CONSTRUCTION PLANS for INDIAN RIVER COUNTY NORTH COUNTY WATER & SEWER SYSTEM PHASE 2

INDIAN RIVER COUNTY, FLORIDA OCTOBER, 2020

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DESCRIPTION

REVISIONS

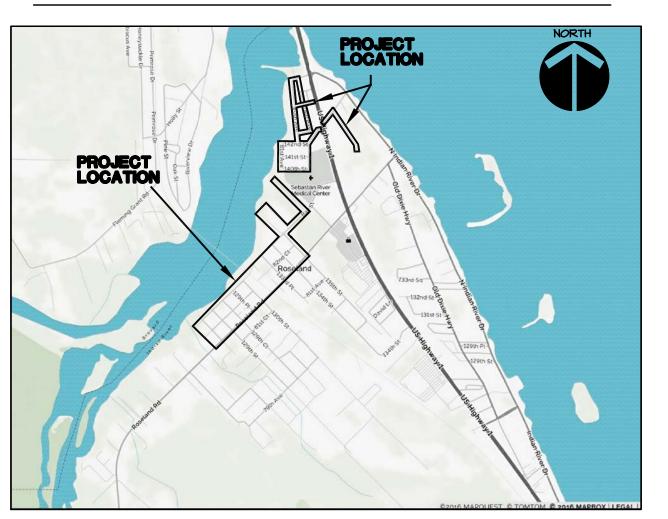
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VICINITY MAP (NOT TO SCALE)





OWNER/APPLICANT

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ENGINEER

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12/01/2020

EARL H. MASTELLER, P.E. FL#26658

GENERAL NOTES

NOTIFY:

1. ALL WORK SHALL BE COMPLETED IN CONFORMANCE AS APPLICABLE WITH FLORIDA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION." LATEST EDITION

2. SHOP DRAWINGS SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE FOR REVIEW AND APPROVAL PRIOR TO MANUFACTURE.

3. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ANY UNDERGROUND UTILITIES PRIOR TO EXCAVATION.

4. ALL DIMENSIONS MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR AND IF ANY DISCREPANCIES ARE DISCOVERED, THE OWNER SHALL BE NOTIFIED IMMEDIATELY.

5. CONTRACTOR SHALL COORDINATE ALL WORK WITH UTILITY COMPANIES PRIOR TO START OF CONSTRUCTION IN ORDER TO PREVENT DAMAGE TO EXISTING UTILITIES AND THE ADJUSTMENT AND/OR RELOCATION OF SAME IF REQUIRED

6. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY AND ALL REQUIRED ROAD CROSSING PERMITS.

7. CONTRACTOR IS ADVISED TO FAMILIARIZE HIMSELF WITH THE OVERALL SCOPE OF WORK TO BE PERFORMED PRIOR TO SUBMITTING A BID.

8. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNER OF ANY CHANGES OR DEVIATIONS FROM THE ORIGINAL PLANS PRIOR TO CONSTRUCTION OF SAID CHANGE OR DEVIATION.

9. THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO SAFEGUARD ALL EXISTING STRUCTURES AND UTILITIES. ANY DAMAGES SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE.

10. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY INSURANCE AND BONDS REQUESTED BY THE OWNER FOR THIS PROJECT.

11. THE OWNER WILL PROVIDE THE SELECTED CONTRACTOR WITH COPIES OF ALL PERMITS RECEIVED FOR THE PROJECT.

12. ANY FEDERAL DATUM MONUMENT WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF IN DANGER OF DAMAGE THE PROJECT ENGINEER SHOULD

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13. THE ELEVATIONS AS SHOWN ON THESE PLANS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

14. THE CONTRACTOR IS TO USE CAUTION WHEN WORKING IN OR AROUND AREAS OF OVERHEAD TRANSMISSION LINES OR UNDERGROUND UTILITIES.

15. ANY PUBLIC LAND CORNER WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE PROJECT ENGINEER SHOULD BE NOTIFIED IMMEDIATELY IN ORDER THAT THE COUNTY MAY HAVE A SURVEYOR REFERENCE SAID POINT PRIOR TO DISTURBANCE. ALSO, ALL GPS CONTROL POINTS ARE TO BE PROTECTED. IF DESTROYED DURING CONSTRUCTION, IT WILL BE THE CONTRACTOR RESPONSIBILITIES TO REPLACE THE GPS CONTROL POINTS AT THEIR EXPENSE.

16. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE, AT ALL TIMES. ONE COPY OF APPROVED CONSTRUCTION PLANS, SPECIFICATIONS AND ANY SPECIAL PROVISIONS, AND COPIES OF ANY REQUIRED CONSTRUCTION PERMITS.

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

EROSION CONTROL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EROSION CONTROL WITHIN BEST MANAGEMENT PRACTICES FOR THE DURATION OF THE PROJECT UNTIL SUCH TIME AS THE PROJECT HAS BEEN CERTIFIED AS COMPLETE.

2. THE CONTRACTOR SHALL SEED & MULCH OR SOD ALL OPEN SPACE AREAS TO BE GRASSED IMMEDIATELY FOLLOWING FINAL GRADING AND COMPLETION OF ALL UNDERGROUND UTILITIES.

3. SILT FENCES SHALL BE INSTALLED ALONG LIMITS OF CONSTRUCTION

4. SILT FENCES SHALL BE INSPECTED AFTER EACH RAINFALL AND REPAIRED IMMEDIATELY IF DAMAGED

5. ALL SIDE SLOPES OF STORMWATER MANAGEMENT AREAS SHALL BE SODDED ON COMPLETION OF FINAL GRADING.

6. ALL INLETS SHALL BE PROTECTED FROM COLLECTION OF ERODED MATERIALS BY INSTALLATION OF TEMPORARY

FILTER FABRIC AND/OR HAYBALES.

7. FLOATING TURBITITY BARRIERS SHALL BE INSTALLED WITHIN ALL WATER BODIES DOWNSTREAM OF CONSTRUCTION

ACTIVITES WHERE PROTECTION AGAINST TURBID WATERS

DISCHARGE MAY OCCUR. 8. ALL DISTURBED AREAS WITHIN RIGHTS-OF-WAY SHALL BE SODDED

WITHIN THREE DAYS OF FINAL GRADING.

CONSTRUCTION STAKEOUT NOTIFICATION

SOME CONSTRUCTION ELEMENTS DEPICTED ON THESE PLANS ARE DRAWN NOT TO SCALE IN ORDER TO PROVIDE CLARITY AS TO THE SCOPE OF WORK. THESE ELEMENTS INCLUDE BUT MAY NOT BE LIMITED TO CURBS, MANHOLES, VALVES, METERS & FIRE HYDRANTS, ETC. THE CONTRACTOR IS ADVISED TO UTILIZE BOTH THE PLAN VIEW AND DETAILS TO ACCURATELY CONSTRUCT ALL PROPOSED IMPROVEMENTS.

UTILITIES NOTES:

1. ALL UTILITIES TO BE CONSTRUCTED IN ACCORDANCE WITH INDIAN RIVER COUNTY UTILITIES STANDARDS.

2. THE CONTRACTOR SHALL NOTIFY THE OWNER, ENGINEER AT (772-) 567-5300 AND UTILITIES DEPARTMENT A MINIMUM OF (48) HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.

3. ALL POTABLE WATER PIPING, JOINTING AND PACKING MATERIALS, INTERNAL COATING AND LININGS, FITTINGS, SPECIALS, AND APPURTENANCES USED IN THIS PROJECT SHALL BE IN CONFORMANCE WITH THE CORRESPONDING AWWA STANDARDS AND BE CONFORMING TO NSF REQUIREMENTS AS APPLICABLE.

4. ALL PIPE AND PIPE FITTINGS AS WELL AS SOLDER AND FLUX INSTALLED OR USED UNDER THE CONSTRUCTION OF THIS PROJECT ARE TO COMPLY WITH F.A.C. 62-555.322 WITH REGARD TO LEAD.

5. ALL WATER SERVICE LINES INSTALLED UNDER THIS PROJECT ARE TO COMPLY WITH AWWA C800.

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6. ALL PEXa TUBING 3" AND SMALLER FOR WATER MAINS SHALL BE THICKNESS SDR-9 MEETING AWWA C904

7. ALL PVC PIPE 4"-12" IN DIAMETER FOR WATER MAINS SHALL BE THICKNESS CLASS DR-18 MEETING AWWA C900-97, OR LATEST REVISION, OR C909-98, OR LATEST REVISION.

8. ALL PVC PIPE 14"-36" IN DIAMETER FOR WATER MAINS SHALL BE THICKNESS CLASS DR-18 MEETING AWWA C900-97 AND ASTM D1784, OR LATEST REVISIONS.

9. ALL DIP FOR WATER MAINS SHALL BE PRESSURE CLASS 350 MEETING AWWA SPECIFICATION C150 (A 21.50-96) OR LATEST REVISION.

10. ALL PVC PIPE FOR GRAVITY SEWER MAINS SHALL BE EXTRA STRENGTH PVC PIPE AND SHALL CONFORM TO THE LATEST ASTM DESIGNATION D3034-SDR26 AND SHALL BE PAINTED GREEN OR APPROVED EQUAL.

11. ALL PVC PIPE FOR SEWAGE FORCE MAIN 4" - 12" DIAMETER SHALL BE C900 OR C909, LATEST REVISIONS AND SHALL BE BROWN OR GREEN OR APPROVED EQUAL.

12. ALL PVC PIPE FOR REUSE FORCE MAIN 4" - 12" DIAMETER SHALL BE C900 OR C909, LATEST REVISIONS AND SHALL BE PURPLE OR APPROVED EQUAL.

13. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ANY UNDERGROUND UTILITIES PRIOR TO EXCAVATION.

14. ALL GENERAL CONSTRUCTION, MATERIAL TESTING AND METHODS OF INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF INDIAN RIVER COUNTY UTILITIES.

15. ALL POTABLE WATER PIPE AND PIPE FITTINGS INSTALLED WILL BE COLOR CODED OR MARKED IN ACCORDANCE WITH SUBPARAGRAPH 62-555.320(21)(B)3, F.A.C. USING BLUE AS THE PREDOMINANT COLOR.

16. ALL DIMENSIONS MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR AND IF ANY DISCREPANCIES ARE DISCOVERED, THE OWNER SHALL BE NOTIFIED IMMEDIATELY.

17. CONTRACTOR SHALL COORDINATE ALL WORK WITH UTILITY COMPANIES PRIOR TO START OF CONSTRUCTION IN ORDER TO PREVENT DAMAGE TO EXISTING UTILITIES AND THE ADJUSTMENT AND/OR RELOCATION OF SAME IF REQUIRED.

18. CONTRACTOR SHALL OBTAIN A COPY OF THE F.D.E.P. WATER & WASTEWATER PERMITS AND PERFORM SAMPLING & TESTING IN CONFORMANCE WITH THE PERMIT CONDITIONS.

19. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY AND ALL REQUIRED ROAD CROSSING PERMITS.

20. CONTRACTOR IS ADVISED TO FAMILIARIZE HIMSELF WITH THE OVERALL SCOPE OF WORK TO BE PERFORMED PRIOR TO SUBMITTING A BID.

21. WATER MAIN AND FORCE MAINS SHALL BE INSTALLED WITH 36" MINIMUM COVER AND SHALL BE CONSTRUCTED SO AS TO AVOID EXISTING AND KNOWN FUTURE UTILITY LOCATIONS

22. ALL WORK SHALL BE COMPLETED IN CONFORMANCE AS APPLICABLE WITH FLORIDA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION," LATEST EDITION AND THE STANDARDS OF THE UTILITY OWNER.

23. WATERMAIN & FORCEMAIN PIPES INSTALLED UNDER PAVEMENT SHALL BE D.I.P. WITH 36" MIN. COVER (42" MIN. COVER FOR P.V.C. PIPE).

24. BENDS SHALL BE INSTALLED ON WATER MAINS AS NECESSARY TO AVOID CONFLICT WITH PROPOSED OR EXISTING STRUCTURES AT NO ADDITIONAL COST TO

25. ALL CONSTRUCTION SHALL COMPLY WITH THE STANDARDS AND SPECIFICATIONS OF THE UTILITY OWNER. SHOP DRAWINGS FOR ALL SEWER AND WATER APPURTENANCES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION.

26. ALL PRESSURE AND BACTERIOLOGICAL TESTING FOR WATER MAINS, TV/INFILTRATION/EXFILTRATION TESTS FOR GRAVITY SEWER AND PRESSURE TEST FOR FORCE MAINS, SHALL BE COMPLETED AT THE CONTRACTOR'S EXPENSE AND COORDINATED WITH THE OWNER, ENGINEER AND UTILITY OWNER. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH ALL TEST RESULTS.

27. THE CONTRACTOR SHALL SUPPLY THE OWNER AND ENGINEER WITH TWO COPIES OF AS-CONSTRUCTED INFORMATION SHOWING THE CONSTRUCTED LOCATION OF ALL MAINS, FITTINGS, VALVES, LATERALS (AT THE MAIN AND TERMINAL POINT), MANHOLES AND OTHER WATER AND SEWER APPURTENANCES. THE FORMAT SHALL BE APPROVED BY THE OWNER AND/OR UTILITY PRIOR TO SUBMISSION.

28. WATER MAINS AND FORCE MAIN SHALL BE FLUSHED AT A MINIMUM VELOCITY OF 2.5 FPS PRIOR TO PRESSURE TESTING AND DISINFECTION.

29. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNER OF ANY CHANGES OR DEVIATIONS FROM THE ORIGINAL PLANS PRIOR TO CONSTRUCTION OF SAID CHANGE OR DEVIATION.

30. THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO SAFEGUARD ALL EXISTING STRUCTURES AND UTILITIES. ANY DAMAGES SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE.

31. LATERALS AND CLEANOUTS SHALL BE INSTALLED AS REQUIRED BY APPLICABLE PLUMBING CODES.

32. INSPECTION OR FAILURE TO INSPECT ANY MATERIALS OR WORKMANSHIP BY THE UTILITY OWNER OR OTHER AGENCIES SHALL IN NO WAY RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO PERFORM THE WORK IN ACCORDANCE WITH APPLICABLE PLANS, SPECIFICATIONS AND LAWS.

33. THE CONTRACTOR SHALL OBTAIN A CURRENT COPY OF THE UTILITY OWNER CONSTRUCTION SPECIFICATIONS FOR WATER DISTRIBUTION AND SEWAGE COLLECTION FACILITIES PRIOR TO BIDDING THE UTILITY WORK. IN THE EVENT THAT THERE IS A DISCREPANCY BETWEEN THE UTILITY'S SPECIFICATIONS AND THE ENGINEER'S SPECIFICATIONS, THE UTILITY'S SPECIFICATIONS SHALL SUPERSEDE.

34. TRACE WIRE SHALL BE INSTALLED OVER ALL WATER MAINS AND SEWAGE FORCE MAINS. #10 MULTIPLE-STRAND CONDUCTOR COPPER TRACE WIRE SHALL BE AFFIXED TO THE TOP OF PIPE. SEE TRACE WIRE DETAIL FOR SPECIFICATIONS.

35. USE POTABLE WATER FOR PRESSURE TESTS.

36. ALL POTABLE WATER MAINS SHALL BE CONSTRUCTED OF P.V.C. PIPE UNLESS NOTED OTHERWISE.

37. FORCE MAIN SHALL BE PRESSURE TESTED THE SAME AS WATER MAINS, EXCEPT THAT TEST PRESSURE SHALL AVERAGE NO LESS THAN 100 PSI. 38. THE CONTRACTOR SHALL DISINFECT THE NEW WATER SYSTEM IN CONFORMANCE WITH AWWA-C651 SPECIFICATIONS ANT THE NOTES THIS SHEET. A

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39. WATER SYSTEM PRESSURE TESTS SHALL BE COMPLETED IN THE PRESENCE OF THE ENGINEER OR HIS REPRESENTATIVE, FOR TWO (2) HOURS IN DURATION AS ACCEPTABLE TO UTILITY OWNER, AT AN AVERAGE PRESSURE OF 150 PSI. ALLOWABLE LEAKAGE WILL BE COMPUTED BASED ON AWWA C600 FOR DIP AND AWWA C605 FOR PVC.

NDD 1/2	WHERE: L = LEAKAGE ALLOWABLE (GPH)
L =	N = NUMBER OF JOINTS
7400	D = NOMINAL DIAMETER (INCHES)
	P = AVERAGE PRESSURE (PSI)

PRESSURE TESTING FOR PVC PIPE SHALL BE BASED ON AWWA STANDARD C605.

40. A CONTINUOUS AND UNIFORM BEDDING WILL BE PROVIDED IN TRENCHES FOR UNDER-GROUND PIPE. BACKFILL OVER ANY WATER MAIN, FORCE MAIN AND SANITARY SEWER THAT IS TO BE INSTALLED UNDER PAVING, IS TO BE COMPACTED IN 12" LIFTS MAXIMUM TO A MINIMUM OF 95% MAXIMUM DENSITY WITH A MECHANICAL TAMPER OR OTHER MEANS ACCEPTABLE TO THE OWNER AND/OR ENGINEER. UNSUITABLY SIZED STONES (AS DESCRIBED IN AWWA STANDARDS) SHALL BE REMOVED FROM THE TRENCH FOR A DEPTH OF AT LEAST SIX INCHES BELOW THE BOTTOM OF THE PIPE. THE CONTRACTOR SHALL PROVIDE THE OWNER WITH COMPACTION TEST RESULTS AT 400' INTERVALS AT HIS EXPENSE BASED ON AASHTO T-180 SPECIFICATIONS.

41. AT ALL INSTANCES WHERE WATER MAINS CROSS ABOVE OR BELOW REUSE MAINS, STORM CULVERTS, SANITARY SEWER, OR SANITARY SEWER FORCE MAIN, THE CONTRACTOR IS TO PRO-VIDE "AS-BUILT" INFORMATION TO THE ENGINEER DETAILING THE VERTICAL CLEARANCE OBTAINED.

42. WATER MAINS SHALL BE LAID AT LEAST 7 FEET (EDGE TO EDGE) FROM ANY EXISTING OR PROPOSED STORM SEWER, SANITARY SEWER, OR SANITARY SEWER FORCE MAIN. WATER MAINS CROSSING SEWERS OR STROM PIPES SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL CLEARANCE OF 18 INCHES AND SHALL BE LAID SO THAT ONE FULL LENGTH OF WATER MAIN PIPE WILL BE CENTERED AT THE CROSSING.

WATER MAINS SHALL NEITHER PASS THROUGH NOR CONTACT SEWER MANHOLES.

PLEASE NOTE IN THE EVENT THAT F.D.E.P. AND CITY OF INDIAN RIVER COUNTY STANDARDS CONFLICT. THE MORE STRINGENT STANDARD SHALL APPLY.

42. WATER MAINS CROSSING ANY UTILITIES WILL BE LAID SO THAT ONE FULL LENGTH OF WATER MAIN WILL BE CENTERED AT THE CROSSING.

PAVING / DRAINAGE NOTES

. ALL STORMWATER PIPES SHALL BE REINFORCED CONCRETE PIPE (RCP), CAP, CLASS III OR ADS PIPE (MANNINGS "n" = 0.012) AS NOTED ON THE PLANS AND IN ACCORDANCE WITH THE SPECIFICATIONS.

2. INLETS SHALL BE PRE-CAST IN CONFORMANCE WITH F.D.O.T. STANDARD SPECIFICATIONS WITH 28 DAY 4000 PSI CONCRETE.

3. ALL BACKFILL OVER STORM PIPES UNDER PLANNED PAVEMENT AREAS SHALL BE COMPACTED PER F.D.O.T. STANDARD SPECIFICATIONS, SECTION 125.8.3., TO 98% OF THE MAXIMUM DENSITY PER AASHTO T-180.

4. ADJUSTMENT OF INLET TOPS SHALL BE INCLUDED IN THE CONTRACTOR'S BID. NO CLAIM SHALL BE MADE AGAINST THE OWNER AND/OR ENGINEER IN THE EVENT ADJUSTMENTS ARE NECESSARY.

5. CONTRACTOR SHALL COORDINATE CONNECTIONS TO EXISTING STORM DRAINAGE FACILITIES AND SHALL VERIFY LOCATION AND ELEVATION OF SAID FACILITIES PRIOR TO THE START OF CONSTRUCTION. ANY FACILITIES DISTURBED SHALL BE REPAIRED TO EQUAL OR BETTER THAN EXISTING CONDITIONS.

6. THE OWNER RESERVES THE RIGHT TO REQUEST FROM THE CONTRACTOR ASPHALTIC CONCRETE SURFACE COURSE MIX CERTIFICATIONS TO ASSURE COMPLIANCE WITH F.D.O.T. SPECIFICATIONS.

7. EXTRA BASE MATERIAL SHALL BE REQUIRED AT CROSS CULVERTS WHEN COVER DIMENSION IS LESS THAN 12" BELOW BOTTOM OF BASE (F.D.O.T. INDEX NO. 205).

8. ALL DISTURBED STRIPING AND SIGNAGE TO BE REPLACED. STRIPING TO BE THERMOPLASTIC CONFORMING TO F.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

MAINTENANCE OF TRAFFIC NOTES

1. THE CONTRACTOR SHALL NOTIFY TRAFFIC ENGINEERING AT (772) 226-1326, 72 HOURS PRIOR TO BEGINNING CONSTRUCTION.

2. THE CONTRACTOR SHALL INSTALL STAND MOUNTED ADVANCE CONSTRUCTION SIGNING IN ACCORDANCE WITH F.D.O.T. STANDARD INDEX 602 FOR ANY WORK LESS THAN 15 FEET FROM THE EDGE OF PAVEMENT.

3. THERE SHALL BE NO EXCAVATIONS LEFT OPEN WHEN WORK IS NOT ACTIVELY BEING PERFORMED.

4. TRAFFIC SHALL BE RESTRICTED TO A SINGLE LANE WHEN ANY WORK ENCROACHES THE AREA BETWEEN THE CENTERLINE AND 2 FEET OUTSIDE THE EDGE OF PAVEMENT. ONE-LANE CLOSURES SHALL BE IN ACCORDANCE WITH F.D.O.T. STANDARD INDEX 603 . TRAFFIC ENGINEERING SHALL BE NOTIFIED 24 HOURS IN ADVANCE OF ANY LANE CLOSINGS.

5. ALL CONSTRUCTION EQUIPMENT AND MATERIALS SHALL BE STORED A MINIMUM OF 15 FEET FROM THE EDGE OF PAVEMENT AND SHALL BE PROTECTED BY TYPE II BARRICADES WITH FLASHING LIGHTS

6. CONSTRUCTION FENCING USED IN THE WORK AREA TO PROTECT EQUIPMENT OR EXCAVATIONS SHALL NOT BLOCK SIGHT DISTANCE NEAR INTERSECTIONS OR DRIVEWAYS

7. ACCESS TO PROPERTY OWNERS AS WELL AS EMERGENCY ACCESS SHALL BE MAINTAINED AT ALL TIMES.

8. WORK IN THE RIGHT-OF-WAY SHALL BE CONDUCTED IN ACCORDANCE WITH F.D.O.T. STANDARDS AT LEAST ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL REMAIN OPEN AT ALL TIMES.

FDEP SEPARATION NOTES:

1. NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LA PROVIDE A HORIZONTAL DISTANCE OF AT LEAST SEVEN FEET, AND P TEN FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE O OF ANY EXISTING OR PROPOSED GRAVITY- OR PRESSURE-TYPE SAN SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING REC WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C MINIMUM HORIZONTAL SEPARATION DISTANCE BETWEEN WATER MA GRAVITY-TYPE SANITARY SEWERS SHALL BE REDUCED TO THREE F THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST SIX INCHES ABO TOP OF THE SEWER. NEW OR RELOCATED, UNDERGROUND WATER CROSSING AN EXISTING OR PROPOSED GRAVITY- OR VACUUM-TYPE SANITARY SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATER M IS AT LEAST SIX INCHES, AND PREFERABLY 12 INCHES, ABOVE OR A LEAST 12 INCHES BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE. AT THE UTILITY CROSSING DESCRIBED ABOVE. ON FULL LENGTH OF

MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPE SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM TH OTHER PIPELINE, ALTERNATIVELY, AT SUCH CROSSINGS, THE PIPES BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THE FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWER, OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CH 62-610 F.A.C., AND AT LEAST SIX FEET FROM ALL JOINTS IN GRAVITY PRESSURE-TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, PIPELINES CONVEYING RECLAIMED WATER NOT REGULATED UNDER

PART III OF CHAPTER 62-610 F.A.C.

PLEASE NOTE IN THE EVENT THAT F.D.E.P. AND INDIAN RIVER COUN STANDARDS CONFLICT, THE MORE STRINGENT STANDARD SHALL AP 2. WATER MAINS CROSSING ANY UTILITIES WILL BE LAID SO THAT ONE

WATER MAIN WILL BE CENTERED AT THE CROSSING.

62-555.340 Disinfection and Bacteriologic Evaluation of Public Water System Com

(2) BACTERIOLOGICAL EVALUATIONS TO VERIFY PROPER DISINF STORAGE FACILITIES AND WATER MAINS SHALL BE CONDUCTED AS PARAGRAPHS (A) THROUGH (C) BELOW, THE TOTAL RESIDUAL CHLO REQUIRED UNDER PARAGRAPH (A) MAY BE PERFORMED BY ANY AU REPRESENTATIVE OF THE SUPPLIER OF WATER OR PERSON CONS THE TREATMENT OR STORAGE FACILITIES OR WATER MAINS BUT S

FOLLOWING THE APPROPRIATE PROCEDURES IN THE DEPARTMENT PROTECTION STANDARD OPERATING PROCEDURES FOR FIELD ACT AS INCORPORATED INTO RULE 62-160.800, F.A.C. THE TOTAL COLIF UNDER PARAGRAPH (A) SHALL BE PERFORMED BY A LABORATORY HEALTH (DOH) OR A LABORATORY CERTIFIED BY THE DOH TO PERF ANALYSES OF DRINKING WATER AND SHALL BE PERFORMED USING REFERENCED IN SUBSECTION 62-550.550(1), F.A.C.

(A) AFTER REDUCING THE TOTAL CHLORINE RESIDUAL IN THE FAC MORE THAN FOUR MILLIGRAMS PER LITER, A TOTAL OF AT LEAST T ON A SEPARATE DAY AND TAKEN AT LEAST SIX HOURS APART FROI SHALL BE COLLECTED AT EACH OF THE LOCATIONS INDICATED IN STANDARD REFERENCED IN SUBSECTION (1) ABOVE, AND THE SAM FOR TOTAL RESIDUAL CHLORINE AND FOR THE PRESENCE OF TOT

(B) IF ANY SAMPLE CONTAINS MORE THAN FOUR MILLIGRAMS PE CHLORINE, THE SAMPLE SHALL BE CONSIDERED INVALID. IF ANY SA PRESENCE OF TOTAL COLIFORM, THE FACILITIES OR MAINS SHALL NECESSARY IN ACCORDANCE WITH SUBSECTION (1) ABOVE AND R WITH PARAGRAPH (A) ABOVE UNTIL TWO CONSECUTIVE SAMPLES A LOCATION SHOW THE ABSENCE OF TOTAL COLIFORM.

(C) BACTERIOLOGICAL TEST RESULTS SHALL BE CONSIDERED UN TESTS WERE COMPLETED MORE THAN 60 DAYS BEFORE THE DEPAR RESULTS.

(5) WHEN TAKING WATER MAINS OUT OF OPERATION FOR REPAIR MIGHT LEAD TO CONTAMINATION OF WATER, THE MAINS MAY BE RE WITHOUT THE DEPARTMENT'S APPROVAL AFTER DISINFECTION AN A BACTERIOLOGICAL EVALUATION IN ORDER TO MINIMIZE THE TIM WITHOUT WATER. AN ADVISORY OR A PRECAUTIONARY "BOIL WAT ISSUED IF DEEMED NECESSARY BY THE SUPPLIER OF WATER OR DEPARTMENT OF HEALTH'S "GUIDELINES FOR THE ISSUANCE OF PF WATER NOTICES" AS ADOPTED IN RULE 62-555.335, F.A.C. A BACTEI STILL MUST BE SATISFACTORILY COMPLETED IN ACCORDANCE WI AFTER THE MAINS ARE RETURNED TO OPERATION. IF ANY BACTER THE PRESENCE OF TOTAL COLIFORM, THE SUPPLIER OF WATER SH SPEAK DIRECTLY TO A PERSON AT, THE APPROPRIATE DEPARTME PROTECTION (DEP) DISTRICT OFFICE OR APPROVED COUNTY HEAL AS SOON AS POSSIBLE, BUT NEVER LATER THAN NOON OF THE NE OTHERWISE, THE RESULTS OF THE BACTERIOLOGICAL EVALUATION THE APPROPRIATE DEP DISTRICT OFFICE OR ACHD ALONG WITH T OPERATION REPORT(S) REQUIRED UNDER PARAGRAPH 62-555.350(MONTHLY OPERATION REPORT IS REQUIRED UNDER PARAGRAPH (WITHIN TEN DAYS AFTER THE END OF THE MONTH DURING WHICH

EVALUATION WAS COMPLETED.

PHASE 2

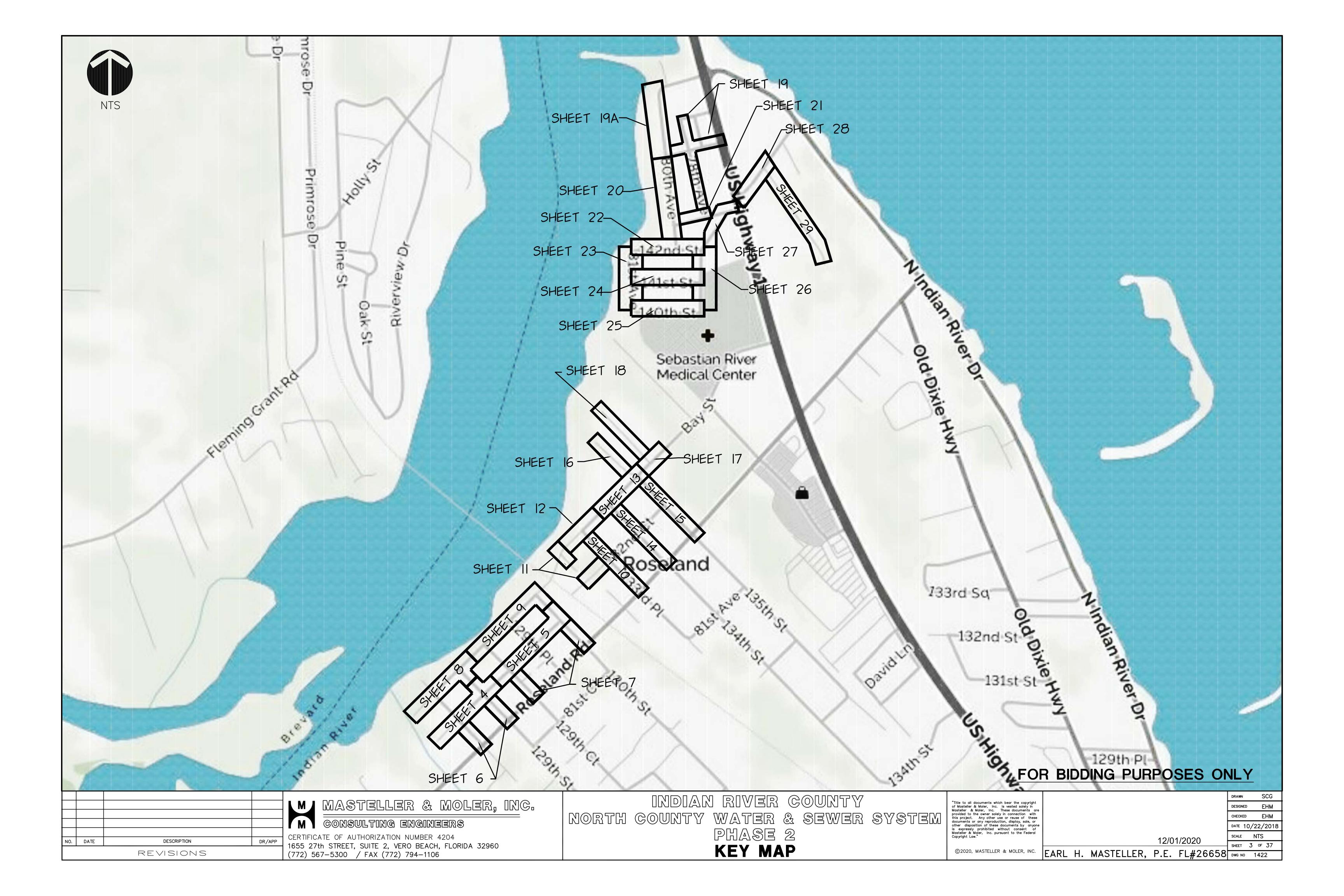
CONSTRUCTION NOTES

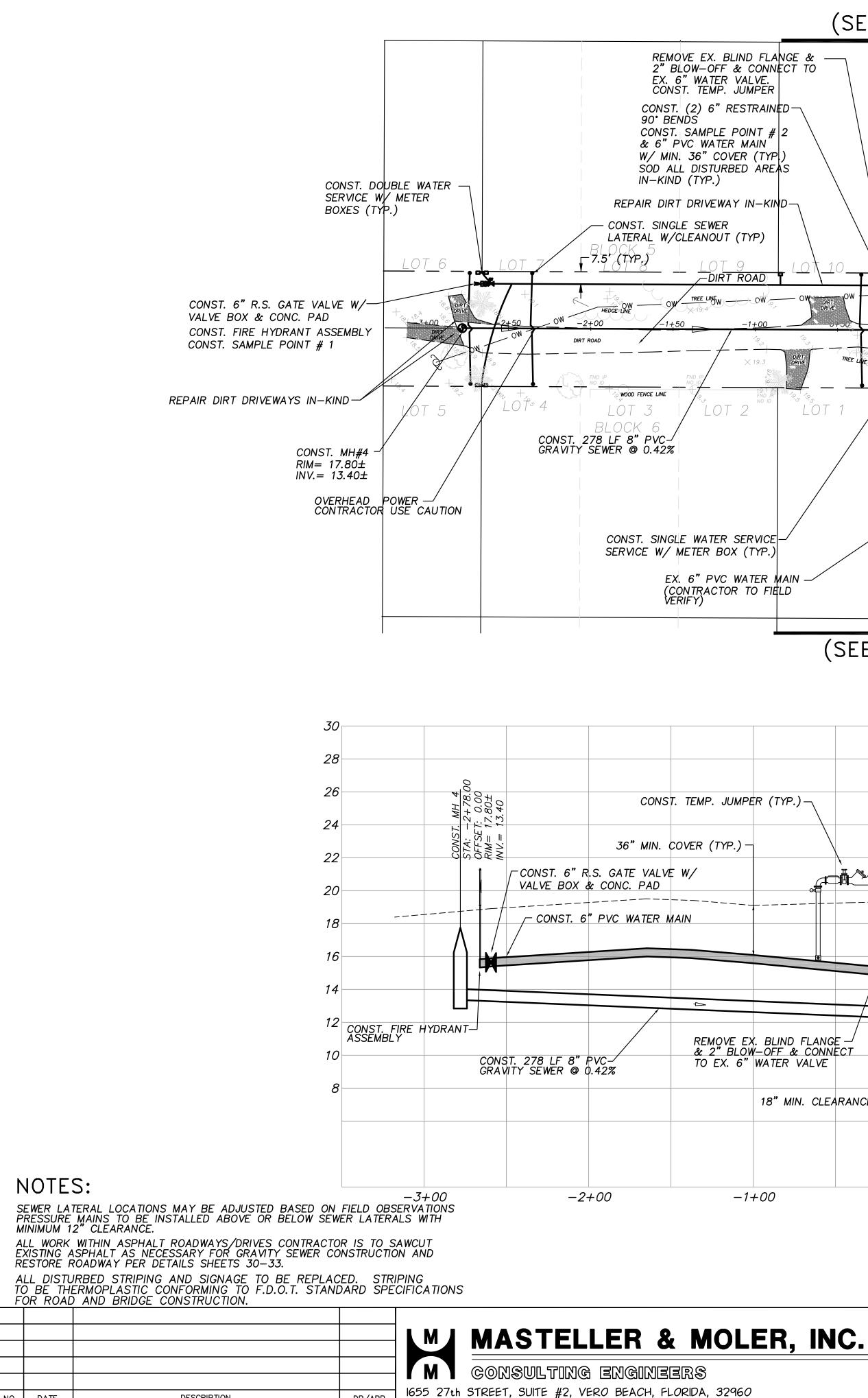
NORTH

INDIAN RIVER COUNTY County water & sewer system

TARY	DESCRIPTION	EXISTING	PROPOSED
IMED HE	BLOCK NUMBER	A	A
IS AND T WHERE	BUILDING OR STRUCTURE		
E THE INS	CENTERLINE	<u> </u>	<u> </u>
Ν	HEAD WALL		
	CURB		
/ATER	CUT AND PATCH		
NE	EASMENT LINE		
HALL E FEET	FENCE (AS INDICATED)	— × — × —	— × —— × —
TER	LOT LINE		
R ۲	LOT NUMBER	2	2
	PHASE LINE		
(PROPERTY LINE		
PLY.	RAILROAD TRACKS		
FULL LENGTH OF	RIGHT-OF-WAY LINE		
	SIGN (POST MOUNTED)	- <u>o</u> -	- 0 -
al	TRAFFIC FLOW ARROW		
onents.	ASPHALT DRIVE	AD	
	GRAVEL DRIVE	GD	
CTION OF TREATMENT OR SET FORTH IN	CONCRETE DRIVE	CD	
RINE MEASUREMENTS	EDGE OF PAVEMENT		
HORIZED RUCTING OR ALTERING	MAILBOX/NEWSPAPER BOX		
ALL BE PERFORMED OF ENVIRONMENTAL	TREE	6	
VITIES, DEP-SOP-001/01,	BENCH MARK	•	•
RM ANALYSES REQUIRED IF THE DEPARTMENT OF	CONCRETE FLUME		₩
ORM BACTERIOLOGICAL AN APPROPRIATE METHOD	CONCRETE MITER END	=====	
	CONTOURS	- -20 ~	
ILITIES OR MAINS TO NO /O SAMPLES - EACH TAKEN		 	<u>20</u>
I THE OTHER SAMPLE(S) -			
HE APPLICABLE AWWA PLES SHALL BE ANALYZED		F.F.=20.00	
L COLIFORM.		_	r.r.=∠U.UU
R LITER OF TOTAL MPLE SHOWS THE	INLET	0	
E REDISINFECTED AS		۲	
SAMPLED IN ACCORDANCE T EACH SAMPLING	SOIL BORING LOCATION AND NUMBER	-⊕ ₂	+ ₂
ACCEPTABLE IF THE	SPOT ELEVATION	<i>with</i>	12.40
RTMENT RECEIVED THE	STORM DRAIN PIPE	D	
	STORM MANHOLE	@	0
OR REHABILITATION THAT	STRUCTURE NUMBER	S-1	S-1
TURNED TO OPERATION DEFORE COMPLETION OF	SWALE		<u> </u>
CUSTOMERS ARE	BASIN DIVIDE		
R" NOTICE SHALL BE RECOMMENDED IN THE	SILT FENCE		xxx
ECAUTIONARY BOIL IOLOGICAL EVALUATION	CLEAN OUT		•
SUBSECTION (2) ABOVE	UNDERDRAIN		
DLOGICAL SAMPLE SHOWS ALL TELEPHONE, AND	DITCH BLOCK		\bigcirc
T OF ENVIRONMENTAL	PLUG, BLOW-OFF & TERMINAL	to	
H DEPARTMENT (ACHD) T BUSINESS DAY.	RESTRAINTS REDUCER	+0 	
SHALL BE SUBMITTED TO E NEXT MONTHLY			_
2)(B), F.A.C., OR IF NO	FIRE HYDRANT W/ GATE VALVE VALVE BOX , HYDRANT TEE &	X X	¥
-555.350(12)(B), F.A.C., HE BACTERIOLOGICAL	RESTRAINTS	++ -	
	GATE VALVE & BOX	Ю	
	WATERMAIN W/ 3'	WM(6"ø)	 WM (6"ø)
	COVER TYPICAL 1"Ø SERVICE LATERAL W/	P	Ŧ
	METER BOX	I	
	1-1/2"Ø SERVICE LATERAL W/ (2) METER BOXS	┖┯┚	
	(2) METER BOAS		
	RESTRAINED JOINT TEE	1	Ţ
	RESTRAINED BEND	×	_ \
	TELEPHONE JUNCTION BOX	-6-	
	TELEPHONE LINE	T TELE	TELE
	UNDERGROUND ELECTRIC LINE	ELEC	ELEC
	OVERHEAD WIRE	ОН	–он
	LIGHT POLE	\$	‡
	WATER WELL	Ŵ	~
	POWER POLE	-	_
	GUY WIRE	ىم س	
	TV CABLE BOX		
		GAS	GAS
	UNDERGROUND CABLE TV	CATV	CATV
	BIDDING PURPO		

						DRAWN	SCG
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2				12/0	7172020	SHEET	2 OF 37
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	-						





REVISIONS	•
REVISIUNS	٤

DESCRIPTION

DATE

NO.

DR/APP

(772) 567-5300 / FAX (772) 794-1106 CERTIFICATE OF AUTHORIZATION NUMBER 4204

LOW-OFF & CONNECT	CONST. 350 LF GRAVITY SEWEF 0 1+00	R @ 0.45% 18" MIN. CLEA	
E EX. BLIND FLANGE - LOW-OFF & CONNECT 6" WATER VALVE 18" MIN. CLEARANCE -	GRAVITY SEWEI		
/──┤♥┣━	CONST 350 LE	8" PVC- UNDER PROP.	VC SEWER FM 6" PVC WATER MAIN
		REMOVE EX. BLIND FLANGE & 2" BLOW-OFF & CONNECT- TO EX. 6" WATER VALVE	
	EX. 6" PV (CONTRAC VERIFY) 	/C WATER MAIN-	€ - 18" M
		RADE (REFLECTS OLLOWING PROPOSED SEWER)	
MPER (TYP.)	$\begin{array}{c} 0.15 \\ RIM = 18.36 \\ INV = 12.27 (SE) \\ INV = 12.22 (SW) \\ INV = 12.17 (NE) \\ INV = 12.17 (NE) \\ \end{array}$	CONST. FIRE HYDRANT- ASSEMBLY CONST. TEMP. JUMPER-	CONST. MH 10 STA: 3+50.00 OFFSET: 0.00 RIM= 20.09± INV:= 12.01 (SE)
(SEE SHE	['] FLA I	N VIEW LE: 1"=40'	(SEE SHEET
WATER MAIN		CONST. 6" PVC WATER MAIN GRAVITY SEWER MIN. 18" CLI	
SERVICE ((TYP.)	ASPHALT ROAD	90° BENDS DEFLECT 4" PVC SEWER FI BELOW PROP. 6" PVC WAT MIN. 18" CLEARANCE	
	CONST. 8" PVC GRAVITY SEW BELOW EX. 6" PVC WATER MA MIN. 18" CLEARANCE	@ 0.45%	HEDGE LINE OW HEEE LINE HEEE LINE HEEE LINE HEEE LINE
2 LOT 1	EX. 6" PVC WATER MAIN - (CONTRACTOR TO FIELD VERIFY)	LOT 2×146 BLOCK 7 CONST. 350 LF 8" PVC GRAVITY SEWER	LOT 1
X 19.3 DIRT DRIVE TREE LIVE OF		$ \begin{array}{c} 1+30 \\ \hline 2+00 \\ \hline 2+50 \\ \hline 2+50$	
	$ \begin{array}{c c} \hline \\ \hline $		
	$INV. = 12.17 (NE)$ $UTILITY POLE (TYP)$ $OT 6 \qquad \Box OT 7$	W/ MIN. 36" COVER (TYP.) SOD ALL DISTURBED AREAS IN-KIND (TYP.) BLOCK 4	PAIR ASPHALT DADWAY IN-KIND YP.)7 OT/10 ND IP
	- CONST. MH#8 RIM= 18.36± INV.= 12.27 (SE) INV.= 12.22 (SW)	2" BLOW-OFF & CONNECT TO EX. 6" WATER VALVE. CONST. FIRE HYDRANT ASSEMBLY & TEMP. JUMPER CONST. SAMPLE POINT # 3 & 6" PVC WATER MAIN	
	-EX. 6" GATE VALVE	CONTRACTOR TO GRUB AS NECESS REMOVE EX BLIND FLANGE &	
POINT # 2		CONST. 4" PVC S FORCEMAIN W/36	
			FND IP TO DE

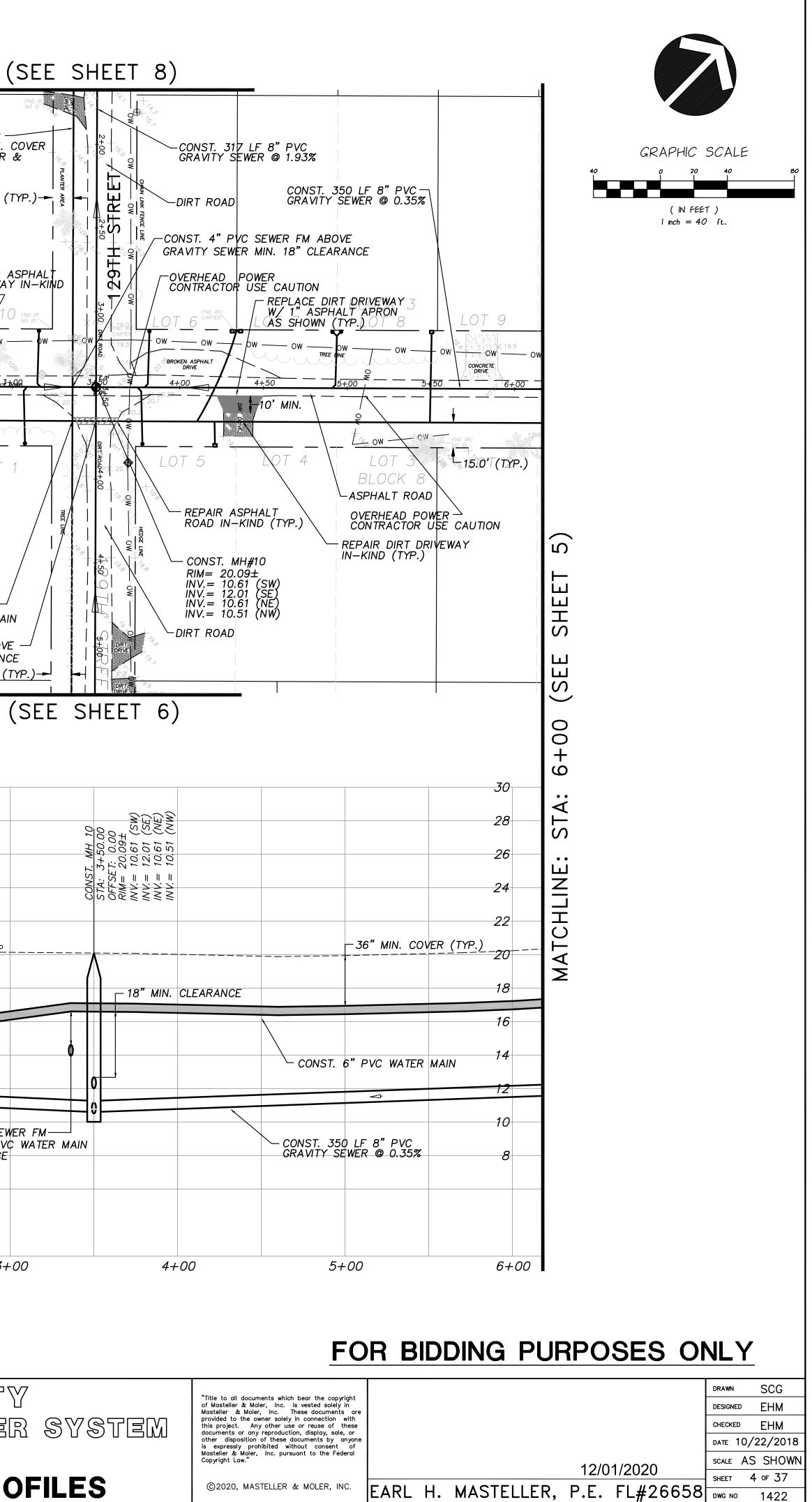
(SEE SHEET 8)

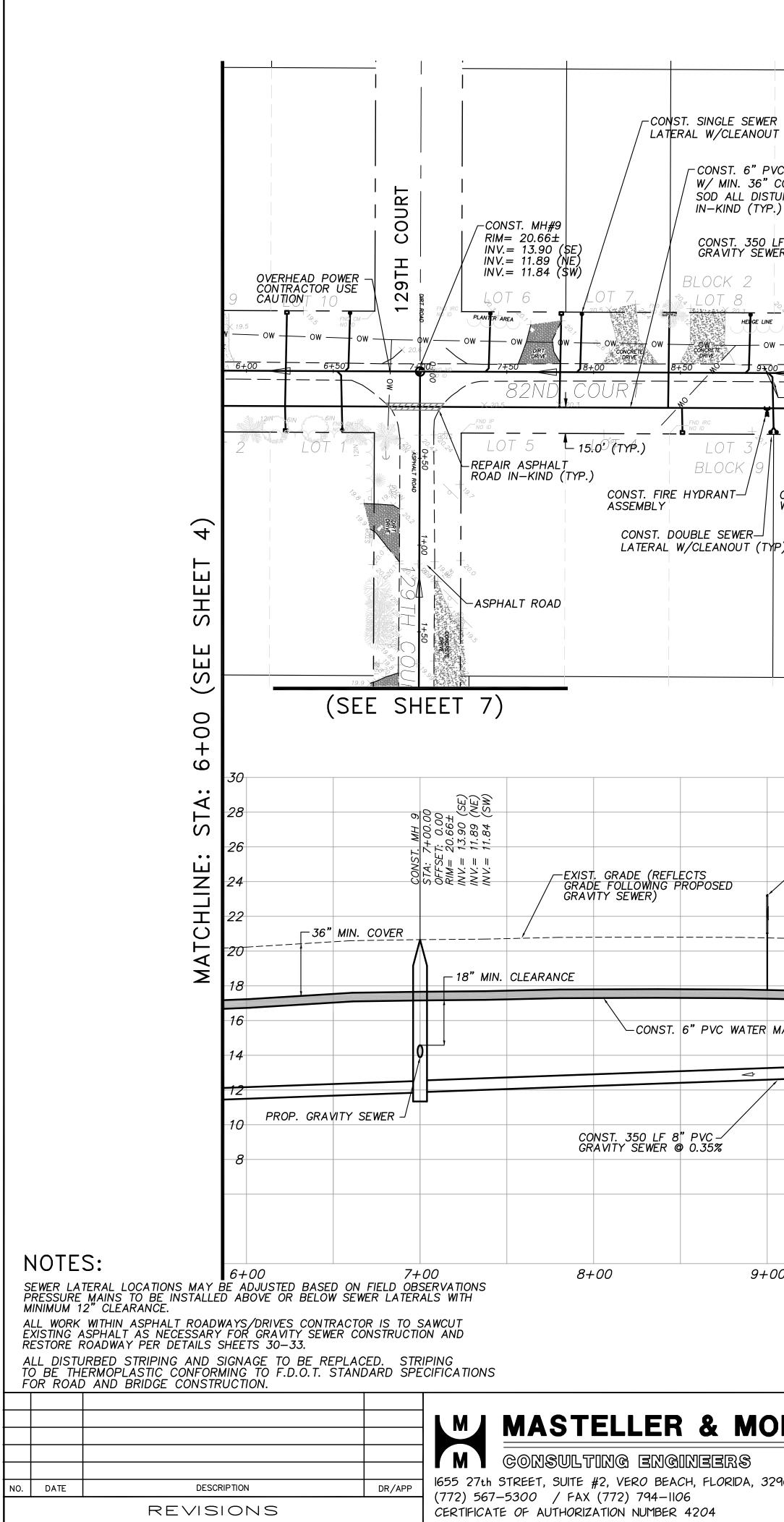
HORIZ. SCALE: 1"=40' VERT. SCALE: 1"=4'

NORTH

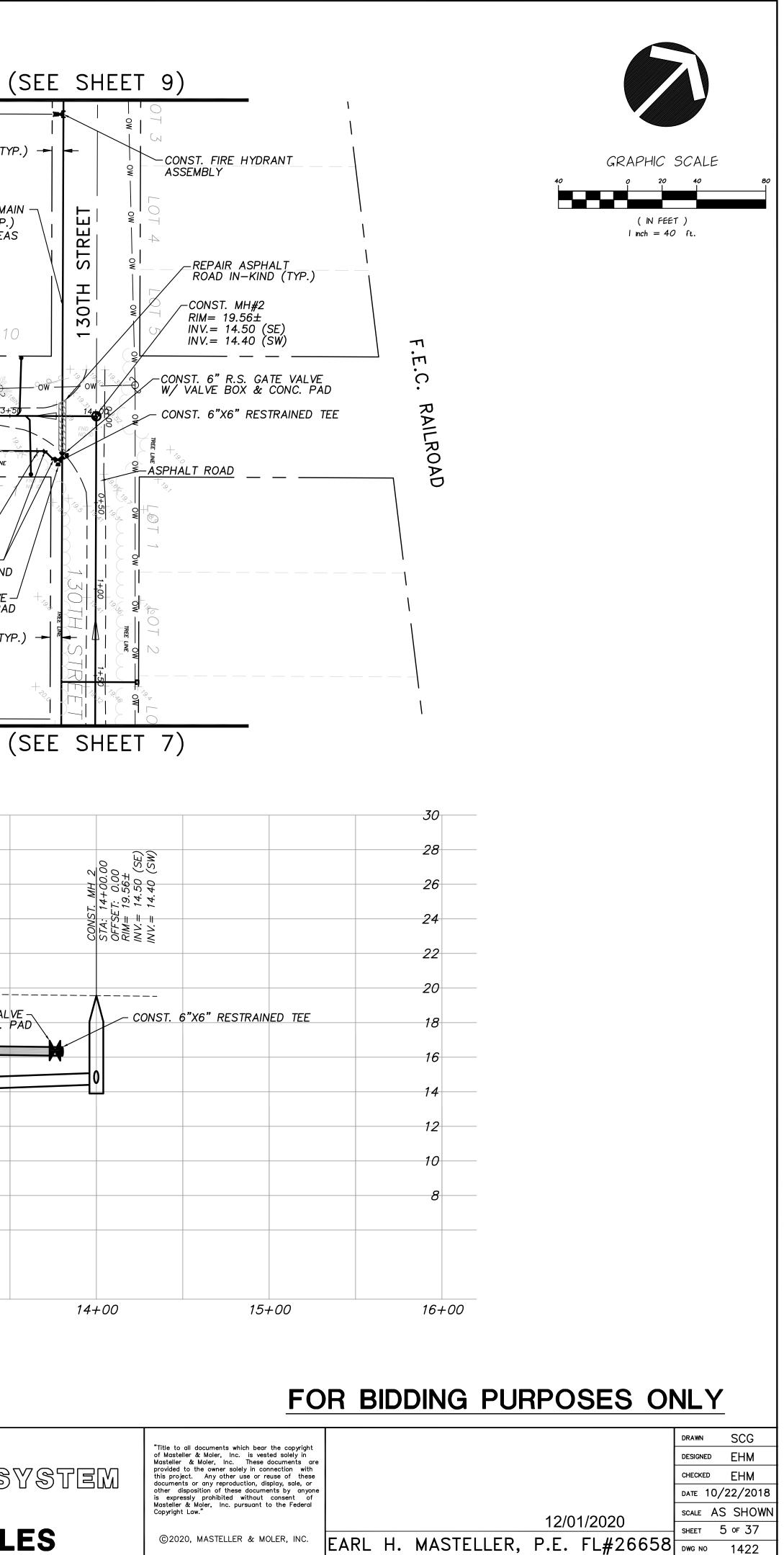
INDIAN RIVER COUNTY COUNTY WATER & SEWER SYSTEM PHASE 2

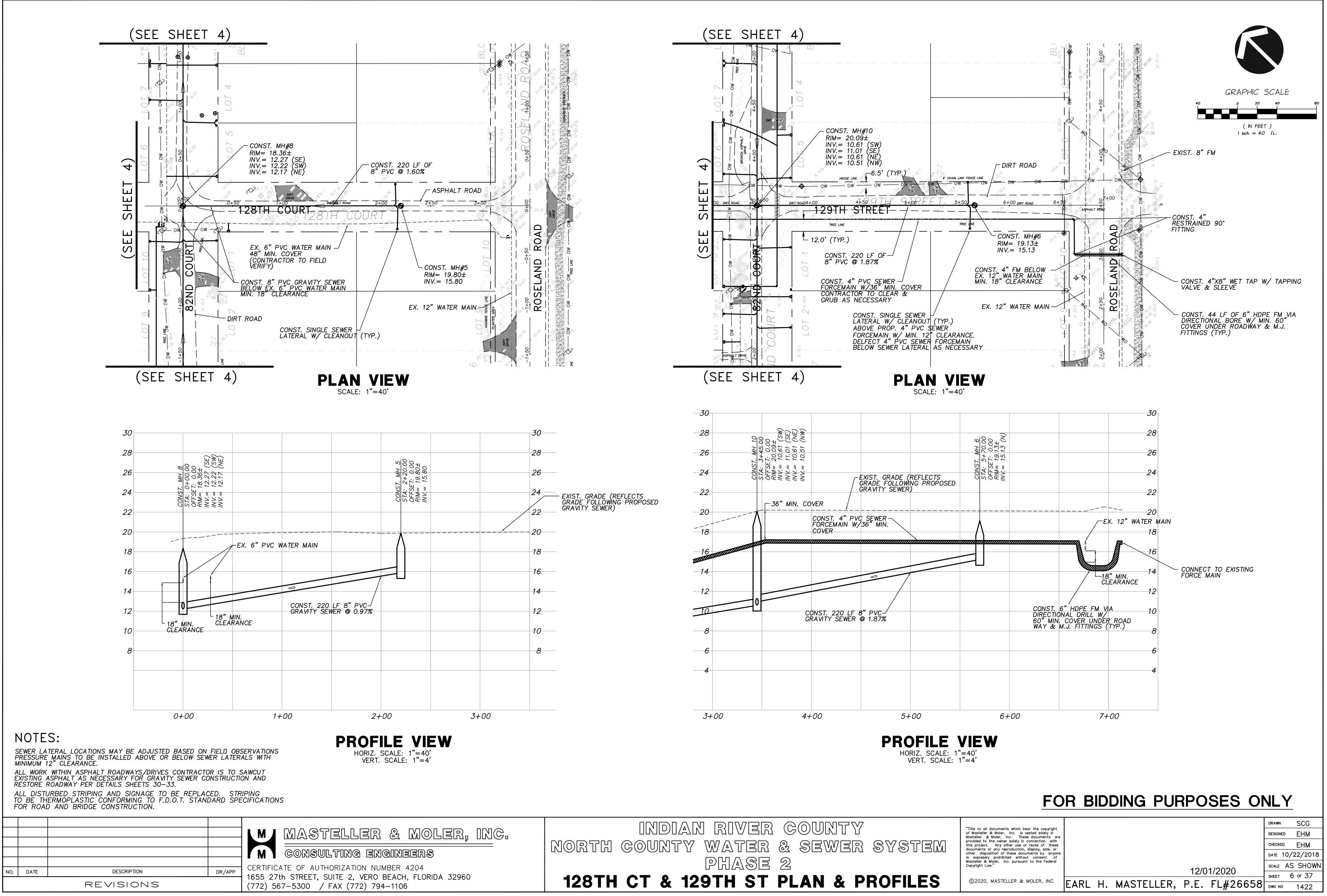
82ND COURT PLAN AND PROFILES



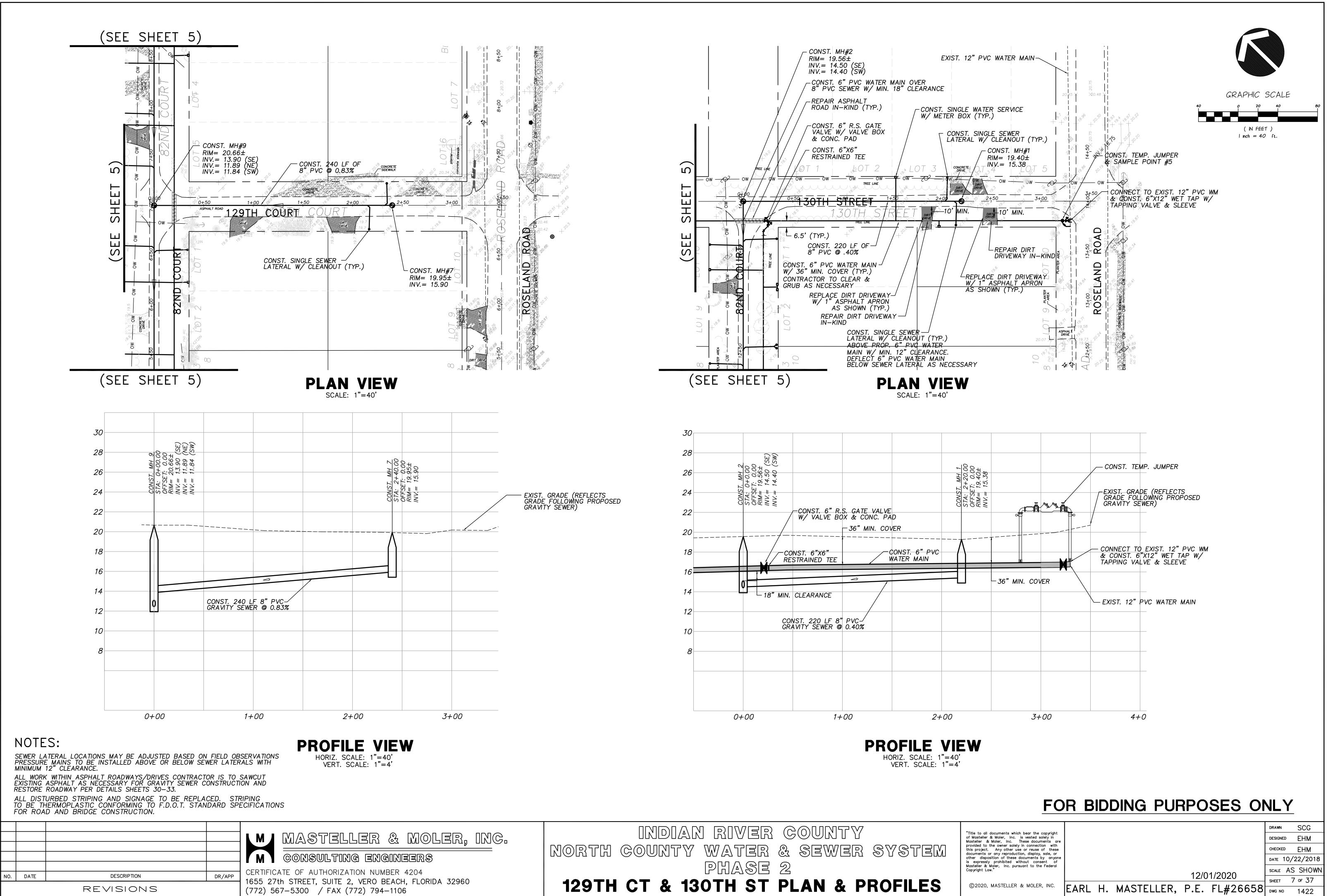


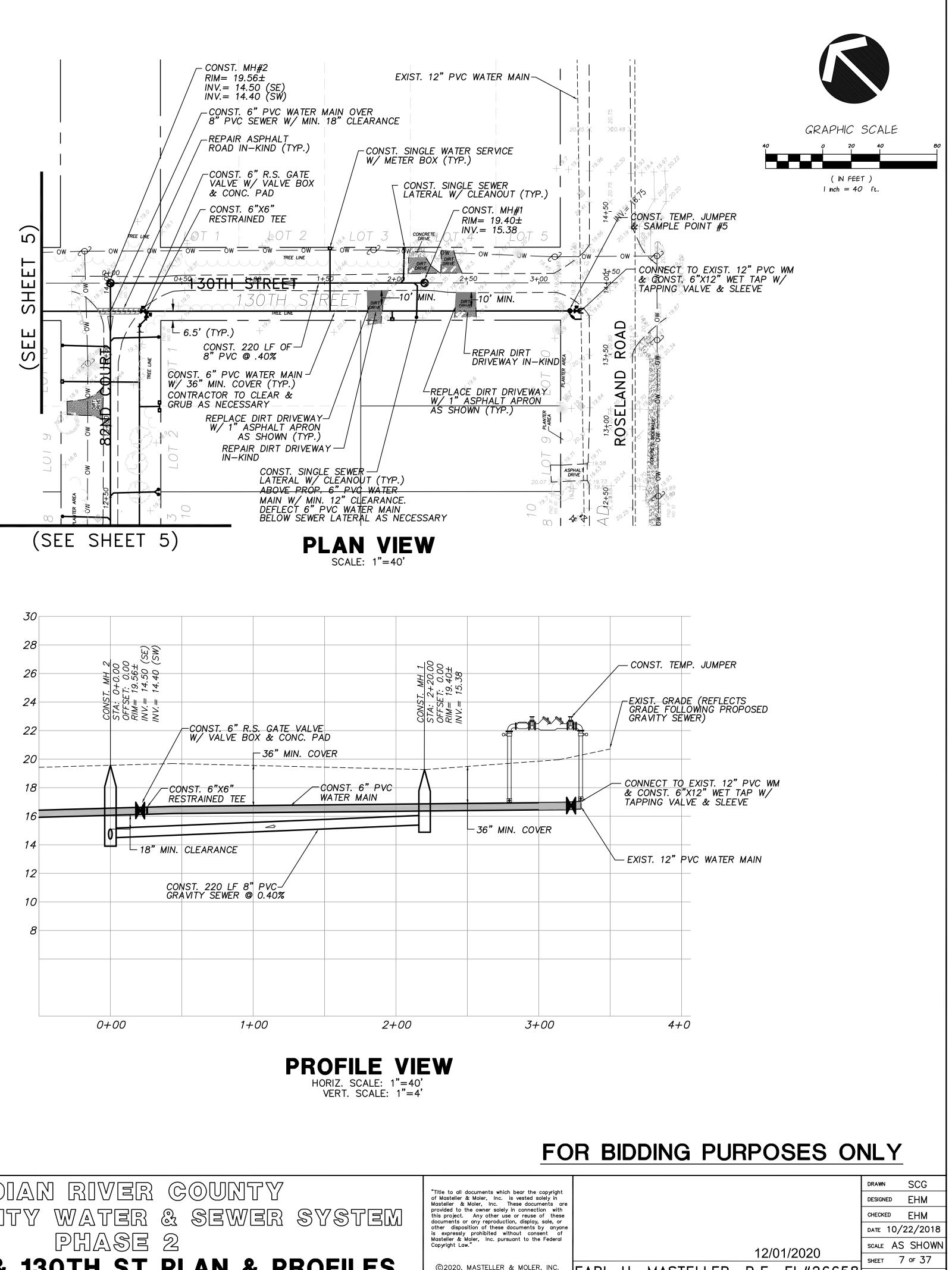
(TYP)					6.5' (TYP.) -	•
C WATER MAIN COVER (TYP.) IRBED AREAS	 			CONST. 6" PVC V W/ MIN. 36" COV SOD ALL DISTURB IN—KIND (TYP.)	ER (TYP.) \setminus	STREET
F 8" PVC R @ 0.35%			SPHALT ROAD	SINGLE WATER SERVICE ER BOX (TYP.)		30TH S
LOT 9 LOT 10		PLANTER AREA				
=			10' MIN. DRT DRIVE	2+50		
-E.O.P CLICE COOL 		T 5 LOT REPAIR DIRT ROAD IN-KIND (TYP.) C DOUBLE WATER SEI STER BOXES (TYP.) REPLACE DIRT DR W/ 1" ASPHALT AS SHOWN REPAIR DIRT D IN-KIND	A LOT 3 BLOCK 10 RVICE - APRON (TYP.)	REMOVE & R STOP SIGN CONST. 6	5" 45°	$\frac{1}{130} = \frac{1}{130} = \frac{1}{130}$
			VIEW		(SEE	SH
	3 		1"=40'			
CONST. FIRE HYDRANT ASSEMBLY	CONST. MH STA: 10+50 OFFSET: 0.0 RIM= 20.61 INV:= 13.17 INV:= 13.12					CONST. MH 2 STA: 14+00.00
CONST. 6" R.S. GATE VALVE W/ VALVE BOX & CONC. PA	D			OVER CONST. 6" R.S. G W/ VALVE BOX &	 ATE VALVE- CONC. PAD	
IAIN						
			CONST. 350 LF 8" F GRAVITY SEWER @ 0	PVC - .35%		
0	00 11-	+00	12+00	13+00		14+0
	F	PROFILE HORIZ. SCALE: VERT. SCALE:	1"=40'			
LER, INC.	NORTH C) RIVER Water			- C
960			PHASE T Plan	2		

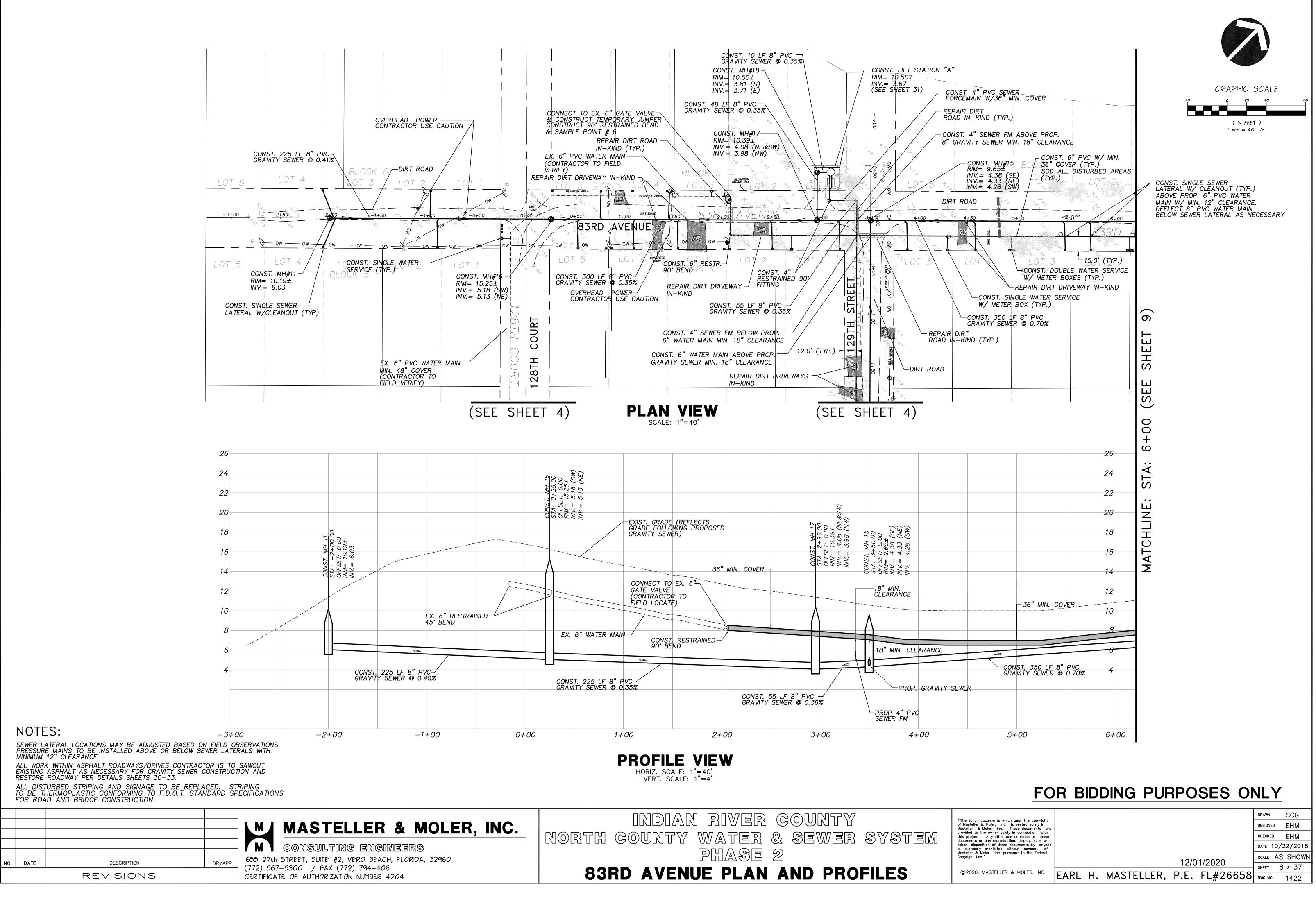




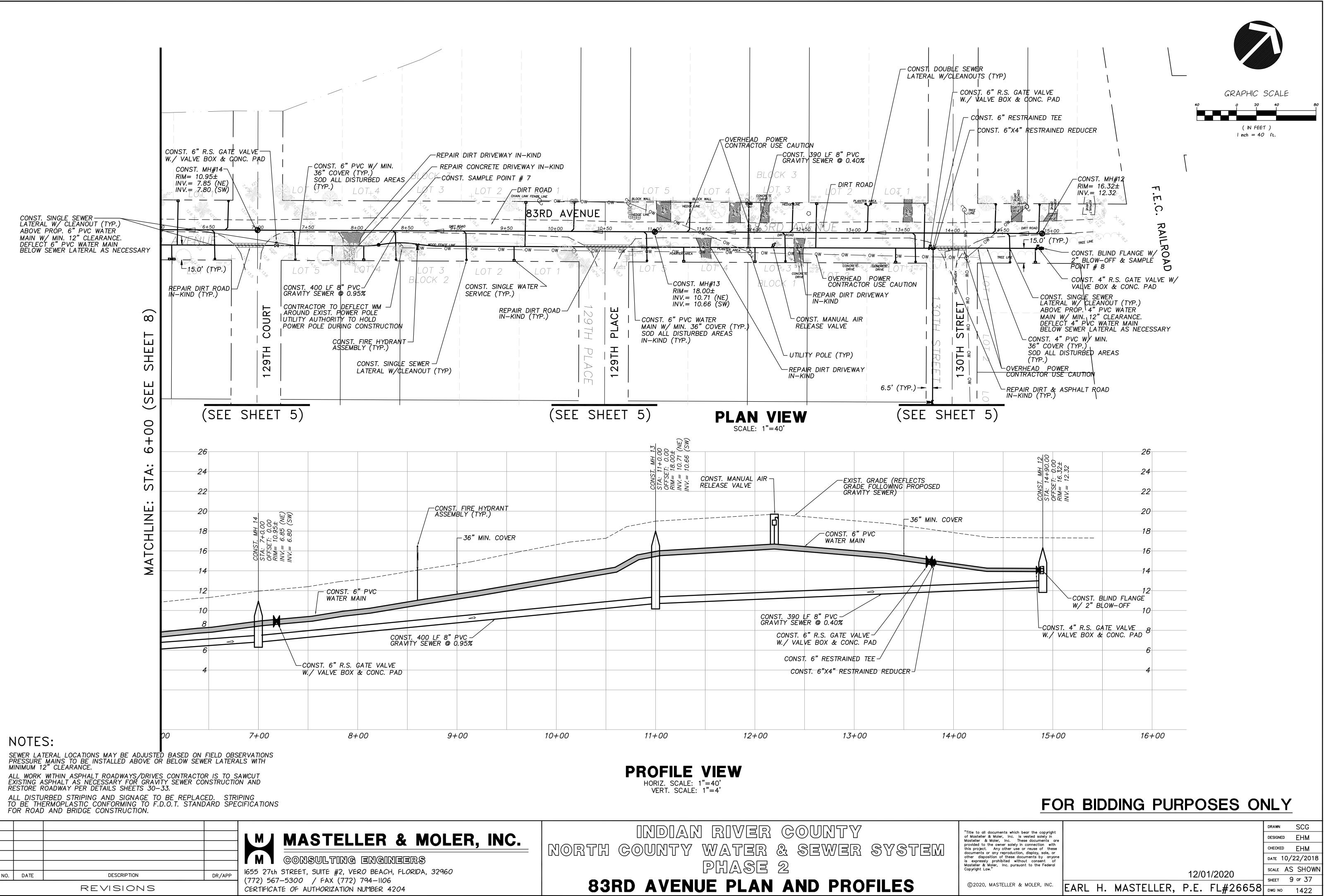
32960	128TH CT & 129TH ST PLAN & PROFILES
	PHASE 2
	NORTH COUNTY WATER & SEWER SYSTEM
er, inc.	INDIAN RIVER COUNTY

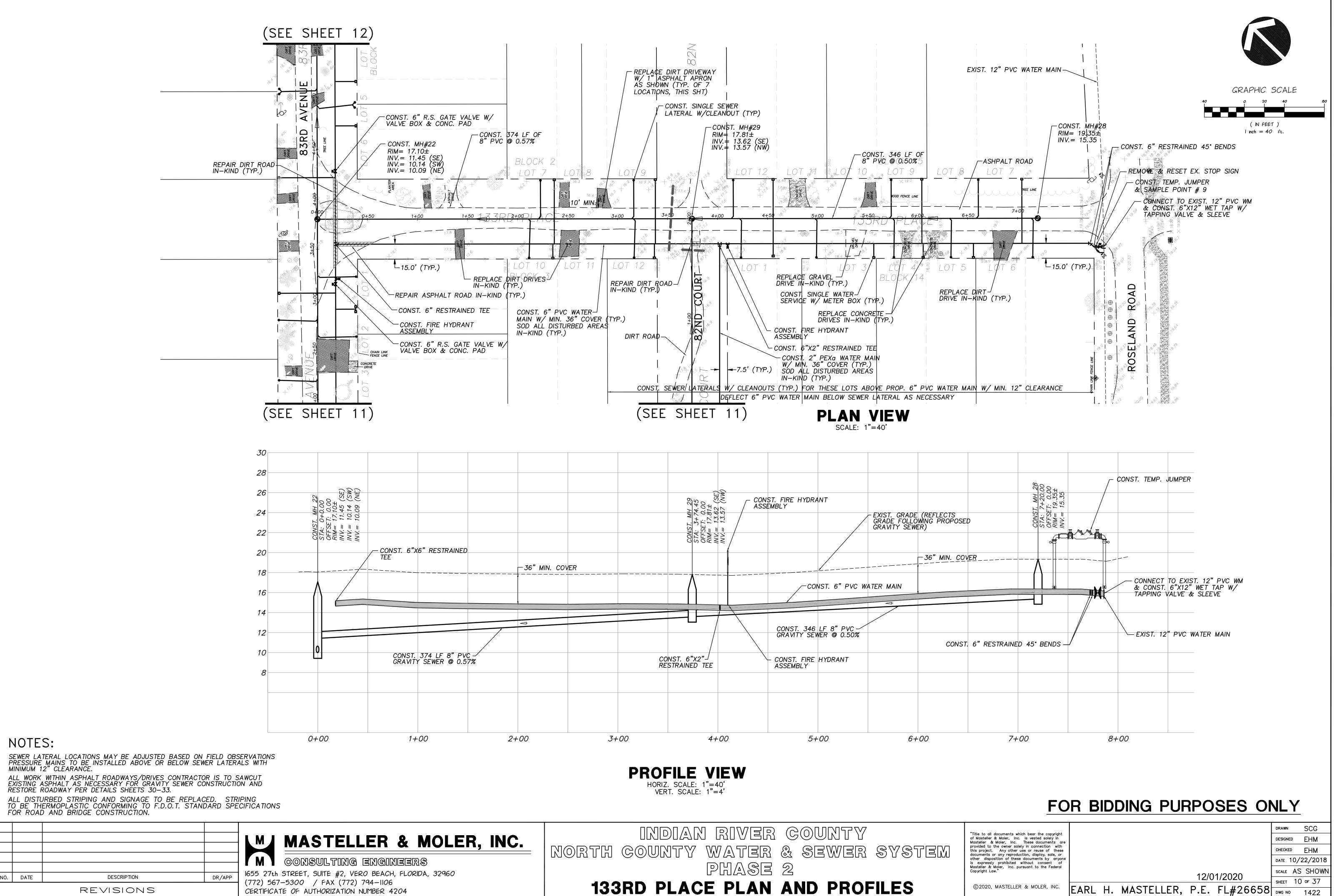




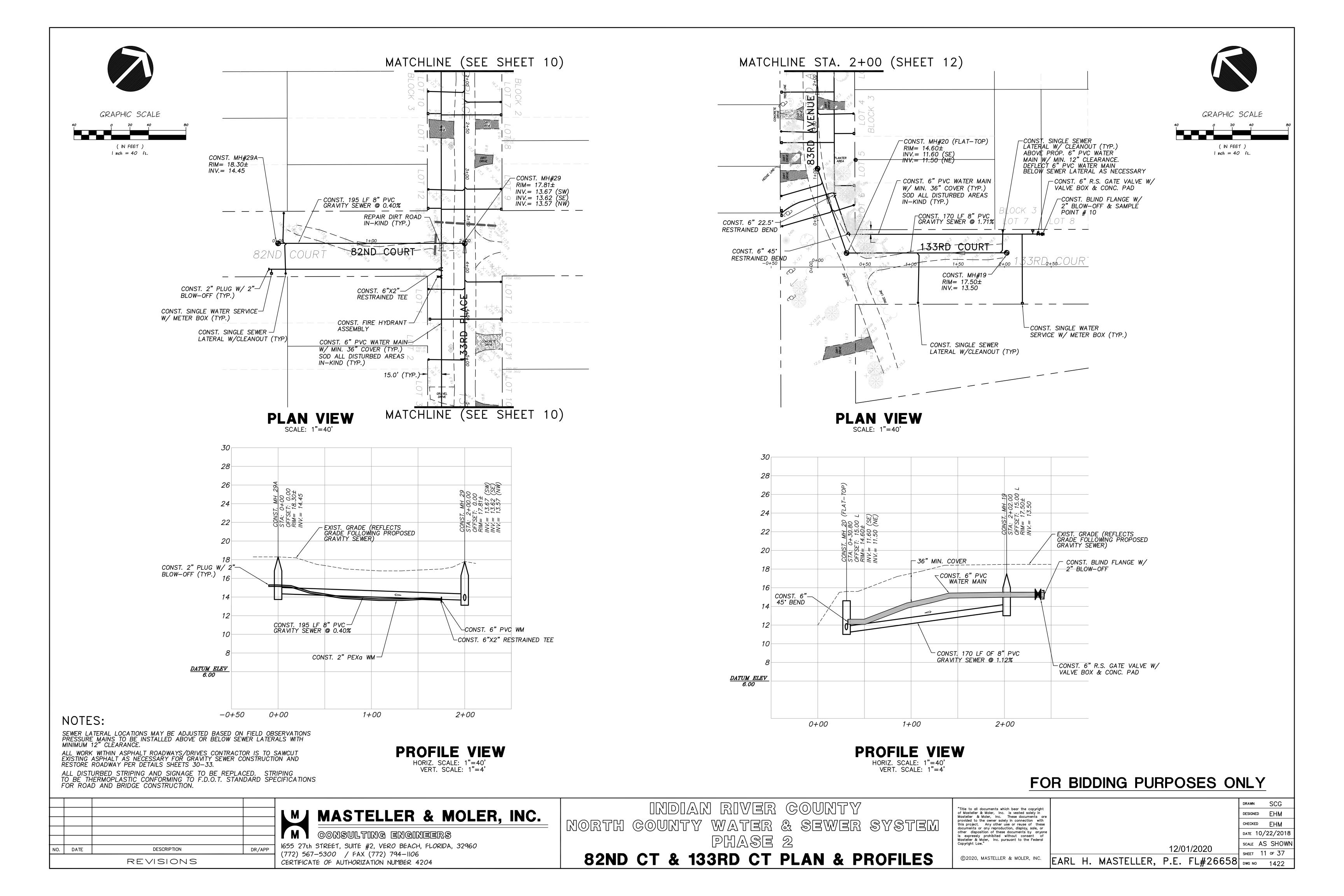


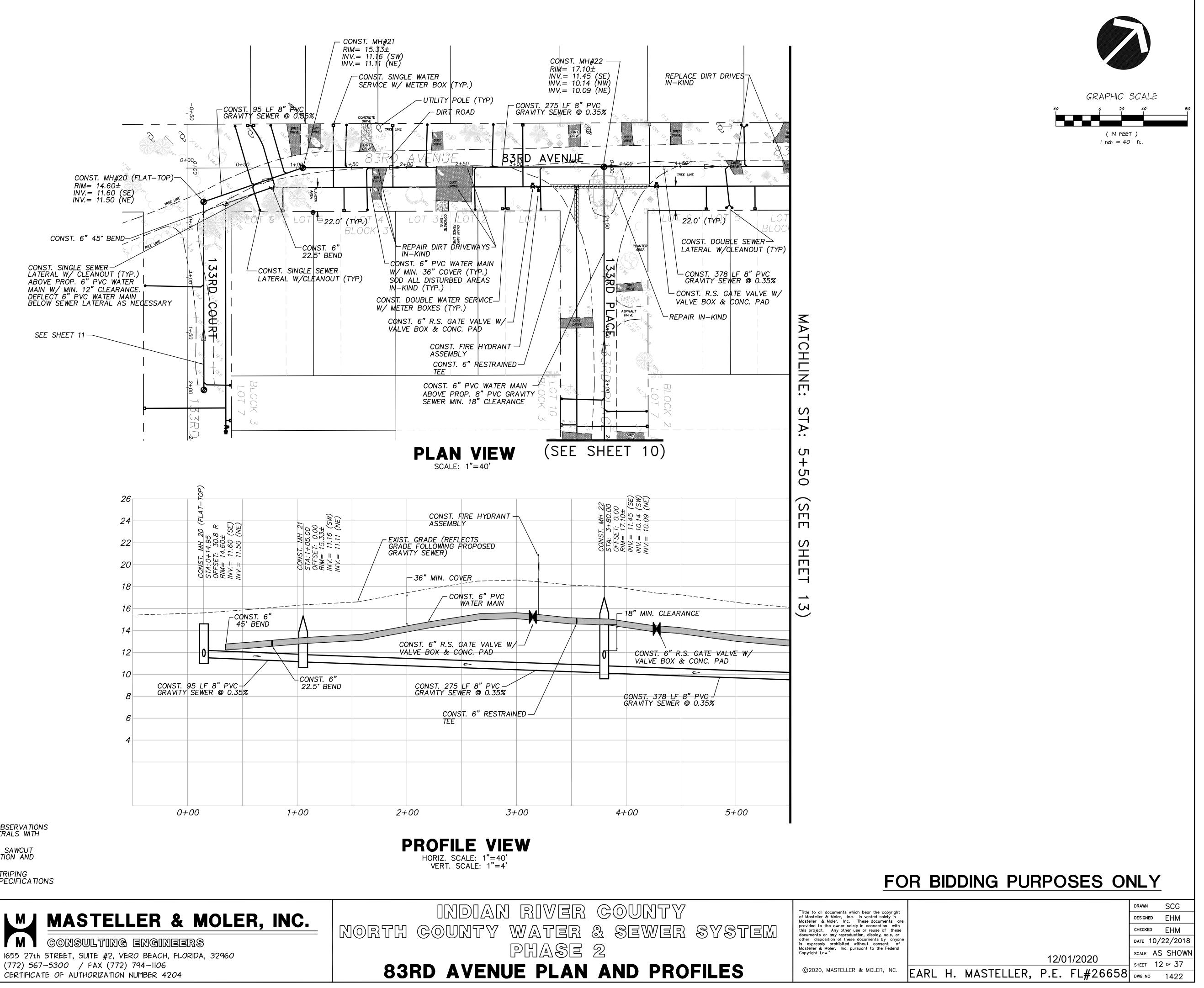
				·	FND IR NO ID TR	
(SEE SHEE	T 4)	PLAN SCALE: 1		(SEE SH	IEET 4)
	CONST. MH 16 STA: 0+25.00 OFFSET: 0.00 RIM= 15.25± INV:= 5.13 (NE) INV:= 5.13 (NE)	EXIST. GRADE (F	REFLECTS		20 ± (NW) (NW)	
		CONNECT TO EX	36" MIN. C	OVER	ET: 0. ET: 0. 10.39 = 4.08 = 3.98 MH 15	U STA: 3+50.00 OFFSET: 0.00 RIM= 9.65± INV:= 4.33 (SE) INV:= 4.33 (NE) INV:= 4.28 (SW)
6" RESTRAINED BEND	EX. 6" WATER MA	GATE VALVE (CONTRACTOR T FIELD LOCATE)	ESTRAINED			CLEARANCE
	CONST. 225 LF 8" GRAVITY SEWER @	PVC- 0.35%	CC GF	ONST. 55 LF 8" PVC - RAVITY SEWER @ 0.36	~ 0	PROP. (PROP 4" PVC SEWER FM
0 0+00		+00 PROFILE HORIZ. SCALE VERT. SCAL	: 1"=40'	3+	-00	4+0
DLER, INC.	NORTH (COUNT	7 WATE Phas	je 2	WER (
	<u> </u>	U AVEI	NUE PL/	AN AND	FNUF	ILEJ

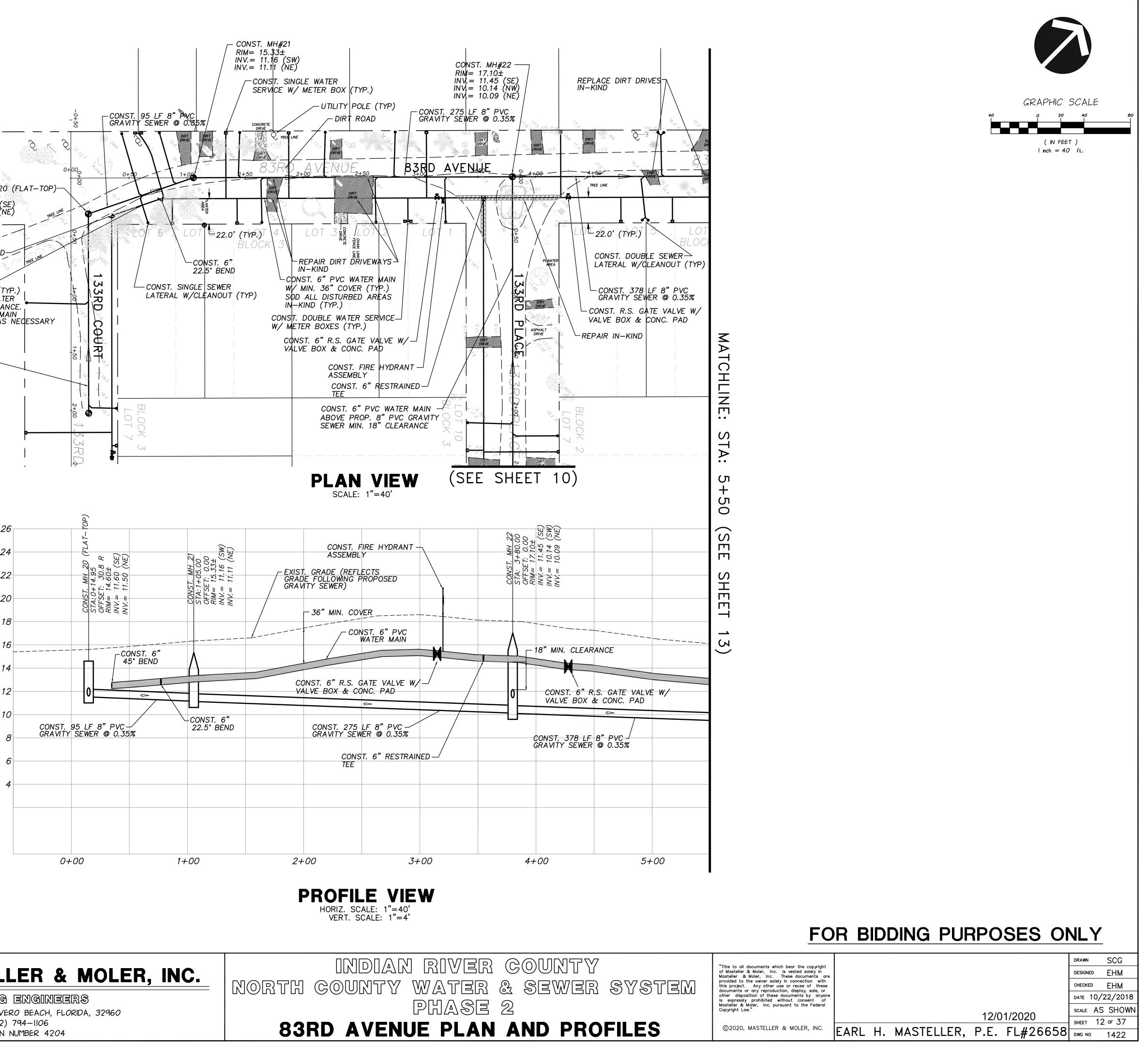




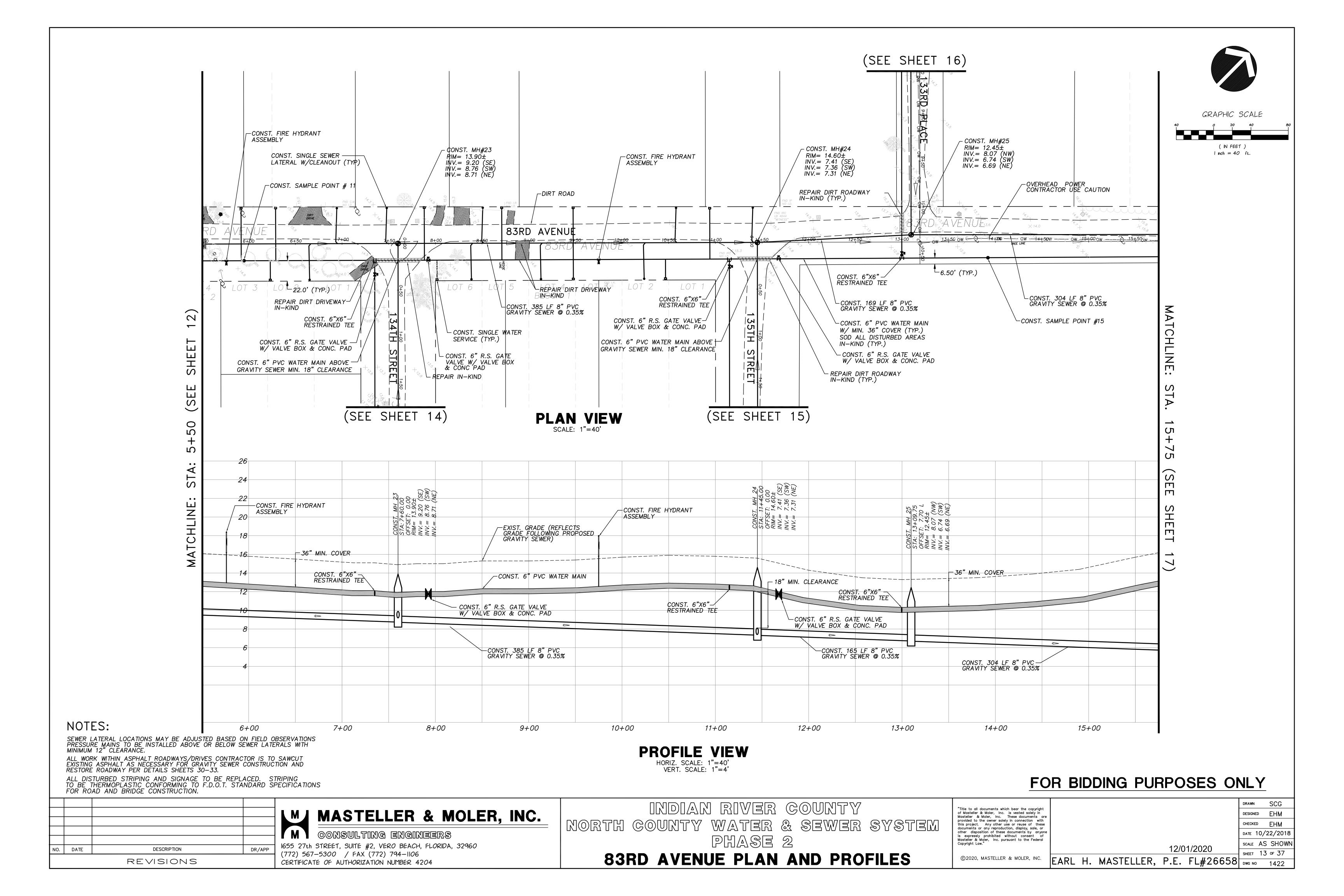
133RD PLACE PLAN AND PROFILES

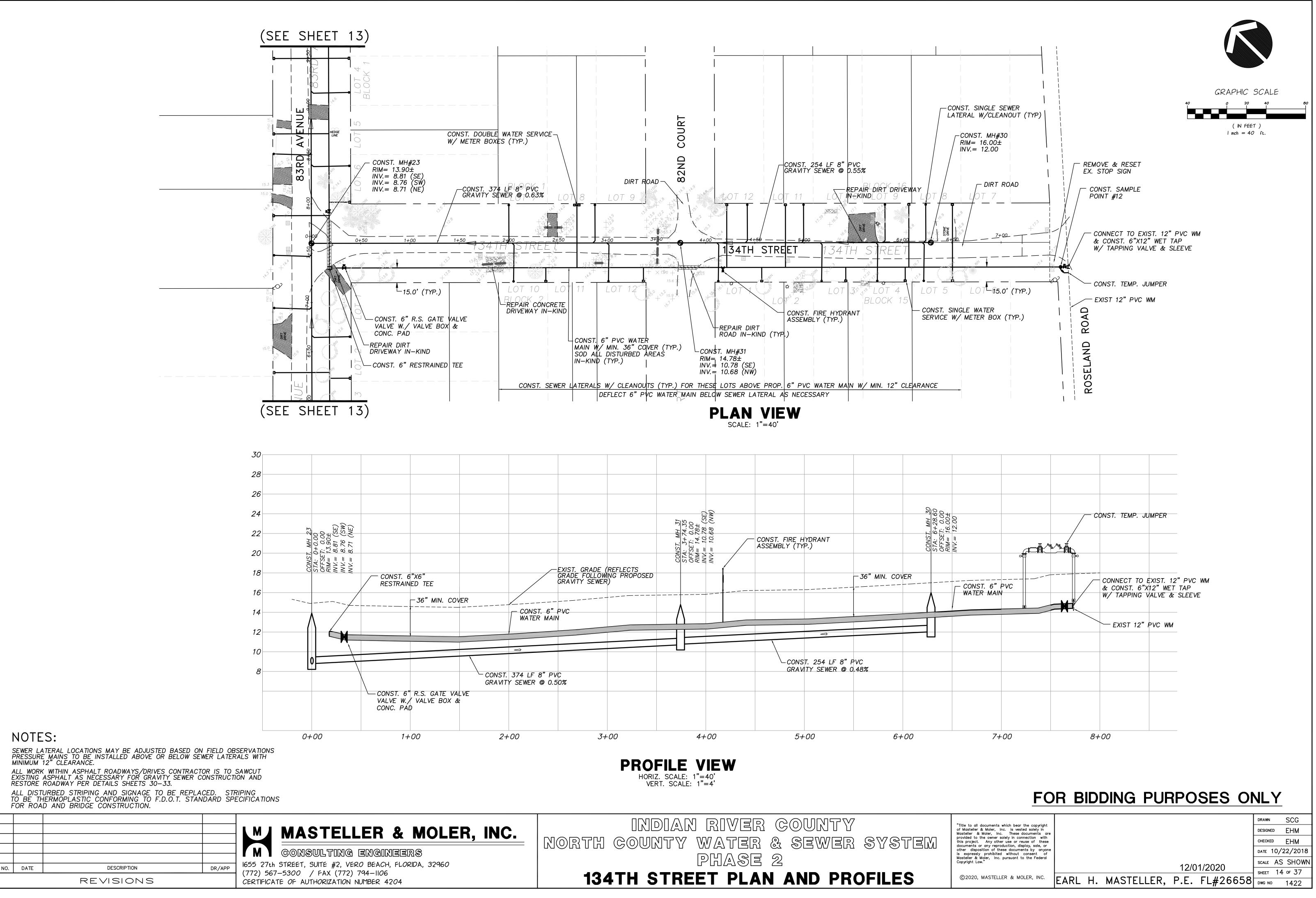




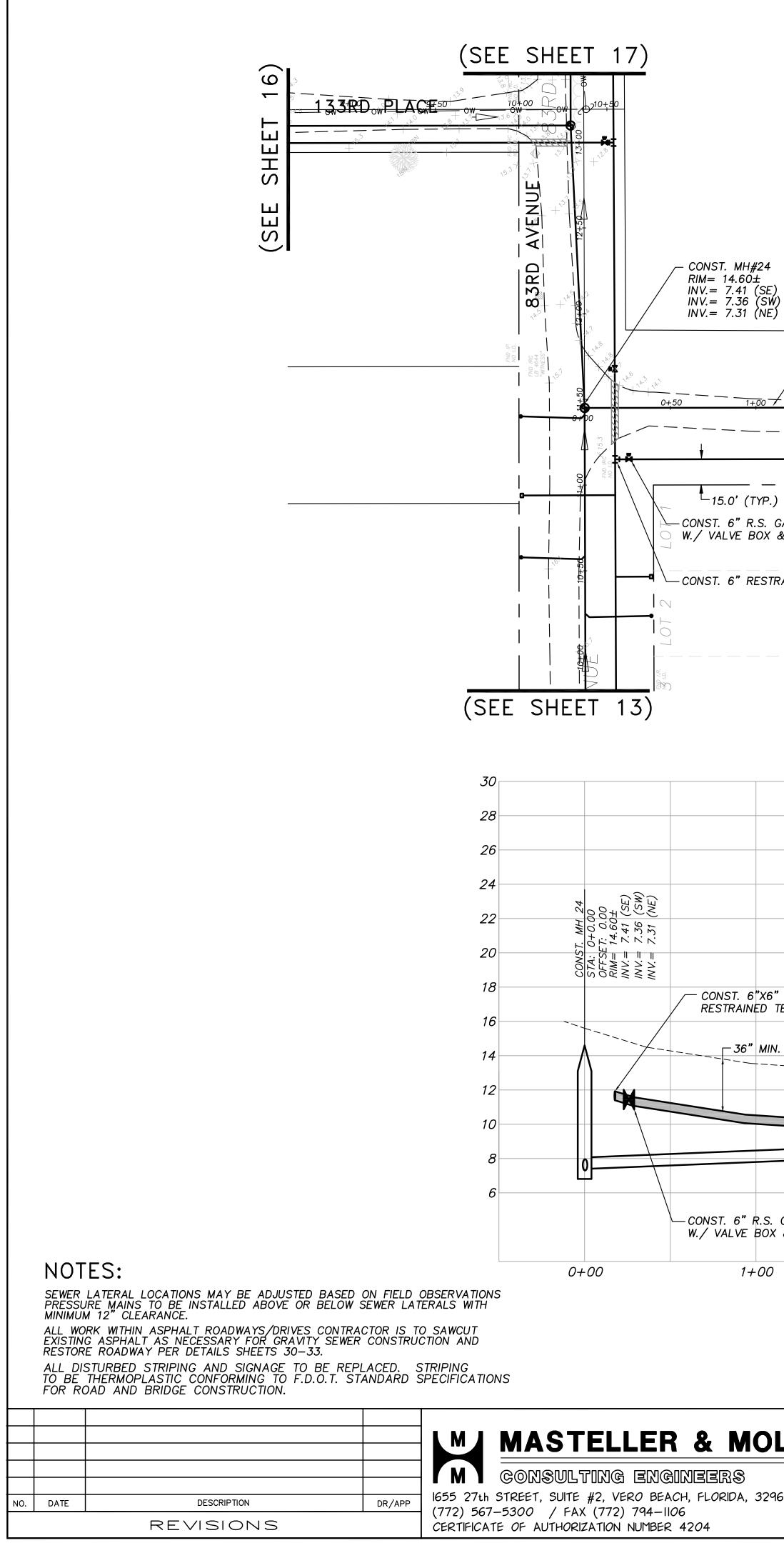


	NOT	ES:		0+00
	PRESSL	LATERAL LOCATIONS MAY BE ADJUSTED BASED JRE MAINS TO BE INSTALLED ABOVE OR BELOW M 12" CLEARANCE.		
	ALL WC EXISTIN RESTOR	ORK WITHIN ASPHALT ROADWAYS/DRIVES CONTRA G ASPHALT AS NECESSARY FOR GRAVITY SEWER RE ROADWAY PER DETAILS SHEETS 30–33.	CTOR IS T CONSTRU	O SAWCUT CTION AND
	ΤΟ ΒΕ	STURBED STRIPING AND SIGNAGE TO BE REP THERMOPLASTIC CONFORMING TO F.D.O.T. ST OAD AND BRIDGE CONSTRUCTION.		STRIPING SPECIFICATIONS
				MASTELLER & MC
				M Consulting Engineers
).	DATE	DESCRIPTION	DR/APP	1655 27th STREET, SUITE #2, VERO BEACH, FLORIDA, 32
		REVISIONS	<u> </u>	(772) 567–5300 / FAX (772) 794–1106 CERTIFICATE OF AUTHORIZATION NUMBER 4204

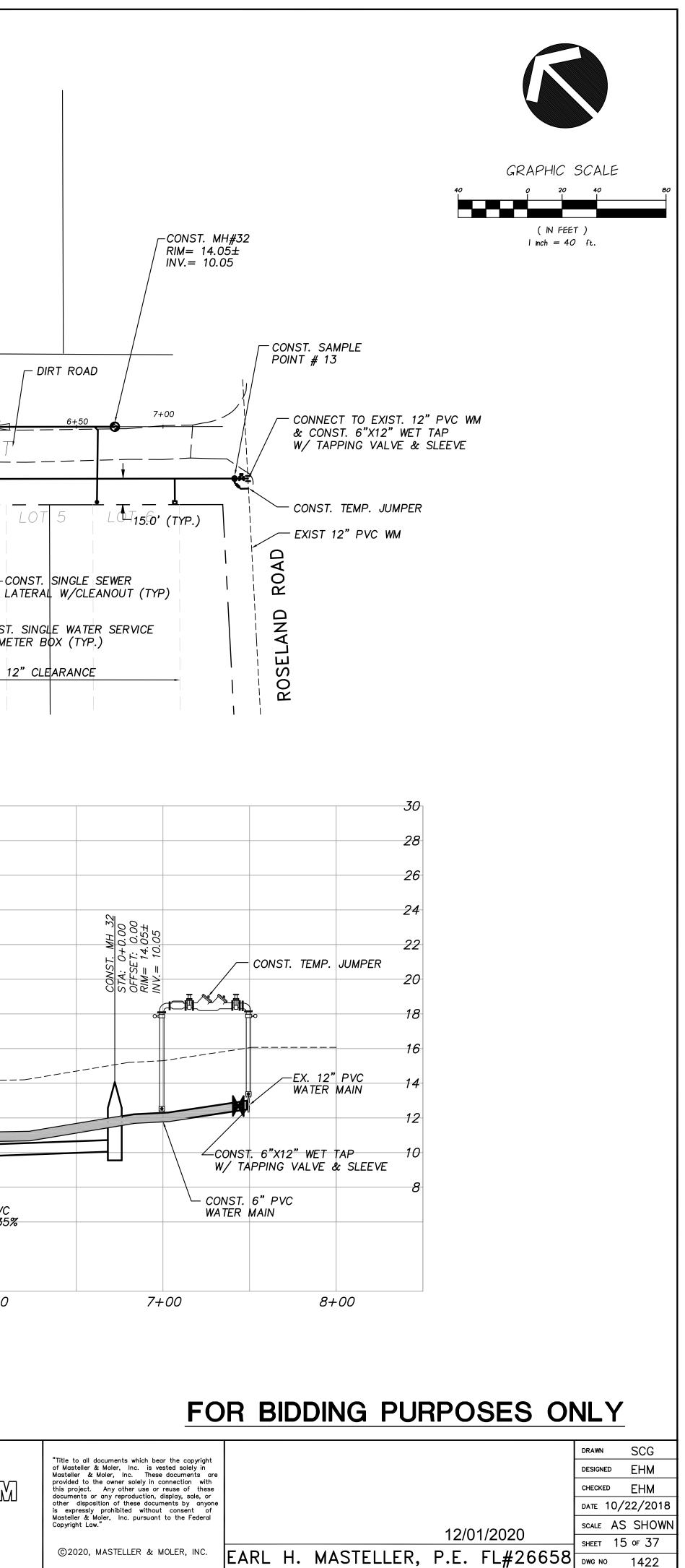


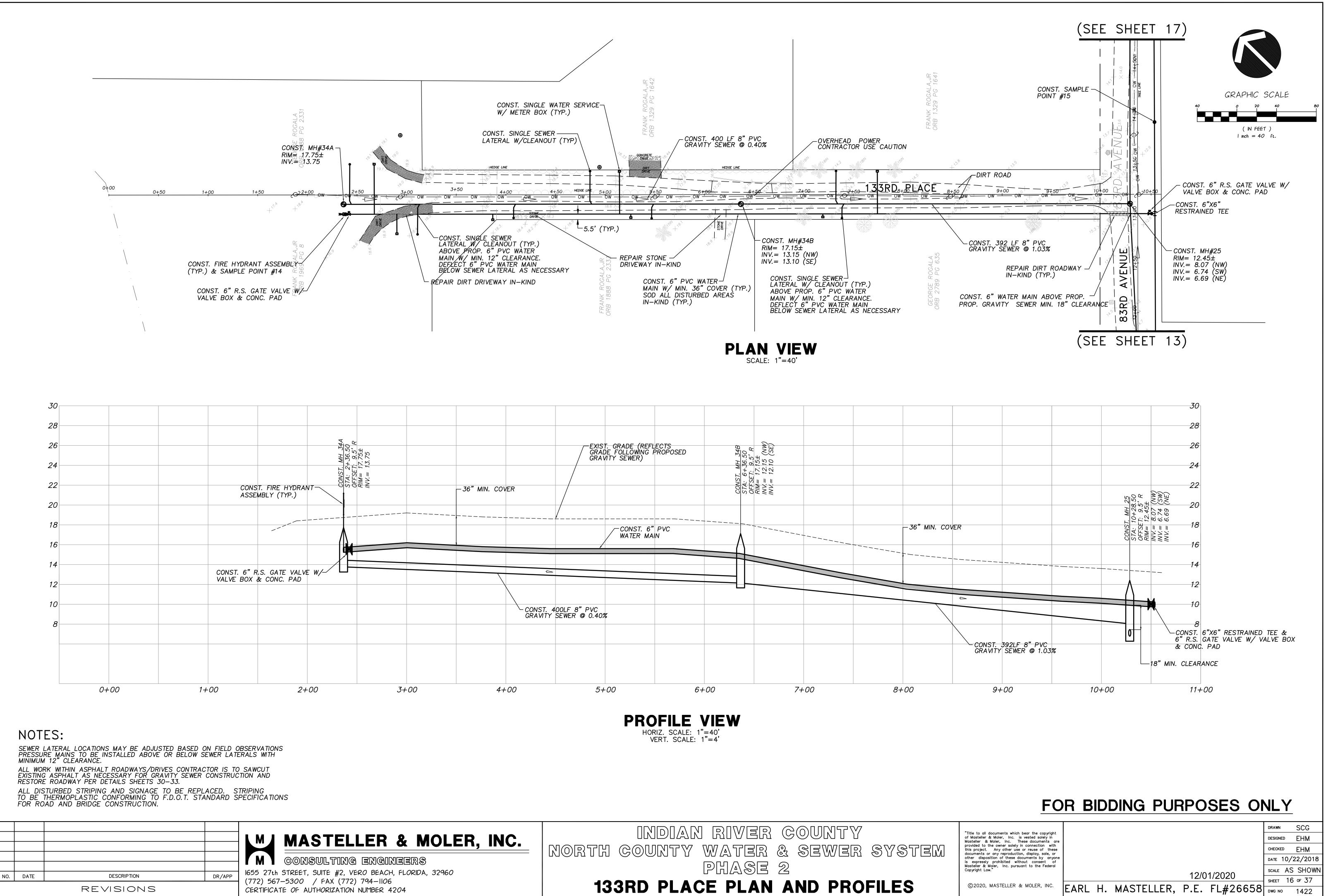


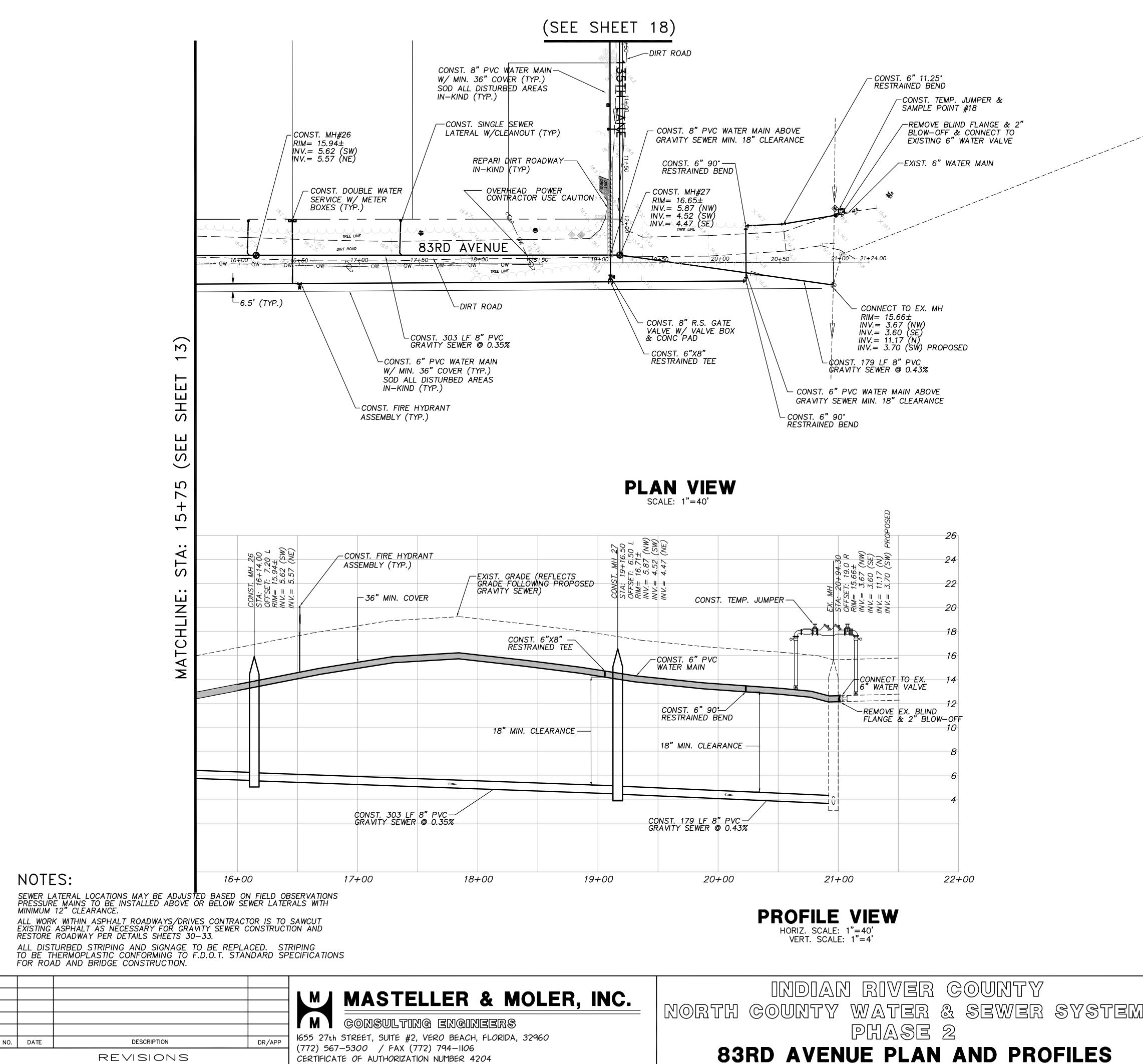


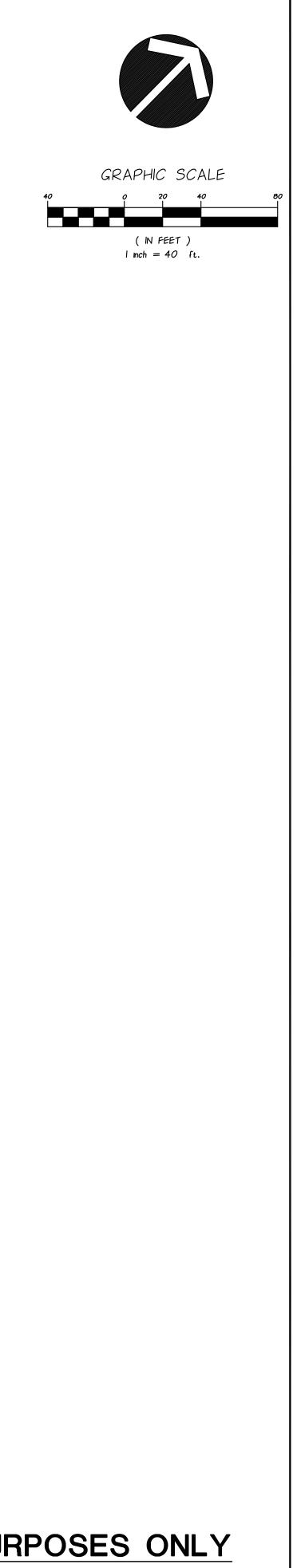


)			RIM= INV.=	. МН#33 (FLAT—TOP) 12.10± 9.00 (SE) 8.90 (NW)	
-CONST. 374 LF 8" F GRAVITY SEWER @ C	PVC D. 40%			-CONST. 298 LF 8" P GRAVITY SEWER @ 0.	VC 35%
<u></u>		+,00 3+50		4+50 5+00 135TH STREET 1	<u>5+50</u> <u>35TH</u> <u>35TH</u> <u>35TH</u>
	LOT 10 LOT 11 BLOCK 1 CONST. SEWER LAT	IN-KIND (TYP., TERALS W/ QLEANOU	36" COVER (TYP.) JRBED AREAS) TS (TYP.) FOR THESE L	OTS ABOVE PROP. 6" PVC	CONST W/ ME
			SCALE: 1"=		
			T-TOP)		
TEE . COVER	EXIST. GRADE (REFLE GRADE FOLLOWING P GRAVITY SEWER)	ECTS ROPOSED	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	CONST. FIRE HYDRA ASSEMBLY (TYP.)	NT
	NST. 6" PVC TER MAIN				
GATE VALVE & CONC. PAD	4 LF 8" PVC EWER @ 0.40%				-CONST. 298 LF 8" PVC GRAVITY SEWER @ 0.35
2+	- <i>00</i> 3-1	+00	4+00	5+00	6+00
	I	PROFILE HORIZ. SCALE: VERT. SCALE	1"=40'		
LER, INC.	NORTH C			COUNTY & Sewer 2	
	135T	H STRE		N AND PR	OFILES







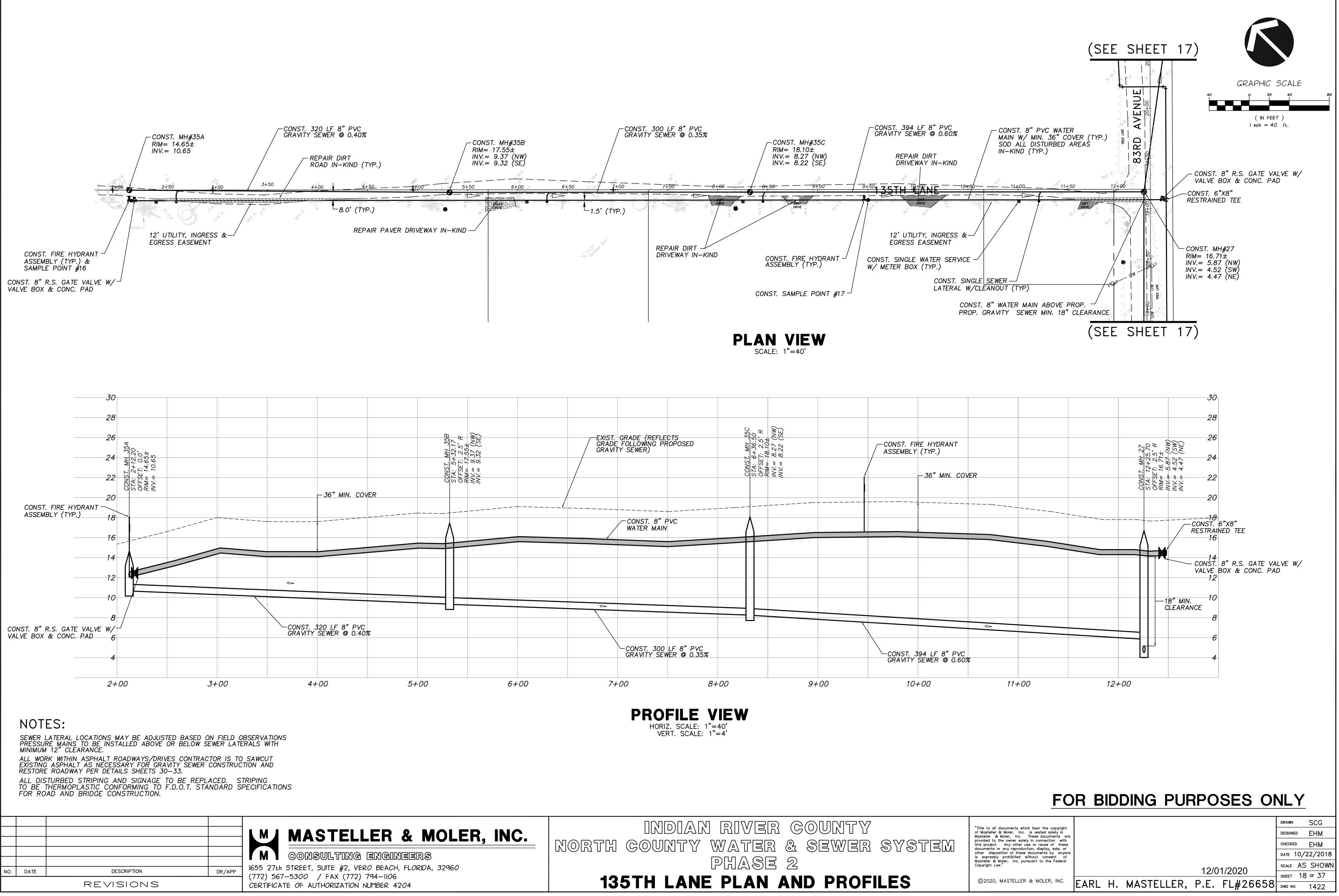


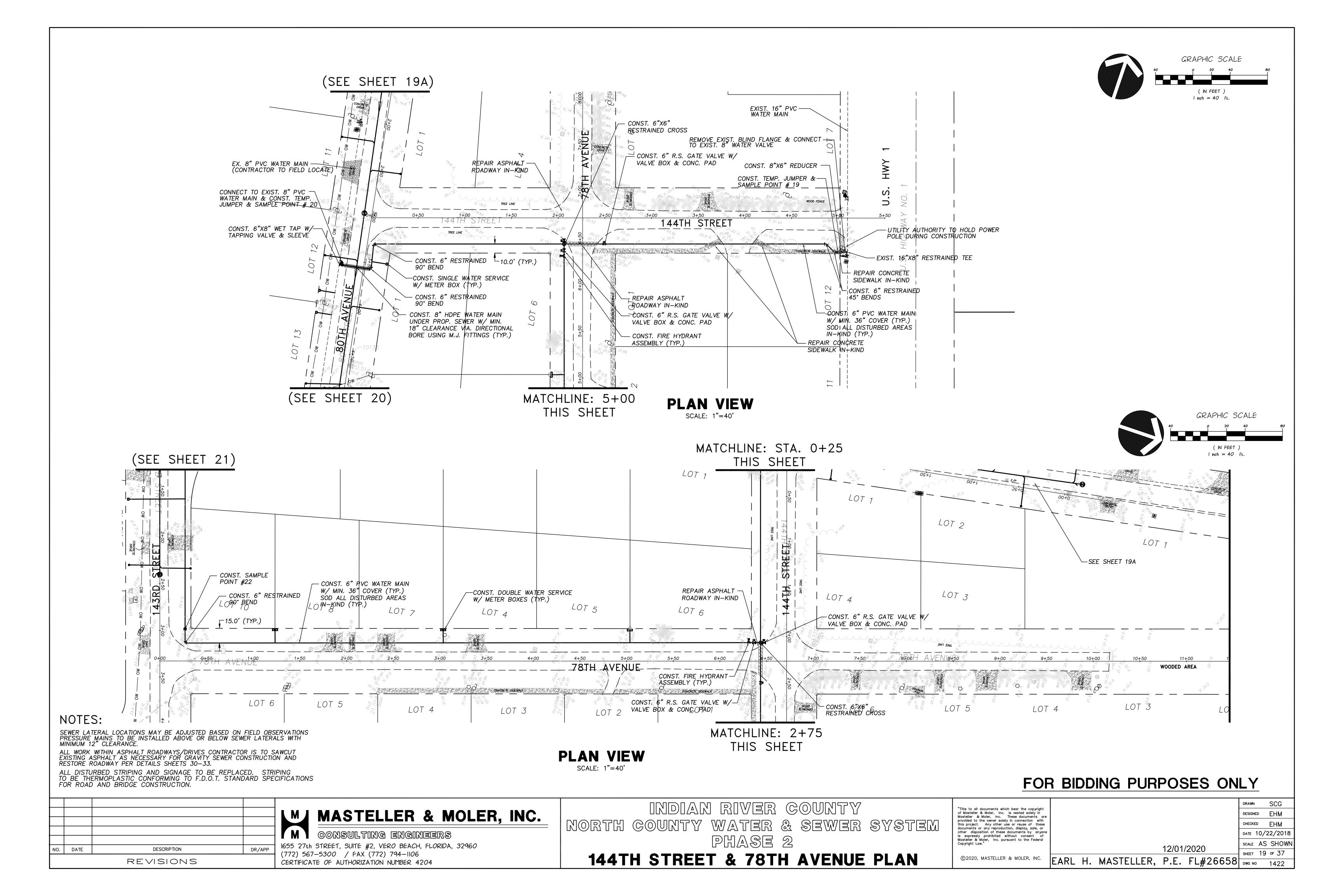
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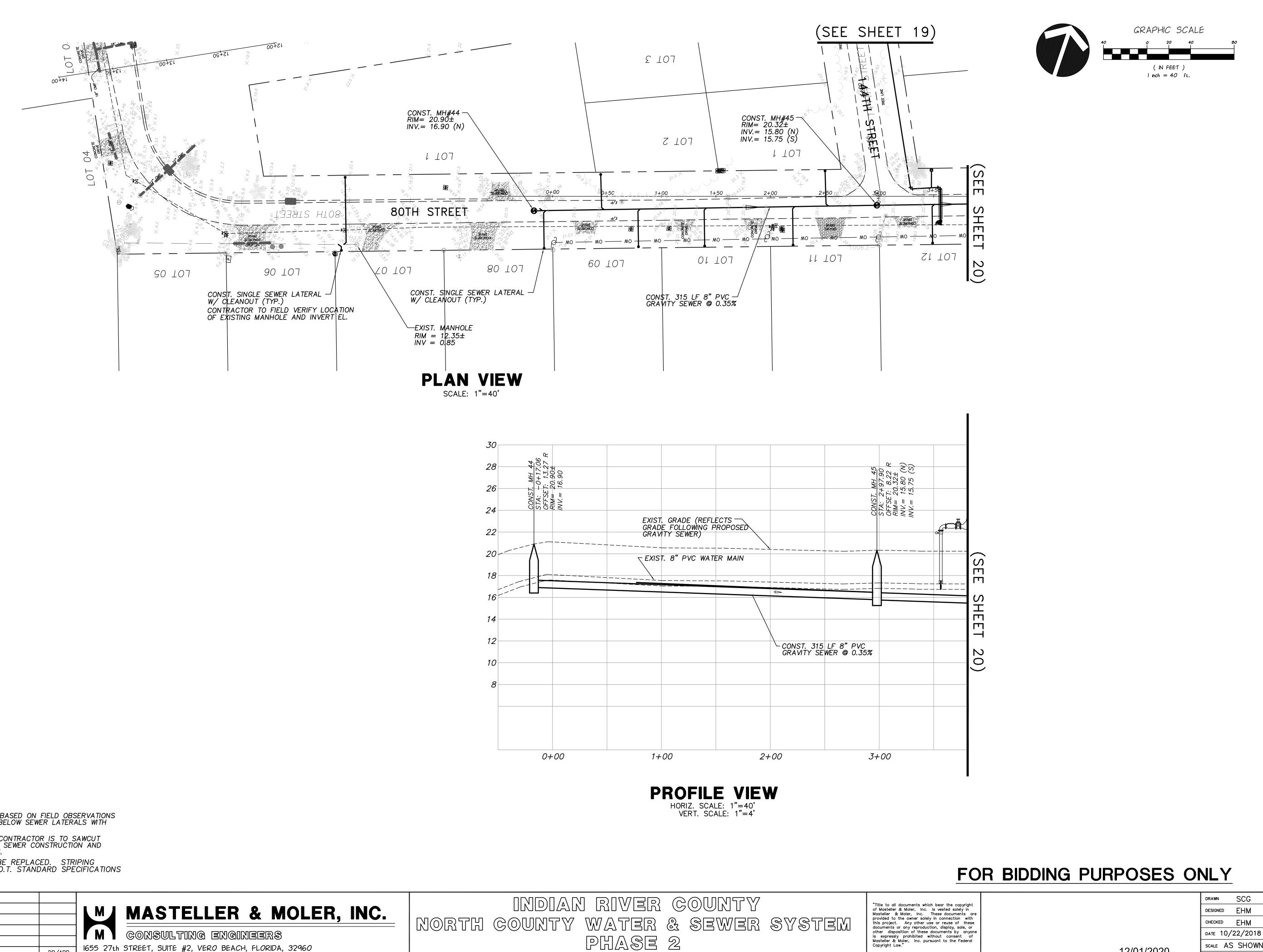
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e						DESIGNE	D	EHM	
•						CHECKEI	D	EHM	
e						DATE	10/2	2/2018	;
				12/0	1/2020	SCALE	AS	SHOW	١
						SHEET	17	of 37	
	EARL	Η.	MASTELLER,	P.E.	FL#26658	DWG NO		1422	
	EARL	Н.	MASTELLER,		1/2020 FL #26658	SCALE SHEET	AS 17	SHO of 37	۷۱ ′

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T	O BE THE	RBED STRIPING AND SIGNAGE TO BE REPLAC ERMOPLASTIC CONFORMING TO F.D.O.T. STAND AND BRIDGE CONSTRUCTION.			
A E. Ri	LL WORK XISTING A ESTORE R	WITHIN ASPHALT ROADWAYS/DRIVES CONTRACTC SPHALT AS NECESSARY FOR GRAVITY SEWER CC OADWAY PER DETAILS SHEETS 30–33.	R IS TO S INSTRUCTIO	SAWCUT DN AND	
Р	RESSURE	TERAL LOCATIONS MAY BE ADJUSTED BASED ON MAINS TO BE INSTALLED ABOVE OR BELOW SEW 2" CLEARANCE.	FIELD OBS ER LATERA	ERVATIONS ALS WITH	
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DESCRIPTION

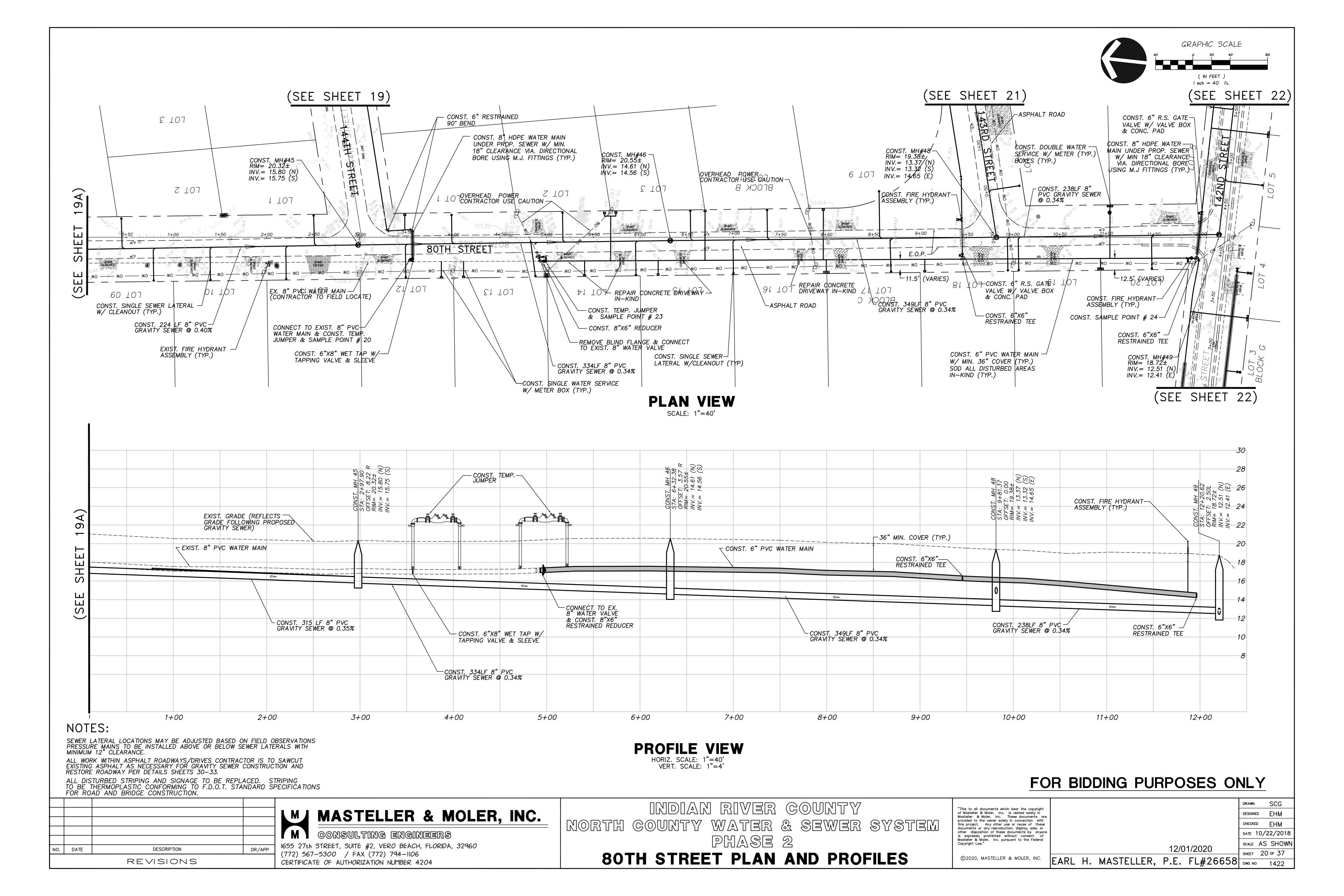
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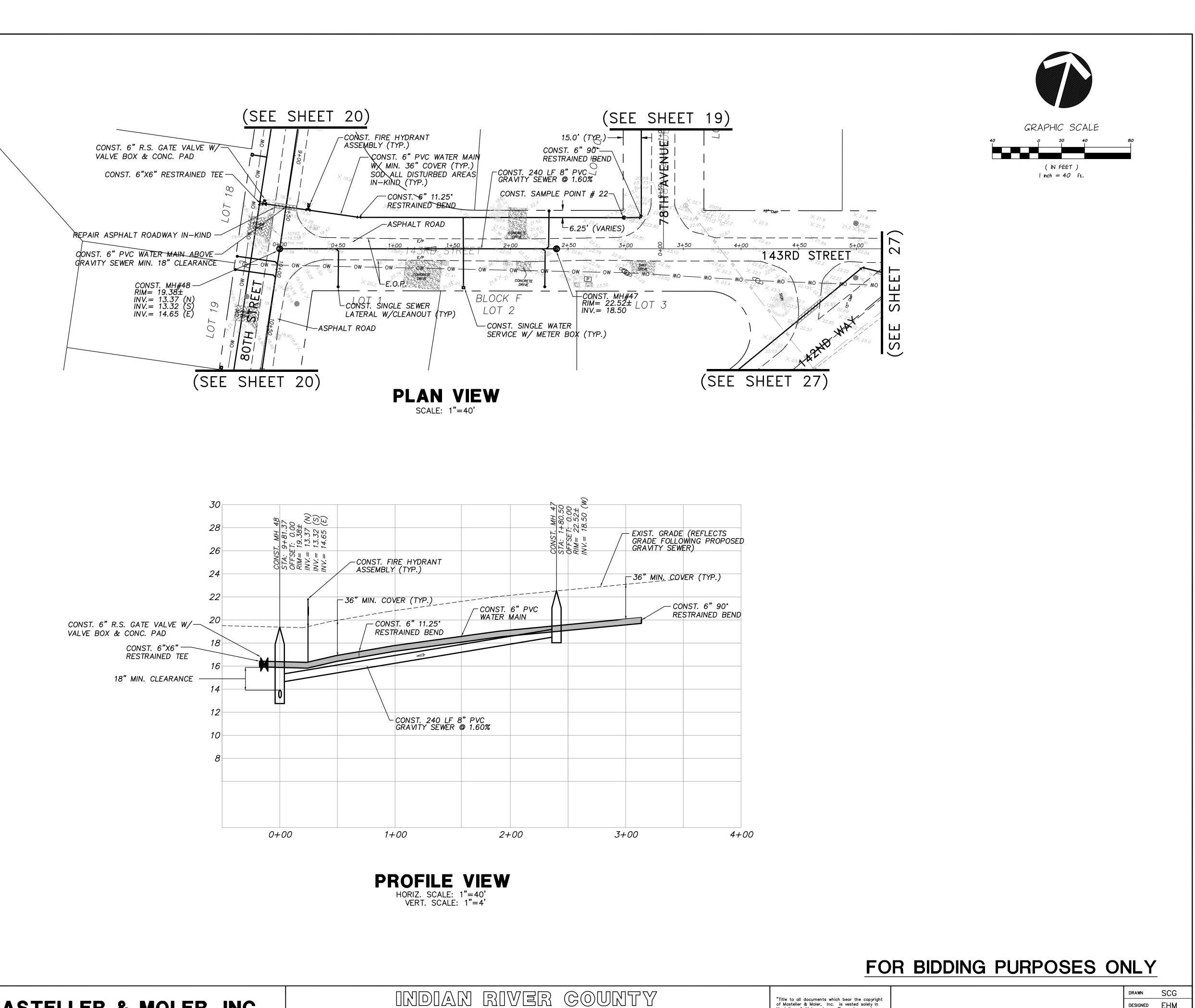
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NORTH COUNTY WATER & SEWER SYSTEM PHASE 2 **80TH AVE PLAN & PROFILES**

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							9A of 37
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NOTES: SEWER LATERAL LOCATIONS MAY BE ADJUSTED BASED ON FIELD OBSERVATIONS PRESSURE MAINS TO BE INSTALLED ABOVE OR BELOW SEWER LATERALS WITH MINIMUM 12" CLEARANCE. ALL WORK WITHIN ASPHALT ROADWAYS/DRIVES CONTRACTOR IS TO SAWCUT EXISTING ASPHALT AS NECESSARY FOR GRAVITY SEWER CONSTRUCTION AND RESTORE ROADWAY PER DETAILS SHEETS 30–33. ALL DISTURBED STRIPING AND SIGNAGE TO BE REPLACED. STRIPING TO BE THERMOPLASTIC CONFORMING TO F.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.



REVISIONS

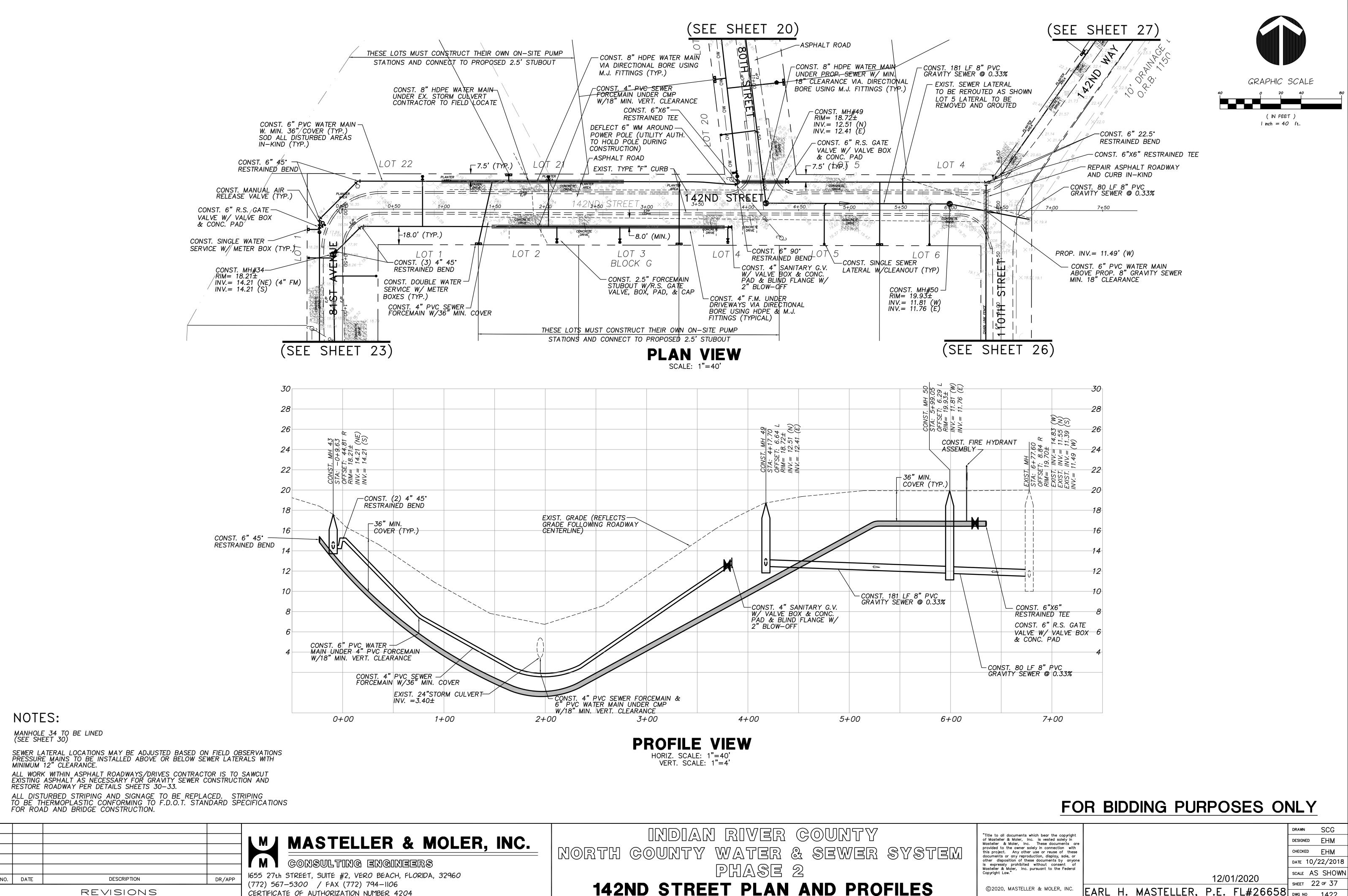
NO. DATE

DESCRIPTION

NORTH COUNTY WATER & SEWER SYSTEM PHASE 2

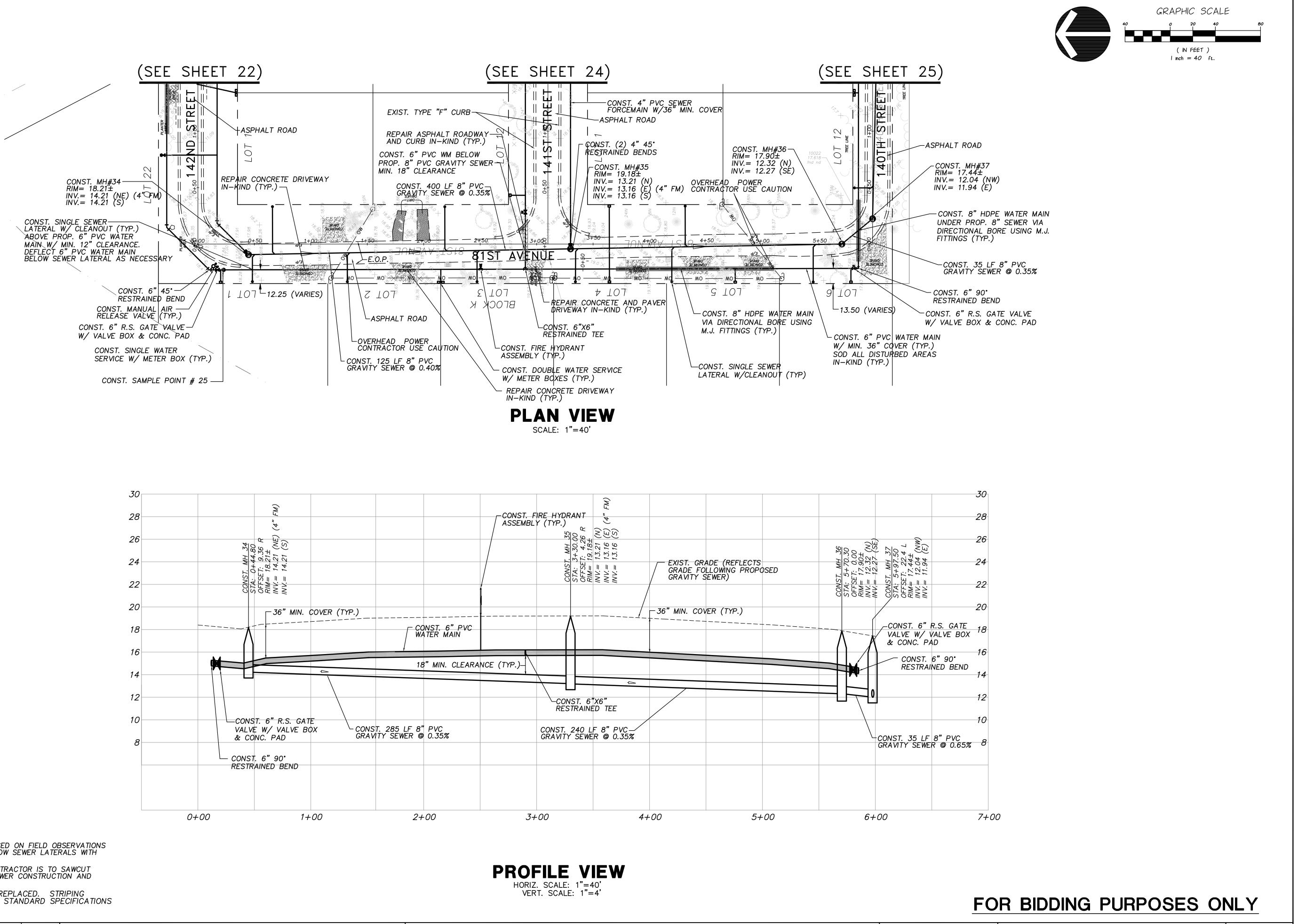
143RD STREET PLAN AND PROFILES

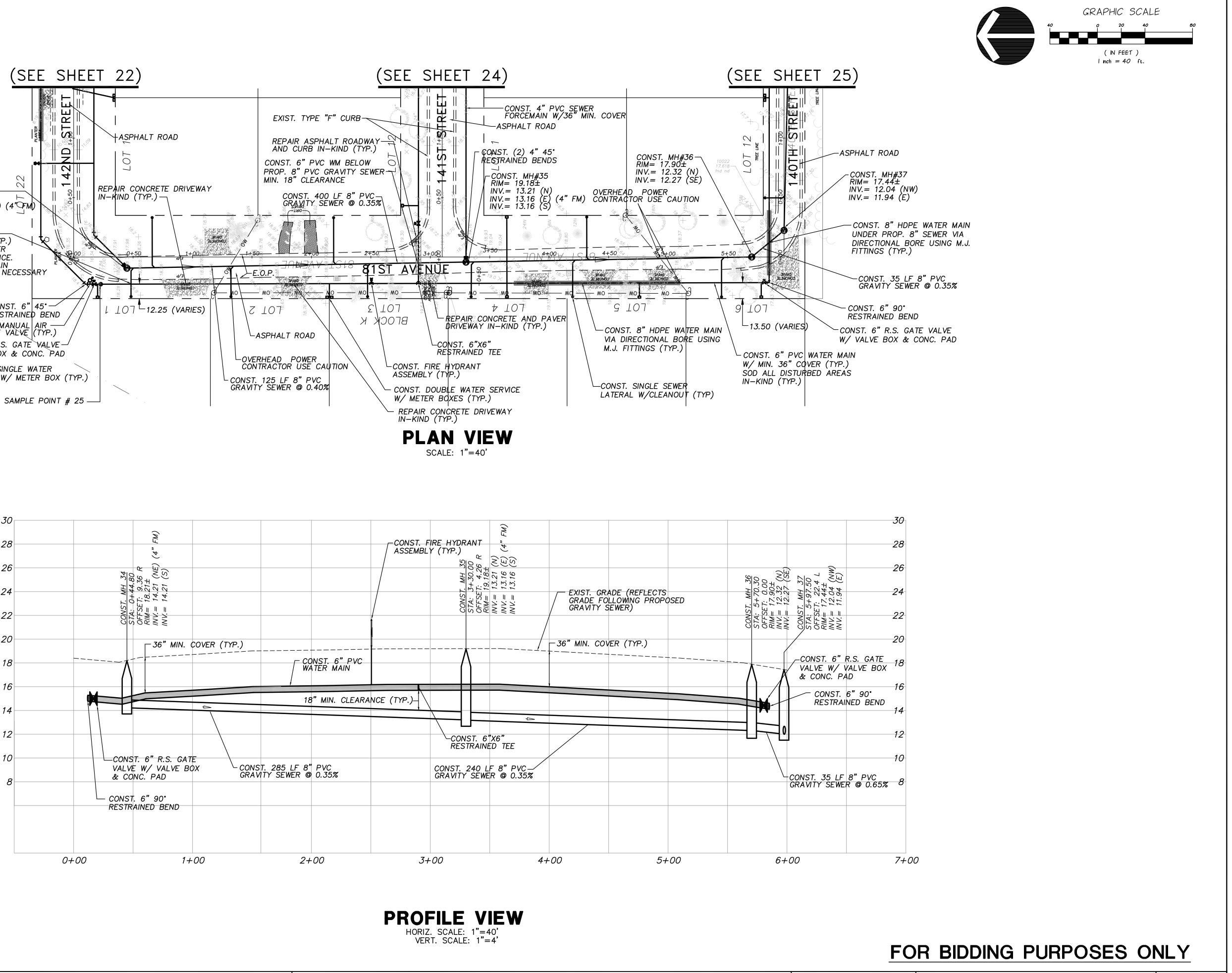
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142ND STREET PLAN AND PROFILES

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NOTES:

MANHOLES 34, 35, 36, & 37 TO BE LINED (SEE SHEET 30)

SEWER LATERAL LOCATIONS MAY BE ADJUSTED BASED ON FIELD OBSERVATIONS PRESSURE MAINS TO BE INSTALLED ABOVE OR BELOW SEWER LATERALS WITH MINIMUM 12" CLEARANCE. ALL WORK WITHIN ASPHALT ROADWAYS/DRIVES CONTRACTOR IS TO SAWCUT EXISTING ASPHALT AS NECESSARY FOR GRAVITY SEWER CONSTRUCTION AND RESTORE ROADWAY PER DETAILS SHEETS 30–33. ALL DISTURBED STRIPING AND SIGNAGE TO BE REPLACED. STRIPING TO BE THERMOPLASTIC CONFORMING TO F.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

NO.	DATE

DESCRIPTION

REVISIONS

DR/APP

MASTELLER & MOLER, INC. M M Consulting Engineers 1655 27th STREET, SUITE #2, VERO BEACH, FLORIDA, 32960

(772) 567-5300 / FAX (772) 794-1106

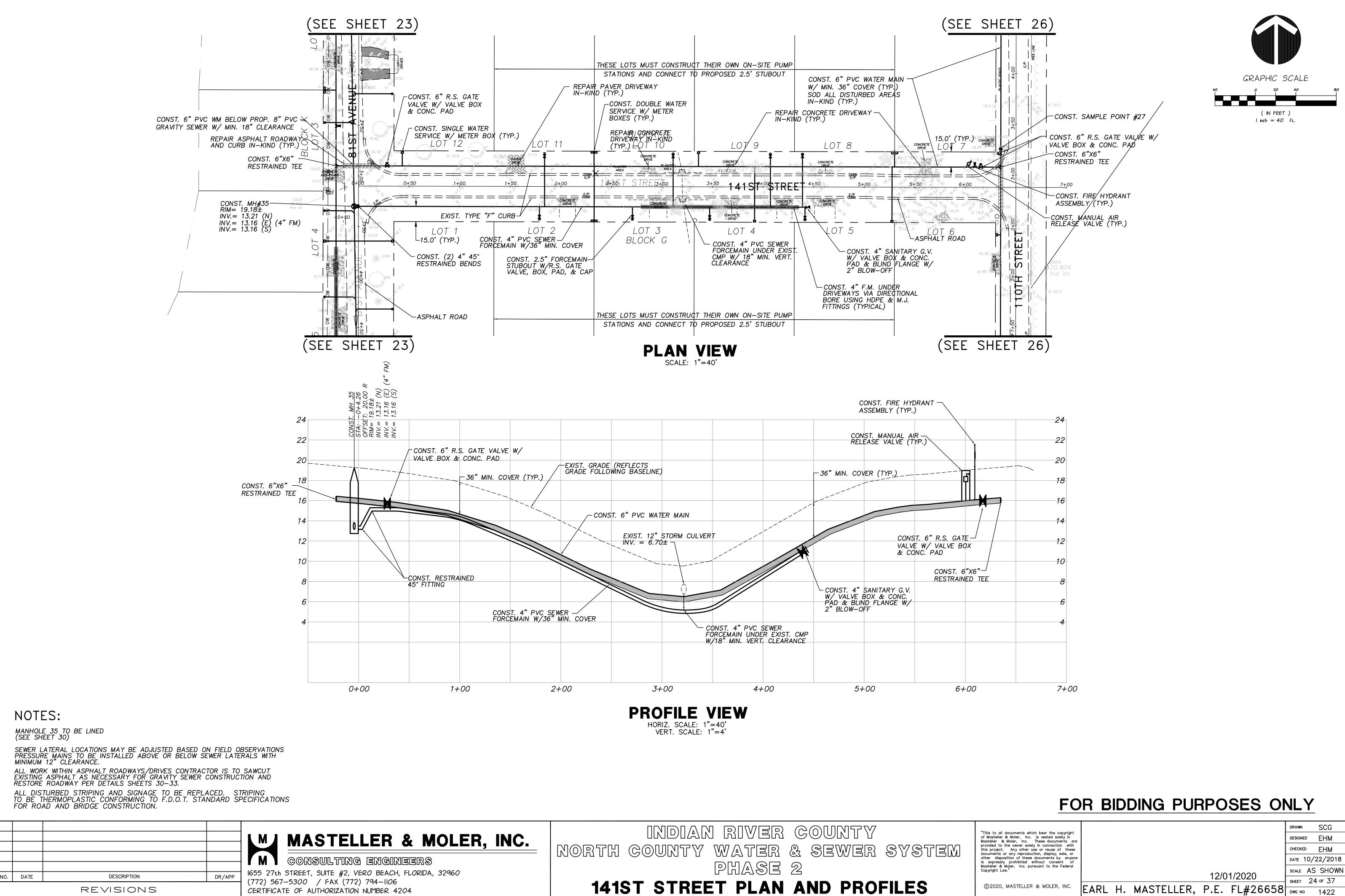
CERTIFICATE OF AUTHORIZATION NUMBER 4204



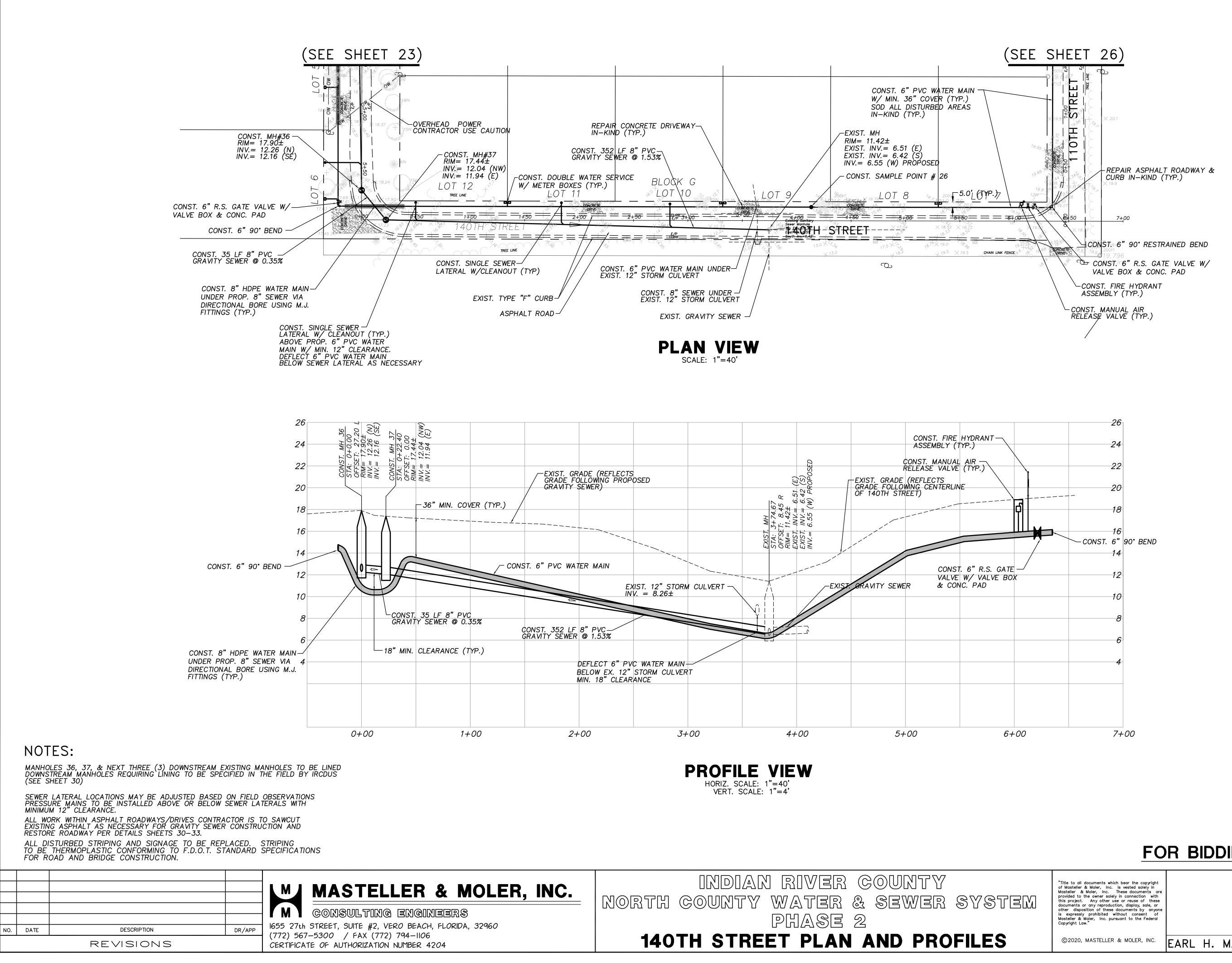
INDIAN RIVER COUNTY County water & sewer system NORTH PHASE 2

81ST AVENUE PLAN AND PROFILES

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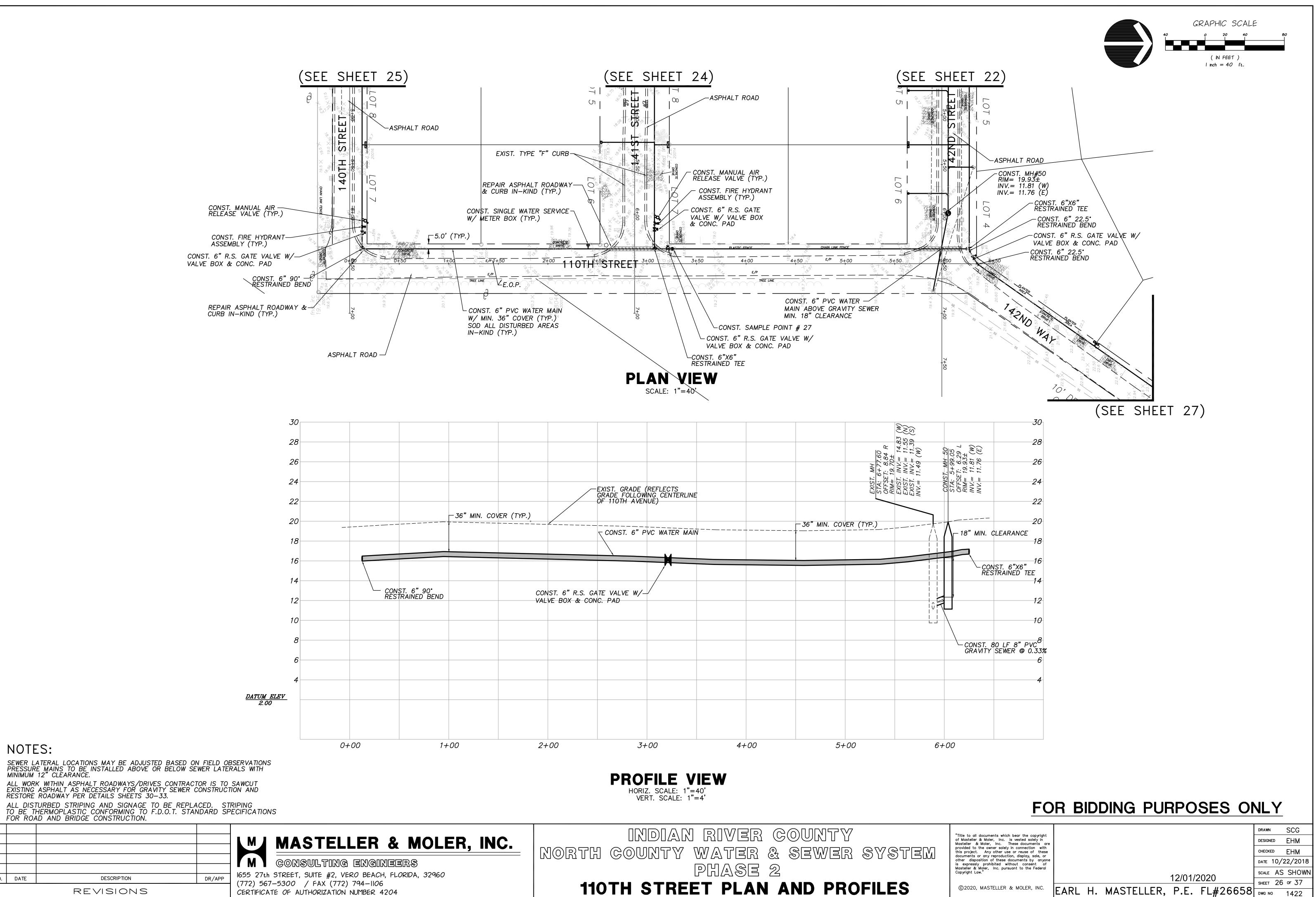


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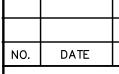
GRAPHIC SCALE

(IN FEET) l inch = 40 ft.

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ALL WORK WITHIN ASPHALT ROADWAYS/DRIVES CONTRACTOR IS TO SAWCUT EXISTING ASPHALT AS NECESSARY FOR GRAVITY SEWER CONSTRUCTION AND RESTORE ROADWAY PER DETAILS SHEETS 30–33.

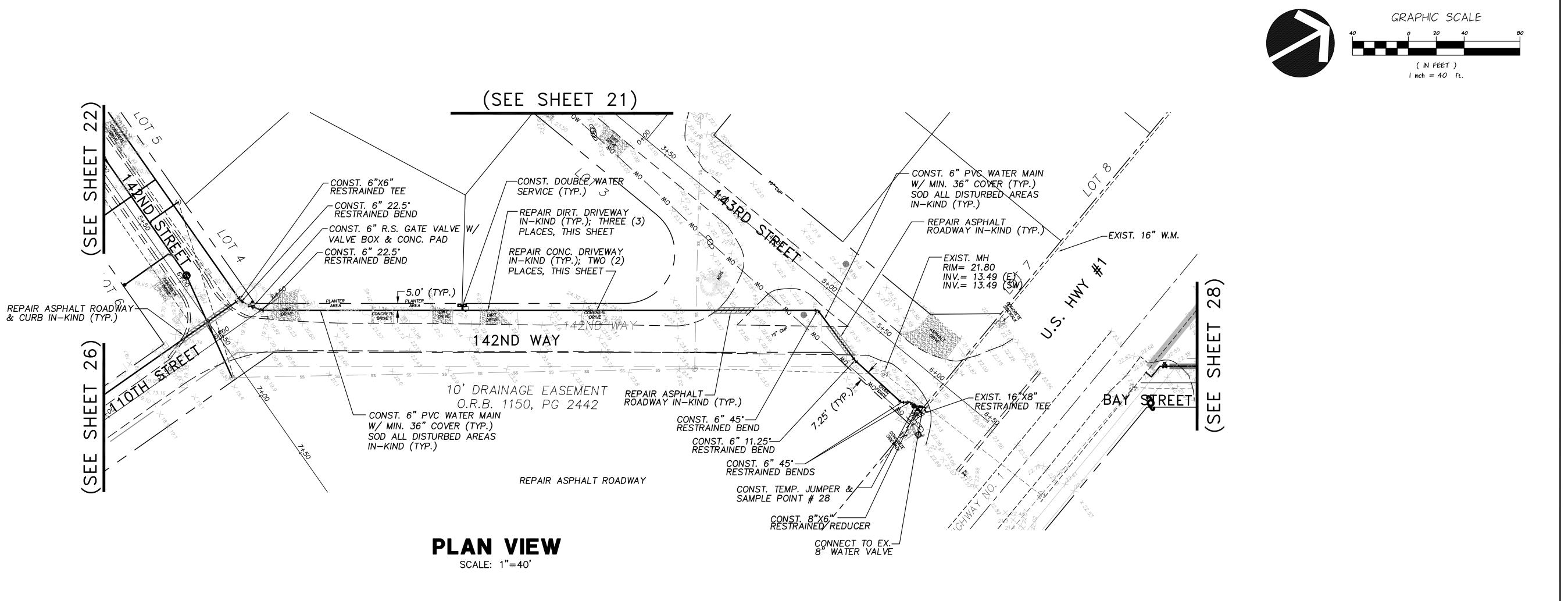


NOTES:

CERTIFICATE OF AUTHORIZATION NUMBER 4204

110TH STREET PLAN AND PROFILES





	NC	DTES:		
	PRES	ER LATERAL LOCATIONS MAY BE ADJUSTE SSURE MAINS TO BE INSTALLED ABOVE OF MUM 12" CLEARANCE.	D BASED ON FIEL R BELOW SEWER	D OBSERVATIONS LATERALS WITH
	ALL EXIS REST	WORK WITHIN ASPHALT ROADWAYS/DRIVES TING ASPHALT AS NECESSARY FOR GRAVI TORE ROADWAY PER DETAILS SHEETS 30—	S CONTRACTOR IS TY SEWER CONST 33.	S TO SAWCUT RUCTION AND
	το ε	DISTURBED STRIPING AND SIGNAGE TO BE THERMOPLASTIC CONFORMING TO F. ROAD AND BRIDGE CONSTRUCTION.		
				MASTELLER & M
				M CONSULTING ENGINEERS
NO.	DATE	DESCRIPTION	DR/APP	1655 27th STREET, SUITE #2, VERO BEACH, FLORIDA, (772) 567–5300 / FAX (772) 794–1106

REVISIONS

CERTIFICATE OF AUTHORIZATION NUMBER 4204

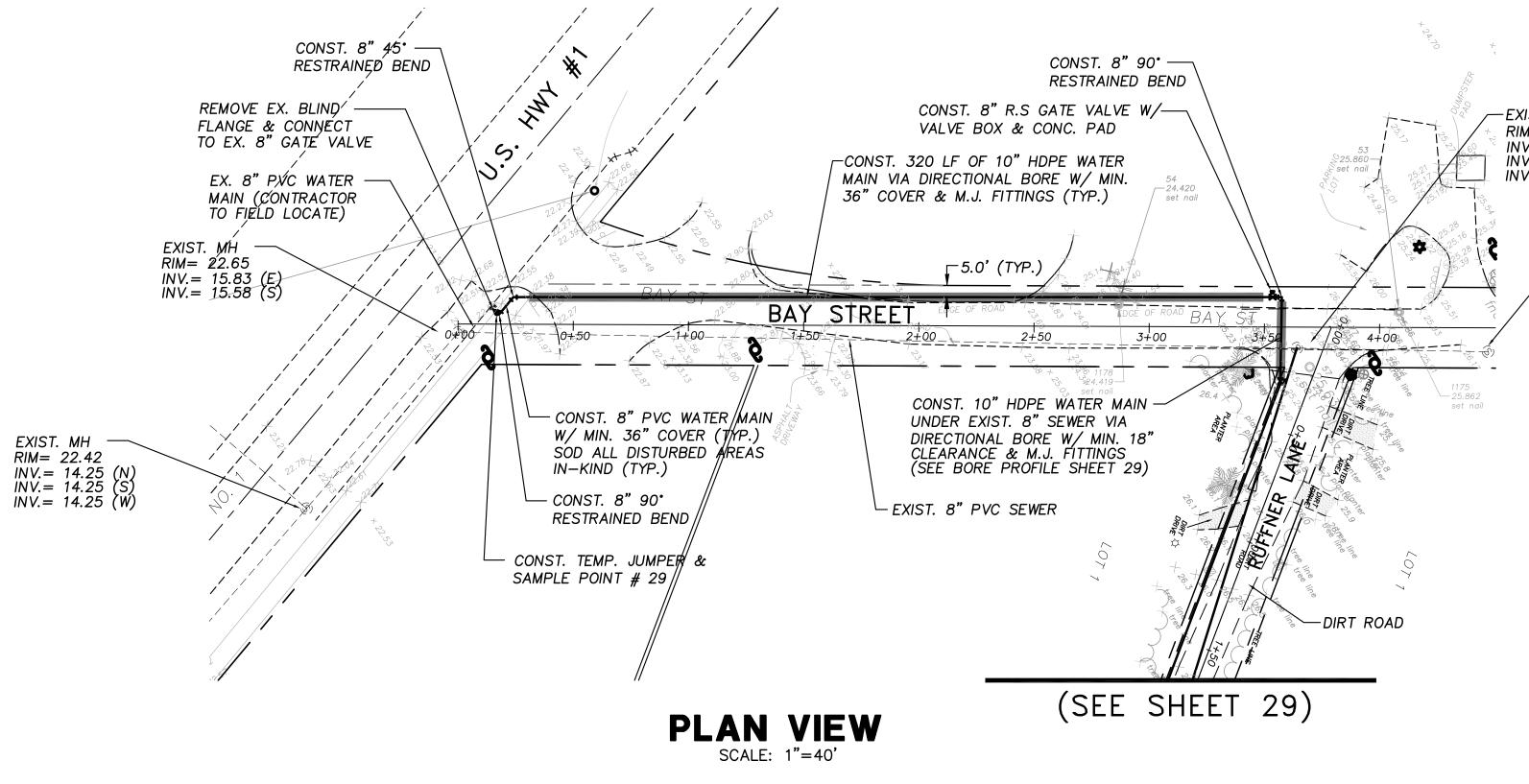


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ALL EXIST REST	'ORK WITHIN ASPHALT ROADWAYS/DRIVES CO NG ASPHALT AS NECESSARY FOR GRAVITY S RE ROADWAY PER DETAILS SHEETS 30–33.	ONTRACTOR IS TO SAWCUT SEWER CONSTRUCTION AND	
ΤΟ Β	DISTURBED STRIPING AND SIGNAGE TO BE THERMOPLASTIC CONFORMING TO F.D.O. ROAD AND BRIDGE CONSTRUCTION.	E REPLACED. STRIPING .T. STANDARD SPECIFICATIONS	
			Μ
			60

DR/APP

	18 16 14 12 10 8		CONST. 8" 45° RESTRAINED BEND CONST. 8" 90° RESTRAINED BEND MOVE EX. BLIND FLANGE & NNECT TO EX. 8" GATE VALVE		– CONST. 10" HDPE WA VIA DIRECTIONAL BOR MIN. COVER & M.J. FI	E W/ 36"	CONST. 8" R.S GATE VALVE W/ VALVE BOX & CONC. PAD
ERVATIONS LS WITH AWCUT N AND PING CIFICATIONS		D+00	1+00 BORE P HORIZ. SCAL VERT. SCALE	E: 1"=40'	3+	00	4+00
MASTELLER & CONSULTING ENGINEER 655 27th STREET, SUITE #2, VERO BEACH, FLORI (772) 567–5300 / FAX (772) 794–1106 CERTIFICATE OF AUTHORIZATION NUMBER 4204	S	R, INC.		OUNTY	I RIVER Water Phase Et plan	& SEV 2	ver system

CONST. TEMP. JUMPER

- 36" MIN. COVER (TYP.)

.____

EXIST. GRADE (REFLECTS GRADE FOLLOWING EXISTING GRAVITY SEWER ALIGNMENT)

- 36" MIN. COVER (TYP.)

- CONST. 8" 90" RESTRAINED BEND

30

28

26

24

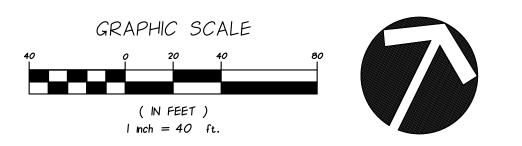
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REVISIONS

DESCRIPTION

NO. DATE

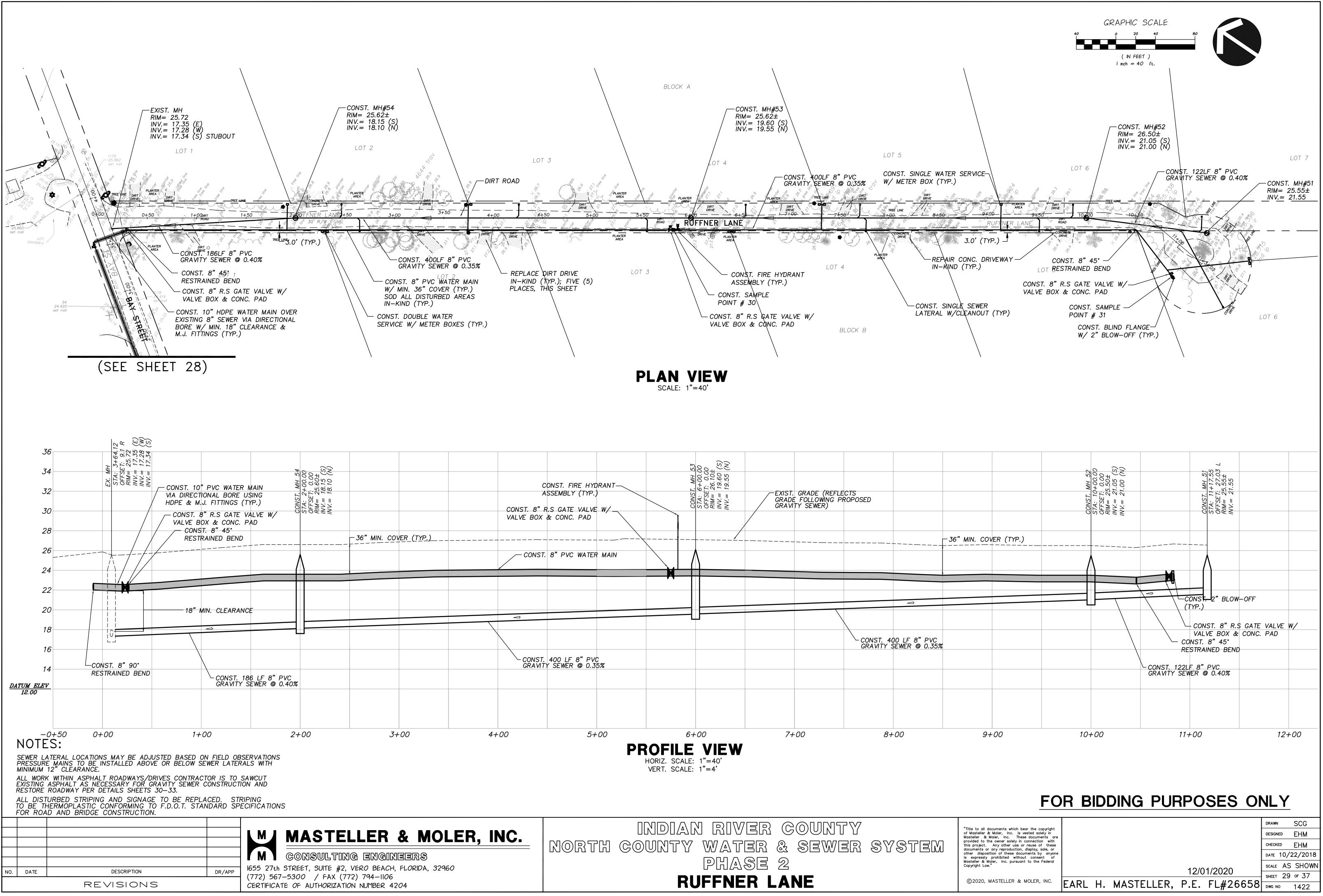


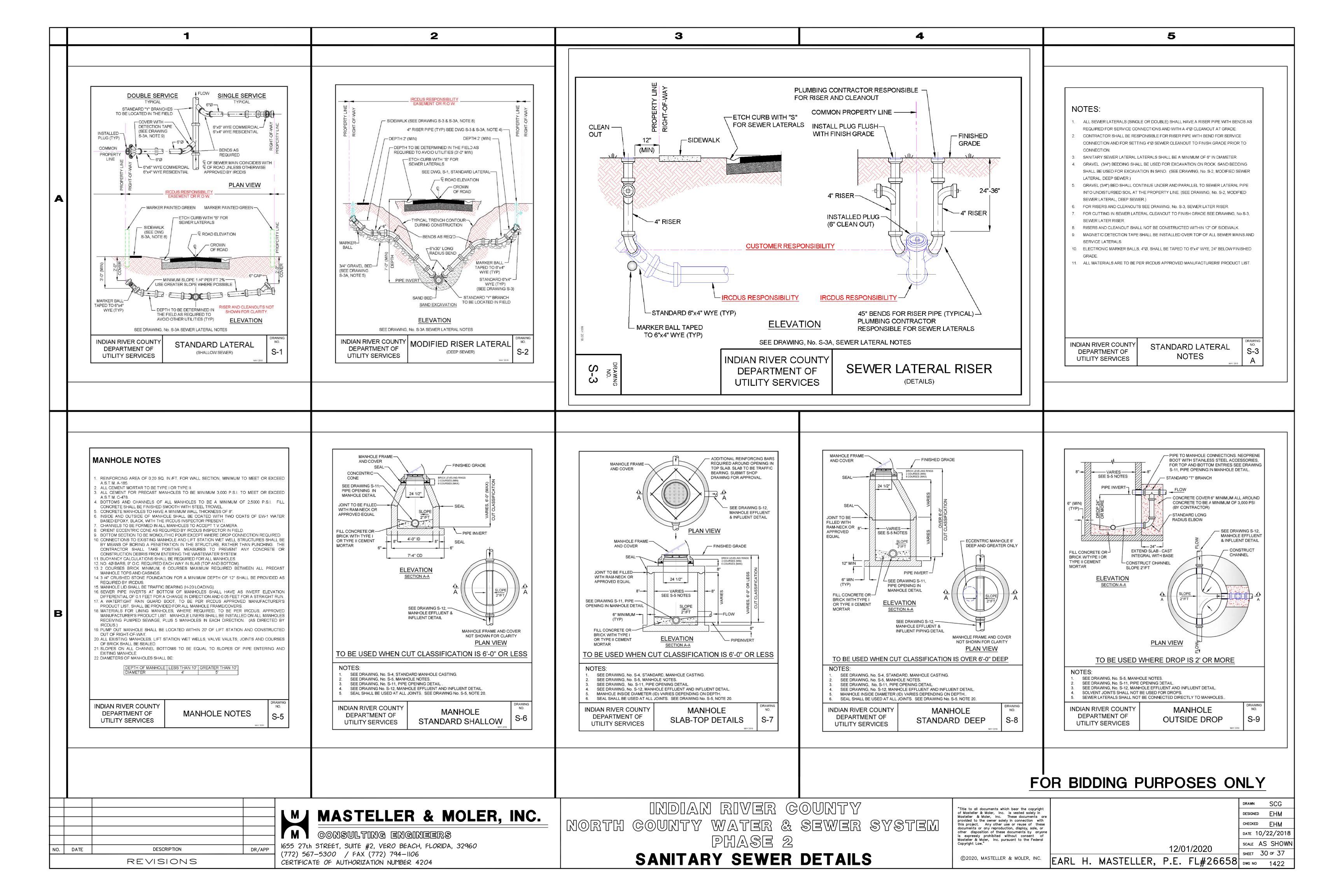
EXIST. MH + RIM= 25.72 INV.= 17.35 (E) INV.= 17.28 (W) INV.= 17.34 (S) STUBOUT

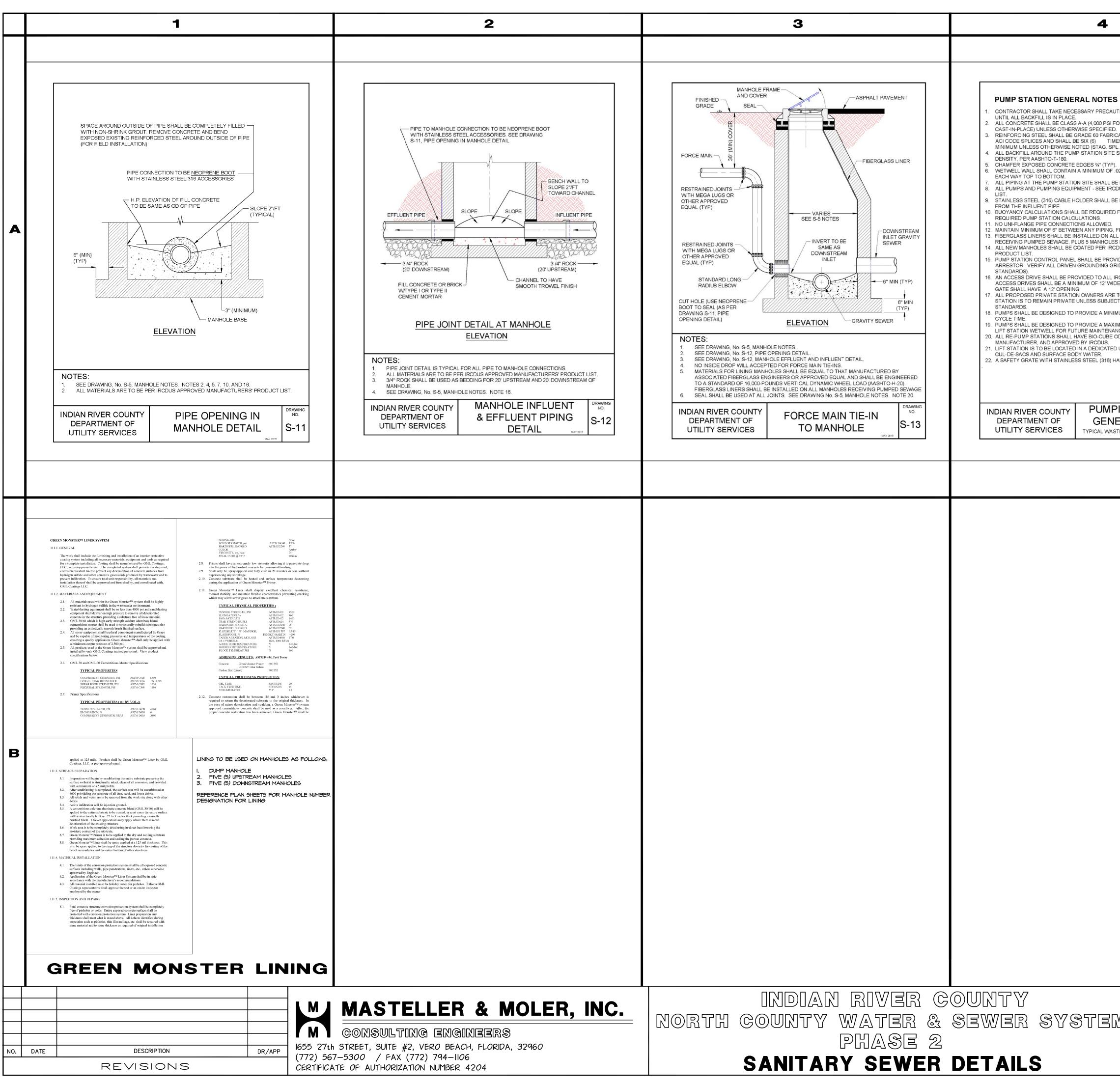
> EXIST. MH RIM= 26.40 INV.= 17.60 (N) INV.= 17.58 (W)

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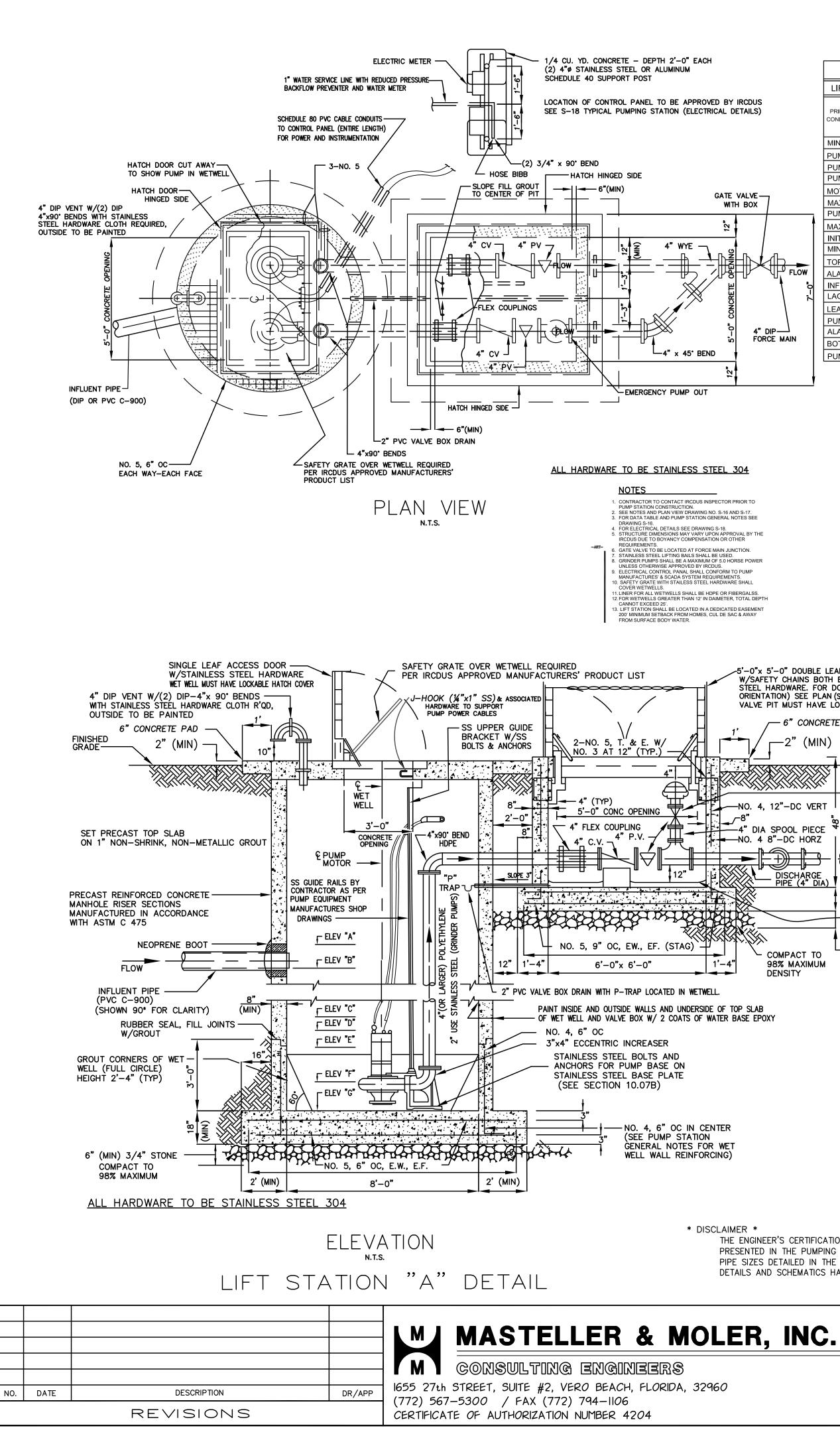
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	5
S	PUMP STATION GENERAL NOTES (CONTINUED)
FOR PRECAST AND 3,000 PSI FOR D.	23. CONTRACTOR TO INSTALL PERMANENT SIGNAGE WITH CONTACT INFORMATION AND PHONE NUMBER AT ALL IRCDUS AND PRIVATE LIFT STATIONS. CONTRACTOR TO PROVIDE SECURITY FOR PRIVATE LIFT STATIONS PER IRCDUS PLANS REVIEW.
ICATED AND PLACED IN ACCORDANCE WITH MES THE BAR DIAMETER NUMBER SIZE OR 18" PL., TYP).	SECURITY TO INCLUDE, BUT NOT LIMITED TO, LOCKABLE HATCH COVER LIDS FOR THE WETWELL AND VALVE PIT. 24. CONTRACTOR TO CONTACT IRCDUS INSPECTOR PRIOR TO PUMP STATION
SHALL BE COMPACTED @ 98% OF MAXIMUM). .022 SQ IN/LINEAR FOOT REINFORCEMENT,	CONSTRUCTION. 25. SEE TYPICAL WASTEWATER PUMPING STATION DRAWINGS, S-14 & S-14A PLAN VIEW AND DRAWINGS, S-15 & S-15A.CROSS SECTION FOR GENERAL LAYOUT OF WETWELL
BE RESTRAINED. COUS APPROVED MANUFACTURERS' PRODUCT	 AND VALVE VAULT. SEE DRAWING S-16, S-16A AND S16B FOR TYPICAL PUMPING STATION SITE PLAN GENERAL LAYOUT. SEE DRAWINGS S-17, S-18, S-18A, S-19 AND S-19A FOR ELECTRICAL DETAILS. 26. STRUCTURE DIMENSIONS MAY VARY UPON APPROVAL BY THE IRCDUS DUE TO
BE LOCATED ON OPPOSITE SIDE OF WETWELL	 STRUCTORE DIMENSIONS MAY VARY OF ON APPROVAL BY THE IRODOS DUE TO BUOYANCY COMPENSATION OR OTHER REQUIREMENTS. GATE VALVE TO BE LOCATED AT FORCE MAIN JUNCTION. STAINLESS STEEL (316) LIFTING BAILS SHALL BE USED FOR PUMPS IN LIFT STATIONS.
FITTINGS ETC. AND PRECAST CONCRETE.	 29. GRINDER PUMPS SHALL BE A MAXIMUM OF 5.0 HP UNLESS OTHERWISE APPROVED BY IRCDUS. 30. ELECTRICAL CONTROL PANEL (NEMA 4X, POWDER COATED 316 STAINLESS STEEL)
IS IN EACH DIRECTION. CDUS APPROVED MANUFACTURERS'	 SHALL CONFORM TO PUMP MANUFACTURERS' & SCADA SYSTEM REQUIREMENTS. 31. ALL WET WELLS SHALL BE LINED. SEE SPECIFICATIONS SECTION 10. 32. ALL WET WELLS 15' DEEP OR GREATER THAN 10' DIAMETER MUST BE APPROVED BY
VIDED WITH APPROPRIATE LIGHTNING RIDS PER N.E.C. 250.56 AND SCADA (LATEST IRCDUS MAINTAINED LIFT STATIONS. ALL	 IRCDUS ENGINEERING. 33. OUTSIDE WALLS AND UNDERSIDE OF WETWELL TOP SLAB AND VALVE BOX SHALL BE PAINTED WITH (2) TWO COATS OF WATER BASE EPOXY. 24. ALL HARDWARE TO BE 316 STAINLESS STEEL
DE, 45' LONG. IF FENCE IS INSTALLED, SWING	 ALL HARDWARE TO BE 316 STAINLESS STEEL. PUMP STATION POWER SUPPLY FROM FLORIDA POWER & LIGHT ELECTRIC POWER POLE OR TRANSFORMER TO THE PUMP STATION ELECTRIC PANEL SHALL BE INCLUDED ON THE RECORD DRAWING.
CT STATION IS CONSTRUCTED TO IRCDUS MUM PUMP RUN TIME EQUAL TO HALF THE	 PAINT OUTSIDE OF WALLS, UNDERSIDE OF WETWELL TOP SLAB AND VALVE VAULT WITH TWO COATS OF WATER BASE EPOXY.
IMUM CLEARANCE OF TEN FEET OUTSIDE OF NCE. ODOR CONTROL SYSTEMS AS REQUIRED BY	
D UTILITY EASEMENT, 50' AWAY FROM HOMES,	
HARDWARE IS REQUIRED FOR ALL WETWELLS. REFER TO SPECIFICATIONS SECTION 10	REFER TO SPECIFICATIONS SECTION 10 SUBMERSIBLE WASTEWATER
SUBMERSIBLE WASTEWATER PUMPING STATION	PUMPING STATION
PING STATION DRAWING NO.	INDIAN RIVER COUNTY PUMPING STATION DEPARTMENT OF GENERAL NOTES S-19
STEWATER PUMPING STATION	UTILITY SERVICES TYPICAL WASTEWATER PUMPING STATION A
F	 OR BIDDING PURPOSES ONLY
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SANITAR	Y S	SEWE	K	DEI	AIL

COMPACT TO 98% MAXIMUM DENSITY 1'-4"

-5'-0"x 5'-0" DOUBLE LEAF ACCESS DOOR W/SAFETY CHAINS BOTH ENDS AND STAINLESS STEEL HARDWARE. FOR DOOR SWING OPEN (TRUE ORIENTATION) SEE PLAN (SHOWN 90" FOR CLARITY) VALVE PIT MUST HAVE LOCKABLE HATCH COVER - 6" CONCRETE PAD -2" (MIN) FINISHED GRADE MALE DISCONNECT 4" COUPLER (BRONZE) NO. 4, 12"-DC VERT <u>~8"</u> GATE VALVE WITH BOX 4" DIA SPOOL PIECE DISCHARGE PIPE (4" DIA ∠ 4" DIP OR PVC SLOPE FLOOR TO DRAIN AT 1" PER FOOT

6" (MIN) 3/4" STONE AROUND ALL STRUCTURES

THE ENGINEER'S CERTIFICATION BELOW PERTAINS ONLY TO THE INFORMATION PRESENTED IN THE PUMPING STATION DATA TABLE AND THE ELEVATIONS AND

PIPE SIZES DETAILED IN THE CROSS SECTION AND PLAN VIEWS. ALL ELECTRICAL DETAILS AND SCHEMATICS HAVE BEEN SHOWN FOR INFORMATIONAL PURPOSES ONLY

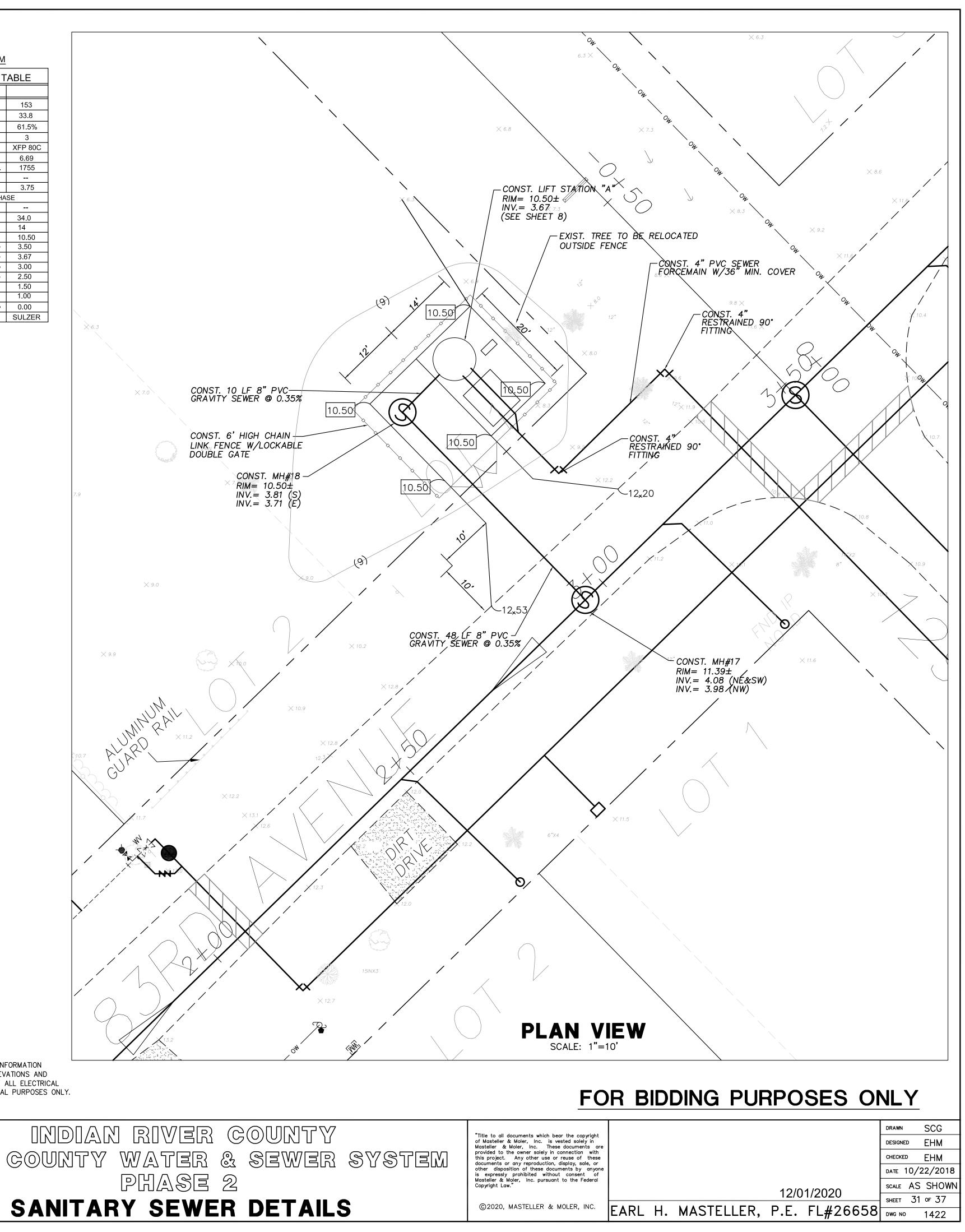
NORTH

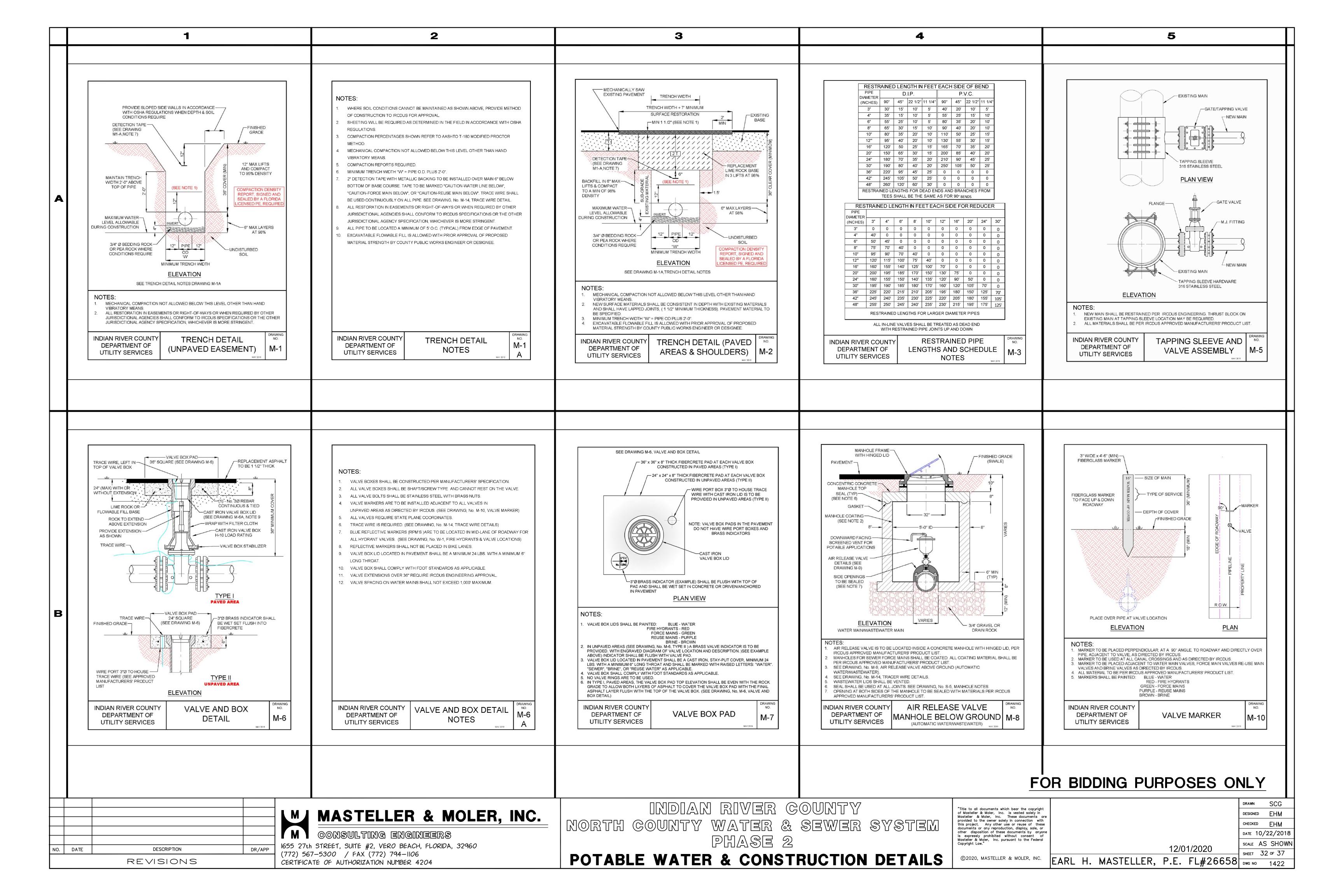
FORCE MAIN PUMP MANUFACTURER

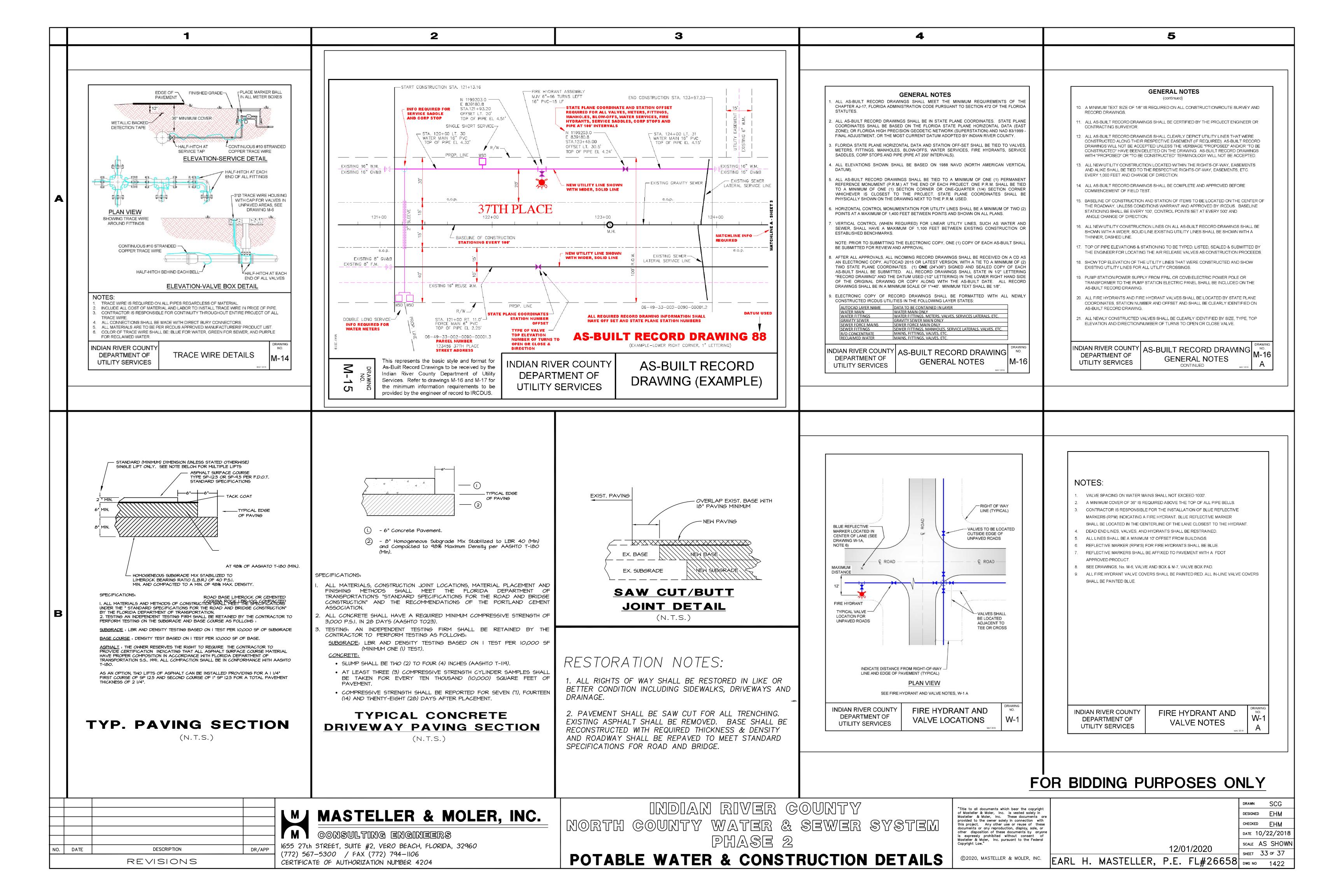
4" DIP

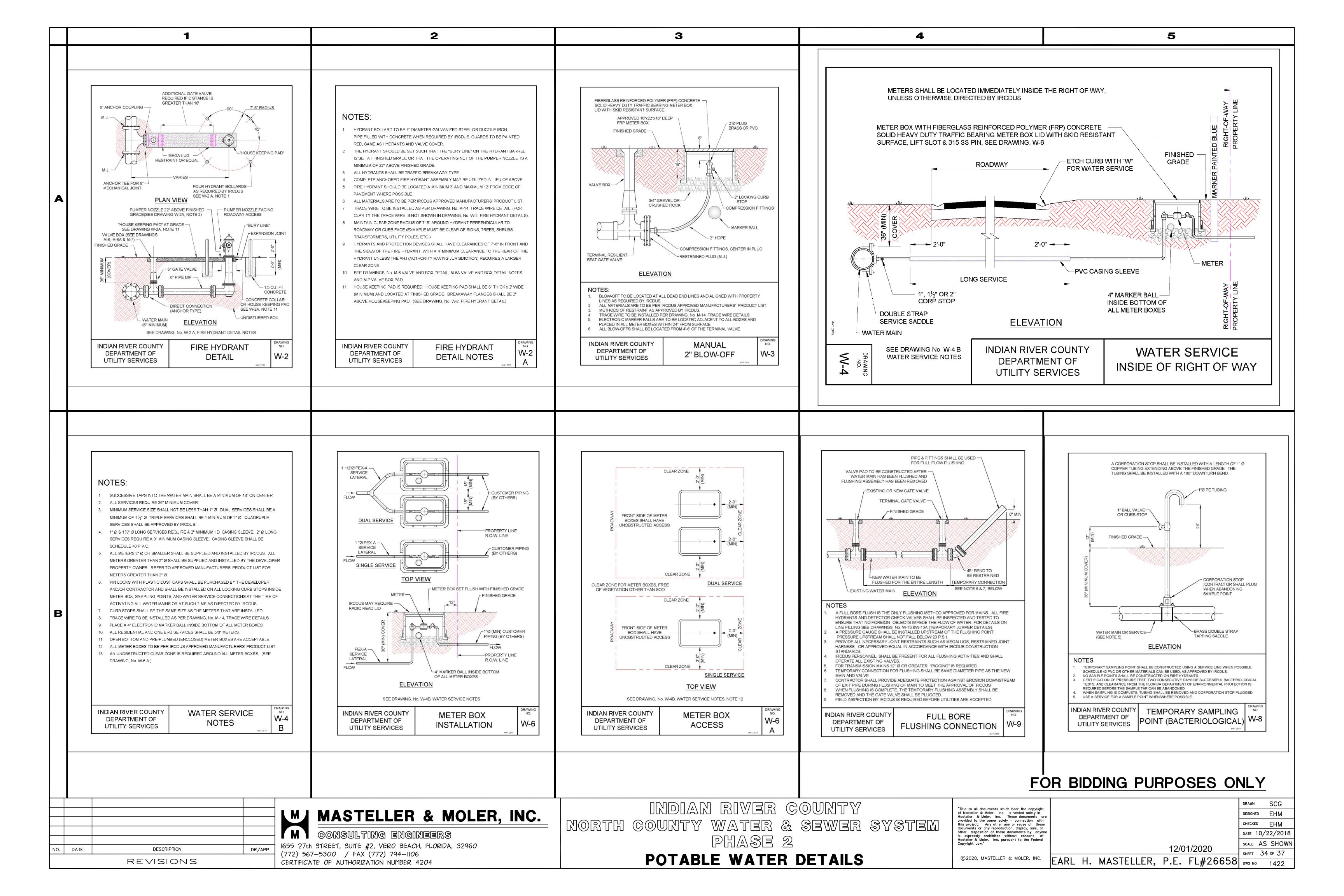
WITH BOX

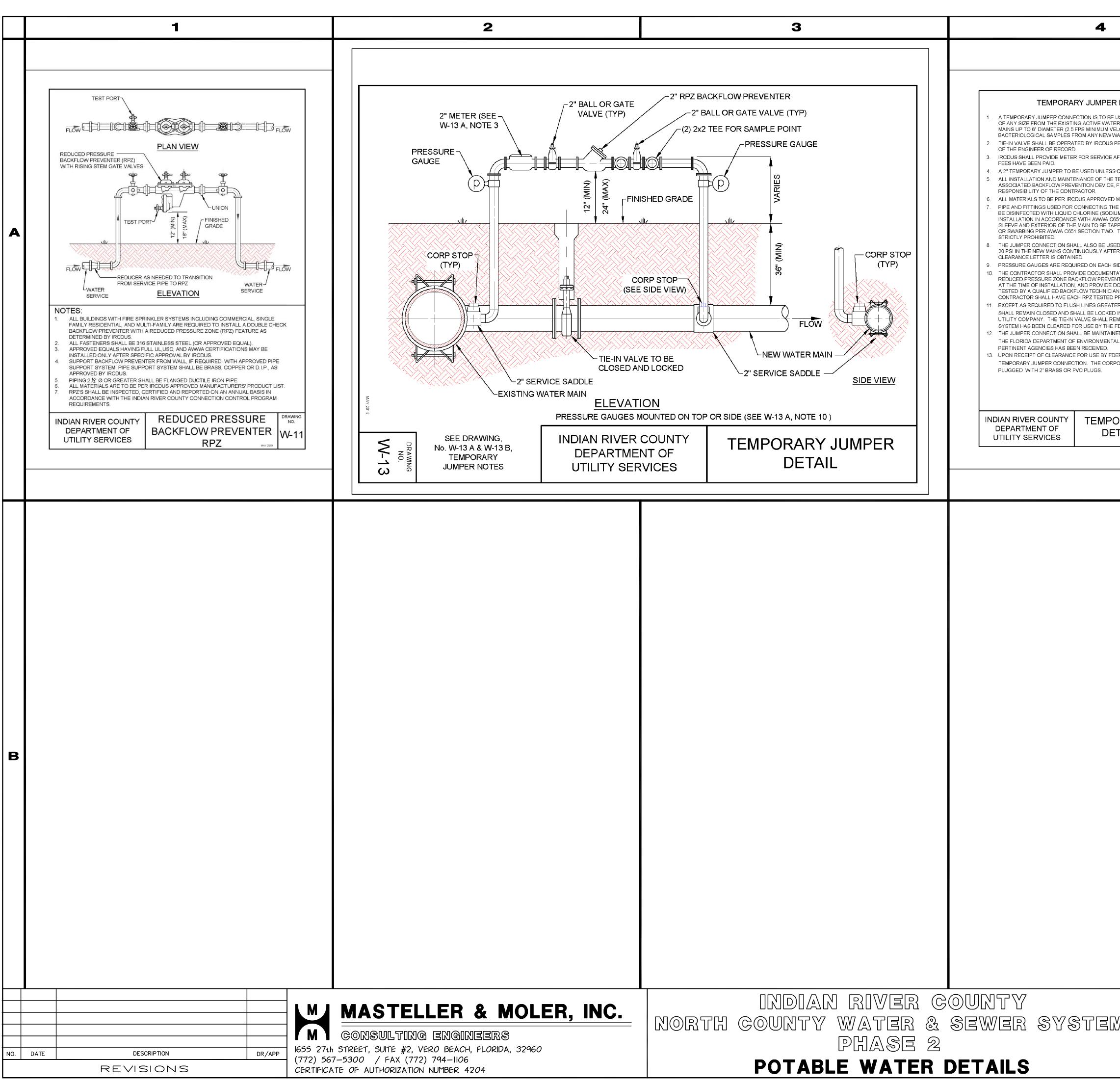
Ē	LOAT CONTROL	SYSTEM	
PU	MPING STATION	DATA T	ABLE
LIFT ST/	ATION NUMBER		
	PUMPING CAPACITY	G.P.M.	153
PRIMARY CONDITION	TOTAL HEAD (±)	FEET	33.8
	EFFICIENCY	%	61.5%
MIN. SOLI	DS PASS. IMPELLER	in	3
PUMP MO	DEL NUMBER	NO.	XFP 80C
	PELLER	in.	6.69
PUMP SPI	EED (DESIGN)	R.P.M.	1755
MOTOR N	AMEPLATE H.P.	H.P.	
MAX. PUM	1P H.P.	H.P.	3.75
PUMP PO	WER 4	60V - 3 PHA	SE
МАХ. МОТ	OR SPEED	R.P.M.	
INITIAL IN	FLUENT PEAK RATE	G.P.M.	34.0
MIN. PUM	P CYCLE TIME	MINS.	14
TOP OF W	/ETWELL	RIM	10.50
ALARM SI	GNAL ON ELEV.	ELEV."A"	3.50
INFLUENT	PIPE INV. ELEV.	ELEV."B"	3.67
LAG PUM	P ON ELEV.	ELEV."C"	3.00
LEAD PUN	/IP ON ELEV. (+)	ELEV."D"	2.50
PUMPS O	FF ELEVATION	ELEV."E"	1.50
ALARM SI	GNAL ON ELEV.	ELEV."F"	1.00
BOTTOM	OF WET WELL	ELEV."G"	0.00
PUMP MA	NUFACTURER		SULZER











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	5
DETAIL NOTES	
JSED FOR FILLING ANY NEW WATER MAIN R MAINS AND FOR THE FLUSHING OF NEW	
LOCITY) AND FOR PULLING ATER MAIN OF ANY SIZE. PERSONNEL ONLY AND IN THE PRESENCE	
FTER APPLICATION, DEPOSIT AND ALL	
OTHERWISE DIRECTED BY IRCDUS. TEMPORARY JUMPER CONNECTION AND FITTINGS, VALVES, ETC., SHALL BE THE	
MANUFACTURERS' PRODUCT LIST. E NEW PIPE TO THE EXISTING PIPE SHALL	
JM HYPOCHLORITE) PRIOR TO 51, LATEST EDITION. THE TAPPING PPED SHALL BE DISINFECTED BY SPRAYING	
THE USE OF CHLORINE TABLETS IS D TO MAINTAIN A MINIMUM PRESSURE OF	
R DISINFECTION AND UNTIL FDEP	
ATION DEMONSTRATING THAT THE ITER (RPZ) IS IN GOOD WORKING ORDER OCUMENTATION THAT THE RPZ HAS BEEN N AS APPROVED BY IRCDUS. THE	
RIOR TO USE ON EACH PROJECT. ER THAN 6" DIAMETER, THE TIE-IN VALVE IN THE CLOSED POSITION BY THE	
MAIN LOCKED CLOSED UNTIL THE NEW TOEP. ED UNTIL CLEARANCE FOR USE FROM	
L PROTECTION (FDEP) AND OTHER	
EP, THE CONTRACTOR SHALL REMOVE ORATION STOPS ARE TO BE CLOSED AND	
DRAWING	
TAIL NOTES	
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