



## ADDENDUM NO. 2

Issue Date: March 21, 2022

Project Name: IRC-1639: 69<sup>th</sup> Street From 66<sup>th</sup> Avenue to SR5/US-1, Resurfacing (SCOP)

Bid Number: 2022028

FDOT FM No.: 438073-1-54-01

Bid Opening Date: **April 1, 2022 at 2:00 p.m. [UPDATED]**

This addendum is being released to provide the pre-bid meeting minutes and sign-in sheet, answer bidder questions received to date, provide bid plans in AutoCAD format, modify the bid documents, and extend the deadline for receipt of questions and bids.

The information and documents contained in this addendum are hereby incorporated in the invitation to bid. **This addendum must be acknowledged where indicated on the bid form, or the bid will be declared non-responsive.**

### **Modifications to Bid Documents:**

The deadline for receipt of bids is hereby extended to Friday, April 1, 2022 at 2:00 p.m. Questions must be received by 2:00 p.m. on March 23, 2022 to be considered.

Section 00800, Supplementary Conditions to the General Conditions: **Delete** Section SC-5.06 in its entirety. Property Insurance is not required.

**Replace** Itemized Bid Schedule (section 00310-3), with the attached **Itemized Bid Schedule – Addendum 2.**

**Replace Plan Sheet 4, Summary of Pay Items with Plan Sheet 4, Summary of Pay Items – Addendum 2**

**Replace Plan Sheet 38A, Miscellaneous Detail with Plan Sheet 38A, Miscellaneous Detail – Addendum 2**

### **Questions and Answers**

1. Can you supply AutoCAD files to use with the bidding process?  
**AutoCAD files are provided with this Addendum No.2.**

2. Can a Pavement Full Depth Reclamation subcontractor qualify the prime contractor for the FDR experience requirement?  
**Yes, the intent of requirement is that the contractor performing the FDR work have 5-years' experience performing FDR.**
3. What does Clearing and Grubbing include?  
**Clearing and Grubbing removal of 6-inches of organic material, but does not include the cut section for the roadway widening.**
4. Is there a field office required?  
**A Field office is not required for this project, the Section in Contract Document, General Division 1, Section 00200, Article 6, a Field Office is not applicable.**
5. Does the contractor performing the directional drilling required to have five years' experience, and be a General Contractor?  
**The contractor performing directional drilling shall have experience performing this type of work.**
6. Can the requirement for Builder's Risk Insurance be waived?  
**Builder's Risk (property) insurance is not required for this project.**
7. Does Polyacrylamide need to be applied on all disturbed areas?  
**Application Polyacrylamide shall be part of the Contractor's SWPPP plan.**
8. Will there be an insurance requirement for the FEC (Florida East Coast) Railroad required?  
**No work will be within railroad right of way.**
9. Is the County honoring fuel and Bitumen adjustment costs?  
**Fuel and bitumen adjustment costs are excluded from County projects.**
10. The cross-section sheets numbered 64-79 reflect a difference in design from the existing crown section to the proposed cross slope section. How will correct quantities be accounted for and how will they be paid?  
**A new Pay Item No. 210-2A for additional Coquina Base material has been added to the Itemized Bid Schedule and, Plan Sheet-4, Summary of Pay Items and are included with Addendum 2.**
11. How are design quantity deficiencies between stations are handled?  
**All deficiencies encountered will need to be identified before breaking the road and will be addressed at that time.**
12. What is the contractor's responsibility if soils encountered do not meet specification of the maximum percentage of 200 sieve fines?  
**A change in existing field conditions would be addressed by a Work Change Directive and reimbursed with the force account if found to be valid.**
13. How was the sod quantity determined?  
**Sod quantities have been estimated on area of soil disturbance (North R/W of 69<sup>th</sup> Street to South R/W or the top of bank of the Sub-Lateral Canal.**
14. What Pay Item is mowing included?

**Mowing is included in the Mobilization Pay Item No. 101-1.**

15. How will the proposed cross slope match the existing roadway?  
**The transition from the proposed roadway cross slope to the existing roadway slope will occur within a distance of approximately 50-feet from the connection to the existing roadway.**
16. What work does the pay item for Mail Box (F&I) include?  
**The existing mail box will be removed and replaced with a new mail box. However, coordination with the property owner will be required to confirm they agree with the replacement.**
17. What Pay Item is demolition of pipe, concrete, and asphalt included?  
**Demolition of pipe, concrete, and asphalt is included in the Clearing and Grubbing Pay Item No. 110-1-1.**
18. The Detail M-2 referenced on the plans for restoration of pavement over piping is missing?  
**Plan Sheet-38A, Miscellaneous Detail with Detail M-2 is attached with Addendum 2.**
19. Will the FDR Asphalt Emulsion and Portland Cement be separate pay items from the FDR Pay Item?  
**New Pay Items No. 283-1 for the Asphalt Emulsion and No. 283-2 for the Portland Cement have been added to the Itemized Bid Schedule and Plan Sheet-4, Summary of Pay Items and are included with Addendum 2.**

**Attachments:**

Meeting Minutes of Pre-Bid Meeting held on March 16, 2022, including Sign-In sheet  
Revised Itemized Bid Schedule – Addendum 1  
Revised Plan Sheet-4, Summary of Pay Items  
Revised Plan Sheet-38A, Miscellaneous Detail  
Lost Tree Preserve Offsite Improvement Plans  
Bid Plans in AutoCAD format



# Board of County Commissioners

1801 27th Street  
 Vero Beach, Florida 32960-3365  
 Telephone: (772) 567-8000  
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## PRE-BID MEETING MINUTES

MARCH 16, 2022, 10:00 AM

INDIAN RIVER COUNTY ADMINISTRATION BUILDING

Room B1-501 Building B

69<sup>th</sup> STREET FROM 66<sup>TH</sup> AVENUE TO SR5/US-1, RESURFACING

PROJECT No. IRC-1639, FDOT FM No. 438073-1-54-01

*The following meeting notes set forth our understanding of the discussions and decisions made at the subject meeting. If no objections, questions, additions, or comments are received within two (2) working days from issuance of the meeting minutes, we will assume that our understandings are correct. The project will move forward according to the bid plans and specifications and the understandings herein.*

Project Name: 69<sup>th</sup> Street from 66<sup>th</sup> Avenue to SR5/US-1, Resurfacing  
 Project Number: IRC-1639  
 Bid Number: 2022028  
 FDOT FM No.: 438073-1-54-01

### **INTRODUCTIONS / SIGN IN SHEET:**

**This meeting was recorded as part of the project records.**

This was a Pre-bid meeting; attendance at this conference by all bidders was **MANDATORY**.

No bidder arriving after the meeting began was allowed to sign in. See attached Sign-in Sheet for attendees.

### **PROJECT DESCRIPTION:**

The proposed improvements to 69<sup>th</sup> Street from 66<sup>th</sup> Avenue to SR5/US-1 consist of reconstructing the roadway utilizing full depth reclamation, new asphalt concrete pavement, drainage improvements, watermain installation, sidewalk installation, signing and pavement markings. This is an F.D.O.T. Small County Outreach Program (SCOP) funded project, FM No. 438073-1-54-01.

### **CONTRACT DETAILS**

Bid opening: Friday, April 1, 2022 at 2:00 PM  
 Contract time: 210 days to substantial completion  
 240 days to final completion  
 Estimate: \$3,320,891.00 (includes a \$430,000.00 force account)  
 Liquidated Damages: \$2,712.00 per day

**CONTACTS BIDDING PROCESS**

All communications concerning this bid shall be directed to Indian River County Purchasing Division at [purchasing@ircgov.com](mailto:purchasing@ircgov.com).

**PROJECT CONSULTANTS:**

Brian Good, PE  
Kimley-Horn and Associates, Inc.

**UTILITIES**

AT&T  
Comcast  
Florida Power and Light, Co. – Distribution  
Indian River County Traffic Operations  
Indian River County Utilities  
Indian River Farms Water Control District (IRFWCD)

**PROJECT REQUIREMENTS:**

- Bidder must be registered with and use, at their sole expense, the Department of Homeland Security's E-Verify system ([www.e-verify.gov](http://www.e-verify.gov)) to confirm the employment eligibility of all newly hired employees, as required by Section 448.095, F.S.. Owner, Contractor, and Subcontractors may not enter into a contract unless each party to the contract registers with and uses the E-Verify system. Contractor is responsible for obtaining proof of E-Verify registration for all Subcontractors. This requirement applies to any provider of services or goods.
- Submittals, RFI's and Pay Apps will be submitted via e-Builder, the County's cloud based shared file platform.
- Invoicing shall be submitted on monthly basis and must include Consent of Surety, all applicable release of liens, and all other documents as noted in the Contract Documents.
- Funding for this project is through a State grant. This is a County project but any proposed changes to the project are required to be reviewed by F.D.O.T. for concurrence. The grant is of a reimbursement type which means the County pays the Contractor and the State reimburses the County. F.D.O.T. provides oversight to the project and in addition to other items requiring concurrence by F.D.O.T. are contractual changes, time extensions and weather days. However, it is still a County administered project.
- Any change orders, revisions, time extensions and weather days need to be submitted and approved by Indian River County and FDOT. Weather letters will be issued on a monthly basis and will need FDOT approval.
- Summary of required Contractors bid forms can be found on the submittal's checklist (Section 00200, Instructions to Bidders, Article 15 – Submittal of Bid).
- Contractor Qualifications: Bidders shall be a qualified General Contractor registered in the State of Florida. Bidders shall have a minimum of three years of experience in the construction of reclaimed asphalt base course. Bidders shall provide a list of five successfully completed full depth reclamation (FDR) projects within the State of Florida along with a valid contact name and phone number for the Owners of those projects, and the completion date for each project.

- Provide list of Subcontractors per Bid Documents, Section 00458 – List of Subcontractors.

### **OTHER ISSUES**

- Bidders to review plan documents and provide comments to Indian River Purchasing Department as soon as possible. No further comments or questions will be addressed from end of business, **March 23, 2022**.
- Governing Standards and Specifications for this project will be FDOT Standard Specifications for Road and Bridge Construction dated January 2019, FDOT Standard Plans FY 2018-19, and Indian River County Standard Specifications.
- All testing will be performed per FDOT specifications, or as specified in the Contract Documents.
- Sequence of construction: Watermain installation followed by FDR and asphalt.
- Review Contract Documents Division 2 – Technical Provisions, and Appendices A-D.
- Review Technical Provisions Section 283 – Reclaimed Asphalt Pavement Base.
- Permits for the project are provided in Appendix ‘A’.
- Review Appendix ‘D’ - Subsurface Soil Exploration and Geotechnical Engineering Evaluation.
- HDD required for a section of the watermain installation under IRFWCD Lateral ‘G’ Canal.
- Pressure pipe and associated watermain components to be used for the project are specified in the Technical Provisions, Section -18, IRC Utilities Approved Manufactures’ Products List.
- Coordination will be required with the Developer Project “Lost Tree Preserve”.
- IRC work hours are Monday to Friday from 7:00 AM to 5:00 PM.
- Maintenance of Traffic:
  - Contractor shall submit a Maintenance of Traffic Plan to the Indian River County, Engineering Division for approval
  - The Maintenance of Traffic Plan shall meet the requirements set forth in the FDOT Index 600, FY2020-2021 Edition and shall be signed and sealed by a Florida PE.
  - Access for school, businesses and residences, school buses, sanitation & US Postal Service and emergency vehicles must be maintained at all times.
  - Temporary Lane Closures require notice to the IRC traffic department 72-hours in advance and can be conducted between 9 AM and 4 PM.
  - Detour routes must be developed and signed by a Professional Engineer and approved by the County.
- There will be an Addendum (that will include the Meeting Minutes) – Bidders to review plan documents and provide comments to Purchasing (purchasing@ircgov.com) by end of business **March 23, 2022**.

## DISCUSSION

- Mark Winslow stated the sequence of construction shall be watermain installation and drainage improvements followed by FDR and asphalt
- James Ennis (Indian River County Engineering) stated the contractor can use the FDR mix design provided by the Geotechnical Engineer or they can provide their own mix design and it will need to be submitted to the County for evaluation. Costs for testing and development of a proposed mix design shall be the responsibility of the contractor.
- David Gunter (Indian River Farms Water Control District) stated that during HDD watermain installation, his permit requirements must be followed and one requirement is ( Zero NTU's (Nephelometric Turbidity Units) of discharged turbidity against the background water. Any offsite drainage or dewatering will also have to meet the same discharge requirements.
- The new poles that are going to be installed by FP&L will take place after the project begins and clearing has taken place. The poles will not be located in, but will span the wetlands. The wetlands that will be impacted by the widening of the road have been previously mitigated.
- Brian Good (Kimley Horn) stated that Lost Tree Preserve has a requirement to construct the section of watermain from STA. 201+5 to STA. 218+80 through a developer agreement with the County. Watermain construction is part of this contract and will require the Contractor to coordinate the tie in of the new watermain with the Lost Tree Preserve constructed section at STA. 201+5. A copy of the applicable plan sheets for the Lost Tree Preserve 69<sup>th</sup> St. Offsite Improvements will be provided in the addendum.
- A forthcoming addendum will be addressing a change to the FDR pay item. It is currently listed as a Square Yard unit and all-inclusive of emulsion and cement. The change will reflect individual items for mixing, emulsion, and cement and will include their respective quantities. The Force Accounts as shown in the Itemized Bid Schedule are only used for items that are unanticipated and additional to the work. It is not for the purpose of price increases in materials. It is a fixed line item in the bid schedule and not to be modified. It is not paid out unless there is additional work issued and approved by the County.
- Jennifer Hyde (Indian River County Purchasing Division) stated that every empty line item in the Itemized Bid Schedule must be filled in with a unit price cost amount or the bid will be disqualified.
- Kirstin Leiendecker (Indian River County Engineering) stated that all of the bid forms must be filled out and submitted for bids to be qualified. All addendums must be acknowledged in the bid forms for the bids to be qualified.
- Tim Rose (Timothy Rose Contracting) stated the plans don't incorporate FDR in the road widening. Brian Good stated that a 1-foot overlap with new widened shoulder base will be included in the FDR roadway breaking.
- Tim Rose stated there is a road cut of 2-1/2 inches shown in the plans and asked how this will be paid. Brian Good stated the pavement core results showed 10-inches of existing base rock. The intention is not to change the road grade throughout the entire project; however, there are some locations where it the grades are modified in order to accommodate field conditions. The removal of the materials is intended to be included as part of the unit cost of the FDR Pay Item No. 283-7.
- Tim Rose asked what Clearing and Grubbing includes. Brian Good stated it includes the removal of 6-inches of organic material. James Ennis & Brian Good clarified that Clearing

and Grubbing doesn't include the cut section calculation for the road widening and that excavation pay item has been calculated to include the shoulder surface to the bottom of the proposed shoulder widening typical section.

- Tim Rose asked if the contractor is required to take core samples before they submit a bid. Brian Good clarified the purpose of the referenced language is allow the Contractor to take samples in the event that the Contractor wants to propose an alternative design to what is already approved for the project. James Ennis added that there will be no compensation for the core sampling, and the Contractor will assume any risk for testing. Coordination with the County must take place prior to coring the roadway, and the Contractor will be responsible for roadway restoration.
- Zach Rose asked for confirmation that the road can be closed. Brian Good stated the Maintenance of Traffic Plan is the responsibility of the Contractor and road closures would need to be submitted to and approved by the County. James Ennis clarified that the temporary lane closure language is intended for closures outside of the mixing operation. Road closures will be allowed, conditional to the approval of the project specific MOT plan, to take place during the mixing operation under the condition that local access is maintained. A full closure of 69<sup>th</sup> Street from 66<sup>th</sup> Avenue to Lost Tree Village will not be allowed. Full closures will need to be done in sections so as to allow reasonable traffic maintenance.
- A field office will not be required for this project and will be specified in an addendum.
- James Ennis confirmed that project station markers are required every 100' throughout the project. This is also specified within the contract at Section 01050 – Field Engineering and Layout, 1.3 Station Boards, A.
- Zach Rose asked if the Contractor that will do the directional drilling has to have five years of experience can be a General Contractor. The Contractor that performs the directional drilling should have experience performing this type of work.
- Brian Good clarified the concrete for the sidewalk shall be fiber mesh reinforced and have a minimum strength of 3,000 psi.
- Rob Morris (FP&L) stated their pole relocations, for a section of the project from STA. 199+60 to STA. 209+50 will be against the right of way. All of the vegetation will need to be cleared and anything that overhangs in the right of way will need to be trimmed and everything removed as FP&L doesn't perform that type of work. Kirstin Leiendecker stated that FP&L will be required to coordinate with the Contractor to perform and complete their work. A question was asked if there was a Utility Work Schedule so as to assure against any delays in the Contractor's work. Rob Morris stated their permit for the work is forthcoming and their work will be performed in a timely manner once they know when the project begins. James Ennis stated that once the Notice to Proceed is issued, the Contractor is expected to proceed with erosion control installation along with clearing & grubbing in such a manner that allows for FPL to proceed with their utility relocations as soon as possible.
- Brian Good stated that in addition to other utilities, the plans reflect a deflection of a proposed waterline under an existing AT&T fiber line and it is at the northeast corner of 58<sup>th</sup> Avenue and 69<sup>th</sup> Street.
- David Gunter stated there is a canal maintenance road on the east side of the Lateral G Canal that is also posted with a street sign as 46<sup>th</sup> Court which serves as access for several residences. Mr. Gunter noted that this is a private road and should not be used for any



construction material storage or activities.

- A question was asked if Builder's Risk Insurance, per the contract, is necessary. The requirement for Builder's Risk Insurance will be addressed in the addendum.
- A question was asked about the application of Polyacrylamide on all disturbed areas but it's not clear as to how long after earthwork activities the application should take place. James Ennis stated the application should be part of the Contractor's SWPPP (Stormwater Pollution Prevention Plan) best management practices for dust control and that application rates/frequency should be based upon the Contractor's monitoring that should take place so that dust doesn't become a pollutant.
- The adjacent project, IRC-1325: 58<sup>th</sup> Avenue Full Depth Reclamation, is already complete and no project coordination is necessary.
- No insurance for the FEC (Florida East Coast) Railroad will be necessary as no work shall take place within their right of way.
- Fuel and bitumen adjustment costs are excluded from County projects.
- The cross section sheets numbered 64-79 reflect a difference in design from the existing crown section to the proposed cross slope section. A question was asked how correct quantities would be accounted for and how they would be paid. Brian Good stated the additional quantities were accounted for in both base rock items. He stated it can be quantified during construction by the station limits in the plans, and that a pay item for the additional tonnage of Coquina base material will be provided.
- It was stated that the cross section stations are every 100' and there is concern that in between the stations there could be a design quantity deficiency. Brian Good stated any deficiency would have to be addressed as it was found and James Ennis stated anything as such would need to be identified prior to breaking the road surface.
- A Contractor stated there is concern as to how the maximum percentage of material passing the No. 200 sieve was to be achieved. Brian Good stated the core samples tested were well below the maximum allowed. It is not the intent for the Contractor to have to make those changes if there were an area that exceeded the amount allowed and it would have to be addressed at the time it occurs. He stated that situation may require a change to the amount of base replacement. James Ennis stated if soil conditions unexpectedly changed in a manner that was substantially different compared to what was expected in the mix design then the mix design would have to be adjusted accordingly and that the, the purpose of the contingency fund was to address these types of unexpected field conditions.
- Brian Good stated that the quantities for sod were determined based on where soil disturbance will take place, which is from the north right of way of 69<sup>th</sup> Street to either the south right of way or the top of the bank of the Sub-Lateral Canals.
- It was stated that mowing does not have a separate line item. Mowing is included in the Mobilization Pay Item No. 101-1.
- A question was asked about the proposed cross slope changes that will take place. Brian Good confirmed the only places where this occurs is where this project will transition into an existing condition, usually within a distance of 50'.
- The roadway pay item for Mail Box, furnish and install, was clarified that the intent is for the old mail boxes to be removed and new mail boxes to be installed. However, coordination with the property owner will be required to confirm they agree with the replacement.

- Brian Good stated that at the horizontal direction drill under the canal, there is a footnote that the Contractor is to locate all existing utilities prior to the work being performed and the cost of the locates, including soft-digs, shall be included in the cost for the directional drill activity.
- A question was asked about the demolition of pipe, concrete, and asphalt and the item associated with that activity. Brian Good stated those activities are to be included in Clearing and Grubbing.
- A question was asked about pipe crossing detail M-2 and how it wasn't included in the plans. Brian Good stated that detail will be sent out in an addendum. He stated the pipe should be installed first and per detail M-2. Tim Rose and Zach Rose questioned the order in which the work is to take place when installing drainage and James Ennis stated for clarification that the roadway can be broken, the drainage or utility installed, the trench be restored per detail M-2 and the FDR process be performed throughout. If the Contractor chose to perform the drainage work first, the trench would need to be restored per detail M-2 and it would include temporary asphalt.
- Mark Winslow (Indian River County Engineering) stated that all addendums will need to be acknowledged in the bids.
- James Ennis stated that after the meeting, all questions need to be directed to the Purchasing Division and no other County staff should be called for questions. The deadline for questions is **Wednesday, March 23, 2022, 2:00PM**. The project is anticipated to be awarded during the first BCC meeting in May and the anticipated Notice to Proceed is the first week of June. Kirstin Leiendecker stated the AutoCAD drawings will be included as part of the addendum.
- Meeting adjourned.

**ATTACHED:**

Sign-In Sheet

**PRE-BID MEETING  
SIGN-IN SHEET  
69<sup>TH</sup> STREET FROM 66<sup>TH</sup> AVENUE TO SR5/US-1, RESURFACING  
IRC PROJECT NUMBER: IRC-1639  
Bid Number 2022028  
FDOT FM No. 428073-1-54-01  
MARCH 16, 2022 – 10:00 AM**

NAME	COMPANY & ADDRESS	PHONE # / FAX # / CELL #	EMAIL ADDRESS
KEVIN HANSEN	IRC ENGINEERING	772-226-1465	KHANSEN@IRCGOV.COM
Brian Good	KHA	794-4083	brian.good@kwalshorn.com
MARK WINSLOW	INDIAN RIVER COUNTY	(772) 205-1397	M.WINSLOW@IRCGOV.COM
Zach Rose	TRC	772-493-7953	Zach@timothyrosecontracting.com
Steve Skelton	Ranger	407-468-8519	estimating@rangerconstruction.com
Justin Andrews	CW Roberts	880-666-2605	jandrews@cwcontracting.com
John Korswold	Dickerson FL Inc.	772-429-4444	JKorswold@dfi.fl.com
Tim Rose	TRC	772-564-7800	Tim@Timothyrosecontracting.com
Bill Stellony	MJC	561-688-5001	B.Stellony@MJC Land Dev. Corp
Kirshu Wienduch	IRC	772-226-1327	k.wienduch@ircgov.com
DAVID E GUNTER	IRFWCD	772-473-8018	_____
JAMES ERNS	IRC Pw	1221	_____



**PRE-BID MEETING  
SIGN-IN SHEET  
69<sup>TH</sup> STREET FROM 66<sup>TH</sup> AVENUE TO SR5/US-1, RESURFACING  
IRC PROJECT NUMBER: IRC-1639  
Bid Number 2022028  
FDOT FM No. 428073-1-54-01  
MARCH 16, 2022 – 10:00 AM**

NAME	COMPANY & ADDRESS	PHONE # / FAX # / CELL #	EMAIL ADDRESS
Phoned In:			
Jill Williams	IRC Engineering		
Rob Morris	FP&L		
Luke Folkerts	<del>FP&amp;L</del> AT&T		

**ITEMIZED BID SCHEDULE**

**\* ADDENDUM 2 3/21/2022**

**PROJECT NAME: 69th STREET FROM 66th AVENUE TO SR5/US-1, RESURFACING**

**PROJECT NO. IRC-1639**

**BID NO. 2022028**

**FM NO. 438073-1-54-01**

**BIDDER'S Name:**

Item No.	Description	Unit	Quantity	Unit Price	Amount
<b>ROADWAY PAY ITEMS</b>					
101-1	MOBILIZATION/ DEMOBILIZATION	LS	1		
102-1	MAINTENANCE OF TRAFFIC	LS	1		
104-2	PREVENTION, CONTROL, AND ABATEMENT OF EROSION AND WATER POLLUTION	LS	1		
110-1-1	CLEARING & GRUBBING	AC	14		
110-7-1	MAIL BOX (F&I)	EA	31		
120-1	REGULAR EXCAVATION	CY	8,628		
120-6	EMBANKMENT	CY	1,753		
160-4	TYPE B STABILIZATION	SY	16,808		
* 210-2A	COQUINA, NEW MATERIAL FOR REWORKING BASE	TN	266		
* 283-1	ASPHALT EMULSION TYPE CSS-1H - PAYMENT WILL BE BASED ON ACTUAL QTY.	GAL	55,000		
* 283-2	CEMENT TYPE 1 OR TYPE 2 - PAYMENT WILL BE BASED ON ACTUAL QTY.	TN	200		
283-7	FULL DEPTH BASE RECLAMATION (10" MIXING DEPTH)	SY	19,942		
285-706	OPTIONAL BASE GROUP 04 (CEMENTED COQUINA, LBR 100, 6")	SY	13,111		
285-716	OPTIONAL BASE GROUP 18 (CEMENTED COQUINA, LBR 100, 16")	SY	1,781		
334-1-13A	SUPERPAVE ASPHALT CONCRETE, (SP-12.5) (TRAFFIC C) (1.5")	TN	2,674		
334-1-13B	SUPERPAVE ASPHALT CONCRETE, (SP-12.5) (TRAFFIC C) (2")	TN	141		
337-7-82	ASPHALTIC CONCRETE FRICTION COURSE (FC-9.5) (TRAFFIC C) (1")	TN	1,781		
400-1-2	CONCRETE CLASS I, ENDWALLS	CY	4.1		
425-1-521	INLETS, DT BOT, TYPE C, <10'	EA	12		
425-1-551	INLETS, DT BOT, TYPE E, <10' (W/ CONC. APRON)	EA	1		
425-2-41	MANHOLE (TYPE 7) (P-BOTTOM) (<10')	EA	1		
430-175-115	CONCRETE PIPE CULVERT (15") (S/CD) (CL III)	LF	133		
430-175-118A	CONCRETE PIPE CULVERT (18") (S/CD) (CL III)	LF	438		
430-175-118B	CORRUGATED ALUMINUM PIPE CULVERT (18") (S/CD)	LF	50		
430-175-124A	CONCRETE PIPE CULVERT (24") (S/CD)(CL III)	LF	23		
430-964-4	PVC PIPE FOR NON-STANDARD DRAINAGE (10") (SCH 80)	LF	25		
430-984-119	MITERED END SECTION (ROUND) (10") (SD)	EA	1		
430-984-123	MITERED END SECTION (ROUND) (15") (SD)	EA	3		
430-984-125	MITERED END SECTION (ROUND) (18") (SD)	EA	1		
520-1-10	CONCRETE CURB AND GUTTER (TYPE F)	LF	412		
520-2-4	CONCRETE CURB (TYPE D)	LF	21		
520-3	VALLEY GUTTER - CONCRETE (2' WIDE)	LF	110		
522-2	CONCRETE SIDEWALK AND DRIVEWAYS (6" THICK) (FIBER REINFORCED)	SY	334		
530-3-4	RIPRAP - RUBBLE (F&I) (DITCH LINING)	TN	50		

**ITEMIZED BID SCHEDULE**

**\* ADDENDUM 2 3/21/2022**

**PROJECT NAME: 69th STREET FROM 66th AVENUE TO SR5/US-1, RESURFACING**

**PROJECT NO. IRC-1639**

**BID NO. 2022028**

**FM NO. 438073-1-54-01**

**BIDDER'S Name:**

Item No.	Description	Unit	Quantity	Unit Price	Amount
570-1-1	PERFORMANCE TURF (SOD) (BAHIA)	SY	35,000		
999-1	ASBUILT SURVEYING AND RECORD DRAWING PREPARATION (BY REGISTERED SURVEYOR)	LS	1		
<b>ROADWAY SUB-TOTAL =</b>					
<b>SIGNING AND PAVEMENT MARKINGS PAY ITEMS</b>					
700-1-11	SINGLE POST SIGN, F&I, GROUND MOUNT, UP TO 12 SF	AS	18		
700-1-13	SINGLE POST SIGN, F&I, GROUND MOUNT, 20-30 SF	AS	1		
700-1-50	SINGLE POST SIGN, RELOCATE	AS	1		
700-13-15	RETROREFLECTIVE SIGN STRIP - F&I, 5'	EA	1		
706-3	RETRO-REFLECTIVE MARKERS	EA	362		
711-11-121	THERMOPLASTIC, STD, WHITE, SOLID, 6"	LF	16,480		
711-11-125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24"	LF	111		
711-11-141A	THERMOPLASTIC, STD, WHITE, SKIP (6'-10'), 6"	LF	107		
711-11-141B	THERMOPLASTIC, STD, WHITE, SKIP (2'-4'), 6"	LF	200		
711-11-160	THERMOPLASTIC, STD, WHITE, MESSAGE	EA	1		
711-11-221	THERMOPLASTIC, STD, YELLOW, SOLID, 6"	LF	10,696		
711-11-224	THERMOPLASTIC, STD, YELLOW, SOLID, 18"	LF	38		
711-11-231	THERMOPLASTIC, STD, YELLOW, SKIP (10'-30'), 6"	LF	4,020		
<b>SIGNING AND PAVEMENT MARKINGS SUB-TOTAL =</b>					
<b>UTILITY PAY ITEMS</b>					
999-1A	UTILITY ASBUILT SURVEYING AND RECORD DRAWING PREPARATION (BY REGISTERED SURVEYOR)	LS	1		
1050-31-206	UTILITY PIPE (F&I) (PVC) (WATER MAIN) (6")	LF	20		
1050-31-208	UTILITY PIPE (F&I) (PVC) (WATER MAIN) (8")	LF	31		
1050-31-212	UTILITY PIPE (F&I) (PVC) (WATER MAIN) (12")	LF	5,919		
1050-42-214	UTILITY PIPE (F&I) (HDPE, DR 11) (WATER MAIN) (14")	LF	250		
1055-51-112	UTILITY FITTING (F&I) (45 DEGREE BEND) (WATER MAIN) (12")	EA	20		
1055-51-206	UTILITY FITTING (F&I) (TEE) (DI) (WATER MAIN) (6"X6")	EA	1		
1055-51-208	UTILITY FITTING (F&I) (TEE) (DI) (WATER MAIN) (8"X8")	EA	2		
1055-51-208A	UTILITY FITTING (F&I) (TEE) (DI) (WATER MAIN) (6"X8")	EA	2		
1055-51-212	UTILITY FITTING (F&I) (TEE) (DI) (WATER MAIN) (6"X12")	EA	2		
1055-51-212A	UTILITY FITTING (F&I) (TEE) (DI) (WATER MAIN) (8"X12")	EA	4		
1055-51-308	UTILITY FITTING (F&I) (REDUCER) (DI) (WATER MAIN) (6"X8")	EA	2		
1055-51-410	UTILITY FITTING - 12"x14" PVC/HDPE TRANSITION COUPLING	EA	2		
1055-51-508	UTILITY FITTING (F&I) (CAP) (DI) (8") (WATER MAIN)	EA	4		
1060-11-222A	UTILITY STRUCTURE AND MANHOLE - BELOW GROUND W/ ARV (<80 CF) (9.1'-12')	EA	1		
1080-11-499	UTILITY FIXTURE (F&I) (TEMPORARY JUMPER CONNECTION) (2")	EA	1		

00310-4

**ITEMIZED BID SCHEDULE****\* ADDENDUM 2 3/21/2022****PROJECT NAME: 69th STREET FROM 66th AVENUE TO SR5/US-1, RESURFACING****PROJECT NO. IRC-1639****BID NO. 2022028****FM NO. 438073-1-54-01****BIDDER'S Name:**

Item No.	Description	Unit	Quantity	Unit Price	Amount
1080-24-406	UTILITY FIXTURE (RELOCATE) (VALVE ASSEMBLY) (WATER MAIN) (6")	EA	1		
1080-24-108	UTILITY FIXTURE (F&I) (VALVE ASSEMBLY) (WATER MAIN) (8")	EA	4		
1080-24-112	UTILITY FIXTURE (F&I) (VALVE ASSEMBLY) (WATER MAIN) (12")	EA	7		
1080-32-106	UTILITY FIXTURE (F&I) (SAMPLE POINT) (WATER MAIN) (6")	EA	2		
1080-32-108	UTILITY FIXTURE (F&I) (SAMPLE POINT) (WATER MAIN) (8")	EA	4		
1080-32-112	UTILITY FIXTURE (F&I) (SAMPLE POINT) (WATER MAIN) (12")	EA	3		
1644-136-08	FIRE HYDRANT (F&I) (3 WAY) (2 HOSE, 1 PUMPER) (6")	EA	5		
<b>UTILITY SUB-TOTAL =</b>					
<b>ROADWAY SUB-TOTAL =</b>					
<b>SIGNING AND MARKING SUB-TOTAL =</b>					
999-25	<b>FORCE ACCOUNT - ROADWAY =</b>				\$350,000.00
<b>UTILITY SUB-TOTAL =</b>					
999-25A	<b>FORCE ACCOUNT - UTILITY =</b>				\$80,000.00
<b>TOTAL PROJECT BID AMOUNT (INCLUDING FORCE ACCOUNTS) =</b>					

LS=Lump Sum AC=Acre EA=Each CY=Cubic Yard SY=Square Yard TN=Ton LF=Linear Foot AS=Assembly

**NOTE: IF THERE IS A DISCREPANCY BETWEEN THE PLANS (SUMMARY OF PAY ITEMS) AND THE ITEMIZED BID SCHEDULE, THE BID SCHEDULE WILL BE UTILIZED FOR BIDDING PURPOSES.****TOTAL PROJECT BID AMOUNT IN WORDS:**  
\_\_\_\_\_  
\_\_\_\_\_

# ADDENDUM 2

## SUMMARY OF PAY ITEMS

PAY ITEM NO.	DESCRIPTION	UNIT	PROJECT QUANTITY
<b>ROADWAY PAY ITEMS</b>			
101-1	MOBILIZATION/ DEMOBILIZATION	LS	1
102-1	MAINTENANCE OF TRAFFIC	LS	1
104-2	PREVENTION, CONTROL & ABATEMENT OF EROSION AND WATER POLLUTION	LS	1
110-1-1	CLEARING & GRUBBING	AC	14.0
110-7-1	MAIL BOX (F&I)	EA	31
120-1	REGULAR EXCAVATION	CY	8,628
120-6	EMBANKMENT	CY	1,753
166-4	TYPE "B" STABILIZATION	SY	16,808
210-2A	COQUINA, NEW MATERIAL FOR REWORKING BASE	TN	226
283-1	ASPHALT EMULSION TYPE CSS-1H - PAYMENT WILL BE BASED ON ACTUAL QTY.	GAL	55,000
283-2	CEMENT TYPE 1 OR TYPE 2 - PAYMENT WILL BE BASED ON ACTUAL QTY.	TN	200
283-7	FULL DEPTH BASE RECLAMATION (10' MIXING DEPTH)	SY	19,942
285-706	OPTIONAL BASE GROUP 04 (CEMENTED COQUINA, LBR 100, 6")	SY	13,111
285-716	OPTIONAL BASE GROUP 18 (CEMENTED COQUINA, LBR 100, 16")	SY	1,781
334-1-13A	SUPERPAVE ASPHALT CONCRETE (SP-12.5) (TRAFFIC C) (1.5")	TN	2,674
334-1-13B	SUPERPAVE ASPHALT CONCRETE (SP-12.5) (TRAFFIC C) (2")	TN	141
337-7-82	ASPHALTIC CONCRETE FRICTION COURSE (FC-9.5) (TRAFFIC C) (1")	TN	1,781
400-1-2	CONCRETE CLASS 1, ENDWALLS	CY	4.1
425-1-521	INLETS, DT BOT, TYPE C, <10'	EA	12
425-1-551	INLETS, DT BOT, TYPE E, < 10' (W/ CONC. APRON)	EA	1
425-2-41	MANHOLE (TYPE 7) (P-BOTTOM) (<10') (W/ 36" DIA. RING & COVER)	EA	1
430-175-115	CONCRETE PIPE CULVERT (15") (S/CD) (CL III)	LF	133
430-175-118A	CONCRETE PIPE CULVERT (18") (S/CD) (CL III)	LF	438
430-175-118B	CORRUGATED ALUMINUM PIPE CULVERT (18") (S/CD)	LF	50
430-175-124A	CONCRETE PIPE CULVERT (24") (S/CD) (CL III)	LF	23
430-964-4	PVC PIPE FOR NON-STANDARD DRAINAGE (10") (SCH 80)	LF	25
430-984-119	MITERED END SECTION (ROUND) (10") (SD)	EA	1
430-984-123	MITERED END SECTION (ROUND) (15") (SD)	EA	3
430-984-125	MITERED END SECTION (ROUND) (18") (SD)	EA	1
520-1-10	CONCRETE CURB AND GUTTER (TYPE F) (3000 PSI MIN. CONCRETE MIX)	LF	412
520-2-4	CONCRETE CURB (TYPE D)	LF	21
520-3	VALLEY GUTTER - CONCRETE (2' WIDE) (3000 PSI MIN. CONCRETE MIX)	LF	110
522-2	CONCRETE SIDEWALK AND DRIVEWAYS (6" THICK) (FIBER REINFORCED)	SY	334
530-3-4	RIPRAP - RUBBLE (F&I) (DITCH LINING)	TN	50.0
570-1-1	PERFORMANCE TURF (SOD) (BAHIA)	SY	35,000
999-1	ASBUILT SURVEYING AND RECORD DRAWING PREPARATION (BY REGISTERED SURVEYOR)	LS	1
<b>SIGNING AND MARKING PAY ITEMS</b>			
700-1-11	SINGLE POST SIGN, F&I, GROUND MOUNT, UP TO 12 SF	AS	18
700-1-13	SINGLE POST SIGN, F&I, GROUND MOUNT, 20-30 SF	AS	1
700-1-50	SINGLE POST SIGN (RELOCATE)	AS	1
700-13-15	RETROREFLECTIVE SIGN STRIP- F&I, 5'	EA	1
706-3	RETRO-REFLECTIVE MARKERS	EA	362
711-11-121	THERMOPLASTIC, STD, WHITE, SOLID, 6"	LF	16,480
711-11-125	THERMOPLASTIC, STD, WHITE, SOLID, 24"	LF	111
711-11-141A	THERMOPLASTIC, STD, WHITE, SKIP (6'-10'), 6"	LF	107
711-11-141B	THERMOPLASTIC, STD, WHITE, SKIP (2'-4'), 6"	LF	200
711-11-160	THERMOPLASTIC, STD, WHITE, MESSAGE	EA	1
711-11-221	THERMOPLASTIC, STD, YELLOW, SOLID, 6"	LF	10,696
711-11-224	THERMOPLASTIC, STD, YELLOW, SOLID, 18"	LF	38
711-11-231	THERMOPLASTIC, STD, YELLOW, SKIP (10'-30'), 6"	LF	4,020

PAY ITEM NO.	DESCRIPTION	UNIT	PROJECT QUANTITY
<b>UTILITY PAY ITEMS</b>			
999-1A	UTILITY ASBUILT SURVEYING AND RECORD DRAWING PREPARATION (BY REGISTERED SURVEYOR)	LS	1
1050-31-206	UTILITY PIPE (F&I) (PVC) (WATER MAIN) (6")	LF	20
1050-31-208	UTILITY PIPE (F&I) (PVC) (WATER MAIN) (8")	LF	31
1050-31-212	UTILITY PIPE (F&I) (PVC) (WATER MAIN) (12")	LF	5,919
1050-42-214	UTILITY PIPE (F&I) (HDPE, DR 11) (WATER MAIN) (14")	LF	250
1055-51-112	UTILITY FITTING (F&I) (45 DEGREE BEND) (WATER MAIN) (12")	EA	20
1055-51-206	UTILITY FITTING (F&I) (TEE) (DI) (WATER MAIN) (6"x6")	EA	1
1055-51-208	UTILITY FITTING (F&I) (TEE) (DI) (WATER MAIN) (8"x8")	EA	2
1055-51-208A	UTILITY FITTING (F&I) (TEE) (DI) (WATER MAIN) (6"x8")	EA	2
1055-51-212	UTILITY FITTING (F&I) (TEE) (DI) (WATER MAIN) (6"x12")	EA	2
1055-51-212A	UTILITY FITTING (F&I) (TEE) (DI) (WATER MAIN) (8"x12")	EA	4
1055-51-308	UTILITY FITTING (F&I) (REDUCER) (DI) (WATER MAIN) (6"x8")	EA	2
1055-51-410	UTILITY FITTING - 12"x14" PVC/HDPE TRANSITION COUPLING	EA	2
1055-51-508	UTILITY FITTING (F&I) (CAP) (DI) (8") (WATER MAIN)	EA	4
1060-11-222A	UTILITY STRUCTURE AND MANHOLE - BELOW GROUND W/ ARV (<80 CF) (9.1'-12')	EA	1
1080-11-499	UTILITY FIXTURE (F&I) (TEMPORARY JUMPER CONNECTION) (2")	EA	1
1080-24-406	UTILITY FIXTURE (RELOCATE) (VALVE ASSEMBLY) (WATER MAIN) (6")	EA	1
1080-24-108	UTILITY FIXTURE (F&I) (VALVE ASSEMBLY) (WATER MAIN) (8")	EA	4
1080-24-112	UTILITY FIXTURE (F&I) (VALVE ASSEMBLY) (WATER MAIN) (12")	EA	7
1080-32-106	UTILITY FIXTURE (F&I) (SAMPLE POINT) (WATER MAIN) (6")	EA	2
1080-32-108	UTILITY FIXTURE (F&I) (SAMPLE POINT) (WATER MAIN) (8")	EA	4
1080-32-112	UTILITY FIXTURE (F&I) (SAMPLE POINT) (WATER MAIN) (12")	EA	3
1644-136-08	FIRE HYDRANT (F&I) (3 WAY) (2 HOSE, 1 PUMPER) (6")	EA	5

### PAY ITEM FOOTNOTES

- 101-1 COST TO INCLUDE CONSTRUCTION LAYOUT SURVEY
- 102-1 MAINTENANCE OF TRAFFIC COSTS SHALL INCLUDE BUT NOT LIMITED TO CONSTRUCTION SIGNS, BUSINESS SIGNS, TEMPORARY BARRICADES, VARIABLE MESSAGE SIGNS, TEMPORARY REFLECTIVE MARKERS, TEMPORARY PAVEMENT MARKINGS, INCIDENTAL TEMPORARY PAVEMENT, DUST CONTROL, ANY TEMPORARY DRAINAGE ELEMENTS BEYOND WHAT IS SPECIFIED IN THE CONTRACT DOCUMENTS, AND ALL ITEMS NECESSARY TO MEET THE MAINTENANCE OF TRAFFIC REQUIREMENTS OF THE FLORIDA DEPARTMENT OF TRANSPORTATION AS PRESCRIBED IN SECTION 102-XXXOF THE FDOT STANDARD PLANS.
- 283-7 COST TO INCLUDE, BUT NOT LIMITED TO, ALL MIXING, SAMPLING, CERTIFICATION, TESTING, AND WATER NECESSARY TO DEMONSTRATE COMPLIANCE WITH THE SPECIFICATION STANDARDS.
- 285-7XX THE COST OF PRIME COAT SHALL BE INCLUDED IN THE PRICE OF THE BASE MATERIAL.
- 334-1-13X THE COST OF THE TACK COAT SHALL BE INCLUDED IN THE PRICE OF ASPHALT.
- 425-1-551 COST TO INCLUDE CONCRETE APRON.
- 430-964-4 COST TO INCLUDE ALL FITTINGS, REDUCERS AND BENDS.
- 522-2 COST TO INCLUDE, BUT NOT LIMITED TO, SYNTHETIC FIBER REINFORCEMENT AT 1.5 LB PER CY.
- 530-3-4 COST TO INCLUDE FILTER FABRIC.
- 570-1-1 COST OF PERFORMANCE TURF TO INCLUDE SOD, FERTILIZER, MOWING, WATERING, TOOLS, EQUIPMENT, PEGGING, LABOR AND ALL INCIDENTAL ITEMS NECESSARY. ALL SOD PLACED ON A EMBANKMENT SLOPE STEEPER THAN 3:1 SHALL BE PEGGED.
- 1050-31-XX COST TO INCLUDE, BUT NOT LIMITED TO, ALL RESTRAINTS, CLEANING AND TESTING.
- 1644-136-08 COST TO INCLUDE ALL PIPING, FITTINGS, RESTRAINTS AND TESTING NECESSARY TO INSTALL HYDRANT.

REVISIONS						<b>Kimley»Horn</b> <small>BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 696</small>	<b>INDIAN RIVER COUNTY</b> <b>BOARD OF COUNTY COMMISSIONERS</b> <b>69TH STREET FROM 66TH AVENUE</b> <b>TO SR5/US-1, RESURFACING</b>	<b>SUMMARY OF PAY ITEMS</b>	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION				4
3/18/22	RMP	△ IRC COMMENTS							



**NOTES:**

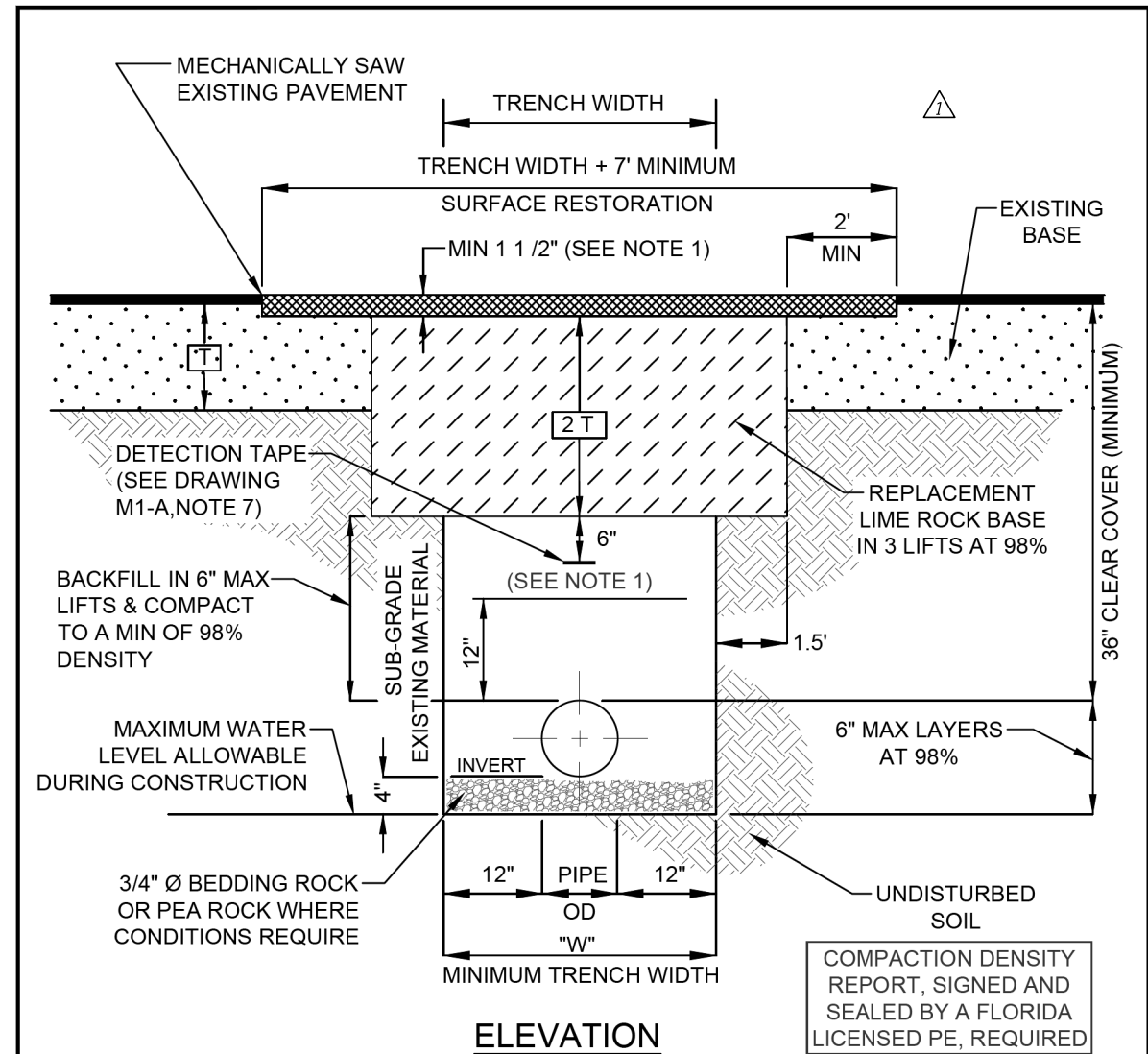
- WHERE SOIL CONDITIONS CANNOT BE MAINTAINED AS SHOWN ABOVE, PROVIDE METHOD OF CONSTRUCTION TO IRCDUS FOR APPROVAL.
- SHEETING WILL BE REQUIRED AS DETERMINED IN THE FIELD IN ACCORDANCE WITH OSHA REGULATIONS.
- COMPACTION PERCENTAGES SHOWN REFER TO AASHTO T-180 MODIFIED PROCTOR METHOD.
- MECHANICAL COMPACTION NOT ALLOWED BELOW THIS LEVEL OTHER THAN HAND VIBRATORY MEANS.
- COMPACTION REPORTS REQUIRED.
- MINIMUM TRENCH WIDTH "W" = PIPE O.D. PLUS 2'-0".
- 2" DETECTION TAPE WITH METALLIC BACKING TO BE INSTALLED OVER MAIN 6" BELOW BOTTOM OF BASE COURSE. TAPE TO BE MARKED "CAUTION-WATER LINE BELOW", "CAUTION-FORCE MAIN BELOW", OR "CAUTION-REUSE MAIN BELOW". TRACE WIRE SHALL BE USED CONTINUOUSLY ON ALL PIPE. SEE DRAWING, No. M-14, TRACE WIRE DETAIL.
- ALL RESTORATION IN EASEMENTS OR RIGHT-OF-WAYS OR WHEN REQUIRED BY OTHER JURISDICTIONAL AGENCIES SHALL CONFORM TO IRCDUS SPECIFICATIONS OR THE OTHER JURISDICTIONAL AGENCY SPECIFICATION, WHICHEVER IS MORE STRINGENT.
- ALL PIPE TO BE LOCATED A MINIMUM OF 5' O.C. (TYPICAL) FROM EDGE OF PAVEMENT.
- EXCAVATABLE FLOWABLE FILL IS ALLOWED WITH PRIOR APPROVAL OF PROPOSED MATERIAL STRENGTH BY COUNTY PUBLIC WORKS ENGINEER OR DESIGNEE.

INDIAN RIVER COUNTY  
DEPARTMENT OF  
UTILITY SERVICES

TRENCH DETAIL  
NOTES

DRAWING  
NO.  
M-1  
A  
MAY 2019

**ADDENDUM 2**



**NOTES:**

- MECHANICAL COMPACTION NOT ALLOWED BELOW THIS LEVEL OTHER THAN HAND VIBRATORY MEANS.
- NEW SURFACE MATERIALS SHALL BE CONSISTENT IN DEPTH WITH EXISTING MATERIALS AND SHALL HAVE LAPPED JOINTS, ( 1 1/2" MINIMUM THICKNESS). PAVEMENT MATERIAL TO BE SPECIFIED.
- MINIMUM TRENCH WIDTH "W" = PIPE OD PLUS 2'-0".
- EXCAVATABLE FLOWABLE FILL IS ALLOWED WITH PRIOR APPROVAL OF PROPOSED MATERIAL STRENGTH BY COUNTY PUBLIC WORKS ENGINEER OR DESIGNEE.

INDIAN RIVER COUNTY  
DEPARTMENT OF  
UTILITY SERVICES

TRENCH DETAIL (PAVED  
AREAS & SHOULDERS)

DRAWING  
NO.  
M-2  
MAY 2019

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
3/18/22	RMP	IRC COMMENTS			

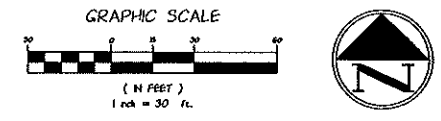
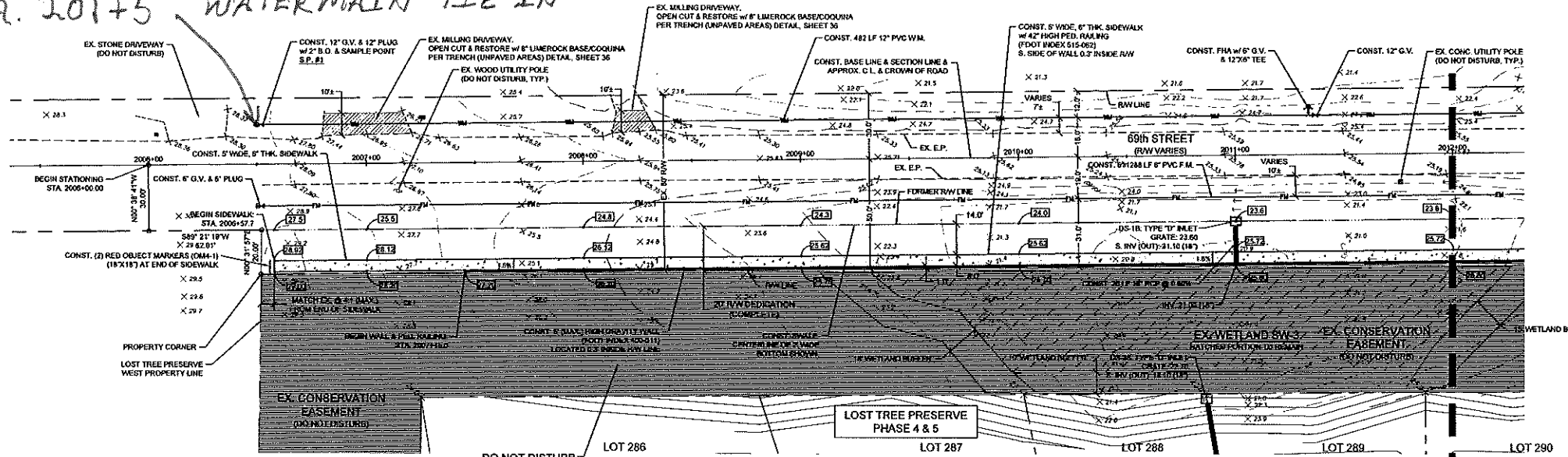
**Kimley»Horn**  
BRIAN A. GOOD, P.E.  
P.E. LICENSE NUMBER 56939  
445 24th STREET, SUITE 200  
VERO BEACH, FL 32960  
(772) 794-4100  
REGISTRY No. 696

INDIAN RIVER COUNTY  
BOARD OF COUNTY COMMISSIONERS  
69TH STREET FROM 66TH AVENUE  
TO SR5/US-1, RESURFACING

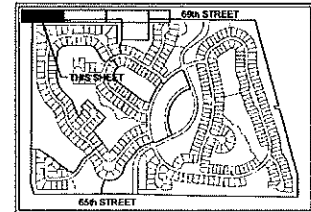
MISCELLANEOUS DETAIL

SHEET  
NO.  
38A

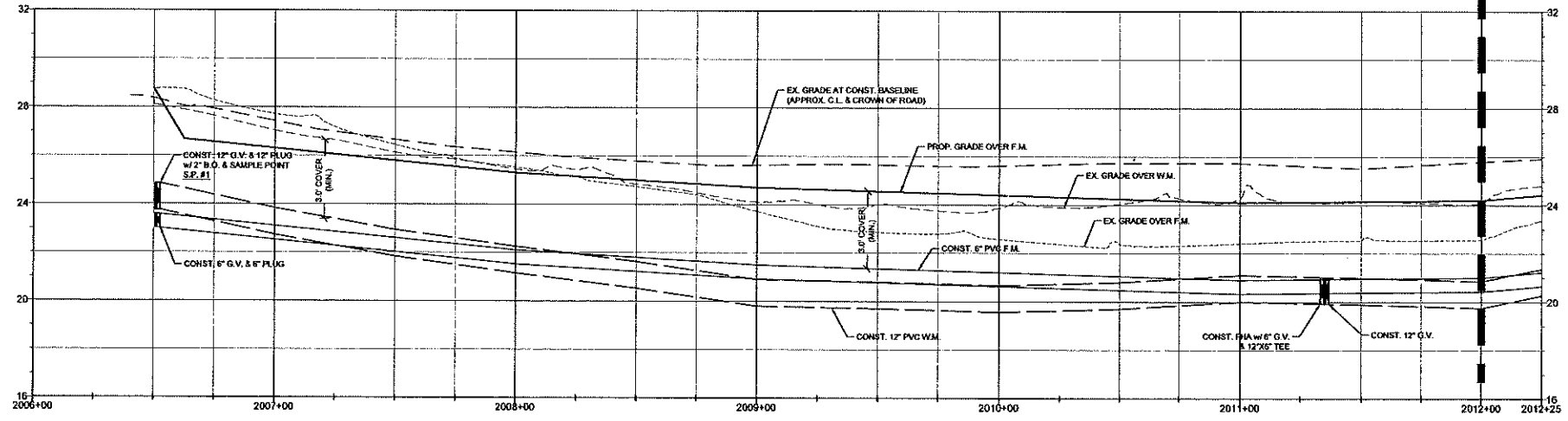
STA. 201+5 WATERMAIN TIE IN



**DATUM**  
 THE DATUM AND DESIGN GRADES SHOWN WITHIN THESE PLANS REFER TO THE  
 NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 1988)  
 DATUM CONVERSION: NGVD '29 = NAVD '88 + (1.43)



**69th STREET PLAN**  
 STA. 2006+00 TO 2012+00  
 1"=30'



**69th STREET PROFILE**  
 STA. 2006+00 TO 2012+00  
 HORIZONTAL: 1"=30'  
 VERTICAL: 1"=3'

- 69TH STREET NOTES:**
1. THE APPLICANT REQUESTS THAT APPROVAL OF THESE PLANS AUTHORIZES CONSTRUCTION OF THE 69TH STREET SIDEWALK FROM STATION 2006+00 TO 2020+00 INCLUDING RELATED GRADING AND STORMWATER IMPROVEMENTS, AS WELL AS WATER MAIN AND SEWAGE FORCE MAIN IMPROVEMENTS ALONG 69TH STREET.
  2. THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO A CONDITION EQUAL TO OR BETTER THAN EXISTING.
  3. THE LOCATIONS OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL FIELD LOCATE ALL EXISTING UTILITIES IN THE VICINITY, WHETHER SHOWN ON THESE PLANS OR NOT.
  4. SIDEWALKS LOCATED WITHIN PUBLIC RIGHTS-OF-WAY SHALL BE A MINIMUM OF 6 INCH THICK FIBER-REINFORCED CONCRETE, NO METAL REINFORCED CONCRETE ALLOWED.
  5. SIDEWALKS HAVE BEEN DESIGNED TO HAVE A CROSS-SLOPE OF 1.6%, IN ACCORDANCE WITH ADA REQUIREMENTS THE MAXIMUM CROSS-SLOPE SHALL NOT EXCEED 2% AND THE MAXIMUM LONGITUDINAL SLOPE SHALL NOT EXCEED 5%, UNLESS RAMPS AND LANDINGS ARE UTILIZED IN ACCORDANCE WITH ADA REQUIREMENTS AND CONSTRUCTED PER FOOT STANDARDS.
  6. ALL NEWLY CONSTRUCTED WATER & SEWAGE FORCE MAINS SHALL HAVE A MINIMUM THREE (3) FEET OF COVER.
  7. ALL NEWLY CONSTRUCTED PIPES, VALVES, FITTINGS, AND OTHER APPURTENANCES SHALL BE PROPERLY RESTRAINED.
  8. SEE CONSTRUCTION NOTES (LDP PLAN SHEET 2) AND WATER & SEWER DETAILS (LDP PLAN SHEETS 38 & 39) FOR ADDITIONAL INFORMATION.
  9. IN ADDITION TO STRIPPING A MINIMUM OF SIX (6) INCHES OF THE EXISTING GROUND SURFACE PRIOR TO FILLING, THE CONTRACTOR SHALL REMOVE ALL MUCK AND ORGANIC MATERIAL BELOW THE SIDEWALK AND GRAVITY WALLS IN THE R/W.
  10. MATERIAL REMOVED FROM THE UTILITY CONSTRUCTION TRENCHES SHALL NOT BE REUSED AS BASE OR SUBGRADE IN THE DRIVEWAY OR ROADWAY RESTORATION AREAS.
  11. MAILBOXES DISTURBED OR RELOCATED AS A RESULT OF CONSTRUCTION ACTIVITIES SHALL BE REPOSITIONED BY THE CONTRACTOR IN ACCORDANCE WITH U.S. POSTAL SERVICE STANDARDS.

- WALL NOTES**
1. ALL RETAINING AND GRAVITY WALLS ARE REQUIRED IMPROVEMENTS THAT SHALL BE CONSTRUCTED BY THE DEVELOPER. THESE WALLS MUST BE PERMITTED BY THE BUILDING DEPARTMENT.
  2. THE DEVELOPER SHALL RETAIN A STRUCTURAL ENGINEER FOR THE DESIGN OF RETAINING WALLS AND GRAVITY WALLS WHERE REQUIRED, PRIOR TO BUILDING PERMIT APPLICATION FOR THE WALLS.
  3. ALL WALLS SHALL BE CONSTRUCTED SUCH THAT THERE ARE NO ENCROACHMENTS INTO THE CONSERVATION EASEMENT. THIS SHALL INCLUDE PLACING THE OUTERMOST WALL ELEMENTS SUCH AS LEVELING PADS AND FOUNDATIONS AT OR INSIDE THE PRIVATE LOT LINES AND RIGHT-OF-WAY LINES.
  4. PROPOSED ELEVATION CALLOUTS AT WALLS REFER TO THE FINISHED GRADE ADJACENT TO THE TOP OF THE WALL. THE TOP OF WALL ELEVATION SHALL BE AT OR ABOVE THIS ELEVATION, BUT NOT BELOW.
  5. SEE SHEET 37A FOR ADDITIONAL DETAILS AND SPECIFICATIONS.
  6. ALL GRAVITY WALLS WITHIN IRC R/W AND GRAVITY WALLS ADJACENT TO ROADWAYS (PUBLIC OR PRIVATE) SHALL BE PER FOOT INDEX 515-062 SCHEME 2.

**69th STREET OFFSITE IMPROVEMENTS**  
**PLAN & PROFILE: STA. 2006+00 TO 2012+00**

NO.	DATE	DESCRIPTION	DR/APP
7	11/29/21	REV. PER RC LDP/SW COMMENTS	JTH/SEM
6	11/10/21	REMOVE 69th ST. ARV PER RECORDS (SHT 05-5)	JTH/SEM
5	11/11/21	REV. PER 69th ST. F.M. CROSSING TO OPEN CUT	JTH/SEM
4	11/09/21	REV. PER SURVAD COMMENTS	JTH/SEM
3	9/16/21	REV. PER RC LDP/SW COMMENTS	JTH/SEM
2	9/04/21	REV. PER SURVAD COMMENTS	JTH/SEM

**M M MASTELLER & MOLER, INC.**  
 CONSULTING ENGINEERS  
 CERTIFICATE OF AUTHORIZATION NUMBER 4204  
 1655 27th STREET, SUITE 2, VERO BEACH, FLORIDA 32960  
 (772) 567-5300 / FAX (772) 794-1106

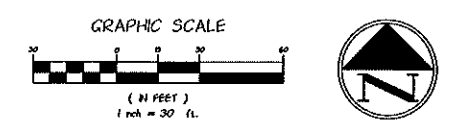
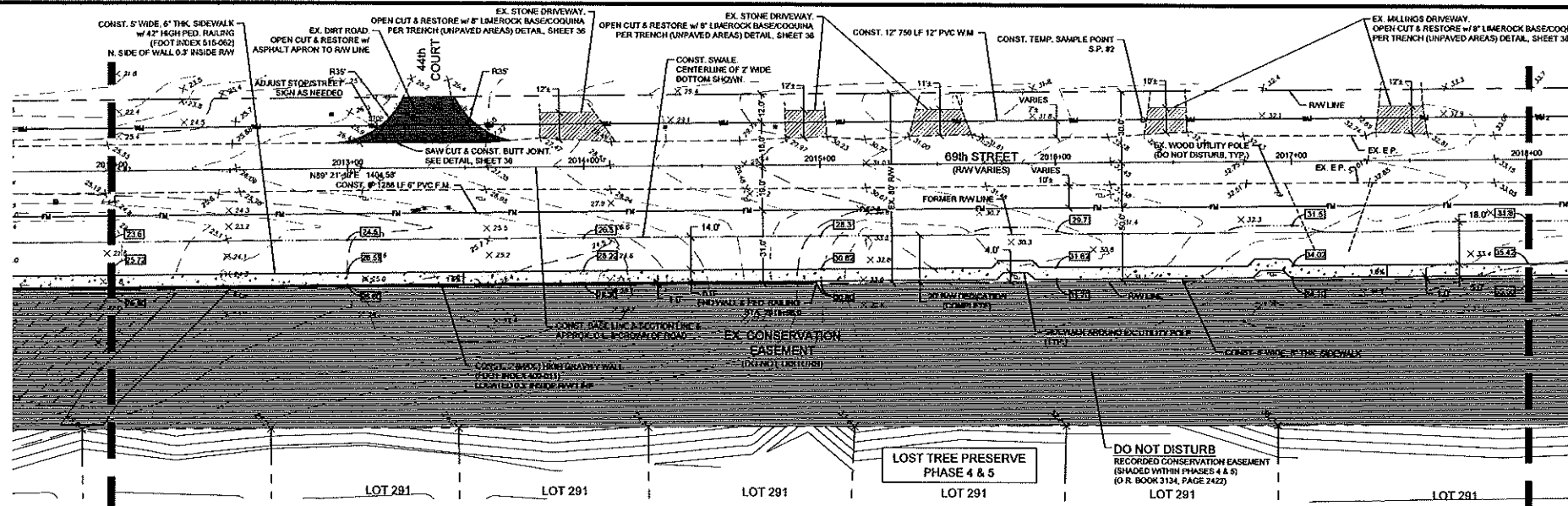
**LAND DEVELOPMENT PLANS**  
**LOST TREE PRESERVE P.D. - PHASES 4 & 5**  
**LOST TREE PRESERVE, LLC**

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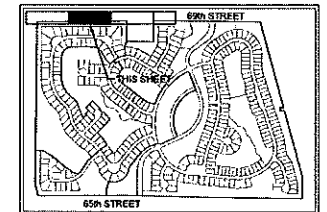
DESIGNED	JTH
CHECKED	SEM
DATE	12/01/20
SCALE	1"=30'
SHEET	05-3 OF 8
PROJECT NO.	1940

12/10/2021  
**STEPHEN E. MOLER, P.E. FL #33193**

T:\Projects\2021\1940 - Lost Tree Preserve 4&5\ENG\CD\1940 Offsite.dwg



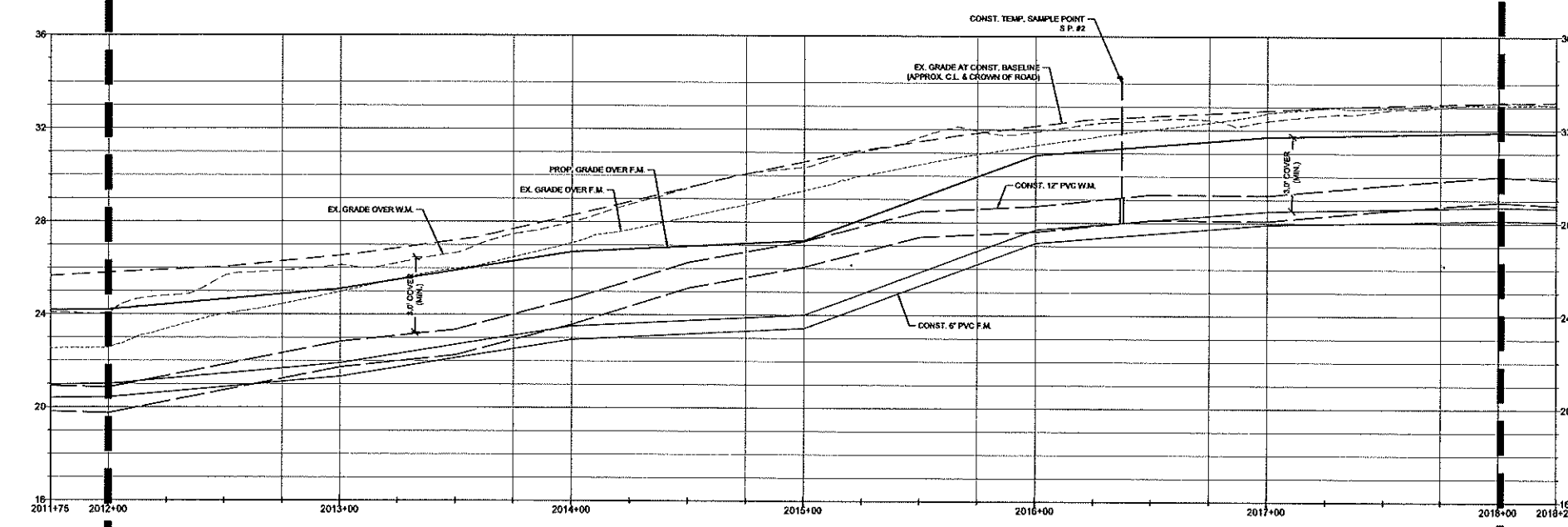
**DATUM**  
 THE DATUM AND DESIGN GRADES SHOWN WITHIN THESE PLANS REFER TO THE  
 NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 1988)  
 DATUM CONVERSION: NGVD '29 = NAVD '88 + (1.43)



**69th STREET PLAN**  
 STA. 2012+00 TO 2018+00  
 1"=30'

MATCHLINE - STA. 2012+00  
SEE SHEET OS-3

MATCHLINE - STA. 2018+00  
SEE SHEET OS-5



**69th STREET PROFILE**  
 STA. 2012+00 TO 2018+00  
 HORIZONTAL: 1"=30'  
 VERTICAL: 1"=3'

- 69th STREET NOTES:**
- THE APPLICANT REQUESTS THAT APPROVAL OF THESE PLANS AUTHORIZES CONSTRUCTION OF THE 69th STREET SIDEWALK FROM STATION 2006+00 TO 2020+00 INCLUDING RELATED GRADING AND STORMWATER IMPROVEMENTS, AS WELL AS WATER MAIN AND SEWAGE FORCE MAIN IMPROVEMENTS ALONG 69th STREET.
  - THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO A CONDITION EQUAL TO OR BETTER THAN EXISTING.
  - THE LOCATIONS OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL FIELD LOCATE ALL EXISTING UTILITIES IN THE VICINITY, WHETHER SHOWN ON THESE PLANS OR NOT.
  - SIDEWALKS LOCATED WITHIN PUBLIC RIGHTS-OF-WAY SHALL BE A MINIMUM OF 6 INCH THICK FIBER-REINFORCED CONCRETE. NO METAL REINFORCED CONCRETE ALLOWED.
  - SIDEWALKS HAVE BEEN DESIGNED TO HAVE A CROSS-SLOPE OF 1.6% IN ACCORDANCE WITH ADA REQUIREMENTS THE MAXIMUM CROSS-SLOPE SHALL NOT EXCEED 2% AND THE MAXIMUM LONGITUDINAL SLOPE SHALL NOT EXCEED 5% UNLESS RAMPS AND LANDINGS ARE UTILIZED IN ACCORDANCE WITH ADA REQUIREMENTS AND CONSTRUCTED PER FDOT STANDARDS.
  - ALL NEWLY CONSTRUCTED WATER & SEWAGE FORCE MAINS SHALL HAVE A MINIMUM THREE (3) FEET OF COVER.
  - ALL NEWLY CONSTRUCTED PIPES, VALVES, FITTINGS, AND OTHER APPURTENANCES SHALL BE PROPERLY RESTRAINED.
  - SEE CONSTRUCTION NOTES (LDP PLAN SHEET 2) AND WATER & SEWER DETAILS (LDP PLAN SHEETS 38 & 39) FOR ADDITIONAL INFORMATION.
  - IN ADDITION TO STRIPPING A MINIMUM OF SIX (6) INCHES OF THE EXISTING GROUND SURFACE PRIOR TO FILLING, THE CONTRACTOR SHALL REMOVE ALL MUCK AND ORGANIC MATERIAL BELOW THE SIDEWALK AND GRAVITY WALLS IN THE ROW.
  - MATERIAL REMOVED FROM THE UTILITY CONSTRUCTION TRENCHES SHALL NOT BE REUSED AS BASE OR SUBGRADE IN THE DRIVEWAY OR ROADWAY RESTORATION AREAS.
  - MAILBOXES DISTURBED OR RELOCATED AS A RESULT OF CONSTRUCTION ACTIVITIES SHALL BE REPOSITIONED BY THE CONTRACTOR IN ACCORDANCE WITH U.S. POSTAL SERVICE STANDARDS.
- WALL NOTES**
- ALL RETAINING AND GRAVITY WALLS ARE REQUIRED IMPROVEMENTS THAT SHALL BE CONSTRUCTED BY THE DEVELOPER. THESE WALLS MUST BE PERMITTED BY THE BUILDING DEPARTMENT.
  - THE DEVELOPER SHALL RETAIN A STRUCTURAL ENGINEER FOR THE DESIGN OF RETAINING WALLS AND GRAVITY WALLS WHERE REQUIRED, PRIOR TO BUILDING PERMIT APPLICATION FOR THE WALLS.
  - ALL WALLS SHALL BE CONSTRUCTED SUCH THAT THERE ARE NO ENCROACHMENTS INTO THE CONSERVATION EASEMENT. THIS SHALL INCLUDE PLACING THE OUTERMOST WALL ELEMENTS SUCH AS LEVELING PADS AND FOUNDATIONS AT OR INSIDE THE PRIVATE LOT LINES AND RIGHT-OF-WAY LINES.
  - PROPOSED ELEVATION CALLOUTS AT WALLS REFER TO THE FINISHED GRADE ADJACENT TO THE TOP OF THE WALL. THE TOP-OF-WALL ELEVATION SHALL BE AT OR ABOVE THIS ELEVATION, BUT NOT BELOW.
  - SEE SHEET 37A FOR ADDITIONAL DETAILS AND SPECIFICATIONS.
  - ALL GRAVITY WALLS WITHIN IRC ROW AND GRAVITY WALLS ADJACENT TO ROADWAYS (PUBLIC OR PRIVATE) SHALL BE PER FDOT INDEX 515-062 SCHEME 2.

**69TH STREET OFFSITE IMPROVEMENTS**  
**PLAN & PROFILE: STA. 2012+00 TO 2018+00**

NO.	DATE	DESCRIPTION	DR/APP
7	11/29/21	REV. PER RC LDP/SW COMMENTS	JTH/SEM
6	11/18/21	REMOVE 69th ST. REV PER RC/DUS (SHT OS-5)	JTH/SEM
5	11/11/21	REV. PER 69th ST. F.I. CROSSING TO OPEN CUT	JTH/SEM
4	11/09/21	REV. PER SURV/D COMMENTS	JTH/SEM
3	9/16/21	REV. PER RC LDP/SW COMMENTS	JTH/SEM
2	9/04/21	REV. PER SURV/D COMMENTS	JTH/SEM

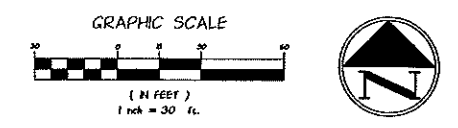
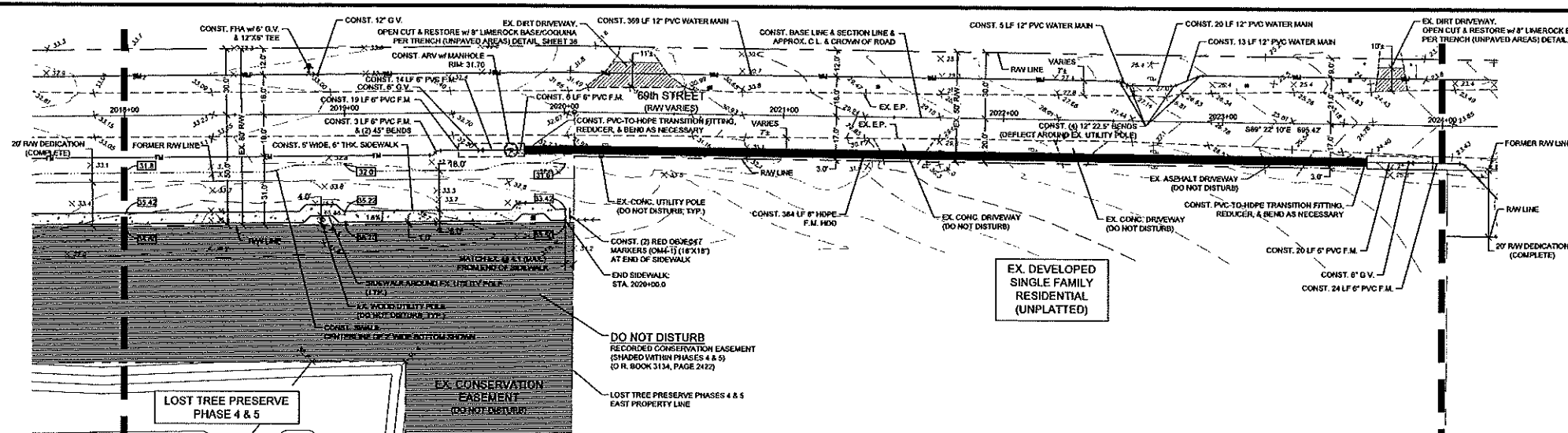
**M MASTELLER & MOLER, INC.**  
**CONSULTING ENGINEERS**  
 CERTIFICATE OF AUTHORIZATION NUMBER 4204  
 1655 27th STREET, SUITE 2, VERO BEACH, FLORIDA 32960  
 (772) 567-5300 / FAX (772) 794-1106

**LAND DEVELOPMENT PLANS**  
**LOST TREE PRESERVE P.D. - PHASES 4 & 5**  
**LOST TREE PRESERVE, LLC**

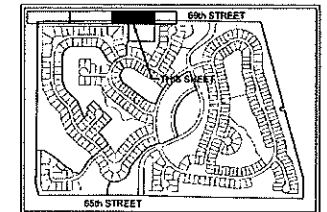
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DATE	12/10/2021
SCALE	1"=30'
SHEET	OS-4 OF 8
PROJECT NO.	1940
DRAWN	JTH
DESIGNED	SEM
CHECKED	SEM
DATE	12/01/20
SCALE	1"=30'
SHEET	OS-4 OF 8
PROJECT NO.	1940

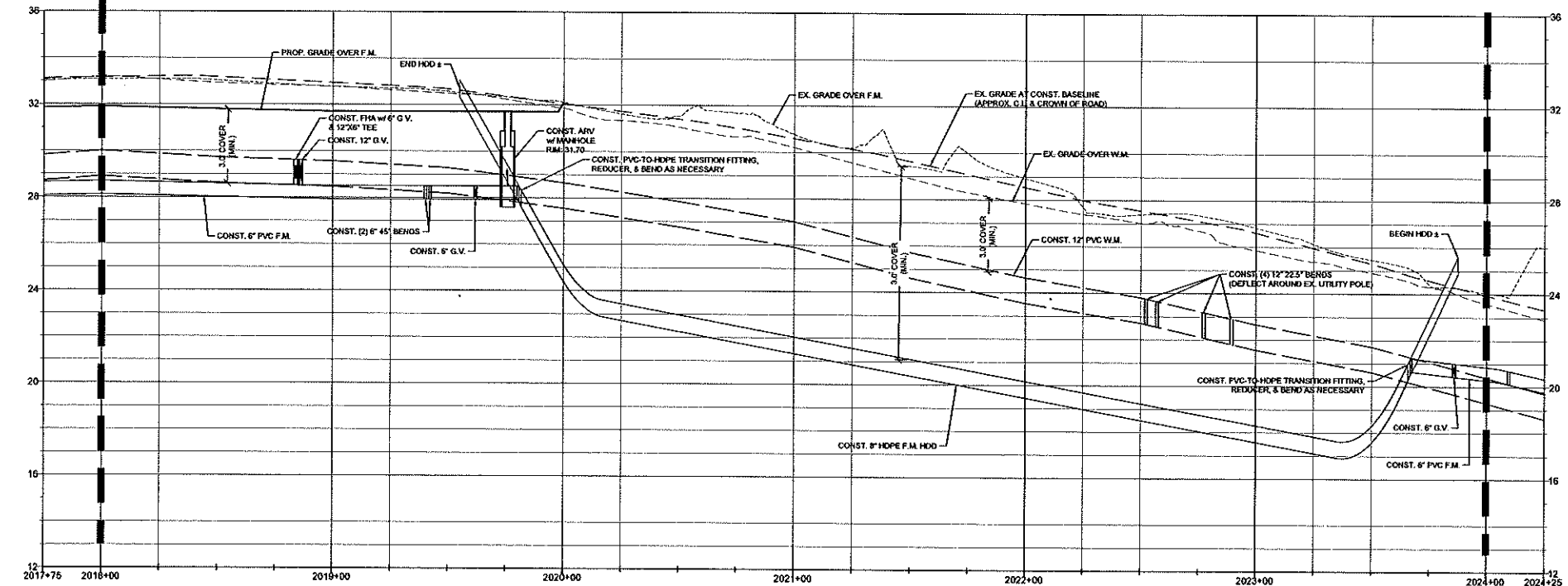
STEPHEN E. MOLER, P.E. FL #33193



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 DATUM CONVERSION: NVD '29 = NAVD '88 + (1.43)



**69th STREET PLAN**  
 STA. 2018+00 TO 2024+00  
 1"=30'



**69th STREET PROFILE**  
 STA. 2018+00 TO 2024+00  
 HORIZONTAL: 1"=30'  
 VERTICAL: 1"=3'

- 69TH STREET NOTES:**
- THE APPLICANT REQUESTS THAT APPROVAL OF THESE PLANS AUTHORIZES CONSTRUCTION OF THE 69TH STREET SIDEWALK FROM STATION 2006+00 TO 2020+00, INCLUDING RELATED GRADING AND STORMWATER IMPROVEMENTS, AS WELL AS WATER MAIN AND SEWAGE FORCE MAIN IMPROVEMENTS ALONG 69TH STREET.
  - THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO A CONDITION EQUAL TO OR BETTER THAN EXISTING.
  - THE LOCATIONS OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL FIELD LOCATE ALL EXISTING UTILITIES IN THE VICINITY, WHETHER SHOWN ON THESE PLANS OR NOT.
  - SIDEWALKS LOCATED WITHIN PUBLIC RIGHTS-OF-WAY SHALL BE A MINIMUM OF 8 INCH THICK FIBER-REINFORCED CONCRETE. NO METAL REINFORCED CONCRETE ALLOWED.
  - SIDEWALKS HAVE BEEN DESIGNED TO HAVE A CROSS-SLOPE OF 1.6%, IN ACCORDANCE WITH ADA REQUIREMENTS THE MAXIMUM CROSS-SLOPE SHALL NOT EXCEED 2% AND THE MAXIMUM LONGITUDINAL SLOPE SHALL NOT EXCEED 5%, UNLESS RAMPS AND LANDINGS ARE UTILIZED IN ACCORDANCE WITH ADA REQUIREMENTS AND CONSTRUCTED PER FDOT STANDARDS.
  - ALL NEWLY CONSTRUCTED WATER & SEWAGE FORCE MAINS SHALL HAVE A MINIMUM THREE (3) FEET OF COVER.
  - ALL NEWLY CONSTRUCTED PIPES, VALVES, FITTINGS, AND OTHER APPURTENANCES SHALL BE PROPERLY RESTRAINED.
  - SEE CONSTRUCTION NOTES (LDP PLAN SHEET 2) AND WATER & SEWER DETAILS (LDP PLAN SHEETS 38 & 39) FOR ADDITIONAL INFORMATION.
  - IN ADDITION TO STRIPPING A MINIMUM OF SIX (6) INCHES OF THE EXISTING GROUND SURFACE PRIOR TO FILLING, THE CONTRACTOR SHALL REMOVE ALL MUCK AND ORGANIC MATERIAL BELOW THE SIDEWALK AND GRAVITY WALLS IN THE ROW.
  - MATERIAL REMOVED FROM THE UTILITY CONSTRUCTION TRENCHES SHALL NOT BE REUSED AS BASE OR SUBGRADE IN THE DRIVEWAY OR ROADWAY RESTORATION AREAS.
  - MAILBOXES DISTURBED OR RELOCATED AS A RESULT OF CONSTRUCTION ACTIVITIES SHALL BE REPOSITIONED BY THE CONTRACTOR IN ACCORDANCE WITH U.S. POSTAL SERVICE STANDARDS.

- WALL NOTES**
- ALL RETAINING AND GRAVITY WALLS ARE REQUIRED IMPROVEMENTS THAT SHALL BE CONSTRUCTED BY THE DEVELOPER. THESE WALLS MUST BE PERMITTED BY THE BUILDING DEPARTMENT.
  - THE DEVELOPER SHALL RETAIN A STRUCTURAL ENGINEER FOR THE DESIGN OF RETAINING WALLS AND GRAVITY WALLS WHERE REQUIRED, PRIOR TO BUILDING PERMIT APPLICATION FOR THE WALLS.
  - ALL WALLS SHALL BE CONSTRUCTED SUCH THAT THERE ARE NO ENCROACHMENTS INTO THE CONSERVATION EASEMENT, THIS SHALL INCLUDE PLACING THE OUTERMOST WALL ELEMENTS SUCH AS LEVELING PADS AND FOUNDATIONS AT OR INSIDE THE PRIVATE LOT LINES AND RIGHT-OF-WAY LINES.
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  - SEE SHEET 37A FOR ADDITIONAL DETAILS AND SPECIFICATIONS.
  - ALL GRAVITY WALLS WITHIN IRC ROW AND GRAVITY WALLS ADJACENT TO ROADWAYS (PUBLIC OR PRIVATE) SHALL BE PER FDOT INDEX 515-062 SCHEME 2.

**69TH STREET OFFSITE IMPROVEMENTS**  
**PLAN & PROFILE: STA. 2018+00 TO 2024+00**

NO.	DATE	DESCRIPTION	DR/APP
7	11/29/21	REV. PER RC LDP/SW COMMENTS	JTH/SEM
6	11/18/21	REMOVE 69th ST. ARV PER RCODS (SHT OS-5)	JTH/SEM
5	11/11/21	REV. PER 69th ST. F.M. CROSSING TO OPEN CUT	JTH/SEM
4	11/04/21	REV. PER SURVWD COMMENTS	JTH/SEM
3	9/16/21	REV. PER RC LDP/SW COMMENTS	JTH/SEM
2	9/04/21	REV. PER SURVWD COMMENTS	JTH/SEM

**M M MASTELLER & MOLER, INC.**  
**CONSULTING ENGINEERS**  
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 1655 27th STREET, SUITE 2, VERO BEACH, FLORIDA 32960  
 (772) 567-5300 / FAX (772) 794-1106

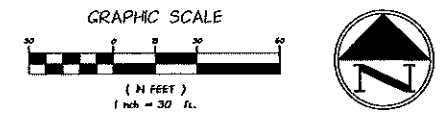
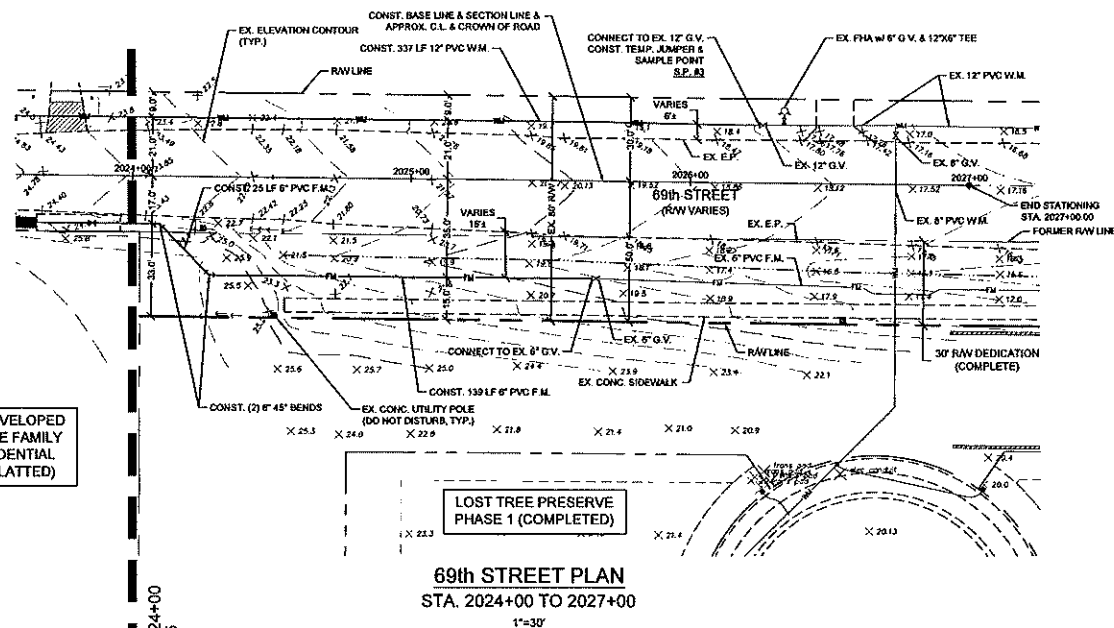
**LAND DEVELOPMENT PLANS**  
**LOST TREE PRESERVE P.D. - PHASES 4 & 5**  
**LOST TREE PRESERVE, LLC**

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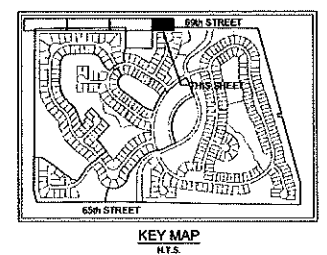
DATE	12/10/2021
SCALE	1"=30'
SHEET	OS-5 of 8
PROJECT NO.	1940
DATE	12/10/2021
DESIGNED	JTH
DRAWN	SEM
CHECKED	SEM
DATE	12/01/20
SCALE	1"=30'
SHEET	OS-5 of 8
PROJECT NO.	1940

STEPHEN E. MOLER, P.E. FL #33193

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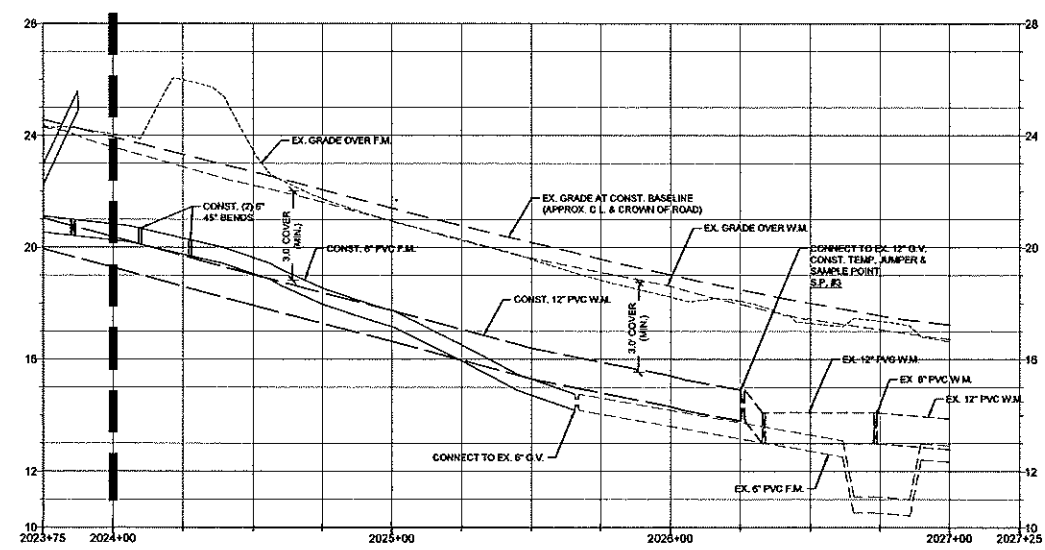
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DATUM CONVERSION: NGVD '29 = NAVD '88 + (1.43)



EX. DEVELOPED SINGLE FAMILY RESIDENTIAL (UNPLATTED)

**69th STREET PLAN**  
STA. 2024+00 TO 2027+00  
1"=30'

MATCHLINE - STA. 2024+00  
SEE SHEET OS-5



**69th STREET PROFILE**  
STA. 2024+00 TO 2027+00  
HORIZONTAL: 1"=30'  
VERTICAL: 1"=3'

- 69TH STREET NOTES:**
- THE APPLICANT REQUESTS THAT APPROVAL OF THESE PLANS AUTHORIZES CONSTRUCTION OF THE 69TH STREET SIDEWALK FROM STATION 2005+60 TO 2020+00 INCLUDING RELATED GRADING AND STORMWATER IMPROVEMENTS, AS WELL AS WATER MAIN AND SEWAGE FORCE MAIN IMPROVEMENTS ALONG 69TH STREET.
  - THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO A CONDITION EQUAL TO OR BETTER THAN EXISTING.
  - THE LOCATIONS OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL FIELD LOCATE ALL EXISTING UTILITIES IN THE VICINITY, WHETHER SHOWN ON THESE PLANS OR NOT.
  - SIDEWALKS LOCATED WITHIN PUBLIC RIGHTS-OF-WAY SHALL BE A MINIMUM OF 6 INCH THICK FIBER-REINFORCED CONCRETE. NO METAL REINFORCED CONCRETE ALLOWED.
  - SIDEWALKS HAVE BEEN DESIGNED TO HAVE A CROSS-SLOPE OF 1.8%. IN ACCORDANCE WITH ADA REQUIREMENTS THE MAXIMUM CROSS-SLOPE SHALL NOT EXCEED 2% AND THE MAXIMUM LONGITUDINAL SLOPE SHALL NOT EXCEED 5%, UNLESS RAMPS AND LANDINGS ARE UTILIZED IN ACCORDANCE WITH ADA REQUIREMENTS AND CONSTRUCTED PER FDOT STANDARDS.
  - ALL NEWLY CONSTRUCTED WATER & SEWAGE FORCE MAINS SHALL HAVE A MINIMUM THREE (3) FEET OF COVER.
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  - IN ADDITION TO STRIPPING A MINIMUM OF SIX (6) INCHES OF THE EXISTING GROUND SURFACE PRIOR TO FILLING, THE CONTRACTOR SHALL REMOVE ALL MUCK AND ORGANIC MATERIAL BELOW THE SIDEWALK AND GRAVITY WALLS IN THE ROW.
  - MATERIAL REMOVED FROM THE UTILITY CONSTRUCTION TRENCHES SHALL NOT BE REUSED AS BASE OR SUBGRADE IN THE DRIVEWAY OR ROADWAY RESTORATION AREAS.
  - MAILBOXES DISTURBED OR RELOCATED AS A RESULT OF CONSTRUCTION ACTIVITIES SHALL BE REPOSITIONED BY THE CONTRACTOR IN ACCORDANCE WITH U.S. POSTAL SERVICE STANDARDS.

**69TH STREET OFFSITE IMPROVEMENTS**  
**PLAN & PROFILE: STA. 2024+00 TO 2027+00**

NO.	DATE	DESCRIPTION	DR/APP
7	11/24/21	REV. PER RC LDP/SW COMMENTS	JTH/SEH
6	11/18/21	REMOVE 69th ST. ARV PER RODUS (SHT OS-5)	JTH/SEH
5	11/11/21	REV. PER 69th ST. F.I.L. CROSSING TO OPEN CUT	JTH/SEH
4	11/09/21	REV. PER SURVWD COMMENTS	JTH/SEH
3	9/16/21	REV. PER RC LDP/SW COMMENTS	JTH/SEH
2	9/04/21	REV. PER SURVWD COMMENTS	JTH/SEH

REVISIONS

**M M MASTELLER & MOLER, INC.**  
**CONSULTING ENGINEERS**  
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**LAND DEVELOPMENT PLANS**  
**LOST TREE PRESERVE P.D. - PHASES 4 & 5**  
**LOST TREE PRESERVE, LLC**  
FLORIDA

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DATE	12/10/2021
SCALE	1"=30'
SHEET	OS-6 of 8
PROJECT NO.	1940

STEPHEN E. MOLER, P.E. FL #33193

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