

GENERAL NOTES:

#6- Correct the conflicting notes

#7- Sheet not included in set

- A. ALL TREE PROTECTION FENCING SHALL BE MAINTAINED UNTIL ALL SITE WORK IS COMPLETED. THE FENCING SHALL BE REMOVED PRIOR TO THE FINAL SITE INSPECTION FOR THE CERTIFICATE OF OCCUPANCY (CO).
B. ALL TREE PROTECTION FENCING SHALL BE MAINTAINED UNTIL ALL SITE WORK IS COMPLETED. THE FENCING SHALL REMAIN UNTIL ISSUANCE OF CERTIFICATE OF OCCUPANCY (CO).
C. WITHIN THE SIGHT TRIANGLES SHOWN ON ALL SITE PLAN AND LANDSCAPE PLAN SHEETS, NO OBSTRUCTION BETWEEN 2 FEET AND 8 FEET IN HEIGHT ABOVE THE CURB LINE ELEVATION SHALL BE LOCATED IN WHOLE OR PART. OBSTRUCTIONS INCLUDE, BUT ARE NOT LIMITED TO, ANY BERM, FOLIAGE, FENCE, WALL SIGN, PARKED CAR, OR OTHER OBJECT. ALL STREET TREES FALLING WITHIN THE SIGHT TRIANGLES SHOWN ON THIS PLAN SHALL BE LIMBED UP BETWEEN 2 FEET AND 8 FEET IN HEIGHT ABOVE THE CURB LINE ELEVATION.
D. MINIMUM CORNER CLEARANCE FROM THE CURB LINE OF INTERSECTING STREETS SHALL BE AT LEAST 20 FEET FROM THE POINT OF TANGENCY OF THE CURB. NO DRIVEWAYS SHALL ENCR OACH ON THIS MINIMUM CORNER CLEARANCE.
E. ALL STREETS SHOWN ON THESE PLANS HAVE FULL WIDTH OF RIGHT-OF-WAY CLEARED AND GRADED WITHIN 50 FEET OF ALL STREET INTERSECTIONS. THE FULL WIDTH OF RIGHT-OF-WAY SHALL BE CLEARED AND GRADED ALONG ALL MAJOR, MINOR AND SENSITIVE AREA THROUGHOUT THE PROJECT. WHEEL CHAIR ACCESS RAMP S WILL BE PROVIDED IN ACCORDANCE WITH STANDARD DRAWING SHOWN ON SHEET CD19. WHERE SIDEWALK IS NOT REQUIRED ALONG THE PUBLIC RIGHT-OF-WAY, CURB IS TO BE DEPRESSED AT ALL RAMP LOCATIONS SHOWN ON THE STANDARD DETAIL.
G. ALL INDIVIDUAL LOTS SHALL HAVE AN EROSION CONTROL PLAN SUBMITTED PRIOR TO CONSTRUCTION OF HOUSES THERE UPON. IF MULTIPLE LOTS WITH A TOTAL DISTURBED AREA OF MORE THAN 12,000 SF ARE TO BE BUILT UPON AT ONE TIME, A COORDINATED EROSION CONTROL PLAN SHALL BE SUBMITTED.
H. ALL PUBLIC WATER AND SEWER MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF RALEIGH STANDARDS AND SPECIFICATIONS.
I. CONTRACTOR SHALL CONTACT NORTH CAROLINA ONE CALL (1-800-632-4949) TO LOCATE ALL EXISTING UTILITIES PRIOR TO THE START OF CONSTRUCTION.
J. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF THE EXISTING UTILITIES AND NOTIFY THE PROJECT ENGINEER (919-469-1101) OF ANY CONFLICTS.
K. ALL BOUNDARY AND FIELD TOPOGRAPHY PROVIDED BY WITHERS & RAVENEL.
L. PHASE LINES SHOWN ARE SPECIFICALLY FOR ESTABLISHING LOTS THROUGH PLATTING PROCESS.

STANDARD UTILITY NOTES (AS APPLICABLE):

- 1. ALL MATERIALS & CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH CITY OF RALEIGH DESIGN STANDARDS, DETAILS & SPECIFICATIONS (REFERENCE: CORPUD HANDBOOK, CURRENT EDITION)
2. UTILITY SEPARATION REQUIREMENTS:
A) A DISTANCE OF 100' SHALL BE MAINTAINED BETWEEN SANITARY SEWER & ANY PRIVATE OR PUBLIC WATER SUPPLY SOURCE SUCH AS AN IMPOUNDED RESERVOIR USED AS A SOURCE OF DRINKING WATER. IF ADEQUATE LATERAL SEPARATION CANNOT BE ACHIEVED, FERROUS SANITARY SEWER PIPE SHALL BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS. HOWEVER, THE MINIMUM SEPARATION SHALL NOT BE LESS THAN 25' FROM A PRIVATE WELL OR 50' FROM A PUBLIC WELL
B) WHEN INSTALLING WATER &/OR SEWER MAINS, THE HORIZONTAL SEPARATION BETWEEN UTILITIES SHALL BE 10'. IF THIS SEPARATION CANNOT BE MAINTAINED DUE TO EXISTING CONDITIONS, THE VARIATION ALLOWED IS THE WATER MAIN IN A SEPARATE TRENCH WITH THE ELEVATION OF THE WATER MAIN AT LEAST 18" ABOVE THE TOP OF THE SEWER & MUST BE APPROVED BY THE PUBLIC UTILITIES DIRECTOR. ALL DISTANCES ARE MEASURED FROM OUTSIDE DIAMETER TO OUTSIDE DIAMETER
C) WHERE IT IS IMPOSSIBLE TO OBTAIN PROPER SEPARATION, OR ANYTIME A SANITARY SEWER PASSES OVER A WATERMAIN, DIP MATERIALS OR STEEL ENCASEMENT EXTENDED 10' ON EACH SIDE OF CROSSING MUST BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS
D) 5.0' MINIMUM HORIZONTAL SEPARATION IS REQUIRED BETWEEN ALL SANITARY SEWER & STORM SEWER FACILITIES, UNLESS DIP MATERIAL IS SPECIFIED FOR SANITARY SEWER MAINTAIN 18" MIN. VERTICAL SEPARATION AT ALL WATERMAIN & RCP STORM DRAIN CROSSINGS; MAINTAIN 24" MIN. VERTICAL SEPARATION AT ALL SANITARY SEWER & RCP STORM DRAIN CROSSINGS. WHERE ADEQUATE SEPARATIONS CANNOT BE ACHIEVED, SPECIFY DIP MATERIALS & A CONCRETE CRADLE HAVING 6" MIN. CLEARANCE (PER CORPUD DETAILS W-41 & A-9)
E) ALL OTHER UNDERGROUND UTILITIES SHALL CROSS WATER & SEWER FACILITIES WITH 18" MIN. VERTICAL SEPARATION REQUIRED
3. ANY NECESSARY FIELD REVISIONS ARE SUBJECT TO REVIEW & APPROVAL OF AN AMENDED PLAN &/OR PROFILE BY THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT PRIOR TO CONSTRUCTION
4. CONTRACTOR SHALL MAINTAIN CONTINUOUS WATER & SEWER SERVICE TO EXISTING RESIDENCES & BUSINESSES THROUGHOUT CONSTRUCTION OF PROJECT. ANY NECESSARY SERVICE INTERRUPTIONS SHALL BE PRECEDED BY A 24 HOUR ADVANCE NOTICE TO THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT
5. 3.0' MINIMUM COVER IS REQUIRED ON ALL WATER MAINS & SEWER FORCE MAINS. 4.0' MINIMUM COVER IS REQUIRED ON ALL REEZE MAINS
6. IT IS THE DEVELOPER'S RESPONSIBILITY TO ABANDON OR REMOVE EXISTING WATER & SEWER SERVICES NOT BEING USED IN REDEVELOPMENT OF A SITE UNLESS OTHERWISE DIRECTED BY THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT. THIS INCLUDES ABANDONING TAP AT MAIN & REMOVAL OF SERVICE FROM ROW OR EASEMENT PER CORPUD HANDBOOK PROCEDURE
7. INSTALL 3/4" COPPER* WATER SERVICES WITH METERS LOCATED AT ROW OR WITHIN A 2'X2' WATERLINE EASEMENT IMMEDIATELY ADJACENT. NOTE: IT IS THE APPLICANT'S RESPONSIBILITY TO PROPERLY SIZE THE WATER SERVICE FOR EACH CONNECTION TO PROVIDE ADEQUATE FLOW & PRESSURE
8. INSTALL 4" PVC* SEWER SERVICES @ 1.0% MINIMUM GRADE WITH CLEANOUTS LOCATED AT ROW OR EASEMENT LINE & SPACED EVERY 75 LINEAR FEET MAXIMUM
9. PRESSURE REDUCING VALVES ARE REQUIRED ON ALL WATER SERVICES EXCEEDING 80 PSI; BACKWATER VALVES ARE REQUIRED ON ALL SANITARY SEWER SERVICES HAVING BUILDING DRAINS LOWER THAN 1.0' ABOVE THE NEXT UPSTREAM MANHOLE
10. ALL ENVIRONMENTAL PERMITS APPLICABLE TO THE PROJECT MUST BE OBTAINED FROM NCDWQ, USACE &/OR FEMA FOR ANY RIPARIAN BUFFER, WETLAND &/OR FLOODPLAIN IMPACTS (RESPECTIVELY) PRIOR TO CONSTRUCTION.
11. NCDOT / RAILROAD ENCROACHMENT AGREEMENTS ARE REQUIRED FOR ANY UTILITY WORK (INCLUDING MAIN EXTENSIONS & SERVICE TAPS) WITHIN STATE OR RAILROAD ROW PRIOR TO CONSTRUCTION
12. GREASE INTERCEPTOR / OIL WATER SEPARATOR SIZING CALCULATIONS & INSTALLATION SPECIFICATIONS SHALL BE APPROVED BY THE CORPUD FOG PROGRAM COORDINATOR PRIOR TO ISSUANCE OF A BUILDING PERMIT.
13. CROSS-CONNECTION CONTROL PROTECTION DEVICES ARE REQUIRED BASED ON DEGREE OF HEALTH HAZARD INVOLVED AS LISTED IN APPENDIX B OF THE RULES GOVERNING PUBLIC WATER SYSTEMS IN NORTH CAROLINA. THESE GUIDELINES ARE THE MINIMUM REQUIREMENTS. THE DEVICES SHALL MEET AMERICAN SOCIETY OF SANITARY ENGINEERING (ASSE) STANDARDS OR BE ON THE UNIVERSITY OF SOUTHERN CALIFORNIA APPROVAL THE DEVICES SHALL BE INSTALLED AND TESTED (BOTH INITIAL AND PERIODIC TESTING THEREAFTER) IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS OR THE LOCAL CROSS-CONNECTION CONTROL PROGRAM, WHICHEVER IS MORE STRINGENT.

NOTES FOR CONSTRUCTION:

- 1. PLANS FOR INFRASTRUCTURE ONLY.
2. ALL CONSTRUCTION MUST BE PERFORMED IN ACCORDANCE WITH CURRENT CITY OF RALEIGH STANDARD SPECS AND DETAILS, WAKE COUNTY SPECIFICATIONS, NCDOT SPECIFICATIONS AND TOWN OF ROLESVILLE SPECIFICATIONS.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF EXISTING CONDITIONS. CONTRACTOR SHALL NOTIFY ENGINEER OF DISCREPANCIES BETWEEN FIELD CONDITIONS AND THESE DRAWINGS.
4. THERE ARE NO 100 YEAR FLOOD PLAINS PER FEMA MAP WITHIN PROPERTY.
5. CONTRACTOR WILL KEEP STREETS CLEAN AT ALL TIMES, OR A WASH STATION WILL BE REQUIRED.
6. ALL CATCH BASINS SHALL HAVE INLET PROTECTION.
7. ALL CUT AND FILL SLOPES MUST BE STABILIZED WITHIN 14 DAYS OF ANY PHASE OF GRADING, WITH SOME SLOPES TO BE STABILIZED WITHIN 7 DAYS AS SHOWN ON CHART TO THE LEFT AND ON THE EC SHEETS.
8. TREE PROTECTION FENCING ON THIS PROJECT WILL BE INSTALLED AND INSPECTED BEFORE THE GRADING PERMIT IS ISSUED.
9. A PRE-CONSTRUCTION CONFERENCE MAY BE REQUIRED BEFORE GRADING PERMIT IS ISSUED. PERMANENT GROUND COVER WILL BE ESTABLISHED IN 15 WORKING DAYS OR 90 CALENDAR DAYS WHICHEVER IS SHORTER.
10. THE AREA DESIGNATED SHALL BE USED FOR TOPSOIL STOCKPILE.
11. THIS PROJECT IS IN THE NEUSE RIVER WATERSHED.
12. WETLANDS ON THIS PROJECT ARE AS SHOWN.
13. MINIMUM CORNER CLEARANCE FROM THE CURB LINE OF INTERSECTING STREETS SHALL BE AT LEAST TWENTY (20) FEET FROM THE POINT OF TANGENCY.

EROSION & SEDIMENT CONTROL NOTES:

STAGE 1 E&SC CONSTRUCTION SEQUENCE:

- 1. THE OWNER SHALL OBTAIN NCG01 PERMIT AND PAY ANY FEE THAT MAYBE ASSOCIATED WITH THIS PERMIT.
2. SCHEDULE A PRE-CONSTRUCTION CONFERENCE WITH THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY (NCDEQ)/TOWN OF ROLESVILLE, OBTAIN LAND DISTURBING PERMIT.
3. ENSURE THAT ALL LIMITS OF DISTURBANCE, SURFACE WATERS, AND RIPARIAN BUFFERS ARE FLAGGED PRIOR TO INSTALLATION OF EROSION CONTROL MEASURES. WETLANDS PRESENT ON SITE ARE NOT TO BE IMPACTED DURING CONSTRUCTION ACTIVITIES.
4. TREE PROTECTION FENCES, SILT FENCES AND CONSTRUCTION ENTRANCES SHALL BE INSTALLED AS SHOWN ON THE EROSION CONTROL PLANS. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES INCLUDING STOCKPILE LOCATIONS. STOCKPILE LOCATIONS SHOULD BE ENCLOSED BY SILT FENCE AS SHOWN ON THE PLANS. SEED ALL RESULTING BARE AREAS IMMEDIATELY AFTER CONSTRUCTION.
5. CONSTRUCT SCMs #1-#5 AS SEDIMENT BASINS BY OMITTING FOREBAY DIVIDERS AND CONNECTING SKIMMERS TO THE DRAINPIPE, THE FINAL PIPE AND STRUCTURE FOR EACH POND IS TO BE INSTALLED WITH STAGE 1 EROSION CONTROL AND SERVE THE TEMPORARY SEDIMENT BASINS AND ACT AS INLETS FOR THE TEMPORARY DIVERSION DITCHES. SEE EROSION AND SEDIMENT CONTROL PLANS FOR MORE DETAIL. FOLLOWING THE COMPLETION OF THE INITIAL CONSTRUCTION STAGE, THE INLET STRUCTURES MUST BE CLEANED AND HAVE INLET PROTECTION INSTALLED AS SHOWN ON THE STAGE 2 EROSION AND SEDIMENT CONTROL PLANS. THE SEDIMENT BASINS SHALL BE FULLY CONSTRUCTED PRIOR TO THE INSTALLATION OF ANY TEMPORARY DIVERSION DITCHES.
6. CONTRACTOR TO INSTALL BRIDGEMAT AS SHOWN ON EROSION AND SEDIMENT CONTROL PLANS FOR CREEK CROSSING. SEE SHEET C8.5 FOR DETAILED CREEK CROSSING CONSTRUCTION SEQUENCE.
7. CALL FOR INSPECTION BY NCDEQ/TOWN OF ROLESVILLE FOR APPROVAL BEFORE PROCEEDING TO STAGE 2 CONSTRUCTION.
8. ADDITIONAL MEASURES OR DITCH EXTENSIONS MAY BE REQUIRED BY THE NCDEQ/TOWN OF ROLESVILLE EROSION CONTROL FIELD INSPECTOR TO ROUTE RUNOFF TO SEDIMENT BASINS BASED ON FIELD CONDITIONS AND THESE MEASURES SHALL BE INSTALLED UPON THE INSPECTOR'S DETERMINATION.

STAGE 2 E&SC CONSTRUCTION SEQUENCE:

- 1. GENERAL SITE GRADING MAY BEGIN.
2. INSTALL STORM DRAINAGE PIPE SYSTEMS.
3. AS EACH CATCH BASIN OR YARD INLET IS INSTALLED, IT SHALL HAVE INLET PROTECTION INSTALLED. THIS IS TO REMAIN IN PLACE UNTIL THE DRAINAGE AREA(S) HAVE BEEN STABILIZED OR PAVED.
4. CLEAN SEDIMENT BASINS WHEN ONE-HALF FULL.
5. SEED AND MULCH DENUDED AREA INCLUDING ANY CUT/FILL SLOPES WITHIN FOURTEEN (14) DAYS AFTER FINISHED GRADES ARE ESTABLISHED.
6. MAINTAIN SOIL EROSION CONTROL MEASURES UNTIL PERMANENT GROUND IS ESTABLISHED.
7. UTILITIES (WATER, ELECTRIC, GAS, CABLE TV, TELEPHONE, ETC.) WILL BE INSTALLED DURING THIS PHASE.
8. WHEN ALL CONTRIBUTORY AREAS ARE STABILIZED, OBTAIN APPROVAL FROM THE NCDEQ/TOWN OF ROLESVILLE TO CONVERT THE SEDIMENT BASINS (SB) TO PERMANENT STORMWATER CONTROL MEASURES (SCM). SEE RECOMMENDED INSTRUCTIONS TO CONVERT SEDIMENT BASINS TO PERMANENT STORMWATER CONTROL MEASURES ON THIS SHEET OF THE PROJECT CONSTRUCTION DRAWINGS.
9. REQUEST APPROVAL BY NCDEQ/TOWN OF ROLESVILLE AFTER VEGETATION IS ESTABLISHED TO REMOVE REMAINING EROSION CONTROL MEASURES.
10. REMOVE REMAINING SOIL EROSION CONTROL MEASURES AND STABILIZE THE RESULTING BARE AREAS. CONTACT NCDEQ/TOWN OF ROLESVILLE TO REQUEST FINAL INSPECTION TO CLOSE LAND DISTURBANCE PERMIT.
11. THE OWNER IS TO FINALIZE THE NCG01 PERMIT.

REQUIRED WAKE COUNTY BASIN REMOVAL SEQUENCE

- 1. SCHEDULE A SITE MEETING WITH THE ENVIRONMENTAL CONSULTANT TO DETERMINE IF A BASIN CAN BE REMOVED. INSTALL SILT FENCING OR OTHER TEMPORARY EROSION CONTROL MEASURES AS NEEDED PRIOR TO REMOVAL OF THE BASIN.
2. REMOVE BASINS) AND ASSOCIATED TEMPORARY DIVERSION DITCHES. IF CULVERT PIPES NEED TO BE EXTENDED, PERFORM THIS OPERATION AT THIS TIME. FINE GRADE AREA IN PREPARATION FOR SEEDING.
3. PERFORM SEEDBED PREPARATION, SEED, MULCH AND ASPHALT TACK ANY RESULTING BARE AREAS IMMEDIATELY.
4. INSTALL VELOCITY DISSIPATORS AND/OR LEVEL SPREADERS AS REQUIRED ON THE EROSION CONTROL PLAN.
5. WHEN SITE IS FULLY STABILIZED, CALL ENVIRONMENTAL CONSULTANT FOR APPROVAL OF REMOVING REMAINING TEMPORARY EROSION CONTROL MEASURES AND ADVICE ON WHEN SITE CAN BE ISSUED A CERTIFICATE OF COMPLETION.

NOTE: A MEETING SHOULD ALSO BE SCHEDULED WITH THE ENVIRONMENTAL CONSULTANT TO DETERMINE WHEN A BASIN MAY BE CONVERTED FOR STORMWATER USE. SOME MUNICIPALITIES MAY ALSO REQUIRE THIS.

SCM CONVERSION SEQUENCE:

- 1. WHEN ALL CONTRIBUTORY AREAS TO THE STORMWATER CONTROL MEASURE (SCM) HAVE BEEN STABILIZED CONTACT THE EROSION CONTROL OFFICER FOR PERMISSION TO CONVERT THE SEDIMENT BASIN (SB) TO A SCM.
2. REMOVE ALL SEDIMENT FROM THE BASIN AND RESTORE GRADES TO DESIGNED CONFIGURATION, IF NEEDED.
3. CONSTRUCT FOREBAY DIVIDERS AS SHOWN ON THE PLANS.
4. REMOVE TEMPORARY BAFFLES FROM THE BASIN.
5. MAKE ANY REPAIRS NECESSARY TO THE OUTLET STRUCTURE, OUTLET PIPE, EMERGENCY OVERFLOW, ETC. EXAMINE RIP-RAP TO SEE IF REFRESHING OR CLEANING OF ROCK IS NECESSARY.
6. INSTALL SHELF PLANTINGS AS SHOWN ON THE PLANS. CHECK THAT ALL SLOPES ARE PROPERLY STABILIZED.
7. BE SURE THAT THE TRASH RACKS ARE IN PLACE AND PROPERLY FUNCTIONING. REMOVE SKIMMER AND CLOSE OUTLET VALVE.
8. CONTACT EROSION CONTROL OFFICER FOR APPROVAL.
9. CONTACT A LICENSED SURVEYOR FOR SURVEY OF AS-BUILT CONDITIONS. NOTIFY ENGINEER-OF-RECORD FOR PREPARATION OF AS-BUILT DRAWINGS.

REQUIRED WAKE COUNTY CONSTRUCTION SEQUENCE*

- 1. SCHEDULE A PRECONSTRUCTION CONFERENCE WITH THE WATERSHED MANGER. OBTAIN A LAND-DISTURBING PERMIT.
2. INSTALL GRAVEL CONSTRUCTION PAD, TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS OR OTHER MEASURES AS SHOWN ON THE APPROVED PLAN. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES. SEED TEMPORARY DIVERSIONS, BERMS AND BASINS IMMEDIATELY AFTER CONSTRUCTION.
3. CALL FOR AN ONSITE INSPECTION BY THE WATERSHED MANAGER TO OBTAIN A CERTIFICATE OF COMPLIANCE.
4. BEGIN CLEARING AND GRUBBING. MAINTAIN DEVICES AS NEEDED. ROUGH GRADE SITE.
5. INSTALL STORM SEWER, IF SHOWN, AND PROTECT INLETS WITH BLOCK AND GRAVEL INLET CONTROLS, SEDIMENT TRAPS OR OTHER APPROVED MEASURES AS SHOWN ON THE PLAN. BEGIN CONSTRUCTION, BUILDING, ETC.
6. STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISH GRADE WITH VEGETATION, PAVING, DITCH LININGS, ETC. SEED AND MULCH DENUDED AREAS PER GROUND STABILIZATION TIME FRAMES.
7. WHEN CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED COMPLETELY, CALL FOR AN INSPECTION BY THE WATERSHED MANAGER.
8. IF SITE IS APPROVED, REMOVE TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS, ETC., AND SEED OUT OR STABILIZE ANY RESULTING BARE AREAS. ALL REMAINING PERMANENT EROSION CONTROL DEVICES, SUCH AS VELOCITY DISSIPATORS, SHOULD NOW BE INSTALLED.
9. WHEN VEGETATION HAS BECOME ESTABLISHED, CALL FOR A FINAL SITE INSPECTION BY THE WATERSHED MANAGER. OBTAIN A CERTIFICATE OF COMPLETION.

STOCKPILE DESIGN CRITERIA

- A. A 25-FOOT TEMPORARY MAINTENANCE AND ACCESS EASEMENT SHALL BE SHOWN AROUND ALL PROPOSED STOCKPILES (EROSION CONTROL MEASURES SURROUNDING THE STOCKPILE SHALL BE SHOWN AT THE OUTER LIMIT OF THIS EASEMENT).
B. STOCKPILE FOOTPRINTS SHALL BE SETBACK A MINIMUM OF 25' FROM ADJACENT PROPERTY LINES.
C. A NOTE SHALL BE PROVIDED ON THE APPROVED PLAN THAT STOCKPILE HEIGHT SHALL NOT EXCEED 35' FEET.
D. STOCKPILE SLOPES SHALL BE 2:1 OR FLATTER.
E. APPROVED BMPS SHALL BE SHOWN ON A PLAN TO CONTROL ANY POTENTIAL SEDIMENT LOSS FROM A STOCKPILE.
F. STOCKPILING MATERIALS ADJACENT TO A DITCH, DRAINAGEWAY, WATERCOURSE, WETLAND, STREAM BUFFER, OR OTHER BODY OF WATER SHALL BE AVOIDED UNLESS AN ALTERNATIVE LOCATION IS DEMONSTRATED TO BE UNAVAILABLE.
G. ANY CONCENTRATED FLOW LIKELY TO AFFECT THE STOCKPILE SHALL BE DIVERTED TO AN APPROVED BMP.
H. OFF-SITE SPOIL OR BORROW AREAS MUST BE IN COMPLIANCE WITH WAKE COUNTY UDO AND STATE REGULATIONS. ALL SPOIL AREAS OVER AN ACRE ARE REQUIRED TO HAVE AN APPROVED SEDIMENT CONTROL PLAN. DEVELOPER/CONTRACTOR SHALL NOTIFY WAKE COUNTY OF ANY OFFSITE DISPOSAL OF SOIL, PRIOR TO DISPOSAL. FILL OF FEMA FLOODWAYS AND NON-ENCROACHMENT AREAS ARE PROHIBITED EXCEPT AS OTHERWISE PROVIDED BY SUBSECTION 14-19-2 OF THE WAKE COUNTY UNIFIED DEVELOPMENT ORDINANCE (CERTIFICATIONS AND PERMITS REQUIRED).

MAINTENANCE REQUIREMENTS TO BE NOTED ON THE PLAN

- I. SEEDING OR COVERING STOCKPILES WITH TARPS OR MULCH IS REQUIRED AND WILL REDUCE EROSION PROBLEMS. TARPS SHOULD BE KEPT IN AT THE TOP OF THE SLOPE TO KEEP WATER FROM RUNNING UNDERNEATH THE PLASTIC.
J. IF A STOCKPILE IS TO REMAIN FOR FUTURE USE AFTER THE PROJECT IS COMPLETE (BUILDERS, ETC.), THE FINANCIAL RESPONSIBLE PARTY MUST NOTIFY WAKE COUNTY OF A NEW RESPONSIBLE PARTY FOR THAT STOCKPILE.
K. THE APPROVED PLAN SHALL PROVIDE FOR THE USE OF STAGED SEEDING AND MULCHING ON A CONTINUAL BASIS WHILE THE STOCKPILE IS IN USE.
L. ESTABLISH AND MAINTAIN A VEGETATIVE BUFFER AT THE TOE OF THE SLOPE (WHERE PRACTICAL).

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

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City of Raleigh Development Approval _____

Raleigh Water Review Officer _____

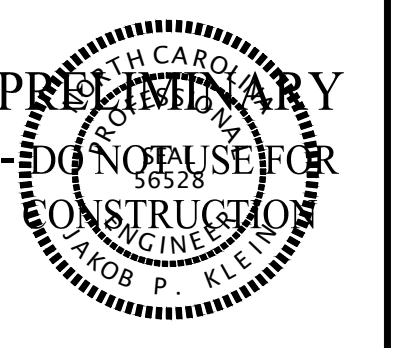
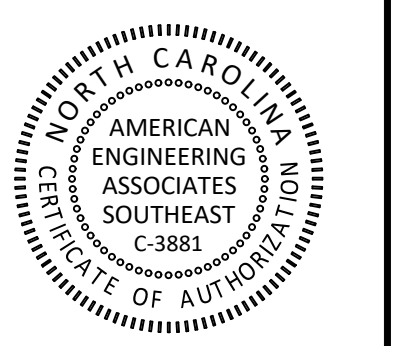


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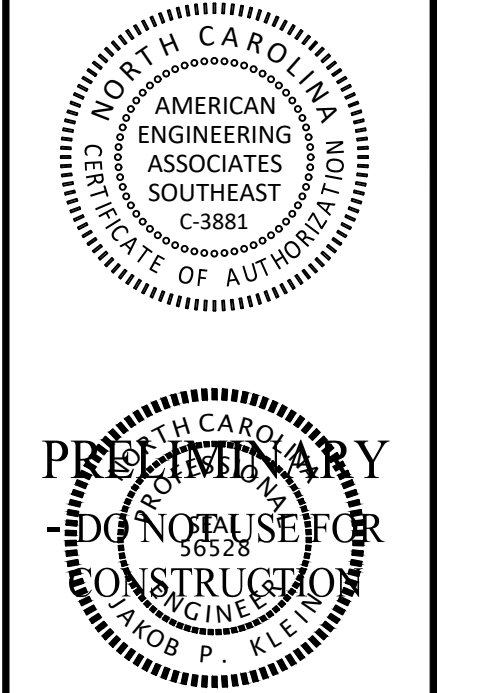
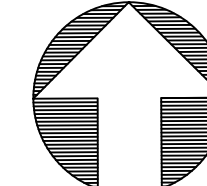
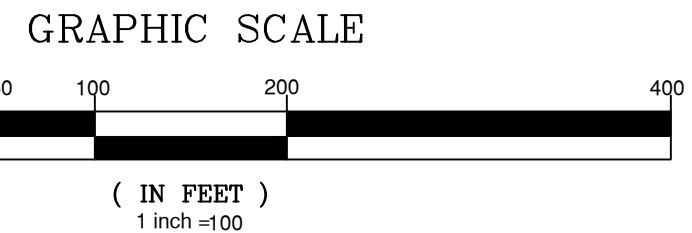
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THE PRESERVE AT MOODY FARM ROLESVILLE ROAD WAKE COUNTY, NC
JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 12/02/2024
SHEET TITLE:
GENERAL NOTES
SHEET NO.:
C2.0



EROSION CONTROL LEGEND	
	EXISTING TOPOGRAPHY
	EXISTING BOUNDARY
	EXISTING WETLANDS AREA
	EXISTING 50' NEUSE RIPERIAN BUFFER
	EXISTING BUFFER ZONES
	PROPOSED LOT LINE
	PROPOSED EASEMENT
	PROPOSED 25 x 50 GRAVEL CONSTRUCTION ENTRANCE
	PROPOSED RIP RAP
	BASIN WEIR
	PROPOSED SEDIMENT BASIN
	PROPOSED INLET PROTECTION
	PROPOSED PIPE INLET PROTECTION
	PROPOSED CHECK DAM
	PROPOSED SF OUTLET
	GREENWAY TRAIL HATCH
	PROPOSED BASIN MAINTENANCE PAD
	PROPOSED WATTLE
	PROPOSED SILT FENCE
	PROPOSED TREE PROTECTION FENCE/LIMITS OF DISTURBANCE
	DIVERSION DITCH DRAINAGE AREA
	PROPOSED DIVERSION DITCH
	PROPOSED JUNCTION BOX
	PROPOSED CATCH BASIN
	PROPOSED YARD INLET
	PROPOSED DROP INLET
	PROPOSED STORM WATER



NO.	DATE	REVISION

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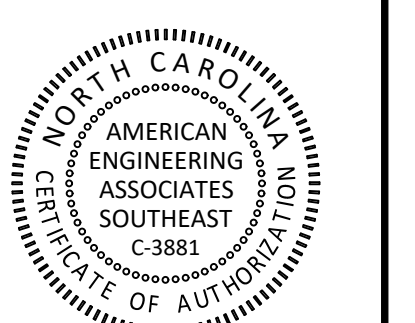
THE PRESERVE AT MOODY FARM
 ROLESVILLE ROAD
 WAKE COUNTY, NC

JOB NUMBER: 21-002
 CHECKED BY: JK
 DRAWN BY: RC & SM
 DATE: 12/02/2024

SHEET TITLE:
OVERALL EC STAGE 2
 SHEET NO.: **C3.5**

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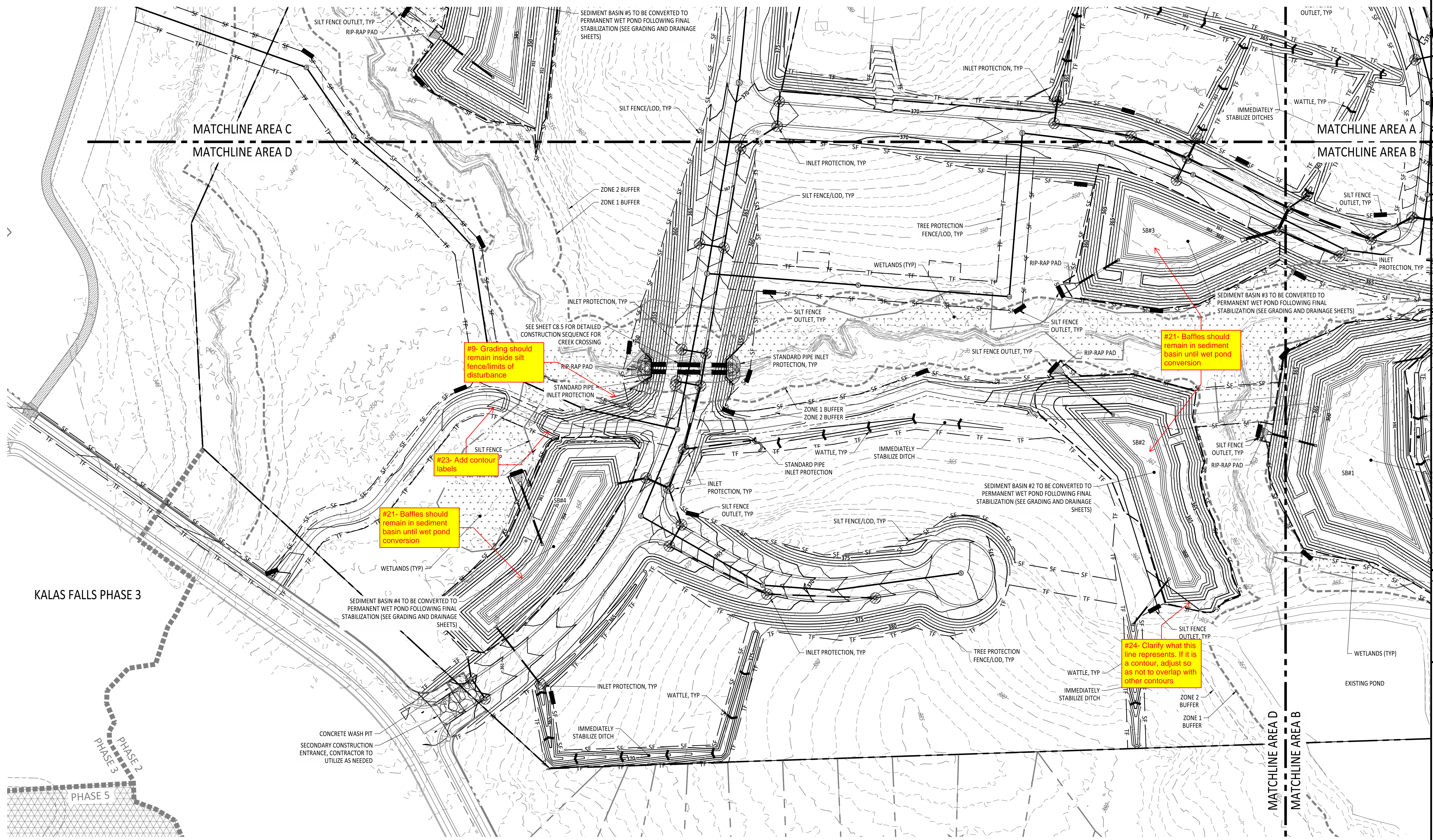
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THE PRESERVE AT MOODY FARM
 ROLESVILLE ROAD
 WAKE COUNTY, NC

JOB NUMBER: 21-002
 CHECKED BY: JK
 DRAWN BY: RC & SM
 DATE: 12/02/2024

SHEET TITLE:
EC STAGE 2 - AREA D
 SHEET NO.:
C3.9



#19- Grading should remain inside silt fence/limits of disturbance

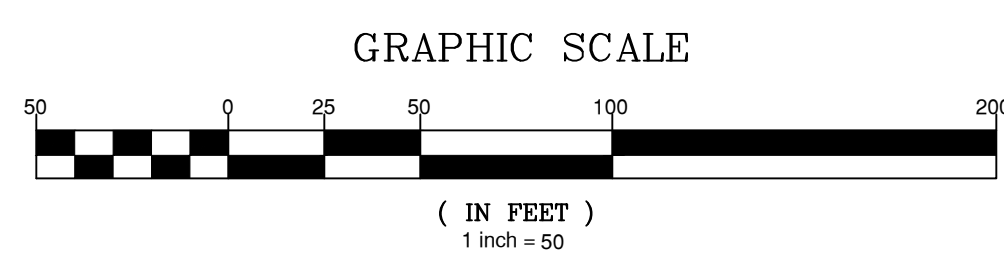
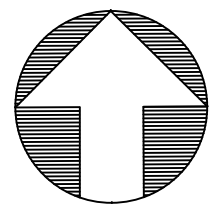
#23- Add contour labels

#21- Baffles should remain in sediment basin until wet pond conversion

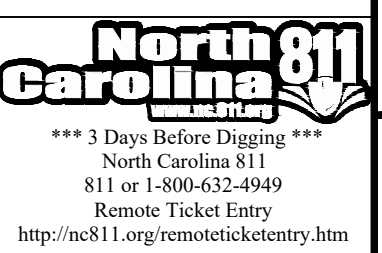
#21- Baffles should remain in sediment basin until wet pond conversion

#24- Clarify what this line represents. If it is a contour, adjust so as not to overlap with other contours

2:\plan\21-002 Moody Development\Task 0212002\Draw\Working\Drawings\Construction\Site\03.9_C3.9_Ecstg2AreaD.dwg
 December 2, 2024

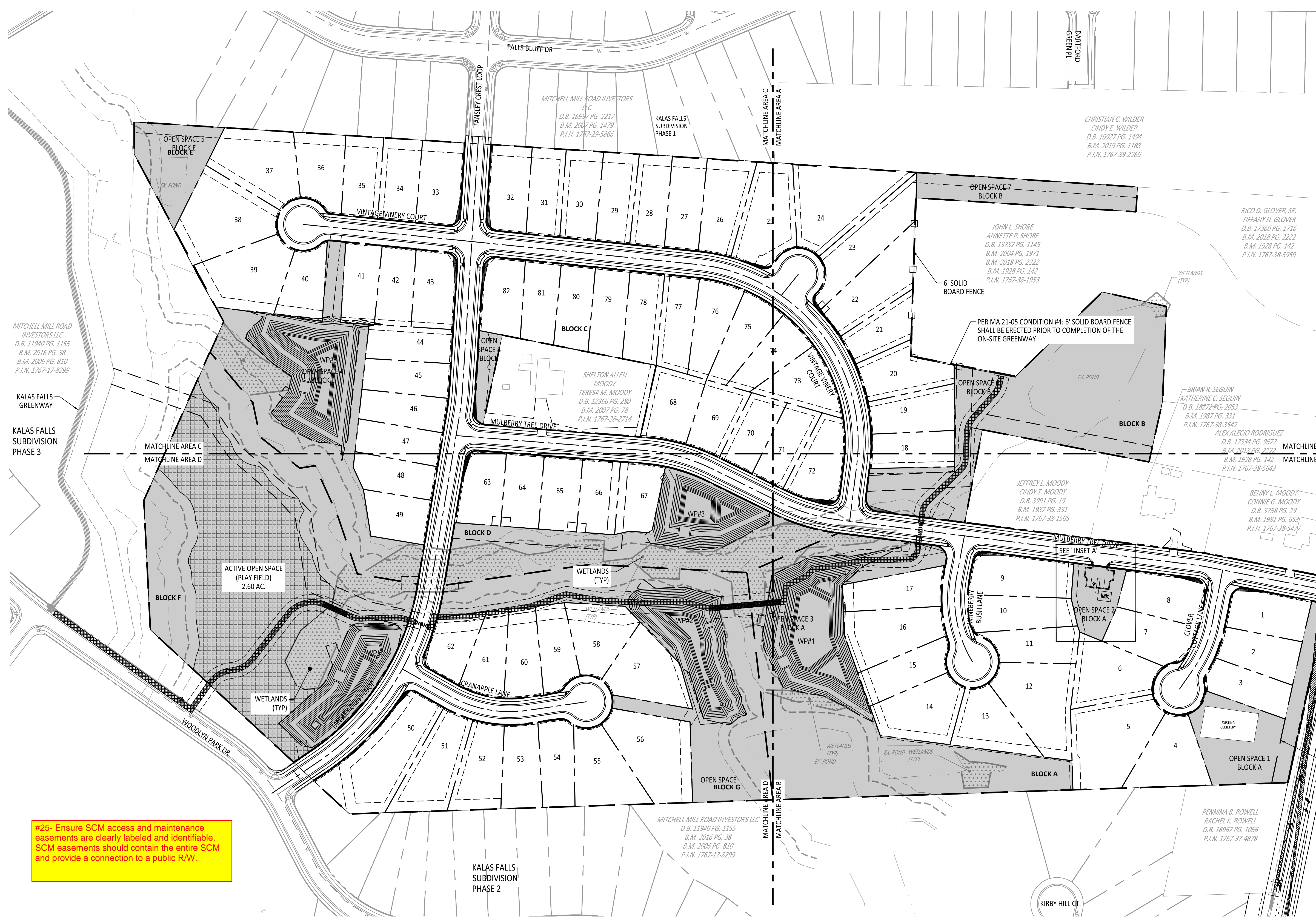
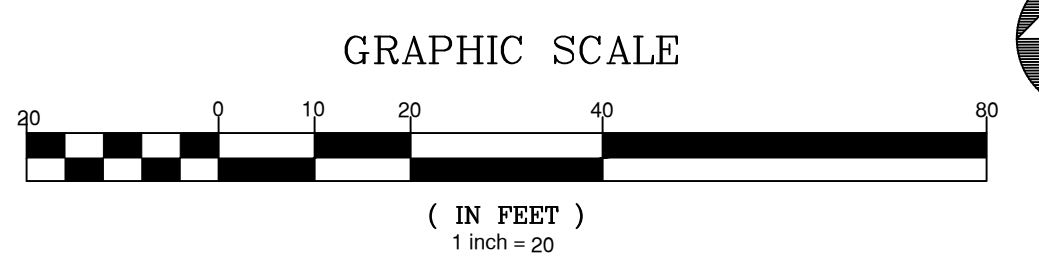
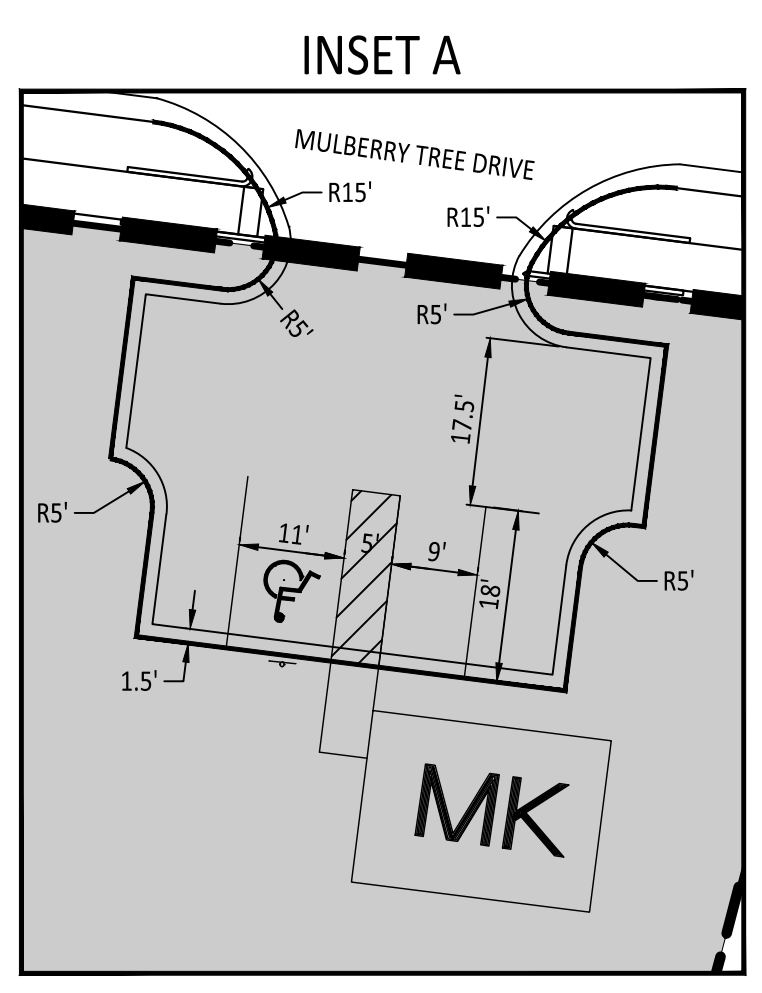


CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION
 Electronic Approval: This approval is being issued electronically. This approval is valid only upon the signature of a City of Raleigh Review Officer below. The City will retain a copy of the approved plans. Any work authorized by this approval must proceed in accordance with the plans kept on file with the City. This electronic approval may not be edited once issued. Any modification to this approval once issued will invalidate this approval.
 City of Raleigh Development Approval _____
 Raleigh Water Review Officer



SITE INFORMATION	
OWNER	HOLLINGSWORTH, W. C., JR. AND HOLLINGSWORTH, LAURA W. P.O. BOX 61 LOUISBURG NC 27549-0061 AND MOODY, BENNY LAWRENCE AND MOODY, JEFFREY LYNN 1716 ROLESVILLE RD, WAKE FOREST NC 27587-9677
REAL ESTATE ID	0048383 AND 0048422
PIN NUMBERS	1767284925 AND 1767284304
DEED BOOK	DB:017552 PG:02100 AND DB:014297 PG:01583
DEEDED ACREAGE	51.78 AC
EXISTING ZONING	R-3 CZ
TOTAL PROJECT ACREAGE	49.92 AC
GOVERNMENTAL USE	0.48 AC
AREA IN LOTS	24.38 AC
AREA IN ROW	6.54 AC
EXISTING ROW	0.27 AC
DEDICATED ROW	0.14 AC
TOTAL LOTS	82
MIN LOT SIZE	10,000 SF
MIN LOT WIDTH	65'
FRONT SETBACK	25'
REAR SETBACK	25'
SIDE SETBACK	10'
CORNER SETBACK	25'
DENSITY	1.6 UNIT/AC.
OPEN SPACE REQ.	10% / 5 AC.
OPEN SPACE PROVIDED	37% / 18.81 AC
ACTIVE REQUIRED	2.5 AC (50% OF 5 AC)
ACTIVE SHOWN	2.7 AC
LF OF PUBLIC STREETS	5,531 LF

SITE LEGEND	
	OPEN SPACE
	EXISTING WETLANDS
	MAIL KIOSK
	LOT LINES
	SETBACK
	PROPOSED ROW
	PROPOSED EOP
	PROPOSED CENTERLINE
	PROPOSED BACK OF CURB
	50' NEUSE RIPARIAN BUFFER
	BUFFER ZONE 1 AND 2
	TOP OF CREEK
	PROPOSED SCM
	PROPOSED FENCE
	SIGHT TRIANGLE

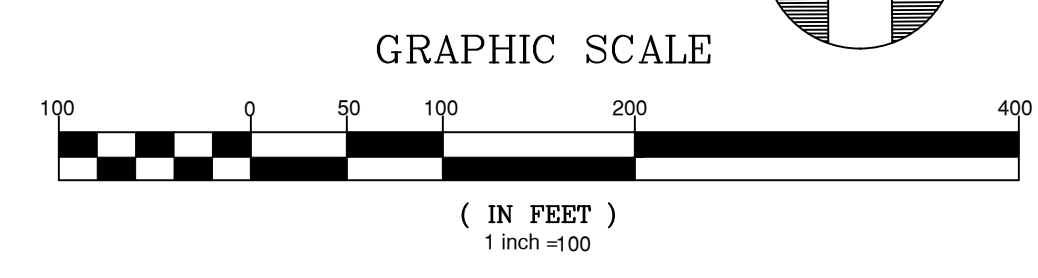


#25- Ensure SCM access and maintenance easements are clearly labeled and identifiable. SCM easements should contain the entire SCM and provide a connection to a public R/W.

- NOTES:
- SEWER ACCESS FROM ADJACENT DEVELOPMENT TO BE DETERMINED UPON FINAL LAYOUT.
 - STANDARD CROSSWALKS ARE TO BE 8' WHITE, W11-2 WITH W16-7P SIGNS WITH FLUORESCENT YELLOW-GREEN SHEETING. SEE 2.3 FOR HI-VISIBILITY CROSSWALK DETAIL.
 - GREENWAY TRAIL IS TO BE DESIGNED USING ASPHALT.

OPEN SPACE AREA	
OPEN SPACE ID	AREA
OPEN SPACE 1	27,618.61 SQ.FT / 0.63 AC
OPEN SPACE 2	10,948.31 SQ.FT / 0.25 AC
OPEN SPACE 3	307,966.02 SQ.FT / 7.07 AC
OPEN SPACE 4	308,915.69 SQ.FT / 7.09 AC
OPEN SPACE 5	19,503.67 SQ.FT / 0.45 AC
OPEN SPACE 6	103,461.21 / 2.38 AC.
OPEN SPACE 7	20,167.06 SQ.FT / 0.46 AC
OPEN SPACE 8	5,374.43 SQ.FT / 0.12 AC

- KEYNOTE LEGEND:
- CURB RAMP TYPE 1 MODIFIED
 - CURB RAMP TYPE 3 MODIFIED INSTALLATION IN A RADIUS
 - CURB RAMP TYPE 5A
 - CURB RAMP TYPE 3



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City of Raleigh Development Approval _____
Raleigh Water Review Officer _____

North 811
*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-8949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm

STIPULATION FOR REUSE
THIS DRAWING WAS PREPARED FOR USE ON THE SPECIFIC SITE, NAMED HEREON, CONTEMPORANEOUSLY WITH ITS ISSUE DATE AS LISTED, HEREON, AND IT IS NOT SUITABLE FOR USE ON A DIFFERENT PROJECT SITE OR AT A LATER TIME. USE OF THIS DRAWING FOR REFERENCE OR EXAMPLE ON ANOTHER PROJECT REQUIRES THE SERVICES OF PROPERLY LICENSED ARCHITECTS AND ENGINEERS. REPRODUCTION OF THIS DRAWING FOR REUSE ON ANOTHER PROJECT IS NOT AUTHORIZED AND MAY BE CONTRARY TO THE LAW.

THE PRESERVE AT
MOODY FARM
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 12/02/2024

SHEET TITLE:
OVERALL SITE PLAN

SHEET NO.:
C4.0



CHRISTIAN C. WILDER
 CINDY E. WILDER
 D.B. 10927 PG. 1494
 B.M. 2019 PG. 1188
 P.I.N. 1767-39-2260

RICO D. GLOVER, SR.
 TIFFANY N. GLOVER
 D.B. 17360 PG. 1716
 B.M. 2018 PG. 2222
 B.M. 1928 PG. 142
 P.I.N. 1767-38-5959

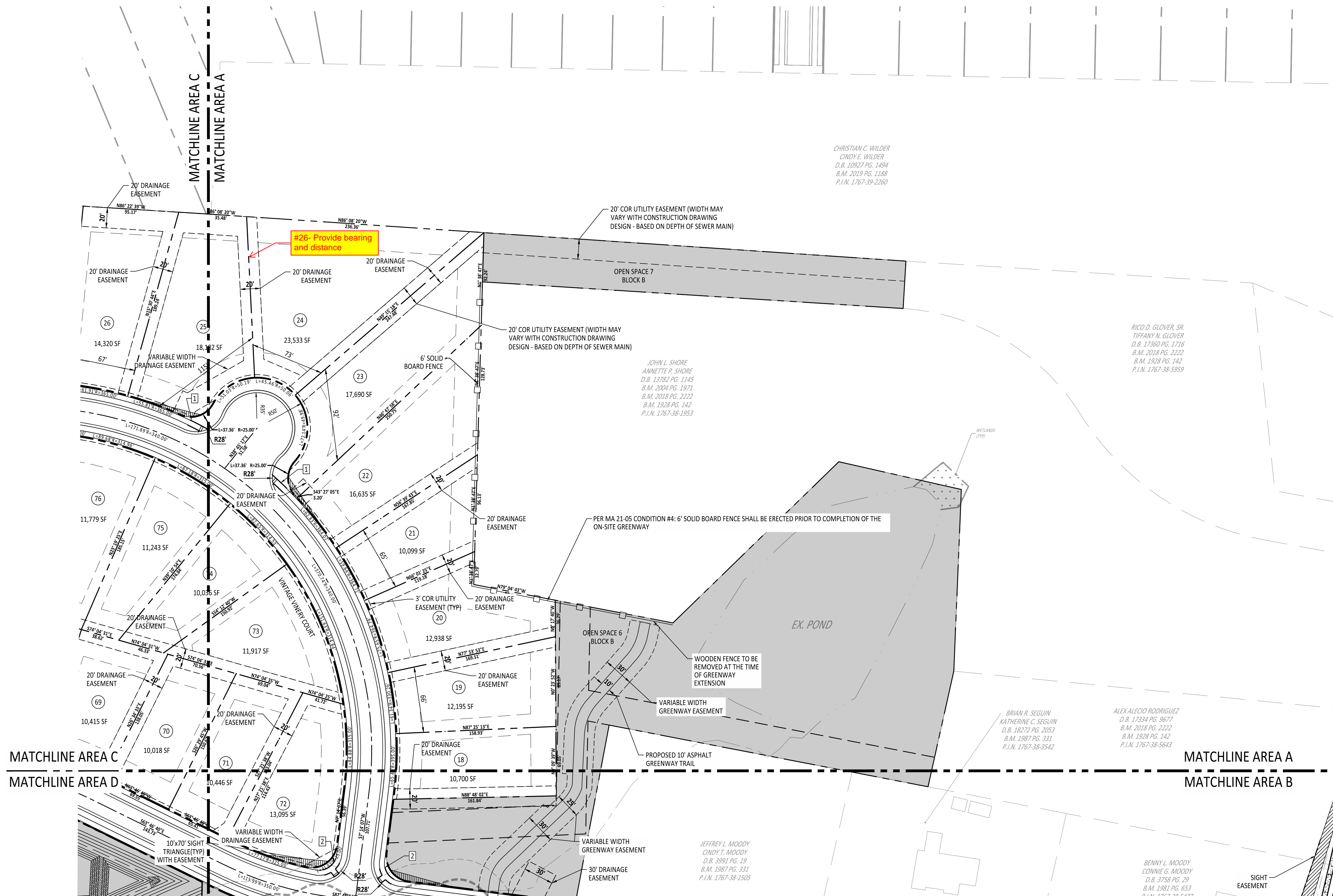
JOHN L. SHORE
 ANNETTE P. SHORE
 D.B. 13782 PG. 1145
 B.M. 2004 PG. 1971
 B.M. 2018 PG. 2222
 B.M. 1928 PG. 142
 P.I.N. 1767-38-1953

BRIAN R. SEGUIN
 KATHERINE C. SEGUIN
 D.B. 18272 PG. 2053
 B.M. 1987 PG. 331
 P.I.N. 1767-38-3542

ALEX ALECCIO RODRIGUEZ
 D.B. 17334 PG. 9677
 B.M. 2018 PG. 2222
 B.M. 1928 PG. 142
 P.I.N. 1767-38-5643

JEFFREY L. MOODY
 CINDY T. MOODY
 D.B. 3991 PG. 19
 B.M. 1987 PG. 331
 P.I.N. 1767-38-1505

BENNY L. MOODY
 CONNIE G. MOODY
 D.B. 3758 PG. 29
 B.M. 1981 PG. 653
 P.I.N. 1767-38-6477



LOT INFORMATION	
	SETBACK LINES
MIN LOT WIDTH	65'
FRONT SETBACK	25'
FRONT SETBACK	25'
SIDE SETBACK	10'
CORNER SETBACK	25'

* SEE LOT 1 FOR TYPICAL SETBACK DIMENSION

NOTE:
 TA 20-01 WAS ADAPTED 9-15-20, PERMITTING THE "DWELLING - SINGLE FAMILY DETACHED" USE IN THE R-3 DISTRICT, AND ESTABLISHED: MINIMUM LOT AREA OF 10,000 SF; MINIMUM LOT WIDTH 65'; FRONT YARD SETBACK OF 25'; SIDE YARD SETBACK OF 10'; CORNER YARD SETBACK OF 15'; REAR YARD SETBACK OF 25'

- KEYNOTE LEGEND:
- 1 CURB RAMP TYPE 1 MODIFIED
 - 2 CURB RAMP TYPE 3 MODIFIED INSTALLATION IN A RADIUS
 - 3 CURB RAMP TYPE 5A
 - 4 CURB RAMP TYPE 3

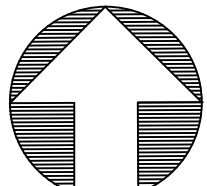
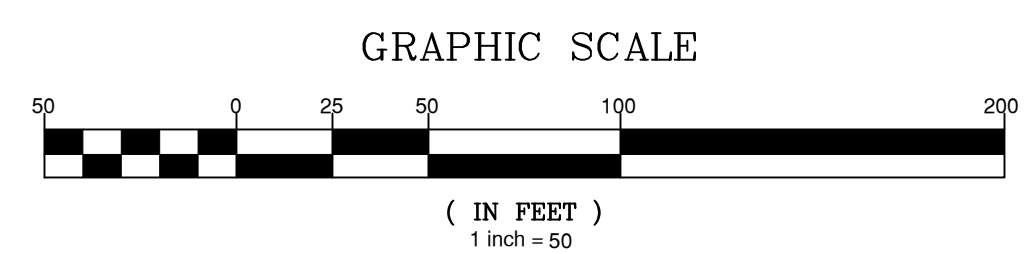
SITE LEGEND	
[Symbol]	OPEN SPACE
[Symbol]	EXISTING WETLANDS
[Symbol]	MAIL KIOSK
[Symbol]	LOT LINES
[Symbol]	SETBACK
[Symbol]	PROPOSED ROW
[Symbol]	PROPOSED EOP
[Symbol]	PROPOSED CENTERLINE
[Symbol]	PROPOSED BACK OF CURB
[Symbol]	50' NEUSE RIPARIAN BUFFER
[Symbol]	BUFFER ZONE 1 AND 2
[Symbol]	TOP OF CREEK
[Symbol]	PROPOSED SCM
[Symbol]	PROPOSED FENCE
[Symbol]	SIGHT TRIANGLE

NO.	DATE	REVISION

STIPULATION FOR REUSE
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JOB NUMBER: 21-002
 CHECKED BY: JK
 DRAWN BY: RC & SM
 DATE: 12/02/2024

SHEET TITLE:
SITE PLAN A
 SHEET NO.:
C4.1



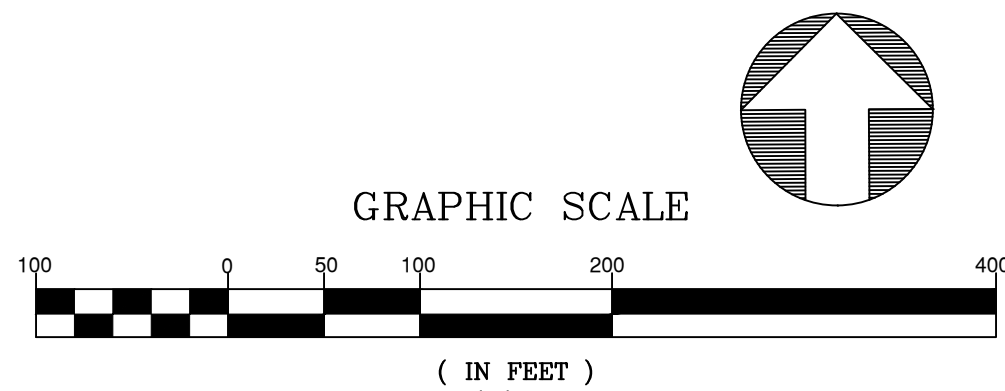
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 Raleigh Water Review Officer





#33- Slopes are not to exceed 3:1 without additional steps taken for stabilization. Slopes of 3:1 or less are preferred.

SITE LEGEND	
[Symbol]	OPEN SPACE
[Symbol]	EXISTING WETLANDS
[Symbol]	MAIL KIOSK
[Symbol]	LOT LINES
[Symbol]	SETBACK
[Symbol]	PROPOSED ROW
[Symbol]	PROPOSED EOP
[Symbol]	PROPOSED CENTERLINE
[Symbol]	PROPOSED BACK OF CURB
[Symbol]	50' NEUSE RIPARIAN BUFFER
[Symbol]	BUFFER ZONE 1 AND 2
[Symbol]	TOP OF CREEK
[Symbol]	PROPOSED SCM
[Symbol]	PROPOSED FENCE
[Symbol]	SIGHT TRIANGLE



NOTE: SEE DRAINAGE 50 SCALE SHEETS FOR STORMWATER STRUCTURE LABELS.

NO. DATE REVISION:

STIPULATION FOR REUSE
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THE PRESERVE AT MOODY FARM
 ROLESVILLE ROAD
 WAKE COUNTY, NC

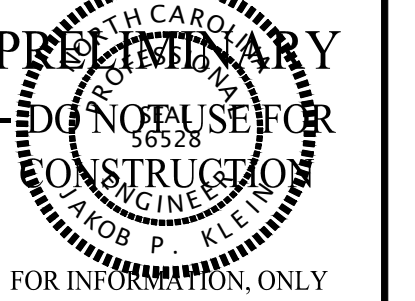
JOB NUMBER: 21-002
 CHECKED BY: JK
 DRAWN BY: RC & SM
 DATE: 12/02/2024
 SHEET TITLE:
OVERALL DRAINAGE PLAN
 SHEET NO.: **C5.0**

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION
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 Raleigh Water Review Officer



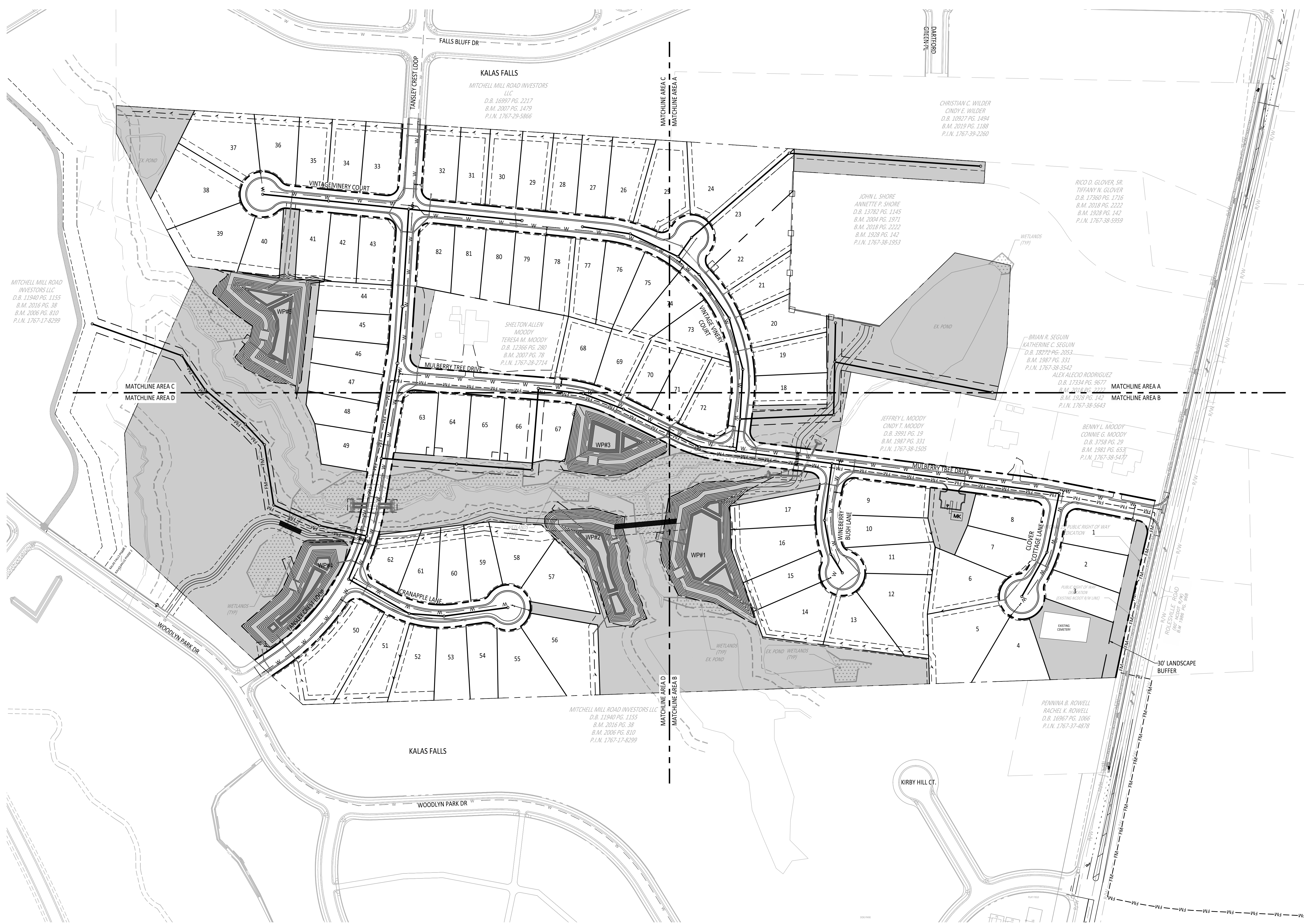


PRELIMINARY



FOR INFORMATION ONLY

UTILITY LEGEND	
[Symbol]	OPEN SPACE
[Symbol]	EXISTING WETLANDS
[Symbol]	MAIL KIOSK
[Symbol]	LOT LINES
[Symbol]	PROPOSED ROW
[Symbol]	PROPOSED EOP
[Symbol]	PROPOSED CENTERLINE
[Symbol]	PROPOSED BACK OF CURB
[Symbol]	50' NEUSE RIPARIAN BUFFER
[Symbol]	BUFFER ZONE 1 AND 2
[Symbol]	TOP OF CREEK
[Symbol]	PROPOSED SCM
[Symbol]	PROPOSED WATERLINE
[Symbol]	PROPOSED SEWERLINE
[Symbol]	PROPOSED MANHOLE
[Symbol]	PROPOSED WATER METER
[Symbol]	PROPOSED SEWER SERVICE



MITCHELL MILL ROAD INVESTORS LLC
D.B. 11940 PG. 1155
B.M. 2016 PG. 38
B.M. 2006 PG. 810
P.I.N. 1767-17-8299

KALAS FALLS
MITCHELL MILL ROAD INVESTORS LLC
D.B. 16997 PG. 2217
B.M. 2007 PG. 1479
P.I.N. 1767-29-5866

CHRISTIAN C. WILDER
CINDY E. WILDER
D.B. 10927 PG. 1494
B.M. 2019 PG. 1189
P.I.N. 1767-39-2260

JOHN L. SHORE
ANNETTE P. SHORE
D.B. 13782 PG. 1145
B.M. 2004 PG. 1971
B.M. 2018 PG. 2222
B.M. 1928 PG. 142
P.I.N. 1767-38-1953

RICO D. GLOVER, SR.
TIFFANY M. GLOVER
D.B. 17360 PG. 1716
B.M. 2018 PG. 2222
B.M. 1928 PG. 142
P.I.N. 1767-38-5959

SHELTON ALLEN MOODY
TERESA M. MOODY
D.B. 12366 PG. 280
B.M. 2007 PG. 78
P.I.N. 1767-28-2714

BRIAN R. SEGUIN
KATHERINE C. SEGUIN
D.B. 18272 PG. 2053
B.M. 1987 PG. 331
P.I.N. 1767-38-3542

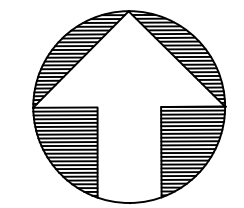
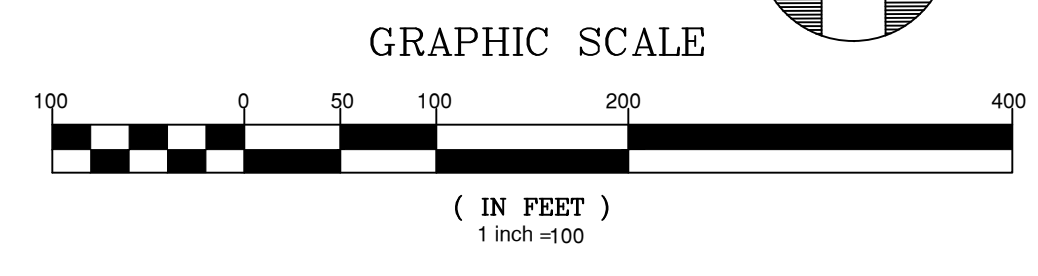
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B.M. 1997 PG. 331
P.I.N. 1767-38-1505

BENNY L. MOODY
CONNIE G. MOODY
D.B. 3758 PG. 29
B.M. 1981 PG. 653
P.I.N. 1767-38-5477

MITCHELL MILL ROAD INVESTORS LLC
D.B. 11940 PG. 1155
B.M. 2016 PG. 38
B.M. 2006 PG. 810
P.I.N. 1767-17-8299

PENNINGTON B. ROWELL
RACHEL K. ROWELL
D.B. 16967 PG. 1066
P.I.N. 1767-37-4878

NOTE: SEE UTILITY 50 SCALE SHEETS FOR EASEMENT AND APPURTENANCE LABELS.



*WE'RE ANTICIPATING CONSTRUCTION OF FM TO BE DONE PRIOR TO CONSTRUCTION OF THIS PROJECT.

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City of Raleigh Development Approval _____
Raleigh Water Review Officer



NO.	DATE	REVISION:

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THE PRESERVE AT MOODY FARM
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 12/02/2024

SHEET TITLE:
OVERALL UTILITIES PLAN

SHEET NO.: **C6.0**

NO.	DATE	REVISION:

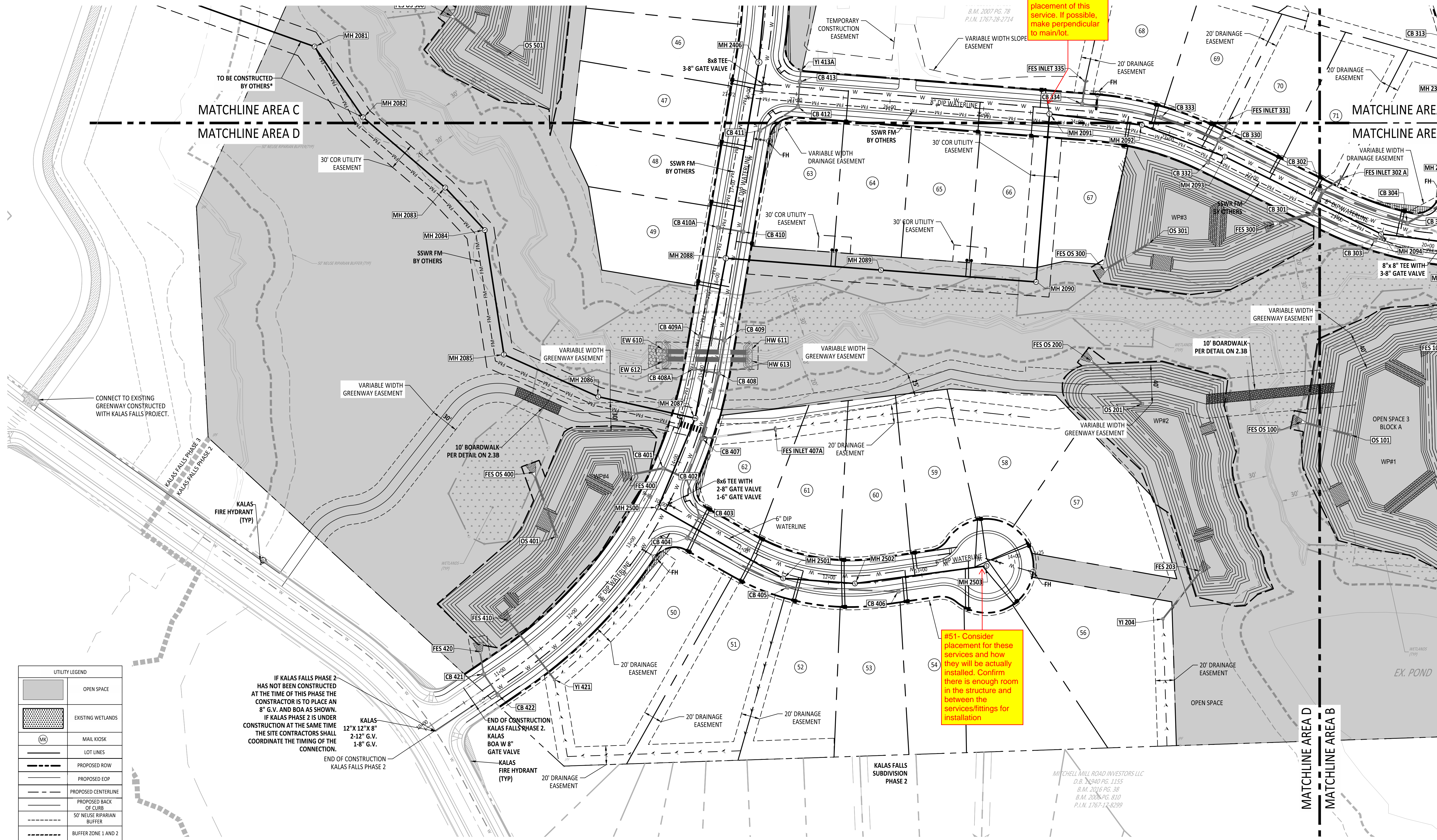
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THE PRESERVE AT MOODY FARM
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 12/02/2024
SHEET TITLE:

UTILITY PLAN D

SHEET NO.:
C6.4

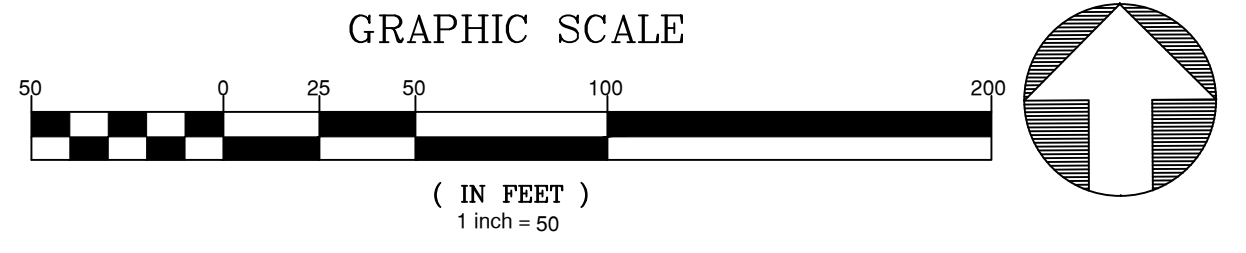


UTILITY LEGEND

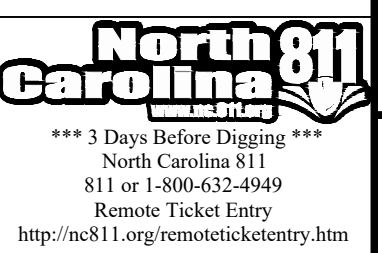
[Symbol]	OPEN SPACE
[Symbol]	EXISTING WETLANDS
[Symbol]	MAIL KIOSK
[Symbol]	LOT LINES
[Symbol]	PROPOSED ROW
[Symbol]	PROPOSED EOP
[Symbol]	PROPOSED CENTERLINE
[Symbol]	PROPOSED BACK OF CURB
[Symbol]	50' NEUSE RIPARIAN BUFFER
[Symbol]	BUFFER ZONE 1 AND 2
[Symbol]	TOP OF CREEK
[Symbol]	PROPOSED SCM
[Symbol]	PROPOSED WATERLINE
[Symbol]	PROPOSED SEWERLINE
[Symbol]	PROPOSED MANHOLE
[Symbol]	PROPOSED MANHOLE
[Symbol]	PROPOSED WATER METER
[Symbol]	PROPOSED SEWER SERVICE

IF KALAS FALLS PHASE 2 HAS NOT BEEN CONSTRUCTED AT THE TIME OF THIS PHASE THE CONSTRUCTOR IS TO PLACE AN 8" G.V. AND BOA AS SHOWN. IF KALAS PHASE 2 IS UNDER CONSTRUCTION AT THE SAME TIME THE SITE CONTRACTORS SHALL COORDINATE THE TIMING OF THE CONNECTION.

KALAS 12" X 12" X 8" 2-12" G.V. 1-8" G.V.



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City of Raleigh Development Approval _____
Raleigh Water Review Officer



December 2, 2024
Z:\00\31-002 Moody Development\Task 02102024\02\Working Drawings\Construction Set\6.4 Utilities Plan.dwg

#54- It appears as if upstream and downstream table headers have been flipped

SCM 1 - PIPE SUMMARY

Table with 7 columns: DOWNSTREAM STRUCTURE, UPSTREAM STRUCTURE, PIPE SIZE, LENGTH, SLOPE, DOWNSTREAM INVERT (FT), UPSTREAM INVERT (FT). Rows include CB 101, CB 102, etc.

SCM 1 Outfall - PIPE SUMMARY

Table with 7 columns: DOWNSTREAM STRUCTURE, UPSTREAM STRUCTURE, PIPE SIZE, LENGTH, SLOPE, DOWNSTREAM INVERT (FT), UPSTREAM INVERT (FT). Rows include OS 101, FES OS 100.

SCM 2 - PIPE SUMMARY

Table with 7 columns: DOWNSTREAM STRUCTURE, UPSTREAM STRUCTURE, PIPE SIZE, LENGTH, SLOPE, DOWNSTREAM INVERT (FT), UPSTREAM INVERT (FT). Rows include YI 204, FES 203.

SCM 2 Outfall - PIPE SUMMARY

Table with 7 columns: DOWNSTREAM STRUCTURE, UPSTREAM STRUCTURE, PIPE SIZE, LENGTH, SLOPE, DOWNSTREAM INVERT (FT), UPSTREAM INVERT (FT). Rows include OS 201, FES OS 200.

SCM 3 - PIPE SUMMARY

Table with 7 columns: DOWNSTREAM STRUCTURE, UPSTREAM STRUCTURE, PIPE SIZE, LENGTH, SLOPE, DOWNSTREAM INVERT (FT), UPSTREAM INVERT (FT). Rows include CB 301, CB 302, etc.

SCM 3 Outfall - PIPE SUMMARY

Table with 7 columns: DOWNSTREAM STRUCTURE, UPSTREAM STRUCTURE, PIPE SIZE, LENGTH, SLOPE, DOWNSTREAM INVERT (FT), UPSTREAM INVERT (FT). Rows include OS 301, FES OS 300.

SCM 4 - PIPE SUMMARY

Table with 7 columns: DOWNSTREAM STRUCTURE, UPSTREAM STRUCTURE, PIPE SIZE, LENGTH, SLOPE, DOWNSTREAM INVERT (FT), UPSTREAM INVERT (FT). Rows include CB 401, CB 402, etc.

SCM 4 Outfall - PIPE SUMMARY

Table with 7 columns: DOWNSTREAM STRUCTURE, UPSTREAM STRUCTURE, PIPE SIZE, LENGTH, SLOPE, DOWNSTREAM INVERT (FT), UPSTREAM INVERT (FT). Rows include OS 401, FES OS 400.

SCM 5 - PIPE SUMMARY

Table with 7 columns: DOWNSTREAM STRUCTURE, UPSTREAM STRUCTURE, PIPE SIZE, LENGTH, SLOPE, DOWNSTREAM INVERT (FT), UPSTREAM INVERT (FT). Rows include CB 502, CB 503, etc.

SCM 5 Outfall - PIPE SUMMARY

Table with 7 columns: DOWNSTREAM STRUCTURE, UPSTREAM STRUCTURE, PIPE SIZE, LENGTH, SLOPE, DOWNSTREAM INVERT (FT), UPSTREAM INVERT (FT). Rows include OS 501, FES OS 500.

Culvert Crossing - East - PIPE SUMMARY

Table with 7 columns: DOWNSTREAM STRUCTURE, UPSTREAM STRUCTURE, PIPE SIZE, LENGTH, SLOPE, DOWNSTREAM INVERT (FT), UPSTREAM INVERT (FT). Rows include HW FES 603, JB 602.

Culvert Crossing - West - PIPE SUMMARY

Table with 7 columns: DOWNSTREAM STRUCTURE, UPSTREAM STRUCTURE, PIPE SIZE, LENGTH, SLOPE, DOWNSTREAM INVERT (FT), UPSTREAM INVERT (FT). Rows include HW 611, EW 610.

Bypass - PIPE SUMMARY

Table with 7 columns: DOWNSTREAM STRUCTURE, UPSTREAM STRUCTURE, PIPE SIZE, LENGTH, SLOPE, DOWNSTREAM INVERT (FT), UPSTREAM INVERT (FT). Rows include CB 421, FES 420.

SCM 1 - Structure Table

Table with 3 columns: Structure Name, Details. Rows include CB 101, CB 102, etc.

SCM 1 Outfall - Structure Table

Table with 3 columns: Structure Name, Details. Rows include FES OS 100, OS 101.

SCM 2 - Structure Table

Table with 3 columns: Structure Name, Details. Rows include FES 203, YI 204.

SCM 2 Outfall - Structure Table

Table with 3 columns: Structure Name, Details. Rows include FES OS 200, OS 201.

SCM 2 - Structure Table

Table with 3 columns: Structure Name, Details. Rows include FES 203, YI 204.

SCM 2 Outfall - Structure Table

Table with 3 columns: Structure Name, Details. Rows include FES OS 200, OS 201.

SCM 3 - Structure Table

Table with 3 columns: Structure Name, Details. Rows include CB 301, CB 302, etc.

SCM 3 Outfall - Structure Table

Table with 3 columns: Structure Name, Details. Rows include FES OS 300, OS 301.

SCM 3 - Structure Table

Table with 3 columns: Structure Name, Details. Rows include FES 300, FES INLET 302 A.

SCM 3 Outfall - Structure Table

Table with 3 columns: Structure Name, Details. Rows include FES INLET 331, FES INLET 335.

SCM 5 - Structure Table

Table with 3 columns: Structure Name, Details. Rows include CB 502, CB 503, etc.

SCM 5 Outfall - Structure Table

Table with 3 columns: Structure Name, Details. Rows include FES OS 500, OS 501.

Culvert Crossing - East - Structure Table

Table with 3 columns: Structure Name, Details. Rows include EW 101, HW FES 603.

Culvert Crossing - West - Structure Table

Table with 3 columns: Structure Name, Details. Rows include EW 610, EW 612.

Bypass - Structure Table

Table with 3 columns: Structure Name, Details. Rows include CB 421, CB 422.

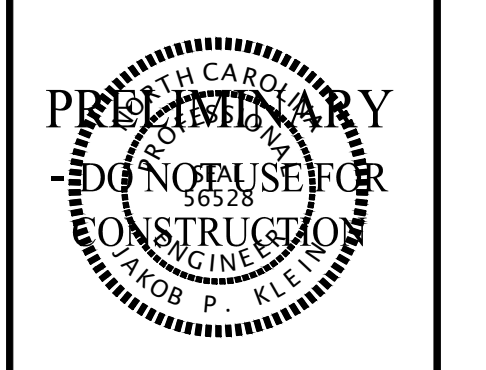
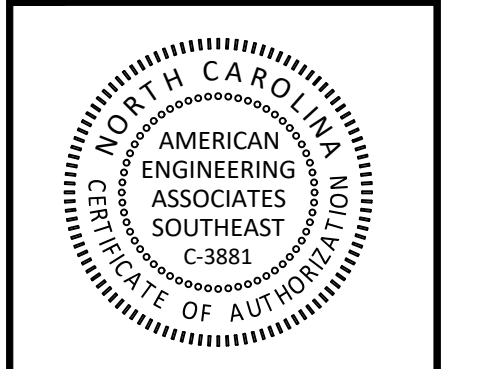


Table with 3 columns: NO., DATE, REVISION.

STIPULATION FOR REUSE: THIS DRAWING WAS PREPARED FOR USE ON THE SPECIFIC SITE, NAMED HEREON...

THE PRESERVE AT MOODY FARM ROLESVILLE ROAD WAKE COUNTY, NC

JOB NUMBER: 21-002 CHECKED BY: JK DRAWN BY: RC & SM DATE: 12/02/2024 SHEET TITLE:

SCHEDULE

SHEET NO.: C7.1

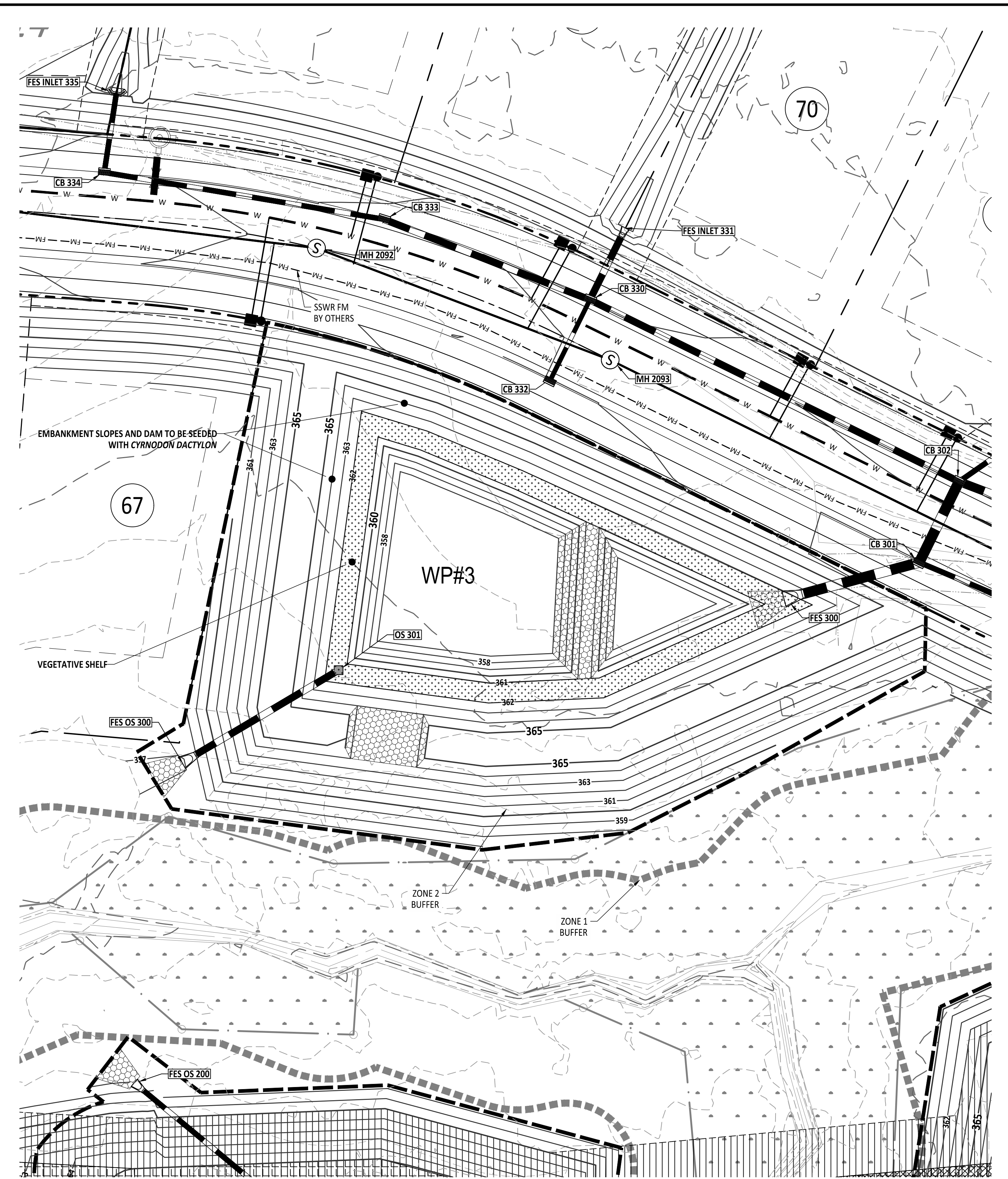
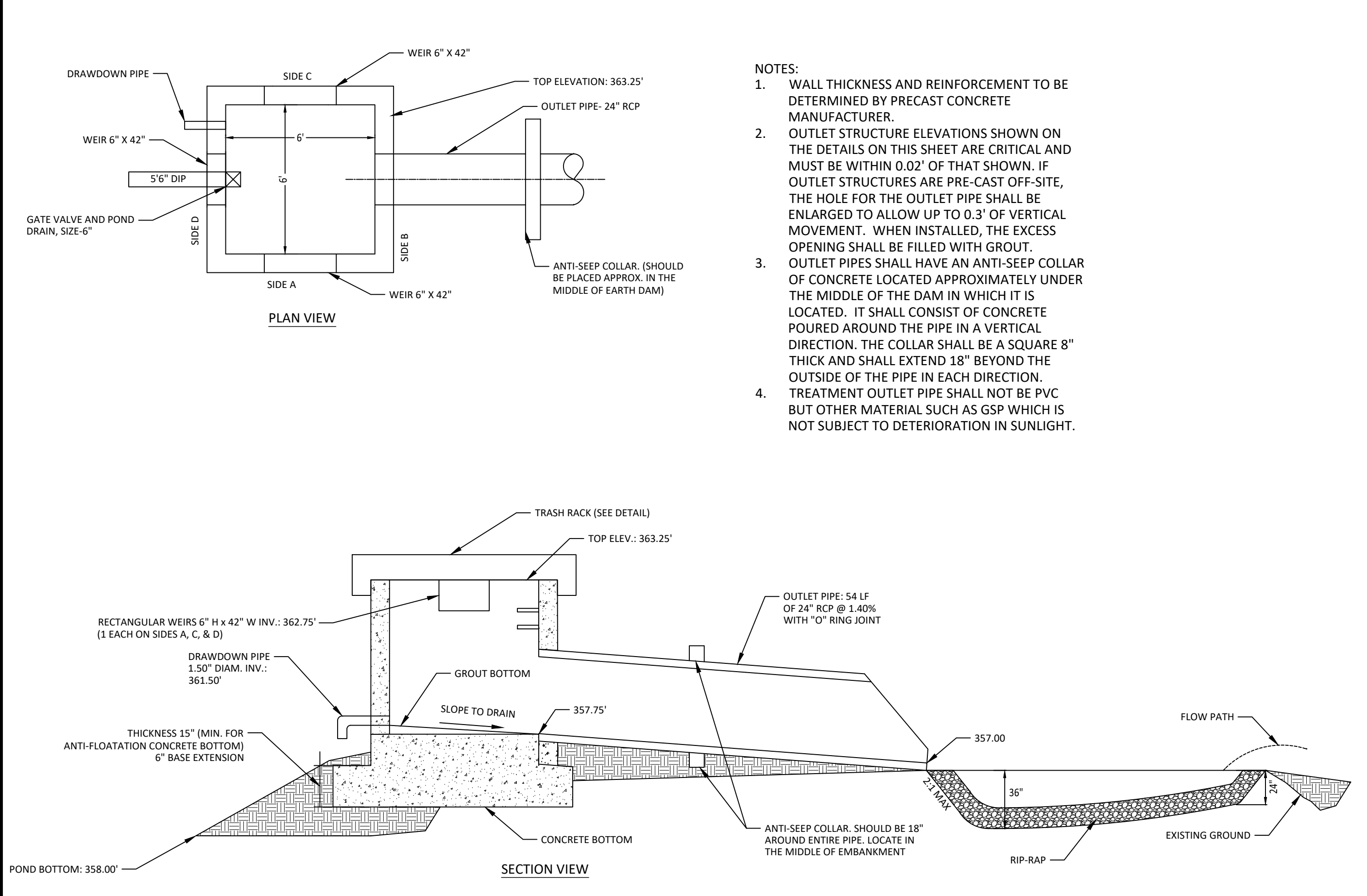
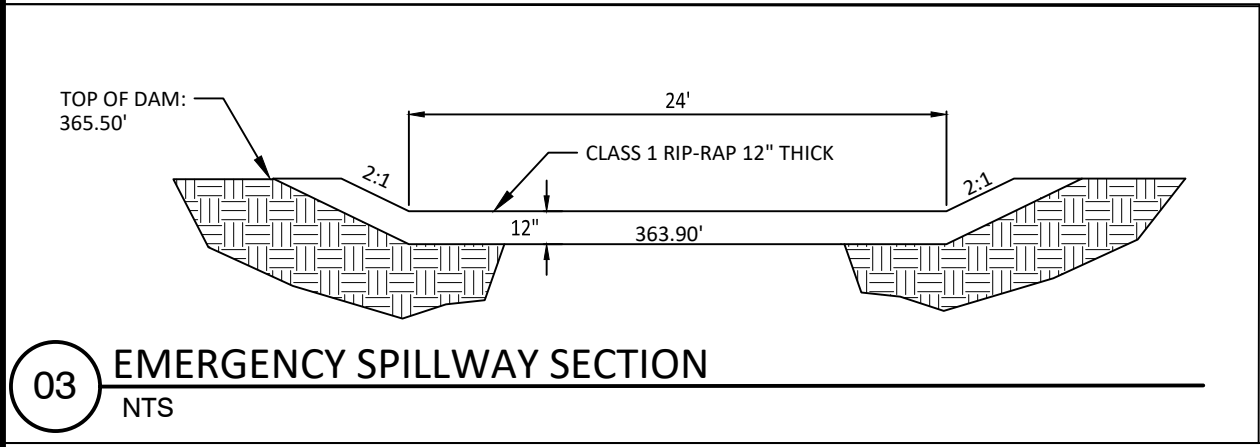
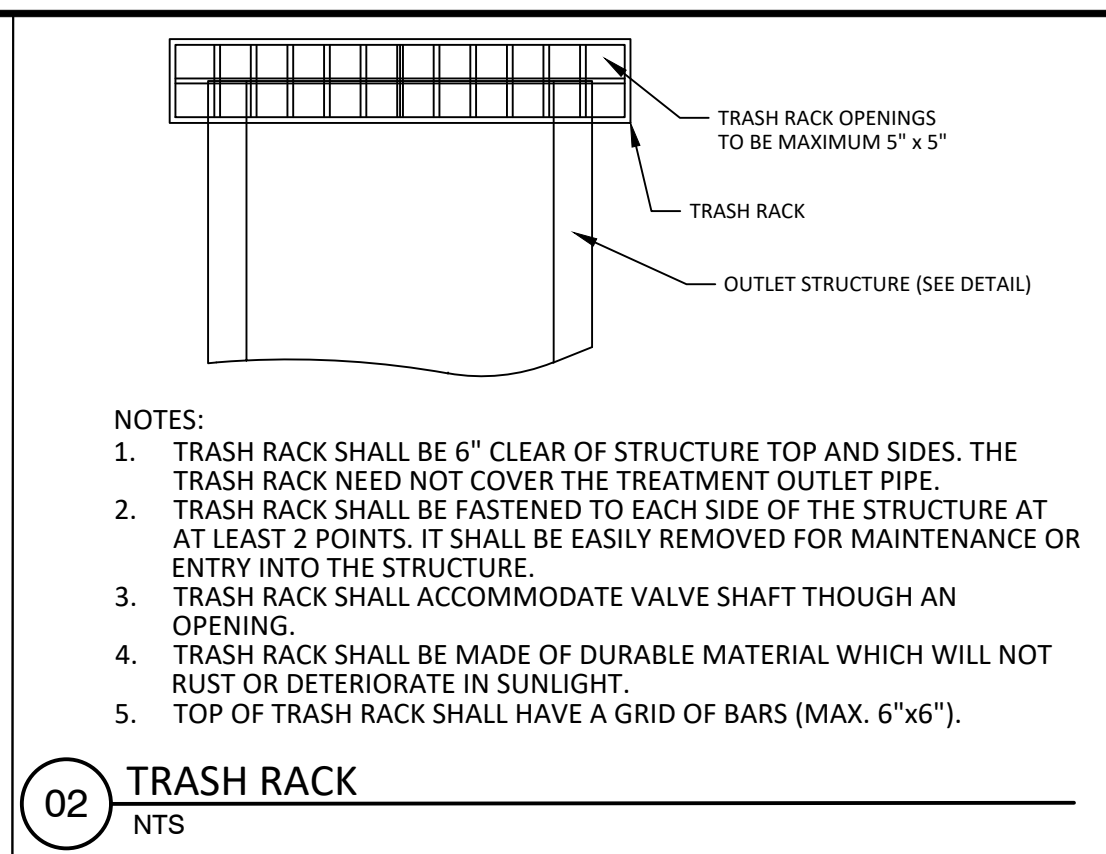
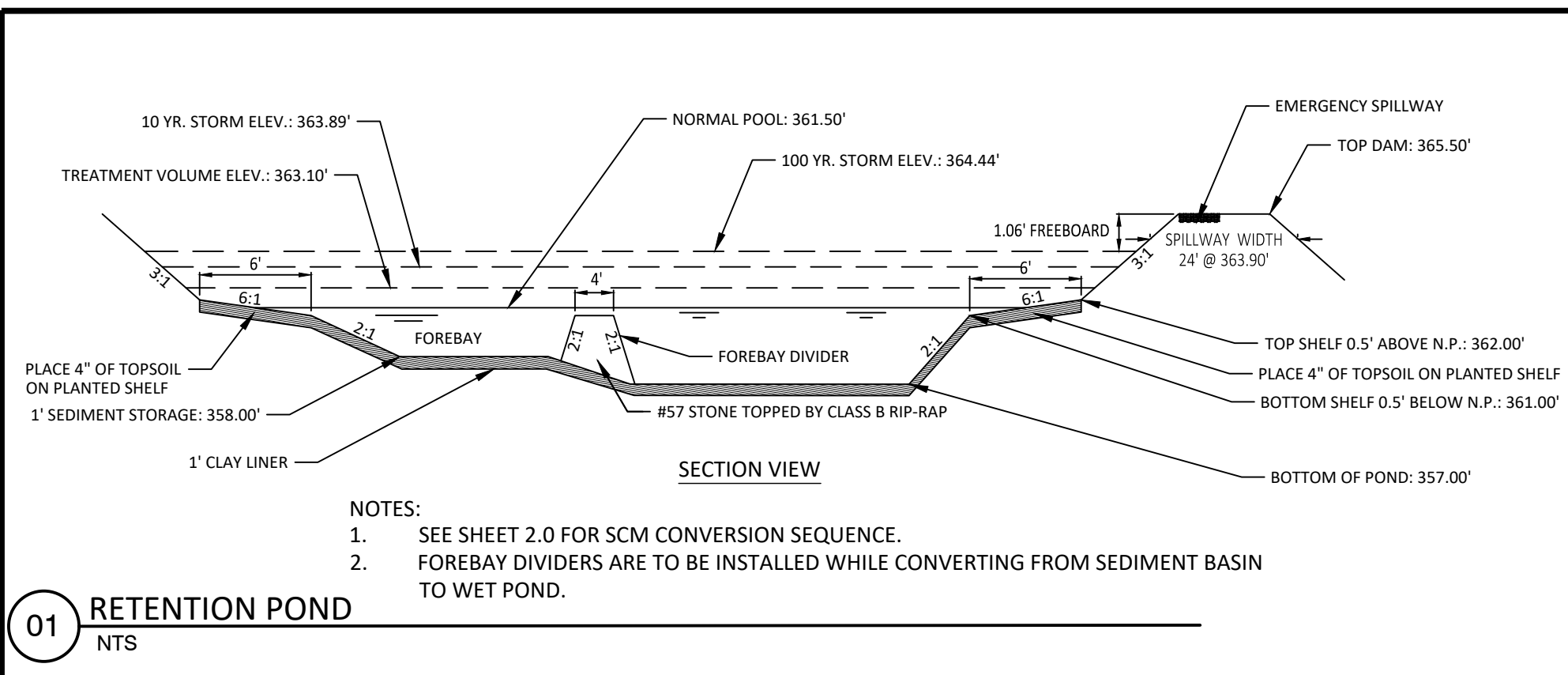
#55- FES's don't have rims, please remove value from table

#56- 0.5% min slope #57- provide min 2' cover on pipes in paved areas #58- Ensure min drop requirements in storm structures are met

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION Electronic Approval: This approval is being issued electronically...



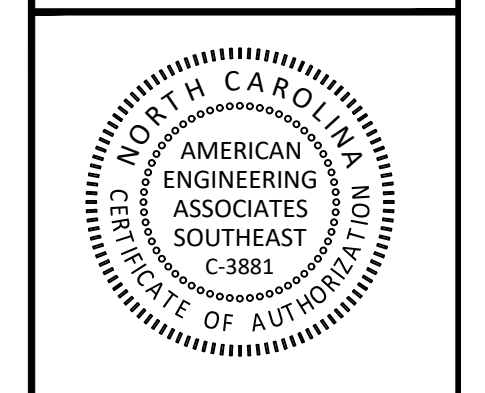
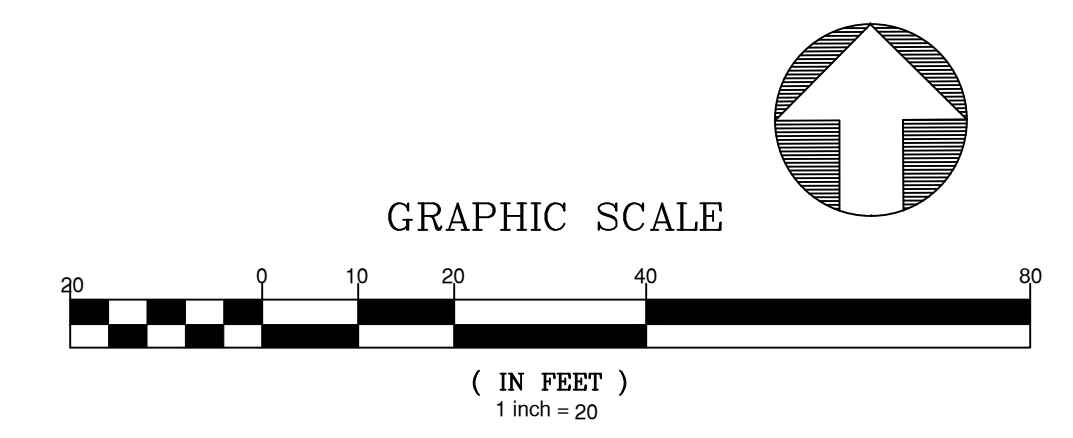
City of Raleigh Development Approval Raleigh Water Review Officer



PLANT LIST VEGETATED SHELF PLANT SCHEDULE:

VEGETATED SHELF (HERB.)	PLANT	POT SIZE	SPACING
EF	EUPATORIUM FISTRULOSUM	JOE PYE WEED	4-6" POT @ 3' SPACING
HC	HIBICUS COCCINEA	SCARLET ROSE MALLOW	4-6" POT @ 3' SPACING
CG	CHELONE GLABRA	WHITE TURTLEHEAD	4-6" POT @ 3' SPACING
LC	LOBELIA CARDINALIS	CARDINAL FLOWER	4-6" POT @ 3' SPACING

LANDSCAPE PLAN:
VEGETATED SHELF= 2,109 sf (USE 528 PLANTS FROM LIST ABOVE)
USE EQUAL NUMBER OF PLANTS FROM LIST ABOVE
CALCULATION: 50 PLANTS PER 200 SF



NO.	DATE	REVISION

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THE PRESERVE AT MOODY FARM
ROLESVILLE ROAD
WAKE COUNTY, NC

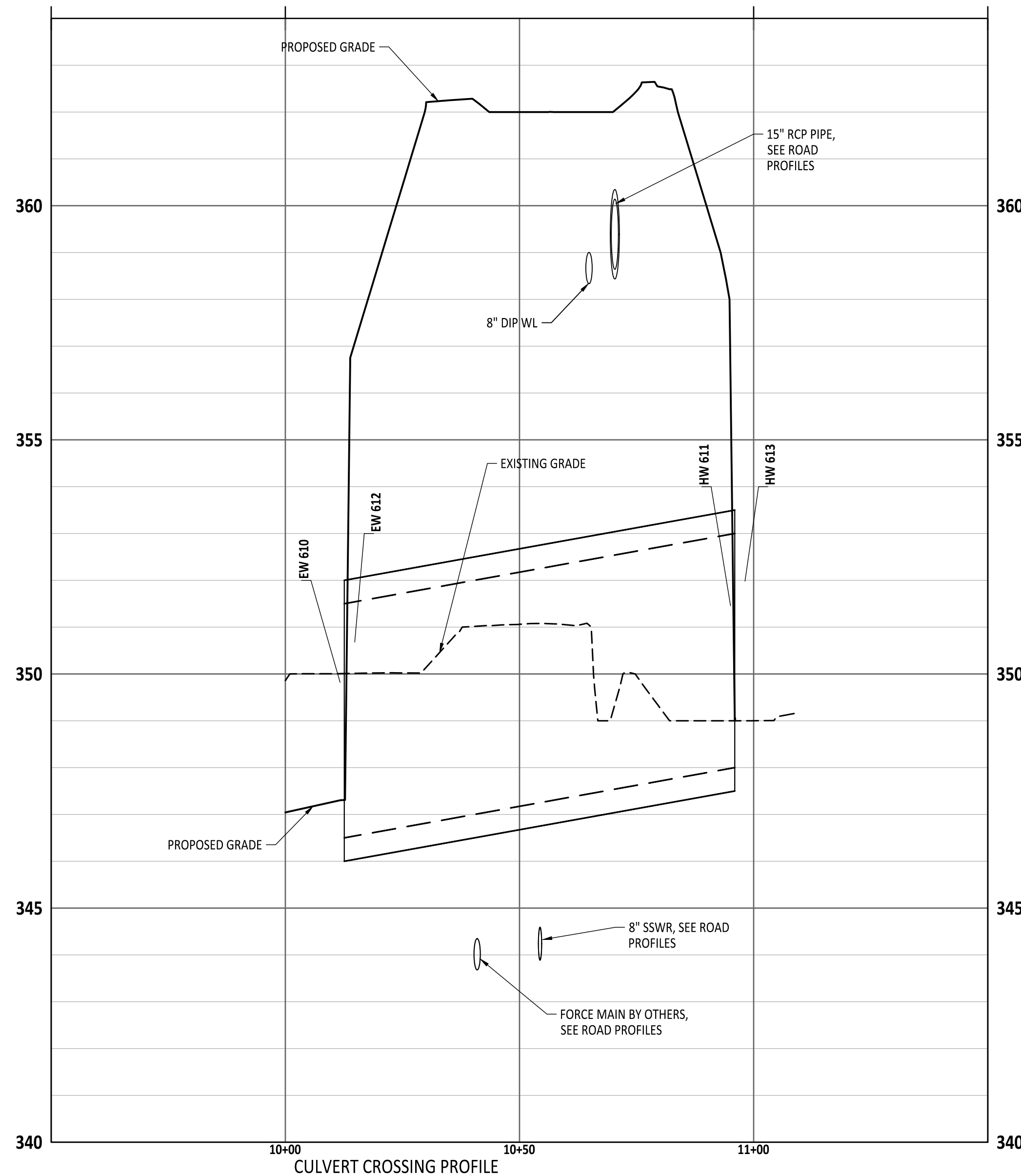
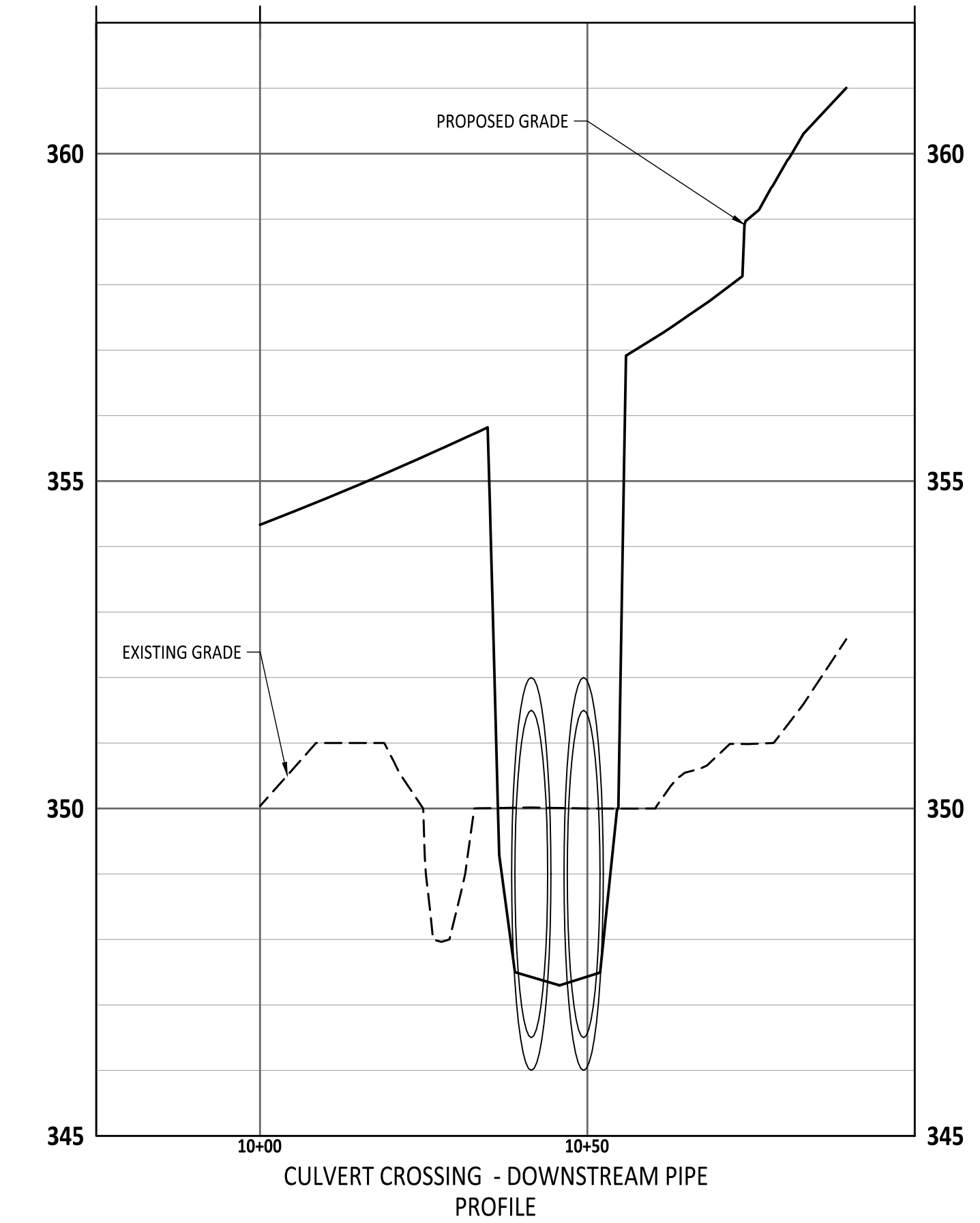
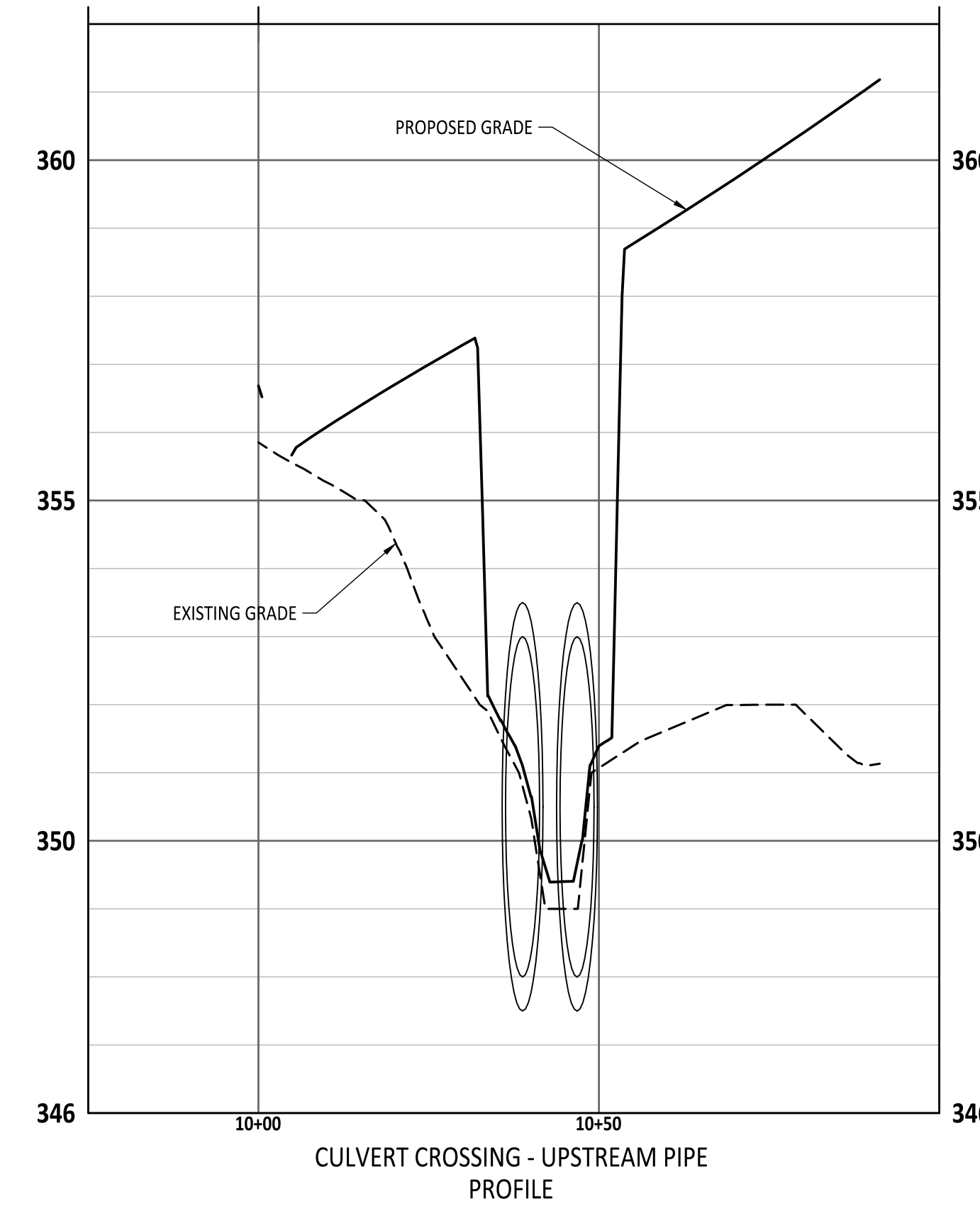
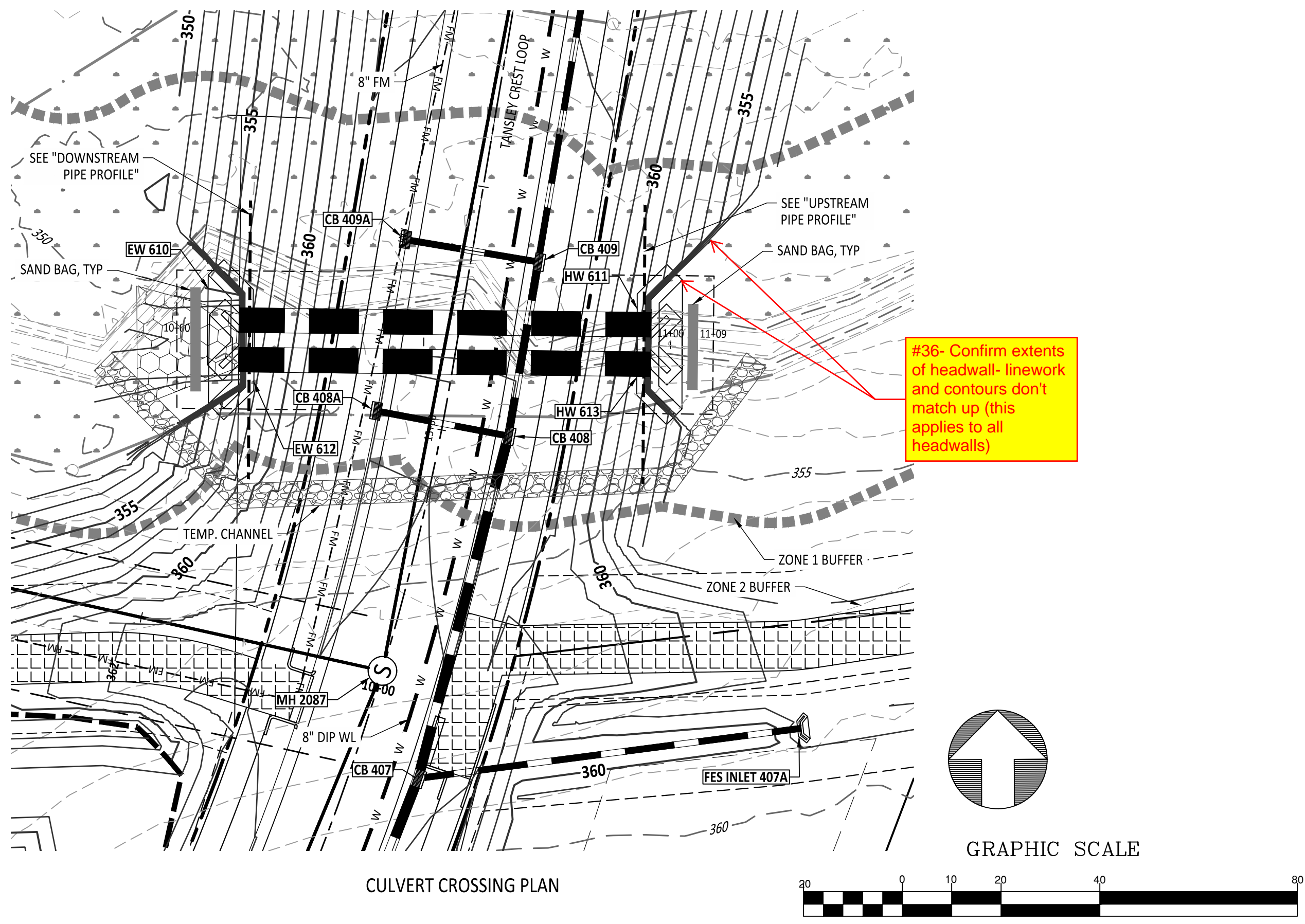
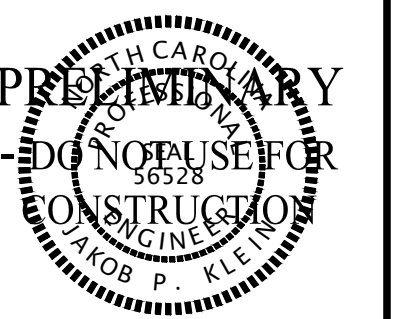
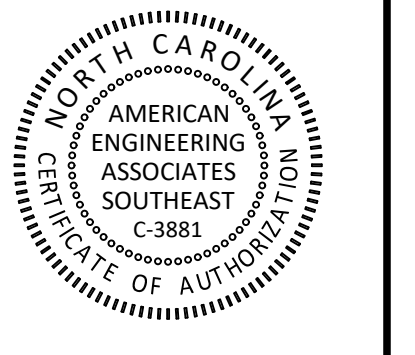
JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 12/02/2024
SHEET TITLE:

SCM 3
SHEET NO.: C8.2

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION
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City of Raleigh Development Approval _____
Raleigh Water Review Officer

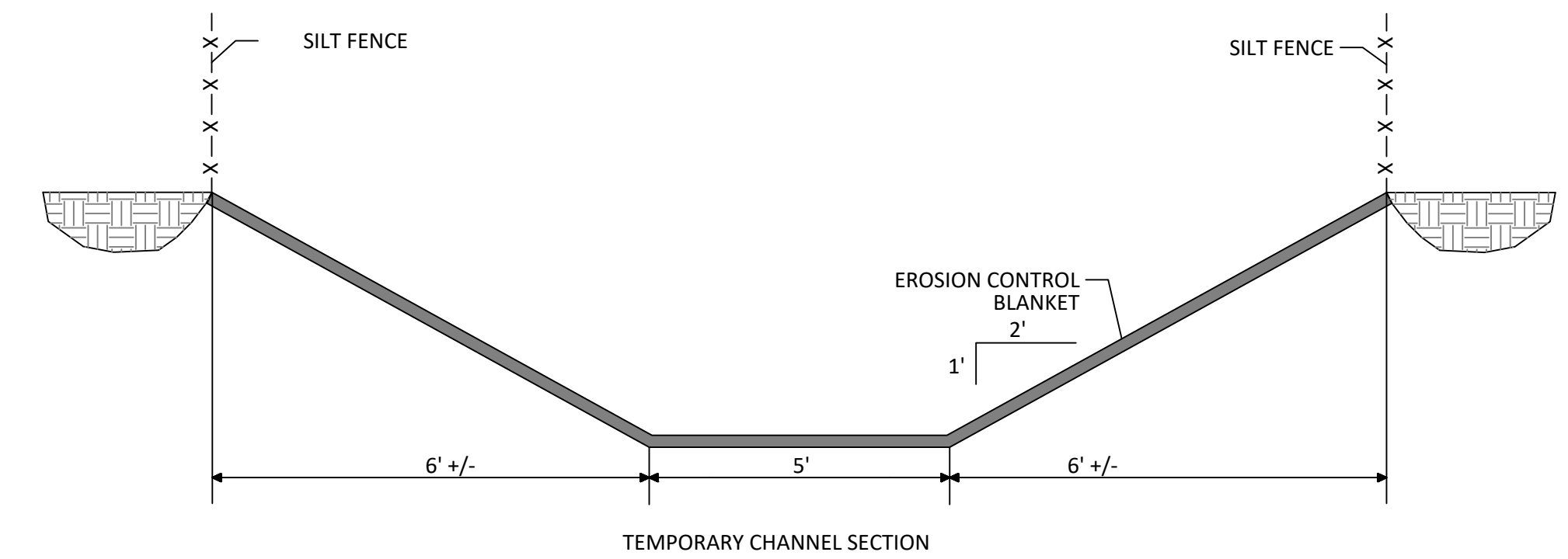


December 2, 2024
23/00/01-002/Moody/Development/Tract/02/10002/04/01/Working/Design/Construction/5/16/24/1.1/SCM/Plan/04



SEQUENCE FOR 60" RCP CULVERT CROSSING

- STAGE 1A CREEK CROSSING INSTALLATION**
1. CONDUCT MEETING WITH WAKE COUNTY INSPECTOR PRIOR TO PROCEEDING WITH THE STREAM CROSSING CONSTRUCTION.
 2. INSTALL THE BYPASS CHANNEL AS SHOWN WITH LINING LEAVING A PORTION OF THE STREAM BANK ON EACH END TO ACT AS A DAM TO PREVENT WATER FLOW DURING CONSTRUCTION OF THE CHANNEL. (STEPS 3 - 8 SHOULD BE ACCOMPLISHED DURING ONE WORKDAY).
 3. DURING A PERIOD OF DRY WEATHER REMOVE THE DOWNSTREAM DAM FIRST AND CONSTRUCT THE REMAINDER OF THE CHANNEL TO THE EXISTING STREAM BED.
 4. REMOVE THE UPSTREAM DAM AND CONSTRUCT THE REMAINDER OF THE CHANNEL ON THAT END INCLUDING LINING.
 5. ADD SANDBAGS ACROSS THE STREAM AT THE UPSTREAM END TO FORCE THE STREAM FLOW INTO THE BY-PASS CHANNEL.
 6. ADD SANDBAGS ACROSS THE DOWNSTREAM END OF THE STREAM JUST ABOVE THE POINT WHERE THE BY-PASS CHANNEL RE-ENTERS THE STREAM TO PREVENT FLOW INTO THE LOCATION OF THE PIPE TO BE INSTALLED.
 7. RELOCATE BRIDGE MAT OVER THE TEMPORARY BY-PASS CHANNEL.
 8. SEED/SOD AND STABILIZE ALL DENUDED AREAS ONCE THE CHANNEL IS IN PLACE.
- STAGE 1B CREEK CROSSING INSTALLATION**
1. OBTAIN PERMISSION FROM THE WAKE COUNTY INSPECTOR TO PROCEED WITH THIS STEP.
 2. EXCAVATE AREA AS SHOWN AND INSTALL PIPE WITH HEADWALLS AND DOWNSTREAM RIP RAP AS SHOWN IN RIP-RAP CROSS-SECTION.
 3. OBTAIN WAKE COUNTY APPROVAL OF THE PIPE INSTALLATION.
- STAGE 1C CREEK CROSSING INSTALLATION**
1. REMOVE TEMPORARY DAM ON DOWNSTREAM END.
 2. REMOVE TEMPORARY DAM ON UPSTREAM END.
 3. REMOVE LINING ON UPSTREAM END OF BY-PASS CHANNEL AND INSTALL EARTHEN DAM ACROSS THE UPSTREAM END OF THE BY-PASS CHANNEL TO FORCE STREAM FLOW THROUGH THE PIPE.
 4. INSTALL EARTHEN DAM ACROSS THE DOWNSTREAM OF THE BY-PASS CHANNEL AFTER REMOVING THE LINING.
 5. REMOVE REMAINDER OF THE BY-PASS CHANNEL LINING AND FILL THE CHANNEL COMPACTING THOROUGHLY IN LAYERS.
 6. INSTALL SILT FENCE AT THE TOE OF SLOPES AND TIE TO ENDWALLS AS SHOWN ON THIS PLAN.
 7. COMPLETE FILL AROUND THE PIPE TO A LEVEL AT LEAST TWO (2) FEET ABOVE THE TOP OF THE PIPE TO ALLOW CONSTRUCTION EQUIPMENT TO PASS OVER IT.
 8. COMPLETE FILL BRINGING THE AREA TO FINISHED GRADE.
 9. INSTALL PAVEMENT AND FOLLOW THE SEEDING SCHEDULE FOR ALL BARE AREAS.
 10. REFER TO MAIN CONSTRUCTION SEQUENCE FOR OTHER DETAILS.



GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH WAKE COUNTY STANDARDS AND REGULATIONS.
2. THERE SHALL BE NO DISTURBANCE OUTSIDE THE LIMITS SHOWN ON THIS PLAN WITHOUT AN APPROVED PLAN AMENDMENT BY WAKE COUNTY.
3. ALL DISTURBED AREAS SHALL BE SEEDED PER THE TABLE.
4. PERMANENT GROUND COVER SHALL BE ESTABLISHED PER NPDES SEEDING SCHEDULE AT EITHER 7 DAYS OR 14 DAYS DEPENDING ON MEASURE AND SLOPE.
5. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING SELF-INSPECTION LOG.
6. CUT AND FILL SLOPES THAT ARE 2:1 OR GREATER SHALL BE STABILIZED WITH PERMANENT SLOPE RETENTION DEVICES. SLOPES GREATER THAN 3:1 SHALL NOT BE STABILIZED WITH TURF GRASS BUT MUST BE STABILIZED WITH VEGETATION THAT REQUIRES MINIMAL MAINTENANCE: WEEPING LOVE GRASS, RED FESCUE, OR OTHER APPROVED VARIETY.

NO.	DATE	REVISION

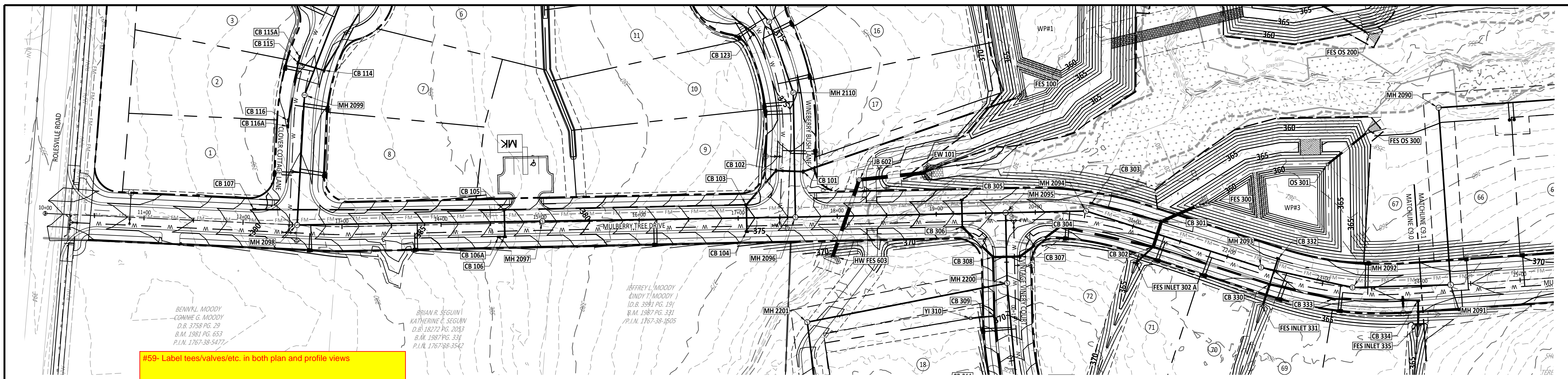
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THE PRESERVE AT MOODY FARM
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 12/02/2024
SHEET TITLE:
CULVERT CROSSING
SHEET NO.: **C8.5**

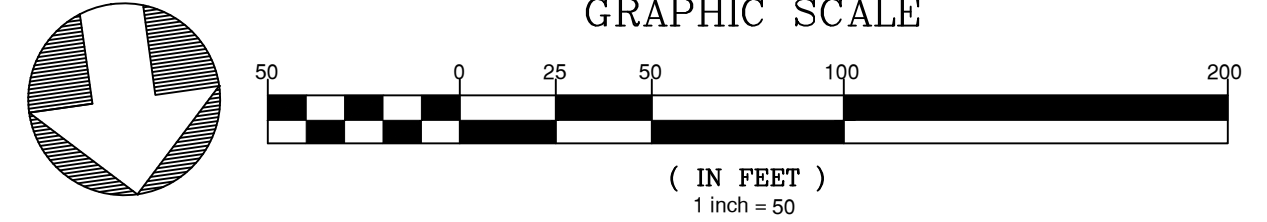
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Raleigh Water Review Officer _____





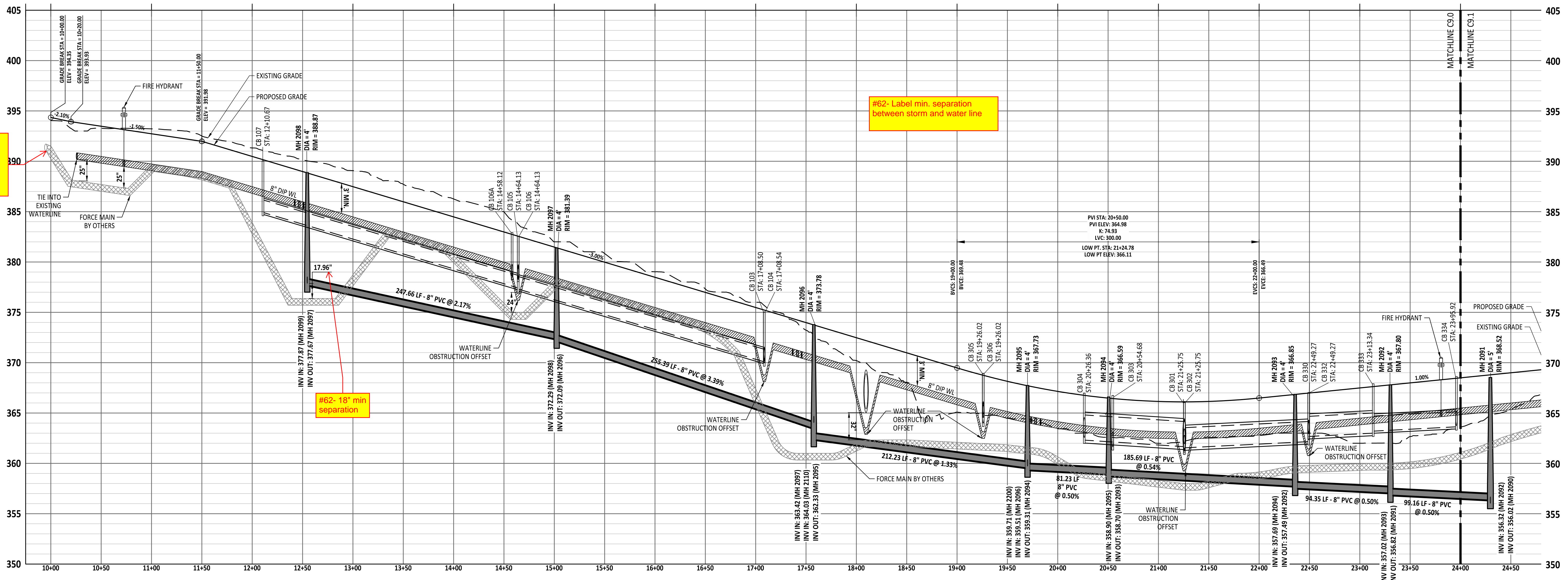
MULBERRY TREE DRIVE PLAN

GRAPHIC SCALE



#59- Label tees/valves/etc. in both plan and profile views

#60- Ensure the elevations at tees line up across profiles



MULBERRY TREE DRIVE PROFILE

#62- Label min. separation between storm and water line

#62- 18\"/>

#61- Force main does not extend this far on plan view, ensure plan and profile accurately reflect each other

NO.	DATE	REVISION

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THE PRESERVE AT MOODY FARM
 ROLESVILLE ROAD
 WAKE COUNTY, NC

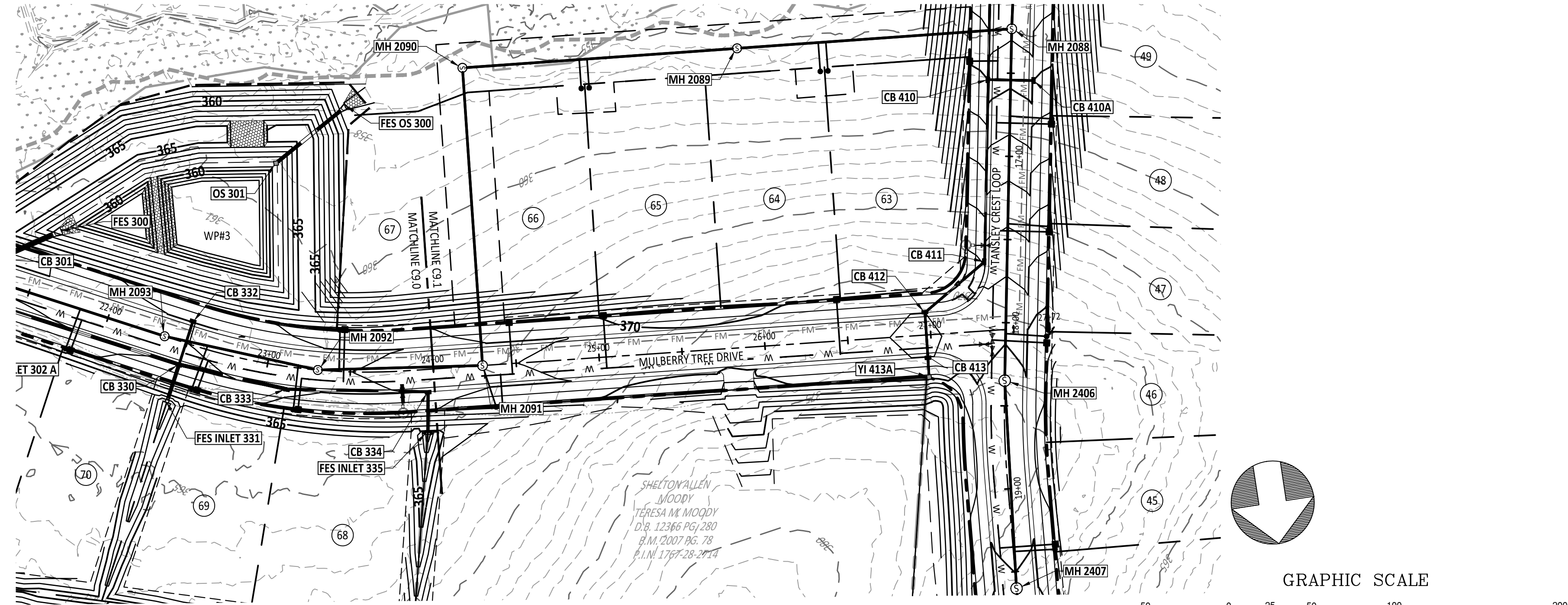
JOB NUMBER: 21-002
 CHECKED BY: JK
 DRAWN BY: RC & SM
 DATE: 12/02/2024

SHEET TITLE:
MULBERRY PLAN AND PROFILE

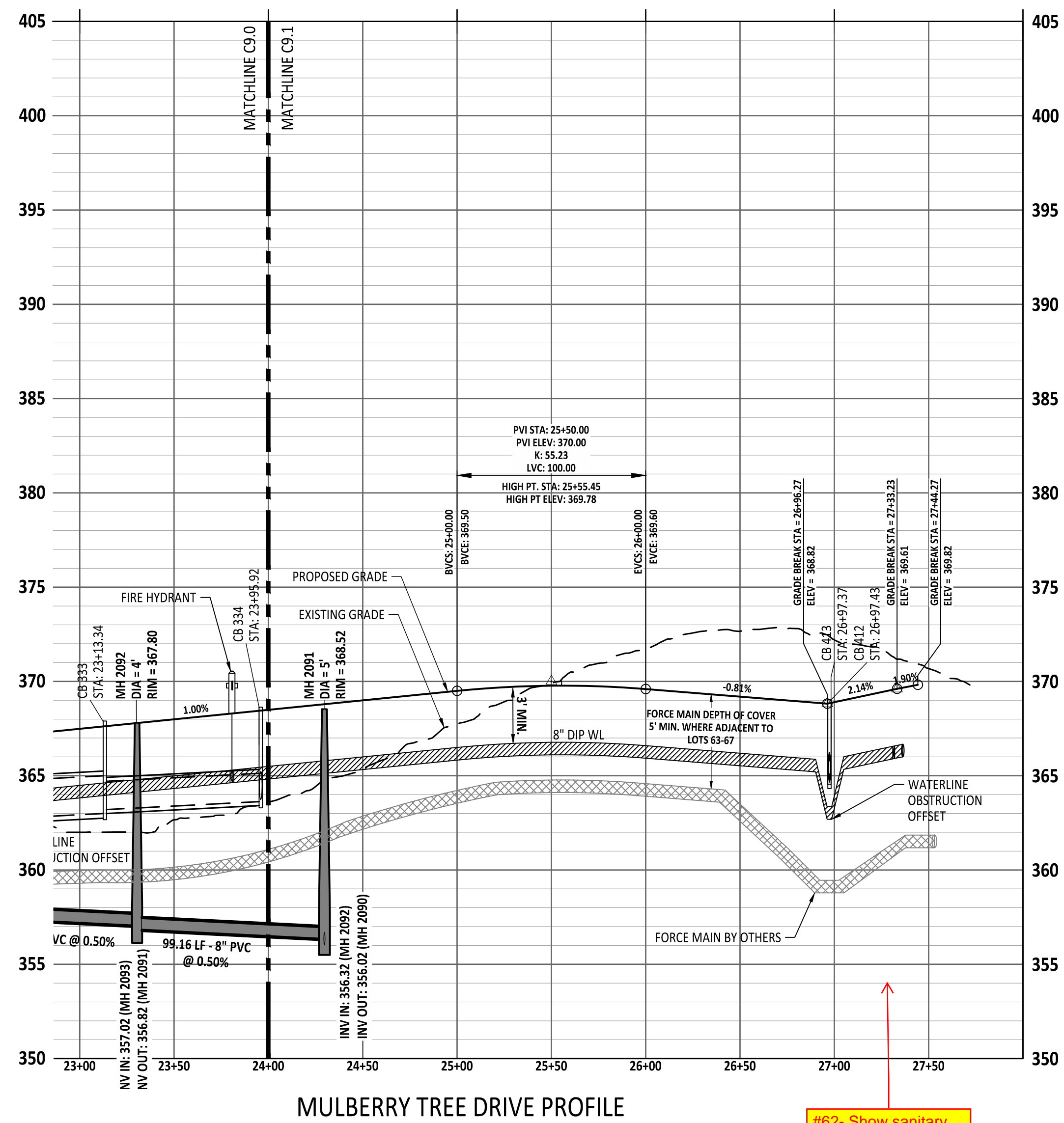
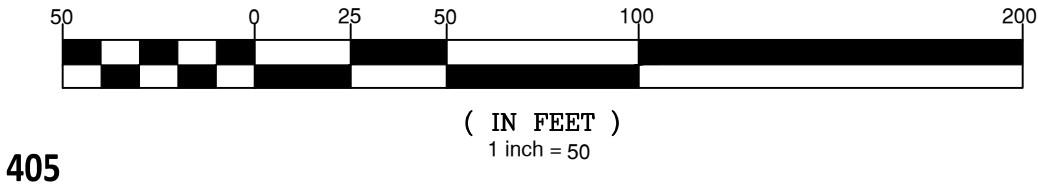
SHEET NO.:
C9.0

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 Raleigh Water Review Officer _____





MULBERRY TREE DRIVE PLAN



MULBERRY TREE DRIVE PROFILE

- #59- Label tees/valves/etc. in both plan and profile views
- #60- Ensure the elevations at tees line up across profiles
- #62- Label min. separation between storm and water line

#62- Show sanitary sewer crossing and add labels indicating minimum separation requirements

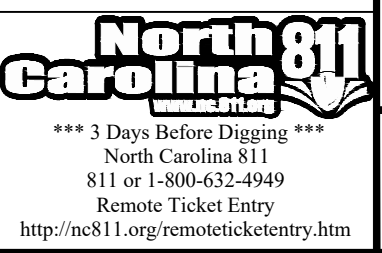
NO.	DATE	REVISION

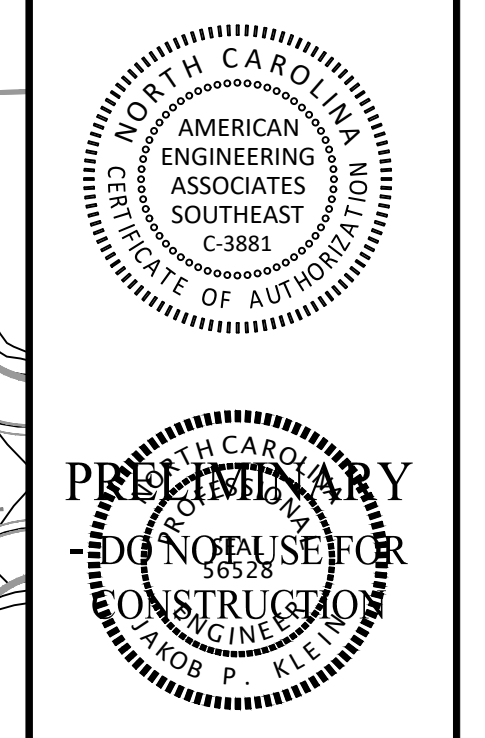
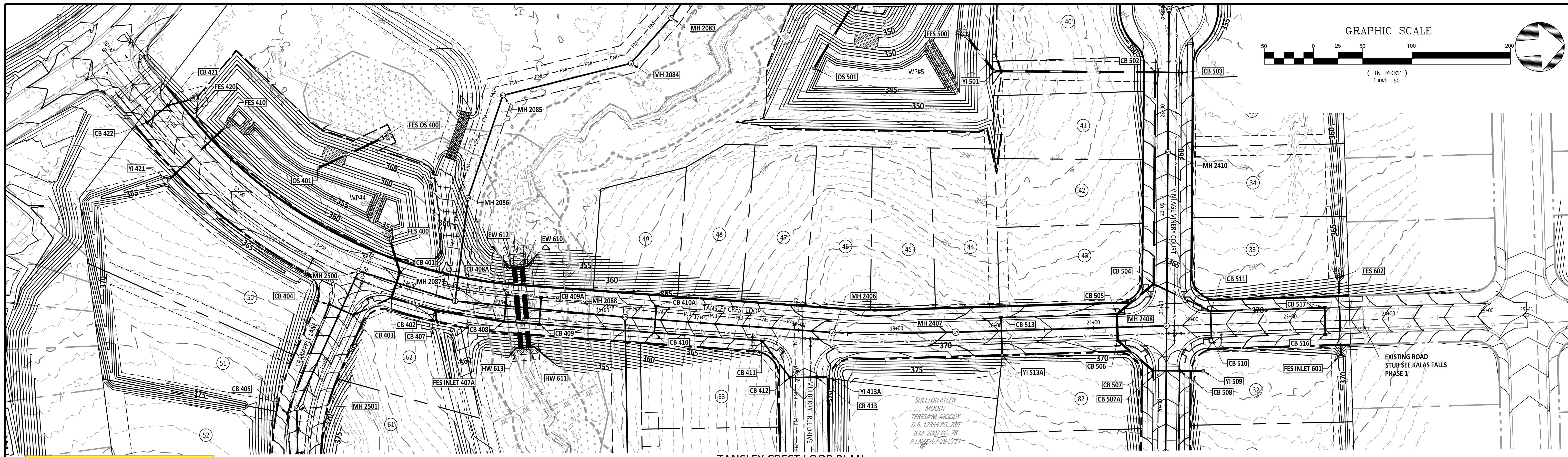
STIPULATION FOR REUSE
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THE PRESERVE
AT
MOODY FARM
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 12/02/2024
SHEET TITLE:
MULBERRY PLAN AND PROFILE
SHEET NO.:
C9.1

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City of Raleigh Development Approval _____
Raleigh Water Review Officer





#59- Label tees/valves/etc. in both plan and profile views

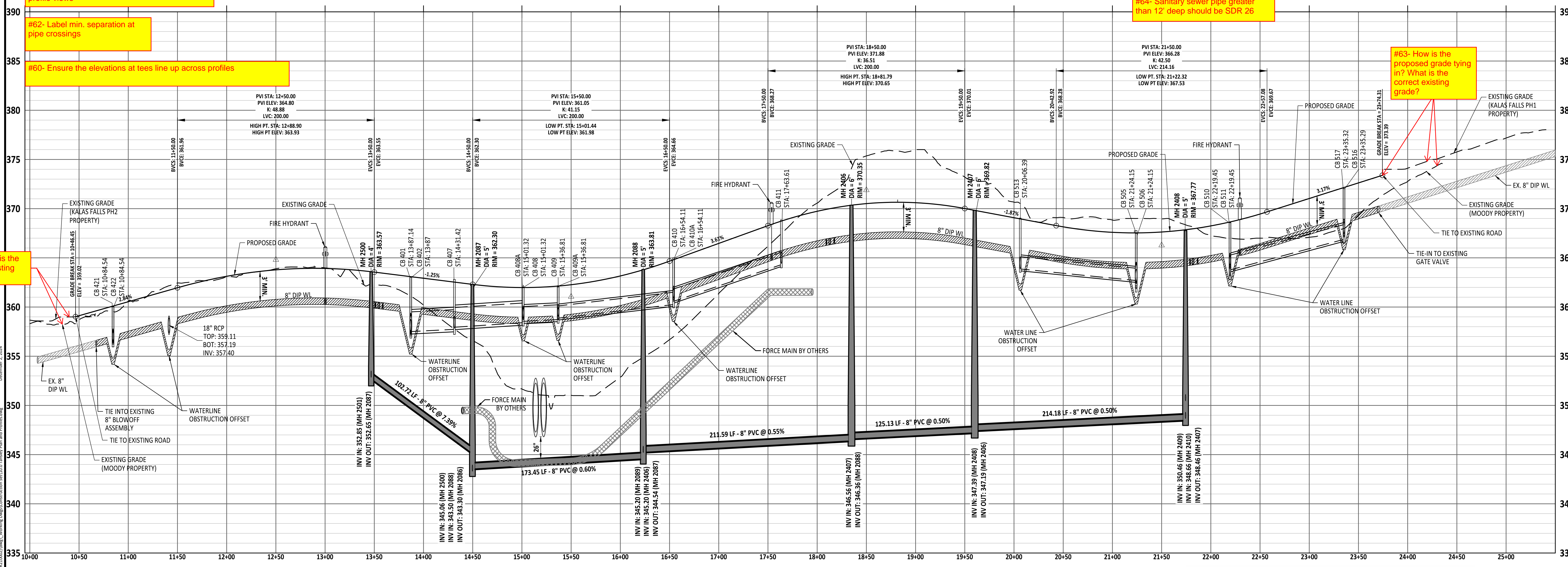
#62- Label min. separation at pipe crossings

#60- Ensure the elevations at tees line up across profiles

#64- Sanitary sewer pipe greater than 12' deep should be SDR 26

#63- How is the proposed grade tying in? What is the correct existing grade?

#63- What is the correct existing grade?



NO.	DATE	REVISION

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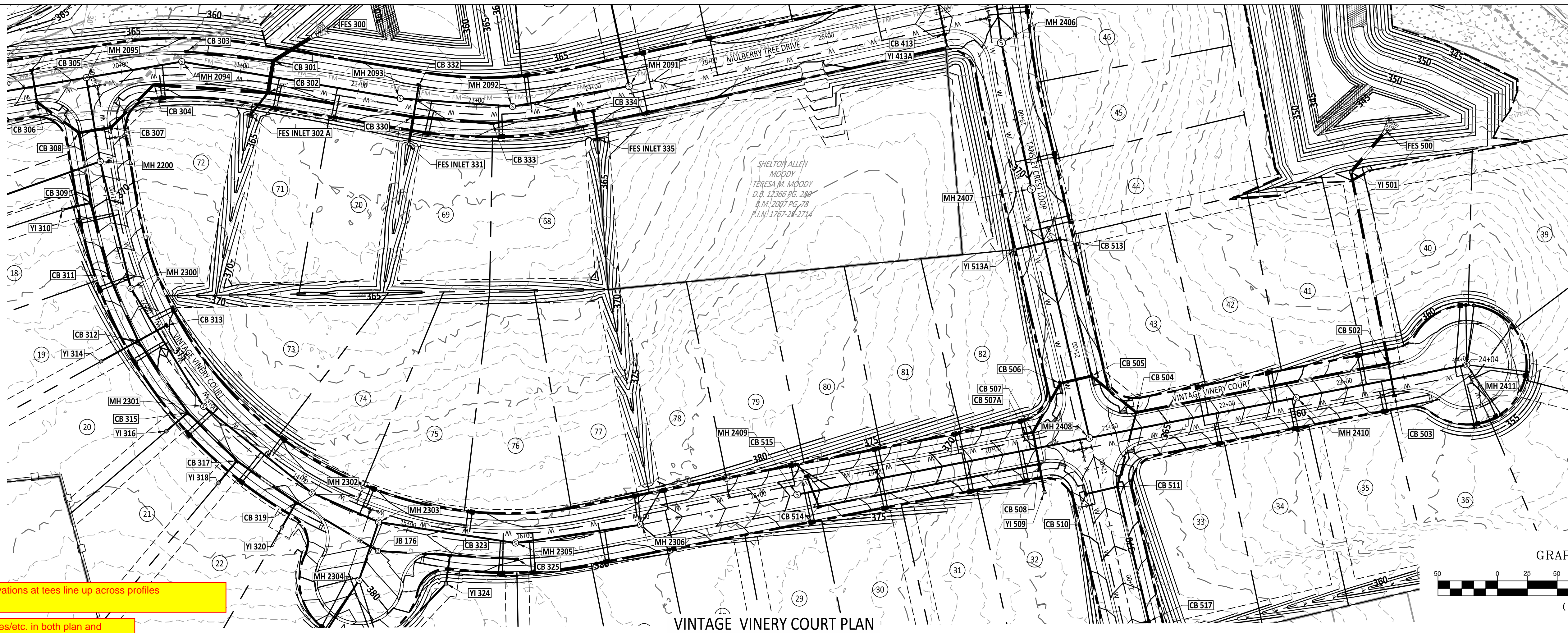
THE PRESERVE AT MOODY FARM
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 12/02/2024
SHEET TITLE:
TANSLEY CREST LOOP PLAN AND PROFILE

SHEET NO.:
C10.0

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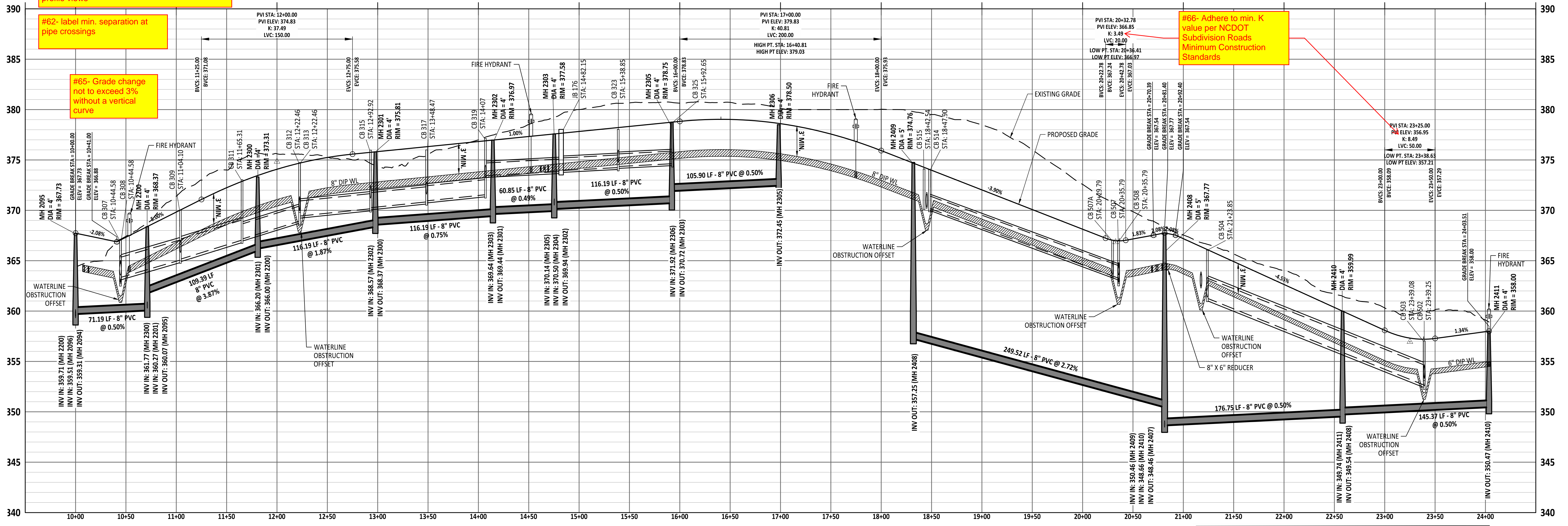
#60- Ensure the elevations at tees line up across profiles

#59- Label tees/valves/etc. in both plan and profile views

#62- label min. separation at pipe crossings

#65- Grade change not to exceed 3% without a vertical curve

#66- Adhere to min. K value per NCDOT Subdivision Roads Minimum Construction Standards



VINTAGE VINERY COURT PROFILE

NO.	DATE	REVISION

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THE PRESERVE AT MOODY FARM
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 12/02/2024
SHEET TITLE:

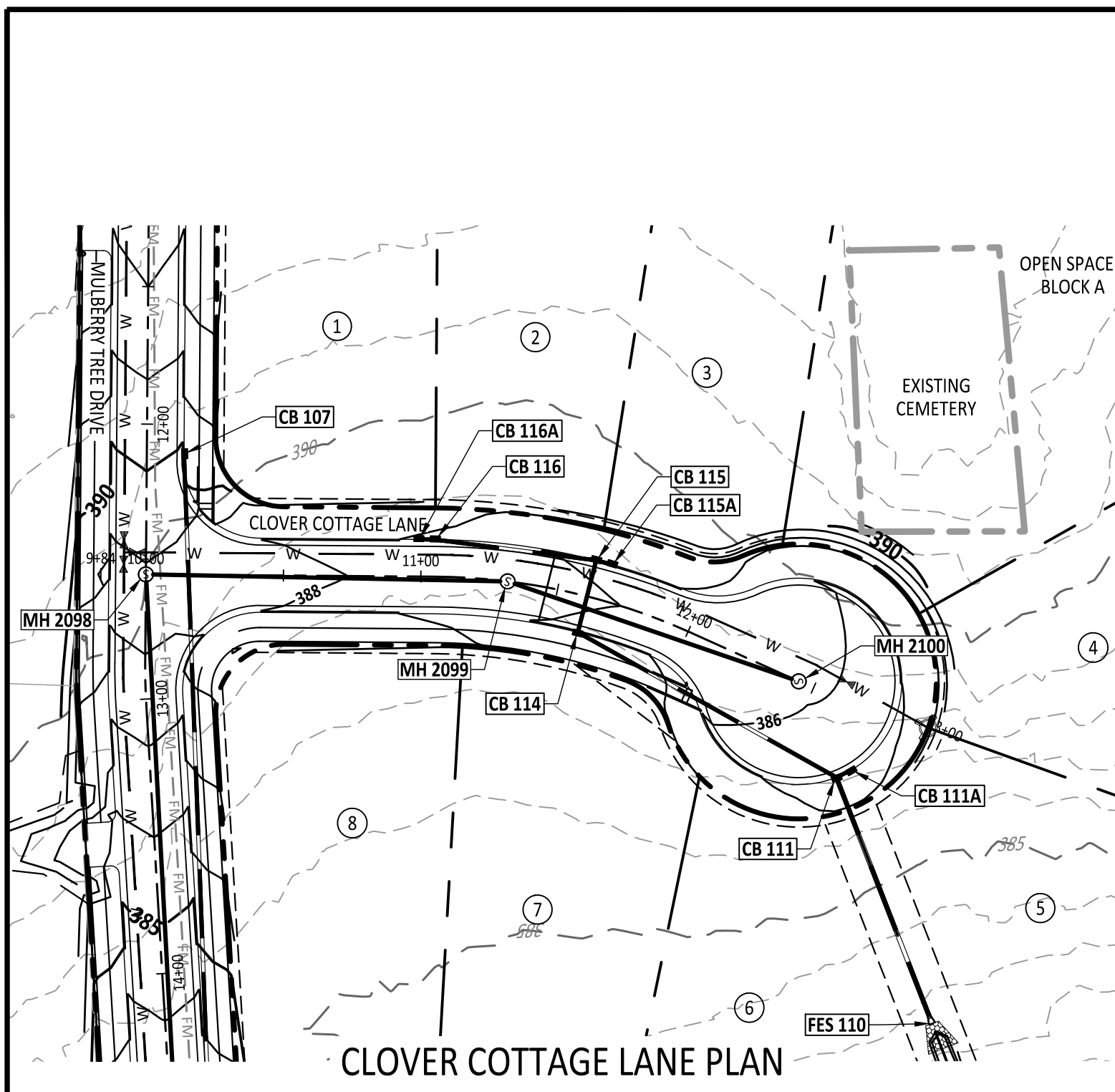
VINTAGE VINERY CT PLAN AND PROFILE

SHEET NO.: **C11.0**

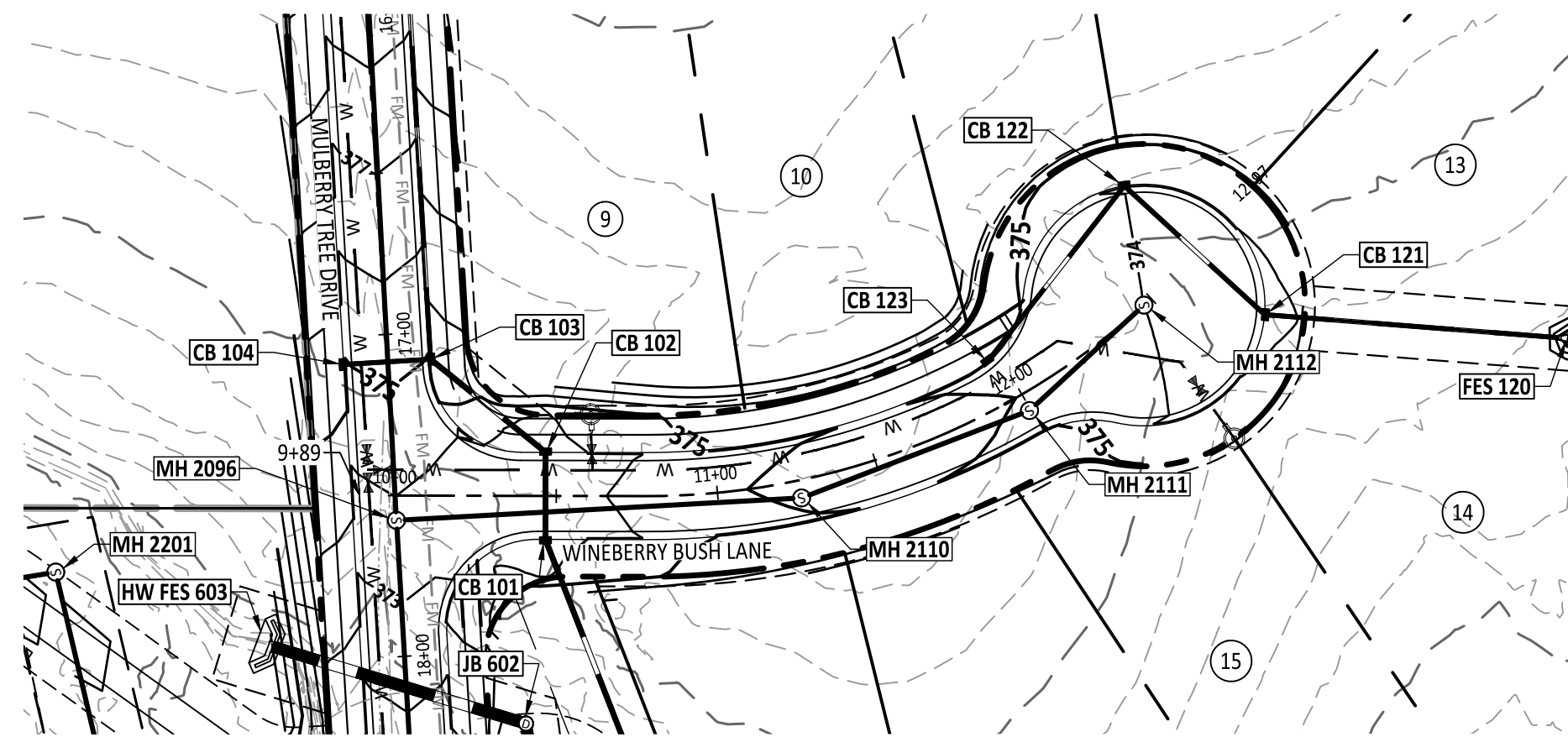
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Raleigh Water Review Officer

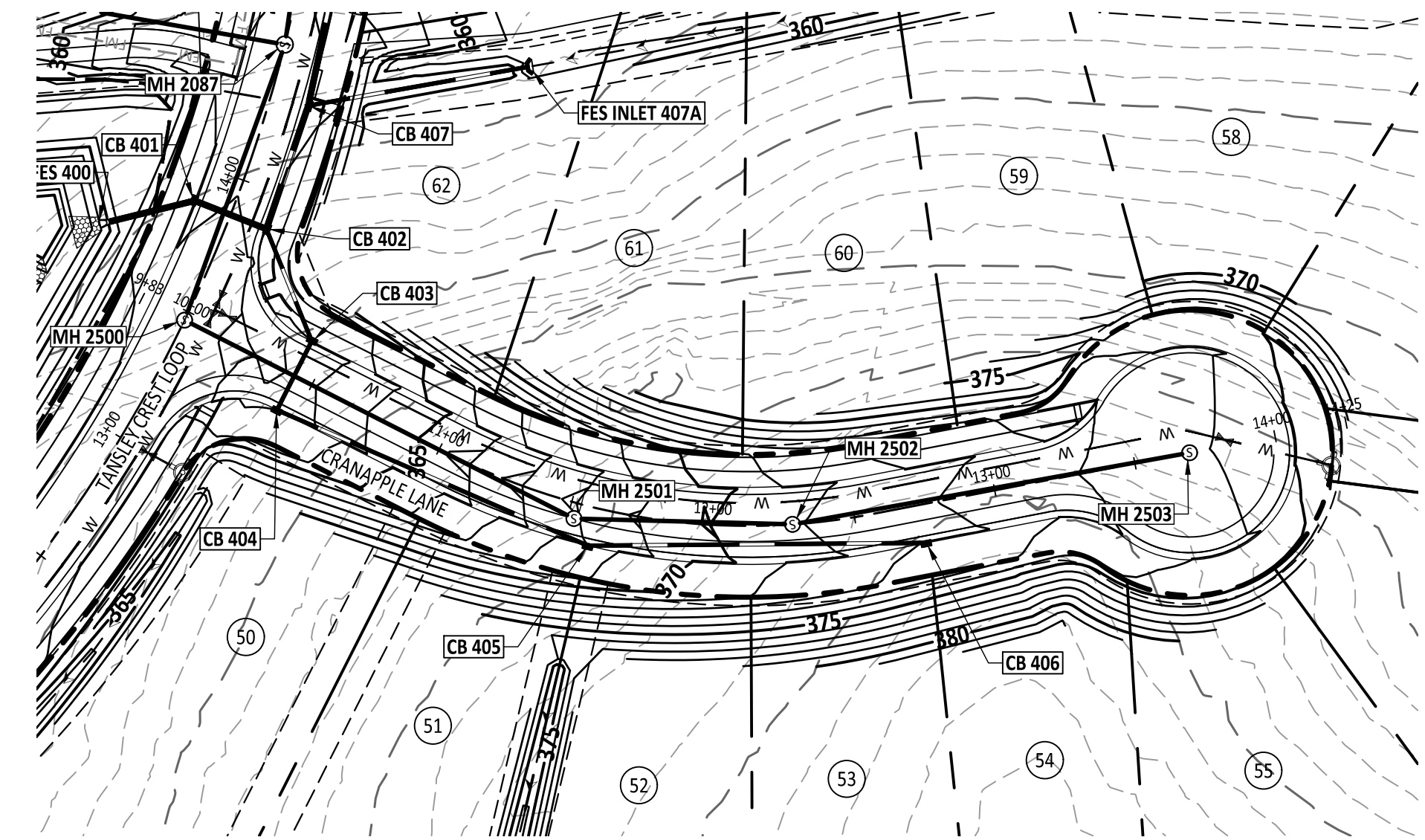




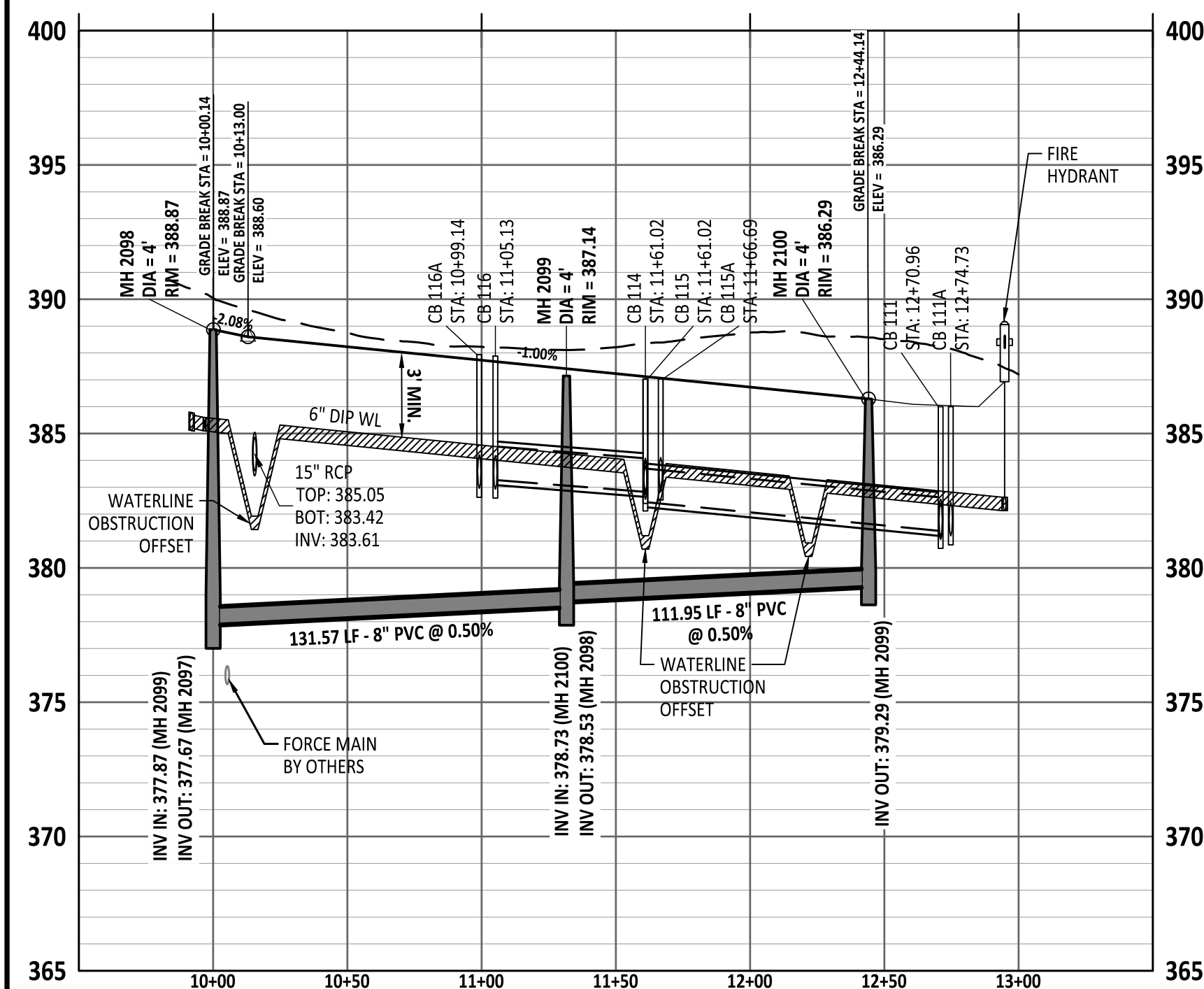
CLOVER COTTAGE LANE PLAN



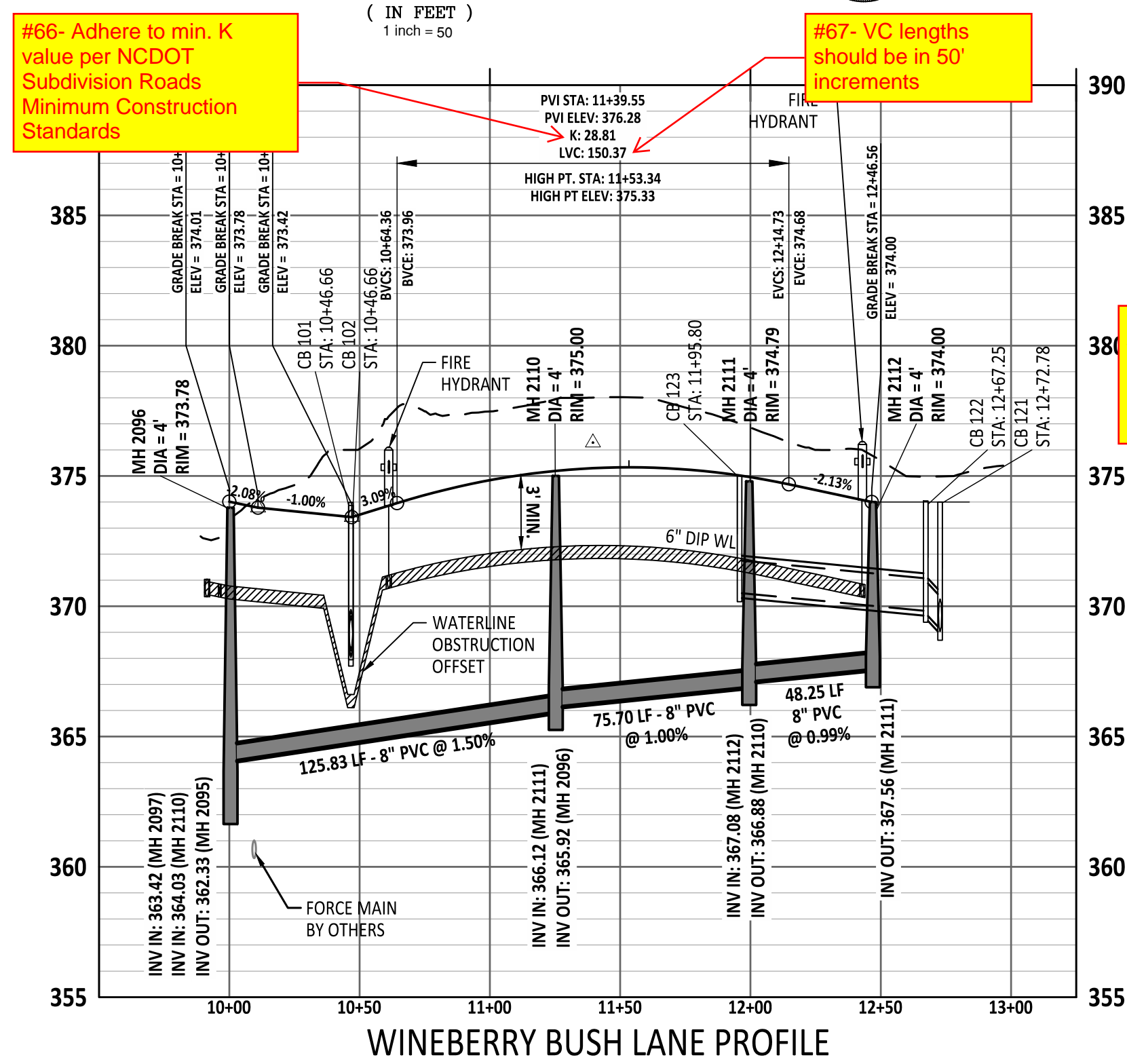
WINEBERRY BUSH LANE PLAN



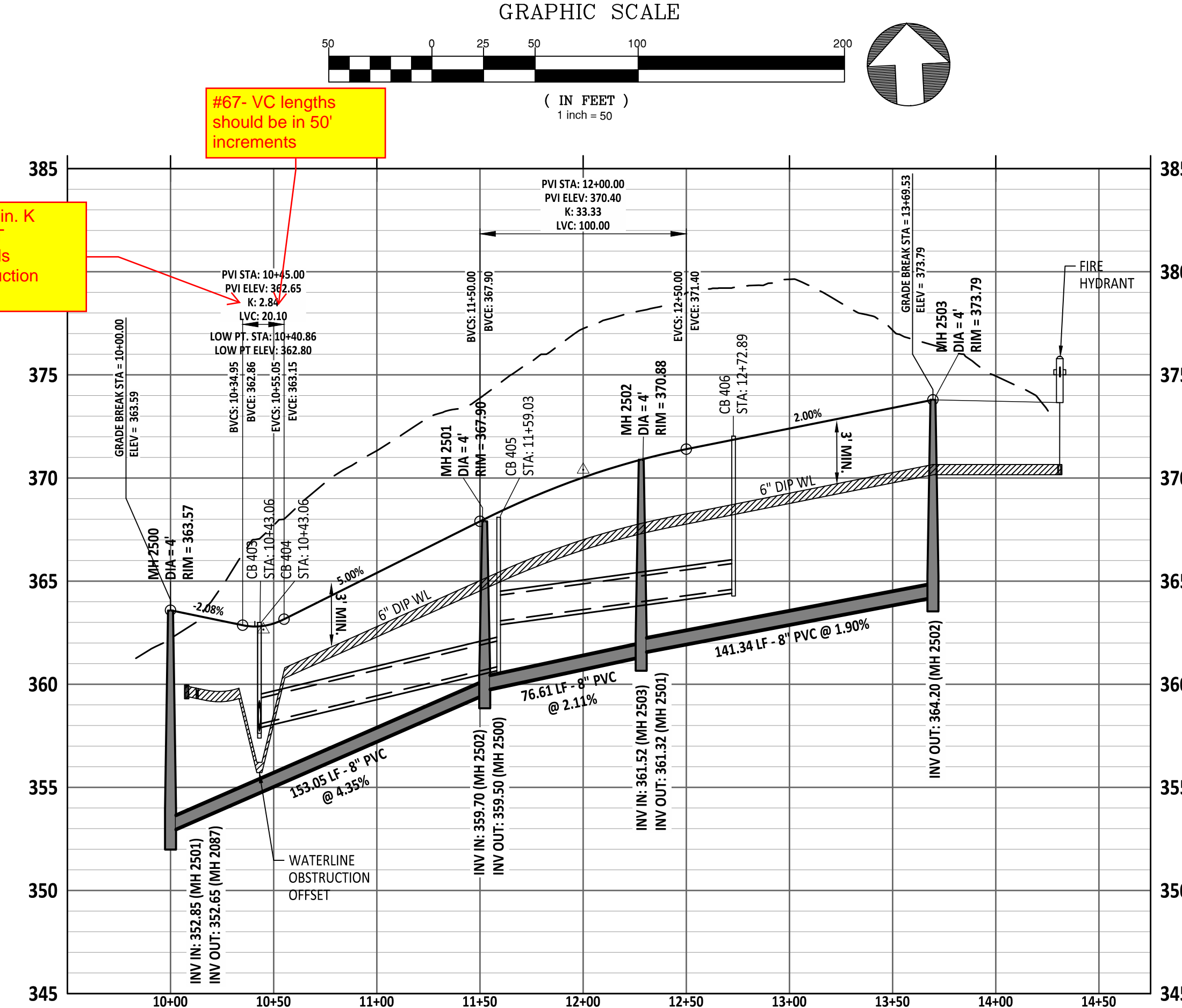
CRANAPPLE LANE PLAN



CLOVER COTTAGE LANE PROFILE



WINEBERRY BUSH LANE PROFILE



CRANAPPLE LANE PROFILE

#66- Adhere to min. K value per NCDOT Subdivision Roads Minimum Construction Standards

#67- VC lengths should be in 50' increments

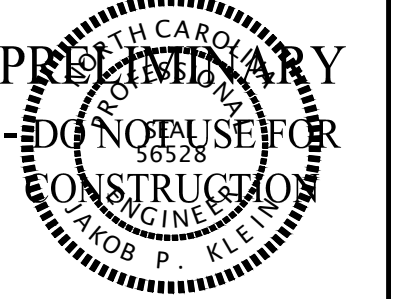
#67- VC lengths should be in 50' increments

#66- Adhere to min. K value per NCDOT Subdivision Roads Minimum Construction Standards

#60- Ensure the elevations at tees line up across profiles

#59- Label tees/valves/etc. in both plan and profile views

#62- Label min. separation at pipe crossings



NO.	DATE	REVISION:

STIPULATION FOR REUSE
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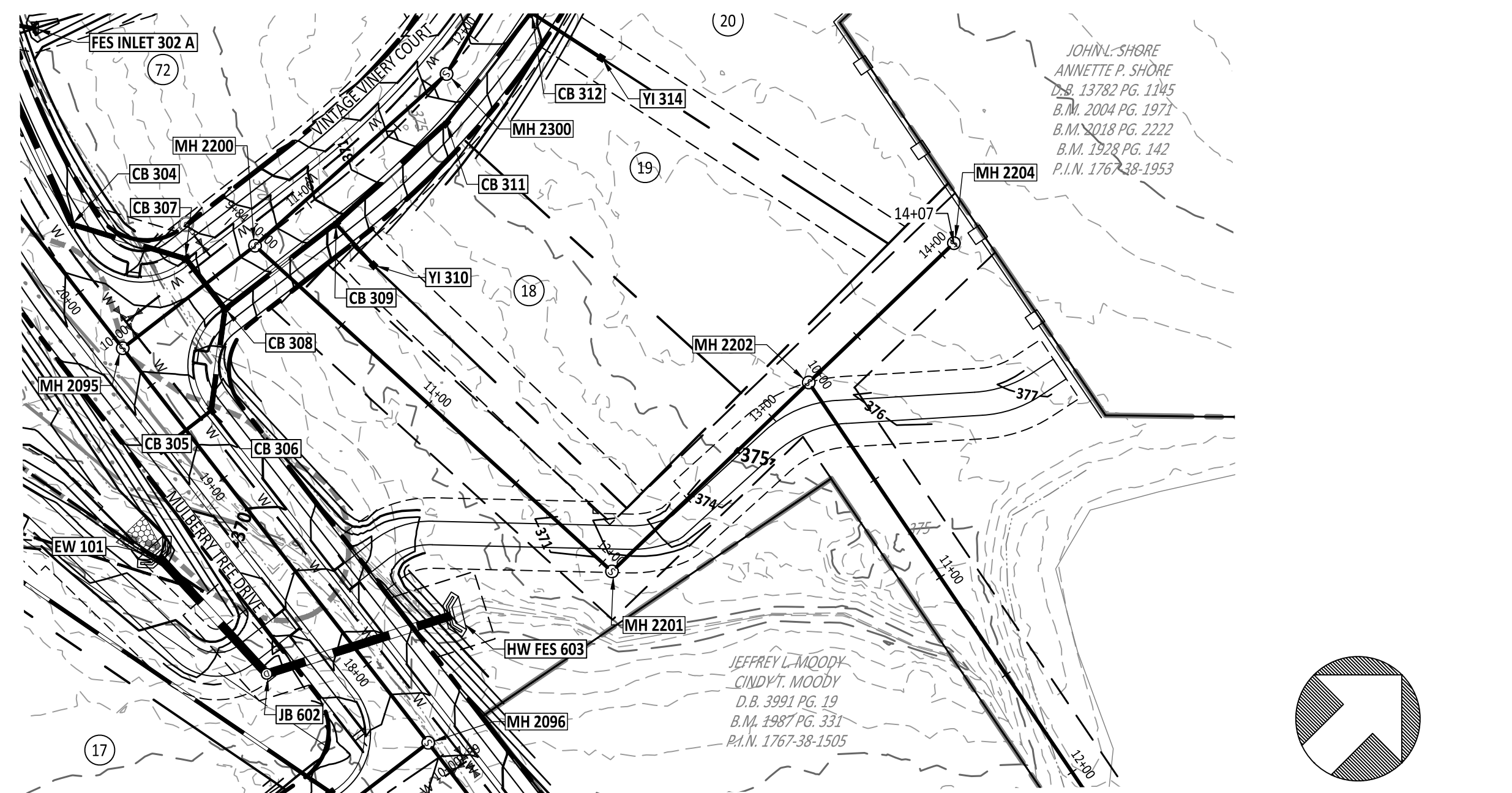
THE PRESERVE AT MOODY FARM
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 12/02/2024
SHEET TITLE: CUL-DE-SAC AND STUB PLAN AND PROFILES
SHEET NO.: C12.0

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION
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City of Raleigh Development Approval _____
Raleigh Water Review Officer

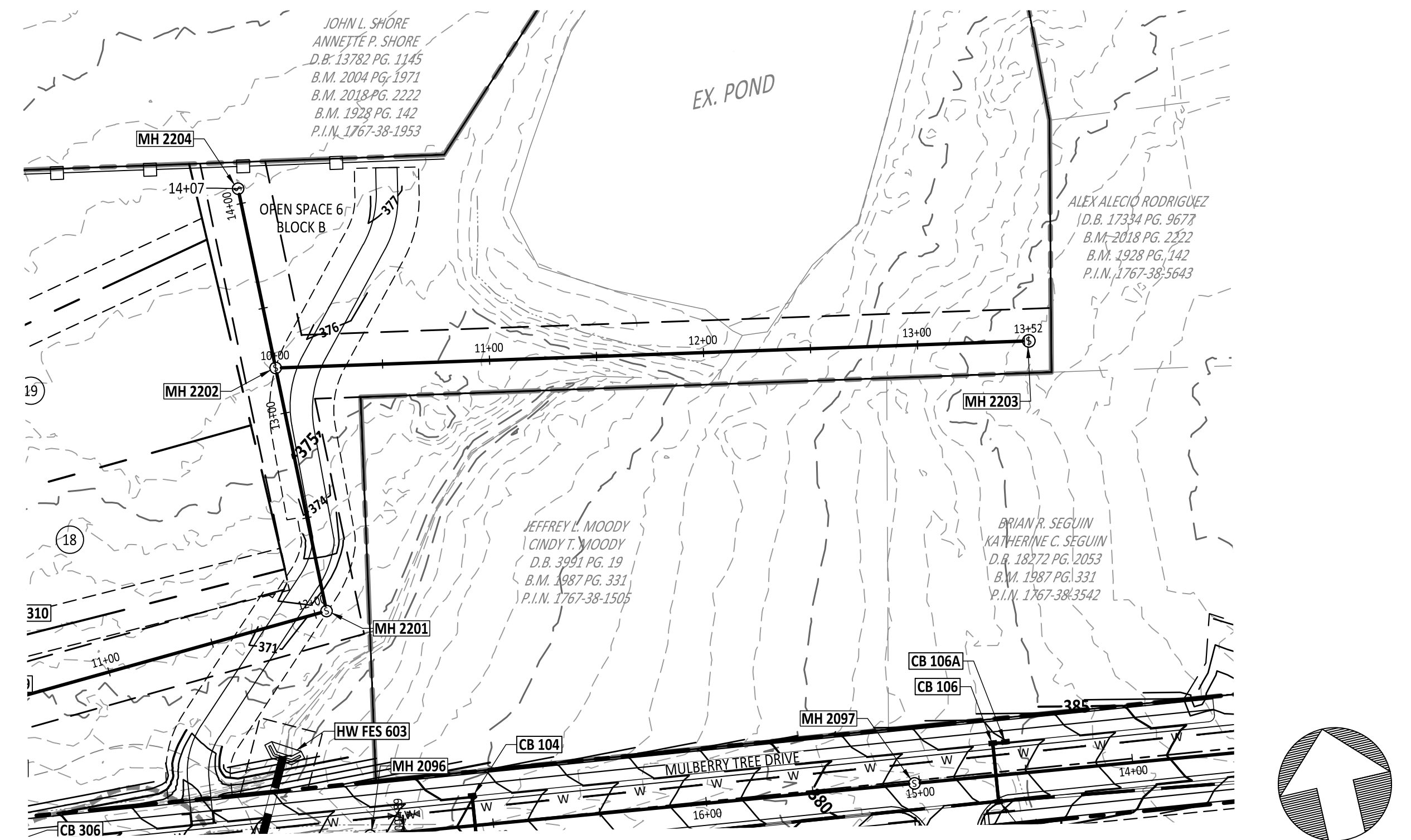
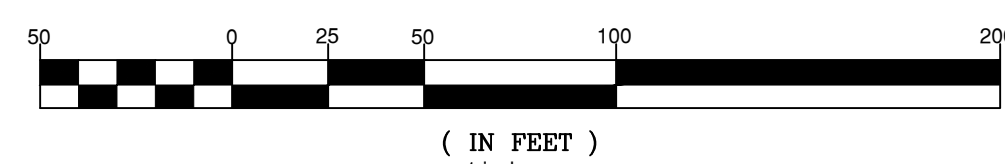


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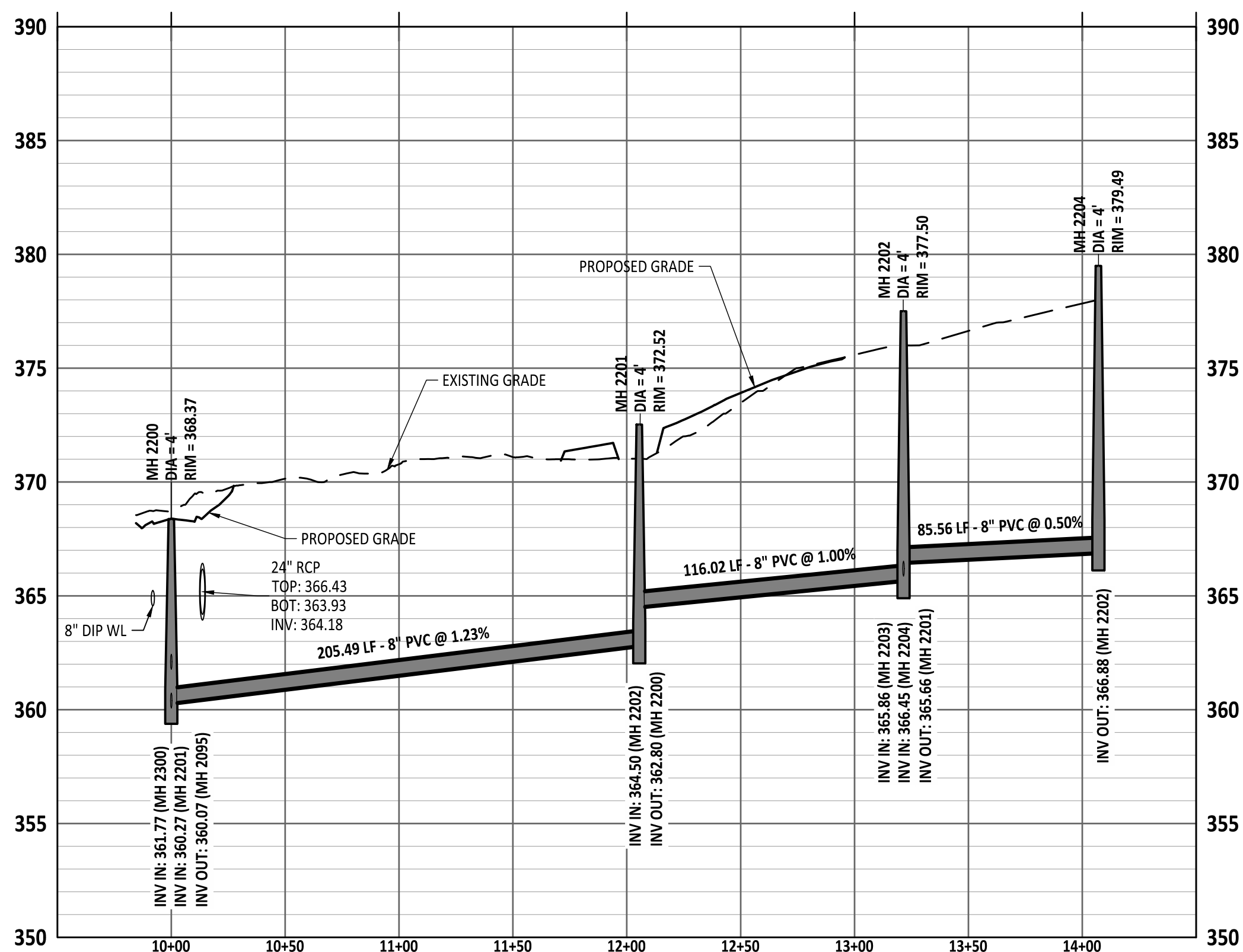
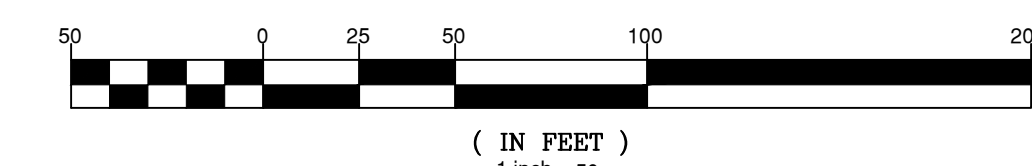
SEWER OUTFALL (A) AT VINTAGE VINERY COURT PLAN

GRAPHIC SCALE

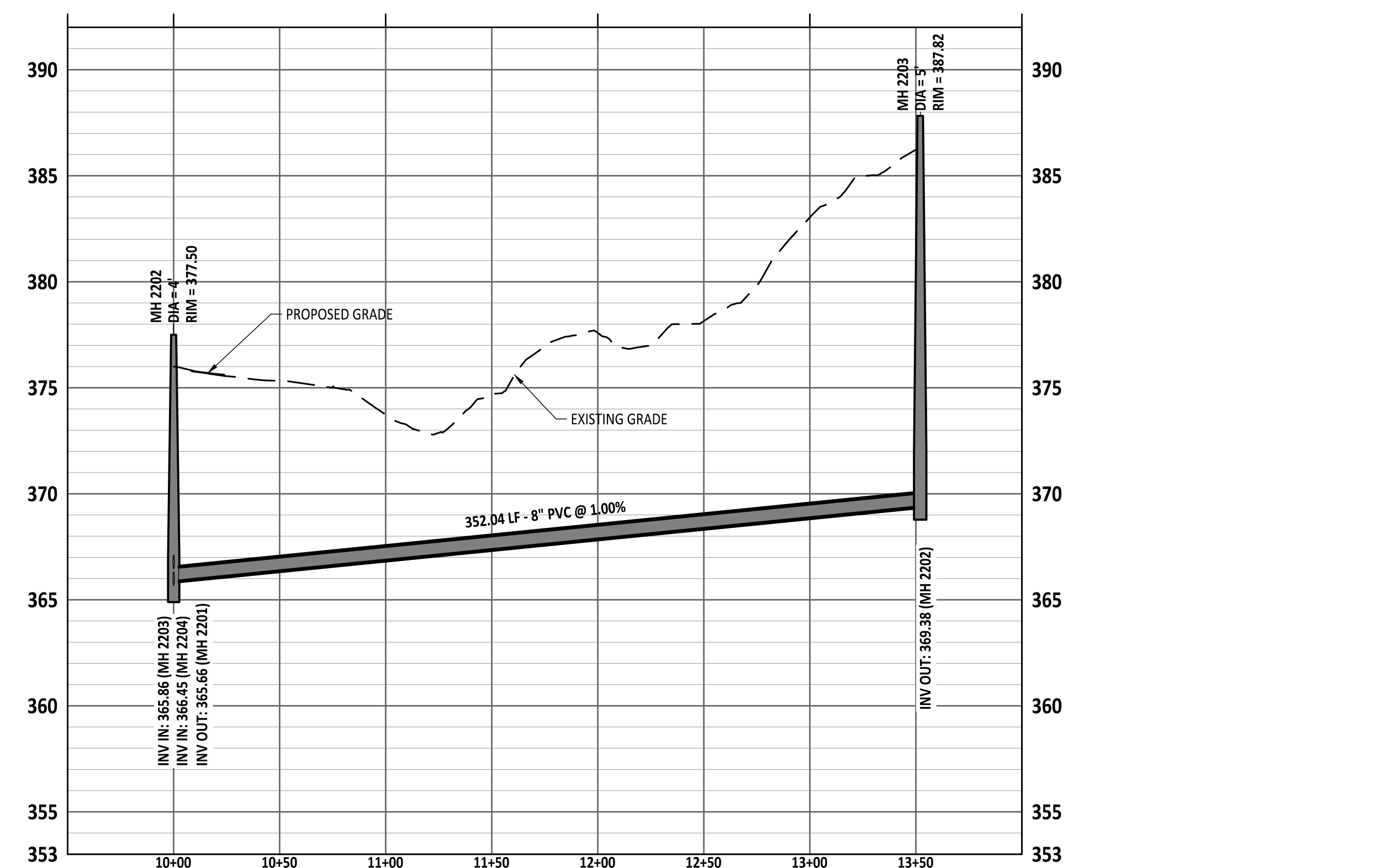


SEWER OUTFALL (B) AT VINTAGE VINERY COURT PLAN

GRAPHIC SCALE



SEWER OUTFALL (A) AT VINTAGE VINERY COURT PROFILE



SEWER OUTFALL (B) AT VINTAGE VINERY COURT PROFILE

NO.	DATE	REVISION

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THE PRESERVE AT MOODY FARM
ROLESVILLE ROAD
WAKE COUNTY, NC

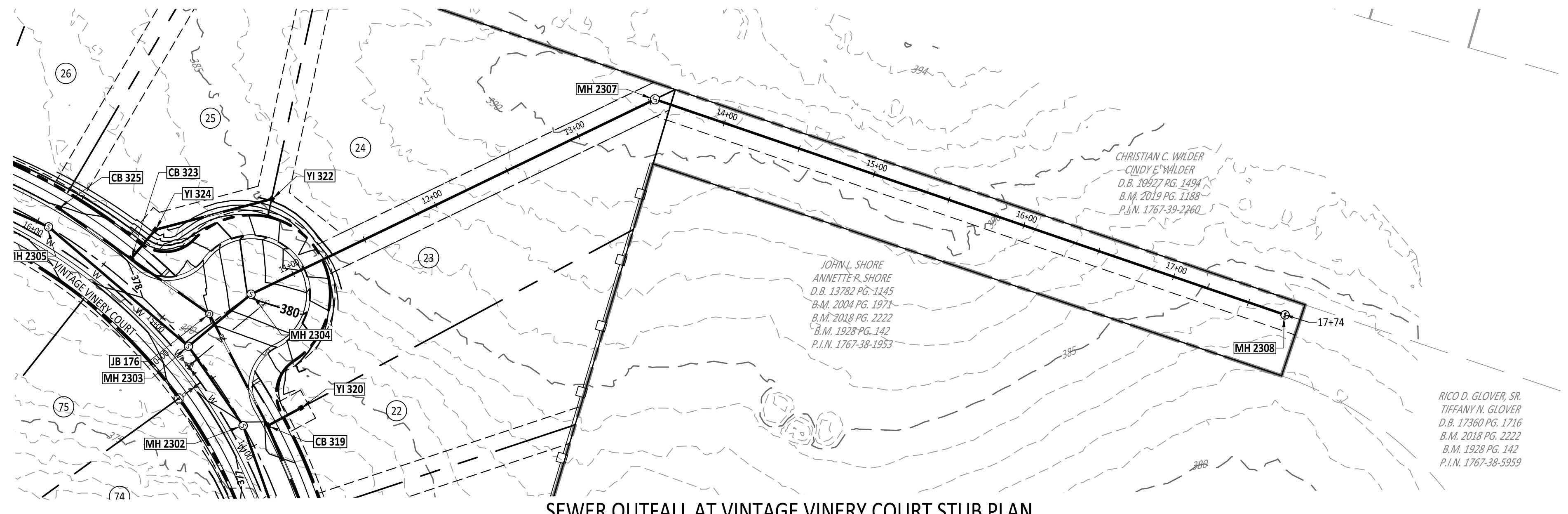
JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 12/02/2024
SHEET TITLE:

SEWER OUTFALL
SHEET NO.: **C13.0**

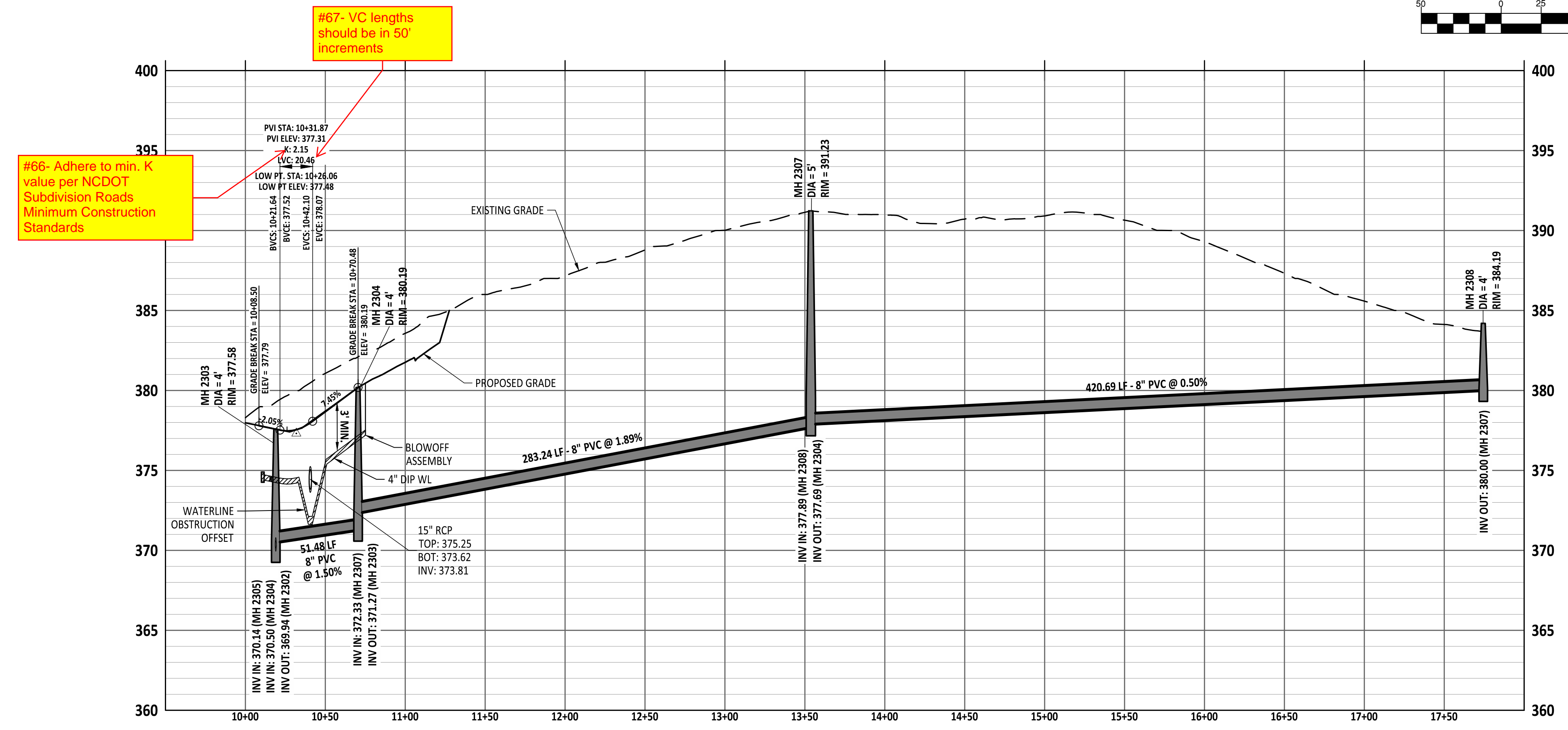
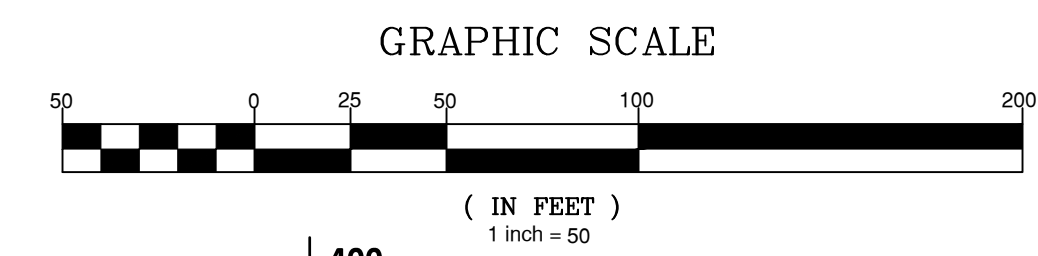
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Z:\web\11_002_Moody_Development\Trac\B2100003\Draw\Working\Draw\Construction\Set\13.0 Sewer Outfall Plans and Profile.dwg December 2, 2024



SEWER OUTFALL AT VINTAGE VINERY COURT STUB PLAN



SEWER OUTFALL AT VINTAGE VINERY COURT STUB PROFILE

#62- Label min. separation at pipe crossings

#60- Ensure the elevations at tees line up across profiles

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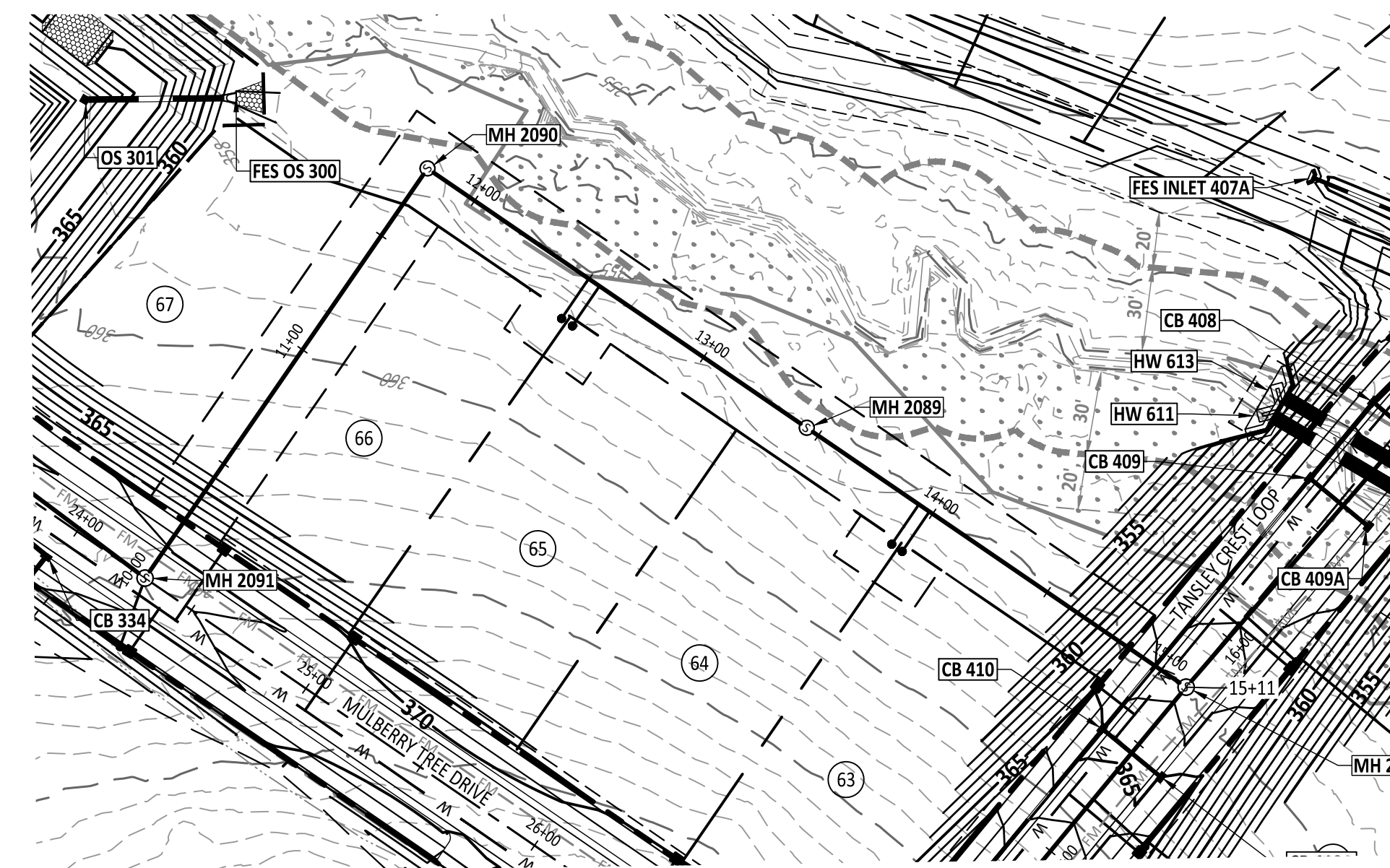
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SHEET TITLE:

SEWER OUTFALL

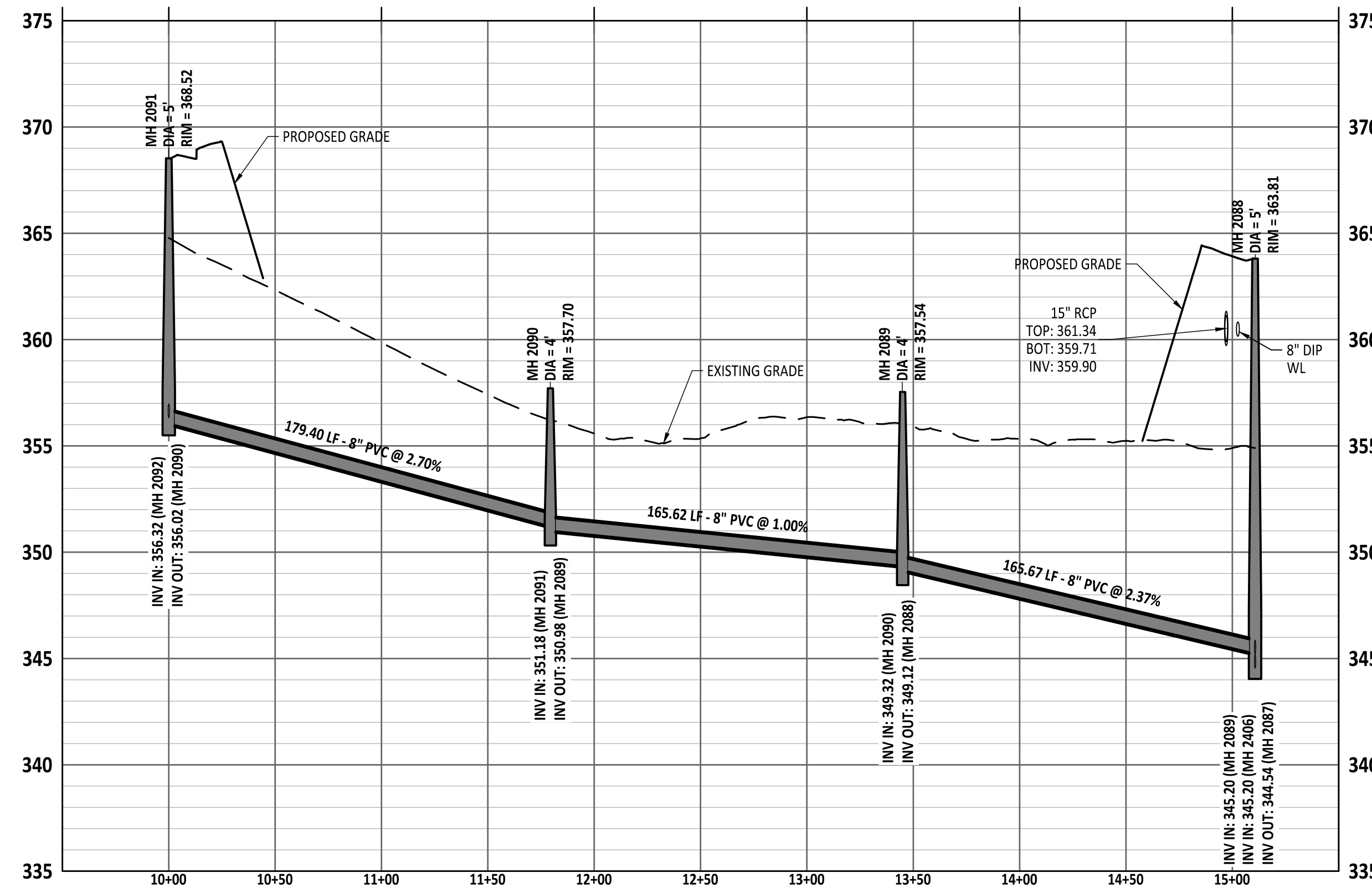
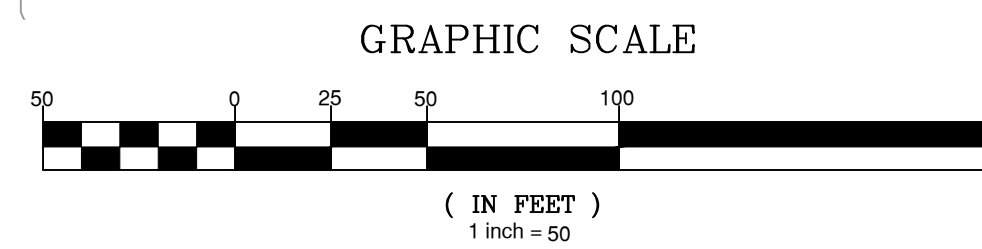
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SEWER OUTFALL AT MULBERRY AND TANSLY PLAN



SEWER OUTFALL AT MULBERRY AND TANSLY PROFILE

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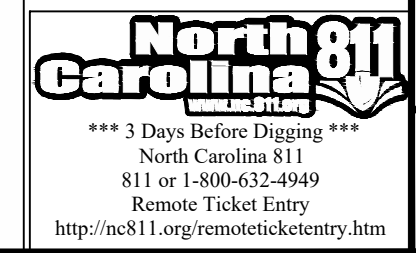
THE PRESERVE
AT
MOODY FARM
ROLESVILLE ROAD
WAKE COUNTY, NC

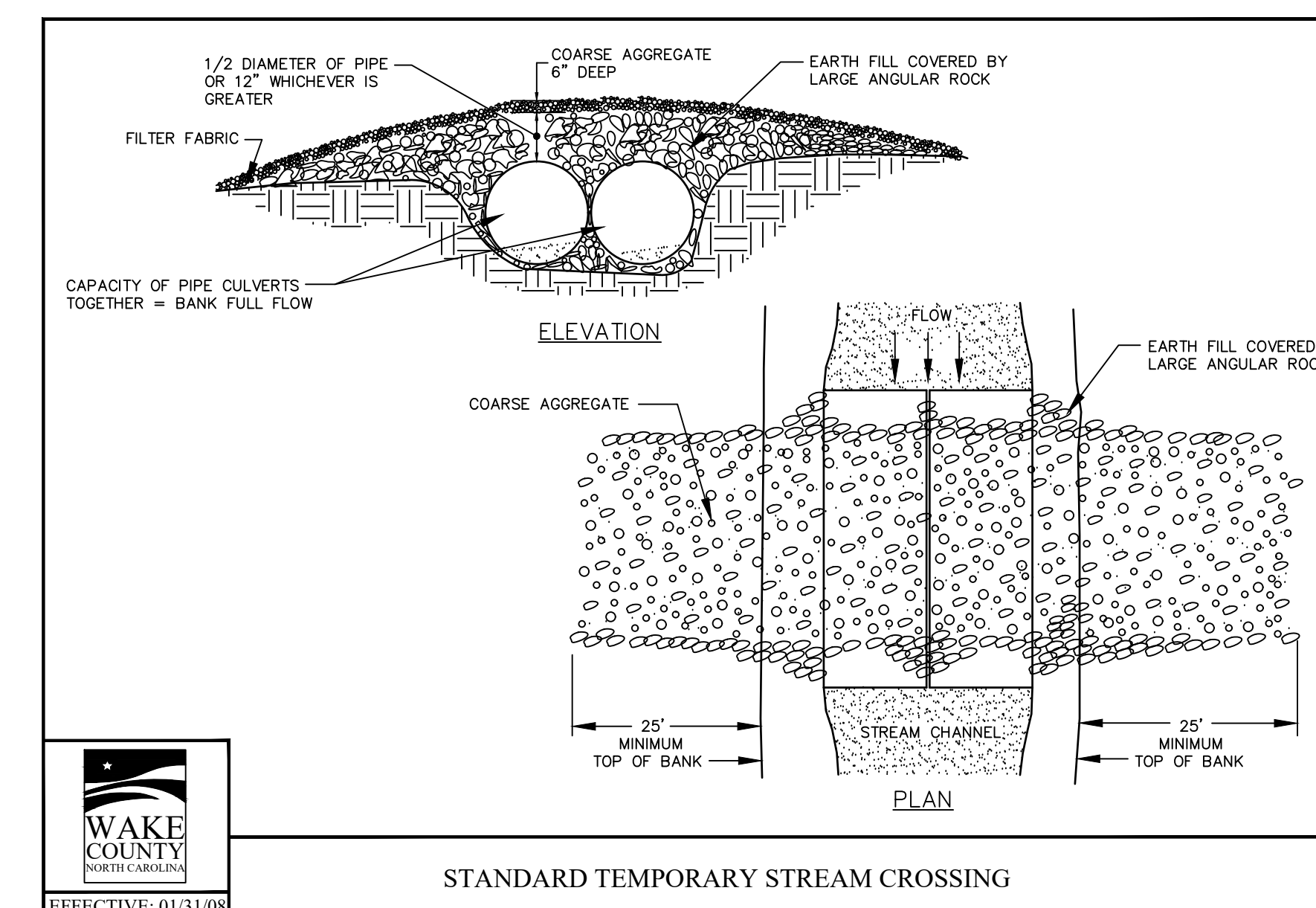
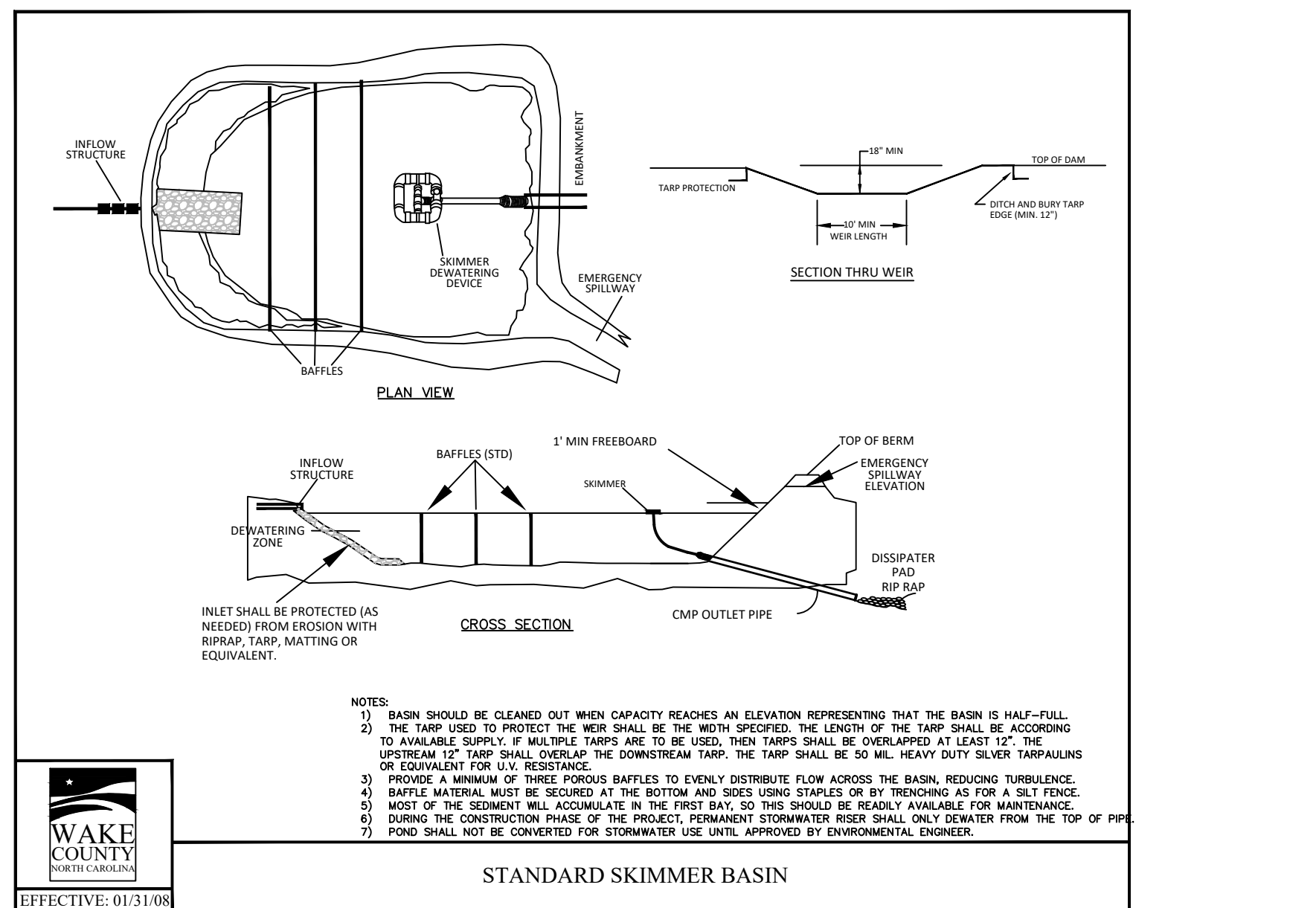
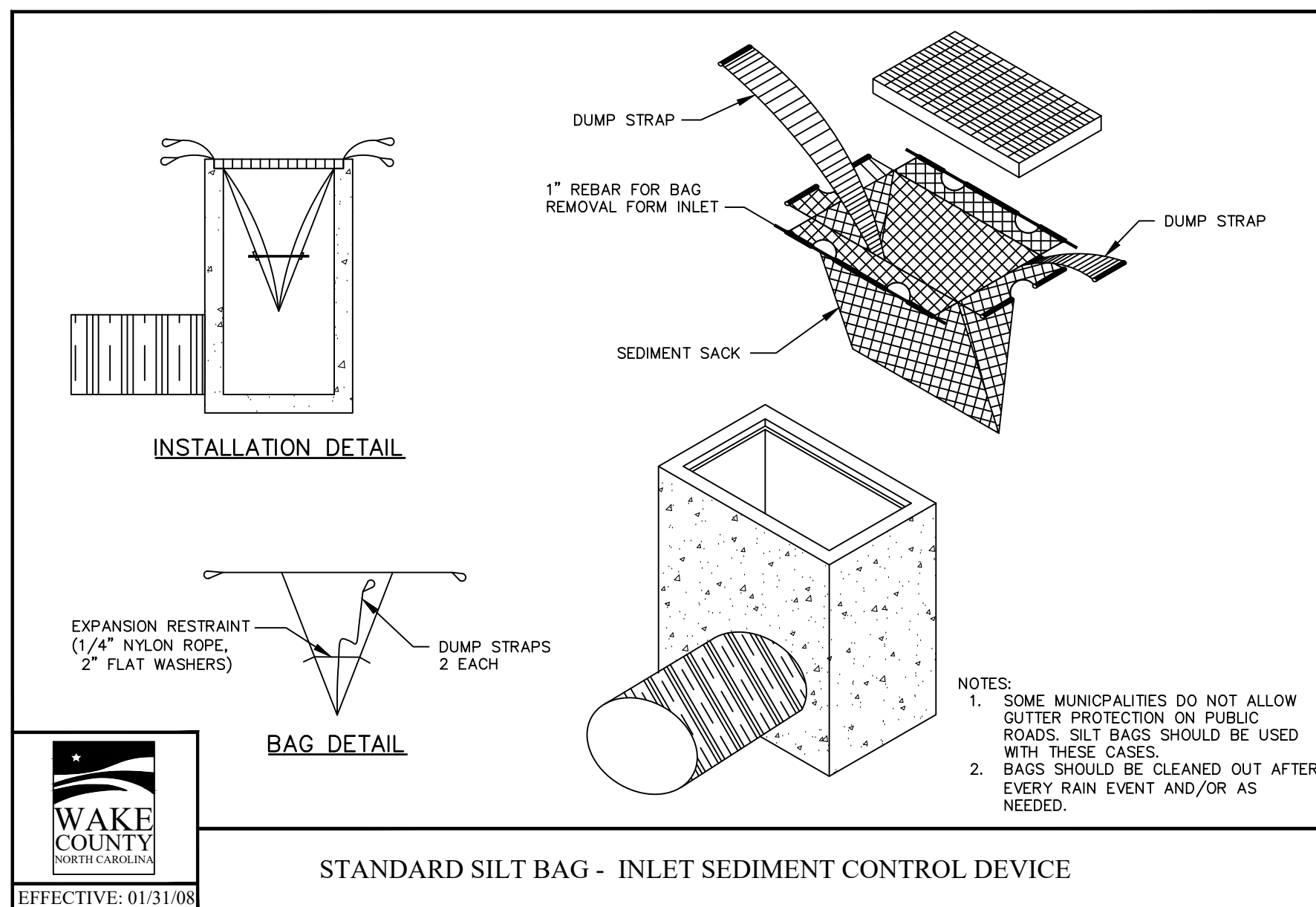
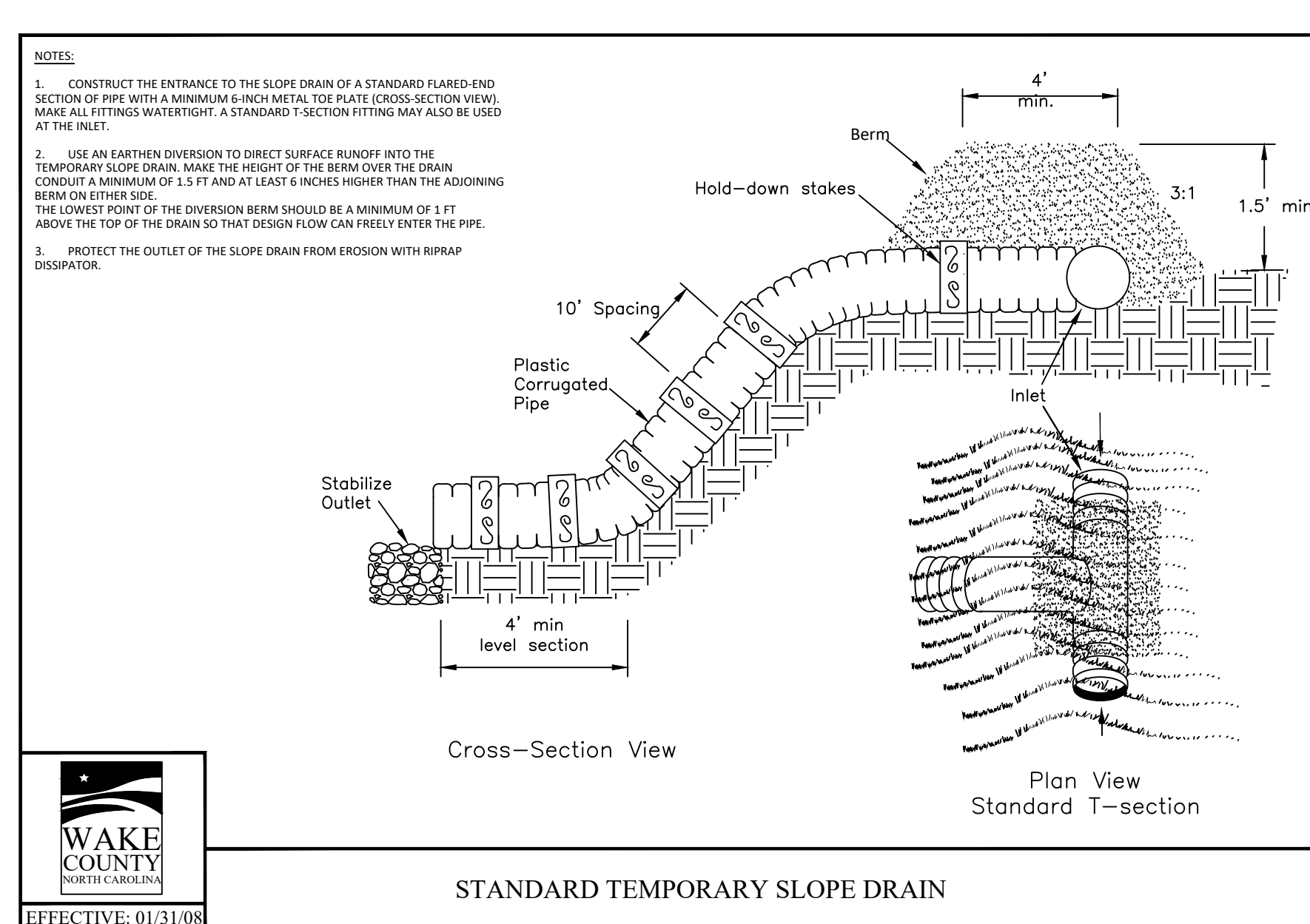
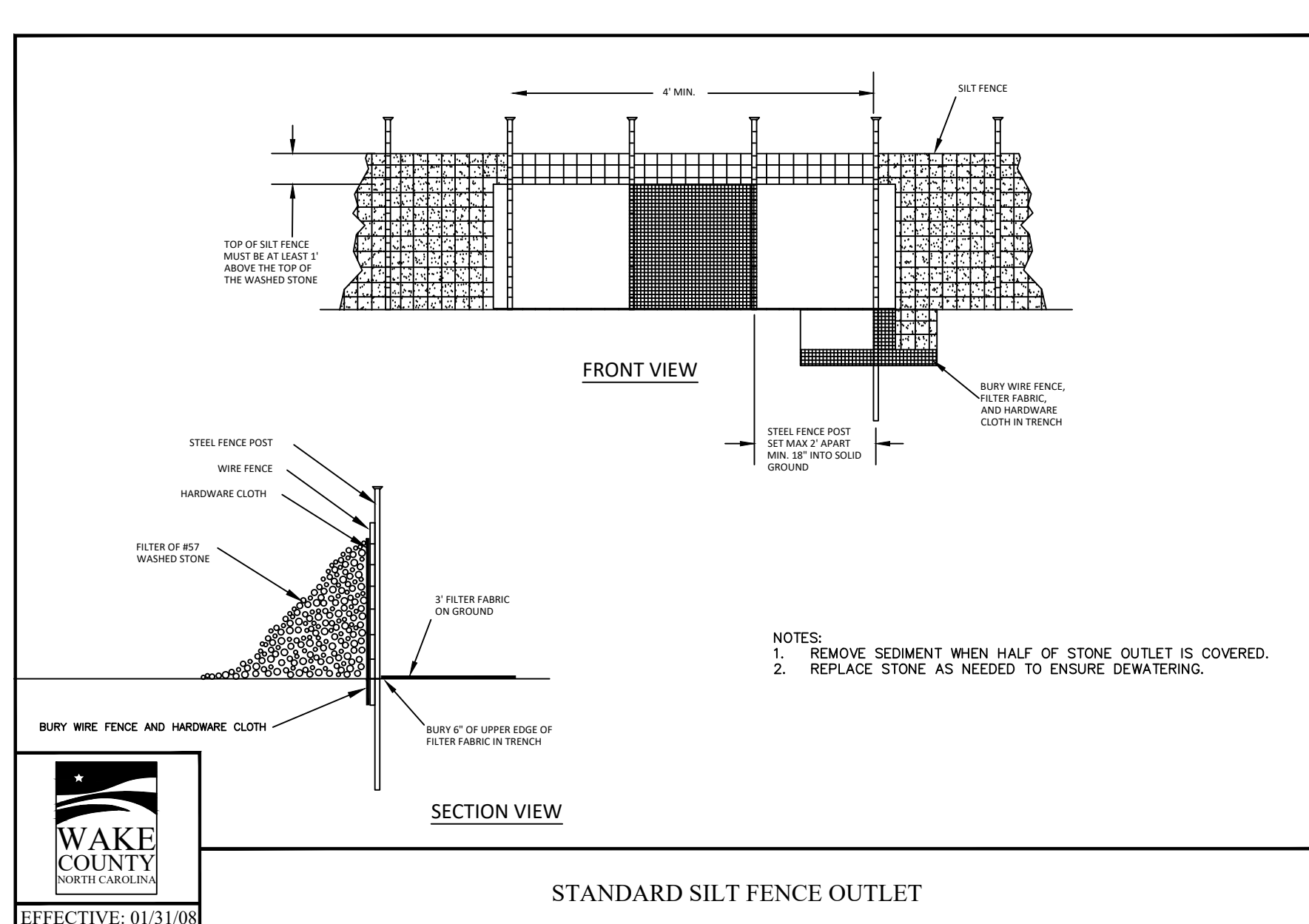
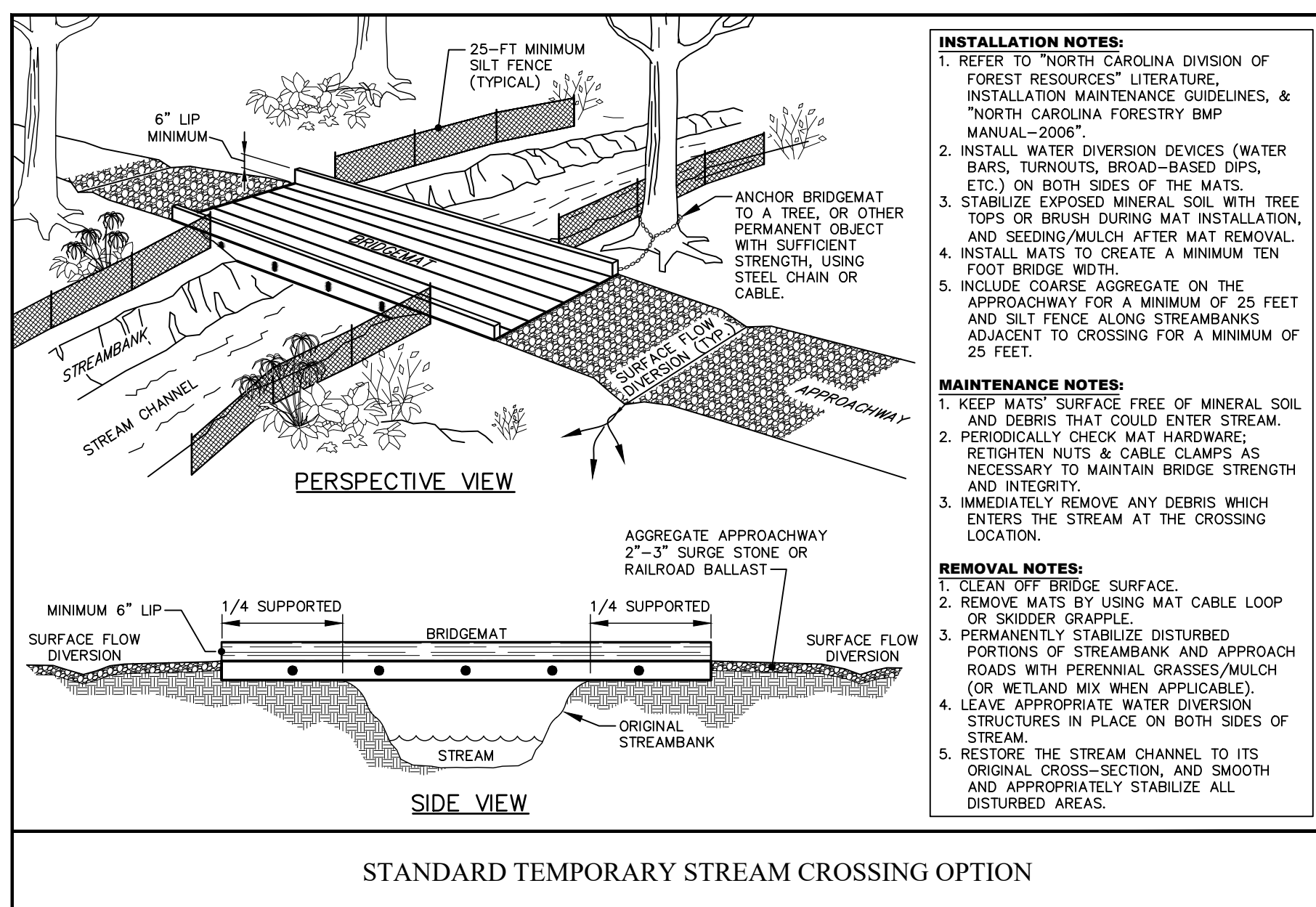
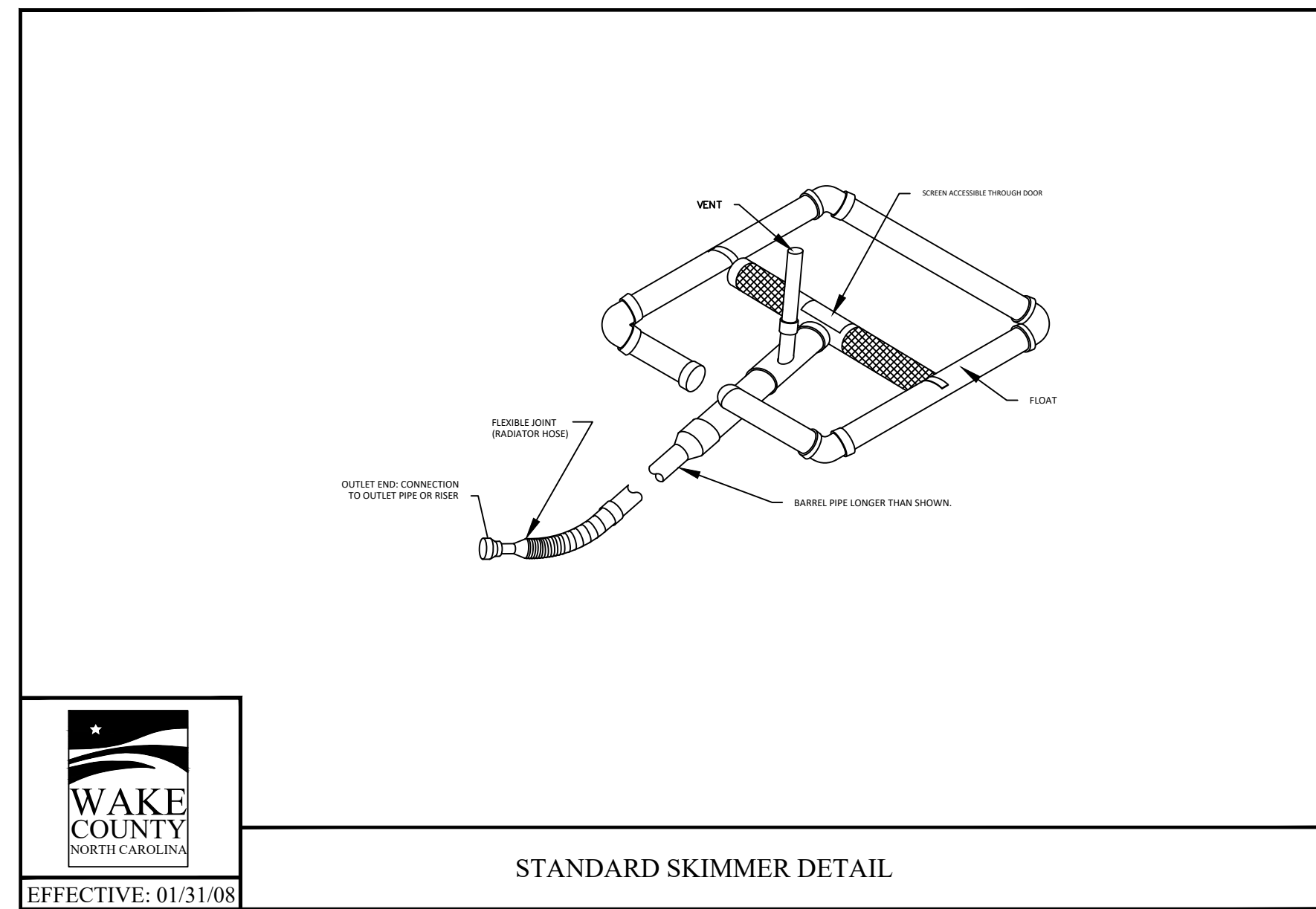
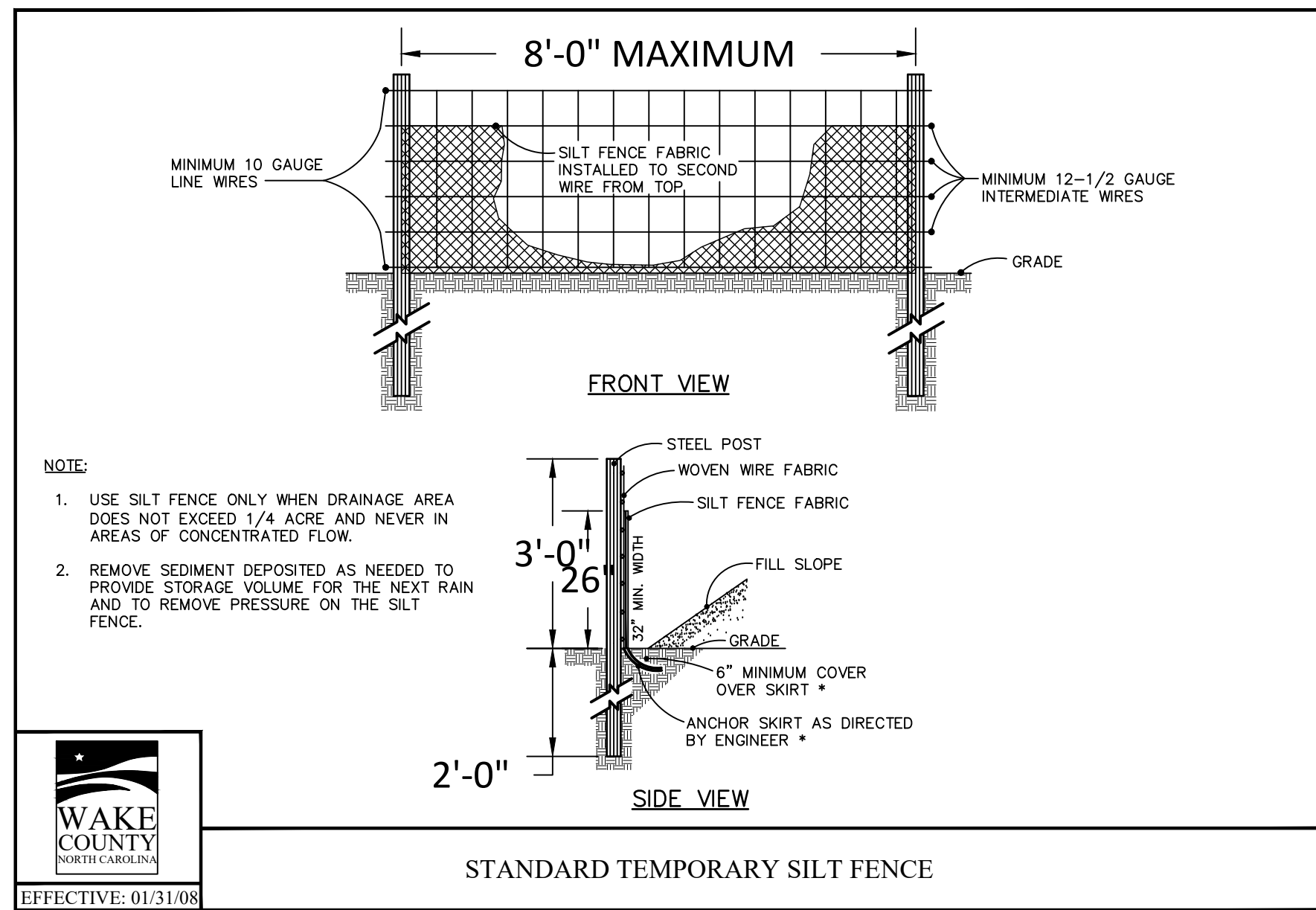
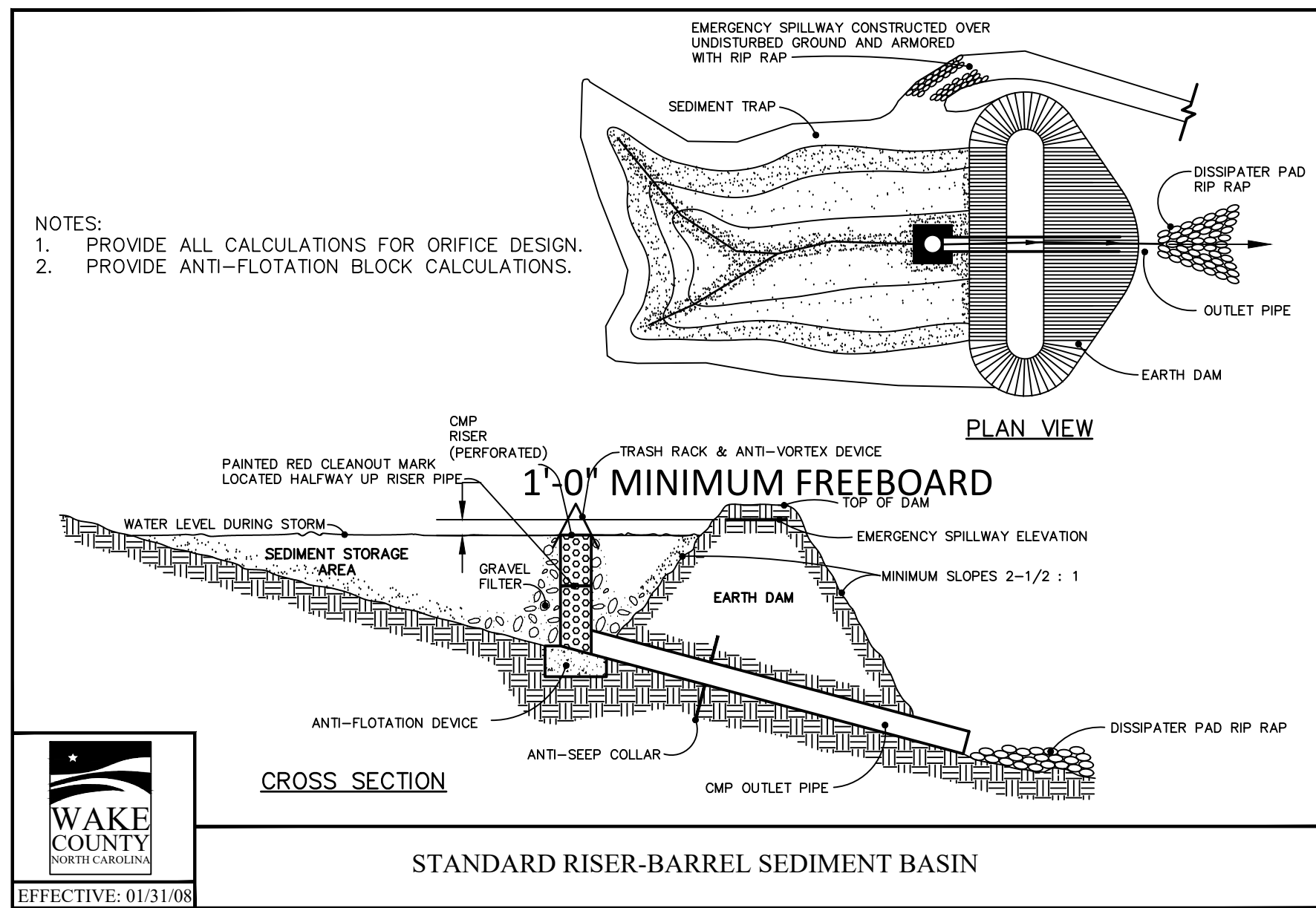
JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 12/02/2024
SHEET TITLE:

SEWER OUTFALL

SHEET NO.:
C13.2

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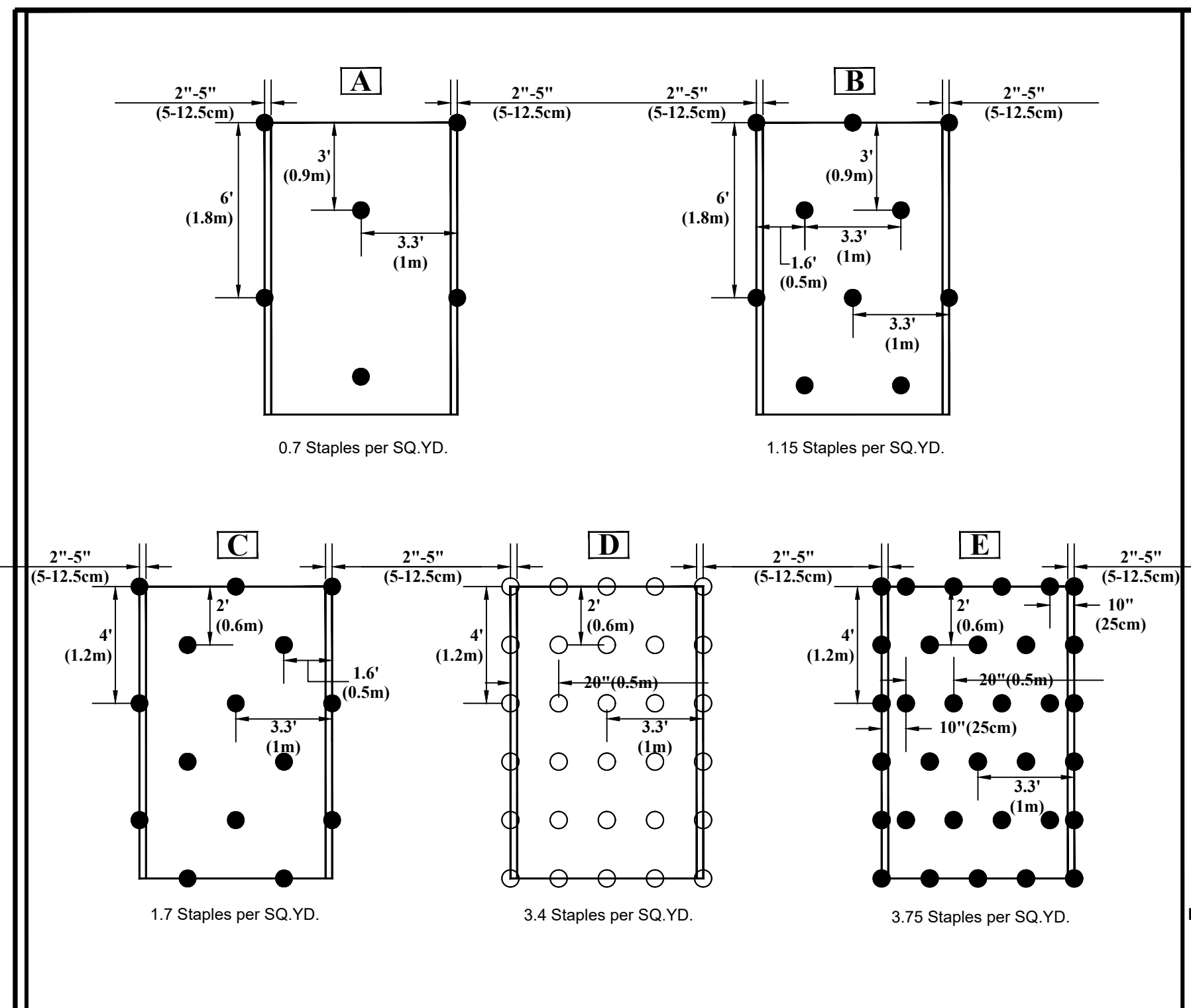
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THE PRESERVE AT MOODY FARM
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
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 DRAWN BY: RC & SM
 DATE: 12/02/2024
 SHEET TITLE:
EROSION CONTROL DETAILS
 SHEET NO.:
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STAPLE PATTERN GUIDE

- 4:1 Slopes (A)
- 3:1 Slopes (B)
- 2:1 Slopes (C)
- 1:1 & Steeper Slopes (D)
- Medium/High Flow Channel (E)
- High Flow Channel And Shoreline (E)

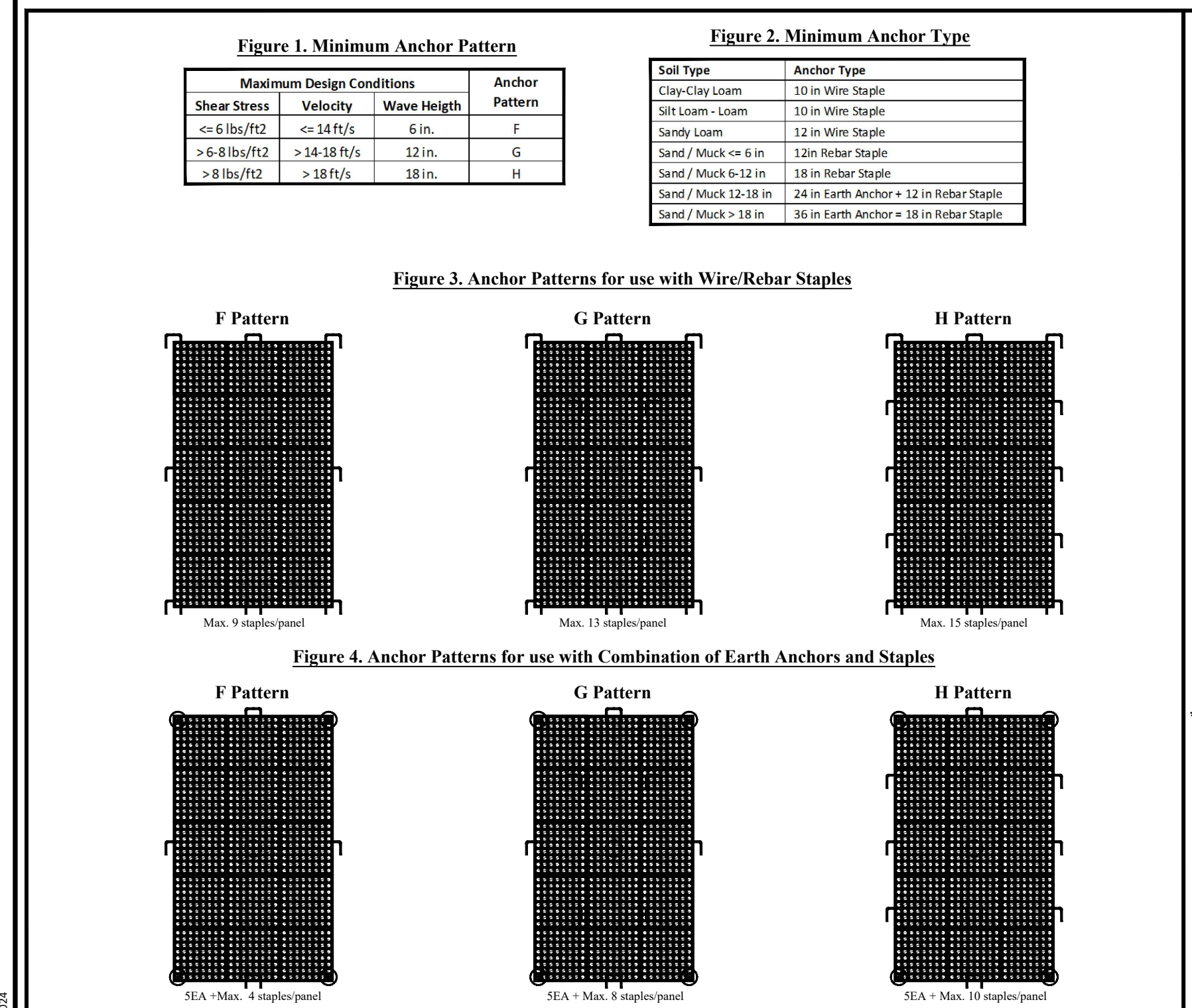
NOTES:

- * Use ECMDS[®] for more accurate staple pattern selection.

Disclaimers:
The information presented herein is general design information only. For specific applications, consult an independent professional for further design guidance.

5401 St. Wendel - Cynthia Rd. POseville, IN 47633
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ShoreMax ANCHORING GUIDE

- When installing ShoreMax mat, the anchor pattern (figure 3 or 4) should be selected based on the expected maximum design conditions (shear stress, velocity, or wave impact) (figure 1).
- Anchor selection should be based on the soil type and pull-out strength required (figure 2). In soft, highly erodible soils percussion earth anchors may be necessary. Earth anchors can be installed in conjunction with rebar staples (figure 4).
- When using percussion earth anchors, position anchors in each corner and the center of the panel. Place staples in the appropriate pattern through remainder of mat. Staples can be shared between two adjacent panels.

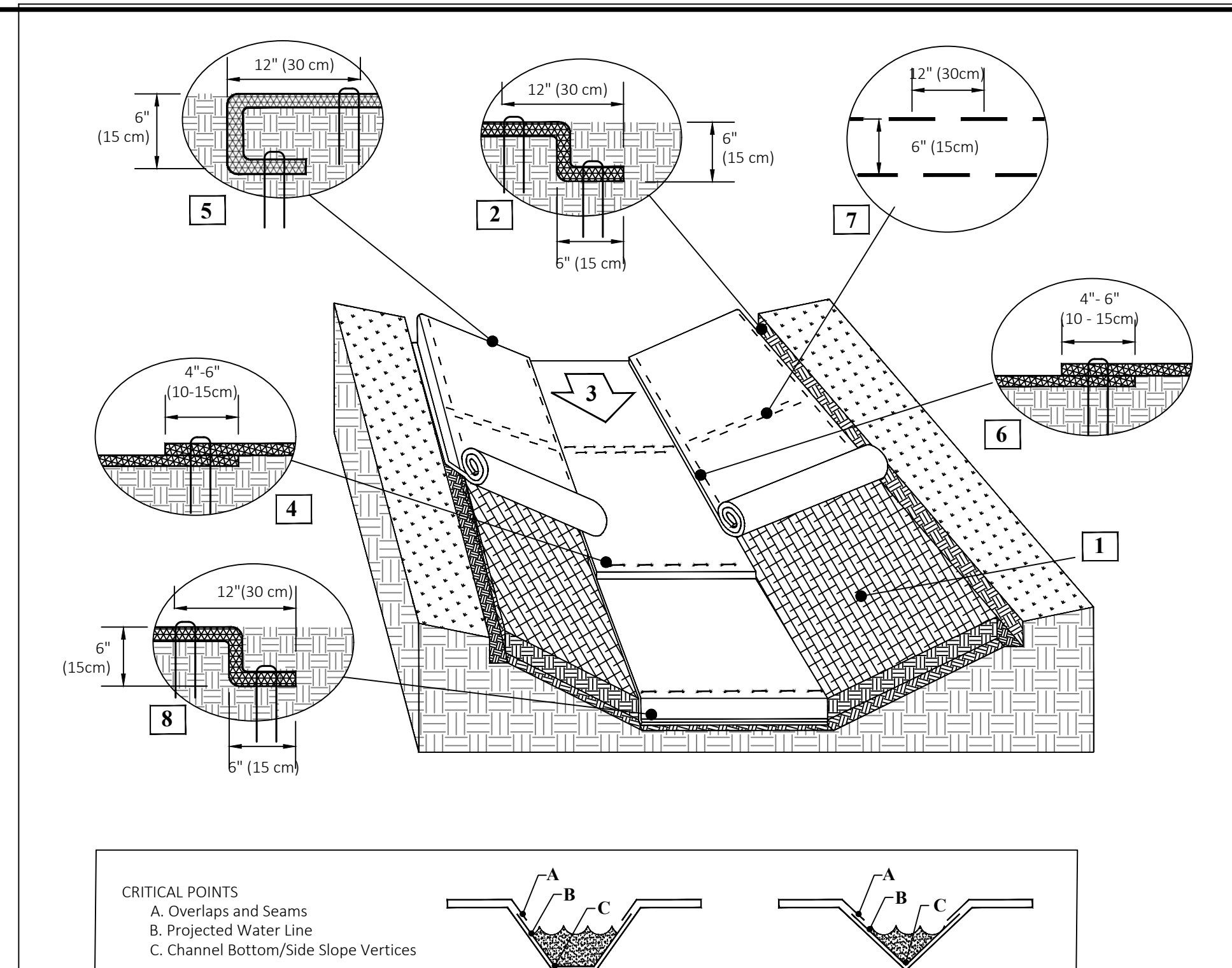
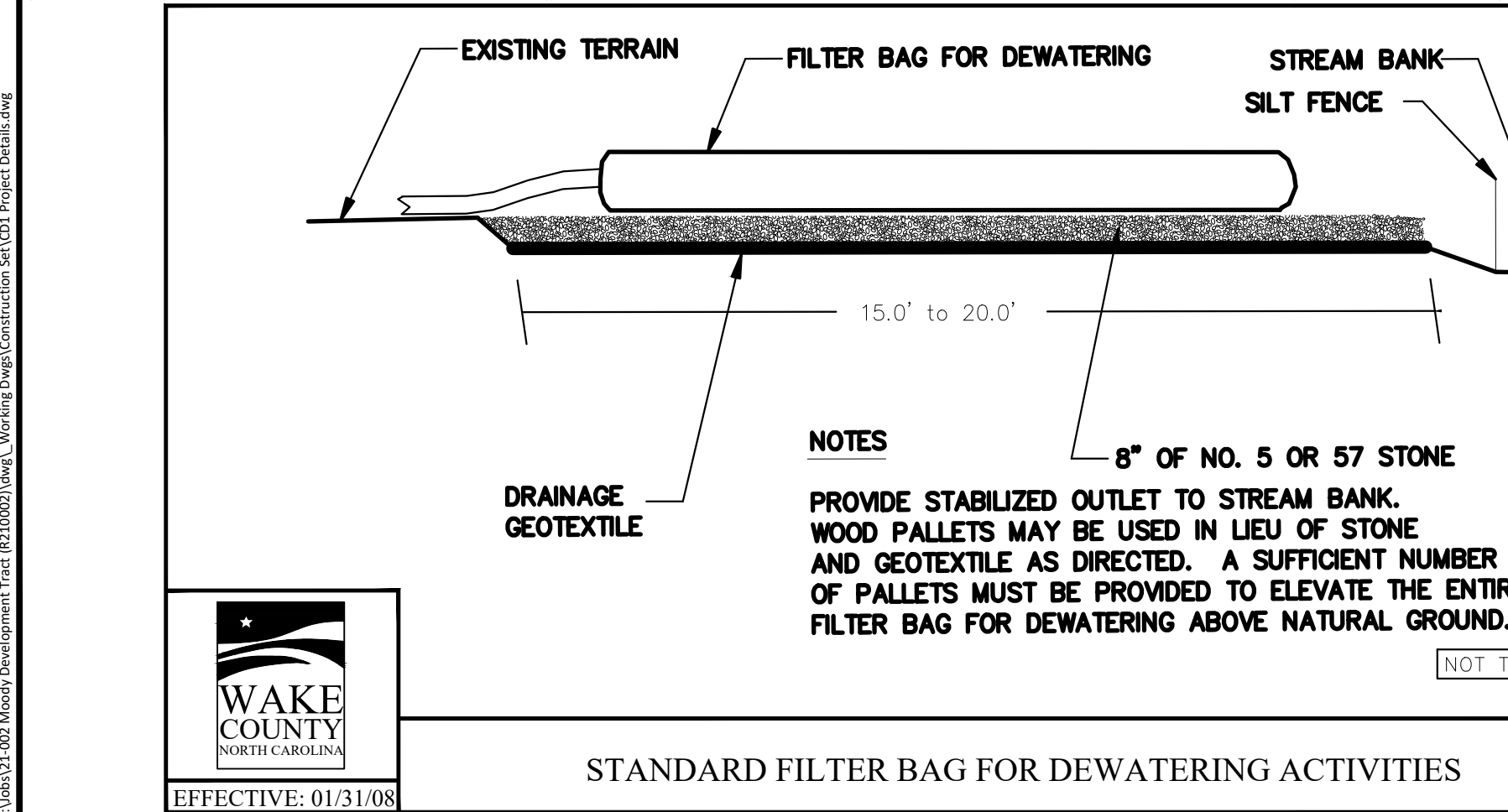
Note:
Number of staples used per panel can be reduced by 30-40% when sharing staples between panels.

□ - Wire/Rebar Staple
⊕ - Percussion Earth Anchor

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Instructions

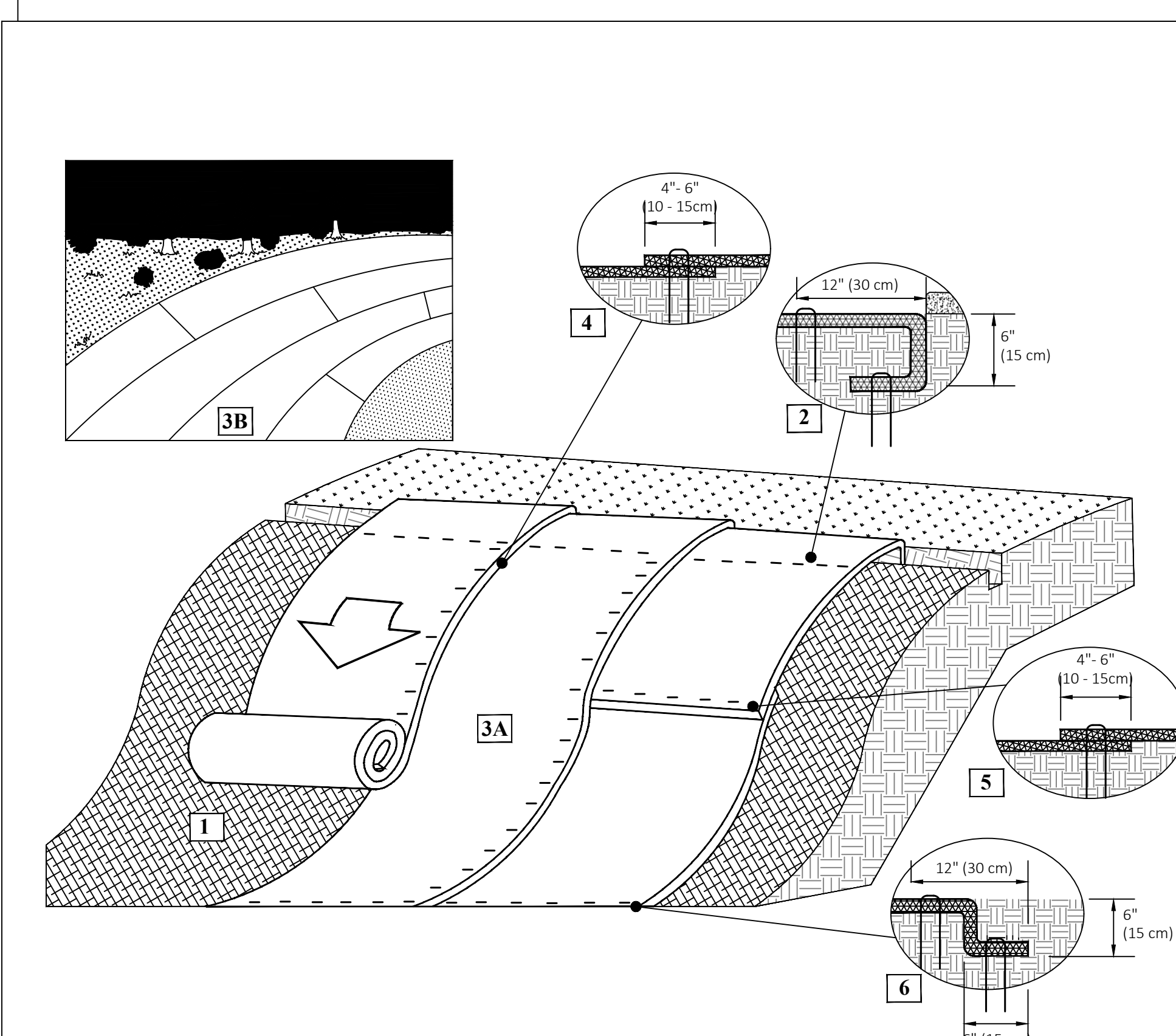
- Prepare soil before installing rolled erosion control products (RECPs), including any necessary application of lime, fertilizer, and seed. Ground surface must be free of debris, rocks, clay clods and raked smooth sufficient to allow intimate contact of the RECP with the soil over the entirety of the installation.
- Begin at the top of the channel by anchoring the RECPs in a 6" (15 cm) deep X 6" (15 cm) wide trench with approximately 12" (30 cm) of RECPs extended beyond the up-slope portion of the trench. Use ShoreMax mat at the channel/culvert outlet as supplemental scour protection as needed. Anchor the RECPs with a row of staples/stakes/pins approximately 12" (30 cm) apart in the bottom of the trench. Backfill and compact the trench after stapling. Apply seed to the compacted soil and fold the remaining 12" (30 cm) portion of RECPs back over the seed and compacted soil. Secure RECPs over compacted soil with a row of staples/stakes/pins spaced approximately 12" (30 cm) apart across the width of the RECPs.
- Roll center RECPs in direction of water flow in bottom of channel. RECPs will unroll with appropriate side against the soil surface. All RECPs must be securely fastened to soil surface by placing staples/stakes/pins in appropriate locations as shown in the staple pattern guide.
- Place consecutive RECPs end-over-end (shingle style) with a 4" - 6" (10 - 15 cm) overlap. Use a double row of staples staggered 4" apart and 4" on center to secure RECPs.
- Full length edge of RECPs at top of side slopes must be anchored with a row of staples/stakes/pins spaced at S_T apart in a 6" (15 cm) deep X 6" (15 cm) wide trench. Backfill and compact the trench after stapling.
- Fasteners should provide a minimum of twenty pounds of pullout resistance. Six-inch (10 cm) X one-inch (2.5 cm) eleven gauge staples are typically adequate. In loose soils, longer staples may be necessary, twist pins can provide the greatest pullout resistance. In hard or rocky soils, straight pins may be used where staples or twist pins are refused, provided the minimum pullout requirements are met. Bio-degradable fasteners shall not be used with VMax (TRM) or TMax (HPTRM) materials.

CRITICAL POINTS

- A. Overlaps and Seams
- B. Projected Water Line
- C. Channel Bottom/Side Slope Vertices

NOTES:

- * Horizontal staple spacing should be altered if necessary to allow staples to secure the critical points along the channel surface.



Instructions

- Prepare soil before installing rolled erosion control products (RECPs), including any necessary application of lime, fertilizer, and seed. Ground surface must be free of debris, rocks, clay clods and raked smooth sufficient to allow intimate contact of the RECP with the soil over the entirety of the installation.
- Begin at the top of the slope by anchoring the RECPs in a 6" (15 cm) deep X 6" (15 cm) wide trench. Anchor the RECPs with a row of staples/stakes/pins spaced at S_T apart in the bottom of the trench. Backfill and compact the trench after stapling and fold the roll over downslope. Secure RECPs over compacted soil with a row of staples/stakes/pins spaced at S_T apart across the width of the RECPs.
- Roll the RECPs (A) down or (B) horizontally across the slope. RECPs will unroll with appropriate side against the soil surface. All RECPs must be securely fastened to soil surface by placing staples/stakes/pins in appropriate locations as shown in the staple pattern guide. RollMax RECPs and ECBs should utilize Staple Pattern C, TRMs and VMax materials should utilize Staple Pattern D.
- The edges of parallel RECPs must be stapled with approximately 4" - 6" (10 - 15 cm) overlap.
- Consecutive RECPs spliced down the slope must overlapped with the upstream mat atop the downstream mat (shingle style). The overlap should be 4" - 6" (10 - 15 cm).
- At the terminal end, secure each mat across the width with a row of staples/stakes/pins spaced at S_T. If exposed to flow, foot traffic, wind uplift or other disruption, trench the terminal end in as shown in detail.
- Fasteners should provide a minimum of twenty pounds of pullout resistance. Six-inch (10 cm) X one-inch (2.5 cm) eleven gauge staples are typically adequate. In loose soils, longer staples may be necessary, twist pins can provide the greatest pullout resistance. In hard or rocky soils, straight pins may be used where staples or twist pins are refused, provided the minimum pullout requirements are met. Bio-degradable fasteners shall not be used with VMax (TRM) or TMax (HPTRM) materials.

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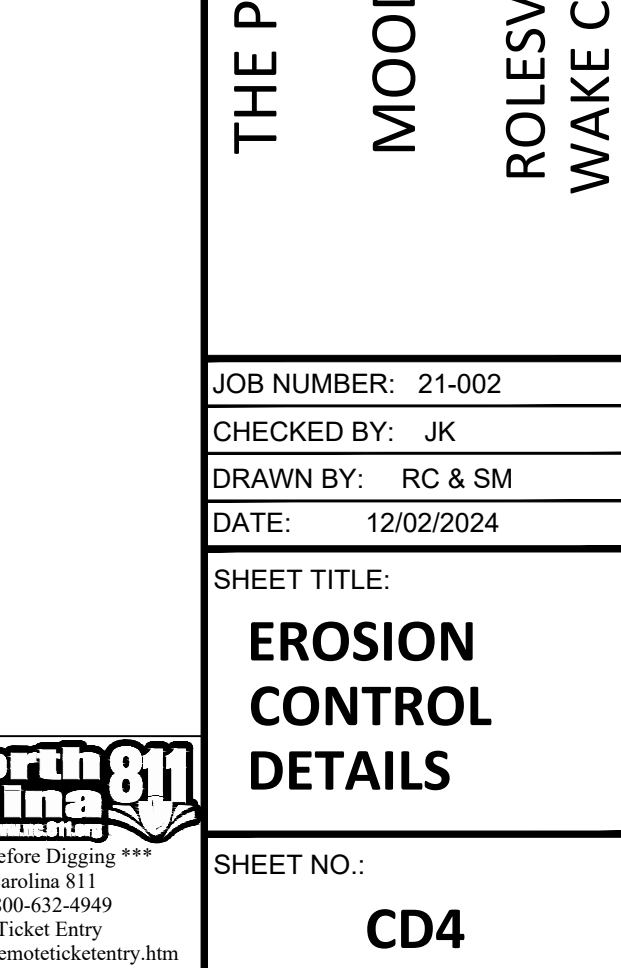
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AMERICAN Engineering
American Engineering Associates - Southeast, P.A.
4020 Westchase Boulevard, Suite 450
Raleigh, NC 27607

AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
C-3881
REGISTERED PROFESSIONAL ENGINEERS
STATE OF NORTH CAROLINA

PRELIMINARY DESIGN FOR CONSTRUCTION
BY: J. MOORE, P. E., K. ELLIOTT, P. E.

NO. _____ DATE _____ REVISION: _____

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THE PRESERVE AT MOODY FARM
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 12/02/2024

SHEET TITLE:
EROSION CONTROL DETAILS

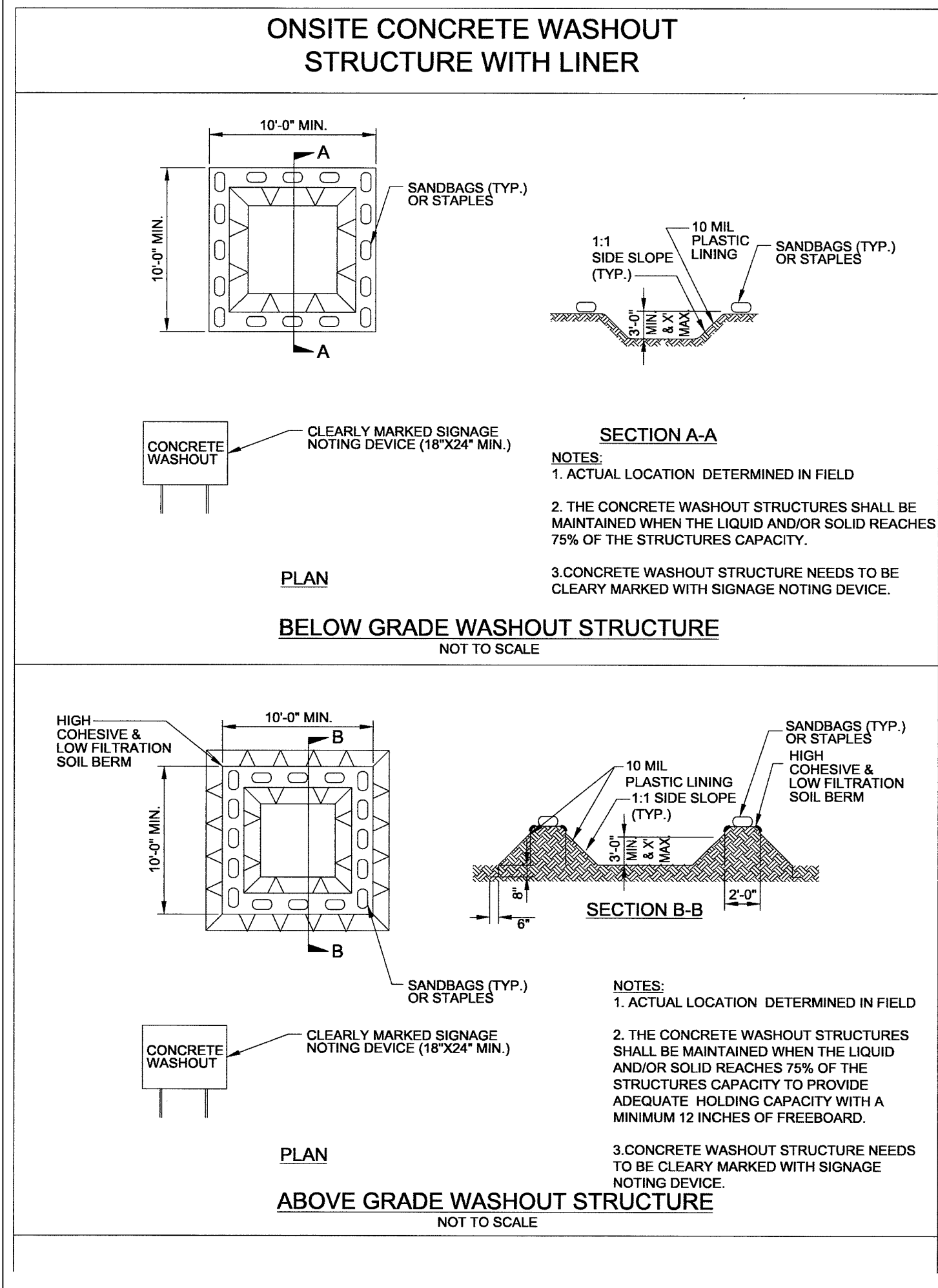
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North Carolina 811
*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm



PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION A: SELF-INSPECTION

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

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

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

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING

1. E&SC Plan Documentation

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

Item to Document	Documentation Requirements
(a) Each E&SC measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&SC plan.	Initial and date each E&SC measure on a copy of the approved E&SC plan or complete, date and sign an inspection report that lists each E&SC measure shown on the approved E&SC plan. This documentation is required upon the initial installation of the E&SC measures or if the E&SC measures are modified after initial installation.
(b) A phase of grading has been completed.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate completion of the construction phase.
(c) Ground cover is located and installed in accordance with the approved E&SC plan.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.
(d) The maintenance and repair requirements for all E&SC measures have been performed.	Complete, date and sign an inspection report.
(e) Corrective actions have been taken to E&SC measures.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate the completion of the corrective action.

2. Additional Documentation to be Kept on Site

In addition to the E&SC plan documents above, the following items shall be kept on the site and available for 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:

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

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

3. Documentation to be Retained for Three Years

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

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING

1. Occurrences That Must be Reported

Permittees shall report the following occurrences:

- Visible sediment deposition in a stream or wetland.
- Oil spills if:
 - 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).
- 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 113.7) or Section 102 of CERCLA (Ref. 40 CFR 302.4) or G.S. 143-215.85.
- Anticipated bypasses and unanticipated bypasses.
- Noncompliance with the conditions of this permit that may endanger health or the environment.

2. Reporting Timelines and Other Requirements

After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the requirements listed below. Occurrences outside normal business hours may also be reported to the Department's Environmental Emergency Center personnel at (800) 858-0368.

Occurrence	Reporting Timelines (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	• Within 24 hours, an oral or electronic notification. • Within 7 calendar days, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis.
(b) Oil spills and release of hazardous substances per Item 2(b)(2) above	• Within 24 hours, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release. • A report at least ten days before the date of the bypass, if possible. The report shall include an evaluation of the anticipated quality and effect of the bypass.
(c) Anticipated bypasses [40 CFR 122.41(m)(3)]	• Within 24 hours, an oral or electronic notification. • Within 7 calendar days, a report that includes an evaluation of the quality and effect of the bypass.
(d) Unanticipated bypasses [40 CFR 122.41(m)(3)]	• Within 24 hours, an oral or electronic notification. • Within 7 calendar days, a report that includes a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance. [40 CFR 122.41(j)(6)].
(e) Noncompliance with the conditions of this permit that may endanger health or the environment [40 CFR 122.41(j)(7)]	• Division staff may waive the requirement for a written report on a case-by-case basis.



EFFECTIVE: 04/01/19

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

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.

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

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.

EQUIPMENT AND VEHICLE MAINTENANCE

- Maintain vehicles and equipment to prevent discharge of fluids.
- Provide drip pans under any stored equipment.
- Identify leaks and repair as soon as feasible, or remove leaking equipment from the 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

- 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

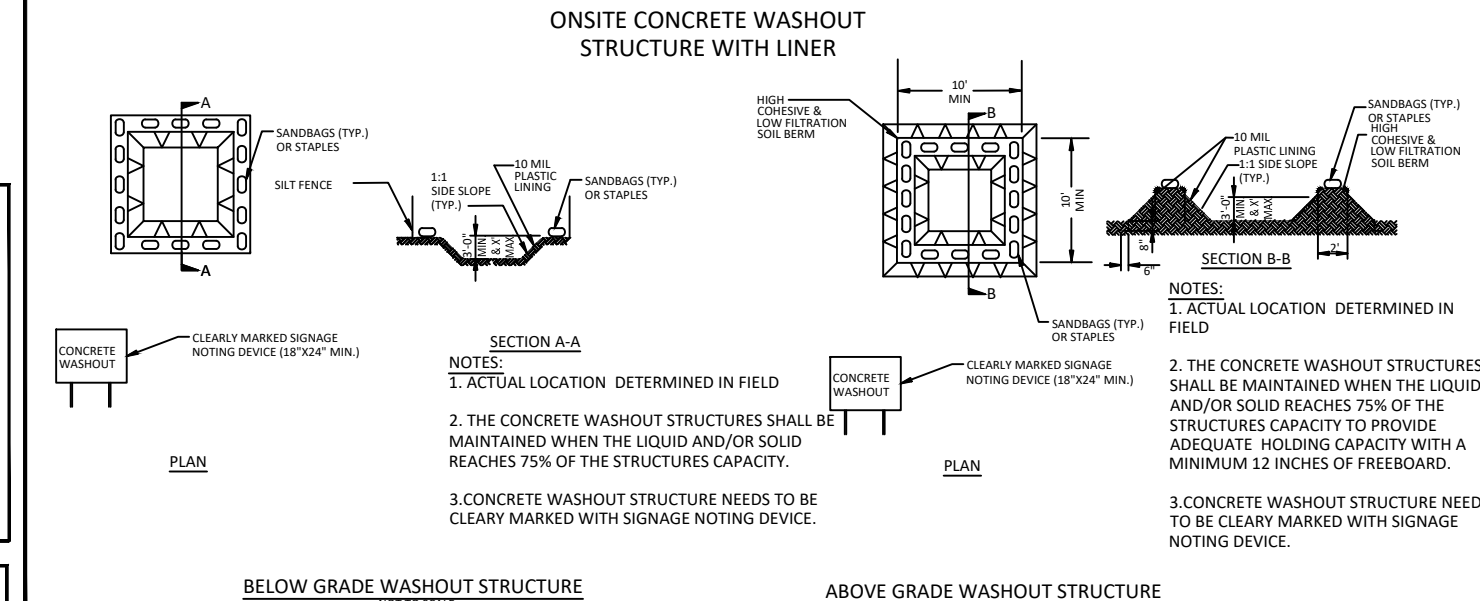
- Do not dump paint and other liquid waste into storm drains, streams or wetlands.
- Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Contain liquid wastes in a controlled area.
- Containment must be labeled, 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

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

EARTHEN STOCKPILE MANAGEMENT

- Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably 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.



CONCRETE WASHOUTS

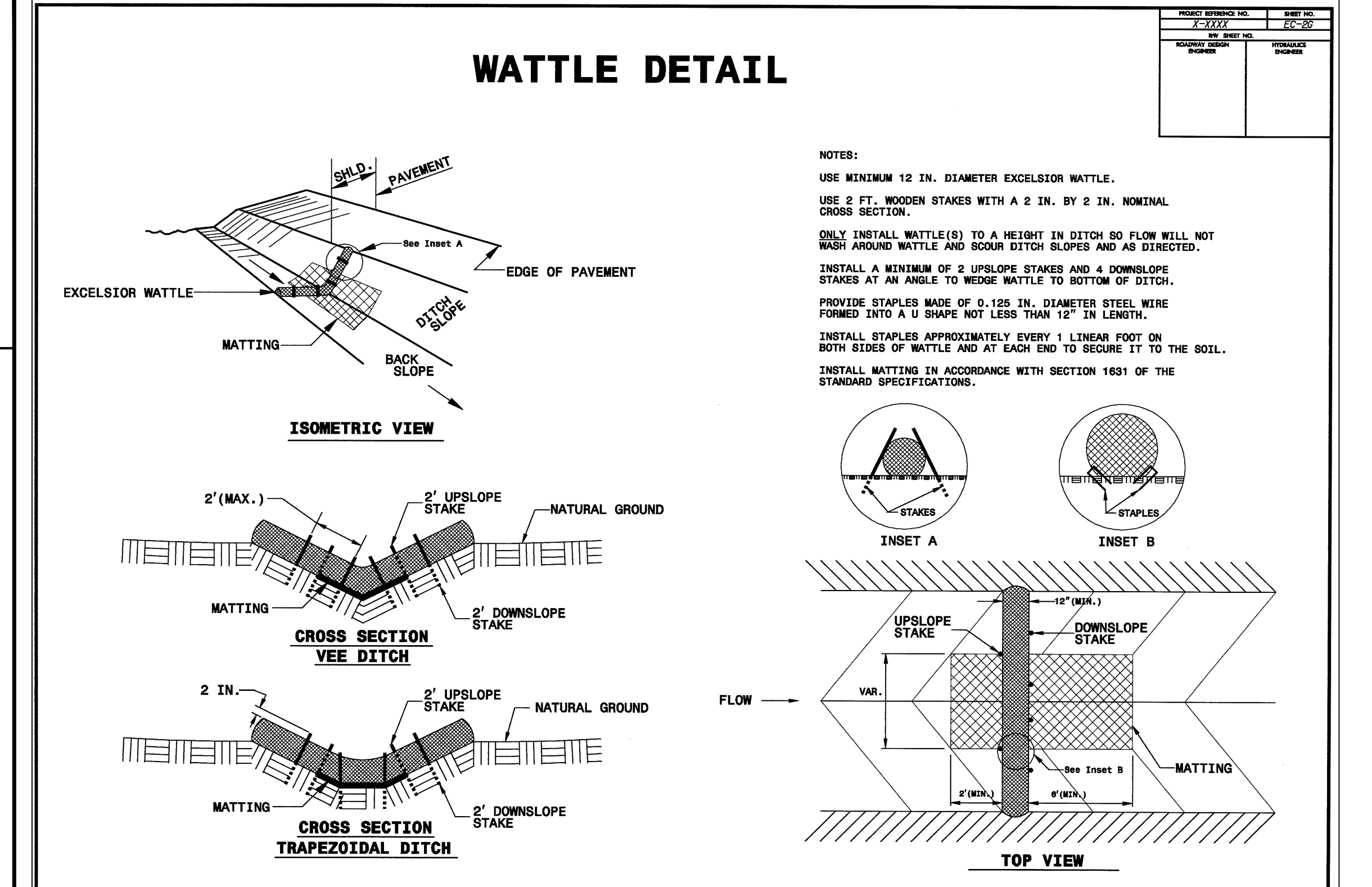
- Do not discharge concrete or cement slurry from the site.
- Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
- Manage washout from mortar mixers in accordance with the above item and in addition place the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

HERBICIDES, PESTICIDES AND RODENTICIDES

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

HAZARDOUS AND TOXIC WASTE

- Create designated hazardous waste collection areas on-site.
- Place hazardous waste containers under cover or in secondary containment.
- Do not store hazardous chemicals, drums or bagged materials directly on the ground.



NO.	DATE	REVISION:

STIPULATION FOR REUSE

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THE PRESERVE AT MOODY FARM

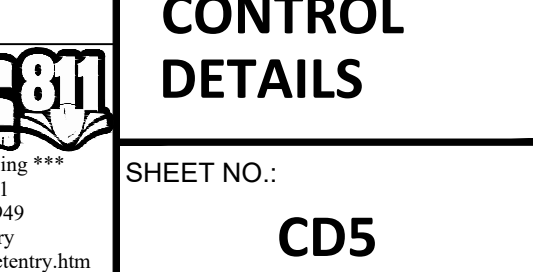
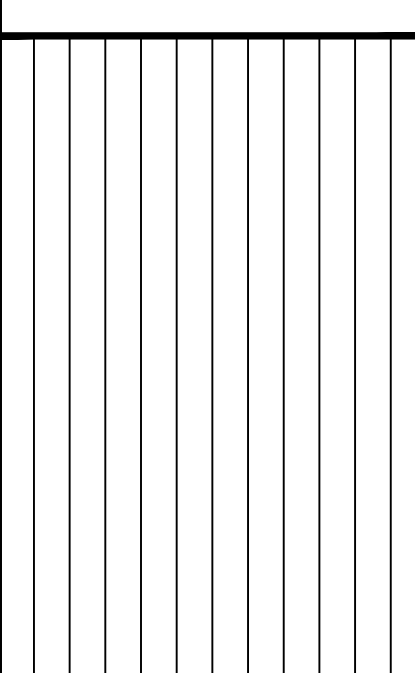
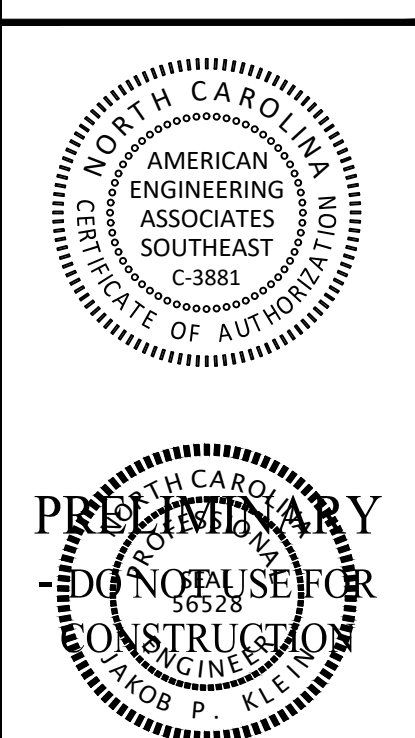
ROLESVILLE ROAD

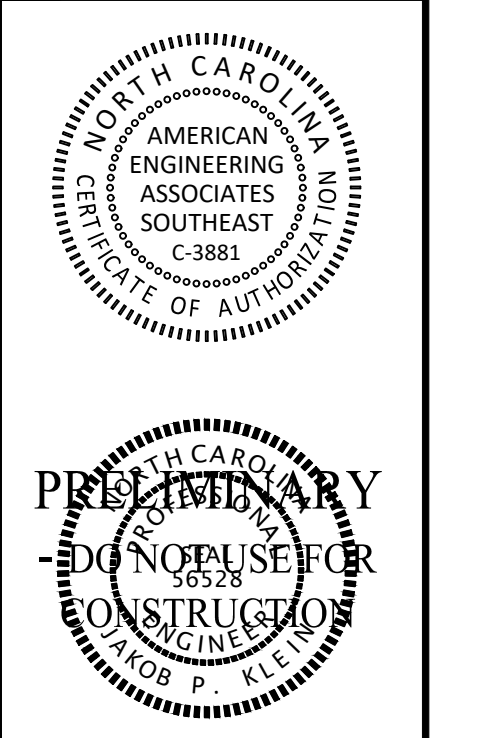
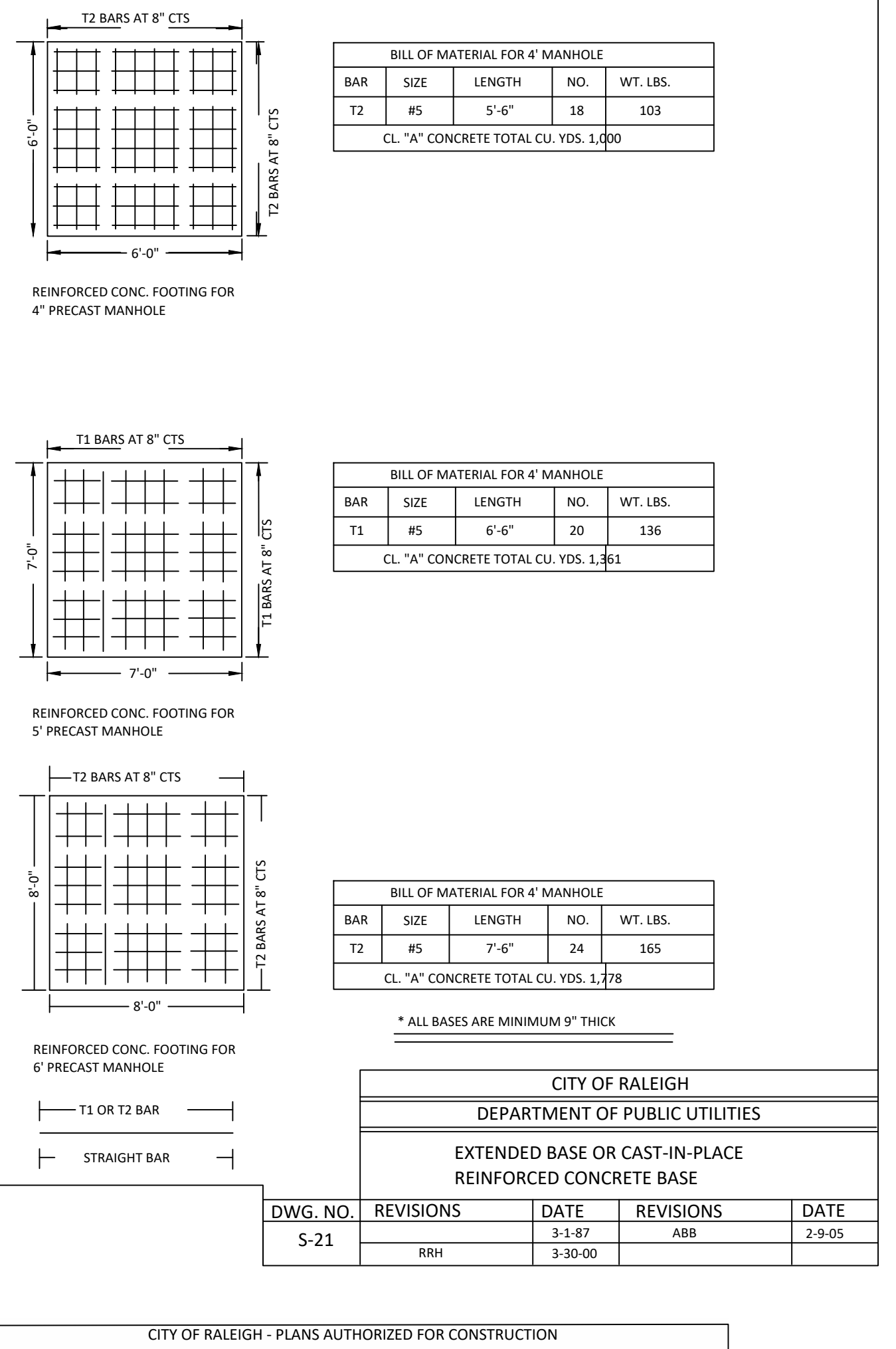
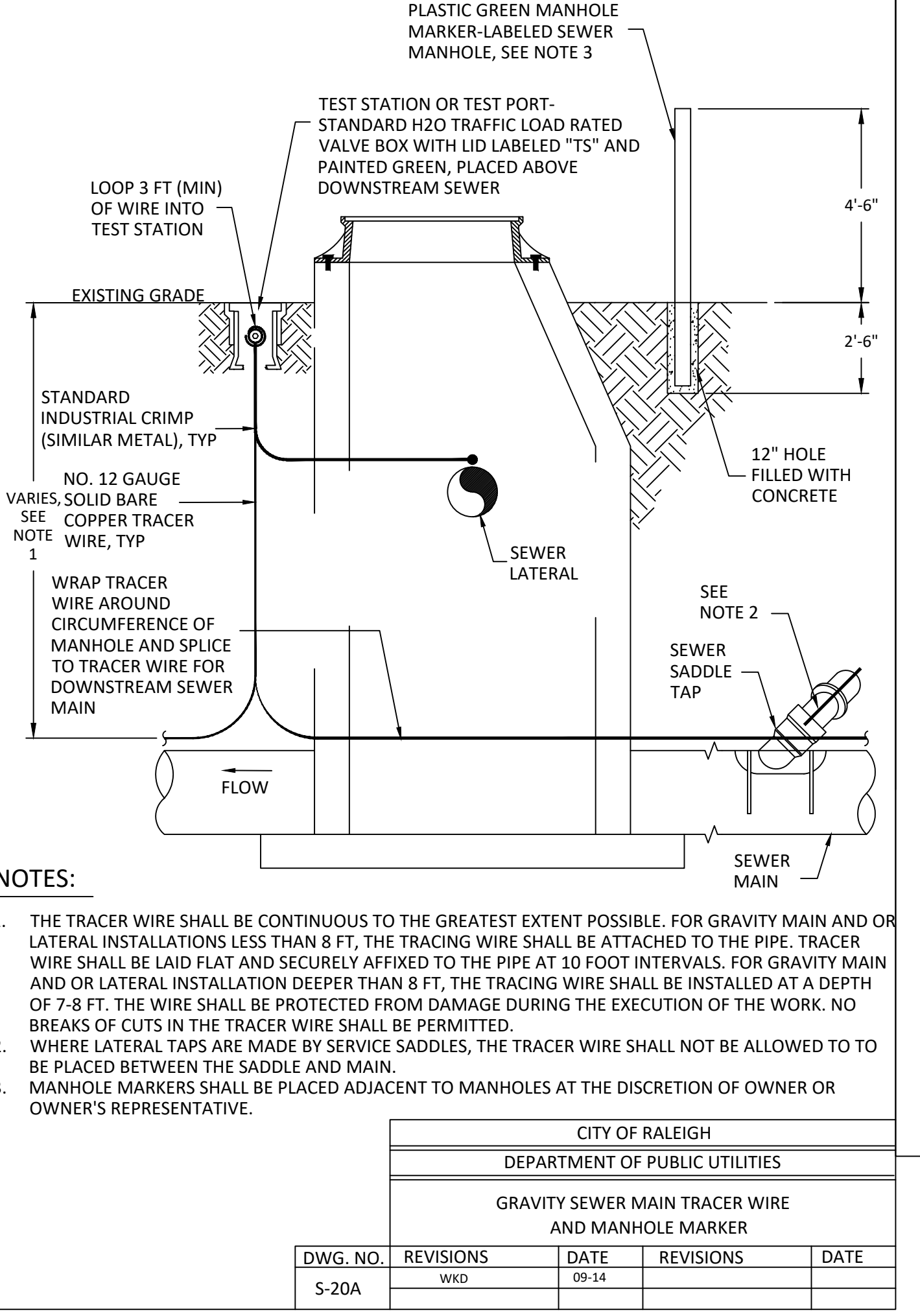
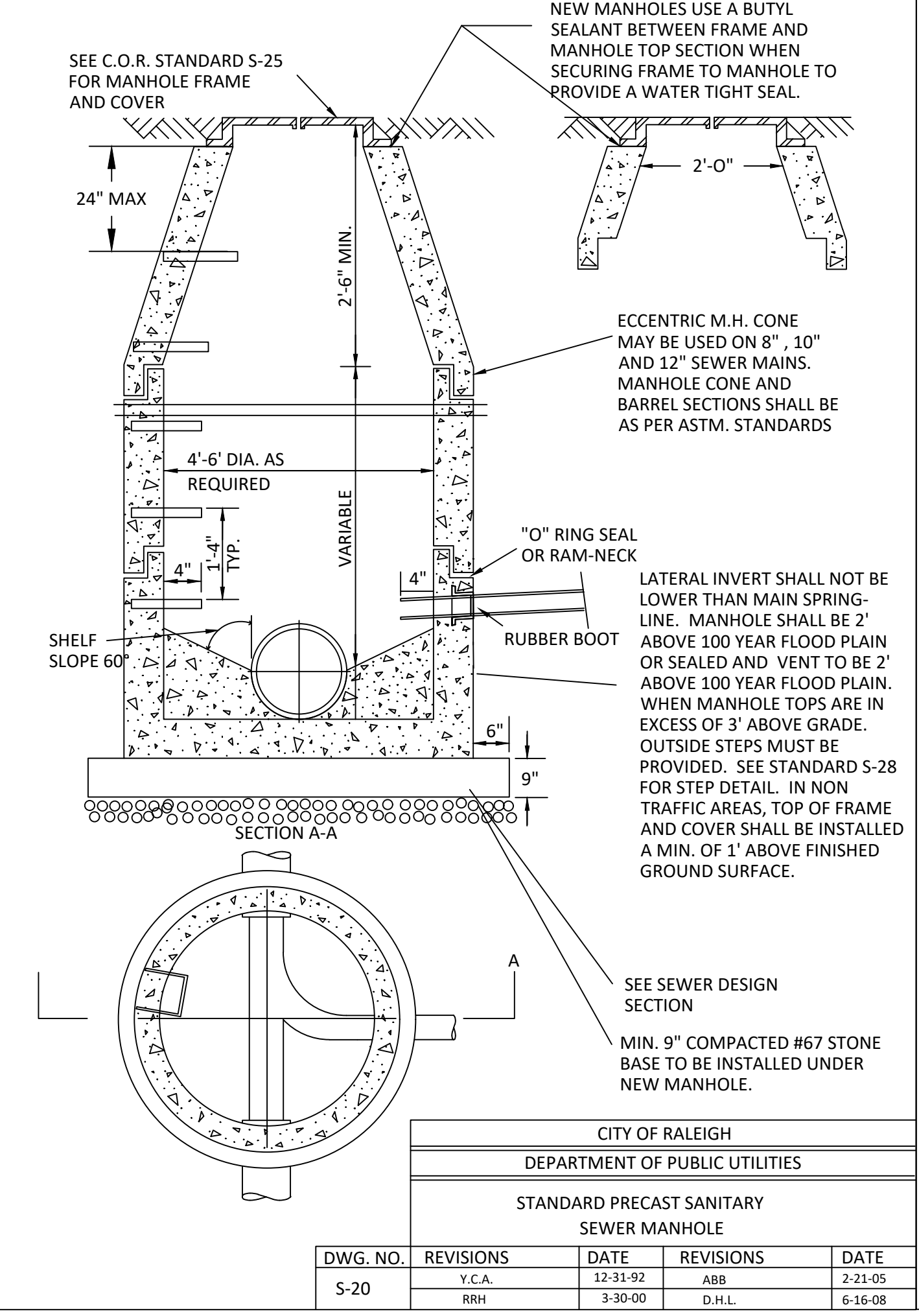
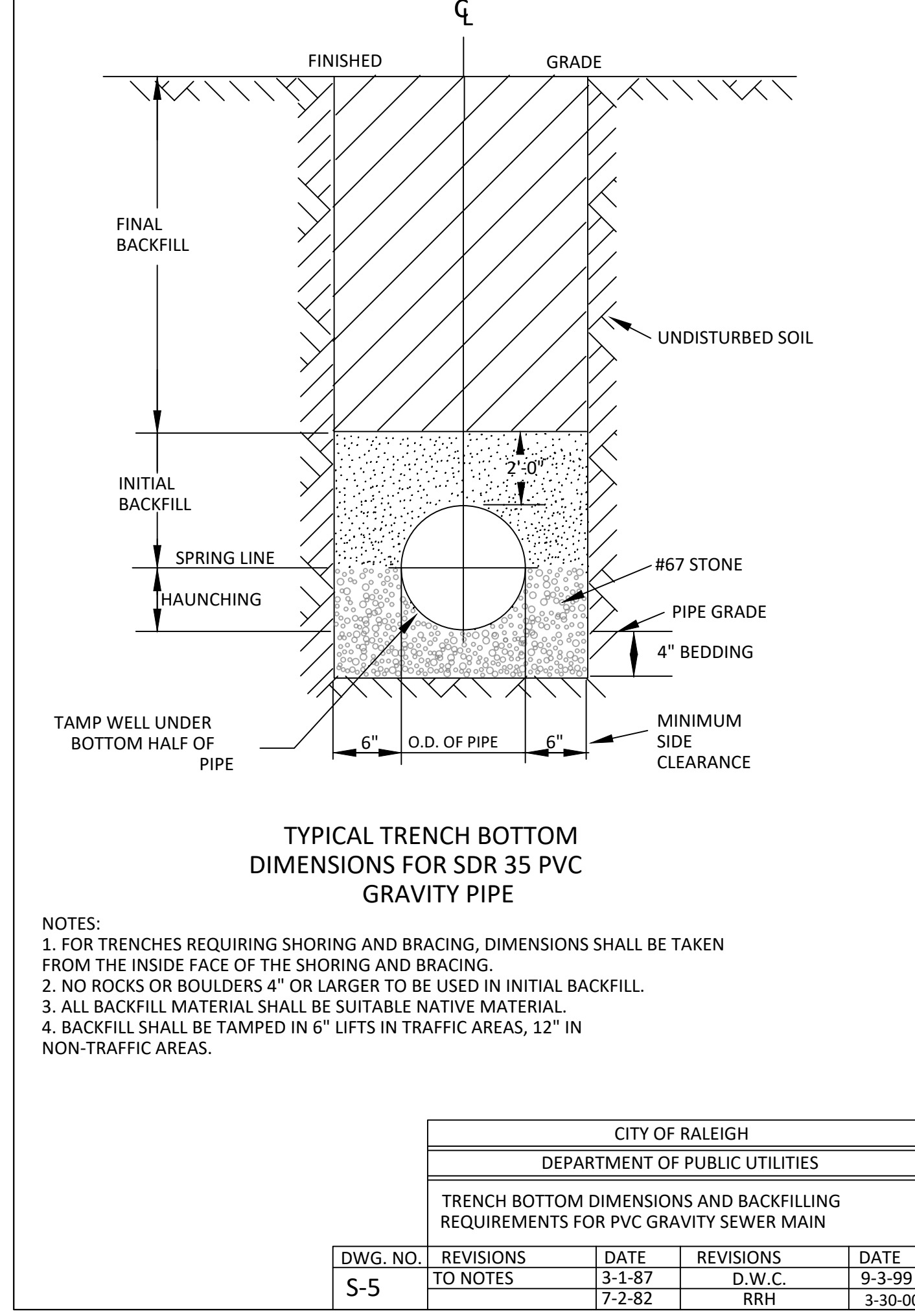
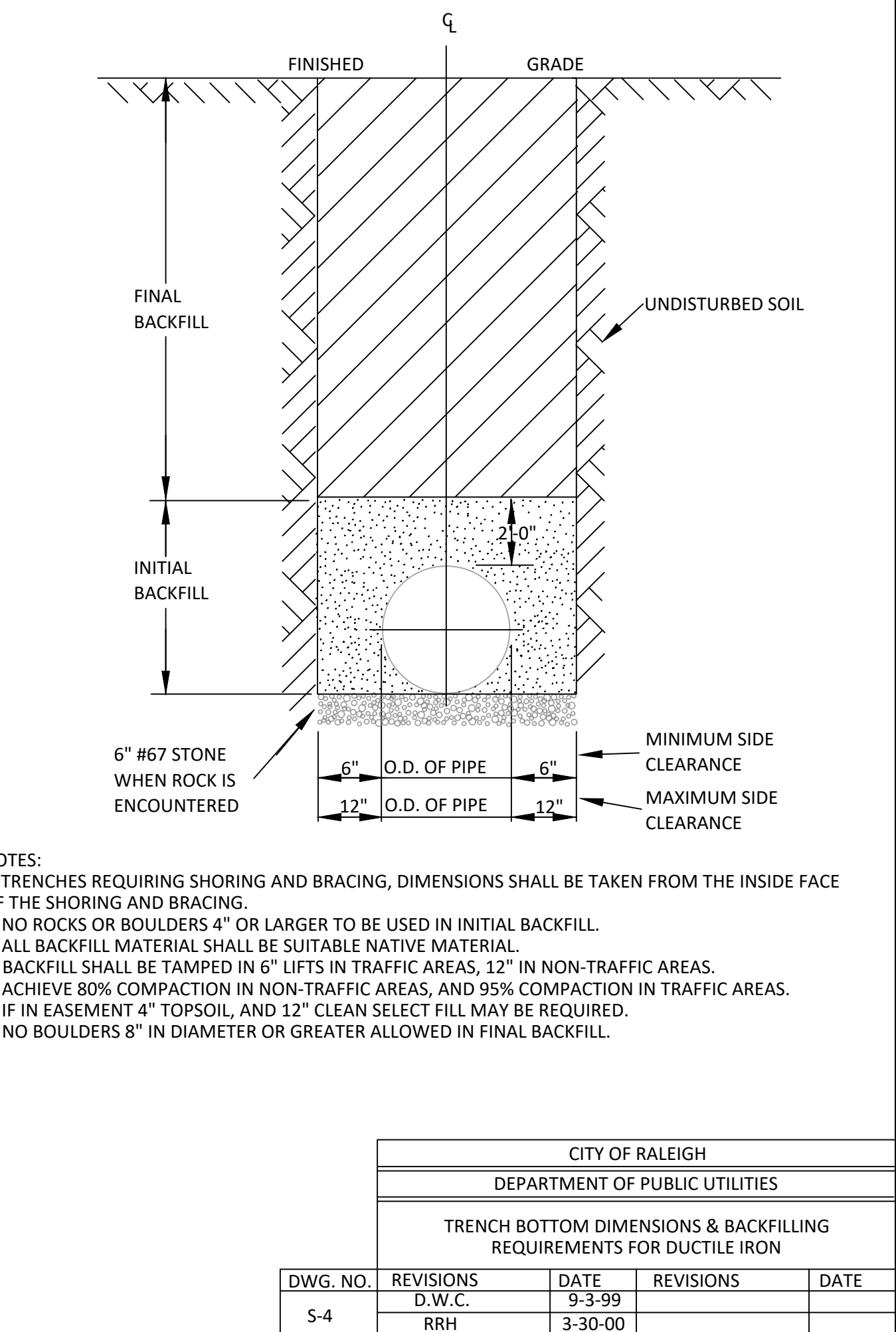
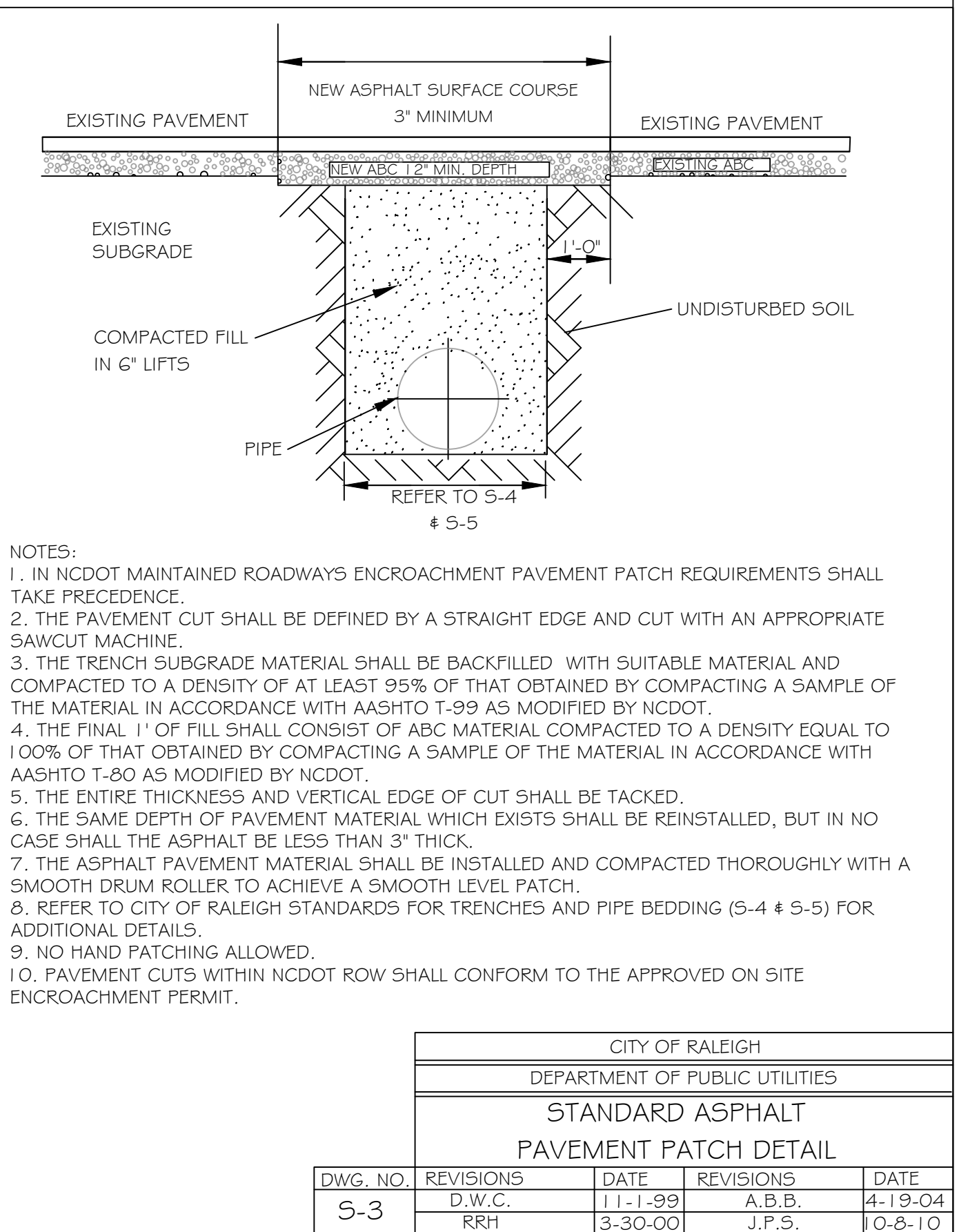
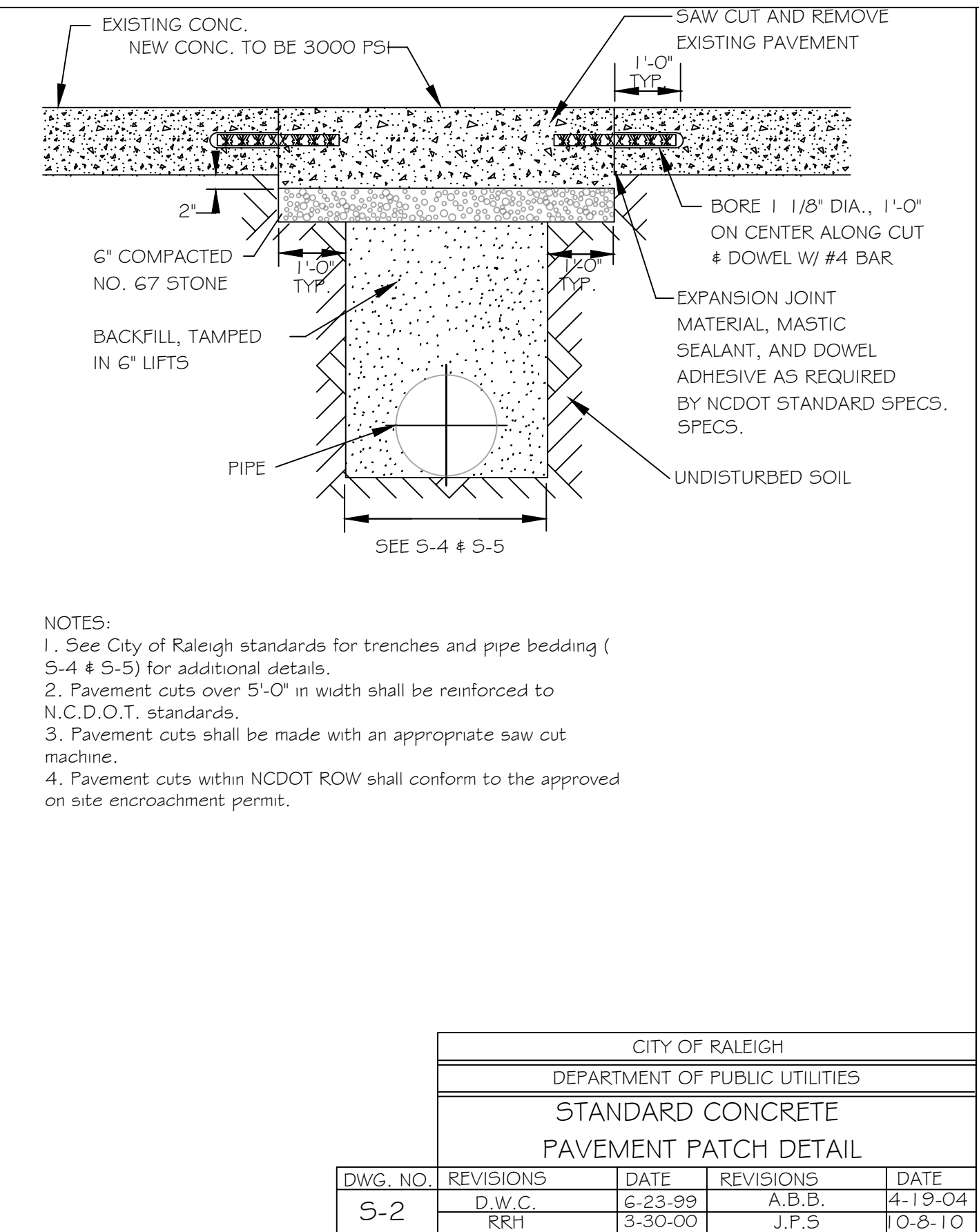
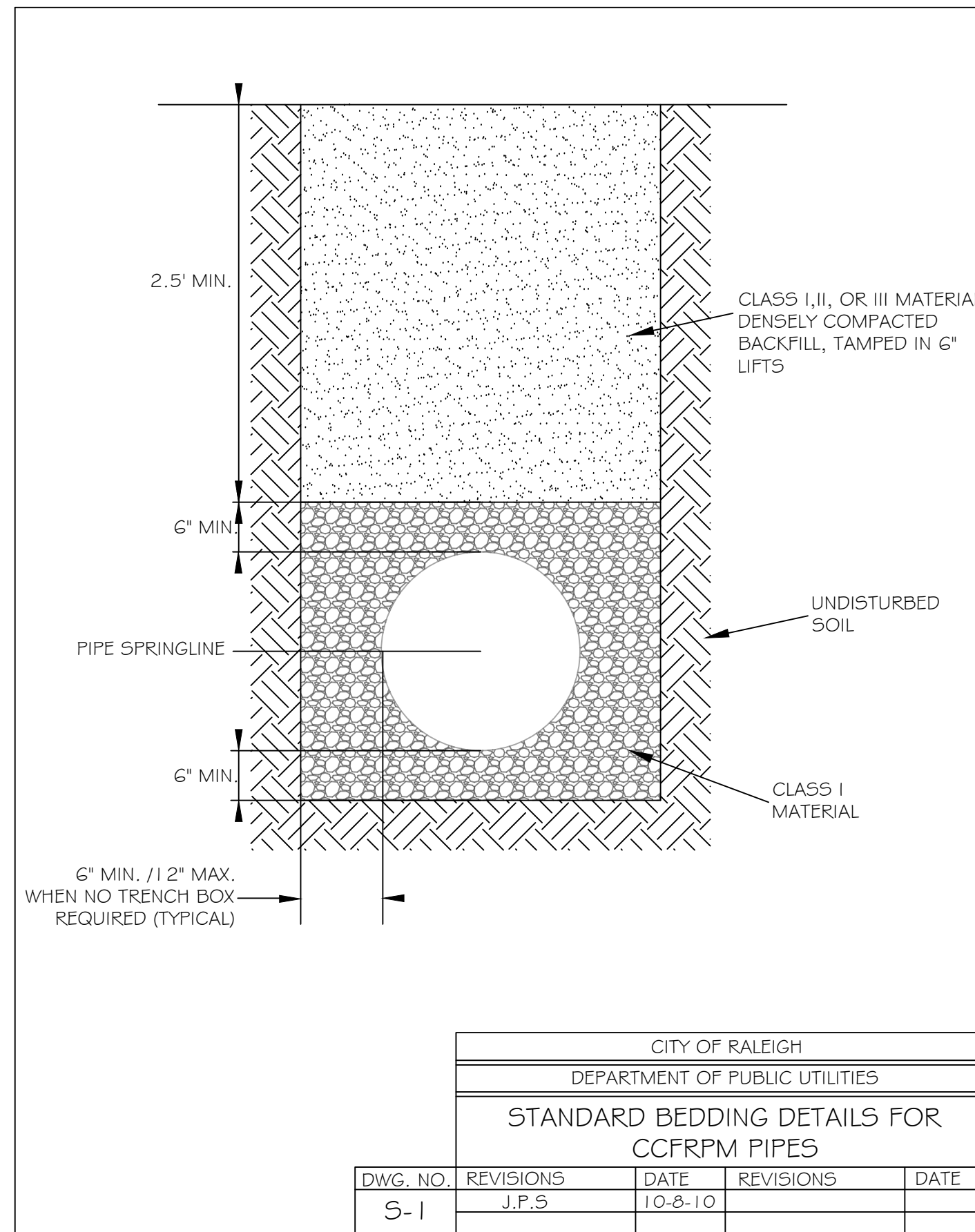
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 12/02/2024

SHEET TITLE:
EROSION CONTROL DETAILS

SHEET NO.:
CD5





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THE PRESERVE AT MOODY FARM
ROLESVILLE ROAD
WAKE COUNTY, NC

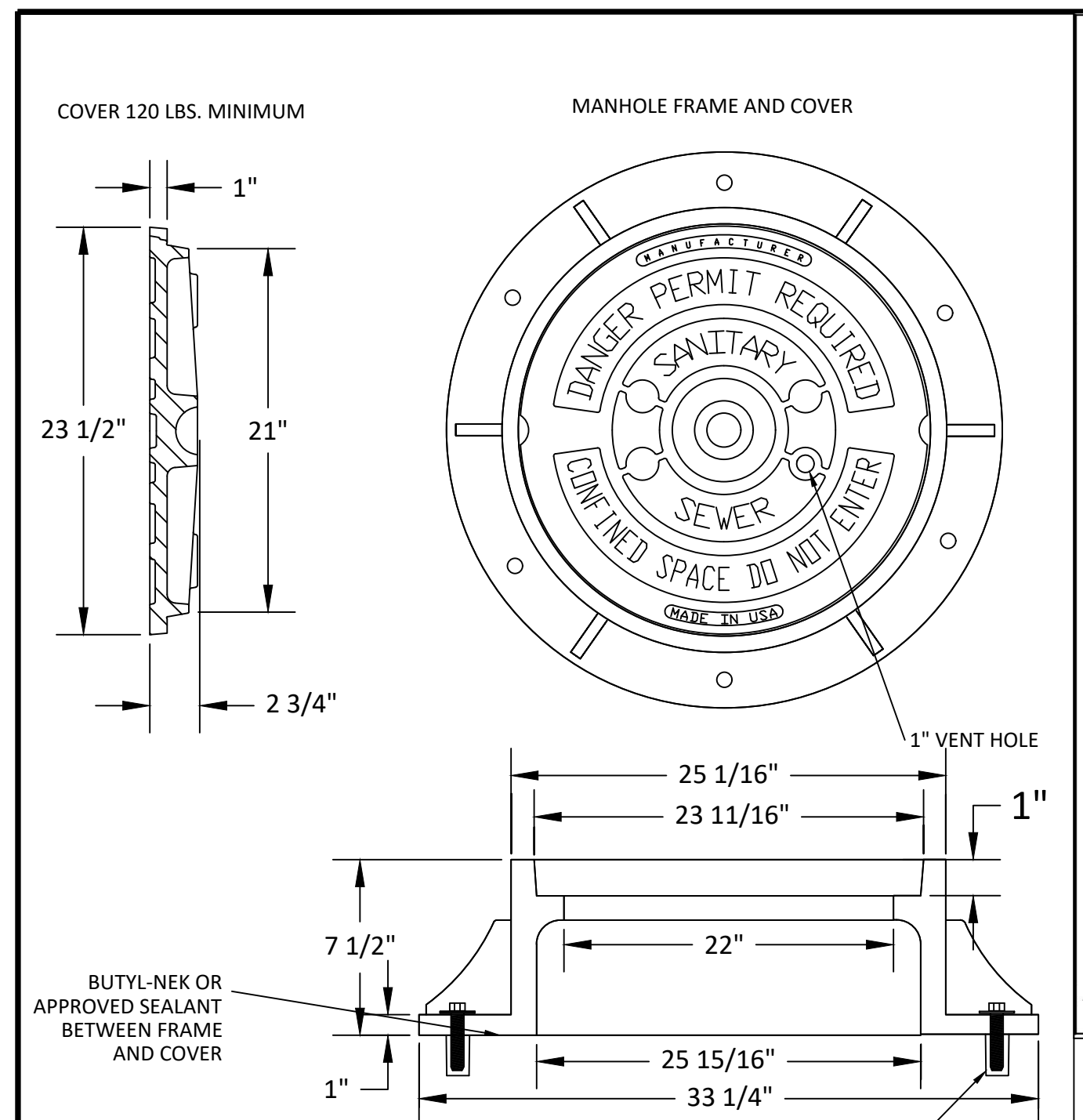
JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 12/02/2024

SHEET TITLE:
UTILITY DETAILS
SHEET NO.:
CD9

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION
Electronic Approval: This approval is being issued electronically. This approval is valid only upon the signature of a City of Raleigh Review Officer below. The City will retain a copy of the approved plans. Any work authorized by this approval must proceed in accordance with the plans kept on file with the City. This electronic approval may not be edited once issued. Any modification to this approval once issued will invalidate this approval.
City of Raleigh Development Approval _____
Raleigh Water Review Officer



2:00:21.000 Monday, November 2, 2024 12:00:21.000 Monday, November 2, 2024

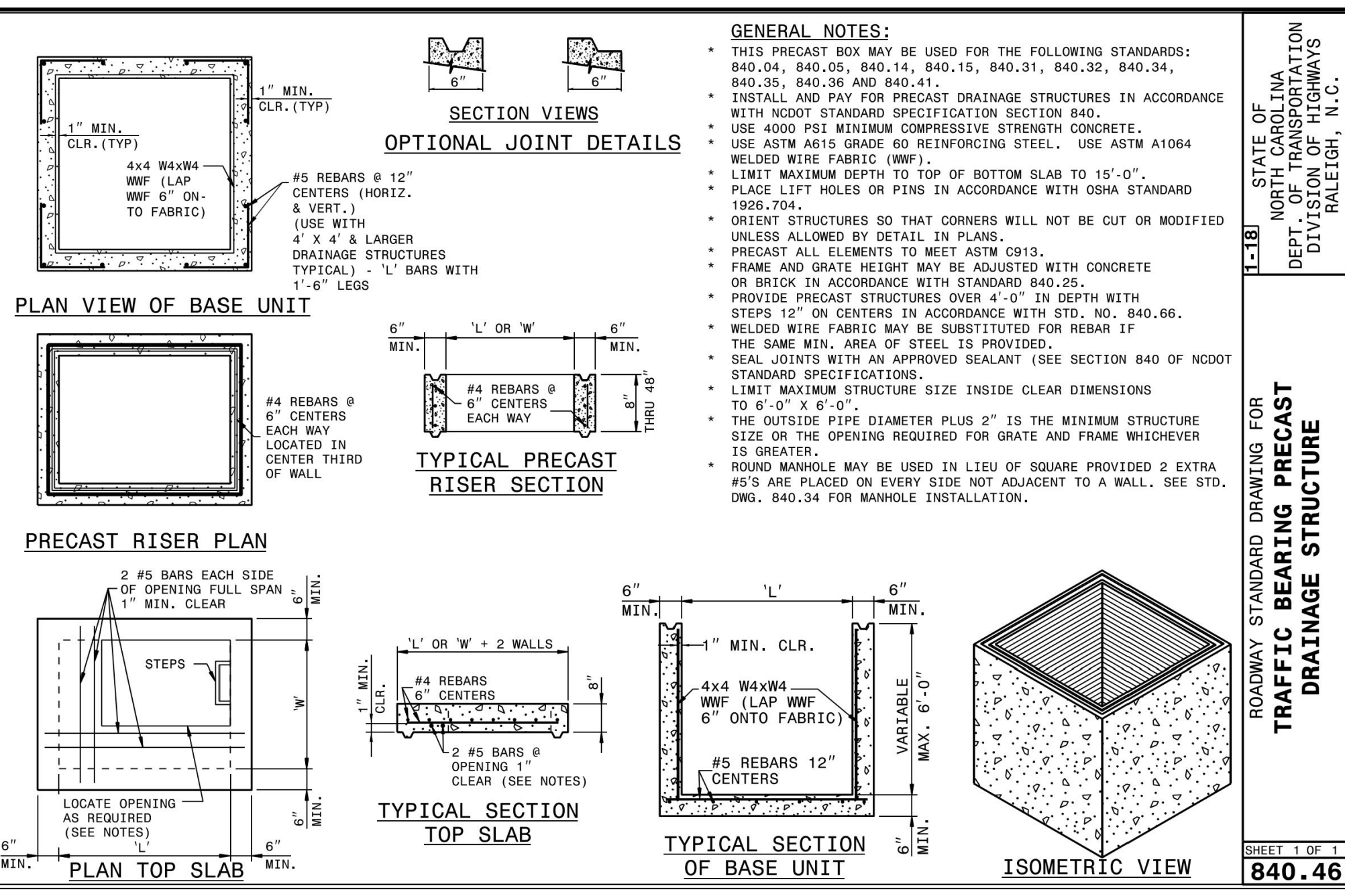


COVER 120 LBS. MINIMUM

MANHOLE FRAME AND COVER

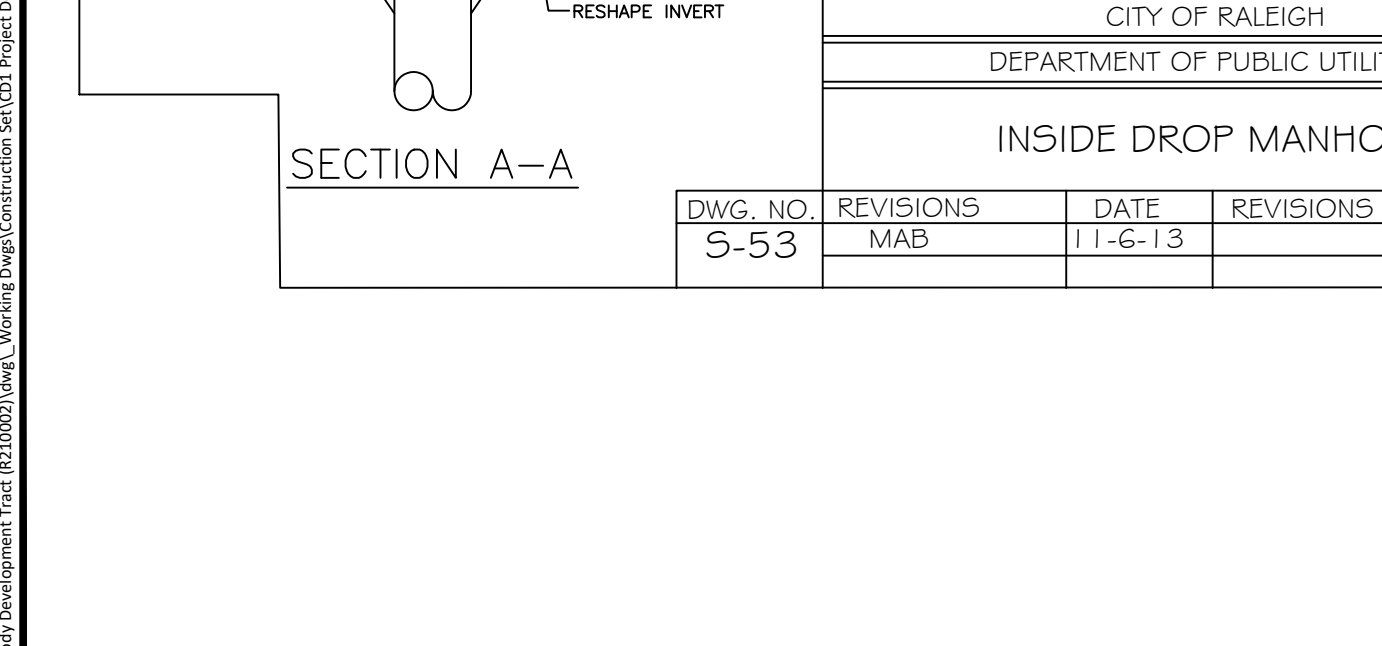
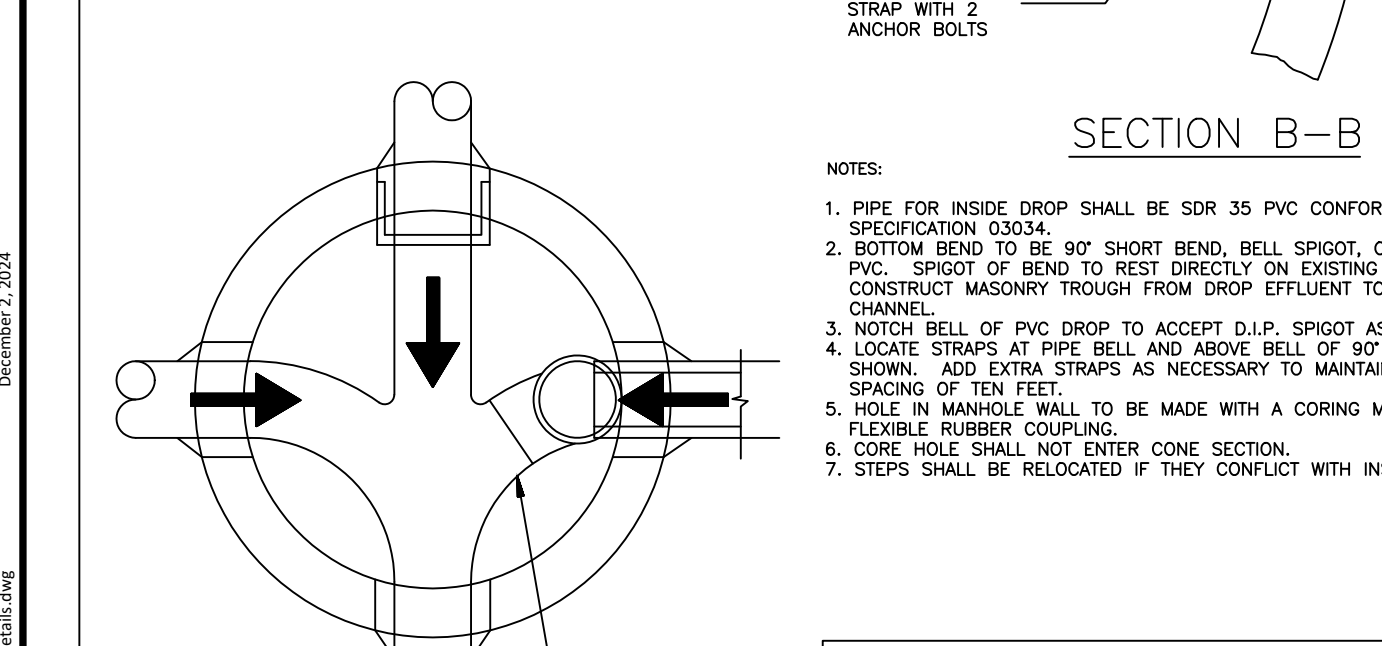
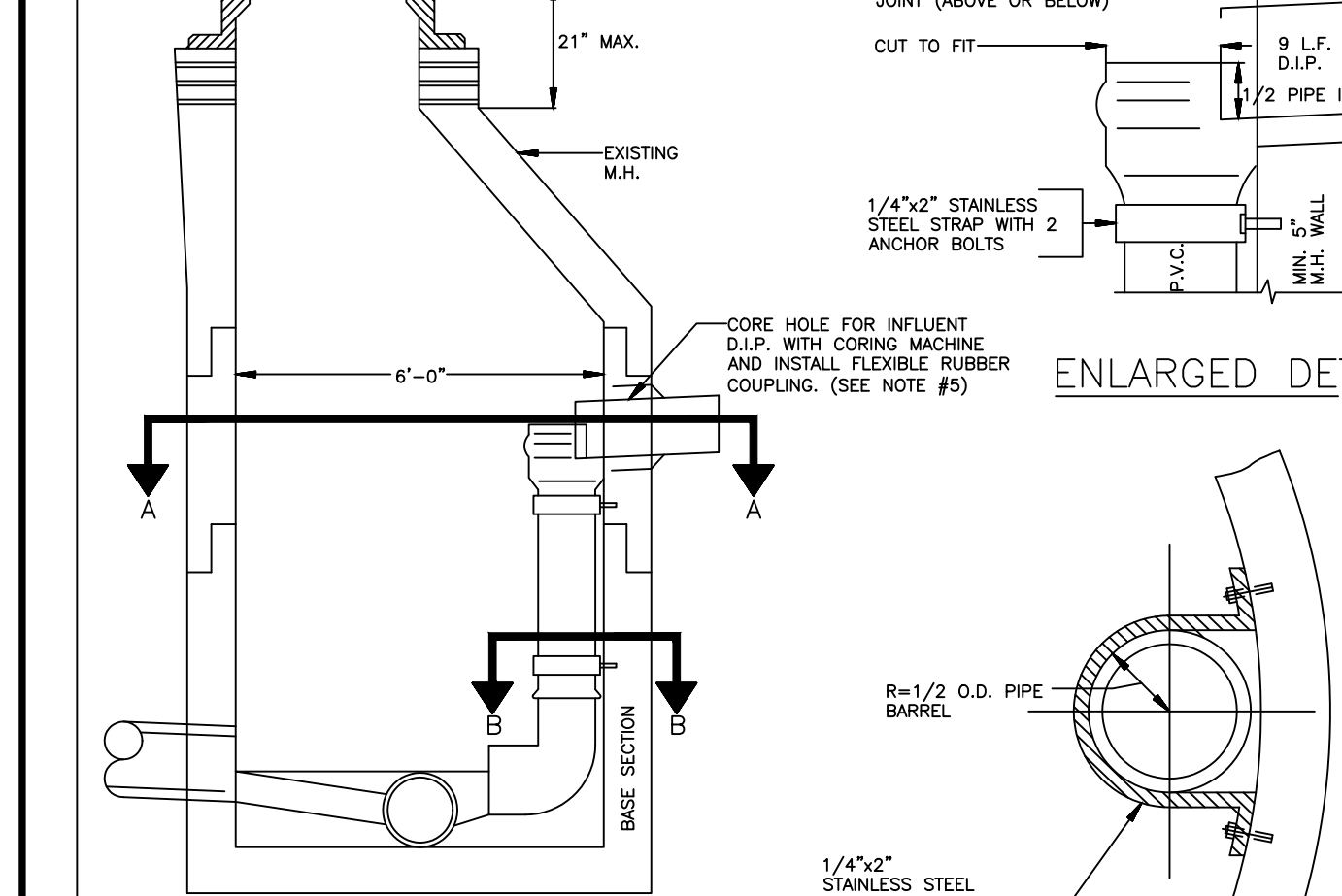
NOTES:
 1) ALL MANHOLE FRAMES SHALL BE DOMESTICALLY CAST.
 2) FRAME SHALL BE A MINIMUM WEIGHT OF 182 LBS. WITHIN PUBLIC ROW AND 160 LBS. WITHIN EASEMENTS.
 3) COVER SHALL WEIGH A MIN. OF 120 LBS.
 4) ALL MANHOLE FRAMES OUTSIDE OF PAVED SURFACES SHALL BE BOLTED TO THE CONE SECTION OR RING WITH A MINIMUM OF 4 BOLTS PER FRAME.

5/8"x3" LAGSHIELD IN HOLE DRILLED INTO CONE OR RING WITH ANCHOR SUNK TO DESIGN DEPTH, AND 3/8"x3" HOT DIPPED GALVANIZED LAG BOLT AND WASHER.

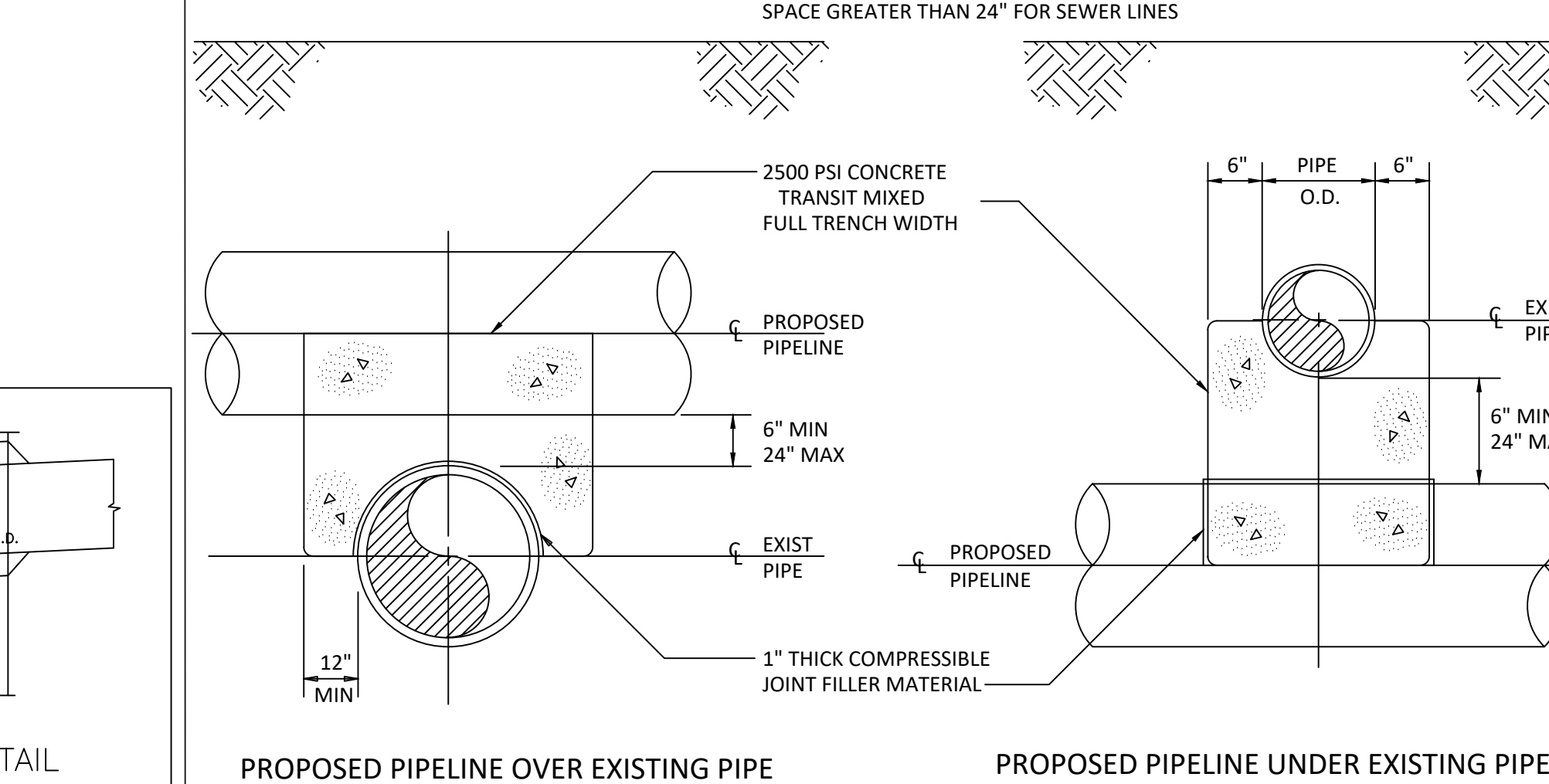


GENERAL NOTES:
 • THIS PRECAST BOX MAY BE USED FOR THE FOLLOWING STANDARDS: 840.04, 840.05, 840.14, 840.15, 840.31, 840.32, 840.34, 840.35, 840.36 AND 840.41.
 • INSTALL AND PAY FOR PRECAST DRAINAGE STRUCTURES IN ACCORDANCE WITH NCDOT STANDARD SPECIFICATION SECTION 840.
 • USE 4000 PSI MINIMUM COMPRESSIVE STRENGTH CONCRETE.
 • USE ASTM A615 GRADE 60 REINFORCING STEEL. USE ASTM A1064 WELDED WIRE FABRIC (WWF).
 • LIMIT MAXIMUM DEPTH TO TOP OF BOTTOM SLAB TO 15'-0".
 • PLACE LIFT HOLES OR PINS IN ACCORDANCE WITH OSHA STANDARD 1926.704.
 • ORIENT STRUCTURES SO THAT CORNERS WILL NOT BE CUT OR MODIFIED UNLESS ALLOWED BY DETAIL IN PLANS.
 • PRECAST ALL ELEMENTS TO MEET ASTM C913.
 • FRAME AND GRATE HEIGHT MAY BE ADJUSTED WITH CONCRETE OR BRICK IN ACCORDANCE WITH STANDARD 840.25.
 • PROVIDE PRECAST STRUCTURES OVER 4'-0" IN DEPTH WITH STEPS 12" ON CENTERS IN ACCORDANCE WITH STD. NO. 840.66.
 • WELDED WIRE FABRIC MAY BE SUBSTITUTED FOR REBAR IF THE SAME MIN. AREA OF STEEL IS PROVIDED.
 • SEAL JOINTS WITH AN APPROVED SEALANT (SEE SECTION 840 OF NCDOT STANDARD SPECIFICATIONS).
 • LIMIT MAXIMUM STRUCTURE SIZE INSIDE CLEAR DIMENSIONS TO 6'-0" X 6'-0".
 • THE OUTSIDE PIPE DIAMETER PLUS 2" IS THE MINIMUM STRUCTURE SIZE OR THE OPENING REQUIRED FOR GRATE AND FRAME WHICHEVER IS GREATER.
 • ROUND MANHOLE MAY BE USED IN LIEU OF SQUARE PROVIDED 2 EXTRA #5'S ARE PLACED ON EVERY SIDE NOT ADJACENT TO A WALL. SEE STD. DWG. 840.54 FOR MANHOLE INSTALLATION.

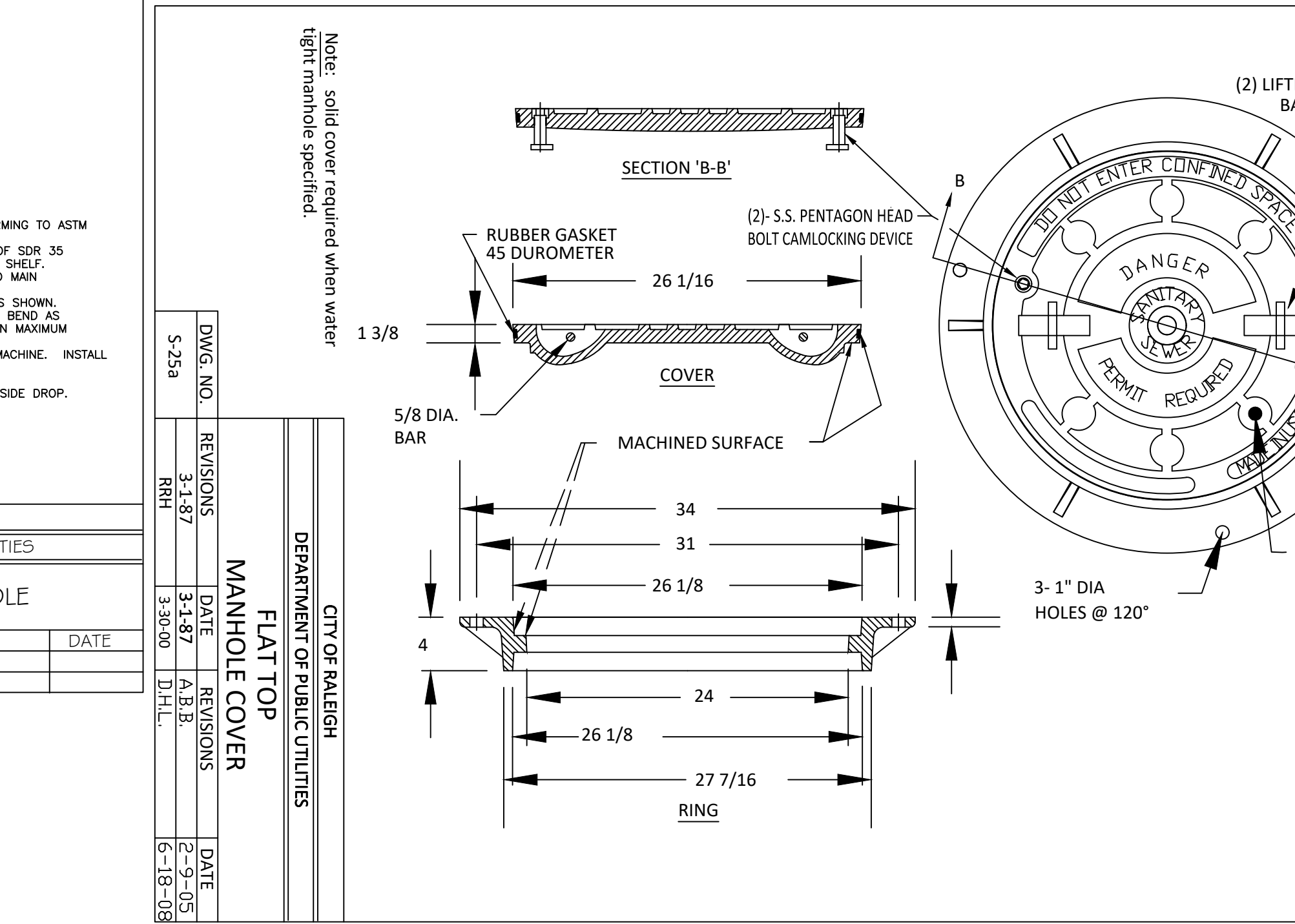
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
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		3-30-00	D.H.L.	6-18-08



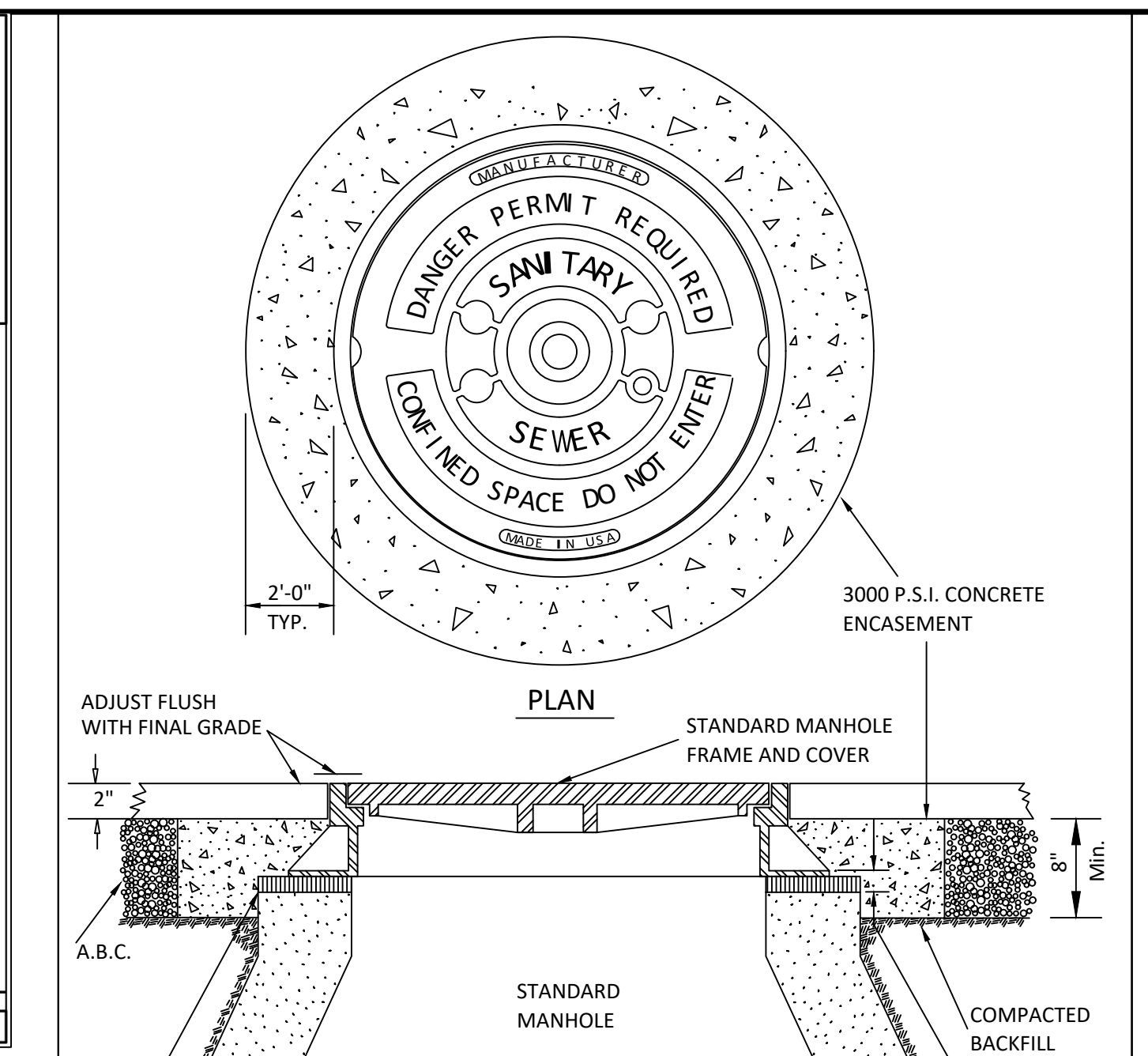
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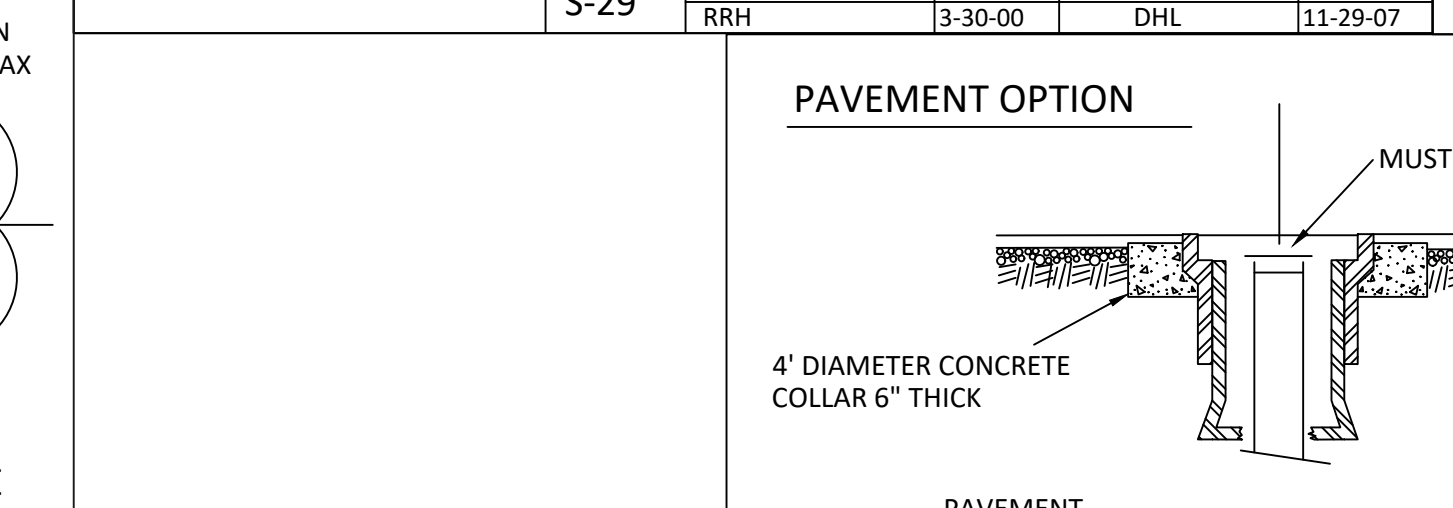
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S-49	DHL	2-20-08		



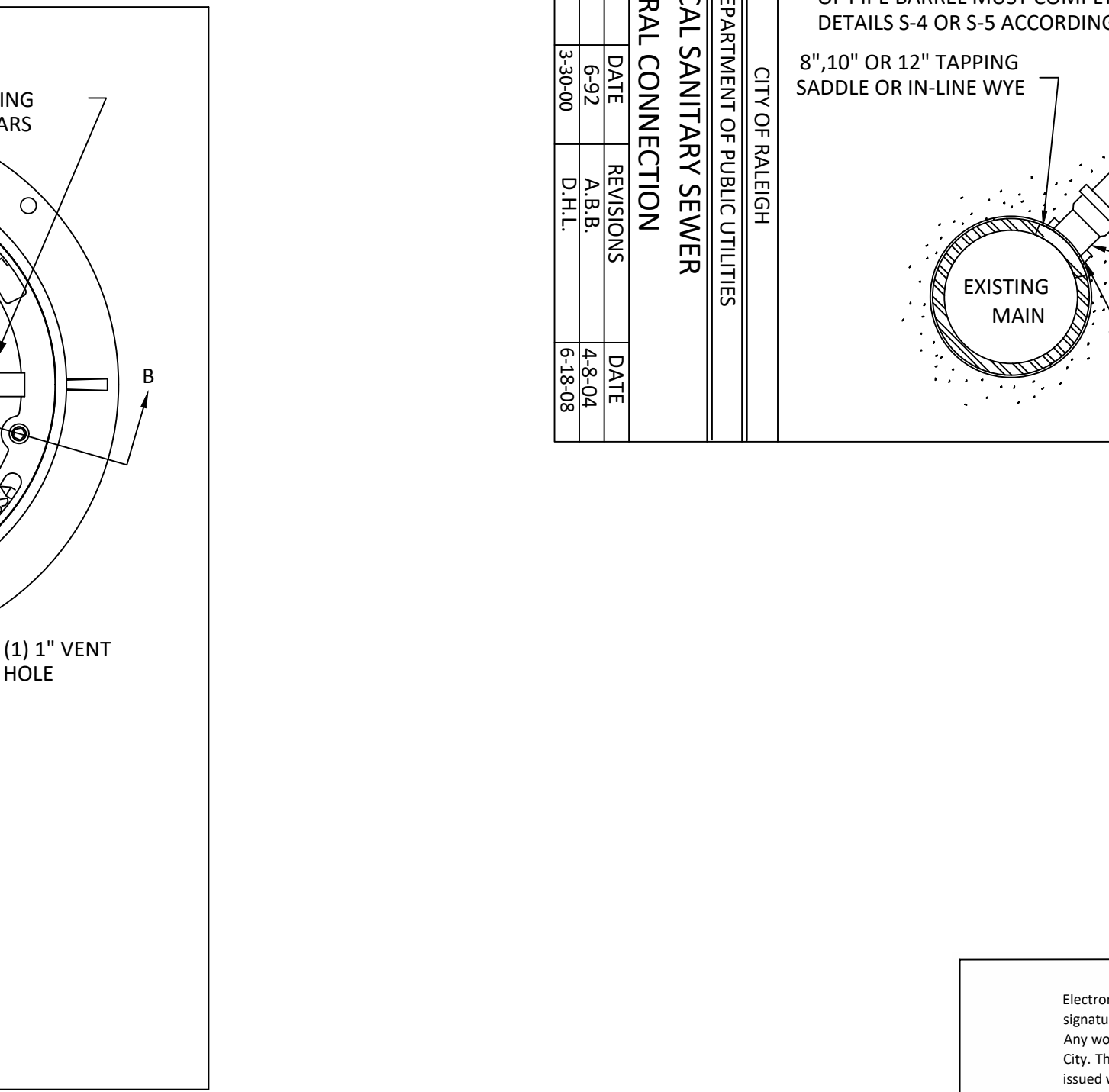
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		3-30-00	D.H.L.	6-18-08



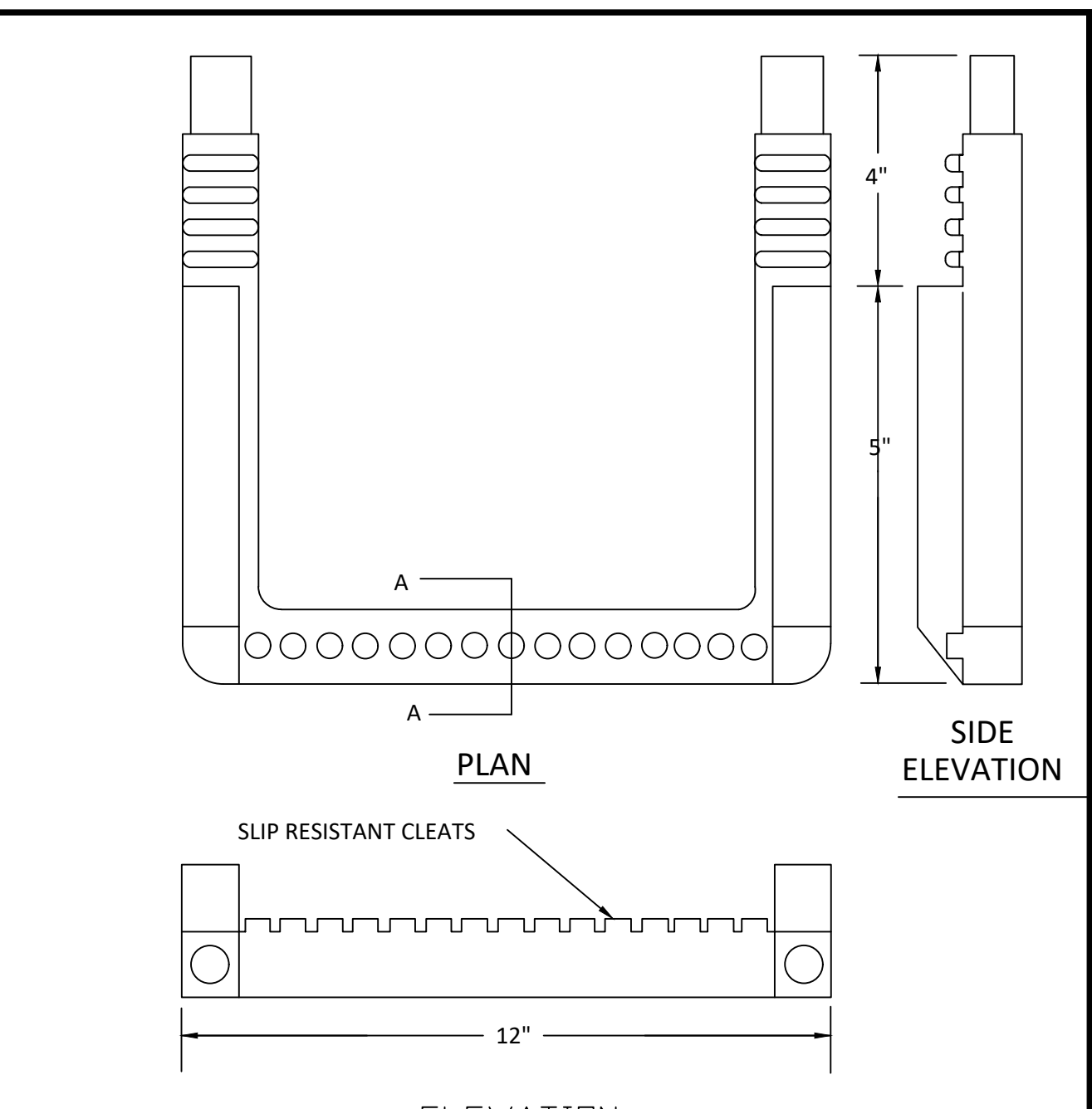
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	RRH	3-30-00	DHL	11-29-07



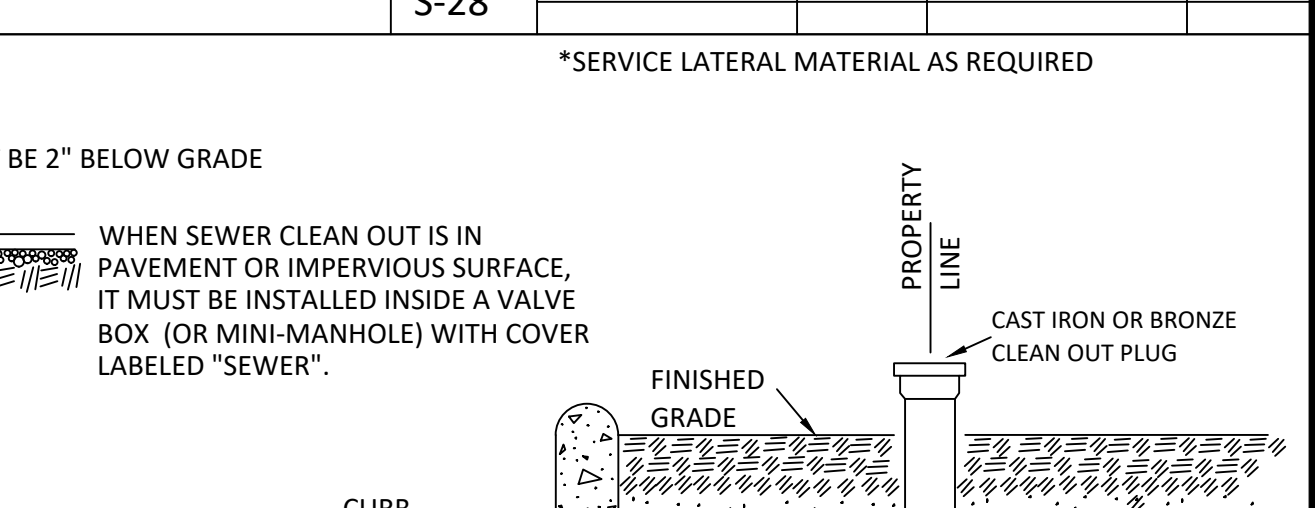
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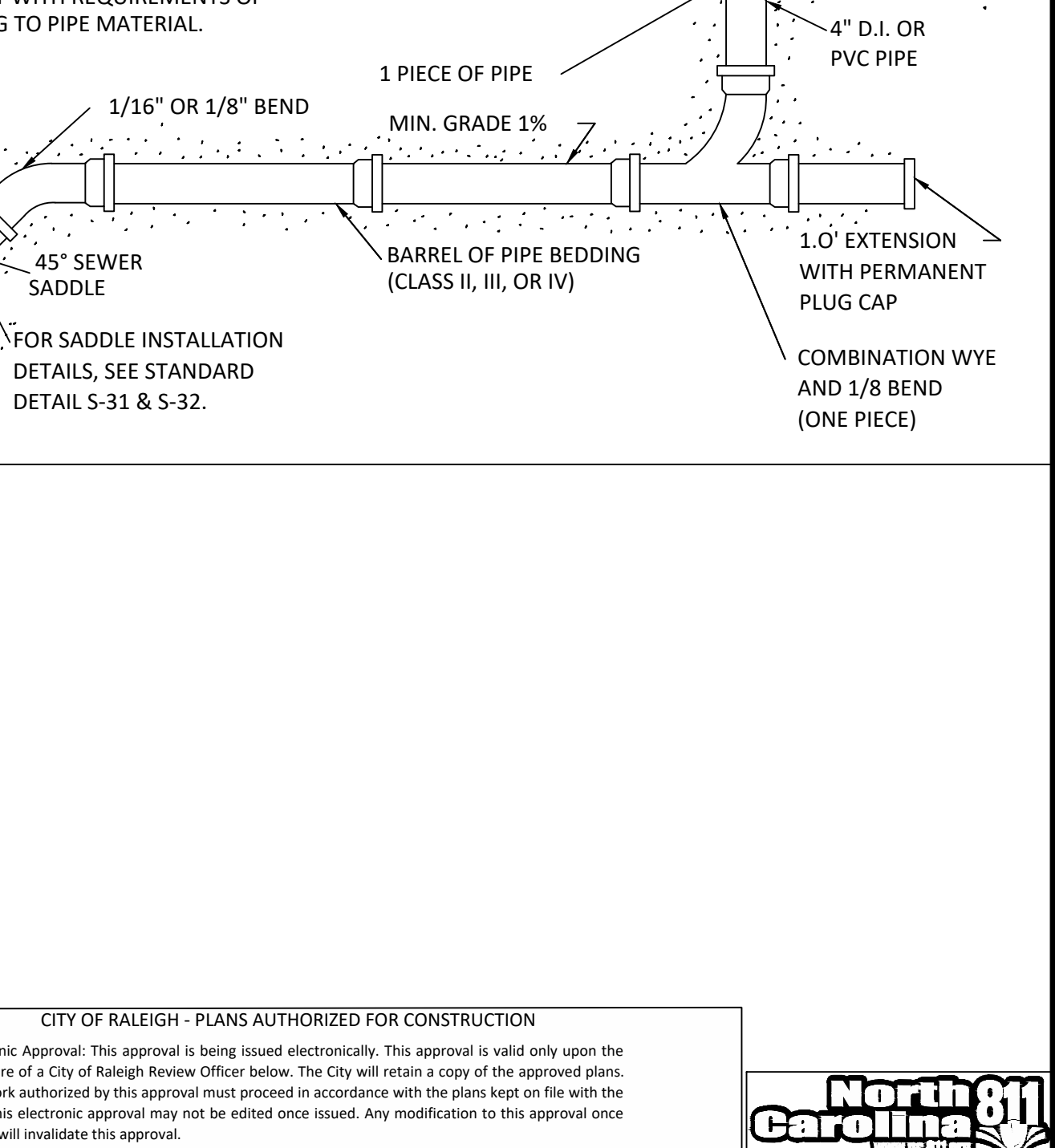
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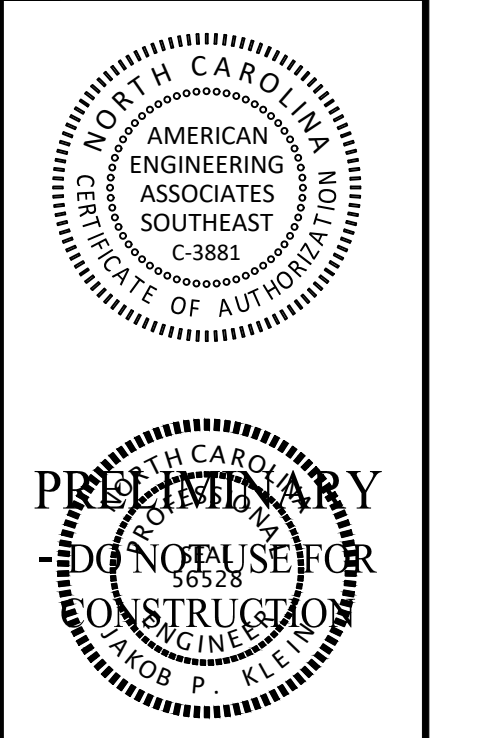
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S-28	RRH	3-30-00		



DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
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DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
S-28	RRH	3-30-00	D.H.L.	6-18-08



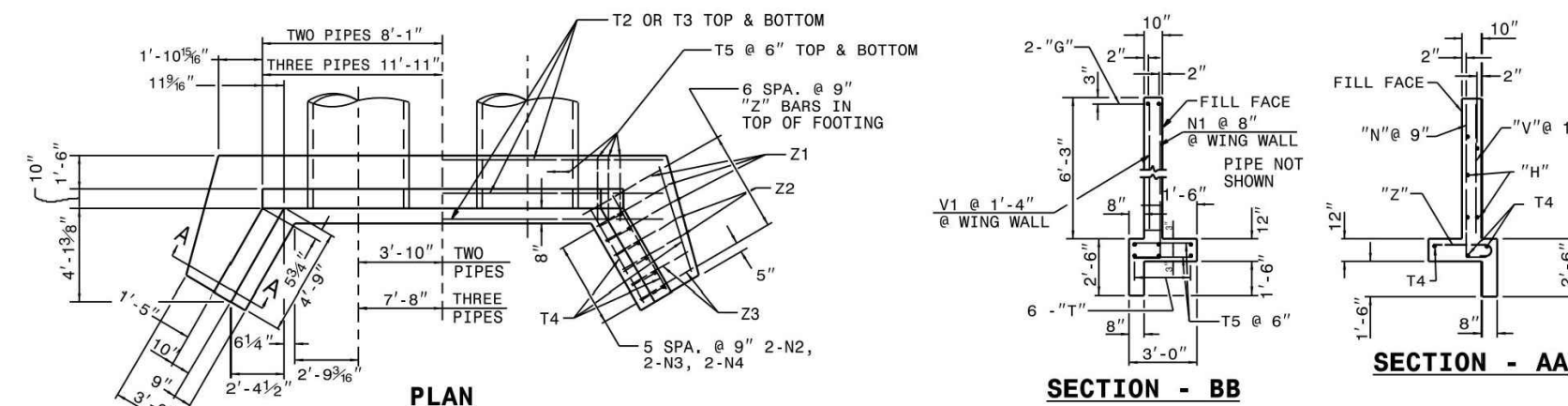
NO.	DATE	REVISION

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THE PRESERVE AT MOODY FARM
 ROLESVILLE ROAD
 WAKE COUNTY, NC

JOB NUMBER:	21-002
CHECKED BY:	JK
DRAWN BY:	RC & SM
DATE:	12/02/2024
SHEET TITLE:	UTILITY DETAILS
SHEET NO.:	CD10

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 City of Raleigh Development Approval _____
 Raleigh Water Review Officer



SEE STD. # 838.45 FOR GENERAL NOTES.

BILL OF MATERIAL FOR ENDWALL

REIN. STEEL	PIPE	NO.	WGT.
B1 #4	5'-6"	8	29
B2 #4	4'-6"	4	12
B3 #4	6'-0"	4	16
G1 #7	8'-2"	-	-
G2 #7	15'-10"	2	69
G3 #7	23'-5"	-	-
H1 #4	5'-6"	10	37
H2 #4	3'-6"	4	9
N1 #4	7'-11"	8	42
N2 #4	6'-7"	4	18
N3 #4	5'-8"	4	15
N4 #4	4'-9"	4	13
T1 #4	11'-10"	-	-
T2 #4	19'-6"	6	78
T3 #4	27'-2"	-	-
T4 #4	5'-3"	8	21
T5 #4	2'-6"	36	60
V1 #4	5'-9"	12	46
V2 #4	4'-10"	6	19
V3 #4	3'-11"	4	16
V4 #4	3'-1"	6	12
Z1 #4	3'-11"	6	16
Z2 #4	3'-5"	4	9
Z3 #4	3'-1"	4	8

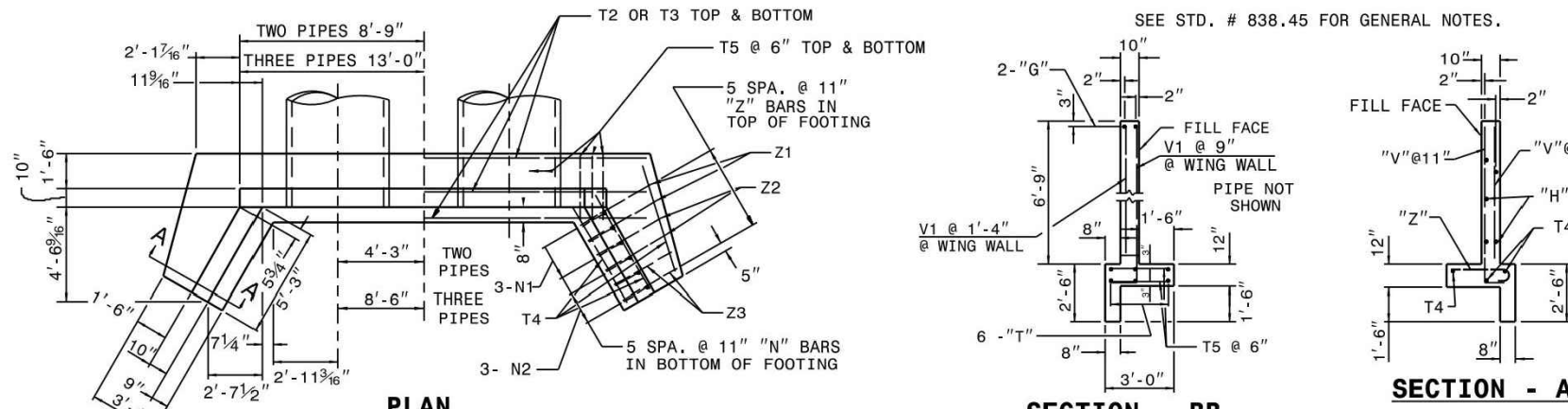
REIN. STEEL LBS. 588

CON./R.C. CU. YDS 6.9

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR
REINFORCED CONCRETE ENDWALL
FOR DOUBLE & TRIPLE 54" PIPE - 90° SKEW

SHEET 1 OF 2
838.22



SEE STD. # 838.45 FOR GENERAL NOTES.

BILL OF MATERIAL FOR ENDWALL

REIN. STEEL	PIPE	NO.	WGT.
B1 #4	5'-6"	8	29
B2 #4	4'-6"	4	12
B3 #4	6'-0"	4	16
G1 #7	8'-2"	-	-
G2 #7	17'-2"	2	70
G3 #7	25'-8"	-	-
H1 #4	6'-0"	10	40
H2 #4	4'-0"	4	11
N1 #4	3'-11"	14	57
N2 #4	3'-5"	6	14
T1 #4	21'-2"	6	85
T2 #4	29'-8"	6	111
T4 #4	5'-6"	6	22
T5 #4	2'-6"	72	117
V1 #4	6'-3"	12	50
V2 #4	5'-1"	6	20
V3 #4	3'-11"	4	16
V4 #4	3'-1"	6	11
Z1 #4	4'-4"	4	18
Z2 #4	3'-10"	4	10
Z3 #4	3'-5"	4	8

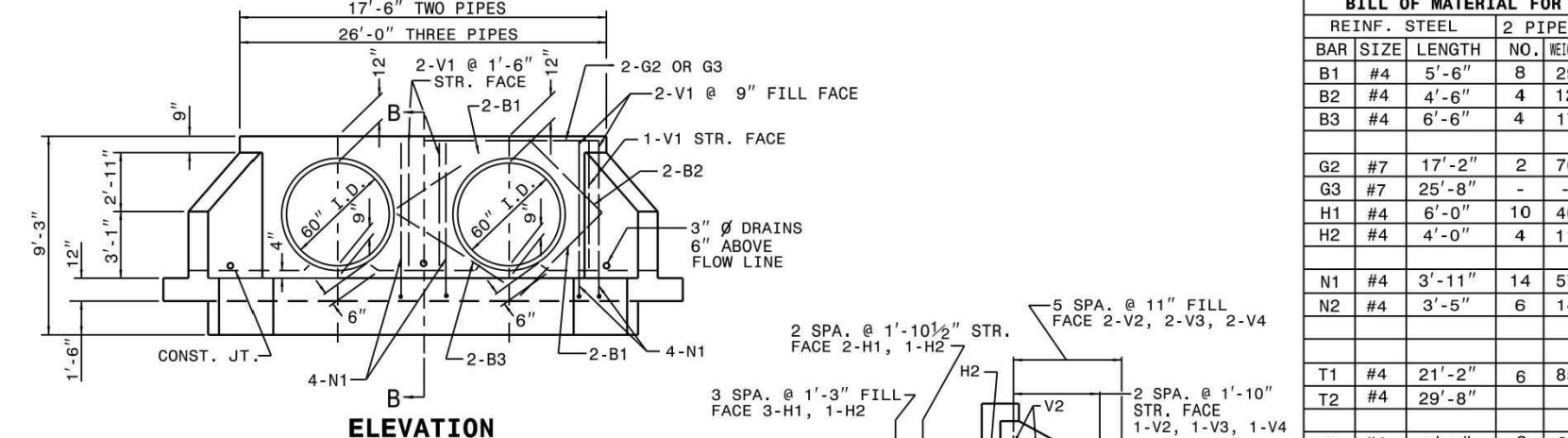
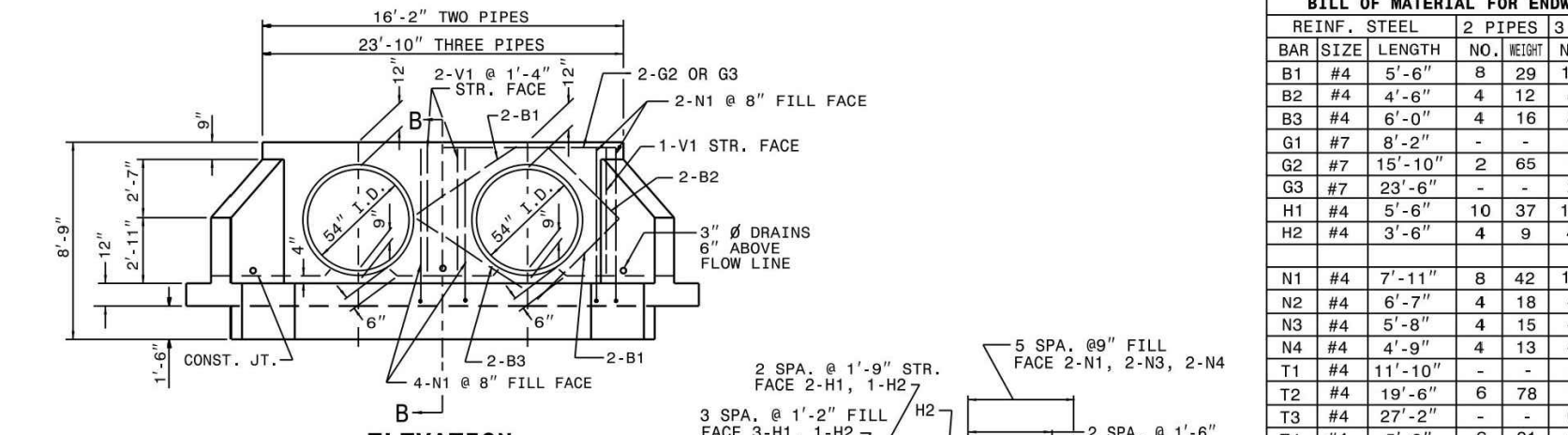
REIN. STEEL LBS. 607

CON./R.C. CU. YDS 7.9

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR
REINFORCED CONCRETE ENDWALL
FOR DOUBLE & TRIPLE 60" PIPE - 90° SKEW

SHEET 1 OF 2
838.28

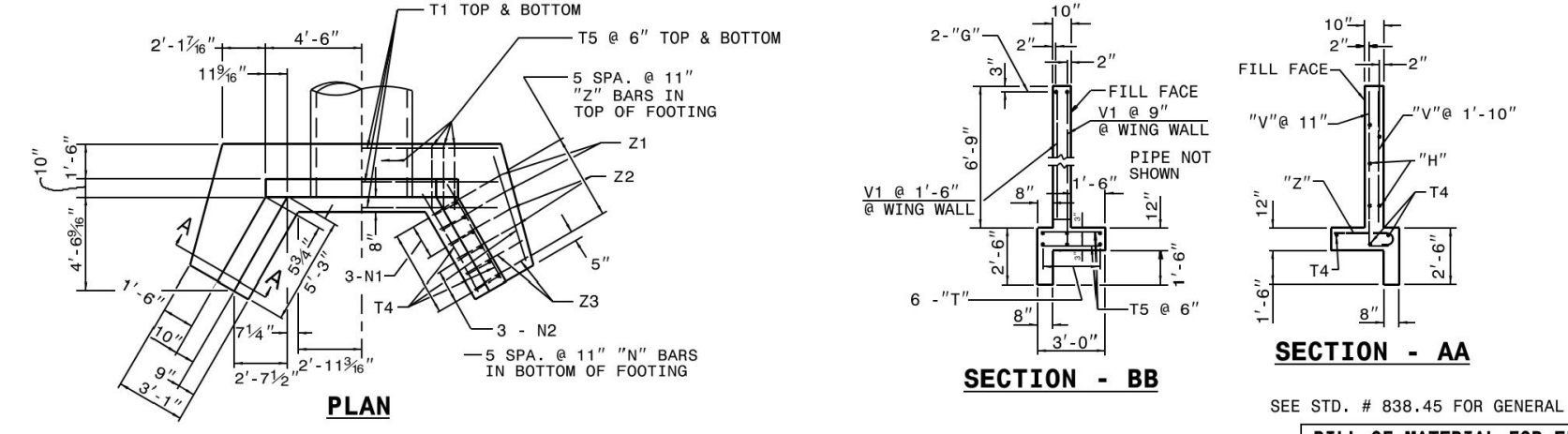


"H" BARS
"N" BARS
"Z" BARS

"H", "N", & "Z" BAR DIMENSIONS ARE OUT TO OUT.

"H" BARS
"N" BARS
"Z" BARS

"H", "N", & "Z" BAR DIMENSIONS ARE OUT TO OUT.



SEE STD. # 838.45 FOR GENERAL NOTES.

BILL OF MATERIAL FOR ENDWALL

REIN. STEEL	PIPE	NO.	WGT.
B1 #4	5'-6"	4	15
B2 #4	4'-6"	4	12
G1 #7	8'-8"	2	35
H1 #4	6'-0"	10	40
H2 #4	4'-0"	4	11
N1 #5	3'-11"	10	41
N2 #4	3'-5"	6	14
T1 #4	12'-8"	6	51
T4 #4	5'-6"	6	22
T5 #4	2'-6"	36	60
V1 #4	6'-3"	6	25
V2 #4	5'-1"	6	20
V3 #4	3'-11"	6	16
V4 #4	2'-9"	6	11
Z1 #5	4'-4"	4	18
Z2 #4	3'-10"	4	10
Z3 #4	3'-2"	4	8

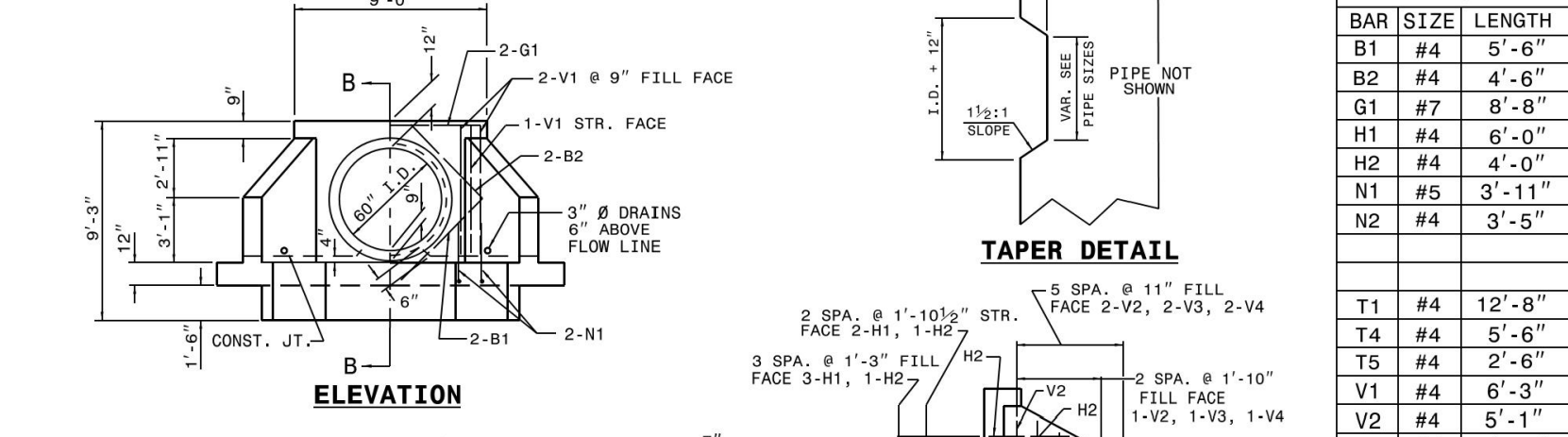
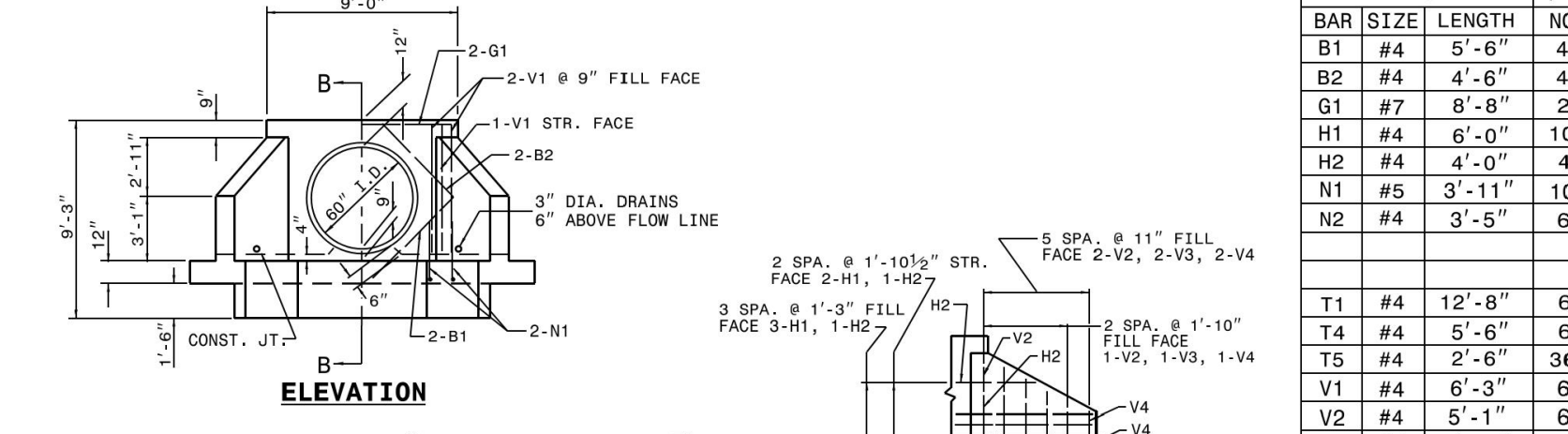
REIN. STEEL LBS. 409

CON./R.C. CU. YDS 5.6

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR
REINFORCED CONCRETE ENDWALL
FOR SINGLE 60" PIPE - 90° SKEW

SHEET 1 OF 2
838.27

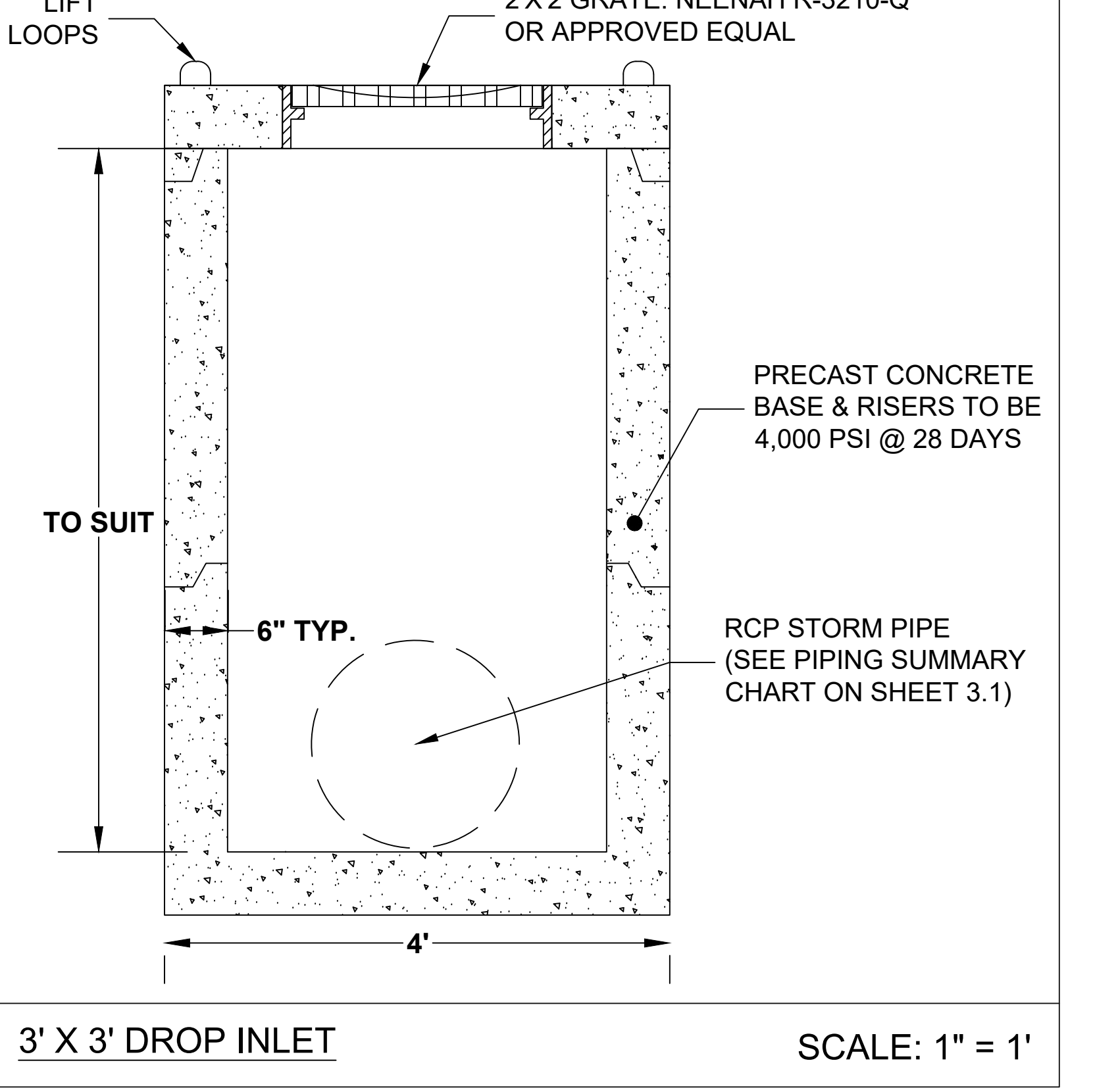
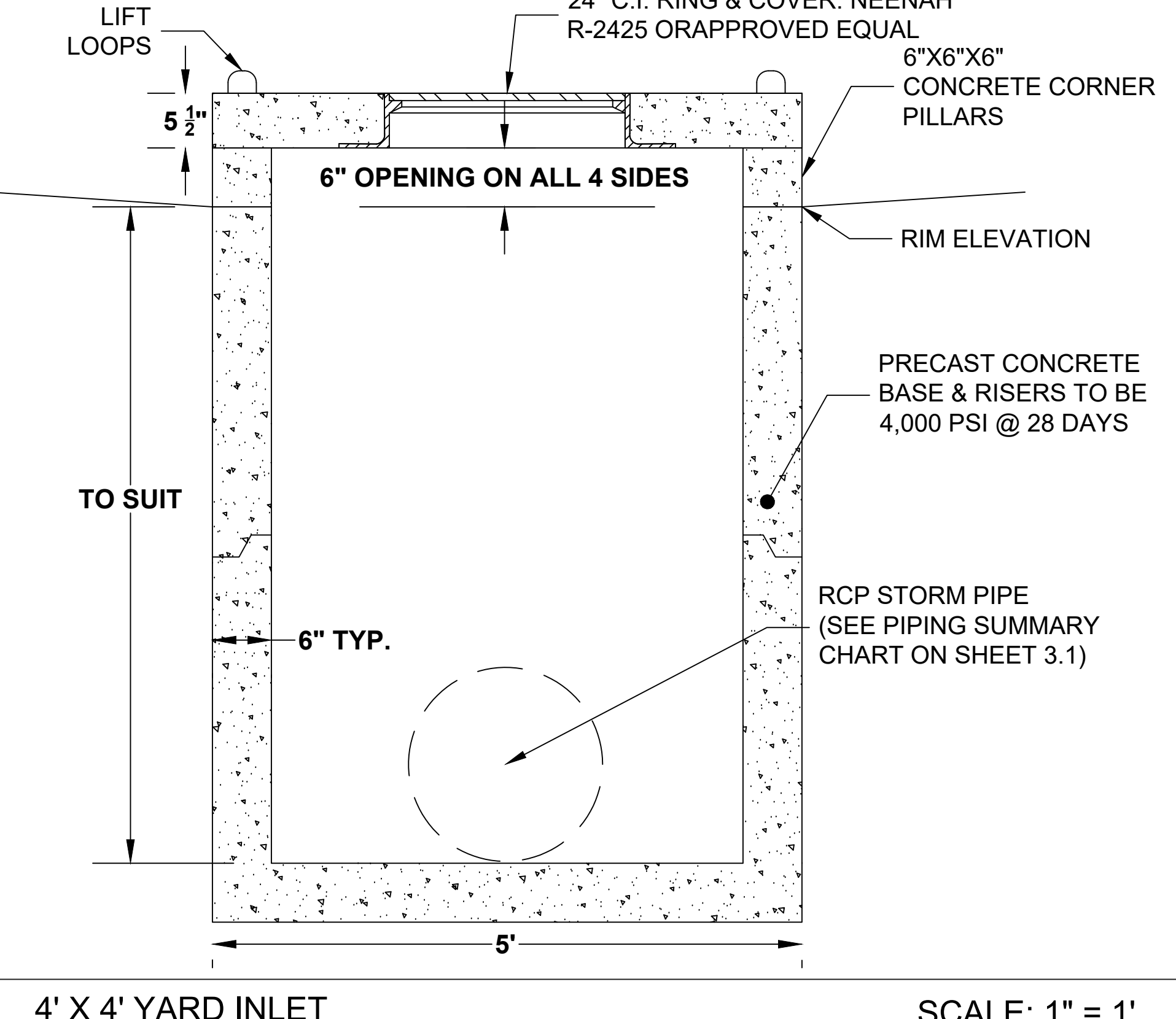


"H" BARS
"N" BARS
"Z" BARS

"H", "N", & "Z" BAR DIMENSIONS ARE OUT TO OUT.

"H" BARS
"N" BARS
"Z" BARS

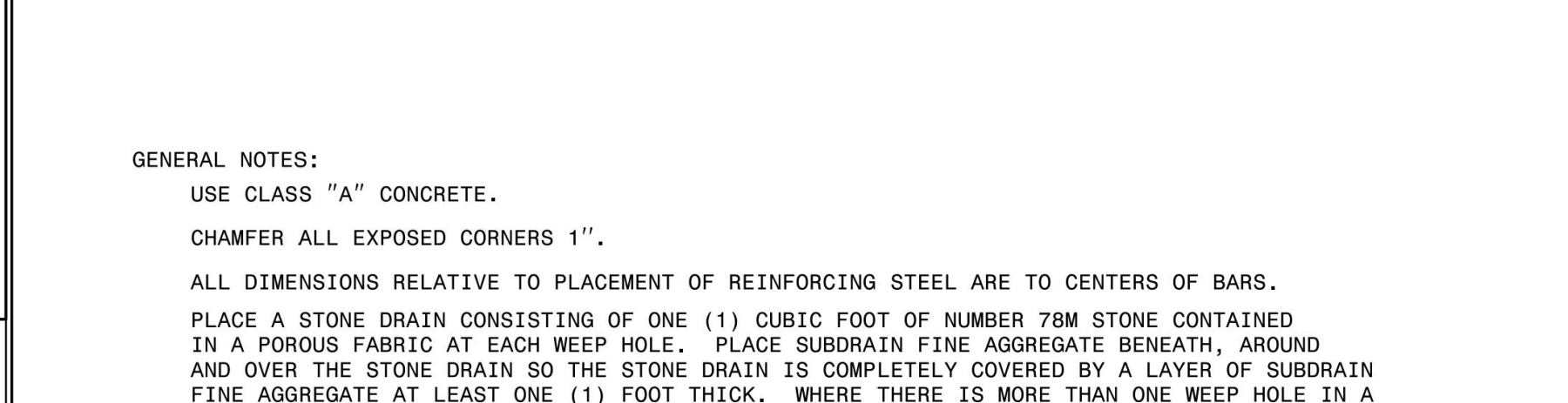
"H", "N", & "Z" BAR DIMENSIONS ARE OUT TO OUT.



STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR
REINFORCED CONCRETE ENDWALL
FOR SINGLE 60" PIPE - 90° SKEW

SHEET 2 OF 2
838.27



SEE STD. # 838.45 FOR GENERAL NOTES.

BILL OF MATERIAL FOR ENDWALL

REIN. STEEL	PIPE	NO.	WGT.
B1 #4	5'-6"	4	15
B2 #4	4'-6"	4	12
G1 #7	8'-8"	2	35
H1 #4	6'-0"	10	40
H2 #4	4'-0"	4	11
N1 #5	3'-11"	10	41
N2 #4	3'-5"	6	14
T1 #4	12'-8"	6	51
T4 #4	5'-6"	6	22
T5 #4	2'-6"	36	60
V1 #4	6'-3"	6	25
V2 #4	5'-1"	6	20
V3 #4	3'-11"	6	16
V4 #4	2'-9"	6	11
Z1 #5	4'-4"	4	18
Z2 #4	3'-10"	4	10
Z3 #4	3'-2"	4	8

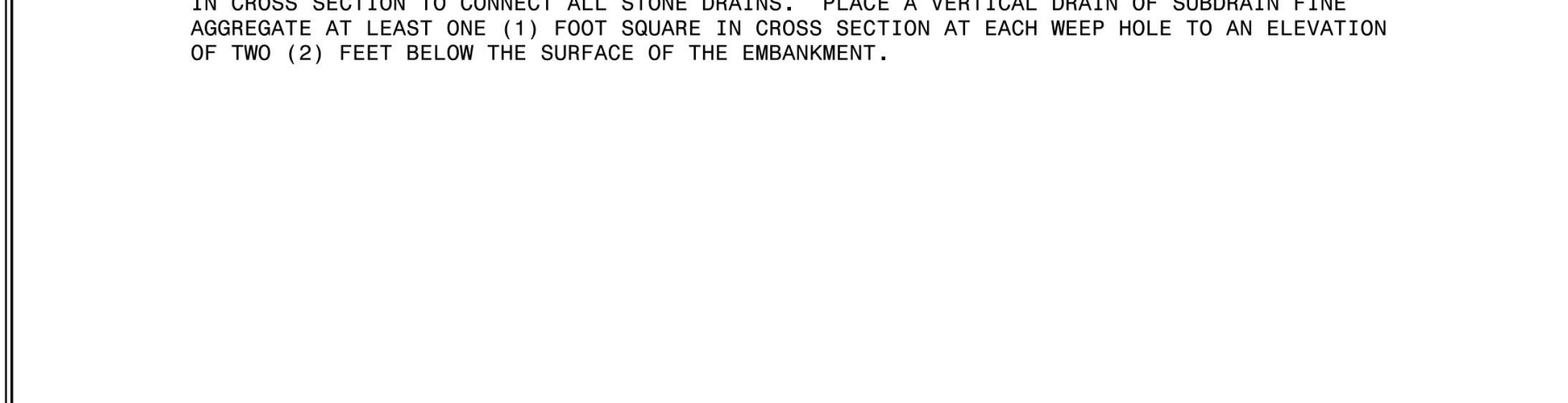
REIN. STEEL LBS. 409

CON./R.C. CU. YDS 5.9

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

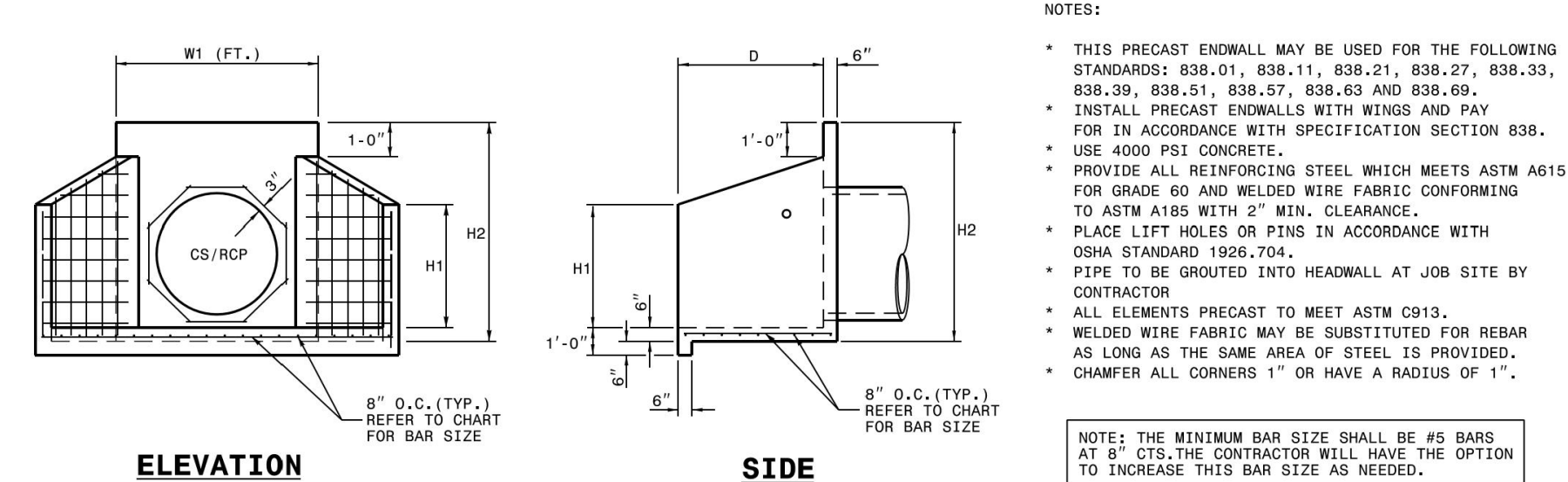
ROADWAY STANDARD DRAWING FOR
REINFORCED CONCRETE ENDWALL
FOR SINGLE 60" PIPE - 90° SKEW

SHEET 2 OF 2
838.27



"H" BARS
"N" BARS
"Z" BARS

"H", "N", & "Z" BAR DIMENSIONS ARE OUT TO OUT.



ENDWALL DIMENSIONS

PIPE DIA.	BAR SIZE	MIN./MAX.	MIN./MAX.	MIN./MAX.	MIN./MAX.	MIN./MAX.
1.0	#5 @ 8"	1.25/2.00	2.00/3.75	1.25/1.75	3.00/3.75	5.50/6.00
1.25	#5 @ 8"	1.25/2.00	3.00/3.75	1.25/2.00	3.50/3.75	6.50/6.75
1.50	#5 @ 8"	1.25/2.00	3.00/4.25	1.50/2.50	3.50/3.75	6.50/6.75
2.0	#5 @ 8"	1.50/2.50	4.00/4.75	1.75/2.50	4.00/4.25	7.50/8.25
2.5	#5 @ 8"	2.50/3.50	4.00/6.00	2.00/3.00	4.50/5.50	10.00/11.50
3.0	#5 @ 8"	3.00/3.50	5.00/6.00	2.75/3.50	5.25/5.75	11.50/11.75
3.5	#5 @ 8"	3.25/4.50	6.00/6.75	3.25/3.50	6.00/6.75	12.00/13.25
4.0	#5 @ 8"	3.50/4.50	6.50/7.00	3.25/3.50	6.50/6.75	13.00/13.25
4.5	#5 @ 8"	4.00/5.00	6.50/8.50	3.25/4.00	7.00/9.25	13.50/15.75
5.0	#5 @ 8"	4.50/5.00	7.00/8.50	3.25/4.00	7.25/9.25	13.75/15.75
5.5	#5 @ 8"	4.50/5.00	7.50/8.50	3.25/4.00	7.25/9.25	14.00/15.75
6.0	#5 @ 8"	4.50/5.00	7.50/8.50	3.25/4.00	7.75/9.25	14.75/16.75

GENERAL NOTES:

CHAMFER ALL CORNERS 1" OR HAVE A RADIUS OF 1".

PLACE 2 #6 "Y" BARS IN THE TOP OF ALL ENDWALL FOR PIPE CULVERTS 42" AND OVER WITH A MINIMUM OF 3" COVER AND A LENGTH OF 6" LESS THAN ENDWALL LENGTH.

CONSTRUCT BOTTOM SLAB WITH FORMS.

DO NOT INTERPRET WALL THICKNESS (T) SHOWN FOR THE THICKNESS ACCEPTABLE, BUT IS USED IN COMPUTING ENDWALL QUANTITIES.

WHEN THE CONTRACTOR ELECTS TO USE A CONSTRUCTION JOINT AT THE BOTTOM OF THE PIPE, PLACE BAR "X" DOWELS IN THE BASE AS SHOWN ON PLANS. SPACE BARS APPROXIMATELY ON 12" CENTERS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

WHEN THE CONTRACTOR ELECTS TO USE A CONSTRUCTION JOINT AT THE BOTTOM OF THE PIPE AND POUR THE BASE SEPARATELY LEAVE THE JOINT ROUGH.

USE CLASS "B" CONCRETE.

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR
REINFORCED CONCRETE ENDWALL
FOR SINGLE 60" PIPE - 90° SKEW

SHEET 3 OF 3
838.01

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR
NOTES FOR REINFORCED CONCRETE ENDWALL
STANDARD DRAWINGS 838.21 THRU 838.40

SHEET 1 OF 1
838.45

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR
REINFORCED CONCRETE ENDWALL
FOR SINGLE 12" THRU 72" PIPE - 90° SKEW

SHEET 1 OF 1
838.80

STIPULATION FOR REUSE

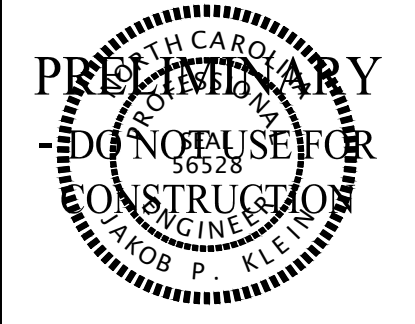
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THE PRESERVE AT MOODY FARM
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 12/02/2024

SHEET TITLE:
DRAINAGE DETAILS

SHEET NO.:
CD11



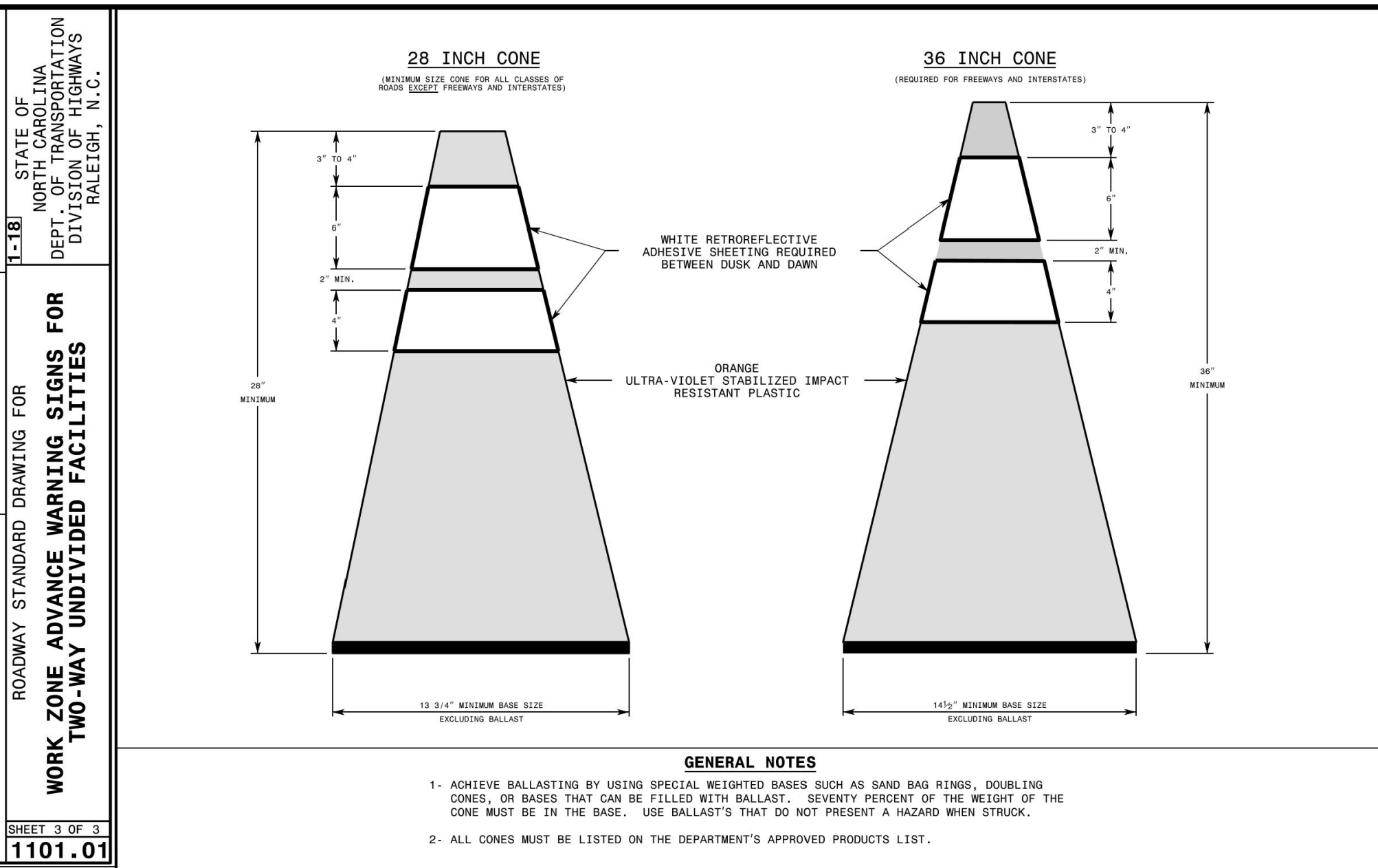
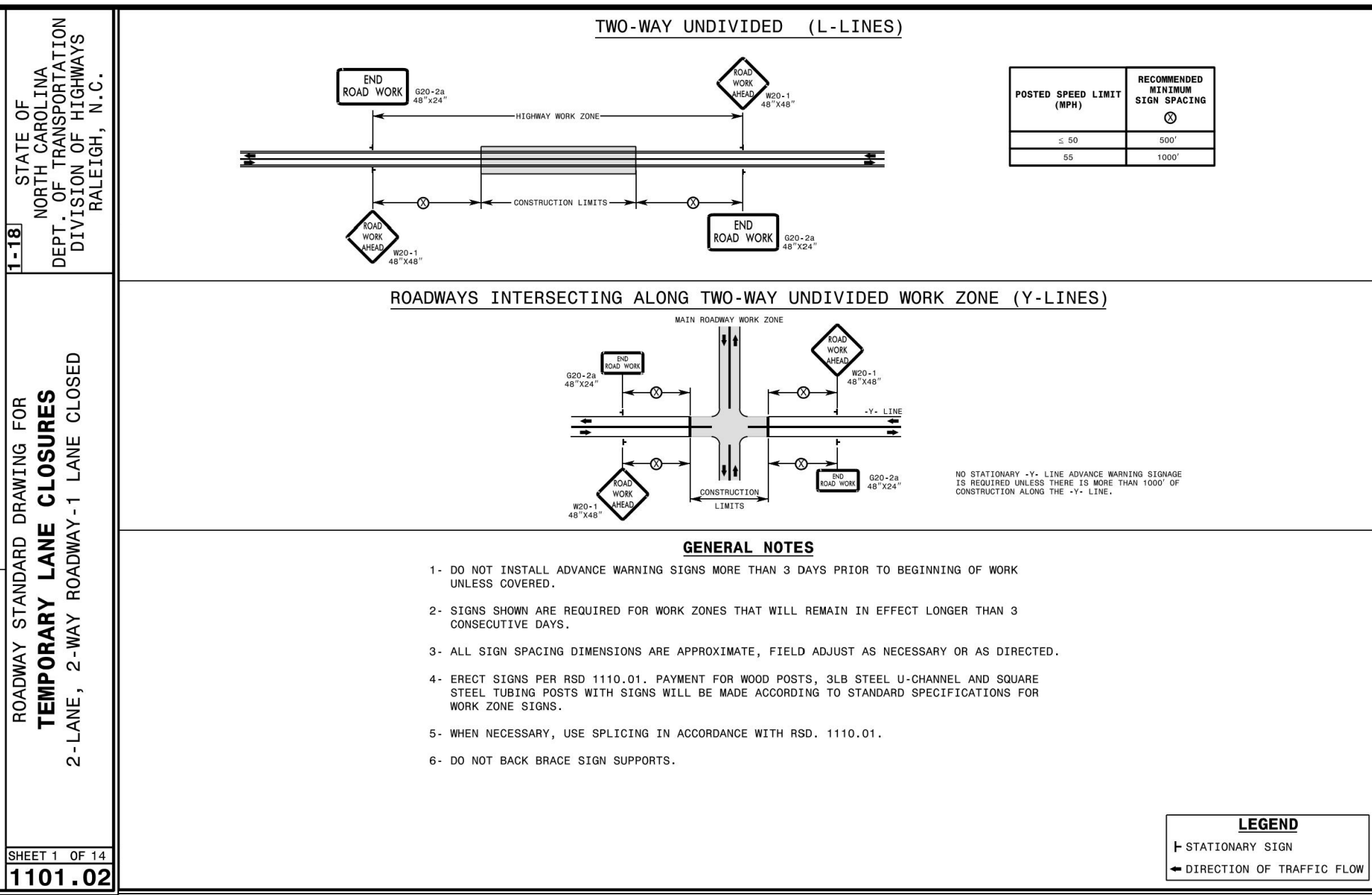
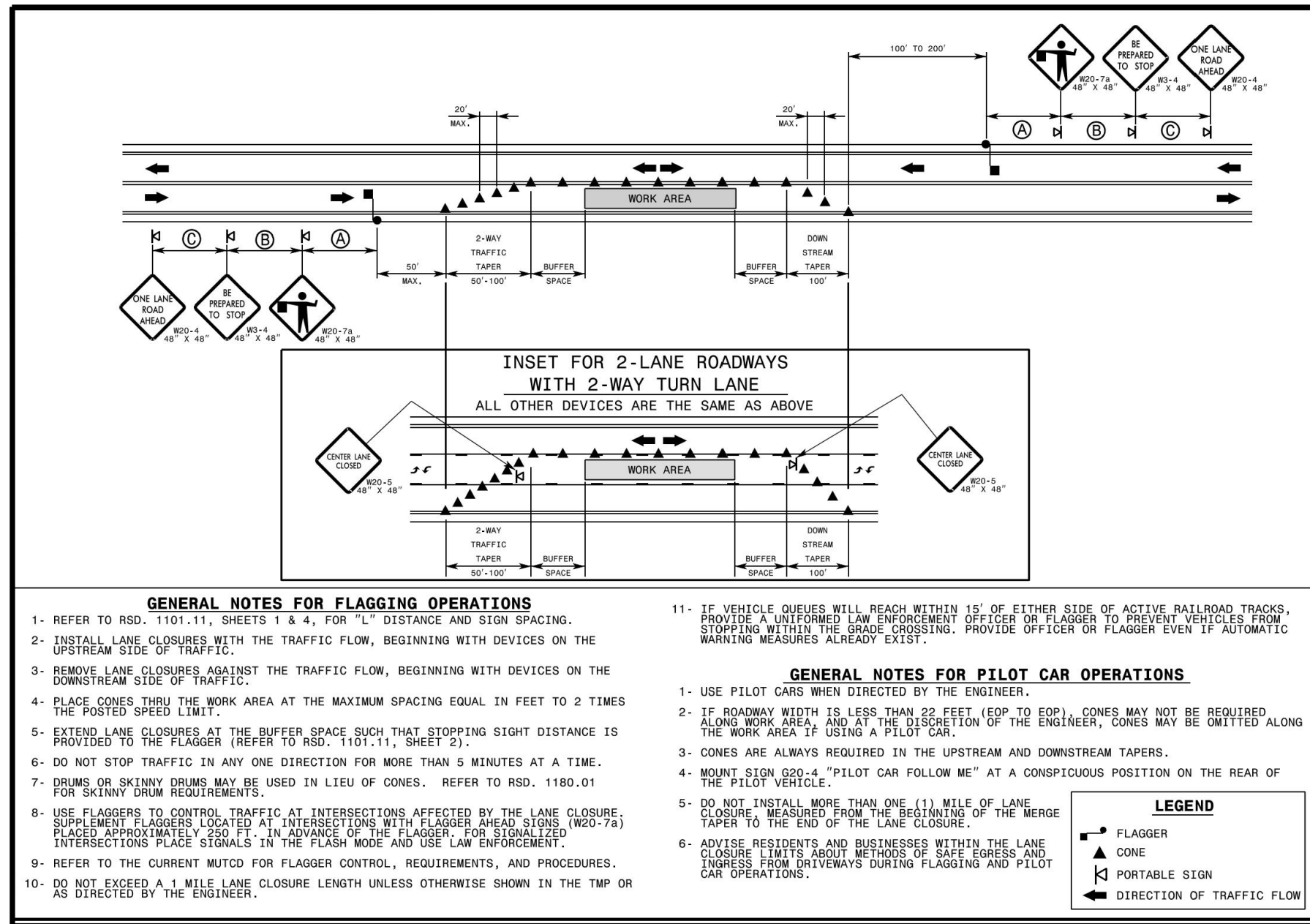
CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

Electronic Approval: This approval is being issued electronically. This approval is valid only upon the signature of a City of Raleigh Review Officer below. The City will retain a copy of the approved plans. Any work authorized by this approval must proceed in accordance with the plans kept on file with the City. This electronic approval may not be relied upon if issued. Any modification to this approval once issued will invalidate this approval.

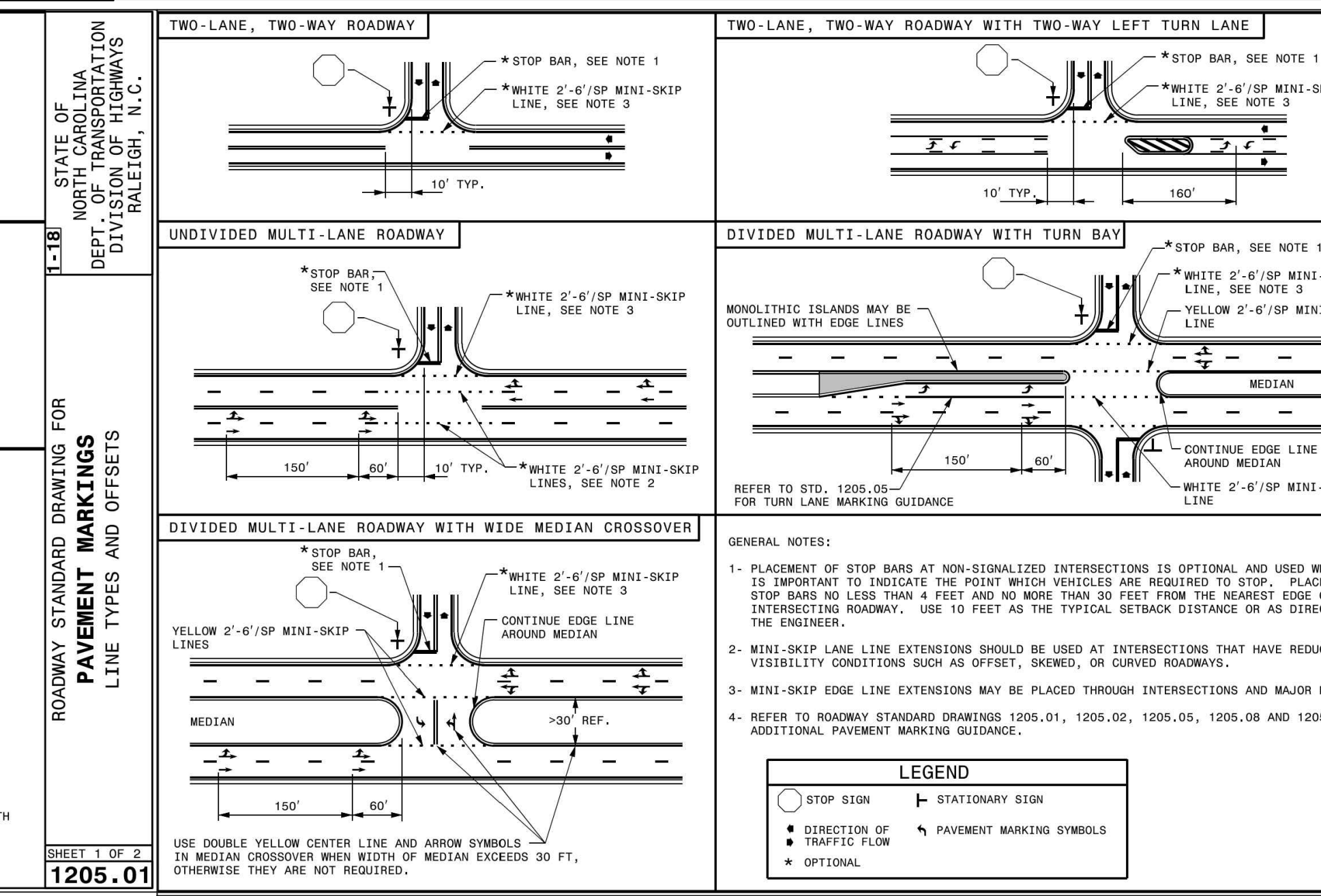
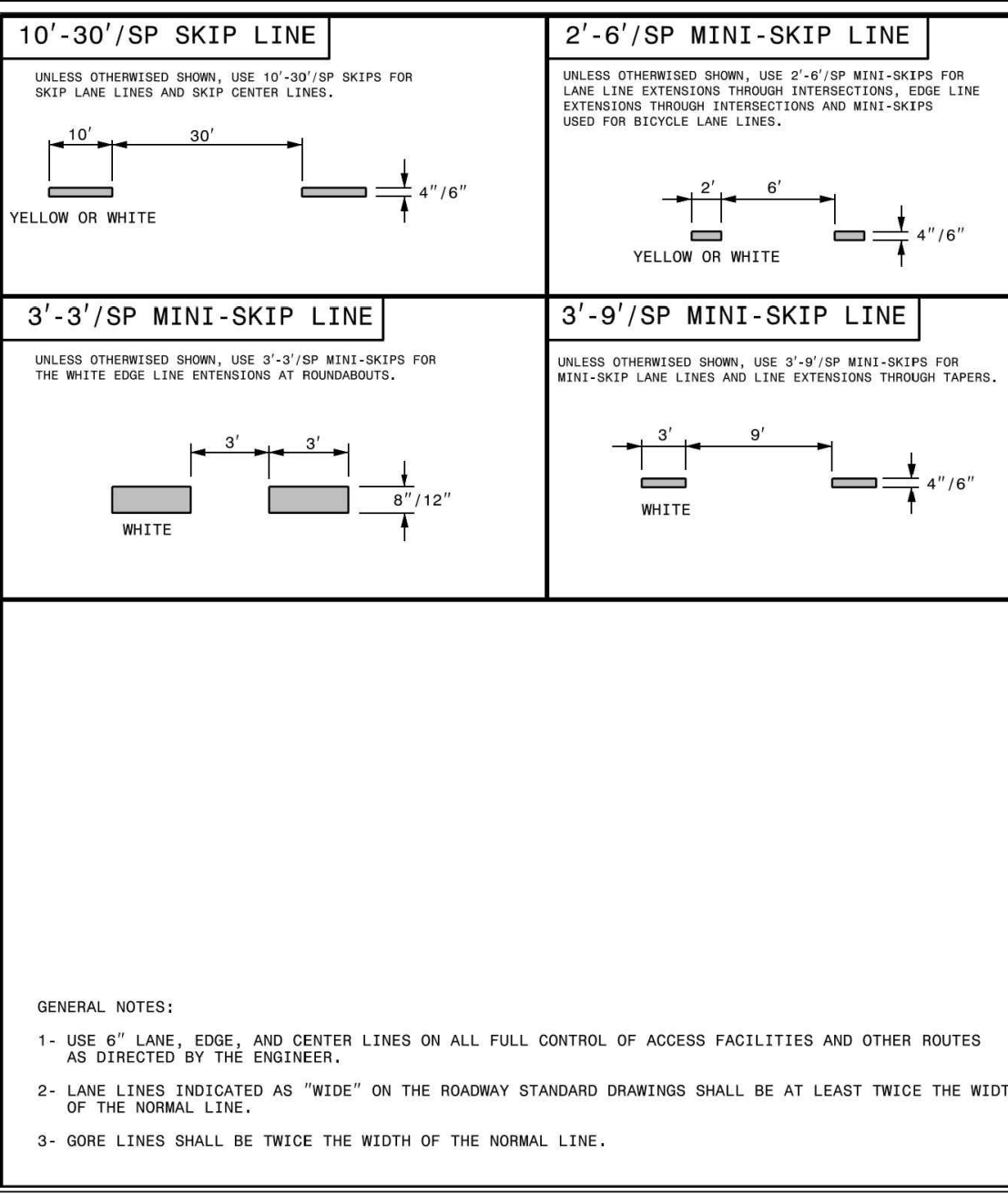
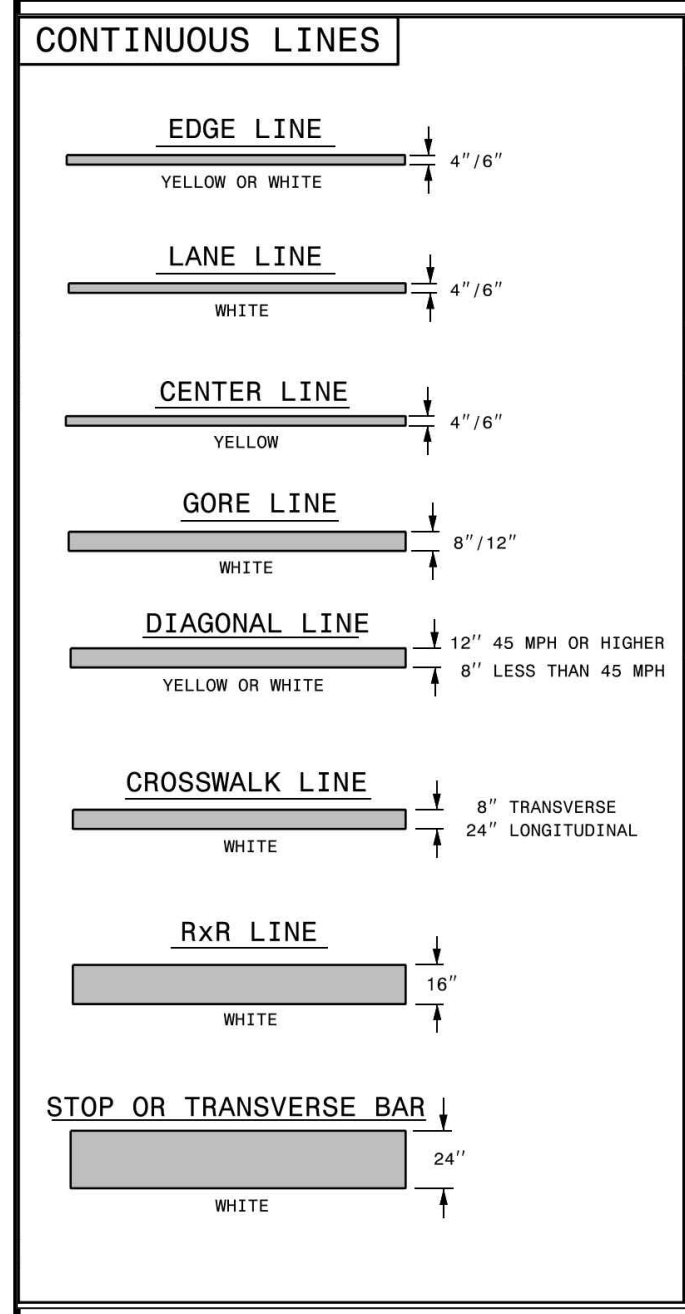
City of Raleigh Development Approval

Raleigh Water Review Officer





ROADWAY STANDARD DRAWING FOR
CONES
SHEET 1 OF 1
1135.01



ROADWAY STANDARD DRAWING FOR
PAVEMENT MARKINGS
INTERSECTIONS
SHEET 2 OF 2
1205.04

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N. C.

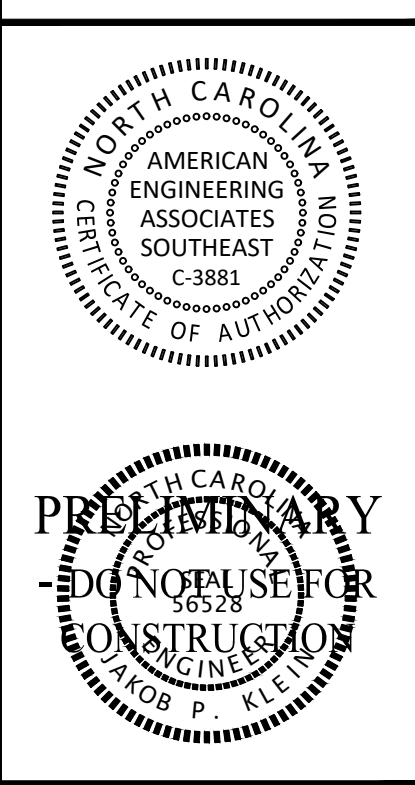
CONTINUOUS LINES
EDGE LINE
LANE LINE
CENTER LINE
GORE LINE
DIAGONAL LINE
CROSSWALK LINE
RxR LINE
STOP OR TRANSVERSE BAR

10'-30'/SP SKIP LINE
2'-6'/SP MINI-SKIP LINE
3'-3'/SP MINI-SKIP LINE
3'-9'/SP MINI-SKIP LINE
GENERAL NOTES:
1. USE 6" LANE, EDGE, AND CENTER LINES ON ALL FULL CONTROL OF ACCESS FACILITIES AND OTHER ROUTES AS DIRECTED BY THE ENGINEER.
2. LANE LINES INDICATED AS "WIDE" ON THE ROADWAY STANDARD DRAWINGS SHALL BE AT LEAST TWICE THE WIDTH OF THE NORMAL LINE.
3. GORE LINES SHALL BE TWICE THE WIDTH OF THE NORMAL LINE.

TWO-LANE, TWO-WAY ROADWAY
TWO-LANE, TWO-WAY ROADWAY WITH TWO-WAY LEFT TURN LANE
UNDIVIDED MULTI-LANE ROADWAY
DIVIDED MULTI-LANE ROADWAY WITH TURN BAY
DIVIDED MULTI-LANE ROADWAY WITH WIDE MEDIAN CROSSOVER
GENERAL NOTES:
1. PLACEMENT OF STOP BARS AT NON-SIGNALIZED INTERSECTIONS IS OPTIONAL AND USED WHERE IT IS IMPORTANT TO INDICATE THE POINT WHERE VEHICLES ARE REQUIRED TO STOP. PLACE STOP BARS NO LESS THAN 4 FEET AND NO MORE THAN 30 FEET FROM THE NEAREST EDGE OF THE INTERSECTING ROADWAY. USE 10 FEET AS THE TYPICAL SETBACK DISTANCE OR AS DIRECTED BY THE ENGINEER.
2. MINI-SKIP LANE LINE EXTENSIONS SHOULD BE USED AT INTERSECTIONS THAT HAVE REDUCED VISIBILITY CONDITIONS SUCH AS OFFSET, SKEWED, OR CURVED ROADWAYS.
3. MINI-SKIP EDGE LINE EXTENSIONS MAY BE PLACED THROUGH INTERSECTIONS AND MAJOR DRIVEWAYS.
4. REFER TO ROADWAY STANDARD DRAWINGS 1205.01, 1205.02, 1205.05, 1205.08 AND 1205.09 FOR ADDITIONAL PAVEMENT MARKING GUIDANCE.

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N. C.

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N. C.



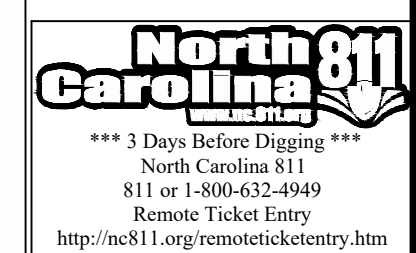
NO.	DATE	REVISION:

STIPULATION FOR REUSE
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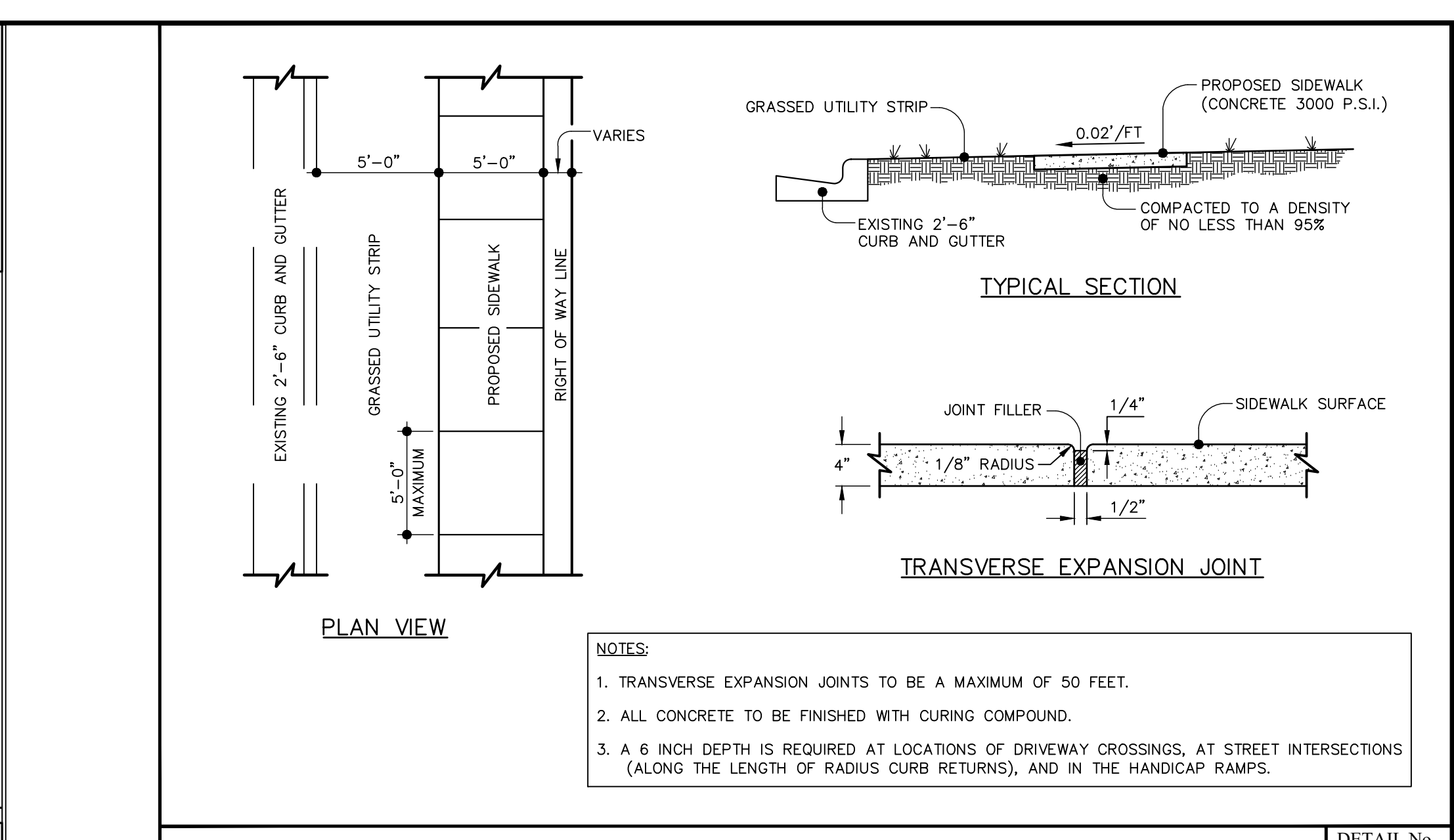
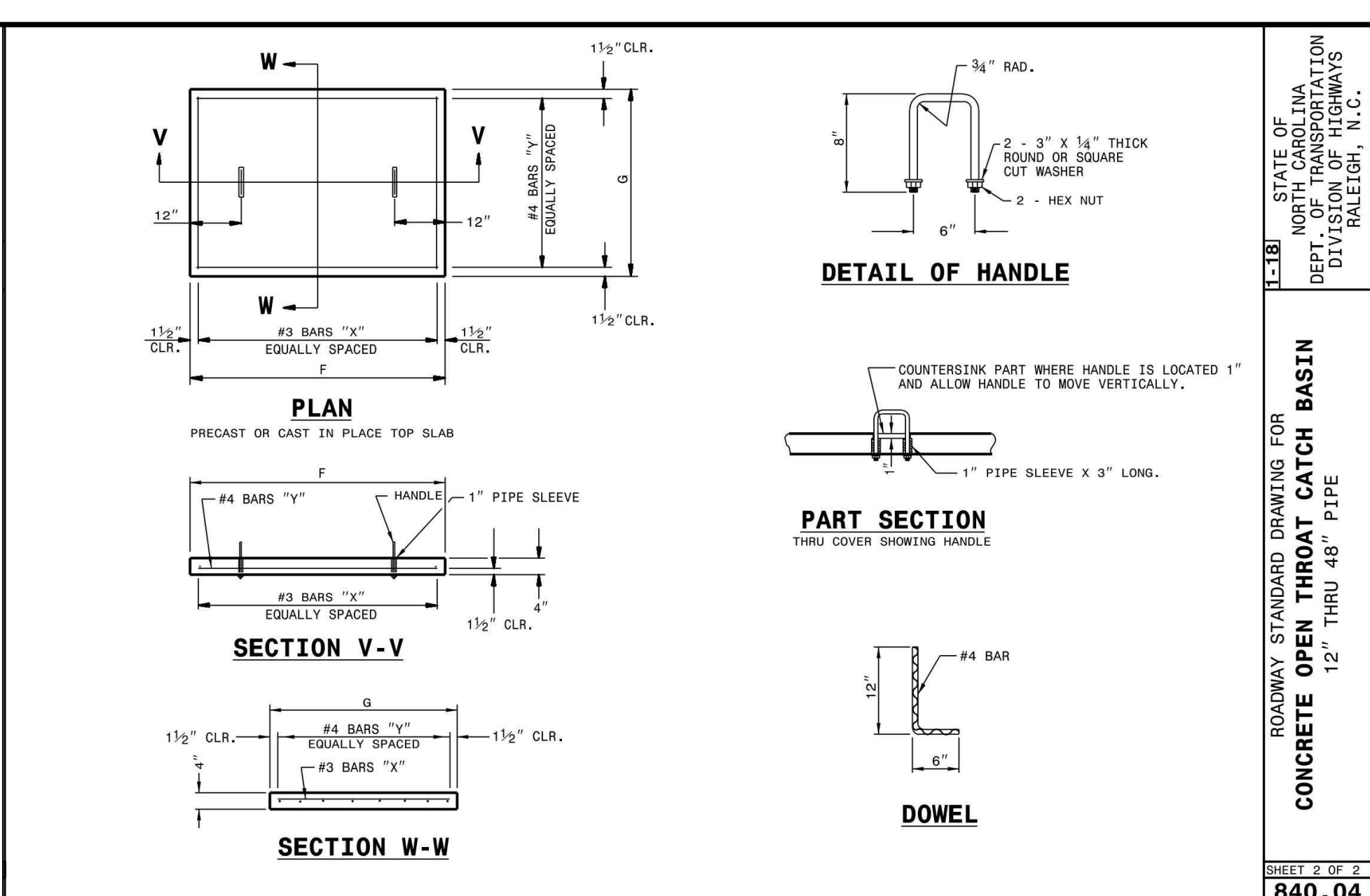
THE PRESERVE
AT
MOODY FARM
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 12/02/2024
SHEET TITLE:
SITE DETAILS
SHEET NO.:
CD14

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION
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City of Raleigh Development Approval _____
Raleigh Water Review Officer



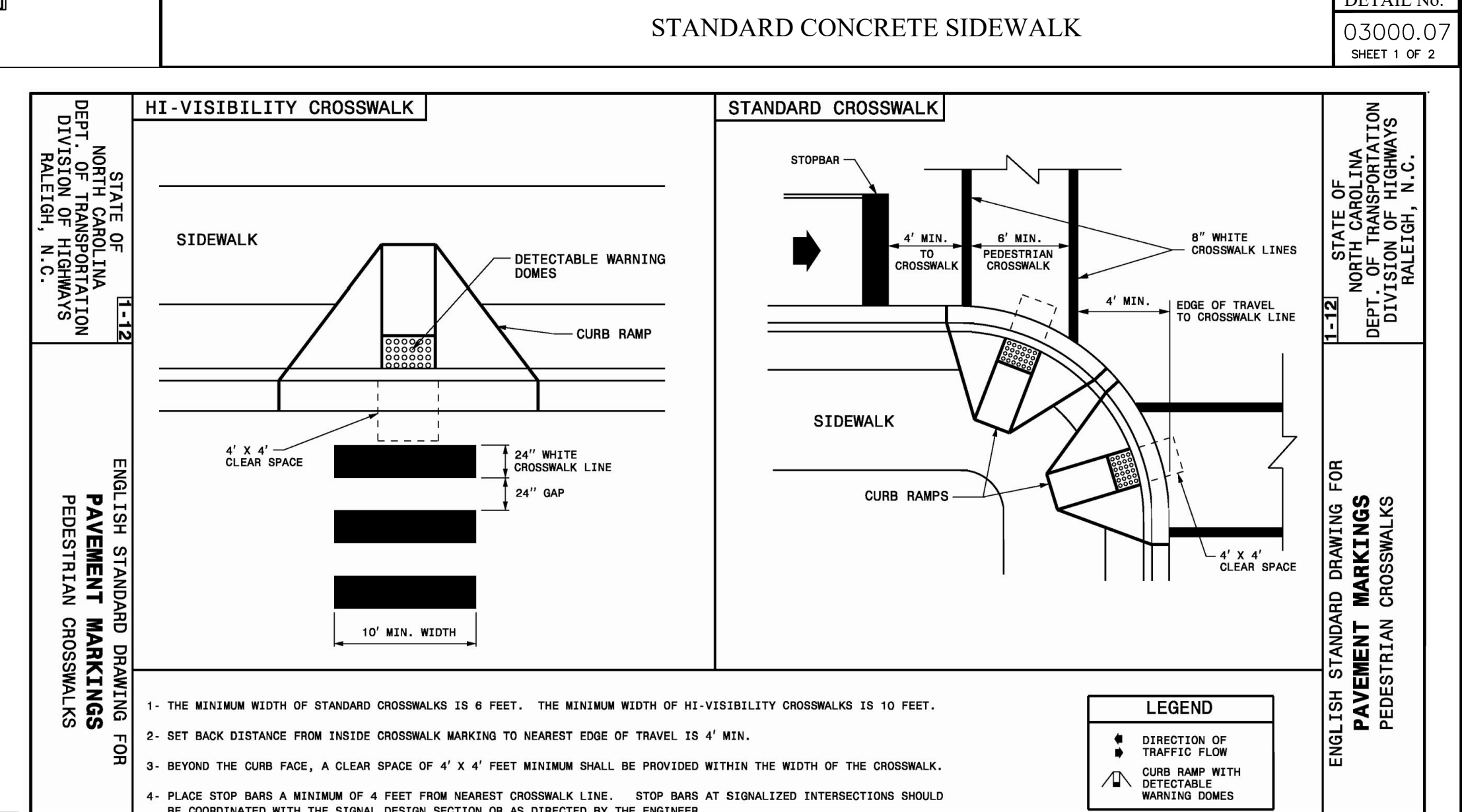
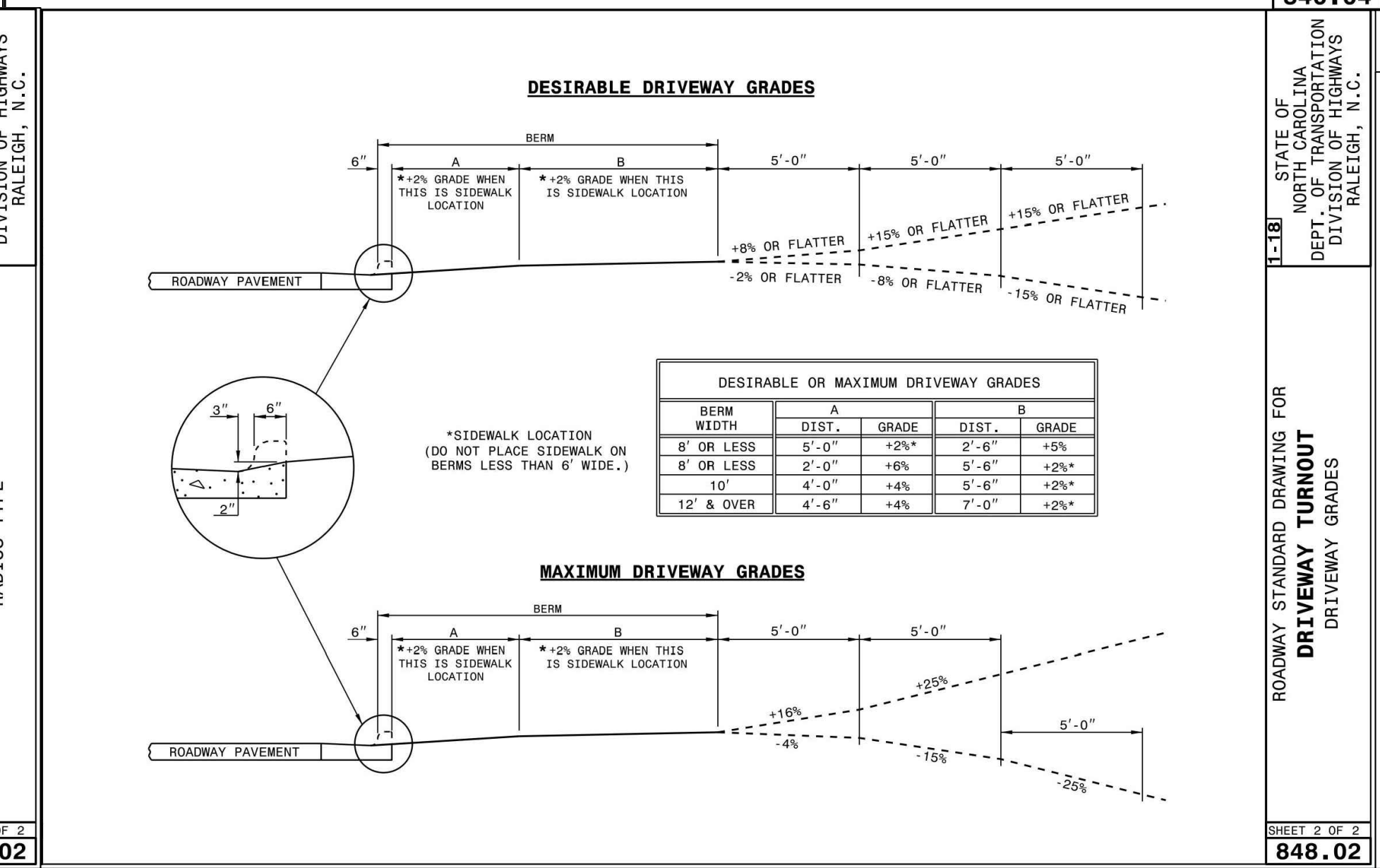
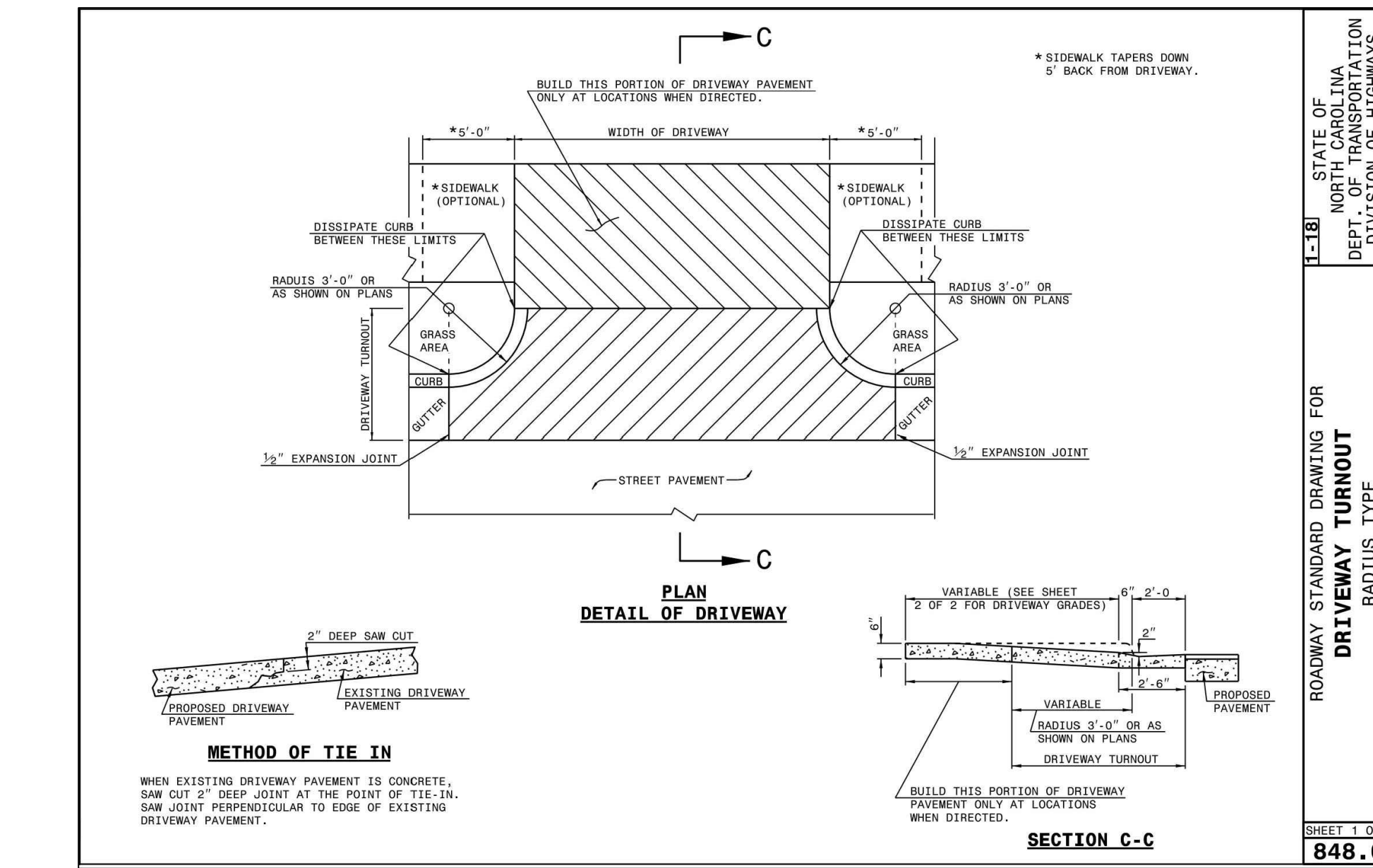
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AMERICAN Engineering
American Engineering Associates - Southeast, P.A.
4020 Westchase Boulevard, Suite 450
Raleigh, NC 27607

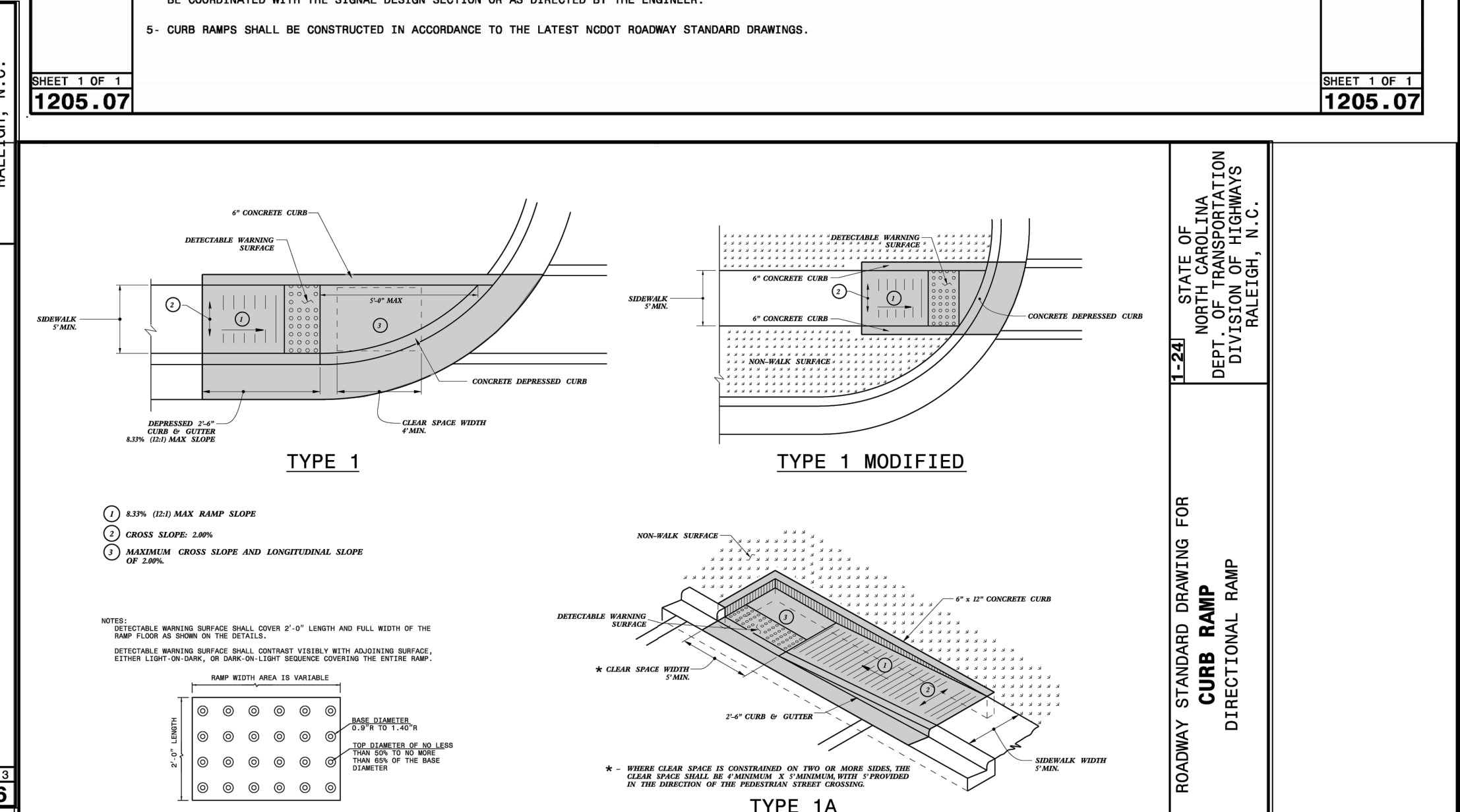
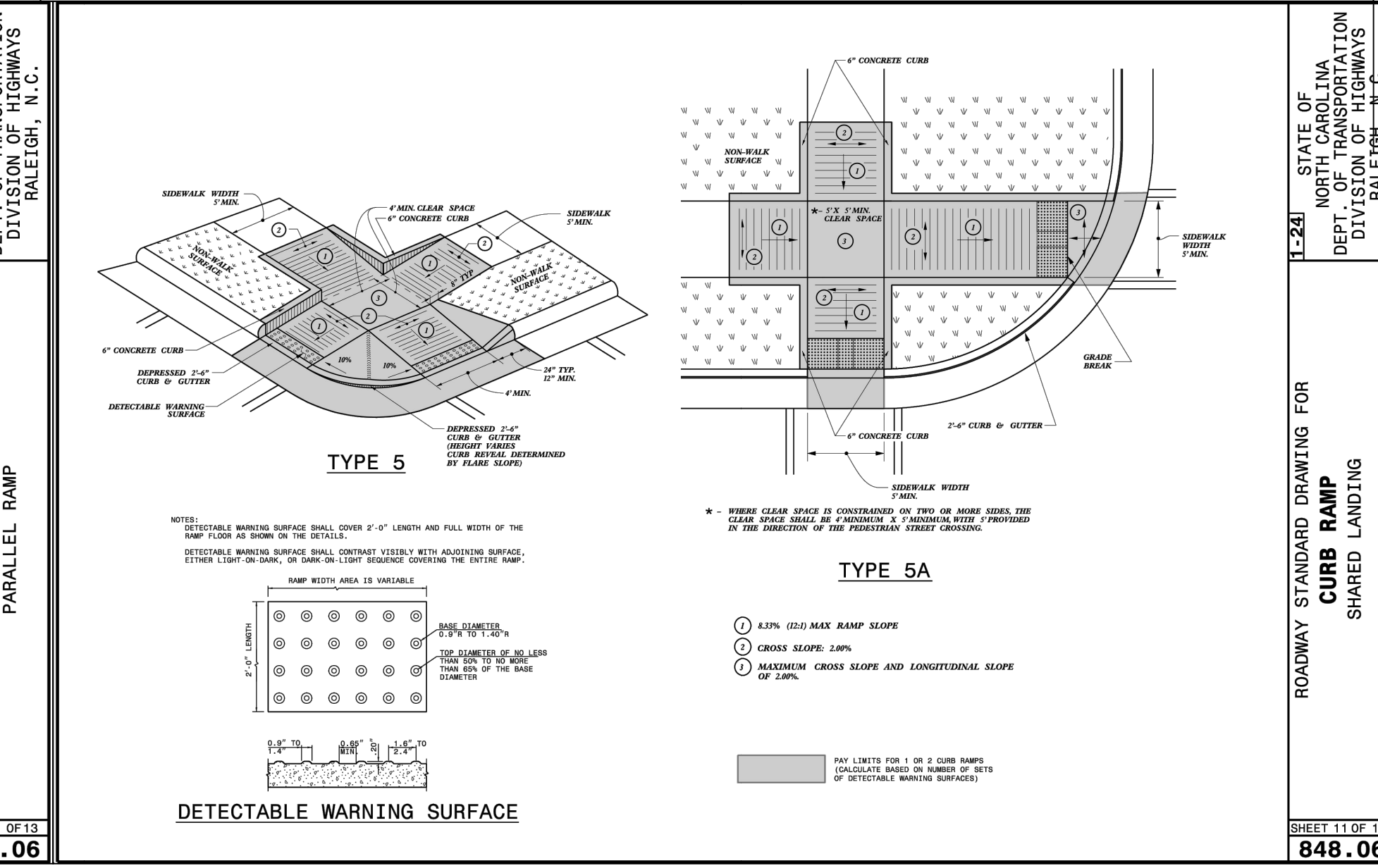
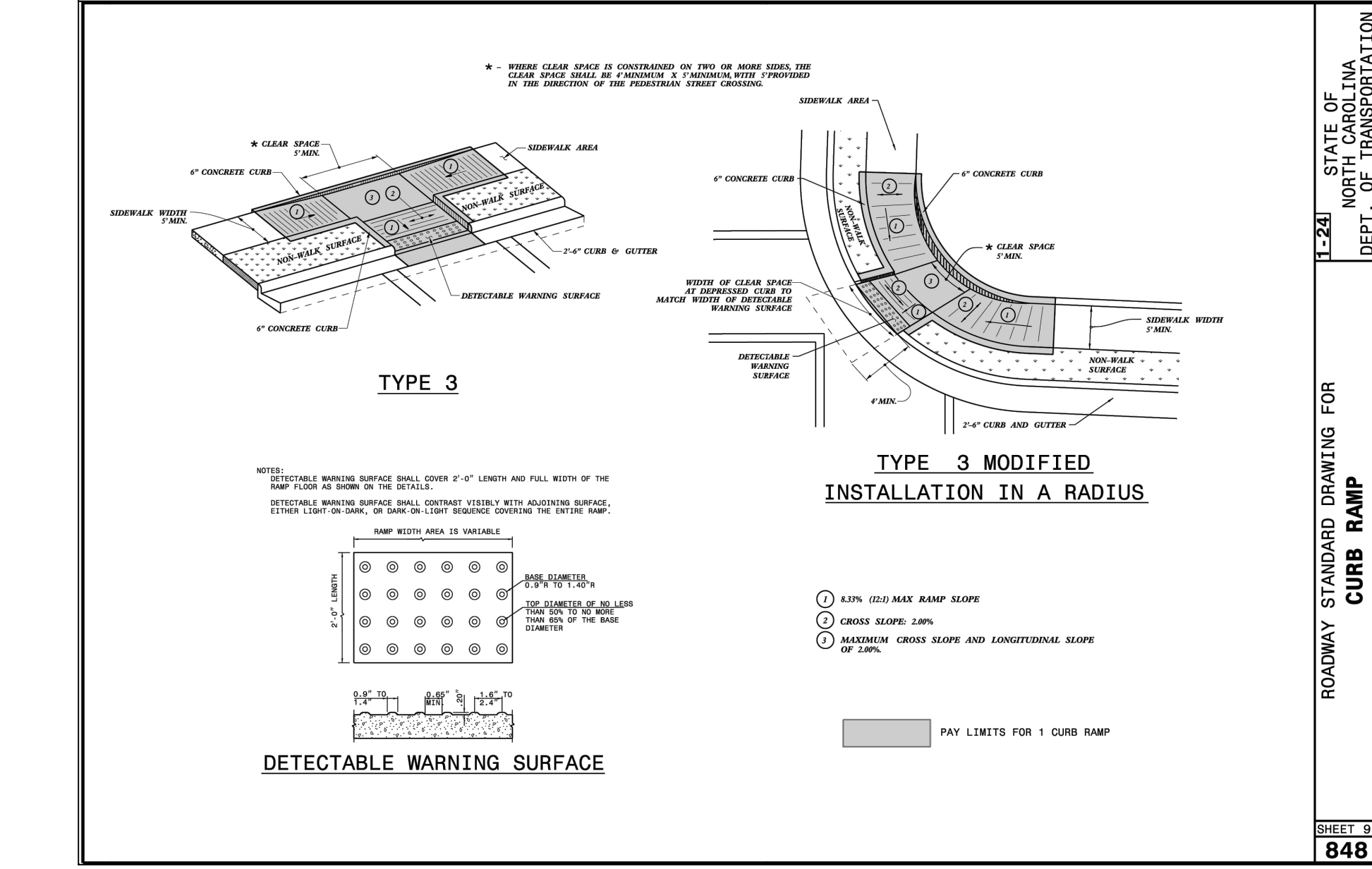
AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
C-3881
REGISTERED PROFESSIONAL ENGINEERS
STATE OF NORTH CAROLINA

PROFESSIONAL SEAL
NORTH CAROLINA
REGISTERED PROFESSIONAL ENGINEER
NO. 38533
W. BOB P. KEEL



PROFESSIONAL SEAL
NORTH CAROLINA
REGISTERED PROFESSIONAL ENGINEER
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W. BOB P. KEEL

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PROFESSIONAL SEAL
NORTH CAROLINA
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NO. 38533
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ROADWAY STANDARD DRAWING FOR DRIVEWAY TURNOUT RADIUS TURNOUT
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

SHEET 1 OF 2
848.02

ROADWAY STANDARD DRAWING FOR DRIVEWAY TURNOUT DRIVEWAY GRADES
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

SHEET 2 OF 2
848.02

ROADWAY STANDARD DRAWING FOR CONCRETE OPEN THROAT CATCH BASIN 12" THRU 48" PIPE
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

SHEET 2 OF 2
840.04

ROADWAY STANDARD DRAWING FOR DRIVEWAY TURNOUT DRIVEWAY GRADES
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

SHEET 2 OF 2
848.02

ROADWAY STANDARD DRAWING FOR DRIVEWAY TURNOUT RADIUS TURNOUT
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

SHEET 1 OF 2
848.02

ROADWAY STANDARD DRAWING FOR DRIVEWAY TURNOUT DRIVEWAY GRADES
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

SHEET 2 OF 2
848.02

ROADWAY STANDARD DRAWING FOR CONCRETE OPEN THROAT CATCH BASIN 12" THRU 48" PIPE
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

SHEET 2 OF 2
840.04

ROADWAY STANDARD DRAWING FOR DRIVEWAY TURNOUT DRIVEWAY GRADES
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

SHEET 2 OF 2
848.02

THE PRESERVE AT MOODY FARM
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 12/02/2024

SHEET TITLE:
SITE DETAILS

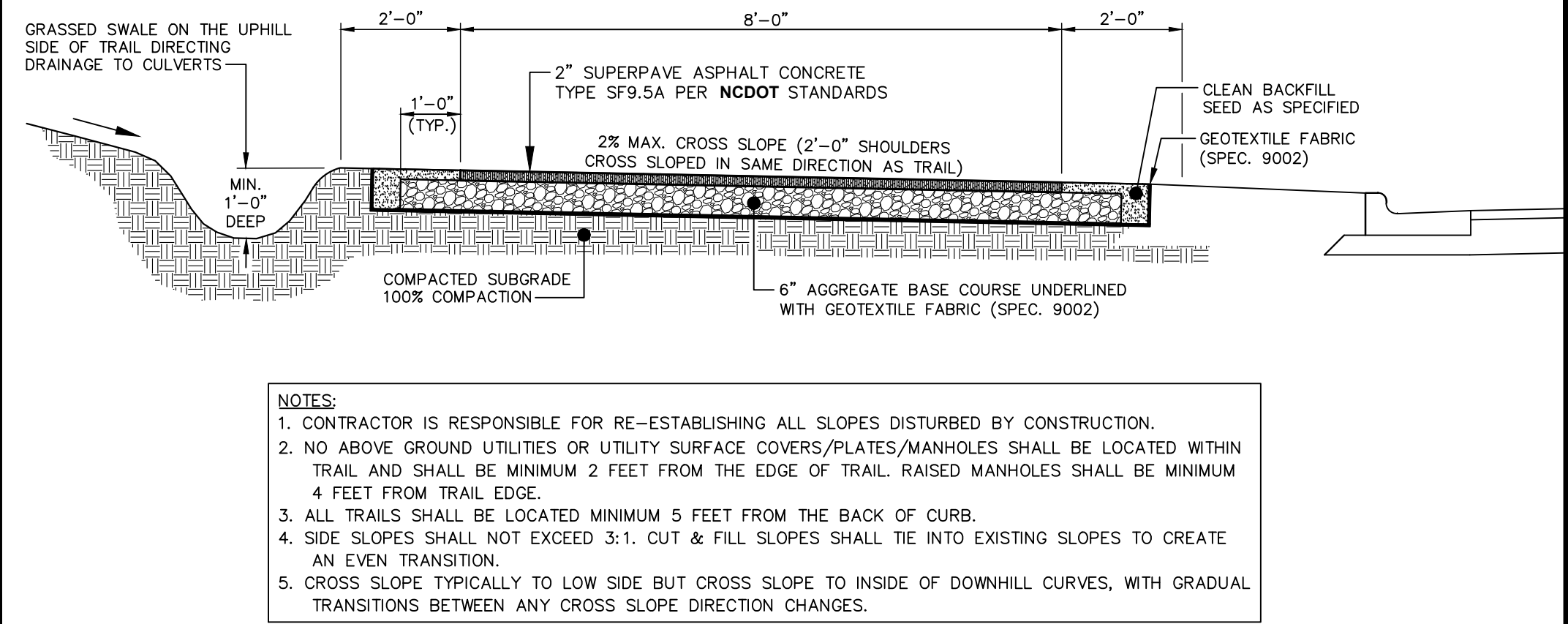
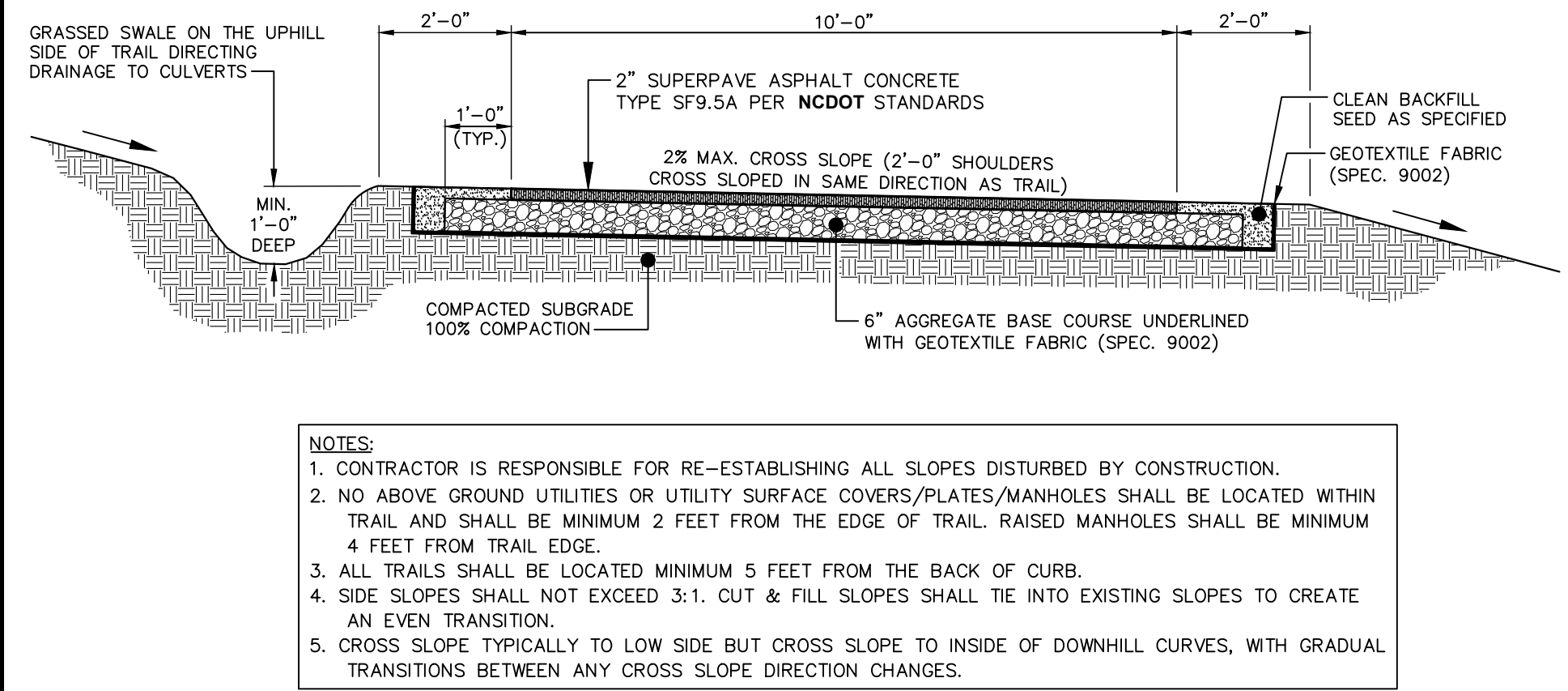
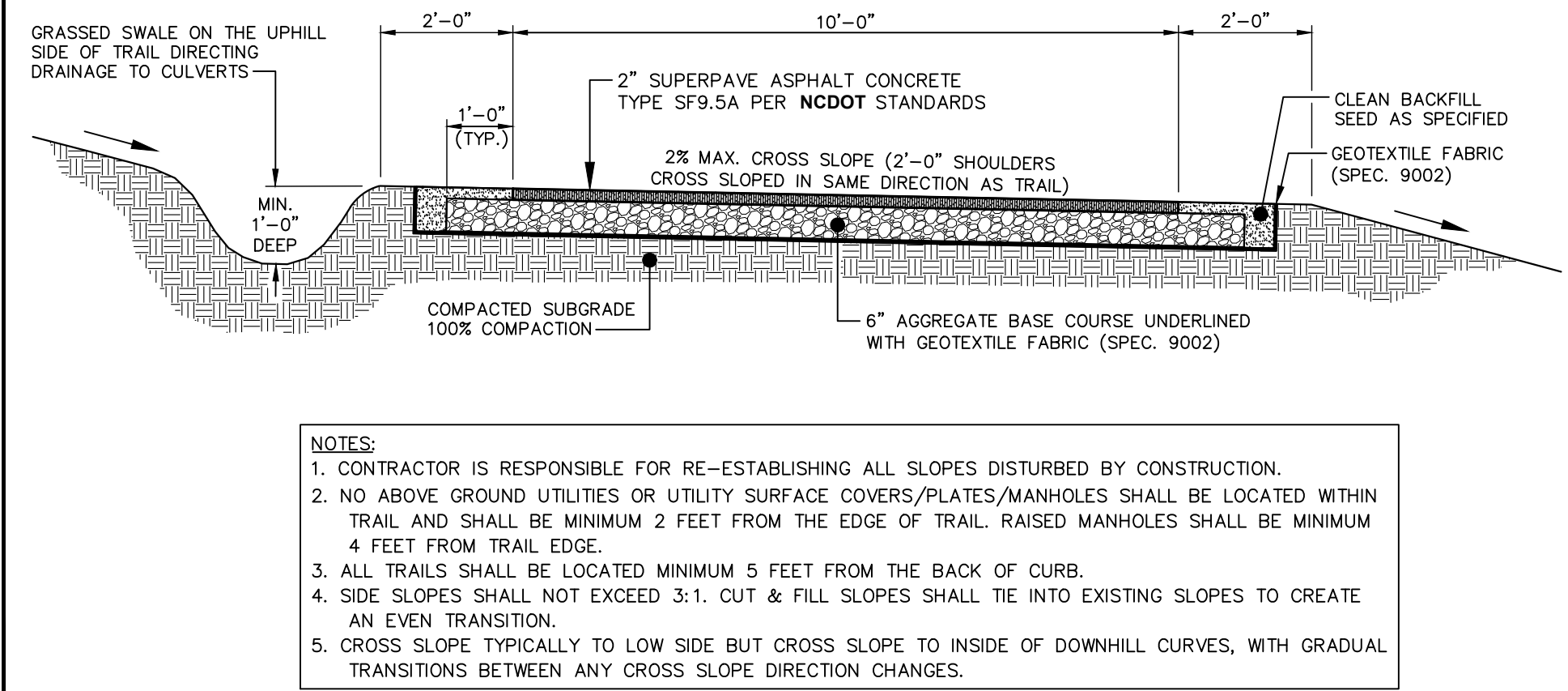
SHEET NO.:
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City of Raleigh Development Approval _____
Raleigh Water Review Officer

North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm

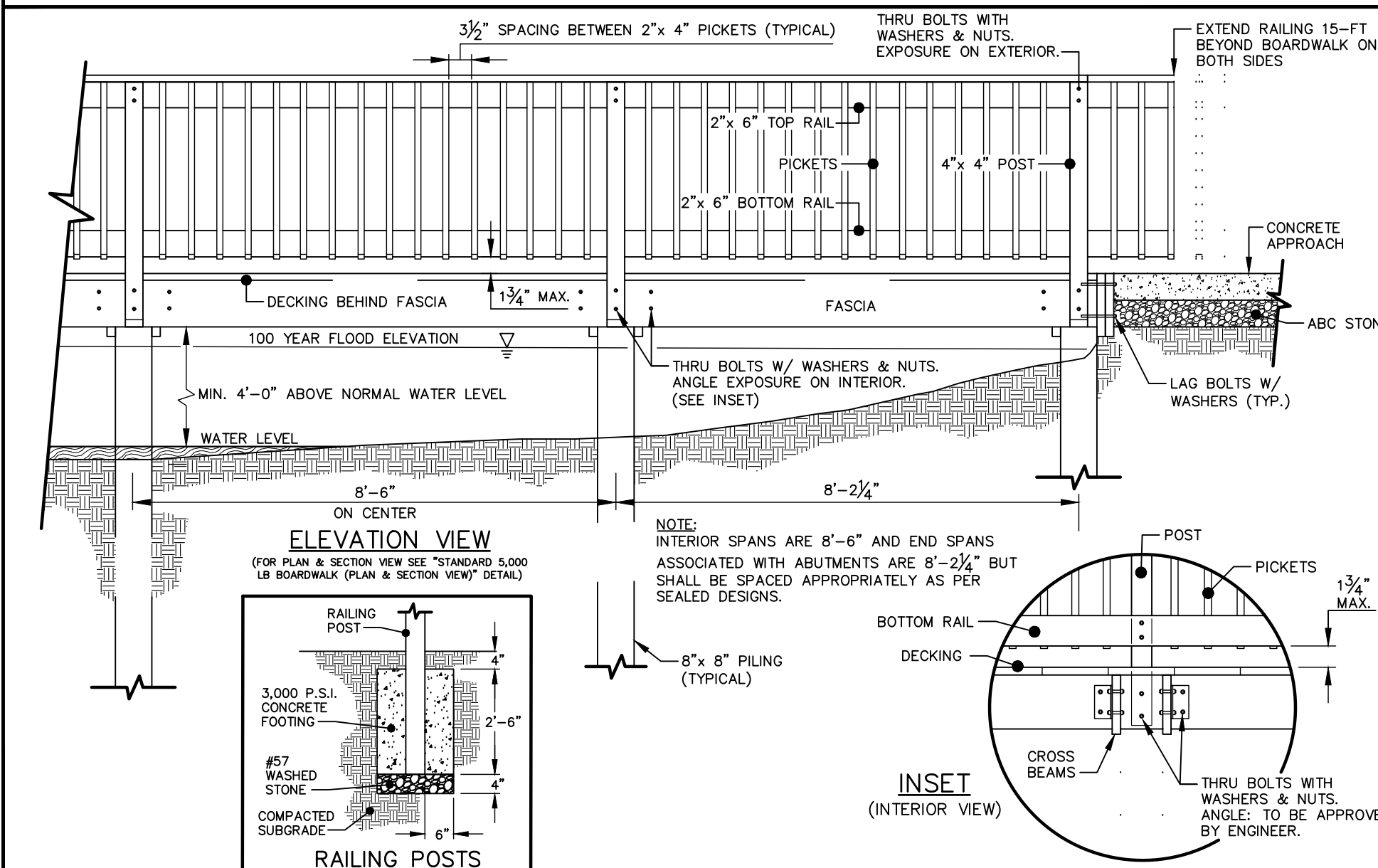
*** 3 Days Before Digging ***



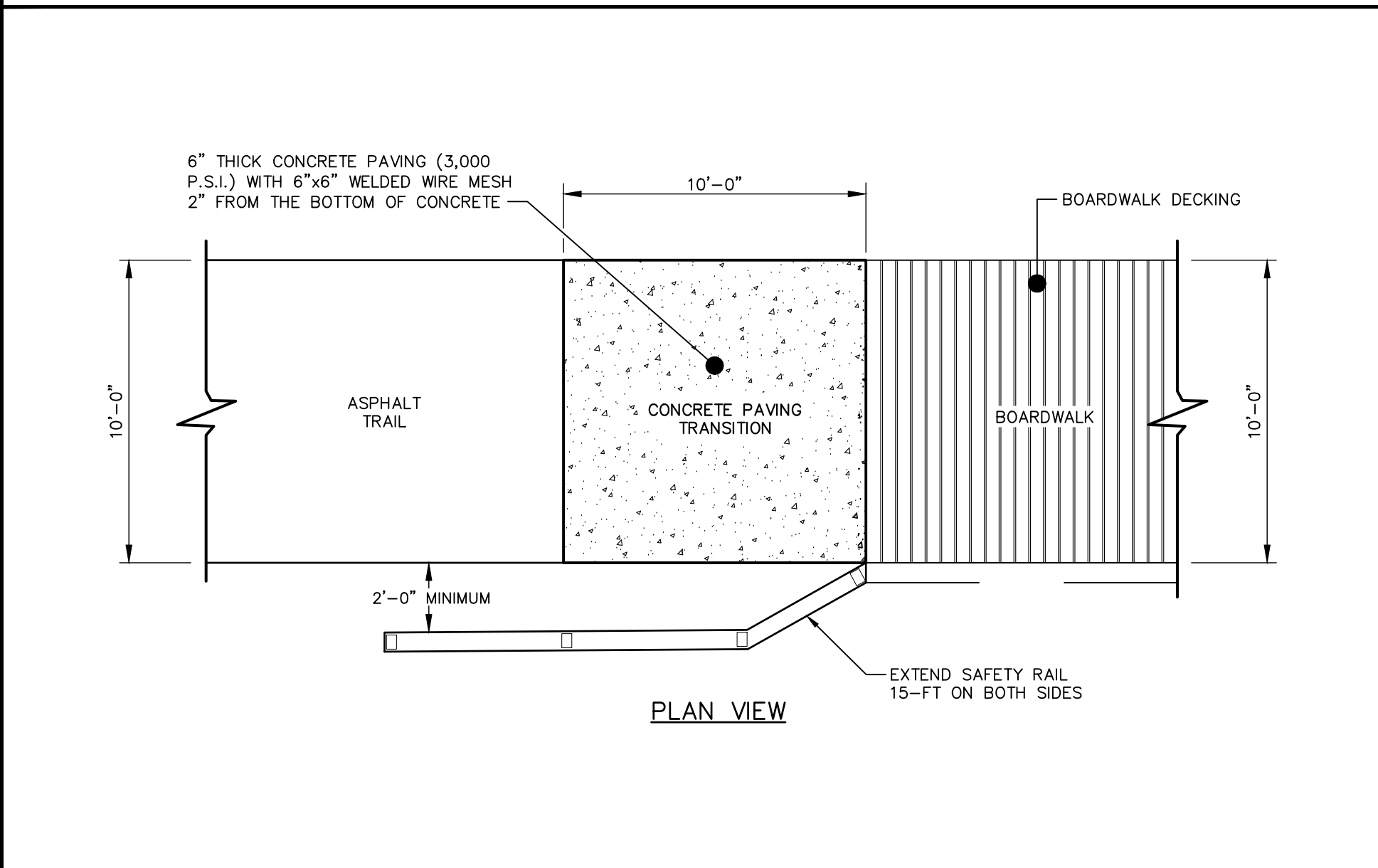
STANDARD 10-FT/STREET-SIDE TRAIL ASPHALT GREENWAY TRAIL

STANDARD 10-FT GREENWAY TRAIL

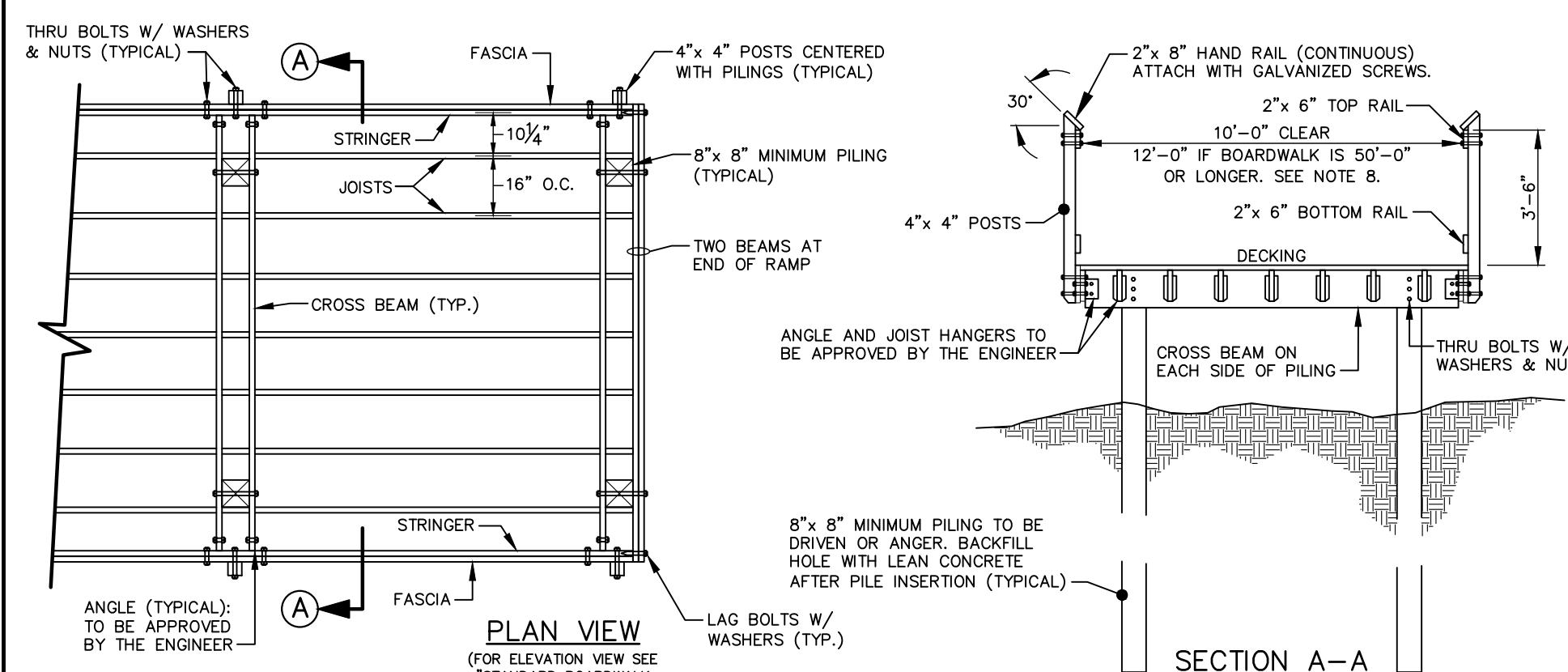
STANDARD 8-FT ROADWAY TRAIL



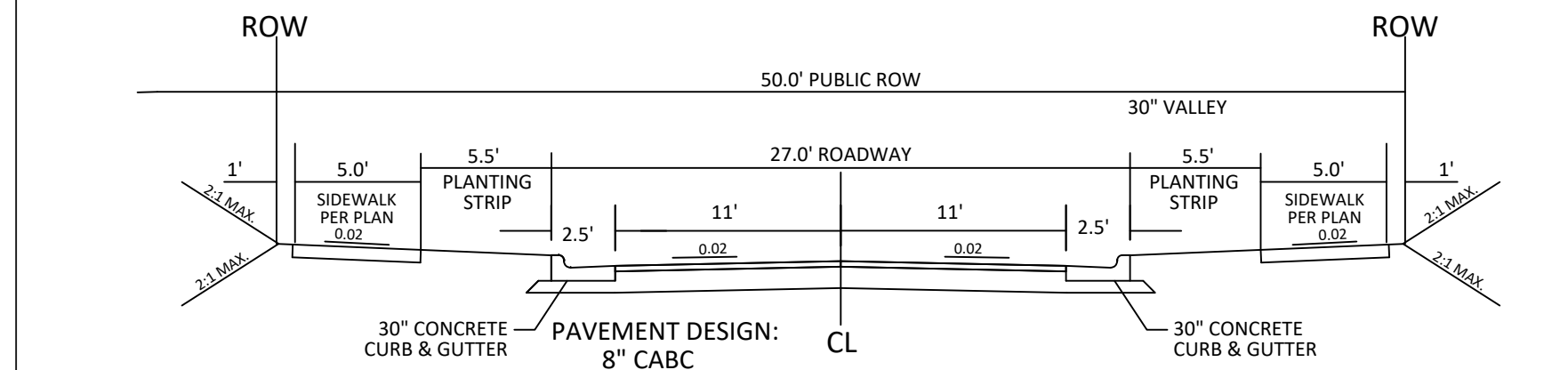
STANDARD BOARDWALK (ELEVATION VIEW)



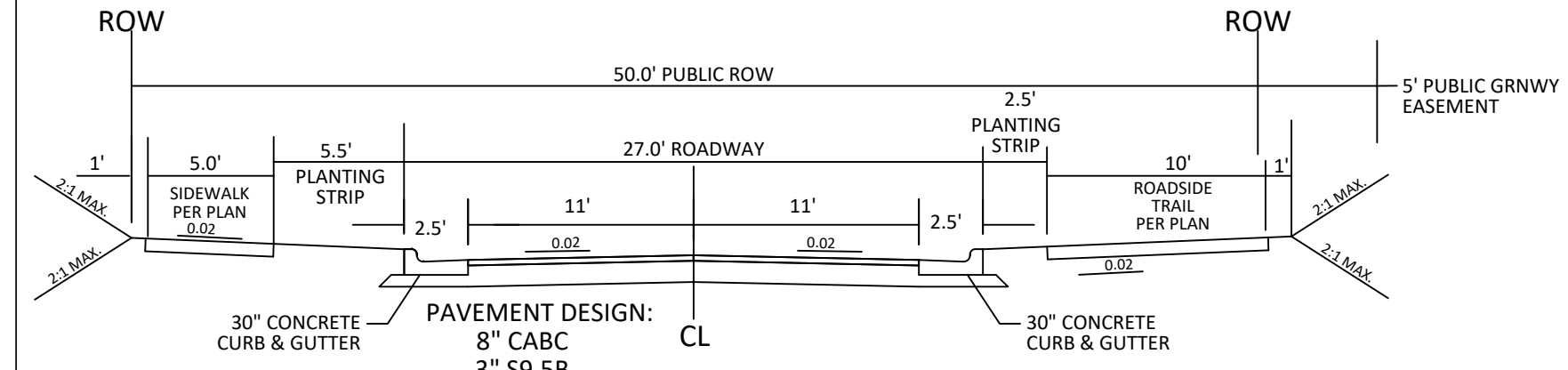
STANDARD 5,000 LB BOARDWALK APPROACH



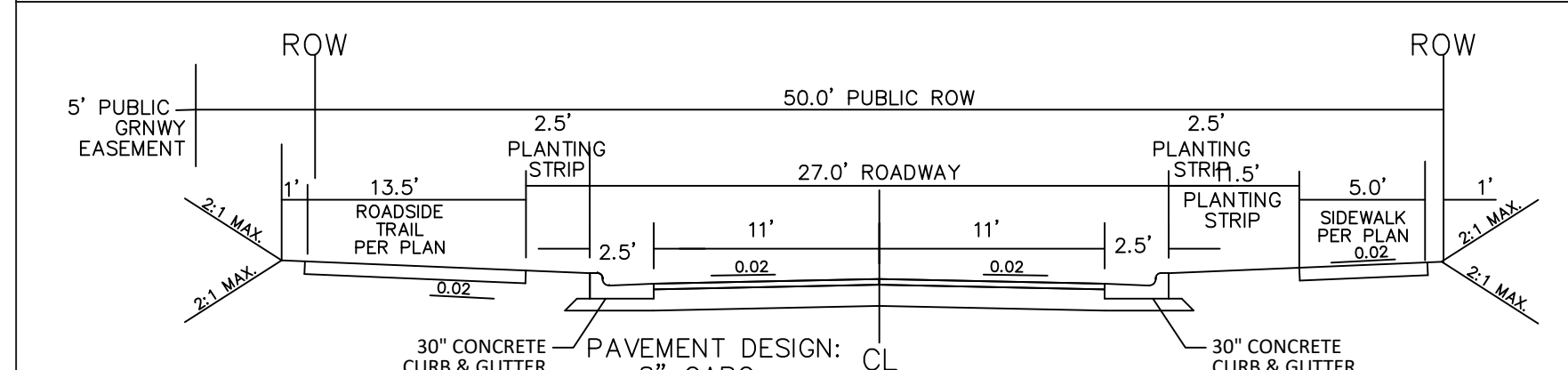
STANDARD 5,000 LB BOARDWALK (PLAN & SECTION VIEW)



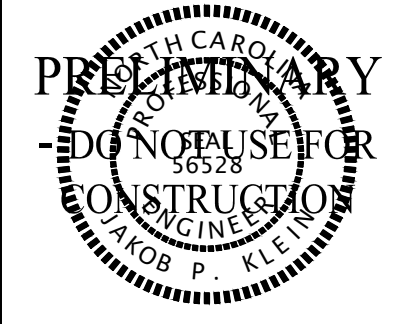
27' B-B ON A 50' R/W TYPICAL SECTION



27' B-B ON A 50' R/W TYPICAL SECTION



27' B-B ON A 50' R/W TYPICAL SECTION



NO.	DATE	REVISION

STIPULATION FOR REUSE
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THE PRESERVE AT MOODY FARM
 ROLESVILLE ROAD
 WAKE COUNTY, NC

JOB NUMBER: 21-002
 CHECKED BY: JK
 DRAWN BY: RC & SM
 DATE: 12/02/2024

SHEET TITLE:
SITE DETAILS

SHEET NO.:
CD16

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION
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 Raleigh Water Review Officer



2:\Jobs\21_002\Roadway\Development\Task\12102024\Drawn\Workshop\Design\Construction\Set\CD16_Site_Details.dwg Project Details.dwg Date: 12/02/2024

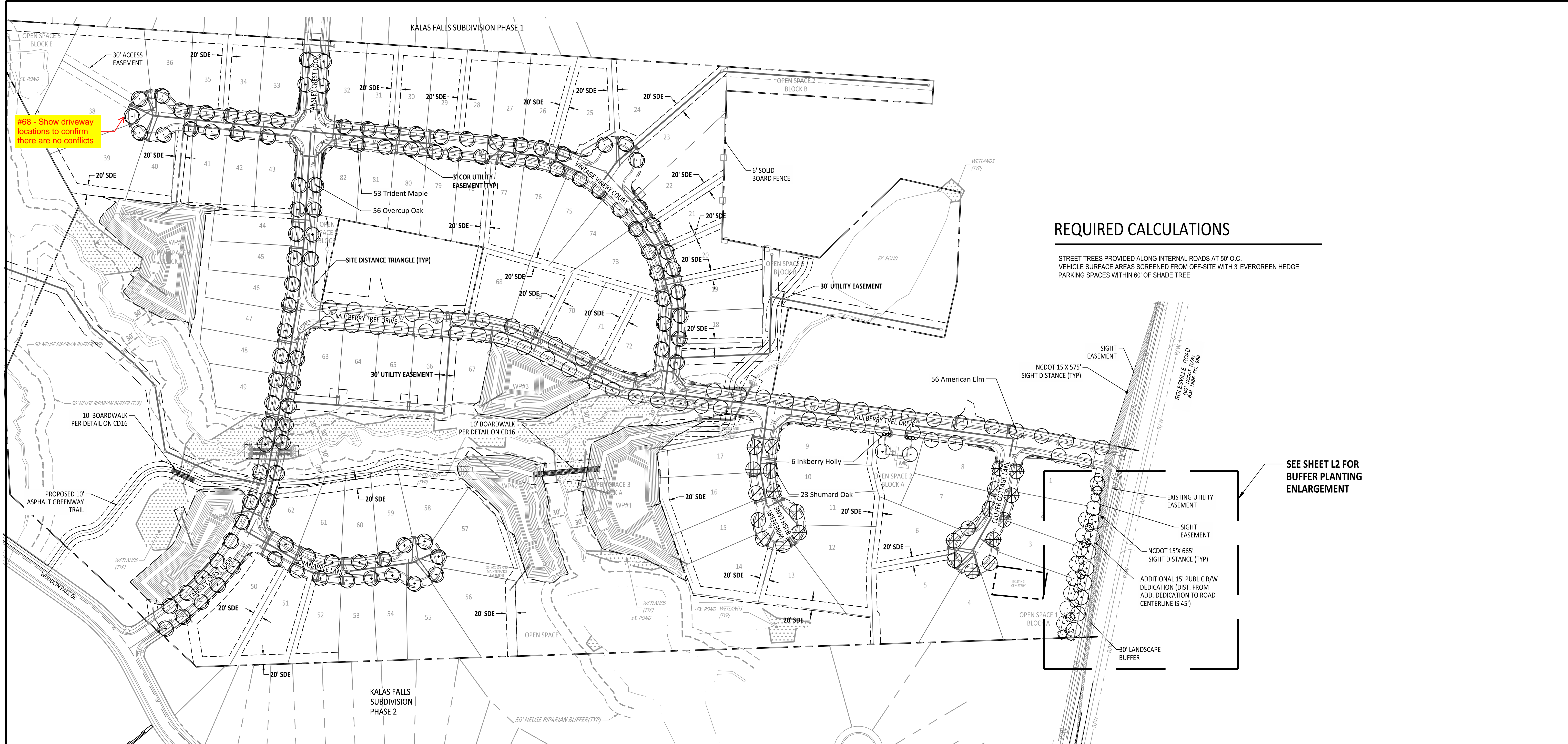


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**THE PRESERVE
AT
MOODY FARM**
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 12/02/2024
SHEET TITLE:
LANDSCAPE PLAN
SHEET NO.:
L1



#68 - Show driveway locations to confirm there are no conflicts

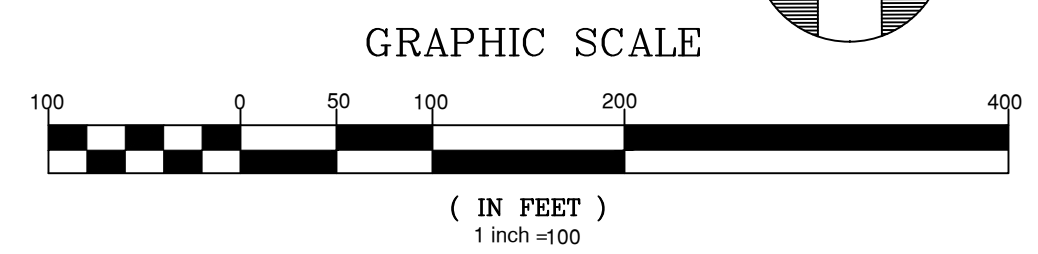
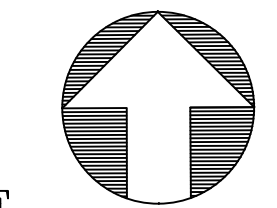
REQUIRED CALCULATIONS

STREET TREES PROVIDED ALONG INTERNAL ROADS AT 50' O.C.
VEHICLE SURFACE AREAS SCREENED FROM OFF-SITE WITH 3' EVERGREEN HEDGE
PARKING SPACES WITHIN 60' OF SHADE TREE

SEE SHEET L2 FOR BUFFER PLANTING ENLARGEMENT

PLANT SCHEDULE

KEY	QUAN.	BOTANICAL NAME	COMMON NAME	SIZE	CONT.	NOTES
TREES						
	4	Ginkgo biloba 'Goldspire'	Goldspire Ginkgo	2.5" Cal., 8' Ht.	B & B	Large mature tree
	4	Juniperus virginiana	Eastern Red Cedar	1.5" Cal., 6' Ht.	B & B	Evergreen tree
	4	Nyssa sylvatica 'Green Gable'	Green Gable Blackgum	1.5" Cal., 6' Ht.	B & B	Small mature tree
	23	Quercus shumardii	Shumard Oak	2.5" Cal., 8' Ht.	B & B	Large mature tree
	56	Quercus lyrata	Overcup Oak	2.5" Cal., 8' Ht.	B & B	Large mature tree
	8	Thuja occidentalis 'Emerald Green'	Emerald Green Arborvitae	1.5" Cal., 6' Ht.	B & B	Evergreen tree
	66	Ulmus americana	American Elm	2.5" Cal., 8' Ht.	B & B	Large mature tree
	53	Acer buergerianum	Trident Maple	2.5" Cal., 8' Ht.	B & B	Large mature tree
SHRUBS						
	6	Ilex glabra	Inkberry Holly	#3 Gallon	Cont.	Evergreen shrub



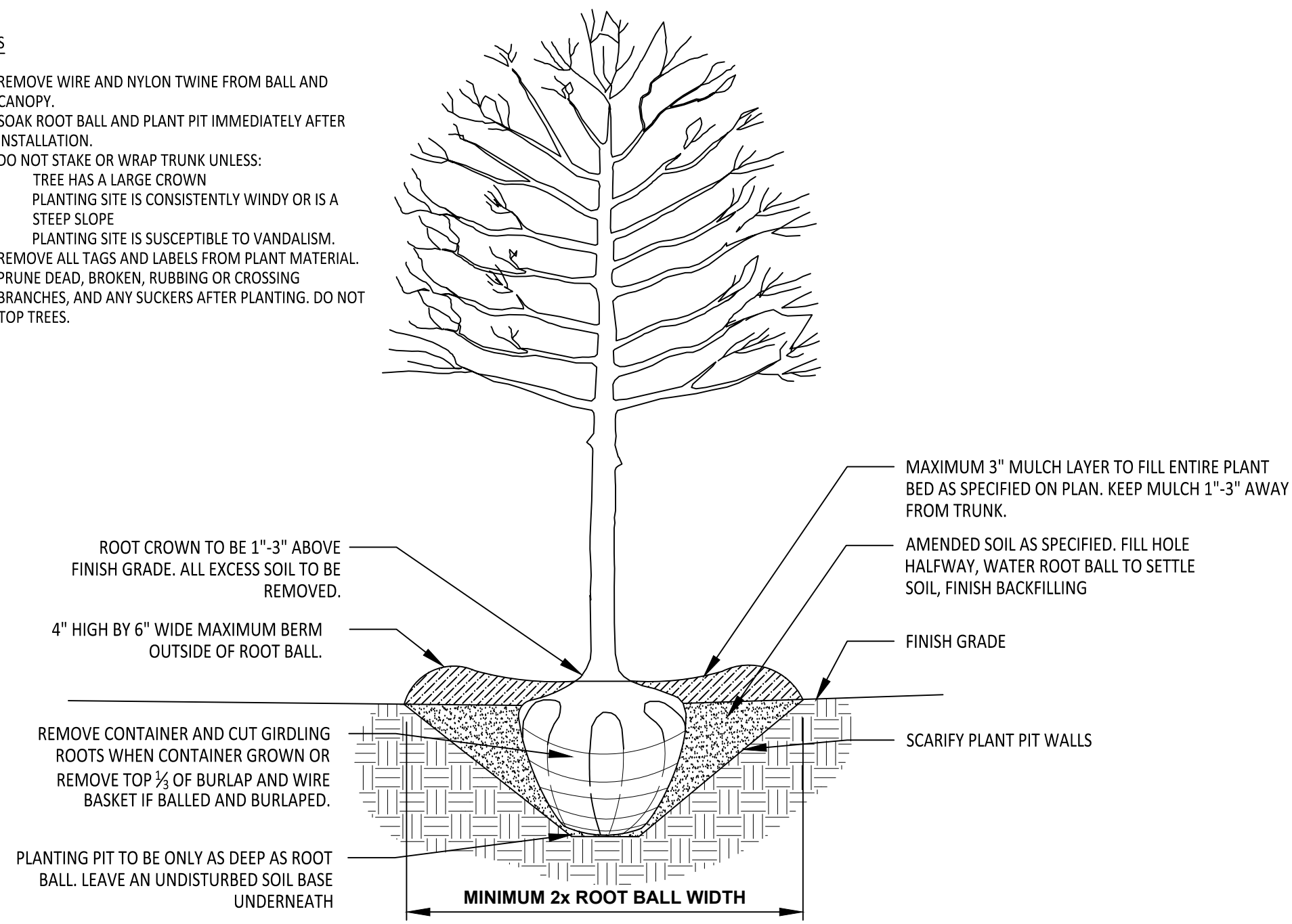
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PLANT DETAILS

NOTES

- REMOVE WIRE AND NYLON TWINE FROM BALL AND CANOPY.
- SOAK ROOT BALL AND PLANT PIT IMMEDIATELY AFTER INSTALLATION.
- DO NOT STAKE OR WRAP TRUNK UNLESS:
 - TREE HAS A LARGE CROWN
 - PLANTING SITE IS CONSISTENTLY WINDY OR IS A STEEP SLOPE
 - PLANTING SITE IS SUSCEPTIBLE TO VANDALISM.
- REMOVE ALL TAGS AND LABELS FROM PLANT MATERIAL.
- PRUNE DEAD, BROKEN, RUBBING OR CROSSING BRANCHES, AND ANY SUCKERS AFTER PLANTING. DO NOT TOP TREES.



ALL TREES SHALL MEET AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1-2004)
 FOR EXAMPLE:

CALIPER	HEIGHT (RANGE)	MAX. HEIGHT	MIN. ROOT BALL DIA.	MIN. ROOT BALL DEPTH
2"	12'-14'	16'	24"	16"
3"	14'-16'	18'	32"	21"

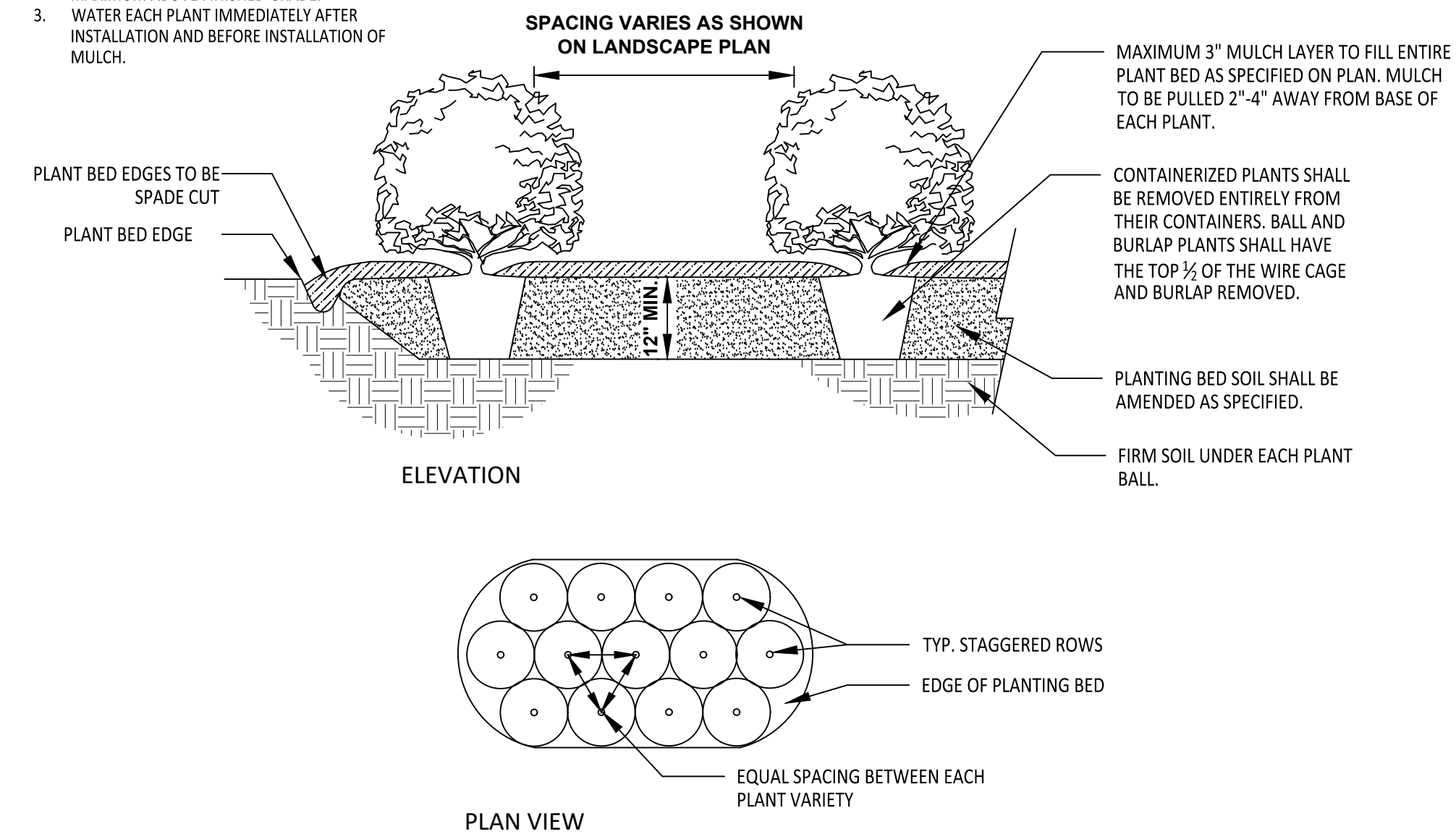
TYPICAL TREE PLANTING

(FOR SINGLE AND MULTI-STEM TREES)

NOT TO SCALE

NOTES

- SCARIFY ROOT MASS OF CONTAINERIZED PLANTS.
- PLANT ROOT BALL SHOULD BE INSTALLED 1"-3" MAXIMUM ABOVE FINISHED GRADE.
- WATER EACH PLANT IMMEDIATELY AFTER INSTALLATION AND BEFORE INSTALLATION OF MULCH.



TYPICAL SHRUB PLANTING

NOT TO SCALE

PLANT NOTES

PLANT INSTALLATION & MAINTENANCE NOTES:

- ALL LANDSCAPING SHALL BE OF NURSERY STOCK QUALITY AND SHALL BE INSTALLED TO ACCEPTED NC LANDSCAPE CONTRACTOR STANDARDS.
- ALL LANDSCAPING SHALL BE ADAPTABLE TO CLIMATIC CONDITIONS OF THE AREA.
- LARGE TREES SHOULD NOT BE PLANTED WITHIN EASEMENTS AND A MINIMUM OF 6' FROM UTILITY LINES, UNLESS OTHERWISE SPECIFIED BY REVIEWING AGENCY. SHRUBS MAY BE PLANTED IN EASEMENTS, BUT A MINIMUM OF 3' FROM UTILITY LINES, UNLESS OTHERWISE SPECIFIED BY REVIEWING AGENCY.
- ALL LANDSCAPING SHALL BE MAINTAINED IN GOOD CONDITION.
- ALL LANDSCAPING SHALL AT ALL TIMES PRESENT A HEALTHY, NEAT, CLEAN, ORDERLY, DISEASE-FREE AND PEST-FREE APPEARANCE.
- ALL LANDSCAPING SOIL AND FILL SHALL BE FREE FROM WEEDS, REFUSE, AND DEBRIS AT ALL TIMES.
- EXCESS SOIL SHALL BE DISPOSED OF IN A LEGAL MANNER.
- ANY DEAD PLANT MATERIAL OR MATERIAL THAT FAILS TO SHOW HEALTHY GROWTH MUST BE REMOVED WITHIN 30 DAYS.
- REPLACEMENT OF REMOVED PLANT MATERIAL MUST TAKE PLACE WITHIN 90 DAYS OF REMOVAL OR NOTIFICATION BY THE TOWN, WHICHEVER OCCURS FIRST.
- ANY REPLACEMENT PLANT MATERIAL MUST MEET THE SIZE AND OTHER CHARACTERISTICS OF NEWLY PLANTED MATERIAL.
- IF USING STAKES AND GUYS SUCH SUPPORTS SHALL BE DESIGNED SO AS TO PROTECT TREES AND SHRUBS FROM INJURY. TREES AND SHRUBS SHALL BE FASTENED TO THE SUPPORT WITH AN ACCEPTABLE COMMERCIAL TREE TIE OF PLASTIC OR HOSE-COVERED WIRE. AFTER THE WARRANTY PERIOD HAS ENDED, STAKES AND GUYS SHALL BE REMOVED.
- CONTRACTOR IS RESPONSIBLE TO CONTACT MISS UTILITIES (811) 48 HOURS PRIOR TO COMMENCEMENT OF WORK. CONTACT LANDSCAPE ARCHITECT IF FIELD CONFLICTS/DISCREPANCIES ARISE.
- CONTRACTOR RESPONSIBLE TO VERIFY PLANT COUNTS. PLANTING PLAN SHALL GOVERN IN THE CASE OF A CONFLICT.
- ALL PLANTS SHALL MEET OR EXCEED STANDARDS AS DETERMINED BY THE AMERICAN STANDARD OF NURSERY STOCK.
- CONTRACTOR SHALL WARRANT ALL PLANTS FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE.
- WHEN POSSIBLE, PLANTING SHALL BE INSTALLED BETWEEN SEPTEMBER 1 - JUNE 30TH AND IN FAVORABLE WEATHER CONDITIONS. WHEN PLANTING MUST BE PERFORMED OUTSIDE OF SPECIFIED DATES, PLANTS MUST BE WATERED ON A REGULAR BASIS TO ENSURE VIABILITY.
- PLANT VARIETIES, SIZES AND LAYOUT SHALL CONFORM ACCURATELY TO THE LANDSCAPE PLAN. CONTACT LANDSCAPE ARCHITECT FOR FIELD CONFLICTS.
- DISTURBED AREAS SHALL BE SEEDED ACCORDING TO THE NOTES FOUND ON THIS PAGE.
- PLANT SUBSTITUTIONS SHALL BE BROUGHT TO THE ATTENTION OF AND APPROVED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- MULCH USED ON-SITE SHALL BE OF A NON-DYED, NATURAL HARDWOOD VARIETY TO BE INSTALLED AT A MAXIMUM DEPTH OF 3", MINIMUM DEPTH OF 2".

TOPSOIL / PLANTING MIX MINIMUM REQUIREMENTS:

- TOPSOIL/PLANTING MIX SHOULD BE NATURAL, FERTILE, AGRICULTURAL SOIL CAPABLE OF SUSTAINING VIGOROUS PLANT GROWTH. IT SHOULD BE UNIFORM COMPOSITION THROUGHOUT, WITH ADMIXTURE OF SUBSOIL. IT SHOULD BE FREE OF STONES, LUMPS, LIVE PLANTS AND THEIR ROOTS, STICKS AND OTHER EXTRANEIOUS MATTER. TOPSOIL SHOULD NOT BE USED WHILE IN A FROZEN OR MUDDY CONDITION.
 - TOPSOIL/PLANTING MIX SHALL HAVE AN ACIDITY RANGE OF PH 5.5-7.0 AND THE FOLLOWING COMPOSITION:

CLAY (RED CLAY, WELL PULVERIZED)	MINIMUM 10%; MAXIMUM 35%
COMPOST*/ORGANIC	MINIMUM 5%; MAXIMUM 10%
SILT	MINIMUM 30%; MAXIMUM 50%
COARSE SAND (FREE OF ROCKS, 0.5 TO 1.0 MM F)	MINIMUM 30%; MAXIMUM 45%
 - ORGANIC MATERIAL SUCH AS SAWDUST OR LEAF MOLD THAT HAS COMPLETED THE DECOMPOSITION PROCESS
 - RECOMMENDATIONS:

CALCIUM	55 - 80%
MAGNESIUM	10 - 30%
POTASSIUM	5 - 8%
- ALL PLANTING AREAS SHOULD BE TESTED FOR PROPER DRAINAGE. DRAINAGE SHOULD BE CORRECTED AS NECESSARY TO INSURE PROPER TREE GROWTH AND SURVIVAL. THE FOLLOWING LEVEL OF NUTRIENT ELEMENTS IS RECOMMENDED FOR PROPER GROWTH:

SEEDING SCHEDULE FOR LAWNS & SLOPES (MAXIMUM 3:1):

DATE	TYPE	PLANTING RATE
AUG 15 - NOV 1	TALL FESCUE	300 LBS/ACRE
NOV 1 - MAR 1	TALL FESCUE AND ABRUZZI RYE OR ANNUAL RYE	300 LBS/ACRE
MAR 1 - APR 15	TALL FESCUE OR HARD FESCUE	300 LBS/ACRE
MAR 1 - JUL 15	HULLED COMMON BERMUDA GRASS OR HYBRID BERMUDA GRASS OR CENTIPEDE GRASS OR ZOYSIA GRASS OR ST. AUGUSTINE GRASS	200 LBS/ACRE
APR 15 - JUN 30	WEEPING LOVE GRASS OR BAHIA GRASS	25 LBS/ACRE
JUL 1 - AUG 15	TALL FESCUE AND *** BROWNTOP MILLET *** OR SORGHUM-SUDAN HYBRIDS	120 LBS/ACRE 35 LBS/ACRE 30 LBS/ACRE

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THE PRESERVE
 AT
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 WAKE COUNTY, NC

JOB NUMBER: 21-002

CHECKED BY: JK

DRAWN BY: RC & SM

DATE: 12/02/2024

SHEET TITLE:
PLANTING NOTES AND DETAILS

SHEET NO.:
L3

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