



Shelby County Landfill Scale House Building Project

ADDENDUM NO. 4

Date: September 6, 2024

RE: Shelby County Landfill Scale House Building Project

BID DATE AND TIME:

Tuesday, September 10, 2024 at 2:00 p.m.

Location for the bid opening remains the office of the Shelby County Chief Financial Officer, located at 200 West College Street, Room 125, Columbiana, Alabama, 35051

Clarifications:

Q1: What size communications conduit is to be installed for the UGT service entrance from the utility pole to the location of the MDF rack in the building as shown on sheet E7?

A1: 2"

Q2: Does the galvanized steel grating located at the 12" clean-out trench as shown on sheet "SP" need to be ADA accessible?

A2: Yes, the grating needs to be ADA compliant.

Q3: What are the specifications for concrete paving?

A3: See attached updated civil drawings, pages C200 and C250.

SHELBY CO. LANDFILL SCALEHOUSE

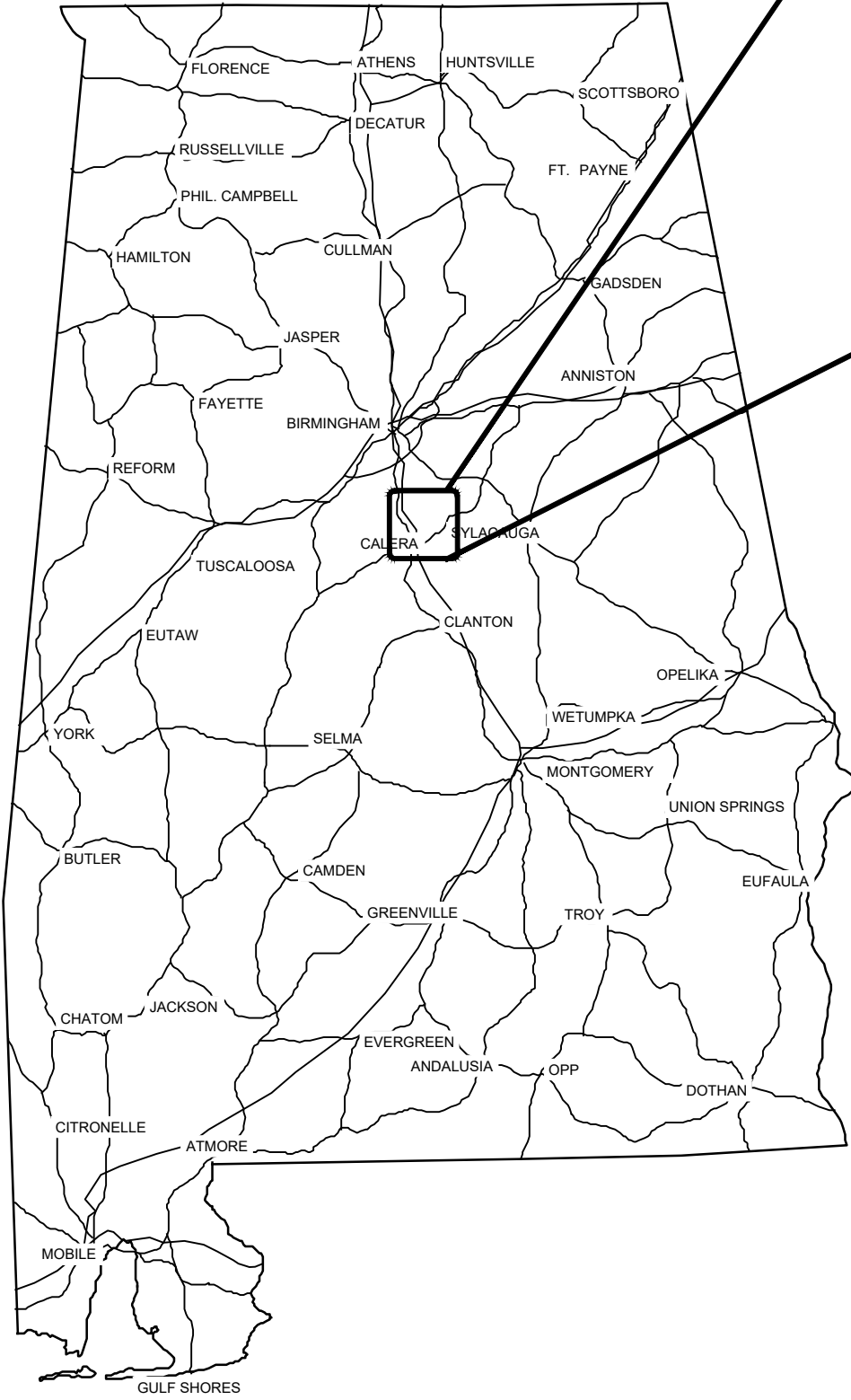
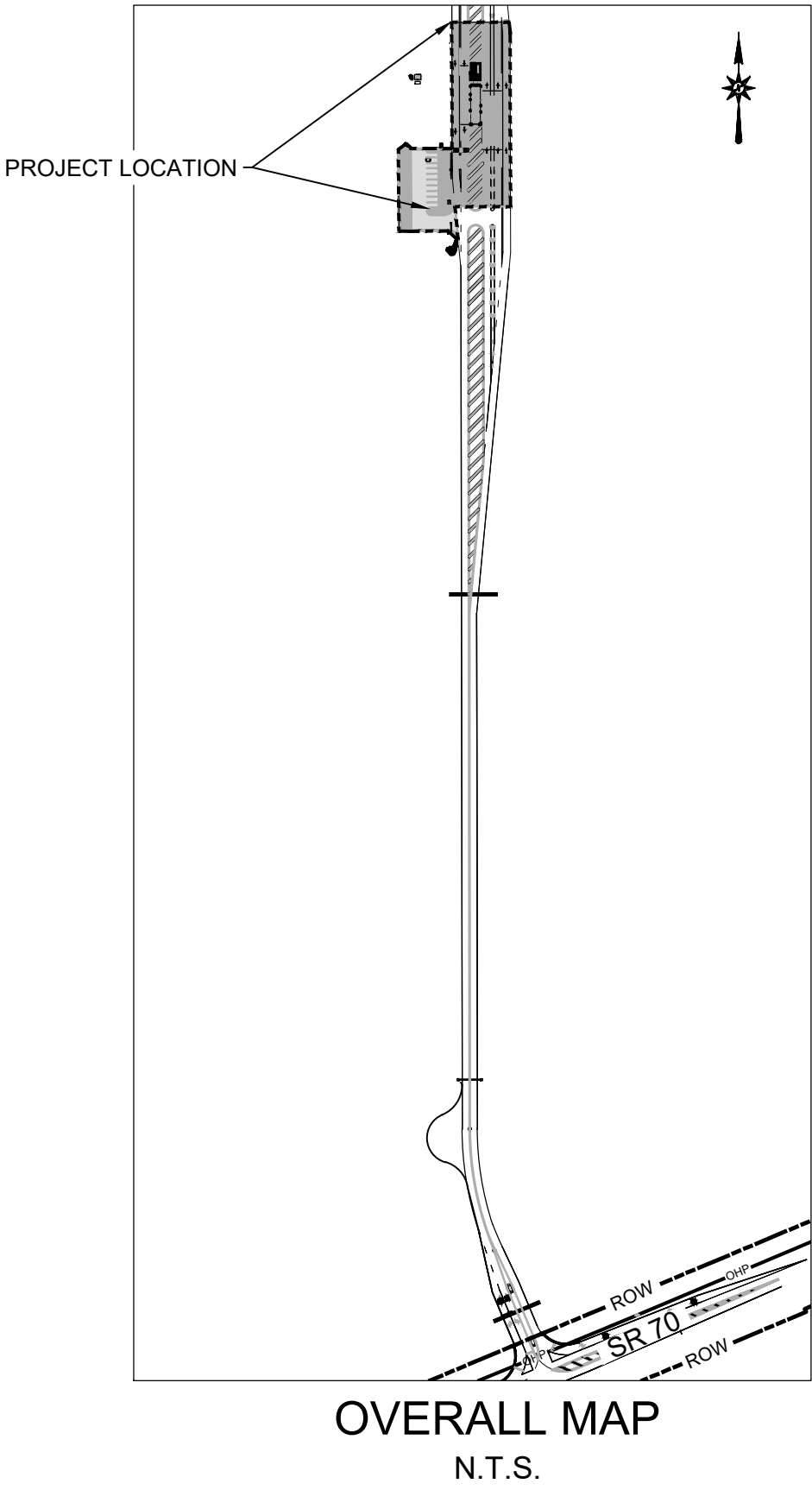
SR 70
COLUMBIANA, AL
GSA PROJECT NO.: 24-0098

PLAN SUBMITTAL HISTORY

SUBMITTAL #	DESCRIPTION	DATE
1	BID SET	7/23/2024
2		
3		
4		

POINTS OF CONTACT

OWNER/DEVELOPER: TREY GAUNTT-CHIEF FACILITIES MANAGEMENT OFFICER SHELBY COUNTY FACILITIES AND GENERAL SERVICES 280 McDOW ROAD COLUMBIANA, AL 35051 (205) 670-6461 TREY@SHELBYAL.COM	CIVIL ENGINEERING CONSULTANT: CAREY DANIEL, PE GONZALEZ-STRENGTH & ASSOCIATES, INC. 1550 WOODS OF RIVERCHASE DRIVE HOOVER, AL 35244 (205) 942-2486 CDANIEL@GONZALEZ-STRENGTH.COM	SURVEYOR: DEREK MEADOWS, PLS GONZALEZ-STRENGTH & ASSOCIATES, INC. 1550 WOODS OF RIVERCHASE DRIVE HOOVER, AL 35244 (205) 942-2486 DMEADOWS@GONZALEZ-STRENGTH.COM	POWER COMPANY: CLAYTON BOWDEN ALABAMA POWER (205) 226-1760 CWBOWDEN@SOUTHERNCO.COM
ARCHITECT: STEPHEN COKER SHELBY COUNTY ARCHITECT LLC 1000 GLEN VIEW RD. BIRMINGHAM, AL 35222 (205) 595-0021 STEVE@COKERARCH.COM	GEOTECHNICAL ENGINEER: BRYAN RITENOUR, P.E. TERRACON CONSULTANTS, INC. 2147 RIVERCHASE OFFICE RD. HOOVER, AL 35244 (205) 942-1289 BRYAN.RITENOUR@TERRACON.COM	STATE DEPARTMENT OF TRANSPORTATION: ANDREW PORTER ALABAMA DEPARTMENT OF TRANSPORTATION 3805 US-31 CALERA, ALABAMA 35040 (205) 668-0173 PORTERA@DOT.STATE.AL.US	SANITARY SEWER COMPANY: CITY OF CALERA SEWER DEPARTMENT 2273 5TH STREET CALERA, AL 35040 (205)668-3880
WATER COMPANY: CITY OF CALERA WATER DEPARTMENT 7901 HIGHWAY 31 CALERA, AL 35040 (205)668-3624	CITY ENGINEERING: BILL HILYER, P.E. CITY OF CALERA 7901 HIGHWAY 31 CALERA, AL 35040 (205)668-3886 BHILYER@CALERA.ORG		



SHEET INDEX MATRIX

SHEET NO.	SHEET TITLE
C000	CIVIL COVER SHEET
C001	GENERAL REQUIREMENTS
C100	SITE DEMOLITION PLAN
C200	SITE LAYOUT PLAN
C201	SITE DIMENSION CONTROL PLAN
C250	SITE SECTIONS & DETAILS
C300	SITE GRADING & DRAINAGE PLAN
C301	SCALE CROSS SECTIONS
C302	SCALE CROSS SECTIONS
C350	DRAINAGE SECTIONS & DETAILS
C400	SITE UTILITY PLAN
C450	UTILITY SECTIONS & DETAILS
C500	CBMPP COVER SHEET & NOTES
C501	GENERAL PERMIT REQUIREMENTS
C502	CBMPP NOTES
C503	CBMPP - PHASE I
C504	CBMPP - PHASE II & PHASE III
C550	CBMPP DETAILS
C551	CBMPP DETAILS

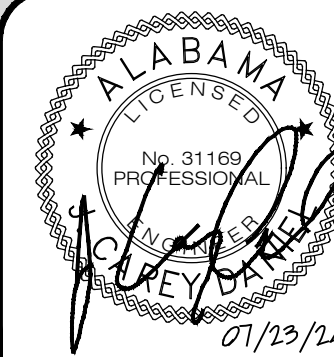
BID SET
PLOT DATE: 07/23/2024
REVISION: 09/06/2024



NO.	REVISIONS	DESCRIPTION	DATE
0	ISSUE FOR BID		7-23-2024
1	ADDED CONCRETE PAVEMENT DETAIL		9-6-2024
2			
3			
4			

CIVIL COVER SHEET
SHELBY CO. LANDFILL SCALEHOUSE
SR 70
COLUMBIANA, AL
SHELBY CO. FACILITIES
COLUMBIANA, AL

GONZALEZ - STRENGTH & ASSOCIATES, INC.
CIVIL ENGINEERING - TRANSPORTATION ENGINEERING - LAND SURVEYING
LAND PLANNING - LANDSCAPE ARCHITECTURE
1550 WOODS OF RIVERCHASE DRIVE SUITE 200
HOOVER, ALABAMA 35244
PHONE: (205) 942-2486
FAX: (205) 942-3033
www.Gonzalez-Strength.com



DWG. NO.
C000 R 0
PROJECT
24-0098

GENERAL NOTES:

1. LIDAR TOPOGRAPHY PROVIDED BY SHELBY COUNTY. IF CONTRACTOR DOES NOT ACCEPT THE INFORMATION AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, HE SHALL HAVE MENSE, A BOUNDARY AND/OR TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR AND SUBMIT IT TO THE OWNER FOR REVIEW.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BECOME FAMILIAR WITH THE PERMIT AND INSPECTION REQUIREMENTS OF THE VARIOUS GOVERNMENTAL AGENCIES. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION, AND SCHEDULE INSPECTION ACCORDING TO AGENCY INSTRUCTION.
3. ALL WORK PERFORMED SHALL COMPLY WITH THE REGULATIONS AND ORDINANCES OF THE VARIOUS GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE WORK, INCLUDING LANDSCAPING.
4. AT LEAST 3 WORKING DAYS PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL NOTIFY THE OWNER, ENGINEER AND APPROPRIATE AGENCIES AND SUPPLY THEM WITH ALL REQUIRED SHOP DRAWINGS, THE CONTRACTOR'S NAME, STARTING DATE, PROJECTED SCHEDULE, AND OTHER INFORMATION AS REQUIRED. ANY WORK PERFORMED PRIOR TO NOTIFYING THE OWNER & ENGINEER OF RECORD OR WITHOUT AGENCY INSPECTOR PRESENT MAY BE SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE. FAILURE TO OBTAIN APPROVAL BEFORE INSTALLATION MAY RESULT IN REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE. CONTRACTOR SHALL SUBMIT FOR REVIEW TO THE OWNER'S CONSTRUCTION MANAGER, SHOP DRAWINGS ON ALL PRECAST AND MANUFACTURED ITEMS TO USE ON THIS SITE. CONSTRUCTION MANAGER'S APPROVAL OF A SHOP DRAWING DOES NOT RELIEVE CONTRACTOR'S RESPONSIBILITY FOR PERFORMANCE OF THE ITEM.
5. WORK PERFORMED UNDER THIS CONTRACT SHALL INTERFACE SMOOTHLY WITH OTHER WORK BEING PERFORMED ON SITE BY OTHER CONTRACTORS AND UTILITY COMPANIES. IT IS NECESSARY FOR THE CONTRACTOR TO COORDINATE AND SCHEDULE HIS ACTIVITIES, WHERE NECESSARY, WITH OTHER CONTRACTOR'S AND UTILITY COMPANIES.
6. CONTRACTOR IS RESPONSIBLE FOR REPAIRS OR DAMAGE TO ANY EXISTING IMPROVEMENTS DURING CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO, DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURB, ETC., AND ALL REPAIRS SHALL BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS.
7. MATERIALS AND CONSTRUCTION METHODS FOR STREETS AND STORM DRAINAGE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LOCAL REGULATORY AGENCY.
8. CONTRACTOR SHALL REVIEW SOIL REPORTS AND BORINGS PRIOR TO BIDDING THE PROJECT AND COMMENCING CONSTRUCTION.
9. THE CONTRACTOR SHALL USE EACH PLAN IN CONJUNCTION WITH THE ENTIRE SET OF DRAWINGS AND JOB SPECIFICATIONS. DO NOT REMOVE OR DEMOLISH ANYTHING WITHOUT VERIFYING AND COORDINATION WITH ALL ELECTRICAL, PLUMBING, MECHANICAL, GENERAL TRADES, AND UTILITY COMPANIES AS THEY EFFECT THE OVERALL PROJECT.
10. REFER TO ARCHITECTURAL DRAWINGS FOR BUILDING DIMENSIONS, & UTILITY ENTRANCES.
11. CONTRACTOR SHALL REFER TO ARCHITECT'S PLANS FOR EXACT DIMENSIONS, SLOPE PAVING, COLUMNS, DOOR LOCATIONS, SIDEWALKS, EXIT PORCHES, RAMPS, DRAINAGE CONNECTIONS, AND UTILITY ENTRANCE LOCATIONS.
12. SEE COVER SHEET FOR LIST OF UTILITY COMPANIES AND CONTACT PERSONS.
13. ALL NECESSARY PERMITS AND APPROVALS FROM AGENCIES GOVERNING THE CONSTRUCTION OF THIS WORK SHALL BE SECURED PRIOR TO BEGINNING CONSTRUCTION.
14. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.
15. ALL WORK AND MATERIAL SHALL COMPLY WITH ALL REGULATORY AGENCY'S REGULATIONS AND CODES AND O.S.H.A. STANDARDS.
16. PRIOR TO ANY WORK ON-SITE, THE CONTRACTOR SHALL CONTACT THE ONE CALL SYSTEM. THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY REMOVALS WHETHER LOCATED BY THE ONE CALL SYSTEM OR NOT.

EROSION CONTROL NOTES:

1. PRIOR TO CONSTRUCTION, THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE EROSION CONTROL PLAN SHALL BE IN PLACE. CLEARING AND GRUBBING OPERATIONS WILL BE ENGAGED IN ONLY AS NECESSARY TO ALLOW THE PLACEMENT OF EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN UNTIL ALL SUCH MEASURES ARE IN PLACE. LAND DISTURBING ACTIVITIES SHALL BE KEPT TO A MINIMUM AND WILL NOT EXTEND BEYOND THE LIMITS SHOWN.
2. CONTRACTOR SHALL INSTALL TEMPORARY CONSTRUCTION ENTRANCE PRIOR TO ANY EARTHWORK OPERATIONS.
3. SILT FENCES SHALL BE CLEANED OR REPLACED WHEN TRAPPED SEDIMENT REACHES 50 PERCENT OF THE ABOVE GROUND FENCE HEIGHT OR PER MANUFACTURER'S SPECIFICATIONS.
4. SEDIMENT AND EROSION CONTROL MEASURES WILL BE INSPECTED ON A DAILY BASIS AND REPAIRED, ADJUSTED AND MAINTAINED AS NEEDED OR REQUIRED BY GOVERNING AGENCIES AT NO ADDITIONAL EXPENSE TO THE OWNER TO PROVIDE EROSION AND SEDIMENT CONTROL FOR THE DURATION OF CONSTRUCTION AND UNTIL ALL DISTURBED AREAS ARE STABILIZED.
5. ALL EROSION CONTROL MEASURES EXCEPT THE REQUIRED RIP RAP ARE TEMPORARY DEVICES. THESE TEMPORARY DEVICES SHALL BE REMOVED PRIOR TO COMPLETION OF CONSTRUCTION ONCE STABILIZATION OF ALL GRASSED AREAS ARE COMPLETE.
6. ADDITIONAL DEVICES MAY BE REQUIRED AS DEEMED NECESSARY BY GOVERNING AUTHORITIES.
7. ALL GRADED AREAS SHALL BE STABILIZED WITH A PERMANENT FAST GROWING COVER AND/OR MULCH UPON COMPLETION OF GRADING OPERATIONS. COMPLETION OF GRADING OPERATIONS DOES NOT MEAN AT THE END OF THE PROJECT. AS SOON AS FINAL GRADES ARE ESTABLISHED IN AN UNPAVED AREA, THE CONTRACTOR SHALL STABILIZE WITH A TEMPORARY GRASS OR PERMANENT SOD. IF A TEMPORARY GRASS IS APPLIED, IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO APPLY A PERMANENT SEED OR SOD AT THE PROPER TIME OF YEAR.
8. FILL SLOPES SHOULD BE PLANTED AS SOON AS AN AREA OF THE SITE IS BROUGHT TO FINAL GRADE. SURFACE RUNOFF SHALL BE INTERCEPTED AT THE TOP OF TEMPORARY AND PERMANENT SLOPES DURING CONSTRUCTION SO THAT WATER IS NOT ALLOWED TO FLOW OVER THE SLOPE FACE.
9. THE GENERAL CONTRACTOR AND THE GRADING CONTRACTOR SHALL REVIEW THERE PROPOSED GRADING SEQUENCE TO INSURE THAT THE LEAST AMOUNT OF LAND POSSIBLE AT ANY ONE TIME IS DISTURBED WITH OUT PERMANENT STABILIZATION.
10. CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE COMPLIANCE WITH ALL PERMIT REQUIREMENTS. THIS INCLUDES, BUT IS NOT LIMITED TO, INSPECTION REQUIREMENTS.

GENERAL DEMOLITION NOTES & SPECIFICATIONS:

1. THE CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS REQUIRED TO CARRY OUT THE WORK AS SHOWN ON THE DEMOLITION PLAN.
2. THE CONTRACTOR IS RESPONSIBLE TO VERIFY EXISTING UTILITIES PRIOR TO DEMOLITION AND EXCAVATION.
3. THE CONTRACTOR IS RESPONSIBLE TO COMPLY WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS IN THE REMOVAL/DEMOLITION OF HAZARDOUS MATERIALS.
4. CONTRACTOR IS RESPONSIBLE FOR ALL REGISTRATIONS, PERMITS AND FEES REQUIRED TO REMOVE AND PROPERLY DISPOSE OF ALL DEMOLITION MATERIALS.
5. DEMOLITION CONTRACTOR IS RESPONSIBLE FOR OBTAINING APPROVALS AND NOTIFICATIONS TO ALL LOCAL, STATE AND FEDERAL AUTHORITIES.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISCONNECTION OF THE UTILITY SERVICES TO THE EXISTING STRUCTURES PRIOR TO DEMOLITION OF ANY

- BUILDINGS. THE CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES PRIOR TO THE REMOVAL AND/OR RELOCATION OF UTILITIES.
7. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANY'S FORCES AND ANY FEES WHICH ARE TO BE PAID TO THE UTILITY COMPANY FOR THEIR SERVICES. THE CONTRACTOR IS NOT RESPONSIBLE FOR PAYING ALL FEES AND CHARGES.
 8. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION AND REMOVAL OF ALL STRUCTURES, PADS, WALLS, FLUMES, FOUNDATIONS, PARKING, DRIVES, DRAINAGE STRUCTURES, UTILITIES, ETC., SUCH THAT THE IMPROVEMENTS SHOWN ON THE REMAINING PLANS CAN BE CONSTRUCTED. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE, COMPACT FILL MATERIAL PER THE SPECIFICATIONS. THE CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS INVOLVED AND IS RESPONSIBLE FOR REMOVING AND DUMPING THE DEBRIS IN AN APPROVED, LAWFUL MANNER.
 9. IF NOT SHOWN ON THE DEMOLITION DRAWINGS, THE CONTRACTOR SHALL REMOVE ALL EXISTING MATERIALS AS NECESSARY TO COMPLETE ALL NEW WORK AS REQUIRED BY OTHER PORTIONS OF THE CONTRACT DOCUMENTS.
 10. ALL EXISTING UTILITIES ARE TO BE REMOVED, TERMINATED AND CAPPED AT THE RIGHT-OF-WAY. ALL EXISTING METERS, VALVES, ETC. ARE TO BE REMOVED UNLESS OTHERWISE NOTED ON THE PLANS.
 11. ALL EXISTING SERVICE LINES FOR TELEPHONE, ELECTRIC, SEWER, AND CABLE TELEVISION SERVICES ARE TO BE REMOVED TO EXISTING TRUNK LINES UNLESS OTHERWISE NOTED.
 12. ALL EXISTING FENCES, SIGNS, POWER POLES, AND LIGHT POLES LOCATED ON-SITE SHALL BE DEMOLISHED AND REMOVED UNLESS OTHERWISE NOTED.
 13. CONTRACTOR IS RESPONSIBLE FOR ALL COSTS INVOLVED IN THE REMOVAL OR RELOCATION OF ANY UTILITY. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH APPLICABLE UTILITY COMPANIES.
 14. THE CONTRACTOR SHALL MAINTAIN ALL UTILITY SERVICES TO THE EXISTING ADJACENT BUSINESSES AT ALL TIMES. THE CONTRACTOR SHALL COORDINATE WITH THE TENANT AND UTILITY COMPANY FOR THE RELOCATION AND/OR REMOVAL OF UTILITIES IF NECESSARY. SERVICES SHALL NOT BE INTERRUPTED WITHOUT APPROVAL FROM THE TENANT.
 15. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL UTILITY COMPANIES THAT MAY HAVE UTILITIES ON THE SITE TO GET A DETERMINATION IF ANY UTILITIES EXISTING WILL BE IMPACTED. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING IF THE UTILITIES SHOULD BE ABANDONED OR REMOVED.
 16. ALL AREAS WHERE PAVEMENT, STRUCTURE SLABS, FOUNDATIONS, UTILITIES, CONDUITS, AND/OR UTILITY STRUCTURES HAVE BEEN REMOVED SHALL BE BACKFILLED WITH SELECT BACKFILL MATERIAL. ALL SELECT BACKFILL MATERIAL SHALL BE PLACED AND COMPACTED PER THE REQUIREMENTS OF SPECIFICATIONS AND THE OWNERS GEOTECHNICAL ENGINEER.
 17. EXISTING CAST IN PLACE SEPTIC TANKS (IF FOUND ON-SITE) SHALL BE PUMPED BY A LICENSED CONTRACTOR. THE SEPTIC TANK SHALL THEN BE REMOVED AND THE AREA BACKFILLED PER THE PROJECT SPECIFICATIONS UNLESS OTHERWISE NOTED. ALL WORK SHALL BE IN ACCORDANCE WITH HEALTH DEPARTMENT REQUIREMENTS.
 18. CONTRACTOR IS RESPONSIBLE FOR WALKING SITE AND DETERMINING EXTENTS OF DEMOLITION WORK PRIOR TO BID DATE.
 19. CONTRACTOR SHALL COORDINATE REMOVAL OF EXISTING ELECTRICAL SERVICES ON-SITE WITH THE POWER COMPANY. POWER COMPANY IS RESPONSIBLE FOR THE DISCONNECTION AND REMOVAL OF EXISTING SERVICES UNLESS OTHERWISE NOTED.
 20. LIMITS OF PAVEMENT SHOWN TO BE REMOVED ARE APPROXIMATE AND FOR REFERENCE ONLY. CONTRACTOR SHALL FIELD VERIFY THE LIMITS OF PAVEMENT TO DETERMINE THE EXTENT OF THE EXISTING PAVEMENT TO BE REMOVED.
 21. SALVAGE RIGHTS FOR ALL DEMOLISHED MATERIALS SHALL BE FIRST GIVEN TO THE OWNER. ANY MATERIALS NOT RETAINED BY THE OWNER SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
 22. CONDITIONS EXISTING AT TIME OF INSPECTION FOR BIDDING PURPOSE WILL BE MAINTAINED BY OWNER AS FAR AS PRACTICAL.
 23. CONTRACTOR TO MAINTAIN AND PROTECT ALL EXISTING UTILITIES FROM DAMAGE DURING DEMOLITION OPERATIONS.
 24. DRAIN, PURGE AND OTHERWISE REMOVE COLLECT AND DISPOSE OF CHEMICALS, CASES, EXPLOSIVES, ACIDS, FLAMMABLES OR OTHER DANGEROUS MATERIALS BEFORE PROCEEDING WITH DEMOLITION OPERATIONS ACCORDING TO APPLICABLE CODES OR REGULATIONS.
 25. REMOVE AND TRANSPORT DEBRIS IN A MANNER THAT WILL PREVENT SPILLAGE ON ADJACENT SURFACES AND AREAS.
 26. PROMPTLY DISPOSE OF DEMOLISHED MATERIALS. DO NOT ALLOW DEMOLISHED MATERIALS TO ACCUMULATE ON-SITE.
 27. DO NOT BURN DEMOLISHED MATERIALS.
 28. IT IS UNDERSTOOD THAT ALL ABOVE GROUND ITEMS TO BE REMOVED INCLUDE THEIR ASSOCIATED BELOW GROUND COMPONENTS (I.E. FOUNDATIONS, UTILITY CONNECTIONS, ETC.).
 29. ALL TREES INSIDE THE LIMITS OF DISTURBANCE ARE TO BE REMOVED UNLESS NOTED OTHERWISE.
 30. EXISTING STRUCTURES WITHIN CONSTRUCTION LIMITS ARE TO BE ABANDONED, REMOVED, OR RELOCATED PER PLANS. ALL COST SHALL BE INCLUDED IN BASE BID.

SITE PLAN NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATIONS, INCLUDING BUT NOT LIMITED TO, ALL UTILITIES, STORM DRAINAGE, SIGNS, TRAFFIC SIGNALS AND POLES, ETC. AS REQUIRED FOR ALL SITE IMPROVEMENTS. ALL WORK SHALL BE IN ACCORDANCE WITH GOVERNING AUTHORITIES SPECIFICATIONS AND SHALL BE APPROVED BY SUCH.
2. EXISTING UTILITY LINES SHOWN ARE APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LINE LOCATIONS PRIOR TO ANY CONSTRUCTION. ANY DEVIATIONS FROM THE DESIGN LOCATIONS SHALL BE REPORTED TO THE OWNER OR ENGINEER PRIOR TO CONSTRUCTION.
3. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL AREAS INDICATED TO REMAIN UNDISTURBED OR TO REMAIN AS BUFFERS, ALL PROPERTY CORNERS, AND COORDINATION OF A REGISTERED LAND SURVEYOR TO REPLACE ALL PINS ELIMINATED OR DAMAGED DURING CONSTRUCTION.
4. CONTRACTOR IS RESPONSIBLE FOR REPAIRS OR DAMAGE TO ANY EXISTING IMPROVEMENTS DURING CONSTRUCTION, SUCH AS BUT NOT LIMITED TO, DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURB, ETC. AND ALL REPAIRS SHALL BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS.
5. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL UNDERGROUND UTILITIES WITH HIS WORK. ALL UNDERGROUND UTILITIES (WATER, SANITARY SEWER, STORM SEWER, ELECTRICAL CONDUIT, IRRIGATION SYSTEMS, AND ANY OTHER MISCELLANEOUS UTILITIES) SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF BASE COURSE MATERIAL, AND THE PLACEMENT OF ANY APPROPRIATE SOIL STABILIZATION TECHNIQUE.
6. CONTRACTOR SHALL PROVIDE BOLLARDS FOR PROTECTION OF ALL ABOVE GROUND UTILITIES AND APPURTENANCES ADJACENT TO DRIVE AREAS.
7. CONTRACTOR SHALL MATCH EXISTING PAVEMENT IN GRADE AND ALIGNMENT.
8. CONSTRUCTION SHALL COMPLY WITH ALL GOVERNING CODES AND IMPROVEMENTS SHALL BE CONSTRUCTED TO THE SAME.

DIMENSION NOTES:

1. ALL BUILDING DIMENSIONS ARE TO OUTSIDE FACE OF BUILDING.
2. ALL CURB DIMENSIONS ARE TO FACE OF CURB.

PAVING & STRIPING NOTES:

1. NOTIFY OWNER 3 DAYS PRIOR TO POUR OF INITIAL SECTION OF DRIVEWAY PAVING. CLIENT REPRESENTATIVE TO APPROVE INITIAL POUR.
2. TESTING OF MATERIALS REQUIRED FOR THE CONSTRUCTION OF THE PAVING IMPROVEMENTS SHALL BE PERFORMED BY AN AGENCY, APPROVED BY THE OWNER, FOR TESTING MATERIALS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE, BY THE STANDARD TESTING PROCEDURES, THAT THE WORK CONSTRUCTED MEETS THE REQUIREMENTS OF THE PROJECT SPECIFICATIONS.
3. ALL SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" LATEST EDITION.
4. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE STATE DOT STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES. THE CONTRACTOR SHALL REVIEW ALL TRAFFIC CONTROL DEVICES WITH DOT PRIOR TO INSTALLATION.
5. CONTRACTOR SHALL FURNISH AND INSTALL ALL PAVEMENT MARKINGS FOR PARKING STALLS, ACCESSIBLE PARKING SYMBOLS, AND MISCELLANEOUS STRIPING WITHIN PARKING LOT AND AROUND BUILDING.
6. SEE IRRIGATION PLANS AND MEP PLANS PRIOR TO PAVING FOR LOCATION OF PROPOSED SLEEVING AND CONDUITS. EXTRA CONDUIT SHALL BE PLACED UNDER DRIVEWAYS FOR FUTURE USE.
7. ALL ACCESSIBLE RAMPING, STRIPING, AND PAVEMENT MARKINGS SHALL CONFORM TO THE AMERICANS WITH DISABILITIES ACT OF 2010.
8. CONTRACTOR TO SUBMIT A POURING PLAN TO THE CONSTRUCTION MANAGER PRIOR TO THE BEGINNING OF ANY PAVING WORK.
9. PAVING CONTRACTOR TO COORDINATE WITH BUILDING CONTRACTOR ON THE CONSTRUCTION AND PAVING NEAR THE SCREENING WALLS AND THE DUMPSTER PADS.
10. ALL DISCREPANCIES FOUND BY CONTRACTOR RELATED TO UNDERGROUND UTILITIES OR OTHER APPURTENANCES SHALL BE RESOLVED TO THE SATISFACTION OF OWNER AND ENGINEER PRIOR TO PLACEMENT OF ANY PAVING. CONTRACTOR TO ENSURE POSITIVE DRAINAGE FROM THE PROPOSED BUILDINGS DRAINAGE PONDING IN SUBGRADE OF AREAS TO BE PAVED, AND NOTIFY OWNER AND ENGINEER IF ANY DISCREPANCIES ARE FOUND PRIOR TO INSTALLATION OF ANY PAVING.
11. EXISTING MANHOLE TOPS, VALVE BOXES, ETC. TO REMAIN ARE TO BE ADJUSTED AS REQUIRED TO MATCH PROPOSED GRADES. IF NECESSARY, RE-ADJUSTMENTS SHALL BE PERFORMED UPON COMPLETION OF PAVING AND FINE GRADING TO ENSURE A SMOOTH TRANSITION.
12. ALL JOINTS SHALL EXTEND THROUGH THE CURB.
13. COMPACTION SHALL BE DONE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT.
14. ALL PAVEMENT TO BE SLOPED FOR POSITIVE DRAINAGE.
16. ALL RIGHT-OF-WAY STRIPING SHALL BE THERMOPLASTIC.
17. ALL PAINT STRIPING SHALL BE APPLIED IN TWO EQUAL COATS TO A TOTAL THICKNESS OF 15 MILS.

GRADING PLAN NOTES:

1. EXISTING CONTOURS INTERVAL IS SHOWN AT ONE FOOT (1').
2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY OWNER AND/OR ENGINEER OF ANY UTILITY CONFLICTS WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
3. ALL CUT OR FILL SLOPES SHALL BE 3:1 OR FLATTER UNLESS OTHERWISE NOTED.
4. CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING STORM SEWER STRUCTURES, PIPES, AND ALL UTILITIES PRIOR TO CONSTRUCTION.
5. CLEARING AND GRUBBING LIMITS SHALL INCLUDE ALL AREAS DISTURBED BY GRADING OPERATIONS. CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UNDISTURBED AREAS, ALL PROPERTY CORNERS, AND COORDINATION OF A REGISTERED LAND SURVEYOR TO REPLACE ALL PINS ELIMINATED OR DAMAGED DURING CONSTRUCTION.
6. EXISTING DRAINAGE STRUCTURES TO REMAIN ARE TO BE INSPECTED AND REPAIRED AS NEEDED, AND EXISTING PIPES TO BE CLEANED OUT TO REMOVE ALL SILTS AND DEBRIS.
7. CONTRACTOR IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING IMPROVEMENTS DURING CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO, DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURBS, ETC. AND ALL REPAIRS SHALL BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS.
8. ALL UN-SURFACED AREAS DISTURBED BY GRADING OPERATIONS SHALL RECEIVE FOUR INCHES (4") OF TOPSOIL, SEED, MULCH, WATER, ETC. CONTRACTOR SHALL GRASS DISTURBED AREAS IN ACCORDANCE WITH THE LANDSCAPE PLAN AND CITY/COUNTY SPECIFICATIONS UNTIL HEALTHY STAND OF GRASS IS OBTAINED.
9. PROPOSED SPOT ELEVATIONS REPRESENT FINISHED PAVEMENT OR GROUND SURFACE GRADE UNLESS OTHERWISE NOTED ON DRAWINGS.
10. CONTRACTOR SHALL TRIM, TACK, AND MATCH EXISTING PAVEMENT AT LOCATIONS WHERE NEW PAVEMENT MEETS EXISTING PAVEMENT.
11. REFERENCE STRUCTURAL SPECIFICATIONS AND GEOTECHNICAL REPORT FOR BUILDING PAD PREPARATION AND COMPACTION.
12. CONTRACTOR TO REVIEW BORING LOGS PROVIDED BY THE CLIENT.
13. ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT, AND SHALL HAVE TRAFFIC BEARING RING AND COVERS.
14. EXISTING MANHOLE TOPS, VALVE BOXES, ETC. TO REMAIN ARE TO BE ADJUSTED AS REQUIRED TO MATCH PROPOSED GRADES. IF NECESSARY, RE-ADJUSTMENTS SHALL BE PERFORMED UPON COMPLETION OF PAVING AND FINE GRADING TO ENSURE A SMOOTH TRANSITION.
15. THE CONTRACTOR SHALL ADHERE TO ALL TERMS AND CONDITIONS AS OUTLINED IN THE GENERAL N.P.D.E.S. PERMIT FOR STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
16. CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDING AND FOR ALL NATURAL AND PAVED AREAS.
17. ALL RETAINING WALLS TO BE PROTECTED DURING BACKFILL BY CONTRACTOR. THIS INCLUDES BUT IS NOT LIMITED TO, PROVIDING AND INSTALLING PROPER BRACING DURING BACKFILL BEING PLACES ADJACENT TO RETAINING WALLS.

STORM DRAINAGE NOTES:

1. ALL PIPES ENTERING STORM SEWER STRUCTURES SHALL BE SEALED TO ASSURE CONNECTION AT STRUCTURE IS WATER TIGHT.
2. REFERENCE DETAIL SHEETS FOR STORM WATER DETAILS.
3. THE CONTRACTOR SHALL SUBMIT BUOYANCY CALCULATIONS ON ALL RUNS OF PIPE THAT DO NOT UTILIZE CONCRETE PIPE. BUOYANCY CALCULATIONS SHALL BE PREPARED, SIGNED, AND SEALED BY A REGISTERED ENGINEER. SHALL REPRESENT ACTUAL FIELD CONDITIONS, AND SHALL DEMONSTRATE THAT THE PIPE WILL NOT BECOME BUOYANT UNDER ANY CONDITIONS. THE CONTRACTOR MAY ELECT TO PROVIDE A RESTRAINING SYSTEM, DESIGNED BY A REGISTERED ENGINEER, ADEQUATE TO RESIST BUOYANT FORCES WHERE NECESSARY.

UTILITY NOTES:

1. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES (ABOVE AND BELOW GROUND) AS SHOWN ON THESE PLANS IS BASED ON RECORD OR EITHER THE VARIOUS UTILITY COMPANIES, VISUAL OBSERVATIONS AT THE SITE, EXISTING SURVEYS AND/OR WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXACT LOCATIONS OF EXISTING UTILITIES (ABOVE AND BELOW GROUND) BEFORE BEGINNING ANY CONSTRUCTION. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST FORTY-EIGHT HOURS (48 HRS) BEFORE ANY EXCAVATION TO

REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

2. CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING STORM SEWER STRUCTURES, PIPES, AND ALL UTILITIES PRIOR TO CONSTRUCTION. EXISTING UTILITY LINES SHOWN ARE APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LINE LOCATIONS PRIOR TO ANY CONSTRUCTION. ANY DEVIATIONS FROM THE DESIGN LOCATIONS SHALL BE REPORTED TO THE OWNER AND ENGINEER OF RECORD PRIOR TO CONSTRUCTION.
3. CONTRACTOR TO REMOVE OR RELOCATE WHEN APPLICABLE, ALL EXISTING BUILDINGS, FOUNDATIONS, AND CONNECTING IMPROVEMENTS, DRAIN PIPES, SANITARY SEWER PIPE, POWER POLES AND GUY WIRES, WATER METERS AND WATER LINES, WELLS, SIDEWALKS, SIGN POLES, UNDERGROUND GAS, SEPTIC TANKS, AND ASPHALT. SHOWN AND NOT SHOWN, WITHIN CONSTRUCTION LIMITS AND WHERE NEEDED, TO ALLOW FOR FILL MATERIAL, UNLESS OTHERWISE DENOTED, TO BE REMOVED AS UNCLASSIFIED EXCAVATION.
4. CONTRACTOR IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING IMPROVEMENTS DURING CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO, UTILITIES, PAVEMENT, STRIPING, CURBS, ETC. REPAIRS SHALL BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS.
5. CONTRACTOR SHALL REFER TO ARCHITECTS PLANS AND SPECIFICATIONS FOR ACTUAL LOCATION OF ALL UTILITY ENTRANCES TO INCLUDE SANITARY SEWER LATERALS, DOMESTIC AND FIRE PROTECTION WATER SERVICE, ELECTRICAL, AND TELEPHONE. CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO AVOID CONFLICTS AND ASSURE PROPER DEPTHS ARE ACHIEVED AS WELL AS COORDINATING WITH CITY UTILITY REQUIREMENTS AS TO LOCATIONS AND SCHEDULING FOR TIE-INS/CONNECTIONS PRIOR TO CONNECTING EXISTING FACILITIES.
6. CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL PLANS, POWER COMPANY, & TELEPHONE COMPANY FOR ACTUAL ROUTING OF POWER AND TELEPHONE SERVICE TO BUILDING.
7. SEE DETAIL SHEETS FOR BACKFILLING AND COMPACTION REQUIREMENTS ON UTILITY TRENCHES.
8. CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST STANDARD OF OSHA DIRECTIVES OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING, AND OTHER MEANS OF PROTECTION. THIS TO INCLUDE BUT NOT LIMITED TO, ACCESS AND EGRESS FROM ALL EXCAVATION AND TRENCHING. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH THE PERFORMANCE CRITERIA FOR OSHA.
9. CONTRACTOR SHALL COORDINATE WITH OTHER UTILITIES TO ASSURE PROPER DEPTH AND PREVENT ANY CONFLICT OF UTILITIES.
10. THE MINIMUM HORIZONTAL SEPARATION BETWEEN THE CLOSEST TWO POINTS OF THE WATER AND SEWER LINE IS TEN (10) FEET, OR MINIMUM VERTICAL SEPARATION BETWEEN THE CLOSEST TWO POINTS OF THE WATER AND SEWER LINE IS EIGHTEEN (18) INCHES.
11. CONTRACTOR SHALL GROUT AROUND ALL PIPE ENTRANCES TO SANITARY SEWER MANHOLES WITH NON-SHRINKING GROUT TO ASSURE CONNECTION IS WATER TIGHT.
12. CONTRACTOR SHALL ON ALL UTILITIES, COORDINATE INSPECTION WITH THE APPROPRIATE AUTHORITIES PRIOR TO COVERING TRENCHES AT INSTALLATION.
13. THE CONTRACTOR SHALL CONDUCT ALL REQUIRED TESTS TO THE SATISFACTION OF THE RESPECTIVE UTILITY COMPANIES AND OWNERS INSPECTING AUTHORITIES.
14. SITE CONTRACTOR TO COORDINATE PROPOSED RECONNECTION OF ALL UTILITIES WITH ARCHITECTURAL PLANS AS WELL AS UTILITY COMPANIES AND BUILDING CONTRACTOR. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL EXPENSES THAT RESULT FROM DELAYED OR FAILED TEST DURING ANY PHASE OF THE CONSTRUCTION PROCESS. THIS INCLUDES FEES INCURRED THROUGH RESCHEDULING OF ANY EQUIPMENT TO ACCOMMODATE.
15. ALL WATER AND SANITARY SEWER CROSSINGS TO BE PERPENDICULAR WITH A FULL STICK OF DUCTILE IRON PIPE IN THE SEWER LINES AT THE CROSSING OR AS INDICATED ON THE PLANS.
16. CONTRACTOR TO COORDINATE WITH SIGNAGE CONTRACTOR AND ARCHITECT FOR EXACT LOCATION OF SIGNAGE, REQUIRED ELECTRICAL CONDUITS, FOUNDATIONS, ETC.
17. CONTRACTOR SHALL PROVIDE BOLLARDS FOR PROTECTION OF ALL ABOVE GROUND UTILITIES AND APPURTENANCES ADJACENT TO DRIVE AREAS.



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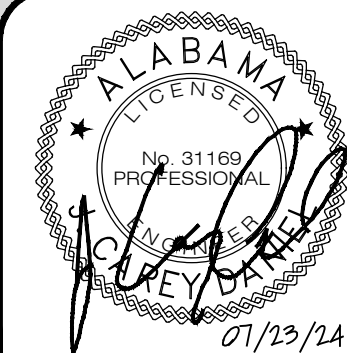
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GENERAL REQUIREMENTS

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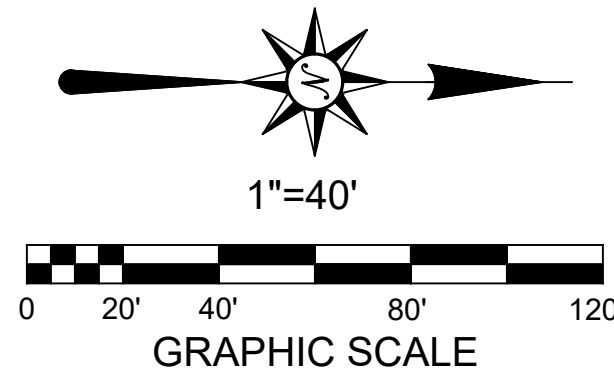
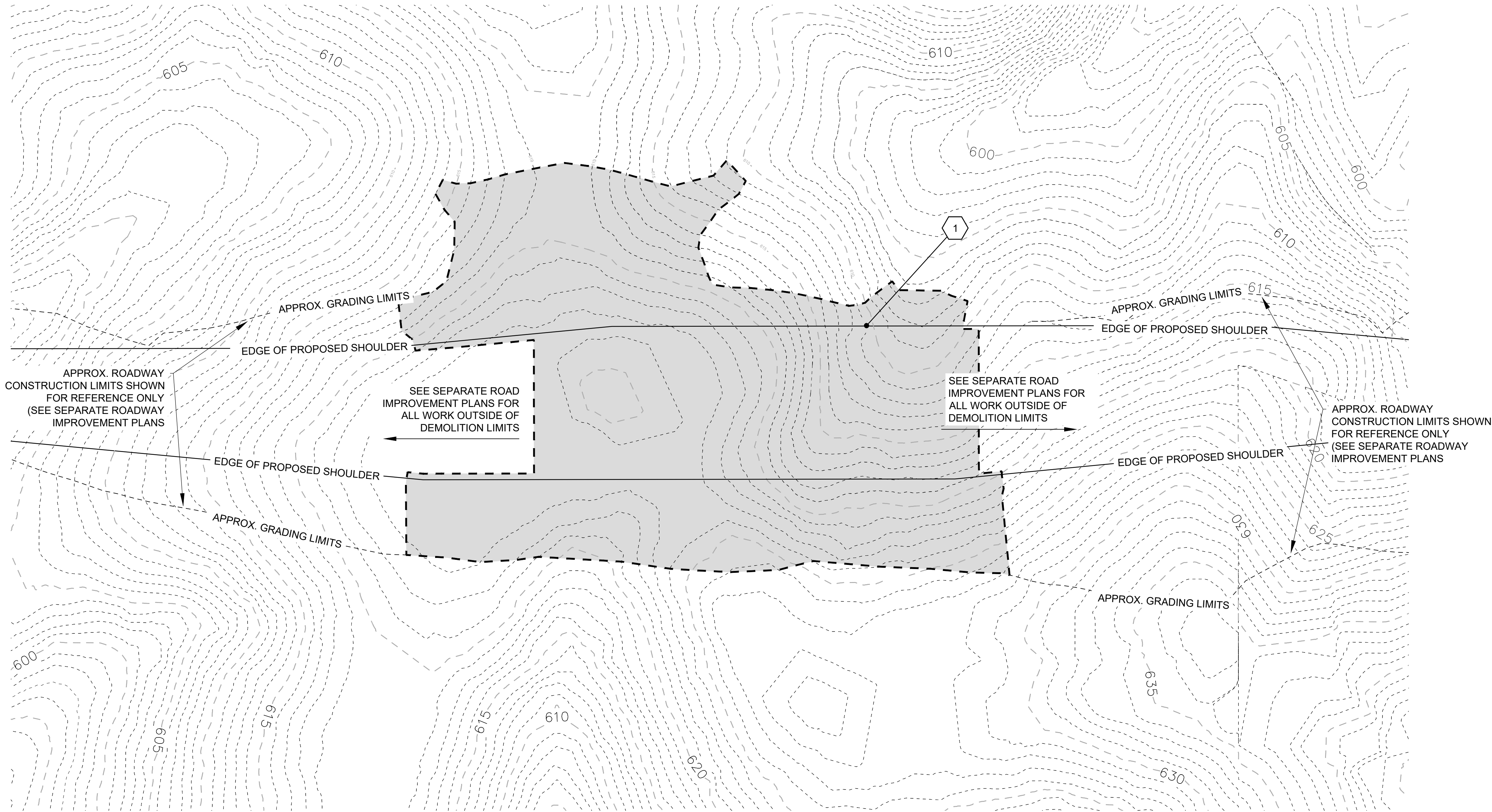
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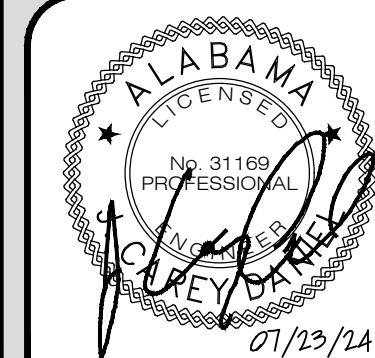
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SITE DEMOLITION PLAN

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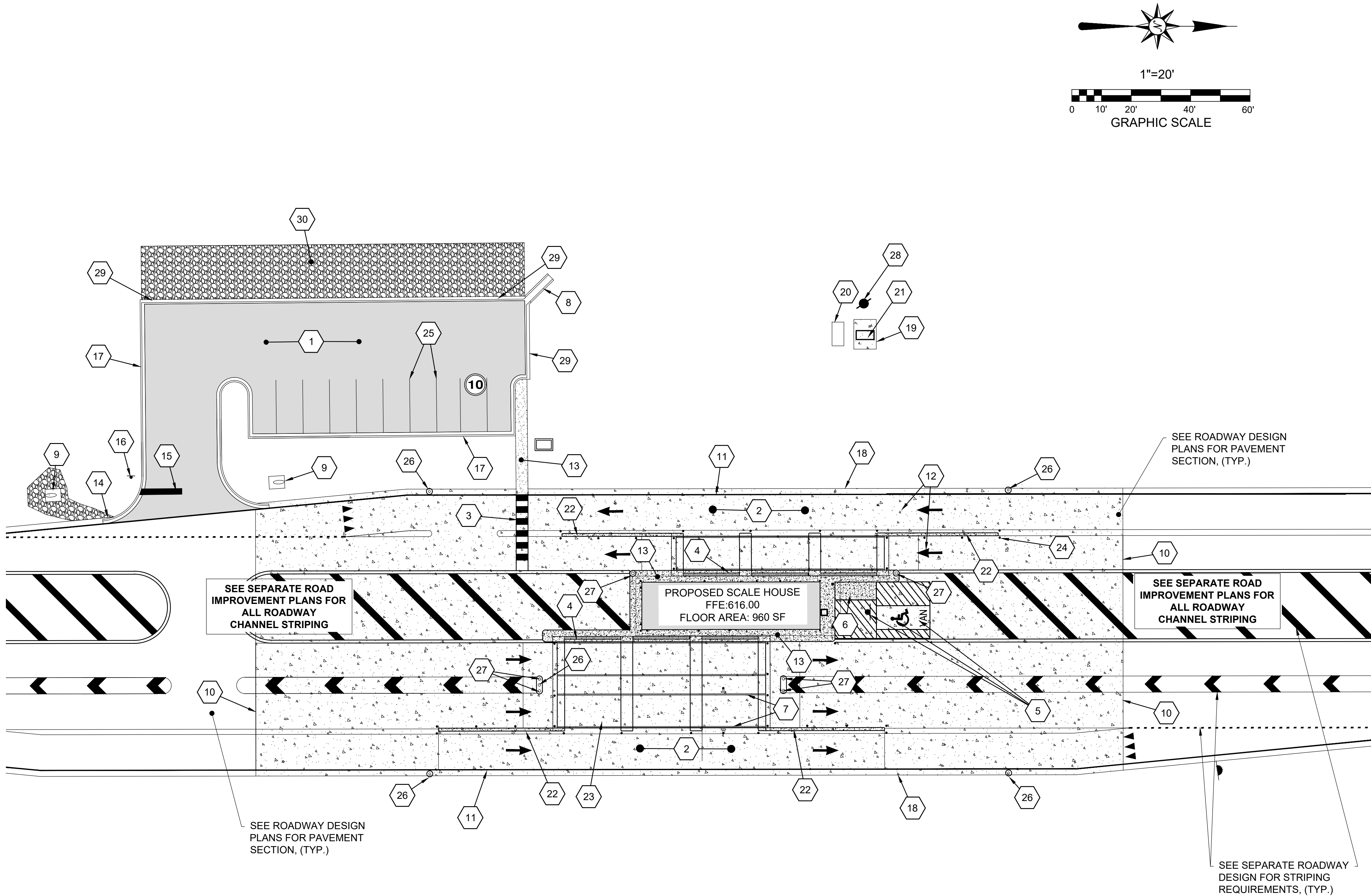
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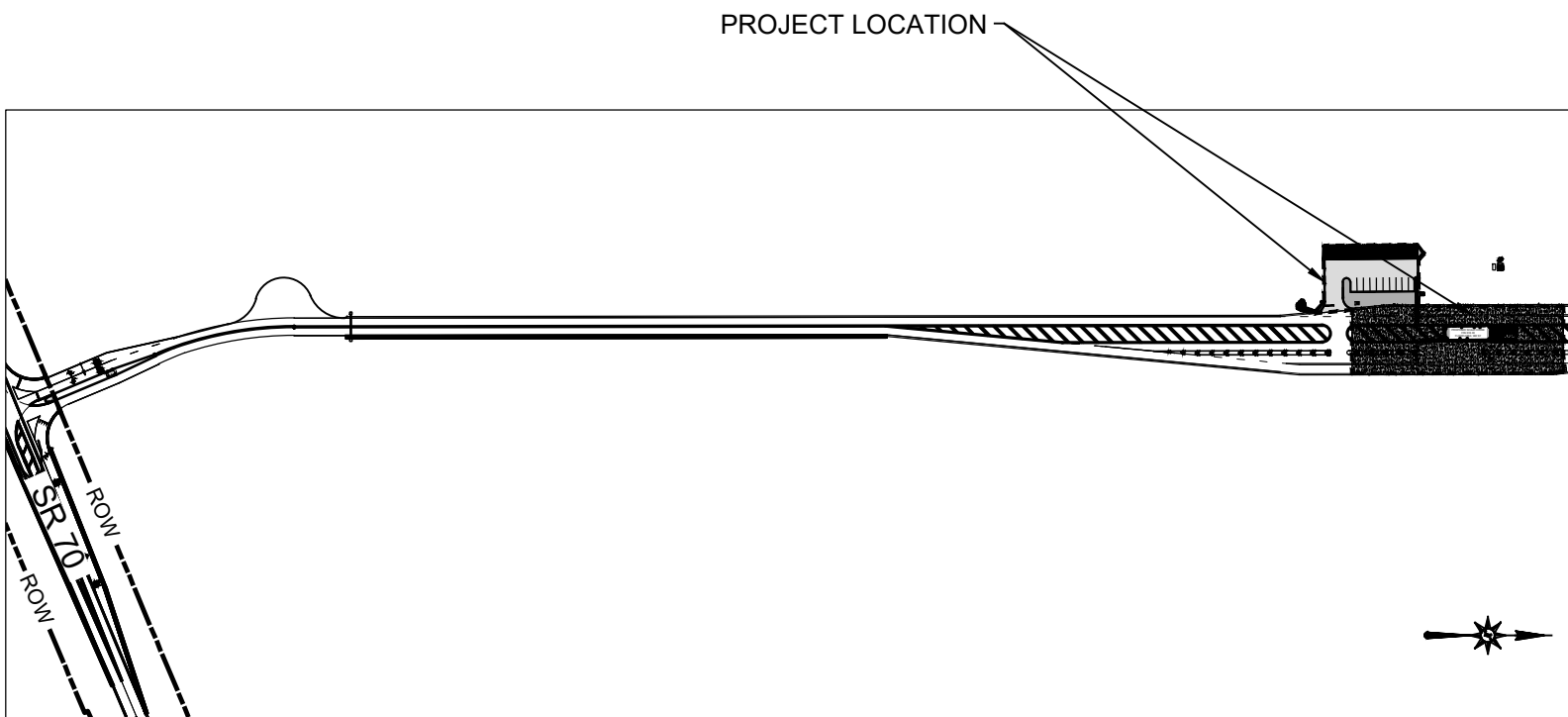


LAYOUT LEGEND

- 1 STANDARD DUTY ASPHALT PAVEMENT, SEE DETAIL SHEET C250. SUBGRADE BY OTHERS.
- 2 HEAVY DUTY CONCRETE PAVEMENT, SEE DETAIL SHEET C250.
- 3 PEDESTRIAN CROSSWALK REQ'D, SEE DETAIL SHEET C250.
- 4 PROPOSED 12" WIDE TRENCH DRAINS WITH 36" REMOVABLE SECTIONS, SHOWN AS REFERENCE ONLY. SEE ARCH PLANS FOR DETAILS AND EXACT LOCATION, (TYP.)
- 5 ACCESSIBLE SIGN, SYMBOL, AND AISLE REQ'D. TYPICAL. SEE DETAIL SHEET C250.
- 6 ACCESSIBLE RAMP REQ'D. RAMP SHALL RISE 8" IN 14'.
- 7 PROPOSED WHEEL RAILS, SHOWN AS REFERENCE ONLY. SEE ARCH PLANS FOR DETAILS AND EXACT LOCATION, (TYP.)
- 8 6" DEEP, 2-FT WIDE CONCRETE FLUME REQ'D, (TYP.). SEE GRADING PLAN FOR ELEVATIONS, AND DETAIL SHEET C251.
- 9 SLOPED PAVED HEADWALL, TYP. SEE GRADING PLAN AND DETAIL SHEET C350.
- 10 PROPOSED CONCRETE PAVEMENT TO TIE INTO PROPOSED ASPHALT WITH SMOOTH TRANSITION AND MATCH GRADE. ENSURE NO PONDING OF WATER, (TYP.). SEE DETAIL SHEET C251.
- 11 4" WIDE SOLID WHITE THERMOPLASTIC STRIPE REQ'D. TYPICAL. SEE SEPARATE ROADWAY IMPROVEMENTS PLAN FOR STRIPING CONTINUATION OUTSIDE OF SCALEHOUSE IMPROVEMENTS.
- 12 DIRECTIONAL ARROWS REQ'D. TYPICAL. SEE DETAIL SHEET C250.
- 13 CONCRETE SIDEWALK REQ'D. SEE DETAIL SHEET C251.
- 14 CURB TO TRANSITION FROM 6" TO 0" IN 10-FT. TIE-IN DRIVEWAY GUTTER TO EDGE OF TRAVEL LANE WITH SMOOTH TRANSITION. ENSURE NO PONDING OF WATER (TYP.).
- 15 24" SOLID WHITE THERMOPLASTIC STOP BAR REQ'D. (TYP.)
- 16 R1-1 STOP SIGN REQ'D (TYP). SEE DETAIL SHEET C250.
- 17 18" STANDARD CURB AND GUTTER REQ'D (TYP). SEE DETAIL SHEET C250.
- 18 PROPOSED EDGE OF PAVEMENT (TYP).
- 19 6" THICK, 3,000 PSI MIN. CONCRETE PAD REINFORCED W/ FIBER, (TYP.)
- 20 SEPTIC TANK PROVIDED BY SHELBY COUNTY, SHOWN FOR REFERENCE ONLY. SEE UTILITY PLAN FOR MORE INFORMATION.
- 21 GENERATOR REQ'D, SEE MEP PLANS FOR DETAILS AND SPECIFICATIONS
- 22 CONCRETE WALL REQ'D. (HEIGHT VARIES). SEE GRADING PLAN FOR ELEVATIONS. SEE ARCH PLANS FOR DETAILS.
- 23 SCALES BY OTHERS, (TYP.) SEE ARCH. DRAWINGS FOR DETAILS AND SPECIFICATIONS
- 24 6" BOLLARD REQ'D, (TYP.) SEE ARCH PLANS FOR EXACT LOCATION AND DETAILS.
- 25 4" WHITE PARKING STRIPING REQ'D, (TYP.)
- 26 PROPOSED 20' LIGHT AND CAMERA POLE ON 4' CONCRETE PEDESTAL, SHOWN AS REFERENCE ONLY. SEE ARCH PLANS FOR DETAILS AND EXACT LOCATIONS, (TYP. OF 5)
- 27 TRAFFIC SIGNAL ON 4-FT PEDESTAL. SEE ARCH PLANS FOR DETAILS AND EXACT LOCATIONS, (TYP. OF 6)
- 28 PROPOSED POWER POLE. SEE UTILITY PLAN.
- 29 18" VALLEY GUTTER REQ'D. SEE DETAIL SHEET C250
- 30 #57 STONE PAVING OVERFLOW PARKING AREA. SEE DETAIL SHEET C250. SUBGRADE BY OTHERS.

PAVING LEGEND

- CONCRETE SIDEWALK REQ'D., TYPICAL. SEE 07/C251.
- STANDARD DUTY ASPHALT PAVEMENT REQ'D., TYPICAL. SEE 07/C251.
- HEAVY DUTY CONCRETE PAVEMENT REQ'D., TYPICAL. SEE 08/C251.



OVERALL MAP
N.T.S.



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SITE LAYOUT PLAN

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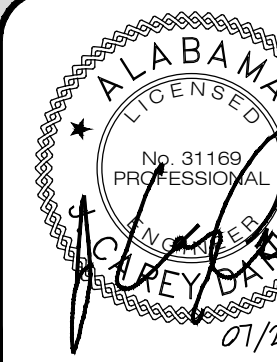
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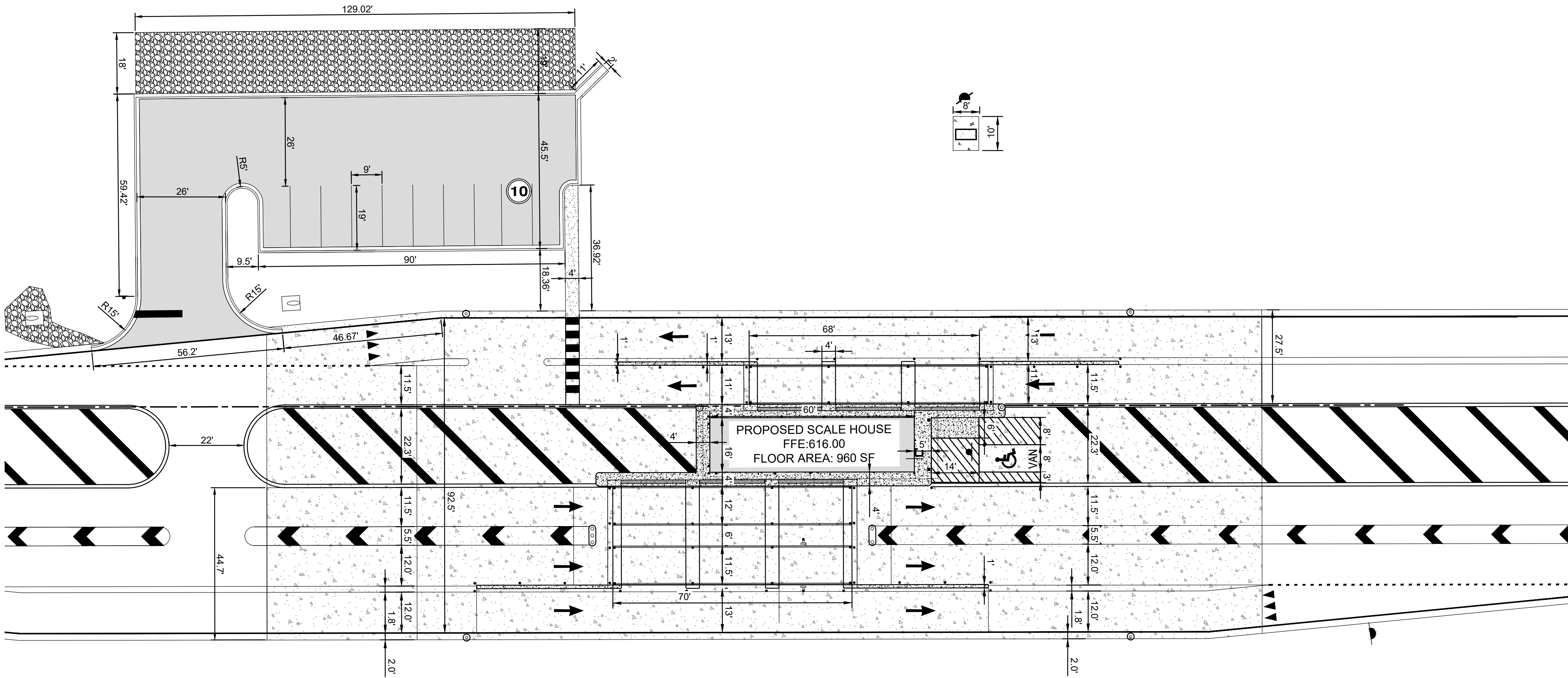
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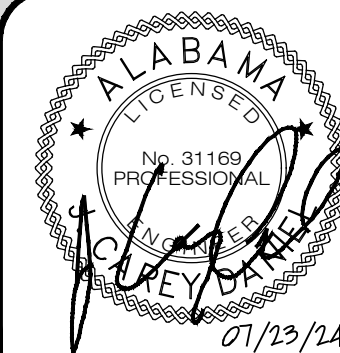


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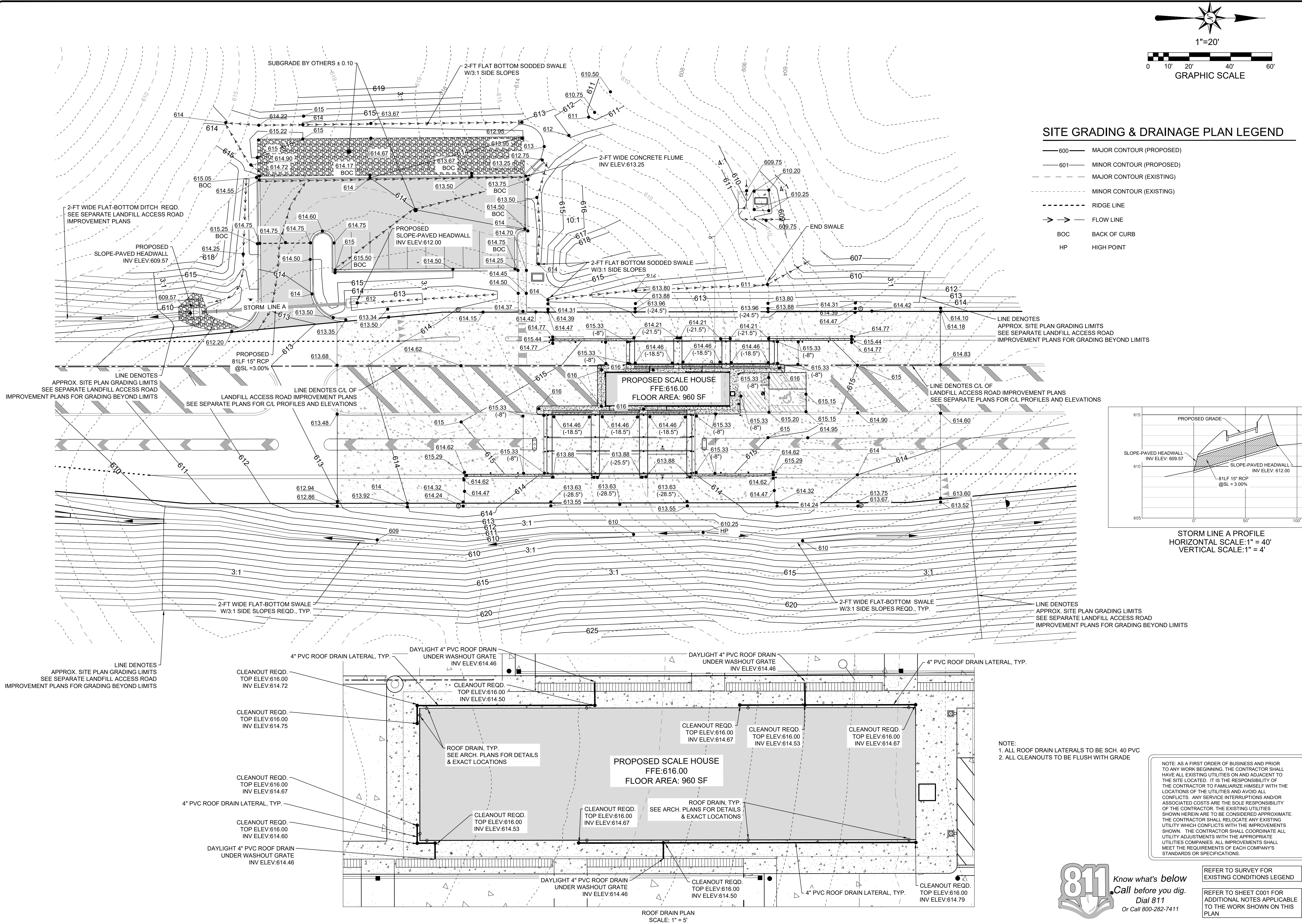
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DATE		3	
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SITE GRADING & DRAINAGE PLAN

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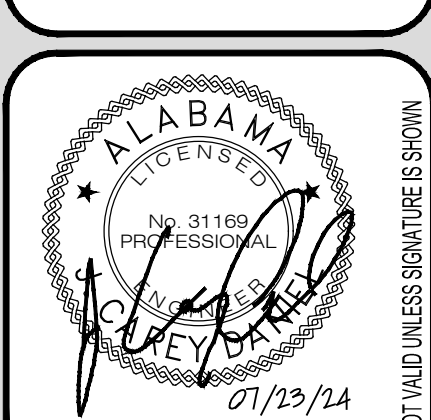
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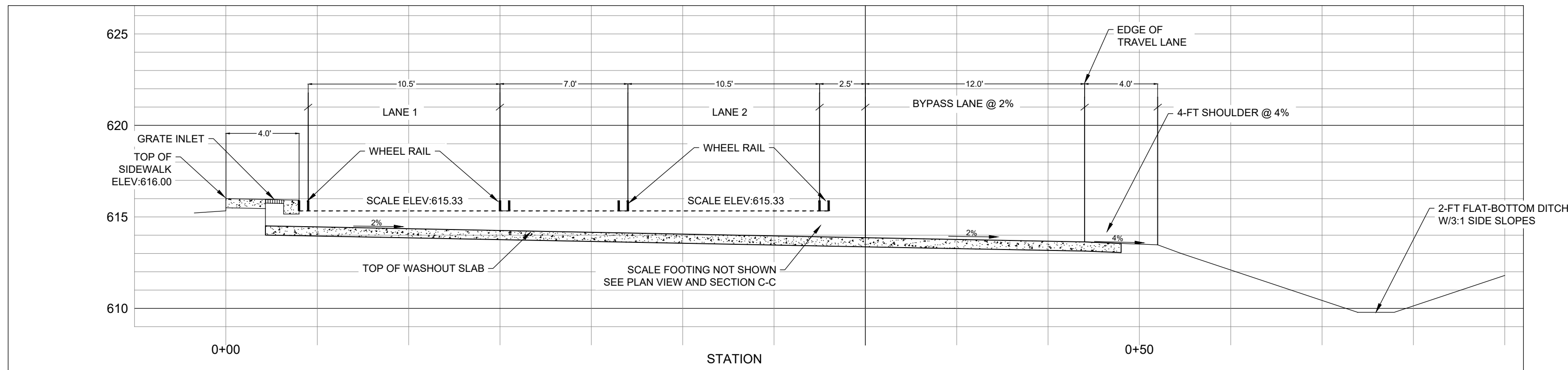
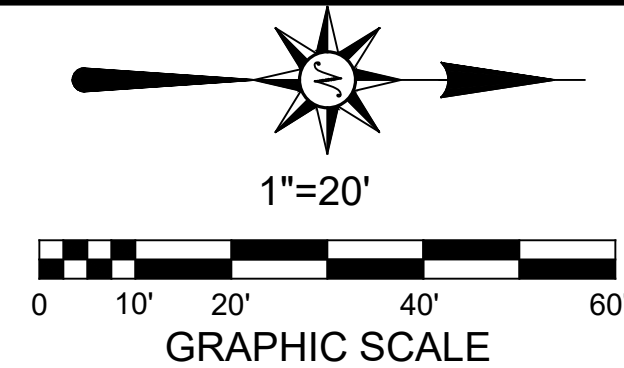
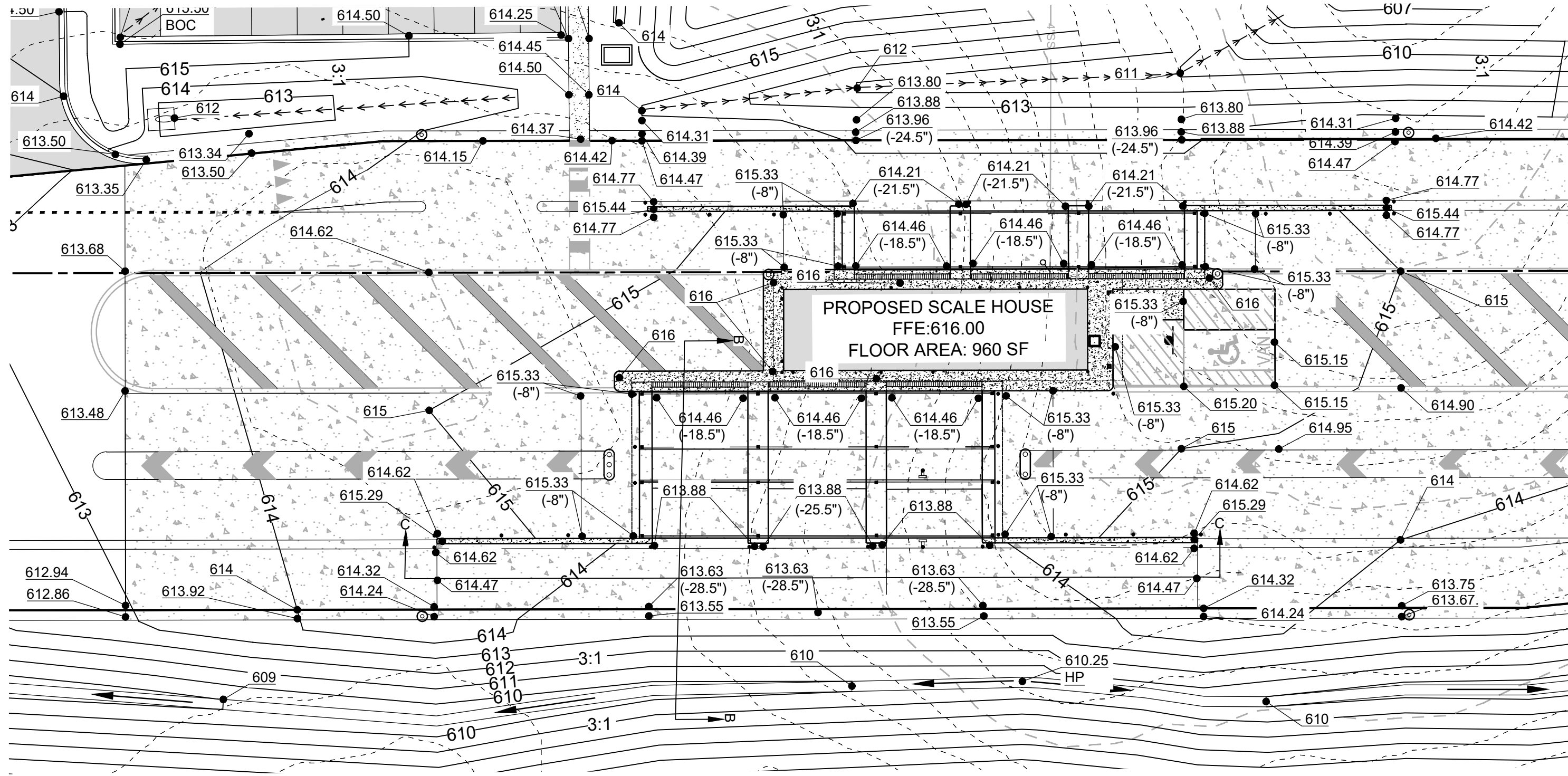
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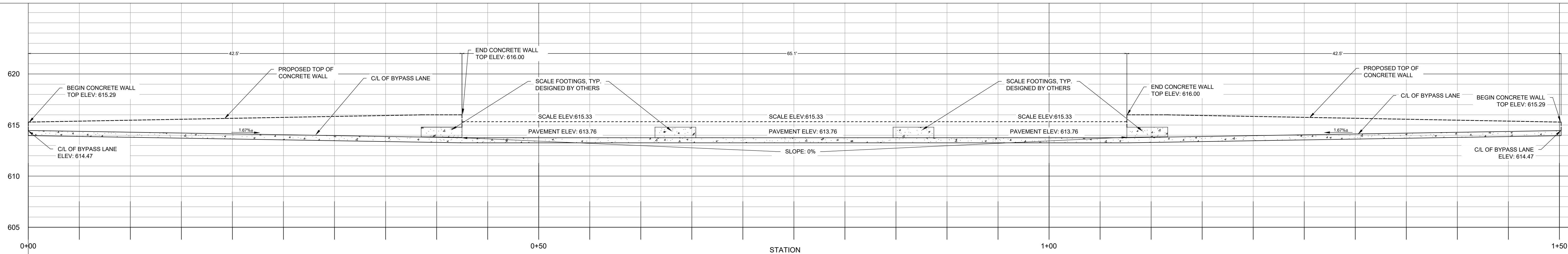
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SECTION B-B
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VERTICAL SCALE: 1" = 5'



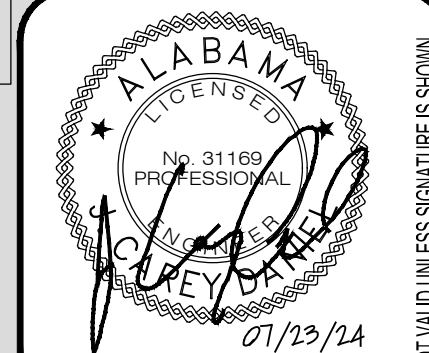
SECTION C-C
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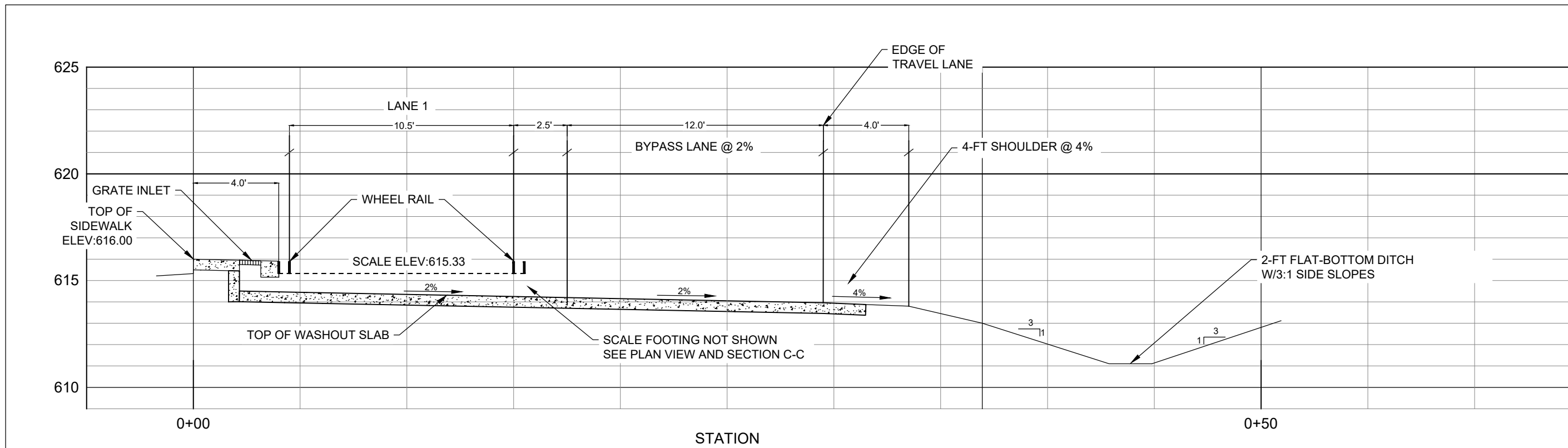
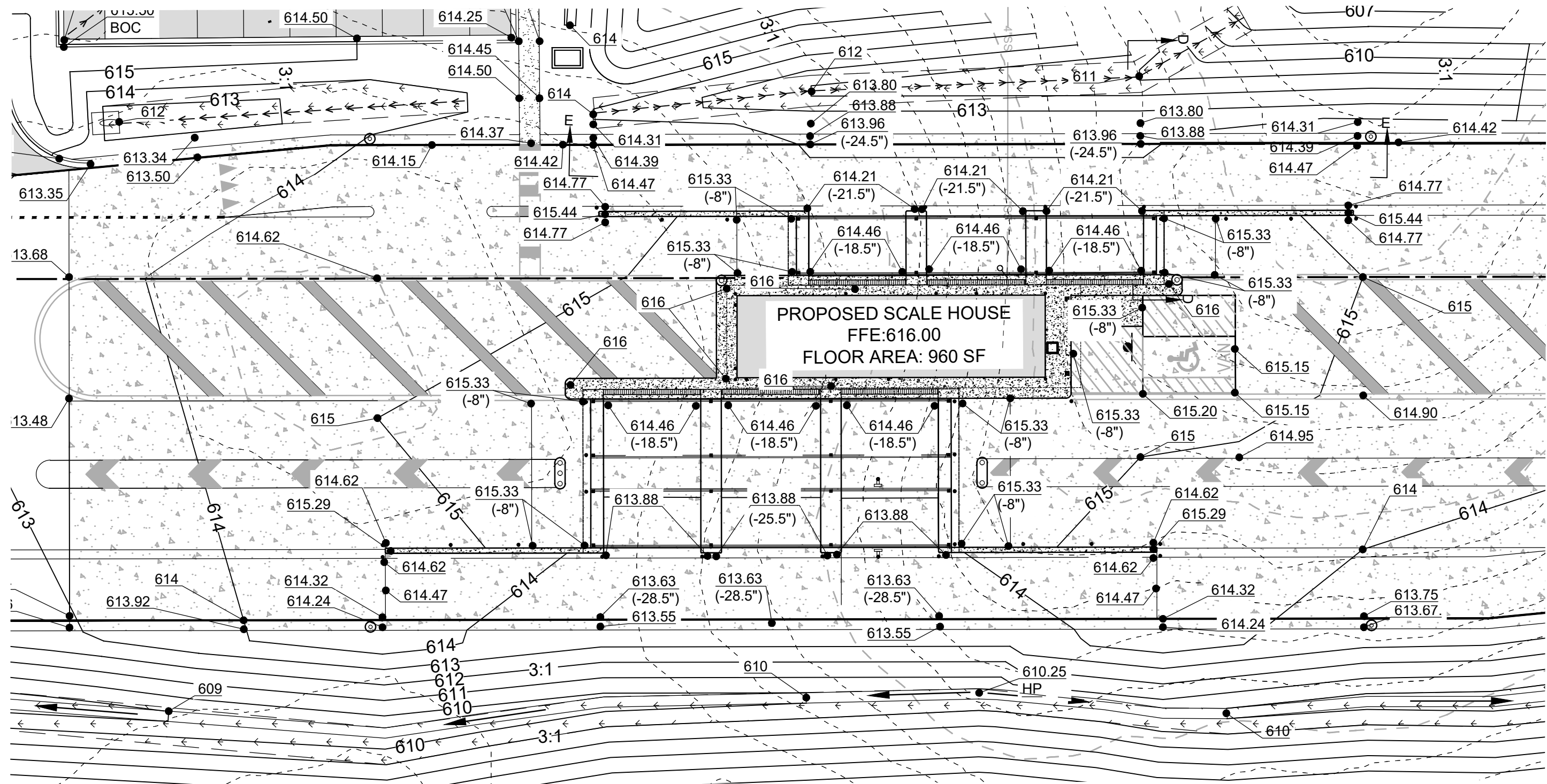
SCALE CROSS SECTIONS

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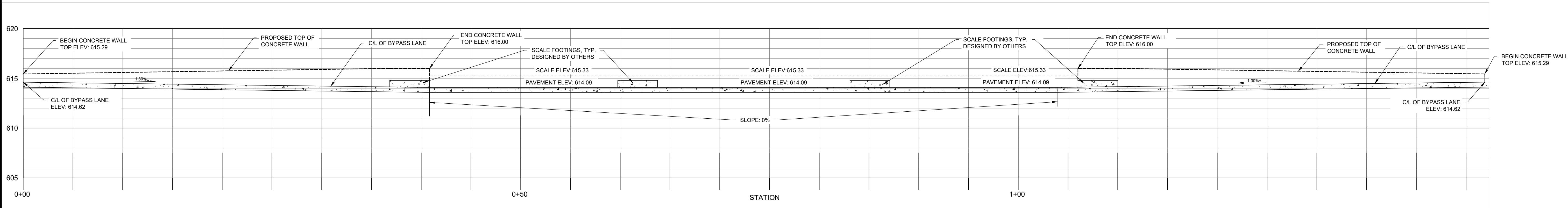
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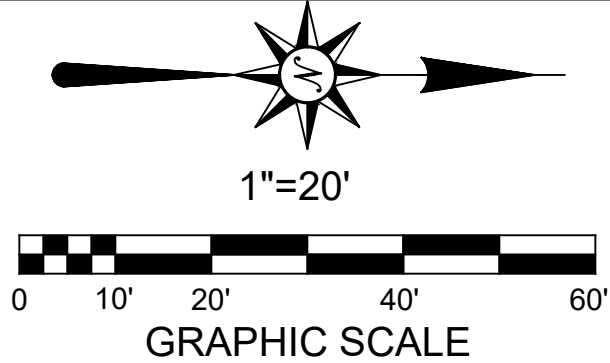
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SECTION D-D
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VERTICAL SCALE: 1" = 5'



SECTION E-E
HORIZONTAL SCALE: 1" = 5'
VERTICAL SCALE: 1" = 5'



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SCALE CROSS SECTIONS

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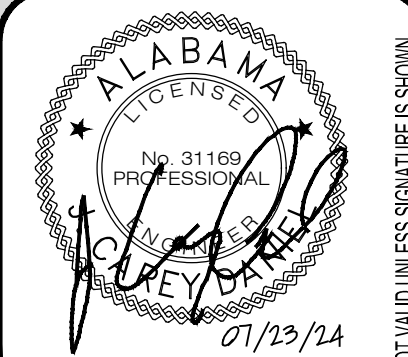
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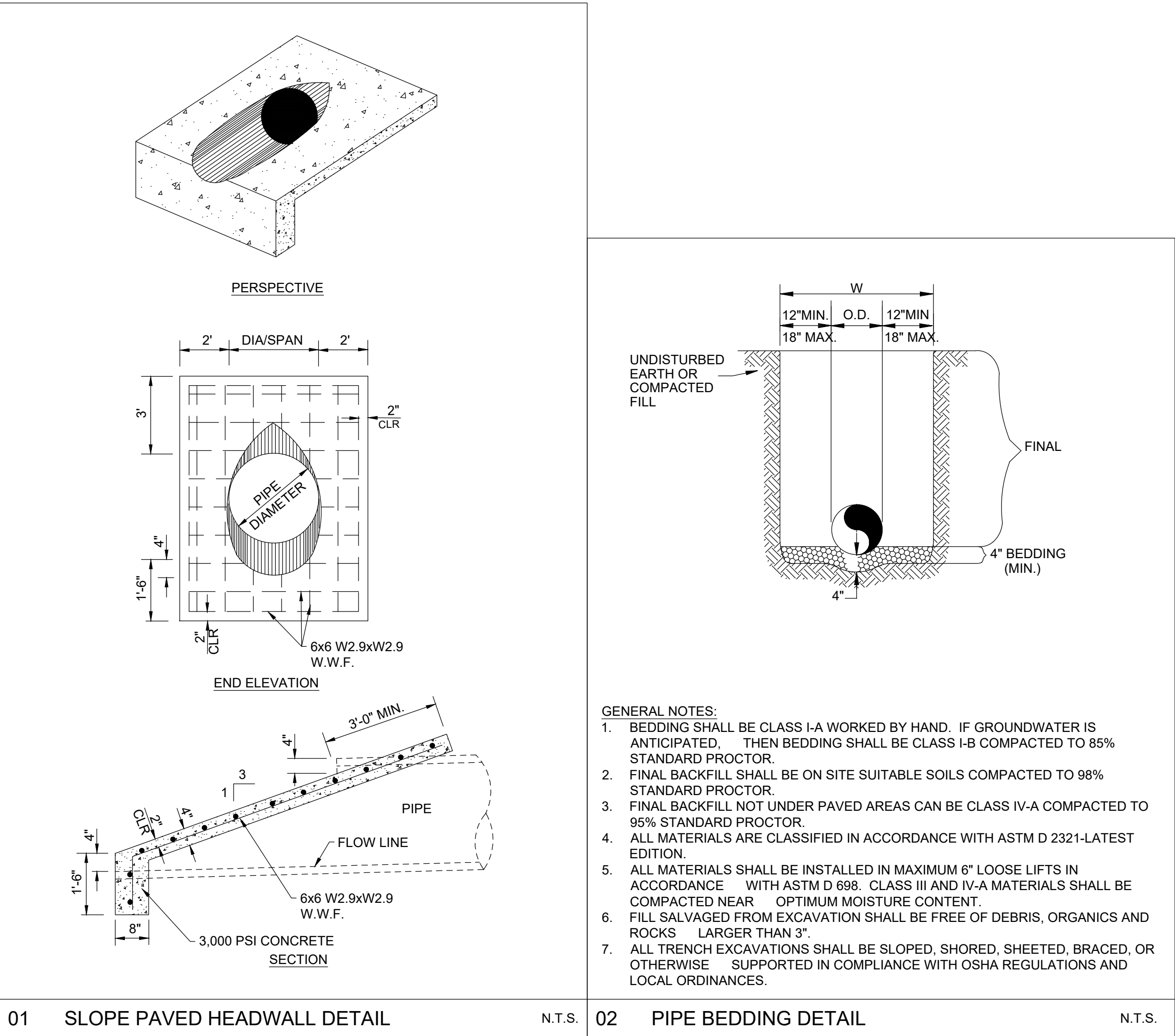
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LAND PLANNING - LANDSCAPE ARCHITECTURE

1550 WOODS OF RIVERCHASE DRIVE SUITE 200
COLUMBIA, AL 36824
PHONE: (205) 942-2486
FAX: (205) 942-3033
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DWG. NO.
C302 R 0

PROJECT
24-0098



DRAINAGE SECTIONS & DETAILS

SHELBY CO. LANDFILL SCALEHOUSE

SR 70
COLUMBIANA, AL

SHELBY CO. FACILITIES
COLUMBIANA, AL

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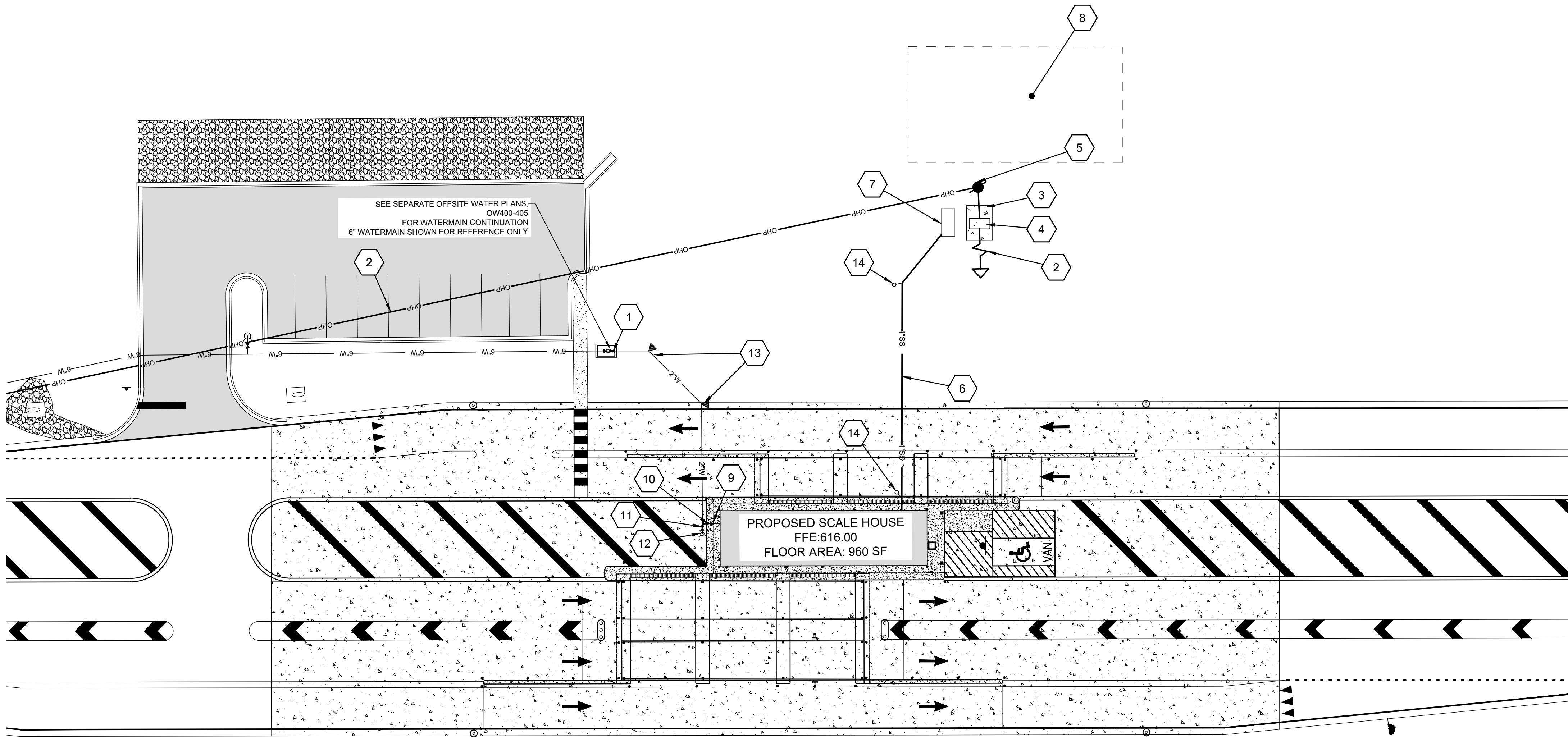
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DWG NO.
C350 R 0

PROJECT
24-0098

REVISIONS		DATE	
NO.	DESCRIPTION	ISSUE FOR BID	
0			7-23-2024
1	ADDED CONCRETE PAVEMENT DETAIL		9-6-2024
2			-
3			-
4			-



Know what's below
Call before you dig.
Dial 811
Or Call 800-282-7411

NOTE: AS A FIRST ORDER OF BUSINESS AND PRIOR TO ANY WORK BEGINNING, THE CONTRACTOR SHALL HAVE ALL EXISTING UTILITIES ON AND ADJACENT TO THE SITE LOCATED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FAMILIARIZE HIMSELF WITH THE LOCATIONS OF THE UTILITIES AND AVOID ALL CONFLICTS. ANY SERVICE INTERRUPTIONS AND/OR ASSOCIATED COSTS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE EXISTING UTILITIES SHOWN HEREIN ARE TO BE CONSIDERED APPROXIMATE. THE CONTRACTOR SHALL RELOCATE ANY EXISTING UTILITY WHICH CONFLICTS WITH THE IMPROVEMENTS SHOWN. THE CONTRACTOR SHALL COORDINATE ALL UTILITY ADJUSTMENTS WITH THE APPROPRIATE UTILITIES COMPANIES. ALL IMPROVEMENTS SHALL MEET THE REQUIREMENTS OF EACH COMPANY'S STANDARDS OR SPECIFICATIONS.

UTILITY LEGEND

- CONNECT 2" WATERLINE TO 2" VALVE IN VAULT
- OVERHEAD POWER SERVICE TO GENERATOR. COORDINATE WITH ALPCO FOR EXACT LOCATION. (SEE MEP PLANS FOR CONTINUATION FROM GENERATOR TO BUILDING). CONTRACTOR TO INSTALL CONDUIT PER ALABAMA POWER REQUIREMENTS.
- CONCRETE GENERATOR PAD REQ'D.
- GENERATOR REQ'D. SEE MEP PLANS FOR DETAILS AND SPECIFICATIONS.
- PROPOSED POWER POLE. CONTRACTOR TO COORDINATE WITH MEP AND ALPCO FOR EXACT LOCATION OF POLE AND TRANSFORMER.
- 4" SANITARY SEWER LATERAL @ 2.0% MINIMUM GRADE REQ'D.
- INV @ BLDG = 4.5' BELOW FFE. SEE MEP PLANS FOR SEWER IN BUILDING. COORDINATE WITH SHELBY COUNTY FOR SEPTIC TANK ELEVATIONS AND CONNECTION.
- PROPOSED SEPTIC TANK SHOWN FOR REFERENCE ONLY. TO BE PROVIDED & INSTALLED BY SHELBY COUNTY. LOCATION AND SIZE APPROXIMATE. ALL REQUIRED SEPTIC TANK PERMITTING TO BE COMPLETED BY SHELBY COUNTY.
- DASHED AREA DENOTES APPROXIMATE LOCATION OF SEPTIC ABSORPTION FIELD. TO BE PROVIDED AND INSTALLED BY SHELBY COUNTY.
- 1" DOMESTIC WATER SERVICE TO BUILDING. SEE MEP PLANS FOR CONTINUATION INTO BLDG.
- 1" SHUTOFF VALVE REQ'D
- SHUTOFF VALVE FOR SIAMESE CONNECTION. VALVE TO BE APPROVED PER SHELBY COUNTY.
- 2.5" SIAMESE CONNECTION FOR SCALE WASHOUT REQ'D. SEE DETAIL SHEET C450.
- 2" 45° BEND WITH THRUST BLOCK REQ'D. TO BE RESTRAINED 3', (TYP.)
- SANITARY SEWER CLEANOUT REQUIRE, (TYP.) SEE DETAIL.

UTILITY NOTES

- ALL FILL MATERIAL IS TO BE IN PLACE AND COMPACTED BEFORE INSTALLATION OF PROPOSED UTILITIES.
- CONTRACTOR SHALL NOTIFY THE UTILITY AUTHORITIES INSPECTORS 72 HOURS BEFORE CONNECTING TO ANY EXISTING LINE.
- SANITARY SEWER PIPE SHALL BE AS FOLLOWS:
 - 8" MAIN SHALL BE PVC SDR 26 PER SEWER COMPANY STANDARD SPECIFICATIONS.
 - LATERALS BETWEEN THE MAIN AND JUST OUTSIDE OF SANITARY SEWER EASEMENT OR ROW THAT TIE DIRECTLY TO THE MAIN SHALL BE THE SAME MATERIAL AS THE MAIN.
 - LATERALS BETWEEN JUST OUTSIDE OF SANITARY SEWER EASEMENT OR ROW AND THE BUILDING AND LATERALS THAT TIE TO A MANHOLE BE SDR 26 PVC PER SEWER COMPANY AND BUILDING DEPARTMENT STANDARD SPECIFICATIONS.
- WATER LINES SHALL BE AS FOLLOWS:
 - 6", 8" & 12" WATER MAINS SHALL BE DUCTILE IRON CL 350 PER WATER COMPANY STANDARD SPECIFICATIONS.
 - SMALLER THAN 6" SHALL BE EITHER COPPER TUBE TYPE "K" (SOFT) PER ANSI 816.22 OR PVC, 200 PSI PER ASTM D1784 AND D2241.
- MINIMUM TRENCH WIDTH SHALL BE 2 FEET.
- ALL WATER JOINTS SHALL BE MECHANICAL JOINTS WITH THRUST BLOCKING AS CALLED OUT IN SPECIFICATIONS.
- ALL UTILITIES SHOULD BE KEPT TEN FEET (10') APART (PARALLEL) OR WHEN CROSSING, 18" VERTICAL CLEARANCE (OUTSIDE EDGE OF PIPE TO OUTSIDE EDGE OF PIPE).
- CONTRACTOR SHALL MAINTAIN A MINIMUM OF 3'-0" COVER ON ALL WATER LINES.
- CONTRACTOR SHALL MAINTAIN A MINIMUM OF 3'-0" COVER ON ALL SANITARY SEWER LINES.
- IN THE EVENT OF A VERTICAL CONFLICT BETWEEN WATER LINES, SANITARY LINES, STORM LINES, AND GAS LINES (EXISTING AND PROPOSED), THE SANITARY LINE SHALL BE DUCTILE IRON PIPE WITH MECHANICAL JOINTS AT LEAST 10 FEET ON BOTH SIDES OF CROSSING. THE WATER LINE SHALL HAVE MECHANICAL JOINTS WITH APPROPRIATE THRUST BLOCKING AS REQUIRED TO PROVIDE A MINIMUM OF 18" CLEARANCE, MEETING REQUIREMENTS OF ANSI A21.10 OR ANSI 21.11 (AWWA C-151) (CLASS 50).
- LINES UNDERGROUND SHALL BE INSTALLED, INSPECTED, AND APPROVED BEFORE BACKFILLING.
- TOPS OF EXISTING MANHOLES SHALL BE RAISED OR LOWERED AS NECESSARY TO BE FLUSH WITH PROPOSED PAVEMENT ELEVATIONS, AND TO BE ONE FOOT ABOVE FINISHED GROUND ELEVATIONS WITH WATER TIGHT LIDS.
- ALL CONCRETE FOR ENCASEMENTS SHALL HAVE A MINIMUM 28-DAY COMPRESSION STRENGTH AT 3000 PSI.
- EXISTING UTILITIES SHALL BE VERIFIED IN FIELD PRIOR TO INSTALLATION OF ANY NEW LINES. REFER TO INTERIOR PLUMBING DRAWINGS FOR TIE-IN OF ALL UTILITIES.
- CONTRACTOR IS RESPONSIBLE FOR COMPLYING TO THE SPECIFICATIONS OF THE LOCAL AUTHORITIES WITH REGARDS TO MATERIALS AND INSTALLATION OF THE WATER AND SEWER LINES.
- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
- CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES. THIS AND THE FINAL CONNECTIONS OF THE SERVICE SHALL BE COMPLETED 30 DAYS PRIOR TO STORE POSSESSION.
- CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES FOR INSTALLATION REQUIREMENTS AND SPECIFICATIONS.
- REFER TO BUILDING PLANS FOR SITE LIGHTING ELECTRICAL PLAN.
- ALL VALVES CONTROLLING THE WATER SUPPLY FOR AUTOMATIC SPRINKLER SYSTEMS, PUMPS, TANKS, WATER LEVELS AND TEMPERATURES, CRITICAL AIR PRESSURES, AND WATER-FLOW SWITCHES ON ALL SPRINKLER SYSTEMS SHALL BE ELECTRICALLY SUPERVISED PER IFC 2003 903.4.

REFER TO SURVEY FOR
EXISTING CONDITIONS LEGEND

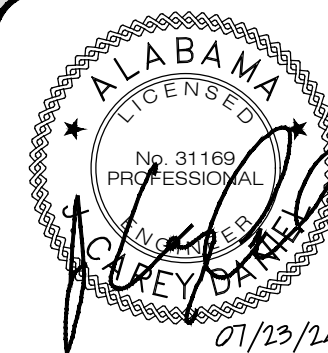
REFER TO SHEET C001 FOR
ADDITIONAL NOTES APPLICABLE
TO THE WORK SHOWN ON THIS
PLAN

SITE UTILITY PLAN

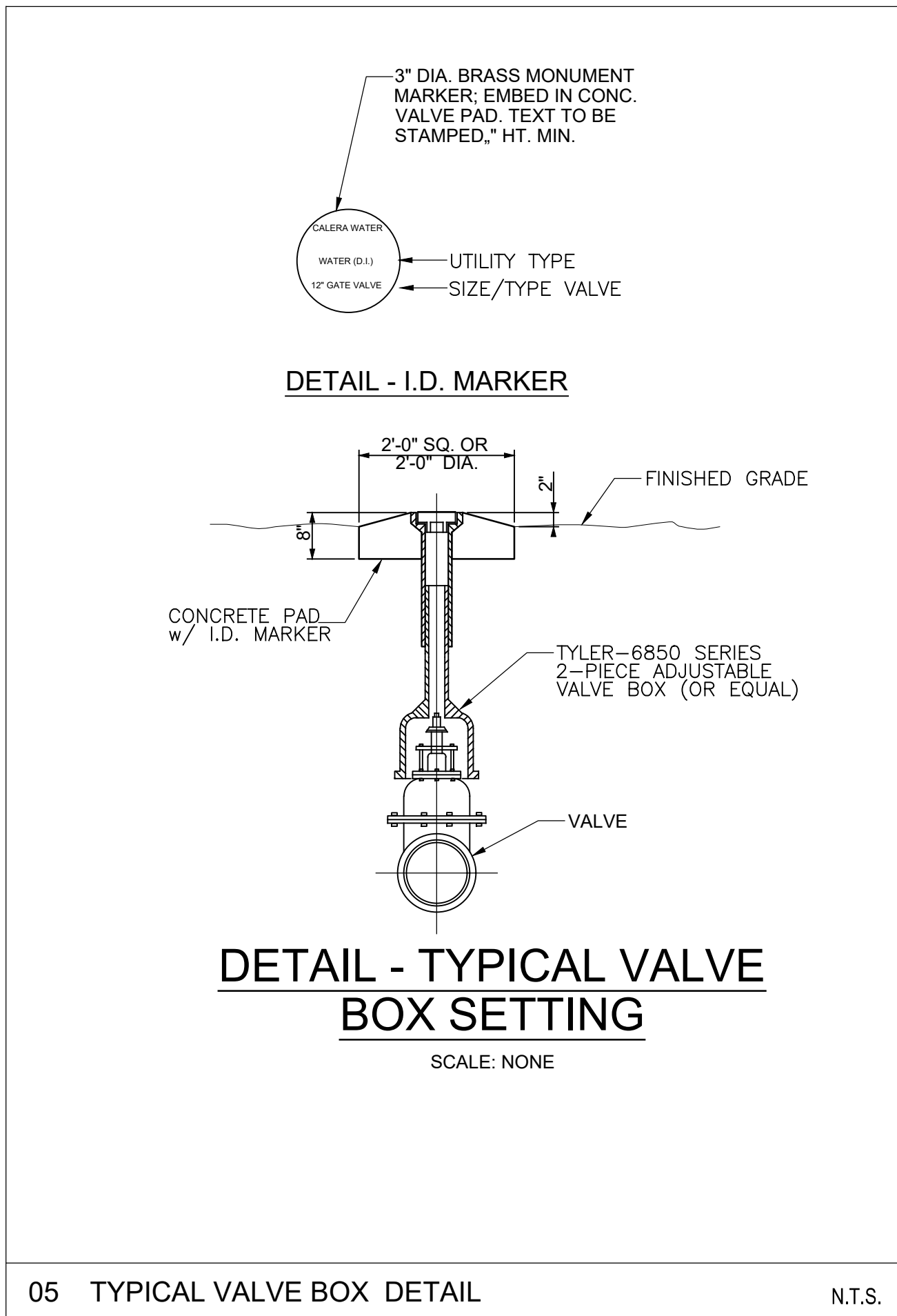
SHELBY CO. LANDFILL SCALEHOUSE

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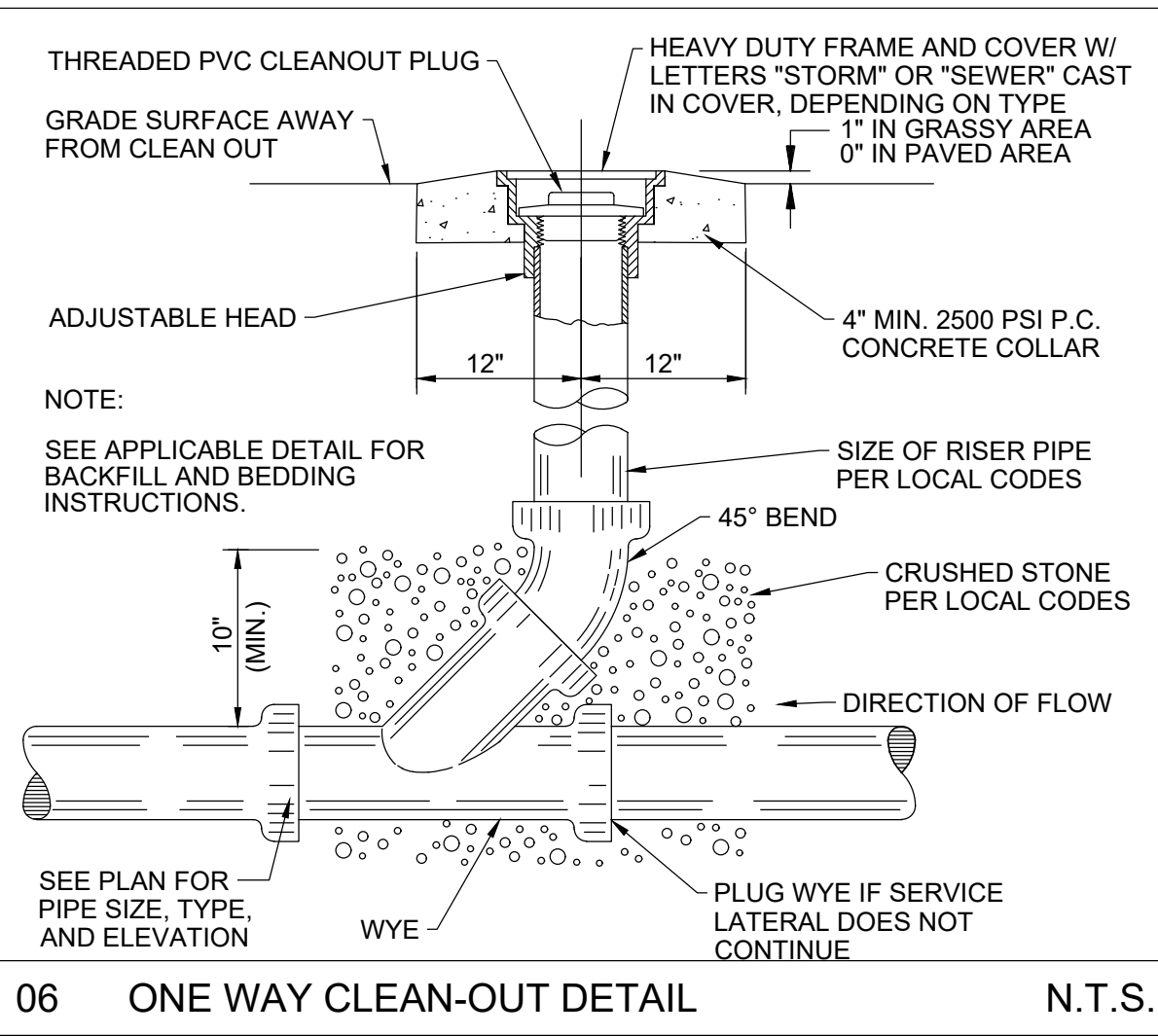
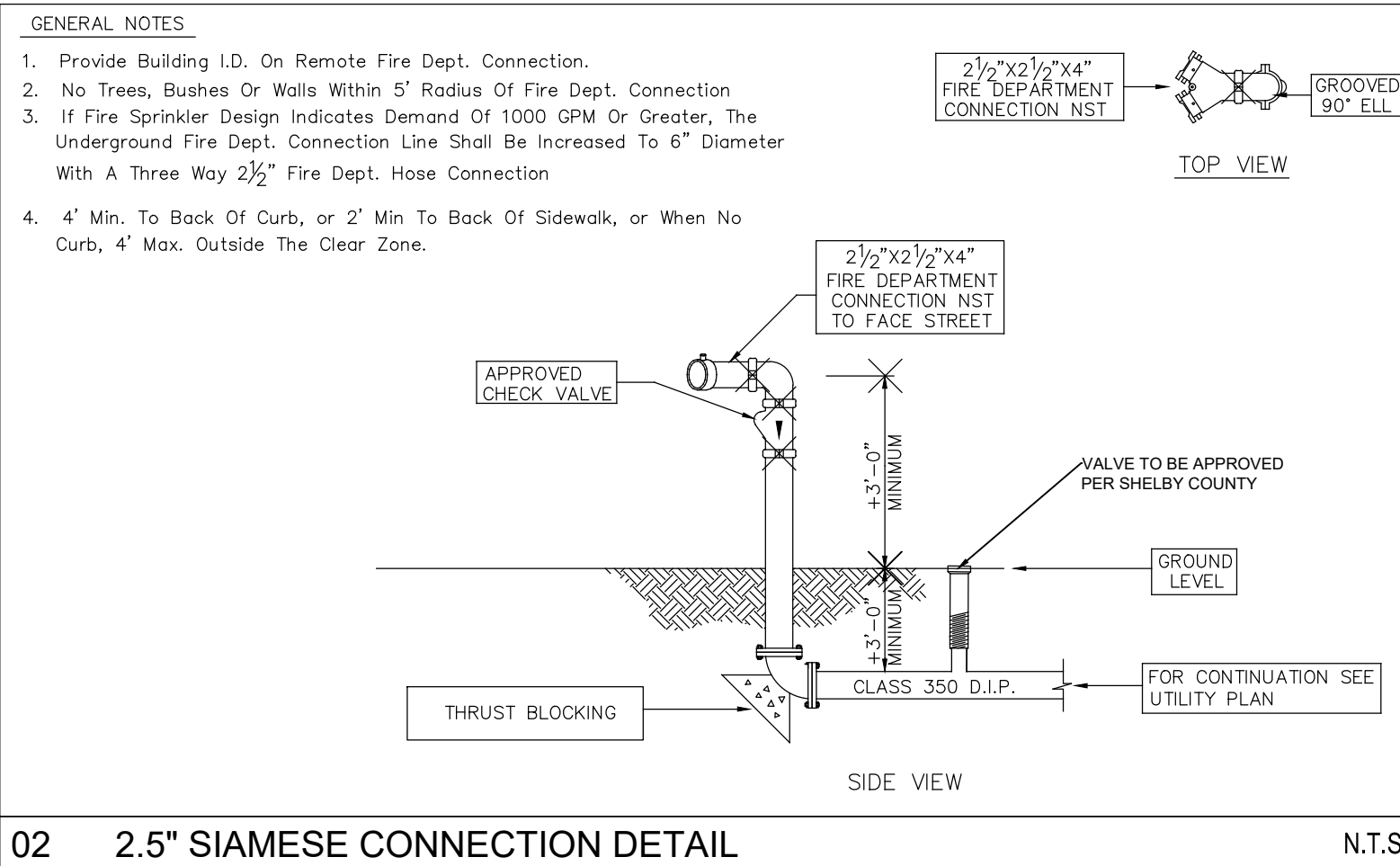
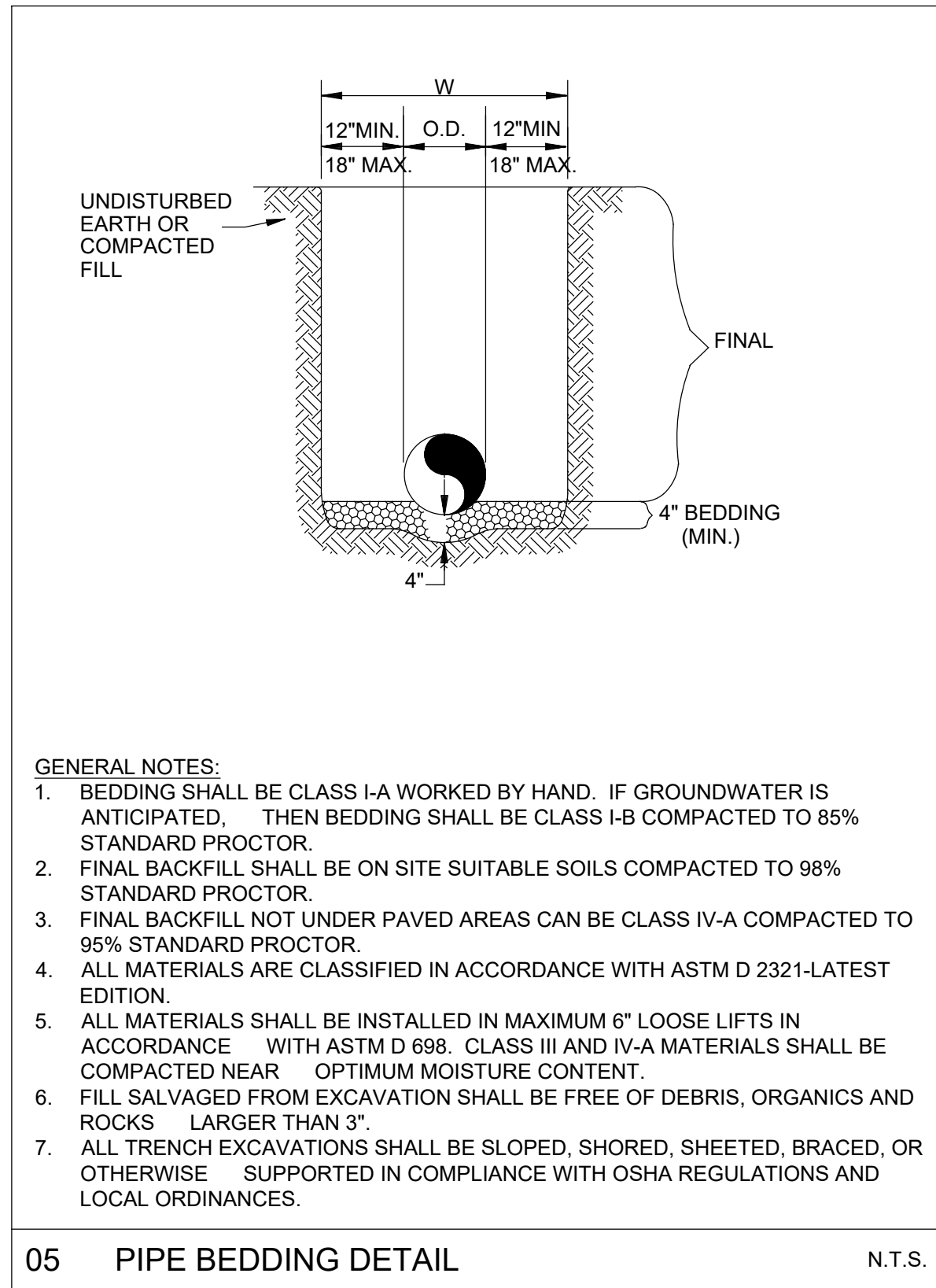


DWG NO.
C400 R 0
PROJECT
24-0098



05 TYPICAL VALVE BOX DETAIL

N.T.S.



1/2 OD

1/2 D

D

SECTION

BEND	SIZE (FT)	A (FT)	B (FT)	C (IN)	D (FT)	VOLUME (CU YD)	THRUST (LBS)
11 1/4°	6"	1.0	2.0	6	1.0	0.04	1,385
	8"	1.0	2.0	7	1.0	0.05	2,400
	10"	1.0	2.0	9	1.0	0.07	3,830
	12"	1.0	2.5	11	1.5	0.12	5,550
	14"	2.0	2.5	11	2.0	0.24	7,550
	16"	2.0	2.5	12	2.0	0.26	9,860
	20"	2.0	3.5	15	2.5	0.48	15,400
24"	2.0	4.0	18	3.0	0.70	22,185	
22 1/2°	6"	1.0	2.0	6	1.0	0.04	2,760
	8"	1.0	2.0	7	1.5	0.06	4,905
	10"	1.0	2.0	9	2.0	0.10	7,665
	12"	1.0	3.0	11	2.0	0.16	11,040
	14"	2.0	3.5	11	2.5	0.37	15,025
	16"	2.0	3.5	12	3.0	0.45	19,625
	20"	2.0	4.0	15	4.0	0.74	30,665
24"	3.0	5.0	18	4.5	1.47	44,160	
45°	6"	1.0	2.0	6	1.5	0.06	5,415
	8"	1.0	2.5	7	2.0	0.10	9,625
	10"	2.0	3.5	9	2.5	0.31	15,040
	12"	2.0	3.5	11	3.0	0.41	21,655
	14"	2.0	4.0	11	3.75	0.56	29,475
	16"	3.0	5.0	12	4.0	1.45	38,495
	20"	4.0	6.0	15	5.0	2.06	60,145
24"	5.0	7.5	18	6.5	3.35	91,610	
90°	6"	1.0	2.5	12	2.0	0.13	10,005
	8"	2.0	3.0	14	3.0	0.38	17,785
	10"	2.5	4.5	18	3.0	0.74	27,785
	12"	3.0	5.0	20	4.0	1.24	40,010
	14"	3.0	5.5	24	5.0	1.77	54,460
	16"	4.0	6.5	26	5.5	2.91	71,125
	20"	4.0	8.0	32	7.0	4.68	111,135
24"	5.0	10.0	40	8.0	8.50	160,035	
TEES AND PLUGS	6"	1.0	2.5	12	1.5	0.10	7,070
	8"	1.7	3.25	14	2.0	0.27	12,565
	10"	2.0	4.0	18	2.5	0.50	19,635
	12"	2.5	4.5	20	3.25	0.91	28,275
	14"	3.0	5.0	24	4.0	1.41	38,485
	16"	3.0	5.0	26	5.0	1.77	50,265
	20"	4.0	7.0	32	5.75	3.69	78,540
24"	6.0	9.0	40	6.5	7.94	113,100	

03 HORIZONTAL THRUST BLOCKS

N.T.S.

NOTES

- SOIL CONDITIONS SHALL BE VERIFIED BY THE ENGINEER BEFORE THRUST BLOCK DESIGN IS IMPLEMENTED.

DESIGN DATA

- DIMENSION OF THRUST BLOCK IN FEET BASED ON 2000 POUNDS PER SQUARE FOOT SOIL BEARING PRESSURE. ACTUAL INSIDE DIAMETER OF D.I.P., CLASS 50, 250 PSI TEST PRESSURE.
- CONCRETE SHALL BE CLASS A, 3000 PSI
- UNDER ADVERSE CONSTRUCTION CONDITIONS, CONCRETE SHALL BE "HIGH EARLY" TYPE.

04 VERTICAL THRUST BLOCKS

N.T.S.

SEE PLAN FOR PIPE

M.J. BEND

1/4" X 2"W STRAP

D.I.P.

6" MIN.

9"

CONCRETE BLOCK

SIZE

SIZE	A	R	LENGTH/STRAP
6"	1'-11.5"	3.5"	5'-4.5"
8"	1'-11.87"	4.656"	5'-10.25"
10"	2'-1"	5.703"	6'-4"
12"	2'-2"	6.75"	6'-9.75"
14"	2'-3.37"	7.21"	7'-3"
16"	2'-4.75"	8.75"	7'-8.5"
20"	2'-6"	10.75"	8'-8"
24"	2'-9.5"	12.87"	9'-7.5"

BEND

BEND	SIZE	A (FT)	B (FT)	C (FT)	D (FT)	WIDTH (FT)	CU YDS
11 1/4°	6"	2.0	2.0	1.0	1.83	2.0	0.29
	8"	2.33	3.0	1.5	2.08	2.0	0.51
	10"	2.75	2.75	1.37	2.5	2.75	0.78
	12"	3.0	3.33	1.5	2.67	3.0	1.11
	14"	3.0	4.0	1.67	2.67	3.33	1.48
	16"	4.0	4.0	1.67	3.67	3.33	2.22
22 1/2°	20"	4.08	5.0	2.0	3.75	4.17	3.69
	24"	5.08	5.0	2.33	4.67	4.75	4.22
	6"	2.83	2.6	1.25	2.33	2.5	0.56
	8"	3.33	3.0	1.5	2.75	3.0	1.01
	10"	3.91	4.0	2.0	3.08	3.0	1.54
	12"	4.17	4.0	3.0	3.41	4.0	2.19
45°	14"	4.33	5.0	2.5	3.33	4.0	2.98
	16"	4.5	5.0	2.5	3.5	5.0	3.68
	20"	5.33	5.5	2.75	4.17	6.0	6.07
	24"	6.33	6.58	3.33	5.08	6.0	8.75
	6"	3.5	3.0	1.5	1.75	3.25	1.08
	8"	3.75	4.0	2.0	1.83	4.0	1.19
90°	10"	4.5	4.0	2.0	2.25	5.0	2.92
	12"	4.5	4.17	2.08	2.25	5.0	3.06
	14"	5.5	5.25	2.58	2.75	6.0	5.83
	16"	6.08	6.0	3.0	3.0	6.0	7.41
	20"	7.08	7.0	3.5	3.5	7.0	11.88
	24"	7.75	8.0	4.0	3.83	8.0	17.29

SHELBY CO. LANDFILL SCALEHOUSE

SR 70

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ALABAMA
LICENSED
PROFESSIONAL
ENGINEER
No. 31160
J. J. GONZALEZ
07/12/14

DWG. NO.
C450 R 0

PROJECT
24-0098

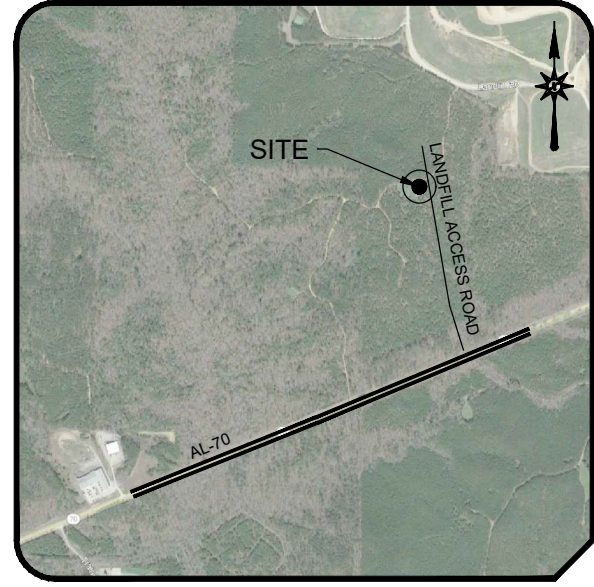
CONSTRUCTION BEST MANAGEMENT PRACTICES PLAN FOR SHELBY CO. LANDFILL SCALEHOUSE

SR 70
COLUMBIANA, AL

APPROXIMATE CONSTRUCTION SCHEDULE

	MONTH 1	MONTH 2	MONTH 3	MONTH 4-12
SILT FENCE AND CONSTRUCTION EXIT	●	●	●	
DEMOLITION	●			
CLEAR, GRUB & GRADING	●			
UTILITIES		●	●	
BUILDING CONSTRUCTION		●	●	●
PAVING				●
TEMPORARY GRASSING	●	●	●	
PERMANENT GRASSING				●
MAINTAIN EROSION CONTROL MEASURES	●	●	●	
FINAL LANDSCAPING				●

THE INSTALLATION OF EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES SHALL OCCUR PRIOR TO OR CONCURRENT WITH LAND DISTURBING ACTIVITIES.



VICINITY MAP
N.T.S.

SPILL PREVENTION

- PRACTICES SUCH AS GOOD HOUSEKEEPING, PROPER HANDLING OF HAZARDOUS PRODUCTS, AND PROPER SPILL CONTROL PRACTICES WILL BE FOLLOWED TO REDUCE THE RISK OF SPILLS FROM DISCHARGING INTO WATER RUNOFF.

GOOD HOUSEKEEPING

- QUANTITIES OF PRODUCTS STORED ON-SITE WILL BE LIMITED TO AMOUNT NEEDED FOR THE JOB.
- PRODUCTS AND MATERIALS WILL BE STORED IN A NEAT, ORDERLY MANNER IN APPROPRIATE CONTAINERS PROTECTED FROM RAINFALL, WHERE POSSIBLE.
- PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH MANUFACTURER LABELS LEGIBLE AND VISIBLE.
- PRODUCT MIXING, DISPOSAL, AND DISPOSAL OF PRODUCT CONTAINERS WILL BE ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
- SITE MATERIAL/EQUIPMENT STORAGE/LAYDOWN YARDS SHALL BE FIELD LOCATED AS REQUIRED BY CONTRACTOR, TO CONSIST OF A MINIMUM 4" STONE BED AND BE LOCATED AS TO MINIMIZE THE POSSIBILITY OF WATER COMING INTO CONTACT WITH CHEMICALS OR PETROLEUM PRODUCTS.

HAZARDOUS WASTES

- ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL, STATE, AND/OR FEDERAL REGULATIONS AND BY THE MANUFACTURER OF SUCH PRODUCTS. THE JOB SITE SUPERINTENDENT, WHO WILL ALSO BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED, WILL INSTRUCT SITE PERSONNEL IN THESE PRACTICES. MATERIAL SAFETY DATA SHEETS (MSDS'S) FOR EACH SUBSTANCE WITH HAZARDOUS PROPERTIES THAT IS USED ON THE JOB SITE WILL BE OBTAINED AND USED FOR THE PROPER MANAGEMENT OF POTENTIAL WASTES THAT MAY RESULT FROM THESE PRODUCTS. AN MSDS WILL BE POSTED IN THE IMMEDIATE AREA WHERE SUCH PRODUCT IS STORED AND/OR USED AND ANOTHER COPY OF EACH MSDS WILL BE MAINTAINED IN THE CBMPP FILE AT THE JOB SITE. CONSTRUCTION TRAILER OFFICE. EACH EMPLOYEE WHO MUST HANDLE A SUBSTANCE WITH HAZARDOUS PROPERTIES WILL BE INSTRUCTED ON THE USE OF MSDS SHEETS AND THE SPECIFIC INFORMATION IN THE APPLICABLE MSDS FOR THE PRODUCT HE/SHE IS USING, PARTICULARLY REGARDING SPILL CONTROL TECHNIQUES.
- THE CONTRACTOR WILL IMPLEMENT THE SITE SPILL PREVENTION, CONTROL, AND COUNTERMEASURES (SPCC) PLAN AND WILL TRAIN ALL PERSONNEL IN THE PROPER CLEANUP AND HANDLING OF SPILLED MATERIALS. NO SPILLED HAZARDOUS MATERIALS OR HAZARDOUS WASTES WILL BE ALLOWED TO COME IN CONTACT WITH WATER DISCHARGES. IF SUCH CONTACT OCCURS, THE WATER DISCHARGE WILL BE CONTAINED ON SITE UNTIL APPROPRIATE MEASURES IN COMPLIANCE WITH STATE AND FEDERAL REGULATIONS ARE TAKEN TO DISPOSE OF SUCH CONTAMINATED WATER. IT SHALL BE THE RESPONSIBILITY OF THE JOB SITE SUPERINTENDENT TO PROPERLY TRAIN ALL PERSONNEL IN THE USE OF THE SPCC PLAN.

SANITARY WASTES

- A MINIMUM OF ONE PORTABLE SANITARY UNIT WILL BE PROVIDED FOR EVERY TEN (10) WORKERS ON THE SITE. ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF ONE TIME PER WEEK BY A LICENSED PORTABLE FACILITY PROVIDER IN COMPLETE COMPLIANCE WITH LOCAL AND STATE REGULATIONS.
- ALL SANITARY WASTE UNITS WILL BE LOCATED ON LEVEL GROUND IN AN AREA WHERE THE LIKELIHOOD OF THE UNIT CONTRIBUTING TO WATER DISCHARGE IS REDUCED TO THE MAXIMUM PRACTICAL EXTENT. ADDITIONAL CONTAINMENT BMP'S MUST BE IMPLEMENTED, SUCH AS GRAVEL BAGS OR SPECIFICALLY DESIGN PLASTIC SKID CONTAINERS AROUND THE BASE, TO PREVENT WASTES FROM CONTRIBUTING TO WATER DISCHARGES. THE LOCATION OF SANITARY WASTE UNITS MUST BE IDENTIFIED ON THE CBMPP PHASE II PLAN BY THE CONTRACTOR ONCE THE LOCATIONS HAVE BEEN DETERMINED.
- SANITARY SEWER WILL BE PROVIDED BY MUNICIPAL AUTHORITY SYSTEM AT THE COMPLETION OF THIS PROJECT.

OFF-SITE VEHICLE TRACKING

- A STABILIZED CONSTRUCTION EXIT HAS BEEN PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENT. SEE EROSION CONTROL DETAIL SHEET(S) FOR CONSTRUCTION EXIT LOCATION AND DETAILS. THE PAVED STREET ADJACENT TO THE SITE WILL BE INSPECTED DAILY FOR TRACKING OF MUD, DIRT, OR ROCK. ANY TRACKED MATERIAL SHALL BE REMOVED BY STREET SWEEPING AND PROPERLY DISPOSED OF BY PRACTICAL MEANS OTHER THAN WASHING INTO DRAINS OR DRAINAGE WAYS. PRACTICAL MEANS INCLUDE INCORPORATING SEDIMENT INTO EARTHWORK OPERATIONS IN LANDSCAPED AREAS OR HAULING SEDIMENT AWAY VIA DUMP TRUCK AND DISPOSING OF SEDIMENT IN A LEGAL MANNER. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARP/AULIN.

INVENTORY FOR POLLUTION PREVENTION PLAN

- THE FOLLOWING MATERIALS ARE EXPECTED ON-SITE DURING CONSTRUCTION: CONCRETE PRODUCTS, ASPHALT, PETROLEUM-BASED FUELS AND LUBRICANTS FOR EQUIPMENT, TAR, METAL BUILDING MATERIALS, LUMBER, SHEET ROCK, FLOOR COVERINGS, ELECTRICAL WIRE AND FIXTURES, PAINTS/STAINS/FINISHING TREATMENTS, PAINTS, PAINT SOLVENTS, ADDITIVES FOR SOIL STABILIZATION, CLEANING SOLVENTS, PESTICIDES, FERTILIZERS, HERBICIDES, CRUSHED STONE, AND PLASTIC AND METAL PIPES.

SOIL CLEANUP AND CONTROL PRACTICES

- LOCAL, STATE, AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND PROCEDURES WILL BE MADE AVAILABLE TO SITE PERSONNEL.
- MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIALS AND EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO: BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST, AND PROPERLY LABELED PLASTIC AND METAL WASTE CONTAINERS.
- SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS.
- ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS WILL BE REPORTED AS REQUIRED BY LOCAL, STATE, AND FEDERAL REGULATIONS.
- FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEET ON SURFACE WATER), THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-424-8802.
- FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-424-8802.
- SEE PROJECT SPILL PREVENTION, CONTROL, AND COUNTERMEASURES PLAN (SPCCP) FOR REPORTING REQUIREMENTS.

PRODUCT SPECIFIC PRACTICES

- PETROLEUM-BASED PRODUCTS - CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS, AND TARS WILL BE OBSERVED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES DAILY OBSERVATIONS OF ON-SITE VEHICLES AND MACHINERY AND REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATERS, NATURAL DRAINS, AND WATER DRAINAGE INLETS. IN ADDITION, TYPICAL FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER AND SPILL PREVENTION CONTAINMENT, AND COUNTERMEASURES PLAN (SPCCP) TO PREVENT SITE CONTAMINATION. DISCHARGE OF OILS, FUELS, AND LUBRICANTS IS PROHIBITED. PROPER DISPOSAL METHODS WILL INCLUDE COLLECTION IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL, STATE, AND FEDERAL REGULATIONS.
- PAINTS - ALL PRODUCTS WILL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCT WILL NOT BE DISCHARGED TO THE STORM WATER COLLECTION SYSTEM. MATERIALS USED

- WITH THESE PRODUCTS AND PRODUCT CONTAINERS WILL BE DISPOSED OF ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
- CONCRETE TRUCKS WASHING - NO CONCRETE TRUCK WILL BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON-SITE UNLESS AN APPROVED METHOD OF CONTAINMENT IS USED.
 - FERTILIZER - THESE PRODUCTS WILL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS OR ABOVE THE GUIDELINES SET FORTH IN THE "ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL, AND WATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS," LATEST EDITION. ANY STORAGE OF THESE MATERIALS WILL BE UNDER ROOF IN SEALED CONTAINERS.
 - BUILDING MATERIALS - NO BUILDING OR CONSTRUCTION MATERIALS WILL BE BURIED OR DISPOSED OF ON-SITE. ALL SUCH BUILDING MATERIALS WILL BE DISPOSED OF IN A PROPER WASTE DISPOSAL PROCEDURE.

WASTE MATERIALS

- ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER WILL BE EMPTIED A MINIMUM OF ONCE PER WEEK OR MORE OFTEN IF NECESSARY, AND TRASH WILL BE HAULED AS REQUIRED BY LOCAL REGULATIONS. NO CONSTRUCTION WASTE WILL BE BURIED.
- ALL PERSONNEL WILL BE INSTRUCTED ON PROPER PROCEDURES FRO WASTE DISPOSAL. A NOTICE STATING THESE PRACTICES WILL BE POSTED AT THE JOB SITE, AND THE CONTRACTOR WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

NON-STORMWATER DISCHARGES

- ALL NON-STORMWATER DISCHARGES WILL BE ROUTED THROUGH ON-SITE BMP'S AND THE WATER MANAGEMENT SYSTEM WHERE POSSIBLE. THESE DISCHARGES INCLUDE FLUSHING OF WATER AND FIRE LINES, IRRIGATION WATER, GROUNDWATER, DEWATERING OF PITS OR DEPRESSIONS WITHIN THE CONSTRUCTION SITE, AND RINSE-OFF WATER OF NON-TOXIC MATERIALS.

DUST CONTROL

- EARTHMOVING ACTIVITIES - APPLICATION OF WATER BY MEANS OF TRUCKS AT SUFFICIENT FREQUENCY AND QUANTITY PRIOR TO, DURING, AND AFTER CONDUCTING EARTHMOVING OPERATIONS. CONTRACTOR SHALL DETERMINE ADEQUATE FREQUENCY BASED ON AREA CONDITIONS.
- APPLICATION OF WATER BY MEANS OF TRUCKS, HOSES, SPRINKLERS, ETC. AT A FREQUENCY TO PROVIDE A STABLE DUST-FREE SURFACE. CONTRACTOR SHALL DETERMINE ADEQUATE FREQUENCY BASED ON AREA CONDITIONS.
- INACTIVE CONSTRUCTION AREAS - APPLICATION OF WATER BY MEANS OF TRUCKS, HOSES, SPRINKLERS, ETC. TO DEVELOP A SURFACE CRUST. CONTRACTOR SHALL DETERMINE ADEQUATE FREQUENCY BASED ON AREA CONDITIONS.

CEMENT & CONCRETE WASHOUT

- CONCRETE WASTE MANAGEMENT PERTAINS TO WASTE FROM CONCRETE READY-MIX TRUCKS, MASONRY OPERATIONS, AND SIMILAR WASTE.
- STATE AND/OR LOCAL REGULATIONS DO NOT PROHIBIT CONCRETE WASHOUT ON SITE.
- DISCHARGE OF EXCESS OR WASTE CONCRETE AND/OR WASH WATER FROM CONCRETE TRUCKS IS ALLOWED AT THE CONSTRUCTION SITE. ONLY COMMERCIALY AVAILABLE ABOVE-GROUND PORTABLE CONCRETE WASHOUT CONTAINERS ARE ALLOWED AND MUST BE PROTECTED FROM VEHICLE TRAFFIC AND CLEARLY IDENTIFIED BY LEGIBLE SIGNAGE AND MUST BE LOCATED OUTSIDE OF VEGETATED BUFFERS AND AS FAR A PRACTICABLE FROM WATER CONVEYANCES AND IMPOUNDMENTS AND WATER BODIES. PORTABLE CONCRETE WASHOUT CONTAINERS SHALL CONTAIN AND/OR ACTIVELY MANAGE BOTH SOLID AND FLUID COMPONENTS OF THE MIX. CONCRETE WASHOUT CONTAINERS MUST BE CLEANED OR EXCHANGED WHEN THE REMAINING VOLUME IS REDUCED BY 85% TO PREVENT ANY POTENTIAL OVERFLOW IN AN EVENT.
- ALTERNATIVELY, WASTE CONCRETE CAN BE PLACED INTO FORMS TO MAKE RIP RAP AND/OR OTHER USEFUL CONCRETE PRODUCTS. PORTABLE CONCRETE WASHOUT CONTAINERS SHALL BE DISPOSED OF IN ACCORDANCE WITH APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS. THE GC IS RESPONSIBLE FOR ASSURING THAT THESE PROCEDURES, APPLICABLE LAWS, AND ENVIRONMENTAL REGULATIONS ARE FOLLOWED. THE LOCATION OF THE CONCRETE WASHOUT CONTAINERS SHALL BE SHOWN ON THE SITE MAPS.

SLOPE DISTURBANCE AND STABILIZATION

- DISTURBANCE OF EXISTING AND PROPOSED STEEP SLOPES SHALL BE MINIMIZED TO THE MAXIMUM EXTENT PRACTICAL.
- EXPPOSED SLOPES WHERE CONSTRUCTION OPERATIONS WILL NOT OCCUR FOR MORE THAN 10 DAYS SHALL BE TEMPORARILY STABILIZED. SLOPES OF 3:1 OR LESS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING. NO SLOPES STEEPER THAN 3:1 ARE PROPOSED ON THIS PROJECT.
- ALL SLOPES SHALL BE IMMEDIATELY PERMANENTLY STABILIZED AS THEY ARE BROUGHT TO FINAL GRADE. PERMANENT STABILIZATION SHALL MEET REQUIREMENTS OUTLINED ON THE PLAN SHEETS, SPECIFICATIONS, AND DETAILS.

TEMPORARY SEEDING OR STABILIZATION

- CONSIDERATION MUST BE GIVEN TO ANTICIPATED CLIMATE AND SEASONAL CONDITIONS WHEN PLANTING SEED.
- SEED SHALL BE FREE OF WEEDY SPECIES AND APPROPRIATE FOR SITE SOILS AND REGIONAL CLIMATE. SEED AND MUCH PER THE CONSTRUCTION DRAWINGS IMMEDIATELY AFTER TOPSOIL IS APPLIED AND FINAL GRADE IS REACHED.
- THE SITE HAS ACHIEVED FINAL STABILIZATION ONCE ALL AREAS ARE COVERED WITH BUILDING FOUNDATION OR PAVEMENT, OTHER LANDSCAPING COVER (STONE, MULCH, ETC.) OR A STAND OF GRASS WITH A MINIMUM OF 85% PERCENT DENSITY OVER THE ENTIRE VEGETATED AREA OR GREATER IN ACCORDANCE WITH THE GENERAL PERMIT REQUIREMENTS.
- VEGETATED AREAS MUST BE WATERED, FERTILIZED, AND RESEEDED AS NEEDED TO ACHIEVE THIS REQUIREMENT.
- THE VEGETATIVE DENSITY MUST BE MAINTAINED THROUGH PROJECT COMPLETION TO BE CONSIDERED STABILIZED. AREAS PROTECTED BY EROSION CONTROL BLANKETS ARE NOT PERMANENTLY STABILIZED UNTIL THE APPLICABLE GENERAL PERMIT REQUIREMENT FOR FINAL VEGETATIVE DENSITY IS ACHIEVED.
- RIP RAP, MULCH, GRAVEL, DECOMPOSED GRANITE, OR OTHER EQUIVALENT PERMANENT STABILIZATION MEASURES MAY BE EMPLOYED IN LIEU OF VEGETATION BASED ON SITE-SPECIFIC CONDITIONS, DESIGN, AND GOVERNING AUTHORITY APPROVAL.
- ALL VEGETATED AREAS SHALL BE INSPECTED REGULARLY TO CONFIRM THAT A HEALTHY STAND OF GRASS IS MAINTAINED.

PERMANENT SEEDING, SOD, OR MULCHING

- THE GC IS REQUIRED TO, AT A MINIMUM, INITIATE SOIL STABILIZATION MEASURES IMMEDIATELY WHENEVER ANY CLEARING, GRADING, EXCAVATING, OR OTHER EARTH DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED ON ANY PORTION OF THE SITE OR HAVE TEMPORARILY CEASED ON ANY PORTION OF THE SITE AND WILL NOT LIKELY RESUME FOR A PERIOD EXCEEDING 13 CALENDAR DAYS.
- THE GC HAS 7 DAYS FROM THE INITIATION OF STABILIZATION TO COMPLETE SOIL PREPARATION, SEEDING, MULCHING, AND ANY OTHER REQUIRED ACTIVITIES RELATED TO THE PLANTING AND ESTABLISHMENT OF VEGETATION. THE GC ALSO HAS 7 DAYS FROM INITIATION OF STABILIZATION TO COMPLETELY INSTALL NON-VEGETATED MEASURES, IF UTILIZED.
- ALL DISTURBED AREAS MUST BE STABILIZED TEMPORARILY WITH THE USE OF FAST-GERMINATING ANNUAL GRASS/GRAIN VARIETIES APPROPRIATE FOR SITE SOIL AND CLIMATE CONDITIONS. MULCH IS REQUIRED FOR

- ALL SEEDING APPLICATIONS, AND ALL MUCH APPLICATIONS MUST INCLUDE A SUITABLE FORM OF MULCH ANCHORING TO MINIMIZE MOVEMENT OF MULCH BY WIND OR WATER.
- ALTERNATIVE STABILIZATION MEASURES TO SEEDING, SUCH AS ANCHORED MULCH APPLICATION (WITHOUT SEEDING), MAY BE UTILIZED DURING PERIODS WHEN VEGETATIVE GROWTH IS UNLIKELY (E.G. WINTER MONTHS).
 - IT IS NOT ACCEPTABLE TO ALLOW BARE SOIL TO REMAIN EXPOSED AT ANY TIME DURING THE YEAR, REGARDLESS OF WEATHER/TEMPERATURE/SITE CONDITIONS.
 - ALLOWABLE ALTERNATIVE STABILIZATION MEASURES TO BE USED ON SITE INCLUDE: ANCHORED STRAW/HAY MULCH, WOOD CELLULOSE FIBER MULCH, AND DECORATIVE GRAVEL.
 - ROLLED EROSION CONTROL PRODUCTS (NETS, BLANKETS, TURF-REINFORCED MATS) AND VEGETATED AREAS NOT MEETING REQUIRED VEGETATIVE DENSITIES FOR FINAL STABILIZATION MUST BE INSPECTED DAILY. RILLING, RUTTING, AND OTHER SIGNS OF EROSION INDICATE THE SPECIFIED EROSION CONTROL DEVICE IS NOT FUNCTIONING OR IS NOT INSTALLED PROPERLY AND/OR ADDITIONAL EROSION CONTROL DEVICES ARE WARRANTED.

NON-COMPLIANCE & CORRECTIVE ACTION MEASURES

- ANY POORLY FUNCTIONING EROSION CONTROLS OR SEDIMENT CONTROLS, NON-COMPLIANT DISCHARGES, OR ANY OTHER DEFICIENCIES OBSERVED DURING THE INSPECTIONS SHALL BE CORRECTED AS SOON AS POSSIBLE, BUT NOT TO EXCEED 5 DAYS OF THE INSPECTION, UNLESS PREVENTED BY UNSAFE WEATHER CONDITIONS. IN UNSAFE WEATHER CONDITIONS ARE PRESENT, THEY SHALL BE DOCUMENTED.
- IN THE EVENT OF A BREACH OF A SEDIMENT BASIN/POND, TEMPORARY CONTAINMENT MEASURES SHALL BE TAKEN WITHIN 24 HOURS AFTER THE INSPECTION. PERMANENT CORRECTIVE MEASURES SHALL BE IMPLEMENTED WITHIN 5 DAYS OF THE INSPECTION; HOWEVER, IF PERMANENT CORRECTIVE MEASURES CANNOT BE IMPLEMENTED WITHIN THE TIMEFRAMES REQUIRED, THE CONTRACTOR SHALL INFORM THE RESPONSIBLE OFFICIAL AND/OR ENGINEER OR RECORD (QCP). THE RESPONSIBLE OFFICIAL AND/OR QCP SHALL CONTACT ADEM.
- THE CONTRACTOR SHALL PROMPTLY TAKE ALL REASONABLE STEPS TO REMOVE, TO THE MAXIMUM EXTENT PRACTICAL, POLLUTANTS DEPOSITED OFF-SITE OR IN ANY WATERBODY OR WATER CONVEYANCE STRUCTURE VIA THE MOST EFFECTIVE METHOD AT HIS DISPOSAL.

INSPECTION REQUIREMENTS

- A PRE-CONSTRUCTION INSPECTION SHALL BE PERFORMED BY THE QCP OR BY A QUALIFIED PERSON UNDER THE DIRECT SUPERVISION OF A QCP PER SECTION H.1 OF THE GENERAL PERMIT. THE CONTRACTOR SHALL NOTIFY THE QCP PRIOR TO MOBILIZATION OF INTENT TO COMMENCE WORK. NO BMP'S SHALL BE INSTALLED, AND NO LAND DISTURBING ACTIVITIES SHALL BE PERFORMED UNTIL AFTER THE PRE-CONSTRUCTION INSPECTION.
- CONTRACTOR SHALL OBSERVE ALL BMP'S DAILY AND AFTER EACH RAIN EVENT PER SECTION H.2 OF THE GENERAL PERMIT. EACH DEVICE SHALL BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES SHALL BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.
- SITE INSPECTIONS SHALL BE PERFORMED BY A QCI, QCP, OR A QUALIFIED PERSON UNDER THE DIRECT SUPERVISION OF A QCP PER SECTION H.3 OF THE GENERAL PERMIT. SITE INSPECTION SHALL BE PERFORMED EACH MONTH AND AFTER ANY QUALIFYING PRECIPITATION EVENT, COMMENCING AS PROMPTLY AS POSSIBLE BY NO LATER THAN 24 HOURS AFTER RESUMING OR CONTINUING ACTIVE CONSTRUCTION OR DISTURBANCE, AND COMPLETED NO LATER THAN 72 HOURS FOLLOWING THE QUALIFYING PRECIPITATION EVENT. A QUALIFYING PRECIPITATION EVENT IS DEFINED AS RAINFALL TOTALING AT LEAST 3/4" IN DEPTH.
- AN ON-SITE CBMPP EVALUATION SHALL BE PERFORMED BY THE QCP OF ALL EROSION AND SEDIMENT CONTROLS BEING IMPLEMENTED FOR ADEQUACY AND CONSISTENCY WITH SITE CONDITIONS PER SECTION H.4 OF THE GENERAL PERMIT. THE CBMPP EVALUATION SHALL BE PERFORMED AS OFTEN AS NECESSARY UNTIL POORLY FUNCTIONING OR DAMAGED EROSION CONTROLS OR SEDIMENT CONTROLS ARE CORRECTED AND, AT A MINIMUM, ONCE EVERY THREE MONTHS.

POST-CONSTRUCTION BEST MANAGEMENT PRACTICES

- CONTRACTOR SHALL IMMEDIATELY PERMANENTLY STABILIZE AREAS TO BE VEGETATED AS THEY ARE BROUGHT TO FINAL GRADE PER PLAN SHEETS, SPECIFICATIONS, AND DETAILS.
- CONTRACTOR SHALL REMOVE ALL TEMPORARY BMP'S.
- CONTRACTOR SHALL REMOVE ANY ACCUMULATED SEDIMENT FROM DETENTION POND AND PERMANENTLY STABILIZE.
- CONTRACTOR SHALL INSPECT AND REPAIR AS NECESSARY ALL BMP'S REQUIRED ON PHASE III OF THE CBMPP. THE BMP'S ON PHASE III ARE DESIGNATED PERMANENT.

CBMPP NARRATIVE

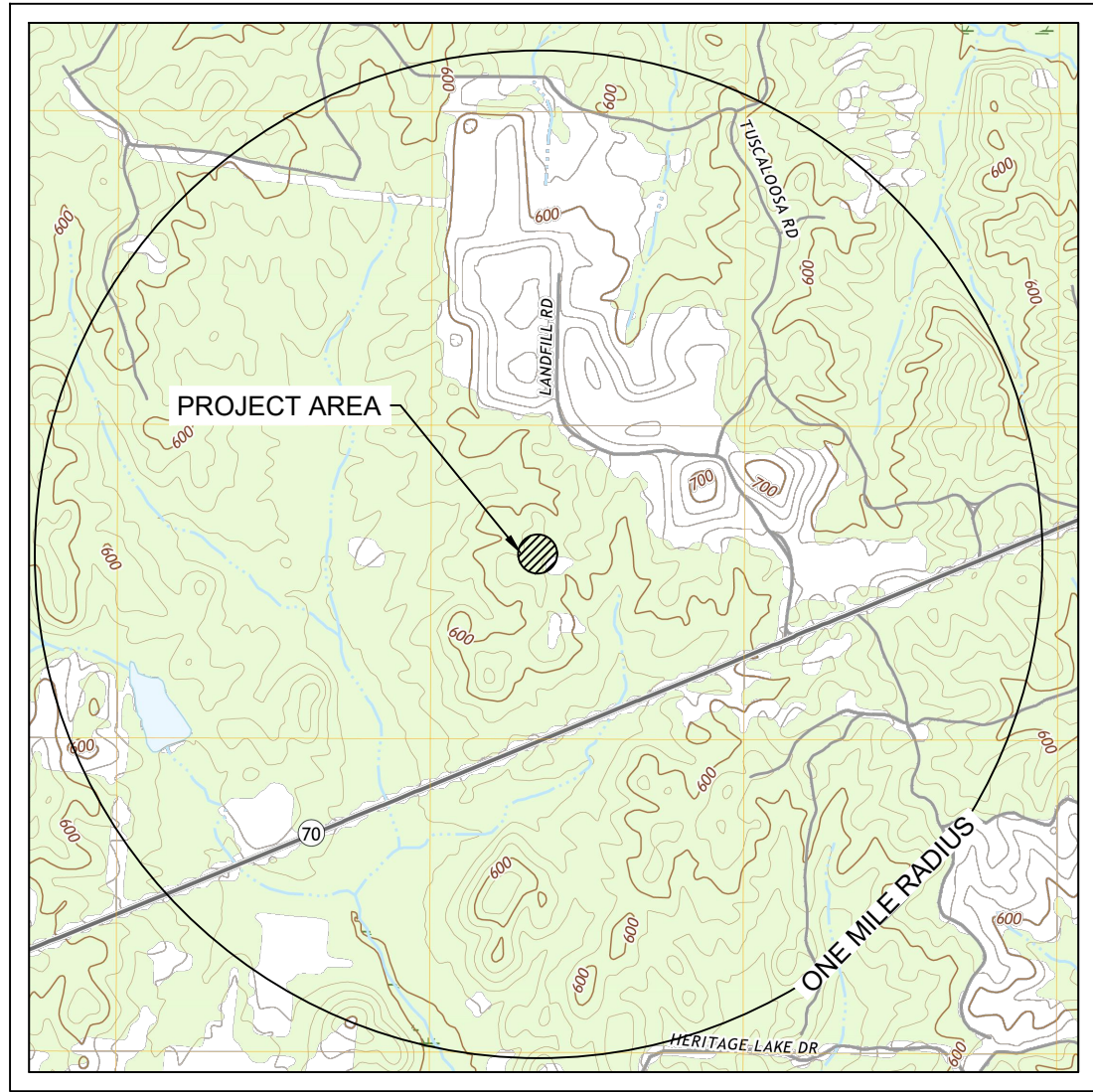
THE PROPOSED PROJECT IS LOCATED ALONG AL-70 IN CALERA, AL. THE SITE WILL DISTURB APPROXIMATELY 1.56 AC. THE PROJECT WILL INCLUDE CONSTRUCTION OF A SCALEHOUSE, PARKING, AND ASSOCIATED GRADING. THIS PROJECT HAS THE POTENTIAL TO PRODUCE SILTATION & NONPOINT SOURCE POLLUTANTS, THUS IN AN EFFORT TO EFFECTIVELY REDUCE THE POTENTIAL OF THESE POLLUTANTS, IMPLEMENTATION OF THIS CBMPP WILL BE REQUIRED. THIS CBMPP HAS BEEN DESIGNED AND WILL BE IMPLEMENTED TO REDUCE THE AMOUNT OF SEDIMENTATION DISCHARGED TO HALFWAY BRANCH AS A RESULT OF THE LAND DISTURBANCE ACTIVITIES.

THE SITE CURRENTLY DRAINS TO AN UNNAMED TRIBUTARY OF CAMP BRANCH WHICH EVENTUALLY DRAINS TO THE COOSA RIVER. THE CONSTRUCTION SITE IS NOT A PRIORITY CONSTRUCTION SITE. THIS PROJECT HAS THE POTENTIAL TO PRODUCE SILTATION, THUS IN AN EFFORT TO EFFECTIVELY REDUCE THE POTENTIAL OF THESE POLLUTANTS, IMPLEMENTATION OF THIS CBMPP WILL BE REQUIRED. THE SITE CURRENTLY CONSISTS OF GRADES BETWEEN 0% AND 30% SLOPES. AS EXPLAINED BELOW, A COMPREHENSIVE BEST MANAGEMENT PRACTICES PLAN HAS BEEN PREPARED AND IF PROPERLY IMPLEMENTED SHOULD GREATLY REDUCE THE AMOUNT OF SILT, SEDIMENT, AND POLLUTION THAT LEAVES THE PROJECT SITE. NO DISCHARGE OF PATHOGENS IS EXPECTED FROM THIS PROJECT.

SILT FENCE IS TO BE INSTALLED IN LOCATIONS AS SHOWN ON PLANS AROUND THE PERIMETER OF THE LAND DISTURBANCE. A CONSTRUCTION EXIT OF CRUSHED STONE IS TO BE PROVIDED AT THE PROJECT ENTRANCE/EXIT FOR THE REMOVAL OF MUD FROM THE CONSTRUCTION VEHICLES LEAVING THE SITE. DUST CONTROL MEASURES ARE TO BE USED TO CONTROL SURFACE AND AIR MOVEMENT OF DUST ON SITE. INLET PROTECTION WILL BE PROVIDED AT LOCATIONS OF CONCENTRATED FLOW TO PREVENT EROSION AT THOSE LOCATIONS. EROSION CONTROL MATTING WILL BE PLACED ON FILL SLOPES STEEPER THAN 2:1. SURFACE ROUGHENING & SLOPE MATTING/BLANKETS SHALL BE UTILIZED ON SLOPES TO PREVENT EROSION PROBLEMS. DISTURBED AREAS OF THE SITE ARE TO BE STABILIZED AS SOON AS CONSTRUCTION PHASES PERMIT.

BMP CONSTRUCTION IS TO BE COMPLETED IN STRICT ACCORDANCE WITH THE "ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL AND STORMWATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS", LATEST EDITION. BMP DEVICES SHALL BE ROUTINELY INSPECTED AND MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION.

VARIOUS EROSION CONTROL MEASURES HAVE BEEN DESIGNED TO ENSURE THAT THE RELEASE OF SEDIMENT FROM THE SITE IS MINIMIZED. ANY CHEMICAL STORAGE REQ'D FOR PROJECT SHALL BE IN ACCORDANCE WITH THE PRODUCT SPECIFIC PRACTICES NOTES ON THIS SHEET. NO OTHER CHEMICAL STORAGE IS ANTICIPATED FOR THIS PROJECT.



SHELBY CO. LANDFILL
SCALEHOUSE
USGS QUADRANGLE

1" = 2,000-FT

SECONDARY OPERATORS - THOSE UNDER DIRECT SUPERVISION OF PRIMARY OPERATOR

THE UNDERSIGNED HAVE BEEN PROVIDED A COPY OF THE APPROVED CBMP PLAN				
PRINTED NAME	ADDRESS	PHONE NUMBER	LOCATION OF DISTURBANCE	SIGNATURE

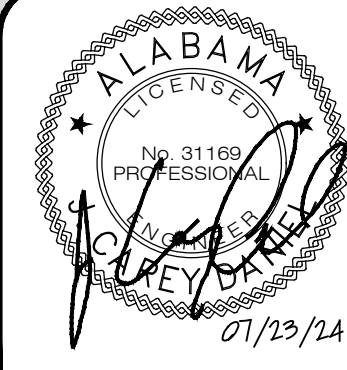
REVISIONS		DATE
NO.	DESCRIPTION	
0	ISSUE FOR BID	7/23/2024
1		
2		
3		
4		

CBMPP COVER SHEET & NOTES

SHELBY CO. LANDFILL SCALEHOUSE

SR 70
COLUMBIANA, AL
SHELBY CO. FACILITIES
COLUMBIANA, AL

GONZALEZ - STRENGTH & ASSOCIATES, INC.
CIVIL ENGINEERING - TRANSPORTATION ENGINEERING - LAND SURVEYING
LAND PLANNING - LANDSCAPE ARCHITECTURE
1550 WOODS OF RIVERCHASE DRIVE SUITE 200
COLUMBIANA, AL 36828
PHONE: (205) 942-2464
FAX: (205) 942-3033
www.Gonzalez-Strength.com



07/23/24

DWG NO.
C500 R 0
PROJECT
24-0098

ADEM NPDES GENERAL PERMIT NOTES:

(THESE NOTES ARE NOT ALL INCLUSIVE OF THE ADEM NPDES GENERAL PERMIT REQUIREMENTS. IT SHALL BE THE PERMITTEE'S RESPONSIBILITY TO ASSURE COMPLIANCE WITH ALL STORMWATER GENERAL PERMIT REQUIREMENTS.)

PART I Coverage Under This General Permit

A. Permit Coverage

This permit authorizes, subject to the conditions of this permit, discharges associated with construction activity that will result in land disturbance equal to or greater than one (1) acre or from construction activities involving less than one (1) acre and which are part of a common plan of development or sale equal to or greater than one (1) acre occurring on or before, and continuing after the effective date of this permit, except for discharges identified under Part I.C. of the permit.

B. Eligibility

1. Allowable Stormwater Discharges

This permit authorizes the following stormwater discharges:

- Stormwater associated with construction activities defined in Part I.A. of this permit;
- The following stormwater discharges have been determined by the Director to require coverage under this permit:
 - Sites, irrespective of size, whose stormwater discharges have a reasonable potential to be a significant contributor of pollutants to a water of the State, as determined by the Department;
 - Sites, irrespective of size, whose stormwater discharges have a reasonable potential to cause or contribute to a violation of an applicable Alabama water quality standard as determined by the Department.
- Discharges from construction support activities provided;
- The support activity is solely related to the construction site covered under this permit;
- The support activity is not an operation serving multiple unrelated construction projects and does not operate beyond the completion of the construction activity at the construction project it supports;
- The support activity is located in close proximity (two-mile radius) to the construction site covered under this permit, or as otherwise approved by the Department;
- Stormwater controls are implemented in accordance with Part III for discharges from the support activity area; and
- Pollutant discharges from support activity areas are minimized to the maximum extent practicable and do not pose a reasonable potential to exceed applicable water quality standards.

2. Allowable Non-Stormwater Discharges

This permit authorizes the following non-stormwater discharges provided the non-stormwater component of the discharge is in compliance with Part III.D.

- Discharges from fire-fighting activities;
- Fire hydrant flushings;
- Water used to wash vehicles and equipment where detergents are not used;
- Water used to control dust;
- Potable water including uncontaminated water line flushings not associated with hydrostatic testing;
- Routine external building wash down associated with construction that does not use detergents;
- Pavement wash waters where spills or leaks of toxic or hazardous materials have not occurred (unless all spilled material has been removed) and where detergents are not used. The operator is prohibited from directing pavement wash waters directly into any surface water, storm drain inlet, or stormwater conveyance, unless the conveyance is connected to a sediment basin, sediment trap, or similarly effective control;
- Uncontaminated air conditioning or compressor condensate associated with temporary office trailers and other similar buildings;
- Uncontaminated, non-turbid discharges of ground water or spring water;
- Foundation or footing drains where flows are not contaminated with process materials such as solvents; and
- Landscape irrigation.

C. Exempt Discharges

1. Coverage under this permit is not required for the following:

- Animal feeding operation (AFO) or concentrated animal feeding operation (CAFO) construction activity that has been granted NPDES registration coverage pursuant to Chapter 335-6-7;
 - Normal agricultural; and
 - Silvicultural activities.
2. Coverage under this permit is not required for discharges associated with minor land disturbing activities such as the following:
- Home gardens or individual home landscaping;
 - Home repairs and/or maintenance;
 - Fence installation or maintenance;
 - Directional boring, hand hole digging; and
 - Guardrail, shoulder, and minor improvements associated with roadway pavement resurfacing.

D. Prohibited Discharges

The following discharges associated with construction are not authorized by this permit:

- Stormwater discharges that are mixed with sources of non-stormwater unless such stormwater discharges are:
 - In compliance with a separate NPDES permit, or
 - Determined by the Department not to be a contributor of pollutants to waters of the State.
- Stormwater discharges currently covered under another NPDES permit;
- Discharges from coal/metallic mining, dry processing, wet processing, and areas associated with these activities;
- Wastewater from washout of concrete, unless managed by an appropriate control (Wastewater from Concrete Batch Plants are prohibited unless such discharges are authorized by and in compliance with a separate NPDES permit);
- Wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds, and other construction materials;
- Fuels, oils, or other pollutants used in vehicle and equipment operation and maintenance;
- Soaps or solvents used in vehicle and equipment washing;
- Discharges from dewatering activities, including discharges of ground water or accumulated stormwater from dewatering of trenches, excavations, foundations, vaults, or other similar points of accumulation, unless managed by appropriate

controls;

- Discharges to surface waters from sediment basins or impoundments, unless an outlet structure that withdraws water from the surface, unless infeasible, is utilized;
- Discharges where the turbidity of such discharge will cause or contribute to a substantial visible contrast with the natural appearance of the receiving water;
- Discharges where the turbidity of such discharge will cause or contribute to an increase in the turbidity of the receiving water by more than 50 NTUs above background. For the purposes of determining compliance with this limitation, background will be interpreted as the natural condition of the receiving water without the influence of man-made or man-induced causes. Turbidity levels caused by natural runoff will be included in establishing background levels;
- Discharges of any pollutant into any water for which a total maximum daily load (TMDL) has been finalized or approved by EPA unless the discharge is consistent with the TMDL;
- Discharges to waters listed on the most recently approved 303(d) list of impaired streams unless the discharge will not cause or contribute to the listed impairment; and
- Toxic or hazardous substances from a spill or release.

PART II Notice of Intent (NOI) Requirements (PART

D. Submittal of Documents

The Permittee must complete and submit the NOI electronically, using the Department's Alabama Environmental Permitting and Compliance System (AEPACS), unless the Permittee submits in writing valid justification as to why the electronic submittal process cannot be utilized and the Department approves in writing the utilization of hard copy submittals. The AEPACS can be accessed at the following link: <http://adem.alabama.gov/AEPACS>. Permit requests for initial issuance and modifications of the existing permit should all be submitted through the AEPACS system.

PART III Stormwater Pollution Prevention Requirements (PART

B. Provide Natural Riparian Buffers or Equivalent Sediment Controls

Natural riparian buffer requirements apply to all waters of the State adjacent to construction sites or contained within their overall project boundary. A 25-foot natural riparian buffer zone adjacent to all waters of the State at the construction site shall be preserved, to the maximum extent practicable, during construction activities at the site. The natural riparian buffer should be preserved between the top of stream bank and the disturbed construction area. The water quality buffer zone aids in the protection of waters of the State (e.g., perennial and intermittent streams, rivers, lakes, wetlands) located within or immediately adjacent to the boundaries of the project. Natural riparian buffers are not primary sediment control measures and should not be relied on as such. The natural riparian buffer requirement applies to new construction sites, or new additional acreage not previously covered by the initial permit.

1. Compliance Alternatives

- Provide and maintain a 25-foot undisturbed natural riparian buffer;
- If land disturbances are located 25 feet or farther from surface water, then compliance with this alternative has been achieved.
- Rehabilitation and enhancement of a natural riparian buffer is allowed, if necessary, for improvement for its effectiveness of protection of the waters of the State.
- Any preexisting structures (e.g., buildings, parking lots, roadways, utility lines, structures, impervious surfaces) are allowed in the natural riparian buffer; provided the Permittee retains and protects from disturbance any additional natural buffer area contained within the natural riparian buffer but outside the preexisting structures footprint.

- Provide and maintain an undisturbed natural riparian buffer that is less than 25 feet and is supplemented by additional erosion and sediment controls, which in combination achieves the sediment load reduction equivalent to a 25-foot undisturbed natural riparian buffer;
- If it is infeasible to provide and maintain an undisturbed natural riparian buffer of any size, the Permittee must implement erosion and sediment controls that achieve the sediment load reduction equivalent to a 25-foot undisturbed natural riparian buffer;
- All discharges from the area of earth disturbance to the natural riparian buffer must first be treated by erosion and sediment control on the site. Velocity dissipation devices should be used if necessary to prevent erosion caused by stormwater within the natural riparian buffer;
- All compliance alternatives must be documented in the CBMPP and comply with all requirements. The natural riparian buffer boundary should be indicated on the site plan;
- Compliance alternatives must be maintained throughout the duration of permit coverage; and
- All natural riparian buffer areas should be delineated and clearly marked off with flags, tape, or similar marking device.

- If there is no discharge of stormwater to waters of the State through the areas between the construction site and any waters of the State located within 25 feet of the construction site, compliance with this requirement is achieved;
- Where no natural riparian buffer exists due to preexisting development disturbances (e.g., buildings, parking lots, roadways, utility lines, structures, impervious surfaces) that occurred prior to the initiation of planning for the current development of the site, the Permittee is not required to comply with the requirements in this section, unless portions of the preexisting development will be removed;
- Where some natural riparian buffer exists but portions of the area within 25 feet of the waters of the State are occupied by preexisting development disturbances (e.g., buildings, parking lots, roadways, utility lines, structures, and impervious surfaces), the Permittee is required to comply with the requirements in this section. Only the portion of the buffer zone that contains the footprint of the existing "structure" is exempt from the natural riparian buffer. Activities necessary to

maintain uses are allowed provided that no additional vegetation is removed from the natural riparian buffer;

- For "linear construction projects" the Permittee is not required to comply with the requirements in this section if site constraints (e.g., limited right-of-way) prevent the Permittee from meeting any of the compliance alternatives provided that, to the extent practicable, disturbances within 25 feet of the water of the State are limited and/or supplemental erosion and sediment controls to treat stormwater discharges from earth disturbances within 25 feet of the waters of the State are provided. It must be documented in the CBMPP as to why compliance with this section is infeasible and describe any buffer width retained and/or supplemental erosion and sediment controls installed; and
- The following disturbances within 25 feet of a water of the State are exempt from the requirements in this Part:
 - Construction approved under a CWA Section 404 permit; or
 - Construction of a water-dependent structure or water access area (e.g., pier, boat ramp, seawall, bridge, drainage structure, trail, etc.)

C. Soil Stabilization

The Permittee should minimize, as feasible, the area disturbed to maintain the natural soil cover for stability. The Permittee must stabilize the exposed bare soil portions of the site:

- Implement and maintain stabilization measures (e.g., seeding protected by erosion controls until vegetation is established, sodding, mulching, erosion control blankets, hydromulch, gravel) that minimize erosion from exposed portions of the site.
- Temporary stabilization of disturbed areas must be initiated immediately whenever work toward project completion and final stabilization of any portion of the site has temporarily ceased on any portion of the site and will not resume for a period exceeding thirteen (13) calendar days.
- Final stabilization of disturbed areas must, at a minimum, be initiated immediately whenever any clearing, grading, excavating, or other earth disturbing activities have permanently ceased on any portion of the site.
- The requirement to initiate stabilization immediately is triggered as soon as you know that construction work on a portion of the site is temporarily ceased and will not resume for more than thirteen (13) calendar days, or as soon as you know that construction work has permanently ceased. In the context of this provision, "immediately" means as soon as practicable, but no later than the end of the next business day, following the day when the construction activities have temporarily or permanently ceased.
- Both temporary and permanent vegetation shall be completed as provided by the guidance in the Alabama Handbook.

D. Pollution Prevention Measures

The Permittee must design, install, implement, and maintain effective pollution prevention measures to minimize the discharge of pollutants. At a minimum, such measures must be designed, installed, implemented, and maintained to:

- Provide an effective means of minimizing the discharge of pollutants from equipment and vehicle washing, wheel wash water, concrete washout, washing applicators and/or containers used for stucco, paint, concrete, or other compounds/materials and other wash waters;
- Wash waters must be treated in a sediment basin or alternative control (e.g., sediment trap, filtration device, filter bags, or similar effective controls) that provides equivalent or better treatment prior to discharge;
- Liquid waste shall not be directly discharged into storm sewers;
- Washout and cleanout activities should be located as far away as possible from surface waters, natural buffer areas, stormwater inlets, and conveyances; and
- For storage of soaps, detergents, or solvents, provide either (1) cover (e.g., plastic sheeting or temporary roofs) to minimize exposure of these detergents to precipitation and to stormwater or (2) a similarly effective means designed to minimize the discharge of pollutants from these areas.

- Provide an effective means of minimizing the exposure of building materials, building products, construction wastes, trash, landscape materials, fertilizers, pesticides, herbicides, detergents, sanitary waste, and other materials present on the site to precipitation and to stormwater;
- Provide either (1) cover (e.g., plastic sheeting or temporary roofs) to minimize exposure of these detergents to precipitation and to stormwater or (2) a similarly effective means designed to minimize the discharge of pollutants from these areas;
- Provide waste containers (e.g., dumpster, trash receptacle) of sufficient size and number to contain construction wastes;
- Locate waste containers as far away as possible from waters of the State and stormwater inlets or conveyances so that stormwater coming into contact with these activities cannot reach water of the State;
- For sanitary waste, position portable toilets so that they are on level ground and are located as far away as possible from waters of the State and stormwater inlets or conveyances; and
- Comply with all application and disposal requirements included on the fertilizer, pesticide, herbicide, or detergent label.

- Provide an effective means of minimizing the discharge of pollutants caused by spills and leaks from, including but not limited to, vehicles, mechanical equipment, chemical storage, and refueling activities;
- Locating activities away from waters of the State and stormwater inlets or conveyances so that stormwater coming into contact with these activities cannot reach water of the State;
- Providing secondary containment and cover where appropriate;
- Ensure adequate supplies are available at all times to handle spills, leaks, and disposal of used liquids. Have a spill kit available on site and ensure personnel are available and trained to respond expeditiously in the event of a leak or spill; and
- Clean up spills or contaminated surfaces immediately (do not clean contaminated surfaces by hosing the area down) and eliminate the source of the spill to prevent a discharge or a continuation of an ongoing discharge.

- Apply treatment chemicals at the site only where treated stormwater is directed to a sediment control (e.g., sediment basin,

perimeter control) that allows for on-site particle settlement before final discharge.

E. Construction Best Management Practices Plan (CBMPP) (PART

5. Maintain an Updated CBMPP

- The CBMPP shall be updated as necessary to address changes in the construction activity, site weather patterns, new TMDLs finalized or approved by EPA, new 303(d) listings approved by EPA, or manufacturer specifications for specific control technologies;
- The CBMPP shall be amended if inspections or investigations by site staff or by local, state, or federal officials determine that the existing sediment control measures, erosion control measures, or other site management practices are ineffective or do not meet the requirements of this permit. All necessary modifications to the CBMPP shall be made within seven (7) calendar days following notification of the inspection unless granted an extension of time by the Department;
- If existing sediment control measures, erosion control measures, or other site management practices prove ineffective in protecting water quality or need to be modified; or if additional sediment control measures, erosion control measures, or other site management practices are necessary to meet the requirements of this permit, implementation shall be completed as soon as possible, but not to exceed five (5) days of the observation or site inspection unless prevented by unsafe weather conditions. If unsafe weather conditions are present, they should be documented. If implementation before the next storm event is impracticable, then new land disturbance activities must cease until the modified or additional controls can be implemented; and
- A copy of the CBMPP shall be maintained at the site during normal operating hours as defined by Part V of this permit when regulated land disturbing activities are occurring.

F. Spill Prevention, Control, and Management

- The Permittee shall prepare, implement, and maintain a Spill Prevention, Control and Countermeasures (SPCC) Plan in accordance with 40 CFR Part 112 and ADEM Admin Code r.335-6-6-.12(r) for all applicable onsite petroleum storage tanks;
- The Permittee shall prepare, implement, and maintain a SPCC Plan in accordance with ADEM Admin Code r.335-6-6-.12(r) for any stored pollutant(s) that may, if spilled, be reasonably expected to enter a water of the state or the collection system for a publicly or privately owned treatment works;
- The SPCC Plan(s) shall be maintained as a separate document or as part of the CBMPP Plan required in Part III.E.
- The Permittee shall implement appropriate structural and/or non-structural spill prevention, control, and/or management sufficient to prevent any spills of pollutants from entering a water of the State or a publicly or privately owned treatment works. The plan(s) must be consistent with the requirements of 40 CFR Part 112 and/or ADEM Admin Code r.335-6-6-.12(r). Any containment system used to implement this requirement shall be constructed of materials compatible with the substance(s) contained and of materials which shall prevent the contamination of groundwater and shall be capable of retaining 110 percent of the volume of the largest container of pollutants for which the containment system is provided;
- The Permittee shall maintain onsite or have readily available sufficient oil & grease absorbing material and flotation booms to contain and clean-up leak or chemical spills and leaks; and
- Soil contaminated by paint or chemical spills, oil spills, etc. must be immediately cleaned up, remediated, or be removed and disposed of in a Department approved manner.

- Discharges of toxic or hazardous substances from a spill to other release or prohibited, consistent with Part I.D.
 - Where a leak, spill, or other release containing a hazardous substance or oil in an amount equal to or in excess of a reportable quantity established under either 40 CFR 110, 40 CFR 117, or 40 CFR 302 occurs during a 24-hour period, the National Response Center (NRC) must be notified at (800) 424-8802, in accordance with the requirements of 40 CFR 110, 40 CFR 117, or 40 CFR 302 as soon as the Permittee has knowledge of the release; and
 - Within five (5) calendar days of knowledge of the release, the Permittee must provide a description of the release, the circumstances leading to the release, and the date of the release.

- At least one onsite employee shall be certified as a Qualified Credentialed Inspector (QCI) by completing an initial training and annual refresher through an ADEM-approved Qualified Credentialed Inspector Program conducted by a cooperating training entity.

- The QCI must be approved by the Department prior to use and provide training in the following areas:
 - The applicable requirements of the Alabama NPDES rules;
 - The requirements of this permit;
 - The evaluation of construction sites to ensure that erosion controls and sediment controls designed and certified by a QCP detailed in a site-specific CBMPP are effectively implemented and maintained;
 - The evaluation of conveyance structures, receiving waters and adjacent impacted offsite areas to ensure the protection of water quality and compliance with the requirements of this permit; and
 - The general operation of a turbidity meter or similar device intended for the measurement of turbidity.
- Each individual holding a QCI Certification need not be on-site continuously and they may conduct site inspections at multiple sites permitted by them or their employer.
- Each individual holding QCI certification shall obtain annual certification of satisfactory completion of formal refresher education or training regarding general erosion controls and sediment controls, the requirements of this permit, and the general operation of a turbidity meter or similar device intended for the measurement of turbidity. The refresher training requirements, including but not limited to, appropriate curricula, course content, course length, and any participant testing, shall be subject to acceptance by the Director prior to use.

H. Inspection Requirements

- Pre-Construction Observations
 - A pre-construction site inspection shall be conducted prior the placement of any BMPs, or the commencement of land disturbing activities.
 - Pre-construction site inspection shall consist of a complete and comprehensive inspection of the entire proposed construction site including all proposed areas of land disturbance, proposed areas used for storage of materials that may be exposed to precipitation, affected ditches, and other stormwater conveyances, as well as all proposed outfalls, receiving waters and stream banks to determine if there are pre-existing areas of concern.
 - Pre-construction inspections shall be conducted by the QCP, or by a qualified person under the direct supervision of a QCP;
 - The inspection shall be documented and made available to the Department upon request;
 - Pre-construction inspection shall include dated electronic photographic documentation of all areas described in paragraph (b) above; and
 - The Permittee shall maintain record of the pre-construction site inspection pursuant to Part IV.K.
- Daily Observations
 - Each day there is activity at the site, the Permittee shall visually observe that portion of the construction project where active disturbance, work, or construction occurred to note any rainfall measurements occurring since the previous observation and any apparent BMP deficiencies in the area of active disturbance;
 - Such daily observations may be performed by appropriate site personnel; and
 - The Permittee shall maintain a log of all daily observations and record in such log any rainfall measurements and BMP deficiencies observed.
- Site Inspections
 - Site inspections shall be performed by a QCI, QCP, or a qualified person under the direct supervision of a QCP;
 - A site inspection shall consist of a complete and comprehensive observation of the entire construction site including all areas of land disturbance, areas used for storage of materials that are exposed to precipitation, equipment storage and maintenance areas, affected ditches and other stormwater conveyances, as well as all outfalls, receiving waters, and stream banks to determine if, and ensure that:
 - Effective erosion controls and sediment controls have been fully implemented and maintained in accordance with this permit, the site CBMPP, and the Alabama Handbook;
 - Pollutant discharges are being prevented/minimized; and
 - Discharges do not result in a contravention of applicable State water quality standards for the receiving stream(s) or other waters impacted or affected by the Permittee.
 - For non-linear projects, a site inspection shall be performed once each month and after any qualifying precipitation event since the last inspection, commencing as promptly as possible, but no later than 24-hours after resuming or continuing active construction or disturbance and completed no later than 72-hours following the qualifying precipitation event;
 - For linear projects, a site inspection shall be performed at least once a month and after any qualifying precipitation event since the last inspection, beginning as promptly as possible, but no later than 24-hours after resuming or continuing active construction or disturbance and completed no later than five (5) days after the qualifying precipitation event, on areas of active construction and/or where perennial vegetation has not been fully established, or meeting the definition of final stabilization;
 - A site inspection shall also be performed as often as is necessary until any poorly functioning erosion controls or sediment controls, non-compliant discharges, or any other deficiencies observed during a prior inspection are corrected and documented as being in compliance with the requirements of this permit;
 - On all active disturbance, dredging, excavation, or construction undertaken or located within the banks of a waterbody, including but not limited to, equipment/vehicle crossings, pipelines, or other transmission line installation, conveyor structure installation, and waterbody relocation, streambank stabilization, or other alterations, a site inspection shall be performed at least once a week and as often as is necessary until the disturbance/activity impacting the waterbody is complete and reclamation or effective stormwater quality remediation is achieved;
 - The inspection shall be recorded in a written format acceptable to the Department. The inspection record shall include:
 - The site name and location, date and entry/exit time, outfall identification(s), date, time and exact place of any turbidity sampling performed;
 - The name(s) of person(s) who performed the inspection and/or obtained any turbidity samples or measurements;
 - The analytical results of any samples or measurements performed;
 - A description of any sampling and analytical techniques or methods used, including source of method and method number;
 - Weather conditions at the time of the inspection;
 - Description of any discharges of sediment or other pollutants from the site;
 - Locations of discharges of sediment or other pollutants from the site;
 - Locations of BMPs that need repair, replacement and/or maintenance;
 - Locations of BMPs that failed to operate as designed;
 - Locations where BMPs required by the CBMPP are not installed or installed in a manner inconsistent with the CBMPP; and
 - Locations where additional BMPs are needed that did not exist at the time of the inspection. This requirement is applicable only to site inspections performed by a QCP or qualified persons under the direct supervision of a QCP.
 - Results of all required inspections shall be available for inspection no later than 15 days following the date of the inspection, monitoring, or sampling; and
 - Reports shall be legible and bear an original signature or in the case of electronic reports, an electronic signature.

- CBMPP Evaluations
 - The QCP shall perform an onsite evaluation of all erosion and sediment controls being implemented for adequacy and consistency with site conditions.
 - The CBMPP evaluation shall be performed as often as necessary until poorly functioning or damaged erosion controls or sediment controls are corrected and, at a minimum, once every three (3) months for a priority construction site or once every six (6) months for non-priority construction site;
 - If, based on the CBMPP evaluation, the QCP identifies any needed modifications or additions to erosion and sediment controls, the CBMPP shall be updated in accordance with Part III.E.4; and
 - The Permittee shall maintain appropriate documentation of the CBMPP evaluation.
- Corrective Action
 - Any poorly functioning erosion controls or sediment controls, non-compliant discharges, or any other deficiencies observed during daily observations or site inspections required under Part III.H, shall be corrected as soon as possible, but not to exceed five (5) days of the observation or site inspection unless prevented by unsafe weather conditions. If unsafe weather conditions are present, they should be documented.
 - In the event of a breach of a sediment basin/pond temporary containment measures shall be taken within 24 hours after the inspection. Permanent corrective measures shall be implemented within five (5) days of the inspection. However, if permanent corrective measures cannot be implemented within the timeframes provided herein the Permittee shall notify the Department; and
 - The operator shall promptly take all reasonable steps to remove, to the maximum extent practical, pollutants deposited offsite or in any waterbody or stormwater conveyance structure

J. Suspension of Monitoring

- Suspension of applicable monitoring and inspection requirements for phased projects or developments may be granted provided:
- The Department is notified in writing at least thirty (30) days prior to the requested suspension;
 - The Permittee and the QCP certify in the request that all disturbance has been graded, stabilized, and/or fully vegetated or otherwise permanently covered, and that appropriate, effective steps have been and will be taken by the Permittee to ensure compliance with the requirements of this permit and commit that these measures will remain continually effective until the permit is properly terminated;
 - The request should be accompanied by a construction stormwater inspection report confirming permanent stabilization of all previously disturbed areas, including material storage areas, and associated support activities. In addition, photo documentation may be submitted for confirmation purposes; and
 - The Permittee notifies the Department in writing within fifteen (15) days prior to resumption of disturbance or commencement of the next phase of development and the Permittee complies with the requirements of this Permit prior to commencement of additional disturbance.

K. Precipitation Measurement

- The Permittee shall measure and record all precipitation occurring at the construction site (including rainfall and snowfall). Precipitation measurements must be representative of the Permittee's site. Records shall be maintained and available for inspection.
- Precipitation measurements should be read and recorded during normal operating hours, even if no precipitation occurs. To facilitate determination of a qualifying precipitation event, the measuring device or method should have a scale that is readable to 0.5 inches or smaller unit.
- Recording of rainfall outside of normal operating hours may be read and recorded on the next business day and noted as "accumulated." If the outside of normal operating hours accumulation is greater than 0.75 inches, a qualifying rainfall event inspection must occur regardless of whether that accumulation occurred over 24 hours, as described in Part III.H.
- Precipitation measurements shall be taken using one or more of the following:
 - Continuous recorders,
 - Daily readings of an onsite rain gauge,
 - Daily readings of an offsite precipitation gauge located adjacent to or in close proximity (for non-linear projects a maximum one (1) mile distance) to the facility, or
 - Other measurement devices acceptable to the Department (e.g., online resources).

(GENERAL PERMIT REQUIREMENTS CONT'D C502)

GENERAL PERMIT REQUIREMENTS

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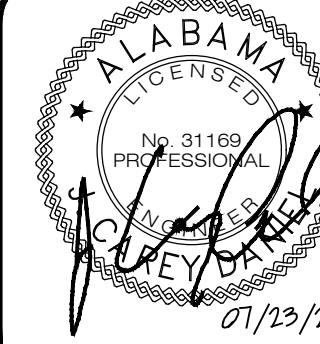
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DWG.NO. C501 R.0 PROJECT 24-0098

ADEM NPDES GENERAL PERMIT NOTES (CONT'D):

(THESE NOTES ARE NOT ALL INCLUSIVE OF THE ADEM NPDES GENERAL PERMIT REQUIREMENTS. IT SHALL BE THE PERMITTEE'S RESPONSIBILITY TO ASSURE COMPLIANCE WITH ALL STORMWATER GENERAL PERMIT REQUIREMENTS.)

L. Impaired Waters and Total Maximum Daily Load (TMDL) Waters

1. Permittees discharging from construction sites into waters included on the latest EPA Approved §303(d) List or designated by the Department as impaired.

- (a) The Permittee must determine whether the discharge from any part of the construction site contributes directly or indirectly to a waterbody that is included on the latest EPA Approved §303(d) List or designated by the Department as impaired.
- (b) If the construction site discharges either directly or indirectly to a waterbody included on the latest EPA Approved §303(d) List or designated by the Department as impaired, then the CBMPP must detail the BMPs that are being utilized to control discharges of pollutants of concern associated with the impairment of the waterbody.
- (c) The Permittee must demonstrate the discharges, as controlled by the Permittee, and in conjunction with the implementation of the CBMPP, do not cause or contribute to the impairment of the waterbody.
- (d) If during this permit cycle a new EPA Approved §303(d) List is published, or Department designation, includes any waterbody into which the construction site discharges, the Permittee and QCP must review the CBMPP and the site to determine if existing BMPs are sufficient and discharges do not cause or contribute to the impairment of the waterbody. If existing BMPs are not sufficient to achieve this demonstration, the Permittee must, within sixty (60) days following the publication of the latest final §303(d) List, Department designation, or the effective date of this permit, submit a revised CBMPP detailing new or modified BMPs. The CBMPP must be revised as directed by the Department and the new or modified BMPs must be implemented within ninety (90) days from the publication of the latest final §303(d) list or Department designation.
2. Permittees discharging from construction sites into waters with EPA-Approved TMDLs and/or EPA-Established TMDLs
- (a) The Permittee must determine whether its construction site discharges to a waterbody for which a TMDL has been established or approved by EPA.
- (b) If a construction site discharges into a water body with an EPA approved or established TMDL, then the CBMPP must include BMPs targeted to control the discharges of pollutants of concern and to meet the assumptions and requirements Page 16 of 26 of the TMDL. If additional BMPs will be necessary to meet the requirements of the TMDL, the CBMPP must include a schedule for installation and/or implementation of such BMPs.
- (c) If, during this permit cycle, a TMDL is approved by EPA or a TMDL is established by EPA for any waterbody into which a construction site discharges, the Permittee must review the applicable TMDL to see if it includes requirements for control of storm water discharges from the construction site.
- (d) If it is found that the Permittee must implement specific allocations of the TMDL, it must assess whether the assumptions and requirements of the TMDL are being met through implementation of existing BMPs or if additional BMPs are necessary. The CBMPP must include BMPs targeted to meet the assumptions and requirements of the TMDL.
- If existing BMPs are not sufficient, the Permittee must, within sixty (60) days following the approval or establishment of the TMDL by EPA, submit a revised CBMPP detailing new or modified BMPs to be utilized along with a schedule of installation and/or implementation of such BMPs. Any new or modified BMPs must be implemented within ninety (90) days, unless an alternate date is approved by the Department, from the establishment or approval of the TMDL by EPA.
- PART IV Standard and General Permit Conditions (PART)**
- A. Duty to Comply**
1. The Permittee must comply with all terms and conditions of this permit. Any permit noncompliance constitutes a violation of the AWPCCA and the FWPCA and is grounds for: enforcement action, termination, or suspension of coverage under this permit; denial of a permit renewal application; a requirement that the Permittee submit an application for an individual NPDES permit.
2. For any violation(s) of this Permit, the Permittee may be subject to a civil penalty as authorized by the AWPCCA, the FWPCA, and Code of Alabama 1975, §§22-22A-1 et. seq., as amended, and/or a criminal penalty as authorized by Code of Alabama 1975, §22-22-1 et. seq., as amended.
3. The discharge of a pollutant from a source not specifically identified in the NOI to be covered under this Permit and not specifically included in the description of an outfall (where applicable) in this permit is not authorized and shall constitute noncompliance with this permit.
4. Nothing in this Permit shall be construed to preclude or negate the Permittee's responsibility or liability to apply for, obtain, or comply with other ADEM, federal, state, or local government permits, certifications, licenses, or other approvals.
- B. Duty to Reapply**
1. The Permittee authorized to discharge under this General Permit, who wishes to continue to discharge upon the expiration of this permit, shall submit a NOI to be covered by the reissued General Permit. Such NOI shall be submitted at least 30 days prior to the expiration date of this General Permit.
2. Failure of the Permittee to submit a complete NOI for reauthorization under this permit at least 30 days prior to the permit's expiration will void the automatic continuation of the authorization to discharge under this permit as provided by ADEM Admin. Code r. 335-6-6-.06. Should the permit not be reissued for any reason prior to its expiration date, Permittees who failed to meet the 30-day submittal deadline will be illegally discharging without a permit after the expiration date of the permit.
- C. Need to Halt or Reduce Activity Not a Defense**
- It shall not be a defense for the Permittee in an enforcement action that it does not have been necessary to halt or reduce construction activities in order to maintain compliance with the conditions of the permit.
- D. Duty to Mitigate**
- The Permittee shall take all reasonable steps to mitigate or prevent any violation of the permit or to minimize or prevent any adverse impact of any permit violation.
- E. Proper Operation and Maintenance**
- The Permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the Permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the

- operation of backup or auxiliary facilities only when necessary to achieve compliance with the conditions of this permit.
- F. Permit Modification, Revocation and Reissuance, Suspension, and Termination**
1. During the term of this General Permit the Director may, for cause, and subject to the public notice procedure of ADEM Administrative Code r. 335-6-21, modify or revoke and reissue this General Permit. The causes for this action include the causes listed below:
- (a) When the Director receives any information that was not available at the time of permit issuance and that would have justified the application of different permit conditions at the time of issuance;
- (b) When the standards or regulations on which the permit was based have been changed by promulgation of amended standards or regulations or by judicial decision are the permit was issued;
- (c) Upon failure of the state to notify, as required by Section 402(b)(3) of the FWPCA, another state whose waters may be affected by a discharge;
- (d) When the level of discharge of any pollutant which is not limited in the permit exceeds the level which can be achieved by the technology based treatment requirements appropriate to the discharge under 40CFR 125.3(c)(1994);
- (e) To correct technical mistakes, such as errors in calculations, or mistaken interpretations of the law made in determining permit conditions;
- (f) When the permit limitations are found not to be protective of water quality standards; or
- (g) For any applicable cause set forth in 40 CFR Sections 122.61, 122.62, 122.63, and 122.64 (1994).
2. Subject to the public notice procedures of rule 335-6-.21, the Director may terminate this General Permit during its term for any of the causes for modification listed in ADEM Admin Code r. 335-6-6-.23(7)(a).
3. The Director may terminate coverage of a discharge under this general permit for cause. Cause shall include but not be limited to noncompliance with Department rules; or a finding that the general permit does not control with wastewater discharge sufficiently to protect water quality or comply with treatment based limits applicable to the discharge.
4. Any person may petition the Director for withdrawal of this General Permit authority from a discharger. The Director shall consider the information submitted by the petitioner and any other information he may be aware of and may obtain additional information from the discharger and through inspections by Department staff and shall decide if coverage should be withdrawn. The petitioner shall be informed of the Director's decision and shall be provided a summary of the information considered.
- G. Property Rights**
- This permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to persons or property or invasion of other private rights, or any infringement of federal, state, or local laws or regulations, nor does it authorize or approve the construction of any physical structures or facilities or the undertaking of any work in any waters of the state or of the United States.
- H. Duty to Provide Information**
1. The Permittee shall furnish to the Director, within a reasonable time, any information which the Director may request to determine whether cause exists for modifying, revoking and re-issuing, suspending, or terminating this permit or to determine compliance with this Permit. The Permittee shall also furnish to the Director upon request, copies of records required to be kept by this Permit.
2. The Permittee shall inform the Director in writing of any change in the Permittee's mailing address or telephone number or in the Permittee's designation of a facility contact or officer having the authority and responsibility to prevent and abate violations of the AWPCCA, the Department's rules and the terms and conditions of this permit no later than ten (10) days after such change. Upon request of the Director, the Permittee shall furnish an update of any information provided in the NOI.
3. If the Permittee becomes aware that it failed to submit any relevant facts in the NOI, or submitted incorrect information in the NOI, or in any report to the Director, it shall promptly submit such facts or information with a written explanation for the mistake and/or omission.
4. All information and/or documents required to be submitted to the Department by this general permit shall be submitted via the AEPACS, which can be accessed at the following link, <http://adem.alabama.gov/AEPACS>, or delivered to the following address: Alabama Department of Environmental Management Water Division, Stormwater Management Branch, Post Office Box 301463, Montgomery, Alabama 36130-1463, or 1400 Coliseum Boulevard, 36110-2400, Montgomery, Alabama.
- I. Inspection and Entry**
- The Permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law to:
1. Enter upon the Permittee's premises where a regulated activity is located or conducted, or where records must be kept under the conditions of this Permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Permit;
3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Permit, and
4. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the AWPCCA, any activities, substances or parameters at any location.
- J. Noncompliance Notification**
1. The Permittee must notify the Department if, for any reason, the Permittee's discharge:
- (a) Potentially threatens human health or welfare;
- (b) Threatens fish or aquatic life;
- (c) Causes an in-stream water quality criterion as stated in ADEM Admin. Code Ch. 335-6-10 to be exceeded;
- (d) Does not comply with an applicable toxic pollutant effluent standard or prohibition established under Section 307(a) of the FWPCA, 33 U.S.C. §1317(a); or
- (e) Contains a quantity of a hazardous substance which has been determined may be harmful to the public health or welfare under Section 311(b)(4) of the FWPCA, 33 U.S.C. §1321(b)(4).
2. The Permittee shall orally report the occurrences, describing the circumstances and potential effects of such discharge to the Director no later than 24-hours after the Permittee becomes aware of the occurrence of such discharge. In addition to the oral report, the Permittee shall submit to the Director a written report as provided in Part IV.J.3 below, no later than five (5) days after becoming aware of the occurrence of such discharge.

3. The written report shall be in a format acceptable to the Department and shall include:
- (a) A description of the noncompliant event, its cause, if known, and location;
- (b) The period of noncompliance, including exact dates and times or, if not corrected, the anticipated time the noncompliance is expected to continue; and
- (c) A description of the steps taken and/or being taken to reduce or eliminate the noncomplying discharge and to prevent its recurrence.
- K. Retention of Records**
1. The Permittee shall retain records of all inspection records, monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by the permit, and records of all data used to complete such reports, for a period of at least three (3) years from the date of the inspection, sample measurement, or report. This period may be extended by request of the Director at any time. If litigation or other enforcement action, under the AWPCCA and/or the FWPCA, is ongoing which involves any of these records, the records shall be kept until the litigation is resolved.
2. All records required to be kept for a period of three (3) years shall be kept at the permitted facility or an alternate location identified to the Department in writing and shall be available for inspection upon request.
- L. Signatory Requirements**
- The NOI and all reports or information submitted to the Director shall be signed and certified according to the requirement of ADEM Admin Code r. 335-6-6-.09. Where required by this Permit, documents will also be signed by a QCP or QCI.
- M. Transfers**
- This Permit may not be transferred without notice to the Director and subsequent modification or revocation and reissuance of this Permit. In the case of a change in name, ownership or control of the Permittee's premises, a request for permit modification in a format acceptable to the Director is required within 15 days prior to the change occurring.
- N. Bypass**
- Any bypass of erosion controls, sediment controls, or any other stormwater management/treatment controls specified in the CBMPP is prohibited except as provided by ADEM Admin Code r. 335-6-6-.12(m).
- O. Upset**
1. Effect of an Upset. An upset constitutes an affirmative defense to an action brought for noncompliance with technology based permit limitation if the requirements of subparagraph 335-6-6-.12(n)2. are met.
2. Conditions Necessary for Demonstration of an Upset. A Permittee who wishes to establish the affirmative defense of an upset shall demonstrate through properly signed, contemporaneous operating logs, or other relevant evidence that:
- (a) An upset occurred and that the Permittee can identify the specific cause(s) of the upset;
- (b) The treatment facility was at the time being properly operated;
- (c) The Permittee submitted notice of the upset as required in subparagraph 335-6-6-.12(j)6.; and
- (d) The Permittee complied with any remedial measures required under paragraph 335-6-6-.12(d).
3. Burden of Proof. In any enforcement proceeding the Permittee seeking to establish the occurrence of an upset has the burden of proof.
- P. Severability**
- The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.
- Q. Issuance of an Individual Permit**
- The Director may require the Permittee to obtain an individual permit for discharges covered by this permit in accordance with ADEM Admin. Code r. 335-6-6-.23(9).
- R. Request for Individual Permit by General Permit Holder**
1. Any person covered by this General Permit may apply for termination of coverage by applying for an individual NPDES permit.
2. A permit application submitted voluntarily or at the direction of the Director for the purpose of termination of coverage by this General Permit shall be processed in accordance with the rules found in ADEM Admin. Code 335-6-6 applicable to individual permits.
- S. Termination of Coverage**
1. The Director may suspend or terminate coverage under this permit for cause without the consent of the Permittee. Cause shall include, but not be limited to, noncompliance with this permit or the applicable requirements of Department rules, or a finding that this permit does not control the stormwater discharge sufficiently to protect water quality.
2. Voluntary Notice of Termination – Initiated by Permittee
- The Permittee must submit a Notice of Termination (NOT) request electronically, using the Department's AEPACS at <http://adem.alabama.gov/AEPACS>, within thirty (30) days of one of the following conditions:
- (a) Final stabilization as defined in Part V has been achieved on all portions of the site;
- (b) Another operator has assumed control over all areas of the site that have not achieved final stabilization and the new operator has submitted an NOI for coverage under this permit; or
- (c) Coverage under an individual permit or alternative general permit has been obtained.
3. Content of the Voluntary Notice of Termination
- (a) The Permittee name, permit number, and location of the site;
- (b) Certification by the Permittee and the QCP that all construction activity covered by this permit has been completed, all temporary BMPs have been removed and final stabilization has been achieved; or
- (c) Identification, including complete contact information, of the person that has assumed legal or operational control over the construction site.
- (i) Loss of operational control does not relieve the operator from liability and responsibility for compliance with the provisions of this permit until the complete and correct request for termination is received by the Department.
- (ii) Sale or transfer of operational responsibility for the site by the operator prior to the succeeding operator obtaining permit coverage required by this chapter does not relieve the operator from the responsibility to comply with the requirements of this permit.
- T. Facility Identification**
- The Permittee shall post and maintain sign(s) at the front gate/entrance, and if utility installation, where project crosses paved county, State, or federal highways/roads, and/or at other easily accessible location(s) to adequately identify the site prior to commencement of and during NPDES construction until permit coverage is

- properly terminated. Such sign shall be legible and display the name of the Permittee, "ADEM NPDES ALR10" followed by the four-digit NPDES permit number, facility or project name, and other descriptive information deemed appropriate by the Permittee.
- U. Schedule of Compliance**
- The Permittee shall achieve compliance with the requirements of this permit on the effective date of coverage under this permit.
- V. Discharge of Wastewater Generated by Others**
- The discharge of wastewater generated by any process, facility, or by any other means not under the operational control of the Permittee or not identified in the application for this permit or not identified specifically in the description of an outfall in this permit is not authorized by this permit except as allowed by Part I.
- W. Compliance with Water Quality Standards and Other Provisions**
1. On the basis of the Permittee's application, plans, or other available information, the Department has determined that compliance with the terms and conditions of this Permit will assure compliance with applicable water quality standards. However, this Permit does not relieve the Permittee from compliance with applicable State water quality standards established in ADEM Admin. Code Ch. 335-6-10, and does not preclude the Department from taking action as appropriate to address the potential for contravention of applicable State water quality standards which could result from discharges of pollutants from the permitted facility.
2. Compliance with Permit terms and conditions notwithstanding, if the Permittee's discharge(s) cause(s) or contribute(s) to a condition in contravention of State water quality standards, the Department may require abatement action to be taken by the Permittee, modify the Permit pursuant to the Department's rules and regulations, or both.
3. If the Department determines, on the basis of any investigation, inspection, or sampling, that a modification of this Permit is necessary to assure maintenance of water quality standards or compliance with other provisions of the AWPCCA or FWPCA, the Department may require such modification and, in cases of emergency, the Director may prohibit the noticed act until the Permit has been modified.
- X. Civil and Criminal Liability**
1. Tampering: Any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained or performed under this Permit shall, upon conviction, be subject to penalties and/or imprisonment as provided by the AWPCCA and/or the AEMA.
2. False Statements: Any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this Permit, including monitoring reports or reports of compliance or noncompliance shall, upon conviction, be punished as provided by applicable State and federal law.
3. Permit Enforcement: This NPDES Permit is a Permit for the purpose of the AWPCCA, the AEMA, and the FWPCA, and as such all terms, conditions, or limitations of this Permit are enforceable under State and federal law.
4. Relief From Liability: Except as provided in Part IV.M. (Bypass) and Part IV.N. (Upset), nothing in this Permit shall be construed to relieve the Permittee of civil or criminal liability under the AWPCCA, AEMA, or FWPCA for noncompliance with any term or condition of this Permit.
- Y. Oil and Hazardous Substance Liability**
- Nothing in this Permit shall be construed to preclude the institution of any legal action or relieve the Permittee from any responsibilities, liabilities, or penalties to which the Permittee is or may be subject to under Section 311 of the FWPCA, 33 U.S.C. §1321.

CBMPP NOTES

1. THE CONTRACTOR SHALL OBSERVE THE PROJECT SEQUENCE SHOWN ON THE PLANS. THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO INSURE THAT LAND STRIPPED OF ITS NATURAL COVER IS EXPOSED THE MINIMUM AMOUNT OF TIME AND THE MINIMUM AREA AS IS PRACTICAL THROUGH GRADING PHASES.
2. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO OR CONCURRENT WITH LAND-DISTURBING ACTIVITIES.
3. PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY. THE LIMITS OF LAND DISTURBANCE SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS.
4. THE LOCATION AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE ACTIVITY SHALL BE DEMARCATED FOR THE DURATION OF THE CONSTRUCTION ACTIVITY. NO LAND DISTURBANCE SHALL OCCUR OUTSIDE THE APPROVED LIMITS INDICATED ON THE APPROVED PLANS.
5. SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE OBSERVED BY CONTRACTOR AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.
6. SITE INSPECTIONS SHALL BE PERFORMED BY A QCI, QCP, OR A QUALIFIED PERSON UNDER THE DIRECT SUPERVISION OF A QCP. A SITE INSPECTION SHALL BE PERFORMED EACH MONTH AND AFTER ANY QUALIFYING PRECIPITATION EVENT, COMMENCING AS PROMPTLY AS POSSIBLE, BUT NO LATER THAN 24 HOURS AFTER RESUMING OR CONTINUING ACTIVE CONSTRUCTION OR DISTURBANCE, AND COMPLETED NO LATER THAN 72 HOURS FOLLOWING THE QUALIFYING PRECIPITATION EVENT. A QUALIFYING PRECIPITATION EVENT IS DEFINED AS RAINFALL TOTALING AT LEAST .34" IN DEPTH. MAINTAIN FULL COORDINATION WITH THE DESIGN PROFESSIONAL, CONTRACTOR AND REGULATORY INSPECTOR AT ALL TIMES REGARDING PROJECT SEQUENCE.
8. SEDIMENT SHALL NOT BE WASHED INTO INLETS.
9. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE AS DIRECTED BY THE ON-SITE INSPECTOR OR THE CIVIL ENGINEER.
10. IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCE/EXITS, ALL PERIMETER EROSION CONTROL AND STORM WATER MANAGEMENT DEVICES SHALL BE INSTALLED AS SHOWN ON THE CBMP PLAN.
11. TYPE "A" SILT FENCE SHOULD BE INSTALLED AT THE PERIMETER OF THE DISTURBED AREA AS SHOWN ON THE PLAN. THE SILT FENCE SHOULD BE PLACED IN ACCORDANCE WITH THE "ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL, AND STORMWATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS," LATEST ADDITION. THE SILT FENCE SHOULD BE KEPT ERECT AT ALL TIMES AND REPAIRED WHEN REQUESTED BY THE SITE INSPECTOR OR THE PROJECT DESIGN PROFESSIONAL OF RECORD. SILT SHOULD BE REMOVED WHEN ACCUMULATION REACHES 1/2 HEIGHT OF THE BARRIER. THE PERIMETER SILT FENCE SHOULD BE INSPECTED DAILY FOR ANY FAILURES. ANY FAILURES OF SAID FENCING SHOULD BE REPAIRED IMMEDIATELY.
12. THE CONTRACTOR MAY UTILIZE CLEARED TREES AS BARRIER BRUSH SEDIMENT CONTROL. IN AREAS SHOWN ON PLAN WHERE INITIAL GRADING ACTIVITIES WILL NOT OCCUR, THIS PRACTICE IS NOT A MINIMUM REQUIREMENT BUT MAY BE USED WHERE DEEMED PRACTICAL BY THE CONTRACTOR.
13. THE ONLY HAZARDOUS MATERIALS OR FUEL TO BE STORED ON SITE SHALL BE THOSE NEEDED FOR THE CONSTRUCTION ACTIVITIES AND EQUIPMENT. STORAGE OF THESE MATERIALS AND ANY CLEAN-UP PROCEDURES IN THE EVENT OF A SPILL SHALL COMPLY WITH THE REQUIREMENTS OF THIS CBMPP AS WELL AS ALL LOCAL, STATE, AND FEDERAL REGULATIONS.
14. MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WHERE THE OPERATION WILL NOT RESUME FOR A PERIOD EXCEEDING (10) CALENDAR DAYS. ALL DISTURBED AREAS LEFT MULCHED LONGER THAN 30 DAYS SHALL BE STABILIZED WITH TEMPORARY VEGETATION.
15. CONTRACTOR SHALL OBSERVE BMP'S ONCE EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
16. FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED CBMP PLANS.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF ALL EROSION CONTROL MEASURES INCLUDING REPLACING OR REPAIRING ANY DAMAGED DEVICES DUE TO ANY CONSTRUCTION ACTIVITY BY OTHERS.
18. CUT AND FILL SLOPES ARE NOT TO EXCEED "2H:1V" OR AS SHOWN ON GRADING PLAN.
19. TYPE "A" SILT FENCE SHALL BE PLACED AT THE TOE OF ALL DIRT STOCKPILE AREAS.
20. ALL DRAINAGE SWALES SHALL BE APPLIED WITH VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED.
21. ALL GRADED AREAS SHALL BE APPLIED WITH VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED.
22. THE CONTRACTOR SHALL BEGIN PREPARING AND IMPLEMENTING FINAL SITE STABILIZATION WITH PERMANENT VEGETATION & BMP'S.
23. ALL ROADWAY AND PARKING SHOULDERS SHOULD BE GRASSED AS SOON AS FINAL GRADE IS ACHIEVED BEHIND CURBS.

NO	REVISIONS	DESCRIPTION	DATE
0	ISSUE FOR BID		7-23-2024
1			
2			
3			
4			

CBMPP NOTES

SHELBY CO. LANDFILL SCALEHOUSE

SR 70

COLUMBIANA, AL

SHELBY CO. FACILITIES

COLUMBIANA, AL

GONZALEZ - STRENGTH & ASSOCIATES, INC.

CIVIL ENGINEERING - TRANSPORTATION ENGINEERING - LAND SURVEYING

LAND PLANNING - LANDSCAPE ARCHITECTURE

1550 WOODS OF RIVERCHASE DRIVE SUITE 200

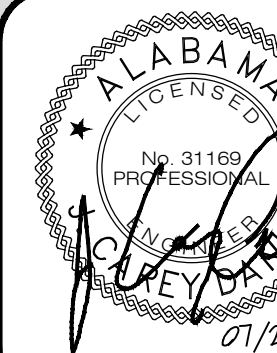
PHOENIX, AZ 85024

PHONE: (205) 942-2468

FAX: (205) 942-3033

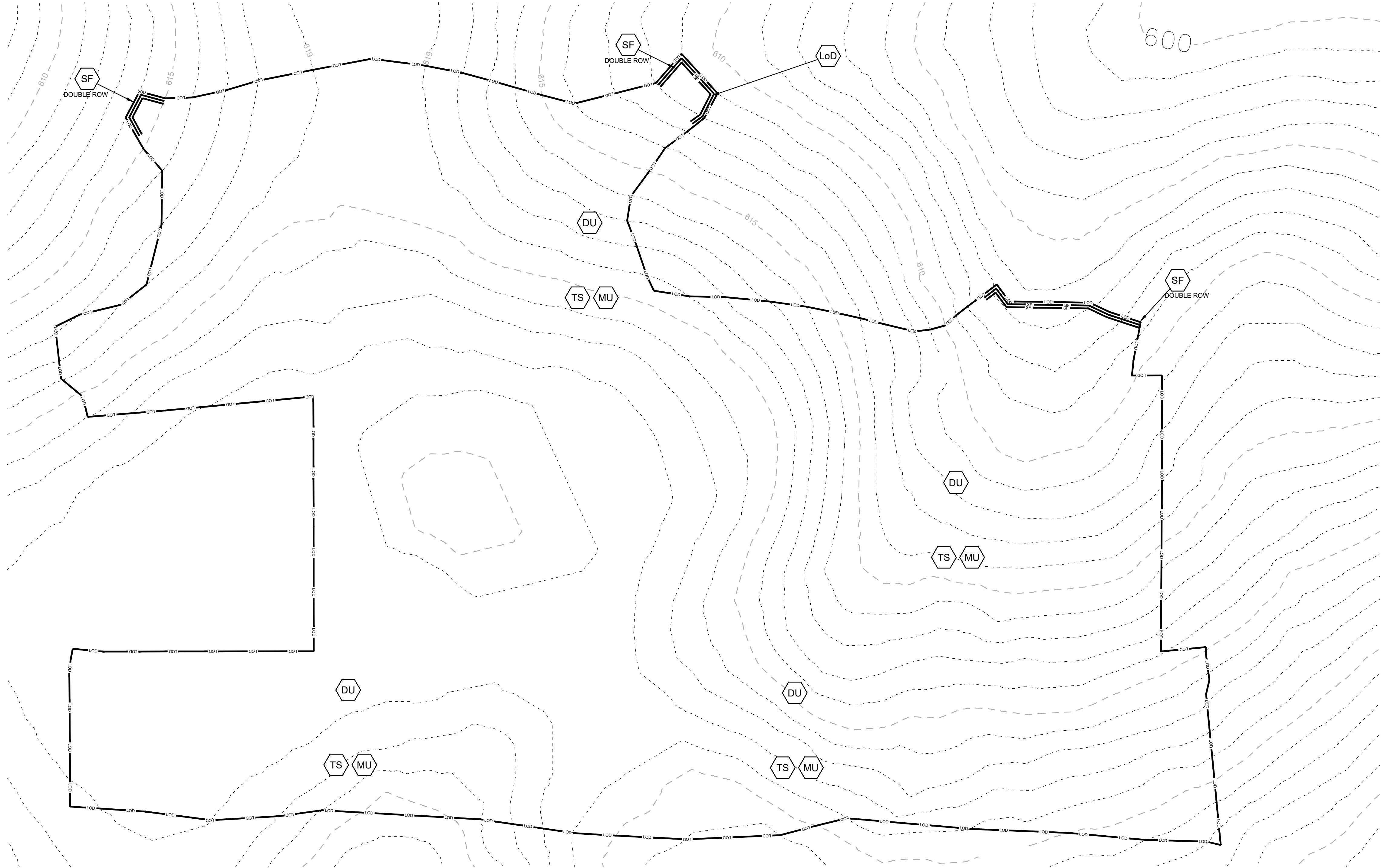
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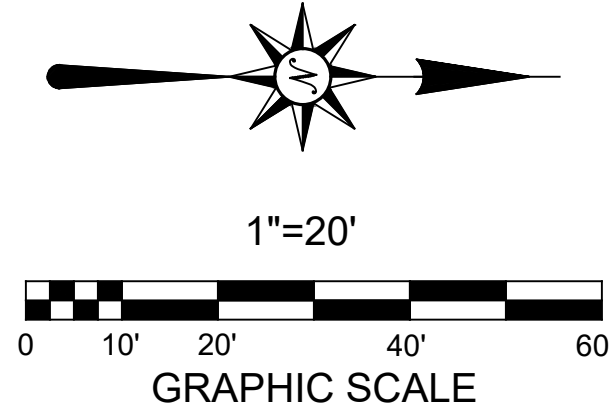
DWG NO. C502_R0

PROJECT 24-0098



CBMPP - PHASE I LEGEND

- LOD — LoD LIMITS OF DISTURBANCE, TYPICAL.
- SF — SF SILT FENCE REQ'D., TYPICAL. SEE SF/C550.
- DU DUST CONTROL REQD.
- TS MU TEMPORARY SEEDING AND MULCH REQ'D. SEE DETAIL.



CBMPP SEQUENCE - PHASE I

1. INSTALL THE CBMPP INFORMATION SIGN, AND POST REQUIRED DOCUMENTS NEAR THE PLANNED CONSTRUCTION EXIT, AND WITHIN EASY ACCESS TO THE GENERAL PUBLIC WITHOUT ENTERING THE SITE.
2. STAKE/FLAG THE LOD (WHERE STAKING IS NOT POSSIBLE/PRACTICAL, THE LOD MUST BE CONSPICUOUSLY, AND PROMINENTLY, MARKED TO DENOTE THE BOUNDARY). LOD MUST REMAIN CONSPICUOUSLY MARKED THROUGHOUT THE ENTIRE CONSTRUCTION PROJECT.
3. INSTALL PERIMETER SILT FENCES IN THE VICINITY OF, AND DOWN GRADIENT FROM, THE LOCATION OF THE PLANNED CONSTRUCTION OFFICE TRAILER AND TEMPORARY PARKING AND STORAGE AREAS. CLEAR ONLY THE MINIMUM AREA ABSOLUTELY NECESSARY TO INSTALL THESE PERIMETER CONTROL BMPS.
4. SET THE PROJECT OFFICE TRAILER.
5. INSTALL REMAINING PERIMETER SEDIMENT CONTROL BMPS, AS SHOWN ON THE PLANS. CLEAR ONLY THE MINIMUM AREA NECESSARY TO INSTALL PERIMETER CONTROL BMPS.
6. INSTALL CONCRETE WASHOUT.
7. PREPARE TEMPORARY PARKING AND STORAGE AREA.
8. BEGIN DEMOLITION.
9. INSTALL TEMPORARY SEDIMENT BASIN, BAFFLES, AND FAIRCLOTH SKIMMER.
10. BEGIN GRADING SITE.

REFER TO SURVEY FOR
EXISTING CONDITIONS LEGEND

REVISIONS		DATE
NO.	DESCRIPTION	
0	ISSUE FOR BID	7/23/2024
1		
2		
3		
4		

CBMPP - PHASE I

SHELBY CO. LANDFILL SCALEHOUSE

SR 70
COLUMBIA, AL

SHELBY CO. FACILITIES

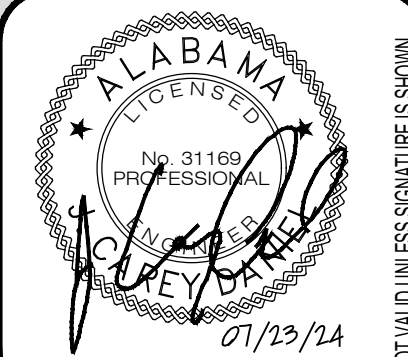
COLUMBIA, AL

GONZALEZ - STRENGTH & ASSOCIATES, INC.

CIVIL ENGINEERING - TRANSPORTATION ENGINEERING - LAND SURVEYING
LAND PLANNING - LANDSCAPE ARCHITECTURE

1550 WOODS OF RIVERCHASE DRIVE SUITE 200
FLORENCE, ALABAMA 36634
PHONE: (205) 942-2486
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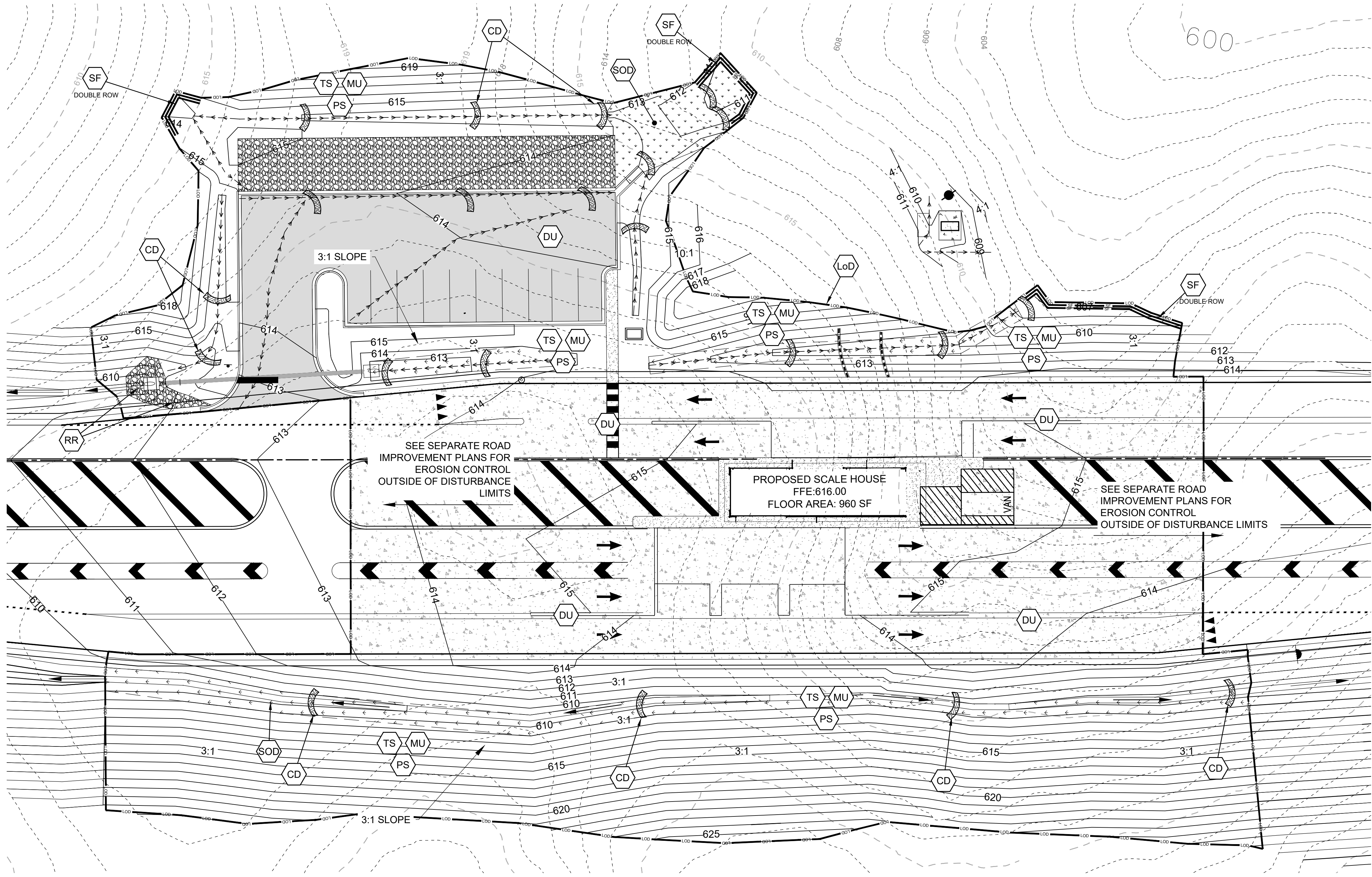
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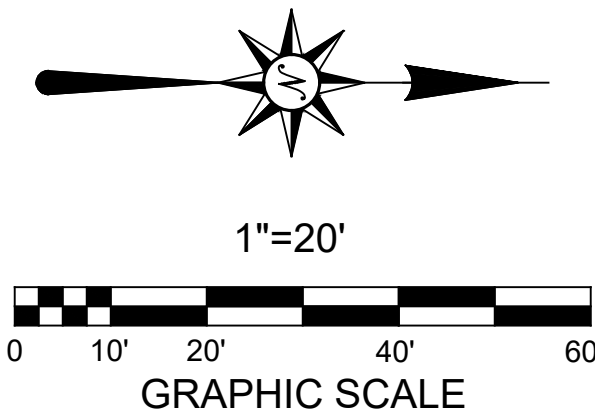
DWG NO.
C503 R 0

PROJECT
24-0098



CBMPP - PHASE II/III LEGEND

- LOD — LoD LIMITS OF DISTURBANCE, TYPICAL.
- SF — SF SILT FENCE REQ'D., TYPICAL. SEE SF/C550.
- RR RIP-RAP PAD REQ'D. SEE RR/C550.
- DU DUST CONTROL REQ'D.
- TS MU TEMPORARY SEEDING AND MULCH REQ'D. SEE DETAIL.
- PS PERMANENT SEEDING, MULCH, AND LANDSCAPING REQ'D. SEE PS/C550.
- CD CHECK DAM WADDLE REQ'D. SEE CD/C550.
- SOD SOLID SOD REQ'D. SEE C550.



CBMPP SEQUENCE - PHASE II & III

1. INSTALL DIVERSION BERMS OR DITCHES AS NECESSARY AS SITE IS BROUGHT TO GRADE TO DIVERT STORMWATER TO THE APPROPRIATE BMP.
2. MAINTAIN INLET PROTECTION FILTER SACKS THROUGHOUT CONSTRUCTION.
3. TEMPORARILY STABILIZE, THROUGHOUT CONSTRUCTION IMMEDIATELY FOLLOWING THE COMPLETION OF THE MOST LAND DISTURBING/GRADING ACTIVITY, ANY DISTURBED AREAS, INCLUDING MATERIAL STOCKPILES THAT ARE SCHEDULED OR LIKELY TO REMAIN INACTIVE FOR 10 DAYS OR MORE.
4. IMMEDIATELY PERMANENTLY STABILIZE AREAS TO BE VEGETATED AS THEY ARE BROUGHT TO FINAL GRADE.
5. ONCE FINAL STABILIZATION IS ACHIEVED AS DETERMINED BY THE CIVIL ENGINEER OF RECORD AND OWNER, CONTRACTOR SHALL REMOVE ALL TEMPORARY BMP'S. ALL RIP RAP SHALL BE CLEANED OF ALL VISIBLE SEDIMENT AND MUD PER MAINTENANCE SPECIFICATIONS AND SHALL REMAIN AS PERMANENT.
6. ONCE FINAL STABILIZATION IS ACHIEVED AS DETERMINED BY THE CIVIL ENGINEER OF RECORD AND OWNER, CONTRACTOR TO FILE NOTICE OF TERMINATION (NOT) WITH ADEM.

REFER TO SURVEY FOR
EXISTING CONDITIONS LEGEND

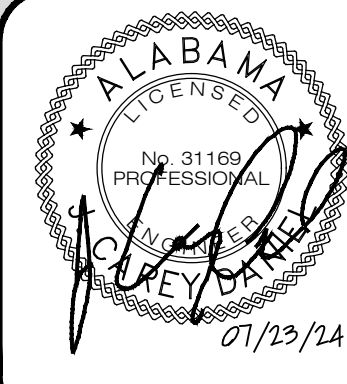
CBMPP - PHASE II

SHELBY CO. LANDFILL SCALEHOUSE

SR 70
COLUMBIA, AL
SHELBY CO. FACILITIES
COLUMBIA, AL

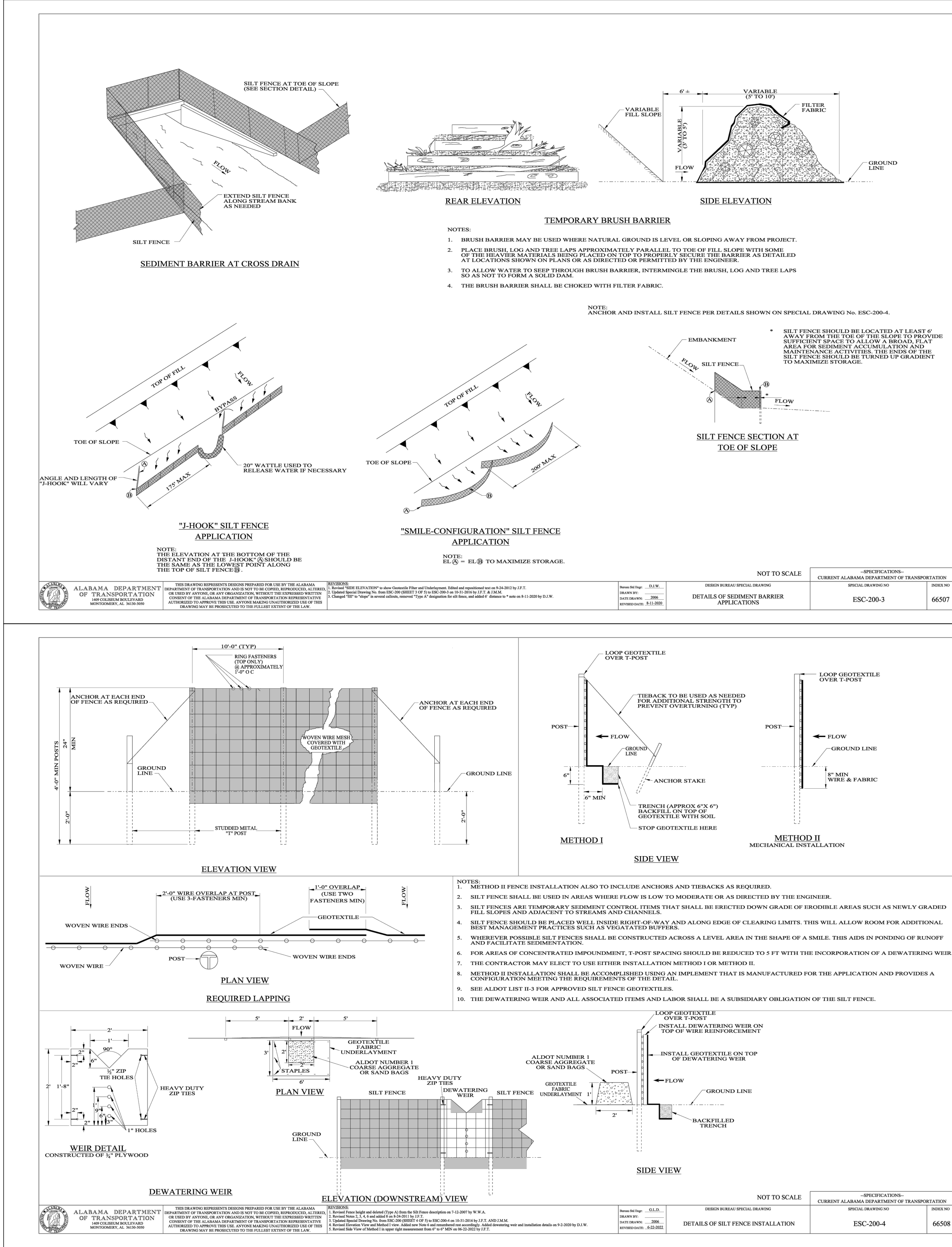
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DWG NO.
C504 R 0
PROJECT
24-0098



1. SOIL TEST REPORT: INSTALLER SHALL PROVIDE AND PAY FOR A SOIL TEST REPORT TO DETERMINE TYPE AND QUANTITIES OF FERTILIZERS AND OTHER AMENDMENTS NECESSARY TO ESTABLISH PROPER PH FACTOR AND NUTRIENTS TO BRING EXISTING SOIL TO A SATISFACTORY LEVEL FOR PLANT GROWTH. FURNISH COPIES OF SOIL TEST REPORT TO ENGINEER. CONTACT LOCAL COUNTY AGENT FOR TESTING.
 2. SEED: PROVIDE A FRESH, CLEAN, NEW-CROP SEED COMPLYING WITH ESTABLISHED TOLERANCES FOR GERMINATION AND PURITY IN ACCORDANCE WITH THE USDA RULES AND REGULATIONS OF THE FEDERAL SEED ACT, LATEST EDITION. SEED SHALL BE MIXED BY DEALER AND DELIVERED IN SEALED CONTAINERS BEARING DEALER'S GUARANTEED ANALYSIS.
 3. PREPARATION FOR NEWLY SEEDED AREAS: SPREAD A MINIMUM OF 4" OF TOPSOIL OVER AREAS TO BE SEEDED. GRADE AREAS FOR PROPER DRAINAGE. ADD FERTILIZERS IN QUANTITIES AS RECOMMENDED IN THE SOIL TEST REPORT. APPLY SEED AT RATES SPECIFIED. ROLL OR RAKE SEED INTO TOP 1/4" OF SOIL AND COVER SEEDED AREAS WITH STRAW MULCH AT A MINIMUM RATE OF 75 LBS PER 1000 SF. DO NOT PLACE TOPSOIL ON CUT SLOPES STEEPER THAN 2.5:1.
 4. MAINTENANCE & GUARANTEE: ALL SEEDED AND TURF AREAS SHALL BE GUARANTEED AND MAINTAINED IN STRICT ACCORDANCE WITH SPECIFICATIONS. MAINTAIN ALSO BY WATERING, FERTILIZING, MOWING, WEEDING, APPLICATIONS OF HERBICIDES, FUNGICIDES, INSECTICIDES, AND RE-SEEDING UNTIL A FULL STAND OF TURF, FREE FROM WEEDS, UNDESIRABLE GRASS SPECIES, DISEASE, AND INSECTS IS ACHIEVED AND ACCEPTABLE TO OWNER.
 5. INSTALL EROSION CONTROL BLANKET ON SLOPES STEEPER THAN 3:1 AND AS DIRECTED ON THE SITE PLANS AFTER SEED HAS BEEN INSTALLED.
 6. MIXTURES: SEED AREAS AS SPECIFIED AND NOTED ON DRAWINGS WITH THE FOLLOWING MIXTURES: SEED MIXTURES C (WITH ANNUAL RYE GRASS) SHALL BE MOWED TO A HEIGHT NOT TO EXCEED 3" DURING WINTER MONTHS. MOW TO A HEIGHT OF 1.5" IN MIDDLE OF MAY OR WHEN THE BERMUDA GRASS BEGINS TO GERMINATE.
- Slopes Steeper than 3:1 (H:V)
MIX-A (SEP thru MAR)
Reseeding Crimson Clover (30#/ac)
Bermuda - hulled (30#/ac)
Annual Rye (100#/ac)
- Slopes 3:1 (H:V) and Flatter
MIX-C (SEP thru MAR)
Bermuda-unhulled (45#/ac)
Annual Rye (100#/ac)
- MIX-B (APR thru AUG)
Reseeding Crimson Clover (60#/ac)
Bermuda - unhulled (50#/ac)
- MIX-D (APR thru AUG)
Bermuda - hulled (64#/ac)

TS - SEEDING NOTE N.T.S.

SEEDING

Construction Specifications:
Timing:
Apply permanent seeding on areas left dormant for 1 year or more.
To determine optimum seeding schedule, consult a local agronomist or erosion control specialist.
Apply permanent seeding before seasonal rains or freezing weather is anticipated.
Use dormant seeding for late fall or winter seeding schedules.
Seed Mixes:
Use seeds appropriate to the season and site conditions.
Consult local agronomist or erosion control specialists for seed mix.
Use a seed blend to include annuals, perennials and legumes.
Use seed rates based on pure live seed (PLS) of 80%. When PLS is below 80% adjust rates accordingly.
Site Preparation:
Bring the planting area to final grade and install the necessary erosion control practices.
Divert concentrated flows away from the seeded area.
Conduct soil test to determine pH and nutrient content. Roughen the soil by harrowing, tracking, grooving or furrowing.
Apply amendments as needed to adjust pH to 6.0-7.5. Incorporate these amendments into the soil.
Prepare a 3-5 inch (76-127 mm) deep seedbed, with the top 3-4 inches (76-102 mm) consisting of topsoil.
The seedbed should be firm but not compact. The top three inches of soil should be loose, moist and free of large clods and stones.
The topsoil surface should be in reasonably close conformity to the lines, grades and cross sections shown on the grading plans.
Planting:
Seed to soil contact is the key to good germination.
Seed should be applied immediately after seedbed preparation while the soil is loose and moist. If the seedbed has been idle long enough for the soil to become compact, the topsoil should be harrowed with a disk, spring tooth drag, spike tooth drag, or other equipment designed to conditions the soil for seeding.
Harrowing, tracking or furrowing should be done horizontally across the face of the slope.
Seed to soil contact is the key to good germination.
Always apply seed before applying mulch.
Apply seed at the rates specified using calibrated seed spreaders, cyclone seeders, mechanical drills, or hydroseeder so the seed is applied uniformly on the site.
Broadcast seed should be incorporated into the soil by raking or chain dragging, and then lightly compacted to provide good seed-soil contact.
Apply fertilizer as specified.
Apply mulch or erosion control blanket, as specified, over the seeded areas. Inspection and Maintenance:
Newly seeded areas need to be inspected frequently to ensure the grass is growing.
If the seeded area is damaged due to runoff, additional stormwater measures may be needed.
Spot seeding can be done on small areas to fill in bare spots where grass did not grow properly.

NOTE: DURING "HOLD FAILURE" MONTHS SEEDING CONTRACTOR TO SPREAD MULCH OR HAY FOR SLOPE STABILIZATION.

- USE A MINIMUM OF 40 LBS. SCARIFIED SEED. REMAINERS MAY BE UNSCARIFIED, CLEAN HULLED SEED.
- USE EITHER COMMON SEED OR INTERSTATE SEEDS. LEGUMES.
- ALL AREAS TO BE SEEDED SHALL HAVE LIME APPLIED AT A RATE OF 90 LB./1000 S.F.. LIME AND FERTILIZER TO BE APPLIED PRIOR TO APPLICATION OF SEED AND MIXED THOROUGHLY WITH THE SOIL.
- ALL AREAS SEEDED SHALL HAVE AN APPLICATION OF STRAW MULCH (APPROXIMATELY 2 1/2 TONS PER ACRE) IMMEDIATELY AFTER PLANTING REGARDLESS OF PLANTING METHOD.
- MAINTAIN 1 YEAR MINIMUM
- FERTILIZERS: AGRICULTURAL LIME 1 TON PER ACRE
- 8-12-12 OR 5-10-15 1000 LB. PER ACRE
- VEGETATION MEASURES SHALL BE PER ALDOT OR ALABAMA EROSION HANDBOOK STANDARD REQUIREMENTS AND SPECIFICATIONS

PS - PERMANENT SEEDING N.T.S.

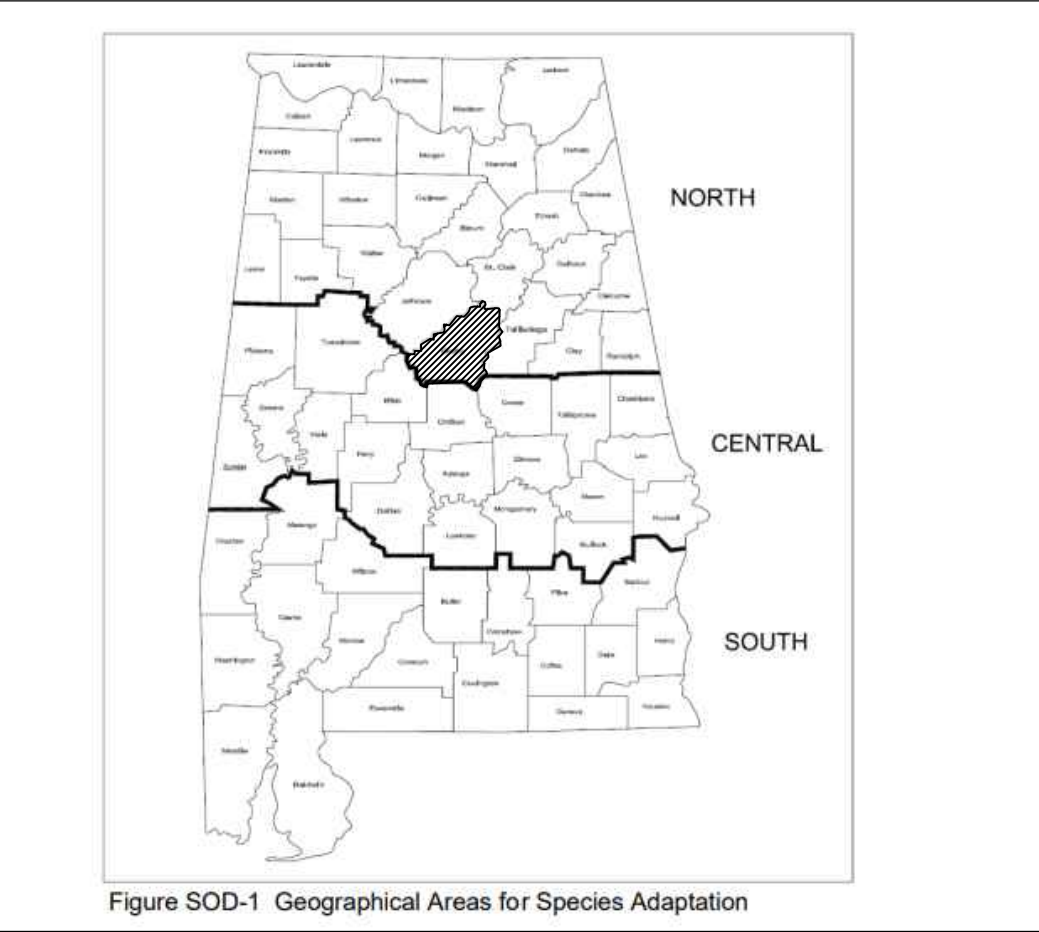
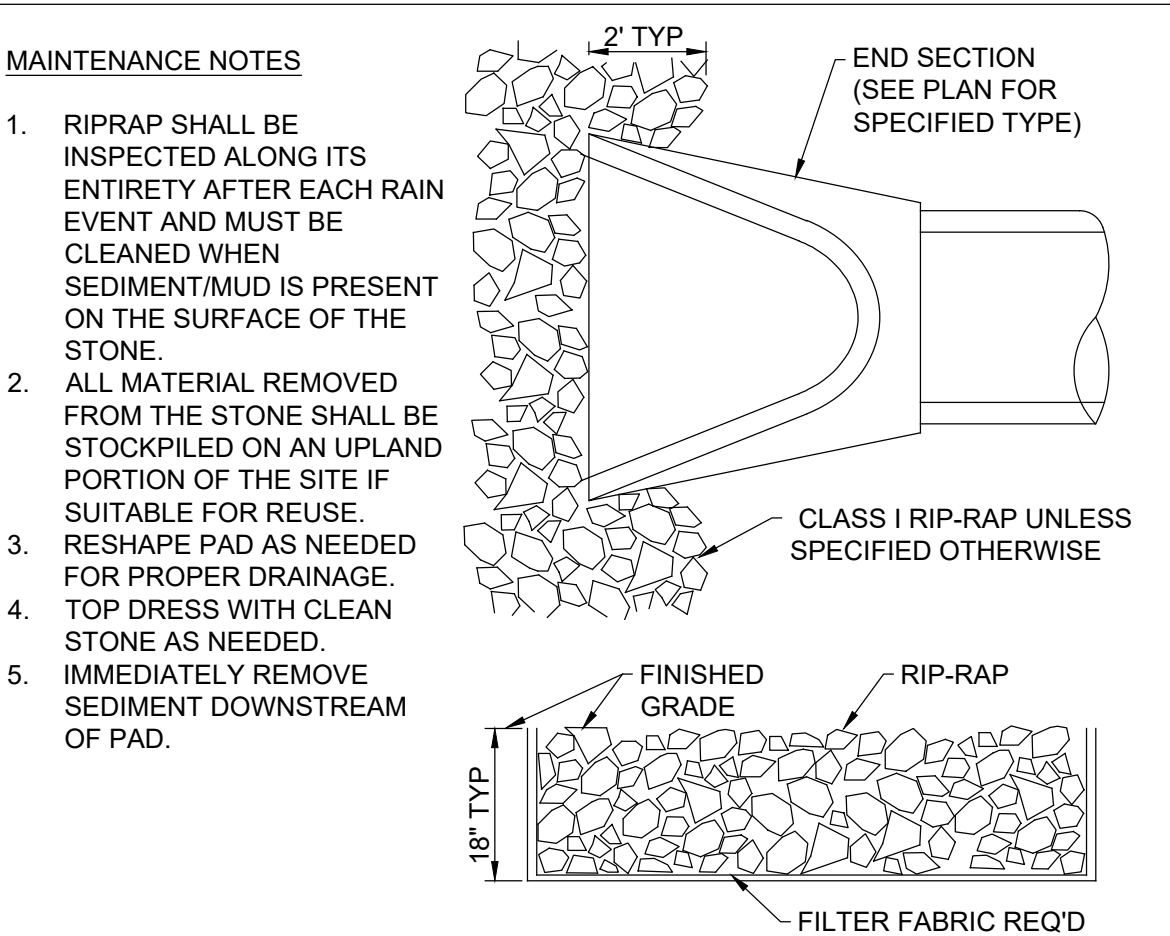


Figure SOD-1 Geographical Areas for Species Adaptation

SPECIES		BROADCAST Rates PLS per Acre 1000 SF		RESOURCE		REMARKS
SUDAGRASS	ALONE	40 lbs.	0.9 lb.	NORTH	J F M J J A S O N D	
		10 lbs.	0.2 lb.	CENTRAL		
				SOUTH		
WHEAT	ALONE	3 bu	3.9 lb.	NORTH	J F M J J A S O N D	
		(168 lbs.)		CENTRAL		
				SOUTH		
MILLET, BROWN TOP (Panicum fasciculatum)	ALONE	40 lbs.	0.9 lb.	NORTH	J F M J J A S O N D	137,000 SEED PER POUND QUICK DENSE COVER WILL PROVIDE TOO MUCH COMPETITION IN MIXTURES IF SEEDED AT HIGH RATES
		10 lbs.	0.2 lb.	CENTRAL		
				SOUTH		
RYE (Secale cereale)	ALONE	3 bu	3.9 lb.	NORTH	J F M J J A S O N D	18,000 SEED PER POUND DENSE COVER BROWN TOP DROUGHT TOLERANT AND WINTER - HARDY
		(168 lbs.)		CENTRAL		
		1/2 bu.	0.6 lb.	SOUTH		
RYEGRASS, ANNUAL (Lolium temulentum)	ALONE	30 lbs.	0.7 lb.	NORTH	J F M J J A S O N D	227,000 SEED PER POUND DENSE COVER VERY COMPETITIVE AND 5:30:10 TO BE USED IN MIXTURES
				CENTRAL		
				SOUTH		
COMMON BERMUDAGRASS	ALONE	10 lbs.	0.25 lb.	NORTH	J F M J J A S O N D	
				CENTRAL		
				SOUTH		
CRIMSON CLOVER	ALONE	10 lbs.	0.25 lb.	NORTH	J F M J J A S O N D	
				CENTRAL		
				SOUTH		

PS — PERMANENT SEEDING



1. SOIL TEST REPORT: INSTALLER SHALL PROVIDE AND PAY FOR A SOIL TEST REPORT TO DETERMINE TYPE AND QUANTITIES OF FERTILIZERS AND OTHER AMENDMENTS NECESSARY TO ESTABLISH PROPER PH FACTOR AND NUTRIENTS TO BRING EXISTING SOIL TO A SATISFACTORY LEVEL FOR PLANT GROWTH. FURNISH COPIES OF SOIL TEST REPORT TO ENGINEER. CONTACT LOCAL COUNTY AGENT FOR TESTING.
2. PREPARATION: INSTALL 4 INCHES OF TOPSOIL OVER ALL AREAS TO BE SODDED. RAKE SMOOTH TO GRADES SHOWN. ADD FERTILIZERS AND OTHER AMENDMENTS IN QUANTITIES AS RECOMMENDED IN THE SOIL TEST REPORT, UNLESS OTHERWISE NOTED IN THE SPECIFICATIONS.
3. SOD: PROVIDE FRESH WELL-ROOTED SOD FREE OF WEEDS, DISEASE, INSECTS, AND OTHER GRASSES. SOD SHALL BE MACHINE CUT WITH CLEAN EDGES TO A UNIFORM THICKNESS WITH 1.5" OF TOPSOIL AND A TURF HEIGHT OF 1 TO 1 1/2 INCHES. MOW PRIOR TO CUTTING.
4. INSTALLATION: INSTALL WITH TIGHT FITTED JOINTS. LAY PERPENDICULAR TO DIRECTION OF SLOPE. STAGGER STRIPS TO OFFSET JOINTS OF ADJACENT COURSES. SET SOD WITH WATER BALLAST ROLLER AND WATER THOROUGHLY TO SATURATE SOD AND SUBSOIL. SECURE SOD WITH STAPLES ON SLOPES 2.5:1 AND STEEPER.
5. MAINTENANCE & GUARANTEE: ALL SODDED AND TURF AREAS SHALL BE GUARANTEED AND MAINTAINED IN STRICT ACCORDANCE WITH SPECIFICATIONS. MAINTAIN ALSO BY WATERING, FERTILIZING, MOWING, WEEDING, APPLICATIONS OF HERBICIDES, FUNGICIDES, INSECTICIDES, UNTIL A FULL STAND OF GRASS, FREE FROM WEEDS, DISEASE, AND INSECTS IS ACHIEVED AND ACCEPTABLE TO OWNER. REPLACE ANY DEAD SOD.

SOD NOTE N.T.S.

SOIL PREPARATION
BRING SOIL SURFACE TO FINAL GRADE. CLEAR SURFACE OF TRASH, WOODY DEBRIS, STONES AND CLODS LARGER THAN 1". APPLY SOD TO SOIL SURFACES ONLY AND NOT FROZEN SURFACES, OR GRAVEL TYPE SOIL. TOPSOIL PROPERLY APPLIED WILL HELP GUARANTEE A STAND. DO NOT USE TOPSOIL RECENTLY TREATED WITH HERBICIDES OR SOIL STERILANTS. MIX FERTILIZER INTO SOIL SURFACE BASED ON TABLE BELOW.

Fertilizer Type	Fertilizer Rate (lb/acre)	Season
10-10-10	1000	0.025 Fall

INSTALLATION
(STEP 1) LAY SOD WITH TIGHT JOINTS AND IN STRAIGHT LINES. DON'T OVERLAP JOINTS. STAGGER JOINTS AND DO NOT STRETCH SOD. ON SLOPES STEEPER THAN 3:1, SOD SHOULD BE ANCHORED WITH PINS OR OTHER APPROVED METHODS. INSTALLED SOD SHOULD BE ROLLED OR TAMPED TO PROVIDE GOOD CONTACT BETWEEN SOD AND SUBSOIL. (STEP 2) THE BUTTING/ANGLE ENDS CAUSE OF THE AUTOMATIC SOD CUTTING MUST BE WATCHED CORRECTLY. (STEP 3) IRRIGATE SOD AND SOIL TO A DEPTH OF 4" IMMEDIATELY AFTER INSTALLATION. SOD SHOULD NOT BE CUT OR SPREAD IN EXTREMELY WET OR DRY WEATHER. IRRIGATION SHOULD BE USED TO SUPPLEMENT RAINFALL FOR A MINIMUM OF 2-3 WEEKS.

Correct

LAY SOD IN A STAGGERED PATTERN, BUT THE STRIPS TIGHTLY AGAINST EACH OTHER AND DO NOT OVERLAP.

Incorrect

ROLL SOD IMMEDIATELY TO ACHIEVE FIRM CONTACT WITH THE SOIL

WATER TO A DEPTH OF 4" AS NEEDED. WATER WELL AS SOON AS THE SOD IS LAYED.

MOW WHEN THE SOD IS ESTABLISHED (2-3 WEEKS). SET THE MOWER HIGH (2"-3")

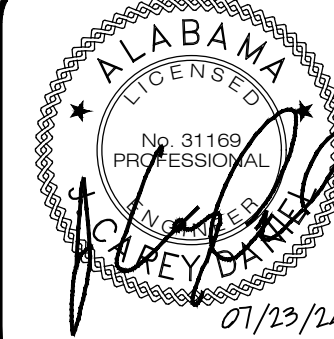
MATERIAL
SOD SELECTED SHOULD BE CERTIFIED. SOD GROWN IN THE GENERAL AREA OF THE PROJECT IS DESIRABLE.
1. SOD SHOULD BE MACHINE CUT AND CONTAIN 1" ± OF SOIL, NOT INCLUDING SHOOT OR THATCH.
2. SOD SHOULD BE CUT TO THE DESIRED SIZE WITHIN ±5% TOLERANCE. UNIFORM PINS SHOULD BE SELECTED.
3. SOD SHOULD BE CUT AND INSTALLED WITHIN 36 HOURS OF DIGGING.
4. AVOID PLANTING WHEN SUBJECT TO FROST HEAVE OR HOT WEATHER IF IRRIGATION IS NOT AVAILABLE.
5. THE SOD TYPE SHOULD BE SHOWN ON THE PLANS OR INSTALLED ACCORDING TO THE TABLE PROVIDED BELOW FOR YOUR RESOURCE AREA.

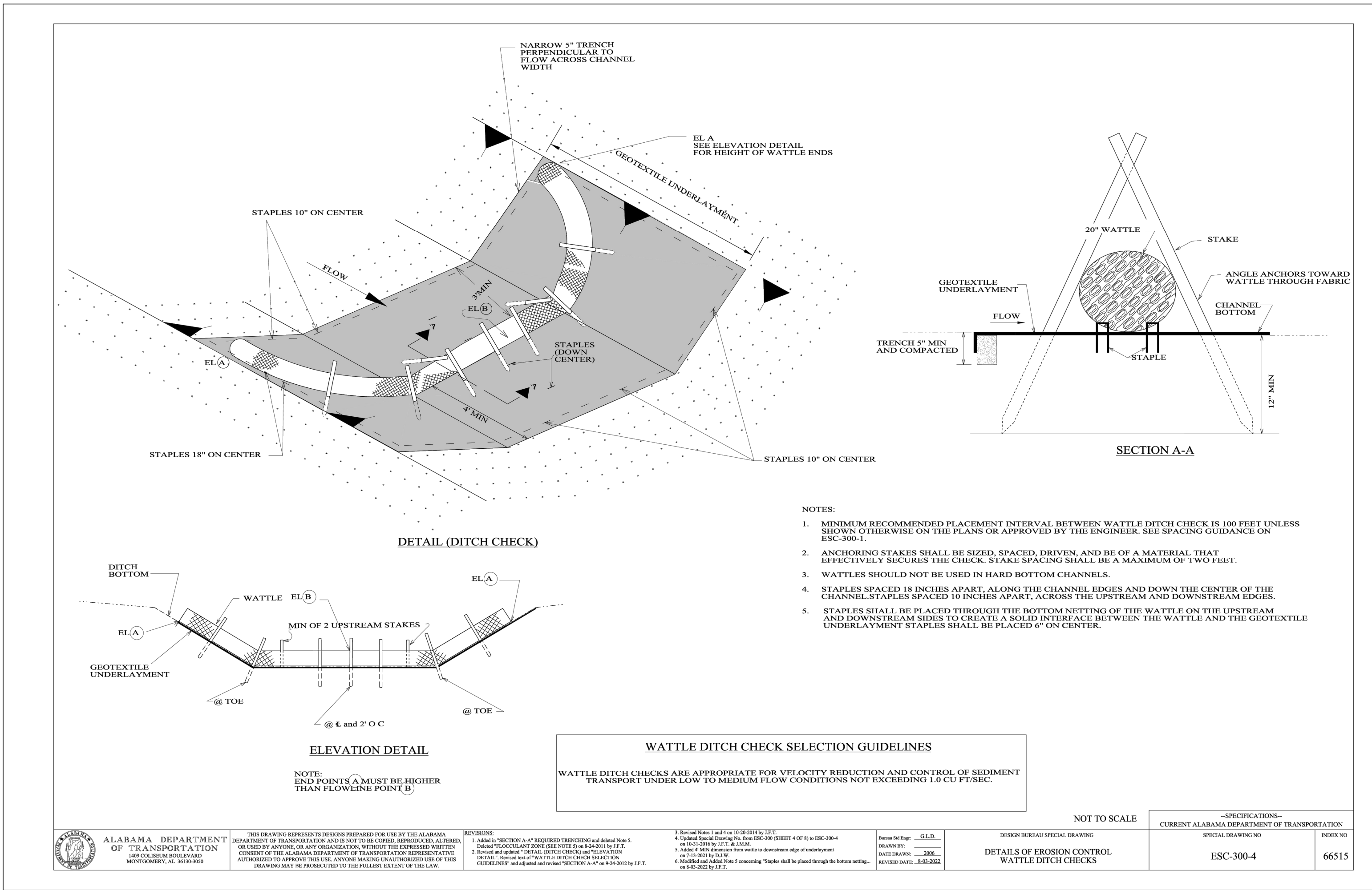
SOD SODDING LOCATION IN MANUAL : P. 73

PLANTS, PLANTING RATES, AND PLANTING DATES FOR TEMPORARY COVER OR COMPANION CROPS

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SR 70
COLUMBIANA, AL
SHELBY CO. FACILITIES
COLUMBIANA, AL

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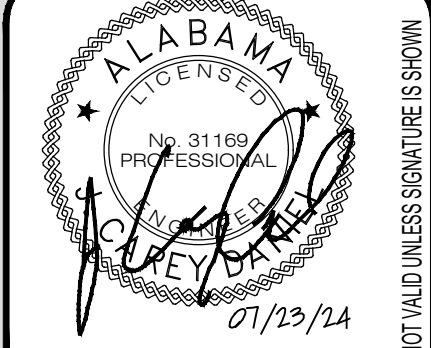
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