CONSTRUCTION DRAWINGS FOR

STONE BRIDGE RESIDENTIAL SUBDIVISION

LOCATED IN

HIAWASSEE TOWNSHIP CLAY COUNTY, NORTH CAROLINA

OWNER & DEVELOPER:

BROWN HAVEN HOMES
837 HWY 400
SUITE 105
DAWSONVILLE, GA 30534
(706) 970-2456
john@brownhavenhomes.com

24 HOUR CONTACT:

JOHN ALLEN (706) 970-2456 john@brownhavenhomes.com

ENGINEERING CONTACT:

Rochester DCCM
MICHAEL STREAM, P.E.
(770) 718-0600
mstream@dccm.com

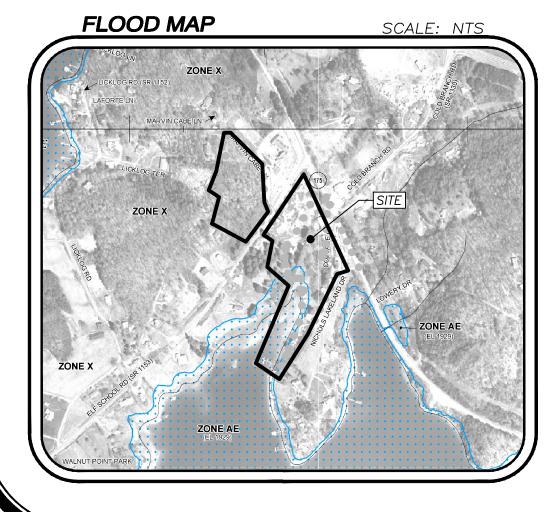
SURVEY CONTACT:

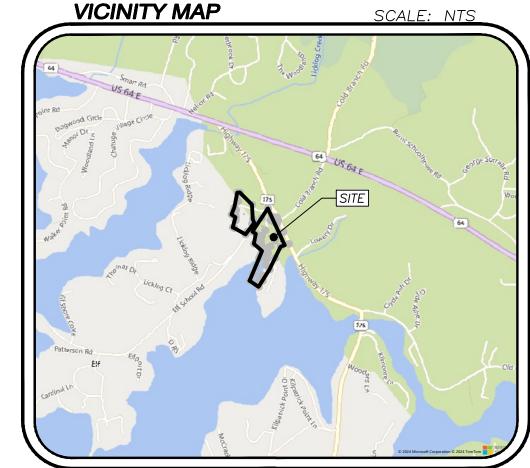
Rochester DECM
JARROD BLACK, P.L.S.
(770) 718-0600
jblack@dccm.com

CONSTRUCTION SCHEDULE 1st Month 2nd Month 3rd Month 4th Month 5th Month 6th Month 7th Month 8th Month MAINTAIN ALL EROSION CONTROL BMPs INSTALL PHASE 1 EROSION CONTROL BMPs CLEARING & GRUBBING INSTALL PHASE 2 EROSION CONTROL BMPs GRADING STORM & SANITARY SEWERS CURB & GUTTER INSTALL PHASE 3 EROSION CONTROL BMPs WATER LINES PAVING PERMANENT VEGETATION & LANDSCAPING

NC 811 ORG

PORTIONS OF THIS PROPERTY ARE LOCATED IN A FLOOD HAZARD ZONE "AE" AS PER F.E.M.A. INSURANCE RATE MAP OF CLAY COUNTY, NORTH CAROLINA. COMMUNITY PANEL NO. 3700548900J EFFECTIVE DATE NOVEMBER 19, 2008.

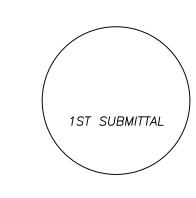




PROPOSED DEVELOPMENT BY: BROWN HAVEN HOMES



425 Oak St NW, Gainesville, GA 30501 770.718.0600 p | 770.718.9090 f rochester.dccm.com



TAX PARCEL ID: 548901284729, 548901293357, 548901292054, & 548901199661 G224096.TNM 04/28/25

NO.	DATE	DESCRIPTIONS
		REVISIONS

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GENERAL SITE NOTES:

1. "PRIOR TO STARTING CONSTRUCTION CONTRACTOR SHALL BE RESPONSIBLE TO MAKE SURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES."

2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE REQUIREMENTS AND STANDARDS OF THE LOCAL GOVERNING AUTHORITY.

3. THE RIGHT OF WAY INFORMATION, TOPOGRAPHY, UTILITIES, AND PHYSICAL FEATURES WERE TAKEN FROM A TOPOGRAPHIC SURVEY AND BOUNDARY PLAT CONDUCTED BY ROCHESTER & ASSOCIATES, INC. FIELD DATA WAS COLLECTED IN AUGUST OF 2024.

4. THE LOCATIONS OF UNDERGROUND FACILITIES SHOWN ON THIS PLAN ARE BASED ON FIELD SURVEYS AND LOCAL UTILITY COMPANY RECORDS. IT SHALL BE THE CONTRACTOR'S FULL RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES TO LOCATE THEIR FACILITIES PRIOR TO STARTING CONSTRUCTION. NO ADDITIONAL COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR DAMAGE AND REPAIR TO THESE FACILITIES CAUSED BY HIS WORK FORCE.

5. ALL DIMENSIONS AND GRADES SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE OWNER'S CONSTRUCTION MANAGER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN OR GRADE CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.

6. ALL DIMENSIONS ARE TO THE BACK OF CURB UNLESS OTHERWISE

7. ANY CHANGES OR ALTERATIONS MADE TO THESE CONSTRUCTION DRAWINGS WITHOUT THE WRITTEN APPROVAL OF ROCHESTER AND ASSOCIATES, INC. VOIDS THE SEAL SHOWN HEREON AND ANY LIABILITY ASSOCIATED WITH THIS PROJECT. THE ORIGINAL DRAWINGS ARE KEPT ON FILE FOR VERIFICATION OF ANY CHANGES.

8. ALL CONSTRUCTION SHALL CONFORM TO CURRENT APPLICABLE CLAY COUNTY STANDARDS AND SPECIFICATIONS.

9. SITE IS LOCATED IN HIAWASSEE TOWNSHIP, CLAY COUNTY, NORTH

10. PROPOSED USE: 3 NEW DOCKS, LAKE DREDGING, 18 ATTACHED SINGLE FAMILY UNITS, AND 43 DETACHED SINGLE FAMILY UNITS.

11. DEVELOPER: BROWN HAVEN HOMES

12. CONTRACTOR SHALL NOTIFY CLAY COUNTY 24 HOURS BEFORE THE BEGINNING OF EVERY PHASE OF CONSTRUCTION.

13. UTILITY SERVICE:
GAS — TBD
WATER — TBD
COMM. — TBD
POWER — TBD

14. 24 HOUR CONTACT: JOHN ALLEN
MOBILE: (706) 970-2456 EMAIL: JOHN@BROWNHAVENHOMES.COM

15. ENGINEERING CONTACT: MICHAEL STREAM, P.E., (770) 718-0600

16. PORTIONS OF THIS PROPERTY ARE LOCATED IN A FLOOD HAZARD ZONE "AE" AS PER F.E.M.A. INSURANCE RATE MAP OF CLAY COUNTY, NORTH CAROLINA. COMMUNITY PANEL NO. 3700548900J EFFECTIVE DATE NOVEMBER 19, 2008.

17. THERE ARE STREAMS AND WETLANDS ON OR WITHIN 200' OF THE

18. THERE ARE NO STREAMS REQUIRING STATE OR LOCAL BUFFERS ON OR WITHIN 200' OF THE PROJECT SITE.

19. THIS SITE DOES NOT CONTAIN ANY KNOWN CEMETERIES.

20. ALL RETAINING WALLS WILL BE PERMITTED SEPARATELY.

21. ALL LIGHTING WILL BE LOW LEVEL AND NON—SPILL.

22. ALL PLANT MATERIAL CONFORMING TO AMERICAN STANDARD FOR

EROSION CONTROL NOTES:

1. DESCRIPTION: 3 NEW DOCKS, LAKE DREDGING, 15 ATTACHED SINGLE FAMILY UNITS, AND 44 DETACHED SINGLE FAMILY UNITS.

2. EXISTING CONDITIONS: OPEN GRASSED FIELDS & WETLANDS

3. ADJACENT AREAS: THE SITE IS BOUNDED TO THE NORTH—EAST BY NC 175 AND A CHURCH, AND ON OTHER SIDES BY SINGLE FAMILY RESIDENTIAL LOTS.

4. SOIL CLEAN UP AND CONTROL PRACTICES:
(A) LOCAL, STATE AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL
BE CLEARLY POSTED AND PROCEDURES WILL BE MADE AVAILABLE TO SITE PERSONNEL.

(B) MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIAL AND EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO, BROOMS, DUSTPANS, MOPS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST AND

PROPERLY LABELED PLASTIC AND METAL WASTE CONTAINERS.

(C) SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO FUTURE SPILLS.

(D) ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS WILL BE REPORTED AS REQUIRED BY LOCAL, STATE AND FEDERAL REGULATIONS.

(E) FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER). THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-426-2675.

(F) FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-425-2675.

(G) FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE NORTH CAROLINA DEQ WILL BE CONTACTED WITHIN 24 HOURS.

(H) FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE SPILL WILL BE CLEANED UP AND LOCAL AGENCIES WILL BE CONTACTED AS REQUIRED.

(I) THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF MORE THAN 1320 GALLONS OF PETROLEUM IS STORED ONSITE (THIS INCLUDES CAPACITIES OF EQUIPMENT) OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 560 GALLONS. THE CONTRACTOR WILL NEED A SPILL PREVENTION CONTAINMENT AND COUNTER MEASURES PLAN BY THAT LICENSED PROFESSIONAL.

5. INSPECTIONS & RECORD KEEPING:

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(1). Each day when any type of construction activity has taken place at a primary permittee 's site, certified personnel provided by the primary permittee shall inspect: (a) all areas at the primary permittee's site where petroleum products are stored, used, or handled for spills and leaks from vehicles and equipment and (b) all locations at the primary permittee's site where vehicles enter or exit the site for evidence of off—site sediment tracking .. These inspections must be conducted until a Notice of Termination is submitted.

(2). Measure rainfall once every 24 hours except any non-working Saturday, non-working Sunday and non-working Federal holiday until a Notice of Termination is submitted. Measurement of rainfall may be suspended if all areas of the site have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region.

(3). Certified personnel (provided by the primary permittee) shall inspect the following at least once every seven (7) calendar days and within 24 hours of the end of a storm that is 0.5 inches rainfall or greater (unless such storm ends after 5:00 PM on any Friday or on any non—working Saturday, non—working Sunday or any non—working Federal holiday in which case the inspection shall be completed by the end of the next business day and/or working day, whichever occurs first): (a) disturbed areas of the primary permittee's construction site; (b) areas used by the primary permittee for storage of materials that are exposed to precipitation; and (c) structural control measures. Erosion and sediment control measures identified in the Plan applicable to the primary permittee's site shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s). For areas of a site that have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region, the permittee must comply with Part IV.D.4.a.(4). These inspections must be conducted until a Notice of Termination is submitted.

(4). Certified personnel (provided by the primary permittee) shall inspect at least once per month during the term of this permit (i.e., until a Notice of Termination is received by EPD) the areas of the site that have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region. These areas shall be inspected for evidence of, or the potential for, pollutants entering the drainage system and the receiving water(s). Erosion and sediment control measures identified in the Plan shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving

(5). Based on the results of each inspection, the site description and the pollution prevention and control measures identified in the Erosion, Sedimentation and Pollution Control Plan, the Plan shall be revised as appropriate not later than seven (7) calendar days following each inspection. Implementation of such changes shall be made as soon as practical but in no case later than seven (7) calendar days following each inspection.

(6). A report of each inspection that includes the name(s) of certified personnel making each inspection, the date(s) of each inspection, construction phase (i.e., initial, intermediate or final), major observations relating to the implementation of the Erosion, Sedimentation and Pollution Control Plan, and actions taken in accordance with Part IV.D.4.a.(5). of the permit shall be made and retained at the site or be readily available at a designated alternate location until the entire site or that portion of a construction project that has been phased has undergone final stabilization and a Notice of Termination is submitted to EPD. Such reports shall be readily available by end of the second business day and/or working day and shall identify all incidents of best management practices that have not been properly installed and/or maintained as described in the Plan. Where the report does not identify any incidents, the inspection report shall contain a certification that the best management practices are in compliance with the Erosion, Sedimentation and Pollution Control Plan. The report shall be signed in accordance with Part V.G.2. of this permit.

NO MATERIAL IS TO BE BURNED ON SITE. ALL WASTE MATERIAL SHALL BE DISPOSED OF AT A PERMITTED OFFSITE LANDFILL

THE INSTALLATION OF EROSION CONTROL MEASURES SHALL TAKE PLACE PRIOR TO OR CONCURRENT WITH LAND DISTURBING ACTIVITIES

ALL IMPROVEMENTS TO CONFORM WITH CLAY COUNTY
CONSTRUCTION STANDARDS

NOTIFY CLAY COUNTY 24 HOURS BEFORE STARTING EACH PHASE
OF CONSTRUCTION

MAXIMUM CUT OR FILL SLOPES ARE 2 HORIZONTAL TO 1 VERTICAL

ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSPECTED DAILY AND ANY DEFICENCIES NOTED WILL BE CORRECTED BY THE END OF EACH DAY. ADDITIONAL EROSION CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTOR.

SITE AREA: 16.22 AC DISTURBED AREA: 11.18 AC EARTHWORK ESTIMATE:

CUT: 45,158 CY FILL: 52,180 CY DIFFERENCE: 7,022 CY

*APPROXIMATELY 7,000 CY OF EARTHWORK TO BE TAKEN FROM DREDGING ACTIVITES TO BALANCE THE EARTHWORK.

*EARTHWORK CALCULATIONS ARE BASED ON FINISHED GRADE.

EARTHWORK ESTIMATE PROVIDED FOR CONVENIENCE TO CONTRACTOR ONLY. CONTRACTOR IS TO VERIFY QUANTITIES.

ADDITIONAL EROSION CONTROL NOTES:

THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPS WITHIN 7 DAYS AFTER INSTALLATION.

NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.

AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMPS WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.

WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.

EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

DETENTION POND OR SEDIMENT BASIN / STORAGE WILL BE INSTALLED AND FUNCTIONING BEFORE ANY MAJOR GRADING OR IMPERVIOUS SURFACES ARE CONSTRUCTED.

NOTE:

MAINTENANCE OF ALL EROSION CONTROL MEASURES, WHETHER TEMPORARY OR PERMANENT, SHALL AT ALL TIMES BE THE RESPONSIBILITY OF THE OWNER.

SURFACE ROUGHENING: ALL CUT AND FILL SLOPES SHALL BE SURFACED ROUGHENED AND VEGETATED WITHIN THREE (3) DAYS AFTER GRADING.

DISPOSAL: STUMPS AND CONSTRUCTION DEBRIS SHALL BE DEPOSITED IN A PROPERLY PERMITTED LANDFILL.

TYPE "S" SILT FENCE:
A DOUBLE ROW OF TYPE "S" SILT FENCE SHALL BE REQUIRED WHEN PLACED
WITHIN 200' OF STATE WATERS AND AT THE TOE OF SLOPES GREATER THAN 10'
IN HEIGHT.

GRADING NOTES:

COMPACTION OF THE BACKFILL OF ALL TRENCHES SHALL BE COMPACTED TO THE DENSITY OF 95% OF MODIFIED PROCTOR MAXIMUM DENSITY PER A.S.T.M. TEST D—698. BACKFILL MATERIAL SHALL BE FREE FROM ROOTS, STUMPS, OR OTHER FOREIGN DEBRIS, AND SHALL BE PLACED AT OR NEAR OPTIMUM MOISTURE. CORRECTION OF ANY TRENCH SETTLEMENT WITHIN A YEAR FROM THE DATE OF APPROVAL WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

BEDDING:

COMPACTION:

ALL STORM DRAIN AND SANITARY SEWER PIPES SHALL HAVE A CLASS "C" BEDDING AS A MINIMUM UNLESS NOTED OTHERWISE. EXCAVATE AND SHAPE BOTTOM OF TRENCH TO THE PROPER GRADE AND TO FIT THE LOWER PART OF THE PIPE EXTERIOR FOR A WIDTH OF A LEAST 50 PERCENT OF THE OUTSIDE DIAMETER OF THE PIPE. SIDES AND AREA OVER THE PIPE SHALL THEN BE FILLED WITH COMPACTED BACKFILL.

<u>PAVING:</u>

PAVING SHALL BE DONE IN ACCORDANCE WITH THE SPECIFICATIONS PROVIDED IN THESE PLANS. ALL PAVEMENT WITHIN THE NCDOT R/W MUST CONFORM TO ALL NCDOT PAVING STANDARDS.

RETE:

3000 PSI COMPRESSIVE STRENGTH AT 28 DAYS, REINFORCING BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A 615 GRADE 60.

<u>FIELD CONDITIONS:</u>

CONTRACTOR SHALL VERIFY FIELD CONDITIONS AFFECTING CONSTRUCTION,
PARTICULARLY UTILITIES, PRIOR TO CONSTRUCTION. CHANGES IN CONSTRUCTION
NECESSITATED BY FIELD CONDITIONS SHALL BE APPROVED BY THE OWNER OR
OWNER'S ENGINEER PRIOR TO CONSTRUCTION. IN ACCORDANCE WITH STATE LAW, THE
CONTRACTOR SHALL CALL 800—288—7411 AT LEAST THREE (3) WORKING DAYS PRIOR
TO CONSTRUCTION FOR LOCATION OF UNDERGROUND UTILITIES.

CONSTRUCTION STAKING:

CONSTRUCTION STAKING IS THE RESPONSIBILITY OF THE CONTRACTOR.

CONSTRUCTION NOTES:

 NO ADDITIONAL CONSTRUCTION OR IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO WALLS, FENCES, SIGNS, SPRINKLER SYSTEMS, LIGHTS, TRESS, ETC., WILL BE ALLOWED ON THE ROAD RIGHT—OF—WAY.

2. THE CLAY COUNTY SHALL BE NOTIFIED 24 HOURS PRIOR TO ANY CONSTRUCTION

3. ALL WATER MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE CLAY COUNTY WATER & SEWER DEPARTMENT.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING A MARKED—UP SET OF DESIGN DRAWINGS SHOWING ALL "ASBUILT" CONDITIONS. THESE "RECORD DRAWINGS" SHALL BE MADE AVAILABLE TO THE DESIGNER AND/OR THE CITY INSPECTOR UPON REQUEST. THE MARK—UPS SHALL BE AT THE SITE AT ALL TIMES AND SHALL BE UTILIZED TO DEVELOP FINAL RECORD DRAWINGS.

5. ANY CHANGES IN THE HORIZONTAL ALIGNMENT SHOWN HEREON SHALL BE APPROVED BY THE DESIGN ENGINEER AND THE CLAY COUNTY PRIOR TO

6. THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY LOCATIONS.
CONTRACTOR SHOULD NOTIFY THE UTILITIES PROTECTION CENTER, INC. AT (800)
282-7411 THREE WORKING DAYS BEFORE CONSTRUCTION IS TO BEGIN.

7. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION & MAINTENANCE OF ALL REQUIRED SEDIMENT CONTROL STRUCTURES.

8. ALL DISTURBED AREAS SHALL BE GRASSED IMMEDIATELY UPON COMPLETION

OF BACK FILLING TRENCHES.

9. CLEARING LIMITS SHALL BE CLEARLY DELINEATED WITH TREE SAVE FENCE OR OTHER SUITABLE MEANS.10. CONTRACTOR IS RESPONSIBLE FOR THE ADJUSTMENTS TO ALL EXISTING

UTILITIES ON SITE TO FINAL GRADE.

(39.37 INCHES = 1 METER)

NOTES:

DISPOSAL: STUMPS AND CONSTRUCTION DEBRIS SHALL BE DEPOSITED IN A PROPERLY PERMITTED LANDFILL.

PIPE: STORM DRAIN PIPES WILL BE CLASS III REINFORCED CONCRETE PIPE (RCP), TYPE II ALUMINIZED CORRUGATED STEEL PIPE (A2CSP) OR HDPE.

THE HORIZONTAL DATUM FOR THIS SURVEY IS STATE PLANE NORTH CAROLINA (NAD83).

ALL DISTANCES SHOWN ARE HORIZONTAL GROUND DISTANCES IN U.S. SURVEY FEET.

EROSION CONTROL NARRATIVE

PURPOSE OF DEVELOPMENT

THE PROPOSED PROJECT INVOLVES A RESIDENTIAL DEVELOPMENT INCLUDING 15 ATTACHED SINGLE FAMILY UNITS, AND 44 DETACHED SINGLE FAMILY UNITS.

SITE AND ADJACENT AREA CONDITIONS

THE PROJECT SITE IS CURRENTLY A GRASSY FIELD ADJACENT TO LAKE CHATUGE, WITH WETLANDS THAT DRAIN DIRECTLY INTO THE LAKE. THE SITE IS BORDERED BY HIGHWAY 175 AND IS ADJACENT TO SEVERAL SINGLE—FAMILY RESIDENTIAL PROPERTIES.

PROPOSED EROSION AND SEDIMENT CONTROL MEASURES

TO PREVENT SEDIMENT FROM ENTERING THE LAKE DURING CONSTRUCTION, A TURBIDITY CURTAIN WILL BE DEPLOYED WITHIN THE LAKE TO CONTAIN DISTURBED MATERIALS. A SILT FENCE WILL BE INSTALLED AROUND ALL DISTURBED AREAS TO INTERCEPT SEDIMENT RUNOFF. A STABILIZED CONSTRUCTION ENTRANCE WILL MINIMIZE OFF—SITE TRACKING OF SEDIMENT BY CONSTRUCTION VEHICLES. EXPOSED SOILS WILL BE STABILIZED PROMPTLY USING TEMPORARY SEEDING DURING CONSTRUCTION AND PERMANENT SEEDING UPON PROJECT COMPLETION TO ENSURE LONG—TERM EROSION CONTROL.

CONSTRUCTION SEQUENCE.

DESIGNATED WASTE AREA.

INSTALL EROSION CONTROLS: SET UP THE CONSTRUCTION ENTRANCE, SILT FENCE, AND TURBIDITY CURTAIN BEFORE ANY LAND—DISTURBING ACTIVITIES.

DREDGING OPERATIONS:
PERFORM DREDGING WITHIN THE TURBIDITY CURTAIN, WORKING TO MINIMIZE THE
TURBIDITY LEVELS OF THE WATER.

WASTE PLACEMENT:
DEPOSIT DREDGED MATERIAL ON—SITE ABOVE THE DOUBLE—ROW SILT FENCE IN

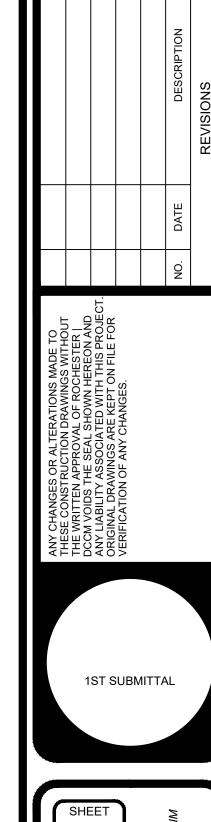
SITE STABILIZATION: STABILIZE DISTURBED AREAS AND BEGIN REVEGETATION IMMEDIATELY AFTER DREDGING AND WASTE PLACEMENT. ALL AREAS IN RIPARIAN BUFFER TO BE STABILIZED AT THE END OF THE WORK DAY.

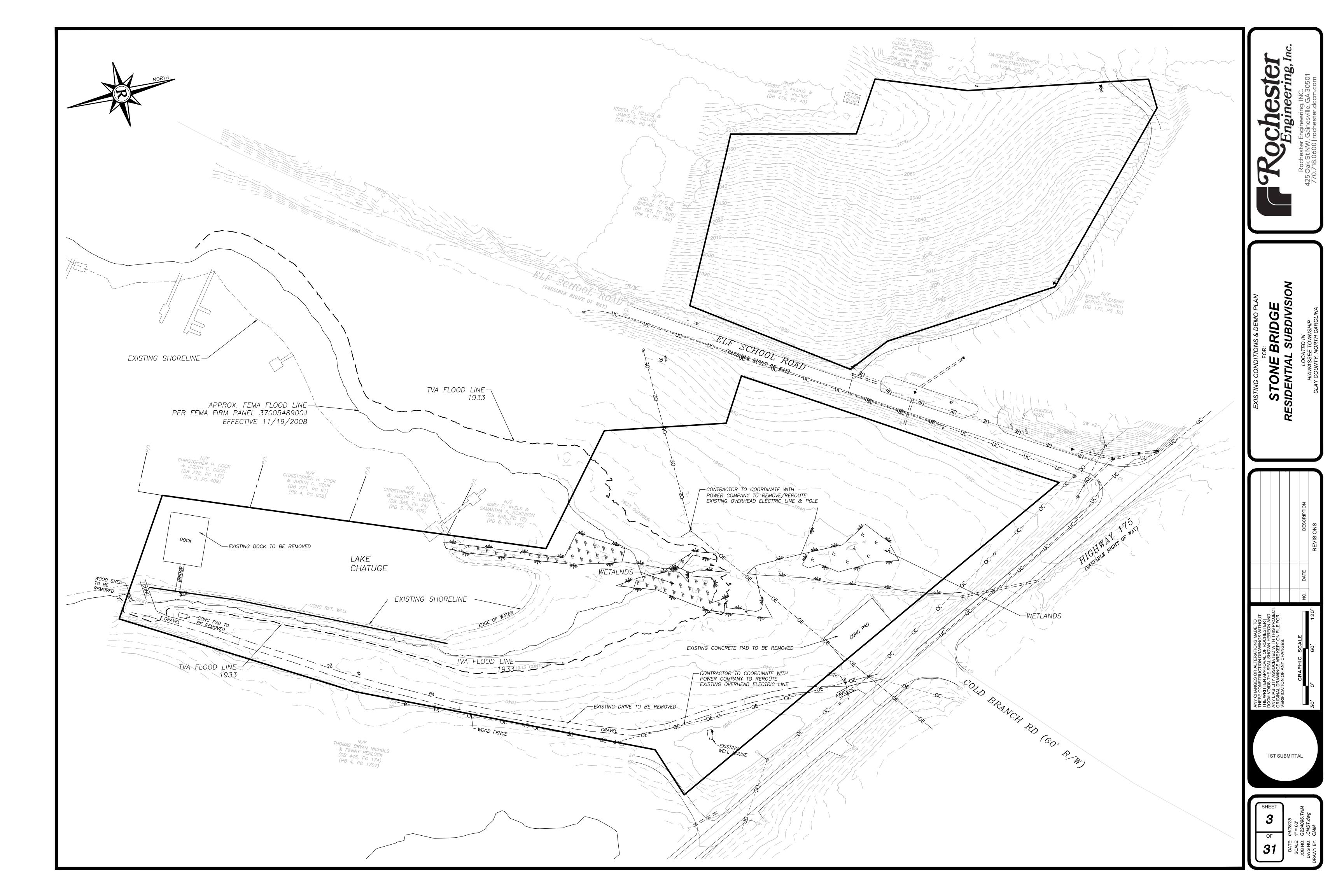
REMOVE TEMPORARY CONTROLS: AFTER STABILIZATION IS COMPLETE, REMOVE THE SILT FENCE, TURBIDITY CURTAIN, AND CONSTRUCTION ENTRANCE.

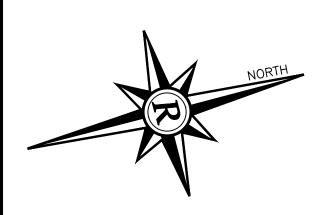
REVISION HISTORY CHART SUBMITTAL HISTORY CHART AFFECTED SHEETS P.E./ R.L.S PERMIT *AGENCY* DEPARTMENT NUMBER DESCRIPTION NUMBER DESCRIPTION DATE CLAY COUNTY PLANNING DIVISION 1st PLAN SUBMITTAL LDP



STONE BRIDGE ESIDENTIAL SUBDIVIS







V55°45'59"W 17.82'

	LOT C	HART	
	EAST PARCEL	WEST PARCEL	TOTAL
ATTACHED UNITS	15	0	15
DETACHED UNITS	33	12	45
TOTAL	48	12	60

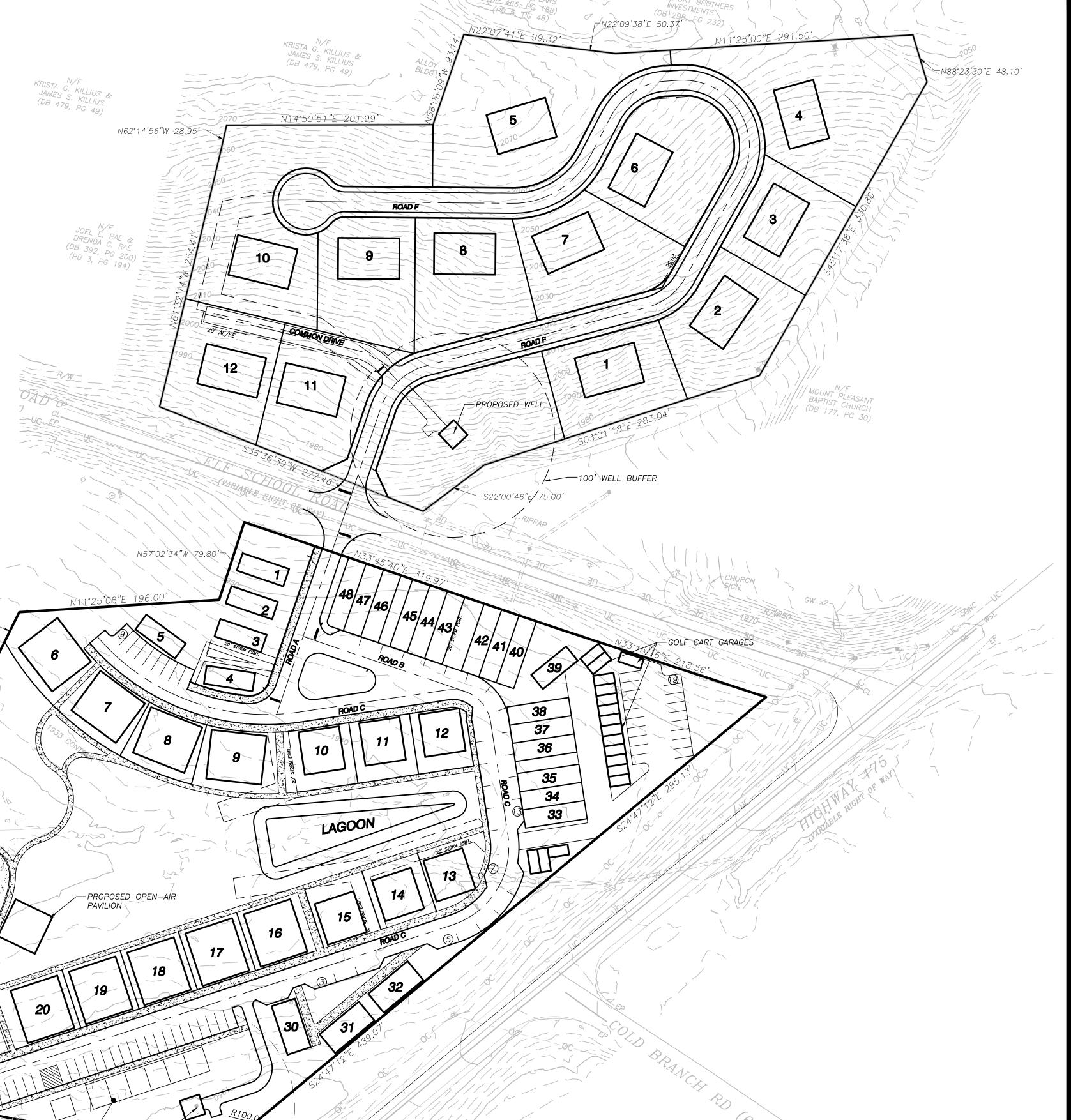
TOTAL PARKING: 82 SPACES GOLF CART GARAGES: 17 GARAGES

N48°37'20"W 41.32'—

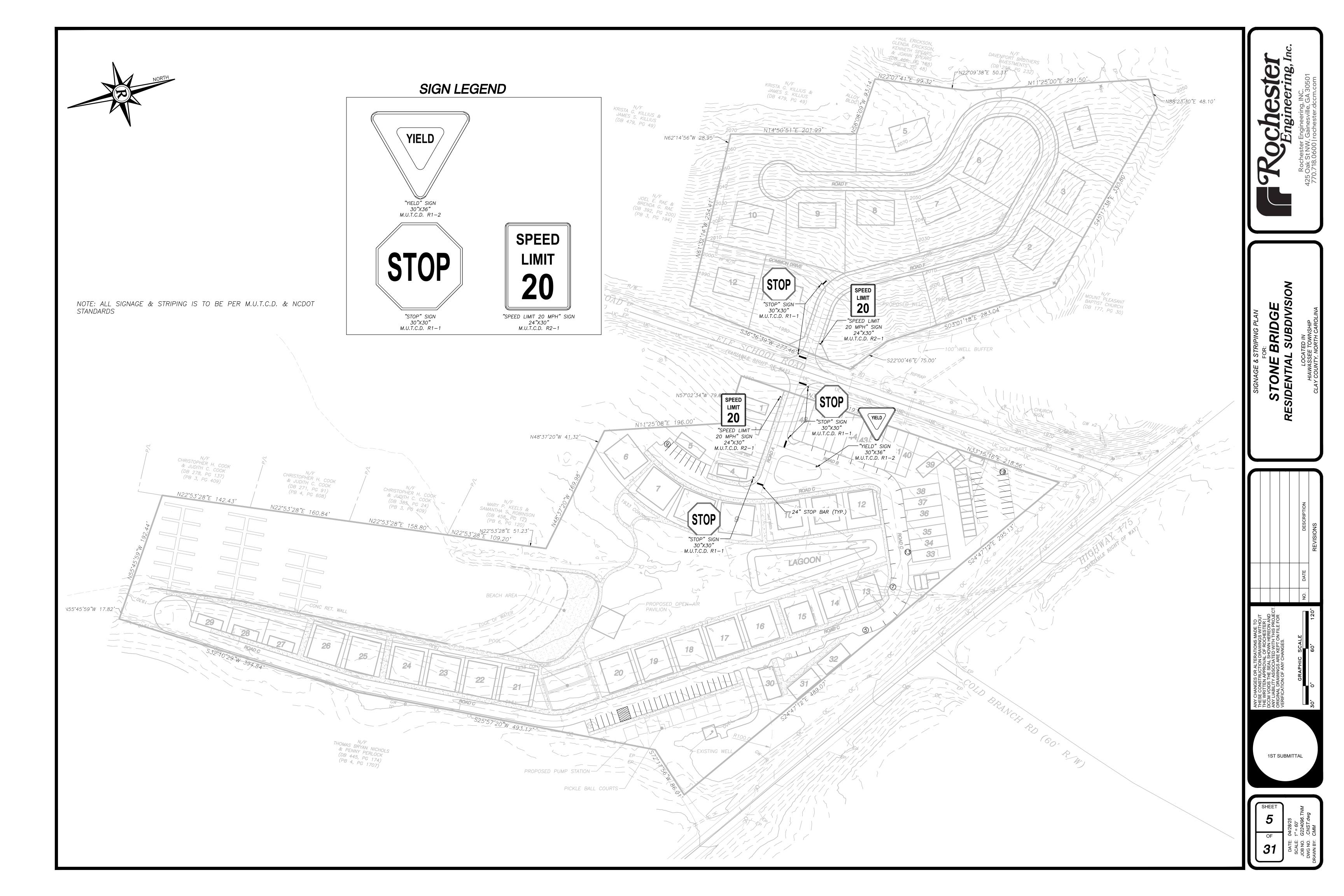
PICKLE BALL COURTS—

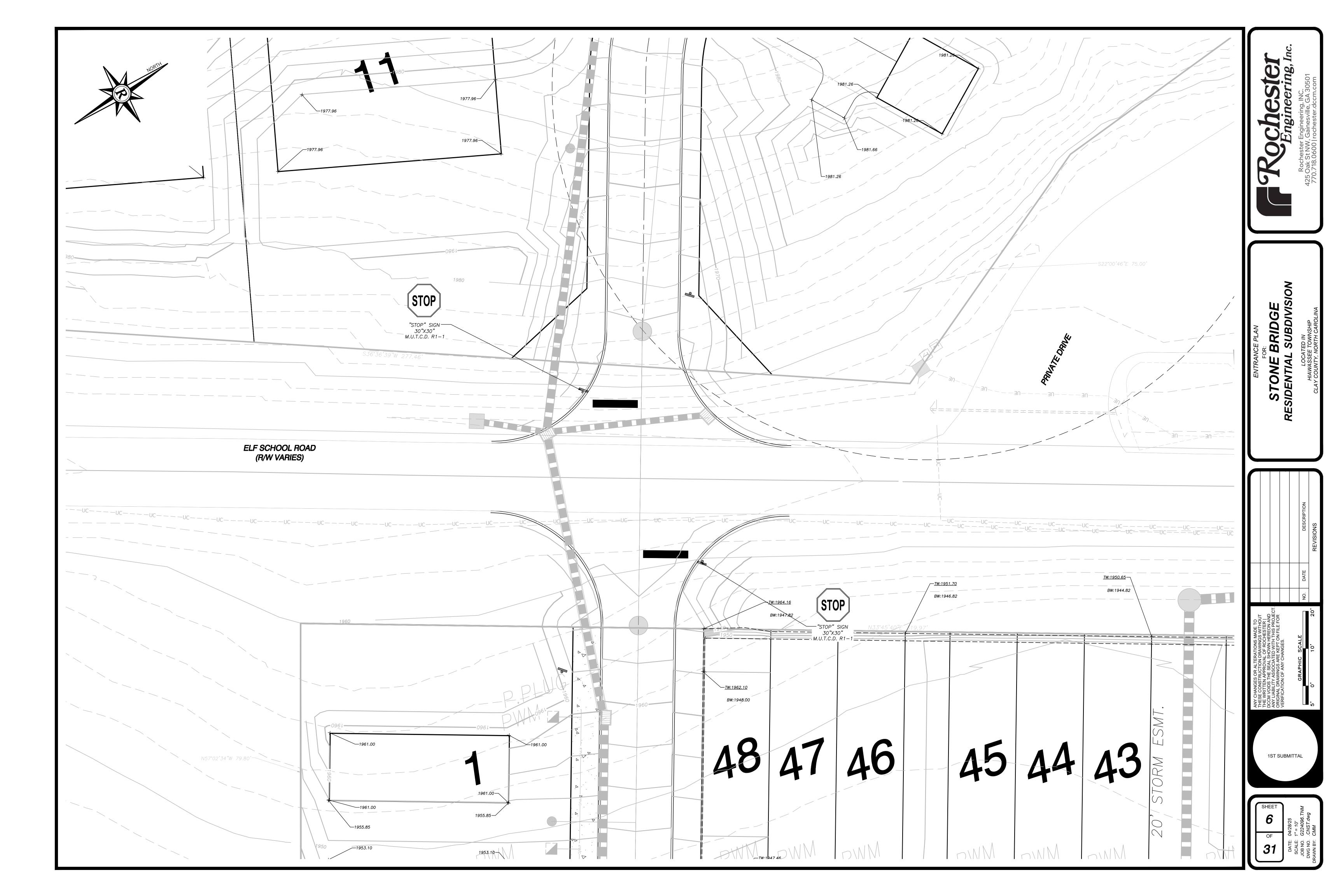
	DENSIT	Y CHART	
	ACREAGE	# OF UNITS	UNITS PER ACRE
EAST PARCEL	10.98 AC	48	4.37
WEST PARCEL	5.23 AC	12	2.29
TOTAL	16.22 AC	60	3.70
	WEST PARCEL	ACREAGE EAST PARCEL 10.98 AC WEST PARCEL 5.23 AC	EAST PARCEL 10.98 AC 48 WEST PARCEL 5.23 AC 12

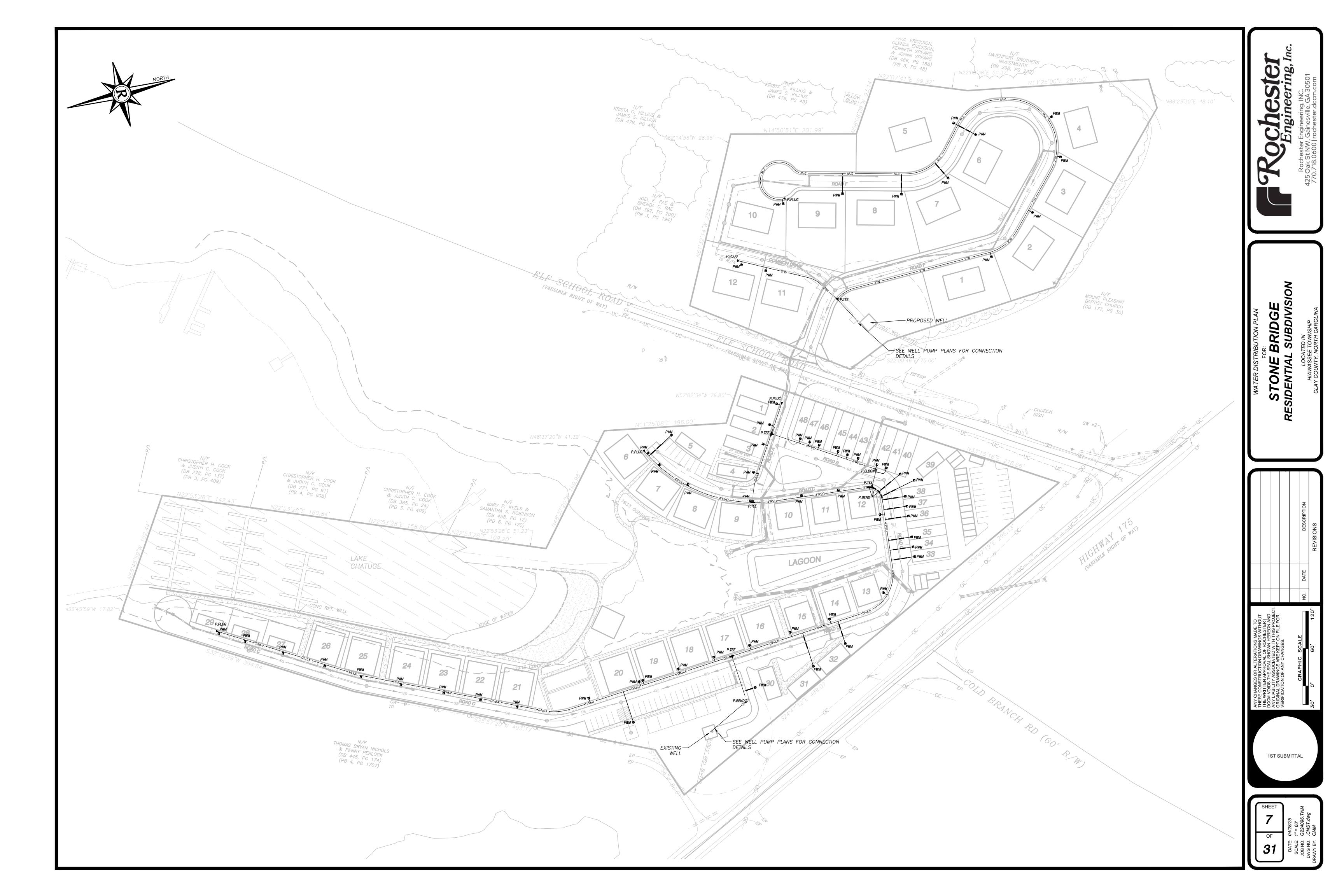
THE PROPOSED DEVELOPMENT INCLUDES A TOTAL OF 60 RESIDENTIAL UNITS, CONSISTING OF 48 DETACHED UNITS AND 12 ATTACHED UNITS. SITE AMENITIES INCLUDE GOLF CART GARAGES, A COMMUNITY POOL, BEACH AREA, PAVILION, WALKING TRAIL, LAGOON, AND MULTIPLE PICKLEBALL COURTS.

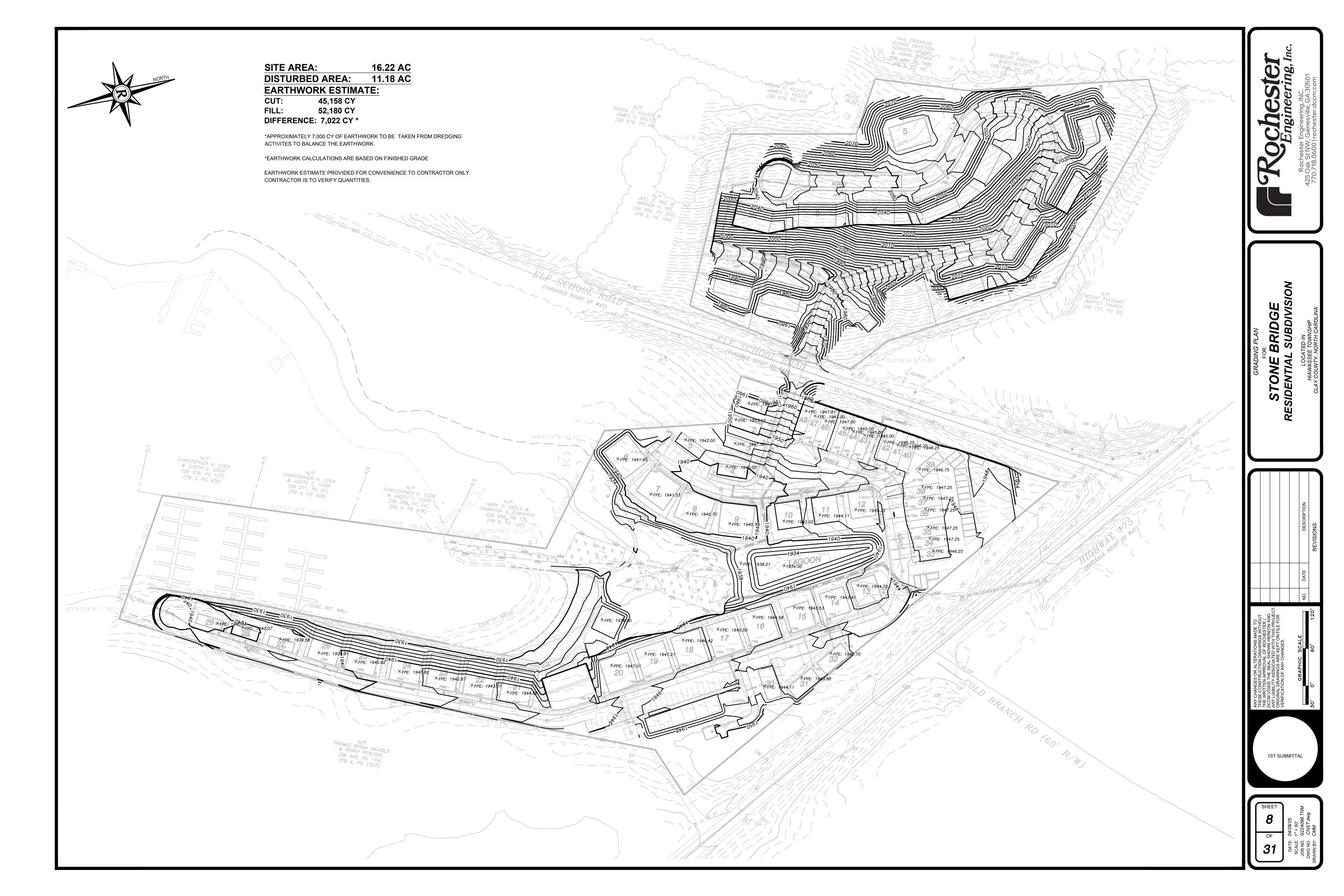


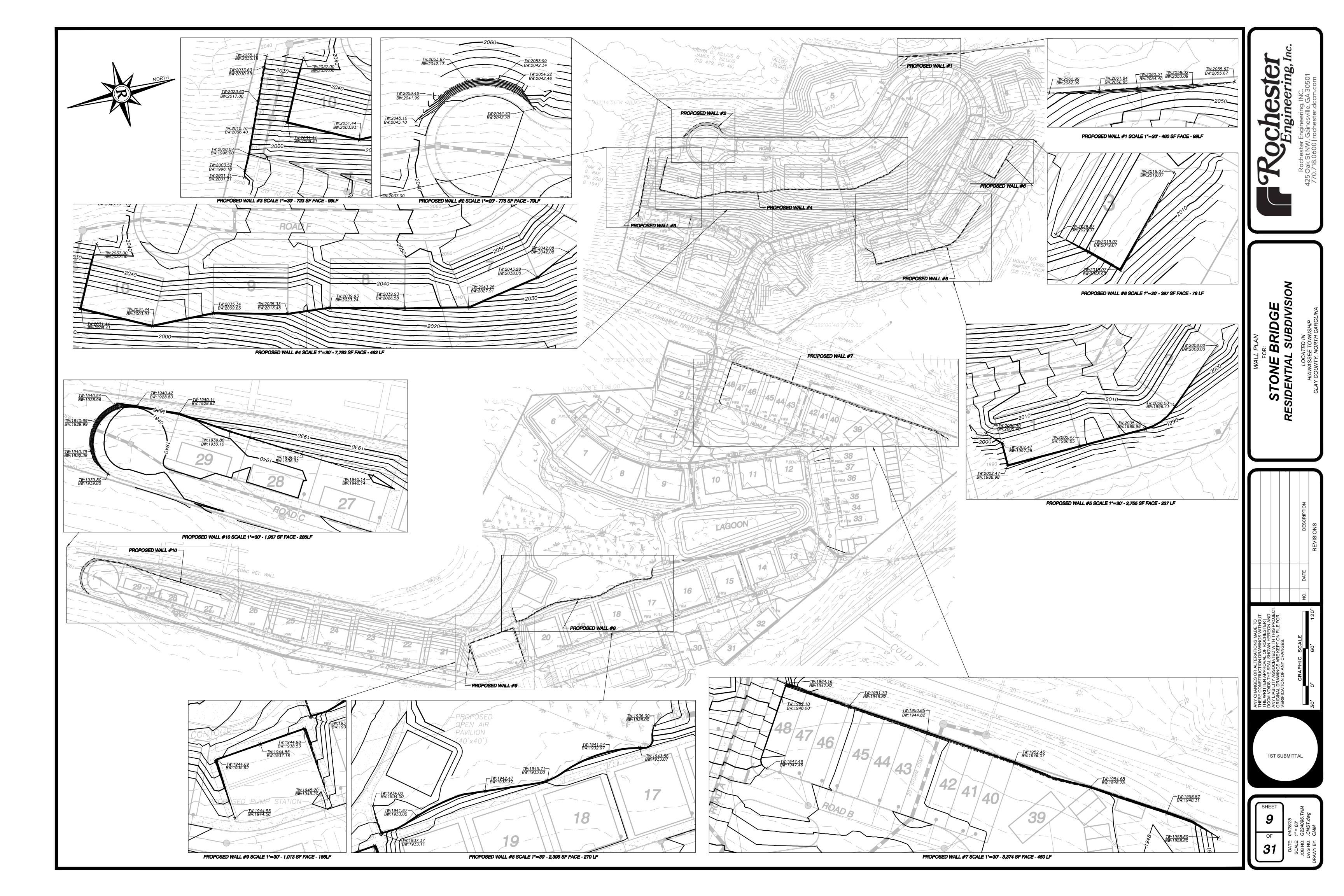
1ST SUBMITTAL

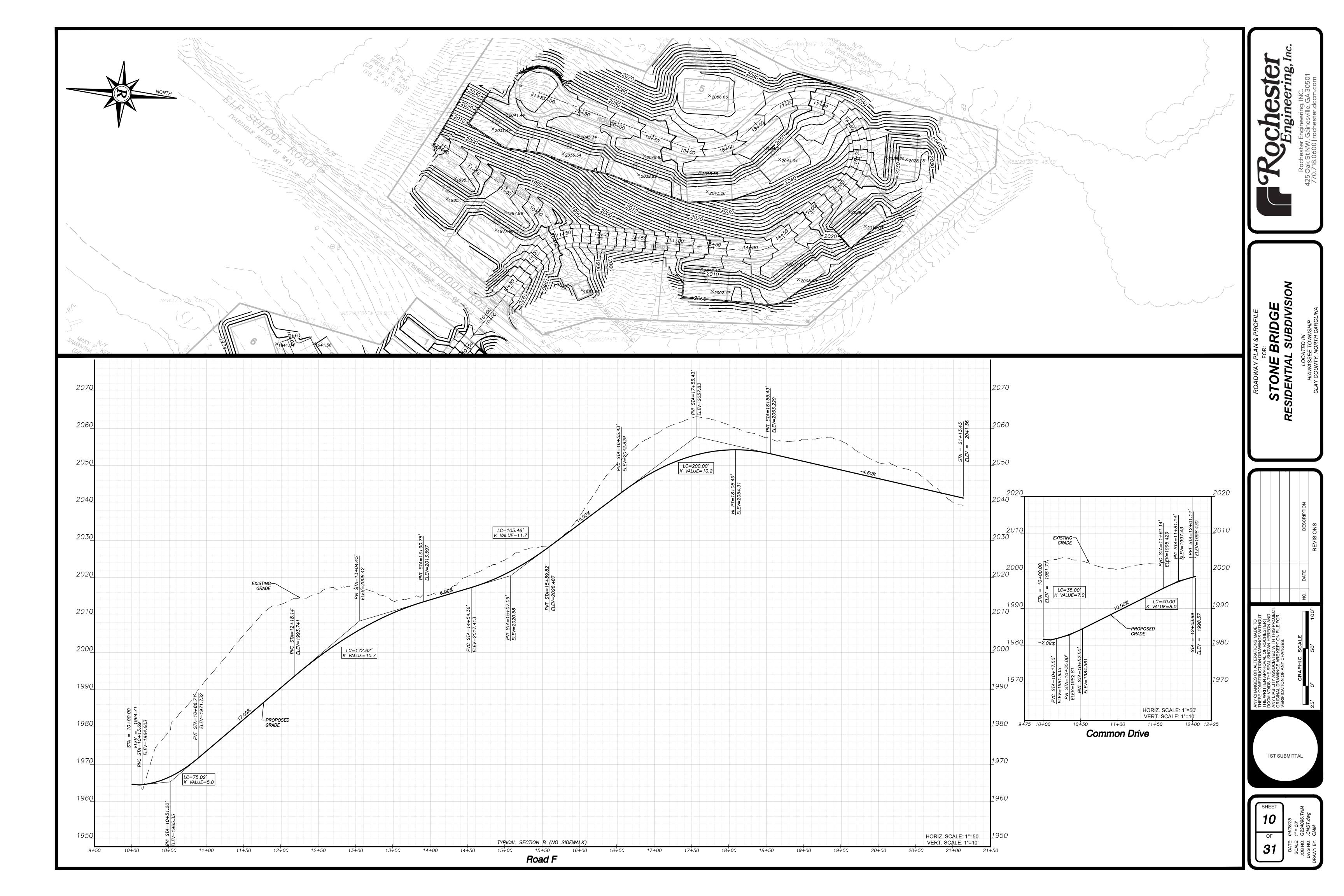


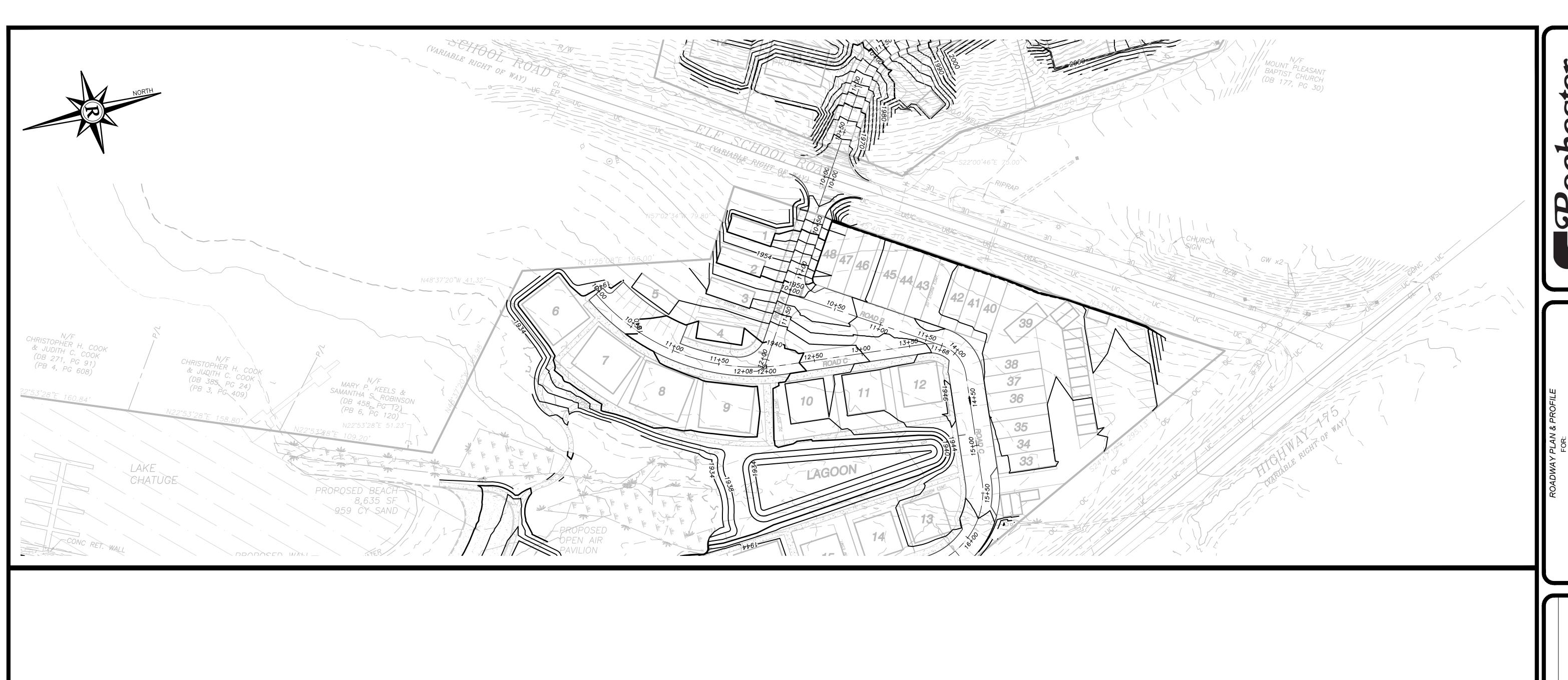


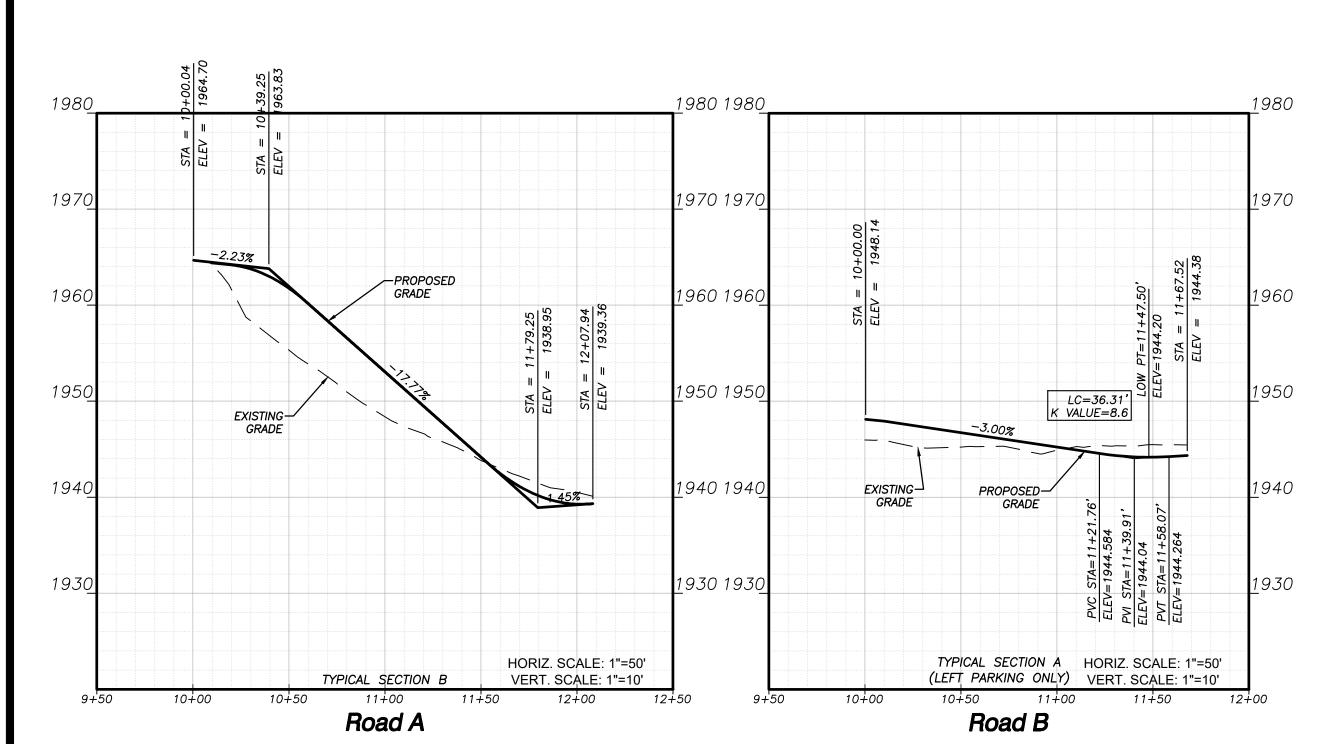


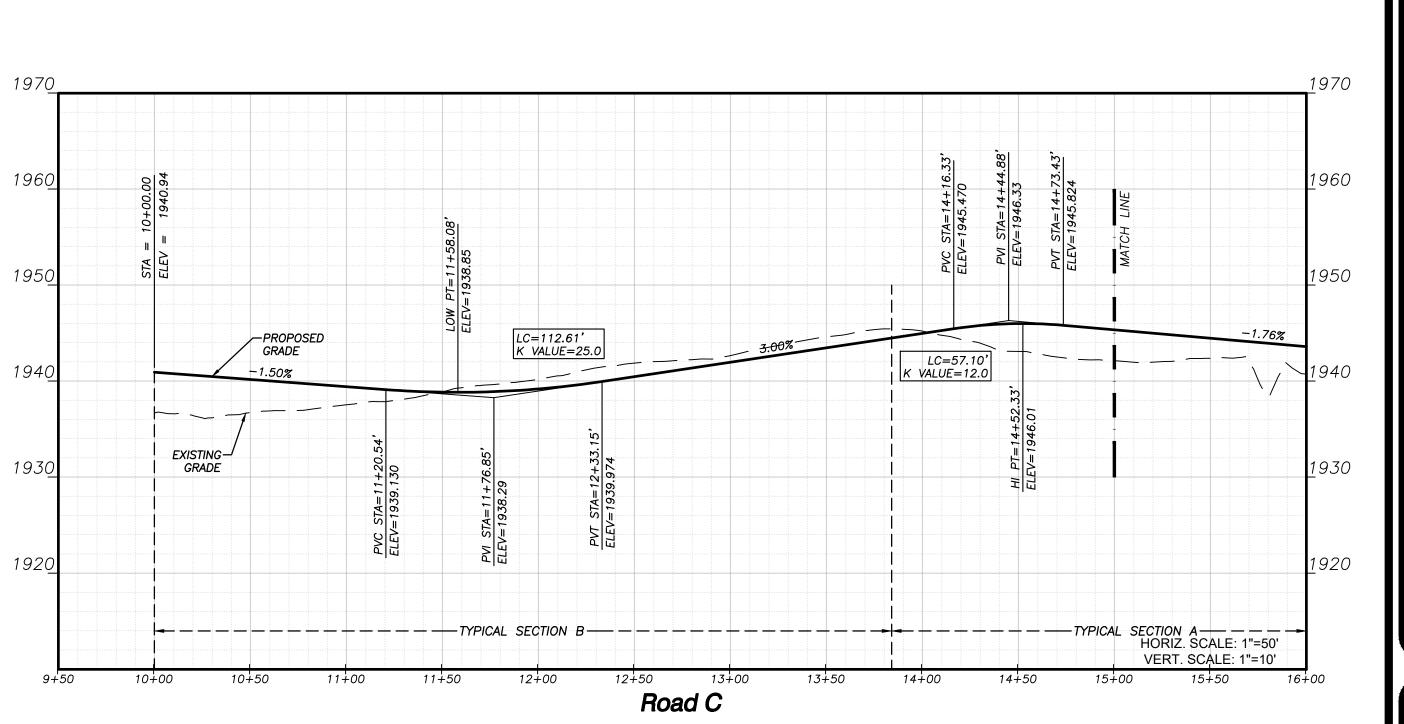








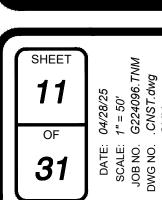




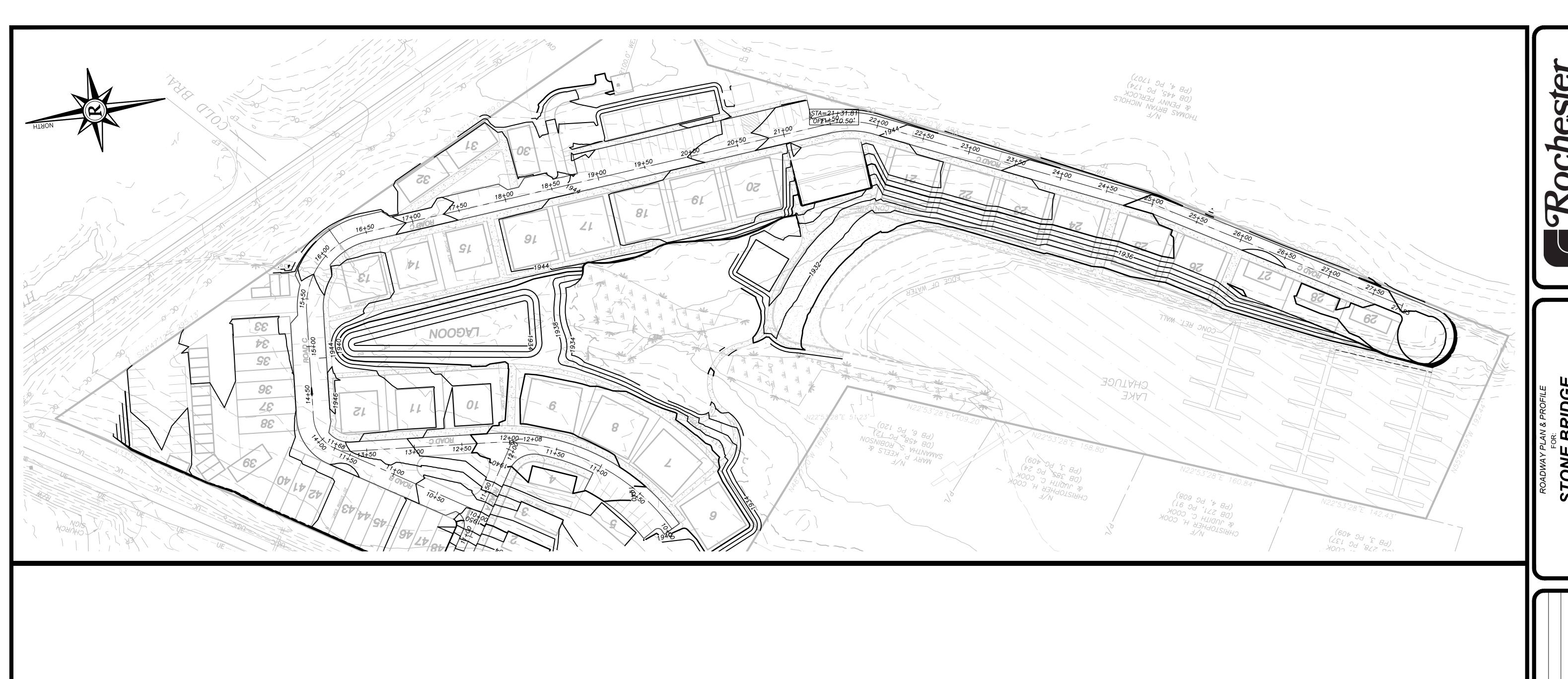


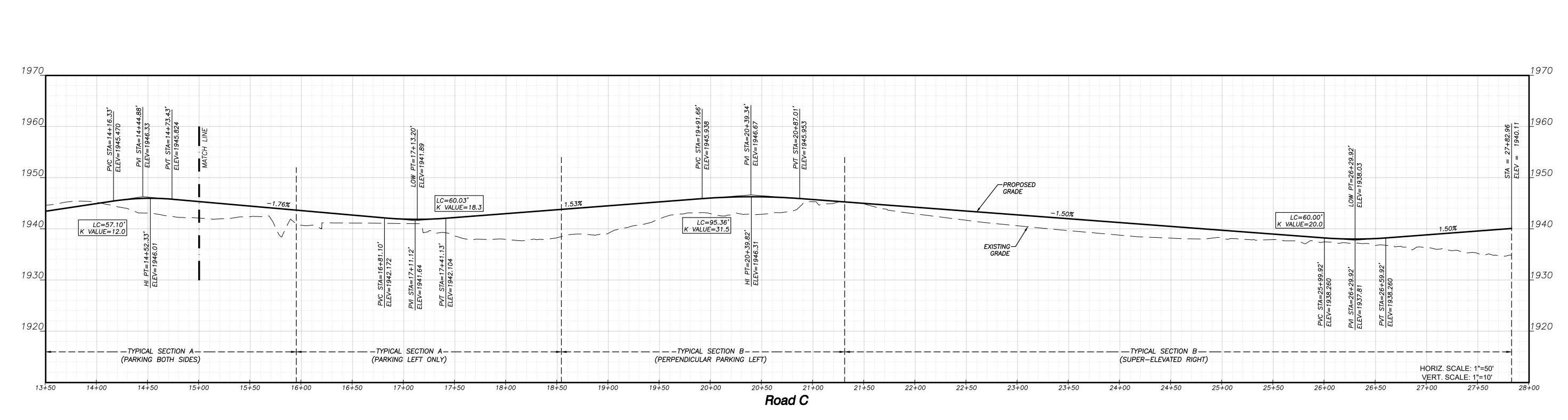
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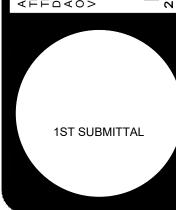
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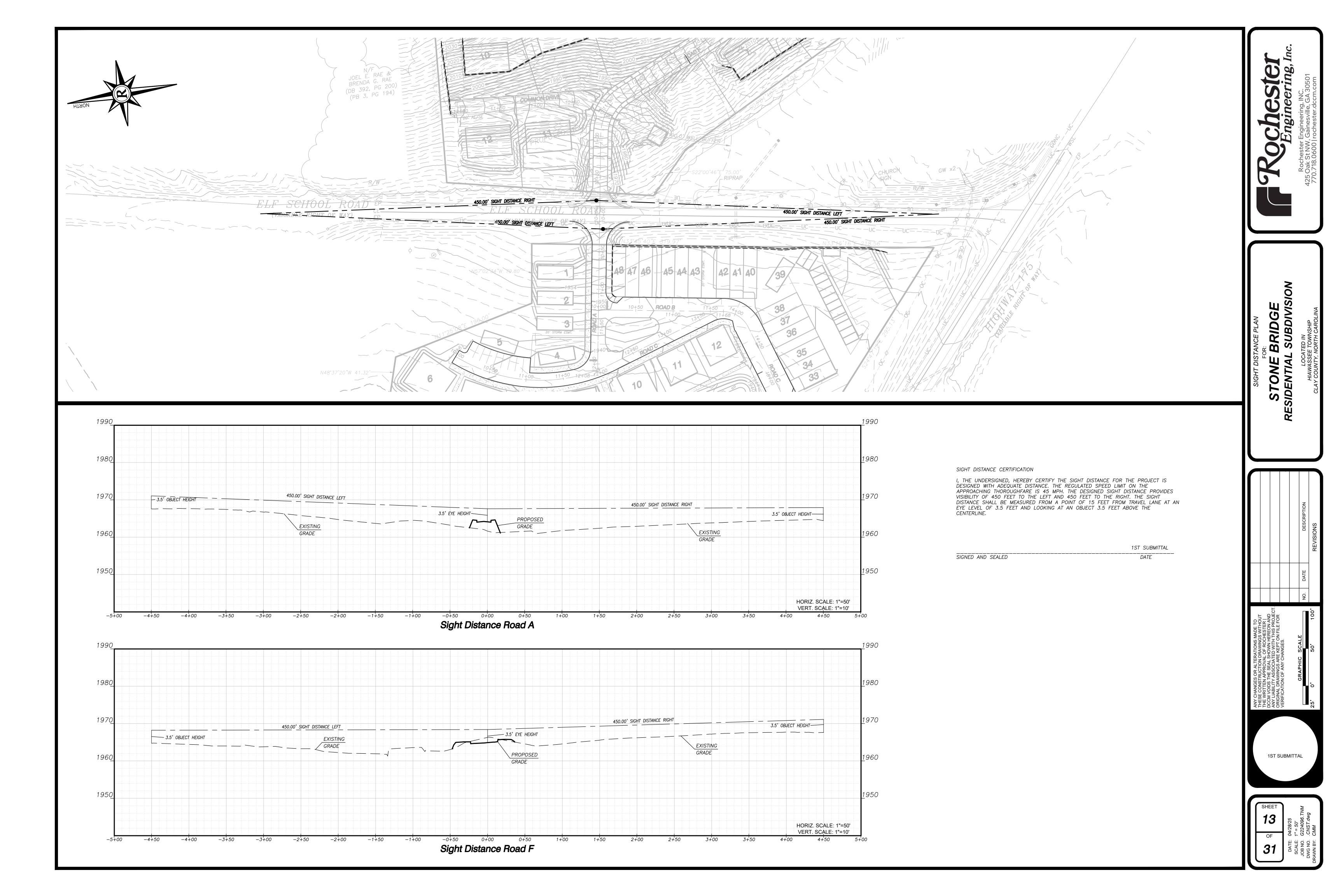
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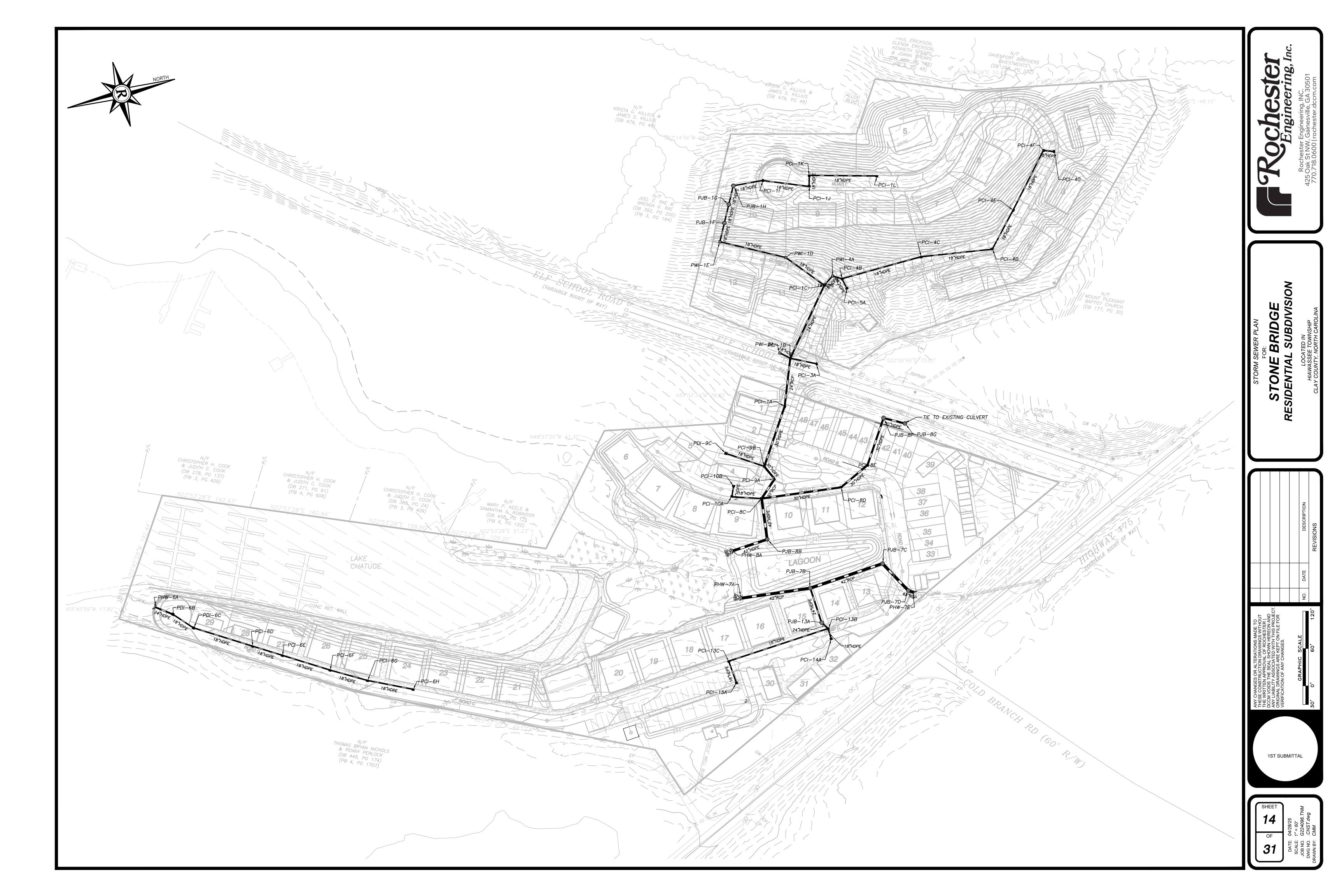
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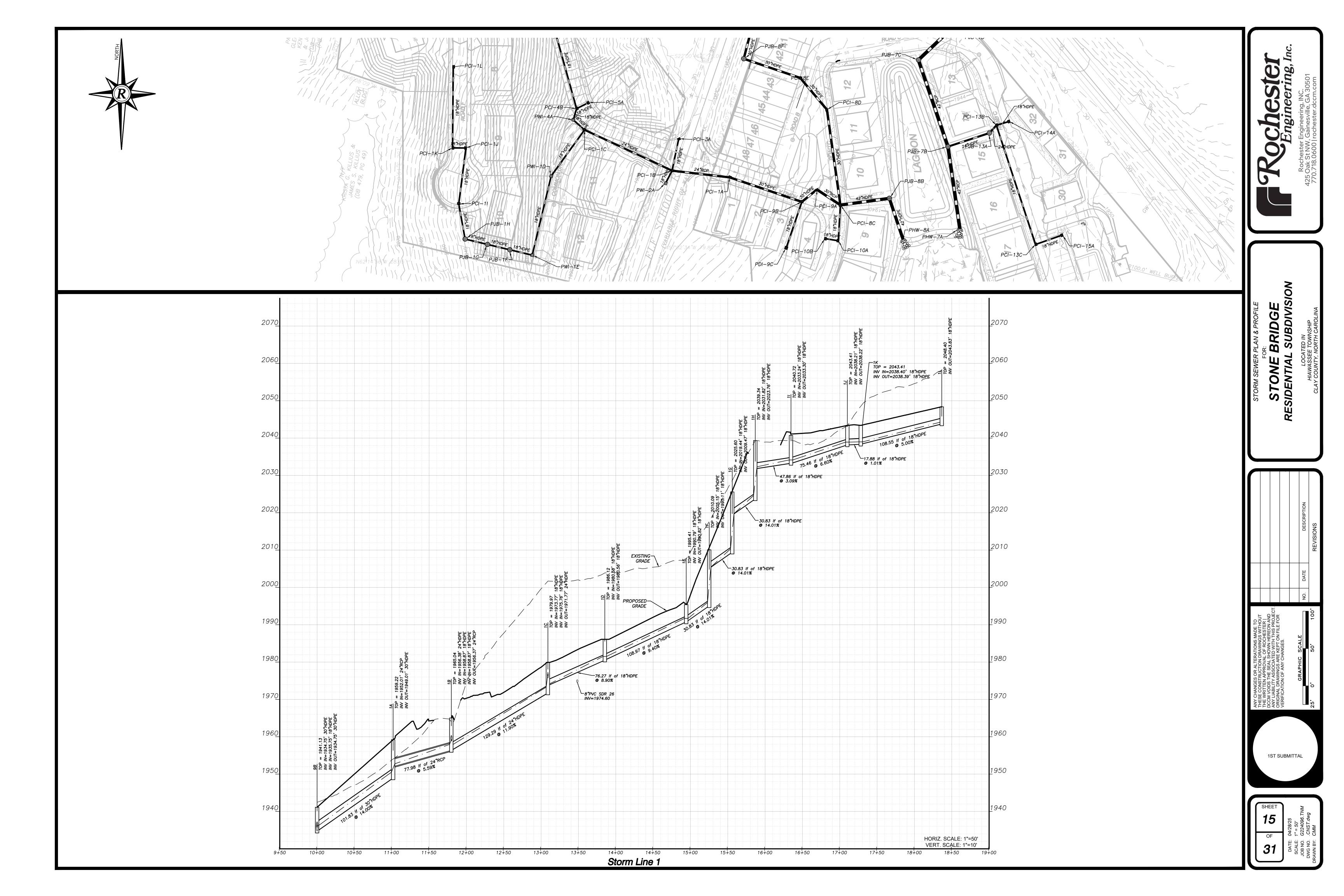
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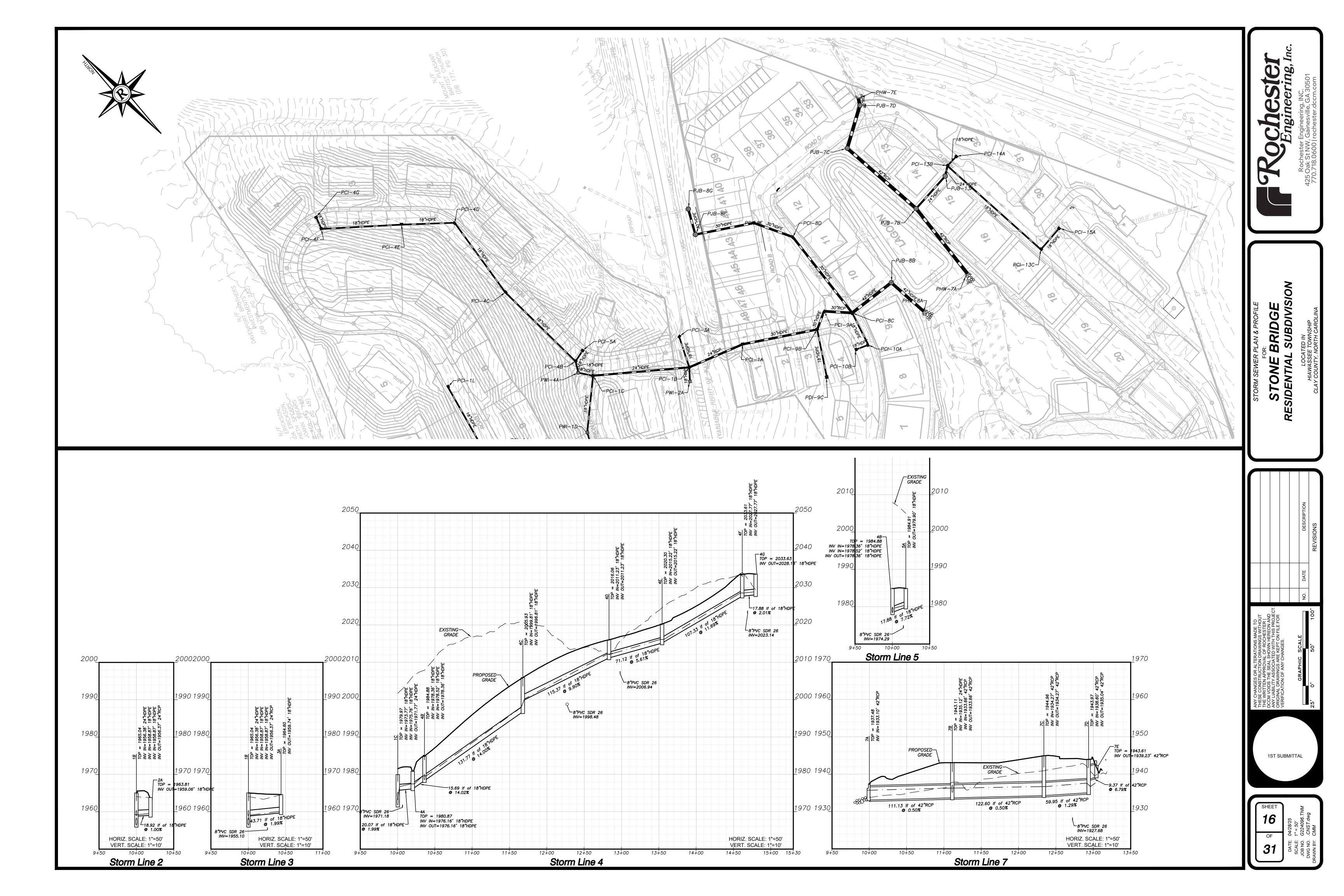


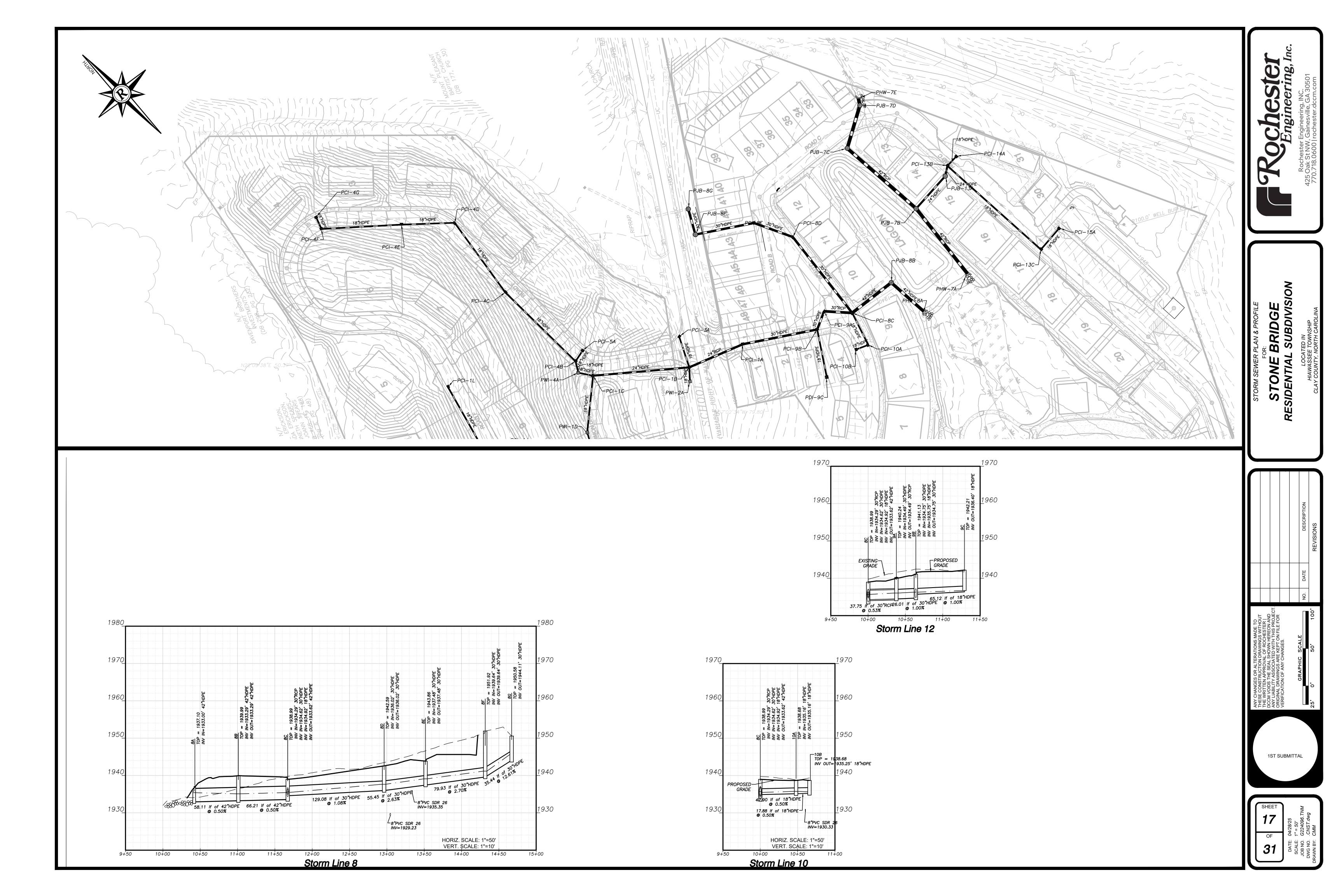
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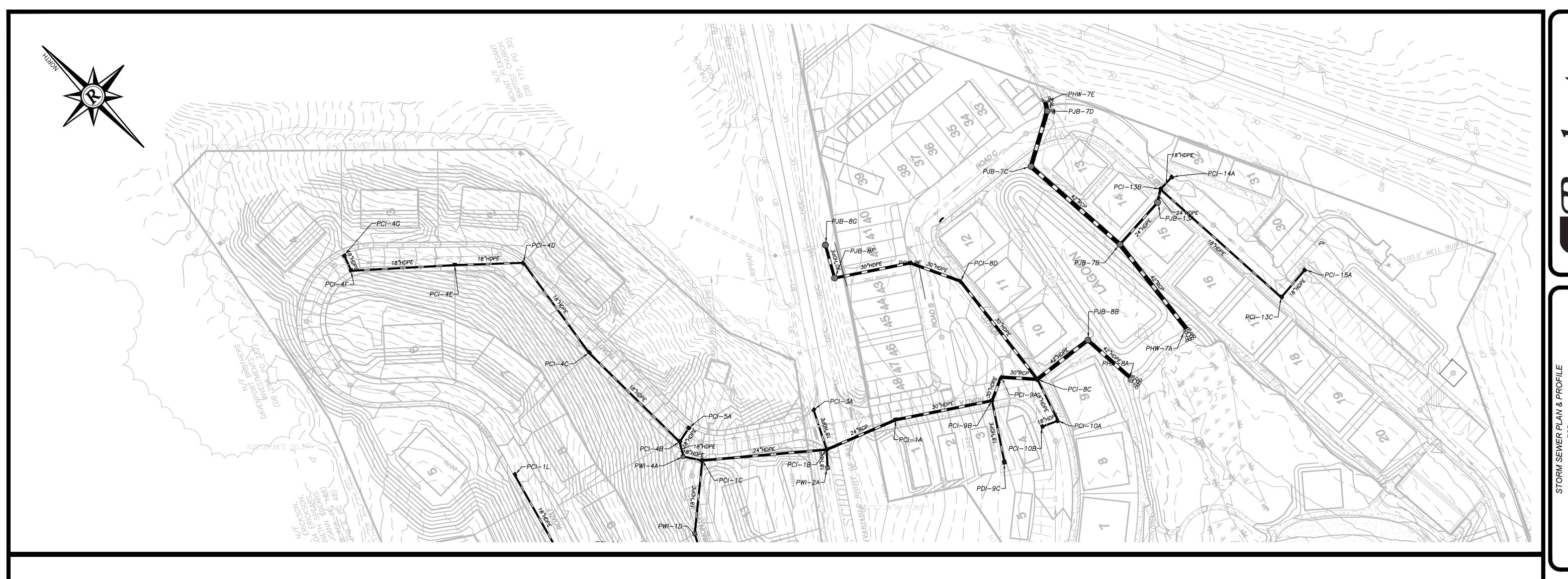


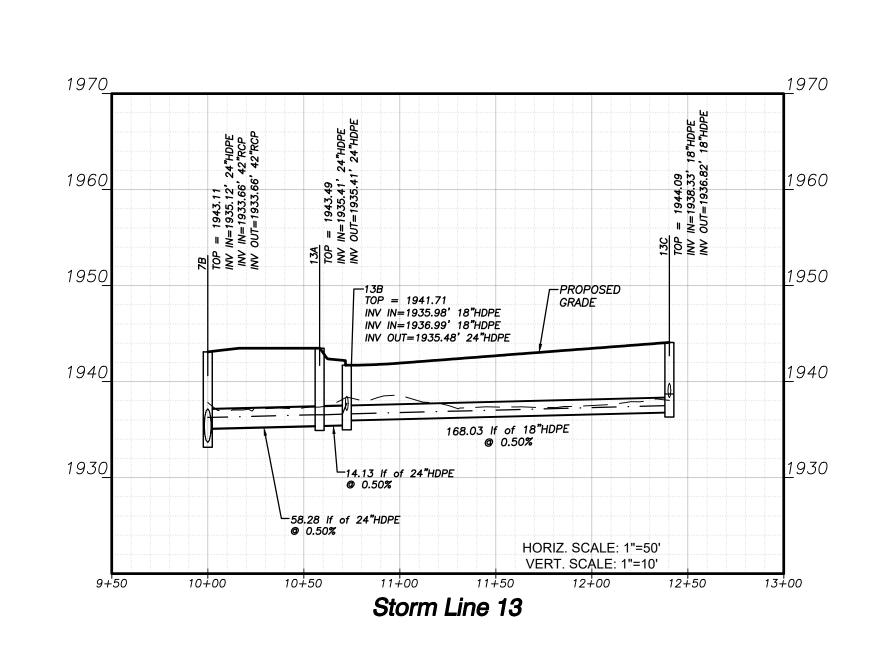


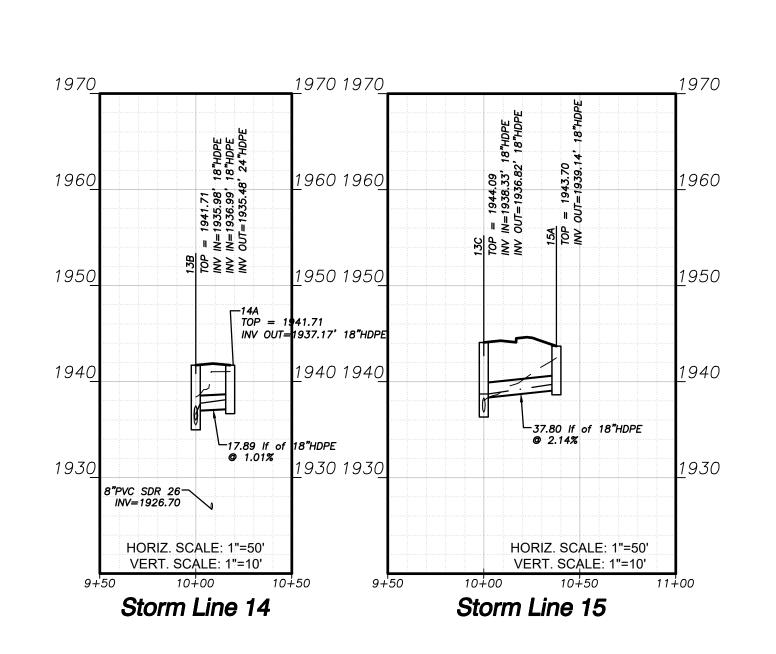














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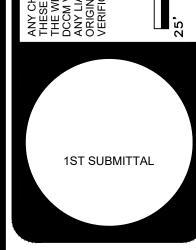
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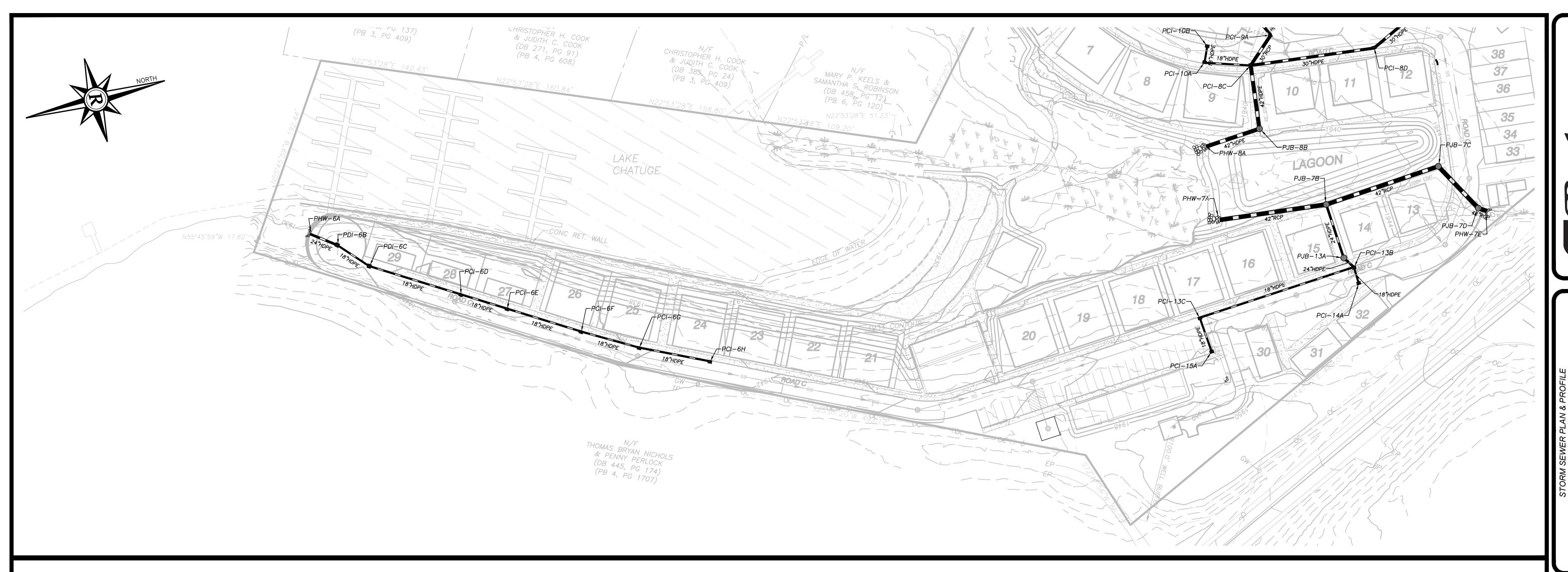
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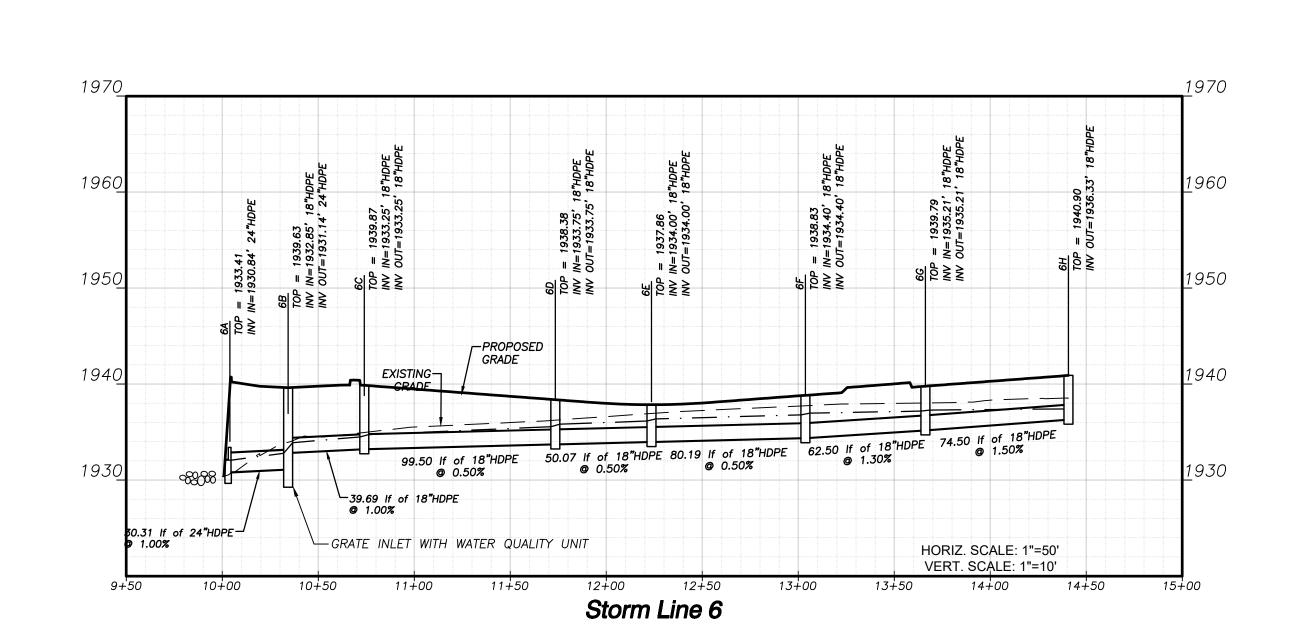
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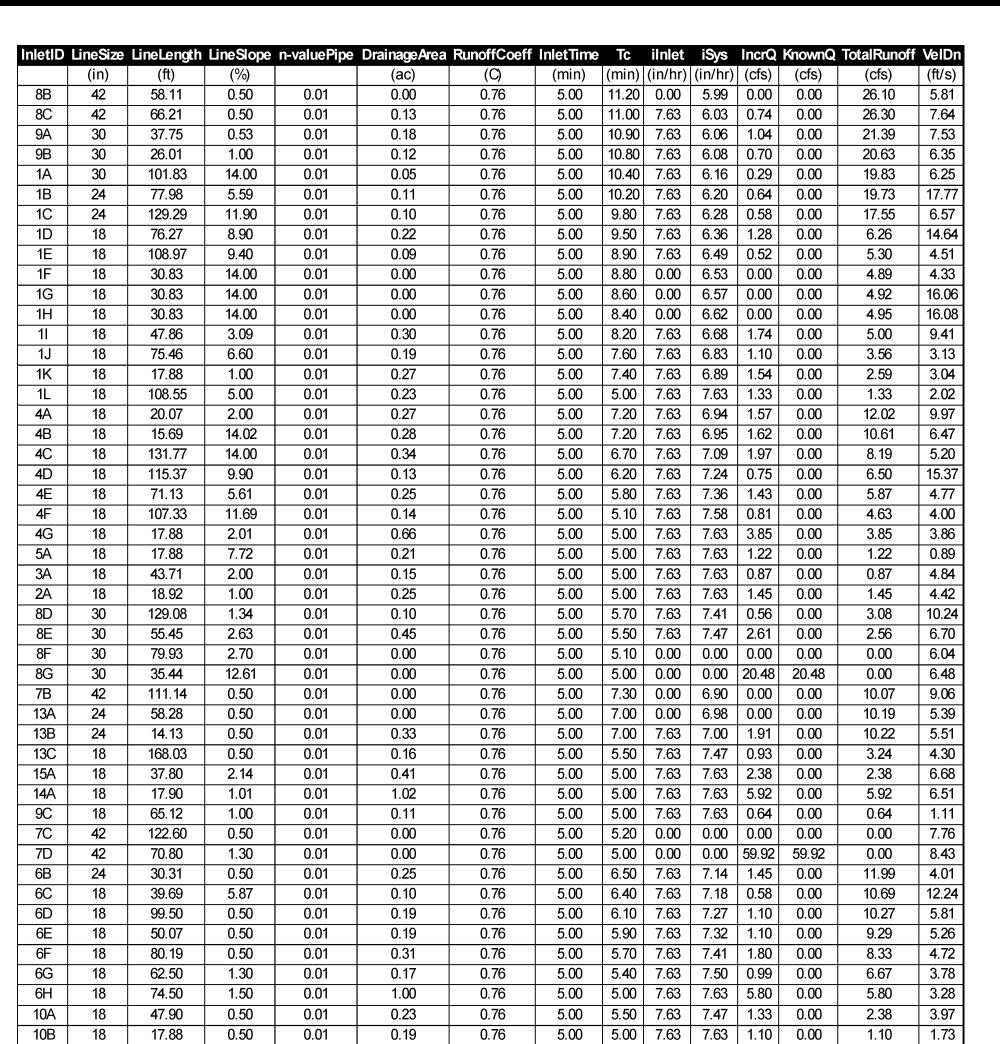
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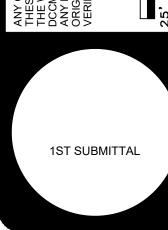




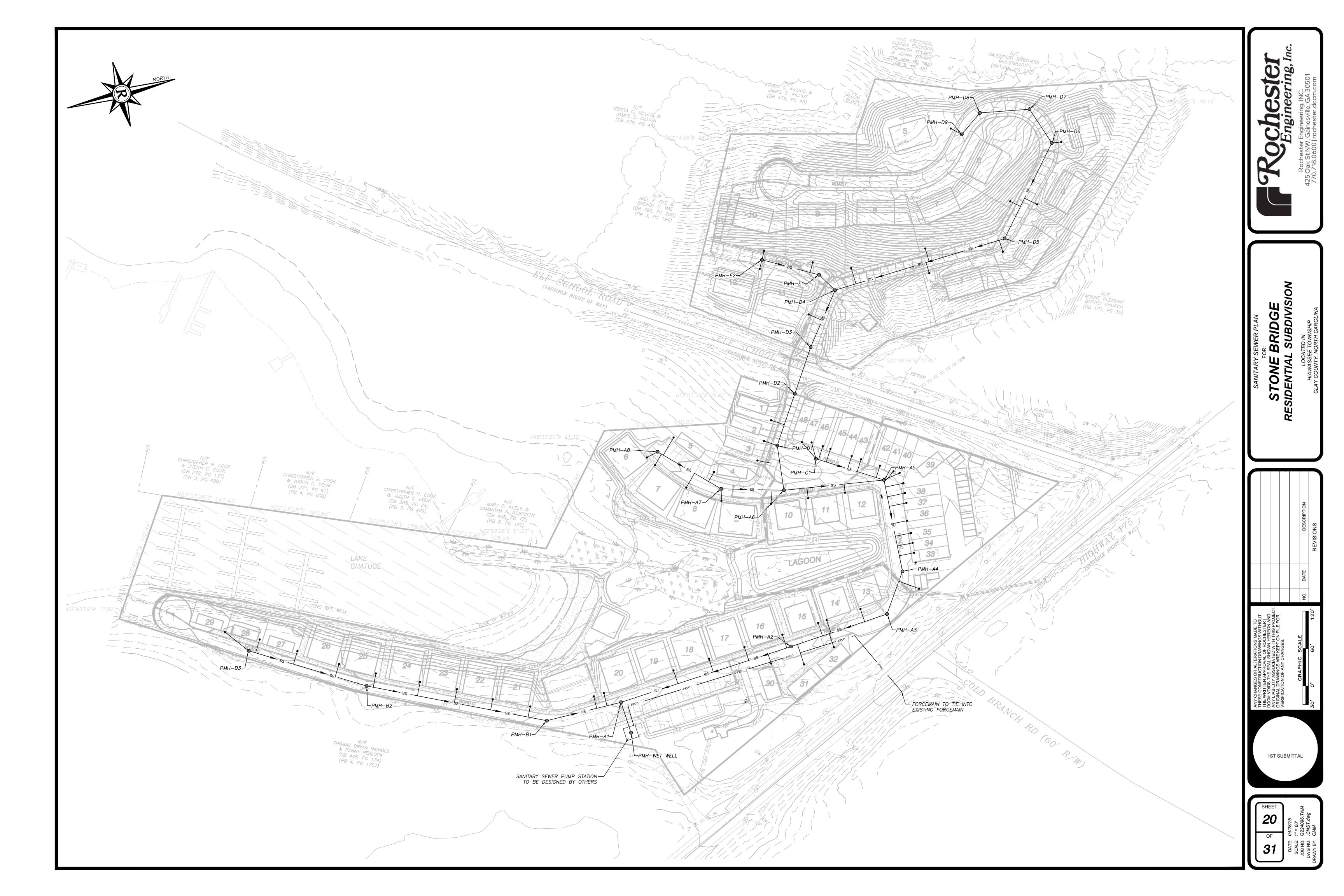




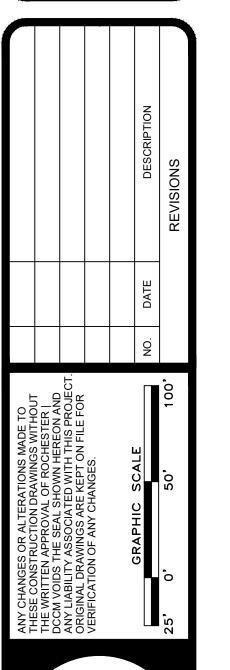
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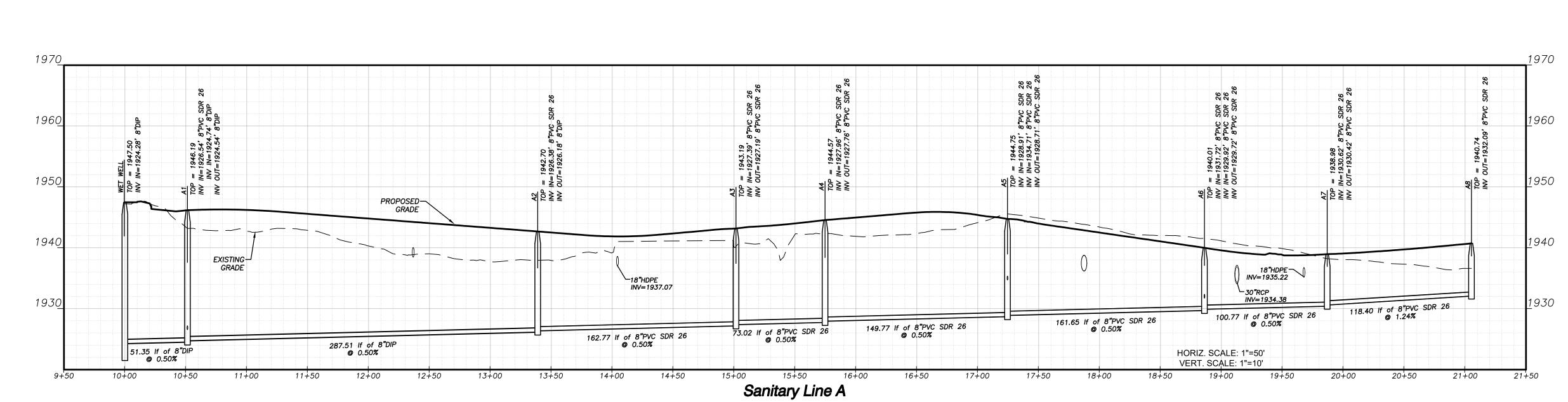
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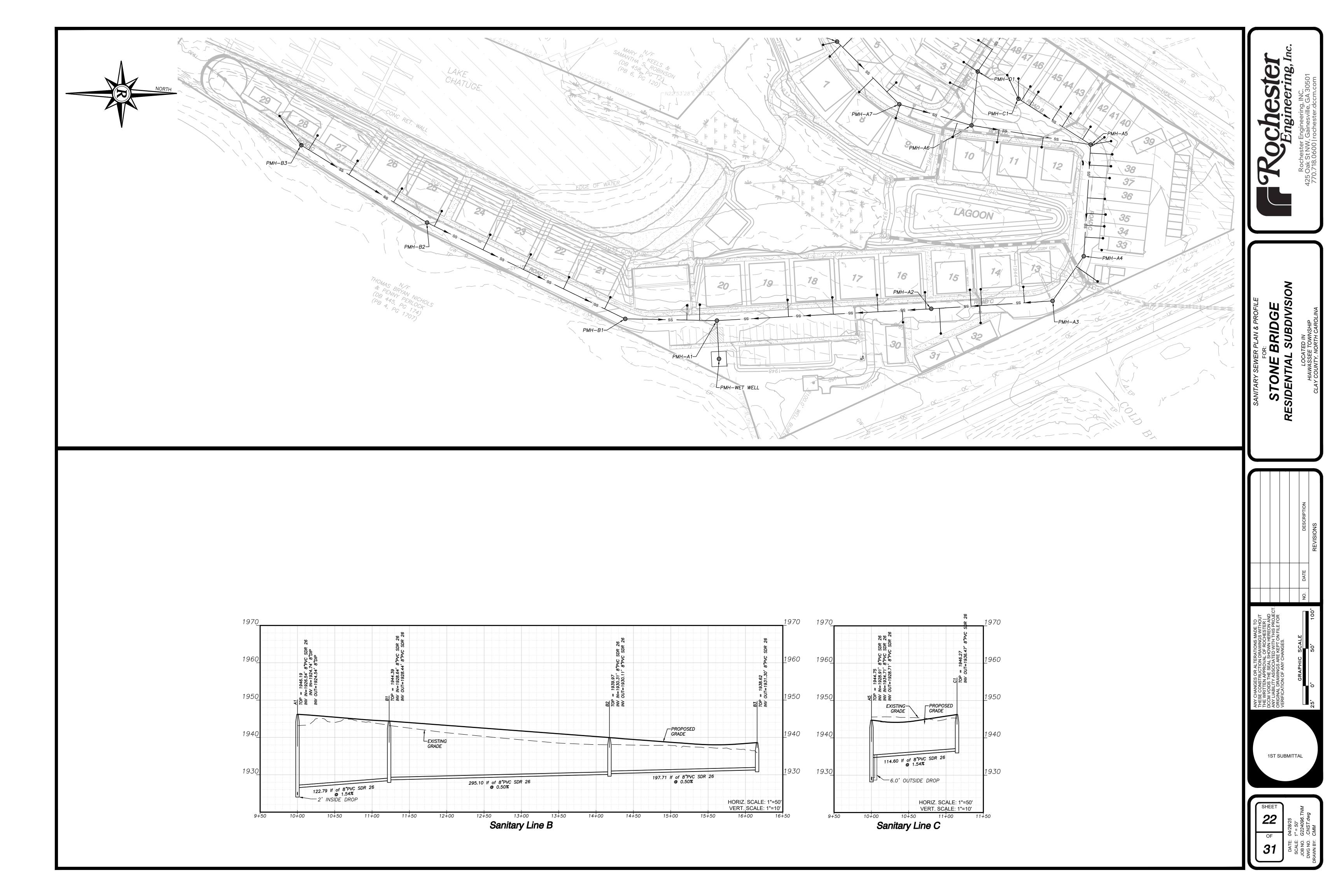


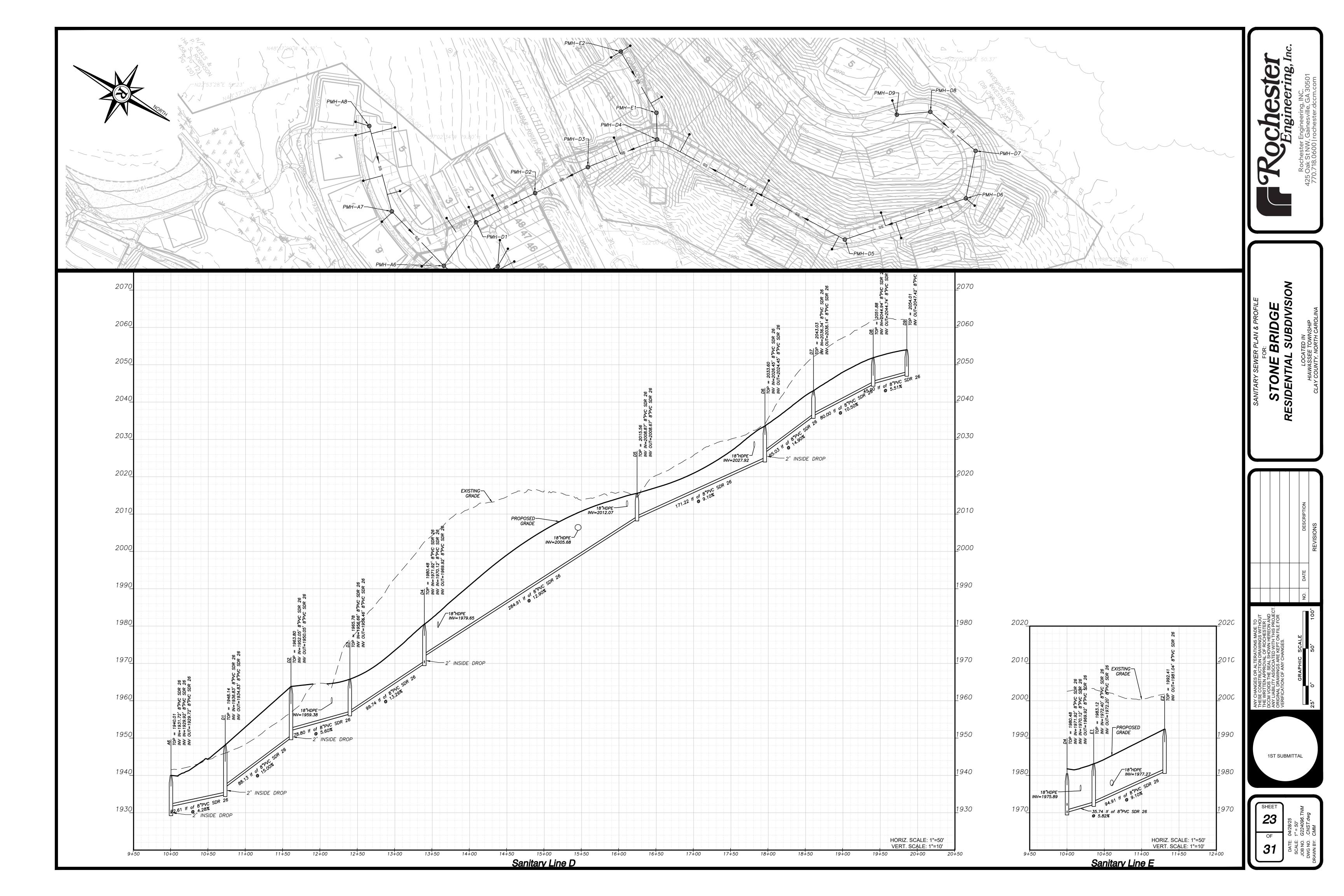


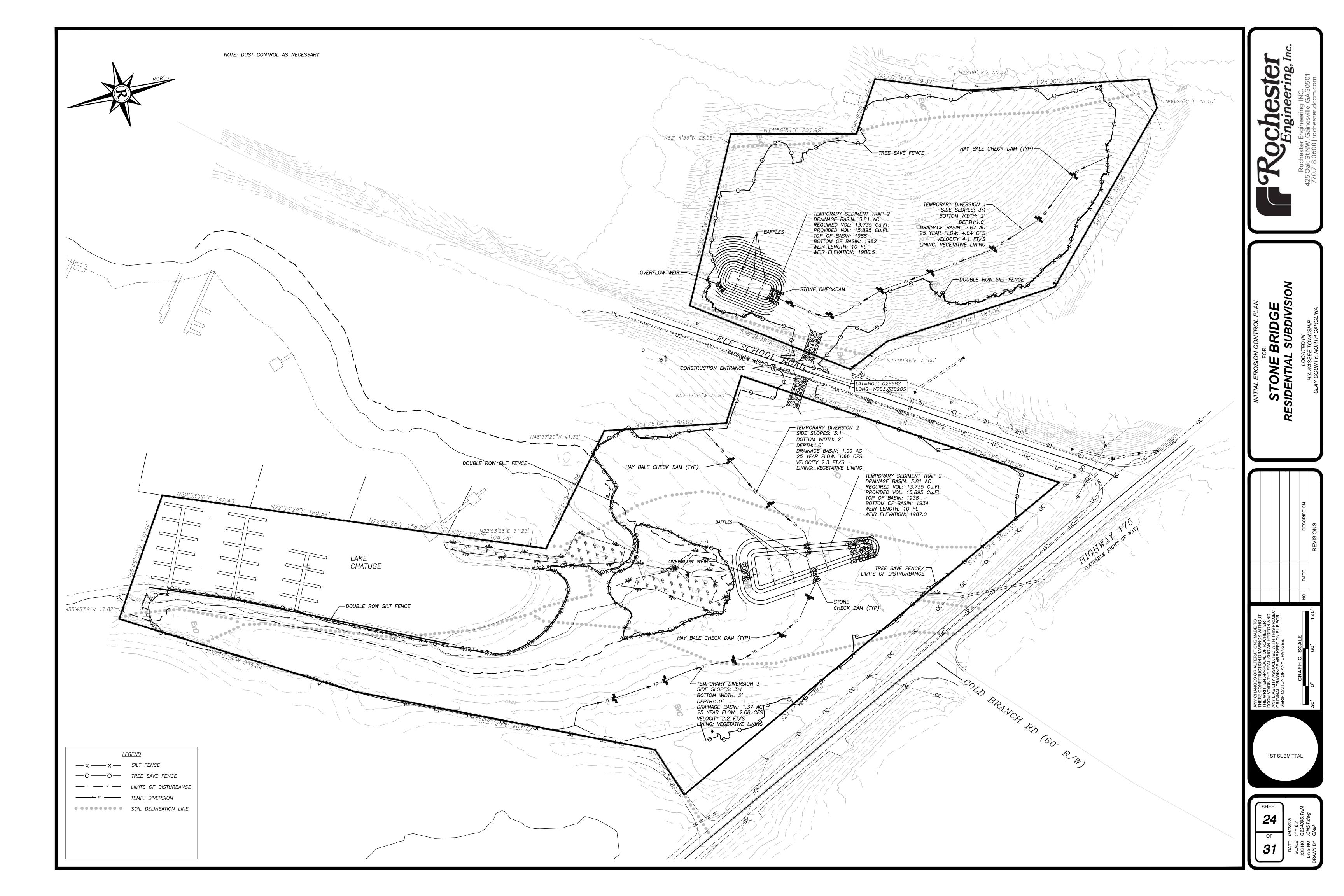


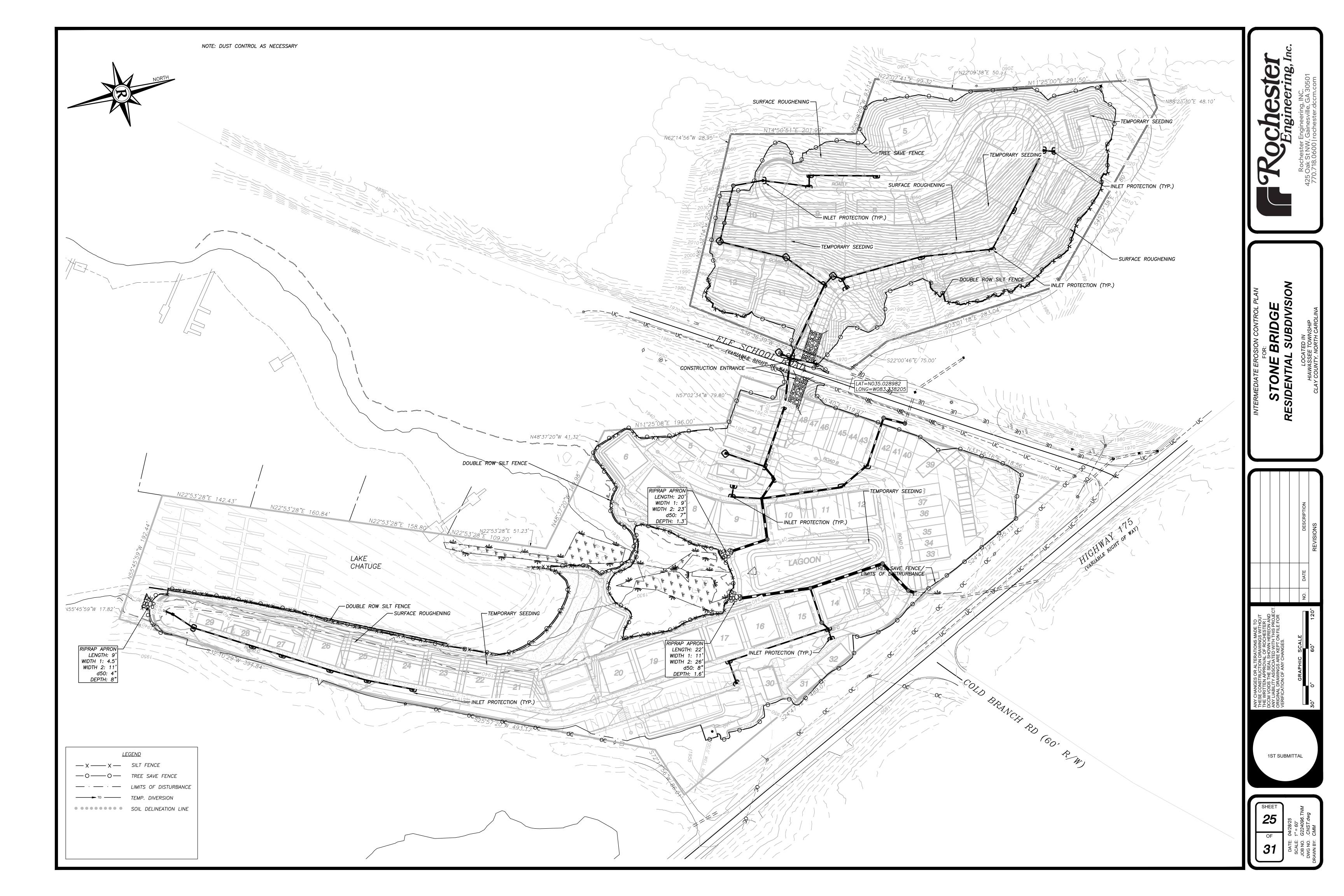
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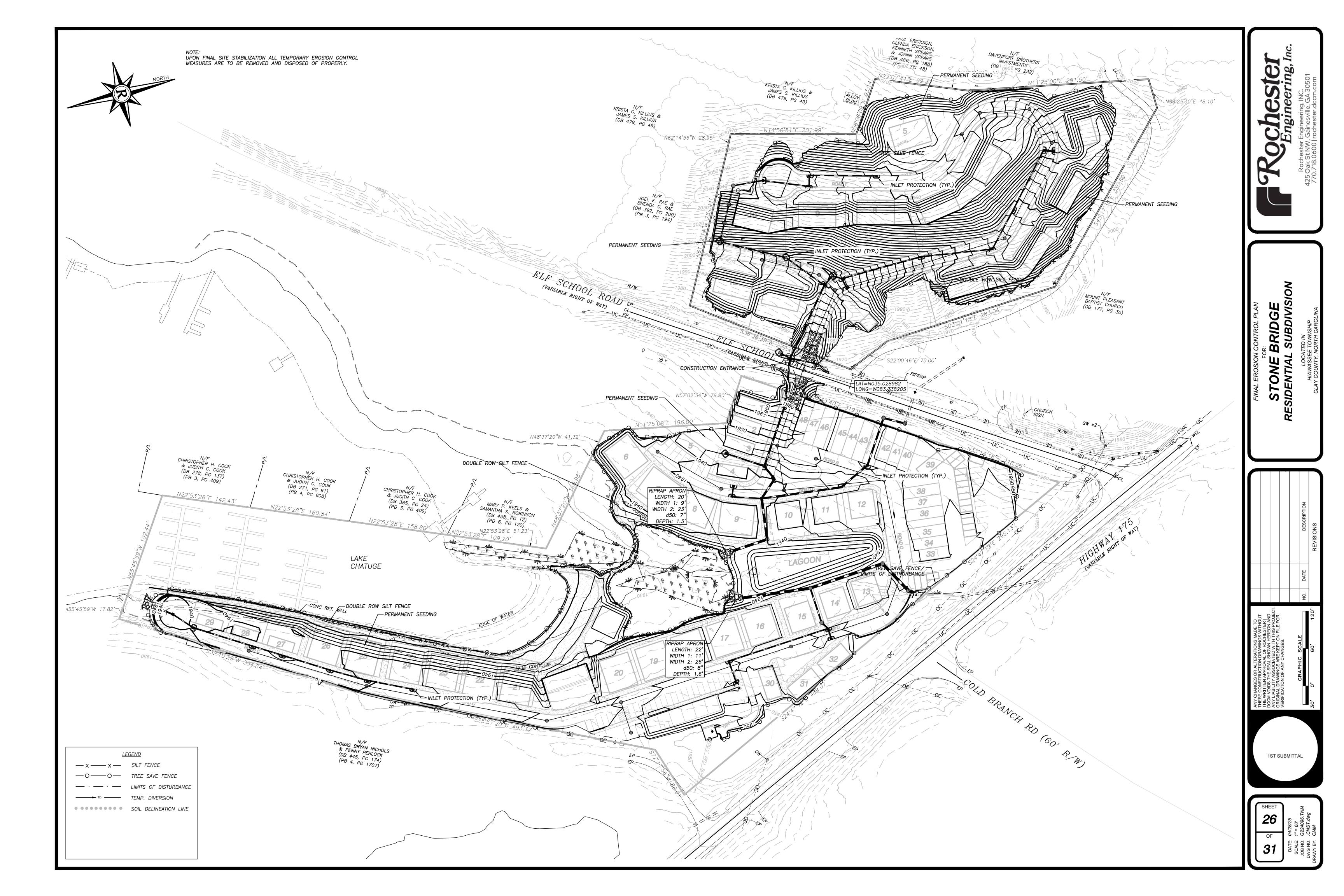












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EROSION CONTROL DETAILS

STONE BRIDGE

LOCATED IN HIAWASSEE TOWNSHIP

CLAY COUNTY, NORTH CAROLINA



425 Oak St NW, Gainesville, GA 30501

770.718.0600 | rochester.dccm.com

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

aplementing the details and specifications on this plan sheet will result in the construction 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.

CTION	E:	GROUND	S	TABILIZAT	TION	

	Re	quired Ground Stabil	lization Timeframes
Si	te Area Description	Stabilize within this many calendar days after ceasing land disturbance	(COV) 34/34/1 (A)
(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 are 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 4:1 -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 Zones -10 days for Falls Lake Watershed unless 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

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

- 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
- Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures.

UIPMENT AND VEHICLE MAINTENANCE

- Maintain vehicles and equipment to prevent discharge of fluids.
- Provide drip pans under any stored equipment.
- Identify leaks and repair as soon as feasible, or remove leaking equipment from the Collect all spent fluids, store in separate containers and properly dispose as
- hazardous waste (recycle when possible). Remove leaking vehicles and construction equipment from service until the problem has been corrected.
- Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

ITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

- Never bury or burn waste. Place litter and debris in approved waste containers. Provide a sufficient number and size of waste containers (e.g dumpster, trash
- receptacle) on site to contain construction and domestic wastes. Locate waste containers at least 50 feet away from storm drain inlets and surface
- waters unless no other alternatives are reasonably available. 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.
- Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
- Anchor all lightweight items in waste containers during times of high winds. Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
- Dispose waste off-site at an approved disposal facility. 9. On business days, clean up and dispose of waste in designated waste containers.

PAINT AND OTHER LIQUID WASTE

construction sites.

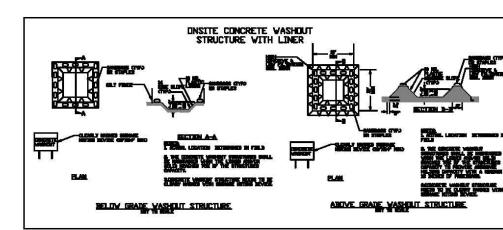
- Do not dump paint and other liquid waste into storm drains, streams or wetlands. Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Contain liquid wastes in a controlled area.
- 4. Containment must be labeled, sized and placed appropriately for the needs of site. 5. Prevent the discharge of soaps, solvents, detergents and other liquid wastes from

- Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place
- on a gravel pad and surround with sand bags. Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas.
- Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace with properly operating unit.

EARTHEN STOCKPILE MANAGEMENT

- Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably
- Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
- Provide stable stone access point when feasible.
- Stabilize stockpile within the timeframes provided on this sheet and in accordance 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.





CONCRETE WASHOUTS

- Do not discharge concrete or cement slurry from the site.
- 2. Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
- Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within lot perimeter silt fence.
- . Install temporary concrete washouts per local requirements, where applicable. If an alternate method or product is to be used, contact your approval authority for review and approval. If local standard details are not available, use one of the two types of temporary concrete washouts provided on this detail. Do not use concrete washouts for dewatering or storing defective curb or sidewalk
- sections. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and removed from project. Locate washouts at least 50 feet from storm drain inlets and surface waters unless it
- can be shown that no other alternatives are reasonably available. At a minimum, install protection of storm drain inlet(s) closest to the washout which could receive Locate washouts in an easily accessible area, on level ground and install a stone
- entrance pad in front of the washout. Additional controls may be required by the approving authority.
- Install at least one sign directing concrete trucks to the washout within the project limits. Post signage on the washout itself to identify this location.
- Remove leavings from the washout when at approximately 75% capacity to limit overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary products, follow manufacturer's instructions.
- 0. At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout.

HERBICIDES, PESTICIDES AND RODENTICIDES

- Store and apply herbicides, pesticides and rodenticides in accordance with label
- Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
- Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water
- or surface water. If a spill occurs, clean area immediately. Do not stockpile these materials onsite.

HAZARDOUS AND TOXIC WASTE

- Create designated hazardous waste collection areas on-site.

- 2. Place hazardous waste containers under cover or in secondary containment.
- 3. Do not store hazardous chemicals, drums or bagged materials directly on the ground.

NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

EFFECTIVE: 04/01/19

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

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

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

SECTION B: RECORDKEEPING 1. E&SC Plan Documentation

The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&SC plan shall be kept on site and available for inspection at all times during normal business hours.

Item to Document	Documentation Requirements
(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.
(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.
(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.
(d) The maintenance and repair requirements for all E&SC measures have been performed.	Complete, date and sign an inspection report.
(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.

Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:

(a) This General Permit as well as the Certificate of Coverage, after it is received.

(b) Records of inspections made during the previous twelve months. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.

3. Documentation to be Retained for Three Years All data used to complete the e-NOI and all inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

PART II, SECTION G, ITEM (4) DRAW DOWN OF SEDIMENT BASINS FOR MAINTENANCE OR CLOSE OUT

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:

- (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 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,
- 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,
- (e) Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices, and (f) 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.

NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

(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

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING

1. Occurrences that Must be Reported Permittees shall report the following occurrences: (a) Visible sediment deposition in a stream or wetland.

(b) Oil spills if:

deposition in a

stream or wetland

bypasses [40 CFR

(d) Unanticipated

bypasses [40 CFR

(e) Noncompliance

with the conditions

of this permit that

may endanger

environment[40]

CFR 122.41(I)(7)]

health or the

122.41(m)(3)]

122.41(m)(3)]

- They are 25 gallons or more,
- They are less than 25 gallons but cannot be cleaned up within 24 hours,
- They cause sheen on surface waters (regardless of volume), or
- They are within 100 feet of surface waters (regardless of volume).
- (c) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.
- (d) Anticipated bypasses and unanticipated bypasses.
- (e) Noncompliance with the conditions of this permit that may endanger health or the

2. Reporting Timeframes and Other Requirements

After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Department's Environmental Emergency Center personnel at (800)

(a) Visible sediment • Within 24 hours, an oral or electronic notification.

case-by-case basis.

	Division staff may waive the requirement for a written report on a case-by-case basis. If the stream is named on the NC 303(d) list as impaired for sedime related causes, the permittee may be required to perform addition monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure comp with the federal or state impaired-waters conditions.
(b) Oil spills and release of hazardous substances per Item 1(b)-(c) above	Within 24 hours, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.
(c) Anticipated	A report at least ten days before the date of the bypass, if possible

 A report at least ten days before the date of the bypass, if possible. The report shall include an evaluation of the anticipated quality and effect of the bypass. Within 24 hours, an oral or electronic notification.

• Within 7 calendar days, a report that includes an evaluation of the

Reporting Timeframes (After Discovery) and Other Requirements

Within 7 calendar days, a report that contains a description of the

sediment and actions taken to address the cause of the deposition.

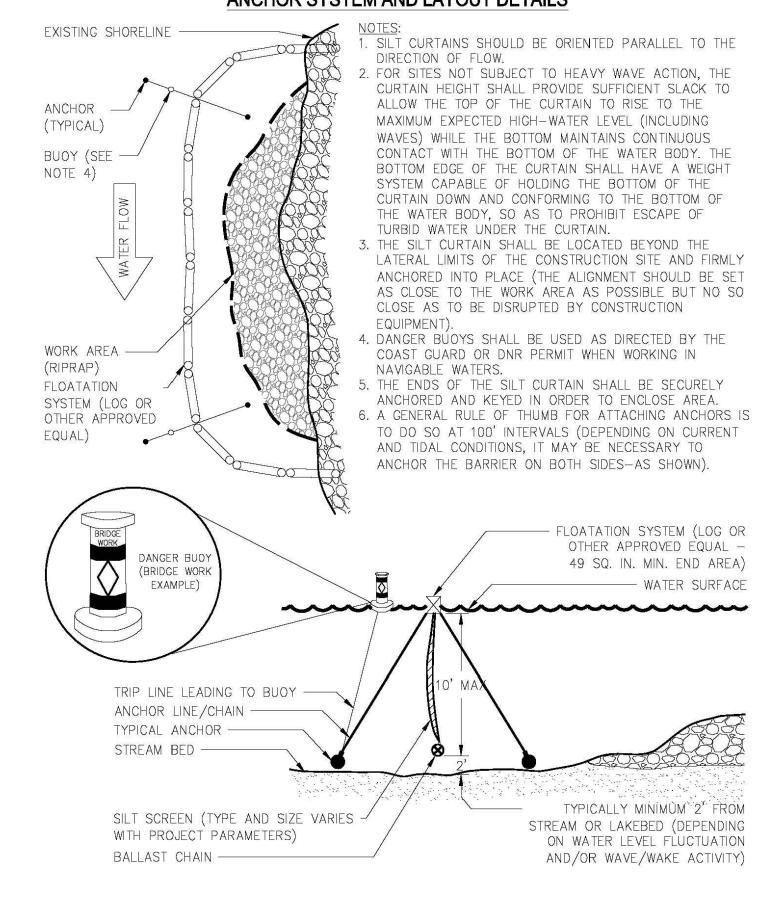
quality and effect of the bypass. Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. [40 CFR 122.41(I)(6).

Division staff may waive the requirement for a written report on a



TURBIDITY CURTAIN SYSTEM

ANCHOR SYSTEM AND LAYOUT DETAILS



Temporary Seeding Recommendations for Late Winter and Early Spring

Table 6.10a | Seeding mixture

Rye (grain) Annual lespedeza (Kobe in Piedmont and Coastal Plain,

Korean in Mountains)

Rate (lb/acre)

120

Omit annual lespedeza when duration of temporary cover is not to extend beyond June.

Seeding dates Mountains—Above 2500 feet: Feb. 15 - May 15 Below 2500 feet: Feb. 1- May 1 Piedmont—Jan. 1 - May 1 Coastal Plain—Dec. 1 - Apr. 15

Soil amendments Follow recommendations of soil tests or apply 2,000 lb/acre ground agricultural limestone and 750 lb/acre 10-10-10 fertilizer.

Apply 4,000 lb/acre straw. Anchor straw by tacking with asphalt, netting,

Refertilize if growth is not fully adequate. Reseed, refertilize and mulch

or a mulch anchoring tool. A disk with blades set nearly straight can be used as a mulch anchoring tool. Maintenance

immediately following erosion or other damage.

1ST SUBMITTAL

EFFECTIVE: 04/01/19

6.10.4

Seeding dates
Mountains—Aug. 15 - Dec. 15
Coastal Plain and Piedmont—Aug. 15 - Dec. 30 Soil amendments Follow soil tests or apply 2,000 lb/acre ground agricultural limestone and 1,000 lb/acre 10-10-10 fertilizer.

Apply 4,000 lb/acre straw. Anchor straw by tacking with asphalt, netting, or a mulch anchoring tool. A disk with blades set nearly straight can be used as a mulch anchoring tool.

Maintenance Repair and refertilize damaged areas immediately. Topdress with 50 lb/acre of nitrogen in March. If it is necessary to extent temporary cover beyond June 15, overseed with 50 lb/acre Kobe (Piedmont and Coastal Plain) or Korean (Mountains) lespedeza in late February or early March.

Practice Standards and Specifications

Successft. NON-NA	Successful development depends on planting date (effectiveness goal: 6 mo 3 yrs. without an ongoing maintenance program) NON-NATIVE SPECIES	no spuede	planting	date (effe	ctivenes			s. without	an ongo	Ing maint	enance pr	ogram)	
					ð	Optimal Planting Dates	ig Dates						
Common Name	Botanical Name / Cultivar	Native /	Broadcast Seeding Rates ba/acre	Fertilization/ limestone lbs/acre	Mountains	Pledmont	Coasta	Sun/Shade tolerant	Wetlands	Riparlan Buffers	Invasive Yes or No	Installation / Maintenance Considerations	Other Information, commentary
Sericea Lespedeza	Lespedeza cuneata Dumonti			By soil test	9/1 - 6/1	9/1 - 5/1	10/1 - 4/1			꽃	88	Respor	Severe Threat Invasive species
Crown Vetch	Securigena varia	_	15 lbs	By soil test	3/15-4/30	R.	₩.	Sun	¥	Ϋ́ X	Yes	Highly competitive,	Prefers neutral soils
	(Coronilia varia)											not recommended unless an acceptable atternative is not available.	
Confined Grass	Emmochine onhimmi	_	r.	By enil fact	02	Factors	0/1 5/1	Š	Q	Q	2	Similificant maintenance	Does not followste high traffic
		-	10 lbs. for r	12		only	3					may be required to obtain desired cover	Acceptable for sodding
KY 31 Tall Fescue	Schedonorus phoenia	_	100 lbs	By soil test	8/15-5/1	9/1-4/15	9/30 - 3/15	Sun/	Ä	쫖	Yes	If utilized, it is imperative	Acceptable for sodding
	(r-estuca arundinacaa)	(g)						mod. Shade				that maintenance includes a containment plan	
KY Blue Grass	Poe prafensis	-	15 lbs	By soil test	8/15-5/1	¥	¥	Sun	Ä	ž	Yes	If utilized, it is imperative	Prefers neutral soils, highly
												that maintenance includes a containment plan	competitive, not recommended unless an acceptable alternative is not available.
													Acceptable for sodding
Hard Fescue	Festuca brevipila (Festuca longifolia)		15 lbs	By soil test	8/1 - 6/1	瓷	¥	Shade	X.	岳	No.	Not recommended for slopes greater than 5%	Low growing, bunch grass
Bermuda Grass	Cynodon dactylon	_	25 lbs	By soil test	×	4/15-6/30	4/15-6/30	Sun	Ä	Ä	Yes	If utilized, it is imperative	Extremely aggressive, not
												that maintenance includes a containment plan	recommended and should be avoided unless an acceptable alternative is not available.
													May be sodded or sprigged

6.11.15

Practice Standards and Specifications

6.11.17

6.11.18

6.11.14

	NATIVE SPECIES												
					Opti	Optimal Planting Dates	Dates						
Common Name	Botanical Name / Cultivar	Native/ Infroduced	See Table 6.ff.d for variety	Fertilization/ limestone lbs/arre	Mountains	Piedmont	Coastal S	Sun/Shade	Wellands	Riparian Buffers	Invasive <u>Y</u> es or	Installation / Maintenance Considerations	Other information,
	Sorghastrum nutans /	z	B	By soil test	_	_	12/1-4/1	+	¥	Well	i 2	Responds well to controlled	Western coastal plain only
0	Cheyenne									drained		burns. Mix with 3 to 5 other seed	
												vaneties that have similar soil drainage adaptations.	
						_							
<i>σ</i>).	Sorghasfrum nutans /	z	В	By soil test	W.	12/1 - 5/1	1/1 -5/1	Sun	¥	Well	oN N	Responds well to	Only Indiangrass adaptable to
7	Lomenta									drained		controlled burns. Mix with 3 to 5 other seed varieties	Eastern coastal plain (Zone 8)
												that have similar soil drainage adaptations.	
0	Dichanthelism	z	C	By soil test	5/1-4/15	5/1 - 4/1	NR.	or o	Yes	Poorty	Š	Responds well to	
1 2	clandestinum / Tioga							Shade		drained to	Т	controlled burns. Mix with	
										drought		3 to 5 other seed varieties	
												that have similar soil	
												drainage adaptations.	
Bluestem	Andropogon gerardii /	z	Q	By soil test	12/1-4/15	121 - 4/1	NR	Sun	NR.	Well	No	Responds well to	Warm season grass
Ā	Rountree									drained		controlled burns. Mix with	
												3 to 5 other seed varieties	
												drainage adaptations.	
Bluestem A	Andropogon gerardii /	z	O	By soil test	12/1-4/15	121 - 41	NR.	Sun	Ä	Well	9V	Responds well to	Warm season grass
×	Kaw									drained		controlled burns. Mix with	
												3 to 5 other seed varieties	
												that have similar soil	
												drainage adaptations.	
Bluestem	Andropogon gerardii /	z	O	By soil test	12/1-4/15	12/1 - 4/1	12/1-5/1	Sun	Æ	Well	9	Responds well to	Warm season grass
E	Earl									drained		controlled burns. Mix with)
												3 to 5 other seed varieties	
												that have similar soil	
												drainage adaptations.	
e Bluestem S	Schizachvrium	z	ш	By soil test	12/1-4/15	¥	W.	Sun	¥	Well	9V	Responds well to	Warm season grass
	scoparium / Aldous									drained		controlled burns. Mix with	
												3 to 5 other seed varieties	
												that have similar soil	
												drainage adaptations.	
le Bluestem S	Schizachyrium	z	ш	By soil test	12/1-4/15	12/1 - 4/1	NR.	Sun	Æ	Well	9 N	Responds well to	Warm season grass
o.	scoparium / Cimmaron									drained		controlled burns. Mix with	
												3 to 5 other seed varieties	
												that have similar soil	

mon Name Schi													
ame Sch scop					Š	Optimal Planting Dates	Dates						
	Botanical Name / Cultivar	<u>N</u> ative /	See Table 641.d for variety	Fertilization/ limestone lbs/acre	Mountaine	o more de la company de la com	Coastal 6	Sun/Shade tolerant	Wetlands	Riparian Buffers	Invasive <u>Y</u> es or	Installation / Main tenance Considerations	Other information,
scot	Schizachynum	Z	° ш	By soil test	NR	NR	12/1-4/1		NR	Welli	g S	Responds well to	Warm season grass
	scoparium / Common									drained		controlled burns. Mix with	
												3 to 5 other seed varieties that have similar soil	
												drainage adaptations.	
oodrood min	Cinna arrandinassas	2	Ц	too of	1974 4745	1974 474	19/4 4/4	9 0	90%	Doorly to	2	Mix with 3 to 5 other cood	Morm cose on grace
		2		100 60	2			mod. Shade		well drained		varieties that have similar soil drainage adaptations	Ardin Scassi glass
												-	
grass Leer	Leersia oryzoides	z	9	By soil test	12/1-4/15	12/1 - 4/1	12/1-4/1	Sun	Yes	Poorly	No	Mix with 3 to 5 other seed	Warm season grass
										arained		varieties that have similar soil drainage adaptations	
oodoats Cha.	Chasmanthium latifolium	z	Ξ	By soil test	3/1 - 5/15	2/15 - 4/1	3/15-3/20	Sun &	NR.	Mell	N _o	Mix with 3 to 5 other seed	Cool season grass
					7/15-8/15	7/15-8/15 8/15 - 10/159/1 - 11/1 mod. Shade	3/1 - 11/1 n	nod. Shade		drained		varieties that have similar)
												soil drainage adaptations	
Wild Rye Elym	Elymus virginicus	z	_	By soil test	3/1 - 5/15	2/15 - 4/1	2/15-3/20	Sun &	NR	Well	No	Mix with 3 to 5 other seed	Cool season grass
							3/1 - 11/1 n	nod. Shade		drained		varieties that have similar	
												soil drainage adaptations	
Bottlebrush Elyn	Elymus hystrix	z	ſ	By soil test	3/1 - 5/15	2/15 - 4/1	W.	Sun &	N.	Well	8	Mix with 3 to 5 other seed	Cool season grass
					7/15-8/15	7/15-8/15 8/15 - 10/15	u u	mod. Shade		drained		varieties that have similar	
												soil drainage adaptations	
June	Juncus effusus	z	¥	By soil test	12/1 - 5/15	12/1 - 5/1 12/1-4/15	12/1-4/15	Sun	Yes	Poorly	8	Mix with 3 to 5 other seed	
					8/15-10/15 9/1 - 11/1	9/1 - 11/1				drained		varieties that have similar	
												soil drainage adaptations	
Sedge Care	Carex furida	z	_	By soil test	12/1 - 5/15	12/1 - 5/1	12/1-4/15	Sun	Yes	Poorly	%	Mix with 3 to 5 other seed	
					8/15-10/15	9/1 - 11/1				drained		varieties that have similar	
												soil drainage adaptations	
Care	Carex vulpinoidea	z	7	By soil test	12/1 - 5/15	12/1 - 5/1 12/1-4/15	12/1-4/15	Sun	Yes	Poorly	N _o	Mix with 3 to 5 other seed	
					8/15-10/15	9/1 - 11/1				drained		varieties that have similar	
												soil drainage adaptations	
NOTE: 1. Seedin 2. Fertilize	NOTE: 1. Seeding rates are for hulled seed unless otherwise noted. 2. Fertilizer & Limestone - rates to be applied in absense of soils tests. Rec	d seed unles es to be app	ss otherwise no	oted.	ts. Recomme	anded applic	ation rate ɛ	is sumes sig	inificantly c	listurbedsite	soils with	rwise noted. Besense of soils feets. Recommended application rate assumes significantly disturbed site soils with little or no residual value.	
4. Nati	ve, warm season gras	ses require s	ix or more mor	or application of this to germi	n area. inate under o	ptimum con	ditions. If the	hey are plan	ited in the si	ummer, ther	ı awhole)	3. In means operate not this region of application area. 4. Native, warm season grasses require six or more months to germinate under optimum conditions. If they are planted in the summer, then a whole year will have to pass before they germinate.	/ germinate.
5. Inva 6. Spri	 Invasive designation as determined by the N.C. Exotic Pest Part Council and N.C. Native Plant Society. Sprigging is not recommended for immediate stabilization unless terrain is flat, heavymuldh is applied and no other immediate stabilization method is practical 	termined by ded for imm	the N.C. Exotrediate stabiliza	c Pest Pant ition unless t	Council and terrain is flat,	N.C. Native heavymulch	lant Socie is applied	nty . and no othe	r immediate	stabilization	η method	is practical.	

Rev. 5/08

Practice Standards and Specifications **Table 6.11.d**

Seed Mixes for Native Species (lbs/ac)
When Mixed with 3, 4, or 5 Other Native Species

	3 Other (total 4 species)	4 Other (total 5 species)	5 Other (total 6 species
Switch Grasses (A)	3.5 lbs.	3.0 lbs.	2.5 lbs.
Indian Grasses (B)	7.0 lbs.	6.0 lbs.	5.0 lbs.
Deertongue (C)	6.0 lbs.	5.0 lbs.	4.0 lbs.
Big Bluestem (D)	7.0 lbs.	6.0 lbs.	5.0 lbs.
Little Bluestem (E)	7.0 lbs.	6.0 lbs.	5.0 lbs.
Sweet Woodreed (F)	2.5 lbs.	2.0 lbs.	1.5 lbs.
Rice Cutgrass (G)	6.0 lbs.	5.0 lbs.	4.0 lbs.
Indian Woodoats (H)	2.5 lbs.	2.0 lbs.	1.5 lbs.
Virginia Wild Rye (I)	6.0 lbs.	5.0 lbs.	4.0 lbs.
Eastern Bottlebrush Grass (J)	2.5 lbs.	2.0 lbs.	1.5 lbs.
Soft Rush (K)	2.5 lbs.	2.0 lbs.	1.5 lbs.
Sedges (L)	2.5 lbs.	2.0 lbs.	1.5 lbs.

With the native varieties, the seed mix should be in the range of 15 pounds per acre.

Depending on availability of native seeds adaptable to North Carolina, the percentage of a particular variety used may be reduced or increased accordingly. Although diversity is desirable, it is imperative that the primary crop develop and become an effective protective cover. In addition to the native species mix, additional nurse crop species must be included to provide immediate stabilization and an adequate ground cover.

6.11.19 Rev. 5/08

BRIDGE STONE

1ST SUBMITTAL

6.11.16 Rev. 5/08

6.10.5

6.10.6

Practice Standards and Specifications

In the Piedmont and Mountains, a small-stemmed Sudangrass may be

Follow recommendations of soil tests or apply 2,000 lb/acre ground

Apply 4,000 lb/acre straw. Anchor straw by tacking with asphalt, netting,

or a mulch anchoring tool. A disk with blades set nearly straight can be used as a mulch anchoring tool.

Refertilize if growth is not fully adequate. Reseed, refertilize and mulch immediately following erosion or other damage.

agricultural limestone and 750 lb/acre 10-10-10 fertilizer.

Rate (lb/acre)

Table 6.10b **Seeding mixture**

substituted at a rate of 50 lb/acre.

Seeding dates Mountains—May 15 - Aug. 15

Piedmont—May 1 - Aug. 15 Coastal Plain—Apr. 15 - Aug. 15

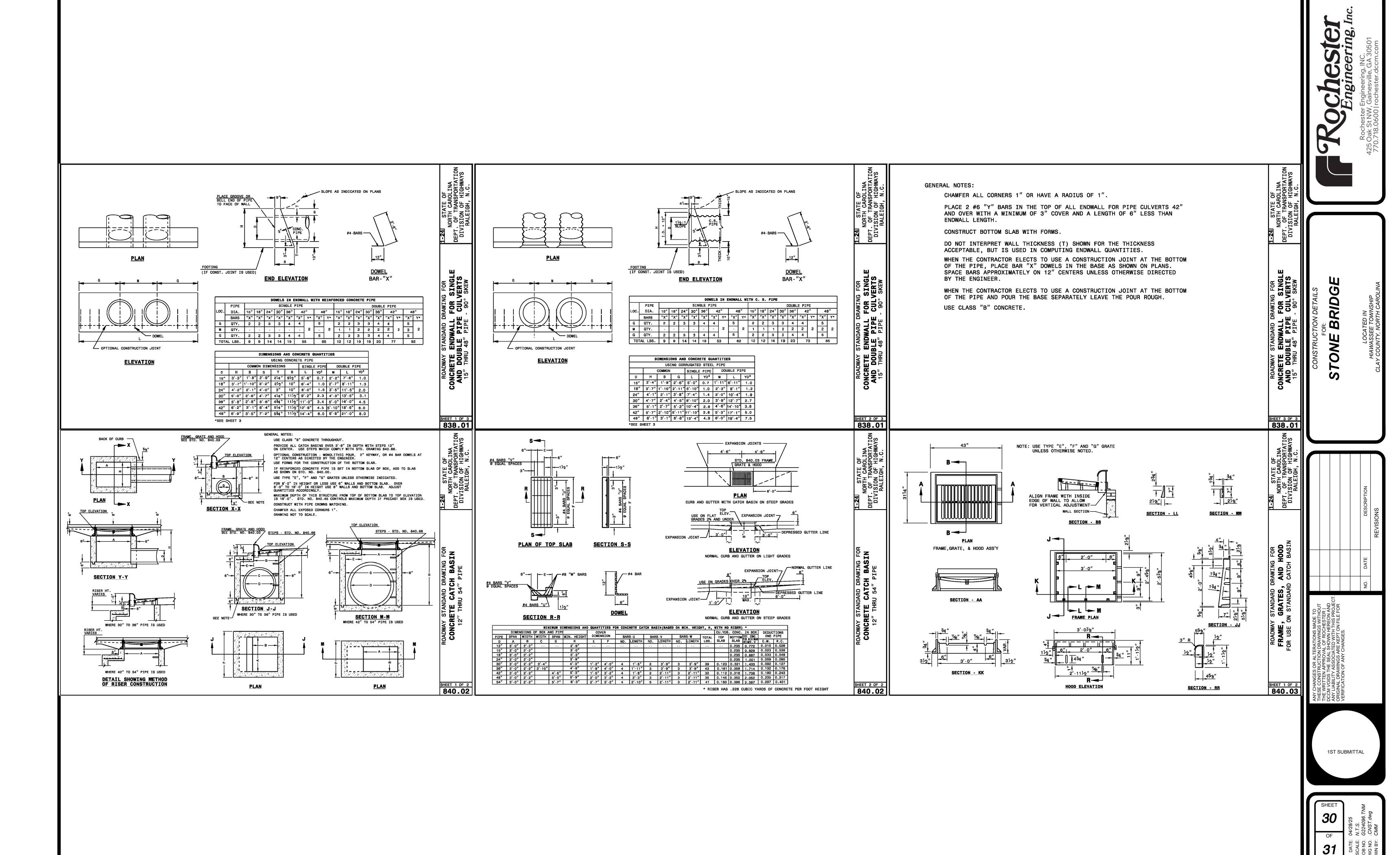
Soil amendments

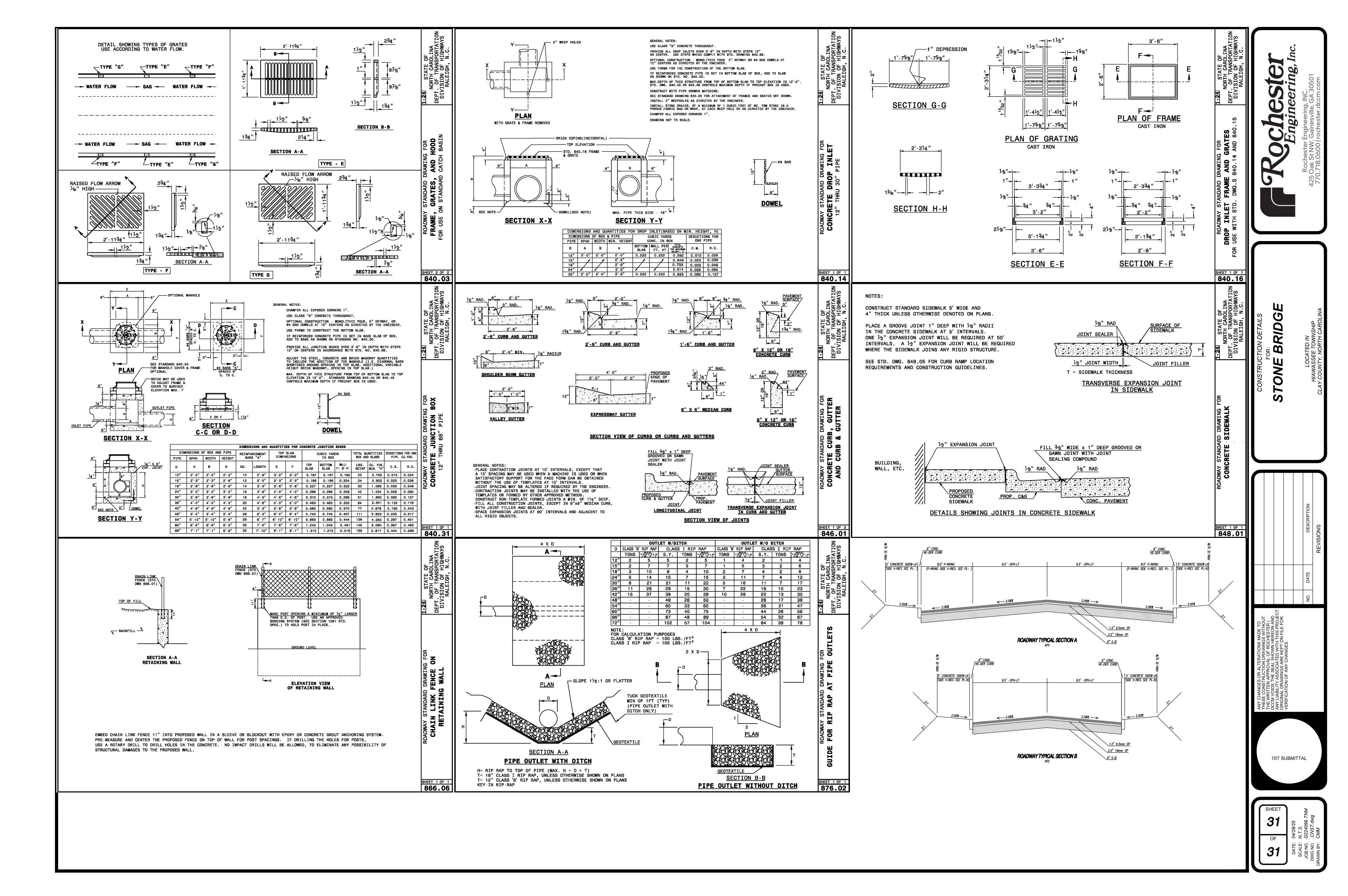
Maintenance

Temporary Seeding Species

Recommendations for German millet Summer

Rev. 5/08





JOINT APPLICATION FOR STONE BRIDGE RESIDENTIAL / MARINA PROJECT CLAY COUNTY, NORTH CAROLINA

ATTACHMENTS

ATTACHMENT 1 – STONE BRIDGE RESIDENTIAL / MARINA PROJECT MAP SET

ATTACHMENT 2 - PROJECT DESCRIPTION, ALTERNATIVES ANALYSIS, AVOIDANCE & MINIMIZATION

ATTACHMENT 3 – USACE FORM 4345

ATTACHMENT 4 – STONE BRIDGE RESIDENTIAL DEVELOPMENT ENGINEERING PLANS

ATTACHMENT 5 – STONE BRIDGE MARINA COVE DEEPENING ENGINEERING PLANS

ATTACHMENT 6 – IPAC SPECIES LIST

ATTACHMENT 7 – STONE BRIDGE DELINEATION REPORT

ATTACHMENT 8 – ADJACENT PROPERTY OWNERS

CONSTRUCTION DRAWINGS **FOR**

LOCATED IN

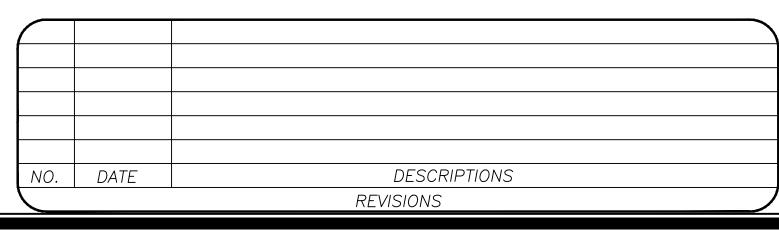
HIAWASSEE TOWNSHIP CLAY COUNTY, NORTH CAROLINA

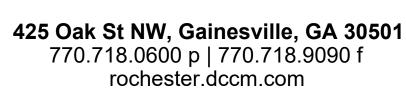
CONSTRUCTION SCHEDULE	1st Month	2nd Month	3rd Month	4th Month	5th Month	6th Month	7th Month	8th Month
MAINTAIN ALL EROSION CONTROL BMPs								
INSTALL PHASE 1 EROSION CONTROL BMPs								
CLEARING & GRUBBING								
INSTALL PHASE 2 EROSION CONTROL BMPs								
GRADING								
STORM & SANITARY SEWERS								
CURB & GUTTER								
INSTALL PHASE 3 EROSION CONTROL BMPs								
WATER LINES								
PAVING								
PERMANENT VEGETATION & LANDSCAPING								

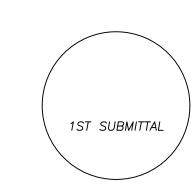
PROPOSED DEVELOPMENT BY: BROWN HAVEN HOMES



TAX PARCEL ID: 548901284729, 548901293357, 548901292054, & 548901199661 G224096.TNM







01/08/25

		
NO.	DATE	DESCRIPTIONS
		REVISIONS

OWNER & DEVELOPER:

BROWN HAVEN HOMES 837 HWY 400 SUITE 105 DAWSONVILLE, GA 30534 (706) 970-2456 john@brownhavenhomes.com

24 HOUR CONTACT:

JOHN ALLEN (706) 970-2456 john@brownhavenhomes.com

ENGINEERING CONTACT:

ROCHESTER ENGINEERING, INC. MICHAEL STREAM, P.E. (770) 718-0600 mstream@dccm.com

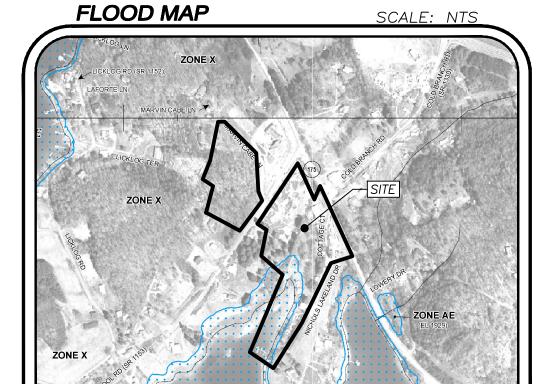
SURVEY CONTACT:

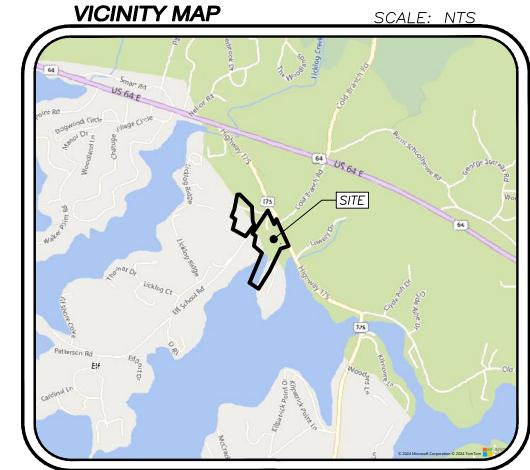
ROCHESTER ENGINEERING, INC. JARROD BLACK, P.L.S. (770) 718-0600 jblack@dccm.com

	Sheet List Table
Sheet Number	Sheet Title
1	COVER SHEET
2	GENERAL NOTES
3	EXISTING SITE PLAN
4	EROSION CONTROL PLAN
5	EROSION CONTROL DETAILS
6	EROSION CONTROL DETAILS

PORTIONS OF THIS PROPERTY ARE LOCATED IN A FLOOD HAZARD ZONE "AE" AS PER F.E.M.A. INSURANCE RATE MAP

OF CLAY COUNTY, NORTH CAROLINA. COMMUNITY PANEL NO. 3700548900J EFFECTIVE DATE NOVEMBER 19, 2008.





GENERAL SITE NOTES:

1. "PRIOR TO STARTING CONSTRUCTION CONTRACTOR SHALL BE RESPONSIBLE TO MAKE SURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES."

2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE REQUIREMENTS AND STANDARDS OF THE LOCAL GOVERNING AUTHORITY.

3. THE RIGHT OF WAY INFORMATION, TOPOGRAPHY, UTILITIES, AND PHYSICAL FEATURES WERE TAKEN FROM A TOPOGRAPHIC SURVEY AND BOUNDARY PLAT CONDUCTED BY ROCHESTER & ASSOCIATES, INC. FIELD DATA WAS COLLECTED IN MAY OF 2018.

4. THE LOCATIONS OF UNDERGROUND FACILITIES SHOWN ON THIS PLAN ARE BASED ON FIELD SURVEYS AND LOCAL UTILITY COMPANY RECORDS. IT SHALL BE THE CONTRACTOR'S FULL RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES TO LOCATE THEIR FACILITIES PRIOR TO STARTING CONSTRUCTION. NO ADDITIONAL COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR DAMAGE AND REPAIR TO THESE FACILITIES CAUSED BY HIS WORK FORCE.

5. ALL DIMENSIONS AND GRADES SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE OWNER'S CONSTRUCTION MANAGER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN OR GRADE CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.

6. ALL DIMENSIONS ARE TO THE BACK OF CURB UNLESS OTHERWISE

7. ANY CHANGES OR ALTERATIONS MADE TO THESE CONSTRUCTION DRAWINGS WITHOUT THE WRITTEN APPROVAL OF ROCHESTER AND ASSOCIATES, INC. VOIDS THE SEAL SHOWN HEREON AND ANY LIABILITY ASSOCIATED WITH THIS PROJECT. THE ORIGINAL DRAWINGS ARE KEPT ON FILE FOR VERIFICATION OF ANY CHANGES.

8. ALL CONSTRUCTION SHALL CONFORM TO CURRENT APPLICABLE CLAY COUNTY STANDARDS AND SPECIFICATIONS.

9. SITE IS LOCATED IN HIAWASSEE TOWNSHIP, CLAY COUNTY, NORTH

10. PROPOSED USE: 3 NEW DOCKS, LAKE DREDGING, WALL, SIDEWALK & BEACH CONSTRUCTION

11. DEVELOPER: BROWN HAVEN HOMES

12. CONTRACTOR SHALL NOTIFY CLAY COUNTY 24 HOURS BEFORE THE BEGINNING OF EVERY PHASE OF CONSTRUCTION.

13. UTILITY SERVICE:

WATER – COMM. – POWER –

14. 24 HOUR CONTACT: JOHN ALLEN
MOBILE: (706) 970-2456 EMAIL: JOHN@BROWNHAVENHOMES.COM

15. ENGINEERING CONTACT: JEREMY FRYDRYCH, PE, (678) 450-5203

16. PORTIONS OF THIS PROPERTY ARE LOCATED IN A FLOOD HAZARD

ZONE "AE" AS PER F.E.M.A. INSURANCE RATE MAP OF CLAY COUNTY, NORTH CAROLINA. COMMUNITY PANEL NO. 3700548900J EFFECTIVE DATE NOVEMBER 19, 2008.

17. THERE ARE STREAMS AND WETLANDS ON OR WITHIN 200' OF THE PROJECT SITE.

18. THERE ARE NO STREAMS REQUIRING STATE OR LOCAL BUFFERS ON OR WITHIN 200' OF THE PROJECT SITE.

19. THIS SITE DOES NOT CONTAIN ANY KNOWN CEMETERIES.

20. ALL RETAINING WALLS WILL BE PERMITTED SEPARATELY.

21. ALL LIGHTING WILL BE LOW LEVEL AND NON-SPILL.

22. ALL PLANT MATERIAL CONFORMING TO AMERICAN STANDARD FOR

EROSION CONTROL NOTES:

2. EXISTING CONDITIONS: OPEN GRASSED FIELDS & WETLANDS

PROPERLY LABELED PLASTIC AND METAL WASTE CONTAINERS.

1. DESCRIPTION: 3 NEW DOCKS, LAKE DREDGING, WALL, SIDEWALK & BEACH CONSTRUCTION

3. ADJACENT AREAS: THE SITE IS BOUNDED TO THE NORTH & EAST BY OFFICE, SOUTH BY A CHURCH, TO THE WEST BY A POWER SUB-STATION.

CHURCH, TO THE WEST BY A POWER SUB—STATION.

4. SOIL CLEAN UP AND CONTROL PRACTICES:

(A) LOCAL, STATE AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL

BE CLEARLY POSTED AND PROCEDURES WILL BE MADE AVAILABLE TO SITE PERSONNEL.

(B) MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIAL AND EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO, BROOMS, DUSTPANS, MOPS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST AND

(C) SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO FUTURE SPILLS.

(D) ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS WILL BE REPORTED AS REQUIRED BY LOCAL, STATE AND FEDERAL REGULATIONS.

(E) FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER). THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-426-2675.

(F) FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-425-2675.

(G) FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE NORTH CAROLINA DEQ WILL BE CONTACTED WITHIN 24 HOURS.

(H) FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE SPILL WILL BE CLEANED UP AND LOCAL AGENCIES WILL BE CONTACTED AS REQUIRED.

(I) THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF MORE THAN 1320 GALLONS OF PETROLEUM IS STORED ONSITE (THIS INCLUDES CAPACITIES OF EQUIPMENT) OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 560 GALLONS. THE CONTRACTOR WILL NEED A SPILL PREVENTION CONTAINMENT AND COUNTER MEASURES PLAN BY THAT LICENSED PROFESSIONAL.

5. INSPECTIONS & RECORD KEEPING:

a. Permittee requirements.

(1). Each day when any type of construction activity has taken place at a primary permittee 's site, certified personnel provided by the primary permittee shall inspect: (a) all areas at the primary permittee's site where petroleum products are stored, used, or handled for spills and leaks from vehicles and equipment and (b) all locations at the primary permittee's site where vehicles enter or exit the site for evidence of off—site sediment tracking .. These inspections must be conducted until a Notice of Termination is submitted.

(2). Measure rainfall once every 24 hours except any non-working Saturday, non-working Sunday and non-working Federal holiday until a Notice of Termination is submitted. Measurement of rainfall may be suspended if all areas of the site have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region.

(3). Certified personnel (provided by the primary permittee) shall inspect the following a least once every seven (7) calendar days and within 24 hours of the end of a storm that is 0.5 inches rainfall or greater (unless such storm ends after 5:00 PM on any Friday or on any non-working Saturday, non-working Sunday or any non-working Federal holiday in which case the inspection shall be completed by the end of the next business day and/or working day, whichever occurs first): (a) disturbed areas of the primary permittee's construction site; (b) areas used by the primary permittee for storage of materials that are exposed to precipitation; and (c) structural control measures. Erosion and sediment control measures identified in the Plan applicable to the primary permittee's site shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s). For areas of a site that have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region, the permittee must comply with Part IV.D.4.a.(4). These inspections must be conducted until a Notice of Termination is submitted.

(4). Certified personnel (provided by the primary permittee) shall inspect at least once per month during the term of this permit (i.e., until a Notice of Termination is received by EPD) the areas of the site that have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region. These areas shall be inspected for evidence of, or the potential for, pollutants entering the drainage system and the receiving water(s). Erosion and sediment control measures identified in the Plan shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s)

(5). Based on the results of each inspection, the site description and the pollution prevention and control measures identified in the Erosion, Sedimentation and Pollution Control Plan, the Plan shall be revised as appropriate not later than seven (7) calendar days following each inspection. Implementation of such changes shall be made as soon as practical but in no case later than seven (7) calendar days following each inspection.

(6). A report of each inspection that includes the name(s) of certified personnel making each inspection, the date(s) of each inspection, construction phase (i.e., initial, intermediate or final), major observations relating to the implementation of the Erosion, Sedimentation and Pollution Control Plan, and actions taken in accordance with Part IV.D.4.a.(5). of the permit shall be made and retained at the site or be readily available at a designated alternate location until the entire site or that portion of a construction project that has been phased has undergone final stabilization and a Notice of Termination is submitted to EPD. Such reports shall be readily available by end of the second business day and/or working day and shall identify all incidents of best management practices that have not been properly installed and/or maintained as described in the Plan. Where the report does not identify any incidents, the inspection report shall contain a certification that the best management practices are in compliance with the Erosion, Sedimentation and Pollution Control Plan. The report shall be signed in accordance with Part V.C.2. of this permit.

NO MATERIAL IS TO BE BURNED ON SITE. ALL WASTE MATERIAL SHALL BE DISPOSED OF AT A PERMITTED OFFSITE LANDFILL

THE INSTALLATION OF EROSION CONTROL MEASURES SHALL TAKE PLACE PRIOR TO OR CONCURRENT WITH LAND DISTURBING ACTIVITIES

ALL IMPROVEMENTS TO CONFORM WITH CLAY COUNTY
CONSTRUCTION STANDARDS

NOTIFY CLAY COUNTY 24 HOURS BEFORE STARTING EACH PHASE OF CONSTRUCTION

MAXIMUM CUT OR FILL SLOPES ARE 2 HORIZONTAL TO 1 VERTICAL

ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSPECTED DAILY AND ANY DEFICENCIES NOTED WILL BE CORRECTED BY THE END OF EACH DAY. ADDITIONAL EROSION CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTOR.

SITE AREA: 17.19 AC
DISTURBED AREA: 3.1 AC (INCLUDING
DEDGING)
EARTHWORK ESTIMATE:

CUT: 7,000 CY
FILL: 7.000 CY WASTE

DIFFERENCE: 0 CY *

*EARTHWORK CALCULATIONS ARE BASED ON FINISHED GRADE

EARTHWORK ESTIMATE PROVIDED FOR CONVENIENCE TO CONTRACTOR ONLY. CONTRACTOR IS TO VERIFY QUANTITIES.

ADDITIONAL EROSION CONTROL NOTES:

THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPS WITHIN 7 DAYS AFTER INSTALLATION.

NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.

AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMPS WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.

WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.

EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

DETENTION POND OR SEDIMENT BASIN / STORAGE WILL BE INSTALLED AND FUNCTIONING BEFORE ANY MAJOR GRADING OR IMPERVIOUS SURFACES ARE CONSTRUCTED.

NOTE:

MAINTENANCE OF ALL EROSION CONTROL MEASURES, WHETHER TEMPORARY OR PERMANENT, SHALL AT ALL TIMES BE THE RESPONSIBILITY OF THE OWNER.

SURFACE ROUGHENING: ALL CUT AND FILL SLOPES SHALL BE SURFACED ROUGHENED AND VEGETATED WITHIN THREE (3) DAYS AFTER GRADING.

DISPOSAL: STUMPS AND CONSTRUCTION DEBRIS SHALL BE DEPOSITED IN A PROPERLY PERMITTED LANDFILL.

TYPE "S" SILT FENCE: A DOUBLE ROW OF TYPE "S" SILT FENCE SHALL BE REQUIRED WHEN PLACED WITHIN 200' OF STATE WATERS AND AT THE TOE OF SLOPES GREATER THAN 10' IN HEIGHT.

GRADING NOTES:

COMPACTION OF THE BACKFILL OF ALL TRENCHES SHALL BE COMPACTED TO THE DENSITY OF 95% OF MODIFIED PROCTOR MAXIMUM DENSITY PER A.S.T.M. TEST D—698.
BACKFILL MATERIAL SHALL BE FREE FROM ROOTS, STUMPS, OR OTHER FOREIGN DEBRIS, AND SHALL BE PLACED AT OR NEAR OPTIMUM MOISTURE. CORRECTION OF ANY TRENCH SETTLEMENT WITHIN A YEAR FROM THE DATE OF APPROVAL WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

REDDING

COMPACTION:

ALL STORM DRAIN AND SANITARY SEWER PIPES SHALL HAVE A CLASS "C" BEDDING AS A MINIMUM UNLESS NOTED OTHERWISE. EXCAVATE AND SHAPE BOTTOM OF TRENCH TO THE PROPER GRADE AND TO FIT THE LOWER PART OF THE PIPE EXTERIOR FOR A WIDTH OF A LEAST 50 PERCENT OF THE OUTSIDE DIAMETER OF THE PIPE. SIDES AND AREA OVER THE PIPE SHALL THEN BE FILLED WITH COMPACTED BACKFILL.

PAVING:

PAVING SHALL BE DONE IN ACCORDANCE WITH THE SPECIFICATIONS PROVIDED IN THESE PLANS. ALL PAVEMENT WITHIN THE GDOT R/W MUST CONFORM TO ALL GDOT PAVING STANDARDS.

CONCRETE: 3000 PSI COMPRESSIVE STRENGTH AT 28 DAYS, REINFORCING BARS SHALL CONFORM

TO THE REQUIREMENTS OF ASTM A 615 GRADE 60.

FIELD CONDITIONS:

CONTRACTOR SHALL VERIFY FIELD CONDITIONS AFFECTING CONSTRUCTION, PARTICULARLY UTILITIES, PRIOR TO CONSTRUCTION. CHANGES IN CONSTRUCTION NECESSITATED BY FIELD CONDITIONS SHALL BE APPROVED BY THE OWNER OR OWNER'S ENGINEER PRIOR TO CONSTRUCTION. IN ACCORDANCE WITH STATE LAW, THE CONTRACTOR SHALL CALL 800–288–7411 AT LEAST THREE (3) WORKING DAYS PRIOR TO CONSTRUCTION FOR LOCATION OF UNDERGROUND UTILITIES.

CONSTRUCTION STAKING:

CONSTRUCTION STAKING IS THE RESPONSIBILITY OF THE CONTRACTOR.

CONSTRUCTION NOTES:

1. NO ADDITIONAL CONSTRUCTION OR IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO WALLS, FENCES, SIGNS, SPRINKLER SYSTEMS, LIGHTS, TRESS, ETC., WILL BE ALLOWED ON THE ROAD RIGHT—OF—WAY.

2. THE CLAY COUNTY SHALL BE NOTIFIED 24 HOURS PRIOR TO ANY CONSTRUCTION.

3. ALL WATER MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE CLAY COUNTY WATER & SEWER DEPARTMENT.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING A MARKED—UP SET OF DESIGN DRAWINGS SHOWING ALL "ASBUILT" CONDITIONS. THESE "RECORD DRAWINGS" SHALL BE MADE AVAILABLE TO THE DESIGNER AND/OR THE CITY INSPECTOR UPON REQUEST. THE MARK—UPS SHALL BE AT THE SITE AT ALL TIMES AND SHALL BE UTILIZED TO DEVELOP FINAL RECORD DRAWINGS.

5. ANY CHANGES IN THE HORIZONTAL ALIGNMENT SHOWN HEREON SHALL BE APPROVED BY THE DESIGN ENGINEER AND THE CLAY COUNTY PRIOR TO

6. THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY LOCATIONS.
CONTRACTOR SHOULD NOTIFY THE UTILITIES PROTECTION CENTER, INC. AT (800)
282-7411 THREE WORKING DAYS BEFORE CONSTRUCTION IS TO BEGIN.

7. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION & MAINTENANCE OF ALL REQUIRED SEDIMENT CONTROL STRUCTURES.

8. ALL DISTURBED AREAS SHALL BE GRASSED IMMEDIATELY UPON COMPLETION

OF BACK FILLING TRENCHES.

9. CLEARING LIMITS SHALL BE CLEARLY DELINEATED WITH TREE SAVE FENCE

OR OTHER SUITABLE MEANS.

10. CONTRACTOR IS RESPONSIBLE FOR THE ADJUSTMENTS TO ALL EXISTING UTILITIES ON SITE TO FINAL GRADE.

DISPOSAL: STUMPS AND CONSTRUCTION DEBRIS SHALL BE DEPOSITED IN A PROPERLY PERMITTED LANDFILL.

NOTES:

PIPE: STORM DRAIN PIPES WILL BE CLASS III REINFORCED CONCRETE PIPE (RCP), TYPE II ALUMINIZED CORRUGATED STEEL PIPE (A2CSP) OR HDPE.

THE HORIZONTAL DATUM FOR THIS SURVEY IS STATE PLANE NORTH CAROLINA (NAD83).

ALL DISTANCES SHOWN ARE HORIZONTAL GROUND DISTANCES IN U.S. SURVEY FEET.
(39.37 INCHES = 1 METER)

EROSION CONTROL NARRATIVE

PURPOSE OF DEVELOPMENT

THE PROPOSED PROJECT INVOLVES DREDGING 10,000 CUBIC YARDS OF MATERIAL FROM LAKE CHATUGE TO IMPROVE WATER DEPTH AND RECREATIONAL ACCESS. FOLLOWING THE DREDGING, A RETAINING WALL WILL BE CONSTRUCTED ALONG THE NEW SHORELINE, AND A BEACH AREA WILL BE DEVELOPED. THE PROJECT ALSO INCLUDES THE CONSTRUCTION OF A WALKING PATH AND GRADING OF THE SURROUNDING AREA TO ENHANCE USABILITY AND AESTHETICS.

SITE AND ADJACENT AREA CONDITIONS

THE PROJECT SITE IS CURRENTLY A GRASSY FIELD ADJACENT TO LAKE CHATUGE, WITH WETLANDS THAT DRAIN DIRECTLY INTO THE LAKE. THE SITE IS BORDERED BY HIGHWAY 175 AND IS ADJACENT TO SEVERAL SINGLE—FAMILY RESIDENTIAL

PROPOSED EROSION AND SEDIMENT CONTROL MEASURES

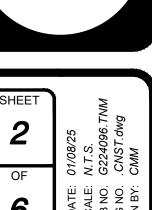
TO PREVENT SEDIMENT FROM ENTERING THE LAKE DURING CONSTRUCTION, A TURBIDITY CURTAIN WILL BE DEPLOYED WITHIN THE LAKE TO CONTAIN DISTURBED MATERIALS. A SILT FENCE WILL BE INSTALLED AROUND ALL DISTURBED AREAS TO INTERCEPT SEDIMENT RUNOFF. A STABILIZED CONSTRUCTION ENTRANCE WILL MINIMIZE OFF—SITE TRACKING OF SEDIMENT BY CONSTRUCTION VEHICLES. EXPOSED SOILS WILL BE STABILIZED PROMPTLY USING TEMPORARY SEEDING DURING CONSTRUCTION AND PERMANENT SEEDING UPON PROJECT COMPLETION TO ENSURE LONG—TERM EROSION CONTROL.

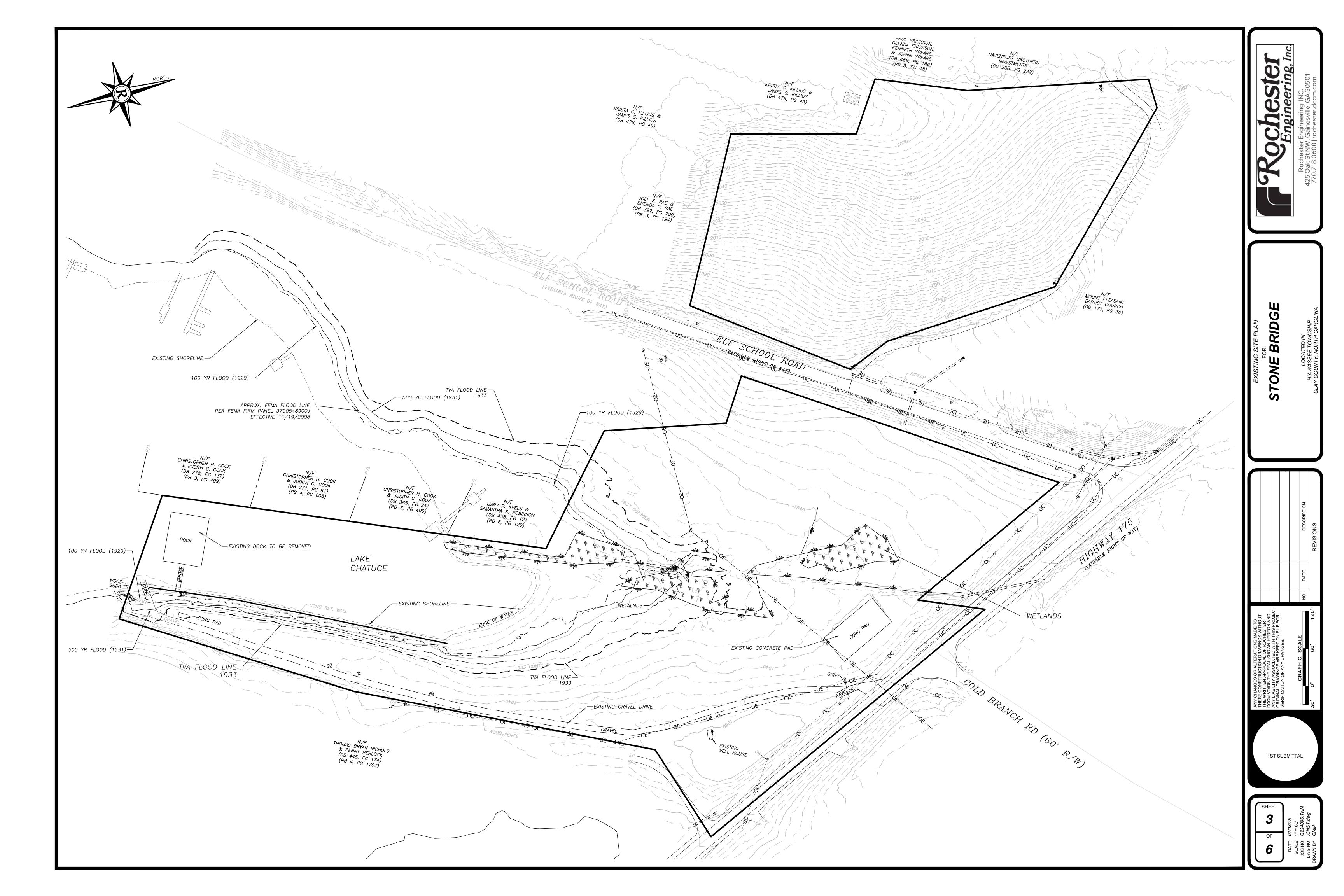
REVISION HISTORY CHART SUBMITTAL HISTORY CHART AFFECTED SHEETS P.E./ R.L.S INITIAL PERMIT DEPARTMENT *AGENCY* DESCRIPTION NUMBER NUMBER DESCRIPTION DATE 01/08/25 TVA PLANNING DIVISION 1st PLAN SUBMITTAL LDP

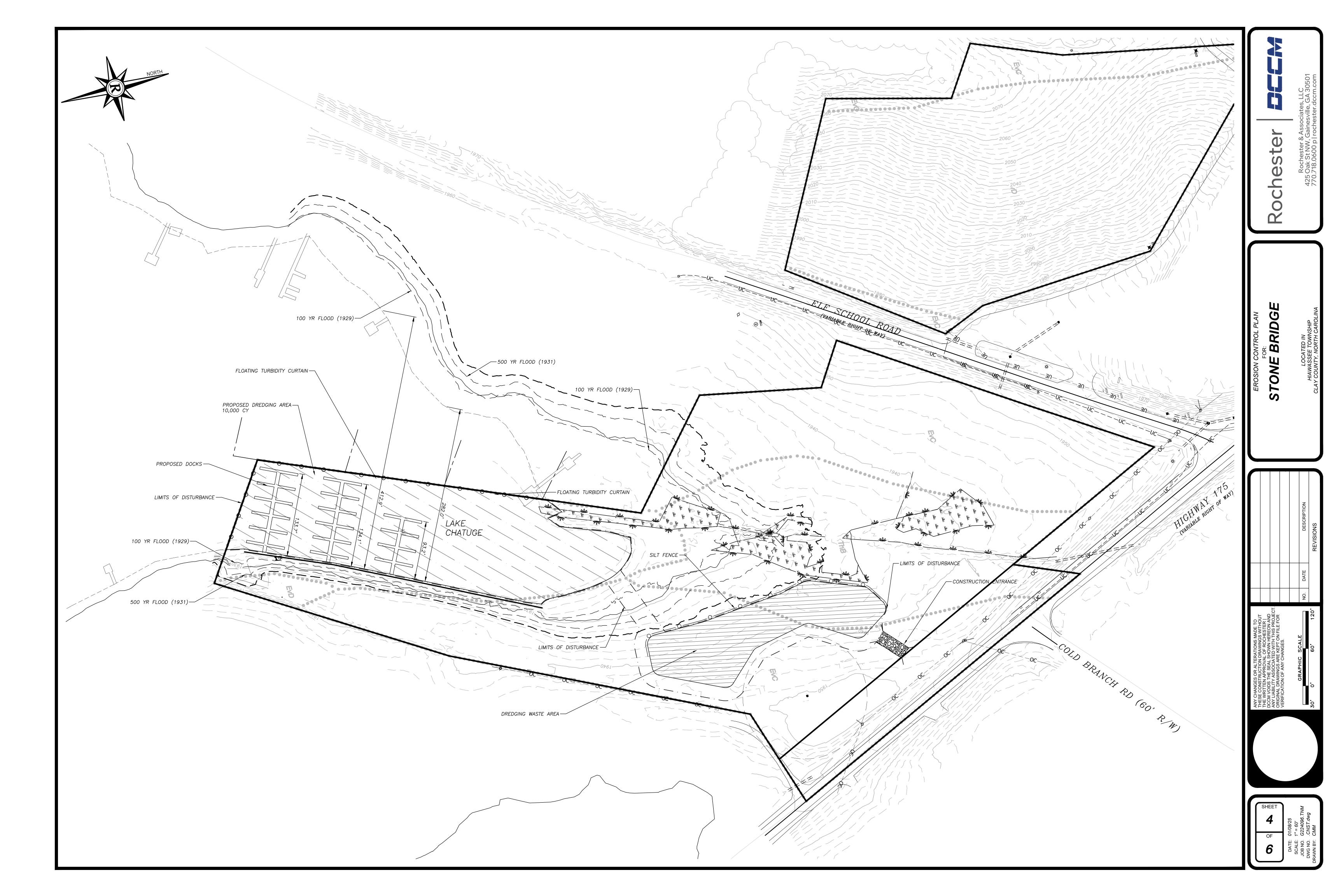


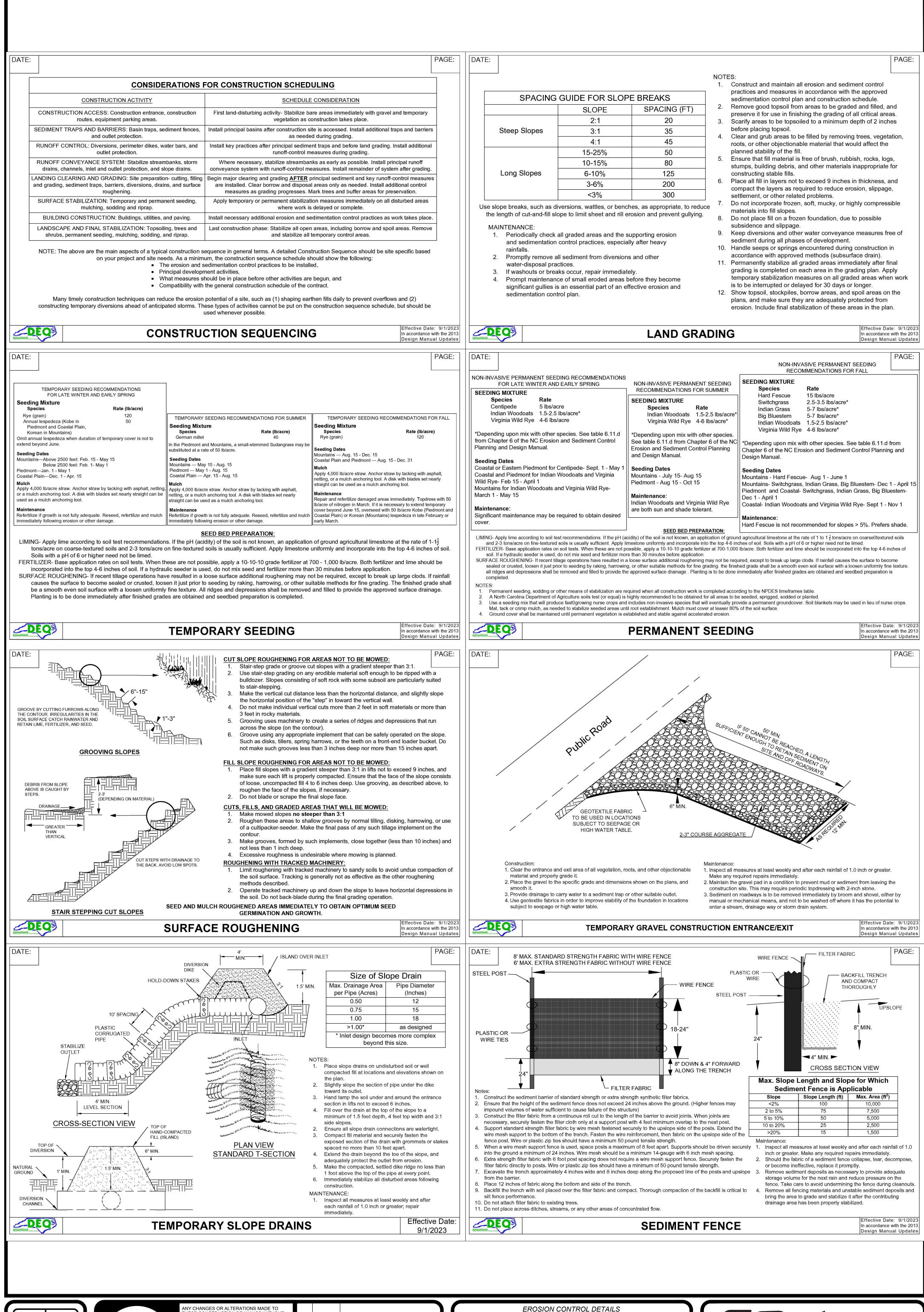
LOCATED IN











ANY CHANGES OR ALTERATIONS MADE TO THESE CONSTRUCTION DRAWINGS WITHOUT THE WRITTEN APPROVAL OF ROCHESTER | O OCCM VOIDS THE SEAL SHOWN HEREON AND ANY LIABILITY ASSOCIATED WITH THIS PROJECT ORIGINAL DRAWINGS ARE KEPT ON FILE FOR VERIFICATION OF ANY CHANGES. DATE: 01/08/25 SCALE: N.T.S. JOB NO. G224096.TNM NO. DATE **DESCRIPTION** DWG NO. .CNST.dwg DRAWN BY: CMM **REVISIONS**

STONE BRIDGE

LOCATED IN

Chester Engineering, Inc.

Rochester Engineering, INC. 425 Oak St NW, Gainesville, GA 30501 HIAWASSEE TOWNSHIP 770.718.0600 | rochester.dccm.com CLAY COUNTY, NORTH CAROLINA

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

plementing the details and specifications on this plan sheet will result in the construction 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.

SECTION	E:	GROUND	S	TABILIZATION	

SECT	TON E: GROUND STAE	BILIZATION	8
	Re	quired 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 are 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 4:1 -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 Zones -10 days for Falls Lake Watershed unless 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

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

SECTION A: SELF-INSPECTION

- 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. Provide ponding area for containment of treated Stormwater before discharging
- Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures.

QUIPMENT AND VEHICLE MAINTENANCE

- Maintain vehicles and equipment to prevent discharge of fluids.
- Provide drip pans under any stored equipment. Identify leaks and repair as soon as feasible, or remove leaking equipment from the
- Collect all spent fluids, store in separate containers and properly dispose as
- Remove leaking vehicles and construction equipment from service until the problem has been corrected.
- Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

hazardous waste (recycle when possible).

- Never bury or burn waste. Place litter and debris in approved waste containers. Provide a sufficient number and size of waste containers (e.g dumpster, trash
- receptacle) on site to contain construction and domestic wastes. Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- 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.
- Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers. Anchor all lightweight items in waste containers during times of high winds.
- Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
- Dispose waste off-site at an approved disposal facility. 9. On business days, clean up and dispose of waste in designated waste containers.

PAINT AND OTHER LIQUID WASTE

construction sites.

- Do not dump paint and other liquid waste into storm drains, streams or wetlands. Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Contain liquid wastes in a controlled area.
- 4. Containment must be labeled, sized and placed appropriately for the needs of site. 5. Prevent the discharge of soaps, solvents, detergents and other liquid wastes from

- Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place
- on a gravel pad and surround with sand bags. Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas.
- Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace with properly operating unit.

EARTHEN STOCKPILE MANAGEMENT

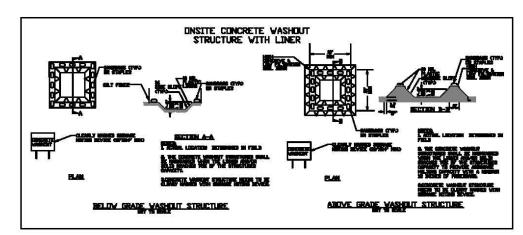
- Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably
- Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
- Provide stable stone access point when feasible.

erosion on disturbed soils for temporary or permanent control needs.

NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated





CONCRETE WASHOUTS

- Do not discharge concrete or cement slurry from the site.
- 2. Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
- Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within lot perimeter silt fence.
- 1. Install temporary concrete washouts per local requirements, where applicable. If an alternate method or product is to be used, contact your approval authority for review and approval. If local standard details are not available, use one of the two types of temporary concrete washouts provided on this detail.
- Do not use concrete washouts for dewatering or storing defective curb or sidewalk sections. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and removed from project.
- Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum, install protection of storm drain inlet(s) closest to the washout which could receive
- Locate washouts in an easily accessible area, on level ground and install a stone entrance pad in front of the washout. Additional controls may be required by the
- approving authority. Install at least one sign directing concrete trucks to the washout within the project limits. Post signage on the washout itself to identify this location.
- Remove leavings from the washout when at approximately 75% capacity to limit overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary products, follow manufacturer's instructions.
- .0. At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout.

HERBICIDES, PESTICIDES AND RODENTICIDES

- Store and apply herbicides, pesticides and rodenticides in accordance with label
- Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of
- accidental poisoning. Do not store herbicides, pesticides and rodenticides in areas where flooding is
- possible or where they may spill or leak into wells, stormwater drains, ground water or surface water. If a spill occurs, clean area immediately.

Do not stockpile these materials onsite.

- Create designated hazardous waste collection areas on-site.
- 2. Place hazardous waste containers under cover or in secondary containment.

3. Do not store hazardous chemicals, drums or bagged materials directly on the ground.

EFFECTIVE: 04/01/19

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.

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

SECTION B: RECORDKEEPING 1. E&SC Plan Documentatio

The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&SC plan shall be kept on site and available for inspection at all times during normal business hours.

Item to Document	Documentation Requirements
(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.
(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.
(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.
(d) The maintenance and repair requirements for all E&SC measures have been performed.	Complete, date and sign an inspection report.
(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.

- this requirement not practical:
- (a) This General Permit as well as the Certificate of Coverage, after it is received.

NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

- (b) Records of inspections made during the previous twelve months. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.
- 3. Documentation to be Retained for Three Years All data used to complete the e-NOI and all inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

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).

- (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
- (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, (e) Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices, and

PART II, SECTION G, ITEM (4) DRAW DOWN OF SEDIMENT BASINS FOR MAINTENANCE OR CLOSE OUT

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

(f) 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.

PART III

SELF-INSPECTION, RECORDKEEPING AND REPORTING

1. Occurrences that Must be Reported Permittees shall report the following occurrences:

(a) Visible sediment deposition in a stream or wetland.

(b) Oil spills if:

SECTION C: REPORTING

- They are 25 gallons or more,
- They are less than 25 gallons but cannot be cleaned up within 24 hours,
- They cause sheen on surface waters (regardless of volume), or They are within 100 feet of surface waters (regardless of volume).
- (c) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA
- (d) Anticipated bypasses and unanticipated bypasses.

(Ref: 40 CFR 302.4) or G.S. 143-215.85.

(e) Noncompliance with the conditions of this permit that may endanger health or the

2. Reporting Timeframes and Other Requirements

environment[40

CFR 122.41(I)(7)]

After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Department's Environmental Emergency Center personnel at (800)

Reporting Timeframes (After Discovery) and Other Requirements

continue; and steps taken or planned to reduce, eliminate, and

prevent reoccurrence of the noncompliance. [40 CFR 122.41(I)(6).

Division staff may waive the requirement for a written report on a

(a) Visible sediment deposition in a stream or wetland		Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis. If the stream is named on the NC 303(d) list as impaired for sediment-related causes, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliant with the federal or state impaired-waters conditions.
(b) Oil spills and release of hazardous substances per Item 1(b)-(c) above	•	Within 24 hours , an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.
(c) Anticipated bypasses [40 CFR 122.41(m)(3)]	•	A report at least ten days before the date of the bypass, if possible. The report shall include an evaluation of the anticipated quality and effect of the bypass.
(d) Unanticipated bypasses [40 CFR 122.41(m)(3)]	•	Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that includes an evaluation of the quality and effect of the bypass.
(e) Noncompliance with the conditions of this permit that may endanger health or the	•	Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to

case-by-case basis.

NORTH CAROLINA Environmental Quality

EFFECTIVE: 04/01/19



