIOR SIDEWALKS AND CURBING.
- MAINTENANCE OF TRAFFIC SHALL CONFORM TO F.D.O.T. STANDARD INDEX 600, LATEST EDITION.
- ALL SIGNING AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH F.D.O.T. STANDARD INDEXES 11860, 17346, AND 17352.
- ALL EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH THE PROPOSED ROADWAY/SITE DEVELOPMENT SHALL BE REMOVED BY THE CONTRACTOR UTILIZING THE HYDRO-BLASTING METHOD.
- ALL PAVEMENT STRIPING IN R/W SHALL BE THERMOPLASTIC (LEAD-FREE) IN ACCORDANCE WITH CITY OF JACKSONVILLE STANDARDS. ONSITE STRIPING SHALL BE GOOD QUALITY TRAFFIC PAINT.
- CITY OF JACKSONVILLE REVIEW INSPECTOR SHALL BE CONTACTED 24 HOURS PRIOR TO ALL NECESSARY SITE WORK INSPECTIONS AND 5 DAYS PRIOR TO FINAL INSPECTION.

UTILITY NOTES:

- THE LOCATION OF ALL EXISTING UTILITIES, STRUCTURES AND IMPROVEMENTS SHOWN ON THE DRAWINGS IS BASED ON LIMITED INFORMATION AND MAY NOT HAVE BEEN VERIFIED. THE LOCATIONS ARE APPROXIMATE. THE CONTRACTOR SHALL NOTIFY RESPECTIVE UTILITY OWNERS AND FIELD VERIFY LOCATIONS OF EXISTING UTILITIES AND OTHER IMPROVEMENTS PRIOR TO COMMENCING ANY CONSTRUCTION. IF THE LOCATIONS SHOWN ARE CONTRARY TO THE ACTUAL LOCATIONS, THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER OF THE DISCREPANCY. THIS DISCREPANCY SHOULD BE RESOLVED PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING IN AREAS NEAR EXISTING UTILITIES AND IMPROVEMENTS AND SHALL BE RESPONSIBLE FOR AND SHALL REPAIR OR PAY FOR ALL DAMAGE MADE TO EXISTING UTILITIES OR OTHER IMPROVEMENTS. PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL GRADES, INVERTS AND TYPE OF MATERIAL OF EXISTING UTILITIES TO WHICH HE SHALL CONNECT.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON ALL MATERIALS, IF REQUIRED, TO THE ENGINEER FOR REVIEW AND APPROVAL, PRIOR TO SUBMITTAL TO CITY OF JACKSONVILLE AND JEA, PRIOR TO PURCHASE OR CONSTRUCTION OF ANY UTILITY PIPE OR STRUCTURE.
- ALL PIPE LENGTHS ARE SCALED DIMENSIONS. ALL DRAINAGE STRUCTURES SHALL BE CONSTRUCTED TO CONFORM WITH CITY OF JACKSONVILLE REQUIREMENTS AND SHALL BE CONSTRUCTED TO CONFORM WITH CURBING, PROPERTY LINES, BANK SLOPES AND LOW POINTS AS SHOWN ON THE PLANS.
- CONTRACTOR SHALL INSURE THAT ALL DRAINAGE STRUCTURES, PIPES, ETC. ARE CLEAN AND FUNCTIONING PROPERLY AT TIME OF ACCEPTANCE.
- ALL DRAINAGE STRUCTURES TO HAVE TRAFFIC BEARING GRATES.
- ALL DRAINAGE PIPE JOINTS IN CITY OF JACKSONVILLE DRAINAGE EASEMENTS, DRAINAGE EASEMENTS BETWEEN PRIVATE LOTS, DRAINAGE RIGHT-OF-WAYS AND UNDER PAVED ROADS ARE TO BE FILTER-WRAPPED.
- ALL INVERTS IN DRAINAGE STRUCTURES TO BE PRECAST OR BRICK WITH LAYER OF MORTAR BETWEEN EACH LAYER OF BRICK, OR REDDI-MIX CONCRETE WITH #57 STONE.
- UNSUITABLE MATERIALS UNDER WATER, SEWER PIPE, STORM PIPE OR STRUCTURES SHALL BE REMOVED AND REPLACED WITH SELECTED BACKFILL, PROPERLY COMPACTED.
- ALL UNDERGROUND UTILITIES MUST BE INSTALLED PRIOR TO PREPARATION OF SUBGRADE FOR PAVEMENT.
- ALL WATER AND SEWER CONSTRUCTION WITHIN CITY OF JACKSONVILLE SHALL BE ACCOMPLISHED BY AND UNDERGROUND UTILITY CONTRACTOR LICENSED UNDER THE PROVISIONS OF CHAPTER 489 FLORIDA STATUTES.
- CONTRACTOR SHALL PROVIDE, TO THE ENGINEER, A SCHEDULE OF INVERT ELEVATIONS OF ALL SANITARY MANHOLES PRIOR TO THE PLACEMENT OF THE LIMEROCK BASE COURSE. THIS SCHEDULE TO BE PROVIDED BY THE REGISTERED LAND SURVEYOR SUBMITTING THE "AS-BUILT" DRAWINGS FOR THIS PROJECT.
- ALL SEWER MAINS SHALL BE PVC (ASTM-3034) SDR-26 FOR DEPTHS TO 15 FEET, SDR-26 FOR DEPTHS 15' OR DEEPER, OR IN EASEMENTS UNLESS OTHERWISE NOTED. FORCE MAINS TO BE PVC - SDR-18 PIPE UNLESS OTHERWISE NOTED.
- SANITARY SEWER SERVICES SHALL BE 6" PVC WITH A MINIMUM SLOPE OF 0.01 FEET PER FOOT AND SHALL BE TERMINATED AT THE RIGHT-OF-WAY LINE WITH A DEPTH OF 48" UNLESS OTHERWISE DETAILED OR RESTRICTED DUE TO DEPTH OF SEWER MAIN.
- WATER LINES SHALL HAVE A MINIMUM OF 36" COVER FROM FINISHED GRADE.
- ALL POTABLE PVC PIPE 3 INCHES IN DIAMETER OR LESS SHALL BE LISTED AS N.S.F.P.W. AND SHALL BE SO MARKED.
- WATER AND SEWER LINES ARE DESIGNED TO FINISHED GRADES AND SHALL BE PROTECTED UNTIL FINISHED WORK IS COMPLETE.
- HORIZONTAL SEPARATION BETWEEN WATER MAINS, VALVES, FITTINGS AND SANITARY OR STORM SEWER SHALL BE A MINIMUM OF 10 FEET OR IN ACCORDANCE WITH THE F.D.E.P. REGULATIONS.
- WHERE PARALLEL WATER AND SEWER (INCLUDING STORM) LINES HAVE LESS THAN 10 FEET HORIZONTAL SEPARATION, FULL UNCUT LENGTHS OF WATER QUALITY PIPE (I.E. SDR-18 AWWA C-900 FOR NEWLY INSTALLED SEWER & SDR-18 AWWA C-900 WATER) WILL BE USED WITH THE JOINTS STAGGERED AT 10 FOOT INTERVALS OR THEY WILL BE PLACED ON AN UNDISTURBED SHELF OR IN A SEPARATE TRENCH WITH A MINIMUM VERTICAL SEPARATION OF AT LEAST 18 INCHES. IT IS PREFERABLE TO HAVE THE WATER MAINS LOCATED ABOVE THE SEWER AND WITH 10 FEET OF SEPARATION WHERE POSSIBLE.
- WHERE IT IS NOT POSSIBLE FOR WATER AND SEWER (INCLUDING STORM) LINES TO CROSS WITH A MINIMUM OF 18 INCHES OF VERTICAL CLEARANCE, A FULL UNCUT LENGTH OF WATER QUALITY PIPE (I.E. SDR-18 AWWA C-900 FOR NEWLY INSTALLED SEWER & SDR-18 AWWA C-900 WATER) WHICH IS USUALLY 20 FEET LONG WILL BE CENTERED ON THE POINT OF CROSSING. THE CONTRACTOR SHALL FIELD VERIFY THE VERTICAL SEPARATION. THE MINIMUM VERTICAL SEPARATION BETWEEN WATER AND SEWER (INCLUDING STORM) PIPES WHEN 18 INCHES IS NOT POSSIBLE WILL BE 6 INCHES OUTSIDE DIAMETER TO OUTSIDE DIAMETER. IT IS PREFERABLE TO HAVE THE WATER MAIN ABOVE THE SEWER LINES AND AT LEAST 18 INCHES VERTICAL SEPARATION.
- A FULL UNCUT LENGTH OF WATER MAIN PIPE (USUALLY 20 FEET) SHALL BE CENTERED AT THE POINT OF CROSSING OF ALL WATER AND SEWER (INCLUDING STORM) LINES AT THE POINT OF CROSSINGS REGARDLESS OF VERTICAL SEPARATIONS.
- IN THE CASE WHERE SOLVENT CONTAMINATION IS FOUND IN THE TRENCH, WORK WILL BE STOPPED AND THE PROPER AUTHORITIES NOTIFIED. WITH THE APPROVAL OF THE CITY OF JACKSONVILLE HEALTH DEPARTMENT, DUCTILE IRON PIPE, FITTINGS AND APPROVED SOLVENT RESISTANT GASKET MATERIAL SHALL BE USED IN THE CONTAMINATED AREA. THE DUCTILE IRON PIPE WILL EXTEND AT LEAST 100 FEET BEYOND ANY DISCOVERED SOLVENT.
- IN REGARD TO THE REQUEST FOR A LETTER OF RELEASE TO PLACE THE CONSTRUCTION INTO SERVICE, THE BACTERIOLOGICAL SAMPLE POINTS WILL BE INDICATED IN RED OR PINK ON THE RECORD OR AS-BUILT DRAWINGS. THE SAMPLE NUMBERS WILL CORRESPOND TO THOSE ON THE BACTERIOLOGICAL SAMPLE LAB SHEETS.
- THE RECORD OR AS-BUILT DRAWINGS SUBMITTED AT THE TIME OF REQUEST FOR A LETTER OF RELEASE TO PLACE THE CONSTRUCTION INTO SERVICE WILL CLEARLY DEPICT THE VERTICAL CLEARANCES BETWEEN WATER AND SEWER (INCLUDING STORM) LINES AT ALL CROSSING AND PARALLEL RUNS WHERE THE HORIZONTAL SEPARATION IS LESS THAN 10 FEET. IN ADDITION, THE CENTERING OF UNCUT LENGTHS OF PIPE (USUALLY 20 FEET) AT POINTS OF CROSSINGS WILL BE DOCUMENTED ON THE DRAWINGS AND ALL MITIGATING CONSTRUCTION MEASURES CLEARLY DEPICTED IN CASES WHERE A MINIMUM OF 18 INCHES OF VERTICAL CLEARANCE BETWEEN THE WATER AND SEWER (INCLUDING STORM) LINES IS NOT POSSIBLE.
- MECHANICAL RESTRAINING DEVICES ARE REQUIRED IN ACCORDANCE WITH UTILITY COMPANY STANDARDS WHERE WATER MAINS ARE TERMINATED AND AT ALL BENDS AND TEES.
- UNLESS OTHERWISE NOTED, ALL OFF-SITE WATER MAIN TO BE PVC AWWA DR18, C-900 AND ALL ON-SITE WATER MAIN 4" AND GREATER SHALL BE DR18, AWWA C-900. ALL ON-SITE WATER MAIN 2" OR SMALLER SHALL BE SCHEDULE 40 AND N.F.S.P.W. RATED.
- ALL GATE VALVES SHALL BE UTILITY COMPANY STANDARD. VALVES SHALL BE MECHANICAL JOINT, CAST IRON, BRONZE FITTED WITH RESILIENT SEAT. ALL VALVES SHALL OPEN BY TURNING TO THE LEFT. VALVES SHALL BE RATED AT 200 PSI WORKING PRESSURE AND 400 PSI TEST PRESSURE.
- ALL ONSITE HYDRANT BODIES SHALL BE PAINTED BRIGHT WHITE AND CAPS COLOR CODED TO THEIR FLOW CAPACITY FOR PRIVATE HYDRANTS PER NFPA 291, CHAPTER 5. CONTRACTOR TO VERIFY COLORS AND PAINT TYPE TO BE USED WITH FIRE MARSHAL'S STAFF PRIOR TO FINAL INSPECTION.

- ALL ELECTRIC CONDUIT WORK SHALL BE COMPLETED PRIOR TO THE PRESSURE TESTING OF WATER AND SEWAGE FORCE MAINS.
- ALL WATER MAINS SHALL BE BACTERIOLOGICAL AND PRESSURE TESTED AT 150 PSI FOR 2 HOURS IN ACCORDANCE WITH AWWA C-600 STANDARDS AFTER LIMEROCK BASE COMPACTION. NO CONNECTION TO EXISTING POTABLE WATER SYSTEM SHALL BE ALLOWED UNTIL ALL PROPOSED WATER LINES HAVE BEEN PRESSURE TESTED AND DISINFECTED IN ACCORDANCE WITH AWWA C-651, AND CLEARED FOR SERVICE. THE ENGINEER AND JEA REPRESENTATIVE MUST BE NOTIFIED 48 HOURS PRIOR TO PERFORMING THE PRESSURE TEST AND MUST BE PRESENT.
- A PRE-CONSTRUCTION CONFERENCE IS REQUIRED AND SHALL BE SCHEDULED WITH CHRIS BARRINGTON OF JEA NEW DEVELOPMENT PROJECT COORDINATION AT (904) 665-4081. THE CONTRACTOR SHALL OBTAIN AGENT AUTHORIZATION FROM THE OWNER PRIOR TO SCHEDULING THIS MEETING - USING JEA'S FORM.
- TELEVISION INSPECTION SHALL BE REQUIRED ON ALL GRAVITY SEWER MAINS AFTER THE LIMEROCK HAS BEEN COMPACTED. THIS SERVICE SHALL BE PROVIDED BY THE CONTRACTOR AS PART OF THE SANITARY SEWER CONTRACT. A FULL WRITTEN REPORT AS TO THE CONDITION OF THE PIPE WITH PERTINENT DATA SUCH AS DISTANCE BETWEEN MANHOLES, LOCATION OF SERVICES, ETC. SHALL BE SUBMITTED TO THE OWNER AND ENGINEER PRIOR TO ACCEPTANCE. AND ONE COPY OF THE VIDEO SHALL BE SUBMITTED TO JEA AND ENGINEER EACH. ALL DEFECTIVE AREAS AND ITEMS SHALL BE REPLACED OR REPAIRED PRIOR TO FINAL ACCEPTANCE. ALL REPAIRED SECTIONS MUST BE REINSPECTED PRIOR TO ACCEPTANCE.
- SEWER PIPE SHALL BE TESTED FOR DEFORMATION OR DEFLECTION. ANY PIPE FOUND TO BE DEFORMED AND/OR DEFLECTED IN EXCESS OF 7.5% OF THE NOMINAL DIAMETER OF THE PIPE SHALL BE REMOVED AND REPLACED AT NO ADDITIONAL COST. ALL MANDRELS USED IN TESTING SHALL BE AVAILABLE TO BE CHECKED FOR PROPER SIZING BY THE USE OF TRUING RINGS AT THE REQUEST OF JEA REPRESENTATIVE. RESULTS OF THE TEST SHALL BE SUBMITTED TO JEA FOR REVIEW.
- THE CONTRACTOR SHALL AVOID SERVICE INTERRUPTIONS AND MAINTAIN ANY EXISTING WATER AND SEWER SERVICE TO MEET THE SYSTEM DEMANDS AT ALL TIMES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION OF AFFECTED CUSTOMERS OF THE UTILITY A MINIMUM OF 48 HOURS IN ADVANCE OF ANY INTERRUPTION OF SERVICE.
- ALL NEW AND/OR RELOCATED WATER MAIN PIPES AND FITTINGS SHALL NOT CONTAIN MORE THAN EIGHT PERCENT LEAD AND ALL PACKING AND JOINT MATERIALS USED IN THE JOINTS SHALL CONFORM WITH ALL APPLICABLE AWWA STANDARDS. ALL NEW AND/OR RELOCATED WATER SERVICES AND PLUMBING SHALL CONTAIN NO MORE THAN EIGHT PERCENT LEAD AND ALL SOLDERS AND FLUX SHALL CONTAIN NO MORE THAN 0.2 PERCENT LEAD.
- ALL WATER AND SEWER CONSTRUCTION MATERIALS TO BE CONSTRUCTED IN CITY OF JACKSONVILLE RIGHT-OF-WAY OR CITY OF JACKSONVILLE EASEMENT MUST BE IN CONFORMANCE WITH THE JEA APPROVED MATERIALS MANUAL.
- CONTRACTOR SHALL INSTALL WARNING TAPE ON ALL WATER MAINS AND FORCE MAINS IN ACCORDANCE WITH JEA STANDARDS.
- CONTRACTOR SHALL CONTACT [SUNSHINE NETWORK \(1-800-432-4770\)](tel:1-800-432-4770) 48 HOURS PRIOR TO STARTING PROPOSED WORK.
- ALL SEWAGE FORCE MAINS SHALL BE HYDROSTATIC TESTED AND CONSIST OF A COMBINED PRESSURE TEST AND LEAKAGE TEST FOR A MINIMUM DURATION OF TWO HOURS AT 150 PSI IN ACCORDANCE WITH AWWA C-600 STANDARDS. THE ENGINEER MUST BE NOTIFIED 48 HOURS PRIOR TO PERFORMING THE PRESSURE TEST AND MUST BE PRESENT.

J.E.A. SPECIAL NOTES:

- ALL WORK WILL BE PERFORMED IN ACCORDANCE WITH JEA STANDARD DETAILS AND SPECIFICATIONS AND/OR AS ALL APPLICABLE STATE AND LOCAL REGULATIONS.
- ALL NEW WATER AND SEWER TAPS TO BE PERFORMED BY UTILITY CONTRACTOR OR LICENSED MASTER PLUMBER MUST BE SCHEDULED 48 HOURS IN ADVANCE THROUGH JEA INSPECTOR. IN ADDITION, IT IS THE ENGINEER OF RECORD'S RESPONSIBILITY TO SECURE APPLICABLE D.E.P. PERMITS IN ACCORDANCE WITH D.E.P. PERMITTING PROCEDURES.
- NOTICE TO METER APPLICANT: A COPY OF THE RECORDED METER EASEMENT WILL BE PROVIDED TO THE J.E.A. TO JEA CUSTOMER SERVICE TAPS AND METERS COUNTER AT TIME OF METER APPLICATION AT 515 N. LAURA ST. JEA C.C. BLDG., 1st FLOOR.
- METER TO BE INSTALLED BY J.E.A. FORCES UPON APPLICATION AND PAYMENT.
- NOTICE OF PROCEDURE: ALL COMMERCIAL BUILDING PERMITS AND TAP APPLICATIONS TO BE PROCESSED THOROUGH J.E.A. CUSTOMER SERVICE SHALL BE ACCOMPANIED BY A SET OF THE APPROVED CIVIL DESIGN PLANS FOR THE APPLICATION'S PROJECT.
- WATER AND SEWER CAPACITY FEES SHALL BE REQUIRED AT THE TIME OF THE BUILDING PERMIT APPLICATION. FEES WILL BE BASED ON TOTAL NUMBER OF PLUMBING FIXTURE UNITS SHOWN OR LISTED ON THE BUILDING PLANS.

IKN OFFICE BUILDING
4266 PABLO PROFESSIONAL COURT, JACKSONVILLE, FLORIDA
PREPARED FOR: JAXLITE, LLC

GENERAL NOTES



2046 CHEROKEE DRIVE, NEPTUNE BEACH, FLORIDA 32266
PHONE: (904) 616-4870 CERT. OF AUTHORIZATION 9428

NO.	REVISIONS	BY		DATE	

JOB NO. : 20014	
DATE: 3/5/21	
DRAWN BY: JPM	
CHECKED BY: GAA	
APPROVED BY: GAA	
SCALE: NONE	

SHEET

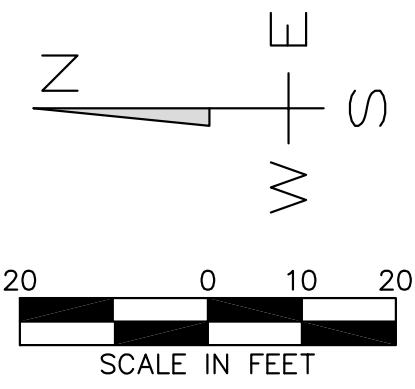
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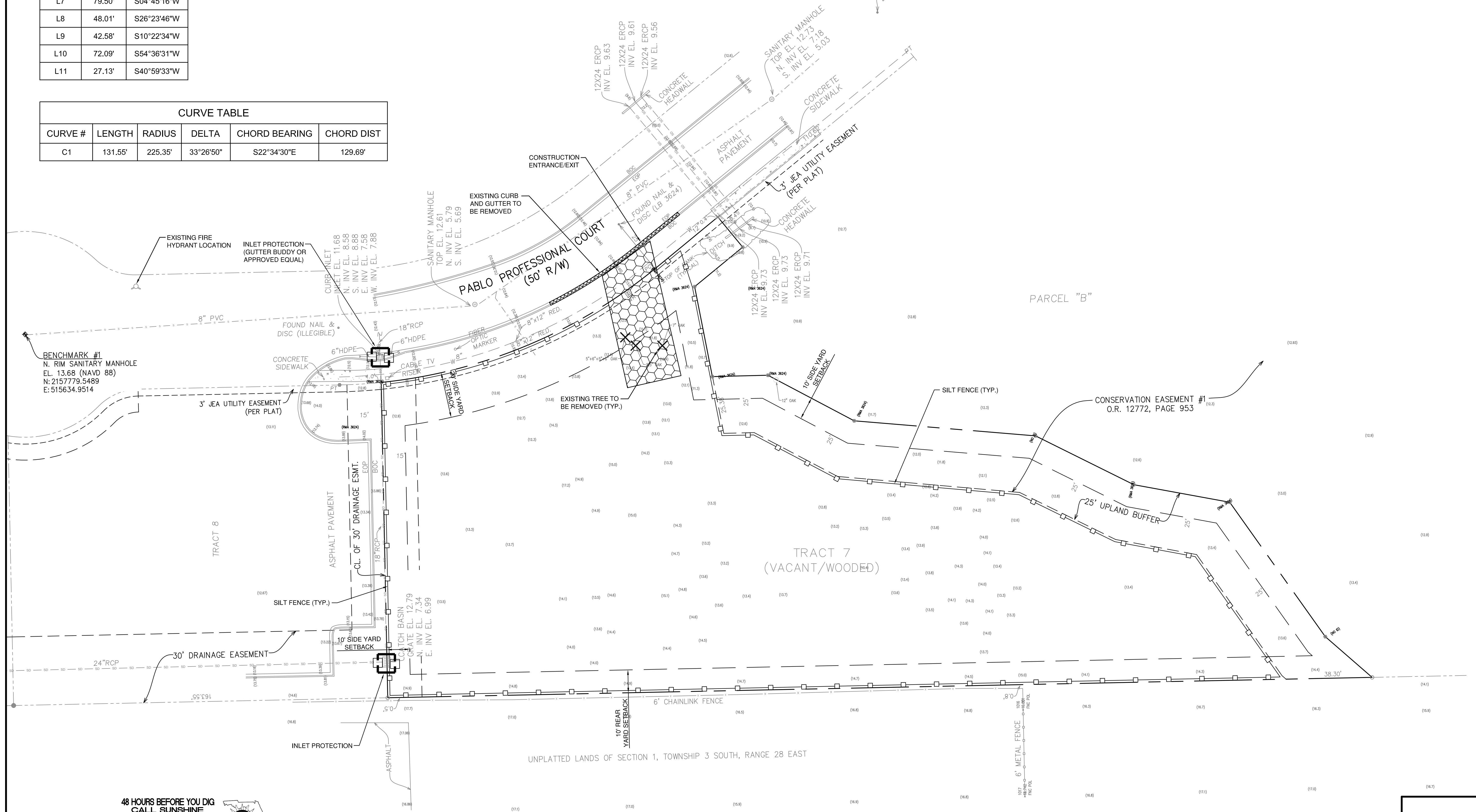
GARY A. ABBEY, P.E.
REG. NO. 56819

LINE TABLE		
LINE #	LENGTH	DIRECTION
L1	35.44'	S39°29'28"E
L2	17.10'	S50°26'02"W
L3	27.22'	N39°24'48"W
L4	40.07'	S78°50'16"W
L5	24.28'	S01°23'57"E
L6	42.66'	S27°50'14"W
L7	79.50'	S04°45'16"W
L8	48.01'	S26°23'46"W
L9	42.58'	S10°22'34"W
L10	72.09'	S54°36'31"W
L11	27.13'	S40°59'33"W

CURVE TABLE					
CURVE #	LENGTH	RADIUS	DELTA	CHORD BEARING	CHORD DIST
C1	131.55'	225.35'	33°26'50"	S22°34'30"E	129.69'



BENCHMARK #2
SET PK NAIL & DISK
LB 1704
EL. 12.12 (NAVD 88)
N: 2157409.7639
E: 515789.4066



48 HOURS BEFORE YOU DIG
CALL SUNSHINE
1-800-432-4770
IT'S THE LAW IN FLORIDA

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GARY A. ABBEY, P.E.
REG. NO. 56819

KN OFFICE BUILDING
PABLO PROFESSIONAL COURT, JACKSONVILLE, FL

PREPARED FOR: JAXLITE, LLC

EXISTING CONDITIONS AND DEMOLITION PLAN



Abbey
CIVIL ENGINEERS, INC.

2046 CHEROKEE DRIVE, NEPTUNE BEACH, FLORIDA 32266
PHONE: (304) 616-4870 CERT. OF AUTHORIZATION 9428

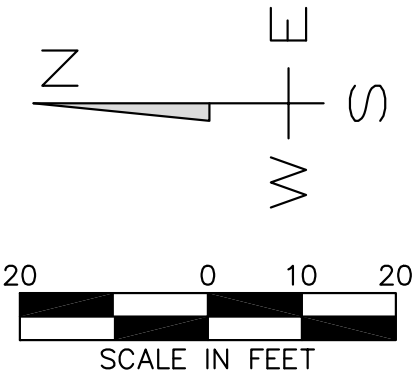
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SCALE: 1"=20'	SCALE	SCALE

SHEET

3

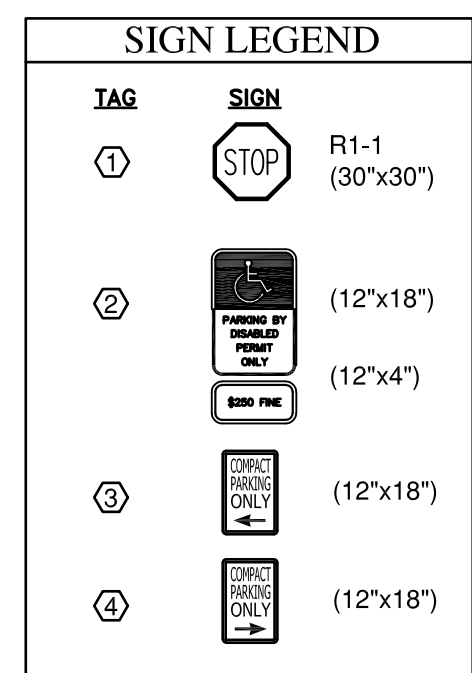
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<u>DATA SUMMARY:</u>			
PARCEL NUMBER: 167772-9560			
ZONING: CO LAND USE: RPI			
PARKING REQUIREMENTS:			
		<u>REQUIRED</u>	<u>PROPOSED</u>
PROFESSIONAL AND BUSINESS OFFICES			
3 SPACES PER 1,000 SF (MIN.)			
14,000 / 1,000 x 3 =		42	
PARKING BREAKDOWN:			
STANDARD SPACES (9' x 18') =			34
COMPACT SPACES (8' x 18') =			14
HANDICAP SPACES (12' x 18') =			<u>2</u>
TOTAL:			50
BICYCLE PARKING:			
OFFICES			
1 PER 20,000 SF (2 MINIMUM)		2	2
PROVIDED:			
LOT AREA:			50,095 SF (1.15 ACRES)
TOTAL ENCLOSED FLOOR AREA			14,000 SF
MAXIMUM LOT COVERAGE FOR BUILDINGS:			
PROPOSED BUILDING (FIRST FLOOR):		7,000 SF	
7,000 SF / 50,095 SF =		50% MAX.	14.0%
BUILDING SETBACKS:			
FRONT:	20'		21.48'
SIDES:	10'		15.50'
REAR:	10'		12.00'
MAXIMUM BUILDING HEIGHT:		35'	29.0' (2 STORIES)
IMPERVIOUS AREAS:			
<u>PROPOSED:</u>			
BUILDINGS:			7,000 SF
PAYEMENT AND SIDEWALKS:			<u>21,459 SF</u>
TOTAL PROPOSED IMPERVIOUS:			28,459 SF
OVERALL PERCENT IMPERVIOUS:			
28,459 SF / 50,095 SF =		80% MAX.*	56.8%
* PER SJRWMD PERMIT #97644-1			
VEHICULAR USE AREA:			19,000+ SF

- NOTES:
1. REFER TO ARCHITECTURAL PLANS FOR EXACT BUILDING DIMENSIONS.
 2. REFER TO ARCHITECTURAL AND MECHANICAL PLANS FOR EXACT LOCATIONS OF AIR CONDITIONING UNITS.



IKN OFFICE BUILDING
4266 PABLO PROFESSIONAL COURT, JACKSONVILLE, FLORIDA
PREPARED FOR: JAXLITE, LLC

GEOMETRIC CONTROL PLAN

Abbey
CIVIL ENGINEERS, INC.

2046 CHEROKEE DRIVE, NEPTUNE BEACH, FLORIDA 32561
PHONE: (904) 618-4370

	JOB NO.: 20014	NO.	REVISIONS	BY	DATE
	DATE: 3/3/21				
	DRAWN BY : JPM				
	CHECKED BY : GAA				
	APPROVED BY : GAA				
	SCALE: 1"=30'				

SHEET

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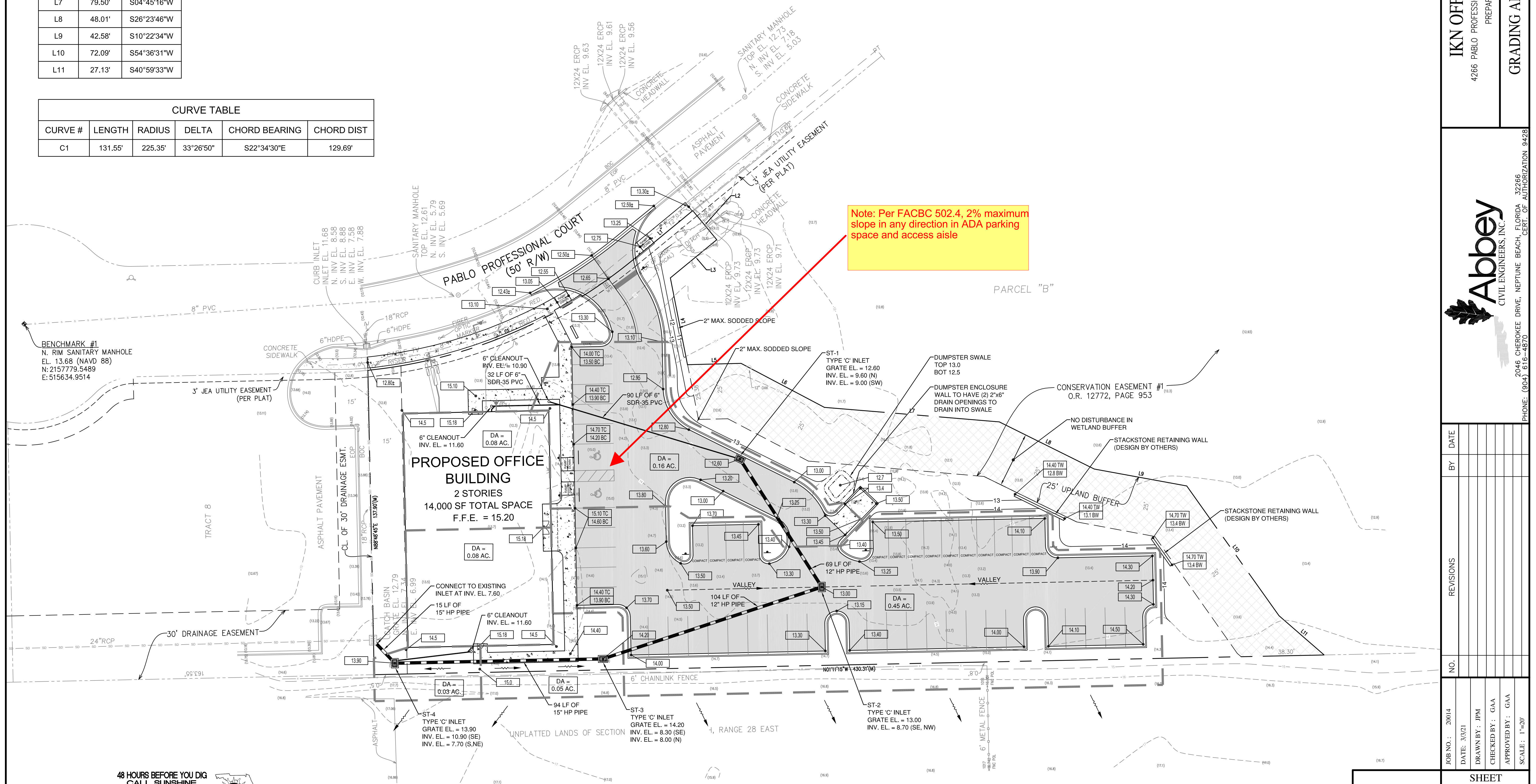
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REG. NO. 56819

48 HOURS BEFORE YOU DIG
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1-800-432-4770
IT'S THE LAW IN FLORIDA



LINE TABLE		
LINE #	LENGTH	DIRECTION
L1	35.44'	S39°29'28"E
L2	17.10'	S50°26'02"W
L3	27.22'	N39°24'48"W
L4	40.07'	S78°50'16"W
L5	24.28'	S01°23'57"E
L6	42.66'	S27°50'14"W
L7	79.50'	S04°45'16"W
L8	48.01'	S26°23'46"W
L9	42.58'	S10°22'34"W
L10	72.09'	S54°36'31"W
L11	27.13'	S40°59'33"W

CURVE TABLE					
CURVE #	LENGTH	RADIUS	DELTA	CHORD BEARING	CHORD DIST
C1	131.55'	225.35'	33°26'50"	S22°34'30"E	129.69'



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PREPARED FOR: JAXLITE, LLC

GRADING AND DRAINAGE PLAN



Abbey
CIVIL ENGINEERS, INC.

2046 CHEROKEE DRIVE, NEPTUNE BEACH, FLORIDA 32266
PHONE: (904) 616-4870 CERT. OF AUTHORIZATION 9428

DATE: 3/3/21	NO.	REVISION	DATE
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2046 CHEROKEE DRIVE, NEPTUNE BEACH, FLORIDA 32266
PHONE: (904) 616-4870
CIVIL ENGINEERS, INC.



- ## OPEN CUT TRENCH FOR PRESSURE PIPE

CASE "A" CROSSING

- ## ADJUSTMENT OVER EXISTING UTILITIES MECHANICAL RESTRAINTS

CASE "B" CROSSING

- ## ADJUSTMENT UNDER EXISTING UTILITIES MECHANICAL RESTRAINTS

A/C CONDENSATE DRAIN DETAIL

CLASS 'B' BEDDING DETAIL

NOTES:

- ## SPRINKLER RISER DETAIL

CASE I
SEPARATE INDIVIDUAL SERVICE ARRANGEMENT



KEY

- NOTES:

1. SHOULD AN INSTALLATION INCLUDE MULTIPLE WATER SERVICES FOR THE SAME CUSTOMER (E.G. DOMESTIC, IRRIGATION, FIRE) AND ONE OR MORE OF THOSE SERVICES ARE 3 INCH OR LARGER, A SEPARATE ISOLATION ARRANGEMENT (SHOWN IN THE ATTACHED DRAWING) SHALL BE PROVIDED.
- A. THE PROJECT DESIGN ENGINEER (FLORIDA PROFESSIONAL ENGINEER) PROVIDES ACCEPTABLE HYDRAULIC CALCULATION (ENGINEERED, SIGNED AND SEALED) WHICH MEETS THE MOST STRINGENT OF THE FOLLOWING REQUIREMENTS:
 1. TO MEET JEAN AND LOCAL FIRE CODE REQUIREMENTS, A SEPARATE ISOLATION VALVE (BELOW GROUND) SHALL BE INSTALLED FOR EACH SERVICE, AND THE SERVICE SHALL BE INSTALLED ON A MANIFOLD ARRANGEMENT.
 2. THE SPECIFIC PROPOSED WATER SERVICE ARRANGEMENT IS IN ACCORDANCE WITH JEAN STANDARDS AND APPROVED BY JEAN.
2. BACKFLOW PREVENTER (BFP). THE ABOVE GROUND VALVE SHALL MEET JEAN'S CROSS-COMPARTMENT CONTROL PROGRAM. THIS JEAN APPROVED VALVE SHALL BE INSTALLED WITHIN TEN (10) FEET RIGHT-OF-WAY LINE OR JEAN EASEMENT UNLESS APPROVED OTHERWISE BY JEAN. ALL BFP'S INSTALLED ON A FIRE LINE SHALL INCLUDE AN EXCESS FLOW VALVE.
3. REDUCER ONLY REQUIRED IF APPROVED BY JEAN REPRESENTATIVE (1" SERVICE REDUCER MUST BE AT CONTROL VALVE AT MIN. 2" SERVICE CAN BE REDUCED TO 1" INSIDE THE SERVICE BUDOK)

WATER SERVICE MANIFOLD ARRANGEMENT

NOTES

1. SET PLATE W-1 FOR METER LOCATION REQUIREMENTS.
2. SINGLE BAND SADDLES SHALL BE UTILIZED ON NEW 1" WATER SERVICES WHICH ARE INSTALLED ON A DRY 10" SIZE OR SMALLER WATER MAIN (NEW WATER MAIN CONSTRUCTION); FOR WET TAPS OR WATER MAINS 12" SIZE AND LARGER, A DOUBLE BAND SADDLE IS REQUIRED. BRASS SADDLES MAY BE UTILIZED ON NEW 1" INCH AND SMALLER WATER SERVICES WHICH ARE INSTALLED ON A DRY 10" TO INCH OR SMALLER PVC WATER MAIN.
3. NO OPEN CUT UNDER ROADWAY PAYING ALLOWED UNLESS THE ROADWAY IS BEING RECONSTRUCTED OR IF DIRECTED OTHERWISE BY A.C. CONSTRUCT POLY LINE WITH 24" (MIN.) COVER UNDER ROADWAYS. THE POLY WATER SERVICE LINE SHALL BE SAME SIZE AS THE METER (1" MIN.) AND BE INSTALLED PERPENDICULAR TO THE MAIN AND NOT EXCEED 100LF UNLESS APPROVED OTHERWISE BY JEA.
4. INSTALL PVC PLUG IN ALL CURB STOPS IF WATER SERVICE IS "NOT IN USE" (I.E.: IF NO METER IS INSTALLED, WATER SERVICES SERVING VACANT LOTS (SERVICE NOT IN USE), SHALL INCLUDE A "W" CUT INTO THE CURB (CLOSEST TO THE METER BOX), AND PAINT BLUE PAINT (OR PURPLE FOR RECLAIMED WATER). IN ADDITION, FOR NEW DEVELOPMENT AREAS WHERE THE WATER SERVICE IS "NOT IN USE", A LANDSCAPE TIMBER OR 3/3 MIN. P. POST (TOP PAINTED BLUE OR PURPLE FOR RECLAIMED WATER), THE REMOVAL OR TRANSFER OF A WATER SERVICE SHALL INCLUDE BRASS METER COUPLINGS (HSE ON BARREL TYPE).
5. NO 2" AND SMALLER WATER SERVICE TAPS PERMITTED ON WATER MAINS WHICH ARE 20" AND LARGER SIZE.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OR REPLACEMENT OF THE METER OR ELECTRONIC DEVICES IF DAMAGED BY THE CONTRACTOR DURING THE CONSTRUCTION PERIOD.
7. METER BOX AND TOP SHALL BE CLEAR OF ALL DEBRIS TO ALLOW FULL ACCESS TO BOX (i.e. NO DIRT, TRASH OR OTHER DEBRIS PLACED ON TOP OF BOX).
8. LOCATE WIRING REQUIRED FOR ALL SERVICES 10' OR GREATER IN LENGTH, SEE PLATE W-44.

WATER SERVICE DETAIL- 2" AND SMALLER METER

CLEANOUT DETAIL

NOT TO SCALE



NOT TO SCALE

JEA 2021 STANDARD DETAILS

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8

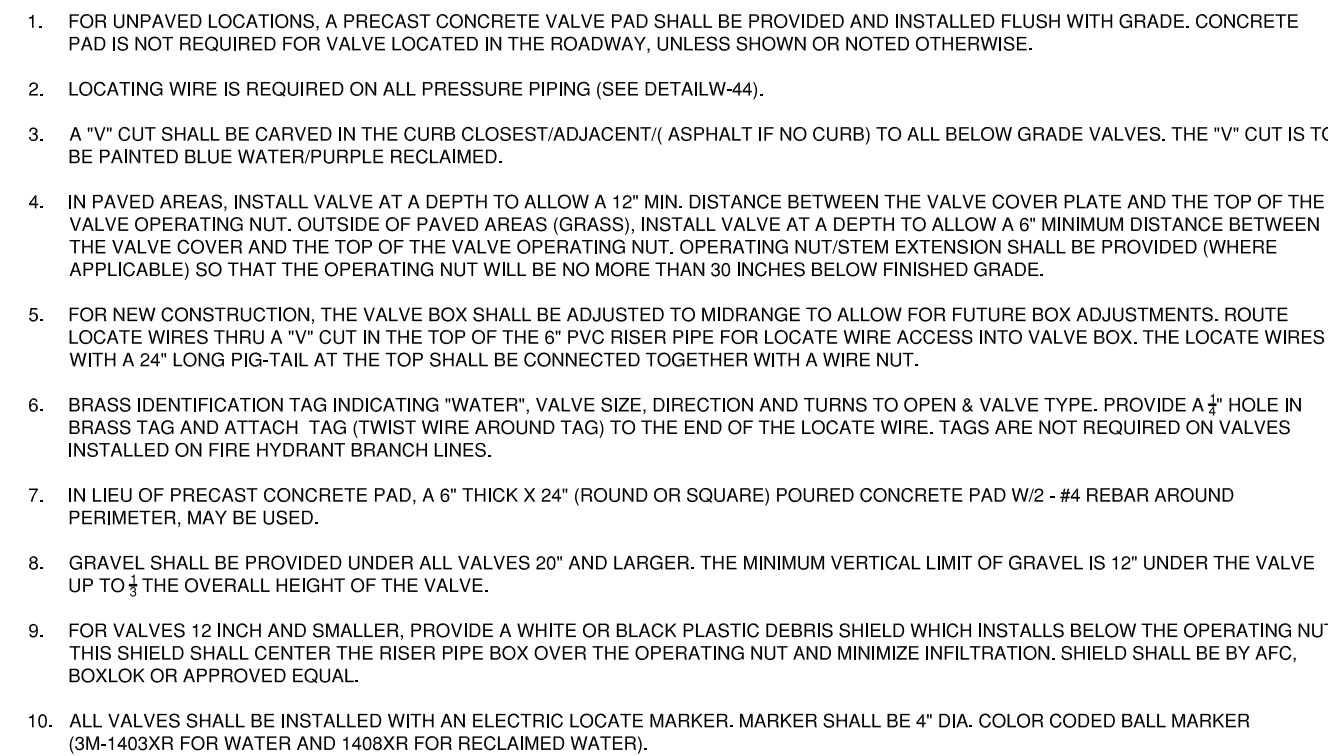


PLATE W-18

1. THIS SEPARATION REQUIREMENT IS TO PROVIDE ACCESSIBILITY FOR CONSTRUCTION AND MAINTENANCE. THREE FEET OF HORIZONTAL SEPARATION IS THE MINIMUM FOR PIPES WITH THREE FEET OF COVER. FOR PIPES INSTALLED AT GREATER DEPTH, PROVIDE AN ADDITIONAL FOOT OF SEPARATION FOR EACH ADDITIONAL FOOT OF DEPTH.
2. THE MINIMUM JOINT SPACING REQUIRED FROM CROSSING FROM OTHER UTILITIES WHILE STILL MAINTAINING MINIMUM VERTICAL SEPARATION.
3. DISTANCES GIVEN ARE FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE.
4. NO WATER PIPE SHALL PASS THROUGH OR COME INTO CONTACT WITH ANY PART OF SANITARY OR STORM WATER MANHOLE OR STRUCTURES.
5. WATER MAIN SHOULD CROSS ABOVE OTHER PIPES WHENEVER POSSIBLE. WHEN WATER MAIN MUST BE BELOW OTHER UTILITY PIPING, THE MINIMUM SEPARATION SHALL BE 12 INCHES.
6. REFER TO POTABLE WATER PIPING- SECTION 350, III.4.11.
7. SEE SECTION 350, III.4.10 FOR MINIMUM SEPARATION REQUIREMENTS FROM PIPE TO STRUCTURES.

PLATE W-10

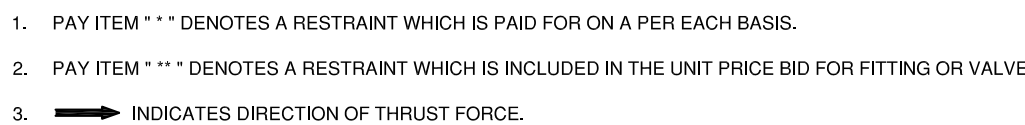


PLATE W-31C

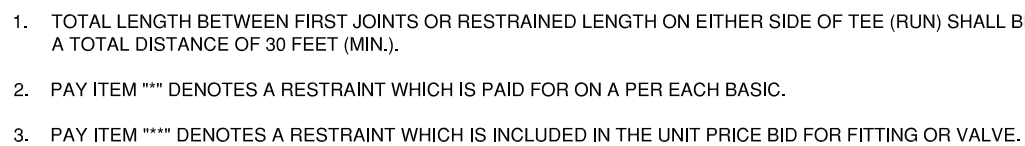
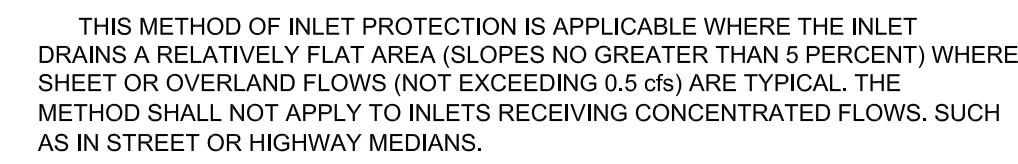


PLATE W-31C

PLATE W-31A

PLATE W-11

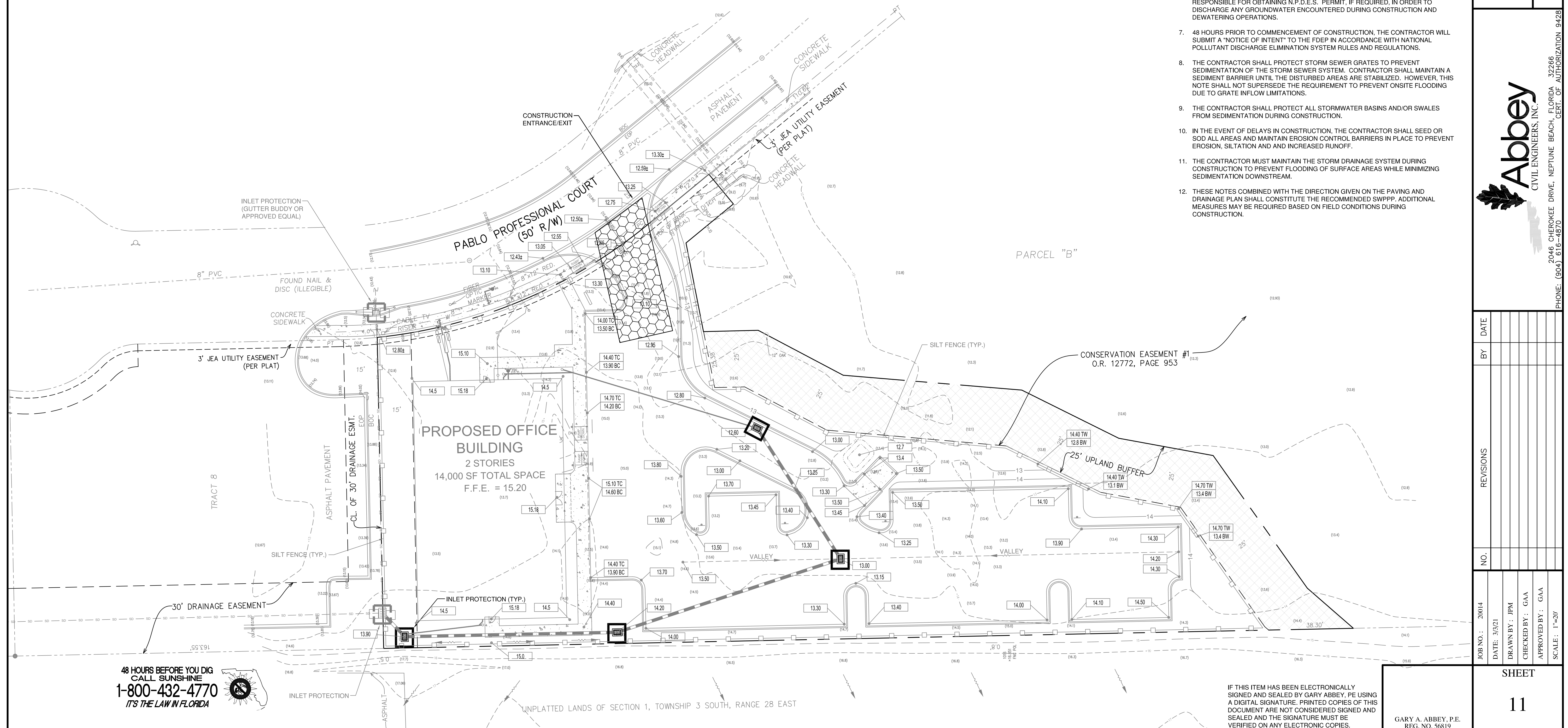
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1. THESE PLANS INDICATE THE MINIMUM EROSION AND SEDIMENT CONTROL MEASURES REQUIRED FOR THIS PROJECT. FOR ADDITIONAL INFORMATION ON SEDIMENT AND EROSION CONTROL REFER TO "THE FLORIDA DEVELOPMENT MANUAL-A GUIDE TO SOUND LAND AND WATER MANAGEMENT" FROM THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (F.D.E.P.) CHAPTER 6. THE CONTRACTOR SHALL PROVIDE EROSION PROTECTION AND TURBIDITY CONTROL AS REQUIRED TO INSURE CONFORMANCE TO STATE AND FEDERAL WATER QUALITY STANDARDS AND MAY NEED TO INSTALL ADDITIONAL CONTROLS TO CONFORM TO AGENCIES REQUIREMENTS. IF A WATER QUALITY VIOLATION OCCURS, THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR ALL DAMAGE AND ALL COSTS WHICH MAY RESULT INCLUDING LEGAL FEES, CONSULTANT FEES, CONSTRUCTION COSTS AND FINES.
2. THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE BEST EROSION AND SEDIMENT CONTROL PRACTICES AS OUTLINED IN THE PLANS AND SPECIFICATIONS AND THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT SPECIFICATIONS AND CRITERIA.
3. EROSION AND SEDIMENT CONTROL BARRIERS SHALL BE PLACED ADJACENT TO ALL WETLAND AREAS WHERE THERE IS POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADATION.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING A PERMANENT STAND OF SOD AND/OR GRASS PER COUNTY STANDARDS AND MEETING THE N.P.D.E.S. FINAL STABILIZATION REQUIREMENTS.
5. IF DETERMINING CAPACITY REQUIRES A CONSUMPTIVE USE PERMIT (C.U.P.) IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO OBTAIN THE PERMIT THROUGH THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT.
6. PRIOR TO COMMENCEMENT OF CONSTRUCTION AND EXCAVATION ACTIVITIES, THE CONTRACTOR SHALL PERFORM GROUNDWATER TESTING IN ACCORDANCE WITH THE ENVIRONMENTAL PROTECTION AGENCY FEDERAL REGISTER, PAGE 42739, PART 14.3, TO DETERMINE PETROLEUM CONTAMINATION LEVELS. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING N.P.D.E.S. PERMIT, IF REQUIRED, IN ORDER TO DISCHARGE ANY GROUNDWATER ENCOUNTERED DURING CONSTRUCTION AND DETERMINING OPERATIONS.
7. 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR WILL SUBMIT A "NOTICE OF INTENT" TO THE FDEP IN ACCORDANCE WITH NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM RULES AND REGULATIONS.
8. THE CONTRACTOR SHALL PROTECT STORM SEWER GRATES TO PREVENT SEDIMENTATION OF THE STORM SEWER SYSTEM. CONTRACTOR SHALL MAINTAIN A SEDIMENT BARRIER UNTIL THE DISTURBED AREAS ARE STABILIZED. HOWEVER, THIS NOTE SHALL NOT SUPERSEDE THE REQUIREMENT TO PREVENT ONSITE FLOODING DUE TO GRADE INFLOW LIMITATIONS.
9. THE CONTRACTOR SHALL PROTECT ALL STORMWATER BASINS AND/OR SWALES FROM SEDIMENTATION DURING CONSTRUCTION.
10. IN THE EVENT OF DELAYS IN CONSTRUCTION, THE CONTRACTOR SHALL SEED OR SOD ALL AREAS AND MAINTAIN EROSION CONTROL BARRIERS IN PLACE TO PREVENT EROSION, SILTATION AND INCREASED RUNOFF.
11. THE CONTRACTOR MUST MAINTAIN THE STORM DRAINAGE SYSTEM DURING CONSTRUCTION TO PREVENT FLOODING OF SURFACE AREAS WHILE MINIMIZING SEDIMENTATION DOWNSTREAM.
12. THESE NOTES COMBINED WITH THE DIRECTION GIVEN ON THE PAVING AND DRAINAGE PLAN SHALL CONSTITUTE THE RECOMMENDED SWPPP. ADDITIONAL MEASURES MAY BE REQUIRED BASED ON FIELD CONDITIONS DURING CONSTRUCTION.



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