



**AGENDA
TECHNICAL REVIEW COMMITTEE
REGULAR MEETING
JANUARY 9, 2020
9:00 AM
CITY HALL COMMISSION CHAMBERS
204 ASH STREET
FERNANDINA BEACH, FL 32034**

- 1. CALL TO ORDER**
- 2. ROLL CALL**
- 3. APPROVAL OF MINUTES**
 - 3.1 December 12, 2019 Regular Meeting
- 4. DISCUSSION ITEMS**
 - 4.1 SPR 2019-03 - Simmons Road Park
- 5. DEVELOPMENT INQUIRIES FROM APPLICANTS NOT ON THE AGENDA - DISCUSSION ONLY, NO ACTION TO BE TAKEN.**
- 6. COMMITTEE BUSINESS**
 - 6.1 SPR 2019-06 Crawford Jewelers/Retail - Sign off
 - 6.2 SPR 2019-08 Habitat Townhomes - Sign off
- 7. ADJOURNMENT**

NEXT REGULAR TRC MEETING IS SCHEDULED FOR JANUARY 23, 2020.

Persons with disabilities requiring accommodations in order to participate in this program or activity should contact 310-3115, TTY 711, or through the Florida Relay Services at 1-800-955-8771 (TTY number for all City offices) at least 24 hours in advance to request such accommodations.



**MINUTES
TECHNICAL REVIEW COMMITTEE
REGULAR MEETING
DECEMBER 12, 2019**

1. CALL TO ORDER – 9:04 am

2. ROLL CALL

MEMBERS PRESENT:

Jacob Platt, Planning
Andre Desilet, Stormwater
John Mandrick, Utilities
Dave Holley, Trees

Don Kukla, Building
Jason Higginbotham, Fire
Sal Cumella, Historic Preservation
Michelle Forstrom, Code Enforcement (arrived at 9:08am)

3. APPROVAL OF MINUTES

3.1 December 5, 2019 Special Meeting

ACTION TAKEN: A motion was made by Member Desilet, seconded by Member Kukla, to approve the minutes as presented.

Motion passed by unanimous voice vote.

4. DISCUSSION ITEMS

4.1 Pre-Application Discussion: North ½ of Lot 3, Block 53, S 10th Street – Jose Miranda, Miranda Architects, to discuss the construction of a small retail building for a floral business, ‘The Heirloom Yard’. Central Business District with C-3 Zoning and Historic District overlay.

Jose Miranda provided information and details specific to the project. There will be no residential component and on-site parking is not required under the C-3 zoning district. Drainage, landscaping and the potential need for a variance from the shade tree requirement were discussed.

The applicant was advised to return for a full site plan review.

5. DEVELOPMENT INQUIRIES FROM APPLICANTS NOT ON THE AGENDA- DISCUSSION ONLY, NO ACTION TO BE TAKEN.

5.1 Javon Pollard was present to discuss screening requirements for property he leases off of Will Hardee to store equipment and trucks for a concrete business.

5.2 Asa Gillette was present to discuss an unimproved portion of N 5th Street. Mr. Platt advised that the project will require full site plan review.

*****Computer detected an error and auto restarted at 9:40am. Audio recording ended*****

DRAFT

6. COMMITTEE BUSINESS

The committee discussed ROW encroachments at 22 S 8th Street.
30 N 2nd Street and the sidewalk at 2nd and Beech was also discussed.

7. ADJOURNMENT – 10:05 am

Jacob Platt

Engineering Plans

For

Simmon's Road Park

for

City of Fernandina Beach
Parks and Recreation Department

Main Beach Park Fernandina Beach, FL

Gillette & Associates, Inc.

Civil & Environmental Engineering
Mechanical & Structural Engineering
Permitting & Construction Management

20 South 4th Street Amelia Island, Florida 32034
Phone: (904) 261-8819



Issue Date:
August 21, 2019
Revision Date:
December 5, 2019

G&A Project
No.:19-10-08

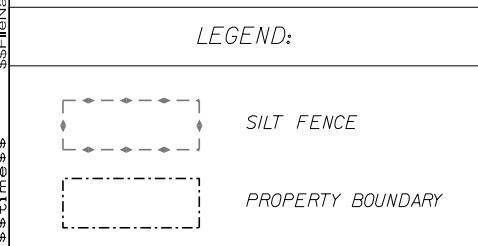
Simon's Road Park

FOR

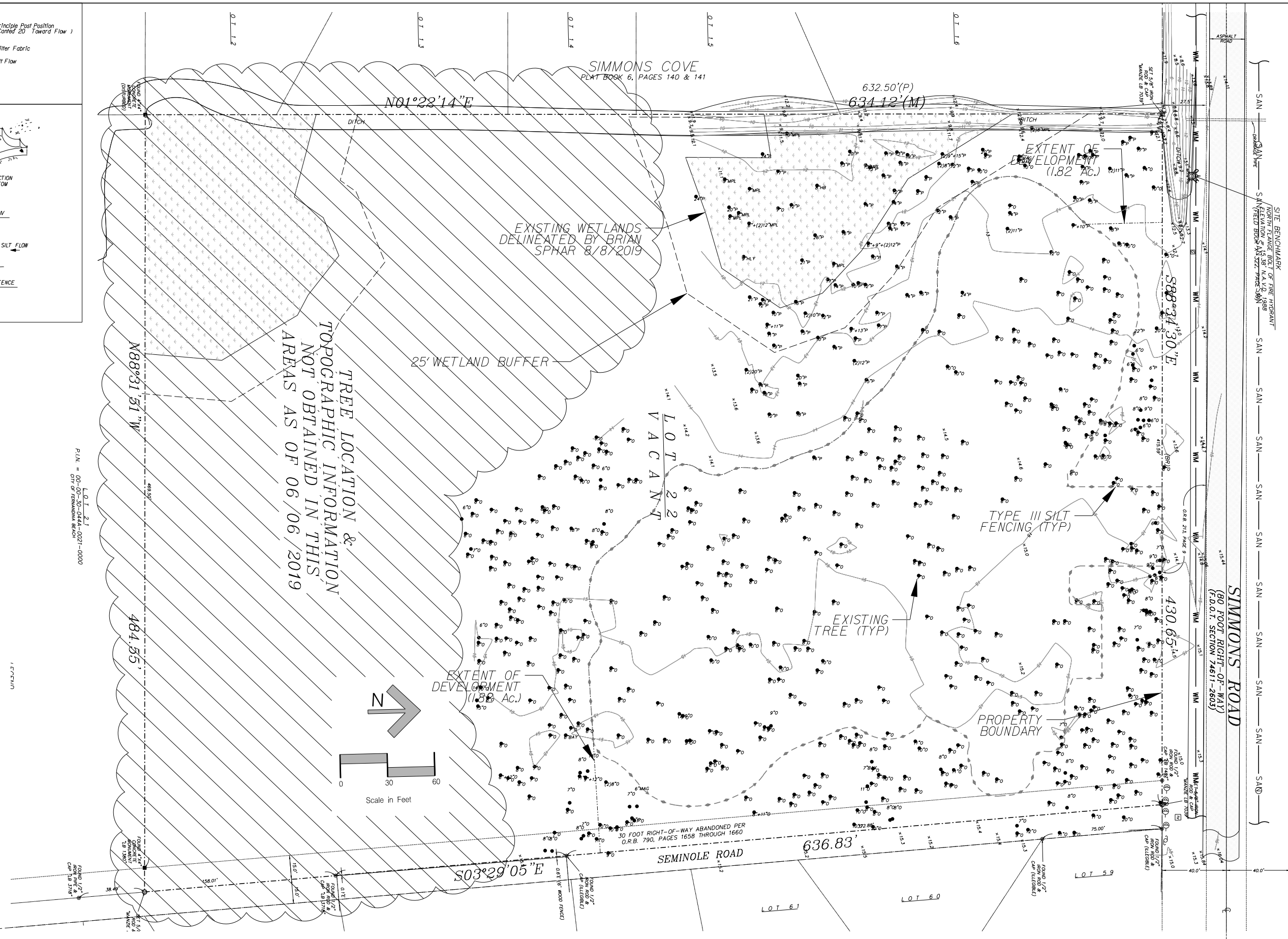
City of Fernandina Beach
Parks and Recreation Department

RELEASED FOR CONSTRUCTION BY _____

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1.ALL WORK SHALL BE PERFORMED IN A SAFE MANNER.ALL SAFETY RULES AND GUIDELINES OF OSHA 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 OSHA REGULATIONS AND THE FLORIDA TRENCH SAFETY ACT MUST BE INCLUDED IN THE CONTRACTOR'S PRICE FOR PERFORMING THE WORK. 2.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 SUBSURFACE,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 URGED TO TAKE COLOR PHOTOGRAPHS ALONG THE ROUTE OF THIS PROJECT TO RECORD EXISTING CONDITIONS PRIOR TO CONSTRUCTION,AND TO AID IN RESOLVING POSSIBLE FUTURE COMPLAINTS THAT MAY OCCUR DUE TO CONSTRUCTION OF THE PROJECT.ALL COSTS ASSOCIATED WITH PRELIMINARY INVESTIGATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. 3.ALL IMPROVEMENTS SHOWN ARE TO BE WARRANTED BY THE CONTRACTOR TO THE DEVELOPER. 4.ELEVATIONS ARE BASED ON NAVD DATUM OF 1988. 5.TOPOGRAPHIC AND BOUNDARY INFORMATION WAS PROVIDED BY:MANZIE & DRAKE LAND SURVEYING (904-491-5700). 6.THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY BUILDING,RIGHT-OF-WAY PERMITS NOT PROVIDED AND INSURANCE REQUIRED FOR THE PROJECT. 7.THE CONTRACTOR SHALL COORDINATE THE WORK WITHIN CITY,COUNTY OR STATE RIGHT-OF-WAY WITH THE PROPER AGENCIES FOR MAINTENANCE OF TRAFFIC AND METHOD OF CONSTRUCTION & REPAIR. 8.THE CONTRACTOR SHALL ADVISE THE OWNER'S AUTHORIZED REPRESENTATIVE OF PLANNED WORK SCHEDULE.THE CONTRACTOR SHALL COORDINATE THEIR CONSTRUCTION WITH ALL OTHER CONTRACTORS.IN THE EVENT OF ANY CONFLICT WHATSOEVER,THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD,AND THE OWNER PRIOR TO PROCEEDING WITH CONSTRUCTION. 9."AS-BUILT" DRAWINGS - AS-BUILTS 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. 10."AS-BUILT" RECORD DATA AND INFORMATION SHALL BE MAINTAINED BY THE CONTRACTOR.RECORD DRAWINGS SHALL BE SUPPLIED TO THE ENGINEER. 11.THE 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. 12.ALL DEBRIS RESULTING FROM ALL ACTIVITIES SHALL BE DISPOSED OF OFF-SITE BY CONTRACTOR ON A DAILY BASIS. 13.ALL EXCESS SUITABLE AND UNSUITABLE MATERIALS SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR UNLESS DIRECTED OTHERWISE BY THE ENGINEER. 14.ALL EXISTING TREES LISTED TO REMAIN SHALL BE PRESERVED AND PROTECTED. 15.THE LOCATION OF ALL EXISTING UTILITIES,STRUCTURES,AND IMPROVEMENTS ON THE DRAWINGS ARE BASED ON LIMITED INFORMATION AND MAY NOT HAVE BEEN FIELD 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 ACTUAL FIELD LOCATIONS.THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER OF THE DISCREPANCY.THE DISCREPANCY SHOULD BE RESOLVED PRIOR TO COMMENCING CONSTRUCTION.THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING IN AREAS NEAR EXISTING UTILITY IMPROVEMENTS AND SHALL BE RESPONSIBLE FOR REPAIRS OR PAYMENTS 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 THEY SHALL CONNECT. 16.THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER ON ALL MATERIALS,FOR REVIEW AND APPROVAL,PRIOR TO PURCHASE OR CONSTRUCTION OF ANY UTILITY OR STRUCTURE. 17.A UNSUITABLE MATERIALS UNDER WATER,SEWER,OR STORM PIPE AND/OR STRUCTURES SHALL BE REMOVED AND REPLACED WITH SELECTED BACKFILL COMPACTED TO 98% OF IT'S MAXIMUM DENSITY AS DETERMINED BY THE MODIFIED PROCTOR TEST (ASTM D1557). 17B. ALL FINISH FLOORS SHOWN ON THE PLANS ARE MINIMUM ELEVATIONS				18.ALL WATER & SEWER CONSTRUCTION SHALL BE ACCOMPLISHED BY AN UNDERGROUND UTILITY CONTRACTOR LICENSED UNDER THE PROVISIONS OF CHAPTER 489 FLORIDA STATUTES. 19.WHEN DEWATERING CAPACITY REQUIRES A PERMIT (ICUP),IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE PERMIT THROUGH THE ST.JOHNS RIVER WATER MANAGEMENT DISTRICT. 20.WATER MAINS SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED SANITARY HAZARD.THE DISTANCE SHALL BE MEASURED EDGE TO EDGE.WHERE PARALLEL WATER AND SEWER MAINS HAVE LESS THAN 10 FOOT HORIZONTAL SEPARATION,20 FOOT LENGTHS OF C900 (DR18)WATER QUALITY PIPE SHALL BE USED WITH THE JOINTS STAGGERED AT 10 FOOT INTERVALS.THE PIPES SHALL BE PLACED IN SEPARATE TRENCHES WITH THE WATER MAIN AT LEAST 18 INCHES ABOVE THE SEWER. 21.WATER MAINS CROSSING SANITARY HAZARDS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF THE SEWER MAIN.WHERE WATER AND SEWER MAINS CROSS WITH BETWEEN 18 INCHES AND 6 INCHES OF VERTICAL CLEARANCE,A 20 FOOT SECTION OF C900 (DR18)WATER QUALITY PIPE SHALL BE CENTERED ON THE POINT OF THE CROSSING.THE CONTRACTOR SHALL FIELD VERIFY THE VERTICAL SEPARATION.THE MINIMUM SEPARATION BETWEEN WATER AND SEWER PIPES IS TO BE 6 INCHES OUTSIDE DIAMETER TO OUTSIDE DIAMETER. 22.NO WATER MAIN PIPE SHALL PASS THROUGH OR COME IN CONTACT WITH ANY PART OF A SEWER MANHOLE. 23.BLANK 24.TRACER WIRE SHALL BE PROVIDED ON ALL WATER MAINS AND FORCE MAINS.TRACER WIRE SHALL BE #10 UF SOLID COPPER WIRE,COATED,AND SUITABLE FOR BURIAL.COATING SHALL BE BLUE FOR WATER AND GREEN FOR SEWER MAIN CONNECTIONS.WIRE SHALL BE ATTACHED DIRECTLY TO TOP OF PIPE AND BROUGHT INTO EACH VALVE BOX AND COILED TO ALLOW FOR EASY ACCESS AND EXTENSION ABOVE FINISHED GRADE FOR ATTACHMENT OF LOCATING EQUIPMENT. 25.ALL PIPE LENGTHS ARE APPROXIMATE DIMENSIONS,ALL DRAINAGE STRUCTURES SHALL BE CONSTRUCTED TO CONFORM WITH TYPICAL SECTIONS AND DETAILS AS SHOWN ON THE MISCELLANEOUS DETAILS SHEET AND IN ACCORDANCE WITH THE SPECIFICATIONS. 26.ALL UNDERGROUND UTILITIES MUST BE INSTALLED PRIOR TO PREPARATION OF SUBGRADE FOR PAVEMENT. 27.GRADES SHOWN ON PLANS ARE EDGE OF PAVEMENT FINISHED GRADES UNLESS OTHERWISE NOTED. 28.SHOULD THE SURFACE OR SUBSURFACE CONDITIONS VARY FROM WHAT IS SHOWN ON THE PLANS,THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER. 29. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE SEEDED AND MULCHED UNLESS OTHERWISE SPECIFICALLY STATED. 30.THE CONTRACTOR IS RESPONSIBLE FOR THE CONTROL OF SEDIMENT-LADEN RUNOFF RESULTING FROM STORM EVENTS DURING THE CONSTRUCTION PHASE.EROSION CONTROL FACILITIES SHOULD BE INSTALLED EARLY DURING THE CONSTRUCTION PERIOD SO AS TO PREVENT THE TRANSPORT OF SEDIMENT INTO SURFACE WATERS,RE-VEGETATION AND STABILIZATION OF DISTURBED AREAS SHOULD BE ACCOMPLISHED IMMEDIATELY TO REDUCE THE POTENTIAL FOR FURTHER SOIL EROSION. 31. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND COUNTY/CITY BEFORE COMMENCING WORK. 32.MINIMUM COVER OVER PIPES SHALL BE 36" UNLESS OTHERWISE INDICATED. 33.ALL UNDERGROUND UTILITY COMPANIES SHALL BE CONTACTED AT LEAST 48 HOURS PRIOR TO COMMENCING CONSTRUCTION. 34.IN ADDITION TO THE SPECIFICATIONS AND DETAILS PROVIDED FOR THIS CONTRACT,THE NASSAU COUNTY STANDARD DETAILS AND SPECIFICATIONS (LATEST REVISION) SHALL ALSO BE USED FOR ANY ITEMS NOT COVERED.IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A SET OF STANDARD DETAILS AND SPECIFICATIONS FROM NASSAU COUNTY. 35.BACKFILL MATERIAL SHALL BE COMPACTED TO 100% (2X) PER CITY OF FB REQUIREMENTS UNDER EXISTING AND PROPOSED ROADWAYS. 36.NO FIELD CHANGES OR DEVIATIONS FROM DESIGN TO BE MADE WITHOUT PRIOR APPROVAL OF THE ENGINEER. 37.STATIONING REFERS TO THE CENTERLINE OF THE ROADWAY EXCEPT AS NOTED ON PLANS.WHERE PAVEMENT SPLITS, THE STATIONING FOLLOWS THE INSIDE EDGE OF PAVEMENT UNTIL ROADWAY TRANSITIONS BACK TO THE TYPICAL ROADWAY SECTION 38.ALL CONSTRUCTION,MATERIAL,AND WORKMANSHIP ARE TO BE IN ACCORDANCE WITH CITY OF FB AND COUNTY STANDARDS.		1.WATER MAINS SHALL HAVE A MINIMUM OF 36" COVER UNDER PAVEMENT OR 30" COVER FROM FINISHED GRADE UNLESS OTHERWISE SHOWN.ALL WATER MAINS SHALL BE FLUSHED IN ACCORDANCE WITH,AND UNDER THE DIRECTION OF THE UTILITY COMPANY. 2.THRUST RESTRAINTS ARE REQUIRED IN ACCORDANCE WITH UTHE UTILITY COMPANY STANDARDS WHERE WATER MAINS ARE TERMINATED AND AT ALL BENDS AND TEES. 3.TIE RODS SHALL BE INSTALLED ON ALL VALVES LOCATED AT FITTINGS.ALL 10" AND LARGER VALVES AND LARGER SHALL REQUIRE (4) TIE RODS.MEGA LUG JOINT RESTRAINTS MAY BE USED IN LIEU OF THRUST BLOCKS OR TIE RODS. 4.UNLESS OTHERWISE NOTED,WATER MAINS ARE TO BE PVC DR18,DR-25,C-900 (BLUE),CLASS 150. 5.ALL WATER MAINS SHALL BE BACTERIOLOGICAL AND PRESSURE TESTED IN ACCORDANCE WITH AWWA C-600.NO CONNECTION TO EXISTING POTABLE WATER SYSTEM SHALL BE ALLOWED UNTIL ALL PROPOSED WATER MAINS HAVE BEEN PRESSURE TESTED, DISINFECTED,AND CLEARED FOR SERVICE.THE UTILITY COMPANY'S AUTHORIZED REPRESENTATIVE MUST BE NOTIFIED 48 HOURS PRIOR TO PERFORMING THE PRESSURE TEST AND MUST BE PRESENT. 6.THE CONTRACTOR SHALL AVOID SERVICE INTERRUPTIONS AND MAINTAIN ANY EXISTING WATER 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.BOIL WATER NOTICES SHALL BE DELIVERED IN ACCORDANCE WITH THE UTILITY COMPANY BOIL WATER NOTICE REQUIREMENTS. 7.ALL MAIN FLUSHING POINTS SHALL BE SAME SIZE AS MAIN UP TO 8 INCH WATER MAINS.FLUSHING POINTS FOR MAINS LARGER THAN 8 INCH SHALL BE REDUCED TO 8 INCH. 8.ALL WATER MAINS SHALL BE DISINFECTED USING LIQUID CHLORINE OR HYPOCHLORITES IN ACCORDANCE TO AWWA C651-86. WATER IN MAIN SHALL MAINTAIN A CHLORINE RESIDUAL OF 50 MG/L FOR A MINIMUM OF 24 HOURS.WATER MAIN SHALL NOT BE PLACED IN SERVICE UNTIL CLEARANCE HAS BEEN PROVIDED BY THE APPROPRIATE REGULATING AGENCY AND CITY OF FERNANDINA BEACH UTILITIES DEPARTMENT. 9.IF SOLVENT CONTAMINATION IS FOUND IN THE PIPE TRENCH,WORK SHALL BE STOPPED AND THE PROPER AUTHORITIES NOTIFIED.BASED ON APPROVAL OF THE PERMITTING AGENCY,DUCTILE IRON PIPE,FITTINGS,AND SOLVENT RESISTANT GASKET MATERIAL SUCH AS FLUOROCARBON SHALL BE USED IN THE CONTAMINATED AREA.THE DUCTILE IRON PIPE SHALL EXTEND AT LEAST 100 FEET BEYOND ANY SOLVENT NOTED,ANY CONTAMINATED SOIL THAT IS EXCAVATED SHALL BE PLACED ON AN IMPERMEABLE MAT AND COVERED WITH A WATER PROOF COVERING.THE PROPER AUTHORITIES WILL BE NOTIFIED AND THE CONTAMINATED SOIL HELD FOR PROPER DISPOSAL. 10.2" FLUSHING HYDRANTS SHALL BE INSTALLED AT ALL DEAD END LINES AND MAIN LINE STUB-OUTS. 11.A SEPARATE WATER SERVICE SHALL BE REQUIRED FOR EACH UNIT SERVED AND SHALL BE INSTALLED 3 FEET EITHER SIDE OF PROPERTY LINE.ALL WATER SERVICES SHALL BE MARKED WITH A "W" ETCHED ON THE CURB.ALL VALVES SHALL BE MARKED WITH A "V" ETCHED ON THE CURB. 12.ALL BACKFLOW PREVENTION ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH THE UTILITY COMPANY'S STANDARDS. 13.ALL BACKFLOW PREVENTION ASSEMBLIES SHALL BE INSTALLED AT THE CONSUMER'S METER OR AT THE PROPERTY LINE WHEN A METER IS NOT USED. 14.BACKFLOW PREVENTION ASSEMBLIES SHALL BE TESTED BY A CERTIFIED BACKFLOW TECHNICIAN.TEST RESULTS SHALL BE SUBMITTED TO AND APPROVED BY THE UTILITY COMPANY PRIOR TO ACCEPTANCE OF INSTALLATION. 15.MAXIMUM DEPTH ON WATER SERVICES TO METER TO BE 36".		COVER SHEET INDEX SHEET PREDEVELOPMENT PLAN OVERALL GEOMETRY PLAN DETAILED GEOMETRY PLAN POST-DEVELOPMENT DRAINAGE PLAN UTILITY PLAN TREE PRESERVATION PLAN LANDSCAPE PLAN MISCELLANEOUS DETAILS WATER DETAILS SEWER DETAILS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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						1.WHERE UNDERGROUND WATER MAINS AND HYDRANTS ARE TO BE PROVIDED, THEY SHALL BE INSTALLED,COMPLETED,AND IN SERVICE PRIOR TO COMMENCING CONSTRUCTION WORK ON ANY STRUCTURE.(NFPA 1,16.4.31.3,2009 EDITION) 2.CLEARANCES OF SEVEN AND ONE HALF FEET (7 FT-6 IN.) IN FRONT OF AND TO THE SIDES OF THE FIRE HYDRANT,WITH A FOUR FOOT CLEARANCE TO THE REAR OF THE HYDRANT.(NFPA 1,18.3.41,2009) 3.NEW FIRE HYDRANT(S) SHALL BE INSTALLED SO THAT POSITIONED NOT MORE THAN 7 FEET 6 INCHES AWAY FROM CURB OR BERM OF THE ROADWAY.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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---------- EXISTING VALVE ----- WM ----- EXISTING WATER LINE ----- SAN ----- EXISTING SANITARY SEWER  EXISTING FIRE HYDRANT ----- SAN ----- PROPOSED SANITARY SEWER ----- WM ----- PROPOSED WATER LINE  PROPOSED FIRE HYDRANT ----- EXISTING EDGE OF PAVEMENT ----- EXISTING PROPERTY LINE				 15.3 PROPOSED SPOT ELEVATION S-5 DRAINAGE STRUCTURE P-1 PIPE ----- 15.0 ----- PROPOSED CONTOUR ----- PROPOSED EDGE OF PAVEMENT ----- PROPOSED PROPERTY LINE ----- PROPOSED R.O.W. LINE ----- 16 ----- EXISTING CONTOUR		1.THE CONTRACTOR SHALL PROVIDE,TO THE ENGINEER OF RECORD ,A SCHEDULE OF INVERT ELEVATIONS OF ALL SANITARY MANHOLES PRIOR TO THE PLACEMENT OF THE LINE ROCK BASE COURSE,THIS SCHEDULE TO BE PROVIDED BY THE REGISTERED LAND SURVEYOR SUBMITTING THE "AS-BUILT" DRAWINGS FOR THIS PROJECT. 2.SANITARY SEWER SERVICES SHALL BE 6"PVC WITH A MINIMUM SLOPE OF 0.006 FEET PER FOOT AND SHALL BE TERMINATED AT THE RIGHT-OF-WAY LINE WITH A DEPTH OF 24" TO 48"FROM THE FINAL FINISHED GRADE OF THE DEVELOPED LOTS.DEPTHS GREATER THAN 48"FROM FINAL FINISHED GRADE SHALL BE READJUSTED BY THE DEVELOPER AT HIS COST. 3.GRAVITY SEWER TO BE CLEANED & TV TESTED BY DEVELOPER AT DEVELOPER'S EXPENSE 4.ALL MANHOLE FRAMES AND COVERS TO BE ADJUSTED TO FINAL FINISHED GRADE. 5.A SEPARATE SEWER SERVICE (6" MIN.)SHALL BE PROVIDED TO THE RIGHT-OF-WAY FOR EACH LOT BEING SERVED,AN "S"SHALL BE ETCHED INTO THE CURB DIRECTLY OVER EACH SERVICE LINE OR IN THE STREET SIDE OF A SIDEWALK IN LINE WITH THE CLEANOUT. 6.GRAVITY SEWER TO BE GREEN IN COLOR 7.NEW GRAVITY SEWER SYSTEM SHALL BE PLUGGED AT NEAREST EXISTING DOWNSTREAM MANHOLE AND SHALL NOT BE REMOVED WITHOUT AUTHORIZATION FROM THE UTILITY COMPANY,EXISTING MANHOLES TO BE CORED,BORED AND ARRANGEMENTS MADE TO BE REFURBISHED WITH COMPATIBLE MATERIALS IF THE EXISTING MANHOLE IS ALLOWED TO BE USED. 8.FINISHED FLOOR ELEVATIONS SHALL BE GREATER (HIGHER)THAN THE ELEVATION OF THE MANHOLE NEAREST THE SERVICE LATERAL IN ORDER TO AVOID A POTENTIAL BACKUP OF SEWERAGE IN THE HOUSE OR BUILDING. 9.ALL GRAVITY SEWER PIPE TO A 10 FOOT DEPTH OF COVER SHALL BE SDR-26 PVC PIPE (MINIMUM),GRAVITY SEWER PIPE WITH COVER OF 15 FEET (AND IN EASEMENTS)AND GREATER SHALL BE C900 -DR18,JOINT SHALL BE OF THE BELL AND SPIGOT TYPE AND MEET THE REQUIREMENTS OF THE PIPE REFERRED BEING USED. 10.WHEN A PROPERTY LINE CAN NOT BE DEFINED,THE SEWER CLEANOUT SHALL BE PLACED IN AN UNPAVED AREA AT A DISTANCE NO GREATER THAN 30 FEET FROM THE SEWER MAIN. 11.(NOTE: DR-18 TO BE USED ON SEWER LINE CROSSING WHERE STORM DRAIN IS WITHIN 24 INCHES ABOVE GRAVITY ALSO JOINT TO BE CENTERED AT CROSSING 12.ALL MANHOLES TO HAVE MINIMUM 24"HINGED RING AND COVER EAST JORDAN OR APPROVED EQUIVALENT 13.SEWER PLUGS USED DURING THE CONSTRUCTION OR CONNECTION TO A SYSTEM SHALL HAVE THE CONTRACTOR'S NAME PERMANENTLY STAMPED. 14.THE MANHOLE LINER SHALL BE SPECTRA SHIELD OR APPROVED EQUIVALENT. 15.IN ACCORDANCE WITH THE DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP)REQUIREMENTS,LEAKAGE TESTING SHALL BE PERFORMED ON ALL SEGMENTS OF THE SEWER SYSTEM,TESTING MAY INCLUDE APPROPRIATE WATER OR LOW PRESSURE AIR TESTING,TEST METHODS SHALL TAKE INTO CONSIDERATION THE RANGE IN GROUNDWATER ELEVATIONS DURING THE TEST AND ANTICIPATED DURING THE DESIGNED LIFE OF THE SEWER,NO LEAKAGE ALLOWED IN SYSTEM. 16.ALL FORCE MAIN PIPING TO BE DR-18 GREEN OR BROWN. 17.CONTACT JOHN MANDRICK,COFB UTILITY DIRECTOR AT (904-310-3420) FOR PRE-CONSTRUCTION AND COORDINATION MEETING PRIOR TO WORK COMMENCING.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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No.	Date	REVISION	



Sheet No.
PRE-1
1 of 12
Date
2/1/19
Project No.
10-08

Registered Professional

GENERAL NOTES:

PIN: 00-00-30-044A-0022-0000

LOT AREA: 6.67 ACRES

ZONING: RECREATION

FLUM: RECREATION

MAX BUILDING HEIGHT: 25'

MAX IMPERVIOUS AREA: 25% LOT AREA

6.67 ACRES X 0.25 = 1.67 ACRES

0.31 ACRES IMPERVIOUS AREA SHOWN
(INCLUDES 1/4 MILE SIDEWALK)

SETBACKS: NO REQUIRED SETBACKS

BUFFERS: NO REQUIRED BUFFERS

PARKING REQUIREMENTS:
1 SPACE PER 1,000 SF ACTIVE USE AREA
8,910 SF ACTIVE USE / 1,000 = 9 SPACES

LOT 1.9
P.L.N. = 00-00-30-044A-0019-0000
LANDS OF THE CITY OF
FERNANDINA BEACH

LOT 2.1
P.L.N. = 00-00-30-044A-0021-0000
CITY OF FERNANDINA BEACH

EXISTING STORM
WATER DITCH

SIMMONS COVE
PLAT BOOK 6, PAGES 140 & 141

632.50'(P)
634.12'(M)

NEW GRAVITY WALL
AND RAILING
(CONST. IN PROGRESS)

EXISTING STORM
PIPE TO BE
RELOCATED
(CONST. IN PROGRESS)

EXISTING HYDRANT
TO BE RELOCATED
(CONST. IN PROGRESS)

SITE BENCHMARK
NORTH FLANGE BOLT OF FIRE HYDRANT
ELEVATION = 15.35' N.A.V.D. 1988
(FIELD BOOK X-522, PAGE 30)

PROPOSED STORM DITCH
(CONST. IN PROGRESS)

PROPOSED 10' WIDE
ASPHALT S/W
(CONST. IN PROGRESS)

24' WIDE GRAVEL
DRIVING AISLE

EXISTING 10" WATER MAIN
TO BE RELOCATED
(CONST. IN PROGRESS)

SEMINOLE ROAD

LOT 5.9

LOT 6.0

LOT 6.1

LOT 6.2

LOT 6.3

LOT 6.4

LOT 6.5

LOT 6.6

LOT 6.7

LOT 6.8

LOT 6.9

LOT 7.0

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GENERAL NOTES:

PIN: 00-00-30-044A-0022-0000

LOT AREA: 6.67 ACRES

ZONING: RECREATION

FLUM: RECREATION

MAX BUILDING HEIGHT: 25'

MAX IMPERVIOUS AREA: 25% LOT AREA

$6.67 \text{ ACRES} \times 0.25 = 1.67 \text{ ACRES}$

0.31 ACRES IMPERVIOUS AREA SHOWN

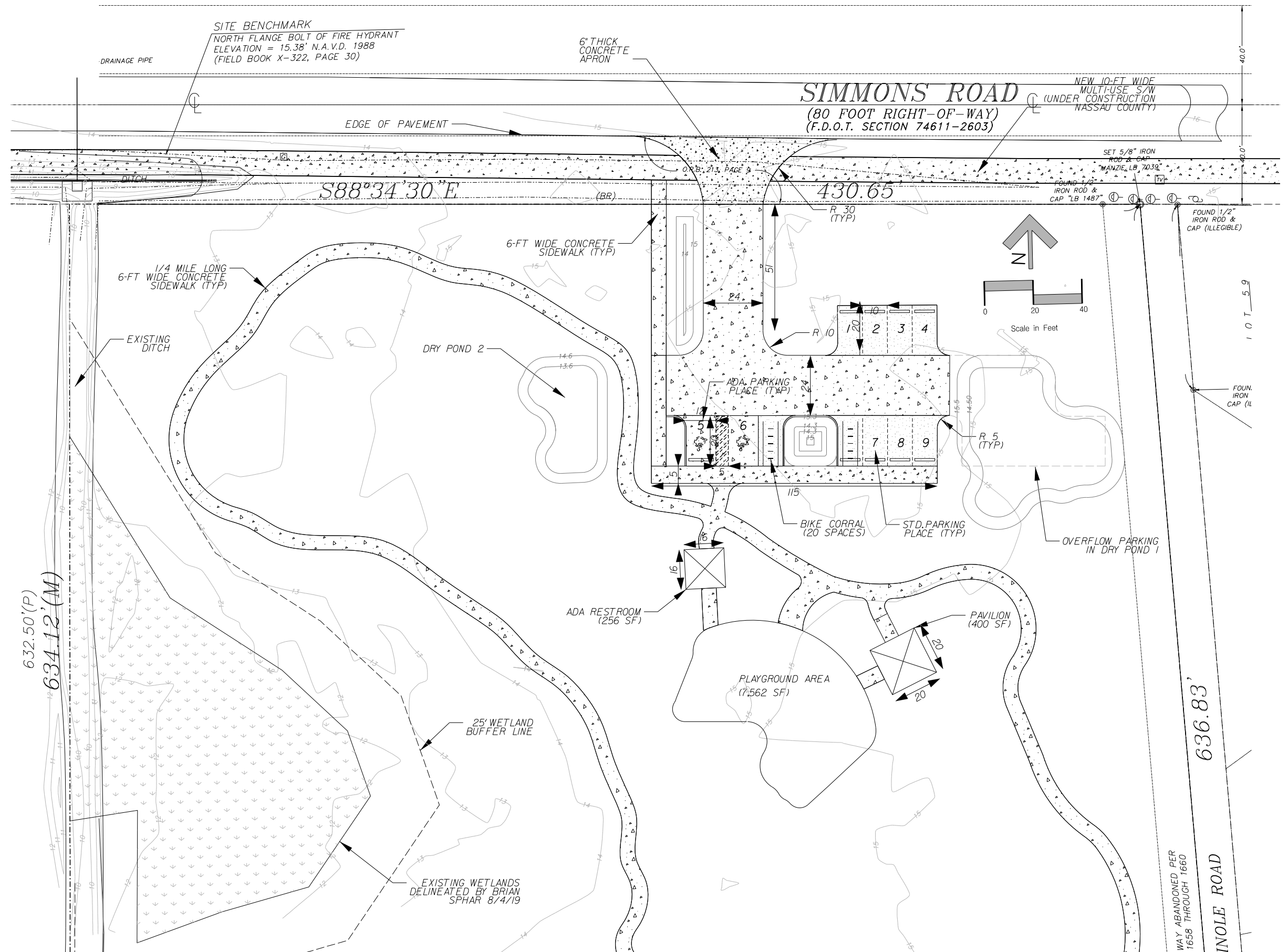
SETBACKS: NO REQUIRED SETBACKS

BUFFERS: NO REQUIRED BUFFERS

PARKING REQUIREMENTS:

1 SPACE PER 1,000 SF ACTIVE USE AREA

$8,910 \text{ SF ACTIVE USE} / 1,000 = 9 \text{ SPACES}$



LEGEND:

	<i>CONCRETE</i>
	<i>PERVIOUS CONCRETE</i>

10			
9			
8			
7			
6			
5			
4			
3			
2			
1			
LA	12/5/19	TRC RESUBMITTAL REVISED SITE PLAN	
LA	8/21/19	TRC SUBMITTAL	
No.	By	Date	REVISION

19-10-08

GENERAL NOTES:

PIN: 00-00-30-044A-0022-0000

LOT AREA: 6.67 ACRES

MAX IMPERVIOUS AREA: 25% LOT AREA

6.67 ACRES X 0.25 = 1.67 ACRES

0.31 ACRES IMPERVIOUS AREA SHOWN

PIPE TABLE						
NAME	FROM	TO	SIZE (in)	LENGTH (FT)	MATERIAL	
P-1	S-1	S-2	12	59	HDPE	
P-2	S-2	S-3	12	83	HDPE	
P-10	S-10	S-11	15	58	RCP	

STRUCTURE TABLE						
NAME	TYPE	TOP/INLET ELEV.	INVERT ELEVATION			
			N	S	E	W
S-1	2' x 2' YARD DRAIN	15.10	-	-	-	13.70
S-2	2' x 2' YARD DRAIN	15.00	-	-	13.50	13.50
S-3	M.E.S.	-	-	-	13.50	-
S-10	M.E.S.	-	-	-	14.40	-
S-11	M.E.S.	-	-	-	13.80	-

LEGEND:

CONCRETE

PERVIOUS CONCRETE

10				
9				
8				
7				
6				
5				
4				
3				
2				
1	LA	12/15/19	TRC RESUBMITTAL REVISED SITE PLAN	
0	LA	8/21/19	TRC SUBMITTAL	
No.	By	Date	REVISION	

Scale: 1" = 20'

Project Mgr: AG

Designed by: AG

Drawn by: LA

QA/QC: AG/LA

GILLETTE & ASSOCIATES, INC.
20 SOUTH 4TH STREET
FERNANDINA BEACH, FL 32034
CERTIFICATE OF AUTHORIZATION NO. 9332

ASA R GILLETTE, PE
FL PE NO. 56177

DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PREFERENCE. DRAWING IS REDUCED IF LESS THAN 22" x 34"



CITY OF FERNANDINA BEACH

SIMMONS ROAD PARK

DRAINAGE PLAN

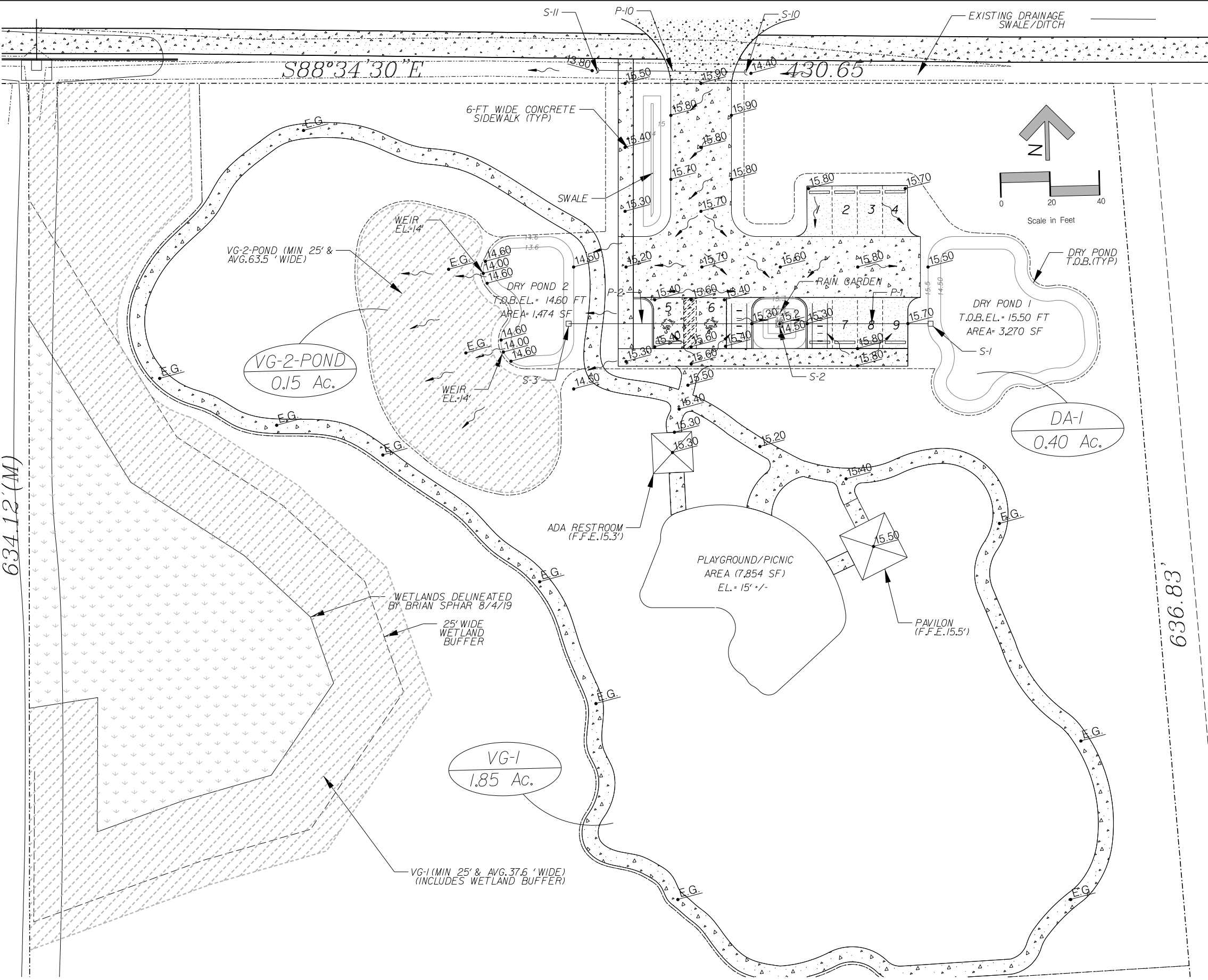
Registered Professional

Sheet No. DR-1

2 of 12

Issue Date 8/21/19

Project No. 19-10-08



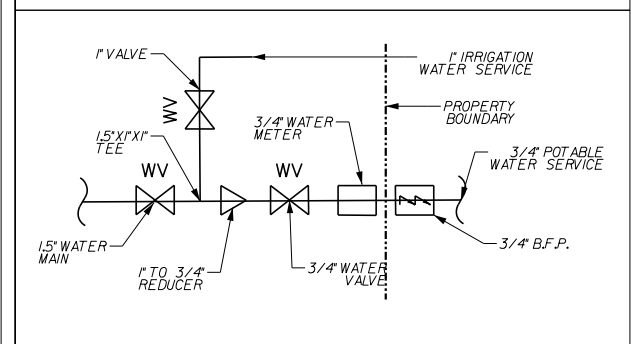
GENERAL NOTES:

PIN: 00-00-30-044A-0022-0000

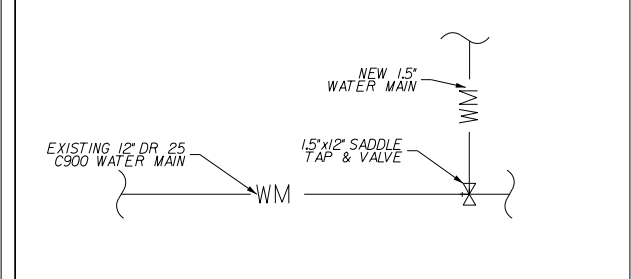
LOT AREA: 6.67 ACRES

ZONING: RECREATION

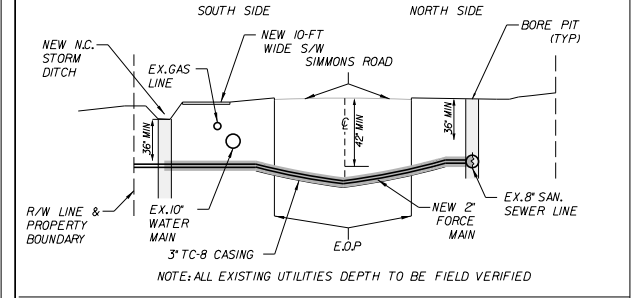
FLUM: RECREATION



WATER CONNECTION AT LOT



WATER CONNECTION AT MAIN



DIRECTIONAL DRILL DETAIL	
 The diagram illustrates a directional drilling process. It shows a horizontal line representing the ground surface. Below the surface, a vertical line represents the borehole. A curved line indicates the path of the drill bit, starting from a point on the surface and curving downwards and to the right. A small circle at the end of the curved line represents the drill bit. A label 'DIRECTIONAL DRILL DETAIL' is placed above the diagram.	

LEGEND:

 CONCRETE

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8			

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1	LA	12/5/19	TRC RESUBMITTAL REVISED SITE PLAN
0	LA	8/21/19	TRC SUBMITTAL
No.	By	Date	REVISION

Project Mgr:	AG
--------------	----

Designed by: AG

Drawn by: LA

QAQC: ASIA

[illegible]

NOTE: ALL UTILITY WORK IN SIMMONS ROAD ROW WILL REQUIRE PERMITTING WITH NASSAU COUNTY

NOTE: DUE TO ONGOING REDEVELOPMENT IN
NASSAU COUNTY ROW LOCATIONS AND
DEPTHS OF UTILITIES DEPICTED MAY NOT
BE ACCURATE. ALL UTILITIES WITHIN NASSAU
COUNTY ROW TO BE FIELD VERIFIED

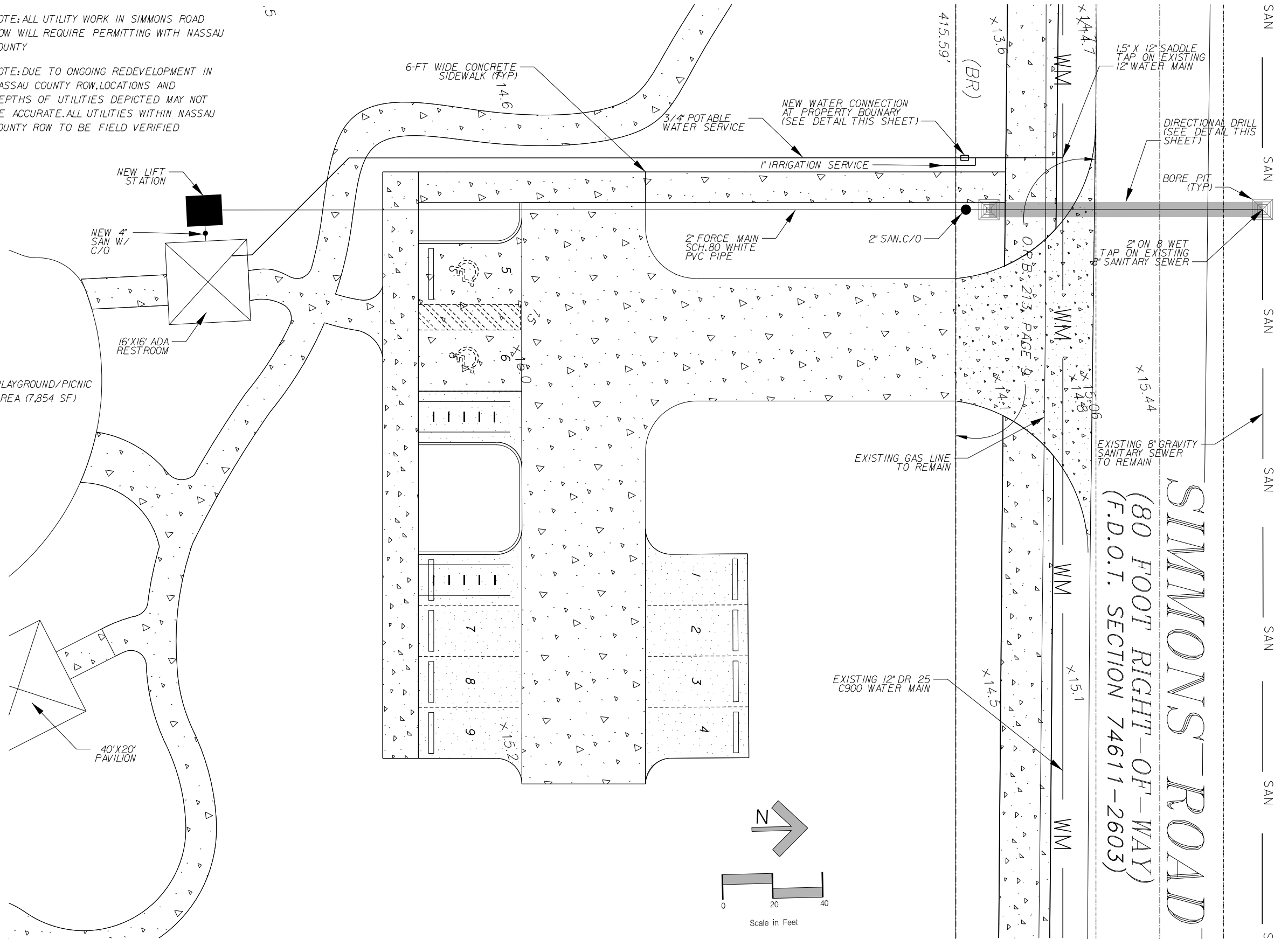
PLAYGROUND/PICNIC AREA (7,854 SF)	
--------------------------------------	--

STATION

SAW W/
C/O

REST ROOM

40'X20'
PAVILION



SIMMONS ROAD
(80 FOOT RIGHT-OF-WAY)
(F.D.O.T. SECTION 74611-2603)

12

ate
9

8

Registered Professional 19-10-08

CITY OF FERNANDINA
BEACH

SIMMONS ROAD PARK

UTILITY PLAN

TREE PROTECTION DETAIL

BARRIER TO BE PLACED AROUND TREE SHALL BE PLACED AROUND TREE PROTECTION ZONE AND BE CONSISTENT WITH SPECIFICATIONS DEFINED IN CHAPTER 4.05.14 OF THE FERNANDINA BEACH LAND DEVELOPMENT CODE.

TREE PROTECTION ZONE IS AT MINIMUM A CIRCULAR ZONE AROUND THE TREE TRUNK OF A RADIUS:

1) 6 FEET, IF THE DRIP LINE OF THE TREE IS LESS THAN 6 FEET FROM THE TRUNK OF THE TREE.

2) 6-20 FEET ENCOMPASSING THE FULL DRIP LINE OF THE TREE, IF THE DRIP LINE OF THE TREE IS BETWEEN 6 AND 20 FEET FROM THE TRUNK OF THE TREE.

3) 20 FEET, IF THE DRIP LINE OF THE TREE IS GREATER THAN 20 FEET FROM THE TRUNK OF THE TREE. 3" MULCH LAYER SHALL APPLIED TO THE REMAINING AREA BETWEEN THE TREE PROTECTION ZONE AND DRIP LINE.

2" X 2" X 4" WOODEN POSTS - 8' O.C. WITH A 2" X 4" TOP RAILING AND 3" WIDE TEMPORARY MESH WIRE, CHAIN-LINK, OR SIMILAR BARRIER ATTACHED TO POSTS.

NO PARKING OF HEAVY EQUIPMENT OR VEHICLES; STOCKPILING OF MATERIALS; DEPOSITION OF SOIL, SEDIMENT, OR MULCH; GRADING OR GRUBBING; EXCAVATION OR TRENCHING; CONSTRUCTION MATERIALS, DUMPING, BURIAL OR BURNING OF DEBRIS WITHIN THE ENTIRE CONSTRUCTION SITE; DUMPING PETROCHEMICALS, CHEMICALS, WASTEWATER, OR OTHER CONSTRUCTION WASTE. ALL HAZARDOUS MATERIALS TO BE STORED AT A MAXIMUM DISTANCES FROM ANY TREE PROTECTION ZONE.

NOTE TO CONTRACTOR :

REQUIRED TREE PROTECTION BARRICADES MUST BE INSPECTED BY THE CERTIFYING ARBORIST PRIOR TO ANY CONSTRUCT ACTIVITIES, AND REMAIN INTACT THROUGHOUT CONSTRUCTION. ENCROACHMENT INTO OR FAILURE TO MAINTAIN TREE BARRICADES WILL RESULT IN ENFORCEMENT ACTION WHICH MAY INCLUDE CITATIONS AND/OR BUILDING/CLEARING PERMIT REVOCATION AS PROVIDED BY COUNTY ORDINANCE.

MIN. 6" UP TO 20" DRIP LINE

MIN. 5' HIGH

PRESERVED UNDERSTORY

NOT TO SCALE

NOTE: ALL TREES TO BE RETAINED UNLESS OTHERWISE INDICATED

NOTE: CRITICAL ROOT ZONE IS SHOWN FOR ALL TREES IN THE IMMEDIATE VICINITY OF DEVELOPMENT.

NOTE: ALL TREES ASSUMED TO BE IN GOOD HEALTH.

HEALTH ASSESSMENT TO BE CONDUCTED BY C.O.F.B. ARBORIST

NOTE: ALL TREES WITHIN PLAYGROUND AREA TO BE PRESERVED UNTIL PLAYGROUND DESIGN IS FINALIZED

Simmons Road Park				
Total Tree Inventory				
Total Tree Count and Cumulative DBH				
Code	Species	Count	Stem	Dbh (in)
O	Oak	528		3,855
P	Pine	90		1,276
BAY	Red Bay	2		13
MPL	Red Maple	9		80
MAG	Magnolia	3		20
HLY	Holly	1		9
HB	Hackberry	1		8
		634		5,131

TREE MITIGATION LEGEND

× TREE TO BE REMOVED

--- TREE PROTECTION BARRIER

○ CRITICAL ROOT ZONE

10					
9					
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3					
2					
1	LA	12/5/19	TRC RESUBMITTAL REVISED SITE PLAN		
0	LA	8/21/19	TRC SUBMITTAL		
No.	By	Date	REVISION		

Simmons Road Park				
Tree Removal Inventory				
Tree ID	Species	DBH	Removed (Y or N)	DBH Removed
387A	P	7	Y	7
387B	P	10	Y	10
493	O	6	Y	6
496	O	6	Y	6
498	O	9	Y	9
503	O	7	Y	7
504	O	8	Y	8
505	O	6	Y	6
506	O	6	Y	6
507	O	6	Y	6
508	O	8	Y	7
509	O	7	Y	7
510	O	8	Y	8
511	O	6	Y	6
512	O	7	Y	7
519	O	6	Y	6
520	O	9	Y	9
521	O	7	Y	7
522	O	6	Y	6
523	O	6	Y	6
524	O	6	Y	6
547	O	6	Y	6
550	O	6	Y	6
551	O	6	Y	6
552	O	6	Y	6
606	O	9	Y	9
607	O	6	Y	6
608	O	6	Y	6
609	O	8	Y	8
610	O	6	Y	6
611	O	6	Y	6
612	O	6	Y	6
628	O	6	Y	6
629	O	6	Y	6
630	O	6	Y	6
633	O	6	Y	6
635	O	6	Y	6
636	O	6	Y	6
637	O	6	Y	6
638	O	6	Y	6
639	O	7	Y	7
640	O	6	Y	6
643	O	6	Y	6
644	O	6	Y	6
672	O	6	Y	6
673	O	6	Y	6
687	O	6	Y	6
690	O	9	Y	9
708	O	6	Y	6
709	O	6	Y	6
711	O	6	Y	6
714	O	7	Y	7
740	O	6	Y	6
741	O	8	Y	8
747	P	34	Y	34
749	O	6	Y	6
772	O	6	Y	6
773	O	6	Y	6
789	O	6	Y	6
790	O	7	Y	7
791	O	6	Y	6
798	O	7	Y	7
857	O	6	Y	6
657	O	7	Y	7
658	O	8	Y	8
659	O	7	Y	7
710	O	6	Y	6
501	O	7	Y	7
502	O	6	Y	6
Total		Total DBH Removed (in)		
		462		
Total		DBH (in)		
		5,131		
Removed		462		
Preserved (credits)		4,669		
Required DBH Replacement (25% Total)		1,283		
Difference (Replacement - Preserved)		-3,386		
New planted trees (2.5" per Tree)		20		
Total on site		4,699		
Total on Site w/ New Plantings		4,729		

10

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LA

12/5/19

TRC RESUBMITTAL REVISED SITE PLAN

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LA

8/21/19

TRC SUBMITTAL

No.

By

Date

REVISION

Scale: 1" = 30'

Project Mgr: AG

Designed by: AG

Drawn by: LA

QA/QC: AGLA

GILLETTE & ASSOCIATES, INC.
20 SOUTH 4TH STREET
FERNANDINA BEACH, FL 32034
CERTIFICATE OF AUTHORIZATION NO.9332

ASA R GILLETTE, PE
FL PE NO.56177

DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PREFERENCE. DRAWING IS REDUCED IF LESS THAN 22" X 34"

G&A

Gillette & Associates, Inc.

CITY OF FERNANDINA BEACH

SIMMONS ROAD PARK

TREE PROTECTION PLAN

Sheet No. LS-1

8 of 12

Issue Date 8/21/19

Project No. 19-10-08

Registered Professional

GENERAL NOTES:

PIN: 00-00-30-044A-0022-0000

ZONING: RECREATION

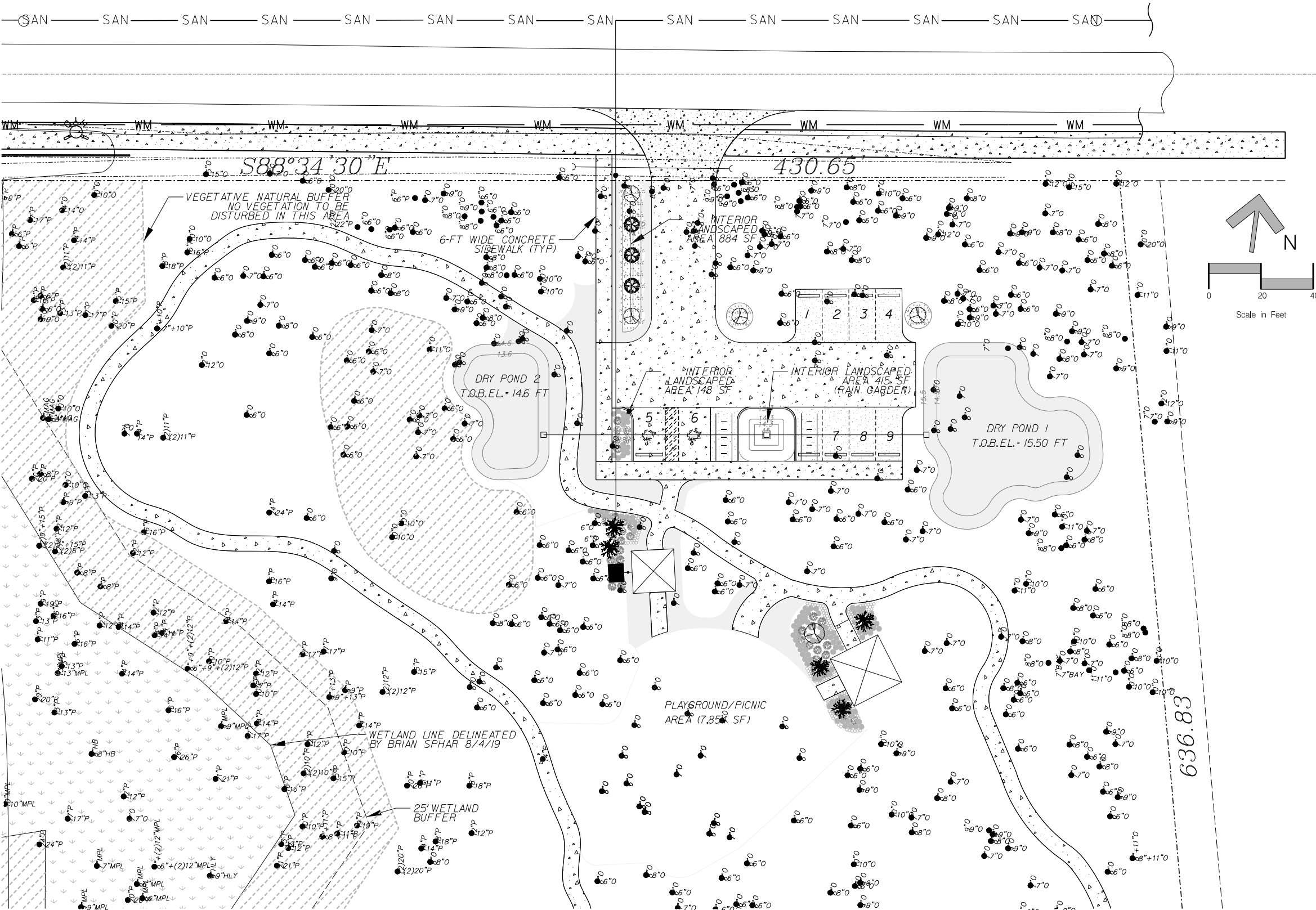
DEVELOPMENT SIZE: 1.82 ACRES

MINIMUM LANDSCAPED AREA: 20% DEVELOPMENT AREA
0.20 X 1.82 ACRES = 0.36 ACRES = 15,856 SF

MINIMUM SHADE TREE REQUIREMENTS: 1 ST / 1,500 SF
15,856 SF X (1 ST / 1,500 SF) = 11 ST

ALL SHADE TREE PLANTING REQUIREMENTS SATISFIED
THROUGH TREE PRESERVATION:
3,274" PRESERVED DBH
2.5" / NEW TREE PLANTING
3,274 / 2.5 = 1310 TREE CREDITS

INTERIOR PARKING AREA LANDSCAPE REQUIREMENTS:
10% VEHICULAR USE AREA
0.10 X 6,708 SF = 671 SF (1,447 SF SHOWN)



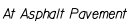
INTERNAL PLANTING PLANT/MATERIAL SCHEDULE				
QUANTITY	KEY	SPECIES	SIZE/REMARKS	
100	TD	TRIPSACDUM DASYLOIDES	1 GAL	
100	RL	DWARF FAKAHATCHIE, GRASS	24"X24" SPACING	
100	RL	RUDBECKIA LACINIATA	1P50	
38	EY	CUTLEAF CONEFLOWER	12"X12" SPACING	
38	EY	ERYNGIUM YUCCAIFOLIUM	1P50	
7	VO	RATTLESNAKE MASTER	12"X12" SPACING	
26	CA	VIBURNUM OBOVATUM	MIN 18" HT., 15" WD.	
3	AR	WALTER'S VIBURNUM	MIN 18" HT., 15" WD.	
4	CC	CALLIPARPA AMERICANA	MIN 18" HT., 15" WD.	
5	OV	AMERICAN BEAUTYBERRY	MIN 18" HT., 15" WD.	
2,910 SF	PN	ACER RUBRUM	MIN 18" HT., 15" WD.	
		RED MAPLE "SUMMER RED"	8" MIN HT., 5" COMBINED CAL.	
		CERCIS CANADENSIS	8" MIN HT., 25" CAL.	
		EASTERN REDBUD	LIVE OAK	
		QUERCUS VIRGINIANA	PASPALUM NOTATUM "PENSACOLA"	
		BAHIA GRASS "PENSACOLA"	SEEDING 1/2" DEEP	
			RATE 1.20 LBS/ACRE	

LEGEND:	
	CONCRETE
	PERVIOUS CONCRETE

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1	LA	12/15/19	TRC RESUBMITTAL REVISED SITE PLAN
0	LA	8/21/19	TRC SUBMITTAL
No.	By	Date	REVISION

Scale: 1" = 20'	
Project Mgr: AG	
Designed by: AG	
Drawn by: LA	
QA/QC: AG/LA	
GILLETTE & ASSOCIATES, INC. 20 SOUTH 4TH STREET FERNANDINA BEACH, FL 32034 CERTIFICATE OF AUTHORIZATION NO. 9332	
ASA R GILLETTE, PE FL PE NO. 56177	
DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PREFERENCE. DRAWING IS REDUCED IF LESS THAN 22" X 34"	





MISCELLANEOUS DETAILS

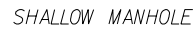
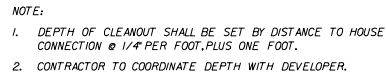
Registered Professional

Sheet No.
DT-1

10 of 10

Issue Date
8/21/19

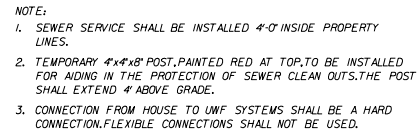
Project No.
19-10-08



CLASS "B"

1. ALL MANHOLES SHALL BE PRECAST CONCRETE AND CONFORM TO ASTM C-478 STANDARDS. MANHOLE CONES AND RISERS SHALL BE CONSTRUCTED OF 400 PSI TYPE II CEMENT WITH RIVER ROCK OR GRANITE AGGREGATE.
2. ALL PIPES SHALL BE CONNECTED TO THE MANHOLE USING A LO CK JOINT FLEXIBLE MANHOLE SLEEVE (ASTM C-923) OR APPROVED EQUAL.
3. THE EXTERIOR AND INTERIOR OF THE MANHOLE SHALL BE COATED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS WITH FABERITE AS MANUFACTURED BY BRIGGS BITUMINOUS COPOSITION COMPANY.
4. AN INSIDE PVC DROP MANHOLE TYPE "B" SHALL BE REQUIRED FOR MANHOLES WHICH HAVE A DISTANCE OF 18 INCHES OR GREATER BETWEEN INFLUENT PIPE INVERT AND EFFLUENT PIPE INVERT. ALL OTHER DROPS SHALL HAVE A SUDE CONSTRUCTED TO DIRECT THE FLOW INTO THE INVERT CHANNEL.
5. SEWER SERVICES SHALL BE CAST IRON IF $2\frac{1}{2}$ FEET OF GROUND COVER CAN NOT BE MAINTAINED OVER THE SERVICE LINE.
6. ALL DUCTILE IRON SEWER PIPE, WHERE SPECIFIED, SHALL BE CLASS SI AND COMPLY WITH ANSI/AWWA C100-2002 AND ANSI/AWWA C101/A201.5 DUCTILE IRON PIPE SHALL BE MANUFACTURED WITH THE FACTORY APPLIED INTERIOR POLYETHYLENE LINING IN ACCORDANCE WITH ANSI/AWWA D242.8.
7. THE MAXIMUM NUMBER OF DIPS IS ONE, 1-INCH DIP PER 135 LF. OF PIPE, NO MORE THAN ONE DIP PER 135 LF. OF PIPE. A DIP IS DEFINED AS A CHANGE IN ELEVATION OF .05' OR GREATER.

CLEANOUT



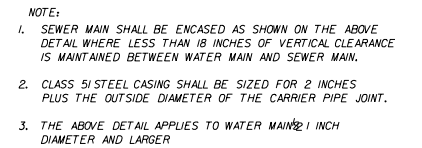
TYPICAL SEWER SERVICE



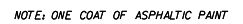
TYPE "B" MANHOLE



TYPE "A" MANHOLE



ENCASEMENT AT WATER LINE



MANHOLE COVER

\$\$\$date\$\$\$ \$\$\$\$time\$\$\$ \$\$\$FileName\$\$\$

10				Scale:	
9					
8				Project Mgr:	AG
7					GILLETTE & ASSOCIATES, INC.
6					20 SOUTH 4TH STREET
5				Designed by:	AG
4					FERNANDINA BEACH, FL 32034
3					CERTIFICATE OF AUTHORIZATION NO.9332
2				Drawn by:	LA
1					ASA R GILLETTE, PE
	LA	12/5/19	TRC RESUBMITTAL REVISED SITE PLAN		FL PE NO.56177
	LA	8/21/19	TRC SUBMITTAL	QAQC:	AGLA
No.	By	Date	REVISION	DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PREFERENCE. DRAWING IS REDUCED IF LESS THAN 22" x 34"	



CITY OF FERNANDINA
BEACH

SIMMONS ROAD PARK

SEWER DETAILS

Registered Professional

Sheet No.
DT-3

12 of 12

Ex Date
21/19

Project No.
10-08

REVIEW SET
NOT FOR CONSTRUCTION

ENGINEERING PLANS

FOR

CRAWFORD JEWELERS/RETAIL BUILDING

FOR

GARY CRAWFORD

CRAWFORD JEWELERS/RETAIL BUILDING

FOR

GARY CRAWFORD

RELEASED FOR CONSTRUCTION BY _____

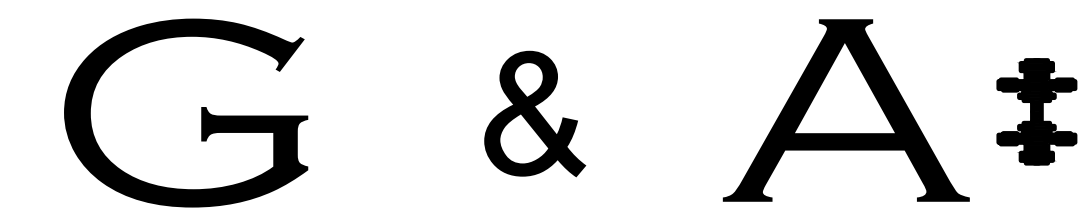
GILLETTE & ASSOCIATES, INC.

CIVIL & ENVIRONMENTAL ENGINEERING
MECHANICAL & STRUCTURAL ENGINEERING
PERMITTING & CONSTRUCTION MANAGEMENT

20 SOUTH 4TH STREET AMELIA ISLAND, FLORIDA 32034
PHONE: 904/261-8819

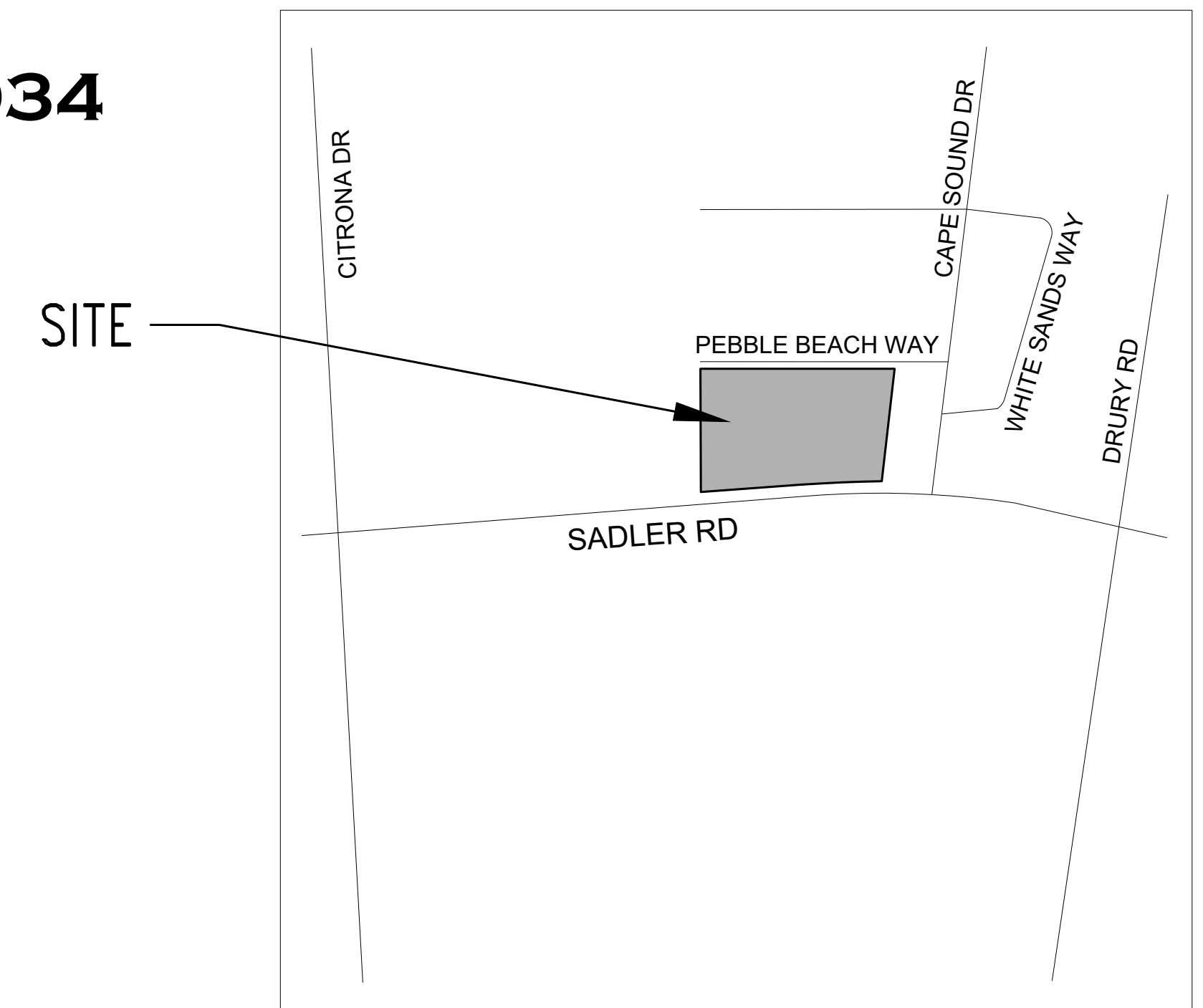
PERMITTING AGENCIES

CITY OF FERNANDINA BEACH: 904-310-3421
ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
NASSAU COUNTY (RIGHT OF WAY)



ISSUE DATE: DECEMBER 18, 2019

SITE LOCATION MAP



1. 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 REGULATIONS AND THE FLORIDA TRENCH SAFETY ACT MUST BE INCLUDED IN THE CONTRACTOR'S PRICE FOR PERFORMING THE WORK.

2. 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 SUBSURFACE, 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 URGED TO TAKE COLOR PHOTOGRAPHS ALONG THE ROUTE OF THIS PROJECT TO RECORD EXISTING CONDITIONS PRIOR TO CONSTRUCTION, AND TO AID IN RESOLVING POSSIBLE FUTURE COMPLAINTS THAT MAY OCCUR DUE TO CONSTRUCTION OF THE PROJECT. ALL COSTS ASSOCIATED WITH PRELIMINARY INVESTIGATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

3. ALL IMPROVEMENTS SHOWN ARE TO BE WARRANTED BY THE CONTRACTOR TO THE DEVELOPER.

4. ELEVATIONS ARE BASED ON NAVD DATUM OF 1988.

5. TOPOGRAPHIC AND BOUNDARY INFORMATION WAS PROVIDED BY: MANZIE & DRAKE LAND SURVEYING (904-491-5700).

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY BUILDING, RIGHT-OF-WAY PERMITS NOT PROVIDED AND INSURANCE REQUIRED FOR THE PROJECT.

7. THE CONTRACTOR SHALL COORDINATE THE WORK WITHIN CITY, COUNTY OR STATE RIGHT-OF-WAY WITH THE PROPER AGENCIES FOR MAINTENANCE OF TRAFFIC AND METHOD OF CONSTRUCTION & REPAIR.

8. THE CONTRACTOR SHALL ADVISE THE OWNER'S AUTHORIZED REPRESENTATIVE OF PLANNED WORK SCHEDULE. THE CONTRACTOR SHALL COORDINATE THEIR CONSTRUCTION WITH ALL OTHER CONTRACTORS. IN THE EVENT OF ANY CONFLICT WHATSOEVER, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD, AND THE OWNER PRIOR TO PROCEEDING WITH CONSTRUCTION.

9. "AS-BUILT" DRAWINGS - AS-BUILTS 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.

10. "AS-BUILT" RECORD DATA AND INFORMATION SHALL BE MAINTAINED BY THE CONTRACTOR. RECORD DRAWINGS SHALL BE SUPPLIED TO THE ENGINEER.

11. THE 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.

12. ALL DEBRIS RESULTING FROM ALL ACTIVITIES SHALL BE DISPOSED OF OFF-SITE BY CONTRACTOR ON A DAILY BASIS.

13. ALL EXCESS SUITABLE AND UNSUITABLE MATERIALS SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR UNLESS DIRECTED OTHERWISE BY THE ENGINEER.

14. ALL EXISTING TREES LISTED TO REMAIN SHALL BE PRESERVED AND PROTECTED.

15. THE LOCATION OF ALL EXISTING UTILITIES, STRUCTURES, AND IMPROVEMENTS ON THE DRAWINGS ARE BASED ON LIMITED INFORMATION AND MAY NOT HAVE BEEN FIELD 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 ACTUAL FIELD LOCATIONS, THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER OF THE DISCREPANCY. THE DISCREPANCY SHOULD BE RESOLVED PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING IN AREAS NEAR EXISTING UTILITY IMPROVEMENTS AND SHALL BE RESPONSIBLE FOR REPAIRS OR PAYMENTS 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 THEY SHALL CONNECT.

16. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER ON ALL MATERIALS, FOR REVIEW AND APPROVAL, PRIOR TO PURCHASE OR CONSTRUCTION OF ANY UTILITY OR STRUCTURE.

17A. UNSUITABLE MATERIALS UNDER WATER, SEWER, OR STORM PIPE AND/OR STRUCTURES SHALL BE REMOVED AND REPLACED WITH SELECTED BACKFILL COMPACTED TO 98% OF IT'S MAXIMUM DENSITY AS DETERMINED BY THE MODIFIED PROCTOR TEST (ASTM D1557).

17B. ALL FINISH FLOORS SHOWN ON THE PLANS ARE MINIMUM ELEVATIONS

18. ALL WATER & SEWER CONSTRUCTION SHALL BE ACCOMPLISHED BY AN UNDERGROUND UTILITY CONTRACTOR LICENSED UNDER THE PROVISIONS OF CHAPTER 489 FLORIDA STATUTES.

19. WHEN DEWATERING CAPACITY REQUIRES A PERMIT (CUP), IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE PERMIT THROUGH THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT.

20. WATER MAINS SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED SANITARY HAZARD. THE DISTANCE SHALL BE MEASURED EDGE TO EDGE. WHERE PARALLEL WATER AND SEWER MAINS HAVE LESS THAN 10 FOOT HORIZONTAL SEPARATION, 20 FOOT LENGTHS OF C900 (DR18) WATER QUALITY PIPE SHALL BE USED WITH THE JOINTS STAGGERED AT 10 FOOT INTERVALS. THE PIPES SHALL BE PLACED IN SEPARATE TRENCHES WITH THE WATER MAIN AT LEAST 18 INCHES ABOVE THE SEWER.

21. WATER MAINS CROSSING SANITARY HAZARDS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF THE SEWER MAIN. WHERE WATER AND SEWER MAINS CROSS WITH BETWEEN 18 INCHES AND 6 INCHES OF VERTICAL CLEARANCE, A 20 FOOT SECTION OF C900 (DR18) WATER QUALITY PIPE SHALL BE CENTERED ON THE POINT OF THE CROSSING. THE CONTRACTOR SHALL FIELD VERIFY THE VERTICAL SEPARATION. THE MINIMUM SEPARATION BETWEEN WATER AND SEWER PIPES IS TO BE 6 INCHES OUTSIDE DIAMETER TO OUTSIDE DIAMETER.

22. NO WATER MAIN PIPE SHALL PASS THROUGH OR COME IN CONTACT WITH ANY PART OF A SEWER MANHOLE.

23. BLANK

24. TRACER WIRE SHALL BE PROVIDED ON ALL WATER MAINS AND FORCE MAINS. TRACER WIRE SHALL BE #10 UF SOLID COPPER WIRE, COATED, AND SUITABLE FOR BURIAL. COATING SHALL BE BLUE FOR WATER AND GREEN FOR SEWER MAIN CONNECTIONS. WIRE SHALL BE ATTACHED DIRECTLY TO TOP OF PIPE AND BROUGHT INTO EACH VALVE BOX AND COILED TO ALLOW FOR EASY ACCESS AND EXTENSION ABOVE FINISHED GRADE FOR ATTACHMENT OF LOCATING EQUIPMENT.

25. ALL PIPE LENGTHS ARE APPROXIMATE DIMENSIONS. ALL DRAINAGE STRUCTURES SHALL BE CONSTRUCTED TO CONFORM WITH TYPICAL SECTIONS AND DETAILS AS SHOWN ON THE MISCELLANEOUS DETAILS SHEET AND IN ACCORDANCE WITH THE SPECIFICATIONS.

26. ALL UNDERGROUND UTILITIES MUST BE INSTALLED PRIOR TO PREPARATION OF SUBGRADE FOR PAVEMENT.

27. GRADES SHOWN ON PLANS ARE EDGE OF PAVEMENT FINISHED GRADES UNLESS OTHERWISE NOTED.

28. SHOULD THE SURFACE OR SUBSURFACE CONDITIONS VARY FROM WHAT IS SHOWN ON THE PLANS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER.

29. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE SEEDED AND MULCHED UNLESS OTHERWISE SPECIFICALLY STATED. ALL DISTURBED AREAS WITHIN THE NASSAU COUNTY RIGHT OF WAY SHALL BE COVERED WITH BERMUDA SOD.

30. THE CONTRACTOR IS RESPONSIBLE FOR THE CONTROL OF SEDIMENT-LADEN RUNOFF RESULTING FROM STORM EVENTS DURING THE CONSTRUCTION PHASE. EROSION CONTROL FACILITIES SHOULD BE INSTALLED EARLY DURING THE CONSTRUCTION PERIOD SO AS TO PREVENT THE TRANSPORT OF SEDIMENT INTO SURFACE WATERS. RE-VEGETATION AND STABILIZATION OF DISTURBED AREAS SHOULD BE ACCOMPLISHED IMMEDIATELY TO REDUCE THE POTENTIAL FOR FURTHER SOIL EROSION.

31. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND COUNTY/CITY BEFORE COMMENCING WORK.

32. MINIMUM COVER OVER PIPES SHALL BE 36" UNLESS OTHERWISE INDICATED.

33. ALL UNDERGROUND UTILITY COMPANIES SHALL BE CONTACTED AT LEAST 48 HOURS PRIOR TO COMMENCING CONSTRUCTION.

34. IN ADDITION TO THE SPECIFICATIONS AND DETAILS PROVIDED FOR THIS CONTRACT, THE NASSAU COUNTY STANDARD DETAILS AND SPECIFICATIONS (LATEST REVISION) SHALL ALSO BE USED FOR ANY ITEMS NOT COVERED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A SET OF STANDARD DETAILS AND SPECIFICATIONS FROM NASSAU COUNTY.

35. BACKFILL MATERIAL SHALL BE COMPACTED TO 100% (2%) PER CITY OF FB REQUIREMENTS UNDER EXISTING AND PROPOSED ROADWAYS.

36. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN TO BE MADE WITHOUT PRIOR APPROVAL OF THE ENGINEER.

37. STATIONING REFERS TO THE CENTERLINE OF THE ROADWAY EXCEPT AS NOTED ON PLANS. WHERE PAVEMENT SPLITS, THE STATIONING FOLLOWS THE INSIDE EDGE OF PAVEMENT UNTIL ROADWAY TRANSITIONS BACK TO THE TYPICAL ROADWAY SECTION

38. ALL CONSTRUCTION, MATERIAL, AND WORKMANSHIP ARE TO BE IN ACCORDANCE WITH CITY OF FB AND COUNTY STANDARDS

1. WATER MAINS SHALL HAVE A MINIMUM OF 36" COVER UNDER PAVEMENT OR 30" COVER FROM FINISHED GRADE UNLESS OTHERWISE SHOWN. ALL WATER MAINS SHALL BE FLUSHED IN ACCORDANCE WITH, AND UNDER THE DIRECTION OF THE UTILITY COMPANY.

2. THRUST RESTRAINTS ARE REQUIRED IN ACCORDANCE WITH THE UTILITY COMPANY STANDARDS WHERE WATER MAINS ARE TERMINATED AND AT ALL BENDS AND TEES.

3. TIE RODS SHALL BE INSTALLED ON ALL VALVES LOCATED AT FITTINGS. ALL 10" AND LARGER VALVES AND LARGER SHALL REQUIRE (4) TIE RODS. MEGA LUG JOINT RESTRAINTS MAY BE USED IN LIEU OF THRUST BLOCKS OR TIE RODS.

4. UNLESS OTHERWISE NOTED, WATER MAINS ARE TO BE PVC DR18, DR-25, C-900 (BLUE), CLASS 150.

5. ALL WATER MAINS SHALL BE BACTERIOLOGICAL AND PRESSURE TESTED IN ACCORDANCE WITH AWWA C-600. NO CONNECTION TO EXISTING POTABLE WATER SYSTEM SHALL BE ALLOWED UNTIL ALL PROPOSED WATER MAINS HAVE BEEN PRESSURE TESTED, DISINFECTED, AND CLEARED FOR SERVICE. THE UTILITY COMPANY'S AUTHORIZED REPRESENTATIVE MUST BE NOTIFIED 48 HOURS PRIOR TO PERFORMING THE PRESSURE TEST AND MUST BE PRESENT.

6. THE CONTRACTOR SHALL AVOID SERVICE INTERRUPTIONS AND MAINTAIN ANY EXISTING WATER 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. BOIL WATER NOTICES SHALL BE DELIVERED IN ACCORDANCE WITH THE UTILITY COMPANY BOIL WATER NOTICE REQUIREMENTS.

7. ALL MAIN FLUSHING POINTS SHALL BE SAME SIZE AS MAIN UP TO 8 INCH WATER MAINS. FLUSHING POINTS FOR MAINS LARGER THAN 8 INCH SHALL BE REDUCED TO 8 INCH.

8. ALL WATER MAINS SHALL BE DISINFECTED USING LIQUID CHLORINE OR HYPOCHLORITES IN ACCORDANCE TO AWWA C651-88. WATER IN MAIN SHALL MAINTAIN A CHLORINE RESIDUAL OF 50 MG/L FOR A MINIMUM OF 24 HOURS. WATER MAIN SHALL NOT BE PLACED IN SERVICE UNTIL CLEARANCE HAS BEEN PROVIDED BY THE APPROPRIATE REGULATING AGENCY AND CITY OFFERNANDINA BEACH UTILITIES DEPARTMENT.

9. IF SOLVENT CONTAMINATION IS FOUND IN THE PIPE TRENCH, WORK SHALL BE STOPPED AND THE PROPER AUTHORITIES NOTIFIED. BASED ON APPROVAL OF THE PERMITTING AGENCY, DUCTILE IRON PIPE, FITTINGS, AND SOLVENT RESISTANT GASKET MATERIAL SUCH AS FLUOROCARBON SHALL BE USED IN THE CONTAMINATED AREA. THE DUCTILE IRON PIPE SHALL EXTEND AT LEAST 100 FEET BEYOND ANY SOLVENT NOTED. ANY CONTAMINATED SOIL THAT IS EXCAVATED SHALL BE PLACED ON AN IMPERMEABLE MAT AND COVERED WITH A WATER PROOF COVERING. THE PROPER AUTHORITIES WILL BE NOTIFIED AND THE CONTAMINATED SOIL HELD FOR PROPER DISPOSAL.

10. 2" FLUSHING HYDRANTS SHALL BE INSTALLED AT ALL DEAD END LINES AND MAIN LINE STUB-OUTS.

11. A SEPARATE WATER SERVICE SHALL BE REQUIRED FOR EACH UNIT SERVED AND SHALL BE INSTALLED 3 FEET EITHER SIDE OF PROPERTY LINE. ALL WATER SERVICES SHALL BE MARKED WITH A "W" ETCHED ON THE CURB. ALL VALVES SHALL BE MARKED WITH A "V" ETCHED ON THE CURB.

12. ALL BACKFLOW PREVENTION ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH THE UTILITY COMPANY'S STANDARDS.

13. ALL BACKFLOW PREVENTION ASSEMBLIES SHALL BE INSTALLED AT THE CONSUMER'S METER OR AT THE PROPERTY LINE WHEN A METER IS NOT USED.

14. BACKFLOW PREVENTION ASSEMBLIES SHALL BE TESTED BY A CERTIFIED BACKFLOW TECHNICIAN. TEST RESULTS SHALL BE SUBMITTED TO AND APPROVED BY THE UTILITY COMPANY PRIOR TO ACCEPTANCE OF INSTALLATION.

15. MAXIMUM DEPTH ON WATER SERVICES TO METER TO BE 36".

FIRE NOTES

1. WHERE UNDERGROUND WATER MAINS AND HYDRANTS ARE TO BE PROVIDED, THEY SHALL BE INSTALLED COMPLETED MAIN SERVICE PRIOR TO COMMENCING CONSTRUCTION WORK ON ANY STRUCTURE. (NFPA 1, 16.4.3.1.3, 2009 EDITION)

2. CLEARANCES OF SEVEN AND ONE HALF FEET (7 FT-6 IN.) IN FRONT OF AND TO THE SIDES OF THE FIRE HYDRANT, WITH A FOUR FOOT CLEARANCE TO THE REAR OF THE HYDRANT. (NFPA 1, 18.3.4.1, 2009)

3. NEW FIRE HYDRANT(S) SHALL BE INSTALLED SO THAT POSITIONED NOT MORE THAN 7 FEET 6 INCHES AWAY FROM CURB OR BERM OF THE ROADWAY.

-----<3>-----

EXISTING VALVE

WM

EXISTING WATER LINE

SAN

EXISTING SANITARY SEWER

EXISTING FIRE HYDRANT

SAN

PROPOSED SANITARY SEWER

WM

PROPOSED WATER LINE

PROPOSED FIRE HYDRANT

EXISTING EDGE OF PAVEMENT

EXISTING PROPERTY LINE

15.3

PROPOSED SPOT ELEVATION

S-5

DRAINAGE STRUCTURE

P-1

PIPE

15.0

PROPOSED CONTOUR

PROPOSED EDGE OF PAVEMENT

PROPOSED PROPERTY LINE

PROPOSED R.O.W. LINE

16

EXISTING CONTOUR

1. THE CONTRACTOR SHALL PROVIDE, TO THE ENGINEER OF RECORD, A SCHEDULE OF INVERT ELEVATIONS OF ALL SANITARY MANHOLES PRIOR TO THE PLACEMENT OF THE LIME ROCK BASE COURSE. THIS SCHEDULE TO BE PROVIDED BY THE REGISTERED LAND SURVEYOR SUBMITTING THE "AS-BUILT" DRAWINGS FOR THIS PROJECT.

2. SANITARY SEWER SERVICES SHALL BE 6"PVC WITH A MINIMUM SLOPE OF 0.006 FEET PER FOOT AND SHALL BE TERMINATED AT THE RIGHT-OF-WAY LINE WITH A DEPTH OF 24" TO 48" FROM THE FINAL FINISHED GRADE OF THE DEVELOPED LOTS. DEPTHS GREATER THAN 48" FROM FINAL FINISHED GRADE SHALL BE READJUSTED BY THE DEVELOPER AT HIS COST.

3. GRAVITY SEWER TO BE CLEANED & TV TESTED BY DEVELOPER AT DEVELOPER'S EXPENSE

4. ALL MANHOLE FRAMES AND COVERS TO BE ADJUSTED TO FINAL FINISHED GRADE.

5. A SEPARATE SEWER SERVICE (6" MIN.) SHALL BE PROVIDED TO THE RIGHT-OF-WAY FOR EACH LOT BEING SERVED. AN "S" SHALL BE ETCHED INTO THE CURB DIRECTLY OVER EACH SERVICE LINE OR IN THE STREET SIDE OF A SIDEWALK IN LINE WITH THE CLEANOUT.

6. GRAVITY SEWER TO BE GREEN IN COLOR

7. NEW GRAVITY SEWER SYSTEM SHALL BE PLUGGED AT NEAREST EXISTING DOWNSTREAM MANHOLE AND SHALL NOT BE REMOVED WITHOUT AUTHORIZATION FROM THE UTILITY COMPANY. EXISTING MANHOLES TO BE COREBORED AND ARRANGEMENTS MADE TO BE REFURBISHED WITH COMPATIBLE MATERIALS IF THE EXISTING MANHOLE IS ALLOWED TO BE USED.

8. FINISHED FLOOR ELEVATIONS SHALL BE GREATER (HIGHER) THAN THE ELEVATION OF THE MANHOLE NEAREST THE SERVICE LATERAL IN ORDER TO AVOID A POTENTIAL BACKUP OF SEWAGE IN THE HOUSE OR BUILDING.

9. ALL GRAVITY SEWER PIPE TO A 10 FOOT DEPTH OF COVER SHALL BE SDR-26 PVC PIPE (MINIMUM). GRAVITY SEWER PIPE WITH COVER OF 15 FEET (AND IN EASEMENTS) AND GREATER SHALL BE C900 - DR18. JOINT SHALL BE OF THE BELL AND SPIGOT TYPE AND MEET THE REQUIREMENTS OF THE PIPE REFERRED BEING USED.

10. WHEN A PROPERTY LINE CAN NOT BE DEFINED, THE SEWER CLEANOUT SHALL BE PLACED IN AN UNPAVED AREA AT A DISTANCE NO GREATER THAN 30 FEET FROM THE SEWER MAIN.

11. NOTE: DR-18 TO BE USED ON SEWER LINE CROSSING WHERE STORM DRAIN IS WITHIN 24 INCHES ABOVE GRAVITY ALSO JOINT TO BE CENTERED AT CROSSING

12. ALL MANHOLES TO HAVE MINIMUM 24" HINGED RING AND COVER EAST JORDAN OR APPROVED EQUIVALENT

13. SEWER PLUGS USED DURING THE CONSTRUCTION OR CONNECTION TO A SYSTEM SHALL HAVE THE CONTRACTOR'S NAME PERMANENTLY STAMPED.

14. THE MANHOLE LINER SHALL BE SPECTRA SHIELD OR APPROVED EQUIVALENT.

15. IN ACCORDANCE WITH THE DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP) REQUIREMENTS, LEAKAGE TESTING SHALL BE PERFORMED ON ALL SEGMENTS OF THE SEWER SYSTEM. TESTING MAY INCLUDE APPROPRIATE WATER OR LOW PRESSURE AIR TESTING. TEST METHODS SHALL TAKE INTO CONSIDERATION THE RANGE IN GROUNDWATER ELEVATIONS DURING THE TEST AND ANTICIPATED DURING THE DESIGNED LIFE OF THE SEWER. NO LEAKAGE ALLOWED IN SYSTEM.

16. ALL FORCE MAIN PIPING TO BE DR-18 GREEN OR BROWN.

17. CONTACT JOHN MANDRICK, COFB UTILITY DIRECTOR AT (904-310-3420) FOR PRE-CONSTRUCTION AND COORDINATION MEETING PRIOR TO WORK COMMENCING.

INDEX

PAGE #	SHEET	DESCRIPTION
1	CVR	COVER SHEET
2	IN-1	INDEX SHEET
3	PRE-1	PREDEVELOPMENT PLAN
4	GE-1	GEOMETRY PLAN
5	DR-1	DRAINAGE PLAN
6	LS-1	TREE MITIGATION PLAN
7	LS-2	LANDSCAPE PLAN
8	DT-1	MISCELLANEOUS DETAILS
9	DT-2	WATER DETAILS
10	DT-3	SEWER DETAILS

FIRE NOTES

1. WHERE UNDERGROUND WATER MAINS AND HYDRANTS ARE TO BE PROVIDED, THEY SHALL BE INSTALLED COMPLETED MAIN SERVICE PRIOR TO COMMENCING CONSTRUCTION WORK ON ANY STRUCTURE. (NFPA 1, 16.4.3.1.3, 2009 EDITION)

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CRAWFORD JEWELERS/RETAIL

PRELIMINARY BINDING SITE PLAN

SADLER ROAD

FERNANDINA BEACH, FLORIDA

GILLETTE & ASSOCIATES, INC.

CIVIL, ENVIRONMENTAL, MECHANICAL, & STRUCTURAL ENGINEERING

CERTIFICATE OF AUTHORIZATION NO. 9332

ASA R. GILLETTE, P.E. * FL PE NO. 56177

DATE: 12/18/19

SCALE: NONE

DRAWING IS REDUCED IF LESS THAN 22" x 34"

INDEX SHEET

IN-1

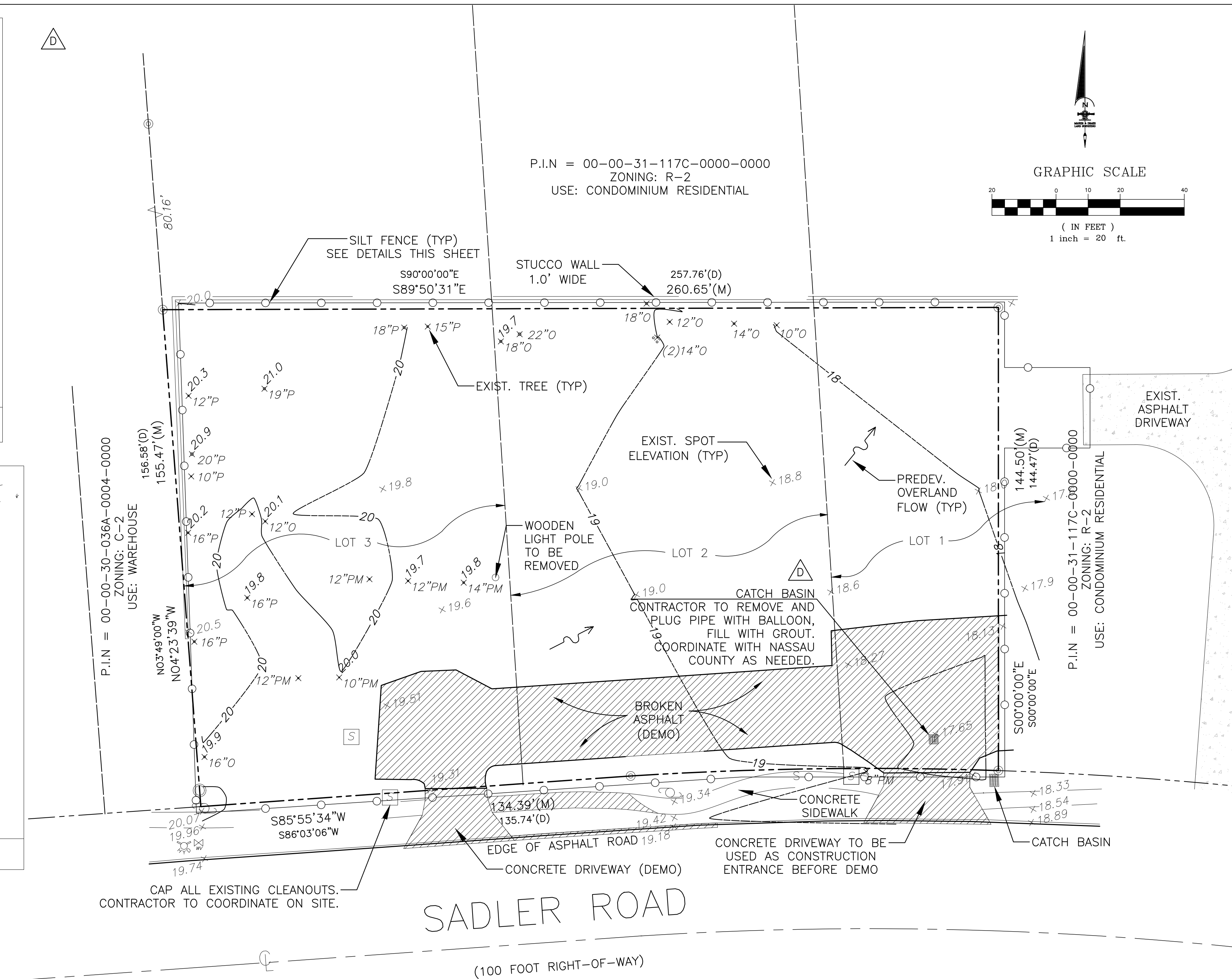
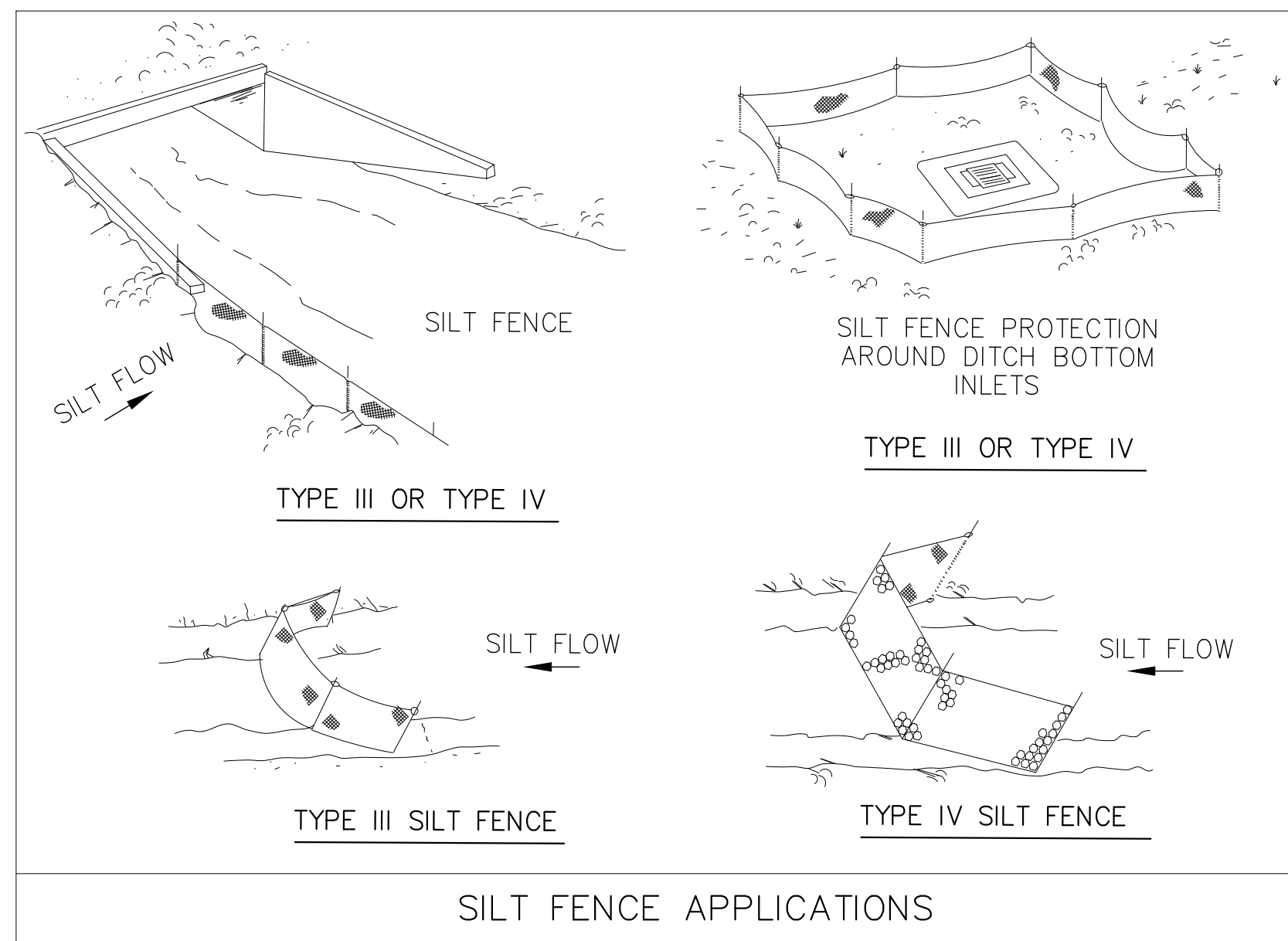
Page 2 of 11

North / Elev Key Sheet

W N E S

ASA R. GILLETTE, P.E.

FLORIDA P.E. NO. 56177



- LEGEND**
-  = CENTERLINE
-  = CONCRETE FLATWORK
-  = FIRE HYDRANT
- P.I.N. = PARCEL IDENTIFICATION NUMBER
-  = WOOD VALVE
-  = WOOD POWER POLE
-  = SEWER CLEANOUT
-  = DEMO

- TREE LEGEND
O = OAK TREE
P = PINE TREE
PM = PALM TREE

SURVEY NOTES:

- | | |
|--|--|
| <p>1) The "Legal Description" hereon is in accord with with the description provided by the client.</p> <p>2) Underground improvements were not located or shown.</p> <p>3) Lands shown hereon were not abstracted by this office for easements, rights-of-way, ownership or other instruments of record.</p> <p>4) Bearings shown hereon are based on S00°00'00"E for the Easterly line of subject property. The bearing reference line is indicated as thus (BR).</p> <p>5) Unless it bears the signature and the original raised seal of a Florida licensed surveyor and mapper, this map/report is for informational purposes only and is not valid.</p> | <p>6) The property shown hereon lies within flood zone "<u>X</u>" as per F.E.M.A. Flood Insurance Rate Map, Panel <u>12089C 0239C</u>, Dated <u>08/02/2017</u>. Flood Zone information above and shown on this survey is provided as a courtesy and is approximate at best. All data should be verified by Nassau County Building Department for accuracy. We assume no liability for its accuracy. Flood Zone information is not covered by the certification hereon and is not required to be shown per Chapter 5J-17, Florida Administrative Code, pursuant to Section 472.027, Florida Statutes.</p> <p>7) Site Benchmark is as shown hereon.</p> <p>8) Elevations shown hereon refer to North American Vertical Datum of 1988. (N.A.V.D. '88)</p> |
|--|--|

NOTE: SOME DETAILS IN THESE DRAWINGS ARE TO BE CONSIDERED TYPICAL AND MAY NOT BE CALLED OUT ON PLANS. CONTRACTOR SHALL BECOME FAMILIAR WITH AND FOLLOW ALL DETAILS DURING CONSTRUCTION IN ALL TYPICAL AREAS.

REGISTERED DESIGN PROFESSIONAL

REV	DATE	ITEM
A	10/10/19	TRC SUBMITTAL #1
B	12/02/19	REVISED PER TRC COMMENTS
C	12/10/19	REVISED BUILDING FOOTPRINT
D	12/16/19	REVISED PER NASSAU COUNTY COMMENTS
E	12/18/19	REVISED UTIL. & LANDSCAPING PER TRC COMMENTS

GILLETTE & ASSOCIATES, INC.
CIVIL, ENVIRONMENTAL, MECHANICAL, & STRUCTURAL ENGINEERING

CERTIFICATE OF AUTHORIZATION NO. 9332

[illegible]

20 S. 4th STREET * FERNANDINA BEACH, FL 32034
PHONE: 904 261 9910 * www.cilottassociates.com

PHONE: 904-201-8819
WWW.GILLETTESSOCIATES.COM

CRAWFORD JEWELERS/RETAIL
PRELIMINARY BINDING SITE PLAN

SADLER ROAD
FERNANDINA BEACH, FLORIDA

DATE: 12/18/19

SCALE: 1" = 20'
DRAWING IS REDUCED IF LESS
THAN 22" x 34"

PREDEVELOPMENT PLAN

North / Elev Key	Sheet
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PRE-

Page 3 of 3

SITE NOTES

PROPERTY

PROPERTY PARCEL: 00-00-31-117C-00CM-0000
LOT AREA: 0.86 ACRE
ZONING: CAPE SOUND PUD
LAND USE: COMMERCIAL
FLOOD ZONE: X

BUILDINGS

TOTAL FLOOR AREA: 4,100 SF
MAXIMUM FLOOR AREA RATIO: 0.21
FLOOR AREA RATIO: 0.11
MAXIMUM BUILDING HEIGHT: 45'
PROPOSED BUILDING HEIGHT: 25'
MINIMUM BUILDING SETBACK REQUIREMENTS: NONE

IMPERVIOUS AREA

TOTAL IMPERVIOUS AREA: 0.46 ACRE
MAXIMUM IMPERVIOUS SURFACE RATIO: 60%
IMPERVIOUS SURFACE RATIO: 53%

PARKING

REQUIRED: 1 SPACE/300 SF OF RETAIL
1 SPACE/50 SF OF EATING ESTABLISHMENT
CUSTOMER SERVICE AREA
RETAIL AREA: 2,922 SF
EATING ESTABLISHMENT CUST. SERV. AREA: 440 SF
SPACES REQUIRED: 19
SPACES PROVIDED: 19
ADA SPACES: 2
REGULAR SPACES: 10
OVERFLOW SPACES: 7

LANDSCAPE BUFFER REQUIREMENTS

NORTH AND EAST PARCELS:
ZONING DISTRICTS: R-2
REQUIRED BUFFER: 15'

SOUTH AND WEST PARCELS:
ZONING DISTRICTS: C-2
REQUIRED BUFFER: NONE

CONSTRUCTION NOTES

A COUNTY CI MUST BE ONSITE AT ALL TIMES WHEN
TAPPING INTO EXISTING STORM CURB INLET.

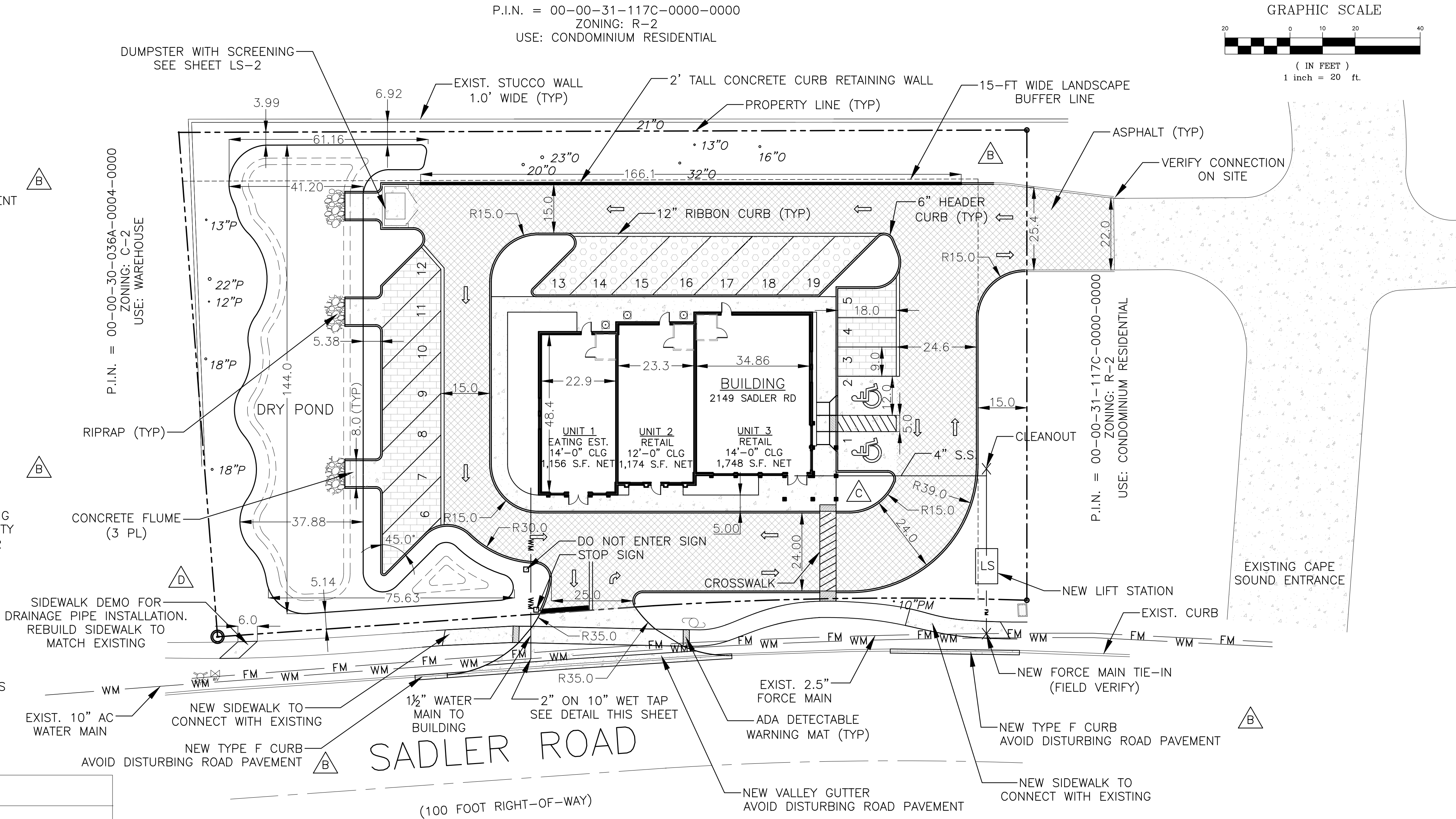
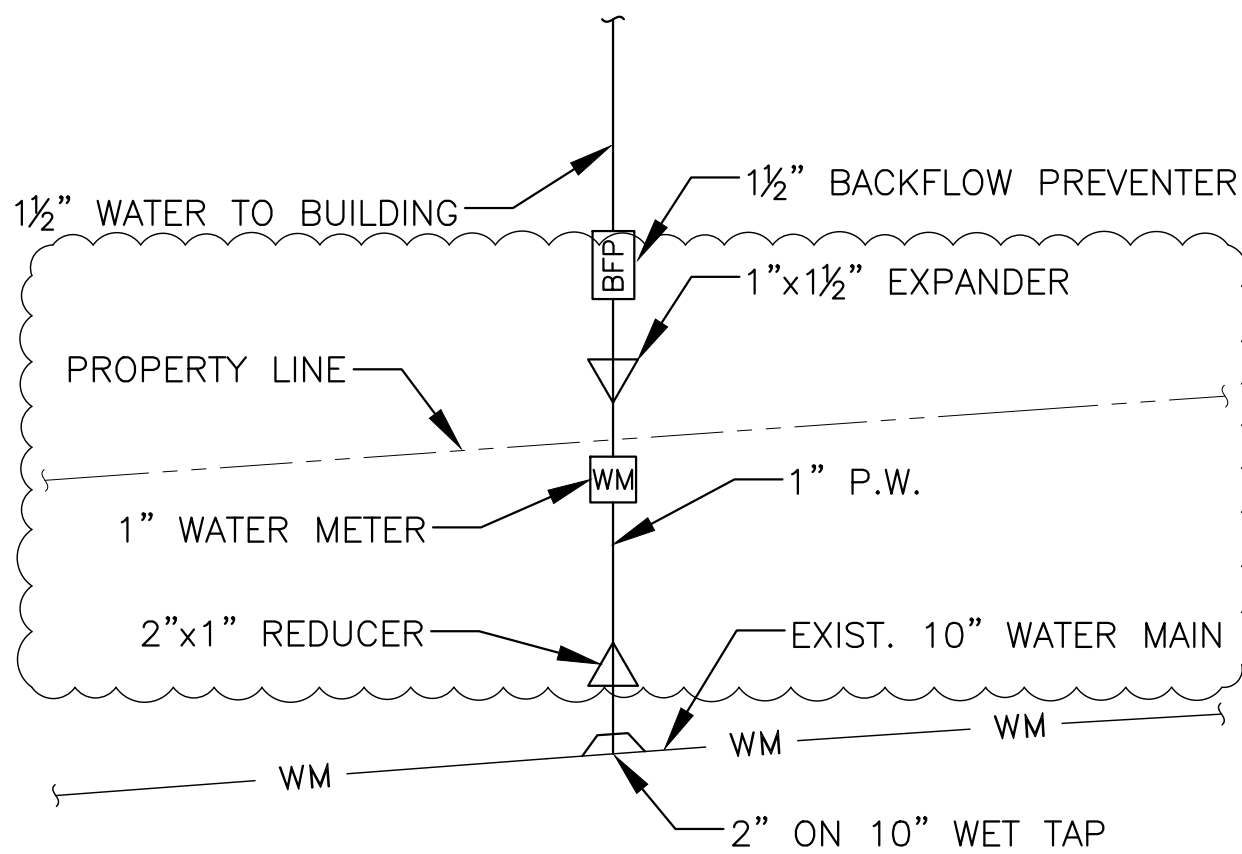
AVOID DISTURBING SADLER ROAD'S PAVEMENT DURING
CURB DEMOLITION AND INSTALLATION. NASSAU COUNTY
WILL REQUIRE 100' OF REPAIR CURB TO CURB FOR
ANY DAMAGE.

REPAIR SIDEWALK AS REQUIRED FOR WATER AND
SEWER TIE-INS

LEGEND

GRAVEL
PERVIOUS PAVERS
ASHPALT
CONCRETE

WATER MAIN CONNECTION DETAIL



NOTE: SOME DETAILS IN THESE
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CRAWFORD JEWELERS/RETAIL
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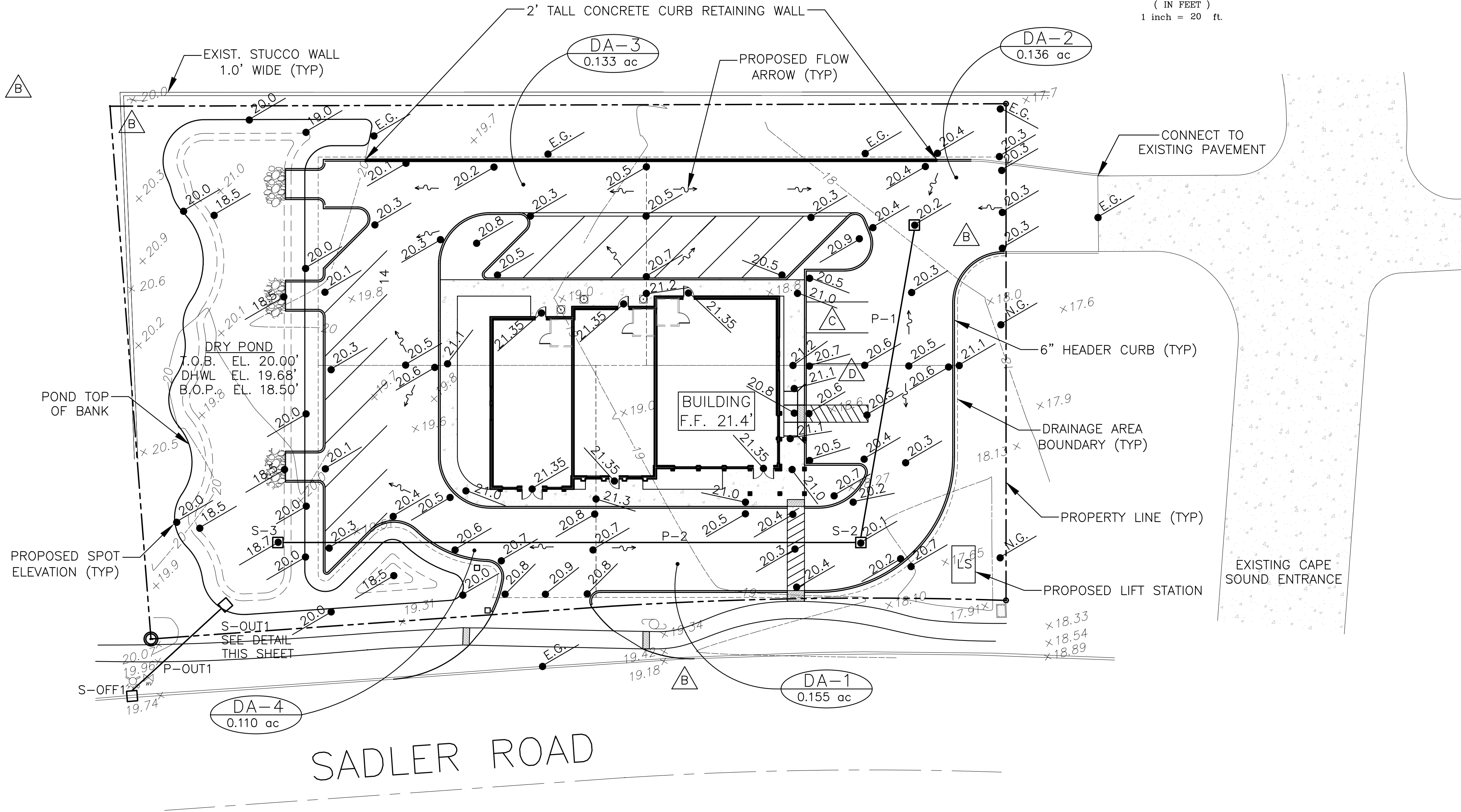
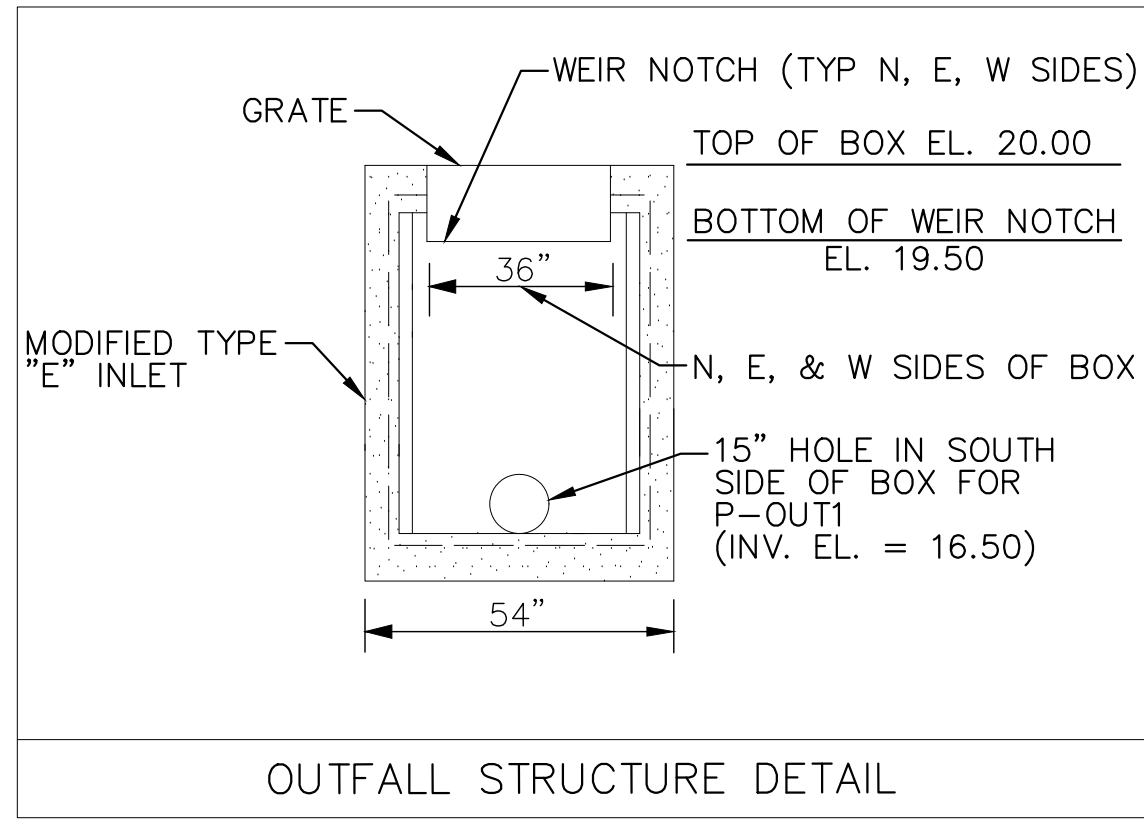
GEOMETRY PLAN

North / Elev Key Sheet
GE-1
Page 4 of 11

STRUCTURE TABLE						
NAME	TYPE	TOP / INLET ELEV.	INVERT ELEVATION			
			N	S	E	W
S-1	TYPE C INLET	20.20	-	18.60	-	-
S-2	TYPE C INLET	20.10	18.21	-	-	18.21
S-3	TYPE C INLET	18.50	-	-	17.48	-
S-OUT1	DROP STRUCT.	19.50	-	16.50	-	-
S-OFF	EXIST. INLET					

PIPE TABLE					
NAME	FROM	TO	SIZE	LENGTH	MATERIAL
P-1	S-1	S-2	15"	167'	RCP
P-2	S-2	S-3	15"	91'	RCP
P-OUT1	S-OUT1	S-OFF1	15"	36'	RCP

NOTE: A COUNTY CI MUST BE ONSITE AT ALL TIMES WHEN TAPPING INTO EXISTING STORM CURB INLET S-OFF1



NOTE: TREES WITH HEALTH SCORE < 35 DO NOT QUALIFY FOR PRESERVATION CREDITS

TREE PRESERVATION DATA						
TREE ID NO.	SPECIES	SIZE (DBH)	HEALTH SCORE (10-60)	SAVED? (Y/N)	PRESERVATION CREDIT MULTIPLIER	SAVED DBH (INC. PRESERVATION CREDIT)
631	QUERCUS VIRGINIANA	13.4	34	N	—	—
632	QUERCUS VIRGINIANA	15.8	47	Y	2.0	31.6
633	QUERCUS VIRGINIANA	13.3	41	Y	1.5	20.0
634	QUERCUS VIRGINIANA	32.0	50	Y	3.0	96.0
635	QUERCUS VIRGINIANA	20.7	50	Y	3.0	62.1
636	QUERCUS VIRGINIANA	23.4	47	Y	3.0	70.2
637	QUERCUS VIRGINIANA	20.0	47	Y	3.0	60.0
638	PINUS ELLIOTTII	16.6	42	N	—	—
639	PINUS ELLIOTTII	20.7	42	N	—	—
640	PINUS ELLIOTTII	17.6	23	N	—	—
641	PINUS TAEDA	22.1	36	N	—	—
642	PINUS ELLIOTTII	13.0	33	N	—	—
643	PINUS ELLIOTTII	21.8	53	Y	3.0	65.4
644	PINUS ELLIOTTII	11.8	36	Y	1.5	17.7
645	PINUS TAEDA	13.5	39	N	—	—
646	QUERCUS VIRGINIANA	14.6	38	N	—	—
647	PINUS ELLIOTTII	18.2	50	Y	2.0	36.4
648	PINUS ELLIOTTII	17.5	22	N	—	—
649	PINUS ELLIOTTII	17.6	36	Y	2.0	35.2
650	QUERCUS NIGRA	17.8	20	N	—	—
651	SABAL PALMETTO	14.0	35	N	—	—
652	SABAL PALMETTO	11.0	41	N	—	—
653	SABAL PALMETTO	12.3	41	N	—	—
654	SABAL PALMETTO	14.4	47	Y	2.0	28.8
655	SABAL PALMETTO	16.3	47	Y	2.0	32.6
656	SABAL PALMETTO	10.2	47	Y	1.5	15.3
TOTAL		439.6			TOTAL	556.0

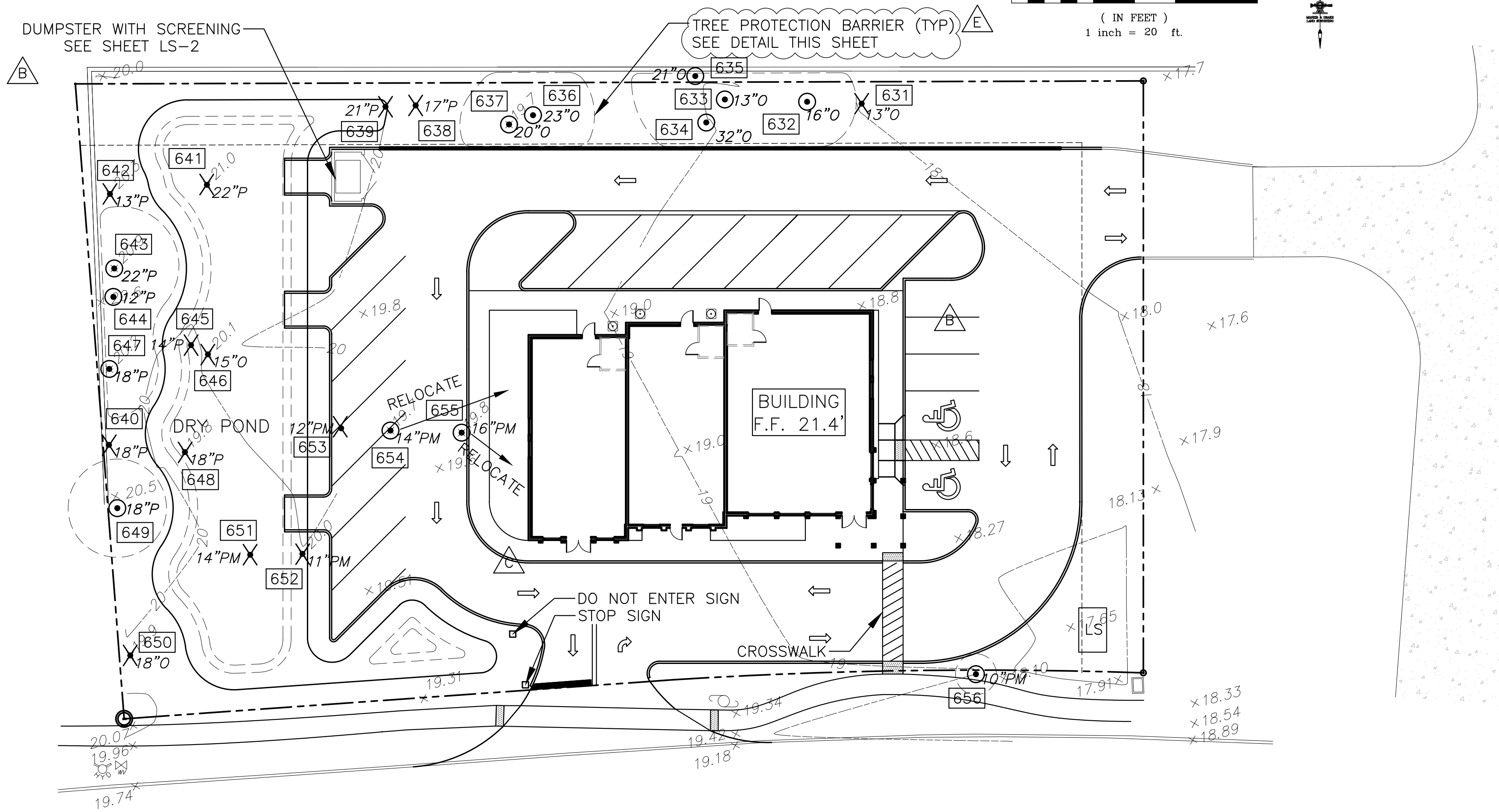
TREE MITIGATION DATA	
PRE-DEVELOPMENT DBH	440"
REQUIRED REPLACEMENT (25% DBH)	110"
SAVED DBH	556"
NET (POSITIVE FOR CREDIT)	446"

EXISTING TREE LEGEND		
SYMBOL	DESCRIPTION	QTY.
X	TREE TO BE REMOVED	13
○	TREE TO REMAIN	13
□	TREE ID NO.	—
P	PINE TREE	11
O	OAK TREE	9
PM	PALM TREE	6

ISA CERTIFIED ARBORIST: SO-10363A
LEOPOLD ADLER

NOTE TO CONTRACTOR :

REQUIRED TREE PROTECTION BARRICADES MUST BE INSPECTED BY THE CERTIFYING ARBORIST PRIOR TO ANY CONSTRUCT ACTIVITIES, AND REMAIN INTACT THROUGHOUT CONSTRUCTION. ENCROACHMENT INTO OR FAILURE TO MAINTAIN TREE BARRICADES WILL RESULT IN ENFORCEMENT ACTION WHICH MAY INCLUDE CITATIONS AND/OR BUILDING/CLEARING PERMIT REVOCATION AS PROVIDED BY COUNTY ORDINANCE.



SADLER ROAD

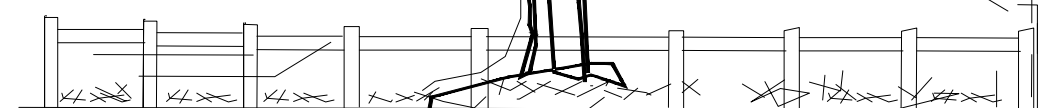
TREE PROTECTION DETAIL

BARRIER TO BE PLACED AROUND TREE SHALL BE PLACE AROUND TREE PROTECTION ZONE AND BE CONSISTENT WITH SPECIFICATIONS DEFINED IN CHAPTER 4.05.14 OF THE FERNANDINA BEACH LAND DEVELOPMENT CODE.

TREE PROTECTION ZONE IS AT MINIMUM A CIRCULAR ZONE AROUND THE TREE TRUNK OF A RADIUS:

- 1) 6 FEET, IF THE DRIP LINE OF THE TREE IS LESS THAN 6 FEET FROM THE TRUNK OF THE TREE.
- 2) 6-20 FEET ENCOMPASSING THE FULL DRIP LINE OF THE TREE, IF THE DRIP LINE OF THE TREE IS BETWEEN 6 AND 20 FEET FROM THE TRUNK OF THE TREE.
- 3) 20 FEET, IF THE DRIP LINE OF THE TREE IS GREATER THAN 20 FEET FROM THE TRUNK OF THE TREE. 3" MULCH LAYER SHALL APPLIED TO THE REMAINING AREA BETWEEN THE TREE PROTECTION ZONE AND DRIP LINE

2" X 2" X 4" WOODEN POSTS — 8' O.C.
WITH A 2" X 4" TOP RAILING AND 3" WIDE
TEMPORARY MESH WIRE, CHAIN-LINK, OR
SIMILAR BARRIER ATTACHED TO POSTS.



NO PARKING OF HEAVY EQUIPMENT OR VEHICLES; STOCKPILING OF MATERIALS; DEPOSITION OF SOIL, SEDIMENT, OR MULCH; GRADING OR GRUBBING; EXCAVATION OR TRENCHING; CONSTRUCTION MATERIALS , DUMPING, BURIAL OR BURNING OF DEBRIS, WITHIN THE ENTIRE CONSTRUCTION SITE; DUMPING PETROCHEMICALS, CHEMICALS, WASTEWATER, OR OTHER CONSTRUCTION WASTE, ALL HAZARDOUS MATERIALS TO BE STORED AT A MAXIMUM DISTANCES FROM ANY TREE PROTECTION ZONE

NOTE: SOME DETAILS IN THESE DRAWINGS ARE TO BE CONSIDERED TYPICAL AND MAY NOT BE CALLED OUT ON PLANS. CONTRACTOR SHALL BECOME FAMILIAR WITH AND FOLLOW ALL DETAILS DURING CONSTRUCTION IN ALL TYPICAL AREAS.

REGISTERED DESIGN PROFESSIONAL

REV	DATE	ITEM	DESCRIPTION
A	10/10/19	TRC SUBMITTAL #1	
B	12/02/19	REVISED PER TRC COMMENTS	
C	12/10/19	REVISED BUILDING FOOTPRINT	
D	12/16/19	REVISED PER WASSAU COUNTY COMMENTS	
E	12/18/19	REVISED UTIL & LANDSCAPING PER TRC COMMENTS	

GILLETTE & ASSOCIATES, INC.
CIVIL, ENVIRONMENTAL, MECHANICAL, & STRUCTURAL ENGINEERING
CERTIFICATE OF AUTHORIZATION NO. 9332
ASA R. GILLETTE, P.E. • FL. PE. NO. 56177

20 S. 4th STREET * FERNANDINA BEACH, FL 32034
PHONE: 904-261-8819 * www.gilletteassociates.com

CRAWFORD JEWELERS/RETAIL
PRELIMINARY BINDING SITE PLAN

SADLER ROAD
FERNANDINA BEACH, FLORIDA

DATE: 12/18/19

SCALE: 1" = 20'
DRAWING IS REDUCED IF LESS
THAN 22" X 34"

TREE MITIGATION
PLAN

North / Elevation Key Sheet

LS-1

Page 6 of 11

LANDSCAPE BUFFER REQUIREMENTS

PER THE CITY OF FERNANDINA BEACH LAND DEVELOPMENT CODE 4.05.12:

PARCEL ZONING DISTRICT: C-2

NORTH PROPERTY LINE

ZONING DISTRICT: R-2

REQUIRED BUFFER: TYPE C

MINIMUM WIDTH: 15'

REQUIRED PLANTS/100':

- 2 SHADE TREES
- 4 UNDERSTORY TREES
- CONTINUOUS UNBROKEN HEDGE

LENGTH: 260'

AVG. PROVIDED BUFFER WIDTH: 15'

PROPOSED PLANTS:

- 6 SAVED SHADE TREES
- 10 UNDERSTORY TREES
- PROPOSE NO HEDGE, AS THE 6' WALL 2.5' FROM THE PROPERTY LINE ALREADY PROVIDES A SOLID VISUAL SCREEN PER 4.05.07 (E)

EAST PROPERTY LINE

ZONING DISTRICT: R-2

REQUIRED BUFFER: TYPE C

MINIMUM WIDTH: 15'

REQUIRED PLANTS/100':

- 2 SHADE TREES
- 4 UNDERSTORY TREES
- CONTINUOUS UNBROKEN HEDGE

LENGTH: 144'

AVG. PROVIDED BUFFER WIDTH: 15'

PROPOSED PLANTS:

- 2 SHADE TREES
- 5 UNDERSTORY TREES
- CONTINUOUS UNBROKEN HEDGE

WEST AND SOUTH PROPERTY LINES

ZONING DISTRICTS: C-2

REQUIRED BUFFER: NONE REQUIRED

LANDSCAPE AREA REQUIREMENTS

TOTAL LOT AREA: 37,636 SF

TOTAL LANDSCAPED AREA: 15,935 SF

TOTAL PARKING AREA: 4,341 SF

TOTAL PARKING LOT LANDSCAPED AREA: 847 SF

MINIMUM LOT LANDSCAPE COVERAGE: 20%

PROPOSED LANDSCAPE COVERAGE: 42%

MINIMUM TREE PLANTING: 1 SHADE TREE/1,500 SF = 25

PROPOSED SHADE TREE PLANTING: 25 (INCLUDING 11 SAVED SHADE TREES AND 3 SAVED PALM TREES)

MINIMUM PARKING LOT LANDSCAPE COVERAGE: 10%

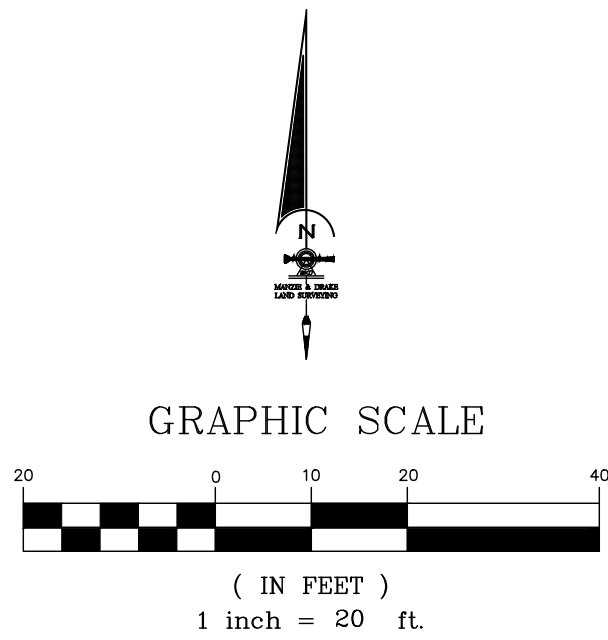
PARKING LOT LANDSCAPE COVERAGE: 20%

LANDSCAPING NOTES

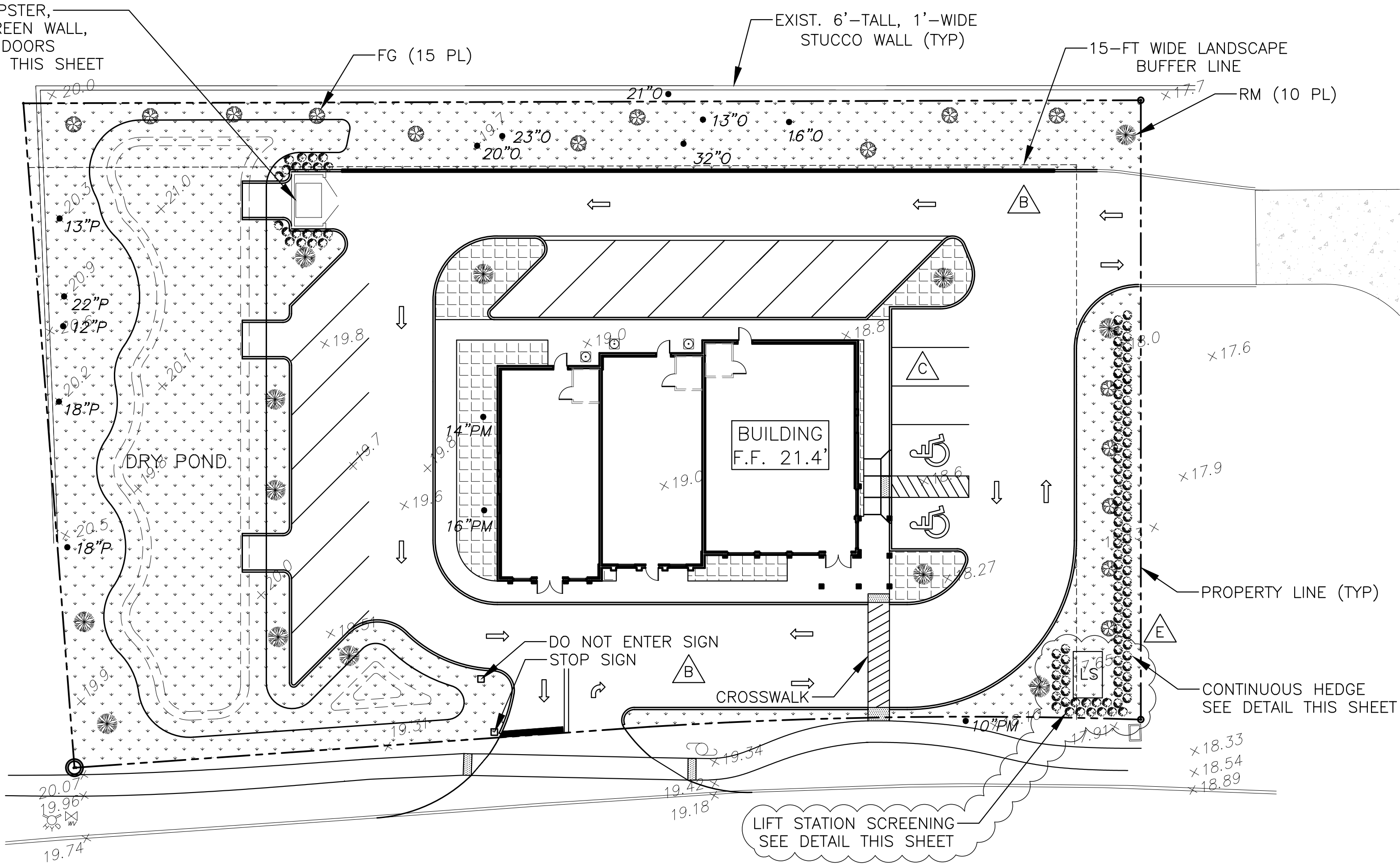
- PLANT MATERIALS SHALL MEET THE STANDARDS FOR FLORIDA NO.1 OR BETTER, AS SET OUT IN GRADES AND STANDARDS FOR NURSERY PLANTS, DEPARTMENT OF AGRICULTURE, STATE OF FLORIDA.
- SHRUBS SHALL BE AT LEAST EIGHTEEN (18) INCHES IN HEIGHT AT THE TIME OF INSTALLATION.
- SHRUBS SHALL BE INSTALLED AT LEAST THIRTY-SIX (36) INCHES APART, MEASURED ON CENTER.
- ALL SHRUBS AND INTERIOR LANDSCAPING TO RECEIVE 100% IRRIGATION COVERAGE.
- ALL AREAS SHOWN WITHOUT IMPROVEMENTS AROUND EXISTING TREES SHALL BE LEFT IN THE NATURAL STATE (UNDISTURBED).
- GRASSED AREAS SHALL BE PLANTED WITH SPECIES NORMALLY GROWN ON PERMANENT LAWNS IN NASSAU COUNTY. GRASSED AREAS MAY BE SODDED, PLUGGED, SPRIGGED, OR SEEDED, PROVIDED THAT FULL COVERAGE SHALL BE ACHIEVED WITHIN ONE (1) YEAR AFTER PLANTING. SOLID SOD SHALL BE USED IN SWALES OR AREAS SUBJECT TO EROSION. GRASS SOD SHALL BE CLEAN AND REASONABLY FREE OF WEEDS AND NOXIOUS PESTS OR DISEASES. GRASS SEED SHALL BE DELIVERED TO THE JOB SITE IN BAGS WITH FLORIDA DEPARTMENT OF AGRICULTURE TAGS ATTACHED INDICATING THE QUALITY CONTROL PROGRAM.
- INSTALLATION AND MAINTENANCE OF ALL PLANTINGS SHALL BE IN ACCORDANCE WITH ARTICLES 4.05.03 (D) AND 4.05.03 (E) OF THE CITY OF FERNANDINA BEACH LAND DEVELOPMENT CODE.

MAINTENANCE REQUIREMENTS

- ALL PLANTINGS SHALL BE CONTINUALLY MAINTAINED IN AN ATTRACTIVE AND HEALTHY CONDITION. MAINTENANCE SHALL INCLUDE, BUT NOT BE LIMITED TO, WATERING, TILLING, FERTILIZING AND SPRAYING, MOWING, WEEDING, REMOVAL OF LITTER AND DEAD PLANT MATERIAL, AND NECESSARY PRUNING AND TRIMMING.
- REQUIRED PLANTS THAT BECOME DISEASED OR DIE SHALL BE REPLACED NOT LATER THAN THREE (3) MONTHS FOLLOWING THE LOSS OF THE PLANT.
- THE PROPERTY OWNER IS RESPONSIBLE FOR THE MAINTENANCE OF ALL REQUIRED LANDSCAPING IN A HEALTHY, THRIVING CONDITION.
- TREES SHALL BE PRUNED ONLY AS NECESSARY TO PROMOTE HEALTHY GROWTH OR TO AVOID POWER LINES. TREES SHALL NOT BE SEVERELY PRUNED OR "HATRACKED" IN ORDER TO PERMANENTLY MAINTAIN GROWTH AT A REDUCED HEIGHT. PRUNING SHALL COMPLY WITH CURRENT NATIONAL ARBORISTS' SOCIETY STANDARDS.

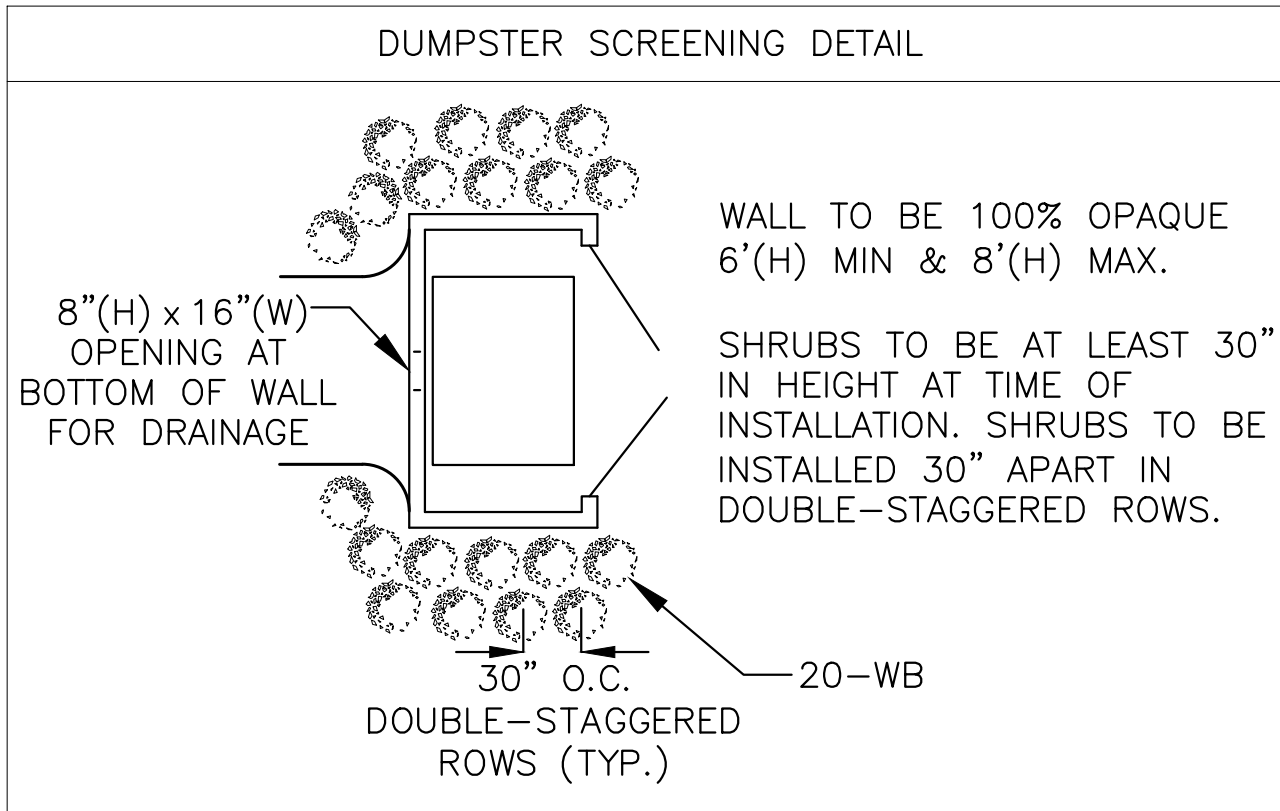


DUMPSTER, CMU SCREEN WALL, AND DOORS SEE DETAIL THIS SHEET

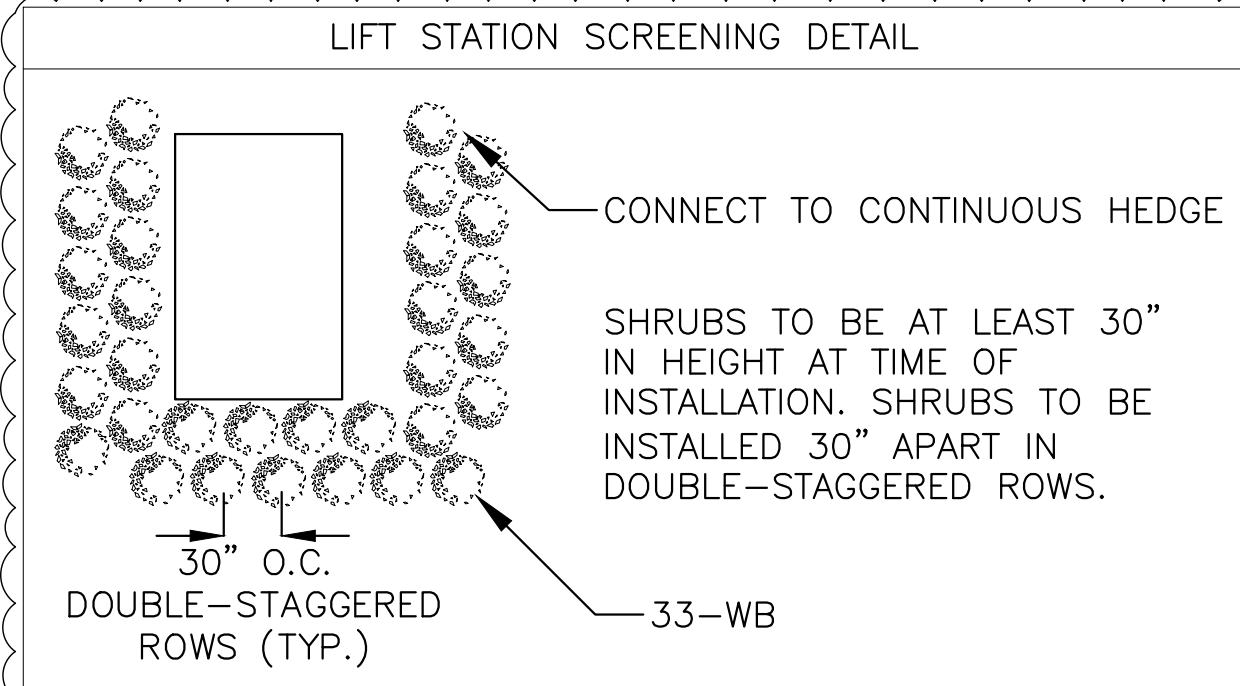
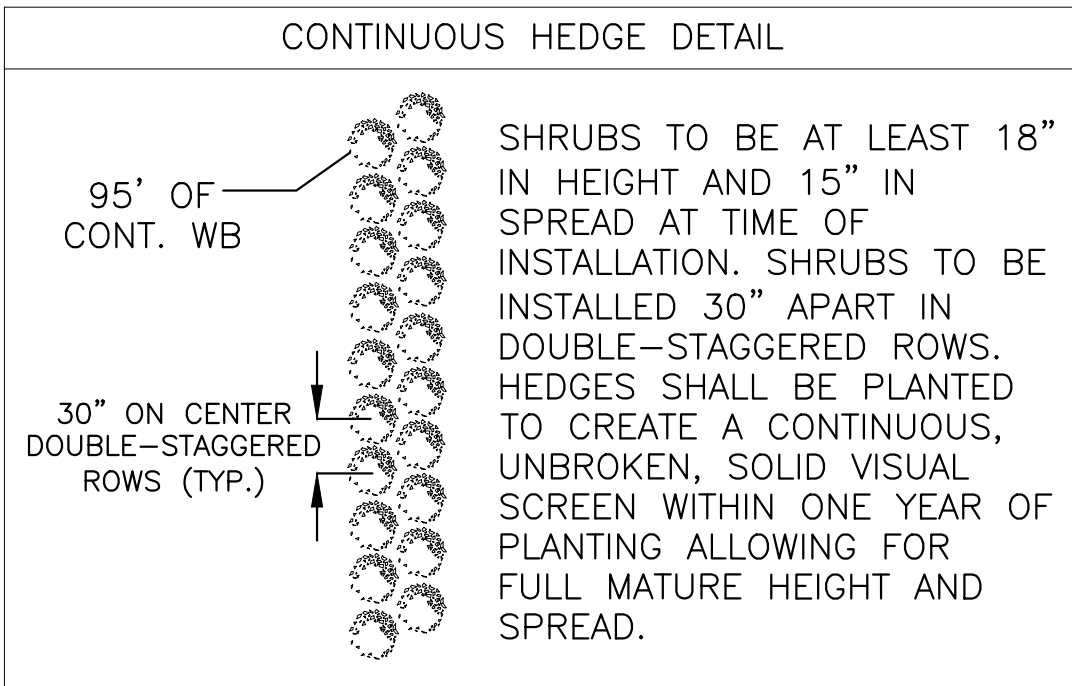


SADLER ROAD

NEW PLANT/MATERIAL SCHEDULE				
SYMBOL	QTY. ^B	KEY	SPECIES	SIZE/REMARKS
	13	RM	ACER RUBRUM RED MAPLE	2.5" DBH AND 8' HT. MIN.
	15	FG	CORNUS FLORIDA FLOWERING DOGWOOD	2.5" DBH AND 8' HT. MIN.
	~107 83' OF HEDGE, 50' OF SCREENING	WB	VIBURNUM OBOVATUM	18" HT AND 15" SPREAD MIN. FOR HEDGE
			WALTER'S VIBURNUM	30" HT MIN. FOR SCREENING SHRUBS
	14,755 SF	-	ERIMOCHELLO OPHUIUROIDES CENTIPEDE GRASS	
	1,553 SF	-	MUHLENBERGIA CAPILLARIS MUHLY GRASS	



^B



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REGISTERED DESIGN PROFESSIONAL

REVISIONS

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CRAWFORD JEWELERS/RETAIL PRELIMINARY BINDING SITE PLAN

SADLER ROAD

FERNANDINA BEACH, FLORIDA

DATE: 12/18/19

SCALE: 1" = 20'

DRAWING IS REDUCED IF LESS THAN 22" x 34"

LANDSCAPE PLAN

North / Elev Key Sheet

W N E S

LS-2

Page 7 of 11

CLASS "B"		
BEDDING DETAILS	CLEANOUT	ENCASEMENT AT WATER LINE
		1. ALL MANHOLES SHALL BE PRECAST CONCRETE AND CONFORM TO ASTM C-478 STANDARDS. MANHOLE CONES AND RISERS SHALL BE CONSTRUCTED OF 4,00 PSI, TYPE II CEMENT WITH RIVER ROCK OR GRANITE AGGREGATE. 2. ALL PIPES SHALL BE CONNECTED TO THE MANHOLE USING A LOCK JOINT FLEXIBLE MANHOLE SLEEVE (ASTM C-923) OR APPROVED EQUAL. 3. THE EXTERIOR AND INTERIOR OF THE MANHOLE SHALL BE COATED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS WITH FABERTITE AS MANUFACTURED BY BRIGGS BITUMINOUS COMPOSITION COMPANY. 4. AN INSIDE PVC DROP MANHOLE (TYPE "B") SHALL BE REQUIRED FOR MANHOLES WHICH HAVE A DISTANCE OF 18 INCHES OR GREATER BETWEEN INFLUENT PIPE INVERT AND EFFLUENT PIPE INVERT. ALL OTHER DROPS SHALL HAVE A SLIDE CONSTRUCTED TO DIRECT THE FLOW INTO THE INVERT CHANNEL. 5. SEWER SERVICES SHALL BE CAST IRON IF 2FEET OF GROUND COVER CANNOT BE MAINTAINED OVER THE SERVICE LINE. 6. ALL DUCTILE IRON SEWER PIPE, WHERE SPECIFIED, SHALL BE CLASS 51 AND COMPLY WITH ANSI/AWWA C150/A21.50 AND ANSI/AWWA C151/A21.51. DUCTILE IRON PIPE SHALL BE PROVIDED WITH A FACTORY APPLIED INTERIOR POLYETHYLENE LINING IN ACCORDANCE WITH ANSI/ASTM D1248. 7. THE MAXIMUM NUMBER OF DIPS IS ONE, 1-INCH DIP PER 135 LF OF PIPE. NO MORE THAN ONE DIP PER 135 LF OF PIPE. A DIP IS DEFINED AS A CHANGE IN ELEVATION OF 0.5" OR GREATER.
C.I. TO PVC COUPLING ADAPTER	TYPICAL SEWER SERVICE	GRAVITY SEWER STANDARD SPECIFICATIONS

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FLORIDA P.E. NO. 56177

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CRAWFORD JEWELERS/RETAIL
PRELIMINARY BINDING SITE PLAN
SADLER ROAD
FERNANDINA BEACH, FLORIDA

DATE: 12/18/19

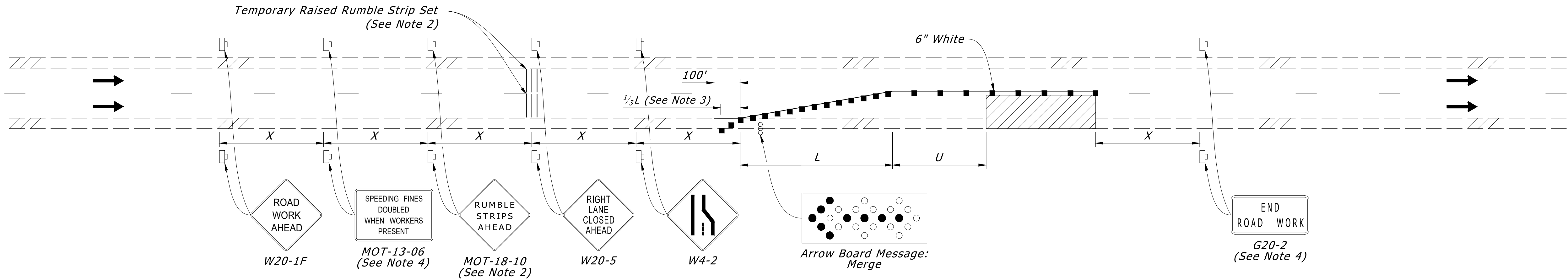
SCALE: NONE
DRAWING IS REDUCED IF LESS THAN 22" x 34"

SEWER DETAILS

North / Elev Key Sheet

DT-3

Page10 of 11



SYMBOLS:

- Work Space
- Channelizing Device (See Index 102-000)
- Work Zone Sign
- Lane Identification and Direction of Traffic
- Arrow Board

NOTES:

- Sadler Road Work Zone Speed = 35 mph
L = Taper Length = 245 feet min.
U = Buffer Length = 250 feet min.
X = Work Zone Sign Distance = 200 feet min.
- Use temporary raised rumble strips in accordance with the Plans. If temporary raised rumble strips are not used, omit "Rumble Strips Ahead" signs (MOT-18-10) and associated work zone sign distance. See Index 102-000 for temporary raised rumble strip details.
- If the paved shoulder is less than 4' in width, omit the taper and channelizing devices from the paved shoulder.
- The "Speeding Fines Doubled When Workers Present" signs (MOT-13-06) and "End Road Work" signs (G20-2), along with associated work zone sign distances, may be omitted when the work zone will be in place for 24 hours or less.
- Use inverted plan of the illustrations for work on left side of roadways.

CHANNELIZING DEVICE SPACING

Max. Spacing (feet)	
Taper	Tangent
25	50

	FY 2020-21 STANDARD PLANS	MULTILANE ROADWAY, SINGLE LANE CLOSURE	INDEX 102-045
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CRAWFORD JEWELERS/RETAIL
PRELIMINARY BINDING SITE PLAN

SADLER ROAD
FERNANDINA BEACH, FLORIDA

DATE: 12/18/19

SCALE: NONE
DRAWING IS REDUCED IF LESS THAN 22" x 34"

MOT PLAN

North / Elev Key

Sheet

MOT-1

Page 11 of 11



ENGINEERING PLANS

FOR

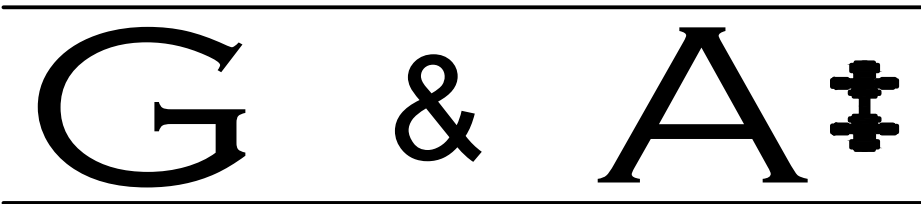
VERNON & ELM STREET HOMES

FOR

NASSAU HABITAT FOR HUMANITY

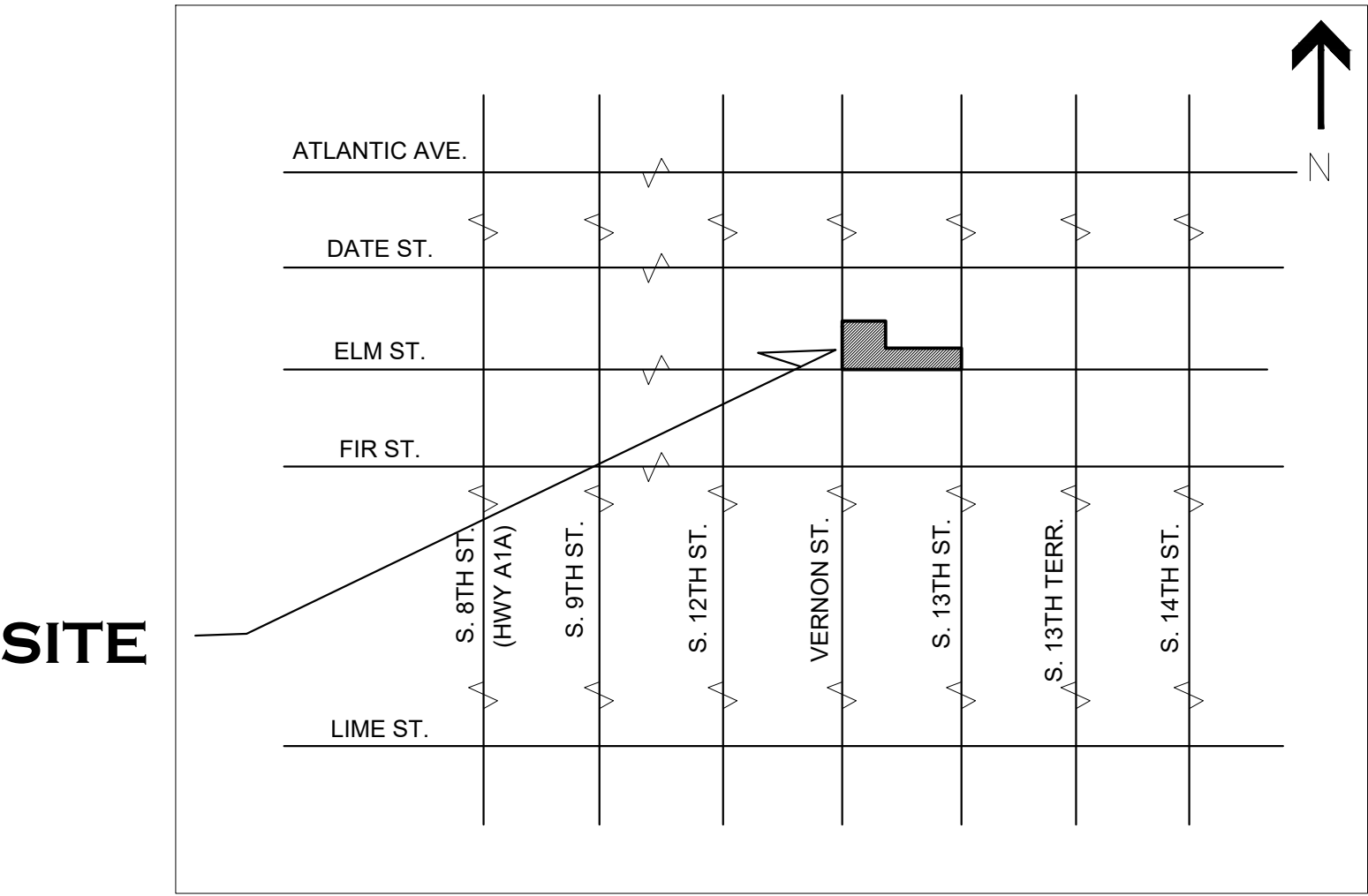
GILLETTE & ASSOCIATES, INC.

CIVIL & ENVIRONMENTAL ENGINEERING
MECHANICAL & STRUCTURAL ENGINEERING
PERMITTING & CONSTRUCTION MANAGEMENT
20 SOUTH 4TH STREET AMELIA ISLAND, FLORIDA 32034
PHONE: 904/261-8819



PERMITTING AGENCIES
CITY OF FERNANDINA BEACH

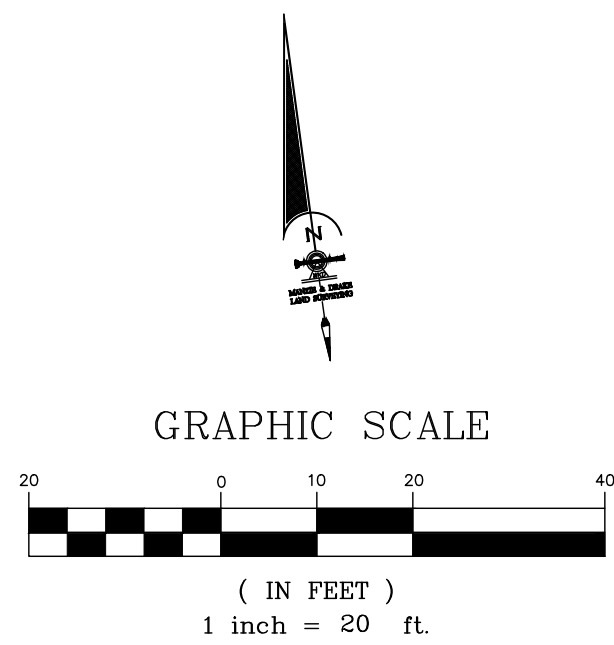
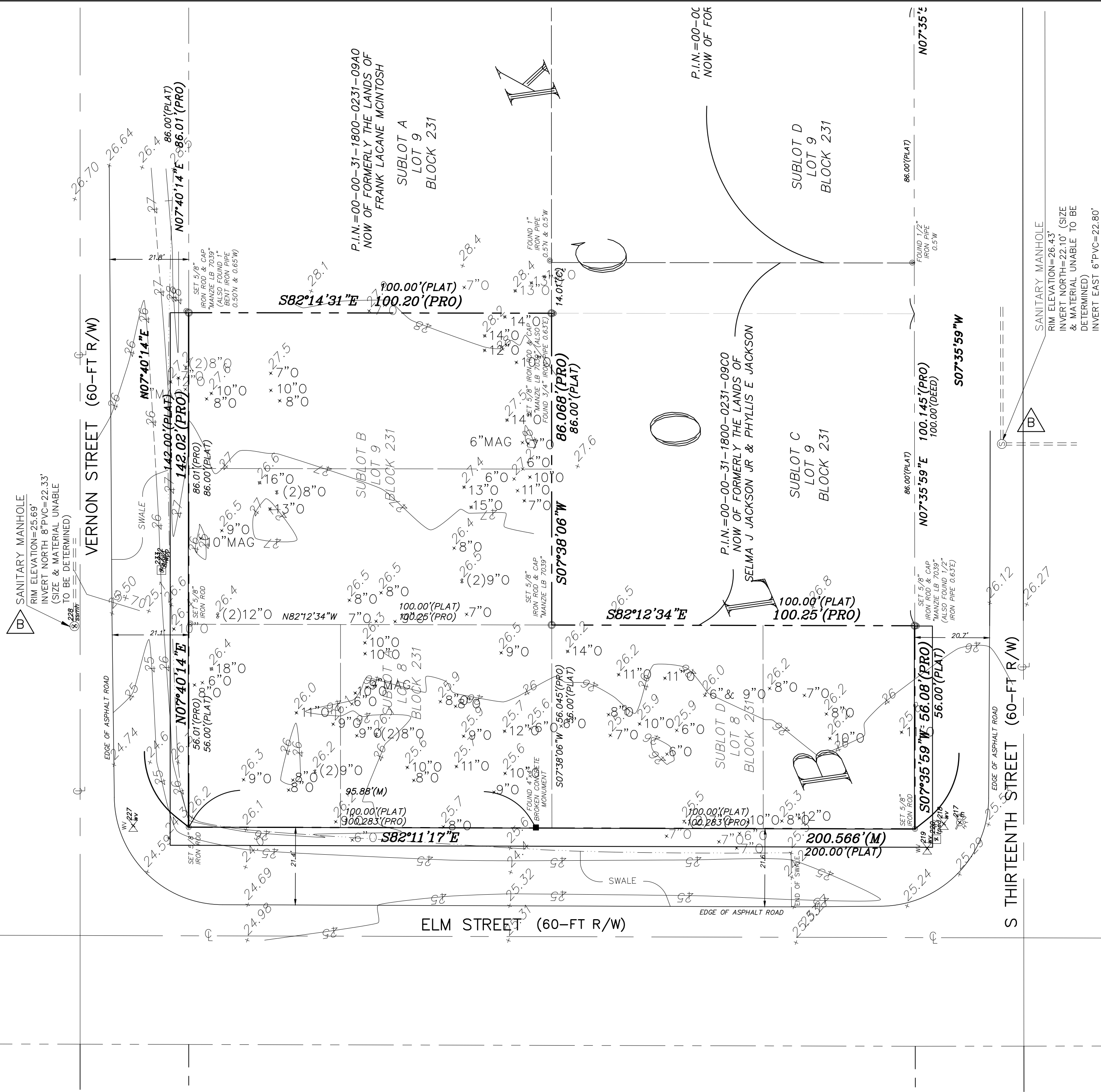
SITE LOCATION MAP



SITE

ISSUE DATE: NOVEMBER 27, 2019

K				Scale: 1" = 10'	Gillette & Associates, Inc. 20 South 4th Street Fernandina Beach, FL 32034	 GILLETTE & ASSOCIATES, INC. 20 SOUTH 4TH STREET FERNANDINA BEACH, FL 32034 PHONE: (904) 261-8819	VERNON AND ELM STREET HOMES	NASSAU HABITAT FOR HUMANITY	COVER SHEET	Registered Professional	Sheet No. CVR
J				Project Mgr: AG	Certificate of Authorization No. 9332						1 of 10
I				Designed by: AG/JC							Issue Date DECEMBER 5, 2019
G				Drawn by: EC							Project No. 19-XX-XX
F				QA/QC: NG	DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PREFERENCE. DRAWING IS REDUCED IF LESS THAN 22" x 34"						
E											
D											
C	EC	12/05/19	REVISED PER TRC COMMENTS								
B	EC	11/27/19	DRAINAGE REVISIONS								
A	EC	10/31/19	TRC SUBMITTAL #1								
No.	By	Date	Revision								



LEGEND

CL = CENTERLINE

FH = FIRE HYDRANT

P.I.N. = PARCEL IDENTIFICATION NUMBER

WV = WATER VALVE

WP = WOOD POWER POLE

O = OAK TREE

MAG = MAGNOLIA TREE

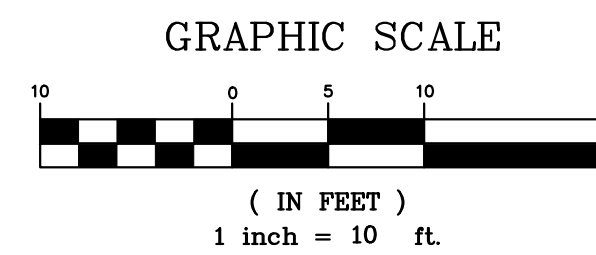
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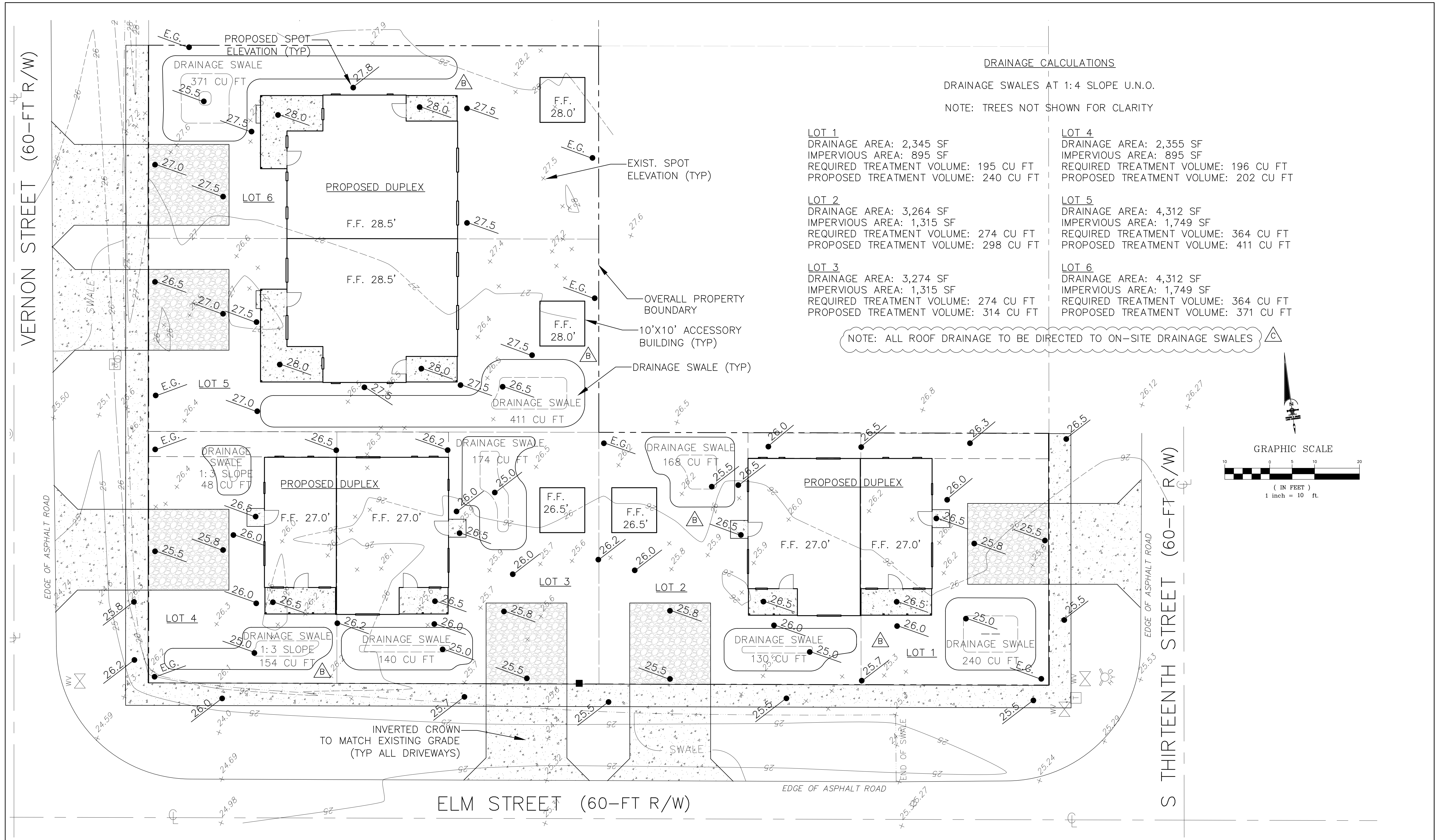
- 1) The "Legal Description" hereon is in accord with with the description provided by the client.
- 2) Underground improvements were not located or shown.
- 3) Lands shown hereon were not abstracted by this office for easements, rights-of-way, ownership or other instruments of record.
- 4) Bearings shown hereon are based on S00°00'00"E for the Easterly line of subject property. The bearing reference line is indicated as thus (BR).
- 5) Unless it bears the signature and the original raised seal of a Florida licensed surveyor and mapper, this map/report is for informational purposes only and is not valid.
- 6) The property shown hereon lies within flood zone "X" as per F.E.M.A. Flood Insurance Rate Map, Panel 12089C 0239G, Dated 08/02/2017. Flood Zone information above and shown on this survey is provided as a courtesy and is approximate at best. All data should be verified by Nassau County Building Department for accuracy. We assume no liability for its accuracy. Flood Zone information is not covered by the certification hereon and is not required to be shown per Chapter 5J-17, Florida Administrative Code, pursuant to Section 472.027, Florida Statutes.
- 7) Site Benchmark is as shown hereon.
- 8) Elevations shown hereon refer to North American Vertical Datum of 1988. (N.A.V.D. '88)

K				Scale: 1" = 20'	Gillette & Associates, Inc. 20 South 4th Street Fernandina Beach, FL 32034	 GILLETTE & ASSOCIATES, INC. 20 SOUTH 4TH STREET FERNANDINA BEACH, FL 32034 PHONE: (904) 261-8819	VERNON AND ELM STREET HOMES	NASSAU HABITAT FOR HUMANITY	PREDEVELOPMENT PLAN	Registered Professional	Sheet No. PRE-1
J				Project Mgr: AG	Certificate of Authorization No. 9332						3 of 10
I				Designed by: AG/JC	DO NOT SCALE THIS DRAWING – DIMENSIONS AND NOTES TAKE PREFERENCE. DRAWING IS REDUCED IF LESS THAN 22" x 34"						Issue Date DECEMBER 5, 2019
H				Drawn by: EC	QA/QC: NG						Project No. 19-XX-XX
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F											
E											
D											
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B	EC	11/27/19	DRAINAGE REVISIONS								
A	EC	10/31/19	TRC SUBMITTAL #1								
No	By	Date	Revision								

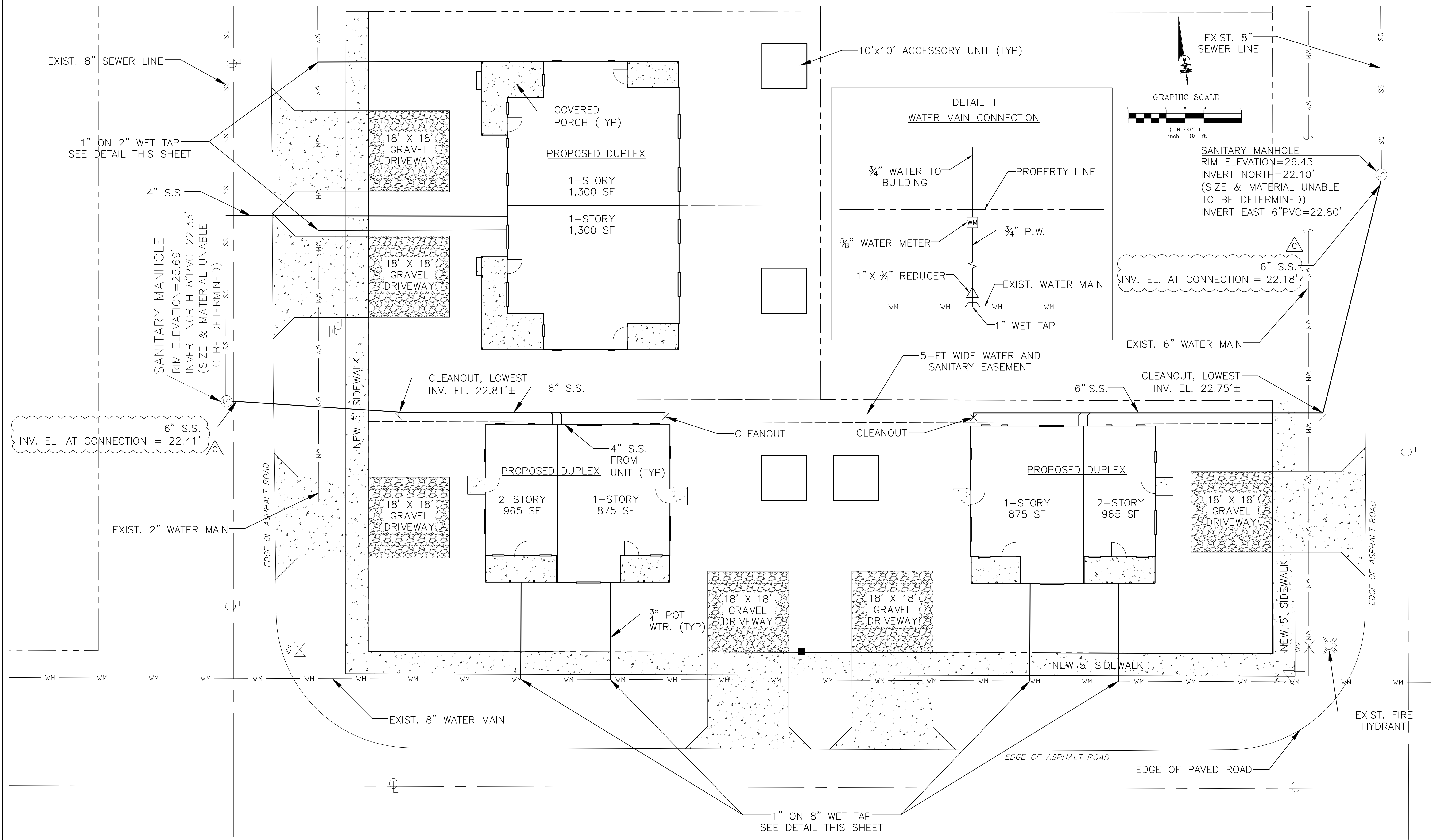
LOTS 1-4 WIDTH: 56 FT
 LOTS 5-6 WIDTH: 43 FT
 FRONT YARD: 25 FT
 SIDE YARD:
 10% OF LOT WIDTH
 SIDE YARD ABUTTING STREET: 15 FT
 REAR YARD: 20 FT

P.I.N.S: 00-00-31-1800-0231-02C1
00-00-31-1800-0231-09A0
00-00-31-1800-0231-09C0
00-00-31-1800-0241-0130
00-00-31-1800-0231-03B0
ZONING: R-2 (E,N,W), REC (S)
USES: SINGLE FAMILY RESIDENCE (E,W),
VACANT (N), MUNICIPAL (S)





				Scale: 1" = 10'	Gillette & Associates, Inc. 20 South 4th Street Fernandina Beach, FL 32034	G & A[®] GILLETTE & ASSOCIATES, INC. 20 SOUTH 4TH STREET FERNANDINA BEACH, FL 32034 PHONE: (904) 261-8819	VERNON AND ELM STREET HOMES	NASSAU HABITAT FOR HUMANITY	DRAINAGE PLAN	Sheet No. DR-1 5 of 10 Issue Date DECEMBER 5, 2019 Project No. 19-XX-XX
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I			Designed by: AG/JC							
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No.	By	Date	Revision							
										Registered Professional



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Drawn by: EC
QA/QC: NG

Gillette & Associates, Inc. 20 South 4th Street Fernandina Beach, FL 32034
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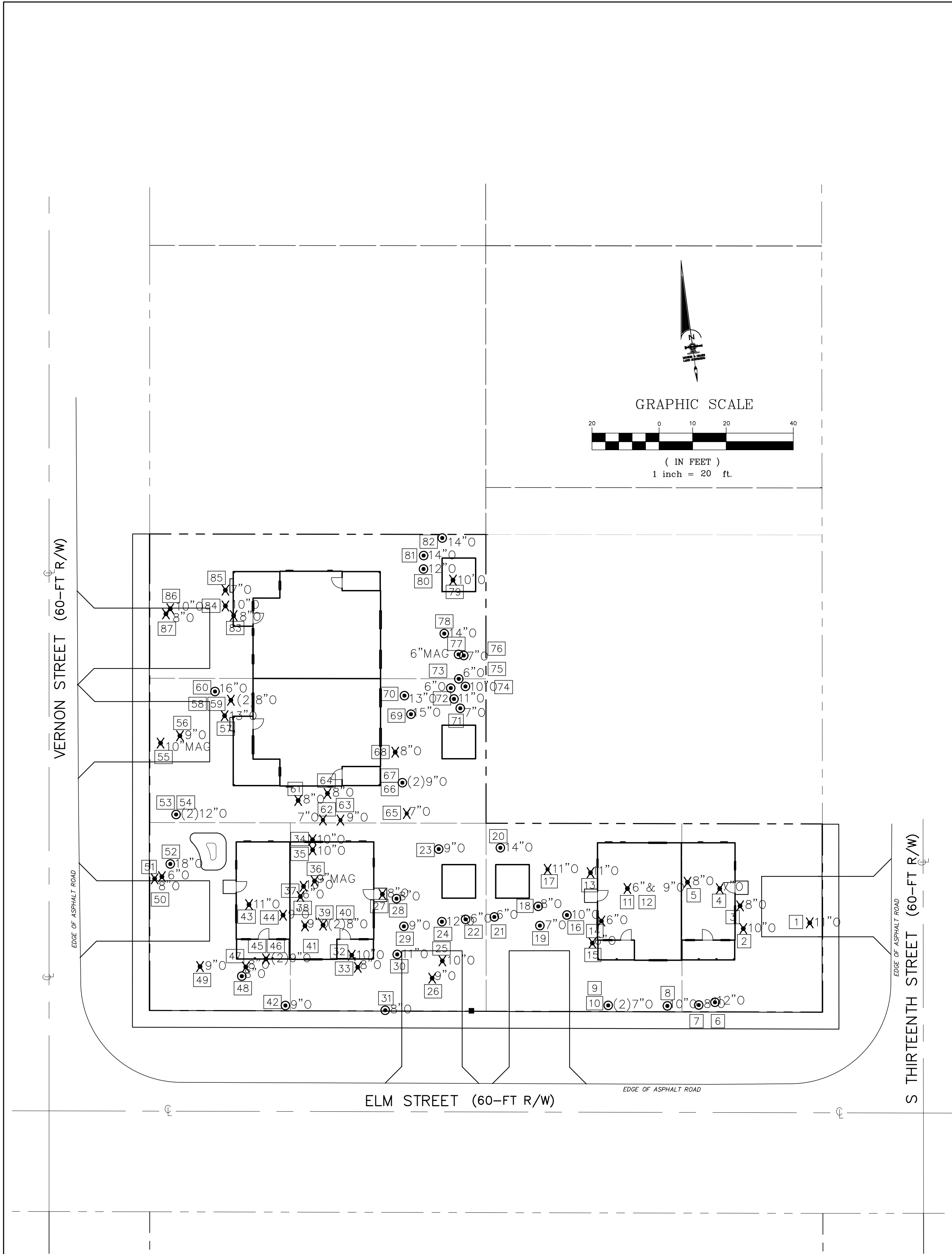
GILLETTE & ASSOCIATES, INC.
20 SOUTH 4TH STREET
FERNANDINA BEACH, FL 32034
PHONE: (904) 261-8819

VERNON AND ELM STREET HOMES

NASSAU HABITAT FOR HUMANITY

UTILITY PLAN

Sheet No. UT-1
6 of 10
Issue Date DECEMBER 5, 2019
Project No. 19-XX-XX
Registered Professional



TREE PRESERVATION DATA					
TREE ID NO.	SIZE (DBH)	SAVED? (Y/N)	SPECIES	SAVED DBH	
1	11	N	OAK	—	
2	10	N	OAK	—	
3	8	N	OAK	—	
4	7	N	OAK	—	
5	8	N	OAK	—	
6	12	Y	OAK	12.0	
7	8	Y	OAK	8.0	
8	10	Y	OAK	10.0	
9	7	N	OAK	—	
10	7	N	OAK	—	
11	6	N	OAK	—	
12	9	N	OAK	—	
13	11	N	OAK	—	
14	6	N	OAK	—	
15	6	N	OAK	—	
16	10	Y	OAK	10.0	
17	11	N	OAK	—	
18	8	Y	OAK	8.0	
19	7	Y	OAK	7.0	
20	14	Y	OAK	14.0	
21	6	Y	OAK	6.0	
22	6	Y	OAK	6.0	
23	9	Y	OAK	9.0	
24	12	Y	OAK	12.0	
25	10	N	OAK	—	
26	9	N	OAK	—	
27	8	N	OAK	—	
28	8	N	OAK	—	
29	9	Y	OAK	9.0	
30	11	Y	OAK	11.0	
31	8	Y	OAK	8.0	
32	10	N	OAK	—	
33	8	N	OAK	—	
34	10	N	OAK	—	
35	10	N	OAK	—	
36	9	N	MAG	—	
37	10	N	OAK	—	
38	6	N	OAK	—	
39	8	N	OAK	—	
40	8	N	OAK	—	
41	9	N	OAK	—	
42	9	Y	OAK	10.0	
43	11	N	OAK	—	
44	9	N	OAK	—	
45	9	N	OAK	—	
46	9	N	OAK	—	
47	8	N	OAK	—	
48	8	N	OAK	—	
49	9	N	OAK	—	
50	8	N	OAK	—	
51	6	N	OAK	—	
52	18	Y	OAK	18.0	
LOTS A+B TOTAL	464			158.0	

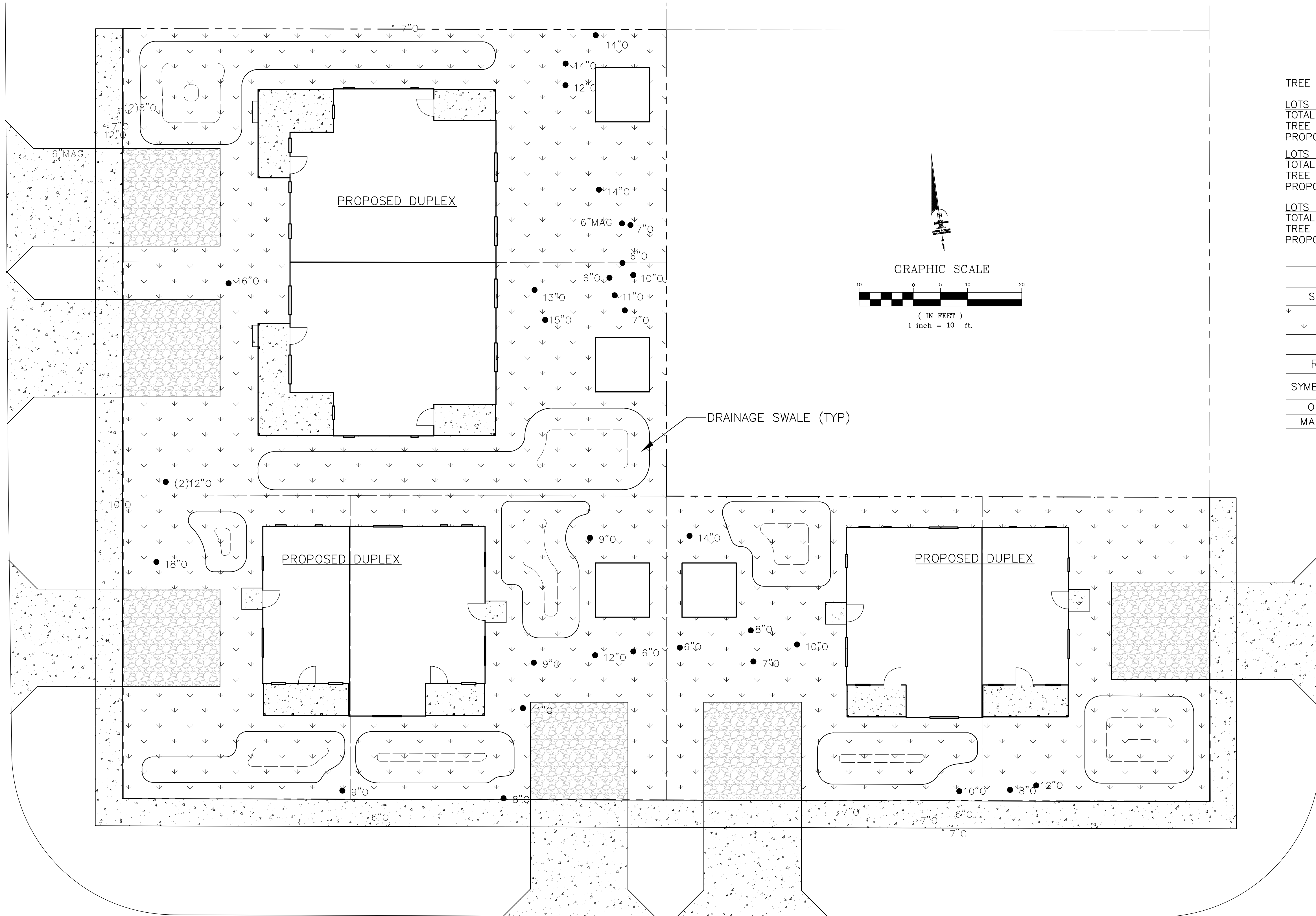
EXISTING TREE LEGEND		
SYMBOL	DESCRIPTION	QTY.
X	TREE TO BE REMOVED	54
O	TREE TO REMAIN	33
[1]	TREE ID NO.	—
O	OAK TREE	84
MAG	MAGNOLIA TREE	3

TREE PRESERVATION DATA CONT.				
TREE ID NO.	SIZE (DBH)	SAVED? (Y/N)	SPECIES	SAVED DBH
53	12	Y	OAK	12.0
54	12	Y	OAK	12.0
55	10	N	MAG	—
56	9	N	OAK	—
57	13	N	OAK	—
58	8	N	OAK	—
59	8	N	OAK	—
60	16	Y	OAK	16.0
61	8	N	OAK	—
62	7	N	OAK	—
63	9	N	OAK	—
64	8	N	OAK	—
65	7	N	OAK	—
66	9	N	OAK	—
67	9	N	OAK	—
68	8	N	OAK	—
69	15	Y	OAK	15.0
70	13	Y	OAK	13.0
71	11	Y	OAK	11.0
72	7	Y	OAK	7.0
73	6	Y	OAK	6.0
74	10	Y	OAK	10.0
75	6	Y	OAK	6.0
76	7	Y	OAK	7.0
77	6	Y	MAG	6.0
78	14	Y	OAK	14.0
79	10	N	OAK	—
80	12	Y	OAK	12.0
81	14	Y	OAK	14.0
82	14	Y	OAK	14.0
83	10	N	OAK	—
84	8	N	OAK	—
85	7	N	OAK	—
86	10	N	OAK	—
87	8	N	OAK	—
LOTS C+D TOTAL	341			175.0
COMBINED TOTAL	805			333.0

TOTAL LOT TREE PRESERVATION DATA	
PRE-DEVELOPMENT DBH	805
REQUIRED PRESERVATION (20%)	161
DBH SAVED	333

BUILDING FOOTPRINT TREE PRESERVATION DATA	
PRE-DEVELOPMENT DBH	213
REQUIRED REPLACEMENT (20%)	42.6
TOTAL LOT DBH SAVED	333
TOTAL LOT PRES. ALLOCATED DBH	161
PROVIDED FOOTPRINT REPLACEMENT FROM SAVED TREES	172

VERNON STREET (60-FT R/W)



ELM STREET (60-FT R/W)

S THIRTEENTH STREET (60-FT R/W)

RESIDENTIAL LANDSCAPE REQUIREMENTS

TREE REQUIREMENT: 1 SHADE TREE/2,500 SF

LOTS 1 AND 2

TOTAL LOT AREA: 5,621 SF

TREE REQUIREMENT: 5,621/2,500 = 3 SHADE TREES
PROPOSED TREES: 9 TREES TO REMAIN

LOTS 3 AND 4

TOTAL LOT AREA: 5,618 SF

TREE REQUIREMENT: 5,618/2,500 = 3 SHADE TREES
PROPOSED TREES: 8 TREES TO REMAIN

LOTS 5 AND 6

TOTAL LOT AREA: 8,623 SF

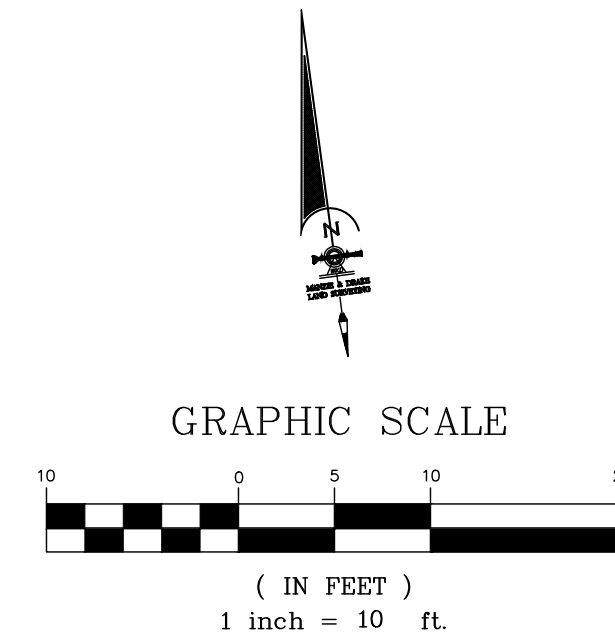
TREE REQUIREMENT: 8,623/2,500 = 4 SHADE TREES
PROPOSED TREES: 19 TREES TO REMAIN

NEW PLANT/MATERIAL SCHEDULE

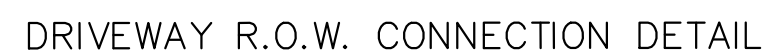
SYMBOL	QUANTITY	SPECIES
↓ ↓ ↓	11,958 SF	EREMOCHLOA OPHIUROIDES
↓ ↓ ↓		CENTPEDE GRASS

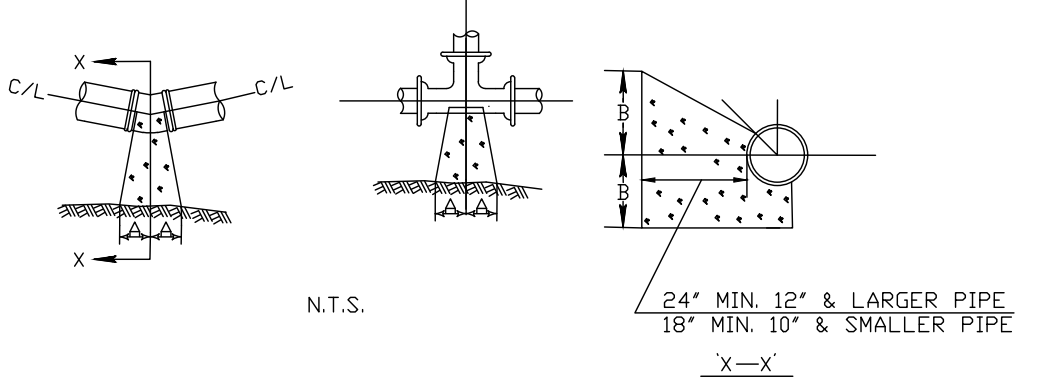
REMAINING TREE LEGEND

SYMBOL	DESCRIPTION	QTY.
O	OAK TREE	31
MAG	MAGNOLIA TREE	1



				Scale: 1" = 10'	Gillette & Associates, Inc. 20 South 4th Street Fernandina Beach, FL 32034	G & A GILLETTE & ASSOCIATES, INC. 20 SOUTH 4TH STREET FERNANDINA BEACH, FL 32034 PHONE: (904) 261-8819	VERNON AND ELM STREET HOMES	NASSAU HABITAT FOR HUMANITY	LANDSCAPE PLAN	Registered Professional	Sheet No. LS-2 8 of 10
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N.T.S.

24" MIN. 12" & LARGER PIPE
18" MIN. 10" & SMALLER PIPE

X-X

SIZE	1/4 BENDS CU FT			1/8 BENDS CU FT			1/16 BENDS CU FT			TEE CU FT			
	A	B	CONC.	A	B	CONC.	A	B	CONC.	A	B	CONC.	
6"	16"	10"	3.2	9"	10"	3.0	6"	8"	1.3	6"	10"	12"	3.5
8"	22"	13"	7.2	12"	13"	5.7	8"	10"	2.1	8"	13"	16"	5.4
10"	26"	17"	11.5	14"	17"	8.9	10"	13"	3.6	10"	16"	20"	9.4
12"	29"	21"	21.1	16"	21"	16.6	11"	16"	6.6	12"	18"	24"	16.6
14"	35"	24"	29.8	19"	24"	14.9	14"	20"	8.9	14"	20"	28"	23.2
16"	38"	27"	37.8	21"	27"	18.1	16"	24"	11.2	16"	24"	30"	28.6
20"	47"												

NOTE:
1. ALL BEARING SURFACES TO BE CARRIED TO UNDISTURBED SOIL.
2. THESE TABLES SHOW MINIMUM SIZE THRUST BLOCKS FOR GOOD SOIL,
(A-1 THROUGH A-3, CLEAN SAND AND GRAVELS)
3. POOR SOIL (A-4 THROUGH A-8, SILTY SOILS, CLAYS, MUCK AND PEAT) WILL
REQUIRE LARGER THRUST BLOCKS.

1. ALL MANHOLES SHALL BE PRECAST CONCRETE AND CONFORM TO ASTM C-478 STANDARDS. MANHOLE CONES AND RISERS SHALL BE CONSTRUCTED OF 4,00 PSI, TYPE II CEMENT WITH RIVER ROCK OR GRANITE AGGREGATE.

2. ALL PIPES SHALL BE CONNECTED TO THE MANHOLE USING A LOCK JOINT FLEXIBLE MANHOLE SLEEVE (ASTM C-923) OR APPROVED EQUAL.

3. THE EXTERIOR AND INTERIOR OF THE MANHOLE SHALL BE COATED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS WITH FABERTITE AS MANUFACTURED BY BRIGGS BITUMINOUS COMPOSITION COMPANY.

4. AN INSIDE PVC DROP MANHOLE (TYPE "B") SHALL BE REQUIRED FOR MANHOLES WHICH HAVE A DISTANCE OF 18 INCHES OR GREATER BETWEEN INFLUENT PIPE INVERT AND EFFLUENT PIPE INVERT. ALL OTHER DROPS SHALL HAVE A SLIDE CONSTRUCTED TO DIRECT THE FLOW INTO THE INVERT CHANNEL.

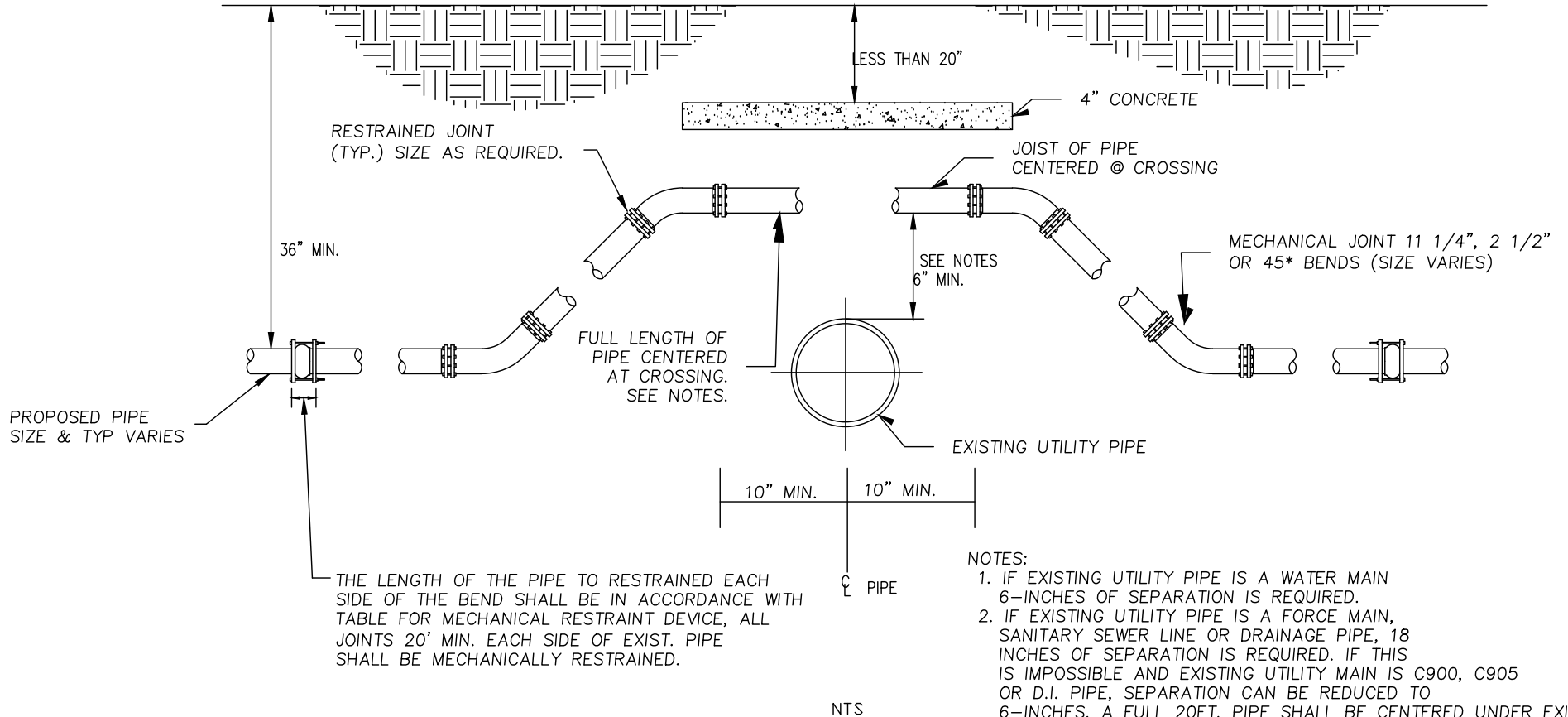
5. SEWER SERVICES SHALL BE CAST IRON IF 2FEET OF GROUND COVER CANNOT BE MAINTAINED OVER THE SERVICE LINE.

6. ALL DUCTILE IRON SEWER PIPE, WHERE SPECIFIED, SHALL BE CLASS 51 AND COMPLY WITH ANSI/AWWA C150/A21.50 AND ANSI/AWWA C151/A21.51. DUCTILE IRON PIPE SHALL BE PROVIDED WITH A FACTORY APPLIED INTERIOR POLYETHYLENE LINING IN ACCORDANCE WITH ANSI/ASTM D1248.

7. THE MAXIMUM NUMBER OF DIPS IS ONE, 1-INCH DIP PER 135 LF OF PIPE. NO MORE THAN ONE DIP PER 135 LF OF PIPE. A DIP IS DEFINED AS A CHANGE IN ELEVATION OF 0.5" OR GREATER.

THRUST BLOCKS FOR BENDS & TEE'S

GRAVITY SEWER NOTES



36" MIN.

RESTRAINED JOINT (TYP.) SIZE AS REQUIRED.

4" CONCRETE

JOIST OF PIPE CENTERED @ CROSSING

MECHANICAL JOINT 11 1/4", 2 1/2" OR 45° BENDS (SIZE VARIES)

EXISTING UTILITY PIPE

10" MIN. 10" MIN.

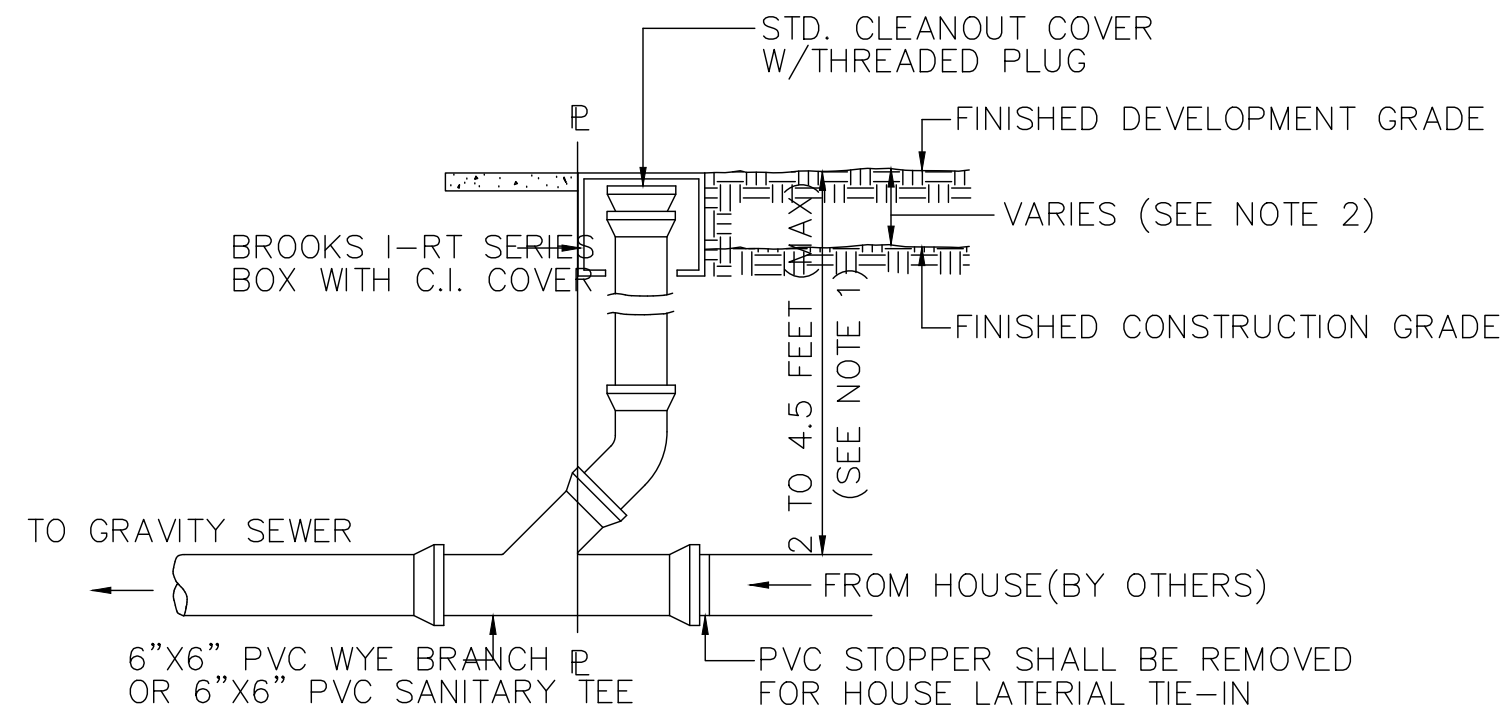
PIPE

THE LENGTH OF THE PIPE TO RESTRAINED EACH SIDE OF THE BEND SHALL BE IN ACCORDANCE WITH TABLE FOR MECHANICAL RESTRAINT DEVICE, ALL JOINTS 20' MIN. EACH SIDE OF EXIST. PIPE SHALL BE MECHANICALLY RESTRAINED.

THE LENGTH OF THE PIPE TO RESTRAINED EACH SIDE OF THE BEND SHALL BE IN ACCORDANCE WITH TABLE FOR MECHANICAL RESTRAINT DEVICE, ALL JOINTS 20' MIN. EACH SIDE OF EXIST. PIPE SHALL BE MECHANICALLY RESTRAINED.

NTS

NOTES:
1. IF EXISTING UTILITY PIPE IS A WATER MAIN 6-INCHES OF SEPARATION IS REQUIRED.
2. IF EXISTING UTILITY PIPE IS A FORCE MAIN, SANITARY SEWER LINE OR DRAINAGE PIPE, 18 INCHES OF SEPARATION IS REQUIRED. IF THIS IS IMPOSSIBLE AND EXISTING UTILITY MAIN IS C900, C905 OR D.I. PIPE, SEPARATION CAN BE REDUCED TO 6-INCHES. A FULL 20FT. PIPE SHALL BE CENTERED UNDER EXISTING UTILITY MAIN TO PROVIDE MAXIMUM JOINT SPACING FOR 18-INCH OR 6-INCH SEPARATIONS.
3. LOCATING WIRING REQUIRED. SEE DETAIL W-44.



STD. CLEANOUT COVER W/THREADED PLUG

FINISHED DEVELOPMENT GRADE

VARIES (SEE NOTE 2)

FINISHED CONSTRUCTION GRADE

TO GRAVITY SEWER

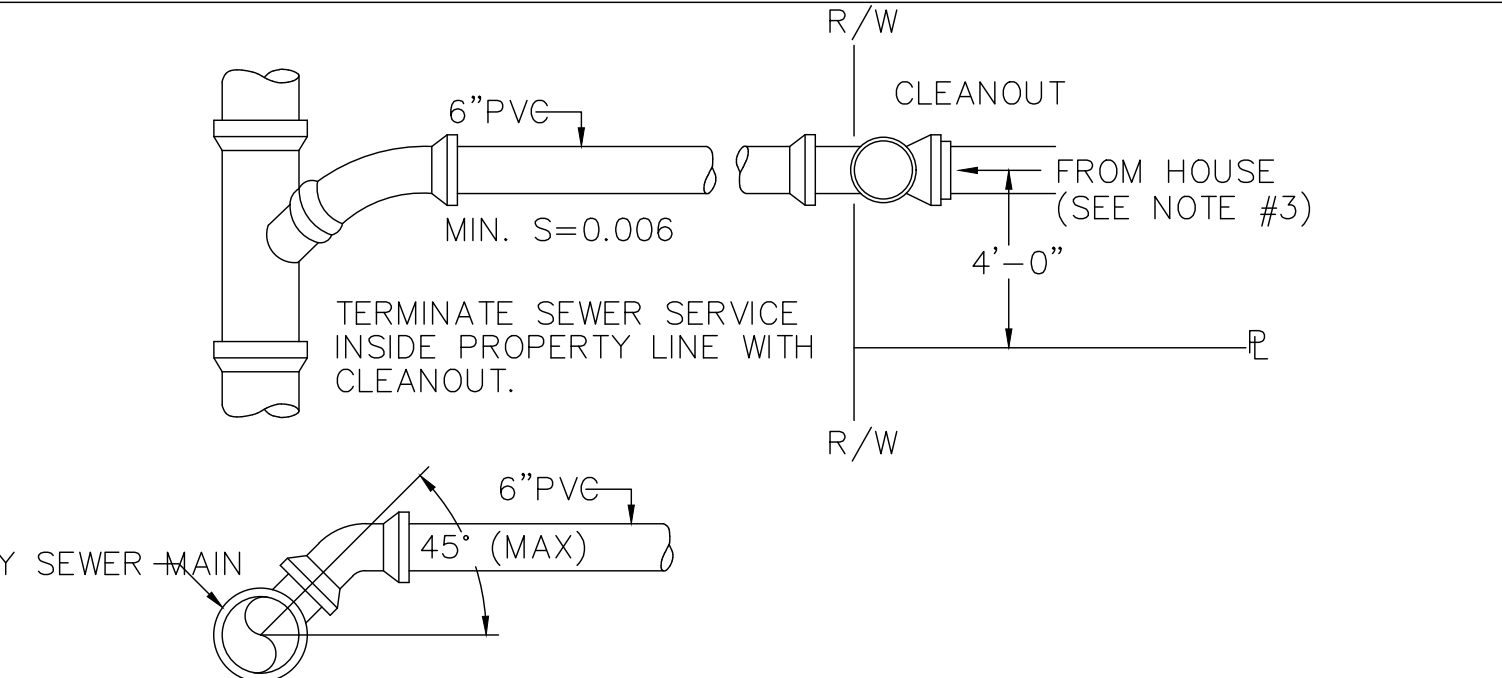
6"x6" PVC WYE BRANCH OR 6"x6" PVC SANITARY TEE

FROM HOUSE (BY OTHERS)

PVC STOPPER SHALL BE REMOVED FOR HOUSE LATERAL TIE-IN

2 TO 4.5 FEET (SEE NOTE 1)

NOTE:
1. DEPTH OF CLEANOUT SHALL BE SET BY DISTANCE TO HOUSE CONNECTION @ 1/4" PER FOOT, PLUS ONE FOOT.
2. CONTRACTOR TO COORDINATE DEPTH WITH DEVELOPER.



R/W

CLEANOUT

6"PVC

MIN. S=0.006

FROM HOUSE (SEE NOTE #3)

4'-0"

R/W

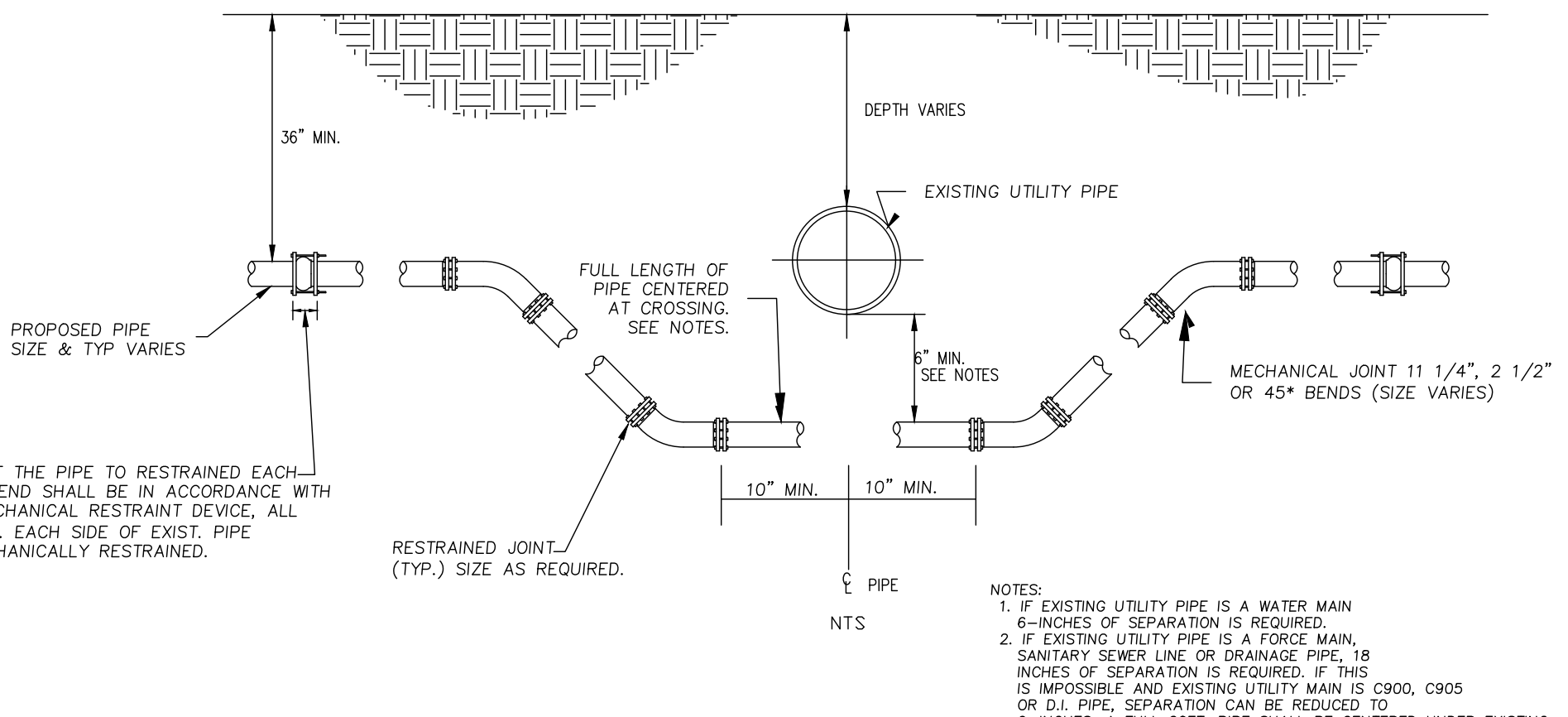
TERMINATE SEWER SERVICE INSIDE PROPERTY LINE WITH CLEANOUT.

GRAVITY SEWER MAIN

6"PVC

45° (MAX)

NOTE:
1. SEWER SERVICE SHALL BE INSTALLED 4'-0" INSIDE PROPERTY LINES.
2. TEMPORARY 4"x4"x8" POST, PAINTED RED AT TOP, TO BE INSTALLED FOR AIDING IN THE PROTECTION OF SEWER CLEAN OUTS. THE POST SHALL EXTEND 4' ABOVE GRADE.
3. CONNECTION FROM HOUSE TO UWF SYSTEMS SHALL BE A HARD CONNECTION. FLEXIBLE CONNECTIONS SHALL NOT BE USED.



36" MIN.

EXISTING UTILITY PIPE

DEPTH VARIES

10" MIN. 10" MIN.

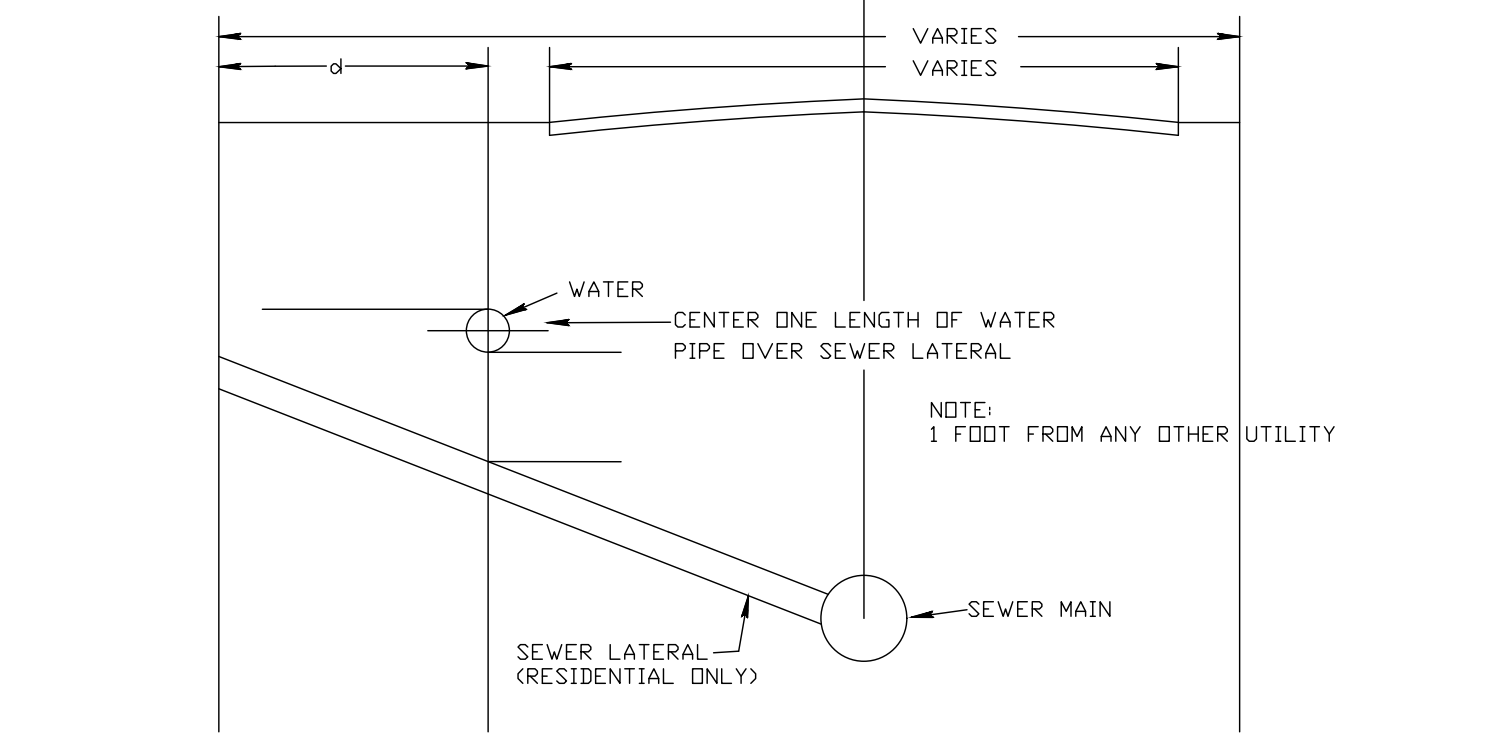
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3. LOCATING WIRING REQUIRED. SEE DETAIL W-44.



VARIES VARIES

WATER

CENTER ONE LENGTH OF WATER PIPE OVER SEWER LATERAL

NOTE: 1 FOOT FROM ANY OTHER UTILITY

SEWER LATERAL (RESIDENTIAL ONLY)

SEWER MAIN

NOTES:
1. MAINTAIN MINIMUM 6' HORIZONTAL SEPARATION BETWEEN WATER AND WASTE WATER MAINS. WHERE THIS IS NOT POSSIBLE REPLACE WASTE WATER MAIN WITH DUCTILE IRON FOR THE LENGTH IN WHICH THE 10' HORIZONTAL SEPARATION CANNOT BE MAINTAINED. (BY OTHERS)
2. MAINTAIN MINIMUM 6' VERTICAL SEPARATION BETWEEN ALL WATER AND WASTE WATER MAINS.
3. MAINTAIN MINIMUM 12' SEPARATION BETWEEN ALL OTHER FACILITIES

CONTRACTORS ARE REQUIRED TO PAINT NEW HYDRANTS SAFETY YELLOW AND MARK HYDRANTS. THE TOPS AND NOZZLE CAPS SHALL BE PAINTED WITH THE FOLLOWING CAPACITY INDICATOR COLOR SCHEME:

BLUE (SW4079)	1500GPM AND HIGHER
GREEN (SW4085)	1000-1499 GPM
ORANGE (SW4083)	500-999 GPM
RED (SW4081)	LESS THAN 500 GPM

IT IS REQUIRED THAT ALL NEW AND RELOCATED WATER MAINS BE PRESSURE TESTED AND LEAKAGE TESTED IN ACCORDANCE WITH AWWA STANDARD C600.

IT IS REQUIRED THAT ALL NEW AND RELOCATED WATER MAINS BE DISINFECTED IN ACCORDANCE WITH AWWA STANDARD C651 AND RULE 62-555.345, F.A.C..

ALL WATER MAINS WILL BE CONSTRUCTED WITH BLUE C900-DR25 PIPE
ALL WATER SERVICES WILL CONSTRUCTED WITH WHITE PVC SCHEDULE 80 PIPE. BLUE SPRAY PAINT WILL BE APPLIED TO THE TOP SURFACE.
JOINT RESTRAINERS MAY BE USED IN PLACE OF THRUST BLOCKS ON C900, DR25 PIPE. WITH APPROVAL OF THE CITY UTILITIES DEPARTMENT.

UTILITY CONFLICT DETAIL "B"

HORIZONTAL AND VERTICAL CLEARANCES

POTABLE WATER NOTES

K

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D

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B

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No.

By

12/05/19

11/27/19

10/31/19

REVISED PER TRC COMMENTS

DRAINAGE REVISIONS

TRC SUBMITTAL #1

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VERNON AND ELM STREET HOMES

NASSAU HABITAT FOR HUMANITY

WATER & SEWER DETAILS

Registered Professional

Sheet No.
DT-2

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Project No.
19-XX-XX