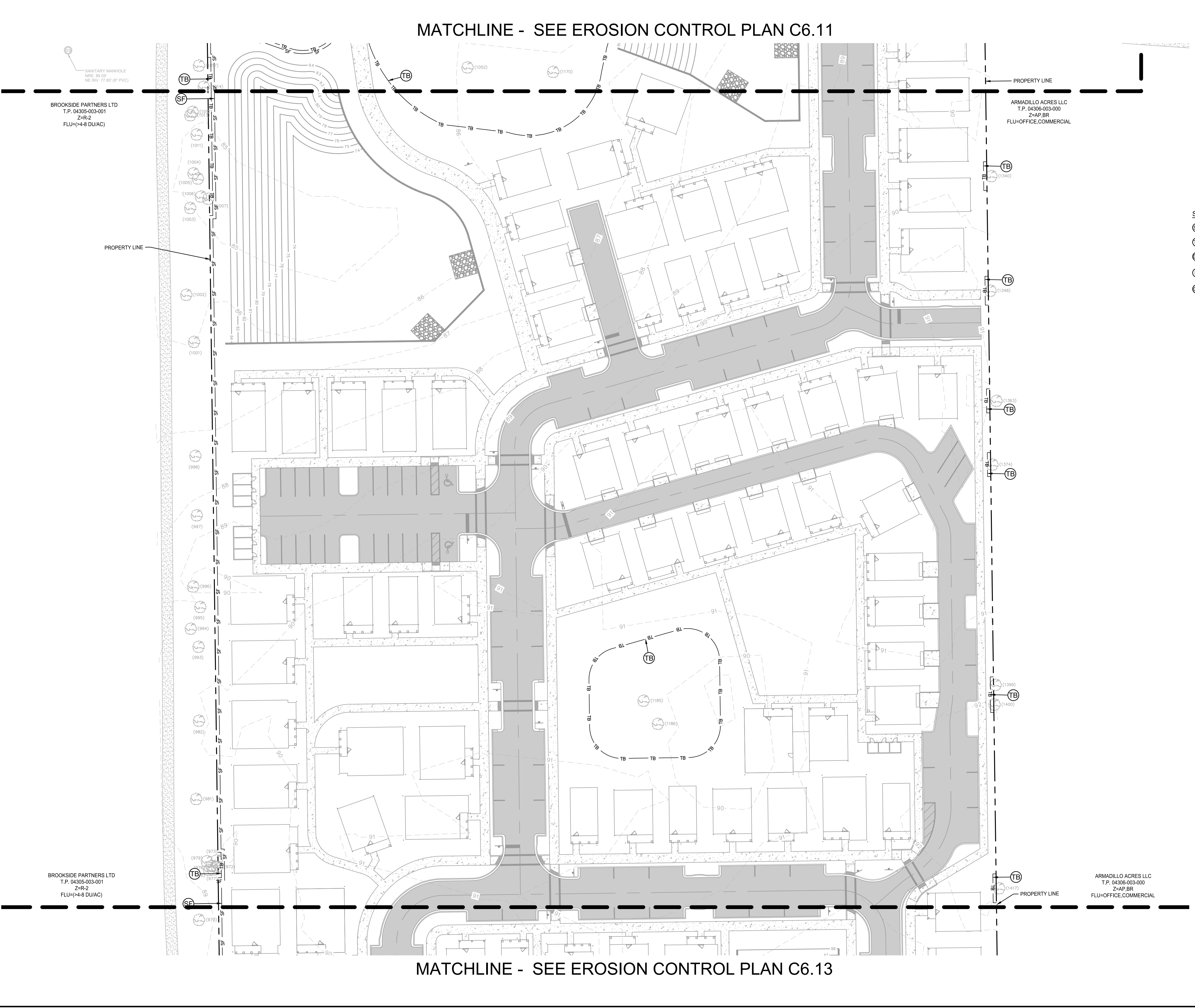


K:\Projects\2023\Gainesville Cottages\Gainesville Cottages\2023\EROSION CONTROL PLAN.dwg, Dec 21, 2023, dave@kimley-horn.com
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 800 SW 2ND AVENUE, SUITE 100, GAINESVILLE, FL 32601
 WWW.KIMLEY-HORN.COM PHONE: 352-374-3274 REGISTRY NO. 35106

LICENSED PROFESSIONAL	DAVID C. SOWELL
KHA PROJECT	142425000
DATE	DECEMBER 2023
SCALE	AS SHOWN
DESIGNED BY	KHA
DRAWN BY	KHA
CHECKED BY	KHA
FLORIDA LICENSE NUMBER	66531

EROSION CONTROL PLAN

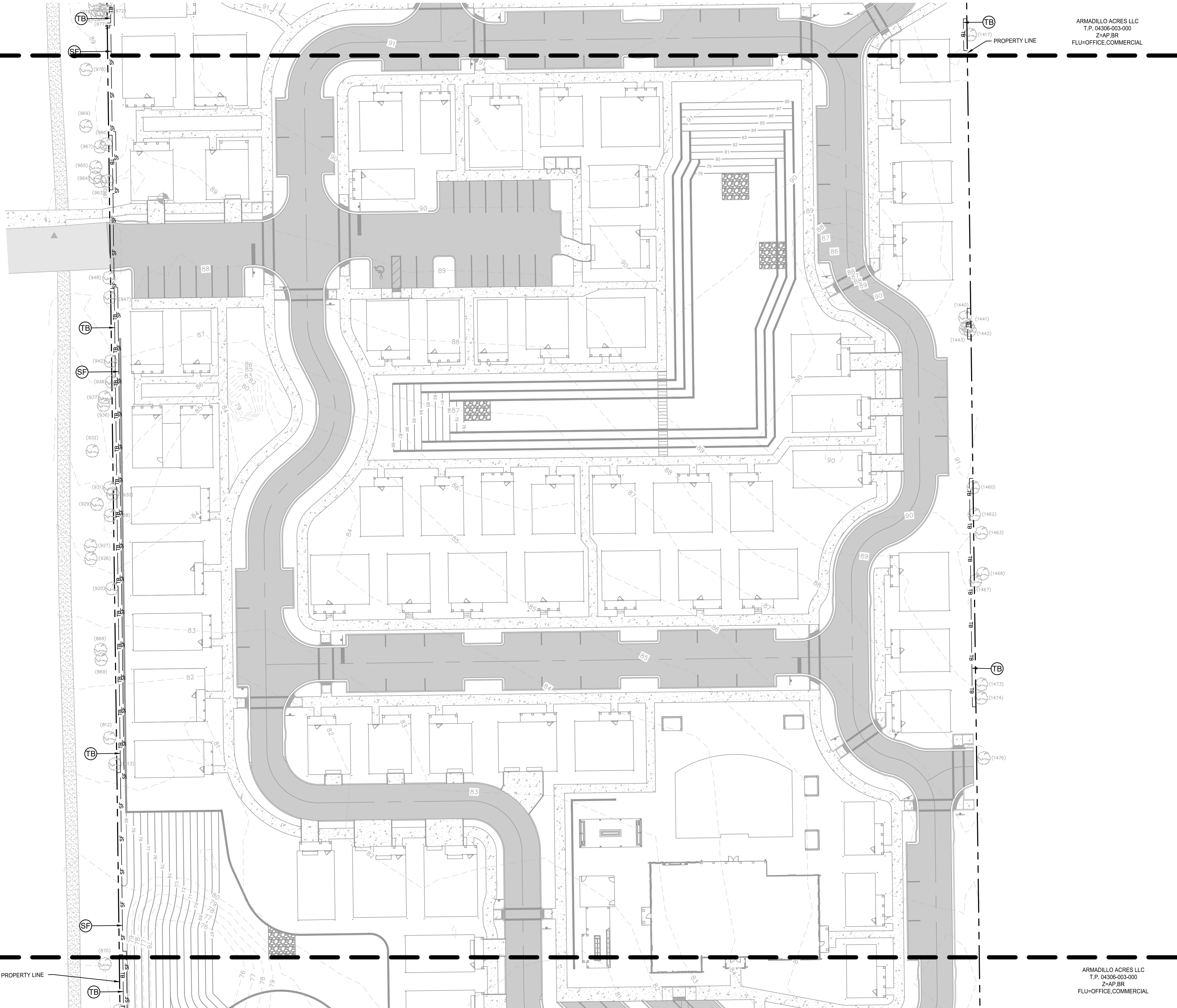
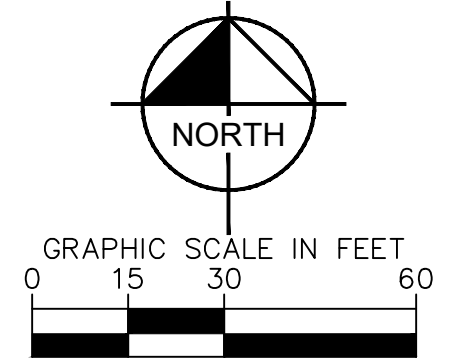
GAINESVILLE COTTAGES TND
 PREPARED FOR
SANDS COMPANIES, INC.
 ALACHUA COUNTY FLORIDA

SHEET NUMBER	C6.12
--------------	-------

MATCHLINE - SEE EROSION CONTROL PLAN C6.12

BROOKSIDE PARTNERS LTD
T.P. 04305-003-001
Z-R-2
FLU(4-8 DU/AC)

ARMADILLO ACRES LLC
T.P. 04306-003-000
Z=AP BR
FLU=OFFICE COMMERCIAL



- SITE LEGEND** SEE SHEET C6.30 FOR DETAILS
- (SF) - SILT FENCE
 - (TB) - TREE BARRICADE
 - (DB) - DITCH BARRIER
 - (IP) - INLET PROTECTION
 - (CE) - CONSTRUCTION ENTRANCE

BROOKSIDE PARTNERS LTD
T.P. 04305-003-001
Z-R-2
FLU(4-8 DU/AC)

ARMADILLO ACRES LLC
T.P. 04306-003-000
Z=AP BR
FLU=OFFICE COMMERCIAL

MATCHLINE - SEE EROSION CONTROL PLAN C6.14

K:\01_CAD\14220000-Gainesville Cottages\13 Final Development Plans\03.00 EROSION CONTROL PLAN - Dec 21, 2023.dwg
 PLOT: 04305-003-001-1422000-03-00 EROSION CONTROL PLAN - 1422000-03-00
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LICENSED PROFESSIONAL
 DAVID C. SOWELL
 FLORIDA LICENSE NUMBER
 66551

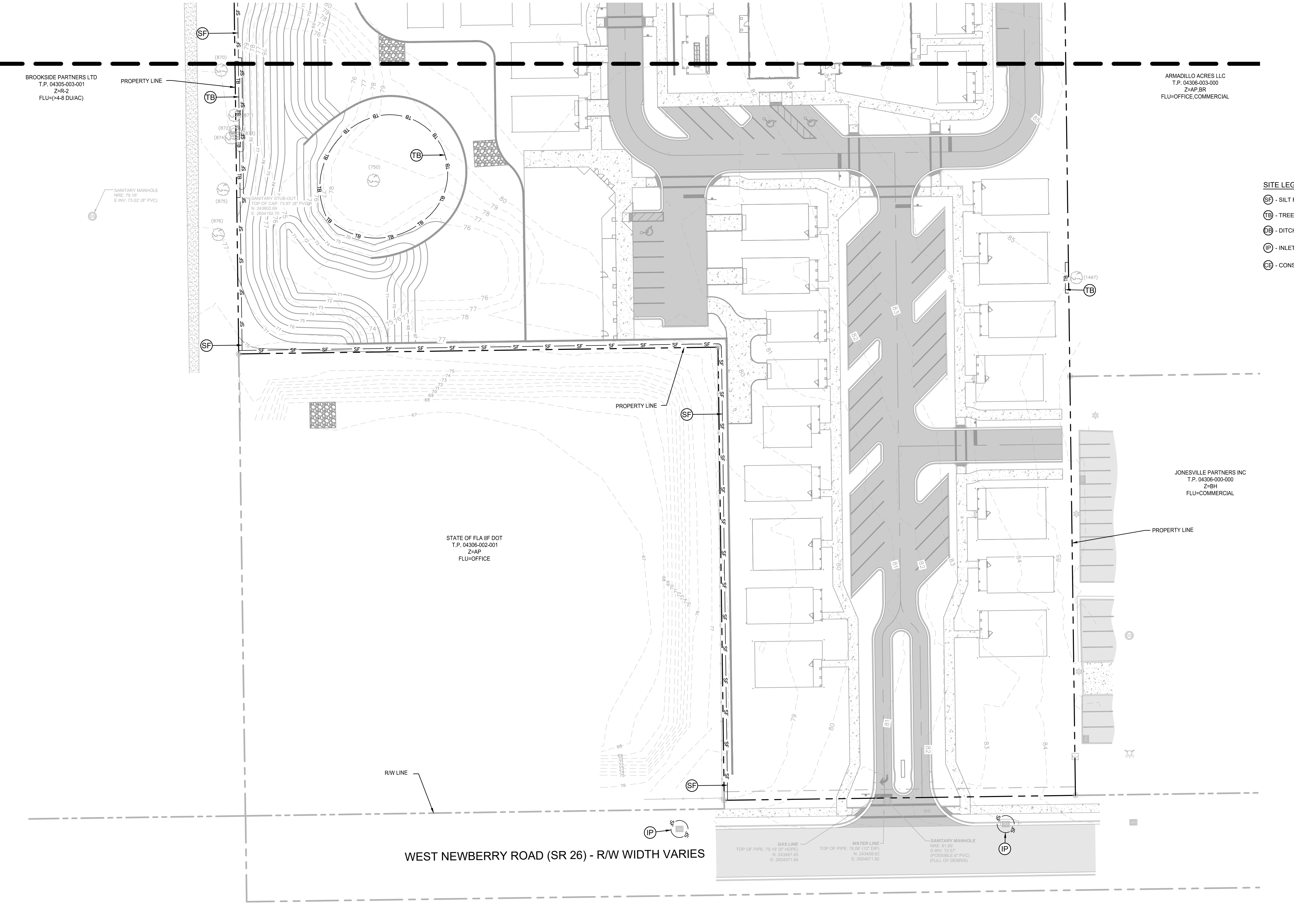
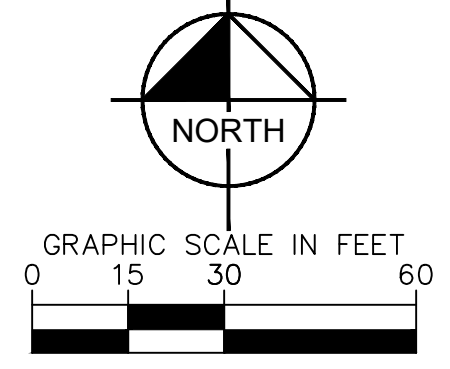
EROSION CONTROL PLAN

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SHEET NUMBER
C6.13

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BROOKSIDE PARTNERS LTD
T.P. 04305-003-001
Z-R2
FLU-OFFICE, COMMERCIAL

ARMADILLO ACRES LLC
T.P. 04306-003-000
Z-AP BR
FLU-OFFICE, COMMERCIAL

SANITARY MANHOLE
NRE: 78.18
E INV: 73.02' (8" PVC)

SANITARY STUB-OUT
TOP OF CAP: 73.97' OF FINISH
N: 243802.69
E: 289419.71

STATE OF FLA IF DOT
T.P. 04306-002-001
Z-HP
FLU-OFFICE

JONESTOWN PARTNERS INC
T.P. 04306-000-000
Z-BH
FLU-COMMERCIAL

WEST NEWBERRY ROAD (SR 26) - R/W WIDTH VARIES

GAS LINE
TOP OF PIPE: 73.19' OF FINISH
N: 243487.43
E: 289451.84

WATER LINE
TOP OF PIPE: 78.26' OF FINISH
N: 243459.82
E: 289451.82

SANITARY MANHOLE
NRE: 81.95'
S INV: 72.25'
(POSSIBLE 8" PVC)
(FULL OF DEBRIS)

SITE LEGEND SEE SHEET C6.30 FOR DETAILS

- SF - SILT FENCE
- TB - TREE BARRICADE
- DB - DITCH BARRIER
- IP - INLET PROTECTION
- CE - CONSTRUCTION ENTRANCE

K:\DOT_Civil\142425000-Gainesville Cottages\13 Final Development Plans\04306-002-001 EROSION CONTROL PLAN - Dec 21, 2023.dwg
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 WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL	DAVID C. SOWELL
DATE	DECEMBER 2023
SCALE	AS SHOWN
DESIGNED BY	KHA
DRAWN BY	KHA
CHECKED BY	KHA
DATE	

EROSION CONTROL PLAN

GAINESVILLE COTTAGES TND
 PREPARED FOR
SANDS COMPANIES, INC.
 ALACHUA COUNTY FLORIDA

SHEET NUMBER
C6.14

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K:\01_Civil\14222000-Gainesville Cottages\CD\PlanSheets\13 Final Development Plans\03.00 EROSION CONTROL - PLAN SHEETS NOTES - Dec. 21, 2023.dwg - delemmation.dwg
 PLOT: eddem-14222000-erosion-control-plansheets.dwg - 14222000 - 14222000 - 14222000 - 14222000 - 14222000 - 14222000 - 14222000 - 14222000 - 14222000 - 14222000
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TIMING OF SEDIMENT - CONTROL PRACTICES:

SEDIMENT CONTROL PRACTICES SHALL BE FUNCTIONAL THROUGHOUT EARTH- DISTURBING ACTIVITY.

SETTLING FACILITIES, PERIMETER CONTROLS, AND OTHER PRACTICES INTENDED TO TRAP SEDIMENT SHALL BE IMPLEMENTED AS THE FIRST STEP OF GRADING AND WITHIN SEVEN DAYS FROM THE START OF GRUBBING. THEY SHALL CONTINUE TO FUNCTION UNTIL THE UPSLOPE DEVELOPMENT AREA IS RE-STABILIZED.

STABILIZATION OF NON STRUCTURAL PRACTICES:

CONTROL PRACTICES SHALL PRESERVE EXISTING VEGETATION WHERE ATTAINABLE AND DISTURBED AREAS SHALL BE RE-VEGETATED AS SOON AS PRACTICAL AFTER GRADING OR CONSTRUCTION.

DENUDED AREAS SHALL HAVE SOIL STABILIZATION APPLIED WITHIN FOURTEEN DAYS IF THEY ARE TO REMAIN DORMANT FOR MORE THAN FORTY-FIVE DAYS. PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN FOURTEEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE, AND SHALL ALSO BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS WHICH MAY NOT BE AT FINAL GRADE, BUT WILL REMAIN DORMANT (UNDISTURBED) FOR LONGER THAN FORTY-FIVE DAYS.

SEDIMENT BARRIERS:

SHEET FLOW RUNOFF FROM DENUDED AREAS SHALL BE INTERCEPTED BY SEDIMENT BARRIERS.

SEDIMENT BARRIERS SUCH AS SEDIMENT FENCE OR DIVERSIONS TO SETTLING FACILITIES SHALL PROTECT ADJACENT PROPERTIES AND WATER RESOURCES FROM SEDIMENT TRANSPORTED BY SHEET FLOW.

INLET PROTECTION:

ALL STORM SEWER INLETS WHICH ACCEPT WATER RUNOFF FROM THE DEVELOPMENT AREA SHALL BE PROTECTED SO THAT SEDIMENT-LADEN WATER WILL NOT ENTER THE STORM SYSTEM WITHOUT FIRST BEING PONDED AND FILTERED.

MAINTENANCE:

TEMPORARY EROSION CONTROL FEATURES SHALL BE ACCEPTABLY MAINTAINED AND SHALL BE REMOVED OR REPLACED WHEN DIRECTED BY THE ENGINEER AT NO COST TO THE OWNER. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIFICATIONS.

STOCKPILES:

ALL SOIL STOCKPILES SHALL BE PROTECTED FROM EROSION BY PERIMETER CONTROL DEVICES SUCH AS STRAW BALE DIKES OR FILTER FABRIC FENCES. AND THESE PERIMETER CONTROL DEVICES SHALL BE MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT.

PERMANENT VEGETATION:

PERMANENT VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNTIL GROUND COVER IS ACHIEVED WHICH, IN THE OPINION OF THE ENGINEER, PROVIDES ADEQUATE COVER AND IS MATURE ENOUGH TO CONTROL SOIL EROSION SATISFACTORILY AND TO SURVIVE ADVERSE WEATHER CONDITIONS.

CONSTRUCTION ACCESS ROUTES:

MEASURES SHALL BE TAKEN TO PREVENT SOIL TRANSPORT ONTO SURFACES OR PUBLIC ROADS WHERE RUNOFF IS NOT CHECKED.

INSPECTION SCHEDULE:

1. DIVERSION SWALE AND STRUCTURAL PROTECTION - INSPECT EVERY 7 DAYS OR AFTER EACH RAINSTORM PRODUCING RUNOFF. REPAIR AS REQUIRED.
2. INLET PROTECTION - INSPECT FOR SEDIMENT ACCUMULATION AFTER EACH RAINFALL AND DAILY DURING CONTINUED RAINFALL. REPAIR OR REPLACE WHEN WATER FLOW IS RESTRICTED BY SEDIMENT.
3. VEGETATIVE PLANTING - INSPECT AFTER SPROUTING OCCURS AND REPLANT BARE AREAS. INSPECT ESTABLISHED COVER EVERY 15 DAYS FOR DAMAGE; REPLANT AS REQUIRED. MAINTAIN ESTABLISHED COVER AT MAXIMUM 6" HEIGHT. IRRIGATE AS REQUIRED DURING DRY PERIODS TO MAINTAIN LIVE VEGETATION.

CONSTRUCTION SEQUENCE:

1. INSTALL SEDIMENT CONTROL MEASURES
2. PERFORM DEMOLITION ACTIVITIES.
3. STABILIZE SITE WITH TEMPORARY VEGETATION AS NEEDED.
4. PERFORM IRRIGATION AND UNDERGROUND UTILITY CONSTRUCTION ACTIVITIES.
5. CONSTRUCT NEW TRAILS AND INSTALL LANDSCAPING.
6. PERFORM FINAL GRADING.
7. INSTALL PERMANENT VEGETATION.
8. PERFORM CONTINUING MAINTENANCE THROUGHOUT ALL CONSTRUCTION OPERATIONS.

NOTE: THE SEQUENCE OF CONSTRUCTION SHOWN ABOVE IS A GENERAL OVERVIEW AND IS INTENDED TO CONVEY THE GENERAL CONCEPTS OF THE EROSION CONTROL DESIGN AND SHOULD NOT BE RELIED UPON FOR CONSTRUCTION PURPOSES. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETAILED PHASING AND CONSTRUCTION SEQUENCING NECESSARY TO CONSTRUCT THE PROPOSED IMPROVEMENTS INCLUDED IN THESE PLANS. THE CONTRACTOR SHALL NOTIFY ENGINEER IN WRITING IMMEDIATELY, PRIOR TO AND/OR DURING CONSTRUCTION IF ANY ADDITIONAL INFORMATION ON THE CONSTRUCTION SEQUENCE IS NECESSARY. CONTRACTOR IS SOLELY RESPONSIBLE FOR COMPLYING WITH THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION AND ALL OTHER APPLICABLE LAWS.

DITCH BARRIERS:

BALES SHALL BE PLACED IN A SINGLE ROW, LENGTHWISE, ORIENTED PERPENDICULAR TO THE CONTOUR, WITH ENDS OF ADJACENT BALES TIGHTLY ABUTTING ONE ANOTHER.

THE REMAINING STEPS FOR INSTALLING A STRAW BALE BARRIER FOR SHEET FLOW APPLICATIONS APPLY HERE, WITH THE FOLLOWING ADDITION. THE STRAW BALES SHALL BE INSTALLED SUCH THAT UNDERCUTTING BENEATH THE BALES IS MINIMIZED BY THE USE OF ROCK CHECK DAMS PLACED ADJACENT TO THE STRAW BALES.

THE BARRIER SHALL BE EXTENDED TO SUCH A LENGTH THAT THE BOTTOMS OF THE END BALES ARE HIGHER IN ELEVATION THAN THE TOP OF THE LOWEST MIDDLE BALE TO ASSURE THAT SEDIMENT-LADEN RUNOFF WILL FLOW EITHER THROUGH OR OVER THE BARRIER BUT NOT AROUND IT.

MAINTENANCE:

STRAW BALES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.

CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED BALES, END RUNS AND UNDERCUTTING BENEATH BALES.

NECESSARY REPAIRS TO BARRIERS OR REPLACEMENT OF BALES SHALL BE ACCOMPLISHED PROMPTLY.

SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL. THEY MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.

ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE STRAW BALE BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.

SEDIMENT FENCE:

THIS SEDIMENT BARRIER UTILIZES STANDARD STRENGTH OR EXTRA STRENGTH SYNTHETIC FILTER FABRICS. IT IS DESIGNED FOR SITUATIONS IN WHICH ONLY SHEET OR OVERLAND FLOWS ARE EXPECTED.

1. THE HEIGHT OF A SEDIMENT FENCE SHALL NOT EXCEED 36-INCHES (HIGHER FENCES MAY IMPOUND VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE OF THE STRUCTURE).
2. THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPliced TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6-INCH OVERLAP, AND SECURELY SEALED.
3. POSTS SHALL BE SPACED A MAXIMUM OF 10 FEET APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 12 INCHES). WHEN EXTRA STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 6 FEET.
4. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4 INCHES WIDE AND 4 INCHES DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER.
5. WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1-INCH LONG, TIE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2 INCHES AND SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
6. THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 8-INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.
7. WHEN EXTRA STRENGTH FILTER FABRIC AND CLOSURE POST SPACING ARE USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POSTS WITH ALL OTHER PROVISIONS OF ITEM NO. 6 APPLYING.
8. THE TRENCH SHALL BE BACKFILLED AND SOIL COMPACTED OVER THE FILTER FABRIC.
9. SEDIMENT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.

MAINTENANCE

SEDIMENT 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.

SHOULD THE FABRIC ON A SEDIMENT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER IS STILL NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.

SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-THIRD THE HEIGHT OF THE BARRIER.

ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SEDIMENT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED, AND SEEDED.

ADDITIONAL MEASURES:

THIS PLAN AND NARRATIVE REPRESENTS THE MINIMUM AMOUNT OF EROSION AND SEDIMENT CONTROL MEASURES. IN THE OPINION OF THE ENGINEER, THAT MAY BE NECESSARY UNDER FAVORABLE WEATHER CONDITIONS. THE CONTRACTOR IS RESPONSIBLE FOR ANY ADDITIONAL MEASURES OR PRACTICES THAT MAY BE NECESSARY TO CONTROL EROSION, TURBID DISCHARGE, FUGITIVE PARTICULATES, ETC. TO FULLY COMPLY WITH ALL GOVERNMENTAL RULES AND/OR PERMIT REQUIREMENTS.

EROSION AND SEDIMENT CONTROL NARRATIVE

PLAN DESIGNER: KIMLEY-HORN AND ASSOCIATES INC.
800 SW 2ND AVENUE, SUITE 100
GAINESVILLE, FLORIDA 32601
PHONE: (352) 374-3274

OWNER/ DEVELOPER: SANDS PROPERTY ACQUISITIONS, LLC
9654 NORTH KINGS HWY, SUITE C2
MYRTLE BEACH, SC 29572

ADJACENT AREAS: NORTH: FOREST MEADOWS CEMETERY-WEST (COMMERCIAL)
SOUTH: W. NEWBERRY ROAD (SR 26) RIGHT OF WAY
EAST: VACANT (COMMERCIAL)
WEST: BROOKSIDE APARTMENTS (MULTI-FAMILY)

EROSION CONTROL MEASURE: EROSION AND SITE RUNOFF WILL BE CONTROLLED BY THE USE OF SEDIMENT FENCE AND STABILIZED VEGETATION WHERE NEEDED.

SITE CONTACT: JOE MORRISON - PRESIDENT
SANDS PROPERTY ACQUISITIONS, LLC
9654 NORTH KINGS HWY, SUITE C2
MYRTLE BEACH, SC 29572
JOE@SANDSCOMPANIES.COM
(843) 839-4634

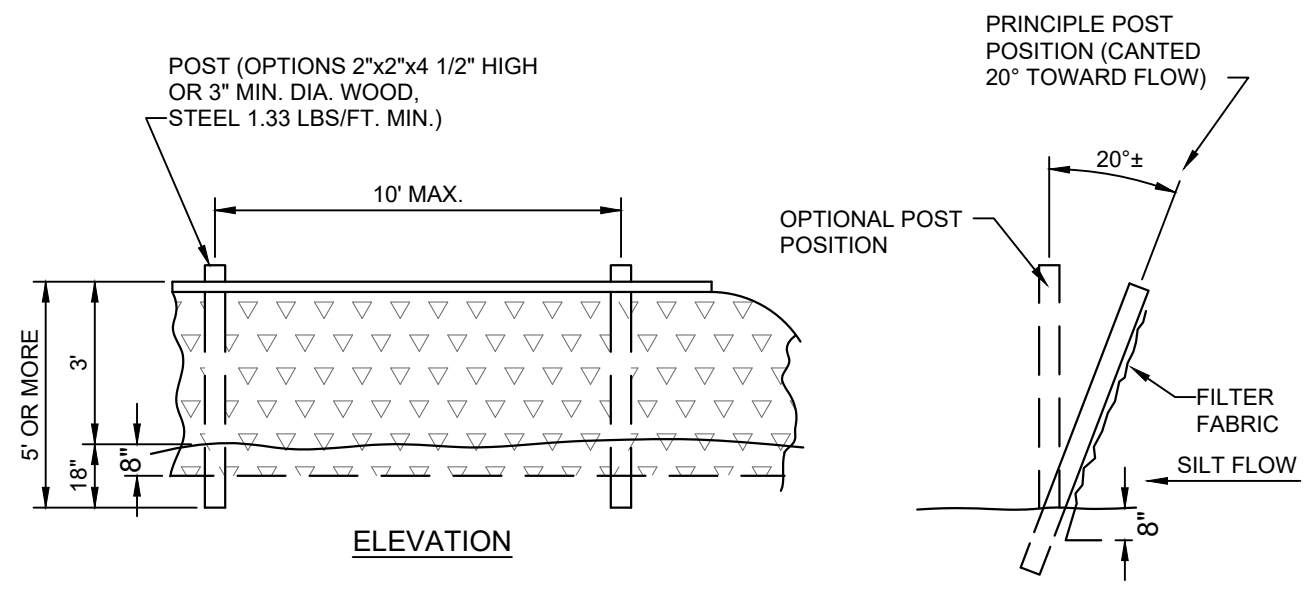
POLLUTION PREVENTION:

THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PROGRAM IS REGULATED THROUGH THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP). IF YOUR CONSTRUCTION ACTIVITY MEETS THE FOLLOWING CRITERIA:

1. CONTRIBUTES STORM WATER DISCHARGE TO SURFACE WATERS OF THE STATE OR INTO A MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4); AND/OR
2. DISTURBS ONE OR MORE ACRES OF LAND INCLUDING LESS THAN ONE ACRE IF ACTIVITY IS PART OF A LARGE COMMON PLAN OF DEVELOPMENT OR SALE THAT WILL MEET OR EXCEED A ONE ACRE THRESHOLD. DISTURBANCE INCLUDES CLEARING, GRADING AND EXCAVATING. THEN YOU WILL BE REQUIRED TO SUBMIT A NOTICE OF INTENT (NOI) AND PREPARE A STORM WATER POLLUTION PREVENTION PLAN (SWPPP). FOR MORE INFORMATION PLEASE VISIT FDEP'S WEBSITE AT WWW.DEP.STATE.FL.US/WATER/STORMWATER/NPDES.

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EROSION CONTROL NOTES					
KHA PROJECT 14222000	DATE DECEMBER 2023	SCALE AS SHOWN	DESIGNED BY KHA	DRAWN BY KHA	CHECKED BY KHA
GAINESVILLE COTTAGES TND PREPARED FOR SANDS COMPANIES, INC.			FLORIDA ALACHUA COUNTY		
SHEET NUMBER C6.20					

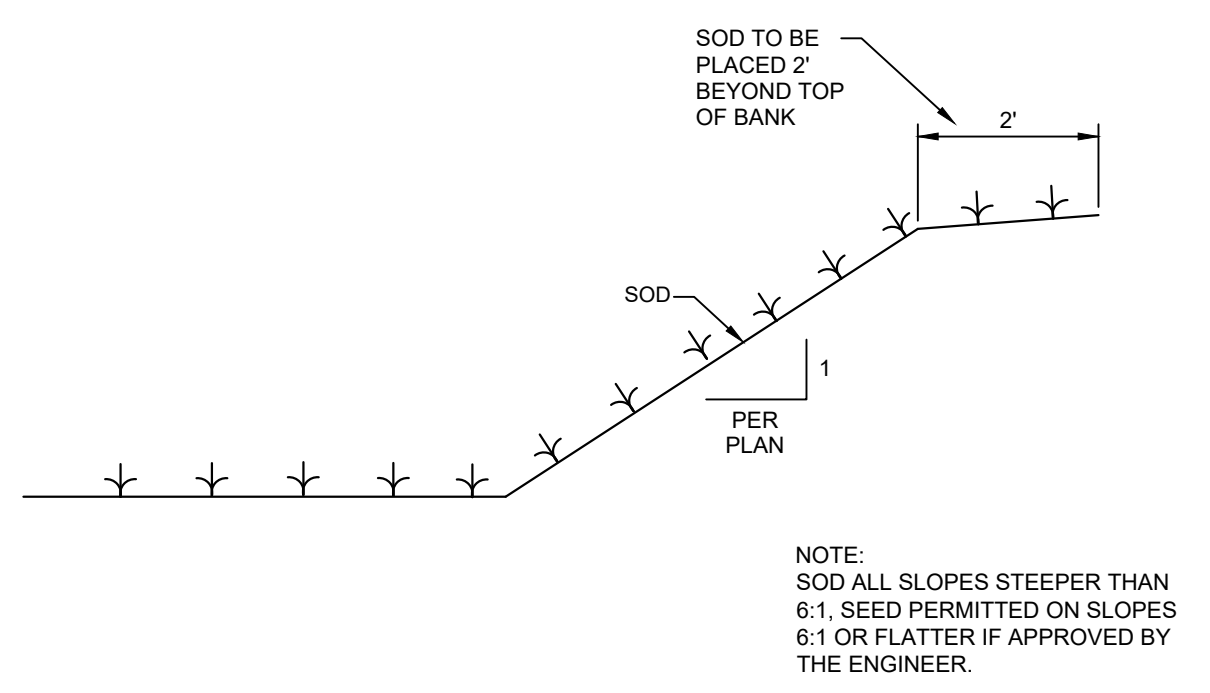
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 PLOT: 14220000-erosion-control-14220000.dwg
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TYPICAL SILT FENCE
N.T.S.

FILTER FABRIC
(IN CONFORMANCE
WITH SEC. 985 FDOT
SPECIFICATIONS)

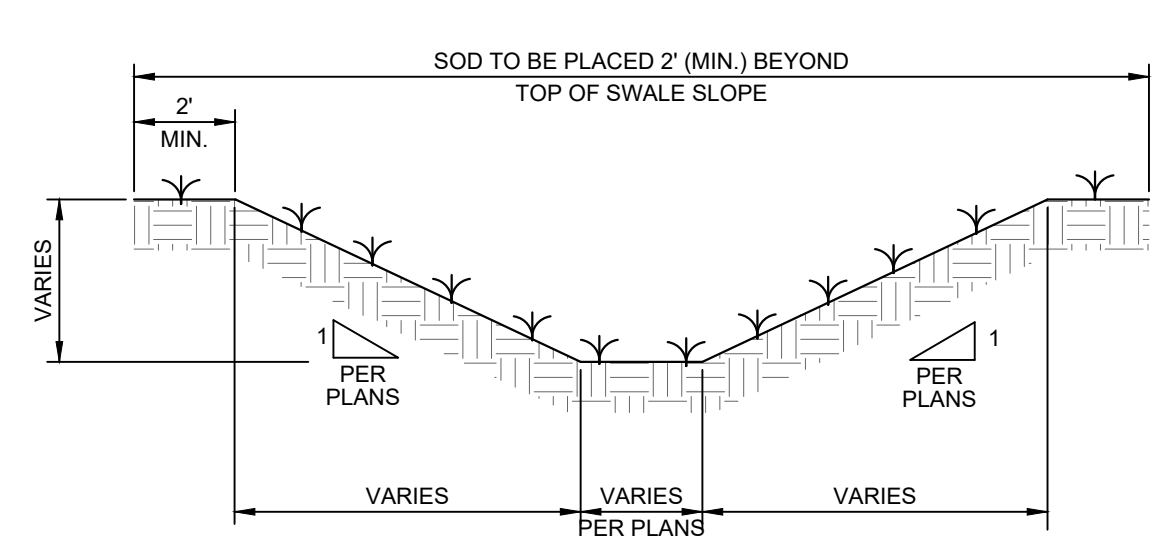
FIGURE 1



TYPICAL DRY DRAINAGE RETENTION AREA SECTION
N.T.S.

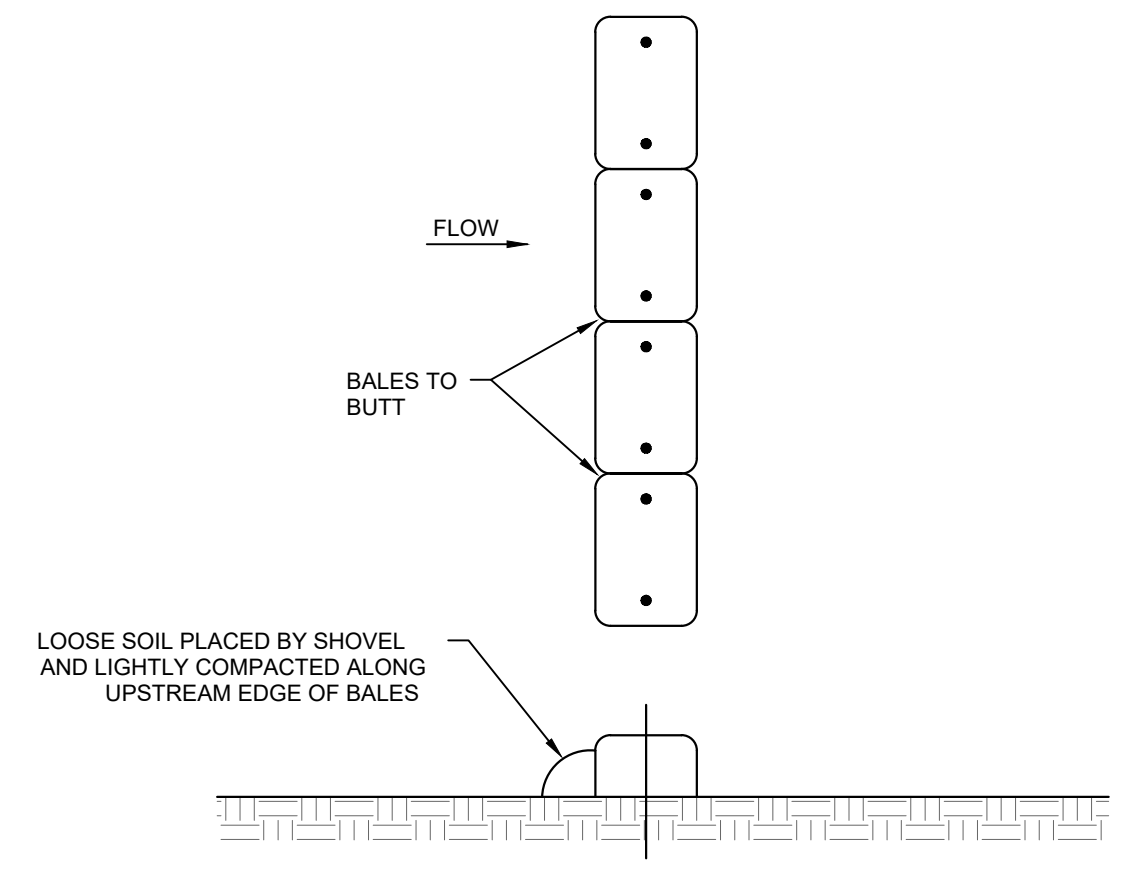
NOTE:
SOD ALL SLOPES STEEPER THAN
6:1. SEED PERMITTED ON SLOPES
6:1 OR FLATTER IF APPROVED BY
THE ENGINEER.

FIGURE 2



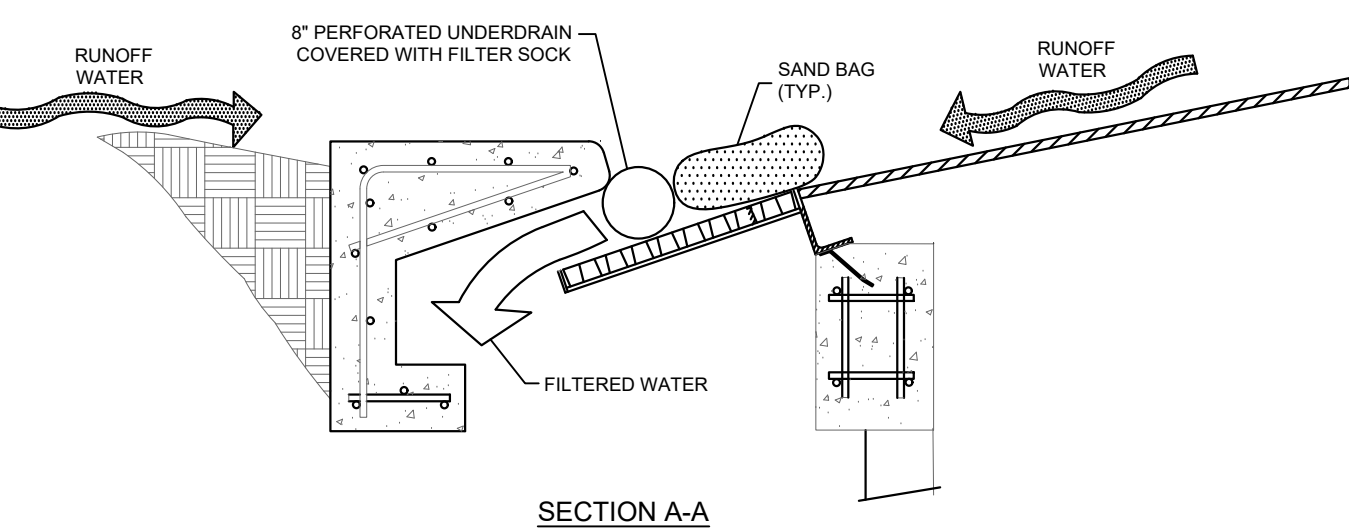
TYPICAL SWALE SECTION
N.T.S.

FIGURE 3

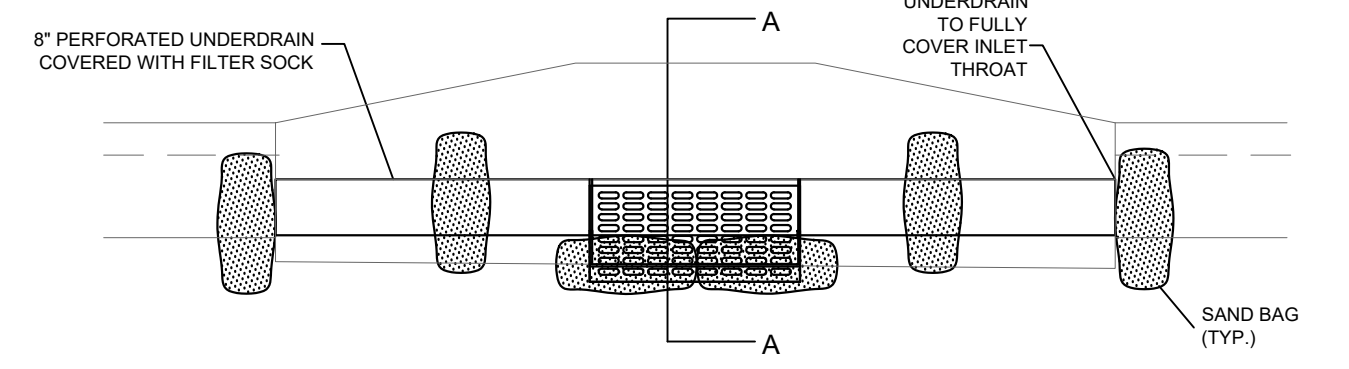


TYPICAL DITCH BARRIER
N.T.S.

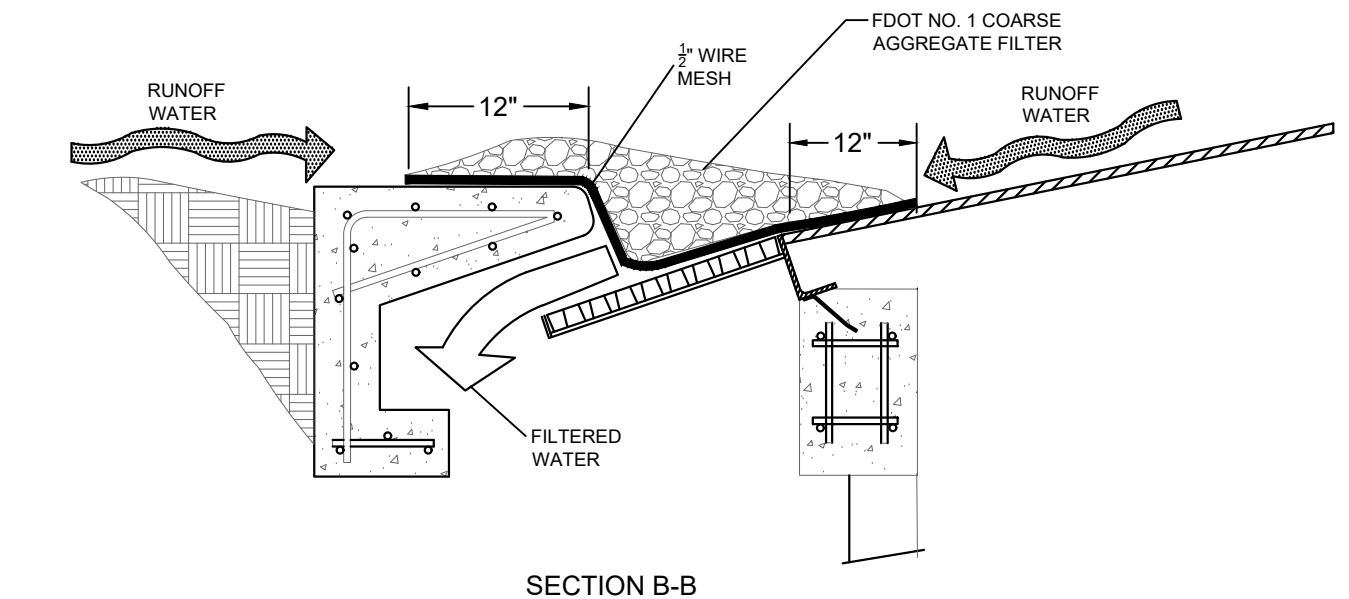
FIGURE 4



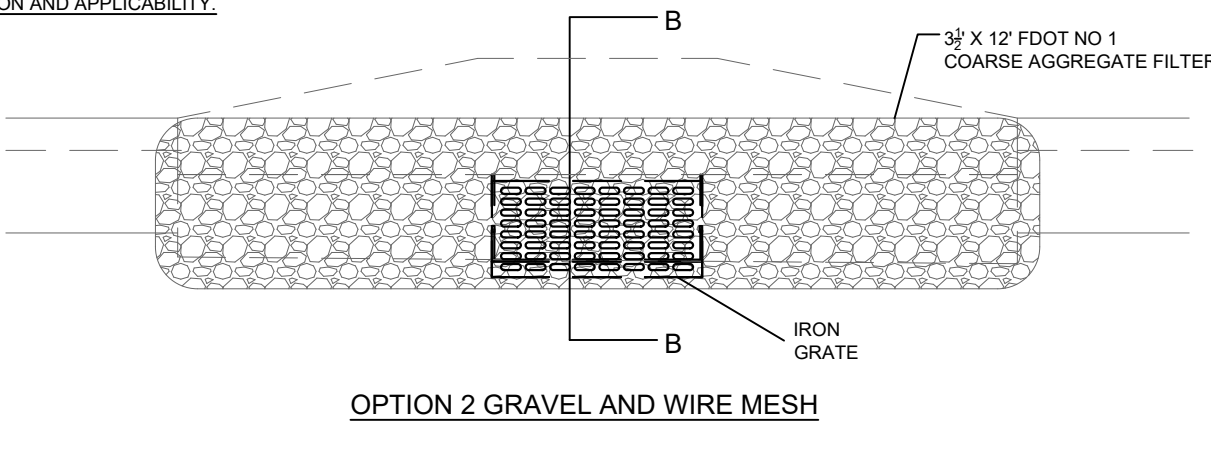
SECTION A-A



OPTION 1 UNDERDRAIN FILTER



SECTION B-B

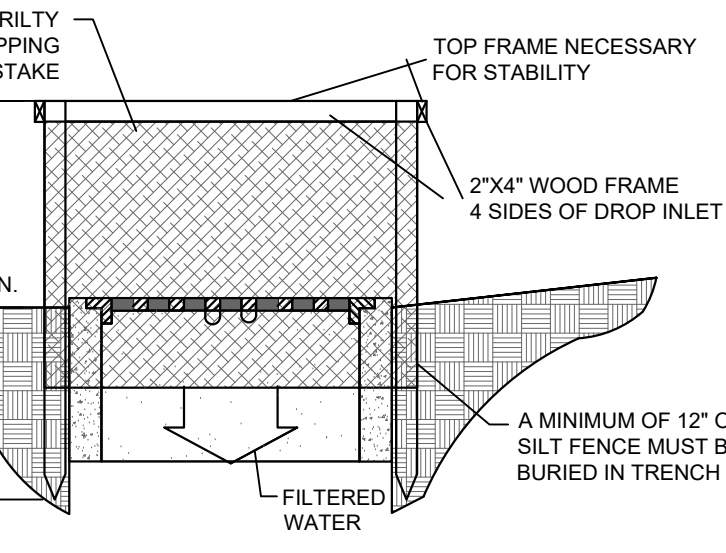
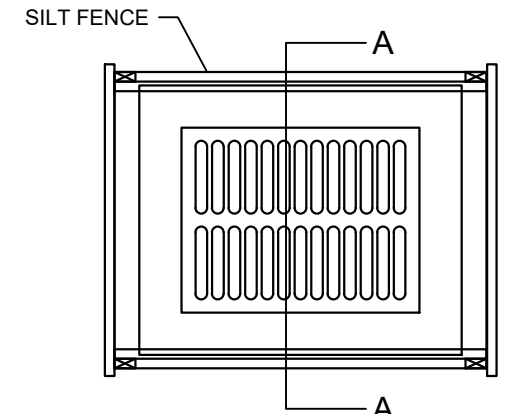


OPTION 2 GRAVEL AND WIRE MESH

CURB INLET SEDIMENT FILTER DETAIL
N.T.S.

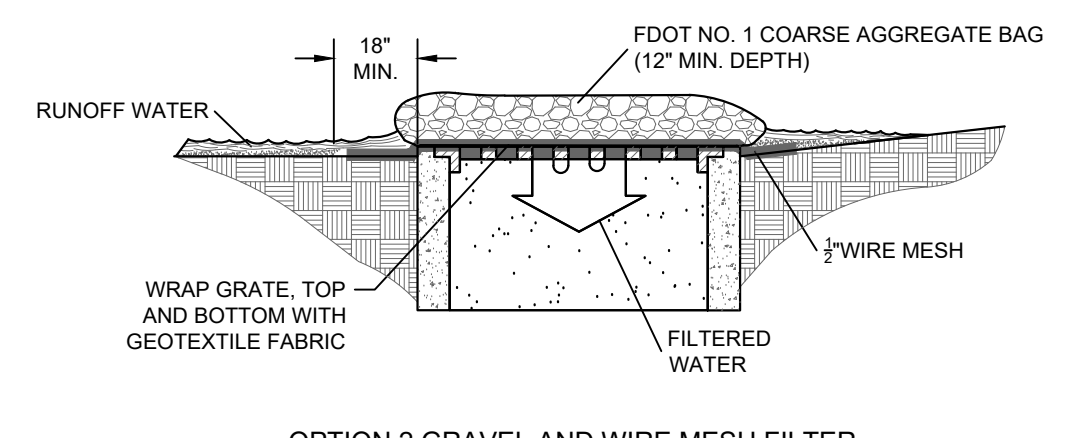
FIGURE 5

- NOTES:
1. DROP INLET SEDIMENT BARRIERS ARE TO BE USED FOR SMALL NEARLY LEVEL DRAINAGE AREAS, (LESS THAN 5%).
 2. USE 2"x4" WOOD OR EQUIVALENT METAL STAKES (3 FT. MIN. LENGTH).
 3. INSTALL 2"x4" WOOD FRAME TO INSURE STABILITY.
 4. SEE EROSION CONTROL PLAN FOR LOCATIONS AND APPLICABILITY.



SECTION A-A

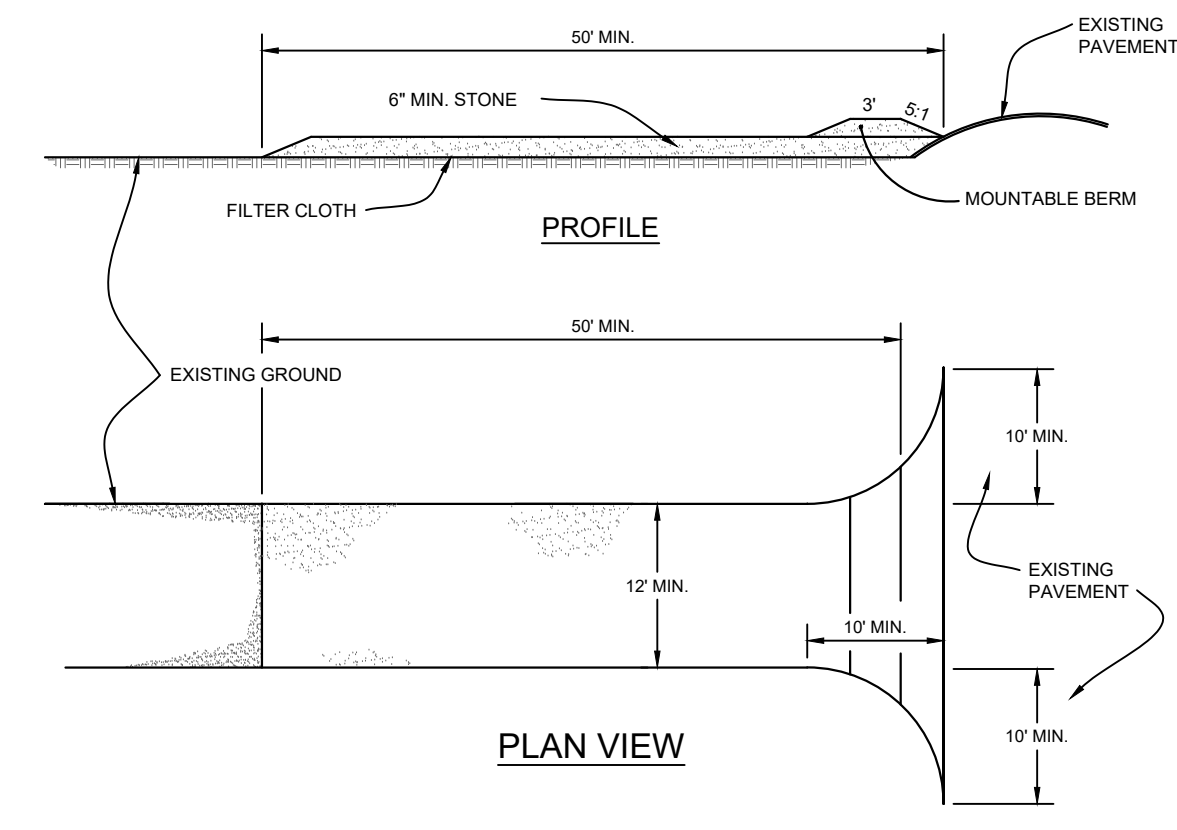
OPTION 1 SILT FENCE BARRIER



OPTION 2 GRAVEL AND WIRE MESH FILTER

DROP INLET SEDIMENT FILTER DETAIL
N.T.S.

FIGURE 6

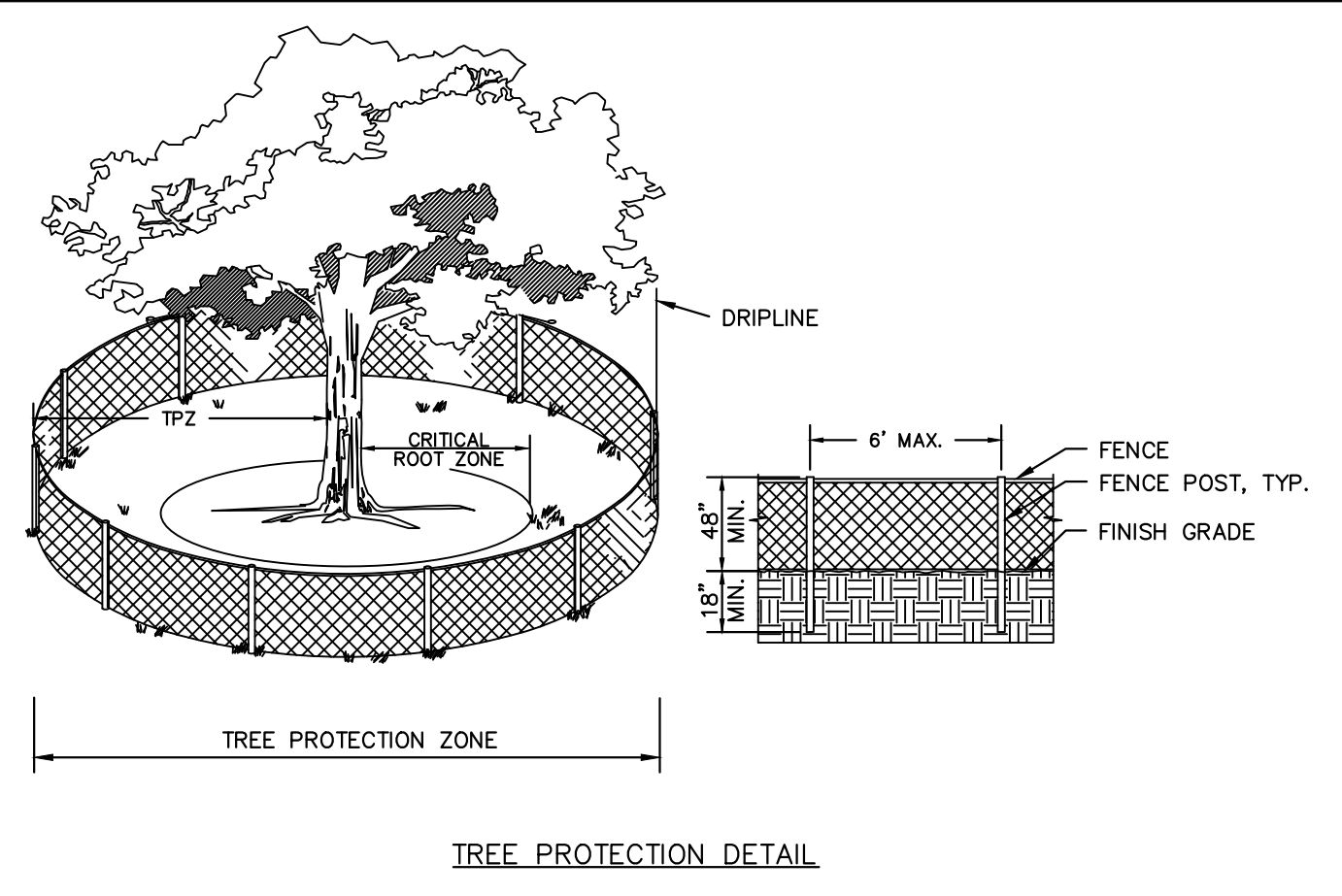


PROFILE

PLAN VIEW

- STABILIZED CONSTRUCTION ENTRANCE
1. STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
 2. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.

FIGURE 7



TREE PROTECTION DETAIL

- TREE PROTECTION NOTES:
1. TREE PROTECTION BARRICADES SHALL BE INSTALLED AROUND ALL PROTECTED TREES AND GROUPS OF TREES PRIOR TO ANY CLEARING OR GRADING OPERATIONS, INCLUDING THE REMOVAL OF OTHER TREES.
 2. FOR LARGE GROUPS OF TREES, BARRICADES MAY BE PLACED BETWEEN THE PROTECTED TREES AND THE CONSTRUCTION ACTIVITY AREA.
 3. BARRICADES SHALL BE MADE OF RIGID MATERIAL CAPABLE OF SURVIVING FOR THE DURATION OF THE CONSTRUCTION.
 4. BARRICADES SHALL BE INSPECTED WEEKLY DURING THE DURATION OF CONSTRUCTION AND REPAIRED/REINSTALLED AS REQUIRED.
 5. CLEANING OF EQUIPMENT OR MATERIAL OR THE DISPOSAL OF WASTE MATERIALS, INCLUDING BUT NOT LIMITED TO, PAINT, OIL, SOLVENT, ASPHALT, CONCRETE, AND MORTAR WITHIN THE TREE PROTECTION ZONE (TPZ) OF ANY TREE IS NOT ALLOWED.
 6. THE MOVEMENT OF EQUIPMENT OR STORAGE OF EQUIPMENT, MATERIALS, DEBRIS, OR FILL WITHIN THE TPZ OF ANY TREE IS NOT ALLOWED.

FIGURE 8

No.	REVISIONS	DATE	BY

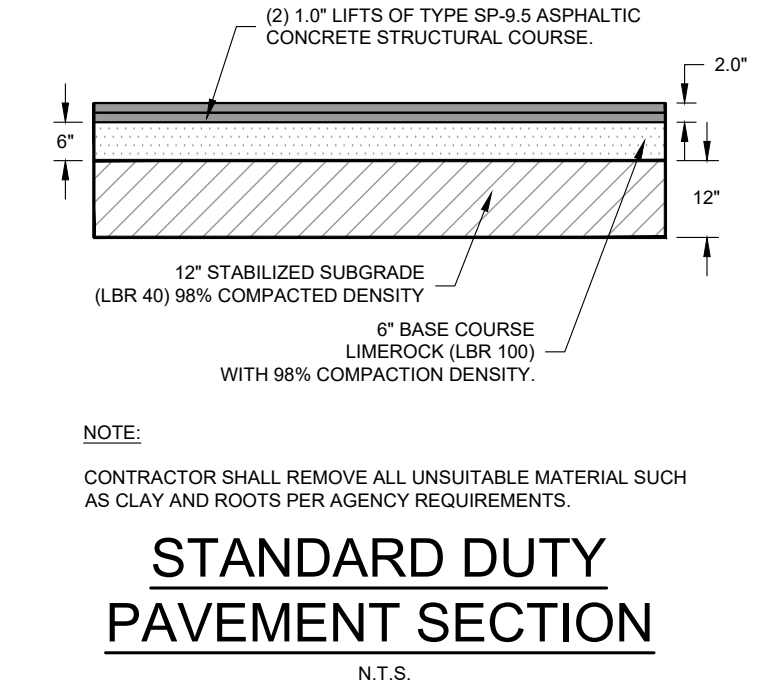
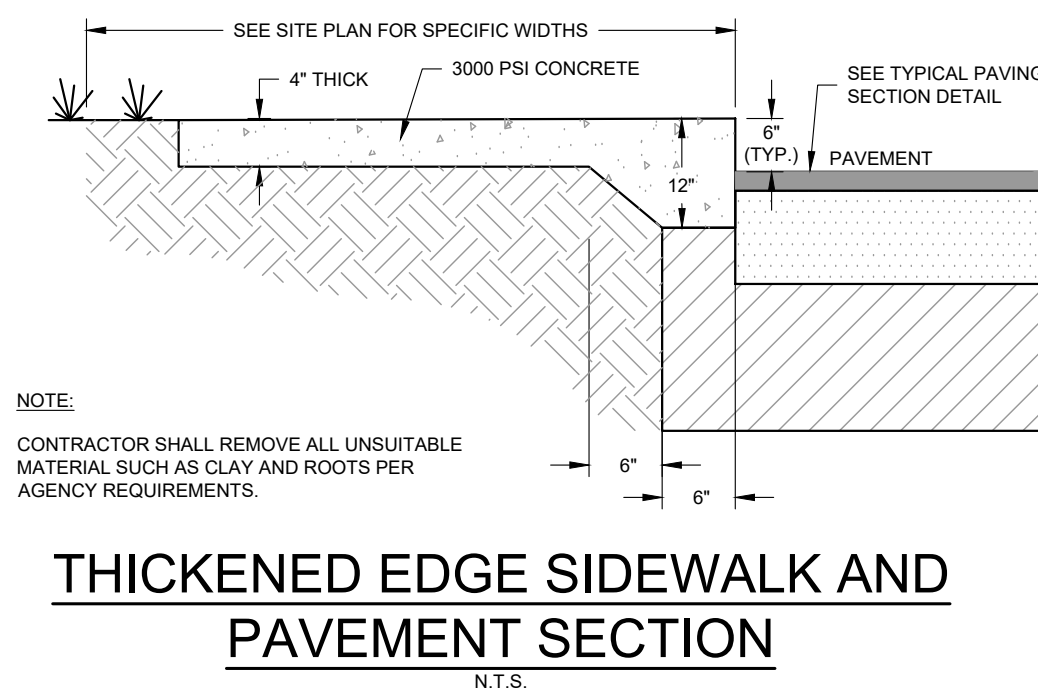
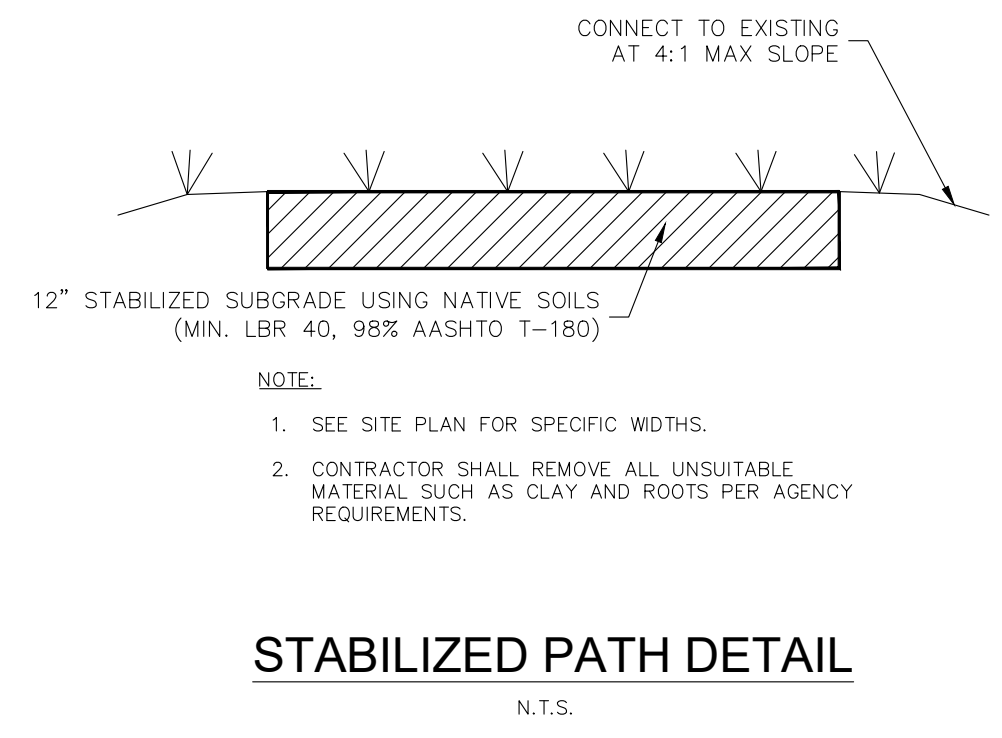
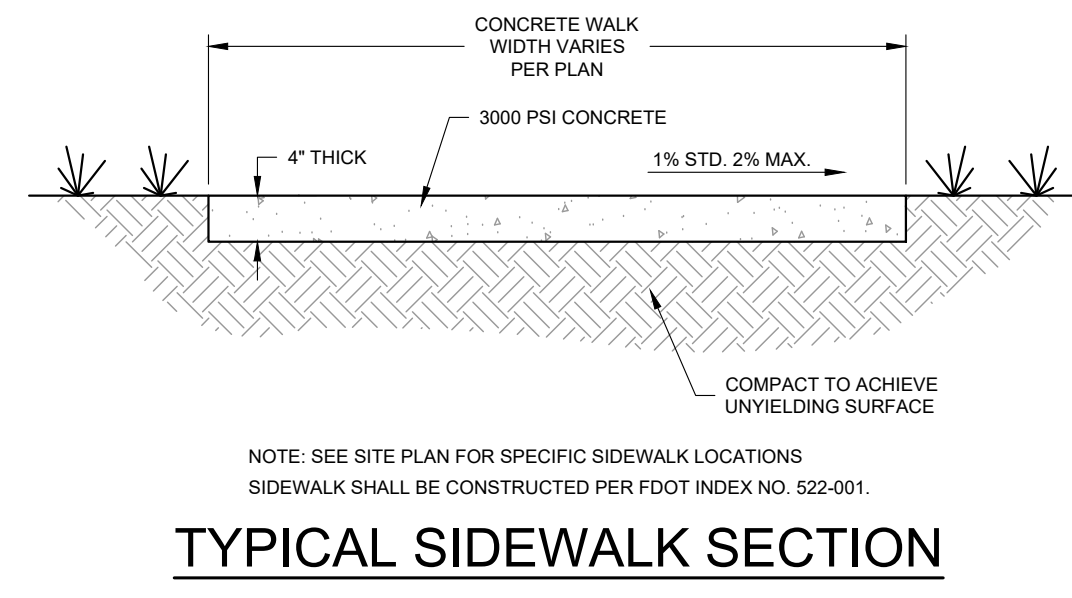
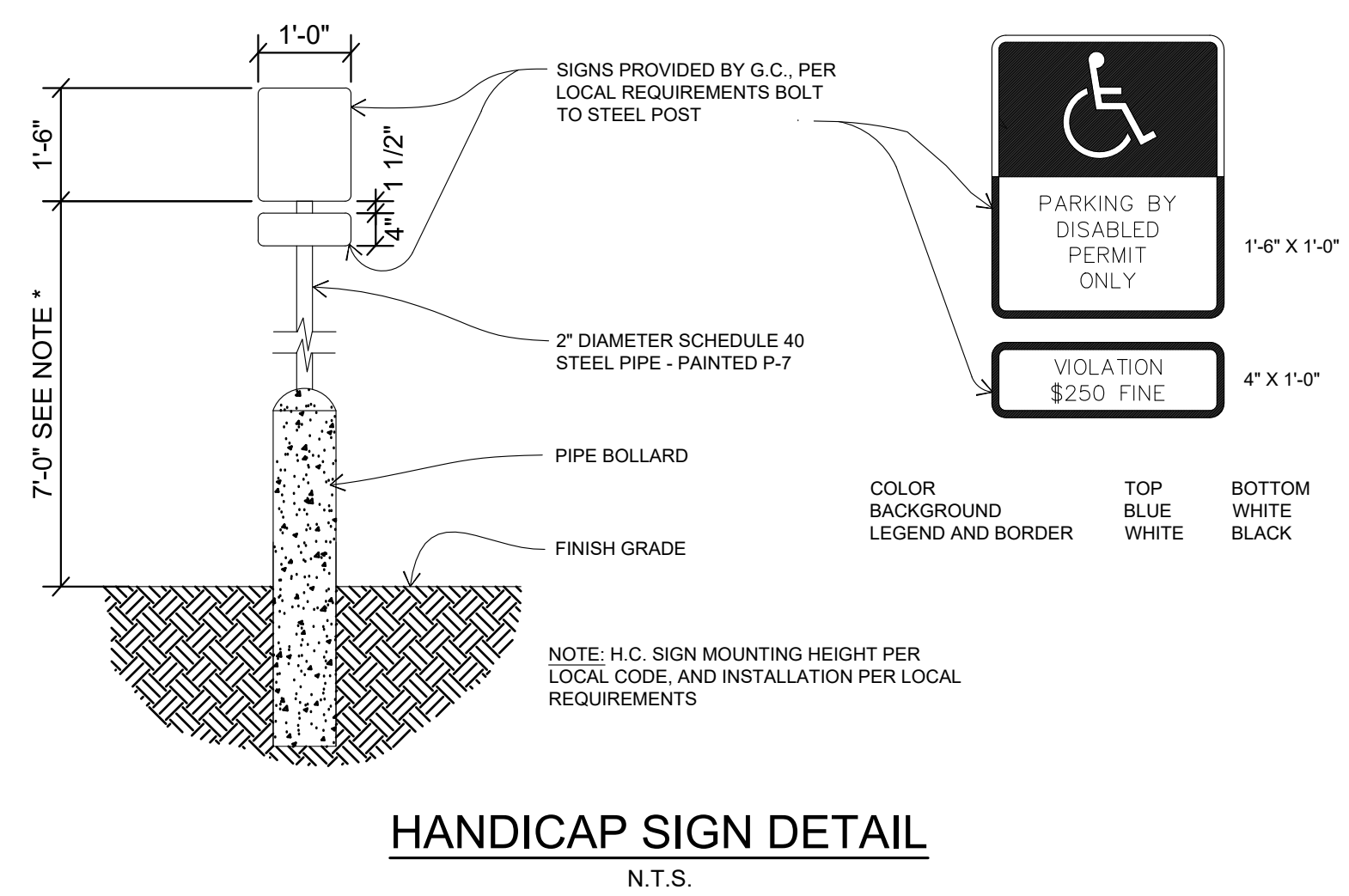
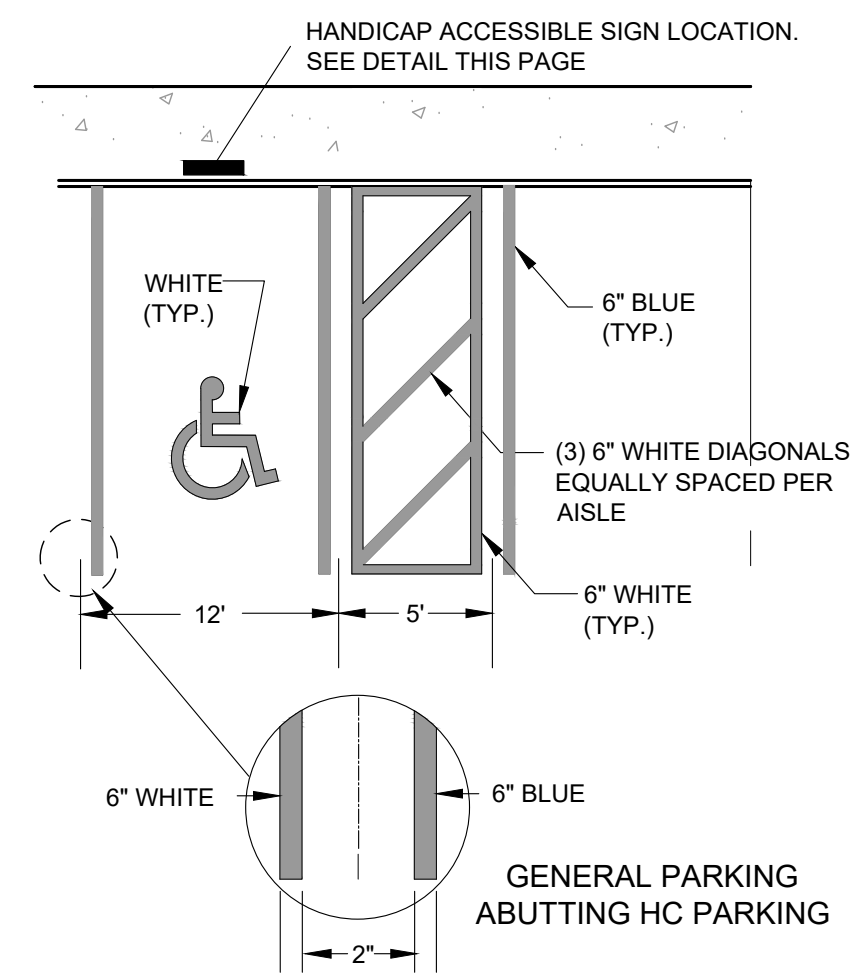
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 PHONE: 352-374-3274
 WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL
 DAVID C. SOWELL
 FLORIDA LICENSE NUMBER
 665531
 DESIGNED BY: KHA
 DRAWN BY: KHA
 CHECKED BY: KHA
 DATE: _____

**EROSION CONTROL
 DETAILS**

**GAINESVILLE COTTAGES
 TND**
 PREPARED FOR
SANDS COMPANIES, INC.
 ALACHUA COUNTY FLORIDA

SHEET NUMBER
C6.30

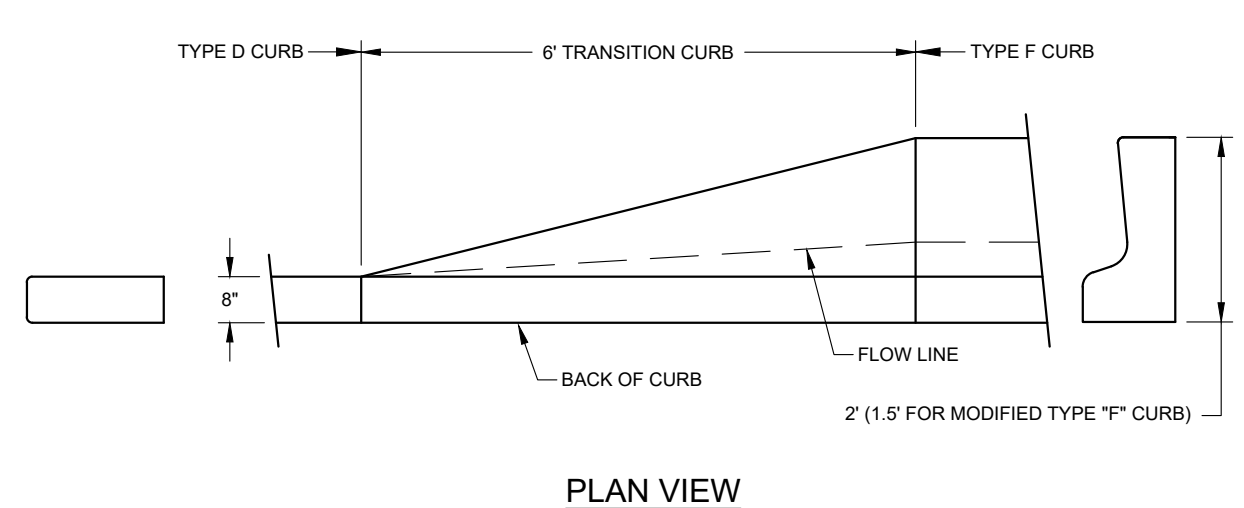
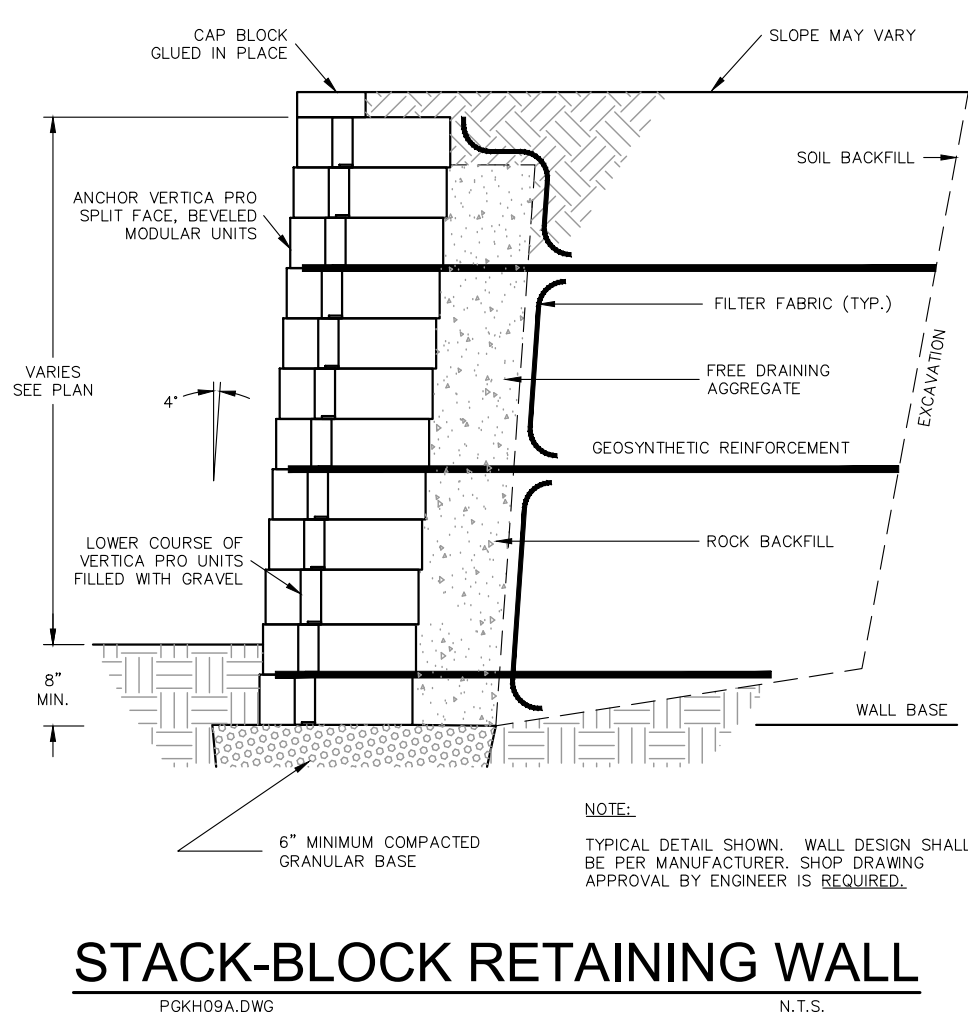
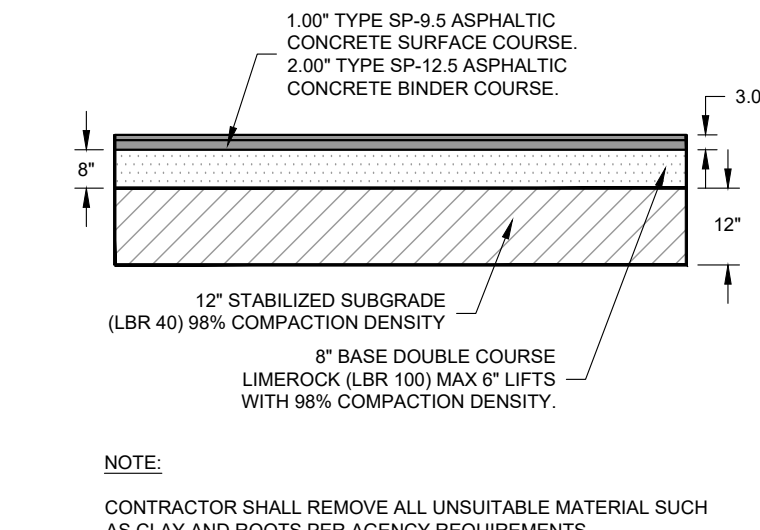
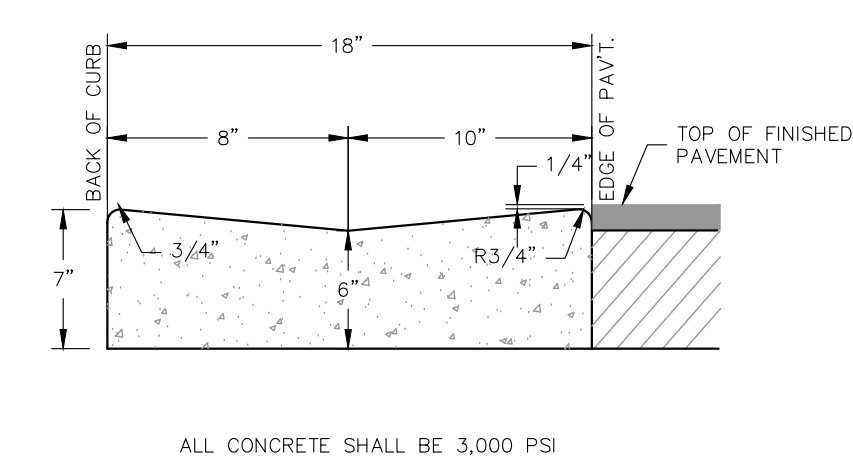
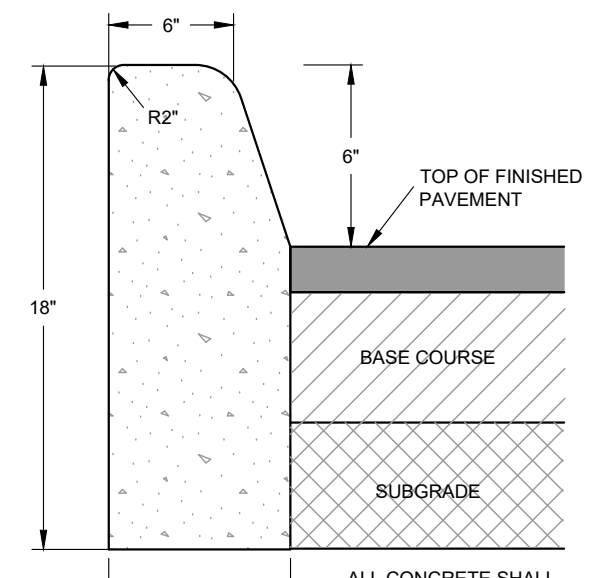
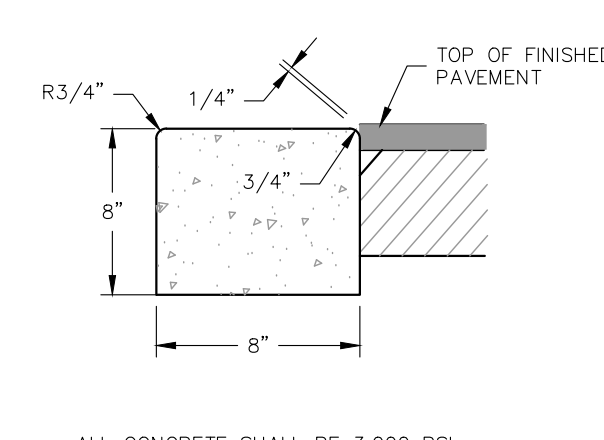
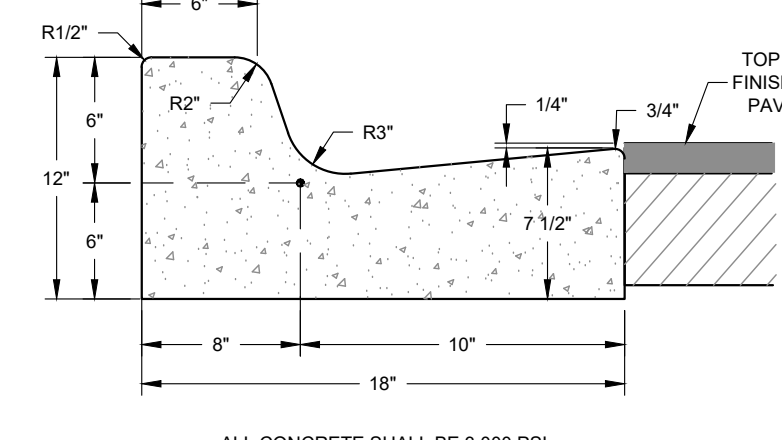
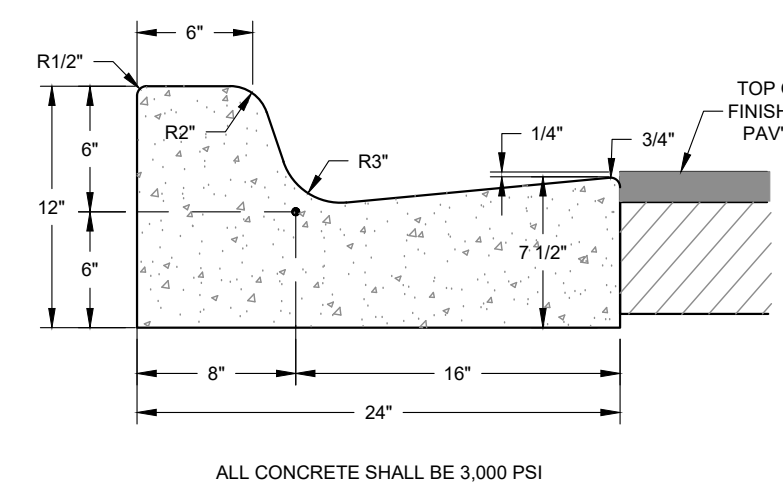
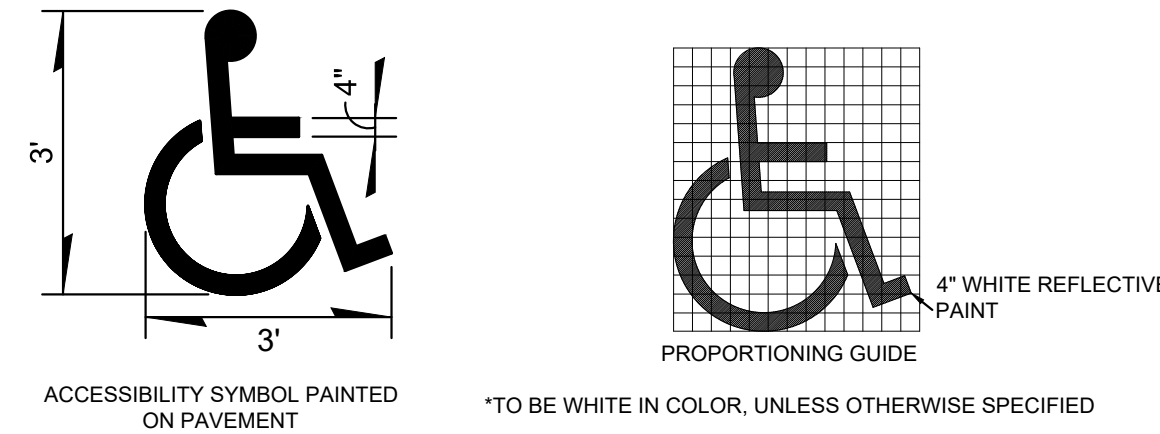


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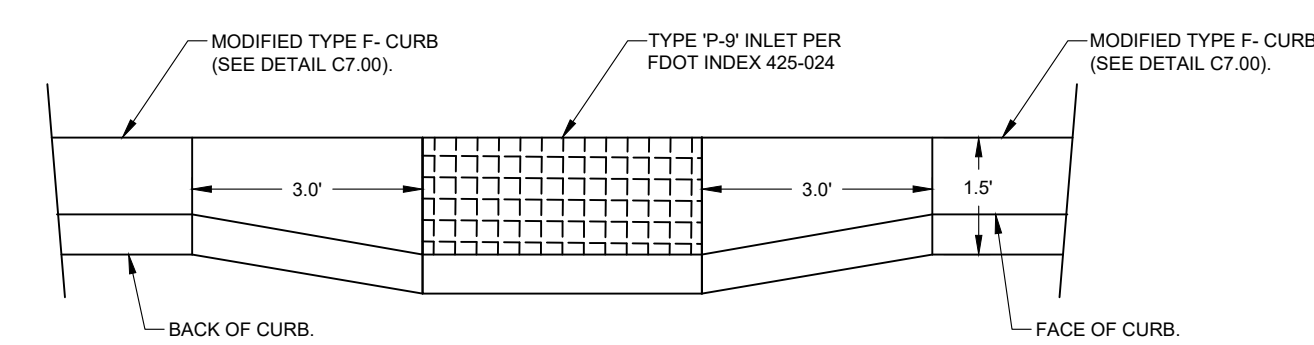
- WHEN HEADER CURB IS USED IN LIEU OF WHEEL STOPS, SIDEWALK ABUTTING CURB MUST BE WIDENED BY 18" SO THAT THE TOTAL SIDEWALK WIDTH IS 62", ALLOWING FOR 44" MINIMUM CLEAR ACCESSIBLE ROUTE.
- FOR COMPLETE DETAIL OF HANDICAPPED SIGN, REFER TO HANDICAP SIGN DETAIL.
- NO RAMP IS REQUIRED WHEN SIDEWALK IS FLUSH WITH PAVEMENT. SEE GRADING PLAN.
- ALL PARKING STRIPES SHALL BE 6" IN WIDTH.
- SEE F.D.O.T. INDEX 711-001 FOR THE MOST CURRENT DETAIL.
- MUST COMPLY WITH ADA REQUIREMENTS.

HANDICAP SPACE STRIPING DETAIL
N.T.S.

ACCESSIBLE PARKING SPACES AND ACCESS AISLES SHALL BE LEVEL WITH SURFACE SLOPES NOT EXCEEDING 1:50 (2%) IN ALL DIRECTIONS



TRANSITION TYPE "D" CURB TO TYPE "F" CURB
N.T.S.



NO.	REVISIONS	DATE	BY
1	NOT FOR CONSTRUCTION		

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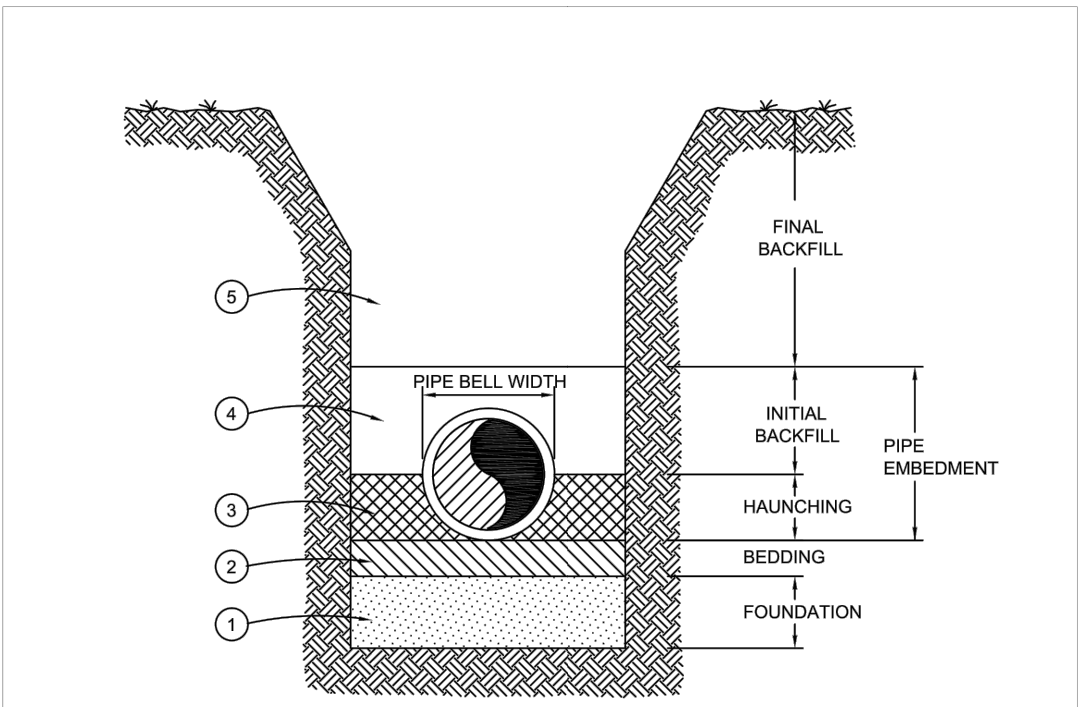
LICENSED PROFESSIONAL
DAVID C. SOWELL
FLORIDA LICENSE NUMBER 68531
KHA PROJECT 142425000
DATE DECEMBER 2023
SCALE AS SHOWN
DESIGNED BY KHA
DRAWN BY KHA
CHECKED BY KHA

CONSTRUCTION DETAILS

GAINESVILLE COTTAGES
PREPARED FOR SANDS COMPANIES, INC.
ALACHUA COUNTY FLORIDA

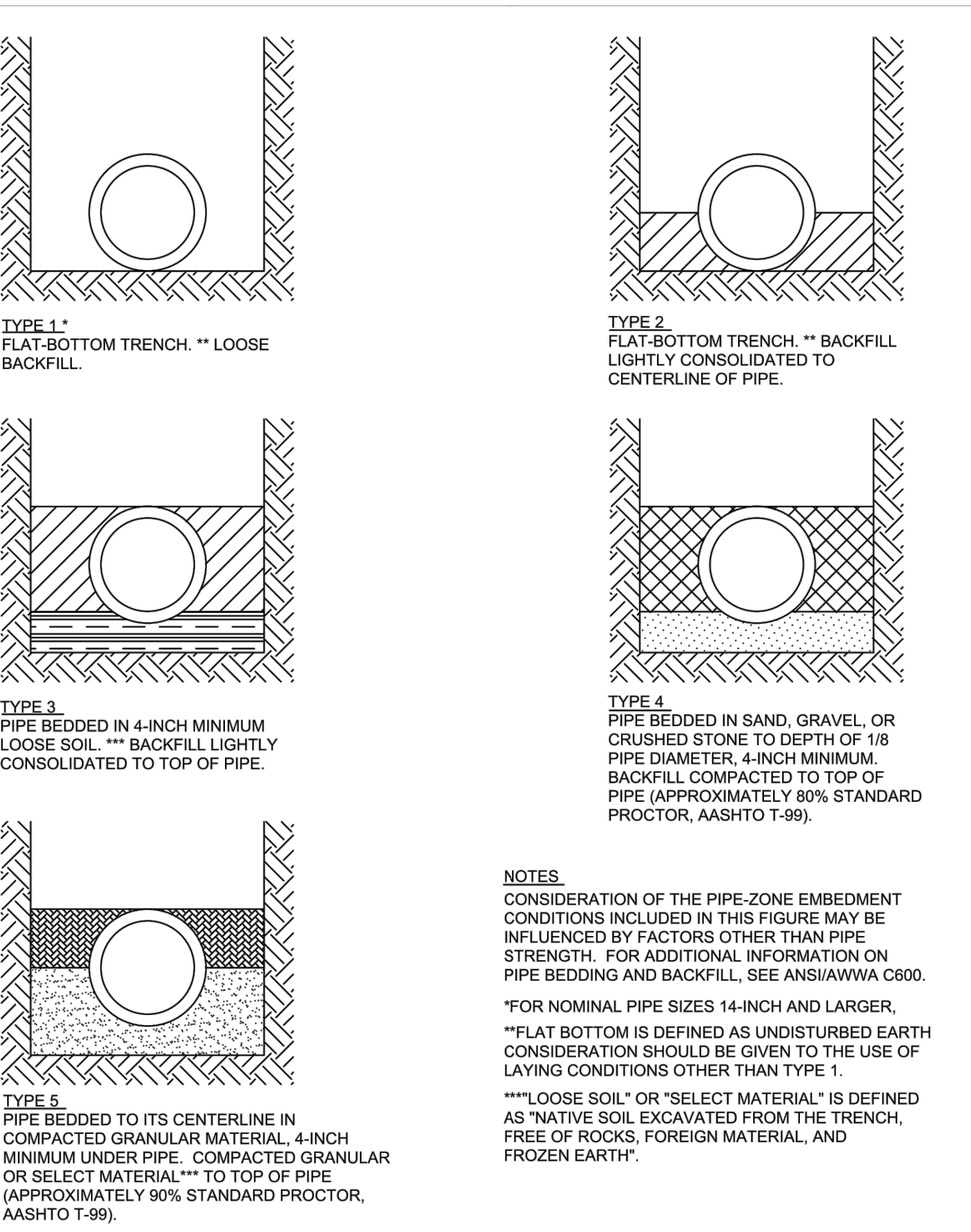
SHEET NUMBER C7.00

K:\DOT_CAD\142425000-Gainesville Cottages\CAD\PlanSheets\3 Final Development Plan\C7.00 CONSTRUCTION DETAILS.dwg, Layout: C7.00 CONSTRUCTION DETAILS
 DATE: 21, 2023, delany.mackinnon
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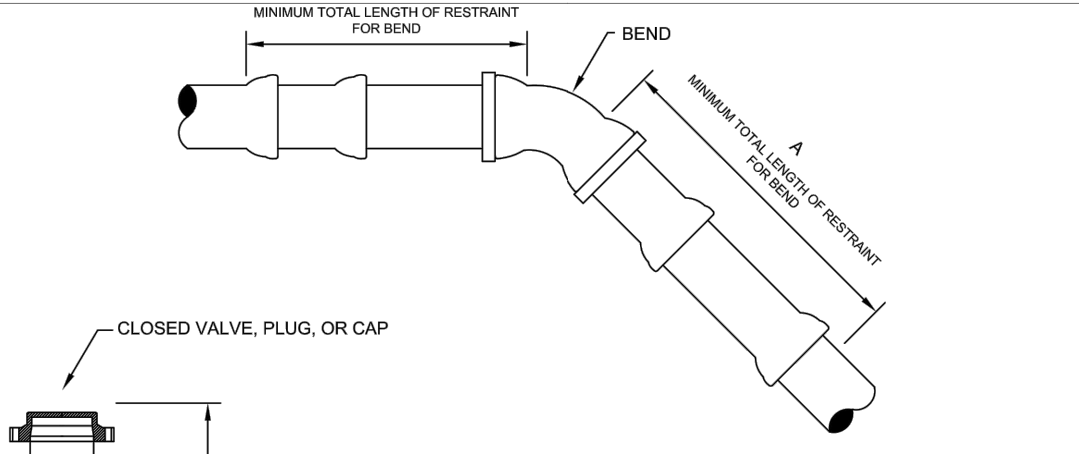


- NOTES:**
1. A FOUNDATION MAY BE REQUIRED IN VERY POOR SOIL (CLASS IV & V MATERIAL) CONDITIONS. FIELD DETERMINATION WILL BE PROVIDED BY GRU INSPECTOR. TYPICAL FOUNDATION THICKNESS SHALL BE 12", BUT MAY VARY ACCORDING TO NATURAL MATERIAL.
 2. BEDDING IS REQUIRED PRIMARILY TO BRING THE TRENCH BOTTOM UP TO GRADE. BEDDING MATERIALS SHALL PROVIDE A UNIFORM AND ADEQUATE LONGITUDINAL SUPPORT UNDER THE PIPE. IN DRY SOIL CONDITIONS CLASS II OR CLASS III MATERIAL SHALL BE HAND PLACED 4" TO 6". LIGHTLY COMPACTED, UNIFORM AND NOT FINER THAN THE FOUNDATION MATERIAL. IN WET SOIL CONDITIONS CLASS I, CLASS II OR CLASS III SHALL BE HAND PLACED 4" TO 6", UNIFORM AND NOT FINER THAN THE FOUNDATION MATERIAL. WHEN UTILIZING CLASS I MATERIAL, SUFFICIENT AMOUNTS OF CLASS II OR CLASS III MATERIAL SHALL BE ADDED TO FILL ALL VOIDS CREATED BY THE CLASS I MATERIAL.
 3. HAUNCHING MATERIAL SHALL BE HAND PLACED TO THE SPRINGLINE OF THE PIPE. CLASS II OR CLASS III MATERIAL SHALL BE CONSOLIDATED UNDER THE PIPE AND HAND TAMPED TO PROVIDE ADEQUATE SIDE SUPPORT.
 4. INITIAL BACKFILL MATERIAL SHALL BE CLASS II OR CLASS III. IT SHALL BE HAND PLACED TO 12" ABOVE THE TOP OF THE PIPE. THE SOIL SHALL BE CONSOLIDATED BY HAND TAMPING OR WALKING THE SOIL IN PLACE.
 5. FINAL BACKFILL MATERIAL MAY BE MACHINE PLACED. THE MATERIAL SHALL BE CLASS II OR CLASS III MATERIAL. CLASS IV MATERIAL MAY REQUIRE SPECIAL COMPACTION AND DENSITY TESTS. REFER TO CITY, COUNTY, OR FDOT STANDARDS, AS APPLICABLE.

Revision Date: 02/20/08
GRU More than Energy
 Gainesville Regional Utilities
 Potable Water Construction Details
BACKFILLING REQUIREMENTS



Revision Date: 02/20/08
GRU More than Energy
 Gainesville Regional Utilities
 Potable Water Construction Details
PIPE LAYING CONDITIONS



NOTE: THESE TABLES ARE FOR DIP ONLY; SEE NOTES BELOW FOR PVC

		RESTRAIN "A" (LF)									
		4"	6"	8"	12"	16"	20"	24"	30"	36"	
FITTING											
VALVE OR DEAD END		42	58	75	104	131	157	181	213	243	
90° BEND		24	33	42	58	72	85	97	112	126	
45°/OFFSET		10	14	18	24	30	35	40	47	53	
22½° BEND		5	7	9	12	15	17	20	23	26	
1½" BEND		3	4	5	6	8	9	10	12	13	

- NOTES:**
1. THIS TABLE IS BASED ON THE RESTRAIN CALCULATOR SOFTWARE PROVIDED FREE OF CHARGE BY EBA IRON INC. AT <http://www.eba.com/engineering.htm> AND THE FOLLOWING INPUT VARIABLES:
 A. MAXIMUM TEST PRESSURE OF 150 PSI
 B. LAYING CONDITION TYPE 3 (SEE DETAILS ON PAGE W-3.0)
 C. POOR SOIL CONDITIONS (SOIL TYPE M)
 D. USING D.I.P.
 E. 2 FEET OF COVER (NOTE: 2.5 TO 3 FEET OF COVER REQUIRED BY GRU)
 F. HORIZONTAL BENDS ONLY - ENGINEER TO SUBMIT CALCULATIONS FOR VERTICAL RESTRAINTS
 G. SAFETY FACTOR = 1.5 TO 1
 2. FOR POLYWRAPPED D.I.P., MULTIPLY THE FOOTAGE BY 1.50
 3. FOR PVC PIPE DIMENSIONS SEE PAGE W-2.8.1
 4. RESTRAINED PIPE SHALL BE MANUFACTURED RESTRAINED PIPE, PUSH-ON RESTRAINTS OR MECHANICAL RESTRAINTS
 5. ANY ADDITIONAL VALVES OR FITTINGS WITHIN THE RESTRAINED SECTION SHALL BE RESTRAINED ACCORDING TO THE LONGER DIMENSION.

Revision Date: 10/19/2018
GRU More than Energy
 Gainesville Regional Utilities
 Potable Water Construction Details
RESTRAINED JOINT STANDARD FOR BENDS, VALVES, PLUGS, AND CAPS

NOTE: THESE TABLES ARE FOR PVC PIPE ONLY; SEE W-2.8 OR W-2.9 FOR DIP

		RESTRAIN (LF)						
		4"	6"	8"	12"	16"	20"	24"
FITTING SIZE								
VALVE OR DEAD END		57	78	101	140	176	211	243
90° BEND		33	45	57	78	97	114	130
45°/OFFSET		14	19	24	33	41	47	54
22½° BEND		7	10	12	16	20	23	27
1½" BEND		4	6	7	8	11	12	14

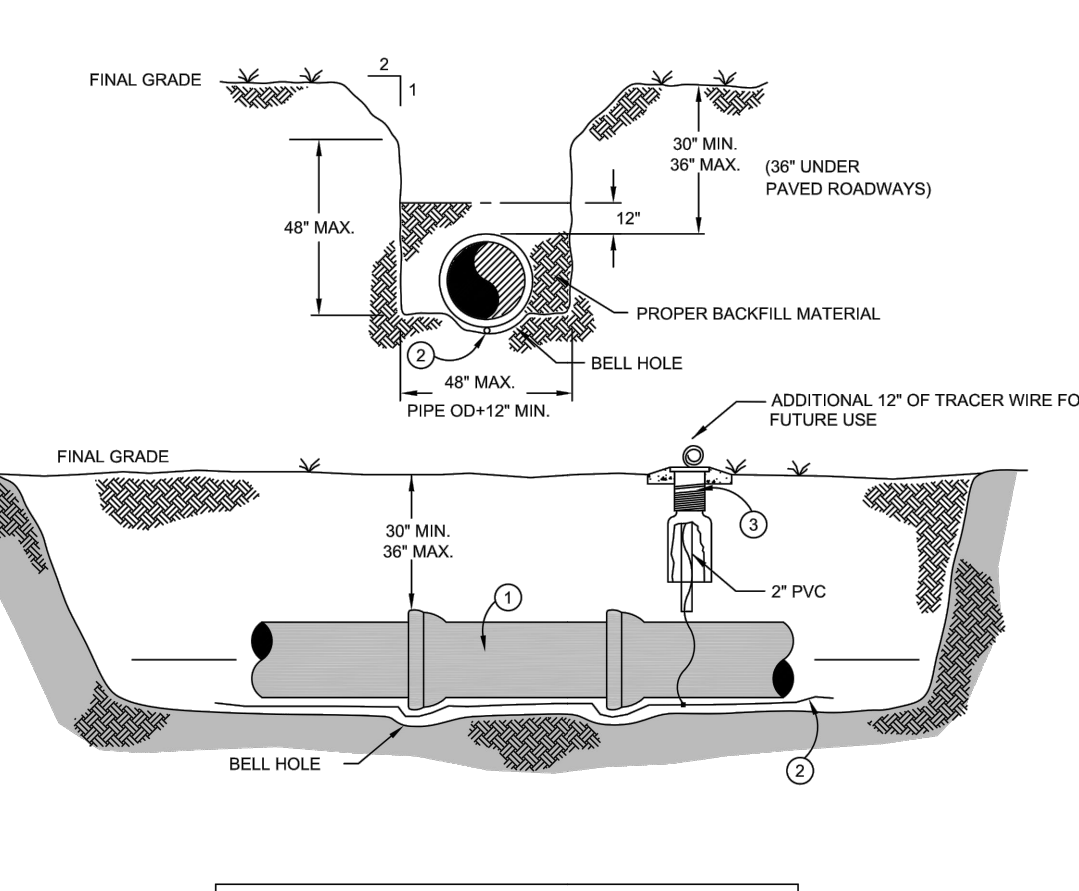
Revision Date: 10/24/18
GRU More than Energy
 Gainesville Regional Utilities
 Potable Water Construction Details
PVC RESTRAINED JOINT STANDARD FOR VALVES, BENDS, PLUGS, AND CAPS

NOTE: THESE TABLES ARE FOR DIP ONLY; SEE NOTES W-2.8.1 FOR PVC TABLES

		RESTRAIN (LF)		RESTRAIN (LF)	
		FITTING SIZE	REDUCER "B"	FITTING SIZE	REDUCER "B"
ANCHOR COUPLING		6x4	30	30x8	203
REDUCER		8x4	34	30x8	198
		8x6	32	30x12	177
		12x4	90	30x16	150
		12x6	76	30x20	116
		12x8	55	30x24	75
		16x6	111	36x6	235
		16x8	96	36x8	229
		16x12	56	36x12	214
		20x8	141	36x16	183
		20x8	130	36x20	166
		20x12	99	36x24	133
		20x16	55	36x30	74
		24x6	159		
		24x12	134		
		24x16	99		
		24x20	54		

- NOTES:**
1. THIS TABLE IS BASED ON THE RESTRAIN LENGTH CALCULATOR SOFTWARE PROVIDED FREE OF CHARGE BY EBA IRON INC. AT <http://www.eba.com/engineering.htm> AND THE FOLLOWING INPUT VARIABLES:
 A. MAXIMUM TEST PRESSURE OF 150 PSI
 B. LAYING CONDITION TYPE 3 (SEE DETAILS ON PAGE W-3.0)
 C. USING D.I.P.
 D. POOR SOIL CONDITIONS (SOIL TYPE M)
 E. 2 FEET OF COVER (NOTE: 2.5 TO 3 FEET OF COVER REQUIRED BY GRU)
 F. HORIZONTAL BENDS ONLY - ENGINEER TO SUBMIT CALCULATIONS FOR VERTICAL RESTRAINTS
 G. SAFETY FACTOR = 1.5 TO 1
 2. FOR POLYWRAPPED D.I.P., MULTIPLY THE FOOTAGE BY 1.50
 3. FOR PVC PIPE DIMENSIONS SEE PAGE W-2.8.1
 4. RESTRAINED PIPE SHALL BE MANUFACTURED RESTRAINED PIPE, PUSH-ON RESTRAINTS OR MECHANICAL JOINT PIPE RESTRAINED BY EBA METALUG.
 5. ANY ADDITIONAL VALVES OR FITTINGS WITHIN THE RESTRAINED SECTION SHALL BE RESTRAINED ACCORDING TO THE LONGER DIMENSION.

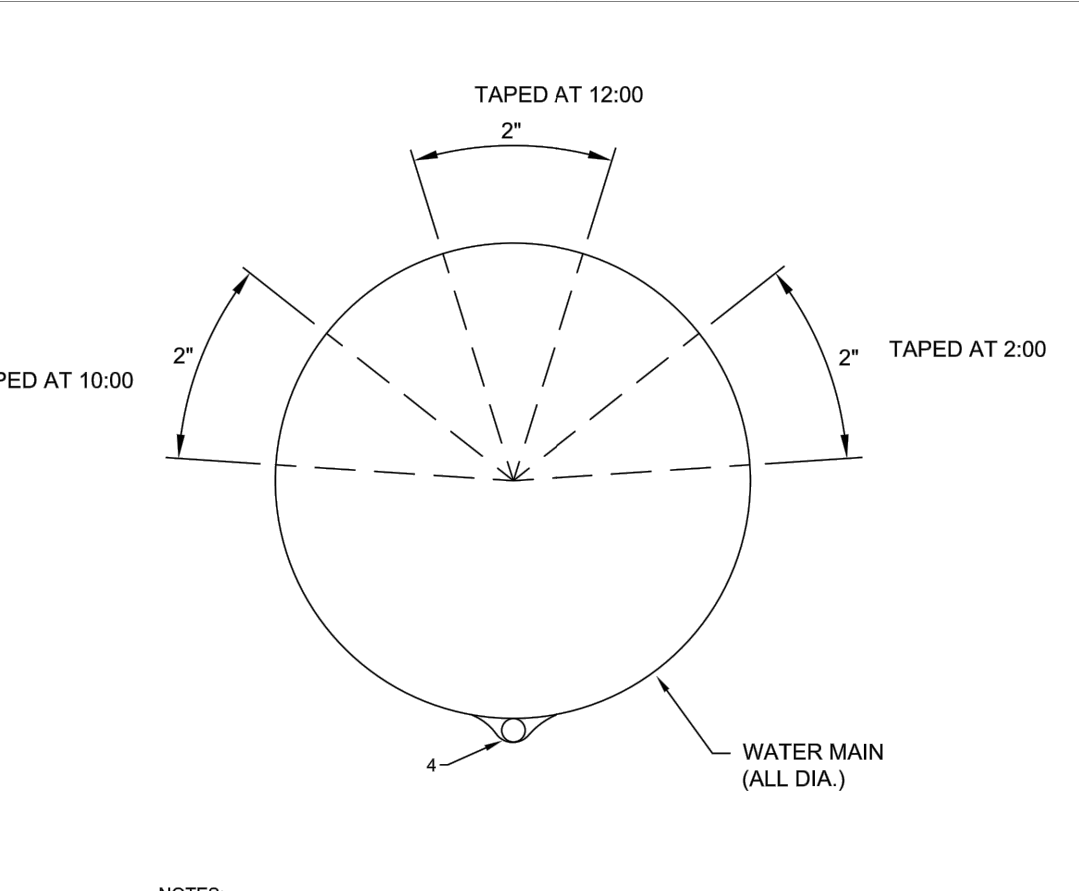
Revision Date: 12/11/18
GRU More than Energy
 Gainesville Regional Utilities
 Potable Water Construction Details
DIP RESTRAINED JOINT STANDARD FOR TEES AND REDUCERS



MATERIALS

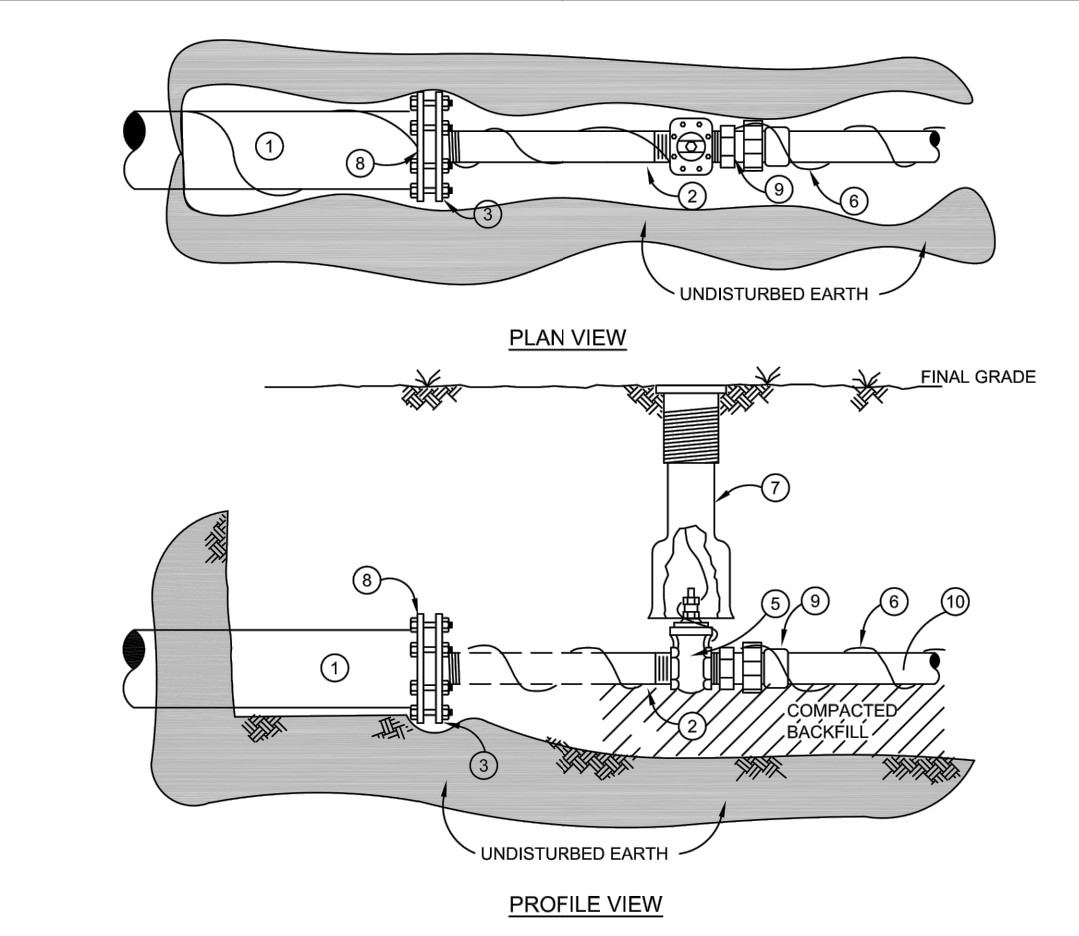
ITEM	DESCRIPTION
1	WATER MAIN PIPE
2	TRACER WIRE, BLUE, #10 AWG
3	VALVE BOX

Revision Date: 12/07/18
GRU More than Energy
 Gainesville Regional Utilities
 Potable Water Construction Details
WATER MAIN CONSTRUCTION



- NOTES:**
1. PVC PIPE SHALL BE BLUE AND LABELED "POTABLE WATER"
 2. HDPE PIPE SHALL BE BLUE OR HAVE CO-EXTRUDED BLUE STRIPES AND BE LABELED "POTABLE WATER"
 3. ALL OTHER PIPE MATERIAL SHALL BE IDENTIFIED WITH BLUE PAINT OR AN ADHESIVE-BACKED TAPE.
 4. THERE SHALL BE A MINIMUM OF THREE CONTINUOUS COLORED STRIPES OR TAPES ALONG THE PIPE, LOCATED AT 10:00, 12:00, AND 2:00 EACH A MINIMUM OF 2 INCHES WIDE.
 5. THERE SHALL BE A BLUE TRACER WIRE INSTALLED WITH ALL NON-METALLIC PIPES. NO EXCEPTIONS.

Revision Date: 10/23/18
GRU More than Energy
 Gainesville Regional Utilities
 Potable Water Construction Details
WATER MAIN PIPE IDENTIFICATION



MATERIALS

ITEM	DESCRIPTION
1	4", 6", 8", 12" PIPE, D.I. OR PVC (DR-18)
2	2" x 6" L LOW LEAD BRASS NIPPLE (INTO VALVE)
3	MJ x 2" FIP TAPPED CAP, D.I.
5	2" GATE VALVE, SQUARE NUT, RESILIENT WEDGE
6	TRACER WIRE, COPPER, INSULATED BLUE, #10 AWG
7	VALVE BOX
8	MESALUG BRASS GRIP JOINT COUPLING FORD CATALOG #C34-17-G-NL OR APPROVED EQUAL
9	2" MPT X COMP. PE TUBING, BLUE, SDR-9,CTS
10	2"

Revision Date: 11/9/2018
GRU More than Energy
 Gainesville Regional Utilities
 Potable Water Construction Details
WATER MAINS REDUCTION OF LINE SIZE

NO.	REVISIONS	DATE	BY
1	NOT FOR CONSTRUCTION		

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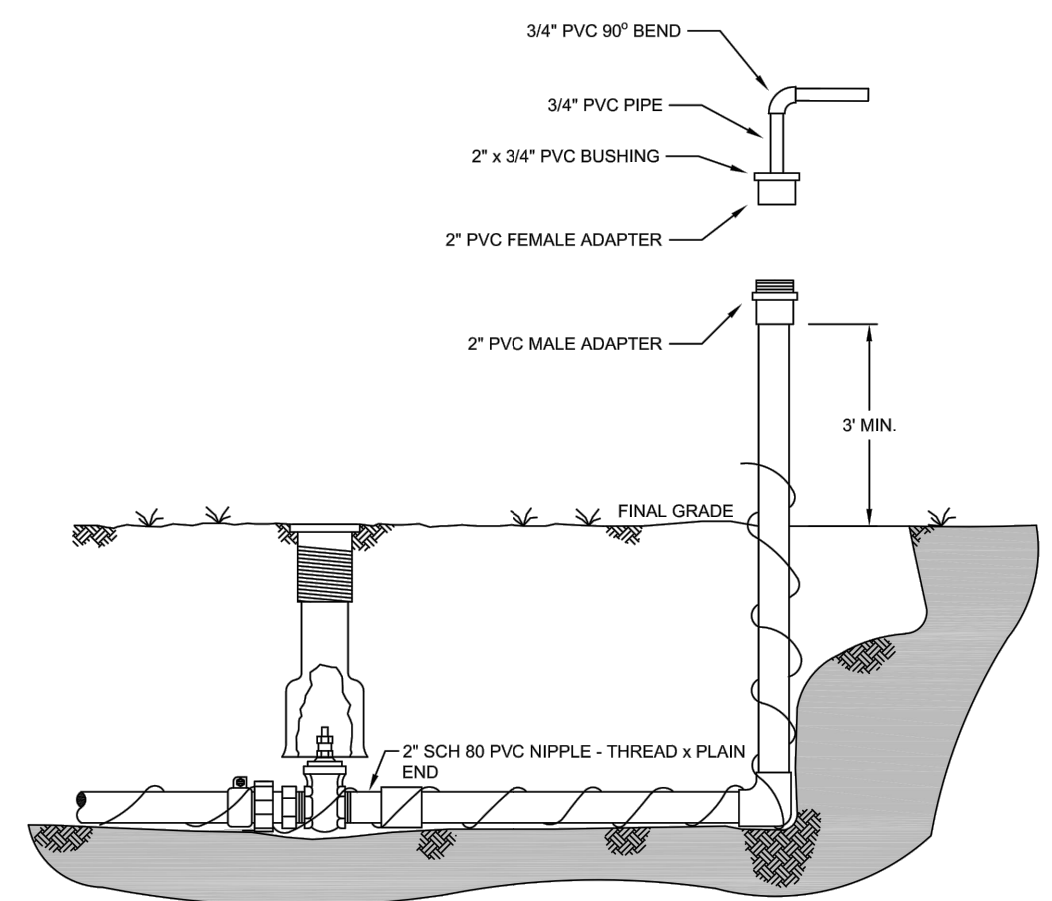
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 DAVID C. SOWELL
 FLORIDA LICENSE NUMBER 66531
 KHA PROJECT 142425000
 DATE DECEMBER 2023
 SCALE AS SHOWN
 DESIGNED BY KHA
 DRAWN BY KHA
 CHECKED BY KHA

UTILITY DETAILS

GAINESVILLE COTTAGES TND
 PREPARED FOR
SANDS COMPANIES, INC.
 ALACHUA COUNTY FLORIDA

K:\DOT_CAD\142425000-Gainesville Cottages TND\Drawings\CONSTRUCTION DETAILS.dwg, Layout:C7.10 UTILITY DETAILS Dec 21, 2023, delaney.makshon

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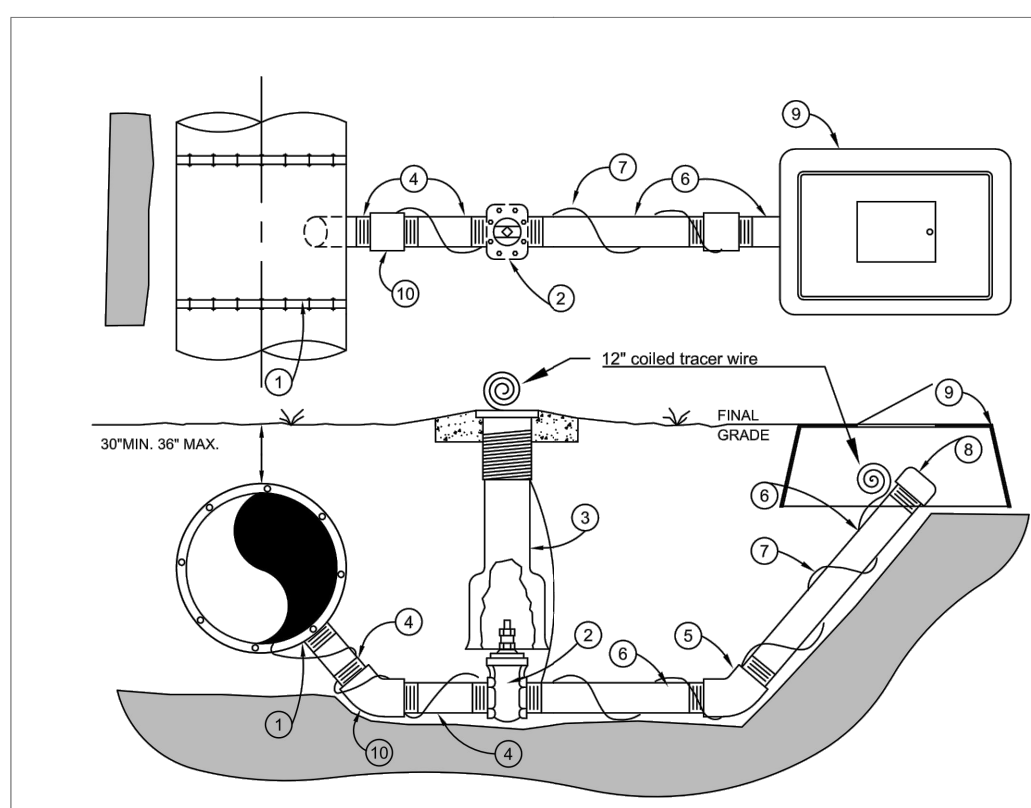
NOTE: SAMPLES WILL NOT BE COLLECTED UNDER UNSAFE CONDITIONS, INCLUDING SAMPLE POINTS BELOW GRADE, UNSTABLE SOIL, POOLED WATER GREATER THAN AN INCH DEPTH. SAMPLES WILL NOT BE COLLECTED UNDER RAIN OR MIST CONDITIONS. HOSE CONNECTIONS ARE NOT ALLOWED.

Revision Date: 12/10/18

GRU More than Energy

Gainesville Regional Utilities
Potable Water Construction Details
SAMPLE POINT ASSEMBLY

W-3.5.1



ITEM	DESCRIPTION
1	6" or 8" x 3" M/T TAPPED TEE (W/ EBMA MEGALUG RESTRAINT)
2	3" VALVE, GATE, SQUARE NUT, RESILIENT WEDGE
3	VALVE BOX, C.I.
4	3" x 4" L BRASS NIPPLE
5	3" x 45" PIPE, GALV.
6	3" x VARIES TRACER WIRE, BLUE
7	TRACER WIRE OUTSIDE (WHERE VERTICAL SPACE AVAILABLE)
8	3" GALV. CAP
9	METER BOX
10	3" x 45" BEND, BRASS

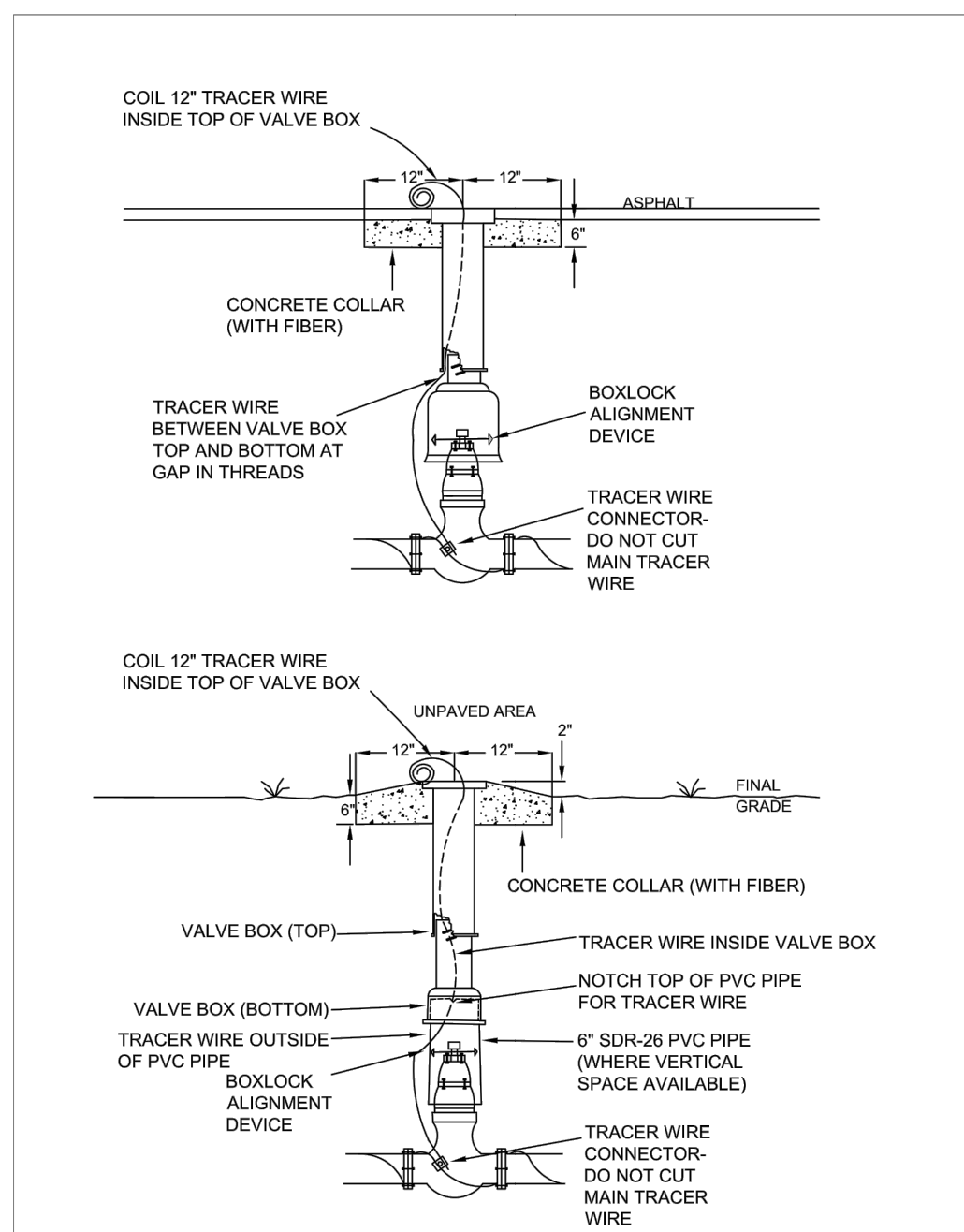
1. TRACER WIRE SHALL BE SPIRALED AROUND THE PIPE, TAPED EVERY TEN FEET AND CONNECTED TO THE MAIN LINE TRACER WIRE. CONNECT USING TRACER LOCK PART # TL-LUG-SS CONNECTORS.

Revision Date: 2/6/2019

GRU More than Energy

Gainesville Regional Utilities
Potable Water Construction Details
3" BLOW-OFF ASSEMBLY, PERPENDICULAR TO MAIN

W-3.7

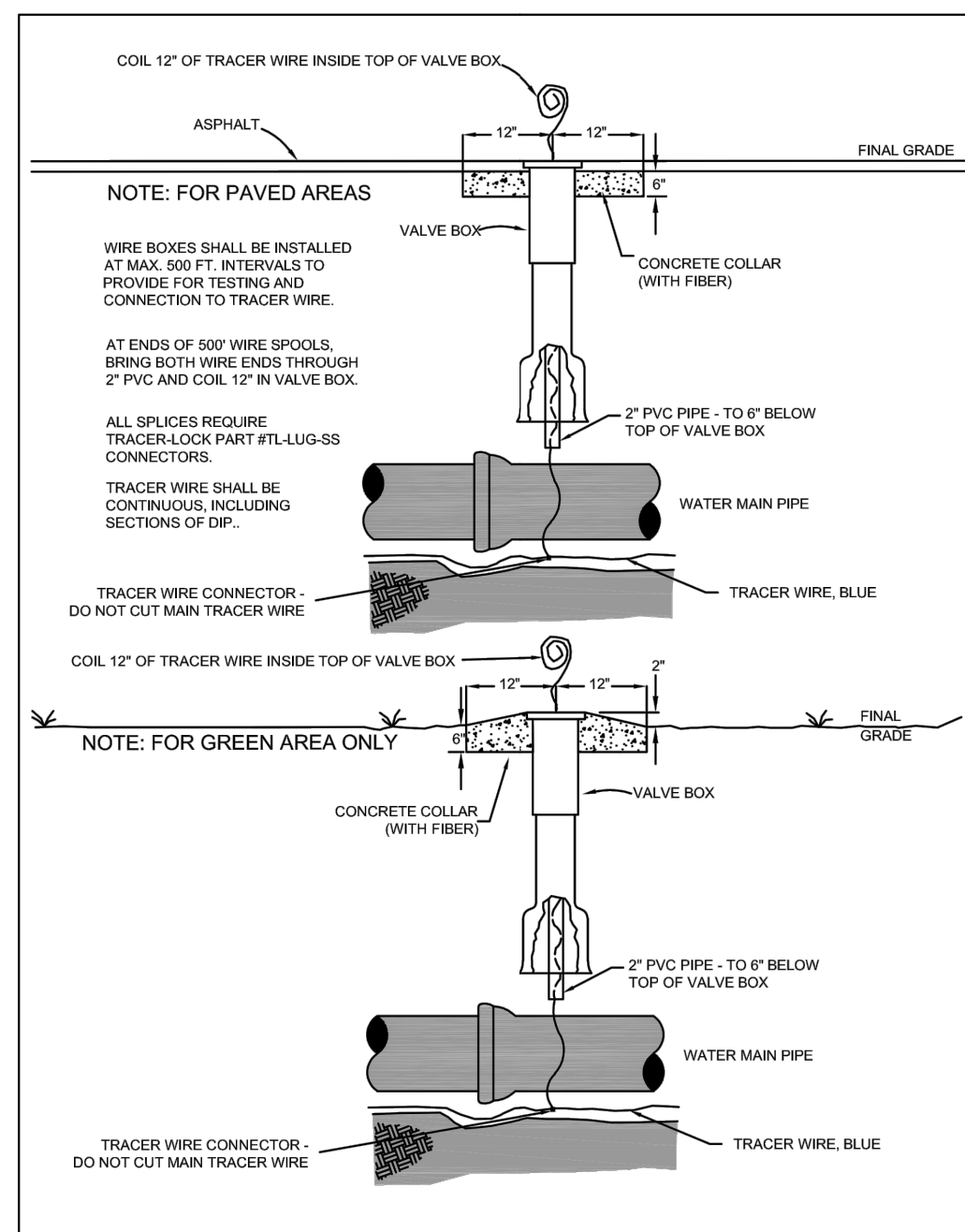


Revision Date: 5/02/2019

GRU More than Energy

Gainesville Regional Utilities
Potable Water Construction Details
VALVE BOX

W-4.1

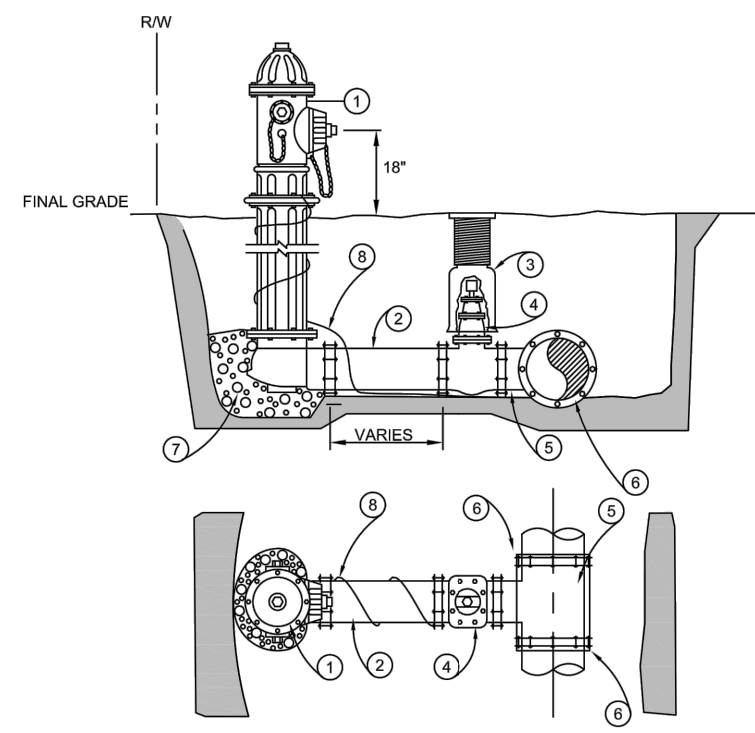


Revision Date: 3/26/2019

GRU More than Energy

Gainesville Regional Utilities
Potable Water Construction Details
TRACER WIRE BOX - WATER MAIN

W-4.2



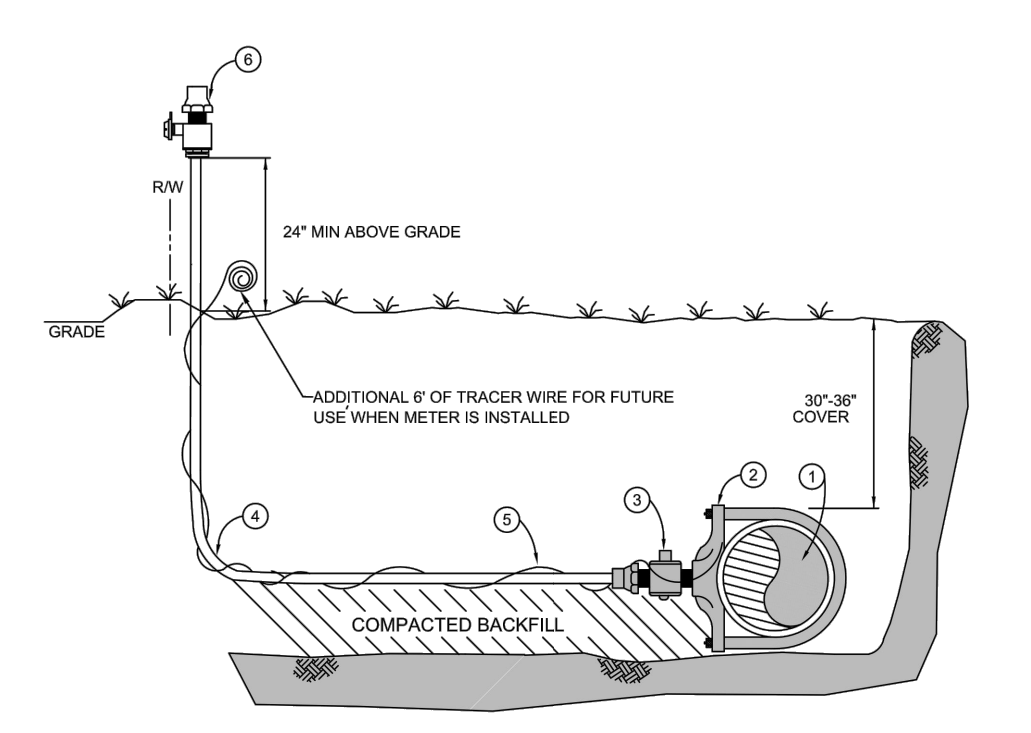
ITEM	DESCRIPTION
1	FIRE HYDRANT
2	ANCHOR COUPLING (RESTRAINED DIP FOR LONGER LENGTHS)
3	VALVE BOX, C.I.
4	GATE VALVE
5	ANCHOR TEE
6	MEGALUG - EBMA OR APPROVED EQUAL
7	GRAVEL DRAIN BED
8	TRACER WIRE, COPPER, BLUE INSULATED, #10 AWG

Revision Date: 12/10/2018

GRU More than Energy

Gainesville Regional Utilities
Potable Water Construction Details
FIRE HYDRANT PERPENDICULAR TO THE MAIN

W-5.1



ITEM	DESCRIPTION
1	4" 6" 8" 12" WATER MAIN
2	4" 6" 8" 12" SERVICE SADDLE W/ 1/2" O.D. (TAPERED THREADS)
3	1/2" O.D. x 1" COMP. CORPORATION STOP FOR PE TUBING (DRIP JOINT - FORD F1100-A-G-NL)
4	1" POLYETHYLENE TUBING, BLUE, SDR-9, CTS-MIN, 22.5" BEND RADIUS
5	TRACER WIRE, BLUE
6	5/8" x 3/4" WATER METER YOKE VALVE (FORD B94-324W-G-NL)
7	1" WATER METER YOKE VALVE (FORD B94-344W-G-NL)

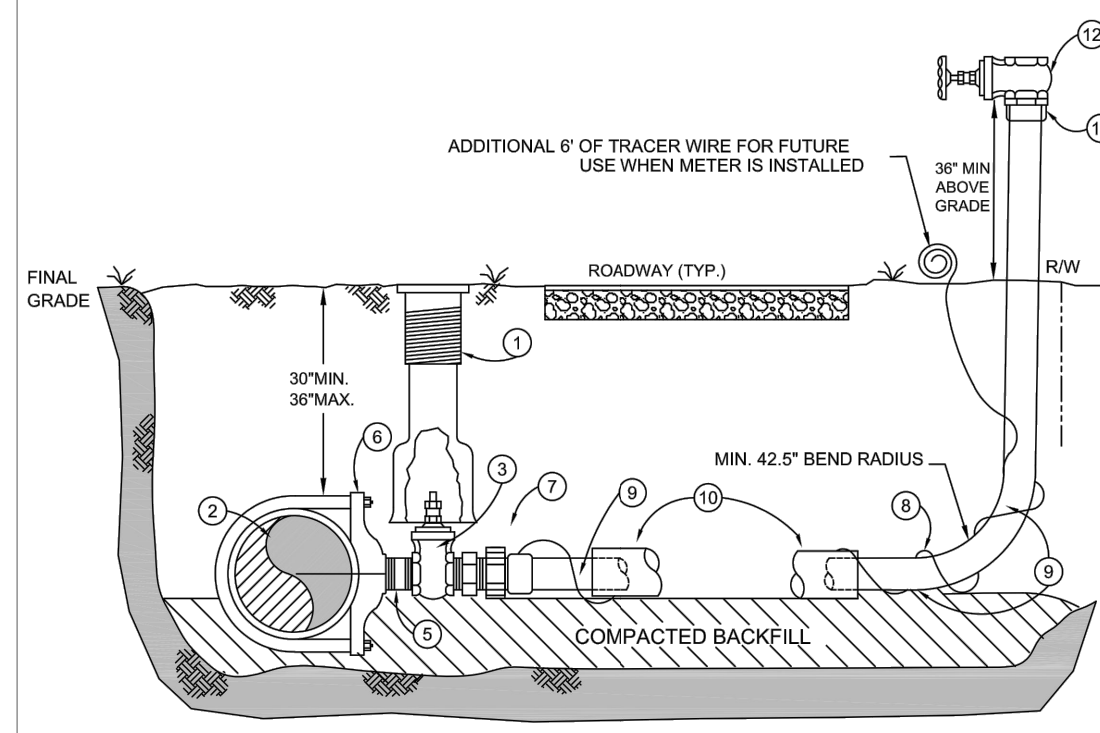
NOTES: 1. ALL FITTINGS FOR POLYETHYLENE TUBING ARE COMPRESSION TYPE (GRIP JOINT).
2. TRACER WIRE SHALL BE SPIRALED AROUND THE TUBING, TAPED EVERY TEN FEET AND CONNECTED TO THE MAIN LINE TRACER WIRE USING TRACER LOCK PART # TL-LUG-SS CONNECTORS.
3. NO INSERTS (STIFFENERS) SHALL BE PLACED IN BACK OF TUBING.
4. SEE W-8.0.1 FOR WATER METER ASSEMBLY INSTALLATION.
FORD - FORD METER BOX COMPANY

Revision Date: 3/01/2018

GRU More than Energy

Gainesville Regional Utilities
Potable Water Construction Details
POLYETHYLENE TUBING WATER SERVICE MAIN SIDE

W-7.0



ITEM	DESCRIPTION
1	VALVE BOX
2	4" 6" 8" 12" WATER MAIN
3	2" GATE VALVE, SQUARE NUT, RESILIENT WEDGE
5	2" x 6" LONG LOW LEAD BRASS NIPPLE
6	4" 6" 8" OR 12" x 2" SERVICE SADDLE OR TAPPED TEE
7	MP x CTS PE COMPRESSION COUPLING FORD CATALOG #C84-77-G-NL OR APPROVED EQUAL
8	TRACER WIRE, BLUE, # 10 AWG
9	2" CTS POLYETHYLENE WATER SERVICE, BLUE SDR-9
10	4" BLUE PVC SLEEVE, SCH-40
11	2" SHARKBITE MALE NPT ADAPTER S8115450M
12	2" BRASS GATE VALVE

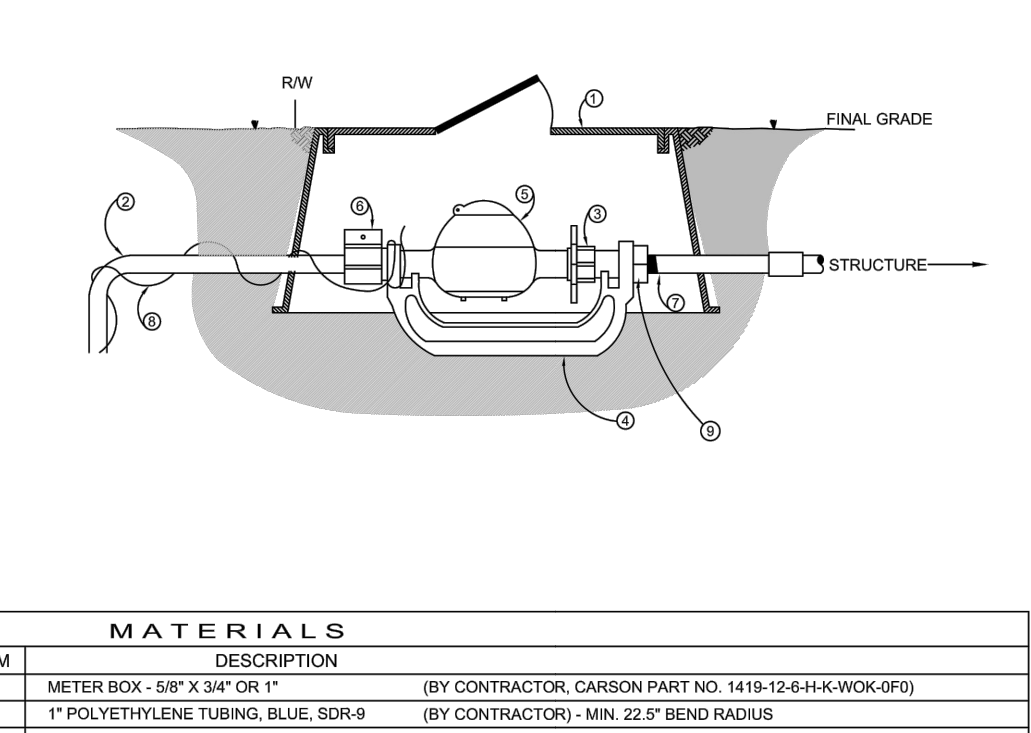
ITEMS 11 AND 12 TO BE REMOVED BY CONTRACTOR UPON ACCEPTANCE OF WATER SYSTEM BY GRU. CONTRACTOR TO INSTALL ALLANCE PLASTICS CO #60 PLUG INTO END OF POLYETHYLENE PIPE.

Revision Date: 12/10/2018

GRU More than Energy

Gainesville Regional Utilities
Potable Water Construction Details
2" CTS POLYETHYLENE SERVICE ROADWAY CROSSING

W-7.2



ITEM	DESCRIPTION
1	METER BOX - 5/8" x 3/4" OR 1" (BY CONTRACTOR, CARSON PART NO. 1419-12-64-K-WOK-05)
2	1" POLYETHYLENE TUBING, BLUE, SDR-9 (BY CONTRACTOR) - MIN. 22.5" BEND RADIUS
3	YOKE EXPANSION (BY GRU)
4	YOKE BAR - 5/8" x 3/4" (BY CONTRACTOR, FORD NO. Y-553)
5	YOKE BAR - 1" (BY CONTRACTOR, FORD NO. Y-504)
6	WATER METER - 5/8" x 3/4" OR 1" (BY GRU)
7	METER YOKE VALVE - 5/8" x 3/4" (BY CONTRACTOR, FORD B94-324W-G-NL OR B94-324W-G-NL)
8	METER YOKE VALVE - 1" (BY CONTRACTOR, FORD B94-344W-G-NL OR B94-344W-G-NL)
9	8" SCH 80 PVC THREADED NIPPLE (BY CONTRACTOR)
10	METER END CONNECTOR - 5/8" x 3/4" (BY CONTRACTOR, FORD D31-234-L)
11	METER END CONNECTOR - 1" (BY CONTRACTOR, FORD D31-44-L)

NOTES:
1. TRACER WIRE SHALL BE SPIRALED AROUND THE TUBING, TAPED EVERY TEN FEET AND CONNECTED TO THE MAIN LINE TRACER WIRE AND AT WYE USING TRACER LOCK PART # TL-LUG-SS CONNECTORS.
2. GAINESVILLE REGIONAL UTILITIES WILL INSTALL WATER METERS UNLESS OTHERWISE SPECIFIED ON THE APPROVED DRAWINGS.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF THE METER BOX AND METER YOKE ASSEMBLY (5/8" - 1" METERS).
4. NO INSERTS (STIFFENERS) SHALL BE PLACED INTO ENDS OF TUBING.
FORD - FORD METER BOX COMPANY

Revision Date: 12/10/2018

GRU More than Energy

Gainesville Regional Utilities
Potable Water Construction Details
POLYETHYLENE WATER METER ASSEMBLY BY CONTRACTOR: 5/8" x 3/4", 3/4", & 1"

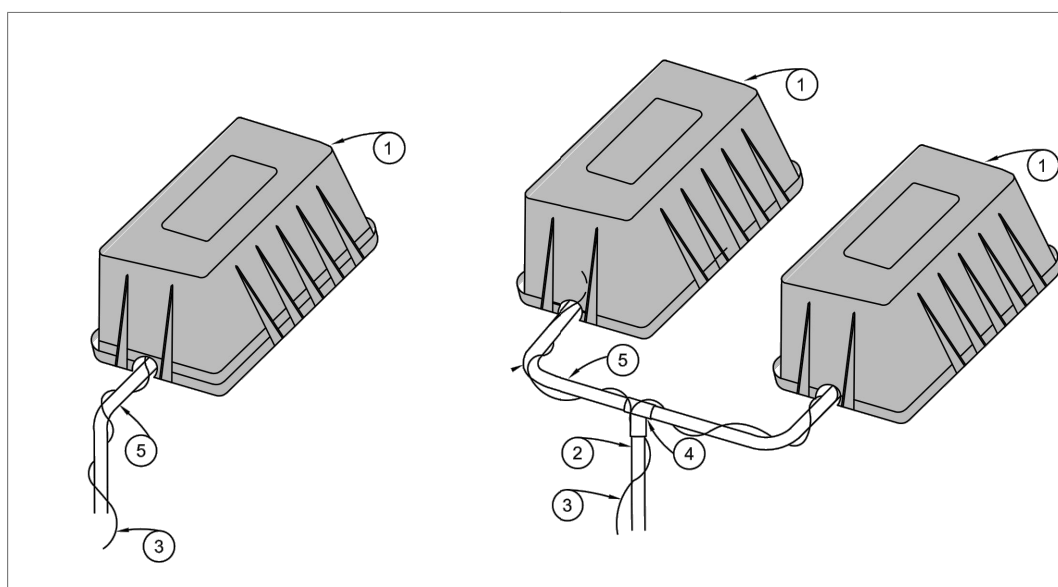
W-8.0.1

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PLOT#: 68589-142425000-entire-drawings-pl-utilities
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KHA PROJECT 142425000		LICENSED PROFESSIONAL	
DATE DECEMBER 2023		DAVID C. SOWELL	
SCALE AS SHOWN		FLORIDA LICENSE NUMBER 665531	
DESIGNED BY KHA		DRAWN BY KHA	
CHECKED BY KHA		DATE	
UTILITY DETAILS			
GAINESVILLE COTTAGES TND PREPARED FOR SANDS COMPANIES, INC. ALACHUA COUNTY FLORIDA			
SHEET NUMBER C7.11			
NOT FOR CONSTRUCTION			REVISIONS
No.	DATE	BY	

Kimley»Horn

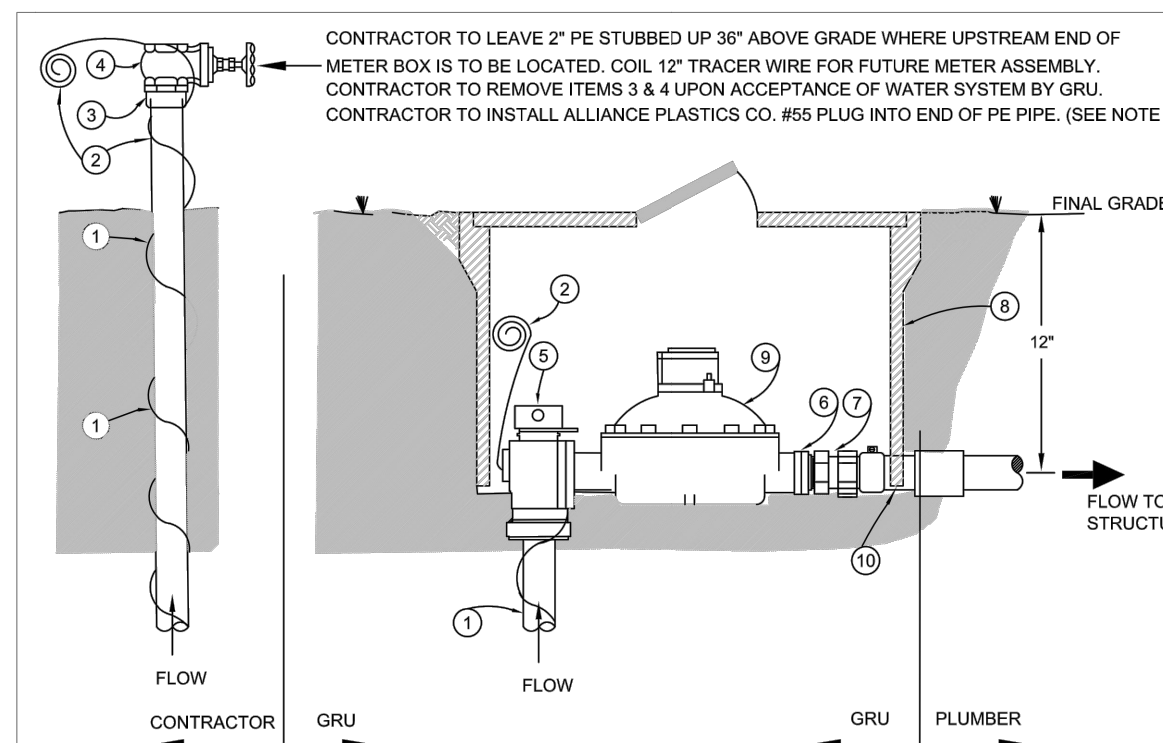
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800 SW 2ND AVENUE, SUITE 100, GAINESVILLE, FL 32601
PHONE: 352-374-3274
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106



MATERIALS	
ITEM	DESCRIPTION
1	METER BOX
2	2" POLYETHYLENE TUBING, BLUE, SDR-9, CTS
3	TRACER WIRE, COPPER, BLUE INSULATED, #10 AWG
4	1" X 1" X 2" BRASS GRIP JOINT TEE OR WYE (FORD Y44-274-G-NL)
5	1" POLYETHYLENE TUBING, BLUE, SDR-9, CTS-MIN. 22.5" BEND RADIUS

NOTES:
1. GAINESVILLE REGIONAL UTILITIES WILL INSTALL WATER METERS.

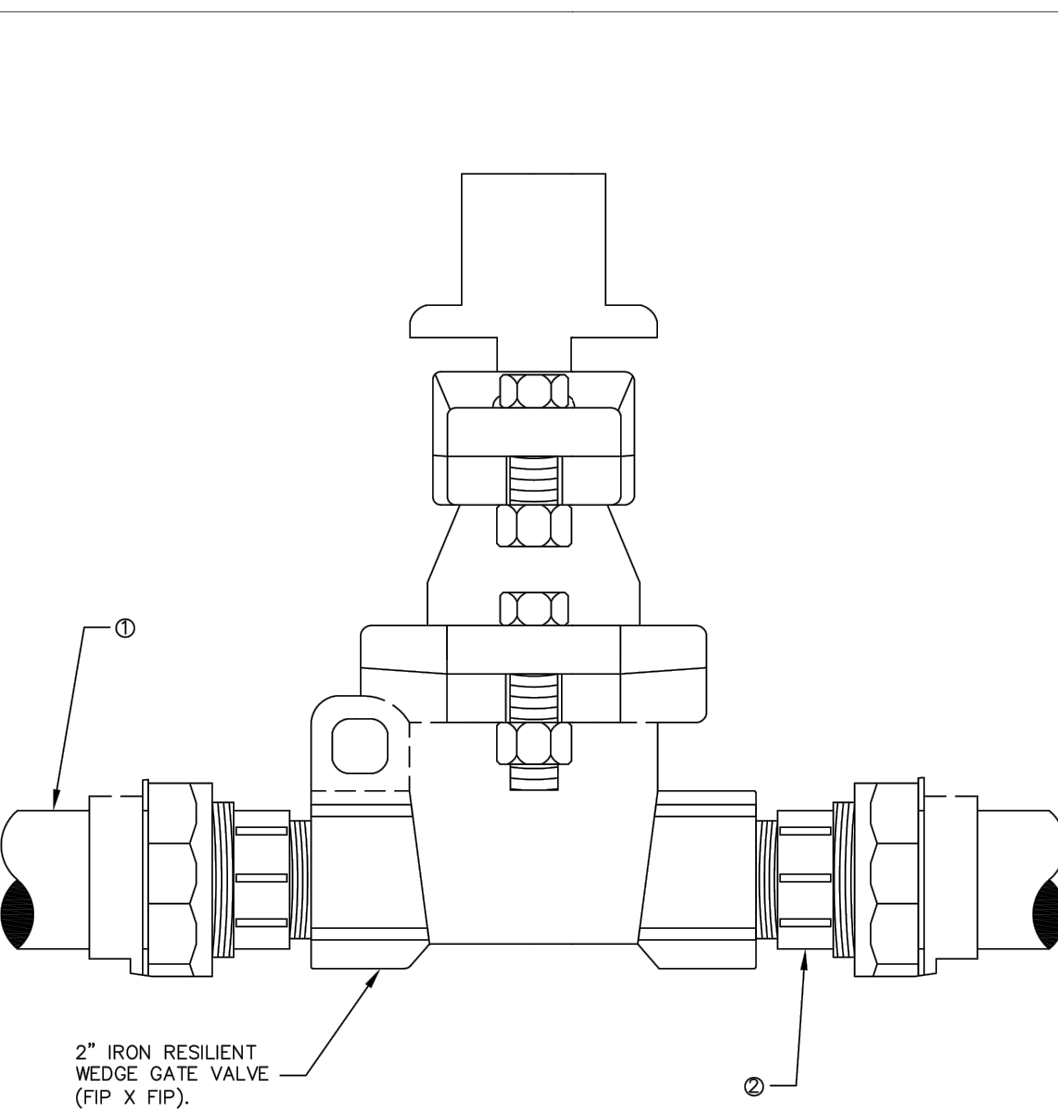
Revision Date: 12/05/2018
Gainesville Regional Utilities
 Potable Water Construction Details
 SINGLE & DUAL WATER METER ASSEMBLY CONSTRUCTION
 W-8.1



MATERIALS	
ITEM	DESCRIPTION
1	2" CTS BLUE SDR-9 POLYETHYLENE (PE) TUBING (BY CONTRACTOR)
2	TRACER WIRE, BLUE (BY CONTRACTOR)
3	SHARKBITE MALE NPT ADAPTER SB15450m (BY CONTRACTOR)
4	2" BRASS GATE VALVE (BY CONTRACTOR)
5	BRASS ANGLE METER STOP-A-Y, McDONALD 74602BCSQ (BY GRU)
6	BRASS FLANGE ADAPTER (BY GRU)
7	2" BRASS PACK JOINT COUPLING-FORD C87-77-NL (BY GRU)
8	METER BOX (CASCADILLA M666) IN TRAFFIC AREAS, CARSON 12H SERIES IN GREEN AREAS (BY GRU)
9	1-1/2", 2" WATER METER (BY GRU)
10	2" PVC PIPE (BY GRU)

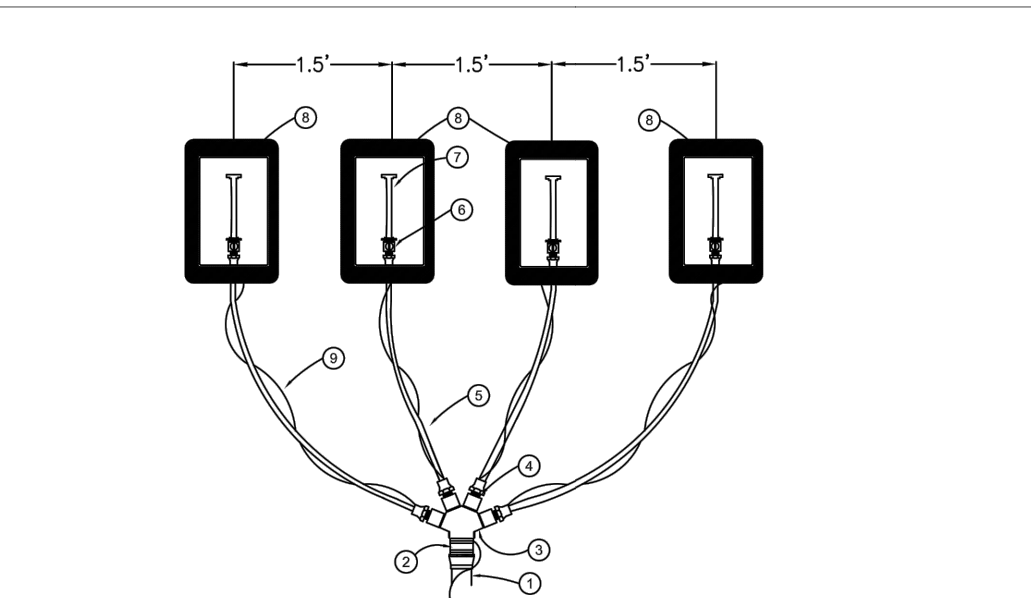
NOTES:
1. GAINESVILLE REGIONAL UTILITIES WILL INSTALL WATER METER ASSEMBLY.
2. TRACER WIRE SHALL BE SPIRALED AROUND THE TUBING, TAPED EVERY TEN FEET AND CONNECTED TO THE MAIN LINE TRACER WIRE USING TRACER-LOCK PART # TL-US-SS CONNECTORS.
3. NO INSERTS (STIFFENERS) SHALL BE PLACED INTO ENDS OF TUBING.
FORD = FORD METER BOX COMPANY

Revision Date: 03/22/19
Gainesville Regional Utilities
 Potable Water Construction Details
 WATER METER ASSEMBLY: 1 1/2" & 2"
 W-8.2



ITEM	DESCRIPTION	FORD PART #
1	2" POLYETHYLENE (PE) PIPE	C84-77-G-NL
2	2" BRASS GRIP JOINT COUPLING	C87-77-NL
3	2" PVC PIPE	

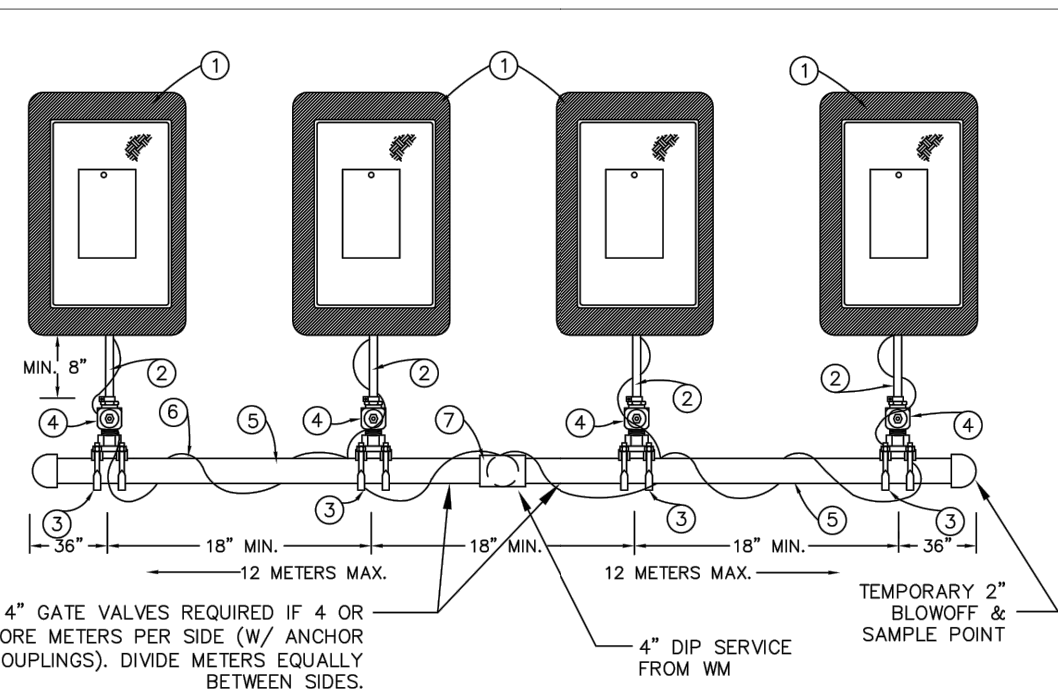
Revision Date: 9/28/2018
Gainesville Regional Utilities
 Potable Water Construction Details
 2" GATE VALVE INSTALLATION FOR PVC OR PE PIPE
 W-8.3.1



MATERIALS	
ITEM	DESCRIPTION
1	2" POLYETHYLENE TUBING, BLUE, SDR-9, CTS
2	2" NPT X COMP. BRASS GRIP JOINT COUPLING (FORD C84-77-G-NL)
3	2" X 1" FIP BRASS FOUR-SERVICE WYE (FORD Y-11-474-NL)
4	2" NPT X COMP. BRASS GRIP JOINT COUPLING (FORD C84-44-G-NL)
5	1" POLYETHYLENE TUBING, BLUE, SDR-9, CTS - MIN. 22.5" BEND RADIUS
6	5/8" 3/4" WATER METER YOKES (FORD 894-324H-G-NL or 894-324H-G-NL)
7	WATER METER YOKES (FORD 894-324H-G-NL or 894-324H-G-NL)
8	5/8" 3/4" YOKES BAR (FORD Y-90)
9	5/8" 3/4" OR 1" YOKES BAR (FORD Y-90)
10	METER BONGARSON 241618-13-6-4-H-WOK-GRF
11	TRACER WIRE, BLUE

NOTES:
1. ALL FITTINGS FOR POLYETHYLENE TUBING ARE COMPRESSION TYPE (GRIP JOINT).
2. TRACER WIRE SHALL BE SPIRALED AROUND THE TUBING, TAPED EVERY TEN FEET AND CONNECTED TO THE MAIN LINE TRACER WIRE AND AT WYE USING TRACER-LOCK PART # TL-US-SS CONNECTORS.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF THE METER BOX AND METER YOKES ASSEMBLY (5/8"-1" METERS). SEE WATER METER ASSEMBLY DETAIL W-8.0.1.
4. GAINESVILLE REGIONAL UTILITIES WILL INSTALL WATER METERS UNLESS OTHERWISE SPECIFIED ON THE APPROVED DRAWINGS.
5. NO INSERTS (STIFFENERS) SHALL BE PLACED INTO ENDS OF TUBING.
FORD = FORD METER BOX COMPANY

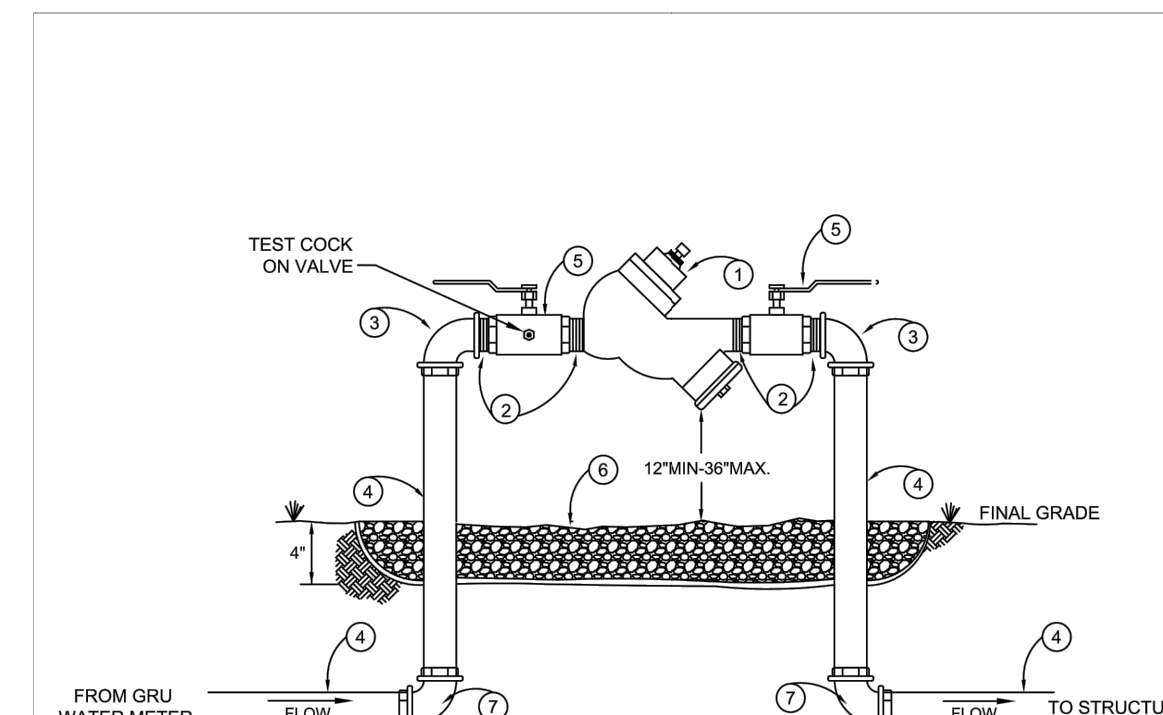
Revision Date: 4/12/2019
Gainesville Regional Utilities
 Potable Water Construction Details
 MULTIPLE GANG METER ASSEMBLY
 W-8.3.4



MATERIALS	
ITEM	DESCRIPTION
1	WATER METER BOX AND ASSEMBLY
2	PE TUBING, BLUE CTS SDR-9
3	4" X 1" COUPLING
4	1" COUPLING, GRIP JOINT (FORD F1000-4-G-NL)
5	4" D.I. PIPE
6	TRACER WIRE, BLUE
7	4" D.I. M.J. TEE

NOTES:
1. MULTIPLE GANG METER ASSEMBLY SHALL BE A MAXIMUM OF 24 METERS.
2. GAINESVILLE REGIONAL UTILITIES WILL INSTALL WATER METERS UNLESS OTHERWISE SPECIFIED ON THE APPROVED DRAWINGS.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF THE METER BOX AND METER YOKES ASSEMBLY (5/8"-1" METERS). SEE WATER METER ASSEMBLY DETAIL W-8.0.1.
4. ALL DUCTILE IRON FITTINGS SHALL BE MECHANICALLY RESTRAINED - EBAA OR APPROVED EQUAL.
5. TRACER WIRE SHALL BE SPIRALED AROUND THE PIPING, TAPED EVERY TEN FEET AND CONNECTED TO THE MAIN LINE TRACER WIRE. CONNECTIONS SHALL BE TRACER-LOCK PART # TL-US CONNECTORS.
6. NO INSERTS (STIFFENERS) SHALL BE PLACED INTO ENDS OF PE TUBING.

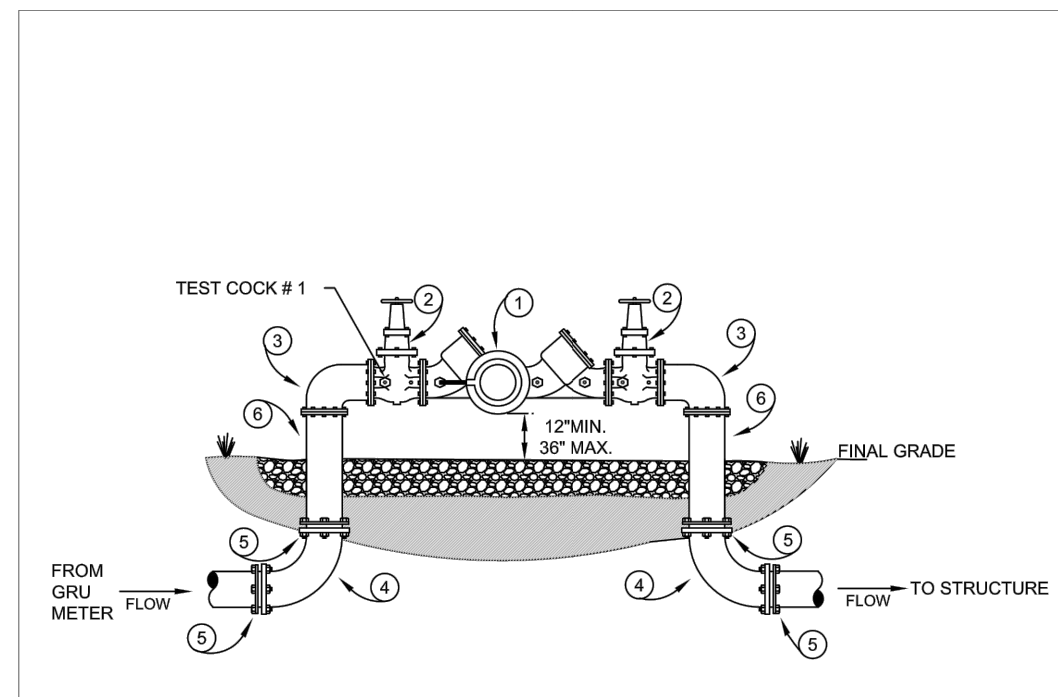
Revision Date: 02/05/2019
Gainesville Regional Utilities
 Potable Water Construction Details
 MULTIPLE GANG METER ASSEMBLY - DIP HEADER
 W-8.3.5



MATERIALS	
ITEM	DESCRIPTION
1	3/4" 1", 1-1/2", 2" REDUCED PRESSURE ZONE BACKFLOW PREVENTER
2	3/4" 1", 1-1/2", 2" BRASS NIPPLE
3	3/4" 1", 1-1/2", 2" BRASS 90 DEG ELBOW, MPT x GJ (FORD L84-xx-G-NL)
4	3/4" 1", 1-1/2", 2" BLUE PE WATER SERVICE TUBING, CTS, SDR-8
5	3/4" 1", 1-1/2", 2" 1/4 TURN BRASS BALL VALVE
6	GRAVEL BED (NO. 57 STONE)
7	3/4" 1", 1-1/2", 2" BRASS 90 DEG ELBOW, GRIP JOINT (FORD L44-xx-G-NL)

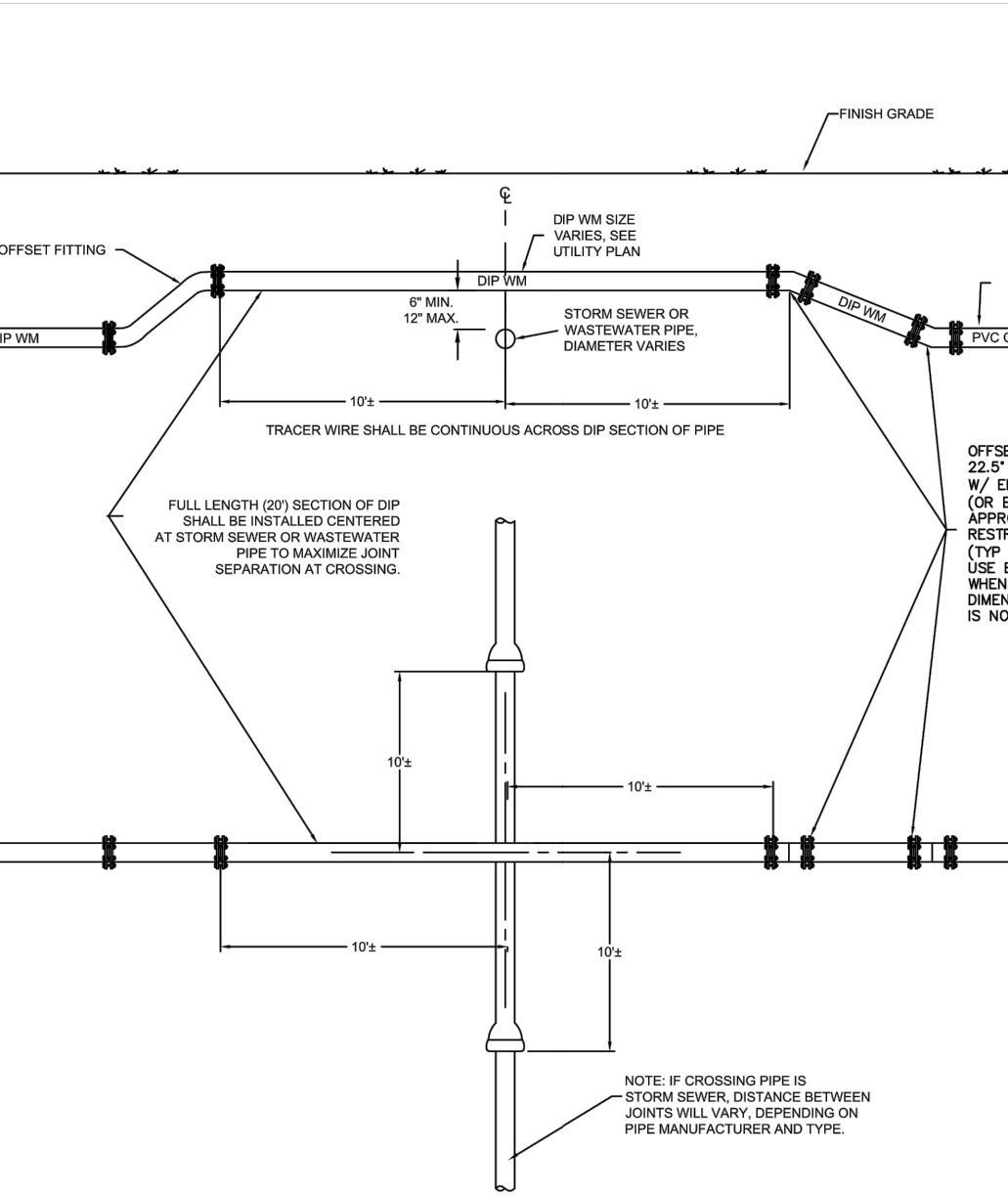
NOTE: FORD = FORD METER BOX COMPANY

Revision Date: 12/11/2018
Gainesville Regional Utilities
 Potable Water Construction Details
 REDUCED PRESSURE ZONE BACKFLOW PREVENTER SINGLE SERVICE: 3/4", 1", 1-1/2", 2"
 W-10.1



MATERIALS	
ITEM	DESCRIPTION
1	REDUCED PRESSURE BACKFLOW PREVENTER
2	GATE VALVE, FL X FL
3	BEND, DI, 90°, FL X FL
4	BEND, DI, 90°, MJ X MJ
5	MEGALUG, EBAA OR APPROVED EQUAL
6	PIPE, DIP, FL X PE

Revision Date: 12/11/18
Gainesville Regional Utilities
 Potable Water Construction Details
 REDUCED PRESSURE BACKFLOW PREVENTER SINGLE SERVICE: 3" - 10"
 W-10.2



ALTERNATE WATERMAIN CROSSING SECTION DETAIL
 NOTE: TO BE USED AT DISCRETION OF GRU WATER & WASTEWATER ENGINEERING.

Revision Date: 11/02/2018
Gainesville Regional Utilities
 Potable Water Construction Details
 ALTERNATE WATERMAIN CROSSING SECTION DETAIL
 W-10.4

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 PLOT: 6850m-142425000-external-plot.dwg
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KHA PROJECT 142425000		LICENSED PROFESSIONAL	
DATE DECEMBER 2023	SCALE AS SHOWN	DAVID C. SOWELL	FLORIDA LICENSE NUMBER 66531
DESIGNED BY KHA	DRAWN BY KHA	CHECKED BY KHA	
GAINESVILLE COTTAGES TND		UTILITY DETAILS	
PREPARED FOR SANDS COMPANIES, INC.		ALACHUA COUNTY FLORIDA	
SHEET NUMBER C7.12		NOT FOR CONSTRUCTION	
		REVISIONS	DATE
		No.	BY

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 PLOT: e:\share\142425000-external\external\142425000-external.dwg
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Potable Water Construction Details Page: W-10.5
TREE - WATER SEPARATION

FIBER-REINFORCED CONCRETE CAP, FLUSH WITH FINISHED GRADE, MIN. 12" x 4" COVER SECTION
 NOTE: LINE 1" DIA. HOLE SHALL BE DRILLED IN EACH PIECE OF SHEET PILE 2' FROM TOP EDGE AT JOINT TO FORM A BOND BETWEEN CONCRETE CAP AND SHEET PILE. SHEET PILE SHALL BE EMBEDDED 6" IN CONCRETE CAP.
 CURB
 SIDEWALK
 ROADWAY
 VINYL SHEET PILE OR STEEL SHEET PILE
 POTABLE WATER MAIN OR SERVICE
 12' Minimum (Min. embedment in each direction)
 7' Min. (7.5' FROM CENTERLINE OF PIPE)
 15' (7.5' FROM CENTERLINE OF PIPE)
SHEET PILE
 ALTERNATIVE PIPE PROTECTION FOR SEPARATIONS LESS THAN 7.5 FEET FROM TREES
 ALL DISTURBED EARTH OR NEW BACKFILL SHALL BE COMPACTED TO 90% OF MODIFIED PROCTOR (ASTM D 1557)
 ALL DISTURBED EARTH OR NEW BACKFILL SHALL BE COMPACTED TO 90% OF MODIFIED PROCTOR (ASTM D 1557)
 *Sheet pile joints to be filled with 50 year silicone caulk prior to placement.
 (If replacement is open trench)
 Revision Date: 8/31/09
GRU More than Energy
 Gainesville Regional Utilities
 Potable Water Construction Details
 SHEETPILE DETAIL
 W-10.5

Potable Water Construction Details Page: W-10.9
TREE SEPARATION FROM POTABLE WATER MAINS AND SERVICES

SEE NOTE 1 FOR TREE PLANTING REQUIREMENTS WITHIN THE ZONE
 SEE NOTE 2 FOR TREE PLANTING REQUIREMENTS WITHIN THE ZONE
 NO WATER MAINS SHALL BE PLANTED WITHIN THE ZONE
 NO WATER MAINS SHALL BE PLANTED WITHIN THE ZONE
 WATER LINE
 7' (3.5' FROM CENTERLINE OF PIPE)
 15' (7.5' FROM CENTERLINE OF PIPE)
 20' UTILITY EASEMENT (NO RESTRICTION ON TREES OUTSIDE THIS ZONE)
 ALL TREES PLANTED WITHIN THE UTILITY EASEMENT SHALL CONFORM TO THE GRU PLANTING MATRIX (SEE APPENDIX C)
 NOTE 1:
 IF "TREES OF SPECIAL INTEREST" ARE EXISTING WITHIN THIS ZONE, TRENCHLESS INSTALLATION TECHNIQUES, SUCH AS DIRECTIONAL BORING OR JACKING AND BORING OF A CASING PIPE SHALL BE USED THROUGHOUT THE TREE'S ROOT ZONE OF INFLUENCE, IF REQUIRED BY CITY ORDINANCE.
 NOTE 2:
 FOR NEW TREES PLANTED WITHIN THIS ZONE (SEE GRU PLANT MATRIX APPENDIX C), ONE OF THE FOLLOWING SHALL BE USED IN ORDER TO DETER THE INTRUSION OF ROOTS INTO THE SOIL ZONE AROUND THE UNDERGROUND INFRASTRUCTURE:
 1. SOILS IMMEDIATELY ADJACENT TO THE UNDERGROUND LINES SHALL BE COMPACTED TO A DENSITY OF 90% MODIFIED PROCTOR. THREE DENSITY TESTS SHALL BE TAKEN AT EACH TREE LOCATION, SPACED 7.5 FEET APART, CENTERED ON THE TREE. RESULTS SHALL BE SUBMITTED TO GRU FOR APPROVAL. OR
 2. ENCASE LINE WITH EXCAVATABLE, FLOWABLE FILL IN ACCORDANCE WITH SECTION 121 - FLOWABLE FILL, FDOT STANDARDS SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. OR
 3. WRAP TRENCH WITH GEO-TEXTILE FABRIC IMPREGNATED WITH INTEGRAL ROOT BARRIER NODULES. OR
 4. SOLID STRUCTURAL BARRIERS SUCH AS CAST-IN-PLACE OR PRE-CAST CONCRETE PANEL, STEEL OR HIGH DENSITY PLASTIC SHEET PILE WALL, OR STEEL CASING SIZED PER SECTION VIII.1 OF THE DESIGN STANDARDS.
 5. FOR EXISTING TREES, IF ALLOWED TO REMAIN, TRENCHLESS INSTALLATION TECHNIQUES, SUCH AS DIRECTIONAL BORING OR JACKING AND BORING OF A CASING PIPE WILL BE REQUIRED THROUGHOUT THE TREE'S ROOT ZONE OF INFLUENCE.
 FOR EACH OF THESE FIVE OPTIONS, THE METHOD SHALL BE USED FOR A MINIMUM HORIZONTAL DISTANCE OF 15 FEET, CENTERED ON THE TREE.
 Revision Date: 8/28/09
GRU More than Energy
 Gainesville Regional Utilities
 Potable Water Construction Details
 TREE SEPARATION FROM POTABLE WATER MAINS AND SERVICES
 W-10.9

Wastewater Construction Details Page: WW-2.0
PVC PIPE SELECTION & COVER REQUIREMENTS

TABLE 2.01 PVC PIPE SELECTION - WASTEWATER SYSTEMS					
NO.	COVER CONDITION	PIPE MATERIAL	PIPE DR RATING	TESTING SPEC.	USE
1.	3' < COVER < 6'	PVC	DR 25	AWWA C900	FORCE MAIN (4" DIA. THROUGH 12" DIA.)
2.	3' < COVER < 6'	PVC	DR 18	AWWA C905	FORCE MAIN (16" DIA. & GREATER)
3.	3' < COVER < 20'	PVC	SDR 26	ASTM D 3034	GRAVITY SEWER MAIN
4.	20' < COVER < 25'	PVC	DR 18	AWWA C900 PC150	GRAVITY SEWER MAIN

NOTE: OUTSIDE DIAMETER / WALL THICKNESS = STANDARD DIMENSION RATIO (SDR) OR DIMENSION RATIO (DR)
 Revision Date: 4/10/2017
GRU More than Energy
 Gainesville Regional Utilities
 Wastewater Construction Details
 PVC PIPE SELECTION & COVER REQUIREMENTS
 WW-2.0

Wastewater Construction Details Page: WW-2.2
BACKFILLING REQUIREMENTS

30" MIN.
 72" MAX. (FORCE MAIN)
 25" MAX. (GRAVITY MAIN)
 5
 4
 3
 2
 1
 FINAL BACKFILL
 INITIAL BACKFILL
 PIPE EMBEDMENT
 HAUNCHING
 BEDDING
 FOUNDATION - 12" TYPICAL
 NOTES:
 1. A FOUNDATION MAY BE REQUIRED IN VERY POOR SOIL CONDITIONS. FIELD DETERMINATION WILL BE PROVIDED BY GRU INSPECTOR. TYPICAL FOUNDATION THICKNESS SHALL BE 12" BUT MAY VARY ACCORDING TO NATURAL MATERIAL.
 2. BEDDING IS REQUIRED PRIMARILY TO BRING THE TRENCH BOTTOM UP TO GRADE. BEDDING MATERIALS SHALL PROVIDE A UNIFORM AND ADEQUATE LONGITUDINAL SUPPORT UNDER THE PIPE. IN DRY SOIL CONDITIONS CLASS I OR CLASS II MATERIAL SHALL BE HAND PLACED 4" TO 6", LIGHTLY COMPACTED, UNIFORM AND NOT FINER THAN THE FOUNDATION MATERIAL. IN WET SOIL CONDITIONS CLASS I OR CLASS II SHALL BE HAND PLACED 4" TO 6", UNIFORM AND NOT FINER THAN THE FOUNDATION MATERIAL. WHEN UTILIZING CLASS MATERIAL, SUFFICIENT AMOUNTS OF CLASS II OR CLASS III MATERIAL SHALL BE ADDED TO FILL ALL VOIDS CREATED BY THE CLASS I MATERIAL.
 3. HAUNCHING MATERIAL SHALL BE HAND PLACED TO THE SPRINGLINE OF THE PIPE. CLASS II OR CLASS III MATERIAL SHALL BE CONSOLIDATED UNDER THE PIPE AND HAND TAMPED TO PROVIDE ADEQUATE SIDE SUPPORT.
 4. INITIAL BACKFILL MATERIAL SHALL BE CLASS II OR CLASS III. IT SHALL BE HAND PLACED TO 12" ABOVE THE TOP OF THE PIPE. THE SOIL SHALL BE CONSOLIDATED BY HAND TAMPING OR WALKING THE SOIL IN PLACE.
 5. FINAL BACKFILL MATERIAL MAY BE MACHINE PLACED. THE MATERIAL SHALL BE CLASS II OR CLASS III MATERIAL. CLASS IV MATERIAL MAY BE INSTALLED OUTSIDE OF THE ROADWAY. FINAL BACKFILL UNDER ROADWAYS MAY REQUIRE SPECIAL COMPACTION AND DENSITY TESTS. REFER TO CITY, COUNTY, OR FDOT STANDARDS, AS APPLICABLE.
 Revision Date: 2/20/08
GRU More than Energy
 Gainesville Regional Utilities
 Wastewater Construction Details
 BACKFILLING REQUIREMENTS
 WW-2.2

Wastewater Construction Details Page: WW-2.3
PIPE ZONE TERMINOLOGY

SPRING LINE OF PIPE
 12"
 INITIAL BACKFILL
 EMBEDMENT MATERIAL
 HAUNCHING
 BEDDING MAX. 6"
 FOUNDATION (MAY NOT BE REQUIRED)
EMBEDMENT MATERIALS
 CLASS I: ANGULAR, #2 TO 1/2" GRADED STONE, INCLUDING A NUMBER OF FILL MATERIALS THAT HAVE REGIONAL SIGNIFICANCE SUCH AS CORAL, SLAG, CINDERS, CRUSHED STONE AND CRUSHED SHELLS.
 CLASS II: COARSE SANDS AND GRAVELS WITH MAXIMUM PARTICLE SIZE OF 1 1/2" INCLUDING VARIOUS GRADED SANDS AND GRAVELS CONTAINING SMALL PERCENTAGES OF FINES, GENERALLY GRANULAR AND NON-COHESIVE, EITHER WET OR DRY. AASHTO SOIL TYPES A-1 AND A-2 ARE INCLUDED IN THIS CLASS.
 CLASS III: FINE SAND AND CLAYEY GRAVELS, INCLUDING FINE SANDS, SAND-CLAY MIXTURES AND GRAVEL-CLAY MIXTURES. AASHTO SOIL TYPES A-3 AND A-4 ARE INCLUDED IN THIS CLASS.
 CLASS IV: SILT, SILTY CLAYS AND CLAYS, INCLUDING INORGANIC CLAYS AND SILTS OF MEDIUM TO HIGH PLASTICITY AND LIQUID LIMITS. AASHTO SOIL TYPES A-5, A-6, A-7 AND A-8 ARE INCLUDED IN THIS CLASS. THESE MATERIALS ARE NOT TO BE USED FOR BEDDING, HAUNCHING OR INITIAL BACKFILL.
 CLASS V: THIS CLASS INCLUDES THE ORGANIC SOILS, AS WELL AS SOILS CONTAINING FROZEN EARTH, DEBRIS, ROCKS LARGER THAN 1" IN DIAMETER AND OTHER FOREIGN MATERIALS. THESE MATERIALS ARE NOT TO BE USED FOR BEDDING, HAUNCHING OR INITIAL BACKFILL.
 Revision Date: 2/20/08
GRU More than Energy
 Gainesville Regional Utilities
 Wastewater Construction Details
 SOIL CLASSIFICATION
 WW-2.3

Wastewater Construction Details Page: WW-2.6
PIPE BEDDING & BACKFILL

TYPE 1: FLAT-BOTTOM TRENCH - "LOOSE BACKFILL"
 TYPE 2: FLAT-BOTTOM TRENCH - "BACKFILL LIGHTLY CONSOLIDATED TO CENTERLINE OF PIPE."
 TYPE 3: PIPE BEDDED IN 4-INCH MINIMUM LOOSE SOIL - "BACKFILL LIGHTLY CONSOLIDATED TO TOP OF PIPE."
 TYPE 4: PIPE BEDDED IN SAND, GRAVEL, OR CRUSHED STONE TO DEPTH OF 1/8 PIPE DIAMETER, 4-INCH MINIMUM. BACKFILL COMPACTED TO TOP OF PIPE (APPROXIMATELY 80% STANDARD PROCTOR, AASHTO T-99).
 TYPE 5: PIPE BEDDED TO ITS CENTERLINE IN COMPACTED GRANULAR MATERIAL, 4-INCH MINIMUM UNDER PIPE. COMPACTED GRANULAR OR SELECT MATERIAL - TO TOP OF PIPE (APPROXIMATELY 90% STANDARD PROCTOR, AASHTO T-99).
 NOTES:
 CONSIDERATION OF THE PIPE-ZONE EMBEDMENT CONDITIONS INCLUDED IN THIS FIGURE MAY BE INFLUENCED BY FACTORS OTHER THAN PIPE STRENGTH. FOR ADDITIONAL INFORMATION ON PIPE BEDDING AND BACKFILL, SEE AWWA/C900.
 *FOR NOMINAL PIPE SIZES 14-INCH AND LARGER.
 **"FLAT BOTTOM" IS DEFINED AS UNDISTURBED EARTH CONSIDERATION SHOULD BE GIVEN TO THE USE OF LAYING CONDITIONS OTHER THAN TYPE 1.
 ***"LOOSE SOIL" OR "SELECT MATERIAL" IS DEFINED AS "NATIVE SOIL EXCAVATED FROM THE TRENCH, FREE OF ROCKS, FOREIGN MATERIAL, AND FROZEN EARTH".
 Revision Date: 2/20/08
GRU More than Energy
 Gainesville Regional Utilities
 Wastewater Construction Details
 PIPE BEDDING & BACKFILL
 WW-2.6

Wastewater Construction Details Page: WW-4.1
WASTEWATER GRAVITY MAIN CONSTRUCTION

FINAL GRADE
 30" MIN.
 PIPE DEPTH AND SLOPE AS REQUIRED BY CONSTRUCTION SPECIFICATIONS AND DRAWINGS
 PROPER BACKFILL MATERIAL
 BELL HOLE
 VARIES
 PIPE OD+12" MIN.
 FINAL GRADE
 PIPE DEPTH AND SLOPE AS REQUIRED BY CONSTRUCTION SPECIFICATIONS AND DRAWINGS
 BELL HOLE
MATERIALS

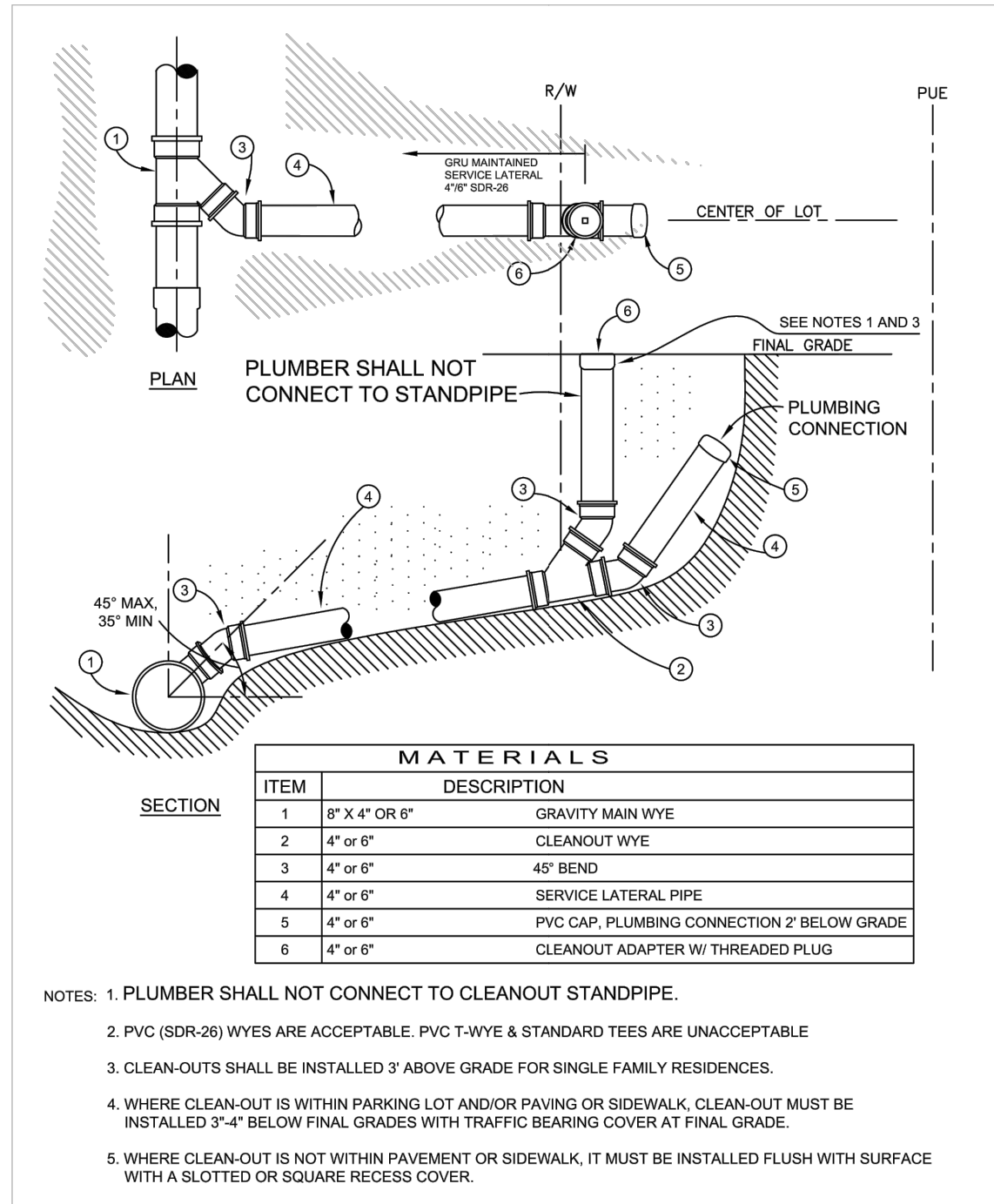
ITEM	DESCRIPTION
1	GRAVITY SEWER MAIN PIPE

 NOTES:
 1. GRAVITY MAIN PIPE SHALL BE INSTALLED AT THE LINE AND GRADE AS SHOWN ON THE GRU APPROVED CONSTRUCTION DRAWINGS.
 2. PIPE MATERIAL SHALL CONFORM TO WW-2.0.
 Revision Date: 2/20/08
GRU More than Energy
 Gainesville Regional Utilities
 Wastewater Construction Details
 WASTEWATER GRAVITY MAIN CONSTRUCTION
 WW-4.1

Wastewater Construction Details Page: WW-4.2
WASTEWATER MAIN PIPE IDENTIFICATION

TAPED AT 12:00
 2"
 2"
 2"
 TAPED AT 2:00
 WASTEWATER MAIN (ALL DIA.)
 NOTES:
 1. PVC PIPE SHALL BE GREEN AND LABELED "WASTEWATER" OR "SEWER"
 2. ALL OTHER PIPE MATERIAL SHALL BE IDENTIFIED WITH IMBEDDED GREEN STRIPES. HDPE GRAVITY SEWER PIPE SHALL HAVE IMBEDDED EXTERNAL GREEN STRIPES AND BE GREY INSIDE, FOR EFFECTIVE USE OF CCTV FOR INSPECTION.
 3. THERE SHALL BE A MINIMUM OF THREE CONTINUOUS COLORED STRIPES ALONG THE PIPE (LOCATED AT 10:00, 12:00, AND 2:00) AT A MINIMUM OF 2 INCHES WIDE.
 4. THERE SHALL BE A GREEN TRACER WIRE INSTALLED WITH PLASTIC PIPES, NO EXCEPTIONS.
 Revision Date: 3/26/2018
GRU More than Energy
 Gainesville Regional Utilities
 Wastewater Construction Details
 WASTEWATER MAIN PIPE IDENTIFICATION
 WW-4.2

KHA PROJECT 142425000 DATE DECEMBER 2023 SCALE AS SHOWN DESIGNED BY KHA DRAWN BY KHA CHECKED BY KHA	LICENSED PROFESSIONAL DAVID C. SOWELL FLORIDA LICENSE NUMBER 665531 WWW.KIMLEY-HORN.COM REGISTRY NO. 35106	KIMLEY-HORN © 2023 KIMLEY-HORN AND ASSOCIATES, INC. 800 SW 2ND AVENUE, SUITE 100, GAINESVILLE, FL 32601 PHONE: 352-374-3274 WWW.KIMLEY-HORN.COM	NOT FOR CONSTRUCTION REVISIONS No. DATE BY
GAINESVILLE COTTAGES TND PREPARED FOR SANDS COMPANIES, INC. ALACHUA COUNTY FLORIDA			SHEET NUMBER C7.13



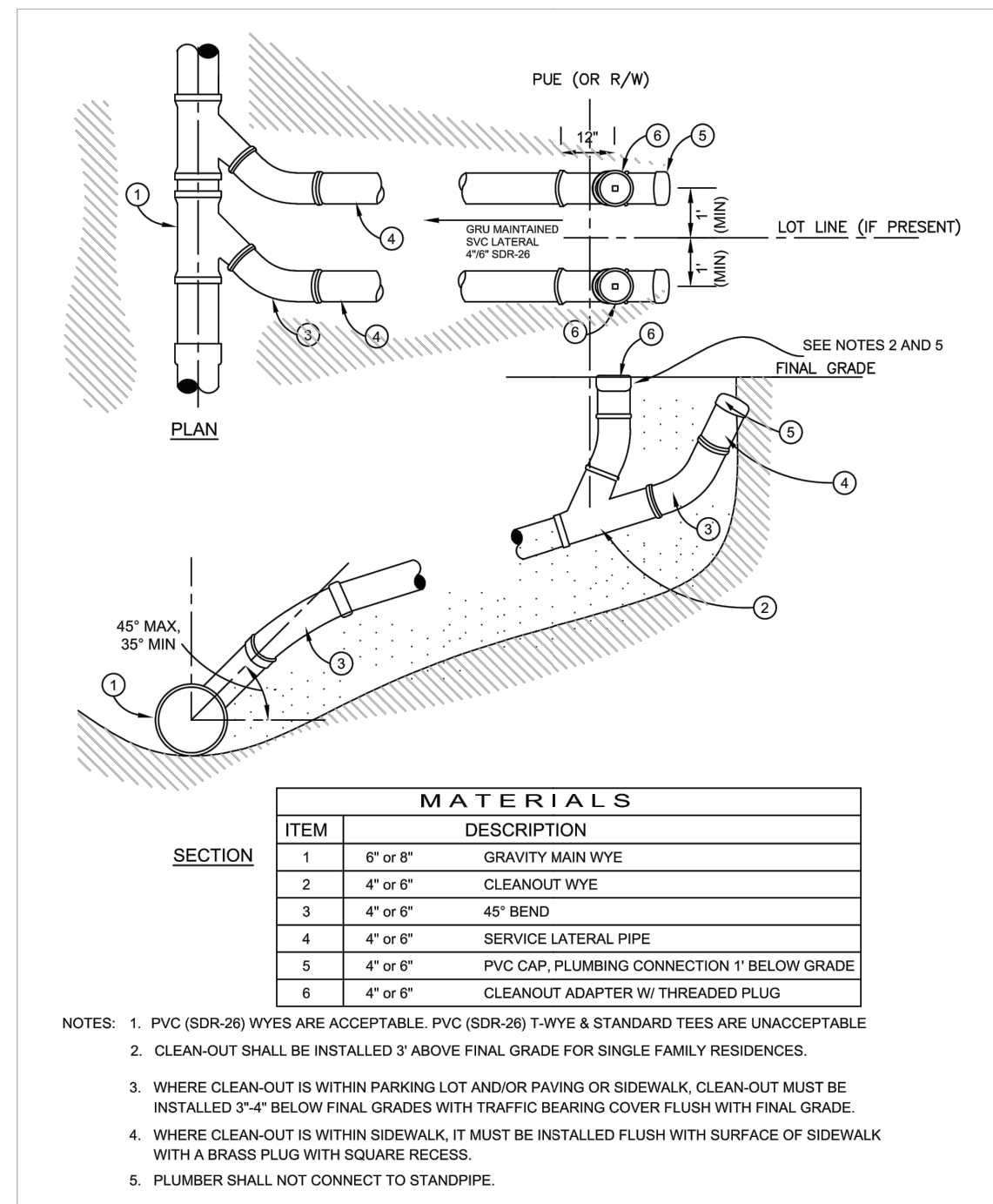
Revision Date: 4/17/2019

GRU More than Energy

Gainesville Regional Utilities
Wastewater Construction Details

WASTEWATER SERVICE LATERAL STUBOUT

WW-5.0



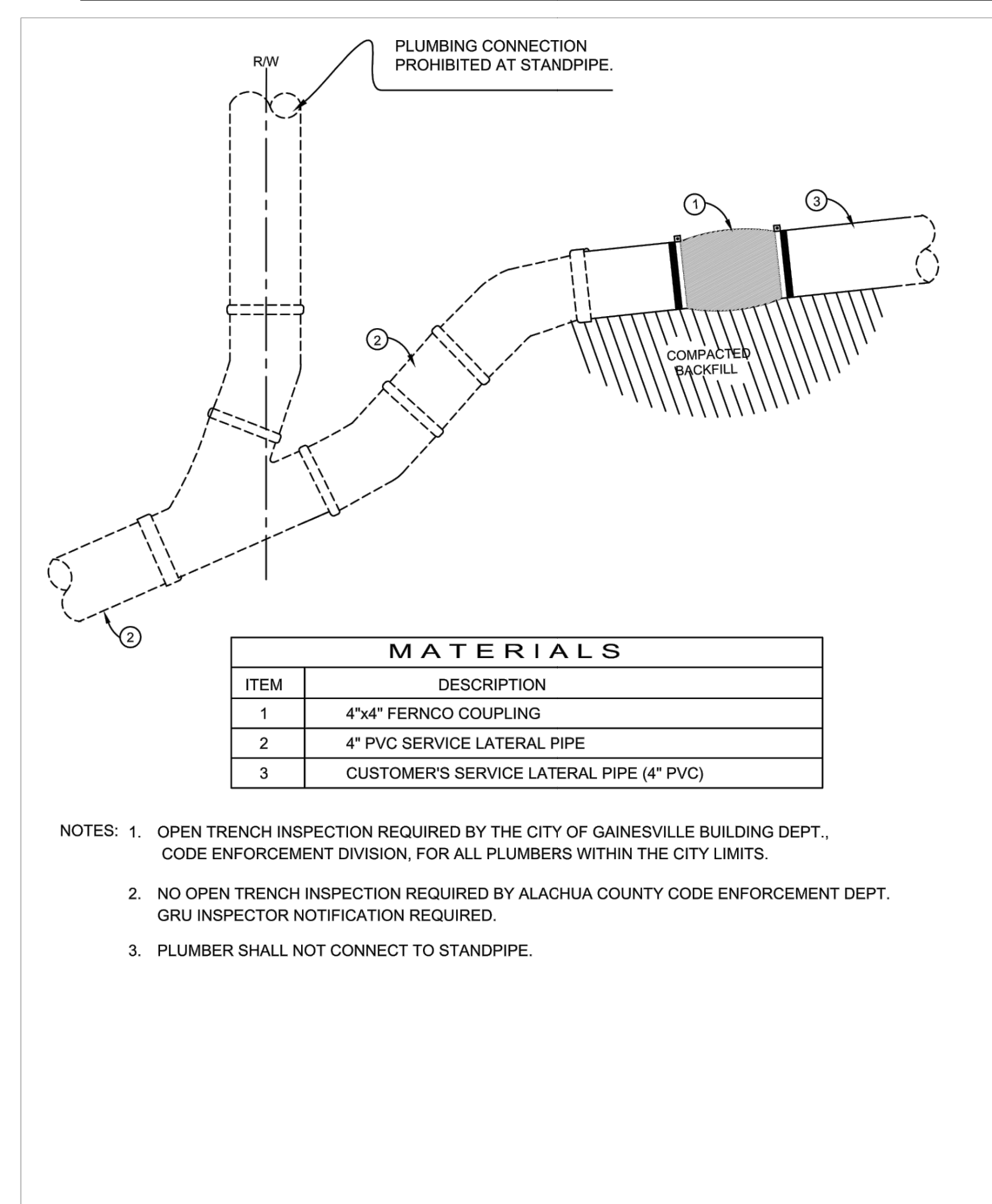
Revision Date: 4/10/2017

GRU More than Energy

Gainesville Regional Utilities
Wastewater Construction Details

WASTEWATER DOUBLE SERVICE LATERAL

WW-5.1



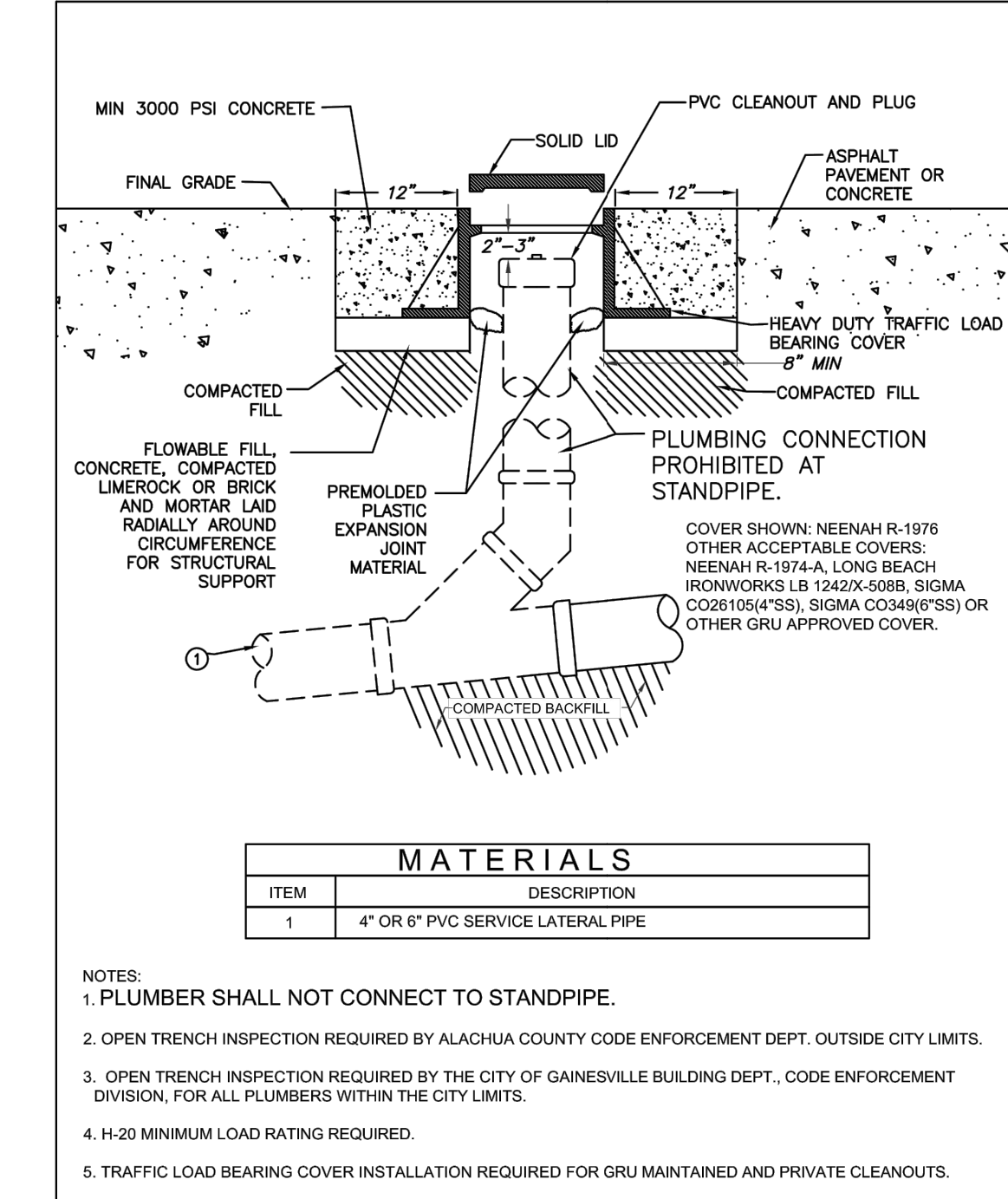
Revision Date: 4/10/2017

GRU More than Energy

Gainesville Regional Utilities
Wastewater Construction Details

WASTEWATER SERVICE LATERAL CONNECTION BY PLUMBER

WW-5.2



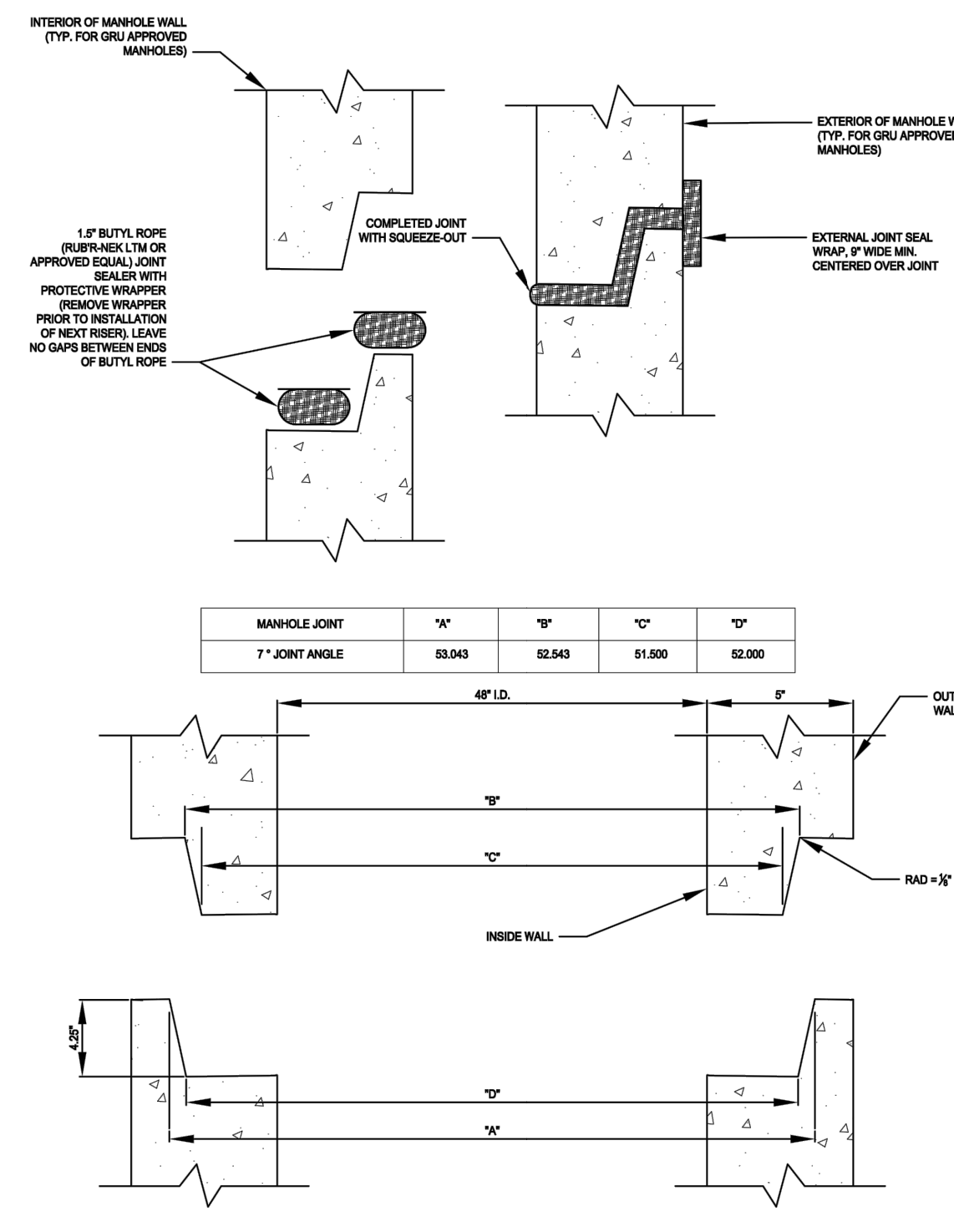
Revision Date: 1/31/2019

GRU More than Energy

Gainesville Regional Utilities
Wastewater Construction Details

WASTEWATER CLEANOUT WITH TRAFFIC LOAD BEARING COVER

WW-5.3



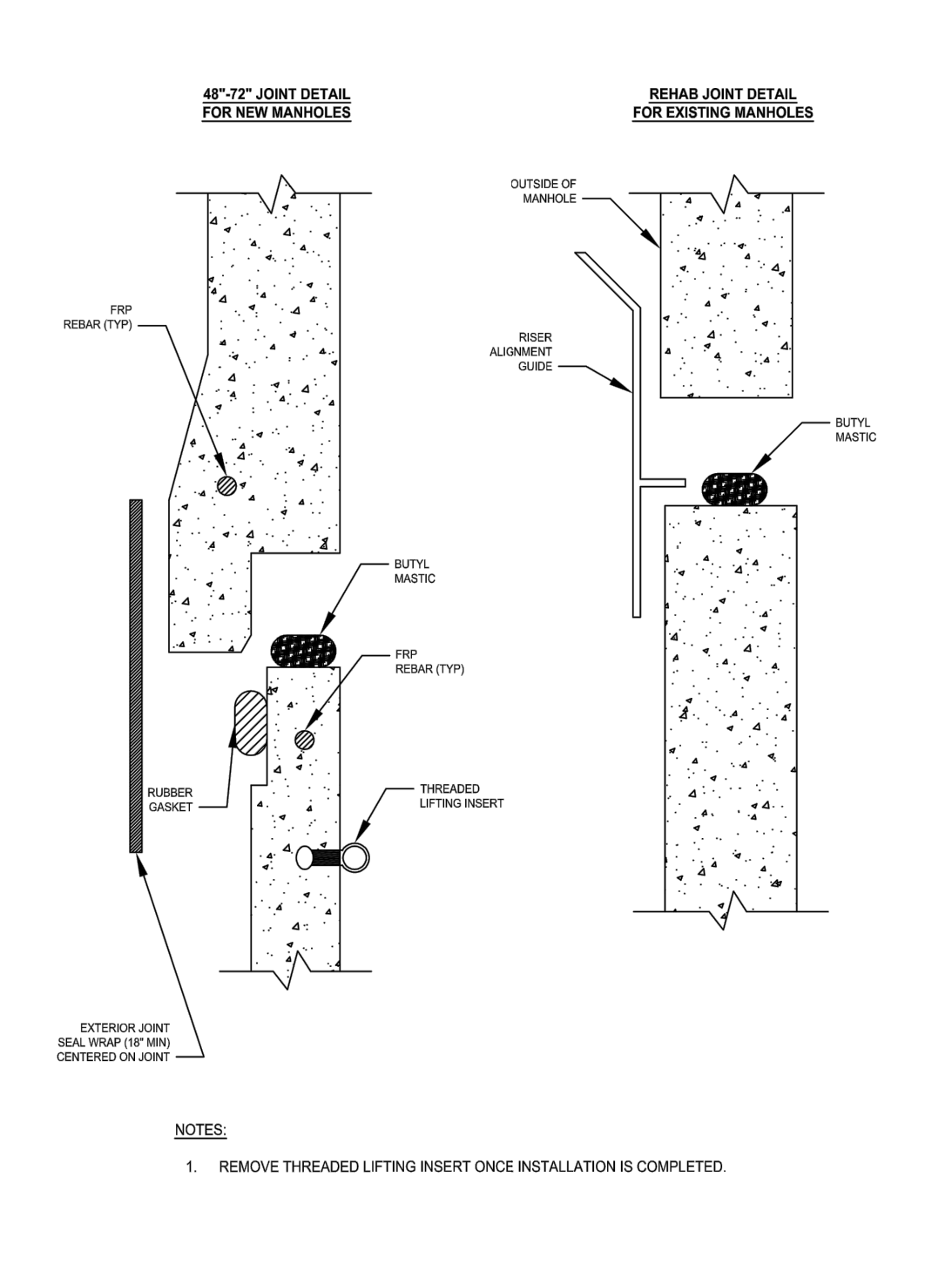
Revision Date: 03/30/2022

GRU More than Energy

TYPICAL PRECAST MANHOLE JOINT ARRANGEMENT AND SEALANT

Wastewater Construction Details

WW-6.0



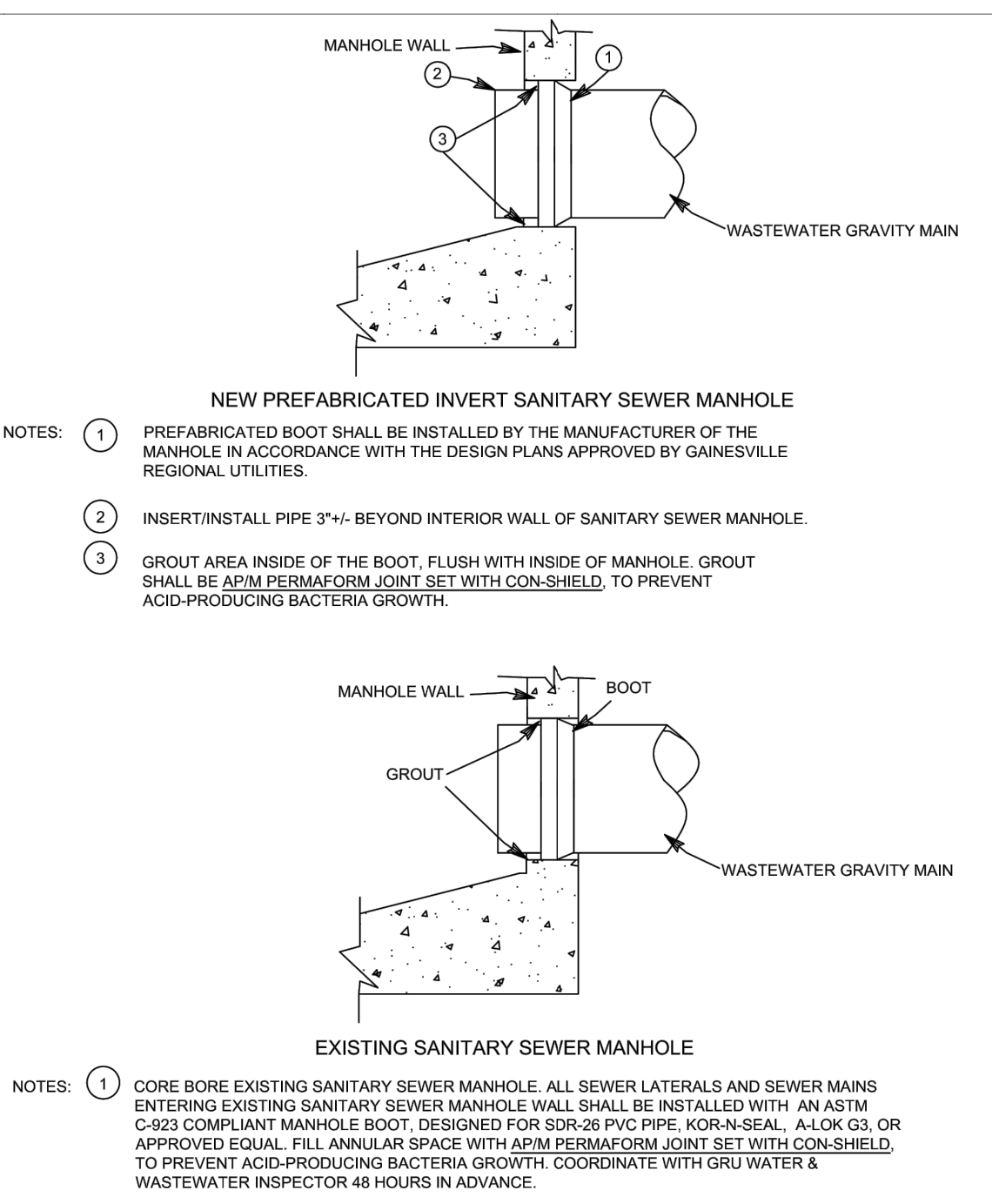
Revision Date: 03/22/2023

GRU More than Energy

PRECAST POLYMER SEWER MANHOLE

Wastewater Construction Details

WW-6.0.1



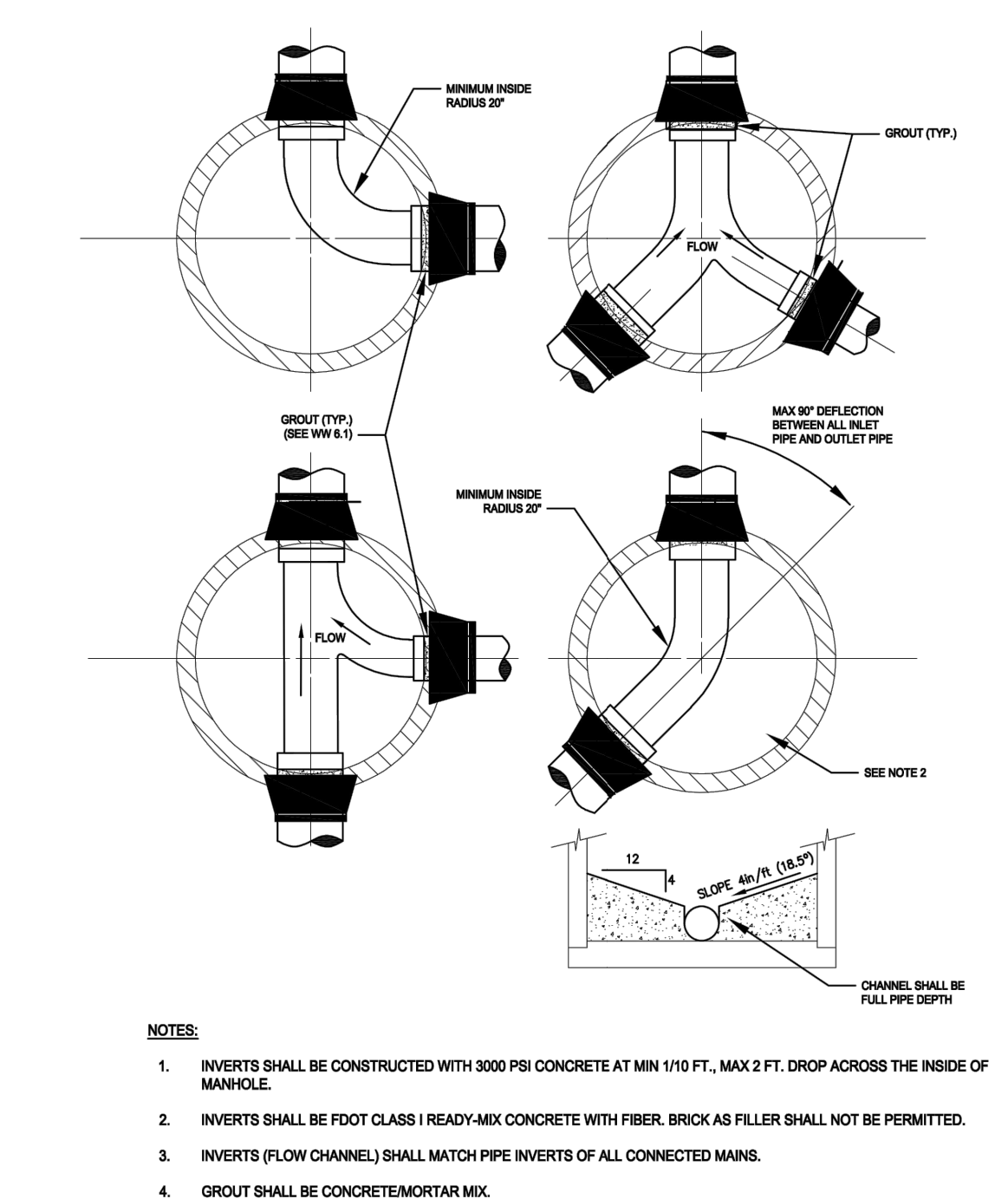
Revision Date: 01/07/19

GRU More than Energy

Gainesville Regional Utilities
Wastewater Construction Details

MANHOLE PIPE CONNECTION CONSTRUCTION

WW-6.1



Revision Date: 02/24/2023

GRU More than Energy

MANHOLE INVERT CONSTRUCTION

Wastewater Construction Details

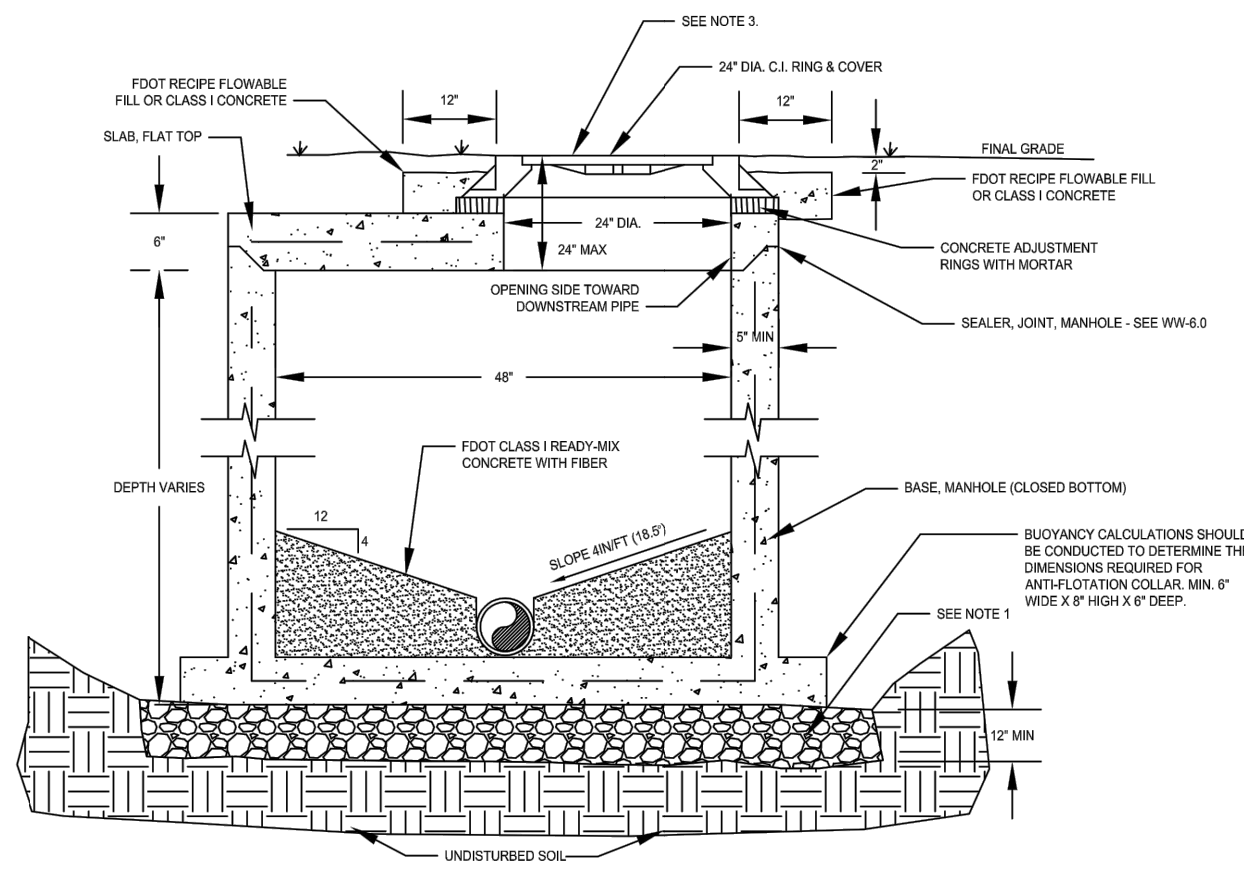
WW-7.0

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KHA PROJECT 142425000		LICENSED PROFESSIONAL	
DATE DECEMBER 2023		DAVID C. SOWELL	
SCALE AS SHOWN		FLORIDA LICENSE NUMBER 66551	
DESIGNED BY KHA		DRAWN BY KHA	
CHECKED BY KHA		DATE	
UTILITY DETAILS			
GAINESVILLE COTTAGES TND		FLORIDA	
PREPARED FOR SANDS COMPANIES, INC.		ALACHUA COUNTY	
SHEET NUMBER C7.14		REVISONS	
		No.	DATE
		1	NOT FOR CONSTRUCTION
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		3	
		4	
		5	
		6	
		7	
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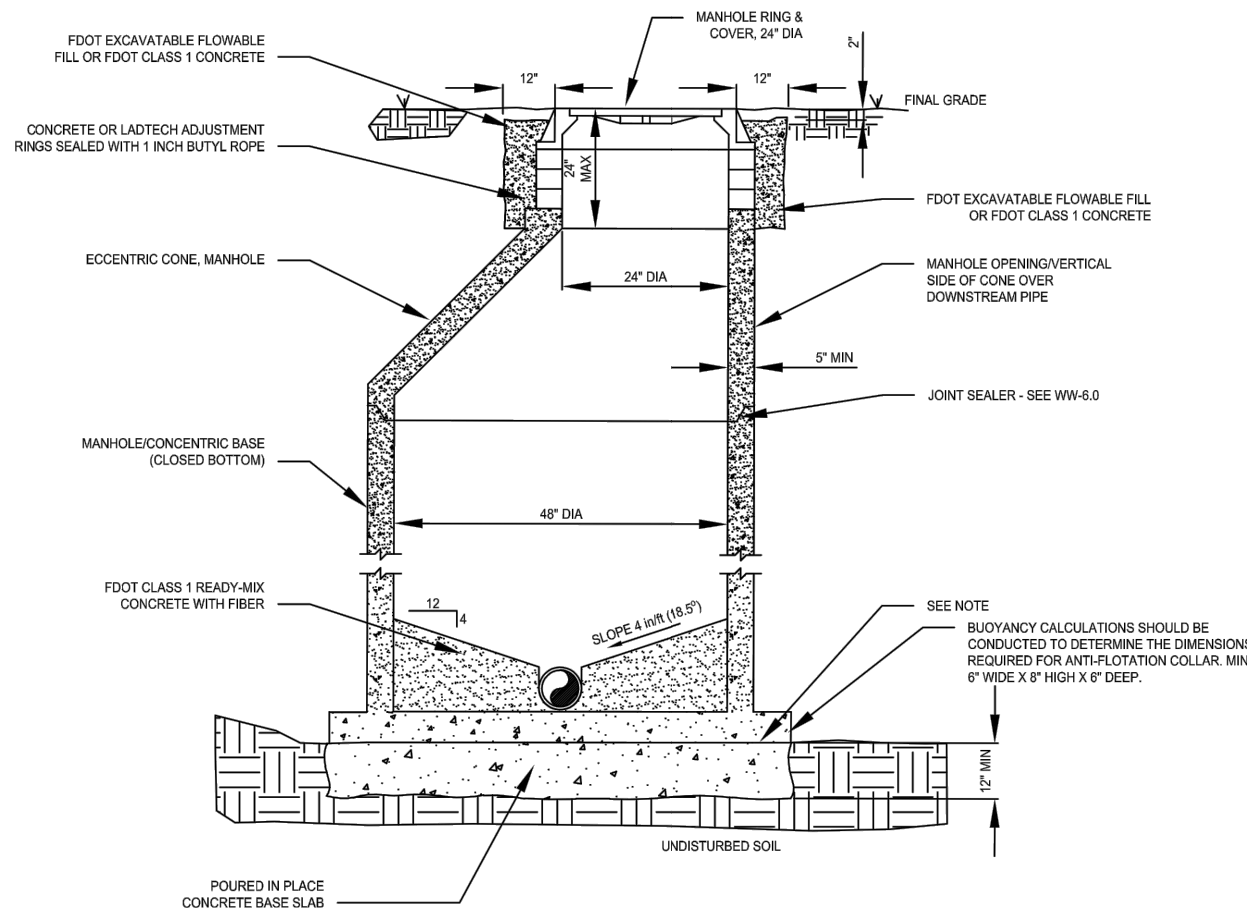
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800 SW 2ND AVENUE, SUITE 100, GAINESVILLE, FL 32601
PHONE: 352-374-3274
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106



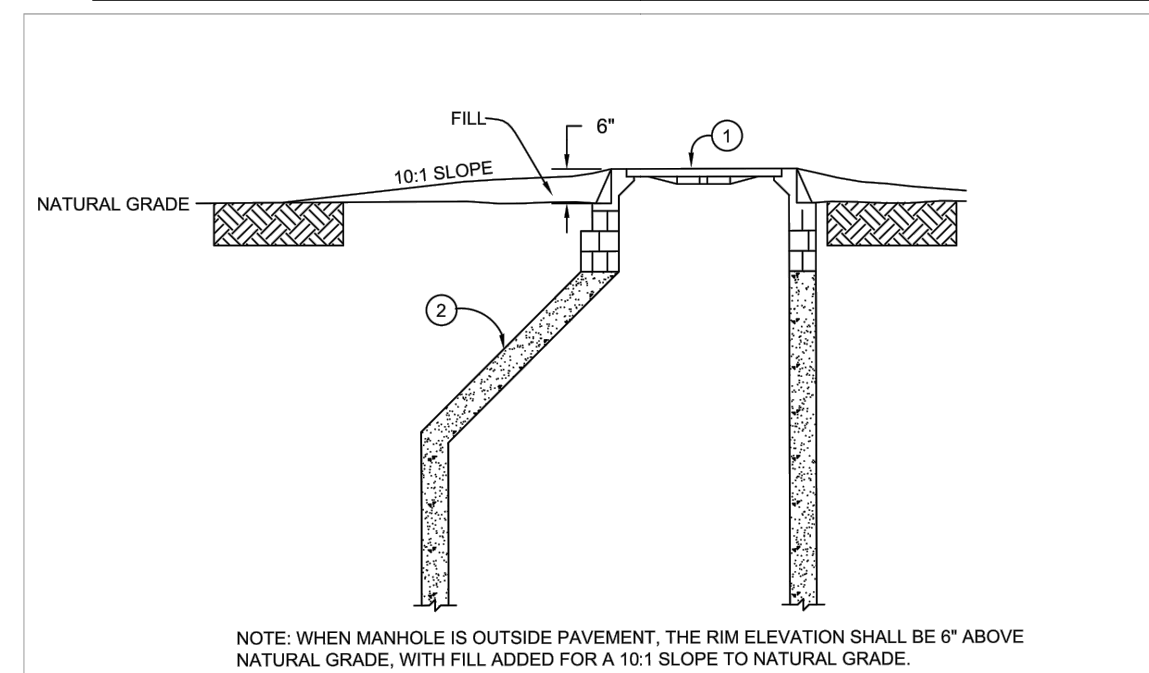
- NOTES:**
1. TO ESTABLISH A SUB-BASE, A 12" THICK BEDDING OF CLASS 1 MATERIAL WRAPPED IN GEO-TEXTILE FILTER FABRIC WILL BE REQUIRED.
 2. THIS TYPE OF CONSTRUCTION SHALL BE LIMITED TO DEPTHS OF (3-6) FEET.
 3. ECCENTRIC CONE IS PREFERABLE TO FLAT TOP IN ALL SITUATIONS WHERE APPLICABLE.

Revision Date: 03/22/2023
GRU More than Energy
4' MANHOLE SHALLOW CONSTRUCTION (CLOSED BOTTOM)
 Wastewater Construction Details
 WW-7.2



- NOTES:**
1. A 12" THICK BEDDING OF CLASS 1, ROCK MATERIAL WRAPPED IN GEO-TEXTILE FILTER FABRIC SHALL BE REQUIRED.
 2. FOR EXISTING GRAVITY MAINS, CONNECT NEW MAINS USING THIS TYPE MANHOLE DOUGHWO (OPEN BOTTOM) MANHOLES SHALL NOT BE INSTALLED.

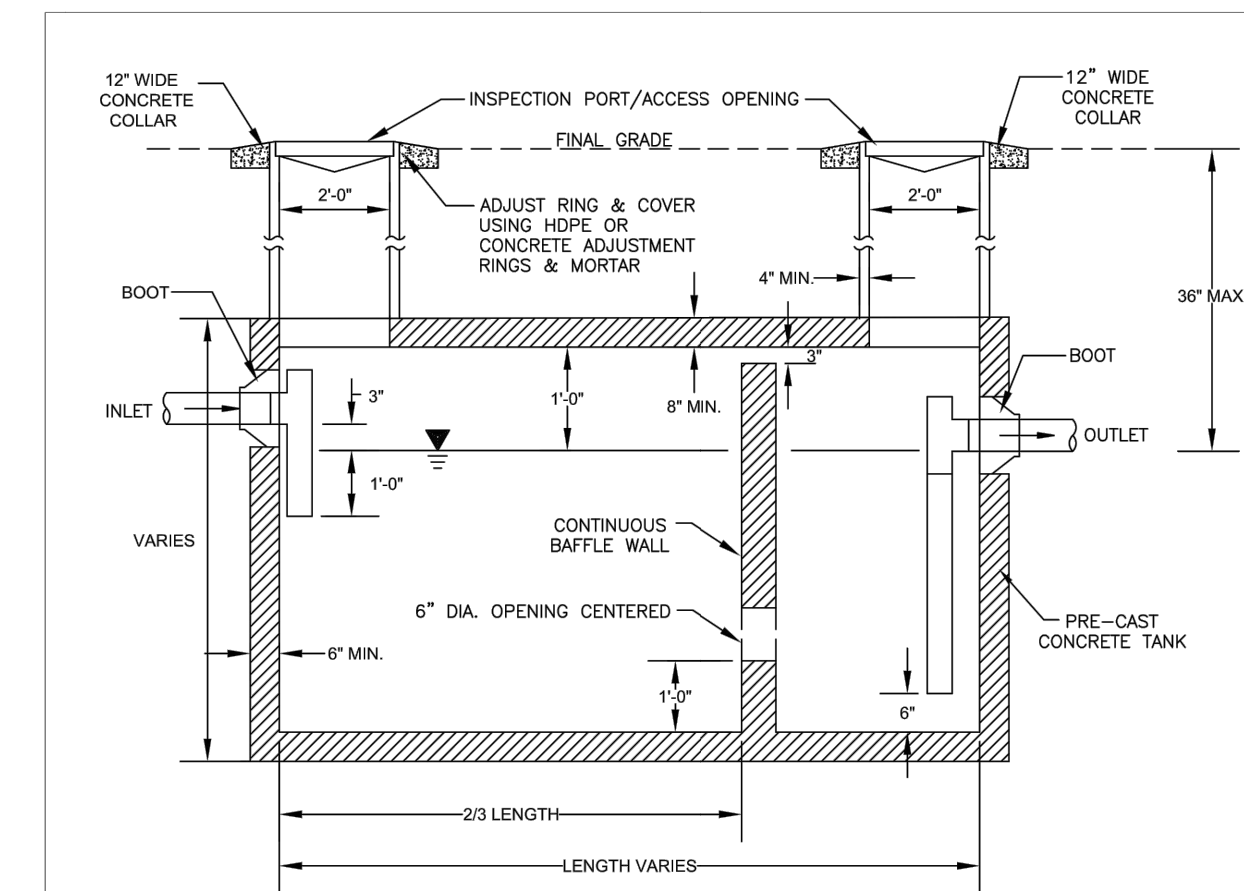
Revision Date: 03/22/2023
GRU More than Energy
4' MANHOLE CONSTRUCTION (CLOSED BOTTOM)
 Wastewater Construction Details
 WW-7.4



MATERIALS	
ITEM	DESCRIPTION
1	MANHOLE RING & COVER
2	ECCENTRIC CONE

NOTE: IN LOCATIONS WHERE STORMWATER INFILTRATION MAY BE POSSIBLE, A MANHOLE PAN WILL BE REQUIRED, AT GRU'S DISCRETION.

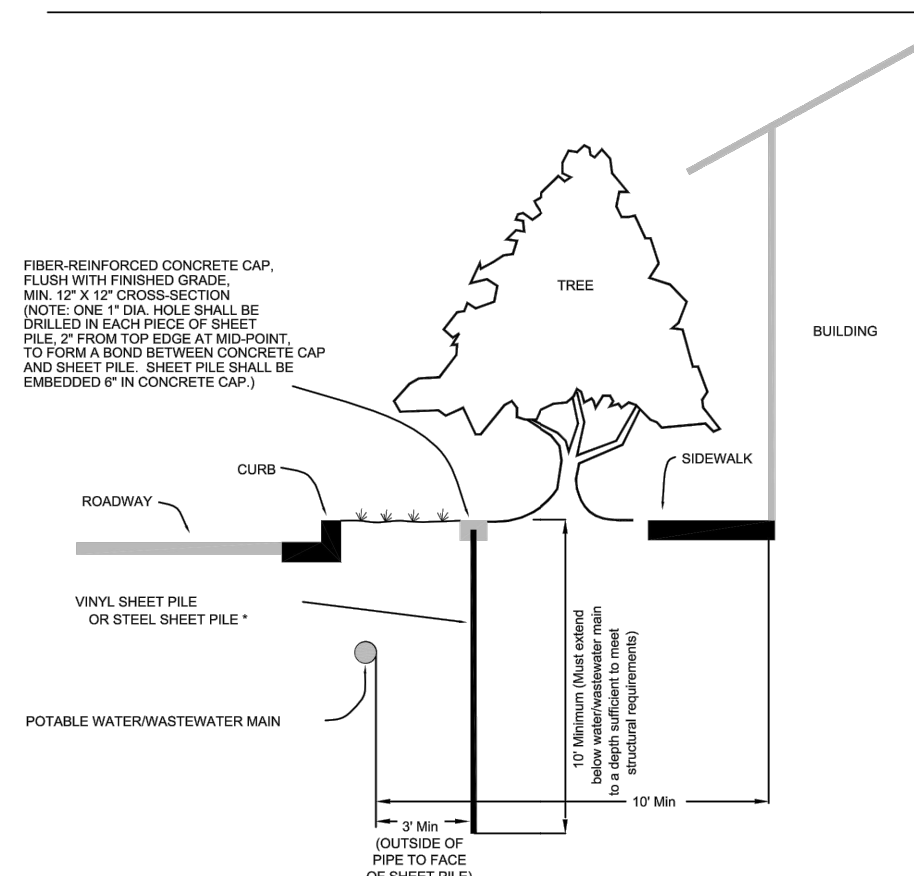
Revision Date: 2/20/08
GRU More than Energy
Gainesville Regional Utilities
 Wastewater Construction Details
 MANHOLE OUTSIDE OF PAVEMENT
 WW-7.8



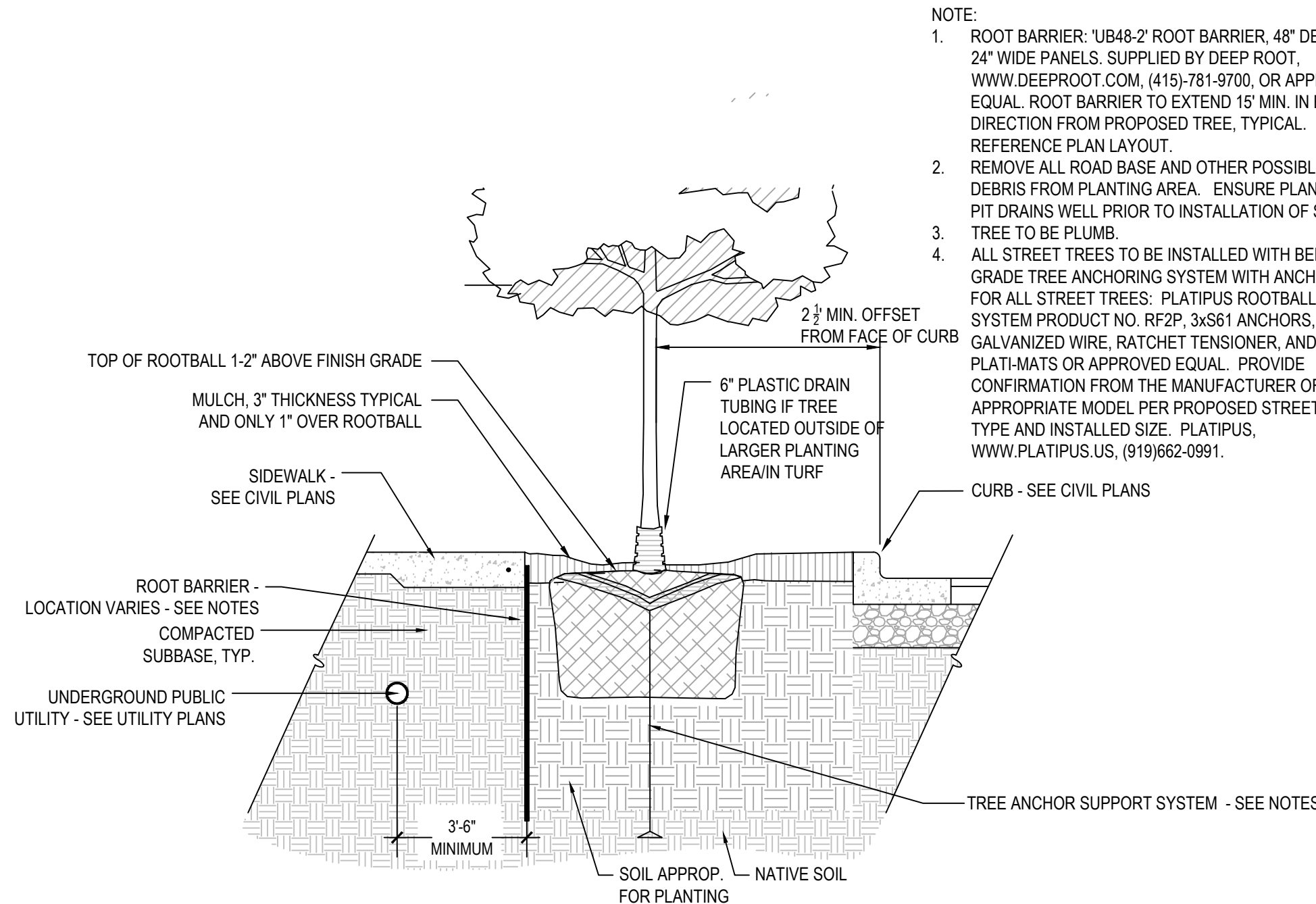
- NOTES:**
1. TANK VOLUME TO BE DETERMINED BY GRU UPON APPLICATION BY OWNER. STRUCTURAL DESIGN SHALL BE THE RESPONSIBILITY OF THE TANK MANUFACTURER.
 2. ONLY KITCHEN WASTE SHALL BE DISCHARGED INTO THE GREASE TRAP. ALL DOMESTIC WASTE (i.e. RESTROOM) SHALL BE CONNECTED DOWNSTREAM OF THE GREASE TRAP.
 3. MANHOLES WHICH ARE NOT INSTALLED UNDER PAVEMENT SHALL HAVE A RIM ELEVATION AT LEAST 6" ABOVE FINISHED GRADE, AND A 10:1 SLOPE TO FINISHED GRADE.
 4. GREASE TRAP ASSEMBLY TO BE 120 TRAFFIC LOAD RATED, INCLUDING TANK, TANK LID, CHIMNEYS AND MANHOLE RING & COVER.
 5. NO CAPPED TEES.

Revision Date: 01/09/19
GRU More than Energy
Gainesville Regional Utilities
 Wastewater Construction Details
 GREASE TRAP
 WW-9.0

TREE - WATER/WASTEWATER MAIN SEPARATION



Revision Date: 9/30/08
GRU More than Energy
Gainesville Regional Utilities
 Wastewater Construction Details
 SHEETPILE DETAIL
 WW-9.8



- NOTES:**
1. THE STREET TREE PLANTING AND ROOT BARRIER DETAIL AND ASSOCIATED NOTES SHOWN ON THE LANDSCAPE PLAN SHEET L-101 SHALL SUPERCEDE THIS DETAIL.

STREET TREE PLANTING AND ROOT BARRIER DETAIL

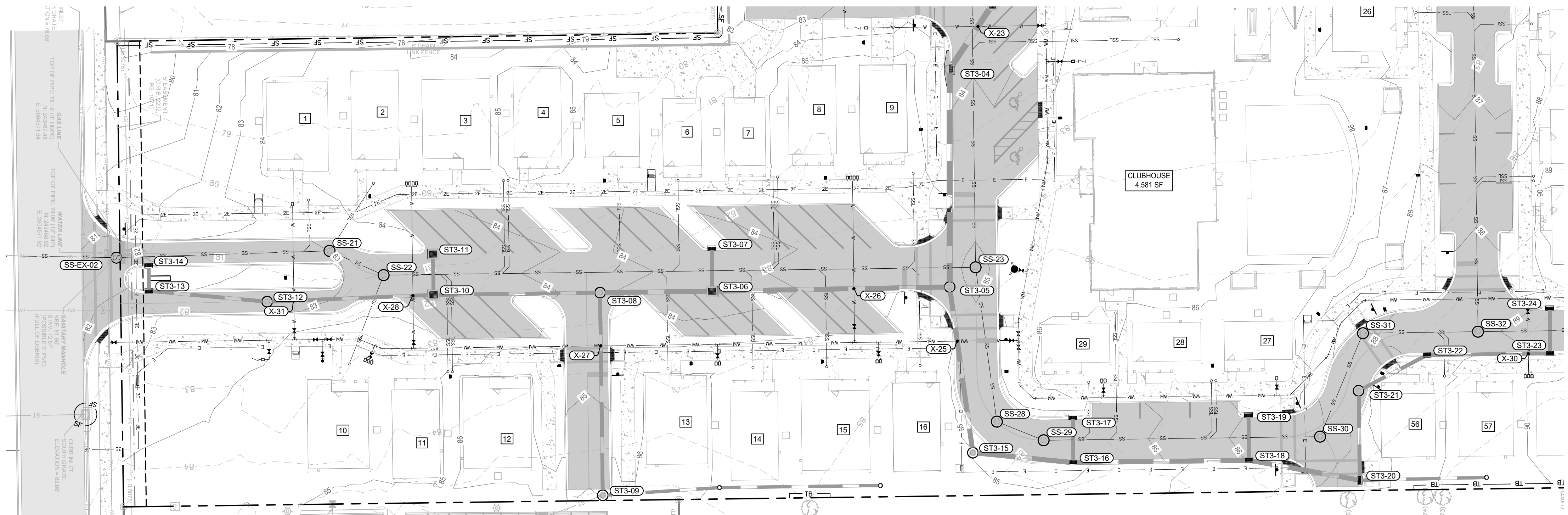
N.T.S.

- NOTE:**
1. ROOT BARRIER: 1/8" X 2" ROOT BARRIER, 48" DEPTH X 24" WIDE PANELS, SUPPLIED BY DEEP ROOT. WWW.DEEPROOT.COM, (415)-781-9700, OR APPROVED EQUAL. ROOT BARRIER TO EXTEND 15' MIN. IN EITHER DIRECTION FROM PROPOSED TREE, TYPICAL. REFERENCE PLAN LAYOUT.
 2. REMOVE ALL ROAD BASE AND OTHER POSSIBLE DEBRIS FROM PLANTING AREA. ENSURE PLANTING PIT DRAINS WELL PRIOR TO INSTALLATION OF SOILS. TREE TO BE PLUMB.
 3. ALL STREET TREES TO BE INSTALLED WITH BELOW GRADE TREE ANCHORING SYSTEM WITH ANCHORS FOR ALL STREET TREES: PLATIPUS ROOTBALL FIXING SYSTEM PRODUCT NO. RF2P, 3x561 ANCHORS, GALVANIZED WIRE, RATCHET TENSIONER, AND PLATI-MATS OR APPROVED EQUAL. PROVIDE CONFIRMATION FROM THE MANUFACTURER OF APPROPRIATE MODEL PER PROPOSED STREET TREE TYPE AND INSTALLED SIZE. PLATIPUS, WWW.PLATIPUS.US, (919)662-0991.
 4. CURB - SEE CIVIL PLANS

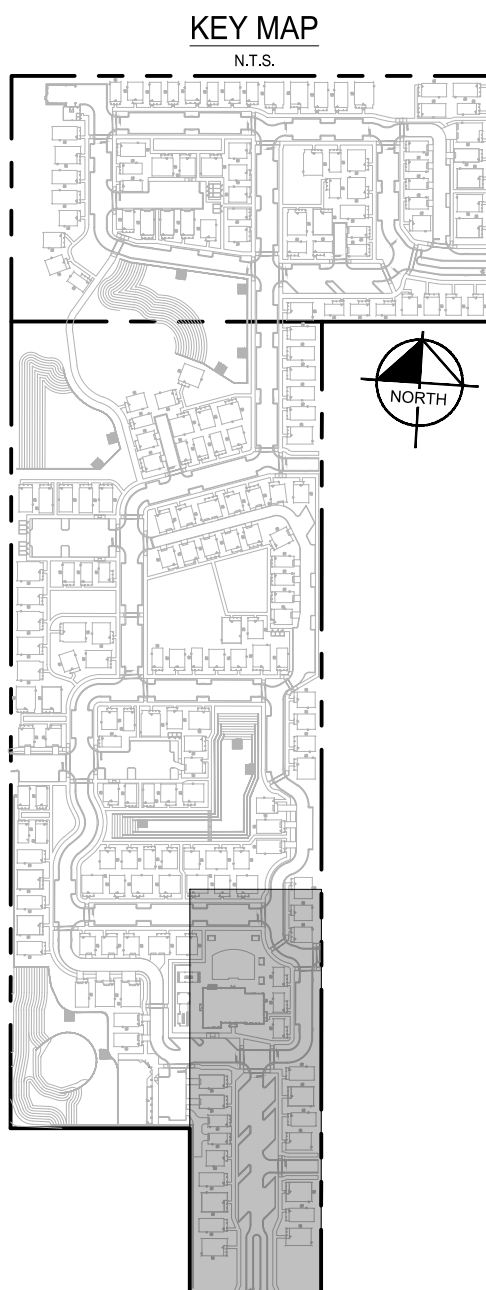
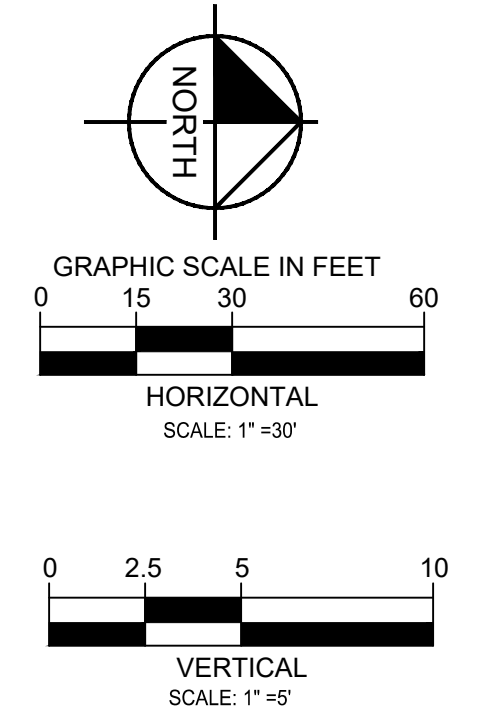
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DATE DECEMBER 2023	SCALE AS SHOWN	DAVID C. SOWELL	FLORIDA LICENSE NUMBER 66551
DRAWN BY KHA	CHECKED BY KHA	UTILITY DETAILS	
GAINESVILLE COTTAGES TND		PREPARED FOR SANDS COMPANIES, INC.	
SHEET NUMBER C7.15		ALACHUA COUNTY FLORIDA	
NOT FOR CONSTRUCTION		REVISIONS	DATE BY

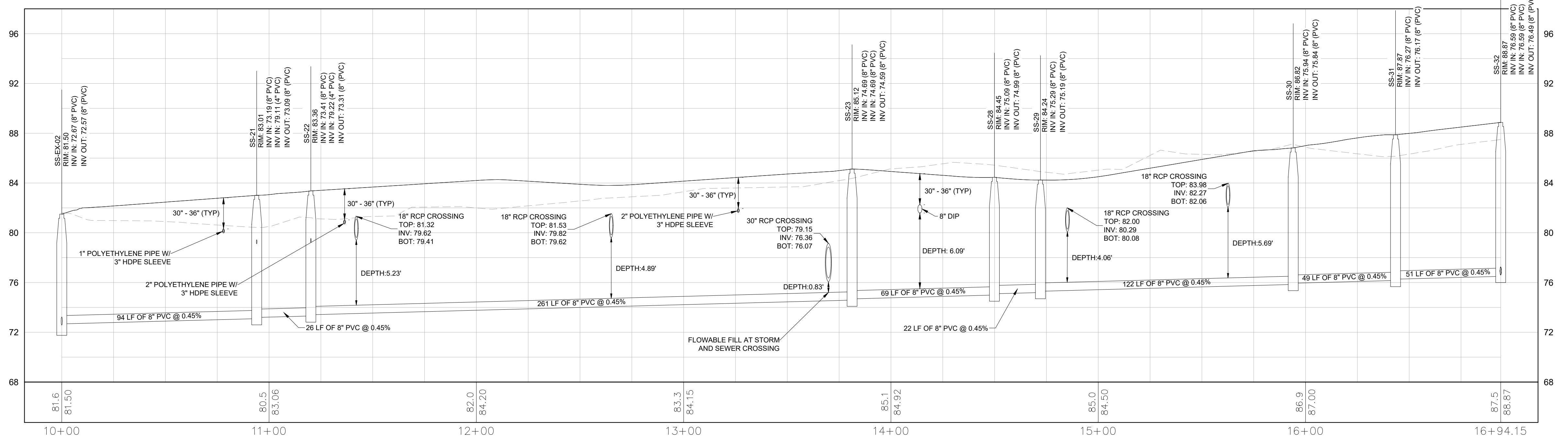
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CROSSING #	DETAILS:
X-23	BOT OF PIPE (WATER): 80.17 TOP OF PIPE (STORM): 73.48 VERTICAL CLEARANCE: 6.35
X-25	BOT OF PIPE (WATER): 81.32 TOP OF PIPE (STORM): 79.51 VERTICAL CLEARANCE: 1.47
X-26	BOT OF PIPE (WATER): 81.35 TOP OF PIPE (STORM): 78.61 VERTICAL CLEARANCE: 2.50
X-27	BOT OF PIPE (WATER): 81.05 TOP OF PIPE (STORM): 78.78 VERTICAL CLEARANCE: 2.06
X-28	BOT OF PIPE (WATER): 80.41 TOP OF PIPE (STORM): 79.05 VERTICAL CLEARANCE: 1.16
X-30	BOT OF PIPE (WATER): 86.44 TOP OF PIPE (STORM): 81.08 VERTICAL CLEARANCE: 5.15
X-31	BOT OF PIPE (WATER): 79.80 TOP OF PIPE (STORM): 76.45 VERTICAL CLEARANCE: 3.14



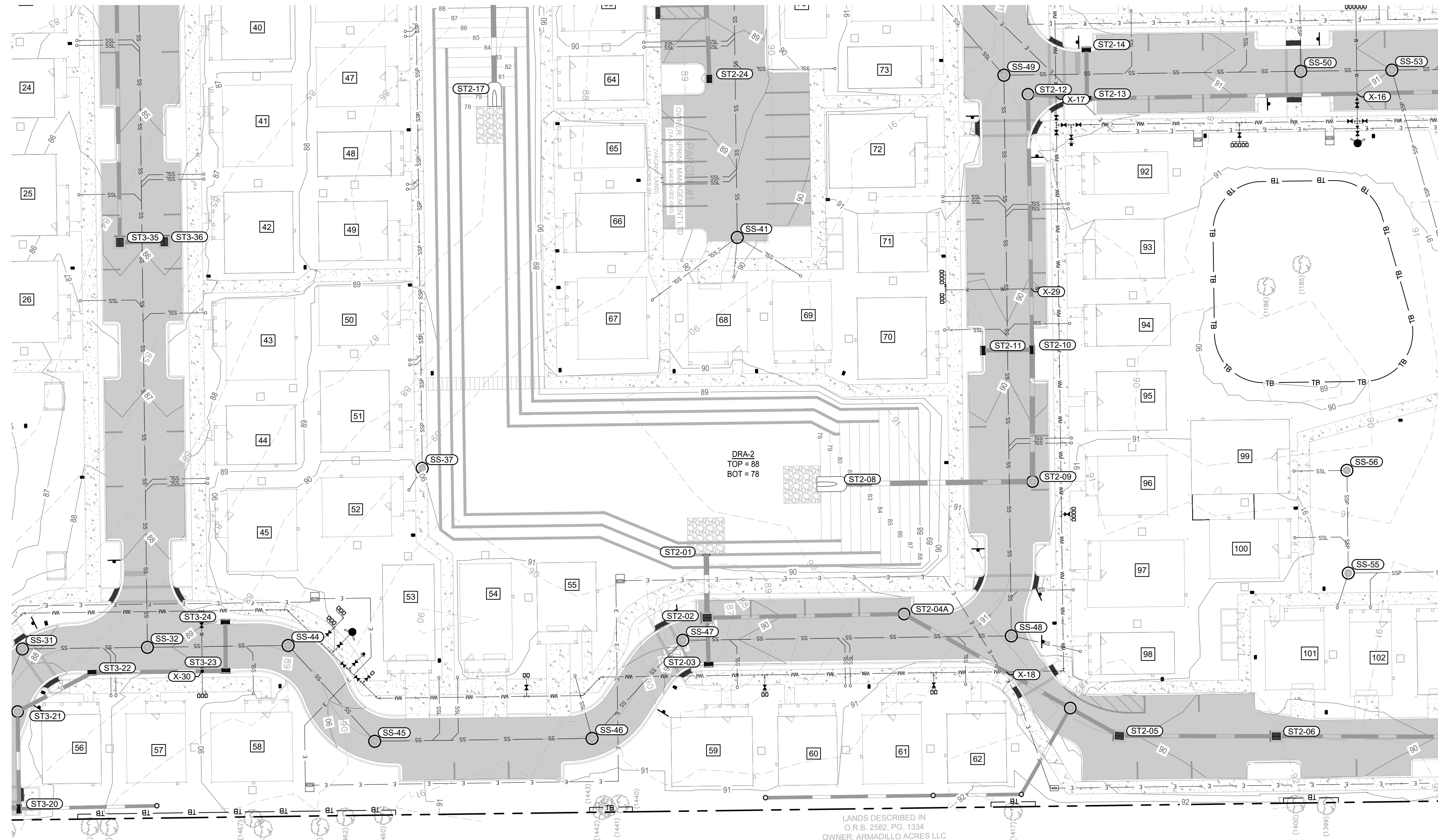
EX-SS-02 TO SS-32



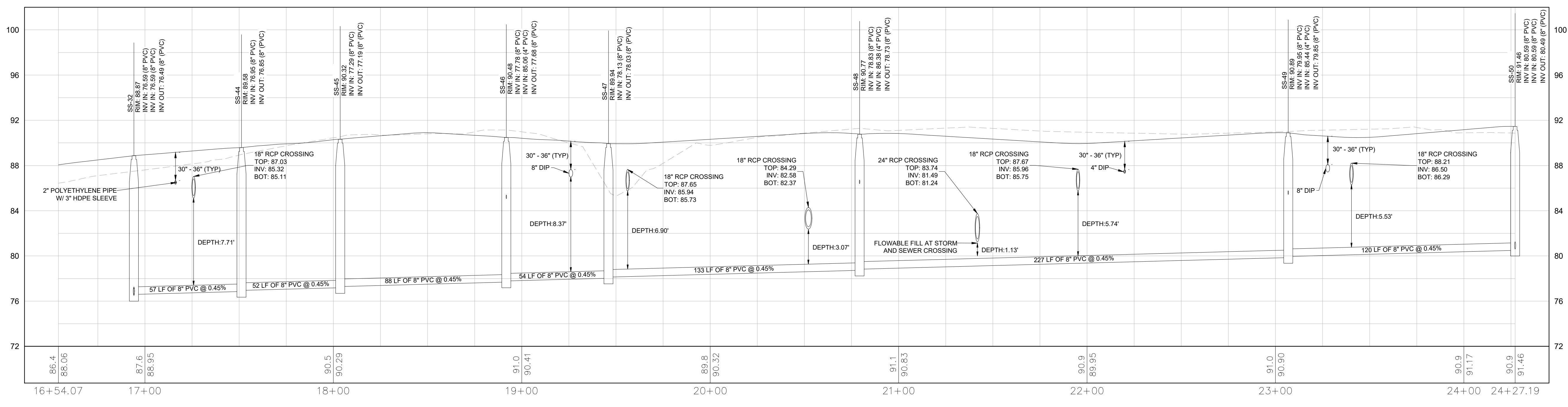
GAINESVILLE COTTAGES TND PREPARED FOR SANDS COMPANIES, INC. ALACHUA COUNTY FLORIDA	Sanitary Sewer Plan and Profile	Kimley»Horn © 2023 KIMLEY-HORN AND ASSOCIATES, INC. 800 SW 2ND AVENUE, SUITE 100, GAINESVILLE, FL 32601 PHONE: 352-374-3274 WWW.KIMLEY-HORN.COM REGISTRY NO. 35106
KHA PROJECT: 142425000 DATE: DECEMBER 2023 SCALE: AS SHOWN DESIGNED BY: KHA DRAWN BY: KHA CHECKED BY: KHA	LICENSED PROFESSIONAL DAVID C. SOWELL FLORIDA LICENSE NUMBER 665531	REVISIONS No. DATE BY

SHEET NUMBER
C8.00

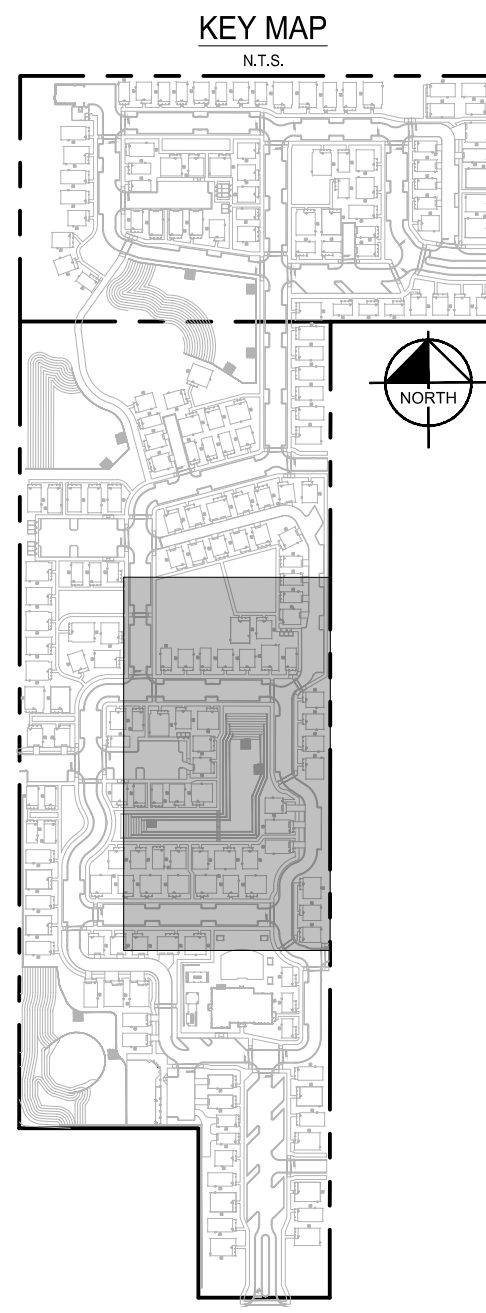
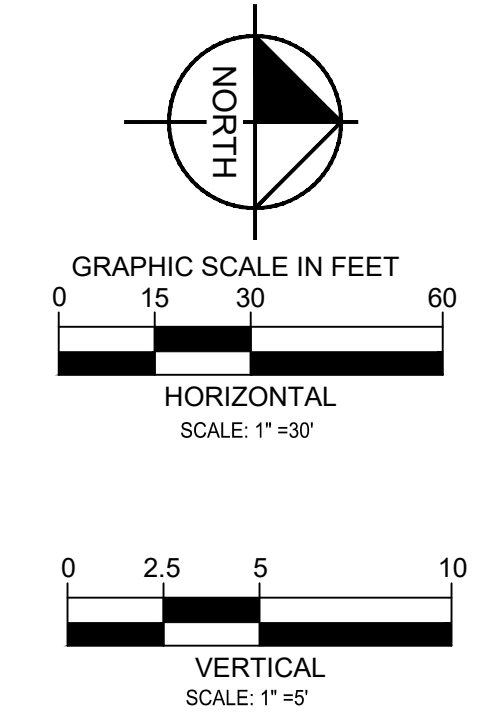
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SS-32 TO SS-50

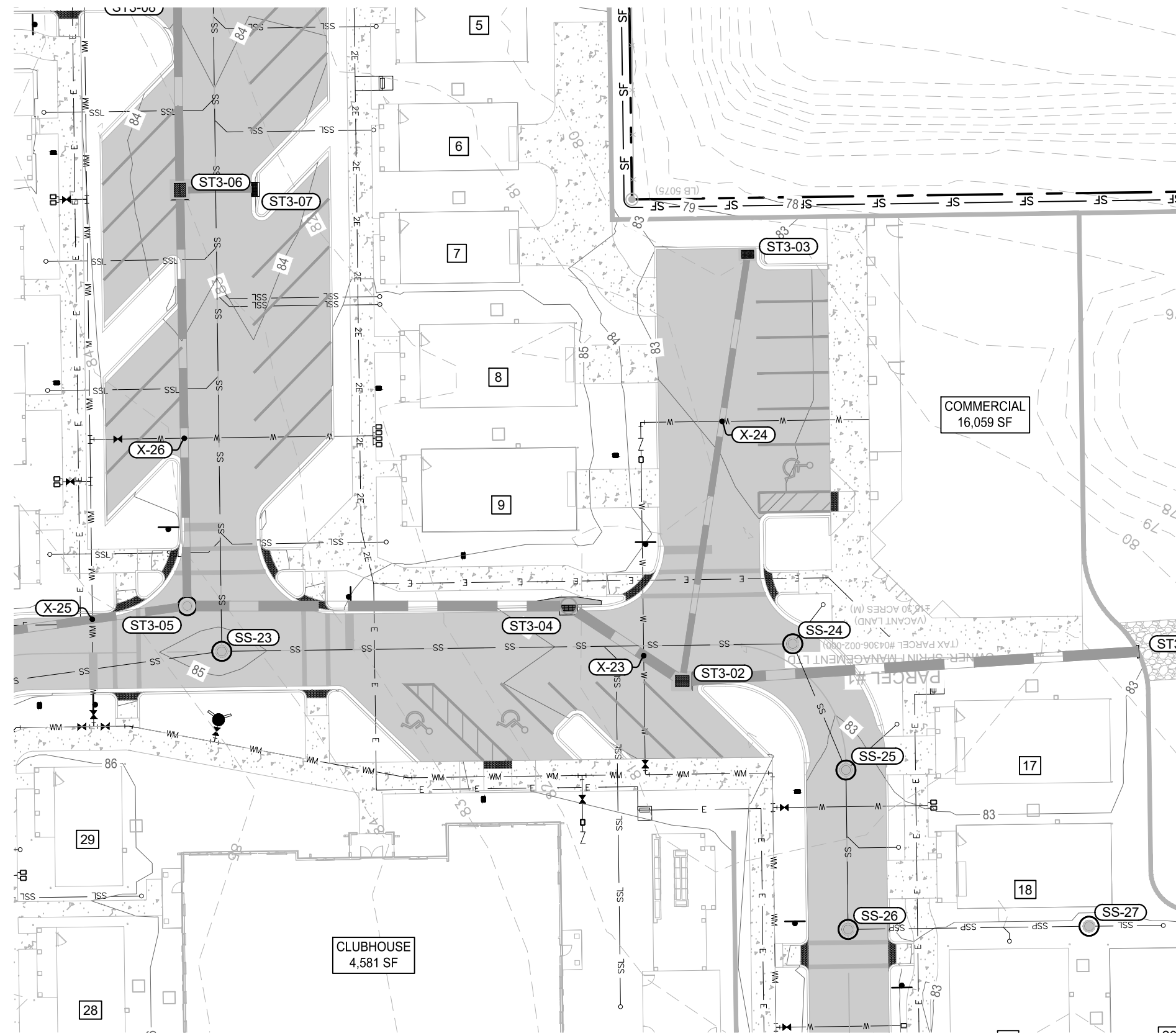


CROSSING #	DETAILS:
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X-17	BOT OF PIPE (WATER): 87.08 TOP OF PIPE (STORM): 84.80 VERTICAL CLEARANCE: 2.03
X-18	BOT OF PIPE (WATER): 87.34 TOP OF PIPE (STORM): 84.71 VERTICAL CLEARANCE: 2.37
X-29	BOT OF PIPE (WATER): 86.97 TOP OF PIPE (STORM): 84.35 VERTICAL CLEARANCE: 2.37
X-30	BOT OF PIPE (WATER): 86.44 TOP OF PIPE (STORM): 81.08 VERTICAL CLEARANCE: 5.15

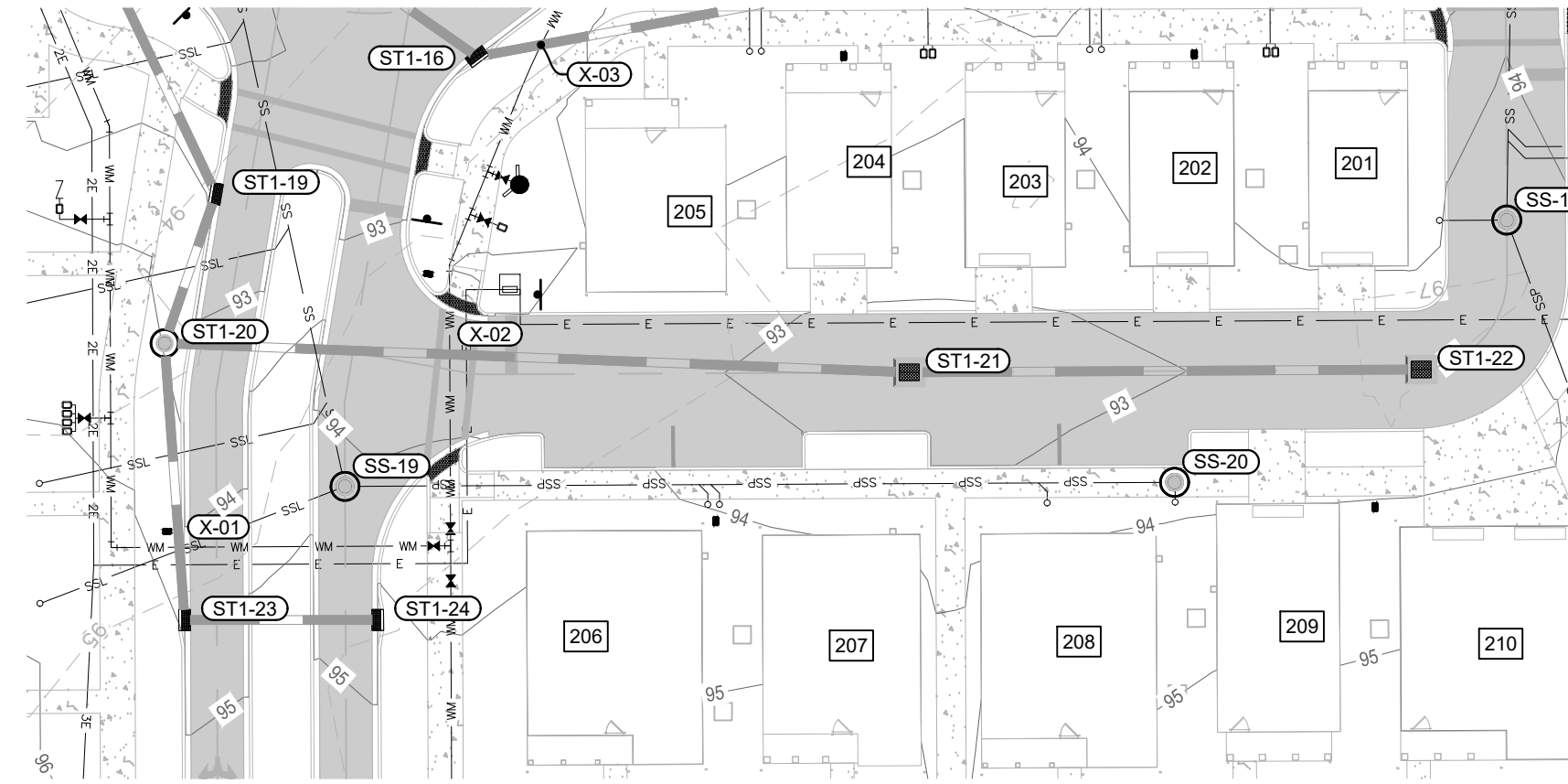
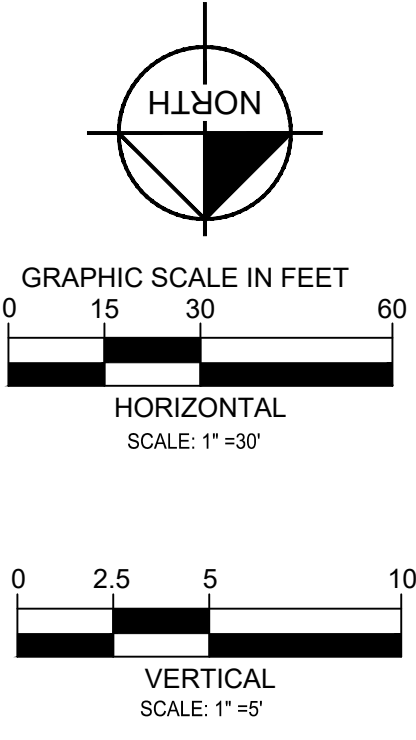


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<small>LICENSED PROFESSIONAL</small> DAVID C. SOWELL <small>FLORIDA LICENSE NUMBER 66531</small>				
<small>KHA PROJECT</small> 142425000	<small>DATE</small> DECEMBER 2023	<small>SCALE</small> AS SHOWN	<small>DESIGNED BY</small> KHA	<small>CHECKED BY</small> KHA
SANITARY SEWER PLAN AND PROFILE		GAINESVILLE COTTAGES TND		
<small>PREPARED FOR</small> SANDS COMPANIES, INC.		<small>ALACHUA COUNTY</small> FLORIDA		
<small>SHEET NUMBER</small> C8.01				
<small>REVISIONS</small> No. DATE BY				

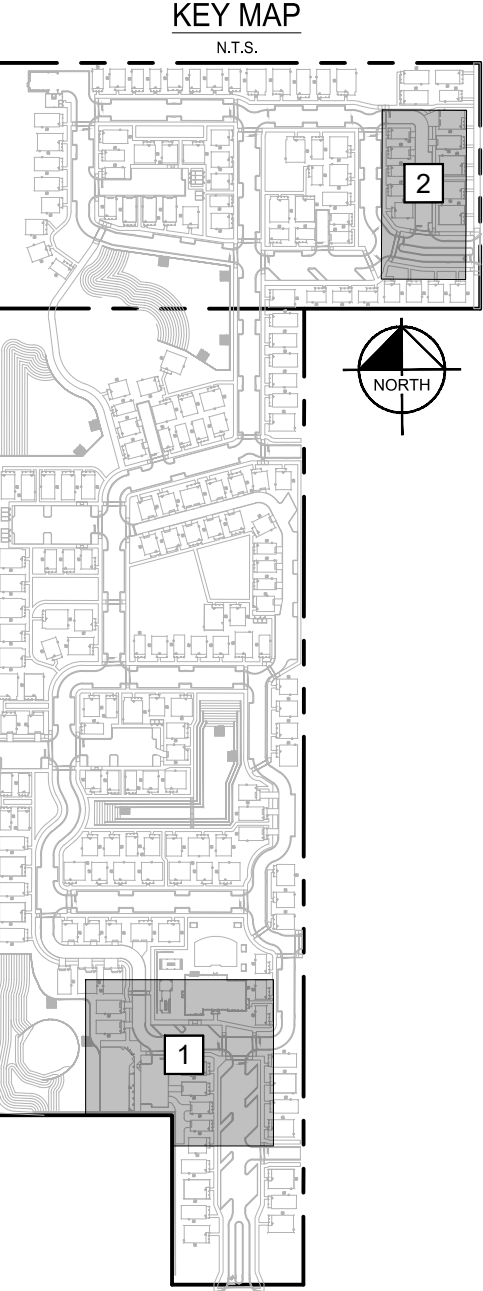
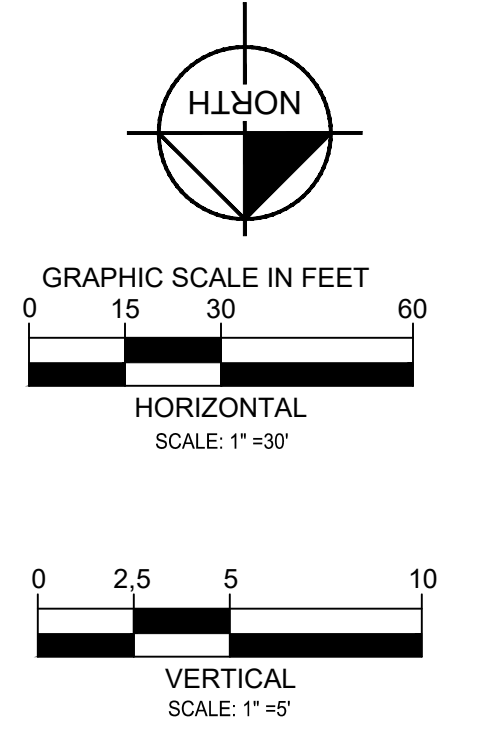
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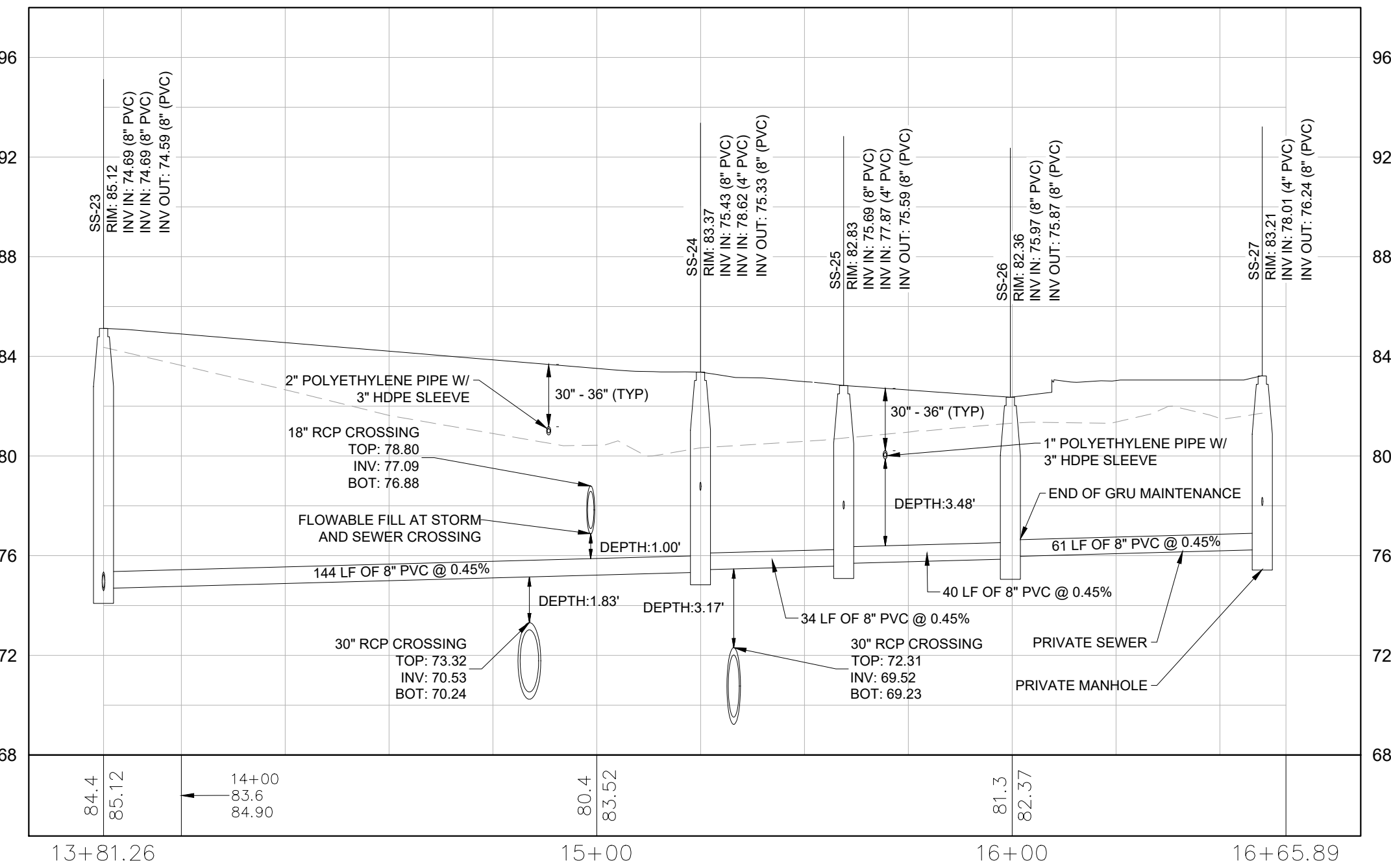
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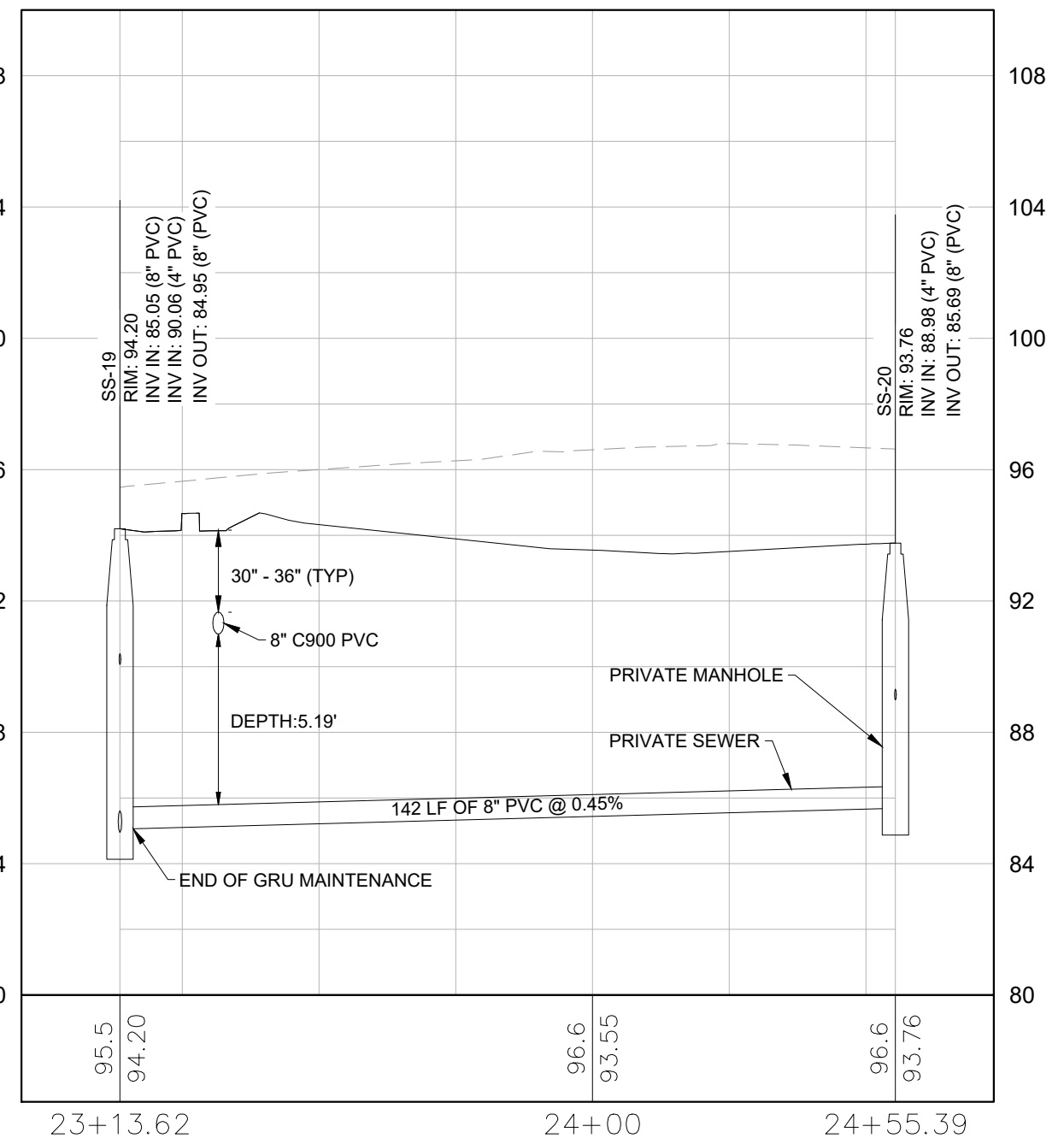
2



SS-23 TO SS-27



SS-19 TO SS-20



WATER/STORM CROSSING TABLE	
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X-01	BOT OF PIPE (WATER): 90.77 TOP OF PIPE (STORM): 88.34 VERTICAL CLEARANCE: 2.21
X-02	BOT OF PIPE (WATER): 90.16 TOP OF PIPE (STORM): 88.39 VERTICAL CLEARANCE: 1.56
X-03	BOT OF PIPE (WATER): 89.99 TOP OF PIPE (STORM): 87.59 VERTICAL CLEARANCE: 2.19
X-23	BOT OF PIPE (WATER): 80.17 TOP OF PIPE (STORM): 73.48 VERTICAL CLEARANCE: 6.35
X-24	BOT OF PIPE (WATER): 80.13 TOP OF PIPE (STORM): 78.884 VERTICAL CLEARANCE: 1.04
X-25	BOT OF PIPE (WATER): 81.32 TOP OF PIPE (STORM): 79.51 VERTICAL CLEARANCE: 1.47
X-26	BOT OF PIPE (WATER): 81.35 TOP OF PIPE (STORM): 78.61 VERTICAL CLEARANCE: 2.50

SANITARY SEWER
PLAN AND PROFILE

GAINESVILLE COTTAGES
TND
PREPARED FOR
SANDS COMPANIES, INC.
ALACHUA COUNTY FLORIDA

SHEET NUMBER
C8.03

KHA PROJECT	142425000
DATE	DECEMBER 2023
SCALE	AS SHOWN
DESIGNED BY	KHA
DRAWN BY	KHA
CHECKED BY	KHA
LICENSED PROFESSIONAL	DAVID C. SOWELL
FLORIDA LICENSE NUMBER	66531
REGISTRY NO.	35106
REVISIONS	
DATE	BY

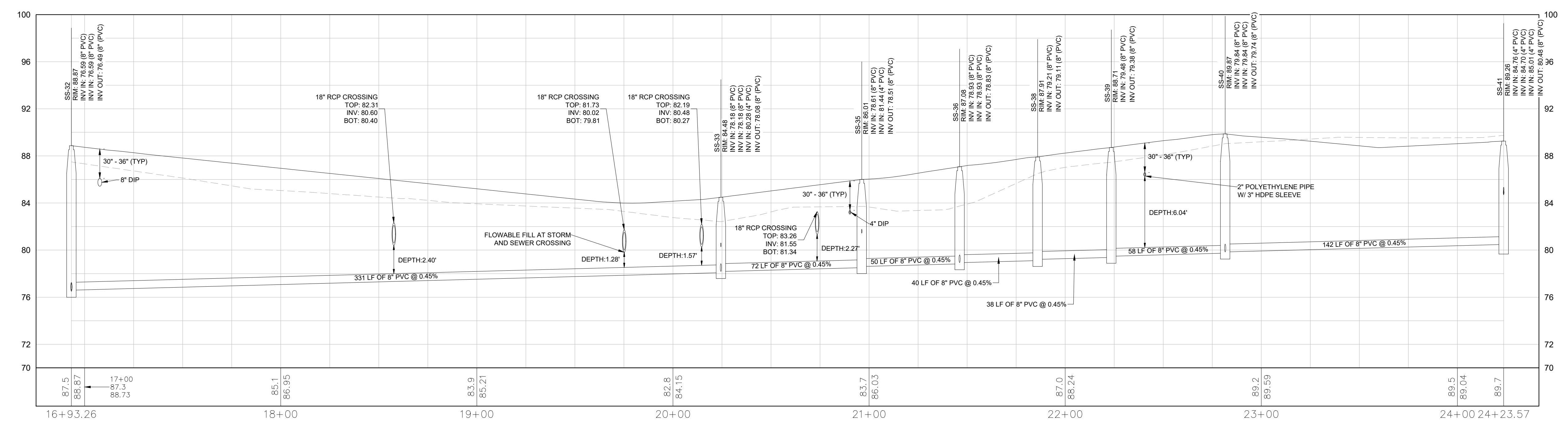
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 800 SW 2ND AVENUE, SUITE 100, GAINESVILLE, FL 32601
 PHONE: 352-374-3274
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WATER/STORM CROSSING TABLE	
CROSSING #	DETAILS
X-19	BOT OF PIPE (WATER): 84.82 TOP OF PIPE (STORM): 83.96 VERTICAL CLEARANCE: 1.01
X-20	BOT OF PIPE (WATER): 86.36 TOP OF PIPE (STORM): 83.91 VERTICAL CLEARANCE: 2.20
X-30	BOT OF PIPE (WATER): 86.44 TOP OF PIPE (STORM): 81.08 VERTICAL CLEARANCE: 5.15

SS-32 TO SS-41



GAINESVILLE COTTAGES
TND
PREPARED FOR
SANDS COMPANIES, INC.
ALACHUA COUNTY FLORIDA

SHEET NUMBER
C8.04

Kimley»Horn
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800 SW 2ND AVENUE, SUITE 100, GAINESVILLE, FL 32601
PHONE: 352-374-3274
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL
DAVID C. SOWELL
FLORIDA LICENSE NUMBER
665531

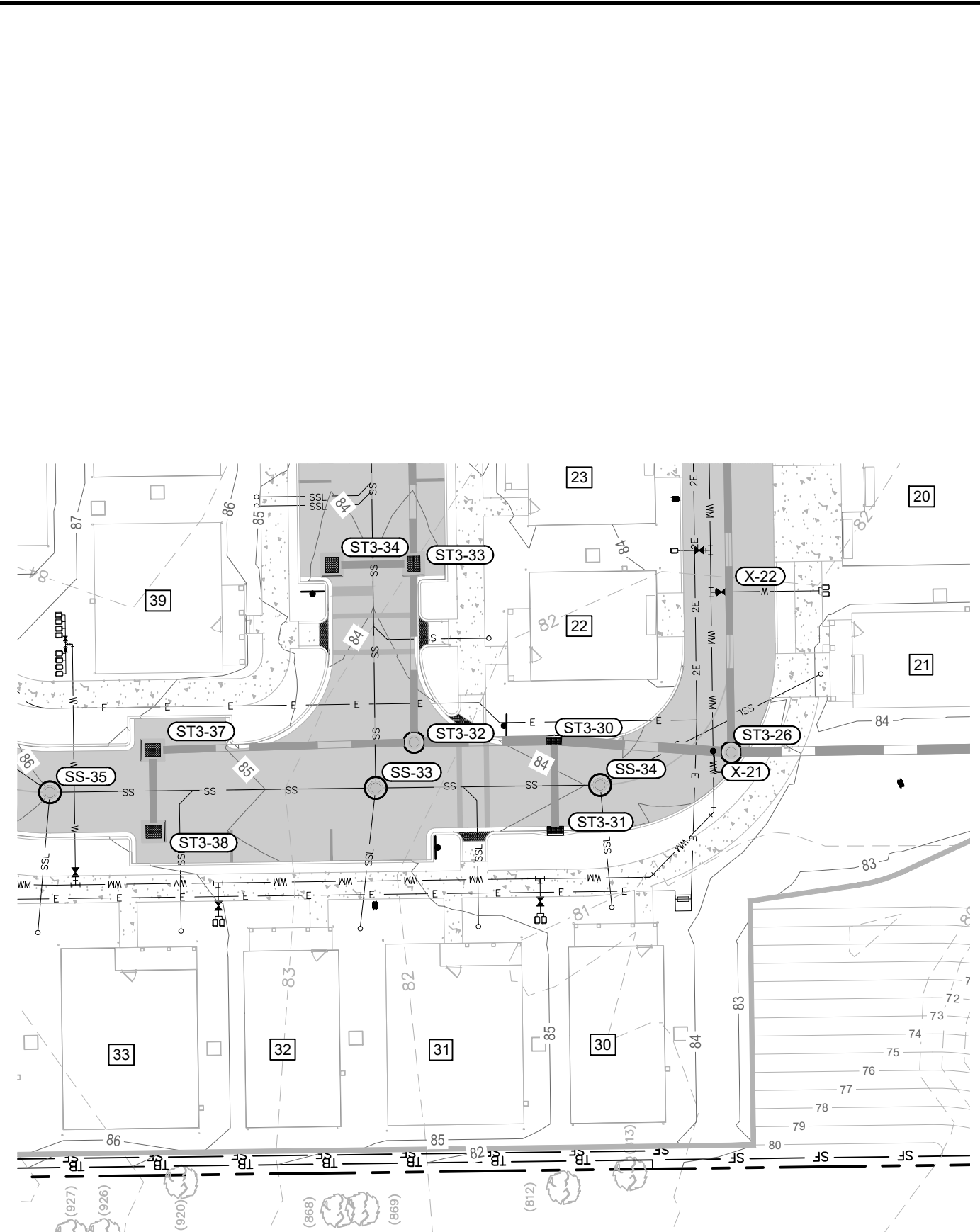
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CHECKED BY: KHA

DATE: _____

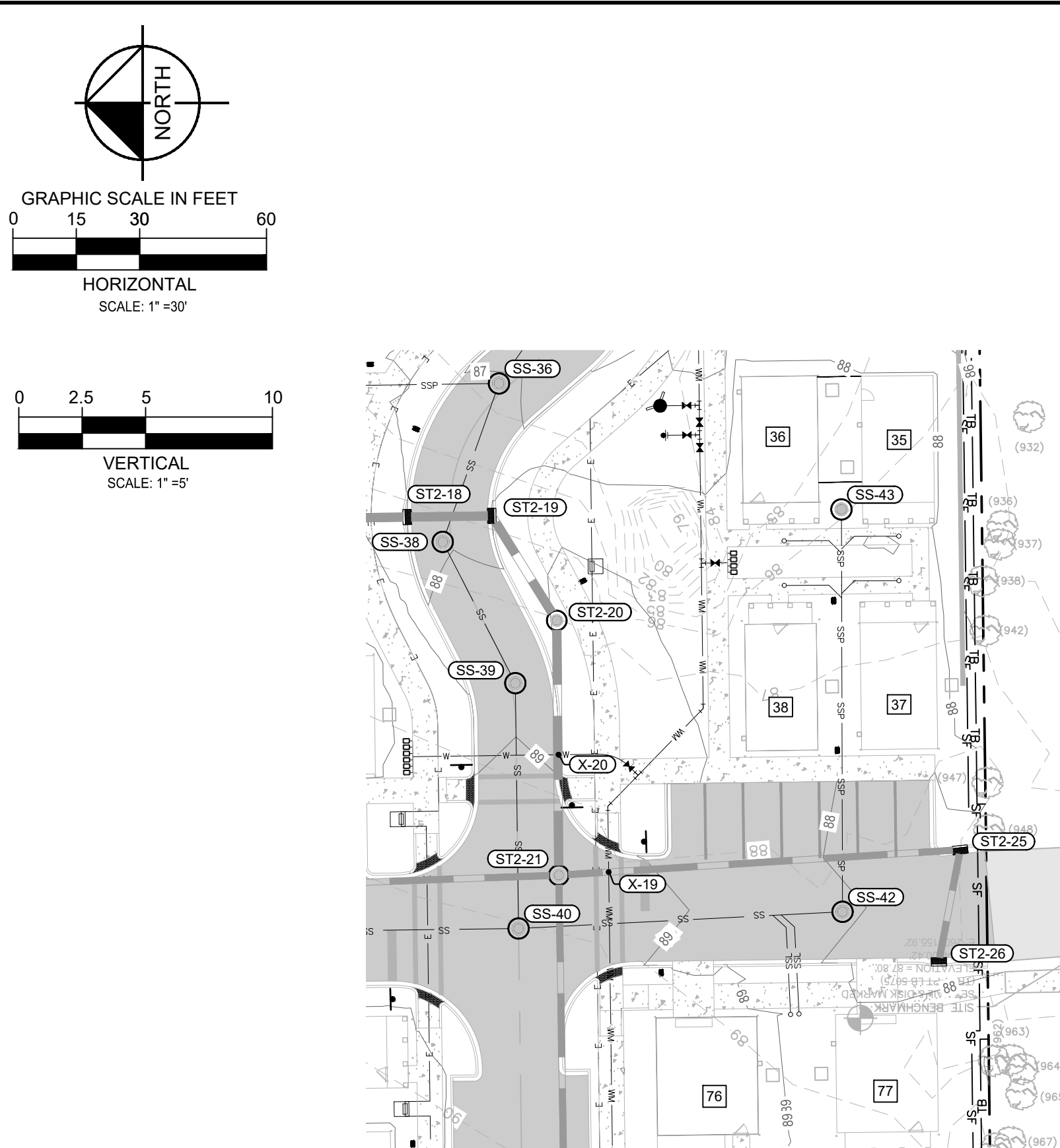
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No.	REVISIONS	DATE	BY

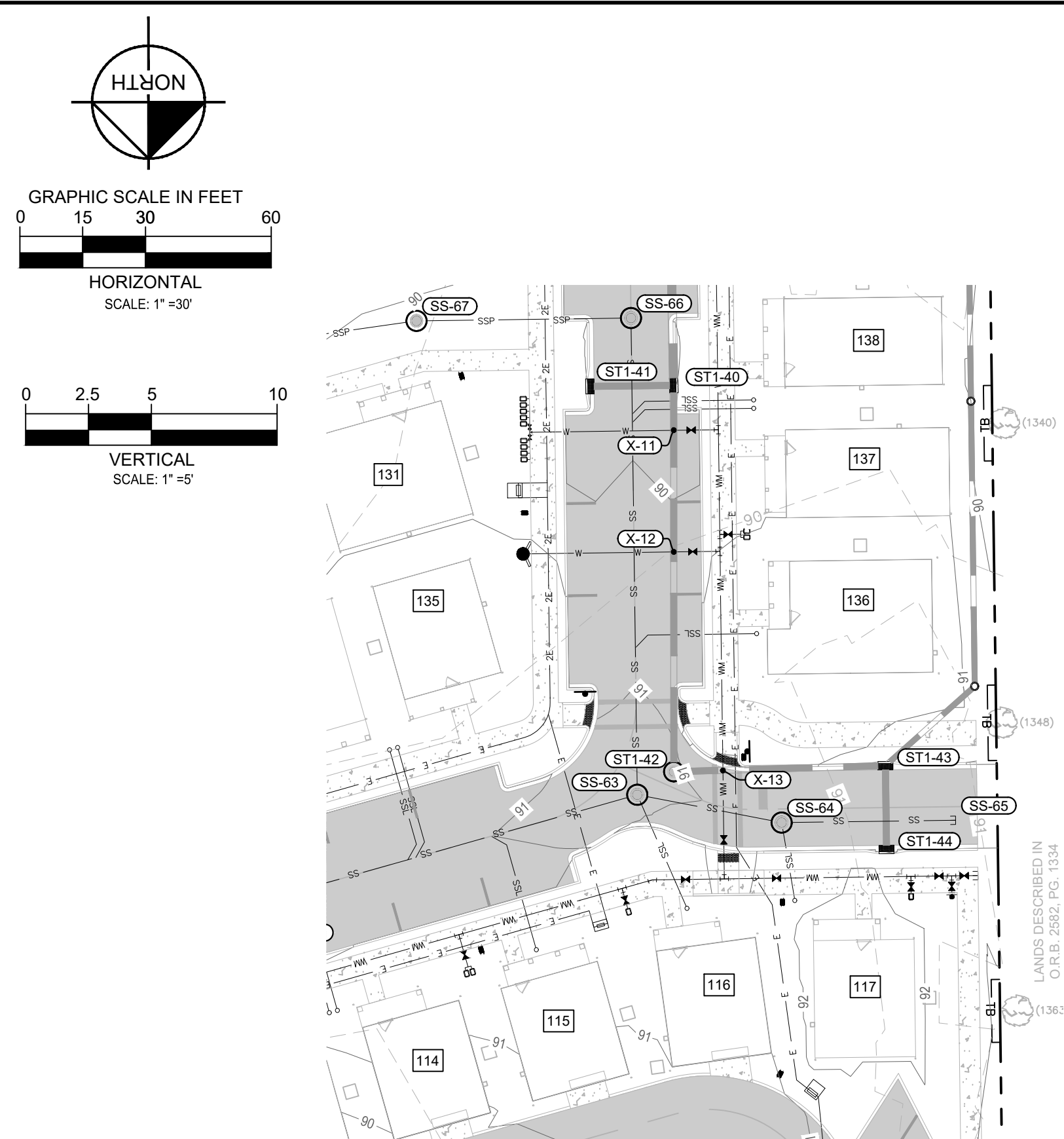
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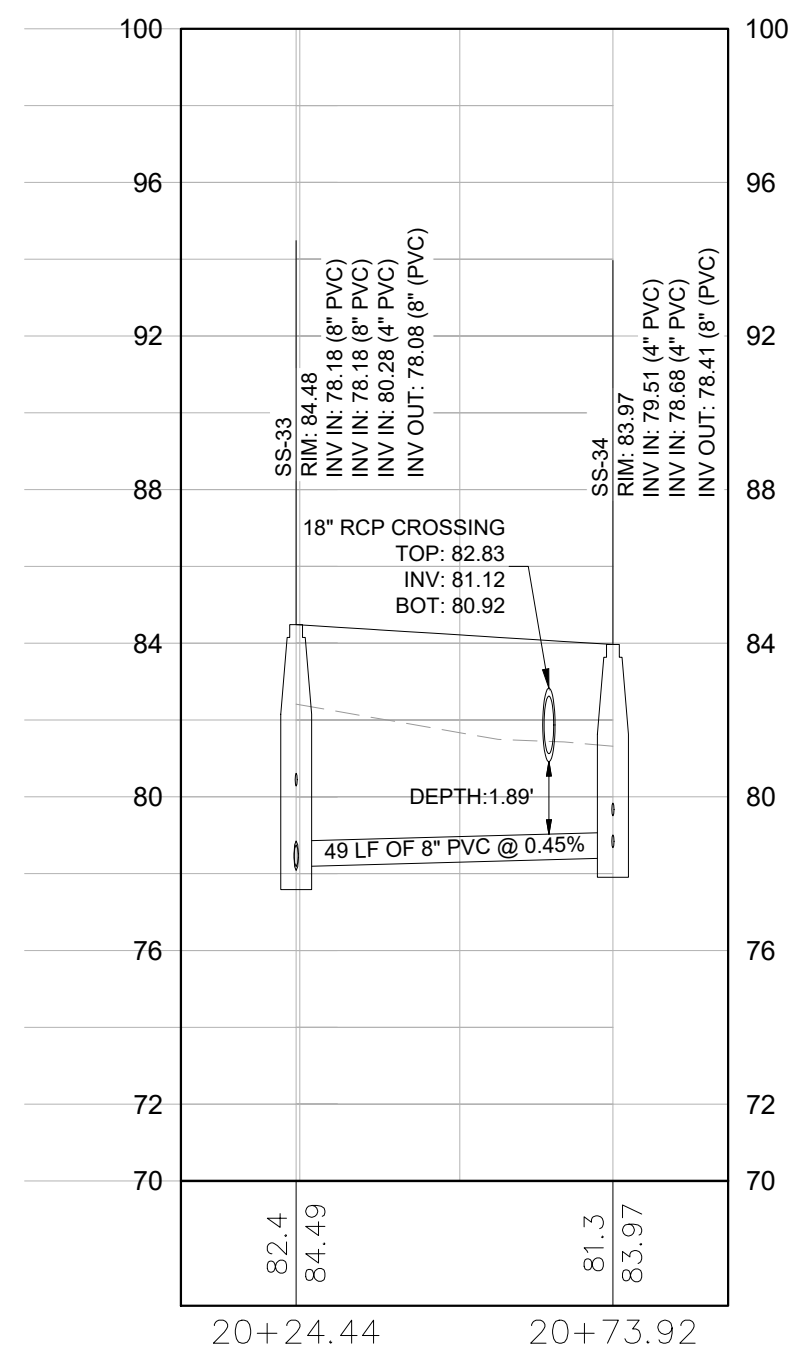


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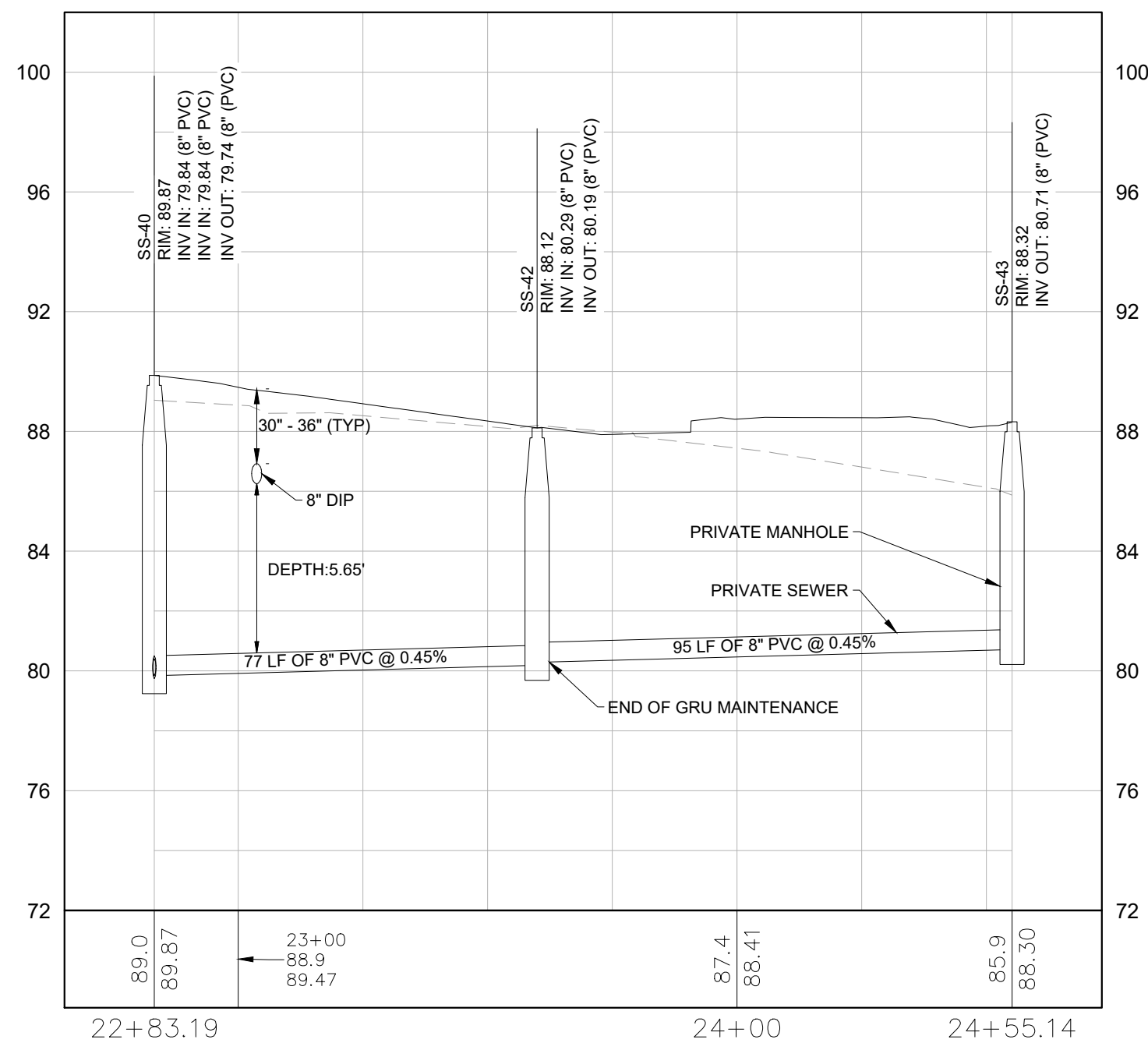


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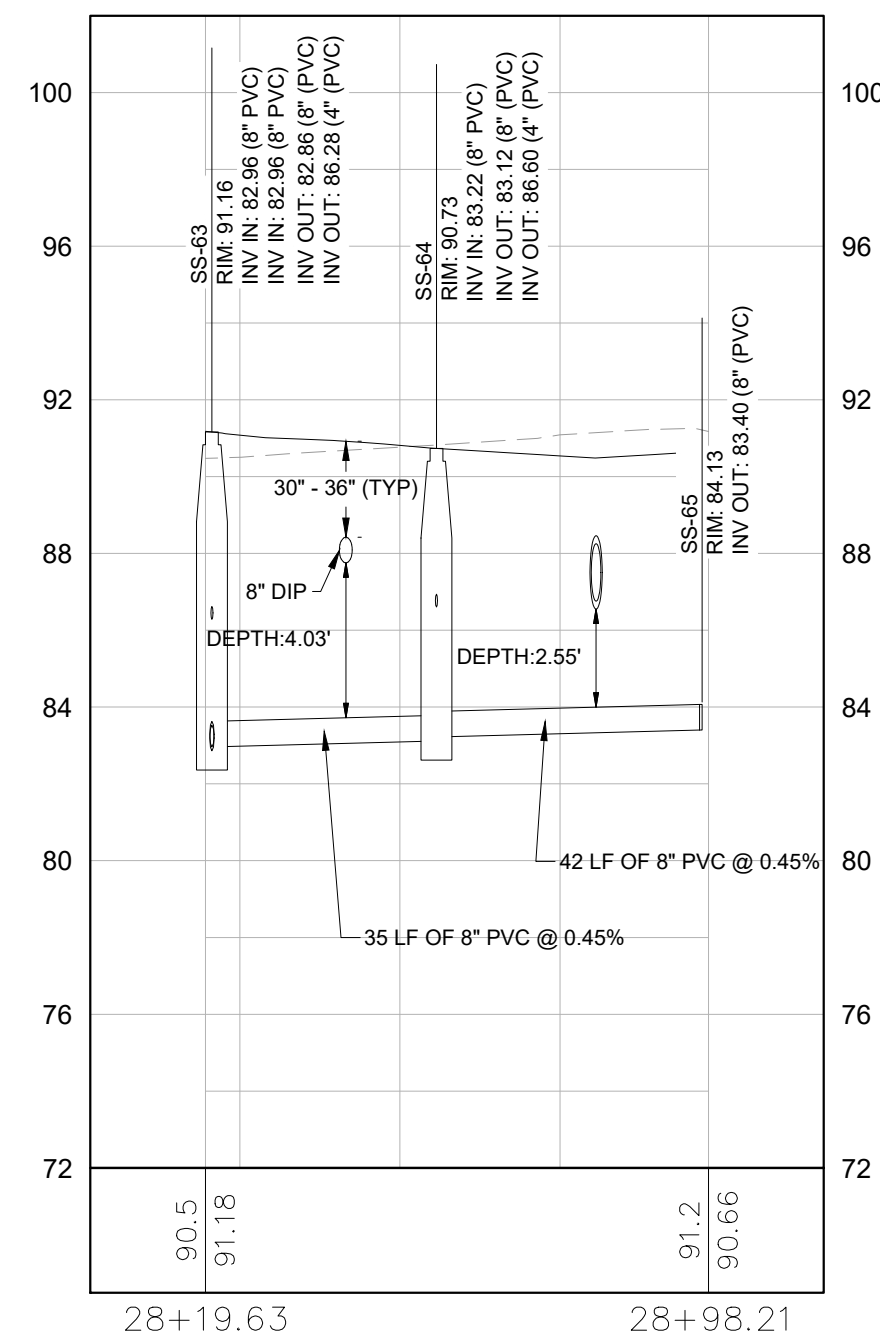
SS-33 TO SS-34



SS-40 TO SS-43



SS-63 TO SS-65



WATER/STORM CROSSING TABLE	
CROSSING #	DETAILS:
X-11	BOT OF PIPE (WATER): 86.58 TOP OF PIPE (STORM): 84.04 VERTICAL CLEARANCE: 2.33
X-12	BOT OF PIPE (WATER): 86.86 TOP OF PIPE (STORM): 84.20 VERTICAL CLEARANCE: 2.45
X-13	BOT OF PIPE (WATER): 87.4 TOP OF PIPE (STORM): 84.53 VERTICAL CLEARANCE: 2.66
X-19	BOT OF PIPE (WATER): 84.82 TOP OF PIPE (STORM): 83.06 VERTICAL CLEARANCE: 1.01
X-20	BOT OF PIPE (WATER): 86.36 TOP OF PIPE (STORM): 83.91 VERTICAL CLEARANCE: 2.20
X-21	BOT OF PIPE (WATER): 80.17 TOP OF PIPE (STORM): 77.88 VERTICAL CLEARANCE: 2.04
X-22	BOT OF PIPE (WATER): 80.33 TOP OF PIPE (STORM): 78.68 VERTICAL CLEARANCE: 1.44

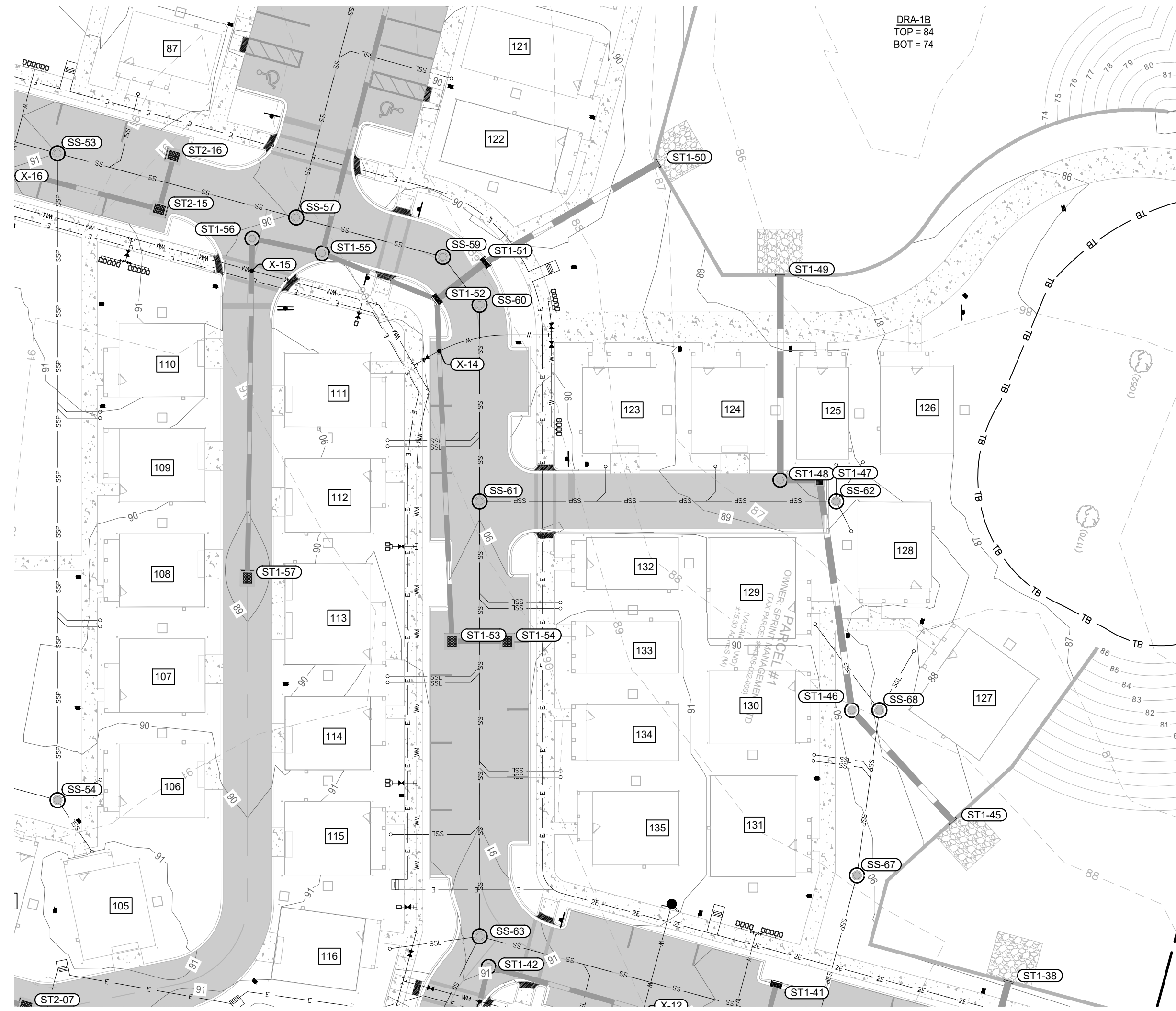
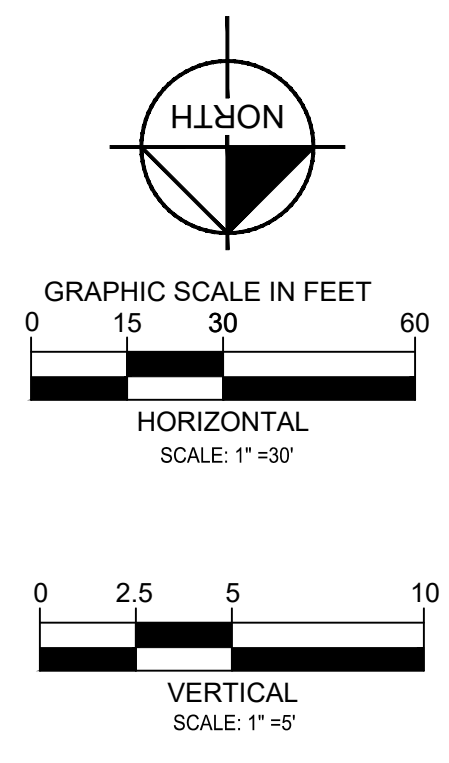
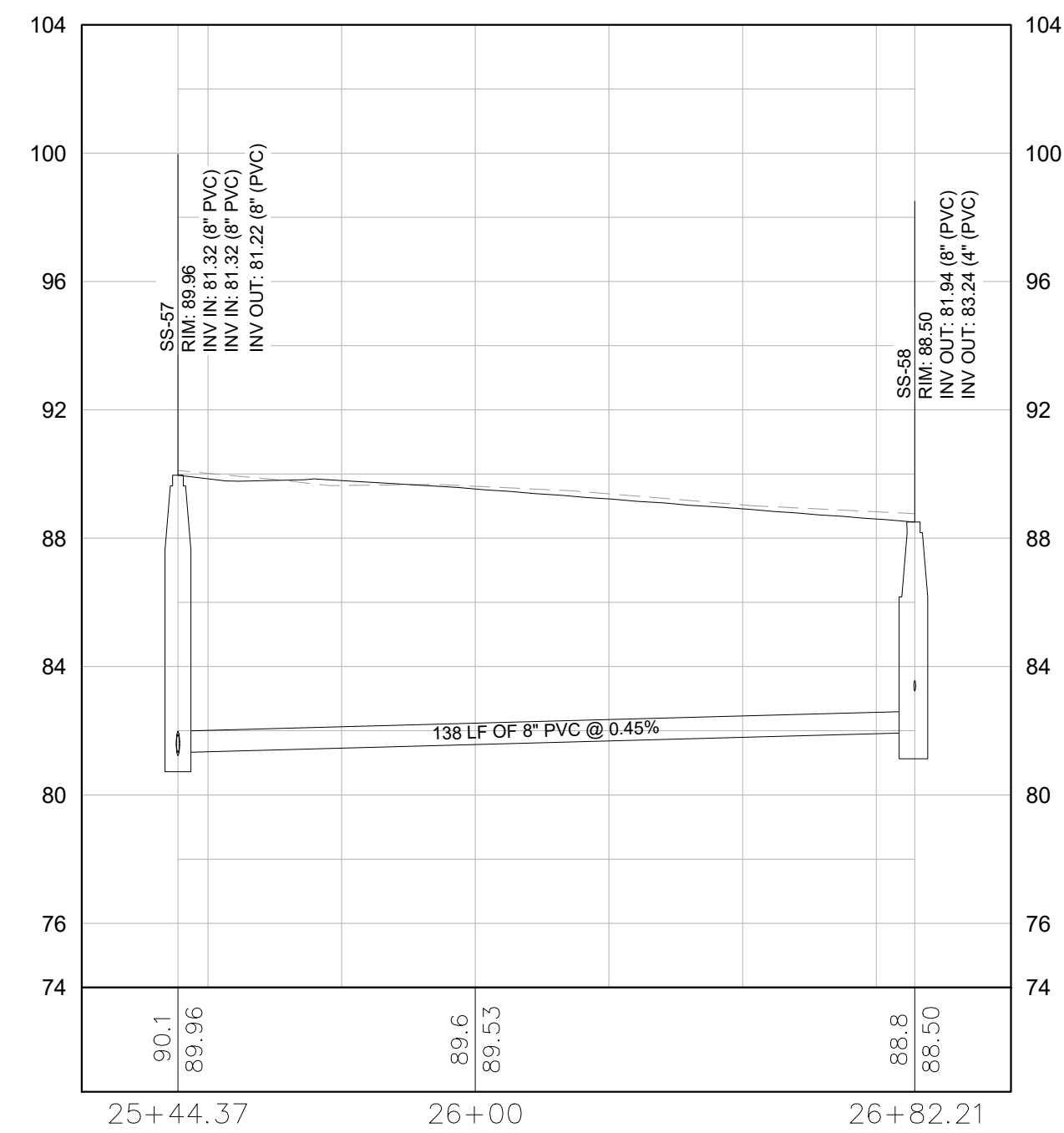
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	SANITARY SEWER PLAN AND PROFILE	SANDS COMPANIES, INC. ALACHUA COUNTY FLORIDA	SHEET NUMBER C8.05

K:\01_Civil\142425000-Gainesville Cottages\Drawings\Sanitary Sewer\Plan and Profile\SS-57 TO SS-58.dwg
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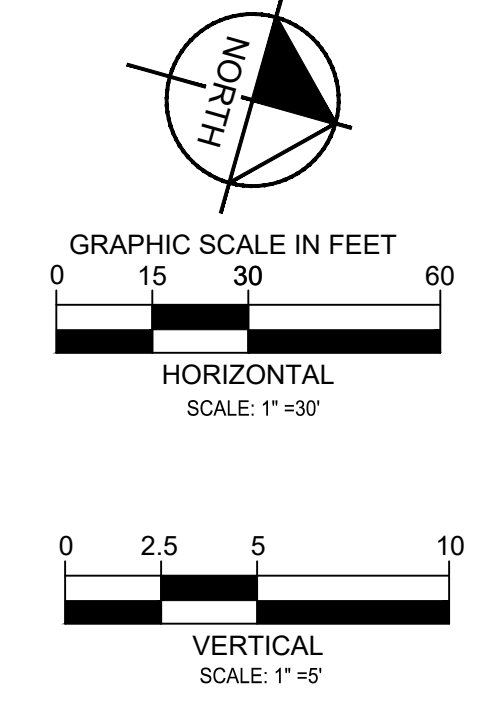
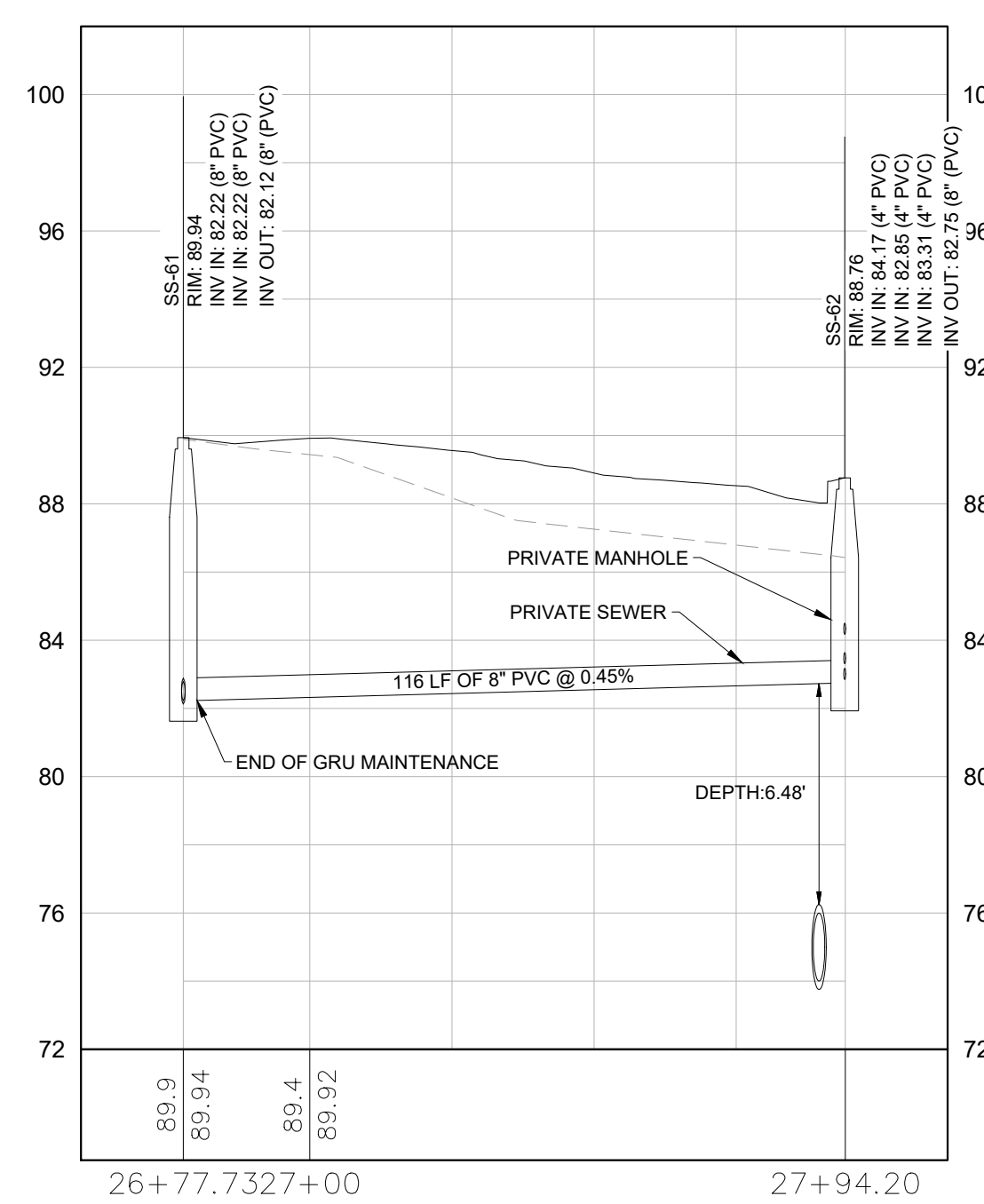
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SS-57 TO SS-58



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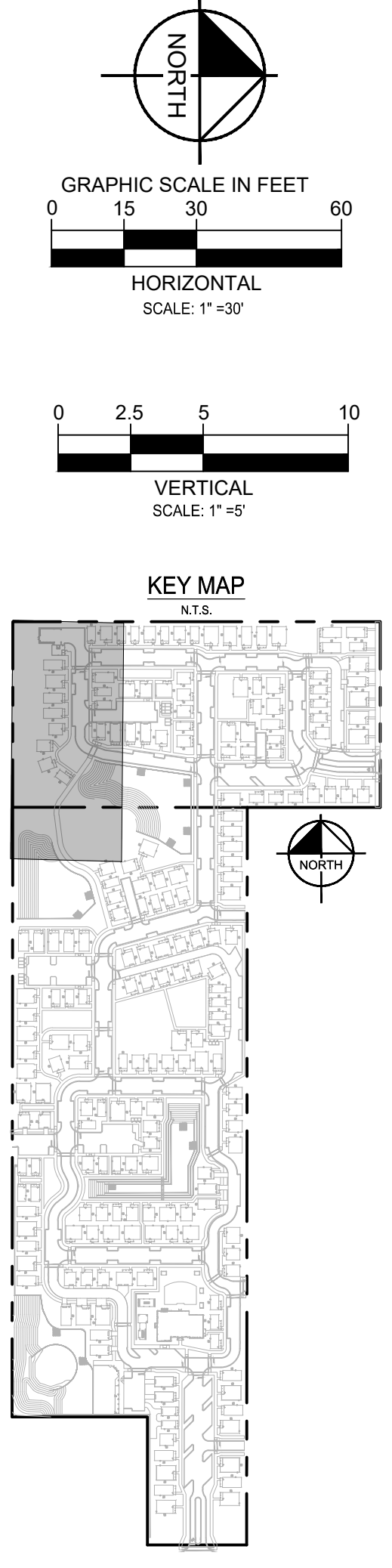
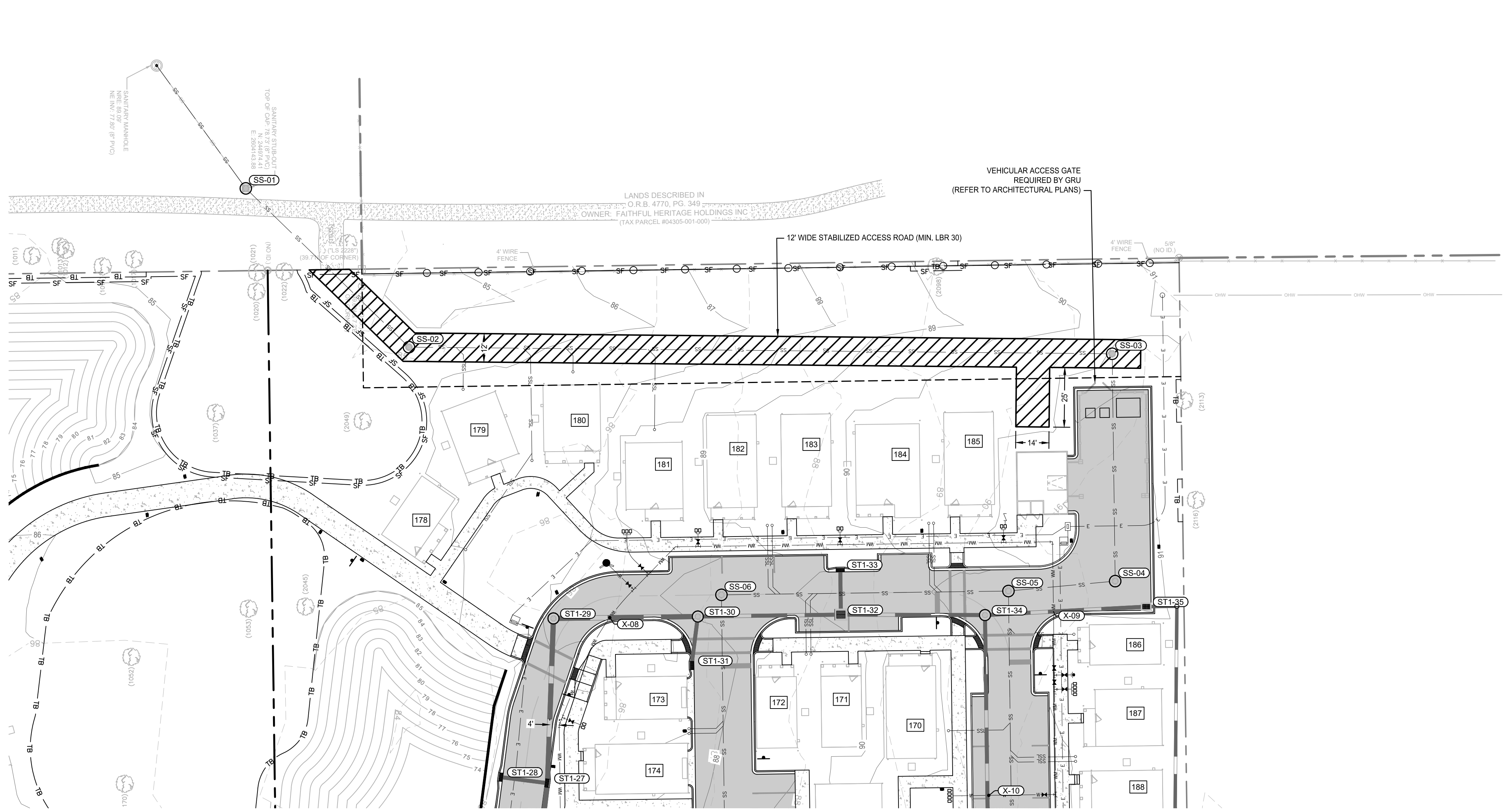
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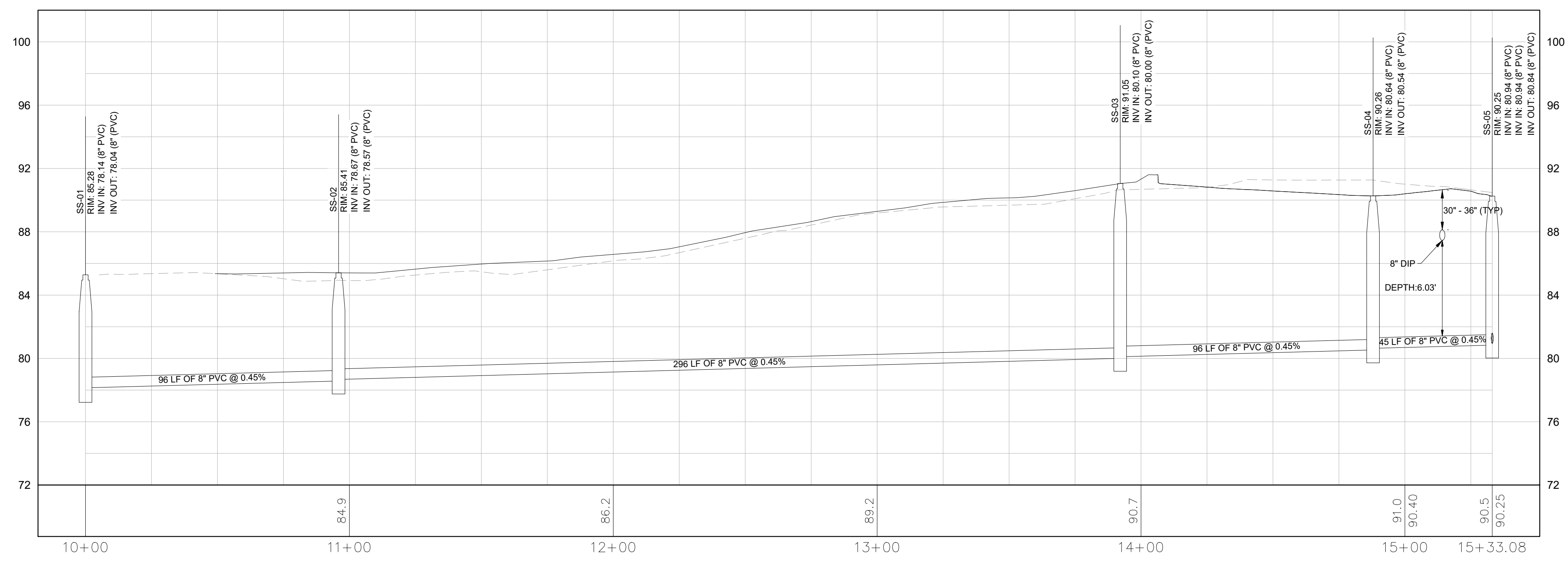
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CROSSING #	DETAILS
X-13	BOT OF PIPE (WATER): 87.4 TOP OF PIPE (STORM): 84.53 VERTICAL CLEARANCE: 2.66
X-14	BOT OF PIPE (WATER): 86.22 TOP OF PIPE (STORM): 84.75 VERTICAL CLEARANCE: 1.26
X-15	BOT OF PIPE (WATER): 86.46 TOP OF PIPE (STORM): 84.96 VERTICAL CLEARANCE: 1.29
X-16	BOT OF PIPE (WATER): 87.64 TOP OF PIPE (STORM): 84.93 VERTICAL CLEARANCE: 2.50

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SHEET NUMBER C8.07					

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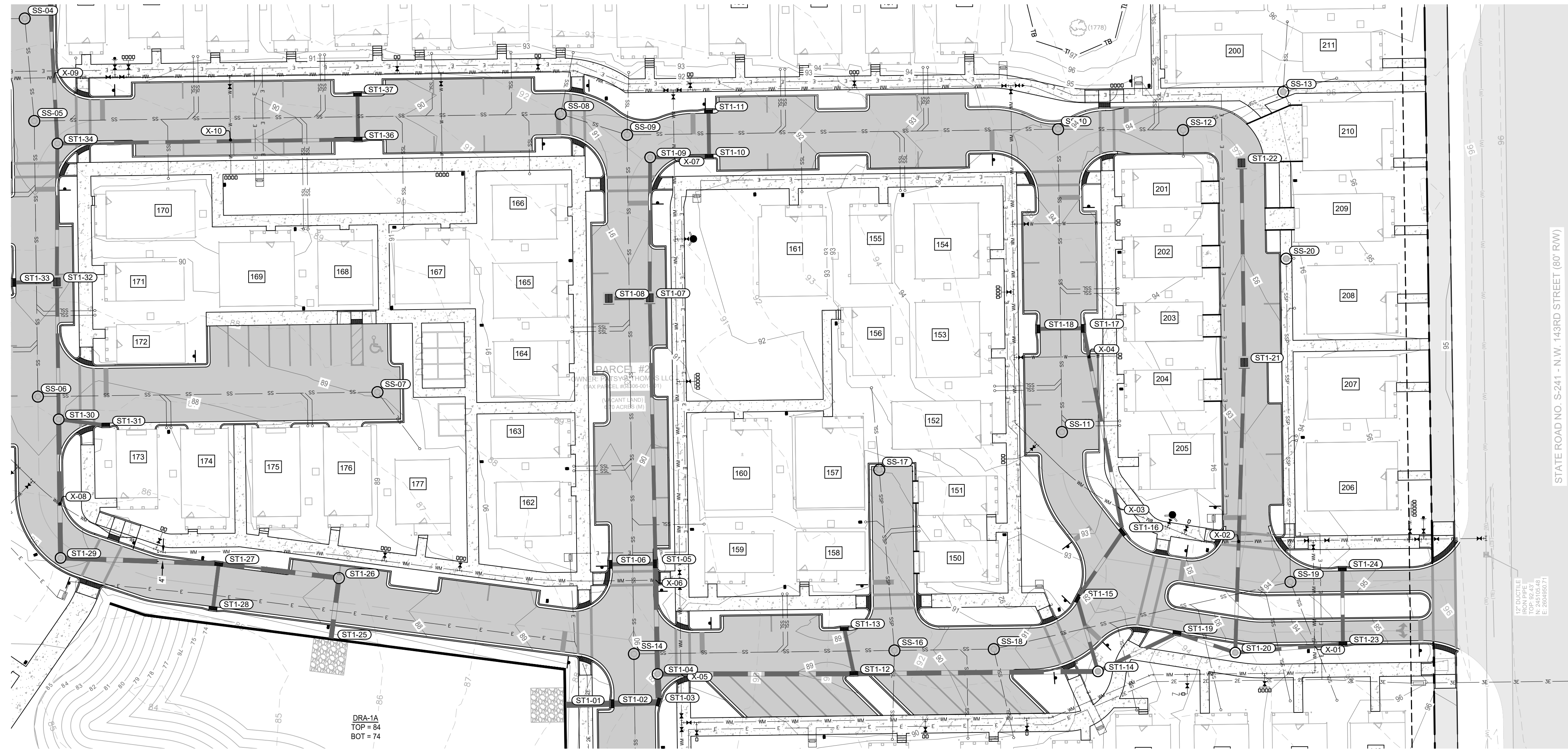
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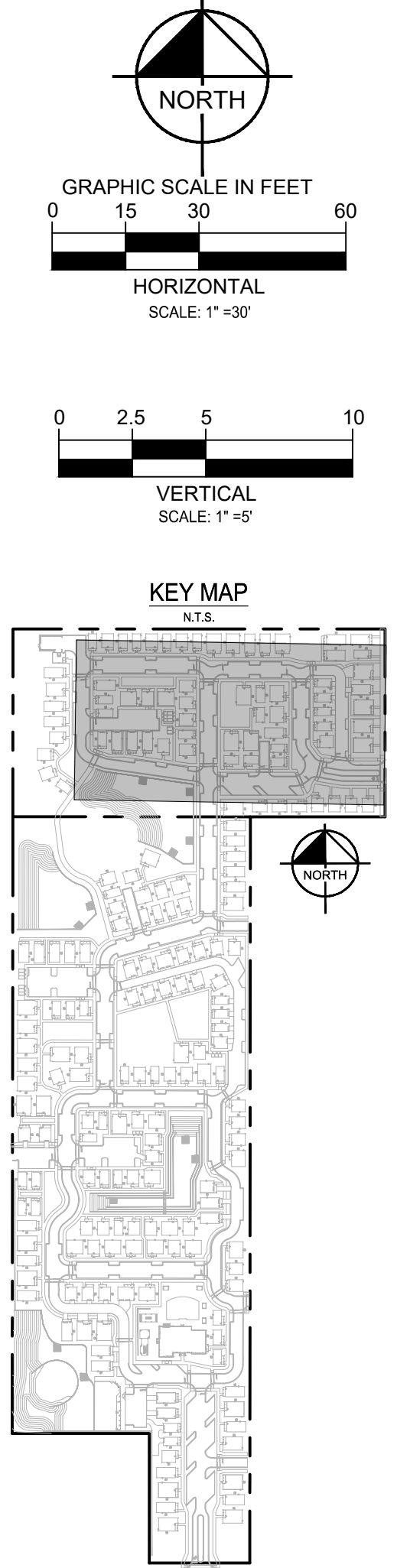
WATER/STORM CROSSING TABLE	
CROSSING #	DETAILS:
X-08	BOT OF PIPE (WATER): 83.59 TOP OF PIPE (STORM): 82.03 VERTICAL CLEARANCE: 1.27
X-09	BOT OF PIPE (WATER): 87.31 TOP OF PIPE (STORM): 85.88 VERTICAL CLEARANCE: 1.22
X-10	BOT OF PIPE (WATER): 87.19 TOP OF PIPE (STORM): 85.95 VERTICAL CLEARANCE: 1.03

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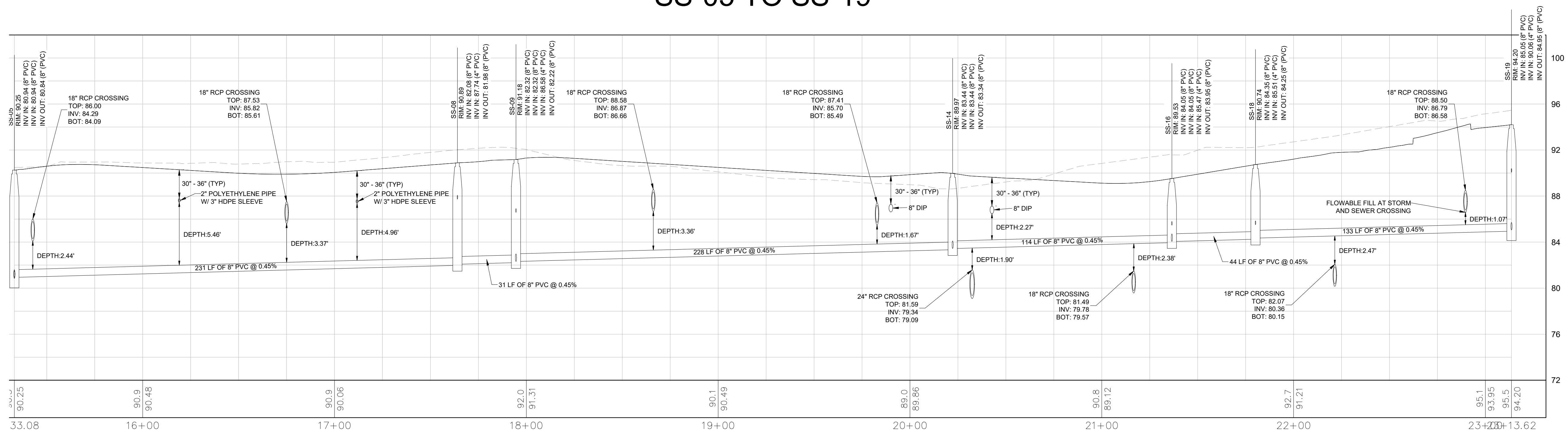
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WATER/STORM CROSSING TABLE	
CROSSING #	DETAILS:
X-01	BOT OF PIPE (WATER): 90.77 TOP OF PIPE (STORM): 88.34 VERTICAL CLEARANCE: 2.21
X-02	BOT OF PIPE (WATER): 90.10 TOP OF PIPE (STORM): 88.39 VERTICAL CLEARANCE: 1.56
X-03	BOT OF PIPE (WATER): 89.99 TOP OF PIPE (STORM): 87.59 VERTICAL CLEARANCE: 2.19
X-04	BOT OF PIPE (WATER): 90.39 TOP OF PIPE (STORM): 87.95 VERTICAL CLEARANCE: 2.24
X-05	BOT OF PIPE (WATER): 86.13 TOP OF PIPE (STORM): 81.84 VERTICAL CLEARANCE: 3.99
X-06	BOT OF PIPE (WATER): 86.21 TOP OF PIPE (STORM): 81.51 VERTICAL CLEARANCE: 4.45
X-07	BOT OF PIPE (WATER): 87.8 TOP OF PIPE (STORM): 85.86 VERTICAL CLEARANCE: 1.73
X-08	BOT OF PIPE (WATER): 83.59 TOP OF PIPE (STORM): 82.03 VERTICAL CLEARANCE: 1.27
X-09	BOT OF PIPE (WATER): 87.31 TOP OF PIPE (STORM): 85.83 VERTICAL CLEARANCE: 1.22
X-10	BOT OF PIPE (WATER): 87.19 TOP OF PIPE (STORM): 85.95 VERTICAL CLEARANCE: 1.03



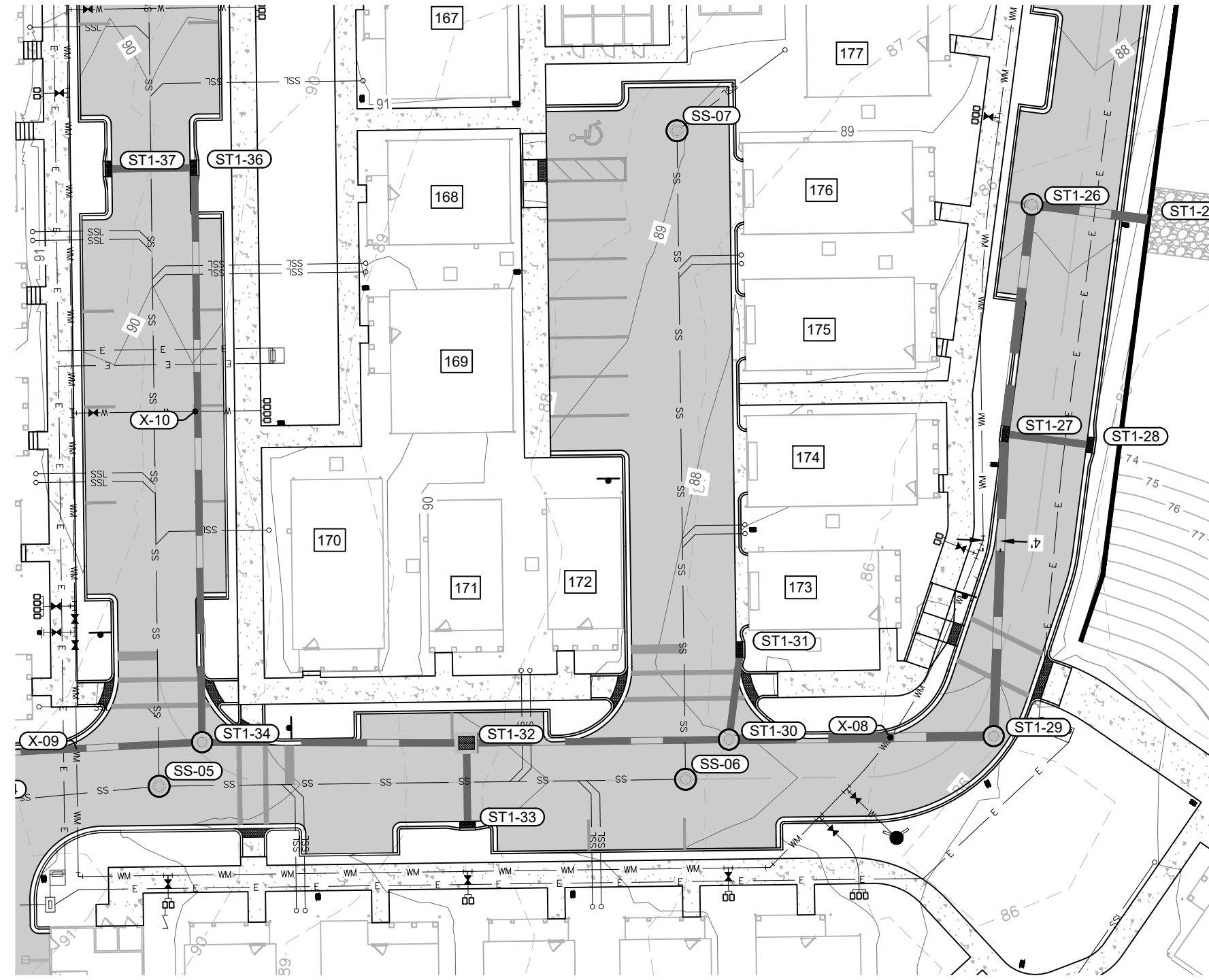
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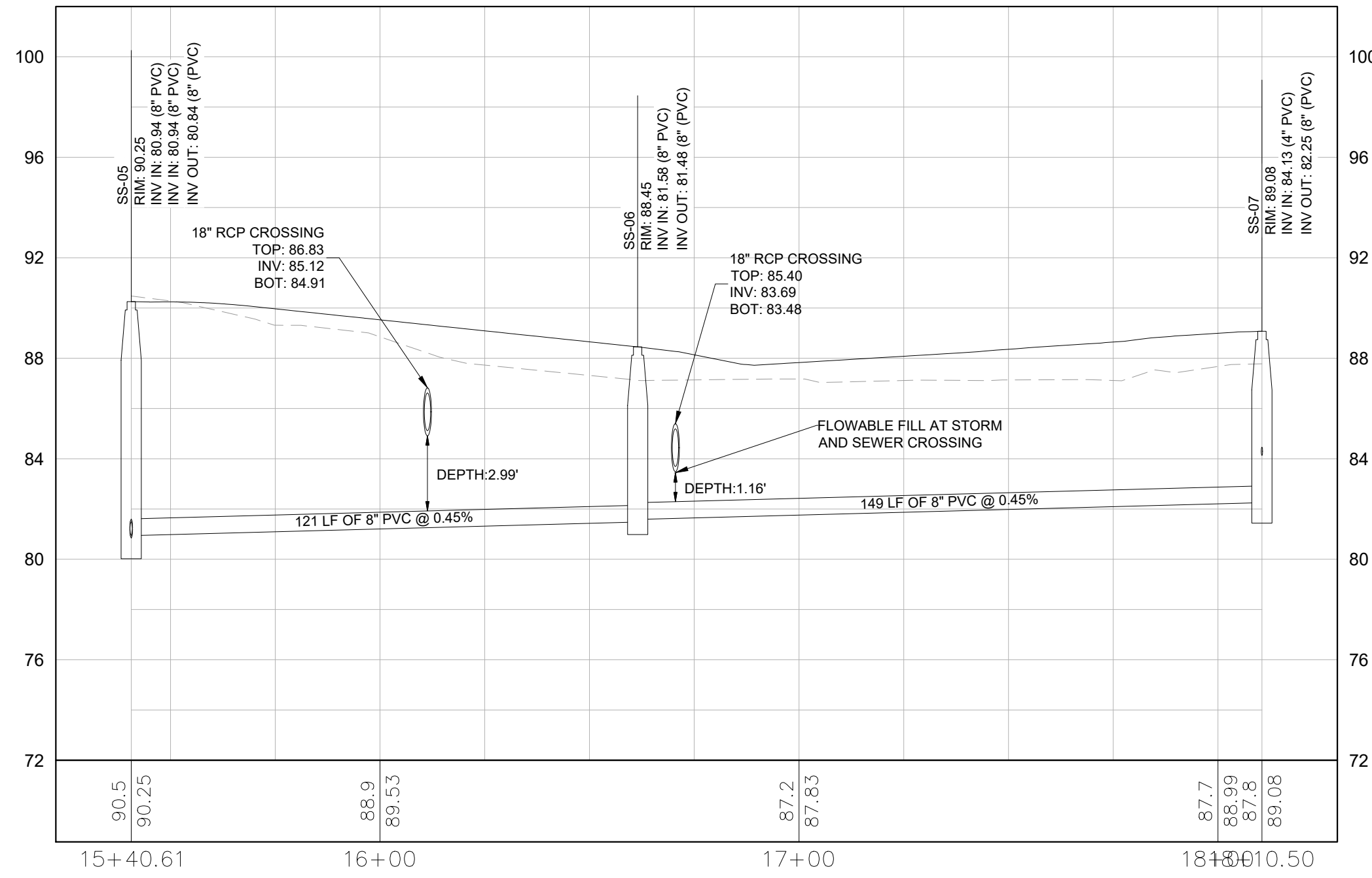
GAINESVILLE COTTAGES TND PREPARED FOR SANDS COMPANIES, INC. ALACHUA COUNTY FLORIDA	KHA PROJECT 142425000 DATE DECEMBER 2023 SCALE AS SHOWN DESIGNED BY KHA DRAWN BY KHA CHECKED BY KHA	LICENSED PROFESSIONAL DAVID C. SOWELL FLORIDA LICENSE NUMBER 66531	<div style="text-align: center;"> </div> <p style="font-size: small;"> © 2023 KIMLEY-HORN AND ASSOCIATES, INC. 800 SW 2ND AVENUE, SUITE 100, GAINESVILLE, FL 32601 PHONE: 352-374-3274 WWW.KIMLEY-HORN.COM </p>
SHEET NUMBER C8.09	NOT FOR CONSTRUCTION	REVISIONS No. DATE BY	DATE BY

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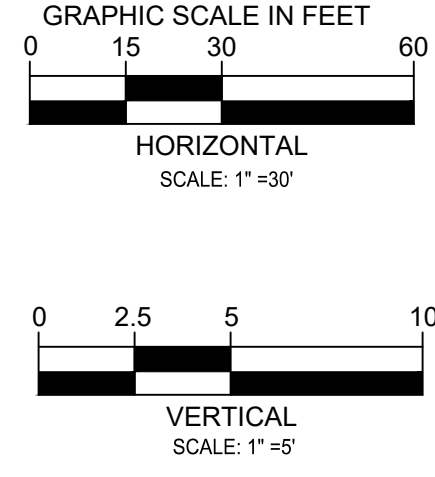
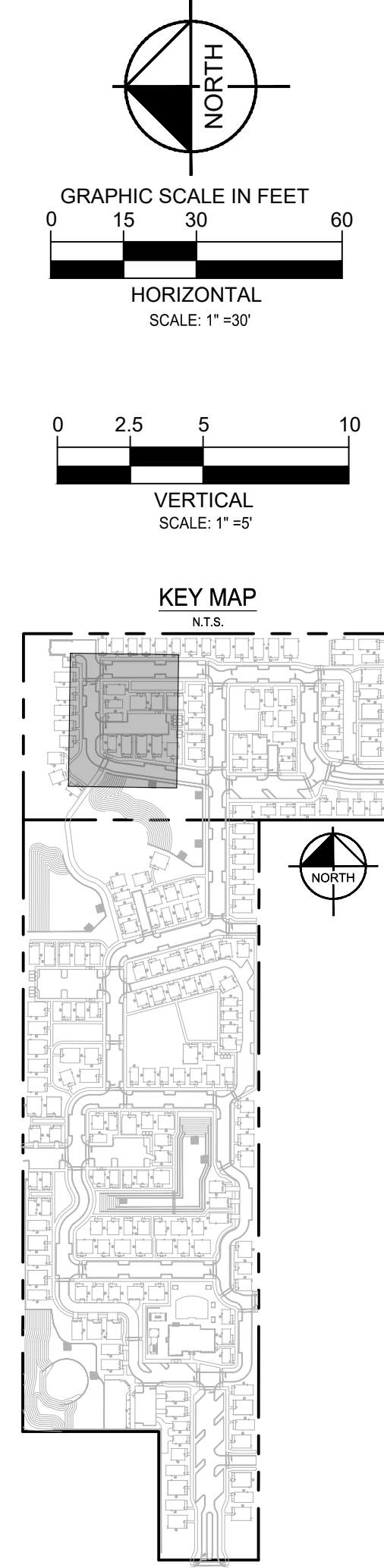
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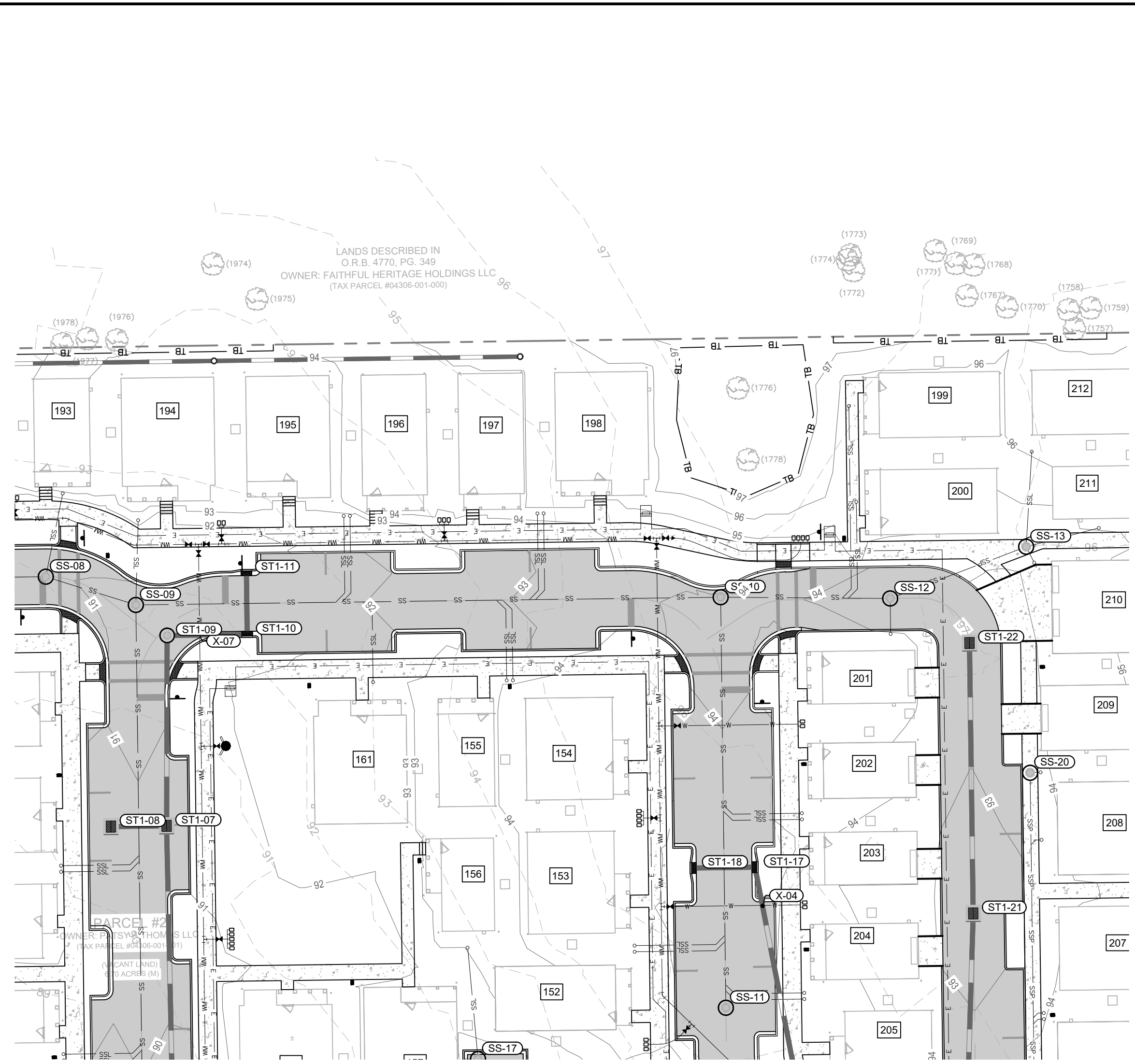


WATER/STORM CROSSING TABLE	
CROSSING #	DETAILS:
X-08	BOT OF PIPE (WATER): 83.59 TOP OF PIPE (STORM): 82.03 VERTICAL CLEARANCE: 1.27
X-09	BOT OF PIPE (WATER): 87.31 TOP OF PIPE (STORM): 85.88 VERTICAL CLEARANCE: 1.22
X-10	BOT OF PIPE (WATER): 87.19 TOP OF PIPE (STORM): 85.85 VERTICAL CLEARANCE: 1.03

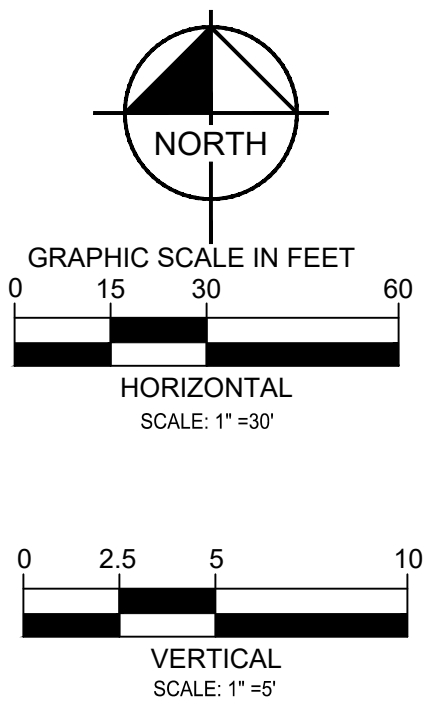
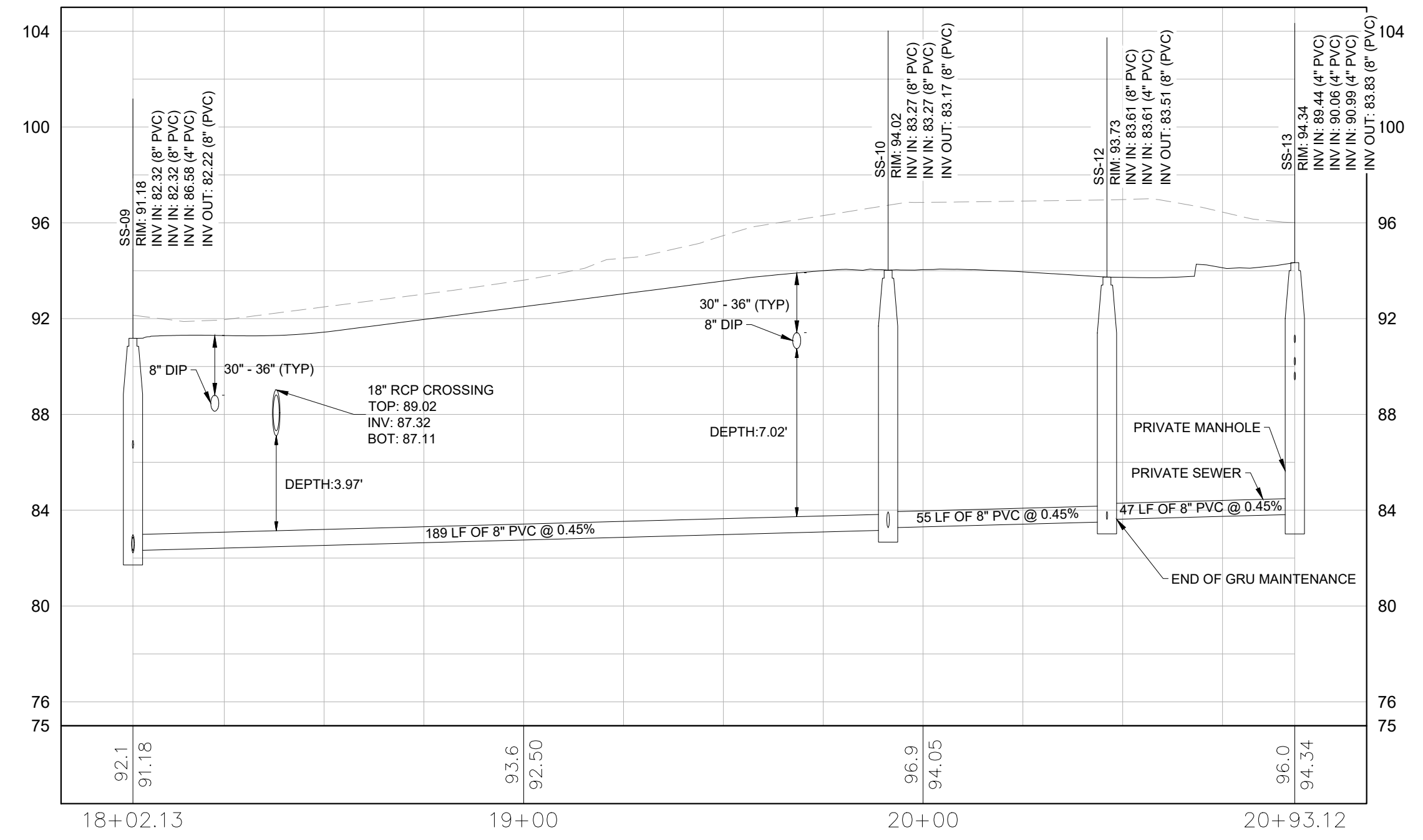


GAINESVILLE COTTAGES TND PREPARED FOR SANDS COMPANIES, INC. <small>ALACHUA COUNTY FLORIDA</small>	SANITARY SEWER PLAN AND PROFILE	LICENSED PROFESSIONAL DAVID C. SOWELL FLORIDA LICENSE NUMBER 66551	KHA PROJECT 142425000 DATE DECEMBER 2023 SCALE AS SHOWN DESIGNED BY KHA DRAWN BY KHA CHECKED BY KHA
SHEET NUMBER C8.10	Kimley»Horn <small>© 2023 KIMLEY-HORN AND ASSOCIATES, INC. 800 SW 2ND AVENUE, SUITE 100, GAINESVILLE, FL 32601 WWW.KIMLEY-HORN.COM REGISTRY NO. 35106</small>	NOT FOR CONSTRUCTION No. _____ REVISIONS _____ DATE _____ BY _____	

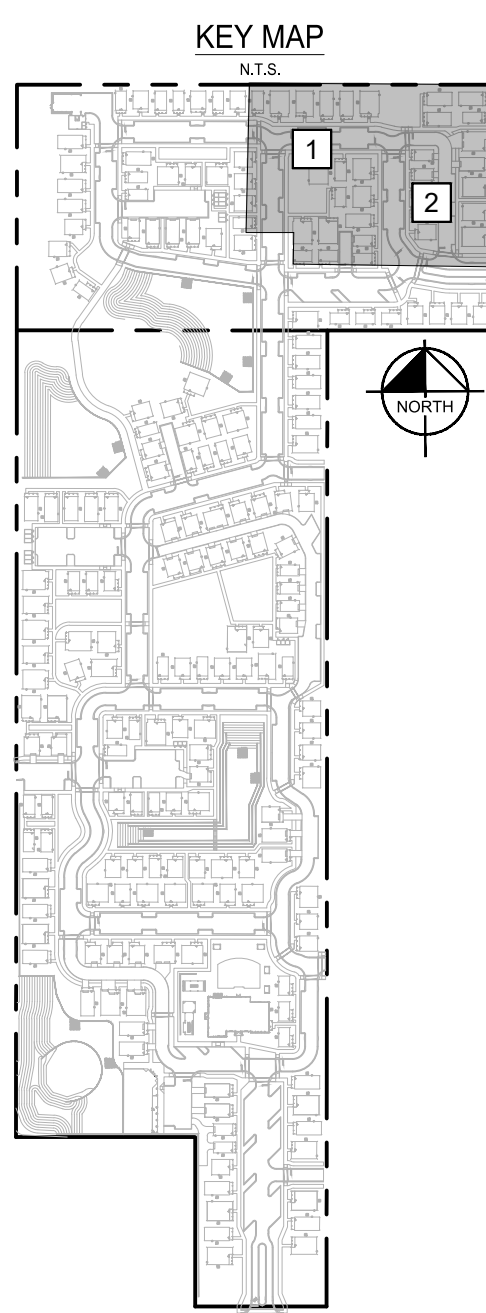
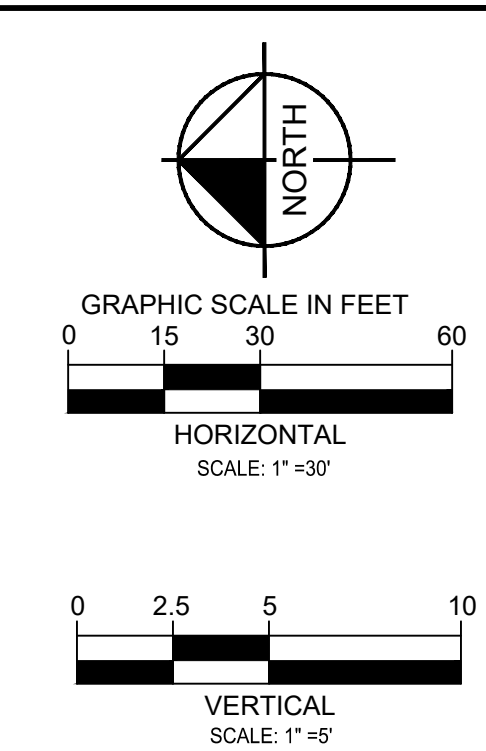
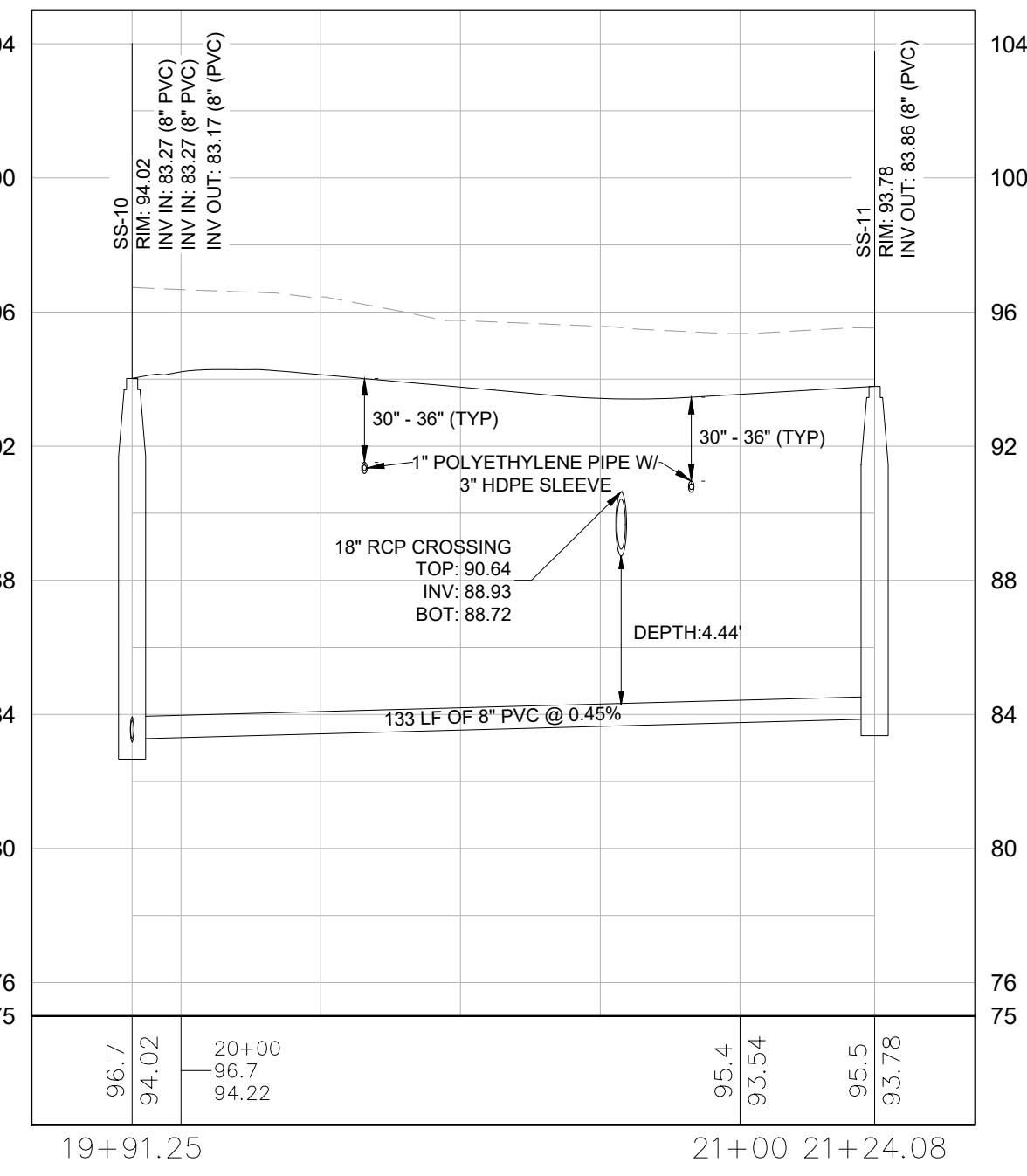
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1
SS-09 TO SS-13



2
SS-10 TO SS-11

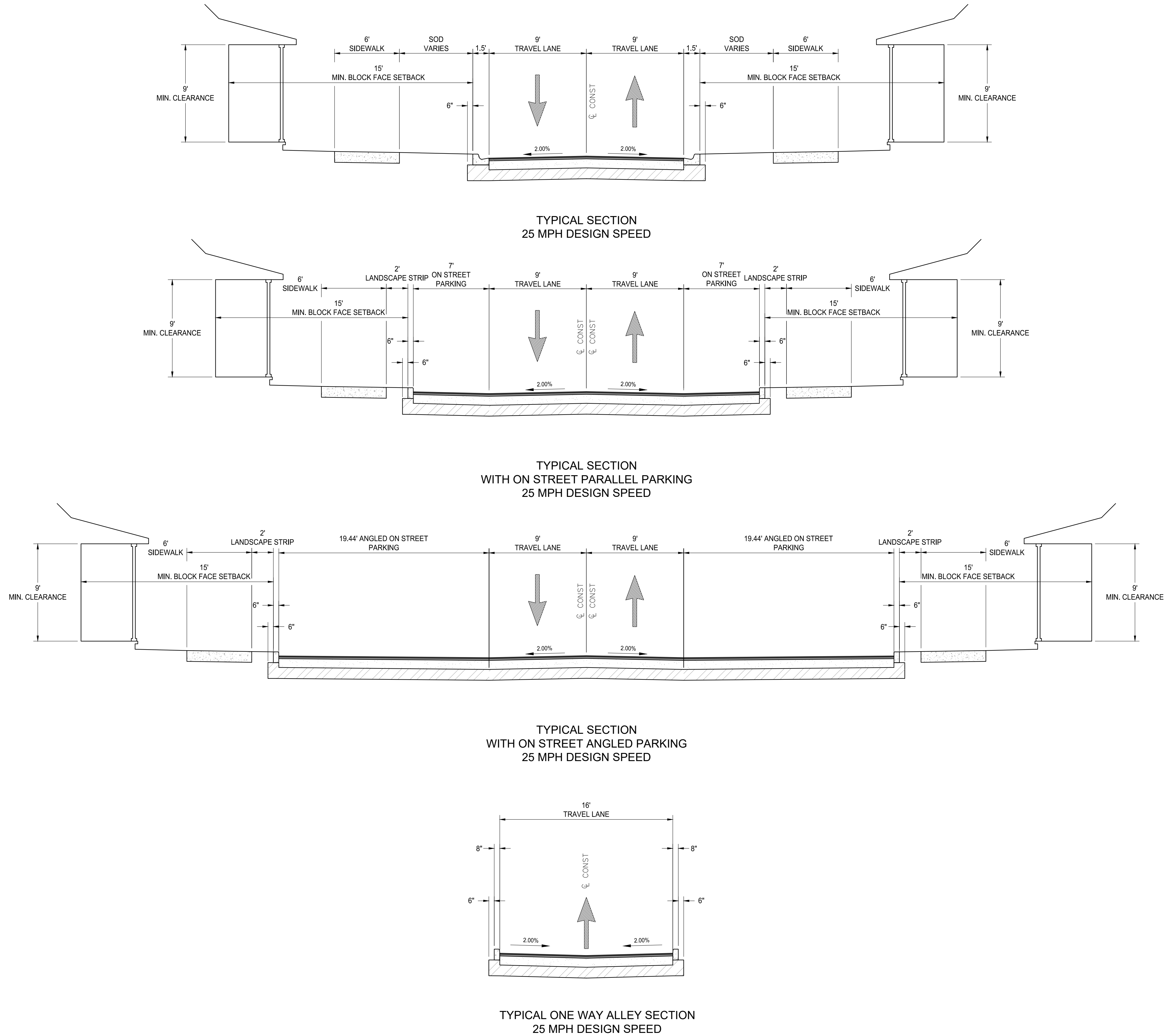


WATER/STORM CROSSING TABLE	
CROSSING #	DETAILS:
X-02	BOT OF PIPE (WATER): 90.16 TOP OF PIPE (STORM): 88.39 VERTICAL CLEARANCE: 1.56
X-03	BOT OF PIPE (WATER): 89.99 TOP OF PIPE (STORM): 87.59 VERTICAL CLEARANCE: 2.19
X-04	BOT OF PIPE (WATER): 90.39 TOP OF PIPE (STORM): 87.95 VERTICAL CLEARANCE: 2.24
X-07	BOT OF PIPE (WATER): 87.8 TOP OF PIPE (STORM): 85.86 VERTICAL CLEARANCE: 1.73

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<small>LICENSED PROFESSIONAL</small> DAVID C. SOWELL <small>FLORIDA LICENSE NUMBER</small> 66551	<small>CHECKED BY:</small> KHA <small>DATE:</small> _____			
<small>KHA PROJECT</small> 142425000	<small>DATE</small> DECEMBER 2023	<small>SCALE</small> AS SHOWN	<small>DRAWN BY</small> KHA	<small>CHECKED BY</small> KHA
SANITARY SEWER PLAN AND PROFILE				
GAINESVILLE COTTAGES TND				
<small>PREPARED FOR</small> SANDS COMPANIES, INC. <small>ALACHUA COUNTY FLORIDA</small>				
<small>SHEET NUMBER</small> C8.11				
<small>NO.</small>	<small>REVISIONS</small>	<small>DATE</small>	<small>BY</small>	<small>BY</small>

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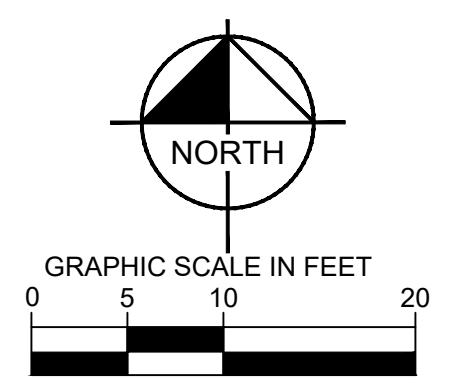
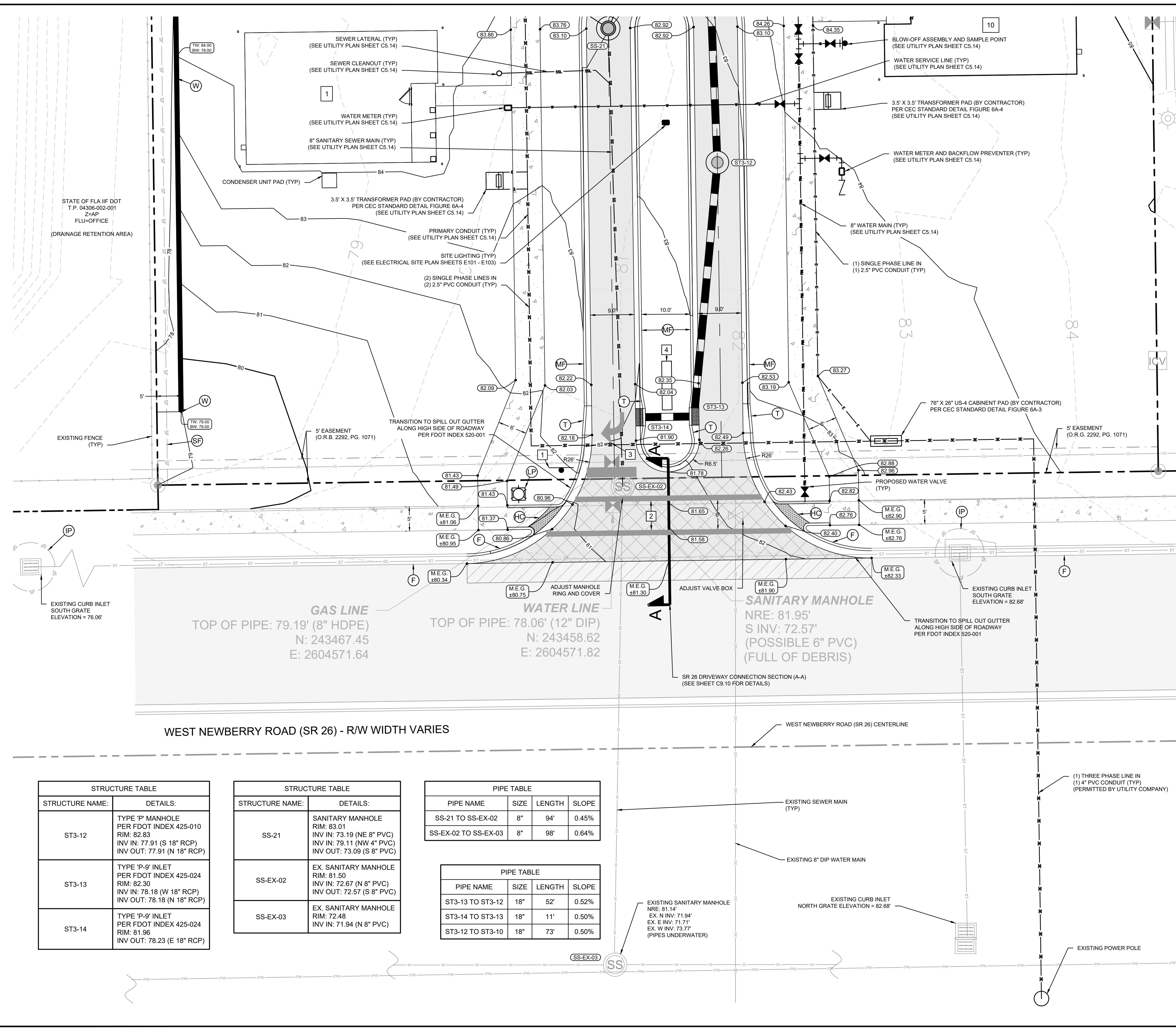
LICENSED PROFESSIONAL	DAVID C. SOWELL
FLORIDA LICENSE NUMBER	665531
KHA PROJECT	142425000
DATE	DECEMBER 2023
SCALE	AS SHOWN
DESIGNED BY	KHA
DRAWN BY	KHA
CHECKED BY	KHA
DATE	

ROAD SECTIONS

GAINESVILLE COTTAGES
 TND
 PREPARED FOR
SANDS COMPANIES, INC.
 ALACHUA COUNTY FLORIDA

SHEET NUMBER
C8.20

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- PAVEMENT LEGEND**
- STANDARD DUTY ASPHALT PAVEMENT (SEE DETAIL SHEET C9.10)
 - FDOT RW ASPHALT PAVEMENT (SEE DETAIL SHEET C9.10)
 - LIMITS OF MILLING AND RESURFACING (RESTRIPES AS NEEDED PER FDOT INDEX 711-001)
 - CONCRETE SIDEWALK (SEE DETAIL SHEET C7.00)

- SITE LEGEND**
- PROPOSED SPOT ELEVATION (ALL POINTS ARE LOCATED AT EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED)
 - SANITARY SEWER STRUCTURE LABEL
 - STORM DRAINAGE STRUCTURE LABEL
 - PROPOSED CURB INLET
 - PROPOSED DRAINAGE INLET
 - PROPOSED STORMWATER MANHOLE
 - PROPOSED STORMWATER CLEANOUT
 - PROPOSED MITERED END SECTION
 - PROPOSED STORM PIPE
 - EXISTING CONTOURS
 - PROPOSED CONTOURS
 - PROPOSED FLOW DIRECTION ARROWS

- TYPE 'F' CURB (PER FDOT INDEX 520-001)
- MODIFIED TYPE 'F' CURB (SEE DETAIL SHEET C7.00)
- 6" CURB TRANSITION FROM TYPE 'F' TO MODIFIED TYPE 'F' CURB
- CR-E OPTION A CURB RAMP (PER FDOT INDEX 522-002)
- RELOCATED LIGHT POLE
- RETAINING WALL (SEE STRUCTURAL PLANS)
- SILT FENCE (SEE DETAIL SHEET C6.30)
- INLET PROTECTION (SEE DETAIL SHEET C6.30)

- SIGNAGE AND PAVEMENT MARKING LEGEND**
- 36" STOP SIGN (R1-1) WITH 30"x36" RIGHT TURN ONLY SIGN (R3-5), STREET NAME SIGN, AND 24" WHITE STOP BAR, 4" MIN FROM CROSSWALK
 - 12" WHITE CROSSWALK STRIPE (PER FDOT INDEX 711-001)
 - WHITE DIRECTIONAL ARROW (PER FDOT INDEX 711-001)
 - MONUMENT SIGN (SEE ARCHITECTURAL PLANS)

- NOTES:**
- ALL WORK AND MATERIALS SHALL COMPLY WITH ALL LOCAL AGENCY REGULATIONS AND CODES AND O.S.H.A. STANDARDS.
 - PRIOR TO CONSTRUCTION WITHIN ANY EXISTING PUBLIC RIGHT-OF-WAY, THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FROM THE AUTHORITY HAVING JURISDICTION.
 - ALL ACCESSIBLE ROUTES, GENERAL SITE AND BUILDING ELEMENTS, RAMPS, CURB RAMPS, STRIPING, AND PAVEMENT MARKINGS SHALL CONFORM TO ADA STANDARDS FOR ACCESSIBLE DESIGN, LATEST EDITION.
 - BEFORE PLACING PAVEMENT, CONTRACTOR SHALL VERIFY THAT SUITABLE ACCESSIBLE PEDESTRIAN ROUTES (PER ADA AND FHA) EXIST TO AND FROM EVERY DOOR AND ALONG SIDEWALKS, ACCESSIBLE PARKING SPACES, ACCESS AISLES, AND ACCESSIBLE ROUTES. IN NO CASE SHALL AN ACCESSIBLE RAMP SLOPE EXCEED 1 VERTICAL TO 12 HORIZONTAL. IN NO CASE SHALL SIDEWALK CROSS SLOPE EXCEED 2.00 PERCENT. IN NO CASE SHALL LONGITUDINAL SIDEWALK SLOPE EXCEED 5.00 PERCENT. ACCESSIBLE PARKING SPACES AND ACCESS AISLES SHALL NOT EXCEED 2.00 PERCENT SLOPE IN ANY DIRECTION.
 - CONTRACTOR SHALL TAKE FIELD SLOPE MEASUREMENTS ON FINISHED SUBGRADE AND FORM BOARDS PRIOR TO PLACING PAVEMENT TO VERIFY THAT ADA SLOPE REQUIREMENTS ARE PROVIDED. CONTRACTOR SHALL CONTACT ENGINEER PRIOR TO PAYING IF ANY EXCESSIVE SLOPES ARE ENCOUNTERED. NO CONTRACTOR CHANGE ORDERS WILL BE ACCEPTED FOR ADA SLOPE COMPLIANCE ISSUES.
 - TEMPORARY VEHICULAR AND PEDESTRIAN TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH FDOT INDEX 102-600, 102-601, 102-602, 102-605, AND 102-661. CONTRACTOR SHALL PREPARE A TEMPORARY TRAFFIC CONTROL PLAN AND RECEIVE APPROVAL FROM THE GAINESVILLE MAINTENANCE OFFICE PRIOR TO WORKING IN THE RIGHT-OF-WAY.

STRUCTURE TABLE	
STRUCTURE NAME:	DETAILS:
ST3-12	TYPE 'F' MANHOLE PER FDOT INDEX 425-010 RIM: 82.83 INV IN: 77.91 (S 18" RCP) INV OUT: 77.91 (N 18" RCP)
ST3-13	TYPE 'P-9' INLET PER FDOT INDEX 425-024 RIM: 82.30 INV IN: 78.18 (W 18" RCP) INV OUT: 78.18 (N 18" RCP)
ST3-14	TYPE 'P-9' INLET PER FDOT INDEX 425-024 RIM: 81.96 INV OUT: 78.23 (E 18" RCP)

STRUCTURE TABLE	
STRUCTURE NAME:	DETAILS:
SS-21	SANITARY MANHOLE RIM: 83.01 INV IN: 73.19 (NE 8" PVC) INV IN: 79.11 (NW 4" PVC) INV OUT: 73.09 (S 8" PVC)
SS-EX-02	EX. SANITARY MANHOLE RIM: 81.50 INV IN: 72.67 (N 8" PVC) INV OUT: 72.57 (S 8" PVC)
SS-EX-03	EX. SANITARY MANHOLE RIM: 72.48 INV IN: 71.94 (N 8" PVC)

PIPE TABLE				
PIPE NAME	SIZE	LENGTH	SLOPE	
SS-21 TO SS-EX-02	8"	94'	0.45%	
SS-EX-02 TO SS-EX-03	8"	98'	0.64%	

PIPE TABLE				
PIPE NAME	SIZE	LENGTH	SLOPE	
ST3-13 TO ST3-12	18"	52'	0.52%	
ST3-14 TO ST3-13	18"	11'	0.50%	
ST3-12 TO ST3-10	18"	73'	0.50%	

GAS LINE
TOP OF PIPE: 79.19' (8" HDPE)
N: 243467.45
E: 2604571.64

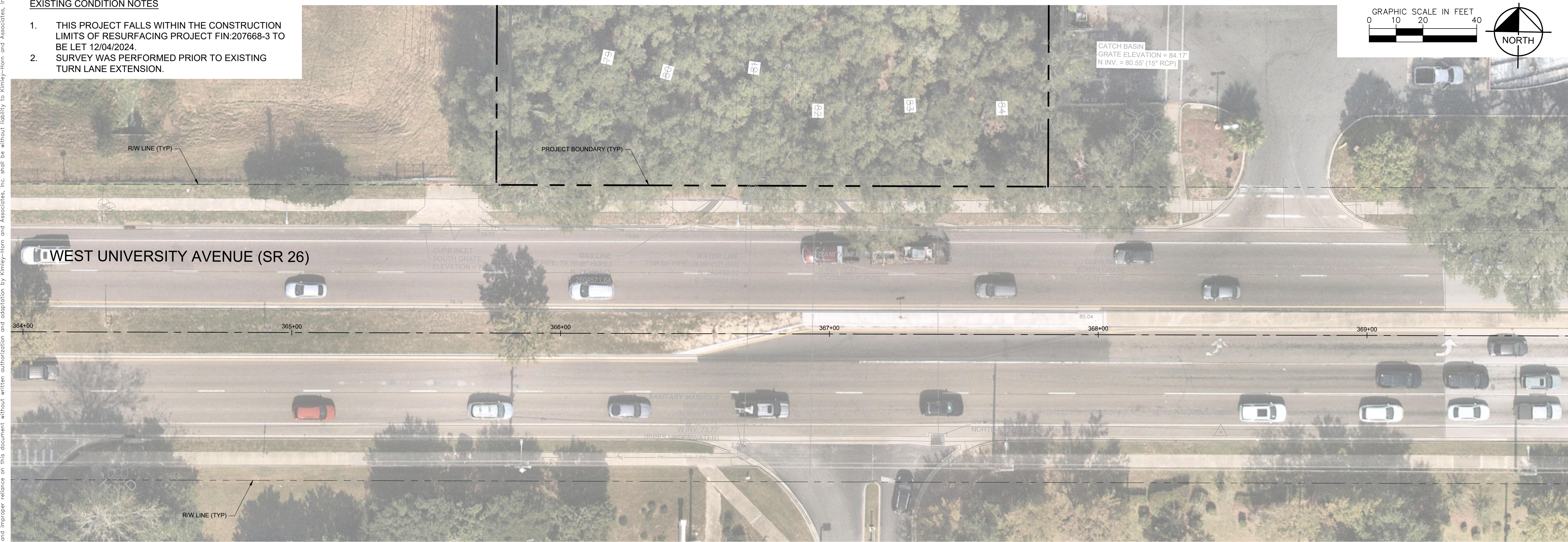
WATER LINE
TOP OF PIPE: 78.06' (12" DIP)
N: 243458.62
E: 2604571.82

SANITARY MANHOLE
NRE: 81.95'
S INV: 72.57'
(POSSIBLE 6" PVC)
(FULL OF DEBRIS)

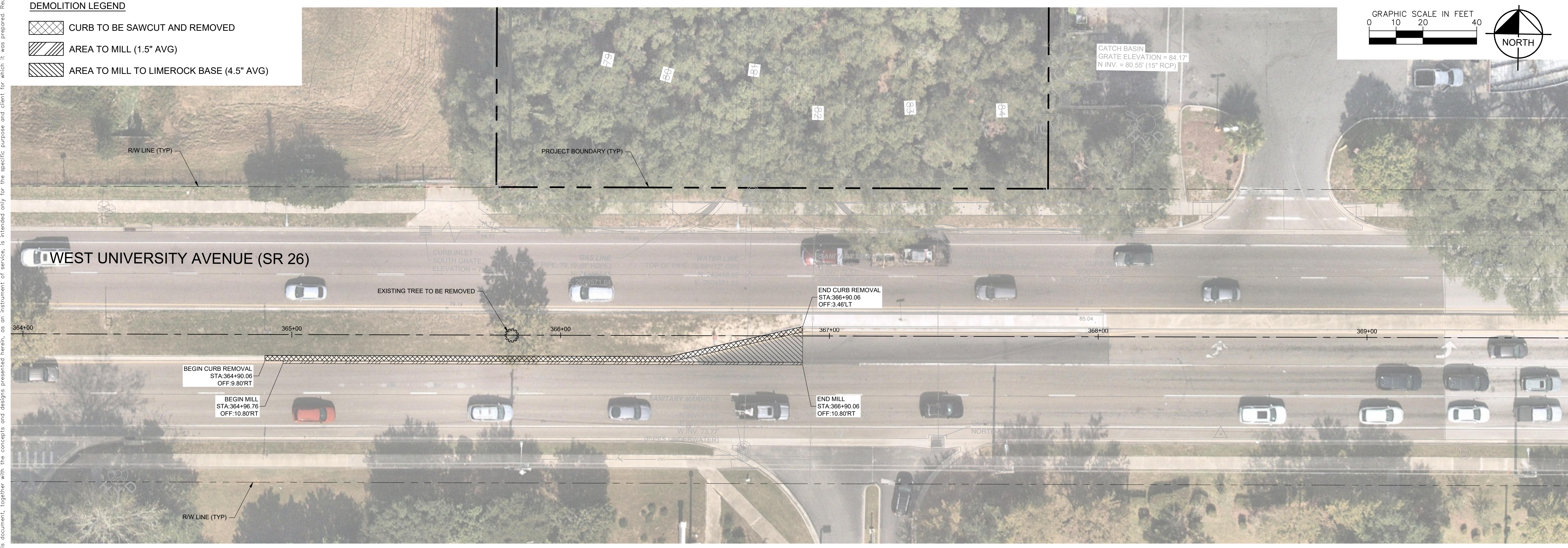
Kimley»Horn		LICENSED PROFESSIONAL DAVID C. SOWELL FLORIDA LICENSE NUMBER 68551	
KHA PROJECT 142425000	DATE DECEMBER 2023	SCALE AS SHOWN	DRAWN BY KHA
SR 26 DRIVEWAY CONNECTION PLAN		CHECKED BY: KHA DATE:	
GAINESVILLE COTTAGES TND		PREPARED FOR SANDS COMPANIES, INC. ALACHUA COUNTY FLORIDA	
SHEET NUMBER C9.00		REVISIONS No. DATE BY	

K:\01_Civil\14220000-Gainesville Cottages TND\Drawings\SR 26 - EXISTING CONDITIONS & DEMOLITION PLANS - Dec 11, 2023 - robert.holmes@kimley-horn.com
 PROJECT: 14220000 - Gainesville Cottages TND - SR 26 - EXISTING CONDITIONS & DEMOLITION PLANS - Dec 11, 2023 - robert.holmes@kimley-horn.com
 DRAWN BY: KHA
 CHECKED BY: KHA
 DATE: 12/11/2023
 SCALE: AS SHOWN
 PROJECT NO.: 14220000
 SHEET NO.: C9.30
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- EXISTING CONDITION NOTES**
1. THIS PROJECT FALLS WITHIN THE CONSTRUCTION LIMITS OF RESURFACING PROJECT FIN:207668-3 TO BE LET 12/04/2024.
 2. SURVEY WAS PERFORMED PRIOR TO EXISTING TURN LANE EXTENSION.



- DEMOLITION LEGEND**
- CURB TO BE SAWCUT AND REMOVED
 - AREA TO MILL (1.5" AVG)
 - AREA TO MILL TO LIMEROCK BASE (4.5" AVG)



No.	REVISIONS	DATE	BY

Kimley»Horn
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 665531

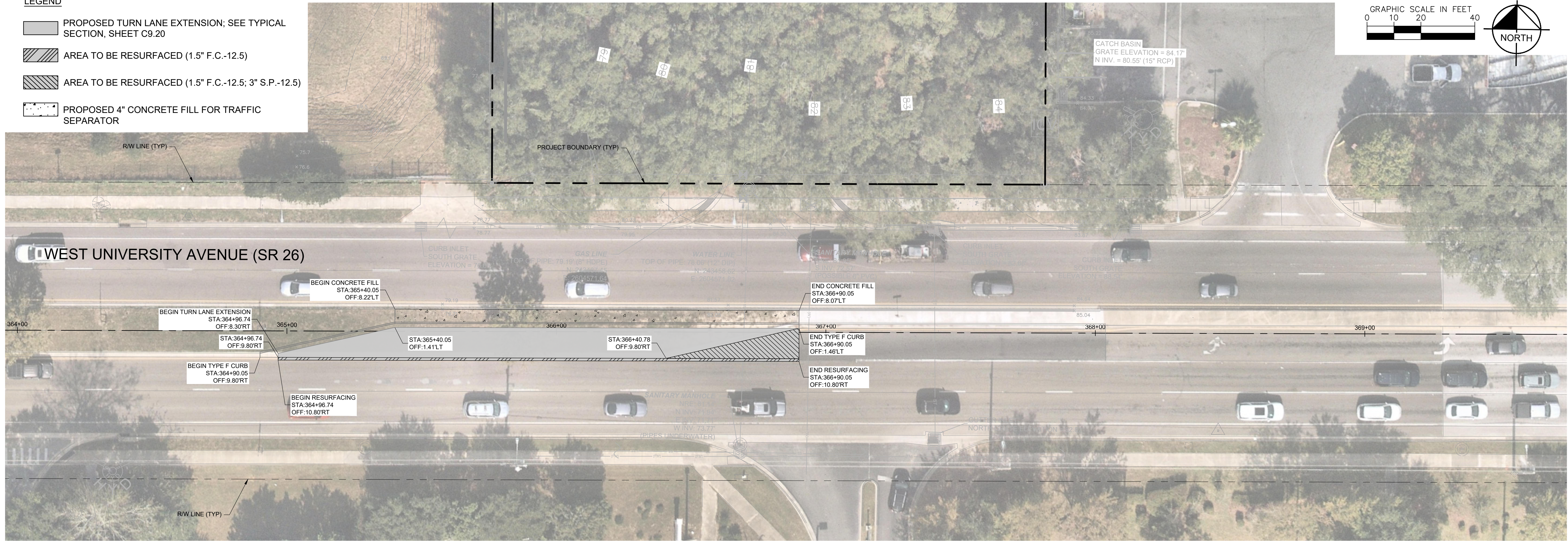
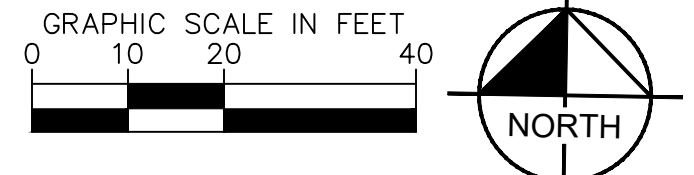
**SR 26 - EXISTING
 CONDITIONS &
 DEMOLITION PLANS**

**GAINESVILLE COTTAGES
 TND**
 PREPARED FOR
SANDS COMPANIES, INC.
 ALACHUA COUNTY FLORIDA

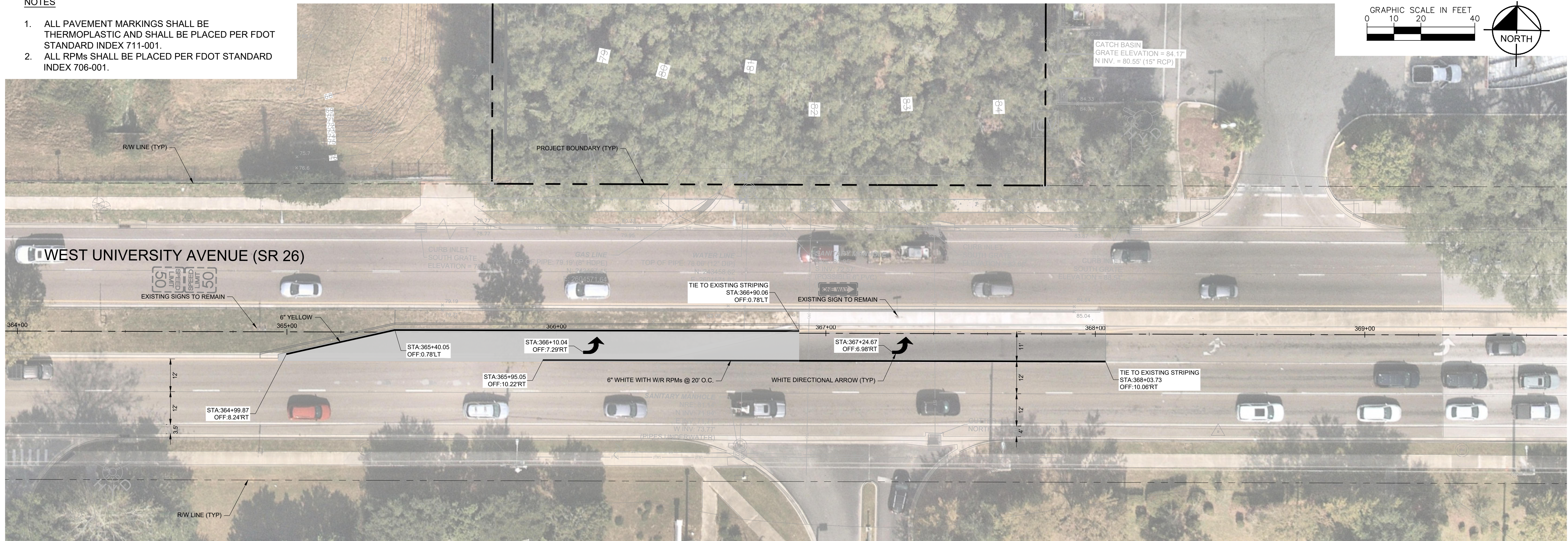
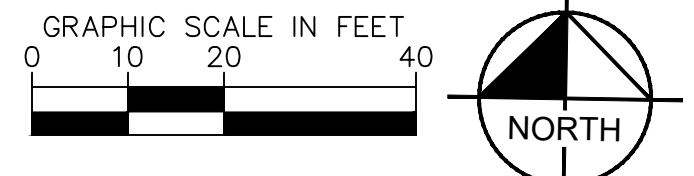
SHEET NUMBER
C9.30

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- LEGEND**
- PROPOSED TURN LANE EXTENSION; SEE TYPICAL SECTION, SHEET C9.20
 - AREA TO BE RESURFACED (1.5" F.C.-12.5)
 - AREA TO BE RESURFACED (1.5" F.C.-12.5; 3" S.P.-12.5)
 - PROPOSED 4" CONCRETE FILL FOR TRAFFIC SEPARATOR



- NOTES**
1. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC AND SHALL BE PLACED PER FDOT STANDARD INDEX 711-001.
 2. ALL RPMs SHALL BE PLACED PER FDOT STANDARD INDEX 706-001.



No.	REVISIONS	DATE	BY

Kimley»Horn

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 WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL
 DAVID C. SOWELL
 FLORIDA LICENSE NUMBER
 66551

KHA PROJECT
 142425000
 DATE
 DECEMBER 2023
 SCALE
 AS SHOWN
 DESIGNED BY
 KHA
 DRAWN BY
 KHA
 CHECKED BY
 KHA

**SR 26 - IMPROVEMENT
 PLANS & SIGNING AND
 STRIPING PLANS**

**GAINESVILLE COTTAGES
 TND
 PREPARED FOR
 SANDS COMPANIES, INC.**
 ALACHUA COUNTY FLORIDA

SHEET NUMBER
C9.40

K:\DOT_CAD\142420000-Gainesville Cottages\CAD\PlanSheets\Turn Lane Plans\GENERAL ROADWAY NOTES.dwg, Layout: C10.10 CR 241 (NW 143RD ST) ROADWAY NOTES Dec 21, 2023 delaney.mackinnon
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GENERAL CONSTRUCTION NOTES:

1. SEE TOPOGRAPHIC SURVEY DATED 09/23/2022 PREPARED BY CHW FOR SURVEY INFORMATION AND NOTES.
2. ALL STATIONS AND OFFSETS ARE REFERENCED TO CONSTRUCTION BASELINE.
3. STAGING AND MATERIAL STORAGE SHALL NOT BE CONDUCTED ON ABUTTING PRIVATE PROPERTY WITHOUT WRITTEN APPROVAL FROM THE OWNER.
4. THE CONTRACTOR IS TO MAINTAIN AND KEEP STREET NAME IDENTIFICATION SIGNS VISIBLE DURING CONSTRUCTION OPERATIONS, IN ORDER TO FACILITATE EMERGENCY VEHICLE TRAFFIC. PLACEMENT OF BUSINESS ENTRANCE SIGNS AND CHANNELIZING DEVICES ARE TO BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD PLANS FOR ROADWAY AND BRIDGE CONSTRUCTION (INDEX 102 SERIES AS APPLICABLE).
5. THE CONTRACTOR SHALL PROVIDE ACCESS TO ALL RESIDENCES AND BUSINESSES DURING THE ENTIRE CONSTRUCTION PERIOD.
6. ALL CONSTRUCTION SHALL BE COMPLETED IN ACCORDANCE WITH THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND CONTRACT DOCUMENTS.
7. CONTRACTOR IS RESPONSIBLE TO VERIFY EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION. IF A DISCREPANCY SHOULD ARISE, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE PROJECT ENGINEER IN WRITING FOR PROPOSED RESOLUTION OR CLARIFICATION.
8. IF A SINKHOLE SHOULD FORM ON THE SITE, THE PROCEDURES OUTLINED BY THE GOVERNING WATER MANAGEMENT DISTRICT SHALL BE FOLLOWED. BOTH THE PROJECT ENGINEER AND THE WATER MANAGEMENT DISTRICT SHALL BE NOTIFIED.
9. JOB SAFETY SHALL BE IMPLEMENTED AT ALL TIMES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE FAMILIAR WITH OSHA STANDARDS AND TO ABIDE BY THEM AS WELL AS ANY OTHER LOCAL, STATE, AND FEDERAL REGULATIONS.
10. DAMAGE TO UTILITIES, STRUCTURES OR PROPERTY ON OR ADJACENT TO THE PROJECT SITE CAUSED BY CONSTRUCTION ACTIVITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
11. THE CONTRACTOR SHALL NOTIFY THE ALACHUA COUNTY PUBLIC WORKS DEPARTMENT A MINIMUM OF 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.
12. THESE PLANS REFLECT CONDITIONS KNOWN DURING PLAN DEVELOPMENT. IN THE EVENT THAT ACTUAL CONDITIONS PREVENT THE APPLICATION OF THESE PLANS AND SPECIFICATIONS IN THE CONSTRUCTION OF THE WORK, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ENGINEER IN CHARGE PRIOR TO FURTHER CONSTRUCTION ACTIVITY.
13. THE CONTRACTOR AND SUBCONTRACTORS ARE HEREBY REQUIRED TO PROMPTLY NOTIFY THE PROJECT ENGINEER OF ANY DISCREPANCIES OR CONFLICTS FOUND IN THE PLANS OR SPECIFICATIONS, SO THEY ARE CLARIFIED BY THE ENGINEER.
14. NO CHANGES TO THE WORK AS SHOWN ON THESE PLANS SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE PROJECT ENGINEER. CONTRACTOR SHALL CHECK ACTUAL SITE CONDITIONS PRIOR TO CONSTRUCTION. ANY NEED FOR CLARIFICATION OF PROPOSED IMPROVEMENTS OR FOR RESOLUTION OF DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE PROJECT ENGINEER.
15. THE PROJECT ENGINEER OR REPRESENTATIVE SHALL HAVE ACCESS TO THE WORK SITE AT ALL TIMES.
16. ALL ASTM DESIGNATIONS SHALL BE AS AMENDED TO DATE UNLESS NOTED OTHERWISE.
17. ADDITIONAL TEST BORINGS AND EXPLORATORY INVESTIGATIONS MAY BE MADE BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
18. ALL EXISTING STORMWATER DRAINAGE PATTERNS AND CHANNELS OUTSIDE THE CONSTRUCTION AREAS SHOWN ON THESE PLANS ARE TO BE MAINTAINED. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF THE WORK APPEARS TO INTERRUPT AN EXISTING STORMWATER DRAINAGE PATTERN. THE CONTRACTOR SHALL MAINTAIN A CLEAR PATH FOR ALL SURFACE WATER DRAINAGE STRUCTURES AND DITCHES DURING ALL PHASES OF CONSTRUCTION SUCH THAT IMPACT TO CONSTRUCTION AND/OR SURROUNDING FACILITIES IS MINIMIZED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY EROSION, SEDIMENT TRANSPORT, DISTURBED FOUNDATIONS, IMPACT TO STRUCTURES AND ANY OTHER DAMAGE CAUSED DURING CONSTRUCTION.
19. UNSUITABLE MATERIAL FROM WITHIN THE PROJECT SHALL BE PROPERLY DISPOSED OF OFF SITE BY THE CONTRACTOR. SUITABLE MATERIAL FROM WITHIN THE PROJECT SHALL BE USED FOR EMBANKMENT AS NEEDED TO COMPLETE THE PROJECT. REFER TO FDOT STANDARD INDEX 120-001.
20. BURNING WITHIN THE LIMITS OF THE PROPOSED PROJECT SHALL NOT BE ALLOWED UNLESS OTHERWISE SPECIFIED BY THE PROJECT ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE APPROPRIATE AGENCY AND OBTAINING A BURNING PERMIT.
21. ANY SURVEY MARKER, INCLUDING BUT NOT LIMITED TO SECTION MARKERS, BENCH MARKS, LOT CORNERS, ETC. WHICH ARE DISTURBED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE PRIOR TO FINAL PAYMENT. RESETTING OF MONUMENTS AND MARKERS SHALL BE PERFORMED BY A PROFESSIONAL LAND SURVEYOR LICENSED TO PRACTICE IN THE STATE OF FLORIDA.
22. ALL DETAILS, SECTIONS AND NOTES SHOWN ON DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS ELSEWHERE UNLESS NOTED OR SHOWN OTHERWISE.
23. UPON COMPLETION OF STRUCTURAL COURSE, PAVEMENT MARKINGS SHALL BE PAINTED AND RPMS PLACED PRIOR TO OPENING TRAFFIC. UPON COMPLETION OF FRICTION COURSE, PAVEMENT MARKINGS SHALL BE PAINTED AND RPMS PLACED PRIOR TO OPENING FOR TRAFFIC. 30 DAYS AFTER COMPLETION OF FRICTION COURSE, PLACE LEAD-FREE THERMOPLASTIC. ALL RPMS SHALL BE PLACED IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD PLANS FOR ROADWAY AND BRIDGE CONSTRUCTION INDEX 706-001.
24. ALL EXISTING CULVERTS ARE TO REMAIN UNLESS SPECIFIED OTHERWISE.
25. ALL PIPING LABELED STORM DRAINAGE PIPE MAY BE REINFORCED CONCRETE PIPE OR SMOOTH INTERIOR POLYPROPYLENE PIPE MEETING THE SPECIFICATIONS. CONTINUOUS RUNS OF PIPE SHALL BE THE SAME MATERIAL UNLESS APPROVED BY THE PROJECT MANAGER. MITERED END SECTIONS FOR POLYPROPYLENE PIPE SHALL BE CONSTRUCTED PER ACPW DETAILS.
26. EXISTING ASPHALT CONDITIONS MAY BE SUCH THAT MILLING OPERATIONS MAY REMOVE LARGER SECTIONS OF ASPHALT THAN ANTICIPATED AND TO DEPTHS GREATER THAN CALLED FOR IN THE PLANS. IF THIS OCCURS, CONTRACTOR IS TO IMMEDIATELY NOTIFY THE COUNTY'S INSPECTION STAFF AND SEEK DIRECTION ON HOW TO PROCEED.
27. CONTRACTOR SHALL VERIFY EXISTING GRADES AT TIE-IN POINTS AND PROVIDE DISCREPANCIES BETWEEN THE PLANS AND ACTUAL FIELD CONDITIONS TO THE ENGINEER PRIOR TO BEGINNING WORK IN THIS AREA.
28. BEFORE PLACING PAVEMENT, CONTRACTOR SHALL VERIFY THAT SUITABLE ACCESSIBLE PEDESTRIAN ROUTES EXIST ALONG SIDEWALKS, CROSSWALKS, AND ACCESSIBLE ROUTES. IN NO CASE SHALL AN ACCESSIBLE RAMP SLOPE EXCEED 1 VERTICAL TO 12 HORIZONTAL. IN NO CASE SHALL SIDEWALK OR CROSSWALK SLOPE EXCEED 2.0 PERCENT. IN NO CASE SHALL LONGITUDINAL SIDEWALK SLOPE EXCEED 5.0 PERCENT UNLESS NOTED IN THE PLANS.
29. CONTRACTOR SHALL TAKE FIELD SLOPE MEASUREMENT ON FINISHED SUBGRADE AND FORM BOARDS PRIOR TO PLACING PAVEMENT TO VERIFY THAT ADA SLOPE REQUIREMENTS ARE PROVIDED. CONTRACTOR SHALL CONTACT ENGINEER PRIOR TO PAVING IF ANY EXCESSIVE SLOPES ARE ENCOUNTERED. NO CONTRACTOR CHANGE ORDERS WILL BE ACCEPTED FOR ADA SLOPE COMPLIANCE ISSUES.

EROSION CONTROL NOTES:


1. ALL EROSION AND SEDIMENT CONTROL DEVICES NECESSARY FOR CONSTRUCTION SHALL CONFORM TO THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD PLANS FOR ROADWAY AND BRIDGE CONSTRUCTION, SUWANNEE RIVER WATER MANAGEMENT DISTRICT (SRWMD) RULES, AND FLORIDA BEST MANAGEMENT PRACTICES.
2. THE CONTRACTOR SHALL PREVENT THE DISCHARGE OF SEDIMENT INTO DRAINAGE DITCHES OR OFFSITE DUE TO CONSTRUCTION OPERATIONS. APPROVED EROSION CONTROL DEVICES SHALL BE INSTALLED TO PREVENT DISCHARGE OF SEDIMENT INTO A DRY OR WET WATERCOURSE. EROSION CONTROL SHALL CONSIST OF SILT FENCE, OR OTHER EROSION CONTROL METHODS APPROVED BY THE PROJECT ENGINEER. ALL NEW AND EXISTING DRAIN PIPES AND STRUCTURES SHALL BE DESIGNED PRIOR TO FINAL PAYMENT.
3. CONTRACTOR SHALL CLEAR AND GRUB CONSTRUCTION AREAS BEFORE FILL IS PLACED. ALL AREAS TO RECEIVE FILL SHALL BE STRIPPED OF ALL VEGETATION AND TOPSOIL AND PROOF ROLLED PRIOR TO PLACING CLEAN FILL.
4. ALL SLOPES STEEPER THAN 3:1 SHALL HAVE PINNED OR PEGGED ARGENTINE BAHIA SOD. PROVIDE EROSION CONTROL BLANKET FOR ALL SLOPES 2:1 HORIZONTAL TO VERTICAL OR STEEPER.
5. ALL AREAS INSIDE AND OUTSIDE THE PROJECT LIMITS, WHICH ARE DISTURBED AS A RESULT OF THE PROJECT CONSTRUCTION, SHALL BE RESTORED TO ORIGINAL OR DESIGN GRADE AS APPLICABLE, AND SODDED WITH ARGENTINE BAHIA AT THE CONTRACTOR'S EXPENSE, UNLESS OTHERWISE APPROVED BY THE PROJECT ENGINEER. ALL DISTURBED AREAS WITHIN THE COUNTY RIGHT OF WAY SHALL BE REGRADED AND SODDED WITH ARGENTINE BAHIA SOD.
6. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER COMPLETION OF CONSTRUCTION AND ONLY WHEN AREAS HAVE BEEN STABILIZED.
7. 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.
8. CONTRACTOR SHALL INSPECT EROSION CONTROL MEASURES DAILY. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
9. SEDIMENT DEPOSITS SHALL BE REMOVED AFTER EACH RAINFALL. DEPOSITS SHALL BE REMOVED WHEN THE LEVEL OF DEPOSITIONS REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
10. SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE BARRIER IS NO LONGER REQUIRED, SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SODDED.
11. SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF EXPECTED USABLE LIFE AND THE BARRIERS ARE STILL NECESSARY THE FABRIC SHALL BE REPLACED IMMEDIATELY.
12. THESE NOTES INDICATE 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.
13. THE CONTRACTOR SHALL SUBMIT A DETAILED STORMWATER POLLUTION PREVENTION PLAN TO THE COUNTY FOR APPROVAL, PRIOR TO CONSTRUCTION ACTIVITIES.
14. THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING THE NOTICE OF INTENT (NOI) TO THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION.

UTILITY NOTES:

1. UTILITIES SHOWN HEREON ARE BASED ON A SURVEY DATED 09/23/2022 BY CHW. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL EXISTING UTILITIES SHOWN OR NOT SHOWN THROUGH DIRECT CONTACT WITH THE APPROPRIATE UTILITY COMPANY IN ACCORDANCE WITH THE ALACHUA COUNTY LAND DEVELOPMENT CODE PRIOR TO OR IN CONJUNCTION WITH THE PROJECT.
2. ALL UNDERGROUND UTILITIES CONFLICTING WITH CONSTRUCTION SHALL BE RELOCATED, UNLESS OTHERWISE APPROVED BY THE PROJECT ENGINEER.
3. CONTRACTOR SHALL HAND EXCAVATE WHEN CONSTRUCTION ACTIVITIES ARE WITHIN 18 INCHES OF EXISTING UTILITIES.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UTILITIES SHOWN OR NOT SHOWN ON THE PLANS AND SHALL MAINTAIN DIRECT CONTACT WITH THE APPROPRIATE UTILITY COMPANIES THROUGHOUT CONSTRUCTION.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO UTILITIES, STRUCTURES AND PROPERTY ON AND ADJACENT TO THE SITE CAUSED BY CONSTRUCTION ACTIVITIES.
6. CONTRACTOR SHALL ADJUST ALL UTILITY LIDS AND COVERS TO FINISHED GRADE AS REQUIRED.
7. THE CONTRACTOR SHALL NOTIFY UTILITY OWNERS THROUGH SUNSHINE STATE ONE CALL OF FLORIDA (1-800-432-4770) AND UTILITY OWNERS LISTED ON THE COVER SHEET IN TWO BUSINESS DAYS (OR 10 DAYS IF DIGGING UNDER WATER) IN ADVANCE OF BEGINNING CONSTRUCTION ON THE JOB SITE.

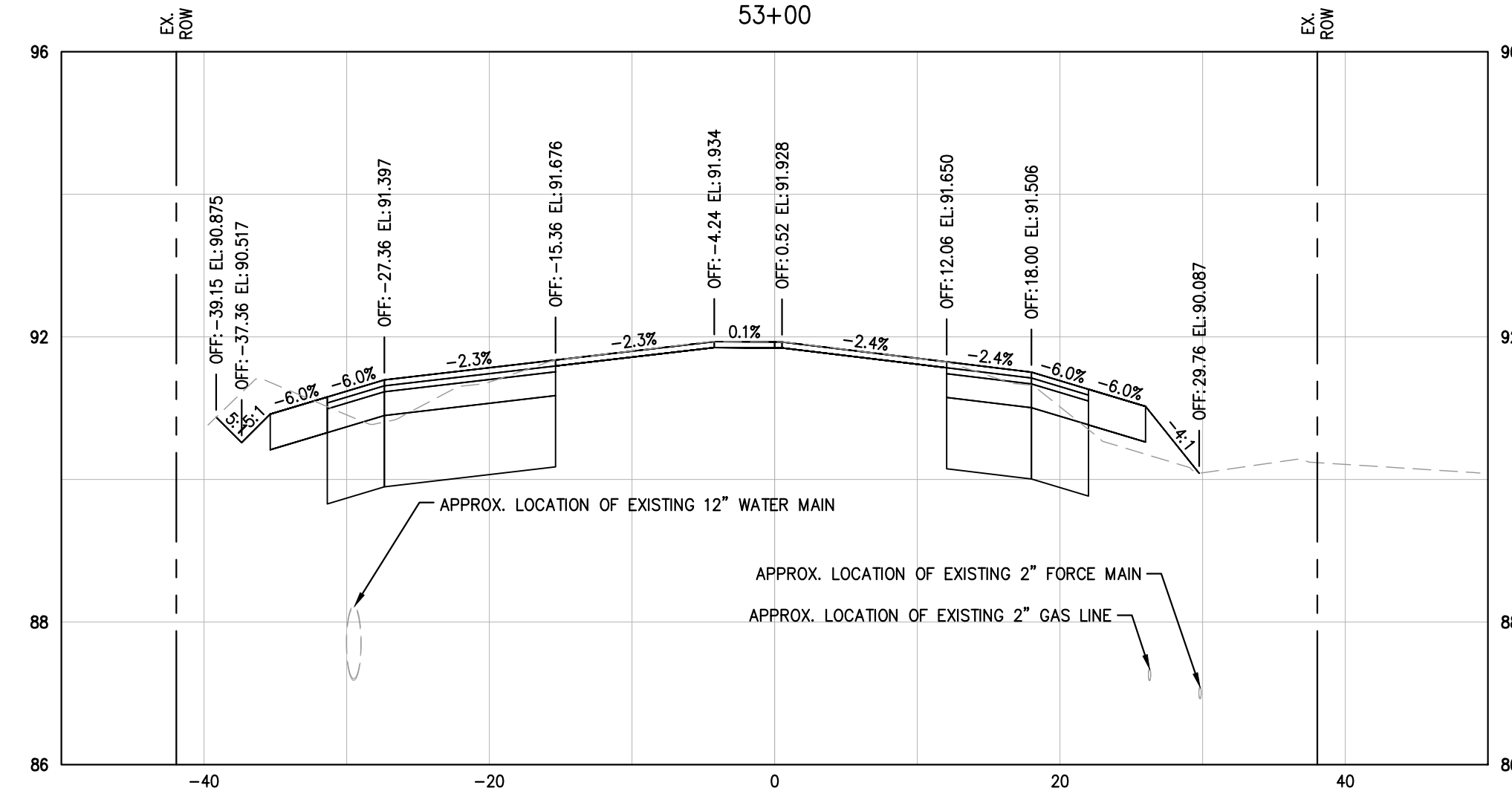
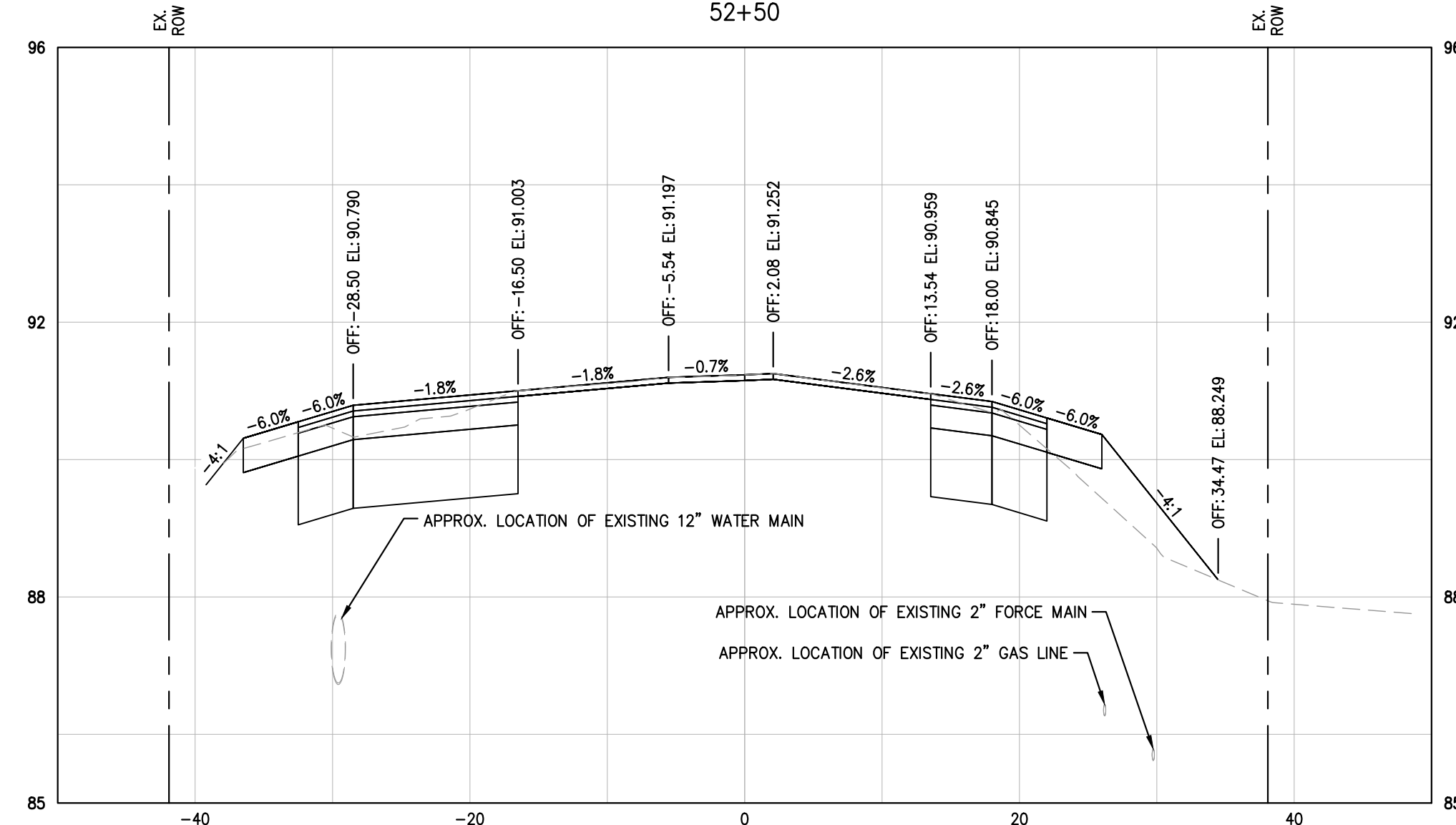
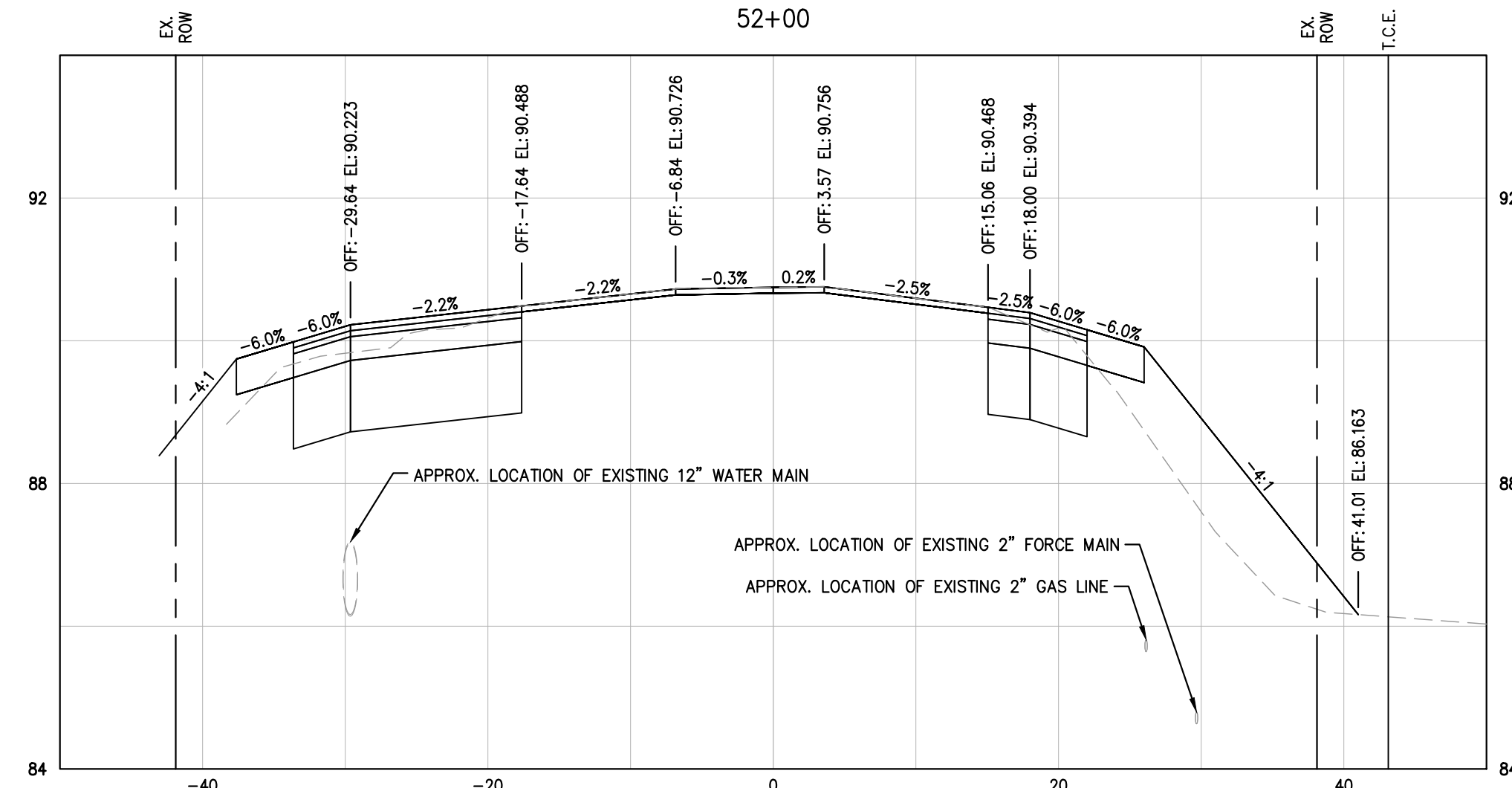
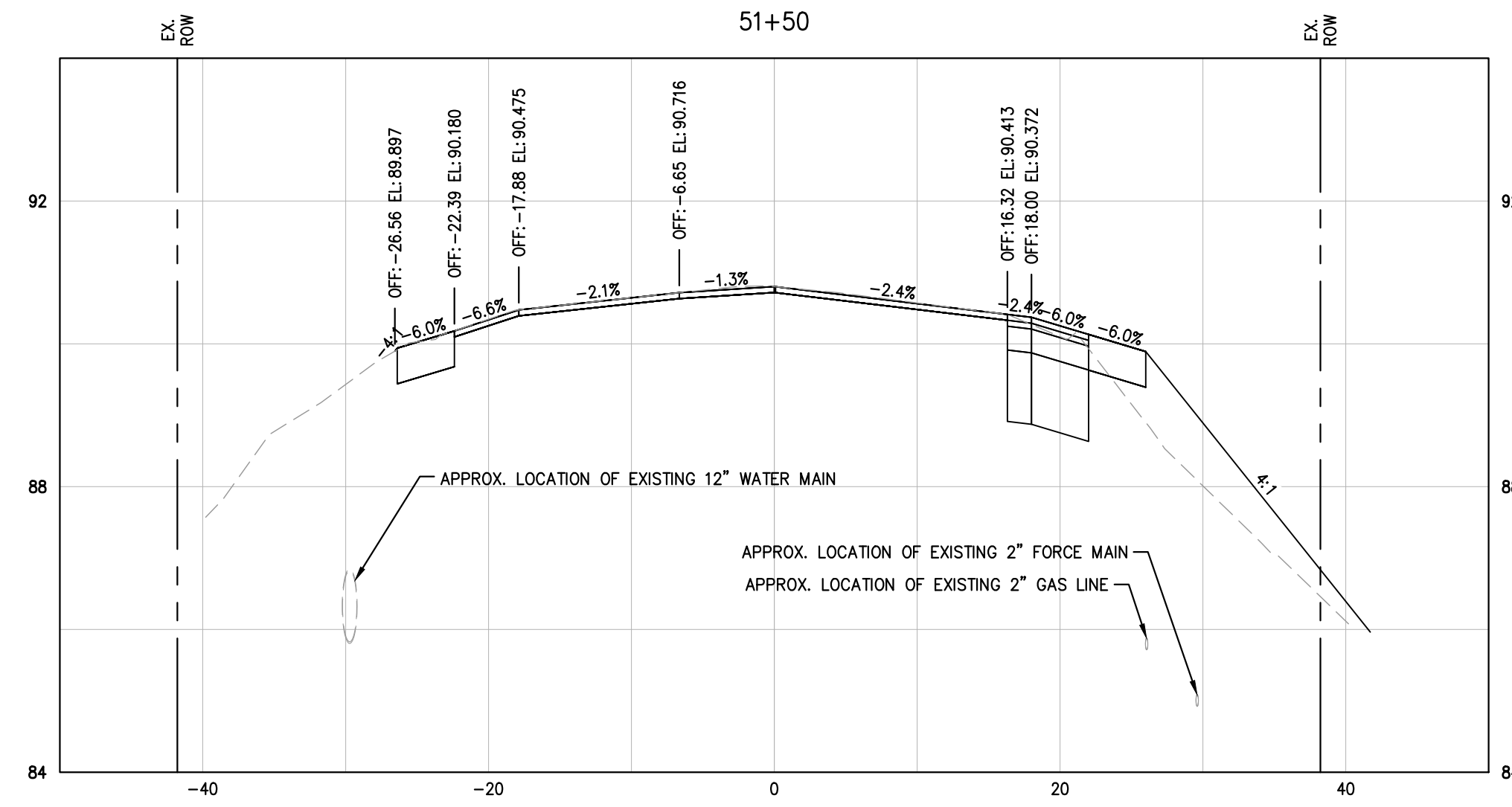
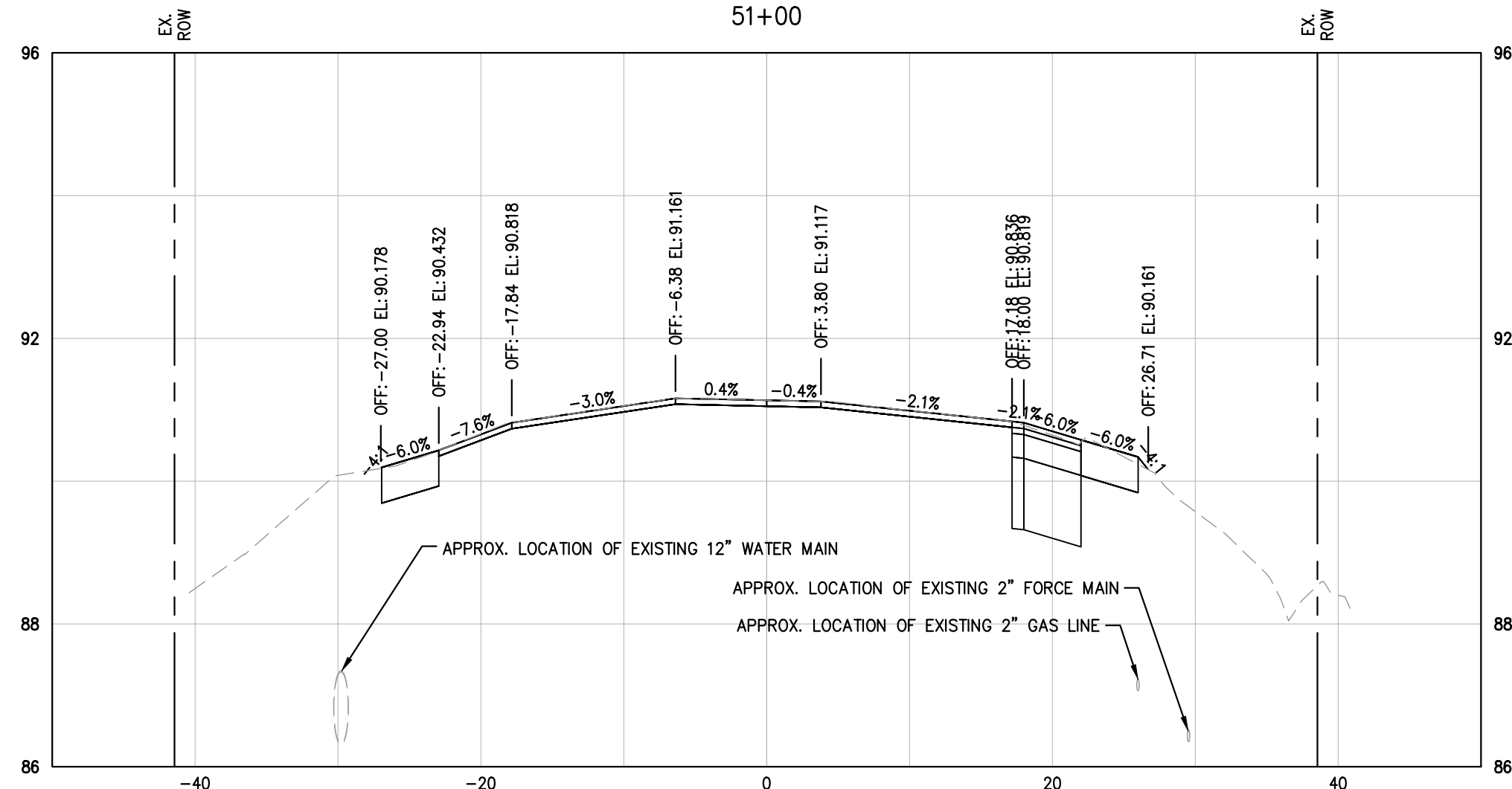
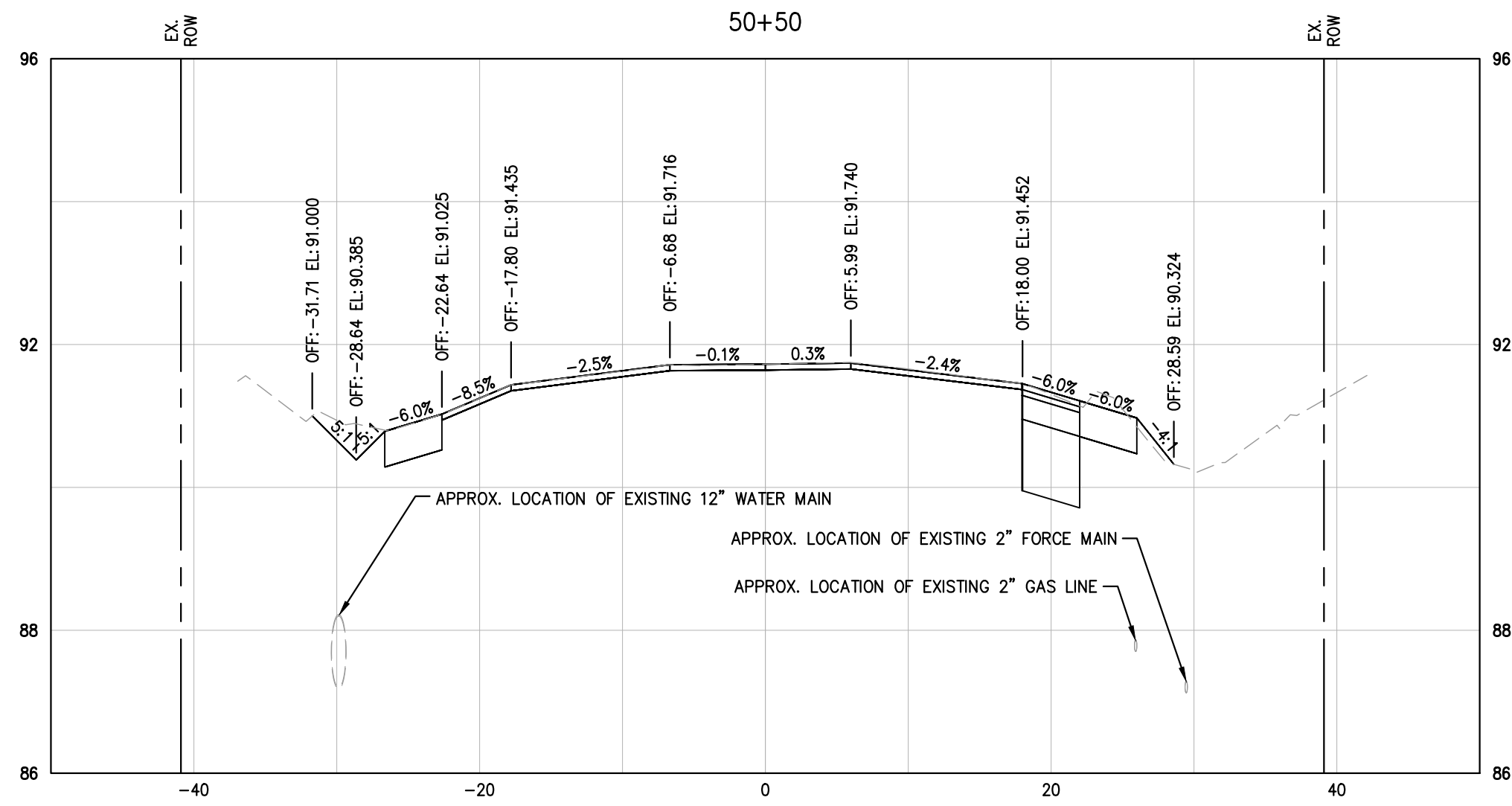
TEMPORARY TRAFFIC CONTROL NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE OF THE TRAVELWAY AT ALL TIMES.
2. PROJECT AREAS THAT ARE NOT ACTIVE CONSTRUCTION AREAS ARE TO BE KEPT FREE OF CONSTRUCTION DEBRIS AND UNNECESSARY OR CONFLICTING TRAFFIC CONTROL DEVICES.
3. ACCESS TO ALL DRIVEWAYS AND SUBDIVISION STREETS SHALL BE PROVIDED AT ALL TIMES, EXCEPT AS OTHERWISE INDICATED IN THESE PLANS.
4. TRAFFIC CONTROL FOR THIS PROJECT SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND THE FDOT STANDARD PLAN INDEX. APPLICABLE FDOT STANDARD PLAN INDEXES INCLUDE, BUT ARE NOT LIMITED TO, 102-600, 102-601, 102-602, 102-603, AND 102-661.
5. THE TRAFFIC AND TRAVEL WAYS SHALL NOT BE ALTERED BY THE CONTRACTOR TO CREATE A WORK ZONE UNTIL ALL LABOR, EQUIPMENT AND MATERIALS ARE AVAILABLE FOR THE CONSTRUCTION IN THAT AREA.
6. THE EXISTING REGULATORY SPEED LIMITS SHALL REMAIN UNCHANGED DURING CONSTRUCTION UNLESS NOTED IN THE PLANS OR APPROVED BY THE COUNTY ENGINEER.
7. IN THE EVENT OF A HURRICANE OR OTHER EVACUATION NEED, THE CONTRACTOR SHALL COORDINATE THE SECURING OF ALL LOOSE MATERIAL, OPEN CLOSED LANES, BACKFILL EXCAVATION, REMOVE OBSTRUCTIONS TO DRAINAGE AND WATER FLOW, AND TAKE OTHER MEASURES AS DIRECTED BY THE ENGINEER NECESSARY TO PROTECT THE PUBLIC.
8. THE CONTRACTOR SHALL REMOVE ANY EXISTING OR TEMPORARY PAVEMENT MARKINGS THAT CONFLICT WITH THE TRAFFIC CONTROL PLANS. WHEN THE CONFLICT NO LONGER EXISTS, THE CONTRACTOR SHALL RESTORE THE PAVEMENT MARKINGS TO THEIR ORIGINAL OR NEW POSITIONS. REMOVAL OF EXISTING AND/OR TEMPORARY PAVEMENT MARKINGS SHALL BE ACCOMPLISHED BY HYDROBLASTING.
9. PLACEMENT OF POST-MOUNTED SIGNS WITHIN THE WORK ZONES SHALL BE IN ACCORDANCE WITH THE FDOT STANDARD PLANS INDEX 102-600.
10. PEDESTRIAN AND TRAFFIC DROP-OFF CONDITIONS SHALL BE MITIGATED PER FDOT STANDARD PLANS INDEX 102-600.
11. VEHICULAR, BICYCLE, PEDESTRIAN AND TRANSIT ROUTES SHALL BE PROVIDED AT ALL TIMES.
12. ANY LANE RESTRICTIONS SHALL BE COORDINATED WITH ALACHUA COUNTY.
13. CONTRACTOR SHALL ACCOUNT FOR OTHER AREAS OF CONSTRUCTION THAT MAY BE NEARBY. CONTRACTOR TO COORDINATE ALL ROADWAY CONSTRUCTION ZONE SIGNAGE FOR CONSISTENCY.
14. ALL TEMPORARY PEDESTRIAN PATHS TO MEET ADA REQUIREMENTS.
15. TRAFFIC SHALL NOT BE PERMITTED ON MILLED SURFACES.

KHA PROJECT 142425000		LICENSED PROFESSIONAL		 © 2023 KIMLEY-HORN AND ASSOCIATES, INC. 800 SW 2ND AVENUE, SUITE 100, GAINESVILLE, FL 32601 PHONE: 352-374-3274 WWW.KIMLEY-HORN.COM REGISTRY NO. 35106	No.	REVISIONS	DATE	BY
DATE DECEMBER 2023	SCALE AS SHOWN	DESIGNED BY KHA	DRAWN BY KHA					
CR 241 (NW 143RD ST) ROADWAY NOTES				GAINESVILLE COTTAGES TND PREPARED FOR SANDS COMPANIES, INC. ALACHUA COUNTY FLORIDA				
SHEET NUMBER C10.10								

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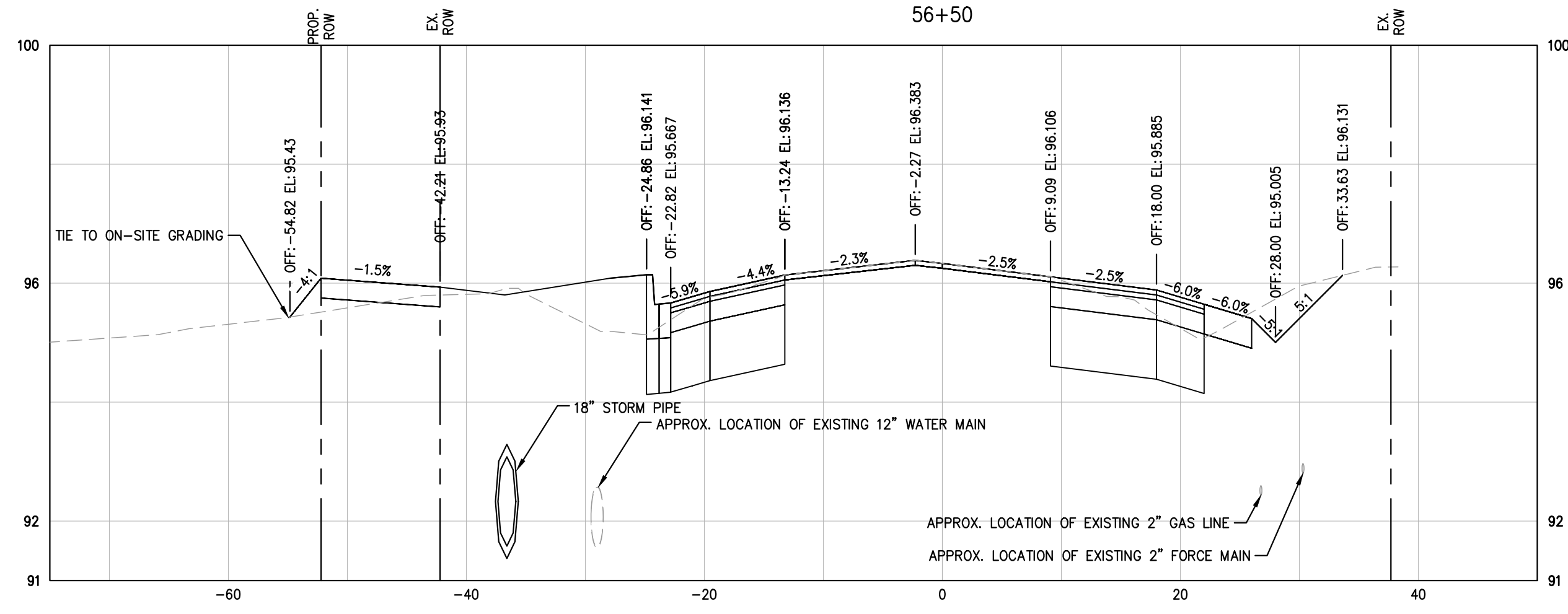
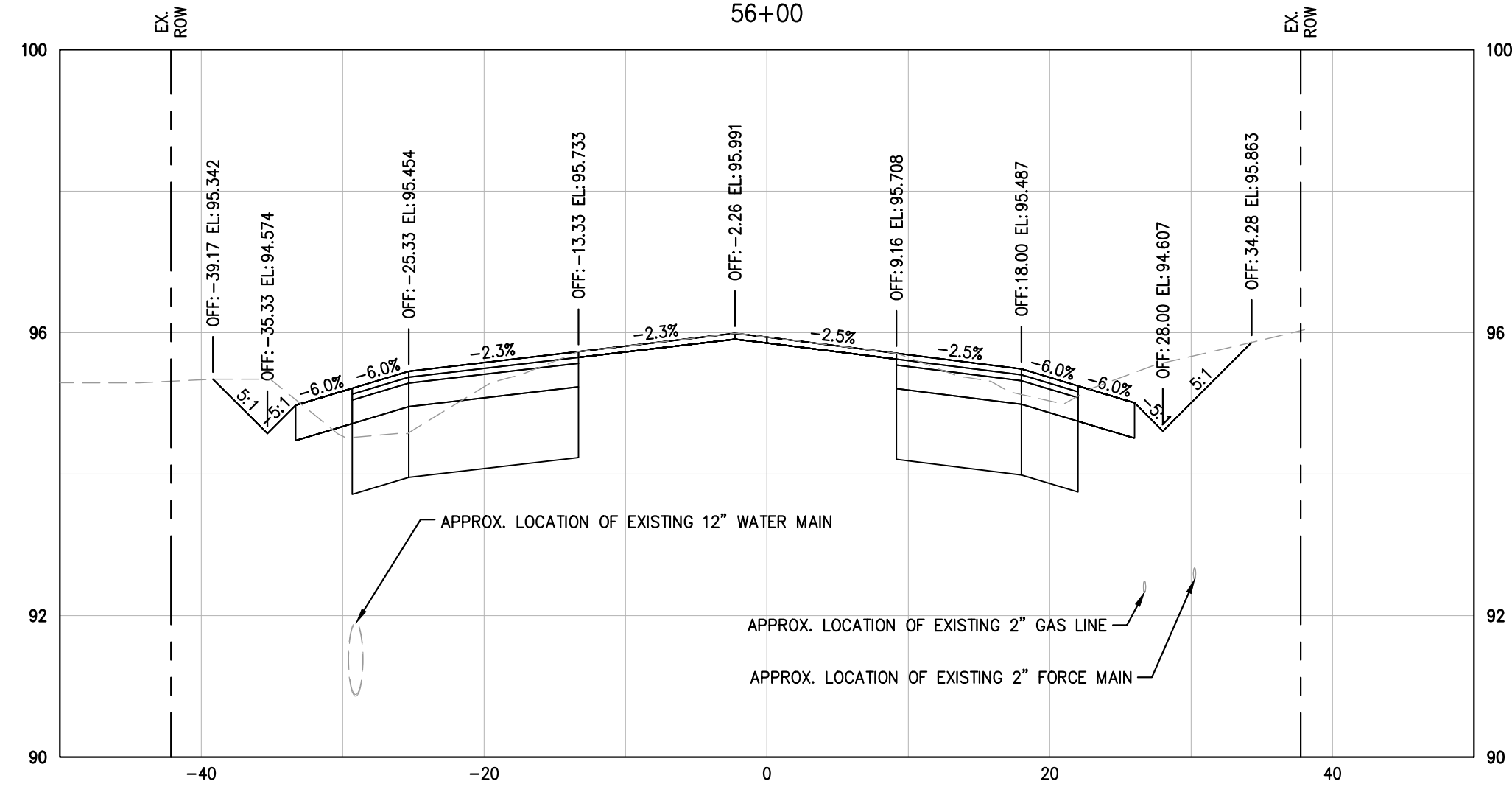
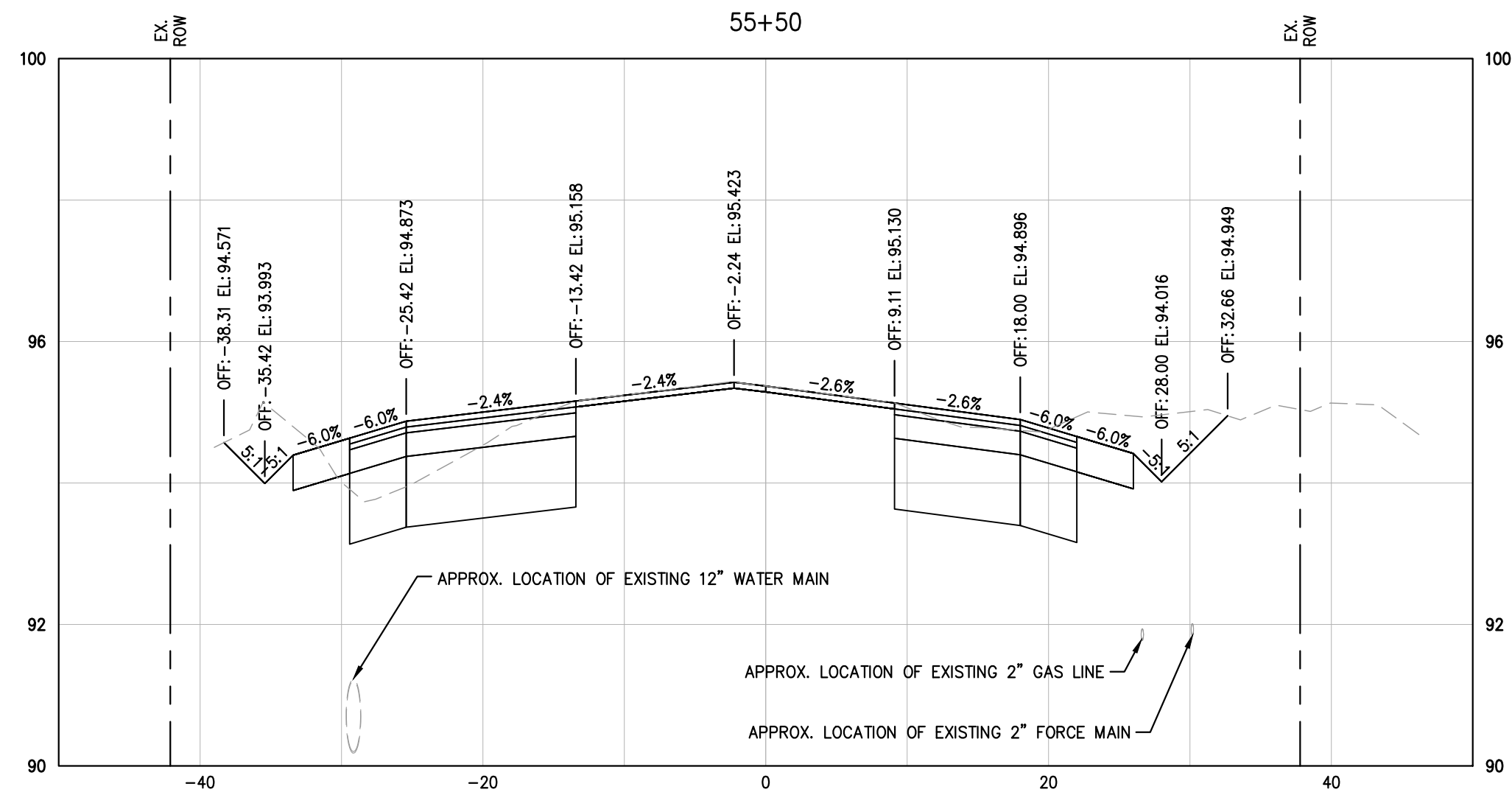
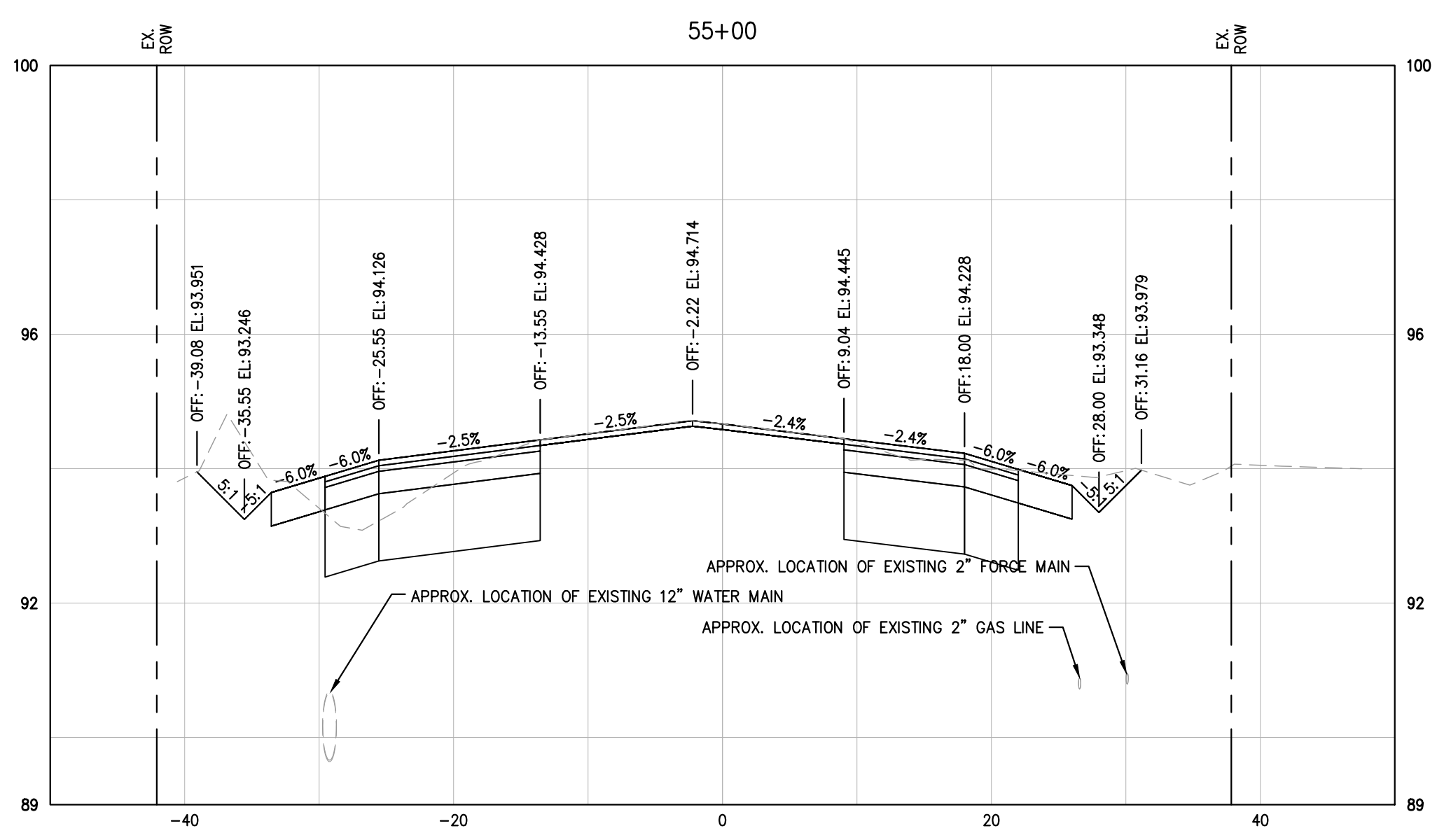
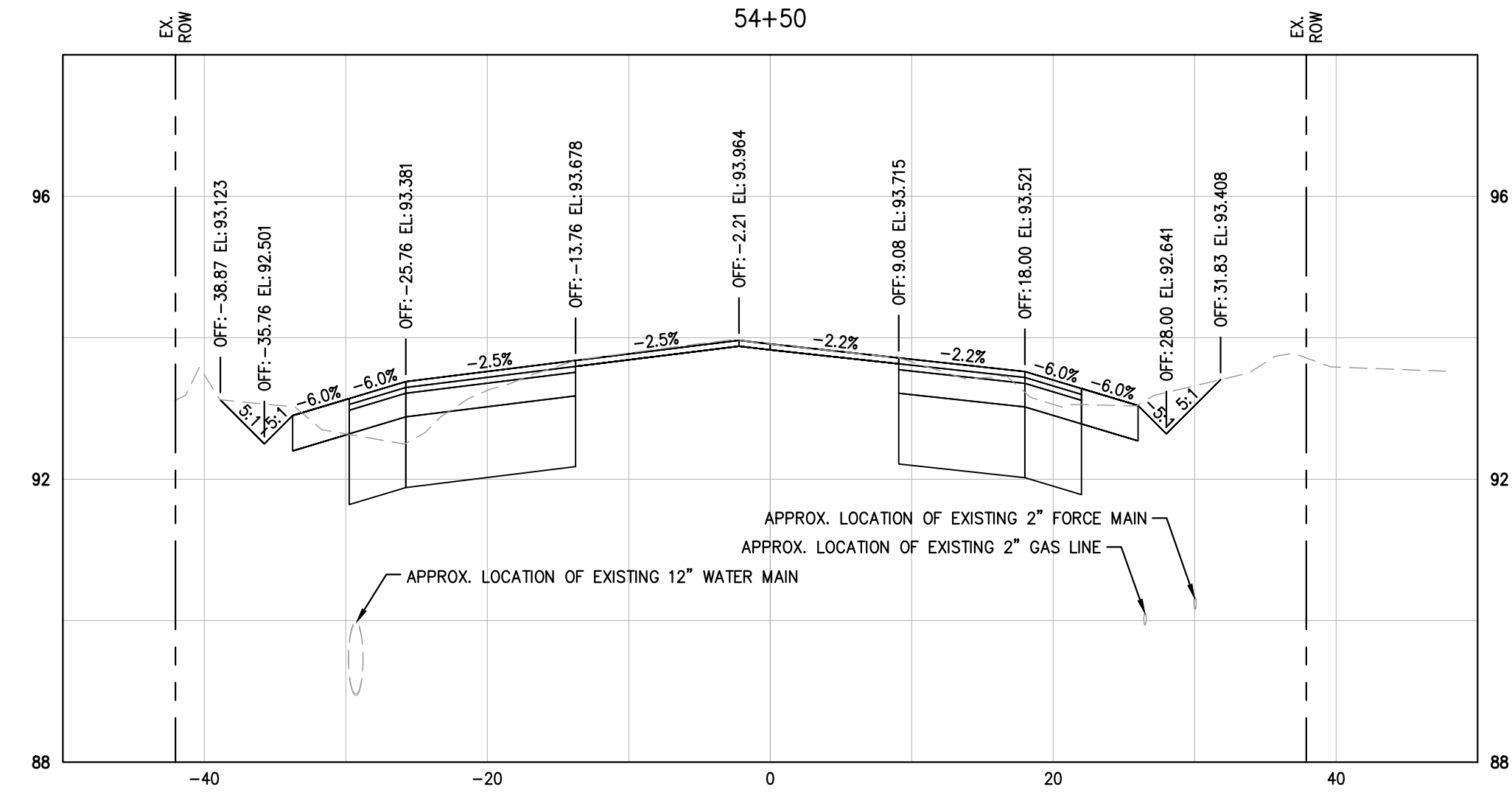
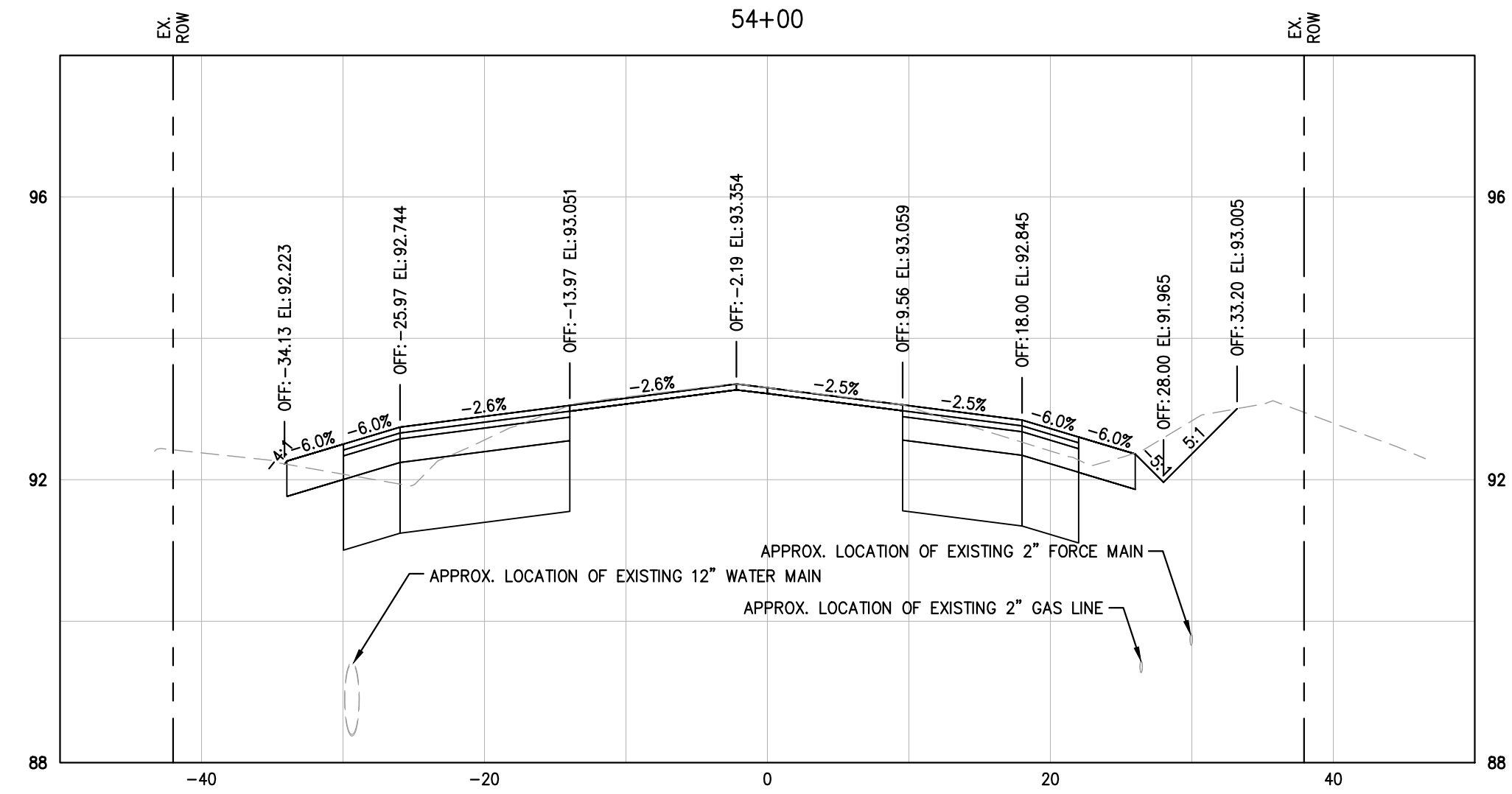
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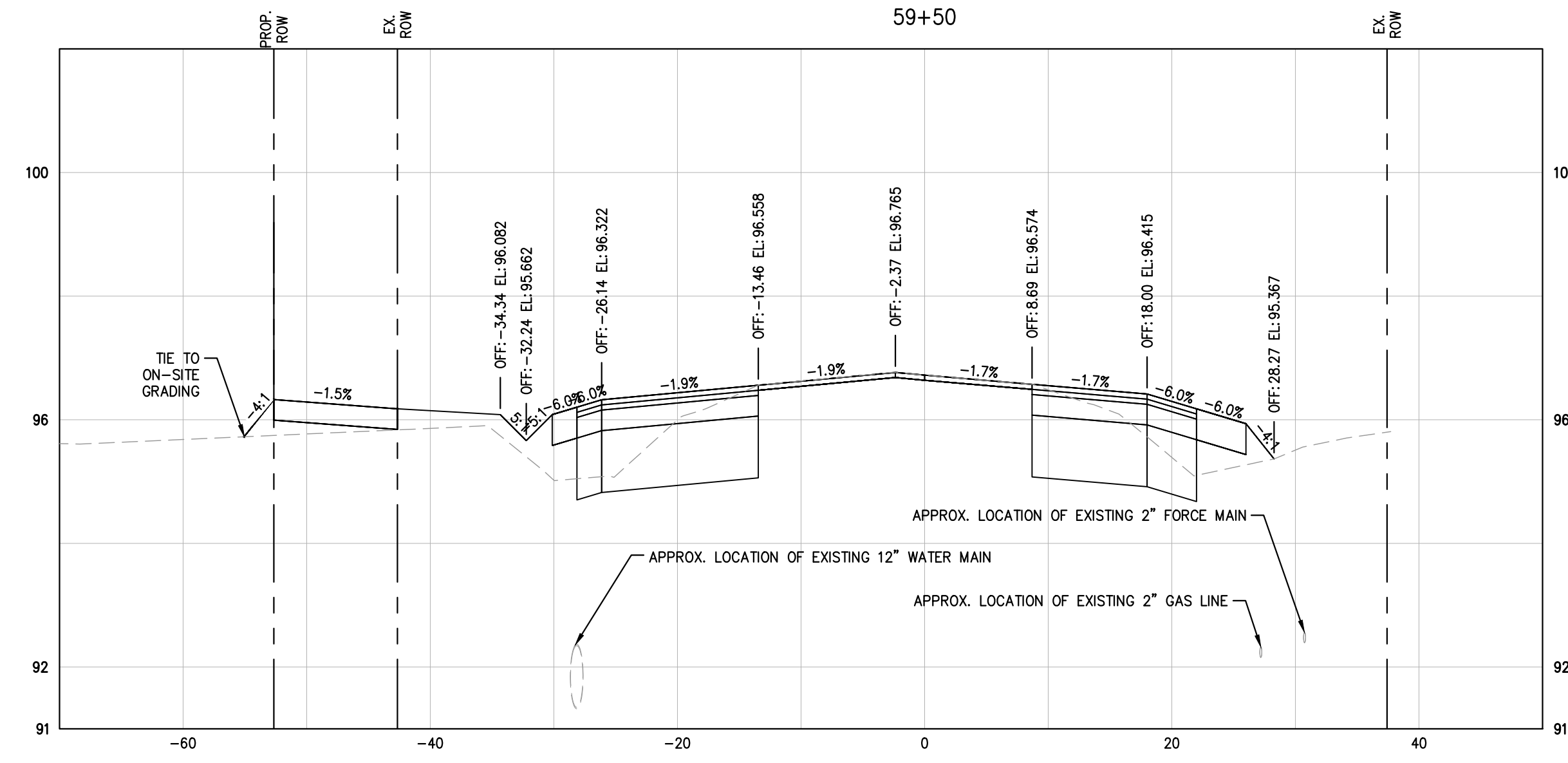
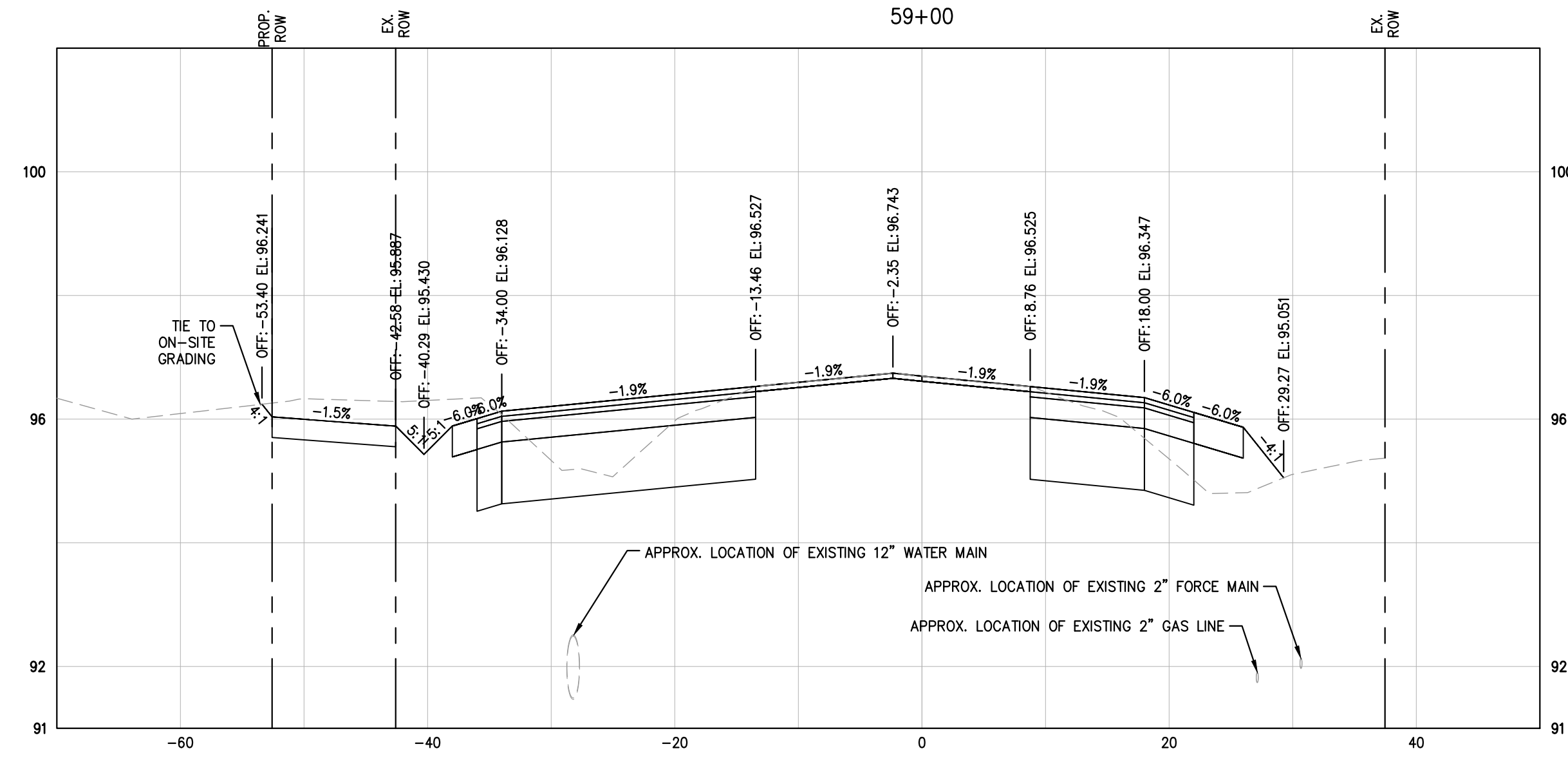
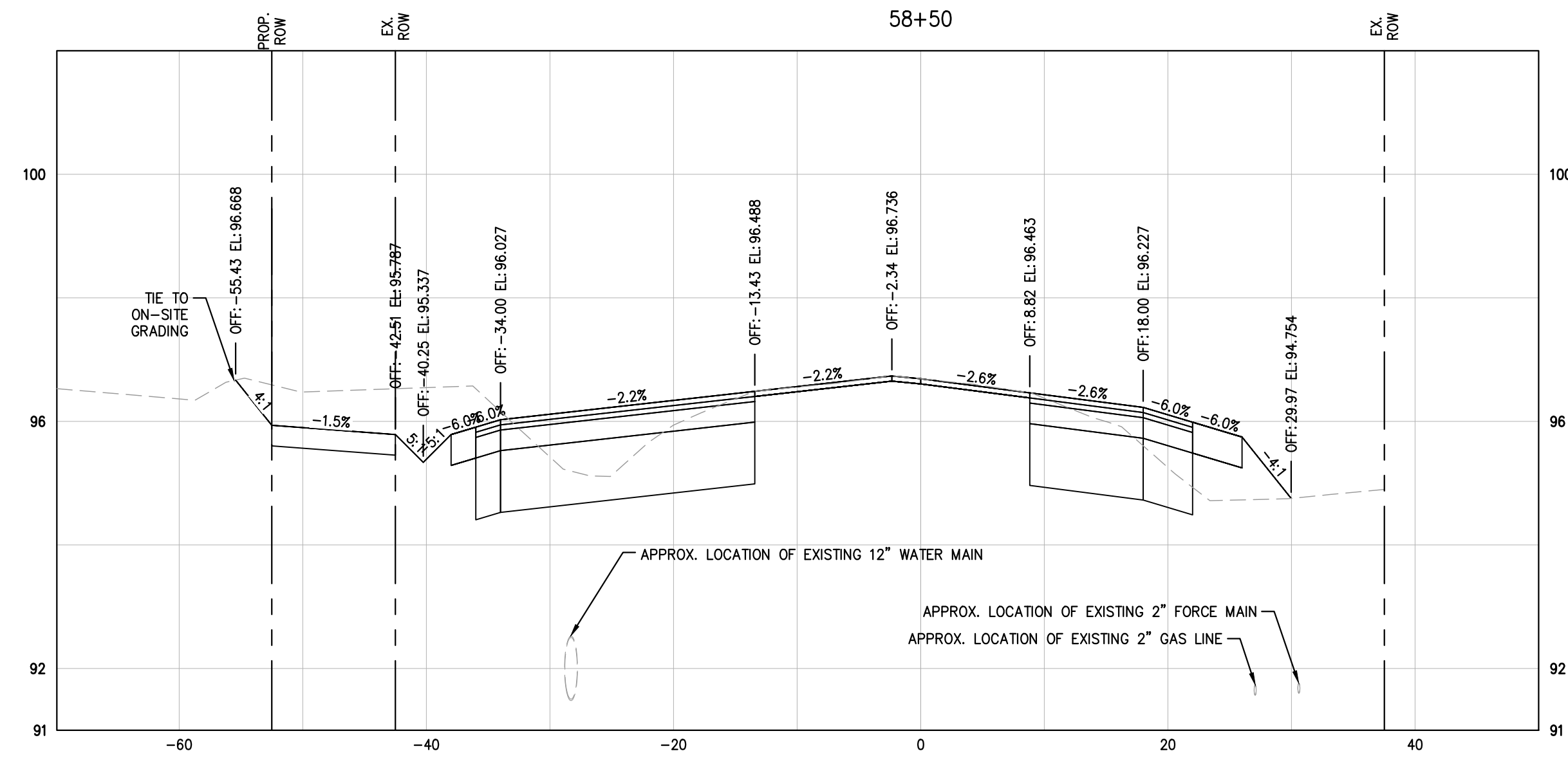
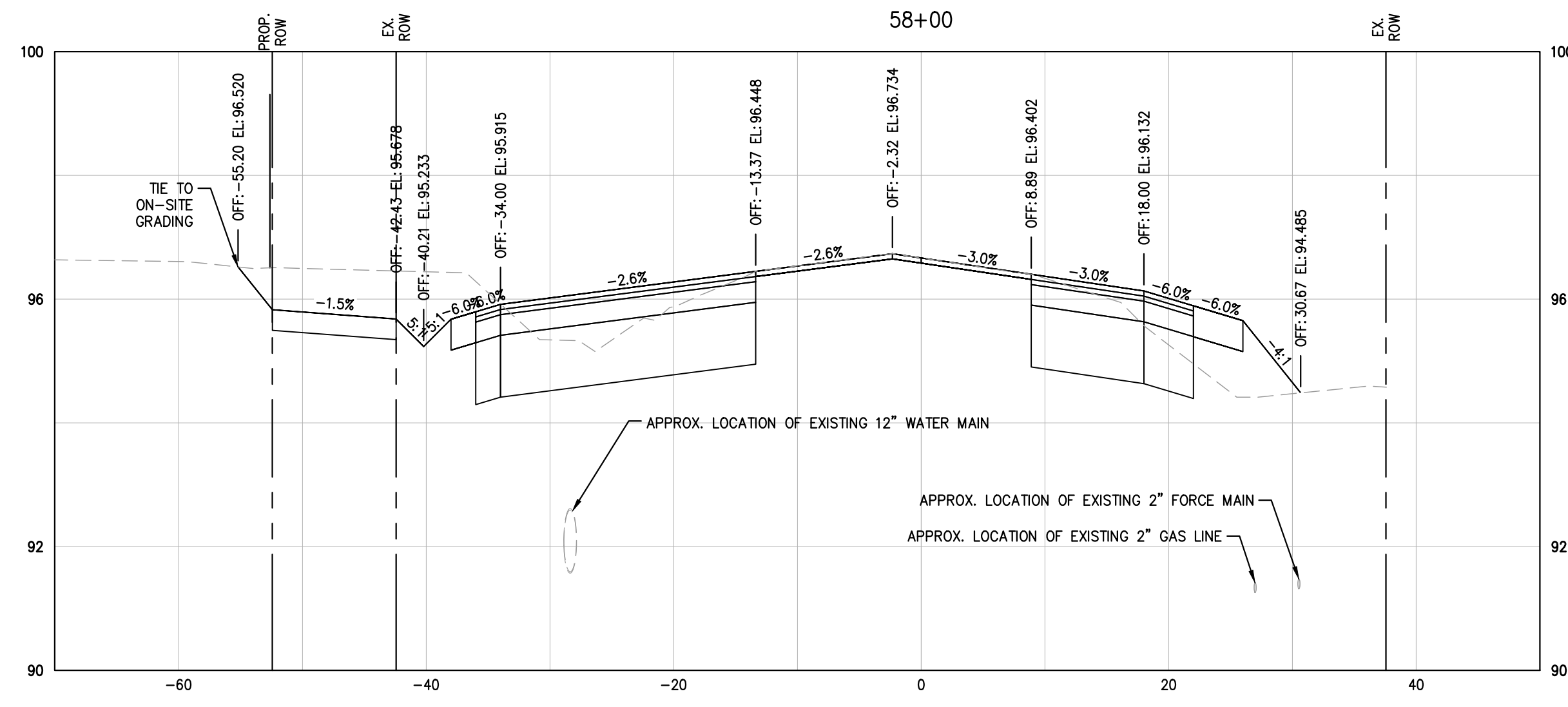
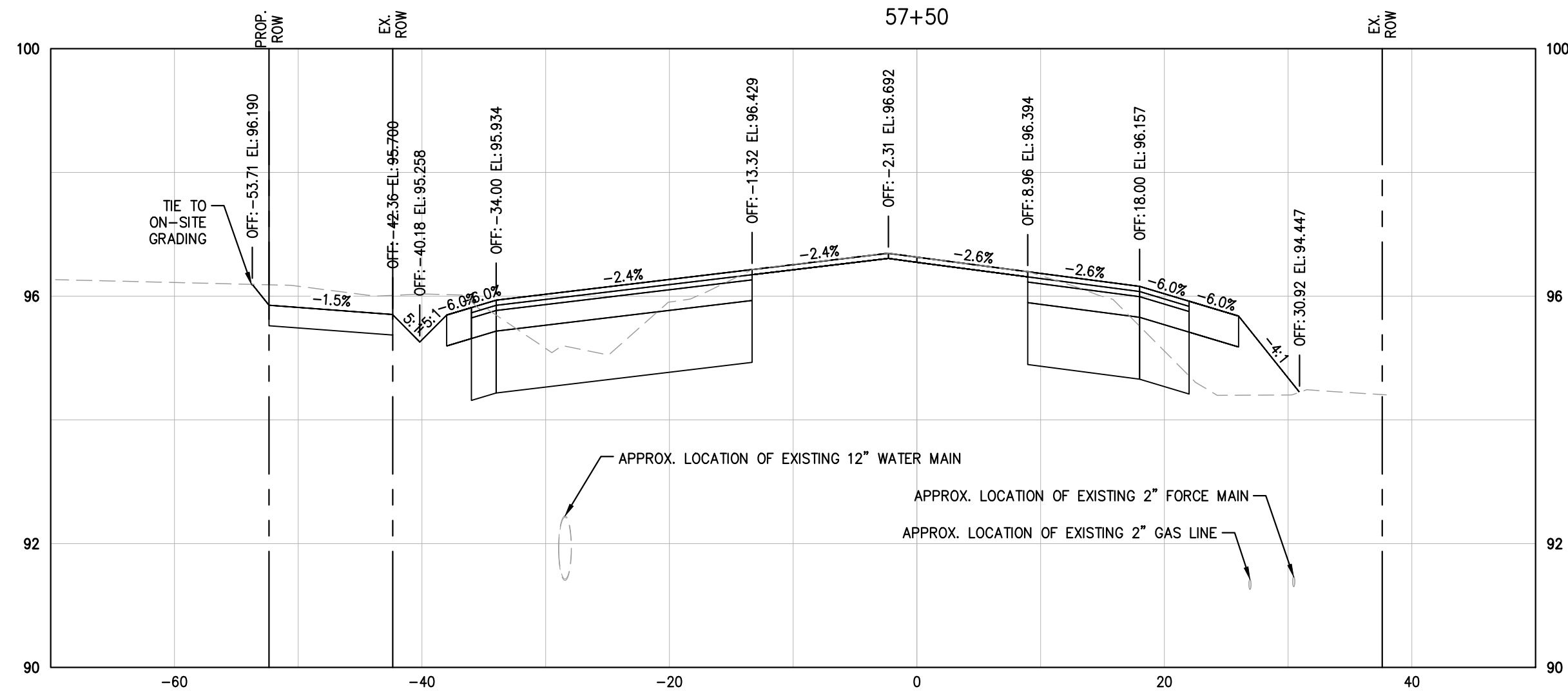
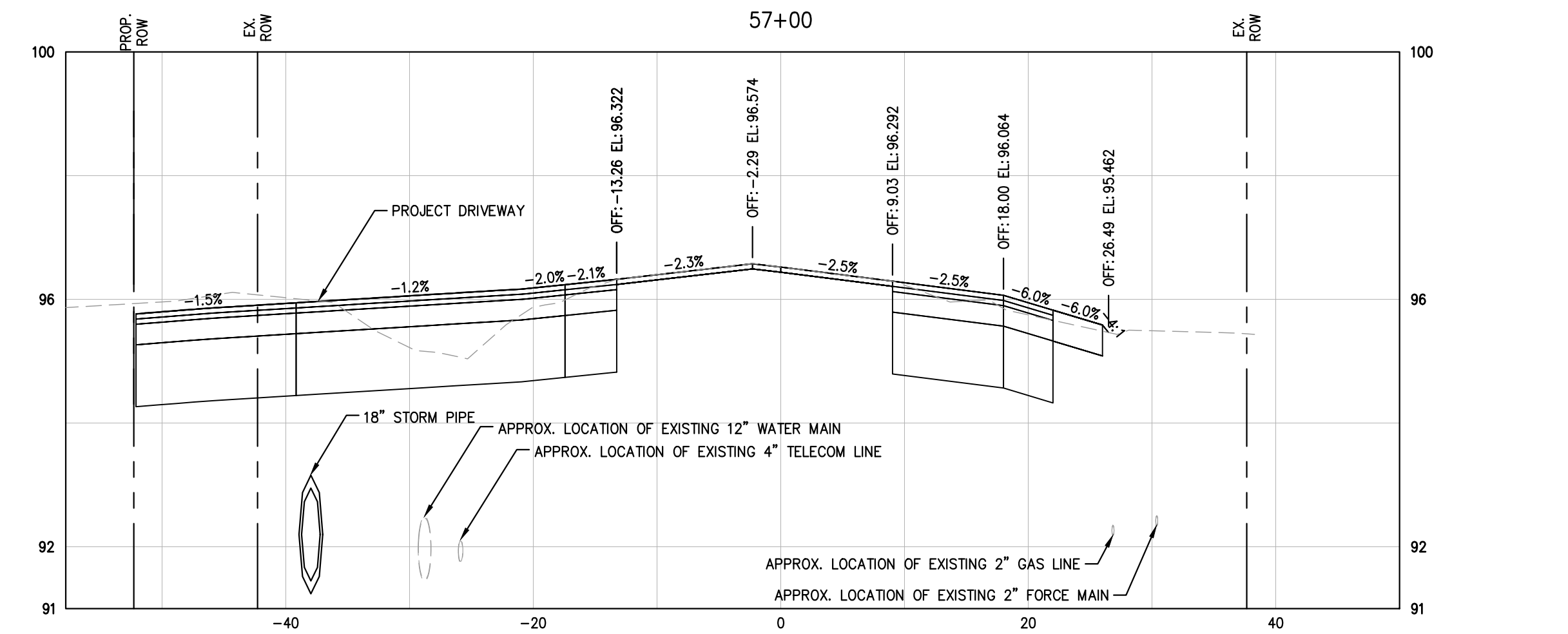
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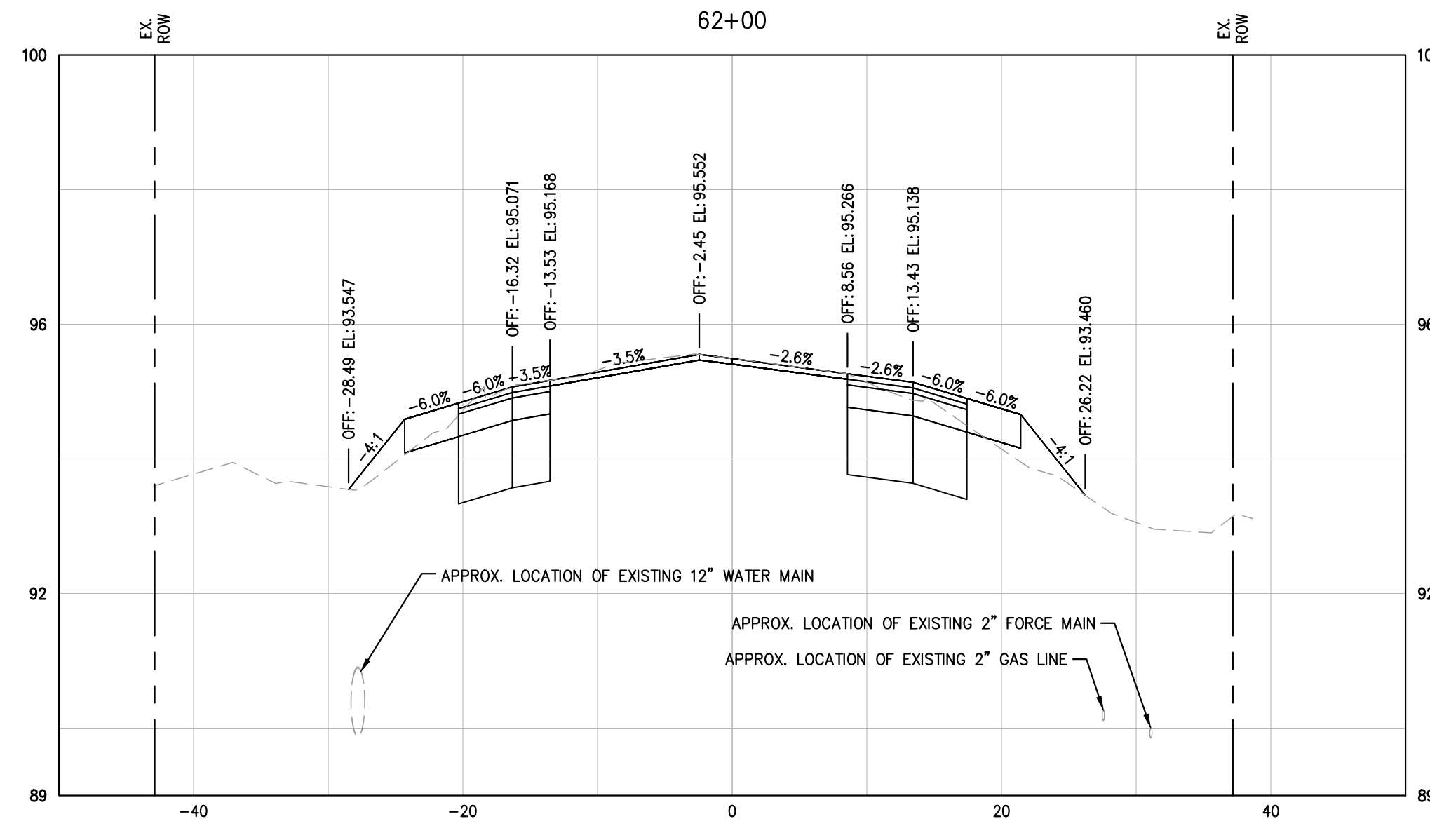
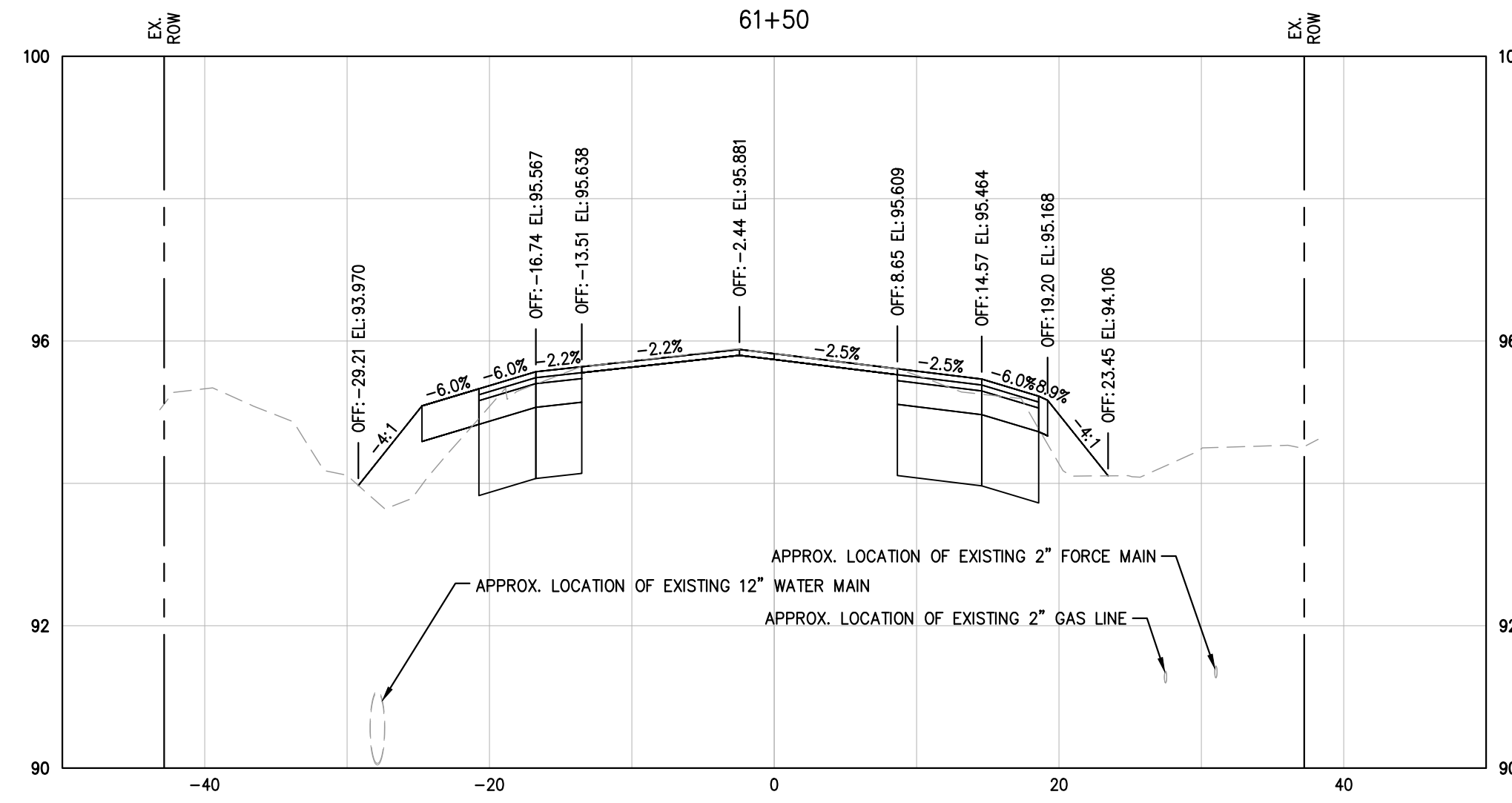
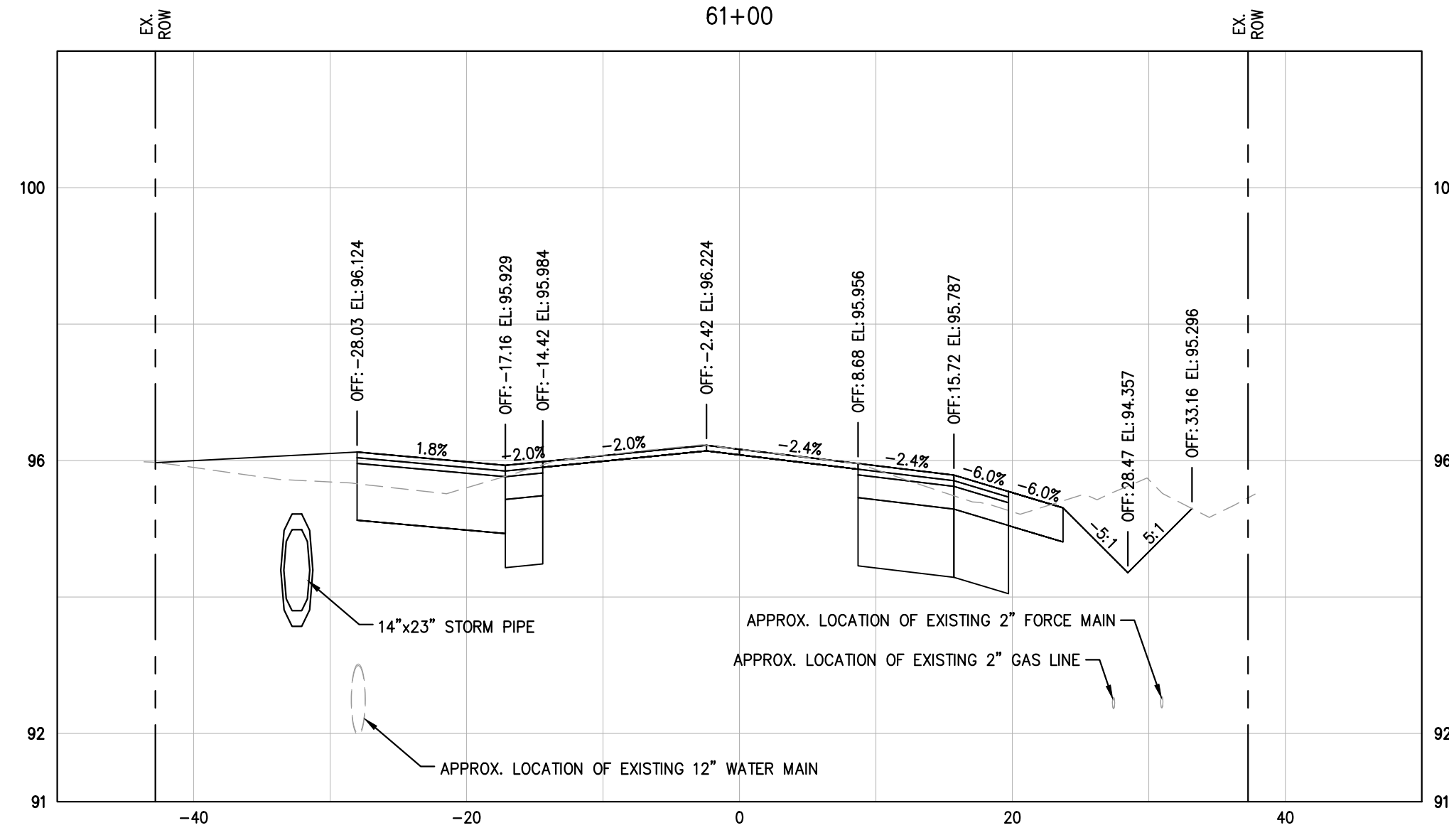
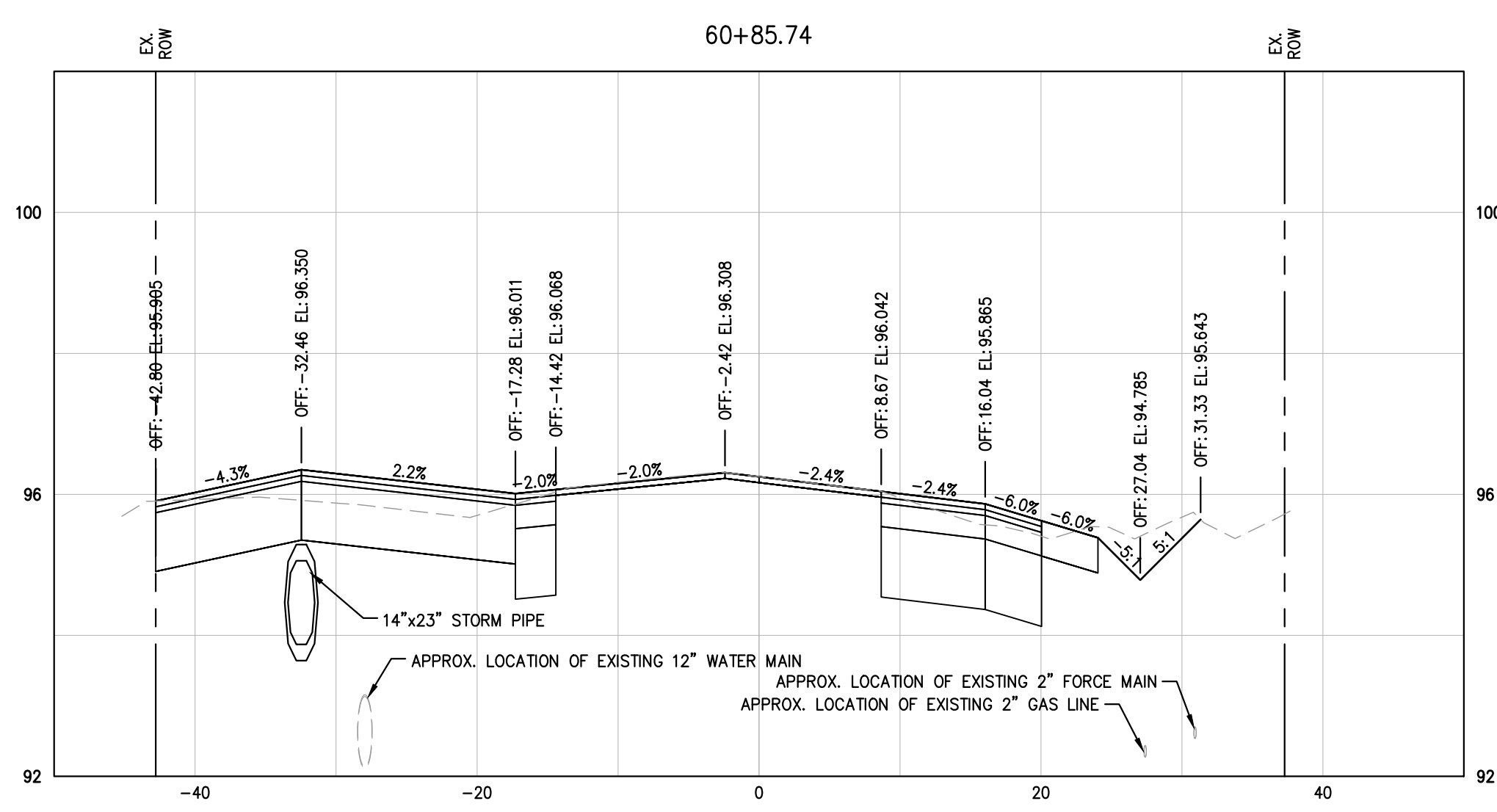
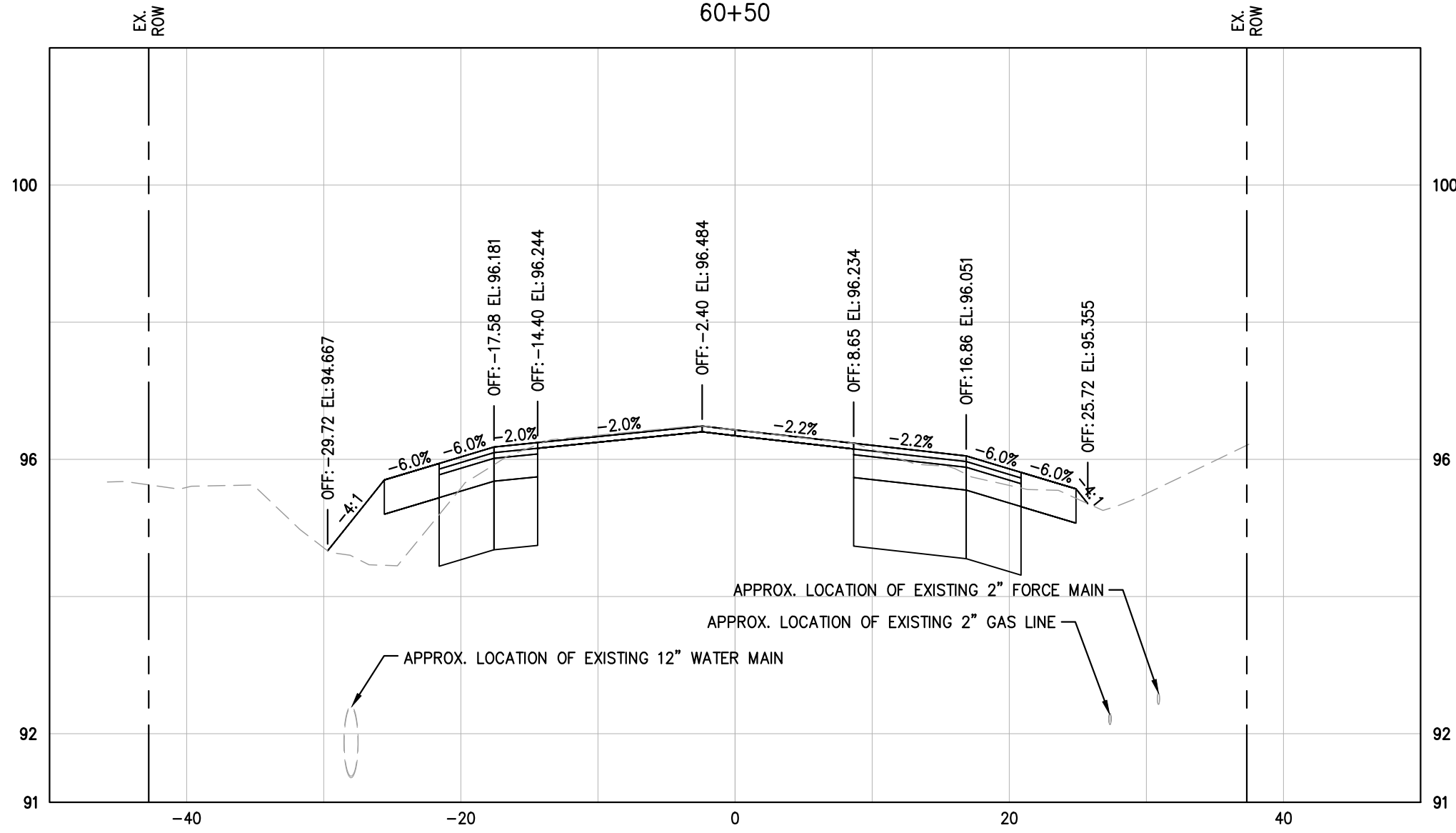
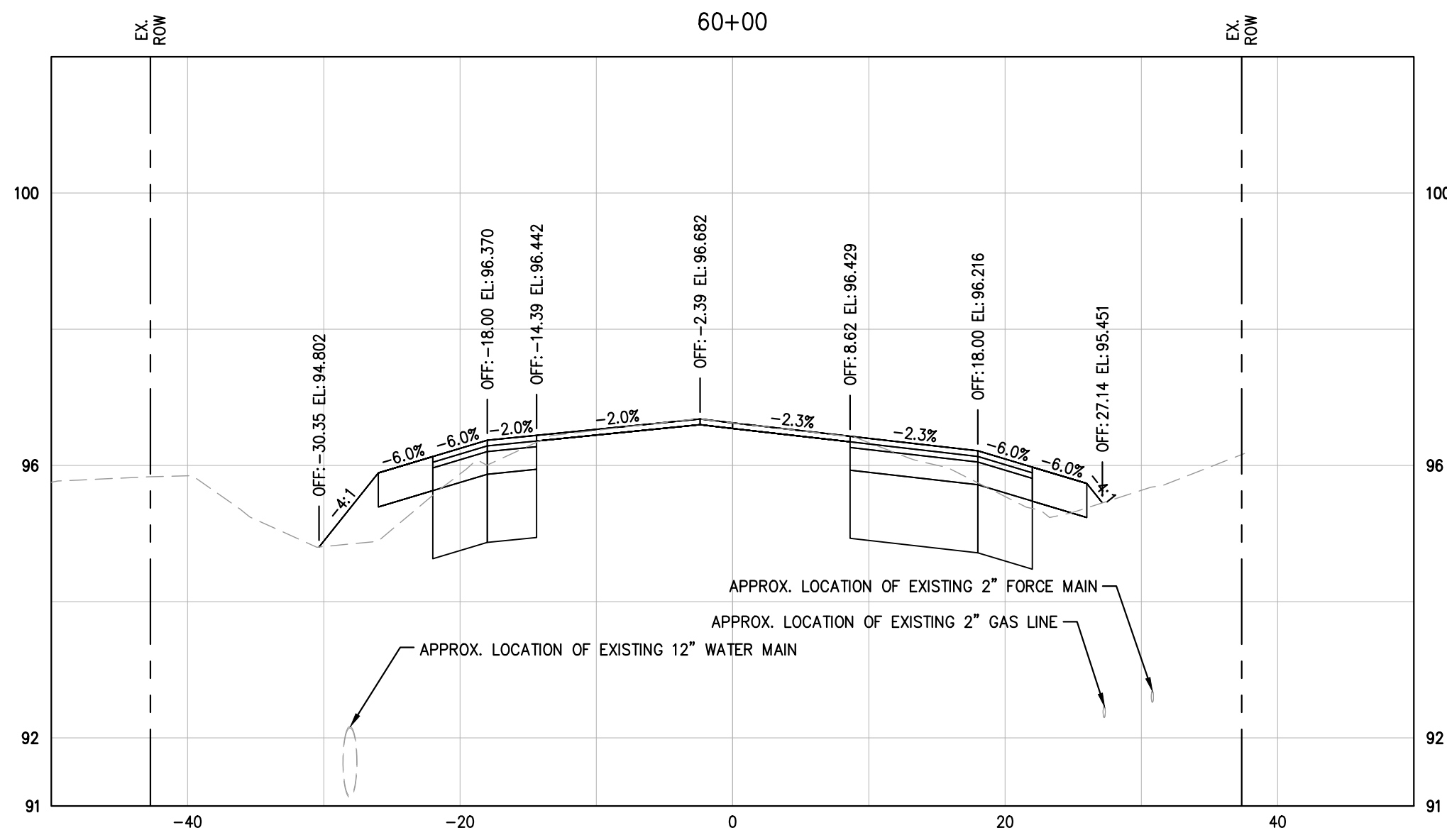
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