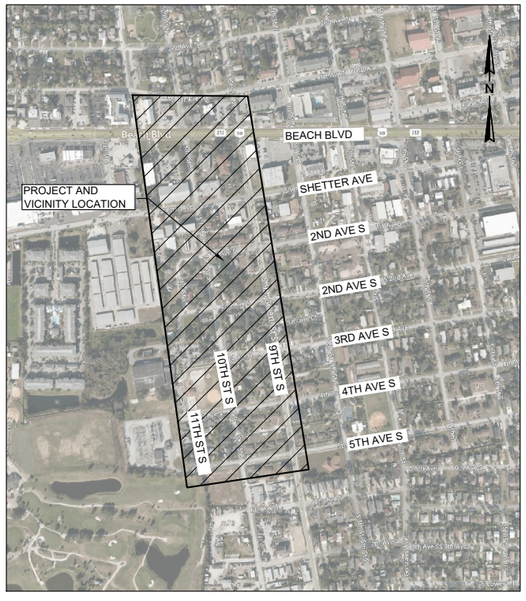
CONSTRUCTION DRAWINGS FOR:

10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II

FOR THE
CITY OF JACKSONVILLE BEACH

CITY BID No. 2526-01



PROJECT LOCATION
AND VICINITY

PREPARED BY:

FOUR WATERS ENGINEERING
324 6th AVE N. JACKSONVILLE BEACH, FLORIDA 32250
904-414-2400 C.O.A.# 31101 WWW.4WENG.COM

PROJECT #: 19-1023

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DATE: SEPTEMBER 2025

ISSUE: BID

MICHAEL R. KLINK LICENSE No. 71840 STATE OF FLORIDA PROFESSIONAL ENGINEER

This item has been digitally signed and sealed by MICHAEL R KLINK, PE, per date noted. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

BRIAN HAMIL LOCATION R:\19-1023 COJB 10TH ST\VX\DS\COVER AND DETAILS.DWG

CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II

UTILITY SEPARATION NOTES

1. UTILITY SEPARATION FROM WATER MAINS SHALL BE IN ACCORDANCE WITH 62-555.314, FAC. ALL DISTANCES NOTED ARE FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE.

2. HORIZONTAL SEPARATION BETWEEN WATER MAIN AND STORM SEWER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF 62-610, FAC SHALL BE A MINIMUM OF THREE FEET; BETWEEN WATER MAIN AND ANY VACUUM-TYPE SANITARY SEWER SHALL BE TEN FEET (PREFERRED) BUT A MINIMUM OF THREE FEET; BETWEEN WATER MAIN AND GRAVITY OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCEMAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF 62-610, FAC SHALL BE TEN FEET (PREFERRED) BUT A MINIMUM OF SIX FEET. THE MINIMUM OF THE HORIZONTAL SEPARATION DISTANCE BETWEEN WATER MAINS AND GRAVITY-TYPE SANITARY SEWERS SHALL BE REDUCED TO THREE FEET WHERE THE BOTTOM OF THE WATER MAIN IS AT LEAST SIX INCHES ABOVE THE TOP OF THE SEWER. HORIZONTAL SEPARATION BETWEEN WATER MAIN AND ALL PARTS OF ANY "ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM" SHALL BE A MINIMUM OF TEN FEET.

3. VERTICAL SEPARATION BETWEEN WATER MAIN AND GRAVITY OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS 12 INCHES (PREFERRED) BUT A MINIMUM OF SIX INCHES ABOVE OR AT LEAST 12 INCHES BELOW THE OTHER PIPELINE. VERTICAL SEPARATION BETWEEN WATER MAIN AND 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 AT LEAST 12 INCHES ABOVE OR BELOW THE OTHER PIPELINE. PREFERENCE IS FOR THE WATER MAIN TO BE ABOVE THE OTHER PIPELINE.

4. FOR UTILITY CROSSINGS WITH WATER MAINS, ONE FULL LENGTH (20 FEET) OF WATER MAIN QUALITY PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THAT THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE. WATER QUALITY PIPE STANDARD SHALL BE PVC DR18 FOR WATER MAIN. THE CONTRACTOR SHALL VERIFY, RECORD, AND REPORT THE VERTICAL SEPARATION FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE AT THE CROSSING.

5. NO WATER MAIN SHALL PASS THROUGH OR COME IN CONTACT WITH ANY PART OF A SANITARY SEWER MANHOLE, A STORM SEWER MANHOLE, OR A STORM SEWER INLET STRUCTURE.

6. NEW OR RELOCATED FIRE HYDRANTS WITH UNDERGROUND DRAINS SHALL BE LOCATED SO THAT THE DRAINS ARE AT LEAST THREE FEET FROM ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF 62-610, FAC; AT LEAST THREE FEET, AND PREFERABLY TEN FEET, FROM ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER; AT LEAST SIX FEET, AND PREFERABLY TEN FEET, FROM ANY EXISTING OR PROPOSED GRAVITY- OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF 62-610, FAC; AND AT LEAST TEN FEET FROM ANY EXISTING OR PROPOSED "ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM" AS DEFINED IN SECTION 381.0065(2), FS, AND RULE 64E-6.002, FAC

ABBREVIATIONS

A.G.	ALLEY GRATE
℄	BASE LINE
B.M.	BENCH MARK
C.B.	CATCH BASIN
C.I.	CAST IRON
℄	CENTER LINE
CLF	CHAIN LINK FENCE
CONC.	CONCRETE
CONST.	CONSTRUCTION
C.M.P.	CORRUGATED METAL PIPE
C.M.P.A.	CORRUGATED METAL PIPE ARCHED
CULV.	CULVERT
C&G	CURB & GUTTER
C	CUT
CTVB	CABLE TV BOX
D.B.I.	DITCH BOTTOM INVERT
D.W.	DRIVEWAY
D.I.	DUCTILE IRON
EC	EDGE OF CONCRETE
E.O.P.	EDGE OF PAVEMENT
ELEV.	ELEVATION
EXP. JT.	EXPANSION JOINT
F	FILL
F.H.	FIRE HYDRANT
℉	FLOW LINE
GALV.	GALVANIZED
G	GAS
GIS-GAS	INDICATES GAS MAIN INFORMATION PROVIDED BY GIS INFORMATION FROM THE CITY OF JACKSONVILLE BEACH
GIS-FM	INDICATES FORCE MAIN INFORMATION PROVIDED BY GIS INFORMATION FROM THE CITY OF JACKSONVILLE BEACH
GIS-FOC	INDICATES FIBER OPTIC CABLE INFORMATION PROVIDED BY GIS INFORMATION FROM THE CITY OF JACKSONVILLE BEACH
GIS-SAN	INDICATES GRAVITY SEWER MAIN INFORMATION PROVIDED BY GIS INFORMATION FROM THE CITY OF JACKSONVILLE BEACH
GIS-STM	INDICATES STORM WATER MAIN INFORMATION PROVIDED BY GIS INFORMATION FROM THE CITY OF JACKSONVILLE BEACH
GIS-WAT	INDICATES WATER MAIN INFORMATION PROVIDED BY GIS INFORMATION FROM THE CITY OF JACKSONVILLE BEACH
G.V.	GAS VALVE
H.W.	HEAD WALL
H.C.	HIGH CURB
INT.	INTERSECTION
INV.	INVERT
I.P.	IRON PIPE
LT.	LEFT
M.H.	MANHOLE
N.T.S.	NOT TO SCALE
O.H.L.	OVERHEAD LINES
P.R.M.	PERMANENT REFERENCE MONUMENT
P.V.C.	POLYVINYL CHLORIDE
r	RADIUS
R	RATE
R.C.P.	REINFORCED CONCRETE PIPE
RT	RIGHT
R/W	RIGHT OF WAY
R.D.	ROOF DRAIN
S/D	SIDE WALK
S.B.T.	SOUTHERN BELL TELEPHONE
STA	STATION
TJB	TELEPHONE JUNCTION BOX
TOB	TOP OF BANK
TOS	TOE OF SLOPE
U.G.E.	UNDERGROUND ELECTRIC
U.G.T.	UNDERGROUND TELEPHONE
U.S.C. & G.S.	UNITED STATES COASTAL & GEODETIC SURVEY DATUM
V.C.	VITRIFIED CLAY
WM	WATER METER
WPP	WOOD POWER POLE
W.V.	WATER VALVE

GENERAL NOTES

1. ALL ELEVATIONS BASED ON U.S.C. & G.S. DATUM AND SHOWN IN FEET.

2. ELEVATIONS:

   ALL ELEVATIONS FOR THE SURVEYED AREAS BASED ON THE NORTH AMERICAN VERTICAL DATUM (N.A.V.D.) OF 1988 PER DURDEN SURVEYING AND MAPPING, INC. 1825-B 3RD STREET NORTH, JACKSONVILLE BEACH, FL 32250 PHONE (904) 853-6822 FAX (904) 853-6825

3. COORDINATE SYSTEMS:

   THE HORIZONTAL COORDINATES FOR THE THE SURVEYED AREAS ARE BASED ON FLORIDA STATE PLANE COORDINATE SYSTEM (SPC), EAST ZONE, U.S. FEET, NORTH AMERICAN DATUM (NAD) 1983, ALL ELEVATIONS ARE BASED ON THE NORTH AMERICAN DATUM OF 1988 (NAVD88) AND ARE EXPRESSED IN FEET.

4. IN ACCORDANCE WITH GENERAL CONDITIONS, IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND AVOID ALL UTILITIES, OTHER STRUCTURES AND OBSTRUCTIONS BOTH ABOVE AND BELOW THE GROUND SURFACE. ALL DAMAGE RESULTING FROM THE CONTRACTOR'S FAILURE TO COMPLY WITH THIS REQUIREMENT SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.

5. THE CONTRACTOR SHALL MAINTAIN UNINTERRUPTED SERVICE AT ALL SERVICE CONNECTIONS. THE MANNER IN WHICH THIS IS ACCOMPLISHED SHALL BE LEFT TO THE DISCRETION OF THE CONTRACTOR, SUBJECT TO THE REQUIREMENTS OF THE CONTRACT SPECIFICATIONS.

6. STATIONING SHOWN ON DRAWINGS REFERS TO CENTERLINE OF ROAD OR RIGHT-OF-WAY LINE.

7. ALL PIPE LENGTHS SHOWN ON PLAN AND PROFILES ARE FROM CENTER TO CENTER OF INLETS OR MANHOLES OR ALONG FORCEMAIN OR WATER MAINS.

8. THE CONTRACTOR SHALL PROVIDE NO LESS THAN A 6 INCH CLEARANCE BETWEEN ALL UTILITIES, OTHER THAN WATER MAINS UNLESS OTHERWISE DIRECTED. NO SPECIAL PAYMENT ALLOWED.

9. MINIMUM PIPE COVER SHALL BE 30 INCHES IN UNPAVED AREAS AND 36 INCHES IN PAVED AREAS. EXCEPT AS DIRECTED.

10. CONTRACTOR SHALL EMPLOY A LAND SURVEYOR, REGISTERED IN THE STATE OF FLORIDA, TO REFERENCE AND RESTORE PROPERTY CORNERS AND LANDMARKS WHICH MAY BE DISTURBED BY CONSTRUCTION.

11. EXISTING UTILITIES HAVE BEEN SHOWN FROM THE BEST AVAILABLE INFORMATION. CONTRACTOR SHALL NOTIFY THE PROPER UTILITY REPRESENTATIVE AT LEAST 48 HOURS PRIOR TO COMMENCING EXCAVATION NEAR UTILITY. CONTRACTOR IS RESPONSIBLE FOR LOCATION OF ALL SUCH UTILITIES IN THE PATH OF CONSTRUCTION. THE LOCATION SHALL BE MADE WELL IN ADVANCE OF CONSTRUCTION SO THAT CONFLICTS IN CONSTRUCTION MAY BE RESOLVED.

12. THE DEPARTMENT OF TRANSPORTATION IS TO BE NOTIFIED 48 HOURS IN ADVANCE AND RAILROAD COMPANY 7 DAYS IN ADVANCE OF CONSTRUCTION WITHIN THEIR RESPECTIVE RIGHT OF WAY.

13. UTILITY CONTACTS
    COMCAST CABLE COMMUNICATIONS – JAMES GRAHAM (904-380-6341)
    AT&T-PK PATEL (904-727-1658)
    BEACHES ENERGY SERVICES, LIGHTING – JIM TRIMBLE (904-247-6297)
    BEACHES ENERGY SERVICES, ELECTRIC – LAMAR WHITAKER (904-247-6206)
    CITY OF JACKSONVILLE BEACH PUBLIC WORKS (WPCP&PS) – ROBERT DELGADO (904-831-2092)
    – BARTOLO JIMENEZ (904-626-5950)
    CITY OF JACKSONVILLE BEACH PUBLIC WORKS (WATER/SEWER) – DAVID McDONALD (904-247-6211)
    CITY OF JACKSONVILLE BEACH PUBLIC WORKS (STREETS/STORMWATER) – DAVID McDONALD (904-247-6211)
    CITY OF JACKSONVILLE BEACH PUBLIC WORKS (CONSTRUCTION MANAGER)-DENNIS DUPRIES (904-509-0268)
    FERRELL GAS CO. – J.D. BAIN (352-622-8298)
    TECO / PEOPLES GAS – BEN MOBLEY (904)-545-8958 (PRIMARY CONTACT)
    JAMES FARRISS (904)-669-6519 (SECONDARY CONTACT)

14. THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS ARE BASED ON LIMITED INVESTIGATION TECHNOLOGIES AND SHOULD BE CONSIDERED APPROXIMATE ONLY.

15. CONTACT SUNSHINE STATE ONE-CALL OF FLORIDA, INC. AS REQUIRED BY CHAPTER 556 OF THE FLORIDA STATUTES.

16. CONTRACTOR TO LOCATE, PROTECT AND SUPPORT ALL WATER, SEWER, GAS AND ELECTRIC UTILITIES ENCOUNTERED DURING CONSTRUCTION.

17. IF THE CONTRACTOR ENCOUNTERS GROUNDWATER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR UTILIZING DEWATERING SYSTEM(S) TO REMOVE WATER FROM THE EXCAVATIONS. PRIOR TO BEGINNING ANY DEWATERING, THE CONTRACTOR SHALL SUBMIT A DEWATERING PLAN TO THE ENGINEER FOR REVIEW AND APPROVAL. THE CONTRACTOR SHALL COMPLY WITH SAMPLING REQUIREMENTS LISTED IN THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) DEWATERING REGULATIONS (62-621.300(2) F.A.C.) BEFORE ANY DEWATERING CAN BEGIN. CONTRACTOR SHALL SECURE THE FDEP GENERIC PERMIT FOR THE DISCHARGE OF GROUND WATER AND SJRWMD PERMIT, AS NECESSARY

18. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS DO NOT STAND BY THEMSELVES. ALSO TO BE INCLUDED ARE THE SPECIFICATIONS AND DETAILS.

19. CONTRACTOR TO FURNISH DETOUR AND CONSTRUCTION SIGNING AND LIGHTING AS REQUIRED IN FLORIDA DEPARTMENT OF TRANSPORTATION MANUAL ON TRAFFIC CONTROLS AND SAFE PRACTICE FOR STREET AND HIGHWAY CONSTRUCTION, AND OTHER SPECIAL ADVANCED DETOUR SIGNS AS NECESSARY.

20. ALL POTABLE WATER PIPE SHALL BE NSFPW RATED

21. CONTRACTOR SHALL MAINTAIN WATER AND SEWER SERVICE THROUGHOUT CONSTRUCTION. SERVICE CONNECTIONS SHALL ONLY BE TRANSFERRED TO THE NEW WATER MAIN AFTER FDEP ISSUES PARTIAL CLEARANCE. CONTRACTOR SHALL PROVIDE NECESSARY FITTINGS TO TEMPORARILY ISOLATE THE EXISTING WATER MAINS THROUGHOUT CONSTRUCTION.

22. IF SOLVENT CONTAMINATION IS FOUND IN THE PIPE TRENCH, WORK SHALL BE STOPPED AND THE PROPER AUTHORITIES NOTIFIED. WITH APPROVAL OF THE PERMITTING AGENCY, DUCTILE IRON PIPE, FITTINGS AND SOLVENT RESISTANT GASKET MATERIAL SHALL BE USED IN THE CONTAMINATED AREA. THE DUCTILE IRON PIPE SHALL EXTEND AT LEAST 100 FEET BEYOND ANY SOLVENT NOTED.

23. PIPE JOINT DEFLECTION, WHERE ALLOWED BY EXCEPTION, SHALL NOT EXCEED 80% OF THE MAXIMUM RECOMMENDED BY THE MANUFACTURER FOR THE SIZE AND TYPE OF JOINT.

24. ALL PVC FORCEMAIN AND WATER MAIN PIPING SHALL HAVE A NO. 10 SOLID COPPER TRACER WIRE TAPED ALONG THE TOP OF THE PIPE. THE TRACER WIRE SHALL BE TERMINATED AT A MAXIMUM OF 500' INTERVALS WITH A GROUND LEVEL TYPE BOX/LID FOR FORCEMAIN OR AT EACH VALVE BOX FOR WATER MAIN WITH APPROXIMATELY 3' OF COILED UP WIRE INSIDE EACH BOX ALONG THE ENTIRE LENGTH OF THE FORCEMAIN OR WATER MAIN.

25. CONTRACTOR SHALL CONTACT EACH PROPERTY OWNER ALONG THE ROUTE OF NEW PIPING AND LOCATE ANY EXISTING IRRIGATION/SPRINKLER SYSTEMS. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR/REPLACEMENT OF ANY DAMAGED IRRIGATION/SPRINKLER SYSTEMS ON PRIVATE PROPERTY OR CITY R.O.W'S DUE TO WORK BEING PERFORMED BY CONTRACTOR AND/OR SUB-CONTRACTORS.

26. THE CONTRACTOR SHALL SUBMIT A SHORING PLAN FOR EXCAVATIONS ADJACENT TO BUILDINGS, ADJACENT TO RIGHT-OF-WAY, OR ANY OTHER EXCAVATIONS DEEPER THAN 7 FEET. THE SHORING PLAN SHALL INCLUDE SHORING SYSTEM DESIGN CALCULATIONS AND DETAILS SIGNED AND SEALED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER.

27. ALL PROTECTED TREES SHALL BE PROTECTED FROM INJURY DURING ANY LAND CLEARING OR CONSTRUCTION. PRIOR TO ANY LAND CLEARING OR CONSTRUCTION OPERATIONS, TEMPORARY BARRIERS SHALL BE INSTALLED AROUND ALL TREES AND OTHER UNDERSCORE VEGETATION TO BE PRESERVED AND SHALL REMAIN UNTIL THE COMPLETION OF WORK. THE TEMPORARY BARRIER SHALL BE AT LEAST THREE FEET HIGH, SHALL BE PLACED AT LEAST SIX (6) FEET AWAY FROM THE BASE OF ANY TREE, SHALL INCLUDE AT LEAST FIFTY (50) PERCENT OF THE AREA UNDER THE DRIP LINE OF ANY PROTECTED TREE OR TREES. THE BARRIER SHALL CONSIST OF EITHER A WOOD FENCE WITH 2X4 POSTS PLACED A MAXIMUM OF EIGHT (8) FEET APART WITH A 2X4 MINIMUM TOP RAIL, OR A TEMPORARY WIRE MESH FENCE OR OTHER SIMILAR BARRIER WHICH WILL LIMIT ACCESS TO THE AREA, AND SHALL COMPLY WITH THE GUIDELINES IN THE TREE PROTECTION GUIDE FOR BUILDERS AND DEVELOPERS BY THE FLORIDA DIVISION OF FORESTRY, NO MATERIALS, TRAILERS, EQUIPMENT OR CHEMICALS SHALL BE STORED, OPERATED, DUMPED, BURIED OR BURNED WITHIN PROTECTED AREAS. NO ATTACHMENT WIRES (OTHER THAN PROTECTIVE GUY WIRES), SIGNS, OR PERMITS SHALL BE ATTACHED TO PROTECTED TREE.

28. TREE BARRICADE APPROVAL: OBTAIN CITY APPROVAL OF TREE BARRICADES BEFORE BEGINNING CLEARING OPERATIONS OR ANY CONSTRUCTION.

29. CONSTRUCTION ACTIVITIES DISTURBING AN AREA OF ONE (1) ACRE OR GREATER SHALL REQUIRE AN NPDES PERMIT. CONTRACTOR SHALL SUBMIT AN NOI TO FDEP PRIOR TO CONSTRUCTION

SUGGESTED ORDER OF CONSTRUCTION:

1. CONDUCT TEST HOLES AT CRITICAL STORMWATER CROSSINGS & OTHER AREAS OF UTILITY CROSSING CONCERNS.
2. REVIEW UPDATES NEEDED BY COJB & EOR DESIGN BASED ON UTILITY DEPTHS DETERMINED.
3. PROVIDE SUBMITTALS TO COJB & EOR FOR REVIEW AND APPROVAL.
4. INSTALL ALL SEDIMENT & EROSION CONTROL PER SWPPP AND NOI PERMIT.
5. INSTALL NEW 16" FORCEMAIN.
6. CONDUCT ALL TESTING AND PUT NEW 16" FORCEMAIN IN OPERATION.
7. DEMO/ABANDON EXISTING 16" FORCEMAIN WITH INTENT OF NEW 8" WATERMAIN IN EXISTING 16" FORCEMAIN CORRIDOR.
8. INSTALL NEW 8" WATERMAIN.
9. CONDUCT ALL TESTING AND PUT NEW 8" WATERMAIN IN OPERATION.
10. TRANSFER WATER SERVICES.
11. DEMO/ABANDON EXISTING WATERMAIN.
12. REPAIR/REHAB/REPLACE GRAVITY SEWER MAINS.
13. INSTALL STORM SEWER SYSTEM.
14. CONDUCT GRADING, SITE SHALL HAVE POSITIVE DRAINAGE.
15. INSTALL SIDEWALKS AND CURB & GUTTER.
16. PREPARE AND PAVE ROADWAYS.
17. COMPLETE RESTORATION WITH STABALIZED SURFACES.
18. REMOVE ALL SEDIMENT & EROSION CONTROL DEVICES.

MICHAEL R. KLINK LICENSE No. 71840 STATE OF FLORIDA PROFESSIONAL ENGINEER

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

GENERAL NOTES

CITY OF JACKSONVILLE BEACH, FL

DESIGN	MRK	JOB #	19-1023
DRAWN	BRH	ISSUE DATE	SEPTEMBER 2025
		ISSUE	BID

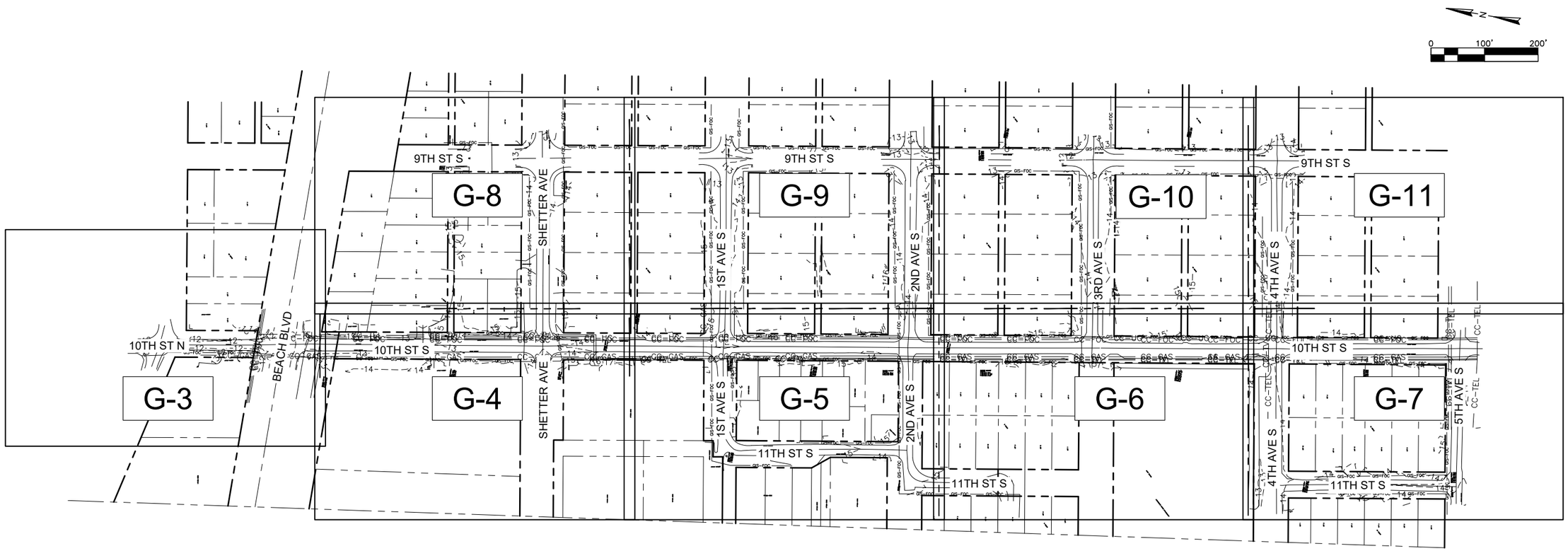
FOUR WATERS ENGINEERING
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904-414-2400 C.O.A.# 31101 WWW.4WENG.COM

DRAWING NUMBER
G-1

CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II

A MAP SHOWING A TOPOGRAPHIC SURVEY SURVEY OF

1st AVENUE NORTH, 1st AVENUE SOUTH, 2nd AVENUE, 3rd AVENUE, 4th AVENUE, 5tH AVENUE,
BEACH BLVD, SHETTER AVE, 9th STREET, 10th STREET, 11th STREET
CITY OF JACKSONVILLE BEACH, DUVAL COUNTY, FLORIDA



LINE LEGEND
LINE TYPES BELOW ARE AS DEPICTED ON CROWN CASTLE FIBER DRAWING: HORSESHOE 4 SEGEMENT 4 – S268436

CROWN CASTLE FIBER
9250 W FLAGLER ST.
MIAMI, FL 33174

CC–FOC	FIBER OPTIC
CC–GAS	GAS
CC–TEL	TELECOM
CC–TV	CABLE TV
CC–UG	EXISTING ELECTRIC
CC–UGE	ELECTRIC

NOTES:
1.) THIS IS NOT A BOUNDARY SURVEY.

2.) BEARINGS AND COORDINATES SHOWN HEREIN REFER TO THE FLORIDA STATE PLANE COORDINATE SYSTEM FOR THE FLORIDA EAST ZONE (901), NORTH AMERICAN DATUM OF 1983 (NAD 83) AND WERE DERIVED FROM GPS OBSERVATIONS UTILIZING OPUS RS–SOLUTIONS AS PROVIDED BY THE NATIONAL GEODETIC SURVEY (NGS) AND ARE EXPRESSED IN U.S. SURVEY FEET.

3.) ELEVATIONS SHOWN HEREIN REFER TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) AND ARE BASED ON NATIONAL GEODETIC SURVEY (NGS) BENCHMARK DESIGNATED Y 323, (PID BC0500), BEING BENCH MARK DISK SET IN TOP OF CONCRETE MONUMENT STAMPED "Y 323 1970" AND ARE EXPRESSED IN U.S. SURVEY FEET.

4.) RIGHT–OF–WAY LINES SHOWN HEREIN WERE DETERMINED BY PRODUCING A "BEST FIT" LINE UTILIZING FOUND MONUMENTATION ALONG THE PROPERTY LINES FRONTING EACH ROAD. NO ATTEMPT WAS MADE BY THIS SURVEYOR TO DETERMINE THE ACTUAL RIGHT–OF–WAY LINES

5.) INFORMATION SUCH AS PIPE SIZE, DIRECTION, INVERTS, MATERIAL, AND CONNECTIVITY OF THE SANITARY AND STORM SYSTEM IS AS BEST ASCERTAINED DUE TO AGE, CONDITION, AND ACCESSABILITY

6.) THIS IS A SURFACE SURVEY ONLY. UNDERGROUND IMPROVEMENTS SUCH AS FOOTERS AND UTILITIES, IF ANY, WERE NOT LOCATED BY THIS SURVEY, EXCEPT AS SHOWN.

7.) INFORMATION SHOWN HEREON REPRESENTS CONDITIONS AS THEY EXISTED ON THE SURVEY DATE SHOWN AND CAN ONLY BE CONSIDERED INDICATIVE OF CONDITIONS AT THAT TIME.

DRMP
ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS
LB# 2648
8001 Belfort Parkway, Suite 200, Jacksonville, Florida 32256

PREVIOUSLY:

GEOMATICS CORP.
SURVEYING–MAPPING–GPS
2804 N. FIFTH STREET, UNIT 101
ST. AUGUSTINE, FL 32084
PHONE (904) 824-3088 FAX (904) 824-5753
4809–1 ROSSELLE STREET
JACKSONVILLE, FL 32254
PHONE (904) 384-0071
LICENSED BUSINESSS
FLORIDA #6979 GEORGIA #928
SOUTH CAROLINA #3387 ALABAMA #794
NORTH CAROLINA COA #3782

PROJECT No: D–19–3050	
SURVEY DATE: Dec. 11, 2019	
CAD FILE: 19–3050–2.dwg	
CHECKED BY: T. Durden	
DRAWN BY: A. Wallen / RDF	
FIELD WORK: A. Land	
FB: 13–08, PGs. 21–54	

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

EXISTING CONDITIONS - KEY MAP

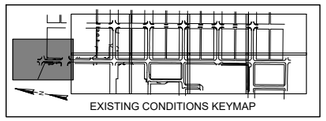
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DRAWN	BRH	ISSUE DATE	SEPTEMBER 2025
		ISSUE	BID

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DRAWING NUMBER
G-2 - KEY

CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II





SURVEY NOTES PER SHEET G-2:

2. BEARINGS AND COORDINATES SHOWN HEREIN REFER TO THE FLORIDA STATE PLANE COORDINATE SYSTEM FOR THE FLORIDA EAST ZONE (901), NORTH AMERICAN DATUM OF 1983 (NAD 83) AND WERE DERIVED FROM GPS OBSERVATIONS UTILIZING OPUS RS-SOLUTIONS AS PROVIDED BY THE NATIONAL GEODETIC SURVEY (NGS) AND ARE EXPRESSED IN U.S. SURVEY FEET.

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

EXISTING CONDITIONS

CITY OF JACKSONVILLE BEACH, FL

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DRAWING NUMBER
G-3

CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II

MATCHLINE: G-3

MATCHLINE: G-8

MATCHLINE: G-5

992 BEACH BLVD

1038 BEACH BLVD

10TH ST S

SHETTER AVE

53 10th STREET

57 10th STREET

R/W LINE

1100 SHETTER AVE

177310-0010

177309-0000

177311-0000

0 20' 40'

EXISTING CONDITIONS KEYMAP

SURVEY NOTES PER SHEET G-2:

2. BEARINGS AND COORDINATES SHOWN HEREIN REFER TO THE FLORIDA STATE PLANE COORDINATE SYSTEM FOR THE FLORIDA EAST ZONE (901), NORTH AMERICAN DATUM OF 1983 (NAD 83) AND WERE DERIVED FROM GPS OBSERVATIONS UTILIZING OPUS RS-SOLUTIONS AS PROVIDED BY THE NATIONAL GEODETIC SURVEY (NGS) AND ARE EXPRESSED IN U.S. SURVEY FEET.

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

EXISTING CONDITIONS

CITY OF JACKSONVILLE BEACH, FL

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JOB #	19-1023		
ISSUE DATE	SEPTEMBER 2025		
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DRAWING NUMBER
G-4

CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II

MATCHLINE: G-9

MATCHLINE: G-4

MATCHLINE: G-6

SURVEY NOTES PER SHEET G-2:

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EXISTING CONDITIONS KEYMAP

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

EXISTING CONDITIONS

CITY OF JACKSONVILLE BEACH, FL

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DRAWING NUMBER
G-5

CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II

MATCHLINE: G-10

MATCHLINE: G-5

MATCHLINE: G-7

10TH ST S

11TH ST S

3RD AVE S

EXISTING CONDITIONS KEYMAP

SURVEY NOTES PER SHEET G-2:

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

EXISTING CONDITIONS

CITY OF JACKSONVILLE BEACH, FL.

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JOB #	19-1023
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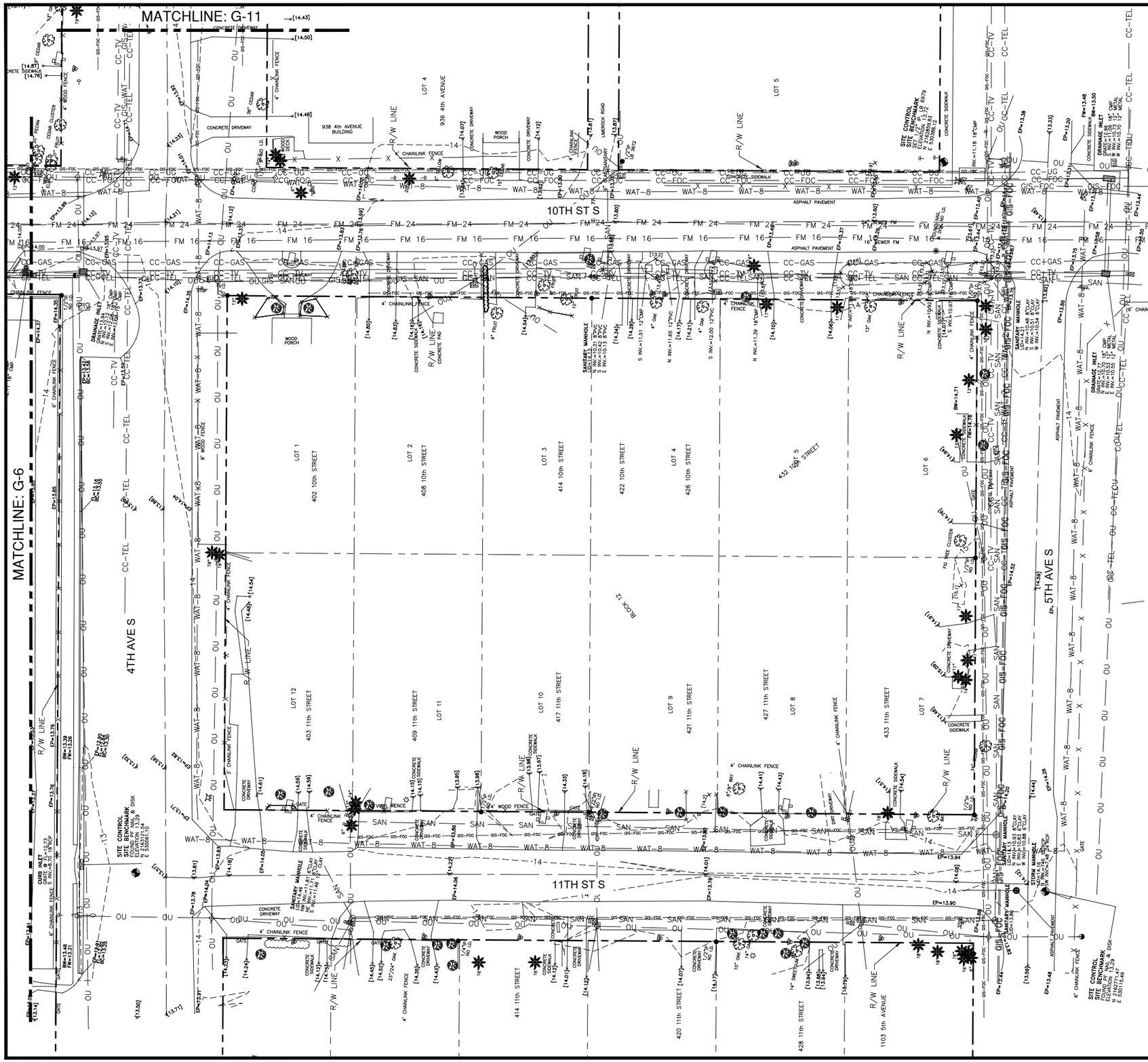
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G-6

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

EXISTING CONDITIONS

CITY OF JACKSONVILLE BEACH, FL

DESIGN	MRK
DRAWN	BRH
JOB #	19-1023
ISSUE DATE	SEPTEMBER 2025
ISSUE	BID

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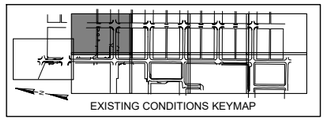
DRAWING NUMBER
G-7

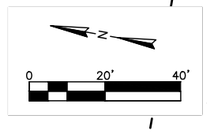
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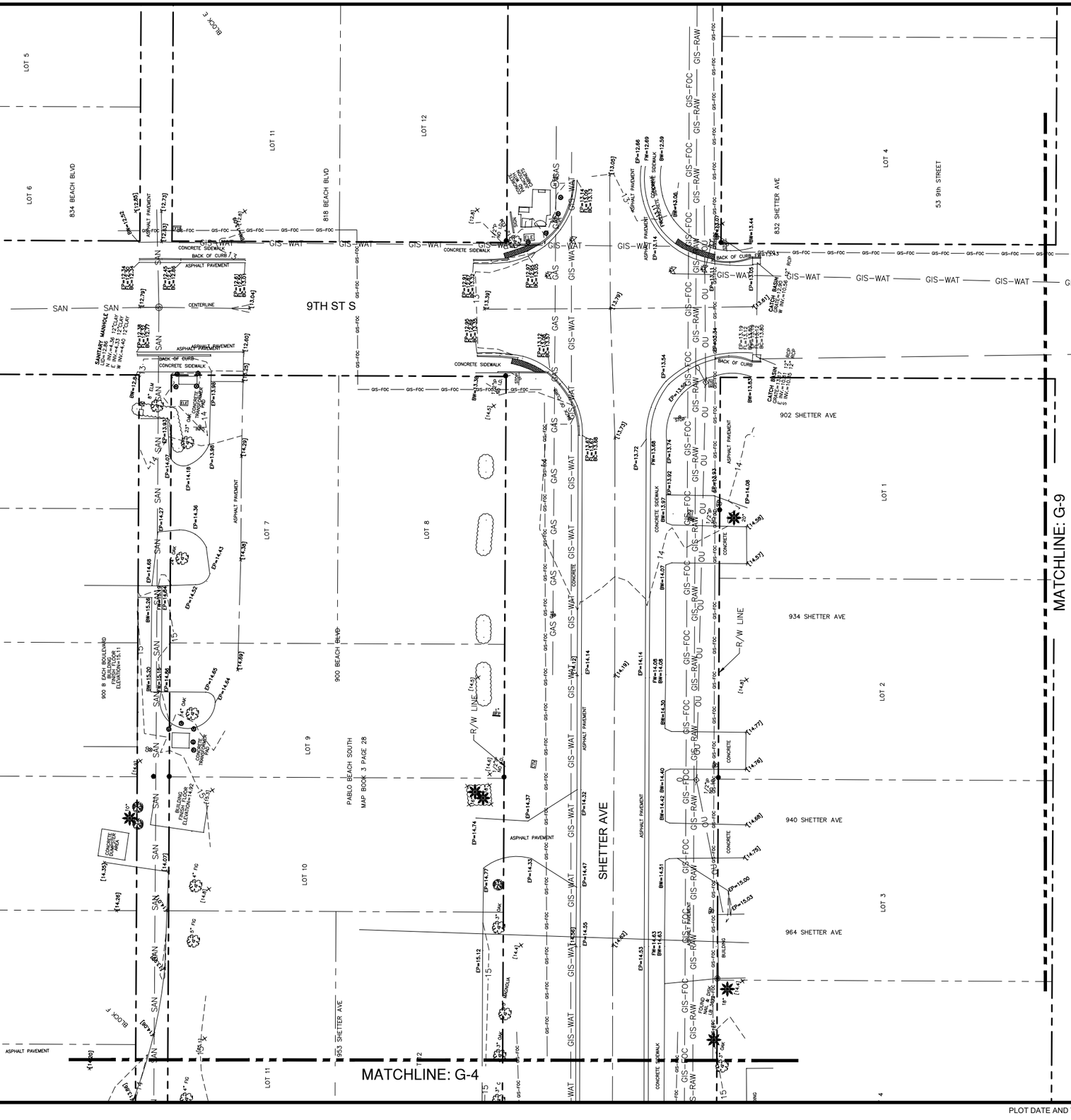




SURVEY NOTES PER SHEET G-2:

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STATE OF FLORIDA
PROFESSIONAL ENGINEER

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

EXISTING CONDITIONS

CITY OF JACKSONVILLE BEACH, FL

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DRAWN	BRH	ISSUE DATE	SEPTEMBER 2025
		ISSUE	BID

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G-8

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SURVEY NOTES PER SHEET G-2:

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EXISTING CONDITIONS KEYMAP

0 20' 40'

MATCHLINE: G-8

MATCHLINE: G-10

MATCHLINE: G-5

9TH ST S

1ST AVE S

2ND AVE S

831 1st AVENUE

836 1st AVENUE

125 9th STREET

106 9th STREET

916 1st AVENUE

920 1st AVENUE

924 1st AVENUE

930 1st AVENUE

122 9th STREET

921 2nd AVENUE

929 2nd AVENUE

BLOCK 10

BLOCK 19

LOT 1

LOT 2

LOT 3

LOT 4

LOT 5

LOT 6

LOT 7

LOT 8

SITE CONTROL
SITE BENCHMARK
ELEVATION 13.71
N 1543466.60
E 530454.43

CATCH BASIN
INV=12.89
S INV=8.69 18" RCP

STORM MANHOLE
RIM=13.41
N INV=8.74 18" RCP
S INV=8.69 18" RCP

DRAINAGE INLET
GRATE=12.88
E INV=9.74 18" RCP

SANITARY MANHOLE
RIM=13.76
W INV=9.74 8" PVC
E INV=9.76 8" PVC

STORM MANHOLE
RIM=13.54
SW INV=7.74 24" RCP
SW INV=7.74 18" CONC/DIP PIPE ELEV. ESTIMATED

STORM MANHOLE
RIM=13.41
N INV=6.97 SCP20
S INV=6.97 SCP20
W INV=8.42 18" RCP

CATCH BASIN
GRATE=12.85
E INV=8.65 18" RCP
W INV=8.51 24" RCP

CONCRETE SIDEWALK

ASPHALT PAVEMENT

CONCRETE DRIVEWAY

DIRT DRIVEWAY

BRICK DRIVEWAY AND SIDEWALK

4' CHAINLINK FENCE

6' WOOD FENCE

6' CHAINLINK FENCE

10' GATE

15' GATE

CONCRETE STEPS

CONCRETE PAD

BRICK SIDEWALK

CONCRETE SIDEWALK AND MAILBOX

CONCRETE SIDEWALK AND CURB

CONCRETE SIDEWALK AND CURB AND MAILBOX

CONCRETE SIDEWALK AND CURB AND MAILBOX

CONCRETE SIDEWALK AND CURB AND MAILBOX

SURVEY NOTES PER SHEET G-2:

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EXISTING CONDITIONS KEYMAP

N

0 20' 40'

9TH ST S

MATCHLINE: G-9

MATCHLINE: G-11

MATCHLINE: G-6

3RD AVE S

205 9th STREET
207 9th STREET
222 9th STREET
879 3rd AVENUE
307 9th STREET
831 4th AVENUE
230 9th STREET
912 3rd AVENUE
914 3rd AVENUE
916 3rd AVENUE
922 3rd AVENUE
925 4th AVENUE
320 9th STREET
903 4th AVENUE
911 4th AVENUE
204 9th STREET
208 9th STREET
216 9th STREET
224 9th STREET
915 3rd AVENUE
914 2nd AVENUE
916 2nd AVENUE
919 2nd AVENUE
922 2nd AVENUE
923 2nd AVENUE
927 2nd AVENUE
930 2nd AVENUE

LINCOLN CT S

LOT 1 LOT 2 LOT 3 LOT 4 LOT 5 LOT 6 LOT 7 LOT 8

SITE CONTROL BENCHMARK ELEVATION=13.68 N 530971.68 E 2

914 3rd AVE BUILDING FINISH FLOOR ELEVATION=16.45

CITY OF JACKSONVILLE BEACH, FL

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

EXISTING CONDITIONS

DESIGN	DRAWN	ISSUE	
MRK	BRH	DATE	BID
JOB #	19-1023	SEPTEMBER 2025	

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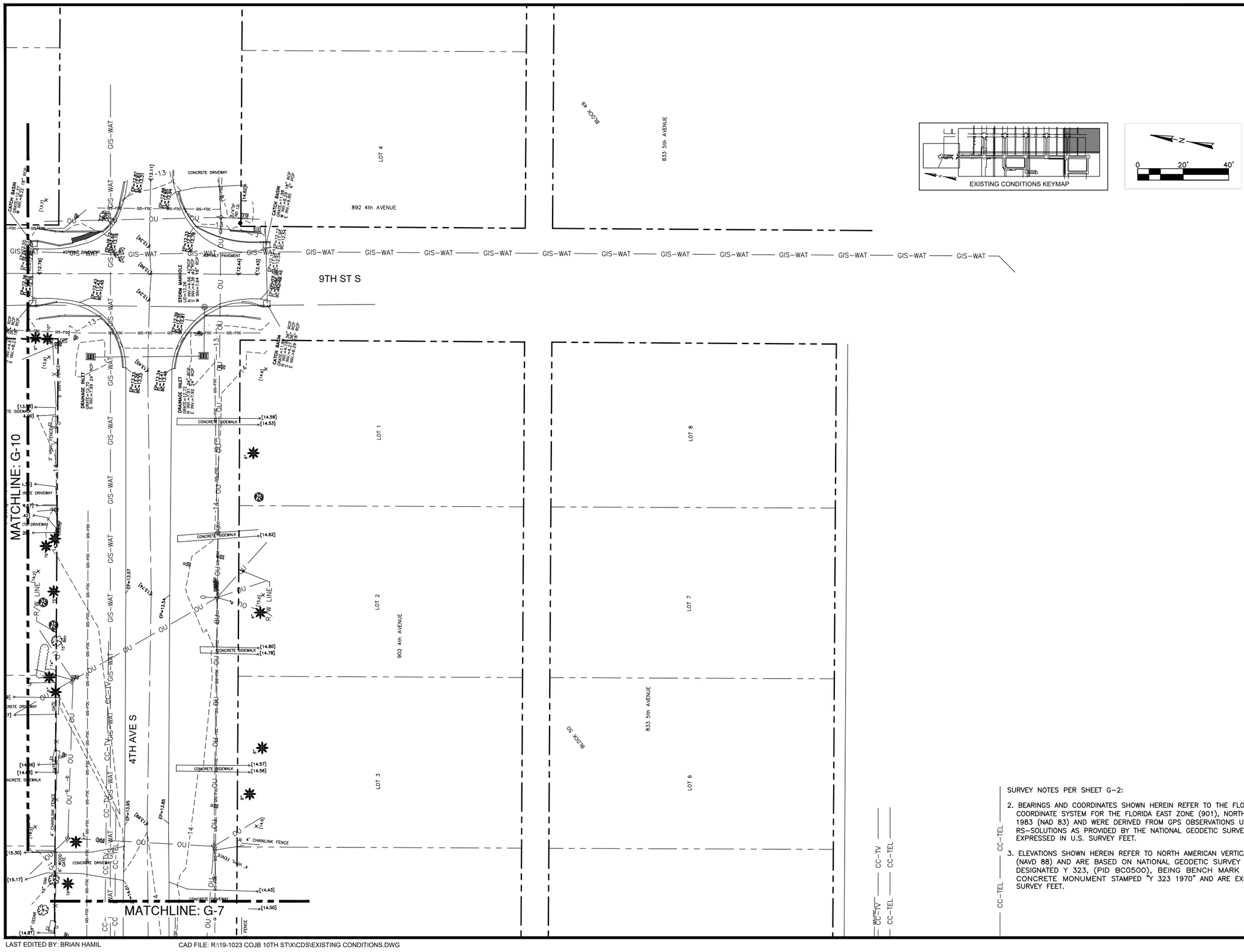
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CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II

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PLOT DATE AND TIME: 9/26/2025 8:55:11 AM



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10TH STREET SOUTH
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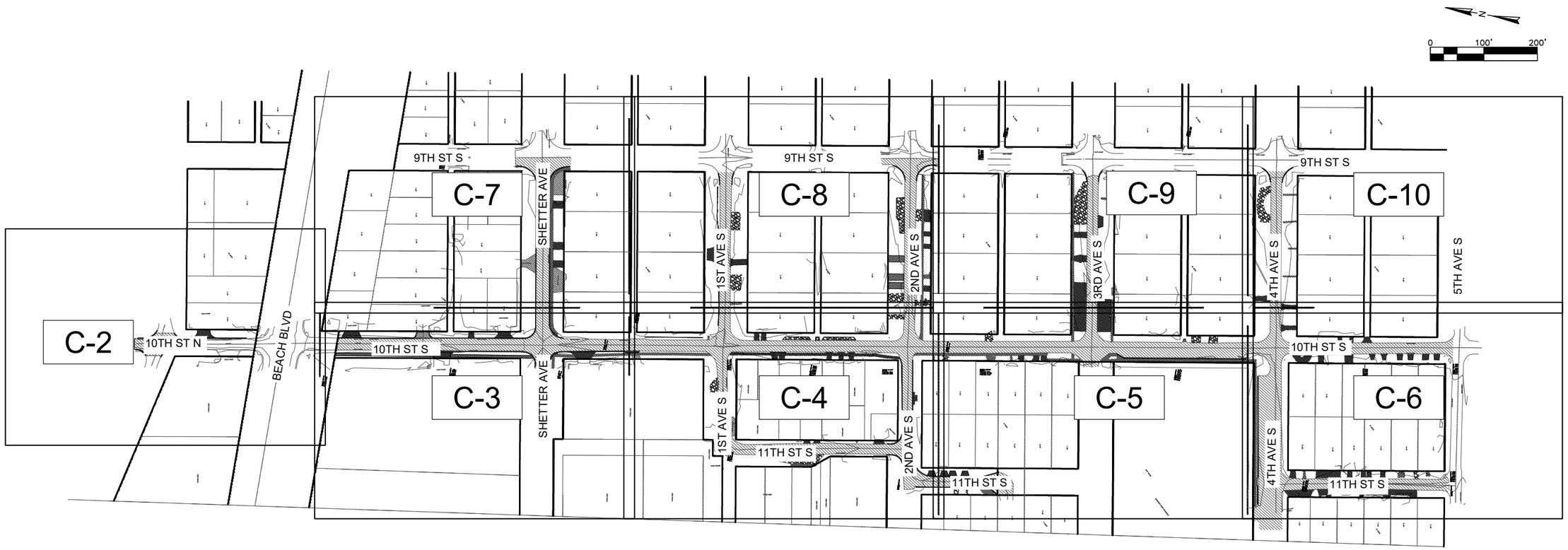
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ISSUE	BID

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DRAWING NUMBER
G-11

CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II



SURVEY NOTES PER SHEET G-2:

2. BEARINGS AND COORDINATES SHOWN HEREIN REFER TO THE FLORIDA STATE PLANE COORDINATE SYSTEM FOR THE FLORIDA EAST ZONE (901), NORTH AMERICAN DATUM OF 1983 (NAD 83) AND WERE DERIVED FROM GPS OBSERVATIONS UTILIZING OPUS RS-SOLUTIONS AS PROVIDED BY THE NATIONAL GEODETIC SURVEY (NGS) AND ARE EXPRESSED IN U.S. SURVEY FEET.

3. ELEVATIONS SHOWN HEREIN REFER TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) AND ARE BASED ON NATIONAL GEODETIC SURVEY (NGS) BENCHMARK DESIGNATED Y 323, (PID BC0500), BEING BENCH MARK DISK SET IN TOP OF CONCRETE MONUMENT STAMPED "Y 323 1970" AND ARE EXPRESSED IN U.S. SURVEY FEET.

MICHAEL R. KLINK
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STATE OF FLORIDA
PROFESSIONAL ENGINEER

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

PAVEMENT DEMOLITION - KEY MAP

CITY OF JACKSONVILLE BEACH, FL.

DESIGN	DRAWN	
MRK	BRH	
JOB #	19-1023	
ISSUE DATE	SEPTEMBER 2025	
ISSUE	BID	

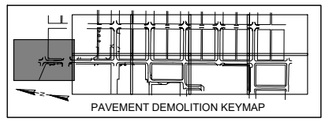
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C-1 - KEY

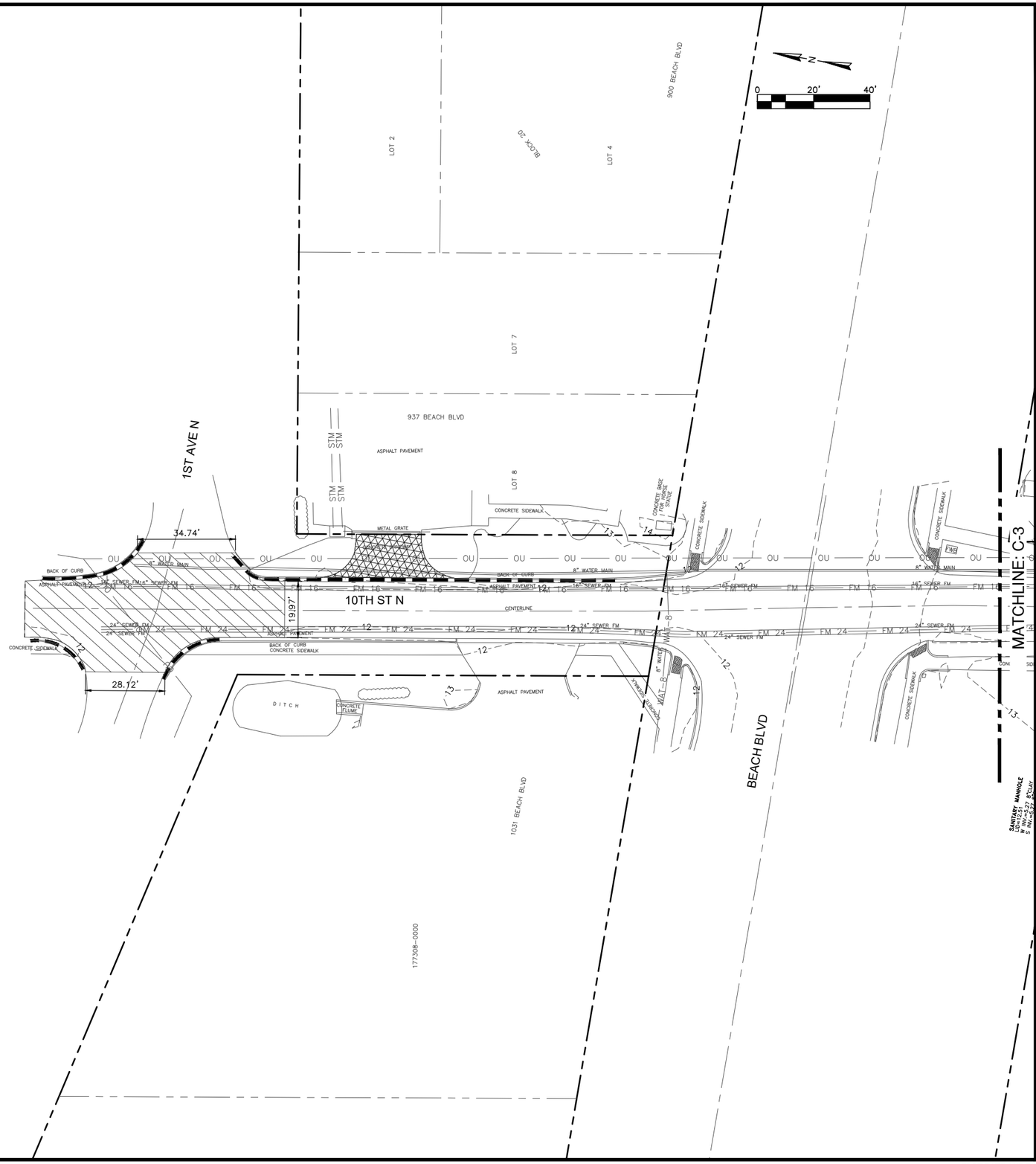
CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II

PAVEMENT DEMOLITION

- GRAVEL
- ASPHALT PAVEMENT
- ASPHALT DRIVEWAY
- BRICK SIDEWALK/DRIVEWAY
- CONCRETE SIDEWALK
- CONCRETE CURB
- CONCRETE DRIVEWAY



PAVEMENT DEMOLITION KEYMAP



SURVEY NOTES PER SHEET G-2:

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

PAVEMENT DEMOLITION

CITY OF JACKSONVILLE BEACH, FL

DESIGN	DRAWN
MRK	BRH
JOB #	19-1023
ISSUE DATE	SEPTEMBER 2025
ISSUE	BID

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C-2

CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II

MATCHLINE: C-2

MATCHLINE: C-7

MATCHLINE: C-4

10TH ST S

SHETTER AVE

1036 BEACH BLVD

992 BEACH

53 10th STREET

57 10th STREET

1100 SHETTER AVE

177310-0010

177309-0000

177311-0000

ASPHALT PAVEMENT

CONCRETE SIDEWALK

CONCRETE FLUME

BUILDING

CONCRETE

DITCH

CENTERLINE

R/W LINE

LOT 4

LOT 6

LOT 11

LOT 12

SANITARY MANHOLE
LID=12.51
N INV=4.57 8"DUCTILE
E INV=4.57 8"DUCTILE
S INV=4.57 8"DUCTILE

SANITARY MANHOLE
LID=14.24
N INV=5.23 8"PVC
W INV=5.43 8"PVC
E INV=5.43 8"PVC
S INV=5.03 8"PVC

SANITARY MANHOLE
LID=14.4
FORCE MAIN RELEASE MH#2

PUMP STATION
LID=14.33
EAST OF WATER

BUILDING FINISH FLOOR ELEVATION=14.84

CONCRETE TRANSFORMER PAD

0 20' 40'

PAVEMENT DEMOLITION KEYMAP

PAVEMENT DEMOLITION

- GRAVEL
- ASPHALT PAVEMENT
- ASPHALT DRIVEWAY
- BRICK SIDEWALK/DRIVEWAY
- CONCRETE SIDEWALK
- CONCRETE CURB
- CONCRETE DRIVEWAY

SURVEY NOTES PER SHEET G-2:

2. BEARINGS AND COORDINATES SHOWN HEREIN REFER TO THE FLORIDA STATE PLANE COORDINATE SYSTEM FOR THE FLORIDA EAST ZONE (901), NORTH AMERICAN DATUM OF 1983 (NAD 83) AND WERE DERIVED FROM GPS OBSERVATIONS UTILIZING OPUS RS-SOLUTIONS AS PROVIDED BY THE NATIONAL GEODETIC SURVEY (NGS) AND ARE EXPRESSED IN U.S. SURVEY FEET.

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

PAVEMENT DEMOLITION

CITY OF JACKSONVILLE BEACH, FL

DESIGN	MRK	DRAWN	BRH
JOB #	19-1023	ISSUE DATE	SEPTEMBER 2025
ISSUE	BID		

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C-3

CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II

LAST EDITED BY: BRIAN HAMIL

CAD FILE: R:\19-1023 COJB 10TH ST\X\CDS\PROPOSED DEMO.DWG

PLOT DATE AND TIME: 9/26/2025 8:55:34 AM

MATCHLINE: C-8

MATCHLINE: C-3

MATCHLINE: C-5

10TH ST S

11TH ST S

1ST AVE S

2ND AVE S

929 2nd AVENUE

936 1st AVENUE

935 2nd AVENUE

88 10th STREET

106 10th STREET

115 11th STREET

117 11th STREET

121 11th STREET

1001 2nd AVENUE

1012 1st AVENUE

1002 1st AVENUE

REMOVE EXISTING FENCE

REMOVE EXISTING FENCE

R/W LINE

SURVEY NOTES PER SHEET G-2:

2. BEARINGS AND COORDINATES SHOWN HEREIN REFER TO THE FLORIDA STATE PLANE COORDINATE SYSTEM FOR THE FLORIDA EAST ZONE (901), NORTH AMERICAN DATUM OF 1983 (NAD 83) AND WERE DERIVED FROM GPS OBSERVATIONS UTILIZING OPUS RS-SOLUTIONS AS PROVIDED BY THE NATIONAL GEODETIC SURVEY (NGS) AND ARE EXPRESSED IN U.S. SURVEY FEET.

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0 20' 40'

PAVEMENT DEMOLITION KEYMAP

PAVEMENT DEMOLITION

- GRAVEL
- ASPHALT PAVEMENT
- ASPHALT DRIVEWAY
- BRICK SIDEWALK/DRIVEWAY
- CONCRETE SIDEWALK
- CONCRETE CURB
- CONCRETE DRIVEWAY

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

PAVEMENT DEMOLITION

CITY OF JACKSONVILLE BEACH, FL

DESIGN MRK	DRAWN BRH		
		JOB #	19-1023
		ISSUE DATE	SEPTEMBER 2025
		ISSUE	BID

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CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II

MATCHLINE: C-9

MATCHLINE: C-4

MATCHLINE: C-6

10TH ST S

11TH ST S

3RD AVE S

R/W LINE

REMOVE EXISTING BRICK DRIVEWAY AND STORE BRICKS

REMOVE EXISTING BRICK DRIVEWAY AND STORE BRICKS

SANITARY MANHOLE RIM=11.84 8"PVC W INV.=11.19 12" CLAY E INV.=11.14 12" CLAY W INV.=12.14 6"CLAY

SANITARY MANHOLE RIM=14.22 NW INV.=10.12 8" CLAY W INV.=10.12 6" CLAY E INV.=10.24 6" CLAY

LOT 1 LOT 2 LOT 3 LOT 4 LOT 5 LOT 6 LOT 7 LOT 8 LOT 9 LOT 10 LOT 11 LOT 12

936 2nd AVENUE 931 2nd AVENUE 932 3rd AVENUE 309 10th STREET 321 10th STREET 937 4th AVENUE

0 10th STREET 260 10th STREET 272 10th STREET 0 11th STREET 200 10th STREET 315 10th STREET

931 2nd AVENUE BUILDING FINISH FLOOR ELEVATION=17.37

260 10th STREET BUILDING FINISH FLOOR ELEVATION=16.08

SCHOOL #44

JACKSONVILLE BEACH ELEMENTARY

PAVEMENT DEMOLITION KEYMAP

PAVEMENT DEMOLITION

- GRAVEL
- ASPHALT PAVEMENT
- ASPHALT DRIVEWAY
- BRICK SIDEWALK/DRIVEWAY
- CONCRETE SIDEWALK
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- CONCRETE DRIVEWAY

SURVEY NOTES PER SHEET G-2:

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0 20' 40'

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10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II

PAVEMENT DEMOLITION

CITY OF JACKSONVILLE BEACH, FL

DESIGN	DRAWN	JOB #	ISSUE DATE	ISSUE
MRK	BRH	19-1023	SEPTEMBER 2025	BID

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DRAWING NUMBER C-5

CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II

LAST EDITED BY: BRIAN HAMIL

CAD FILE: R:\19-1023 COJB 10TH ST\X\CDS\PROPOSED DEMO.DWG

PLOT DATE AND TIME: 9/26/2025 8:55:39 AM

MATCHLINE: C-10

MATCHLINE: C-5

SEE INSET: THIS PAGE

10TH ST S

11TH ST S

4TH AVE S

5TH AVE S

R/W LINE

LOT 1 — 402 10th STREET

LOT 2 — 408 10th STREET

LOT 3 — 414 10th STREET

LOT 4 — 422 10th STREET

LOT 4 — 426 10th STREET

LOT 5 — 432 10th STREET

LOT 6

LOT 12 — 403 11th STREET

LOT 11 — 409 11th STREET

LOT 10 — 417 11th STREET

LOT 9 — 421 11th STREET

LOT 8 — 427 11th STREET

LOT 7 — 433 11th STREET

414 11th STREET

420 11th STREET

428 11th STREET

938 4th AVENUE BUILDING

936 4th AVENUE

1103 5th AVENUE

LIMEROCK ROAD

BLOCK 12

JACKSONVILLE BEACH ELEMENTARY DRIVEWAY

SANITARY MANHOLE
UDH-#13
N INV=10.62 8"PVC
S INV=10.02 8"PVC
E INV=10.15 8"PVC

SANITARY MANHOLE
UDH-#11
N INV=10.81 8"CLAY
S INV=10.71 8"CLAY

SANITARY MANHOLE
UDH-#12
N INV=10.48 8"CLAY
S INV=10.43 8"CLAY
W INV=10.54 6"CLAY

SANITARY MANHOLE
UDH-#10
N INV=10.88 8"CLAY

0 20' 40'

PAVEMENT DEMOLITION KEYMAP

PAVEMENT DEMOLITION

- GRAVEL
- ASPHALT PAVEMENT
- ASPHALT DRIVEWAY
- BRICK SIDEWALK/DRIVEWAY
- CONCRETE SIDEWALK
- CONCRETE CURB
- CONCRETE DRIVEWAY

SURVEY NOTES PER SHEET G-2:

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INSET

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

PAVEMENT DEMOLITION

CITY OF JACKSONVILLE BEACH, FL

DESIGN MRK	DRAWN BRH		
JOB #	19-1023		
ISSUE DATE	SEPTEMBER 2025		
ISSUE	BID		

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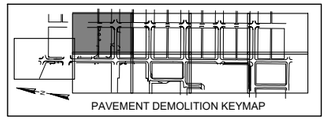
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C-6

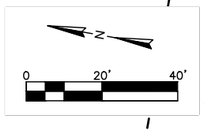
CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II

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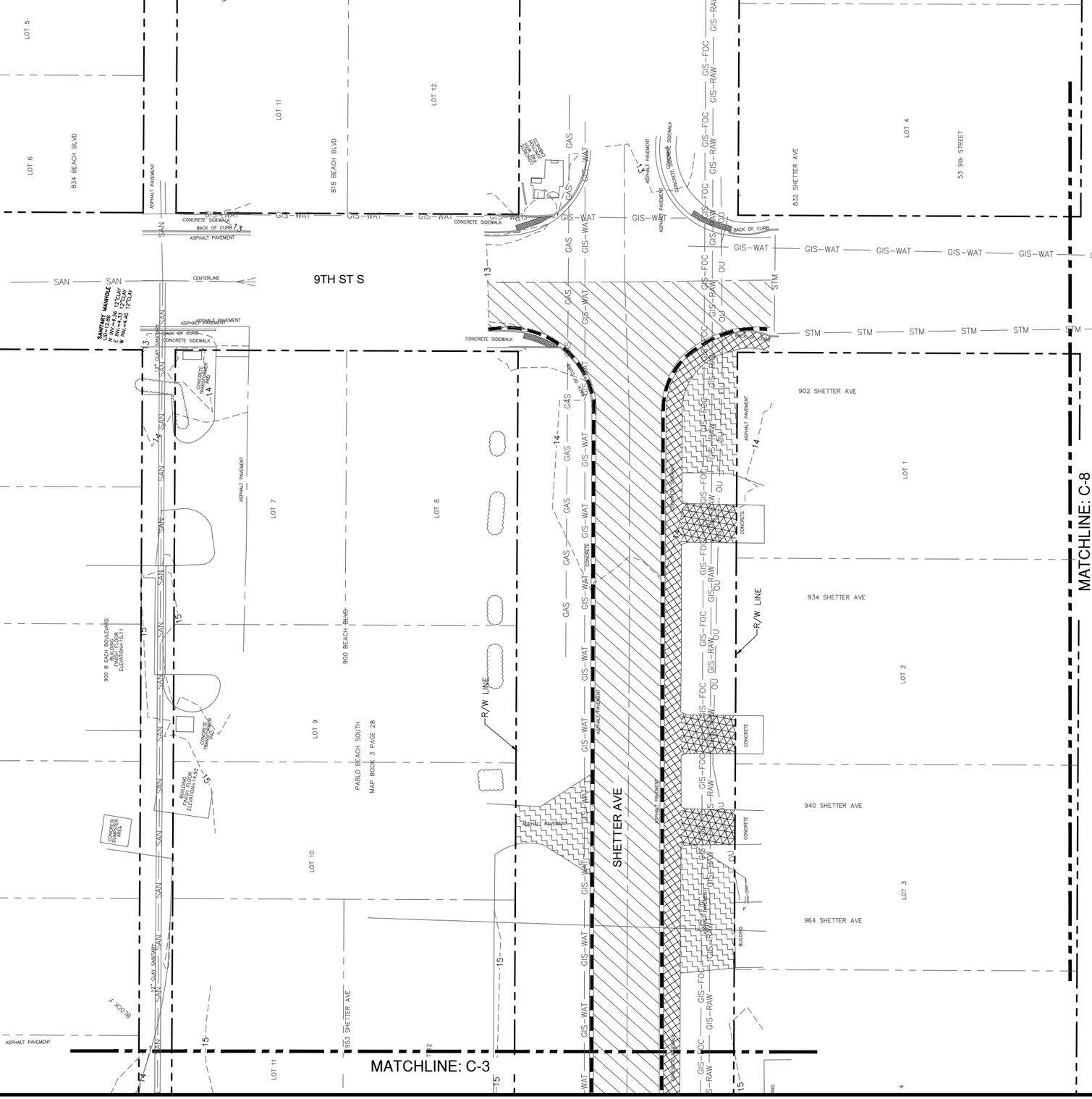
PAVEMENT DEMOLITION

- GRAVEL
- ASPHALT PAVEMENT
- ASPHALT DRIVEWAY
- BRICK SIDEWALK/DRIVEWAY
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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

PAVEMENT DEMOLITION

CITY OF JACKSONVILLE BEACH, FL

DESIGN	DRAWN
MRK	BRH
JOB #	19-1023
ISSUE DATE	SEPTEMBER 2025
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DRAWING NUMBER
C-7

CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II

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PAVEMENT DEMOLITION
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- ASPHALT PAVEMENT
- ASPHALT DRIVEWAY
- BRICK SIDEWALK/DRIVEWAY
- CONCRETE SIDEWALK
- CONCRETE CURB
- CONCRETE DRIVEWAY

PAVEMENT DEMOLITION KEYMAP

0 20' 40'

MATCHLINE: C-7

MATCHLINE: C-9

MATCHLINE: C-4

9TH ST S

106 9th STREET

122 9th STREET

916 1st AVENUE

920 1st AVENUE

924 1st AVENUE

930 1st AVENUE

929 2nd AVENUE

831 1st AVENUE

836 1st AVEN

1ST AVE S

2ND AVE S

REMOVE EXISTING FENCE

REMOVE EXISTING FENCE

REMOVE EXISTING BRICK SIDEWALK AND STORE BRICKS

REMOVE EXISTING BRICK DRIVEWAY/SIDEWALK AND STORE BRICKS

R/W LINE

R/W LINE

R/W LINE

LOT 1 LOT 2 LOT 3 LOT 4 LOT 5 LOT 6 LOT 7 LOT 8

BLOCK 9 BLOCK 10 BLOCK 8

SANITARY MANHOLE RIM=9.74 W E INV=4.76 S INV=4.86 E

MICHAEL R. KLINK LICENSE No. 71840 STATE OF FLORIDA PROFESSIONAL ENGINEER

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

PAVEMENT DEMOLITION

CITY OF JACKSONVILLE BEACH, FL

DESIGN	DRAWN
MRK	BRH
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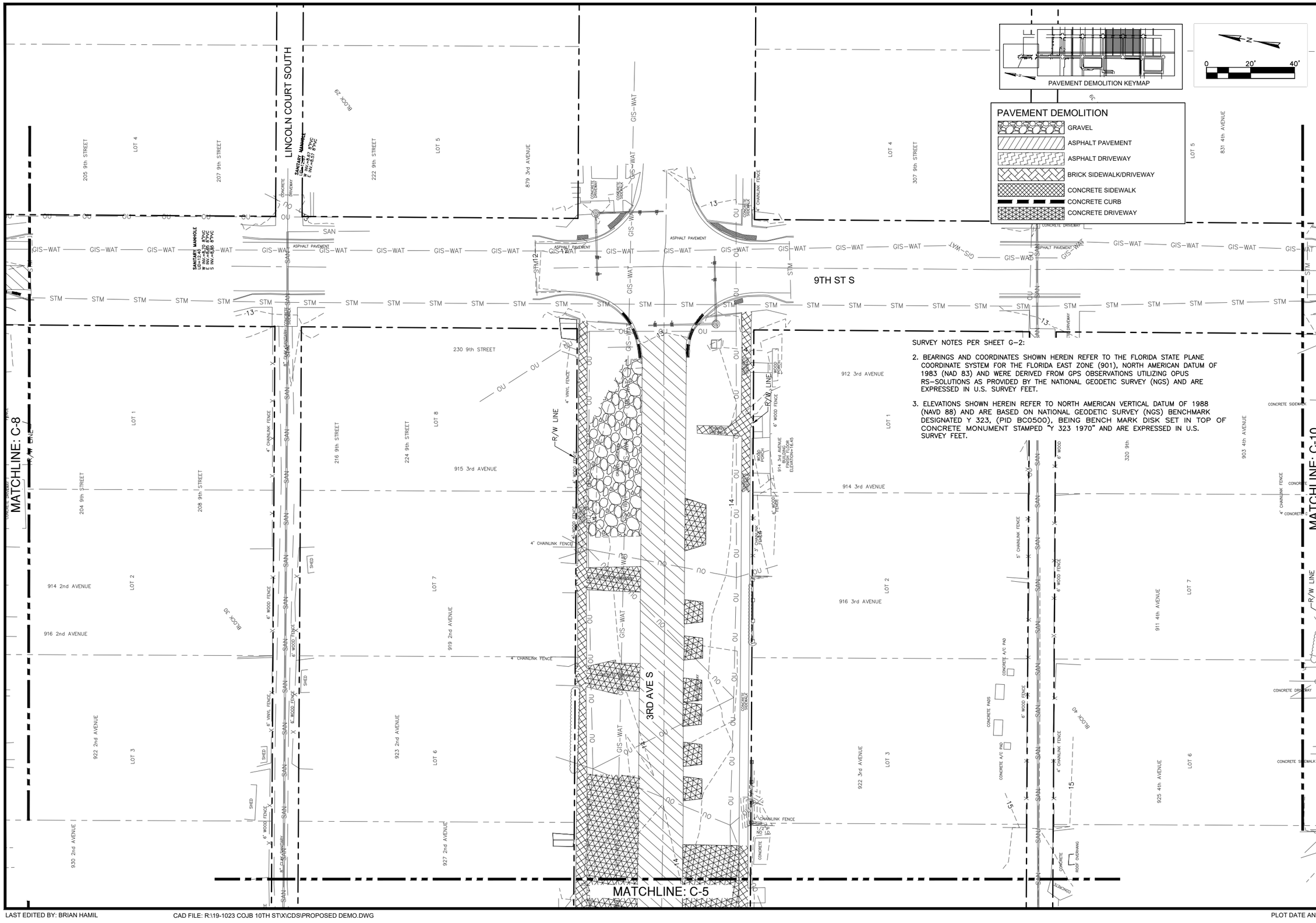
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C-8

CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II

LAST EDITED BY: BRIAN HAMIL

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PLOT DATE AND TIME: 9/26/2025 8:55:47 AM



PAVEMENT DEMOLITION

- GRAVEL
- ASPHALT PAVEMENT
- ASPHALT DRIVEWAY
- BRICK SIDEWALK/DRIVEWAY
- CONCRETE SIDEWALK
- CONCRETE CURB
- CONCRETE DRIVEWAY

SURVEY NOTES PER SHEET G-2:

2. BEARINGS AND COORDINATES SHOWN HEREIN REFER TO THE FLORIDA STATE PLANE COORDINATE SYSTEM FOR THE FLORIDA EAST ZONE (901), NORTH AMERICAN DATUM OF 1983 (NAD 83) AND WERE DERIVED FROM GPS OBSERVATIONS UTILIZING OPUS RS-SOLUTIONS AS PROVIDED BY THE NATIONAL GEODETIC SURVEY (NGS) AND ARE EXPRESSED IN U.S. SURVEY FEET.

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MICHAEL R. KLINK
LICENSE
No. 71840
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

PAVEMENT DEMOLITION

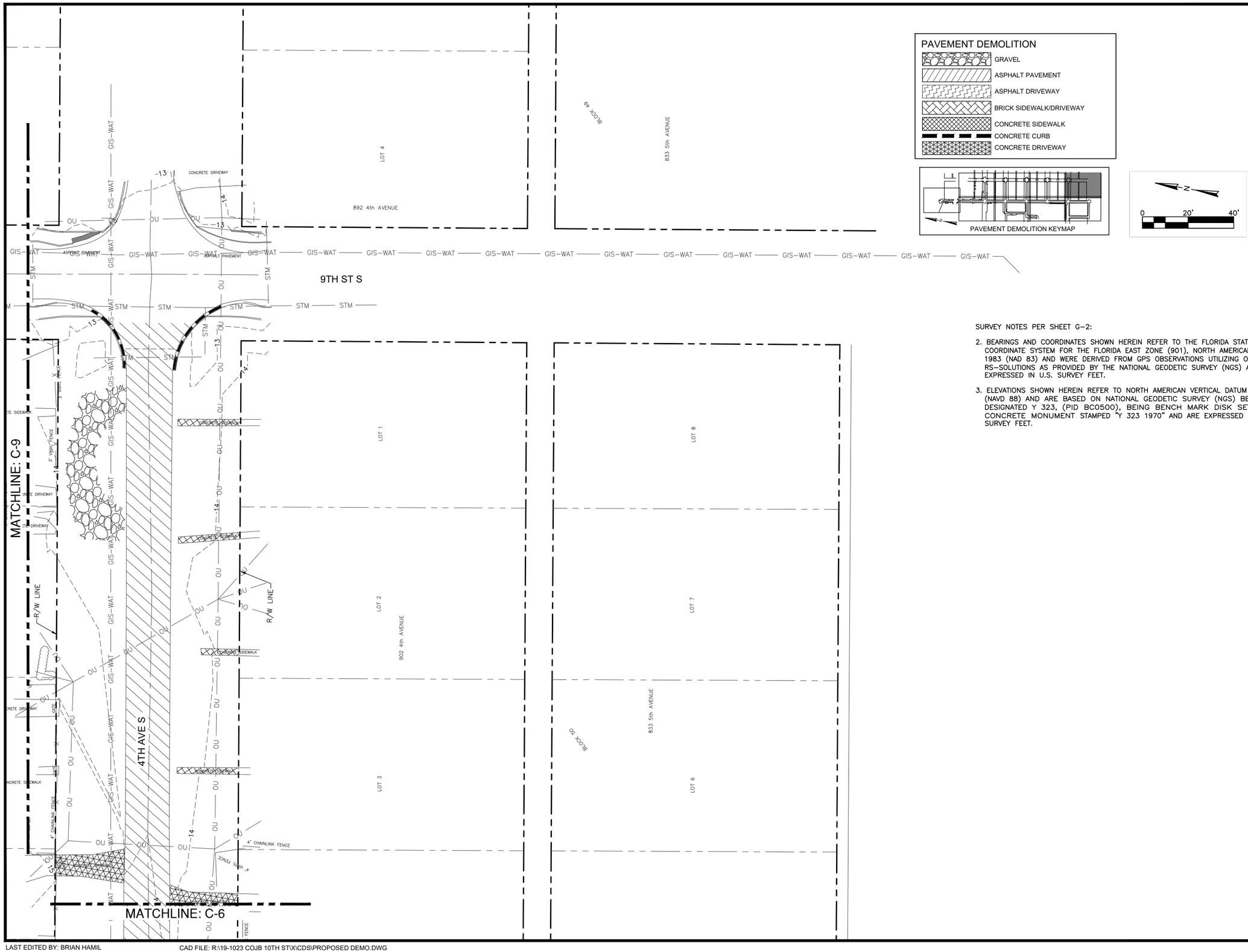
CITY OF JACKSONVILLE BEACH, FL

DESIGN	DRAWN
MRK	BRH
JOB #	19-1023
ISSUE DATE	SEPTEMBER 2025
ISSUE	BID

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DRAWING NUMBER
C-9

CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II



SURVEY NOTES PER SHEET G-2:

2. BEARINGS AND COORDINATES SHOWN HEREIN REFER TO THE FLORIDA STATE PLANE COORDINATE SYSTEM FOR THE FLORIDA EAST ZONE (901), NORTH AMERICAN DATUM OF 1983 (NAD 83) AND WERE DERIVED FROM GPS OBSERVATIONS UTILIZING OPUS RS-SOLUTIONS AS PROVIDED BY THE NATIONAL GEODETIC SURVEY (NGS) AND ARE EXPRESSED IN U.S. SURVEY FEET.

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

PAVEMENT DEMOLITION

CITY OF JACKSONVILLE BEACH, FL

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JOB #	19-1023		
ISSUE DATE	SEPTEMBER 2025		
ISSUE	BID		

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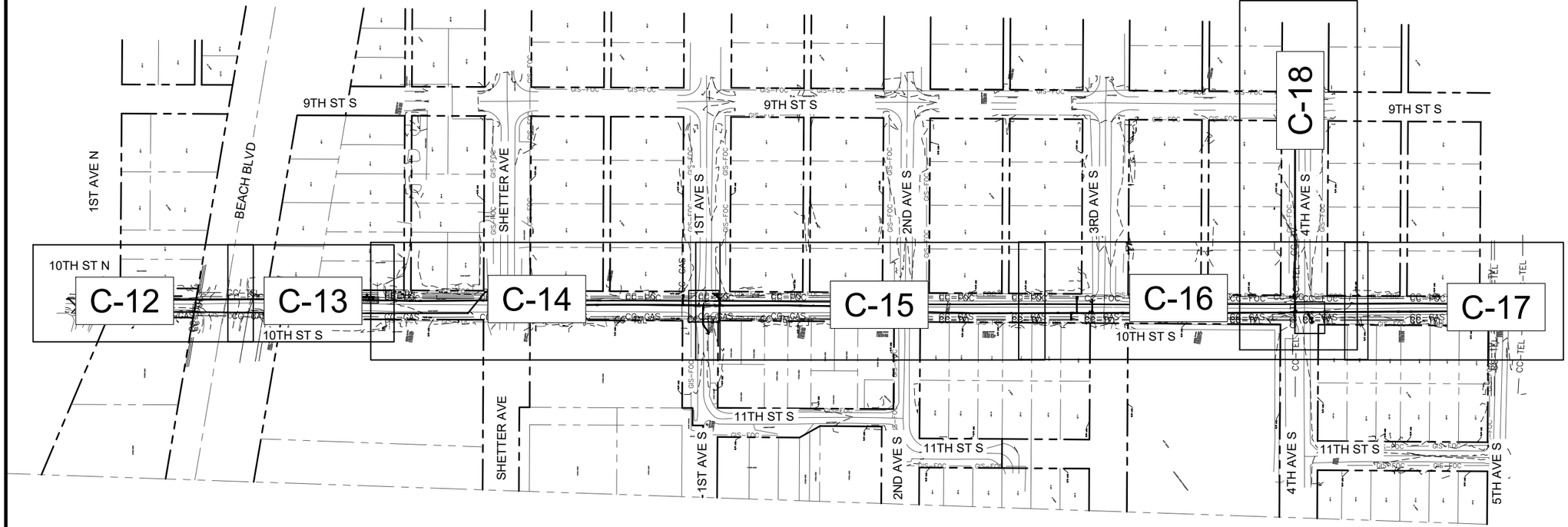
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C-10

CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II

LAST EDITED BY: BRIAN HAMIL

CAD FILE: R:\19-1023 COJB 10TH ST\X\CDS\PROPOSED DEMO.DWG

PLOT DATE AND TIME: 9/26/2025 8:55:52 AM



SURVEY NOTES PER SHEET G-2:

2. BEARINGS AND COORDINATES SHOWN HEREIN REFER TO THE FLORIDA STATE PLANE COORDINATE SYSTEM FOR THE FLORIDA EAST ZONE (901), NORTH AMERICAN DATUM OF 1983 (NAD 83) AND WERE DERIVED FROM GPS OBSERVATIONS UTILIZING OPUS RS-SOLUTIONS AS PROVIDED BY THE NATIONAL GEODETIC SURVEY (NGS) AND ARE EXPRESSED IN U.S. SURVEY FEET.

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

WATERMAIN REPLACEMENT - KEY MAP

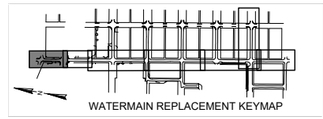
CITY OF JACKSONVILLE BEACH, FL

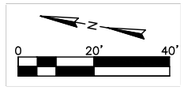
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JOB #	19-1023	ISSUE DATE	SEPTEMBER 2025
ISSUE	BID		

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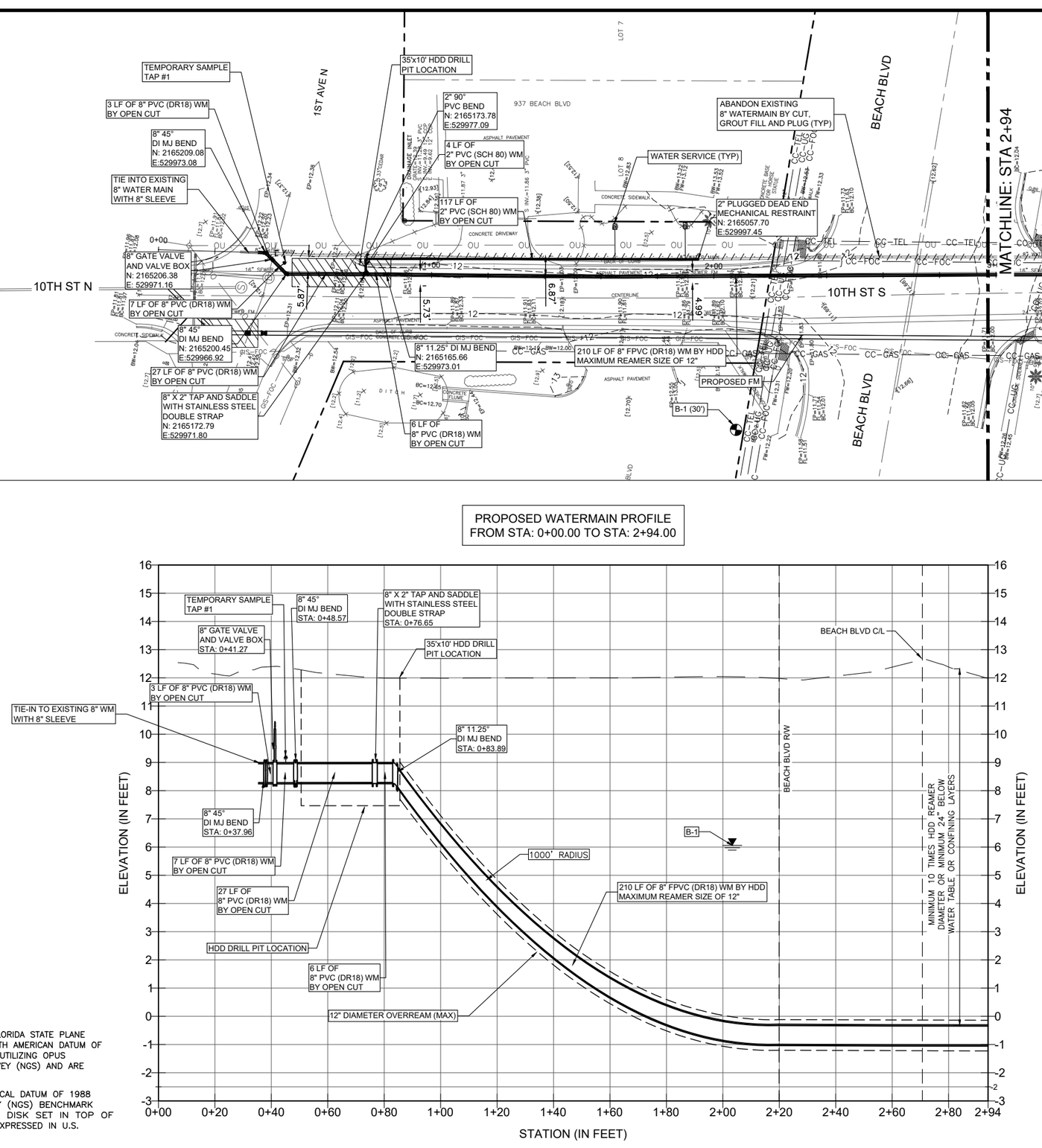
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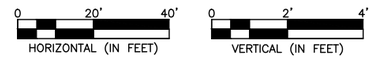
CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II





PROPOSED WATERMAIN PROFILE
FROM STA: 0+00.00 TO STA: 2+94.00





SURVEY NOTES PER SHEET G-2:

2. BEARINGS AND COORDINATES SHOWN HEREIN REFER TO THE FLORIDA STATE PLANE COORDINATE SYSTEM FOR THE FLORIDA EAST ZONE (901), NORTH AMERICAN DATUM OF 1983 (NAD 83) AND WERE DERIVED FROM GPS OBSERVATIONS UTILIZING OPUS RS-SOLUTIONS AS PROVIDED BY THE NATIONAL GEODETIC SURVEY (NGS) AND ARE EXPRESSED IN U.S. SURVEY FEET.

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

WATERMAIN REPLACEMENT - HDD

CITY OF JACKSONVILLE BEACH, FL

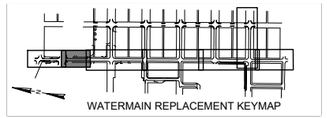
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MRK	BRH

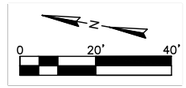
JOB #	ISSUE DATE	ISSUE
19-1023	SEPTEMBER 2025	BID

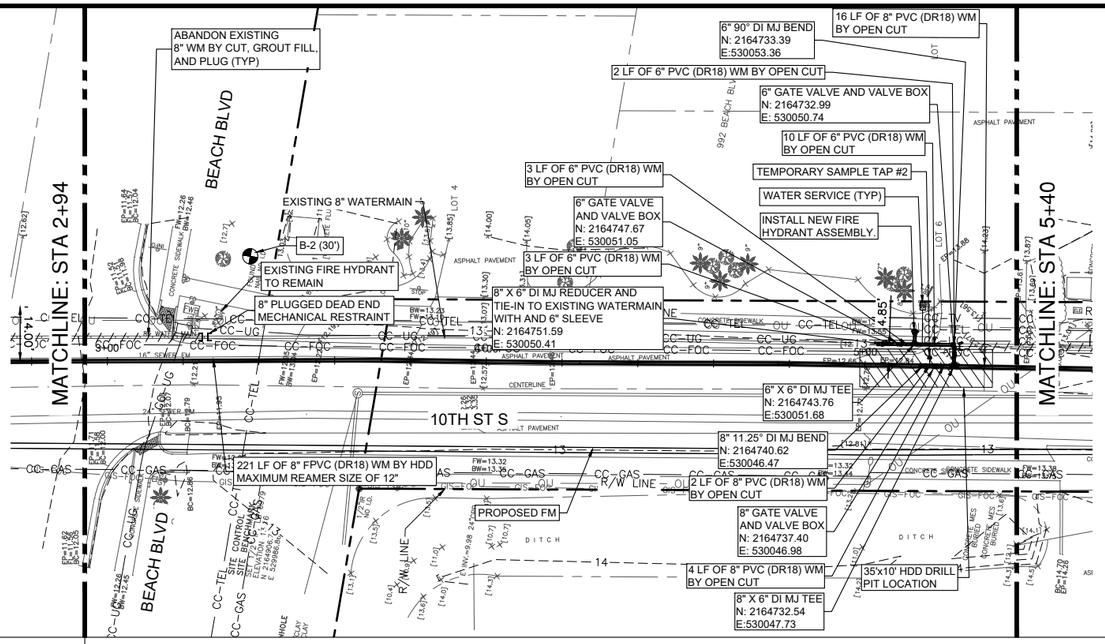
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DRAWING NUMBER
C-12

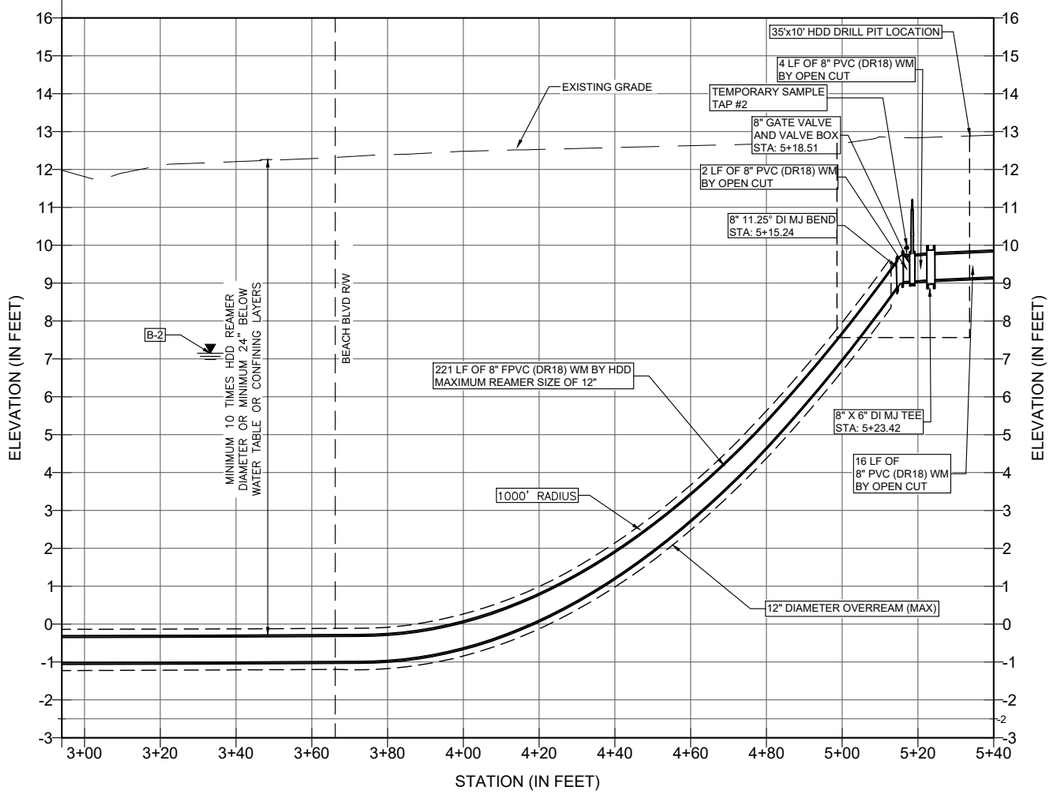
CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II







PROPOSED WATERMAIN PROFILE
FROM STA: 2+94.00 TO STA: 5+40.00



0 20' 40'
HORIZONTAL (IN FEET)

0 2' 4'
VERTICAL (IN FEET)

SURVEY NOTES PER SHEET G–2:

2. BEARINGS AND COORDINATES SHOWN HEREIN REFER TO THE FLORIDA STATE PLANE COORDINATE SYSTEM FOR THE FLORIDA EAST ZONE (901), NORTH AMERICAN DATUM OF 1983 (NAD 83) AND WERE DERIVED FROM GPS OBSERVATIONS UTILIZING OPUS RS–SOLUTIONS AS PROVIDED BY THE NATIONAL GEODETIC SURVEY (NGS) AND ARE EXPRESSED IN U.S. SURVEY FEET.

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

WATERMAIN REPLACEMENT - HDD

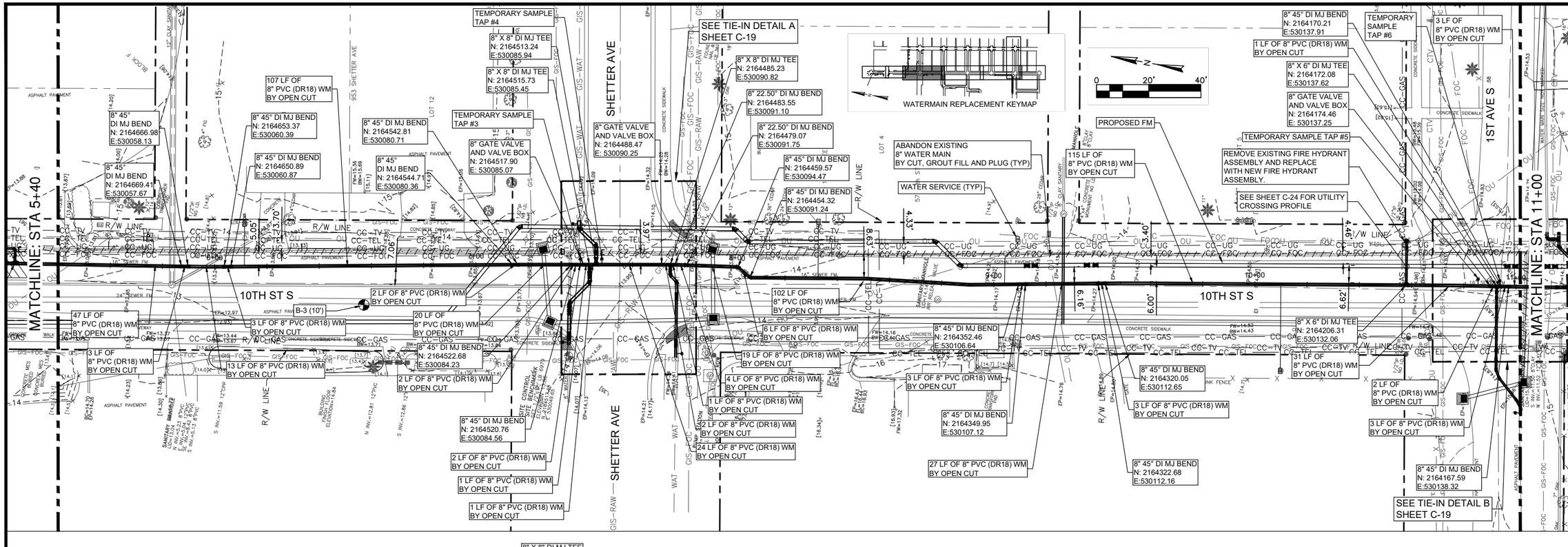
CITY OF JACKSONVILLE BEACH, FL

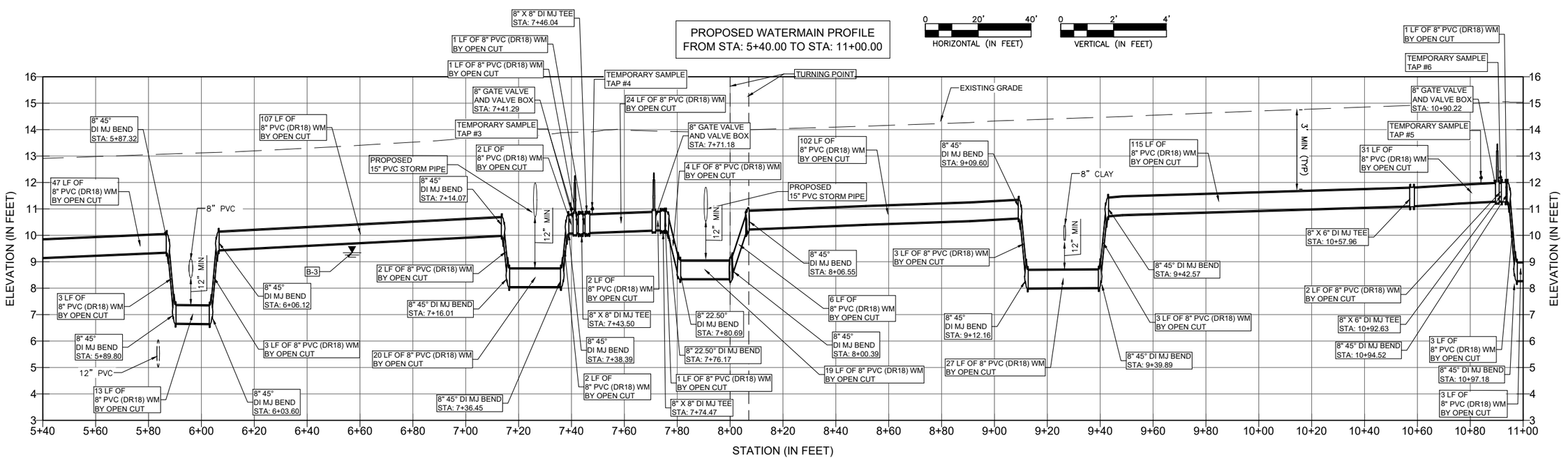
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JOB #	19-1023	ISSUE DATE	SEPTEMBER 2025
ISSUE	BID		

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C-13

CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II





SURVEY NOTES PER SHEET G-2:

2. BEARINGS AND COORDINATES SHOWN HEREIN REFER TO THE FLORIDA STATE PLANE COORDINATE SYSTEM FOR THE FLORIDA EAST ZONE (901), NORTH AMERICAN DATUM OF 1983 (NAD 83) AND WERE DERIVED FROM GPS OBSERVATIONS UTILIZING OPUS RS-SOLUTIONS AS PROVIDED BY THE NATIONAL GEODETIC SURVEY (NGS) AND ARE EXPRESSED IN U.S. SURVEY FEET.

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

WATERMAIN REPLACEMENT

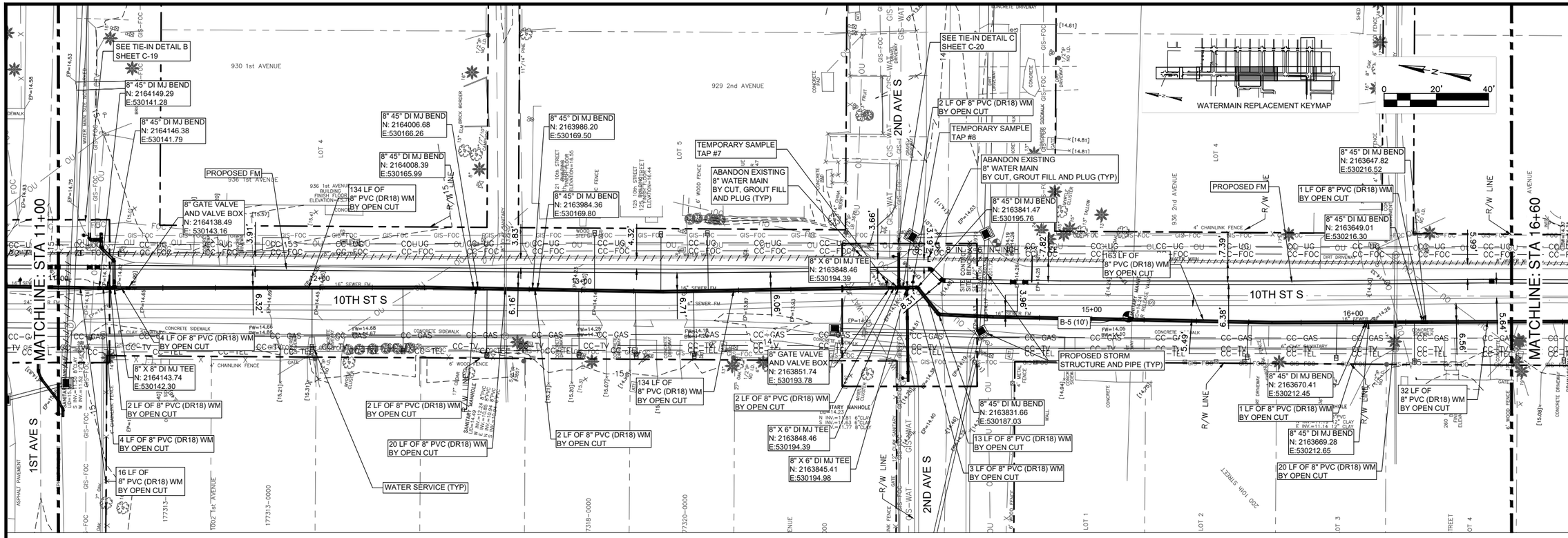
CITY OF JACKSONVILLE BEACH, FL

DESIGN	MRK	JOB #	19-1023	ISSUE DATE	SEPTEMBER 2025	ISSUE	BID
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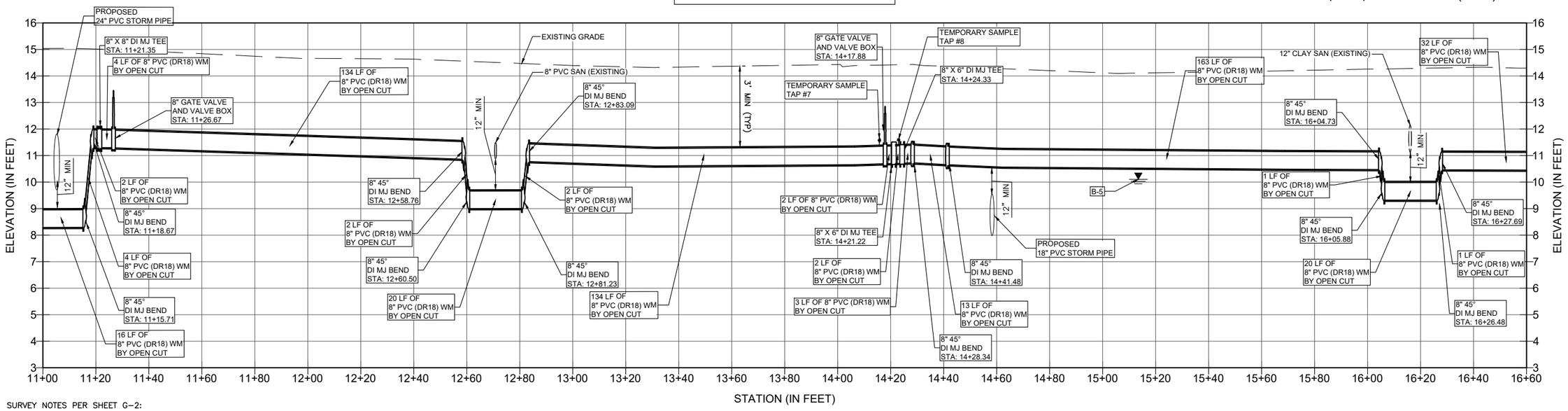
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C-14

CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II



PROPOSED WATERMAIN PROFILE FROM STA: 11+00.00 TO STA: 16+60.00



SURVEY NOTES PER SHEET G-2:

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

WATERMAIN REPLACEMENT

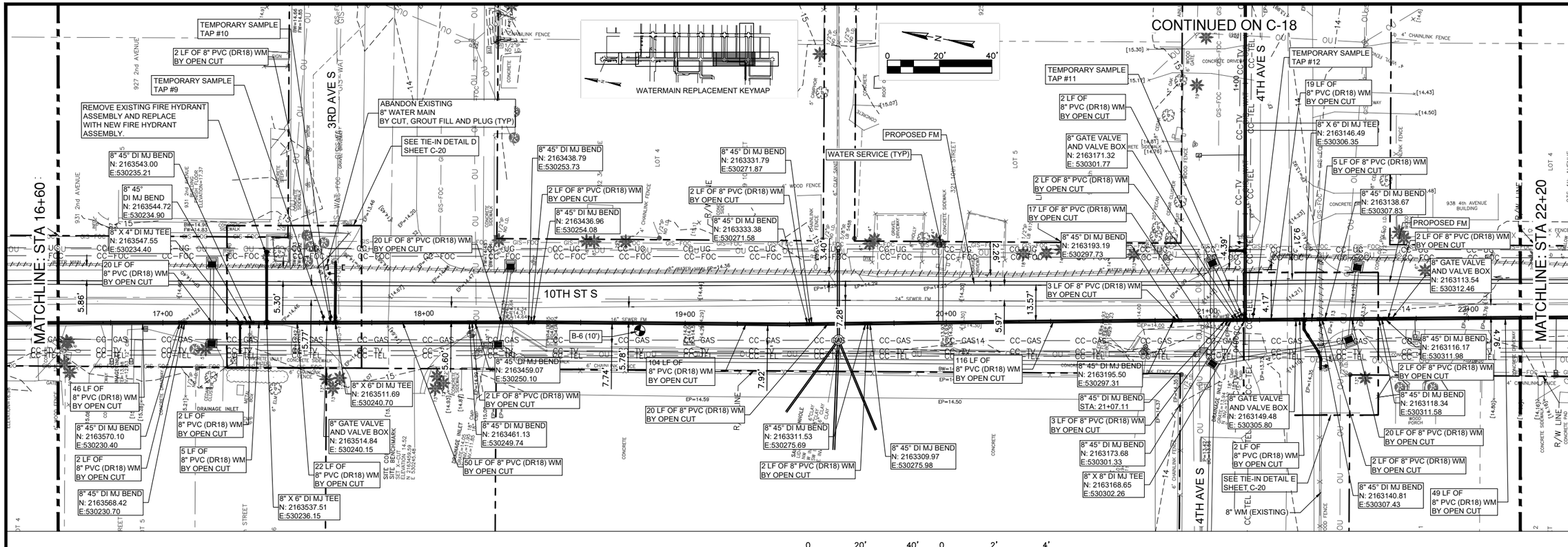
CITY OF JACKSONVILLE BEACH, FL

DESIGN	DRAWN	JOB #	ISSUE DATE	ISSUE
MRK	BRH	19-1023	SEPTEMBER 2025	BID

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DRAWING NUMBER
C-15

CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II



SURVEY NOTES PER SHEET G-2:

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

WATERMAIN REPLACEMENT

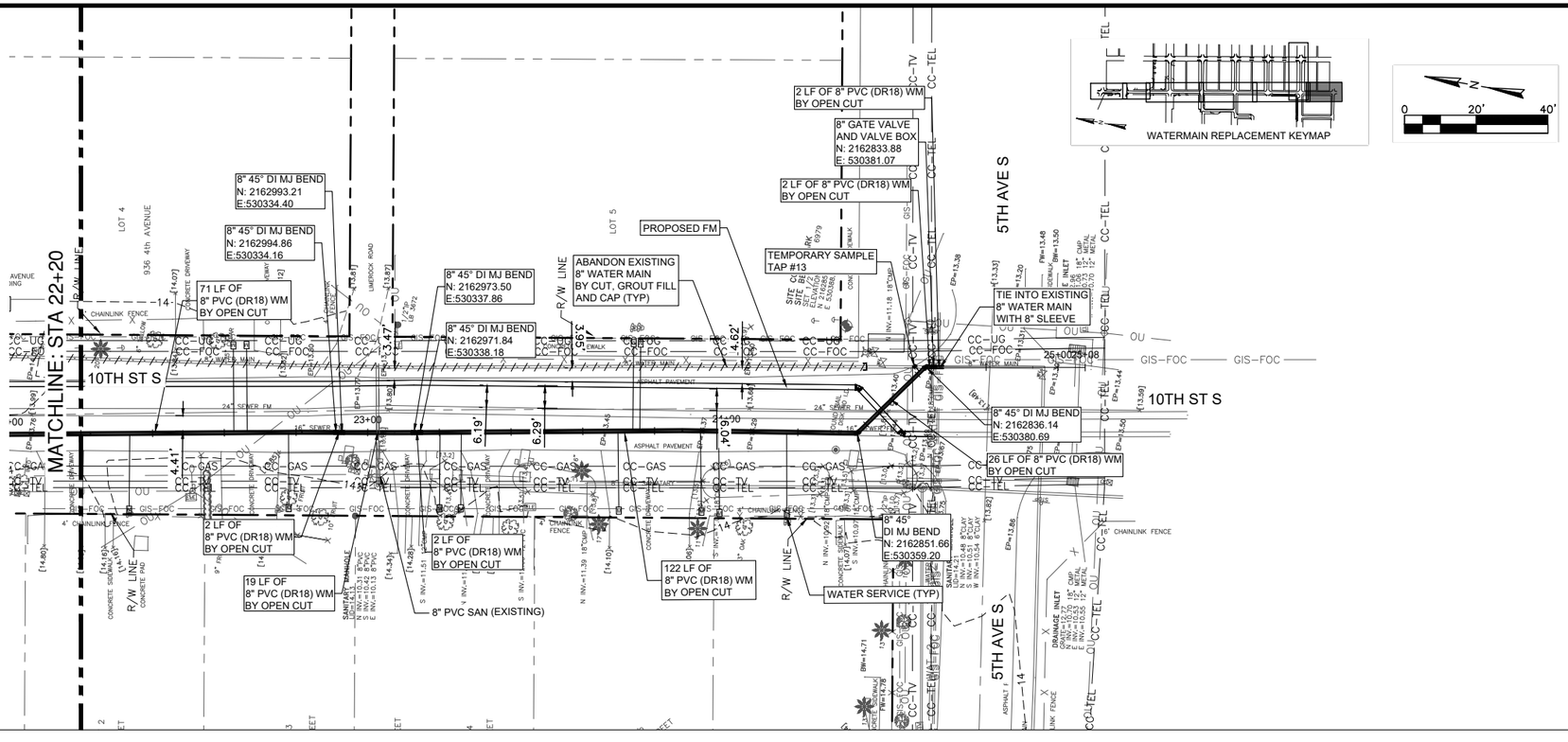
CITY OF JACKSONVILLE BEACH, FL

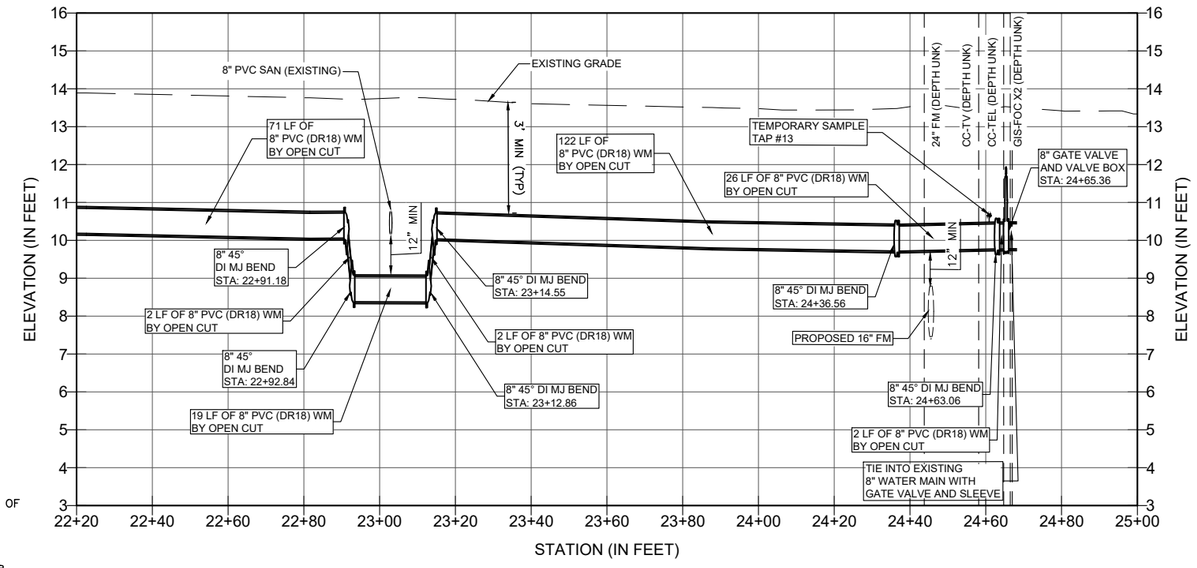
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DRAWN	BRH						

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DRAWING NUMBER
C-16

CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II





0 20' 40'
HORIZONTAL (IN FEET)

0 2' 4'
VERTICAL (IN FEET)

SURVEY NOTES PER SHEET G-2:

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

WATERMAIN REPLACEMENT

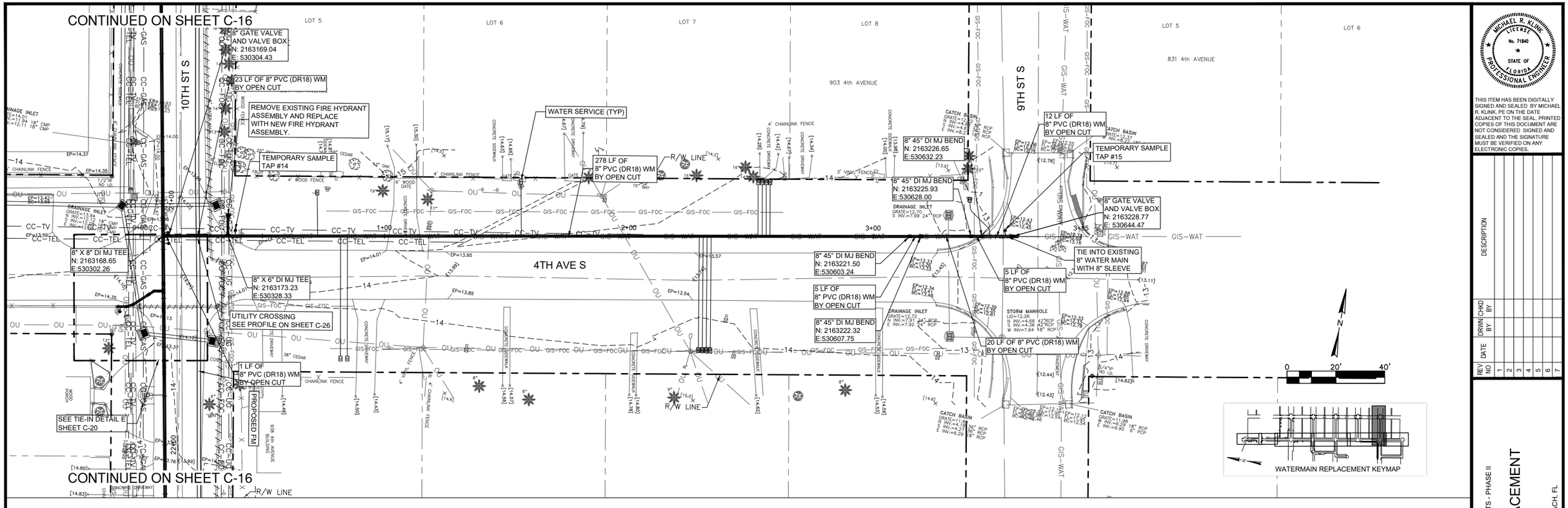
CITY OF JACKSONVILLE BEACH, FL

DESIGN MRK	DRAWN BRH		
JOB #	19-1023	ISSUE DATE	SEPTEMBER 2025
		ISSUE	BID

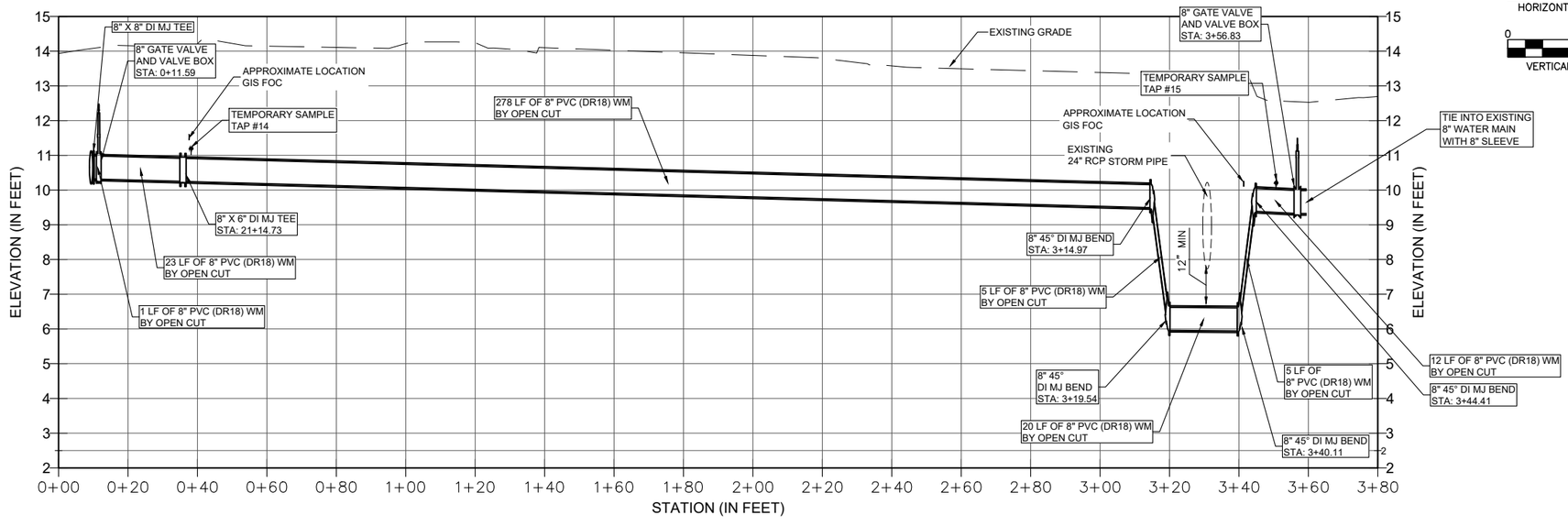
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324 6th AVE N. JACKSONVILLE BEACH, FLORIDA 32250
904-414-2400 C.O.A.# 31101 WWW.4WENG.COM

DRAWING NUMBER
C-17

CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II



4TH AVENUE PROFILE
FROM STA: 0+00.00 TO STA: 3+80.00



0 20' 40'
HORIZONTAL (IN FEET)

0 2' 4'
VERTICAL (IN FEET)

SURVEY NOTES PER SHEET G-2:

2. BEARINGS AND COORDINATES SHOWN HEREIN REFER TO THE FLORIDA STATE PLANE COORDINATE SYSTEM FOR THE FLORIDA EAST ZONE (901), NORTH AMERICAN DATUM OF 1983 (NAD 83) AND WERE DERIVED FROM GPS OBSERVATIONS UTILIZING OPUS RS-SOLUTIONS AS PROVIDED BY THE NATIONAL GEODETIC SURVEY (NGS) AND ARE EXPRESSED IN U.S. SURVEY FEET.

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MICHAEL R. KLINK LICENSE No. 71840 STATE OF FLORIDA PROFESSIONAL ENGINEER

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REV NO	DATE	DRWN CHKD BY	DESCRIPTION
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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

WATERMAIN REPLACEMENT

CITY OF JACKSONVILLE BEACH, FL

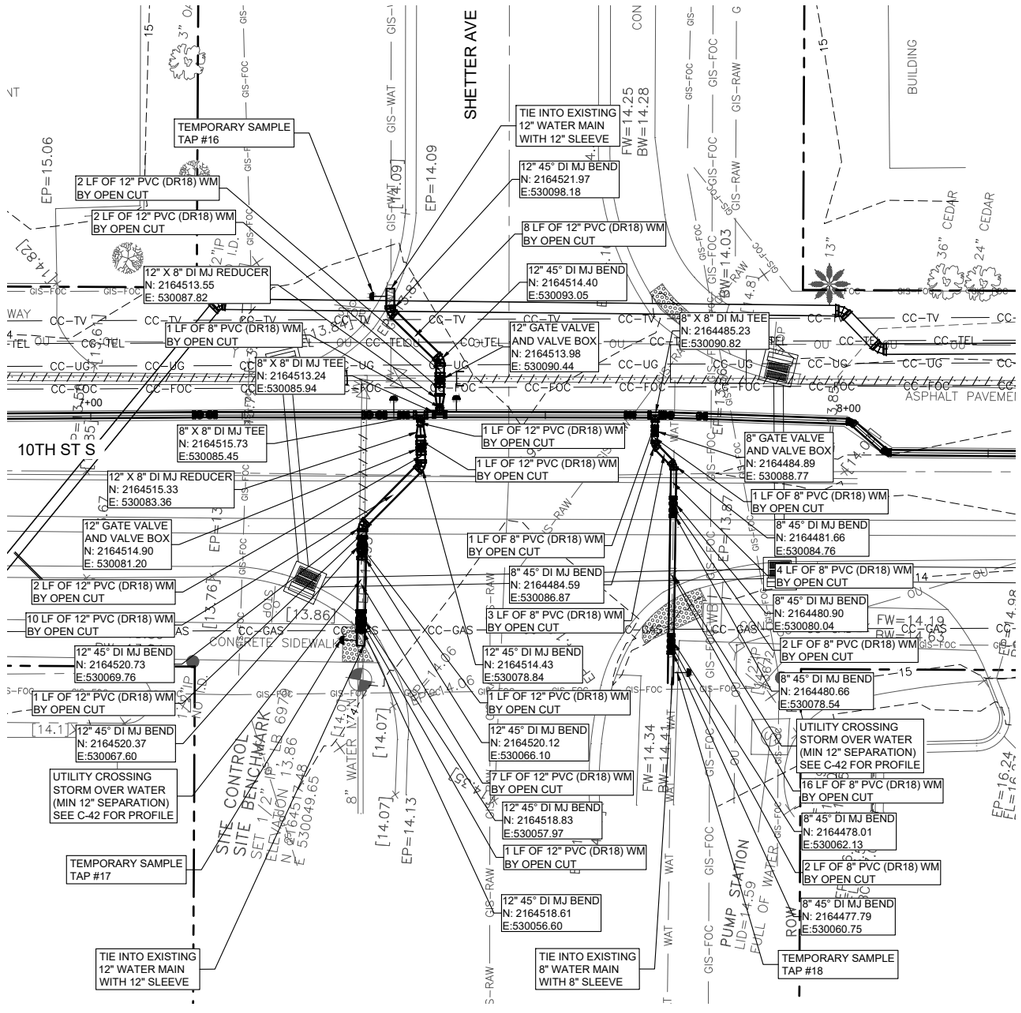
DESIGN	DRAWN
MRK	BRH
JOB #	19-1023
ISSUE DATE	SEPTEMBER 2025
ISSUE	BID

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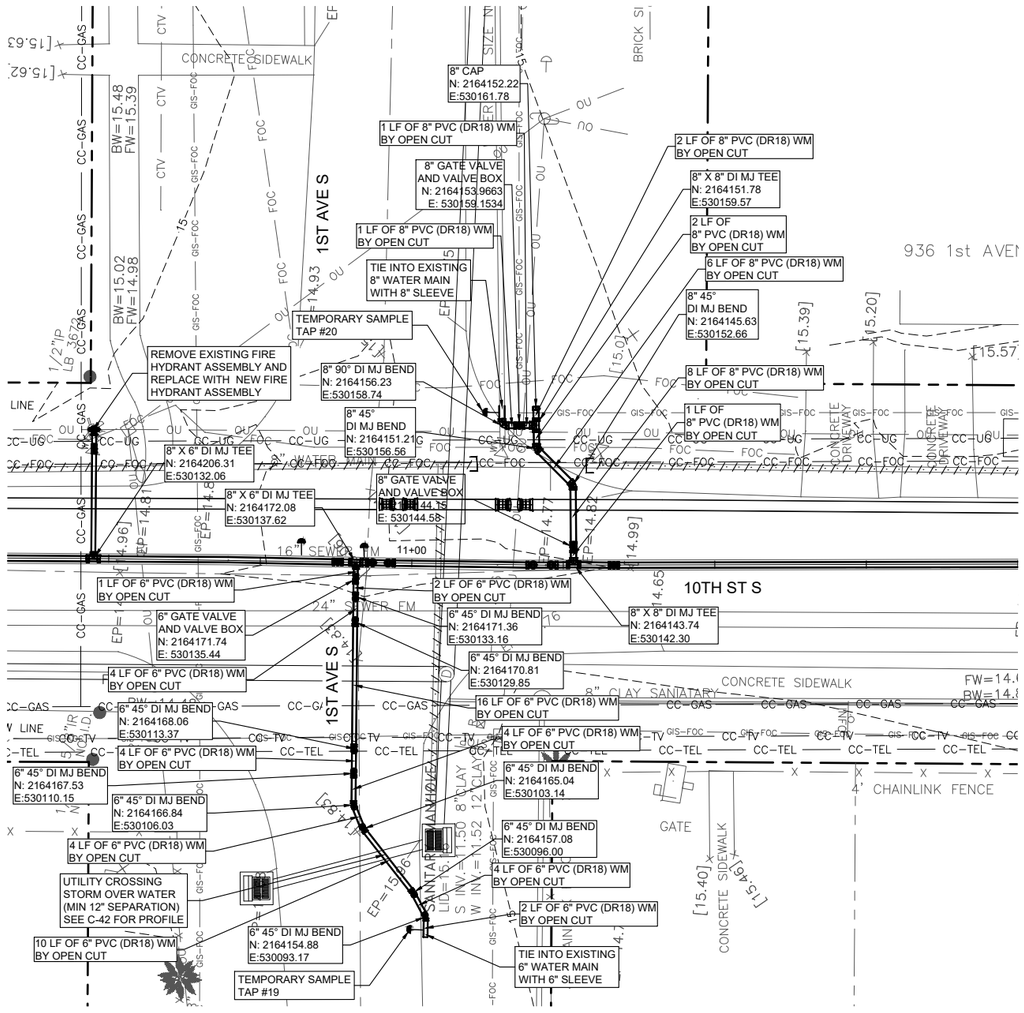
DRAWING NUMBER
C-18

CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II

TIE-IN DETAIL A



TIE-IN DETAIL B



SURVEY NOTES PER SHEET G-2:

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

WATERMAIN REPLACEMENT - DETAIL

CITY OF JACKSONVILLE BEACH, FL

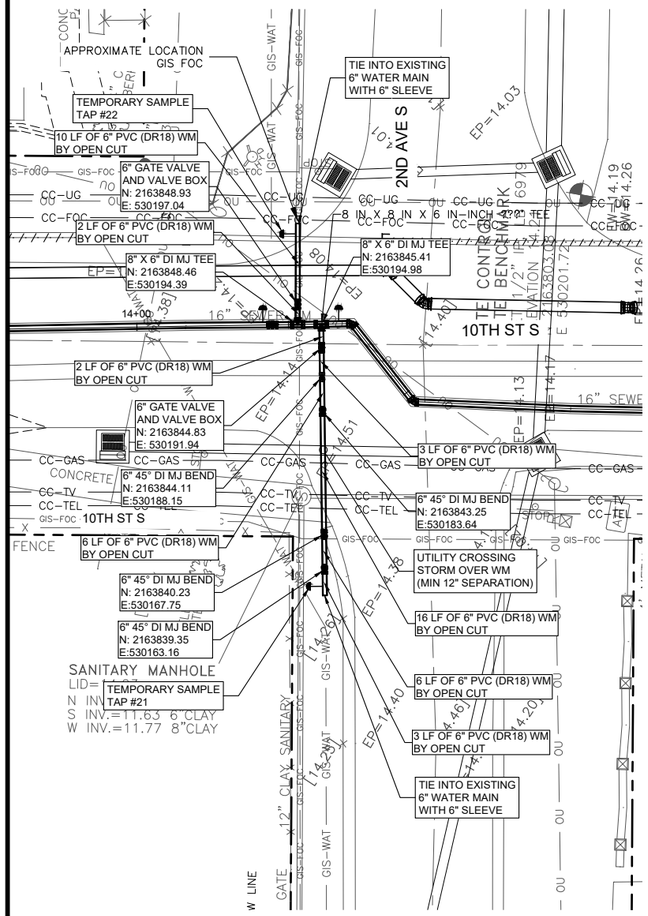
DESIGN	DRAWN	JOB #	ISSUE DATE	ISSUE
MRK	BRH	19-1023	SEPTEMBER 2025	BID

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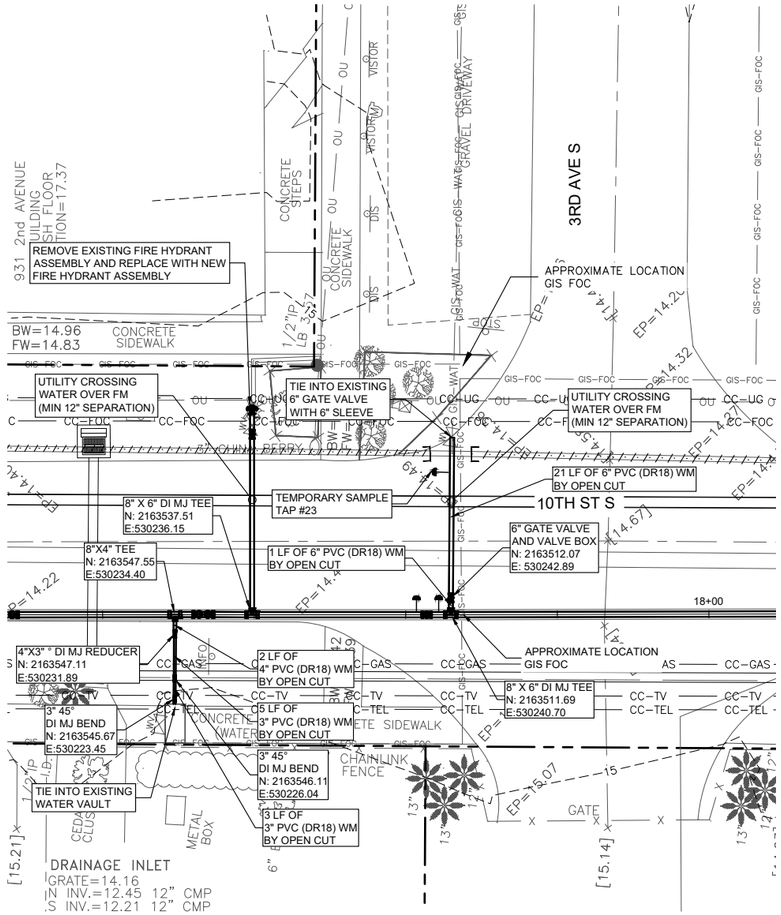
DRAWING NUMBER
C-19

CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II

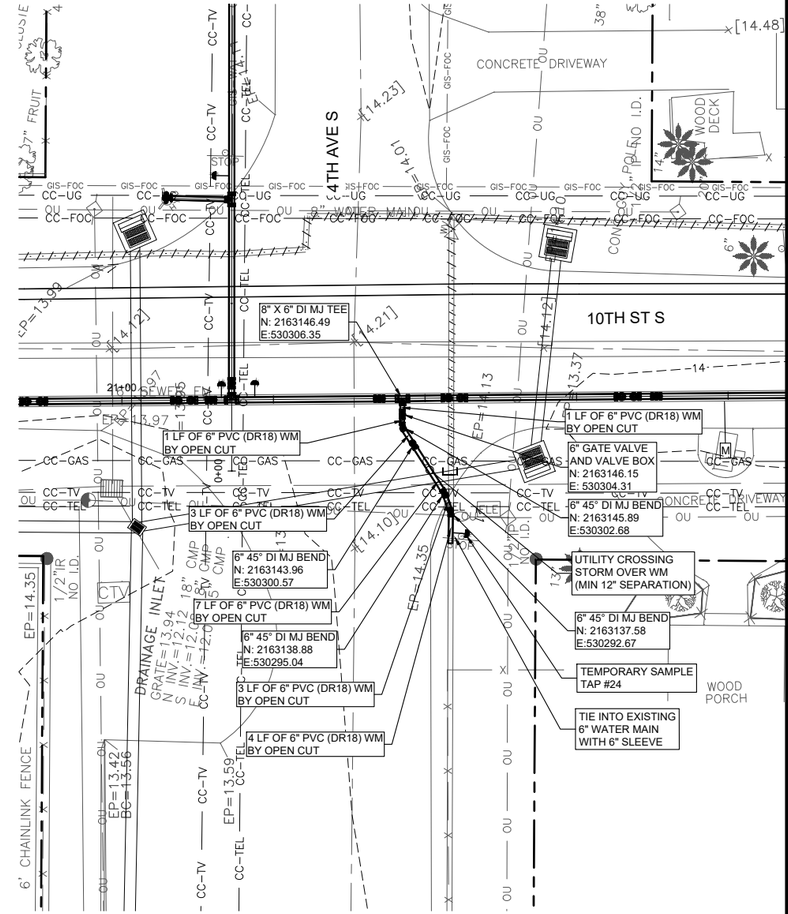
TIE-IN DETAIL C



TIE-IN DETAIL D



TIE-IN DETAIL E



SURVEY NOTES PER SHEET G-2:

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10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II

WATERMAIN REPLACEMENT - DETAIL

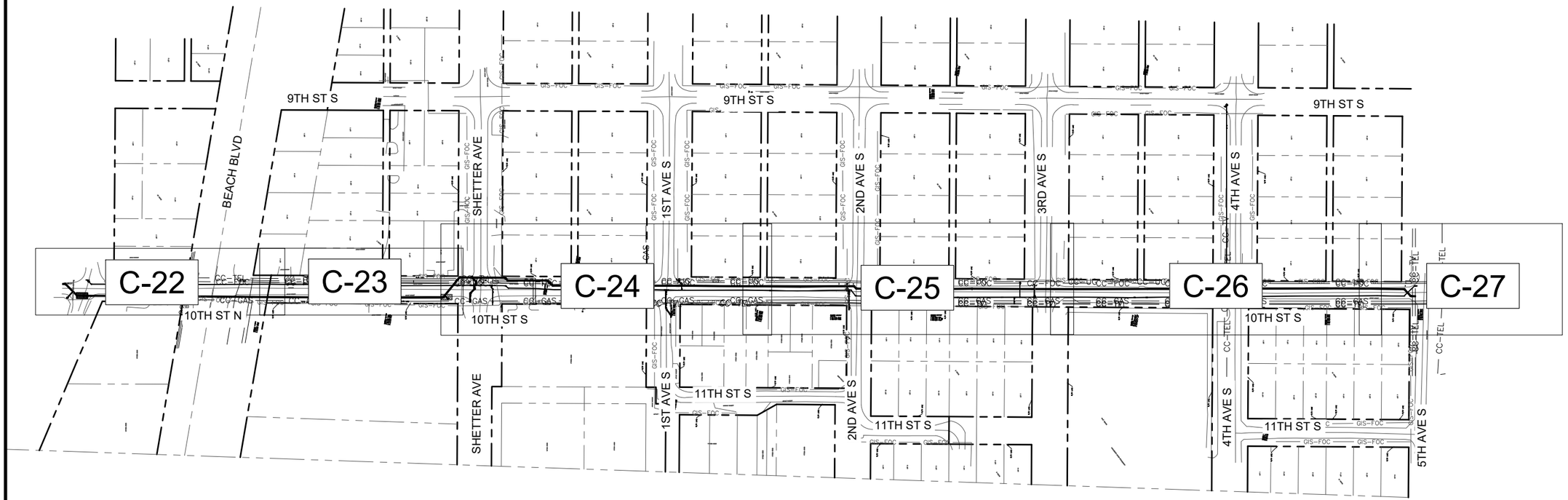
CITY OF JACKSONVILLE BEACH, FL.

DESIGN	DRAWN	JOB #	ISSUE DATE	ISSUE
MRK	BRH	19-1023	SEPTEMBER 2025	BID

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DRAWING NUMBER C-20

CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II



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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

FORCEMAIN REPLACEMENT- KEY MAP

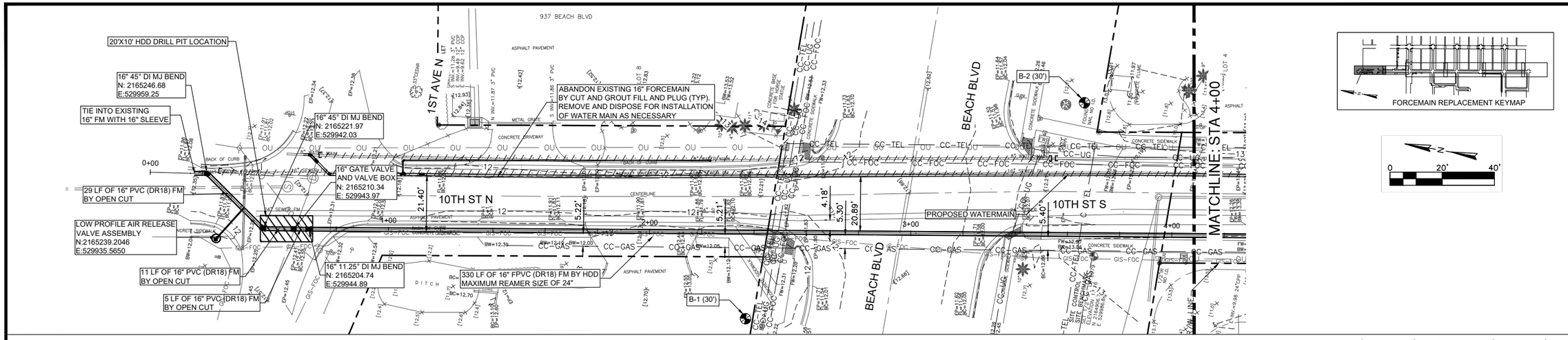
CITY OF JACKSONVILLE BEACH, FL

DESIGN	MRK	DRAWN	BRH
JOB #	19-1023	ISSUE DATE	SEPTEMBER 2025
ISSUE	BID		

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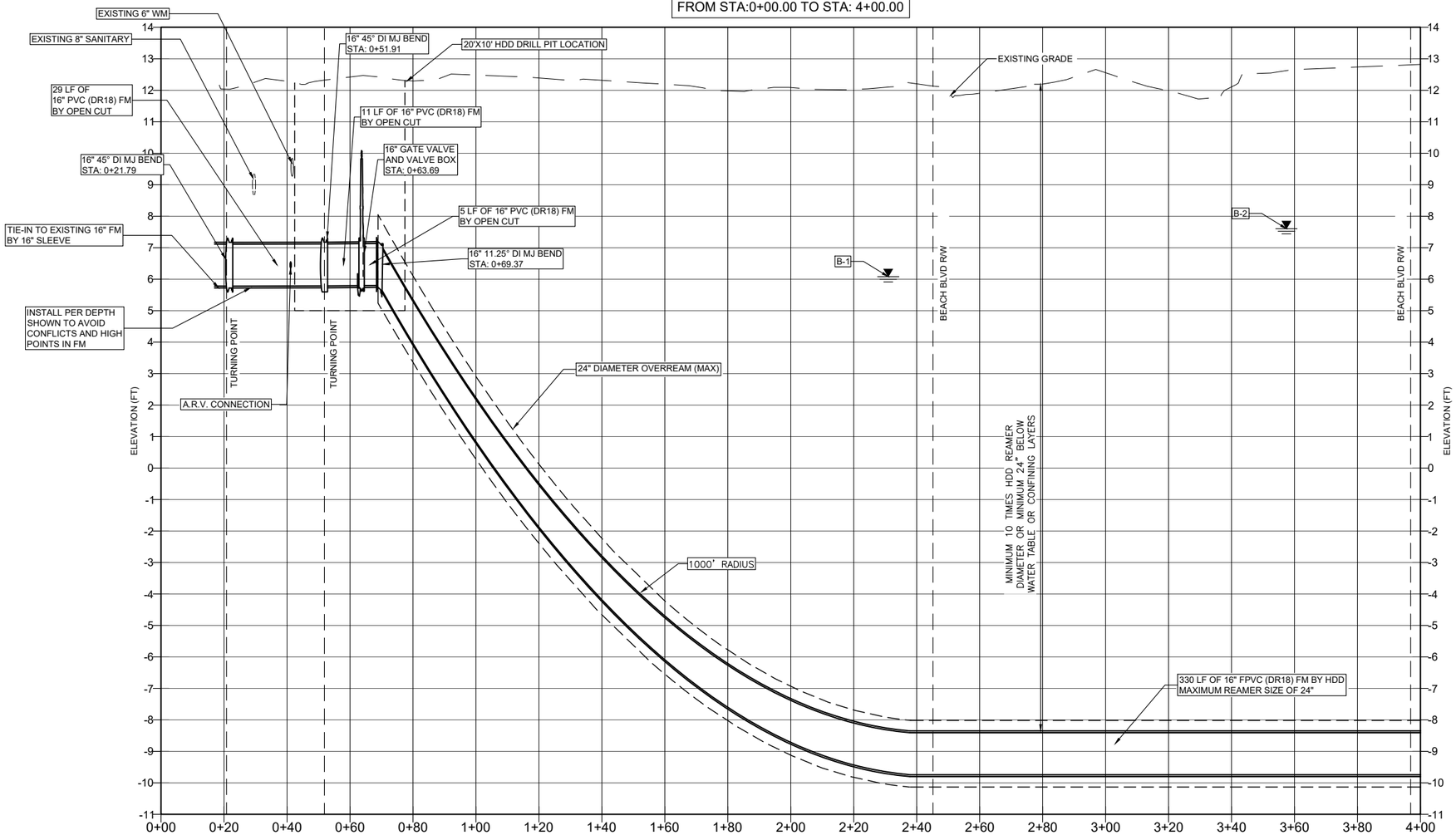
DRAWING NUMBER
C-21 - KEY

CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II





PROPOSED FORCEMAIN PROFILE FROM STA:0+00.00 TO STA: 4+00.00



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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

FORCEMAIN REPLACEMENT- HDD

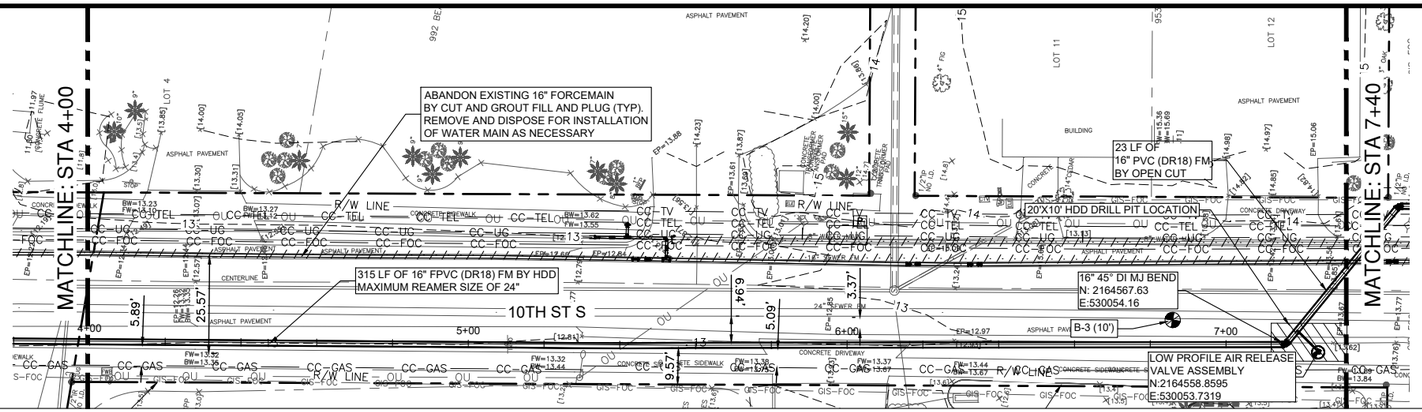
CITY OF JACKSONVILLE BEACH, FL

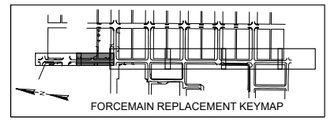
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MRK	BRH
JOB #	19-1023
ISSUE DATE	SEPTEMBER 2025
ISSUE	BID

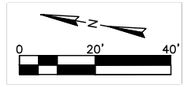
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DRAWING NUMBER
C-22

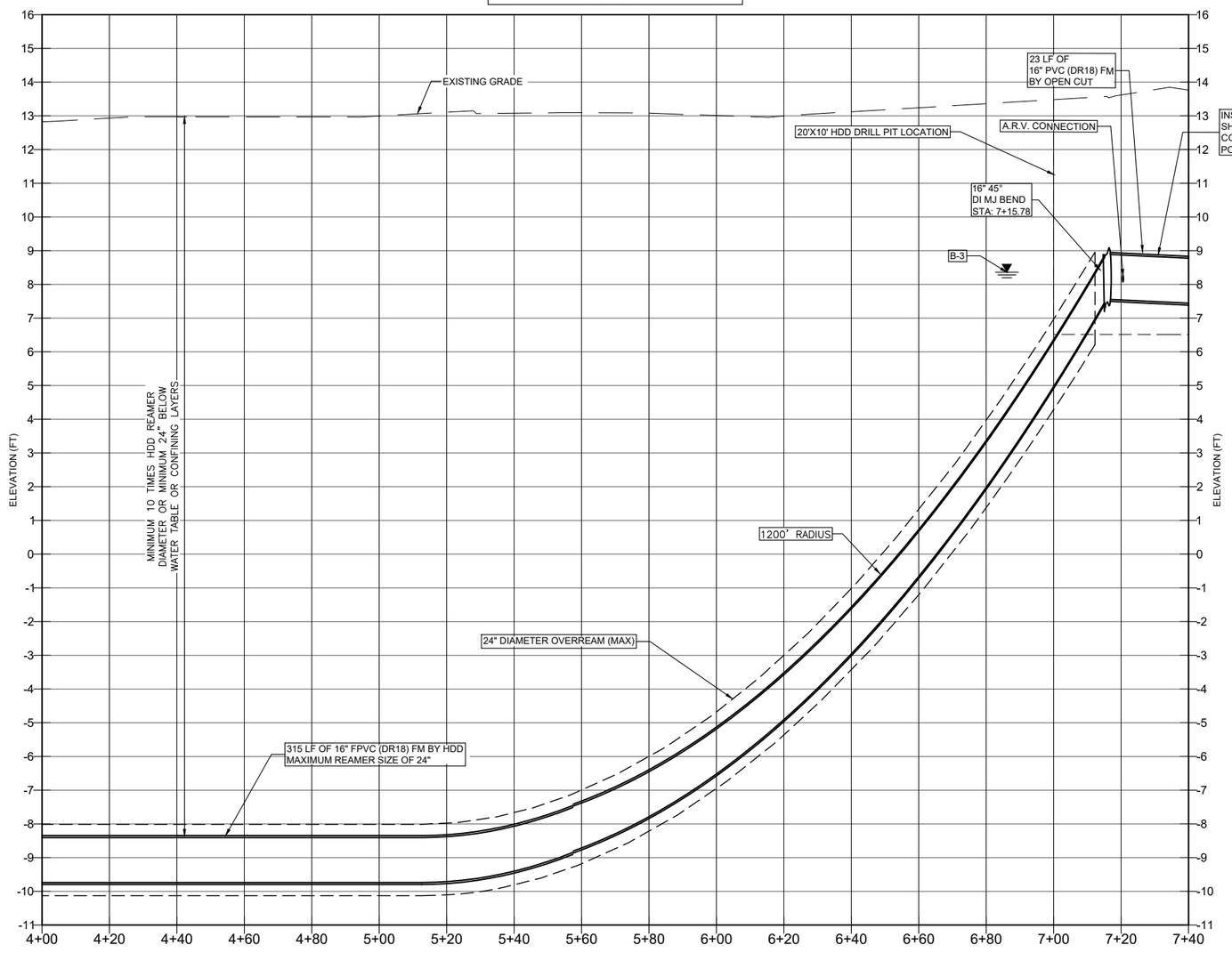
CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II

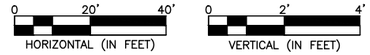






PROPOSED FORCEMAIN PROFILE FROM STA:4+00.00 TO STA: 7+40.00





SURVEY NOTES PER SHEET G-2:

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

FORCEMAIN REPLACEMENT- HDD

CITY OF JACKSONVILLE BEACH, FL

DESIGN	DRAWN
MRK	BRH
JOB #	19-1023
ISSUE DATE	SEPTEMBER 2025
ISSUE	BID

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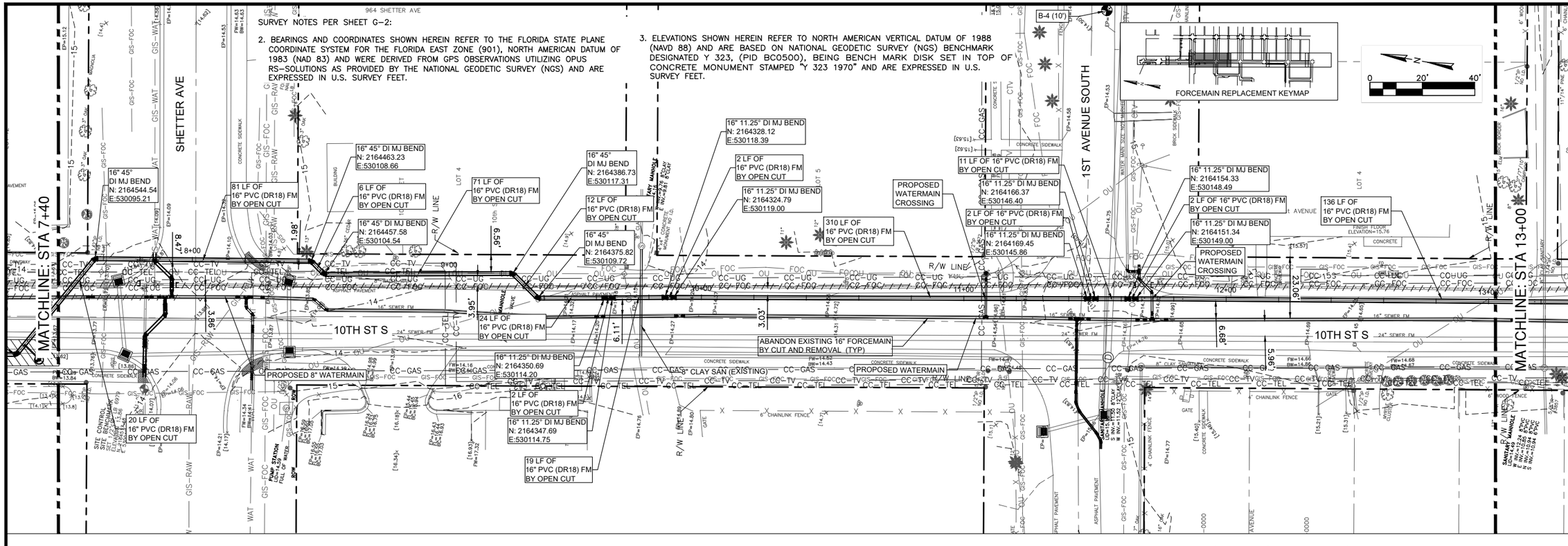
DRAWING NUMBER
C-23

CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II

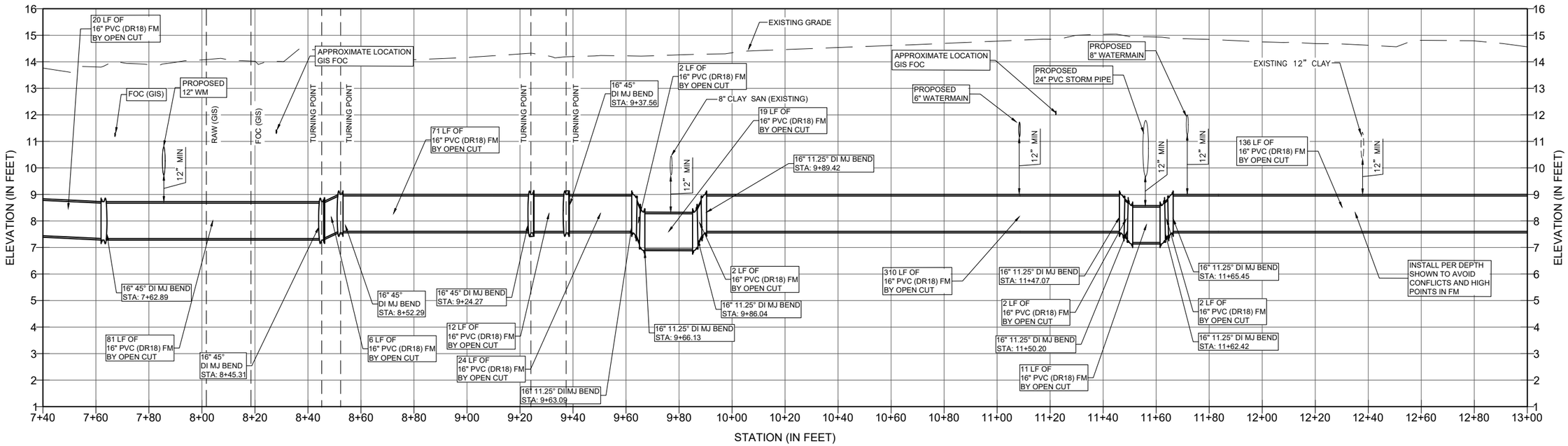
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PROPOSED FORCEMAIN PROFILE
FROM STA: 7+40.00 TO STA: 13+00.00



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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

FORCEMAIN REPLACEMENT

CITY OF JACKSONVILLE BEACH, FL

DESIGN	DRAWN	JOB #	ISSUE DATE	ISSUE
MRK	BRH	19-1023	SEPTEMBER 2025	BID

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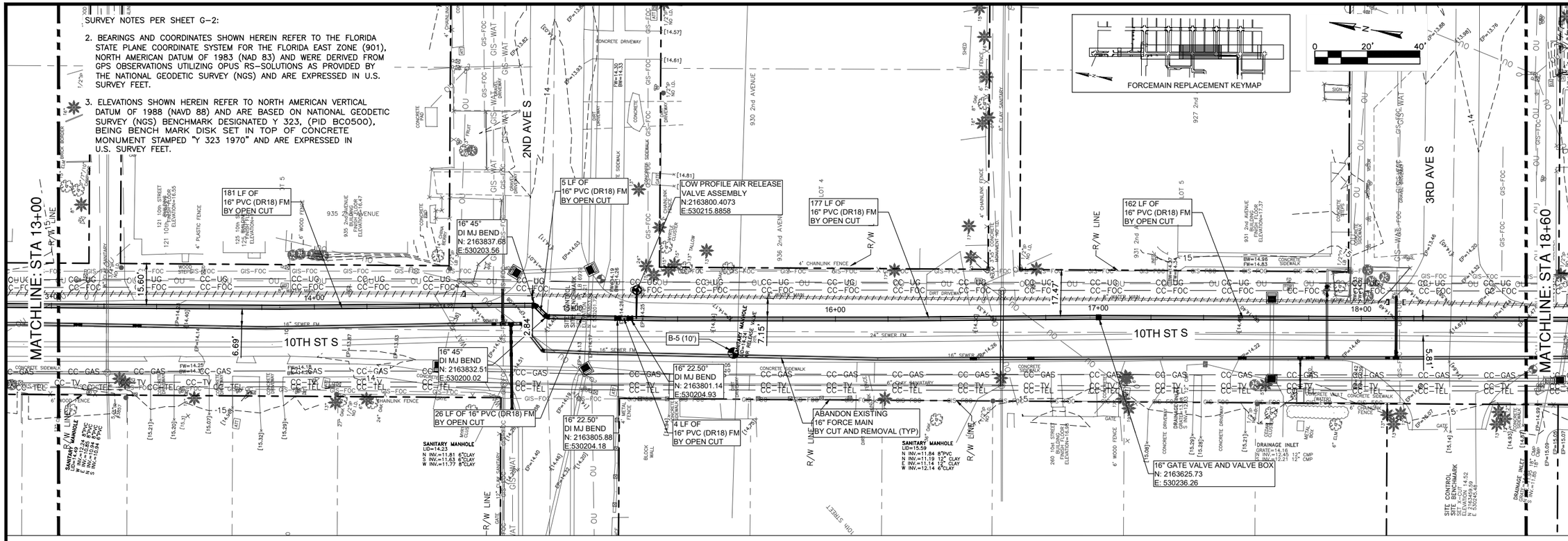
DRAWING NUMBER
C-24

CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II

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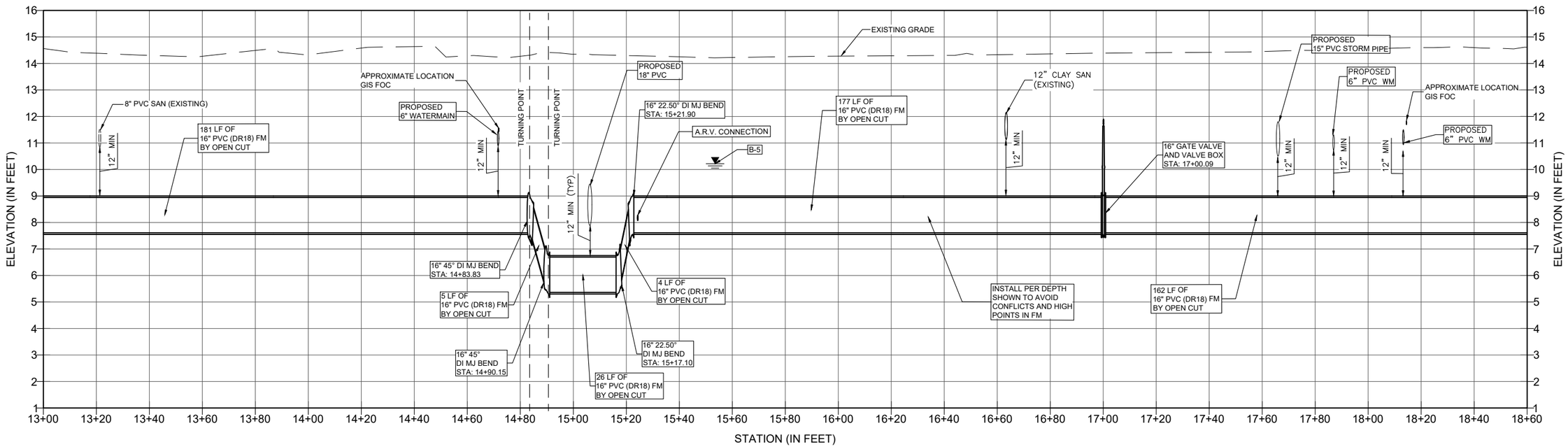
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PROPOSED FORCEMAIN PROFILE
FROM STA: 13+00.00 TO STA: 18+60.00

HORIZONTAL (IN FEET) 0 20' 40'

VERTICAL (IN FEET) 0 2' 4'



MICHAEL R. KLINK LICENSE No. 71840 STATE OF FLORIDA PROFESSIONAL ENGINEER

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

FORCEMAIN REPLACEMENT

CITY OF JACKSONVILLE BEACH, FL

DESIGN	DRAWN			
MRK	BRH			
JOB #	19-1023	ISSUE DATE	SEPTEMBER 2025	ISSUE BID

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DRAWING NUMBER
C-25

CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II

LAST EDITED BY: BRIAN HAMIL

CAD FILE: R:\19-1023 COJB 10TH ST\X\CDS\FORCEMAIN REPLACEMENT.DWG

PLOT DATE AND TIME: 9/26/2025 9:00:38 AM

SURVEY NOTES PER SHEET G-2:

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MATCHLINE: STA 18+60

MATCHLINE: STA 24+20

10TH ST S

4TH AVE S

932 3rd AVENUE

309 10th STREET

321 10th STREET

925 4th AVENUE

936 4th AVENUE

938 4th AVENUE BUILDING

LOT 4

LOT 5

560 LF OF 16" PVC (DR18) FM BY OPEN CUT

PROPOSED WATERMAIN

ABANDON EXISTING 16" FM BY CUT & REMOVAL (TYP)

B-6 (10')

FORCEMAIN REPLACEMENT KEYMAP

0 20' 40'

PROPOSED FORCEMAIN PROFILE
FROM STA: 18+60.00 TO STA: 24+20.00

HORIZONTAL (IN FEET) 0 20' 40'

VERTICAL (IN FEET) 0 2' 4'

EXISTING GRADE

PROPOSED 15" PVC STORM PIPE

8" CLAY SAN (EXISTING)

PROPOSED 8" PVC WM

8" PVC

12" MIN

B-6

560 LF OF 16" PVC (DR18) FM BY OPEN CUT

INSTALL PER DEPTH SHOWN TO AVOID CONFLICTS AND HIGH POINTS IN FM

ELEVATION (IN FEET)

STATION (IN FEET)

18+60 18+80 19+00 19+20 19+40 19+60 19+80 20+00 20+20 20+40 20+60 20+80 21+00 21+20 21+40 21+60 21+80 22+00 22+20 22+40 22+60 22+80 23+00 23+20 23+40 23+60 23+80 24+00 24+20

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

FORCEMAIN REPLACEMENT

CITY OF JACKSONVILLE BEACH, FL

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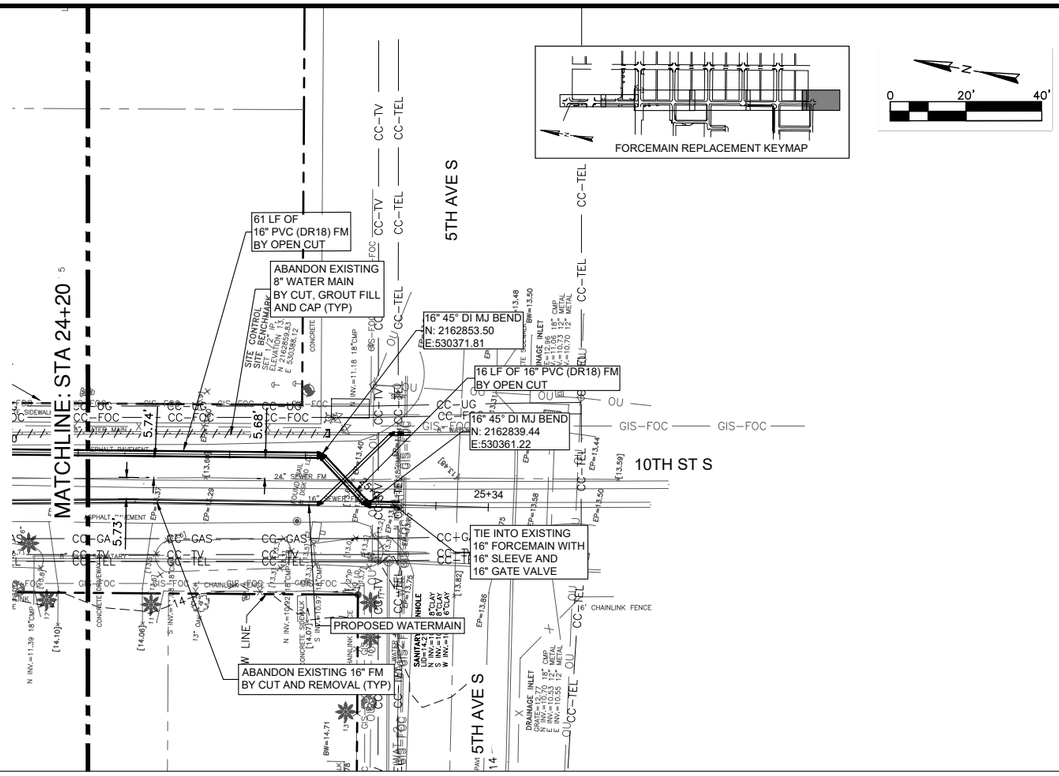
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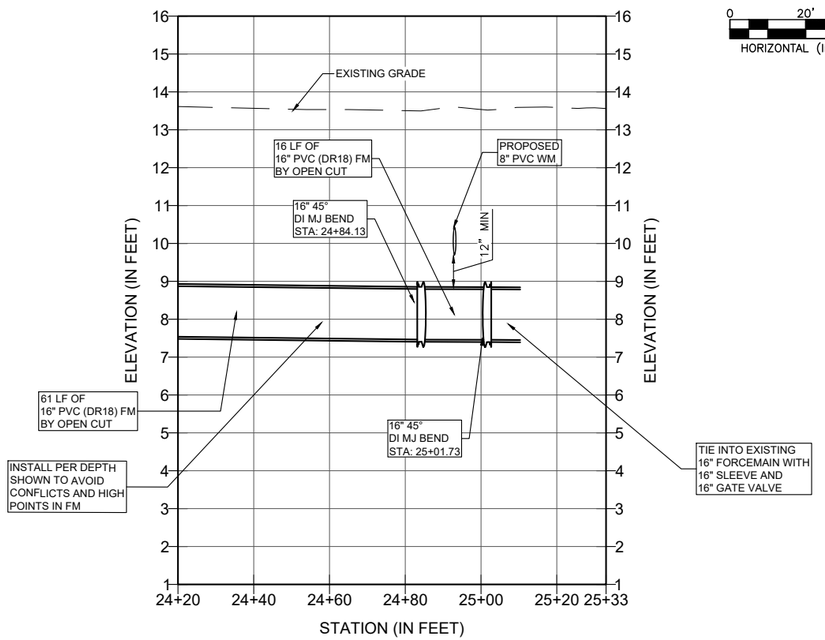
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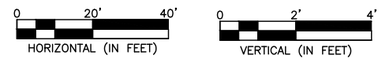
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PROPOSED FORCEMAIN PROFILE
FROM STA: 24+20.00 TO STA: 25+33.00





SURVEY NOTES PER SHEET G-2:

2. BEARINGS AND COORDINATES SHOWN HEREIN REFER TO THE FLORIDA STATE PLANE COORDINATE SYSTEM FOR THE FLORIDA EAST ZONE (901), NORTH AMERICAN DATUM OF 1983 (NAD 83) AND WERE DERIVED FROM GPS OBSERVATIONS UTILIZING OPUS RS-SOLUTIONS AS PROVIDED BY THE NATIONAL GEODETIC SURVEY (NGS) AND ARE EXPRESSED IN U.S. SURVEY FEET.

3. ELEVATIONS SHOWN HEREIN REFER TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) AND ARE BASED ON NATIONAL GEODETIC SURVEY (NGS) BENCHMARK DESIGNATED Y 323, (PID BC0500), BEING BENCH MARK DISK SET IN TOP OF CONCRETE MONUMENT STAMPED "Y 323 1970" AND ARE EXPRESSED IN U.S. SURVEY FEET.

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

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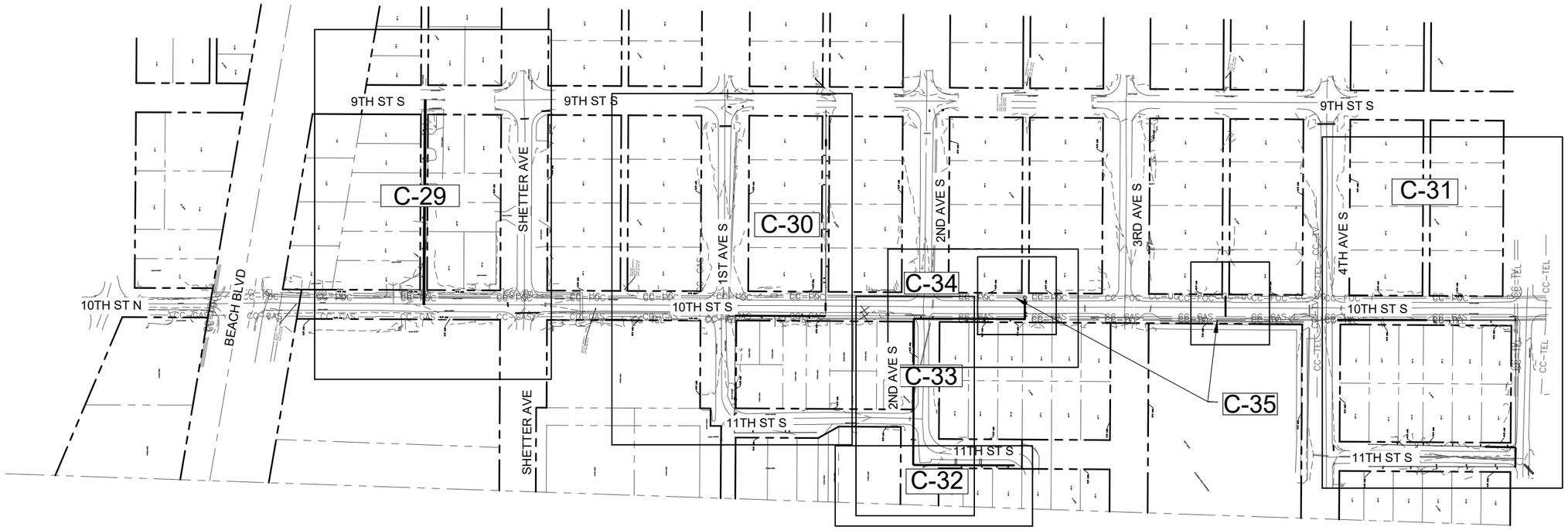
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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

GRAVITY MAIN REPLACEMENT - KEY MAP

CITY OF JACKSONVILLE BEACH, FL

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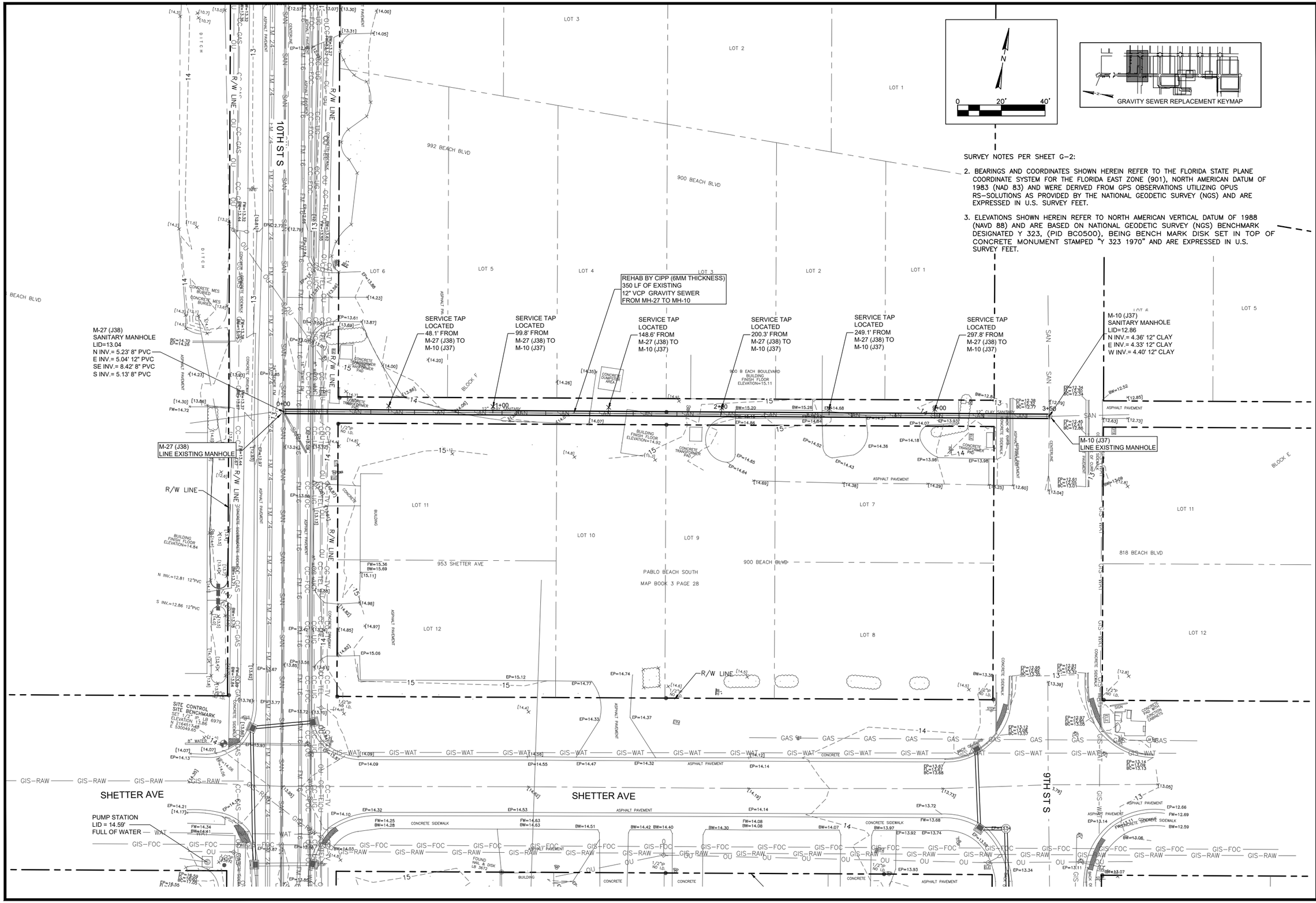
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CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

GRAVITY MAIN REPLACEMENT

CITY OF JACKSONVILLE BEACH, FL.

DESIGN	DRAWN
MRK	BRH

JOB #	ISSUE DATE	ISSUE
19-1023	SEPTEMBER 2025	BID

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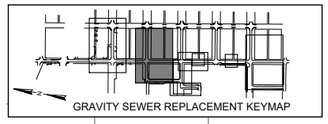
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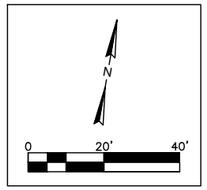
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M-25 (J38)
REMOVE EXISTING BRICK MANHOLE. FURNISH AND INSTALL
TYPE "C" 4' DIAMETER MANHOLE
TOP EL: 15.23
N. INV = 12.33
E. INV = 12.05
S. INV = 12.05

REMOVE APPROX. 10 LF OF EXISTING 8" VCP GRAVITY MAIN AND REPLACE WITH 10 LF OF 8" PVC (SDR-26) GRAVITY MAIN STARTING 20' FROM M-25 (J38) TO M-24 (J38)

SERVICE TAP LOCATED 33.5' FROM M-25 (J38) TO M-24 (J38)

SERVICE TAP LOCATED 108.1' FROM STUBOUT TO M-25 (J38)

REMOVE APPROX. 2 LF OF EXISTING 8" VCP GRAVITY MAIN AND REPLACE WITH 2 LF OF 8" PVC (SDR-26) GRAVITY MAIN CENTERED AROUND THE SERVICE TAP APPROX. 56.8' FROM M-25 (J38) TO M-24 (J38)

SERVICE TAP LOCATED 56.8' FROM M-25 (J38) TO M-24 (J38)

SERVICE TAP LOCATED 52.9' FROM STUBOUT TO M-25 (J38)

SERVICE TAP LOCATED 46.2' FROM STUBOUT TO M-25 (J38)

STUB OUT

NO DATA

M-01 (J44)
REMOVE EXISTING BRICK MANHOLE. FURNISH AND INSTALL TYPE "C" 4' DIAMETER MANHOLE.
LID = 14.49'
W INV. = 12.24' 8" PVC
E INV. = 10.85' 8" PVC
N INV. = 10.94' 8" PVC
S INV. = 10.94' 6" PVC

REMOVE APPROX. 12 LF OF EXISTING 8" VCP AND PVC GRAVITY MAIN AND REPLACE WITH 12 LF OF 8" PVC (SDR-26) GRAVITY MAIN STARTING APPROX. 8.5' FROM M-01 TO M-05

M-23 (J38)
SANITARY MANHOLE
LID=14.16
W INV.=9.76 8" CLAY
E INV.=9.81 8"CLAY

M-24 (J38)
LINE EXISTING MANHOLE
SANITARY MANHOLE
LID = 15.16'
S INV. = 11.50' 8" CLAY
W INV. = 11.52' 12" CLAY

REMOVE 153 LF OF EXISTING 8" VCP GRAVITY MAIN AND REPLACE WITH 153 LF OF 8" PVC (SDR-26) GRAVITY MAIN FROM M-24 (J38) TO M-01 (J44)

SEE SECTION D THIS SHEET

GRAVITY SEWER MAINS TO BE REPLACED SHALL HAVE A CONSISTENT SLOPE FROM MANHOLE TO MANHOLE MEETING FDEP REQUIREMENTS OF 0.40% SLOPE FOR 8" GRAVITY MAINS AND 0.60% SLOPE FOR 6" GRAVITY MAINS WHERE AT ALL POSSIBLE (TYP)

PIPE PUNCTURE THROUGH SANITARY PIPE 114' FROM M-24 (J38) TO M-01 (J44)

PIPE PUNCTURE THROUGH SANITARY PIPE 27.9' FROM M-01 (J44) TO M-24 (J38)

SERVICE TAP LOCATED 57.5' FROM M-01 (J44) TO M-05 (J43)

SERVICE TAP LOCATED 64.9' FROM M-01 (J44) TO M-05 (J43)

SERVICE TAP LOCATED 84.8' FROM M-01 (J44) TO M-05 (J43)

SERVICE TAP LOCATED 144.9' FROM M-01 (J44) TO M-05 (J43)

SERVICE TAP LOCATED 149.1' FROM M-01 (J44) TO M-05 (J43)

SERVICE TAP LOCATED 224.5' FROM M-01 (J44) TO M-05 (J43)

SERVICE TAP LOCATED 239.6' FROM M-01 (J44) TO M-05 (J43)

SERVICE TAP LOCATED 264.9' FROM M-01 (J44) TO M-05 (J43)

SERVICE TAP LOCATED 274.6' FROM M-01 (J44) TO M-05 (J43)

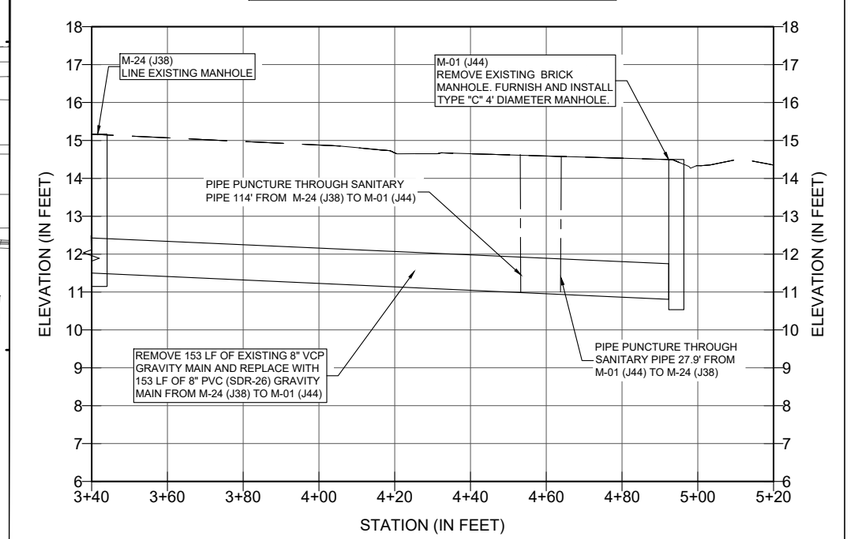
REMOVE APPROX. 10 LF OF EXISTING 8" VCP AND PVC GRAVITY MAIN AND REPLACE WITH 10 LF OF 8" PVC (SDR-26) GRAVITY MAIN STARTING APPROX. 290' FROM M-01 (J44) TO M-05 (J43)

M-05 (J43)
NO DATA

M-05 (J43)
LINE EXISTING MANHOLE

STORM MANHOLE
LID=12.69
N INV.=7.74 24"RCP
S INV.=7.84 24"RCP
CONFLICT PIPE 14" PVC/CLF
TOP OF PIPE ELEV=10.84

GRAVITY SEWER REPLACEMENT SECTION D
FROM 3+40.00 TO 5+20.00



SECTION D

MICHAEL R. KLINK
LICENSE
No. 71840
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

GRAVITY MAIN REPLACEMENT

CITY OF JACKSONVILLE BEACH, FL

DESIGN	DRAWN	JOB #	ISSUE DATE	ISSUE
MRK	BRH	19-1023	SEPTEMBER 2025	BID

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CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II

M-07 (J44)
REMOVE EXISTING BRICK MANHOLE. FURNISH AND INSTALL TYPE "C" 4' DIAMETER MANHOLE.
TOP EL: 14.46'
NW. INV = 11.81'
NE. INV = 11.71'
S. INV = 11.46'

REMOVE EXISTING SERVICE LATERAL CONNECTION 24' FROM M-07 (J44) TO M-03 (J50) AND REPLACE WITH NEW SERVICE LATERAL

SEE M-06 (J44) DETAIL THIS SHEET

M-06 (J44)
REMOVE EXISTING BRICK MANHOLE. FURNISH AND INSTALL TYPE "C" 4' DIAMETER MANHOLE. CONTRACTOR TO VERIFY TOP ELEVATION AND INVERTS.

M-06 DETAIL
(APPROXIMATE EL)
RIM EL: 14.36'
N INV: 12.28'
E INV: 12.28'
S INV: 12.28'

NTS

SERVICE TAP LOCATED 24' FROM M-07 (J44) TO M-03 (J50)

SERVICE TAP LOCATED 25.7' FROM M-07 (J44) TO M-03 (J50)

SERVICE TAP LOCATED 71.6' FROM M-07 (J44) TO M-03 (J50)

SERVICE TAP LOCATED 73.2' FROM M-07 (J44) TO M-03 (J50)

SERVICE TAP LOCATED 49.6' FROM M-06 (J44) TO M-02 (J50)

SERVICE TAP LOCATED 93.7' FROM M-06 (J44) TO M-02 (J50)

SERVICE TAP LOCATED 116.6' FROM M-07 (J44) TO M-03 (J50)

SERVICE TAP LOCATED 115' FROM M-07 (J44) TO M-03 (J50)

REMOVE EXISTING 2 LF OF 6" VCP GRAVITY MAIN AND REPLACE WITH 2 LF OF 6" PVC (SDR-26) GRAVITY MAIN STARTING AT APPROX. 124' FROM M-06 (J44) TO M-02 (J50)

SERVICE TAP LOCATED 143.7' FROM M-06 (J44) TO M-02 (J50)

SERVICE TAP LOCATED 168' FROM M-07 (J44) TO M-03 (J50)

SERVICE TAP LOCATED 166.6' FROM M-07 (J44) TO M-03 (J50)

SERVICE TAP LOCATED 191.6' FROM M-06 (J44) TO M-02 (J50)

REMOVE EXISTING 51 LF OF 6" VCP GRAVITY MAIN AND REPLACE WITH 51 LF OF 6" PVC (SDR-26) GRAVITY MAIN STARTING AT APPROX. 200' FROM M-06 TO M-02 (J50)

SERVICE TAP LOCATED 217.7' FROM M-07 (J44) TO M-03 (J50)

SERVICE TAP LOCATED 216.1' FROM M-07 (J44) TO M-03 (J50)

SERVICE TAP LOCATED 237.6' FROM M-06 (J44) TO M-02 (J50)

EXISTING 217 LF OF PIPE TO REMAIN

M-02 (J50)
SANITARY MANHOLE
LID = 14.13'
N INV. = 10.93' 8" CLAY
E INV. = 10.83' 6" CLAY
W INV. = 10.88' 6" CLAY

M-03 (J50)
SANITARY MANHOLE
LID =13.86'
INV. = UNK

STORM MANHOLE
TOP=14.16
N INV.=7.46 18"CMP

SITE CONTROL
SITE BENCHMARK
FOUND PP NAIL & DISK
ELEVATION 13.29
N 2162771.47
E 530115.49

STUB OUT
NO DATA

REMOVE EXISTING APPROX. 152 LF OF 8" VCP GRAVITY MAIN AND REPLACE WITH 152 LF OF 8" PVC (SDR-26) GRAVITY MAIN FROM M-08 (J44) TO STUB OUT. RESTORE SERVICE LATERALS AS NECESSARY

GRAVITY SEWER MAINS TO BE REPLACED SHALL HAVE A CONSISTENT SLOPE FROM MANHOLE TO MANHOLE MEETING FDEP REQUIREMENTS OF 0.40% SLOPE FOR 8" GRAVITY MAINS AND 0.60% SLOPE FOR 6" GRAVITY MAINS WHERE AT ALL POSSIBLE (TYP)

M-08 (J44)
SANITARY MANHOLE
LID = 14.13'
N INV. = 10.31' 8" PVC
S INV. = 10.42' 8" PVC
E INV. = 10.13' 8" PVC

SERVICE TAP LOCATED 12.7' FROM M-08 (J44) TO M-01 (J50)

SERVICE TAP LOCATED 38.3' FROM M-08 (J44) TO M-01 (J50)

M-01 (J50)
SANITARY MANHOLE
LID = 14.21'
N INV. = 10.48' 8" CLAY
S INV. = 10.51' 8" CLAY
W INV. = 10.54' 6" CLAY

DRAINAGE INLET
GRATE=12.77
N INV.=10.70 18" CMP
E INV.=10.53 12" METAL
E INV.=10.55 12" METAL

DRAINAGE INLET
GRATE=12.96
S INV.=11.06 18" CMP
W INV.=10.73 12" METAL
W INV.=10.70 12" METAL

SITE CONTROL
SITE BENCHMARK
SET 1/2" IP, LB 6979
ELEVATION 13.12
N 2162859.83
E 530388.12

GRAVITY SEWER REPLACEMENT KEYMAP

SURVEY NOTES PER SHEET G-2:

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4TH AVE S
10TH ST S
11TH ST S
5TH AVE S
LIMEROCK ROAD
936 4th AVENUE BUILDING
902 4th AVENUE
833 5th AVENUE
408 10th STREET
414 10th STREET
422 10th STREET
426 10th STREET
432 10th STREET
03 11th STREET
LOT 1
LOT 2
LOT 3
LOT 4
LOT 5
LOT 6
LOT 7
LOT 8
LOT 9
LOT 10
BLOCK 12
BLOCK 50

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

GRAVITY MAIN REPLACEMENT

CITY OF JACKSONVILLE BEACH, FL

DESIGN	DRAWN
MRK	BRH
JOB #	19-1023
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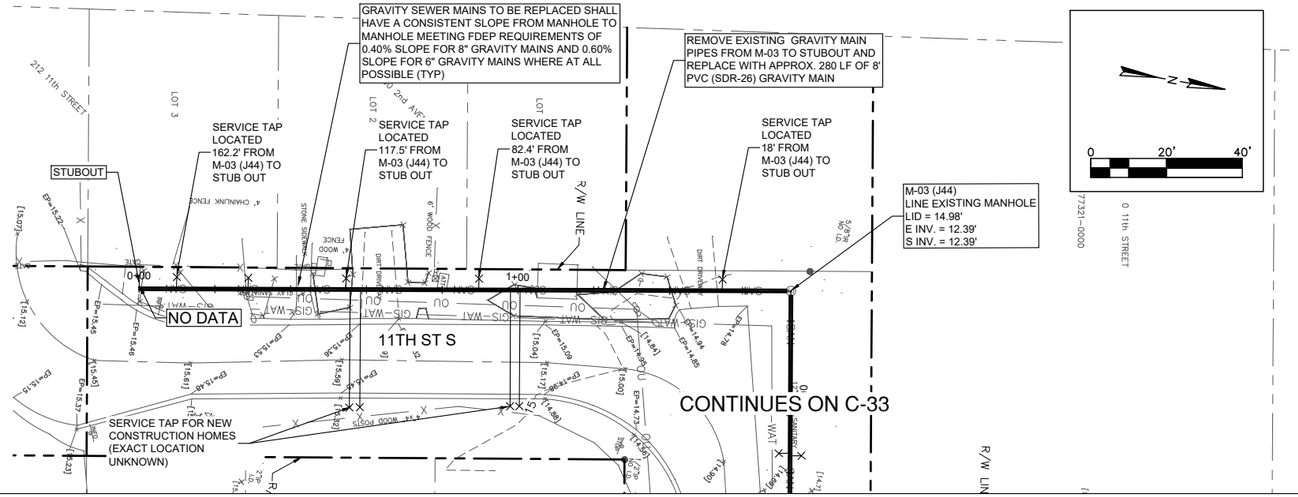
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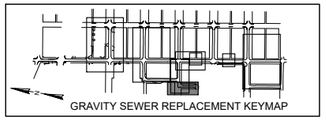
CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II

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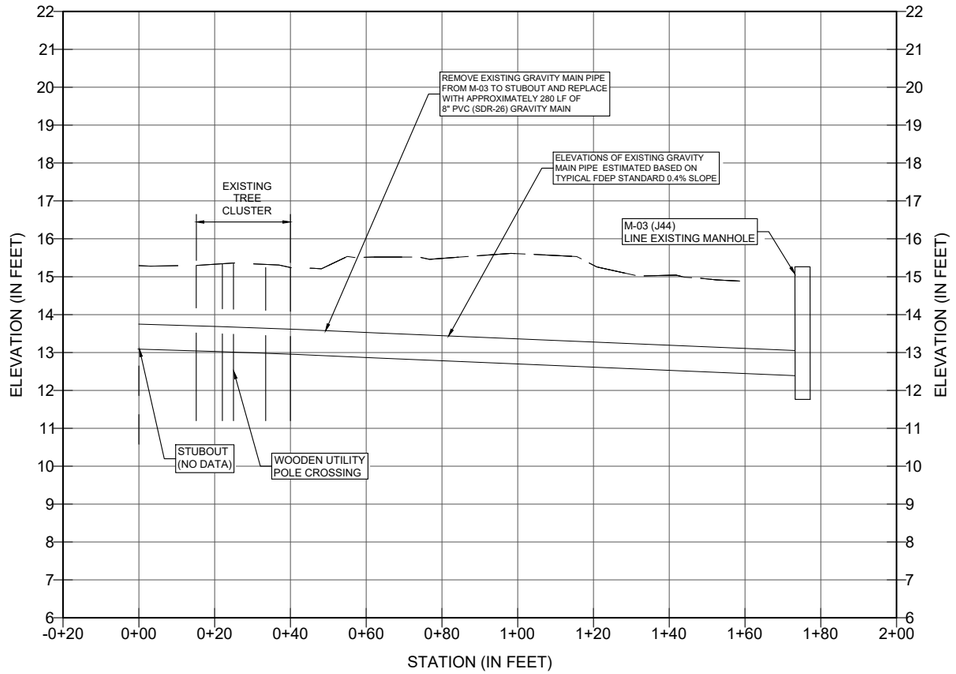




GRAVITY SEWER REPLACEMENT SECTION F
FROM -0+20.00 TO 2+00.00

0 20' 40'

0 2' 4'



SURVEY NOTES PER SHEET G-2:

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

GRAVITY MAIN REPLACEMENT

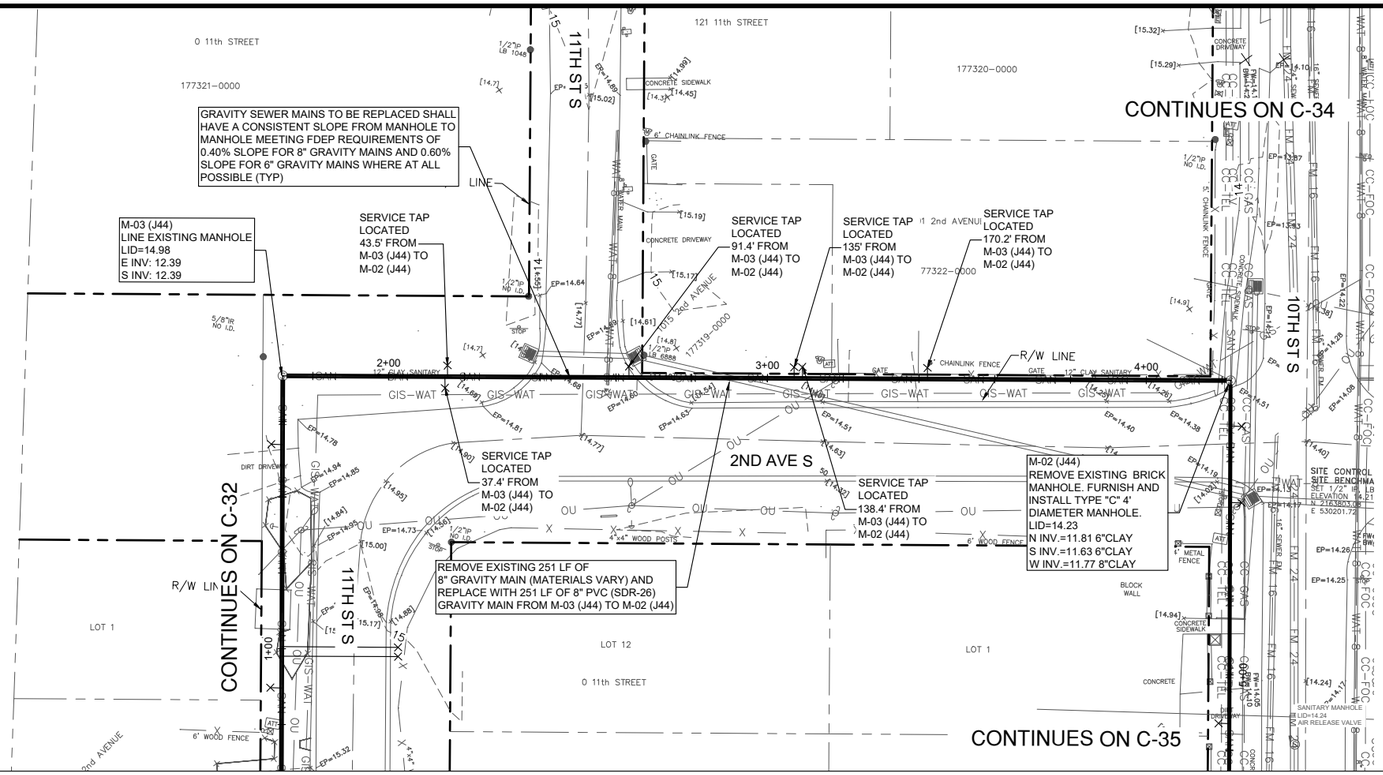
CITY OF JACKSONVILLE BEACH, FL

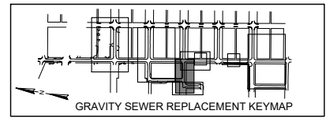
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MRK	BRH	19-1023	SEPTEMBER 2025	BID

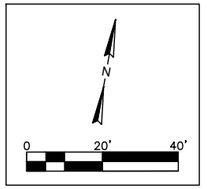
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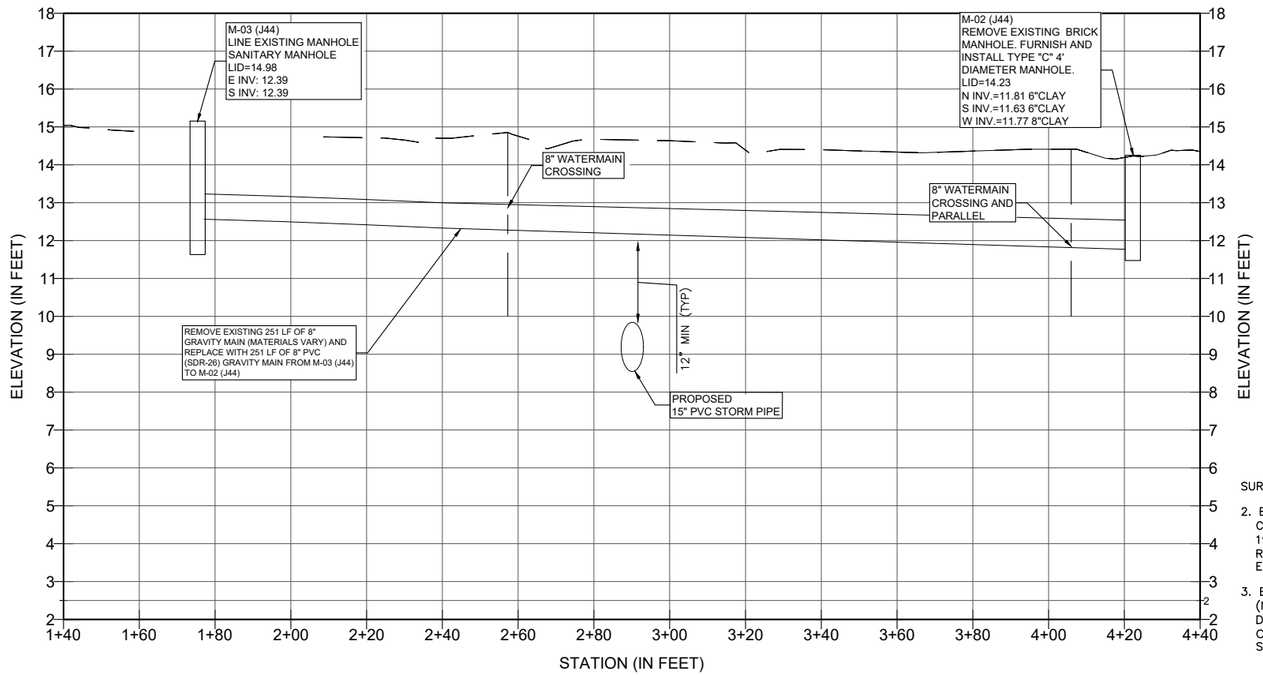
CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II

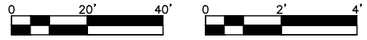






GRAVITY SEWER REPLACEMENT SECTION G
FROM 1+40.00 TO 4+40.00





SURVEY NOTES PER SHEET G-2:

2. BEARINGS AND COORDINATES SHOWN HEREIN REFER TO THE FLORIDA STATE PLANE COORDINATE SYSTEM FOR THE FLORIDA EAST ZONE (901), NORTH AMERICAN DATUM OF 1983 (NAD 83) AND WERE DERIVED FROM GPS OBSERVATIONS UTILIZING OPUS RS-SOLUTIONS AS PROVIDED BY THE NATIONAL GEODETIC SURVEY (NGS) AND ARE EXPRESSED IN U.S. SURVEY FEET.

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STATE OF FLORIDA
PROFESSIONAL ENGINEER

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

GRAVITY MAIN REPLACEMENT

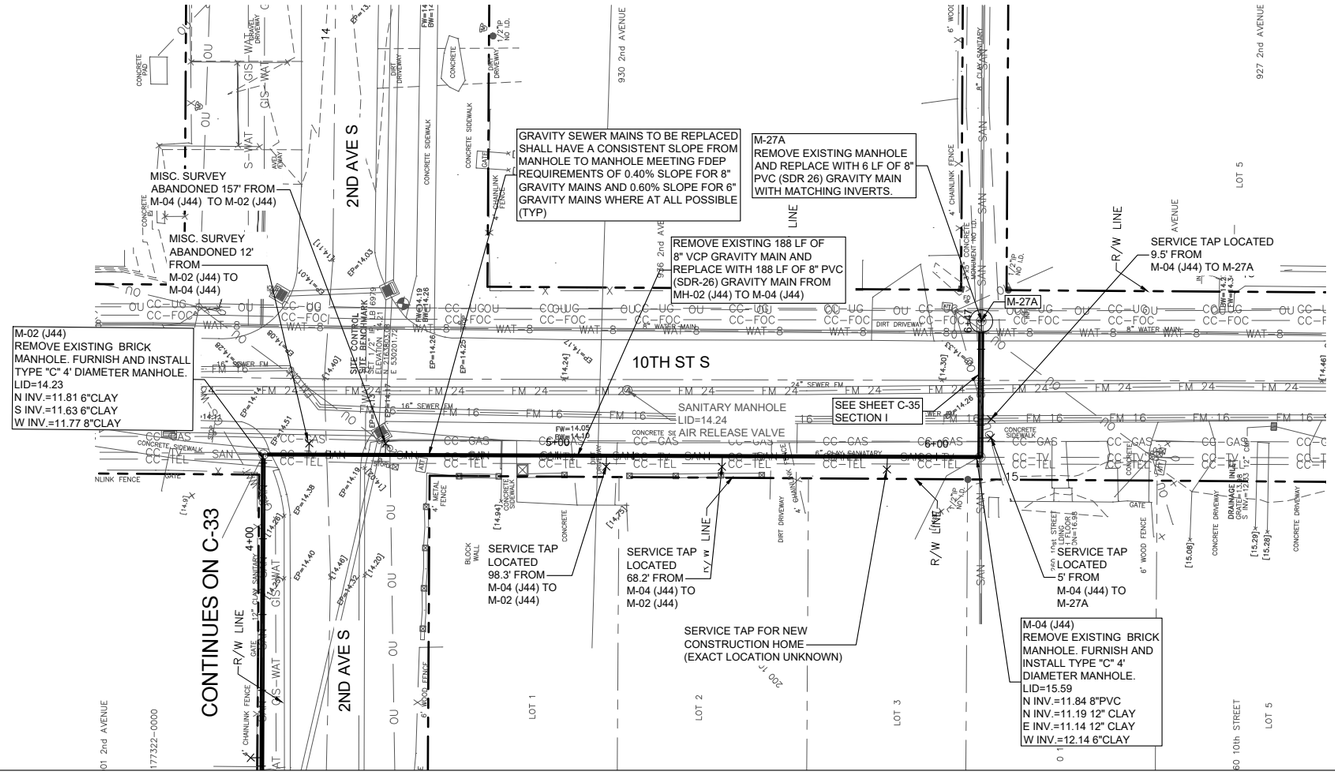
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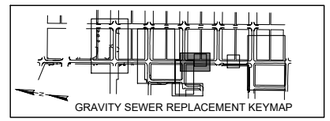
DESIGN MRK	DRAWN BRH	JOB # 19-1023	ISSUE DATE SEPTEMBER 2025	ISSUE BID

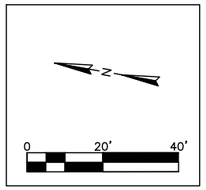
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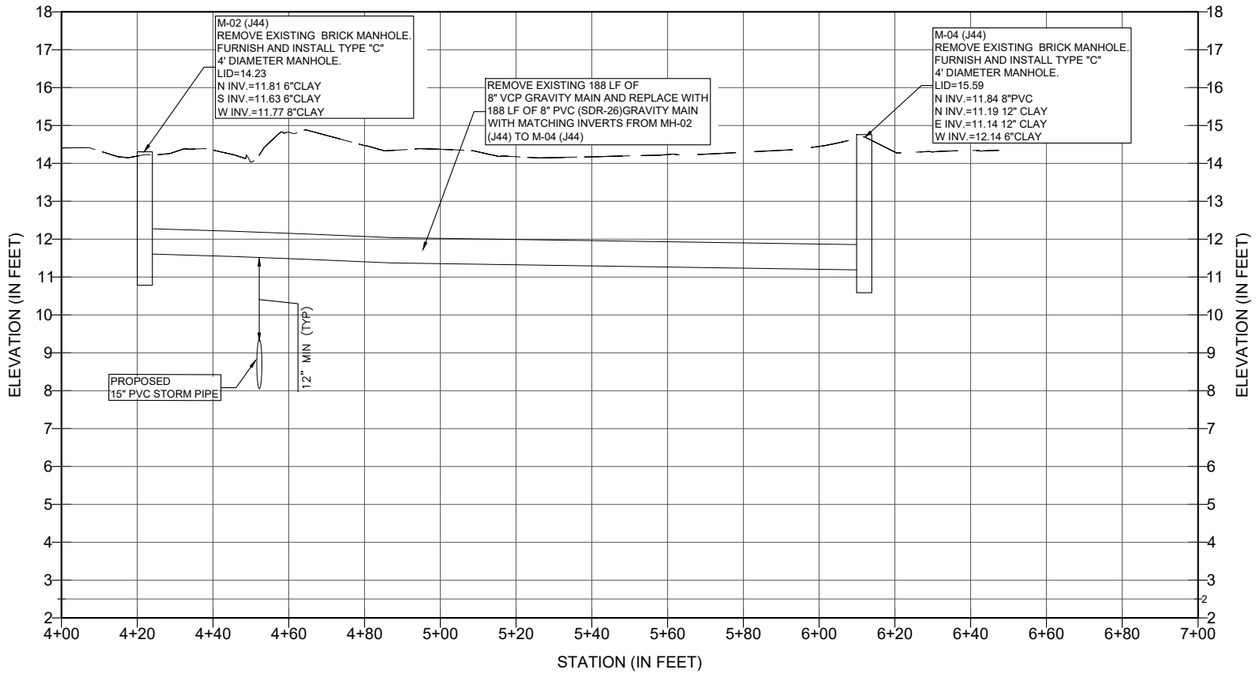
CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II







GRAVITY SEWER REPLACEMENT SECTION H FROM 4+00.00 TO 7+00.00



SURVEY NOTES PER SHEET G-2:

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10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II

GRAVITY MAIN REPLACEMENT

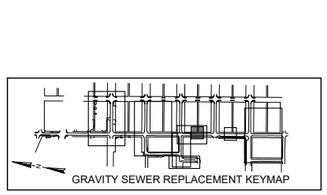
CITY OF JACKSONVILLE BEACH, FL.

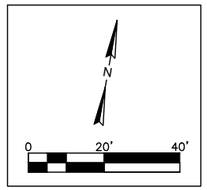
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JOB #	19-1023
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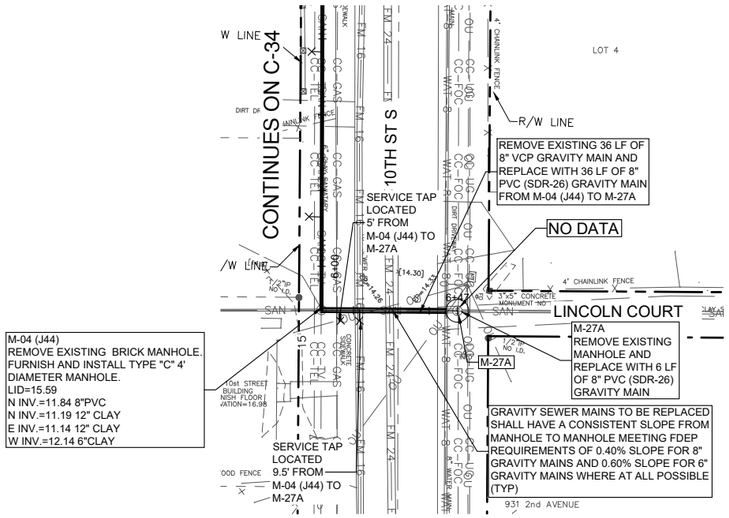
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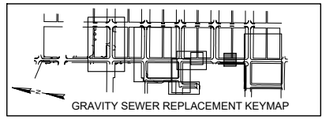
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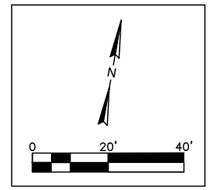




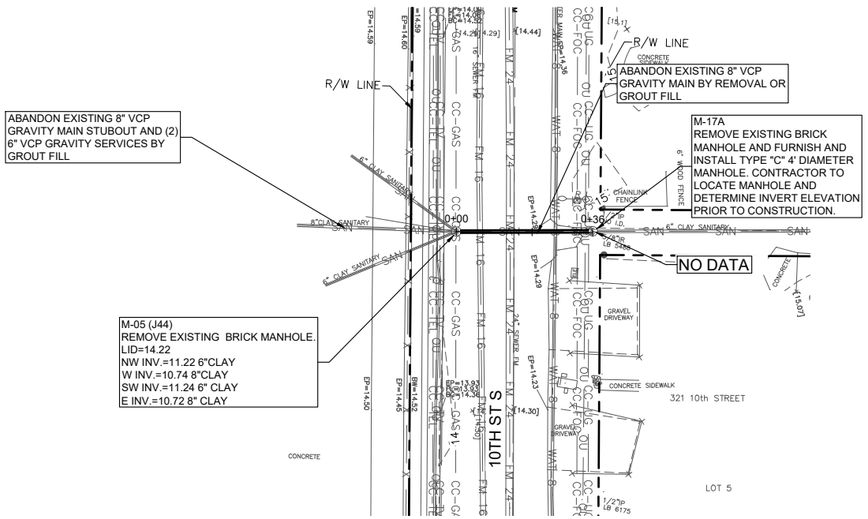
SECTION I







SECTION K



SURVEY NOTES PER SHEET G-2:

2. BEARINGS AND COORDINATES SHOWN HEREIN REFER TO THE FLORIDA STATE PLANE COORDINATE SYSTEM FOR THE FLORIDA EAST ZONE (901), NORTH AMERICAN DATUM OF 1983 (NAD 83) AND WERE DERIVED FROM GPS OBSERVATIONS UTILIZING OPUS RS-SOLUTIONS AS PROVIDED BY THE NATIONAL GEODETIC SURVEY (NGS) AND ARE EXPRESSED IN U.S. SURVEY FEET.

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

GRAVITY MAIN REPLACEMENT

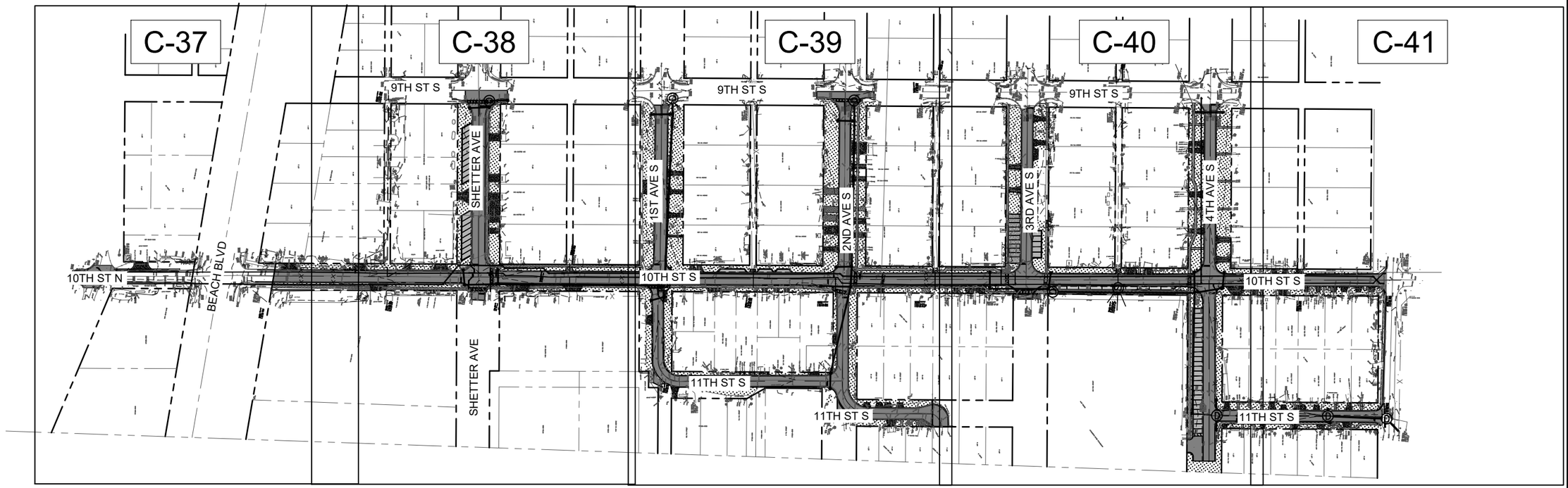
CITY OF JACKSONVILLE BEACH, FL.

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JOB #	19-1023		
ISSUE DATE	SEPTEMBER 2025		
ISSUE	BID		

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CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II



SURVEY NOTES PER SHEET G-2:

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10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II

DRAINAGE, PAVING AND GRADING - KEY MAP

CITY OF JACKSONVILLE BEACH, FL

DESIGN	MRK	DRAWN	BRH
JOB #	19-1023		
ISSUE DATE	SEPTEMBER 2025		
ISSUE	BID		

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C-36 - KEY

CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II

SURVEY NOTES PER SHEET G-2:

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NOTE:

TIE-IN ALL DRIVEWAYS BEING REPLACED AT GRADE WITH POSITIVE DRAINAGE TOWARDS ROAD AT 1% MINIMUM SLOPE. CONTRACTOR TO PROVIDE SUITABLE FILL AS NECESSARY FOR GRADING TO HAVE POSITIVE DRAINAGE AND MEET DETAILS.

N

0 30' 60'

PGD KEYMAP

CL:MATCH EXISTING GRADE
TRANSITION CURB TO MATCH EXISTING (TYP)
EP:MATCH EXISTING GRADE
EP:11.80
EP:12.21
CL:12.56
EP:12.40
CL:12.42
EP:11.91
EP:12.16
CL:12.40
EP:12.22
EP:12.01
EP:MATCH EXISTING GRADE
CL:MATCH EXISTING GRADE
10TH ST N
PROPOSED FM
PROPOSED WM
177305-0000
177306-0000
LOT 2
LOT 1
LOT 7
LOT 8
BLOCK 35
LOT 4
LOT 3
900 BEACH BLVD
LOT 5
LOT 6
BLOCK 19
LOT 12
LOT 11
BEACH BLVD
CL:MATCH EXISTING GRADE
TRANSITION CURB TO MATCH EXISTING (TYP)
EP:MATCH EXISTING GRADE
EP:MATCH EXISTING GRADE
R/W LINE
CL:12.30
EP:12.06
10TH ST S
EP:12.06
R/W LINE
R/W LINE
992 BEACH BLVD
900 BEACH BLVD
MATCHLINE: C-38

PAVING LEGEND
- DENOTES LIMITS OF NEW ASPHALT
- DENOTES ASPHALT PARKING AREAS
- DENOTES CONCRETE DRIVEWAY REPAIR
- DENOTES CONCRETE SIDEWALK REPAIR
- DENOTES LANDSCAPE SEED AREA
- DENOTES CONCRETE CURB REPAIR

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

DRAINAGE, PAVING AND GRADING

CITY OF JACKSONVILLE BEACH, FL

DESIGN	DRAWN
MRK	BRH

JOB #	ISSUE DATE	ISSUE
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C-37

CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II

LAST EDITED BY: BRIAN HAMIL

CAD FILE: R:\19-1023 COJB 10TH ST\X\CDS\PROPOSED GRADE.DWG

PLOT DATE AND TIME: 9/26/2025 9:03:43 AM

MATCHLINE: C-37

MATCHLINE: C-39

10TH ST S

SHETTER AVE

9TH ST S

R/W LINE

PROPOSED FM

PROPOSED WM

PROPOSED SW

SEE SHEET C-42
SHETTER AVE PROFILE

S-001
CITY STD CURB INLET
RIM:13.84
W INV OUT:10.56 15"
N:2164470.29
E: 530099.85

S-002
CITY STD CURB INLET
RIM:13.84
N INV IN:10.52 15"
E INV IN:10.52 15"
S INV OUT:10.52 24"
N:2164465.38
E: 530073.07

S-003
CITY STD CURB INLET
RIM:13.82
E INV IN:10.68 15"
S INV OUT:10.68 15"
N:2164526.87
E: 530061.02

S-004
CITY STD CURB INLET
RIM:13.82
W INV OUT:10.72 15"
N:2164534.39
E: 530088.67

S-005
CITY STD CURB INLET
RIM:13.48
S INV OUT:10.54 15"
N:2164575.21
E: 530388.91

S-006
CITY STD CURB INLET
RIM:13.48
N INV IN:10.47 15"
E INV OUT:10.47 15"
N:2164539.18
E: 530396.76

S-007
CITY STD TYPE J INLET
RIM:13.64
W INV IN:10.43 15"
S INV OUT:10.43 15"
N:2164541.23
E: 530408.71

S-901E
RIM:13.17
N INV IN:10.31 15"
N:2164507.39
E: 530415.63

S-103
CITY STD TYPE C INLET
RIM:13.14

29 LF OF 15" PVC (SDR 26) @ 0.15%

63 LF OF 15" PVC (SDR 26) @ 0.25%

27 LF OF 15" PVC (SDR 26) @ 0.15%

244 LF OF 24" PVC (SDR 26) @ 0.15%

37 LF OF 15" PVC (SDR 26) @ 0.20%

12 LF OF 15" PVC (SDR 26) @ 0.35%

35 LF OF 15" PVC (SDR 26) @ 0.35%

TRANSITION CURB TO MATCH EXISTING (TYP)

TIE-IN PROPOSED
15" STORM SEWER PIPE
AT EXISTING INLET

SITE CONTROL
BENCHMARK
SET "+" NAIL
ELEVATION 13.71
N 2164549.00
E 530454.55

PGD KEYMAP

NOTE:

TIE–IN ALL DRIVEWAYS BEING REPLACED AT GRADE WITH POSITIVE DRAINAGE TOWARDS ROAD AT 1% MINIMUM SLOPE. CONTRACTOR TO PROVIDE SUITABLE FILL AS NECESSARY FOR GRADING TO HAVE POSITIVE DRAINAGE AND MEET DETAILS.

SURVEY NOTES PER SHEET G–2:

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PAVING LEGEND

- DENOTES LIMITS OF NEW ASPHALT
- DENOTES ASPHALT PARKING AREAS
- DENOTES CONCRETE DRIVEWAY REPAIR
- DENOTES CONCRETE SIDEWALK REPAIR
- DENOTES LANDSCAPE SEED AREA
- DENOTES CONCRETE CURB REPAIR

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

DRAINAGE, PAVING AND GRADING

CITY OF JACKSONVILLE BEACH, FL.

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C-38

CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II

MATCHLINE: C-38

S-101
CITY STD CURB INLET
RIM:14.94
SE INV OUT:9.97 15"
N:2164177.52
E: 530092.98

PROPOSED SW

66 LF OF 24" PVC (SDR) 26 @ 0.15%

SEE SHEET C-42
1ST AVE S PROFILE

39 LF OF 18" PVC (SDR 26) @ 0.20%

REMOVE EXISTING INLET AND STORM WATER PIPES

S-103
CITY STD TYPE C INLET
RIM:13.14
S INV OUT:8.89 18"
N:2164237.35
E: 530436.30

TRANSITION CURB TO MATCH EXISTING (TYP)

1ST AVE S

1ST AVENUE S

25 LF OF 15" PVC (SDR 26) @ 0.28%

321 LF OF 24" PVC (SDR 26) @ 0.32%

S-102
CITY STD CURB INLET
RIM:14.94
NW INV IN:9.90 15"
E INV OUT:9.90 15"
N:2164154.96
E: 530103.39

22 LF OF 15" PVC (SDR 26) @ 0.40%

S-102A
CITY STD TYPE J INLET
RIM:15.10
N INV IN:10.05 24"
W INV IN:9.81 15"
E INV OUT:9.81 24"
N:2164157.76
E: 530125.16

BRICK DRIVEWAY

PROPOSED SW

REMOVE EXISTING INLET AND STORM WATER PIPES

S-104
CITY STD TYPE C INLET
RIM:13.14
W INV IN:8.78 24"
N INV IN:8.81 18"
E INV OUT:8.78 24"
N:2164198.73
E: 530443.46

TIE-IN PROPOSED 24" STORM SEWER PIPE AT EXISTING MANHOLE

30 LF OF 24" PVC (SDR 26) @ 0.56%

S-902E
RIM:12.81
W INV IN:8.61 24"
SE INV IN:8.69 18"
N INV OUT:8.61 18"
N:2164204.02
E: 530472.82

10TH ST S

11TH ST S

9TH ST S

PROPOSED WM

PROPOSED FM

S-203
CITY STD CURB INLET
RIM:14.09
S INV OUT:8.16 15"
N:2163869.70
E: 530174.30

SEE SHEET C-44
10TH ST S AND 2ND AVE S PROFILE B

SEE SHEET C-44
10TH ST S AND 2ND AVE S PROFILE C

28 LF OF 15" PVC (SDR 26) @ 0.15%

S-201
CITY STD CURB INLET
RIM:14.73
E INV OUT:8.70 15"
N:2163818.96
E: 529988.46

S-202
CITY STD CURB INLET
RIM:14.53
W INV IN:8.66 15"
E INV OUT:8.66 15"
N:2163823.13
E: 530016.55

56 LF OF
15" PVC (SDR 26) @ 0.20%

167 LF OF 15" PVC (SDR 26) @ 0.36%

SEE SHEET C-43
2ND AVE S PROFILE

2ND AVE S

29 LF OF 15" PVC (SDR 26) @ 0.12%

S-204
CITY STD CURB INLET
RIM:14.11
W INV IN:8.06 15"
N INV IN:8.06 15"
E INV OUT:8.06 18"
N:2163814.26
E: 530183.04

38 LF OF 18" PVC (SDR 26) @ 0.70%

S-205
CITY STD CURB INLET
RIM:14.09
W INV IN:7.79 18"
N INV IN:7.79 15"
E INV OUT:7.79 24"
N:2163818.83
E: 530220.74

273 LF OF 24" PVC (SDR 26) @ 0.27%

S-206
CITY STD CURB INLET
RIM:14.09
S INV OUT:7.82 15"
N:2163847.15
E: 530214.68

S-208
CITY STD TYPE C INLET
RIM:13.18
S INV OUT:7.14 15"
N:2163892.02
E: 530485.25

S-207
CITY STD TYPE C INLET
RIM:13.18
W INV IN:7.06 24"
N INV IN:7.06 15"
E INV OUT:6.89 24"
N:2163861.06
E: 530490.06

39 LF OF 24" PVC (SDR 26) @ 0.50%

31 LF OF 15" PVC (SDR 26) @ 0.25%

S903E (EXISTING)
RIM:12.92
W INV IN:6.70 24"
S INV IN:6.71 30"
N INV OUT:6.67 30"
N:2163868.34
E: 530527.91

TIE-IN PROPOSED 24" STORM SEWER PIPE AT EXISTING MANHOLE

PAVING LEGEND

- DENOTES LIMITS OF NEW ASPHALT
- DENOTES ASPHALT PARKING AREAS
- DENOTES CONCRETE DRIVEWAY REPAIR
- DENOTES CONCRETE SIDEWALK REPAIR
- DENOTES LANDSCAPE SEED AREA
- DENOTES CONCRETE CURB REPAIR

NOTE:

TIE-IN ALL DRIVEWAYS BEING REPLACED AT GRADE WITH POSITIVE DRAINAGE TOWARDS ROAD AT 1% MINIMUM SLOPE. CONTRACTOR TO PROVIDE SUITABLE FILL AS NECESSARY FOR GRADING TO HAVE POSITIVE DRAINAGE AND MEET DETAILS.

SURVEY NOTES PER SHEET G-2:

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PGD KEYMAP

0 30' 60'

MATCHLINE: C-40

MICHAEL R. KLINK
LICENSE
No. 71840
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

DRAINAGE, PAVING AND GRADING

CITY OF JACKSONVILLE BEACH, FL

DESIGN	DRAWN	JOB #	ISSUE DATE	ISSUE
MRK	BRH	19-1023	SEPTEMBER 2025	BID

FOUR WATERS ENGINEERING
324 6th AVE N. JACKSONVILLE BEACH, FLORIDA 32250
904-414-2400 C.O.A.# 51101 WWW.4WENG.COM

DRAWING NUMBER
C-39

CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II

LAST EDITED BY: BRIAN HAMIL

CAD FILE: R:\19-1023 COJB 10TH ST\X\CDS\PROPOSED GRADE.DWG

PLOT DATE AND TIME: 9/26/2025 9:04:10 AM

MATCHLINE: C-39

SURVEY NOTES PER SHEET G-2:

2. BEARINGS AND COORDINATES SHOWN HEREIN REFER TO THE FLORIDA STATE PLANE COORDINATE SYSTEM FOR THE FLORIDA EAST ZONE (901), NORTH AMERICAN DATUM OF 1983 (NAD 83) AND WERE DERIVED FROM GPS OBSERVATIONS UTILIZING OPUS RS-SOLUTIONS AS PROVIDED BY THE NATIONAL GEODETIC SURVEY (NGS) AND ARE EXPRESSED IN U.S. SURVEY FEET.

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NOTE:

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PROPOSED WM
REMOVE EXISTING INLET AND STORMWATER PIPES
31 LF OF 15" PVC (SDR 26) @ 0.12%
REMOVE EXISTING INLET AND STORMWATER PIPES
S-1002
CITY STD TYPE C INLET
RIM:14.12
E INV IN:10.50 15"
S INV OUT:10.50 15"
N:2163556.95
E: 530224.58
110 LF OF 15" PVC (SDR 26) @ 0.15%
REMOVE EXISTING INLET AND STORMWATER PIPES
S-1003
CITY STD TYPE C INLET
RIM:13.90
N INV IN:10.34 15"
E INV IN:10.34 15"
SW INV OUT:10.34 18"
N:2163448.79
E: 530243.27
10 LF OF 18" PVC (SDR 26) @ 0.18%
S-1003A
CITY STD TYPE J INLET
RIM:14.51
NE INV IN:10.32 18"
S INV OUT:10.32 18"
N:2163439.71
E: 530239.32
PROPOSED SW
REMOVE EXISTING INLET AND STORMWATER PIPES
S-1103
CITY STD TYPE J INLET
RIM:13.86
N INV IN:9.12 18"
W INV IN:9.12 15"
E INV IN:9.12 15"
S INV OUT:9.12 18"
N:2163096.81
E: 530064.38
S-1101
CITY STD CURB INLET
RIM:13.21
E INV IN:9.27 18"
S INV OUT:9.29 18"
N:2163143.03
E: 530060.18
46 LF OF 18" PVC (SDR 26) @ 0.37%
S-1102
CITY STD CURB INLET
RIM:13.48
E INV OUT:9.15 15"
N:2163093.83
E: 530038.48
PROPOSED SW
226 LF OF 18" PVC (SDR 26) @ 0.25%
30 LF OF 15" PVC (SDR 26) @ 0.12%
26 LF OF 15" PVC (SDR 26) @ 0.12%
S-1104
CITY STD CURB INLET
RIM:13.48
W INV OUT:9.16 15"
N:2163103.42
E: 530093.06
34 LF OF 18" PVC @ 0.65%
265 LF OF 18" PVC (SDR 26) @ 0.18%
REMOVE EXISTING INLETS AND STORMWATER PIPES
S-1005
CITY STD CURB INLET
RIM:13.86
E INV IN:9.84 15"
S INV IN:9.84 15"
N INV IN:9.84 18"
W INV OUT:9.84 18"
N:2163178.01
E: 530283.54
S-1007
CITY STD CURB INLET
RIM:13.82
E INV IN:9.90 15"
N INV OUT:9.90 15"
N:2163127.93
E: 530301.18
29 LF OF 15" PVC (SDR 26) @ 0.12%
S-1001
CITY STD CURB INLET
RIM:14.12
W INV OUT:10.54 15"
N:2163562.07
E: 530255.04
S-1004
CITY STD CURB INLET
RIM:13.90
W INV OUT:10.38 15"
N:2163449.38
E: 530274.00
31 LF OF 15" PVC (SDR 26) @ 0.12%
39 LF OF 15" PVC (SDR 26) @ 0.12%
S-1006
CITY STD CURB INLET
RIM:13.80
W INV OUT:9.89 15"
N:2163185.07
E: 530321.95
53 LF OF 15" PVC (SDR 26) @ 0.12%
S-1008
CITY STD CURB INLET
RIM:13.82
W INV OUT:9.94 15"
N:2163129.83
E: 530330.07
S-906E
RIM:12.70
S INV OUT:7.99 24"
N:2163232.81
E: 530617.31
S-907E
RIM:12.72
N INV IN:7.91 24"
N:2163184.07
E: 530626.22
TRANSITION CURB TO MATCH EXISTING (TYP)
TRANSITION CURB TO MATCH EXISTING (TYP)

10TH ST S
3RD AVE S
4TH AVE S
11TH ST S
9TH ST S

PAVING LEGEND
- DENOTES LIMITS OF NEW ASPHALT
- DENOTES ASPHALT PARKING AREAS
- DENOTES CONCRETE DRIVEWAY REPAIR
- DENOTES CONCRETE SIDEWALK REPAIR
- DENOTES LANDSCAPE SEED AREA
- DENOTES CONCRETE CURB REPAIR

PGD KEYMAP

MATCHLINE: C-41

0 30' 60'

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

DRAINAGE, PAVING AND GRADING

CITY OF JACKSONVILLE BEACH, FL

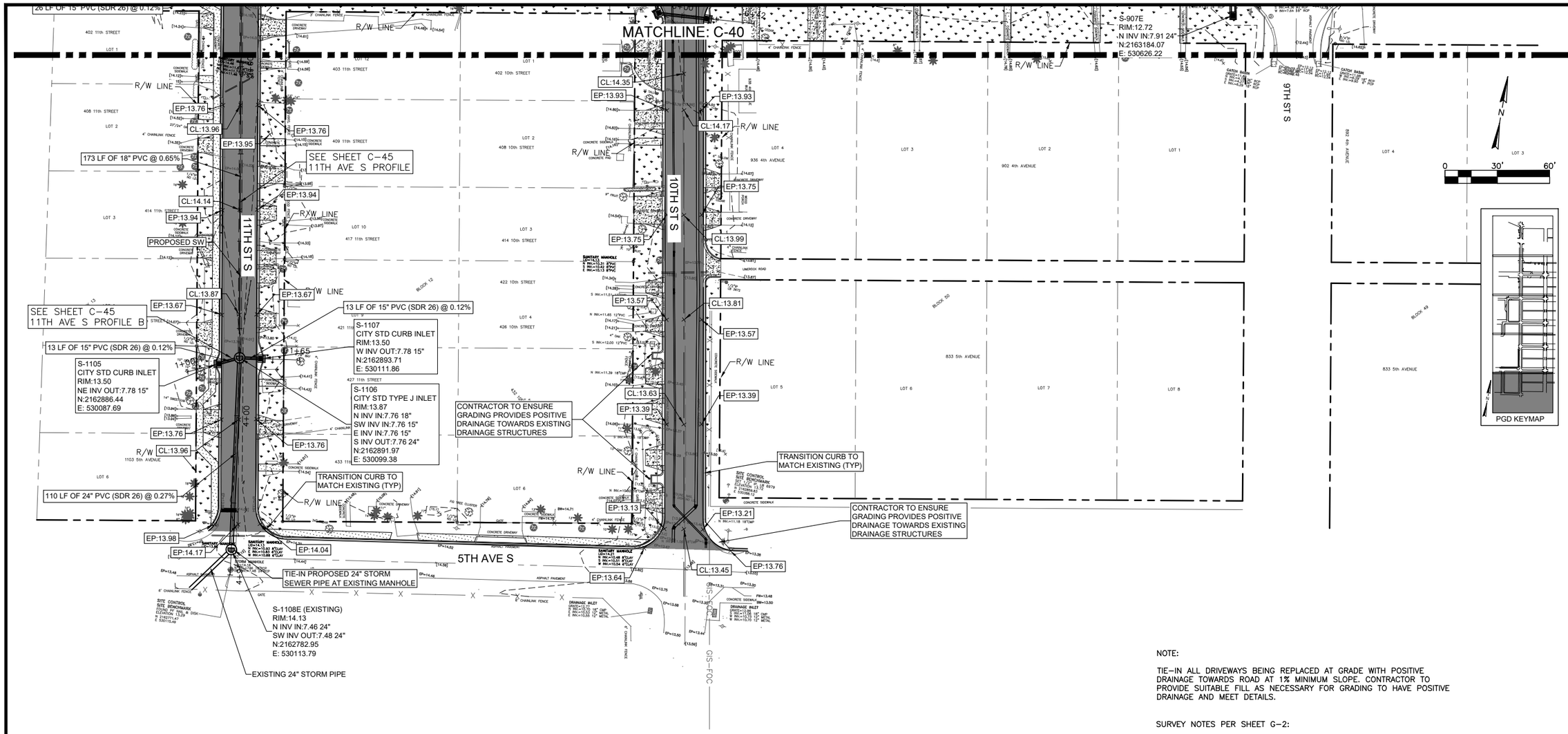
DESIGN	DRAWN	
MRK	BRH	
JOB #	19-1023	
ISSUE DATE	SEPTEMBER 2025	
ISSUE	BID	

FOUR WATERS ENGINEERING
324 6th AVE N, JACKSONVILLE BEACH, FLORIDA 32250
C.O.A.# 31101 WWW.4WENG.COM
904-414-2400

DRAWING NUMBER
C-40

CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II

LAST EDITED BY: BRIAN HAMIL
CAD FILE: R:\19-1023 COJB 10TH ST\X\CDS\PROPOSED GRADE.DWG
PLOT DATE AND TIME: 9/26/2025 9:04:24 AM



NOTE:

TIE–IN ALL DRIVEWAYS BEING REPLACED AT GRADE WITH POSITIVE DRAINAGE TOWARDS ROAD AT 1% MINIMUM SLOPE. CONTRACTOR TO PROVIDE SUITABLE FILL AS NECESSARY FOR GRADING TO HAVE POSITIVE DRAINAGE AND MEET DETAILS.

SURVEY NOTES PER SHEET G–2:

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PAVING LEGEND

- DENOTES LIMITS OF NEW ASPHALT
- DENOTES ASPHALT PARKING AREAS
- DENOTES CONCRETE DRIVEWAY REPAIR
- DENOTES CONCRETE SIDEWALK REPAIR
- DENOTES LANDSCAPE SEED AREA
- DENOTES CONCRETE CURB REPAIR

MICHAEL R. KLINK LICENSE No. 71840 STATE OF FLORIDA PROFESSIONAL ENGINEER

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

DRAINAGE, PAVING AND GRADING

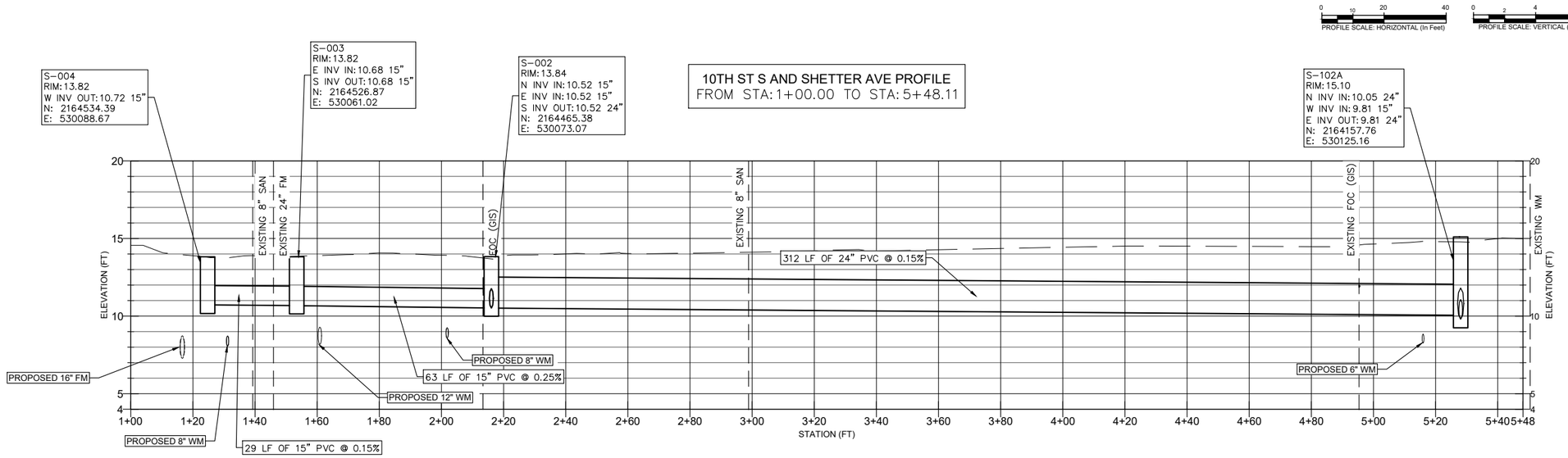
CITY OF JACKSONVILLE BEACH, FL.

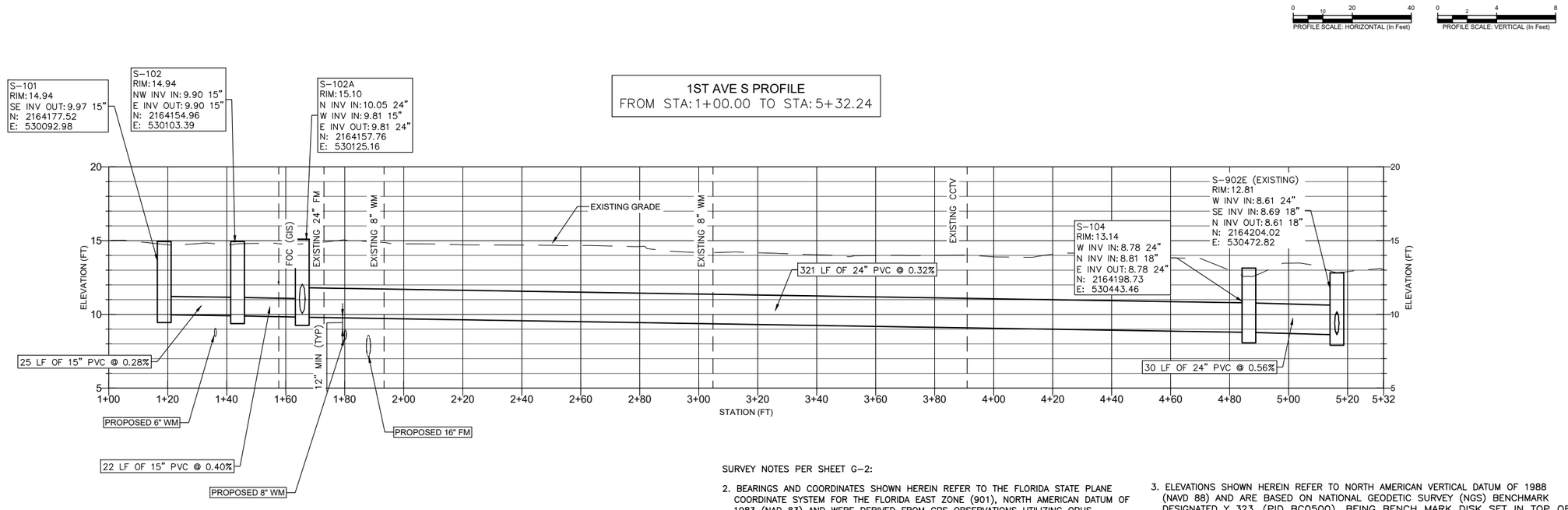
DESIGN	MRK	JOB #	19-1023
DRAWN	BRH	ISSUE DATE	SEPTEMBER 2025
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DRAWING NUMBER
C-41

CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II





SURVEY NOTES PER SHEET G-2:

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

STORM NETWORK PROFILE

CITY OF JACKSONVILLE BEACH, FL

DESIGN	DRAWN	JOB #	ISSUE DATE	ISSUE
MRK	BRH	19-1023	SEPTEMBER 2025	BID

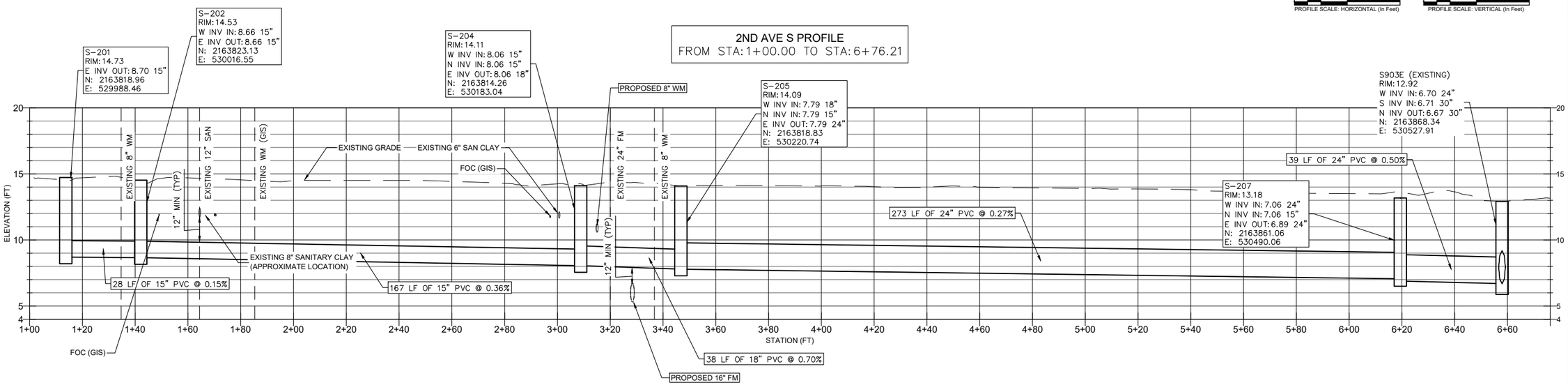
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C-42

CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II

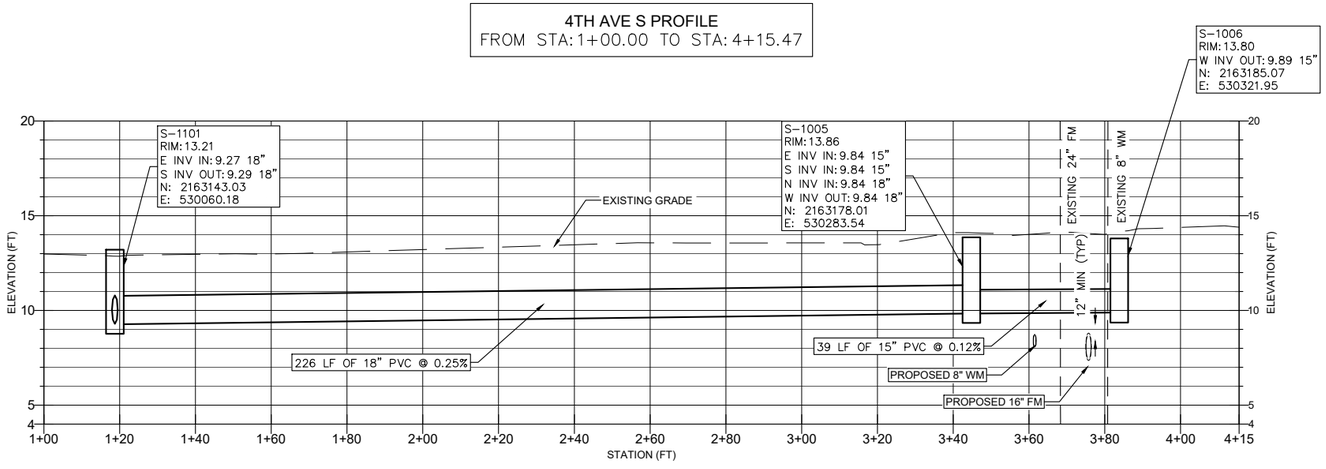
2ND AVE S PROFILE
FROM STA: 1+00.00 TO STA: 6+76.21

PROFILE SCALE: HORIZONTAL (In Feet) 0 10 20 40
PROFILE SCALE: VERTICAL (In Feet) 0 2 4 8



4TH AVE S PROFILE
FROM STA: 1+00.00 TO STA: 4+15.47

PROFILE SCALE: HORIZONTAL (In Feet) 0 10 20 40
PROFILE SCALE: VERTICAL (In Feet) 0 2 4 8



SURVEY NOTES PER SHEET G-2:

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MICHAEL R. KLINK LICENSE No. 71840 STATE OF FLORIDA PROFESSIONAL ENGINEER

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

STORM NETWORK PROFILE

CITY OF JACKSONVILLE BEACH, FL

DESIGN	DRAWN	JOB #	ISSUE DATE	ISSUE
MRK	BRH	19-1023	SEPTEMBER 2025	BID

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324 6th AVE N. JACKSONVILLE BEACH, FLORIDA 32250
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DRAWING NUMBER
C-43

CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II

SURVEY NOTES PER SHEET G-2:

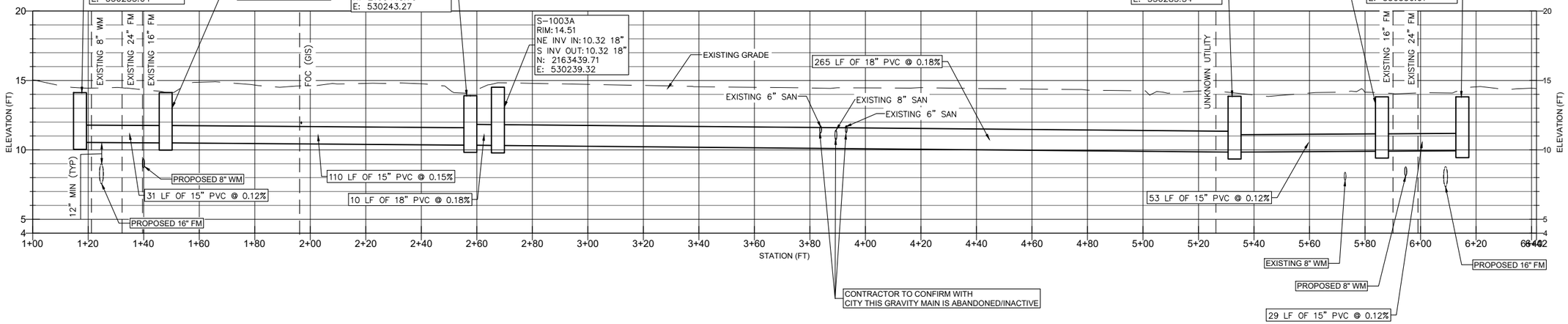
2. BEARINGS AND COORDINATES SHOWN HEREIN REFER TO THE FLORIDA STATE PLANE COORDINATE SYSTEM FOR THE FLORIDA EAST ZONE (901), NORTH AMERICAN DATUM OF 1983 (NAD 83) AND WERE DERIVED FROM GPS OBSERVATIONS UTILIZING OPUS RS-SOLUTIONS AS PROVIDED BY THE NATIONAL GEODETIC SURVEY (NGS) AND ARE EXPRESSED IN U.S. SURVEY FEET.

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0 2 4 8 PROFILE SCALE: VERTICAL (In Feet)

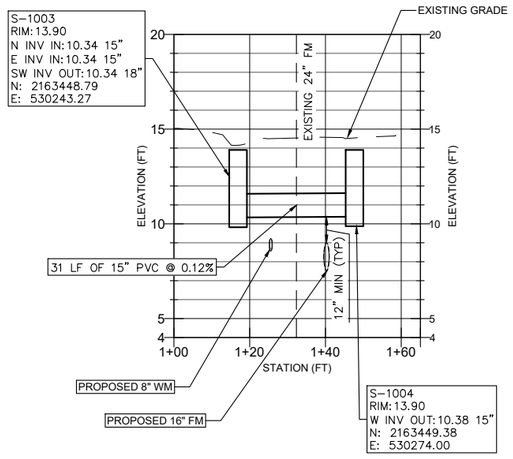
10TH ST S PROFILE
FROM STA: 1+00.00 TO STA: 6+41.74



0 10 20 40 PROFILE SCALE: HORIZONTAL (In Feet)

0 2 4 8 PROFILE SCALE: VERTICAL (In Feet)

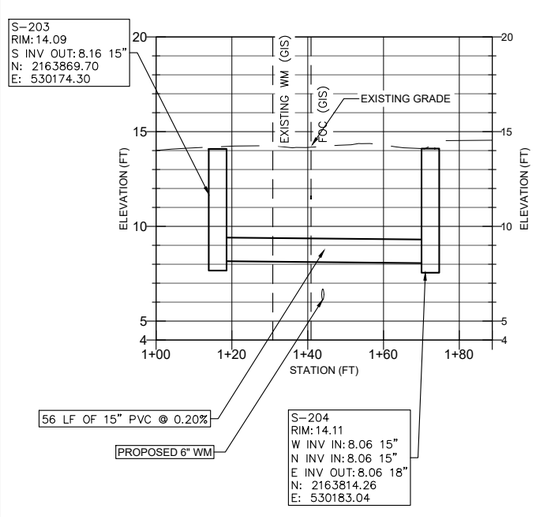
10TH ST S PROFILE A
FROM STA: 1+00.00 TO STA: 1+65.04



0 10 20 40 PROFILE SCALE: HORIZONTAL (In Feet)

0 2 4 8 PROFILE SCALE: VERTICAL (In Feet)

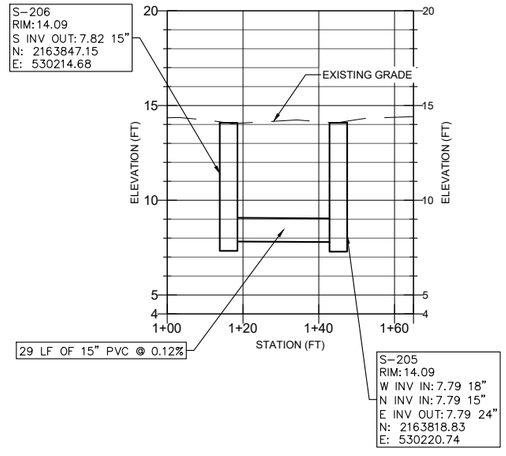
10TH ST S AND 2ND AVE S PROFILE B
FROM STA: 1+00.00 TO STA: 1+88.70



0 10 20 40 PROFILE SCALE: HORIZONTAL (In Feet)

0 2 4 8 PROFILE SCALE: VERTICAL (In Feet)

10TH ST S AND 2ND AVE S PROFILE C
FROM STA: 1+00.00 TO STA: 1+65.00



MICHAEL R. KLINK LICENSE No. 71840 STATE OF FLORIDA PROFESSIONAL ENGINEER

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

STORM NETWORK PROFILE

CITY OF JACKSONVILLE BEACH, FL

DESIGN MIRK	DRAWN BRH	JOB # 19-1023	ISSUE DATE SEPTEMBER 2025	ISSUE BID

FOUR WATERS ENGINEERING
324 6th AVE N, JACKSONVILLE BEACH, FLORIDA 32250
904-414-2400 C.O.A.# 31101 WWW.4WENG.COM

DRAWING NUMBER
C-44

CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II

SURVEY NOTES PER SHEET G-2:

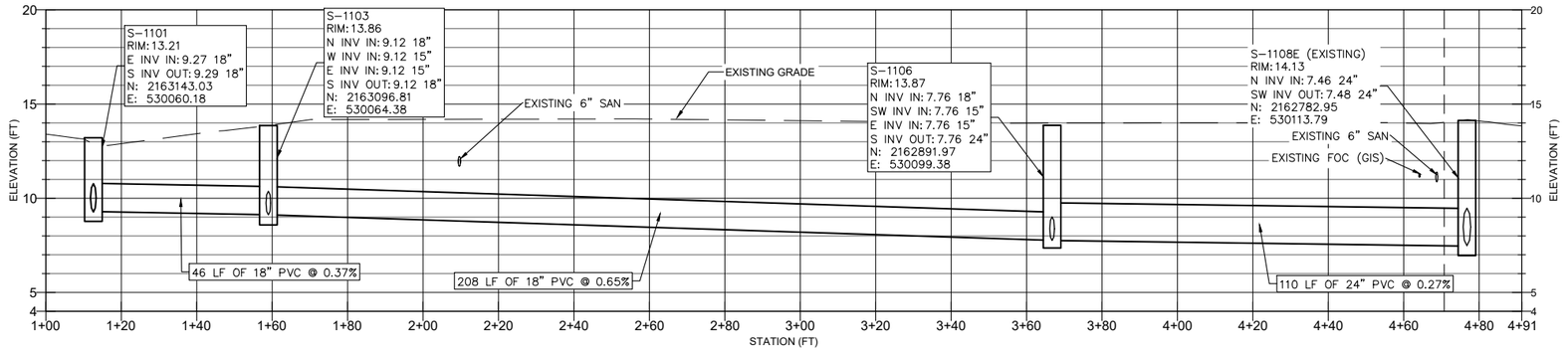
2. BEARINGS AND COORDINATES SHOWN HEREIN REFER TO THE FLORIDA STATE PLANE COORDINATE SYSTEM FOR THE FLORIDA EAST ZONE (901), NORTH AMERICAN DATUM OF 1983 (NAD 83) AND WERE DERIVED FROM GPS OBSERVATIONS UTILIZING OPUS RS-SOLUTIONS AS PROVIDED BY THE NATIONAL GEODETIC SURVEY (NGS) AND ARE EXPRESSED IN U.S. SURVEY FEET.

3. ELEVATIONS SHOWN HEREIN REFER TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) AND ARE BASED ON NATIONAL GEODETIC SURVEY (NGS) BENCHMARK DESIGNATED Y 323, (PID BC0500), BEING BENCH MARK DISK SET IN TOP OF CONCRETE MONUMENT STAMPED "Y 323 1970" AND ARE EXPRESSED IN U.S. SURVEY FEET.

0 10 20 40 PROFILE SCALE: HORIZONTAL (In Feet)

0 2 4 8 PROFILE SCALE: VERTICAL (In Feet)

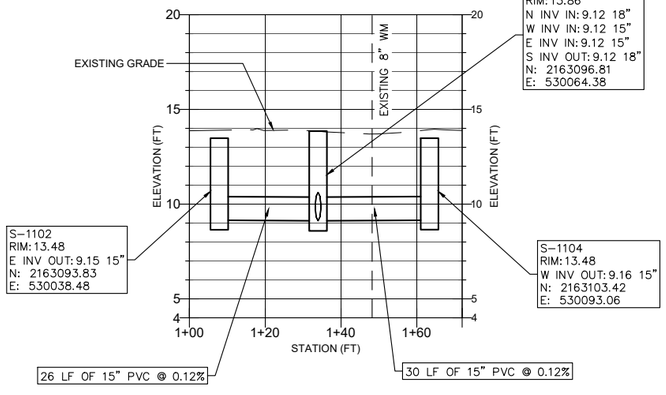
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FROM STA: 1+00.00 TO STA: 4+91.32



0 10 20 40 PROFILE SCALE: HORIZONTAL (In Feet)

0 2 4 8 PROFILE SCALE: VERTICAL (In Feet)

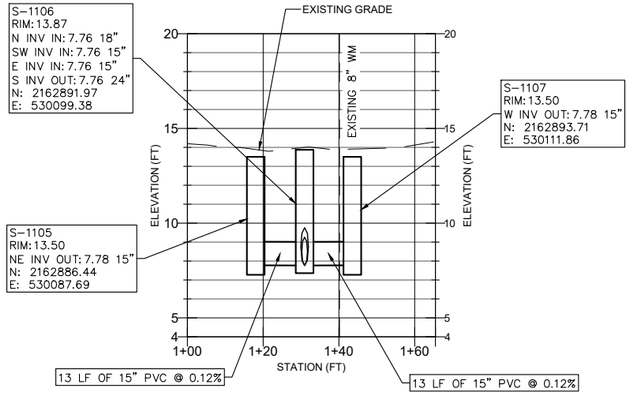
11TH ST S PROFILE A
FROM STA: 1+00.00 TO STA: 1+71.98



0 10 20 40 PROFILE SCALE: HORIZONTAL (In Feet)

0 2 4 8 PROFILE SCALE: VERTICAL (In Feet)

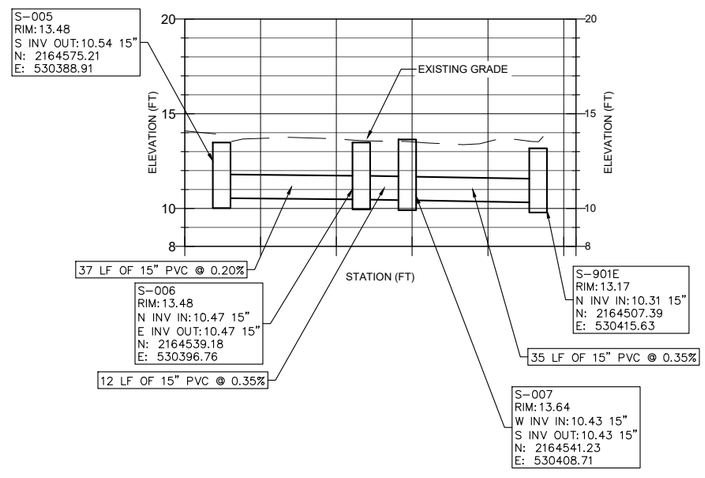
11TH ST S PROFILE B
FROM STA: 1+00.00 TO STA: 1+65.45



0 10 20 40 PROFILE SCALE: HORIZONTAL (In Feet)

0 2 4 8 PROFILE SCALE: VERTICAL (In Feet)

SHETTER AVE PROFILE
FROM STA: 10+00.00 TO STA: 11+03.25



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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

STORM NETWORK PROFILE

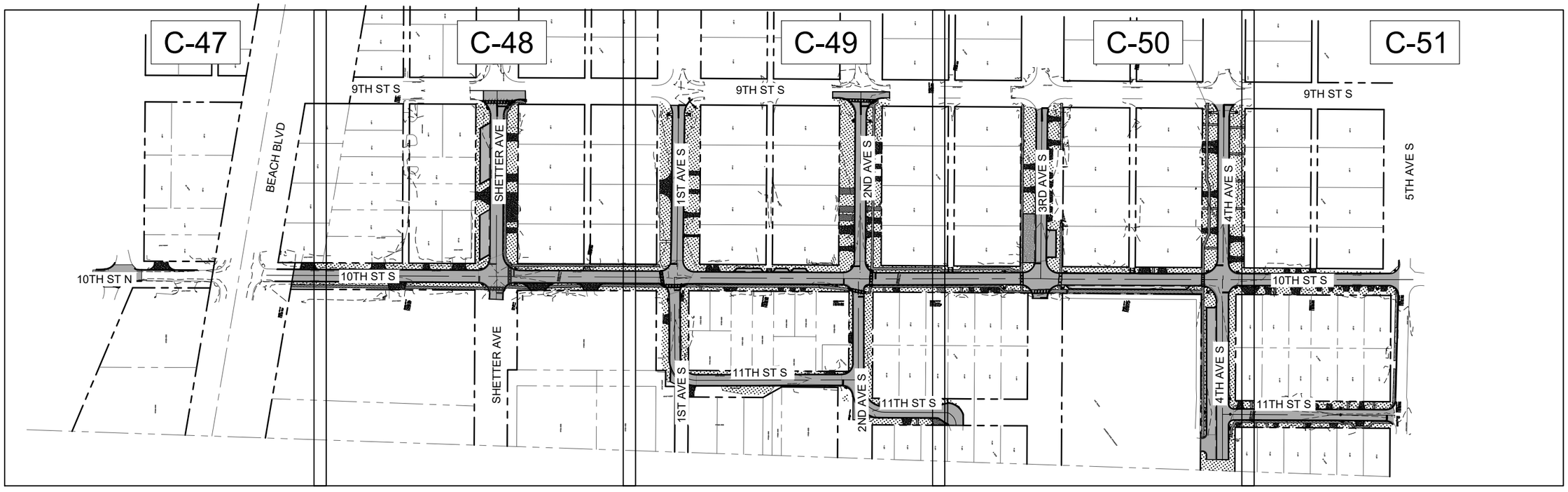
CITY OF JACKSONVILLE BEACH, FL

DESIGN MRK	DRAWN BRH		
JOB #	19-1023	ISSUE DATE	SEPTEMBER 2025
ISSUE	BID		

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324 6th AVE N, JACKSONVILLE BEACH, FLORIDA 32250
904-414-2400 C.O.A.# 31101 WWW.4WENG.COM

DRAWING NUMBER
C-45

CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II



SURVEY NOTES PER SHEET G-2:

2. BEARINGS AND COORDINATES SHOWN HEREIN REFER TO THE FLORIDA STATE PLANE COORDINATE SYSTEM FOR THE FLORIDA EAST ZONE (901), NORTH AMERICAN DATUM OF 1983 (NAD 83) AND WERE DERIVED FROM GPS OBSERVATIONS UTILIZING OPUS RS-SOLUTIONS AS PROVIDED BY THE NATIONAL GEODETIC SURVEY (NGS) AND ARE EXPRESSED IN U.S. SURVEY FEET.

3. ELEVATIONS SHOWN HEREIN REFER TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) AND ARE BASED ON NATIONAL GEODETIC SURVEY (NGS) BENCHMARK DESIGNATED Y 323, (PID BC0500), BEING BENCH MARK DISK SET IN TOP OF CONCRETE MONUMENT STAMPED "Y 323 1970" AND ARE EXPRESSED IN U.S. SURVEY FEET.

MICHAEL R. KLINK LICENSE No. 71840 STATE OF FLORIDA PROFESSIONAL ENGINEER

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

CONSTRUCTION AND GEOMETRY - KEY MAP

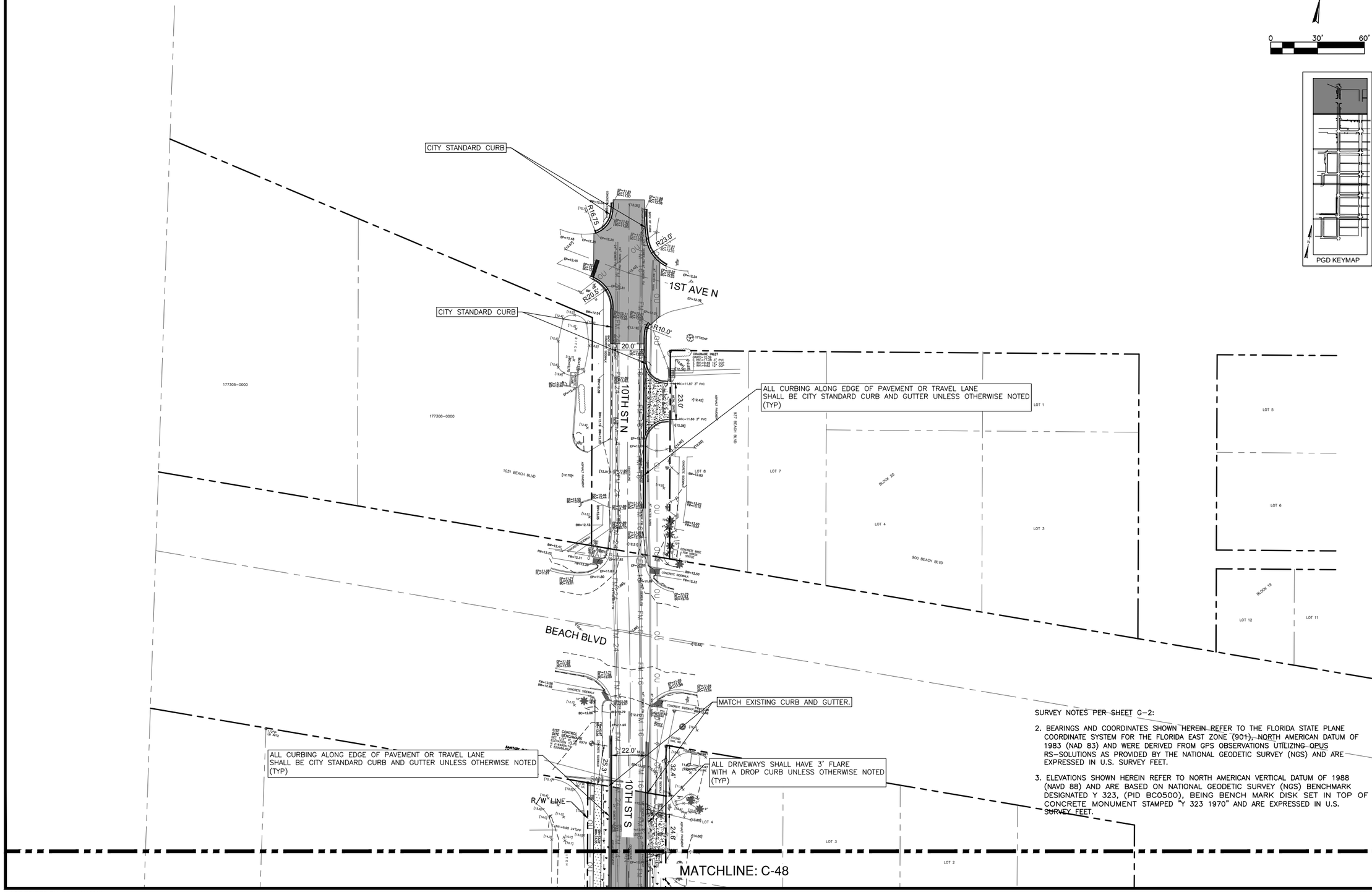
CITY OF JACKSONVILLE BEACH, FL

DESIGN	MRK	JOB #	19-1023
DRAWN	BRH	ISSUE DATE	SEPTEMBER 2025
		ISSUE	BID

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324 6th AVE N, JACKSONVILLE BEACH, FLORIDA 32250
904-414-2400 C.O.A.# 31101 WWW.4WENG.COM

DRAWING NUMBER
C-46 - KEY

CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II



SURVEY NOTES PER SHEET G-2:

2. BEARINGS AND COORDINATES SHOWN HEREIN REFER TO THE FLORIDA STATE PLANE COORDINATE SYSTEM FOR THE FLORIDA EAST ZONE (901), NORTH AMERICAN DATUM OF 1983 (NAD 83) AND WERE DERIVED FROM GPS OBSERVATIONS UTILIZING OPUS RS-SOLUTIONS AS PROVIDED BY THE NATIONAL GEODETIC SURVEY (NGS) AND ARE EXPRESSED IN U.S. SURVEY FEET.

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MICHAEL R. KLINK LICENSE No. 71840 STATE OF FLORIDA PROFESSIONAL ENGINEER

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

CONSTRUCTION AND GEOMETRY PLAN

CITY OF JACKSONVILLE BEACH, FL.

DESIGN	DRAWN
MRK	BRH
JOB #	19-1023
ISSUE DATE	SEPTEMBER 2025
ISSUE	BID

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324 6th AVE N, JACKSONVILLE BEACH, FLORIDA 32250
904-414-2400 C.O.A.# 31101 WWW.4WENG.COM

DRAWING NUMBER
C-47

CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II

MATCHLINE: C-47

MATCHLINE: C-49

ALL DRIVEWAYS SHALL HAVE 3' FLARE WITH A DROP CURB UNLESS OTHERWISE NOTED (TYP)

CITY STANDARD CURB

DROP CURB

2' VALLEY GUTTER

CURBING WITHIN PARKING AREAS SHALL BE CITY STANDARD MEDIAN CURB. CURBING ALONG EDGE OF PAVEMENT SHALL BE CITY STANDARD DROP CURB UNLESS OTHERWISE NOTED. (TYP)

MATCH EXISTING CURB AND GUTTER.

TRANSITION CURB

2' VALLEY GUTTER (TYP)

ALL CURBING ALONG EDGE OF PAVEMENT OR TRAVEL LANE SHALL BE CITY STANDARD CURB AND GUTTER UNLESS OTHERWISE NOTED (TYP)

SHETTER AVE

10TH ST S

9TH ST S

SURVEY NOTES PER SHEET G-2:

2. BEARINGS AND COORDINATES SHOWN HEREIN REFER TO THE FLORIDA STATE PLANE COORDINATE SYSTEM FOR THE FLORIDA EAST ZONE (901), NORTH AMERICAN DATUM OF 1983 (NAD 83) AND WERE DERIVED FROM GPS OBSERVATIONS UTILIZING OPUS RS-SOLUTIONS AS PROVIDED BY THE NATIONAL GEODETIC SURVEY (NGS) AND ARE EXPRESSED IN U.S. SURVEY FEET.

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PGD KEYMAP

MICHAEL R. KLINK LICENSE No. 71840 STATE OF FLORIDA PROFESSIONAL ENGINEER

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

CONSTRUCTION AND GEOMETRY PLAN

CITY OF JACKSONVILLE BEACH, FL

DESIGN	DRAWN
MRK	BRH
JOB #	19-1023
ISSUE DATE	SEPTEMBER 2025
ISSUE	BID

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904-414-2400 C.O.A.# 31101 WWW.4WENG.COM

CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II

DRAWING NUMBER
C-48

MATCHLINE: C-48

MATCHLINE: C-50

CITY STANDARD CURB

TRANSITION CURB

DROP CURB

2' VALLEY GUTTER

MATCH EXISTING GRADE.

MATCH EXISTING CURB AND GUTTER.

1ST AVE S

2ND AVE S

10TH ST S

11TH ST S

9TH ST S

CURBING WITHIN PARKING AREAS SHALL BE CITY STANDARD MEDIAN CURB. CURBING ALONG EDGE OF PAVEMENT SHALL BE CITY STANDARD DROP CURB UNLESS OTHERWISE NOTED. (TYP)

ALL CURBING ALONG EDGE OF PAVEMENT OR TRAVEL LANE SHALL BE CITY STANDARD CURB AND GUTTER UNLESS OTHERWISE NOTED (TYP)

ALL DRIVEWAYS SHALL HAVE 3' FLARE WITH A DROP CURB UNLESS OTHERWISE NOTED (TYP)

CROSSWALK MARKINGS TO BE INSTALLED PER FDOT INDEX 711-001 (TYP)

PGD KEYMAP

SURVEY NOTES PER SHEET G-2:

2. BEARINGS AND COORDINATES SHOWN HEREIN REFER TO THE FLORIDA STATE PLANE COORDINATE SYSTEM FOR THE FLORIDA EAST ZONE (901), NORTH AMERICAN DATUM OF 1983 (NAD 83) AND WERE DERIVED FROM GPS OBSERVATIONS UTILIZING OPUS RS-SOLUTIONS AS PROVIDED BY THE NATIONAL GEODETIC SURVEY (NGS) AND ARE EXPRESSED IN U.S. SURVEY FEET.

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MICHAEL R. KLINK
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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

CONSTRUCTION AND GEOMETRY PLAN

CITY OF JACKSONVILLE BEACH, FL

DESIGN	DRAWN		
MRK	BRH		
JOB #	19-1023		
ISSUE DATE	SEPTEMBER 2025		
ISSUE	BID		

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904-414-2400 C.O.A.# 31101 WWW.4WENG.COM

DRAWING NUMBER
C-49

CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II

MATCHLINE: C-49

MATCHLINE: C-51

SURVEY NOTES PER SHEET G-2:

2. BEARINGS AND COORDINATES SHOWN HEREIN REFER TO THE FLORIDA STATE PLANE COORDINATE SYSTEM FOR THE FLORIDA EAST ZONE (901), NORTH AMERICAN DATUM OF 1983 (NAD 83) AND WERE DERIVED FROM GPS OBSERVATIONS UTILIZING OPUS RS-SOLUTIONS AS PROVIDED BY THE NATIONAL GEODETIC SURVEY (NGS) AND ARE EXPRESSED IN U.S. SURVEY FEET.

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MATCH EXISTING CURB AND GUTTER.

CITY STANDARD CURB

DROP CURB

TRANSITION CURB

TIE INTO EXISTING SIDEWALK AT GRADE.

2' VALLEY GUTTER (TYP)

ALL CURBING ALONG EDGE OF PAVEMENT OR TRAVEL LANE SHALL BE CITY STANDARD CURB AND GUTTER UNLESS OTHERWISE NOTED (TYP)

ALL DRIVEWAYS SHALL HAVE 3' FLARE WITH A DROP CURB UNLESS OTHERWISE NOTED (TYP)

CURBING WITHIN PARKING AREAS SHALL BE CITY STANDARD MEDIAN CURB. CURBING ALONG EDGE OF PAVEMENT SHALL BE CITY STANDARD DROP CURB UNLESS OTHERWISE NOTED. (TYP)

10TH ST S

9TH ST S

3RD AVE S

4TH AVE S

PGD KEYMAP

0 30' 60'

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

CONSTRUCTION AND GEOMETRY PLAN

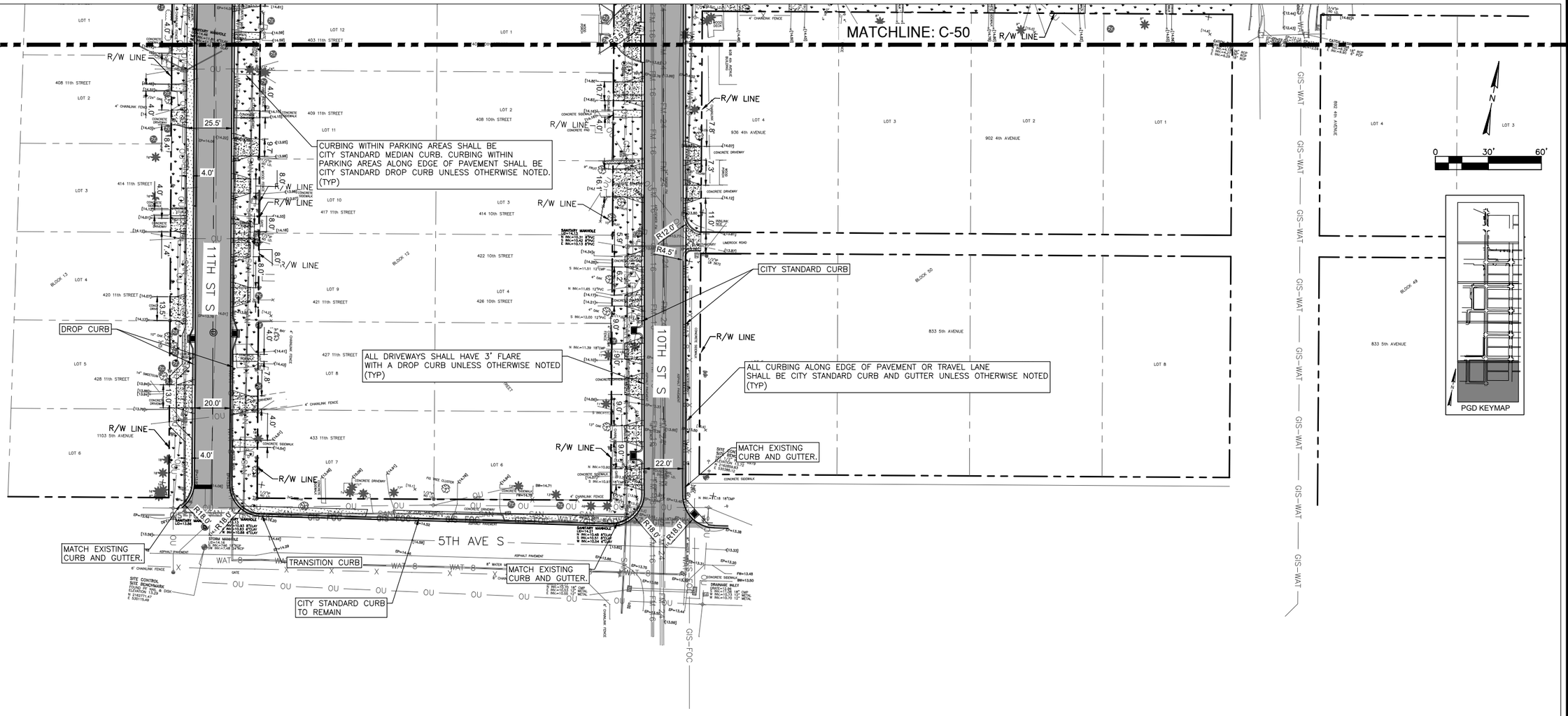
CITY OF JACKSONVILLE BEACH, FL.

DESIGN	DRAWN
MRK	BRH
JOB #	19-1023
ISSUE DATE	SEPTEMBER 2025
ISSUE	BID

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324 6th AVE N, JACKSONVILLE BEACH, FLORIDA 32250
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DRAWING NUMBER
C-50

CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II



SURVEY NOTES PER SHEET G-2:

2. BEARINGS AND COORDINATES SHOWN HEREIN REFER TO THE FLORIDA STATE PLANE COORDINATE SYSTEM FOR THE FLORIDA EAST ZONE (901), NORTH AMERICAN DATUM OF 1983 (NAD 83) AND WERE DERIVED FROM GPS OBSERVATIONS UTILIZING OPUS RS-SOLUTIONS AS PROVIDED BY THE NATIONAL GEODETIC SURVEY (NGS) AND ARE EXPRESSED IN U.S. SURVEY FEET.

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MICHAEL R. KLINK
LICENSE
No. 71840
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

CONSTRUCTION AND GEOMETRY PLAN

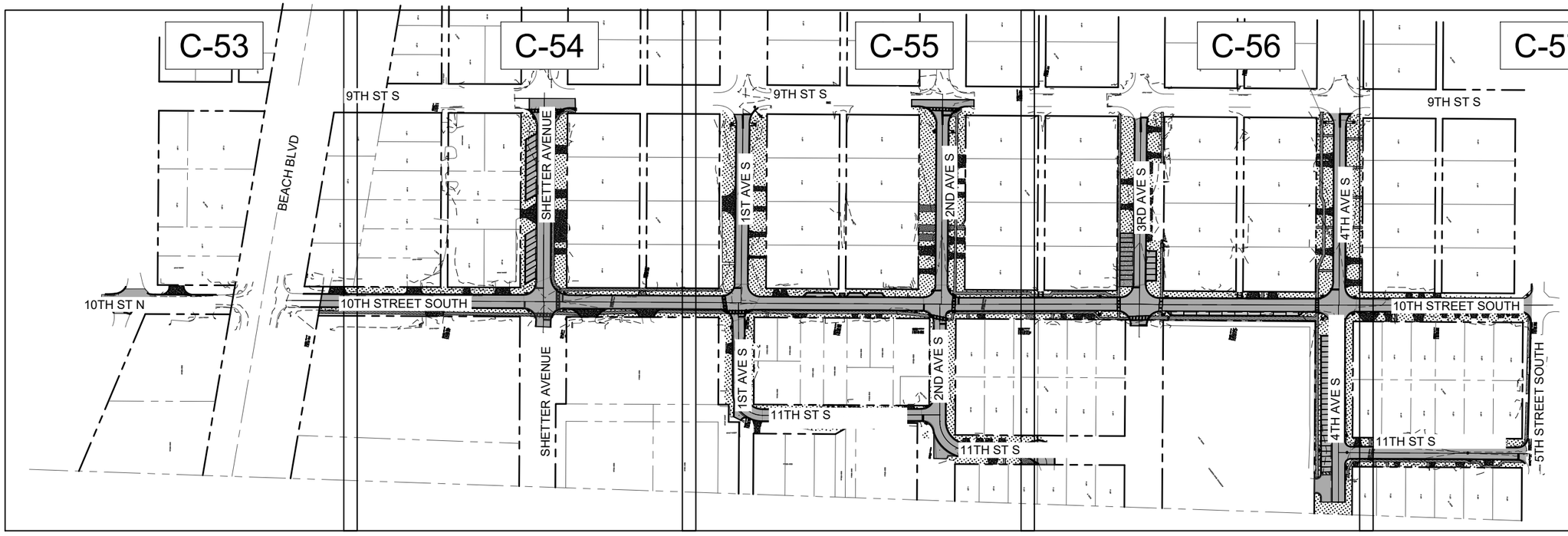
CITY OF JACKSONVILLE BEACH, FL.

DESIGN	DRAWN
MRK	BRH
JOB #	19-1023
ISSUE DATE	SEPTEMBER 2025
ISSUE	BID

FOUR WATERS ENGINEERING
324 6th AVE N. JACKSONVILLE BEACH, FLORIDA 32250
904-414-2400 C.O.A.# 31101 WWW.4WENG.COM

DRAWING NUMBER
C-51

CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II



SURVEY NOTES PER SHEET G-2:

2. BEARINGS AND COORDINATES SHOWN HEREIN REFER TO THE FLORIDA STATE PLANE COORDINATE SYSTEM FOR THE FLORIDA EAST ZONE (901), NORTH AMERICAN DATUM OF 1983 (NAD 83) AND WERE DERIVED FROM GPS OBSERVATIONS UTILIZING OPUS RS-SOLUTIONS AS PROVIDED BY THE NATIONAL GEODETIC SURVEY (NGS) AND ARE EXPRESSED IN U.S. SURVEY FEET.

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MICHAEL R. KLINK
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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

PROPOSED SIGNAGE & PAVEMENT MARKINGS - KEY MAP

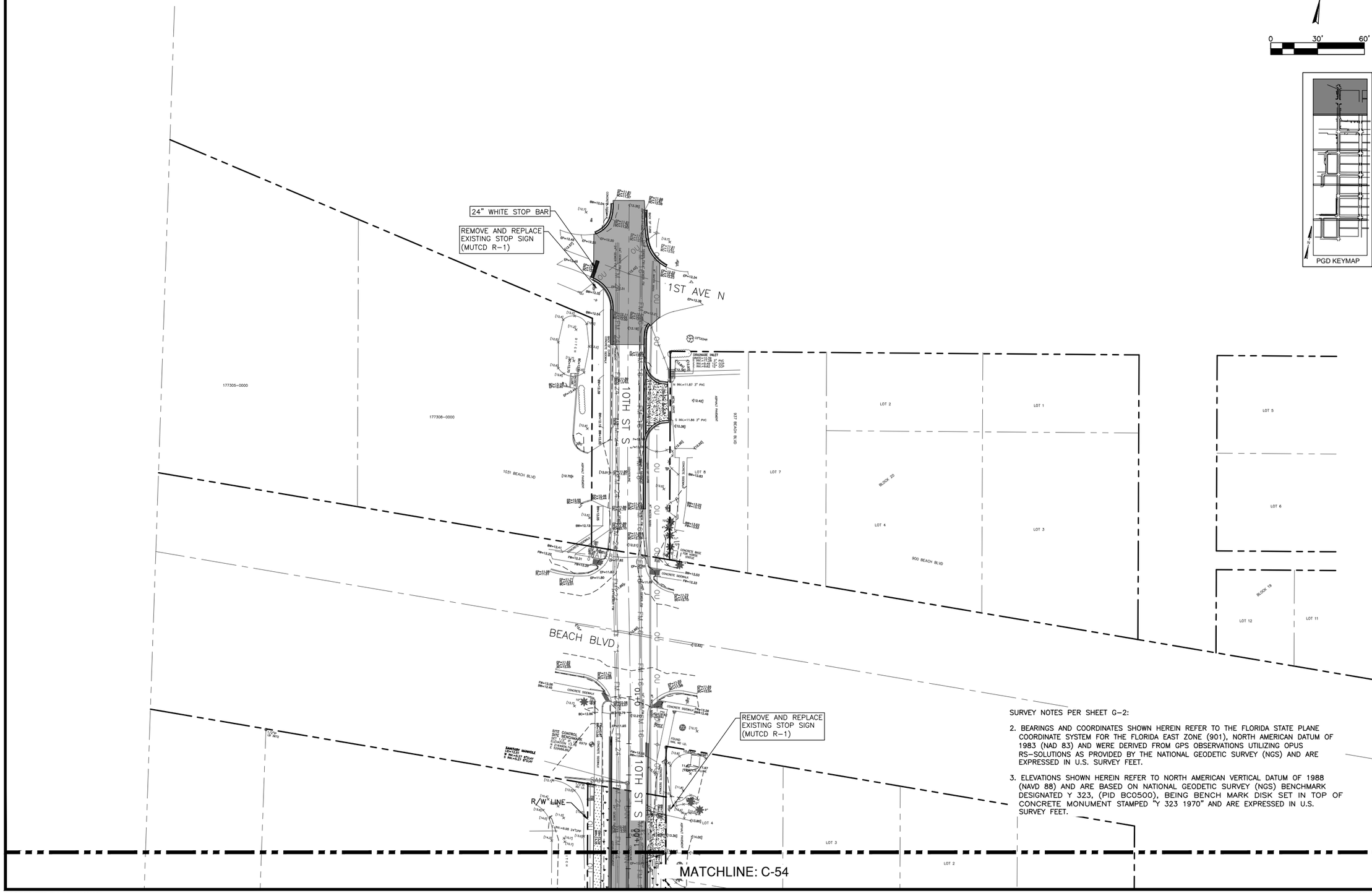
CITY OF JACKSONVILLE BEACH, FL

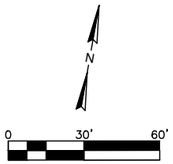
DESIGN	MRK	DRAWN	BRH
JOB #	19-1023		
ISSUE DATE	SEPTEMBER 2025		
ISSUE	BID		

FOUR WATERS ENGINEERING
324 6th AVE N, JACKSONVILLE BEACH, FLORIDA 32250
904-414-2400 C.O.A.# 31101 WWW.4WENG.COM

DRAWING NUMBER
C-52 - KEY

CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II





SURVEY NOTES PER SHEET G-2:

2. BEARINGS AND COORDINATES SHOWN HEREIN REFER TO THE FLORIDA STATE PLANE COORDINATE SYSTEM FOR THE FLORIDA EAST ZONE (901), NORTH AMERICAN DATUM OF 1983 (NAD 83) AND WERE DERIVED FROM GPS OBSERVATIONS UTILIZING OPUS RS-SOLUTIONS AS PROVIDED BY THE NATIONAL GEODETIC SURVEY (NGS) AND ARE EXPRESSED IN U.S. SURVEY FEET.

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MICHAEL R. KLINK
LICENSE
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STATE OF FLORIDA
PROFESSIONAL ENGINEER

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REV NO	DATE	DRWN BY	CHKD BY	DESCRIPTION
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PROPOSED SIGNAGE & PAVEMENT MARKINGS

10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

CITY OF JACKSONVILLE BEACH, FL

DESIGN	MRK	DRAWN	BRH
JOB #	19-1023		
ISSUE DATE	SEPTEMBER 2025		
ISSUE	BID		

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324 6th AVE N. JACKSONVILLE BEACH, FLORIDA 32250
904-414-2400 C.O.A.# 31101 WWW.4WENG.COM

DRAWING NUMBER
C-53

CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II

MATCHLINE: C-53

MATCHLINE: C-55

R/W LINE

REMOVE AND REPLACE EXISTING SIGN

REMOVE AND REPLACE EXISTING STOP SIGN (MUTCD R-1)

CROSSWALK MARKINGS TO BE INSTALLED PER FDOT INDEX 711-001 (TYP)

24" WHITE STOP BAR

6" YELLOW (TYP)

6" DOUBLE YELLOW LINE

NEW STOP SIGN (MUTCD R-1)

SHETTER AVE

10TH ST S

9TH ST S

992 BEACH BLVD

900 BEACH BLVD

834 BEACH BLVD

818 BEACH BLVD

1038 BEACH BLVD

953 SHETTER AVE

832 SHETTER AVE

53 10th STREET

57 10th STREET

88 10th STREET

53 9th STREET

1100 SHETTER AVE

1147 1st AVENUE

831 1st AVENUE

177310-0010

177311-0000

177309-0000

177311-1000

PABLO BEACH SOUTH
MAP BOOK 3 PAGE 28

900 B EACH BOULEVARD
BUILDING FINISH FLOOR ELEVATION=15.1

BUILDING FINISH FLOOR ELEVATION=14.84

BUILDING FINISH FLOOR ELEVATION=14.60

SURVEY NOTES PER SHEET G-2:

2. BEARINGS AND COORDINATES SHOWN HEREIN REFER TO THE FLORIDA STATE PLANE COORDINATE SYSTEM FOR THE FLORIDA EAST ZONE (901), NORTH AMERICAN DATUM OF 1983 (NAD 83) AND WERE DERIVED FROM GPS OBSERVATIONS UTILIZING OPUS RS-SOLUTIONS AS PROVIDED BY THE NATIONAL GEODETIC SURVEY (NGS) AND ARE EXPRESSED IN U.S. SURVEY FEET.

3. ELEVATIONS SHOWN HEREIN REFER TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) AND ARE BASED ON NATIONAL GEODETIC SURVEY (NGS) BENCHMARK DESIGNATED Y 323, (PID BC0500), BEING BENCH MARK DISK SET IN TOP OF CONCRETE MONUMENT STAMPED "Y 323 1970" AND ARE EXPRESSED IN U.S. SURVEY FEET.

PGD KEYMAP

0 30' 60'

MICHAEL R. KLINK LICENSE No. 71840 STATE OF FLORIDA PROFESSIONAL ENGINEER

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REV NO	DATE	DRWN BY	CHKD BY	DESCRIPTION
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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

PROPOSED SIGNAGE & PAVEMENT MARKINGS

CITY OF JACKSONVILLE BEACH, FL

DESIGN	DRAWN	JOB #	ISSUE DATE	ISSUE
MRK	BRH	19-1023	SEPTEMBER 2025	BID

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324 6th AVE N, JACKSONVILLE BEACH, FLORIDA 32250
904-414-2400 C.O.A.# 31101 WWW.4WENG.COM

DRAWING NUMBER
C-54

CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II

MATCHLINE: C-54

MATCHLINE: C-56

CROSSWALK MARKINGS TO BE INSTALLED PER FDOT INDEX 711-001 (TYP)

REMOVE AND REPLACE EXISTING STOP SIGN (MUTCD R-1)

24" WHITE STOP BAR

6" DOUBLE YELLOW LINE

6" YELLOW LINE (TYP)

REMOVE AND REPLACE EXISTING SIGN

R/W LINE

1ST AVE S

2ND AVE S

9TH ST S

10TH ST S

11TH ST S

SITE CONTROL
SITE BENCHMARK
SET: A-CM
ELEVATION: 13.71
N: 2164248.00
E: 536464.43

SITE CONTROL
SITE BENCHMARK
SET: 5/8" REBAR & DISK
ELEVATION: 15.70
N: 2164058.23
E: 535946.24

SURVEY NOTES PER SHEET G-2:

2. BEARINGS AND COORDINATES SHOWN HEREIN REFER TO THE FLORIDA STATE PLANE COORDINATE SYSTEM FOR THE FLORIDA EAST ZONE (901), NORTH AMERICAN DATUM OF 1983 (NAD 83) AND WERE DERIVED FROM GPS OBSERVATIONS UTILIZING OPUS RS-SOLUTIONS AS PROVIDED BY THE NATIONAL GEODETIC SURVEY (NGS) AND ARE EXPRESSED IN U.S. SURVEY FEET.

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PGD KEYMAP

0 30' 60'

N

MICHAEL R. KLINK
LICENSE
No. 71840
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

PROPOSED SIGNAGE & PAVEMENT MARKINGS

CITY OF JACKSONVILLE BEACH, FL.

DESIGN	DRAWN	JOB #	ISSUE DATE	ISSUE
MRK	BRH	19-1023	SEPTEMBER 2025	BID

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DRAWING NUMBER
C-55

CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II

LAST EDITED BY: BRIAN HAMIL

CAD FILE: R:\19-1023 COJB 10TH ST\X\CDS\PROPOSED SIGNAGE.DWG

PLOT DATE AND TIME: 9/26/2025 9:07:50 AM

SURVEY NOTES PER SHEET G-2:

2. BEARINGS AND COORDINATES SHOWN HEREIN REFER TO THE FLORIDA STATE PLANE COORDINATE SYSTEM FOR THE FLORIDA EAST ZONE (901), NORTH AMERICAN DATUM OF 1983 (NAD 83) AND WERE DERIVED FROM GPS OBSERVATIONS UTILIZING OPUS RS-SOLUTIONS AS PROVIDED BY THE NATIONAL GEODETIC SURVEY (NGS) AND ARE EXPRESSED IN U.S. SURVEY FEET.

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MATCHLINE: C-55

MATCHLINE: C-57

REMOVE AND REPLACE EXISTING SIGN

REMOVE AND REPLACE EXISTING SIGN (MUTCD R-1)

CROSSWALK MARKINGS TO BE INSTALLED PER FDOT INDEX 711-001 (TYP)

24" WHITE STOP BAR

NEW STOP SIGN (SEE D-7 DETAIL)

6" YELLOW LINE (TYP)

PEDESTRIAN CROSSING (TYP)

REMOVE AND REPLACE EXISTING STOP SIGN. (MUTCD R-1)

MATCH EXISTING CURB AND GUTTER.

6" DOUBLE YELLOW LINE

10TH ST S

9TH ST S

3RD AVE S

4TH AVE S

R/W LINE

PGD KEYMAP

0 30' 60'

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

PROPOSED SIGNAGE & PAVEMENT MARKINGS

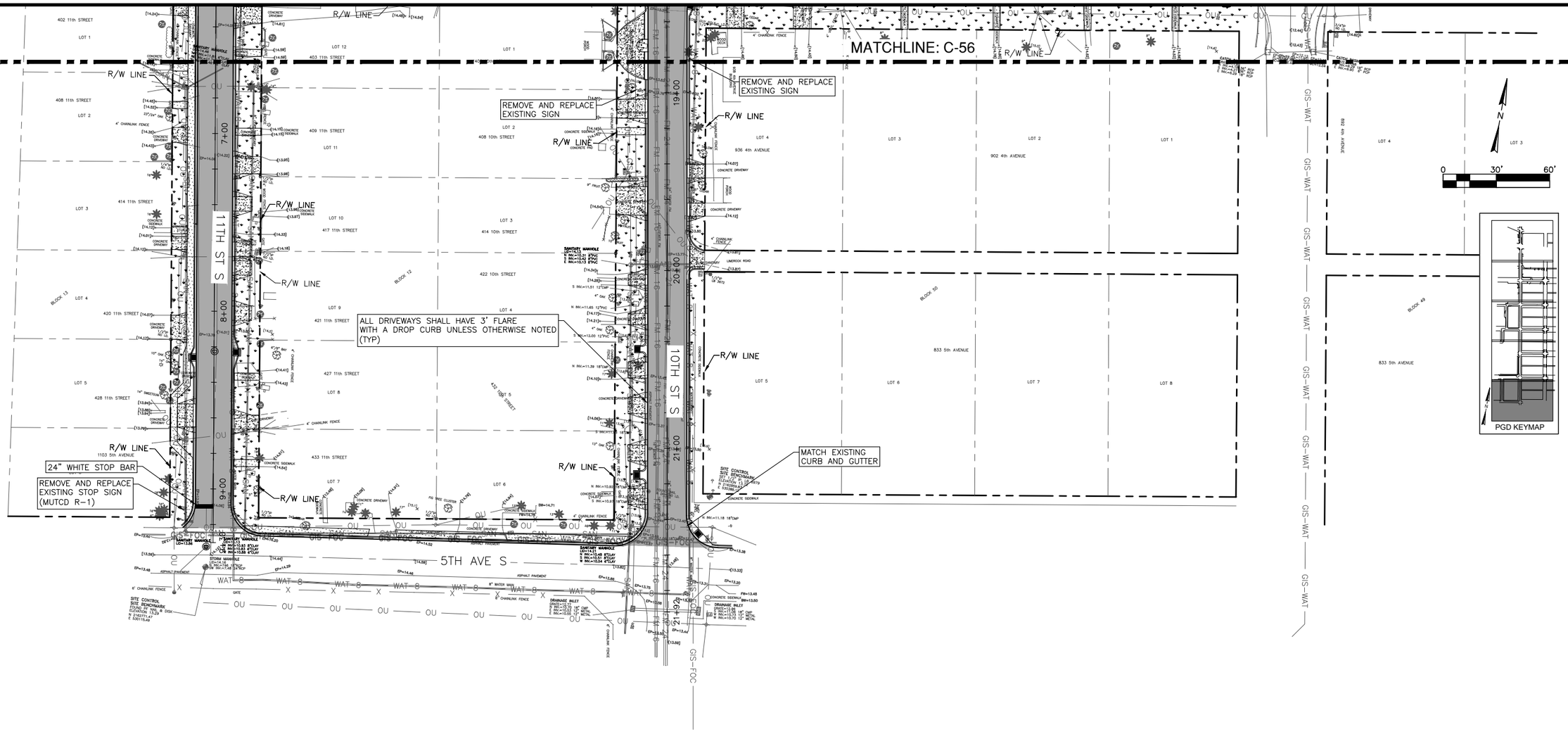
CITY OF JACKSONVILLE BEACH, FL

DESIGN	DRAWN	JOB #	ISSUE DATE	ISSUE
MRK	BRH	19-1023	SEPTEMBER 2025	BID

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DRAWING NUMBER
C-56

CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II



SURVEY NOTES PER SHEET G-2:

2. BEARINGS AND COORDINATES SHOWN HEREIN REFER TO THE FLORIDA STATE PLANE COORDINATE SYSTEM FOR THE FLORIDA EAST ZONE (901), NORTH AMERICAN DATUM OF 1983 (NAD 83) AND WERE DERIVED FROM GPS OBSERVATIONS UTILIZING OPUS RS-SOLUTIONS AS PROVIDED BY THE NATIONAL GEODETIC SURVEY (NGS) AND ARE EXPRESSED IN U.S. SURVEY FEET.

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

PROPOSED SIGNAGE & PAVEMENT MARKINGS

CITY OF JACKSONVILLE BEACH, FL.

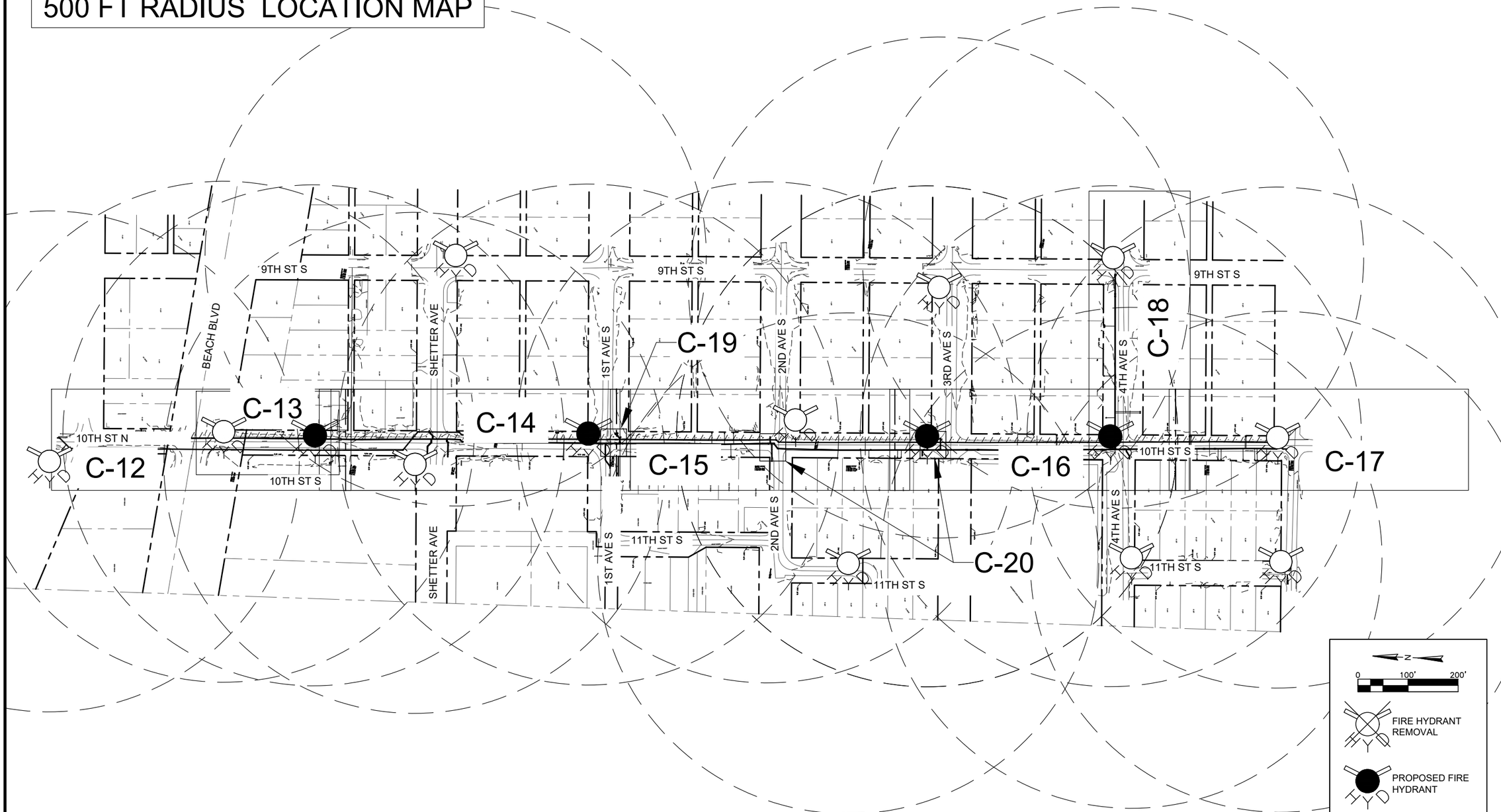
DESIGN	MRK	JOB #	19-1023
DRAWN	BRH	ISSUE DATE	SEPTEMBER 2025
		ISSUE	BID

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DRAWING NUMBER
C-57

CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II

FIRE HYDRANT
500 FT RADIUS LOCATION MAP



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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

FIRE HYDRANT LOCATION

CITY OF JACKSONVILLE BEACH, FL

DESIGN	MRK	DRAWN	BRH
JOB #	19-1023	ISSUE DATE	SEPTEMBER 2025
ISSUE	BID		

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DRAWING NUMBER
C-58

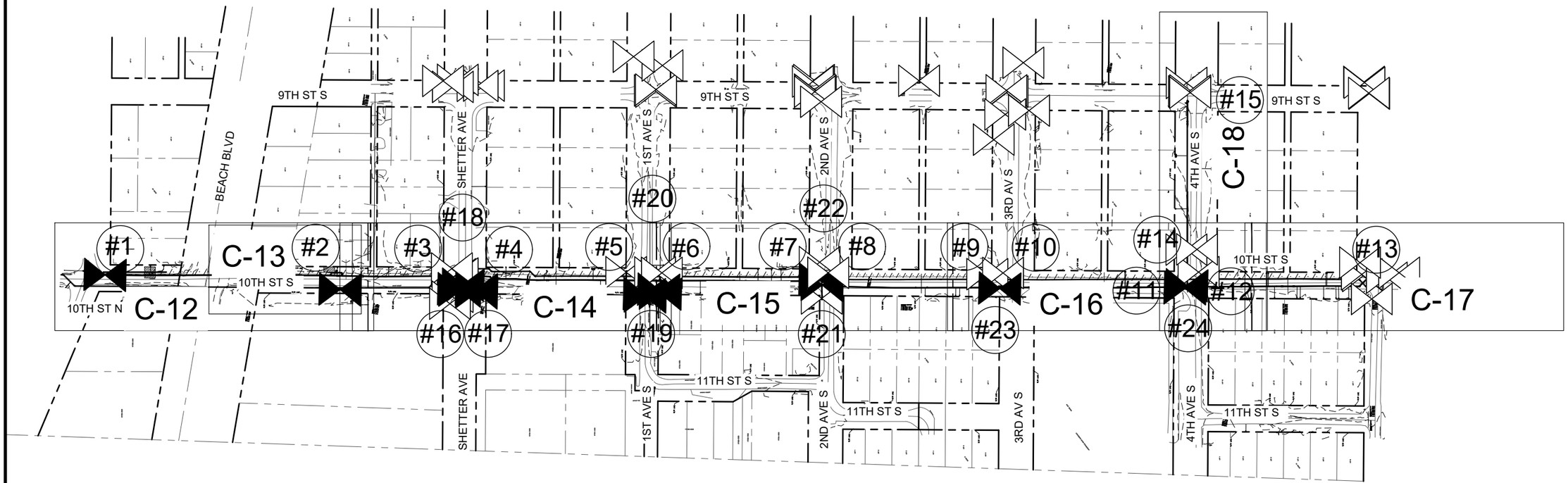
CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II

LAST EDITED BY: BRIAN HAMIL

CAD FILE: R:\19-1023 COJB 10TH ST\X\CDS\HYDRANT MAP.DWG

PLOT DATE AND TIME: 9/26/2025 9:08:25 AM

TEMPORARY SAMPLE TAP AND VALVE LOCATION MAP



0 100' 200'

PROPOSED VALVE

EXISTING VALVE

#_ SAMPLE POINT LOCATIONS

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

VALVE AND SAMPLE TAP LOCATION

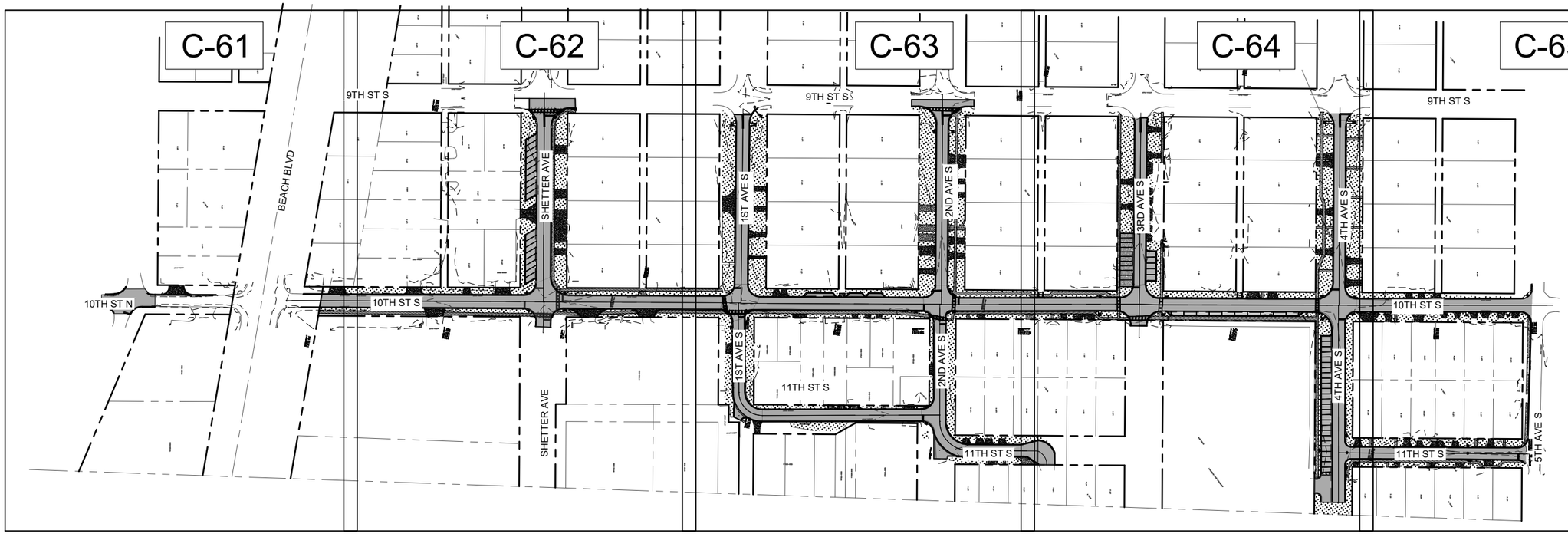
CITY OF JACKSONVILLE BEACH, FL

DESIGN MRK	DRAWN BRH		
JOB #	19-1023	ISSUE DATE	SEPTEMBER 2025
		ISSUE	BID

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DRAWING NUMBER
C-59

CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II



SURVEY NOTES PER SHEET G-2:

2. BEARINGS AND COORDINATES SHOWN HEREIN REFER TO THE FLORIDA STATE PLANE COORDINATE SYSTEM FOR THE FLORIDA EAST ZONE (901), NORTH AMERICAN DATUM OF 1983 (NAD 83) AND WERE DERIVED FROM GPS OBSERVATIONS UTILIZING OPUS RS-SOLUTIONS AS PROVIDED BY THE NATIONAL GEODETIC SURVEY (NGS) AND ARE EXPRESSED IN U.S. SURVEY FEET.

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

SEDIMENT AND EROSION CONTROL - KEY MAP

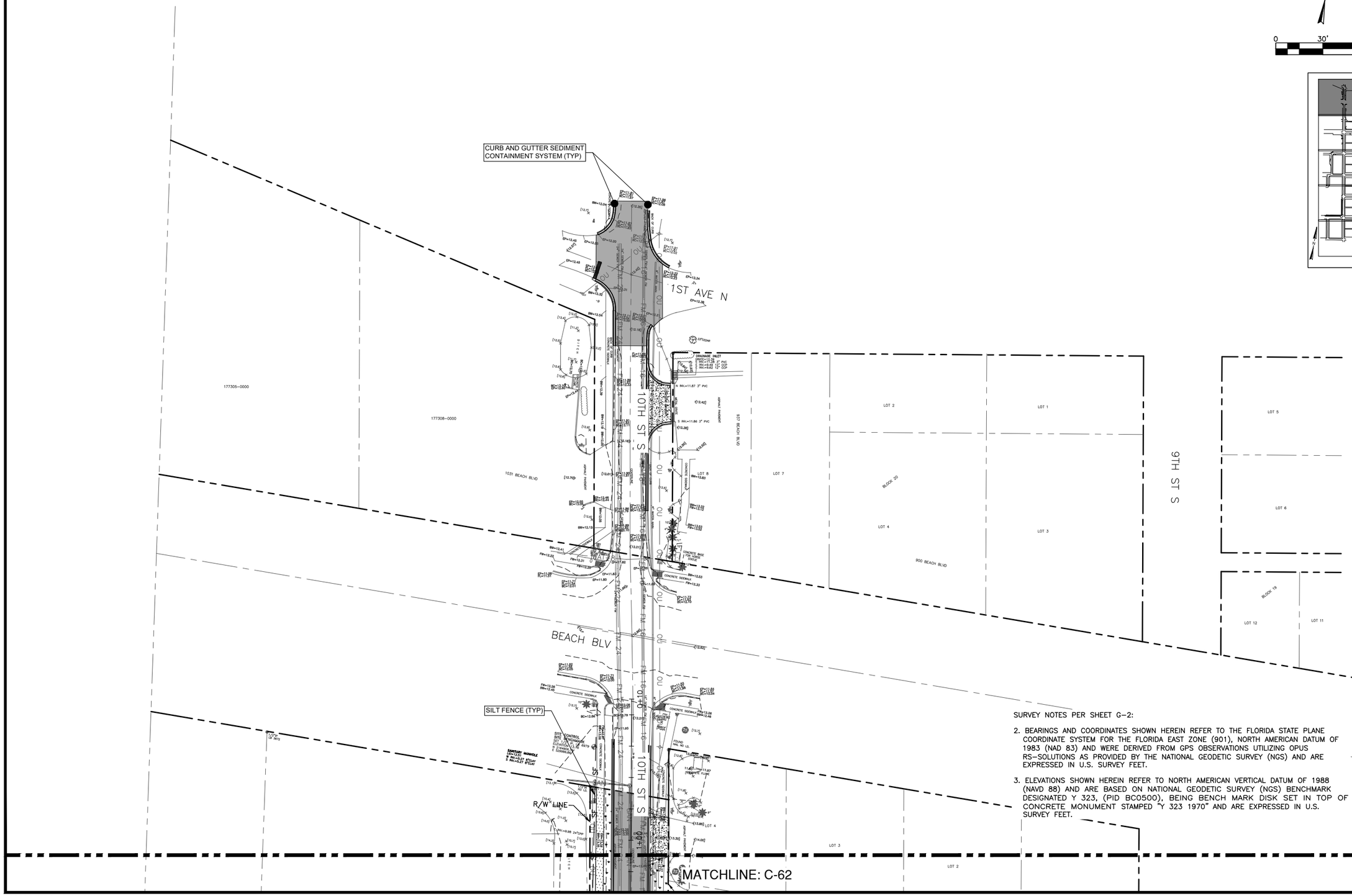
CITY OF JACKSONVILLE BEACH, FL

DESIGN	MRK	JOB #	19-1023
DRAWN	BRH	ISSUE DATE	SEPTEMBER 2025
		ISSUE	BID

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DRAWING NUMBER
C-60

CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II



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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

SEDIMENT AND EROSION CONTROL

CITY OF JACKSONVILLE BEACH, FL.

DESIGN	MRK	JOB #	19-1023
DRAWN	BRH	ISSUE DATE	SEPTEMBER 2025
		ISSUE	BID

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904-414-2400 C.O.A.# 31101 WWW.4WENG.COM

DRAWING NUMBER
C-61

CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II

MATCHLINE: C-61

MATCHLINE: C-63

SILT FENCE (TYP)

INLET PROTECTION (TYP)

CURB AND GUTTER SEDIMENT CONTAINMENT SYSTEM (TYP)

SURVEY NOTES PER SHEET G-2:

2. BEARINGS AND COORDINATES SHOWN HEREIN REFER TO THE FLORIDA STATE PLANE COORDINATE SYSTEM FOR THE FLORIDA EAST ZONE (901), NORTH AMERICAN DATUM OF 1983 (NAD 83) AND WERE DERIVED FROM GPS OBSERVATIONS UTILIZING OPUS RS-SOLUTIONS AS PROVIDED BY THE NATIONAL GEODETIC SURVEY (NGS) AND ARE EXPRESSED IN U.S. SURVEY FEET.

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

SEDIMENT AND EROSION CONTROL

CITY OF JACKSONVILLE BEACH, FL

DESIGN	DRAWN	JOB #	ISSUE DATE	ISSUE
MRK	BRH	19-1023	SEPTEMBER 2025	BID

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DRAWING NUMBER
C-62

CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II

LAST EDITED BY: BRIAN HAMIL

CAD FILE: R:\19-1023 COJB 10TH ST\X\CDS\EROSION CONTROL.DWG

PLOT DATE AND TIME: 9/26/2025 9:09:14 AM

MATCHLINE: C-62

MATCHLINE: C-64

CURB AND GUTTER SEDIMENT CONTAINMENT SYSTEM

SILT FENCE (TYP)

INLET PROTECTION (TYP)

1ST AVE S

2ND AVE S

10TH ST S

11TH ST S

9TH ST S

SURVEY NOTES PER SHEET G-2:

2. BEARINGS AND COORDINATES SHOWN HEREIN REFER TO THE FLORIDA STATE PLANE COORDINATE SYSTEM FOR THE FLORIDA EAST ZONE (901), NORTH AMERICAN DATUM OF 1983 (NAD 83) AND WERE DERIVED FROM GPS OBSERVATIONS UTILIZING OPUS RS-SOLUTIONS AS PROVIDED BY THE NATIONAL GEODETIC SURVEY (NGS) AND ARE EXPRESSED IN U.S. SURVEY FEET.

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MICHAEL R. KLINK
LICENSE
No. 71840
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

SEDIMENT AND EROSION CONTROL

CITY OF JACKSONVILLE BEACH, FL.

DESIGN	DRAWN	
MRK	BRH	
JOB #	ISSUE DATE	ISSUE
19-1023	SEPTEMBER 2025	BID

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904-414-2400 C.O.A.# 31101 WWW.4WENG.COM

DRAWING NUMBER
C-63

CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II

LAST EDITED BY: BRIAN HAMIL

CAD FILE: R:\19-1023 COJB 10TH ST\X\CDS\EROSION CONTROL.DWG

PLOT DATE AND TIME: 9/26/2025 9:09:25 AM

MATCHLINE: C-63

SURVEY NOTES PER SHEET G-2:

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INLET PROTECTION (TYP)

SILT FENCE (TYP)

CURB AND GUTTER SEDIMENT CONTAINMENT SYSTEM

CURB AND GUTTER SEDIMENT CONTAINMENT SYSTEM

10TH ST S

9TH ST S

3RD AVE S

4TH AVE S

MATCHLINE: C-65

0 30' 60'

MICHAEL R. KLINK
LICENSE
No. 71840
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

SEDIMENT AND EROSION CONTROL

CITY OF JACKSONVILLE BEACH, FL

DESIGN	MRK	JOB #	19-1023
DRAWN	BRH	ISSUE DATE	SEPTEMBER 2025
		ISSUE	BID

FOUR WATERS ENGINEERING
324 6th AVE N. JACKSONVILLE BEACH, FLORIDA 32250
904-414-2400 C.O.A.# 31101 WWW.4WENG.COM

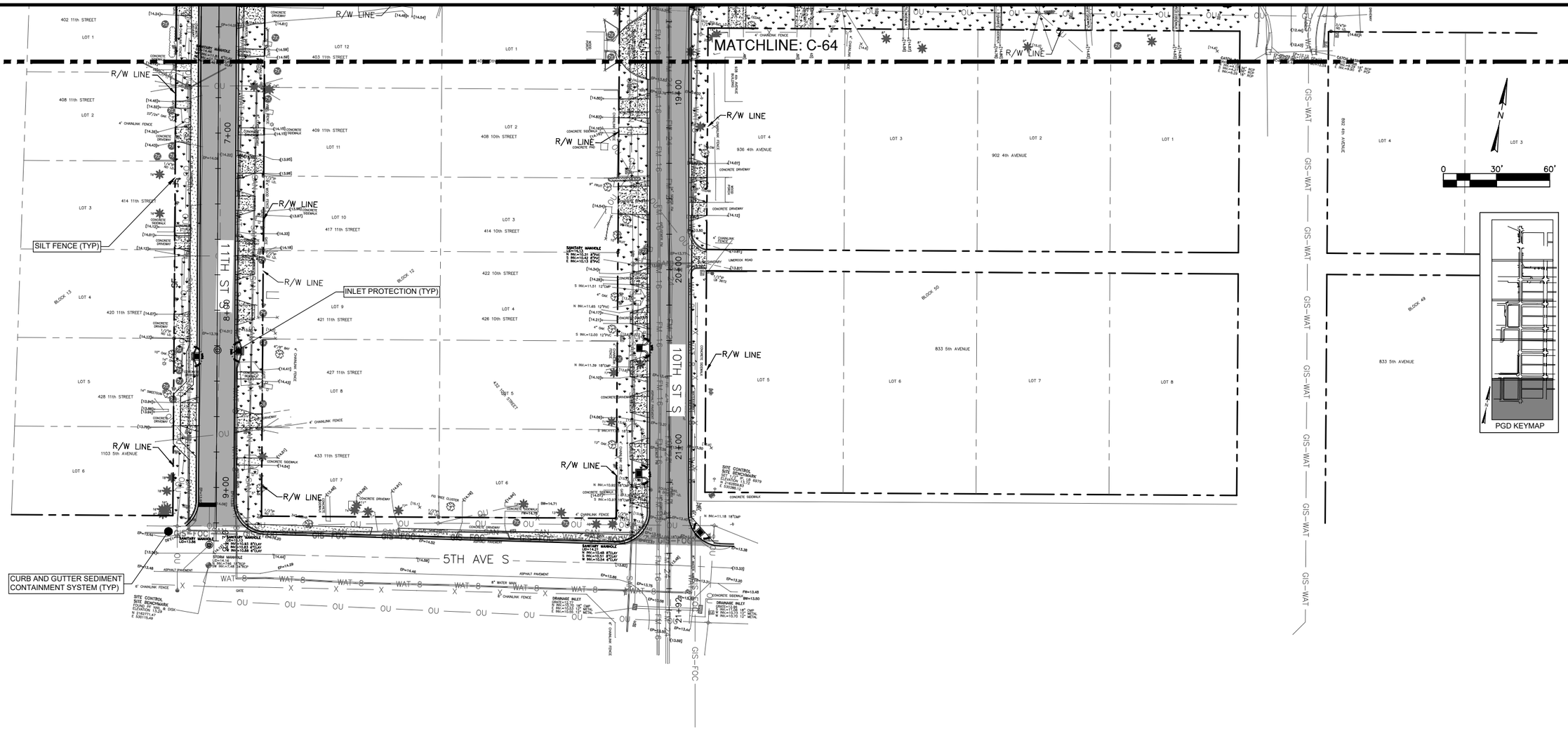
DRAWING NUMBER
C-64

CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II

LAST EDITED BY: BRIAN HAMIL

CAD FILE: R:\19-1023 COJB 10TH ST\X\CDS\EROSION CONTROL.DWG

PLOT DATE AND TIME: 9/26/2025 9:09:37 AM



SURVEY NOTES PER SHEET G-2:

2. BEARINGS AND COORDINATES SHOWN HEREIN REFER TO THE FLORIDA STATE PLANE COORDINATE SYSTEM FOR THE FLORIDA EAST ZONE (901), NORTH AMERICAN DATUM OF 1983 (NAD 83) AND WERE DERIVED FROM GPS OBSERVATIONS UTILIZING OPUS RS-SOLUTIONS AS PROVIDED BY THE NATIONAL GEODETIC SURVEY (NGS) AND ARE EXPRESSED IN U.S. SURVEY FEET.

3. ELEVATIONS SHOWN HEREIN REFER TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) AND ARE BASED ON NATIONAL GEODETIC SURVEY (NGS) BENCHMARK DESIGNATED Y 323, (PID BC0500), BEING BENCH MARK DISK SET IN TOP OF CONCRETE MONUMENT STAMPED "Y 323 1970" AND ARE EXPRESSED IN U.S. SURVEY FEET.

MICHAEL R. KLINK
LICENSE
No. 71840
STATE OF FLORIDA
PROFESSIONAL ENGINEER

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY MICHAEL R. KLINK, PE ON THE DATE ADJACENT TO THE SEAL. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

REV NO	DATE	DRWN BY	CHKD BY	DESCRIPTION
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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

SEDIMENT AND EROSION CONTROL

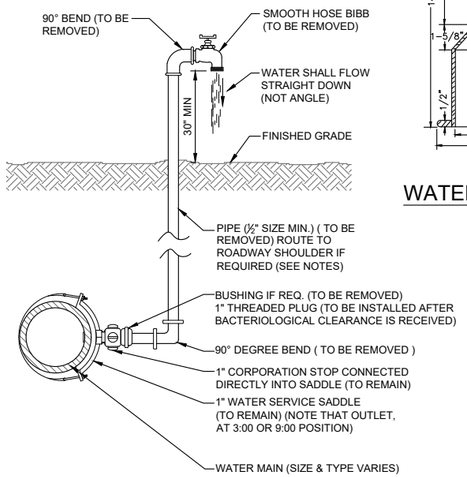
CITY OF JACKSONVILLE BEACH, FL.

DESIGN	MRK	JOB #	19-1023
DRAWN	BRH	ISSUE DATE	SEPTEMBER 2025
		ISSUE	BID

FOUR WATERS ENGINEERING
324 6th AVE N, JACKSONVILLE BEACH, FLORIDA 32250
904-414-2400 C.O.A.# 31101 WWW.4WENG.COM

DRAWING NUMBER
C-65

CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II

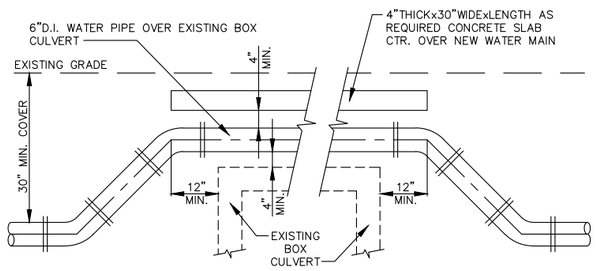


NOTES:

1. LOCATION OF SAMPLE POINT BIBB SHALL NOT BE WITHIN THE ROADWAY BUT ROUTED TO THE ROADWAY SHOULDERS (NON-TRAFFIC AREAS).
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY PIPING & FITTINGS (AS NOTED), AFTER BACTERIOLOGICAL CLEARANCE IS RECEIVED.
3. PIPE AND FITTINGS SHALL BE PVC (SCH. 40) OR GALV. MATERIAL.
4. THE USE OF THE ABOVE CONSTRUCTION FOR A TEMPORARY SAMPLE POINT SHALL BE LIMITED TO AREAS WHERE A SAMPLE TAP BY ALTERNATIVE METHODS (SEE W-24) IS NOT FEASIBLE OR IF DIRECTED OTHERWISE BY THE CITY.
5. THE CONTRACTOR SHALL COMPLY WITH ALL CITY RULES AND POLICIES AS AS OUTLINED BY THE CITY'S ENVIRONMENTAL RESPONSE COORDINATOR (ERC) AND OTHER ASSOCIATED CITY STANDARDS.

TEMPORARY SAMPLE TAP

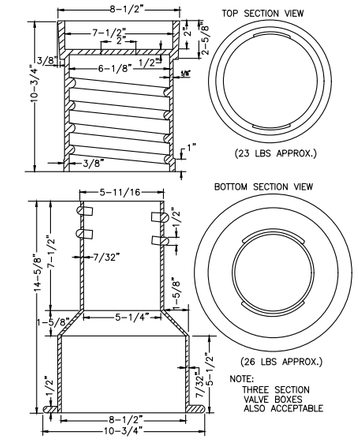
N.T.S.



ALL FITTINGS USED IN THIS TRANSITION ARE TO BE D.I. MJ RESTRAINED.

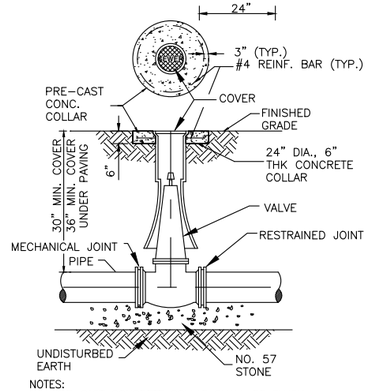
CULVERT TRANSITION - DETAIL 1

N.T.S.



WATER SYSTEM VALVE BOX

N.T.S.

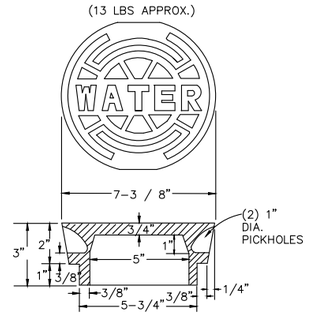


NOTES:

1. PRE-CAST CONCRETE COLLAR SHALL BE FLUSH WITH GRADE, AND SHALL BE INCLUDED AS PART OF THE COST OF EACH WATER VALVE.

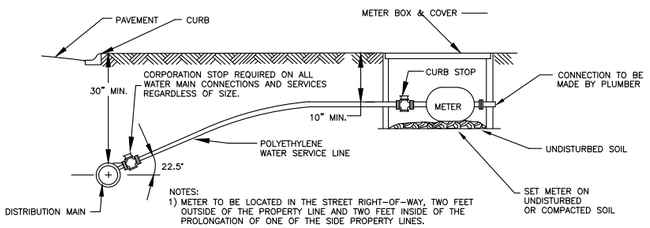
VALVE BOX DETAIL

NOT TO SCALE



WATER SYSTEM VALVE BOX COVER

N.T.S.



NOTES:

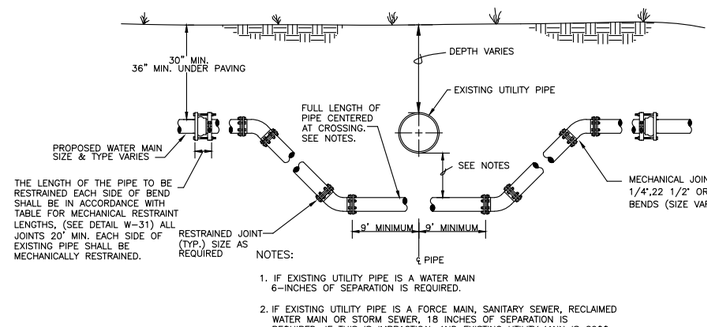
1) METER TO BE LOCATED IN THE STREET RIGHT-OF-WAY, TWO FEET OUTSIDE OF THE PROPERTY LINE AND TWO FEET INSIDE OF THE PROLONGATION OF ONE OF THE SIDE PROPERTY LINES.

2) LOCATING WIRING & WARNING TAPE REQUIRED ON SERVICES & WATER MAINS.

3) NO OPEN CUT UNDER ROADWAY PAVING ALLOWED UNLESS THE ROADWAY IS BEING RECONSTRUCTED OR IF DIRECTED OTHERWISE BY THE ENGINEER.

SERVICE METER INSTALLATION

NOT TO SCALE

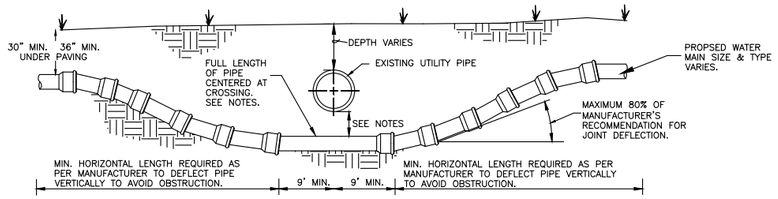


NOTES:

1. IF EXISTING UTILITY PIPE IS A WATER MAIN 6-INCHES OF SEPARATION IS REQUIRED.
2. IF EXISTING UTILITY PIPE IS A FORCE MAIN, SANITARY SEWER, RECLAIMED WATER MAIN OR STORM SEWER, 18 INCHES OF SEPARATION IS REQUIRED. IF THIS IS IMPRACTICAL AND EXISTING UTILITY MAIN IS C900, C905 OR D.I. PIPE, SEPARATION CAN BE REDUCED TO 6-INCHES. A FULL LENGTH OF PIPE SHALL BE CENTERED UNDER EXISTING UTILITY MAIN TO PROVIDE MAXIMUM JOINT SPACING FOR ALL CROSSINGS.
3. LOCATING WIRING REQUIRED. SEE SHT. 7.

ADJ. UNDER EXIST. UTILITIES

N.T.S.

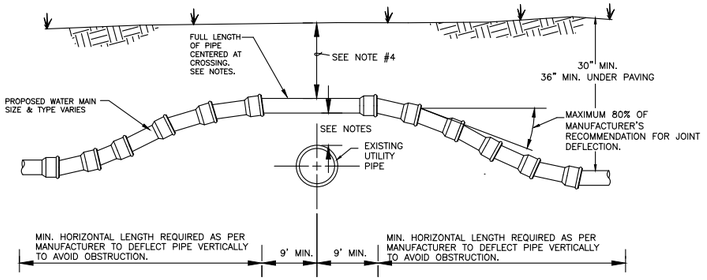


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3. LOCATING WIRING REQUIRED. SEE SHT. 7.

ADJ. UNDER EXIST. UTILITIES (PIPE DEFLECTION)

N.T.S.

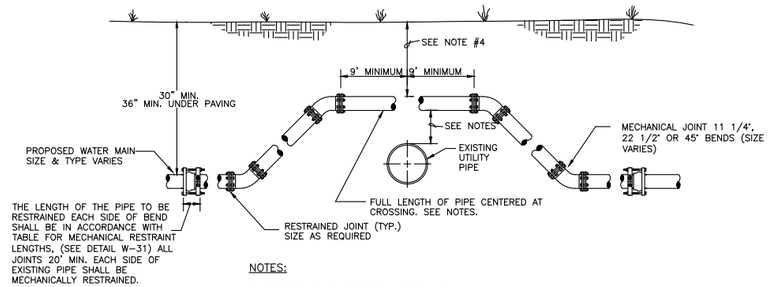


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3. LOCATING WIRING REQUIRED. SEE SHT. 7.
4. DEPTH OF BURY TO BE 36" MINIMUM IN PAVED AREAS MEASURED FROM FINISHED GRADE. DEPTH OF BURY TO BE 30" MINIMUM IN UNPAVED AREAS.

ADJ. OVER EXIST. UTILITIES (PIPE DEFLECTION)

N.T.S.



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ADJ. OVER EXIST. UTILITIES

N.T.S.

MICHAEL R. KLINK LICENSE No. 71840 STATE OF FLORIDA PROFESSIONAL ENGINEER

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REV NO	DATE	DRWN BY	CHKD BY	DESCRIPTION
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10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II

CONSTRUCTION DETAILS

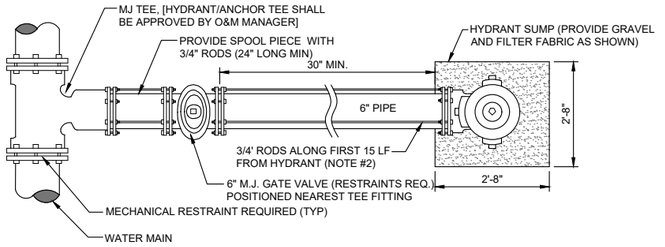
CITY OF JACKSONVILLE BEACH, FL.

DESIGN	DRAWN		
MRK	BRH		
JOB #	ISSUE DATE	ISSUE	
19-1023	SEPTEMBER 2025	BID	

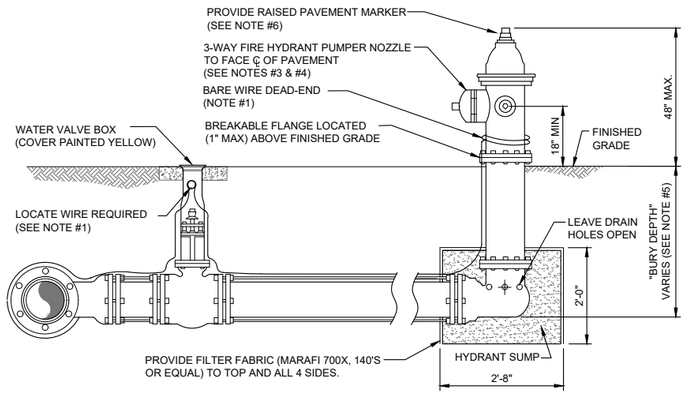
FOUR WATERS ENGINEERING
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DRAWING NUMBER
D-1

CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II



PLAN



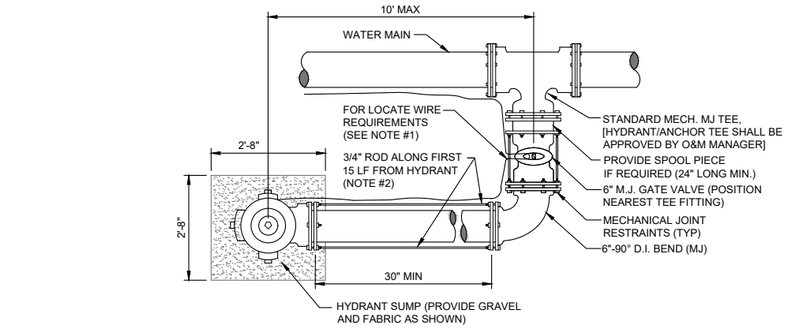
SECTION

NOTES:

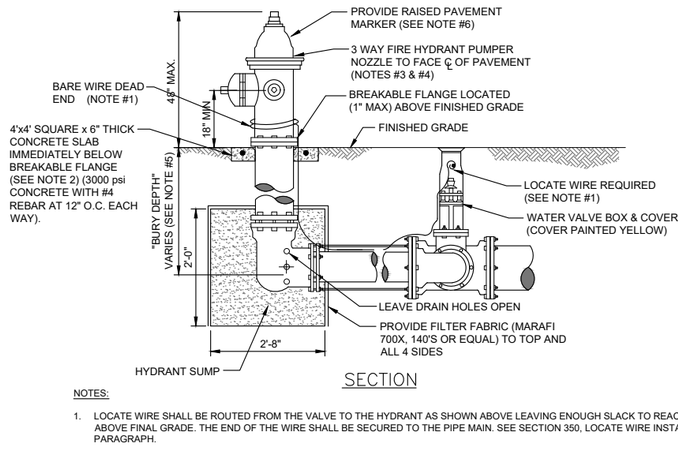
1. LOCATE WIRE SHALL BE ROUTED FROM THE VALVE TO THE HYDRANT AS SHOWN ABOVE LEAVING ENOUGH SLACK TO REACH 4' ABOVE FINAL GRADE. THE END OF THE WIRE SHALL BE SECURED TO THE PIPE MAIN. SEE SECTION 350, LOCATE WIRE INSTALLATION PARAGRAPH.
2. FIRE HYDRANTS SHALL BE INSTALLED BETWEEN BACK OF CURB AND FACE OF SIDEWALK AND NOT WITHIN SWALE/DITCH AREAS. THE DISTANCE RANGE FROM EDGE OF ADJACENT PAVEMENT, BACK OF CURB AND FACE OF SIDEWALK SHALL BE IN COMPLIANCE WITH LOCAL COUNTY FIRE DEPARTMENT RULES AND AS APPROVED BY THE CITY OF JACKSONVILLE BEACH AND APPLICABLE PERMITTING AGENCIES. DISTANCE SHALL BE MEASURED TO THE CLOSEST PART OF THE FIRE HYDRANT (I.E. THE PUMPER NOZZLE). THE MAXIMUM DISTANCE (BACK OF CURB) SHALL BE IN COMPLIANCE WITH LOCAL COUNTY FIRE DEPARTMENT RULES AND AS APPROVED BY THE CITY OF JACKSONVILLE BEACH. IF PIPING BETWEEN TEE AND HYDRANT IS LONGER THAN 80 LF, AN ADDITIONAL 6" GATE VALVE IS REQUIRED AT THE HYDRANT LOCATION (PROVIDE 30" SEPARATION). ALL PIPING, VALVES AND FITTINGS ALONG THE HYDRANT BRANCH MAIN WHICH IS WITHIN 15 LF OF THE HYDRANT SHALL BE RESTRAINED UTILIZING ONLY TWO 3/4" DIA (THREADED ENDS) STEEL RODS AND EYE BOLTS (NO JOINT RESTRAINT DEVICES REQUIRED). A SPLIT SERRATED RING WITH RESTRAINT EARS (EBAA 15 PF06 or EQUAL) MAYBE USED IN THIS ASSEMBLY. ALL OTHER JOINTS ALONG THE HYDRANT BRANCH MAIN OUTSIDE OF THE FIRST 15 LF SHALL INCLUDE JOINT RESTRAINTS.
3. NO WATER MAIN BRANCHES OR SERVICE TAPS SHALL BE ALLOWED ALONG THE HYDRANT BRANCH MAIN, UNLESS APPROVED BY THE CITY OF JACKSONVILLE BEACH.
4. OPERATION OF THE FIRE HYDRANT SHALL BE EITHER FULL OPEN POSITION OR TOTALLY CLOSED POSITION. THE HYDRANT SHALL NOT BE UTILIZED TO THROTTLE OUTLET FLOW.
5. PRIOR TO PROJECT FINAL INSPECTION, THE HYDRANT AND ALL ABOVE GROUND PIPING SHALL BE RE-OILED, GREASED AND REPAINTED (RUS- KIL ENAMEL-INTERNATIONAL YELLOW OR EQUAL). PRIVATELY OWNED AND MAINTAINED FIRE HYDRANTS SHALL BE PAINTED RED.
6. FIRE HYDRANTS SHALL BE ORDERED WITH PROPER "BURY DEPTH" TO MEET ACTUAL FIELD CONDITIONS. THIS IS ESPECIALLY IMPORTANT FOR BRANCH LINES WHICH TEE-OFF A 12" OR LARGER WATER MAIN. UNLESS APPROVED OTHERWISE BY THE CITY OF JACKSONVILLE BEACH, THE INSTALLATION OF (45°) BENDS IS NOT ACCEPTABLE WHEN UTILIZED TO CORRECT AN IMPROPERLY FURNISHED HYDRANT. THE USE OF HYDRANT EXTENSIONS SHOULD BE MINIMIZED.
7. BLUE REFLECTIVE MARKERS SHALL BE INSTALLED IN SUCH A MANNER THAT THE REFLECTIVE FACE OF THE MARKER IS PERPENDICULAR TO A LINE PARALLEL TO THE ROADWAY CENTERLINE. THE BLUE REFLECTIVE MARKERS SHALL BE PLACED IN THE CENTER OF THE TRAVEL LANE, DIRECTLY ACROSS FROM AND ADJACENT TO EACH FIRE HYDRANT.

FIRE HYDRANT INSTALLATION USING MECHANICAL JOINT TEE

NOT TO SCALE



PLAN



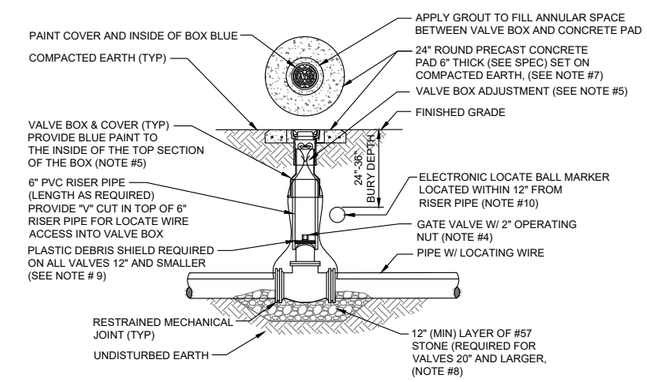
SECTION

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1. LOCATE WIRE SHALL BE ROUTED FROM THE VALVE TO THE HYDRANT AS SHOWN ABOVE LEAVING ENOUGH SLACK TO REACH 4' ABOVE FINAL GRADE. THE END OF THE WIRE SHALL BE SECURED TO THE PIPE MAIN. SEE SECTION 350, LOCATE WIRE INSTALLATION PARAGRAPH.
2. FIRE HYDRANTS SHALL BE INSTALLED BETWEEN BACK OF CURB AND FACE OF SIDEWALK. ALL HYDRANTS SHALL BE LOCATED NO LESS THAN THREE (3) FEET FROM THE EDGE OF PAVEMENT OR BACK OF CURB OF THE ADJACENT ROADWAY AND NO LESS THAN THREE (3) FEET FROM ANY PHYSICAL FEATURE WHICH MAY OBSTRUCT ACCESS OR VIEW OF ANY HYDRANT UNLESS OTHERWISE APPROVED BY THE THE CITY OF JACKSONVILLE BEACH. THE MAXIMUM DISTANCE (BACK OF CURB) SHALL BE IN COMPLIANCE WITH LOCAL COUNTY FIRE DEPARTMENT RULES AND AS APPROVED BY THE CITY OF JACKSONVILLE BEACH. IF PIPING BETWEEN TEE AND HYDRANT IS LONGER THAN 80 LF, AN ADDITIONAL 6" GATE VALVE IS REQUIRED AT THE HYDRANT LOCATION (PROVIDE 30" SEPARATION). ALL PIPING, VALVES AND FITTINGS ALONG THE HYDRANT BRANCH MAIN WHICH IS WITHIN 15 LF OF THE HYDRANT SHALL BE RESTRAINED UTILIZING ONLY TWO 3/4" DIA (THREADED ENDS) STEEL RODS AND EYE BOLTS (NO JOINT RESTRAINT DEVICES REQUIRED). A SPLIT SERRATED RING WITH RESTRAINT EARS (EBAA 15 PF06 or EQUAL) MAYBE USED IN THIS ASSEMBLY. ALL OTHER JOINTS ALONG THE HYDRANT BRANCH MAIN OUTSIDE OF THE FIRST 15 LF SHALL INCLUDE JOINT RESTRAINTS.
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7. BLUE REFLECTIVE MARKERS SHALL BE INSTALLED IN SUCH A MANNER THAT THE REFLECTIVE FACE OF THE MARKER IS PERPENDICULAR TO A LINE PARALLEL TO THE ROADWAY CENTERLINE. THE BLUE REFLECTIVE MARKERS SHALL BE PLACED IN THE CENTER OF THE TRAVEL LANE, DIRECTLY ACROSS FROM AND ADJACENT TO EACH FIRE HYDRANT.

FIRE HYDRANT INSTALLATION LIMITED SPACE

NOT TO SCALE



NOTES:

1. FOR UNPAVED LOCATIONS, A PRECAST CONCRETE VALVE PAD SHALL BE PROVIDED AND INSTALLED FLUSH WITH GRADE. CONCRETE PAD IS NOT REQUIRED FOR VALVE LOCATED IN THE ROADWAY, UNLESS SHOWN OR NOTED OTHERWISE.
2. LOCATING WIRE IS REQUIRED ON ALL PRESSURE PIPING (SEE DETAILW-44).
3. A "V" CUT SHALL BE CARVED IN THE CURB CLOSEST/ADJACENT/(ASPHALT IF NO CURB) TO ALL BELOW GRADE VALVES. THE "V" CUT IS TO BE PAINTED BLUE WATER/PURPLE RECLAIMED.
4. IN PAVED AREAS, INSTALL VALVE AT A DEPTH TO ALLOW A 12" MIN. DISTANCE BETWEEN THE VALVE COVER PLATE AND THE TOP OF THE VALVE OPERATING NUT. OUTSIDE OF PAVED AREAS (GRASS), INSTALL VALVE AT A DEPTH TO ALLOW A 6" MINIMUM DISTANCE BETWEEN THE VALVE COVER AND THE TOP OF THE VALVE OPERATING NUT. OPERATING NUT/STEM EXTENSION SHALL BE PROVIDED (WHERE APPLICABLE) SO THAT THE OPERATING NUT WILL BE NO MORE THAN 30 INCHES BELOW FINISHED GRADE.
5. FOR NEW CONSTRUCTION, THE VALVE BOX SHALL BE ADJUSTED TO MIDRANGE TO ALLOW FOR FUTURE BOX ADJUSTMENTS. ROUTE LOCATE WIRES THRU A "V" CUT IN THE TOP OF THE 6" PVC RISER PIPE FOR LOCATE WIRE ACCESS INTO VALVE BOX. THE LOCATE WIRES WITH A 24" LONG PIG-TAIL AT THE TOP SHALL BE CONNECTED TOGETHER WITH A WIRE NUT.
6. BRASS IDENTIFICATION TAG INDICATING "WATER", VALVE SIZE, DIRECTION AND TURNS TO OPEN & VALVE TYPE. PROVIDE A ¼" HOLE IN BRASS TAG AND ATTACH TAG (TWIST WIRE AROUND TAG) TO THE END OF THE LOCATE WIRE. TAGS ARE NOT REQUIRED ON VALVES INSTALLED ON FIRE HYDRANT BRANCH LINES.
7. IN LIEU OF PRECAST CONCRETE PAD, A 6" THICK X 24" (ROUND OR SQUARE) POURED CONCRETE PAD W/2 - #4 REBAR AROUND PERIMETER, MAY BE USED.
8. GRAVEL SHALL BE PROVIDED UNDER ALL VALVES 20" AND LARGER. THE MINIMUM VERTICAL LIMIT OF GRAVEL IS 12" UNDER THE VALVE UP TO ¾ THE OVERALL HEIGHT OF THE VALVE.
9. FOR VALVES 12 INCH AND SMALLER, PROVIDE A WHITE OR BLACK PLASTIC DEBRIS SHIELD WHICH INSTALLS BELOW THE OPERATING NUT. THIS SHIELD SHALL CENTER THE RISER PIPE BOX OVER THE OPERATING NUT AND MINIMIZE INFILTRATION. SHIELD SHALL BE BY AFC, BOXLOK OR APPROVED EQUAL.
10. ALL VALVES SHALL BE INSTALLED WITH AN ELECTRIC LOCATE MARKER. MARKER SHALL BE 4" DIA. COLOR CODED BALL MARKER (3M-1403XR FOR WATER AND 1408XR FOR RECLAIMED WATER).

WATER VALVE INSTALLATION DETAIL

MICHAEL R. KLINK LICENSE No. 71840 STATE OF FLORIDA PROFESSIONAL ENGINEER

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

CONSTRUCTION DETAILS

CITY OF JACKSONVILLE BEACH, FL

DESIGN	DRAWN		
MRK	BRH		
JOB #	19-1023	ISSUE DATE	SEPTEMBER 2025
		ISSUE	BID

FOUR WATERS ENGINEERING
324 6th AVE N, JACKSONVILLE BEACH, FLORIDA 32250
904-414-2400 C.O.A.# 31101 WWW.4WENG.COM

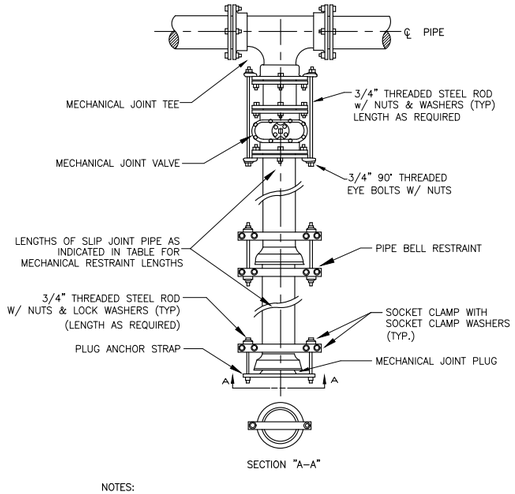
DRAWING NUMBER
D-2

CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II

MINIMUM LENGTH TO BE RESTRAINED ON EACH SIDE OF FITTING (FEET)									
NOMINAL PIPE SIZE (INCHES)	11 1/4° Horizontal Elbow	22 1/2° Horizontal Elbow	45° Horizontal Elbow	90° Horizontal Elbow	Horizontal Tees	Horizontal Plugs and Valves	45° Vertical Offset Upper length/low per length	22½° Vertical Offset Upper length/lower length	Reducer (to 1 size smaller) Length on Larger Size Side
4	2	4	8	20	20 –run 1 –branch	50	20/3	8 / 1	n/a
6	2	5	10	28	20 –run 1 –branch	70	28/4	11 / 2	28
8	3	6	14	36	20 –run 1 –branch	90	36/5	14 / 3	30
10	4	8	18	40	20 –run 1 –branch	110	45/6	17 / 3	29
12	4	9	20	50	20 –run 1 –branch	120	52/8	20 / 4	50
14	5	10	23	56	20 –run 10 – branch	140	60/9	23 / 4	30
16	6	11	26	60	20 –run 26 – branch	160	67/10	26 / 5	30
18	6	12	29	69	20 –run 41 – branch	180	74/12	29 / 5	29
20	7	13	32	75	20 –run 55 – branch	195	80/13	36 / 6	29
24	7	15	33	76	20 –run 58 – branch	200	81/14	37 / 7	55
30	9	18	36	88	20 –run 77 – branch	235	97/16	44 / 8	77
36	10	20	40	100	20 –run 115 – branch	270	110/20	51 / 10	77

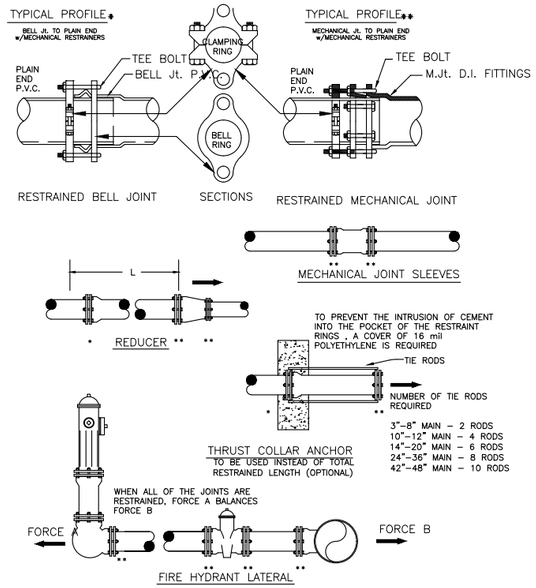
NOTES
1. TABLE ASSUMPTIONS: PVC PIPE, SAFETY FACTOR = 1.5, TEST PRESSURE = 150PSI SOIL = GM OR SM, 3 FT. BURY DEPTH TO TOP OF PIPE, TRENCH TYPE 3, BRANCH ON TEE IS ONE SIZE SMALLER THAN RUN OF TEE SIZE AND 20 FEET OF PIPE IS INSTALLED PAST THE TEE ON THE RUN SIDE (SMALLER BRANCH SIZES MUST BE CALCULATED BY THE ENGINEER). VERTICAL OFFSETS ARE 3 FEET DEEP ON TOP AND 8 FEET DEEP ON BOTTOM. REDUCERS ARE CALCULATED FOR ONE SIZE REDUCTION. OTHER CONDITIONS WILL REQUIRE ADDITIONAL CALCULATIONS.
2. ALL FITTINGS MUST BE RESTRAINED. ONE OF THE FOLLOWING METHODS MAY BE USED:
   A. MECHANICAL RESTRAINTS AT FITTING AND AT ADJACENT JOINTS TO A LENGTH AS SPECIFIED IN CHART.
   B. TIE RODS AT FITTING AND THROUGH JOINTS TO A LENGTH AS SPECIFIED IN CHART IF APPROVED BY CITY OF JACKSONVILLE BEACH
3. PAYMENT FOR RESTRAINTS AT FITTING SHALL BE INCLUDED WITH THE FITTING PAYMENT. PAYMENT FOR RESTRAINT AT DISTANCE "L" FROM FITTING SHALL BE AS IF 20 FT. JOINTS WERE INSTALLED.
4. VALVE RESTRAINTS SHALL BE RESTRAINED THE SAME DISTANCE AS HORIZONTAL PLUGS.

MECHANICAL RESTRAINT TABLE
NOT TO SCALE

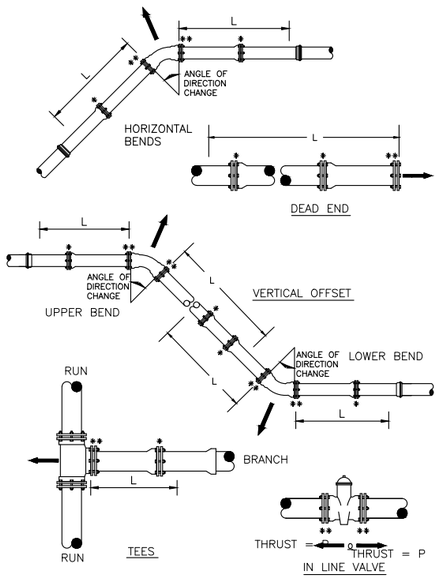


NOTES:
1. IN A STRAIGHT RUN DEAD END INSTALLATION THE VALVE SHALL BE RESTRAINED TO THE NEXT UPSTREAM PIPE JOINTS AS OUTLINED IN TABLE FOR MECHANICAL RESTRAINT LENGTHS
2. LOCATING WIRING REQUIRED.
3. ALL PIPE & FITTINGS SHOWN VARY IN SIZE
4. CONCRETE COLLARS WITH TIE–RODS MAY BE USED INSTEAD OF LENGTH OUTLINED IN TABLE FOR MECHANICAL RESTRAINT LENGTHS. SEE THIS SHEET

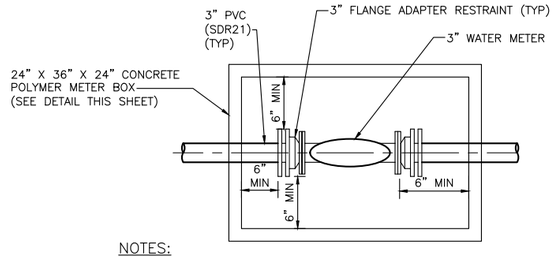
PLUGGED DEAD END
NOT TO SCALE



MECHANICAL RESTRAINT DETAILS
NOT TO SCALE

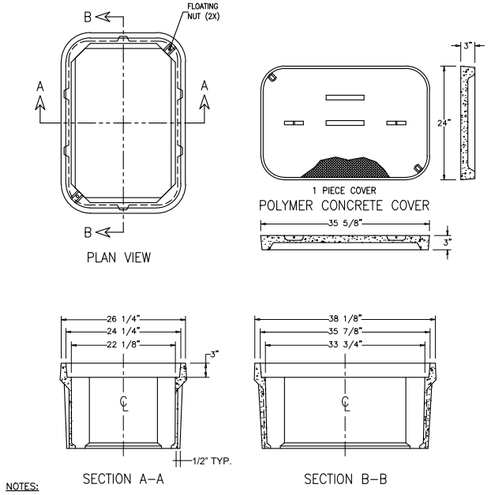


MECHANICAL RESTRAINT DETAILS
NOT TO SCALE



NOTES:
1. THE CITY OF JACKSONVILLE BEACH WILL PROVIDE THE 3" WATER METER.
2. FOR COPOLYMER WATER METER BOX DETAIL, SEE DETAIL THIS SHEET.
3. MAXIMUM COVER OF LARGE WATER METERS SHALL BE 36" (FROM TOP OF PIPE TO GRADE).
4. LOCATING WIRING REQUIRED FROM WATER MAIN TO METER BOX.

WATER METER BOX DETAIL
AS SHOWN



NOTES:
1. THE DIMENSIONS SHOWN ARE FOR A STANDARD 24" WIDE BY 36" LONG BY 24" DEEP BOX. ALL DIMENSIONS ARE SHOWN IN INCHES.
2. GRADE TO SLOPE AWAY FROM METER BOX.
3. DO NOT INSTALL METER BOX IN AREA SUBJECTED TO FLOODING.
4. LOCATING WIRING REQUIRED.
5. A 4" THICK CONCRETE BOTTOM SHALL BE CONSTRUCTED DURING THE BOX INSTALLATION.

24" x 36" x 24" CO-POLYMER WATER METER BOX
NOT TO SCALE

MICHAEL R. KLINK LICENSE No. 71840 STATE OF FLORIDA PROFESSIONAL ENGINEER

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

CONSTRUCTION DETAILS

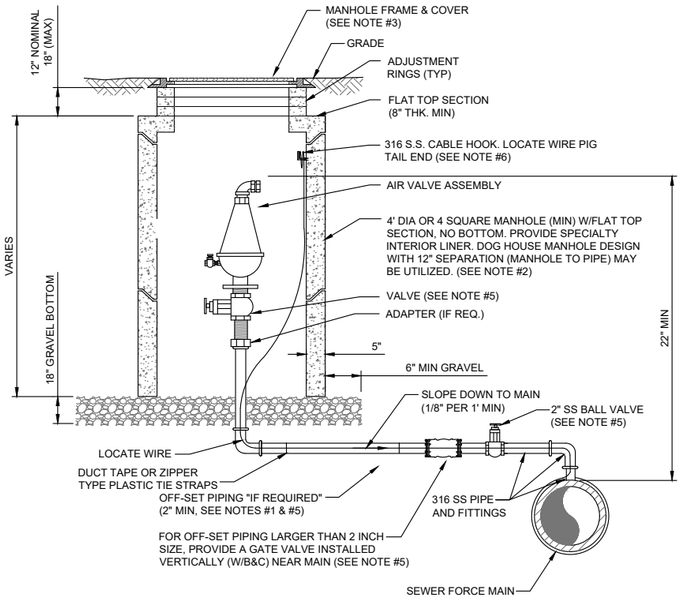
CITY OF JACKSONVILLE BEACH, FL

DESIGN	DRAWN		
MRK	BRH		
JOB #	19-1023		
ISSUE DATE	SEPTEMBER 2025		
ISSUE	BID		

FOUR WATERS ENGINEERING
324 6th AVE N, JACKSONVILLE BEACH, FLORIDA 32250
904-414-2400 C.O.A.# 31101 WWW.4WENG.COM

DRAWING NUMBER
D-3

CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II

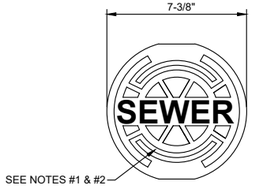


NOTES:

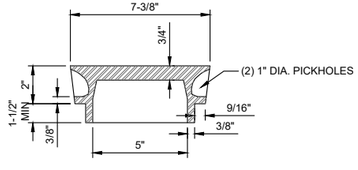
1. THE AIR ASSEMBLY MANHOLE SHALL BE LOCATED OUTSIDE OF THE ROADWAY PAVEMENT AREA (I.E. LOCATED IN NON-TRAFFIC AREAS). IF OFF-SET PIPING IS REQUIRED, THE PIPING SHALL BE 2 INCH MINIMUM, (SAME SIZE AS AIR VALVE INLET). FOR PIPE SIZES 3 INCH AND SMALLER: PIPING SHALL BE 316 STAINLESS STEEL SCH.40, STD GRADE, THREADED. FOR PIPE SIZES 4 INCH AND LARGER: PIPING SHALL BE 316 STAINLESS STEEL SCH. 10 (MIN), WELDED OR PVC DR-18 PIPE AND FITTINGS-RESTRAINED.
2. THE CONCRETE MANHOLE SHALL INCLUDE A POLYURETHANE SPECIALTY LINER (PER SPEC SECTION 446) TO BE INSTALLED ON THE INTERIOR SURFACES INCLUDING THE RISER SECTION TOP AND THE ADJUSTMENT RINGS. A BITUMINOUS WATERPROOFING MATERIAL SHALL BE PROVIDED ON THE OUTSIDE SURFACES OF THE MANHOLE.
3. FRAME AND COVER SHALL BE CITY STANDARD. THE COVER SHALL HAVE NO GASKET TO ALLOW AIR TO EXIT VAULT (REMOVE GASKET IF NECESSARY FROM THE UNDER SIDE OF STANDARD CITY COVER). THE COVER (WHEN FLIPPED OPEN) MUST CLEAR THE AIR VALVE ASSEMBLY AT ALL TIMES OR A SQUARE TOP WITH ALUMINUM DOOR SHALL BE PROVIDED (NON-TRAFFIC LOCATIONS ONLY).
4. FOR PIPE SIZES 3 INCH AND SMALLER, PROVIDE A STAINLESS STEEL BALL VALVE (2" MIN). FOR PIPE SIZES 4 INCH AND LARGER, PROVIDE A FLANGE GATE VALVE (WHEEL OPERATOR) OR PLUG VALVE. (LEVER ARM OPERATOR) SEE SPECIFICATION FOR ADDITIONAL REQUIREMENTS.
5. FOR A 2" AIR VALVE, PROVIDE 2" STAINLESS STEEL BALL VALVE AT THE MAIN. FOR AIR VALVES LARGER THAN 2" SIZE, PROVIDE A TAPPING SLEEVE OR DUCTILE IRON TEE FITTING. ALSO, FOR OFF-SET PIPING LARGER THAN 2 INCH SIZE, PROVIDE A GATE VALVE (INSTALLED VERTICALLY NEAR MAIN). SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
6. LOCATE WIRE SHALL HAVE ENOUGH SLACK TO REACH 4' ABOVE FINAL GRADE.

OPTIONAL LOW PROFILE AIR VALVE ASSEMBLY INSIDE MANHOLE

NTS

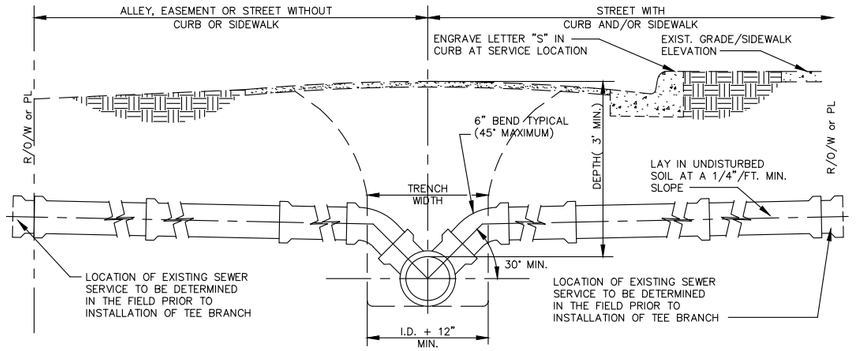


HEAVY DUTY RATING



NOTES:

1. PAINT TOP OF THE COVER WITH ENAMEL PAINT (GREEN COLOR).
2. LID WEIGHT: APPROX. 12 LBS.

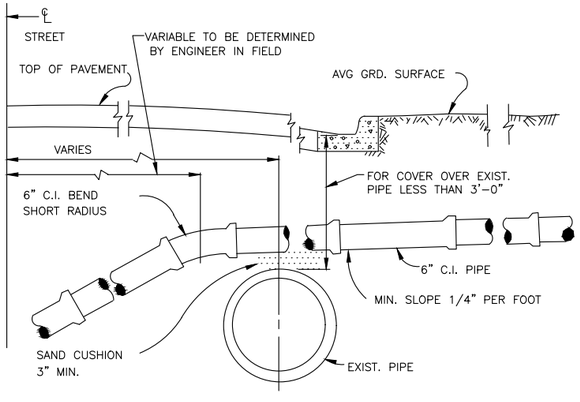


SEWER SERVICE LATERAL SECTION

N.T.S.

NOTES:

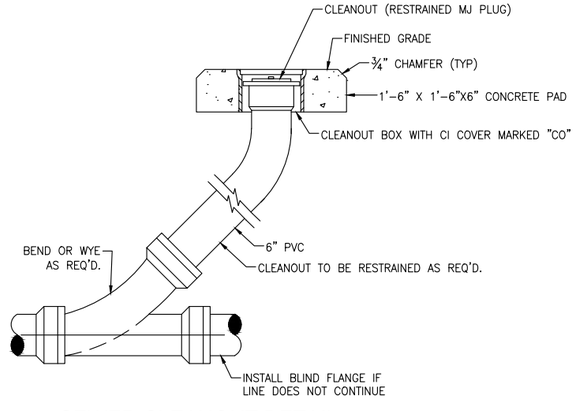
1. ALL NEW SEWER SERVICE LATERALS SHALL HAVE A 4" X 4" X 3' LONG PRESSURE TREATED WOOD POST INSTALLED BETWEEN THE END OF THE LATERAL AND THE PROPERTY LINE. THE POST SHALL BE PAINTED "RED" AND EXTEND 12" ABOVE THE FINISHED GRADE. THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE FOR THE INDIVIDUAL ITEMS.



ALTERNATE GRADIENT FOR 6 INCH HOUSE SERVICE SEWERS AT CONFLICTS WITH EXISTING STORM SEWERS & OTHER EXISTING CONDUITS

6 INCH C.I. HOUSE CONN.

N.T.S.



SEWER CLEANOUT DETAIL

N.T.S.

MICHAEL R. KLINK
LICENSE
No. 71840
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

CONSTRUCTION DETAILS

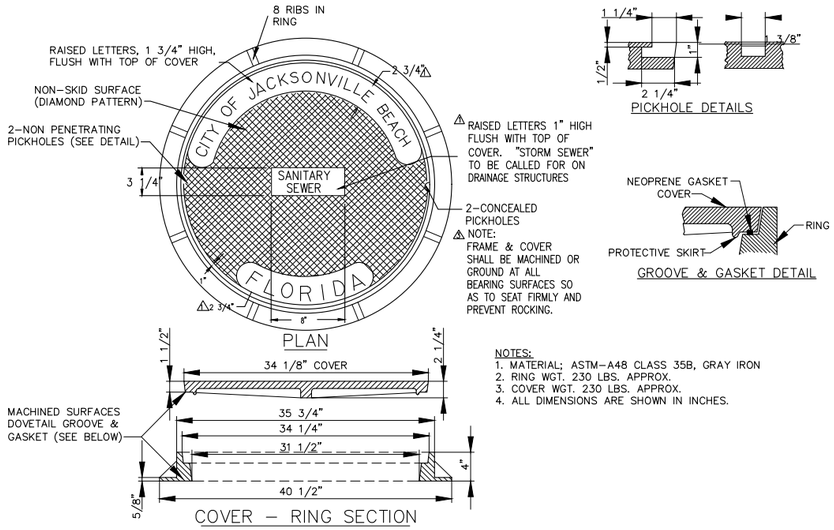
CITY OF JACKSONVILLE BEACH, FL

DESIGN	MRK	JOB #	19-1023
DRAWN	BRH	ISSUE DATE	SEPTEMBER 2025
		ISSUE	BID

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324 6th AVE N. JACKSONVILLE BEACH, FLORIDA 32250
904-414-2400 C.O.A.# 31101 WWW.4WENG.COM

DRAWING NUMBER
D-4

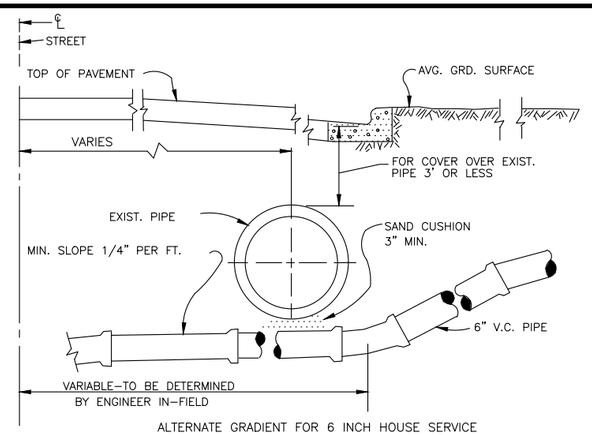
CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II



NOTES:
1. MATERIAL; ASTM-A48 CLASS 35B, GRAY IRON
2. RING WGT. 230 LBS. APPROX.
3. COVER WGT. 230 LBS. APPROX.
4. ALL DIMENSIONS ARE SHOWN IN INCHES.

SEWER MANHOLE COVER AND FRAME

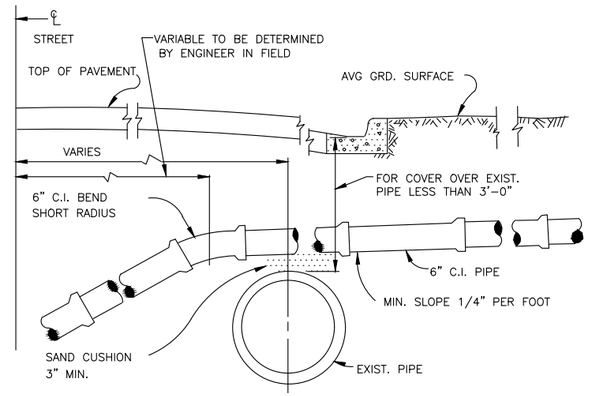
N.T.S.



ALTERNATE GRADIENT FOR 6 INCH HOUSE SERVICE SEWERS AT CONFLICTS WITH EXISTING STORM SEWERS & OTHER EXISTING CONDUITS.

6 INCH HOUSE CONN.

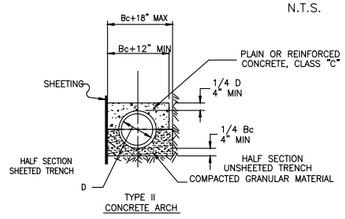
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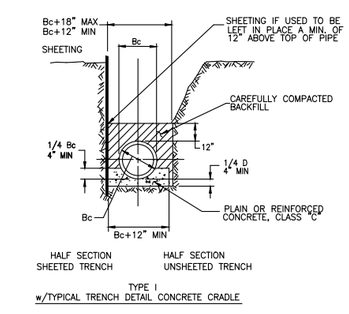


ALTERNATE GRADIENT FOR 6 INCH HOUSE SERVICE SEWERS AT CONFLICTS WITH EXISTING STORM SEWERS & OTHER EXISTING CONDUITS

6 INCH C.I. HOUSE CONN.

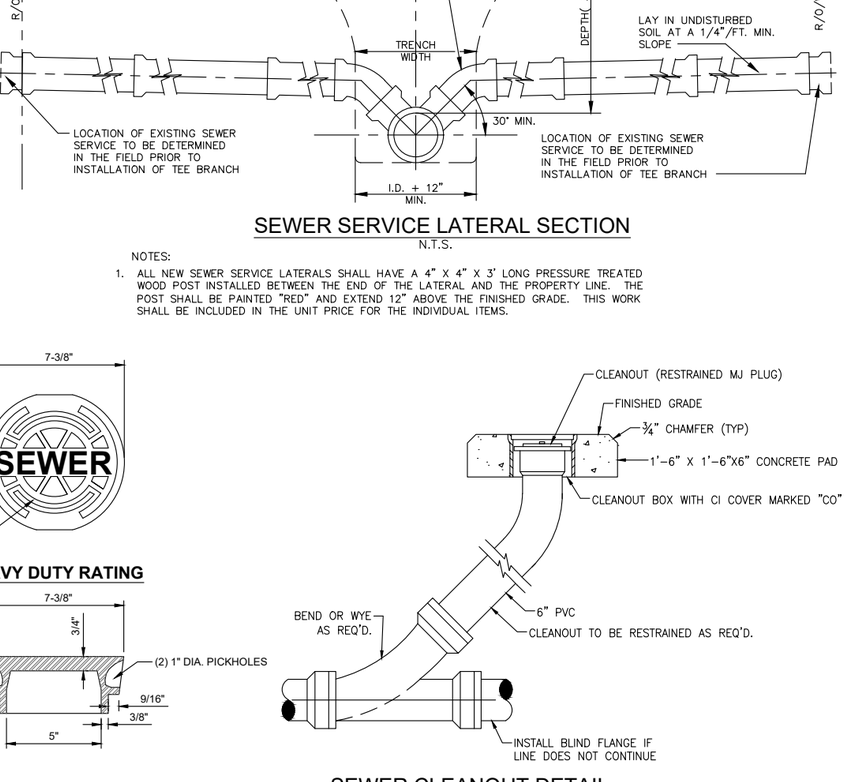
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BEDDING - CLASS A

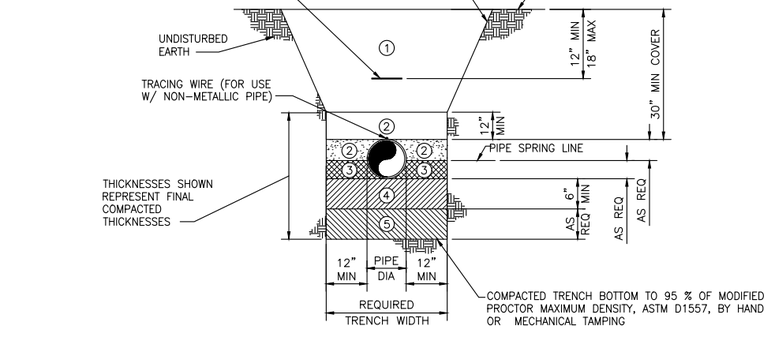
N.T.S.



SEWER SERVICE LATERAL SECTION

N.T.S.

NOTES:
1. ALL NEW SEWER SERVICE LATERALS SHALL HAVE A 4" X 4" X 3' LONG PRESSURE TREATED WOOD POST INSTALLED BETWEEN THE END OF THE LATERAL AND THE PROPERTY LINE. THE POST SHALL BE PAINTED "RED" AND EXTEND 12" ABOVE THE FINISHED GRADE. THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE FOR THE INDIVIDUAL ITEMS.



FINAL BACKFILL – CLEAN, WELL GRADED MATERIAL IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT SPECIFICATIONS. FINAL BACKFILL SHALL BE INSTALLED IN LIFTS NOT EXCEEDING 6 INCHES, LOOSE MEASUREMENT, AND SHALL BE COMPACTED TO AT LEAST 95% MODIFIED PROCTOR MAXIMUM DRY DENSITY, ASTM D-1557. (98% DENSITY UNDER ROADWAYS AND STRUCTURES).

INITIAL BACKFILL – CLEAN, WELL GRADED MATERIAL IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT SPECIFICATIONS. BACKFILL SHALL BE INSTALLED IN LIFTS NOT EXCEEDING 6 INCHES, LOOSE MEASUREMENT, AND SHALL BE COMPACTED TO AT LEAST 95% MODIFIED PROCTOR MAXIMUM DRY DENSITY, ASTM D-1557. (98% DENSITY UNDER ROADWAYS AND STRUCTURES) BACKFILL SHALL EXTEND TO THE TOP OF THE PIPE AFTER COMPACTION. ALL LIFTS SHALL BE COMPACTED BY HAND TAMPING OR AN APPROVED METHOD OF MECHANICAL TAMPING.

HAUNCHING – CLEAN, WELL GRADED MATERIAL IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT SPECIFICATIONS. HAUNCHING SHALL BE INSTALLED IN COMPLETELY DEWATERED TRENCHES IN LIFTS NOT EXCEEDING 4 INCHES, LOOSE MEASUREMENT, AND SHALL BE COMPACTED TO AT LEAST 95% MODIFIED PROCTOR MAXIMUM DRY DENSITY, ASTM D-1557, (98% DENSITY UNDER ROADWAYS AND STRUCTURES) BY HAND TAMPING. HAUNCHING SHALL BE BROUGHT UP EQUALLY ON BOTH SIDES OF THE PIPE.

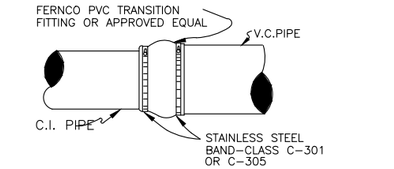
4 BEDDING – CLEAN, CLASS B TYPE 1, WELL GRADED MATERIAL IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT SPECIFICATIONS. BEDDING SHALL BE INSTALLED IN COMPLETELY DEWATERED TRENCHES IN LIFTS NOT EXCEEDING 6 INCHES, LOOSE MEASUREMENT, AND SHALL BE COMPACTED TO AT LEAST 95% MODIFIED PROCTOR MAXIMUM DRY DENSITY, ASTM D-1557, (98% DENSITY UNDER ROADWAYS AND STRUCTURES) BY HAND OR MECHANICAL TAMPING. PROPERLY SHAPED BELL HOLES SHALL BE EXCAVATED IN THE COMPACTED BEDDING TO PERMIT ASSEMBLY OF THE PIPE.

NOTE: NATIVE, UNDISTURBED MATERIAL IN COMPLETELY DEWATERED TRENCHES MEETING THE COMPACTION AND MATERIAL REQUIREMENTS FOR COMPACTED BEDDING MATERIAL NEED NOT BE REPLACED OR REWORKED, EXCEPT FOR SHAPING OF BELL HOLES, AND WHERE REFILL IS REQUIRED.

5 REFILL – REQUIRED WHERE TRENCH HAS BEEN OVER-EXCAVATED. REFILL SHALL BE INSTALLED IN COMPLETELY DEWATERED TRENCHES IN LIFTS NOT EXCEEDING 6 INCHES AND COMPACTED TO 95% OF ASTM D1557 MAX DRY DENSITY, (98% DENSITY UNDER ROADWAYS AND STRUCTURES) BY HAND OR MECHANICAL TAMPING.

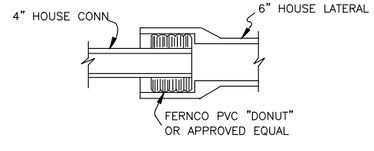
TYPICAL PIPE TRENCH DETAIL

NOT TO SCALE

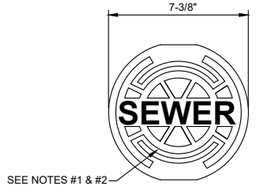


TYPICAL C.I. TO V.C. COUPLING ADAPTER

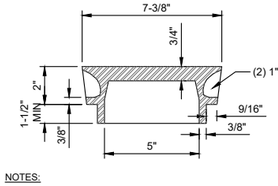
N.T.S.



TYPICAL 6" TO 4" HOUSE CONN.



HEAVY DUTY RATING



NOTES:
1. PAINT TOP OF THE COVER WITH ENAMEL PAINT (GREEN COLOR).
2. LID WEIGHT: APPROX. 12 LBS.

SEWER CLEANOUT DETAIL

N.T.S.

MICHAEL R. KLINK LICENSE No. 71840 STATE OF FLORIDA PROFESSIONAL ENGINEER

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10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II

CONSTRUCTION DETAILS

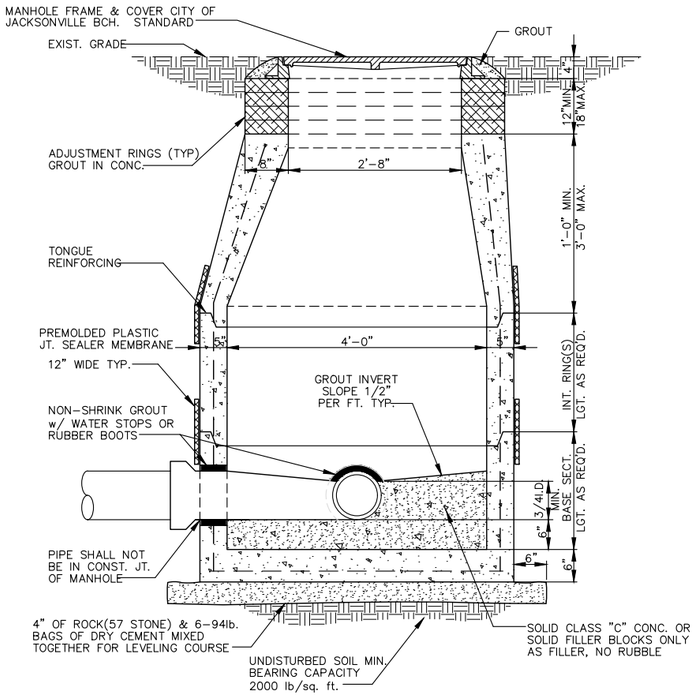
CITY OF JACKSONVILLE BEACH, FL

DESIGN	DRAWN		
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324 6th AVE N, JACKSONVILLE BEACH, FLORIDA 32250
904-414-2400 C.O.A.# 31101 WWW.4WENG.COM

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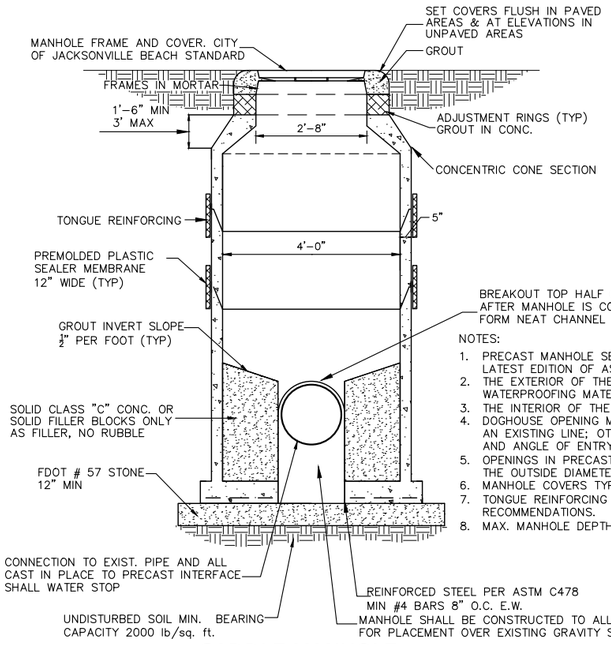
CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II



NOTES:
1. PRECAST MANHOLE SECTIONS TO BE MANUFACTURED IN ACCORDANCE WITH LATEST EDITION OF ASTM C47B WITH 4000 LB. CONCRETE, TYPE II CEMENT.
2. THE EXTERIOR OF THE MANHOLE SHALL BE GIVEN TWO COATS OF BITUMINOUS WATERPROOFING MATERIAL. DO NOT COAT JOINT OR PIPE OPENING SURFACES.
3. THE INTERIOR OF THE MANHOLE SHALL BE COATED WITH "SPECTRASHIELD".

SANITARY SEWER TYPE "A" MANHOLE

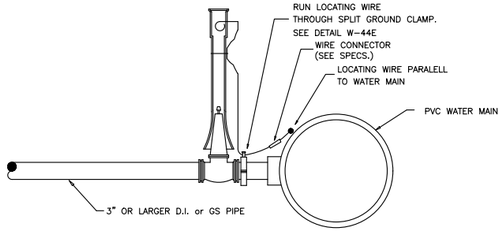
N.T.S.



NOTES:
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2. THE EXTERIOR OF THE MANHOLE SHALL BE GIVEN TWO COATS OF BITUMINOUS WATERPROOFING MATERIAL. DO NOT COAT JOINT OR PIPE OPENING SURFACES.
3. THE INTERIOR OF THE MANHOLE SHALL BE COATED WITH "SPECTRASHIELD".
4. DOGHOUSE OPENING MAY ONLY BE USED WHEN PLACING A NEW MANHOLE OVER AN EXISTING LINE; OTHERWISE, THE OPENING MUST BE CAST. SIZE, LOCATION AND ANGLE OF ENTRY SHOULD BE AS REQUIRED BY THE PLANS.
5. OPENINGS IN PRECAST UNITS ARE TO BE 4" MINIMUM TO 8" MAX. LARGER THAN THE OUTSIDE DIAMETER OF THE PROPOSED PIPE.
6. MANHOLE COVERS TYPICAL FOR ALL FRAME TYPES.
7. TONGUE REINFORCING MUST BE USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
8. MAX. MANHOLE DEPTH SHALL BE 15' TO LOWEST PIPE INVERT.

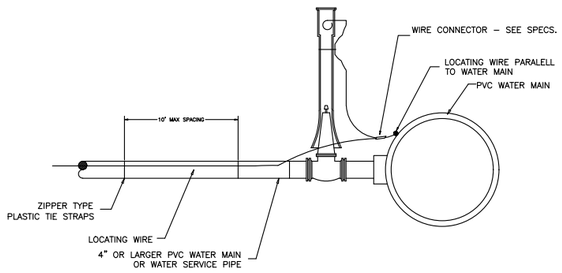
SADDLE MANHOLE

N.T.S.



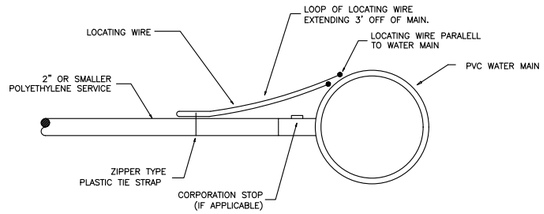
CONNECTION TO PVC MAINS

w/3" OR LARGER D.I. OR GS WATER SERVICE OR WATER MAIN



CONNECTION TO PVC MAINS

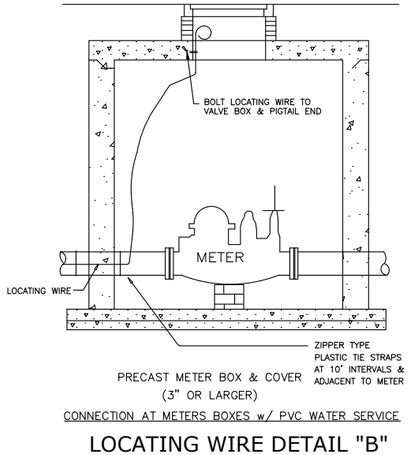
4" OR LARGER PVC WATER MAIN OR WATER SERVICE PIPE



CONNECTION TO PVC MAINS
2" OR SMALLER POLYETHYLENE WATER SERVICE

LOCATING WIRE DETAIL "A"

N.T.S.

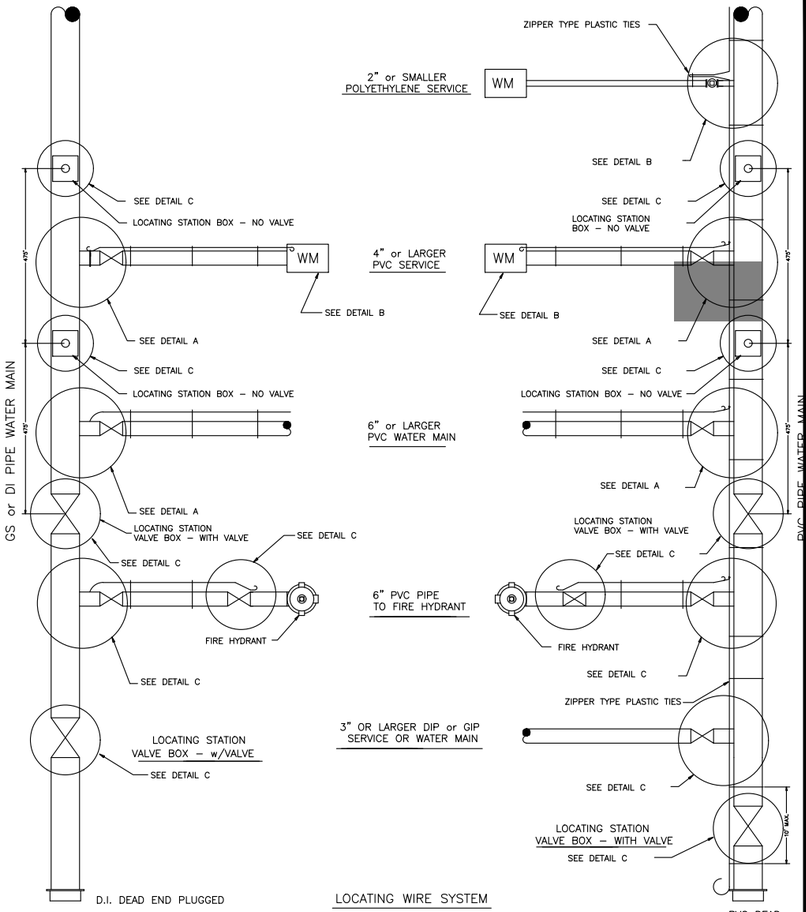


PRECAST METER BOX & COVER (3" OR LARGER)

CONNECTION AT METERS BOXES w/ PVC WATER SERVICE

LOCATING WIRE DETAIL "B"

N.T.S.

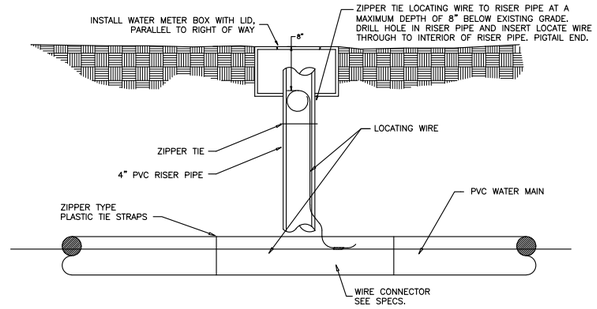


LOCATING WIRE SYSTEM

1. LOCATING WIRE TO BE INSTALLED IN EITHER THE ONE OR ELEVEN O'CLOCK POSITION ON PIPE.
2. SECURE LOCATING WIRE TO WATER MAIN BY USE OF ZIPPER TYPE PLASTIC TIE STRAPS SPACED AT A MAXIMUM DISTANCE OF TEN FEET (10') AND AT EACH SIDE OF BELL JOINT OR FITTING.
3. THE ENTIRE LOCATING SYSTEM SYSTEM SHALL BE SUBJECTED TO TESTING TO DETERMINE ITS RELIABILITY. WHERE INSTALLED UNDER PAVEMENT AREAS , TESTING SHALL BE DONE PRIOR TO THE PLACEMENT OF PAVEMENT.
4. LOCATING WIRE SHALL TERMINATE WITHIN A VALVE BOX WITH A VALVE OR A METER BOX IF NO VALVE AT 475' INTERVALS. SEE DETAILS.
5. LOCATING WIRE SHALL BE 10 GAUGE, SINGLE STRAND, UF RATED (DIRECT BURIAL), COPPER WIRE.

LOCATING WIRE

N.T.S.



IN LINE LOCATING STATION - PVC PIPE METER BOX

LOCATING WIRE DETAIL "C"

N.T.S.

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

CONSTRUCTION DETAILS

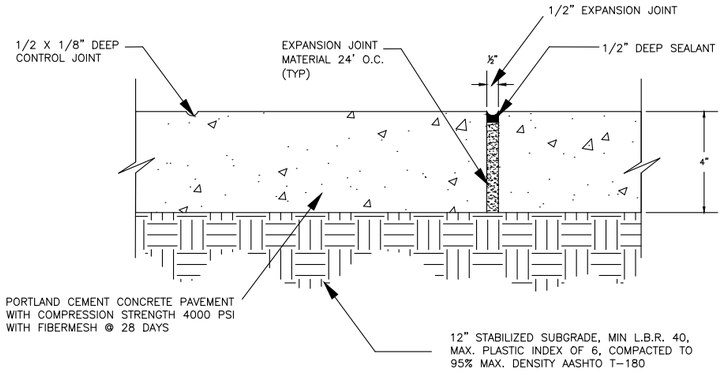
CITY OF JACKSONVILLE BEACH, FL

DESIGN MIRK	DRAWN BRH	ISSUE DATE	BID
JOB #	19-1023	SEPTEMBER 2025	ISSUE

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D-6

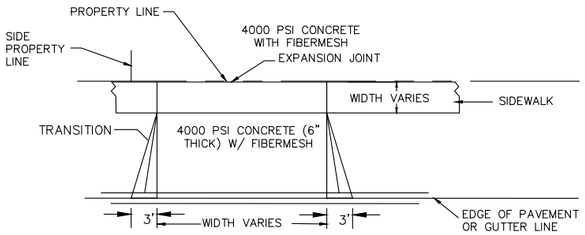
CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II



NOTE: IF CONTROL JOINTS ARE SAWED, SAWING SHALL BE ACCOMPLISHED WITHIN 12 HRS. OF CONCRETE POUR: 5'-0" O.C. (TYP)

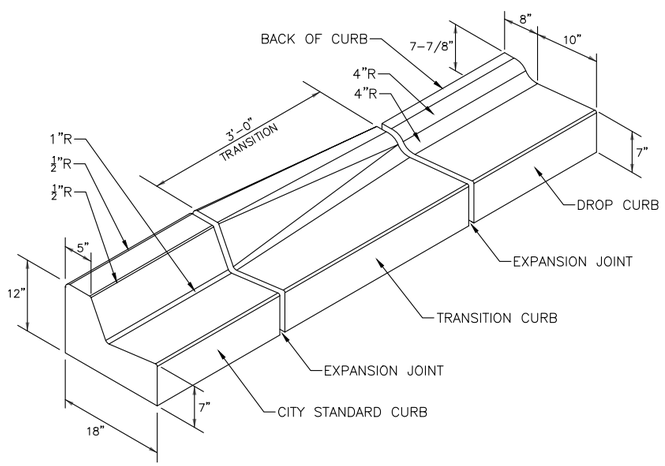
STANDARD SIDEWALK DETAIL

N.T.S.



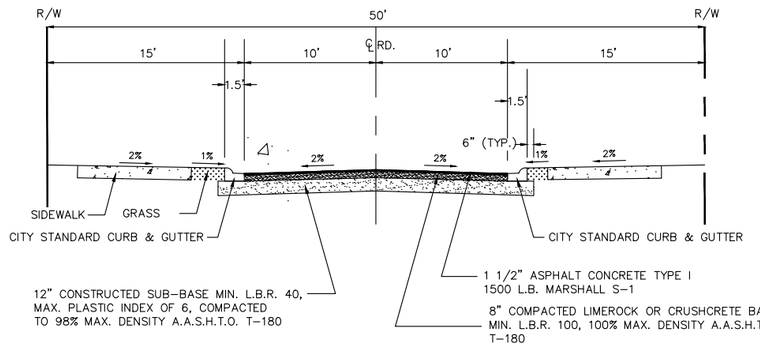
CITY OF JACKSONVILLE BEACH, FLORIDA
6" CONCRETE DRIVEWAY STANDARD DETAIL

NOT TO SCALE

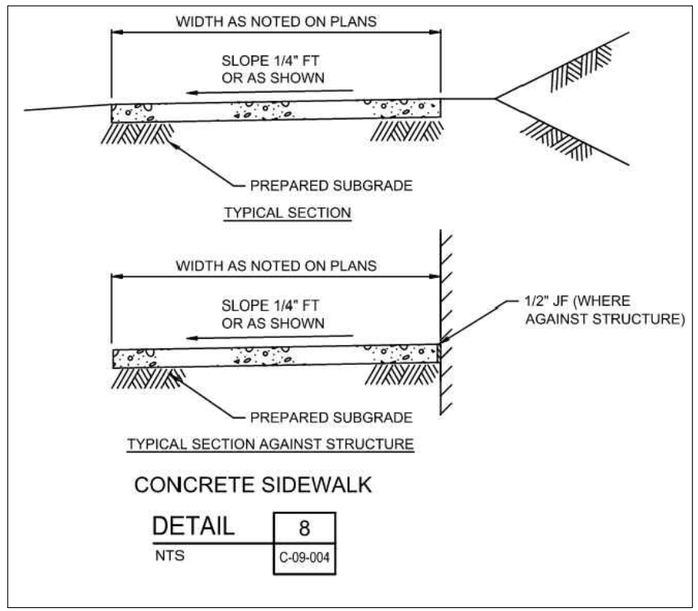


TRANSITION CURB DETAIL

NOT TO SCALE

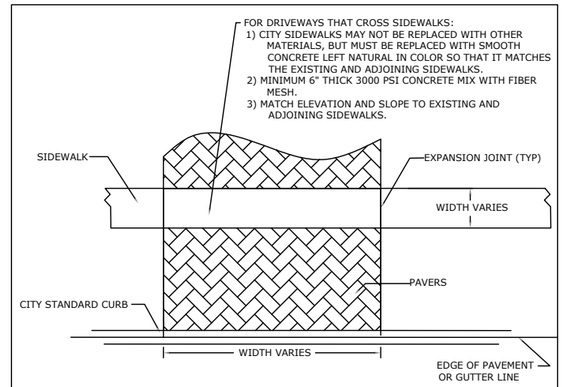


TYPICAL SECTION (CITY STANDARD CURB)



CONCRETE SIDEWALK

DETAIL	8
NTS	C-09-004



STANDARD PAVER DRIVEWAY CONSTRUCTION

N.T.S.

USE THIS SPEC IF PROPERTY ALREADY HAS A CURB.

CITY OF JACKSONVILLE BEACH, FLORIDA
PAVER DRIVEWAY CONSTRUCTION STANDARD



R1-1

ALL WAY R1-3P

1. When it is determined that a full stop is always required on an approach to an intersection, a STOP (R1-1) sign shall be used.
2. The STOP sign shall be an octagon with a white legend and border on a red background.
3. Secondary legends shall not be used on STOP sign faces.
4. At intersections where all approaches are controlled by STOP signs , an ALL WAY supplemental plaque (R1-3P) shall be mounted below each STOP sign. The ALL WAY plaque shall have a white legend and border on a red background.
5. The ALL WAY plaque shall only be used if all intersection approaches are controlled by STOP signs.
6. Supplemental plaques with legends such as 2-WAY, 3-WAY, 4-WAY, or other numbers of ways shall not be used with STOP signs.

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

CONSTRUCTION DETAILS

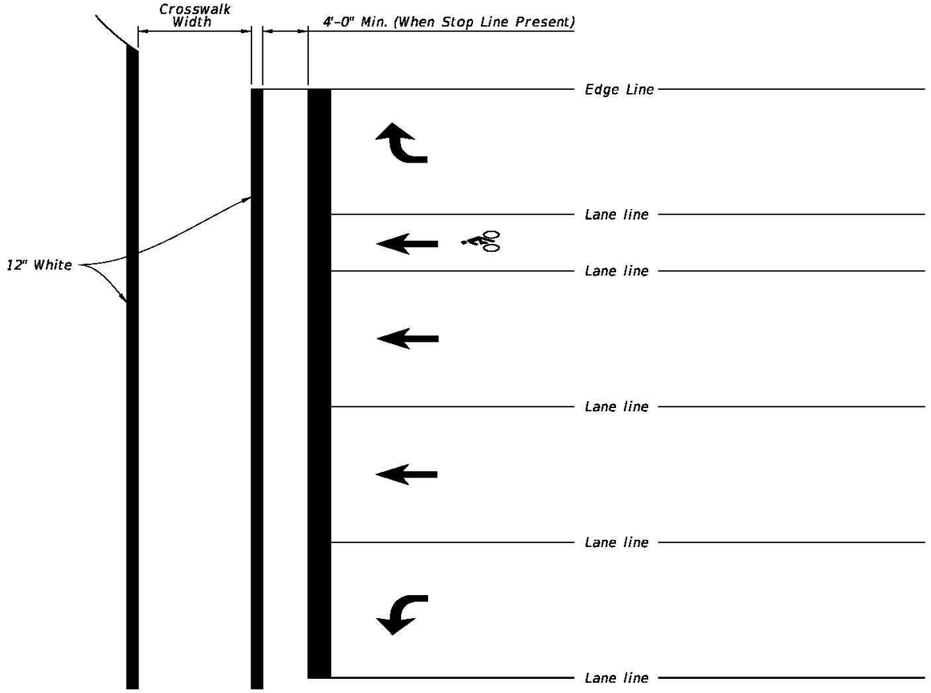
CITY OF JACKSONVILLE BEACH, FL

DESIGN	DRAWN	JOB #	ISSUE DATE	ISSUE
MRK	BRH	19-1023	SEPTEMBER 2025	BID

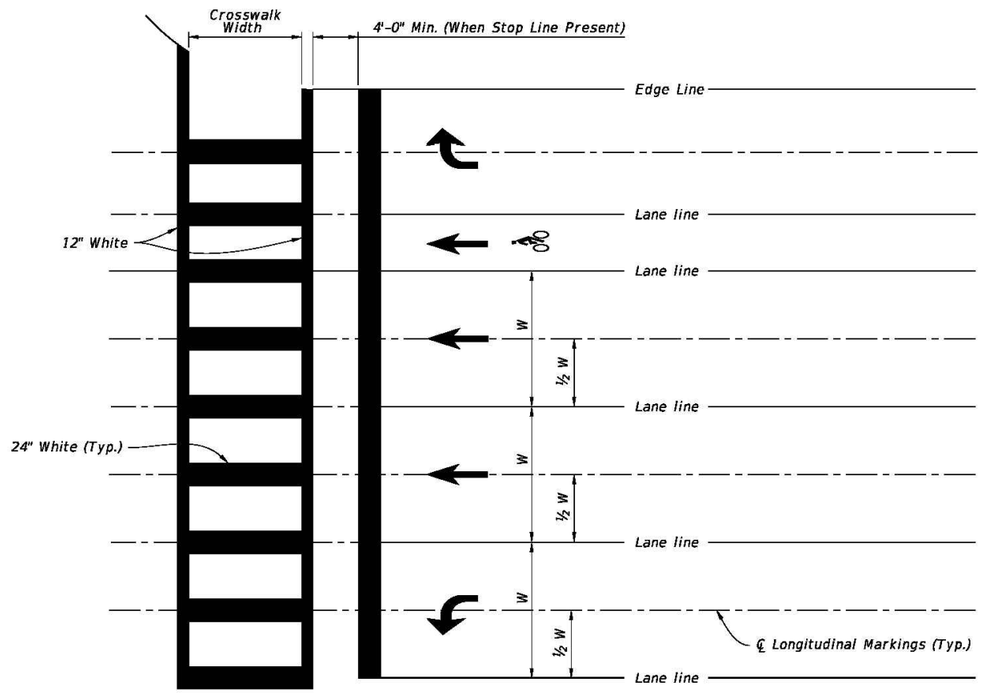
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CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II



STANDARD CROSSWALK DETAILS



SPECIAL EMPHASIS CROSSWALK DETAILS

NOTES:

1. For crosswalk width, exceed width of the adjacent sidewalk, but do not make width less than 6' for intersection crosswalks and 10' for midblock crosswalks. Measure width from the inside of the transverse crosswalk markings.
2. When the Special Emphasis Crosswalk is not perpendicular to the lane lines, make the longitudinal markings parallel to the lane lines.
3. Refer to Index 522-002 when Curb Ramps are present.

LAST REVISION	REVISION	DESCRIPTION:				
11/01/21			FY 2025-26 STANDARD PLANS	PAVEMENT MARKINGS	INDEX 711-001	SHEET 9 of 13

9/10/2024 2:59:20 PM

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

CONSTRUCTION DETAILS

CITY OF JACKSONVILLE BEACH, FL

DESIGN	MRK	DRAWN	BRH
JOB #	19-1023		
ISSUE DATE	SEPTEMBER 2025		
ISSUE	BID		

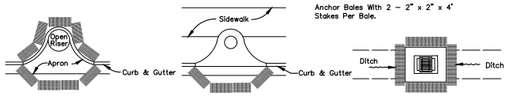
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DRAWING NUMBER D-8

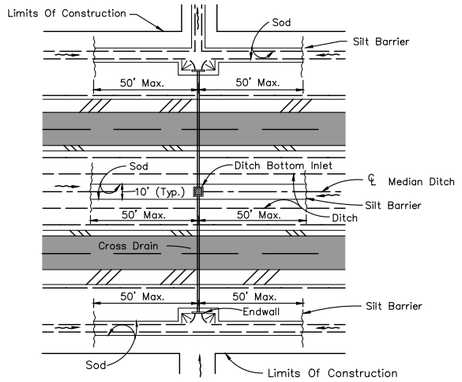
CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II

EROSION AND SEDIMENT CONTROL NOTES

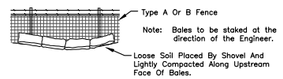
1. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING SILT FROM SITE IF NOT REUSABLE ON-SITE AND ASSURING PLAN ALIGNMENT AND GRADE IN ALL DITCHES AND SWALES AT COMPLETION OF CONSTRUCTION.
2. THE SITE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER COMPLETION OF CONSTRUCTION AND ONLY WHEN AREAS HAVE BEEN STABILIZED.
3. ADDITIONAL PROTECTION – ON-SITE PROTECTION IN ADDITION TO THE ABOVE MUST BE PROVIDED THAT WILL NOT PERMIT SILT TO LEAVE THE PROJECT CONFINES DUE TO UNSEEN CONDITIONS OR ACCIDENTS.
4. CONTRACTOR SHALL INSURE THAT ALL DRAINAGE STRUCTURES, PIPES, ETC. ARE CLEANED OUT AND WORKING PROPERLY AT TIME OF ACCEPTANCE.
5. WIRE MESH SHALL BE LAID OVER THE DROP INLET SO THAT THE WIRE EXTENDS A MINIMUM OF 1 FOOT BEYOND EACH SIDE OF THE INLET STRUCTURE. HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH 1/2-INCH OPENINGS SHALL BE USED. IF MORE THAN ONE STRIP OF MESH IS NECESSARY, THE STRIPS SHALL BE OVERLAPPED.
6. FDOT NO. 1 COARSE AGGREGATE SHALL BE PLACED OVER THE WIRE MESH AS INDICATED IN D-903. THE DEPTH OF STONE SHALL BE AT LEAST 12 INCHES OVER THE ENTIRE INLET OPENING. THE STONE SHALL EXTEND BEYOND THE INLET OPENING AT LEAST 18 INCHES ON ALL SIDES.
7. IF THE STONE FILTER BECOMES CLOGGED WITH SEDIMENT SO THAT IT NO LONGER ADEQUATELY PERFORMS ITS FUNCTION, THE STONES MUST BE PULLED AWAY FROM THE INLET, CLEANED AND REPLACED.
8. BALES SHALL BE EITHER WIRE-BOUND OR STRING-TIED WITH THE BINDINGS ORIENTED AROUND THE SIDES RATHER THAN OVER AND UNDER THE BALES.
9. BALES SHALL BE PLACED LENGTHWISE IN A SINGLE ROW SURROUNDING THE INLET, WITH THE ENDS OF ADJACENT BALES PRESSED TOGETHER.
10. THE FILTER BARRIER SHALL BE ENTRENCHED AND BACKFILLED. A TRENCH SHALL BE EXCAVATED TO A MINIMUM DEPTH OF 8 INCHES. AFTER THE BALES ARE STAKED, THE EXCAVATED SOIL SHALL BE BACKFILLED AND COMPACTED AGAINST THE FILTER BARRIER.
11. EACH BALE SHALL BE SECURELY ANCHORED AND HELD IN PLACE BY AT LEAST TWO STAKES OR REBARS DRIVEN THROUGH THE BALE.
12. LOOSE STRAW SHOULD BE WEDGED BETWEEN BALES TO PREVENT WATER FROM ENTERING BETWEEN BALES.
13. STRAW BALE BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.
14. CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED BALES, END RUNS AND UNDERCUTTING BENEATH BALES.
15. NECESSARY REPAIRS TO BARRIERS OR REPLACEMENT OF BALES SHALL BE ACCOMPLISHED PROMPTLY.
16. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SYNTHETIC BALE BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.
17. SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
18. SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
19. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-THIRD THE HEIGHT OF THE BARRIER.
20. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEEDED.
21. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
22. SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/3 THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
23. THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE BEST EROSION AND SEDIMENT CONTROL PRACTICES AS OUTLINED IN THE PLANS, SPECIFICATIONS AND ST. JOHNS RIVER WATER MANAGEMENT DISTRICT SPECIFICATIONS AND CRITERIA.
24. FOR ADDITIONAL INFORMATION ON SEDIMENT AND EROSION CONTROL REFER TO "THE FLORIDA DEVELOPMENT MANUAL – A GUIDE TO SOUND LAND AND WATER MANAGEMENT" FROM THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION (F.D.E.R.) CHAPTER 6.
25. EROSION AND SEDIMENT CONTROL BARRIERS SHALL BE PLACED ADJACENT TO ALL WETLAND AREAS WHERE THERE IS POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADATION. SEE DETAIL SHEET FOR TYPICAL CONSTRUCTION.
26. ALL DISTURBED AREAS SHALL BE GRASSED, FERTILIZED, MULCHED AND MAINTAINED UNTIL A PERMANENT VEGETATIVE COVER IS ESTABLISHED.
27. SOD SHALL BE PLACED IN AREAS WHICH MAY REQUIRE IMMEDIATE EROSION PROTECTION TO ENSURE WATER QUALITY STANDARDS ARE MAINTAINED.
28. ANY DISCHARGE FROM DEWATERING ACTIVITY SHALL BE FILTERED AND CONVEYED TO THE OUTFALL IN A MANNER WHICH PREVENTS EROSION AND TRANSPORTATION OF SUSPENDED SOLIDS TO THE RECEIVING OUTFALL.
29. DEWATERING PUMPS SHALL NOT EXCEED THE CAPACITY OF THAT WHICH REQUIRES A CONSUMPTIVE USE PERMIT FROM THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT.
30. ALL DISTURBED AREAS TO BE STABILIZED THROUGH COMPACTION, SILT SCREENS, SYNTHETIC BALES, AND GRASSING. ALL FILL SLOPES 3:1 OR STEEPER TO RECEIVE STAKED SOLID SOD.
31. ALL DEWATERING, EROSION, AND SEDIMENT CONTROL TO REMAIN IN PLACE AFTER COMPLETION OF CONSTRUCTION AND REMOVED ONLY WHEN AREAS HAVE STABILIZED.
32. THIS PLAN INDICATES THE MINIMUM EROSION AND SEDIMENT MEASURES REQUIRED FOR THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MEETING ALL APPLICABLE RULES, REGULATIONS AND WATER QUALITY GUIDELINES AND MAY NEED TO INSTALL ADDITIONAL CONTROLS.
33. THE CONTRACTOR SHALL BE REQUIRED TO RESPOND TO ALL WATER MANAGEMENT DISTRICT INQUIRIES, RELATIVE TO COMPLIANCE OF SJRWMD FOR EROSION AND SEDIMENTATION CONTROL. THE COST OF THIS COMPLIANCE SHALL BE PART OF THE CONTRACT.



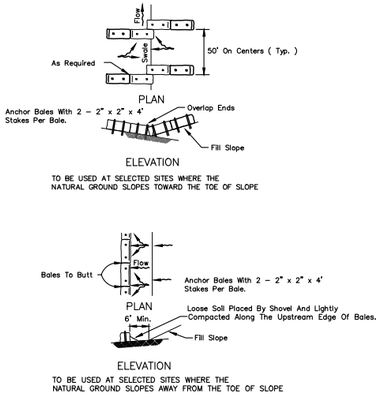
PROTECTION AROUND INLETS OR SIMILAR STRUCTURES



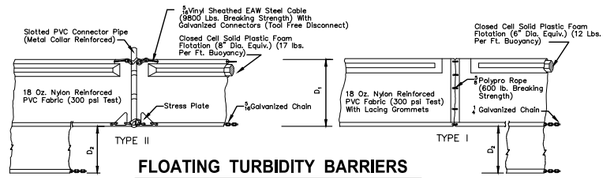
DITCH INSTALLATIONS AT DRAINAGE STRUCTURES



BALES BACKED BY FENCE

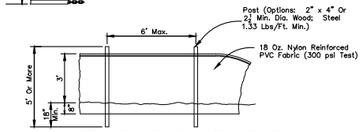


BARRIERS FOR FILL SLOPES

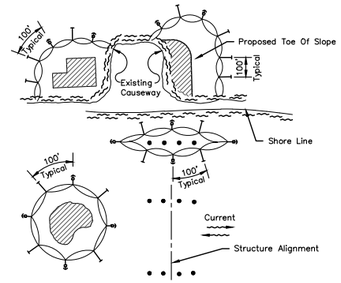


FLOATING TURBIDITY BARRIERS

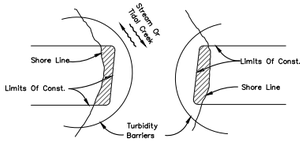
NOTICE:
COMPONENTS OF TYPES I & TYPE II MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPES I AND II SHALL BE AS APPROVED BY THE ENGINEER.



STAKED TURBIDITY BARRIER



NOTES:
1. Turbidity barriers are to be used in all permanent bodies of water regardless of water depth.
2. Number and spacing of anchors dependent on current velocities.
3. Deployment of barrier around pile locations may vary to accommodate construction operations.
4. Navigation may require segmenting barrier during construction operations.
5. For additional information see Section 104 of the FDOT Standard Specifications.

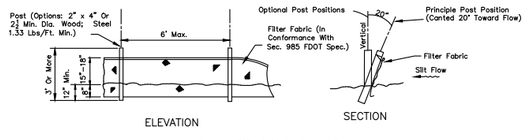


Note:
Turbidity barriers for flowing streams and tidal creeks may be either floating, or staked types or any combinations of types that will suit site conditions and meet erosion control and water quality requirements. The barrier type(s) will be at the Contractors option unless otherwise specified in the plans, however payment will be under the contract lump sum price established in the bid proposal for Erosion & Sediment Control Posts in staked turbidity barriers to be installed in vertical position unless otherwise directed by the Engineer.

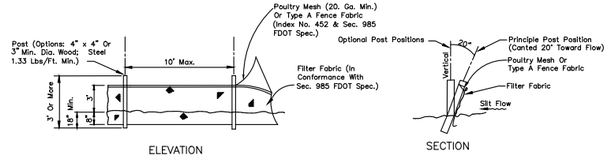
TURBIDITY BARRIER APPLICATIONS

TURBIDITY BARRIERS

(D-907)
N.T.S.

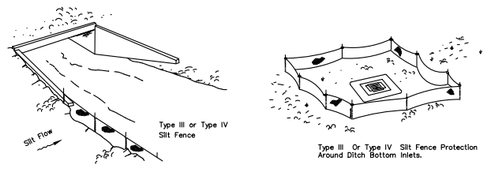


TYPE III SILT FENCE

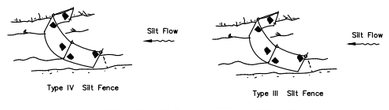


Note: Silt Fence to be paid for under the contract lump sum price for Erosion and Sediment Control.

TYPE IV SILT FENCE



Do not deploy in a manner that silt fences will act as a dam across permanent flowing watercourses. Silt fences are to be used at upland locations and turbidity barriers used at permanent bodies of water.

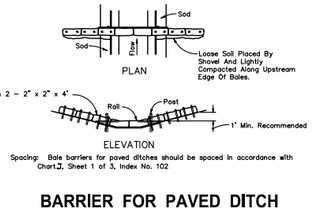


Note: Spacing for Type III & TYPE IV Fence to be in accordance with Chart 1, Sheet 1 of 3, FDOT Index No. 102 and ditch Installations at drainage structures Sheet 2 of 3, FDOT Index No. 102.

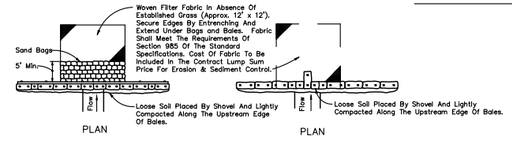
SILT FENCE APPLICATIONS

SILT FENCE TYPE III & IV

(D-908)
N.T.S.



BARRIER FOR PAVED DITCH



Application and Spacing: The use of Types I & II bale barriers should be limited to the conditions outlined in Chart 1, Sheet 1 of 3, Index No. 102

BARRIER FOR UNPAVED DITCHES

NOTE:
WHERE FDOT SPECS AND INDEX ARE REFERENCED, PLEASE REFER TO FDOT ROADWAY & TRAFFIC DESIGN STANDARDS, AND FDOT STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION.

SYNTHETIC BALE LOCATION

(D-901)
N.T.S.

SYNTHETIC BALE BARRIERS TYPE I & II

(D-912)
N.T.S.

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7				

DESIGN	DRAWN		
MRK	BRH		
JOB #	19-1023		
ISSUE DATE	SEPTEMBER 2025		BID
ISSUE			

10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

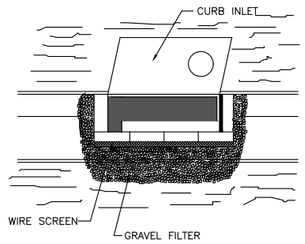
CONSTRUCTION DETAILS

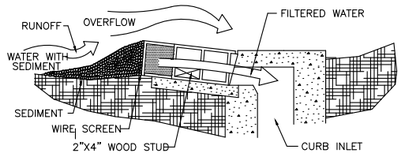
CITY OF JACKSONVILLE BEACH, FL

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324 6th AVE N, JACKSONVILLE BEACH, FLORIDA 32250
904-414-2400 C.O.A.# 31101 WWW.4WENG.COM

DRAWING NUMBER
D-9

CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II



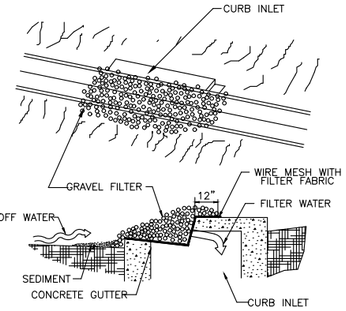


SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE AT CURB INLETS WHERE AN OVERFLOW CAPABILITY IS NECESSARY TO PREVENT EXCESSIVE PONDING IN FRONT OF THE STRUCTURE.

BLOCK & GRAVEL CURB INLET SEDIMENT FILTER

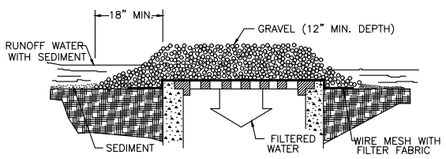
(D-902)
N.T.S.



GRAVEL CURB INLET SEDIMENT FILTER

SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE AT CURB INLETS WHERE PONDING IN FRONT OF THE STRUCTURE IS NOT LIKELY TO CAUSE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES AND UNPROTECTED AREAS.



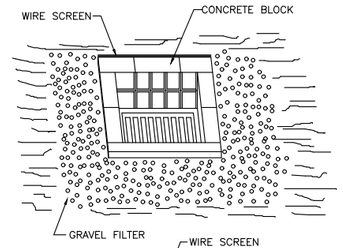
GRAVEL AND WIRE MESH DROP INLET SEDIMENT FILTER

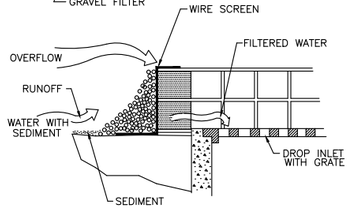
SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY CONCEN- TRATED FLOWS ARE EXPECTED, BUT NOT WHERE PONDING AROUND THE STRUCTURE MIGHT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES AND UNPROTECTED AREAS.

GRAVEL INLET SEDIMENT TRAP

(D-903)
N.T.S.



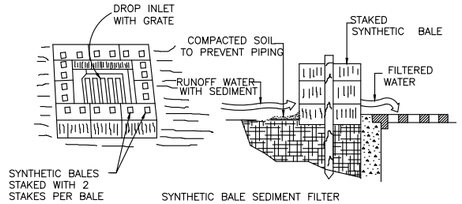


SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY FLOWS ARE EXPECTED AND WHERE AN OVERFLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND THE STRUCTURE.

BLOCK & GRAVEL DROP INLET SEDIMENT FILTER

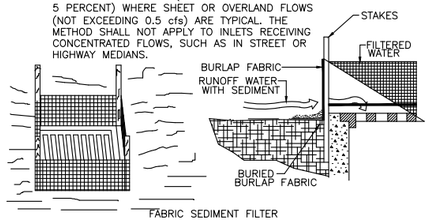
(D-904)
N.T.S.



SYNTHETIC BALE SEDIMENT FILTER

SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPES NO GREATER THAN 5 PERCENT) WHERE SHEET OR OVERLAND FLOWS (NOT EXCEEDING 0.5 cfs) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS IN STREET OR HIGHWAY MEDIANS.



FABRIC SEDIMENT FILTER

SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPES NO GREATER THAN 5 PERCENT) WHERE SHEET OR OVERLAND FLOWS (NOT EXCEEDING 0.5 cfs) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS. SUCH AS IN STREET OR HIGHWAY MEDIANS.

DROP INLET SEDIMENT TRAP

(D-905)
N.T.S.

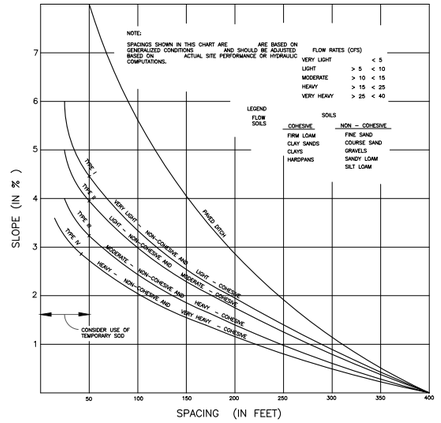
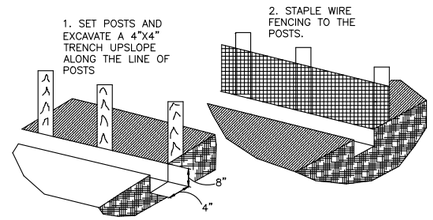


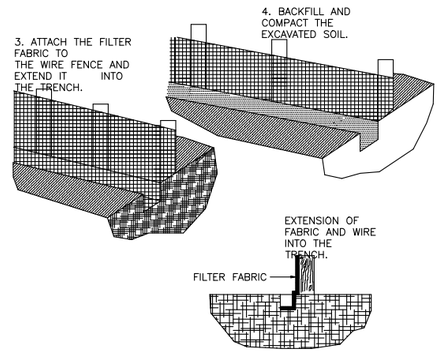
CHART I

RECOMMENDED SPACING FOR TYPE I AND TYPE II SYNTHETIC BALE BARRIERS, AND TYPE III AND TYPE IV SILT FENCES AND PAVED DITCH SYNTHETIC BALE BARRIERS

SPACING RECOMMENDATION FOR SILT FENCES & SYNTHETIC BALES

(D-906)
N.T.S.





CONSTRUCTION DETAILS FOR SILT FENCES

(D-909)
N.T.S.

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No. 71840
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

CONSTRUCTION DETAILS

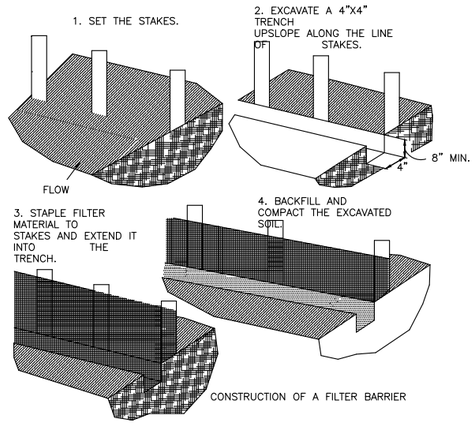
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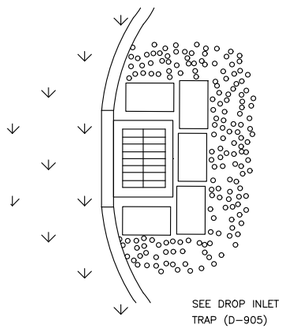
CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II



PROPER PLACEMENT OF A FILTER BARRIER IN A DRAINAGE WAY

FILTER BARRIER CONSTRUCTION DETAIL

(D-910)
N.T.S.

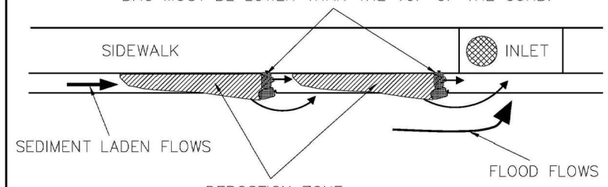


SEE DROP INLET SEDIMENT TRAP (D-905)

ERECT SEDIMENT BARRIERS AT CATCH BASINS

(TYPICAL)
N.T.S.

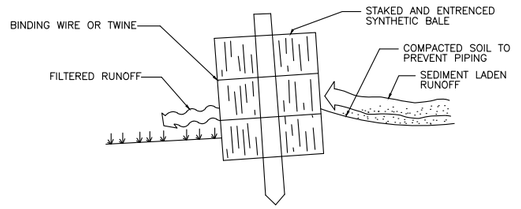
PLACE TWO OR MORE SETS OF SAND BAGS IN A MANNER THAT RESULTS IN MAXIMUM SUPPORT. THE FLOW LINE BAG MUST BE LOWER THAN THE TOP OF THE CURB.



NOTE: FILL SAND BAGS ABOUT 2/3 FULL BEFORE PLACING IN THE GUTTER

STREET GRADE (%)	SPACING (FT.)
0.5	100
1.0	50
2.0	25
3.0	16
4.0	13
5.0	10

CURB AND GUTTER SEDIMENT CONTAINMENT SYSTEM



CROSS-SECTION OF A PROPERLY INSTALLED STRAW BALE

STAKED SYNTHETIC BALE

(D-911)
N.T.S.

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

CONSTRUCTION DETAILS

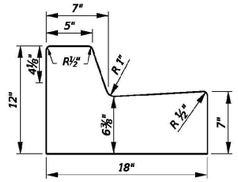
CITY OF JACKSONVILLE BEACH, FL

DESIGN	MRK	JOB #	19-1023
DRAWN	BRH	ISSUE DATE	SEPTEMBER 2025
		ISSUE	BID

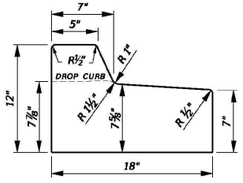
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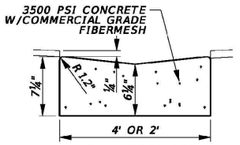
CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II



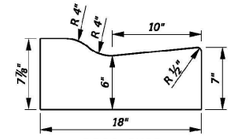
CITY STANDARD



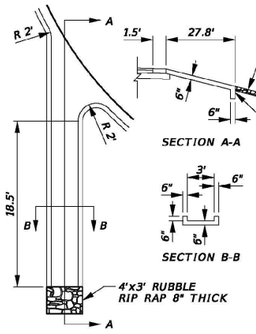
MEDIAN CURB



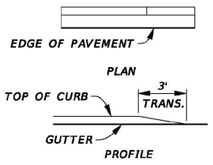
VALLEY GUTTER DETAIL



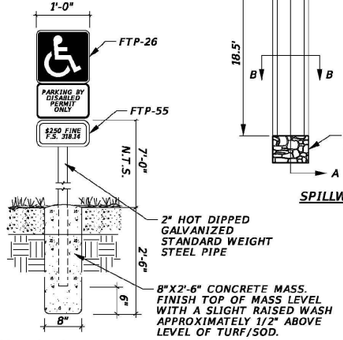
DROP CURB



SPILLWAY DETAIL

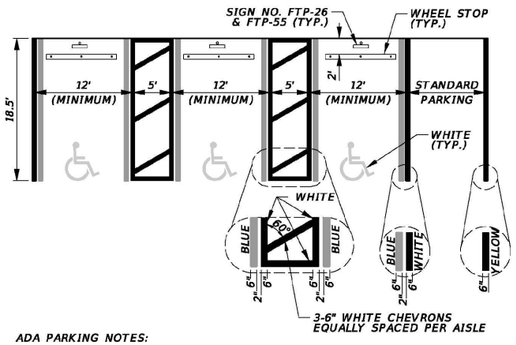


CURB TRANSITION



SIGN NOTES:

1. METAL POST TO BE H.D. GALVANIZED. ALL BOLTS, NUTS, WASHERS, AND SCREWS SHALL BE 316 S.S.
2. CONCRETE FOR FOOTING SHALL BE OF PORTLAND CEMENT AND HAVE A MIN. COMPRESSIVE STRENGTH OF 3000 P.S.I.
3. SIGNS WILL BE FABRICATED BY USING A REFLECTING COATING IN THE SYMBOL, MESSAGE AND BORDERS APPLIED TO A SHEET ALUMIN. BACKING (.080") IN THICKNESS.
4. TOP PORTION OF FTP-25 SHALL HAVE A REFLECTIVE BLUE BACKGROUND WITH WHITE REFLECTIVE SYMBOL AND BORDER.
5. BOTTOM PORTION OF FTP-25 SHALL HAVE A REFLECTIVE WHITE BACKGROUND WITH BLACK OPAQUE LEGEND AND BORDER.



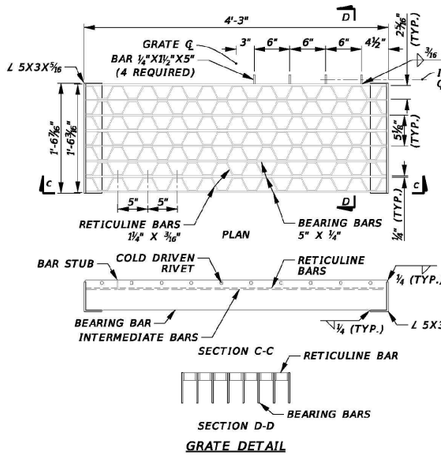
ADA PARKING NOTES:

1. ALL HANDICAPPED PARKING SPACES MUST BE SIGNED AND MARKED PER STANDARDS ESTABLISHED BY THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG).
2. PARKING SPACES AND ACCESS ISLES SHALL BE LEVEL WITH SURFACE SLOPES NOT EXCEEDING 1:50 (2%) IN ALL DIRECTIONS.
3. ADA PARKING SPACES SHALL BE DESIGNATED AS RESERVED BY A PAINTED SYMBOL OF ACCESSIBILITY AND A SIGN SHOWING THE ACCESSIBLE SYMBOL.
4. ADA SIGNS ARE TO BE LOCATED DIRECTLY IN FRONT OF AN ACCESSIBLE PARKING SPACE AND MOUNTED, EITHER ON A POLE OR A WALL, A MINIMUM OF SEVEN (7) FEET ABOVE THE PARKING SURFACE'S GRADE.
5. SIDEWALK RAMPS FRONTING AN ADA ACCESS ISLE SHALL HAVE DETECTABLE WARNINGS COMPLYING WITH ADAAG 4.29.2.

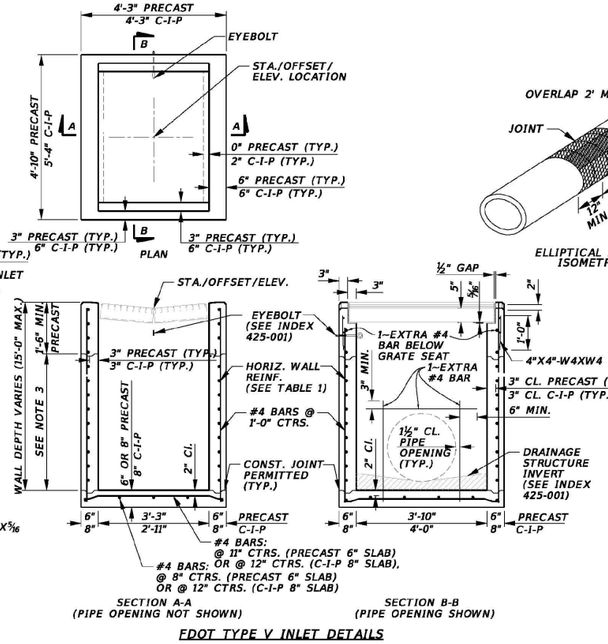
HANDICAP PARKING DETAILS

TABLE 1 HORIZONTAL WALL REINFORCING SCHEDULE				
WALL DEPTH	SCHEDULE	AREA (in.²/ft.)	MAX. SPACING	
			BARS	WWR
0' - 5'	A12	0.20	12"	8"
5' - 9'	A6	0.20	6"	5"
9' - 12'	A4	0.20	4"	3"
9' - 15'	B5.5	0.24	5½"	5"

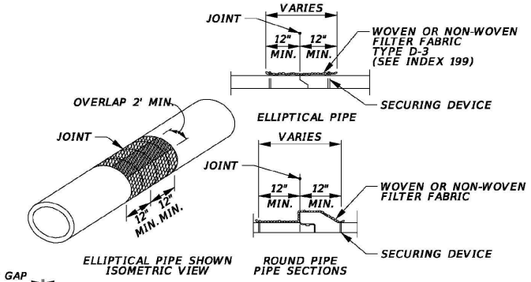
NOTES:
1. PLAN VIEW: GRATE, CONCRETE DITCH PAVEMENT, AND SOD NOT SHOWN ON STRUCTURE DETAIL.
2. PRECAST SHOWN, CAST-IN-PLACE (C-I-P) SIMILAR.
3. CONSTRUCTION JOINTS PERMITTED BETWEEN THESE LIMITS. SEE INDEX 425-001 FOR MINIMUM DIMENSIONS.



GRATE DETAIL

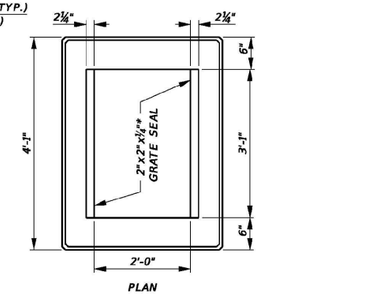


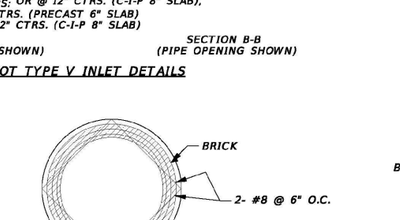
FDOT TYPE V INLET DETAILS

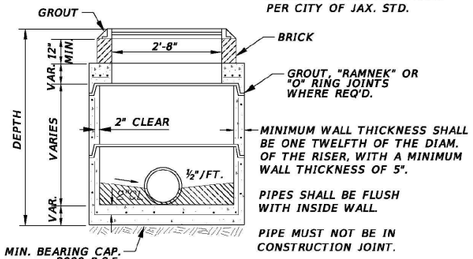


NOTE:
COST OF FILTER FABRIC JACKET TO BE INCLUDED IN COST OF PIPE CULVERTS. FOR ALL PIPE TYPES - CONCRETE PIPE SHOWN.

FILTER FABRIC JACKET

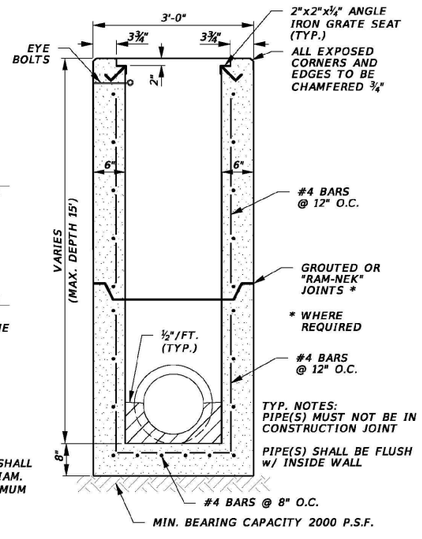






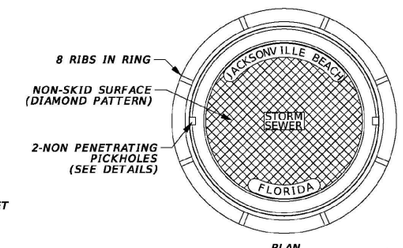
NOTE:
FOR ADDITIONAL STRUCTURAL DETAILS REFER TO PLATE D-110.

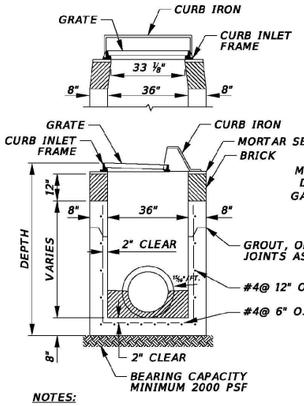
TYPE "J-1" MANHOLE



NOTES:
1. SLOT OPENINGS SHALL NOT BE IN WALLS WITH GRATE SEAL.
2. CONCRETE DESIGN STRENGTH - 4000 P.S.I.
3. PIPES MUST NOT BE IN CONSTRUCTION JOINTS.
4. PIPES SHALL BE FLUSH WITH INSIDE WALL.

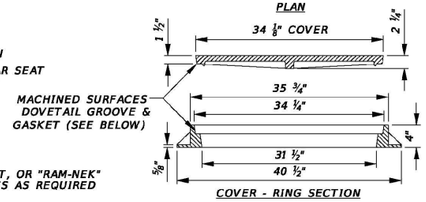
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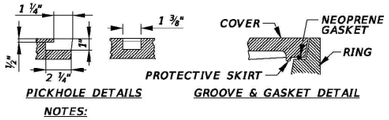




NOTES:
1. CONC. DESIGN STRENGTH 4,000 PSI.
2. PIPES SHALL BE FLUSH WITH INSIDE WALL.
3. PIPE MUST NOT BE IN CONST. JOINT.

STORM SEWER CURB INLET





NOTES:
1. MATERIAL; ASTM-A48 CLASS 35B, GRAY IRON.
2. RING WGT. 230 LBS. APPROX.
3. COVER WGT. 230 LBS. APPROX.
4. ALL DIMENSIONS ARE SHOWN IN INCHES.

STORM SEWER MANHOLE COVER and FRAME

MICHAEL R. KLINK
LICENSE
No. 71840
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

CONSTRUCTION DETAILS

CITY OF JACKSONVILLE BEACH, FL.

DESIGN	DRAWN	JOB #	ISSUE DATE	ISSUE
MRK	BRH	19-1023	SEPTEMBER 2025	BID

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CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II

LEGEND

ASPHALT

LIMEROCK

FINE SAND; SLIGHTLY SILTY FINE SAND (A-3)

CLAYEY SAND (A-2-6)

SILTY FINE SAND (A-2-4)

(A-3) AASHTO SOIL CLASSIFICATION SYSTEM

GROUNDWATER LEVEL AT TIME OF DRILLING

N STANDARD PENETRATION RESISTANCE IN BLOWS PER FT UNLESS OTHERWISE NOTED, NUMBERS TO THE LEFT OF BORING INDICATE N-VALUES.

W / -200 NATURAL MOISTURE CONTENT (%) FINES PASSING NO.200 SIEVE (%)

B.T. SPT BORING TERMINATED

GRANULAR MATERIALS

RELATIVE DENSITY	AUTOMATIC HAMMER SPT N-VALUE (BLOWS/FT)
VERY LOOSE	LESS THAN 3
LOOSE	3-8
MEDIUM DENSE	8-24
DENSE	24-40
VERY DENSE	GREATER THAN 40

SILTS AND CLAYS

CONSISTENCY	AUTOMATIC HAMMER SPT N-VALUE (BLOWS/FT)
VERY SOFT	LESS THAN 1
SOFT	1-3
FIRM	3-6
STIFF	6-12
VERY STIFF	12-24
HARD	GREATER THAN 24

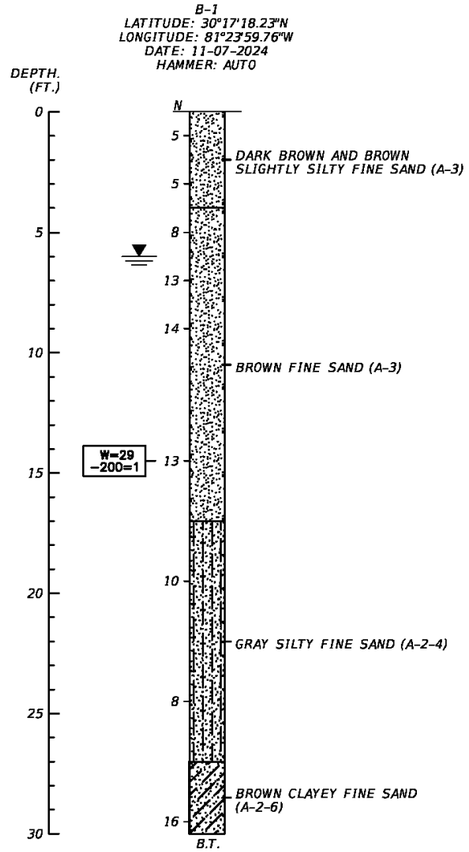
STANDARD PENETRATION TEST DATA

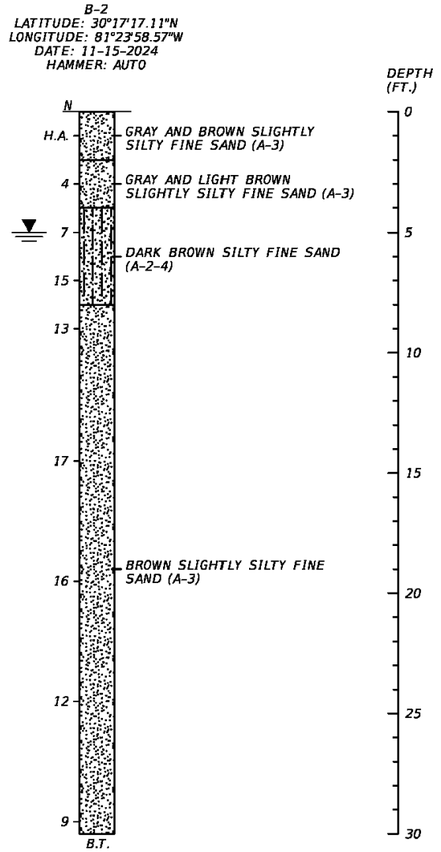
SPOON INSIDE DIA.	1.5 INCHES
SPOON OUTSIDE DIA.	2.0 INCHES
ASTM STANDARD DROP HAMMER, AUTO	
AVG. HAMMER DROP	30.0 INCHES
HAMMER WEIGHT	140.0 LBS

NOTES:

1) DRILL AND PENETRATION TESTING WAS PERFORMED IN ACCORDANCE WITH ASTM D-1586.

2) LAYER BOUNDARIES ARE APPROXIMATE AND MAY VARY BETWEEN OR AWAY FROM BORING LOCATIONS.





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JACKSONVILLE, FLORIDA 32246

GEOTECHNICAL ENGINEERING
CONSTRUCTION MATERIAL TESTING
CONSTRUCTION ENGINEERING INSPECTION

REPORT OF SPT BORINGS
JACKSONVILLE BEACH 10TH ST. SOUTH DRAINAGE IMPROVEMENTS
JACKSONVILLE BEACH, FLORIDA

MICHAEL R. KLINK LICENSE No. 71840 STATE OF FLORIDA PROFESSIONAL ENGINEER

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

CONSTRUCTION DETAILS - SOIL BORINGS

CITY OF JACKSONVILLE BEACH, FL

DESIGN	MRK	JOB #	19-1023
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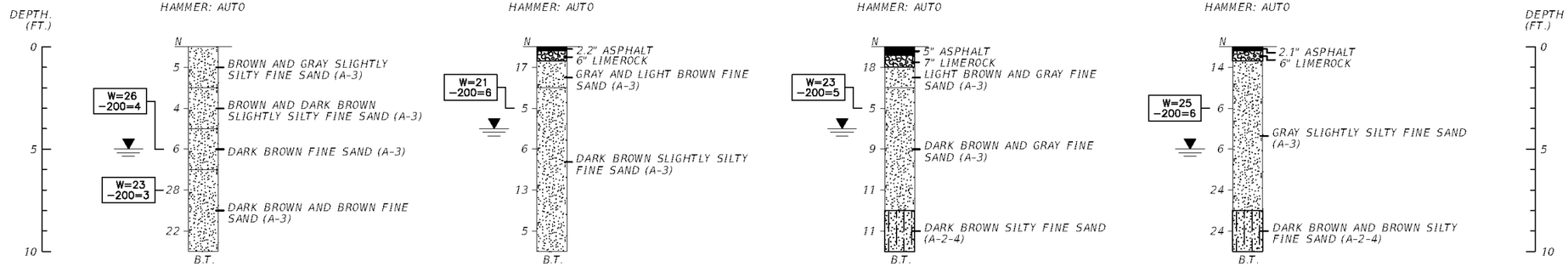
DRAWING NUMBER
D-13

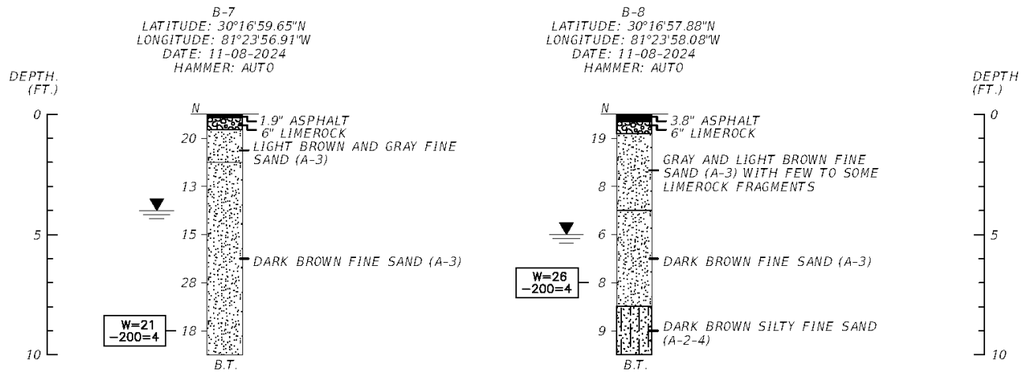
CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II

LAST EDITED BY: BRIAN HAMIL

CAD FILE: R:\19-1023 COJB 10TH ST\X\CDS\PROPOSED MOT.DWG

PLOT DATE AND TIME: 9/26/2025 9:10:19 AM





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GEOTECHNICAL ENGINEERING
CONSTRUCTION MATERIAL TESTING
CONSTRUCTION ENGINEERING INSPECTION

REPORT OF SPT BORINGS
JACKSONVILLE BEACH 10TH ST. SOUTH DRAINAGE IMPROVEMENTS
JACKSONVILLE BEACH, FLORIDA

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

CONSTRUCTION DETAILS - SOIL BORINGS

CITY OF JACKSONVILLE BEACH, FL

DESIGN MRK	DRAWN BRH		
JOB #	19-1023	ISSUE DATE	SEPTEMBER 2025
		ISSUE	BID

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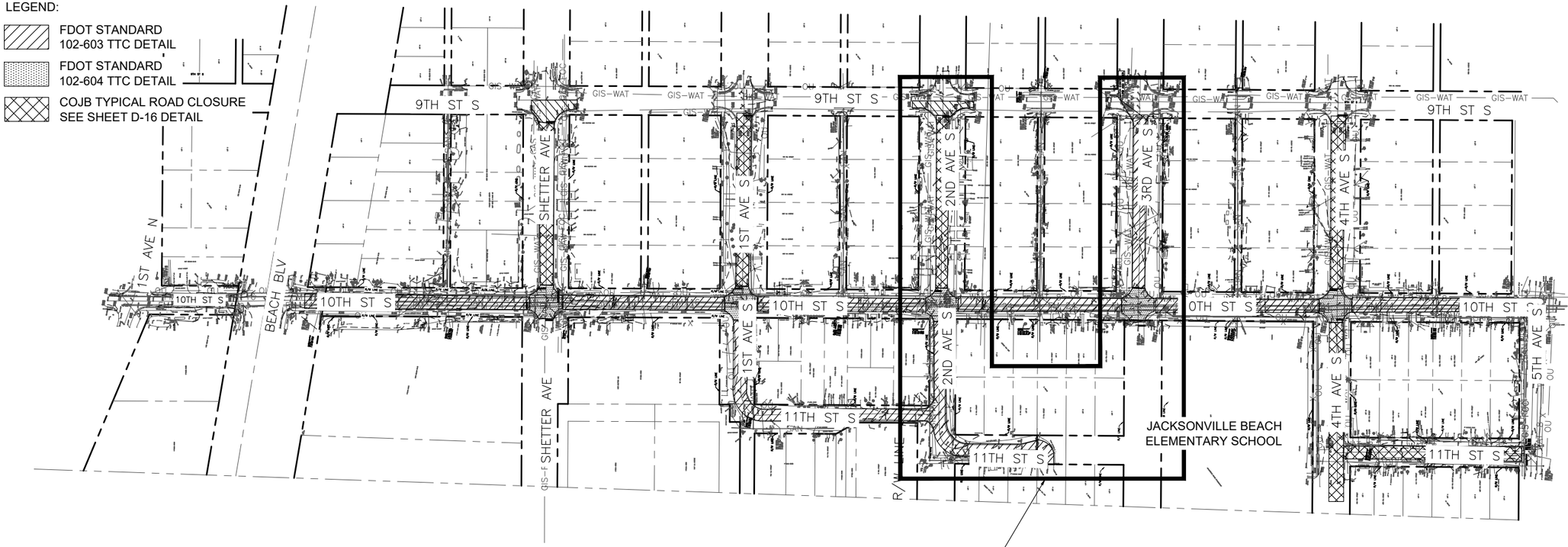
CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II

NOTES:

1. ALL TRAFFIC CONTROL DEVICES SHALL BE MADE AND ERECTED IN ACCORDANCE WITH THE F.D.O.T.
2. CONTRACTOR SHALL ALLOW ACCESS TO PROPERTY OWNER'S PROPERTY DURING CONSTRUCTION AS NECESSARY
3. ONLY ONE STREET BLOCK CAN BE CLOSED AT A TIME
4. CONTRACTOR TO COORDINATE AND RECEIVE APPROVAL WITH JACKSONVILLE BEACH ELEMENTARY SCHOOL FOR TEMPORARY TRAFFIC CONTROL PLAN THAT INCLUDES CONSIDERATION OF STUDENT VEHICLE DROP -OFF AND PICKUP.
5. CONTRACTOR TO COORDINATE AND RECEIVE APPROVAL WITH JACKSONVILLE BEACH ELEMENTARY SCHOOL FOR TEMPORARY TRAFFIC CONTROL PLAN THAT INCLUDES CONSIDERATION OF BUS ROUTE TO AND FROM SCHOOL.
6. BOXED AREA INDICATED BELOW SHALL HAVE CONSTRUCTION OCCUR DURING NON-SCHOOL DAYS FROM JUNE TO AUGUST. ROAD AND UTILITY IMPROVEMENTS SHALL BE COMPLETED IN THIS AREA PRIOR TO SCHOOL STARTING IN AUGUST. THE ROADS SHALL BE PAVED WITH TEMPORARY ASPHALT OR 1" PERMANENT ASPHALT LIFT TO ALLOW FOR SAFE DRIVING CONDITIONS FOR BUS AND PARENT DROP-OFF AND PICK-UP TRAFFIC. IT IS ALSO RECOMMENDED THE CONTRACTOR COMPLETE WORK ON 10TH STREET SOUTH BETWEEN 2ND AVENUE SOUTH AND 3RD AVENUE SOUTH FOR A SAFER WORKING CONDITION.

LEGEND:

- FDOT STANDARD 102-603 TTC DETAIL
- FDOT STANDARD 102-604 TTC DETAIL
- COJB TYPICAL ROAD CLOSURE SEE SHEET D-16 DETAIL



CONSTRUCTION TO OCCUR OVER THE SUMMER WHILE SCHOOL IS NOT IN SESSION (JUNE TO AUGUST). ROADWAYS ARE REQUIRED TO HAVE 1-INCH LIFT OF PERMANENT ASPHALT OR TEMPORARY PAVEMENT BEFORE SCHOOL STARTS MID-AUGUST.

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

TEMPORARY TRAFFIC CONTROL DETAIL

CITY OF JACKSONVILLE BEACH, FL

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DRAWN	BRH	ISSUE DATE	SEPTEMBER 2025
		ISSUE	BID

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CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II

NOTES:

1. ALL TRAFFIC CONTROL DEVICES SHALL BE MADE AND ERECTED IN ACCORDANCE WITH THE F.D.O.T.
2. CONTRACTOR SHALL ALLOW ACCESS TO PROPERTY OWNER'S PROPERTY DURING CONSTRUCTION AS NECESSARY
3. ONLY ONE STREET BLOCK CAN BE CLOSED AT A TIME
4. CONTRACTOR TO COORDINATE AND RECEIVE APPROVAL WITH JACKSONVILLE BEACH ELEMENTARY SCHOOL FOR TEMPORARY TRAFFIC CONTROL PLAN THAT INCLUDES CONSIDERATION OF STUDENT VEHICLE DROP -OFF AND PICKUP.
5. CONTRACTOR TO COORDINATE AND RECEIVE APPROVAL WITH JACKSONVILLE BEACH ELEMENTARY SCHOOL FOR TEMPORARY TRAFFIC CONTROL PLAN THAT INCLUDES CONSIDERATION OF BUS ROUTE TO AND FROM SCHOOL.
6. BOXED AREA INDICATED ON SHEET D-15 SHALL HAVE CONSTRUCTION OCCUR DURING NON-SCHOOL DAYS FROM JUNE TO AUGUST. ROAD AND UTILITY IMPROVEMENTS SHALL BE COMPLETED IN THIS AREA PRIOR TO SCHOOL STARTING IN AUGUST. THE ROADS SHALL BE PAVED WITH TEMPORARY ASPHALT OR 1" PERMANENT ASPHALT LIFT TO ALLOW FOR SAFE DRIVING CONDITIONS FOR BUS AND PARENT DROP-OFF AND PICK-UP TRAFFIC. IT IS ALSO RECOMMENDED THE CONTRACTOR COMPLETE WORK ON 10TH STREET SOUTH BETWEEN 2ND AVENUE SOUTH AND 3RD AVENUE SOUTH FOR A SAFER WORKING CONDITION.

LEGEND:

- FDOT STANDARD 102-603 TTC DETAIL
- FDOT STANDARD 102-604 TTC DETAIL
- COJB TYPICAL ROAD CLOSURE SEE SHEET D-16 DETAIL

ROAD CLOSED
LOCAL TRAFFIC ONLY

ALLOW ACCESS TO PROPERTY (TYP)

TYPE III BARRICADE WITH WARNING LIGHTS AND ROAD CLOSED SIGNS

SHETTER AVE

10TH ST SOUTH

9TH ST SOUTH

953 SHETTER AVE

900 BEACH BLVD

834 BEACH BLVD

818 BEACH BLVD

832 SHETTER AVE

964 SHETTER AVE

940 SHETTER AVE

934 SHETTER AVE

902 SHETTER AVE

53 10th STREET

57 10th STREET

53 9th STREET

PABLO BEACH SOUTH
MAP BOOK 3 PAGE 28

LOT 1 LOT 2 LOT 3 LOT 4 LOT 5 LOT 6 LOT 7 LOT 8 LOT 9 LOT 10 LOT 11 LOT 12

SITE CONTROL
SITE BENCHMARK
SET 1/2" I.P. LB 6979
ELEVATION = 13.86
N 2164511.48
E 530049.60

SANITARY MANHOLE
LID=12.86
N INV.=4.36 12"CLAY
E INV.=4.33 12"CLAY
W INV.=4.40 12"CLAY

PUMP STATION
LID=14.59
FULL OF WATER

SANITARY MANHOLE
LID=14.14
AIR RELEASE VALVE

CATCH BASIN
GRATE=12.90
W INV.=10.56 12" RCP

PGD KEYMAP

177309-0000

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

TYPICAL LANE CLOSURE DETAIL

CITY OF JACKSONVILLE BEACH, FL.

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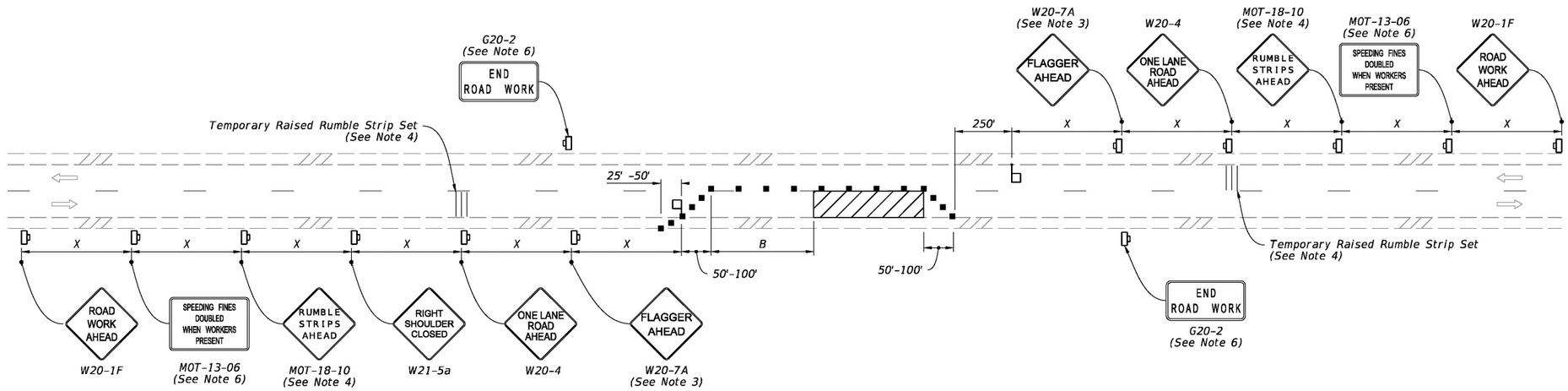
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CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II

LAST EDITED BY: BRIAN HAMIL

CAD FILE: R:\19-1023 COJB 10TH ST\X\CDS\PROPOSED MOT.DWG

PLOT DATE AND TIME: 9/26/2025 9:10:39 AM



NOTES:

1. This Index applies to Two-Lane, Two-Way Roadways with work within the traveled way.

2. L = Taper Length
   B = Buffer Length
   X = Work Zone Sign Spacing
   See Index 102-600 for "L", "B", "X" and channelizing device spacing values.

3. Optionally, use "Flagger Ahead" sign with symbol (W20-7) instead of "Flagger Ahead" sign with text (W20-7A).

4. Use temporary raised rumble strips when the existing posted speed is 55 mph or greater and the work duration is greater than 60 minutes. If temporary raised rumble strips are not used, omit "Rumble Strips Ahead" signs (MOT-18-10) and associated work zone sign spacing.

5. Additional one-way control may be provided by the following means:
   a. Flag-carrying vehicle
   b. Official vehicle
   c. Pilot vehicles
   d. Traffic signals

   When flaggers are the sole means of one-way control, the flaggers must be in sight of each other or in direct communication at all times.

6. The "Speeding Fines Doubled When Workers Present" signs (MOT-13-06) and "End Road Work" signs (G20-2), along with associated work zone sign spacing, may be omitted when the work operation will be in place for 24 hours or less.

7. Automated Flagger Assistance Devices (AFADs) may be used in accordance with Specification Sections 102, 990 and the APL vendor drawings.

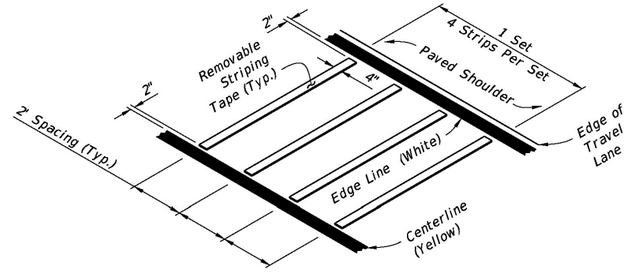
8. Railroad Crossings:

   a. If an active railroad crossing is located closer to the Work Area than the queue length plus 300 feet, extend the Buffer Space as shown on Sheet 2.

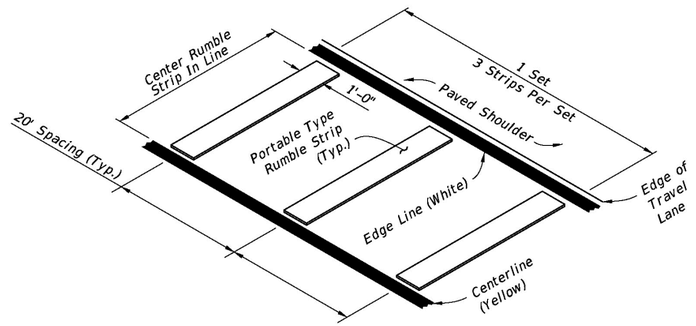
   b. If the queuing of vehicles across an active railroad crossing cannot be avoided, provide a uniformed traffic control officer or flagger at the highway-rail grade crossing to prevent vehicles from stopping within the highway-rail grade crossing, even if automatic train warning devices are in place.

SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Flagger
- Lane Identification and Direction of Traffic



OPTION - 1
REMOVABLE STRIPING TYPE



OPTION - 2
PORTABLE TYPE

RUMBLE STRIP SETS

LAST REVISION	REVISION	DESCRIPTION:
11/01/21		

FDOT FY 2022-23 STANDARD PLANS

TWO-LANE, TWO-WAY WORK WITHIN THE TRAVEL WAY

INDEX 102-603 | SHEET 1 of 2

7:07:33 AM
7/13/2022

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STATE OF
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PROFESSIONAL ENGINEER

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

TTC FDOT DETAILS

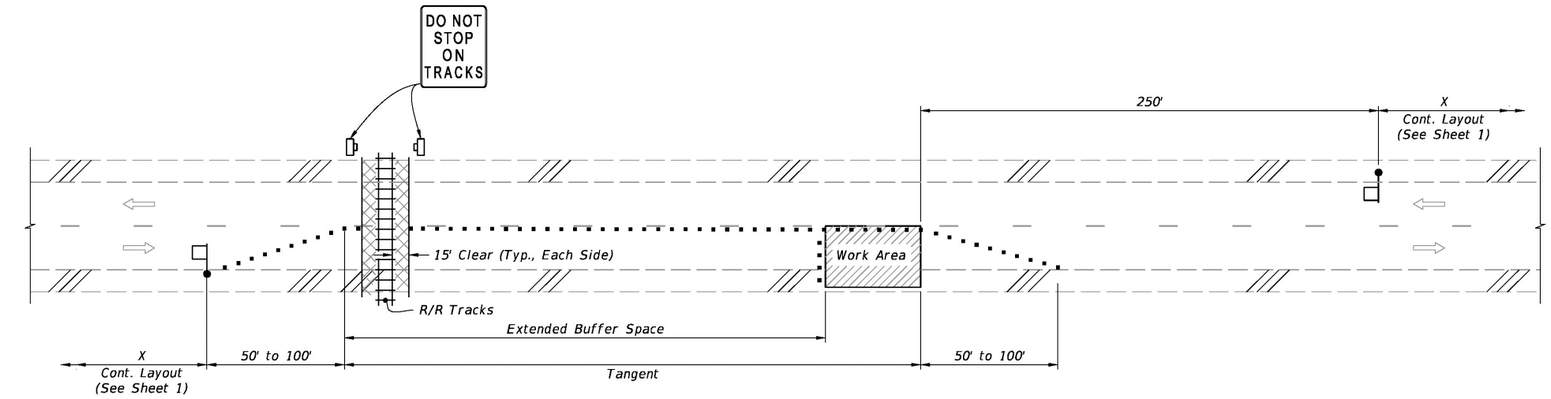
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DESIGN	DRAWN	JOB #	ISSUE DATE	ISSUE
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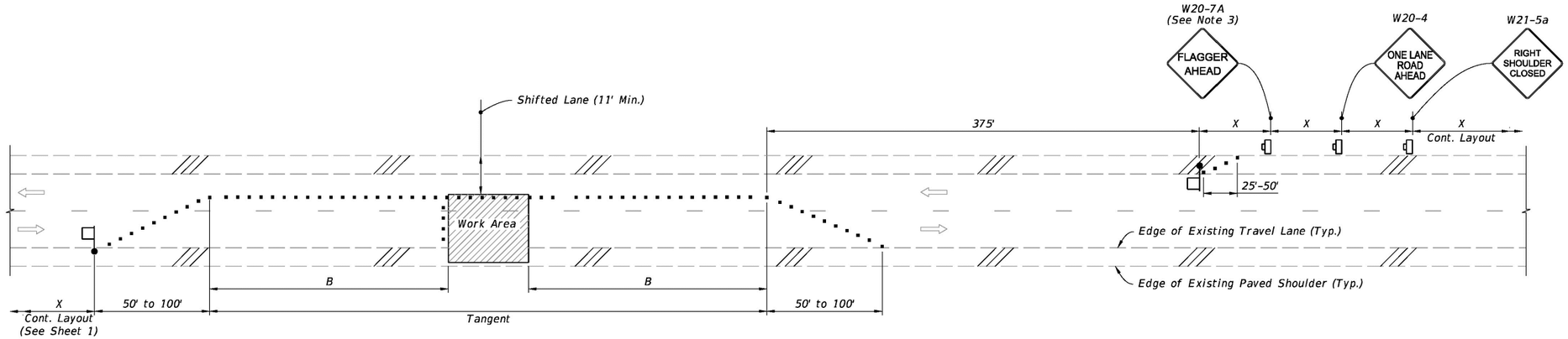
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TEMPORARY RAILROAD CROSSING BUFFER SPACE EXTENSION



TEMPORARY LANE SHIFT TO SHOULDER WHEN WORK AREA ENCROACHES ON THE CENTERLINE
(For Work Operations In place 24 Hours or Less)

SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Flagger
- Lane Identification and Direction of Traffic

SPECIAL CONDITIONS

LAST REVISION	REVISION	DESCRIPTION:	FDOT FY 2022-23 STANDARD PLANS	TWO-LANE, TWO-WAY WORK WITHIN THE TRAVEL WAY	INDEX	SHEET
11/01/21					102-603	2 of 2

7/13/2022 7:06:37 AM

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

TTC FDOT DETAILS

CITY OF JACKSONVILLE BEACH, FL.

DESIGN	DRAWN		
MRK	BRH		
JOB #	19-1023		
ISSUE DATE	SEPTEMBER 2025		
ISSUE	BID		

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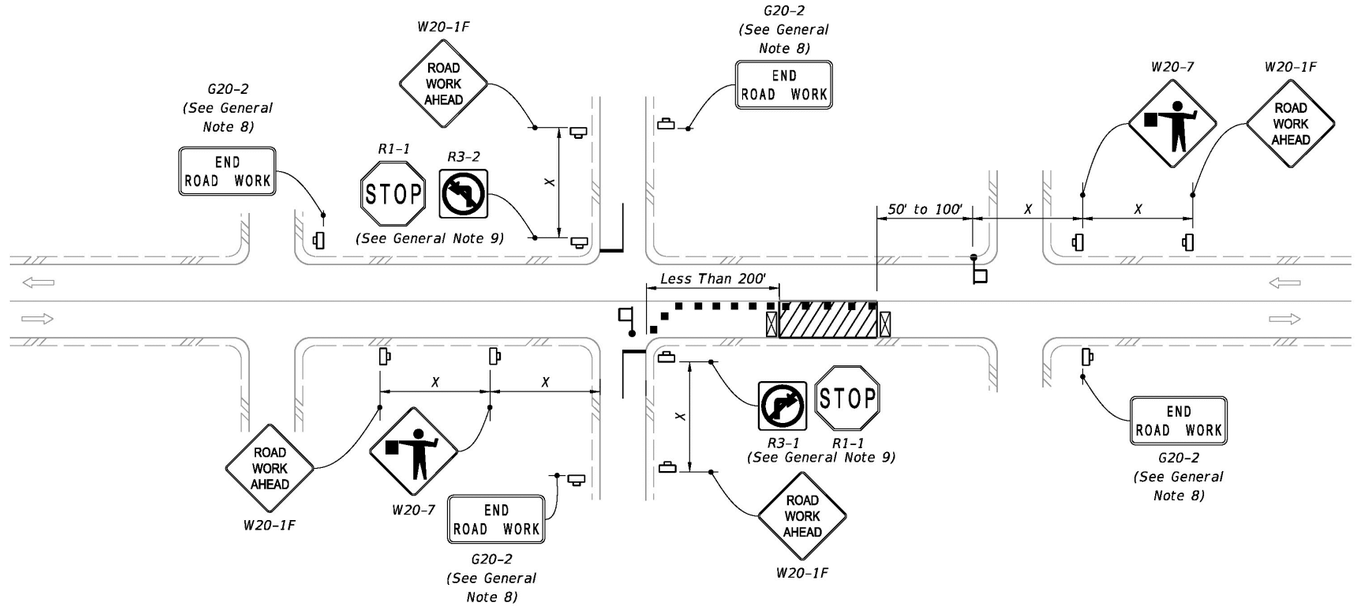
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GENERAL NOTES:

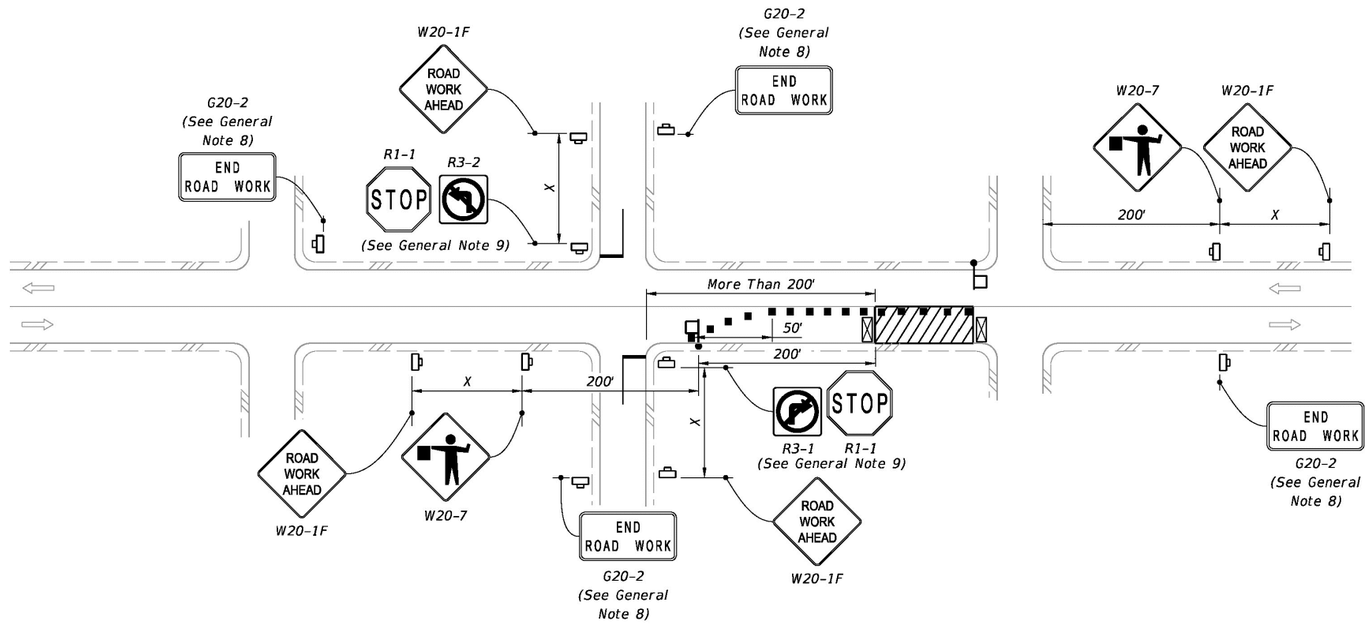
1. This Index applies to two-lane, two-way roadways with work within or near the intersection.
2. X = Work Zone Sign Spacing
   See Index 102-600 for "X" and channelizing device spacing values.
3. Optionally, use "Flagger Ahead" sign with text (W20-7A) instead of "Flagger Ahead" sign with symbol (W20-7).
4. If vehicles in a parking zone block the line of sight to TCZ signs, locate and post mount signs in accordance with Index 700-101.
5. If the work area extends across a crosswalk, close the crosswalk in accordance with Index 102-660.
6. District Traffic Operations Engineer must approve temporary signal phasing modifications prior to beginning of work
7. For unsignalized intersections, use Temporary Raised Rumble Strips in accordance with Index 102-603. Placement of Rumble Strips and additional signs should begin at FLAGGER sign location.
8. The "End Road Work" signs (G20-2) along with the associated work zone sign distances may be omitted when the work zone will be in place for 24 hours or less.
9. As an option to the "STOP" sign (R1-1) and Restricted Left/Right Turning Movement sign (R3-1 or R3-2), the "SIDE ROAD INTERSECTING THE WORK ZONE" flagging operation from Index 102-600 may be used.

SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Type III Barricade
- Stop Bar
- Flagger
- Lane Identification and Direction of Traffic



LANE CLOSURE FOR WORK LESS THAN 200' FROM INTERSECTION



LANE CLOSURE FOR WORK MORE THAN 200' FROM INTERSECTION

LAST REVISION	REVISION	DESCRIPTION:
11/01/21		

FDOT FY 2022-23 STANDARD PLANS

TWO-LANE, TWO-WAY, INTERSECTION WORK

INDEX 102-604

SHEET 1 of 2

9/26/2021 10:15:12 AM

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10TH STREET SOUTH
INFRASTRUCTURE IMPROVEMENTS - PHASE II

TTC FDOT DETAILS

CITY OF JACKSONVILLE BEACH, FL

DESIGN	DRAWN
MRK	BRH
JOB #	19-1023
ISSUE DATE	SEPTEMBER 2025
ISSUE	BID

FOUR WATERS ENGINEERING
324 6th AVE N., JACKSONVILLE BEACH, FLORIDA 32250
904-414-2400 C.O.A.# 31101 WWW.4WENG.COM

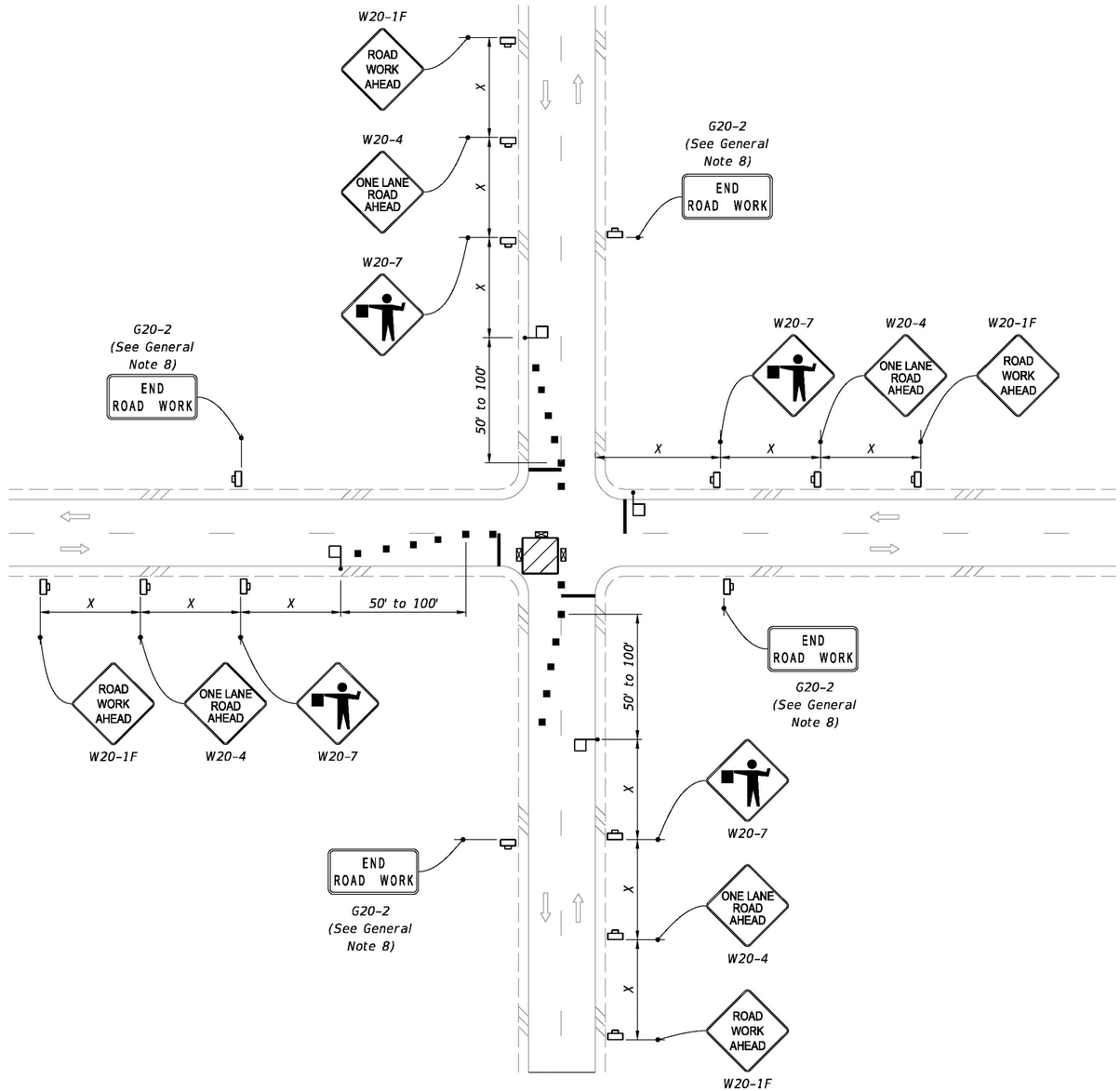
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CITY BID No. 2526-01 10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II

LAST EDITED BY: BRIAN HAMIL

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PLOT DATE AND TIME: 9/26/2025 9:10:44 AM



SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Type III Barricade
- Stop Bar
- Flagger
- Lane Identification and Direction of Traffic

WORK IN INTERSECTION OF TWO-LANE ROADWAY

LAST REVISION	REVISION	DESCRIPTION:
11/01/21		

FDOT FY 2022-23 STANDARD PLANS

TWO-LANE, TWO-WAY, INTERSECTION WORK

INDEX 102-604

SHEET 2 of 2

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10TH STREET SOUTH INFRASTRUCTURE IMPROVEMENTS - PHASE II

TTC FDOT DETAILS

CITY OF JACKSONVILLE BEACH, FL

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