

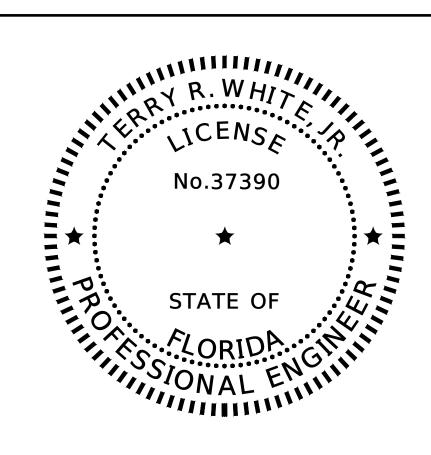
# COLUMBIA COUNTY, FLORIDA SECTION 7, TOWNSHIP 3S, RANGE

COVER SIGNATURE S NOTES WATER & SEV SITE PLAN **NORTH SITE GRADING PL UTILITY PLAN** SWMF LANDSCAPE **EROSION CO EROSION NO EROSION CON** MISCELLNEO **FIRE ACCESS** 

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THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

ON THE DATE ADJACENT TO THE SEAL

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NORTH FLORIDA PROFESSIONAL SERVICES INC. P.O. BOX 3823 LAKE CITY, FL 32056 CERTIFICATE OF AUTHORIZATION: 29011 TERRY R. WHITE, JR., P.E. NO. 37390

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

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SITE		8960	0.21	1.27%	1.279
SITE	LANDSCADE ADEA ON	233315	5.36	33.14%	33.149
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SITE	D IMPERVIOUS AREA ON-		10.80	66.86%	66.869
			3.03	22.44%	22.44
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		0	0.00	0.00%	0.00
	TOTAL EXISTING IMPERVIOUS AREA ON-   PROPOSED IMPERVIOUS AREA ON-SITE   EXISTING ASPHALT PAVEMENT TO   EXISTING CONCRETE TO REMAIN   EXISTING BUILDING TO REMAIN			0.00%	0.00
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TOTAL EXISTIN				0.00%	0.00
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EXISTING BUIL	DING	0	0.00	0.00%	0.00
		0	0.00	0.00%	0.00
		0	0.00	0.00%	0.00
	F-SITE				
(LOC)				100.00%	100.00
				100.00%	100.00
PROJECT PROP	ERTY BOUNDARY	SQ. FT.	ACRES	% OF SITE	% OF LO
	BELL ROAD, LAKE CITY,	FL			
	DISTRICT 1				
PARCEL ID NUMBER	08-35-17-04903-002				
	Bell Ro	ad			
	SITE DATA	TABL	E		
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RTH FLORIDA PF BOX 3823 E CITY, FL 32056 86-752-4675 IO. LB8356	ROFESSIONAL SERVICES, INC. 2551 BLAIRSTONE PINES DR. TALLAHASSEE, FL 32301 WWW.NFPS.NET CA# 29011	L220630CRA EOR: TERRY R. WHITE, JR. P.E. NO.: 37390	SIG COLU	
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## **BELL ROAD** UMBIA COUNTY, FLORIDA

NO. 2

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DATE	REVISIONS DESCRIPTION	NFPS	NORTH FLORIDA PROFESSIONAL SERVICEP.O. BOX 38232551 BLAIRSTONE PINESLAKE CITY, FL 32056TALLAHASSEE, FL 32301PH. 386-752-4675WWW.NFPS.NETLIC NO. LB8356CA# 29011	DR. EOR: TERRY R. WHITE, JR. P.E. NO.: 37390	<b>COLUN</b> athan Brenton 11/22/2022 7:42:43 PM
16. CON PROJEC		s wiihin			
MATERI INCLUDI AND DI	TIONS PRIOR TO BIDDING. CONTRACTOR SHALL PROVIDE ALL WOR ALS REQUIRED TO COMPLETE CONNECTION TO THE EXISTING UTILI ES BUT IS NOT LIMITED TO MANHOLE CORING, WET TAPS, PAVEME RECTIONAL BORING.	ITIES. TH. NT REPAIR	IS 31 ALL UTILITY AND/OR DRAINAGE STRUCTURE		
15. CON	EVELOPMENT REGULATIONS. TRACTOR SHALL REVIEW AND BECOME FAMILIAR WITH ALL REQUIP TIONS PRIOR TO BIDDING CONTRACTOR SHALL PROVIDE ALL WOR		30 ALL CONCRETE SLARS ABUTTING EXTERIOR	WALLS SHALL BE SOIL TREATED FO	)R
14. ALL	GINEER. SITE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY (	OF LAKE CI	REPAIR DETAIL #E23. IN ADDITION, A REPORT PROFESSIONAL MUST BE PROVIDED AS SOON A TY REVIEW AND APPROVAL THAT PROVIDES REAS WILL BE PERMANENTLY CORRECTED.	AS PRACTICAL TO THE DEPARTMENT	
WASTEV	UTILITY CONSTRUCTION SHALL MEET THE CITY OF LAKE CITY WAT VATER UTILITY STANDARDS, AVAILABLE FROM CITY HALL OR PUBLI E CONTRACTOR SHALL WASTE ALL EXCESS EARTH ON SITE AS DIR	C WORKS.	SYSTEM, A STRUCTURAL FAILURE IS OBSERVED THE DIRECT DISCHARGE OF SURFACE WATER CORRECTIVE ACTIONS DESIGNED OR APPROVED SHALL BE TAKEN AS SOON AS PRACTICAL TO C	INTO THE FLORIDAN AQUIFER SYSTE D BY A REGISTERED PROFESSIONAL CORRECT THE FAILURE. SEE KARST	
11. THE THE EX	E LOCATION OF THE UTILITIES SHOWN IN THE PLANS ARE APPROX ACT LOCATION SHALL BE DETERMINED BY THE CONTRACTOR DURIN UCTION. CONTRACTOR SHALL PROTECT ALL UTILITIES WITHIN THE	NG	29. IF DURING CONSTRUCTION OR OPERATION (	OTECTION AT LEAST 48 HOURS PRIO OR SHALL BE RESPONSIBLE FOR ALL OF THE STORM WATER MANAGEMENT	
	STING DRAINAGE STRUCTURES WITHIN THE CONSTRUCTION LIMITS	5 SHALL BE	28. THE CUNTRACTOR SHALL SUBMIT A NATION		TION
LONG-TE FOLLOW MIX SH PER AC	DISTURBED AREAS NOT SODDED SHALL BE SEEDED WITH A MIXTERM VEGETATION AND QUICK GROWING SHORT-TERM VEGETATION F ING CONDITIONS. FOR THE MONTHS FROM SEPTEMBER THROUGH ALL CONSIST OF 70 POUNDS PER ACRE OF LONG-TERM SEED AND RE OF WINTER RYE. FOR THE MONTHS OF APRIL THROUGH AUGUS CONSIST OF 70 PER ACRE OF LONG-TERM SEED AND 20 POUNDS P	FOR THE MARCH, TH 20 POUNDS T, THE MI,	DETERMINE WHETHER THE IMPROVEMENTS WE WITH THE PLANS. A COPY OF THE AS-BUILT SU FORMAT) MUST BE SUBMITTED TO THE CITY OF	A SO THAT IMPROVEMENTS ARE BOUNDARY. THIS AS-BUILT SURVEY PROVIDE SUFFICIENT DETAILED DAT ERE CONSTRUCTED IN ACCORDANCE URVEY (IN PAPER AND DIGITAL AUTO	A TO DCAD
	SLOPES OF THE STORMWATER BASIN SHALL BE GRASSED. ALL S R THAN 3:1 SHALL BE STAPLED SOD.	LOPES	NOTIFICATION TO THE CITY AND CITY ENGINEE 27. CONTRACTOR SHALL PROVIDE AN AS-BUILT	ER. SURVEY MEETING THE REQUIREMEN	
	E STORMWATER BASIN IS DESIGNED IN ACCORDANCE WITH SRWMD DOK VOLUME II AND 62-330 F.A.C.	) APPLICAN	WITNESSED BY THE CITY'S REPRESENTATIVE		
COMPON ESTABL	NTATION CONTROL PLAN PRIOR TO ANY EARTH DISTURBING ACTIVI ENTS SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL ALL VEG ISHED, THE ENTIRE PROJECT AREA IS STABILIZED AND THE OWN ED OPERATION AND MAINTENANCE.	ETATION I.			۶
COLUMB 6. THE	E SITE IS LOCATED IN SECTION 7, TOWNSHIP 3 SOUTH, RANGE 17 IA COUNTY, FLORIDA. E CONTRACTOR SHALL IMPLEMENT ALL COMPONENTS OF THE EROSI	ION AND	23. THE CONTRACTOR SHALL SUBMIT A NOTICE THE WATER MANAGEMENT DISTRICT AT LEAST CONSTRUCTION.		
PROTEC NOT BE	PUBLIC LAND CORNER WITHIN THE LIMITS OF CONSTRUCTION SH TED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYE EN PROPERLY REFERENCED, THE CONTRACTOR SHOULD NOTIFY TH	D AND HAS E ENGINEE		AT LEAST 48 HOURS PRIOR TO	
MANNEF ACCESS	E CONTRACTOR SHALL MAINTAIN THE CONSTRUCTION SITE IN A SE R. ALL OPEN TRENCHES AND EXCAVATED AREAS SHALL BE PROTEC BY THE GENERAL PUBLIC.	CTED FROM			
PROTEC ENVIRO	TION DRINKING WATER FACILITY PERMIT, AND FLORIDA DEPARTME NMENTAL PROTECTION DOMESTIC WASTEWATER COLLECTION/TRANS	ENT OF	SPECIFICATIONS PREPARED BY NORTH FLORID 20. A PRE-CONSTRUCTION MEETING WITH THE AUTHORITY (GLCRUA) PROJECT INSPECTOR IS F CONSTRUCTION.	GREATER LAKE CITY REGIONAL UTIL	.ITY
ISSUED SELF-C ENVIRO	E CONTRACTOR SHALL COMPLY WITH ALL CONDITIONS AS SET FORT FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION 10/2 ERTIFICATION, SUWANNEE RIVER WATER MANAGEMENT DISTRICT NMENTAL RESOURCE PERMIT, FLORIDA DEPARTMENT OF TRANSPOR YAY CONNECTION PERMIT, FLORIDA DEPARTMENT OF ENVIRONMENT.	RTATION	EDITION) AND THE F.D.O.T. STANDARD PLANS F (CURRENT EDITION), AWWA SPECIFICATIONS, A STANDARDS UNLESS OTHERWISE NOTED. 19. THIS PROJECT IS TO BE CONSTRUCTED IN	ND THE CITY OF XXXX DEVELOPMEN ACCORDANCE WITH THE	
THE JO ON THE SHOWN OF LAKE	B SITE TO ENSURE THAT ALL NEW WORK WILL FIT IN THE MANNER PLANS. SHOULD ANY CONDITIONS EXIST THAT ARE CONTRARY TO ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER A E CITY, FLORIDA (DEPARTMENT OF GROWTH MANAGEMENT) OF SUCH ENCES IMMEDIATELY AND PRIOR TO PROCEEDING WITH THE WORK	R INTENDE ) THOSE AND THE C H	D DEVIATIONS FROM THE PLANS SHALL BE APPR CONTINUING WORK.	OVED BY THE ENGINEER BEFORE ACCORDANCE WITH THE F.D.O.T.	
1. THE	E CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIM	ENSIONS A	T 17. CONTRACTOR SHALL PROVIDE ACTUAL INVE		

		ET 1
NOTES BELL ROAD		THE DEFICIAL BECORD OF THIS SHEET IS
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### WATER AND SEWER NOTES

1. ALL UTILITY CONSTRUCTION SHALL MEET THE TOWN OF FORT WHITE WATER AND WASTEWATER UTILITY STANDARDS.

2. THE CONTRACTOR SHALL MAINTAIN EXISTING WATER MAINS IN SERVICE DURING CONSTRUCTION. IN THE EVENT INTERRUPTIONS TO SERVICE ARE REQUIRED DURING CONSTRUCTION, SUCH INSTANCES SHALL BE MINIMIZED.

3. ALL NEW OR RELOCATED WATER MAINS THAT SERVE FIRE HYDRANTS AND ALL FIRE HYDRANT LEADS SHALL BE NO SMALLER THAN SIX INCHES IN DIAMETER. AUXILIARY VALVES SHALL BE PROVIDED ON ALL HYDRANT LEADS.

4. SUFFICIENT VALVES SHALL BE PROVIDED IN NEW AND RELOCATED WATER MAINS SO THAT INCONVENIENCE AND SANITARY HAZARDS WILL BE MINIMIZED DURING REPAIRS. (VALVES SHALL BE PLACED IN NO MORE THAN 500-FOOT INTERVALS IN COMMERCIAL DISTRICTS AND AT NO MORE THAN ONE-BLOCK OR 800-FOOT INTERVALS IN OTHER

32. NEW OR RELOCATED, UNDERGROUND WATER MAINS INCLUDED IN THIS PROJECT SHALL 21. ALL WATER PIPE AND PIPE FITTINGS INSTALLED UNDER THIS PROJECT SHALL BE COLOR HAVE A HORIZONTAL DISTANCE OF AT LEAST SIX AND TEN FEET IS PREFERED BETWEEN CODED OR MARKED IN ACCORDANCE WITH SUBPARAGRAPH 62-555.320(21)(B) 3. F.A.C., USING THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED BLUE AS A PREDOMINANT COLOR. (UNDERGROUND PLASTIC PIPE SHALL BE SOLID-WALL GRAVITY-TYPE SANITARY SEWER, EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT BLUE PIPE, WILL HAVE A CO-EXTRUDED BLUE EXTERNAL SKIN, OR WILL BE WHITE OR REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C. BLACK PIPE WITH BLUE STRIPES INCORPORATED INTO, OR APPLIED TO, THE PIPE WALL; AND UNDERGROUND METAL OR CONCRETE PIPE SHALL HAVE BLUE STRIPES APPLIED TO THE PIPE WALL. PIPE STRIPED DURING MANUFACTURING OF THE PIPE SHALL HAVE CONTINUOUS 33. THE HORIZONTAL SEPARATION DISTANCE BETWEEN WATER MAINS AND GRAVITY-TYPE STRIPES THAT RUN PARALLEL TO THE AXIS OF THE PIPE, THAT ARE LOCATED AT NO SANITARY SEWERS MAY BE REDUCED TO THREE FEET WHERE THE BOTTOM OF THE WATER GREATER THAN 90-DEGREE INTERVALS AROUND THE PIPE, AND THAT WILL REMAIN INTACT MAIN IS LAID AT LEAST TWELVE INCHES ABOVE THE TOP OF THE SEWER DURING AND AFTER INSTALLATION OF THE PIPE. IF TAPE OR PAINT IS USED TO STRIPE 34. A HORIZONTAL DISTANCE OF AT LEAST TEN FEET BETWEEN THE OUTSIDE OF THE PIPE DURING INSTALLATION OF PIPE, THE TAPE OR PAINT SHALL BE APPLIED IN A WATER MAIN AND ALL PARTS OF ANY EXISTING OR PROPOSED "ON-SITE SEWAGE TREATMENT CONTINUOUS LINE THAT RUNS PARALLEL TO THE AXIS OF THE PIPE AND THAT IS LOCATED ALONG THE TOP OF THE PIPE; FOR PIPE WITH AN INTERNAL DIAMETER OF 24 INCHES OR AND DISPOSAL SYSTEM." GREATER, TAPE OR PAINT WILL BE APPLIED IN CONTINUOUS LINES ALONG EACH SIDE OF THE PIPE AS WELL AS ALONG THE TOP OF THE PIPE. ABOVEGROUND PIPE SHALL BE

DISTRICTS.) 5. IF THERE ARE ANY NEW OR RELOCATED WATER MAINS THAT CROSS UNDER ANY SURFACE WATER, A MINIMUM COVER OF TWO FEET SHALL BE PROVIDED OVER THE WATER MAIN PIPE AT EACH SURFACE WATER CROSSING, AND IF THE SURFACE WATER IS GREATER THAN 15 FEET IN WIDTH, THE FOLLOWING FEATURES SHALL BE PROVIDED: (A) FLEXIBLE WATER TIGHT JOINTS FOR THE WATER MAIN PIPE AT THE CROSSING. (B) EASILY ACCESSIBLE VALVES LOCATED IN A MANHOLE, AND (C) PERMANENT TAPS ON EACH SIDE OF THE VALVE WITHIN THE MANHOLE TO ALLOW FOR SAMPLING AND INSERTION OF A SMALL METER TO DETERMINE LEAKAGE. 6. PROPER BACKFLOW-PREVENTION ASSEMBLIES/DEVICES SHALL BE PROVIDED IN ACCORDANCE WITH RULE 62-555.360, F.A.C., AND THE AWWA'S MANUAL M14, RECOMMENDED PRACTICE FOR BACKFLOW PREVENTION AND CROSS-CONNECTION CONTROL. 7. THIS PROJECT SHALL NOT INCLUDE ANY INTERCONNECTION BETWEEN PREVIOUSLY

SEPARATE PUBLIC WATER SYSTEMS THAT HAVE SEPARATE WATER SUPPLY SOURCES. (A SPECIFIC CONSTRUCTION PERMIT IS REQUIRED FOR SUCH AN INTERCONNECTION.)

22. SUFFICIENT VALVES SHALL BE PROVIDED ON NEW OR ALTERED WATER MAINS INCLUDED IS AT LEAST 12 INCHES ABOVE THE OTHER PIPELINE. NEW OR RELOCATED, UNDERGROUND 8. ALL NEW RELOCATED WATER LATERALS THAT CROSS ANY SANITARY SEWERS, STORM IN THIS PROJECT SO THAT INCONVENIENCE AND SANITARY HAZARDS WILL BE MINIMIZED SEWERS, FORCE MAINS, OR RECLAIMED WATER LINES SHALL CROSS ABOVE SUCH DURING REPAIRS. PIPELINES.

23. ALL FIRE HYDRANTS THAT WILL BE INSTALLED UNDER THIS PROJECT AND THAT WILL WATER MAIN IS AT LEAST 12 INCHES ABOVE THE OTHER PIPELINE. HAVE UNPLUGGED, UNDERGROUND DRAINS SHALL BE LOCATED AT LEAST THREE FEET FROM 36. AT THE UTILITY CROSSINGS DESCRIBED ABOVE, SEPARATION DISTANCE SHALL NOT ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, PIPELINE APPLY WHERE A WATER SERVICE PIPE CROSSES A SEWER PIPE, PROVIDED THE WATER CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610. F.A.C., OR CENTERLINE ON BOTH SIDES OF SUCH CROSSINGS WITH PIPE MATERIAL LISTED IN OF CHAPTER 62-610, F.A.C., OR VACUUM-TYPE SANITARY SEWER; OR PIPELINE CONVEYING FLORIDA BUILDING CODE SECTION 603.2. RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-10, F.A.C.; AND AT LEAST TEN FEET FROM ANY EXISTING OR PROPOSED "ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM."

9. COPPER TRACER WIRE SHALL BE PLACED ON ALL POTABLE WATER LINES AND WATER LATERALS. TRACER WIRE SHALL BE CONTINUOUS WITH NO INTERRUPTIONS. 10. LOCATOR BALLS SHALL BE PROVIDED AT END OF ALL WATER AND SANITARY SEWER LATERALS. THE LOCATOR BALLS SHALL BE SECURED TO THE LATERALS WITH A PLASTIC TIE STRAP. 11. WATER AND SANITARY SEWER LATERALS SHALL BE LEFT UNCOVERED UNTIL INSPECTED

PAINTED BLUE OR WILL BE COLOR-CODED OR MARKED LIKE UNDERGROUND PIPE.

VACUUM-TYPE SANITARY SEWER; CONVEYING RECLAIMED WATER REGULATED UNDER PART III SERVICE PIPE IS SLEEVED TO AT LEAST FIVE FEET HORIZONTALLY FROM THE SEWER PIPE 37. NEW OR ALTERED WATER MAINS THAT ARE INCLUDED IN THIS PROJECT AND THAT WILL BY THE ENGINEER OR THE ENGINEER'S INSPECTOR. CROSS ABOVE SURFACE WATER SHALL BE ADEQUATELY SUPPORTED AND ANCHORED, PROTECTED FROM DAMAGE AND FREEZING, AND ACCESSIBLE FOR REPAIR OR REPLACEMENT 24. NEW OR ALTERED CHAMBERS, PITS, OR MANHOLES THAT CONTAIN VALVES, BLOW-OFFS,

12. CONTRACTOR SHALL PROVIDE TEMPORARY STAKES (2" BY 2" WOODEN STAKES) AT THE METERS, OR OTHER SUCH WATER DISTRIBUTION SYSTEM APPURTENANCES AND THAT ARE END OF EACH LATERAL. EACH STAKE SHALL INDICATE EITHER WATER OR SANITARY SEWER INCLUDED IN THIS PROJECT WILL NOT BE CONNECTED DIRECTLY TO ANY SANITARY OR LATERAL. CONTRACTOR SHALL MAINTAIN THE STAKES UNTIL AN AS-BUILT SURVEY OF STORM SEWER, AND BLOW-OFFS OR AIR RELIEF VALVES INSTALLED UNDER THIS PROJECT WATER AND SANITARY SEWER MAINS AND LATERALS ARE COMPLETE AND APPROVED BY THE SHALL NOT BE CONNECTED DIRECTLY TO ANY SANITARY OR STORM SEWER. ENGINEER.

25. NEW OR ALTERED WATER MAINS INCLUDED IN THIS PROJECT SHALL BE INSTALLED IN 13. MEGALUG MECHANICAL JOINT RESTRAINTS OR SERIES 1390 UNI-FLANGE BLOCK BUSTER ACCORDANCE WITH APPLICABLE AWWA STANDARDS OR IN ACCORDANCE WITH RESTRAINT DEVICES SHALL BE USED WITH MANUFACTURER'S RECOMMENDATIONS. ALL MANUFACTURERS' RECOMMENDED PROCEDURES. RESTRAINED JOINTING MUST BE LEFT OPEN UNTIL VIEWED BY THE CITY INSPECTOR.

26. A CONTINUOUS AND UNIFORM BEDDING SHALL BE PROVIDED IN TRENCHES FOR 14. FOR SANITARY SEWER PERFORM HYDROSTATIC TEST. ALLOWABLE LEAKAGE IS A UNDERGROUND PIPE INSTALLED UNDER THIS PROJECT; BACKFILL MATERIAL WILL BE MAXIMUM OF 50 GAL. PER INCH OF NOMINAL PIPE SIZE PER MILE OF PIPE, DURING A TAMPED IN LAYERS AROUND UNDERGROUND PIPE INSTALLED UNDER THIS PROJECT AND TO 24-HOUR PERIOD. OPTION: TEST DUCTILE-IRON PIPING ACCORDING TO AWWA C600, SECTION A SUFFICIENT HEIGHT ABOVE THE PIPE TO ADEQUATELY SUPPORT AND PROTECT THE PIPE; 39. CONTRACTOR SHALL PROVIDE AN AS-BUILT SURVEY MEETING THE REQUIREMENTS OF "HYDROSTATIC TESTING". USE TEST PRESSURE OF AT LEAST 10 PSI. FOR SANITARY AND UNSUITABLY SIZED STONES (AS DESCRIBED IN APPLICABLE AWWA STANDARDS OR SEWERAGE, PERFORM AIR TEST ACCORDING TO UNI-B-6. MANUFACTURERS' RECOMMENDED INSTALLATION PROCEDURES) FOUND IN TRENCHES WILL BE SEWER MAIN EXTENSIONS. INCLUDE HORIZONTAL AND VERTICAL DIMENSIONAL DATA SO REMOVED FOR A DEPTH OF AT LEAST SIX INCHES BELOW THE BOTTOM OF UNDERGROUND 15. FOR SANITARY SEWERAGE ALIGNMENT: EACH SECTION OF THE COMPLETED SEWER PIPE INSTALLED UNDER THIS PROJECT.

SYSTEM SHALL BE INSPECTED FOR PROPER ALIGNMENT. INSPECTION SHALL CONSIST OF "LAMPING" FROM MANHOLE TO MANHOLE. ANY SECTION OF THE SEWER SYSTEM, WHICH 27. ALL WATER MAIN TEES, BENDS, PLUGS, AND HYDRANTS INSTALLED UNDER THIS DOES NOT DISPLAY TRUE, CONCENTRIC ALIGNMENT, SHALL BE INSTALLED AT NO ADDITIONAL PROJECT SHALL BE PROVIDED WITH RESTRAINED JOINTS TO PREVENT MOVEMENT. EXPENSE TO THE OWNER.

28. NEW OR ALTERED WATER MAINS THAT ARE INCLUDED IN THIS PROJECT AND THAT WILL 16. CLEAN AND DISINFECT WATER DISTRIBUTION PIPING SYSTEMS AND PARTS OF EXISTING BE CONSTRUCTED OF ASBESTOS-CEMENT OR POLYVINYL CHLORIDE PIPE SHALL BE SYSTEMS THAT HAVE BEEN ALTERED, EXTENDED OR REPAIRED BEFORE USE. USE PURGING PRESSURE AND LEAKAGE TESTED IN ACCORDANCE WITH AWWA STANDARD C603 OR C605, AND DISINFECTING PROCEDURE PRESCRIBED BY AUTHORITIES HAVING JURISDICTION OR RESPECTIVELY, AS INCORPORATED INTO RULE 62-555.330, F.A.C., AND ALL OTHER NEW OR USE PROCEDURE PRESCRIBED BY AUTHORITIES HAVING JURISDICTION OR USE PROCEDURE ALTERED WATER MAINS INCLUDED IN THIS PROJECT SHALL BE PRESSURE AND LEAKAGE DESCRIBED IN AWWA C651. TESTED IN ACCORDANCE WITH AWWA STANDARD C600 AS INCORPORATED INTO RULE 62-555.330.

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		TANFPS:	LAKE CITY, FL 32056	TALLAHASSEE, FL 32301	TERRY R. WHITE, JR	ł.	
		To S/ONAL SERVICE	PH. 386-752-4675	WWW.NFPS.NET	P.E. NO.:		COLU
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17. PVC GRAVITY FLOW SEWER PIPE AND FITTINGS 15 INCH AND SMALLER IN DIAMETER SHALL BE SDR35 PIPE WITH BELL AND SPIGOT GASKET JOINT THAT COMPLIES WITH THE REQUIREMENTS OF ASTM D3034.

18. ALL PIPE, PIPE FITTINGS, PIPE JOINT PACKING AND JOINTING MATERIALS, VALVES, FIRE HYDRANTS, AND METERS INSTALLED UNDER THIS PROJECT SHALL CONFORM TO APPLICABLE AMERICAN WATER WORKS ASSOCIATION (AWWA) STANDARDS.

19. ALL PUBLIC WATER SYSTEM COMPONENTS, EXCLUDING FIRE HYDRANTS, THAT WILL BE INSTALLED UNDER THIS PROJECT AND THAT WILL COME INTO CONTACT WITH DRINKING WATER SHALL CONFORM TO NSF INTERNATIONAL STANDARD 61 AS ADOPTED IN RULE 62-555.335, F.A.C., OR OTHER APPLICABLE STANDARDS, REGULATIONS, OR REQUIREMENTS REFERENCED IN PARAGRAPH 62- 555.320(3)(B), F.A.C.

20. ALL PIPE AND PIPE FITTINGS INSTALLED UNDER THIS PROJECT SHALL CONTAIN NO MORE THAN 8.0% LEAD, AND ANY SOLDER OR FLUX USED IN THIS PROJECT WILL CONTAIN NO MORE THAN 0.2% LEAD.

29. NEW OR ALTERED WATER MAINS, INCLUDING FIRE HYDRANT LEADS AND INCLUDING SERVICE LINES THAT WILL BE UNDER THE CONTROL OF A PUBLIC WATER SYSTEM AND THAT HAVE AN INSIDE DIAMETER OF THREE INCHES OR GREATER, SHALL BE DISINFECTED AND BACTERIOLOGICALLY EVALUATED IN ACCORDANCE WITH RULE 62-555.340, F.A.C.

30. NEW OR ALTERED WATER MAINS THAT ARE INCLUDED IN THIS PROJECT AND THAT WILL BE INSTALLED IN AREAS WHERE THERE ARE KNOWN AGGRESSIVE SOIL CONDITIONS SHALL BE PROTECTED THROUGH USE OF CORROSION-RESISTANT WATER MAIN MATERIALS, THROUGH ENCASEMENT OF THE WATER MAINS IN POLYETHYLENE, OR THROUGH PROVISION OF CATHODIC PROTECTION.

31. NEW OR RELOCATED, UNDERGROUND WATER MAINS INCLUDED IN THIS PROJECT SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER, STORM SEWER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610. F.A.C.

35. NEW OR RELOCATED, UNDERGROUND WATER MAINS THAT ARE INCLUDED IN THIS PROJECT AND THAT WILL CROSS ANY EXISTING OR PROPOSED GRAVITY- OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN WATER MAINS THAT ARE INCLUDED IN THIS PROJECT AND THAT WILL CROSS ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER OR STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER WILL BE LAID SO THE OUTSIDE OF THE

38. NEW OR ALTERED WATER MAINS THAT ARE INCLUDED IN THIS PROJECT AND THAT WILL CROSS UNDER SURFACE WATER COURSES GREATER THAN 15 FEET IN WIDTH SHALL HAVE FLEXIBLE OR RESTRAINED, WATERTIGHT PIPE JOINTS AND WILL INCLUDE VALVES AT BOTH ENDS OF THE WATER CROSSING SO THE UNDERWATER MAIN CAN BE ISOLATED FOR TESTING AND REPAIR; THE AFOREMENTIONED ISOLATION VALVES WILL BE EASILY ACCESSIBLE AND WILL NOT BE SUBJECT TO FLOODING; THE ISOLATION VALVE CLOSEST TO THE WATER SUPPLY SOURCE WILL BE IN A MANHOLE; AND PERMANENT TAPS WILL BE PROVIDED ON EACH SIDE OF THE ISOLATION VALVE WITHIN THE MANHOLE TO ALLOW FOR INSERTION OF A SMALL METER TO DETERMINE LEAKAGE FROM THE UNDERWATER MAIN AND TO ALLOW FOR SAMPLING OF WATER FROM THE UNDERWATER MAIN.

CHAPTER 61G17 F.A.C. FOR THE POTABLE WATER MAIN EXTENSION AND THE SANITARY THAT IMPROVEMENTS ARE LOCATED AND DELINEATED RELATIVE TO THE BOUNDARY PROVIDE SUFFICIENT DETAILED DATA TO DETERMINE WHETHER THE IMPROVEMENTS WERE CONSTRUCTED IN ACCORDANCE WITH THE PLANS. A COPY OF THE AS-BUILT SURVEY (IN PAPER AND DIGITAL AUTOCAD FORMAT) MUST BE SUBMITTED TO THE CITY OF LAKE CITY, FLORIDA (DEPARTMENT OF GROWTH MANAGEMENT) AND THE ENGINEER.

40. CONTRACTOR SHALL PROVIDE POTABLE WATER TEST REPORTS IN ACCORDANCE WITH FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION REQUIREMENTS AFTER DISINFECTION OF THE SYSTEM.

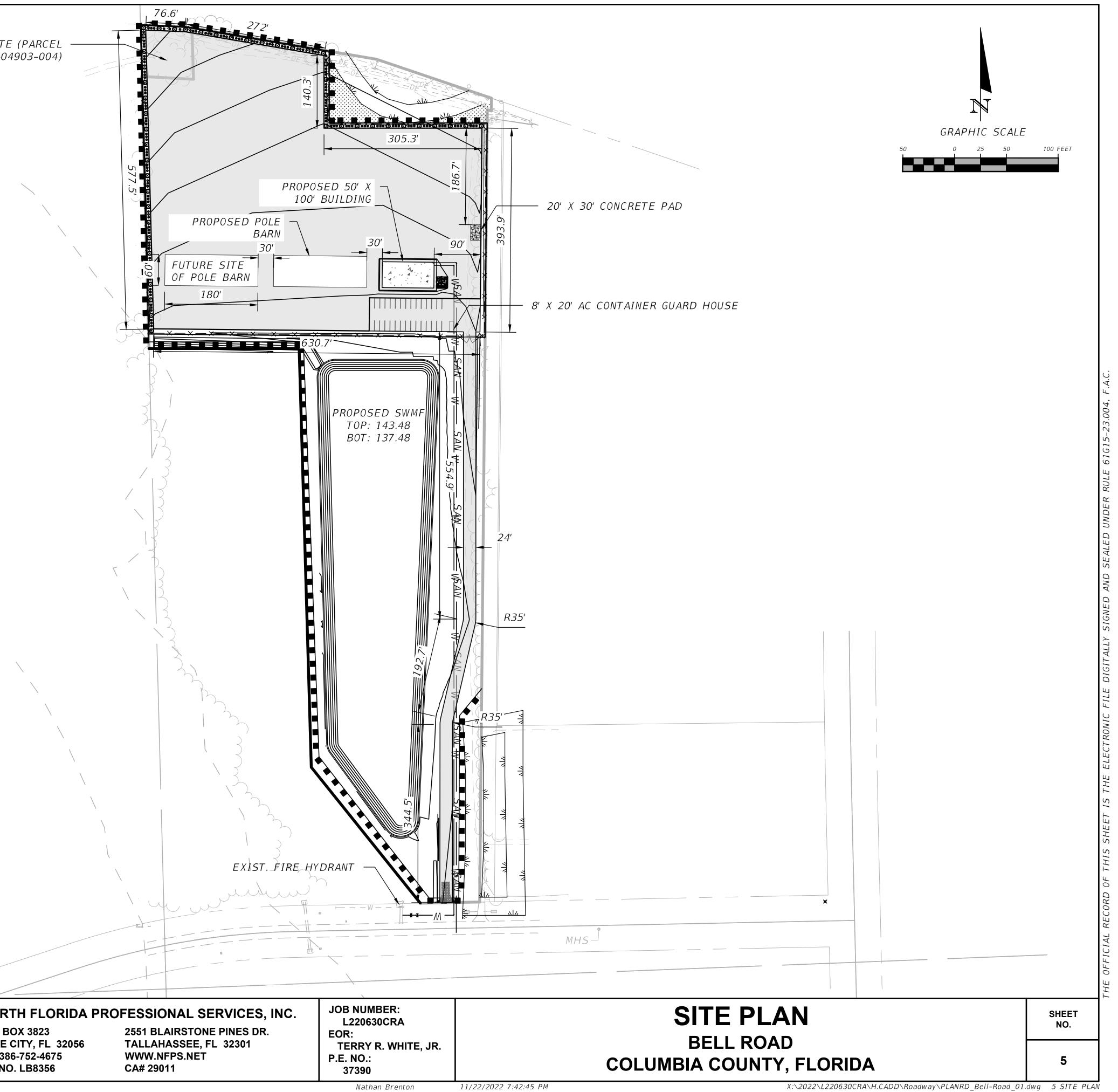
## ER & SEWER NOTES **BELL ROAD** JMBIA COUNTY, FLORIDA

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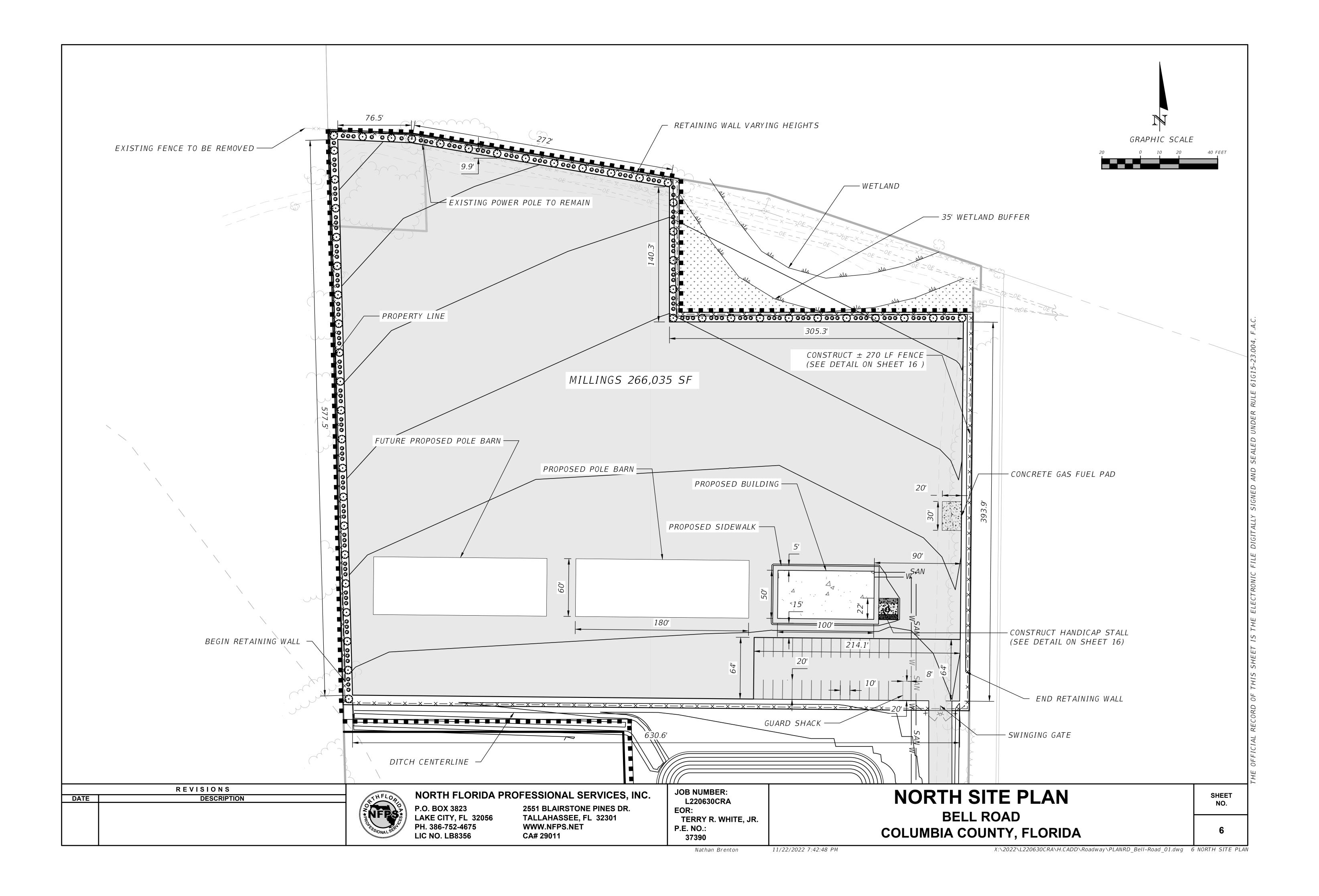
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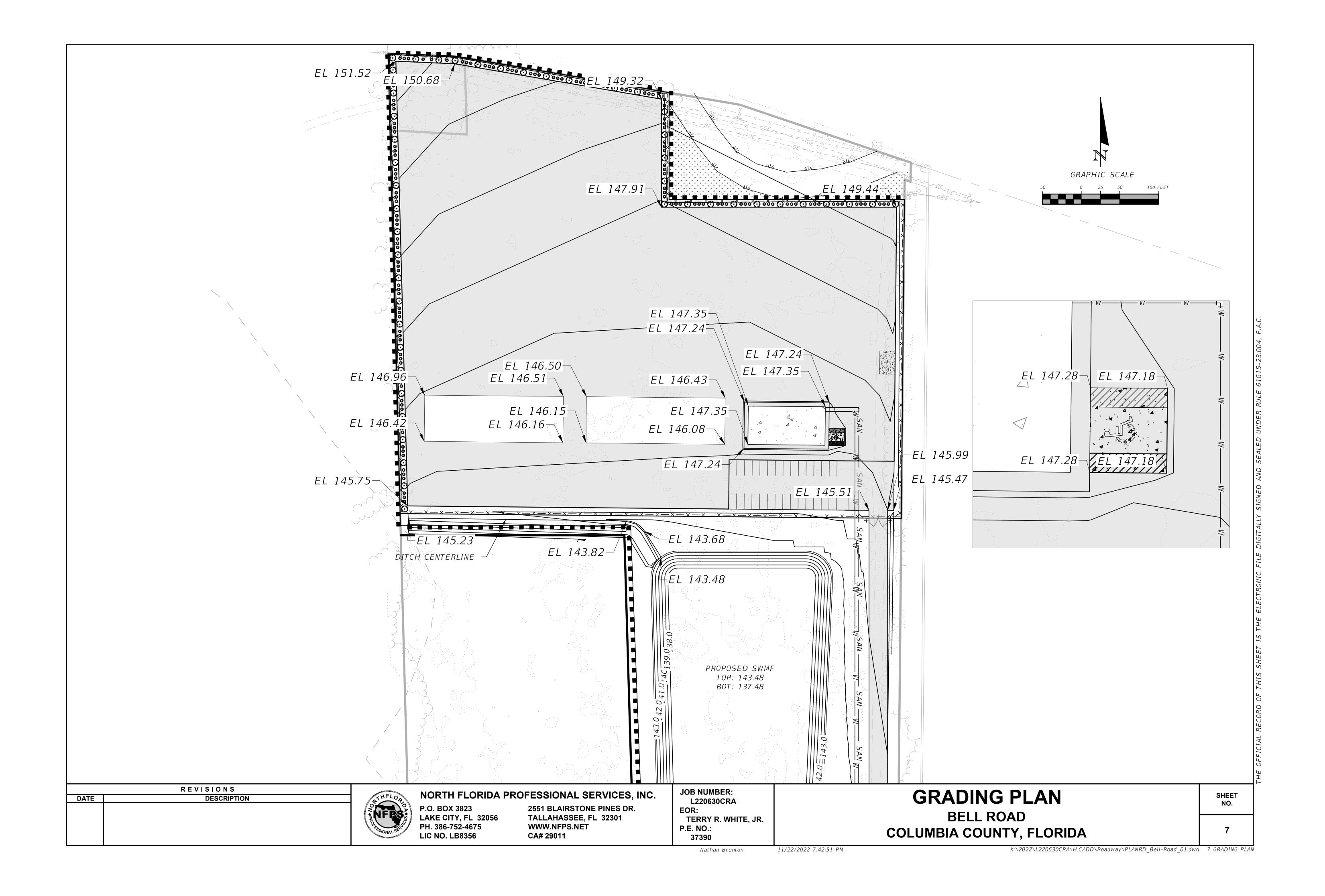
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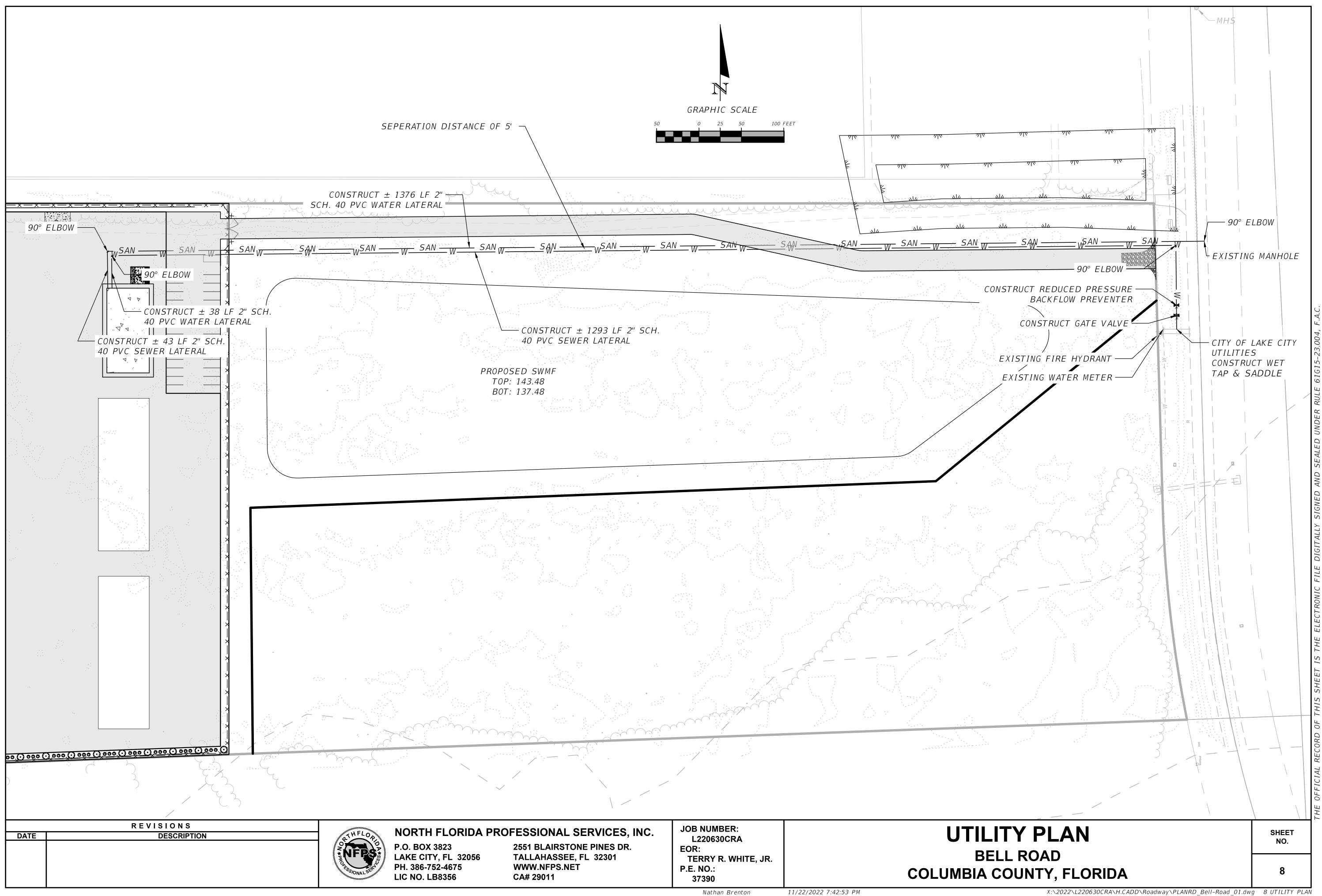


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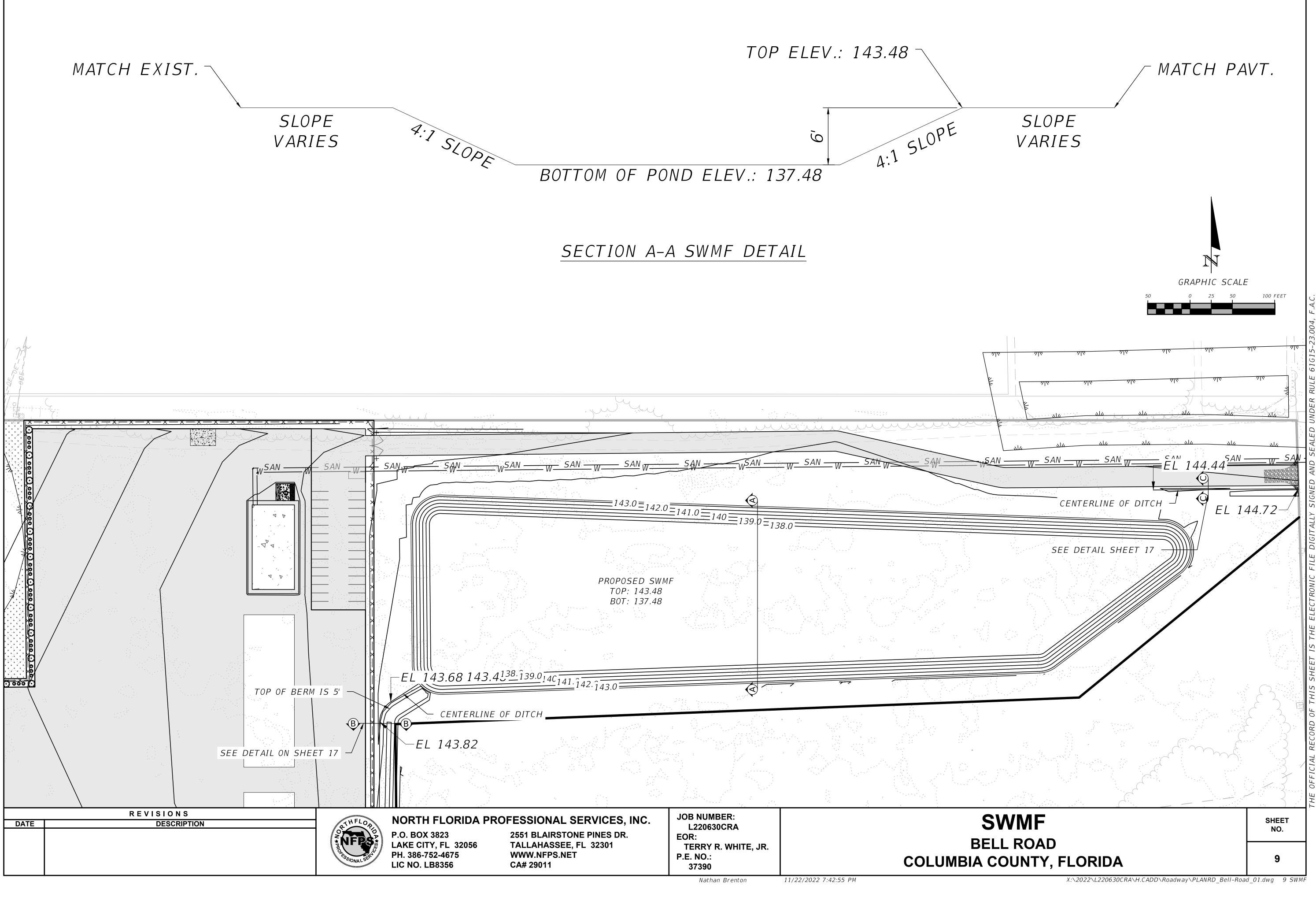
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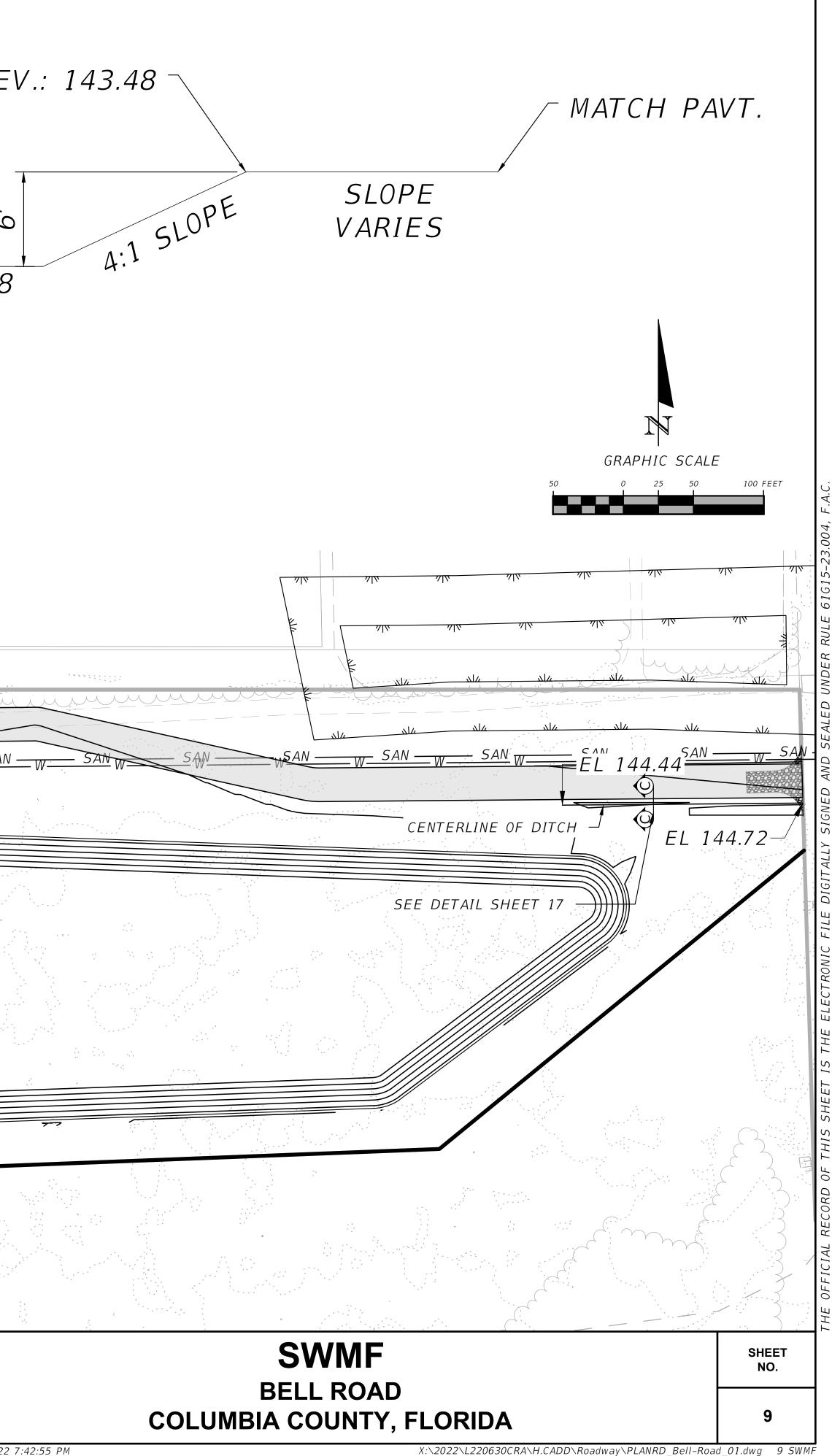




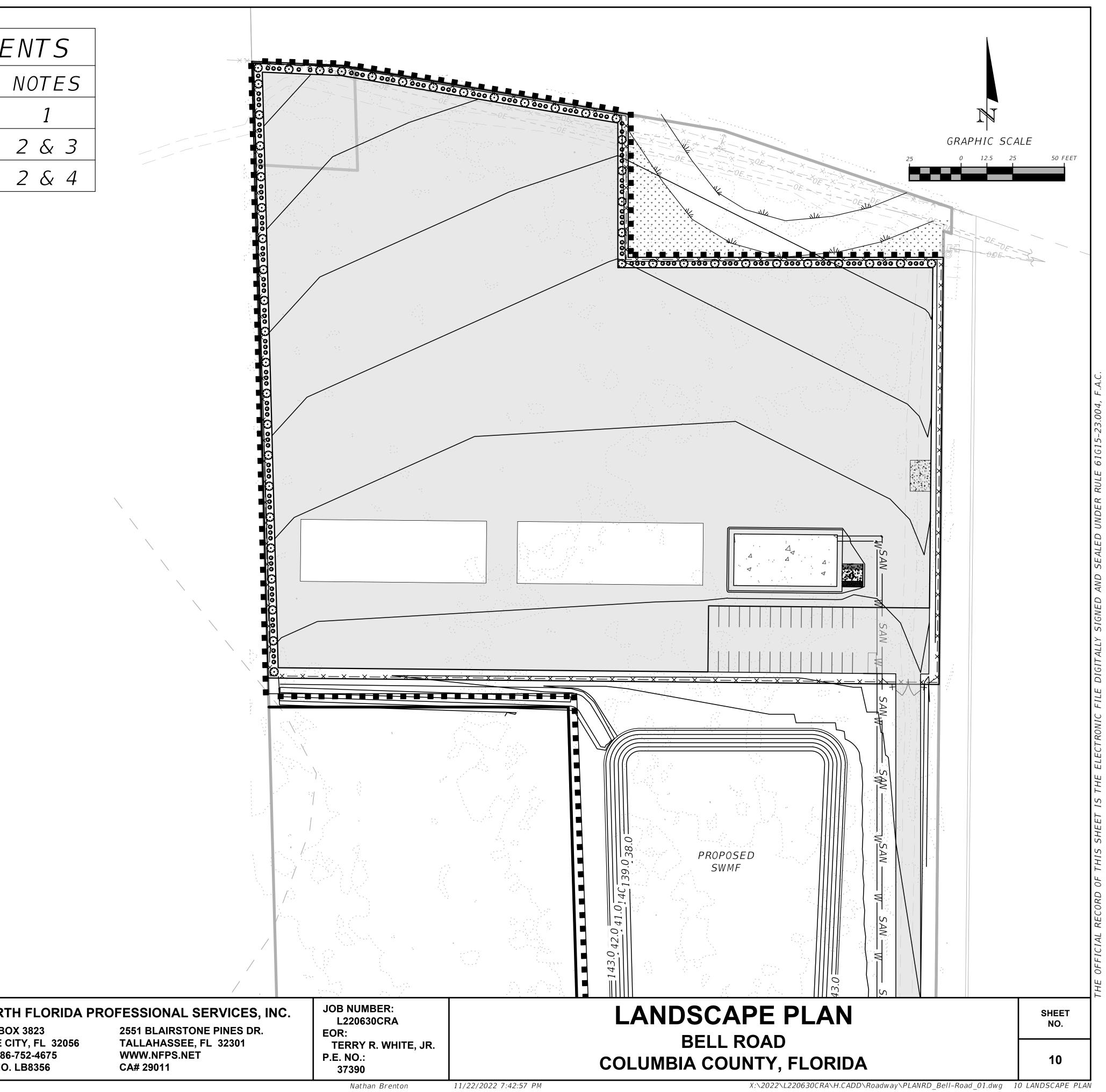


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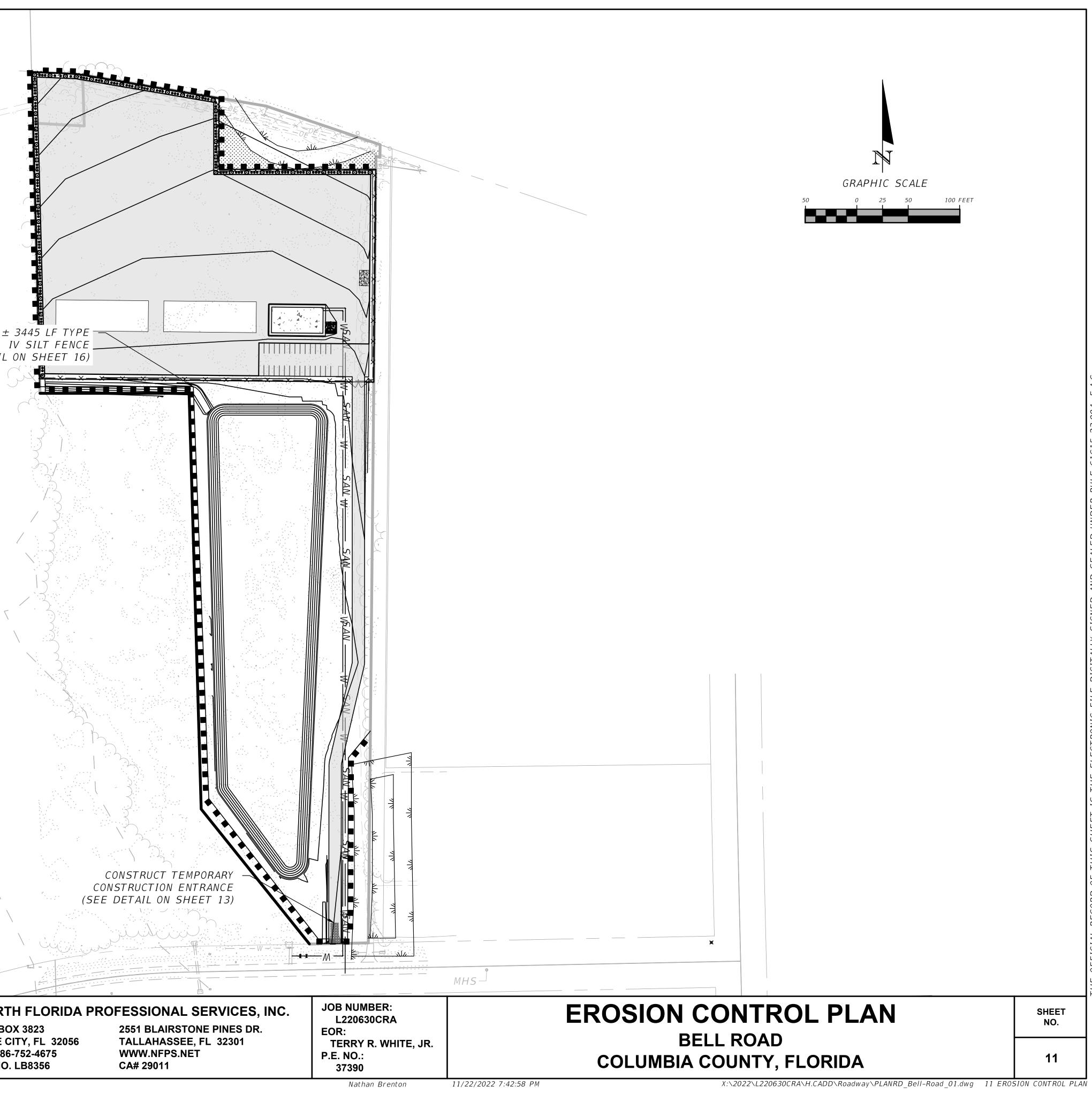




		) SHUBBERY RE	
		COMMON NAME	NO.
		GROUND COVER	N/A
		UNDERSTORY TREE	S N/A
		CANOPY TREES	N/A
2. 3. 4.	NATIVE GROUND TREES SHALL E HEIGHT IMMED UNDERSTORY TH FIG, SPARKLEBE SIMILAR NATIVE HEIGHT OF 8 F CANOPY TREES HICKORY, RED E WHICH OBTAIN TREES NOT PEF	BE A MINIMUM OF FOUR FEE IATELY AFTER PLANTING. REES MAY BE JUNIPER, BIF ERRY, CRAPE MYRTLE OR OT E SPECIES WHICH OBTAIN EET. MAY BE LIVE OAK, WHITE BAY, ASH OR SIMILAR NATI A MINUMUM HEIGHT OF 50	ET OVERALL RCH REDBUD, THER A MINIMUM OAK, MAPLE, VE SPECIES
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### EROSION CONTROL NOTES

1. THIS EROSION AND SEDIMENTATION CONTROL PLAN COMPLIES WITH THE REQUIREMENTS OF THE "FLORIDA DEVELOPMENT MANUAL" AND THE "FLORIDA EROSION AND SEDIMENT CONTROL INSPECTOR'S MANUAL".

2. THE CONTRACTOR SHALL ADHERE TO THE CITY OF LAKE CITY, SRWMD, AND OTHER GOVERNING AUTHORITIES FOR EROSION AND SEDIMENT CONTROL REGULATIONS. IF THE CONTRACTOR NEEDS TO CHANGE THIS PLAN TO MORE EFFECTIVELY CONTROL EROSION AND SEDIMENTATION, THE CONTRACTOR SHALL USE BMP'S FROM THE "FLORIDA EROSION AND SEDIMENT CONTROL INSPECTOR'S MANUAL".

3. THE CONTRACTOR SHALL ADJUST AND REVISE THIS PLAN TO MEET ACTUAL FIELD CONDITIONS. ANY REVISIONS SHALL BE APPROVED BY THE REVIEWING AGENCIES.

4. SEDIMENT AND EROSION CONTROL FACILITIES, STORM DRAINAGE FACILITIES AND DETENTION BASINS SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION.

5. EROSION CONTROL MEASURES SHALL BE INSPECTED WEEKLY AND AFTER EACH RAINFALL OF 0.5 INCHES OR GREATER, AND REPAIRED OR REPLACED AS NECESSARY.

6. SEDIMENT AND EROSION CONTROL MEASURES SHALL NOT BE REMOVED UNTIL ALL CONSTRUCTION IS COMPLETE AND UNTIL A PERMANENT GROUND COVER HAS BEEN ESTABLISHED.

7. ALL OPEN DRAINAGE SWALES SHALL BE GRASSED AND RIPRAP SHALL BE PLACED AS REQUIRED TO CONTROL EROSION.

8. SILT FENCES SHALL BE LOCATED ON SITE TO PREVENT SEDIMENT AND EROSION FROM LEAVING PROJECT LIMITS.

9. CONTRACTOR SHALL PLACE A DOUBLE ROW OF SILT FENCE IN AREAS WHERE RUNOFF FROM DISTURBED AREAS MAY ENTER WETLANDS.

10. DURING CONSTRUCTION AND AFTER CONSTRUCTION IS COMPLETE, ALL STRUCTURES SHALL BE CLEANED OF ALL DEBRIS AND EXCESS SEDIMENT.

11. ALL GRADED AREAS SHALL BE STABILIZED IMMEDIATELY WITH A TEMPORARY FAST-GROWING COVER AND/OR MULCH.

12. A PAD OF RUBBLE RIP RAP SHALL BE PLACED AT THE BOTTOM OF ALL COLLECTION FLUMES AND COLLECTION PIPE OUTLETS. GRANITE OR LIMESTONE RIPRAP IS REQUIRED, NO BROKEN CONCRETE WILL BE ACCEPTED.

13. ALL SIDE SLOPES STEEPER THAN 3:1 SHALL BE ADEQUATELY PROTECTED FROM EROSION THROUGH THE USE OF SYNTHETIC BALES OR SODDING.

14. ALL STABILIZATION PRACTICES SHALL BE INITIATED AS SOON AS PRACTICABLE IN AREAS OF THE JOB WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY STOPPED, BUT IN NO CASE SHALL THE DISTURBED AREA BE LEFT UNPROTECTED FOR MORE THAN SEVEN DAYS.

15. ALL WASTE GENERATED ON THE PROJECT SHALL BE DISPOSED OF BY THE CONTRACTOR IN AREAS PROVIDED BY CONTRACTOR.

16. LOADED HAUL TRUCKS SHALL BE COVERED WITH TARPS.

17. EXCESS DIRT SHALL BE REMOVED DAILY.

18. THIS PROJECT SHALL COMPLY WITH ALL WATER QUALITY STANDARDS. PERMIT REQUIRED FROM SRWMD HAS BEEN OBTAINED.

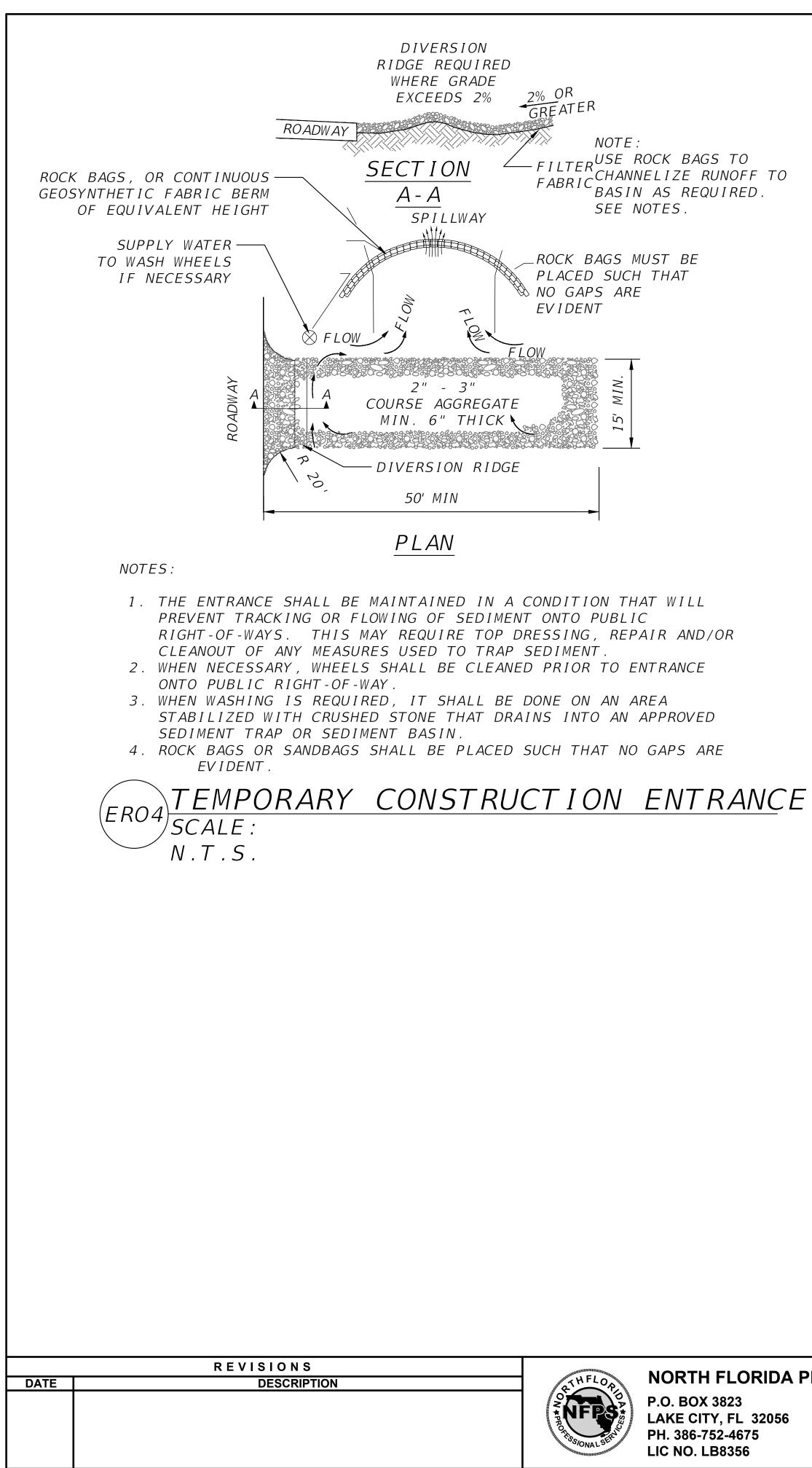
19. QUALIFIED PERSONNEL SHALL INSPECT THE AREA USED FOR STORAGE OF STOCKPILES, THE SILT FENCE AND STRAW BALES, THE LOCATION WHERE VEHICLES ENTER OR EXIT THE SITE, AND THE DISTURBED AREAS THAT HAVE NOT BEEN FINALLY STABILIZED, AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM OF 0.5 INCHES OR GREATER.

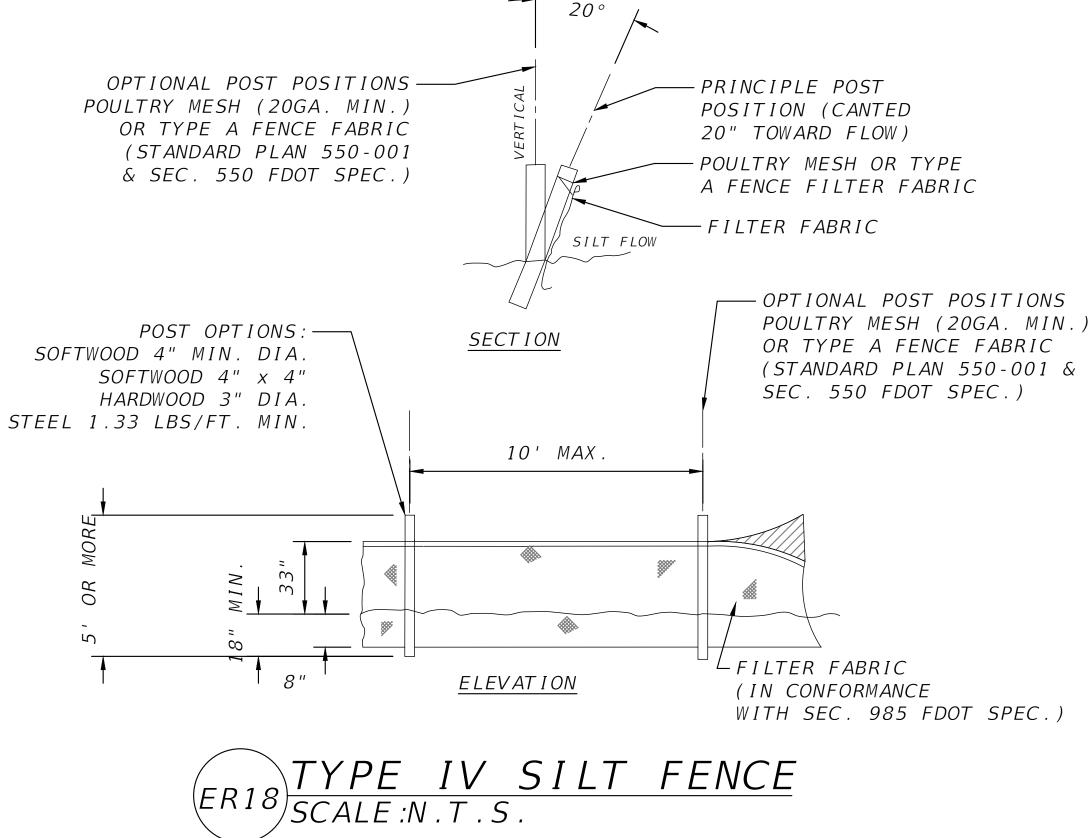
20. SITES THAT HAVE BEEN FINALLY STABILIZED WITH SOD OR GRASSING SHALL BE INSPECTED AT LEAST ONCE EVERY WEEK.

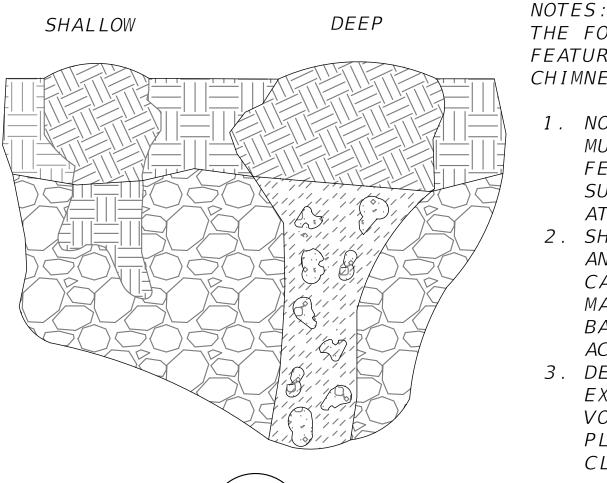
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**JOB NUMBER:** ER TH FLORIDA PROFESSIONAL SERVICES, INC. L220630CRA OX 3823 2551 BLAIRSTONE PINES DR. EOR: CITY, FL 32056 TALLAHASSEE, FL 32301 TERRY R. WHITE, JR. 86-752-4675 WWW.NFPS.NET P.E. NO.: COLUN D. LB8356 CA# 29011 37390 11/22/2022 7:42:59 PM Nathan Brenton

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## N CONTROL DETAILS **BELL ROAD** JMBIA COUNTY, FLORIDA

13

## KARST FEATURE REPAIR DETAIL

2. SHALLOW KARST FEATURES ARE TYPICALLY LESS THAN 5' DEEP AND ONLY HAVE SMALL VOIDS IN THE LIMESTONE. THE FEATURE CAN BE REPAIRED BY BACKFILLING WITH A LOWER PERMEABILITY MATERIAL SUCH AS CLAYEY-SAND OR CLAY. COMPACT THE BACKFILL AND CREATE A SMALL MOUND SLIGHTLY ABOVE GRADE TO ACCOUNT FOR SETTLING. 3. DEEP KARST FEATURES SHALL BE REPAIRED MORE PERMANENTLY. EXCAVATE THE FEATURE TO THE LIMESTONE BEDROCK. PLUG VOIDS IN THE BEDROCK WITH CLEAN GROUT. BACKFILL OVER THE PLUG WITH A LOWER-PERMEABILITY MATERIAL SUCH AS CLAYEY-SAND OR CLAY. COMPACT THE BACKFILL TO GRADE.

1. NOTIFY THE WATER MANAGEMENT DISTRICT AND THE APPLICABLE MUNICIPAL OR COUNTY PUBLIC WORKS IMMEDIATELY WHEN THE FEATURES ARE ENCOUNTERED. THE METHOD OF REPAIR SHALL BE SUBMITTED FOR REVIEW, COMMENT, AND APPROVAL PRIOR TO ATTEMPTING ANY REPAIR.

THE FOLLOWING SHALL BE PERFORMED IN THE EVENT ANY KARST FEATURES FORM DURING CONSTRUCTION - E.G. SOLUTION CAVITIES, CHIMNEYS, SINKHOLES.

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	NOTES: DUAL CHECK BACKFLOW PRE	EVENTER	
	1. P.E. TUBING IS TO BE		
	BACKFILLED BY HAND UP		
	TO THE TOP OF THE SERVICE.		
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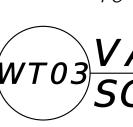
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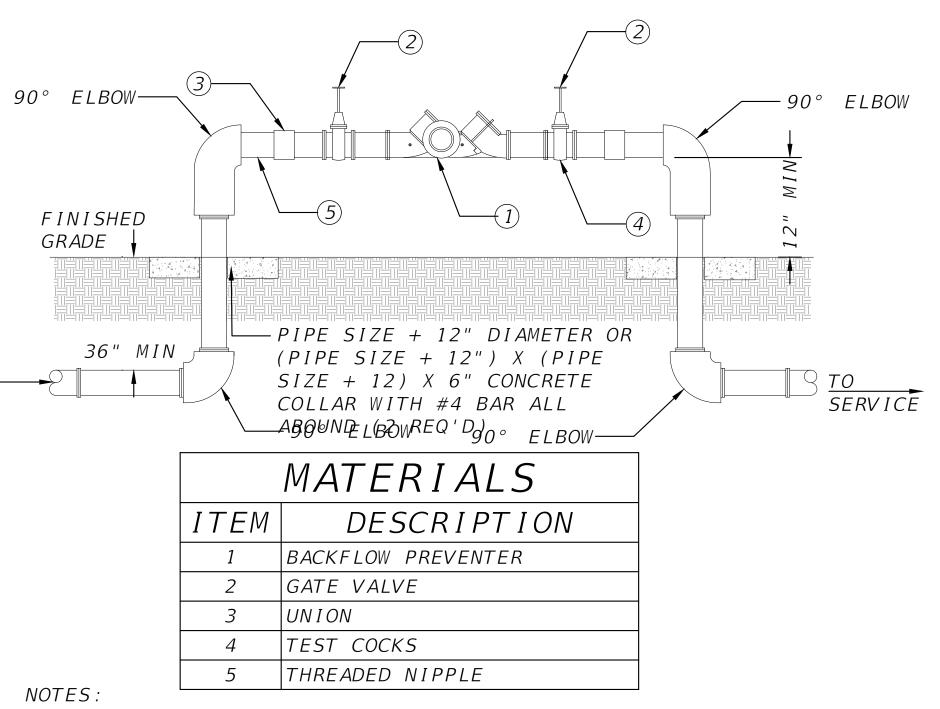
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NOTES:

1. PVC EXTENSIONS SHALL NOT BE USED ON VALVE BOX INSTALLATION. 2. THE ACTUATING NUT FOR DEEPER VALVES SHALL BE EXTENDED TO COME UP TO 4 FOOT DEPTH BELOW FINISHED GRADE.

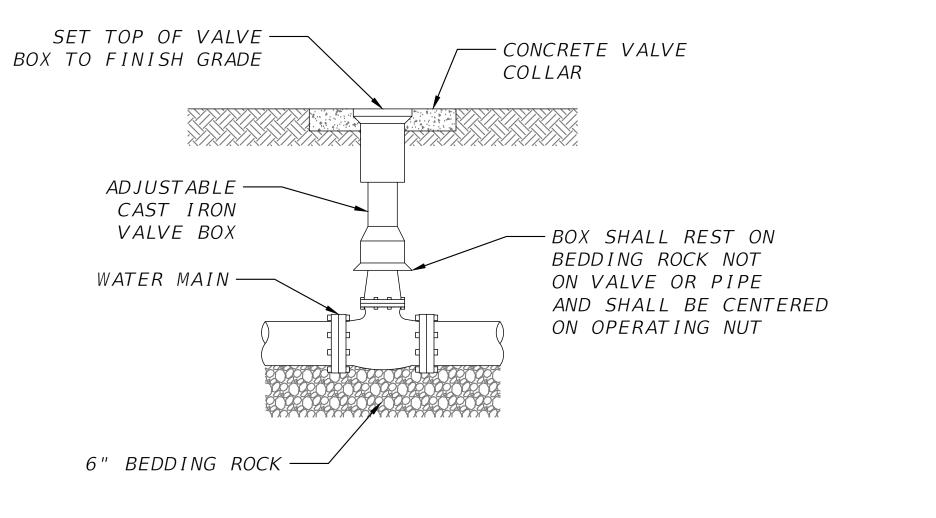




- 1. UNDER NO CONDITION WILL ANY CONNECTION BE ALLOWED BETWEEN THE SERVICE METER AND A BACKFLOW PREVENTER USED FOR SYSTEM CONTAINMENT. BACKFLOW PREVENTER SHALL ALWAYS BE INSTALLED DOWNSTREAM OF METER.
- 2. IF A PRESSURE MONITOR IS TO BE INSTALLED, ADD A TEE, VALVE FITTINGS,
- AND MOUNT ON SUPPLY SIDE PRIOR TO BACKFLOW PREVENTION DEVICE: UNDER NO CIRCUMSTANCE, SHALL TEST PORTS BE MODIFIED OR
- UTILIZED FOR THIS OR OTHER APPLICATION OTHER THAN BACKFLOW DEVICE
- TESTING.
- 3. A CONBRACO SERIES 40-000 FREEZE PROTECTION VALVE SHALL BE INCLUDED.
- 4. PROVIDE AND INSTALL COVER OVER BACKFLOW PREVENTER AS REQ'D BY LOCAL AUTHORITIES.

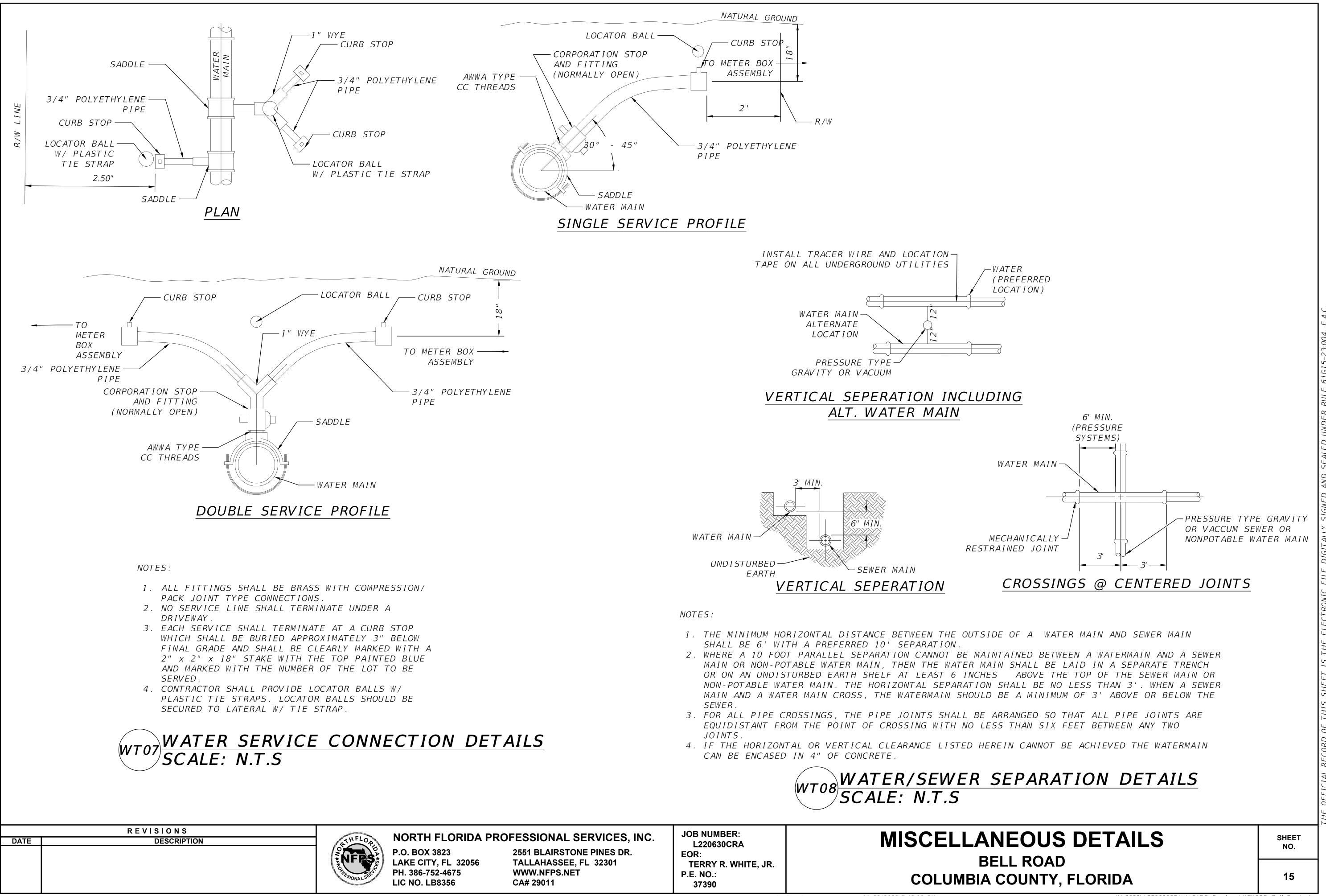
## WT05 REDUCED PRESSURE BACKFLOW PREVENTER SCALE: N.T.S

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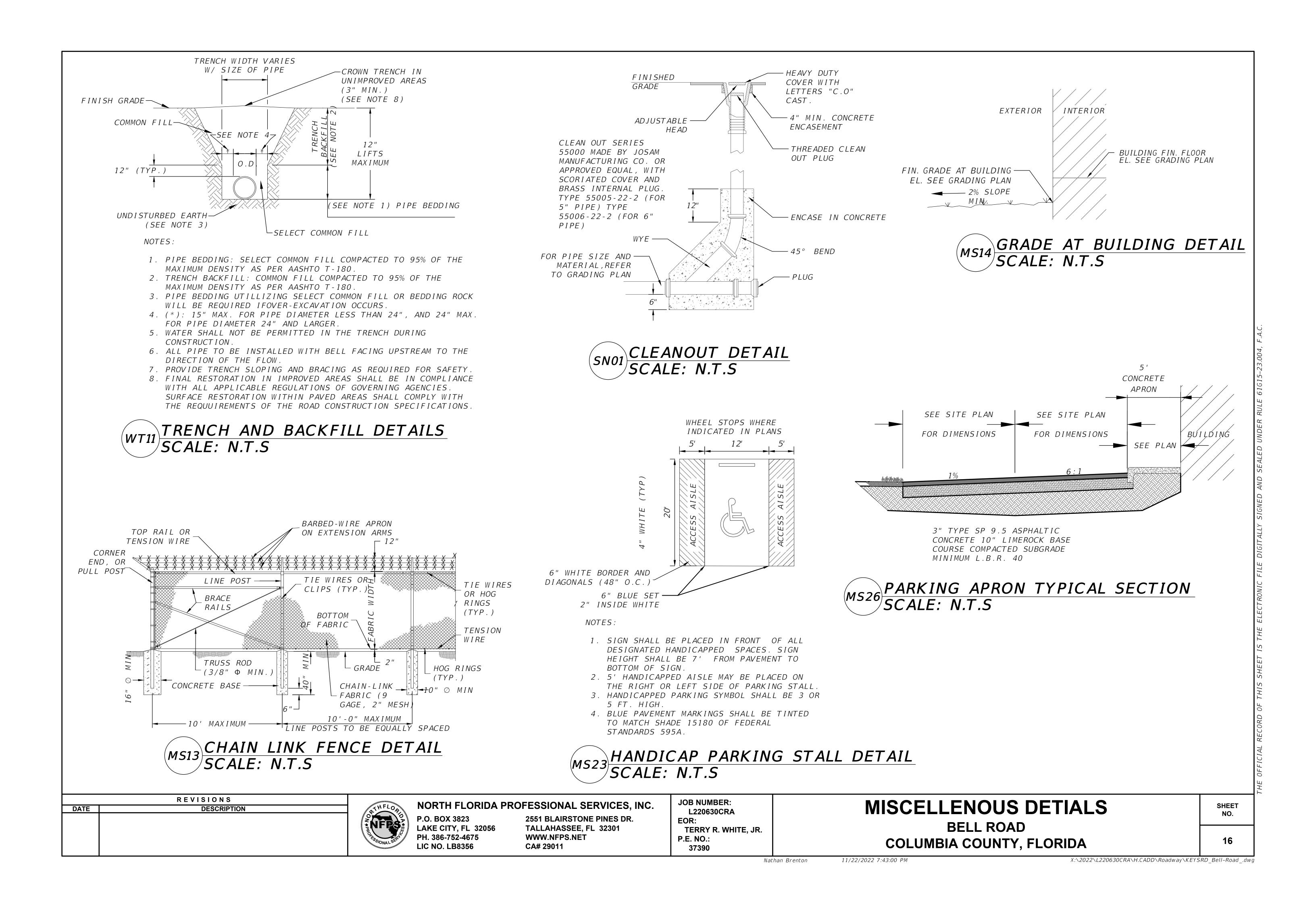
## WT03 VALVE AND BOX DETAIL SCALE: N.T.S

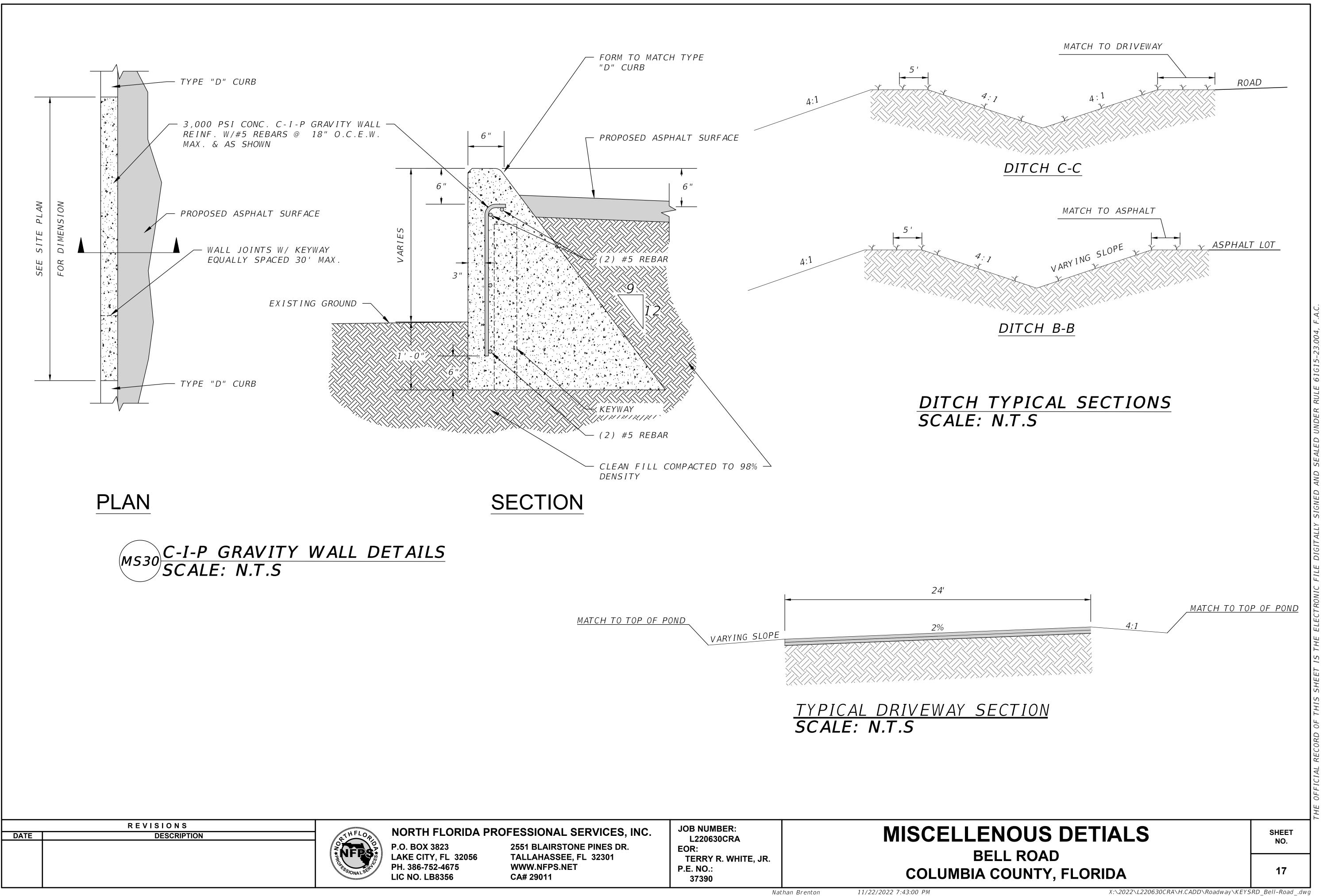
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