

UTILITY PERMIT

PERMIT NO: 2018-H-294-173

STATE ROAD INFORMATION

County: DUVAL	Section:	State Road No: 21	Beginning Mile Post:	Ending Mile Post:
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APPLICANT INFORMATION

The Utility Agency Owner (UAO) shall be identified in this Applicant Information Box. When the UAO is a City or County and desires to have the Utility Builder make a joint permit applicant, as prescribed in Section 2.1(4) of the 2017 Utility Accommodation Manual (UAM), the Utility Builder shall also be identified in this Applicant Information Box. A Utility Builder alone cannot apply for a utility permit without the City or County adding them as a joint applicant.

Utility Agency/Owner (UAO)

Name: **JEA (Elizabeth DiMeo)**
Contact Person: **JEA (Elizabeth DiMeo)**
Address: **21 W. Church Street T-4**
City: **Jacksonville**
State: **FLORIDA**
Zip: **32202**
Telephone: **(904) 665-8139**
Email: **dimeea@jea.com**

Utility Builder (only applicable when the UAO is a City or County)

Name: **N/A**
Contact Person:
Address: **N/A**
City: **N/A**
State: **N/A**
Zip: **N/A**
Telephone:
Email:

WORK DESCRIPTION

The Applicant(s) requests permission from the Florida Department of Transportation (FDOT) to construct, operate, and maintain the utilities as described below and as depicted in the incorporated documentation.

Duval County-City of Jacksonville: Installation of a JEA 30-inch sewage force main in a 48-inch steel casing pipe installed by auger jack and bore under Blanding Boulevard (SR 21) between City of Jacksonville streets Confederate Point Road and Cedar Hills Boulevard.

Utility Work No: **JEA Project 8003534**

Additional sheets are attached and are incorporated into this permit Yes ☒ No ☐

For FDEP certification, the FDOT agency report is attached in accordance with UAM Section 2.4.1 (13) Yes ☐ No ☒

TRAFFIC CONTROL (TCP)

☒ The TCP will comply with the following 600 series index(es) **600, 603, 604, 613, 660**

☒ A TCP has been attached and incorporated into this permit application in compliance with UAM Section 2.4.2

MOT Technician's contact information (may be supplied at the two (2) business day notification to FDOT):

Name: Telephone: Email:

COMMENCEMENT OF WORK

The UAO and/or Utility Builder shall commence actual construction in good faith within sixty (60) calendar days after approval of the permit application. If the beginning date is more than sixty (60) calendar days from the date of approval, the UAO and/or Utility Builder must review the permit with the FDOT Approving Engineer listed to make sure no changes have occurred to the transportation facility that would affect the permit's continued approval. The UAO and/or Utility Builder shall make good faith efforts to expedite the work and complete the work within the calendar days indicated.

Anticipated Start Date: **9/4/2018**

Calendar days needed to completed: **45**

APPROVED
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Julian McKinley
6/12/2018

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APPLICANT SIGNATURE

By the below signature(s) the UAO and/or Utility Builder agree(s) to construct, operate, and maintain the work as noted in the above Work Description, shown in plans and incorporated documents, in compliance with the UAM, all instructions noted in the FDOT Special Instructions Box, and special instructions incorporated into this permit. The UAO and/or Utility Builder declares, the location of all existing utilities that it owns or has an interest in, both aerial and underground, are accurately shown on the plans of the work areas. In accordance with UAM Section 2.8, the UAO and/or Utility Builder further declares that a letter of notification was delivered to the owners of other facilities within the work areas and that those listed below are the only facility owners known to be involved or potentially impacted by the proposed work.

Date Notified:	Name of other facility owners (attach additional sheets if necessary).
8/7/2017	FDOT ITS
8/7/2017	AT&T
8/7/2017	FPL Fibernet
8/7/2017	COJ Traffic Signal
8/7/2017	JEA Power
8/7/2017	JEA FOC
8/7/2017	Comcast
8/7/2017	Teco Gas
8/7/2017	FDOT Lighting-DBI

Utility Agency/Owner

Utility Builder (when applicable)

Signature: **ELIZABETH DIMEO (digital signature)** Date: **4/11/2018**

Signature: **N/A** Date: **N/A**

Name (printed): **ELIZABETH DIMEO**

Name (printed): **N/A**

Title:

Title: **N/A**

FDOT PROJECT INFORMATION

Pursuant to UAM Section 2.1(10), the utility work is within FDOT projects listed below and must have a Utility Work Schedule for each project approved prior to commencement of work within the FDOT project limits:

There are NO FDOT constructions (proposed or underway). This work is NOT related to an approved Utility Work Schedule.

FDOT SPECIAL INSTRUCTIONS

In accordance with UAM Section 2.7, FDOT incorporates the below and attached special instructions into this permit.

****UTILITY PERMIT WORK SHALL NOT COMENCE WITHIN FDOT RIGHT OF WAY BEFORE MAY 01, 2019.****

PERMIT APPROVAL

By signature below, FDOT gives permission to the UAO and/or Utility Builder to construct, operate, and maintain the utilities indicated in this Utility Permit in compliance with the UAM, all incorporated documents, and special instructions. Any changes to the approved work must be approved by the FDOT's Approving Engineer and attached and incorporated into this permit in accordance with UAM Section 2.11.

Approving Engineer: **Julian McKinley (digital signature)**

Date: **6/12/2018**

Name: **Julian McKinley**

Title: **N/A**

Notification of Utility Work to be provide to Telephone **(904) 360-5376** or Email: **richard.harvey@dot.state.fl.us**

An FDOT Representative is required to be present on the worksite prior to commencement of work. Yes ☒ No ☐

Rep. Name: **Richard Harvey**

Telephone **(904) 360-5372**

Email: **richard.harvey@dot.state.fl.us**

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CERTIFICATION

I, the undersigned UAO and/or Utility Builder, hereby CERTIFY that the utilities were constructed and inspected in compliance with the UAM all incorporated documents, and special instructions. Pursuant to UAM Section 2.11, all changes have been approved by the FDOT's Approving Engineer and incorporated into this permit along with all other material certifications, test results, bore logs, approved plans changes, as-built plans or other required documentation.

I also CERTIFY that work began on **MM/DD/YYYY** and was completed on **MM/DD/YYYY** and that the area was left in as good or better condition than when the work began.

Utility Agency/Owner

Utility Builder (when applicable)

Signature: **N/A**

Date **N/A**

Signature: **N/A**

Date **N/A**

Name (printed): **N/A**

Name (printed): **N/A**

Title: **N/A**

Title: **N/A**

FINAL INSPECTION OF WORK

- ☐ The work was inspected and found to be in non-compliance as noted below:

None

- ☐ All issues of non-compliance listed above have been brought into compliance and/or FDOT has no outstanding issues that need to be addressed by the UAO and/or Utility Builder. However, this final inspection does not release the UAO and/or Utility Builder of their continuing responsibilities pursuant to Rule 14-46.001, the UAM, all incorporated documents, and special instructions.

FDOT Inspector: **N/A**

Date: **N/A**

Name: **N/A**

Title: **N/A**

APPROVED

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Julian McKinley

6/12/2018

CONSTRUCTION DRAWINGS FOR WEST GRID LENOX TO TIMUQUANA FORCE MAIN IMPROVEMENTS WILSON TO TIMUQUANA SEGMENT PREPARED FOR:

CITY OF JACKSONVILLE NOTES

GENERAL

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).

UTILITY WORK

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/developers.asp>

WORK WITHIN THE RIGHT-OF-WAY

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 Counter
Edward Ball Building, 2nd Floor
214 N. Hogan St.
Jacksonville, FL 32202
(904) 255-8572
<http://now.jaxdev.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) 825-5036. Any changes to the approved plans needed for FDOT approval must be submitted to Development Services as revisions.

Adjacent State Roads: _____

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.

STORMWATER

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

FIRE MARSHALL

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.

LANDSCAPE

A Site Work Permit is required for this project.

☐ Tree Fund payment is due: _____ inches at \$ _____ = \$ _____
☐ Article 25 funds are due: _____ inches at \$ _____ = \$ _____

TRAFFIC ENGINEERING

TRAFFIC SIGNS

Metro Name (each) _____
Standard (each) _____
Stop/Yield (each) _____
Design (per plat) 1 per plat
Installation (per hour) 1 per 2 signs (rounded up)

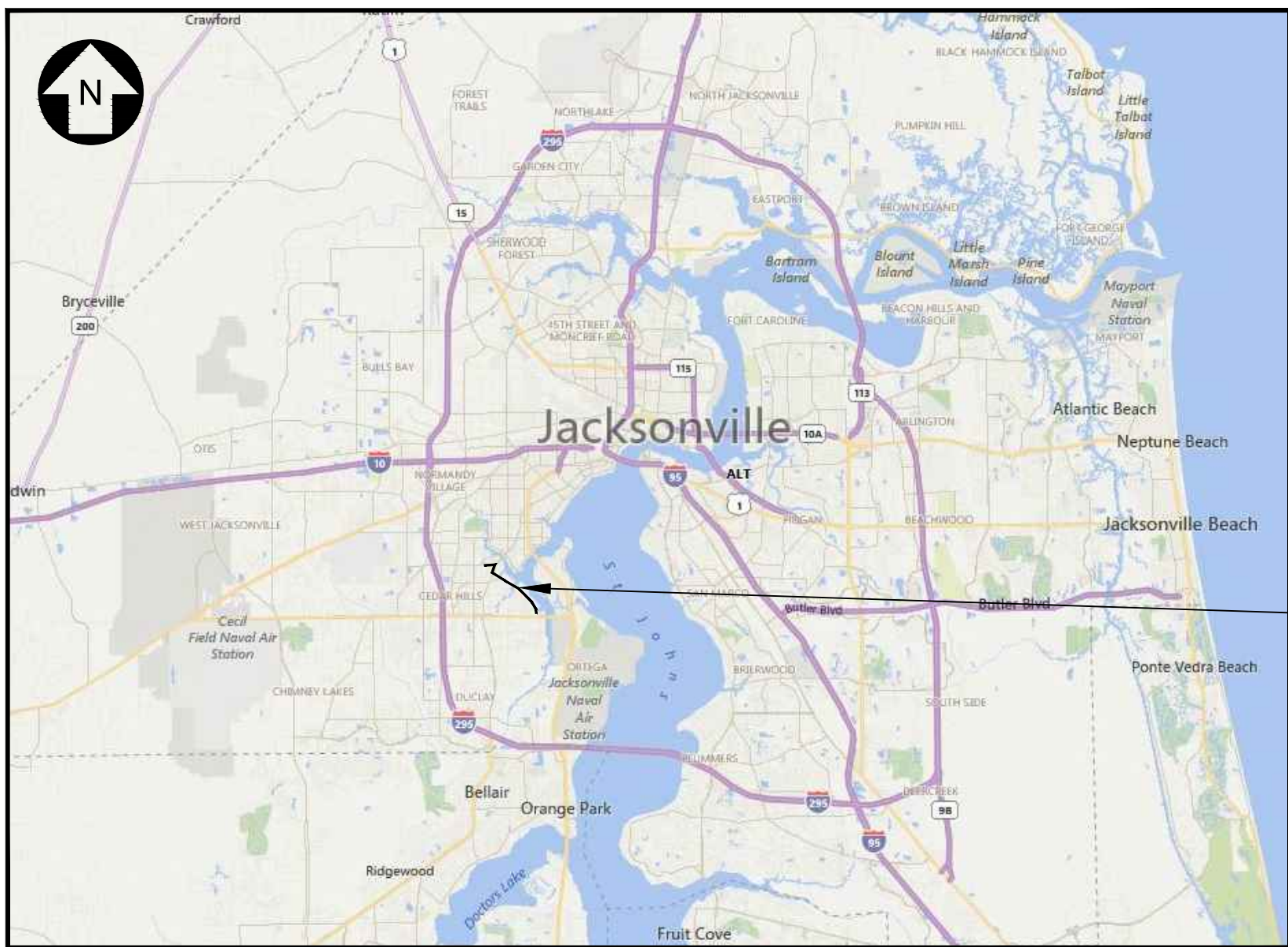
_____ Streetlights Required

NOTE: Traffic sign costs change from time to time. Consult Attachment 8 of the Land Development Procedures Manual (<http://ldpm.jaxdev.com/>) for the current rates before paying for any sign installations.

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



JEA PROJECT NO.: 8003534
MM PROJECT NO.: 376869
PERMIT SUBMITTAL
APRIL 2018



LOCATION MAP
SCALE: NTS

M M
MOTT
MACDONALD
Mott MacDonald Florida, LLC

Architects Engineers Surveyors
AA - C0000035 EB - 0000155 LB - 0006783
10245 Centurion Pkwy. N., Suite 320
Jacksonville, Florida 32256
Telephone: (904) 203-1090

PROJECT LOCATION

IFB BID NO.:
BID DUE DATE:
TIME OF RECEIPT:
TIME OF OPENING:
BID PLACE:

PLAN APPROVAL

Date Development Services Division (Chief)

Date Review Group (Reviewer)

Plan approval is valid for five years after the initial approval date. Revisions made after the initial approval date do not extend this five-year time frame.

PLAN APPROVAL IS SUBJECT TO THE
FOLLOWING NOTES AND CONDITIONS:

GENERAL PROJECT INFORMATION

GENERAL	
City Development Number	4161.234
Concurrency Application Number	N/A
Property Appraiser Number (RE #)	* (BELOW)
Zoning Designation	RLD-60, PBF-2, RMD-B, CRO, CN, CCG-1, RLD-90, RMD-D
Zoning Application(s) (if any)	N/A
PUD Ordinance Number	N/A
FIRM - Community - Panel	12031CO342H, 12031C0363H, 12031C0364H & 12031C0527H
Flood Zones (Show in Plans)	X
Base Flood Elev. (Show in Plans)	BFE: 4 & 21
Vertical Datum Used for Project	NAVD 88
JEA Availability Number	JEA PROJ. 8003534
SUBDIVISION	
PSD Number	N/A
City or Private Inspection	N/A
Public or Private Roads	N/A
Subdivision ("911") Disk Provided?	N/A
NON-SUBDIVISION	
North American Industry Classification System (NAICS)	23711
Impervious Area (Sq. Ft.)	NO CHANGE

WILSON BLVD, SUDBURY AVE, CEDAR HILLS BLVD, BLANDING BLVD, CONFEDERATE POINT RD AND ORTEGA FARMS RD RIGHT-OF-WAY.

GENERAL NOTES

1. THE CONTRACTOR SHALL, CONTACT THE LOCAL PUBLIC UTILITIES (SUNSHINE STATE ONE CALL (811) LOCATING SERVICE TO LOCATE UTILITIES IN THE AREA PRIOR TO ANY EXCAVATION. ALL EXISTING UTILITIES MAY NOT BE SHOWN ON THE DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING EXISTING UTILITIES, WHETHER SHOWN OR NOT, AND FOR REPAIRING ALL DAMAGE TO UTILITIES.
2. DISTURBANCE SHALL BE LIMITED TO THE PERMANENT FDOT, COJ RIGHT OF WAYS, UTILITY AND TEMPORARY CONSTRUCTION EASEMENTS.
3. THE CONTRACTOR IS RESPONSIBLE FOR PROCURING ALL MOBILIZATION, STORAGE, AND STAGING AREAS AS WELL AS ACCESS TO THE CONSTRUCTION SITES WITHIN THE TEMPORARY AND PERMANENT RIGHT OF WAYS. EROSION CONTROL DEVICES AND BEST MANAGEMENT PRACTICES SHALL BE INSTALLED AND MAINTAINED AT ALL WORK SITES AND STAGING AREAS. THE CONTRACTOR SHALL FOLLOW ALL LOCAL GUIDELINES AND REGULATIONS REGARDING THE WORK, INCLUDING KEEPING MUD AND DIRT OFF PUBLIC ROADS AND PRIVATE ENTRANCES.
4. SOIL EXPLORATION WORK WAS PERFORMED BY MESKEL AND ASSOCIATES ENGINEERING, PLLC OF JACKSONVILLE, FLORIDA (MAE PROJECT NO.0103-0010). 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 CONSTRUCTION. 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.
5. ALL OPEN ENDS OF PIPE SHALL BE SECURED WATER TIGHT TO PREVENT ENTRY AT THE END OF EACH WORK DAY.
6. ALL AREAS WITH OPEN EXCAVATIONS, OPEN VAULTS OR MANHOLES, OR EQUIPMENT SHALL BE FENCED WITH SECURE TEMPORARY FENCING AT LEAST FOUR FEET HIGH OR CLOSED AT THE END OF EACH WORK DAY.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY WASTEWATER SPILLS THAT OCCUR DURING CONSTRUCTION AND FOR THE ASSOCIATED FINES BROUGHT FORTH FROM FEDERAL, STATE, OR LOCAL REGULATORY AGENCIES. THE CONTRACTOR IS REQUIRED TO HAVE PUMPS AVAILABLE AT ALL TIMES ALL TIMES IN CASE OF ACCIDENTAL SPILL OR EXISTING SEWER DAMAGE. THE CONTRACTOR SHALL NOTIFY JEA IMMEDIATELY IN THE CASE OF A SPILL.
8. ANY PUBLIC LAND CORNER, PROPERTY MONUMENTATION, OR BENCH MARK WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED. IF A 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 LICENSED IN THE STATE OF FLORIDA AT NO ADDITIONAL COST TO THE OWNER.
9. THE CONTRACTOR SHALL CONTACT THE ENGINEER OR OWNER IMMEDIATELY SHOULD ANY ISSUE BETWEEN CONSTRUCTION AND THE DRAWINGS ARISE. THE CONTRACTOR SHALL ADHERE TO ALL CONDITIONS AND REQUIREMENTS OF ALL PERMITS THAT HAVE BEEN OBTAINED.
10. FOR ALL TIE-IN PIPING, CROSSINGS, OR VALVES THE CONTRACTOR SHALL VERIFY ALL EXISTING PIPELINE ELEVATIONS, LOCATIONS, DIAMETERS, AND MATERIALS PRIOR TO SHOP DRAWING SUBMITTALS, NOTIFYING THE ENGINEER OF ANY CONFLICTS.
11. ANY CONSTRUCTION IN COJ RIGHT OF WAY WILL REQUIRE A RIGHT OF WAY PERMIT. THE CONTRACTOR IS RESPONSIBLE FOR CALLING 904-255-8366 DAILY FROM 7:30 A.M. TO 8:30 A.M., WHEN WORKING IN THE COJ RIGHT OF WAY.
12. ALL DRIVEWAYS, DRAINAGE PIPES, AND HEADWALLS SHALL BE RESTORED TO EQUAL OR BETTER THAN EXISTING CONDITION. IN BOTH NEW AND EXISTING RIGHT OF WAYS AND WITHIN ANY TEMPORARY EASEMENT AREAS, ANY STRUCTURES OR DRIVEWAYS DISTURBED OUTSIDE OF THE RIGHT OF WAY SHALL BE FULLY RESTORED AT NO COST TO THE PROPERTY OWNER OR OWNERS.
13. THE CONTRACTOR SHALL LOCATE AND PROTECT ALL WATER AND SEWER LATERALS SERVICING RESIDENTS AND BUSINESSES THROUGHOUT CONSTRUCTION.
14. WHEN EXCAVATED MATERIALS ARE PLACED ON ROADWAY SURFACES THE CONTRACTOR SHALL PLACE SAND OR STONE SCREENING UNDERNEATH THE EXCAVATED MATERIALS AND SHALL REMOVE SAID MATERIALS AND WASH ALL RESIDUES FROM THE SURFACES DAILY.
15. THE CONTRACTOR SHALL PROVIDE AN ACCESS CORRIDOR FOR EMERGENCY SERVICES AT ALL TIMES.
16. THE CONTRACTOR SHALL PROVIDE 24 HOURS' NOTICE TO FLORIDA GAS TRANSMISSION PRIOR TO WORK WHICH MAY IMPACT ITS GAS MAINS.
17. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE CLEAN AND EFFICIENT OPERATIONS OF ALL STORM WATER CONVEYANCE STRUCTURES IN THE AREA IMPACTED BY CONSTRUCTION. THE CONTRACTOR SHALL ENSURE THAT THE CONVEYANCE CAPACITY OF THE STORM WATER INFRASTRUCTURE IS MAINTAINED TO AVOID FLOODING. THE CONTRACTOR SHALL INSTALL STABILIZED CONSTRUCTION ENTRANCES AS DIRECTED BY THE ENGINEER AT LOCATIONS WHERE VEHICULAR TRAFFIC PASSES FROM DISTURBED AREAS TO UNDISTURBED AREAS. THE CONTRACTOR SHALL IMPLEMENT THE EROSION AND SEDIMENT CONTROL MEASURES DESIGNATED BY THE ENGINEER.
18. THE CONTRACTOR SHALL MINIMIZE TEMPORARY IMPACTS TO ANY AND ALL ENVIRONMENTALLY SENSITIVE AREAS. THE CONTRACTOR SHALL COMPLY WITH ALL DIRECTION AND PERMITTING THE FROM LOCAL, STATE, AND GOVERNMENT AGENCIES WHEN WORKING IN SUCH AREAS.
19. ANY IMPACTS TO WETLANDS AND WATERS OF THE U.S. SHALL BE PERMITTED BY APPROPRIATE LOCAL, STATE, AND FEDERAL AGENCIES.
20. ALL DRAINAGE DITCHES SHALL BE RESTORED TO THE EXISTING CROSS SECTION UPON COMPLETION OF CONSTRUCTION DISTURBANCE. EROSION CONTROL FOR DISTURBED DITCHES WILL BE REQUIRED UNTIL VEGETATION, EQUAL TO ADJACENT AREAS, HAS BEEN RESTORED. EROSION CONTROL METHODS WILL BE CONSISTENT WITH THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL MANUAL, LATEST EDITION. THE CONTRACTOR SHALL USE ROLLED EROSION CONTROLLED PRODUCTS (RECP) TO TEMPORARILY AND PERMANENTLY STABILIZE DITCH BOTTOMS AT ALL DITCH CROSSINGS. SPECIFICALLY, AN EROSION CONTROL BLANKET OR TURF REINFORCEMENT MAT WILL BE REQUIRED. RICP's SHALL BE INSTALLED PER MANUFACTURERS SPECIFICATIONS. CONTRACTOR IS REQUIRED TO MAINTAIN WET SEASON DRAINAGE CONVEYANCE WITHIN THE PROJECT AREA. CARE SHALL BE TAKEN TO MAINTAIN FLOW WITHIN THE EXISTING DITCH SYSTEMS DURING AND AFTER RAINFALL EVENTS.
21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL STORM WATER RUNOFF CONTROL AND FILTRATION VIA USING BEST MANAGEMENT PRACTICES AS PROVIDED BY THE ENGINEER (SEE SHEET CD-5 AND NPDES PERMIT) .THE CONTRACTOR SHALL REFERENCE THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) FOR ALL SUCH INSTANCES.
22. THE CONTRACTOR SHALL IMPLEMENT ONLY MAINTENANCE OF TRAFFIC SPECIFIED BY THE ENGINEER AND APPROVED BY THE CITY OF JACKSONVILLE AND FDOT.
23. THE CONTRACTOR SHALL PROVIDE THE OWNER WITH ITS TWO WEEK FORWARD PROJECT SCHEDULE AT LEAST ONE WEEK PRIOR TO IMPLEMENTATION. THE CONTRACTOR SHALL PROVIDE THE OWNER WITH ANY CHANGE/MODIFICATION TO THE PROJECT SCHEDULE WITHIN 24 HOURS.
24. LIMITS OF DISTURBANCE WITHIN THE UTILITY AND TEMPORARY CONSTRUCTION EASEMENTS SHALL BE LIMITED TO THE AREAS OUTLINED BY SILT FENCE ON THE DRAWINGS.
25. RESTORATION WORK WITHIN UTILITY AND TEMPORARY CONSTRUCTION EASEMENTS SHALL BE AS SHOWN ON THE DRAWINGS AS WELL AS SEEDING AS PER SHEET CD-5.
26. CONTRACTOR SHALL HAVE A LICENSED LAND SURVEYOR/MAPPER FIELD LAYOUT AND STAKE ALL PERMANENT AND TEMPORARY EASEMENTS PRIOR TO THE START OF CONSTRUCTION.
27. JEA WATER AND WASTEWATER STANDARDS SECTIONS 350 AND 429 III.3.1: THE MAXIMUM JOINT DEFLECTION SHALL BE LIMITED TO 80% OF THE PIPE MANUFACTURER'S RECOMMENDATIONS.

CITY OF JACKSONVILLE (COJ) EROSION CONTROL NOTES

1. CAUTION: ALL UTILITY LOCATIONS ARE APPROXIMATE AND MUST BE LOCATED PRIOR TO CONSTRUCTION.
2. VEGETATION CLEARING WILL BE KEPT TO THE ABSOLUTE MINIMUM NECESSARY FOR CONSTRUCTION.
3. MATERIAL RESULTING FROM EXCAVATION WILL NOT BE PLACED IN SUCH A MANNER THAT IT IS DISPERSED BY CURRENT OR OTHER FORCES. THE MATERIAL SHOULD BE COLLECTED AND CONTAINED AT ONE SITE AS APPROPRIATE.
4. HEAVY EQUIPMENT WORKING IN WETLANDS WILL BE PLACED ON MATS OR LOW GROUND PRESSURE EQUIPMENT USED DURING CONSTRUCTION TO LIMIT SOIL DISTURBANCE TO THE MINIMUM AREA REQUIRED TO INSTALL THE UTILITY.
5. NO STAGING AREAS OR TEMPORARY ACCESS ROADS WILL BE PLACED IN WETLANDS
6. APPROPRIATE SILTATION AND EROSION CONTROLS WILL BE USED AND MAINTAINED IN EFFECTIVE OPERATING CONDITION DURING CONSTRUCTION, AND ALL EXPOSED SOIL AND FILLS WILL BE PERMANENTLY STABILIZED AT THE EARLIEST PRACTICABLE DATE.
7. SEDIMENT CONTROL FENCE (SILT FENCE) SHOULD BE INSTALLED AND MAINTAINED FOR THE DURATION OF THE CONSTRUCTION. SILT FENCE WILL BE INSTALLED ALONG AND WITHIN THE RIGHT-OF-WAY LINE (AT LEAST 12 FT. AWAY FROM THE EDGE OF THE RIGHT-OF-WAY), IF A BODY OF WATER OR POTENTIAL WETLAND IS LOCATED WITHIN 60 FT. FROM THE EDGE OF THE RIGHT-OF-WAY. ANY OTHER SITUATIONS WILL BE APPROVED BY ENGINEER.
8. WHEN CONSTRUCTING IN WETLANDS, THE TOP 6 TO 12 INCHES OF THE TRENCH WILL BE BACK FILLED WITH TOP SOIL FROM THE TRENCH.
9. EXCESS MATERIAL WILL BE REMOVED FROM THE WETLAND AND PLACE ON UPLAND AREAS IMMEDIATELY UPON COMPLETION OF CONSTRUCTION.
10. EXPOSED SLOPES OF STREAM BANKS WILL BE RESTORED TO THEIR ORIGINAL CONTOURS AND STABILIZED IMMEDIATELY UPON COMPLETION OF CONSTRUCTION.
11. ANY TEMPORARY FILLS MUST BE REMOVED IN THEIR ENTIRETY AND THE AFFECTED AREAS RETURNED TO THEIR PRE-EXISTING ELEVATION.
12. ANY DISTURBED AREA WILL BE RESEDED WITH NATIVE GRASS SEED, AND SEDIMENT CONTROL FENCE SHOULD BE REMOVED IMMEDIATELY UPON COMPLETION OF CONSTRUCTION.
13. WHEN CONSTRUCTING IN COJ LIMITS, ALL ROADWAY DRAINS, SUCH AS INLETS NEAR CURBS OR DROP INLETS ON ROADWAYS WHICH ARE LOCATED WITHIN THE RIGHT-OF-WAY, SHALL BE PROTECTED WITH TYPICAL INLET SEDIMENT FILTERS. THESE FILTERS WILL BE REMOVED IMMEDIATELY UPON COMPLETION OF CONSTRUCTION.
14. ALL CABLE MARKERS TO BE PLACED AS FAR BACK TO RIGHT-OF-WAY LINE AS POSSIBLE.
15. DRAWING DISCLAIMER: FACILITY LOCATIONS ARE GENERAL IN NATURE. ENGINEER WILL NOT BE HELD ACCOUNTABLE FOR THE ACCURACY OF THE INFORMATION PROVIDED ON THESE DRAWINGS. CONTRACTOR MUST LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION.

ABBREVIATIONS:

AC	ASBESTOS CEMENT	HC	HIGH CURB
AG	ALLEY GRATE	INT	INTERSECTION
B	BENCH MARK	INV	INVERT
BM	BENCH MARK	IP	IRON PIPE
BC	BOTTOM OF CURVE	JWW	JACKSONVILLE WATER WORKS
CB	CATCH BASIN	LT	LEFT
CI	CAST IRON	MB	MAIL BOX
CL	CENTER LINE	MH	MANHOLE
CEP	CITY ELECTRIC POLE	OE	NOT TO SCALE
CONC	CONCRETE	OT	OVERHEAD TELEPHONE
CONST	CONSTRUCTION	POL	POINT ON LINE
CMP	CORRUGATED METAL PIPE	PRM	PERMANENT REFERENCE MONUMENT
CMPA	CORRUGATED METAL PIPE ARCH	PVC	POLYVINYL CHLORIDE
CPP	CONCRETE POWER POLE	R	RADIUS
CULV	CULVERT	RCP	REINFORCED CONCRETE PIPE
C&G	CURB & GUTTER	RT	RIGHT
C	CUT	R/W	RIGHT OF WAY
COJ	CITY OF JACKSONVILLE	RD	ROOF DRAIN
DBI	DITCH BOTTOM INVERT	SD	SIDE WALK
DW OR DR	DRIVEWAY	SW	SOUTHERN BELL TELEPHONE
DI	DUCTILE IRON	SBT	STATION
EOP	EDGE OF PAVEMENT	TCP	TERRA COTTA PIPE
ELEV	ELEVATION	TOP	TOP OF PIPE
ERCP	ELLIPTICAL REINFORCED CONC PIPE	UGE	UNDERGROUND ELECTRIC
EXP JT	EXPANSION JOINT	UGT	UNDERGROUND TELEPHONE
F	FILL	USC & GS	UNITED STATES COASTAL & GEODETIC SURVEY
FI	FIRE HYDRANT	VC	VITRIFIED CLAY
FL	FLOW LINE	WM	WATER METER
FM	FORCE MAIN	WV	WATER VALVE
GALV/GLV	GALVANIZED	WLP	WOOD LIGHT POLE
G	GAS LINE	WPP	WOOD POWER POLE
GV	GAS VALVE	WTP	WOOD TELEPHONE POLE
HDPE	HIGH DENSITY POLYETHYLENE PIPE		
HW	HEAD WALL		

UTILITY SYMBOLS

ELECTRIC POLE OR S.B.T. POLE (WOOD)	PP OR PP (WITH LIGHT)
WOOD POWER POLE	WPP
ELECTRIC POLE OR S.B.T. POLE (CONC.)	PP OR PP (WITH LIGHT)
CONCRETE POWER POLE	CPP
GUY WIRE	TS
TRAFFIC SIGNAL POLE	I.P.
IRON PIPE	OHE
OVERHEAD ELECTRIC	UGE
UNDERGROUND ELECTRIC	OT
OVERHEAD TELEPHONE	UGT
UNDERGROUND TELEPHONE	GAS
GAS MAIN (SIZE & MAT'L INDICATED)	CATV
CABLE TELEVISION	FO
FIBER OPTIC LINE	UG
UNDERGROUND CABLE (TYPE UNDETERMINED)	WM
WATER METER	WM(TR)
WATER METER WITH TOUCHREAD	CT
TELEPHONE BOX	CATV
CATV BOX	COM
CONCRETE MONUMENT	B-XX
GAS VALVE	SD-XX
SOIL BORING (NUMBER INDICATED)	A-XX
SOFT DIG (NUMBER INDICATED)	GW-XX
ASPHALT OR CONCRETE CORE SAMPLE (NUMBER INDICATED)	12" O
GROUND MONITORING WELL	MB
TREE, SIZE & TYPE INDICATED	OR SIGN
MAIL BOX	SHRUB
SIGN - TYPE INDICATED	FULL DEPTH ASPHALT PAVEMENT REPLACEMENT
BUSH, SHRUB OR HEDGE	ASPHALT OR CONCRETE PAVEMENT REMOVAL AND OVERLAY (COJ)
FULL DEPTH ASPHALT PAVEMENT REPLACEMENT	ASPHALT OR CONCRETE PAVEMENT REMOVAL AND OVERLAY (FDOT)
ASPHALT OR CONCRETE PAVEMENT REMOVAL AND OVERLAY (COJ)	CONFIRMED GOPHER TORTOISE BURROW
ASPHALT OR CONCRETE PAVEMENT REMOVAL AND OVERLAY (FDOT)	CONFIRMED GOPHER TORTOISE HABITAT AREA
CONFIRMED GOPHER TORTOISE BURROW	DELINEATED WELANDS
CONFIRMED GOPHER TORTOISE HABITAT AREA	TURBIDITY CURTAIN
DELINEATED WELANDS	SILT FENCE
TURBIDITY CURTAIN	LIMITS OF WETLAND DISTURBANCE
SILT FENCE	
LIMITS OF WETLAND DISTURBANCE	

EXISTING	PROPOSED
RIGHT OF WAY LINE	
CENTER LINE	
LIMITS OF CONSTRUCTION	
FENCE (HEIGHT & MAT'L INDICATED)	
DITCH OR SWALE	
DRAIN PIPE	
CATCH BASIN	
STORM DRAIN GRATE	
STORM SEWER (SIZE & MAT'L INDICATED)	
STORM SEWER REPLACEMENT (IN CASE 10 TRENCH) SIZE, MAT'L INDICATED	
STORM SEWER (SIZE & MAT'L INDICATED)	
CULVERT W/ENDWALLS (SIZE & MAT'L INDICATED)	
WATER MAIN SIZE, TYPE INDICATED	
WATER MAIN (IN CASE 10 TRENCH) SIZE, TYPE INDICATED	
GRAVITY SEWER SIZE, TYPE INDICATED	
SEWER FORCE MAIN SIZE, TYPE INDICATED	
LINE VALVE	
AIR RELEASE 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	
TEMPORARY SAMPLING/TEST TAP POINT (BACTERIOLOGICAL SAMPLING POINT)	
SILT HAY BARRIER	
SIDEWALK	
SILT FENCE (SE/SC)	
CONSTRUCTION SAFETY FENCE	
TEMPORARY CONSTRUCTION EASEMENT	
PERMANENT EASEMENT	

M

MOTT MACDONALD

NEW MOTT MACDONALD, LLC
10245 Carleton Parkway North
Suite 320
Jacksonville, Florida 32256
Telephone: (904) 232-1199
Architects AA - C0000035
Engineers EB - C0001185
Surveyors LS - C0000763

DESIGNER: B. NEU
DRAWN BY: B. LEE
DATE: APRIL 2018
CHECKED BY: P. MCURT
DATE: APRIL 2018

DESIGN ENGINEER
LESLIE S. SAMUEL, P.E., BOCE
FLORIDA REGISTRATION NO.
68763

PROJ. NO. 376869
DATE: APRIL 2018
SHEET NO. 2
SCALE: NTS

NO. OF SHEETS
SHEET NO.
DRAWING NO. G-2

WEST GRID LENOX TO TIMUQUANA
FORCE MAIN IMPROVEMENTS
WILSON TO TIMUQUANA SEGMENT
GENERAL NOTES AND LEGEND

DESIGNED BY: B. NEU
DRAWN BY: B. LEE
DATE: APRIL 2018
CHECKED BY: P. MCURT
DATE: APRIL 2018

DESIGN ENGINEER
LESLIE S. SAMUEL, P.E., BOCE
FLORIDA REGISTRATION NO.
68763

PROJ. NO. 376869
DATE: APRIL 2018
SHEET NO. 2
SCALE: NTS

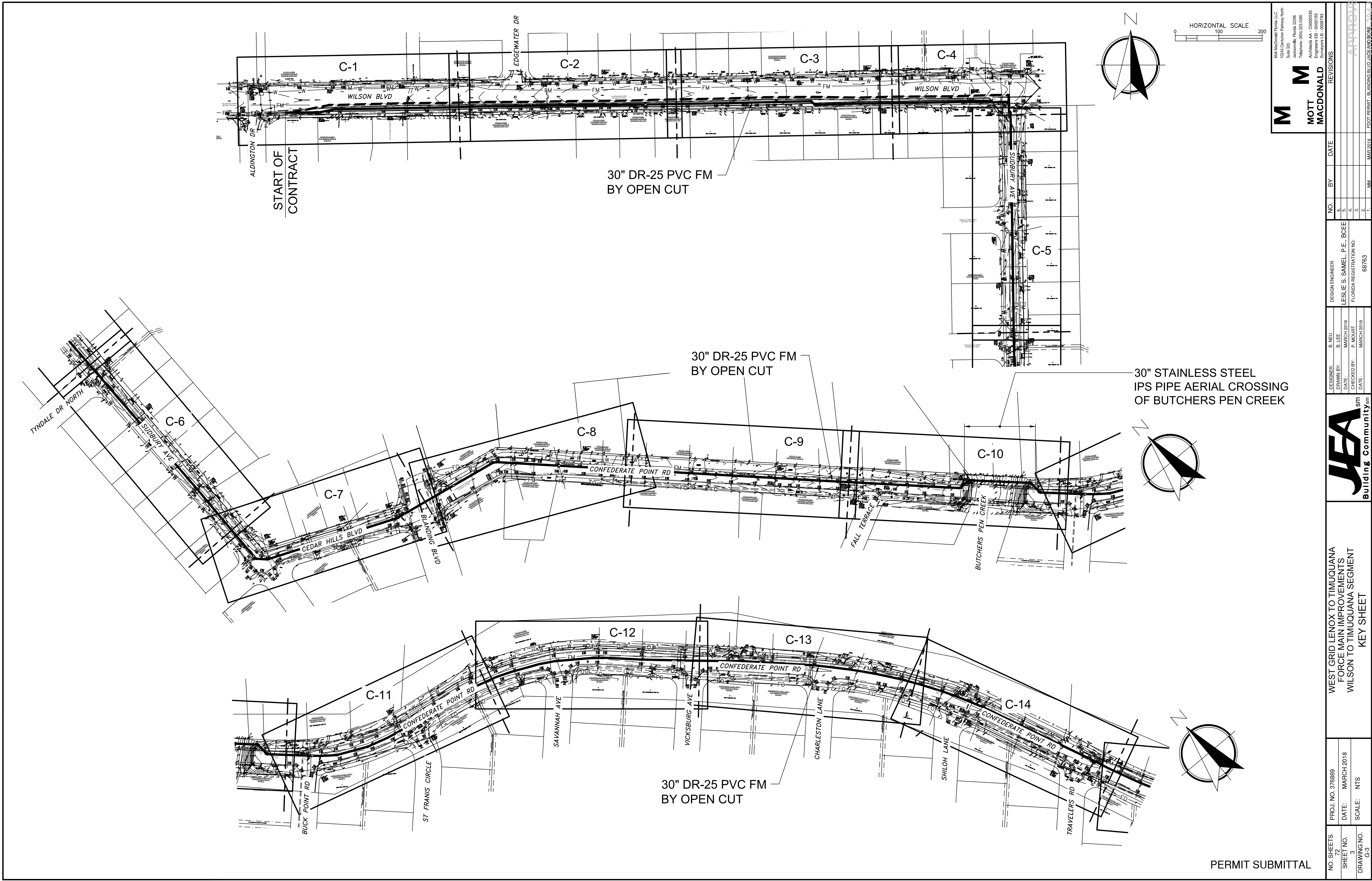
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SHEET NO.
DRAWING NO. G-2

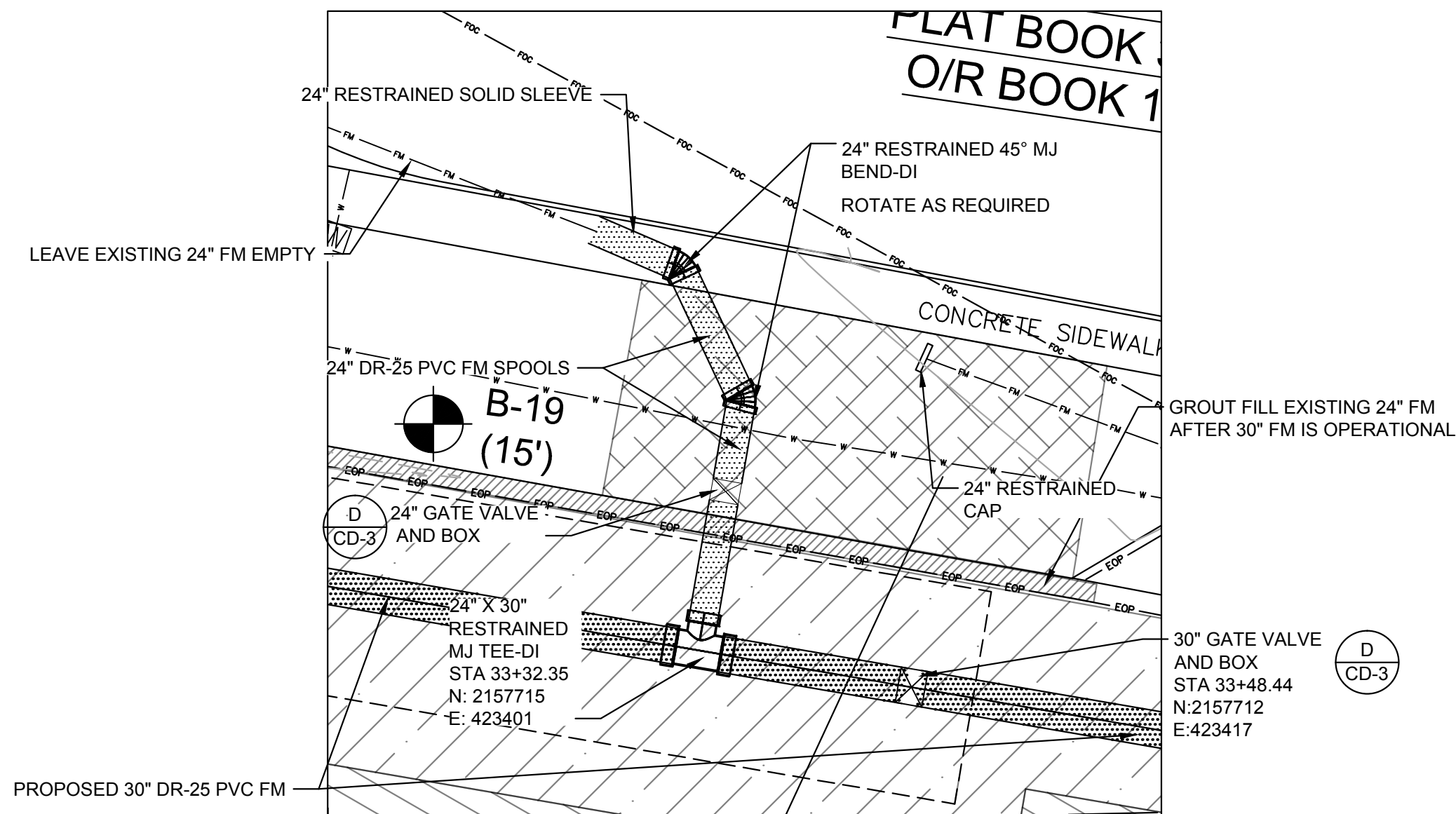
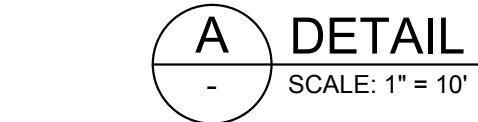
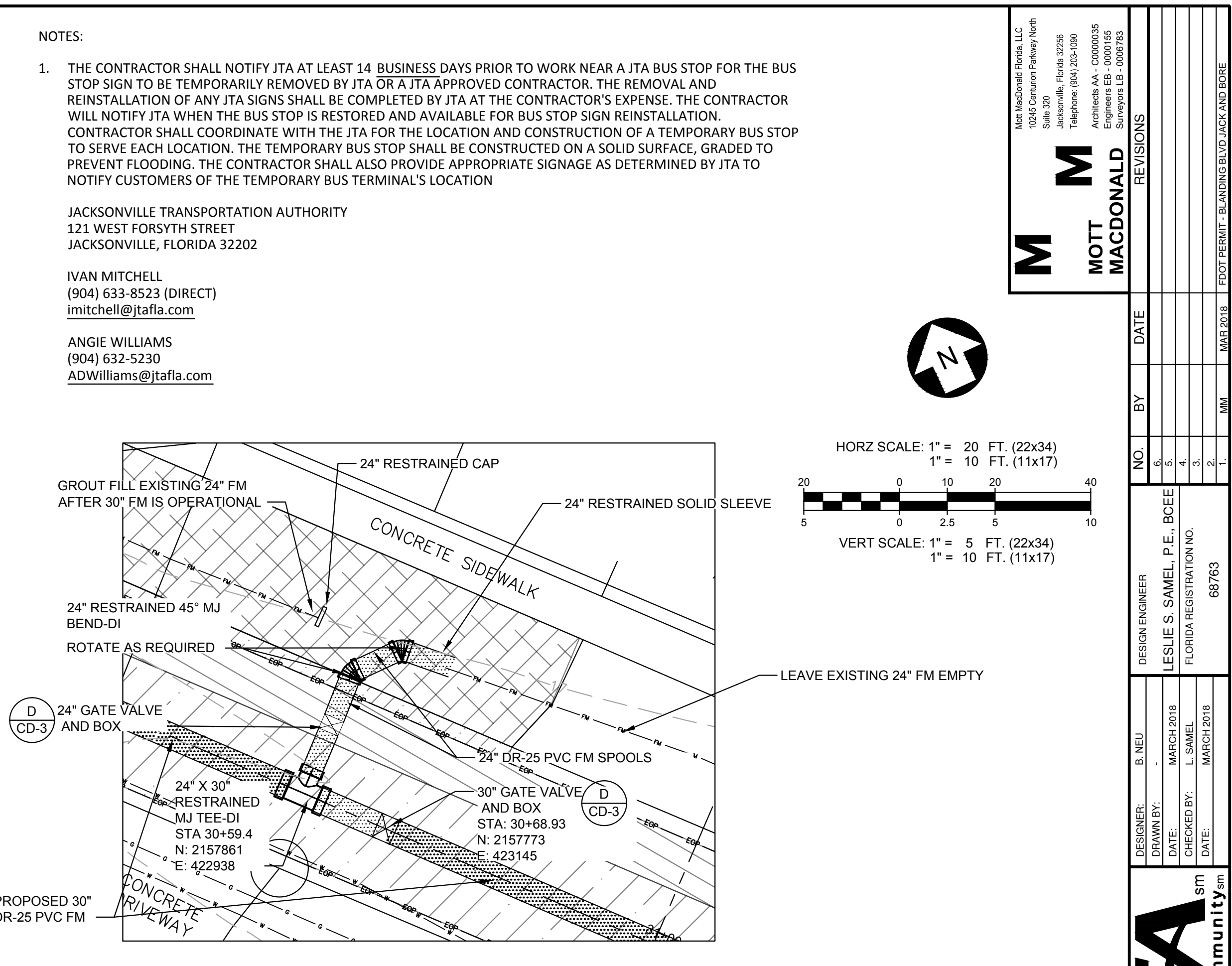
PERMIT SUBMITTAL

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004 F.A.C. 6/12/2018

Xrefs Attached= XCNSTPLN [..\\d0252014\\XCNSTPLN.dwg]
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JEA_SHT22234_BOR-WIS [..\\d0252016\\JEA_SHT22234_BOR-WIS.dwg]

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WEST GRID LENOX TO TIMUQUANA
FORCE MAIN IMPROVEMENTS
WILSON TO TIMUQUANA SEGMENT
STA 31+00 TO STA 33+75

NO. SHEETS 72		PROJ. NO. 376869	WEST GRID LENOX TO TIMUQUANA FORCE MAIN IMPROVEMENTS WILSON TO TIMUQUANA SEGMENT STA 31+00 TO STA 33+75				DESIGNER: B. NEU DRAWN BY: - DATE: MARCH 2018 CHECKED BY: L. SAMEL DATE: MARCH 2018		DESIGN ENGINEER LESLIE S. SAMEL, P.E., BCEE FLORIDA REGISTRATION NO. 68763		NO.	BY	DATE	REVISIONS	
SHEET NO. 12		DATE: MARCH 2018									6.				
DRAWING NO. C-8		SCALE: 1" = 20' 1" = 5'									4.				
											3.				
											2.				
											1.	MM	MAR 2018		FOOT PERMIT - BLANDING BLVD JACK AND BORE

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15.23.004 F.A.C.


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NOTES

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JANUARY 2018
PLATE S-26



- 
 24
 NTS

JANUARY 2018
PLATE S-1

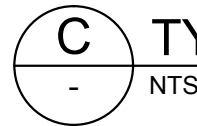
1. IT IS REQUIRED THAT WATER MAINS BE INSTALLED, CLEANED, DISINFECTED AND HAVE A SATISFACTORY BACTERIOLOGICAL SURVEY PERFORMED IN ACCORDANCE WITH THE LATEST APPLICABLE AWWA STANDARDS, CHAPTER 62-555, F.A.C. AND LATEST JEA WATER AND SEWER STANDARDS. FOR THE PURPOSE OF THIS SECTION, THE PHRASE "WATER MAINS" SHALL MEAN MAINS, INCLUDING TREATMENT PLANT PROCESS PIPING, CONVEYING EITHER RAW, PARTIALLY TREATED, OR FINISHED DRINKING WATER, FIRE HYDRANT LEADS, AND SERVICE LINES THAT HAVE AN INSIDE DIAMETER OF THREE (3) INCHES OR GREATER. IN ADDITION, THE PHRASE "RECLAIMED WATER" REFERS TO THE WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.
2. NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE (3) FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER.
3. NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST SIX (6) FEET, AND PREFERABLY TEN (10) FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER. THE MINIMUM HORIZONTAL SEPARATION DISTANCE BETWEEN WATER MAINS AND GRAVITY-TYPE SANITARY SEWERS MAY BE REDUCED TO THREE (3) FEET WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST SIX (6) INCHES ABOVE THE TOP OF THE SEWER (SPECIAL CASE).
4. NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED GRAVITY OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX (6) INCHES, AND PREFERABLY TWELVE (12) INCHES, ABOVE OR AT LEAST TWELVE (12) INCHES BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.
5. NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER OR STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS A LEAST TWELVE (12) INCHES ABOVE OR BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.
6. AT THE UTILITY CROSSINGS DESCRIBED IN NOTES 4 AND 5 ABOVE, ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE. ALTERNATIVELY, AT SUCH CROSSINGS, THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE (3) FEET FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, STORM SEWERS, STORMWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER, AND AT LEAST SIX (6) FEET FROM ALL JOINTS IN GRAVITY OR PRESSURE-TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINE CONVEYING RECLAIMED WATER.
7. NEW OR RELOCATED FIRE HYDRANTS SHALL BE LOCATED SO THAT THE HYDRANTS ARE AT LEAST THREE (3) FEET FROM ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER; AT LEAST THREE (3) FEET, AND PREFERABLY TEN (10) FEET, FROM ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER; AT LEAST SIX (6) FEET, AND PREFERABLY TEN (10) FEET, FROM ANY EXISTING OR PROPOSED GRAVITY OR PRESSURE-TYPE SANITARY SEWER OR WASTEWATER FORCE MAIN.
8. WHERE AN UNDERGROUND WATER MAIN IS BEING LAID LESS THAN THE REQUIRED MINIMUM HORIZONTAL DISTANCE FROM ANOTHER PIPELINE AND WHERE AN UNDERGROUND WATER MAIN IS CROSSING ANOTHER PIPELINE AND JOINTS IN THE WATER MAIN ARE BEING LOCATED LESS THAN THE REQUIRED MINIMUM DISTANCE FROM JOINTS IN THE OTHER PIPELINE, THE CONTRACTOR SHALL CONSULT THE DESIGN ENGINEER TO OBTAIN APPROVAL OF ANY ALTERNATIVE CONSTRUCTION METHODS, PRIOR TO CONSTRUCTION.

B **SE**
- NTS

JANUARY 2018
PLATE S-27



JANUARY 2018
PLATE S-25

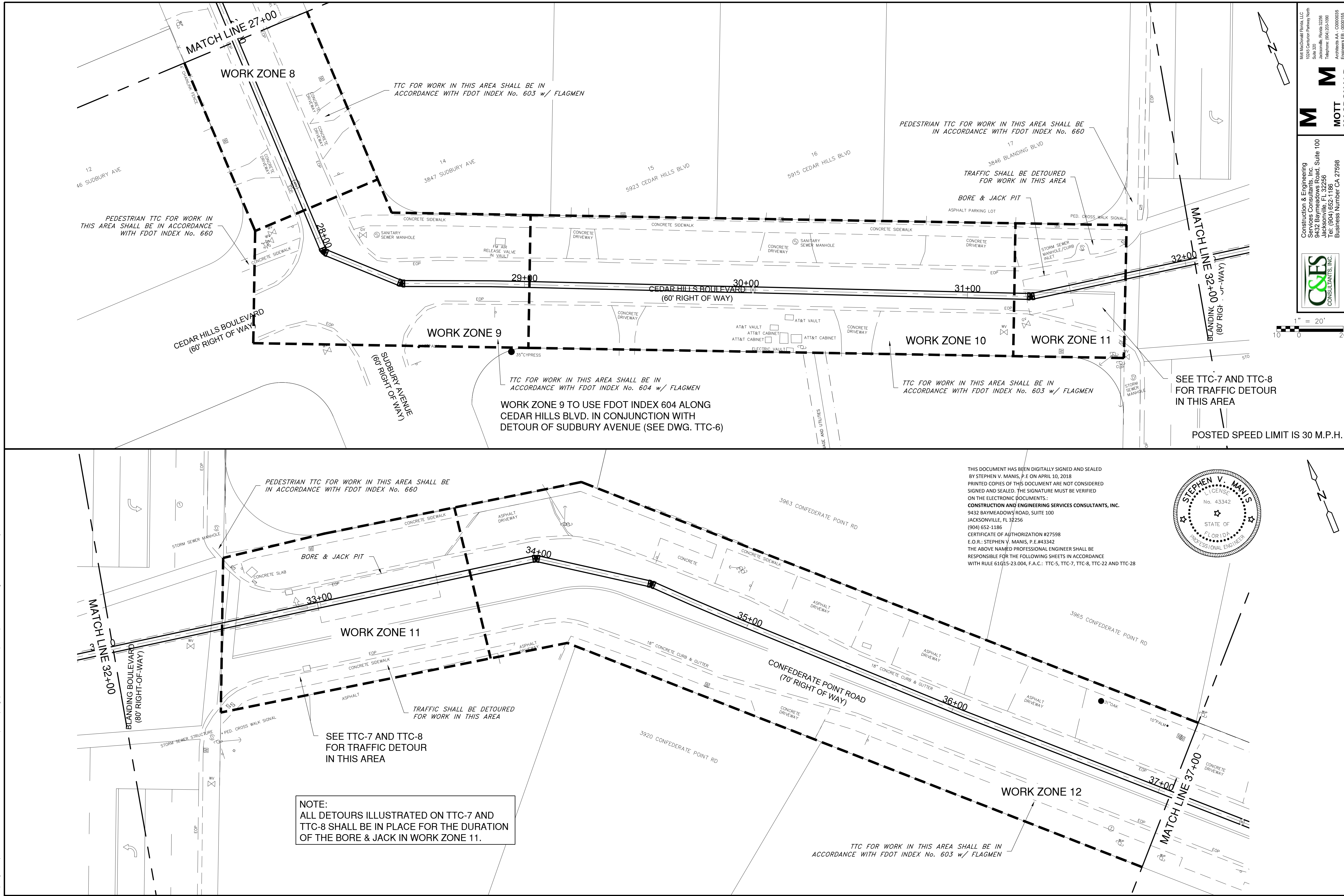






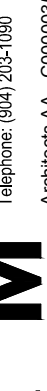
JANUARY 2018
PLATE S-18

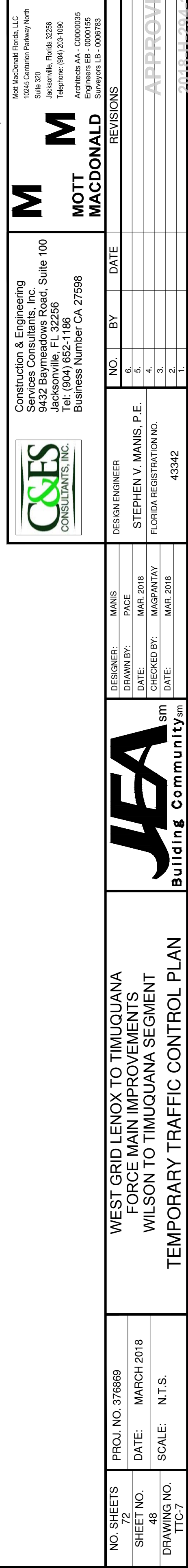
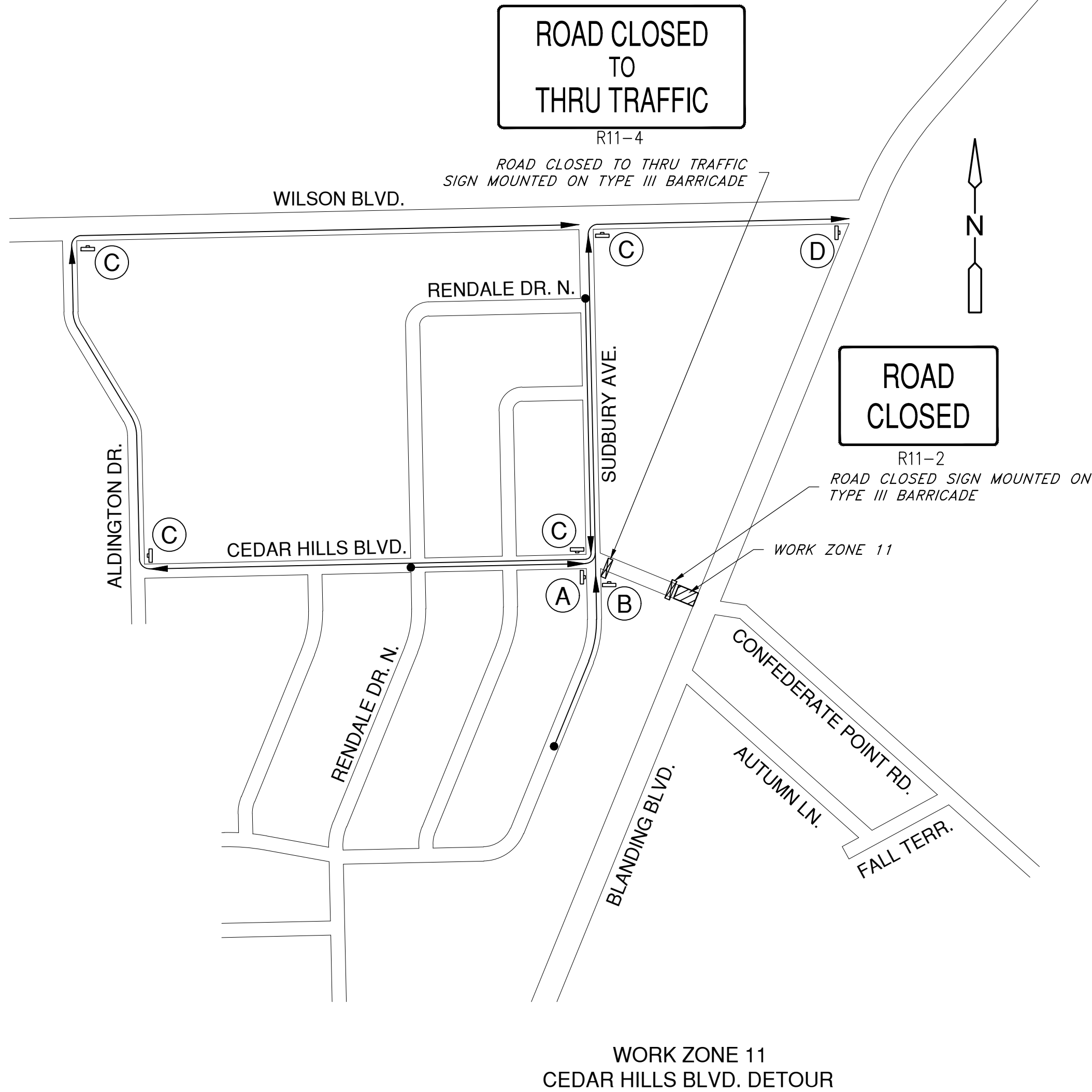


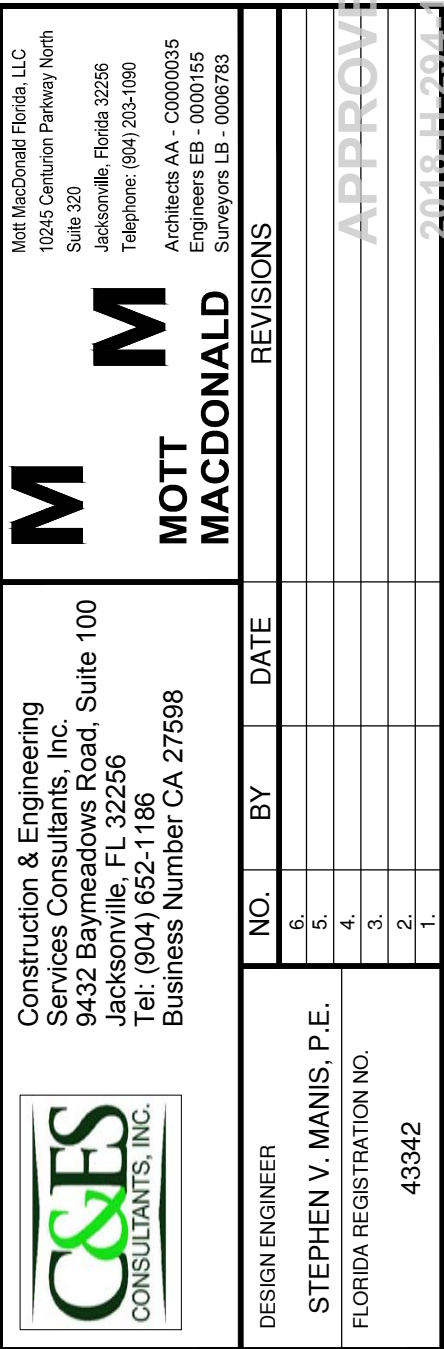
JANUARY 2018
PLATE S-25

NO SHEET 72
SHEET 37
DRAWING CD-173
2018-H-294-173
Julian McKinley
6/12/2018



NO. SHEETS 72		PROJ. NO. 376869		WEST GRID LENOX TO TIMUQUANA FORCE MAIN IMPROVEMENTS WILSON TO TIMUQUANA SEGMENT TEMPORARY TRAFFIC CONTROL PLAN										Construction & Engineering C&ES Consultants, Inc. 9432 Bayview Road, Suite 100 Jacksonville, FL 32256 Tel: (904) 652-1186 Business Number CA 27598				Mott MacDonald Florida LLC 10245 Cumulation Parkway North Suite 320 Jacksonville, Florida 32256 Telephone: (904) 203-1950 Architects AA - C0000035 Engineers EB - 00001655 Surveyors LS - 00067683	
SHEET NO. 46		DATE: MARCH 2018 SCALE: 1" = 20'										DESIGN ENGINEER STEPHEN V. MANIS, P.E. FLORIDA REGISTRATION NO. 43342		NO. BY DATE		REVISIONS			
DRAWING NO. TTC-5												1. 43342		6.				APPROVED 2018.03.26	







*** 500' beyond the ROAD WORK AHEAD sign and
midway between signs whichever is less.*

9. For general TCZ requirements and additional information, refer to Index No. 600.

25	25	50	25	50
30 to 45	25	50	30	50
50 to 70	25	50	50	100

1. *Temporary white edgeline may be omitted for work operations less than 3 consecutive calendar days.*
2. *For work operations up to approximately 15 minutes, signs, channelizing devices, arrow board, and buffer space may be omitted if all of the following conditions are met:*
 - a. *Speed limit is 45 mph or less.*
 - b. *No sight obstructions to vehicles approaching the work area for a distance equal to the buffer space and the taper length combined.*
 - c. *Volume and complexity of the roadway has been considered.*
3. *For work operations up to 60 minutes, arrow board and buffer space may be omitted if conditions a, b, and c in DURATION NOTE 2 are met, and vehicles in the work area have high-intensity, rotating, flashing, oscillating, or strobe lights operating.*

55	495	600	$L = WS$
60	570	720	
65	645	780	

For lateral transitions other than 12', use
formula for L shown in notes column.
Where:

WHERE ANY VEHICLE, EQUIPMENT,
WORKERS OR THEIR ACTIVITIES
ENCROACH ON THE LANE ADJACENT
TO EITHER SHOULDER AND THE
AREA 2' OUTSIDE THE EDGE OF
TRAVEL WAY.

SHEET
NO.
1 of 2