

GRANITE CREST SUBDIVISION PHASE IIIC (CD-21-01) ROLESVILLE, N.C. MARCH 10, 2021 MAY 27, 2021 SEPTEMBER 16, 2021 OCTOBER 28, 2021 OCTOBER 29, 2021 **OWNER / DEVELOPER:** HAL PERRY **REAL ESTATE MARKETING & CONSULTING INC.** 6200 FALLS OF NEUSE RD **SUITE 102** RALEIGH, NC 27609 LOT DEVELOPMENT NOTE LOT 132 SHALL NOT BE DEVELOPED UNTIL SUCH TIME THAT ACCESS TO A PUBLIC RIGHT-OF-WAY IS PROVIDED TO PIN 1759744853 (N/F MEYERS, JAMES & MEYERS, TERRI G) AND THE EXISTING 50' COR PUMP STATION ACCESS EASEMENT (BM2008 PG1173) CAN BE ABANDONED. Rolesville APPROVED FOR COMPLIANCE Case # Project: CIVIL ENGINEER: hese plans have been approved f Ordinance, UDO, and Standard Spe ject to statements & conditions her JAECO Water and Sewe Consulting Engineers The City of Raleig Public Sewer Sys methods used specifications of t **Jtilities Departr** NC License F-0289 The City of Raleig Public Water Sys methods used 333 Wade Ave specifications of t **Jtilities Departm** Raleigh, N.C. 27605 CITY C Phone (919) 828-4428 Electronic Appr approval is valid o below. The City FAX (919) 828-4711 authorized by th kept on file with issued. Any modi approval. City of Raleig Raleigh Wat The Construction Contractor responsible for the extension of water sewer, and/or reuse, as approved in these plans, is responsible for ALL UTILITY CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF RALEIGH STANDARDS AND SPECIFICATIONS.

STORMWATER EXEMPTION NOTE

THE ORIGINAL PHASING PLAN FOR THE SUBJECT DEVELOPMENT WAS APPROVED 03/08/2005. PER UDO 7.5.1.J(2) "ALL DEVELOPMENT AND REDEVELOPMENT PROJECTS FOR WHICH COMPLETE AND FULL APPLICATIONS WERE SUBMITTED AND ACCEPTED AS COMPLETE BY THE TOWN PRIOR TO THE EFFECTIVE DATE OF THIS ORDINANCE (08/03/2009) AND WHICH REMAIN VALID, UNEXPIRED, UNREVOKED AND NOT OTHERWISE TERMINATED AT THE TIME OF DEVELOPMENT OR REDEVELOPMENT SHALL BE EXEMPT FROM COMPLYING WITH ALL PROVISIONS OF THIS ORDINANCE DEALING WITH THE CONTROL AND/OR MANAGEMENT OF POST-CONSTRUCTION RUNOFF BUT SHALL BE REQUIRED TO COMPLY WITH ALL OTHER APPLICABLE PROVISIONS.

A PHASED DEVELOPMENT PLAN SHALL BE DEEMED APPROVED PRIOR TO THE EFFECTIVE DATE OF THIS ORDINANCE IF IT HAS BEEN APPROVED BY ALL NECESSARY GOVERNMENT UNITS, IT REMAINS VALID, UNEXPIRED, UNREVOKED AND NOT OTHERWISE TERMINATED, AND IT SHOWS:

(A) FOR THE INITIAL OR FIRST PHASE OF DEVELOPMENT: THE TYPE AND INTENSITY OF USE FOR A SPECIFIC PARCEL OR PARCELS. THIS SHALL INCLUDE, AT A MINIMUM, THE BOUNDARIES OF THE PROJECT AND A SUBDIVISION PLAN THAT HAS BEEN APPROVED.

(B) FOR ANY SUBSEQUENT PHASE OF DEVELOPMENT: SUFFICIENT DETAIL SHOWING THAT IMPLEMENTATION OF THE REQUIREMENTS OF THIS ORDINANCE TO THAT PHASE OF DEVELOPMENT WOULD REQUIRE A MATERIAL CHANGE IN THAT PHASE OF THE PLAN."

ATTENTION CONTRACTORS:

contacting the PUBLIC UTILITIES DEPARTMENT at (919) 996-4540 a least twenty four hours prior to beginning any of their construction. FAILURE to notify both City Departments in advance of beginning construction, will result in the issuance of monetary fines, and require reinstallation of any water or sewer facilities not inspected as a result of this notification failure. FAILURE to call for Inspection, Install a Downstream Plug, have Permitted Plans on the jobsite, or any other Violation of CITY OF RALEIGH STANDARDS will result in a Fine and Possible Exclusion from future work in the CITY OF RALEIGH.

SITE	E DATA
OWNER / DEVELOPER:	REALSTATE MARKETING & CONSULTING INC. 6200 FALLS OF NEUSE RD; STE 102 RALEIGH, NC 27609
SITE ADDRESS:	SMOKE WILLOW WAY WILLOW TOWER COURT
WAKE COUNTY PIN #:	1759748924
ZONING DISTRICT:	R-2 SUD CLUSTER
SETBACKS:	FRONT=30' SIDE=12' REAR=25' CORNER=22'
TOTAL ACREAGE:	337,077 SF OR 7.7382 ACRES
EXISTING USE:	VACANT
PROPOSED USE:	SINGLE FAMILY HOMES
NO. OF LOTS:	19
LOT NUMBERS:	130-140 & 148-155
OPEN SPACE:	14,784 S.F 0.34 AC.
SMALLEST LOT:	11,300 S.F 0.26 AC.
PUBLIC WATER DISTRICT:	CITY OF RALEIGH
PUBLIC SEWER DISTRICT:	CITY OF RALEIGH
PROPOSED SEWER:	974 LF OF 8"
SEWER STUBS:	19
PROPOSED WATER:	264 LF OF 6" 162 LF OF 8" 628 LF OF 12"
WATER STUBS:	19
STREETS:	917 L.F.

Date:
or compliance with the Town Code of
ecifications & Construction Details, sub-
reby incorporated by reference.
TE PERMITTING APPROVAL
r Permits (If applicable)
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OF RALEIGH - PLANS AUTHORIZED FOR
CONSTRUCTION oval: This approval is being issued electronically. This only upon the signature of a City of Raleigh Review Officer will retain a copy of the approved plans. Any work his approval must proceed in accordance with the plans the City. This electronic approval may not be edited once lification to this approval once issued will invalidate this
h Development Approval

SHEET INDEX

	COVER SHEET
EE-1	EXISTING CONDITIONS
CE-2	SITE PLAN
CE-3	UTILITY PLAN
CE-4	GRADING & STORM DRAINAGE PLAN
CE-5	SMOKE WILLOW WAY PLAN & PROFILE
CE-6	GRANITE VIEW DR PLAN & PROFILE
CE-7	WILLOW TOWER CT PLAN & PROFILE
CE-8	SITE DETAILS
CE-9	SEWER DETAILS
CE-10	WATER DETAILS
CE-11	SOIL & EROSION CONTROL PHASE 1 PLAN
CE-12	SOIL & EROSION CONTROL PHASE 2 PLAN
CE-13	SOIL & EROSION CONTROL DETAILS
CE-14	NCG01 NOTES & DETAILS
CE-15	NCG01 NOTES & DETAILS

IMPERVIOUS AREA

SUMMARY

ROW 19 LOTS

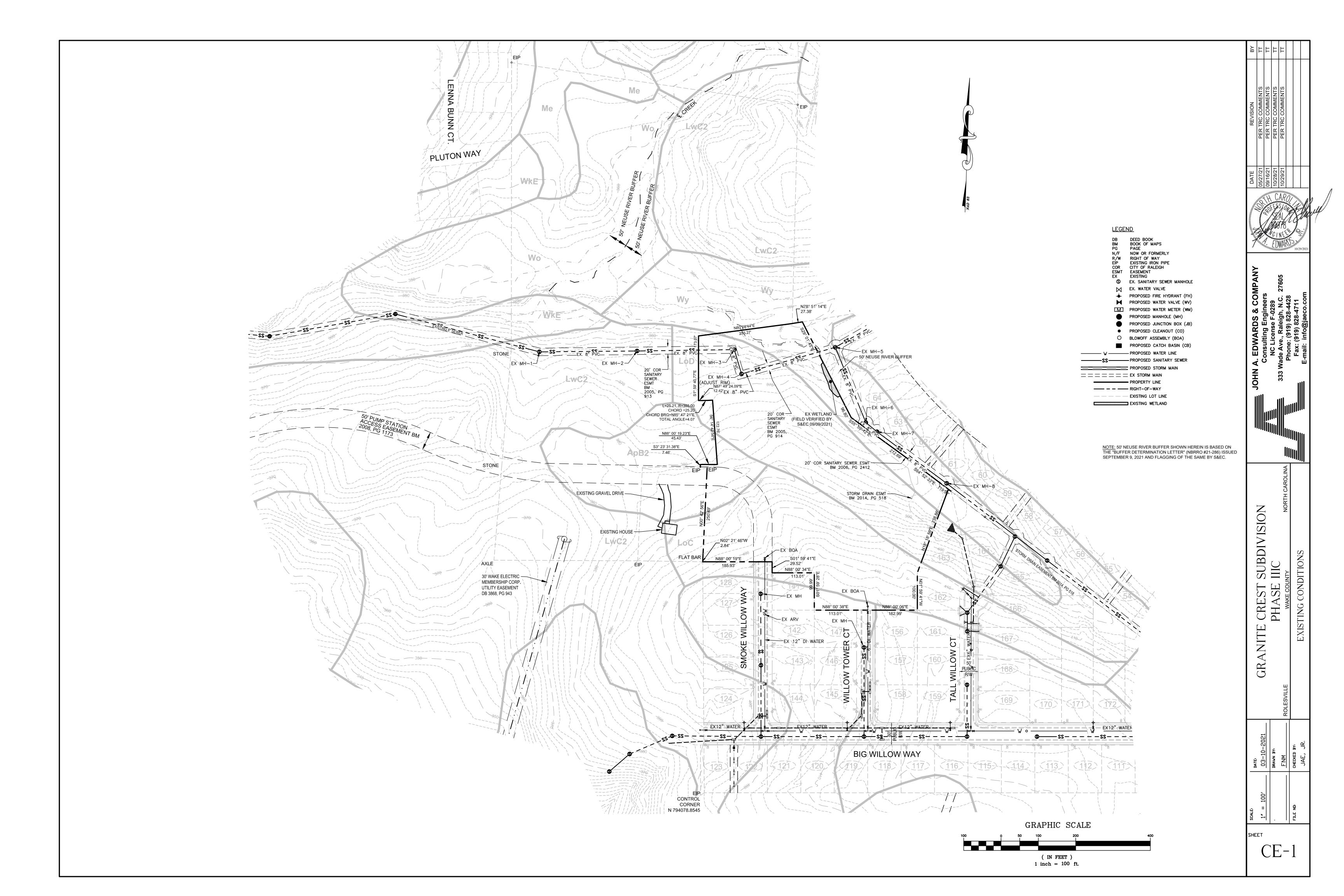
(5,000 SF MIA PER LOT)

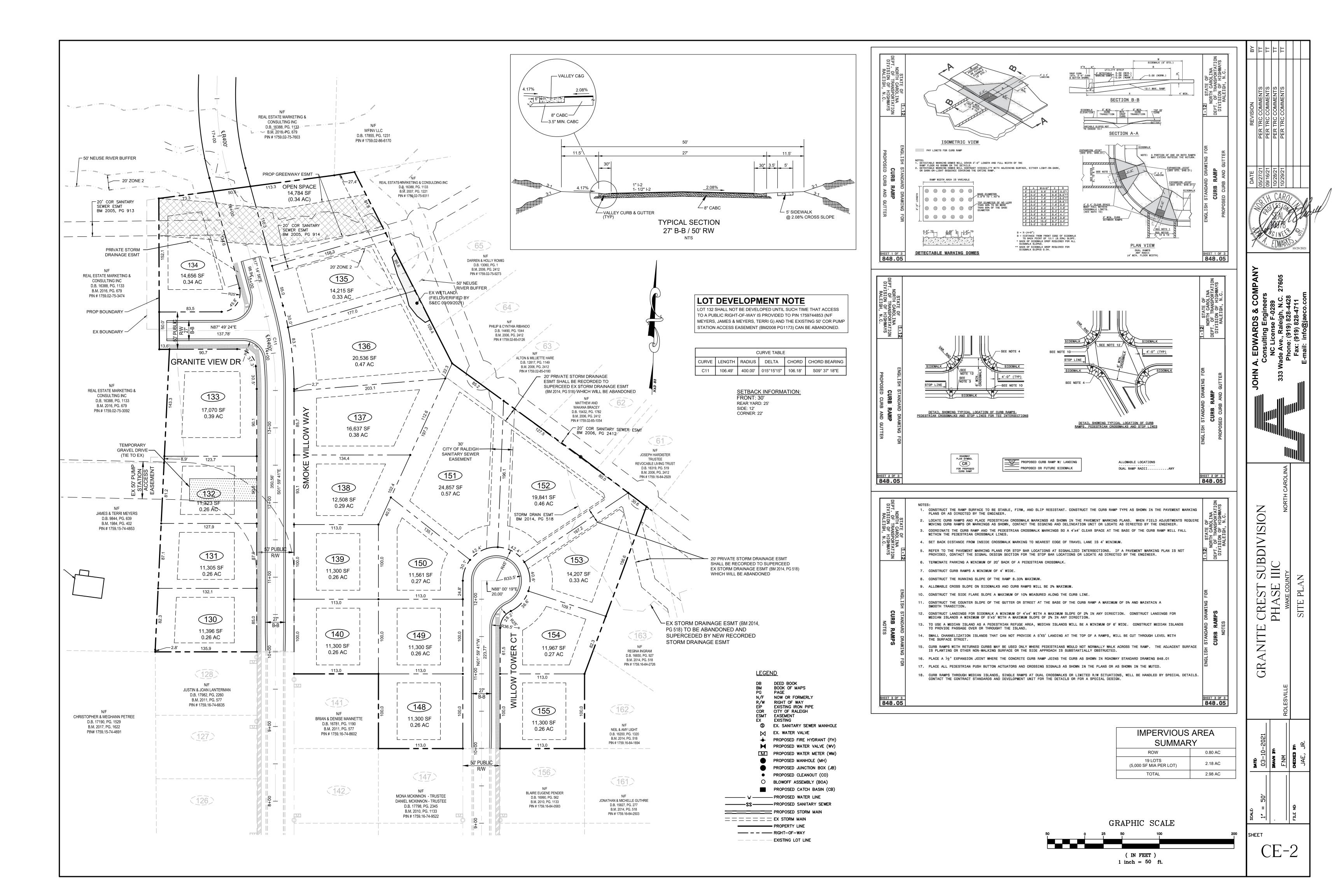
TOTAL

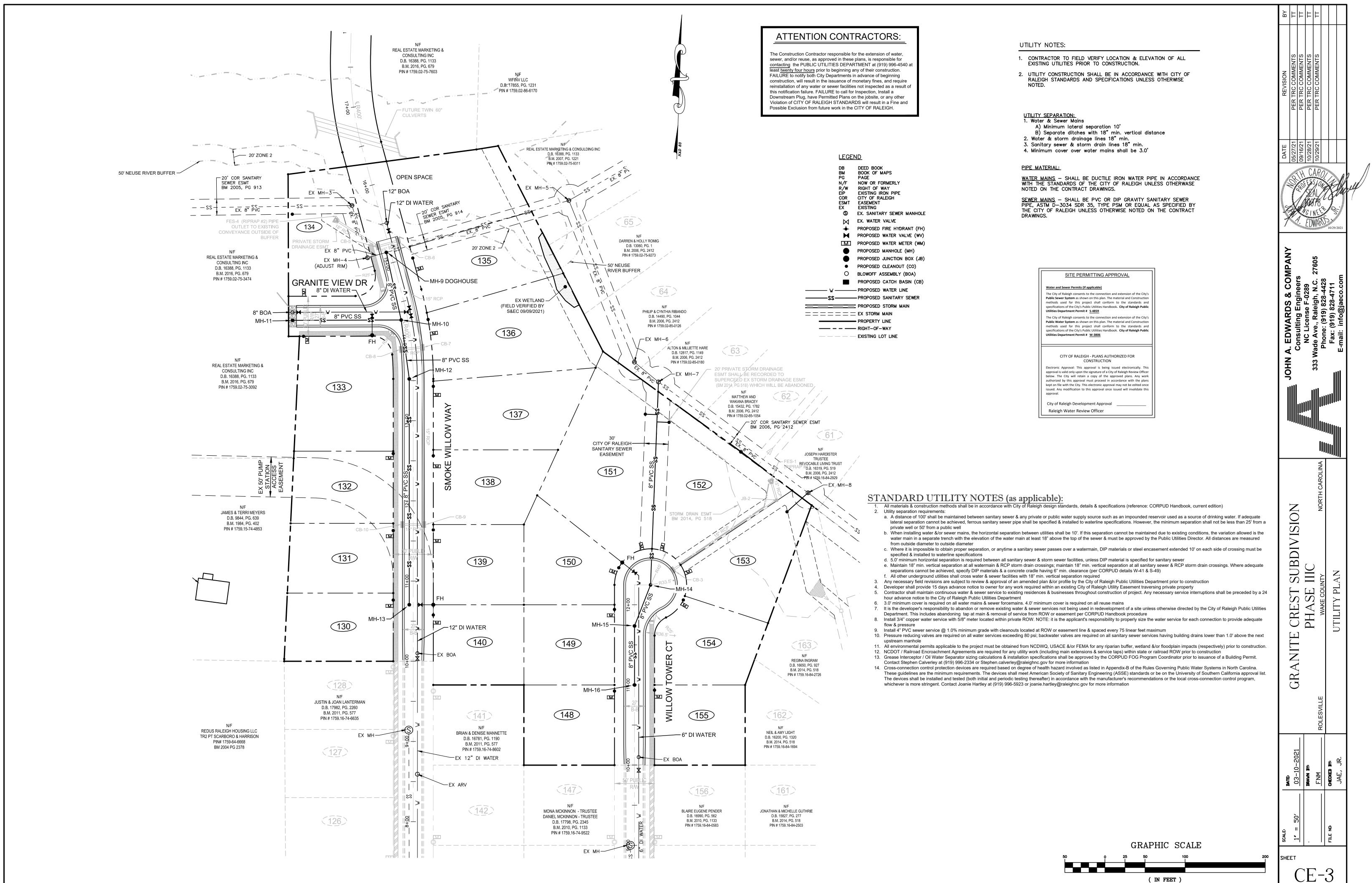
0.80 AC

2.18 AC

2.98 AC

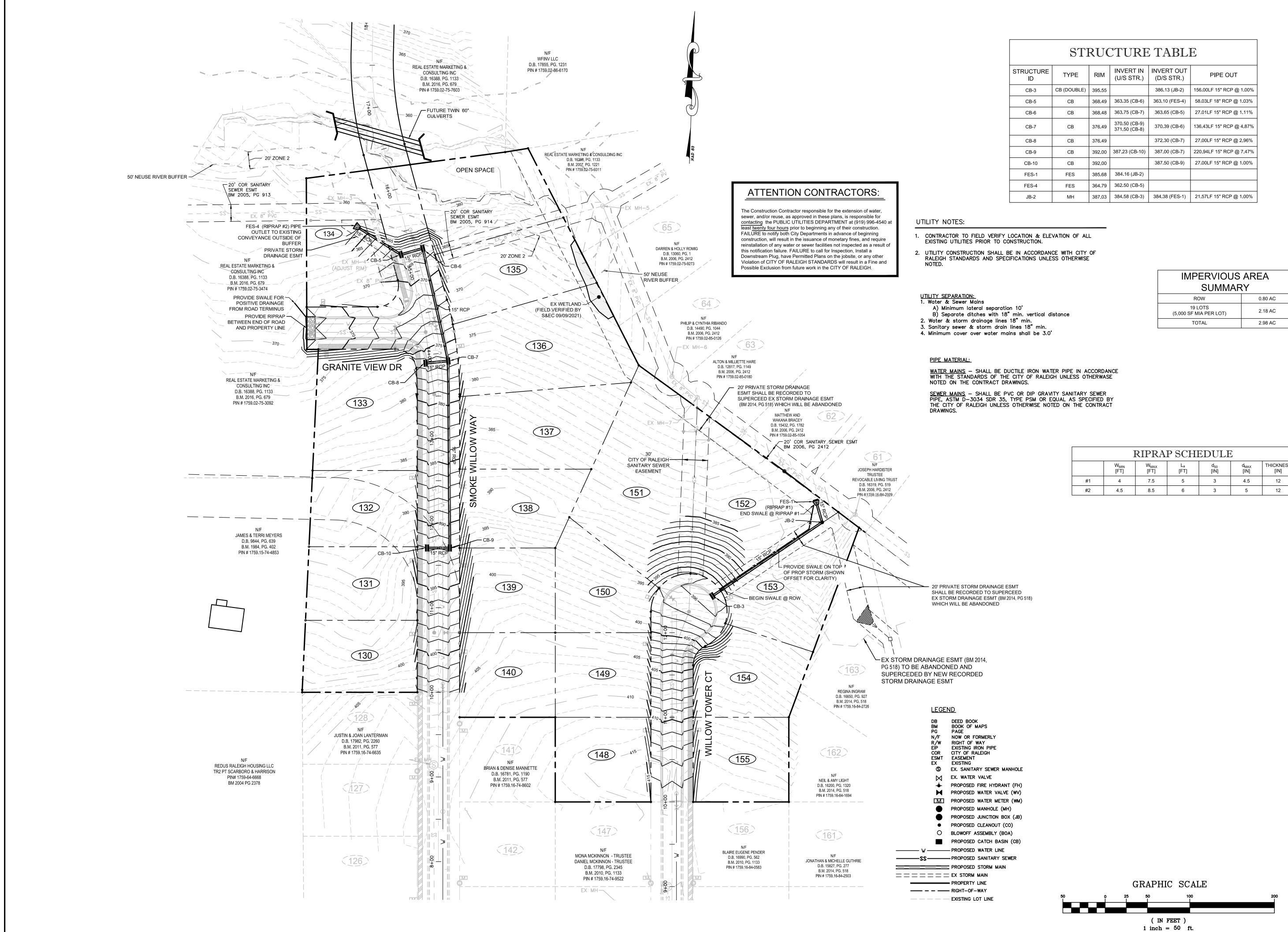






GRAPHIC	SCA

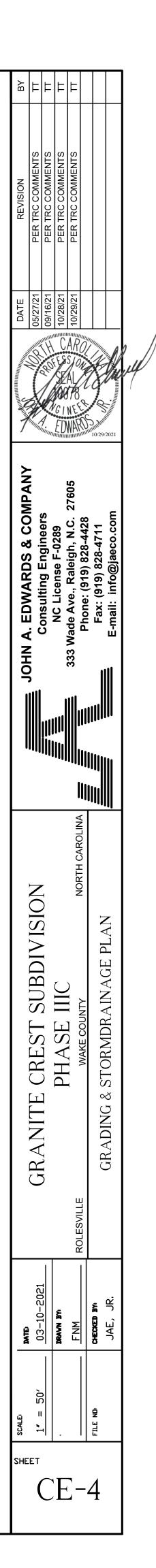
(IN FEET) 1 inch = 50 ft.

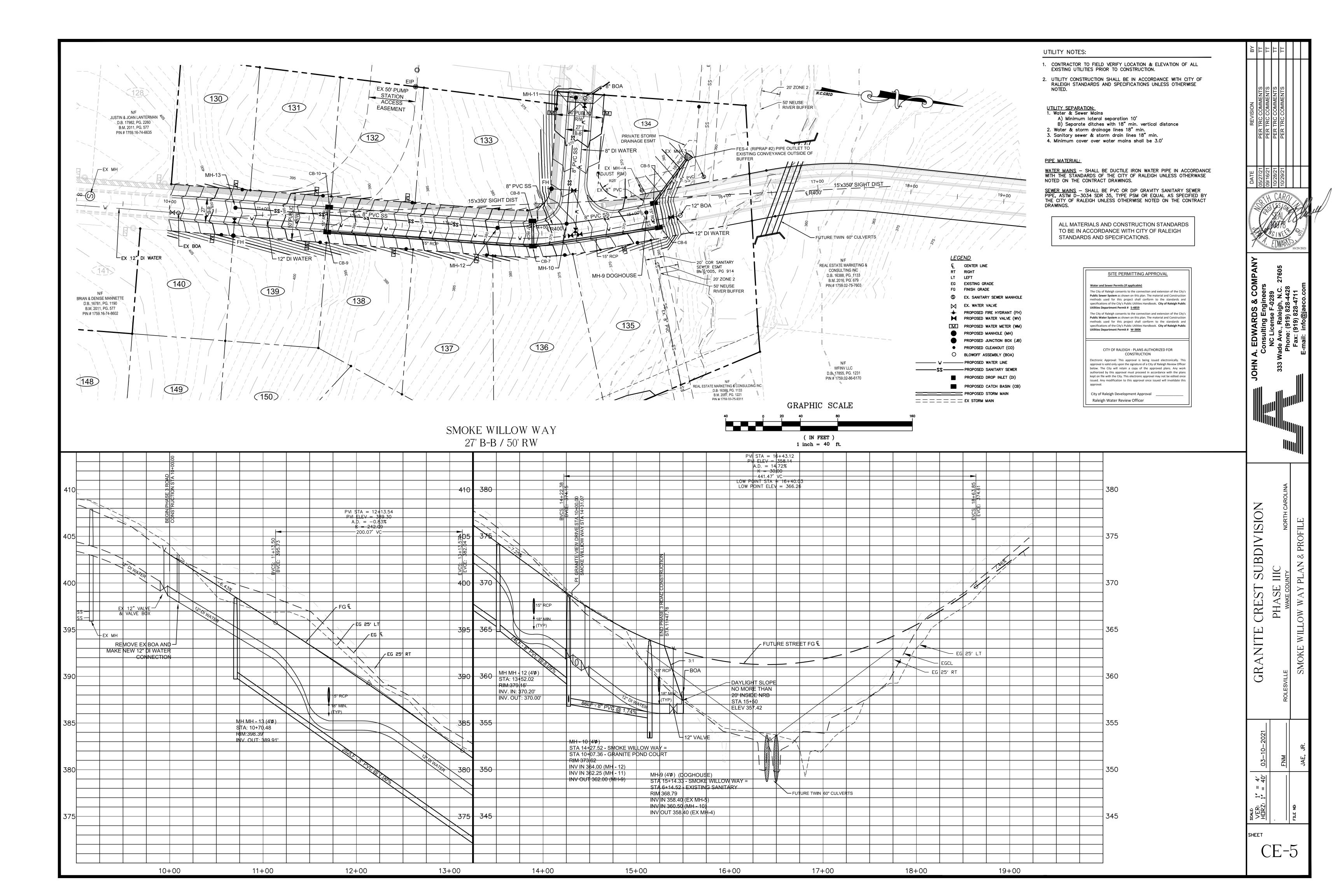


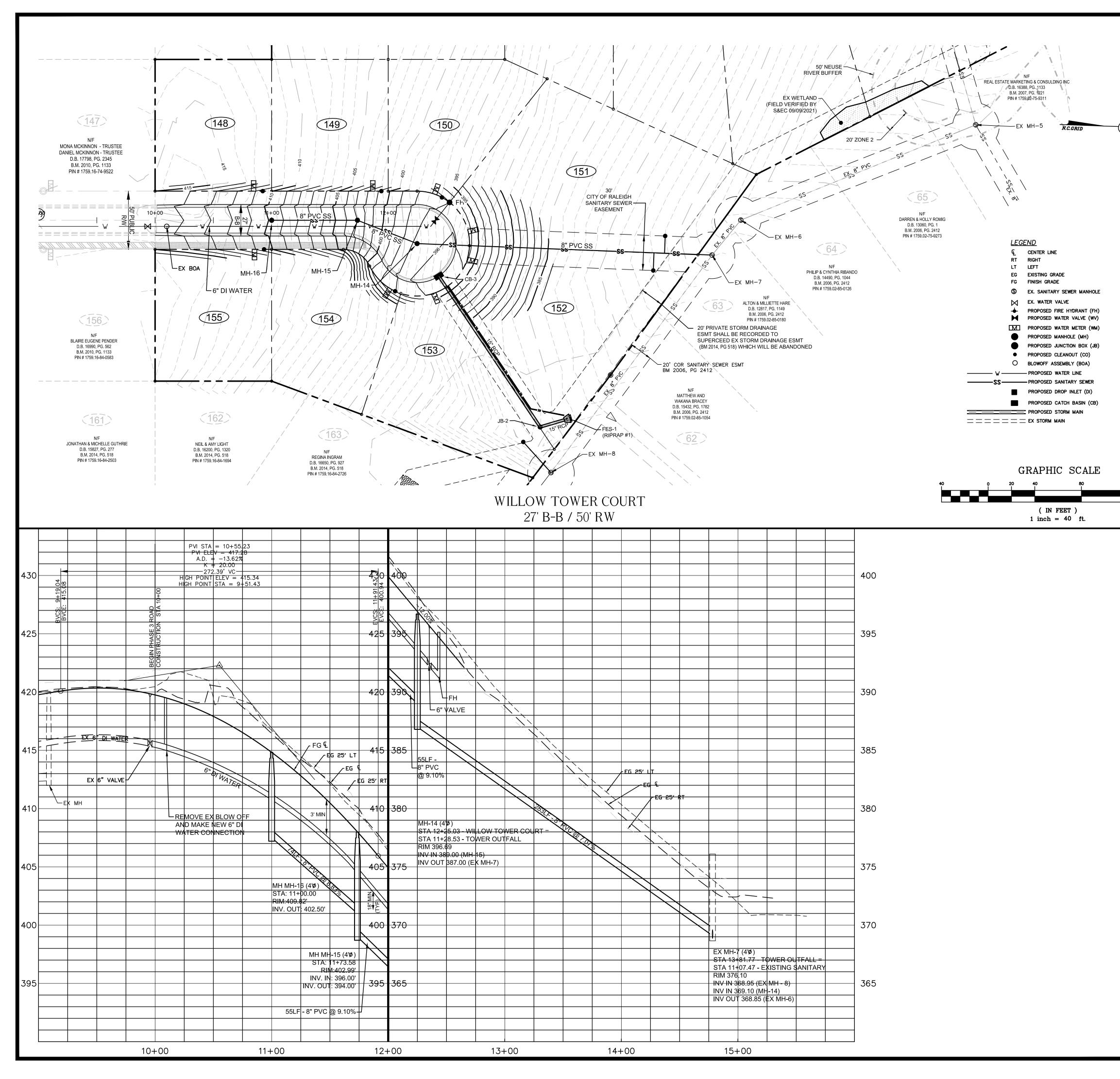
STRUCTURE TABLE					
STRUCTURE ID	TYPE	RIM	INVERT IN (U/S STR.)	INVERT OUT (D/S STR.)	PIPE OUT
CB-3	CB (DOUBLE)	395.55		386.13 (JB-2)	156.00LF 15" RCP @ 1.00%
CB-5	СВ	368.49	363.35 (CB-6)	363.10 (FES-4)	58.03LF 18" RCP @ 1.03%
CB-6	СВ	368.48	363.75 (CB-7)	363.65 (CB-5)	27.01LF 15" RCP @ 1.11%
CB-7	СВ	376.49	370.50 (CB-9) 371.50 (CB-8)	370.39 (CB-6)	136.43LF 15" RCP @ 4.87%
CB-8	СВ	376.49		372.30 (CB-7)	27.00LF 15" RCP @ 2.96%
CB-9	СВ	392.00	387.23 (CB-10)	387.00 (CB-7)	220.94LF 15" RCP @ 7.47%
CB-10	СВ	392.00		387.50 (CB-9)	27.00LF 15" RCP @ 1.00%
FES-1	FES	385.68	384.16 (JB-2)		
FES-4	FES	364.79	362.50 (CB-5)		
JB-2	МН	387.03	384.58 (CB-3)	384.38 (FES-1)	21.57LF 15" RCP @ 1.00%

IMPERVIOUS AREA SUMMARY			
ROW	0.80 AC		
19 LOTS (5,000 SF MIA PER LOT)	2.18 AC		
TOTAL	2.98 AC		

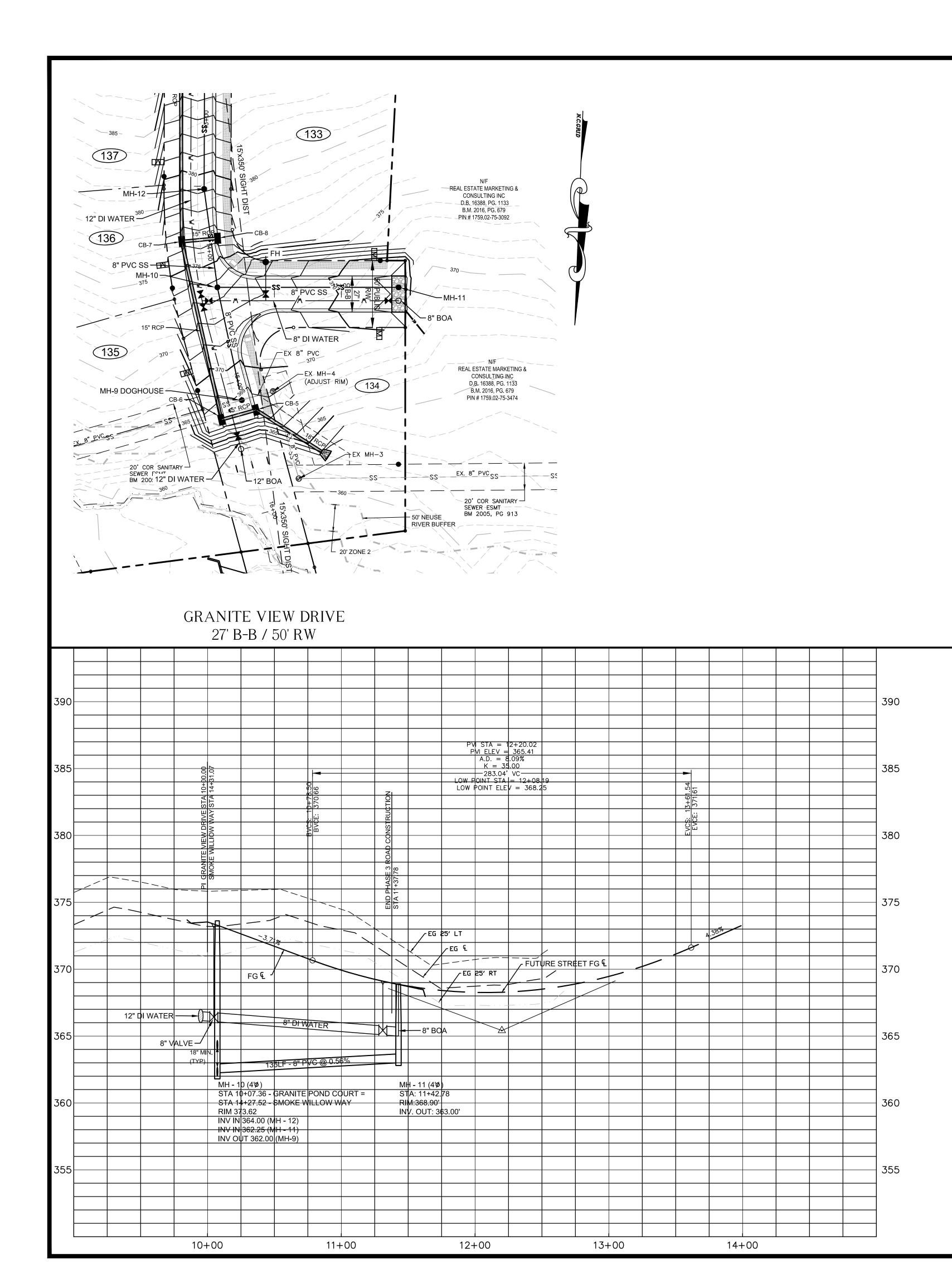
	RIPRAP SCHEDULE					
	W _{MIN} [FT]	W _{MAX} [FT]	La [FT]	d ₅₀ [IN]	d _{MAX} [IN]	THICKNESS [IN]
#1	4	7.5	5	3	4.5	12
#2	4.5	8.5	6	3	5	12

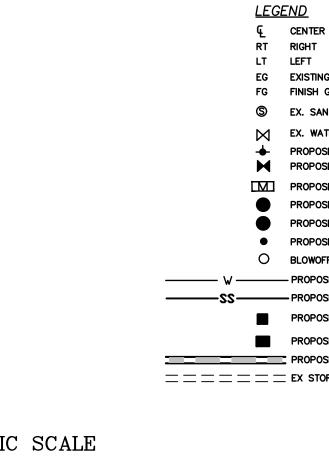


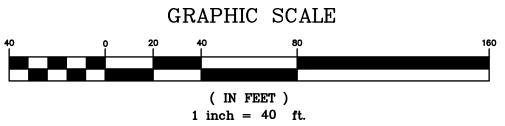




	UTILITY NOTES:	BX □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □
	 CONTRACTOR TO FIELD VERIFY LOCATION & ELEVATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. UTILITY CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF RALEIGH STANDARDS AND SPECIFICATIONS UNLESS OTHERWISE NOTED. 	/ISION E COMMENTS E COMMENTS E COMMENTS E COMMENTS
	 <u>UTILITY SEPARATION:</u> 1. Water & Sewer Mains A) Minimum lateral separation 10' B) Separate ditches with 18" min. vertical distance 2. Water & storm drainage lines 18" min. 3. Sanitary sewer & storm drain LINES 18" min. 4. Minimum cover over water mains shall be 3.0' 	REVISION PER TRC COMI PER TRC COMI PER TRC COMI
	PIPE MATERIAL: WATER MAINS – SHALL BE DUCTILE IRON WATER PIPE IN ACCORDANCE WITH THE STANDARDS OF THE CITY OF RALEIGH UNLESS OTHERWASE NOTED ON THE CONTRACT DRAWINGS. SEWER MAINS – SHALL BE PVC OR DIP GRAVITY SANITARY SEWER PIPE, ASTM D–3034 SDR 35, TYPE PSM OR EQUAL AS SPECIFIED BY THE CITY OF RALEIGH UNLESS OTHERWISE NOTED ON THE CONTRACT DRAWINGS. ALL MATERIALS AND CONSTRUCTION STANDARDS TO BE IN ACCORDANCE WITH CITY OF RALEIGH STANDARDS AND SPECIFICATIONS.	DATE DATE
	SITE PERMITTING APPROVAL Water and Sewer Permits (If applicable) The City of Raleigh consents to the connection and extension of the City's Public Sewer System as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Papartment Permit # <u>5-4859</u> The City of Raleigh consents to the connection and extension of the City's Public Water System as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public Water System as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public Water System as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public Water System as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public Water System as shown on the System as shown on t	JOHN A. EDWARDS & COMPANY Consulting Engineers NC License F-0289 333 Wade Ave., Raleigh, N.C. 27605 Phone: (919) 828-4711 Fax: (919) 828-4711 E-mail: info@jaeco.com
160	approval. City of Raleigh Development Approval Raleigh Water Review Officer	
		GRANITE CREST SUBDIVISION PHASE IIIC NORTH CREDINA NORTH CAROLINA WILLOW TOWER COURT PLAN & PROFILE
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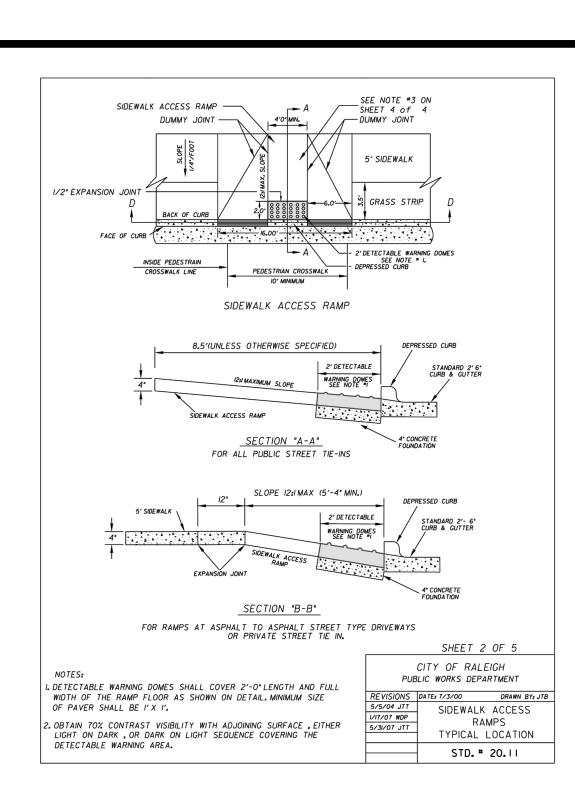


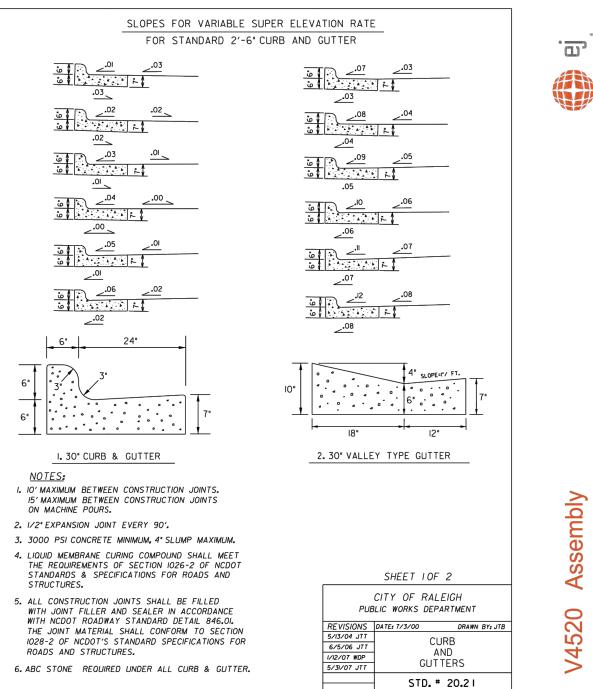


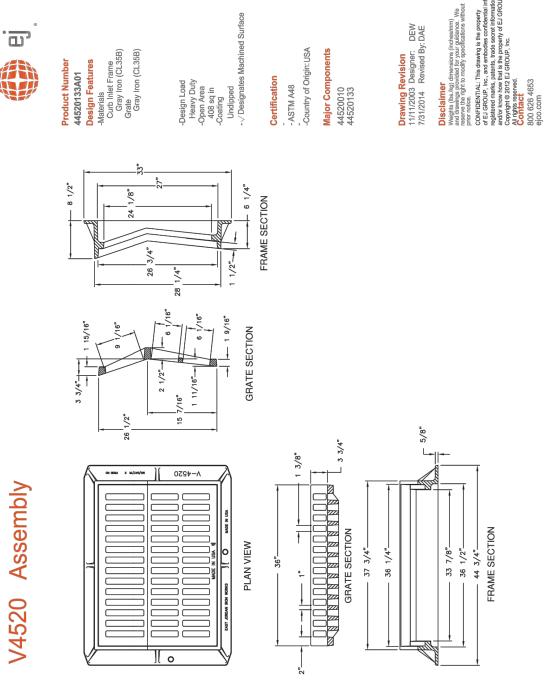


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	ALL MATERIALS AND CONSTRUCTION STANDARDS TO BE IN ACCORDANCE WITH CITY OF RALEIGH	
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WATER VALVE POSED FIRE HYDRANT (FH)	Water and Sewer Permits (If applicable) The City of Raleigh consents to the connection and extension of the City's Public Sewer Surface as shown as this play. The material and Casterution	
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POSED MANHOLE (MH) POSED JUNCTION BOX (JB)	The City of Raleigh consents to the connection and extension of the City's Public Water System as shown on this plan. The material and Construction	
POSED CLEANOUT (CO)	methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook. City of Raleigh Public Utilities Department Permit # <u>W-3806</u>	WARD ulting E License ve., Rale e: (919) 8: : info@j
NOFF ASSEMBLY (BOA) POSED WATER LINE		 A. EDWAR Consulting NC Licens NC Licens ade Ave., Ra ade Ave., Ra Phone: (919) Fax: (919) E-mail: info(
POSED SANITARY SEWER POSED DROP INLET (DI)	CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION	⊢ _ PI C C C
POSED CATCH BASIN (CB)	Electronic Approval: This approval is being issued electronically. This approval is valid only upon the signature of a City of Raleigh Review Officer below. The City will retain a copy of the approved plans. Any work	JOHN 333 J
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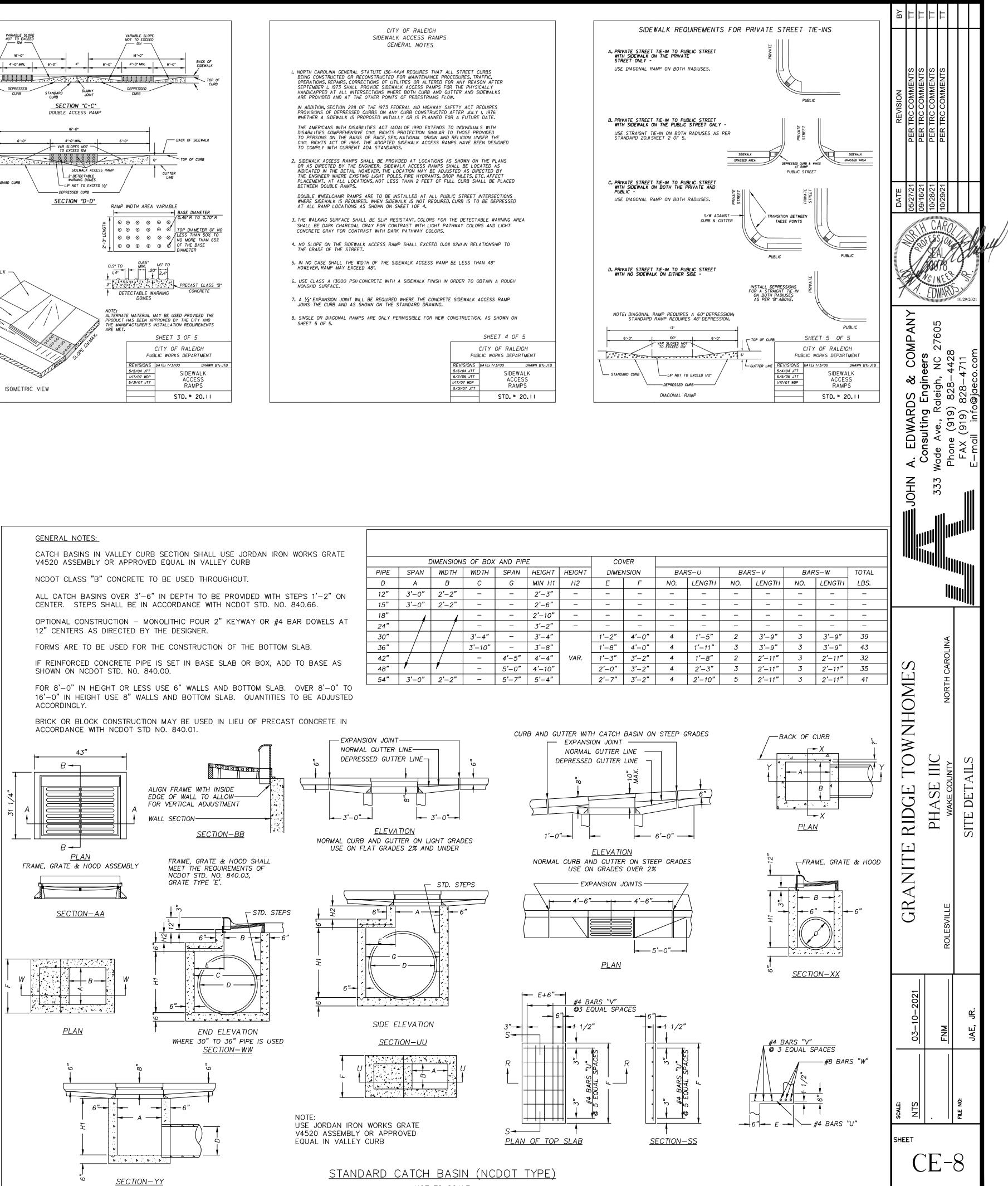
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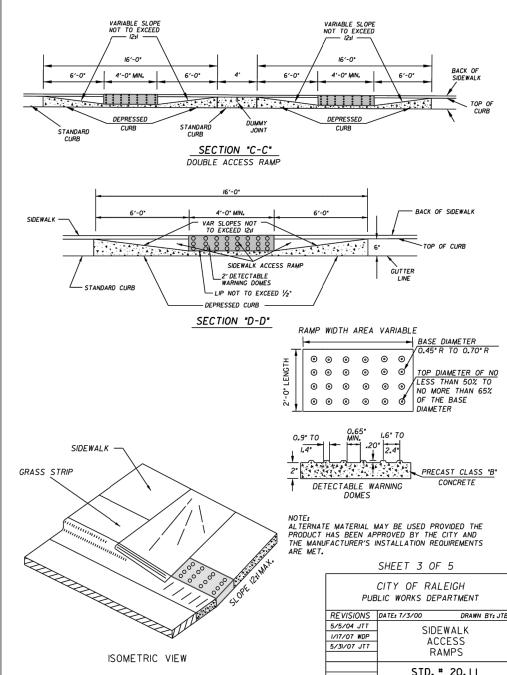


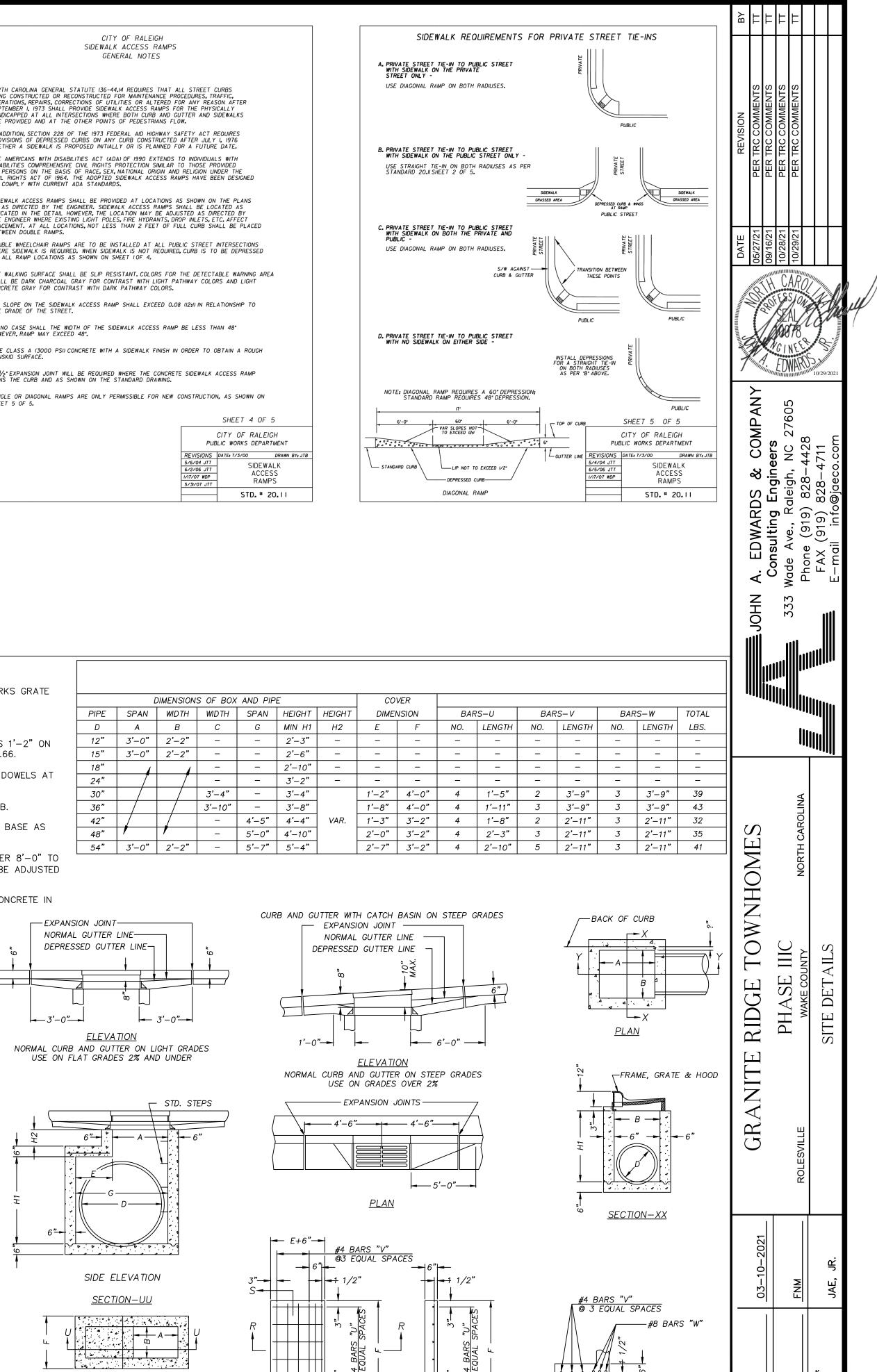


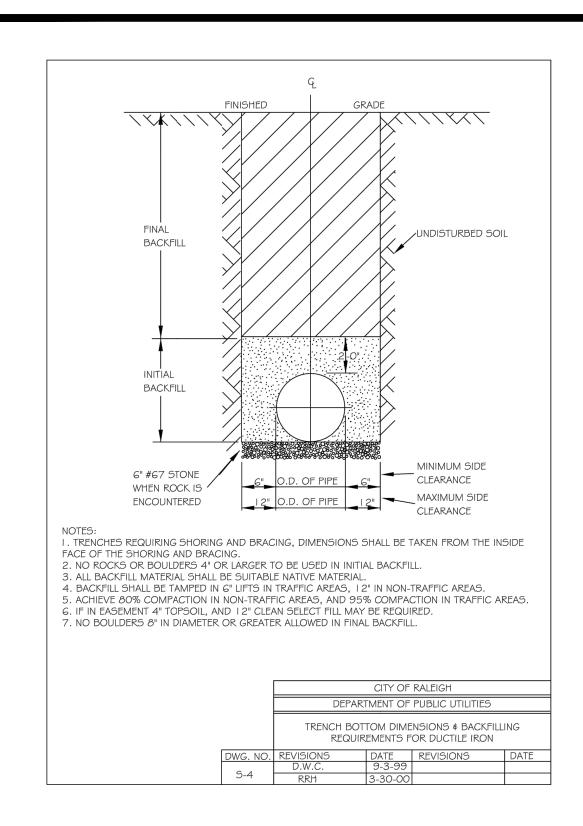


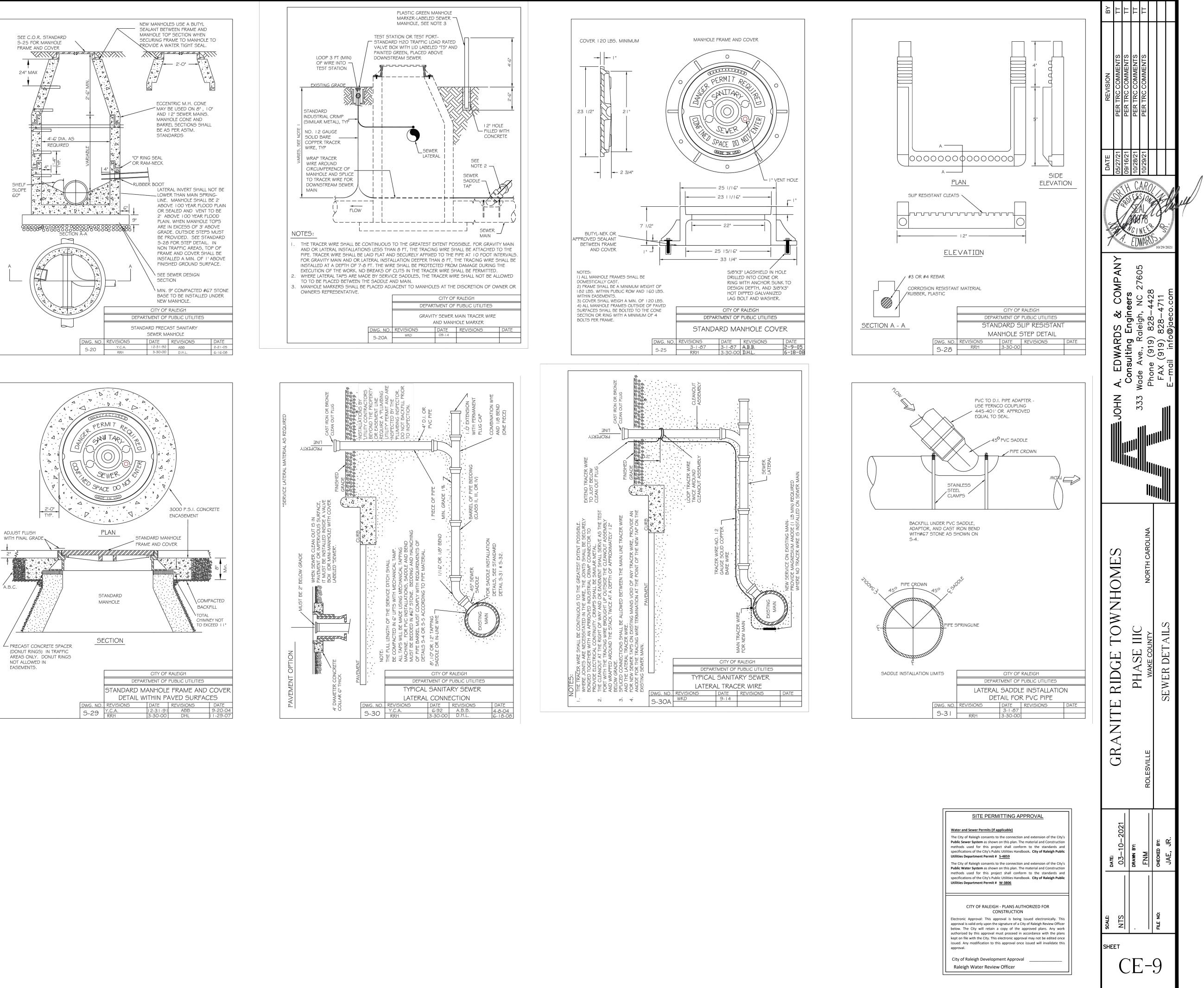


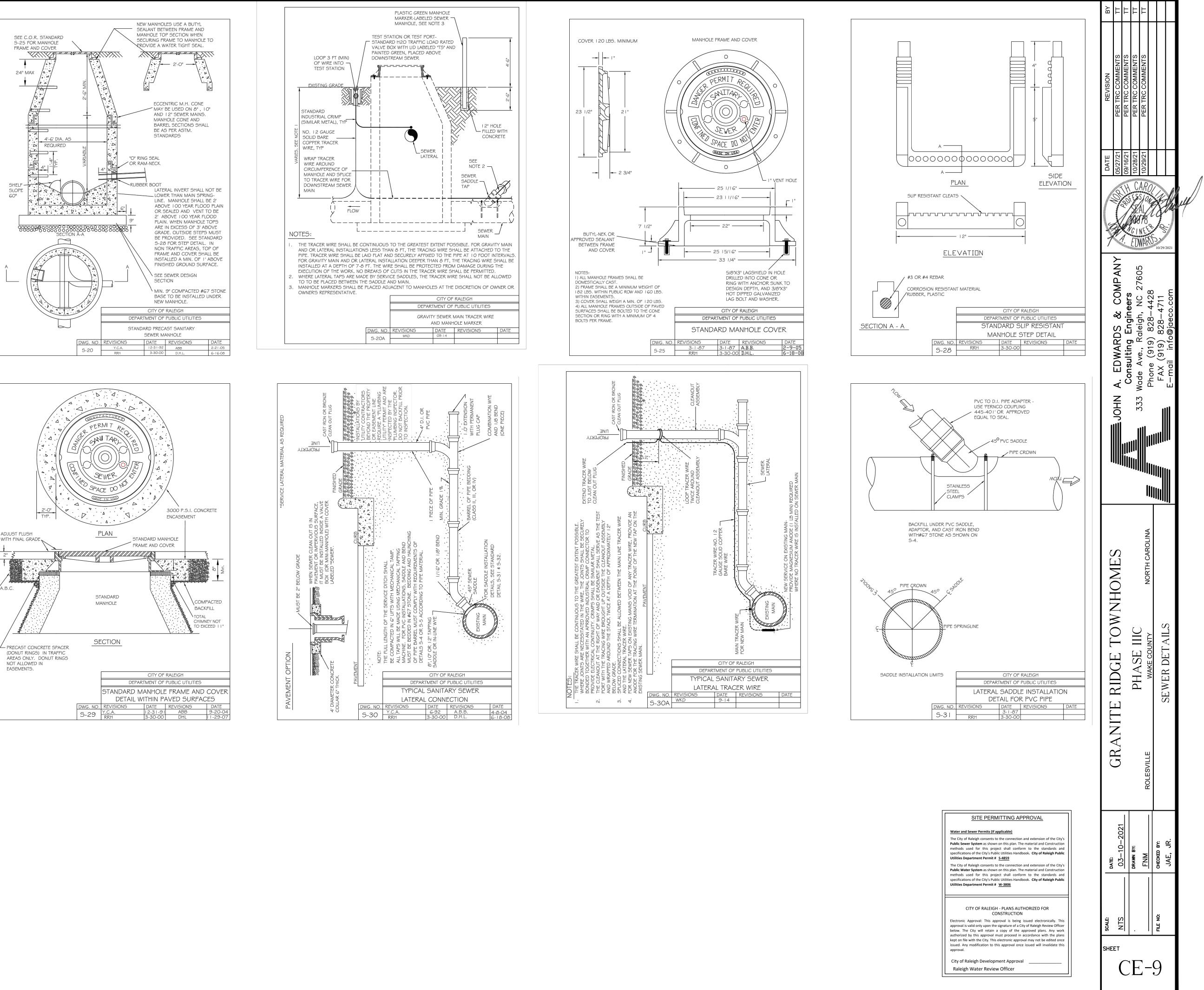


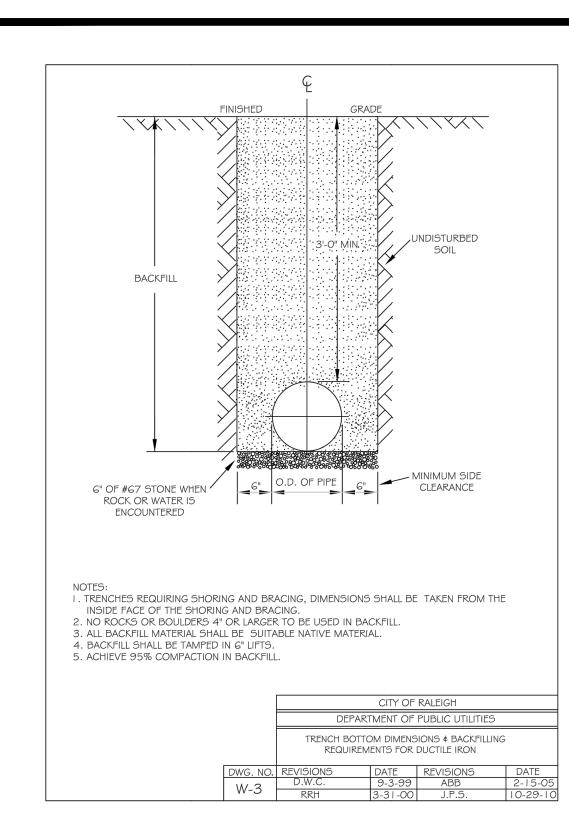


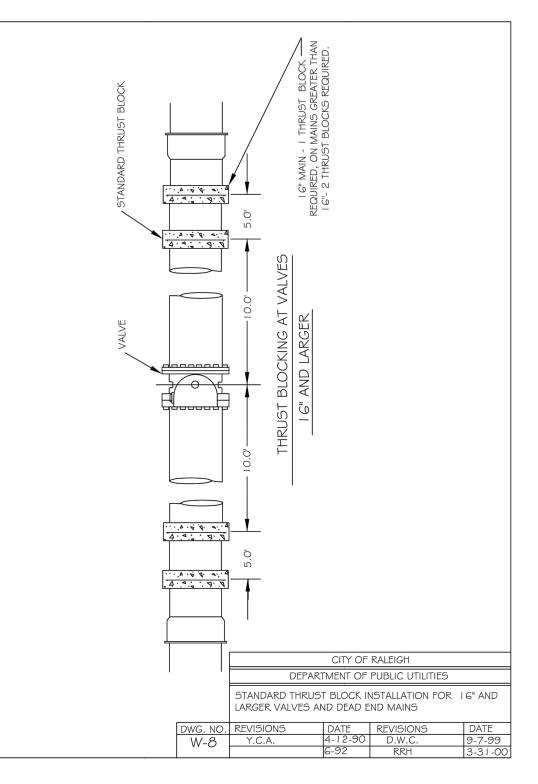


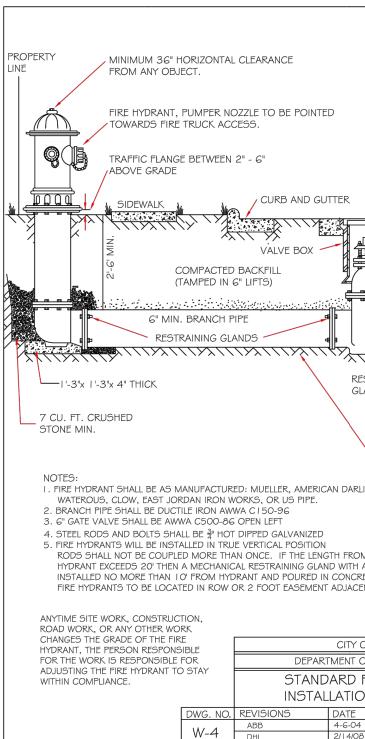


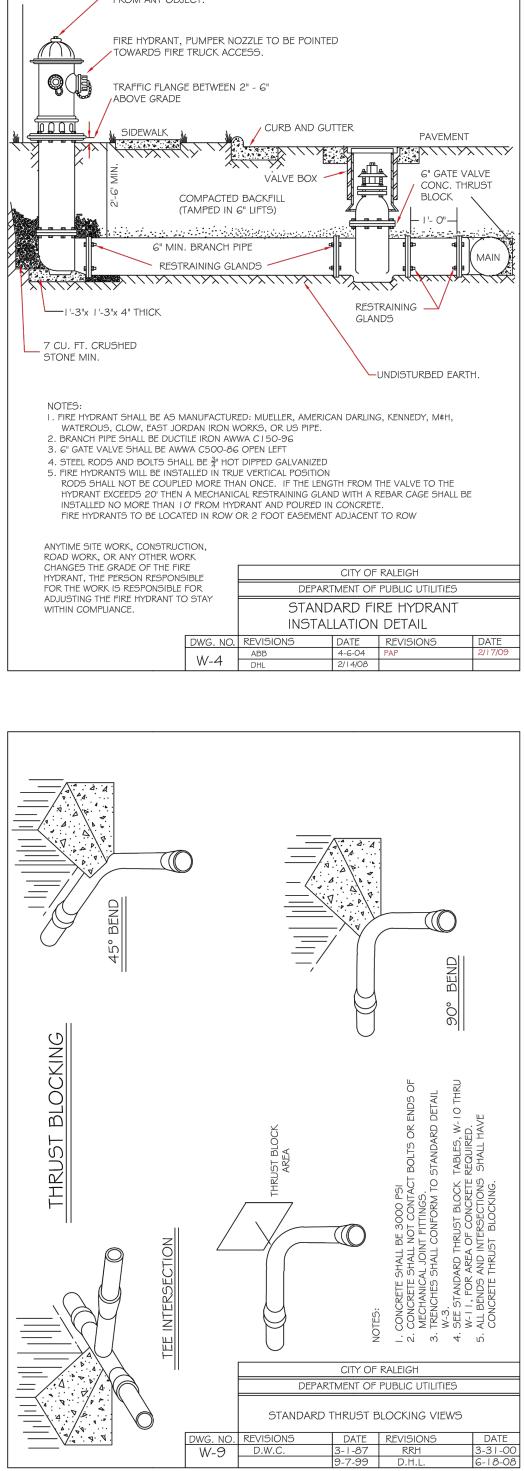


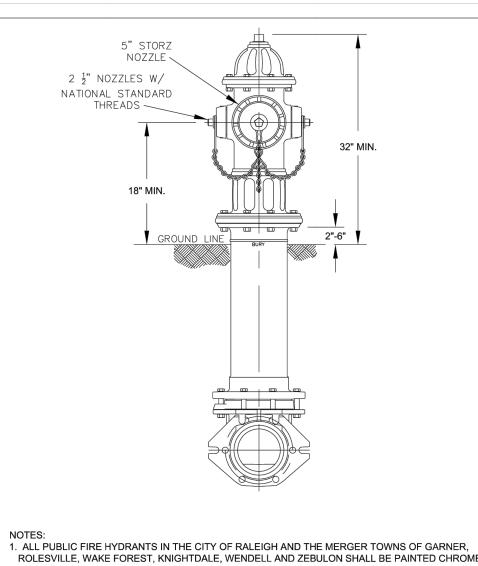




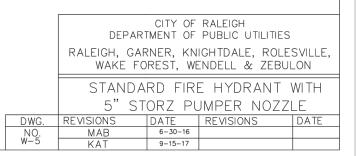


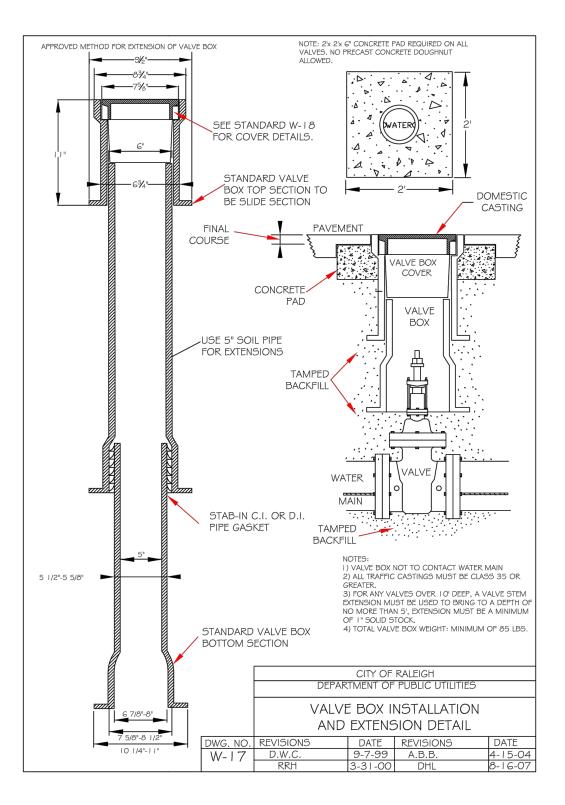


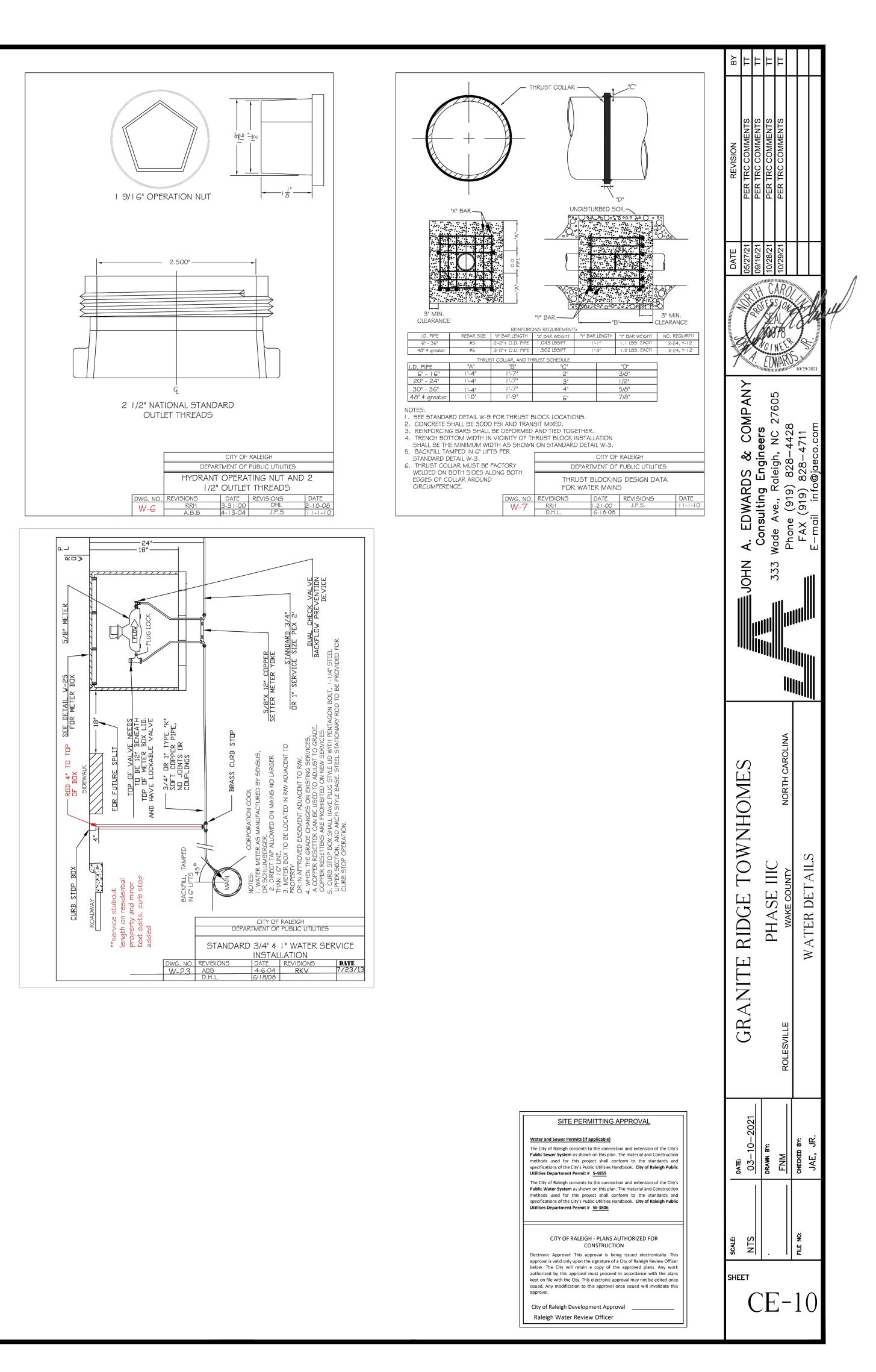


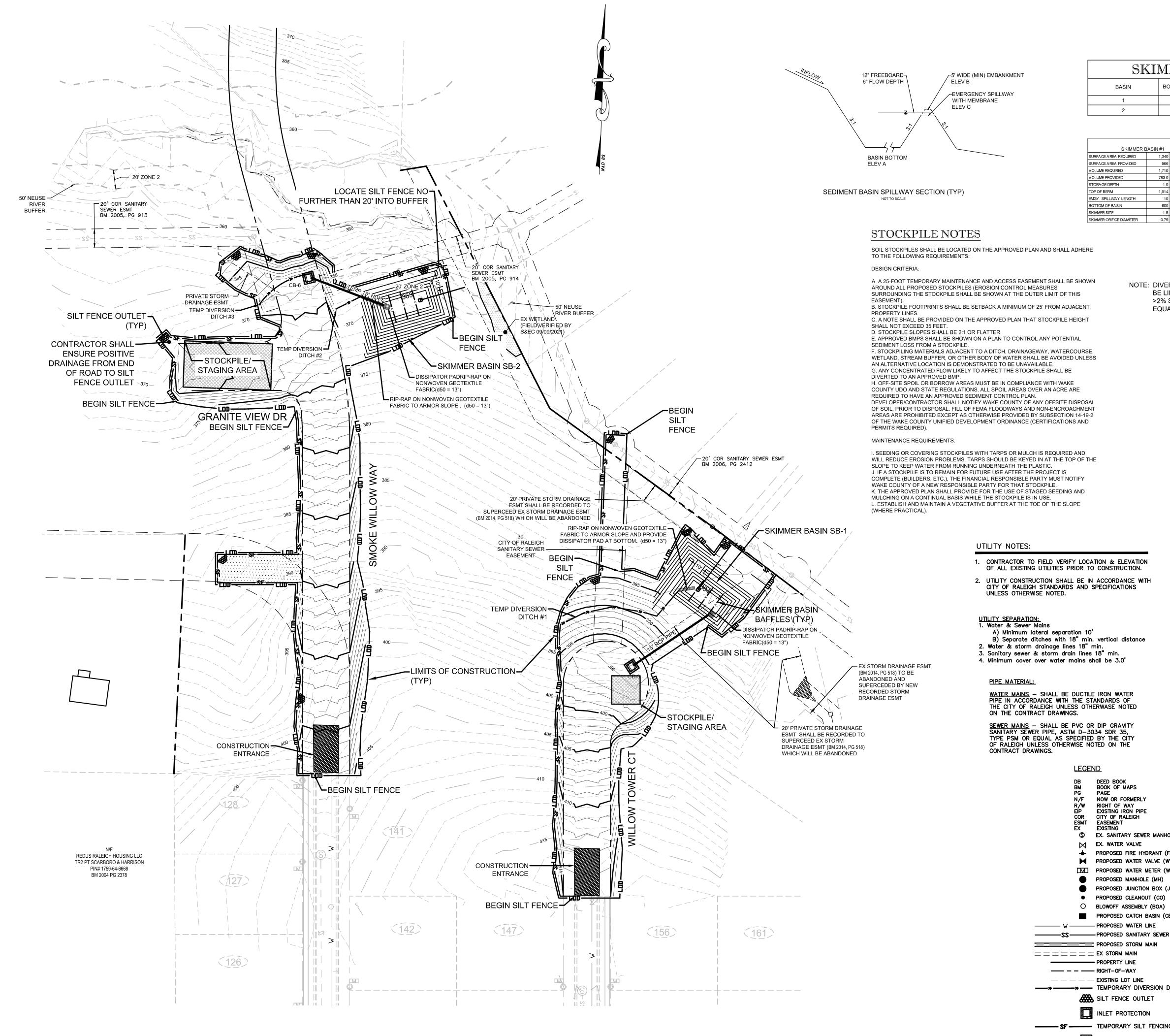


ROLESVILLE, WAKE FOREST, KNIGHTDALE, WENDELL AND ZEBULON SHALL BE PAINTED CHROME YELLOW WITH HIGH REFLECTIVE ALUMINUM SILVER CAPS, BONNETS AND OPERATING NUTS. 2. ALL PRIVATE FIRE HYDRANTS SHALL BE RED.









BASIN	BOTTOM ELEVATION (A)	EMBANKMENT ELEVATION (B)	EMERGENCY SPILLWAY ELEVATION (C)
1	384	388	387
2	363	367	366

SKIMMER BASIN #1					
E A REA REQUIRED	1,340	SF			
EAREA PROVIDED	966	SF	385.00		
REQUIRED	1,710	CF			
PROVIDED	783.0	CF			
E DEPTH	1.0	FT			
BERM	1,914	SF	387.00		
PILLWAY LENGTH	10	FT			
OFBASIN	600	SF	384.00		
RSIZE	1.5	IN			
R ORIFICE DIA METER	0.75	IN			

SKIMMER E	BASIN #2		
SURFACE A REA REQUIRED	2,208	SF	
SURFACE A REA PROVIDED	1,296	SF	364.00
VOLUME REQUIRED	3,420	CF	
VOLUME PROVIDED	1,080.0	CF	
STORAGE DEPTH	1.0	FT	
TOP OF BERM	2,376	SF	366.00
EMGY. SPILLWAY LENGTH	10	FT	
BOTTOM OF BASIN	864	SF	363.00
SKIMMER SIZE	2	IN	
SKIMMER ORIFICE DIA METER	1	IN	

NOTE: DIVERSIONS WITH A SLOPE OF <2% SHALL BE LINED WITH STRAW NETTING. SLOPES >2% SHALL BE LINED WITH EXCELSIOR OR EQUAL.

TOTAL DENUDED AREA = 2.5 ACRES

DEED BOOK BOOK OF MAPS NOW OR FORMERLY RIGHT OF WAY EXISTING IRON PIPE CITY OF RALEIGH EASEMENT EXISTING S EX. SANITARY SEWER MANHOLE EX. WATER VALVE + PROPOSED FIRE HYDRANT (FH) PROPOSED WATER VALVE (WV) PROPOSED WATER METER (WM) PROPOSED MANHOLE (MH) PROPOSED JUNCTION BOX (JB) PROPOSED CLEANOUT (CO) O BLOWOFF ASSEMBLY (BOA) PROPOSED CATCH BASIN (CB) SILT FENCE OUTLET INLET PROTECTION STOCKPILE/STAGING AREA

ATTENTION CONTRACTORS:

The Construction Contractor responsible for the extension of water, sewer, and/or reuse, as approved in these plans, is responsible for contacting the PUBLIC UTILITIES DEPARTMENT at (919) 996-4540 at least twenty four hours prior to beginning any of their construction. FAILURE to notify both City Departments in advance of beginning construction, will result in the issuance of monetary fines, and require reinstallation of any water or sewer facilities not inspected as a result of this notification failure. FAILURE to call for Inspection, Install a Downstream Plug, have Permitted Plans on the jobsite, or any other Violation of CITY OF RALEIGH STANDARDS will result in a Fine and Possible Exclusion from future work in the CITY OF RALEIGH.

LOT DEVELOPMENT NOTE

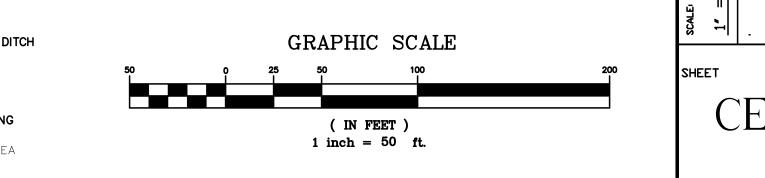
THE INTENT OF THIS EROSION CONTROL PLAN IS TO PROVIDE ADEQUATE EROSION PROTECTION WHILE PRODUCING PAD READY LOTS AND INSTALLING COMMON INFRASTRUCTURE SUCH AS ROADS AND UTILITIES. PRIOR TO CONSTRUCTION OF ACTUAL HOUSES, A SEPARATE LOT BY LOT PLANSET SHOULD BE PREPARED AND APPROVED BY OTHERS. THIS PLANSET IS NOT INTENDED TO PROVIDE LOT-BY-LOT EROSION CONTROL.

IMPERVIOUS AREA SUMMARY ROW 0.80 AC

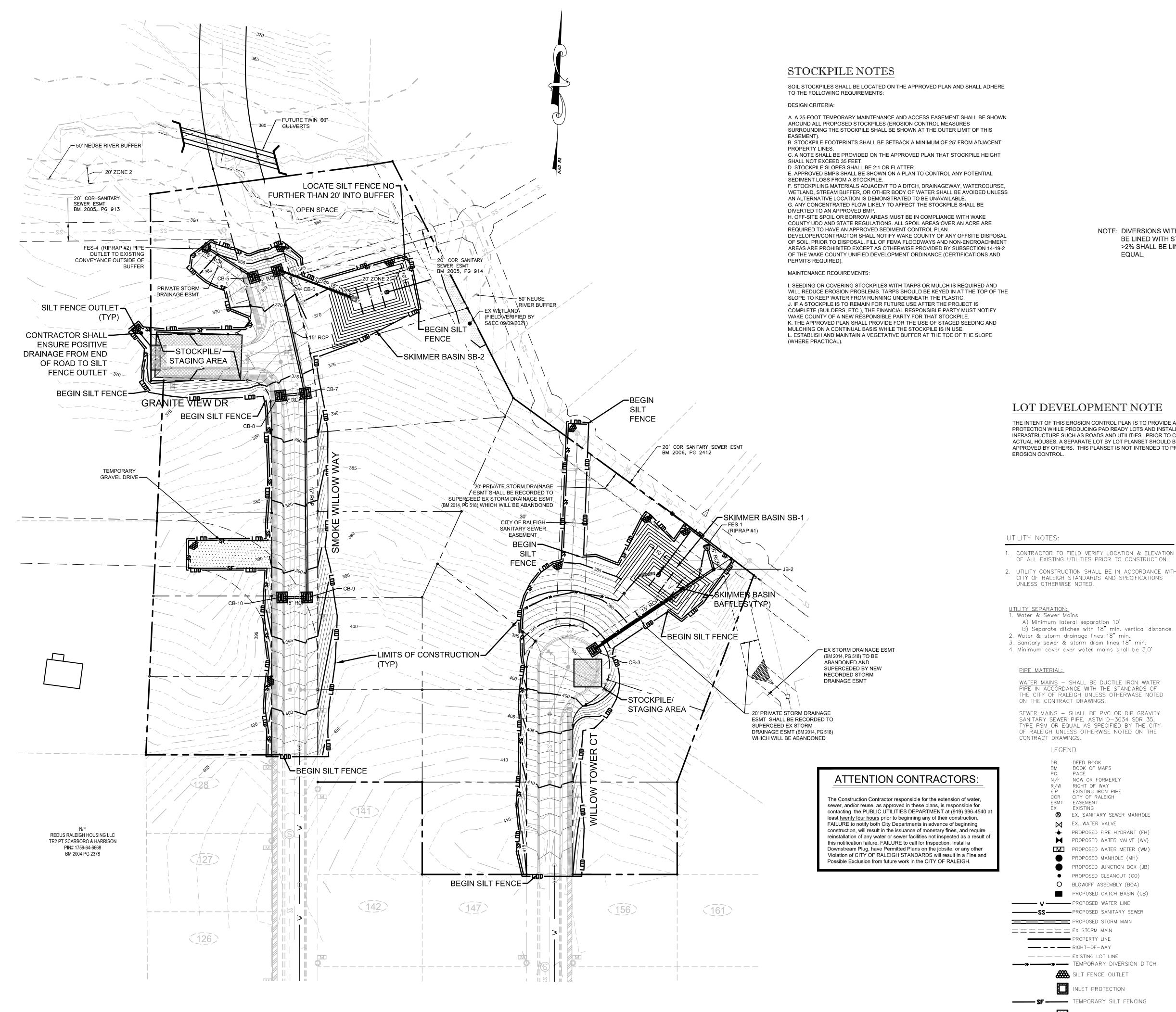
19 LOTS (5,000 SF MIA PER LOT)	2.18 AC	
TOTAL	2.98 AC	

Required Wake County Construction Sequence (PHASE 1)

- 1. Once the erosion and sediment control plan approval and NCG01 Certificate of Coverage are obtained, schedule a preconstruction conference with the Environmental Consultant. Obtain a land-disturbing permit.
- Install gravel construction pad, temporary diversions, silt fence, skimmer sediment basins, 15" RCP from SB-1 to CB-3, and 15" HDPE from SB-2 to CB-6, and/or other measures as shown on the approved plan. Clear only as necessary to install these devices. Seed temporary diversions, berms and basins immediately after construction.
- Call Environmental Consultant for an onsite inspection by the Environmental Consultant to obtain a Certificate of Compliance.
- 4. Begin clearing and grubbing. Maintain devices as needed. Rough grade site.
- 5. Begin phase 2 soil and erosion control plan.



ΒY	ТТ	Ш	TT	TT					
REVISION	PER TRC COMMENTS	PER TRC COMMENTS	PER TRC COMMENTS	PER TRC COMMENTS					
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VDAMOD & SUMANDA A HOL				333 Wo	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	🛁 📃 Fax: (919) 828-4711	E-mail: info@jaeco.com		
	GRANITE CREST SUBDIVISION		PHASE IIIC		WAKE COUNTY	DUACE I COIL & EDOCION CONTROL DI AN	FRAJE I JULL & ENUJUN CUNTRUL FLAIN		
DATE:	03-10-2021	00 10 COLI	DRAWN BY:	FNM		CHECKED BY:	JAE, JR.		
SCALE	1" = 50'		-			FILE ND:			
SHE	ет (\Box	E]-	-	1	1		





NOTE: DIVERSIONS WITH A SLOPE OF <2% SHALL BE LINED WITH STRAW NETTING. SLOPES >2% SHALL BE LINED WITH EXCELSIOR OR EQUAL.

TOTAL DENUDED AREA = 2.5 ACRES

LOT DEVELOPMENT NOTE

THE INTENT OF THIS EROSION CONTROL PLAN IS TO PROVIDE ADEQUATE EROSION PROTECTION WHILE PRODUCING PAD READY LOTS AND INSTALLING COMMON INFRASTRUCTURE SUCH AS ROADS AND UTILITIES. PRIOR TO CONSTRUCTION OF ACTUAL HOUSES, A SEPARATE LOT BY LOT PLANSET SHOULD BE PREPARED AND APPROVED BY OTHERS. THIS PLANSET IS NOT INTENDED TO PROVIDE LOT-BY-LOT

IMPERVIOUS AREA SUMMARY				
ROW	0.80 AC			
19 LOTS (5,000 SF MIA PER LOT)	2.18 AC			
TOTAL	2.98 AC			

OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. 2. UTILITY CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF RALEIGH STANDARDS AND SPECIFICATIONS B) Separate ditches with 18" min. vertical distance 3. Sanitary sewer & storm drain lines 18" min. 4. Minimum cover over water mains shall be 3.0' WATER MAINS – SHALL BE DUCTILE IRON WATER PIPE IN ACCORDANCE WITH THE STANDARDS OF THE CITY OF RALEIGH UNLESS OTHERWASE NOTED <u>SEWER MAINS</u> - SHALL BE PVC OR DIP GRAVITY SANITARY SEWER PIPE, ASTM D-3034 SDR 35, TYPE PSM OR EQUAL AS SPECIFIED BY THE CITY OF RALEIGH UNLESS OTHERWISE NOTED ON THE DEED BOOK BOOK OF MAPS PAGE N/F NOW OR FORMERLY R/W RIGHT OF WAY EXISTING IRON PIPE CITY OF RALEIGH EXISTING S EX. SANITARY SEWER MANHOLE EX. WATER VALVE ➡ PROPOSED FIRE HYDRANT (FH) PROPOSED WATER VALVE (WV) PROPOSED WATER METER (WM) PROPOSED MANHOLE (MH) PROPOSED JUNCTION BOX (JB) PROPOSED CLEANOUT (CO) O BLOWOFF ASSEMBLY (BOA) PROPOSED CATCH BASIN (CB) PROPERTY LINE

SILT FENCE OUTLET

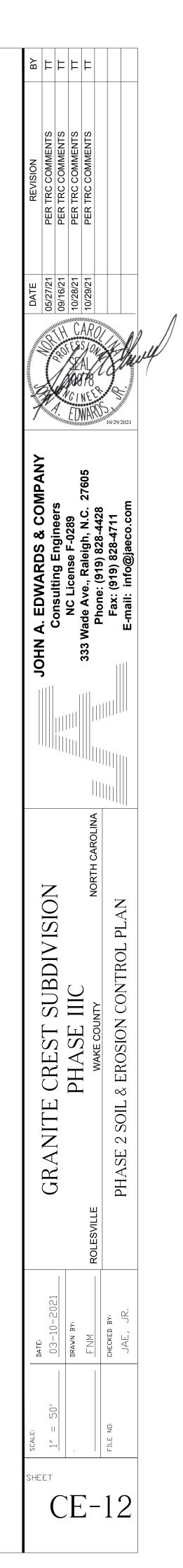
INLET PROTECTION

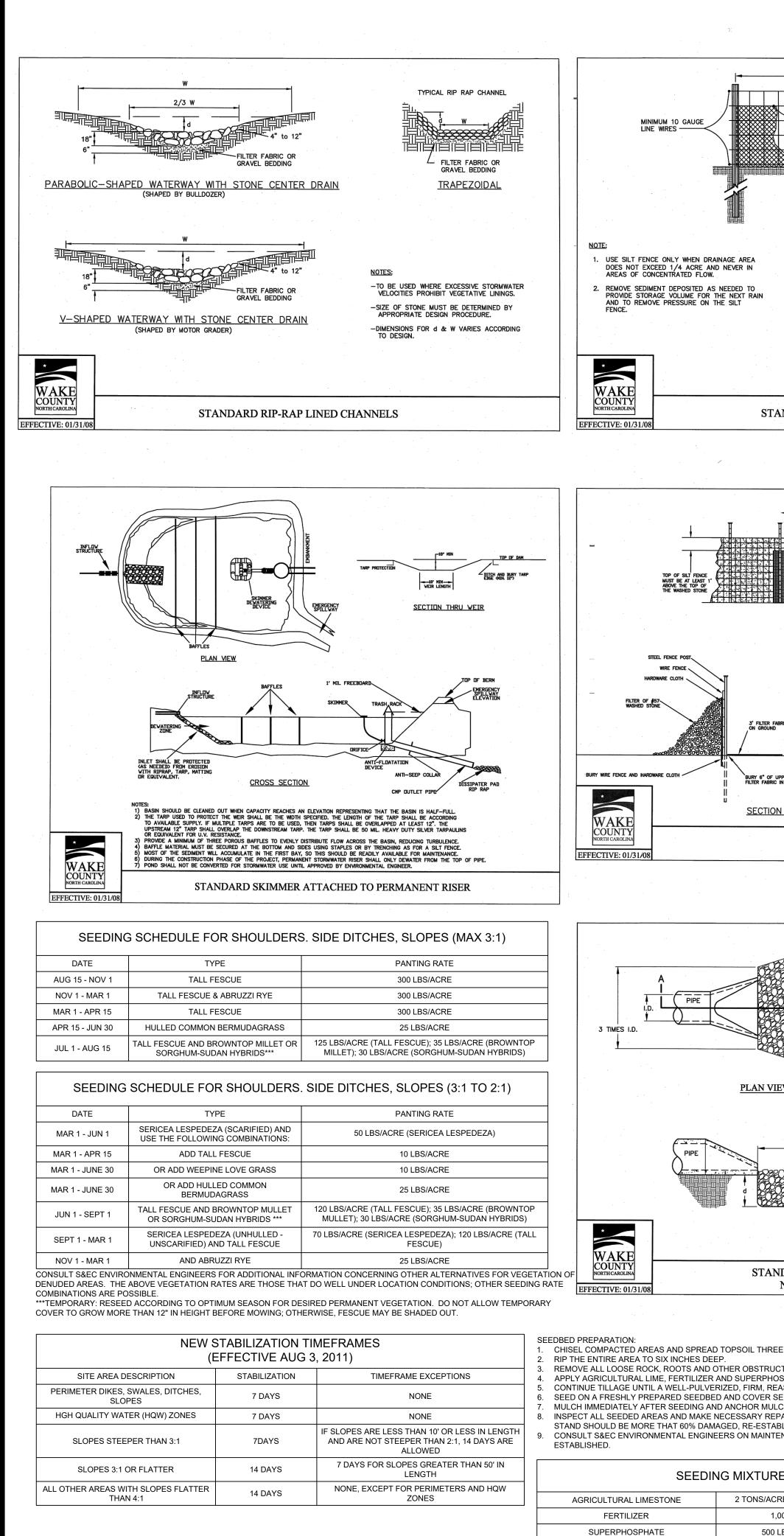
STOCKPILE/STAGING AREA

- **Required Wake County Construction Sequence** (PHASE 2) Maintain all erosion control measures installed for phase 1, and/or other measures
- as shown on the approved plan. Seed temporary diversions, berms and basins immediately after construction.
- Install remaining utility systems and stormwater collection system and protect inlets with block and gravel inlet controls, sediment traps or other approved measures as shown on the plan. Begin construction, building, etc.
- Block invert out of CB-6 to CB-5 until basin is ready for removal. Stabilize site as areas are brought up to finish grade with vegetation, paving, ditch
- linings, etc. Seed and mulch denuded areas per Ground Stabilization Time Frames. Schedule a site meeting with the Environmental Consultant to determine if a
- basin can be removed or converted to a permanent stormwater pond. Install silt fencing or other temporary erosion control measures as needed prior to removal of the basin.
- Contact NCDEQ Raleigh Regional Office (919) 791-4200 to determine the Division of Energy, Mineral and Land Resources contact person to receive dewatering notifications. At least 10 days prior to beginning dewatering activity, send Email to NCDEQ-DEMLR contact person and copy Environmental consultant that met you onsite. The email should include: E&SC Jurisdiction: Wake County
- Wake County Project: Name, Number
- Location (city/town)
- Environmental Consultant Name
- and address the following:
- a)Reason for conversion
- b)Basin#
- c)Dewatering method, and
- d) all other necessary info from Part II, Section G, Item 4 of the NCG01. (keep email for your NPDES monitoring documentation)
- After receiving positive confirmation from NCDEQ-DEMLR that you may remove the basin OR on > Day 11, whichever is sooner. Remove Basin(s) and associated temporary diversion ditches. If pipes need to be extended, perform this operation at this time. Remove blocking from CB-6 to CB-5. Fine grade area in preparation for seeding.
- Perform seedbed preparation, seed, mulch and asphalt tack any resulting bare areas immediately.
- Install velocity dissipators and/or level spreaders as required on the Erosion Control Plan.
- 10. When site is fully stabilized, call Environmental Consultant for approval of removing remaining temporary erosion control measures and advice on when site can be issued a Certificate of Completion. Note: A meeting should also be scheduled with the Environmental Consultant to determine when a basin may be converted for stormwater use. Some municipalities may also require this.

GRAPHIC SCALE

(IN FEET) 1 inch = 50 ft.





FRONT_VIEW	FLDAT
AINAGE AREA ND NEVER IN	DUTLET END CONNECTION TO DUTLET PIPE OR RISER BARREL PIPE LONGER THAN SHOWN.
S NEEDED TO THE NEXT RAIN THE SILT	
6" MINIMUM COVER	
ANCHOR SKIRT AS DIRECTED BY ENGINEER *	
SIDE VIEW	WAKE
STANDARD TEMPORARY SILT FENCE	EFFECTIVE: 01/31/08
SILT FENCE	
	- NOTES:
	 TEMPORARY DIVERSION DITCH TO BE USED TO INTERCEPT FLOW AND/OR DIVERT TO A SEDIMENT CONTROL MEASURE OR BMP. SILT SHALL BE REMOVED WHEN DITCH IS ONE-HALF FULL. DITCH SHALL BE RECONSTRUCTED WHEN DAMAGED BY EQUIPMENT OR COVERED BY FILL.
	4. STABILIZE DIVERSION DITCH BERM WITH TEMPORARY SEEDING, MULCH WITH TAC, AND/OR EROSION CONTROL NETTING.
FRONT VIEW	
STEEL FENCE POST SET MAX 2' APART MIN. 18' INTO SOLID	WASTE MATERIAL-COMPACT, SEED & MULCH AFTER CONSTRUCTION OF DITCH
ROUND INTO SOLID	
Set 3' FILTER FABRIC ON GROUND NOTES: 1 REMOVE SEDIMENT WHEN HALE OF STONE OUTLET IS COVERED	
1. REMOVE SEDIMENT WHEN HALF OF STONE OUTLET IS COVERED. 2. REPLACE STONE AS NEEDED TO ENSURE DEWATERING.	CROSS SECTIONAL VIEW
II BURY 6* OF UPPER EDGE OF FILTER FABRIC IN TRENCH U	
SECTION VIEW	WAKE
STANDARD SILT FENCE OUTLET	WAKE COUNTY NORTH CAROLINA EFFECTIVE: 01/31/08 STANDARD TEMPORARY DIVERSION DITCH
	STANDARD METAL POSTS 2'-0" IN GROUND
	GALVANIZED HARDWARE WIRE EXTENDS TO TOP OF BOX
PLAN VIEW NOTES:	
 L = THE LENGTH OF THE RIPRAP APRON. d = 1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6" (INCHES). 	
3. A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND SOIL FOUNDATION.	
	1. INSPECT INLET PROTECTION AND REMOVE SEDIMENT AFTER EACH RAIN EVENT. GRAVEL SHOULD BE REPLACED AND REPAIRS MADE AS NEEDED. # 57 WASHED STONE PLACED TO A HEIGHT OF 12"-18" MINIMUM ABOVE TOP
Filter Fabric	
STANDARD PIPE OUTLET TO FLAT AREA	WAKE COUNTY NORTHCAROLINA
NO WELL-DEFINED CHANNEL	STANDARD GRAVEL YARD INLET PROTECTION EFFECTIVE: 01/31/08
D TOPSOIL THREE INCHES DEEP OVER ADVERSE SOIL CONDITIONS, IF AVAILABLE. EP.	
OTHER OBSTRUCTIONS, LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM. AND SUPERPHOSPHATE UNIFORMLY AND MIX WITH SOIL (SEE MIXTURE BELOW). RIZED, FIRM, REASONABLY UNIFORM SEEDBED IS PREPARED FOR TO SIX INCHES DEEP.	
ED AND COVER SEED LIGHTLY WITH SEEDING EQUIPMENT OR CULTIPACK AFTER SEEDING. ND ANCHOR MULCH. NECESSARY REPAIRS OR RESEEDINGS WITHIN THE PLANTING SEASON, IF POSSIBLE. IF	
IAGED, RE-ESTABLISH FOLLOWING THE ORIGINAL LIME, FERTILIZER AND SEEDING RATES. EERS ON MAINTENANCE TREATMENT AND FERTILIZATION AFTER PERMANENT COVER IS	
NG MIXTURE	
2 TONS/ACRE (3 TONS/ACRE IN CLAY SOILS)	
1,000 LBS/ACRE - 10-10-10 500 LBS/ACRE - 20% ANALYSIS	
2 TONS/ACRE - SMALL GRAIN STRAW	

2 TONS/ACRE - SMALL GRAIN STRAW ASPHALT EMULSION AT 300 GALS/ACRE

8'-0" MAXIMUM

-SILT FENCE FABRIC | INSTALLED TO SECOND

WIRE FROM TOP

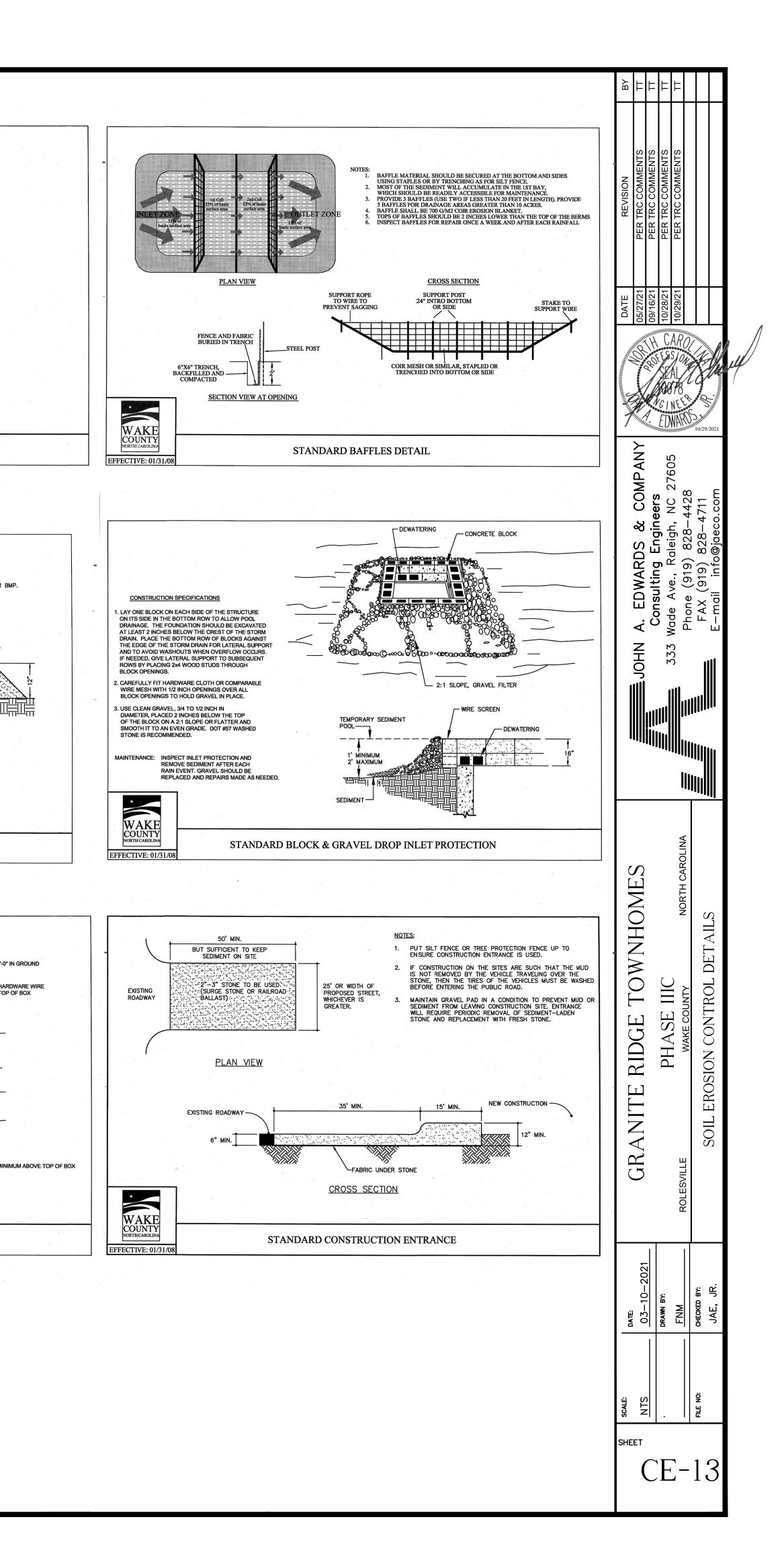
MINIMUM 12-1/2 GAUGE

GRADE

SCREEN ACCESSIBLE THROUGH DOOR

MULCH

ANCHOR



GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WI THE NCG01 CONSTRUCTION GENERAL PERMIT

Implementing the details and specifications on this plan sheet will result in the constructi activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction.

	Re	equired Ground Stabil	ization Timeframes	
Si	te Area Description	Stabilize within this many calendar days after ceasing land disturbance	Timeframe variations	
(a)	Perimeter dikes, swales, ditches, and perimeter slopes	7	None	
(b)	High Quality Water (HQW) Zones	7	None	
(c)	Slopes steeper than 3:1	7	If slopes are 10' or less in length and a not steeper than 2:1, 14 days are allowed	
(d)	Slopes 3:1 to 4:1	14	 -7 days for slopes greater than 50' in length and with slopes steeper than 4 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed 	
(e)	Areas with slopes flatter than 4:1	14	 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zo -10 days for Falls Lake Watershed unle there is zero slope 	

Note: After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.

GROUND STABILIZATION SPECIFICATION

Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the techniques in the table below:

Temporary Stabilization	Permanent Stabilization
 Temporary grass seed covered with straw or other mulches and tackifiers Hydroseeding Rolled erosion control products with or without temporary grass seed Appropriately applied straw or other mulch Plastic sheeting 	 Permanent grass seed covered with straw or other mulches and tackifiers Geotextile fabrics such as permanent soil reinforcement matting Hydroseeding Shrubs or other permanent plantings covered with mulch Uniform and evenly distributed ground cover sufficient to restrain erosion Structural methods such as concrete, asphalt or retaining walls Rolled erosion control products with grass seed

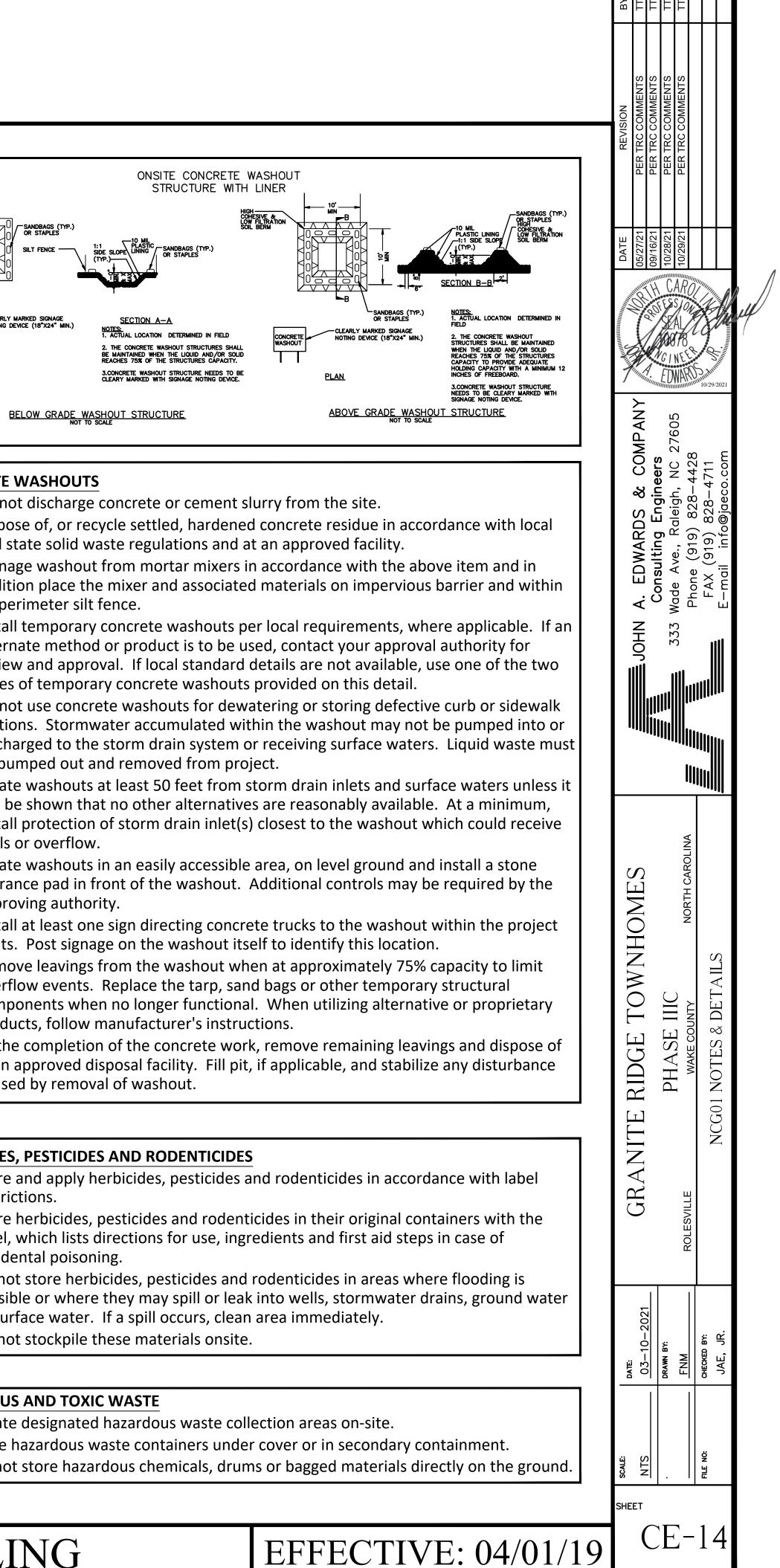
POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

1. Select flocculants that are appropriate for the soils being exposed during construction, selecting from the NC DWR List of Approved PAMS/Flocculants.

- Apply flocculants at or before the inlets to Erosion and Sediment Control Measures
 Apply flocculants at the concentrations specified in the NC DWR List of Approved
- *PAMS/Flocculants* and in accordance with the manufacturer's instructions.
 4. Provide ponding area for containment of treated Stormwater before discharging offsite.
- Store flocculants in leak-proof containers that are kept under storm-resistant cove or surrounded by secondary containment structures.

EQU	IPMENT AND VEHICLE MAINTENANCE		
1.	Maintain vehicles and equipment to prevent discharge of fluids.		
2.	Provide drip pans under any stored equipment.		
3.	Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.		
4.	Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).		
5.	Remove leaking vehicles and construction equipment from service until the problem has been corrected.	CONCRETE	CLEA
6.	Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.		<u>Plan</u>
.ITTE	R, BUILDING MATERIAL AND LAND CLEARING WASTE		
1.	Never bury or burn waste. Place litter and debris in approved waste containers.		
2.	Provide a sufficient number and size of waste containers (e.g dumpster, trash receptacle) on site to contain construction and domestic wastes.	<u>CON</u>	ICRET Do
3.	Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.	2.	Dispand
4.	Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland.	3.	Ma
5.	Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.	4.	lot Inst
6.	Anchor all lightweight items in waste containers during times of high winds.		alte
7.	Empty waste containers as needed to prevent overflow. Clean up immediately if		revi
-	containers overflow.		typ
8.	Dispose waste off-site at an approved disposal facility.	5.	Do
9.	On business days, clean up and dispose of waste in designated waste containers.		sec disc be j
	IT AND OTHER LIQUID WASTE	6.	Loc
1. 2	Do not dump paint and other liquid waste into storm drains, streams or wetlands.		can
2.	Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.		inst
3.	Contain liquid wastes in a controlled area.		spil
4.	Containment must be labeled, sized and placed appropriately for the needs of site.	7.	Loc ent
5.	Prevent the discharge of soaps, solvents, detergents and other liquid wastes from		app
	construction sites.	8.	Inst
PORT	TABLE TOILETS		limi
1.	Install portable toilets on level ground, at least 50 feet away from storm drains,	9.	Ren
	streams or wetlands unless there is no alternative reasonably available. If 50 foot		ove con
	offset is not attainable, provide relocation of portable toilet behind silt fence or place		pro
2	on a gravel pad and surround with sand bags.	10	. At t
2.	Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas.		in a
3.	Monitor portable toilets for leaking and properly dispose of any leaked material.		cau
	Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace		
	with properly operating unit.	HER	BICID
		1.	Stor
	THEN STOCKPILE MANAGEMENT		rest
1.	Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls	2.	Sto
	and surface waters unless it can be shown no other alternatives are reasonably		labe
	available.	3.	acci
2.	Protect stockpile with silt fence installed along toe of slope with a minimum offset of	5.	Do i pos:
	five feet from the toe of stockpile.		or s
3.	Provide stable stone access point when feasible.	4.	Doı
4.	Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined	<u> </u>	
	with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated		
	erosion on disturbed soils for temporary or permanent control needs.		ARDO
		1.	Crea
		2.	Plac
			Do r

NCG01 GROUND STABILIZATION AND MATERIALS HANDLING



PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION A: SELF-INSPECTION

Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection may be delayed until the next business day on which it is safe to perform the inspection. In addition, when a storm event of equal to or greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be performed upon the commencement of the next business day. Any time when inspections were delayed shall be noted in the Inspection Record.

	Frequency	
Inspect	(during normal	Inspection records must include:
mspeer	business hours)	
(1) Rain gauge	Daily	Daily rainfall amounts.
maintained in	Dany	If no daily rain gauge observations are made during weekend or
good working		holiday periods, and no individual-day rainfall information is
order		available, record the cumulative rain measurement for those un-
		attended days (and this will determine if a site inspection is
		needed). Days on which no rainfall occurred shall be recorded as
		"zero." The permittee may use another rain-monitoring device
		approved by the Division.
(2) E&SC	At least once per	1. Identification of the measures inspected,
Measures	7 calendar days	 Date and time of the inspection,
	and within 24	3. Name of the person performing the inspection,
	hours of a rain	4. Indication of whether the measures were operating
	event > 1.0 inch in	properly,
	24 hours	5. Description of maintenance needs for the measure,
	24 110013	6. Description, evidence, and date of corrective actions taken.
(3) Stormwater	At least once per	1. Identification of the discharge outfalls inspected,
discharge	7 calendar days	2. Date and time of the inspection,
outfalls (SDOs)	and within 24	3. Name of the person performing the inspection,
	hours of a rain	4. Evidence of indicators of stormwater pollution such as oil
	event \geq 1.0 inch in	sheen, floating or suspended solids or discoloration,
	24 hours	5. Indication of visible sediment leaving the site,
		6. Description, evidence, and date of corrective actions taken.
(4) Perimeter of	At least once per	If visible sedimentation is found outside site limits, then a record
site	7 calendar days	of the following shall be made:
	and within 24	1. Actions taken to clean up or stabilize the sediment that has left
	hours of a rain	the site limits,
	event \geq 1.0 inch in	2. Description, evidence, and date of corrective actions taken, and
	24 hours	3. An explanation as to the actions taken to control future
		releases.
(5) Streams or	At least once per	If the stream or wetland has increased visible sedimentation or a
wetlands onsite	7 calendar days	stream has visible increased turbidity from the construction
or offsite	and within 24	activity, then a record of the following shall be made:
(where	hours of a rain	1. Description, evidence and date of corrective actions taken, and
accessible)	event \geq 1.0 inch in	2. Records of the required reports to the appropriate Division
	24 hours	Regional Office per Part III, Section C, Item (2)(a) of this permit.
(6) Ground	After each phase	1. The phase of grading (installation of perimeter E&SC
stabilization	of grading	measures, clearing and grubbing, installation of storm
measures		drainage facilities, completion of all land-disturbing
		activity, construction or redevelopment, permanent
		ground cover).
		2. Documentation that the required ground stabilization
		measures have been provided within the required
		timeframe or an assurance that they will be provided as
		soon as possible.

NOTE: The rain inspection resets the required 7 calendar day inspection requirement.

PAR DRAW DOWN OF SEDIMEN

Sediment basins and traps that receive runoff from drainage areas of one acre or more shall use outlet structures that withdraw water from the surface when these devices need to be drawn down for maintenance or close out unless this is infeasible. The circumstances in which it is not feasible to withdraw water from the surface shall be rare (for example, times with extended cold weather). Non-surface withdrawals from sediment basins shall be allowed only when all of the following criteria have been met:

- shall not commence until the E&SC plan authority has approved these items,
- (b) The non-surface withdrawal has been reported as an anticipated bypass in accordance with Part III, Section C, Item (2)(c) and (d) of this permit,
- (c) Dewatering discharges are treated with controls to minimize discharges of pollutants from stormwater that is removed from the sediment basin. Examples of appropriate controls include properly sited, designed and maintained dewatering tanks, weir tanks, and filtration systems,
- (d) Vegetated, upland areas of the sites or a properly designed stone pad is used to the extent feasible at the outlet of the dewatering treatment devices described in Item (c) above,
- Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices, and (e)

NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

SELF-INSPECTION, REC	PART III CORDKEEPING AND REPORTING	
approved E&SC plan must be kept up-to-o	oproved deviation shall be kept on the site. The date throughout the coverage under this permit. IC plan shall be kept on site and available for ness hours.	SECTION C: REPO 1. Occurrences th Permittees shal (a) Visible sedi
Item to Document	Documentation Requirements	(b) Oil spills if:
(a) Each E&SC measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&SC plan.	Initial and date each E&SC measure on a copy of the approved E&SC plan or complete, date and sign an inspection report that lists each E&SC measure shown on the approved E&SC plan. This documentation is required upon the initial installation of the E&SC measures or if the E&SC measures are modified after initial installation.	 They are They are They cau They are They are (c) Releases or of the Clear
(b) A phase of grading has been completed.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate completion of the construction phase.	(Ref: 40 CF (d) Anticipated
(c) Ground cover is located and installed in accordance with the approved E&SC plan.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.	(e) Noncompli environme
(d) The maintenance and repair requirements for all E&SC measures have been performed.	Complete, date and sign an inspection report.	2. Reporting Time After a permitt
(e) Corrective actions have been taken to E&SC measures.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate the completion of the corrective action.	the appropriate other requirem reported to the 858-0368.
 site and available for inspectors at all time Division provides a site-specific exemption this requirement not practical: (a) This General Permit as well as the Cer (b) Records of inspections made during the record the required observations on t 	Site bove, the following items shall be kept on the es during normal business hours, unless the in based on unique site conditions that make rtificate of Coverage, after it is received. The previous twelve months. The permittee shall he Inspection Record Form provided by the hat includes all the required elements. Use of	Occurrence (a) Visible sedime deposition in a stream or wetlan
· · · · · ·	of the required paper copies will be allowed if	(b) Oil spills and release of hazardous
•	Years I inspection records shall be maintained for a period d made available upon request. [40 CFR 122.41]	substances per It 1(b)-(c) above (c) Anticipated bypasses [40 CFR 122.41(m)(3)]
TION G, ITEM (4) NS FOR MAINTENANCE OR CLOSE OUT		(d) Unanticipate bypasses [40 CF 122.41(m)(3)] (e) Noncompliar

(a) The E&SC plan authority has been provided with documentation of the non-surface withdrawal and the specific time periods or conditions in which it will occur. The non-surface withdrawal

Sediment removed from the dewatering treatment devices described in Item (c) above is disposed of in a manner that does not cause deposition of sediment into waters of the United States.

