

All construction shall be performed in accordance with the approved plans and comply with all standard city policies and practices. City approval is contingent upon any required state or federal permit approvals such as those from the Department of Environmental Protection or the St. Johns River Water Management District (SJRWMD).

Plan approval through Development Services does not include utilities. Proposed water, sewer or electric construction must be approved separately through the respective utility company. In most cases, this will be:

JEA  
JEA Tower - 4th Floor  
21 W. Church Street  
Jacksonville, FL 32202  
<http://www.jea.com/business/services/devandbuild/devlopers.asp>

CITY: Except for new subdivision infrastructure construction, all work performed within a City of Jacksonville right-of-way or easement requires a Right-of-way Permit. The contractor performing the proposed work must have a current Right-of-way Bond on file with Development Services. Right-of-way Permit applications are processed at:

Development Services Customer Service Center  
Edward Ball Building, 2nd Floor  
214 N. Hogan St.  
Jacksonville, FL 32202  
(904) 255-8572  
<http://www.jardev.info/>

STATE: All work performed within a state right-of-way requires a permit from the Florida Department of Transportation (FDOT). It is the developer's responsibility to obtain required FDOT permits or maintenance-of-traffic approvals for work within FDOT right-of-ways. The FDOT regional office can be contacted at (904) 360-5200 Any changes to the approved plans needed for FDOT approval must be submitted to Development Services as revisions.

Adjacent State Roads: US-1, FL-115

RAILROAD: Railroad companies may require special approvals or permits to work within their right-of-ways. It is the developer's responsibility to obtain permission from any railroad right-of-way owner before performing any work within their right-of-way.

Annual reports in compliance with the SJRWMD stormwater permits are required from the maintenance entity of all stormwater management facilities. Send copies of the reports to:

Engineering and Construction Management  
Edward Ball Building, 10th Floor  
214 N. Hogan St.  
Jacksonville, FL 32202  
<http://www.coj.net/Departments/Public+Works/Engineering+and+Construction+Management/>

The owner of any project one (1) acre or larger is required to provide a Notice of Intent (NOI) in accordance with criteria set forth in the city's NPDES permit within 48 hours of beginning construction. Send NOI and NOI fee to:

Florida Department of Environmental Protection  
NPDES Stormwater Notices Center, Mail Station #2510  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400  
(866) 336-6312  
<http://www.dep.state.fl.us/water/stormwater/npdes/>

The contractor shall contact the Environmental Quality Division, Erosion and Sedimentation Control Section (ESC) to provide verification that applicable stormwater permits have been obtained and to schedule a pre-construction ESC site inspection:

Environmental Quality Division  
407 North Laura Street, Third Floor  
Jacksonville, FL 32202  
(904) 255-7222

Plan review and approval does not relieve the contractor of complying with all applicable State Fire Codes.

Underground mains and hydrants shall be installed, completed, and in service prior to construction work.

Underground contractor shall submit to the Fire Marshall for approval complete specs for all underground pipe and fittings relating to fire protection PRIOR to installation and inspection. Contractor shall include manufacturer's name and pipe ID along with contractor's state license number.

A Site Work Permit is required for this project.

☐ Tree Fund payment is due: \_\_\_\_\_ inches at \$ \_\_\_\_\_ = \$ \_\_\_\_\_

☐ Article 25 funds are due: \_\_\_\_\_ inches at \$ \_\_\_\_\_ = \$ \_\_\_\_\_

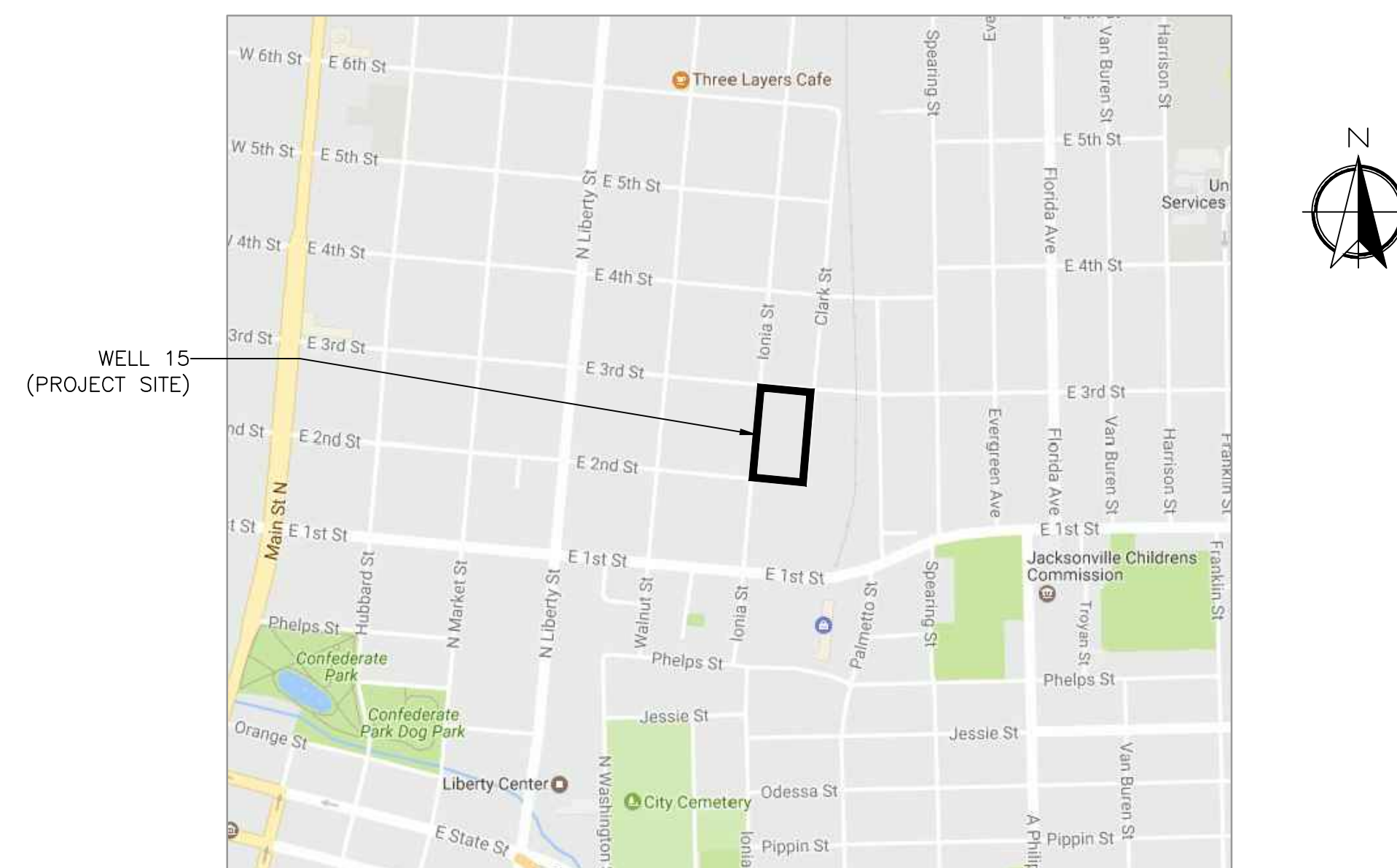
TRAFFIC SIGNS			
Metro Name	_____	\$55.00	ea. _____
Standard	_____	\$55.00	ea. _____
Stop/Yield	_____	\$55.00	ea. _____
Design	_____	\$55.00	_____
Installation	_____	\$55.00	/hr. _____
TOTAL		_____	

☐ Streetlights Required

NOTE: Traffic sign costs change from time to time. If the costs change after plan approval but prior to payment for installation, the developer must pay for the signs at the current costs. The above total assumes the subdivision will be platted as one phase. If the development is platted as separate phases, design and installation will be calculated separately for each phase.

No lane closures allowed from 7 a.m. till 9 a.m. and from 4 p.m. till 6 p.m.

JEA PROJ NO.: 8003508



**VICINITY MAP**  
NOT TO SCALE

**CDM  
Smith**



**JEA**<sup>sm</sup>  
Building Community<sup>sm</sup>

ISSUED FOR BID  
APRIL 2017

Date	Development Services Division (Chief)
Date	Review Group (Reviewer)

[illegible]

<b>GENERAL</b>	
City Development Number	_____
Concurrency Application Number	_____
Property Appraiser Number (RE #)	_____
Zoning Designation	_____
PUD Ordinance Number	_____
FIRM – Community – Panel	_____
Flood Zones (Show in Plans)	_____
Base Flood Elev. (Show in Plans)	_____
Vertical Datum Used for Project	NAVD 88
JEA Availability Number	_____
 <b>SUBDIVISION</b>	
PSD Number	_____
City or Private Inspection	_____
Public or Private Roads	_____
Subdivision ("911") Disk Provided?	_____
 <b>NON-SUBDIVISION</b>	
North American Industry	_____
Classification System (NAICS)	_____
Impervious Area (Sq. Ft.)	_____

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: B. SCHNEIDER  
DRAWN BY: D. MOHLE  
SHEET CHK'D BY: J. HEALY  
CROSS CHK'D BY: L. WISEMAN  
APPROVED BY: I. POLEMATIDIS  
DATE: APRIL 2017



8381 Dix Ellis Trail, Suite 400  
Jacksonville, FL 32256  
Tel: (904) 731-7109  
FL COA No. EB-0000020

JEA

# MAIN STREET WELLFILED WELL NO. 15 WELL CONSTRUCTION

# JEA GENERAL NOTES AND SHEET INDEX

DATE:  
IOANNIS POLEMATIDIS  
PE NO. 75392

PROJECT NO. 6103-216210  
FILE NAME: G001GNSI.DWG

SHEET NO

G-1

SURVEY AND LOCATE DATA:

- |                                     |                                     |   |
|-------------------------------------|-------------------------------------|---|
|                                     |                                     |   |
| NOT APPLICABLE                      | APPLICABLE                          |   |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 1. ALL ELEVATIONS ARE BASED ON U.S.C & G.S. DATUM AND SHOWN IN FEET.  |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 2. ELEVATIONS ARE BASED ON N.A.V.D. 1988.   |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 3. LOCATION OF EXISTING UTILITIES OBTAINED BY SOFT DIG LOCATES WHERE SHOWN ON PLANS, OR INCLUDED WITH SPECS.  |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 4. EXISTING WATER AND SEWER LINES ARE SHOWN AS PER FIELD LOCATES AND JEA AS-BUILT PLANS.  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 5. UNDERGROUND UTILITIES WERE LOCATED UTILIZING GROUND PENETRATING RADAR (GPR) AND A DIGITAL LOCATOR. CONTRACTOR SHALL BE AWARE THAT IN SOME CASES UTILITIES HAVE BEEN LOCATED, AND SURVEY HAS BEEN COMPLETED ONLY ON ONE SIDE OF THE ROAD. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 6. ALL PIPE LENGTHS SHOWN ON PLAN AND PROFILES ARE FROM CENTER TO CENTER OF MANHOLES, CATCH BASINS, INLETS ETC. OR ALONG THE CENTER LINE OF FORCE MAINS AND WATER MAINS.  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 7. INVERT ELEVATIONS SHOWN ON DRAWINGS REFER TO THE CENTERLINE OF MANHOLES, UNLESS OTHERWISE INDICATED.   |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 8. THE LOCATION OF ALL EXISTING SEWER AND WATER SERVICE LINES MAY NOT BE INDICATED ON THESE PLANS. THE LOCATION OF NEW SERVICES SHALL BE VERIFIED IN THE FIELD.   |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 9. BENCHMARK DATA: REFERENCE BENCHMARK NAIL AND DISK (LB 0811) FOUND SOUTHWEST OF THE PROPOSED WELL NEAR THE INTERSECTION OF THE EAST 2ND STREET AND IONIA STREET AT 17.95 NAVD88.  |

**PERMIT REQUIREMENTS (NOT ALL INCLUSIVE):**

- |                                     |                                     |     |   |
|-------------------------------------|-------------------------------------|-----|---|
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 1.  | CONTRACTOR TO OBTAIN ALL REQUIRED RIGHT-OF-WAY PERMITS.   |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 2.  | CONTRACTOR SHALL NOT OPEN CUT STREETS IN THE PROJECT AREA UNLESS SPECIFICALLY SHOWN ON PLANS  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 3.  | THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A CONSUMPTIVE USE PERMIT (C.U.P.) THROUGH THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT SHOULD DEWATERING ACTIVITIES BE REQUIRED.   |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 4.  | THE DEPARTMENT OF TRANSPORTATION, RAILROAD COMPANIES AND C.O.J. ARE TO BE NOTIFIED IN ADVANCE OF CONSTRUCTION FOR THEIR RESPECTIVE PERMIT CONDITIONS.   |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 5.  | ALL WORK SHALL BE IN ACCORDANCE WITH JEA WATER AND SEWER STANDARDS, DETAILS AND MATERIALS MANUAL, REV. 4/01, AND CITY OF JACKSONVILLE STANDARD SPECIFICATIONS AND DETAILS AND ALL APPLICABLE STATE AND LOCAL REGULATIONS.   |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 6.  | IF SOLVENT CONTAMINATION IS FOUND IN THE PIPE TRENCH, WORK SHALL BE STOPPED AND THE PROPER AUTHORITIES NOTIFIED. WITH APPROVAL OF THE PERMITTING AGENCY, DUCTILE IRON PIPE, FITTINGS AND SOLVENT RESISTANT GASKET MATERIAL SHALL BE USED IN THE CONTAMINATED AREA. THE DUCTILE IRON PIPE SHALL EXTEND AT LEAST 100 FEET BEYOND ANY SOLVENT NOTED. |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 7.  | THE CONTRACTOR SHALL NOTIFY APPLICABLE UTILITY CONTACT PERSONNEL NOT LESS THAN ONE WEEK PRIOR TO CONSTRUCTION OF FACILITIES IN THEIR RESPECTIVE AREAS.  |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 8.  | TREE PROTECTION SHALL BE IN ACCORDANCE WITH JACKSONVILLE ORDINANCE CODE 656 AND/OR AS DETAILED ON SPECIFIC PLAN SHEETS. NO TRIMMING OF OVERHANGING TREE LIMBS WILL BE ALLOWED. USE SMALLER EQUIPMENT IF NECESSARY.  |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 9.  | THE CONTRACTOR SHALL LOCATE THE DRAINAGE INLET STRUCTURES IN THE PROJECT AREA AND ERECT SEDIMENTATION CONTROL DEVICES AS NECESSARY PER THE CITY OF JACKSONVILLE STORMWATER POLLUTION PREVENTION PLAN.   |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 10. | CONTRACTOR TO COORDINATE WORK WITH OTHER UTILITIES DURING CONSTRUCTION.   |
- APPLICABLE  
APPLICABLE

### EXISTING UTILITY PROTECTION:

1. IN ORDER TO REDUCE THE DISRUPTION AND COST OF UTILITY DAMAGES OCCURRING IN THE FOOT OR DUVAL COUNTY RIGHT-OF-WAY AND EASEMENTS, THE CONTRACTOR SHALL PREVENT DAMAGES TO EXISTING UTILITIES CAUSED BY HIS WORK THROUGH FIELD VERIFICATION OF THE LOCATION OF THE EXISTING UTILITIES. IN THE CASE OF OPEN EXCAVATION, VERIFICATION MAY BE PERFORMED DURING THE CONTRACTORS WORK. IN THE CASE OF DIRECTIONAL DRILLING, VERIFICATION SHALL TAKE PLACE PRIOR TO MOBILIZATION OF THE DRILLING EQUIPMENT.
2. THE CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING UTILITIES AS NEEDED TO AVOID CONTACT. EXISTING UTILITIES SHALL BE EXPOSED USING DETECTION EQUIPMENT OR OTHER ACCEPTABLE MEANS, SUCH METHODS MAY INCLUDE BUT SHALL NOT BE LIMITED TO "SOFT DIG" EQUIPMENT AND GROUND PENETRATING RADAR (GPR). THE EXCAVATOR SHALL BE HELD LIABLE FOR DAMAGES CAUSED TO THE CITY'S/JEA'S INFRASTRUCTURE AND THE EXISTING FACILITIES OF OTHER UTILITY COMPANIES.
3. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND AVOID ALL UTILITIES, OTHER STRUCTURES AND OBSTRUCTIONS BOTH ABOVE AND BELOW GROUND SURFACE. ALL DAMAGE RESULTING FROM THE CONTRACTOR'S FAILURE TO COMPLY WITH THIS REQUIREMENT SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
4. CONTRACTOR IS RESPONSIBLE FOR SUPPORTING/ HOLDING ELECTRIC DISTRIBUTION POLES ADJACENT TO ANY OPEN EXCAVATIONS. POLES SUPPORT/ HOLDING ACTIVITY CAN BE PERFORMED BY JEA FORCES IF AVAILABLE OR A PRE-APPROVED JEA DISTRIBUTION ELECTRIC CONTRACTOR. COST ASSOCIATED WITH THIS WORK IS THE RESPONSIBILITY OF THE CONTRACTOR.

## RESTORATION NOTES:

1. THE CONTRACTOR SHALL EMPLOY A LAND SURVEYOR, REGISTERED IN THE STATE OF FLORIDA, TO REFERENCE AND RESTORE PROPERTY CORNERS AND LANDMARKS WHICH MAY BE DISTURBED BY CONSTRUCTION, KNOWN CORNER LOCATIONS ARE AVAILABLE FROM THE CITY OF JACKSONVILLE ENGINEERING DIVISION.
2. THE CONTRACTOR SHALL RESTORE/REPLACE ALL CULVERTS, HEADWALLS AND STORM DRAIN INLETS REMOVED OR DISTURBED BY THE CONSTRUCTION OPERATION.
3. TRAFFIC SIGNS AND PAVEMENT MARKINGS SHALL BE RESTORED TO THEIR PRE-CONSTRUCTION CONDITION IN ACCORDANCE WITH CITY OF JACKSONVILLE/FDOT STANDARD SPECIFICATIONS.
4. SIDEWALKS, DRIVEWAYS AND CURBING DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED IN ACCORDANCE WITH JACKSONVILLE STANDARD SPECIFICATIONS. SIDEWALKS REMOVED AND REPLACED IN CURB AND GUTTER AREAS AT INTERSECTIONS SHALL HAVE HANDICAP RAMPS INSTALLED. DRIVEWAYS AND SIDEWALKS SHALL BE SAWCUT ALONG THE RIGHT-OF-WAY LINE OR NEAREST JOINT AND REMOVED AND REPLACED TO THE EDGE OF STREET.
5. GRASS SOD SHALL BE FURNISHED AND PLACED IN THE AREAS DISTURBED OR DAMAGED BY THE CONSTRUCTION OPERATION UNLESS OTHERWISE NOTED ON DRAWINGS.
6. ALL PAVEMENT REPAIR SHALL BE IN ACCORDANCE WITH THE CITY OF JACKSONVILLE/FDOT STANDARD DETAILS AND SPECIFICATIONS LATEST EDITION.
7. UNLESS OTHERWISE NOTED, REMOVE AND REPLACE EXISTING PAVEMENT AS PER DETAILS ON SHEET \_\_\_\_ PAVEMENT REPLACEMENT DETAIL.
8. CONTRACTOR MUST MAINTAIN AND PRESERVE NEWLY GRADED AREAS AND REPAIR AREAS WHERE SETTLING AND EROSION HAVE OCCURRED.

UTILITY CONTACTS:

A. AMERICAN TELEPHONE & TELEGRAPH CO. _____	904-353-2229
B. BELL SOUTH TELEPHONE CO. - GARRETT RIGBY - PM NORTH DISTRICT _____	904-519-2544
C. BELL SOUTH TELEPHONE CO. - LARRY KEELS - PM SOUTH DISTRICT _____	904-519-2529
D. CITY OF JACKSONVILLE PUBLIC WORKS DEPT. _____	904-630-1669
E. CITY OF JACKSONVILLE STREETS AND DRAINAGE DEPT. _____	904-630-1341
F. CITY OF JACKSONVILLE TRAFFIC ENGINEERING DEPT. _____	904-387-8863
G. FLORIDA DEPT. OF TRANSPORTATION _____	904-381-8778
H. JEA - COLLECTION & DISTRIBUTION _____	904-665-8491
I. JEA - GENERAL INFORMATION _____	904-665-6000
J. JEA - PROJECT OUTREACH _____	904-665-7500
K. JEA - POWER OUTAGES _____	904-665-0300
L. JEA - SEWER PROBLEMS _____	904-665-4802
M. JEA - WATER PROBLEMS _____	904-665-4801
N. JEA - WATER & SEWER LOCATES _____	904-665-7611
O. COMCAST _____	904-380-6423
P. MOBILE ONE _____	904-733-9533
Q. TECO/PEOPLES GAS - ENGINEERING TECHNICIAN _____	904-739-1211
R. SUNSHINE ONE CALL _____	800-432-4770

## INSTALLATION NOTES:

- |                                     |                                     |     |   |
|-------------------------------------|-------------------------------------|-----|---|
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 1.  | CONTRACTOR TO REHABILITATE ALL MANHOLES ON PIPE BURST SEWERS VIA COATING/LINING PER JEA SPECIFICATION 446-2, UNLESS OTHERWISE NOTED ON THE PLANS.   |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 2.  | CONTRACTOR TO REPLACE AS APPLICABLE ALL SERVICE LATERALS AND WATER SERVICES TO R.O.W. LINE THAT ARE IMPACTED DURING CONSTRUCTION.   |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 3.  | CONTRACTOR TO INSTALL SEWER SERVICE PIPING A MINIMUM OF 60 INCHES BELOW GRADE. WHERE NEW SANITARY SEWER MAIN IS LESS THAN 5 FEET DEEP, THE SEWER SERVICE PIPE SHALL BE INSTALLED AS DEEP AS POSSIBLE.   |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 4.  | <p>WHEN THE DISTANCE BETWEEN A POWER POLE AND THE TRENCH IS LESS THAN THE TRENCH DEPTH, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH JEA ELECTRICAL PERSONNEL TO SECURE POWER POLES. THE CONTACTS FOR JEA ARE AS FOLLOWS:</p> <p>NORTHSIDE-EAST OF US-1 MIKE CORBITT @ 665-7991 (mobile 662-0635)</p> <p>NORTHSIDE-WEST OF US-1 ANDY YEAGER @ 665-7998 (mobile 662-0622)</p> <p>NORTHSIDE-BACKUP ALAN INSLEY @ 665-7303 (mobile 662-6557)</p> <p>SOUTHSIDE-SOUTH OF BEACH BLVD. TOM KERNS @ 665-6847 (mobile 860-1687)</p> <p>SOUTHSIDE-NORTH OF BEACH BLVD. DERYL BASFORD @ 665-6855 (mobile 662-0616)</p> <p>SOUTHSIDE-BACKUP EDDIE GALES @ 665-6855 (mobile 662-0616)</p> <p>A MINIMUM OF TWO (2) WORKING DAYS NOTICE IS REQUIRED FOR AN OUTSIDE MEETING WITH JEA ELECTRICAL TO DISCUSS THE REQUIRED WORK. ADDITIONAL TIME WILL BE REQUIRED BY JEA ELECTRICAL FOR ANY REQUIRED WORK TO BE ACCOMPLISHED.</p> |
| <input type="checkbox"/>            | <input type="checkbox"/>            | 5.  | ALL NEW STORM DRAIN PIPE JOINTS SHALL BE WRAPPED WITH FILTER FABRIC.  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 6.  | THE DESIGN FOR THE PROJECT IS BASED UPON THE "OPEN-CUT" METHOD OF CONSTRUCTION. IF USING ALTERNATIVE MEANS OR METHODS, THE CONTRACTOR SHALL FOLLOW ALL APPLICABLE STANDARDS FOR THAT MEANS OR METHOD.   |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 7.  | THE CONTRACTOR SHALL MINIMIZE SERVICE INTERRUPTIONS AT SERVICE CONNECTIONS. THE MEANS AND METHODS SHALL BE LEFT TO THE DISCRETION OF THE CONTRACTOR, SUBJECT TO THE REQUIREMENTS OF THE CONTRACT SPECIFICATIONS. NO EXISTING ACTIVE SERVICE SHALL BE LEFT INTERRUPTED AT THE END OF THE WORK DAY.   |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 8.  | CONTRACTOR SHALL PROVIDE ADDITIONAL CORPORATION STOPS FOR FILLING AND DRAINING PURPOSES DURING CONSTRUCTION AS NEEDED. CORPORATION STOPS ARE TO BE PLUGGED AND LEFT IN PLACE. INDICATE CORPORATION STOP LOCATIONS ON RECORD DRAWINGS (AS-BUILTS).   |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 9.  | WATER AND SEWER SERVICES SHALL BE TRANSFERRED TO THE NEW MAIN UPON COMPLETION AND F.D.E.P./J.E.A. CERTIFICATION, AND PRIOR TO THE EXISTING MAINS BEING ABANDONED.   |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 10. | IF EXISTING VALVES ARE IN UNPAVED AREAS AND ARE TO BE TAKEN OUT OF SERVICE, THEY SHALL BE CLOSED AND THE VALVE BOX AND COVER SHALL BE REMOVED. IF THE VALVES ARE UNDER PAVED AREAS, THEY SHALL BE CLOSED, THE VALVE BOX GROUT FILLED AND THE COVER REMOVED.   |

## INDEX OF DRAWINGS:

		SHEET NUMBER		DRAWING NUMBER		DRAWING TITLE	
NOT APPLICABLE	APPLICABLE	<u>DRAWING</u>		1	G-0	COVER SHEET	
		<u>NUMBER</u>	<u>SHEET TITLE</u>	2	G-1	JEA GENERAL NOTES AND SHEET INDEX	
				3	G-2	GENERAL NOTES AND LEGEND	
<u>REFERENCE DRAWINGS</u>							
<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	W-STD-1	WATER MAIN DETAILS	4	C-1	WELL NO. 15 SITE PLAN AND WELL CONSTRUCTION DETAILS	
		W-STD-2	WATER MAIN DETAILS	5	CD-1	WELL NO. 15 TEMPORARY WELLHEAD DETAILS	
		W-STD-3	WATER MAIN DETAILS				
		W-STD-4	WATER MAIN DETAILS				
<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	W-STD-5	WATER MAIN DETAILS				
		S-STD-1	SANITARY SEWER DETAILS				
		S-STD-2	SANITARY SEWER DETAILS				
		S-STD-3	SANITARY SEWER DETAILS				
		S-STD-4	SANITARY SEWER DETAILS				
<input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	S-STD-5	SANITARY SEWER DETAILS				
<input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	PUMP STATION CONSTRUCTION DETAILS					
		PS-STD-1	MISCELLANEOUS DETAILS				
<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	PUMP STATION ELECTRIC DETAILS					
		PS-STD-2	ELECTRIC DETAILS				
		PS-STD-3	DEMARCATION BOX & POWER DISTRIBUTION PANEL				
<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	PS-STD-4	SCADA INSTALLATION				
		PS-STD-5	SCADA INSTALLATION				
		PS-STD-6	GROUNDING PLAN				
		PS-STD-7	GROUNDING DETAILS				
		PS-STD-8	ELECTRIC SINGLE LINE DIAGRAM				

NOTE:

1. DETAILS PROVIDED ON THE ATTACHED DRAWINGS GOVERN OVER THOSE LISTED ABOVE. FOR DETAILS NOT PROVIDED IN THE DOCUMENTS, PLEASE REFER TO JEA STANDARD DETAILS.
2. STANDARD DRAWINGS ARE APPLICABLE FOR ALL PROJECTS, INCORPORATED BY REFERENCE AND ARE AVAILABLE AT [JEACOM](http://JEACOM)

- | NOT APPLICABLE                      | APPLICABLE                          |   |
|-------------------------------------|-------------------------------------|---|
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 11. CONTRACTOR SHALL REPLACE EXISTING WATER METER BOXES WHEN DEEMED NECESSARY BY THE JEA INSPECTOR.   |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 12. CONTRACTOR TO PROVIDE ADDITIONAL DEPTH OF BURY VIA PIPE JOINT DEFLECTION TO ACCOMMODATE VALVE SELECTION PER JEA STANDARDS.  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 13. WATER METERS MAY REQUIRE RELOCATION FOR CONSTRUCTION, CONTRACTOR SHALL CONTACT JEA METER DEPARTMENT AND RELOCATE WATER METERS AS NECESSARY.   |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 14. PRIOR TO COMMENCING ANY EXCAVATION OR GRADING, THE CONTRACTOR SHALL OBTAIN ALL GEOTECHNICAL AND TOPOGRAPHIC SURVEY DATA AND LOCATIONS OF ABOVE GROUND AND UNDERGROUND UTILITIES. SHOULD THE CONTRACTOR DISCOVER ANY INACCURACIES, ERRORS OR OMISSIONS IN THE SURVEY DATA, HE SHALL IMMEDIATELY NOTIFY THE DESIGN ENGINEER IN ORDER THAT PROPER ADJUSTMENTS CAN BE ANTICIPATED AND ORDERED.  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 15. SHEET PILING WILL BE REQUIRED ON ALL EXCAVATIONS DEEPER THAN 16 FEET.   |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 16. ZERO JOINT DEFLECTION WILL BE ALLOWED ON 20" OR LARGER PVC PRESSURE PIPE. THE MAXIMUM JOINT DEFLECTION SHALL BE LIMITED TO 60% OF THE PIPE MANUFACTURER'S RECOMMENDATION ON ALL 20" OR LARGER DUCTILE IRON PRESSURE PIPE. THE CONTRACTOR SHALL PROPERLY INSPECT THE INSTALLATION OF ALL PIPE JOINTS TO ENSURE THESE JOINT DEFLECTION LIMITS ARE NOT EXCEEDED. SPLIT DEFLECTION ANGLES(HORIZONTAL AND VERTICAL) EQUALLY BETWEEN MINIMUM OF 2 PIPE JOINTS.  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 17. THE CONTRACTOR SHALL INSTALL TWO 45° BENDS IN LIEU OF A SINGLE 90° DI MJ BEND AT CHANGES IN THE PIPELINE ALIGNMENT AND AS SHOWN ON THE DRAWINGS. IF THE SEPARATION BETWEEN THE TWO 45° BENDS IS LESS THAN 10 FEET, THE BENDS SHALL BE RESTRAINED TOGETHER WITH TIE-RODGING PER THE FITTING MANUFACTURER'S RECOMMENDATION.   |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 18. CONTRACTOR SHALL FOLLOW JEA STANDARDS AND ALL APPLICABLE REGULATORY AGENCY REQUIREMENTS IF ANY ASBESTOS CEMENT PIPE IS IMPACTED DURING CONSTRUCTION.  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 19. THE CONTRACTOR SHALL RESTRAIN ALL JOINTS ON ANY EXISTING PRESSURE MAINS THAT ARE EXPOSED DURING CONSTRUCTION ACTIVITIES.  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESSURE AND LEAKAGE TESTING ALL NEW WATER MAINS IN THIS PROJECT. THE PRESSURE TEST SECTIONS SHALL BE BETWEEN ADJACENT PERMANENT INLINE VALVES AND A STUB-OUT PLUG. AFTER SUCCESSFUL COMPLETION OF THE PRESSURE TEST, THE CONTRACTOR SHALL LEAVE THE PRESSURE TEST WATER IN THE PIPELINE. THE CONTRACTOR SHALL NOT PERFORM SWABBING OR DISINFECTION TESTING ON THE NEW TWMP WATER MAIN. HOWEVER THE CONTRACTOR WILL STILL BE RESPONSIBLE FOR THESE ACTIVITIES PER JEA STANDARDS ON ANY REPLACED SMALL DIAMETER DISTRIBUTION WATER MAINS INCLUDING 16-INCH WATER MAIN FOR INTER-TIE ON CENTURY STREET. |



XREFs: [CDMS-2436] Images: [ ]  
Last saved by: MOHLEDP Time: 4/22/2017 5:47:41 PM  
pw:\JACPMAP2\PW.plt\6103\216210\_Phase 1\04\_Design Services NM\_Bldg\01 General\10 CADD\G002GNAL.dwg  
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#### NOTES:

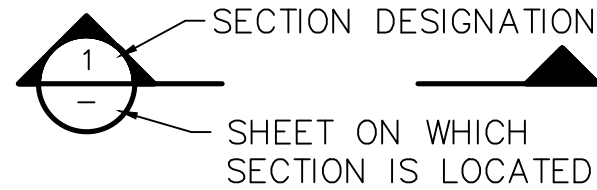
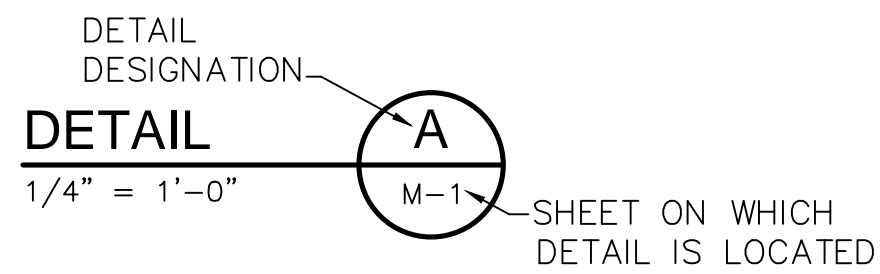
- CONTRACTOR SHALL CONTACT THE LOCAL PUBLIC UTILITIES LOCATING SERVICE TO LOCATE UTILITIES IN THE AREA PRIOR TO ANY EXCAVATION. ALL EXISTING UTILITIES MAY NOT BE SHOWN ON THE DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING EXISTING UTILITIES, WHETHER SHOWN OR NOT, AND FOR REPAIRING ALL DAMAGE TO UTILITIES.
- DISTURBANCE SHALL BE LIMITED TO THE TEMPORARY AND PERMANENT COJ RIGHT-OF-WAY, AREAS FOR WHICH FDOT ENCROACHMENT AGREEMENTS HAVE BEEN OBTAINED, APPROVED JEA OWNED PROPERTIES, AND CITY OF JACKSONVILLE RIGHT-OF-WAY STAGING AREAS PROCURED BY THE CONTRACTOR.
- CONTRACTOR IS RESPONSIBLE FOR PROCURING ALL MOBILIZATION, STORAGE, AND STAGING AREAS, AS WELL AS ACCESS TO THE CONSTRUCTION SITES WITHIN THE TEMPORARY AND PERMANENT COJ RIGHT-OF-WAY. EROSION CONTROL DEVICES SHALL BE INSTALLED AND MAINTAINED AT ALL WORK SITES AND STAGING AREAS. CONTRACTOR SHALL FOLLOW ALL LOCAL GUIDELINES AND REGULATIONS REGARDING THE WORK, INCLUDING KEEPING MUD AND DIRT OFF OF PUBLIC ROADS AND PRIVATE ENTRANCES, AND REHABILITATING STAGING, STORAGE, OR STOCKPILING AREAS TO EQUAL OR BETTER THAN EXISTING CONDITION. PROVIDE SUITABLE TEMPORARY INLET PROTECTION FOR STORM WATER PIPE CULVERTS BENEATH ROADWAYS AND DRIVEWAYS AS NEEDED DURING CONSTRUCTION.
- SOIL EXPLORATION WORK WAS PERFORMED BY MESKEL AND ASSOCIATES ENGINEERING, PLLC. OF JACKSONVILLE FL. SOILS EXPLORATION WORK IS SOLELY TO ASSIST BIDDERS IN ASSESSING THE NATURE AND EXTENT OF TESTING PROCEDURES REQUIRED TO MAKE THEIR OWN DETERMINATION OF ACTUAL SUBSURFACE CONDITIONS THAT WILL BE ENCOUNTERED DURING THE COURSE OF THE WORK. NO REPRESENTATION IS MADE OR WILL BE GIVEN BY THE ENGINEER CONCERNING ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED. ALL BIDDERS ARE DIRECTED PRIOR TO BIDDING TO CONDUCT ALL INVESTIGATIONS THEY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSIONS REGARDING SUCH CONDITIONS.
- OPEN ENDS OF PIPE SHALL BE SECURED TO PREVENT ENTRY AT END OF EACH WORK DAY.
- CONTRACTOR SHALL INSTALL THE APPROPRIATE SECURITY FENCING AND BARRIERS ON-SITE TO PREVENT PUBLIC ACCESS TO THE SITE AND ENSURE PUBLIC HEALTH AND SAFETY. REFER TO SPECIFICATION SECTION 01010 SUMMARY OF WORK.
- ANY PUBLIC LAND CORNER, PROPERTY MONUMENTATION, OR BENCHMARK WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY. ANY CORNER MONUMENT DISTURBED OR DESTROYED SHALL BE RESET BY A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA, AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL KEEP STREETS OPEN AT ALL TIMES AND SHALL MAINTAIN ACCESS TO EACH BUSINESS OR RESIDENCE ADJACENT TO THE WORK.
- THE CONTRACTOR SHALL CONTACT THE ENGINEER OR OFFICIAL JEA REPRESENTATIVE IMMEDIATELY REGARDING ANY CONFLICTS THAT ARISE DURING CONSTRUCTION OF WORK SHOWN ON THE DRAWINGS.
- THE CONTRACTOR SHALL ADHERE TO ALL CONDITIONS AND REQUIREMENTS OF ALL PERMITS THAT HAVE BEEN OBTAINED.
- ALL DRIVEWAYS, DRAINAGE PIPES, AND HEADWALLS SHALL BE RESTORED TO EQUAL OR BETTER THAN EXISTING CONDITION, IN BOTH NEW AND EXISTING RIGHTS-OF-WAY AND WITHIN ANY TEMPORARY EASEMENT AREAS. ANY STRUCTURES OR DRIVEWAYS DISTURBED OUTSIDE THE RIGHT-OF-WAY OR EASEMENTS SHALL ALSO BE FULLY RESTORED AT NO COST TO THE OWNER OR PROPERTY OWNER.
- CONTRACTOR SHALL PROTECT ALL DRAIN STRUCTURES, PIPES, AND CULVERTS. MAINTAIN PROTECTION UNTIL DISTURBED AREAS ARE STABILIZED WITH GROUND COVER SUFFICIENT TO PREVENT EROSION.
- CONTRACTOR SHALL INSTALL AT ALL DISTURBED DITCH LINES OR OTHER AREAS OF CONCENTRATED FLOW WHERE FLOW IS GREATER THAN 2 FPS OR GRADIENT IS GREATER THAN 2% A PERMANENT DITCH LINING TO AID IN THE ESTABLISHMENT OF A PERMANENT VEGETATIVE GROUND COVER.
- WHEN EXCAVATED MATERIALS ARE PLACED ON ROADWAY SURFACES, THE CONTRACTOR SHALL PLACE SAND OR STONE SCREENINGS UNDERNEATH THE EXCAVATED MATERIALS AND SHALL REMOVE SAID MATERIALS AND WASH ALL RESIDUALS FROM THE SURFACES DAILY.
- CONTRACTOR SHALL MAINTAIN AN ACCESS CORRIDOR THROUGH THE WORK AREA FOR EMERGENCY VEHICLES AT ALL TIMES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF ALL STORM WATER SYSTEMS WHILE EXISTING STORM WATER PIPE SECTIONS ARE UTILIZED FOR FLUID MANAGEMENT. THE CONTRACTOR SHALL PROVIDE A SUBMITTAL WHICH PROVIDES DETAILS ON HOW THIS WILL BE ACCOMPLISHED INCLUDING THE USE OF DETENTION BASINS, BYPASS PUMPING, TEMPORARY PIPING, OR SIMILAR. AT ALL TIMES THE CONVEYANCE CAPACITY OF ALL EXISTING STORMWATER INFRASTRUCTURE SHALL BE MAINTAINED TO PREVENT FLOODING.
- CONTRACTOR SHALL TEMPORARILY RELOCATE AND REPLACE ANY MONUMENTS, SIGNS, FENCES, MAILBOXES, ETC. WITH THE SAME TYPE OF MATERIAL THAT WAS REMOVED DURING CONSTRUCTION.
- WHENEVER WATER SEEPS FROM A SLOPE FACE ADEQUATE DRAINAGE OR OTHER PROTECTION SHALL BE PROVIDED.
- THE CONTRACTOR SHALL INSTALL A STABILIZED CONSTRUCTION ENTRANCE AS DIRECTED BY THE ENGINEER AT LOCATIONS WHERE VEHICULAR TRAFFIC PASSES FROM DISTURBED AREAS ONTO ROADWAYS AS REQUIRED TO PREVENT THE MIGRATION OF SOIL FROM THE PROJECT AREA.
- CARE SHALL BE EXERCISED AT ALL TIMES TO ENSURE THAT TURBID RUNOFF DOES NOT STAGE UP AND CREST OVER THE SERVICE ROAD CROWN INTO THE LANE MAINTAINED FOR TRAFFIC. CONTRACTOR SHALL INSTALL EROSION AND SEDIMENT CONTROLS AT THE DIRECTION OF THE ENGINEER TO PREVENT SUCH OCCURRENCES. THE COST OF INSTALLATION, MAINTENANCE, AND REMOVAL SHALL BE CONSIDERED PART OF THE CONTRACT.
- PAVEMENT, DRIVEWAYS AND SIDEWALKS SHALL BE REMOVED TO CLEAN, STRAIGHT LINES BY SAW CUTTING. WHERE THESE SURFACES ADJOIN A TRENCH, THE EDGE ADJACENT TO THE TRENCH WILL BE TRIMMED TO NEAT STRAIGHT LINES BEFORE RESTORATION.
- TOPOGRAPHIC SURVEY WAS PERFORMED BY:  
  
R.E. HOLLAND AND ASSOCIATES, INC  
4770 BAYMEADOWS ROAD, SUITE 105  
JACKSONVILLE, FL. 32256
- BORING LOCATIONS SHOWN ON THE DRAWINGS ARE FOR INFORMATIONAL PURPOSES ONLY FOR CONTRACTOR CONVENIENCE. GEOTECHNICAL REPORT BY MESKEL AND ASSOCIATES ENGINEERING, PLLC. DATED MARCH 2017.
- CONTRACTOR SHALL COORDINATE WITH UTILITY OWNERS WHEN HOLDING AND PROTECTING OF EXISTING UTILITIES IS REQUIRED WHETHER NOTED ON DRAWINGS OR NOT.
- CONTRACTOR SHALL UTILIZE THE NECESSARY MEASURES FOR NOISE ABATEMENT AS REQUIRED BY THE OWNER DURING DRILLING AND CONSTRUCTION OF THE NEW WELL. THE SPECIFIC REQUIREMENTS SHALL BE DISCUSSED DURING THE PROJECT PRE-BID AND PRE-CONSTRUCTION MEETING.

#### ABBREVIATIONS AND LEGEND:

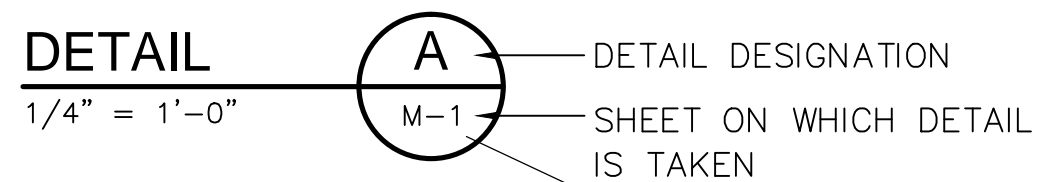
AC - ASBESTOS CEMENT  
A.G. - ALLEY GRATE  
ARV - AIR RELEASE VALVE  
BC - BOTTOM OF CURVE  
BL - BASE LINE  
B.M. - BENCH MARK  
BOC - BACK OF CURB  
C - CUT  
CB - CHORD BEARING  
C.B. - CATCH BASIN  
C.E.P. - CITY ELECTRIC POLE  
C.I. - CAST IRON  
C&G - CURB & GUTTER  
CL - CENTER LINE  
CLA - CENTERLINE OF ASPHALT  
CLDI - CONCRETE LINED DUCTILE IRON  
CLF - CHAIN LINK FENCE  
CH - CHORD DISTANCE  
CMF - CONCRETE MONUMENT FOUND  
C.M.P. - CORRUGATED METAL PIPE  
C.M.P.A. - CORRUGATED METAL PIPE ARCH  
CPP - CONCRETE POWER POLE  
CPC - CORRUGATED PLASTIC PIPE  
CONC. - CONCRETE  
CONST. - CONSTRUCTION  
CTV - CABLE TV  
CULV. - CULVERT  
D.B.I. - DITCH BOTTOM INVERT  
DB - DIRECT BURY  
DI - DUCTILE IRON  
Δ - DELTA ANGLE  
D.W OR DR - DRIVEWAY  
EA - EDGE OF ASPHALT  
ECC - ECCENTRIC RDCR-REDUCER  
ELEC - ELECTRIC  
ELEV - ELEVATION  
E.O.P. - EDGE OF PAVEMENT  
ERCP - ELLIPTICAL REINFORCED CONC. PIPE  
EXP. JT. - EXPANSION JOINT  
F - FILL  
FH - FIRE HYDRANT  
FFE - FINISHED FLOOR ELEVATION  
FL - FLOW LINE  
FLG - FLANGED  
FM - FORCEMAIN  
FOC - FIBER OPTIC CABLE  
G - GAS  
GA - GUY ANCHOR  
GALV. GLV - GALVANIZED  
GV - GATE VALVE  
H.C. HIGH CURB  
HDPE - HIGH DENSITY POLYETHYLENE PIPE  
HFAC - HARNESS FLANGE ADAPTOR COUPLING  
H.W. HEAD WALL  
ID - IDENTIFICATION  
INT. - INTERSECTION  
INV - INVERT  
IP - IRON PIPE  
IPF - IRON PIPE FOUND  
IR - IRON

IRF - IRON ROD FOUND  
IRS - IRON ROD SET  
J.W.W. JACKSONVILLE WATER WORKS  
L - ARC LENGTH  
LT - LEFT  
MARV - MANUEL AIR RELEASE VALVE  
MB - MAIL BOX  
MES - MITERED END SECTION  
MH - MANHOLE  
MISC - MISCELLANEOUS  
MJ - MECHANICAL JOINT  
MH - MANHOLE  
NAVD - NORTH AMERICAN VERTICAL DATUM  
N.T.S. - NOT TO SCALE  
O.E. - OVERHEAD ELECTRIC  
OR - OFFICIAL RECORDS  
O.T. - OVERHEAD TELEPHONE  
TEL - TELEPHONE  
PI - POINT OF INTERSECTION  
PC - POINT OF CURVATURE  
PCC - POINT OF COMPOUND CURVE  
PG 150 - PRESSURE CLASS 150  
PG - PAGE  
PVC - POLY VINYL CHLORIDE  
PRC - POINT OF REVERSE CURVATURE  
P.R.M. - PERMANENT REFERENCE MONUMENT  
PT - POINT OF TANGENCY  
P.V.C. - POLYVINYL CHLORIDE  
R - RADIUS  
R - RATE  
R.C.P. - REINFORCED CONCRETE PIPE  
R.D. - ROOF DRAIN  
RE# - REAL ESTATE NUMBER  
REF - REFERENCE  
RJ- RESTRAINED JOINT  
RT - RIGHT  
R/W - RIGHT OF WAY  
RW - RAW WATER  
S.B.T. - SOUTHERN BELL TELEPHONE  
SB - SOIL BORING  
SD - SOFT DIG  
S/W - SIDEWALK  
STA - STATION  
TC - TOP OF CURVE  
TOB - TOP OF BANK  
TOS - TOE OF SLOPE  
VERT. - VERTICAL  
UG - UNDERGROUND  
UGE - UNDERGROUND ELECTRIC  
UGT - UNDERGROUND TELEPHONE  
UNK - UNKNOWN  
USC & GS - UNITED STATES COASTAL & GEODETIC SURVEY  
V.C. - VITRIFIED CLAY  
VPI - VERTICAL POINT INFLECTION  
W - WATER  
WLP - WOOD LIGHT POLE  
WM - WATER METER  
WPP - WOOD POWER POLE  
WTP - WOOD TELEPHONE POLE  
WV - WATER VALVE

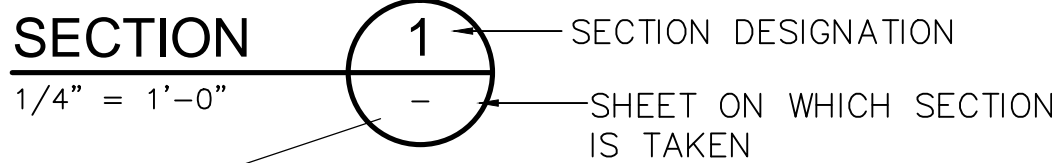
#### DETAIL AND SECTION IDENTIFICATION



#### DETAIL REFERENCE



#### DETAIL SHOWN



#### SECTION SHOWN

IF SECTION OR DETAIL IS DRAWN ON THE SAME SHEET THAT IT IS TAKEN FROM, THE SHEET NUMBER MAY BE REPLACED WITH A HYPHEN. IF THE SECTION IS REFERENCED ON MULTIPLE SHEETS, THE SHEET NUMBER SHOWN SHOULD INDICATE THE FIRST SHEET THE SECTION IS TAKEN FROM.

#### GENERAL LEGEND

	EXISTING	PROPOSED
RIGHT OF WAY LINE	---	---
CENTER LINE	---	---
LIMITS OF CONSTRUCTION	---	---
FENCE (HEIGHT & MAT'L INDICATED)	6' CHAIN LINK	6' CHAIN LINK
DITCH OR SWALE	---	---
DRAIN PIPE	---	---
CATCH BASIN	---	---
STORM DRAIN GRATE	---	---
STORM SEWER (SIZE & MAT'L INDICATED)	24" RCP	24" RCP
STORM SEWER, REPLACEMENT (IN CASE 10 TRENCH) SIZE, MAT'L INDICATED	SS	SS
STORM SEWER (SIZE & MAT'L INDICATED)	18" CMP	18" CMP
CULVERT W/ENDWALLS (SIZE & MAT'L INDICATED)	18" CMP	18" CMP
WATER MAIN SIZE, TYPE INDICATED	6" PVC	6" PVC
RAW WATER MAIN (IN CASE 10 TRENCH) SIZE, TYPE INDICATED	SS	SS
GRAVITY SEWER SIZE, TYPE INDICATED	8" PVC	8" PVC
SEWER FORCE MAIN SIZE, TYPE INDICATED	10" PVC	10" PVC
LINE VALVE	---	---
CHECK VALVE	---	---
FIRE HYDRANT	---	---
VALVE (TYPE INDICATED)	---	---
END CAP	---	---
PLUG (AT END OF LINE)	---	---
VALVE (TYPE INDICATED)	---	---
REDUCER	---	---
FIRE HYDRANT	---	---
HOUSE CONNECTION (SEWER)	---	---
SPOT ELEVATION	---	---
MANHOLE - TYPE (IF INDICATED )	---	---
E- ELECTRIC S- SANITARY	---	---
D- STORM T- TELEPHONE	---	---
CLEAN OUT	---	---
SPRINKLER HEAD	---	---
FLUSHING VALVE/MARV/SAMPLE TAP (BACTERIOLOGICAL SAMPLING POINT)	---	---
SILT FABRIC BARRIER	---	---
SIDEWALK	---	---

#### UTILITY SYMBOLS

ELECTRIC POLE OR S.B.T. POLE (WOOD)	PP OR PS (WITH LIGHT)
WOOD POWER POLE	WPP
ELECTRIC POLE OR S.B.T. POLE (CONC.)	PP OR PS (WITH LIGHT)
CONCRETE POWER POLE	CPP
GUY WIRE	---
TRAFFIC SIGNAL POLE	TS
IRON PIPE	O I.P.
OVERHEAD ELECTRIC	---
EXISTING ELECTRIC	---
OVERHEAD TELEPHONE	---
UNDERGROUND TELEPHONE	---
GAS MAIN (SIZE & MAT'L INDICATED)	---
CABLE TELEVISION	---
FIBER OPTIC LINE	---
UNDERGROUND CABLE (TYPE UNDETERMINED)	---
WATER METER	WM
WATER METER WITH TOUCHREAD	WM(TR)
TELEPHONE BOX	OT
CATV BOX	CATV
CONCRETE MONUMENT	CM
GAS VALVE	⊕
SOIL BORING (NUMBER INDICATED)	B-1
SOFT DIG (NUMBER INDICATED)	SD1
MONITORING WELL (NUMBER INDICATED)	MW
TREE, SIZE & TYPE INDICATED	12" O
MAIL BOX	MB
SIGN - TYPE INDICATED	OR SIGN
BUSH, SHRUB OR HEDGE	---
FULL DEPTH ASPHALT PAVEMENT REPLACEMENT	---
ASPHALT PAVEMENT OVERLAY	---
INDICATES DRIVEWAY/SIDEWALK TO BE AND REPLACED	---
WETLANDS	---
AUTOMATIC AIR RELEASE VALVE	A
EXISTING COLUMN	---
EXISTING POWER BOX	---
EXISTING EQUIPMENT METER	---

JE A

#### MAIN STREET WELLFILED WELL NO. 15 WELL CONSTRUCTION

#### GENERAL NOTES AND LEGEND

DATE: IOANNIS POLEMATIDIS  
PE NO. 75392

PROJECT NO. 6103-216210  
FILE NAME: G002GNAL.DWG

SHEET NO.

G-2

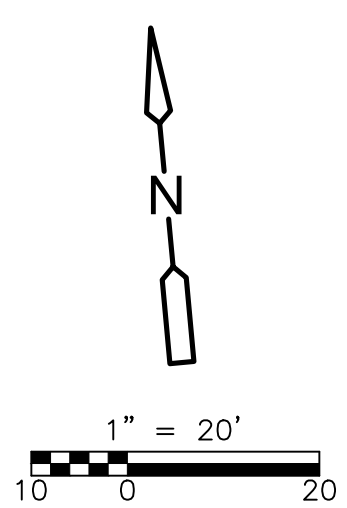
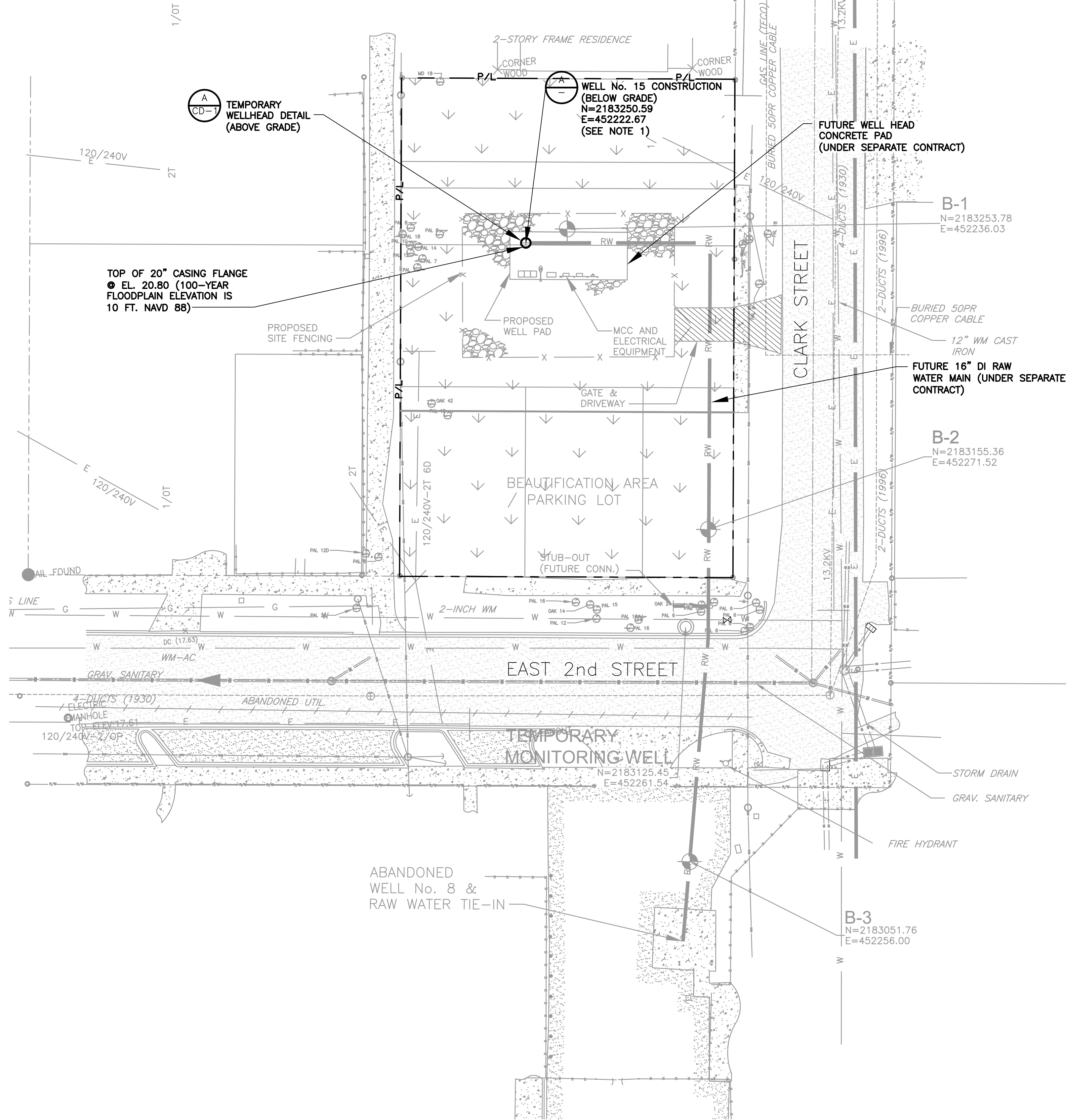
ISSUED FOR BID - APRIL 2017

DESIGNED BY: B. SCHNEIDER  
DRAWN BY: D. MOHLE  
SHEET CHK'D BY: J. HEALY  
CROSS CHK'D BY: L. WISEMAN  
APPROVED BY: I. POLEMATIDIS  
DATE: APRIL 2017

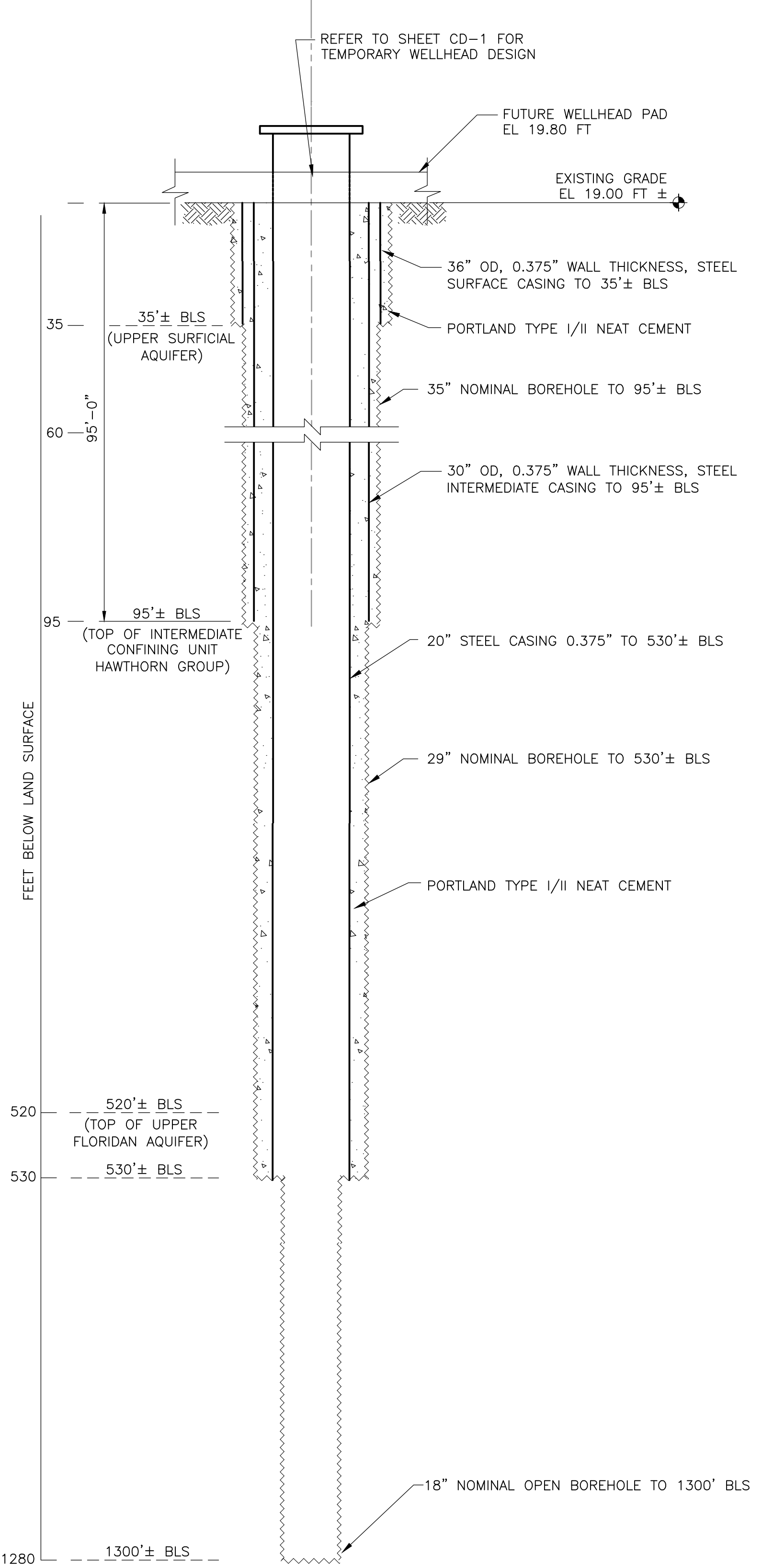
**CDM Smith**  
8381 Dix Ellis Trail, Suite 400  
Jacksonville, FL 32256  
Tel: (904) 731-7109  
FL CCA No. EB-0000020

REV. NO.	DATE	DRWN	CHKD	REMARKS

XREFs: [CDMS-2436, CFP000ST, CFP100ST, CWP000ST] Images:   
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LITHOLOGY	
0'-60' SAND, FINE-GRAINED SHELL, SHELL HASH W/ FINE-GRAINED SAND, SMALL AMOUNTS OF CLAY	
60'-95'± LIMESTONE, SMALL AMOUNTS OF CLAY	
95'-500' SILT, CLAY, SAND, PHOSPHATIC, LIMESTONE PHOSPHATIC, QUARTZ SAND	
490'-500' DOLOMITIC LIMESTONE (CAP ROCK) HARD PHOSPHATIC	
520'-700' LIMESTONE, WHITE TO LIGHT GREY, MOSTLY FOSSIL GRAINSTONES AND PACKSTONES, MOLDIC AND VUGGY POROSITY, BENTHIC FORAMINIFERA	
700'-1300' LIMESTONE, DOLOMITIC LIMESTONE, DOLOSTONE	



NOTES:

- FINAL BASE FLANGE SHALL BE SURVEYED BY A PROFESSIONAL SURVEYOR AND MAPPER REGISTERED IN THE STATE OF FLORIDA TO MEASURE THE ELEVATION OF FOUR POINTS ON THE OUTER RIM OF THE BOTTOM FLANGE. EACH SURVEY POINT SHALL BE SPACED 90 DEGREES FROM THE ADJACENT SURVEY POINTS. THE ELEVATION AT EACH POINT SHALL BE 20.80 FT.
- CONTRACTOR SHALL MAINTAIN SEDIMENTATION AND EROSION CONTROL IN ACCORDANCE WITH SECTION 02270 OF THE SPECIFICATIONS.
- THE PLAN VIEW IS INTENDED TO SHOW ONLY THE LOCATION AND DETAILS OF WELL No. 15 CONSTRUCTION. ALL OTHER STRUCTURES AND PIPING SHOWN ON PLAN VIEW ARE EITHER EXISTING STRUCTURES OR PROPOSED WORK UNDER A SEPARATE CONTRACT.

NOTES:

- LITHOLOGY WAS DERIVED FROM LITHOLOGY DATA FROM HISTORICAL RECORDS AND RECENT GEOPHYSICAL AND VIDEO LOGS FROM THE MAIN STREET PRODUCTION WELL EVALUATION.
- WELL No. 15 IS ARTESIAN WITH A STATIC WATER ELEVATION THAT IS ESTIMATED TO BE APPROXIMATELY 14 FEET ABOVE THE TOP OF THE CASING.
- THE BASEFLOOD ELEVATION (BFE) FOR THE 100-YEAR STORM IS 10 FEET (NAVD 88) PER THE NATIONAL FLOOD-HAZARD LAYER (NFHL) PROVIDED BY FEMA.

DETAIL  
NTS

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: B. SCHNEIDER  
DRAWN BY: D. MOHLE  
SHEET CHK'D BY: J. HEALY  
CROSS CHK'D BY: L. WISEMAN  
APPROVED BY: I. POLEMATIDIS  
DATE: APRIL 2017

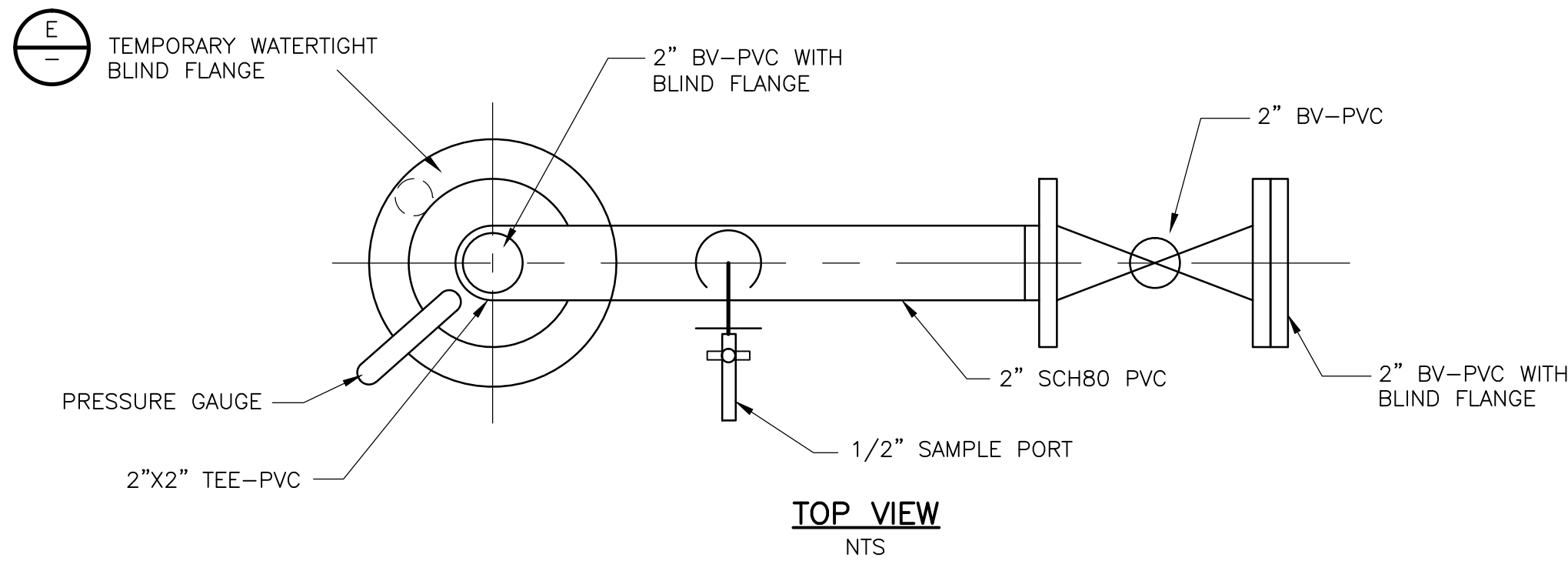
**CDM Smith**  
8381 Dix Ellis Trail, Suite 400  
Jacksonville, FL 32256  
Tel: (904) 731-7109  
FL CCA No. EB-0000020

JEA  
MAIN STREET WELLFILED WELL NO. 15  
WELL CONSTRUCTION

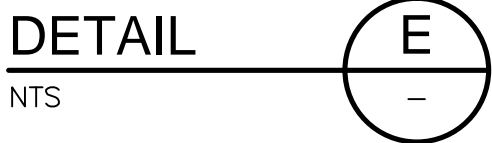
WELL No. 15 SITE PLAN  
AND WELL CONSTRUCTION DETAILS

DATE:  
IOANNIS POLEMATIDIS  
PE NO. 75392  
PROJECT NO. 6103-216210  
FILE NAME: CO01STPL.DWG  
SHEET NO.  
C-1

XREFs: [CDWS-2436] Images: [ ]  
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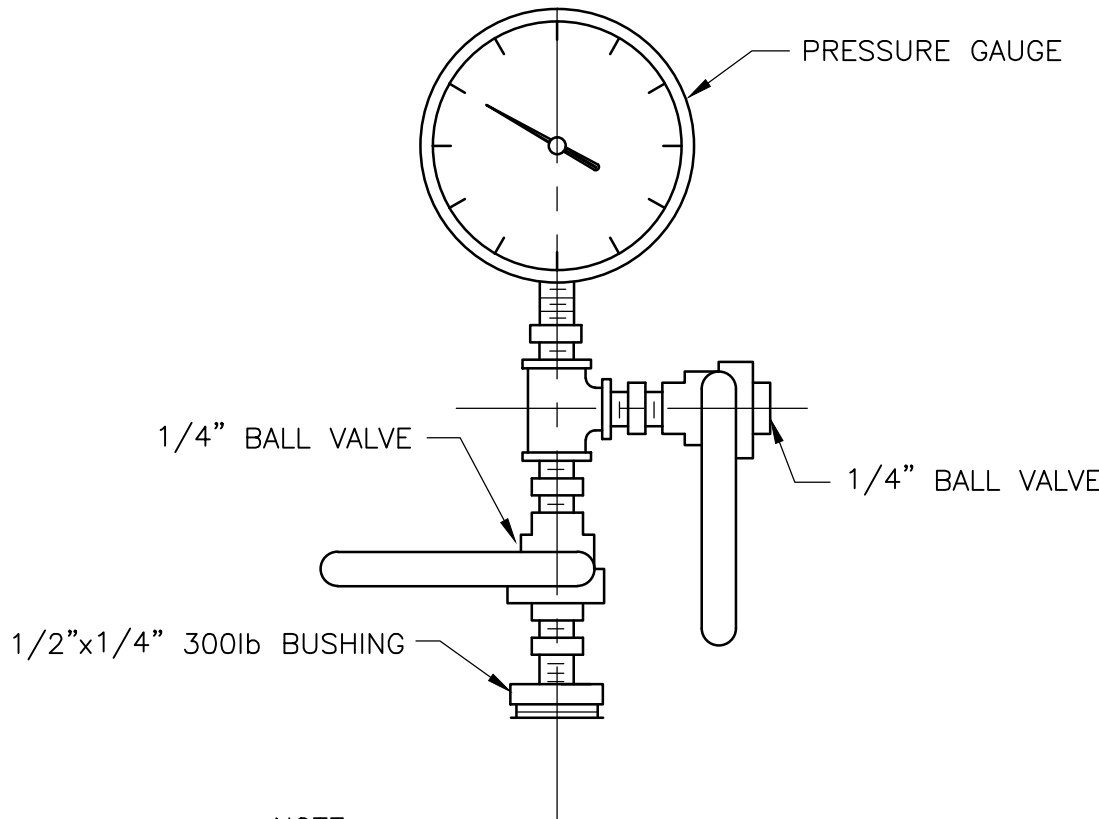


TEMPORARY WATERTIGHT BLIND FLANGE DETAIL



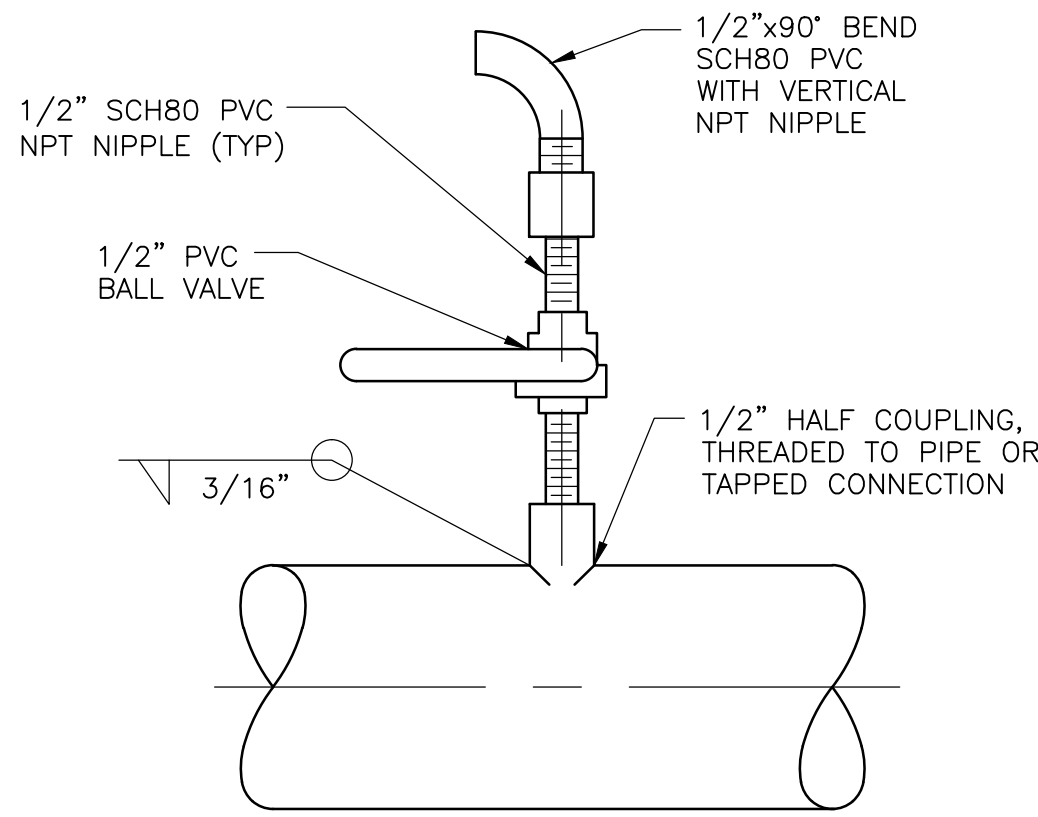
NOTE:

1. THE BASE FLANGE SHALL BE WELDED SUCH THAT THE BOLT HOLES ARE ORIENTATED TO ALLOW THE FUTURE ATTACHMENT OF THE WELL PUMP SO THAT THE DISCHARGE NOZZLE CENTERLINE IS ALIGNED IN THE PROPER DIRECTION FOR SUBSEQUENT CONNECTION TO FUTURE RAW WATER MAIN (TO BE CONSTRUCTED BY OTHERS). THIS REQUIRED ORIENTATION WILL BE FIELD-CONFIRMED BY OWNER AND/OR ENGINEER.



NOTE:

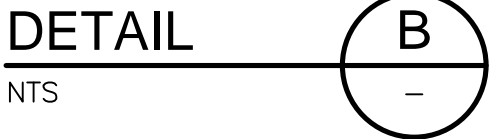
1. GAUGE SHALL BE ASHCROFT PLUS MODEL AC 35-1009SW-02L-60# OR APPROVED EQUAL.



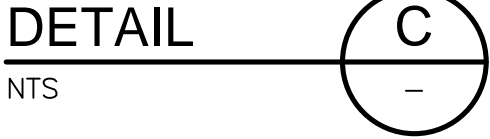
NOTE:

1. PIPE SHALL BE SCHEDULE 80 PVC WITH NPT (NATIONAL PIPE THREAD) FITTINGS AND FLANGES, 150 POUND CLASS BY SWAGELOK, OR EQUAL. FLANGE GASKETS SHALL BE 1/16-INCH MINIMUM NEOPRENE. FLANGE BOLTS SHALL BE HEX-HEAD ASTM A193 GRADE B&M, AND NUTS SHALL BE HEX-HEAD ASTM A194 GRADE 8M. PIPE THREAD SEALANTS SHALL BE USED IN ACCORDANCE WITH THE FITTINGS MANUFACTURER, BUT SHALL NOT CONTAIN HAZARDOUS SUBSTANCES OR DELETERIOUS COMPOUNDS THAT WOULD CAUSE A VIOLATION OF WATER QUALITY HEALTH-EFFECTS STANDARDS IF SUBSEQUENTLY INTRODUCED DURING OPERATIONS. FIELD WELDING SHALL ONLY BE DONE WITH THE ENGINEER'S APPROVAL BY APPROPRIATELY CERTIFIED WELDERS.

PRESSURE GAUGE



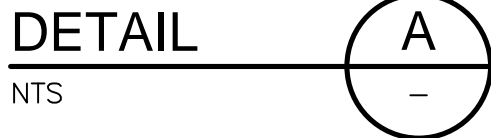
SAMPLE PORT



NOTES:

1. CONTRACTOR SHALL TERMINATE THE 20" STEEL CASING TO A FLANGE ELEVATION OF 20.80 FEET. EXISTING GROUND ELEVATION SHALL BE FINISHED TO ELEVATION 19.00 FEET BY OTHERS.
2. CONTRACTOR SHALL TURN OVER ALL TEMPORARY APPURTENANCES (PRESSURE GAUGES, SAMPLE PORTS, VALVES AND FITTINGS) FROM THE TEMPORARY WELLHEAD TO OWNER (JEA) AT THE COMPLETION OF THE PROJECT.
3. SEE DETAIL A OF SHEET C-1 FOR MATERIALS OF CONSTRUCTION. WALL THICKNESS AND DEPTH OF SURFACE CASING, INTERMEDIATE CASING AND FINAL CASING.
4. FINAL BASE FLANGE SHALL BE SURVEYED BY A PROFESSIONAL SURVEYOR AND MAPPER REGISTERED IN THE STATE OF FLORIDA TO MEASURE THE ELEVATION OF FOUR POINTS ON THE OUTER RIM OF THE BOTTOM FLANGE. EACH SURVEY POINT SHALL BE SPACED 90 DEGREES FROM THE ADJACENT SURVEY POINTS. THE ELEVATION AT EACH POINT SHALL BE 20.80 FT.

TEMPORARY WELLHEAD DETAIL



REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: B. SCHNEIDER  
DRAWN BY: D. MOHLE  
SHEET CHK'D BY: J. HEALY  
CROSS CHK'D BY: L. WISEMAN  
APPROVED BY: I. POLEMATIDIS  
DATE: APRIL 2017

**CDM Smith**  
8381 Dix Ellis Trail, Suite 400  
Jacksonville, FL 32256  
Tel: (904) 731-7109  
FL CCA No. EB-0000020

JEA  
MAIN STREET WELLFILED WELL NO. 15  
WELL CONSTRUCTION

WELL No. 15  
TEMPORARY WELLHEAD DETAILS

DATE:  
IOANNIS POLEMATIDIS  
PE NO. 75392

PROJECT NO. 6103-216210  
FILE NAME: CD01SDDT.DWG

SHEET NO.

CD-1