

MEMORANDUM

TO: Bidders

FROM: Mark Simpson

DATE: April 24, 2024

SUBJECT: Mountain Ln and Montevallo Ln Area Drainage Improvements

Bid # B-20240415-925 Addendum No. 1

The following revisions and clarifications are part of Addendum No. 1 and should be incorporated into the construction documents. Please verify that you have received Addendum No. 1 and taken the proposed modifications into account.

The following are part of Addendum No. 1:

Project Manual Revisions

- 1. Revised Bid Proposal Form- Bid Item for Alabama Power Line Relocates changed from Bid Item 3 to Bid Item 2. Bidders shall replace Exhibit A- Contractors Bid Response Form with the included form.
- 2. <u>Revised Work Hours</u>- The following section of the Contract is amended: II Specifications, 1. General Requirements, K. Compliance with Laws/Permitted Hours for Construction. The amended hours for construction are as follows:

Per City of Mountain Brook Ordinance No. 2151, Adopted September 25th, 2023, work of the nature contemplated on the Project may be conducted in the City at the following hours: (i) Monday-Fridays: 7:00 a.m. – 7:00 p.m Mondays through Saturdays; and (ii) No construction shall be permitted on Sundays or on New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Christmas Eve or Christmas Day. When City school is in session, in accordance with the 2024 academic calendar, no construction traffic will be allowed during the following hours: (i) 7:00 a.m. – 8:15 a.m. and (ii) 2:30 p.m. – 3:30 p.m.

Plan Revisions

Modifications have been made to the Bid Set Plans. The attached Bid Set dated 4/24/24 should be referenced. The revisions to the plans and specific sheets affected are included in the table below:

| SHEET NUMBER | SHEET NAME | REVISION NOTE |
|-----------------|-------------------------|--|
| 3 | Demolition plan | Revised notes, added note |
| 4 | Site Layout Plan | Added Scour Pad, HW Improvement Detail |
| 5 | Grading & Drainage Plan | Revised Note for Open Throat Inlet Elev. |
| 16 | Details | Added Scour Pad Detail and Plan View |

General

1. None

The following attachments are included with this Addendum No. 1

Pre-Bid Meeting Agenda-Minutes

Pre-Bid Sign in Sheet

Exhibit A – Contractors Bid Response Form Add 1

Alabama Power Quy Wire Relocation Cost Estimate

Plan Set Addendum 1



THE CITY OF MOUNTAIN BROOK

Mountain Ln and Montevallo Ln Area Drainage Improvements

Mandatory Pre-Bid Conference Agenda

April 23rd, 2024

I. Introduction of Owner and Design Team

- a. City of Mountain Brook
- b. Schoel Engineering: Mark Simpson, Lead Engineer

II. Project Coordination/Communication

a. All correspondence between the Owner/Contractor/Engineer (Schoel) or their sub-consultants shall come through the Engineer from the Contractor then to the Owner.

III. Bid Date, Time and Location

a. Original Hard copy to be submitted to the City 10:00 AM CDT on May 7th, 2024.

IV. Bid Preparation, Guaranty and Delivery of Bids

- a. Use Proposal Form provided in the Project Manual
- b. No alterations shall be made to the bid proposal unless modified by Addendum
- c. Bid Allowance: none
- d. Contractor Selection Based on price and per the contract.

V. Project Timeline

- a. Total Project Duration is One Hundred Fifty (150) calendar days.
- b. Project Schedule:
- 1. April 14 Issuance of Project Manual
- 2. April 23 at 10:00am.- Mandatory Pre-Bid
- 3. May 1 at 5:00 p.m. Deadline for Interested Contractors to Submit Written Questions
- 4. May 3 at 5:00 p.m. City's Written Answers to Questions
- 5. May 7 by 10:00 a.m. Bids & Other Completed Documents Due & Bid Opening
- 6. May 13 Anticipated Award Contract by City Council
- 7. <u>May 24</u>-Deliverables (Bonds & Proof of Insurance) Due from Successful Contractor/Contract Executed
- 8. <u>June 4</u> Issuance Notice to Proceed by City
- 9. November 1 Project to be Substantially Completed

VI. Addenda

- a. Minutes of the Pre-Bid and any pertinent discussed items shall be issued following the Pre-Bid conference.
- b. Scheduled Addenda Items
 - i. Added item to Site Layout Plan
 - ii. Revised Language on Demo Sheet related to Alabama Power
 - iii. Bid Form Correction
- c. Any further addenda necessary after Pre-Bid will be issued to all via email.

VII. Liquidated Damages

a. \$250/day per the Project Manual

VIII. Construction Parking

- a. On-site parking will be limited for this project.
- b. Contractor to coordinate for off-site parking locations if needed.
- c. Material laydown limited to City Property in non-traffic areas

IX. Project Overview

- a. Project Location (Vicinity Map on Cover Sheet)
- b. Project Layout
- c. Storage Area, Work limits
- d. Work Hours

II. Specifications, Page 7, <u>Compliance with Laws/Permitted Hours for Construction:</u> Per City of Mountain Brook Ordinance No. 1234, Adopted August 12, 1996, work of the nature contemplated on the Project may be conducted in the City at the following hours: (i) Monday-Fridays: 7:00 a.m. – 8:00 p.m, except that work may commence at 6:30 a.m. on M-Fs on which Daylight Saving Time is observed; and (ii) Sat, Sun & Holidays: 8:00 a.m. – 8:00 p.m. When school in session, in accordance with the 2024 academic calendar, no construction traffic or deliveries, will be allowed during the following hours: (i) 7:00 a.m. – 8:15 a.m. and (ii) 2:30 p.m. – 3:30 p.m. Hours amended in Addendum #1

- e. Major Drainage Path
- f. Excentric Pipe Transition Detail
- g. Power Pole/Guy Wire relocation by Alabama Power-Sheet 3
- h. Sanitary Sewer Manhole Replacement-Sheet 8
- i. Hand Railing-Landscape

City of Mountain Brook – Mountain Ln and Montevallo Ln Area Drainage Improvements

Mandatory Pre-Bid Meeting, Mountain Brook City Hall 10:00 a.m. April 23, 2024

| | Contact Name | Company | Phone & Email |
|------|--------------------|--------------------------|---|
| CATV | McKinlee Gillespie | Gillespie Construction | 205-544-9093 mgillespie@gillespieconstruction. net |
| CAD | JOE ZALEWSKI | JD MORRIS COUST | ZOS THE 4527 JOE @ JD MORRIS CONSTRUCTION. COM |
| CAT | ROGER Williamson | MASSEY ASPHALT PAVING | |
| ~ | RON Gillespie | Gillerpie Constructor US | 205 302 1344 gillerp: econstruction (cooyal po. Con |
| | San Sm M | Tortarigi | 206-282-6299 som that fartaision |
| CATT | Kerda (Paysen | Tortarigi | kpaytin a terterigircan |
| | DAVID ACTON | | DABC DAUNG G MAU 120 |
| | OJATAHNAN MHOL | PAST CONST. | JWANHATALDE PAST CONSTRUCTION, CON 205-910-0082 |
| | Steven Gay | City of Mountain Break | 802-3870 |
| | Daniel Davis | • | 205-802-3869 davis da potabrut.org |
| CMD | LANGE DOTMAN | 2 | 205 283-1553 LANCE & BAMAUTILITY. COM |
| | Son Gusten | City | (205) 802-3803 GASTONS @ MTN brock. |
| | THER SAMPLE | 1 a - 1 | 470-808-1870 SAMPLET GOCBA-PROJECTACT. 601 |
| | Mark Simpson | | (205) 313-1155 MSIMPSON@ School.com |
| - | Will Bryout | Schoe (| (205) 373-6144 wbryant@school.com |
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VI. EXHIBITS

EXHIBIT A - CONTRACTOR BID RESPONSE FORM* (REVISED ADD 1)

Below is the firm bid of the undersigned to perform the Mountain Ln and Montevallo Ln Area Drainage Improvement Project at the price indicated below. The undersigned submits this Form in response to the City's Invitation for Bids for this Project. The City may use the address and contact information below for its communications with the undersigned bidder. By submitting a bid, the undersigned acknowledges that it has read and understands the Contract Documents that apply to the Project and conditions for the award of the contemplated Contract and, except as may be listed in any exception sheet, submits its bid and agrees to perform the Work in accordance with the requirements in the Contract Documents.

OPERATIONS/ESTIMATED QUANTITIES/ UNIT PRICES BASE BID

| ITEM NO. * | A. DESCRIPTION | B. UNIT | C. ESTIMATED QUANTITY * | D. PRICE BID PER UNIT * | E. TOTAL PRICE BID PER ITEM (COL. C X COL. D) |
|---------------|------------------------------------|------------|----------------------------------|----------------------------------|---|
| 1 | DRAINAGE IMPROVEMENTS | LUMP SUM | 1 | \$ | \$ |
| 2 | ALABAMA POWER LINE RELOCATES | LUMP SUM | 1 | \$ 3,810 | \$ 3,810 |

TOTAL AMOUNT BASE BID: \$

| Name of Firm or Company Submitting Bid | Date of Bid |
|--|----------------------------|
| Street Address | Tax Id # of Bidder |
| City State Zip | Web Site of Bidder |
| Signature of Bidder Representative | Office Ph. # Bidder |
| Printed Name Representative Executing for Bidder | Cell Ph. # Bidder Contact |
| Title | Email Address Bidder Rep. |
| his Bid Response must be notarized. | |
| Sworn to and subscribed before me on thisday of | 2024. |
| Notary Public | Commission Expiration Date |
| SEAL | |

* Notes:

- 1. Please state any Exceptions to the Specifications or other requirements in the Contract Document on a separate sheet and attach that sheet to your Bid Response.
- 2. Bidders must complete, sign, notarize and return the Bidder Affidavit and Warranty below with their Responses.
- 3. Items 1, and 2 of the Base Bid detailed on EXHIBIT E and on EXHIBIT F.

ALABAMA POWER COMPANY INVOICE

Date: 09-Apr-2024 02:01 PM

BILLING TYPE: FIXED BUSINESS CODE :

APPLICANT: CITY OF BIRMINGHAM

DATE :

BILL TO: CITY OF BIRMINGHAM ADDRESS: 22 MONTEVALLO LN

CITY: MOUNTAIN BROOK STATE: AL ZIP:

REF. NUMBER : 1419124 WORK ORDER # : A611014AA24

CSS Account #:

JOB DESCRIPTION: MOVING EXISTING DOWN GUYS AND ANCHORS FOR WIDENING OF WATERWAY AND RETAINER WALL. THIS BILLING

WAS CALCULATED ON ESTIMATE NAME CUSTOMER BILLING AND DOES NOT INCLUDE GM COST FOR REMOVALS AND

INSTALLS.

TOTAL PRICE: \$3,312.31

PAID IN ADVANCE: N

REMINDER: Payment must be received before work can be scheduled, and please allow two weeks for construction to commence.

Forward payment to : ALABAMA POWER COMPANY

Attn: HOLMON, CHRISTON 1212 6TH AVENUE NORTH BIRMINGHAM, AL 35203

Price is good for 90 Days

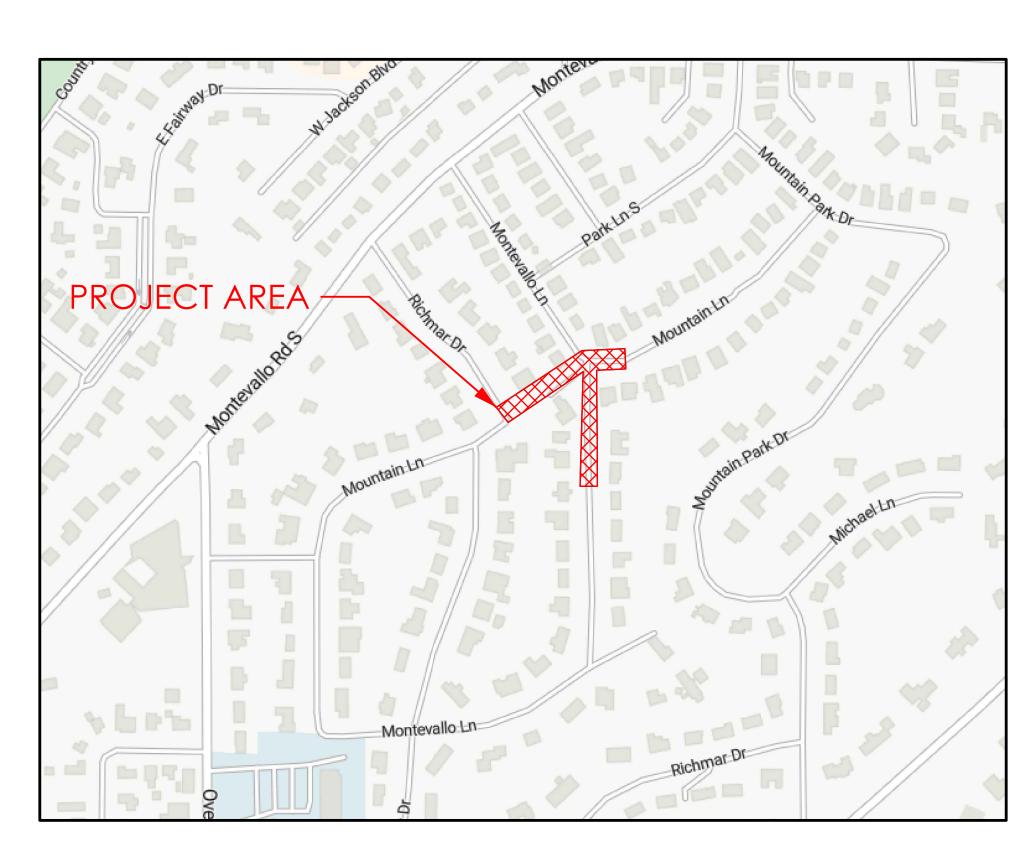
MOUNTAIN LN AND MONTEVALLO LN AREA DRAINAGE IMPROVEMENTS MOUNTAIN BROOK, ALABAMA

DRAWING INDEX



- 1 GENERAL NOTES
- 2 TOPOGRAPHIC SURVEY
- 3 DEMOLITION PLAN
- 4 LAYOUT PLAN
- 5 GRADING & DRAINAGE PLAN
- 6 STORM PROFILES
- 7 WALL PROFILES
- 8 SANITARY PLAN AND PROFILE
- 9 EROSION CONTROL PLAN
- 10 LANDSCAPE GRADING PLAN
- 11 LANDSCAPE PLAN
- 12 LANDSCAPE DETAILS

13-16 DETAILS



VICINITY MAP

N.T.S.

OWNER

CITY OF MOUNTAIN BROOK 56 CHURCH STREET MOUNTAIN BROOK, AL 35213 CONTACT: MR. SAM GASTON PHONE: (205) 313-1149

CIVIL ENGINEER

PHONE: (205) 323-6166

SCHOEL ENGINEERING COMPANY, INC. 1001 22ND STREET SOUTH BIRMINGHAM, AL 35205 CONTACT: MARK E. SIMPSON



GENERAL NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR MAKING APPLICATIONS AND PAYING FOR ALL NECESSARY PERMITS. ALL PERMITS MUST BE IN HAND BEFORE CONSTRUCTION BEGINS.

2. THE CONTRACTOR SHALL PREVENT THE DESTRUCTION OF ALL SURVEY MONUMENTS, BENCHMARKS, PROPERTY CORNERS, AND ALL OTHER SURVEY POINTS. THE CONTRACTOR IS TO INFORM THE CONSULTANT IN WRITING, PRIOR TO THE DISTURBANCE OF ANY MONUMENT, AND IS NOT TO DISTURB THE POINT UNTIL WRITTEN PERMISSION TO DO SO HAS BEEN GRANTED BY THE CONSULTANT.

3. ALL EXISTING TREES AND SHRUBS OUTSIDE OF THE LIMITS OF WORK SHALL BE PROTECTED DURING CONSTRUCTION AND ARE NOT TO BE DAMAGED IN ANY MANNER.

4. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING IMPROVEMENTS THAT ARE TO REMAIN ON OR OFF SITE DUE TO CONSTRUCTION OF THIS PROJECT. ANY DAMAGES WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND PROPER DISPOSAL OF ALL BOULDERS, DEBRIS, EXCESS CONSTRUCTION MATERIALS AND MATERIAL GENERATED FROM ANY DEMOLITION. 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING EXISTING UTILITIES LOCATED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. THE CONSULTANT/SURVEYOR ASSUME NO RESPONSIBILITY AS TO THE ACCURACY OR COMPLETENESS OF THE EXISTING UTILITIES SHOWN ON THE PLANS.

7. UNLESS INDICATED OTHERWISE ON THE PLANS, ALL STORM DRAINAGE PIPES SHALL BE REINFORCED CONCRETE CLASS III (ASTM C-76). COMPACTED GRANULAR MATERIAL FOR BEDDING SHALL BE REQUIRED AS SHOWN ON THE PIPE BEDDING DETAIL

8. UNLESS INDICATED OTHERWISE ON THE PLANS, ALL RIP RAP SHALL BE CLASS II, IN ACCORDANCE WITH SECTION 814, ALDOT, LATEST EDITION, AND SHALL BE GROUTED WHERE INDICATED ON THE PLANS.

9. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

10. THE CONTRACTOR SHALL PROVIDE ADEQUATE TRAFFIC CONTROL DEVICES AND SAFETY MEASURES FOR THE CONSTRUCTION WORK WITHIN PUBLIC RIGHTS-OF-WAY AND OTHER AREAS WHICH REQUIRE ITS USE IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINISTRATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (M.U.T.C.D.) LATEST EDITION.

11. ALL SIDEWALKS SHALL HAVE A 1.8% MAXIMUM CROSS SLOPE. ALL HANDICAP PARKING, RAMPS, SIGNS, AND SYMBOLS SHALL CONFORM TO THE LATEST AMERICANS WITH DISABILITIES ACT (ADA) SPECIFICATIONS. IF DISCREPANCIES ARISE, THE CONTRACTOR SHALL CONTACT THE CONSULTANT AND ENSURE THAT THESE REQUIREMENTS ARE MET

12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXTENT, LOCATION, AND ELEVATION OF THE EXISTING IMPROVEMENTS. IF ANY DIFFERENCE IN SITE CONDITION OR ELEVATION IS FOUND, THE CONTRACTOR SHALL NOTIFY THE PROJECT CONSULTANT IMMEDIATELY.

13. THE CONTRACTOR SHALL CHECK THE ARCHITECTURAL AND MEP PLANS WITH THE SITE PLAN FOR ANY DISCREPANCIES BEFORE THE WORK BEGINS. THE CONSULTANT IS NOT RESPONSIBLE FOR ARCHITECTURAL AMD MEP CHANGES AFTER PLANS HAVE BEEN SUBMITTED OR CHANGES MADE DURING CONSTRUCTION.

14. ANY MAJOR CHANGES OR REVISIONS MADE TO THE PLANS AFTER INITIAL APPROVAL SHALL BE OFFICIALLY SUBMITTED FOR APPROVAL TO THE CITY (COORDINATE WITH THE CONSULTANT AS REQUIRED), THE AFFECTED UTILITIES, AND ALL OTHER PERTINENT AGENCIES. APPROVAL OF CHANGES MUST BE RECEIVED BEFORE THE CONTRACTOR PERFORMS THE REQUESTED CHANGES/REVISIONS OR THEY WILL BE AT THE CONTRACTOR'S RISK.

EROSION & SEDIMENT CONTROL CONSTRUCTION SEQUENCE:

1. INSTALL CONSTRUCTION ENTRANCES WITH CRUSHED AGGREGATE BASE COURSE AT ALL LOCATIONS WHERE CONSTRUCTION TRAFFIC WILL BE ENTERING AND EXITING THE SITE. CONSTRUCTION ENTRANCE USED FOR REMOVAL OF ONSITE MATERIALS SHALL EXTEND TO THE LOADING AREA, BUT IN NO CASE SHALL ANY CONSTRUCTION ENTRANCE BE LESS THAN 50 FEET IN LENGTH OR 6''IN DEPTH. WIDTH SHALL NOT BE LESS THAN 15 FEET.

2. INSTALL SEDIMENT TRAPS (IF ANY ARE INDICATED ON THE PLANS). 3. GRADE IN DRAINAGE SWALES AS NECESSARY TO DIRECT DRAINAGE FROM DISTURBED AREAS TO SEDIMENT TRAPS OR PROTECTED

4. INSTALL SILT FENCES AT INDICATED LOCATIONS. INSTALL STRAW WATTLES AND GRAVEL BAG FILTERS AT STORM SEWER STRUCTURES AS THEY ARE CONSTRUCTED.

5. MULCH, LIME, FERTILIZE, SEED, SOD AND/OR STRAW ALL DISTURBED AREAS IMMEDIATELY FOLLOWING FINAL GRADING. CONTRACTOR SHALL COORDINATE BETWEEN THE EROSION CONTROL PLAN AND LANDSCAPE PLAN AS NECESSARY.

6. WASH DOWN CONSTRUCTION ENTRANCES AS NECESSARY TO LIMIT MUD AND DEBRIS BEING CARRIED ONTO ADJACENT ROADS. DRAINAGE FROM CONSTRUCTION ENTRANCE SHALL BE GRADED TO DRAIN TO SILT FENCES OR OTHER EROSION CONTROL MEASURES.

7. FOLLOWING COMPLETION OF PAVEMENT, STORM SYSTEM, AND MULCHING AND SEEDING ACTIVITIES; FLUSH OR CLEAN ALL SEDIMENT FROM STORM PIPE SYSTEM.

8. WHEN CONSTRUCTION IS COMPLETE AND UPON APPROVAL OF THE LOCAL GOVERNING AGENCY; REMOVE SILT FENCES AND GRAVEL BAG FILTERS, SPREAD AND GRADE COLLECTED MATERIALS, AND MULCH, LIME, FERTILIZE, SEED AND STRAW.

9. REMOVE SEDIMENT FROM DITCHES (PROPERLY DISPOSE OF IF OFFSITE) AND REGRADE TO DEPTH AND SIZE SHOWN ON THE GRADING PLAN. SPREAD AND GRADE COLLECTED MATERIALS, AND

10. REMOVE SEDIMENT TRAPS, AND SEED DISTURBED AREAS.

11. SEE ADEM CONSTRUCTION BEST MANAGEMENT PRACTICES (CBMPP) PLANS FOR ADDITIONAL INFORMATION RELATED TO ADEM PERMITTED SITES. THE REQUIREMENTS AND RECOMMENDATIONS IN THE CBMPP ARE TO BE FOLLOWED TO KEEP THE PROJECT CONFORMANCE WITH THE SITE'S ADEM NPDES PERMIT.

12. ALL EROSION CONTROL DEVISES USED BY THE CONTRACTOR MUST MEET OR EXCEED REQUIREMENTS FOUND IN THE ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL, AND STORMWATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN

EROSION CONTROL NOTES

1. TEMPORARY EROSION CONTROL DEVICES SHALL BE OBSERVED BY THE OWNER (OR OWNER'S REPRESENTATIVE) ON A PERIODIC BASIS, BUT NOT LESS THAN ONCE PER MONTH, AND THE GRADING CONTRACTOR SHALL MAKE ANY NECESSARY ADJUSTMENTS/REPAIRS AS REQUESTED BY THE OWNER.

2. THE MEASURES SHOWN ON THE PLANS ARE INTENDED FOR CONTROL DURING SITE CLEARING AND GRADING. ADDITIONAL MEASURES MAY BE REQUIRED AS SITE CONDITIONS CHANGE DURING CONSTRUCTION. ADDITIONAL MEASURES REQUIRED FOR COMPLIANCE SHALL BE INCLUDED IN BASE PRICING.

3. COORDINATE SEDIMENTATION AND EROSION CONTROL MEASURES WITH THE CLEARING AND GRUBBING OPERATION. THESE ACTIVITIES MUST OCCUR IN THE PROPER SEQUENCE IN RELATION TO ONE ANOTHER.

4. THE CONTRACTOR WILL INSTALL AND MAINTAIN THE EROSION AND SEDIMENTATION CONTROL MEASURES (BOTH TEMPORARY AND PERMANENT) AS A CONTINUING PROGRAM UNTIL THE SITE WORK IS COMPLETE AND THE SITE IS STABILIZED. THIS INCLUDES, BUT IS NOT LIMITED TO, REPAIRS OF DAMAGE FROM STORMS REGULAR MAINTENANCE, AND REMOVAL / DISPOSAL OF ACCUMULATED SILT. SILT FENCES AND OTHER EROSION CONTROL DEVICES SHOULD BE INSPECTED AFTER EVERY SIGNIFICANT RAIN EVENT

5. ALL EROSION CONTROL MEASURES COMPROMISED BY SEDIMENT BUILDUP, INCLUDING RIP RAP, SILT FENCE, HAY DAMS, CHECKS, OR OTHER DEVICES WILL BE REPAIRED OR REPLACED AS NECESSARY AT NO ADDITIONAL COST TO THE OWNER.

6. ANY PIPE, CREEK, OR OTHER STORM DRAINAGE FEATURE SHOWING EVIDENCE OF SEDIMENT ACCUMULATION SHALL BE CLEANED OUT. THE SEDIMENT REMOVED SHALL BE DISPOSED OF IN A LOCATION APPROVED BY THE OWNER OR HIS REPRESENTATIVE.

7. THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND PROPER DISPOSAL OF SILT/SEDIMENT (IF NOT REUSABLE ON-SITE) AND SHALL REMOVE ANY SILT/SEDIMENT BEYOND THE PROPERTY RESULTING FROM CONSTRUCTION OPERATIONS.

8. DO NOT DEPOSIT WASTE, LOOSE SOIL OR OTHER MATERIALS IN LIVE STREAMS, SWALES OR DRAINAGE WAYS, EXCEPT AS APPROPRIATE FOR EROSION CONTROL (E.G. LOG AND BRUSH CHECKS).

9. AFTER THE EROSION ACTIVITY HAS STABILIZED, THE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE TEMPORARY EROSION CONTROL DEVICES AT THE DIRECTION OF THE OWNER AND CLEANING UP AND DRESSING THE AREA TO THE SATISFACTION OF THE OWNER.

10. SILT FENCES ARE TEMPORARY EROSION CONTROL DEVICES THAT SHALL BE ERECTED OPPOSITE ERODABLE AREAS SUCH AS NEWLY GRADED FILL SLOPES AND ADJACENT TO STREAMS AND CHANNELS.

11. IN FLAT AREAS, SILT FENCES SHOULD BE CONSTRUCTED IN THE

SHAPE OF A HORSESHOE, WHENEVER POSSIBLE, SO AS TO AID IN PONDING AND TO FACILITATE SEDIMENTATION 12. SILT FENCING OR OTHER APPROPRIATE EROSION CONTROL MEASURES

AS DIRECTED ON THE PLANS SHALL BE PLACED AT THE DOWNSTREAM

13. HAY BALES ARE TEMPORARY EROSION CONTROL DEVICES THAT SHALL BE USED IN CONJUNCTION WITH OTHER EROSION CONTROL DEVICES. BALES MAY BE EITHER HAY OR STRAW CONTAINING FIVE (5) CUBIC FEET OF MATERIAL WEIGHING NOT LESS THAN

EDGE OF ALL DISTURBED AREAS.

THE HAY BALE DETAIL.

14. ALL STORM SEWER INLETS IN DISTURBED AREAS OR IN OTHER AREAS SUBJECT TO POTENTIAL INFLOW OF SEDIMENT SHALL BE PROTECTED AT A MINIMUM WITH WATTLES AND SILT FENCE.

15. ADDITIONAL SILT FENCES, WATTLES OR CHECK DAMS MAY BE REQUIRED TO CONTROL SILTING OR EROSION AS CONSTRUCTION PROGRESSES AND SHALL BE INCLUDED IN PRICING.

35 POUNDS AND SECURED WITH TWO STAKES AS SHOWN IN

16. ALL DISTURBED AREAS THAT WILL REMAIN INACTIVE FOR MORE THAN 13 DAYS MUST BE SEEDED AND MULCHED. 17. AS NECESSARY, ON-SITE PROTECTION IN ADDITION TO THE ABOVE MUST BE PROVIDED THAT WILL PREVENT SILT FROM LEAVING THE PROJECT CONFINES DUE TO EXTREME WEATHER CONDITIONS OR ACCIDENTS.

18. ANY DISTURBANCE OF SOIL AND VEGETATION OUTSIDE THE LIMITS OF THE CLEARING LINE WILL NOT BE PERMITTED UNDER ANY CONDITION. IF DISTURBANCE OCCURS, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REMEDIATE THE AREA AT NO ADDITIONAL COST TO THE WITH THE TABLE ON THE PLANS.

19. PREVENT RUN-ON AND RUN-OFF FROM SOIL PILES BY SURROUNDING PILE WITH WATTLES AND/OR SILT FENCE.

20. PREVENT AND CONTROL SOIL EROSION AND GULLYING WITHIN THE PROPERTY COVERED BY CONTRACT AND THE ADJACENT PROPERTIES AS A RESULT OF CONSTRUCTION.

21. CONSTRUCT ROADSIDE DITCHES AS REQUIRED DURING ROAD CONSTRUCTION TO ALLOW STORM RUNOFF TO DRAIN.

22. ALL CONSTRUCTION STREAM CROSSINGS SHALL HAVE A 24" DIAMETER PIPE (OR LARGER, AS SUGGESTED BY THE CONSULTANT) INSTALLED TO CONVEY RUNOFF. THE AREA WHERE THE ROAD CROSSES THE STREAM SHALL BE RIP-RAPPED AS REQUIRED TO PREVENT SEDIMENT WASH-OFF FROM THE ROAD.

23. AN ACCESS ROUTE SUFFICIENT TO ALLOW THE USE OF APPROPRIATE MAINTENANCE EQUIPMENT SHALL BE EXTENDED TO EACH STRUCTURAL EROSION CONTROL DEVICE.

24. THE CONTRACTOR IS RESPONSIBLE FOR PROPER COLLECTION, STORAGE, AND DISPOSAL OF SOLID AND SANITARY WASTES. DISPOSAL OF THESE WASTES SHALL BE OFF-SITE IN AN APPROPRIATELY PERMITTED FACILITY.

25. THE CONTRACTOR IS RESPONSIBLE FOR THE PROPER ON-SITE HANDLING USE, STORAGE, AND DISPOSAL OF PAINTS, SOLVENTS, CHEMICALS, PESTICIDES, HERBICIDES, FERTILIZERS, OILS, GREASE, FUEL, AND OTHER HAZARDOUS MATERIALS USED DURING THIS PROJECT. APPROPRIATE SPILL PREVENTION SHOULD BE PROVIDED FOR ANY CHEMICAL OR HAZARDOUS MATERIAL TO REDUCE EXPOSURE AND AND CONTAMINATION OF SOILS, STREAMS, CHANNELS, AND STORM WATER RUNOFF.

26. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER SUITABLE METHODS OF CONTROL. THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.

27. THE CONTRACTOR MUST REVIEW AND MAINTAIN A COPY OF THE NPDES PERMIT COMPLETE WITH ALL CONDITIONS, ATTACHMENTS, EXHIBITS, AND PERMIT MODIFICATIONS IN GOOD CONDITION AT THE CONSTRUCTION SITE. THE COMPLETE PERMIT MUST BE AVAILABLE FOR REVIEW UPON REQUEST.

28. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL ON SITE. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.

PAVEMENT CONSTRUCTION:

CONSTRUCTION, LATEST EDITION.

<u>GENERAL NOTES:</u> 1. ALDOT, LATEST EDITION, SHALL MEAN ALABAMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY

CRUSHED AGGREGATE BASE COURSE PLANT MIXED SHALL PLACED IN ACCORDANCE WITH SECTION 301, ALDOT, LATEST EDITION. ALL MATERIALS SHALL BE IN ACCORDANCE WITH SECTION 825, TYPE B, 100% COMPACTION.

3. PORTLAND CEMENT CONCRETE PAVEMENT SHALL BE PLACED IN ACCORDANCE WITH SECTION 450, ALDOT, LATEST EDITION. 4. BITUMINOUS CONCRETE BINDER LAYER SHALL BE PLACED IN ACCORDANCE WITH SECTION 424-B, ALDOT, LATEST EDITION.

5. BITUMINOUS CONCRETE WEARING SURFACE LAYER SHALL PLACED IN ACCORDANCE WITH SECTION 424-A, ALDOT, LATEST

6. THE SITE SHALL BE CLEARED, AND ALL UNSUITABLE MATERIALS

REMOVED PRIOR TO PLACING AND COMPACTING ENGINEERED FILL. 7. ALL SUBGRADES SHALL BE CLEARED AND GRUBBED, SCARIFIED TO A DEPTH OF 6", AND THEN RECOMPACTED TO 100% OF THE MAXIMUM DRY DENSITY, PLUS OR MINUS 2% OF OPTIMUM MOISTURE (ASTM-D6798).

8. IN ROCK EXCAVATION, A MINIMUM OF 1 FOOT OF SOIL SHALL BE PLACED OVER ROCK PRIOR TO PLACEMENT OF BASE MATERIAL. 9. CONCRETE WHEEL STOPS ARE TO BE PRECAST 2500 PSIMIN. COMPRESSIVE STRENGTH CONCRETE 5"HX9"WX72"L. WHEEL STOPS ARE TO BE SECURELY ATTACHED TO PAVEMENT WITH A MINIMUM OF 2-3/8"X18" GALVANIZED STEEL DOWLS EMBEDDED IN WHEEL STOPS 11" FROM ENDS, AND FIRMLY BONDED TO WHEEL STOPS AND PAVEMENT.

10. PAVEMENT MARKING PAINT SHALL BE ALKYD-RESIN TYPE, READY-MIXED, COMPLYING WITH FS TT-P-115, TYPE I, AASHTO M-248, TYPE N. OR LATEX WATER-BASED EMULSION, READY-MIXED, COMPLYING WITH FS TT-P-1952. APPLY PAVEMENT MARKING PAINT WITH MECHANICAL EQUIPMENT, PER THE MANUFACTURES RECOMMENDATIONS TO PRODUCE PAVEMENT MARKINGS OF DIMENSIONS INDICATED ON THE PLANS WITH UNIFORM, STRAIT EDGES, AND MINIMUM WET FILM THICKNESS OF 15 MILS. (0.4MM)

11. PAINTING OF PAVEMENT MARKINGS SHALL NOT BEGIN UNTIL PAVEMENT HAS ENDURED ADEQUATE CURING TIME AND UNTIL THE PAVEMENT SURFACE HAS BEEN POWER BROOMED AND HAND SWEPT AS NECESSARY TO REMOVE LOOSE MATERIAL AND SOIL.

12. THE CONTRACTOR WILL BE RESPONSIBLE FOR CLEANING DIRT AND DEBRIS FROM ADJOINING STREETS DURING CONSTRUCTION. ANY DAMAGE TO ADJOINING AND EXISTING STREETS MUST BE REPAIRED BY THE CONTRACTOR DURING CONSTRUCTION.

13. UNLESS NOTED OTHERWISE, ALL PAVEMENT CUTS SHALL BE REPAIRED WITH MATERIAL AND DEPTHS IN KIND TO THAT REMOVED AND SHALL MEET PATCHING REQUIREMENTS OF THE MUNICIPALITY. 14. TEMPORARY AND PERMANENT PATCHING SHALL MEET THE REQUIREMENTS OF THE GOVERNING ENTITY

REINFORCED CONCRETE NOTES:

1. ALL CONCRETE SHALL BE AIR ENTRAINED 4000 PSIMINIMUM COMPRESSIVE STRENGTH AT 28 DAYS, (CLASS "A."), UNLESS NOTED OTHERWISE ON THE PLANS OR REQUIRED OTHERWISE BY GOVERNING

2. ALL CONSTRUCTION JOINTS SHALL BE CONSTRUCTED WITH CONTINUOUS SHEAR KEYS IN ACCORDANCE WITH THE SHEAR KEY DETAIL ON THE PLANS.

3. ALL REINFORCING STEEL GOVERNED BY THE CIVIL ENGINEERING DRAWINGS, SHALL BE GRADE 60 DEFORMED BARS, AND SHALL CONFORM TO STM A615, FOR BILLET STEEL (UNLESS NOTED OTHERWISE).

WITH THE TABLE ON THE PLANS. 5. CONCRETE AIR CONTENT AND SLUMP SHALL BE IN ACCORDANCE

4. LAP SPLICES AND BAR EMBEDMENT SHALL BE IN ACCORDANCE

6. ALL REINFORCING BARS SHALL BE SHOP BENT IN ACCORDANCE WITH THE TABLE ON THE PLANS. HEATING OF REINFORCING BARS TO BEND THEM OR STRAIGHTEN THEM WILL NOT BE ALLOWED.

7. ALL WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185, SMOOTH FABRIC WITH AN ASTM YIELD STRENGTH OF 65,000 PSI. 8. ALL EXPOSED CONCRETE MUST BE TINTED WITH ALABAMA OCHRE

WALL (D) | NOMINAL

4''-7''

SEE

SLUMP TABLE

TYPE OF CONSTRUCTION

BACKFILL CONCRETE

REINFORCED FOOTINGS AND SLABS

REINFORCED WALLS AND PAVEMENTS 4

14''-20''

THICKNESS| KEY SIZE

8"-13" 2" X 4<u>"</u>

SHEAR KEY DETAIL

2'' X 2''

1 1/2''

3 1/2''

 7
 1/4"
 6
 3/4"
 1
 1/2"

 9
 1/4"
 8
 3/4"
 1
 1/2"

 3
 1/2"
 3"
 3
 1/2"

 5
 1/2"
 5"
 3
 1/2"

 4" X 8"
 7 1/4"
 6 3/4"
 3 1/2"

 4" X 10"
 9 1/4"
 8 3/4"
 3 1/2"

4" X 12" | 11 1/4" | 10 3/4" | 3 1/2"

2" X 6" 5 1/2" 2" X 8" 7 1/4"

SLUMP (INCHES)

MIN.

MAX.

1 1/2'

EARTHWORK GENERAL NOTES:

1. THE SITE TOPOGRAPHY AND OTHER TOPOGRAPHIC DATA SHOWN ON THE PLANS OR INCLUDED IN THE SPECIFICATIONS ARE FOR THE INFORMATION OF THE CONTRACTOR. THE CONTRACTOR SHALL MAKE SUCH ADDITIONAL INVESTIGATIONS AS REQUIRED TO ACQUAINT HIMSELF ADEQUATELY WITH THE SITE, INCLUDING SUBSURFACE SOIL CONDITIONS, FOR PREPARATION OF HIS BID, AND FOR THE SUCCESSFUL EXECUTION OF THE WORK.

2. UNLESS INDICATED OTHERWISE ON THE PLANS, ALL PROPOSED CONTOURS AND ALL PROPOSED SPOT ELEVATIONS SHOWN ARE TO FINISHED GRADE. THE CONTRACTOR SHALL MAKE SUBGRADE ADJUSTMENTS FOR TOPSOIL, PAVING, BUILDING PAD, ETC.

3. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR THE PROTECTION OF HIS WORK. SUCH GRADING AS IS REQUIRED FOR THIS PURPOSE SHALL BE THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER. THE OWNER MAY DIRECT THE CONTRACTOR TO PERFORM SUCH GRADING AND DRAINAGE AS IS NECESSARY TO PREVENT SURFACE RUNOFF FROM DAMAGING THE WORK.

4. ALL EARTH FILL SHALL BE COMPACTED IN ACCORDANCE WITH PROJECT SPECIFICATIONS, GEOTECHNICAL RECOMMENDATIONS, OR GOVERNING MUNICIPALITY STANDARDS, WHICHEVER IS GREATER.

5. ALL EARTH FILL SHALL BE PLACED IN UNIFORM LAYERS OR LIFTS NOT EXCEEDING 6" IN COMPACTED THICKNESS, UNLESS INDICATED OTHERWISE ON THE PLANS.

6. ALL EARTH FILL SHALL BE PLACED IN ACCORDANCE WITH SECTION 210, ALDOT, LATEST EDITION. ALL EARTH FILL UNDER BUILDINGS SHALL ALSO MEET REQUIREMENTS OF THE ARCHITECT'S PLANS AND SPECIFICATIONS.

7. IF A GEOTECHNICAL REPORT HAS BEEN PREPARED FOR THE SITE.

PREPARATION RECOMMENDATIONS SPECIFIED WITHIN THIS DOCUMENT, UNLESS MORE STRINGENT REQUIREMENTS ARE GIVEN ON THE PLANS. 8. ANY EXCESS EXCAVATION CREATED BY GRADING OPERATIONS SHALL BE CONSIDERED WASTE AND SHALL BE HAULED OFF AND

THE CONTRACTOR SHALL BE RESPONSIBLE FOR FOLLOWING THE SITE

NEGOTIATED WITH OWNER TO DISPOSE OF ON SITE. 9. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING DRAINAGE AWAY FROM THE EXISTING AND PROPOSED BUILDINGS, CONCRETE PAVING, AND SIDEWALKS. THERE SHALL BE NO PONDING OF WATER ON THE

DISPOSED OF LEGALLY AT THE CONTRACTOR'S EXPENSE OR

10. THE CONTRACTOR SHALL VERIFY THE LOCATIONS AND CONDITIONS OF ALL UTILITIES TO BE UTILIZED FOR CONSTRUCTION SERVICE HOOK UPS, STORM SEWERS, AND SANITARY SEWERS PRIOR TO PROCEEDING WITH THE LAYING OF PIPE. THE CONTRACTOR SHALL NOTIFY THE PROJECT CONSULTANT IMMEDIATELY OF ANY CONFLICTS OR DISCREPANCIES. ALL SERVICE CONNECTIONS TO UTILITIES SHALL BE APPROVED BY THE RESPECTIVE UTILITY AND SHALL CONFORM TO THE LATEST SPECIFICATIONS.

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL UTILITY LOCATIONS WITH THE LOCAL UTILITIES. CONTACT WITH EACH UTILITY SHOULD BE MADE BY THE CONTRACTOR BEFORE ANY CONSTRUCTION BEGINS ON THIS PROJECT.

12. CONTRACTOR TO COORDINATE ANY UTILITY SHUTOFFS WITH OWNER 7 DAYS PRIOR TO WORK. ALL EFFORTS SHOULD BE MADE TO MINIMIZE SHUTOFF TO UTILITIES SERVING OTHER FACILITIES.

13. UNSTABLE AND PUMPING SUBGRADE CONDITIONS MAY OCCUR DURING SITE PREPARATION AND UNDERCUTTING OPERATIONS. PROPER PROTECTION OF SUBGRADE, DRAINAGE, AND DEWATERING WILL BE CRITICAL TO SITE CONSTRUCTION EFFORTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MINIMIZE EQUIPMENT TRAFFIC ACROSS THE SITE, EVERY EFFORT SHALL BE MADE LOCALIZE EQUIPMENT TAGGING AND TRAFFIC TO SPECIFIC AREAS AND LIMIT THE AMOUNT OF UNDERCUTTING AND SOIL STABILIZATION THAT MAY BE NEEDED.

14. THE CONTRACTOR IS TO COORDINATE ALL EARTHWORK WITH THE GEOTECHNICAL EVALUATION. IF NO GEOTECHNICAL REPORT HAS BEEN PERFORMED, THE CONSULTANT ASSUMES NO LIABILITY IN SITE FEATURES THAT RELY ON GEOTECHNICAL EVALUATIONS SUCH AS PAVEMENT BUILD-UP (DESIGN), WALLS, ETC. SPECIFIC CONSTRUCTION CONCERNS AND ACTUAL CONSTRUCTION MEANS AND METHODS ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND FAMILIARIZING HIMSELF WITH SITE AND WITH THE GEOTECHNICAL REPORT IF ONE IS PERFORMED AT A LATER DATE.

| CONCRETE AIR CONTENT TABLE | | | | | |
|---|--|--|--|--|--|
| NOMINAL MAXIMUM SIZE COURSE AGGREGATE (INCHES) | TOTAL AIR CONTENT PERCENT BY VOLUME | | | | |
| 3/4 | 4 TO 8 | | | | |
| 1 | 3.5 TO 6.5 | | | | |
| 1 1/2 | 3 TO 6 | | | | |

| 1 | | | | | | | | |
|---------------------|--------|------|--------|-------|-------|------|------------|-------------|
| BAR | BEND | TABI | _E AN | ND EN | 1BEDN | MENT | TAB | LE |
| BAR SIZE (d) | #3 | #4 | #5 | #6 | #7 | #8 | * 9 | * 10 |
| DIAMETER | 0.375" | 0.5" | 0.625" | 0.75" | 8.75" | 10'' | 11.28'' | 1.27" |
| D | 2.25" | 3.0" | 3.75" | 4.50" | 5.25" | 6.0" | 9.02" | 10.16" |
| Α | 6" | 8'' | 10'' | 12'' | 14" | 16'' | 19'' | 22" |
| J | 3" | 4'' | 5" | 6'' | 7" | 8'' | 11.25" | 12.75" |
| LAP SPACE LENGTH | 16'' | 16'' | 18'' | 26'' | 35" | 45'' | 57" | 73'' |
| EMBEDMENT LENGTH | 12'' | 12'' | 14'' | 20" | 27'' | 35" | 44" | 56'' |

| MONUMENT | | N/A |
|-------------------------------|----------------------------------|-------------------------------------|
| MAJOR CONTOURS | 690 | |
| MINOR CONTOURS | 544 | <u> </u> |
| SPOT ELEVATIONS | 16.29 | +503.26 |
| DEMOLITION | N/A | XXXXX |
| RIGID CONCRETE PAVING | \[\sigma\] \[\sigma\] \[\sigma\] | |
| CONCRETE SIDEWALK | | |
| HEAVY DUTY ASPHALT | N/A | |
| LIGHT DUTY ASPHALT | N/A | |
| PROPERTY LINE | | |
| FENCE | × × × | × × × |
| COMMUNICATION BOX | Пооми | Пооми |
| ELECTRIC BOX | □ □ EB | <u> </u> |
| SANITARY SEWER MANHOLE | | □ □ EB |
| POWER POLE | °P. POLE | 0 |
| LIGHT POLE | ° LP | ° LP |
| WATER VALVE | ° WV | LP |
| FIRE HYDRANT | ° FH | |
| WATER METER | <u> </u> | M |
| | ° GV | |
| GAS VALVE | | N/A |
| SIGN | °SIGN | 0 |
| GUY WIRE | | N/A |
| GRATE INLET | | |
| STORM MANHOLE | | |
| SINGLE WING INLET | | |
| DOUBLE WING INLET | | |
| HEADWALL | | |
| STORM SEWER LINE | ======= | |
| RAIN LEADER | N/A | |
| DOMESTIC WATER LINE | D w | DW |
| UNDERGROUND TELEPHONE LINE | т | —т— |
| FIBER OPTIC LINE | F0 | ———F0——— |
| OVERHEAD UTILITY LINE | // | |
| UNDERGROUND ELECTRIC LINE | P | ——Р—— |
| SANITARY SEWER LINE | s | ——s— |
| WATER LINE | w | w |
| NATURAL GAS LINE | G | |
| TREES | \odot | SEE LANDSCAPE PLAN IF APPLICABLE |
| TEMPORARY SILT FENCE | N/A | |
| TEMPORARY STONE CHECK DAM | N/A | 388 |
| TEMPORARY STRAW WATTLE | N/A | • |
| PUMP STATION | Ops | P |
| FORCE MAIN | ——— ғм ——— | —— |
| FIRE WATER LINE | FW | ——-FW—— |
| FIRE DEPARTMENT CONNECTION | °FDC | °FDC |
| TRANSFORMER PAD | T | T |
| TRAFFIC SIGNAL POLE | ^O TSP | OTSP |
| FORCE MAIN WITH ARROW | | N/A |
| CHILLED WATER | cw | N/A |
| CHILLED WATER RETURN | CWR | N/A |
| STEAM LINE | STM | N/A |
| CABLE LINE | | N/A |
| UNKNOWN UTILITIES | u | N/A |
| TRAFFIC CONTROL | TC | N/A |
| STREET LIGHT | LT | N/A |
| *EXISTING: PRESENT CONDITIONS | PRIOR TO CONSTE | RUCTION |
| **PROPOSED: PROPOSED BY TH | E SCUPE OF WORK | |
| | | |

LEGEND

EXISTING*

PROPOSED**

DESCRIPTION

| | 544 | <u> </u> |
|------------------------|---|---|
| | 16.29 | +503.26 |
| | N/A | |
| INIC | | XXXXX |
| ING | · · · · · · · · · · · · · · · · · · · | (-a' |
| K | | 2011/2011/2011 |
| LT | N/A | |
| .T | N/A | |
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| | ° LP | ° LP |
| | ° WV | H |
| | °FH | |
| | M | M |
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| | | SEE LANDSCAPE PLAN |
| | \bigcirc | IF APPLICABLE |
| ICE | (-)3 N/A | |
| ICE CK DAM | | IF APPLICABLE |
| | N/A | IF APPLICABLE |
| CK DAM | N/A N/A | IF APPLICABLE |
| CK DAM | N/A N/A N/A | F APPLICABLE |
| CK DAM | N/A N/A N/A OPS | F APPLICABLE H P |
| CK DAM | N/A N/A N/A OPS | P FW FW FW FM FW FW FM FW FW FM FW FM FW FM FW FM FW FM FW FW |
| TTLE | N/A N/A N/A OPS | P FM OFDC |
| CK DAM ATTLE ECTION | N/A N/A N/A N/A OPS ——————————————————————————————————— | P FDC FDC FAPPLICABLE P FW FDC |
| ECTION EE | N/A N/A N/A N/A OPS | P P FW OTSP |
| CK DAM ATTLE ECTION | N/A N/A N/A N/A OPS | P P FN OFDC T OTSP N/A |
| ECTION ECTION ECTION | N/A N/A N/A N/A OPS | F APPLICABLE WY P FW OFDC T OTSP N/A N/A |
| ECTION EE | N/A N/A N/A N/A OPS | P P FM OFDC T OTSP N/A N/A N/A |
| ECTION ECTION ECTION | N/A N/A N/A N/A OPS | F APPLICABLE WY P FW OFDC T OTSP N/A N/A |
| ECTION ECTION ECTION | N/A N/A N/A N/A OPS | P P FM OFDC T OTSP N/A N/A N/A |
| ECTION ECTION ECTION | N/A N/A N/A N/A N/A OPS | F APPLICABLE WY P FW FDC T TSP N/A N/A N/A N/A |
| ECTION ECTION ECTION | N/A N/A N/A N/A N/A OPS | F APPLICABLE |

GENERAL NOTES

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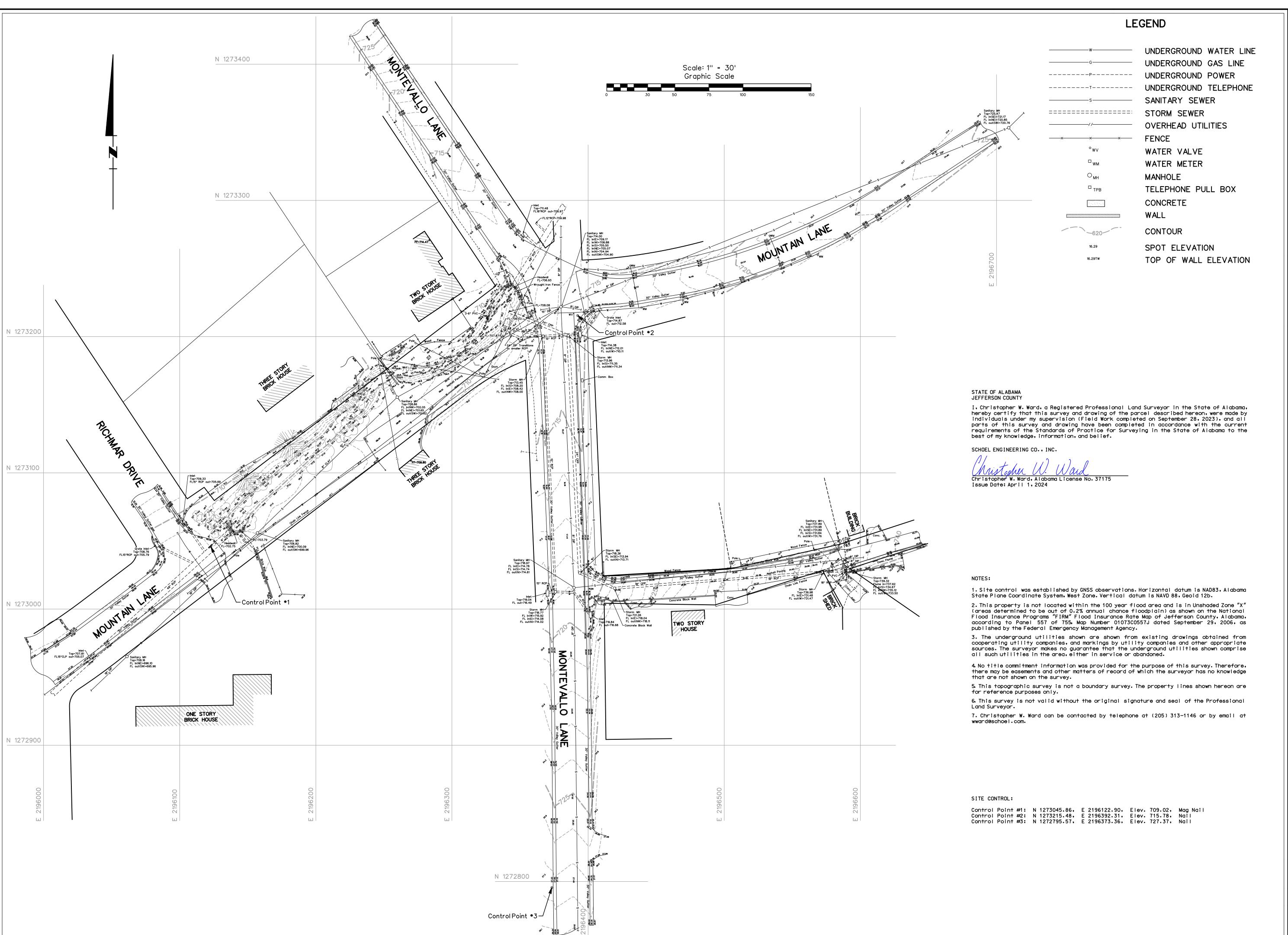
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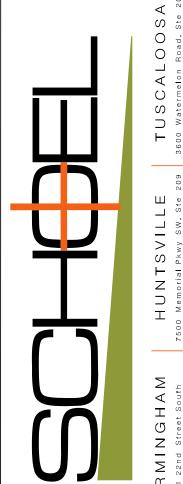
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***ADDITIONAL NOTES ON EACH SHEET IN THIS PLAN SET MUST BE FOLLOWED.





No. 37175
PROFESSIONAL

LAND
SURVEYOR

NOTHER

NOTE OF THE MARKET STATE OF THE MARKET

MOUNTAIN LN AND MONTEVALLO LI AREA DRAINAGE IMPROVEMENTS MOUNTAIN BROOK, ALABAMA

DRAWING SET:

BID SET 04/24/24

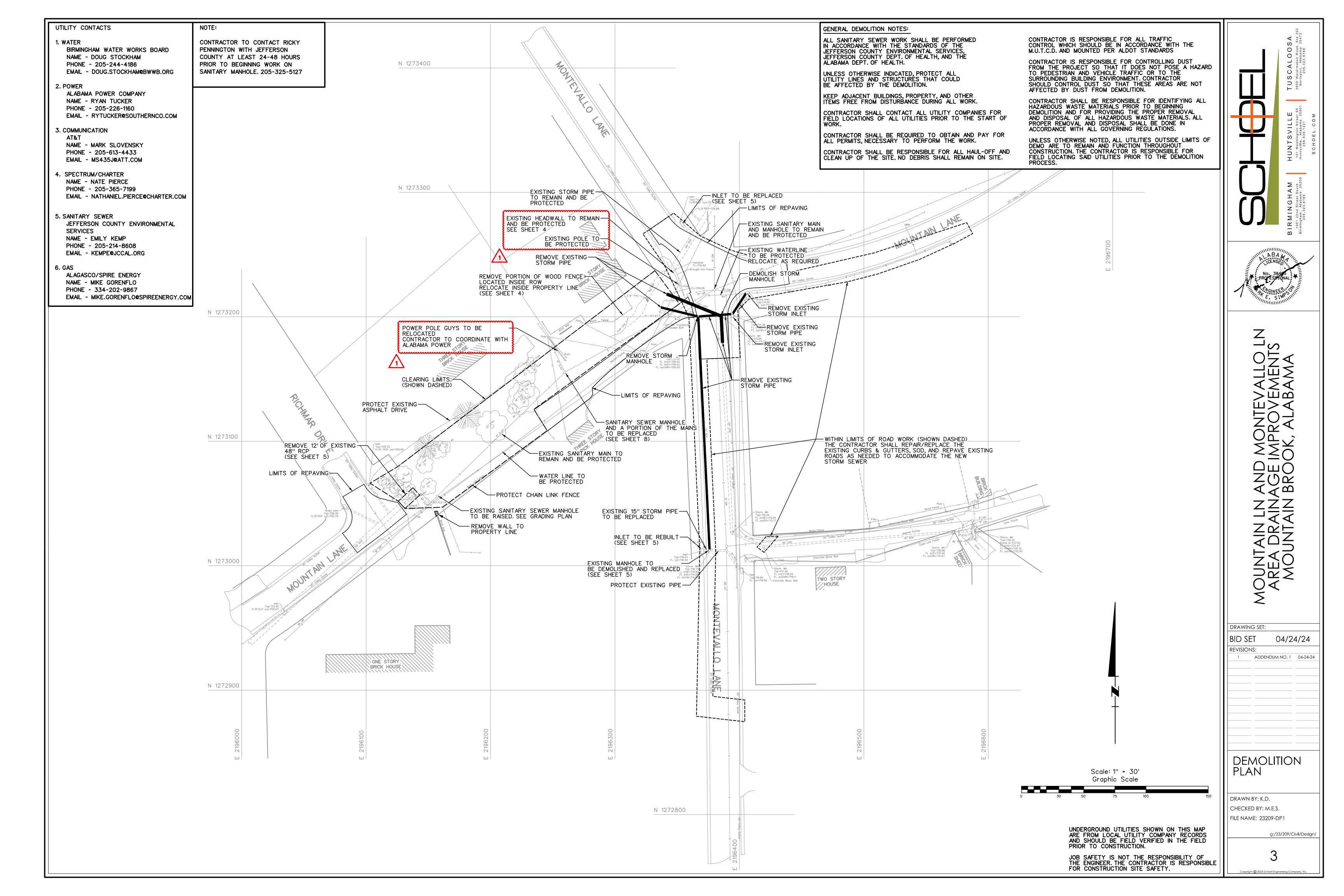
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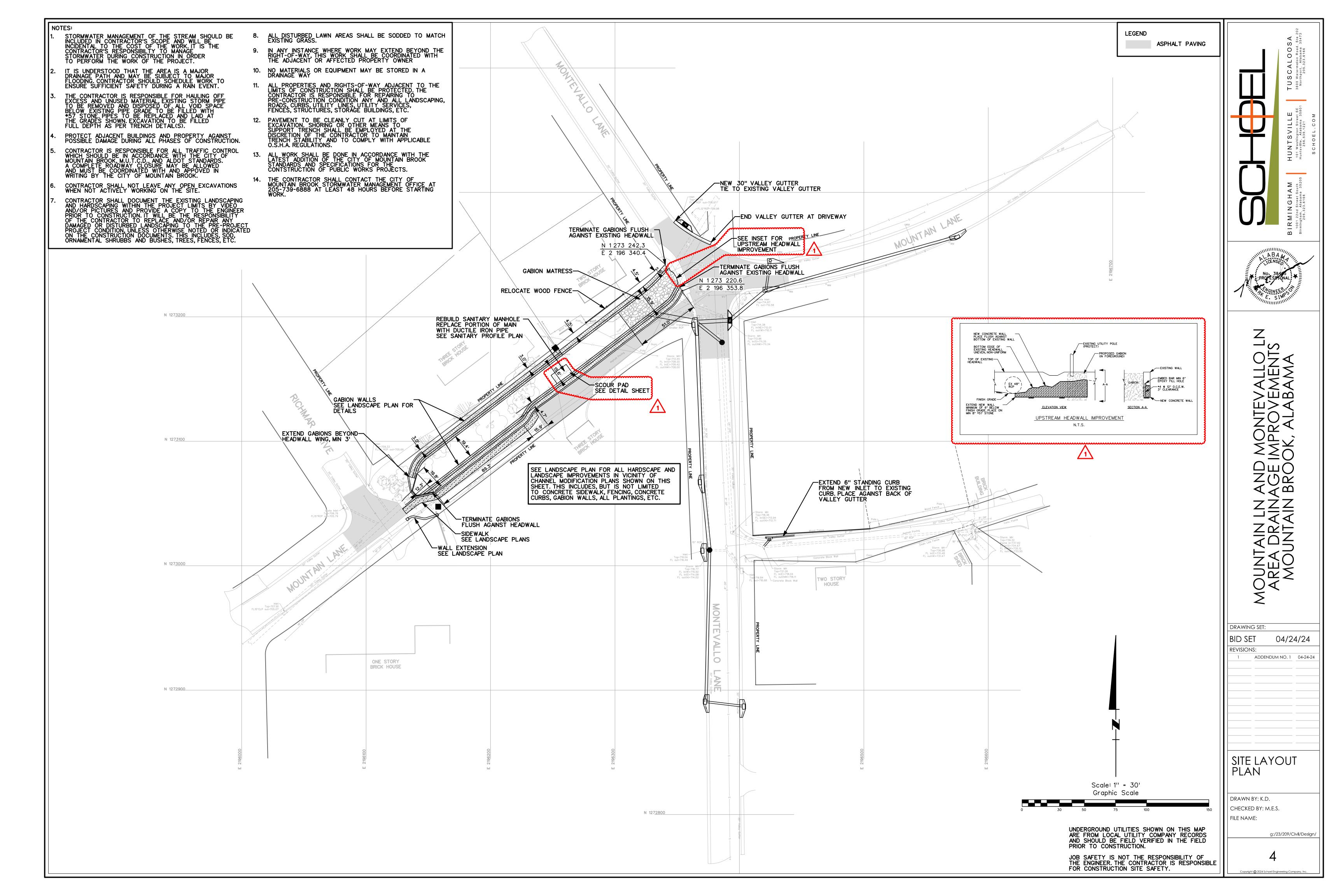
TOPOGRAPHIC SURVEY

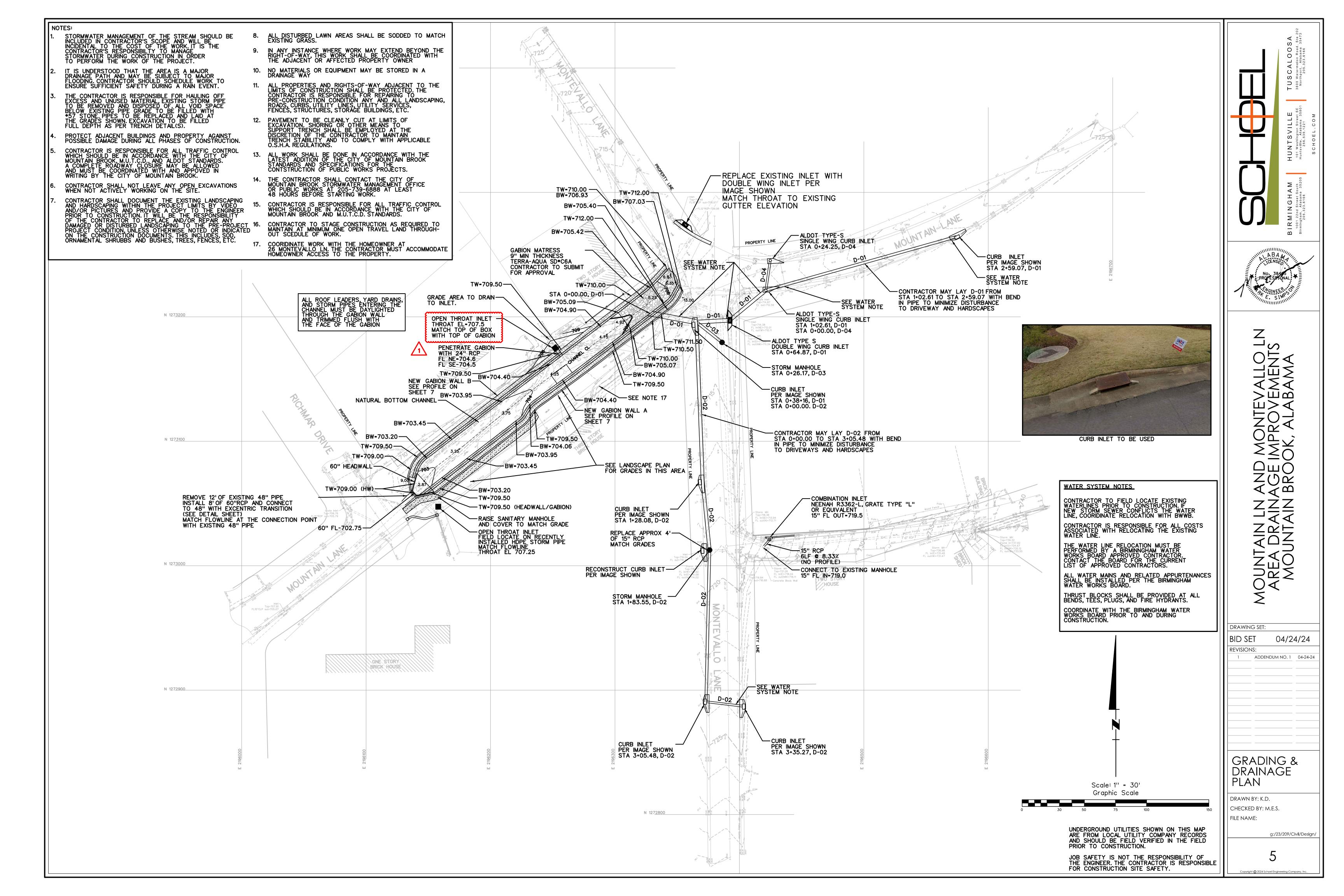
DATE: APRIL 2024
DRAWN BY: WTM
CHECKED BY: CWW
FIELD BOOK: #3309, 3324
FIELD CREW: JSG
FILE NAME: 23209_Working Topo
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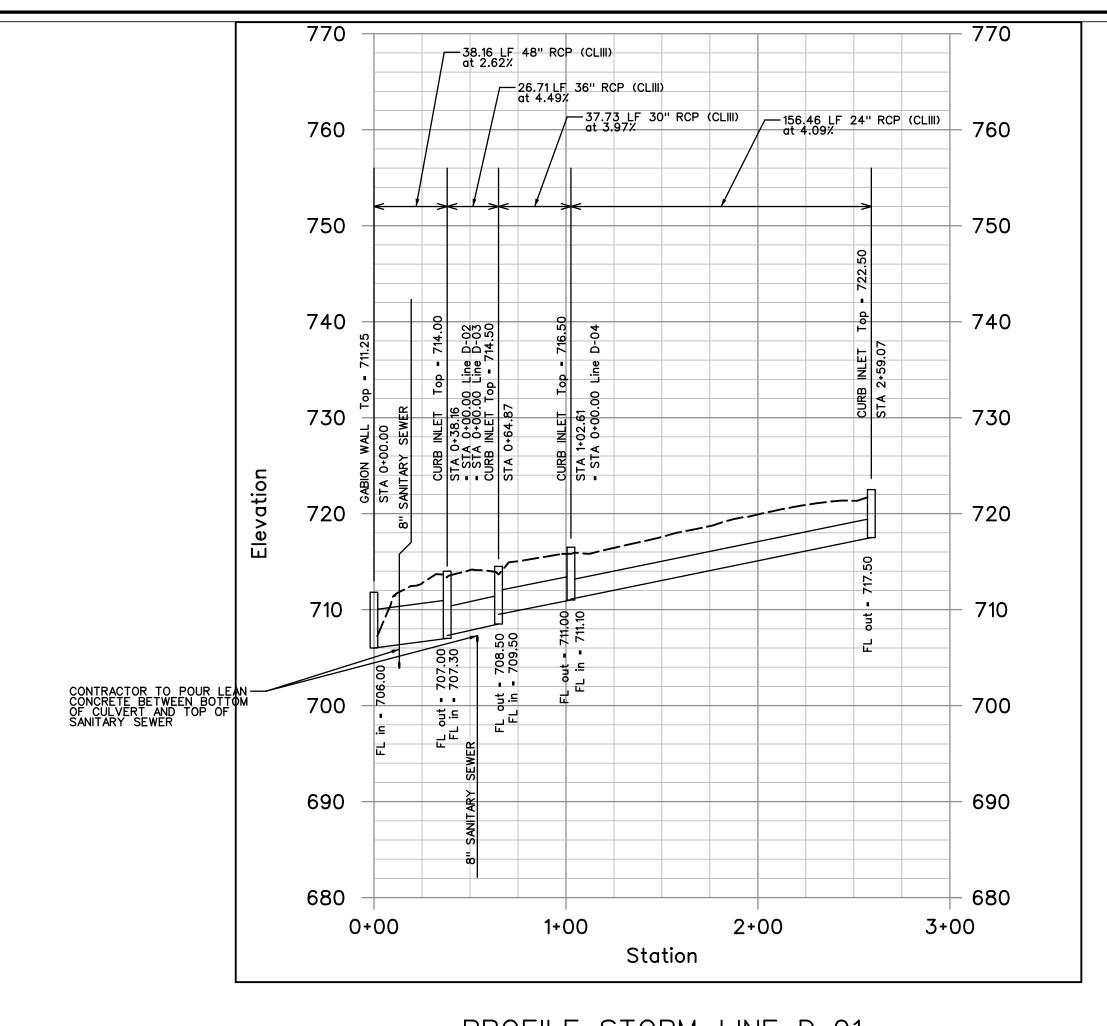
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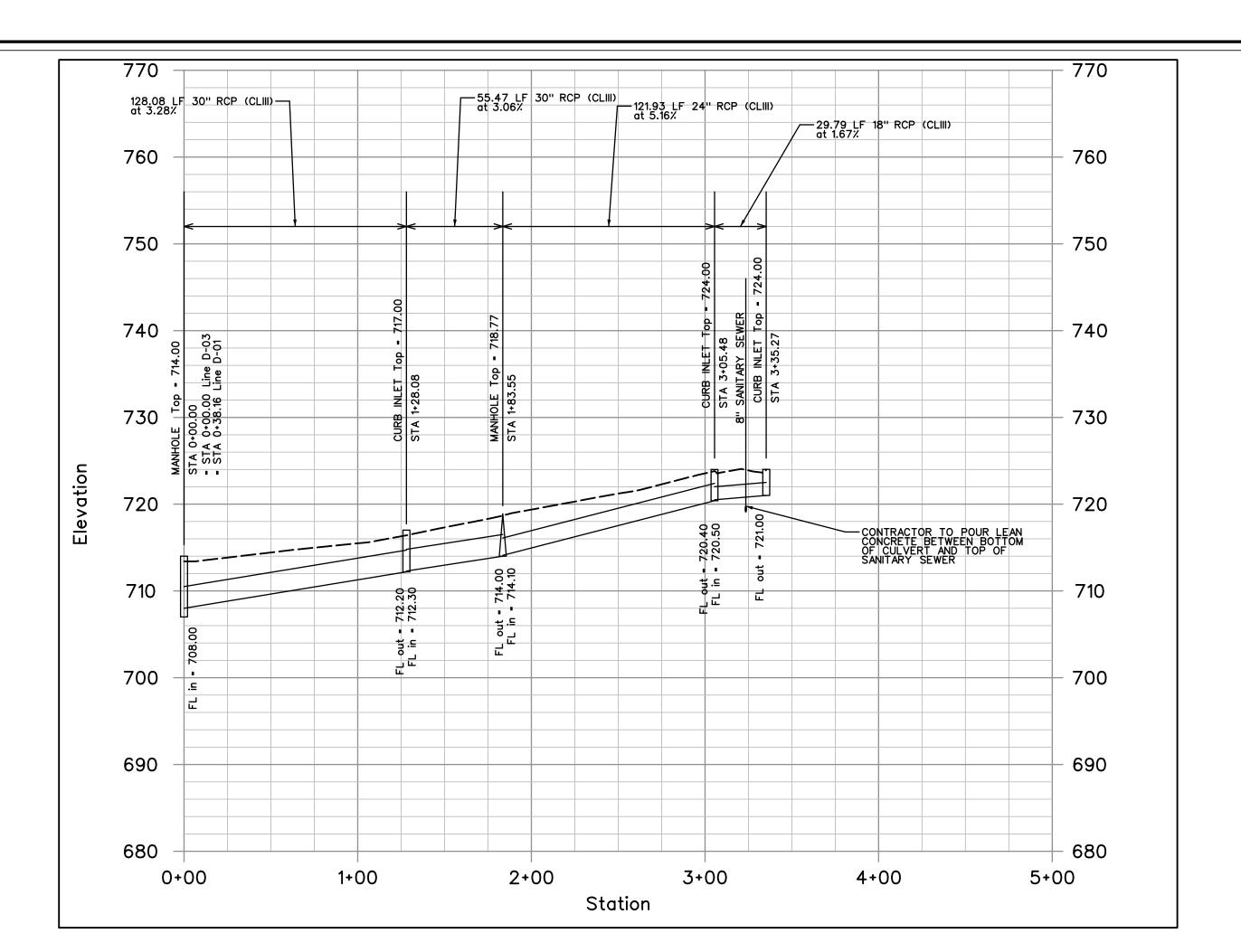
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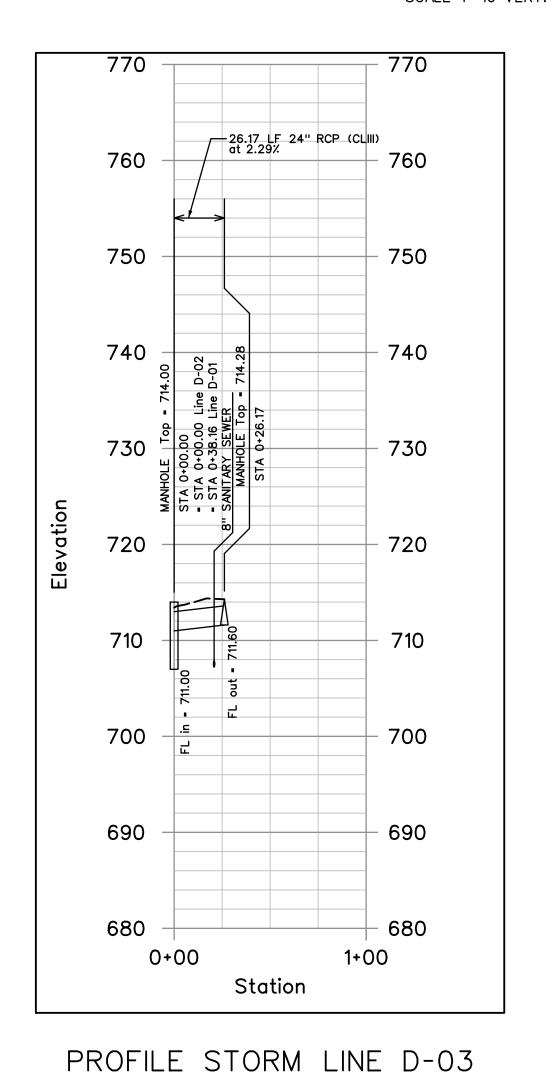


PROFILE STORM LINE D-01

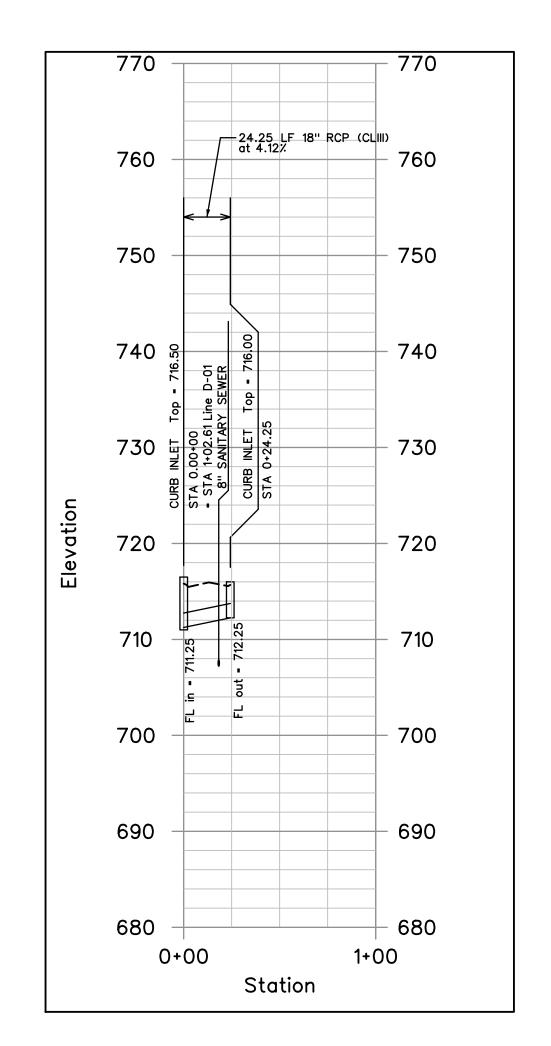
SCALE 1"=50" HORZ.
SCALE 1"=10" VERT.

PROFILE STORM LINE D-02

SCALE 1"=50" HORZ.
SCALE 1"=10" VERT.



SCALE 1"=50' HORZ. SCALE 1"=10' VERT.



PROFILE STORM LINE D-04

SCALE 1"=50" HORZ.

SCALE 1"=10" VERT.

UNDERGROUND UTILITIES SHOWN ON THIS MAP ARE FROM LOCAL UTILITY COMPANY RECORDS AND SHOULD BE FIELD VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION.

JOB SAFETY IS NOT THE RESPONSIBILITY OF THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION SITE SAFETY.

6

FILE NAME: 23209-STORMPRO1

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MOUNTAIN LN AND MONTEVALLO LN
AREA DRAINAGE IMPROVEMENTS
MOUNTAIN BROOK, ALABAMA

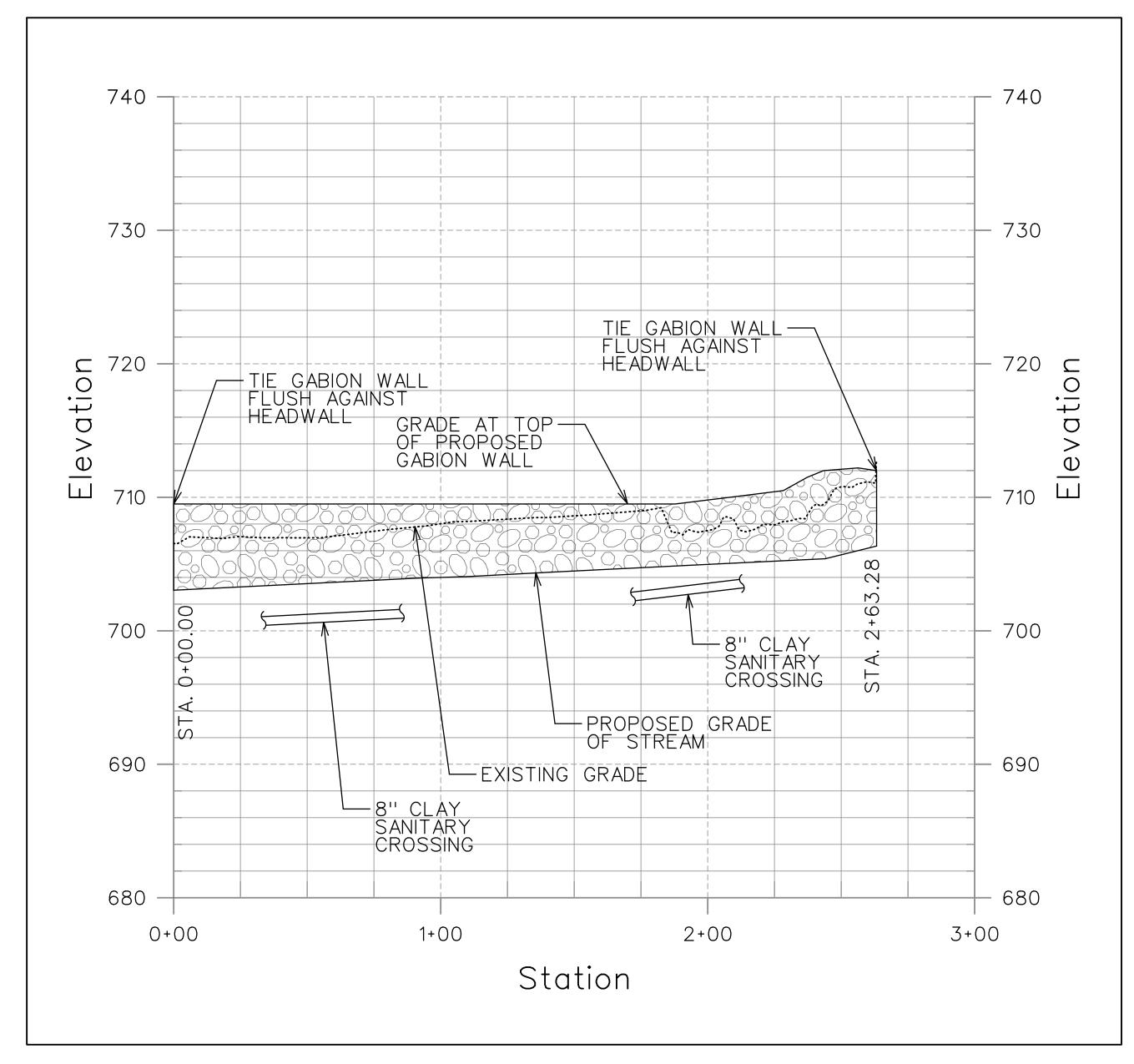
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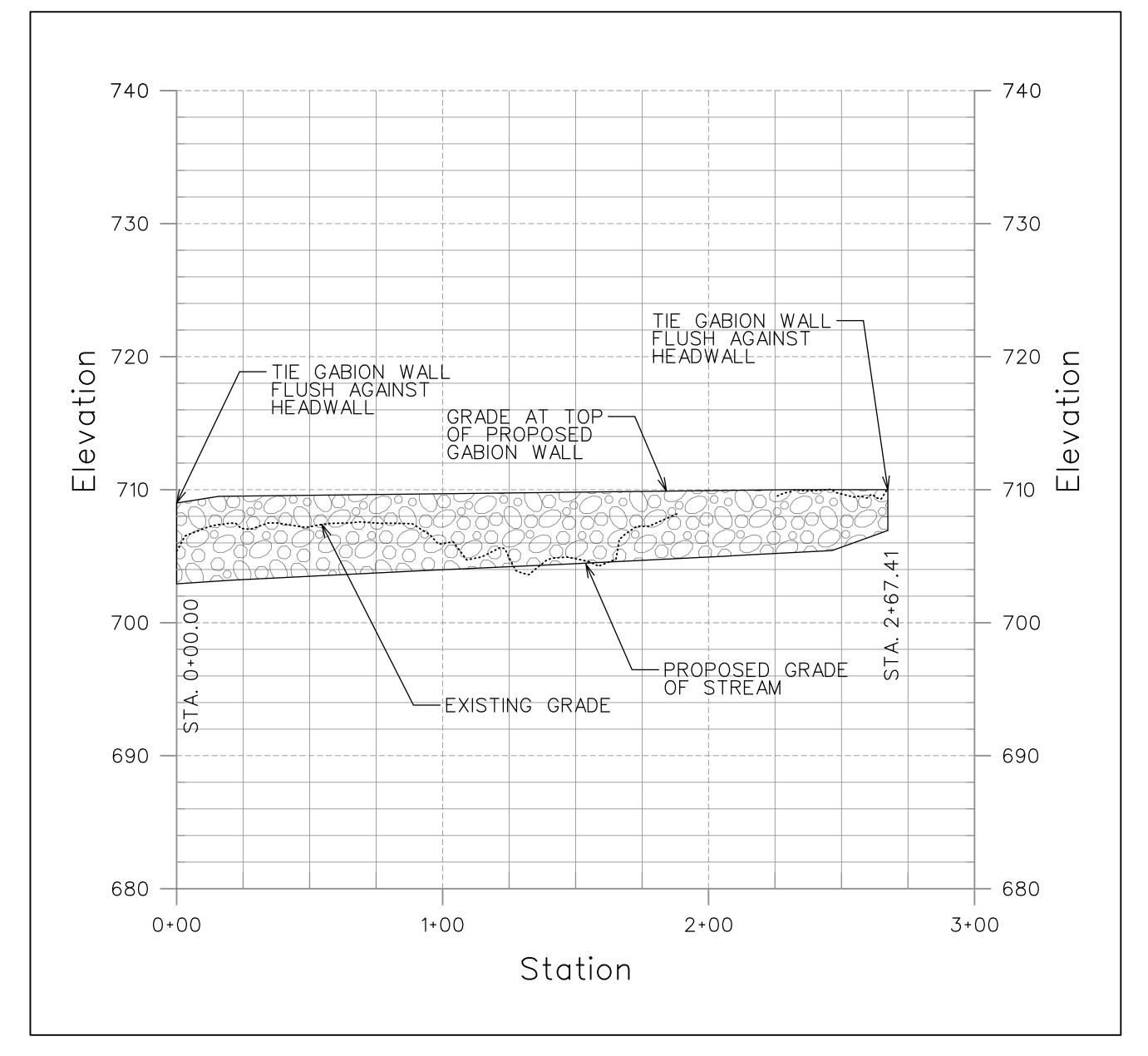
STORM

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CHECKED BY: M.E.S.

PROFILES





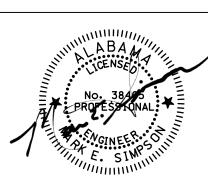
PROFILE WALL A

SCALE 1"=50" HORZ. SCALE 1"=10 VERT. PROFILE WALL B

SCALE 1"=50' HORZ. SCALE 1"=10' VERT.

UNDERGROUND UTILITIES SHOWN ON THIS MAP ARE FROM LOCAL UTILITY COMPANY RECORDS AND SHOULD BE FIELD VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION.

JOB SAFETY IS NOT THE RESPONSIBILITY OF THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION SITE SAFETY.



MOUNTAIN LN AND N AREA DRAINAGE IN MOUNTAIN BROO

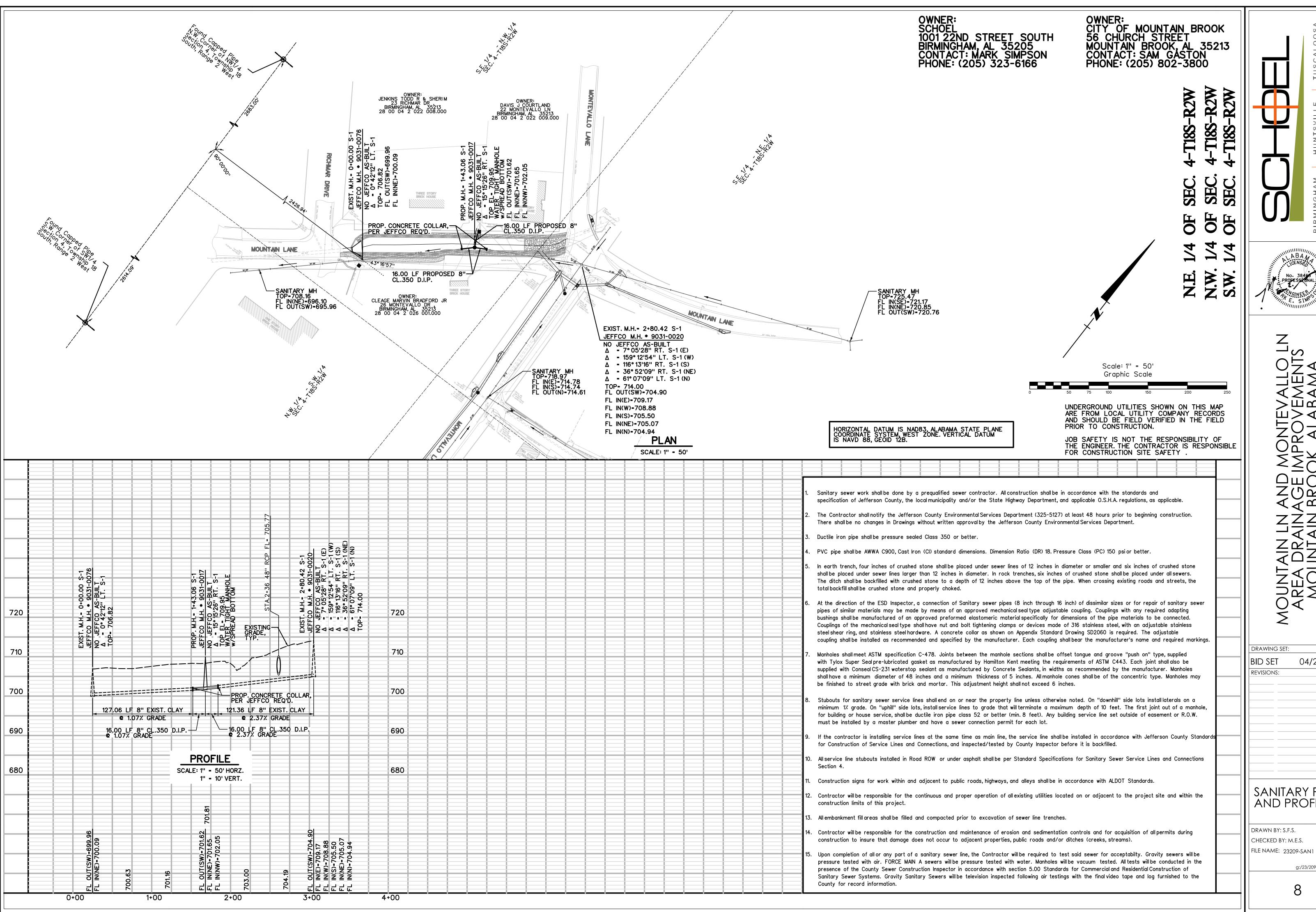
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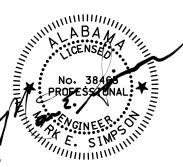
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WALL PROFILES

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MONTEVALLO I IMPROVEMENTS JOK, ALABAMA SP OR OR OR OR

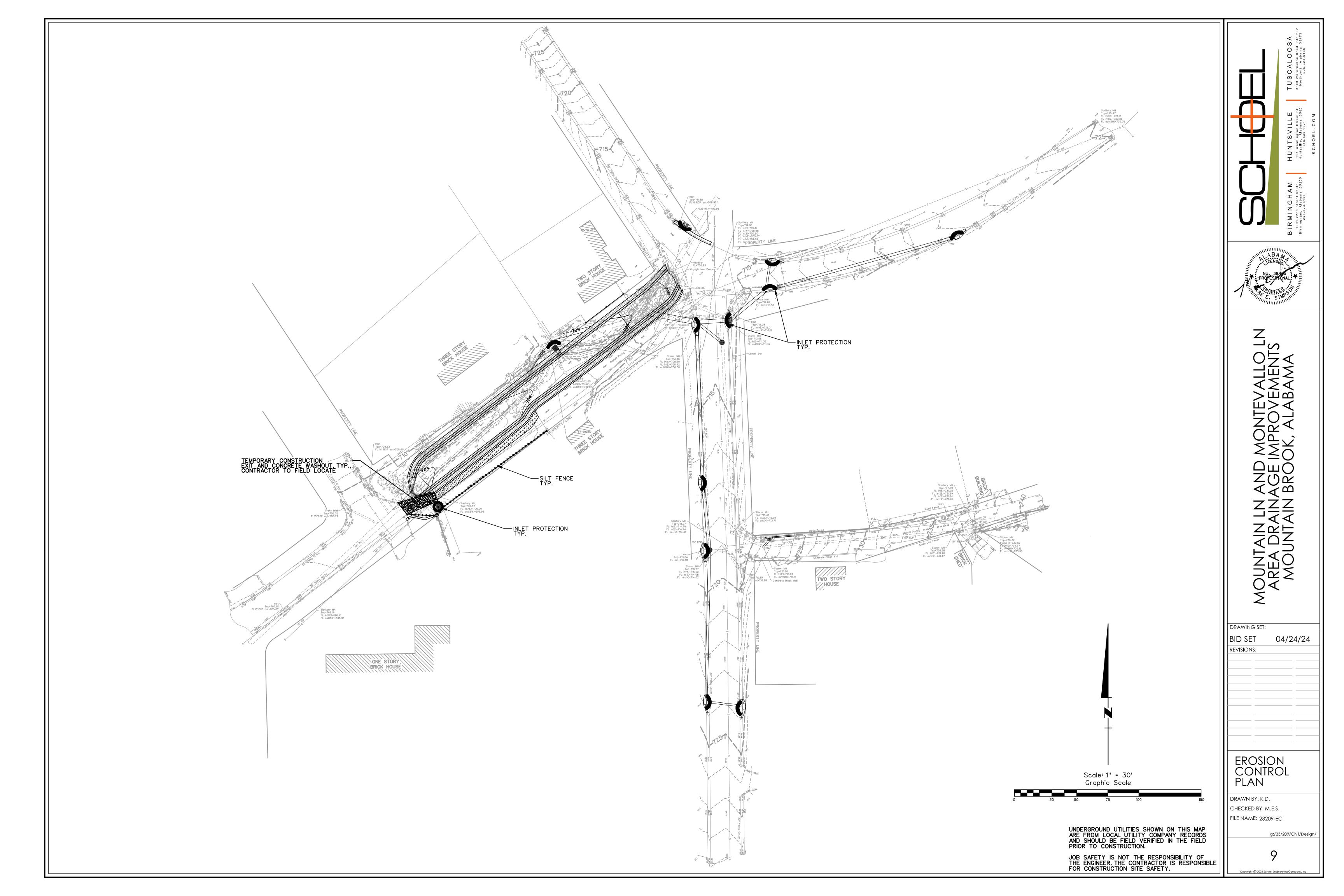
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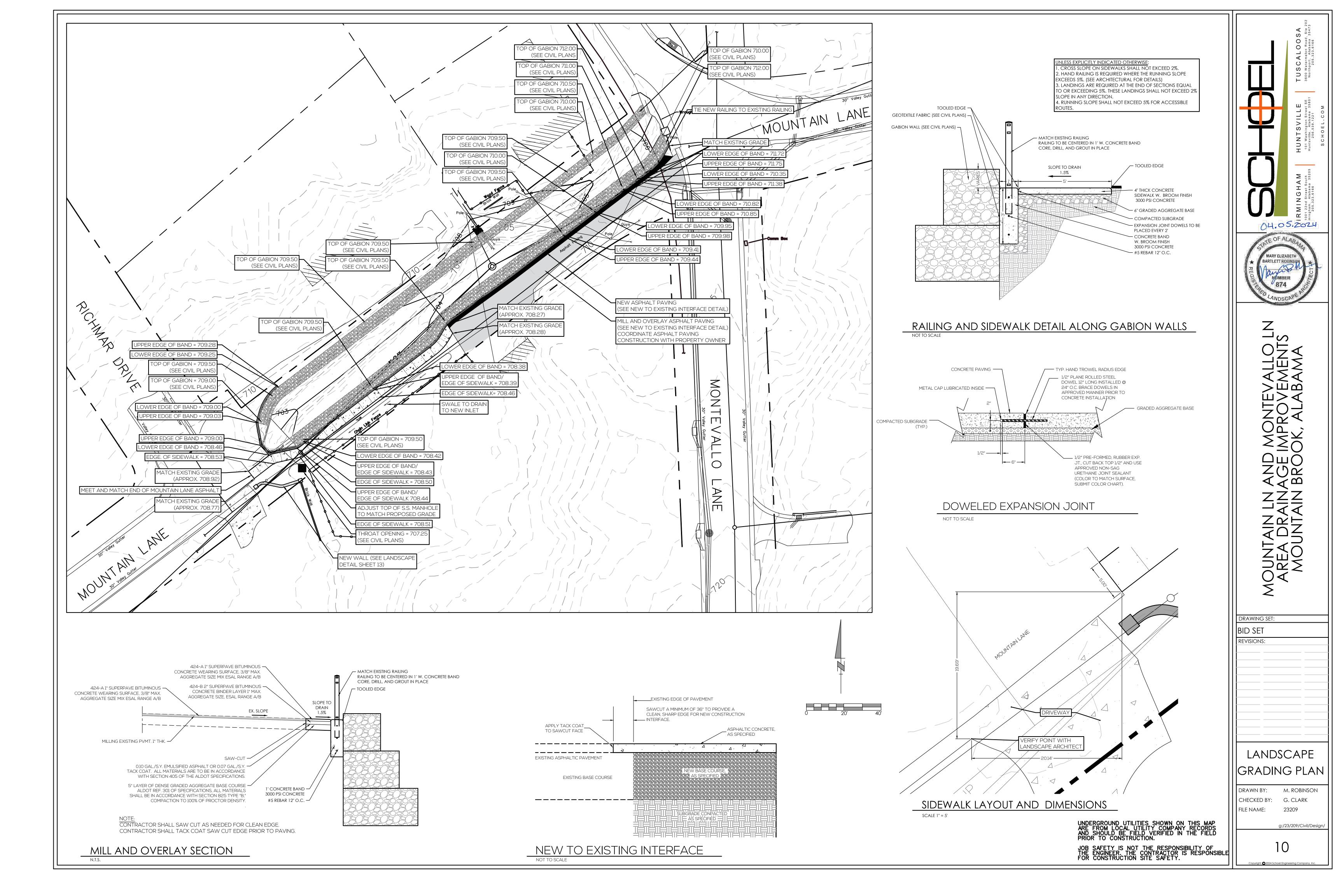
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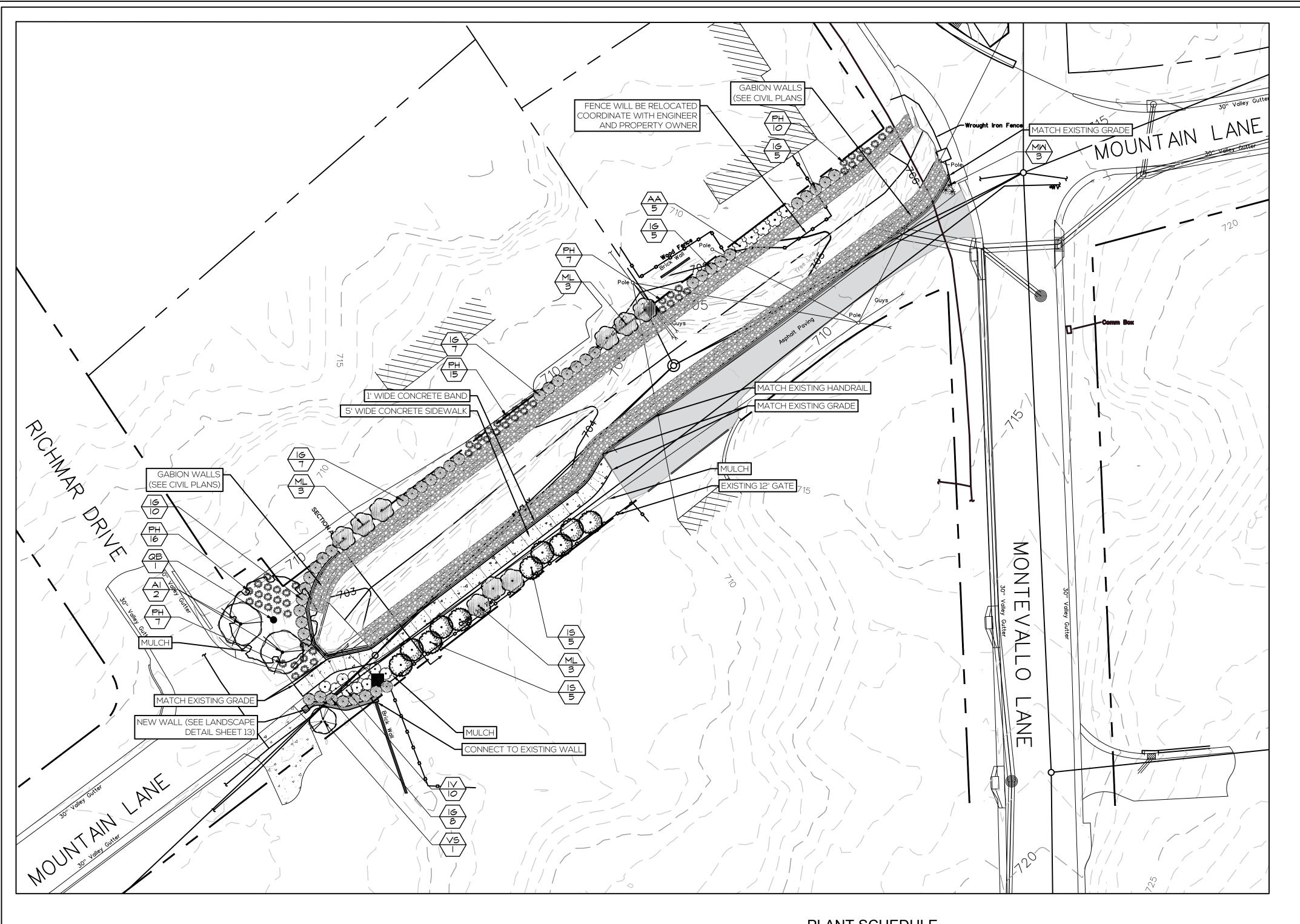
SANITARY PLAN AND PROFILE

DRAWN BY: S.F.S. CHECKED BY: M.E.S.

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LANDSCAPE NOTES:

- CONTRACTOR IS RESPONSIBLE FOR THE LOCATION OF UNDERGROUND UTILITIES ON THE SITE. REPAIR DAMAGED UTILITIES TO OWNER'S SATISFACTION AT NO ADDITIONAL COST.
- VERIFY QUANTITIES ON PLANS BEFORE PRICING WORK AND PROVIDE PLANT MATERIAL IN SIZES AND VARIETIES SHOWN ON THE DRAWINGS AND PLANT LIST.
- 3. ALL PLANT MATERIAL SHALL BE GUARANTEED ONE FULL YEAR, FREE REPLACEMENT ON LABOR & MATERIAL. SEPARATE AGREEMENT WITH INSTALLER SHALL BE PROVIDED, TO INCLUDE CONTACT NAME/PH. NUMBERS
- 4. SOD ALL AREAS ACCORDING TO LANDSCAPE PLAN AND SEED ALL OTHERS.
- 5. LANDSCAPE ARCHITECT MAY OR MAY NOT AT HIS/HER DISCRETION ACCEPT SUBSTITUTIONS.
- 6. PROVIDE FRESHLY DUG TREES AND SHRUBS. DO NOT USE NATURALLY COLLECTED MATERIALS.
- 7. PLANT MATERIAL STORED ON THE SITE MORE THAN 8 HOURS PRIOR TO PLANTING SHALL BE HEELED IN WITH MULCH
- 8. INSTALL ALL PLANT MATERIALS IN ACCORDANCE WITH ALL LOCAL CODES AND ORDINANCES.
- 9. STAKE PLANT LOCATIONS FOR APPROVAL BY LANDSCAPE ARCHITECT BEFORE INSTALLATION. ADJUST STAKE LOCATIONS AS DIRECTED.
- 10. ALL PLANTS SHALL MEET SPECIFICATIONS. ROOTBALLS SHALL MEET OR EXCEED SIZE STANDARDS SET FORTH IN ANSI 260.1, 'AMERICAN STANDARD FOR NURSERY STOCK'. MAIN LEADERS OF ALL TREES SHALL REMAIN INTACT.
- 11. MULCH PLANT PITS AND PLANTING BEDS WITH PINE STRAW OR SHREDDED WOOD CHIPS TO A DEPTH OF 3 INCHES.
- 12. PREPARE ALL TOPSOIL TO BE USED IN ALL PLANTING AREAS IN THE FOLLOWING PROPORTIONS:

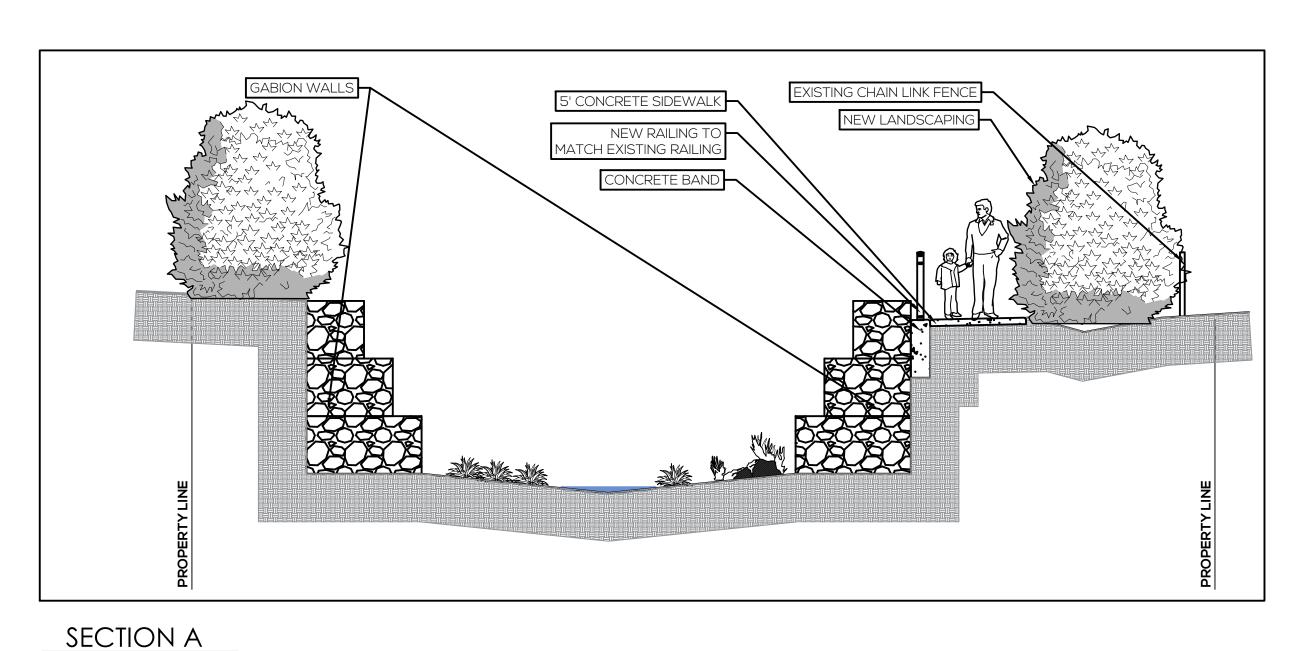
4 PARTS TOP SOIL 2 PARTS DECOMPOSED ORGANIC MATTER 1 PART APPROVED SOIL AMENDMENT 1 PART MYCHORIZAE FUNGI PER MANUFACTURER SPEC'S

- 13. REMOVE FROM SITE ANY PLANT MATERIAL WHICH TURNS BROWN OR DEFOLIATES WITHIN 5 DAYS AFTER PLANTING. REPLACE IMMEDIATELY WITH APPROVED SPECIFIED PLANT MATERIAL.
- 14. WHEN LANDSCAPE WORK IS COMPLETE, LANDSCAPE ARCHITECT WILL, UPON REQUEST MAKE AN INSPECTION TO DETERMINE ACCEPTABILITY.
- 15. MAINTAIN ALL PLANT MATERIAL UNTIL THE JOB IS ACCEPTED IN FULL BY THE LANDSCAPE ARCHITECT UNLESS OTHERWISE SPECIFIED.
- 16. LOCATE PLANT MATERIAL PRIOR TO SUBMITTING BID / OR QUALIFY BID WITH RECOMMENDED PLANT SUBSTITUTIONS. SUBMISSION OF BID SHALL CONSTITUTE CONTRACTORS ACCEPTANCE OF PLANT AVAILABILITY.
- 17. ALL TREES WILL BE MULCHED WITH PINE STRAW OR SHREDDED WOOD CHIPS, AND BE STAKED AS SHOWN ON DRAWINGS. STAKES AND GUY WIRE TO BE REMOVED BY AND REMAIN THE PROPERTY OF THE CONTRACTOR.

NOTE: THE OWNER, LESSEE, OR HIS AGENT SHALL BE RESPONSIBLE FOR PROVIDING, MAINTAINING, AND PROTECTING ALL LANDSCAPING IN A HEALTHY AND GROWING CONDITION, AND FOR KEEPING IT FREE FROM REFUSE AND DEBRIS. ALL UNHEALTHY AND DEAD MATERIALS SHALL BE REPLACED WITHIN ONE YEAR AFTER NOTIFICATION OR DURING THE NEXT APPROPRIATE PLANTING PERIOD, WHICHEVER COMES FIRST.

NOTE: THE SOD SHALL BE PLACED ON THE PREPARED SURFACE WITH THE EDGES IN CLOSE CONTACT, CRACKS BETWEEN BLOCKS OF SOD SHALL BE CLOSED WITH SMALL PIECES OF SOD, AND ACCEPTABLE LOAMY TOP SOIL SHALL BE USED TO FILL JOINTS. THE ENTIRE SODDED AREA SHALL THEN BE TAMPED IN PLACE IN A SATISFACTORY MANNER AND WATERED AS NECESSARY.

NOTE: CONTRACTOR TO REUSE ROCKS/BOULDERS AT ENGINEER'S DIRECTION.

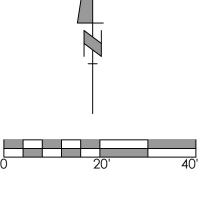


NOT TO SCALE

| PLANT | SCH | EDULE | | | | |
|---|------------|--|-----------------|---------------|---------------|-----|
| SYMBOL | CODE | BOTANICAL / COMMON NAME | CONT | CAL | <u>HEIGHT</u> | QTY |
| TREES | | | | | | |
| | Al | Amelanchier arborea 'Autumn Brilliance' / Autumn Brilliance Serviceberry | B \$ B | 2" Cal. | 8' Min. | 2 |
| • | IS | llex x attenuata 'Savannah' / Savannah Holly | 15 <i>G</i> al. | | 5' Min. | 10 |
| | ML | Magnolia grandiflora 'Little Gem' / Little Gem Dwarf Southern Magnolia | B ₿ | | ව' Min. | 9 |
| \(\frac{1}{2} \) | QB | Quercus bicolor / Swamp White Oak | B \$ B | 2.5" Cal. | 12' Min. | I |
| | V S | Vitex agnus-castus 'Shoal Creek' / Shoal Creek Chaste Tree | B≰B | | 8' Min. | I |
| SYMBOL | CODE | BOTANICAL / COMMON NAME | CONT | <u>HEIGHT</u> | | QTY |
| SHRUBS | | | | | | |
| | AA | Aronia arbutifolia / Red Chokeberry | 3 <i>G</i> al. | 2' Min. | | 5 |
| | 16 | llex glabra 'Shamrock' / Shamrock Inkberry Holly | 3 Gal. | 2' Min. | | 42 |
| | IV | Itea virginica 'Henry's Garnet' / Henry's Garnet Sweetspire | 3 Gal. | 2' Min. | | 10 |
| | MM | Muhlenbergia capillaris 'White Cloud' / White Cloud Muhly Grass | 3 <i>G</i> al. | 2' Min. | | 3 |
| | PH | Panicum virgatum 'Heavy Metal' / Heavy Metal Switch Grass | 3 <i>G</i> al. | 2' Min. | | 55 |



NOTE: ALL UTILITY LOCATIONS HAVE BEEN PROVIDED BY THE RESPECTIVE UTILITY DEPARTMENTS OR COMPANIES. CONTRACTORS ARE RESPONSIBLE FOR ANY DAMAGE TO UTILITIES, CALL UTILITY COMPANY OR CITY DEPARTMENTS FOR GROUND LOCATIONS BEFORE DIGGING.



JOB SAFETY IS NOT THE RESPONSIBILITY OF THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION SITE SAFETY.

04.05.2024

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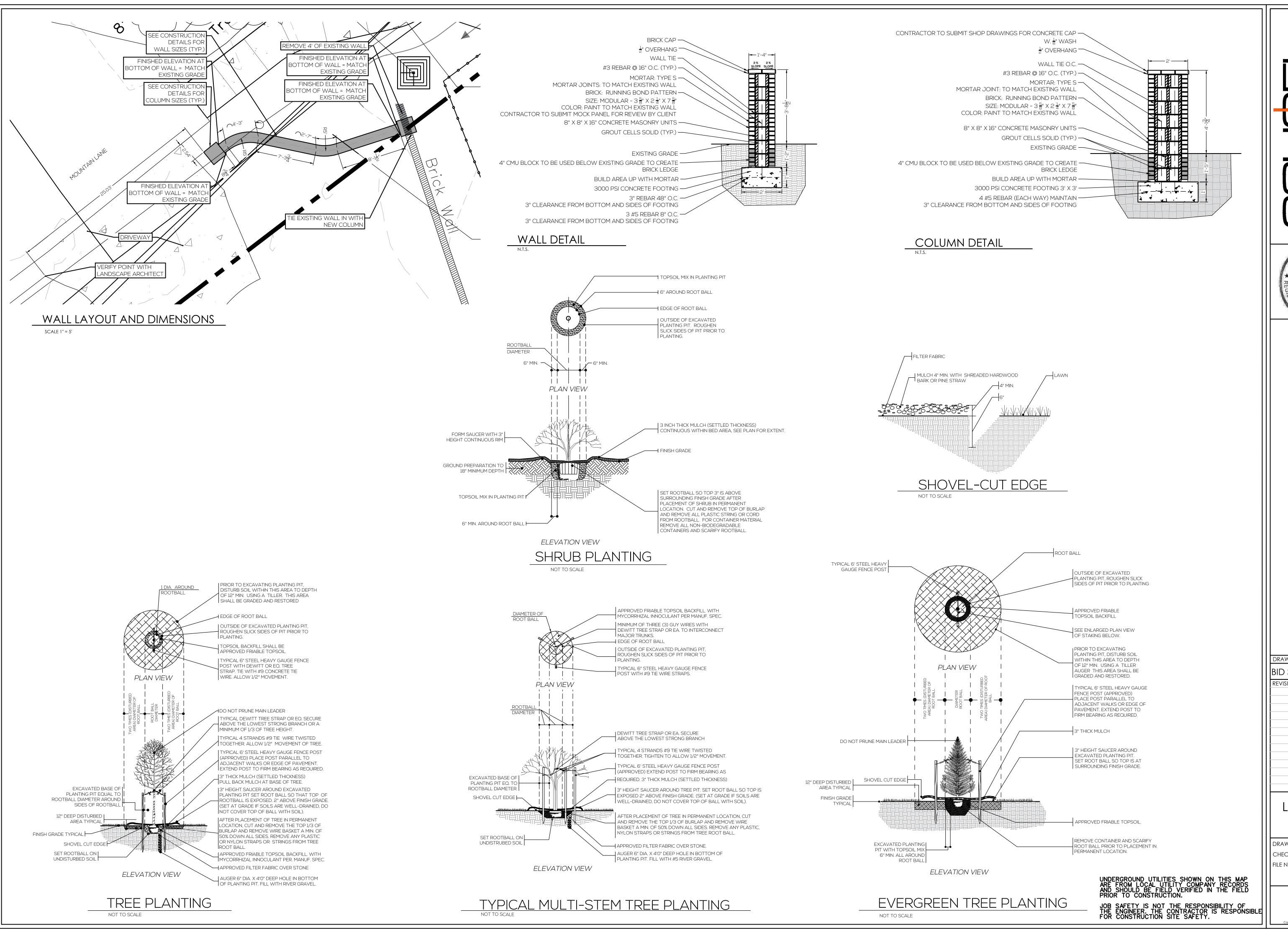
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REVISIONS:

PLAN

DRAWN BY: M. ROBINSON CHECKED BY: G. CLARK FILE NAME: 23209

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1022nd Street South Huntsville, Alabama 35801
205.323.6166
SCHOEL.COM

MARY ELIZABETH
BARTLETT ROBINSON
NUMBER
874

ANDSCAPE

MOUNTAIN LN AND MONTEVALLO L AREA DRAINAGE IMPROVEMENTS MOI INTAIN RROOK AI ARAMA

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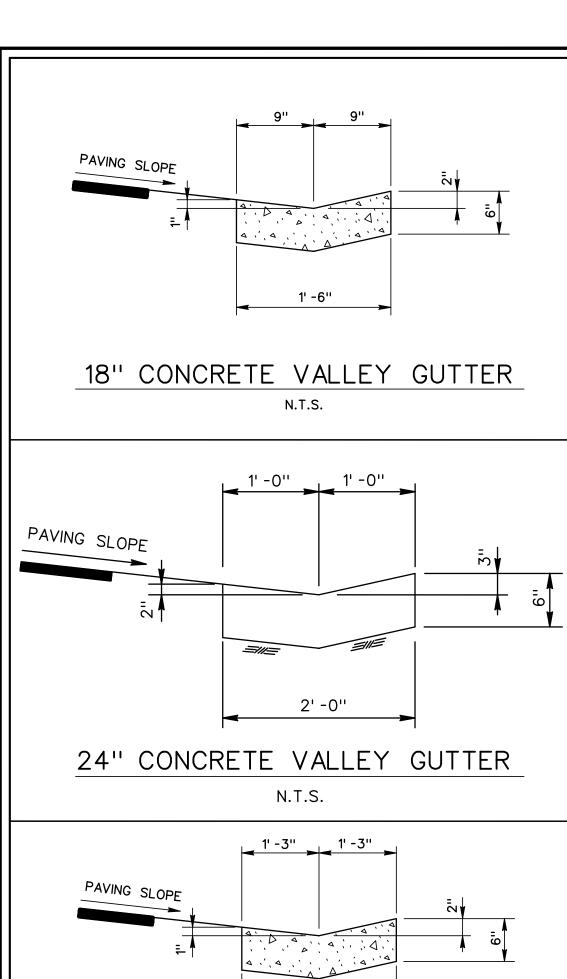
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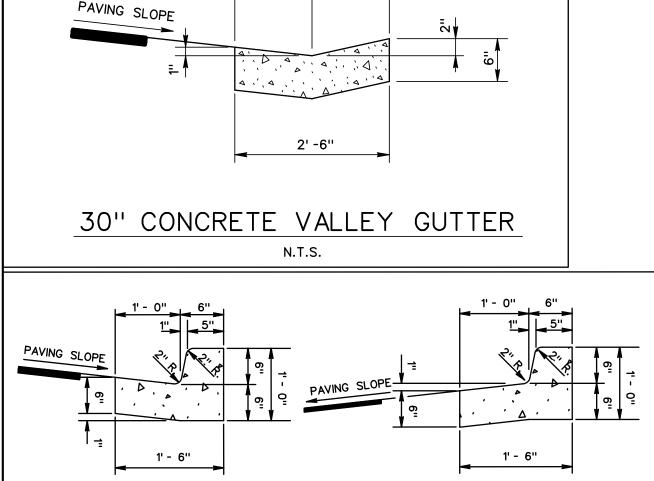
REVISIONS:

LANDSCAPE DETAILS

DRAWN BY: M. ROBINSON
CHECKED BY: G. CLARK
FILE NAME: 23209
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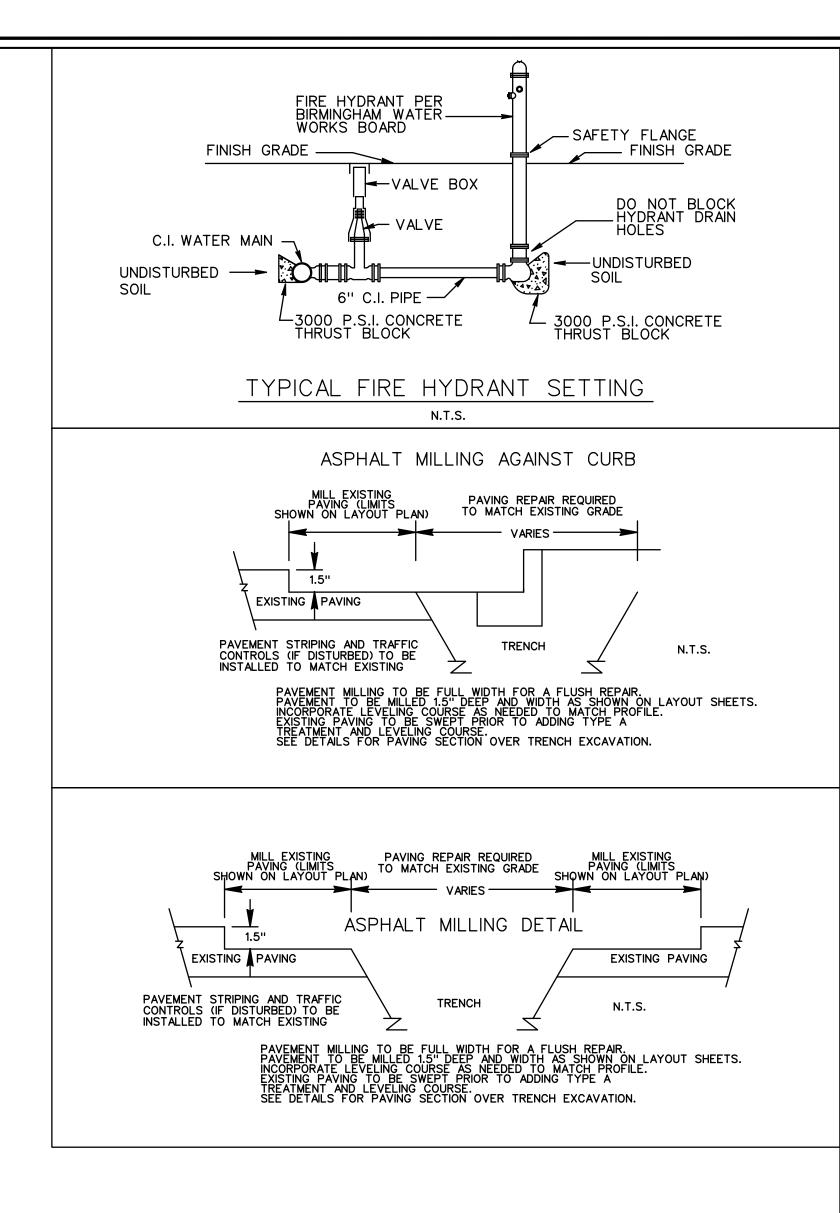
18" COMBINED CONCRETE CURB AND GUTTER

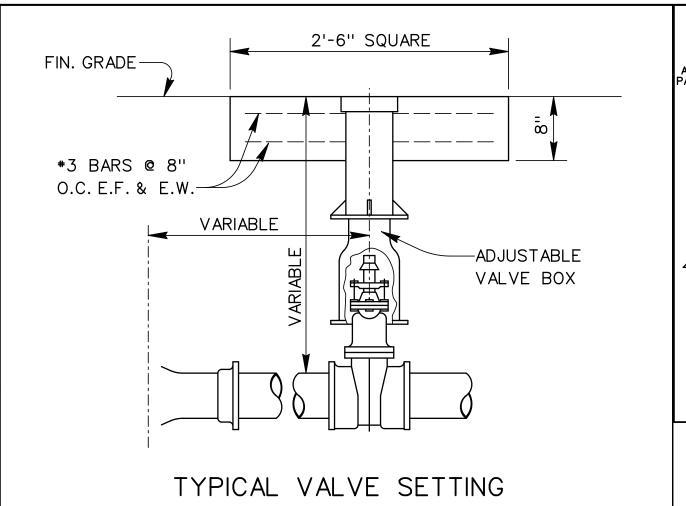
NOTES: 1. SLOPE GUTTER AS SHOWN ACCORDING TO PAVING SLOPE.

3. 36" SAWED JOINTS REQUIRED ON 20' INTERVALS.

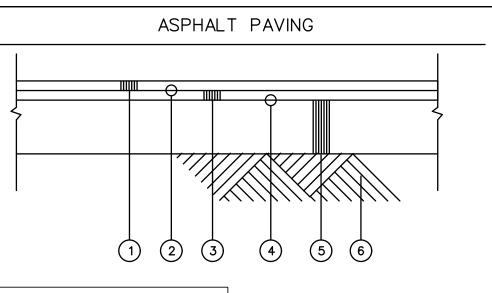
2. 3/4" EXPANSION JOINT REQUIRED AT P.C.'S AND P.T.'S OF ALL CURVES, AT STRUCTURES (CURB INLETS, WHEELCHAIR

RAMPS, ETC.) AND EVERY 100' MAX. WITH FILLER MATERIAL.





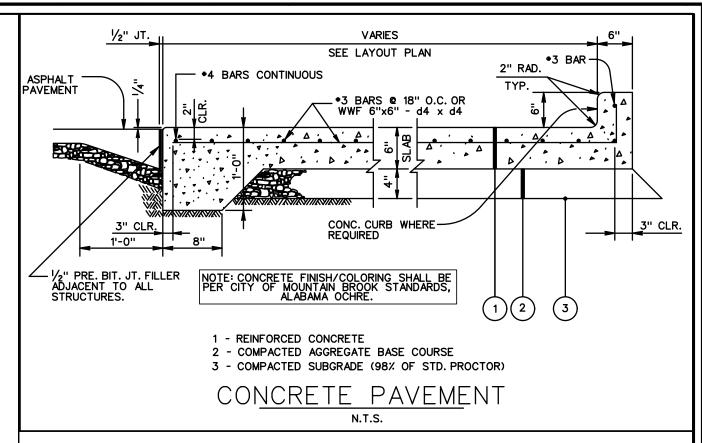
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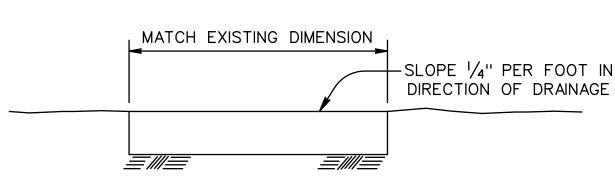


ASPHALT PAVING SHALL BE PER CITY OF MOUNTAIN BROOK STANDARDS AND SPECIFICATIONS.

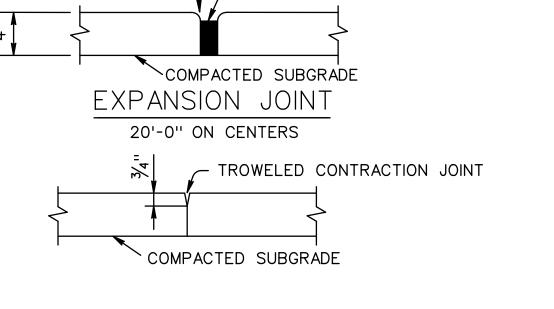
3" PAVING ON 6" BASE

- REQUIRED 1.5" (125 lbs/S.Y.) BITUMINOUS CONCRETE; WEARING LAYER (ASPHALT) COMPACTED
- REQUIRED TACK COAT 0.05 GAL./S.Y. (MAX)
- REQUIRED 2" BITUMINOUS CONCRETE, BINDER LAYER (ASPHALT) (FULL WIDTH)
- REQUIRED BITUMINOUS TREATMENT TYPE A (FOR PRIME) (ASPHALT) (FULL WIDTH) 0.23 GAL./S.Y. (APPROX.)
- REQUIRED 6" CRUSHED AGGREGATE BASE COURSE IN TWO LAYERS, TYPE B PLANT MIXED (FULL WIDTH) COMPACTED AND EXTENDED UNDER C&G
- SUB-GRADE





TYPICAL WALKWAY SECTION



/ 1/4" TO 1/2" PREMOLDED FILLER

CONTRACTION JOINT 4'-0" ON CENTERS

CONCRETE SIDEWALK DETAIL

> \square \square AND AGE BRO

O 5 5

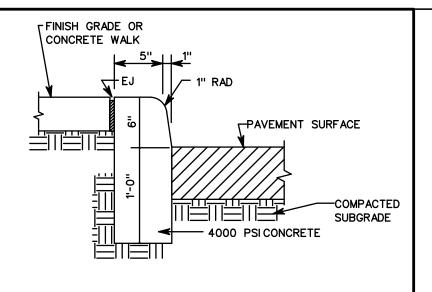
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DRAWING SET: 04/24/24 **REVISIONS: DETAILS**

DRAWN BY: K.D. CHECKED BY: M.E.S. FILE NAME: 23209-DET1

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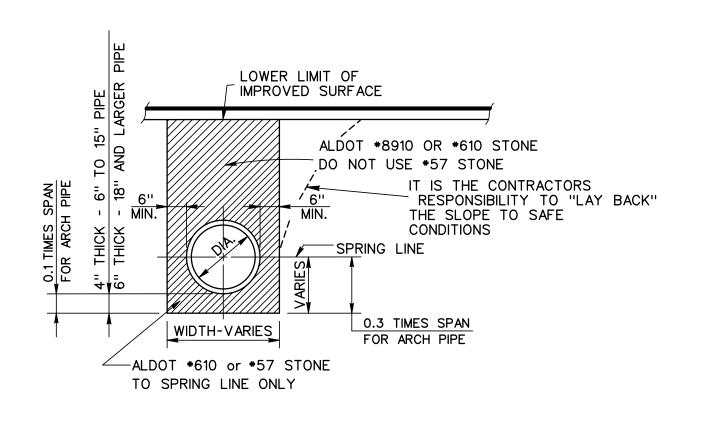
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6" STANDUP CONCRETE CURB

N.T.S.

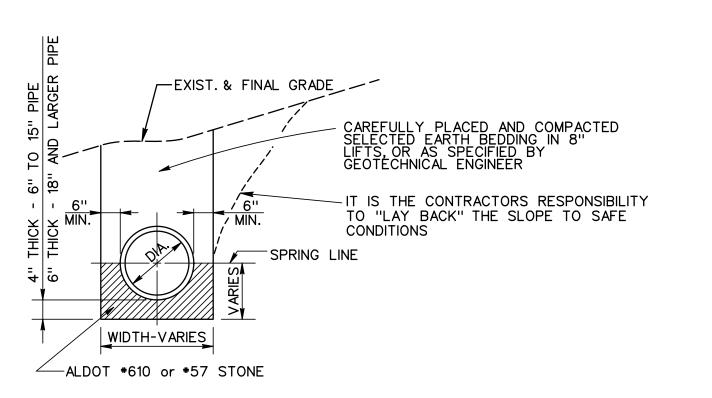
NOTES: 1. 3/4" EXPANSION JOINT REQUIRED AT P.C.'S AND P.T.'S OF ALL CURVES, AT STRUCTURES (CURB INLETS, WHEELCHAIR RAMPS, ETC.) AND EVERY 100' MAX. WITH FILLER MATERIAL. 2. 36" SAWED JOINTS REQUIRED ON 20' INTERVALS.



CONCRETE STORM PIPE BEDDING AND BACKFILL UNDER EXISTING IMPROVED SURFACES

NOT TO SCALE

THIS PIPE BEDDING AND BACKFILL DETAIL TO BE USED FOR CONCRETE STORM DRAINAGE INSTALLED UNDER EXISTING IMPROVED SURFACES INCLUDING BUT NOT LIMITED TO ROADWAYS, PARKING LOTS, SIDEWALKS, ETC. BEDDING AND BACKFILL FOR SANITARY SEWER MAINS AND LATERALS, AND WATER DISTRIBUTION SYSTEMS SHALL BE PER THE GOVERNING ENTITY'S REQUIREMENTS.

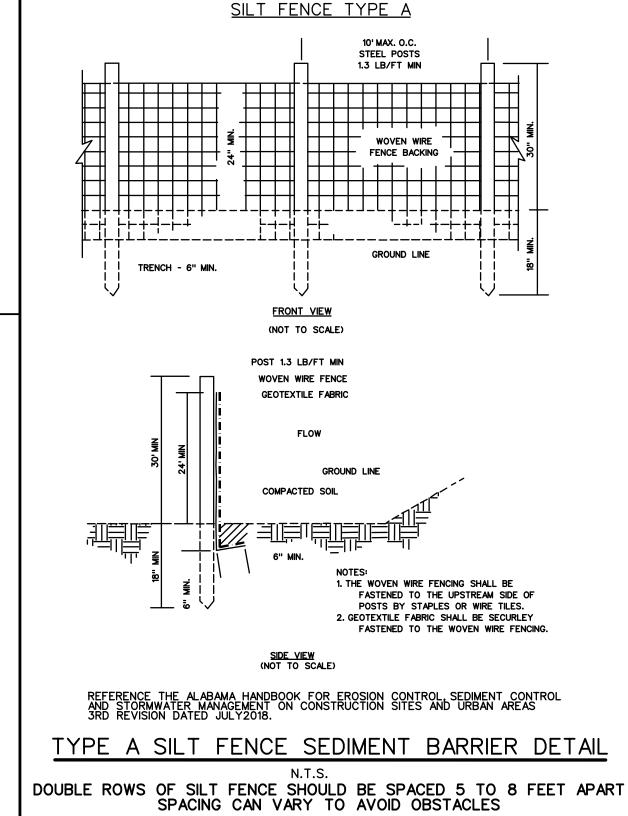


CONCRETE STORM PIPE BEDDING AND BACKFILL UNDER EXISTING UNIMPROVED SURFACES WHERE EXISTING AND FINAL GRADE ARE THE SAME NOT TO SCALE

THIS PIPE BEDDING AND BACKFILL DETAIL TO BE USED FOR CONCRETE STORM DRAINAGE INSTALLED UNDER EXISTING UNIMPROVED SURFACES. BEDDING AND BACKFILL FOR SANITARY SEWER MAINS AND LATERALS, AND WATER DISTRIBUTION SYSTEMS SHALL BE PER THE GOVERNING ENTITY'S REQUIREMENTS.

SECTION VIEW

PLAN VIEW



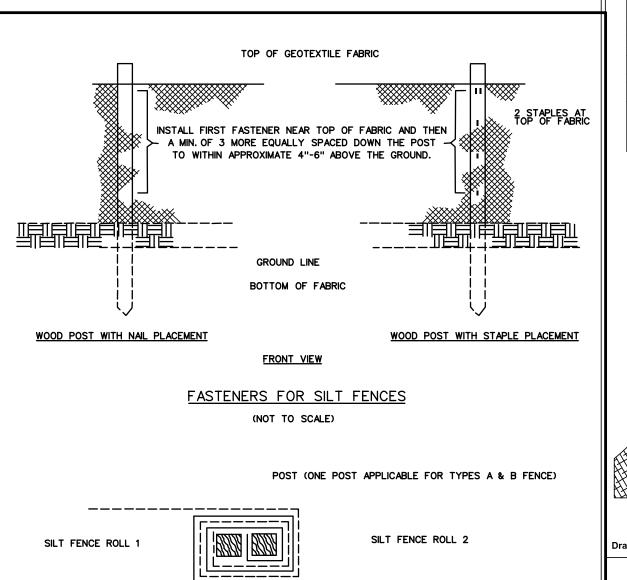
STONE SHALL BE ALDOT COARSE AGGREGATE GRADATION NO.1 STONE WHICH IS 2" TO 3" AVERAGE DIAMETER STONE MATERIAL.

A STABILIZED PAD OF CRUSHED STONE SHALL BE LOCATED WHERE TRAFFIC WILL BE LEAVING OR ENTERING A CONSTRUCTION SITE TO OR FROM A PUBLIC STREET.

THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC STREETS OR EXISTING PAVEMENT. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

FILTER FABRIC SHOULD BE CLASS IV NON-WOVEN GEOTEXTILE (OPTIONAL FOR ACCESS DRIVE)

ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC STREETS MUST BE REMOVED IMMEDIATELY.



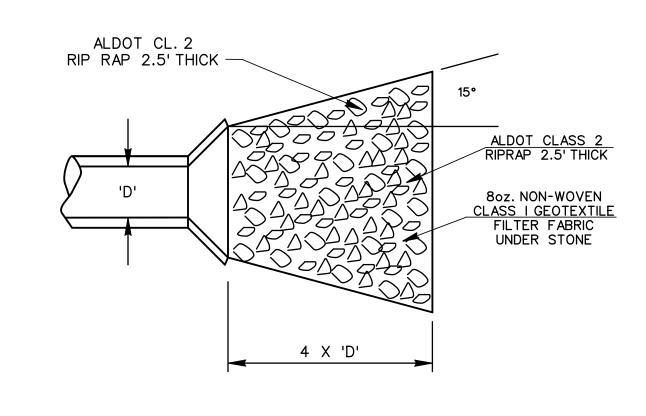
ROLL JOINT FOR JOINING TWO ADJACENT SILT FENCE SECTIONS

ROLL THE ENDS OF EACH SECTION OF FENCE ONE OR MORE TIMES BEFORE INSTALLING THE POSTS.

REFERENCE THE ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL AND STORMWATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS 3RD REVISION DATED JULY 2018.

(NOT TO SCALE)

SILT FENCE INSTALLATION DETAILS N.T.S.





EROSION CONTROL NOTES

CONSTRUCTION EXIT & ACCESS DRIVE

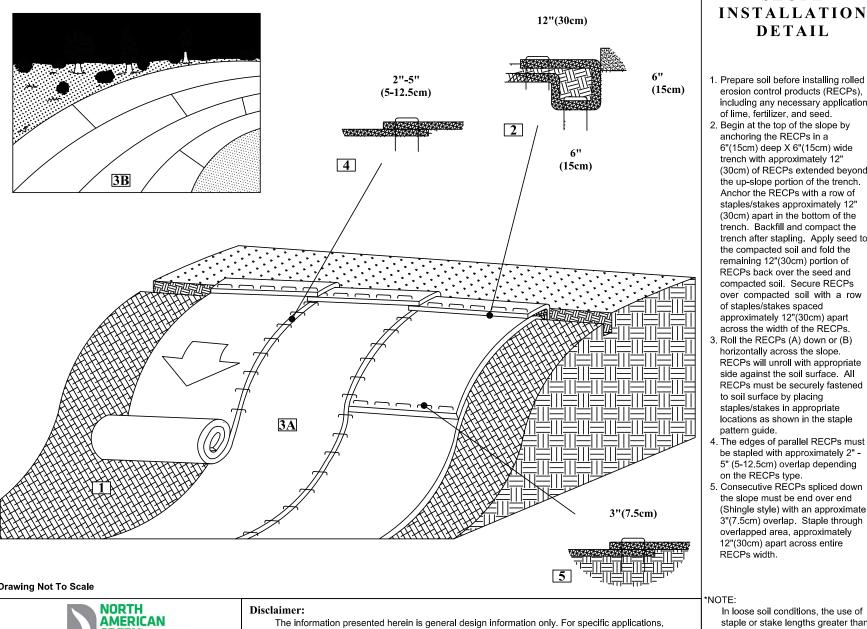
(TYPICAL)

N. T. S.

- 1. TEMPORARY EROSION CONTROL DEVICES SHALL BE OBSERVED BY THE OWNER (OR OWNER'S REPRESENTATIVE) ON A PERIODIC BASIS, BUT NOT LESS THAN ONCE PER MONTH, AND THE GRADING CONTRACTOR SHALL MAKE ANY NECESSARY ADJUSTMENTS/REPAIRS AS REQUESTED BY THE OWNER.
- THE MEASURES SHOWN ON THE PLANS ARE INTENDED FOR CONTROL DURING SITE CLEARING AND GRADING. ADDITIONAL MEASURES WILL BE REQUIRED AS SITE CONDITIONS CHANGE DURING CONSTRUCTION.
- 3. COORDINATE SEDIMENTATION AND EROSION CONTROL MEASURES WITH THE CLEARING AND GRUBBING OPERATION. THESE ACTIVITIES MUST OCCUR IN THE PROPER SEQUENCE IN RELATION TO ONE ANOTHER.
- 4. THE CONTRACTOR WILL INSTALL AND MAINTAIN THE EROSION AND SEDIMENTATION CONTROL MEASURES (BOTH TEMPORARY AND PERMANENT) AS A CONTINUING PROGRAM UNTIL THE SITE WORK IS COMPLETE AND THE SITE IS STABILIZED. THIS INCLUDES, BUT IS NOT LIMITED TO, REPAIRS OF DAMAGE FROM STORMS, REGULAR MAINTENANCE, AND REMOVAL / DISPOSAL OF ACCUMULATED SILT. SILT FENCES AND OTHER EROSION CONTROL DEVICES SHOULD BE INSPECTED AFTER EVERY SIGNIFICANT RAIN EVENT.
- 5. ALL EROSION CONTROL MEASURES COMPROMISED BY SEDIMENT BUILDUP INCLUDING RIP RAP, SILT FENCE, HAY DAMS, CHECKS, OR OTHER DEVICES WILL BE REPAIRED OR REPLACED AS NECESSARY
- 6. ANY PIPE, CREEK, OR OTHER STORM DRAINAGE FEATURE SHOWING EVIDENCE OF SEDIMENT ACCUMULATION SHALL BE CLEANED OUT. THE SEDIMENT REMOVED SHALL BE DISPOSED OF IN A LOCATION APPROVED BY THE OWNER OR HIS REPRESENTATIVE.
- 7. THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND PROPER DISPOSAL OF SILT/SEDIMENT (IF NOT REUSABLE ON-SITE) AND SHALL REMOVE ANY SILT/SEDIMENT BEYOND THE PROPERTY RESULTING FROM CONSTRUCTION OPERATIONS.
- 8. DO NOT DEPOSIT WASTE, LOOSE SOIL OR OTHER MATERIALS IN LIVE STREAMS, SWALES OR DRAINAGE WAYS, EXCEPT AS APPROPRIATE FOR EROSION CONTROL (E.G. LOG AND BRUSH CHECKS).

- 9. AFTER THE EROSION ACTIVITY HAS STABILIZED, THE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE TEMPORARY EROSION CONTROL DEVICES AT THE DIRECTION OF THE OWNER AND CLEANING UP AND
- DRESSING THE AREA TO THE SATISFACTION OF THE OWNER. 10. SILT FENCES ARE TEMPORARY EROSION CONTROL DEVICES THAT SHALL BE ERECTED OPPOSITE ERODABLE AREAS SUCH AS NEWLY GRADED FILL SLOPES AND ADJACENT TO STREAMS AND CHANNELS.
- 11. SILT FENCE BARRIER SHALL BE FABRIC 36 INCHES IN WIDTH (MIN.) AND BE ENVIROFENCE 100X AS MANUFACTURED BY MIRAFI, INC. OR APPROVED EQUAL. SILT FENCE SHALL BE SUPPORTED BY WIRE FENCE, HAVING A MINIMUM OF 6 LINE WIRES AND A MAXIMUM 12" STAY SPACING. WIRE FENCE SHALL BE SUPPORTED BY STEEL POSTS OR WOOD POSTS (4" DIA. OR SQ.) WITH *9 WIRE STAPLES (11/2" LONG MIN.). THE BOTTOM EDGE OF THE FENCE WILL BE PLACED IN AN EXCAVATED
- TRENCH 6" DEEP AND COVERED AS SHOWN IN THE SILT FENCE DETAIL. 12. IN FLAT AREAS, SILT FENCES SHOULD BE CONSTRUCTED IN THE SHAPE OF A HORSESHOE, WHENEVER POSSIBLE, SO AS TO AID IN PONDING AND TO FACILITATE SEDIMENTATION
- 13. SILT FENCING OR OTHER APPROPRIATE EROSION CONTROL MEASURES AS DIRECTED ON THE PLANS SHALL BE PLACED AT THE DOWNSTREAM EDGE OF ALL DISTURBED AREAS.
- 14. HAY BALES ARE TEMPORARY EROSION CONTROL DEVICES THAT SHALL BE USED IN CONJUNCTION WITH OTHER EROSION CONTROL DEVICES. BALES MAY BE EITHER HAY OR STRAW CONTAINING FIVE (5) CUBIC FEET OF MATERIAL WEIGHING NOT LESS THAN 35 POUNDS AND SECURED WITH TWO STAKES AS SHOWN IN THE HAY BALE DETAIL.
- 15. ALL STORM SEWER INLETS IN DISTURBED AREAS OR IN OTHER AREAS SUBJECT TO POTENTIAL INFLOW OF SEDIMENT SHALL BE PROTECTED AT A MINIMUM WITH HAY BALES AND SILT FENCE.
- 16. ADDITIONAL SILT FENCES, HAY BALES OR CHECK DAMS MAY BE REQUIRED TO CONTROL SILTING OR EROSION AS CONSTRUCTION PROGRESSES. THIS NEED WILL BE ADDRESSED DURING THE PERIODIC INSPECTIONS CALLED FOR IN GENERAL NOTE 1.
- 17. ALL DISTURBED AREAS THAT WILL REMAIN INACTIVE FOR MORE THAN 14 DAYS MUST BE SEEDED AND MULCHED.

- 18. AS NECESSARY, ON-SITE PROTECTION IN ADDITION TO THE ABOVE MUST BE PROVIDED THAT WILL PREVENT SILT FROM LEAVING THE PROJECT CONFINES DUE TO EXTREME WEATHER CONDITIONS OR ACCIDENTS.
- 19. ANY DISTURBANCE OF SOIL AND VEGETATION OUTSIDE THE LIMITS OF THE CLEARING LINE WILL NOT BE PERMITTED UNDER ANY CONDITION.
- 20. PREVENT RUN-ON AND RUN-OFF FROM SOIL PILES BY SURROUNDING PILE WITH HAY BALES AND/OR SILT FENCE.
- 21. PREVENT AND CONTROL SOIL EROSION AND GULLYING WITHIN THE PROPERTY COVERED BY CONTRACT AND THE ADJACENT PROPERTIES AS A RESULT OF CONSTRUCTION.
- 22. CONSTRUCT ROADSIDE DITCHES AS REQUIRED DURING ROAD CONSTRUCTION TO ALLOW STORM RUNOFF TO DRAIN.
- 23. ALL CONSTRUCTION STREAM CROSSINGS SHALL HAVE A 24" DIAMETER PIPE (OR LARGER, AS SUGGESTED BY THE ENGINEER) INSTALLED TO CONVEY RUNOFF. THE AREA WHERE THE ROAD CROSSES THE STREAM SHALL BE RIP-RAPPED AS REQUIRED TO PREVENT SEDIMENT WASH-OFF FROM THE ROAD.
- 24. AN ACCESS ROUTE SUFFICIENT TO ALLOW THE USE OF APPROPRIATE MAINTENANCE EQUIPMENT SHALL BE EXTENDED TO EACH STRUCTURAL EROSION CONTROL DEVICE.
- 25. THE CONTRACTOR IS RESPONSIBLE FOR PROPER COLLECTION, STORAGE, AND DISPOSAL OF SOLID AND SANITARY WASTES. DISPOSAL OF THESE WASTES SHALL BE OFF-SITE IN AN APPROPRIATELY PERMITTED FACILITY.
- 26. THE CONTRACTOR IS RESPONSIBLE FOR THE PROPER ON-SITE HANDLING USE, STORAGE, AND DISPOSAL OF PAINTS, SOLVENTS, CHEMICALS, PESTICIDES, HERBICIDES, FERTILIZERS, OILS, GREASE, FUEL, AND OTHER HAZARDOUS MATERIALS USED DURING THIS PROJECT. APPROPRIATE SPILL PREVENTION SHOULD BE PROVIDED FOR ANY CHEMICAL OR HAZARDOUS MATERIAL TO REDUCE EXPOSURE AND CONTAMINATION OF SOILS, STREAMS, CHANNELS, AND STORM WATER RUNOFF.



SLOPE INSTALLATION DETAIL

6"(15cm) may be necessary to

properly secure the RECP's.

Drawn on: 5-4-17

Prepare soil before installing rolled erosion control products (RECPs), including any necessary applicatio of lime, fertilizer, and seed. 2. Begin at the top of the slope by anchoring the RECPs in a 6"(15cm) deep X 6"(15cm) wide trench with approximately 12" (30cm) of RECPs extended beyon the up-slope portion of the trench Anchor the RECPs with a row of staples/stakes approximately 12 (30cm) apart in the bottom of the trench. Backfill and compact the trench after stapling. Apply seed to the compacted soil and fold the remaining 12"(30cm) portion of RECPs back over the seed and compacted soil. Secure RECPs over compacted soil with a row of staples/stakes spaced approximately 12"(30cm) apart across the width of the RECPs.

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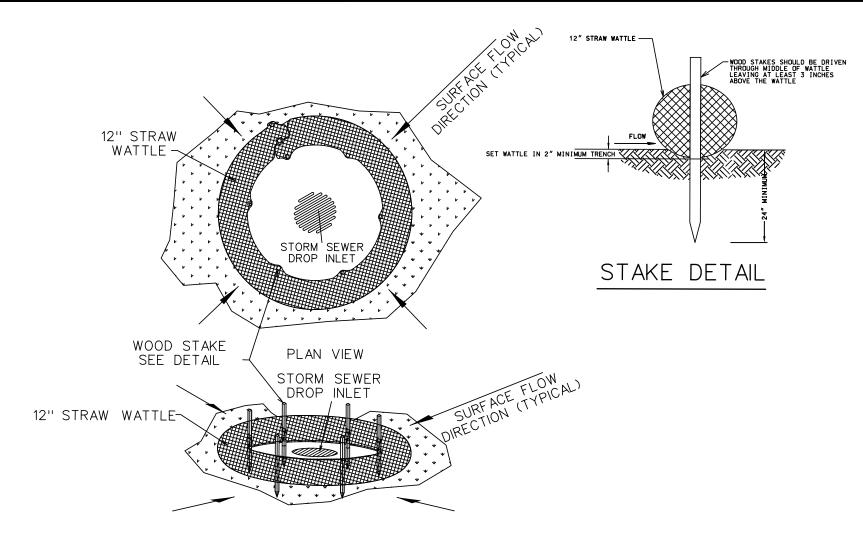
NOTE: INLET PROTECTION PHASES

5401 St. Wendel - Cynthiana Rd.

Poseyville, IN 47633

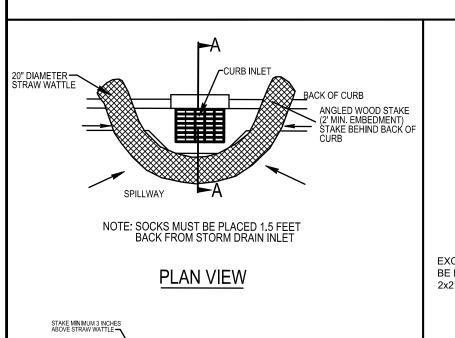
1. USE STRAW WATTLE INLET PROTECTION DETAIL FOR INITIAL INLET STRUCTURE INSTALLATION 2. USE STRAW WATTLE CURB INLET PROTECTION DETAIL FOR INITIAL CURB & GUTTER INSTALLATION 3. USE FILTREXX INLET PROTECTION DETAIL AFTER PAVING SURFACE IS APPLIED

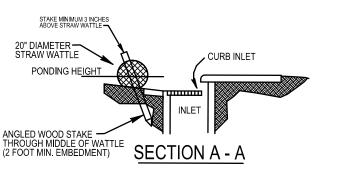
consult an independent professional for further design guidance.



STRAW WATTLE INLET PROTECTION

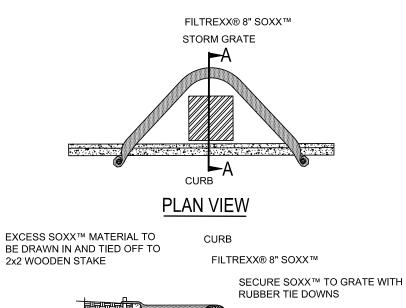
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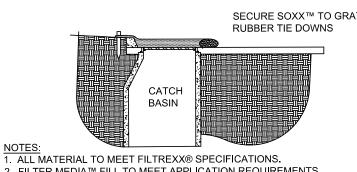




NOTE: STRAW WATTLES TO BE INSTALLED PRIOR TO PAVING OF ROAD SURFACES

CURB INLET PROTECTION SEDIMENT BARRIER (STRAW WATTLES) NOT TO SCALE





2. FILTER MEDIA™ FILL TO MEET APPLICATION REQUIREMENTS. 3. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER. FILTREXX INLET PROTECTION TO BE INSTALLED AFTER PAVING OF ROAD SURFACES SECTION A - A

NOT TO SCALE

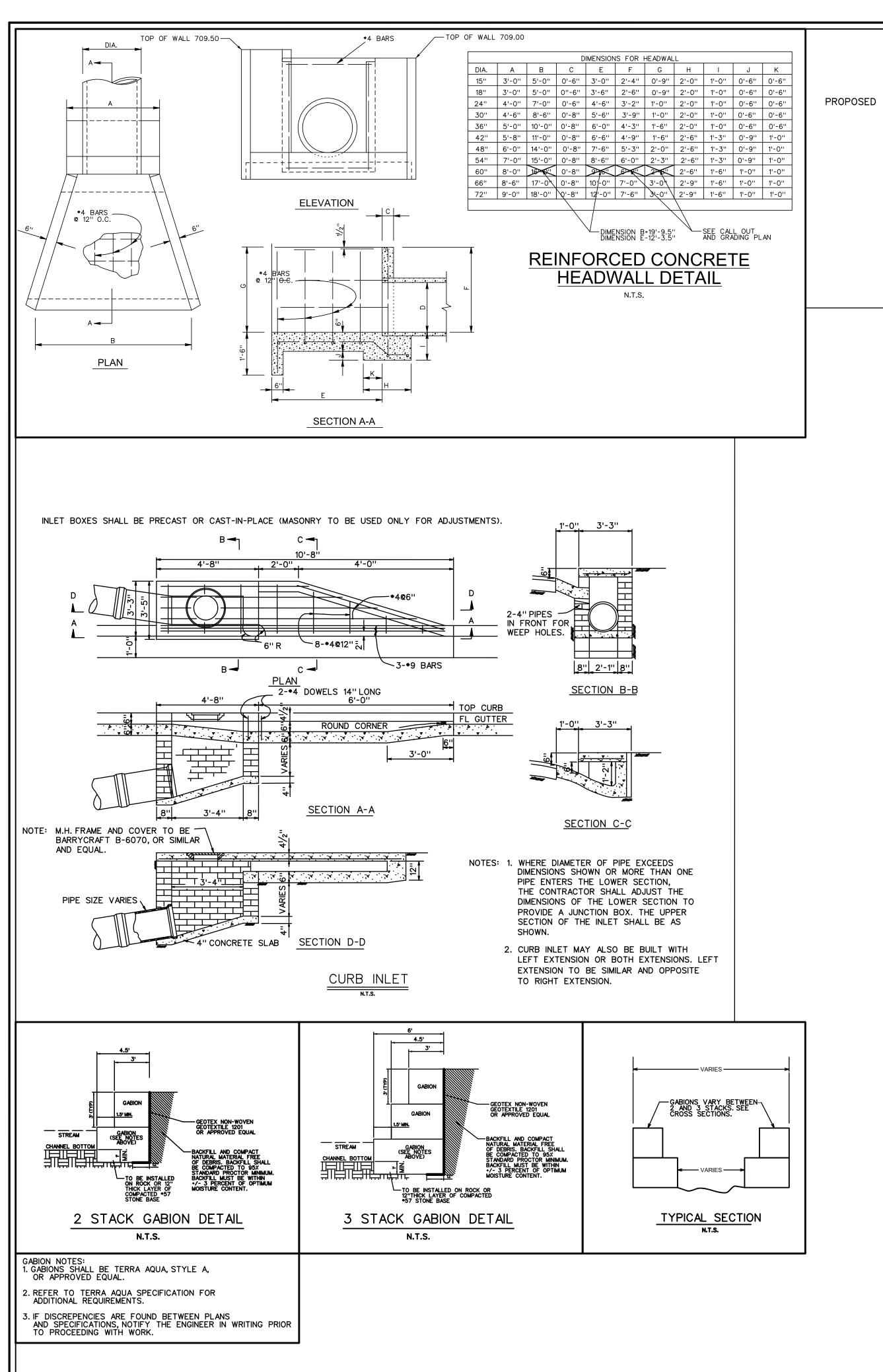
CURB INLET PROTECTION FOR PAVED SURFACES FILTREXX® INLET PROTECTION

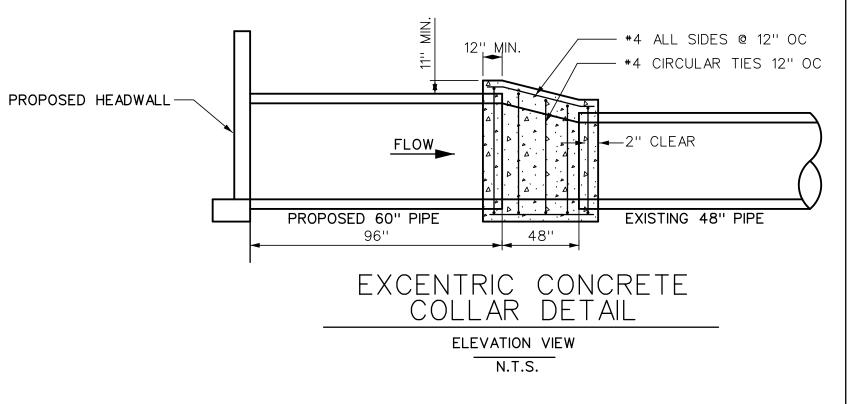
04/24/24 REVISIONS: **DETAILS** DRAWN BY: K.D.

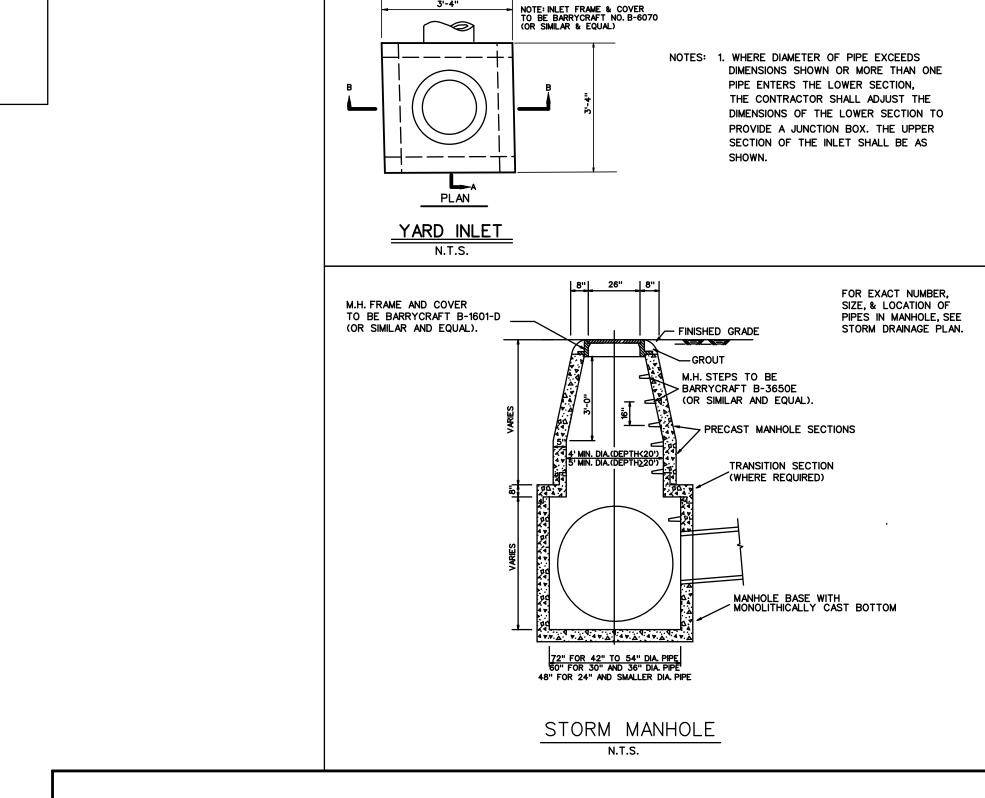
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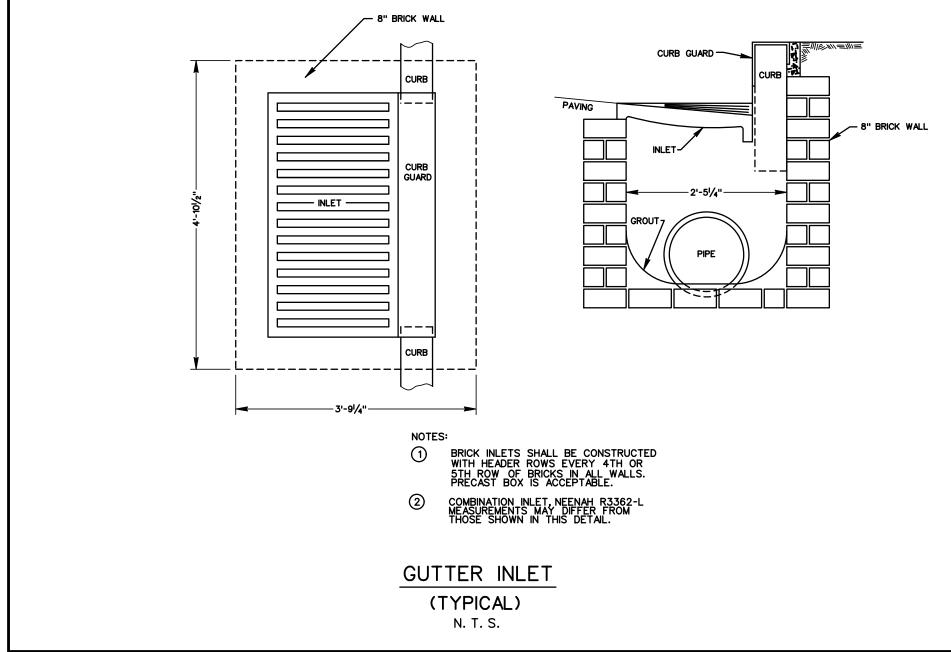


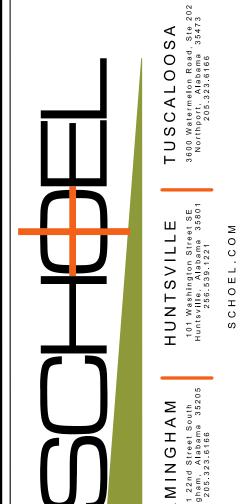




CONCRETE

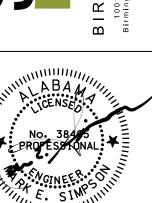
SECTION B-B





CONCRETE

SECTION A-A



MOUNTAIN LN AND MONTEVALLO L AREA DRAINAGE IMPROVEMENTS MOUNTAIN BROOK, ALABAMA

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DETAILS

DRAWN BY: K.D.
CHECKED BY: M.E.S.
FILE NAME: 23209-DET3

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