

City of Greensboro

Mailing Address: P.O. Box 3136, Greensboro NC 27402-3136
 Office Address: 300 West Washington Street, Greensboro NC 27402
 Questions? Please contact Jason Earliwine at jason.earliwine@greensboro-nc.gov or 336-373-4576

PLAN TYPE:

Site Plans \$1,400 plus \$20 per 1,000 sq. ft. gross floor area
 Multifamily Developments \$1,400 plus \$25 per dwelling unit
 Single Family Subdivisions \$1,400 plus \$40 per lot
 Minor Revisions \$320 plus the per lot, square footage, or dwelling unit listed below applied to any increase

Resubmittal of Plan for TRC Review (Per Review for 4th and Subsequent Reviews): \$430
 Wireless Telecommunication Facilities/New Towers: \$1,400
 Wireless Telecommunication Facilities/Co-locations: \$160

Site Specific Development Applicable review fee as listed above plus \$1,140 for Plan Approval to obtain a sites of less than 1 acre, \$1,335 for sites of 1 to Zoning Vested Right 4.9 Acres, or \$1,525 for sites of 5 or more acres.

Landscape/Tree Conservation fees are payable prior to scheduling for TRC action. Landscape Plan if submitted separately: \$50
 Tree/Land Disturbance Permit: \$50
 Tree Protection/Landscaping Inspection or Reinspection: \$85 each

Please go to <https://gsoapps.greensboro-nc.gov/SOALite/V5.03/WebClient/index.html?applicationName=PlanReview&authMode=c&AuthMode=c> to submit a plan for review.

Review turn-around target is 10 working days.

Please use Design Review Checklist to ensure your plan is complete:
<https://www.greensboro-nc.gov/home/showpublisheddocument/7661/637291302940830000>

Project Summary (Completed by Design Agent):

A. Site Street Addresses (All): 3224 COPTHORNE DRIVE, GREENSBORO, NC
 B. Project Name: DAWN RIDGE HOMES
 C. Project Description: 26
 D. Type(s) of Plan: Site Plan Group Development Plan TRC Lite: Preliminary Subdivision Site Specific Plan (Zoning Vested Right)
 E. Owner/Applicant: LEOTERRA DEVELOPMENT INC.
 Email: JASON.CHEEKS@LEOTERRADEVELOPMENT.COM Phone: 336-967-6260 X 105
 F. Design Agent: TIM SHAW (HAGEN ENGINEERING)
 Email: TSHAW@HAGEN-ENG.COM Phone: 336-286-3350
 G. Also Report Comments to
 Email: _____ Phone: _____
 H. Tract Acres: 11.23 | Zoning District: R-3 | J. Zoning Overlay: GREENSBORO WS-III
 K. Watershed: BRUSH CREEK | L. Current Use: VACANT
 M. Proposed Use: SINGLE-FAMILY RESIDENTIAL
 N. Parking Required: 52 SPACES | Proposed: 55 SPACES
 O. # of Lots Now: 1 | Proposed: 26
 P. Multifamily Development: # of Units Total: N/A
 By type: Apartments _____ Townhomes _____ Condominiums _____
 Q. Open Space (Res'l Projects) Required: 1.68 AC | Proposed: 4.09 AC
 R. Non-Res'l Gross Floor Area (GFA), by sf:
 Existing: 0 To Be Demolished: 0
 +Proposed: 0 = Total Resulting GFA: 0
 S. Built-Upon Area (BUA), by sf/ac and % of lot:
 Existing: 0 SF / 0.00 AC / 0.00% To Be Demolished: 0 SF / 0.00 AC / 0.00%
 +Proposed: 135865.64 SF / 3.12 AC / 27.8% = Total Resulting BUA: 135865.64 SF / 3.12 AC / 27.8%
 T. Will building(s) be sprinkled? Yes _____ No
 U. Building occupancy code under the Building Code: R-3

Stormwater Management/Watershed Information:

Stormwater Control/Improvements(s):
 WET POND
 Maximum Amount of BUA Allowed Per Stormwater
 Control Design: 2.97 AC
 Distance to Nearest Floodway: >2000 LF
 On-site soil types(s): CKB, CKC, CnA, PoE, PpC2
 Hydrology groups(s): A, B
 Amount of site to be disturbed: 9.80 AC

Check as Appropriate:

LANDSCAPE, TREE CONSERVATION APPROVAL AND INSPECTION:

To request an inspection or a pre-construction meeting contact the City Arborist at 336-373-2150

A LANDSCAPE PLAN (which depicts the plant types and locations) must be submitted to the Planning Department for review and approval WITHIN 90 DAYS OF RECEIVING A BUILDING PERMIT. The Landscape Plan must be approved before installation of plant material.

The required LANDSCAPE PLANT MATERIAL must be installed and inspected PRIOR to receiving a Certificate of Occupancy.

The required TREE PROTECTION FENCING must be installed and inspected PRIOR to land disturbance.

The required TREE CONSERVATION & REFORESTATION AREA(s) must be inspected PRIOR to receiving a Certificate of Occupancy.

WATERSHED APPROVAL AND INSPECTION

(Questions? Contact Water Resources Engineering at 336-373-2055)

A FINAL PLAT dedicating the DMUE and access easements must be recorded PRIOR to receiving a Certificate of Occupancy.

Construction of the WATER QUALITY DEVICE (POND) must be complete and the "Engineer's Certification of Completion" sent to the Water Resources Department PRIOR to receiving a Certificate of Occupancy.

Any sediment that enters the Pond during the construction must be removed PRIOR to issuance of a Certification of Occupancy.

FLOODPLAIN APPROVAL

(Questions? Contact Water Resources Engineering at 336-373-2055)

Elevation Certification Required
 Floodplain Development Permit Required

AIRPORT AIR OPERATION AREA ALTERNATIVE STORMWATER CONTROL:

(Questions? Contact Water Resources Engineering at 336-373-2055)

This development is within 5 statute miles of Piedmont Triad International Airport air operation area. For such projects, according to Session Law 2012-200, the NCDEQ North Carolina Best Management Practice Manual provides acceptable alternative Stormwater control measures other than wet ponds or those that promote standing water. The design engineer has reviewed these alternatives.

SOIL EROSION CONTROL:

(Questions? Contact Erosion Control Officer at 336-373-2030)

Watershed Pond Construction or Surety/ Improvement Guarantee Required

WATER RESOURCES CONSTRUCTION APPROVAL:

(Questions? Contact Water Resources Engineering at 336-373-2055)

*Permit application fees required before construction plans are released.

Water System*
 State Water Permit Required
 Outside City – Utility Agreement and Annexation Petition Required
 Sanitary Sewer System*
 State Water Sewer System Permit Required
 Outside City – Utility Agreement and Annexation Petition Required

ENGINEERING CONSTRUCTION APPROVAL:

(Questions? Contact Development Services/Engineering at 336-373-2052)

*Engineering Inspection Fees required before construction plans are released.

Utility Construction Plan Approval Required*

Pavement Cut Permit May be Required*

Roadway Construction Plans Required*

Storm Sewer System – Permit Required to tie into Storm Sewer System
 – Driveway Culvert Inspection Required

TRANSPORTATION APPROVAL: (Questions? Contact GDOT at 336-373-GDOT)

Driveway permit issued? _____ Number: _____

*Do Not Issue Building Permit until any required Driveway Permit has been issued.

City of Greensboro Driveway Permit Required

N.C. Department of Transportation Driveway Permit Required

SUBDIVISION APPROVAL:

A Final Plat Must Be Recorded Prior to TRC Approval of this Submittal or Prior to Issuance of a Building Permit (PB: _____ Pg: _____)

City of Greensboro
Water Resources Department
COLLECTION SYSTEM EXTENSION PERMIT APPROVAL

Project Origin: _____ City _____ Private

Type of Project: _____ City Owned _____ Privately Owned

_____ Portions Public and Privately Owned

Per Article 21 of Chapter 143 of the North Carolina General Statutes, as Amended, and Other Laws, Rules and Regulations, Permission is hereby granted by the City of Greensboro, a delegated permitting authority approved by the North Carolina Environmental Management Commission, for the construction and operation of the collection system depicted on these plans and throughout the permitting process.

City of Greensboro and its staff are not responsible for errors in designs, calculations, drawings or statements, or finding and correcting any errors or deficiencies submitted by applicants or their consultants, and disclaim any liability for errors, in accordance with North Carolina General Statute 130A-26.2. Any person who knowingly makes any false statement, representation, or certification in any application or design documents shall be guilty of a Class 2 misdemeanor, which may include a fine not to exceed \$10,000 per violation.

Permittee shall be responsible for adherence to all conditions of the City of Greensboro Water Resources Department as Checked.

Wastewater Collection System Extension Master Permit (Public)

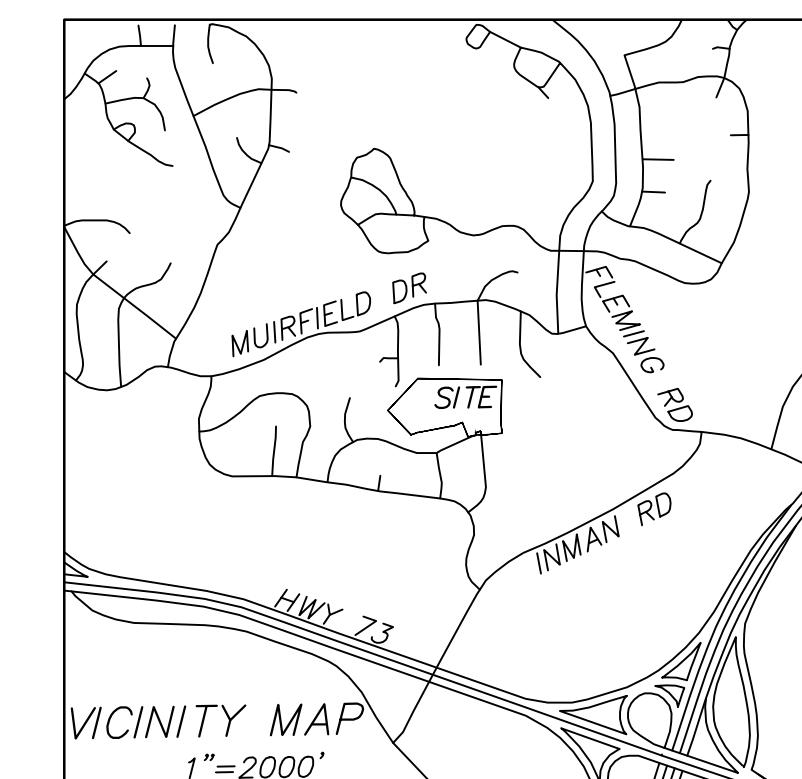
Individual Wastewater Collection System Extension Permit (Private)

Any significant changes (size, type, connections, length, alignment, etc) to that approved on the these plans or permitting documents shall be reviewed and approved by the City of Greensboro prior to Construction.

Approved by: _____; City of Greensboro

COG Permit # WRCS00: _____ Approval Date: _____

(Vicinity Map, north to top)



(Construction Plans Review Stamps)

	AC	% OF DRAINAGE AREA
DRAINAGE AREA		
ONSITE	7.68	100%
OFFSITE	0.00	0.00%
TOTAL	7.68	100%
BUA		
ONSITE	2.93	98.65%
OFFSITE	0.04	1.35%
TOTAL	2.97	100%
MAX ALLOWED	2.97	38.67%
.19 AC OF IMPERVIOUS WILL BYPASS POND		

This Watershed Plan and/or Site Plan, Preliminary Subdivision, Group Development was APPROVED by the Technical Review Committee on _____.

TRC approval represents the maximum possible development of the site. Other approvals (including Construction Plans Review) could reduce the amount of development possible on this site.

Conformance with this Approved Plan is your responsibility. Any change in land use, lot lines, building location, parking, drives, utility lines, landscaping, etc. must be resubmitted for review and approval PRIOR to such change being made.

Per Land Development Ordinance Sections 30-4-15.8 and 30-4-17.5, in general this Approval expires in 2 years.

Site Plans: Approval also expires if construction or development activity is begun and then discontinued for a period greater than 180 days. Preliminary Subdivision: Approval also expires if a final plat is not recorded within 2 years, or if there is a lapse of more than 2 years between the recordings of phases or section.

This Approval covers site design only. Separate application, review, approval and/or permits are required for signs, construction plans, building plans, final plats or anything other than site design.

(Clerk of the TRC) (Date) (Tracking #*)
 *Agent: Add Case # Prior to Resubmittal

(Clerk of the TRC) (Date of Approval of Minor Revision or Re-approval) (Tracking #*)

CITY OF GREENSBORO GENERAL NOTES

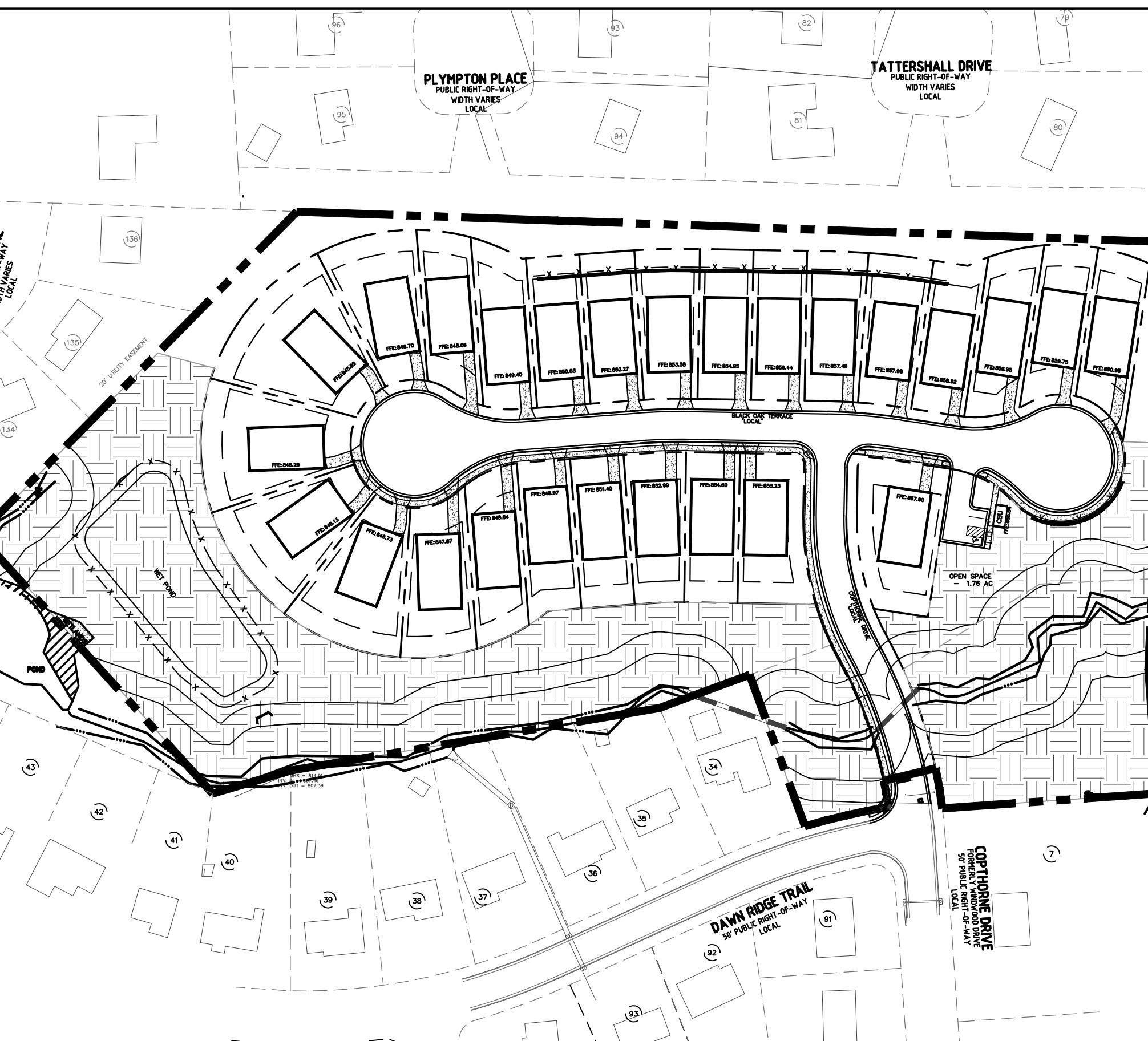
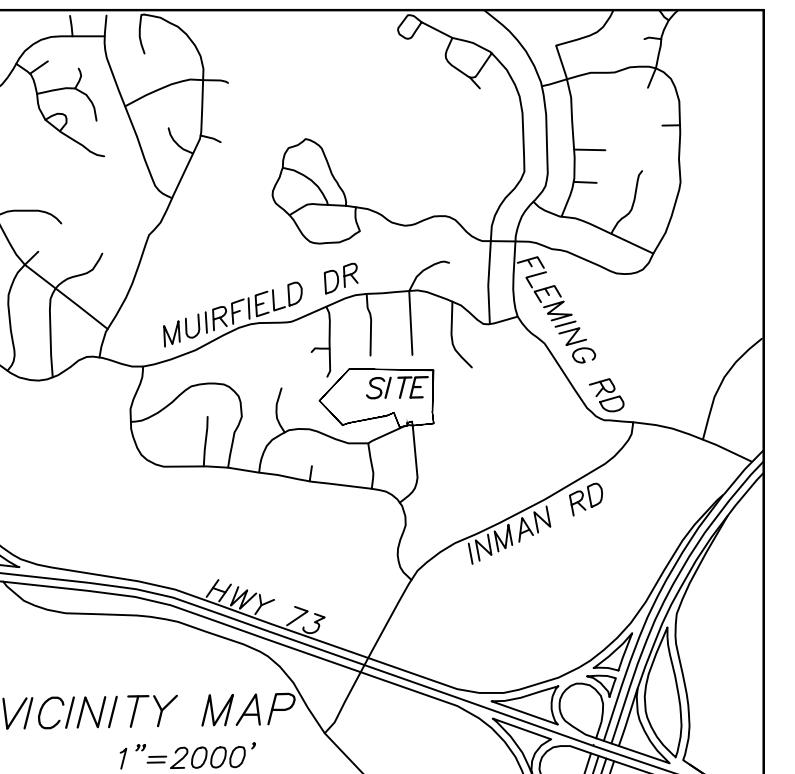
- ALL WATER AND SEWER CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE CITY OF GREENSBORO AND SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION. CONTRACTOR SHALL CONTACT THE CONSTRUCTION INSPECTOR AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO START OF CONSTRUCTION.
- CONTRACTOR SHALL IMMEDIATELY CONTACT THE CITY IF THERE IS A CONFLICT BETWEEN THESE PLANS AND THE PUBLISHED STANDARDS OF THE CITY. APPROVAL OF THESE PLANS DOES NOT CONSTITUTE ANY WAIVER FROM THE CITY STANDARDS.
- ALL FIRE HYDRANTS THAT ARE INSTALLED, THAT ARE NOT YET OPERATIONAL, SHALL BE BAGGED. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FURNISH AND INSTALL THE REQUIRED MATERIALS AT THEIR COST.
- CONTRACTOR SHALL NOT TAP OR OTHERWISE PENETRATE EXISTING WATER OR SEWER MAIN LINES WITHOUT PRIOR APPROVAL FROM NCDENR PUBLIC WATER SUPPLY SECTION AND THE CITY. CONTRACTOR IS RESPONSIBLE TO AVOID SPILLAGE OF RAW SEWAGE. CONTRACTOR SHALL PROVIDE ALL SEWER PLUGGING AND PUMPING EQUIPMENT NECESSARY TO AVOID SPILLAGE. VIOLATIONS ARE SUBJECT TO FINES AND PENALTIES AND WILL BE ENFORCED TO THE FULL EXTENT OF THE LAW.
- CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF TRAFFIC ON EXISTING ROADWAYS IN ACCORDANCE WITH NCDOT STANDARD SPECIFICATIONS LATEST EDITION AND CITY REQUIREMENTS.
- WATER AND SEWER MAIN CONSTRUCTION SHALL NOT COMMENCE UNTIL INVOLVED ROADWAYS, STORM DRAINS, AND UTILITY EASEMENTS HAVE BEEN GRADED AND CONTOURED TO APPROXIMATELY FINAL GRADE. PROPERTY CORNERS OF ALL LOTS ARE REQUIRED TO BE STAKED BY A LICENSED SURVEYOR PRIOR TO INSTALLING WATER AND SEWER SERVICE CONNECTIONS.
- ONLY THE AMOUNT OF TRENCH THAT CAN BE OPENED, WORKED IN AND THEN STABILIZED IN A WORK DAY SHALL BE DONE SO. IF STABILIZATION DOES NOT OCCUR AT THE END OF THE WORK DAY, THEN APPROPRIATE EROSION, SEDIMENT, AND SAFETY CONTROLS SHALL BE INSTALLED.
- A PRE-CONSTRUCTION MEETING IS REQUIRED PRIOR TO START OF CONSTRUCTION. MATERIALS SUBMITTAL SHALL BE DELIVERED AND APPROVED BY THE CITY OF GREENSBORO FOR WATER AND SEWER CONSTRUCTION PRIOR TO START OF WORK.
- ALL PIPES SHALL BE CLEANED BEFORE THEY ARE LAID AND SHALL BE KEPT CLEAN UNTIL ACCEPTANCE OF THE COMPLETED WORK BY THE CITY. OPEN ENDS OF PIPES SHALL BE FITTED WITH WATER TIGHT DEVICES TO PREVENT ENTRANCE OF FOREIGN MATTER WHEN PIPE-LAYING OPERATIONS ARE INTERRUPTED.
- ALL PUBLIC SANITARY SEWER MAINS SHALL BE INSTALLED IN DEDICATED STREET RIGHT OF WAY OR IN DEDICATED UTILITY EASEMENTS. MAINS INSTALLED IN CITY RIGHT OF WAY SHALL BE LOCATED IN THE CENTER OF PAVEMENT.
- BEFORE THE SYSTEM MAY BE PUT INTO SERVICE THE CITY WILL REQUIRE THE AS-BUILT INFORMATION FOR WATER, SEWER AND STORM DRAINAGE. CONTACT TOSP GIS DEPARTMENT FOR REQUIREMENTS.
- ALL TRANSITIONS IN PIPE MATERIAL SHALL HAVE RESTRAINED JOINTS. ALL RESTRAINED JOINTS SHALL BE INSPECTED BY THE CITY'S CONSTRUCTION INSPECTORS PRIOR TO BEING COVERED.
- ALL FIRE HYDRANT LEGS SHALL BE DIP, BE RESTRAINED WITH THREADED RODS AND HAVE THRUST BLOCKING. ALL FH LEGS SHALL BE INSPECTED BY THE CITY'S CONSTRUCTION INSPECTORS PRIOR TO BEING COVERED.
- ALL GRADES FOR ENTRANCES AND FIRE LANES SHALL BE FIELD VERIFIED BY THE FIRE DEPT. PRIOR TO ACCEPTANCE. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH TESTING BY THE FIRE DEPARTMENT.
- ALL UTILITIES SHALL BE ELECTRONICALLY LOCATABLE USING A LOCATING METHOD THAT IS GENERALLY ACCEPTED BY OPERATORS IN THE PARTICULAR INDUSTRY OR TRADE IN WHICH THE OPERATOR IS ENGAGED.

CONTRACTOR GENERAL NOTES:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL ILLUSTRATED KNOWN UNDERGROUND ELEMENTS. ADDITIONALLY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXERCISING REASONABLE EFFORTS TO PROTECT ANY UNKNOWN UNDERGROUND ELEMENTS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF UNKNOWN ELEMENTS ARE DISCOVERED THAT WOULD NECESSITATE MODIFICATION TO THE ILLUSTRATED DESIGN.
- PROTECT ALL ADJACENT PROPERTIES, THE GENERAL PUBLIC, AND ALL OF THE OWNER'S FACILITIES. SHOULD DAMAGES OCCUR, CONTRACTOR SHALL REPAIR IMMEDIATELY AS DIRECTED BY THE ENGINEER.
- CONTRACTOR SHALL HOLD HARMLESS THE OWNER AND THE ENGINEER FOR DAMAGES, INJURIES OR OTHER ACCIDENTS WHICH OCCUR DURING THESE CONSTRUCTION ACTIVITIES.
- TREES AND EXISTING LANDSCAPING NOT DESIGNATED FOR REMOVAL SHALL BE PROTECTED DURING CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING AND COORDINATION OF ALL ILLUSTRATED CONSTRUCTION ACTIVITIES AT THE JOB SITE.
- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE RULES AND REGULATIONS GOVERNING THE CONSTRUCTION INDUSTRY.
- CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGES DURING CONSTRUCTION AND SHALL MAKE REPAIRS AT HIS EXPENSE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION ADJUSTMENTS OF ALL EXISTING VAULTS (REGARDLESS OF FUNCTION), METER BOXES, FIRE HYDRANTS, CLEAN OUTS, MANHOLES ETC. TO MATCH FINISHED GRADES AND SITE PLAN. ALL SUCH WORK SHALL BE COORDINATED WITH THE ENGINEER.
- UTILIZE SIGNS, BARRICADES, FLAGMEN, OR GUARDS AS REQUIRED TO ENSURE THE SAFETY OF ALL VEHICULAR AND PEDESTRIAN TRAFFIC DURING ALL CONSTRUCTION ACTIVITIES PER NCDOT STANDARDS.
- UNDER ABSOLUTELY NO CIRCUMSTANCES SHALL ANY UNMANNED EXCAVATION BE LEFT OPEN OR UNPROTECTED DURING NON-WORKING HOURS. UTILIZE SIGNS, BARRICADES, ETC. TO ENSURE THE SAFETY OF THE GENERAL PUBLIC.
- VERIFY ALL DIMENSIONS AND GRADES AT THE JOB SITE. IF DIFFERENCES ARE FOUND, NOTIFY ENGINEER SO THAT MODIFICATIONS TO THESE DRAWINGS CAN BE MADE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LAYOUT OF ALL WORK AS ILLUSTRATED ON PLANS. IF EXISTING CONDITIONS DIFFER FROM THOSE ILLUSTRATED ON PLANS, NOTIFY ENGINEER PRIOR TO CONSTRUCTION.
- ALL WORK IN OPERATIONAL ROADWAYS WHETHER FOR LOADING, UNLOADING, OR ACTUAL CONSTRUCTION SHALL TAKE PLACE ONLY WITH THE USE OF FLAG MEN DEDICATED TO THE PURPOSE OF DIRECTING TRAFFIC ONLY. THESE FLAGMEN SHALL BE POSITIONED AT THE FRONT AND REAR OF SUCH WORK PER NCDOT STANDARDS.
- ALL WORK SHALL CONFORM WITH CURRENT REQUIREMENTS OF THE CITY OF GREENSBORO, NCDEQ, AND NCDOT STANDARDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS WITH THE AUTHORITIES HAVING JURISDICTION.
- CONTRACTOR SHALL STORE MATERIALS ONLY IN AREAS DESIGNATED AND APPROVED BY THE ENGINEER AND OWNER. MATERIALS SHOULD BE CONSOLIDATED PERIODICALLY WITHIN THE STORAGE AREA TO MINIMIZE THE IMPACT ON EXISTING OPERATIONS.
- ALL EXISTING DIRECTIONAL AND TRAFFIC CONTROL SIGNAGE SHALL BE MAINTAINED THROUGHOUT. ALL TEMPORARY TRAFFIC SIGNS SHALL CONFORM WITH NCDOT STANDARDS. EXISTING DIRECTIONAL SIGNS REMOVED DURING CONSTRUCTION SHALL BE PROTECTED AND STORED ON SITE AS DIRECTED BY THE OWNER.

DAWN RIDGE HOMES

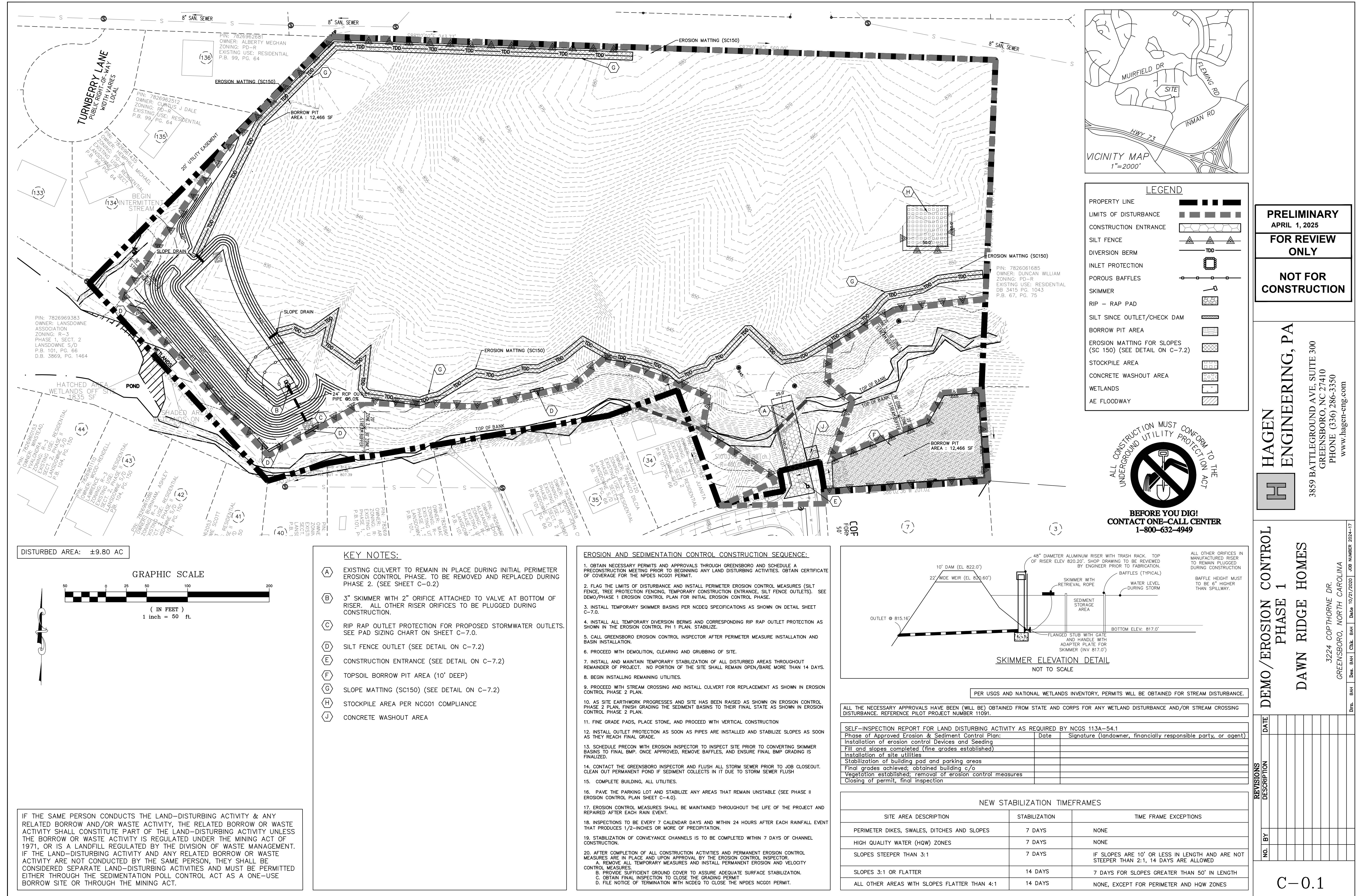
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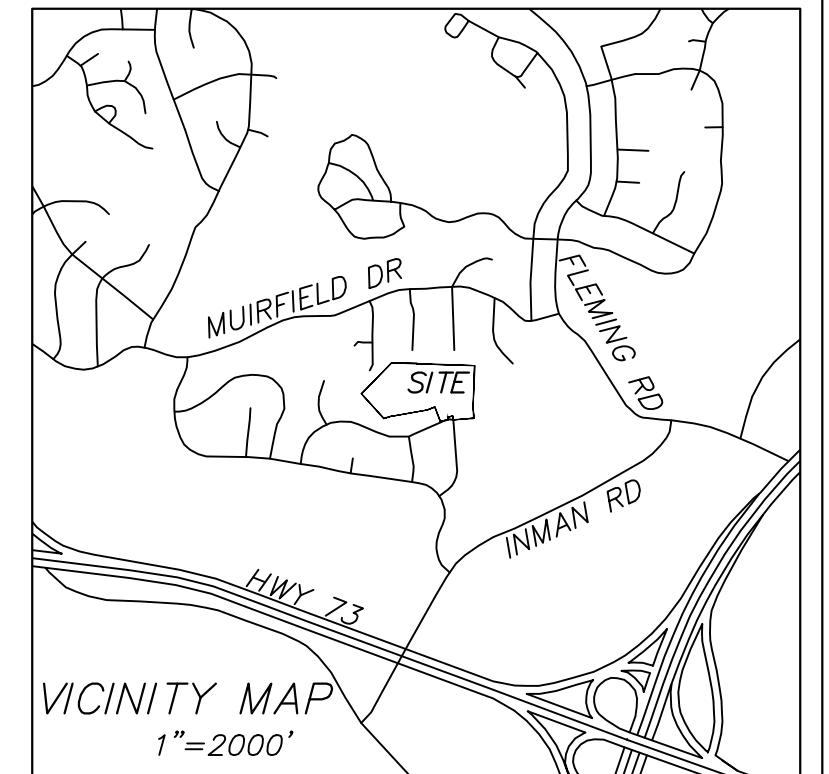
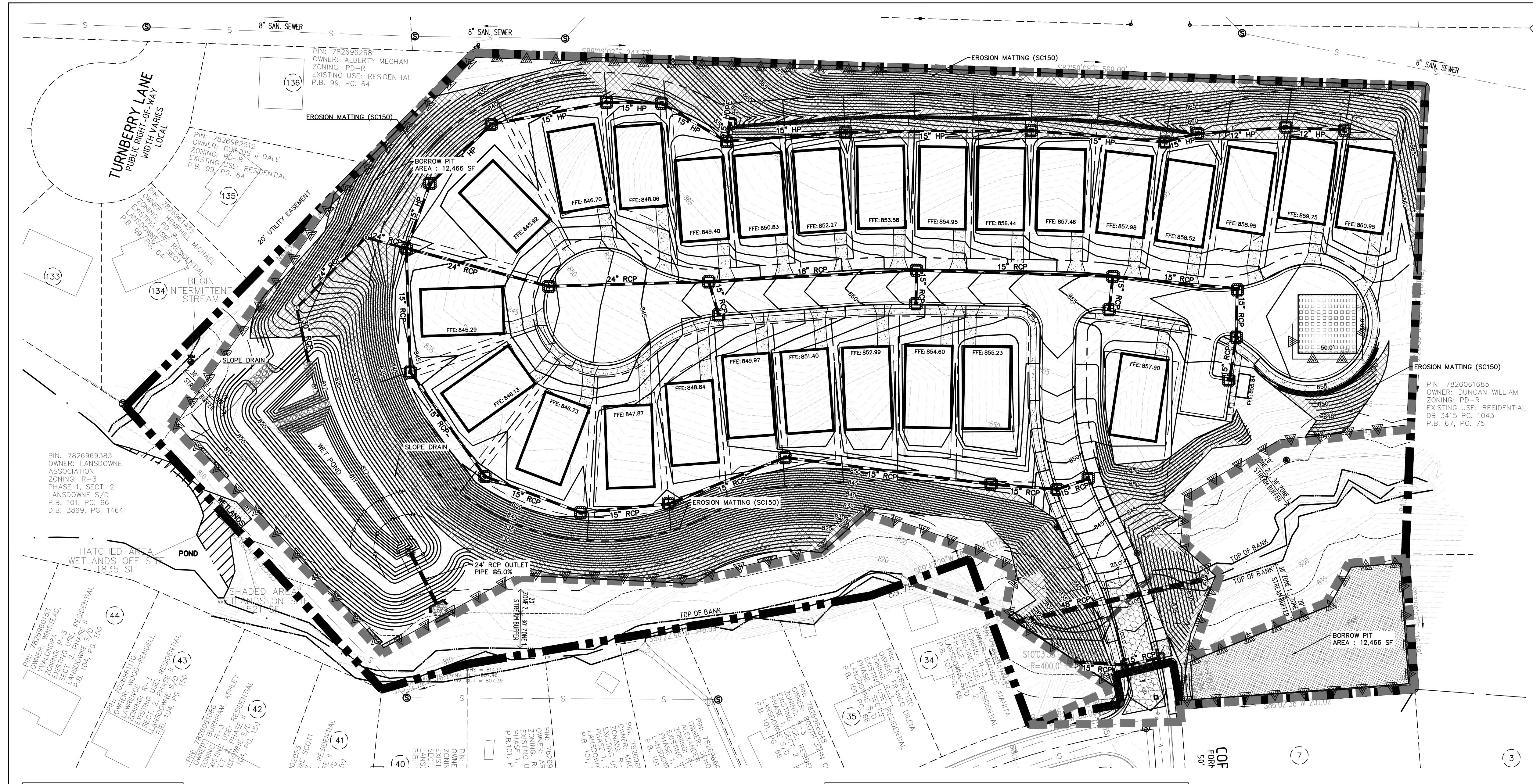


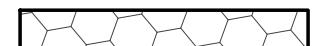
SITE DATA TABLE			
PROJECT NAME:	DAWN RIDGE HOMES	OWNER:	LEOTERRA DEVELOPMENT INC.
ENGINEER:	HAGEN ENGINEERING	OWNER EMAIL CONTACT:	JASON.CHEEK@LEOTERRADEVELOPMENT.COM
PROJECT ADDRESS:	3224 COPTHORNE DRIVE	ENGINEER EMAIL CONTACT:	TSHAW@HAGEN-ENG.COM
PARCEL ID#:	783041037	LATITUDE:	36.1263
DEED BOOK & PAGE:	6970/921	LONGITUDE:	-79.9143
LOT SIZE:	11.23	DISTURBED AREA:	9.80 AC
CURRENT ZONING:	R-3	PARKING PROVIDED:	55 SPACES
WATERSHED:	GREENSBORO WS-III	RECEIVING WATER COURSE:	
STREAM CLASSIFICATION:	REFERENCE PILOT PROJECT 11091	RIVER BASIN:	
HWY:	NO	FLOOD ZONE (FEMA PANEL #, DATE):	N/A
EXISTING IMPERVIOUS AREA:	0.00 AC	0.0%	
PROPOSED IMPERVIOUS AREA:	3.12 AC	27.8%	
TOTAL IMPERVIOUS AREA:	3.12 AC	27.8%	

SHEET INDEX	
COG COVER SHEET	
COVER	
SURVEY	
C-0.1	OVERALL DEMO/EROS PH 1
C-0.2	EROSION CONTROL PH 2
C-1.0	OVERALL SITE PLAN
C-2.0	OVERALL UTILITY PLAN
C-2.1	SEWER PROFILE
C-3.0	GRADING PLAN
C-4.0	ROAD PROFILE 1
C-4.1	ROAD PROFILE 2
C-5.0	STORMWATER PRE-DEVELOPMENT
C-5.1	STORMWATER POST DEVELOPMENT
C-5.2	STORM DRAINAGE AREA PLAN
C-5.3	STORMWATER PIPE CHART
C-5.4	STORM SEWER PLAN
C-5.5	CULVERT 1 DRAINAGE PLAN
C-5.6	CULVERT 1 PROFILE
C-6.0	POND PLAN
C-7.0	CONSTRUCTION DETAILS
C-7.1	CONSTRUCTION DETAILS 1
C-7.2	CONSTRUCTION DETAILS 2
C-7.3	CONSTRUCTION DETAILS 3
C-7.4	CONSTRUCTION DETAILS 4
C-7.5	CONSTRUCTION DETAILS 5
C-7.6	CONSTRUCTION DETAILS 6

APPROVAL OF THESE PLANS IN NO WAY IS MEANT TO RELIEVE THE DESIGN PROFESSIONAL OF HIS OR HER RESPONSIBILITY FOR PROJECT DESIGN





<u>LEGEND</u>	
PROPERTY LINE	   
LIMITS OF DISTURBANCE	   
CONSTRUCTION ENTRANCE	
SILT FENCE	
DIVERSION BERM	
INLET PROTECTION	
POROUS BAFFLES	
SKIMMER	
RIP – RAP PAD	
SILT SINCE OUTLET/CHECK DAM	
BORROW PIT AREA	
EROSION MATTING FOR SLOPES (SC 150) (SEE DETAIL ON C-7.2)	
STOCKPILE AREA	
CONCRETE WASHOUT AREA	
WETLANDS	
AE FLOODWAY	

ALL CONSTRUCTION UNDERGROUND UTILITY PROTECTION ACT

**BEFORE YOU DIG!
CONTACT ONE-CALL CENTER
1-800-622-1040**

IF THE SAME PERSON CONDUCTS THE LAND-DISTURBING ACTIVITY & ANY RELATED BORROW AND/OR WASTE ACTIVITY, THE RELATED BORROW OR WASTE ACTIVITY SHALL CONSTITUTE PART OF THE LAND-DISTURBING ACTIVITY UNLESS THE BORROW OR WASTE ACTIVITY IS REGULATED UNDER THE MINING ACT OF 1971, OR IS A LANDFILL REGULATED BY THE DIVISION OF WASTE MANAGEMENT. IF THE LAND-DISTURBING ACTIVITY AND ANY RELATED BORROW OR WASTE ACTIVITY ARE NOT CONDUCTED BY THE SAME PERSON, THEY SHALL BE CONSIDERED SEPARATE LAND-DISTURBING ACTIVITIES AND MUST BE PERMITTED EITHER THROUGH THE SEDIMENTATION POLL CONTROL ACT AS A ONE-USE BORROW SITE OR THROUGH THE MINING ACT.

PER USGS AND NATIONAL WETLANDS INVENTORY, PERMITS WILL BE OBTAINED FOR STREAM DISTURBANCE.

DISTURBING ACTIVITY AS REQUIRED BY NCGS 113A-54.1		
Plant Control Plan: and Seeding established)	Date	Signature (landowner, financially responsible party, or agent)
Planting areas and c/o Plantation control measures		

NEW STABILIZATION TIMEFRAMES			REV DESC NO. BY
SITE AREA DESCRIPTION	STABILIZATION	TIME FRAME EXCEPTIONS	
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE	
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE	
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED	
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH	
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETER AND HQW ZONES	C-

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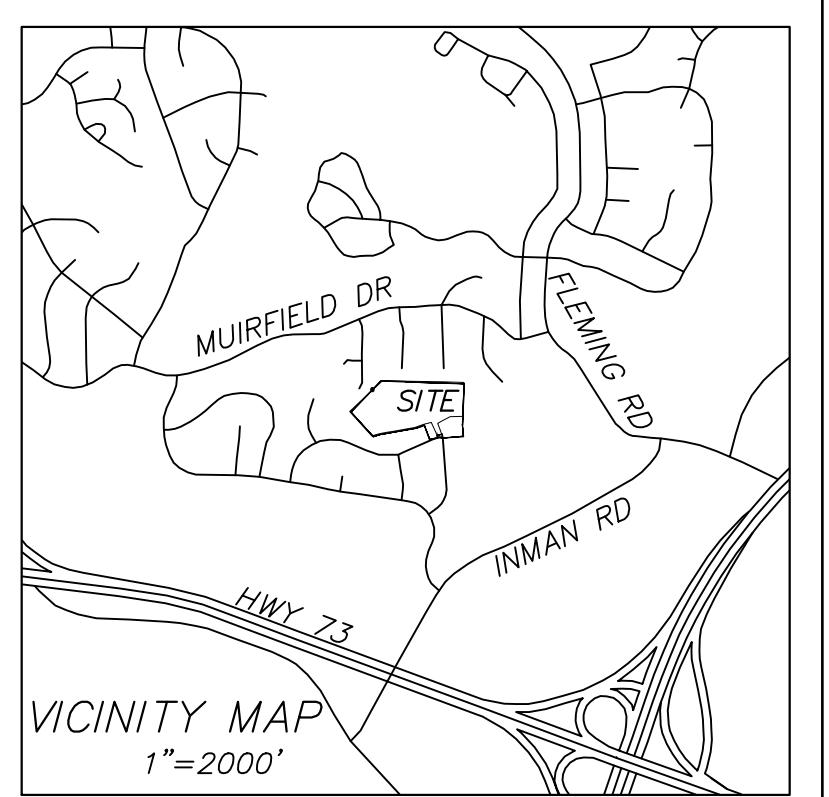
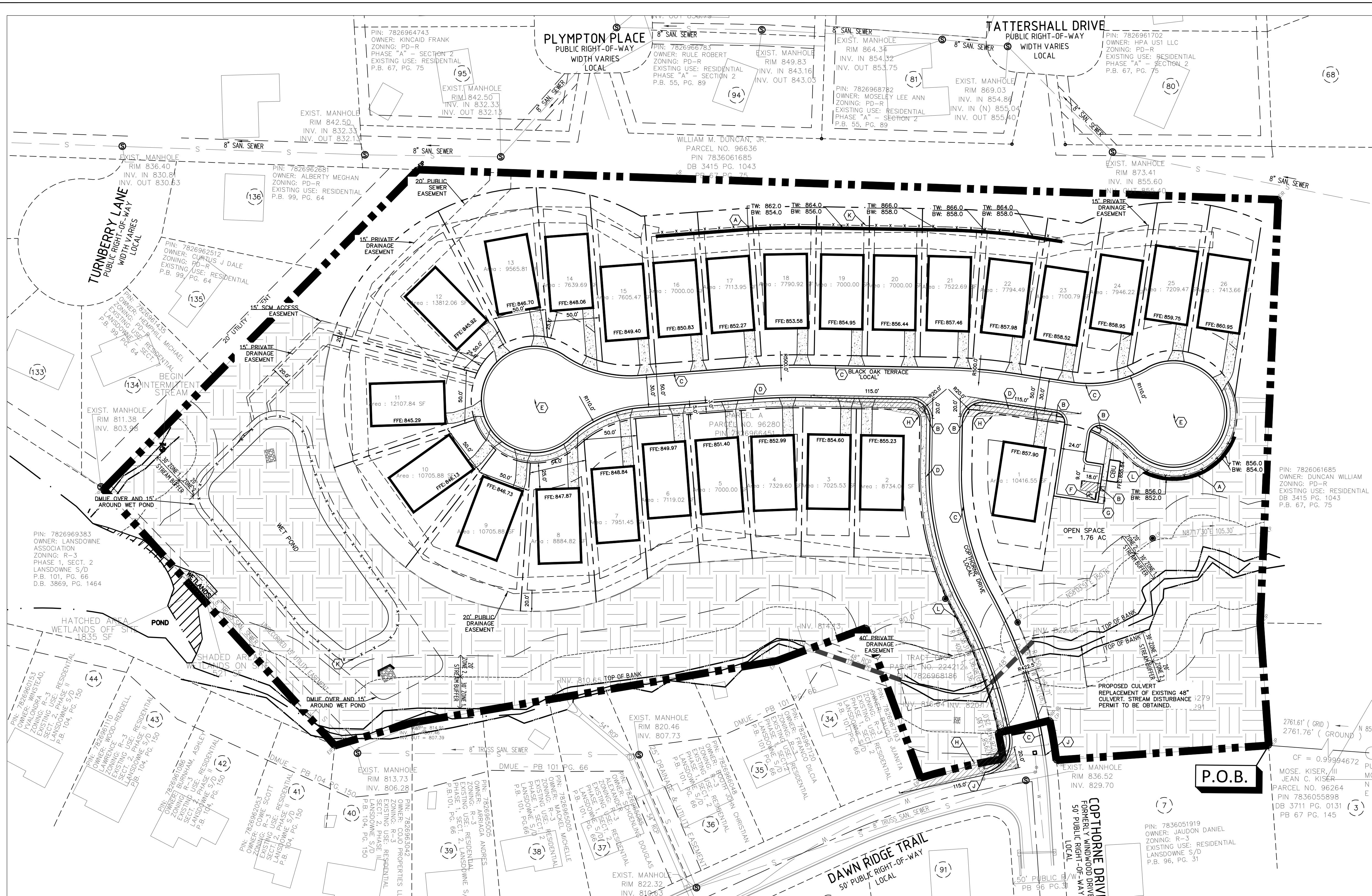
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HAGEN ENGINEERING, PA

DAWN RIDGE HOMES PHASE 2

3224 COPTHORNE DR.
GREENSBORO, NORTH CAROLINA
GREENSBORO PHONE (336) 10/21/2020 10B NUMBER 2024-17
www.hagen-



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**HAGEN
ENGINEERING, PA**
3859 BATTLEGROUND AVE, SUITE 300
GREENSBORO, NC 27410
PHONE (336) 266-3350
www.hagen-eng.com

DAWN RIDGE HOMES
3224 COPTHORNE DR.
GREENSBORO, NORTH CAROLINA
Dra. BAH Des. BAH Date 10/21/2020 Job NUMBER 2024-17

SITE SUMMARY
PIN - 7826966451 & 7836080291 & 7826968186
TOTAL SITE ACREAGE - ± 11.23 ACRES
CURRENT ZONING - R-3 (CLUSTER DEVELOPMENT STANDARDS)
PROPOSED DENSITY - ± 2.315 DU/AC
CURRENT LANDUSE - VACANT
PROPOSED UNITS - 26 UNITS
PROPOSED IMPERVIOUS - 3.12 AC (27.78%)
PROTECTED WATERSHED - GREENSBORO WS-III

R-3 CLUSTER DEVELOPMENT ZONING REQUIREMENTS:
MINIMUM LOT AREA - 7,000 SF
MINIMUM INTERIOR LOT WIDTH - 50'
MIN CORNER LOT WIDTH - 58'
MAXIMUM BUILDING COVERAGE - 40%
FRONT SETBACK - 20'/25'
INTERIOR SIDE SETBACK - 5'
REAR SETBACK - 20'
MAXIMUM BUILDING HEIGHT - 50'

STORMWATER MANAGEMENT
THIS SITE IS OVER 24% IMPERVIOUS AND IS THEREFORE A HIGH DENSITY PROJECT. A STORMWATER BMP IS REQUIRED. ALL IMPERVIOUS WILL BE TREATED BY THE STORMWATER POND AND THE 1, 2, AND 10 YEAR STORM EVENTS WILL BE ATTENUATED.

WATERSHED REQUIREMENTS
STREAM BUFFER
ZONE 1 - 30' UNDISTURBED BUFFER
ZONE 2 - 20' RIPARIAN BUFFER

OPEN SPACE
CLUSTER DEVELOPMENT - 15% OF GROSS SITE AREA
11.23 AC * 15% = 1.68 AC REQUIRED
4.09 AC PROVIDED

PARKING SUMMARY

UNIT TYPE	NUMBER OF UNITS	MIN. REQUIRED SPACES/UNIT
SINGLE FAMILY	26	2.0
TOTAL REQUIRED	26	=
DRIVeway PARKING PROVIDED	52 SPACES	
garages	26 SPACES	
MAIL PARKING	3 SPACES	
TOTAL PARKING PROVIDED	55 SPACES	

GRAPHIC SCALE
50 0 25 50 100 200
(IN FEET)
1 inch = 50 ft.

GENERAL NOTES:
1. BOUNDARY AND EXISTING TOPOGRAPHICAL INFORMATION WAS PROVIDED BY BORUM, WADE AND ASSOCIATES, P.A. ON SEPTEMBER 9, 2024.

NO PLANTINGS OR OTHER OBJECTS SHALL BE WITHIN SIGHT TRIANGLES AT A HEIGHT BETWEEN 2.5' AND 8' (CANOPY) ABOVE THE FINISHED GRADE OF THE PROPOSED DRIVEWAY OR WITHIN ANY STREET INTERSECTION SIGHT TRIANGLE.

REPAIR/REPLACE/INSTALL ANY DAMAGED OR MISSING CURB AND GUTTER ALONG PROPERTY FRONTRAGE PER 2'-6" COG 501.

PRIOR TO INSTALLATION OF PUBLIC SIDEWALK AND/OR DRIVEWAY, OBTAIN PERMITS THROUGH DEVELOPMENT SERVICES (BUILDING INSPECTIONS) BY CALLING (336) 373-2155. WHEN SIDEWALK AND/OR DRIVEWAYS ARE READY FOR INSPECTION, CONTACT DEVELOPMENT SERVICES AT (336) 373-2400 FOR THE ASSIGNMENT OF AN INSPECTOR.

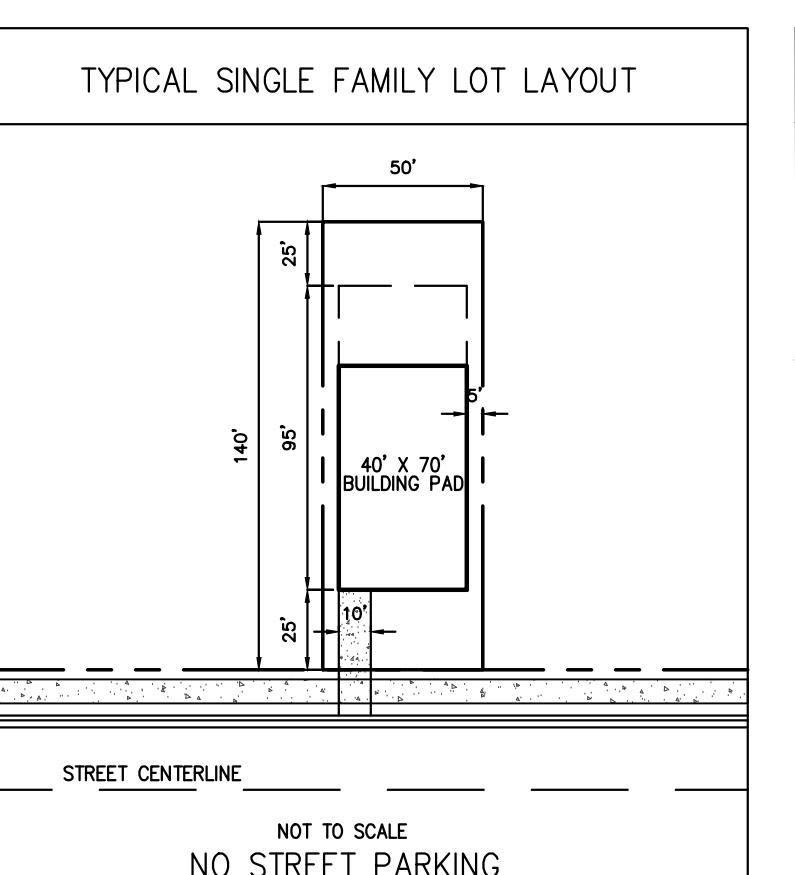
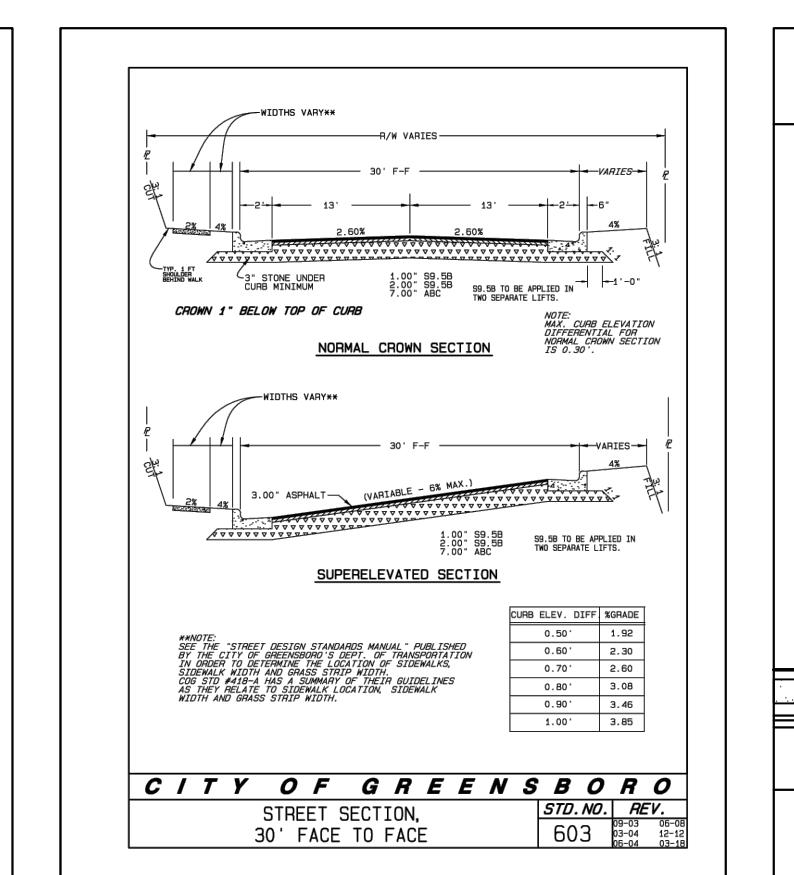
PROVIDE A MINIMUM 4' SIDEWALK WIDTH CLEARANCE AROUND ALL ABOVE GROUND UTILITIES.

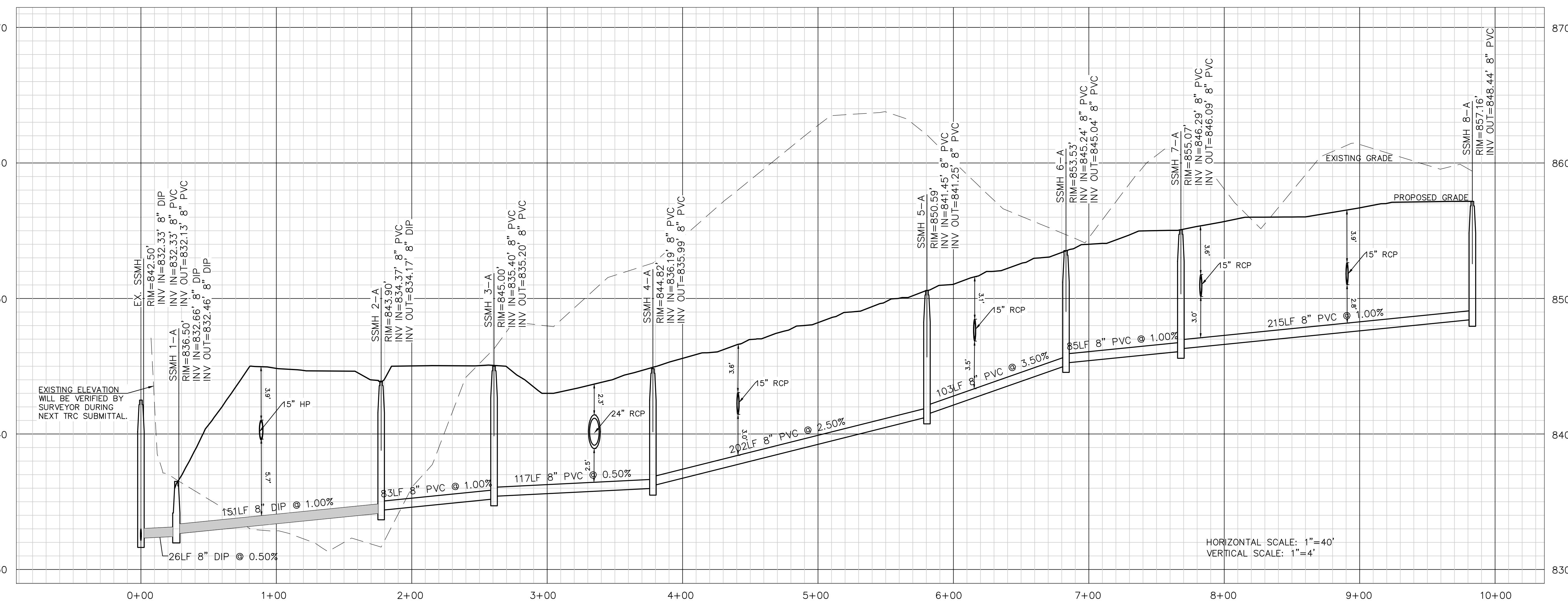
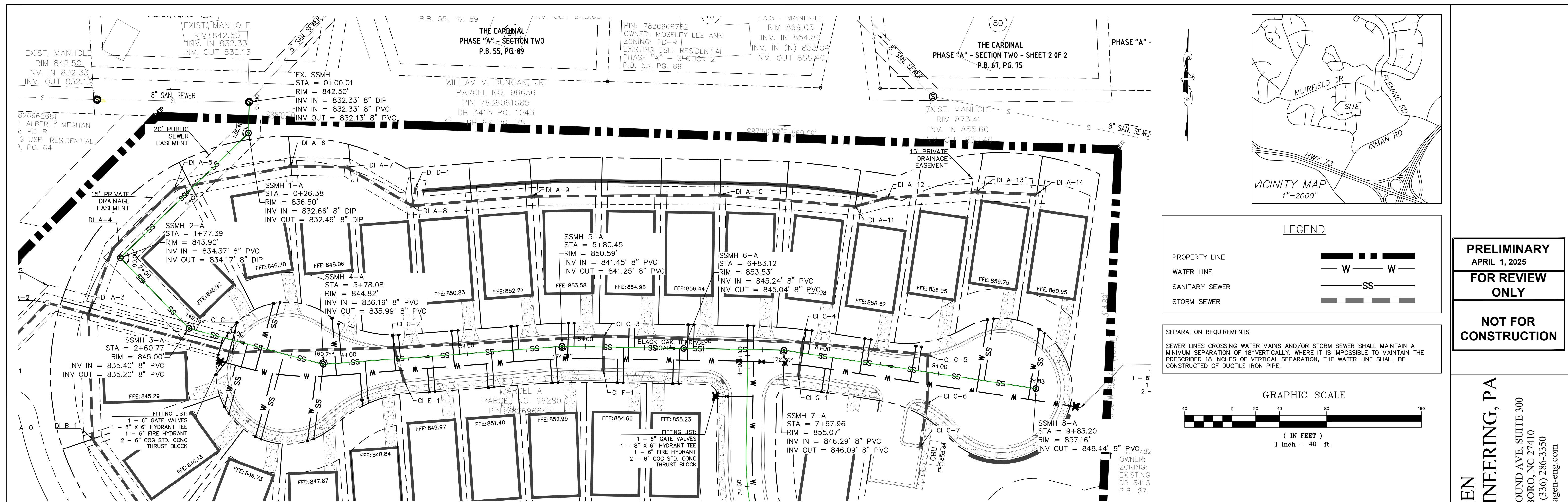
ALL RESIDENTIAL DRIVEWAYS TO BE CONSTRUCTED PER COG 416.

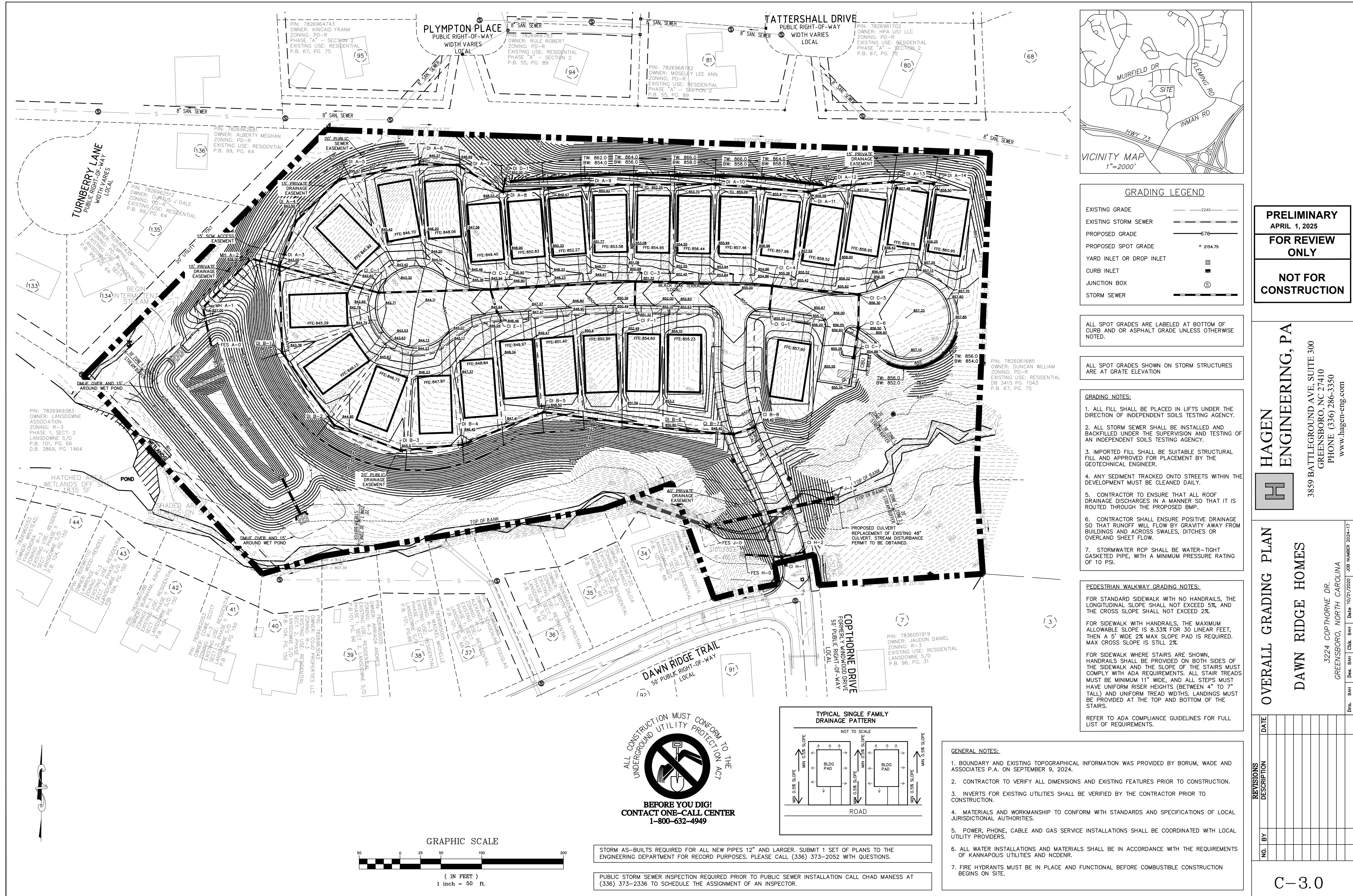
REFERENCE COG 416-4 FOR ACCEPTABLE DRIVEWAY GRADES (SEE DETAILS ON C-7.XX)

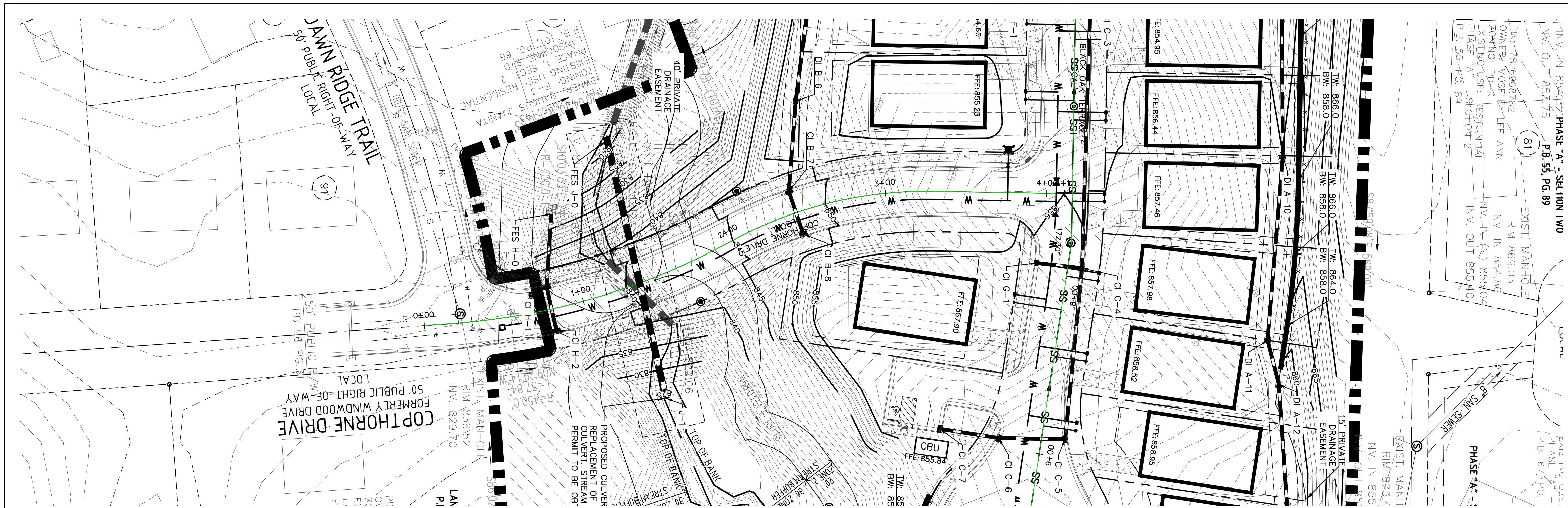
KEY NOTES:

- (A) SEGMENTAL BLOCK RETAINING WALL. TO BE DESIGNED BY OTHERS
- (B) HC RAMPS REQUIRED AT ALL HC PARKING AND WHERE A RUNNING SIDEWALK MEETS THE CURB. (TYP.)
- (C) 30" STANDARD CURB AND GUTTER PER COG 501 (SEE DETAILS ON C-7.5)
- (D) 5' SIDEWALK WITH 3' GRASS STRIPE PER COG 418-A (TYP.) (SEE DETAILS ON C-7.5)
- (E) CUL-DE-SAC PER COG 503 (SEE DETAILS ON C-7.5) COG 503 REQUIRES 110' ENTRY AND EXIT RADII ADJOINING THE 50' CIRCULATION RADIUS AT EACH CUL-DE-SAC.
- (F) CONCRETE WHEEL STOPS REQUIRED AT ALL ADA SPACES WHERE SIDEWALK RAMPS DOWN.
- (G) HANDICAP ACCESSIBILITY SIGNAGE. (SEE DETAIL ON C-7.1)
- (H) SIGHT DISTANCE TRIANGLES.
- (J) CONTINUATION 30" EXISTING CURB IN COPTHORNE DRIVE TO 30" CURB IN DEVELOPMENT TRANSITION AT RIGHT OF WAY, SAWCUT AND REMOVE EXISTING CURB AND GUTTER TO CONSTRUCT NEW CURB RAMP PER COG 418, CENTERED ON THE RADUS.
- (K) BLACK VINYL-COATED CHAINLINK FENCE (MIN. 4' TALL, 6' TALL)
- (L) PEDESTRIAN SAFETY FENCE PER COG 446-A (SEE DETAIL ON C-7.5)









SEPARATION REQUIREMENTS

SEWER LINES CROSSING WATER MAINS AND/OR STORM SEWER SHALL MAINTAIN A MINIMUM SEPARATION OF 18" VERTICALLY. WHERE IT IS IMPOSSIBLE TO MAINTAIN THE PRESCRIBED 18 INCHES OF VERTICAL SEPARATION, THE WATER LINE SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE.

LEGEND

PROPERTY LINE
WATER LINE
SANITARY SEWER
STORM SEWER

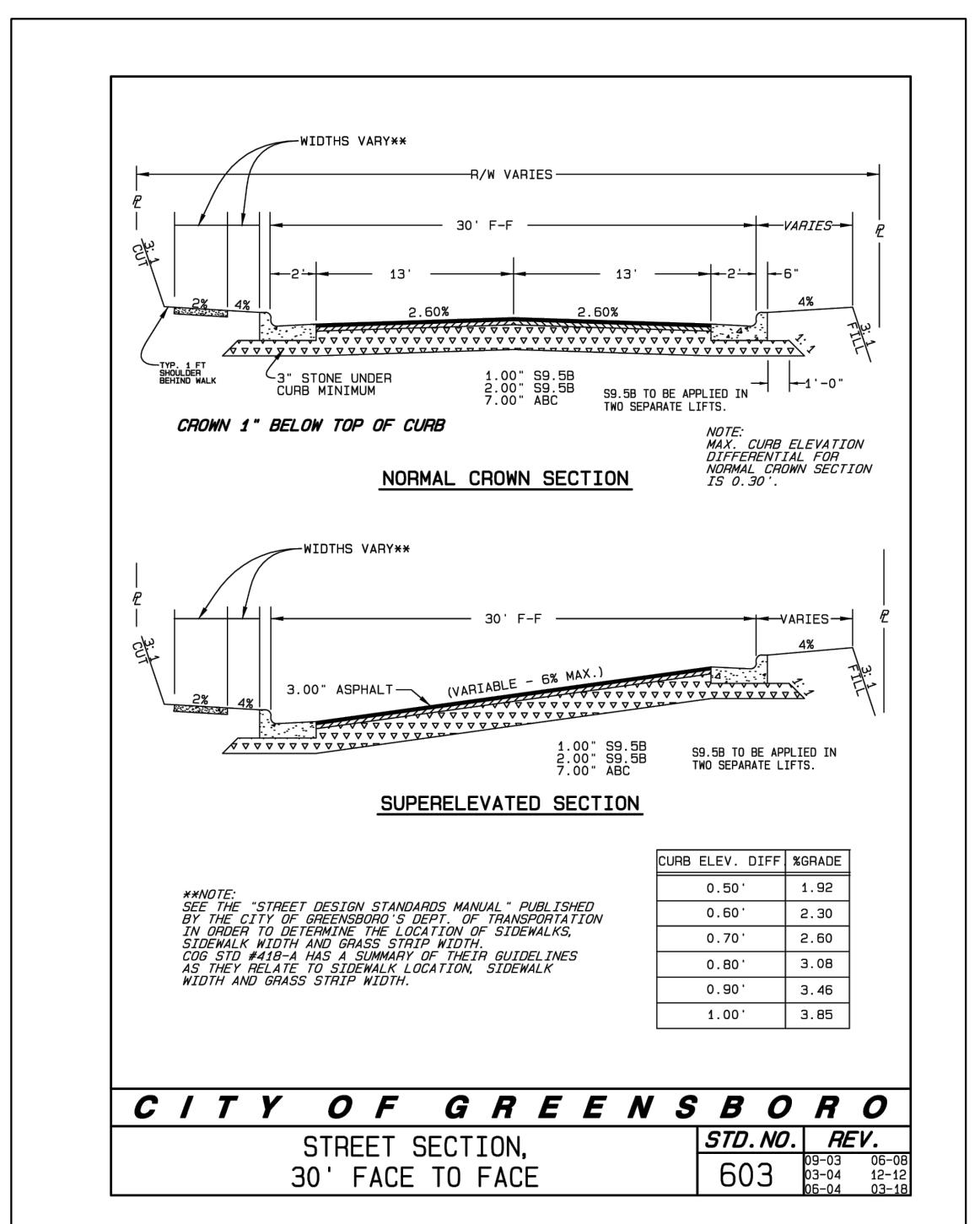
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PRELIMINARY
APRIL 1, 2025

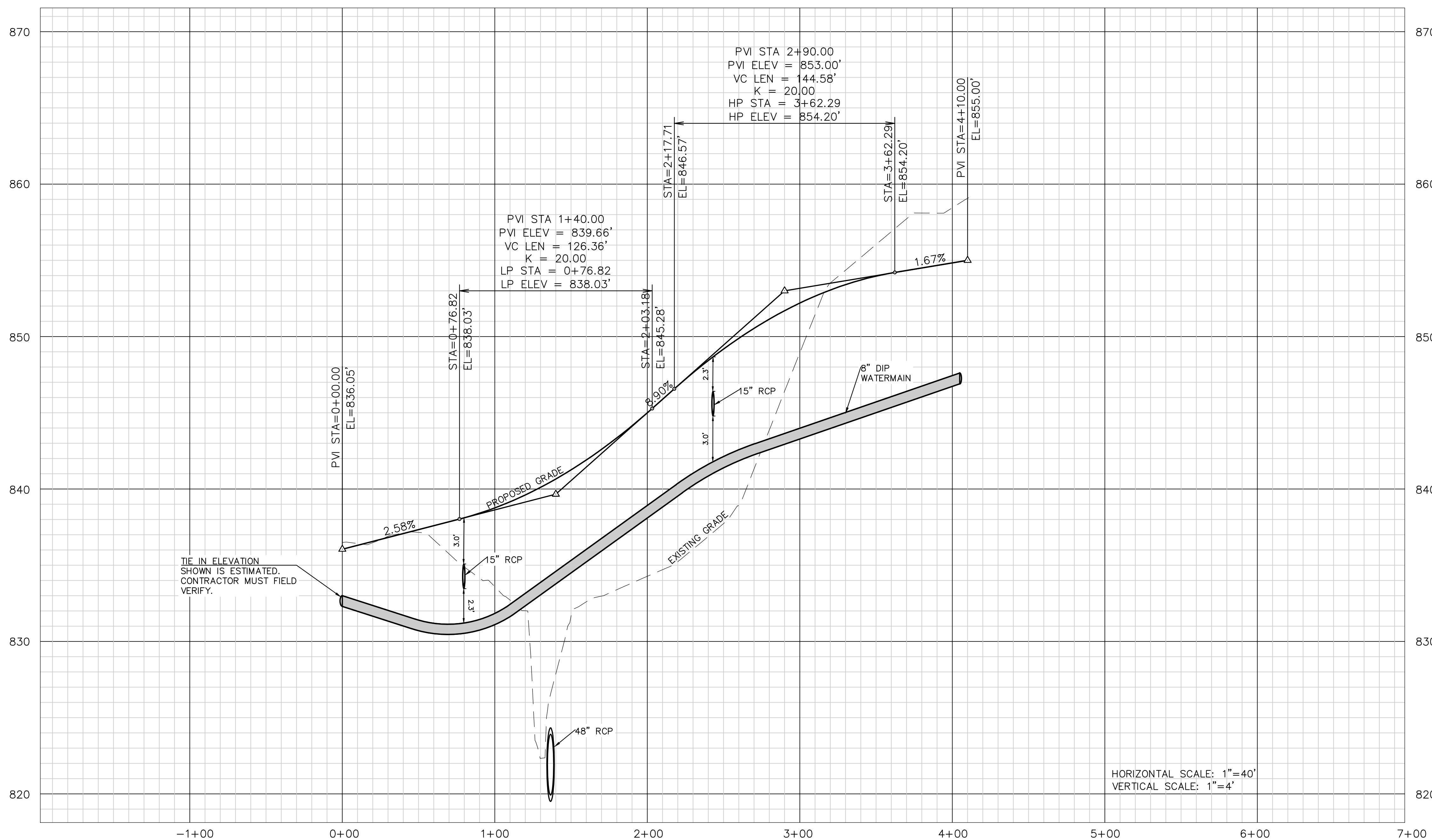
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ROAD PROFILE 1 COPTHORNE ROAD DAWN RIDGE HOME

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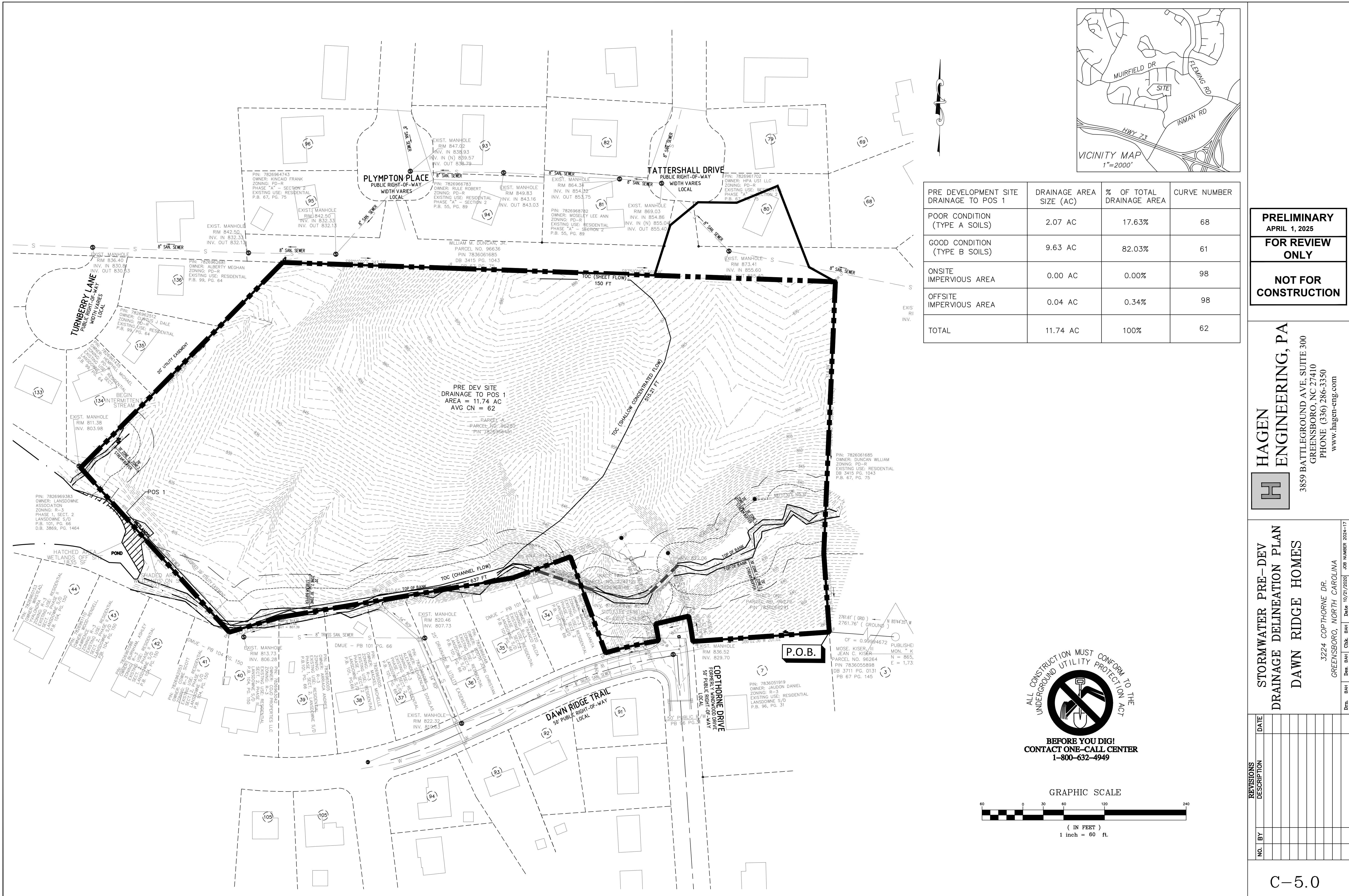


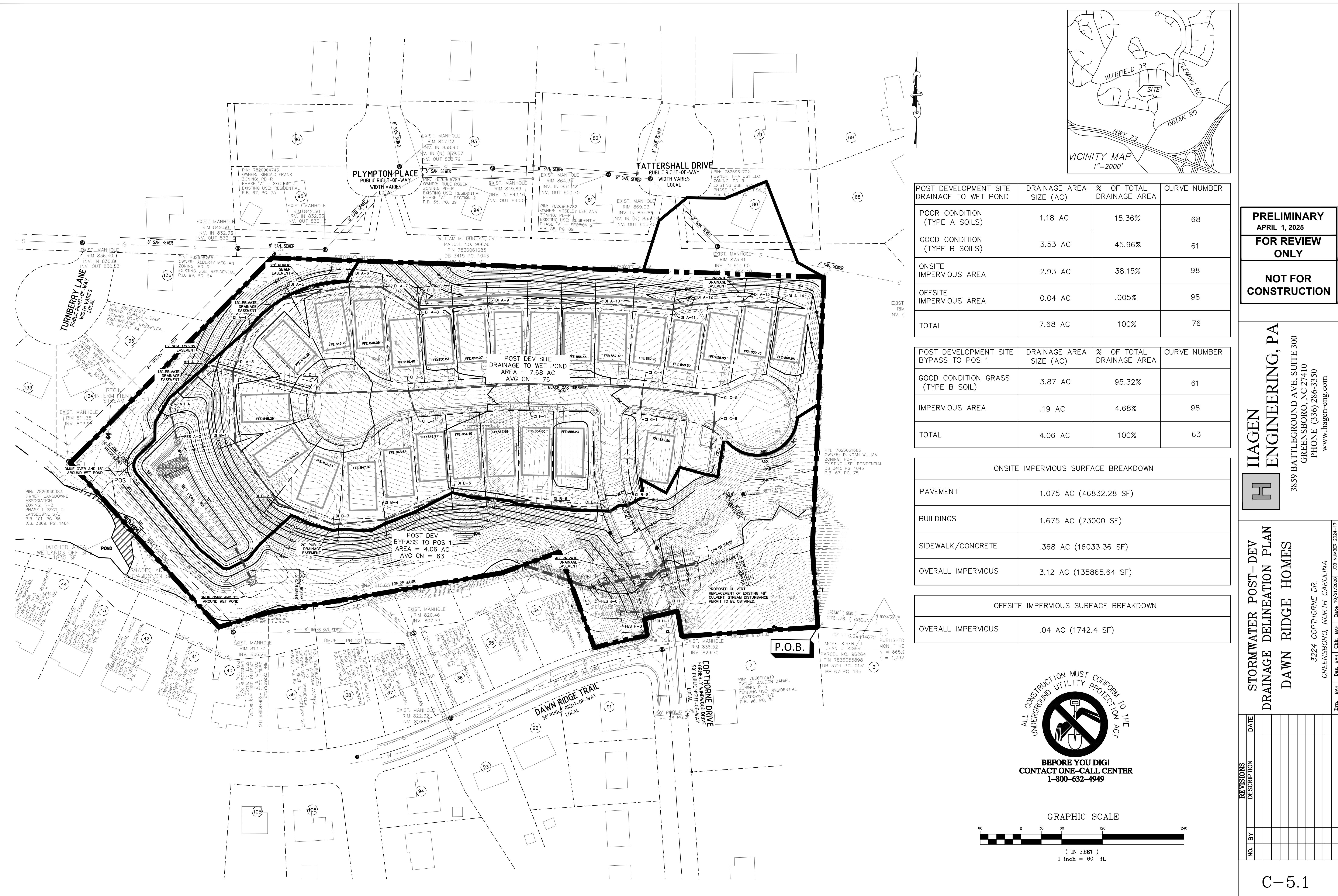
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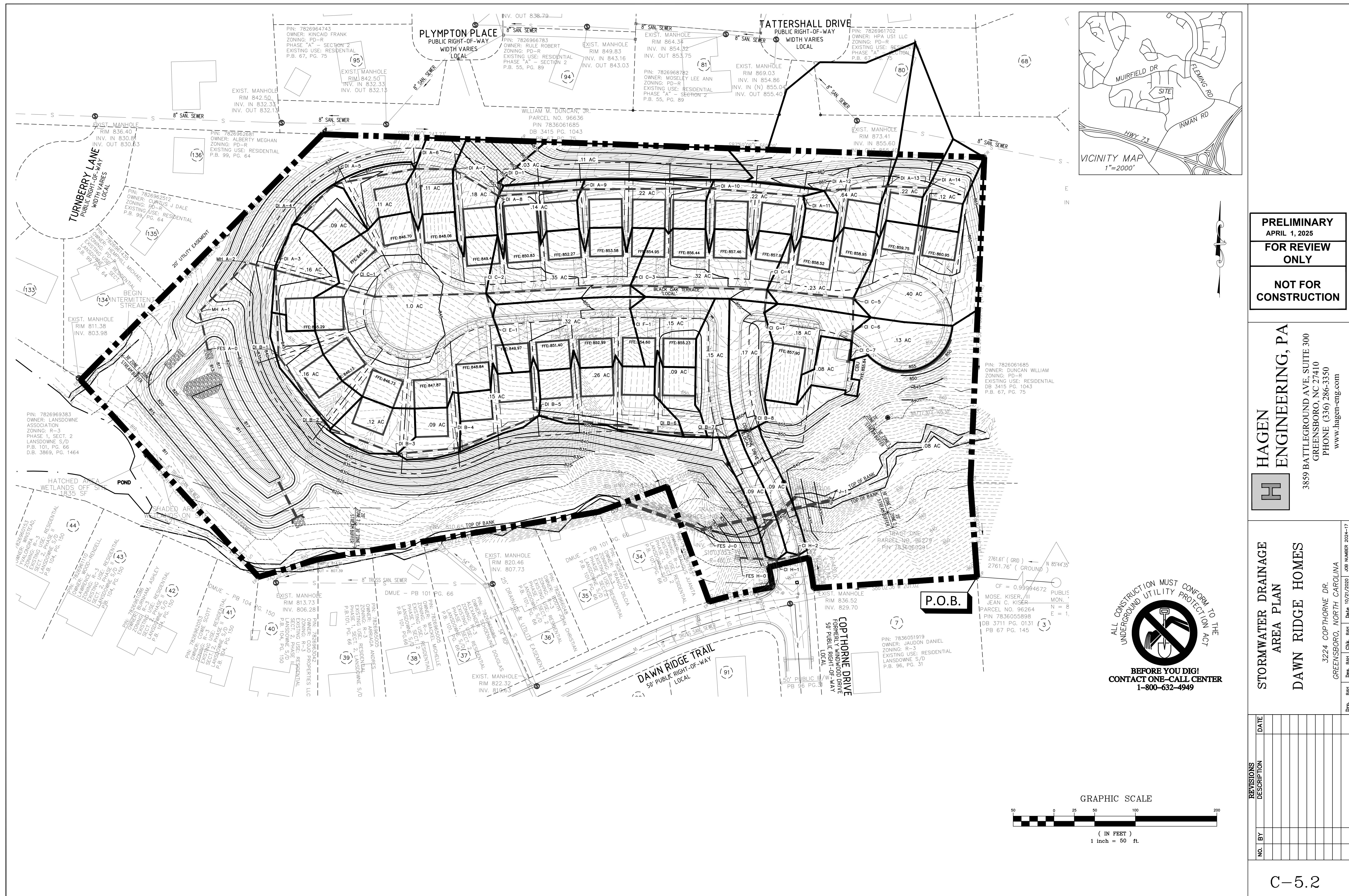
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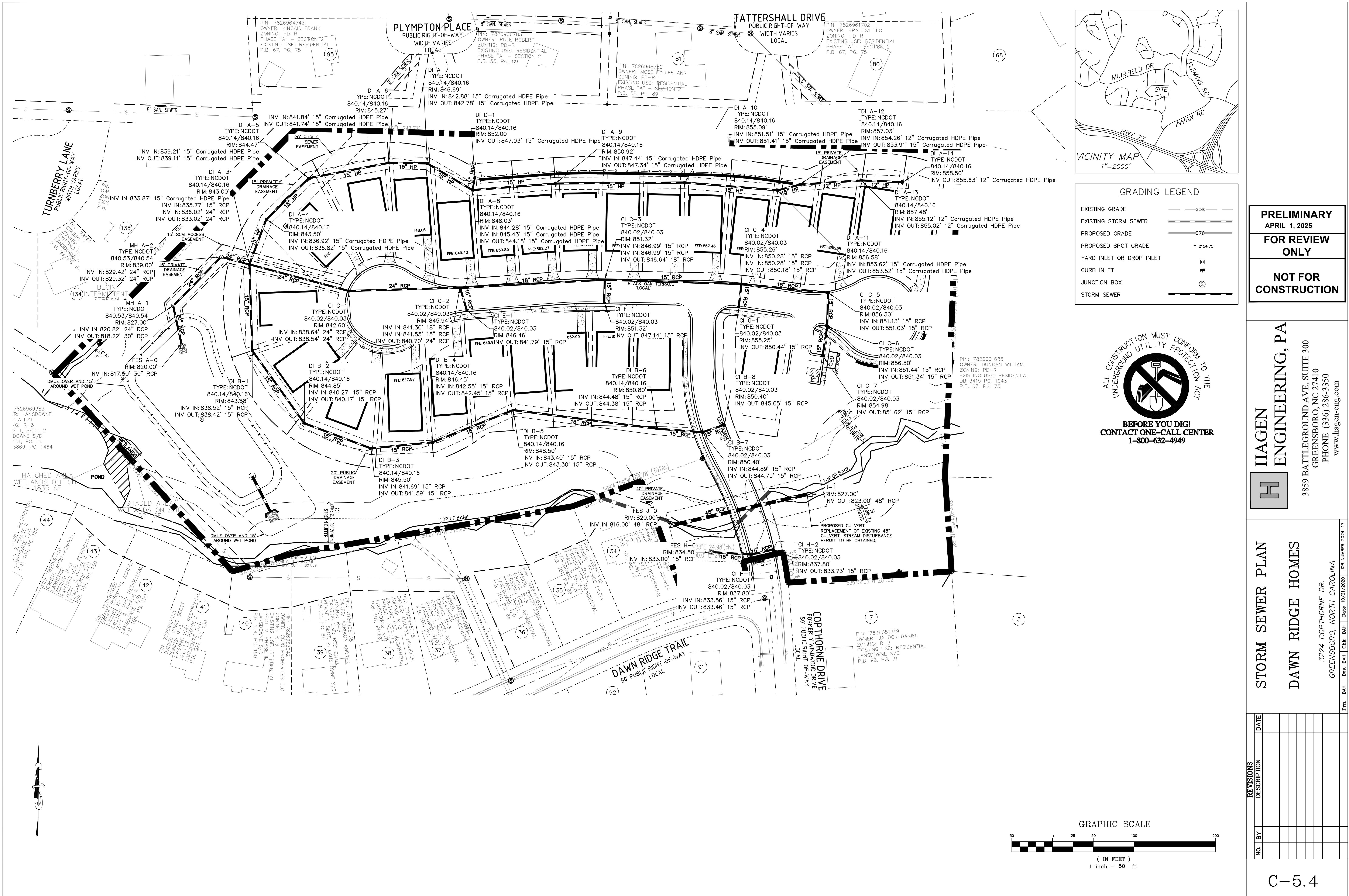
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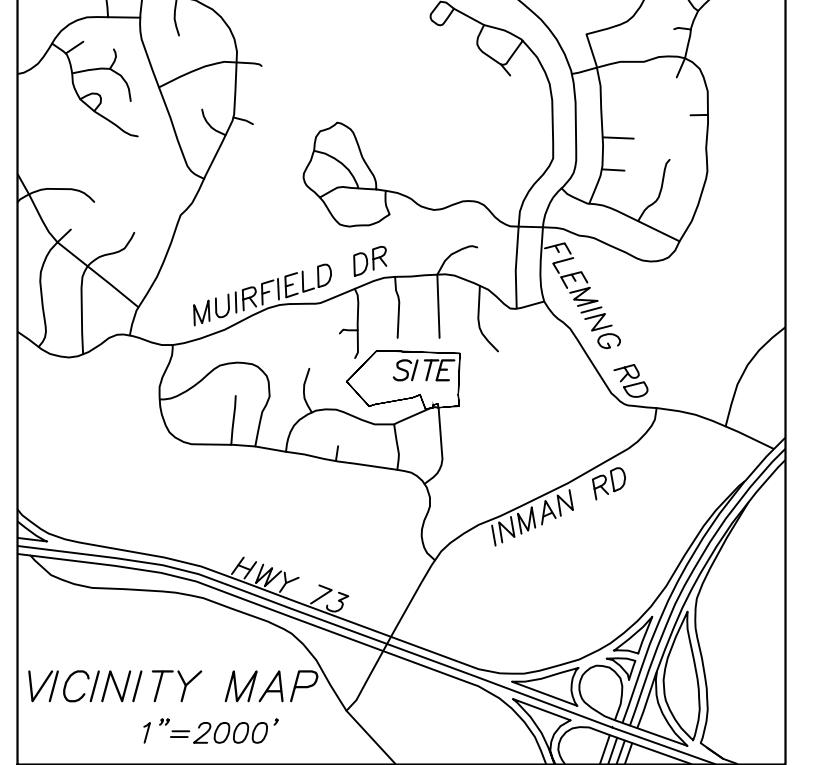






Dawn Ridge																						
TO	FROM	"C"	25 Yr. "	Area To Inlet	25 Yr. Q.	Cumul. Q.	Pipe Length	Pipe Diameter	Pipe Material	Pipe Slope	Inlet Elevation (FROM)	Lower Invert (TO)	Upper Invert (FROM)	Inlet Cover (FROM)	Inlet Cover (TO)	Pipe Diameter	Pipe Area	Hydraulic Radius "R_h"	Roughness Coefficient	Velocity Full	Full Flow Capacity	Actual Flow
FES A-0	MH A-1	0.35	7.54	0.00	0.00	39.30	48	30	RCP	1.50	827.00	817.50	818.22	6.28	2.50	4.91	0.63	0.013	10.26	50.35	39.30	
MH A-1	MH A-2	0.35	7.54	0.00	0.00	39.30	85	24	RCP	10.00	839.00	820.82	829.32	7.68	4.18	2.00	3.14	0.50	0.013	22.83	71.69	39.30
MH A-2	DI A-3	0.35	7.54	0.16	0.43	39.30	36	24	RCP	10.00	843.00	829.42	833.02	7.98	7.58	2.00	3.14	0.50	0.013	22.83	71.69	39.30
DI A-3	DI A-4	0.55	7.54	0.09	0.39	8.88	59	15	HP	5.00	843.50	833.87	836.82	5.43	7.88	1.25	1.23	0.31	0.013	11.80	14.48	8.88
DI A-4	DI A-5	0.55	7.54	0.11	0.45	8.49	73	15	HP	3.00	844.47	836.92	839.11	4.11	5.33	1.25	1.23	0.31	0.013	9.14	11.21	8.49
DI A-5	DI A-6	0.55	7.54	0.11	0.47	8.04	101	15	HP	2.50	845.27	839.21	841.74	2.28	4.01	1.25	1.23	0.31	0.013	8.35	10.24	8.04
DI A-6	DI A-7	0.35	7.54	0.18	0.47	7.58	47	15	HP	2.00	846.69	841.84	842.78	2.66	2.18	1.25	1.23	0.31	0.013	7.46	9.16	7.58
DI A-7	DI A-8	0.55	7.54	0.14	0.60	7.11	65	15	HP	2.00	848.03	842.88	844.18	2.60	2.56	1.25	1.23	0.31	0.013	7.46	9.16	7.11
DI A-8	DI A-9	0.55	7.54	0.22	0.93	6.14	102	15	HP	3.00	850.92	844.28	847.34	2.33	2.50	1.25	1.23	0.31	0.013	9.14	11.21	6.14
DI A-9	DI A-10	0.55	7.54	0.22	0.93	5.21	159	15	HP	2.50	855.09	847.44	851.41	2.43	2.23	1.25	1.23	0.31	0.013	8.35	10.24	5.21
DI A-10	DI A-11	0.70	7.54	0.05	0.25	4.28	115	15	HP	1.75	856.58	851.51	853.52	1.81	2.33	1.25	1.23	0.31	0.013	6.98	8.56	4.28
DI A-11	DI A-12	0.45	7.54	0.64	2.18	4.02	29	15	HP	1.00	857.03	853.62	853.91	1.87	1.71	1.25	1.23	0.31	0.013	5.28	6.47	4.02
DI A-12	DI A-13	0.85	7.54	0.22	1.40	1.84	76	12	HP	1.00	857.48	854.26	855.02	1.46	1.77	1.00	0.79	0.25	0.013	4.55	3.57	1.84
DI A-13	DI A-14	0.50	7.54	0.12	0.44	51	12	HP	1.00	858.50	855.12	855.63	1.87	1.36	1.00	0.79	0.25	0.013	4.55	3.57	0.44	
DI A-14	CI D-1	0.45	7.54	0.11	0.37	0.37	16	12	HP	10.00	852.00	845.43	847.03	3.97	1.60	1.00	0.79	0.25	0.013	14.38	11.29	0.37
DI A-15	CI D-2	0.45	7.54	0.11	0.37	0.37	16	12	HP	10.00	852.00	845.43	847.03	3.97	1.60	1.00	0.79	0.25	0.013	14.38	11.29	0.37
DI A-16	CI D-3	0.45	7.54	0.11	0.37	0.37	16	12	HP	10.00	852.00	845.43	847.03	3.97	1.60	1.00	0.79	0.25	0.013	14.38	11.29	0.37
DI A-17	CI D-4	0.45	7.54	0.11	0.37	0.37	16	12	HP	10.00	852.00	845.43	847.03	3.97	1.60	1.00	0.79	0.25	0.013	14.38	11.29	0.37
DI A-18	CI D-5	0.45	7.54	0.11	0.37	0.37	16	12	HP	10.00	852.00	845.43	847.03	3.97	1.60	1.00	0.79	0.25	0.013	14.38	11.29	0.37
DI A-19	CI D-6	0.45	7.54	0.11	0.37	0.37	16	12	HP	10.00	852.00	845.43	847.03	3.97	1.60	1.00	0.79	0.25	0.013	14.38	11.29	0.37
DI A-20	CI D-7	0.45	7.54	0.11	0.37	0.37	16	12	HP	10.00	852.00	845.43	847.03	3.97	1.60	1.00	0.79	0.25	0.013	14.38	11.29	0.37
DI A-21	CI D-8	0.45	7.54	0.11	0.37	0.37	16	12	HP	10.00	852.00	845.43	847.03	3.97	1.60	1.00	0.79	0.25	0.013	14.38	11.29	0.37
DI A-22	CI D-9	0.45	7.54	0.11	0.37	0.37	16	12	HP	10.00	852.00	845.43	847.03	3.97	1.60	1.00	0.79	0.25	0.013	14.38	11.29	0.37
DI A-23	CI D-10	0.45	7.54	0.11	0.37	0.37	16	12	HP	10.00	852.00	845.43	847.03	3.97	1.60	1.00	0.79	0.25	0.013	14.38	11.29	0.37
DI A-24	CI D-11	0.45	7.54	0.11	0.37	0.37	16	12	HP	10.00	852.00	845.43	847.03	3.97	1.60	1.00	0.79	0.25	0.013	14.38	11.29	0.37
DI A-25	CI D-12	0.45	7.54	0.11	0.37	0.37	16	12	HP	10.00	852.00	845.43	847.03	3.97	1.60	1.00	0.79	0.25	0.013	14.38	11.29	0.37
DI A-26	CI D-13	0.45	7.54	0.11	0.37	0.37	16	12	HP	10.00	852.00	845.43	847.03	3.97	1.60	1.00	0.79	0.25	0.013	14.38	11.29	0.37
DI A-27	CI D-14	0.45	7.54	0.11	0.37	0.37	16	12	HP	10.00	852.00	845.43	847.03	3.97	1.60	1.00	0.79	0.25	0.013	14.38	11.29	0.37
DI A-28	CI D-15	0.45	7.54	0.11	0.37	0.37	16	12	HP	10.00	852.00	845.43	847.03	3.97	1.60	1.00	0.79	0.25	0.013	14.38	11.29	0.37
DI A-29	CI D-16	0.45																				





CULVERT 1	DRAINAGE AREA SIZE (AC)	% OF TOTAL DRAINAGE AREA	CURVE NUMBER
POOR CONDITION (SOIL A)	6.98 AC	17.30%	68
GOOD CONDITION (SOIL B)	23.46 AC	58.14%	61
IMPERVIOUS AREA	9.91 AC	24.56%	98
TOTAL	40.35 AC	100%	71

CULVERT 1 FLOW CALCS
DA = 40.35 AC
FLOW DETERMINED USING SCS METHOD SEE STORMWATER REPORT FOR FULL DESIGN BREAKDOWN FOR FLOW CALCS
Q25 = 79.54 CFS
Q100 = 97.96 CFS

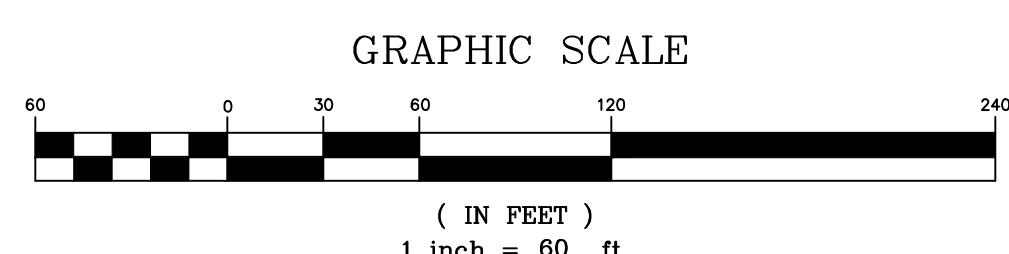
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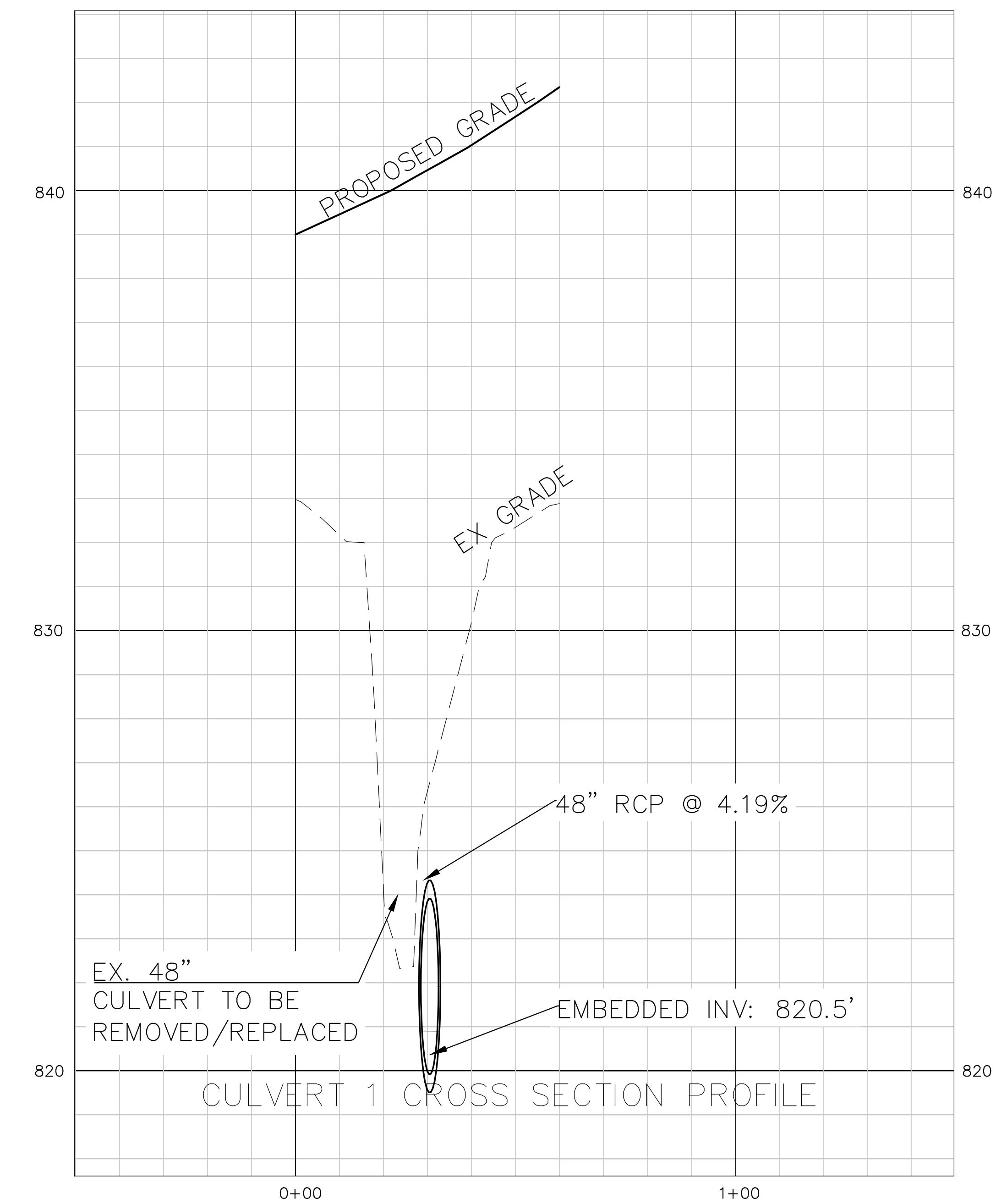
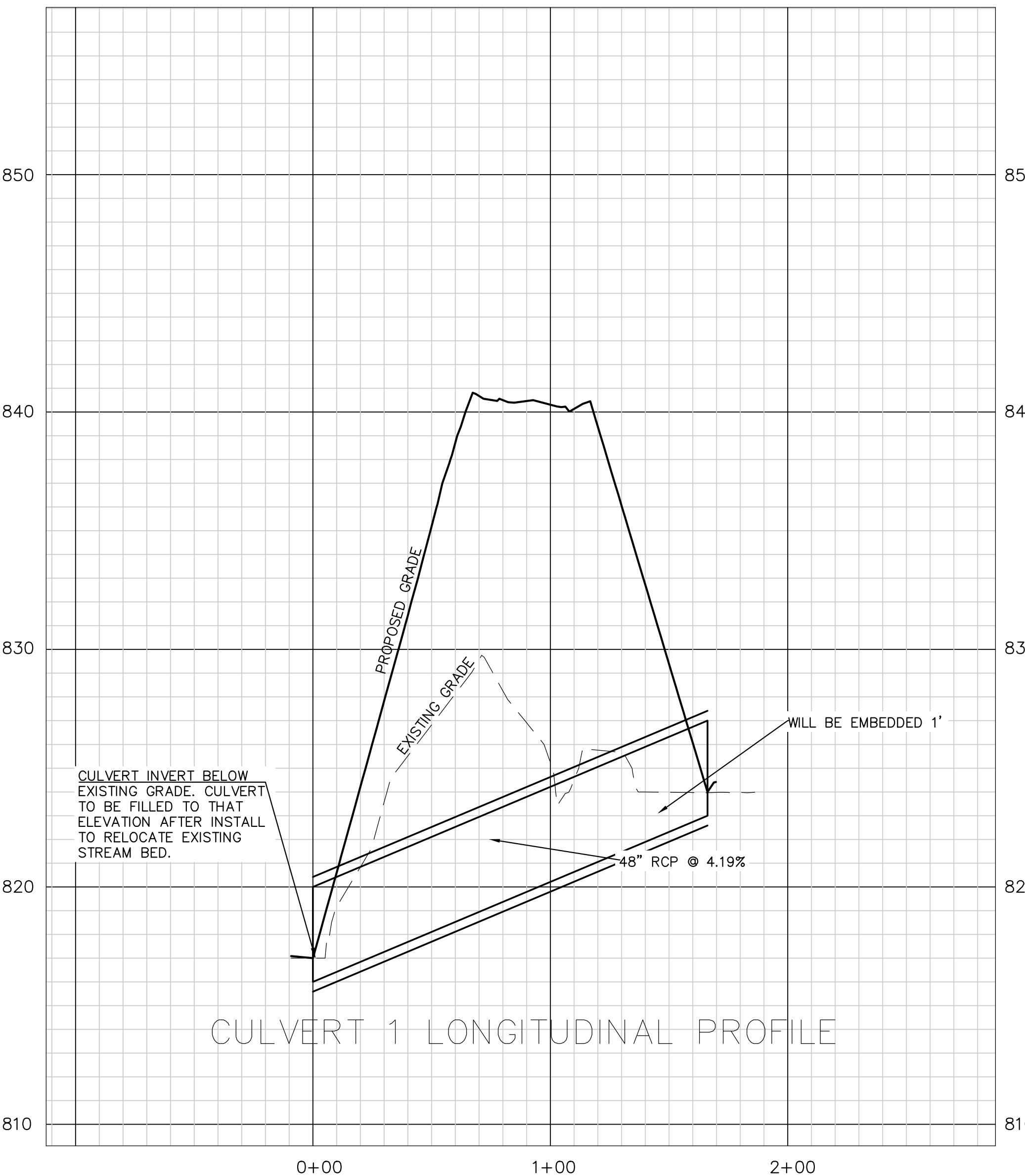
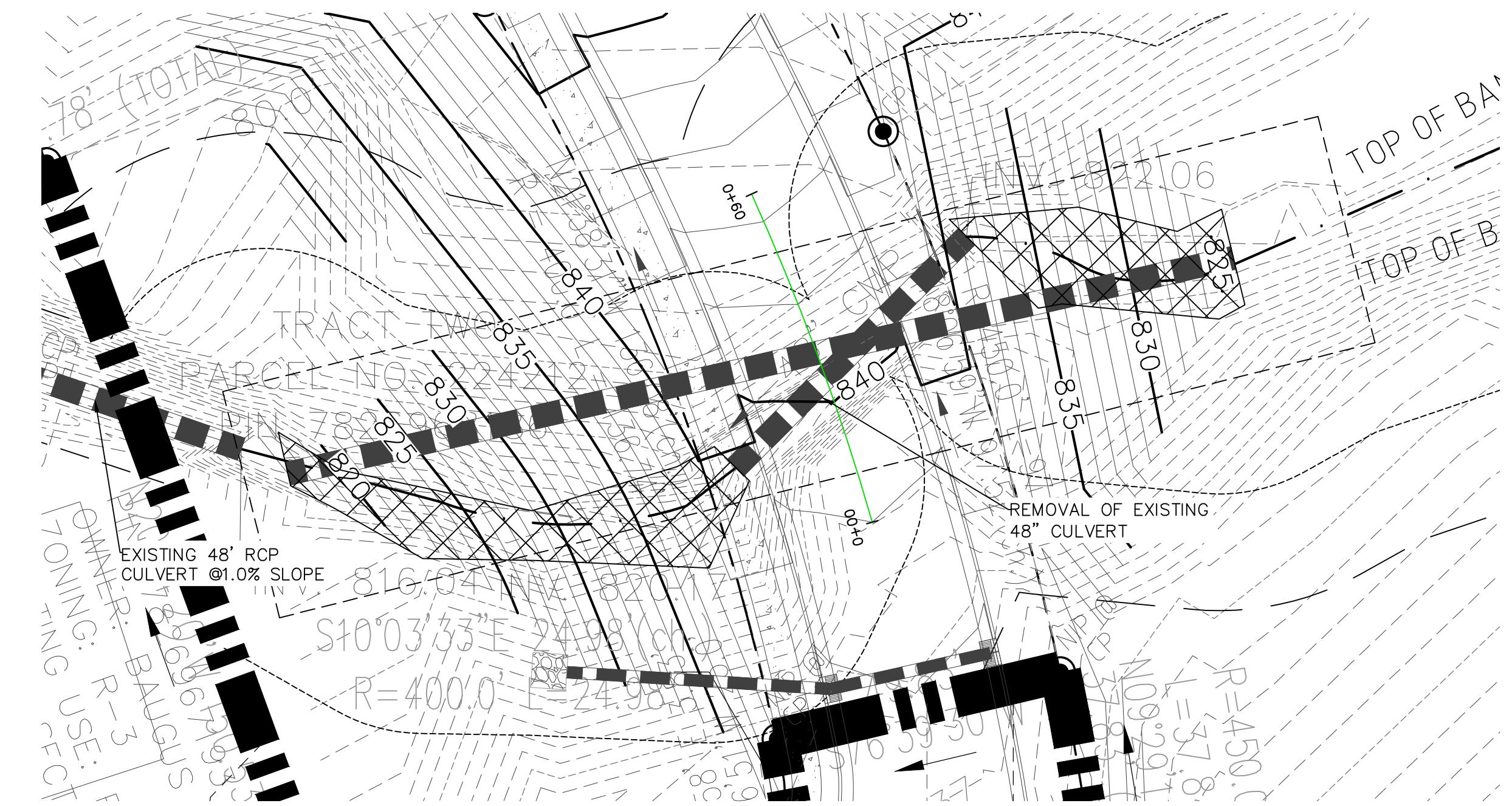
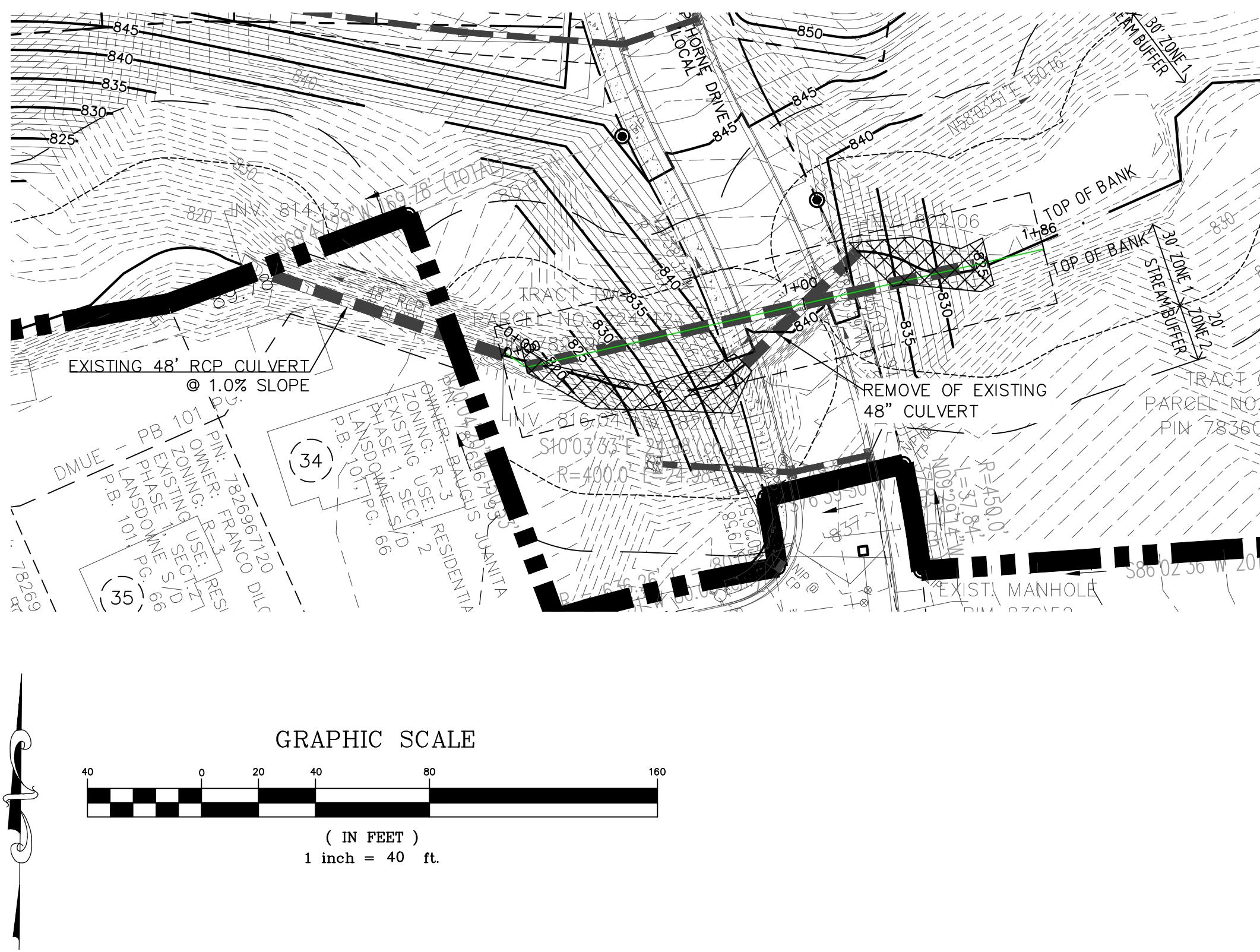
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Dra. B&H Des. B&H Cdrk. B&H Date 10/21/2020 Job Number 2024-17

NO.	REVISIONS	BY	DESCRIPTION	DATE

SKIMMER BASIN SPECIFICATIONS

SKIMMER TO BE ATTACHED TO POND OUTLET PIPE

CONSTRUCTION SPECIFICATIONS:

1. CLEAR, GRUB, AND STRIP THE AREA UNDER THE EMBANKMENT OF ALL VEGETATION AND ROOT MAT. REMOVE ALL SURFACE SOIL CONTAINING HIGH AMOUNTS OF ORGANIC MATTER AND STOCKPILE OR DISPOSE OF IT PROPERLY. HAUL ALL OBJECTIONABLE MATERIAL TO THE DESIGNATED DISPOSAL AREA. PLACE TEMPORARY SEDIMENT CONTROL MEASURES BELOW BASIN AS NEEDED.

2. ENSURE THAT FILL MATERIAL FOR THE EMBANKMENT IS FREE OF ROOTS, WOODY VEGETATION, ORGANIC MATTER, AND OTHER OBJECTIONABLE MATERIAL. PLACE THE FILL IN THE LISTS NOT TO EXCEED 9 INCHES, AND MACHINE COMPACT IT. OVER FILL THE EMBANKMENT 6 INCHES TO ALLOW FOR SETTLEMENT.

3. SHAPE THE BASIN TO THE SPECIFIED DIMENSIONS. PREVENT THE SKIMMING DEVICE FROM SETTLING INTO THE MUD BY EXCAVATING A SHALLOW PIT UNDER THE SKIMMER OR PROVIDING A LOW SUPPORT UNDER THE SKIMMER OF STONE OR TIMBER.

4. PLACE THE BARREL (TYPICALLY 4-INCH SCHEDULE 40 PVC PIPE) ON A FIRM, SMOOTH FOUNDATION OF IMPERVIOUS SOIL. DO NOT USE PERVIOUS MATERIAL SUCH AS SAND, GRAVE, OR CRUSHED STONE AS BACKFILL AROUND THE PIPE. PLACE THE FILL MATERIAL AROUND THE PIPE SPILLWAY IN 4-INCH LAYERS AND COMPACT IT UNDER AND AROUND THE PIPE TO AT LEAST THE SAME DENSITY AS THE ADJACENT EMBANKMENT. CARE MUST BE TAKEN NOT TO RAISE THE PIPE FROM THE FIRM CONTACT WITH ITS FOUNDATION WHEN COMPACTING UNDER THE PIPE HAUNCHES. PLACE A MINIMUM DEPTH OF 2 FEET OF COMPACTED BACKFILL OVER THE PIPE SPILLWAY BEFORE CROSSING IT WITH CONSTRUCTION EQUIPMENT. IN NO CASE SHOULD THE PIPE CONDUIT BE INSTALLED BY CUTTING A TRENCH THROUGH THE DAM AFTER THE EMBANKMENT IS COMPLETE.

5. ASSEMBLE THE SKIMMER FOLLOWING THE MANUFACTURERS INSTRUCTIONS, OR AS DESIGNED.

6. LAY THE ASSEMBLED SKIMMER ON THE BOTTOM OF THE BASIN WITH THE FLEXIBLE JOINT AT THE INLET OF THE BARREL PIPE. ATTACH THE FLEXIBLE JOINT TO THE BARREL PIPE AND POSITION THE SKIMMER OVER THE EXCAVATED PIT OR SUPPORT. BE SURE TO ATTACH A ROPE TO THE SKIMMER AND ANCHOR IT TO THE SIDE OF THE BASIN. THIS WILL BE USED TO PULL THE SKIMMER TO THE SIDE FOR MAINTENANCE.

7. EARTHEN SPILLWAYS-INSTALL THE SPILLWAY IN THE UNDISTURBED SOIL TO THE GREATEST EXTENT POSSIBLE. THE ACHIEVEMENT OF PLANNED ELEVATIONS, GRADE, DESIGN WIDTH, AND ENTRANCE AND EXIT CHANNEL SLOPED ARE CRITICAL TO THE SUCCESSFUL OPERATION OF THE SPILLWAY. THE SPILLWAY SHOULD BE LINED WITH LAMINATED PLASTIC OR IMPERMEABLE GEOTEXTILE FABRIC. THE FABRIC MUST BE WIDE AND LONG ENOUGH TO COVER THE BOTTOM AND EXTEND UP THE SLOPES OF THE EMBANKMENT. THE FABRIC MUST BE SECURED WITH 8-INCH STAPLES OR PINS. THE FABRIC MUST BE LONG ENOUGH TO EXTEND DOWN THE SLOPE AND ONTO STABILIZED GROUND. THE WIDTH OF THE FABRIC MUST BE ONE PIECE, NOT JOINED OR SPLICED; OTHERWISE, WATER CAN GET UNDER THE FABRIC. IF THE LENGTH OF THE FABRIC IS INSUFFICIENT FOR THE ENTIRE LENGTH OF THE SPILLWAY, MULTIPLE SECTIONS, SPANNING THE COMPLETE WIDTH MAY BE USED. THE UPPER SECTIONS SHOULD OVERLAP THE LOWER SECTION(S) SO THAT WATER CANNOT FLOW UNDER THE FABRIC. SECURE THE UPPER EDGE AND SIDES OF THE FABRIC IN A TRENCH WITH STAPLES OR PINS. (ADAPTED FROM "A MANUAL FOR DESIGNING, INSTALLING AND MAINTAINING SKIMMER SEDIMENT BASINS," FEBRUARY, 1999, J. W. FAIRCLOTH & SON.)

8. INLETS-DISCHARGE WATER INTO THE BASIN IN A MANNER TO PREVENT EROSION. USE TEMPORARY SLOPE DRAINS OR DIVERSIONS WITH OUTLET PROTECTION TO DIVERT SEDIMENT-LADDEN WATER TO THE UPPER END OF THE POOL AREA TO IMPROVE BASIN TRAP EFFICIENCY (REFERENCES: RUNOFF CONTROL MEASURES AND OUTLET PROTECTION).

9. EROSION CONTROL-CONTRACT THE STRUCTURE SO THAT THE DISTURBED AREA IS MINIMIZED. DIVERT SURFACE WATER AWAY FROM BARE AREAS. COMPLETE THE EMBANKMENT BEFORE THE AREA IS CLEARED. STABILIZE THE EMERGENCY SPILLWAY EMBANKMENT AND ALL OTHER DISTURBED AREA ABOVE THE CREST OF THE PRINCIPAL SPILLWAY IMMEDIATELY AFTER CONSTRUCTION (REFERENCES: SURFACE STABILIZATION).

10. INSTALL SILT FENCE BAFFLES WITH MINIMUM 10' SPACING.

11. AFTER ALL THE SEDIMENT-PRODUCING AREA HAVE BEEN PERMANENTLY STABILIZED, REMOVE THE STRUCTURE AND ALL THE UNSTABLE SEDIMENT. SMOOTH THE AREA TO BLEND WITH THE ADJOINING AREAS AND STABILIZE PROPERLY (REFERENCES: SURFACE STABILIZATION).

MAINTENANCE:

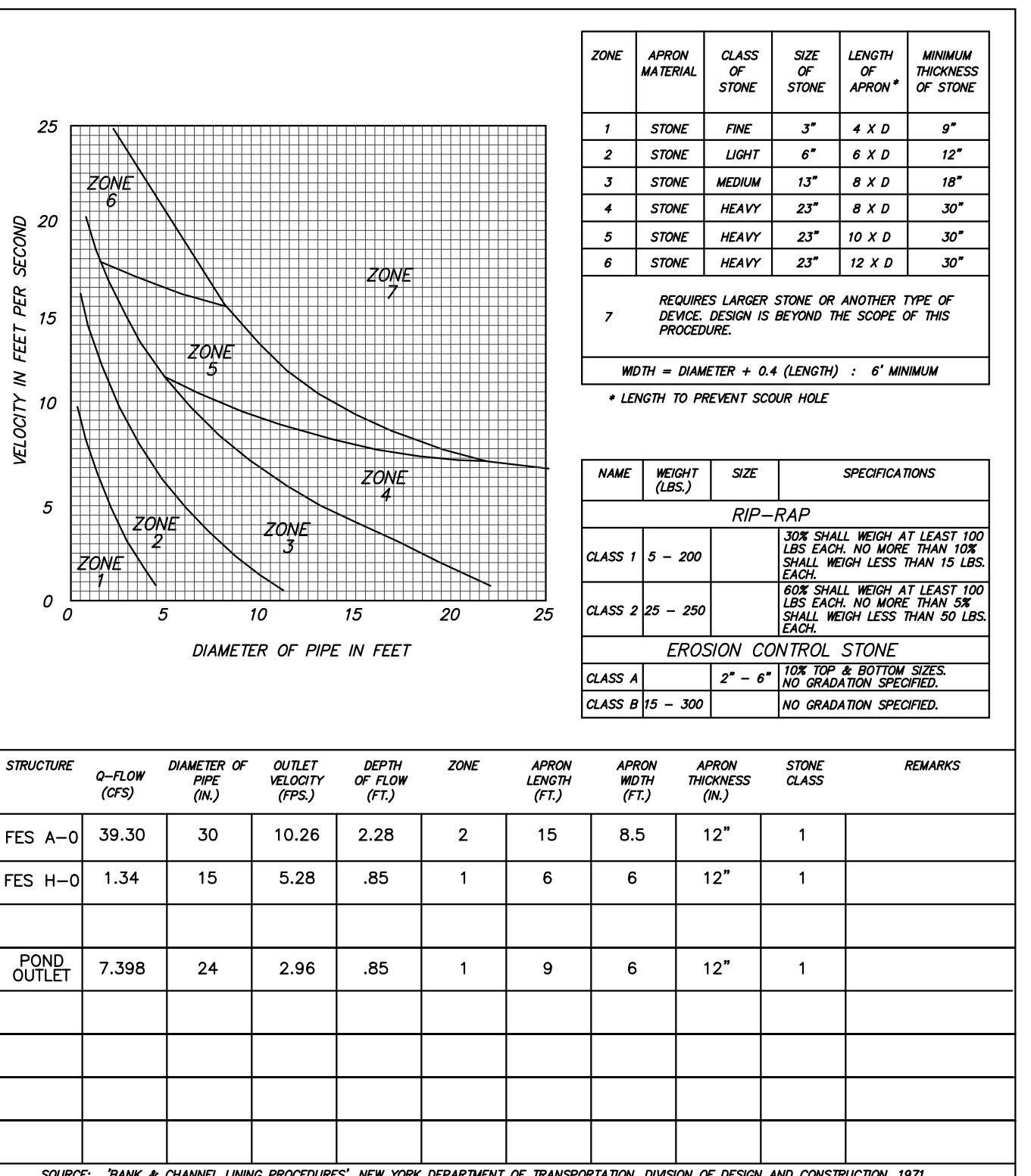
INSPECT SKIMMER SEDIMENT BASINS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (ONE-HALF INCH OR GREATER) RAINFALL EVENT AND REPAIR IMMEDIATELY. REMOVE SEDIMENT AND RESTORE THE BASIN TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT ACCUMULATES TO ONE-HALF THE HEIGHT OF THE FIRST BAFFLE. PULL THE SKIMMER TO ONE SIDE SO THAT THE SEDIMENT UNDERNEATH IT CAN BE EXCAVATED. EXCAVATE THE SEDIMENT FROM THE ENTIRE BASIN, NOT JUST AROUND THE SKIMMER OR THE FIRST CELL. MAKE SURE VEGETATION GROWING IN THE BOTTOM OF THE BASIN DOES NOT HOLD DOWN THE SKIMMER. RE-ANCHOR THE BAFFLES IF WATER IS FLOWING UNDERNEATH OR AROUND THEM.

IF THE SKIMMER ARM OR BARREL PIPE IS CLOGGED, THE ORIFICE CAN BE REMOVED AND THE OBSTRUCTION CLEARED WITH A PLUMBER'S SNAKE OR BY FLUSHING WITH WATER. BE SURE AND REPLACE THE ORIFICE BEFORE REPOSITIONING THE SKIMMER.

IF THE SKIMMER IS CLOGGED WITH TRASH AND THERE IS WATER IN THE BASIN, USUALLY JERKING ON THE ROPE WILL MAKE THE SKIMMER BOB UP AND DOWN AND DISLOCATE THE DEBRIS AND RESTORE FLOW. IF THIS DOES NOT WORK, PULL THE SKIMMER OVER TO THE SIDE OF THE BASIN AND REMOVE THE DEBRIS. ALSO CHECK THE ORIFICE INSIDE THE SKIMMER TO SEE IF IT IS CLOGGED; IF SO REMOVE THE DEBRIS.

CHECK THE FABRIC LINED SPILLWAY FOR DAMAGE AND MAKE ANY REQUIRED REPAIRS WITH FABRIC THAT SPANS THE FULL WIDTH OF SPILLWAY. CHECK THE EMBANKMENT, SPILLWAYS, AND OUTLET FOR EROSION DAMAGE, AND INSPECT THE OTHER DEBRIS FROM THE SKIMMER AND POOL AREAS.

FREEZING WEATHER CAN RESULT IN ICE FORMING IN THE BASIN. SOME SPECIAL PRECAUTIONS SHOULD BE TAKEN IN THE WINTER TO PREVENT THE SKIMMER FROM PLUGGING WITH ICE.



RIP-RAP PAD SIZING

Wet Pond 1 Water Quality Design Calculations

Drainage Area	7.68 Acres
Impervious Area to Pond (Total impervious/43560)	3.12 Acres
Buildings	73,000 SF
Sidewalk/driveways	16033.36 SF
Pavement	46832.28 SF
Total	135,866 SF

% Impervious (Imp. Area to Pond / DA)	40.61%
Rv = 0.05 + 0.9(%Imp)	0.41551319
VPP (Volume permanent pool)	20842 Cubic Feet
APP (Area Permanent Pool)	6150.36 SF
DAV (Average Depth = VPP / APP)	3.39
Required WQV (cfs) = Rv * Ad * 43560sf / ac * Rd * 1ft / 12in	11583.8 Cubic Feet

Provided WQV	28646 Cubic Feet
Forebay Volume	3760 Cubic Feet
Main Pool Volume (VPP - Forebay Volume)	17082 Cubic Feet
New BMP Manual DAV Calculations (Values from Table 1 in C-3. Wet Pond)	
3	4
40.00%	1.51 1.24
50.00%	1.79 1.51
% Imp	40.61%
1.527152156	1.256539579
Interpolated Value	1.421952945

Surface Area Requirements:	
% Impervious	40.61%
Surface Area Ratio Required	1.421952945
Surface Area Provided	6150.36 SF

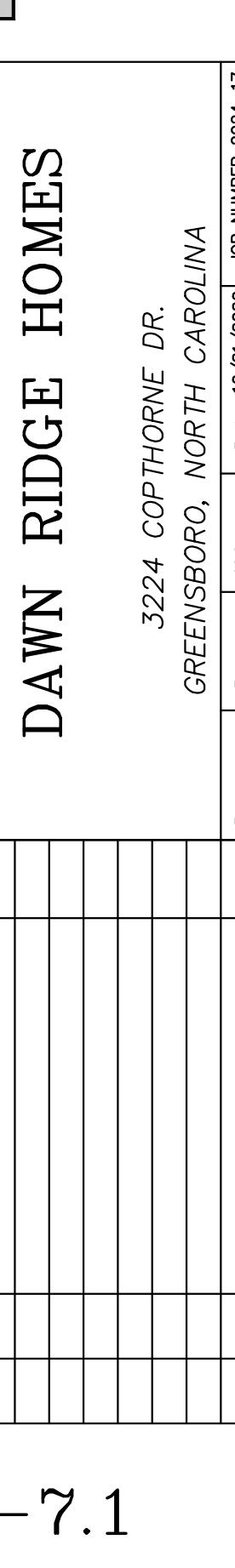
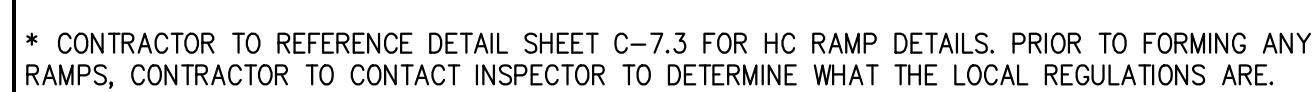
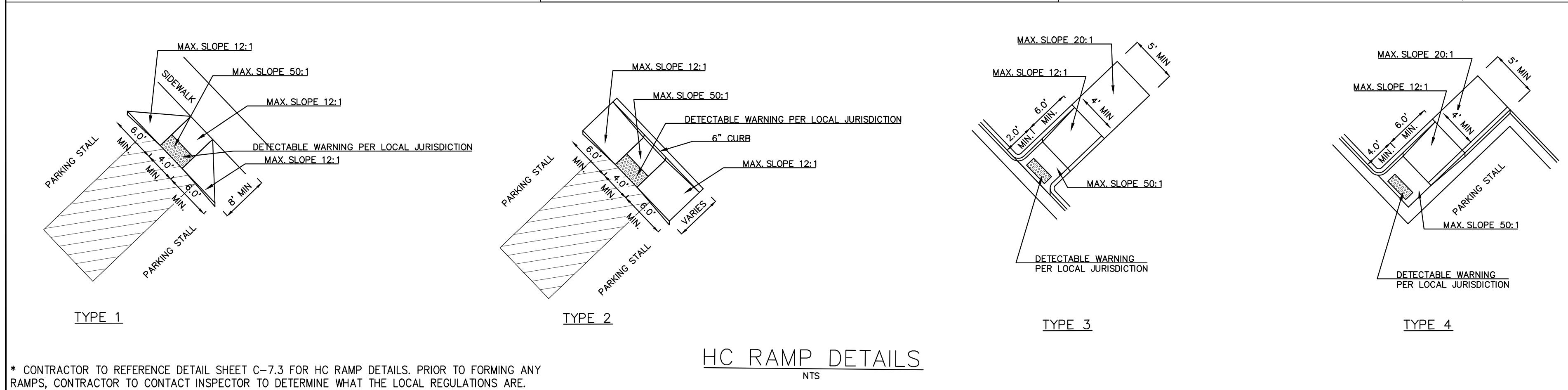
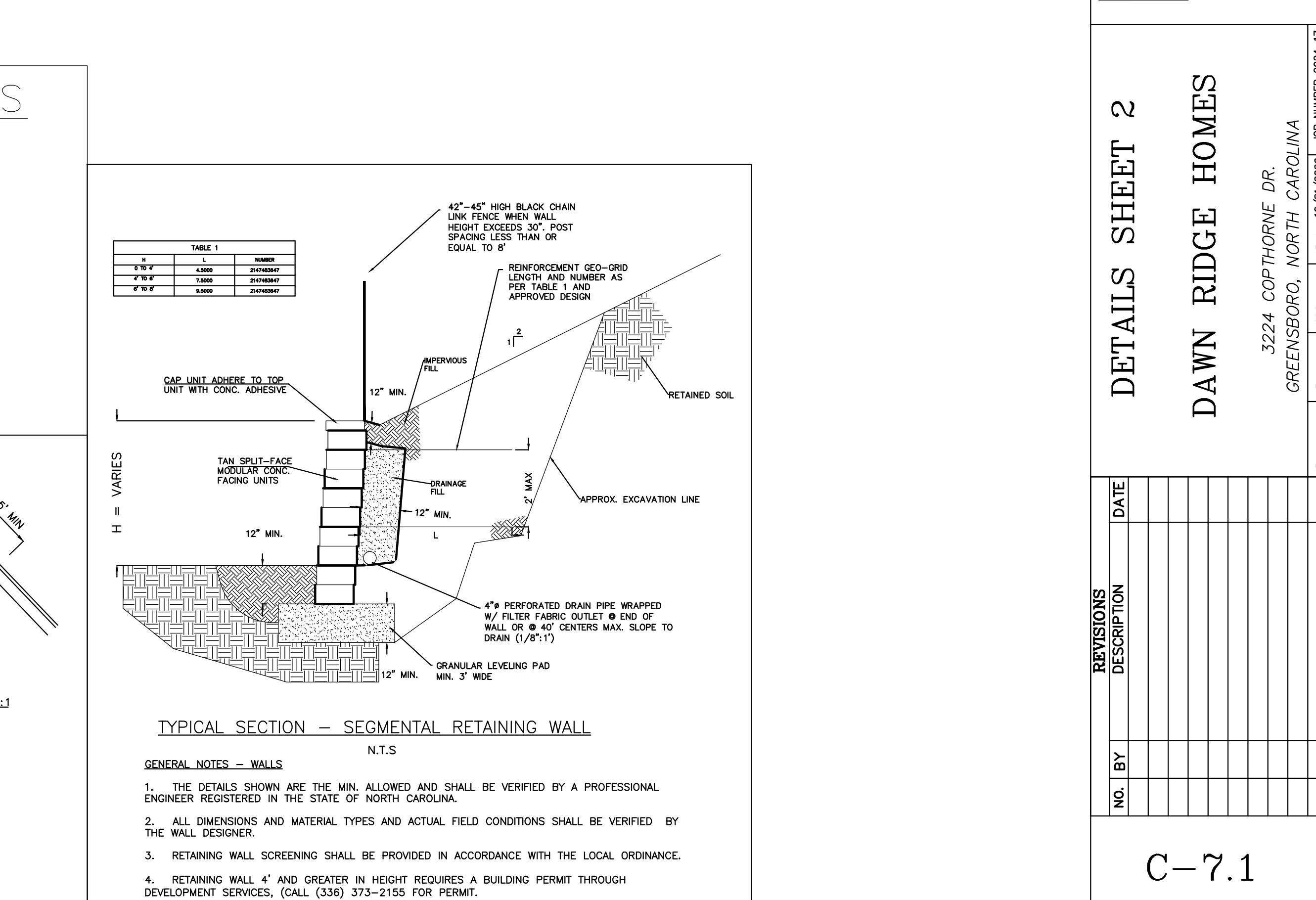
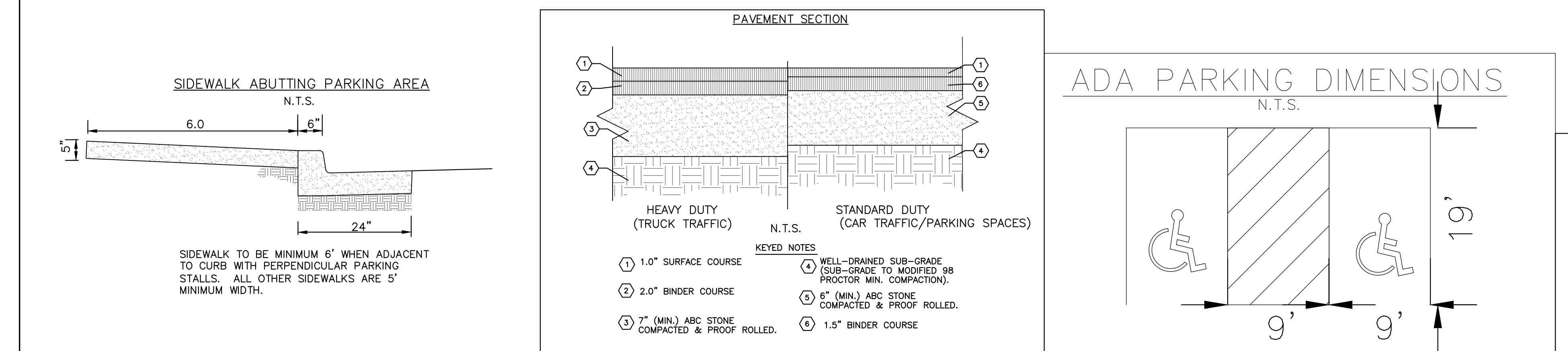
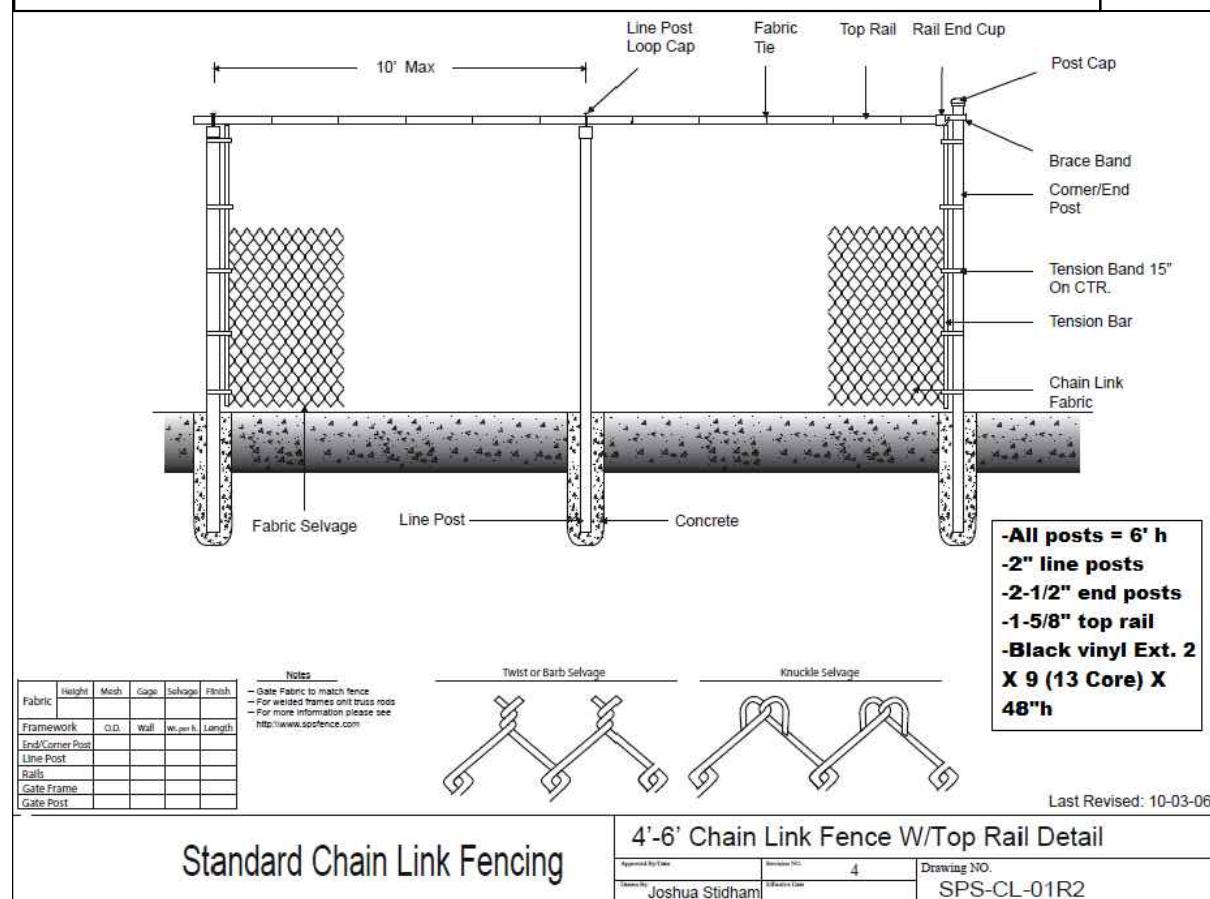
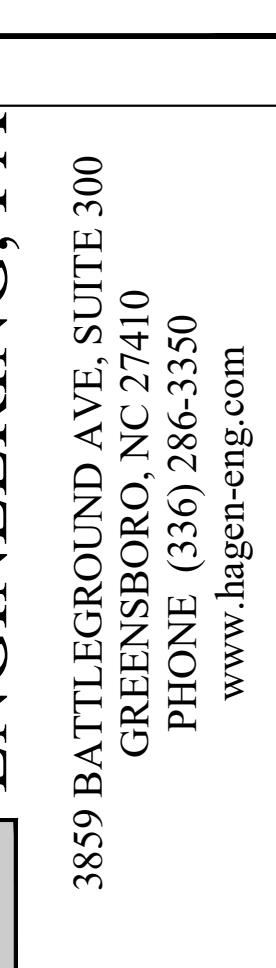
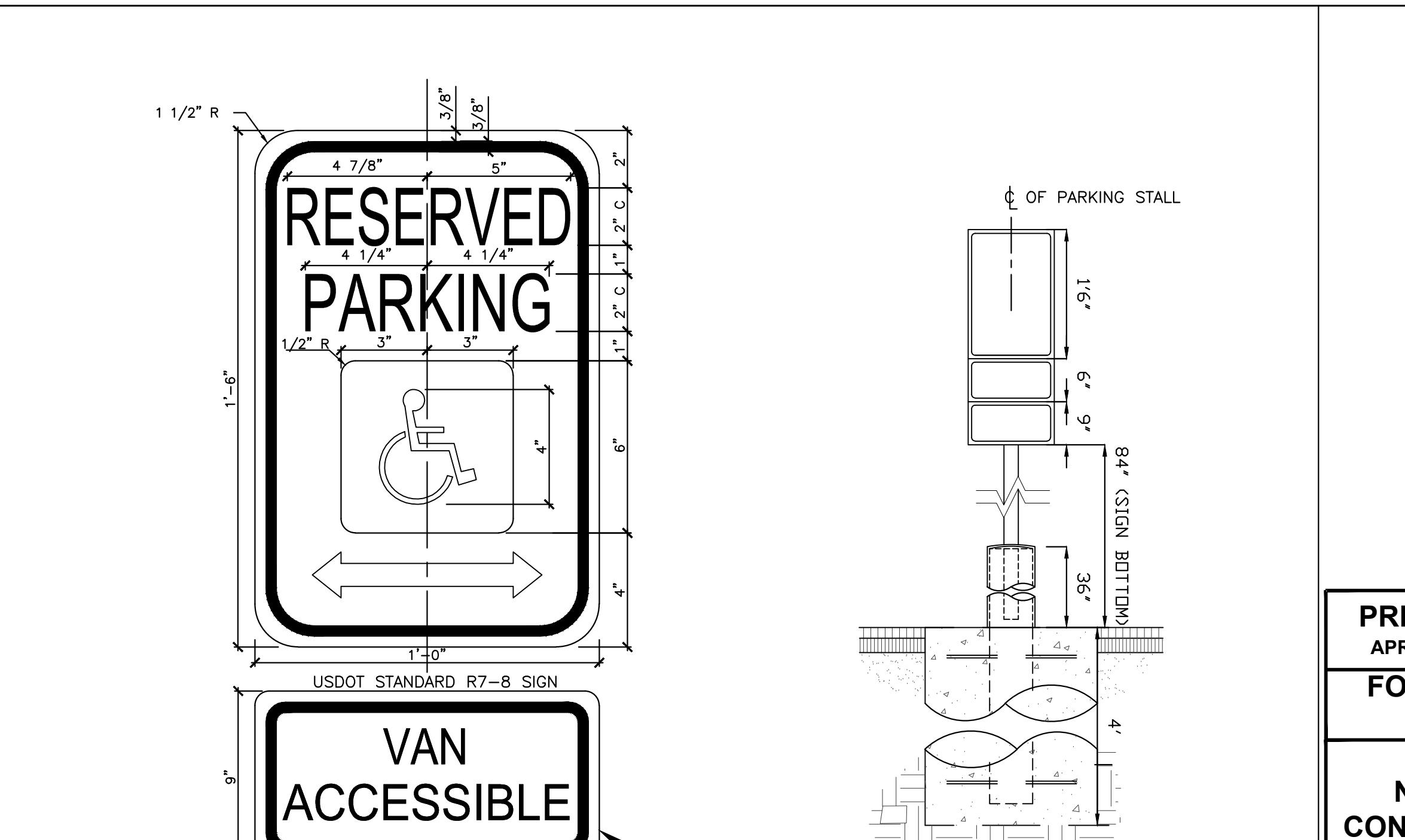
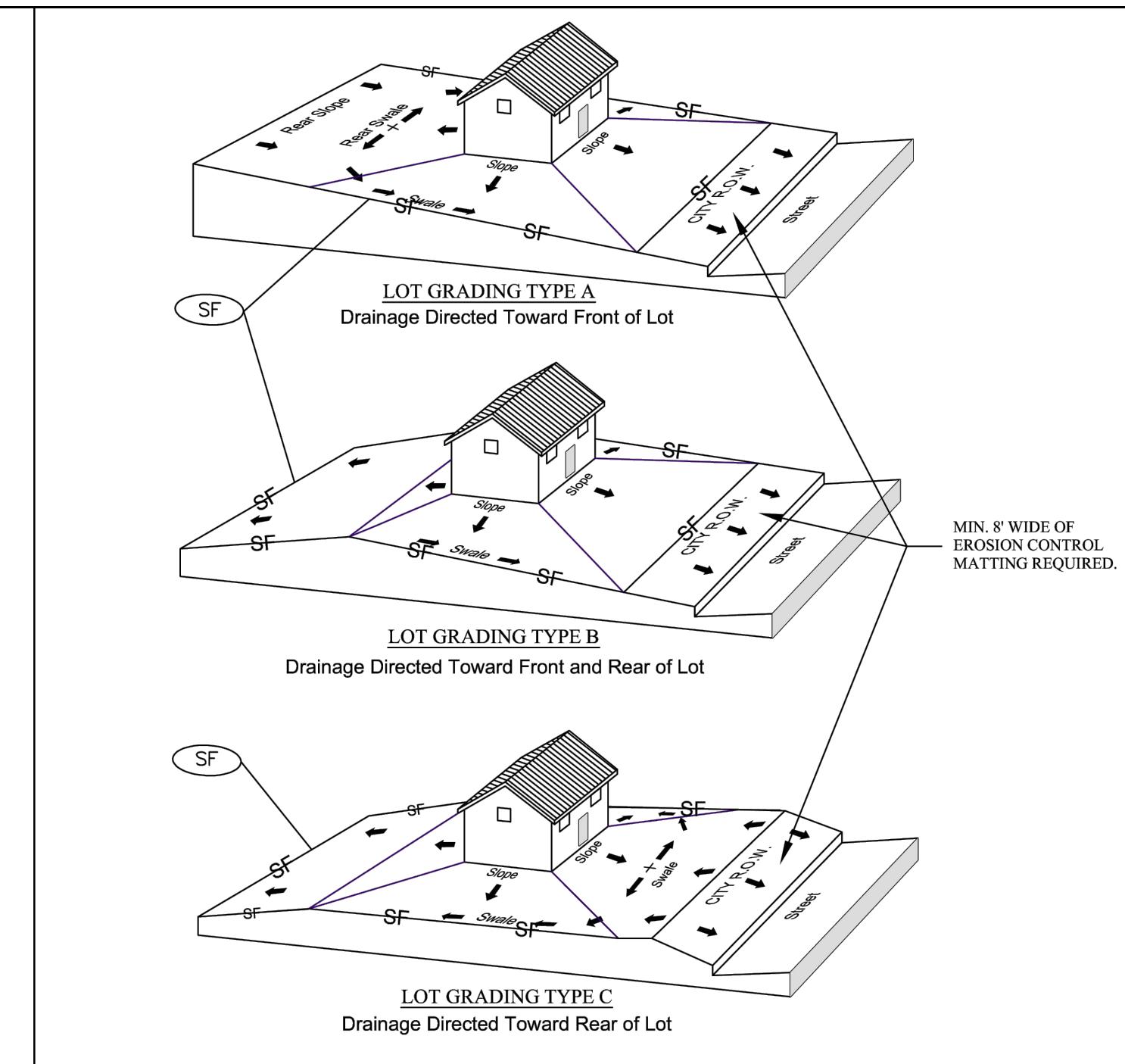
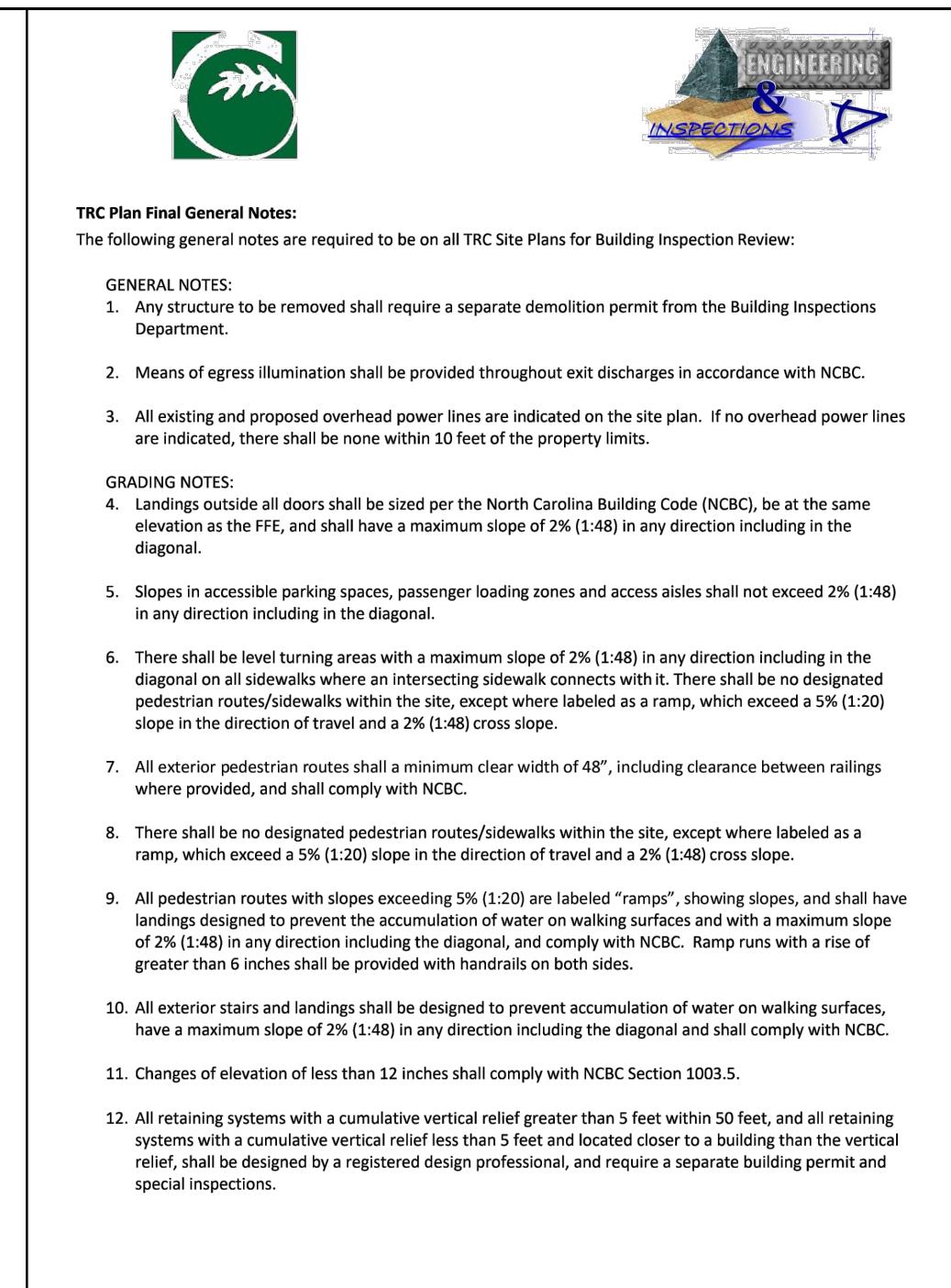
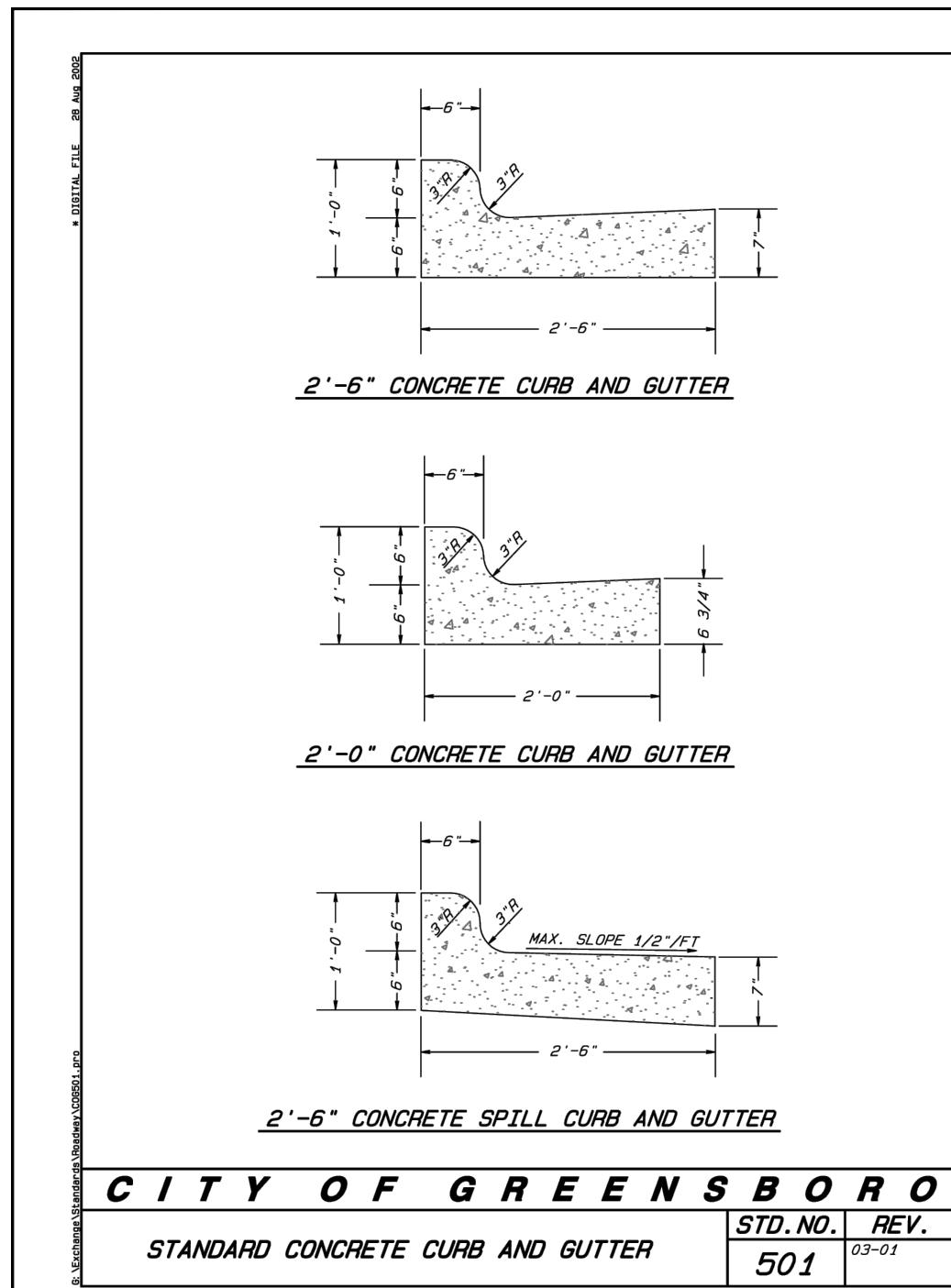
Skimmer Basin 1	
8.60 Disturbed Area (Acres)	
24.08 Peak Flow from 10-year Storm (cfs)	
15480 Required Volume ft ³	(Disturbed Area x 1800)
10475 Required Surface Area ft ²	(Q10 x 435)
72.4 Suggested Width ft	(SQRT(Surface Area))
144.7 Suggested Length ft	
35.0 Provided Width ft	
175.0 Provided Length ft	
6.0 Provided Depth ft	
57805 Actual Volume ft ³	Actual Volume > Required Volume
15665 Actual Surface Area ft ²	Actual SA > Required SA
22 Trial Weir Length ft	
1.25 Trial Depth of Flow ft	
92.2 Spillway Capacity cfs	(C*L*H ^{3/2}) Capacity > Q10
3 Skimmer Size (inches)	
0.25 Head on Skimmer (feet)	
2 Orifice Size (1/4 inch increments)	
3.35 Dewatering Time (days)	
Suggest about 3 days	
Drainage Area	8.60 Acres
C	0.4
I for 10 year storm Tc 5 min	7 in/hr
Q=CIA	24.08 cfs

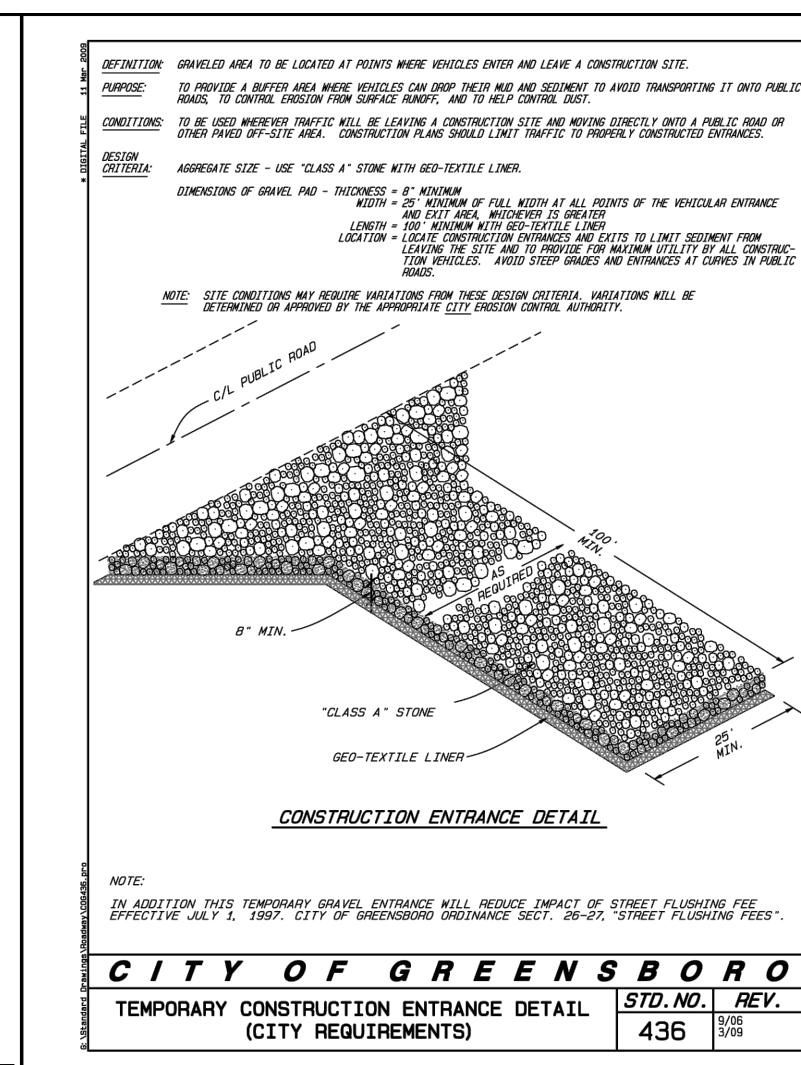
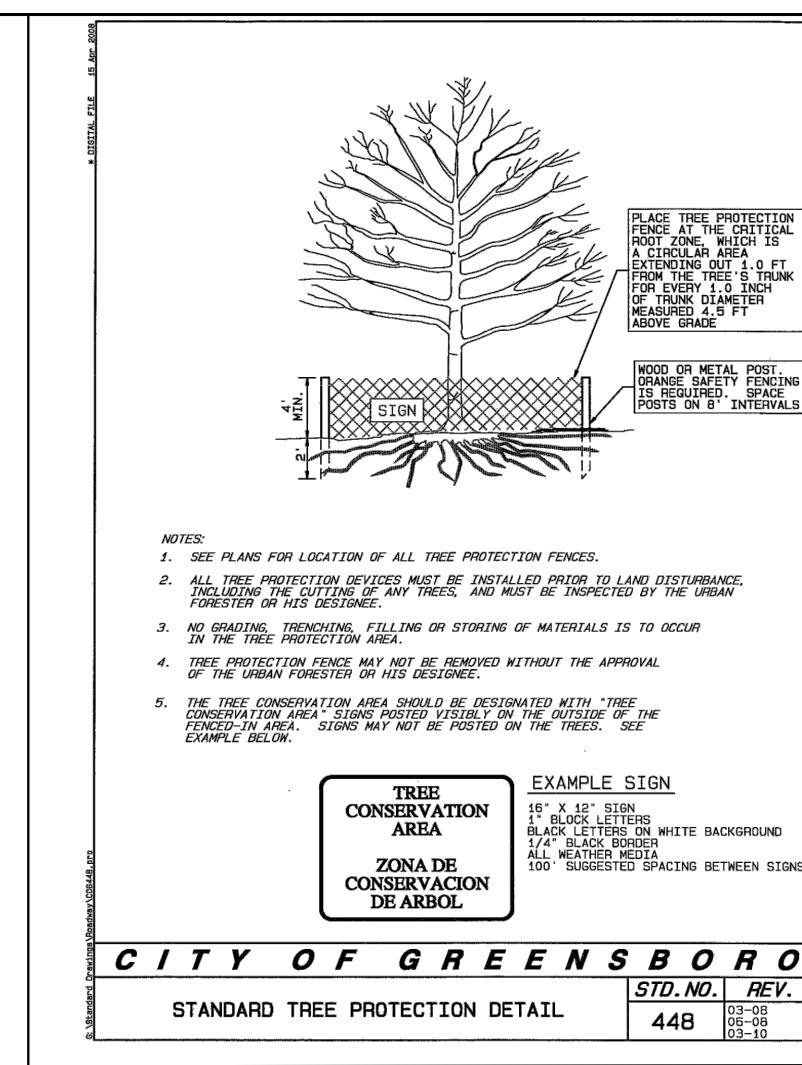
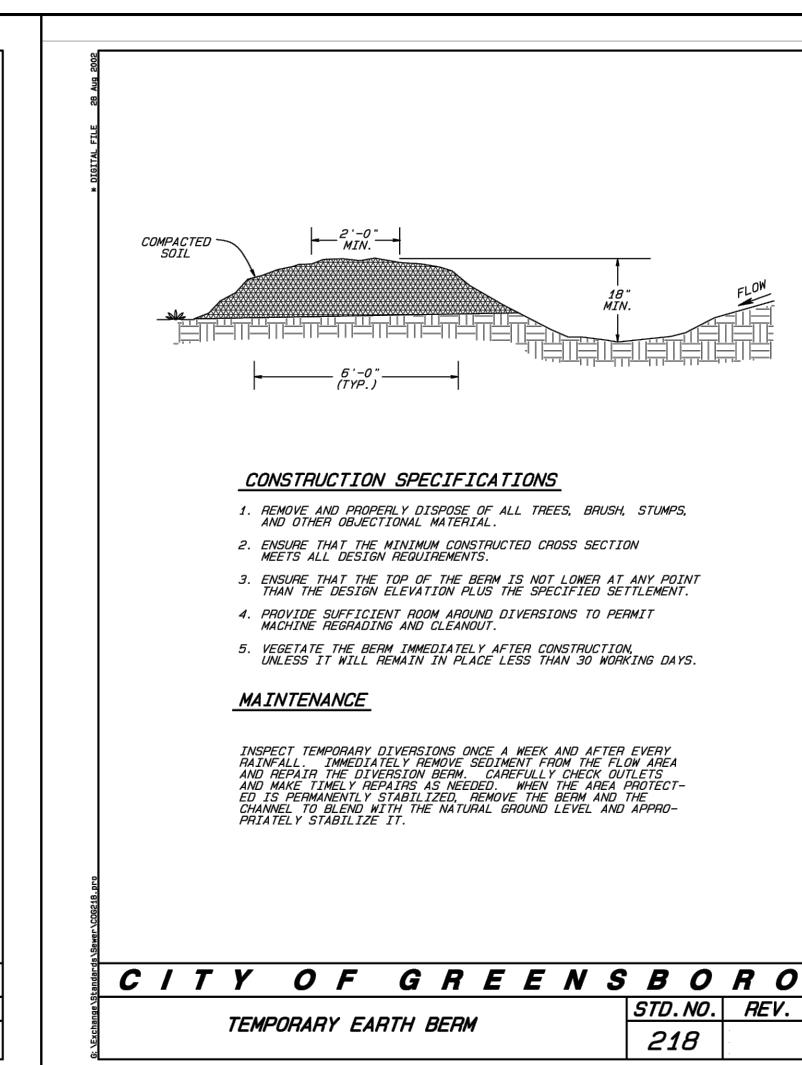
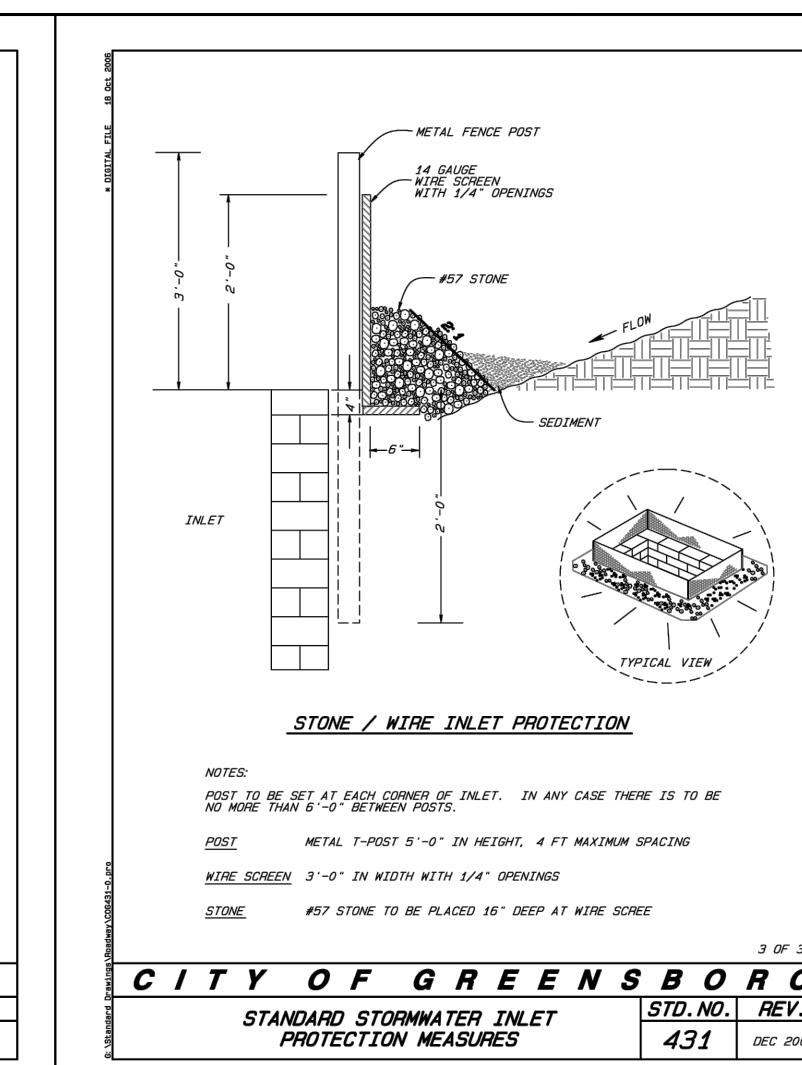
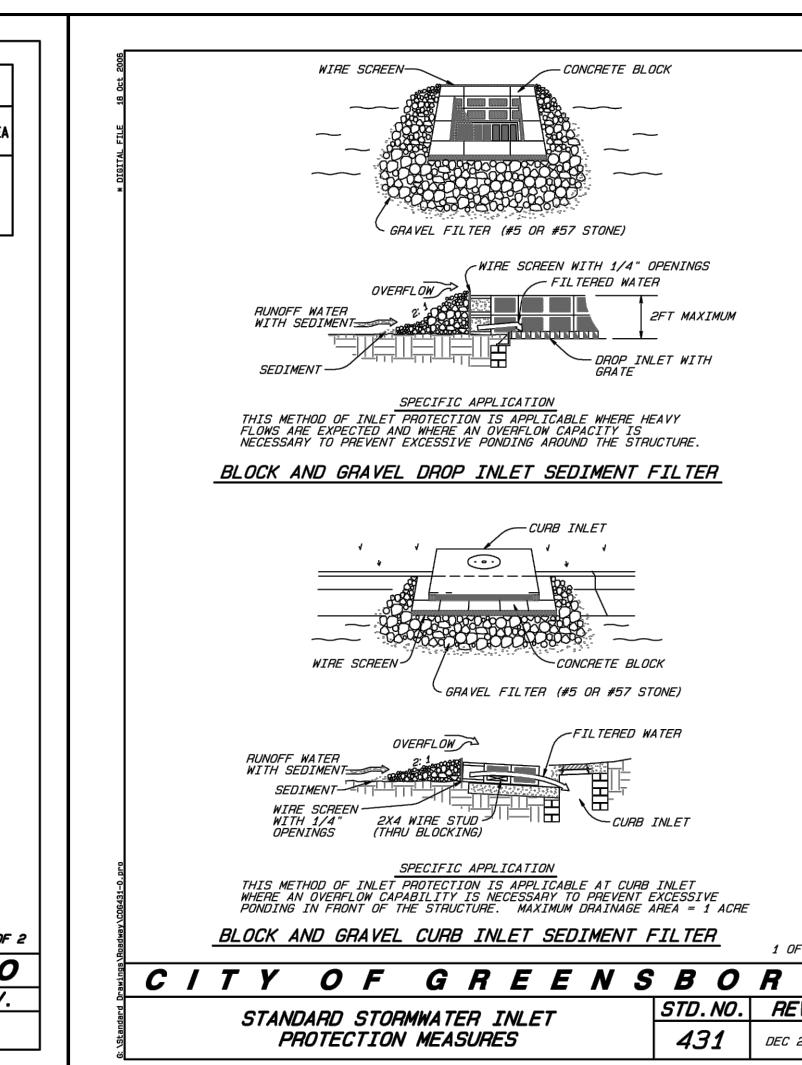
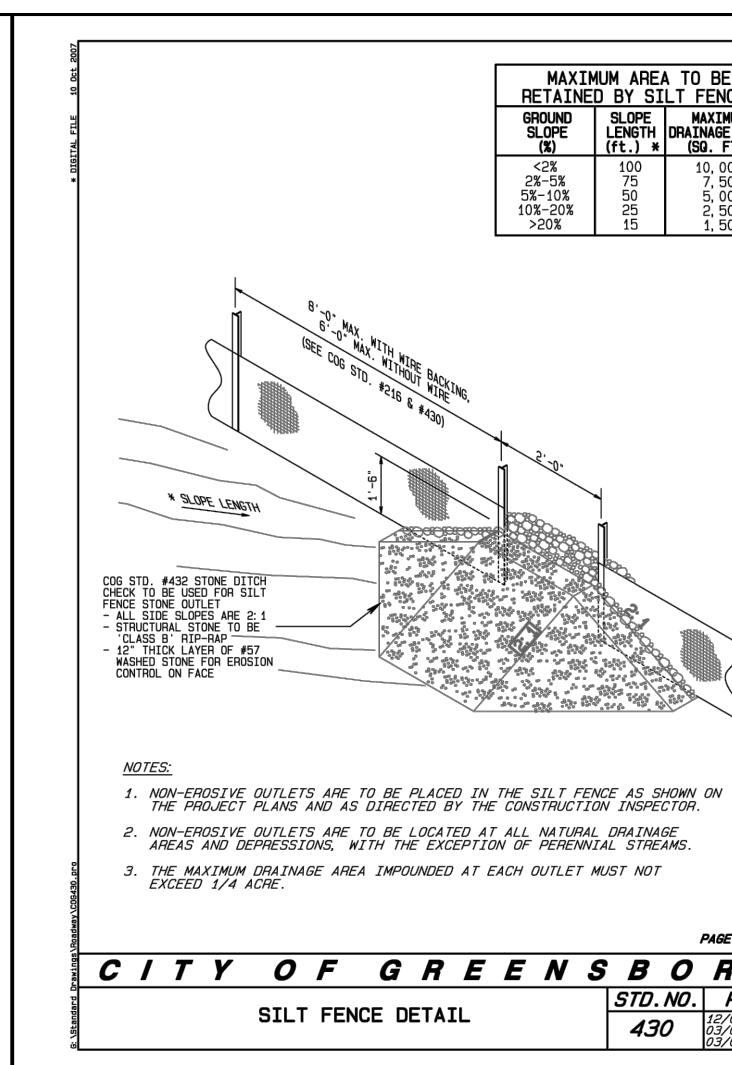
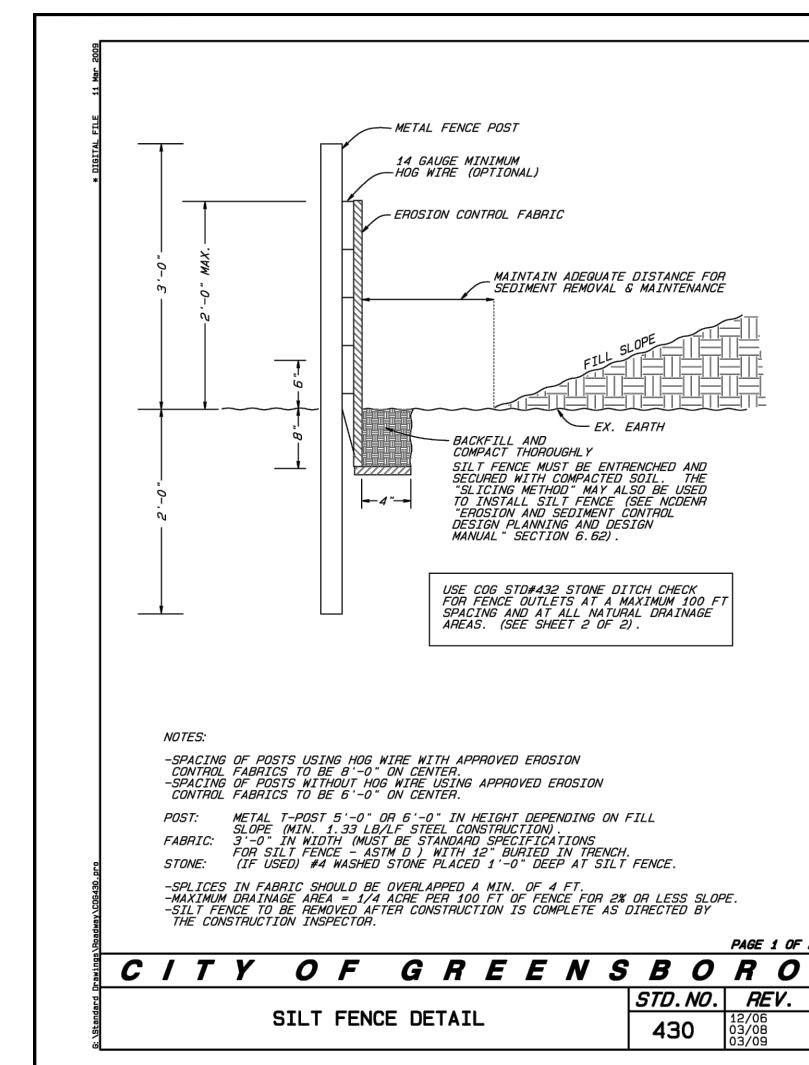
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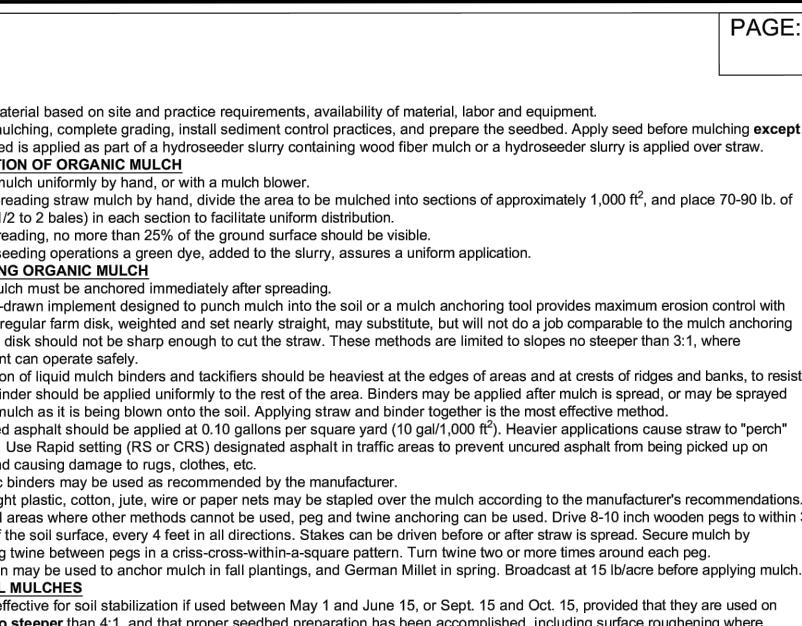
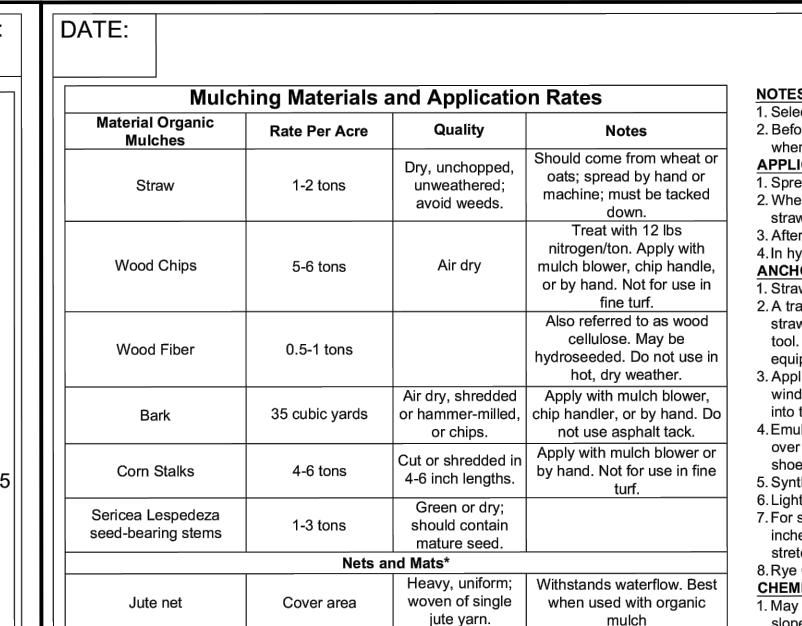
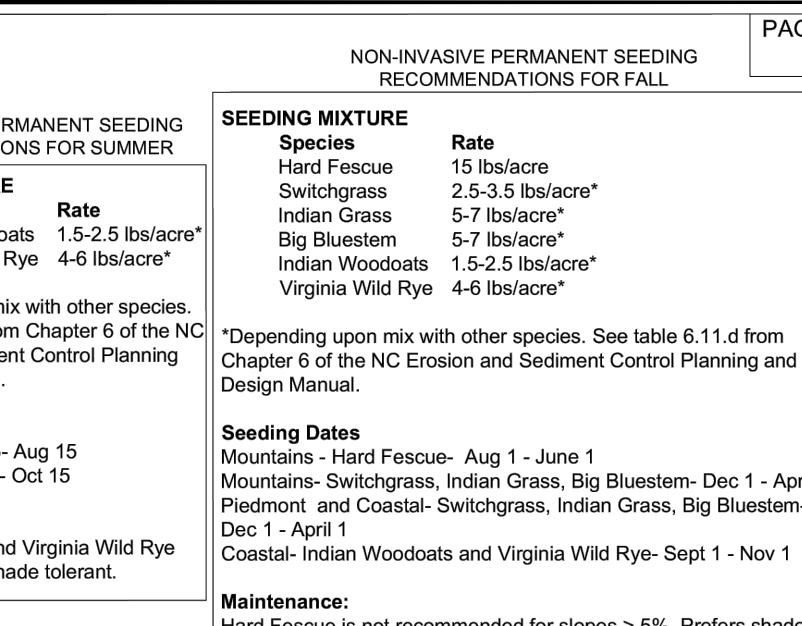
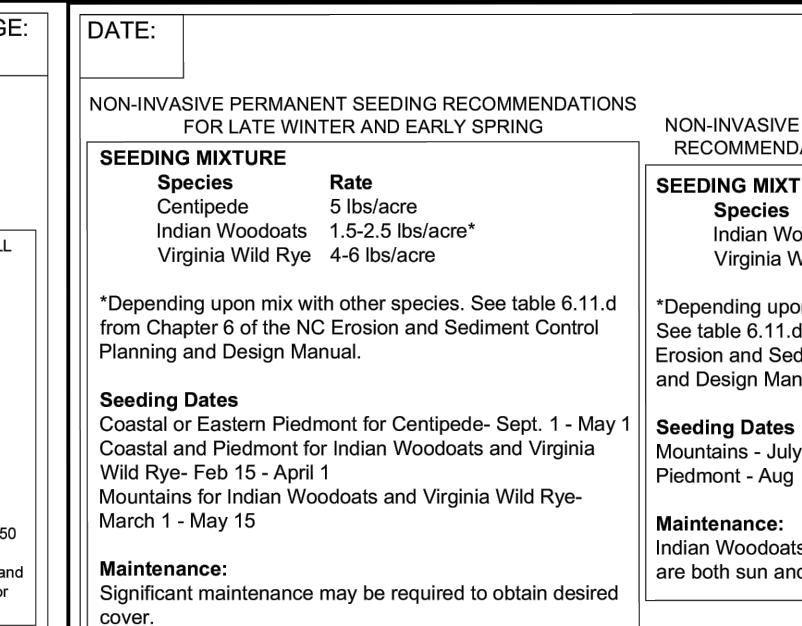
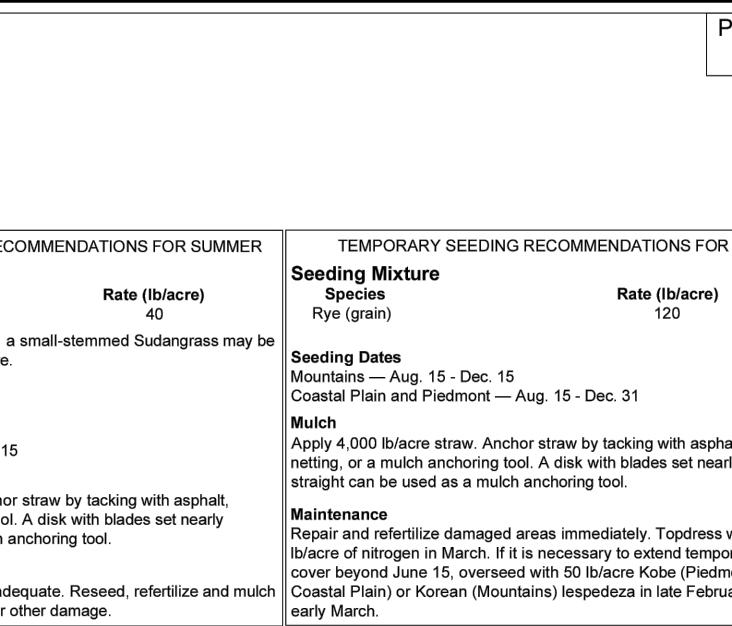
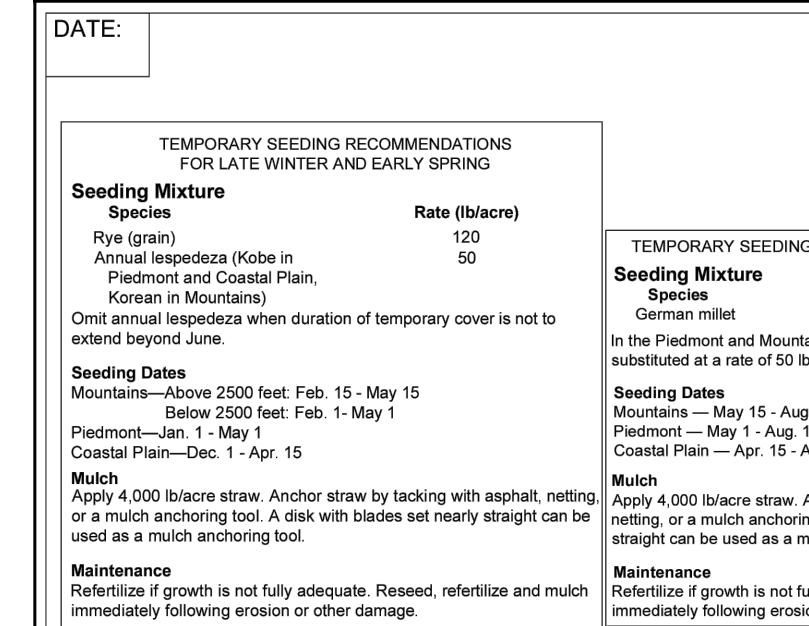
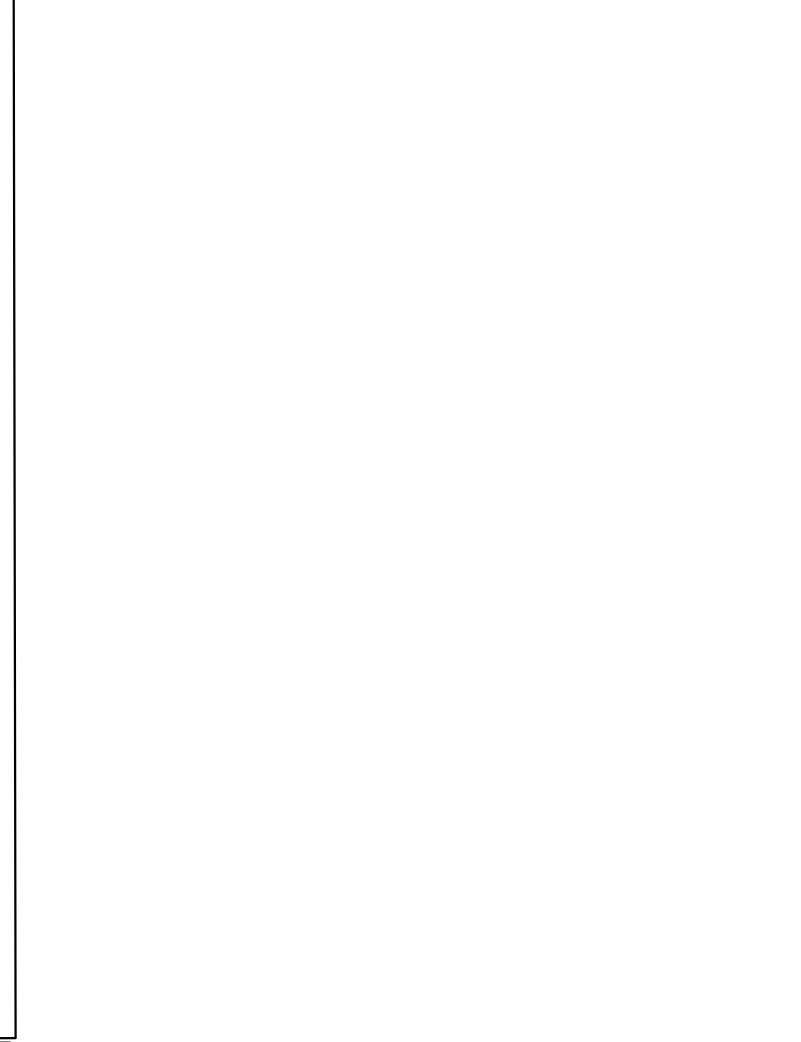
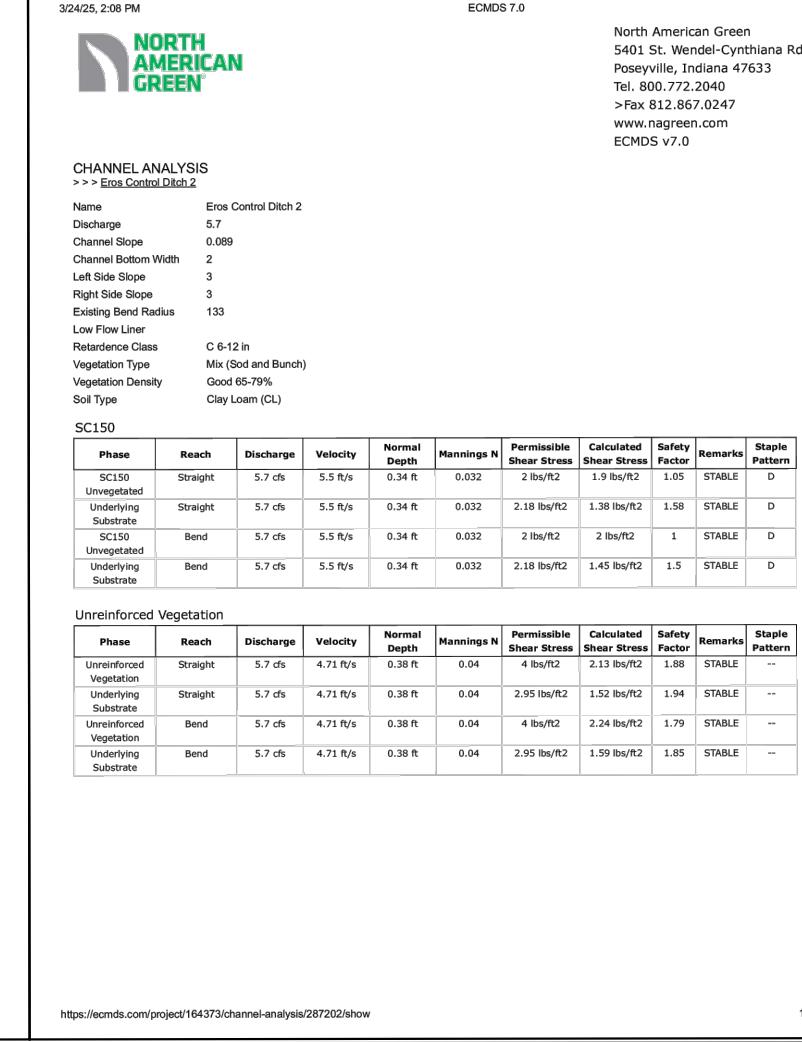
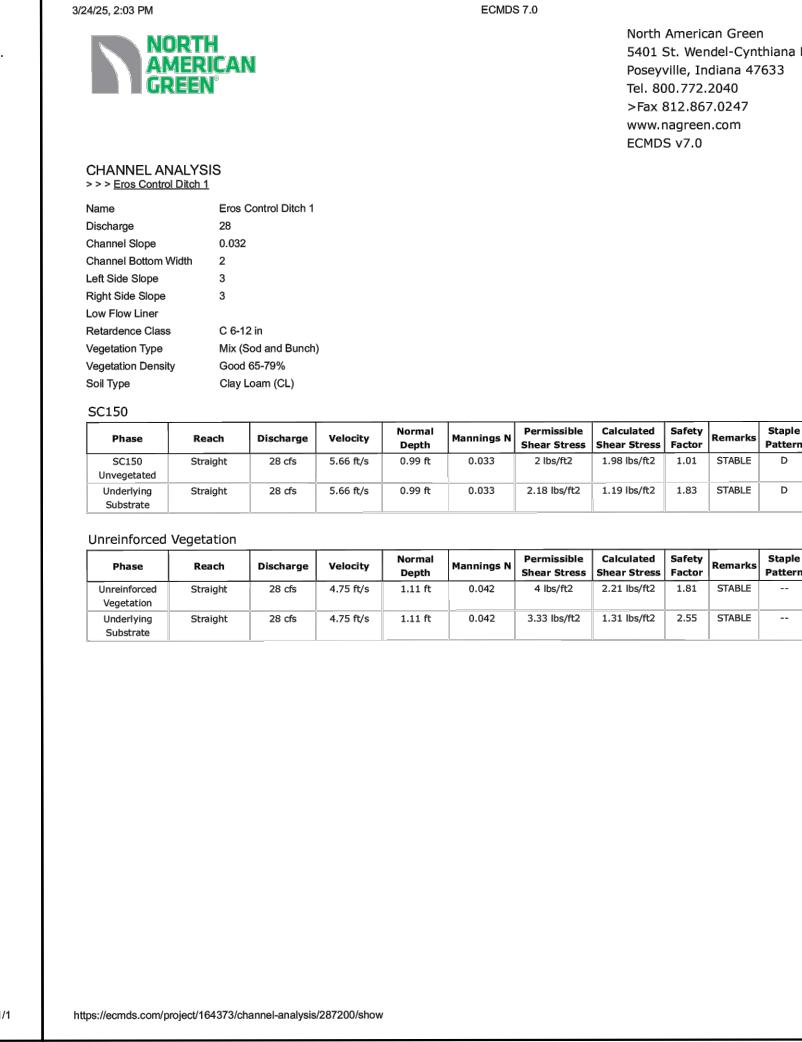
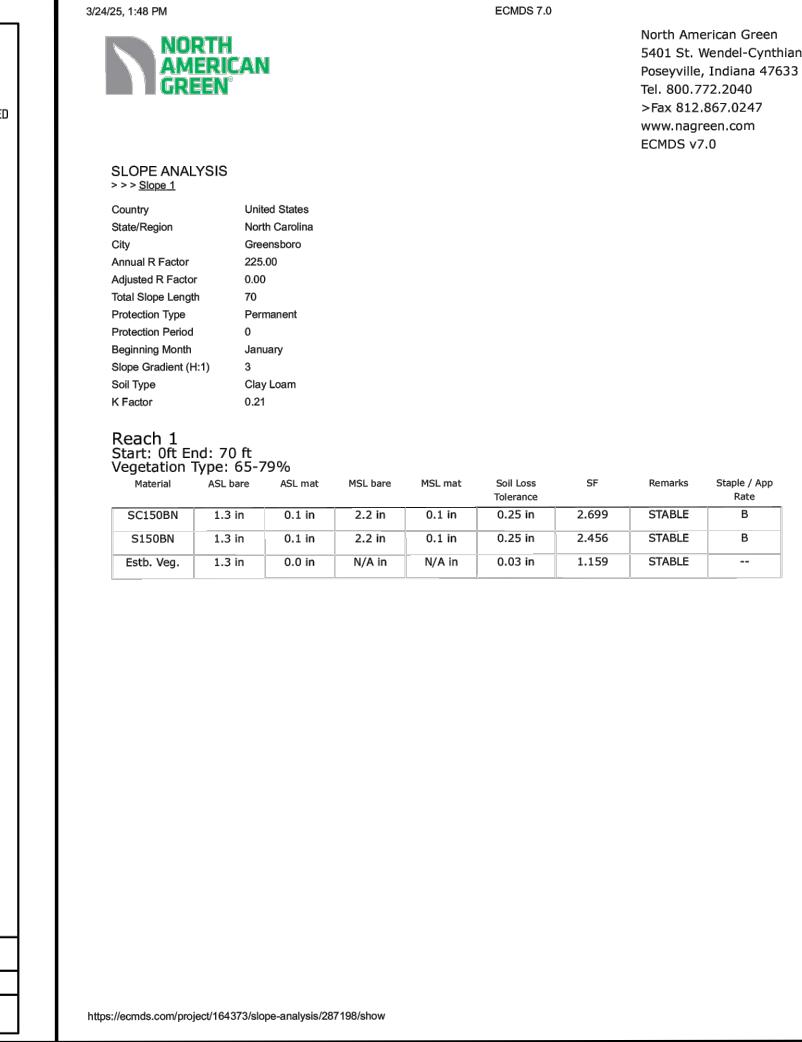
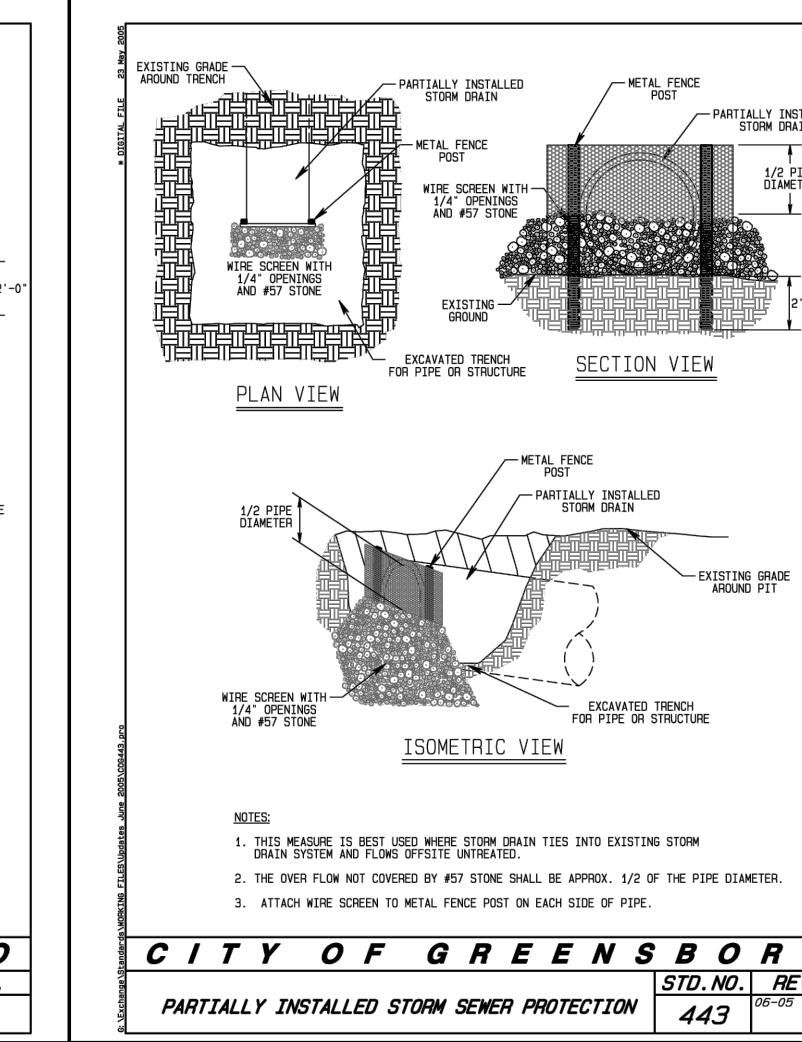
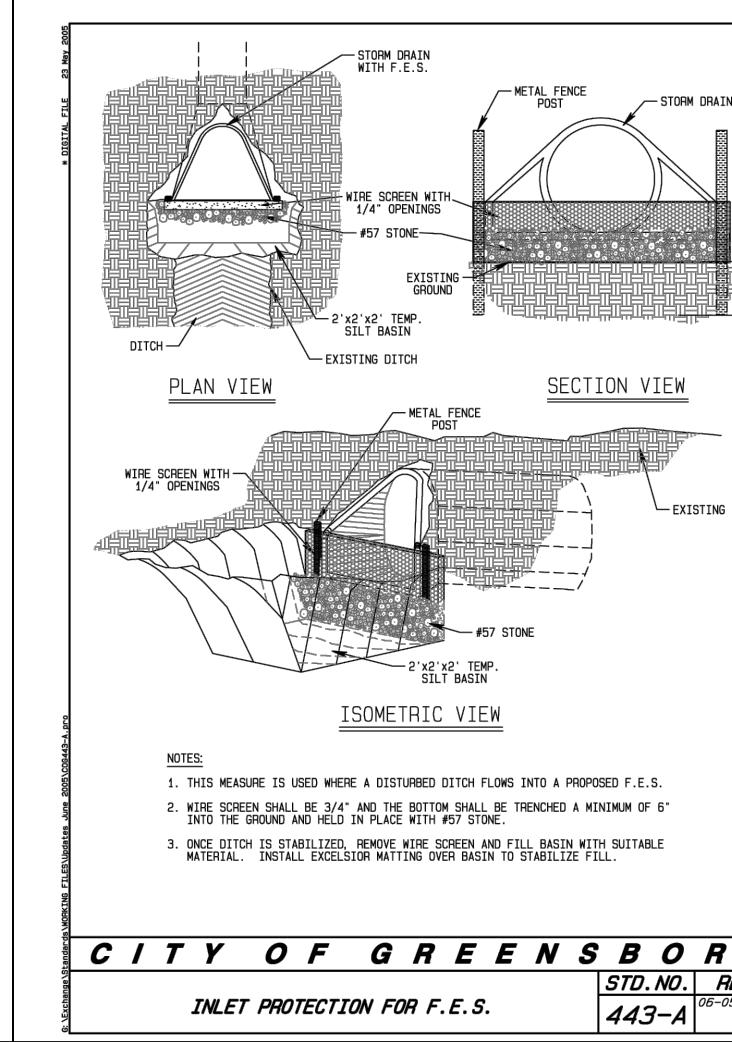
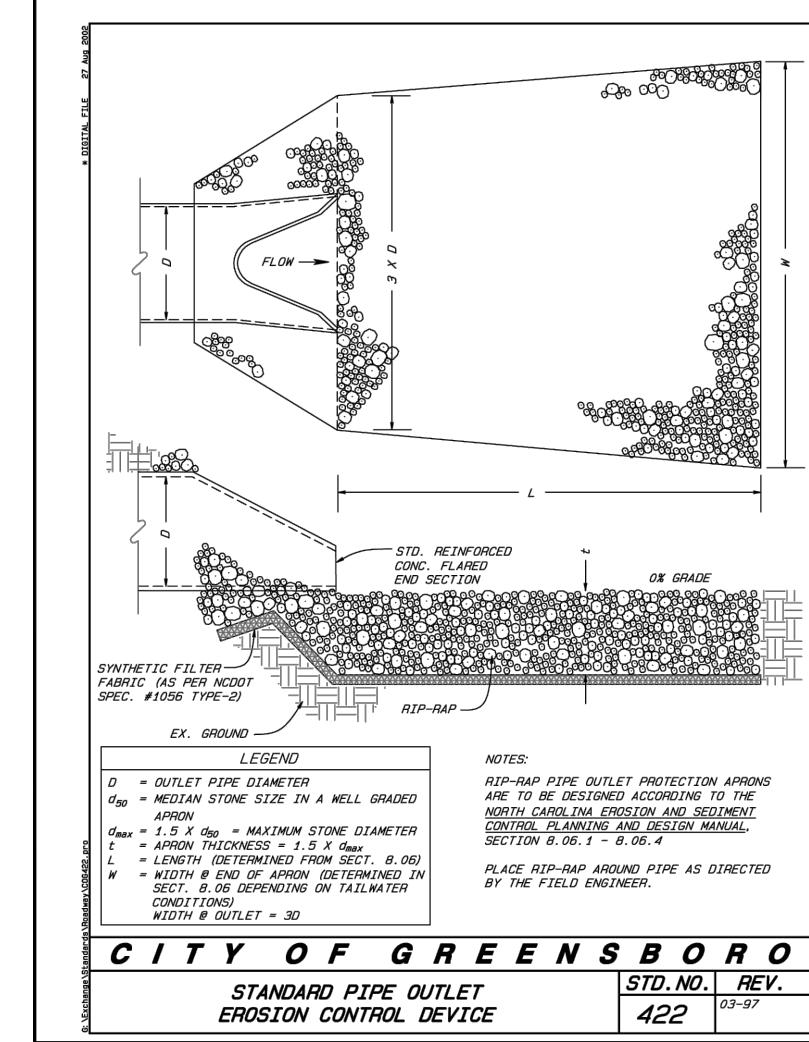
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Q=CdAv2gh				
Cd - Coefficient of discharge				
A- Area of orifice				
g - Gravity - 32.2 ft/s ²				
h - head from mid point of orifice				
Pipe Diameter	2.5 in			
Area	0.034071181 ft ²			
Cd	0.6			
g	32.2 ft/s ²			
Invert of orifice	817.5 ft			
Water Elevation	820.2 ft			
Avg. Head	1.24583333 ft			
Qavg	0.183109695 cfs			
WQV Volume	28646 CF			
Elevation	Head	Q (cfs)	Incremental Volume (cf)	Time (hrs)
820.2	1.229122421			
820.1	2.391666667	0.253706557		
820	2.291666667	0.248345955	1146 1.281635086	
819.9	2.191666667	0.242867061	1146 1.310547785	
819.8	2.091666667	0.237261681	1146 1.341509876	
819.7	1.991666667	0.231520629	1146 1.374775502	
819.6	1.891666667	0.225633548	1146 1.410645336	
819.5	1.791666667	0.219588693	1146 1.44947759	
819.4	1.691666667	0.213372655	1146 1.491704213	
819.3	1.591666667	0.206970013	1146 1.537850264	
819.2	1.491666667	0.200362877	1146 1.588562183	
819.1	1.391666667	0.193530304	1146 1.644646252	
819	1.291666667	0.186447512	1146 1.701723285	
818.9	1.191666667	0.179084815	1146 1.777308084	
818.8	1.091666667	0.171406146	1146 1.856928096	
818.7	0.991666667	0.163366959	1146 1.948306388	
818.6	0.891666667	0.154911134	1146 2.054654702	
818.5	0.791666667	0.145966282	1146 2.180564475	
818.4	0.691666667	0.136436255	1146 2.332876181	
818.3	0.591666667	0.126188541	1146 2.522372999	
818.2	0.491666667	0.115031491	1146 2.766971776	
818.1	0.391666667	0.10266908	1146 3.100143565	
818	0.291666667	0.088598173	1146 3.592499472	
817.9	0.091666667	0.071821531	1146 4.431663913	
817.8	0.091666667</td			

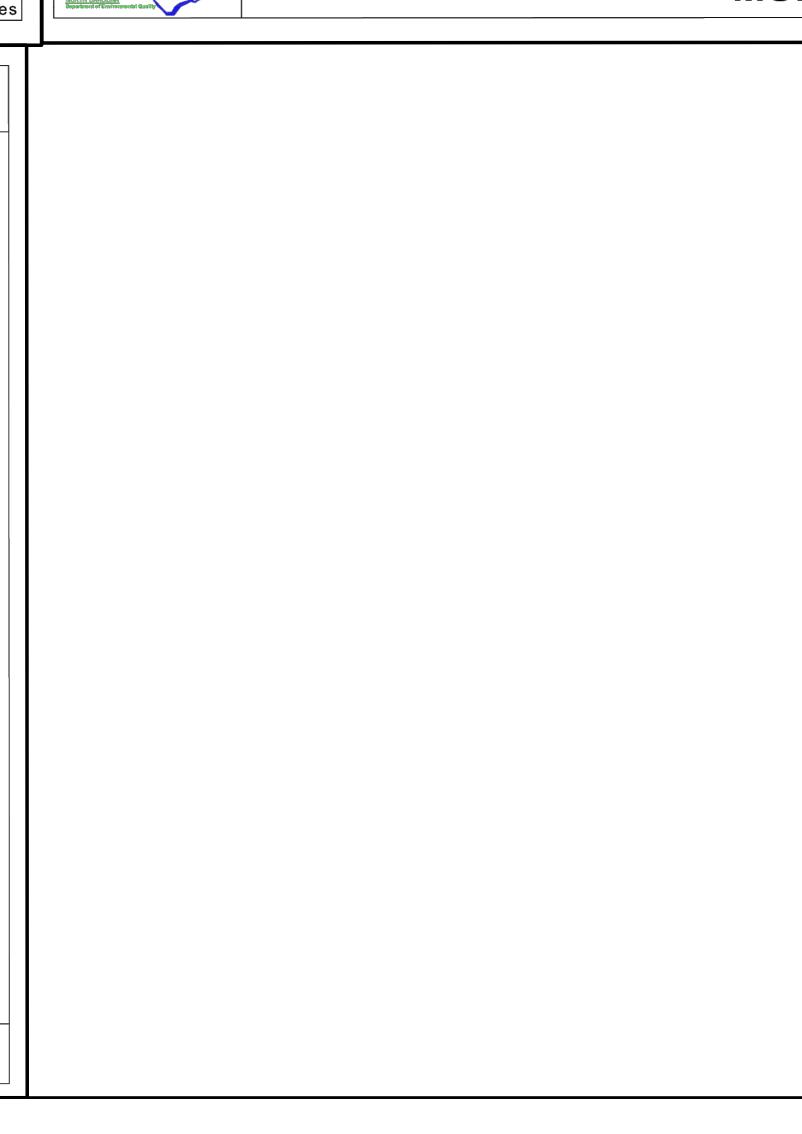
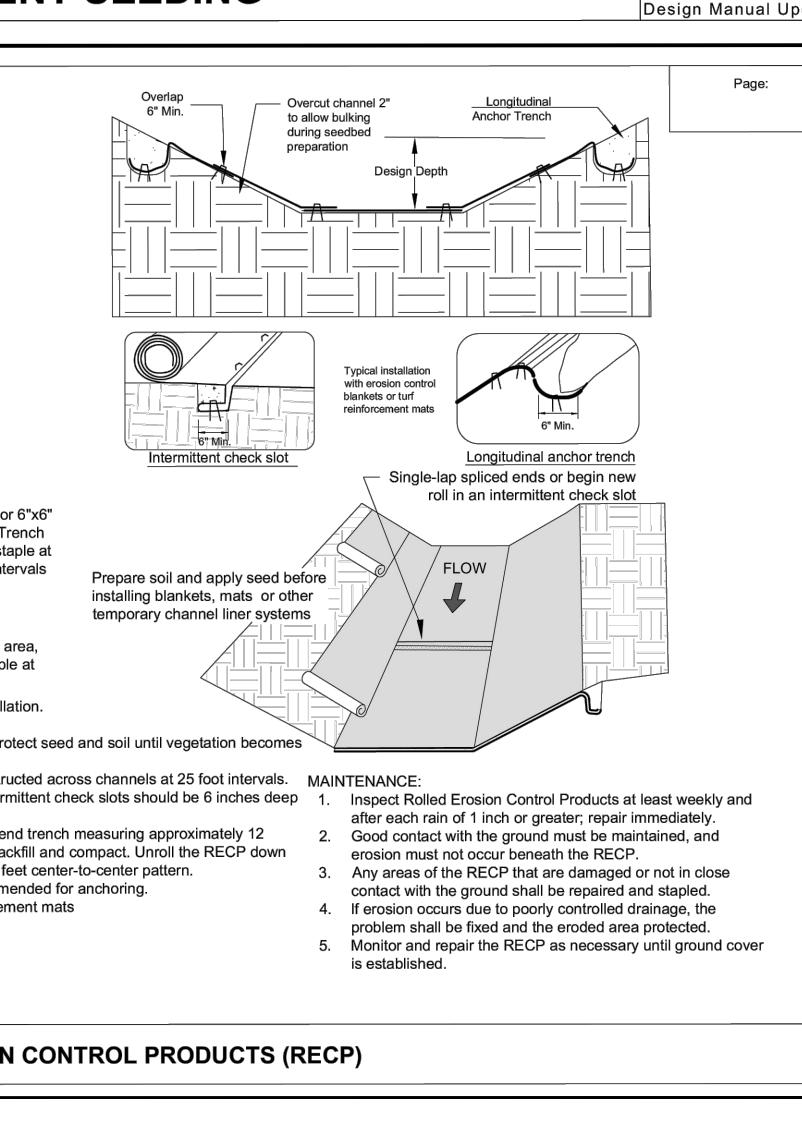
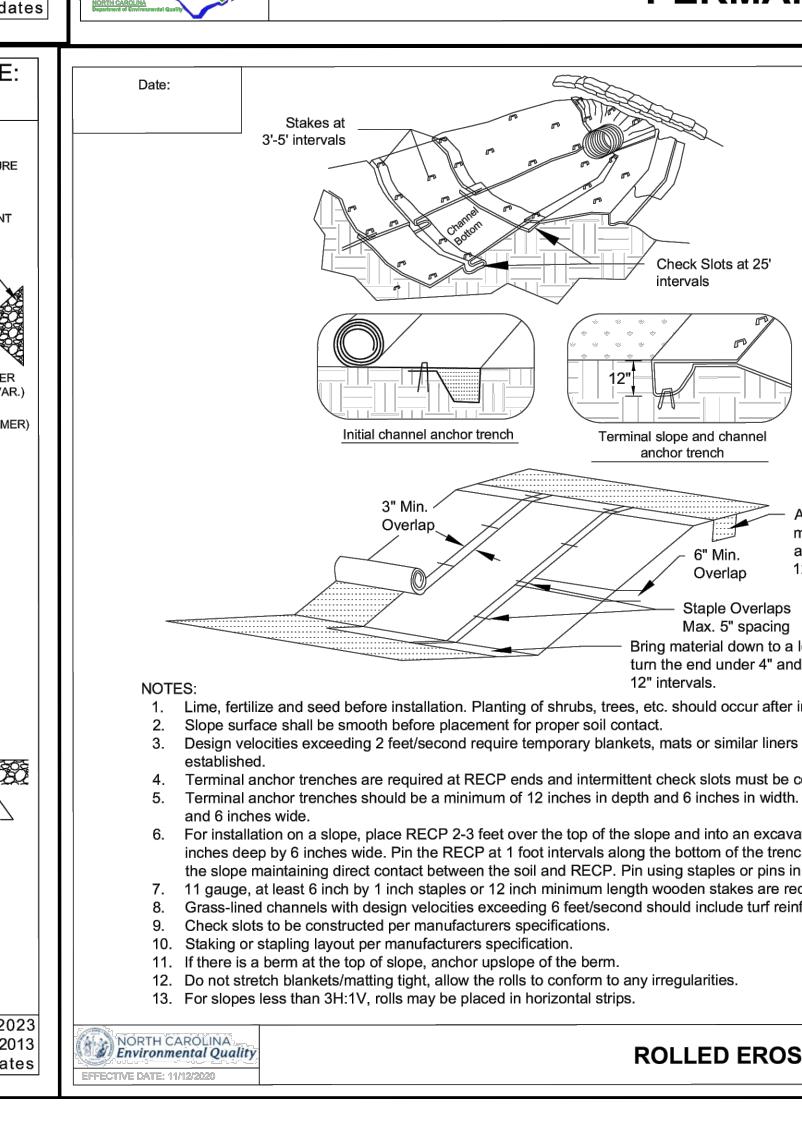
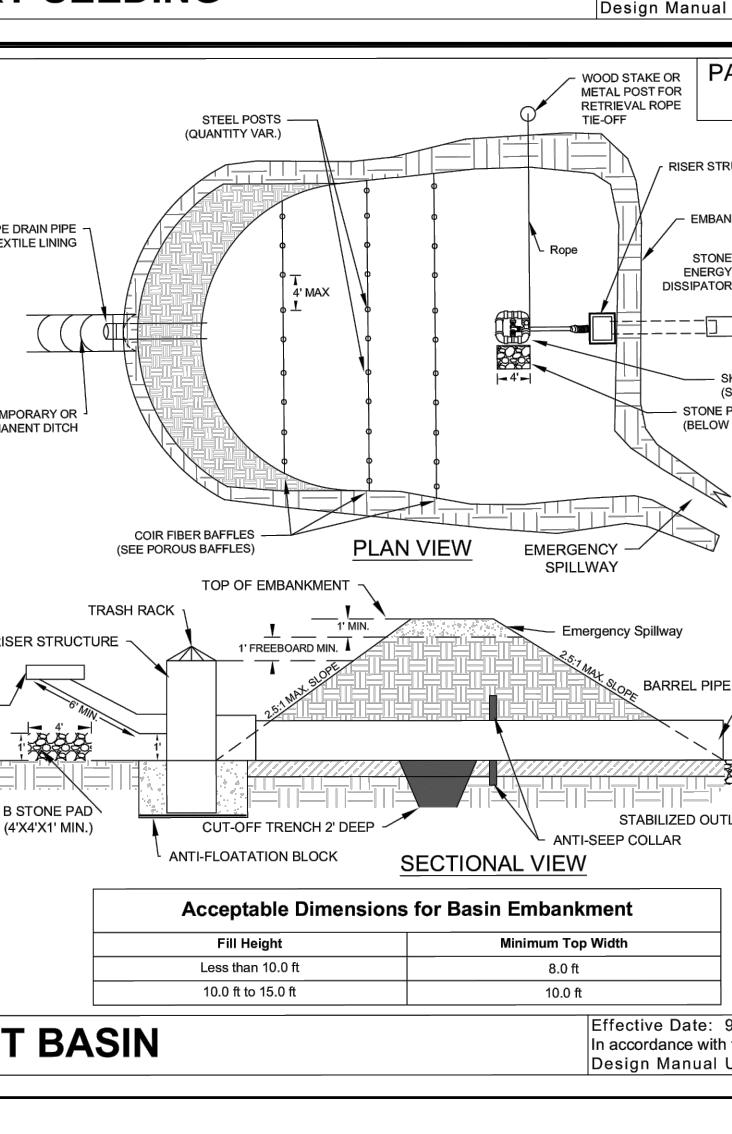
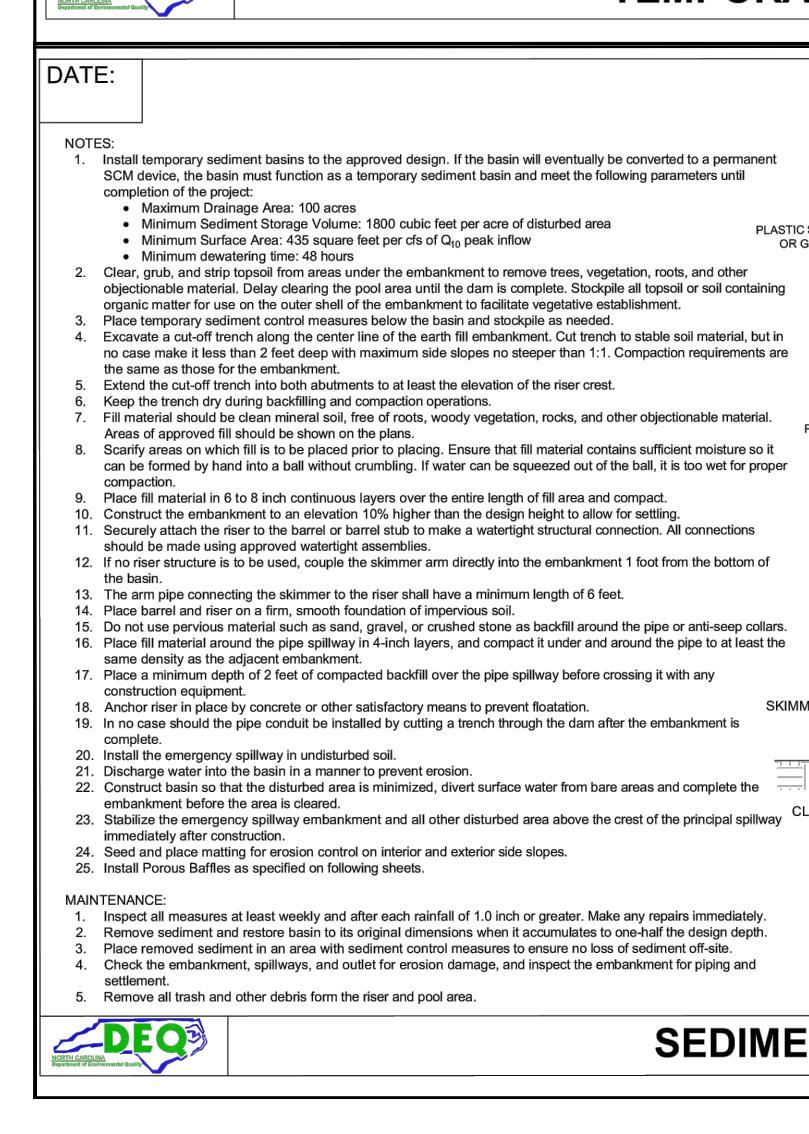
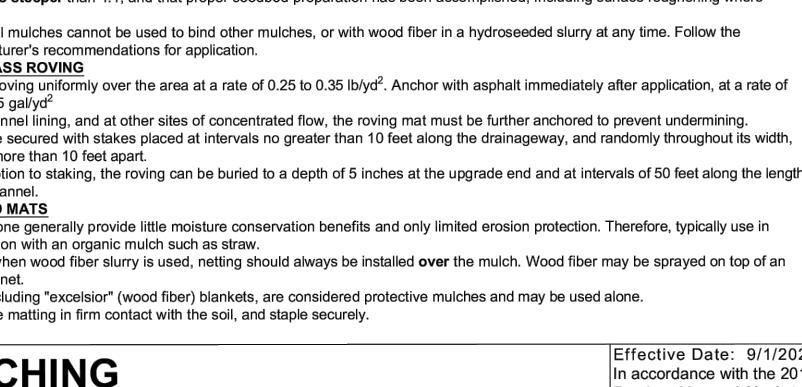
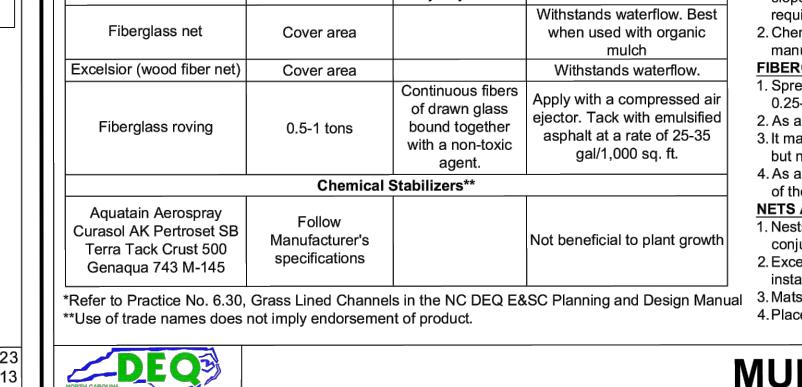
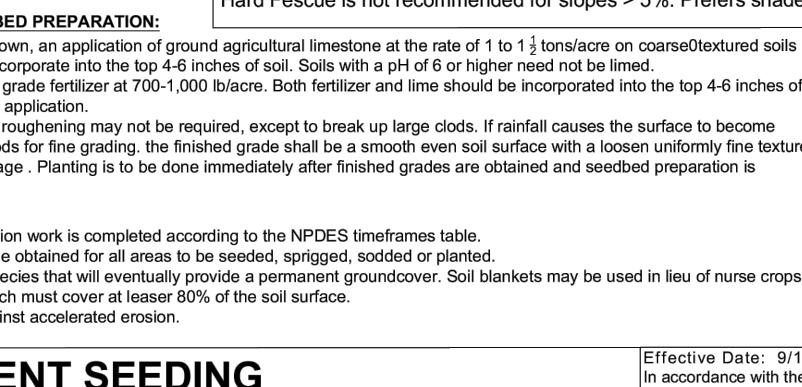
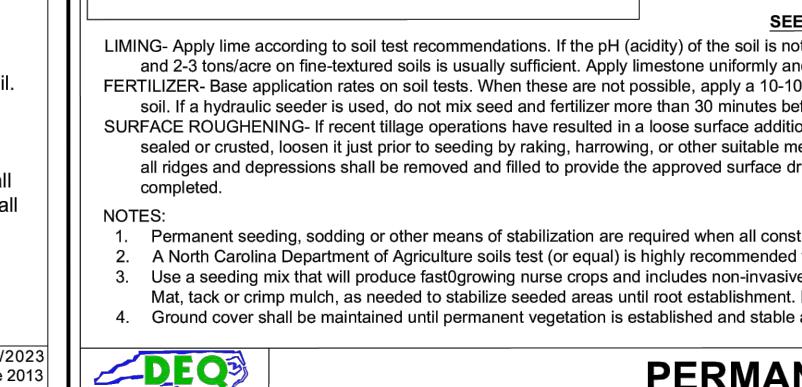
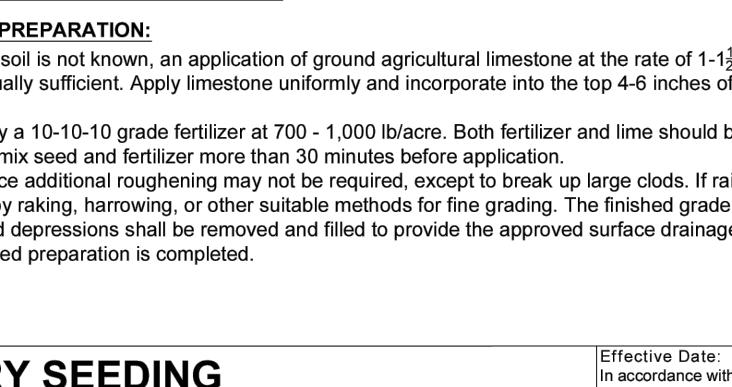
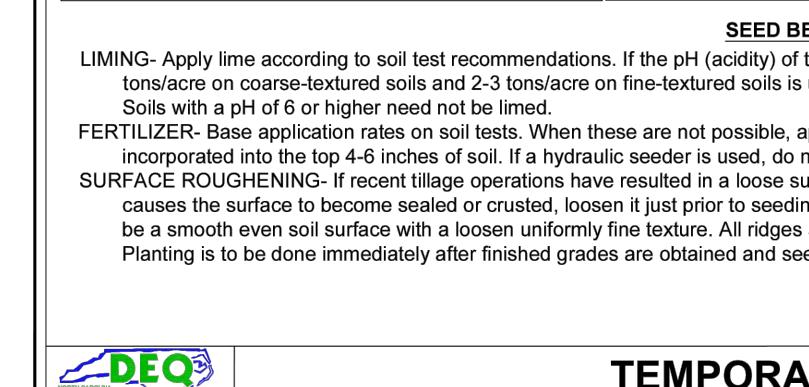




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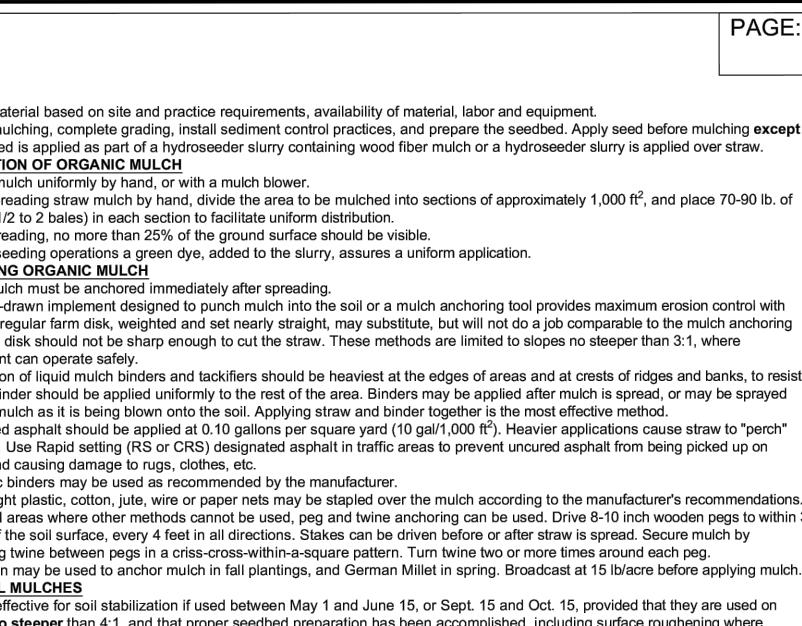
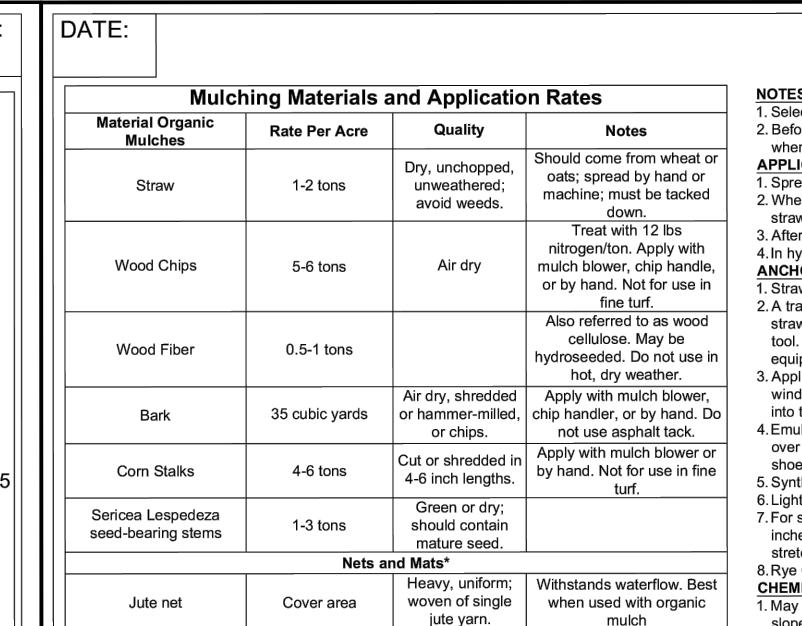
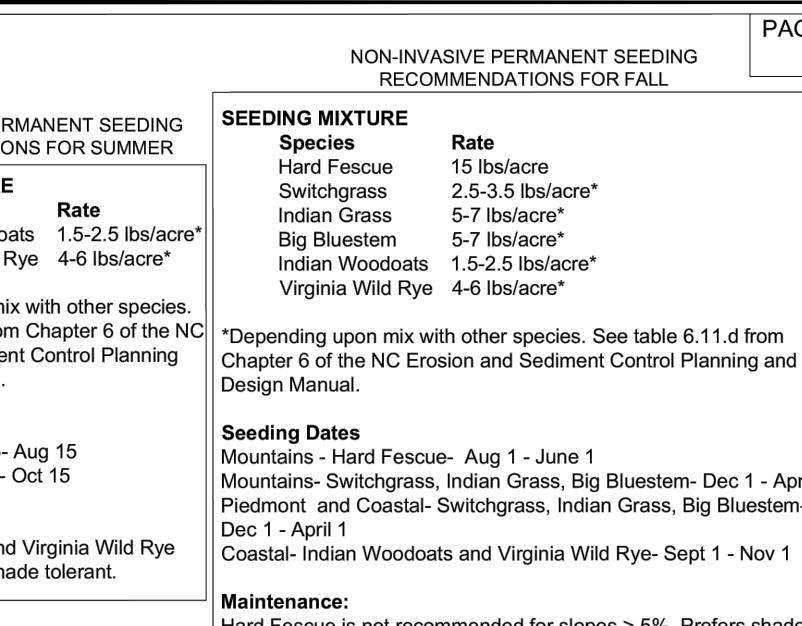
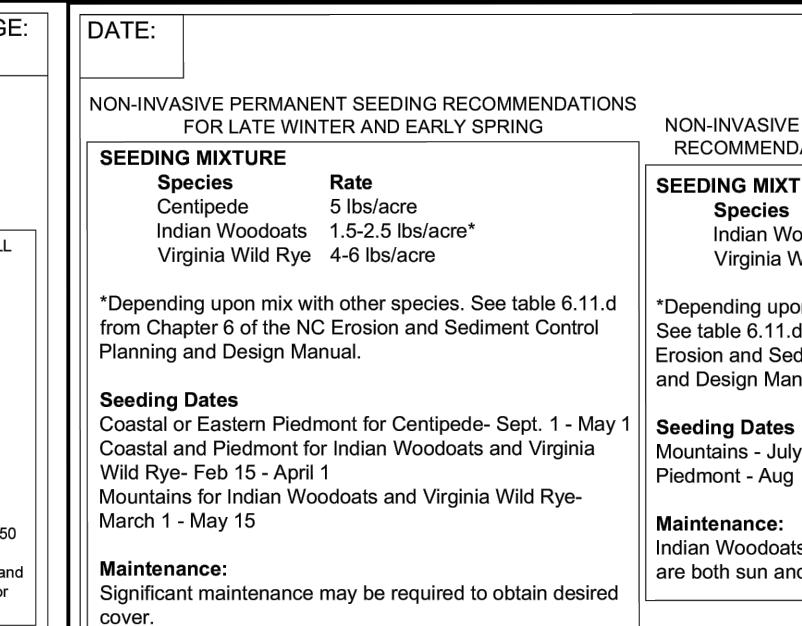
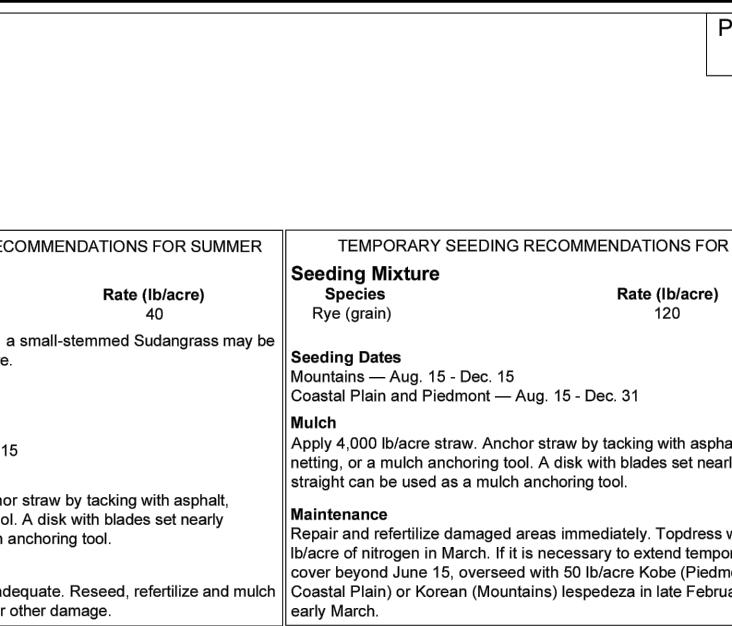
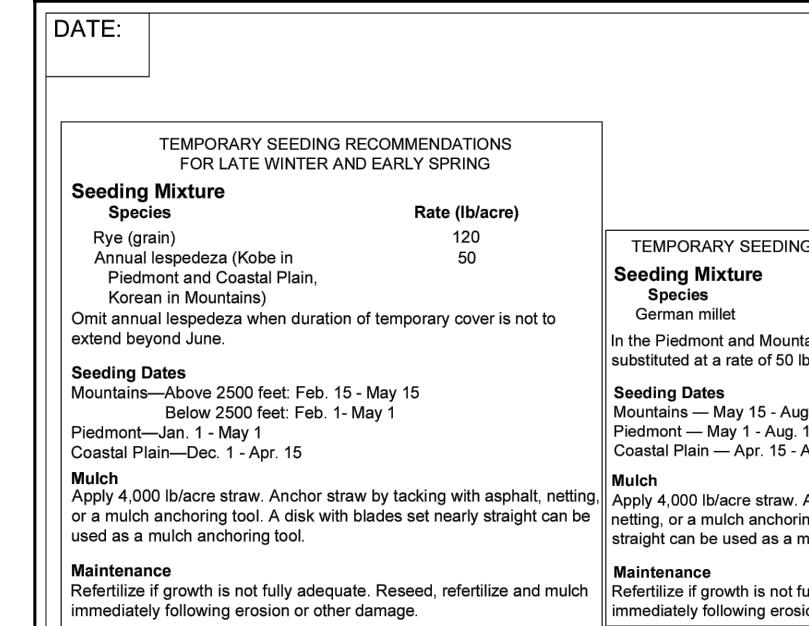
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DAWN RIDGE HOMES
3224 COPTHORNE DR.
GREENSBORO, NORTH CAROLINA
Dpt. Bkt. Chk. Bkt. Date 10/27/2020 Job Number 2024-17

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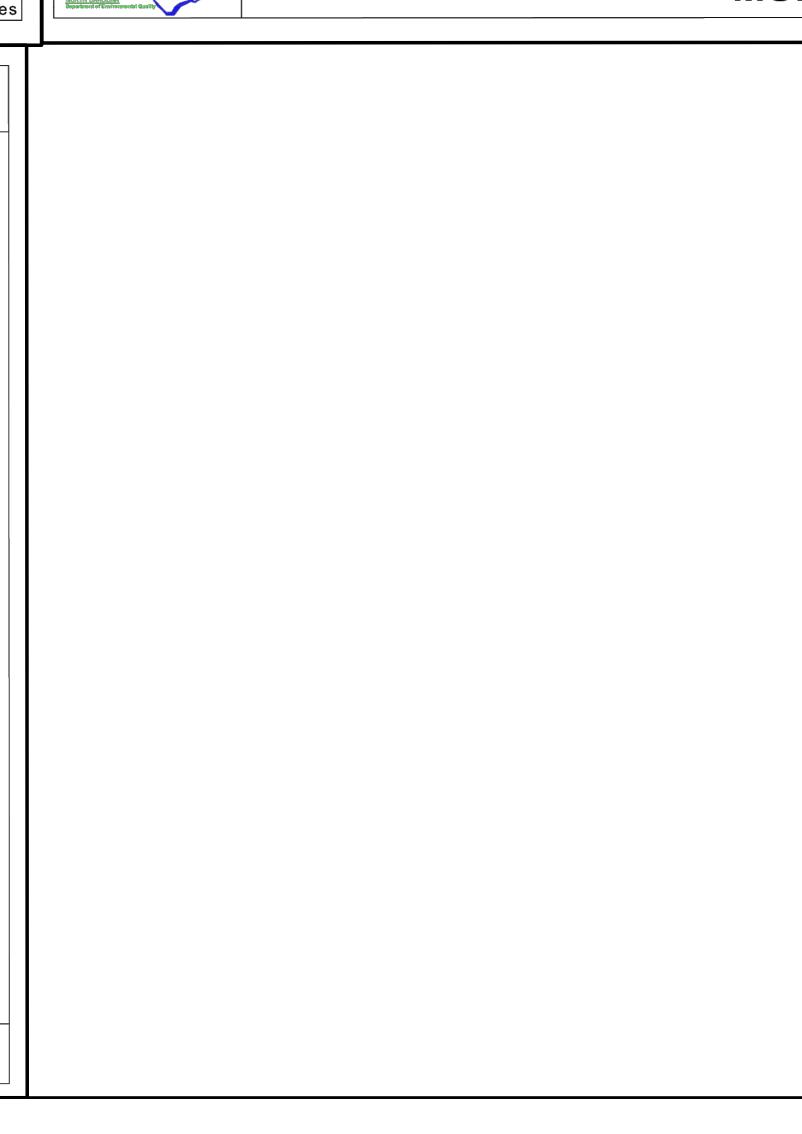
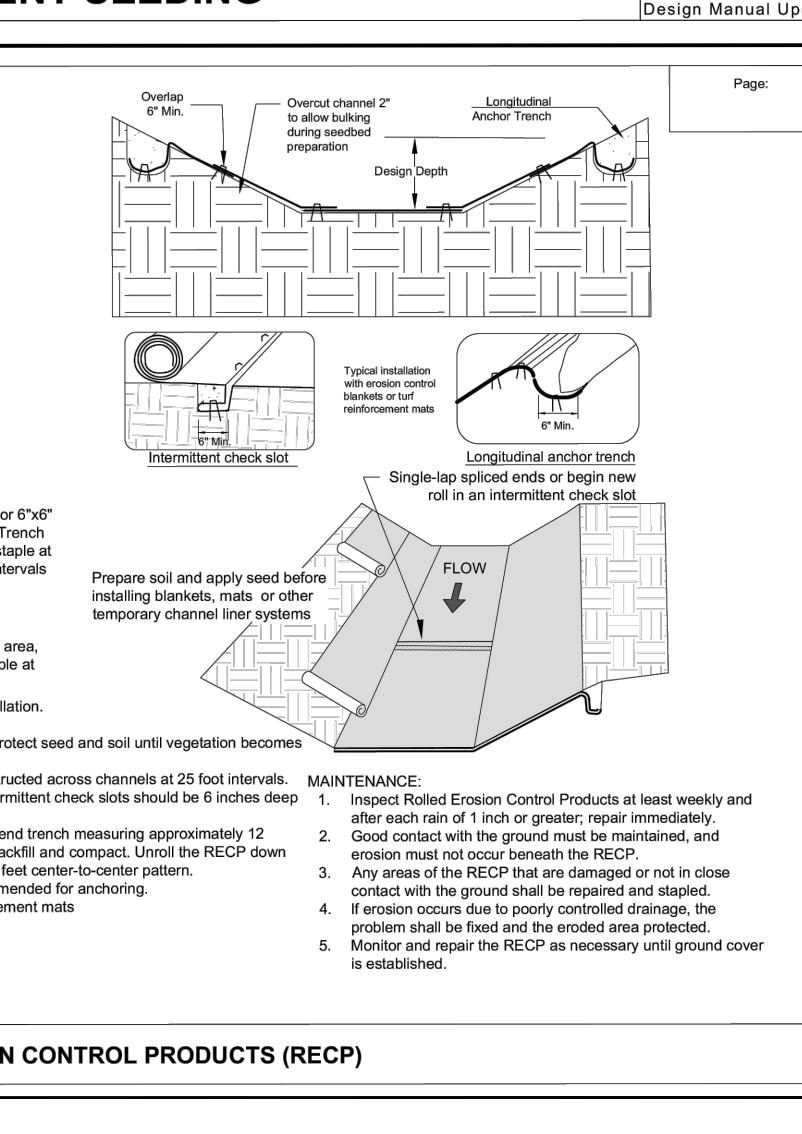
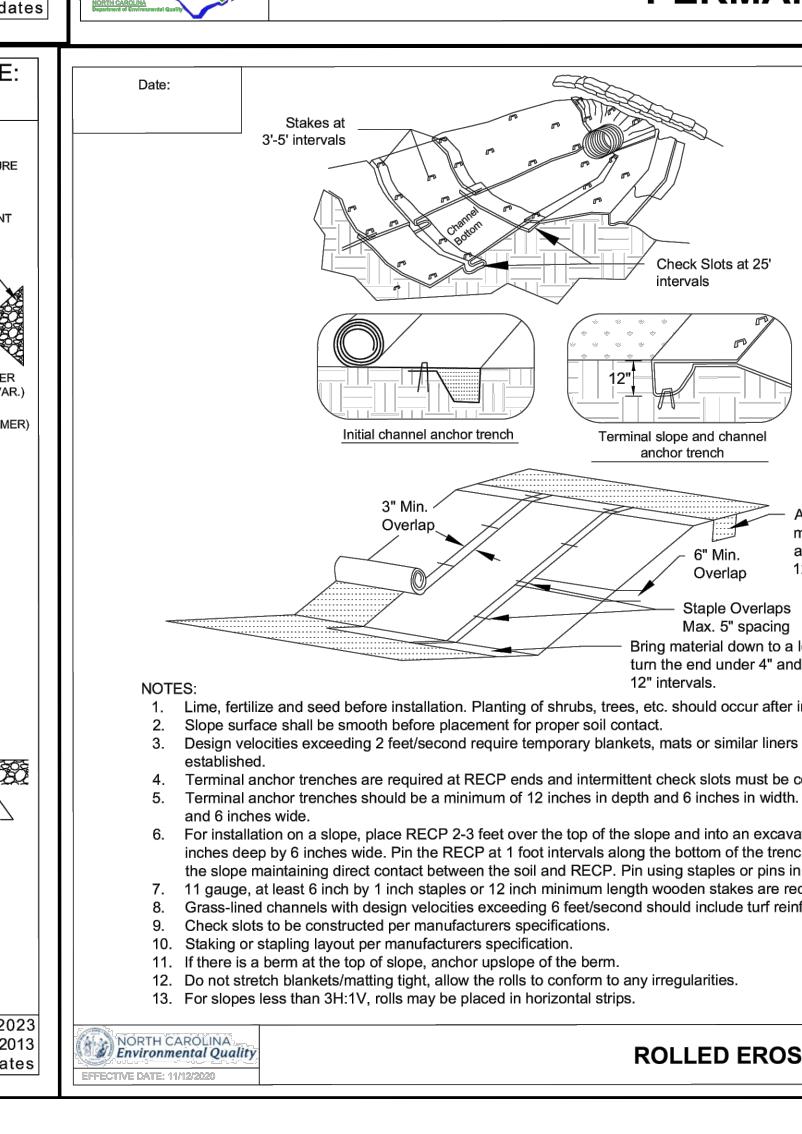
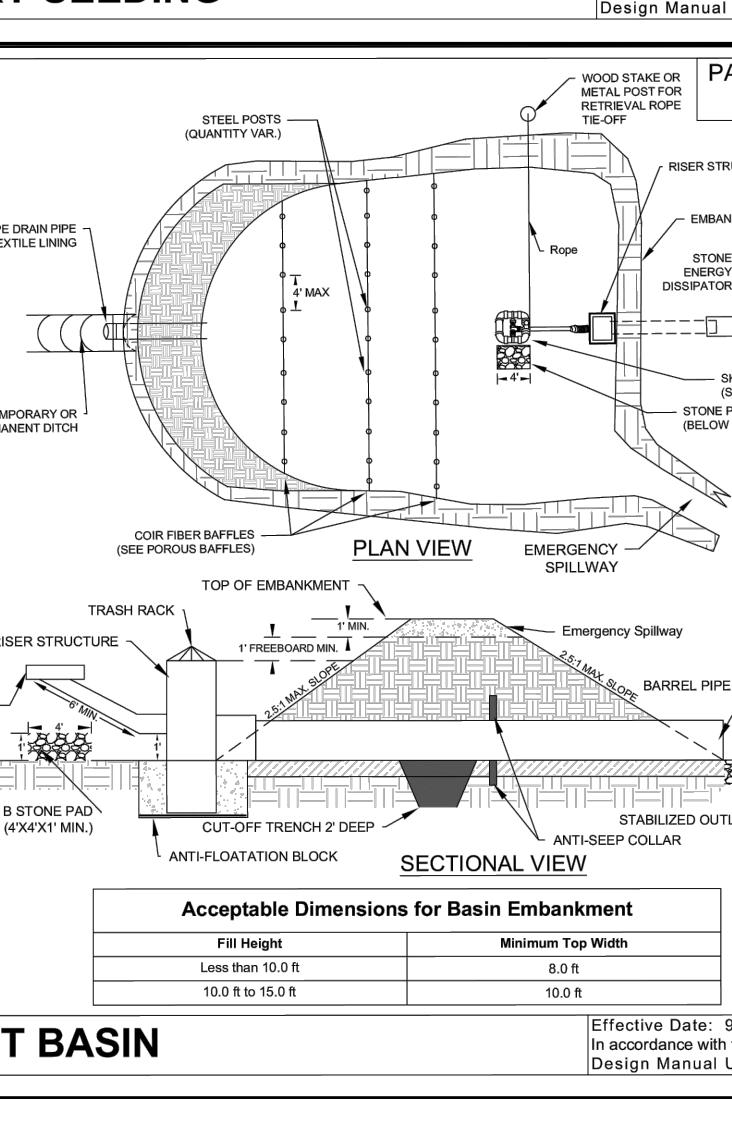
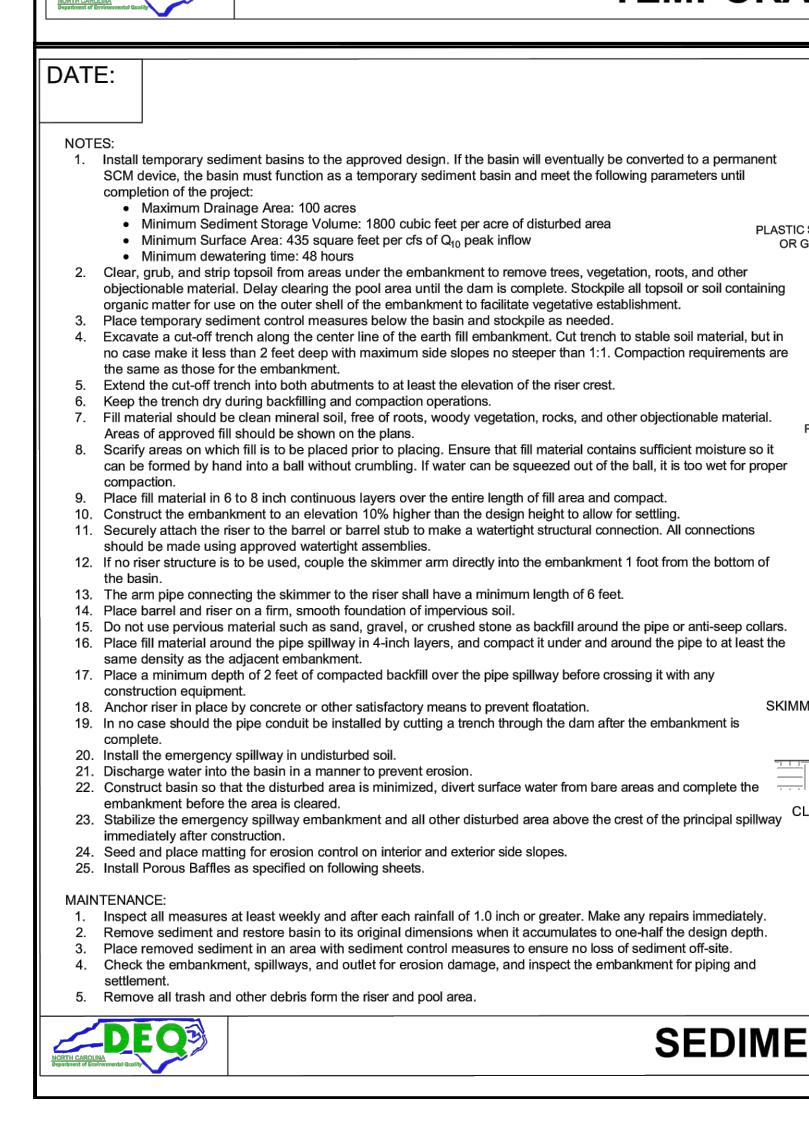
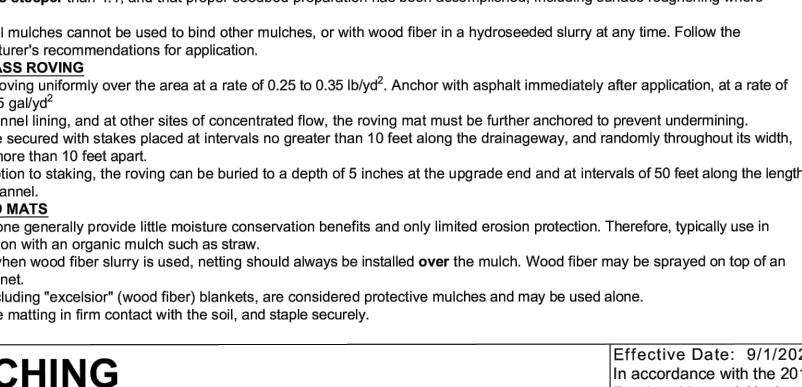
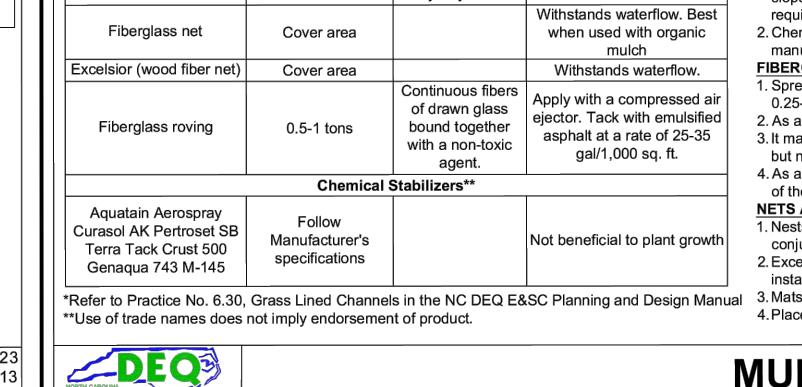
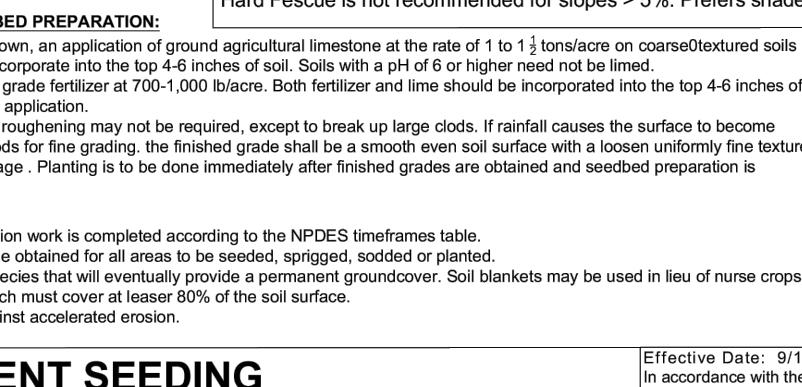
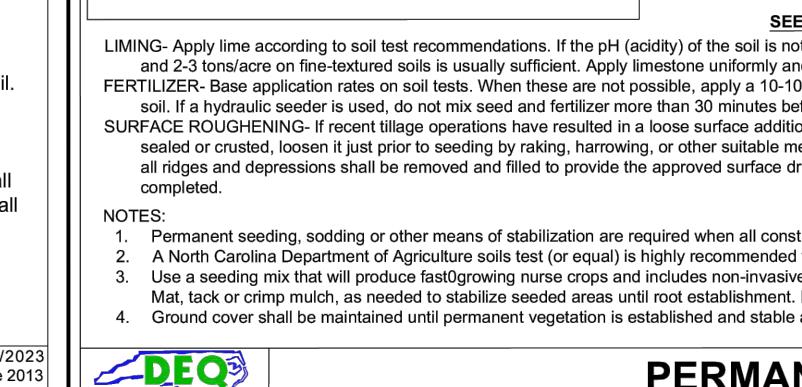
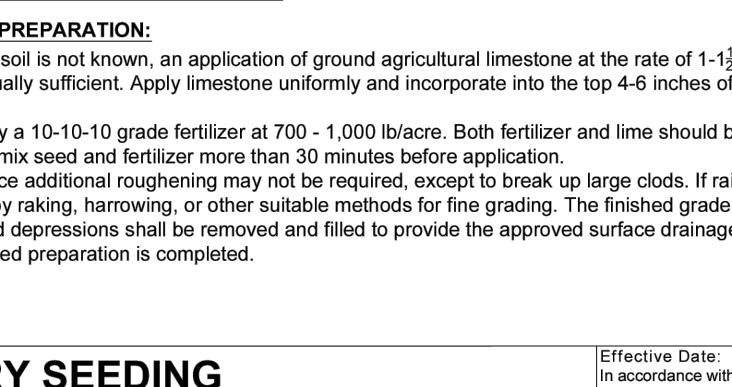
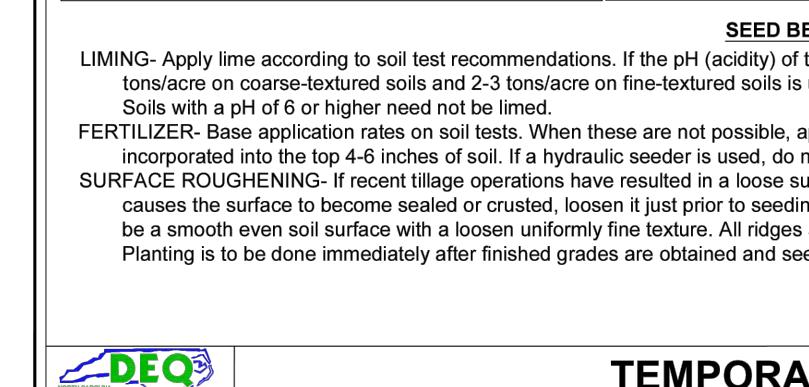
NON-INVASIVE PERMANENT SEEDING
RECOMMENDATIONS FOR FALL



DAWN RIDGE HOMES
3224 COPTHORNE DR.
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PERMANENT SEEDING

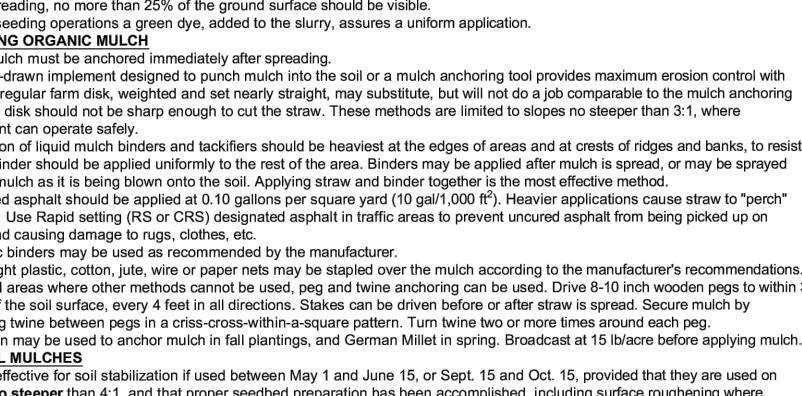
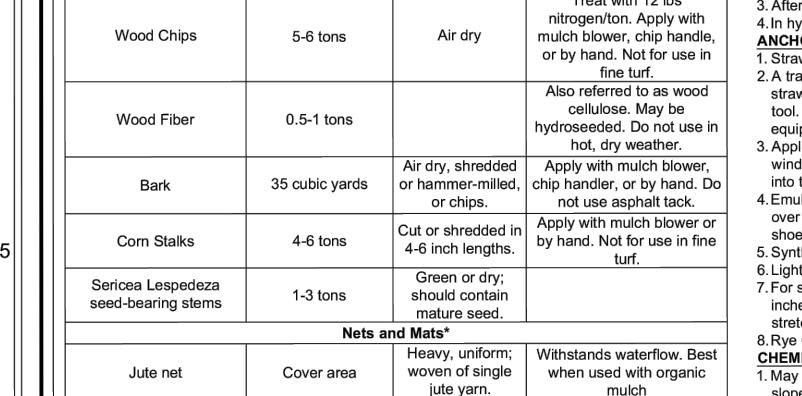
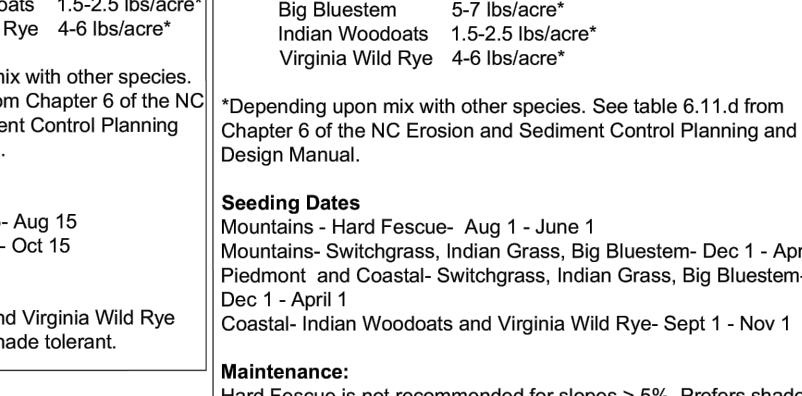
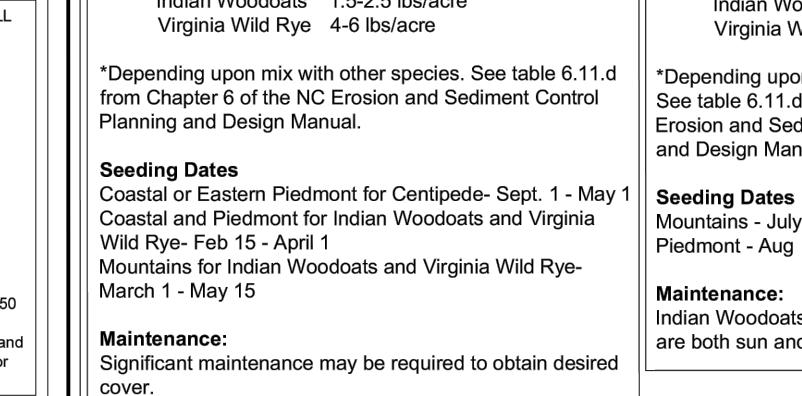
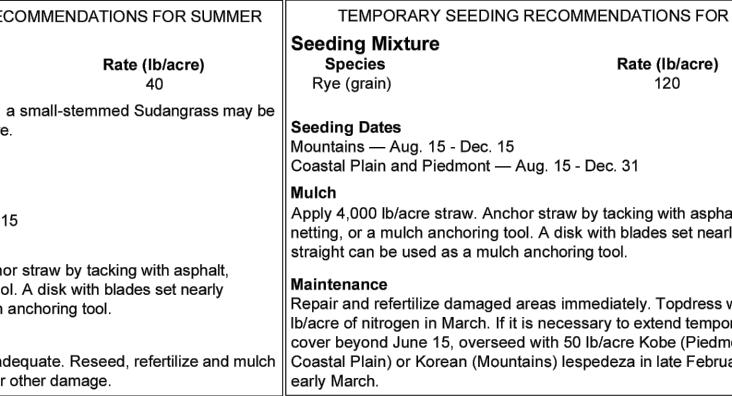
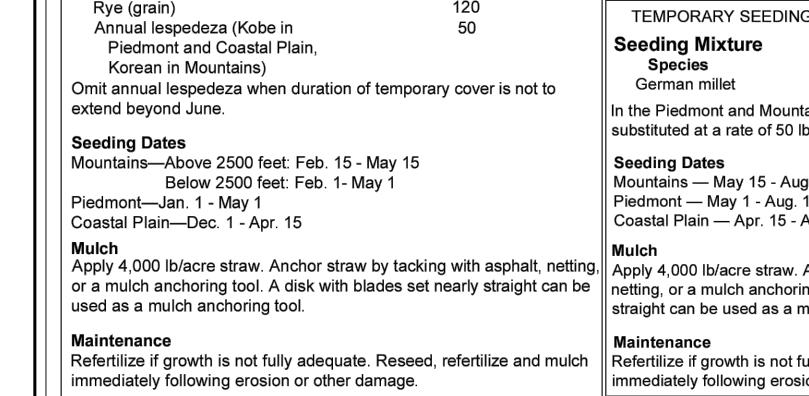


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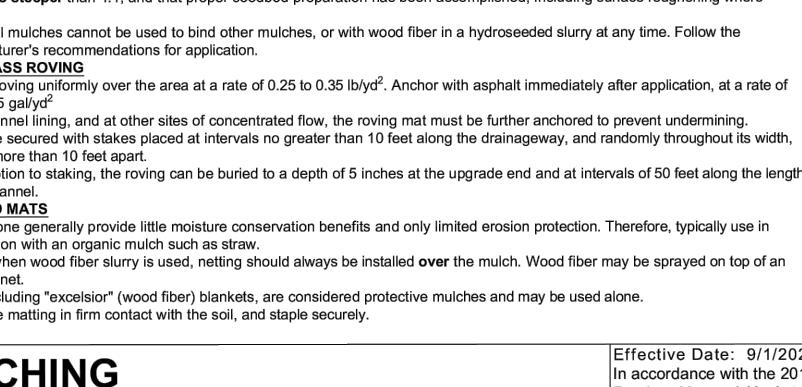
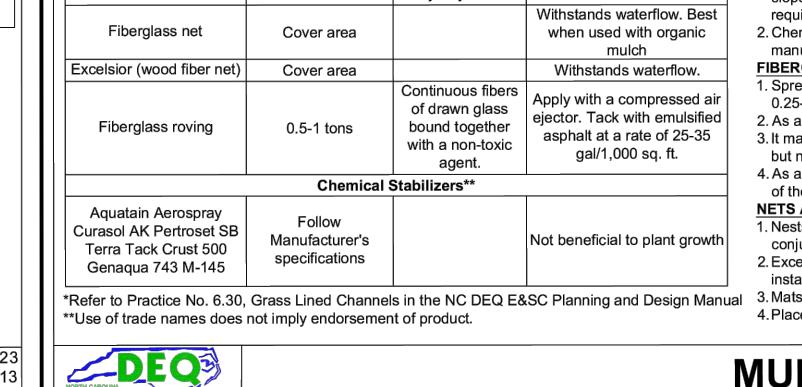
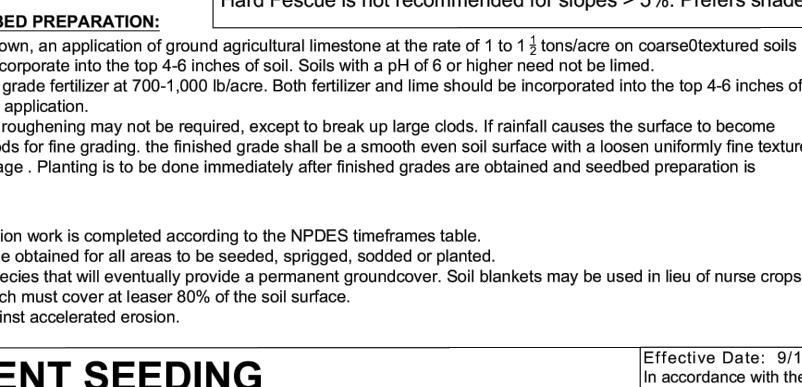
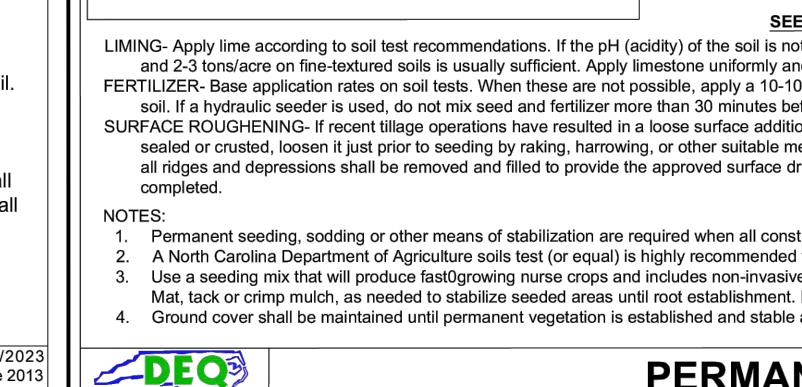
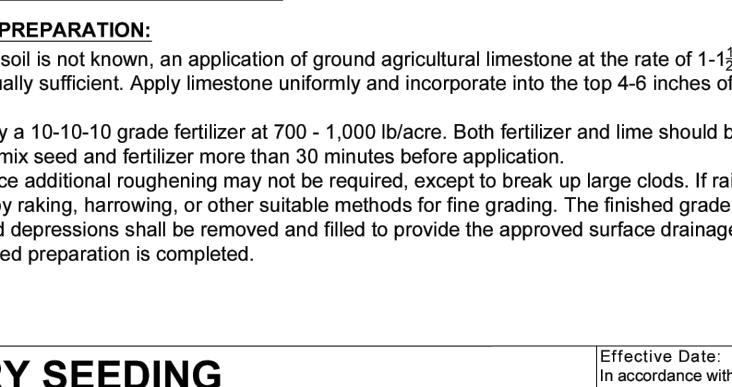
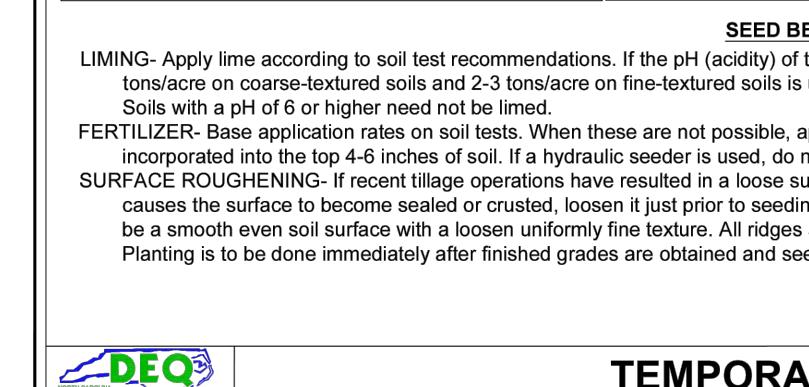
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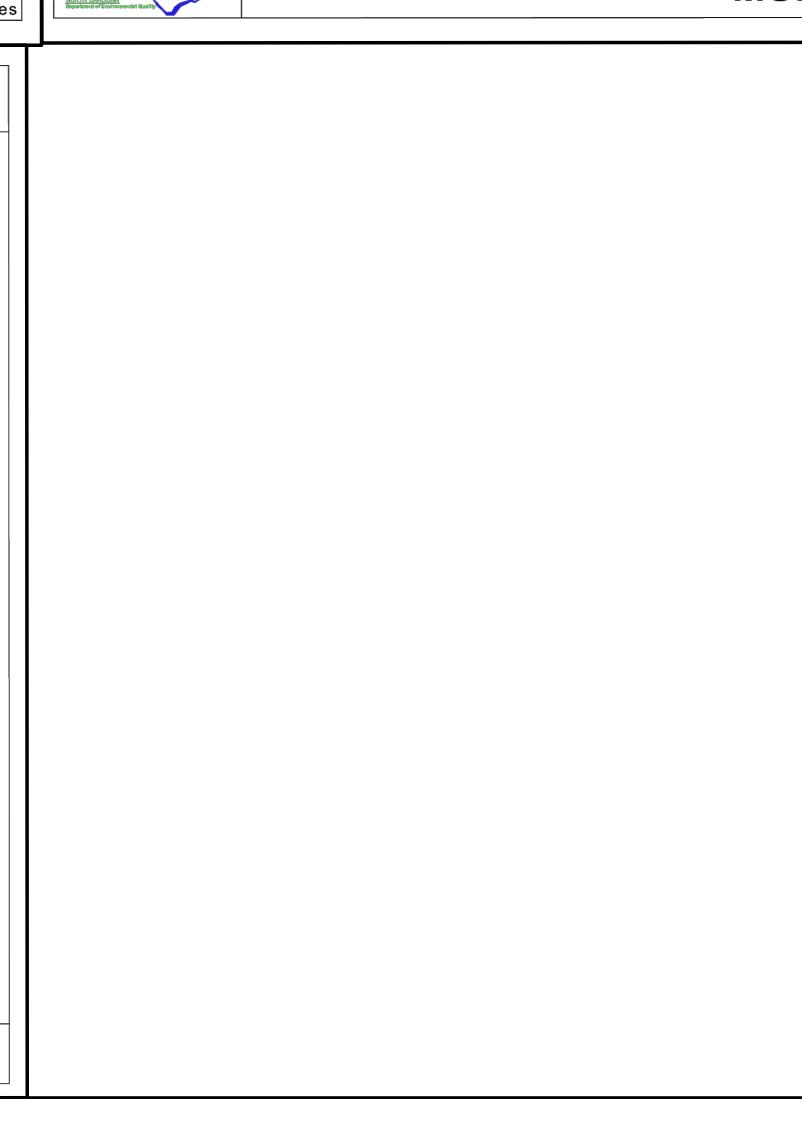
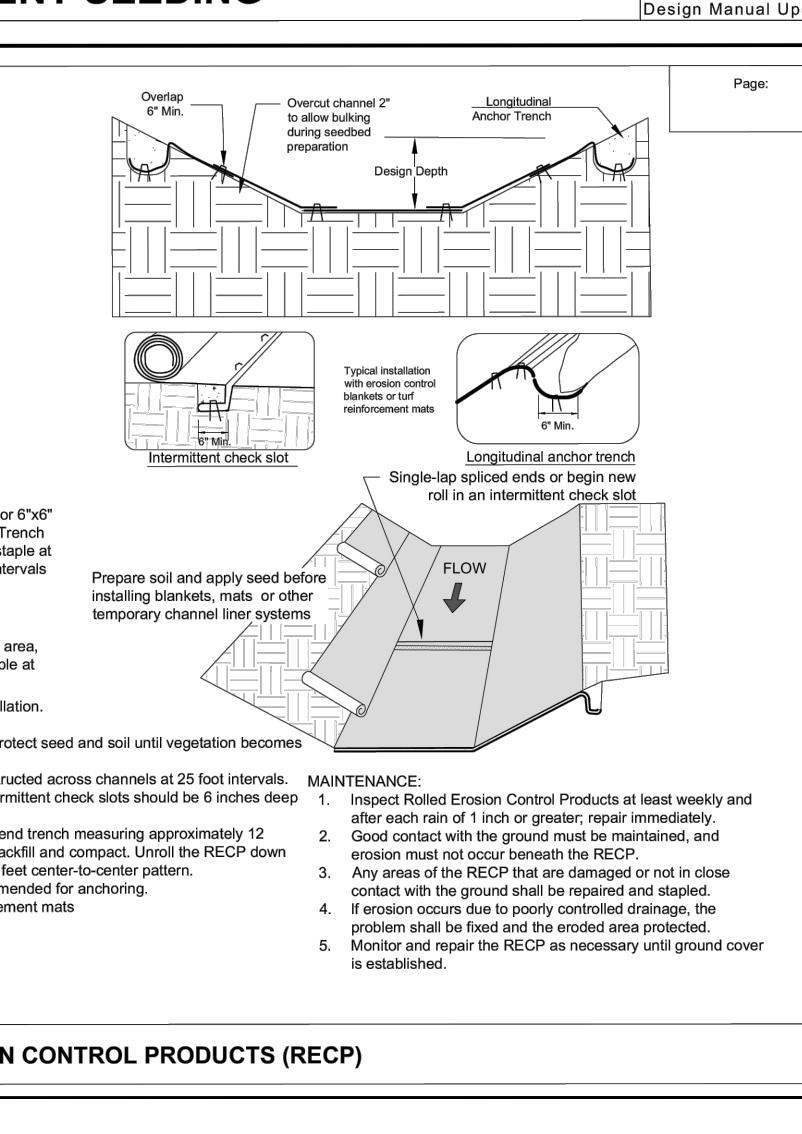
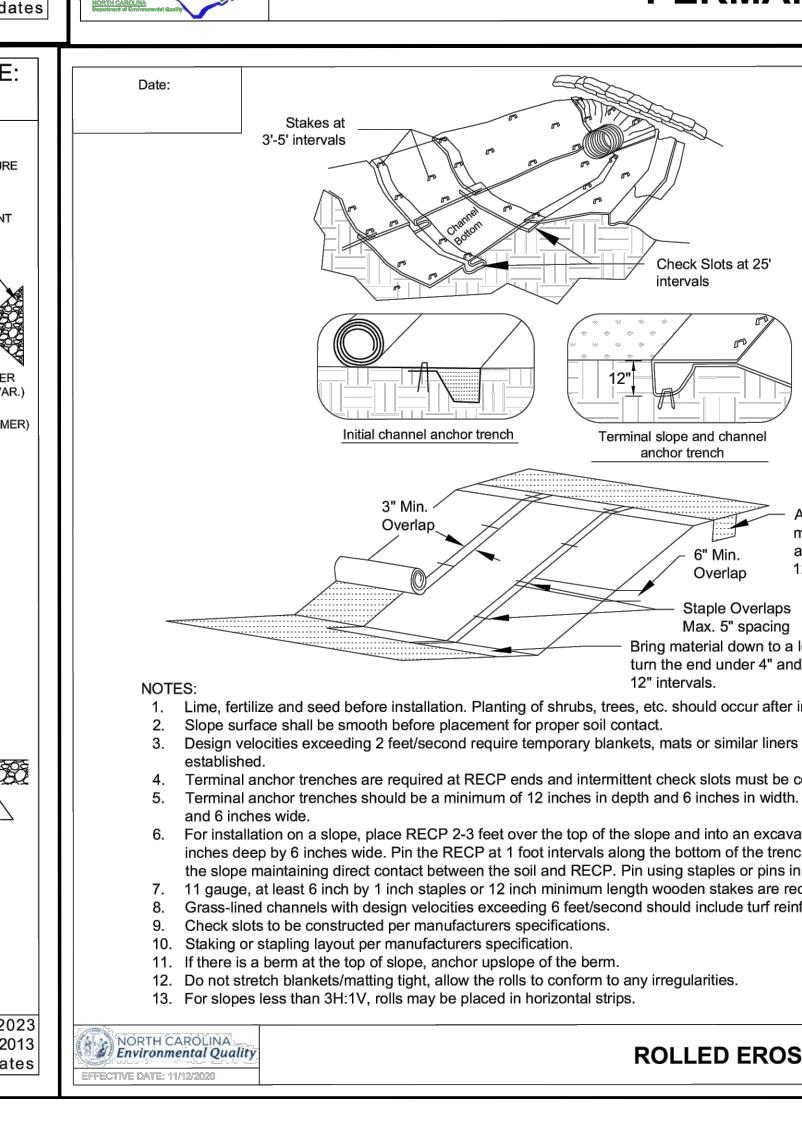
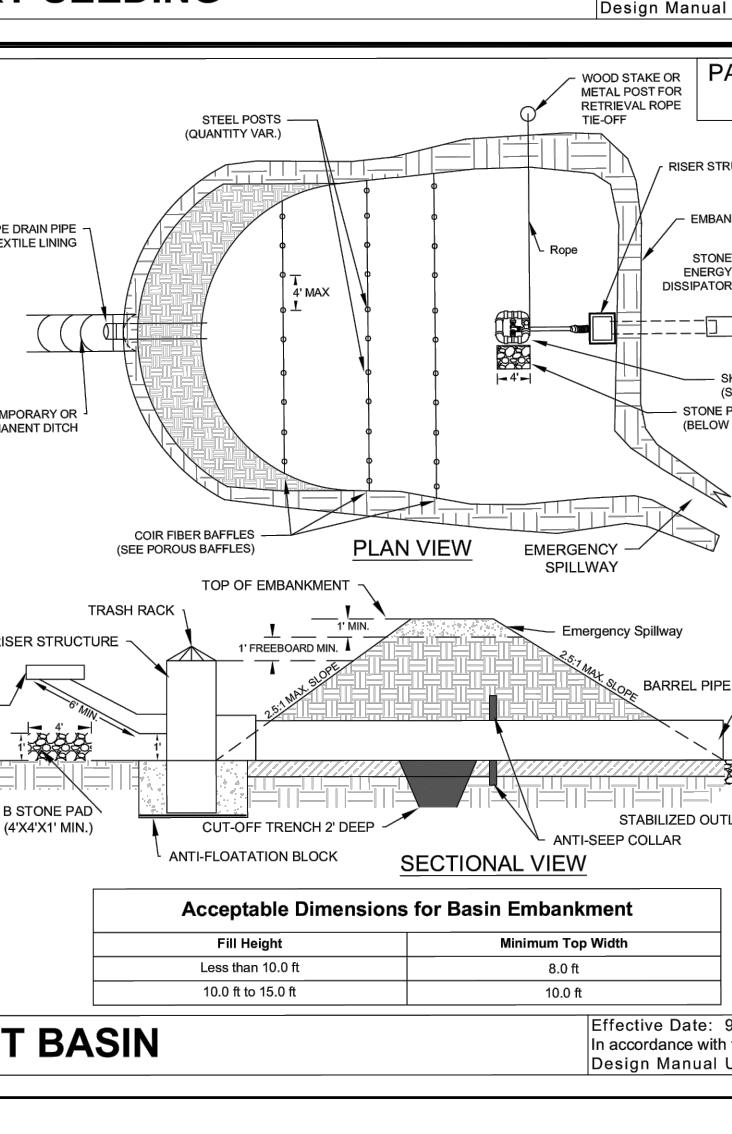
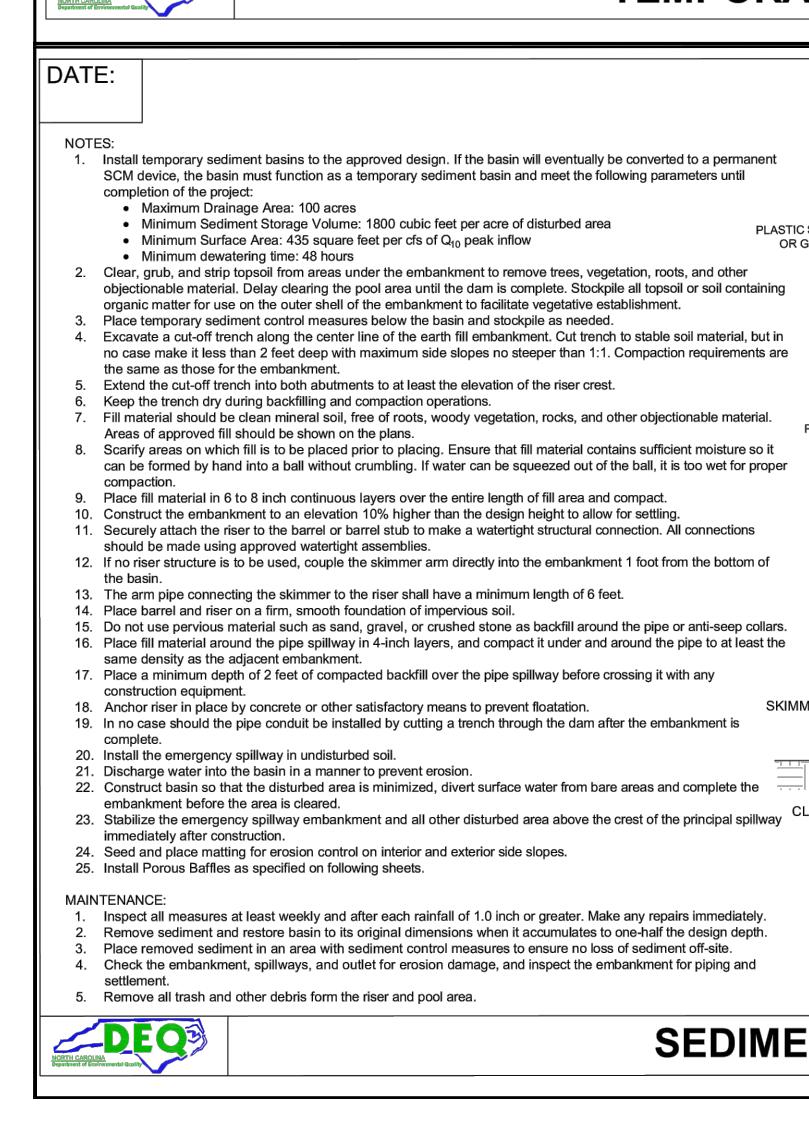
MULCHING MATERIALS AND APPLICATION RATES



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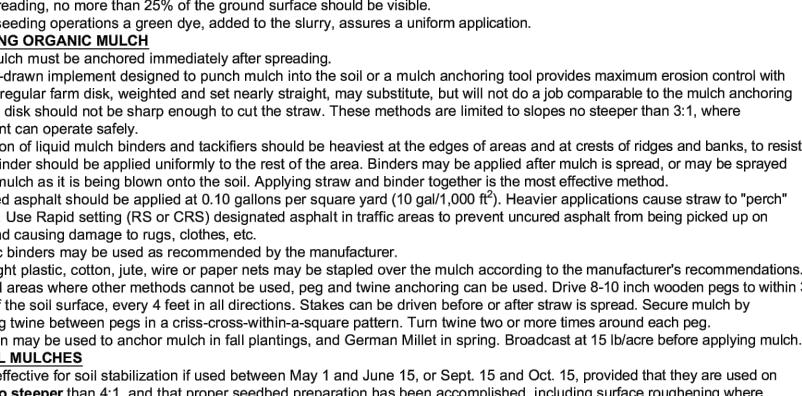
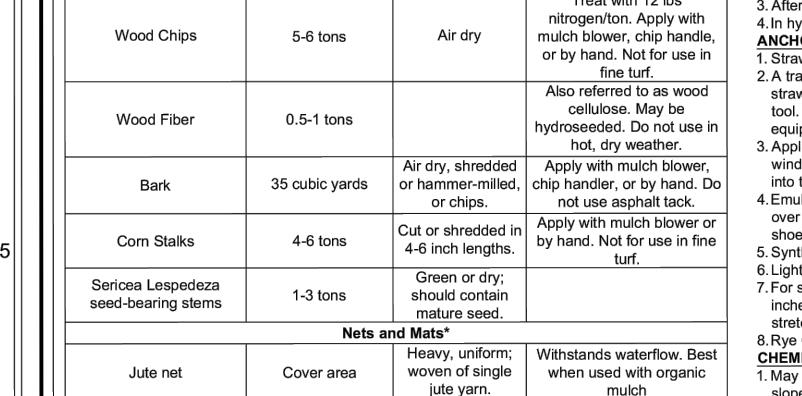
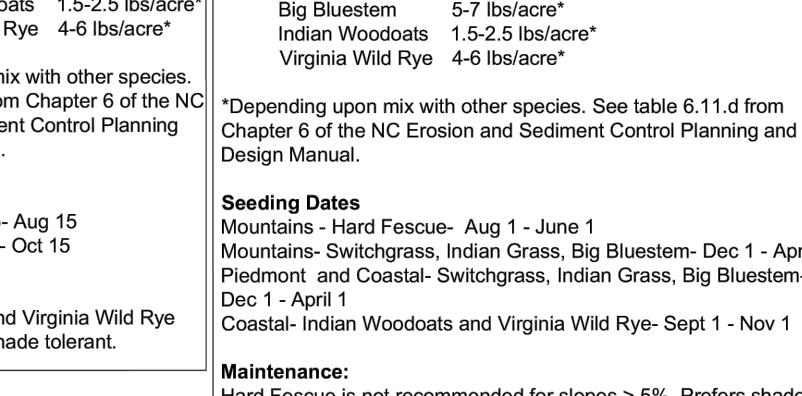
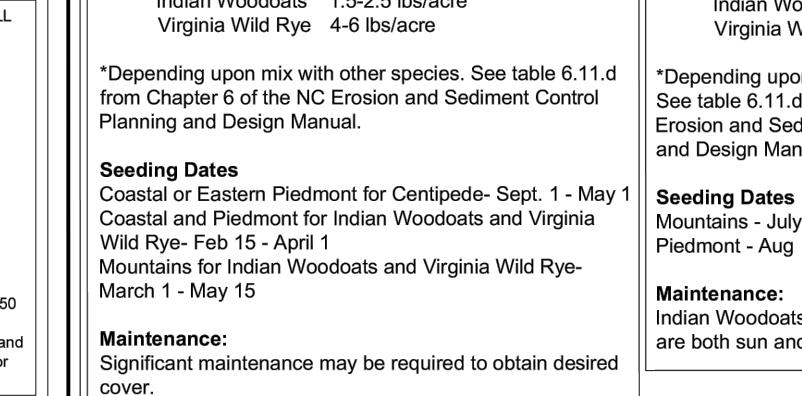
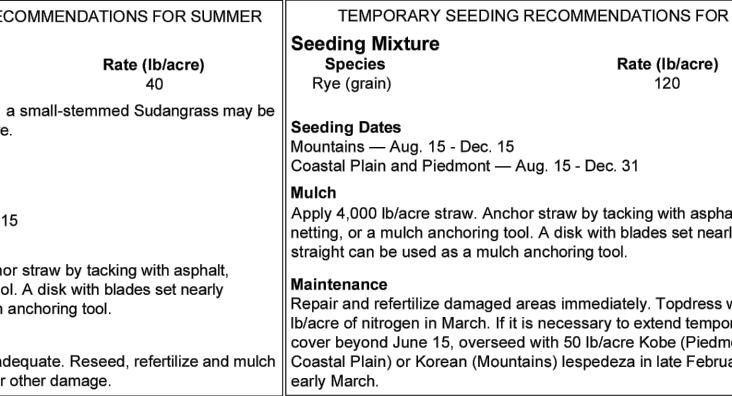
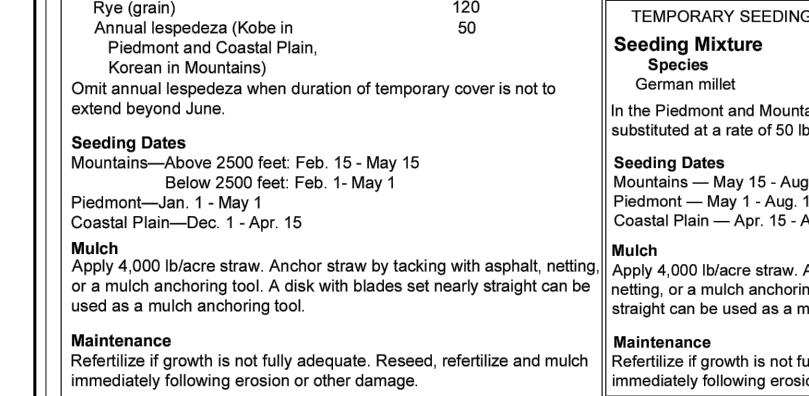


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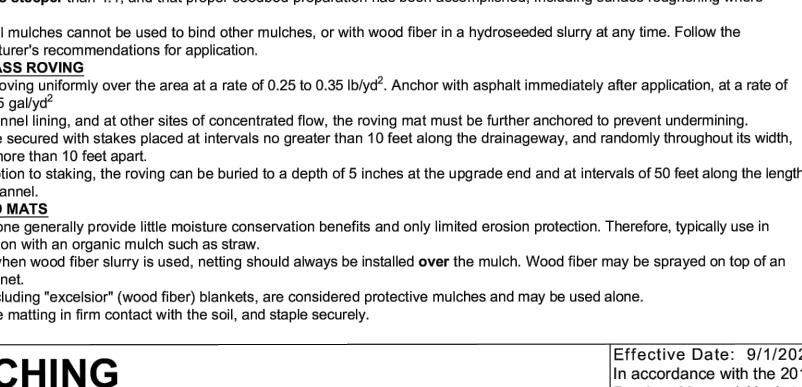
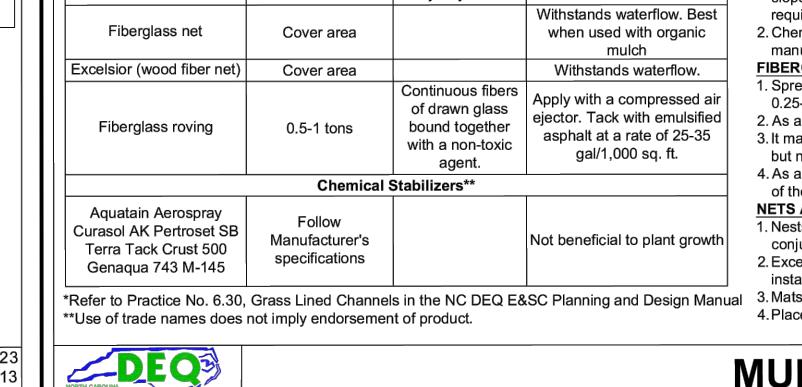
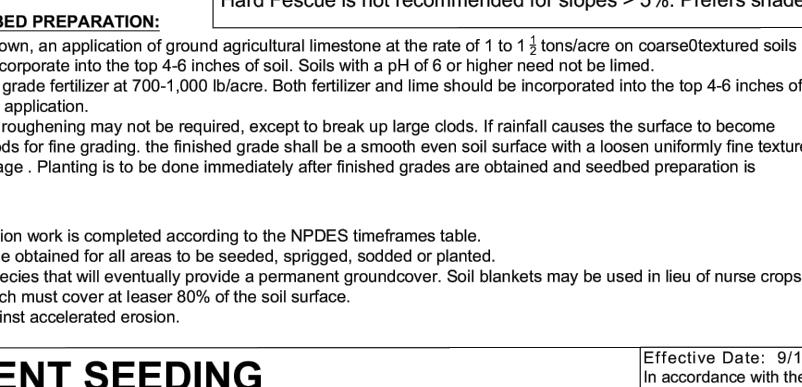
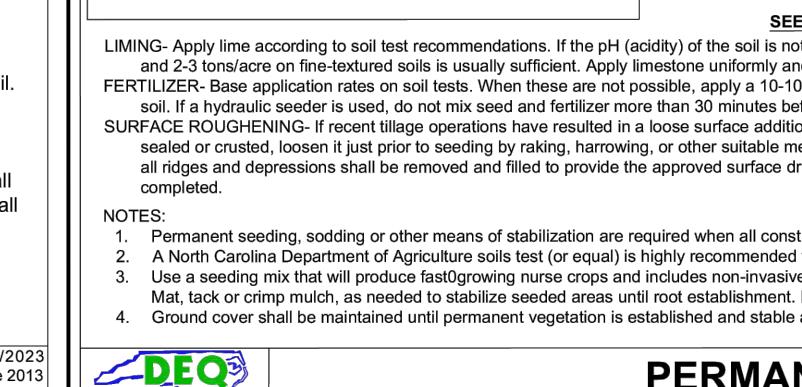
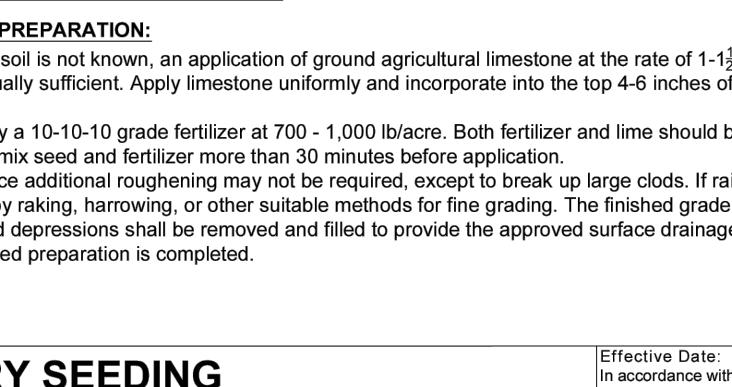
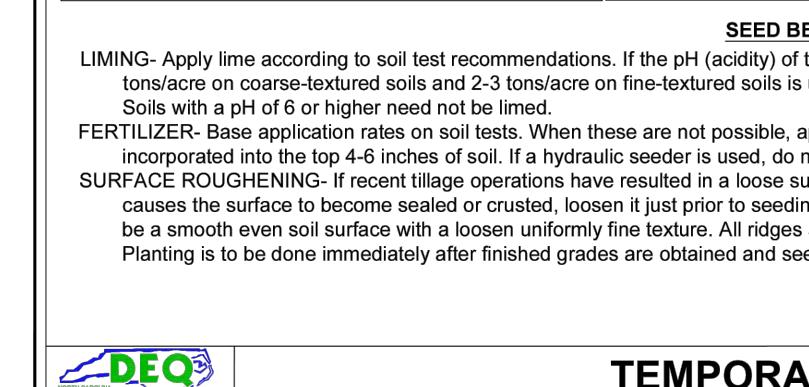
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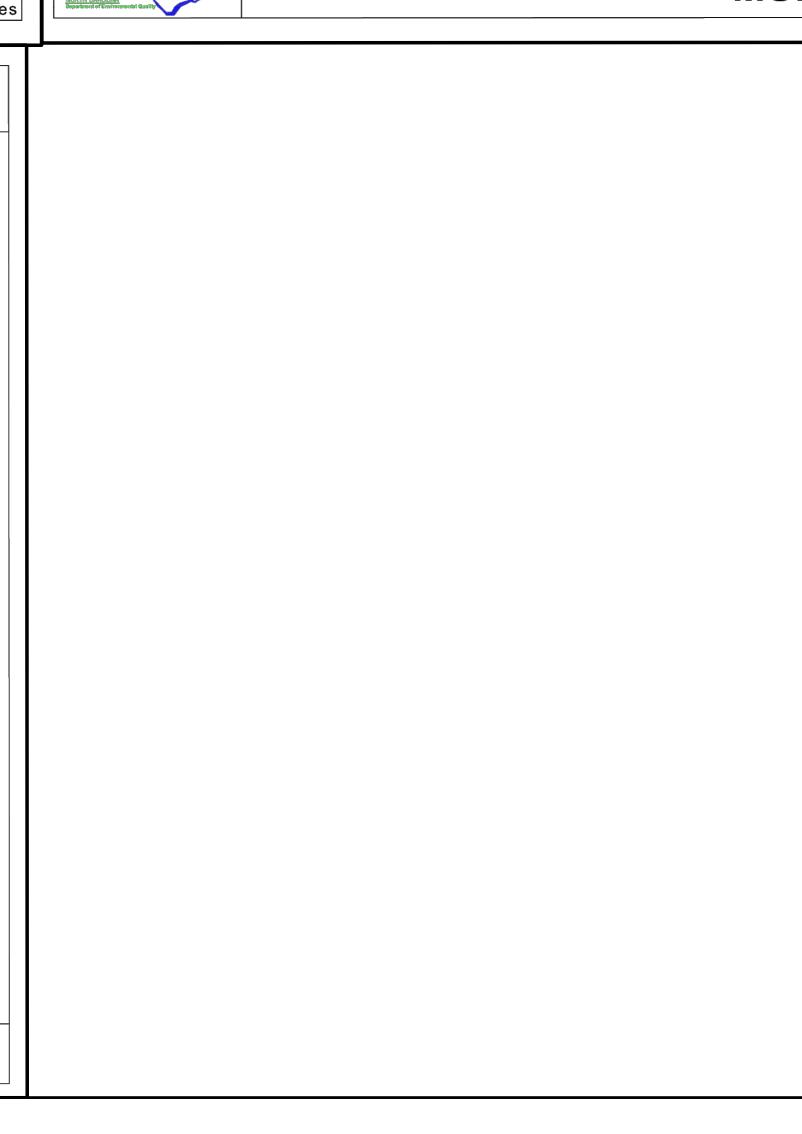
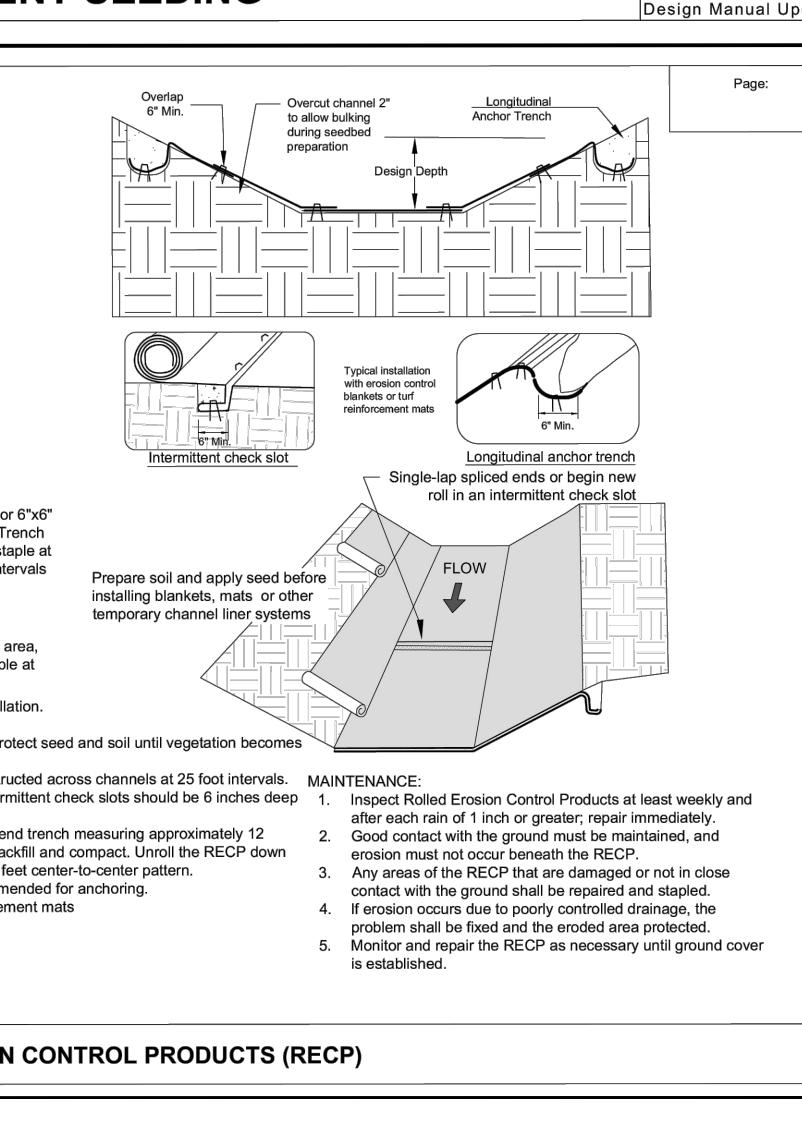
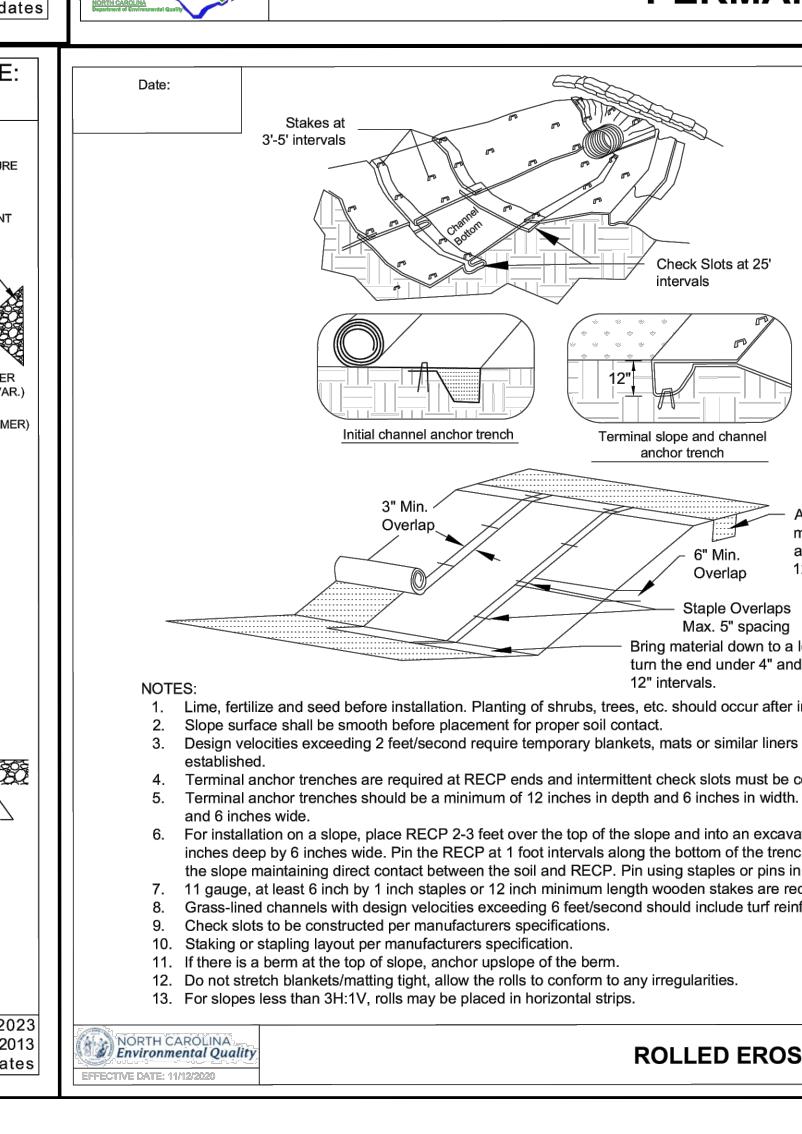
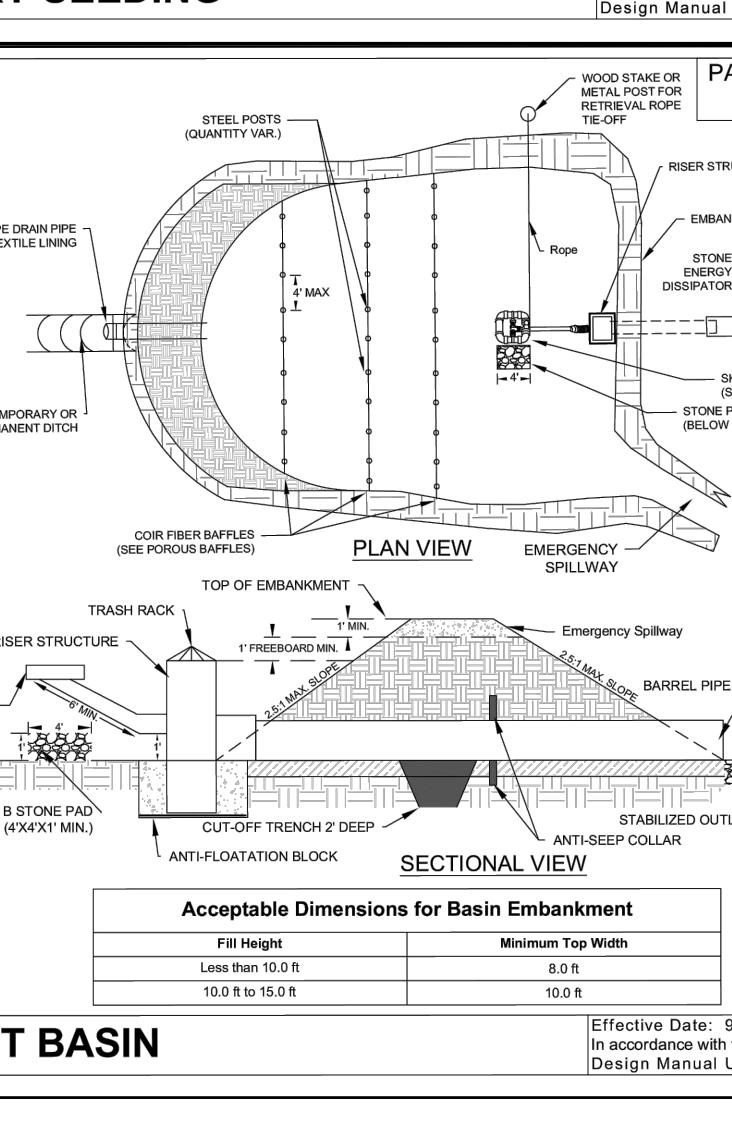
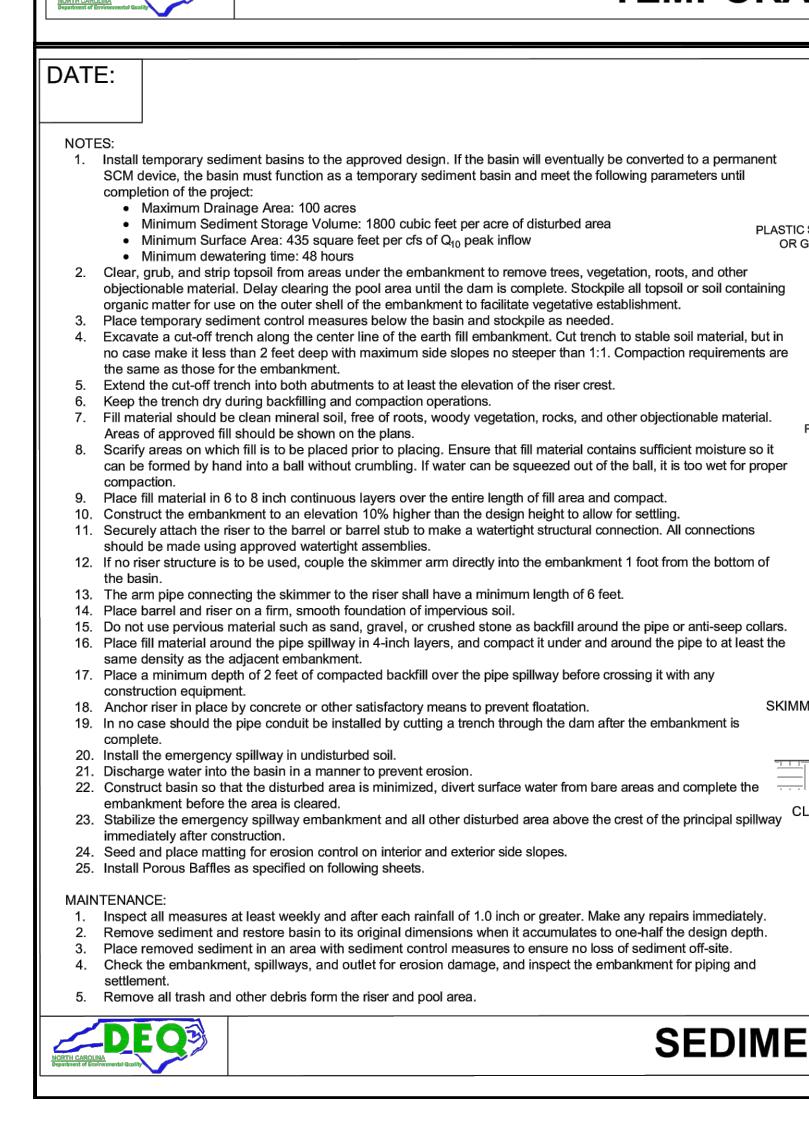


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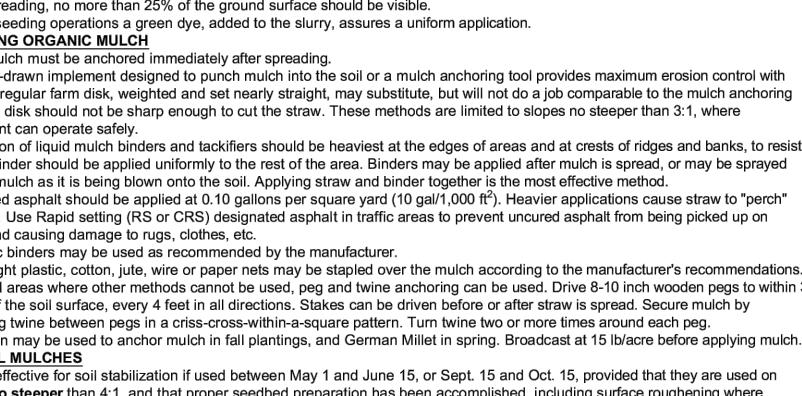
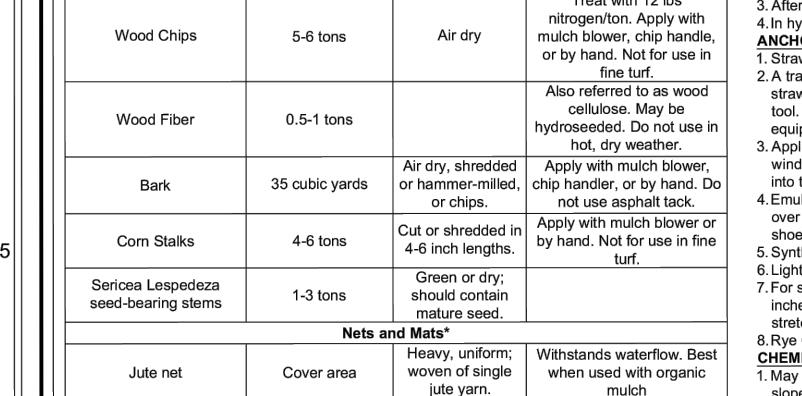
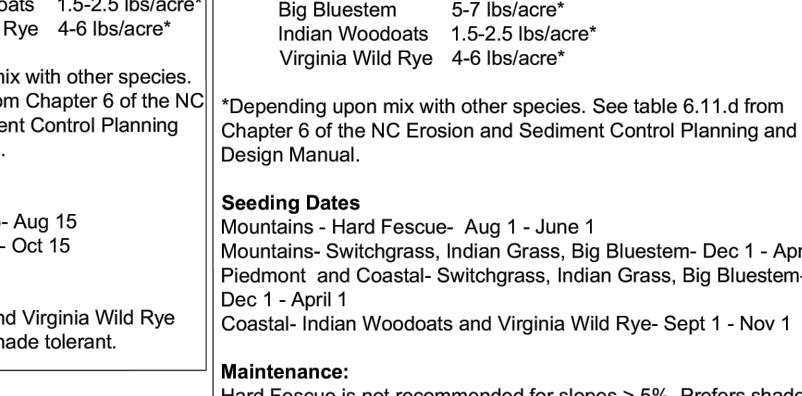
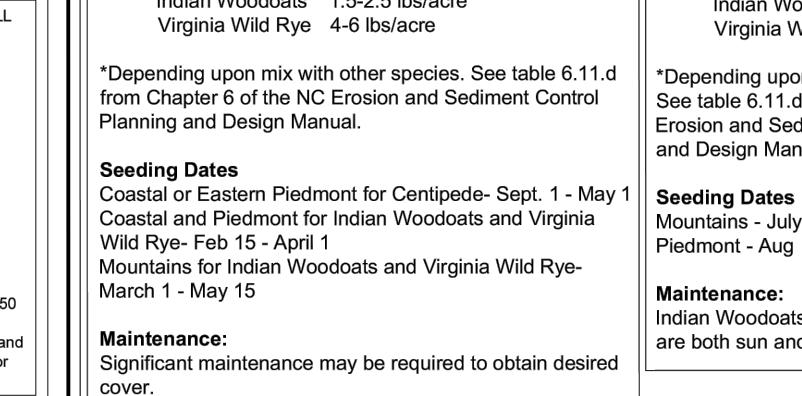
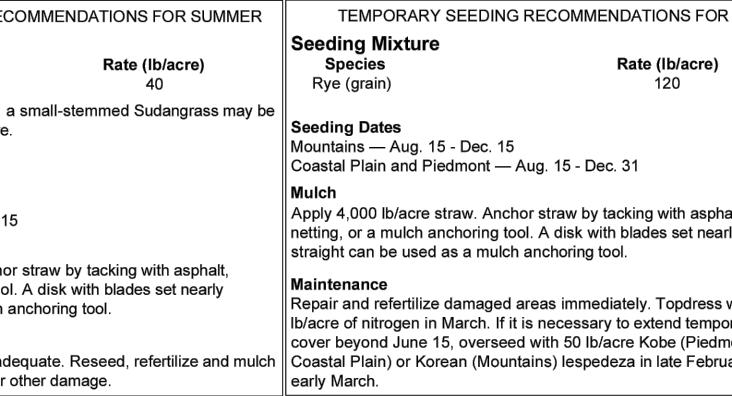
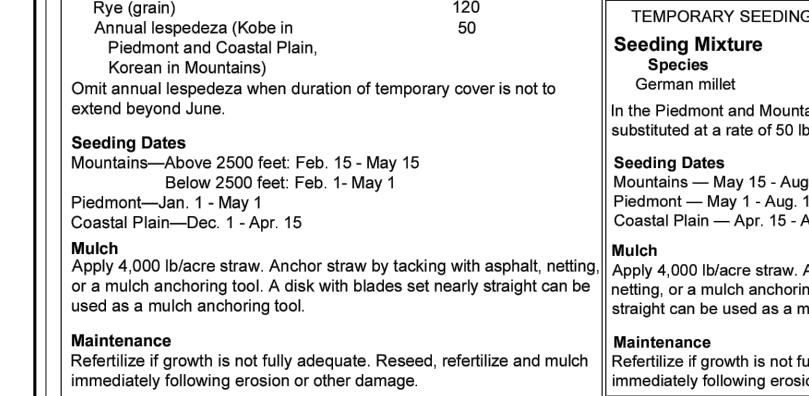


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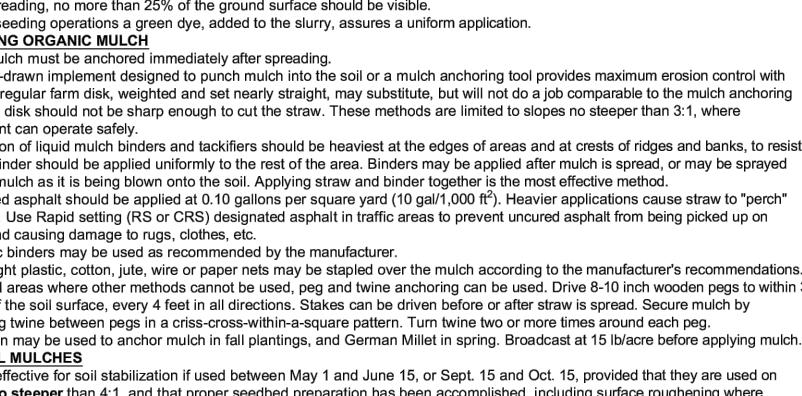
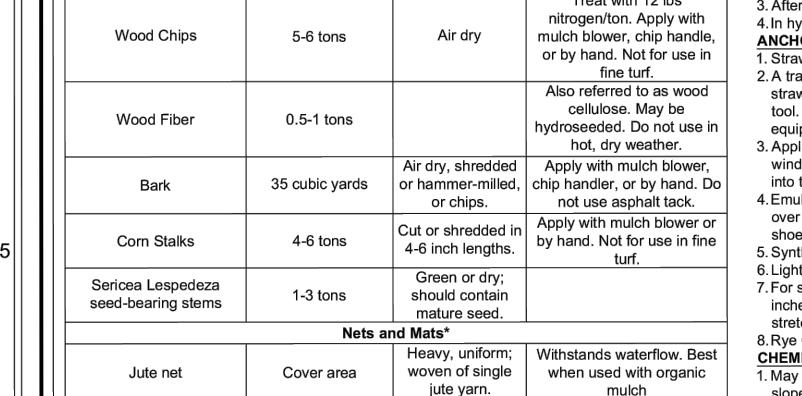
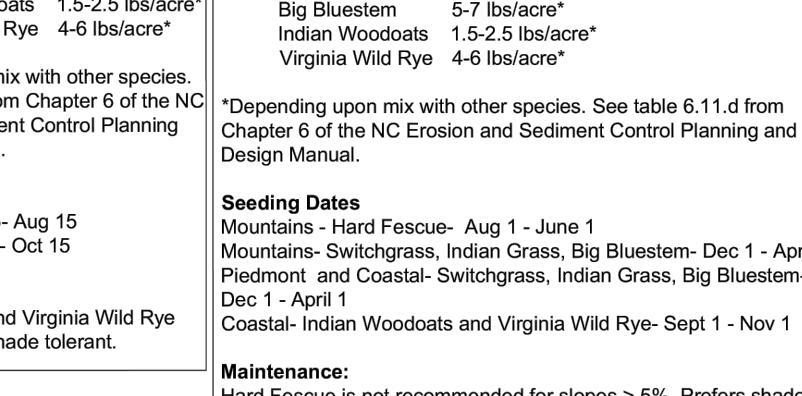
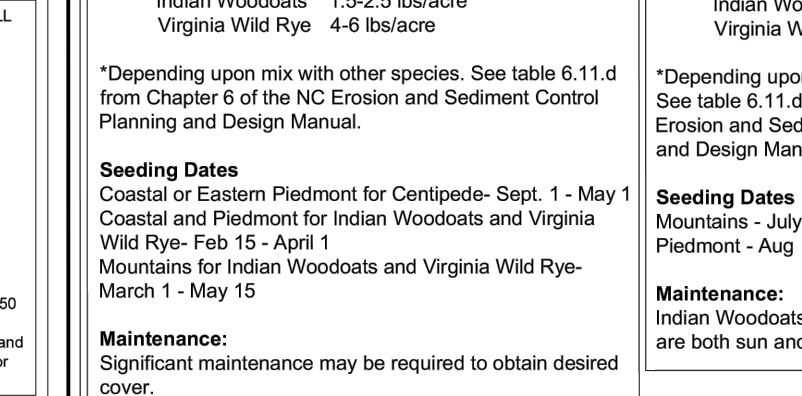
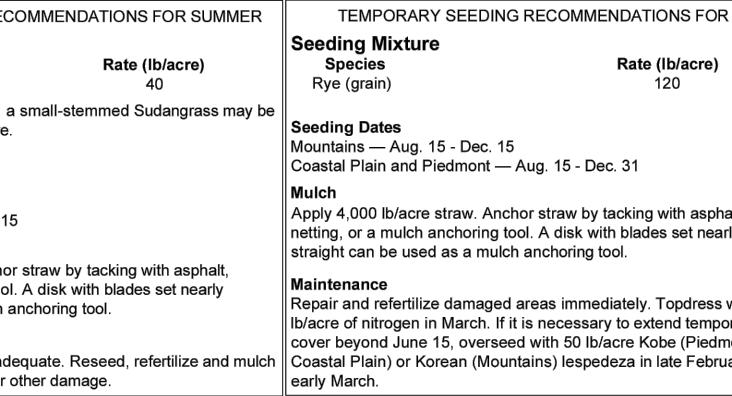
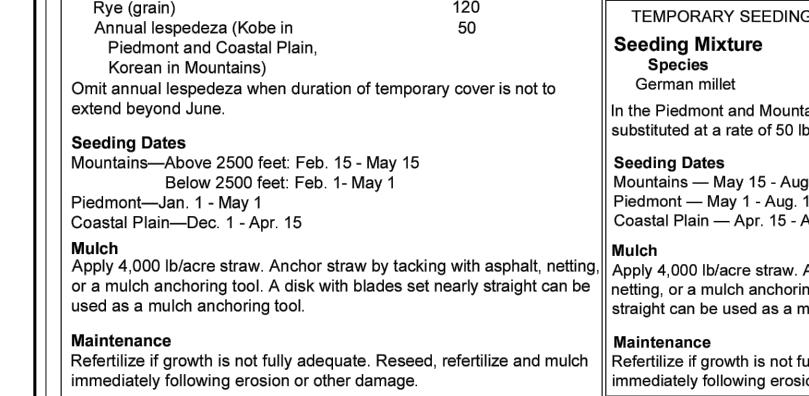


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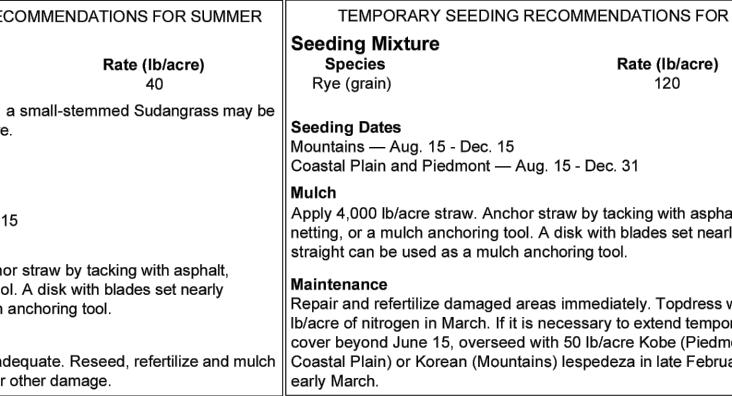
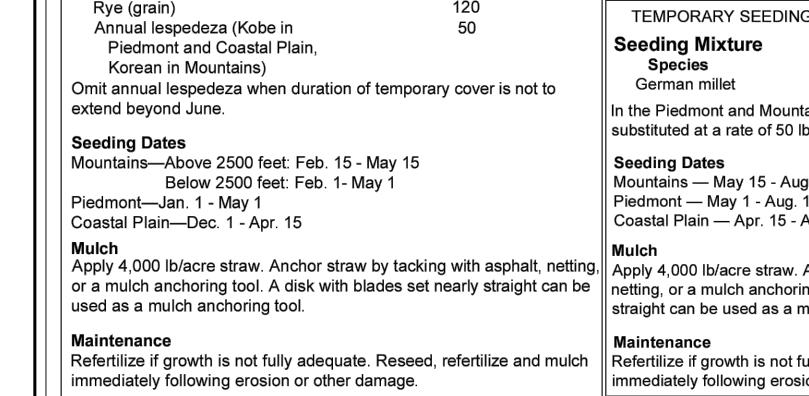


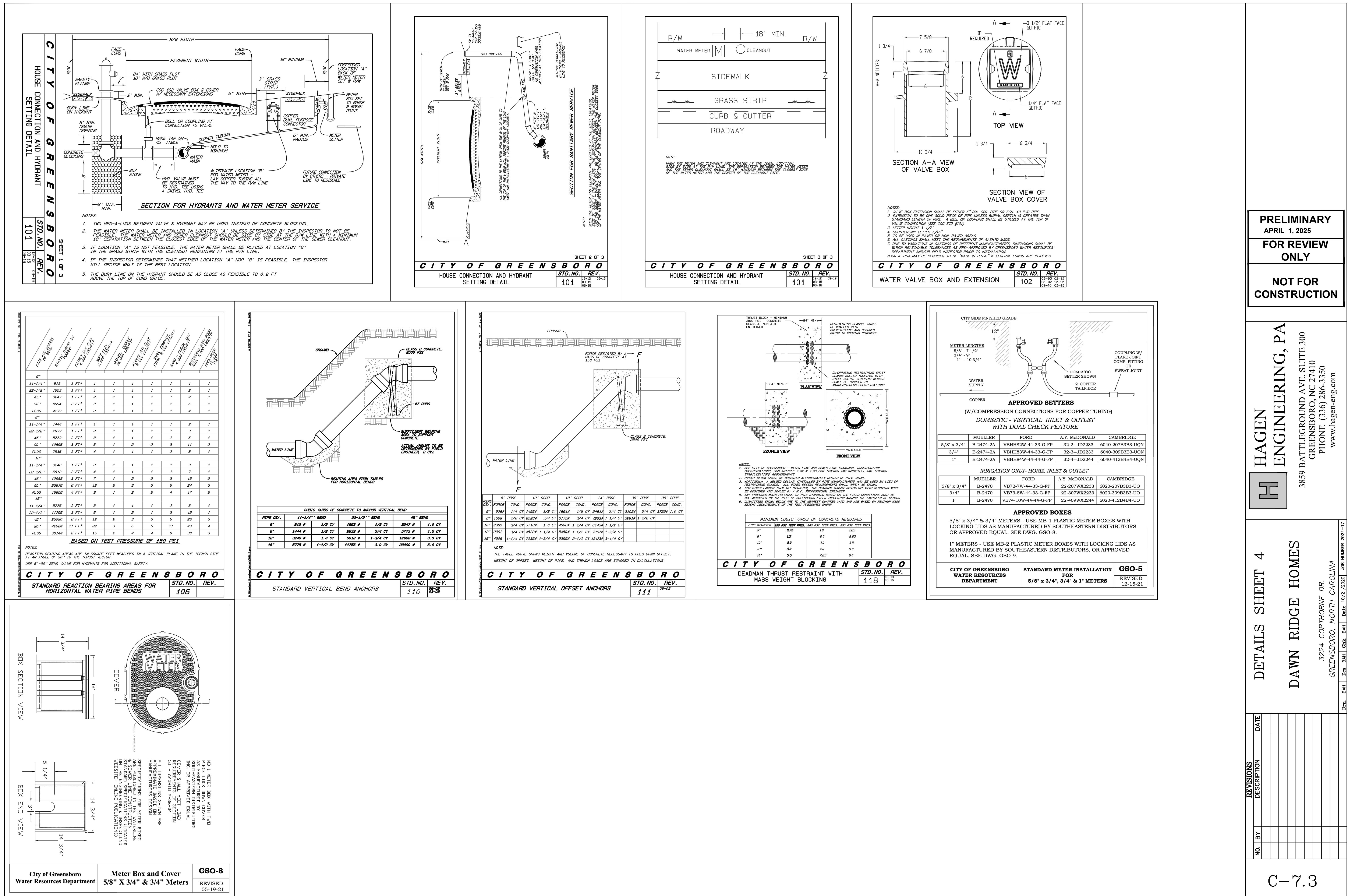
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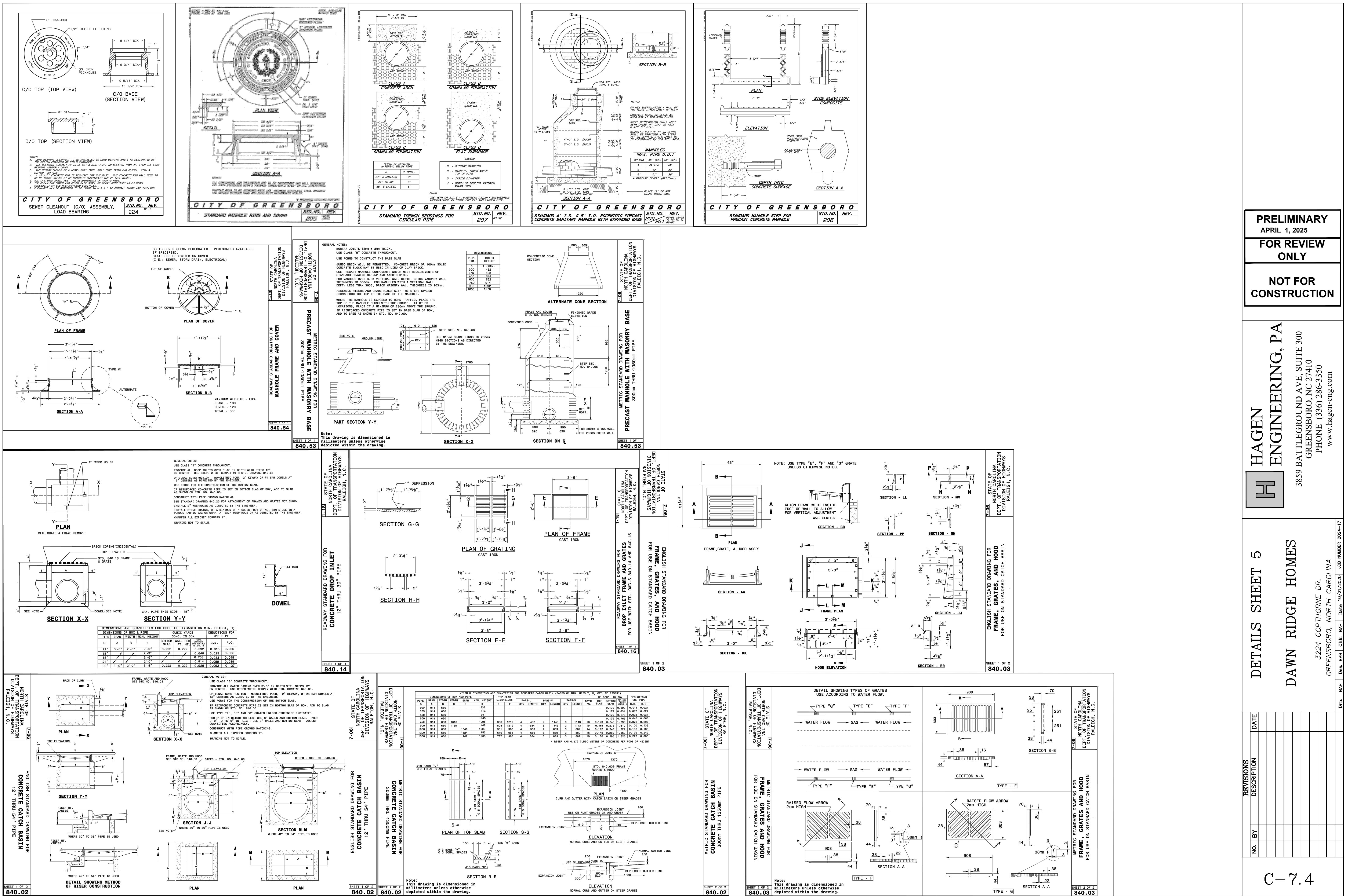
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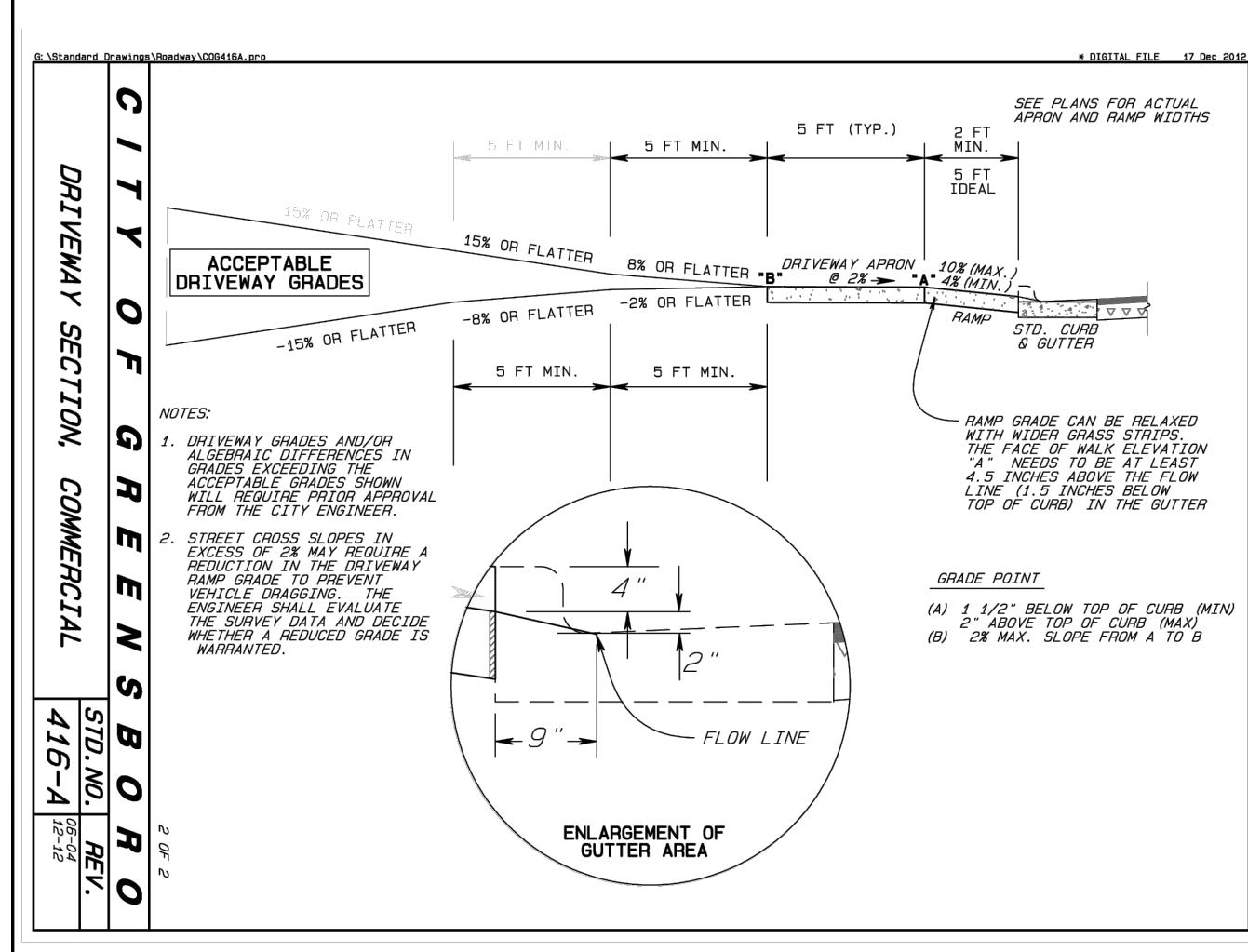
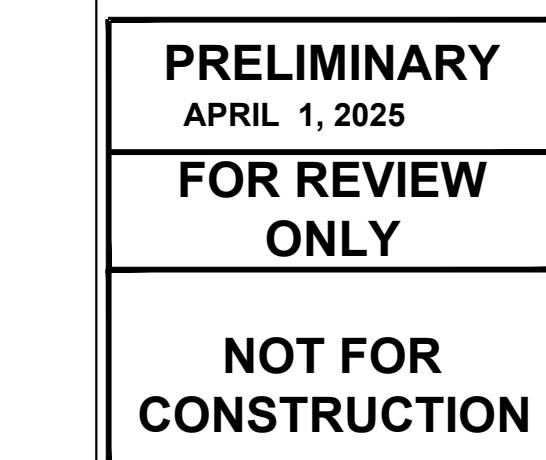
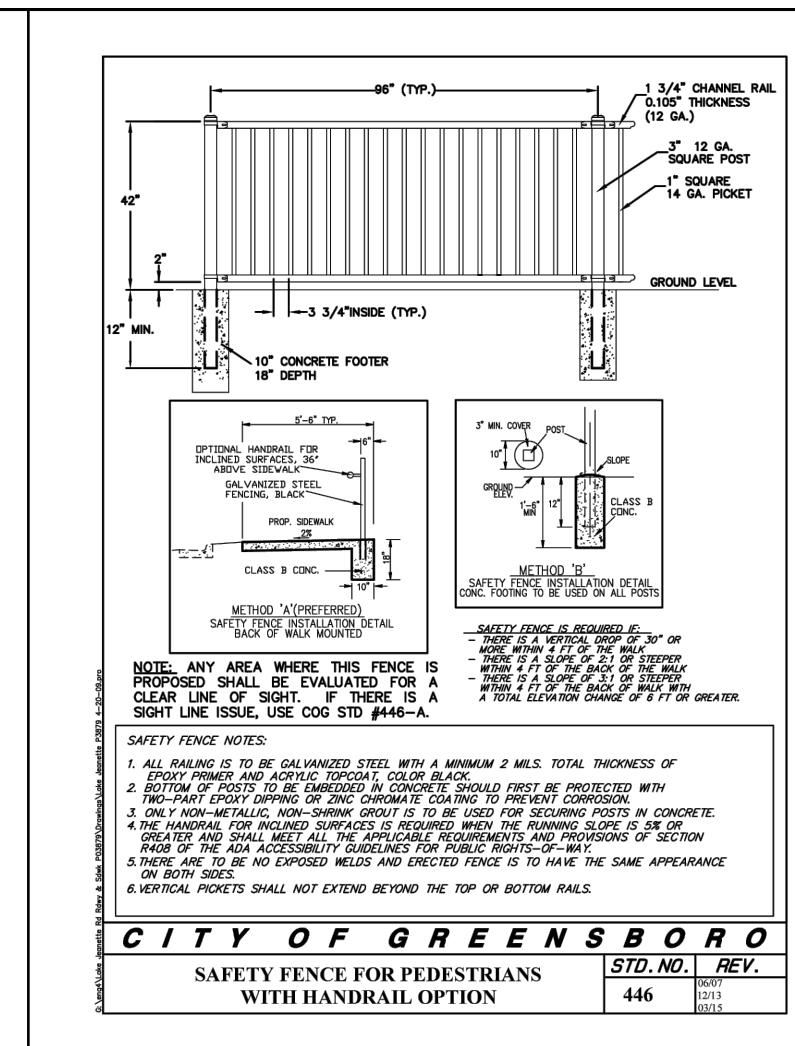
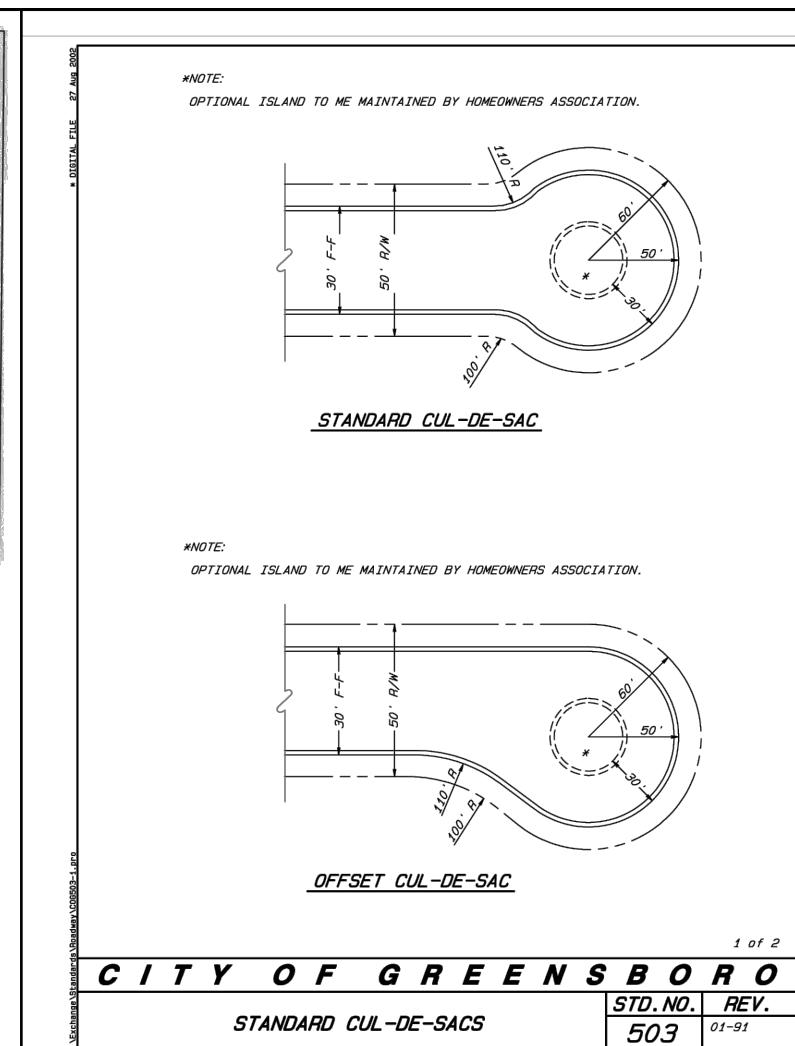
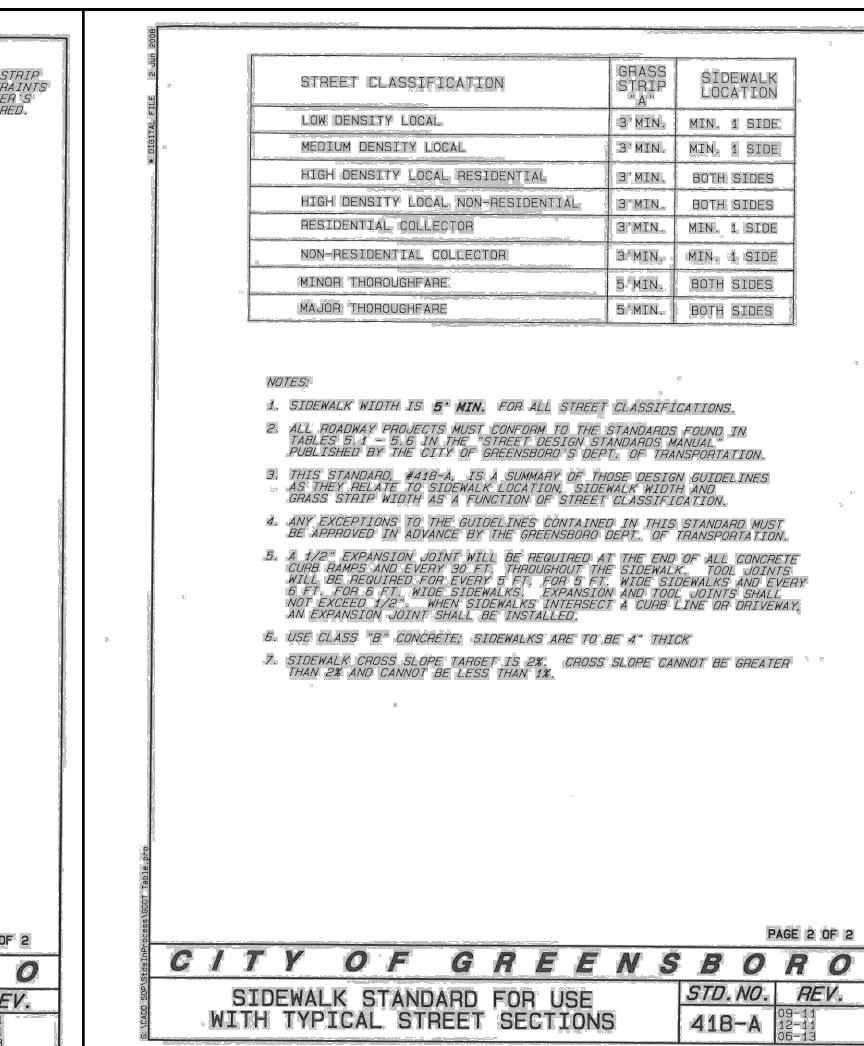
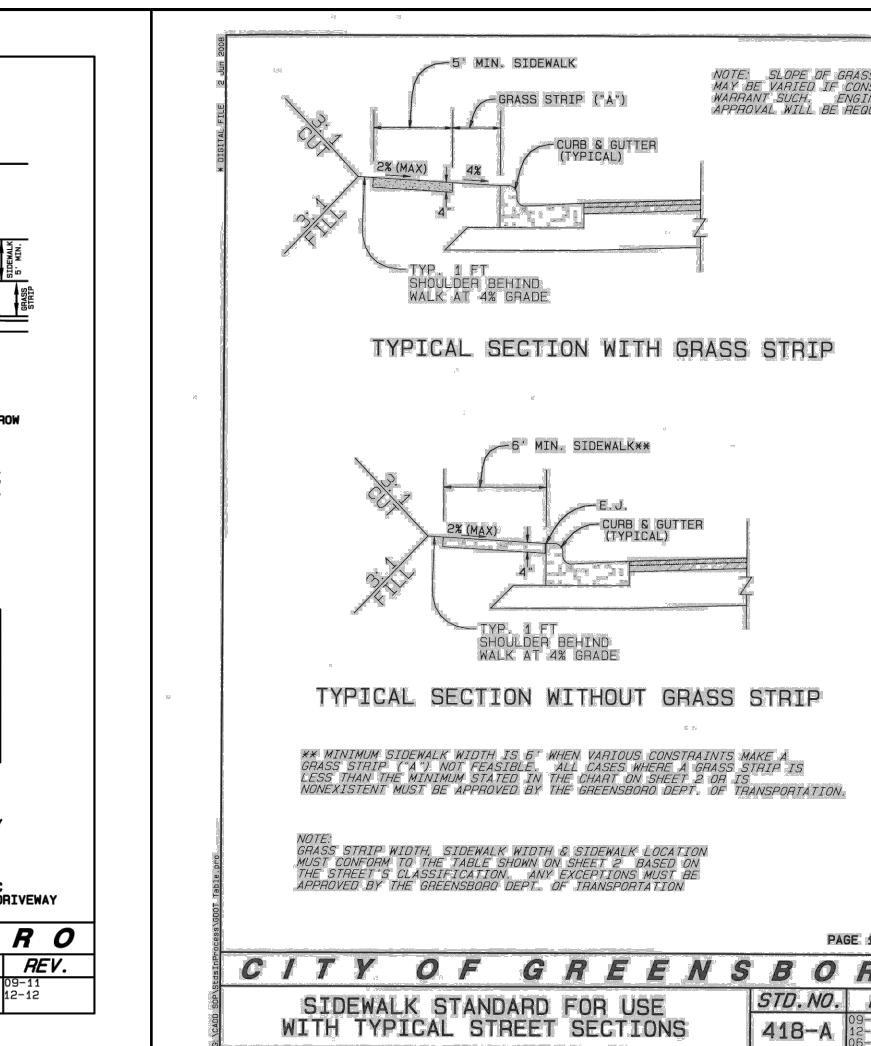
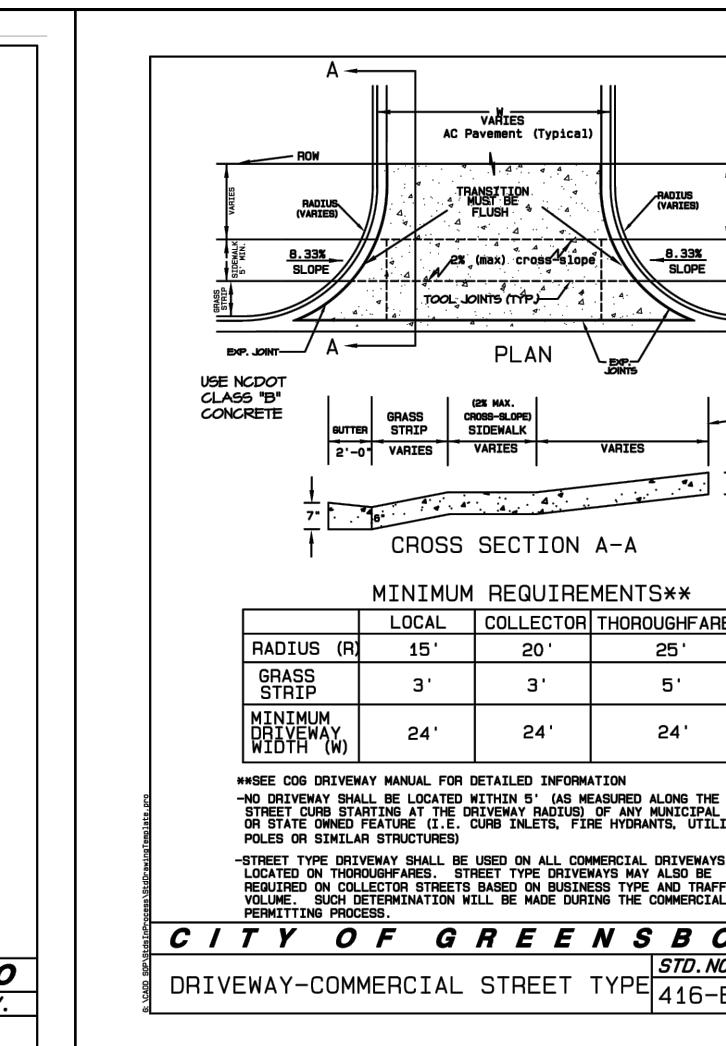
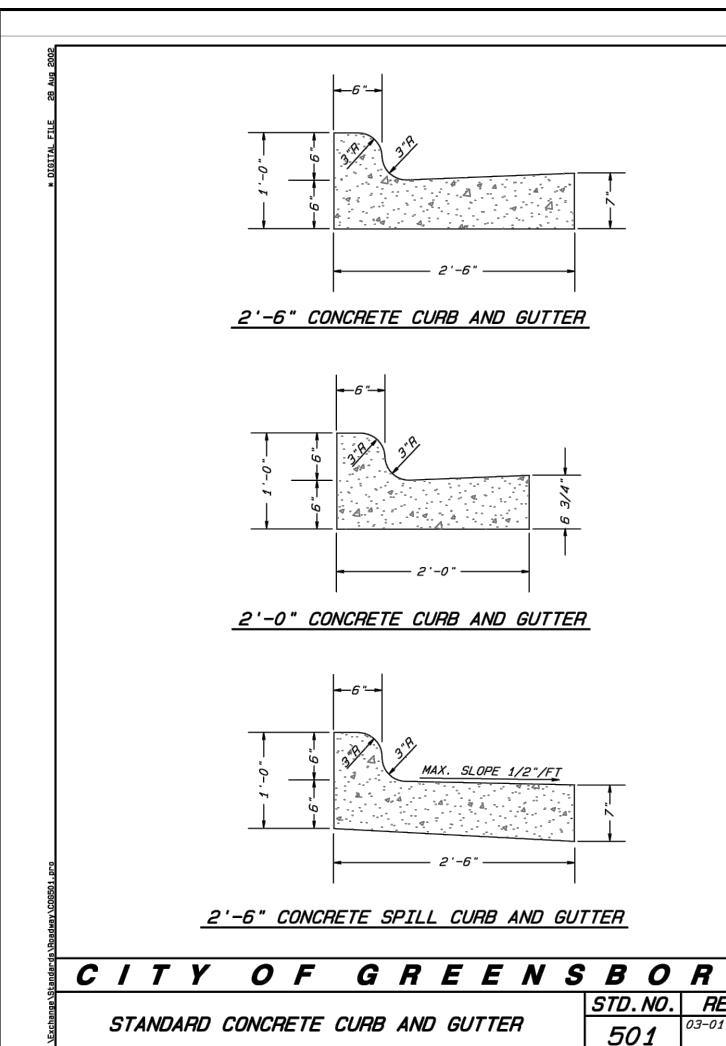
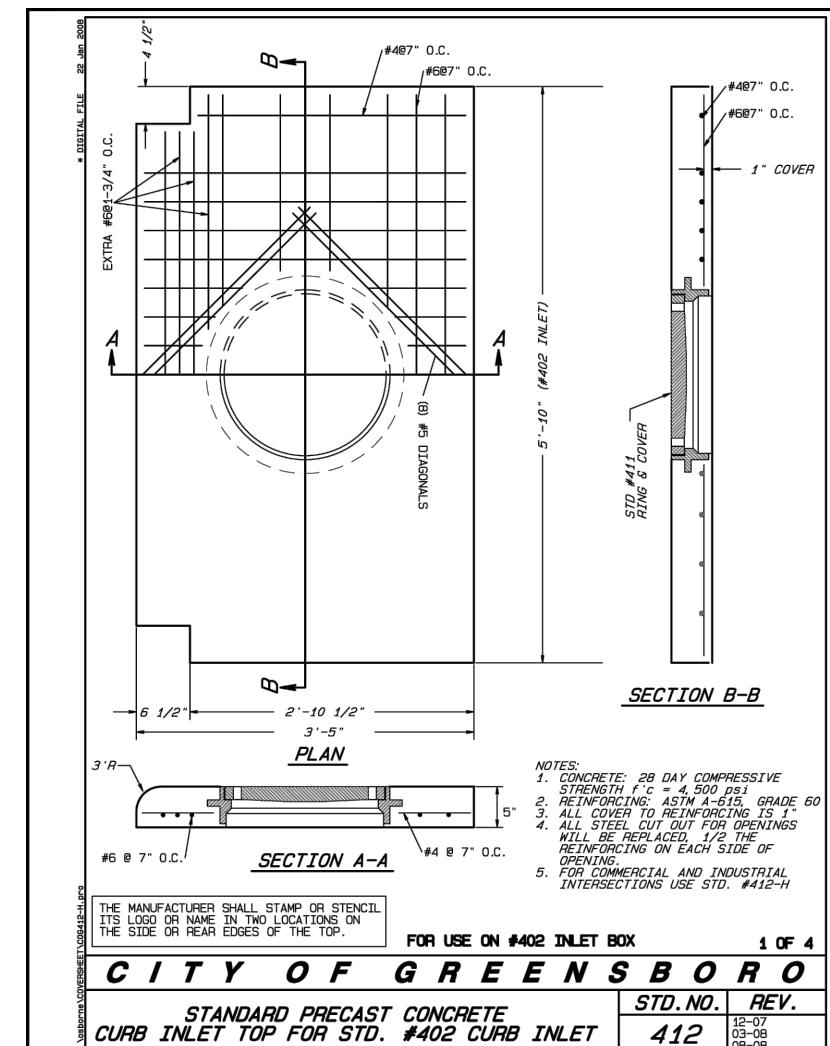
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GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT						
<p>Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant 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.</p>						
SECTION E: GROUND STABILIZATION						
Required Ground Stabilization Timeframes						
Site 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				
<p>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.</p>						
GROUND STABILIZATION SPECIFICATION						
<p>Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the techniques in the table below:</p> <table border="1"> <thead> <tr> <th>Temporary Stabilization</th> <th>Permanent Stabilization</th> </tr> </thead> <tbody> <tr> <td> <ul style="list-style-type: none"> 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 </td> <td> <ul style="list-style-type: none"> 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 </td> </tr> </tbody> </table>			Temporary Stabilization	Permanent Stabilization	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> 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
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POLYACRYLAMIDES (PAMS) AND FLOCCULANTS						
<ol style="list-style-type: none"> Select flocculants that are appropriate for the soils being exposed during construction, selecting from the <i>NC DWR List of Approved PAMS/Flocculants</i>. Apply flocculants at or before the inlets to Erosion and Sediment Control Measures. Apply flocculants at the concentrations specified in the <i>NC DWR List of Approved PAMS/Flocculants</i> and in accordance with the manufacturer's instructions. Provide ponding area for containment of treated Stormwater before discharging offsite. Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures. 						
EQUIPMENT AND VEHICLE MAINTENANCE						
<ol style="list-style-type: none"> 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 project. 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. 						
LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE						
<ol style="list-style-type: none"> 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. On business days, clean up and dispose of waste in designated waste containers. 						
PAINT AND OTHER LIQUID WASTE						
<ol style="list-style-type: none"> 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. Containment must be labeled, sized and placed appropriately for the needs of site. Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites. 						
PORTABLE TOILETS						
<ol style="list-style-type: none"> 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						
<ol style="list-style-type: none"> 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 available. 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. 						
ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER						
<p>SECTION A-A 1. ACTUAL LOCATION DETERMINED IN FIELD 2. THE CONCRETE WASHOUT STRUCTURE SHALL BE LOCATED AS SHOWN IN THE PLAN. THE SOIL REACHES THE TOP OF THE STRUCTURE CAPACITY. 3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH STORMWATER HOPPER.</p> <p>PLAN</p> <p>SECTION B-B 4. THE CONCRETE WASHOUT STRUCTURE IS TO BE LOCATED AS SHOWN IN THE PLAN. THE SOIL REACHES THE TOP OF THE STRUCTURE CAPACITY TO PROVIDE ADEQUATE DEPTH FOR THE CONCRETE. THE SOIL IS TO BE DUG A MINIMUM OF 12 INCHES DEEPLY. 5. THE CONCRETE WASHOUT STRUCTURE IS TO BE LOCATED AS SHOWN IN THE PLAN. THE SOIL REACHES THE TOP OF THE STRUCTURE CAPACITY TO PROVIDE ADEQUATE DEPTH FOR THE CONCRETE. THE SOIL IS TO BE DUG A MINIMUM OF 12 INCHES DEEPLY. 6. THE CONCRETE WASHOUT STRUCTURE IS TO BE LOCATED AS SHOWN IN THE PLAN. THE SOIL REACHES THE TOP OF THE STRUCTURE CAPACITY TO PROVIDE ADEQUATE DEPTH FOR THE CONCRETE. THE SOIL IS TO BE DUG A MINIMUM OF 12 INCHES DEEPLY. 7. 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PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING																							
<p>SECTION A: SELF-INSPECTION</p> <p>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.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 5px;">Inspect</th> <th style="text-align: left; padding: 5px;">Frequency (during normal business hours)</th> <th style="text-align: left; padding: 5px;">Inspection records must include:</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">(1) Rain gauge maintained in good working order</td> <td style="padding: 5px;">Daily</td> <td style="padding: 5px;"> <p>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.</p> </td> </tr> <tr> <td style="padding: 5px;">(2) E&SC Measures</td> <td style="padding: 5px;">At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours</td> <td style="padding: 5px;"> <ol style="list-style-type: none"> 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. </td> </tr> <tr> <td style="padding: 5px;">(3) Stormwater discharge outfalls (SDOs)</td> <td style="padding: 5px;">At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours</td> <td style="padding: 5px;"> <ol style="list-style-type: none"> 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. </td> </tr> <tr> <td style="padding: 5px;">(4) Perimeter of site</td> <td style="padding: 5px;">At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours</td> <td style="padding: 5px;"> <p>If visible sedimentation is found outside site limits, then a record of the following shall be made:</p> <ol style="list-style-type: none"> 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. 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<p>SECTION B: RECORDKEEPING</p> <p>1. E&SC Plan Documentation</p> <p>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 documented in the manner described:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 5px;">Item to Document</th> <th style="text-align: left; padding: 5px;">Documentation Requirements</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">(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.</td> <td style="padding: 5px;"> <p>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.</p> </td> </tr> <tr> <td style="padding: 5px;">(b) A phase of grading has been completed.</td> <td style="padding: 5px;"> <p>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.</p> </td> </tr> <tr> <td style="padding: 5px;">(c) Ground cover is located and installed in accordance with the approved E&SC Plan.</td> <td style="padding: 5px;"> <p>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.</p> </td> </tr> <tr> <td style="padding: 5px;">(d) The maintenance and repair requirements for all E&SC Measures have been performed.</td> <td style="padding: 5px;"> <p>Complete, date and sign an inspection report.</p> </td> </tr> <tr> <td style="padding: 5px;">(e) Corrective actions have been taken to E&SC Measures.</td> <td style="padding: 5px;"> <p>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.</p> </td> </tr> </tbody> </table> <p>2. Additional Documentation</p> <p>In addition to the E&SC Plan documents above, the following items shall be kept on the site and available for agency inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:</p> <ol style="list-style-type: none"> (a) This general permit as well as the certificate of coverage, after it is received. (b) Records of inspections made during the previous 30 days. 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. (c) All data used to complete the Notice of Intent and older inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41] 			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.	<p>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.</p>	(b) A phase of grading has been completed.	<p>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.</p>	(c) Ground cover is located and installed in accordance with the approved E&SC Plan.	<p>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.</p>	(d) The maintenance and repair requirements for all E&SC Measures have been performed.	<p>Complete, date and sign an inspection report.</p>	(e) Corrective actions have been taken to E&SC Measures.	<p>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.</p>									
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<p>SECTION C: REPORTING</p> <p>1. Occurrences that must be reported</p> <p>Permittees shall report the following occurrences:</p> <ol style="list-style-type: none"> (a) Visible sediment deposition in a stream or wetland. (b) Oil spills if: <ul style="list-style-type: none"> • 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). (a) 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. (b) Anticipated bypasses and unanticipated bypasses. (c) Noncompliance with the conditions of this permit that may endanger health or the environment. <p>2. Reporting Timeframes and Other Requirements</p> <p>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 Division's Emergency Response personnel at (800) 662-7956, (800) 858-0368 or (919) 733-3300.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 5px;">Occurrence</th> <th style="text-align: left; padding: 5px;">Reporting Timeframes (After Discovery) and Other Requirements</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">(a) Visible sediment deposition in a stream or wetland</td> <td style="padding: 5px;"> <ul style="list-style-type: none"> • 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. 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PRELIMINARY
APRIL 1, 2025
FOR REVIEW
ONLY

NOT FOR
ONSTRUCTION

HAULIN' ENGINEER

33859 BATTLEGROUND AVE, SUITE 300
GREENSBORO, NC 27410
PHONE (336) 286-3350
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