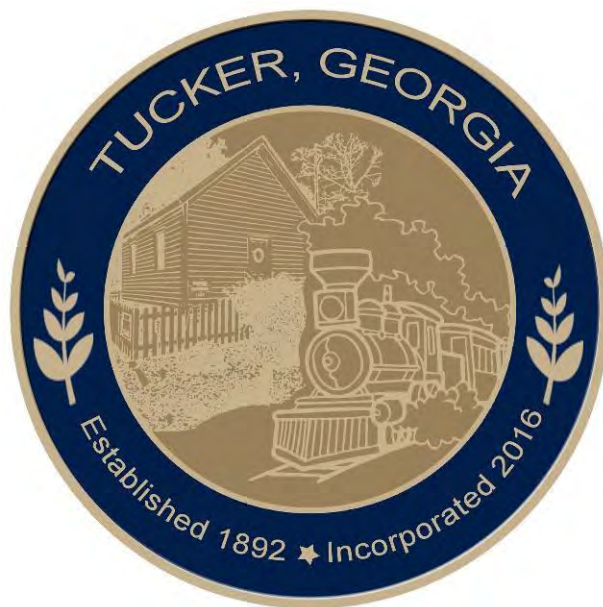


City of Tucker

Invitation to Bid
ITB # 2024-013

HUGH HOWELL ROAD SIDEWALK
CONSTRUCTION PROJECT



BID MANUAL

City of Tucker
1975 Lakeside Parkway, Suite 350
Tucker, Georgia 30084

**City of Tucker Invitation to Bid
ITB #2024-013
HUGH HOWELL ROAD SIDEWALK CONSTRUCTION PROJECT**

INVITATION: The City of Tucker, Georgia requests that interested parties submit bids for the Hugh Howell Road Sidewalk Construction Project. Bids will be accepted until the date and time listed below and will be awarded to the responsive and responsible bidder whose bid, conforming with all the material terms and conditions of the ITB, is the lowest in price. Addenda and updates to this bid manual will be posted on the City of Tucker website <http://tuckerga.gov/bids> or may be requested by email procurement@tuckerga.gov.

| BID ACTIVITY SCHEDULE | |
|---|---|
| Invitation to Bid Issued | May 7, 2024 |
| Pre-Bid Conference | N/A |
| Deadline for Questions | May 21, 2024, at 4:00 p.m. (EST) |
| Responses to Questions Posted (Addenda) | May 23, 2024 |
| Bid Deadline | June 6, 2024, at 4:00 p.m. (EST) |
| Award at Council Meeting (Tentative) | June 26, 2024 (Tentative) |
| Completion from Notice to Proceed | 120 calendar days |

SCOPE OF WORK: Refer to Exhibit A.

QUESTIONS: Submit all questions in writing to procurement@tuckerga.gov with the subject line “Questions: ITB #2024-013”.

PRE-BID CONFERENCE: A pre-bid conference will not be scheduled for this project.

ADDENDA: Responses to the questions received will be by addenda and will be posted on the City website www.tuckerga.gov/bids. The signed acknowledgement issued with each addendum must be submitted with the proposal. It is the vendors responsibility to verify if any addenda were created.

SUBMITTAL REQUIREMENTS: Vendor shall submit ITB Response no later than June 6, 2024 at 4:00 p.m. electronically to procurement@tuckerga.gov with the subject line “Submittal: ITB #2024-013”. The email must contain the vendor’s contact information. Bid Submittal should be one PDF file and named <Company Name>.ITB 2024-013.Bid Submittal.pdf

BID TABULATON: Preliminary Bid results will be posted on the City’s website, <http://tuckerga.gov/bids> following the bid deadline.

**City of Tucker Invitation to Bid
ITB #2024-013
HUGH HOWELL ROAD SIDEWALK CONSTRUCTION PROJECT**

BID DOCUMENT SUBMITTAL REQUIREMENTS:

1. Unit Price Bid Proposal Form – Exhibit B (Provided)
2. W-9 Form (Provided)
3. Certificate of Insurance
4. Contractor Affidavit (Provided)
5. Subcontractor Affidavit (Provided)
6. Proposed List of Subcontractors
7. Bid Bond Form (Provided)
8. Related Experience and References
9. Contact Form (Provided)
10. Acknowledgement of Addendum issued with each Addendum.

All responses must be received electronically by the Bid Deadline. (Addenda will show any schedule updates). No bids will be received orally or by phone. Late bids will not be considered. Bids received after the deadline will be filed unopened. The City of Tucker reserves the right to reject any and all bids or any part, to waive any formalities to make an award and to re-advertise in the best interest of the City.

The city reserves the right to negotiate pricing and may, in its discretion, award a contract to the lowest responsible and responsive bidder submitting the proposal.

**City of Tucker Invitation to Bid
ITB #2024-013
HUGH HOWELL ROAD SIDEWALK CONSTRUCTION PROJECT**

EXHIBIT A:

PURPOSE, INTENT AND PROJECT DESCRIPTION

The City of Tucker (City), requests that interested parties submit formal electronic bids for the construction of the Hugh Howell Road Sidewalk Project.

A sidewalk is to be constructed on the north side of Hugh Howell Road from Lawrenceville Highway to Mountain Industrial Boulevard (approx. 0.59 miles). Improvements include the construction of sidewalk and trail, minor repairs to curb and gutter, and pavement markings. This document in its entirety for ITB 2024-013 is available for download on the City of Tucker website: <http://tuckerga.gov/bids> or request via email to procurement@tuckerga.gov. All future communications and supporting documents for ITB 2024-013 will be posted on the website.

GENERAL CONDITIONS

The contractor shall execute the work according to and meet the requirements of the following:

- Georgia Department of Transportation (GDOT) Specifications, Standards, and Details;
- The Contract Documents including but not limited to the scope of work, plans, and specifications;
- City of Tucker ordinances and regulations;
- OSHA standards and guidelines
- MUTCD Guidelines
- Any other applicable codes, laws and regulations including but not limited to Section 45-10-20 through 45-10-28 of the Official Code of Georgia Annotated, Title VI of the Civil Rights Act, Drug-Free Workplace Act, and all applicable requirements of the Americans with Disabilities Act of 1990.

The contractor will be responsible for providing all labor, materials, and equipment necessary to perform the work. This is a unit price bid. Payment will be made based on actual work completed.

The contractor is responsible for inspecting the jobsite prior to submitting a bid. No change orders will be issued for differing site conditions.

Materials must come from GDOT approved sources. The contractor will be required to submit in writing a list of proposed sources of materials. When required representative samples will be taken for examination and testing prior to approval. The materials used in the work shall meet all quality requirements of the contract. Materials will not be considered as finally accepted until all tests, including any to be taken from the finished work have been completed and evaluated. Standard Specification 106 – Control of Materials will be used as a guide. All materials will be tested according to the GDOT Sampling, Testing, and Inspection Manual by an approved consultant/lab hired by the City.

The successful bidder must have verifiable experience at construction of similar projects in accordance with these specifications. Bidder shall provide at least three examples and reference information (including company name, project name, contact name, phone number and email address) demonstrating experience successfully completing projects of similar scope.

10% retainage will be withheld from the total amount due the contractor until Final Acceptance of

**City of Tucker Invitation to Bid
ITB #2024-013
HUGH HOWELL ROAD SIDEWALK CONSTRUCTION PROJECT**

work is issued by the City. The City will inspect the work as it progresses.

PROSECUTION AND PROGRESS

The Contractor will mobilize with sufficient forces such that all construction identified as part of this contract shall be substantially completed within 120 days of Notice to Proceed. The contractor will be considered substantially complete when all work required by this contract has been completed (excluding final punch list work).

Upon Notice of Award, the Contractor will be required to submit a Progress Schedule.

Normal workday for this project shall be 7:00AM to 7:00PM and the normal workweek shall be Monday through Friday. Lane closures on Hugh Howell Road are limited to the hours of 9:00AM to 4:00PM. The City will consider extended workdays or workweeks upon written request by the Contractor on a case-by-case basis. No work will be allowed on national holidays (i.e. Memorial Day, July 4th, Labor Day, etc.).

The work will require bidder to provide all labor, administrative forces, equipment, materials and other incidental items to complete all required work. The City shall perform a Final Inspection upon substantial completion of the work. The contractor will be allowed to participate in the Final Inspection. All repairs shall be completed by the contractor at contractor's expense prior to issuance of Final Acceptance.

A one (1) year maintenance bond will be required. The selected contractor will be responsible for the maintenance of materials for one (1) year including watering and replacement of dead materials. The City will conduct an inspection at the end of the warranty period. The contractor will complete any Punch List work within 45 calendar days.

The contractor shall be assessed liquidated damages in the amount of \$200.00 per calendar day for any contract work (excluding punch list items) that is not completed within 120 days of Notice to Proceed. Liquidated damages shall be deducted from the 10% retainage held by the City. The contractor will also be assessed liquidated damages in the amount of \$200.00 per calendar day for not completing any required Punch List work within 45 calendar days.

The contractor shall provide all material, labor, and equipment necessary to perform the work without delay until final completion.

The contractor shall provide a project progress schedule prior to or at the preconstruction meeting. This schedule should accurately represent the intended work and cannot be vague or broad such as listing every road in the contract.

The contractor shall submit a two-week advance schedule every **Friday by 2:00p.m.**, detailing scheduled activities for the following week.

PERMITS AND LICENSES

The contractor shall procure all permits and licenses, pay all charges, taxes and fees, and give all notices necessary and incidental to the due and lawful prosecution of the work.

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BONDING AND INSURANCE REQUIREMENTS

No bid may be withdrawn for a period of forty-five (45) days after the time has been called on the date of opening.

All bids must be accompanied by a Bid Bond of a reputable bonding company authorized to do business in the State of Georgia, in an amount equal to at least five percent (5%) of the total amount of the bid.

Upon Notice of Award, the successful contractor shall submit a Performance Bond pursuant to O.C.G.A. § 36- 91-70 payable to the City of Tucker in the amount of 100% of the total contract price. The successful contractor shall also submit a Payment Bond in the amount of 100% pursuant to O.C.G.A. § 36- 91-90.

Upon Notice of Award, the successful contractor shall procure and maintain a General Liability Insurance Policy with minimum limits of \$1,000,000 per person and \$3,000,000 per occurrence.

MATERIALS

The materials used in the work shall meet all quality requirements of the contract. All materials will meet appropriate GDOT specifications. Materials quality control test types will meet GDOT specifications at a frequency equal to or exceeding that set by those specifications. Contractor will be responsible for replacing any work performed with material from rejected sample lot at no cost to the City.

PUBLIC NOTIFICATION

The contractor shall be responsible for installing variable message signs at each end of the project one week prior to commencement of work requiring lane closure. Payment for this will be included in the item for Traffic Control. The contractor shall be responsible for installing lane closure and construction signage per MUTCD guidelines. Payment for this will be included in the item for Traffic Control. Properties requiring driveway closures be notified no less than one week prior to said closures.

EXISTING CONDITIONS / DEVIATION OF QUANTITIES

All information given in this ITB concerning quantities, scope of work, existing conditions, etc. is for information purposes only. It is the Contractor's responsibility to inspect the project site to verify existing conditions and quantities prior to submitting their bid. This is a Unit Price bid and no payment will be made for additional work without prior written approval from the City. At no time will Contractor proceed with work outside the prescribed scope of services for which additional payment will be requested without the written authorization of the City.

The City reserves the right to add, modify, or delete quantities. The City may also elect to add or eliminate certain work locations at its discretion. The Contractor will not be entitled to any adjustment of unit prices or any other form of additional compensation because of adjustments made to quantities and/or work locations. Contractor will be paid for actual in-place quantities completed and accepted for pay items listed in the Bid Schedule. All other work required by this ITB, plans, specs, standards, etc. but not specifically listed in the Bid Schedule shall be considered "incidental work" and included in the bid prices for items on the Bid Schedule.

**City of Tucker Invitation to Bid
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HUGH HOWELL ROAD SIDEWALK CONSTRUCTION PROJECT**

TRAFFIC CONTROL

The contractor shall, at all times, conduct their work so as to assure the least possible obstruction of traffic. The safety and convenience of the general public and the residents along the roadway and the protection of persons and property shall be provided for by the contractor as specified in the State of Georgia, Department of Transportation Standard Specifications Sections 104.05, 107.09, and 150.

Traffic whose origin and destination is within the limits of the project shall be provided ingress and egress at all times unless otherwise specified by the City. The ingress and egress includes entrances and exits via driveways at various properties, and access to the intersecting roads and streets. The contractor shall maintain sufficient personnel and equipment (including flaggers and traffic control signing) on the project at all times, particularly during inclement weather, to ensure that ingress and egress are safely provided when and where needed.

Two-way traffic shall be maintained at all times, unless otherwise specified or approved by the City. In the event of an emergency situation, the Contractor shall provide access to emergency vehicles and/or emergency personnel through or around the construction area. Any pavement damaged by such an occurrence will be repaired by the Contractor at no additional cost to the City.

The contractor shall furnish, install and maintain all necessary and required barricades, signs and other traffic control devices in accordance with the MUTCD and DOT specifications, and take all necessary precautions for the protection of the workers and safety of the public.

All existing signs, markers and other traffic control devices removed or damaged during construction operations will be reinstalled or replaced at the contractor's expense, except as otherwise called for in the plans. At no time will contractor remove regulatory signing which may cause a hazard to the public.

PROTECTION AND RESTORATION OF PROPERTY AND LANDSCAPE

The contractor shall be responsible for the preservation of all public and private property, crops, fish ponds, trees, monuments, highway signs and markers, fences, grassed and sodded areas, etc. along and adjacent to the highway, road or street, and shall use every precaution necessary to prevent damage or injury thereto, unless the removal, alteration, or destruction of such property is provided for under the contract.

When or where any direct or indirect damage or injury is done to public or private property by or on account of any act, omission, neglect or misconduct in the execution of the work, or in consequence of the non-execution thereof by the contractor, he shall restore, at his/her own expense, such property to a condition similar or equal to that existing before such damage or injury was done, by repairing, rebuilding or otherwise restoring as may be directed, or she/he shall make good such damage or injury in an acceptable manner. The contractor shall correct all disturbed areas before retainage will be released.

ADJUSTING UTILITY STRUCTURES TO GRADE

All sewer manholes and water valves are to be adjusted by the DeKalb County Department of Watershed Management. The contractor shall coordinate required utility adjustments with the CEI Consultant.

City of Tucker Invitation to Bid

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HUGH HOWELL ROAD SIDEWALK CONSTRUCTION PROJECT

THERMOPLASTIC PAVEMENT MARKINGS

This work shall include Thermoplastic Pavement Markings. Final pavement markings shall match the signing & marking plans including center lines, lane lines, turn arrows, crosswalks, stop bars, etc. unless specifically directed otherwise by the City. Final pedestrian crosswalk markings shall adhere to the latest standards. Pavement marking materials shall meet GDOT standard specifications and be on the qualified products list. Temporary pavement markings, where required, shall be included in the pay item for thermoplastic pavement markings. There is no separate pay item for temporary pavement markings.

CLEANUP

All restoration and clean-up work shall be performed daily. Operations shall be suspended if the contractor fails to accomplish restoration and clean-up within an acceptable period of time. Asphalt and other debris shall be removed from gutters, sidewalks, yards, driveways, etc. Failure to perform clean-up activities may result in suspension of the work.

SAFETY

Beginning with mobilization and ending with acceptance of work, the contractor shall be responsible for providing a clean and safe work environment at the project site. The contractor shall comply with all OSHA regulations as they pertain to this project.

SPECIAL CONDITIONS

1. Remove and properly dispose of all demolished asphalt and concrete.
2. All disturbed or damaged grassing and landscaping on backside of sidewalk is to match surrounding conditions. Cost to be included in the "GRADING COMPLETE" bid item.
3. All grass strips between back of curb and front of sidewalk shall be Sod.
4. All cost for landscaping removal and demo of existing pavement/curb & gutter for the project is to be included in the "GRADING COMPLETE" quantity for the project.
5. For all utilities that can't be adjusted by the contractor, coordination shall be conducted with the proper utility company.
6. Contractor shall be required to meet all GDOT lane closure requirements. Signage and all other forms of traffic control shall be included in the "TRAFFIC CONTROL" quantity for the project.
7. For all driveway aprons that require modification, ensure there is proper drainage toward the curb & gutter line.
8. Minor clearing at the northeast corner of E Ponce de Leon Avenue and Idlewood Road to improve sight distance.
9. Yellow ADA detectable warning surfaces should be included in "CONC SIDEWALK, 8 IN" for all ADA ramp construction.
10. Handrail shall be powder-coated black.

SUBCONTRACTOR

Any contractor utilizing a subcontractor must submit a proposed list of subcontractors and a Subcontractor Affidavit (form provided).

**City of Tucker Invitation to Bid
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Exhibit B: Cost Proposal

| Item No. | Item | Unit | Quantity | Unit Price | Amount |
|-----------------------------------|---|------|----------|--------------------|--------|
| Startup and Temporary Cost | | | | | |
| 150-1000 | TRAFFIC CONTROL | LS | 1 | | |
| 210-0100 | GRADING COMPLETE | LS | 1 | | |
| Roadway | | | | | |
| 441-6222 | CONC CURB & GUTTER, 8 IN X 30 IN, TP 2 | LF | 330 | | |
| 310-1101 | GR AGGR BASE CRS, INCL MATL | TN | 61 | | |
| 402-3130 | RECYLED ASPH CONC 12.5 MM SUPERPAVE | TN | 3 | | |
| 441-0104 | CONC SIDEWALK, 4 IN | SY | 1722 | | |
| 441-0108 | CONC SIDEWALK, 8 IN | SY | 197 | | |
| 441-0018 | DRIVEWAY CONCRETE, 8 IN TK | SY | 65 | | |
| 500-3201 | CLASS B CONCRETE, RETAINING WALL (Gravity Wall) | CY | 95 | | |
| 500-9999 | CLASS B CONCRETE, BASE OR PAVEMENT WIDENING | CT | 6 | | |
| 515-2020 | GALV STEEL PIPE HANDRAIL, 2 IN, ROUND | LF | 455 | | |
| Drainage | | | | | |
| 611-8000 | ADJUST CATCH BASIN TO GRADE | EA | 5 | | |
| 668-1105 | CATCH BASIN, GP 1, SPEC DESIGN(SEE 38-0001) | EA | 1 | | |
| Signing & Marking | | | | | |
| 653-1804 | THERMOPLASTIC SOLID TRAF STRIPE, 8 IN, WHITE | LF | 2050 | | |
| 653-1704 | THERMOPLASTIC SOLID TRAF STRIPE, 24 IN, WHITE | LF | 90 | | |
| 610-9001 | REM SIGN | EA | 17 | | |
| 611-5551 | RESET SIGN | EA | 17 | | |
| Erosion Control | | | | | |
| 163-0232 | TEMPORARY GRASSING | AC | 1 | | |
| 163-0550 | CONSTRUCT AND REMOVE INLET SEDIMENT TRAP | EA | 5 | | |
| 165-0105 | MAINTENANCE OF INLET SEDIMENT TRAP | EA | 5 | | |
| 171-0030 | TEMPORARY SILT FENCE, TYPE C | LF | 2600 | | |
| 165-0030 | MAINTENANCE OF TEMPORARY SILT FENCE, TP C | LF | 1300 | | |
| 603-2181 | STN DUMPED RIP RAP, TP 3, 18 IN | SY | 3 | | |
| 700-9300 | SOD | SY | 1700 | | |
| | | | | Total Cost: | |

Company Name: _____

Address: _____

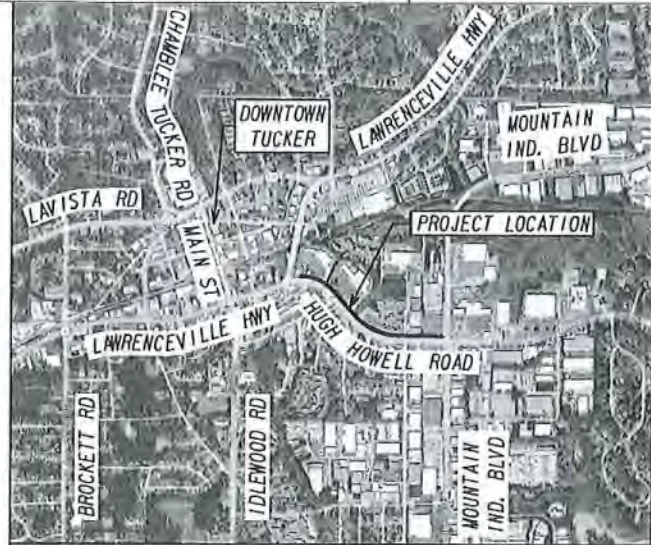
Contact Person: _____

Phone Number: _____

Email Address: _____

Signature: _____

*In case of discrepancy between the unit price and the total price on the completed Bid Schedule, the unit price will prevail, and the total price will be corrected.



LOCATION SKETCH

DESIGN DATA:
TRAFFIC A.D.T.: N/A
TRAFFIC A.D.T.: N/A
TRAFFIC D.H.V.: N/A
DIRECTIONAL DIST: N/A
% TRUCKS: N/A
24 HR. TRUCKS %: N/A
SPEED DESIGN: 45 MPH

LOCATION & DESIGN
APPROVAL DATE: N/A

FUNCTIONAL CLASS:
MINOR ARTERIAL

THIS PROJECT IS 100% IN
DEKALB COUNTY AND IS
100% IN CONG. DIST. NO. 004.

PROJECT DESIGNATION: N/A

THIS PROJECT HAS BEEN PREPARED
USING THE HORIZONTAL GEORGIA
COORDINATE SYSTEM OF 1984 (NAD
1983/94 WEST ZONE, AND THE NORTH
AMERICAN VERTICAL DATUM (NAVD)
OF 1988.

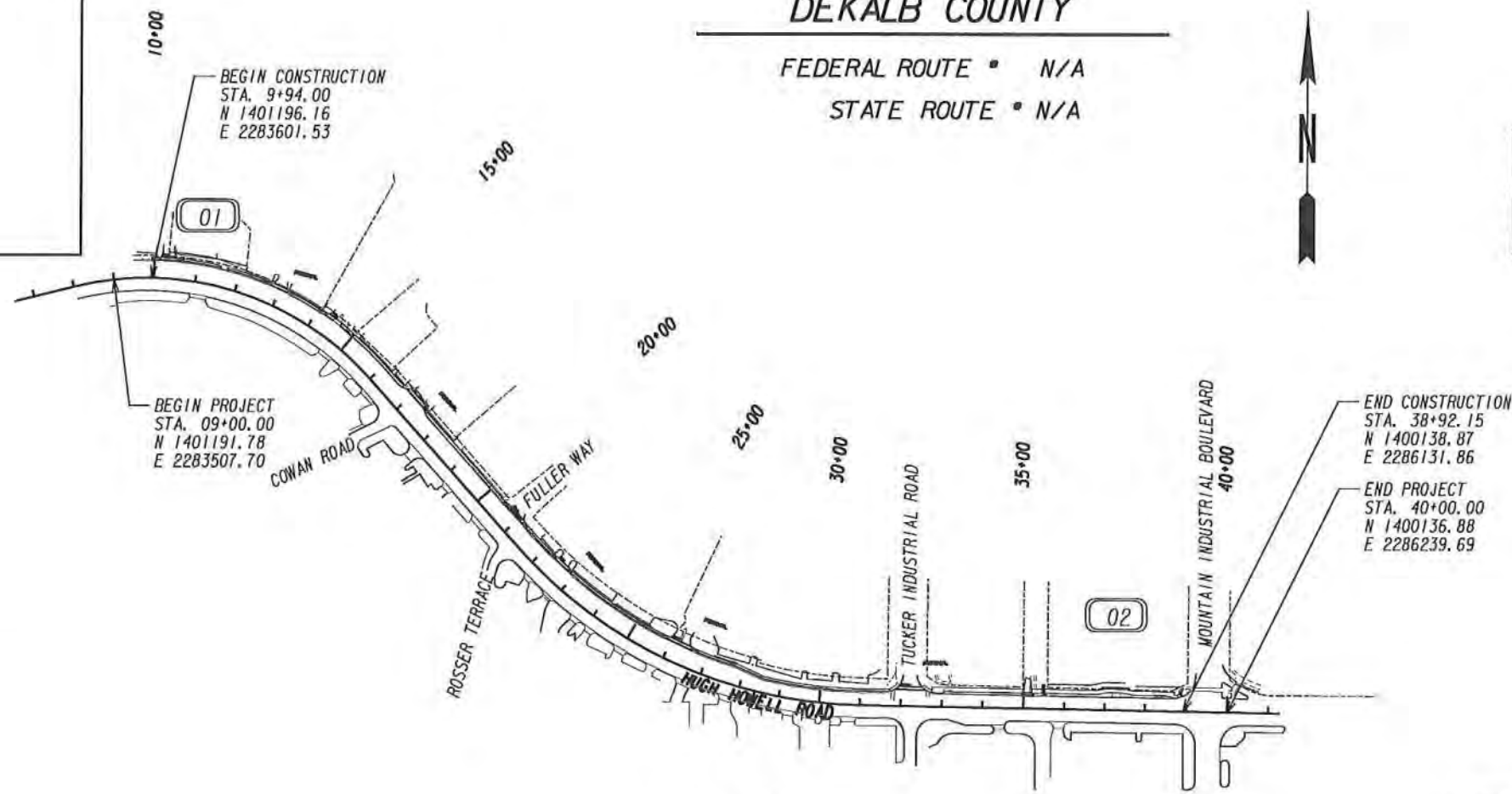
THE DATA, TOGETHER WITH ALL OTHER INFORMATION SHOWN ON THESE PLANS OR IN ANYWAY
INDICATED THEREBY, WHETHER BY DRAWINGS OR NOTES, OR IN ANY OTHER MANNER, ARE BASED UPON
FIELD INVESTIGATIONS AND ARE BELIEVED TO BE INDICATIVE OF ACTUAL CONDITIONS. HOWEVER, THE
SAME ARE SHOWN AS INFORMATION ONLY, ARE NOT GUARANTEED, AND DO NOT BIND THE DEPARTMENT
OF TRANSPORTATION IN ANY WAY. THE ATTENTION OF BIDDER IS SPECIFICALLY DIRECTED TO
SUBSECTIONS 102.04, 102.05, AND 104.03 OF THE SPECIFICATIONS.

CITY OF TUCKER STATE OF GEORGIA

PLAN AND PROFILE OF PROPOSED HUGH HOWELL ROAD SIDEWALK FROM US-29 TO MOUNTAIN INDUSTRIAL BOULEVARD

CITY OF TUCKER
DEKALB COUNTY

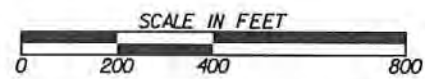
FEDERAL ROUTE * N/A
STATE ROUTE * N/A



THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH THE 2024 CONSTRUCTION
STANDARDS AND DETAILS BOOK AND ATTACHED APPLICABLE REVISIONS. THE 2024
CONSTRUCTION STANDARDS AND DETAILS BOOK IS AVAILABLE AT:
<http://mydcs.dot.ga.gov/Info/gdotpubs/ConstructionStandardsandDetails/Exams/AllItems.aspx>
ANY REVISIONS CONTAINED WITHIN THIS PLAN SET SUPERSEDE THE 2024 CONSTRUCTION
STANDARDS AND DETAILS BOOK WHICH THEY REVISE OR IN WHICH THERE IS A CONFLICT.



PREPARED BY: JOHN B. MORDEN, P.E.



| LENGTH OF PROJECT | COUNTY No. 089 |
|--------------------------|----------------|
| | MILES |
| NET LENGTH OF ROADWAY | 0.5478 |
| NET LENGTH OF BRIDGES | 0.0000 |
| NET LENGTH OF PROJECT | 0.5871 |
| NET LENGTH OF EXCEPTIONS | 0.0000 |
| GROSS LENGTH OF PROJECT | 0.5871 |

Keck+Wood
COLLABORATION BY DESIGN
3090 Premiere Parkway, Suite 200
Duluth, GA 30097
(678) 417-4000 keckwood.com

| PLANS COMPLETED | 05-01-2024 |
|-----------------|------------|
| REVISIONS | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

GENERAL NOTES:

- ALL WORK TO BE DONE IN ACCORDANCE WITH THE CURRENT GEORGIA DEPARTMENT OF TRANSPORTATION (GDOT) STANDARD DETAILS AND THE GDOT STANDARD SPECIFICATIONS FOR THE CONSTRUCTION OF TRANSPORTATION SYSTEMS, LATEST EDITION, AND SUPPLEMENTS THERETO, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION.
- ALL KNOWN UTILITY FACILITIES ARE SHOWN SCHEMATICALLY ON THE PLANS AND ARE NOT NECESSARILY ACCURATE IN LOCATION AS TO PLAN OR ELEVATION. UTILITY FACILITIES SUCH AS SERVICE LINES OR UNKNOWN FACILITIES NOT SHOWN ON THE PLANS WILL NOT RELIEVE THE CONTRACTOR OF HIS OR HER RESPONSIBILITY UNDER THIS REQUIREMENT EXCEPT AS NOTED BELOW. "EXISTING UTILITY FACILITIES" MEANS ANY UTILITY THAT EXISTS ON THE PROJECT IN ITS ORIGINAL, RELOCATED, OR NEWLY INSTALLED POSITION. THE CONTRACTOR WILL NOT BE HELD RESPONSIBLE FOR THE COST OF REPAIRS TO DAMAGED UTILITY FACILITIES OTHER THAN SERVICE FROM STREET MAINS TO ABUTTING PROPERTY, WHEN SUCH FACILITIES ARE NOT SHOWN ON THE PLANS AND THEIR EXISTENCE IS UNKNOWN TO THE CONTRACTOR PRIOR TO THE DAMAGES OCCURRING, PROVIDED THE ENGINEER DETERMINES THE CONTRACTOR HAS OTHERWISE FULLY COMPLIED WITH THE SPECIFICATIONS. ALL UTILITY FACILITIES WHICH ARE IN CONFLICT WITH CONSTRUCTION AND ARE NOT COVERED AS SPECIFIC ITEMS IN THE DETAILED ESTIMATE ARE TO BE REMOVED OR RELOCATED TO CLEAR CONSTRUCTION IN ADVANCE OF THE WORK.
- UTILITY WORK COORDINATION WILL BE REQUIRED AS PART OF THIS CONTRACT. THE CONTRACTOR WILL BE REQUIRED TO USE THE ONE-CALL CENTER TELEPHONE NUMBER, 811, FOR THE PURPOSE OF COORDINATING THE MARKING OF UNDERGROUND UTILITIES. THE CONTRACTOR'S ATTENTION IS CALLED TO SUBSECTION 105.06 OF THE GDOT STANDARD SPECIFICATIONS "COOPERATION WITH UTILITIES".
- ALL UNDERGROUND UTILITIES ARE TO BE LOCATED BY THE UTILITY OWNER OR A "LOCATE" FIRM PRIOR TO EARTH DISTURBING ACTIVITIES.
- THE CONTRACTOR SHALL STRICTLY ADHERE TO DUST CONTROL REGULATIONS. ALL AREAS SUBJECTED TO DUST FORMATION MUST BE PERIODICALLY WATERED SUFFICIENT TO RETARD DUST. ALL COSTS FOR DUST CONTROL SHALL BE INCLUDED IN PRICE BID FOR GRADING COMPLETE - LUMP SUM.
- TYPE OF GRASS OR SOD USED ON THIS PROJECT WILL BE REQUIRED TO MATCH ANY TYPE OF GRASS OR SOD WHICH MAY BE PLANTED AND GROWING ON THE ADJACENT LAWN. I.E. BERMUDA SOD FOR BERMUDA SOD, ZOYSIA FOR ZOYSIA ETC. NO SEPERATE PAYMENT WILL BE MADE FOR ANY COST INCURRED TO COMPLY WITH THIS REQUIREMENT.
- INGRESS AND EGRESS SHALL BE MAINTAINED AT ALL TIMES TO ADJACENT PROPERTIES. REFER TO SUB-SECTION 107.07 OF THE GDOT STANDARD SPECIFICATIONS.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FURNISH SUITABLE BORROW MATERIAL FOR THE PROJECT AND DISPOSE OF ANY UNSUITABLE OR WASTE MATERIAL.
- HORIZONTAL CONTROL IS BASED UPON GEORGIA STATE PLANE COORDINATION SYSTEM.
- ALL DRIVEWAYS THAT ARE TO BE RECONSTRUCTED WILL BE PAVED BACK TO THE TIE IN POINT OR REQUIRED RIGHT OF WAY, WHICHEVER IS GREATER. ALL DRIVEWAYS OVER 11% IN GRADE SHALL BE PAVED WITH CONCRETE. ALL OTHER DRIVEWAYS SHALL BE REPLACED AS FOLLOWS: ASPHALT FOR ASPHALT, CONCRETE FOR CONCRETE AND ASPHALT FOR EARTH/GRAVEL DRIVES. RESIDENTIAL DRIVES SHALL BE 14 FEET WIDE AT THE THROAT UNLESS NOTED OTHERWISE IN THE PLANS. COMMERCIAL DRIVES SHALL BE 24 FEET WIDE UNLESS NOTED OTHERWISE IN THE PLANS. EXISTING DRIVEWAY LOCATIONS ARE SHOWN FROM THE BEST AVAILABLE DATA; THE CONTRACTOR SHALL CONSTRUCT DRIVEWAYS TO MATCH THE LOCATION OF EXISTING DRIVEWAYS AT THE TIE IN POINT, IF APPLICABLE. THE CONTRACTOR SHALL OBTAIN THE APPROVAL FROM THE ENGINEER PRIOR TO MAKING ANY REVISIONS TO LOCATION, WIDTH, AND/OR NUMBER OF DRIVES TO BE CONSTRUCTED. DRIVES SHALL BE CONSTRUCTED USING:

RESIDENTIAL:
ASPHALT - RECYCLED ASPH CONC 12.5mm SUPERPAVE, GP 2 ONLY, INCL. BITUM MATL & H. LIME (165 LB/SY)
GRADED AGGREGATE BASE, 6"
CONCRETE - DRIVEWAY CONCRETE, 6" THICK
COMMERCIAL:
ASPHALT - RECYCLED ASPH CONC 12.5mm SUPERPAVE, GP 2 ONLY, INCL. BITUM MATL & H. LIME (165 LB/SY)
RECYCLED ASPH CONC 19mm SUPERPAVE, GP 1 OR 2, INCL. BITUM MATL & H. LIME (220 LB/SY)
GRADED AGGREGATE BASE, 6"
CONCRETE - DRIVEWAY CONCRETE, 8" THICK
- THE CONTRACTOR SHALL OBSERVE ALL APPLICABLE LOCAL, STATE, AND FEDERAL SAFETY REGULATIONS REGARDING PIPE INSTALLATION IN TRENCHES.
- THE CONTRACTOR'S ATTENTION IS DIRECTED TO ARTICLES 104.05 AND 107.07 OF THE STANDARD SPECIFICATIONS AND THE SPECIAL PROVISIONS FOR TRAFFIC CONTROL AND SEQUENCE OF OPERATIONS IN REGARDS TO MAINTENANCE OF TRAFFIC DURING CONSTRUCTION.
- ALL TEMPORARY SIGNING AND PAVEMENT MARKING SHALL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", CURRENT EDITION AND/OR AS DIRECTED BY THE ENGINEER.
- ALL CUT AND FILL SLOPES SHALL BE GRASSED AS DIRECTED BY THE ENGINEER IMMEDIATELY AFTER THE SLOPES ARE ESTABLISHED IN ORDER TO REDUCE EROSION, IF THE SEASON DOES NOT PERMIT GRASSING, TEMPORARY MULCH SHALL BE USED AS DIRECTED BY THE ENGINEER. REFER TO SECTION 161 OF THE STANDARD SPECIFICATIONS.

- EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO OR CONCURRENT WITH LAND DISTURBANCE ACTIVITIES AND SHALL BE MAINTAINED AT ALL TIMES. ADDITIONAL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON SITE INSPECTION OR AS DIRECTED BY THE ENGINEER.
- ALL SILT FENCES MUST BE PLACED AS ACCESS IS OBTAINED DURING CLEARING, NO GRADING SHALL BE DONE UNTIL SILT FENCE INSTALLATION IS COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ALL SILT FENCES AND TO REPAIR OR REPLACE ANY SILT FENCE THAT IS NOT SATISFACTORY. EROSION CONTROL GATES SHALL BE PLACED IMMEDIATELY AFTER DRAINAGE STRUCTURES ARE IN PLACE. ALL EROSION CONTROL DEVICES SHALL BE PLACED ACCORDING TO THE PLANS AND AS DIRECTED BY THE ENGINEER. SEE THE GEORGIA STANDARD SPECIFICATIONS AND THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA", CURRENT EDITION REGARDING EROSION CONTROL.
- CONTRACTOR TO ADJUST ALL UTILITIES TO FINISHED GRADE UNLESS NOTED OTHERWISE, INCLUDING SANITARY SEWER MANHOLES, WATER METERS, WATER VALVES, GAS METERS, GAS VALVES.
- ANY ADJUSTMENTS OR RELOCATIONS OF DEKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT SHALL BE IN ACCORDANCE WITH THE DEPARTMENT'S DESIGN AND CONSTRUCTION STANDARDS MANUAL.
- CONTRACTOR TO CONFIRM LOCATIONS OF ALL UTILITIES AND INFORM ENGINEER OF ANY CONFLICTS PRIOR TO CONSTRUCTION.
- THE USE OF PRECAST STRUCTURES FOR STORM SEWER IMPROVEMENTS WILL BE DONE SO AT THE CONTRACTOR'S RISK. NO *UTILITY LOCATION FOR THIS PROJECT WAS DETERMINED VIA UTILITY OWNER MARK-UPS.
- ALL ADA WHEELCHAIR RAMPS WITHIN RADI1 SHALL BE 8 INCH THICK CONCRETE.
- CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING AND LOCATING ALL EXISTING IRRIGATION SYSTEMS WITHIN THE PROJECT LIMITS (IF APPLICABLE). NO ADDITIONAL PAYMENT WILL BE MADE FOR REMOVING, RELOCATING, OR REPLACING IRRIGATION SYSTEMS.
- THE CONTRACTOR SHALL ENSURE THAT POSITIVE AND ADEQUATE DRAINAGE IS MAINTAINED AT ALL TIMES WITHIN THE PROJECT LIMITS. SLOPE STABILIZATION (MATTING) SHALL BE PLACED ON CUT AND FILL SLOPES THAT ARE 2.5:1 OR GREATER.
- AT LOCATIONS WHERE NEW PAVEMENT IS TO BE PLACED ADJACENT TO EXISTING PAVEMENT WITHOUT AN OVERLAY OR WHERE CURBING IS TO BE PLACED ACROSS A PAVED AREA, A JOINT SHALL BE SAWED ON A LINE ESTABLISHED BY THE ENGINEER TO ENSURE PAVEMENT REMOVAL TO A NEAT LINE.
- THE CONTRACTOR SHALL ENSURE THAT NO CONSTRUCTION-RELATED ACTIVITIES (SUCH AS THE USE OF EASEMENTS, STAGING, CONSTRUCTION, VEHICULAR USE, BORROW OR WASTE ACTIVITIES, SEDIMENT BASINS, TRAILER PLACEMENT, ETC.) OCCUR IN THE CRITICAL ROOT ZONE (CRZ) OF EXISTING TREES TO REMAIN IN THE RIGHT OF WAY. THIS DOES NOT APPLY TO TREES WITHIN THE CONSTRUCTION LIMITS OR LIMITS OF DISTURBANCE THAT WILL BE REMOVED OR DESTROYED TO ALLOW FOR CONSTRUCTION.
- GRADING COMPLETE INCLUDES BUT IS NOT LIMITED TO MOBILIZATION, CLEARING, GRUBBING, GRADING, DEMOLITION, TEMPORARY MEASURES, SAWCUTTING PAVEMENT, RESETTNG FENCE, RESETTNG MAILBOXES, REPLACING EXISTING SIGNS AND SIGN POSTS, REMOVAL OF TREES AND STUMPS, REMOVAL OF CURB AND PAVEMENT, ADJUSTING MANHOLES, RESETTNG UTILITY BOXES AND UTILITY PEDESTALS, MANHOLE CURB ENTRANCE, 8" UNDERWAY PIPE, FIRE HYDRANTS, WATER VALVES, WATER METERS, AND OTHER UTILITIES TO FINISH GRADE, REPLACING SPECIAL DESIGN AND STANDARD CATCH BASIN TOPS, CONSTRUCTION TESTING, REPLACEMENT OF PRIVATE PROPERTY OWNER FEATURES (IN KIND OR TO THE SATISFACTION OF THE PRIVATE OWNER) DAMAGED OR REMOVED DURING CONSTRUCTION (THIS INCLUDES ITEMS INSIDE AND OUTSIDE THE CONSTRUCTION LIMITS). ANY ITEM NOT SPECIFIED SHALL BE CONSIDERED INCIDENTAL TO THE WORK AND SHALL BE INCLUDED IN THE LUMP SUM PRICE FOR GRADING COMPLETE.
- DISTURBED AREA
HUGH HOWELL ROAD 0.85 ACRE

| UTILITY OWNER | SERVICE |
|-------------------|----------------------|
| ATLANTA GAS LIGHT | GAS |
| AT&T/D | TELECOM |
| AT&T/T | TELECOM TRANSMISSION |
| COMCAST | TELECOM |
| DEKALB COUNTY | TRAFFIC CONTROL |
| DEKALB COUNTY | WATER & SEWER |
| GDOT | TRAFFIC - TELECOM |
| GEORGIA POWER | ELECTRIC |
| CENTURYLINK/LUMEN | TELECOM |
| VERIZON | TELECOM |
| UNITI FIBER | TELECOM |
| ZAYO | TELECOM |



Know what's below.
Call before you dig.

| REVISION DATES | | GENERAL NOTES | |
|----------------|-------|---|--|
| | | HUGH HOWELL ROAD SIDEWALK CITY OF TUCKER | |
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| BACKCHECKED: | DATE: | 04-0001 | |
| CORRECTED: | DATE: | | |
| VERIFIED: | DATE: | | |



GENERAL NOTES - STANDARD SIGNS

- ALL STANDARD HIGHWAY SIGNS SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE DETAILS SHOWN IN THE PLANS, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION, AND THE GEORGIA STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS, AND/OR SPECIAL PROVISIONS.
- SIGN ERECTION STATIONS ARE APPROXIMATE AND MAY BE ADJUSTED TO MEET FIELD CONDITIONS WHERE NECESSARY, BUT SHALL BE WITHIN THE LIMITATIONS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION. NO SIGN LOCATION SHALL BE CHANGED BY THE CONTRACTOR OR BY THE PROJECT ENGINEER WITHOUT PRIOR APPROVAL FROM THE OFFICE OF TRAFFIC OPERATIONS.
- ALL STANDARD HIGHWAY SIGNS SHALL BE ERECTED AT A HEIGHT OF 7 FEET ABOVE THE NORMAL EDGE OF PAVEMENT TO THE BOTTOM OF THE SIGN OR ASSEMBLY.
- HORIZONTAL CLEARANCE FOR STANDARD HIGHWAY SIGNS ON INTERSTATE HIGHWAYS SHALL BE 32 FEET FROM THE NORMAL EDGE OF PAVEMENT TO THE NEARER EDGE OF THE SIGN(S), UNLESS SPECIFIED OTHERWISE IN THE PLANS. HORIZONTAL CLEARANCE FOR STANDARD HIGHWAY SIGNS ON RAMPS SHALL BE 2 FEET FROM THE NORMAL EDGE OF PAVED SHOULDER, OR EDGE OF GRADED SHOULDER WHEN PRESENT.
 - HORIZONTAL CLEARANCE FOR STANDARD HIGHWAY SIGNS ON ALL OTHER ROADWAYS SHALL BE 6 FEET FROM THE EDGE OF THE PAVED SHOULDER OR 12 FEET FROM THE NORMAL EDGE OF PAVEMENT TO THE NEARER EDGE OF THE SIGN(S), WHICHEVER IS GREATER. THE HORIZONTAL CLEARANCE IN NON-MOUNTABLE CURB SECTIONS SHALL BE AT LEAST 2 FEET FROM THE CURB FACE TO THE NEARER EDGE OF THE SIGN(S).
 - HORIZONTAL CLEARANCE FOR STANDARD HIGHWAY SIGNS MOUNTED BEHIND GUARD RAIL SHALL BE 6 FEET FROM THE FACE OF THE GUARD RAIL TO THE NEARER EDGE OF THE SIGN(S).
- SINGLE PLATE, HORIZONTAL RECTANGULAR SIGNS OVER 48 INCHES IN WIDTH SHALL BE MOUNTED ON TWO POSTS WITH 2 EACH 2 INCH x 1/2 INCH x (WIDTH OF SIGN) ALUMINUM OR GALVANIZED STEEL STRAPS. THE STRAPS SHALL BE FLUSH WITH THE BACK OF THE SIGN WITH ONE EACH ACROSS THE TOP AND BOTTOM OF THE SIGN. THE CENTERLINE OF EACH POST SHALL BE INSET 1/6TH OF THE SIGN WIDTH FROM THE EDGE OF THE SIGN. SIGN PLATE BOLT HOLES SHALL BE 3/8 INCH DIAMETER, DRILLED OR PUNCHED, AS SHOWN ON THE SIGN PLATE DETAILS.
- EACH 42 OR 48 INCH WIDE x 18 OR 24 INCH HIGH SIGN REQUIRES ONE 2 INCH x 1/2 INCH x (WIDTH OF SIGN) ALUMINUM OR GALVANIZED STEEL STRAP LOCATED IN THE CENTER OF THE SIGN AND FLUSH WITH THE BACK OF THE SIGN.
- SIGN ASSEMBLIES SHALL BE MOUNTED ON ALUMINUM OR GALVANIZED STEEL STRAP FRAMES. FOR DETAILS AND STRAP SPECIFICATIONS REFER TO SIGN ASSEMBLY-TYPICAL FRAMING DETAILS.
- TYPE 3 (HIGH INTENSITY LENS) REFLECTIVE SHEETING SHALL BE USED FOR ALL STANDARD HIGHWAY SIGNS REQUIRING REFLECTORIZED BACKGROUNDS EXCEPT AS SPECIFIED BELOW OR SPECIFIED OTHERWISE IN THE PLANS. EITHER CLASS 1 OR CLASS 2 ADHESIVE BACKING IS PERMISSIBLE.
- TYPE 9 (VERY HIGH INTENSITY) REFLECTIVE SHEETING SHALL BE USED FOR ALL RED SERIES SIGNS (R1-1, R1-2, R1-3P, R5-1, R5-1A, R5-1B).
- TYPE 9 (VERY HIGH INTENSITY) FLUORESCENT YELLOW GREEN REFLECTIVE SHEETING SHALL BE USED FOR SCHOOL ZONE (S1-1, S2-1, S3-1, S4-3, AND THE TOP PORTION OF THE S5-1) SIGNS, BICYCLE CROSSING (W11-1) SIGNS, AND PEDESTRIAN CROSSING (W11-2 AND W11A-2) SIGNS. SIGNS WITHIN THE SAME ASSEMBLY AS THE SCHOOL ZONE SIGNS SPECIFICALLY LISTED ABOVE AND ALL REGULATORY SIGNS WITHIN THE SCHOOL ZONE SIGNING SHALL HAVE TYPE 9 (VERY HIGH INTENSITY) REFLECTIVE SHEETING BACKGROUNDS OF THE APPROPRIATE COLOR.
- TYPE 9 (VERY HIGH INTENSITY) FLUORESCENT YELLOW REFLECTIVE SHEETING SHALL BE USED FOR ALL WARNING SIGNS.
- A 1*2 INCH MINIMUM AIR SPACE SHALL BE REQUIRED BETWEEN ALL SIGN PLATES WITHIN AN ASSEMBLY.
- WHERE SIGNS WITHIN AN ASSEMBLY EXTEND BELOW THE STANDARD MOUNTING HOLES ON THE POST(S), ADDITIONAL 3*8 INCH DIAMETER HOLE(S), DRILLED OR PUNCHED, SHALL BE REQUIRED TO PROPERLY MOUNT THE ASSEMBLY.
- INTERSTATE SHIELDS SHALL CONTAIN THE WORD GEORGIA. ALL INTERSTATE, U.S., AND GEORGIA SHIELDS REQUIRING ALT, BUS, CONN, LOOP, OR SPUR SHALL USE 4 INCH SERIES "D" LETTERS. REFER TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION, FOR DETAILS.
- FOR DETAILS OF SPECIAL DESIGN HIGHWAY SIGNS, SEE DETAILS OF MISCELLANEOUS SIGNS.
- REFER TO PLAN SHEETS FOR LOCATION OF THE DISTRICT ENGINEERS OFFICE TO BE SHOWN ON ALL R552-1 (LIMITED ACCESS) SIGNS IN THIS PROJECT, IF ANY.
- THE CONTRACTOR WILL, AS REQUESTED BY THE DISTRICT TRAFFIC OPERATIONS ENGINEER, BE REQUIRED TO REMOVE ANY EXISTING SIGNS THAT ARE DUPLICATED OR ARE CONTRARY TO THESE SIGN PLANS.
- ALL EXISTING SIGNS SHALL REMAIN IN PLACE UNLESS SPECIFIED OTHERWISE.

| | |
|-------------|-----|
| pH | 5.3 |
| Resistivity | 0.0 |

County: DEKALB

Pipe Culvert Material Alternates

| TYPE OF INSTALLATION | | PIPE TYPE | | | | | | | | | |
|-----------------------|--------------------------------------|----------------------------------|---|--|-----------------------------------|----------------------------------|------------------------------|--|--|---|--|
| | | CONCRETE | STEEL | | | ALUMINUM | THERMOPLASTIC | | | | |
| | | REINFORCED CONCRETE AASHTO M-170 | CORRUGATED STEEL ALUMINUM COATED (TYPE 2) AASHTO M-36 | CORRUGATED STEEL PLAIN ZINC COATED AASHTO M-36 | POLYMER COATED STEEL AASHTO M-245 | CORRUGATED ALUMINUM AASHTO M-196 | CORRUGATED HDPE AASHTO M-252 | CORRUGATED SMOOTH LINED HDPE TYPE "S" AASHTO M-294 | CORRUGATED SMOOTH LINED POLYPROPYLENE AASHTO M-330 | PVC CORRUGATED SMOOTH INTERIOR AASHTO F-949 | PVC Profile Wall Drain Pipe AASHTO M-304 |
| S T O R M | NON-TRAVEL BEARING (OUTSIDE ROADBED) | INTERSTATE | X | | | | | | | | |
| | NON INTERSTATE | X | X | | X | X | | X | X | X | X |
| D R A I N | TRAVEL BEARING (INSIDE ROADBED) | ADT < 1,500 | X | X | | X | X | | X | X | X |
| | | 1,500 < ADT < 5,000 | X | X | | X | X | | X | X | X |
| | | 5,000 < ADT < 15,000 | X | | | | | | X | X | X |
| | | ADT > 15,000 & INTERSTATES | X | | | | | | | | |
| | GRADE > 10% | | | | X | | | X | X | X | X |
| SIDE DRAIN | | X | X | X | X | X | | X | X | X | X |
| PERMANENT SLOPE DRAIN | | | X | X | X | X | | X | X | X | X |
| PERFORATED UNDERDRAIN | | | X | X | | X | X | X | X | X | X |

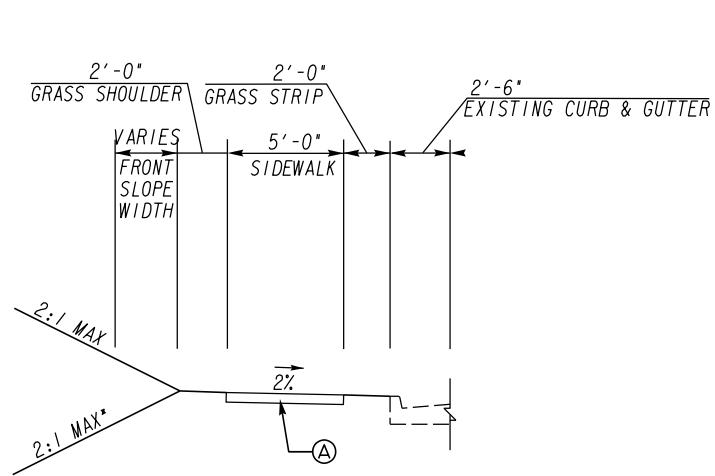
- NOTE:
- Allowable materials are indicated by an 'X'.
 - Structural, installation, fill height and backfill requirements of storm drain pipe will be in accordance with Georgia Standard 1030-D or 1030-P and the Standard Specifications.
 - The Contractor shall provide additional storm sewer capacity calculations if a pipe material other than concrete is selected.
 - Pipe used under mechanically stabilized earth (MSE) walls, within MSE wall backfill, or within five feet of an MSE wall face shall be Class V Concrete Pipe.
- Rev. 1-12-16



| REVISION DATES | | |
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GENERAL NOTES
HUGH HOWELL ROAD SIDEWALK
CITY OF TUCKER

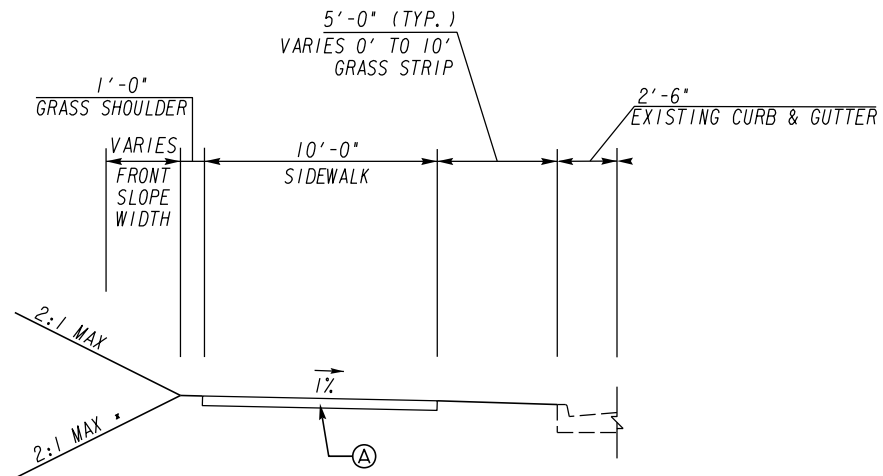
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TYPICAL SECTION 1

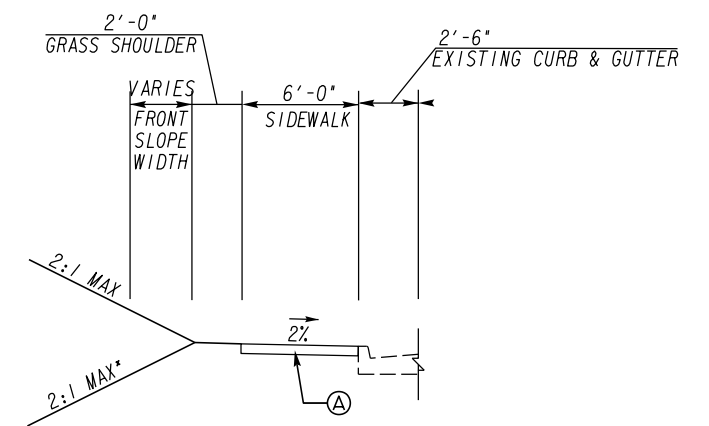
* USE 4:1 MAX FILL SLOPE FROM STA 28+50.00 TO 31+75.00

SR 236/HUGH HOWELL ROAD
STA. 9+94.00 TO STA. 12+10.24
STA. 14+10.63 TO STA. 14+50.00
STA. 21+00.00 TO STA. 24+26.78
STA. 25+39.53 TO STA. 27+15.59
STA. 27+78.39 TO STA. 32+75.78



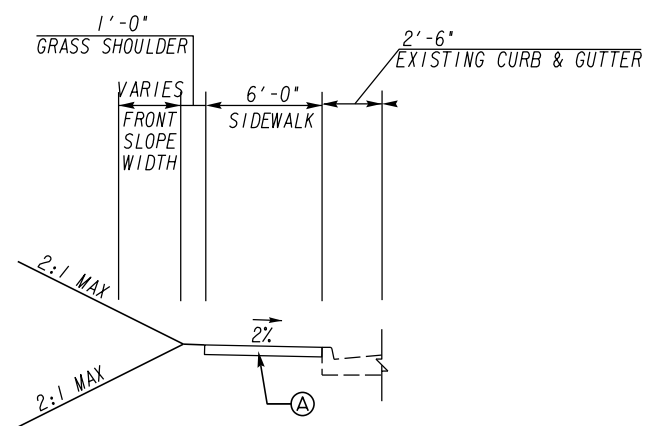
TYPICAL SECTION 2

SR 236/HUGH HOWELL ROAD
STA. 32+75.78 TO 38+70.00



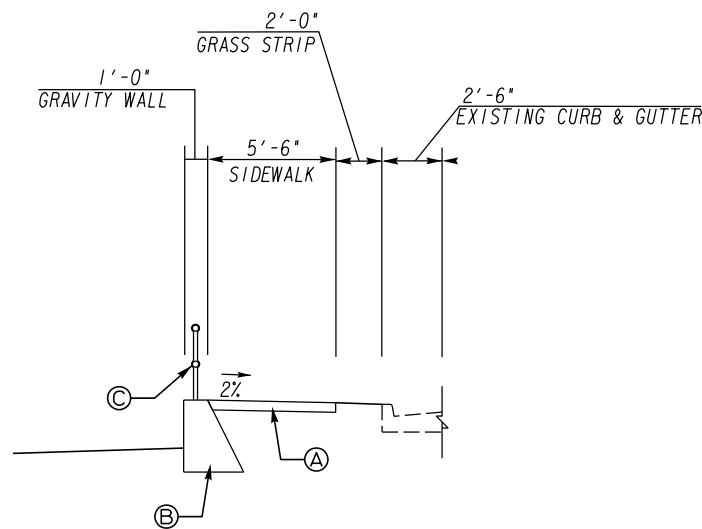
TYPICAL SECTION 3

SR 236/HUGH HOWELL ROAD
STA. 9+94.00 TO STA. 10+25.00
STA. 14+10.63 TO STA. 15+13.25
STA. 38+70.00 TO STA. 38+90.13



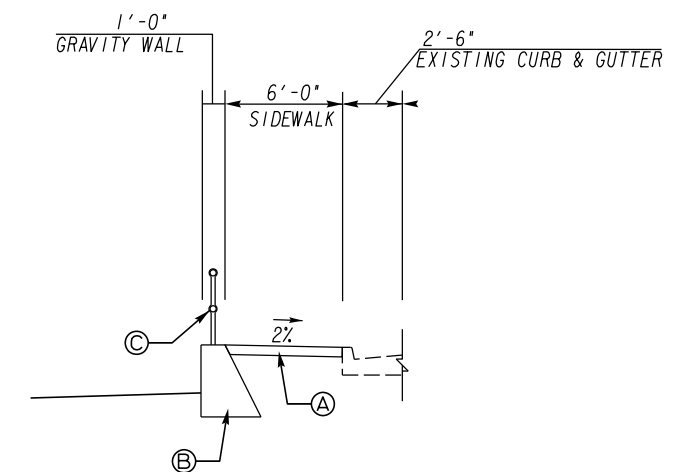
TYPICAL SECTION 4

SR 236/HUGH HOWELL ROAD
STA. 16+24.00 TO STA. 21+00.00



TYPICAL SECTION 5

SR 236/HUGH HOWELL ROAD
STA. 12+10.24 TO STA. 14+10.63
STA. 24+26.78 TO STA. 25+39.53
STA. 27+15.59 TO STA. 27+78.39



TYPICAL SECTION 6

SR 236/HUGH HOWELL ROAD
STA. 15+13.25 TO STA. 16+24.00

- (A) CONCRETE SIDEWALK, 4 IN
- (B) CLASS B CONCRETE RETAINING WALL, GA STD. 9031L
- (C) STEEL PIPE HANDRAIL, GA STD. 9031R (POWDERCOATED BLACK)



NOT TO SCALE

REVISION DATES

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TYPICAL SECTIONS

HUGH HOWELL ROAD SIDEWALK
CITY OF TUCKER

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| BACKCHECKED: | DATE: | 05-0001 |
| CORRECTED: | DATE: | |
| VERIFIED: | DATE: | |

SUMMARY OF QUANTITIES

| EROSION CONTROL ITEMS | | | |
|-----------------------|---|------|-------|
| ITEM No. | DESCRIPTION | UNIT | TOTAL |
| 163-0232 | TEMPORARY GRASSING | AC | 1 |
| 163-0550 | CONSTRUCT AND REMOVE INLET SEDIMENT TRAP | EA | 5 |
| 165-0030 | MAINTENANCE OF TEMPORARY SILT FENCE, TP C | LF | 1300 |
| 165-0105 | MAINTENANCE OF INLET SEDIMENT TRAP | EA | 5 |
| 171-0030 | TEMPORARY SILT FENCE, TYPE C | LF | 2600 |
| 700-9300 | SOD | SY | 1700 |

| ROADWAY ITEMS | | | |
|---------------|---|------|-------|
| ITEM No. | DESCRIPTION | UNIT | TOTAL |
| 441-6222 | CONC CURB AND GUTTER, 8X30 TP 2 | LF | 330 |
| 310-1101 | GR AGGR BASE CRS, INCL MATL | TN | 61 |
| 402-3130 | RECY ASPH CONC 12.5 mm SUPERPAVE | TN | 3 |
| 441-0104 | CONC SIDEWALK, 4 IN | SY | 1722 |
| 441-0108 | CONC SIDEWALK, 8 IN | SY | 197 |
| 441-0018 | DRIVEWAY CONCRETE, 8 IN TK | SY | 65 |
| 441-4030 | CONC VALLEY GUTTER, 8 IN | SY | 28 |
| 500-3201 | CLASS B CONCRETE, RETAINING WALL | CY | 95 |
| 500-9999 | CLASS B CONC, BASE OR PAVEMENT WIDENING | CY | 6 |
| 515-2020 | *GALV STEEL PIPE HANDRAIL, 2 IN, ROUND | LF | 455 |

*Note: HANDRAIL TO BE POWDERCOATED BLACK.

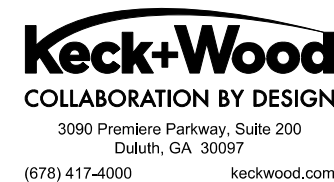
| SIGNING AND MARKING ITEMS | | | |
|---------------------------|---|------|-------|
| ITEM No. | DESCRIPTION | UNIT | TOTAL |
| 653-1804 | THERMOPLASTIC SOLID TRAF STRIPE, 8 IN, WHITE | LF | 2050 |
| 653-1704 | THERMOPLASTIC SOLID TRAF STRIPE, 24 IN, WHITE | LF | 90 |
| 610-9001 | REM SIGN | EA | 17 |
| 611-5551 | RESET SIGN | EA | 17 |

| MISCELLANEOUS | | | |
|---------------|------------------|----------|---|
| DESCRIPTION | UNIT | QUANTITY | |
| 150-1000 | TRAFFIC CONTROL | LS | 1 |
| 210-0100 | GRADING COMPLETE | LS | 1 |

| DRAINAGE ITEMS | | | | | |
|------------------|----------|------|---|----|----|
| STRUCTURE NUMBER | LOCATION | SIDE | *668-1105 CATCH BASIN, GP 1, SPCL DES | | |
| | | | EA | SY | EA |
| | | | 603-2181 STN DUMPED RIP RAP, TP 3, 18 IN | | |
| | | | **611-8000 ADJUST CATCH BASIN TO GRADE | | |
| 1 | 19+25 | LT | | | 1 |
| 2 | 20+38 | LT | | | 1 |
| 3 | 21+50 | LT | | | 1 |
| 4 | 22+98 | LT | | | 1 |
| 5 | 31+58 | LT | | | 1 |
| 6 | 35+49 | LT | 1 | 3 | |
| TOTAL | | | 1 | 3 | 5 |

*Note: SEE 38-0001-SPECIAL CONSTRUCTION DETAIL

**NOTE: AS NEEDED BY ENGINEER



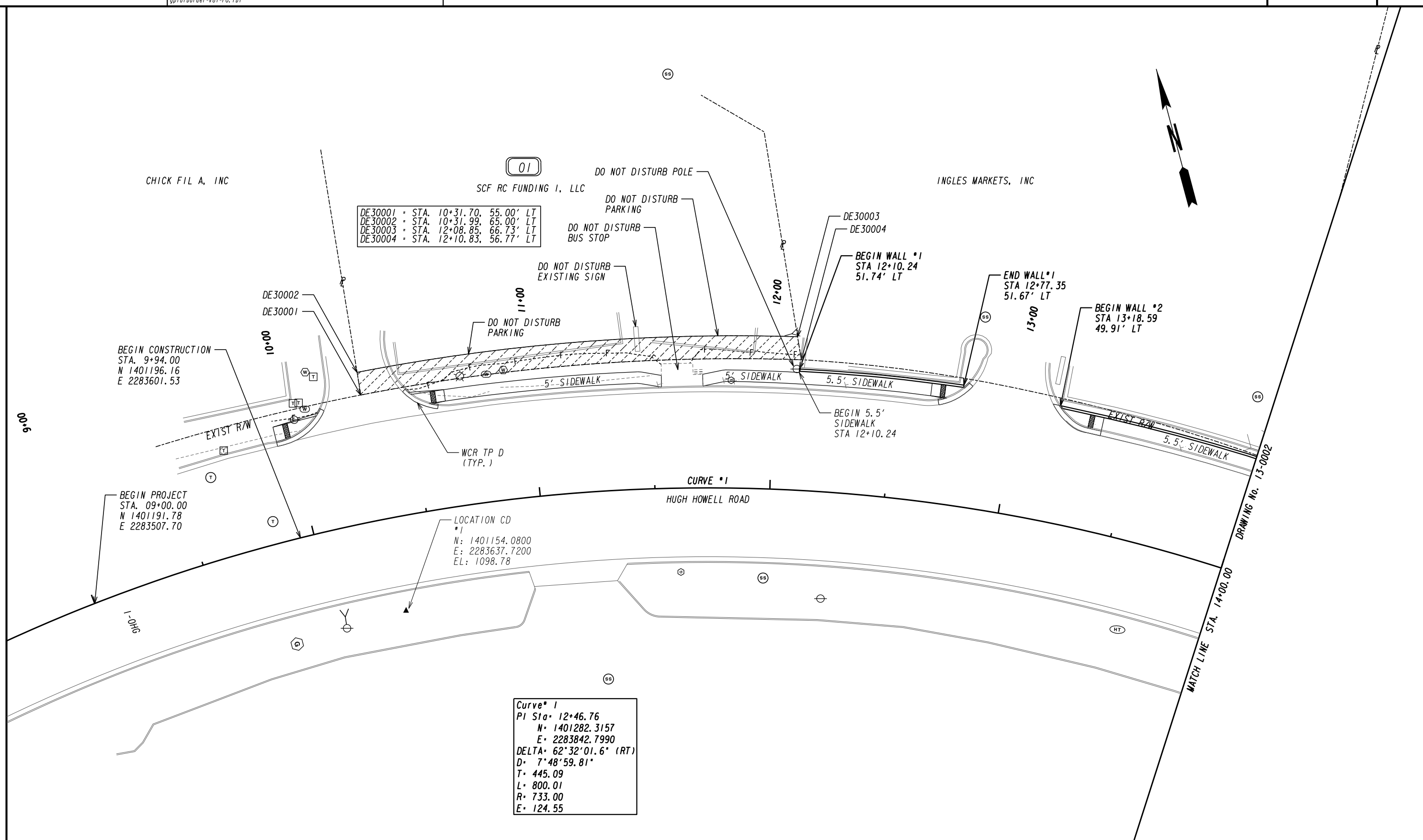
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SUMMARY QUANTITIES

HUGH HOWELL ROAD SIDEWALK
CITY OF TUCKER

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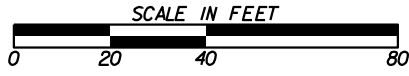
| | | | |
|---------|---|----------------|-----------|
| DE30001 | = | STA. 10+31.70, | 55.00' LT |
| DE30002 | = | STA. 10+31.99, | 65.00' LT |
| DE30003 | = | STA. 12+08.85, | 66.73' LT |
| DE30004 | = | STA. 12+10.83, | 56.77' LT |

| | |
|------------------|------------------|
| Curve # 1 | |
| PI Sta | 12+46.76 |
| N | 1401282.3157 |
| E | 2283842.7990 |
| DELTA | 62°32'01.6" (RT) |
| D | 7'48'59.81" |
| T | 445.09 |
| L | 800.01 |
| R | 733.00 |
| E | 124.55 |

| | |
|---|-------------------|
| PROPERTY AND EXISTING R/W LINE | -----e----- |
| REQUIRED R/W LINE | ----- |
| CONSTRUCTION LIMITS | -----C-----F----- |
| EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES | [Hatched Box] |
| EASEMENT FOR CONSTR OF SLOPES | [Hatched Box] |
| EASEMENT FOR CONSTR OF DRIVES | [Hatched Box] |

| | |
|--|--------------|
| BEGIN LIMIT OF ACCESS.....BLA | -----o----- |
| END LIMIT OF ACCESS.....ELA | -----o----- |
| REQ'D LIMIT OF ACCESS | ----- ----- |
| REQ'D LIMIT OF ACCESS & R/W | ----- ----- |
| ORANGE BARRIER FENCE | -----●----- |
| ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE) | -----▼----- |

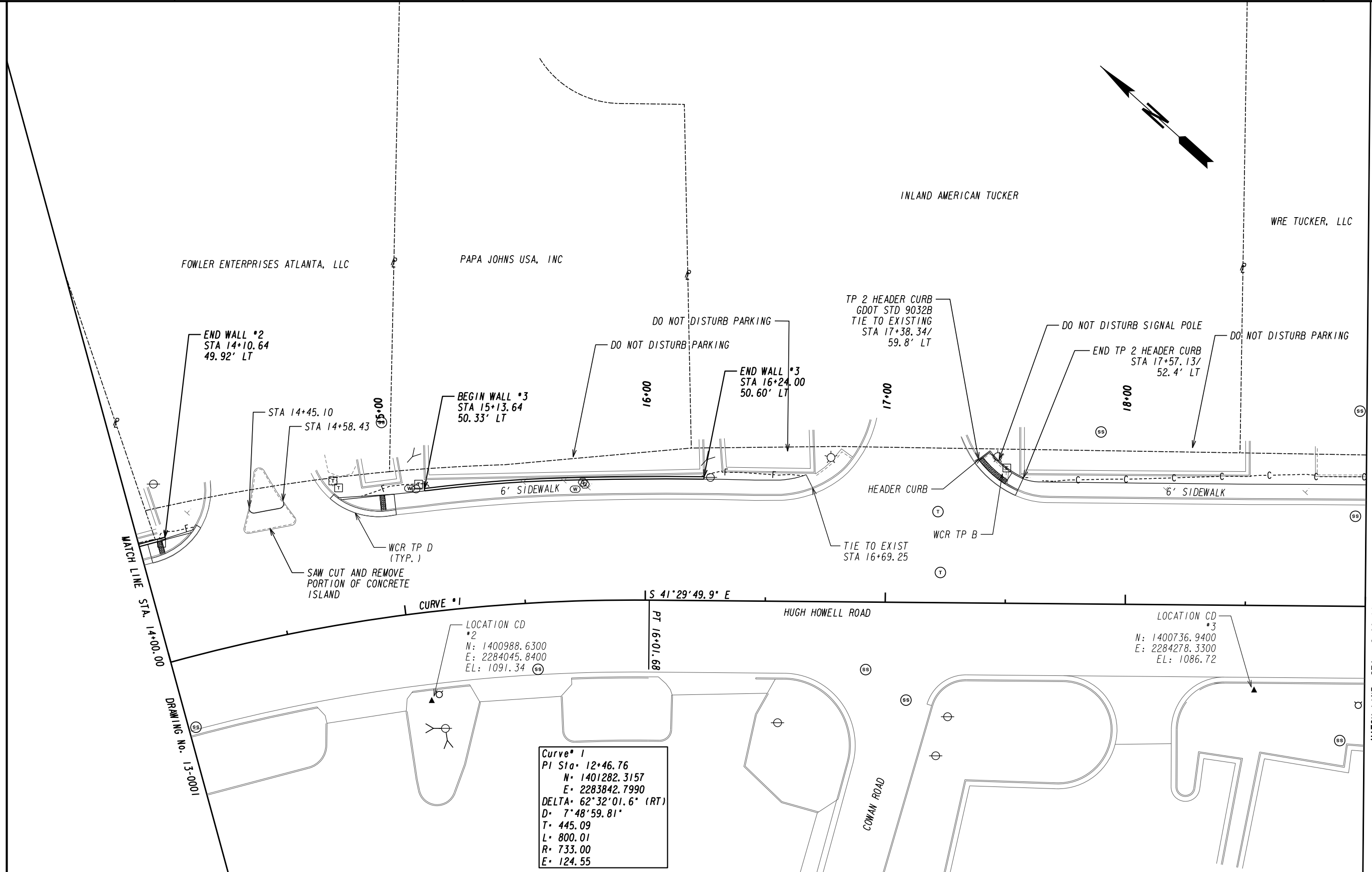
Keck+Wood
COLLABORATION BY DESIGN
3090 Premiere Parkway, Suite 200
Duluth, GA 30097
(678) 417-4000 keckwood.com



| REVISION DATES | |
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CONSTRUCTION PLAN
HUGH HOWELL ROAD SIDEWALK
CITY OF TUCKER

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| CHECKED: | DATE: | DRAWING No. |
| BACKCHECKED: | DATE: | 13-0001 |
| CORRECTED: | DATE: | |
| VERIFIED: | DATE: | |



MATCH LINE STA. 14+00.00
DRAWING No. 13-0001

MATCH LINE STA. 19+00.00
DRAWING No. 13-0003

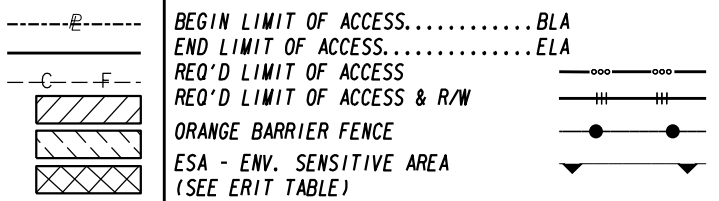
CURVE #1
S 41°29'49.9" E
PT 16+01.68

LOCATION CD #2
N: 1400988.6300
E: 2284045.8400
EL: 1091.34

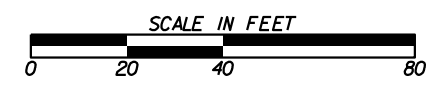
LOCATION CD #3
N: 1400736.9400
E: 2284278.3300
EL: 1086.72

Curve #1
PI Sta: 12+46.76
N: 1401282.3157
E: 2283842.7990
DELTA: 62°32'01.6" (RT)
D: 7'48'59.81"
T: 445.09
L: 800.01
R: 733.00
E: 124.55

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR
& MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES



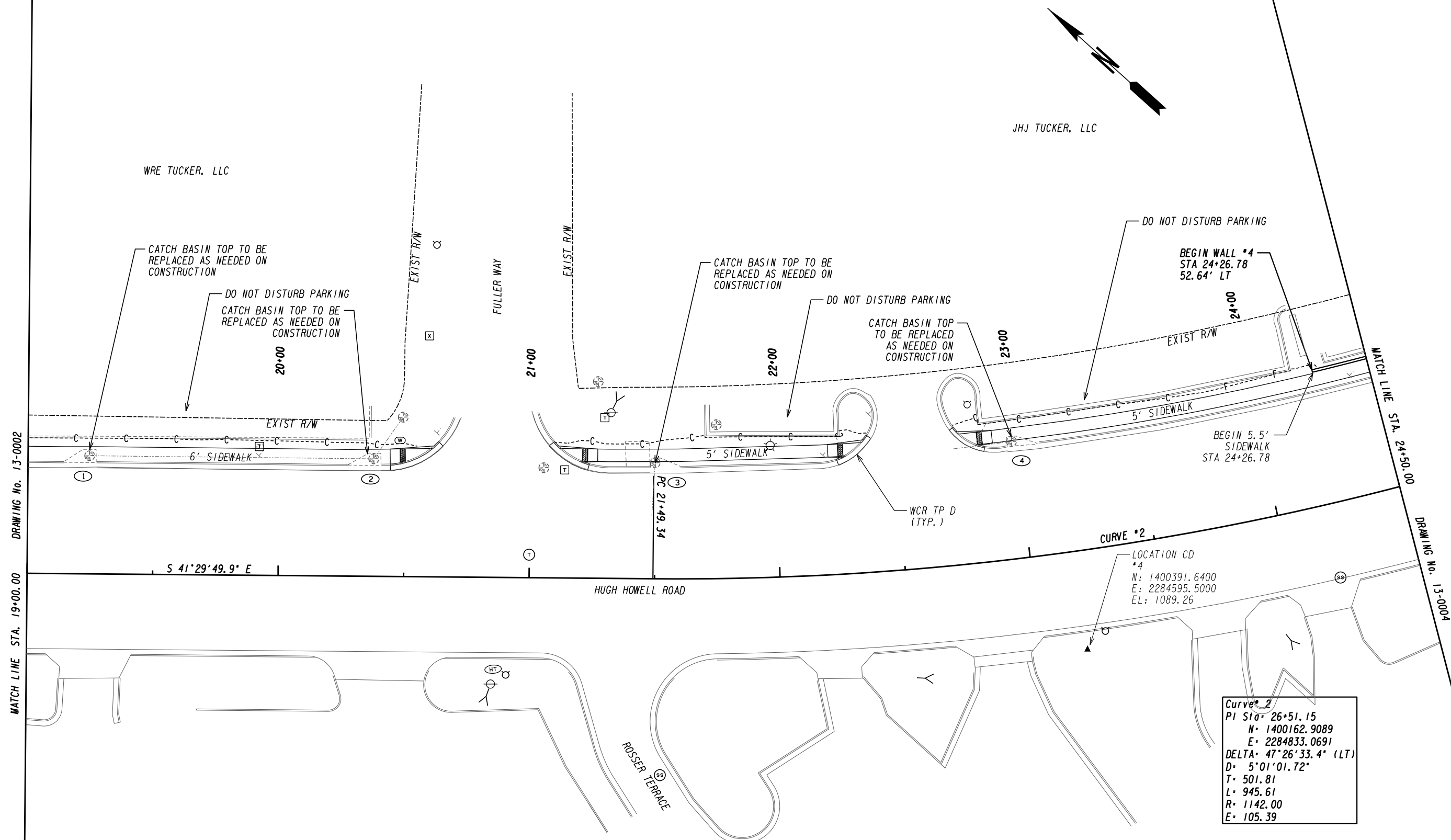
Keck+Wood
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3090 Premiere Parkway, Suite 200
Duluth, GA 30097
(678) 417-4000 keckwood.com



| REVISION DATES | |
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CONSTRUCTION PLAN
HUGH HOWELL ROAD SIDEWALK
CITY OF TUCKER

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| CHECKED: | DATE: | DRAWING No. |
| BACKCHECKED: | DATE: | 13-0002 |
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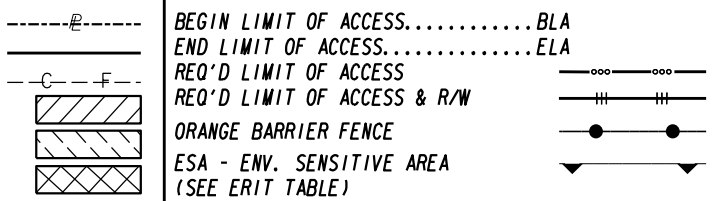
DRAWING No. 13-0002
MATCH LINE STA. 19+00.00

DRAWING No. 13-0004
MATCH LINE STA. 24+50.00

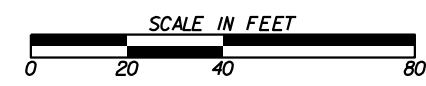
LOCATION CD #4
 N: 1400391.6400
 E: 2284595.5000
 EL: 1089.26

Curve #2
 PI Sta: 26+51.15
 N: 1400162.9089
 E: 2284833.0691
 DELTA: 47°26'33.4" (LT)
 D: 5'01'01.72"
 T: 501.81
 L: 945.61
 R: 1142.00
 E: 105.39

PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES



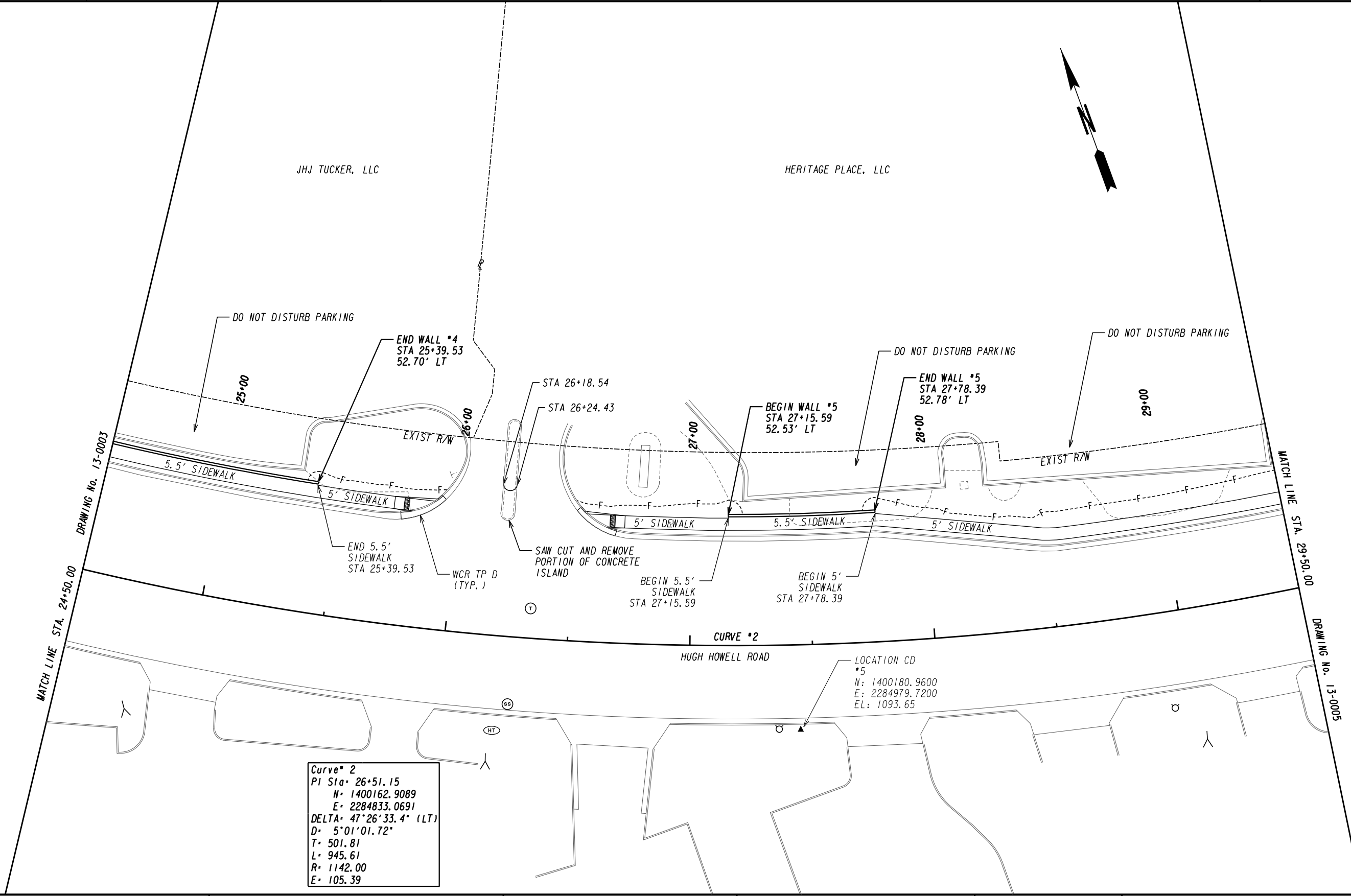
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| REVISION DATES | |
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CONSTRUCTION PLAN
 HUGH HOWELL ROAD SIDEWALK
 CITY OF TUCKER

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| CHECKED: | DATE: | DRAWING No. |
| BACKCHECKED: | DATE: | 13-0003 |
| CORRECTED: | DATE: | |
| VERIFIED: | DATE: | |

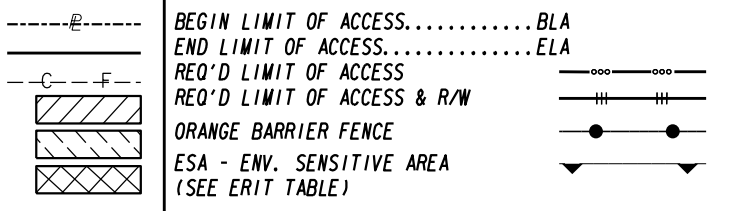


MATCH LINE STA. 24+50.00
DRAWING No. 13-0003

MATCH LINE STA. 29+50.00
DRAWING No. 13-0005

Curve # 2
 PI Sta: 26+51.15
 N: 1400162.9089
 E: 2284833.0691
 DELTA: 47°26'33.4" (LT)
 D: 5'01'01.72"
 T: 501.81
 L: 945.61
 R: 1142.00
 E: 105.39

PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES



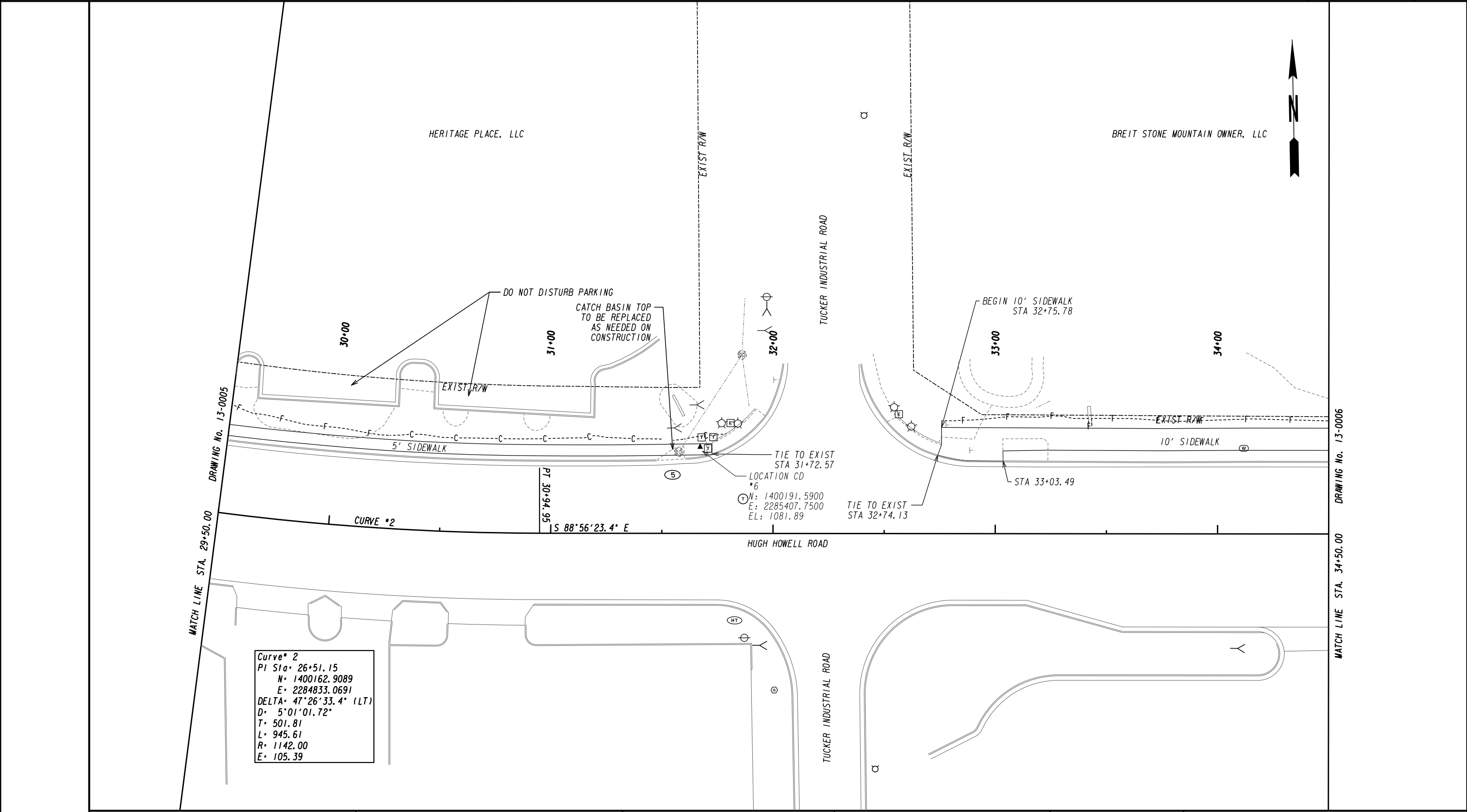
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| REVISION DATES | |
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CONSTRUCTION PLAN
 HUGH HOWELL ROAD SIDEWALK
 CITY OF TUCKER

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| BACKCHECKED: | DATE: | 13-0004 |
| CORRECTED: | DATE: | |
| VERIFIED: | DATE: | |



DRAWING No. 13-0005
 MATCH LINE STA. 29+50.00

DRAWING No. 13-0006
 MATCH LINE STA. 34+50.00

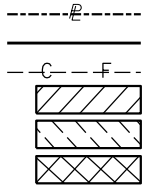
Curve # 2
 PI Sta: 26+51.15
 N: 1400162.9089
 E: 2284833.0691
 DELTA: 47°26'33.4" (LT)
 D: 5°01'01.72"
 T: 501.81
 L: 945.61
 R: 1142.00
 E: 105.39

PT 30+94.95
 S 88°56'23.4" E

TIE TO EXIST STA 31+72.57
 LOCATION CD *6
 N: 1400191.5900
 E: 2285407.7500
 EL: 1081.89

TIE TO EXIST STA 32+74.13

PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES



BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 REQ'D LIMIT OF ACCESS
 REQ'D LIMIT OF ACCESS & R/W
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)

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| REVISION DATES | |
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CONSTRUCTION PLAN
 HUGH HOWELL ROAD SIDEWALK
 CITY OF TUCKER

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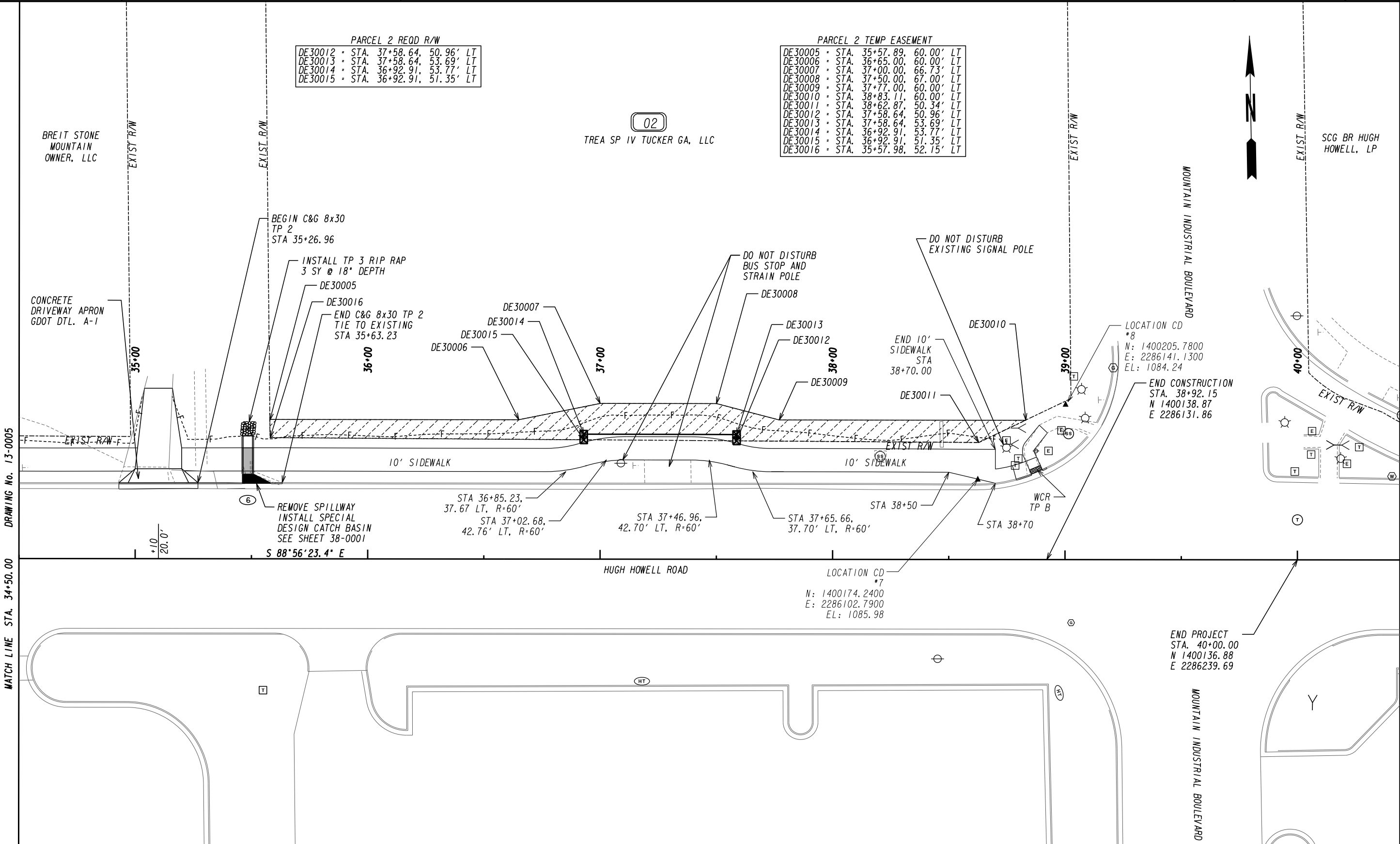
PARCEL 2 REQD R/W

| | | |
|---------|---------------|-----------|
| DE30012 | STA. 37+58.64 | 50.96' LT |
| DE30013 | STA. 37+58.64 | 53.69' LT |
| DE30014 | STA. 36+92.91 | 53.77' LT |
| DE30015 | STA. 36+92.91 | 51.35' LT |

PARCEL 2 TEMP EASEMENT

| | | |
|---------|---------------|-----------|
| DE30005 | STA. 35+57.89 | 60.00' LT |
| DE30006 | STA. 36+65.00 | 60.00' LT |
| DE30007 | STA. 37+00.00 | 66.73' LT |
| DE30008 | STA. 37+50.00 | 67.00' LT |
| DE30009 | STA. 37+77.00 | 60.00' LT |
| DE30010 | STA. 38+83.11 | 60.00' LT |
| DE30011 | STA. 38+62.87 | 50.34' LT |
| DE30012 | STA. 37+58.64 | 50.96' LT |
| DE30013 | STA. 37+58.64 | 53.69' LT |
| DE30014 | STA. 36+92.91 | 53.77' LT |
| DE30015 | STA. 36+92.91 | 51.35' LT |
| DE30016 | STA. 35+57.98 | 52.15' LT |

02
TREA SP IV TUCKER GA, LLC

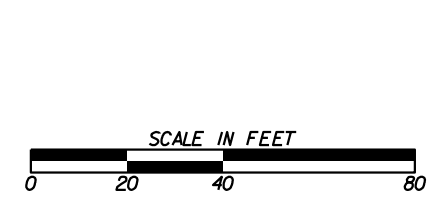


DRAWING No. 13-0005
MATCH LINE STA. 34+50.00

| | |
|---|-------------|
| PROPERTY AND EXISTING R/W LINE | --- |
| REQUIRED R/W LINE | --- |
| CONSTRUCTION LIMITS | --- |
| EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES | ---C---F--- |
| EASEMENT FOR CONSTR OF SLOPES | ---C---F--- |
| EASEMENT FOR CONSTR OF DRIVES | ---C---F--- |

| | |
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| BEGIN LIMIT OF ACCESS.....BLA | --- |
| END LIMIT OF ACCESS.....ELA | --- |
| REQ'D LIMIT OF ACCESS | --- |
| REQ'D LIMIT OF ACCESS & R/W | --- |
| ORANGE BARRIER FENCE | --- |
| ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE) | --- |

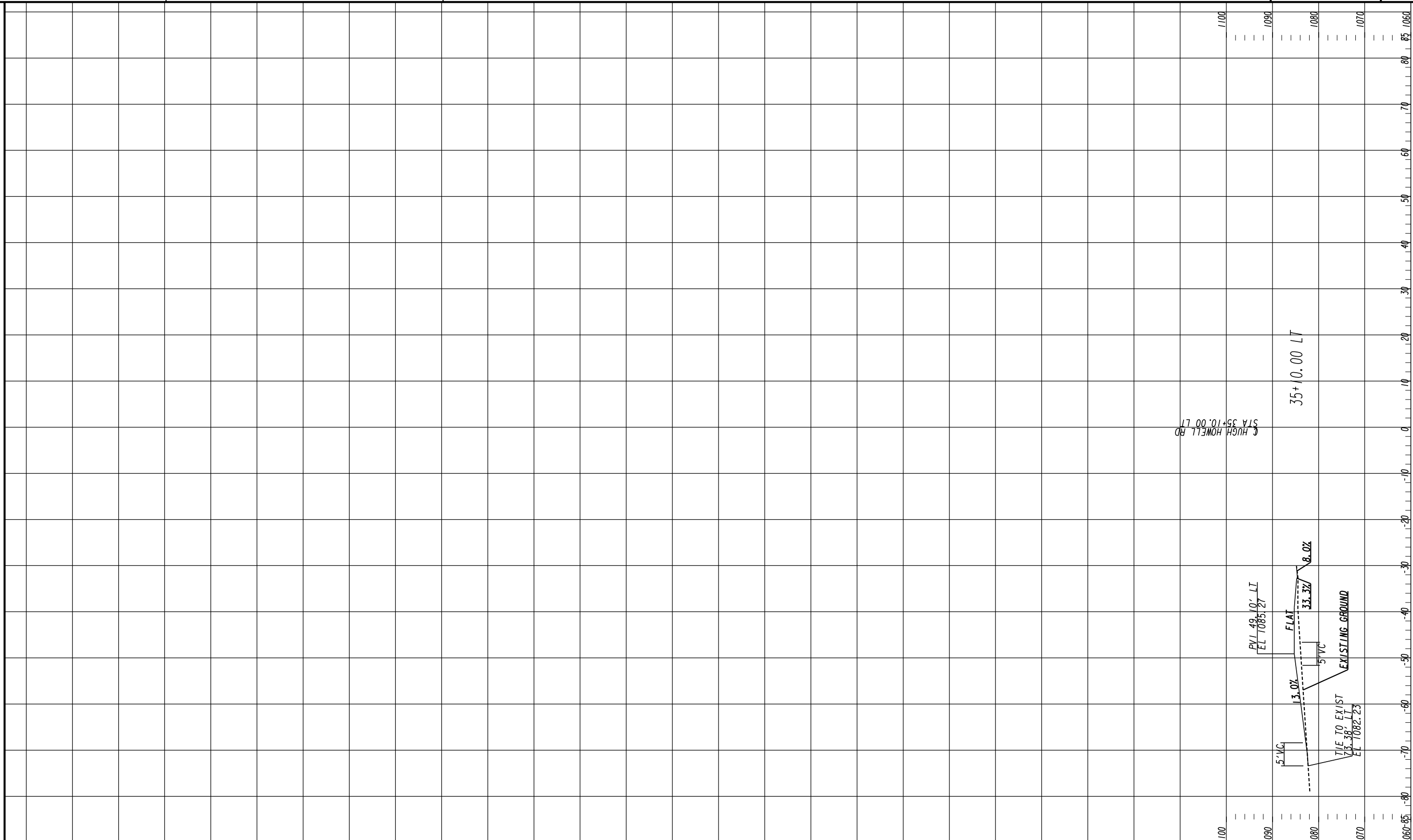
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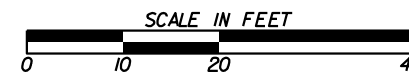
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CONSTRUCTION PLAN
HUGH HOWELL ROAD SIDEWALK
CITY OF TUCKER

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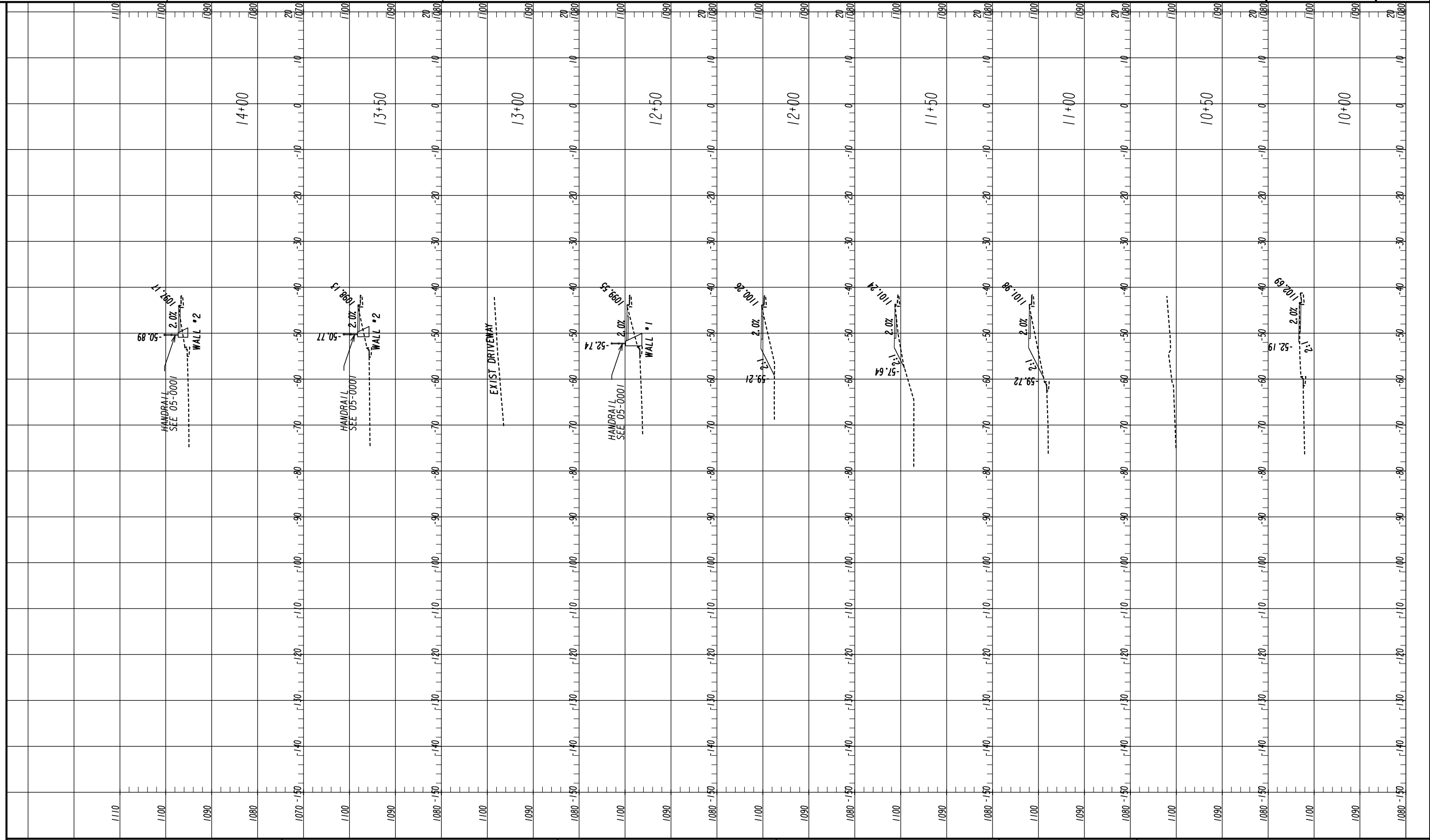
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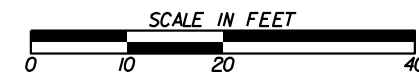
DRIVEWAY PROFILES

HUGH HOWELL ROAD SIDEWALK
CITY OF TUCKER

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| CHECKED: | DATE: | DRAWING No. |
| BACKCHECKED: | DATE: | 17-0001 |
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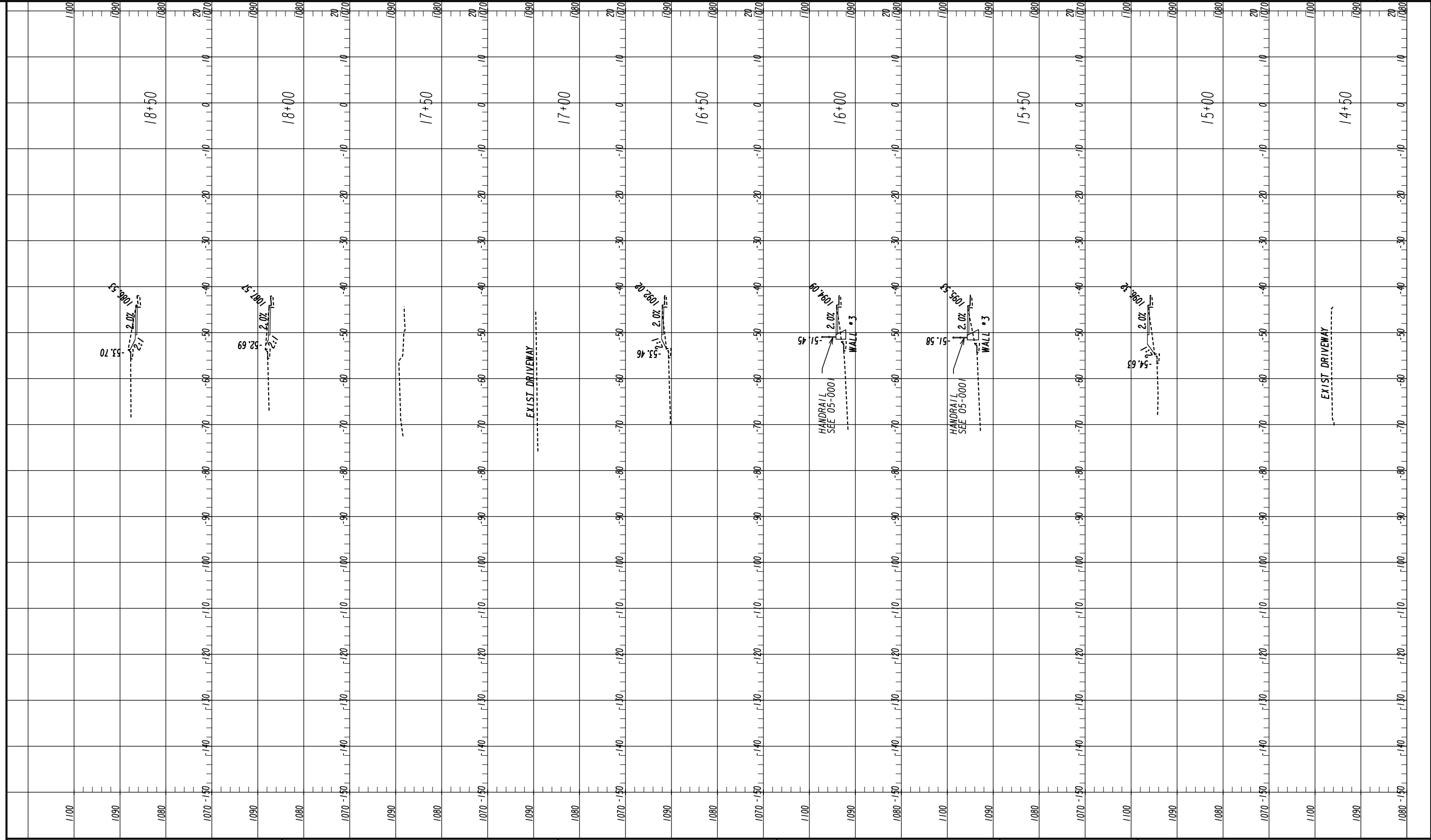
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CROSS SECTIONS

HUGH HOWELL ROAD SIDEWALK
CITY OF TUCKER

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| BACKCHECKED: | DATE: | 23-0001 |
| CORRECTED: | DATE: | |
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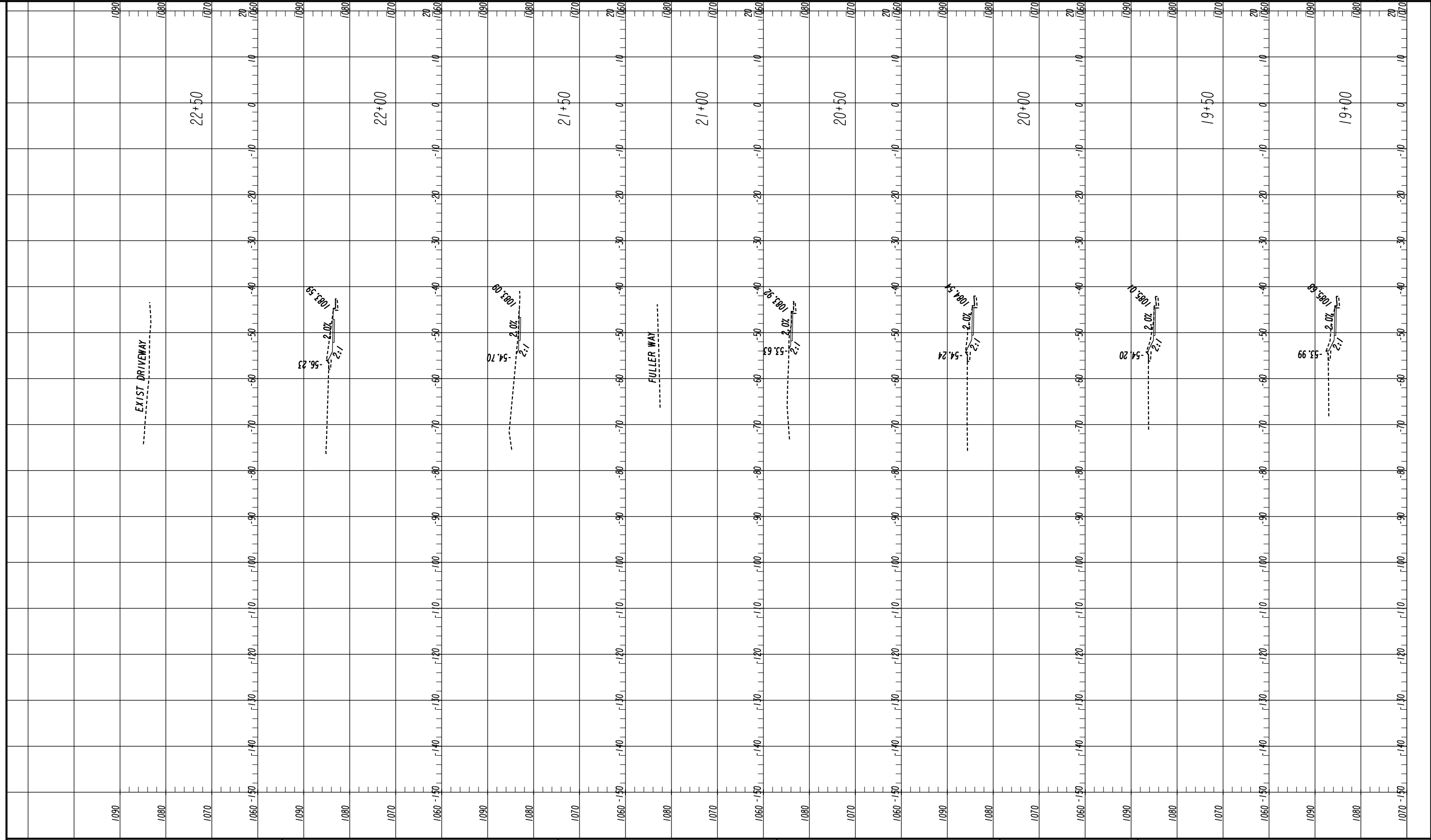
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CROSS SECTIONS

HUGH HOWELL ROAD SIDEWALK
CITY OF TUCKER

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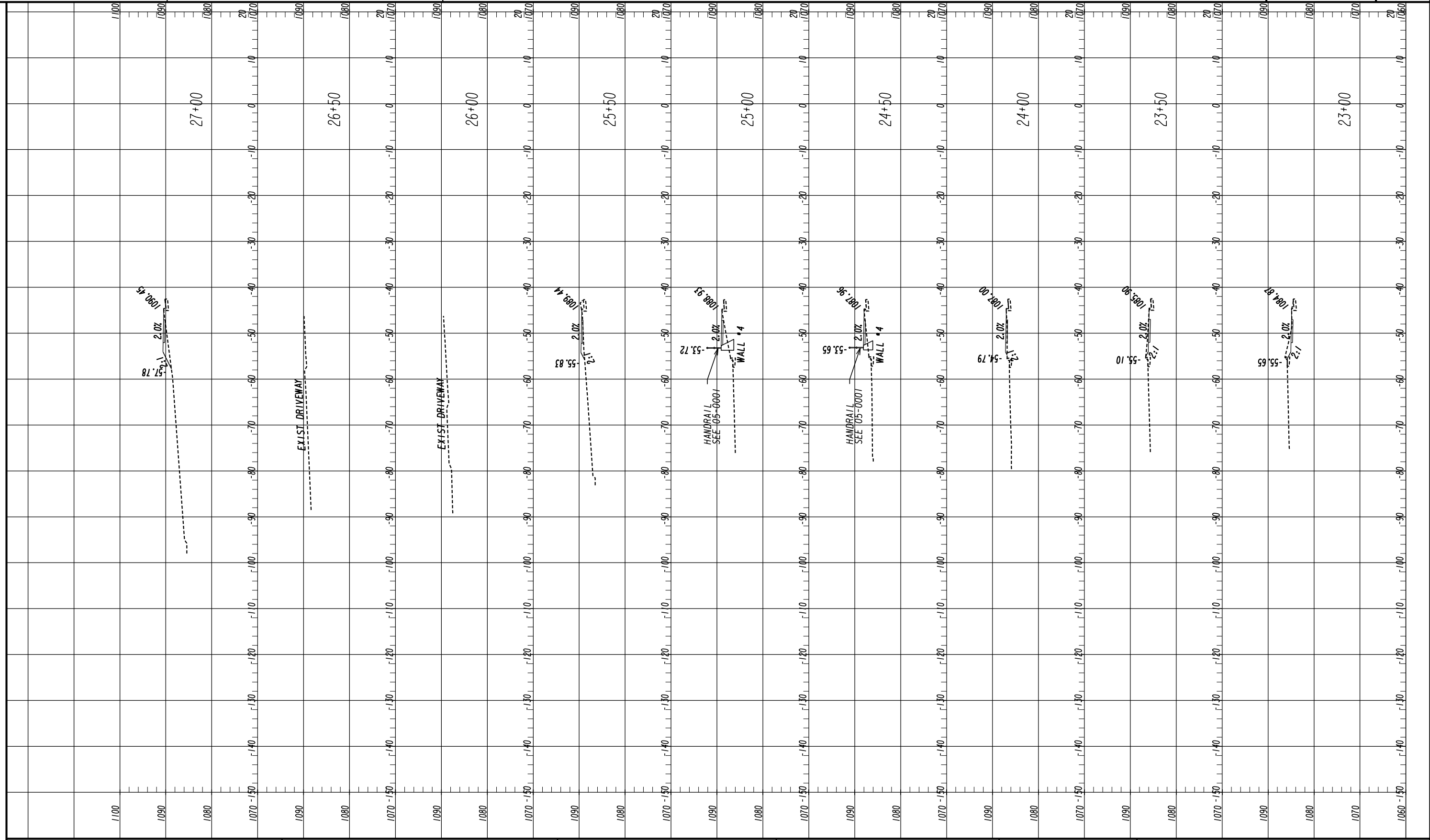
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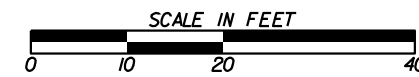
CROSS SECTIONS

HUGH HOWELL ROAD SIDEWALK
CITY OF TUCKER

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| BACKCHECKED: | DATE: | |
| CORRECTED: | DATE: | |
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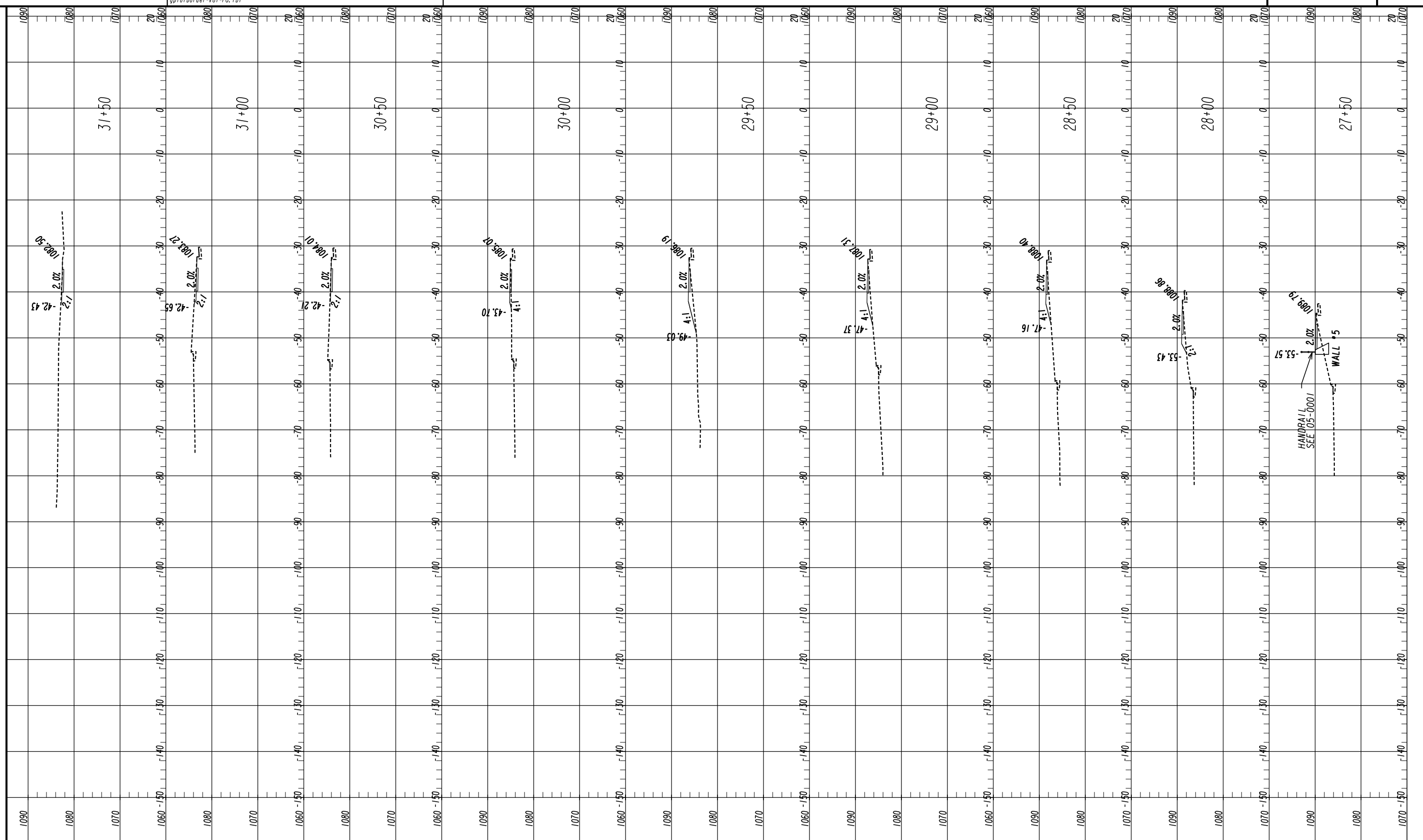
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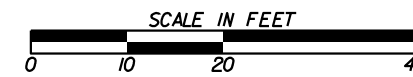
CROSS SECTIONS

HUGH HOWELL ROAD SIDEWALK
CITY OF TUCKER

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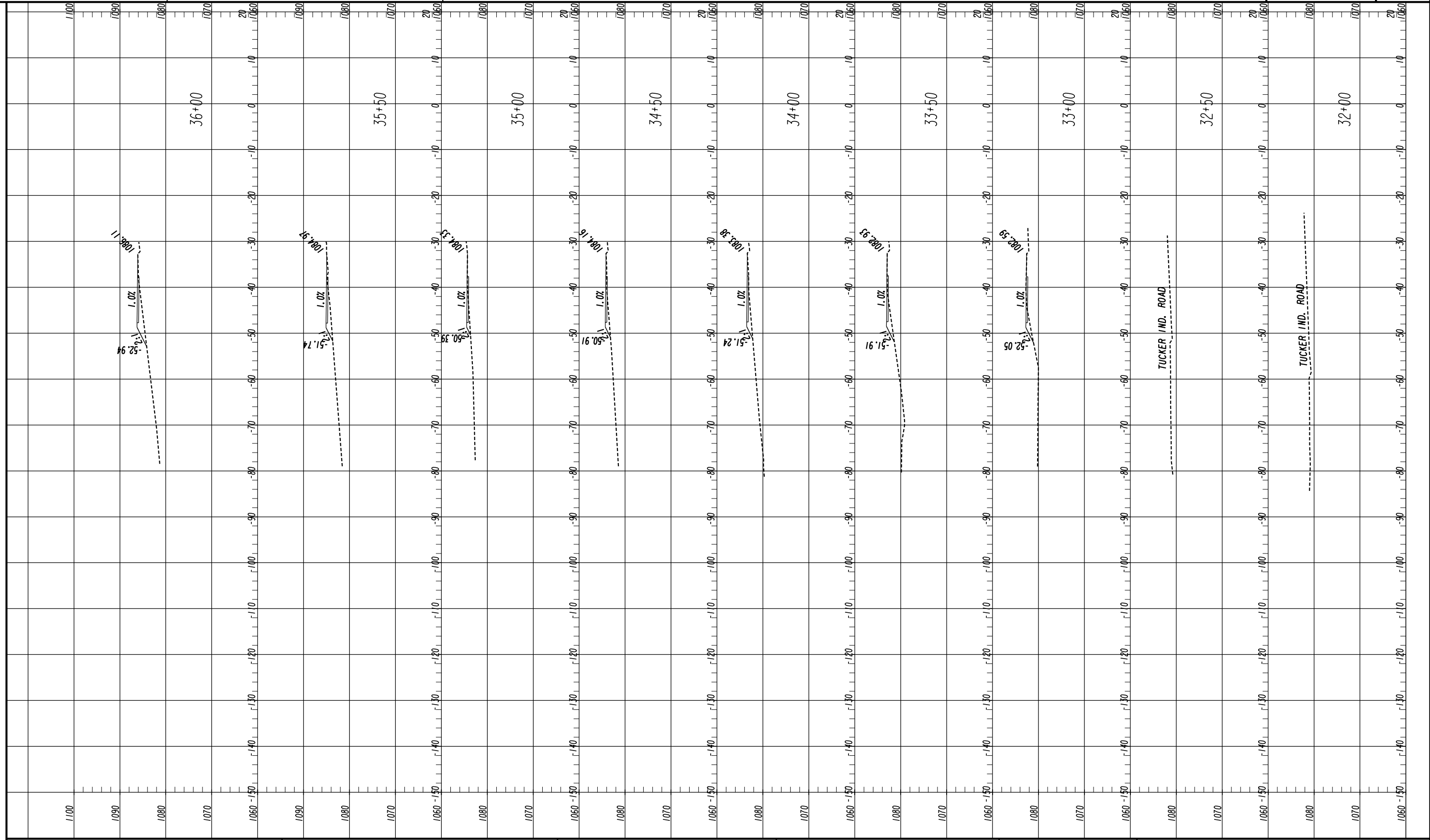
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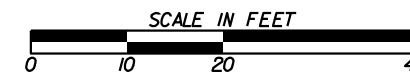
CROSS SECTIONS

HUGH HOWELL ROAD SIDEWALK
CITY OF TUCKER

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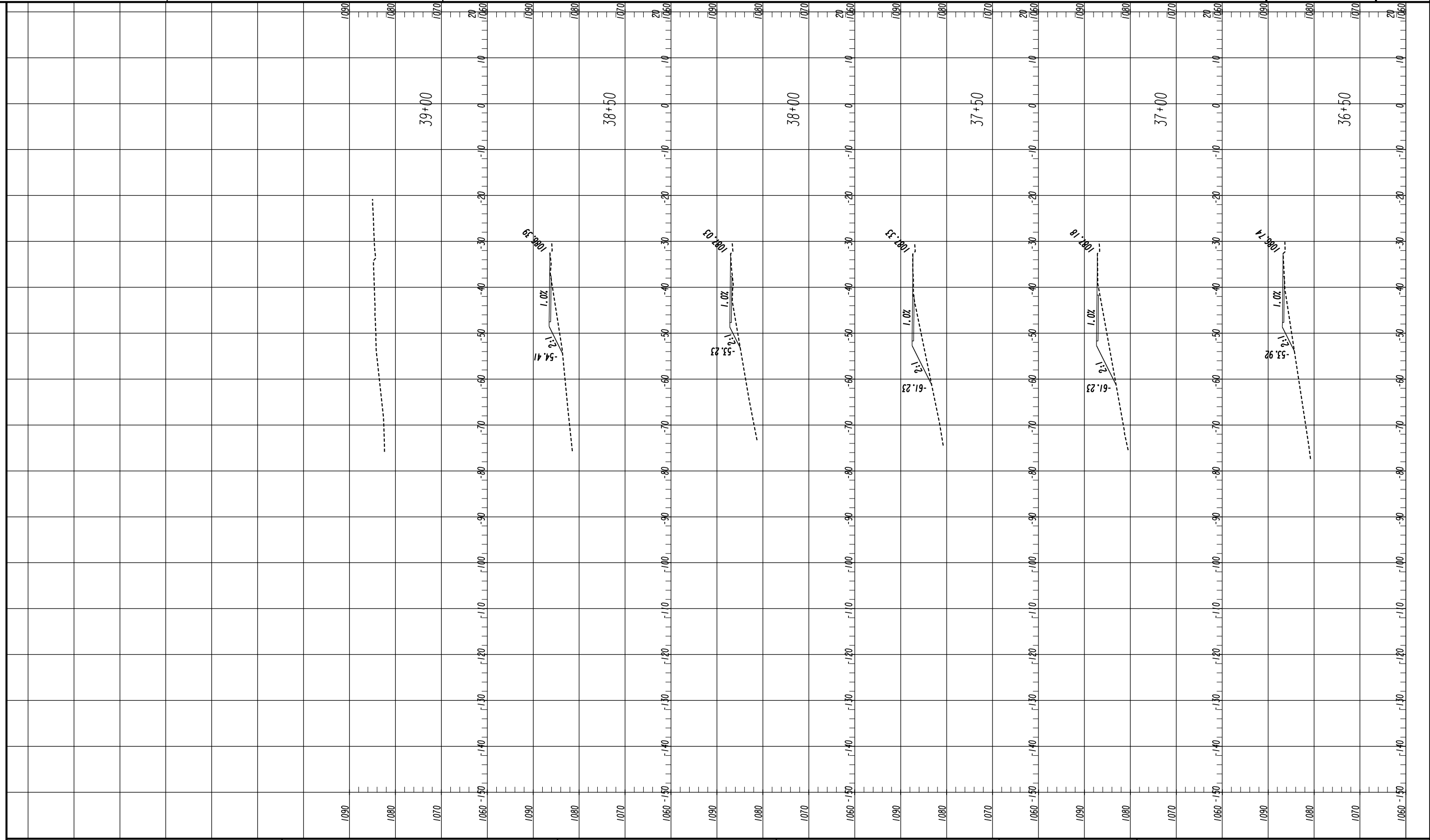
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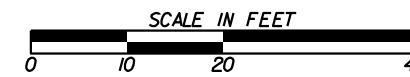
CROSS SECTIONS

HUGH HOWELL ROAD SIDEWALK
CITY OF TUCKER

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| BACKCHECKED: | DATE: | 23-0006 |
| CORRECTED: | DATE: | |
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REVISION DATES

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CROSS SECTIONS

HUGH HOWELL ROAD SIDEWALK
CITY OF TUCKER

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| BACKCHECKED: | DATE: | 23-0007 |
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| VERIFIED: | DATE: | |

UTILITY LINECODES

UTILITY SYMBOLS

| | EXISTING | TO BE REMOVED | PROPOSED | TYPE OF UTILITY |
|-------------|----------|---------------|----------|--------------------------------------|
| OVERHEAD | | | | ELECTRIC |
| | | | | ELECTRIC/TELECOMMUNICATIONS |
| | | | | ELECTRIC/CABLE TV |
| | | | | ELECTRIC/TELECOMMUNICATIONS/CABLE TV |
| | | | | GUY WIRE |
| | | | | TELECOMMUNICATIONS |
| UNDERGROUND | | | | TELECOMMUNICATIONS/CABLE TV |
| | | | | CABLE TV |

| | EXISTING | TO BE REMOVED | PROPOSED | TYPE OF UTILITY |
|-------------|----------|---------------|----------|---|
| UNDERGROUND | | | | ELECTRIC |
| | | | | TELECOMMUNICATIONS |
| | | | | CABLE TV |
| | | | | WATER |
| | | | | WATER FOR LABELED PIPE SIZES |
| | | | | NON-POTABLE WATER |
| | | | | NON-POTABLE WATER FOR LABELED PIPE SIZES |
| | | | | STEAM |
| | | | | STEAM FOR LABELED PIPE SIZES |
| | | | | SANITARY SEWER WITH FLOW DIRECTION |
| | | | | SANITARY SEWER WITH FLOW DIRECTION FOR LABELED PIPE SIZES |
| | | | | SANITARY SEWER FORCE MAIN WITH FLOW DIRECTION |
| | | | | GAS |
| | | | | GAS FOR LABELED PIPE SIZES |
| | | | | PETROLEUM |
| | | | | PETROLEUM FOR LABELED PIPE SIZES |

| EXISTING | PROPOSED | TEMPORARY | EXISTING | PROPOSED | TEMPORARY |
|----------|----------|-----------|----------|----------|-----------|
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| UTILITY OWNER | SERVICE | SHEET NUMBERS |
|-------------------|----------------------|--------------------|
| ATLANTA GAS LIGHT | GAS | 24-0001 TO 24-0006 |
| AT&T/D | TELECOM DISTRIBUTION | 24-0001 TO 24-0006 |
| AT&T/D | TELECOM TRANSMISSION | 24-0001 TO 24-0006 |
| COMCAST | TELECOM | 24-0001 TO 24-0006 |
| DEKALB COUNTY | TRAFFIC CONTROL | 24-0001 TO 24-0006 |
| GDOT | WATER & SEWER | 24-0001 TO 24-0006 |
| GEORGIA POWER | TRAFFIC - TELECOM | 24-0001 TO 24-0006 |
| LUMEN | TELECOM | 24-0001 TO 24-0006 |
| VERIZON | TELECOM | 24-0001 TO 24-0006 |
| UNITI FIBER | TELECOM | 24-0001 TO 24-0006 |
| ZAYO | TELECOM | 24-0001 TO 24-0006 |

| | |
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| | BEGIN LIMIT OF ACCESS.....BLA |
| | END LIMIT OF ACCESS.....ELA |
| | REQ'D LIMIT OF ACCESS |
| | REQ'D LIMIT OF ACCESS & R/W |
| | ORANGE BARRIER FENCE |
| | ESA - ENV. SENSITIVE AREA |
| | (SEE ERIT TABLE) |

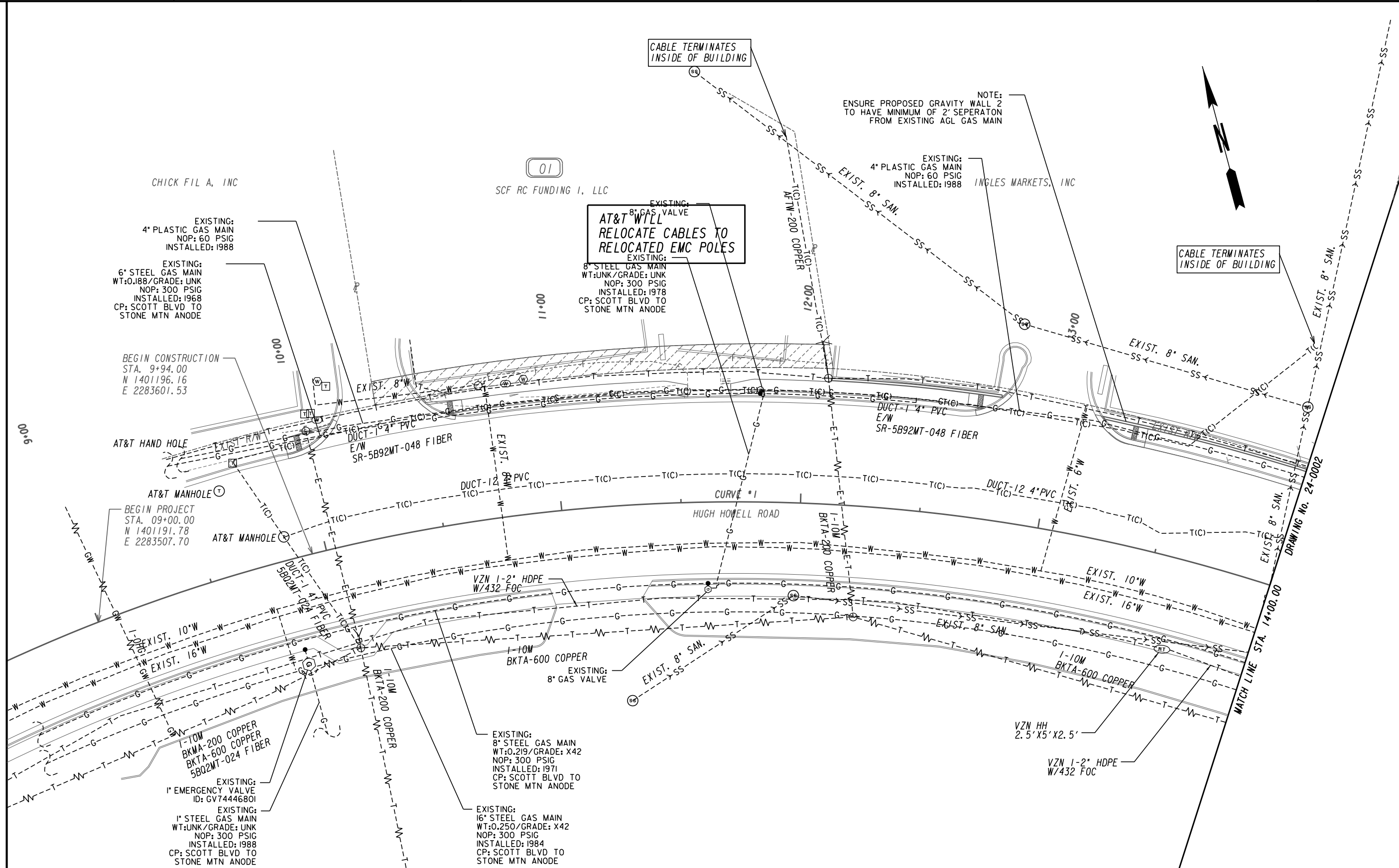
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| | BEGIN LIMIT OF ACCESS.....BLA |
| | END LIMIT OF ACCESS.....ELA |
| | REQ'D LIMIT OF ACCESS |
| | REQ'D LIMIT OF ACCESS & R/W |
| | ORANGE BARRIER FENCE |
| | ESA - ENV. SENSITIVE AREA |
| | (SEE ERIT TABLE) |

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| REVISION DATES | |
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UTILITY LEGEND
HUGH HOWELL ROAD SIDEWALK
CITY OF TUCKER

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| CHECKED: | DATE: | DRAWING No. |
| BACKCHECKED: | DATE: | 24-0000 |
| CORRECTED: | DATE: | |
| VERIFIED: | DATE: | |



CABLE TERMINATES INSIDE OF BUILDING

NOTE: ENSURE PROPOSED GRAVITY WALL 2 TO HAVE MINIMUM OF 2' SEPERATON FROM EXISTING AGL GAS MAIN

CHICK FIL A, INC

SCF RC FUNDING I, LLC

INGLES MARKETS, INC

AT&T WILL RELOCATE CABLES TO RELOCATED EMC POLES

CABLE TERMINATES INSIDE OF BUILDING

EXISTING: 4\"/>

EXISTING: 6\"/>

BEGIN CONSTRUCTION STA. 9+94.00 N 1401196.16 E 2283601.53

AT&T HAND HOLE

BEGIN PROJECT STA. 09+00.00 N 1401191.78 E 2283507.70

EXISTING: 8\"/>

EXISTING: 4\"/>

AT&T MANHOLE

DUCT-12\"/>

HUGH HOWELL ROAD

DUCT-12\"/>

EXIST. 10\"/>

EXIST. 16\"/>

VZN 1-2\"/>

BKTA-600 COPPER

EXIST. 8\"/>

EXISTING: 8\"/>

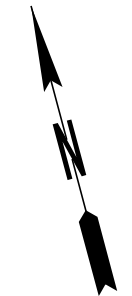
EXISTING: 16\"/>

EXISTING: 1\"/>

EXISTING: 1\"/>

VZN HH 2.5' X 5' X 2.5'

VZN 1-2\"/>



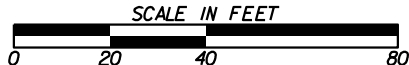
| | |
|----------------------|--|
| -----e----- | BEGIN LIMIT OF ACCESS.....BLA |
| -----f----- | END LIMIT OF ACCESS.....ELA |
| -C-F- | REQ'D LIMIT OF ACCESS |
| [Hatched Box] | REQ'D LIMIT OF ACCESS & R/W |
| [Diagonal Lines Box] | ORANGE BARRIER FENCE |
| [Cross-hatched Box] | ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE) |

| | |
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| [Symbol] | [Symbol] |
| [Symbol] | [Symbol] |
| [Symbol] | [Symbol] |
| [Symbol] | [Symbol] |

Keck+Wood

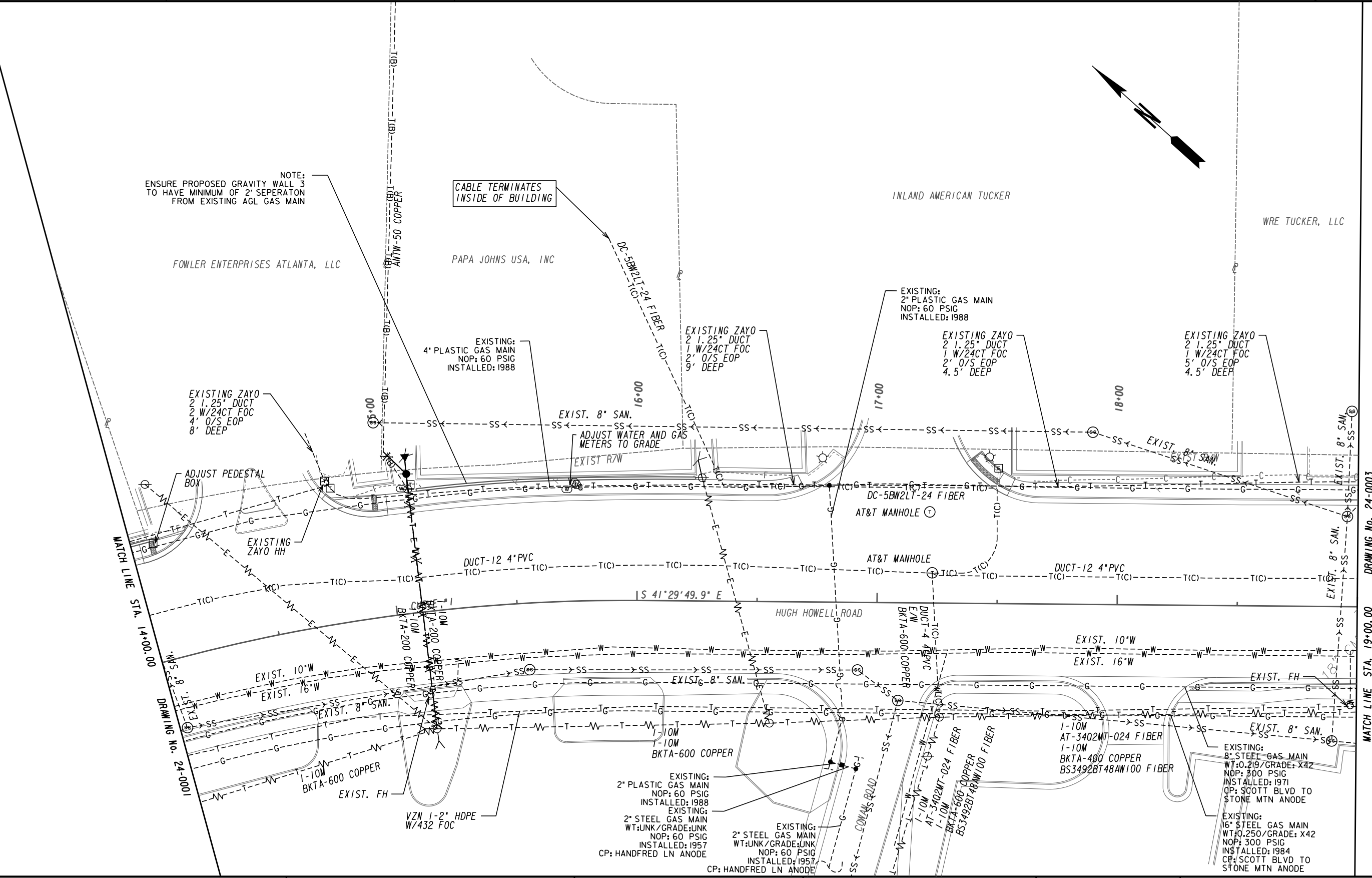
COLLABORATION BY DESIGN

3090 Premiere Parkway, Suite 200
Duluth, GA 30097
(678) 417-4000 keckwood.com



| REVISION DATES | |
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| UTILITY PLANS | | | |
| HUGH HOWELL ROAD SIDEWALK | | | |
| CITY OF TUCKER | | | |
| CHECKED: | DATE: | DRAWING No. | |
| BACKCHECKED: | DATE: | 24-0001 | |
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NOTE:
 ENSURE PROPOSED GRAVITY WALL 3
 TO HAVE MINIMUM OF 2' SEPERATON
 FROM EXISTING AGL GAS MAIN

CABLE TERMINATES
 INSIDE OF BUILDING

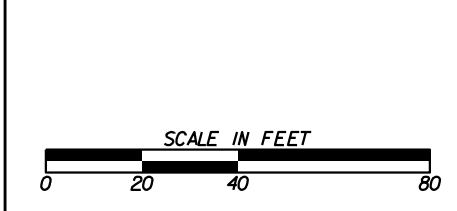
PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

-----e-----
 ---c---f---
 [Hatched Box]
 [Hatched Box]
 [Hatched Box]

BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 REQ'D LIMIT OF ACCESS
 REQ'D LIMIT OF ACCESS & R/W
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)

Keck+Wood
 COLLABORATION BY DESIGN

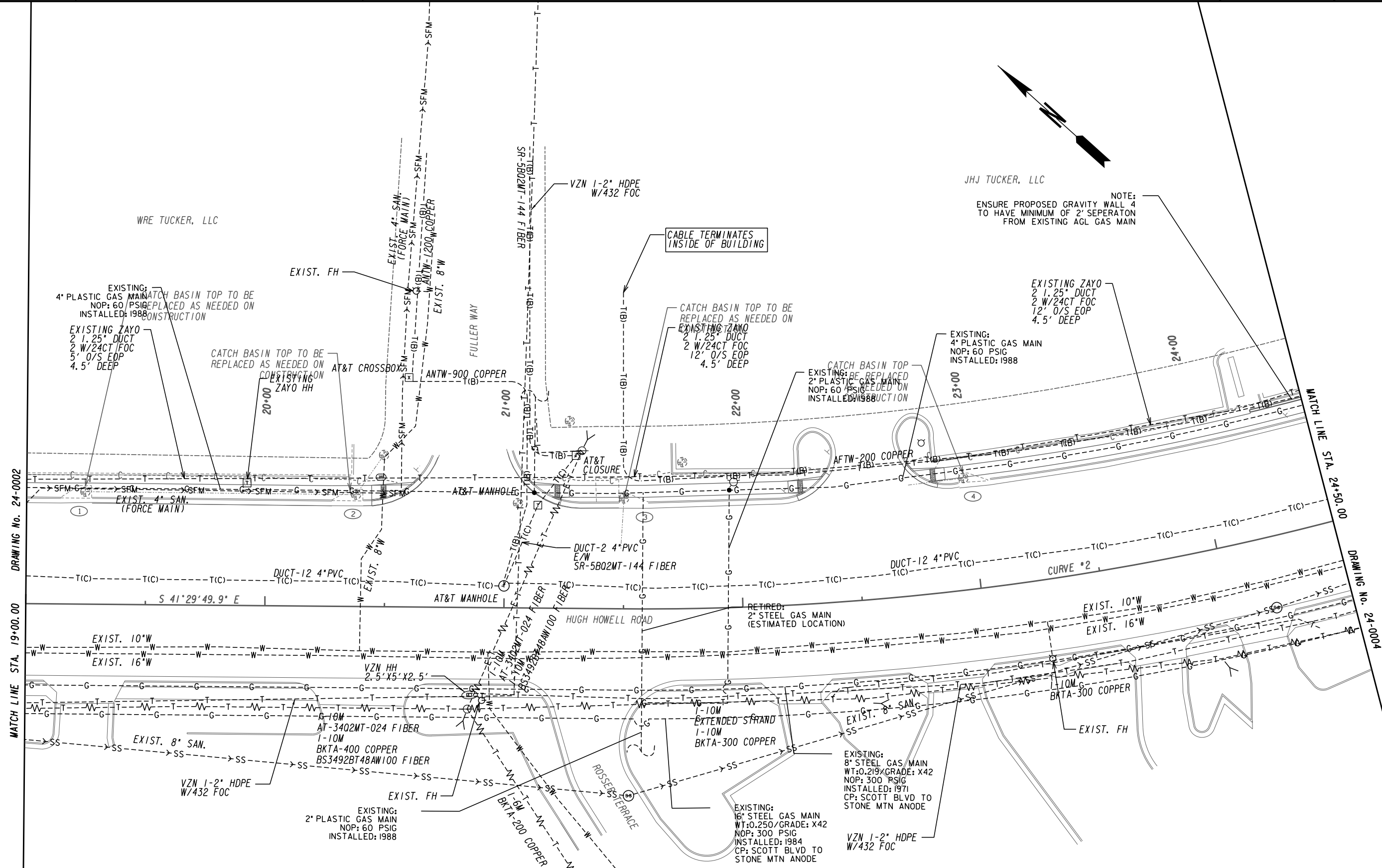
3090 Premiere Parkway, Suite 200
 Duluth, GA 30097
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UTILITY PLANS
 HUGH HOWELL ROAD SIDEWALK
 CITY OF TUCKER

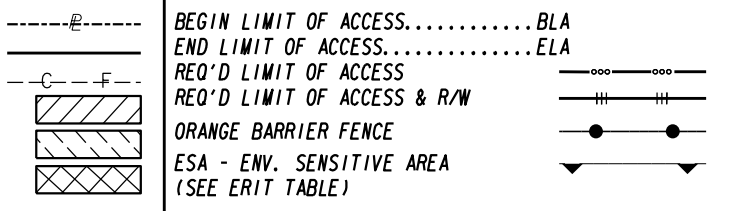
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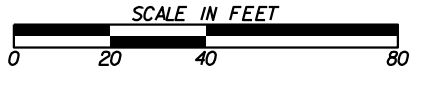
DRAWING No. 24-0002
MATCH LINE STA. 19+00.00

MATCH LINE STA. 24+50.00
DRAWING No. 24-0004

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR
& MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES



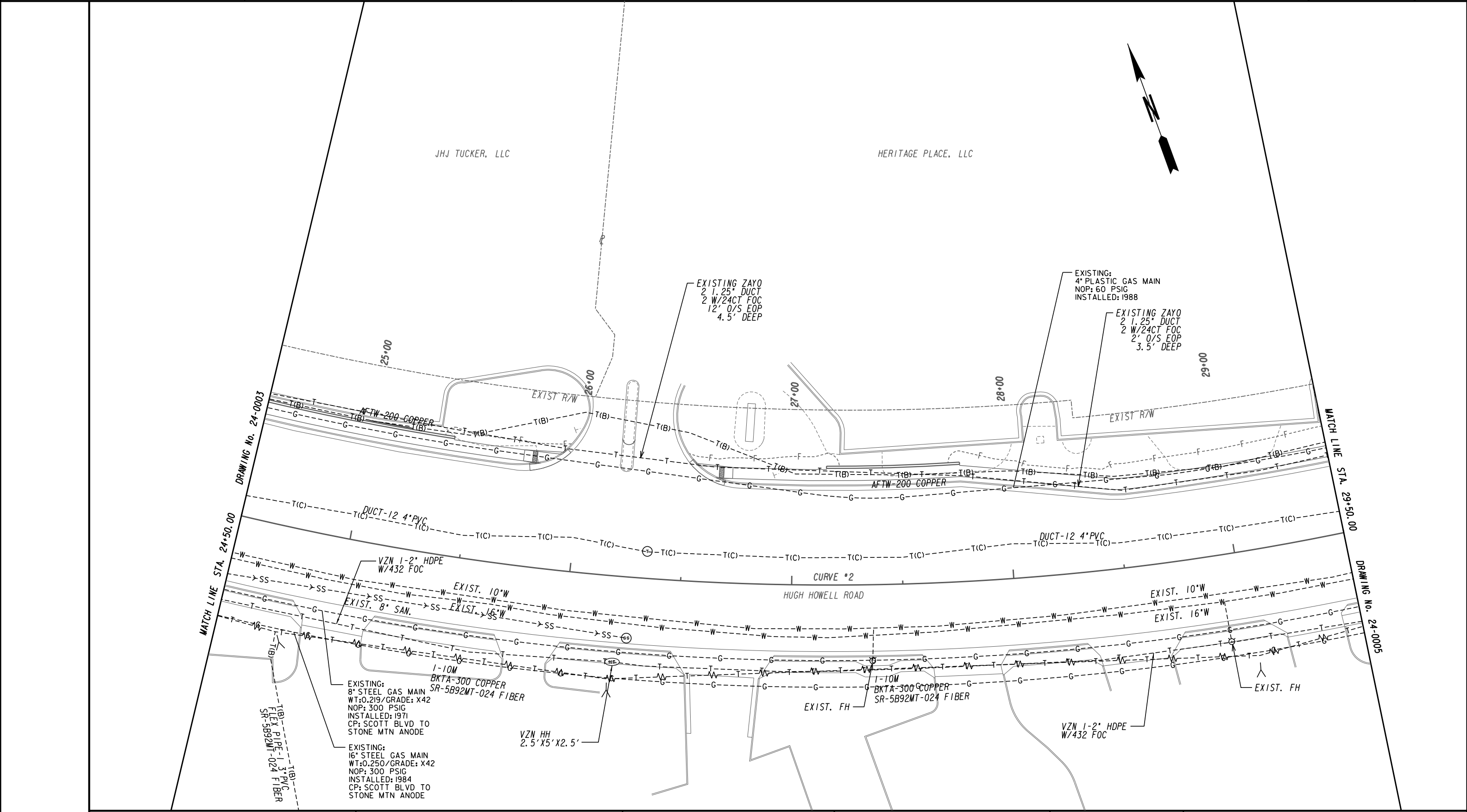
Keck+Wood
COLLABORATION BY DESIGN
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| REVISION DATES | |
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UTILITY PLANS
HUGH HOWELL ROAD SIDEWALK
CITY OF TUCKER

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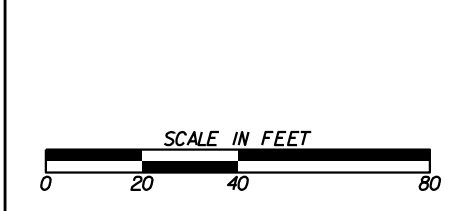


PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

-----e-----
 - - - - - C - - - - - F - - - - -
 [Hatched Box] [Hatched Box]
 [Hatched Box] [Hatched Box]
 [Hatched Box] [Hatched Box]

BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 REQ'D LIMIT OF ACCESS
 REQ'D LIMIT OF ACCESS & R/W
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)

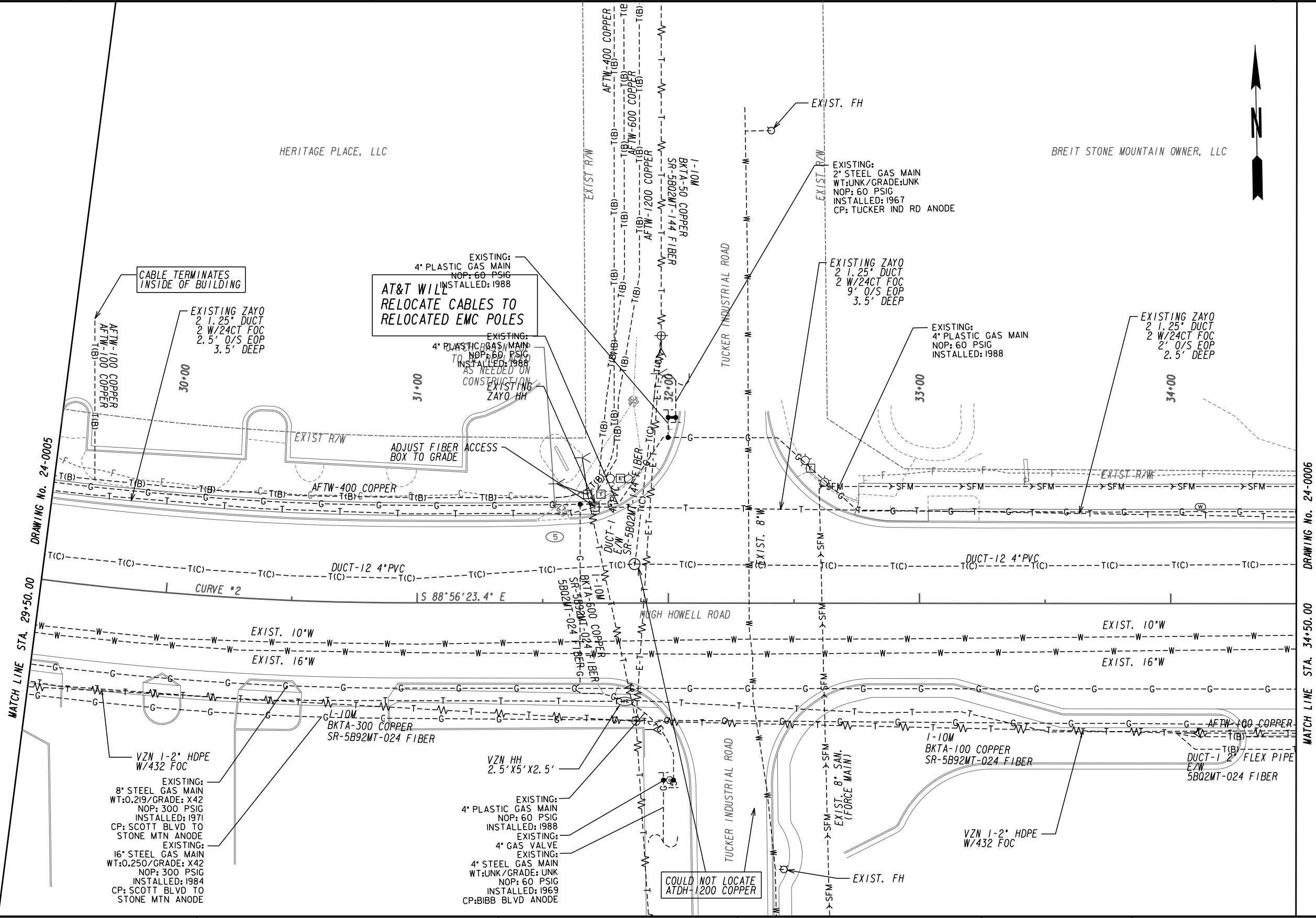
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| REVISION DATES | |
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UTILITY PLANS
 HUGH HOWELL ROAD SIDEWALK
 CITY OF TUCKER

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| CHECKED: | DATE: | DRAWING No. |
| BACKCHECKED: | DATE: | 24-0004 |
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DRAWING No. 24-0005
MATCH LINE STA. 29+50.00

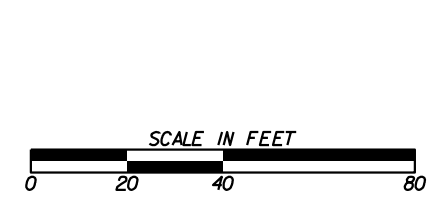
DRAWING No. 24-0006
MATCH LINE STA. 34+50.00

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| PROPERTY AND EXISTING R/W LINE | -----e----- |
| REQUIRED R/W LINE | -----f----- |
| CONSTRUCTION LIMITS | -----g----- |
| EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES | -----h----- |
| EASEMENT FOR CONSTR OF SLOPES | -----i----- |
| EASEMENT FOR CONSTR OF DRIVES | -----j----- |

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|--|-------------|
| BEGIN LIMIT OF ACCESS.....BLA | -----k----- |
| END LIMIT OF ACCESS.....ELA | -----l----- |
| REQ'D LIMIT OF ACCESS | -----m----- |
| REQ'D LIMIT OF ACCESS & R/W | -----n----- |
| ORANGE BARRIER FENCE | -----o----- |
| ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE) | -----p----- |

Keck+Wood
COLLABORATION BY DESIGN

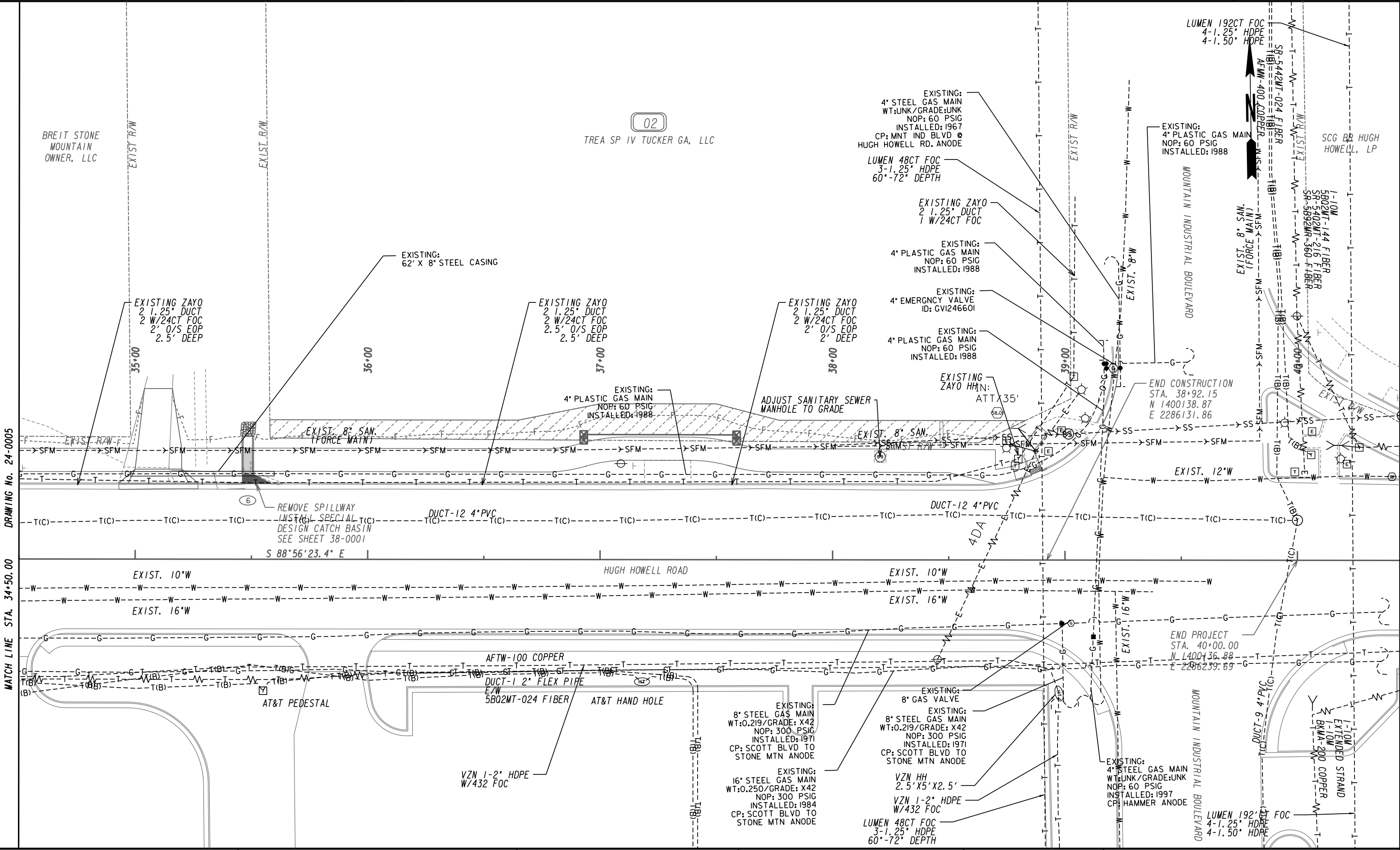
3090 Premiere Parkway, Suite 200
Duluth, GA 30097
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| REVISION DATES | |
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UTILITY PLANS
HUGH HOWELL ROAD SIDEWALK
CITY OF TUCKER

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| BACKCHECKED: | DATE: | 24-0005 |
| CORRECTED: | DATE: | |
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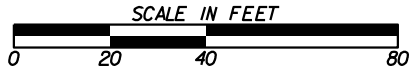
DRAWING No. 24-0005
MATCH LINE STA. 34+50.00

PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

-----e-----
 ---C---F---
 [Hatched Box]
 [Hatched Box]
 [Hatched Box]
 [Hatched Box]

BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 REQ'D LIMIT OF ACCESS
 REQ'D LIMIT OF ACCESS & R/W
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)

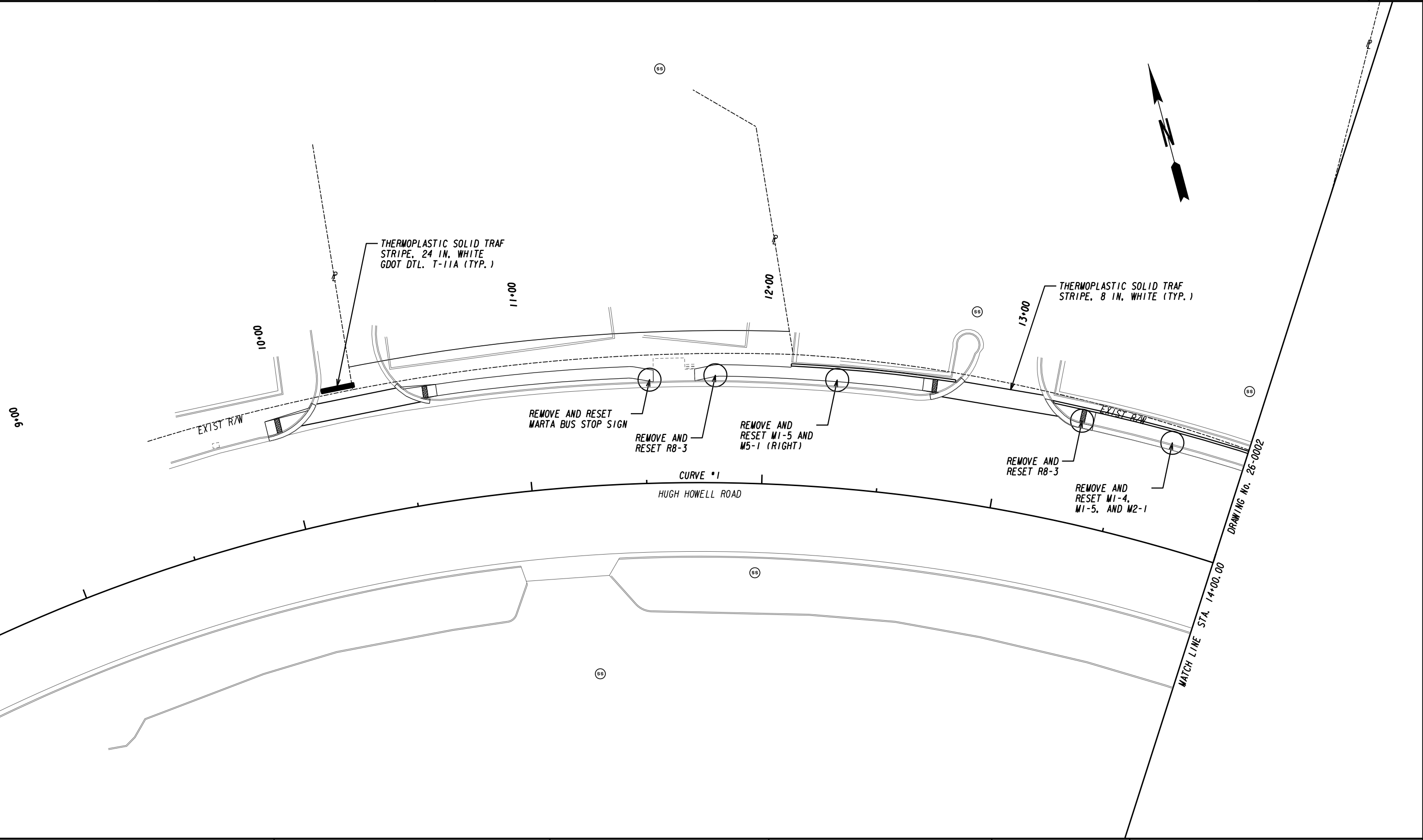
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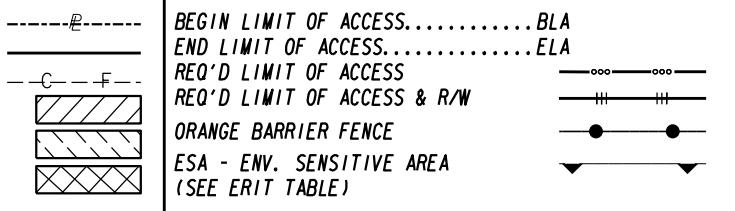
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UTILITY PLANS
 HUGH HOWELL ROAD SIDEWALK
 CITY OF TUCKER

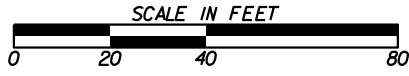
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| CHECKED: | DATE: | DRAWING No. 24-0006 |
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PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES



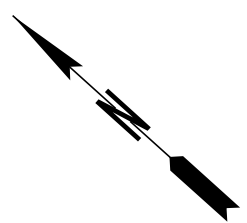
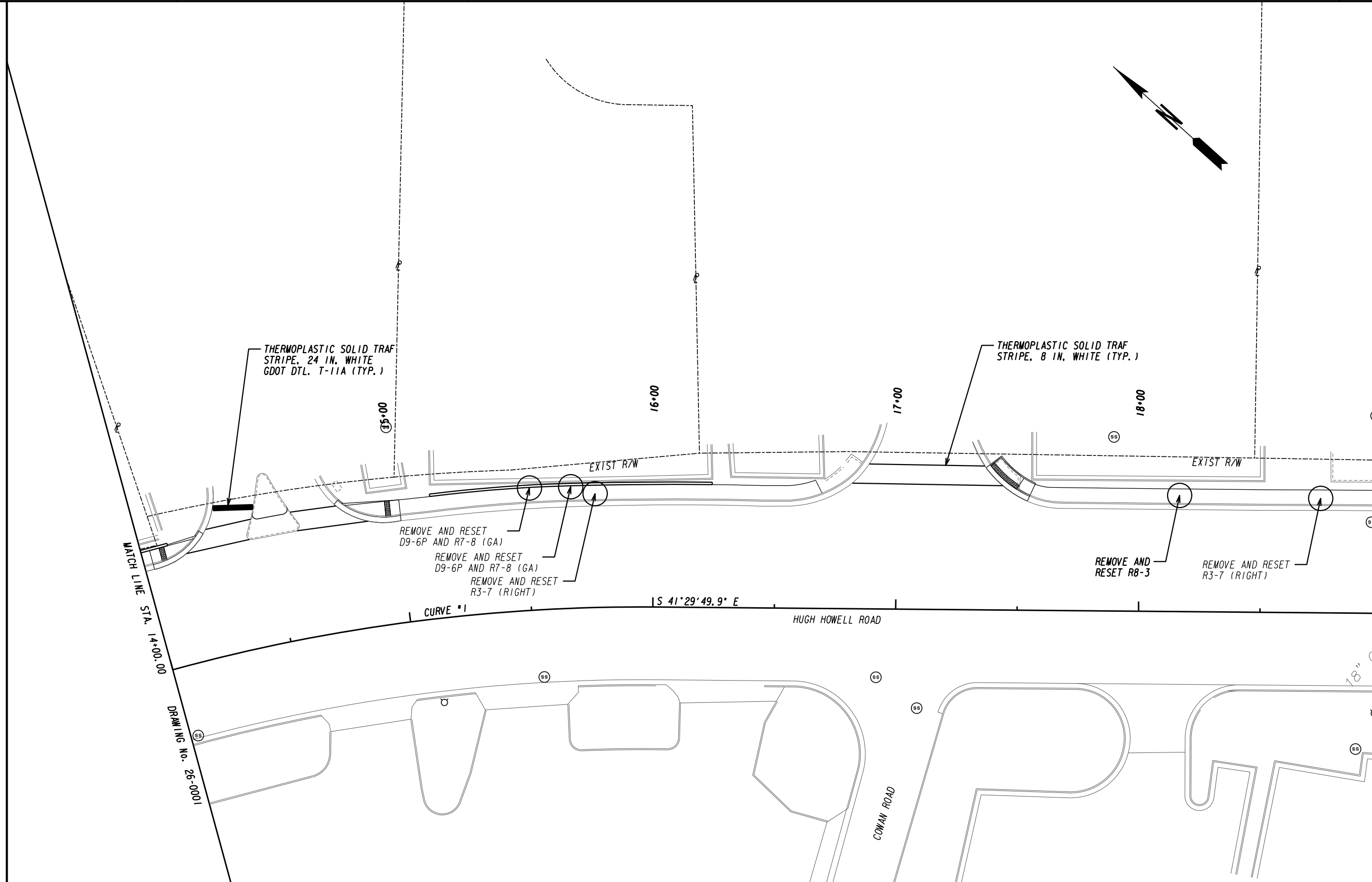
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| REVISION DATES | |
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SIGNING AND MARKING PLANS
 HUGH HOWELL ROAD SIDEWALK
 CITY OF TUCKER

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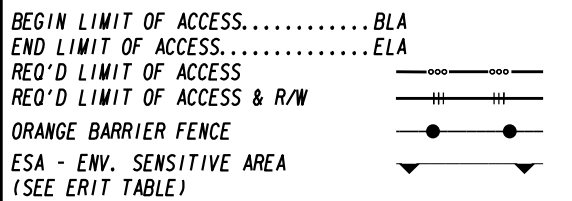
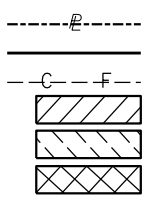
MATCH LINE STA. 14+00.00

DRAWING No. 26-0001

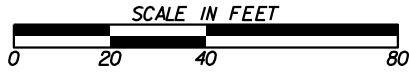
DRAWING No. 26-0003

MATCH LINE STA. 19+00.00

PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES



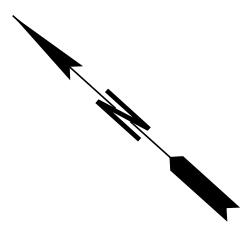
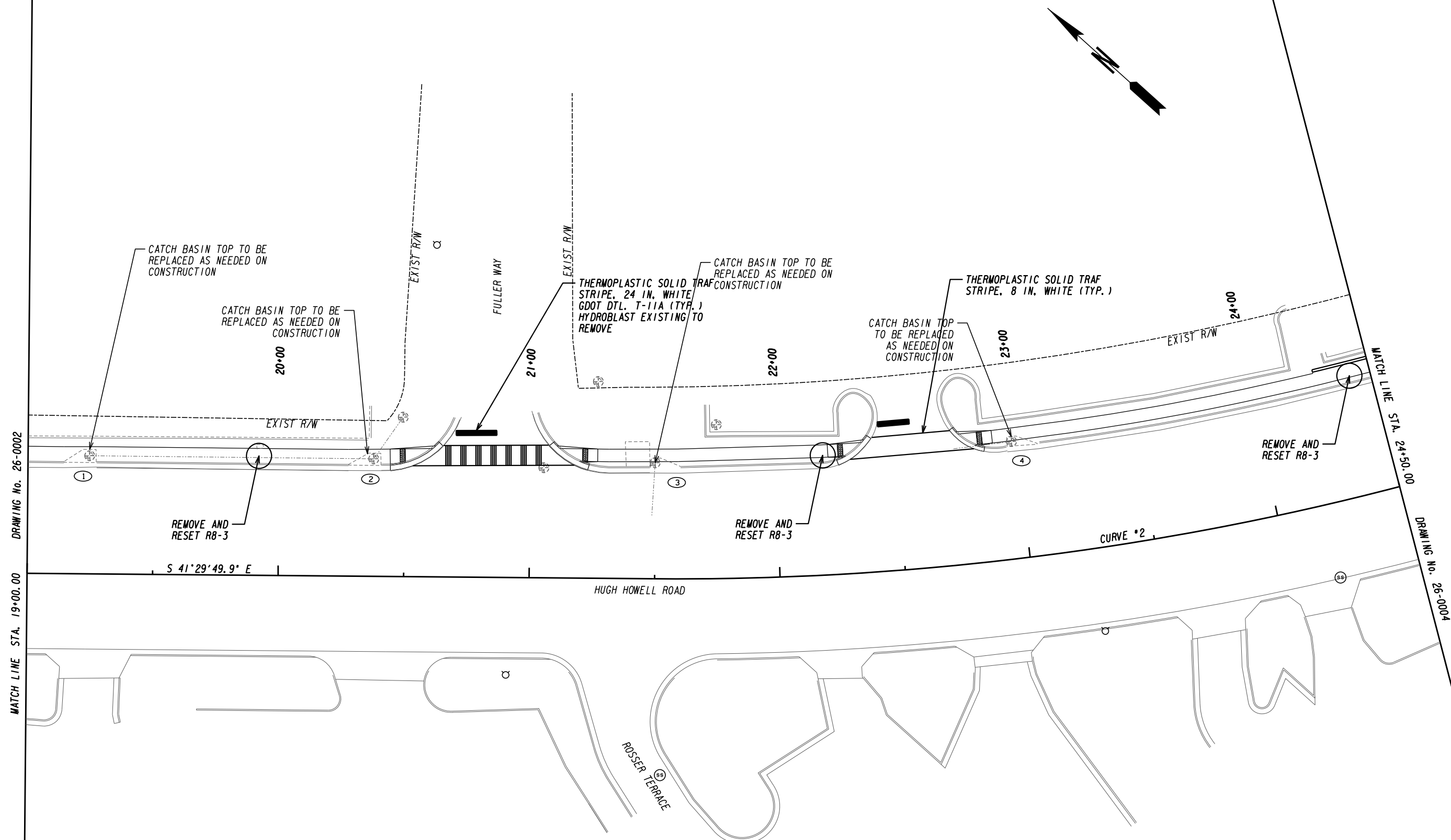
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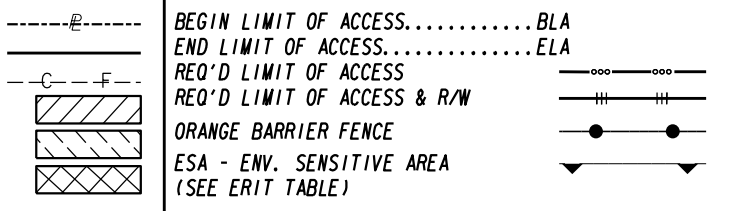
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SIGNING AND MARKING PLANS
 HUGH HOWELL ROAD SIDEWALK
 CITY OF TUCKER

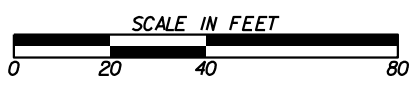
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PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES



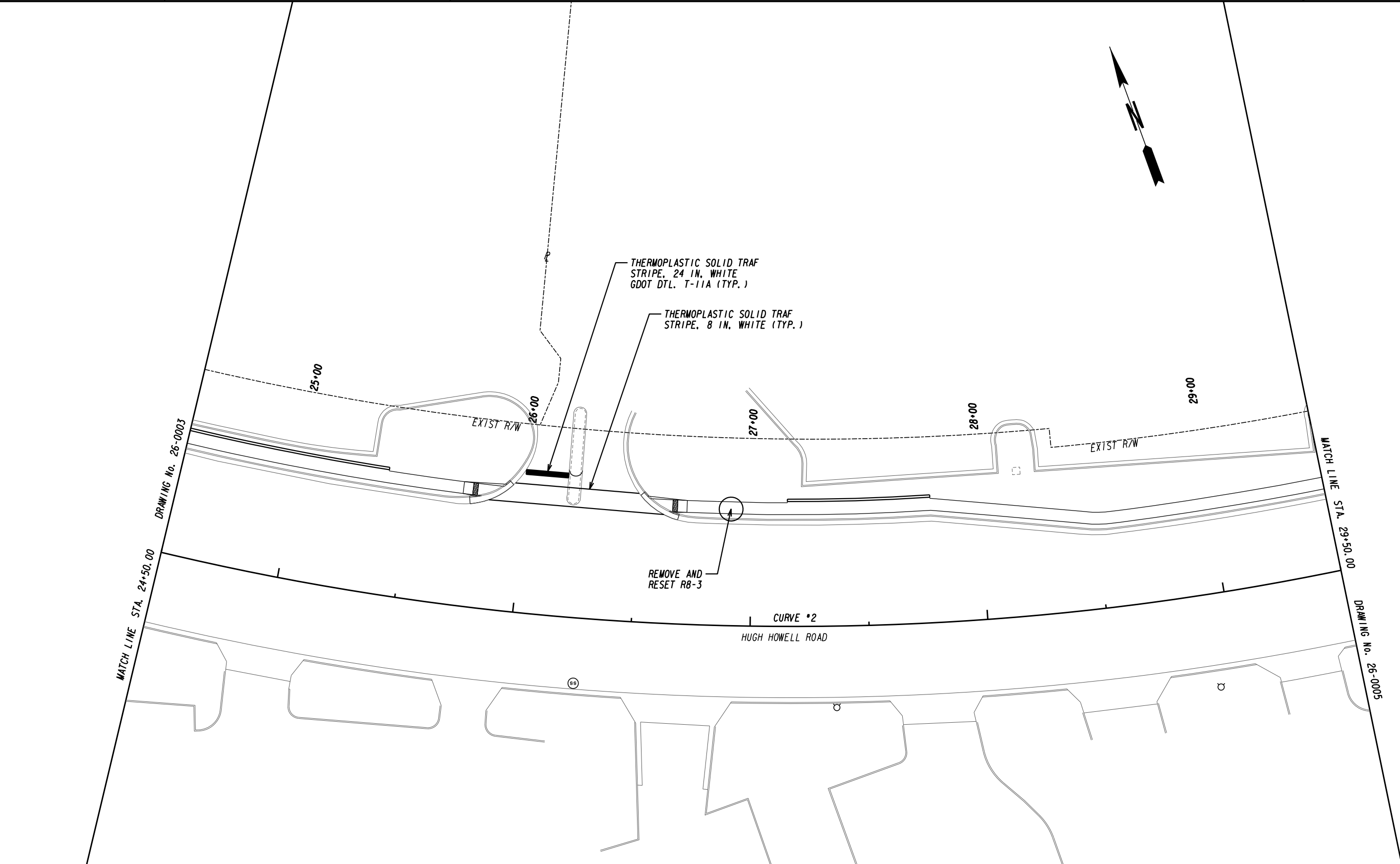
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| REVISION DATES | |
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SIGNING AND MARKING PLANS
 HUGH HOWELL ROAD SIDEWALK
 CITY OF TUCKER

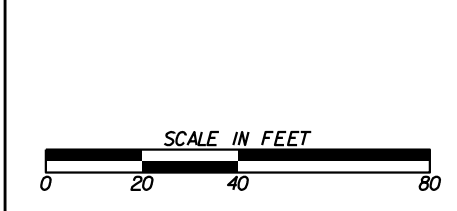
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| PROPERTY AND EXISTING R/W LINE | -----e----- |
| REQUIRED R/W LINE | ----- |
| CONSTRUCTION LIMITS | ---C---F--- |
| EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES | [Hatched Box] |
| EASEMENT FOR CONSTR OF SLOPES | [Diagonal Hatched Box] |
| EASEMENT FOR CONSTR OF DRIVES | [Cross-hatched Box] |

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| BEGIN LIMIT OF ACCESS.....BLA | ---o---o--- |
| END LIMIT OF ACCESS.....ELA | ---o---o--- |
| REQ'D LIMIT OF ACCESS | --- --- --- |
| REQ'D LIMIT OF ACCESS & R/W | --- --- --- |
| ORANGE BARRIER FENCE | ---●---●--- |
| ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE) | ---▲---▲--- |

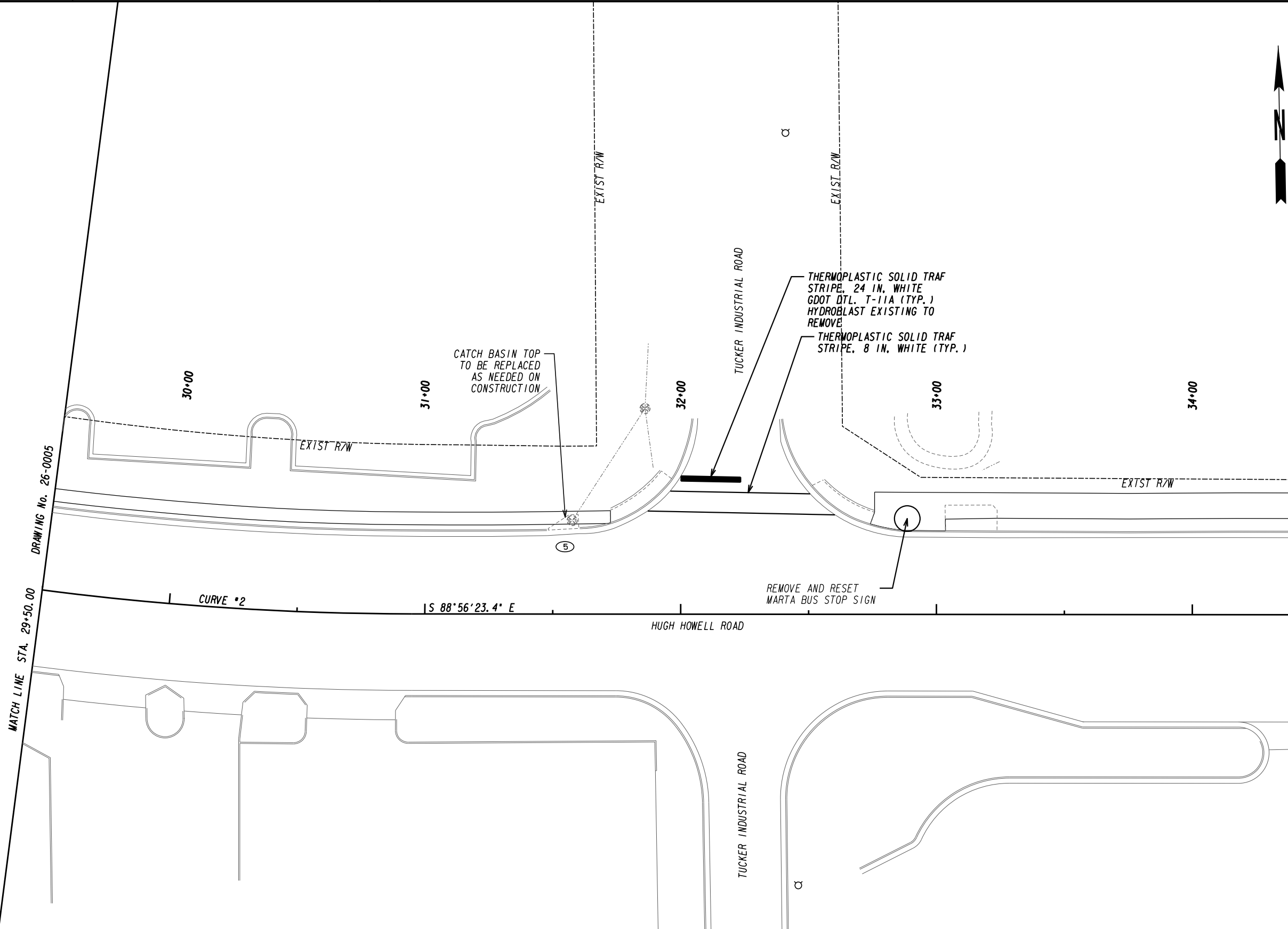
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| REVISION DATES | |
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SIGNING AND MARKING PLANS
HUGH HOWELL ROAD SIDEWALK
CITY OF TUCKER

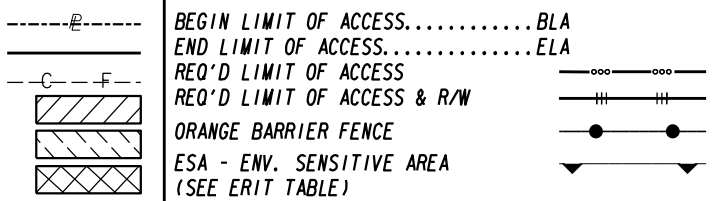
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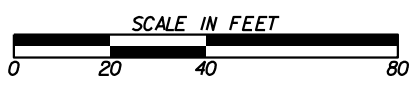
MATCH LINE STA. 29+50.00 DRAWING No. 26-0005

MATCH LINE STA. 34+50.00 DRAWING No. 26-0006

PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES



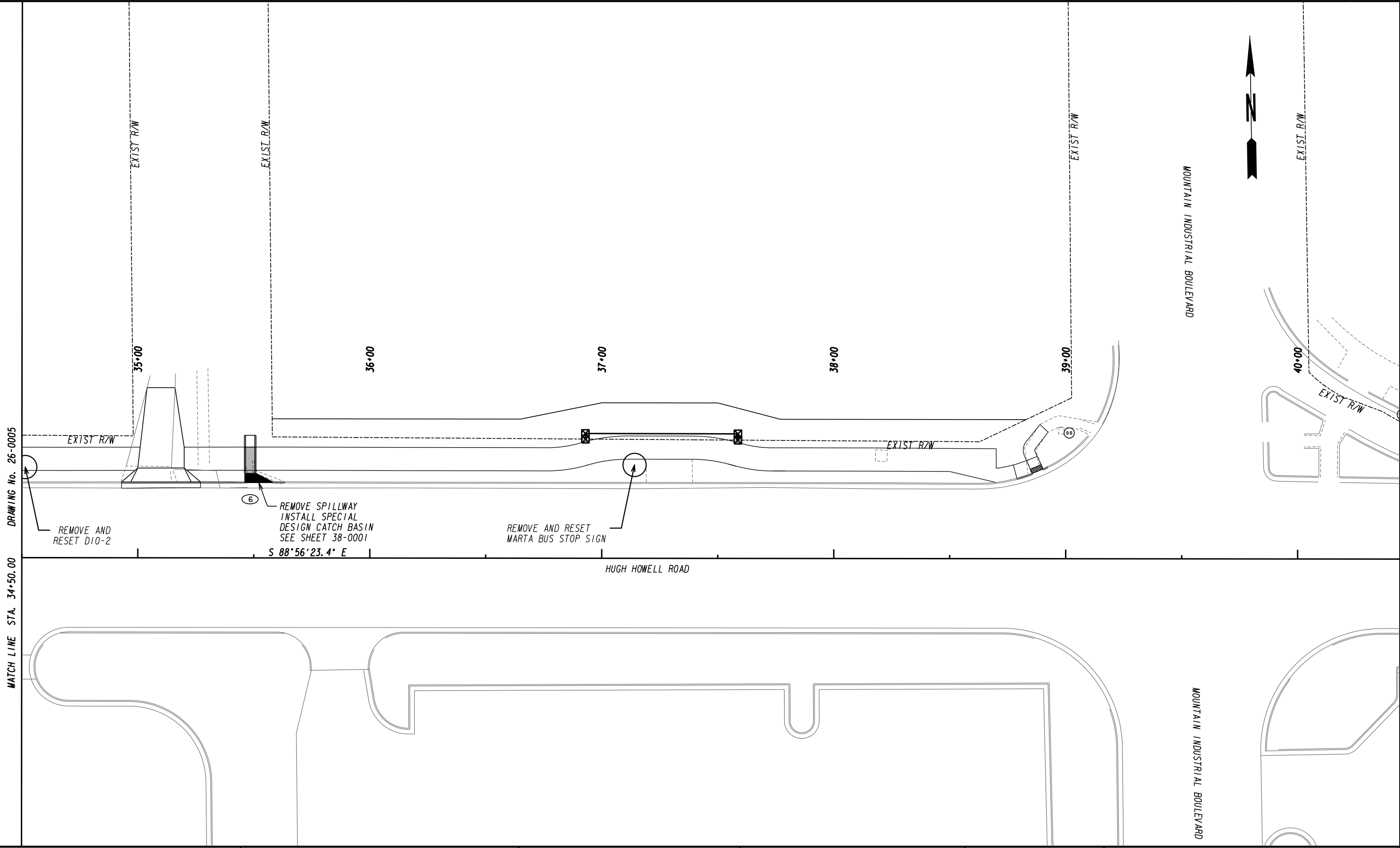
Keck+Wood
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| REVISION DATES | |
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SIGNING AND MARKING PLANS
 HUGH HOWELL ROAD SIDEWALK
 CITY OF TUCKER

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DRAWING No. 26-0005
MATCH LINE STA. 34+50.00

REMOVE AND RESET D10-2

6 REMOVE SPILLWAY
INSTALL SPECIAL
DESIGN CATCH BASIN
SEE SHEET 38-0001
S 88° 56' 23.4" E

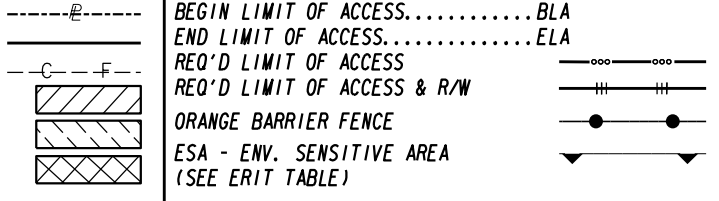
REMOVE AND RESET
MARTA BUS STOP SIGN

HUGH HOWELL ROAD

MOUNTAIN INDUSTRIAL BOULEVARD

MOUNTAIN INDUSTRIAL BOULEVARD

PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES



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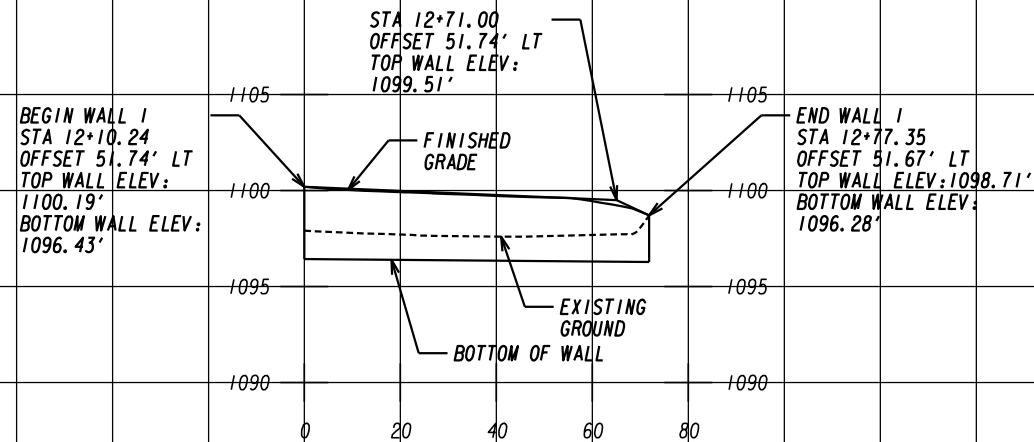


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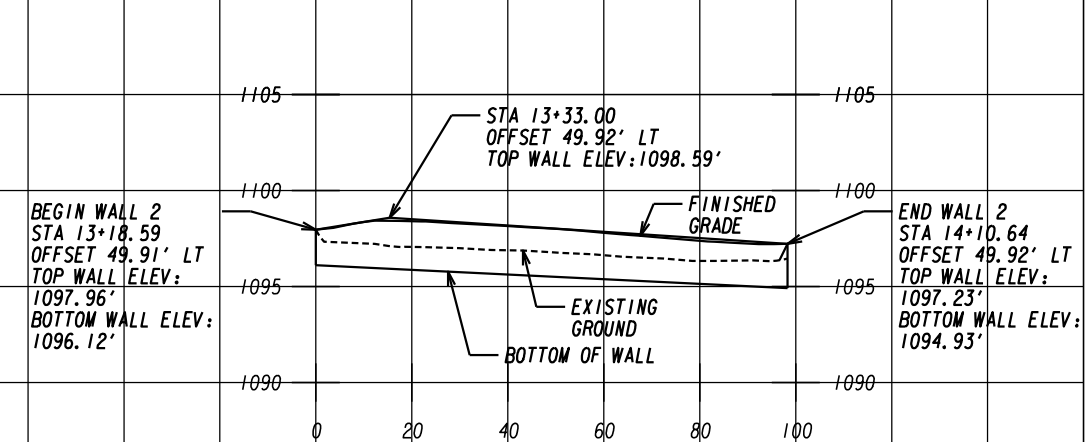
SIGNING AND MARKING PLANS
 HUGH HOWELL ROAD SIDEWALK
 CITY OF TUCKER

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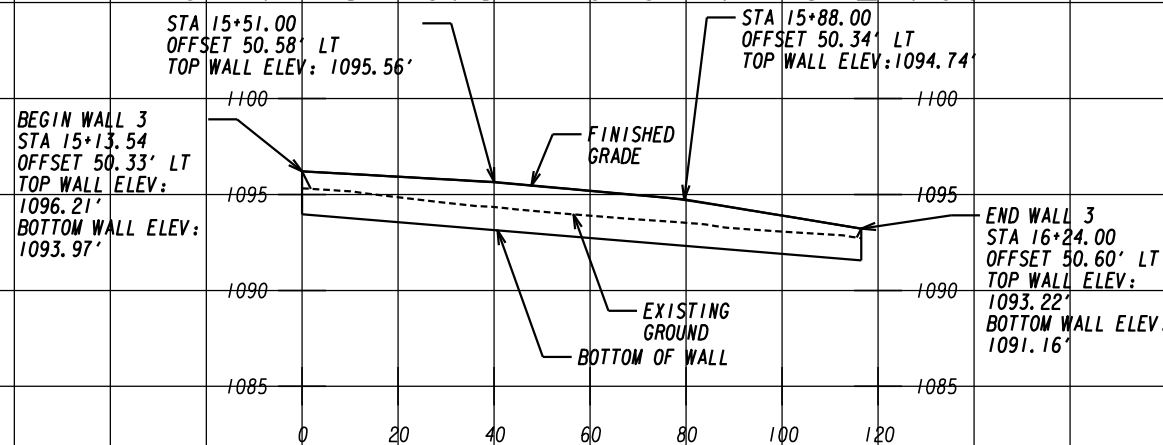
WALL NO. 1 HUGH HOWELL ROAD STA. 12+10.24 TO STA. 12+77.35



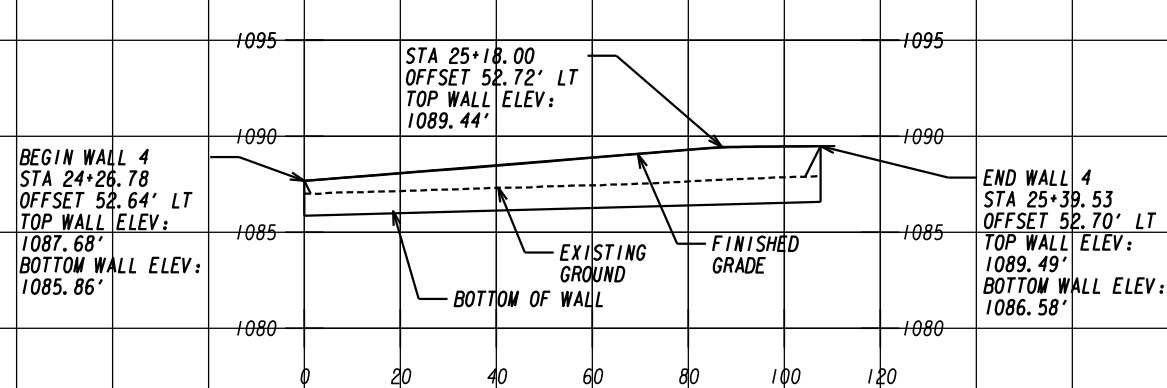
WALL NO. 2 HUGH HOWELL ROAD STA. 13+18.59 TO STA. 14+10.64



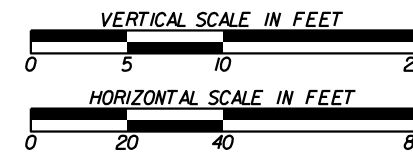
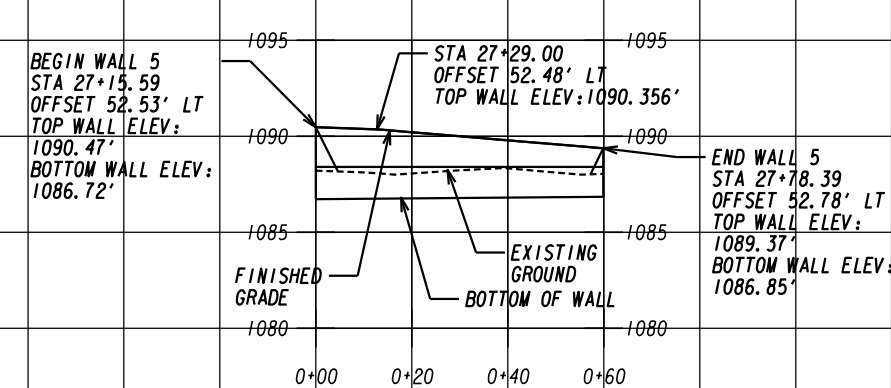
WALL NO. 3 HUGH HOWELL ROAD STA. 15+13.54 TO STA. 16+24.00



WALL NO. 4 HUGH HOWELL ROAD STA. 24+31.78 TO STA. 25+34.53



WALL NO. 5 HUGH HOWELL ROAD STA. 27+20.60 TO STA. 27+78.39

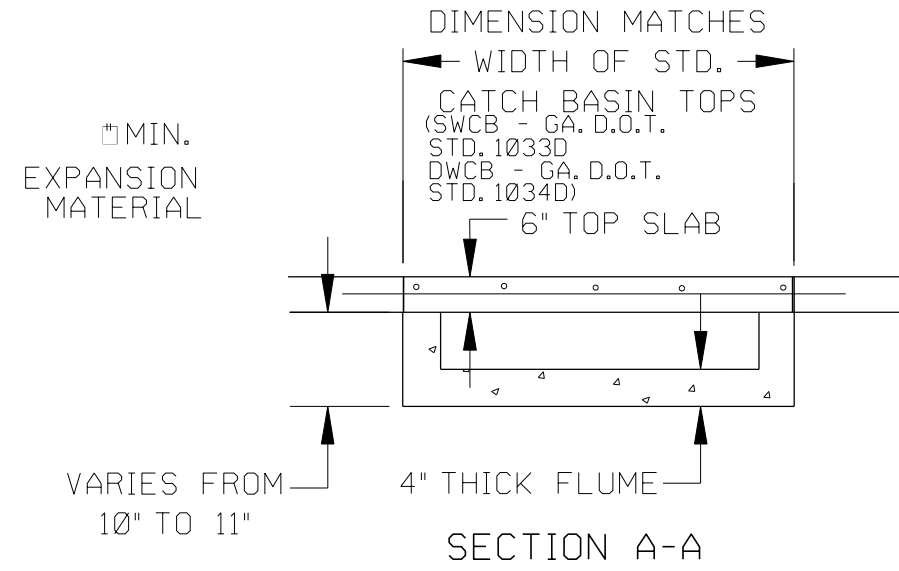
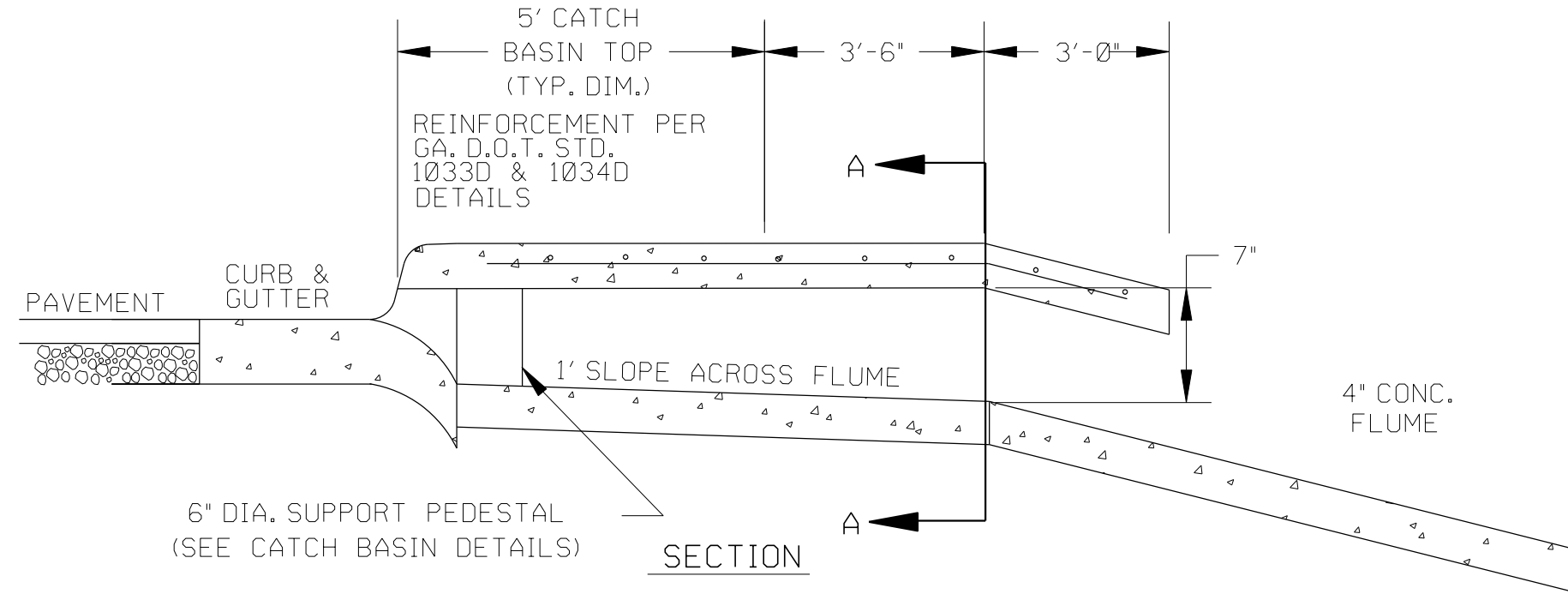


REVISION DATES

RETAINING WALL ENVELOPES HUGH HOWELL ROAD SIDEWALK CITY OF TUCKER

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DRAWING No.
31-0001



DETAIL DIMENSIONS PER GA. D.O.T. STD. 1033D & 1034D CATCH BASIN THROATS

SPECIAL CATCH BASIN DETAIL

N.T.S.

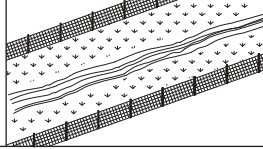

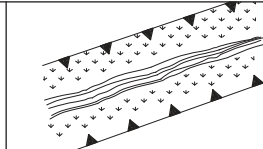

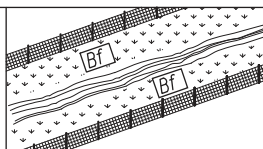

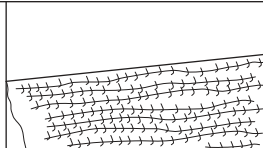

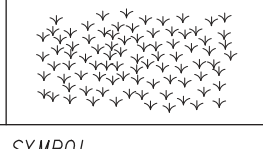



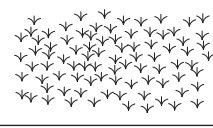

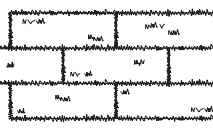
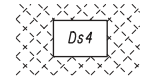
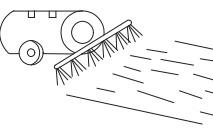

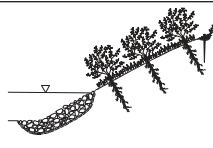

REVISION DATES

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SPECIAL CONSTRUCTION DETAIL
HUGH HOWELL ROAD SIDEWALK
CITY OF TUCKER

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| CHECKED: | DATE: | DRAWING No. |
| BACKCHECKED: | DATE: | 38-0001 |
| CORRECTED: | DATE: | |
| VERIFIED: | DATE: | |

| CODE | PRACTICE STD OR DETAIL SPEC. SECT. | DETAIL | DESCRIPTION |
|------|---------------------------------------|--|---|
| | ORANGE BARRIER FENCE |  | ORANGE BARRIER FENCE DELINEATES ENVIRONMENTALLY SENSITIVE AREAS WHERE THE CONTRACTOR SHALL NOT CLEAR, GRUB, OR PLACE CONSTRUCTION MATERIALS OR EQUIPMENT WITHIN THIS AREA. |
| | | LINE CODE  | |
| ESA | ENVIRONMENTALLY SENSITIVE AREA |  | AN ENVIRONMENTALLY SENSITIVE AREA (ESA) CONTAINS RESOURCES THAT ARE ENVIRONMENTALLY, CULTURALLY, OR HISTORICALLY SENSITIVE. ESAs INCLUDE, BUT ARE NOT LIMITED TO: STATE WATER BUFFERS, HISTORIC SITES, ARCHAEOLOGICAL SITES, AND PROTECTED ANIMAL AND PLANT SPECIES HABITATS. IF WORK IS AUTHORIZED IN THIS AREA, THE WORK MUST BE PERFORMED IN ACCORDANCE WITH SECTION 107 AND ANY OTHER APPLICABLE SPECIAL PROVISIONS AND APPLICABLE PLAN NOTES. |
| | | LINE CODE  | |
| | | ESA-25' (OR 50') STREAM BUFFER, ETC. | |
| Bf | BUFFER ZONE |  | A STRIP OF UNDISTURBED ORIGINAL VEGETATION, ENHANCED OR RESTORED EXISTING VEGETATION, OR THE RE-ESTABLISHMENT OF VEGETATION SURROUNDING AN AREA OF DISTURBANCE OR BORDERING STREAMS, PONDS, WETLANDS, LAKES, AND COASTAL WATERS. WHEN NECESSARY, BUFFER ZONES ARE TO BE PROTECTED BY ORANGE BARRIER FENCE. |
| | | SYMBOL  | |
| Ds1 | MULCH SECTION 163 |  | THIS IS AN APPLICATION OF STRAW MULCH USED TO REDUCE SOIL EROSION AND STABILIZE THE SOIL. IT IS USED TO CONTROL EROSION IN AREAS WHERE PERMANENT VEGETATION IS OUT OF SEASON OR TO TEMPORARILY STABILIZE AREAS PRIOR TO FINAL GRADING. MULCHING REQUIREMENTS ARE ADDRESSED BY STANDARD SPECIFICATIONS AND/OR THE PROJECT ENGINEER. THE BMP SYMBOL FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54. |
| | | SYMBOL  | |
| Ds2 | TEMPORARY GRASSING SECTION 163,700 |  | THE SOWING OF A QUICK GROWING SPECIES OF GRASS SUITABLE TO THE AREA AND SEASON. IT IS TYPICALLY USED TO CONTROL EROSION IN AREAS LONGER THAN MULCHING IS EXPECTED TO LAST. TEMPORARY GRASSING SHOULD BE USED ON ALL PROJECTS ACCORDING TO THE STANDARD SPECIFICATIONS. THE BMP SYMBOL FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54. |
| | | SYMBOL  | |

| CODE | PRACTICE STD OR DETAIL SPEC. SECT. | DETAIL | DESCRIPTION |
|-------|---|--|---|
| Ds3 | PERMANENT GRASSING SECTION 700 |  | THE SOWING OF PERMANENT VEGETATION, SUCH AS GRASS, SUITABLE TO THE AREA AND SEASON. PERMANENT VEGETATION SHALL BE USED ON ALL PROJECTS ACCORDING TO THE STANDARD SPECIFICATION. THE BMP SYMBOL FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54. |
| | | SYMBOL  | |
| Ds4 | SODDING CONSTRUCTION DETAIL D-54 SECTION 700, 890 |  | THE INSTALLATION OF A SPECIES OF GRASS SODDING SUITABLE TO THE AREA AND SEASON TO PROVIDE IMMEDIATE PERMANENT VEGETATION. SODDING MAY BE SHOWN FOR HIGHLY SENSITIVE AREAS, TO IMPROVE AESTHETICS, OR FOR SPECIAL PLANTING REQUIREMENTS ON THE BASIS OF ENVIRONMENTAL COMMITMENTS OR LANDSCAPING REQUIREMENTS. THE BMP PATTERN FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54. |
| | | PATTERN  | |
| Fl-Co | FLOCCULANTS COAGULANTS SECTION 163,700, 895 |  | FLOCCULANTS AND COAGULANTS ARE USED TO SETTLE SUSPENDED SEDIMENT, HEAVY METALS, AND HYDROCARBONS (TSS) IN SLOW MOVING RUNOFF FROM CONSTRUCTION SITES FOR WATER CLARIFICATION. ANIONIC POLYACRYLAMIDES (PAM) MAY BE USED IN CONJUNCTION WITH BMPs WITHIN CHANNELS UPSTREAM OF A POST-CONSTRUCTION POND, TEMPORARY SEDIMENT BASIN, OR TEMPORARY SEDIMENT TRAP. FLOCCULANTS SHALL NOT BE USED DOWNSTREAM OF AFOREMENTIONED BMPs! FLOCCULANTS/COAGULANTS ARE TO BE SHOWN ON PLANS WITH APPLICABLE BMP IF NEEDED. PAYMENT FOR PAM AS A FLOCCULANT WILL BE INCLUDED IN THE PRICE FOR THE INSTALLATION AND/OR MAINTENANCE OF THE BMP IT IS USED IN CONJUNCTION WITH. NO SEPARATE PAYMENT WILL BE MADE. |
| | | SYMBOL  | |
| | | POLYACRYLAMIDE | |
| Sb | STREAMBANK STABILIZATION SECTION 702 |  | STREAMBANK STABILIZATION IS THE USE OF READILY AVAILABLE NATIVE PLANT MATERIALS TO MAINTAIN AND ENHANCE STREAMBANKS, OR TO PREVENT, OR RESTORE AND REPAIR SMALL STREAMBANK EROSION PROBLEMS. STREAMBANK STABILIZATION AREAS SHOULD BE SHOWN ON THE PLANS WHEN APPLICABLE TO THE PROJECT. REFER TO THE PROJECT'S STREAM AND STREAM BUFFER MITIGATION PLANS FOR PLANT SPECIES, LOCATIONS, AND OTHER PLANTING DETAILS. |
| | | PATTERN  | |

NOTE:

- DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
- FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, 'MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA'.

REVISION DATES

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| 3/2/2017 | | |
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EROSION CONTROL LEGEND
 UNIFORM CODE SHEET
 SHEET 1 OF 7

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|----------------------|----------------|-------------|
| CHECKED: D. EAGLETON | DATE: 01/01/16 | DRAWING No. |
| BACKCHECKED: | DATE: | |
| CORRECTED: | DATE: | |
| VERIFIED: | DATE: | 52-0001 |

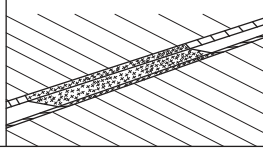
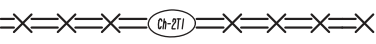
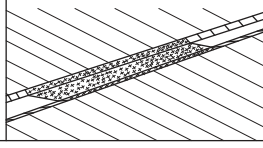

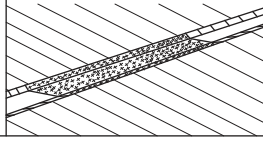
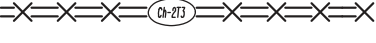
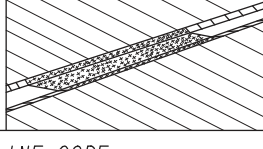
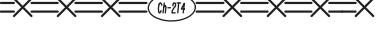
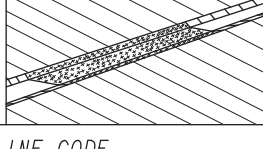
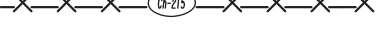
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|-------|---|-------------|---|
| Ss | SLOPE STABILIZATION CONSTRUCTION DETAIL D-35 SECTION 716 | | SLOPE STABILIZATION (EROSION CONTROL MATTING) IS A PROTECTIVE COVERING USED TO PREVENT EROSION AND ESTABLISH TEMPORARY OR PERMANENT VEGETATION ON STEEP SLOPES, SHORE LINES, OR CHANNELS. SLOPE STABILIZATION MAY BE A ROLLED EROSION CONTROL PRODUCT (RECP) OR A HYDRAULIC EROSION CONTROL PRODUCT (HECP). SLOPE STABILIZATION SHALL BE USED ON ALL CUT OR FILL SLOPES OF 2.5:1 OR STEEPER AND WITHIN 50 FEET OF ALL CROSS DRAINS AND CULVERTS. NOTE: ONLY COCONUT FIBER BLANKET OR WOOD FIBER BLANKET SHALL BE USED AS SLOPE STABILIZATION WITHIN BUFFERED AREAS. |
| | | PATTERN | |
| Toc | TACKIFIERS SECTION 163, 700, 895 | | TACKIFIERS HYDRATE IN WATER AND READILY BLEND WITH OTHER SLURRY MATERIALS AND ARE USED TO TIE-DOWN FOR SOIL, COMPOST, SEED, STRAW, HAY OR MULCH. TACKIFIERS REQUIREMENTS, SUCH AS ANIONIC POLYACRYLAMIDES (PAM) ARE ADDRESSED BY STANDARD SPECIFICATIONS AND ARE NOT TYPICALLY SHOWN ON THE PLANS. PAM IS TYPICALLY USED BY THE CONTRACTOR FOR TEMPORARY OR PERMANENT GRASSING. REFER TO THE LATEST EDITION OF THE 'MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA' FOR CRITERIA. |
| | | SYMBOL | |
| Cd-F | FABRIC CHECK DAM CONSTRUCTION DETAIL D-24D SECTION 171 | | A CHECK DAM COMPOSED OF SYNTHETIC FIBER FABRIC, WIRE REINFORCED, POST, OVERFLOW WEIR, AND TURF REINFORCEMENT MATTING (TRM) SPLASHPAD PLACED IN DITCHES IN A SPECIAL CONFIGURATION WHICH CONTROLS ENERGY DISSIPATION AND FILTRATION OF STORM WATER. SEE CONSTRUCTION DETAIL D-24D FOR ADDITIONAL INFORMATION AND SPACING REQUIREMENTS. THIS ITEM IS SUITABLE FOR USE IN ROADSIDE DITCHES THAT ARE PART OF INFRASTRUCTURE CONSTRUCTION PROJECTS AND WITHIN THE CLEAR ZONE. IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OR WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM DISCHARGE POINT. |
| | | SYMBOL | |
| Cd-Fs | COMPOST FILTER SOCK CHECK DAM CONSTRUCTION DETAIL D-52 SECTION 163 | | A COMPOST FILTER SOCK CHECK DAM IS COMPOSED OF A PHOTODEGRADABLE OR BIODEGRADABLE KNITTED MESH MATERIAL CONTAINING A WEED FREE FILLER MATERIAL DERIVED FROM A WELL-DECOMPOSED SOURCE OF ORGANIC MATTER. THEY SHALL BE PROPERLY STAKED FOR DITCH APPLICATIONS. REFER TO THE LATEST EDITION OF THE 'MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA' FOR MATERIAL SPECIFICATIONS. IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OR WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM DISCHARGE POINT. |
| | | SYMBOL | |
| Cd-Hb | BALED STRAW CHECK DAM CONSTRUCTION DETAIL D-52 SECTION 163 | | A BALE STRAW CHECK DAM IS COMPOSED OF BALES PREFERABLY BOUND WITH WIRE OR NYLON INSTEAD OF TWINE. BALES SHOULD BE PLACED IN ROWS WITH BALE ENDS TIGHTLY ABUTTING ADJACENT BALES. THE DOWNSTREAM ROW OF BALES SHALL BE PLACED IN A TRENCH TO ALLOW THE TOP OF THE BALE'S LONG, WIDE SIDE TO BE LEVEL WITH THE GROUND AS A NON-ERODIBLE SPLASH PAD. PROPER STAKING IS ALSO REQUIRED FOR DITCH APPLICATIONS. IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OR WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM DISCHARGE POINT. |
| | | SYMBOL | |

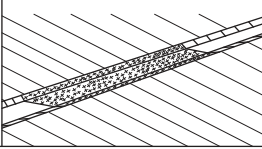

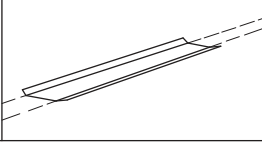
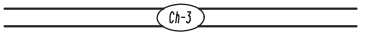
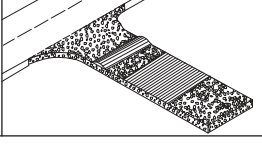

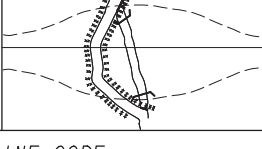
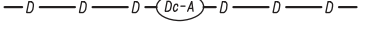
| CODE | PRACTICE STD OR DETAIL SPEC. SECT. | DETAIL | DESCRIPTION |
|--------|---|---------------|--|
| Cd-S | STONE CHECK DAM OR SANDBAG CHECK DAM CONSTRUCTION DETAIL D-56 SECTION 163, 603 | | STONE CHECK DAMS ARE CONSTRUCTED OF TYPE-3 RIP-RAP WITH GEOTEXTILE UNDERLINER. STONE CHECK DAMS ARE PREFERRED IN ROADWAY DITCHES OUTSIDE THE CLEAR ZONE. CONSIDERATION SHOULD BE GIVEN TO USING OTHER APPROPRIATE CHECK DAMS AND/OR BMPs WITHIN THE CLEAR ZONE. SANDBAG CHECK DAMS ARE RECOMMENDED IN CONCRETE LINED CHANNELS FOR TEMPORARY VELOCITY CONTROL ONLY. ENSURE DISCHARGE POINT IS PROPERLY STABILIZED AND INCLUDE APPROPRIATE BMPs FOR SEDIMENT STORAGE UPSTREAM AND/OR DOWNSTREAM OF CONCRETE LINED CHANNELS. IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OR WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM DISCHARGE POINT. |
| | | SYMBOL | |
| Ch-1 | VEGETATED CHANNEL STABILIZATION SECTION 700 | | A NEW OR EXISTING CHANNEL MAY BE LINED WITH PERMANENT VEGETATION ONLY FOR VELOCITIES UP TO 5.0 fps. THIS MEASURE SHALL BE DESIGNED IN ACCORDANCE WITH THE GDOT CHANNEL LINING DESIGN PROGRAM. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED. TYPICALLY NOT SHOWN IN PLANS. |
| | | LINE CODE | |
| Ch-2R1 | CHANNEL STABILIZATION RIP-RAP, TYPE 1 CONSTRUCTION DETAIL D-49 SECTION 603 | | THIS ITEM CONSISTS OF LINING A CHANNEL WITH TYPE 1 RIP-RAP 24" THICK (UNLESS SPECIFIED OTHERWISE) PLACED ON TOP OF A GEOTEXTILE UNDERLINER. THE RIP-RAP SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN. |
| | | LINE CODE | |
| Ch-2R3 | CHANNEL STABILIZATION RIP-RAP, TYPE 3 CONSTRUCTION DETAIL D-49 SECTION 603 | | THIS ITEM CONSISTS OF LINING A CHANNEL WITH TYPE 3 RIP-RAP 24" THICK (UNLESS SPECIFIED OTHERWISE) PLACED ON TOP OF A GEOTEXTILE UNDERLINER. THE RIP-RAP SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN. |
| | | LINE CODE | |

NOTE:

- DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
- FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, 'MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA'.

| REVISION DATES | | EROSION CONTROL LEGEND | |
|----------------|-------------|------------------------|----------|
| 3/2/2017 | | UNIFORM CODE SHEET | |
| 11/28/2018 | | SHEET 2 OF 7 | |
| CHECKED: | D. EAGLETON | DATE: | 01/01/16 |
| BACKCHECKED: | | DATE: | |
| CORRECTED: | | DATE: | |
| VERIFIED: | | DATE: | |
| | | DRAWING No. | |
| | | 52-0002 | |

| CODE | PRACTICE STD OR DETAIL SPEC. SECT. | DETAIL | DESCRIPTION |
|--------|---|---|---|
| Ch-2T1 | TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711 |  | THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-2 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN. |
| | LINE CODE |  | |
| Ch-2T2 | TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711 |  | THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-4 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN. |
| | LINE CODE |  | |
| Ch-2T3 | TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711 |  | THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-6 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN. |
| | LINE CODE |  | |
| Ch-2T4 | TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711 |  | THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-8 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN. |
| | LINE CODE |  | |
| Ch-2T5 | TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711 |  | THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-10 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN. |
| | LINE CODE |  | |

| CODE | PRACTICE STD OR DETAIL SPEC. SECT. | DETAIL | DESCRIPTION |
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| Ch-2T6 | TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711 |  | THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-12 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN. |
| | LINE CODE |  | |
| Ch-3 | CONCRETE CHANNEL STABILIZATION CONSTRUCTION DETAIL D-10, D-49 SECTION 441 |  | CHANNELS ARE LINED WITH CONCRETE FOR VELOCITIES >= 10 fps. THIS ITEM CONSISTS OF CONSTRUCTING A 4" THICK CONCRETE CHANNEL. THE CONCRETE SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN. RIP-RAP SHOULD BE USED TO DISSIPATE ENERGY DOWNSTREAM OF CONCRETE LINED CHANNELS. |
| | LINE CODE |  | |
| Co | CONSTRUCTION EXIT CONSTRUCTION DETAIL D-41 SECTION 163, 800 |  | A CONSTRUCTION EXIT IS A STONE STABILIZED PAD THAT REDUCES OR ELIMINATES THE TRANSPORT OF MUD FROM CONSTRUCTION AREAS ONTO PUBLIC ROADS BY EQUIPMENT OR RUNOFF. BEST USED AT ACCESS POINTS, I. E. NEW LOCATION PROJECTS, BORROW PITS, WASTE PITS, ACCESS ROADS, ETC. SHOULD BE MINIMUM 20' WIDE, 50' LONG, 6" THICK, AND REQUIRES A GEOTEXTILE UNDERLINER. ON SITES WHERE THE GRADE TOWARD A PAVED AREA IS GREATER THAN 2%, A FULL WIDTH DIVERSION RIDGE 6" TO 8" HIGH WITH 3:1 SLOPES SHALL BE CONSTRUCTED APPROXIMATELY 15' UPSTREAM OF PAVED AREA. A TIRE WASHING AREA TO REMOVE MUD MAY ALSO BE REQUIRED PRIOR TO ENTRANCE ONTO PUBLIC ROADWAYS. ALL CONSTRUCTION EXIT REQUIREMENTS ARE INCLUDED IN THE PRICE OF THE CONSTRUCTION EXIT. |
| | SYMBOL |  | |
| Dc-A | STREAM DIVERSION CHANNEL GEOTEXTILE, POLYETHYLENE FILM SECTION 163 |  | A TEMPORARY CHANNEL CONSTRUCTED TO CONVEY FLOW AROUND A CONSTRUCTION SITE WHILE A PERMANENT DRAINAGE STRUCTURE IS BEING CONSTRUCTED IN A NATURAL STREAM. THIS IS A MEASURE USED TO PROTECT STREAM BEDS FROM EROSION. LINE THE CHANNEL WITH GEOTEXTILE OR POLYETHYLENE FILM. INSTALL TWO ROWS OF Sd1-S PARALLEL TO THE CHANNEL TO PREVENT SEDIMENT LADEN RUNOFF FROM ENTERING THE STREAM. THE SIZE OF THE CHANNEL WILL DEPEND ON THE DISCHARGE, CHANNEL GEOMETRY, CHANNEL SLOPE AND ROUGHNESS. IT IS ACCEPTABLE FOR VELOCITIES BETWEEN 0 - 2.5 fps. THE DRAINAGE AREA SHALL BE NOT GREATER THAN 1 SQUARE MILE. CONSTRUCTION OF THE DIVERSION CHANNEL IS INCLUDED IN THE COST OF THE STRUCTURE. |
| | LINE CODE |  | |

NOTE:

- DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
- FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, 'MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA'.

Keck+Wood
 COLLABORATION BY DESIGN
 3090 Premiere Parkway, Suite 200
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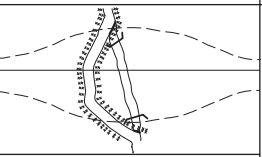
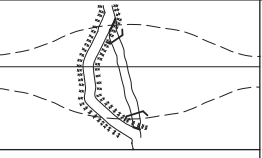
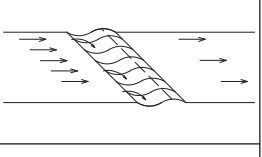
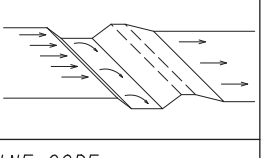
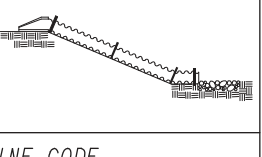
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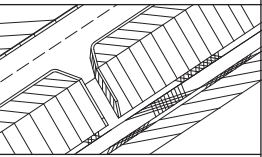
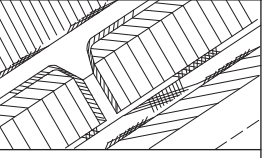
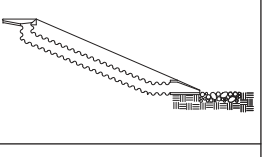
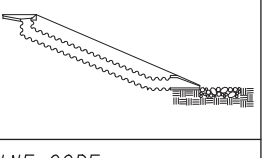
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EROSION CONTROL LEGEND
 UNIFORM CODE SHEET
 SHEET 3 OF 7

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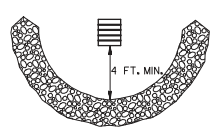

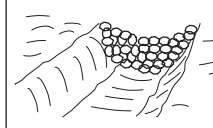





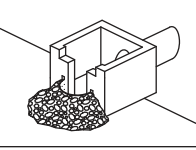

| CODE | PRACTICE STD OR DETAIL SPEC. SECT. | DETAIL | DESCRIPTION |
|------|---|---|--|
| Dc-B | STREAM DIVERSION CHANNEL GEOTEXTILE ONLY SECTION 163 |  | A TEMPORARY CHANNEL CONSTRUCTED TO CONVEY FLOW AROUND A CONSTRUCTION SITE WHILE A PERMANENT DRAINAGE STRUCTURE IS BEING CONSTRUCTED IN A NATURAL STREAM. THIS IS A MEASURE USED TO PROTECT STREAM BEDS FROM EROSION. LINE THE CHANNEL WITH GEOTEXTILE ONLY. INSTALL TWO ROWS OF Sd1-S PARALLEL TO THE CHANNEL TO PREVENT SEDIMENT LADEN RUNOFF FROM ENTERING THE STREAM. THE SIZE OF THE CHANNEL WILL DEPEND ON THE DISCHARGE, CHANNEL GEOMETRY, CHANNEL SLOPE AND ROUGHNESS. IT IS ACCEPTABLE FOR VELOCITIES BETWEEN 2.5 - 9.0 fps. |
| | LINE CODE | | THE DRAINAGE AREA SHALL BE NOT GREATER THAN 1 SQUARE MILE. CONSTRUCTION OF THE DIVERSION CHANNEL IS INCLUDED IN THE COST OF THE STRUCTURE. |
| Dc-C | STREAM DIVERSION CHANNEL RIP-RAP & GEOTEXTILE SECTION 163 |  | A TEMPORARY CHANNEL CONSTRUCTED TO CONVEY FLOW AROUND A CONSTRUCTION SITE WHILE A PERMANENT DRAINAGE STRUCTURE IS BEING CONSTRUCTED IN A NATURAL STREAM. THIS IS A MEASURE USED TO PROTECT STREAM BEDS FROM EROSION. LINE THE CHANNEL WITH RIP-RAP AND GEOTEXTILE. INSTALL TWO ROWS OF Sd1-S PARALLEL TO THE CHANNEL TO PREVENT SEDIMENT LADEN RUNOFF FROM ENTERING THE STREAM. THE SIZE OF THE CHANNEL WILL DEPEND ON THE DISCHARGE, CHANNEL GEOMETRY, CHANNEL SLOPE AND ROUGHNESS. IT IS ACCEPTABLE FOR VELOCITIES BETWEEN 9.0 - 13.0 fps. |
| | LINE CODE | | THE DRAINAGE AREA SHALL BE NOT GREATER THAN 1 SQUARE MILE. CONSTRUCTION OF THE DIVERSION CHANNEL IS INCLUDED IN THE COST OF THE STRUCTURE. |
| D1-1 | DIVERSION BERM CONSTRUCTION DETAIL D-47 SECTION 205 |  | A NON-DESIGNED TEMPORARY EARTHEN BERM WITH A COMPACTED SUPPORTING RIDGE ON THE LOWER SIDE TO BE USED AT THE EDGE OF EMBANKMENT DURING THE GRADING OPERATION. THE BERMS ARE ALSO CONSTRUCTED ABOVE, ACROSS OR BELOW A SLOPE TO REDUCE THE LENGTH OF A SLOPE. THEY ARE USED TO INTERCEPT RUNOFF, PREVENTING SLOPE EROSION AND TO DIRECT THE RUNOFF TO A STABLE OUTLET, DOWN DRAINS 'Dn1' OR CATCHMENT AREAS AND ON ALL GRADING PROJECTS. |
| | LINE CODE | | |
| D1-2 | DIVERSION CHANNEL SECTION 205 |  | A DESIGNED TEMPORARY OR PERMANENT CHANNEL WITH A COMPACTED SUPPORTING RIDGE ON THE LOWER SIDE TO DIVERT OFFSITE RUNOFF AWAY FROM DISTURBED AREAS WITHIN THE PROJECT AREA. CHANNEL FOR OFFSITE RUNOFF SHALL BE STABILIZED WITH APPROPRIATE CHANNEL STABILIZATION. REFER TO THE LATEST EDITION OF THE 'MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA' FOR DESIGN CRITERIA. A DIVERSION CHANNEL DETAIL MUST ALSO BE PROVIDED IN THE ESPCP. |
| | LINE CODE | | RUNOFF FROM DISTURBED AREAS WITHIN THE PROJECT AREA SHALL NOT BE ALLOWED TO CONVERGE WITH OFFSITE RUNOFF WITHIN THIS DIVERSION. |
| Dn1 | TEMPORARY DOWNDRAIN STRUCTURE FLEXIBLE CONSTRUCTION DETAIL D-19 SECTION 163 |  | A TEMPORARY PIPE SLOPE DRAIN IS A PLASTIC FLEXIBLE PIPE TO CARRY WATER FROM THE WORK AREA TO A LOWER ELEVATION. TEMPORARY SLOPE DRAINS SHOULD BE PLACED AT INTERVALS OF 350 FEET ON 0% - 2% GRADES, 200 FEET ON STEEPER GRADES AND MORE FREQUENTLY AS DICTATED BY FIELD CONDITIONS. THE TYPICAL PIPE SIZE IS A CORRUGATED 10'. THE PIPE WILL BE ANCHORED WITH STAKES AT INTERVALS NOT TO EXCEED 10'. |
| | LINE CODE | | THE OUTLET AREA SHALL BE STABILIZED FOR VELOCITY DISSIPATION AND EROSION CONTROL. |

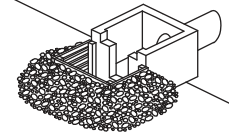

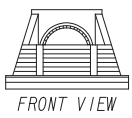
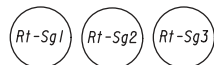




| CODE | PRACTICE STD OR DETAIL SPEC. SECT. | DETAIL | DESCRIPTION |
|-------|---|---|--|
| Dn2-A | PERMANENT DOWNDRAIN STRUCTURE CONCRETE CONSTRUCTION DETAIL D-9 SECTION 441 |  | A CONCRETE FLUME TYPE 'A' IS USED TO DIRECT SURFACE RUNOFF DOWN A ROADWAY SLOPE INTO ANOTHER FORM OF CONTROL. IT IS USED IN ALL DEPRESSED AREAS WHERE WATER WILL FLOW DOWN THE SLOPE. IT IS DESIGNED FOR A 25-YEAR STORM AND MUST HAVE SOME FORM OF OUTLET PROTECTION. ADDITIONAL LABELING IS NOT REQUIRED IF SHOWN AS A PERMANENT DRAINAGE STRUCTURE ON THE CONSTRUCTION PLANS. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OTHER CRITERIA). |
| | LINE CODE | | |
| Dn2-B | PERMANENT DOWNDRAIN STRUCTURE CONCRETE CONSTRUCTION DETAIL D-9 SECTION 441 |  | A CONCRETE FLUME TYPE 'B' IS USED TO DIRECT SURFACE DITCH RUNOFF DOWN A BACK SLOPE INTO ANOTHER FORM OF CONTROL. IT IS USED IN DEPRESSED AREAS WHERE CONCENTRATED OFFSITE WATER REACHES THE CUT SLOPE. IT IS DESIGNED TO SAFELY CONVEY WATER DOWN THE CUT SLOPE. IT IS DESIGNED FOR A 25-YEAR STORM AND MUST HAVE SOME FORM OF OUTLET PROTECTION. ADDITIONAL LABELING IS NOT REQUIRED IF SHOWN AS A PERMANENT DRAINAGE STRUCTURE ON THE CONSTRUCTION PLANS. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OR OTHER CRITERIA). |
| | LINE CODE | | |
| Dn2-1 | PERMANENT DOWNDRAIN STRUCTURE GA. STD 9013 TP1, 9017J TP1, DETAIL D-26 TP1 SECTION 576, 577 |  | CONCRETE DRAIN INLET WITH METAL PIPE IS USED TO DRAIN CURBS, ON A GRADE, DOWN TO A LOWER ELEVATION. THIS IS A PERMANENT STRUCTURE, REQUIRING OUTLET PROTECTION, TEMPORARY AND PERMANENT. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OR OTHER CRITERIA). |
| | LINE CODE | | |
| Dn2-2 | PERMANENT DOWNDRAIN STRUCTURE GA. STD 9013 TP2, 9017J TP2, DETAIL D-26 TP2 SECTION 576, 577 |  | CONCRETE DRAIN INLET AND METAL PIPE IS USED TO DRAIN CURB, IN A SAG, DOWN TO A LOWER ELEVATION. THIS IS A PERMANENT STRUCTURE, REQUIRING OUTLET PROTECTION, TEMPORARY AND PERMANENT. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OR OTHER CRITERIA). |
| | LINE CODE | | |

NOTE:

- DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
- FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, 'MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA'.

| REVISION DATES | | EROSION CONTROL LEGEND | |
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| 3/2/2017 | | UNIFORM CODE SHEET | |
| | | SHEET 4 OF 7 | |
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| CODE | PRACTICE STD OR DETAIL SPEC. SECT. | DETAIL | DESCRIPTION |
|------|--|---|--|
| Fr | FILTER RING CONSTRUCTION DETAIL D-46 SECTION 163 |  | A TEMPORARY STONE BARRIER CONSTRUCTED AT DRAINAGE STRUCTURE INLETS AND POST-CONSTRUCTION POND OUTLETS. IT REDUCES RUNOFF VELOCITY AND HELPS PREVENT SEDIMENT FROM LEAVING SITE PRIOR TO PERMANENT STABILIZATION OF THE DISTURBED AREA. REFER TO THE LATEST EDITION OF THE 'MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA' FOR ADDITIONAL INFORMATION ON USAGE. |
| | SYMBOL  | | |
| Rd | ROCK FILTER DAM CONSTRUCTION DETAIL D-43 SECTION 163, 603 |  | ROCK FILTER DAMS ARE CONSTRUCTED OF TYPE 3 STONE RIP-RAP FACED WITH *57 STONE ON THE UPSTREAM SIDE. THEY ARE PLACED ACROSS DRAINAGEWAYS WHICH DRAIN 50 ACRES OR LESS. GEOTEXTILE UNDERLINER SHALL BE USED WHEN PLACING ROCK FILTER DAMS. THE DAM SHOULD NOT BE HIGHER THAN THE CHANNEL BANKS. ROCK FILTER DAMS SHOULD BE USED IN DITCHES PRIOR TO DISCHARGING INTO STREAMS, WETLANDS, OPEN-WATERS, OR OTHER ESAs. |
| | SYMBOL  | | |
| Rd-B | STONE FILTER BERM CONSTRUCTION DETAIL D-50 SECTION 163, 603 |  | STONE FILTER BERMS ARE CONSTRUCTED SIMILAR TO ROCK FILTER DAMS FOR A LINEAR APPLICATION. THEY ARE CONSTRUCTED OF TYPE-3 STONE RIP-RAP FACED WITH *57 STONE ON THE UPSTREAM SIDE. GEOTEXTILE UNDERLINER SHALL BE USED WHEN PLACING STONE FILTER BERMS. STONE FILTER BERMS ARE IDEAL ALONG THE PERIMETER FOR SHEET FLOW AND/OR SHALLOW CONCENTRATED FLOW TO A COMMON LOW AREA WHERE PERIMETER SILT FENCE ALONE MAY BE INSUFFICIENT. THERE IS NO WELL-DEFINED CHANNEL FOR A STANDARD ROCK FILTER DAM, AND/OR CONSTRUCTING A ROCK OUTLET TEMPORARY SEDIMENT TRAP IS NOT APPLICABLE. |
| | LINE CODE  | | |
| Rp | RIP-RAP SECTION 603 |  | RIP-RAP IS A FLEXIBLE PERMANENT BLANKET FOR PROTECTION OF FILL SLOPES AND BRIDGE END ROLLS. RIP-RAP TYPE-1 SHOULD BE PLACED ON TOP OF A GEOTEXTILE UNDERLINER AT A MINIMUM 24" THICKNESS OR AS INDICATED ON THE PLANS. RIP-RAP MAY ALSO BE USED AT DRAINAGE STRUCTURE OUTLETS WITHIN THE RIGHT-OF-WAY. HOWEVER, APPROPRIATE OUTLET PROTECTION SHOULD BE PROVIDED AT OUTFALLS. REFER TO STORM DRAIN OUTLET PROTECTION FOR ADDITIONAL INFORMATION ON USING RIP-RAP AT OUTFALLS. |
| | PATTERN  | | |
| Rt-P | RETROFITTING PERFORATED HALF-ROUND PIPE CONSTRUCTION DETAIL D-44 SECTION 163 |  | A PERFORATED HALF-ROUND PIPE WITH STONE FILTER PLACED IN FRONT OF A PERMANENT STORMWATER DETENTION POND OUTLET STRUCTURE TO SERVE AS A TEMPORARY SEDIMENT FILTER. SHOULD BE USED ONLY IN DETENTION PONDS WITH LESS THAN 30 ACRES TOTAL DRAINAGE AREA. SHALL ONLY BE USED IN DETENTION BASINS LARGE ENOUGH TO STORE 67 CUBIC YARDS OF SEDIMENT PER ACRE OF DISTURBED AREA. REFER TO THE LATEST EDITION OF THE 'MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA' FOR DESIGN CRITERIA. |
| | SYMBOL  | | |

| CODE | PRACTICE STD OR DETAIL SPEC. SECT. | DETAIL | DESCRIPTION | | |
|--------|--|---|--|---|--|
| Rt-B | RETROFITTING SLOTTED BOARD DAM CONSTRUCTION DETAIL D-45 SECTION 163 |  | A SLOTTED BOARD DAM CONSISTS OF STONE AND/OR FILTER FABRIC AND BOARDS WITH 0.5' - 1.0' SPACING TO SERVE AS A TEMPORARY SEDIMENT FILTER. PERMANENT STORMWATER DETENTION POND OUTLET: -DRAINAGE AREA UP TO 100 ACRES -DETENTION BASINS LARGE ENOUGH TO STORE 67 CUBIC YARDS OF SEDIMENT PER ACRE OF DISTURBED AREA ROADWAY DRAINAGE STRUCTURE: -OPEN END PIPES, WINGED HEADWALLS, OR CONCRETE WEIR OUTLETS WITH DRAINAGE AREA LESS THAN 30 ACRES REFER TO THE LATEST EDITION OF THE 'MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA' FOR DESIGN CRITERIA. | | |
| | SYMBOL  | | | | |
| Rt-Sg1 | RETROFITTING SILT CONTROL GATES CONSTRUCTION DETAIL D-20 SECTION 163 |  | A SILT CONTROL GATE CONSISTS OF BOARDS WITHOUT SPACING AND FILTER FABRIC TO BE USED FOR TEMPORARY SEDIMENT STORAGE ON ROADWAY PROJECTS AT THE INLET OF STRUCTURES WITH A DRAINAGE AREA UP TO 50 ACRES. THE DISTURBED AREA WITHIN THE DRAINAGE AREA SHALL NOT EXCEED 5 ACRES. SILT CONTROL GATES SHOULD NOT BE USED ALONE, BUT WITH ANOTHER BMP DOWNSTREAM PRIOR TO DISCHARGE LEAVING PROJECT AREA. DO NOT USE SILT GATES IN STATE WATERS. Rt-Sg1=TYPE 1: USED ON BOX CULVERTS Rt-Sg2=TYPE 2: USED ON STRAIGHT HEADWALLS Rt-Sg3=TYPE 3: USED ON FLARED END SECTIONS AND TAPERED HEADWALLS | | |
| | | | | SYMBOL  | |
| | | | | FRONT VIEW | |
| Sd1-NS | SEDIMENT BARRIER (NON-SENSITIVE) SILT FENCE TYPE A CONSTRUCTION DETAIL D-24 SECTION 171 |  | SEDIMENT BARRIERS MINIMIZE AND PREVENT SEDIMENT CARRIED BY SHEET FLOW FROM LEAVING THE PROJECT AREA BY CAUSING DEPOSITION AND/OR FILTRATION OF SEDIMENT. SILT FENCE USED AS PERIMETER CONTROL SHALL NOT BE INSTALLED ACROSS CONCENTRATED FLOW. TYPE-A SILT FENCE IS TYPICALLY USED IN NON-ENVIRONMENTALLY SENSITIVE AREAS (ESAs) OR IN AREAS WITH FILLS LESS THAN 10'. IT SHOULD BE PLACED A MINIMUM OF 10' FROM CONSTRUCTION LIMITS OR ALONG THE RIGHT-OF-WAY LINE. | | |
| | | | LINE CODE  | | |
| Sd1-S | SEDIMENT BARRIER (SENSITIVE) SILT FENCE TYPE C CONSTRUCTION DETAIL D-24 SECTION 171 |  | SEDIMENT BARRIERS MINIMIZE AND PREVENT SEDIMENT CARRIED BY SHEET FLOW FROM LEAVING THE PROJECT AREA BY CAUSING DEPOSITION AND/OR FILTRATION OF SEDIMENT. SILT FENCE USED AS PERIMETER CONTROL SHALL NOT BE INSTALLED ACROSS CONCENTRATED FLOW. TYPE-C SILT FENCE IS TYPICALLY USED IN ENVIRONMENTALLY SENSITIVE AREAS (ESAs) OR IN AREAS WITH FILLS 10' AND GREATER. ALL ENVIRONMENTALLY SENSITIVE AREAS (ESAs) SHALL BE PROTECTED WITH A DOUBLE-ROW OF TYPE-C SILT FENCE REGARDLESS OF FILL HEIGHT. A SINGLE-ROW MAY BE USED FOR OTHER APPLICATIONS. IT SHOULD BE PLACED A MINIMUM OF 10' FROM CONSTRUCTION LIMITS OR ALONG THE RIGHT-OF-WAY LINE. | | |
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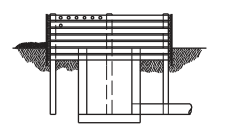

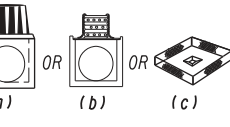

- DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
- FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, 'MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA'.

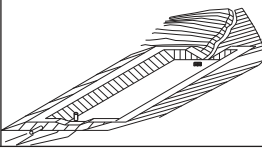
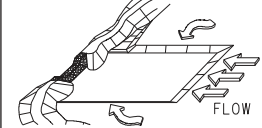
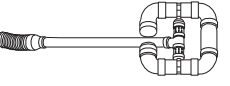
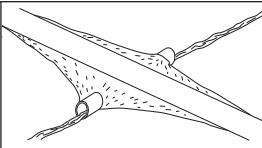
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EROSION CONTROL LEGEND
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 SHEET 5 OF 7

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| CODE | PRACTICE STD OR DETAIL SPEC. SECT. | DETAIL | DESCRIPTION |
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| Sd1-BB | SEDIMENT BARRIER BRUSH BARRIER CONSTRUCTION DETAIL D-24B SECTION 201 |  | THIS ITEM CONSISTS OF INTERMINGLED BRUSH, LOGS, ETC. SO AS NOT TO FORM A SOLID DAM. CONSTRUCTED AT THE TOE OF FILL SLOPES ONLY DURING THE CLEARING AND GRUBBING OPERATION. THE BARRIER SHOULD BE USED AT THE TOE OF FILL SLOPES ON GRADING PROJECTS IN RURAL AREAS WHERE SUFFICIENT RIGHT OF WAY OR EASEMENT IS AVAILABLE (10 FEET OR MORE). THE BARRIER SHOULD RUN ROUGHLY PERPENDICULAR TO THE FLOW OF WATER WHERE THIS DOES NOT CONFLICT WITH RIGHT-OF-WAY OR EASEMENT LIMITS. THEY WILL NOT BE PLACED IN WETLANDS. TYPICALLY NOT SHOWN ON PLANS. PAYMENT FOR THIS ITEM IS INCLUDED IN THE CLEARING AND GRUBBING COST. NO SEPARATE PAYMENT SHALL BE MADE. |
| | LINE CODE * * * Sd1-BB * * * | | |
| Sd2-B | INLET SEDIMENT TRAP (BAFFLE BOX) CONSTRUCTION DETAIL D-42 SECTION 163 |  | BAFFLE BOX INLET SEDIMENT TRAP USED FOR INLETS RECEIVING HIGH FLOW RATE AND/OR VELOCITY. A GUIDE FOR USE WILL BE FOR AN INLET RECEIVING FLOW RATES 7 cfs AND GREATER. |
| | SYMBOL Sd2-B | | |
| Sd2-Bg | INLET SEDIMENT TRAP (BLOCK & GRAVEL) CONSTRUCTION DETAIL D-42 SECTION 163 |  | BLOCK AND GRAVEL DROP INLET PROTECTION USED FOR WHERE HEAVY FLOWS ARE EXPECTED AND WHERE OVERFLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND THE STRUCTURE. CAN BE USED AT CULVERT INLETS. A GUIDE FOR USE WILL BE FOR AN INLET RECEIVING FLOW RATES THAT RANGE FROM 5 - 7 cfs. |
| | SYMBOL Sd2-Bg | | |
| Sd2-F | INLET SEDIMENT TRAP (FILTER FABRIC) CONSTRUCTION DETAIL D-24C SECTION 163 |  | (a) A SEDIMENT BARRIER CONSISTING OF A PREFABRICATED FRAME WITH FILTER FABRIC USED AROUND A DROP INLET OR CATCH BASIN. (b) A SEDIMENT BARRIER CONSISTING OF A PERFORATED METAL STAND PIPE WITH FILTER FABRIC USED AROUND A DROP INLET OR CATCH BASIN. (c) TYPE C SILT FENCE WITH SUPPORTING FRAME CAN BE USED AS AN ALTERNATE TO INLET SEDIMENT TRAP FOR AREAS WITH SLOPES < 5%. THIS ITEM IS USED TO PREVENT SILT FROM ENTERING THE PIPE SYSTEM. SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS. RECOMMENDED FOR INLET RECEIVING FLOW RATES THAT RANGE FROM 0 - 4 cfs. |
| | SYMBOL Sd2-F | | |
| Sd2-G | INLET SEDIMENT TRAP (GRAVEL) CONSTRUCTION DETAIL D42 SECTION 163 |  | GRAVEL DROP INLET PROTECTION USED WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED. STONE AND GRAVEL ARE USED TO TRAP SEDIMENT. THE SLOPE TOWARD THE INLET SHALL BE NO MORE THAN 3:1. A GUIDE FOR USE WILL BE FOR AN INLET RECEIVING FLOW RATES THAT RANGE FROM 3 - 5 cfs. |
| | SYMBOL Sd2-G | | |

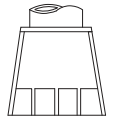

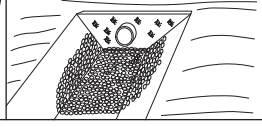
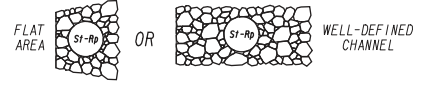
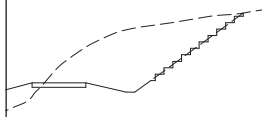
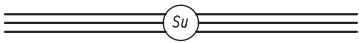
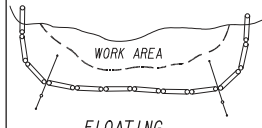
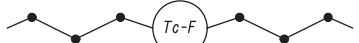
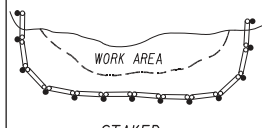

| CODE | PRACTICE STD OR DETAIL SPEC. SECT. | DETAIL | DESCRIPTION |
|-------|---|---|--|
| Sd3 | TEMPORARY SEDIMENT BASIN CONSTRUCTION DETAIL D-22A, D-22B SECTION 163 |  | A BASIN CREATED BY EXCAVATING AN AREA, DAMMING CONCENTRATED FLOW, OR A COMBINATION OF BOTH. THE BASIN IS DESIGNED TO STORE 67 CUBIC YARDS OF SEDIMENT PER ACRE OF DRAINAGE AREA. THE DRAINAGE AREA SHOULD NOT EXCEED 150 ACRES. BASINS TYPICALLY CONSISTS OF A DAM, PRINCIPAL SPILLWAY, AND AN EMERGENCY SPILLWAY. A FLOATING SURFACE SKIMMER SHALL BE REQUIRED AS PART OF THE PRINCIPAL SPILLWAY UNLESS INFEASIBLE. SUFFICIENT RIGHT-OF-WAY OR EASEMENT IS NEEDED FOR BASIN CONSTRUCTION AND MAINTENANCE ACCESS. SEDIMENT BASINS SHALL BE CONSIDERED ON ALL PROJECTS, BUT MAY NOT BE PRACTICAL. BASINS SHOULD BE LOCATED TO MINIMIZE INTERFERENCE WITH CONSTRUCTION ACTIVITIES AND UTILITIES. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR DESIGN CRITERIA. |
| | SYMBOL Sd3 | | |
| Sd4-C | ROCK OUTLET TEMPORARY SEDIMENT TRAP CONSTRUCTION DETAIL D-53 SECTION 163 |  | TEMPORARY POND WITH ROCK OUTLET DESIGNED TO STORE 67 CUBIC YARDS OF SEDIMENT PER DRAINAGE AREA. DRAINAGE AREA SHALL NOT EXCEED 5 ACRES. DISTINGUISHED FROM TEMPORARY SEDIMENT BASIN BY LACK OF PRINCIPAL SPILLWAY. MAXIMUM POND DEPTH FROM BOTTOM OF POND TO EMERGENCY SPILLWAY IS 4 FEET. A TEMPORARY SEDIMENT BASIN SHALL BE EVALUATED PRIOR TO CONSIDERING A TEMPORARY SEDIMENT TRAP. A TEMPORARY SEDIMENT TRAP IS IDEAL FOR SMALL AREAS WITH NO UNUSUAL DRAINAGE FEATURES AND EFFECTIVE AGAINST COARSE SEDIMENT, BUT NOT AGAINST SILT OR CLAY PARTICLES THAT REMAIN SUSPENDED. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR DESIGN CRITERIA. |
| | SYMBOL Sd4-C | | |
| Sk | FLOATING SURFACE SKIMMER CONSTRUCTION DETAIL D-22A, D-22B SECTION 163 |  | A BUOYANT DEVICE THAT DRAINS WATER FROM THE SURFACE OF A TEMPORARY SEDIMENT BASIN AT A CONTROLLED FLOW RATE. THE INLET/ORIFICE SIZE IS DESIGNED TO DRAIN THE BASIN WITHIN 24 - 48 HOURS. THE SKIMMER INFORMATION SHALL BE PROVIDED IN CONJUNCTION WITH THE SEDIMENT BASIN INFORMATION IN PLANS. IF A SKIMMER IS INFEASIBLE, THE DESIGNER SHALL PROVIDE A WRITTEN JUSTIFICATION IN THE PLANS. SKIMMERS ARE ATTACHED TO A RISER WITHOUT PERFORATIONS AND ACTS AS THE PRIMARY SPILLWAY. THE SKIMMER BMP SYMBOL SHALL BE SHOWN IN CONJUNCTION WITH THE TEMPORARY SEDIMENT BASIN BMP SYMBOL WHEN APPLICABLE. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR ADDITIONAL INFORMATION. |
| | SYMBOL Sk | | |
| Sr | TEMPORARY STREAM CROSSING SECTION 107 |  | A TEMPORARY STRUCTURE INSTALLED ACROSS A FLOWING STREAM OR WATERCOURSE FOR USE BY CONSTRUCTION EQUIPMENT. THIS BMP PROVIDES A MEANS TO CROSS STREAMS OR WATERCOURSES WITHOUT MOVING SEDIMENT INTO STREAMS, DAMAGING THE STREAM BED OR CHANNEL, OR CAUSING FLOODING. THIS BMP SHOULD NOT BE USED ON STREAMS WITH DRAINAGE AREAS GREATER THAN ONE SQUARE MILE, UNLESS SPECIFICALLY DESIGNED TO ACCOMMODATE THE ADDITIONAL DRAINAGE AREA BY THE DESIGN PROFESSIONAL. A CERTIFICATION STATEMENT AND SIGNATURE SHALL ACCOMPANY THE DESIGN. THIS BMP SHALL BE DESIGNED ACCORDING TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA". FOR CONTRACTOR'S USE ONLY! |
| | SYMBOL Sr | | |

NOTE:

- DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
- FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

| REVISION DATES | |
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| 3/2/2017 | |
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| CHECKED: D. EAGLETON | DATE: 01/01/16 | DRAWING No. |
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| VERIFIED: | DATE: | 52-0006 |

| CODE | PRACTICE STD OR DETAIL SPEC. SECT. | DETAIL | DESCRIPTION |
|-------|--|---|---|
| St | STORM DRAIN OUTLET PROTECTION GA. STD. 1125 & 2332 |  | A PIPE OR BOX CULVERT OUTLET HEADWALL WITH AN APRON AND DISSIPATOR BLOCKS IS USED TO REDUCE VELOCITY AT THE OUTLET OF A PIPE PRIOR TO ENTERING AN EXISTING STREAM OR PUBLICLY MAINTAINED DRAINAGE SYSTEM. IT IS USED ON THE OUTLET OF ALL BOX CULVERTS AND ON 48" AND LARGER PIPES. MAY BE USED ON INLET FOR FLOWING STREAMS. USE ON SMALL PIPES WHEN OUTLET VELOCITY OF THE 25-YEAR STORM IS 12 fps AND GREATER. |
| | SYMBOL  | | |
| St-Rp | STORM DRAIN OUTLET PROTECTION (RIP-RAP) CONSTRUCTION DETAIL D-55 SECTION 603 |  | RIP-RAP OUTLET PROTECTION IS USED TO REDUCE VELOCITY AT THE OUTLET OF A PIPE, CHANNEL, OR STRUCTURE PRIOR TO ENTERING AN EXISTING STREAM OR PUBLICLY MAINTAINED DRAINAGE SYSTEM. THE MINIMUM DESIGN OF RIP-RAP OUTLET PROTECTION SHALL BE THE 25-YEAR STORM PEAK FLOW, BUT LARGER STORMS ARE RECOMMENDED. TYPE-1 RIP-RAP AT A DEPTH OF 36" AND PLACED ON FILTER FABRIC IS PREFERRED FOR ALL d50 < /> 1.2 FEET. TYPE-3 RIP-RAP AT A DEPTH OF 18" AND PLACED ON FILTER FABRIC MAY BE USED FOR d50 < /> 0.7 FEET. |
| | PATTERN  | | REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR REQUIRED DESIGN DIMENSIONS AND OTHER INFORMATION TO BE INCLUDED IN THE PLANS. |
| Su | SURFACE ROUGHENING SERRATED SLOPES CONSTRUCTION DETAIL S-7 SECTION 205 |  | PROVIDING A ROUGH SOIL SURFACE WITH HORIZONTAL DEPRESSIONS, BY OPERATING A CLEATED DOZER ON THE SLOPE IN A VERTICAL DIRECTION. CREATING SERRATED SLOPES IN THE GRADING PROCESS TO CONSTRUCT BENCHES WILL REDUCE RUNOFF VELOCITY AND INCREASE INFILTRATION OF WATER. IN MOST CASES THIS BMP IS NOT REQUIRED TO BE SHOWN ON THE PLANS, BUT REQUIRED TO BE COMPLETED BY THE CONTRACTOR UNDER ALL PROJECTS. IF SERRATED SLOPES ARE SPECIFIED BY THE SOIL SURVEY, THEN THIS BMP SHALL BE SHOWN ON THE PLANS WHERE SERRATED SLOPES ARE TO BE USED. |
| | LINE CODE  | | |
| Tc-F | TURBIDITY CURTAIN FLOATING CONSTRUCTION DETAIL D-51 SECTION 170 |  | A FLOATING TURBIDITY CURTAIN IS USED TO PREVENT SEDIMENT FROM MOVING IN WATER BY ALLOWING IT TO DROP OUT OF SUSPENSION AND REMAIN WITHIN THE CONSTRUCTION AREA. IT IS TYPICALLY USED WHERE CONSTRUCTION IS REQUIRED IN A LARGE BODY OF WATER SUCH AS LAKES AND RIVERS. IT SHOULD BE USED AS DIRECTED BY THE ENGINEER. THIS BMP IS ONLY TO BE USED WHEN PERMITTED FILL IS BEING PLACED INTO A STATE WATER, OR AS A SUPPLEMENT TO ADEQUATELY PLACED PERIMETER BMPs. IT MAY ALSO BE REFERRED TO AS A FLOATING BOOM, SILT BARRIER, OR SILT CURTAIN. |
| | LINE CODE  | | |
| Tc-S | TURBIDITY CURTAIN STAKED CONSTRUCTION DETAIL D-51 SECTION 170 |  | A STAKED TURBIDITY CURTAIN IS USED TO PREVENT SEDIMENT FROM MOVING IN WATER BY ALLOWING IT TO DROP OUT OF SUSPENSION AND REMAIN WITHIN THE CONSTRUCTION AREA. IT IS TYPICALLY USED IN SHALLOW INUNDATED AREAS. IT MAY BE USED TO PROTECT A SMALL STREAM BEING REALIGNED OR RESTORED. IN THIS CASE, CURTAIN SHOULD EXTEND TO BOTTOM OF STREAMBED. THE HEIGHT SHOULD BE LIMITED TO 5 FEET UNLESS DIRECTED AND EXTEND 2 FEET ABOVE NORMAL WATER ELEVATION. IT SHOULD BE USED AS DIRECTED BY THE ENGINEER. THIS BMP IS ONLY TO BE USED WHEN PERMITTED FILL IS BEING PLACED INTO A STATE WATER, OR AS A SUPPLEMENT TO ADEQUATELY PLACED PERIMETER BMPs. IT MAY BE REFERRED TO AS A SILT BARRIER OR SILT CURTAIN. |
| | LINE CODE  | | |

| CODE | PRACTICE STD OR DETAIL SPEC. SECT. | DETAIL | DESCRIPTION |
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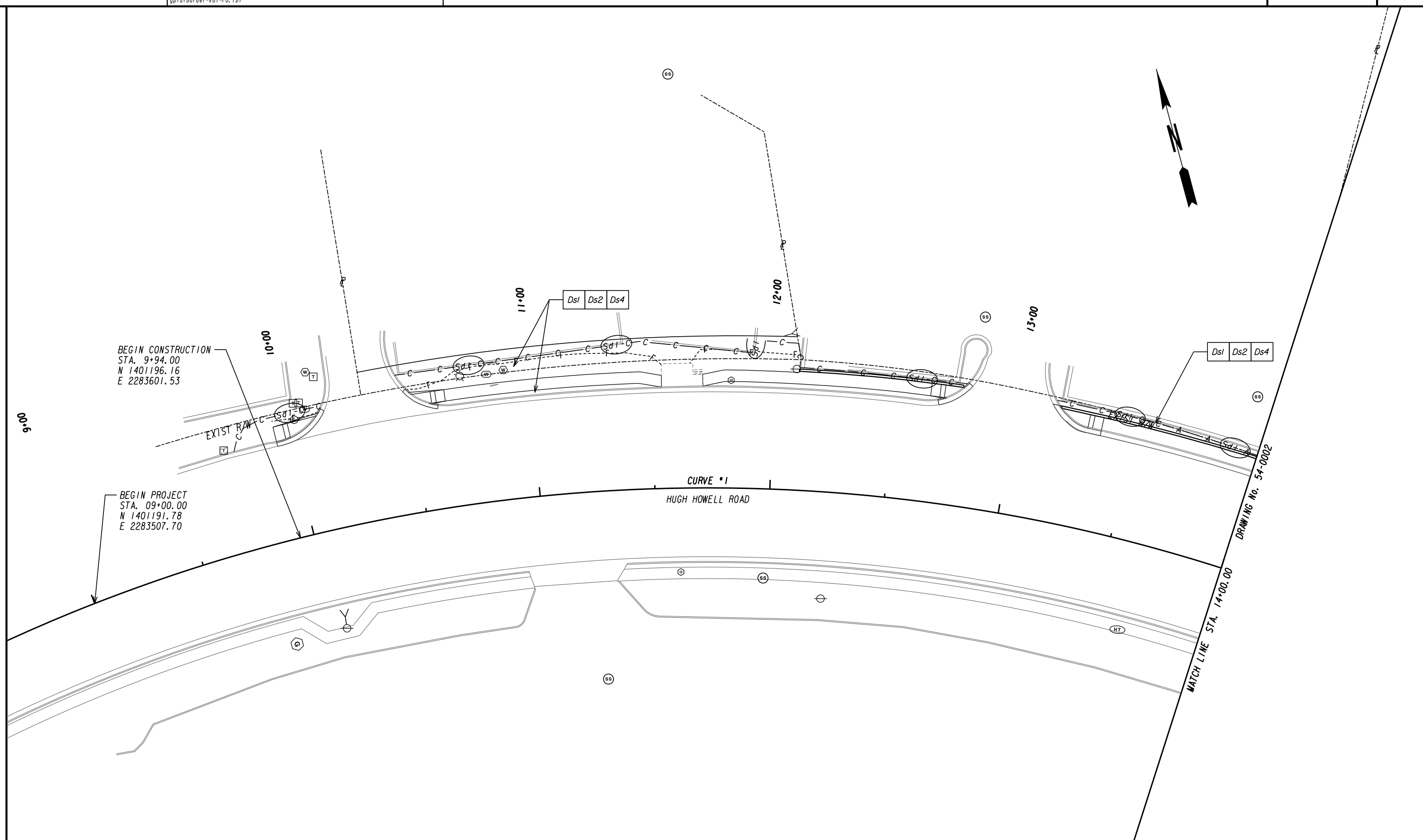
NOTE:

- DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
- FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

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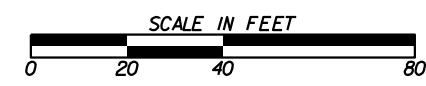
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| | | SHEET 7 OF 7 | |
| CHECKED: | D. EAGLETON | DATE: | 01/01/16 |
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| EASEMENT FOR CONSTR OF SLOPES | [Hatched Box] |
| EASEMENT FOR CONSTR OF DRIVES | [Hatched Box] |

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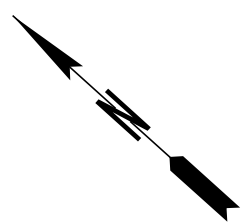
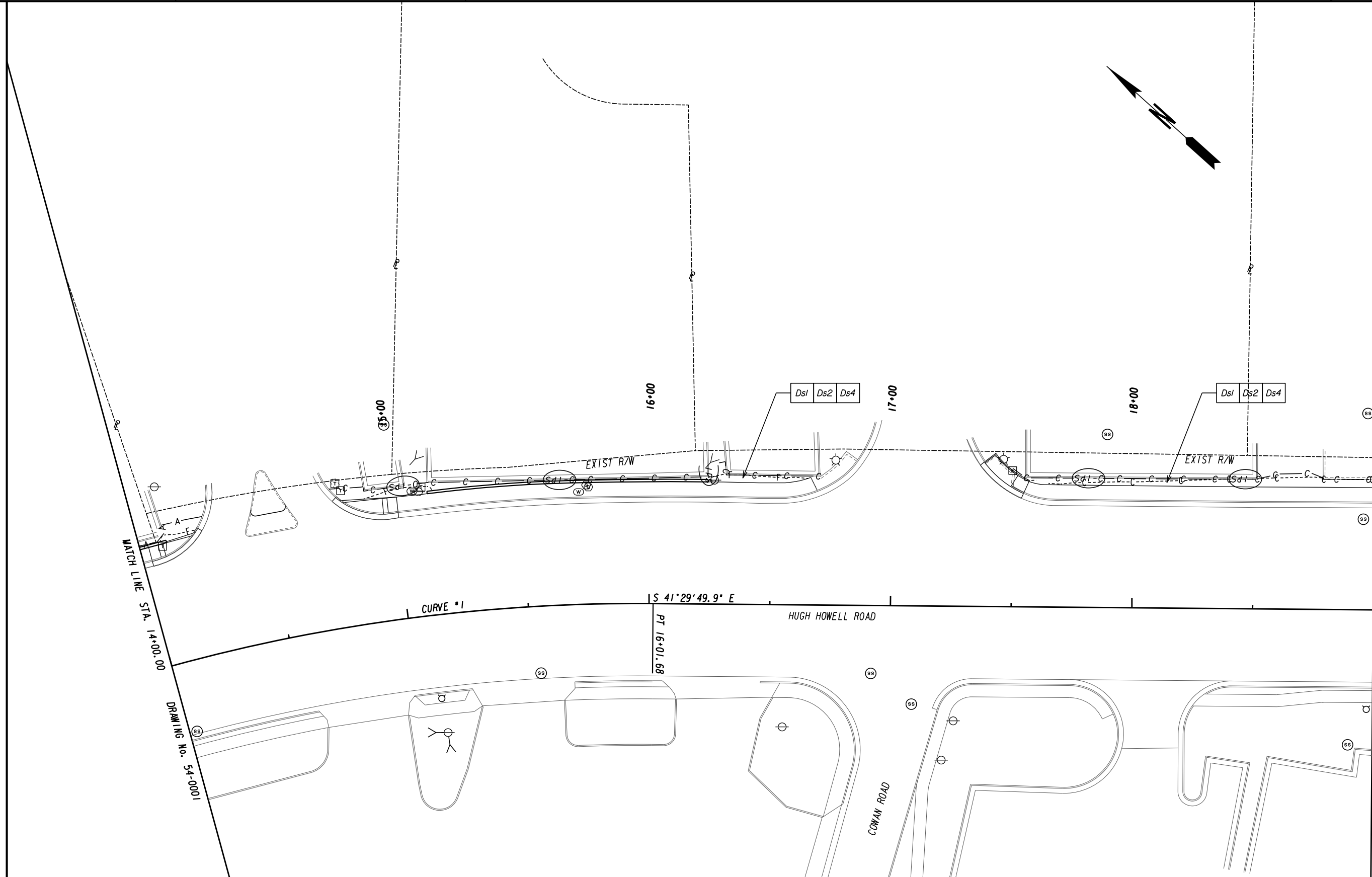
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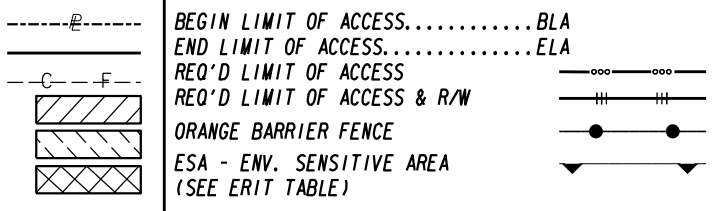
BMP LOCATION DETAILS
HUGH HOWELL ROAD SIDEWALK
CITY OF TUCKER

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MATCH LINE STA. 19+00.00

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 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
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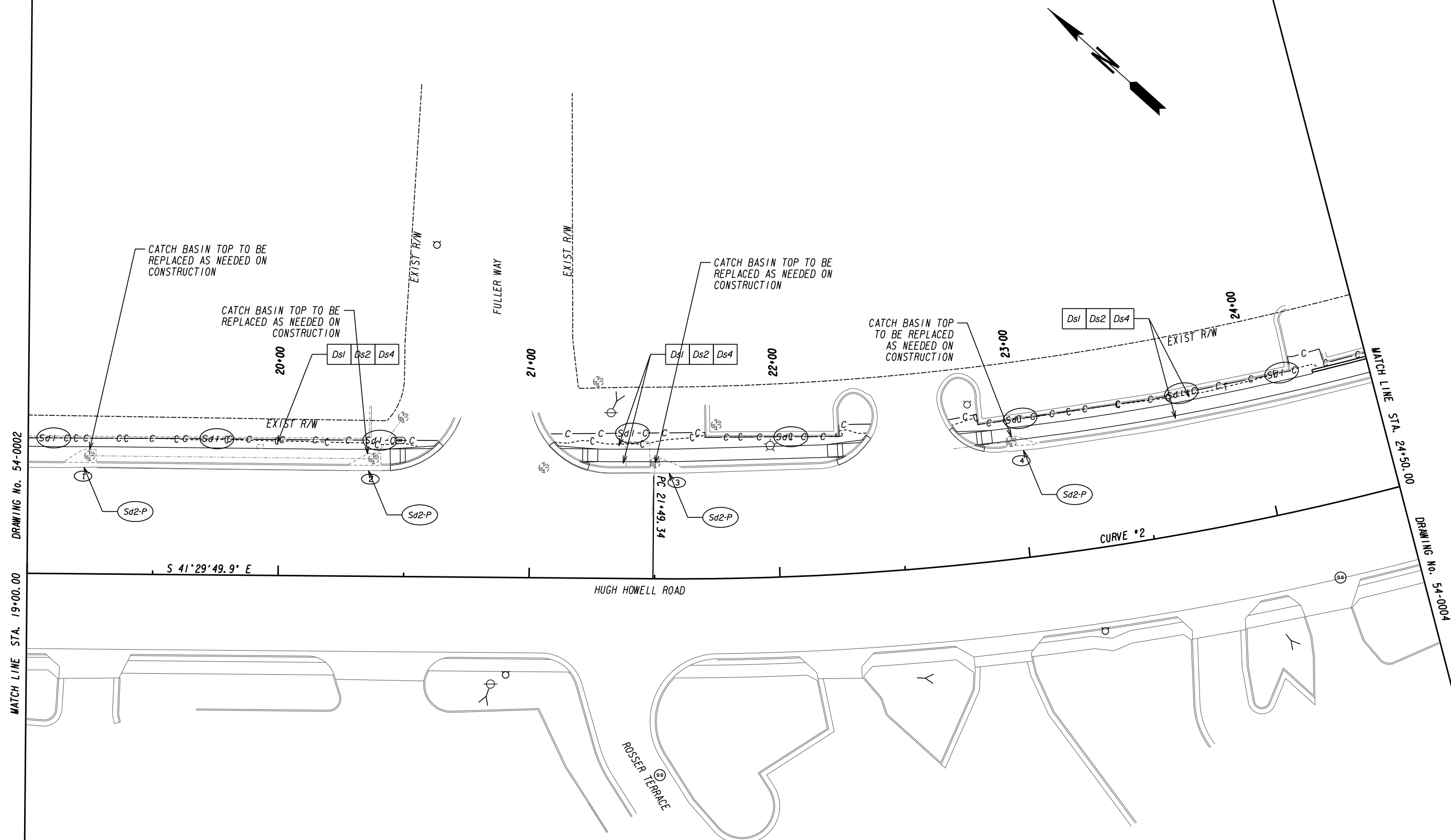
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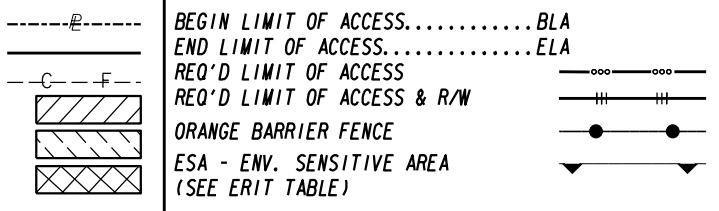
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BMP LOCATION DETAILS
 HUGH HOWELL ROAD SIDEWALK
 CITY OF TUCKER

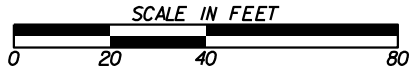
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 & MAINTENANCE OF SLOPES
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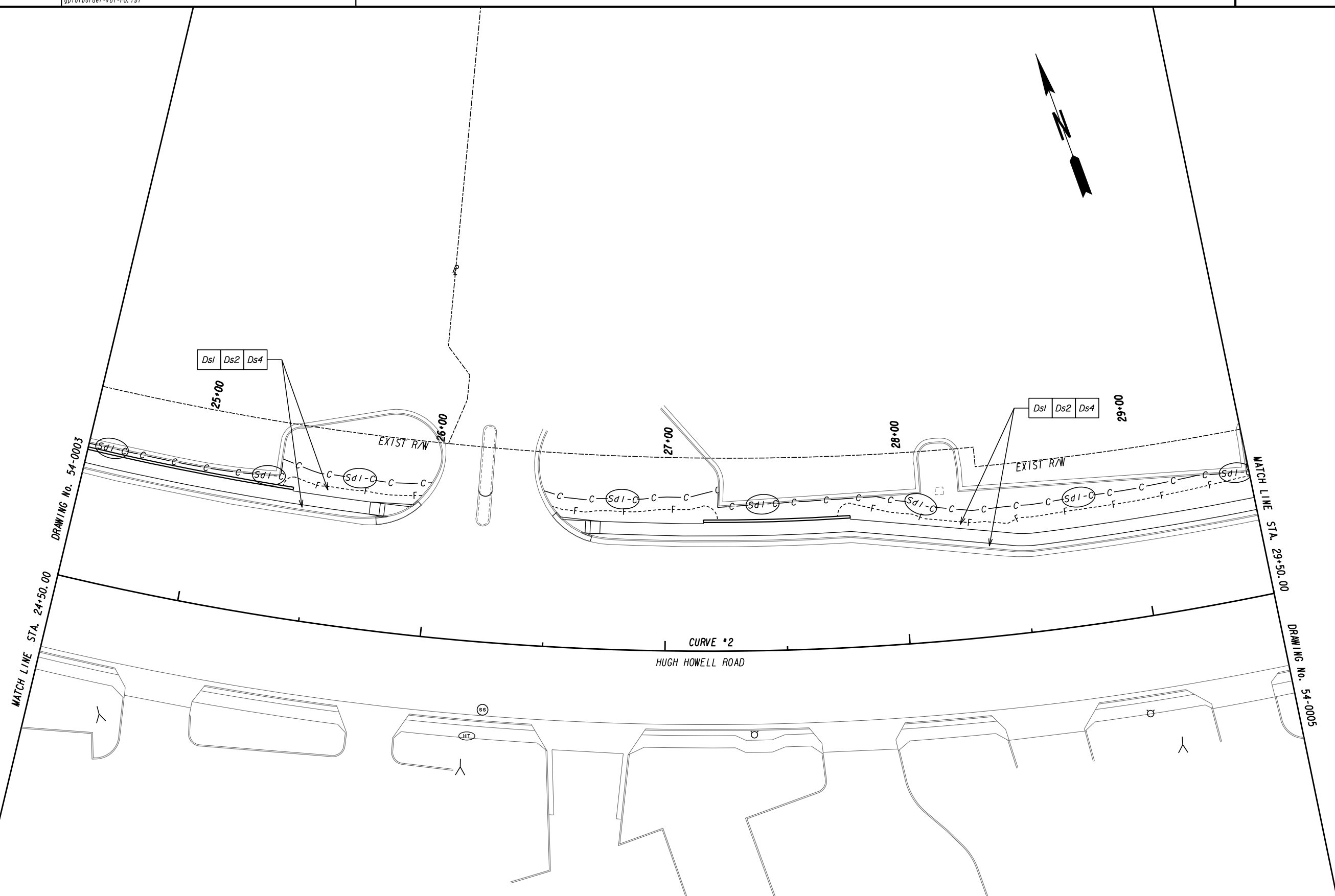
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BMP LOCATION DETAILS
 HUGH HOWELL ROAD SIDEWALK
 CITY OF TUCKER

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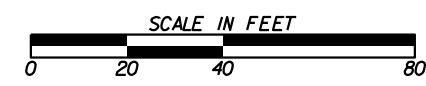
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 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

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 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)

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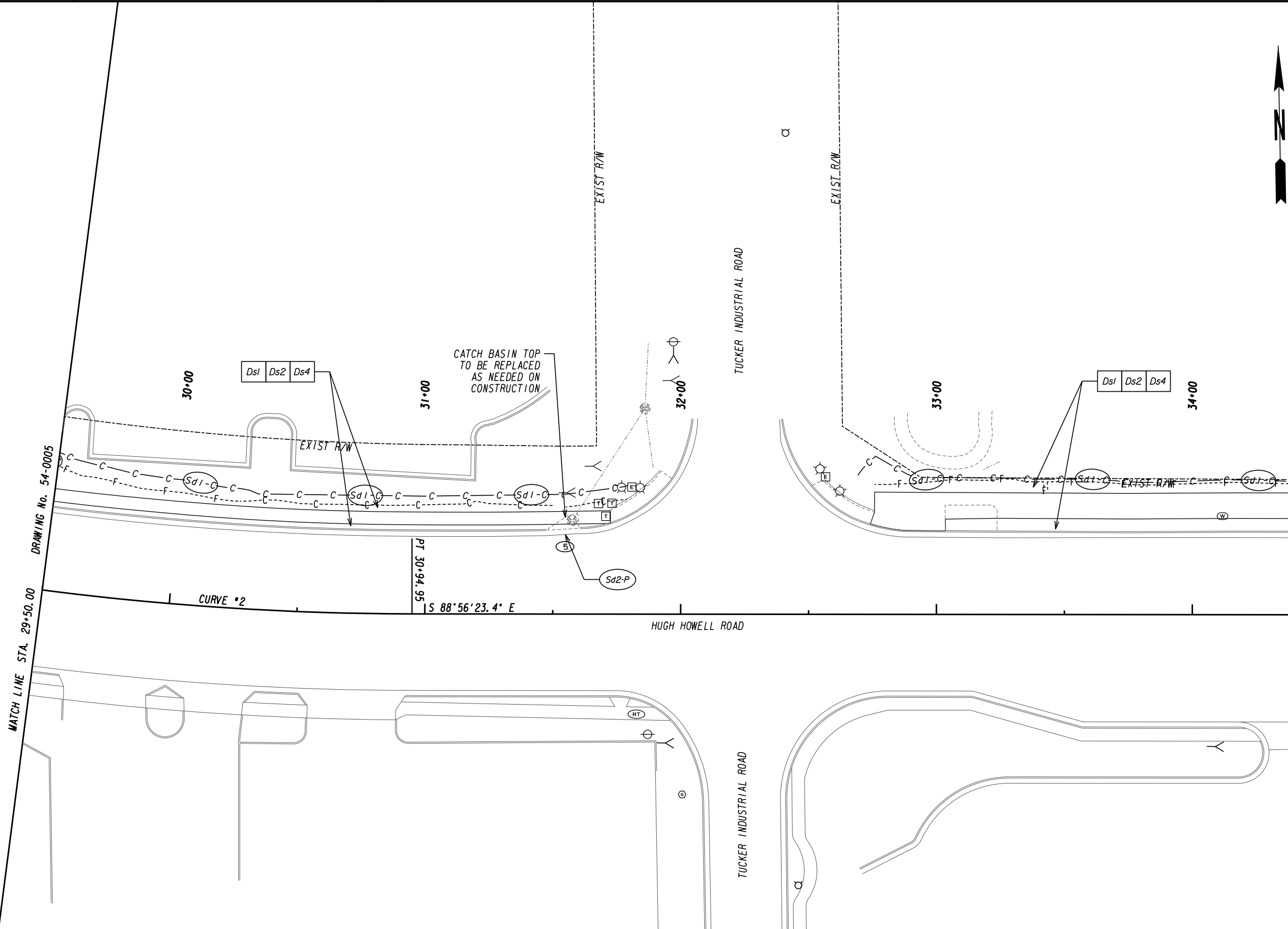
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BMP LOCATION DETAILS
 HUGH HOWELL ROAD SIDEWALK
 CITY OF TUCKER

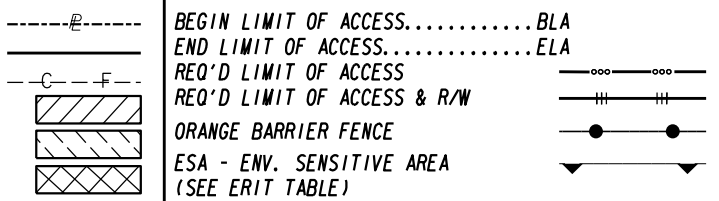
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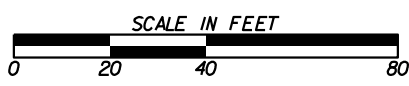
DRAWING No. 54-0005
MATCH LINE STA. 29+50.00

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MATCH LINE STA. 34+50.00

PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES



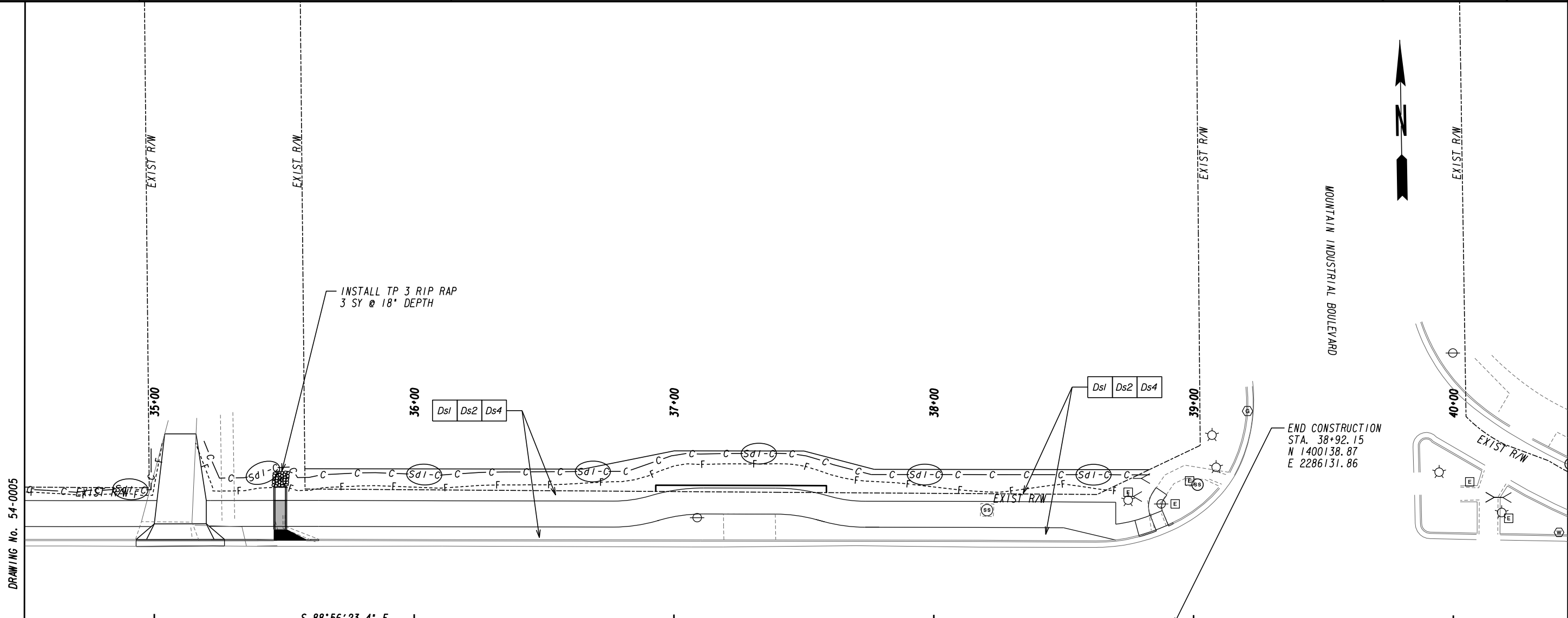
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BMP LOCATION DETAILS
 HUGH HOWELL ROAD SIDEWALK
 CITY OF TUCKER

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MATCH LINE STA. 34+50.00

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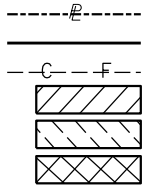
HUGH HOWELL ROAD

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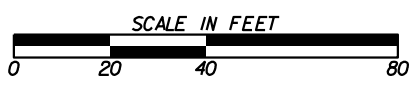
MOUNTAIN INDUSTRIAL BOULEVARD

PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES



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 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)

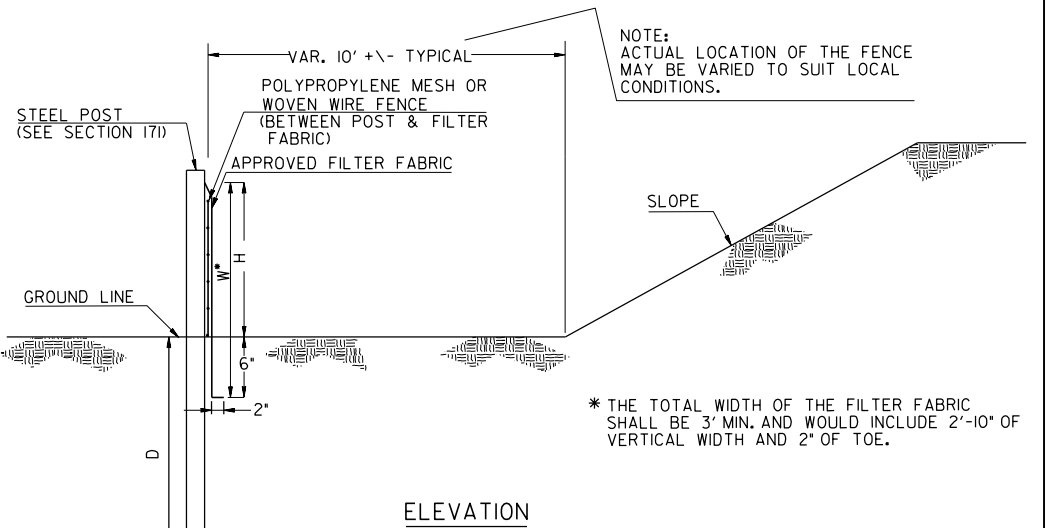
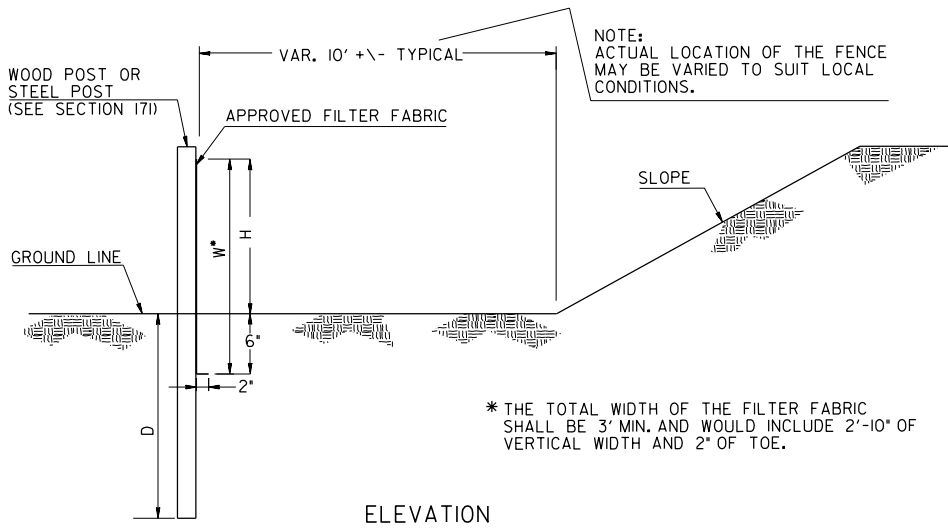
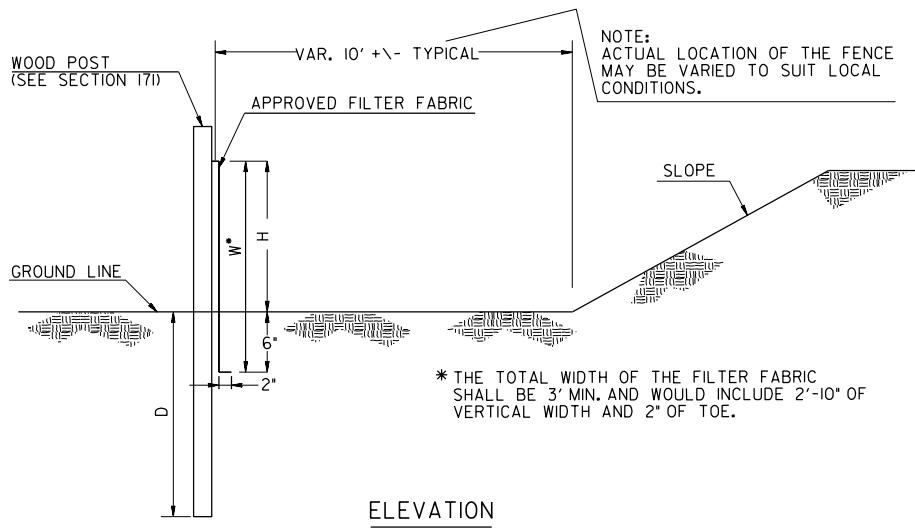
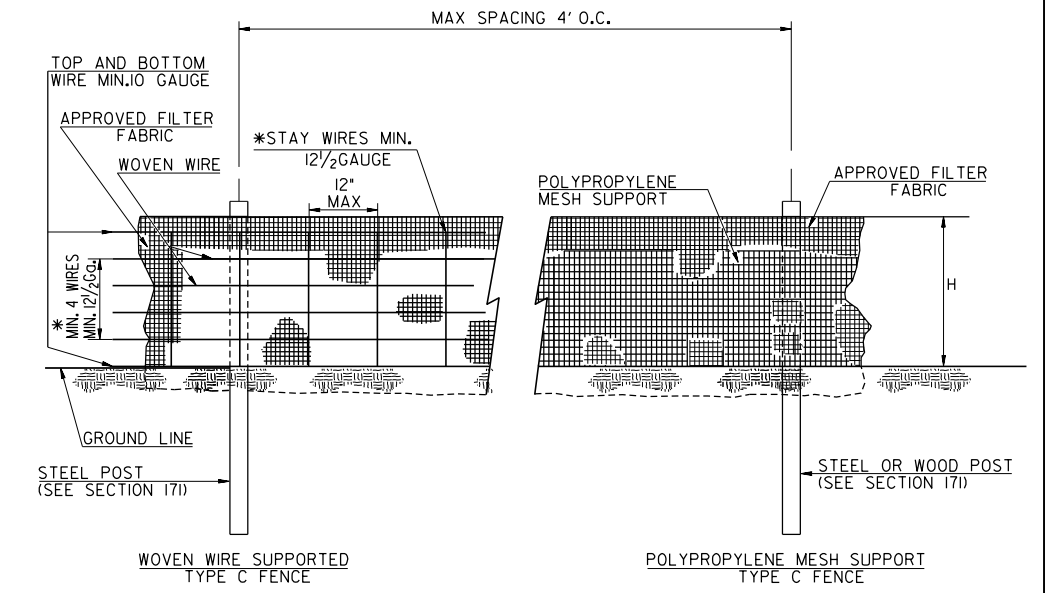
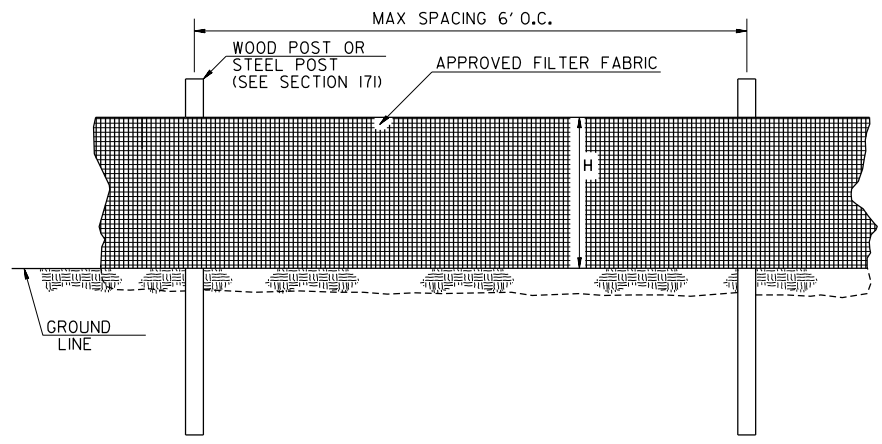
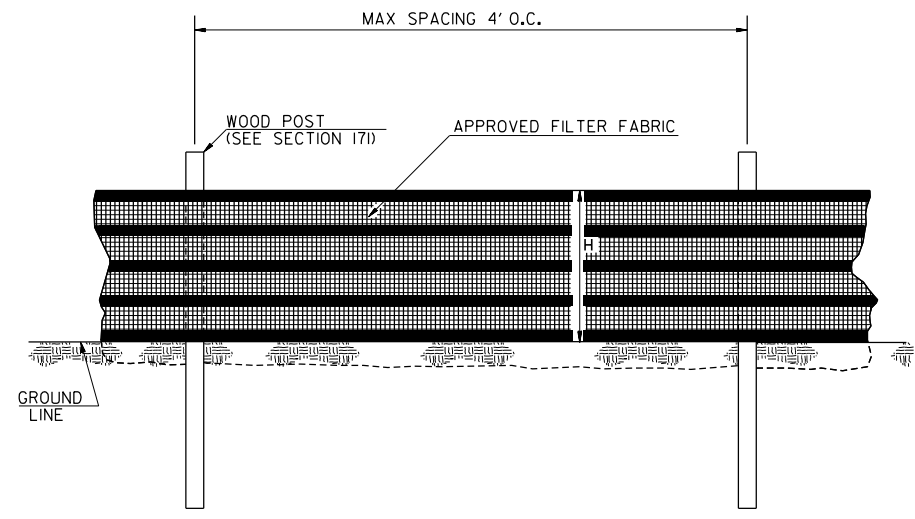
Keck+Wood
 COLLABORATION BY DESIGN
 3090 Premiere Parkway, Suite 200
 Duluth, GA 30097
 (678) 417-4000 keckwood.com



| REVISION DATES | |
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BMP LOCATION DETAILS
 HUGH HOWELL ROAD SIDEWALK
 CITY OF TUCKER

| | | |
|--------------|-------|-------------|
| CHECKED: | DATE: | DRAWING No. |
| BACKCHECKED: | DATE: | 54-0006 |
| CORRECTED: | DATE: | |
| VERIFIED: | DATE: | |



SINGLE ROW TYPE C SILT FENCE WITH HIGH TENSILE POLYPROPYLENE INTEGRATED SUPPORT WOVEN FABRIC

SINGLE ROW TYPE A SILT FENCE

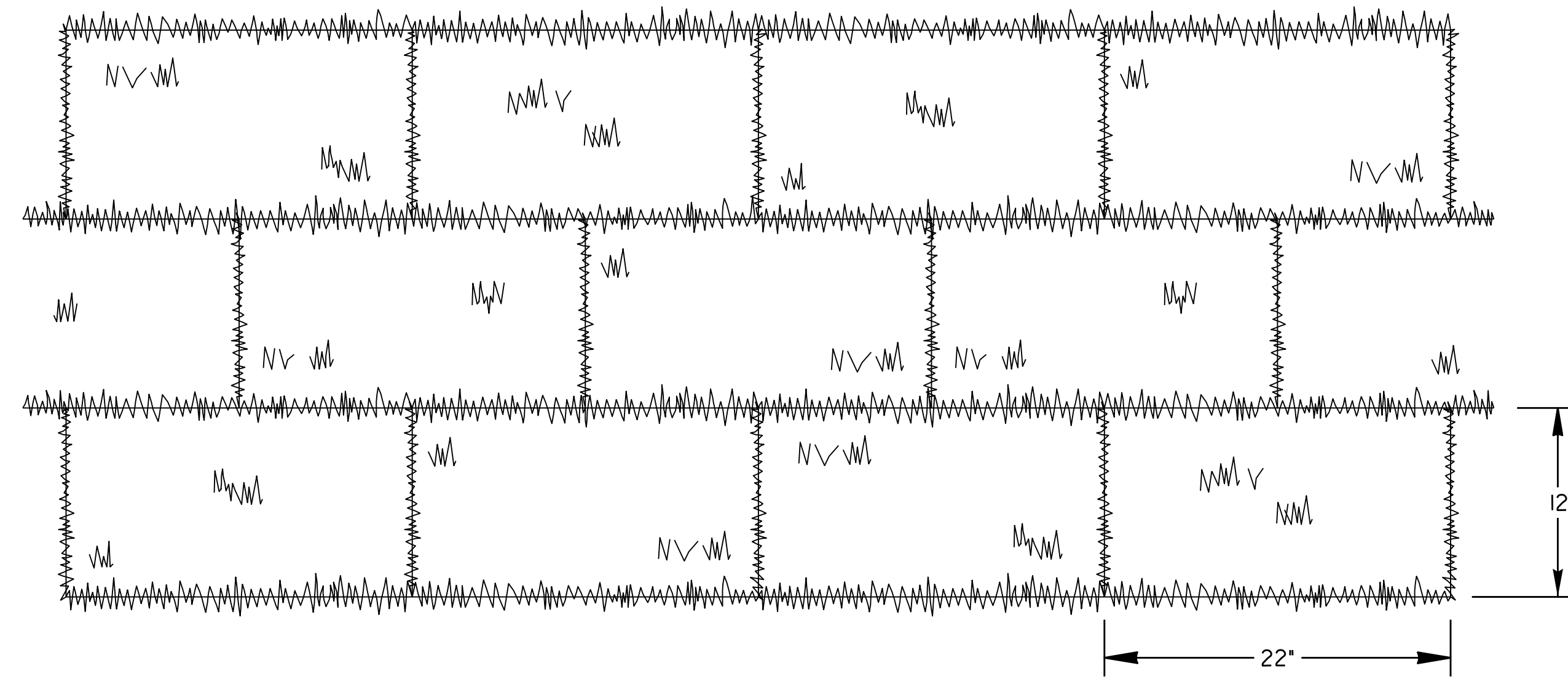
SINGLE ROW TYPE C SILT FENCE WITH WOVEN WIRE SUPPORT OR POLYPROPYLENE MESH SUPPORT

| FENCE TYPE | POST LENGTH | H | D | W* | TYPICAL USES |
|------------|-------------|-------|-------|-------|---|
| TYPE 'A' | 4 FT. | 2'-4" | 1'-6" | 3'-0" | |
| TYPE 'C' | 4 FT. | 2'-4" | 1'-6" | 3'-0" | AT BRIDGE END ROLLS, DOUBLE ROW ALONG STREAMS, WETLANDS AND ENVIRONMENTALLY SENSITIVE AREAS FOR USE OF THIS MATERIAL IN FABRIC CHECKDAMS SEE D-24D. |

- NOTES:
1. WIRE STAPLES SHALL BE AT LEAST 17 GAUGE, WITH LEGS AT LEAST 1/2 INCHES LONG AND A CROWN AT LEAST 3/4 INCHES WIDE. NAILS SHALL BE AT LEAST 14 GAUGE, 1 INCH LONG, WITH BUTTON HEADS AT LEAST 3/4 INCHES WIDE.
 2. SEE SECTION 171 FOR PLACEMENT OF NAILS OR STAPLES FOR TYPE A AND TYPE C FENCES.
 3. THE VERTICAL WIRES FOR THE WOVEN WIRE SUPPORT FENCE SHALL HAVE A MAXIMUM SPACING OF 12 INCHES. THE TOP AND BOTTOM WIRES SHALL BE AT LEAST 10 GAUGE AND ALL OTHER WIRES SHALL BE AT LEAST 12 1/2 GAUGE.
 4. TEMPORARY SILT FENCE INSTALLATION IS DIFFERENT THAN THE SILT RETENTION BARRIER INSTALLATION.
 5. SEE SECTION 171 FOR SILT FENCE SPECIFICATIONS.
 6. SEE SECTION 894 FOR FENCING SPECIFICATIONS.
 7. SEE OPL-36 FOR A LIST OF APPROVED SILT FENCE FABRIC.
 8. TEMPORARY SILT FENCE SHALL NOT BE PLACED WITHIN STATE WATERS UNLESS PERMITTED.

| | |
|---|------------------------|
| DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA | |
| CONSTRUCTION DETAIL | |
| TEMPORARY SILT FENCE | |
| AL ADDED HIGH TENSILE POLYPROPYLENE INTEGRATED FABRIC 09-2022 | DATE REVISION BY |
| JANUARY 2011 NO SCALE | |
| NUMBER D-24A 1 OF 4 | |

SOD LAYOUT

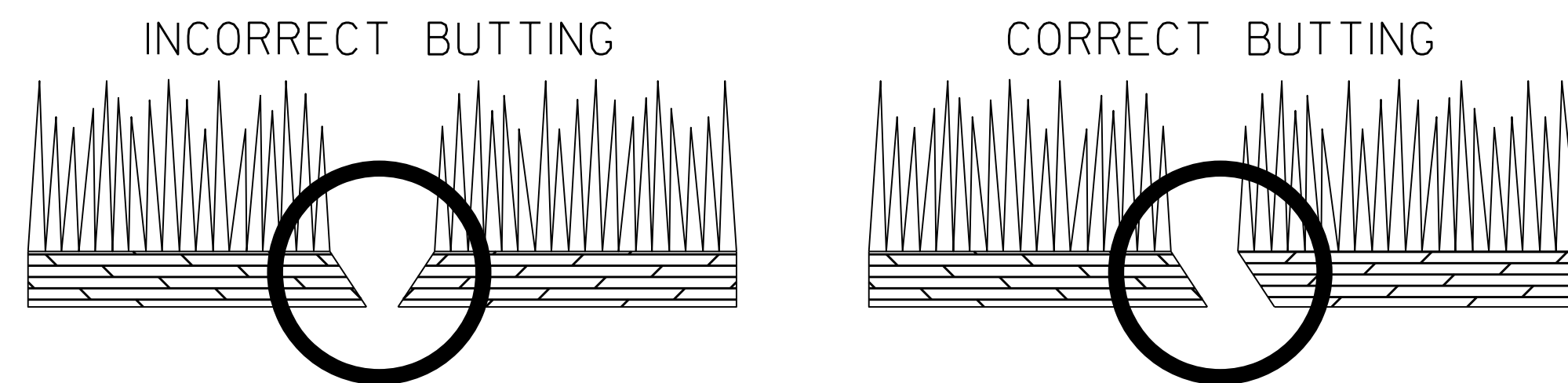


NOTE: SOD MAY BE EITHER 12" WIDE BY 22" LONG BLOCKS OR 21" WIDE BY 52" LONG ROLLS.

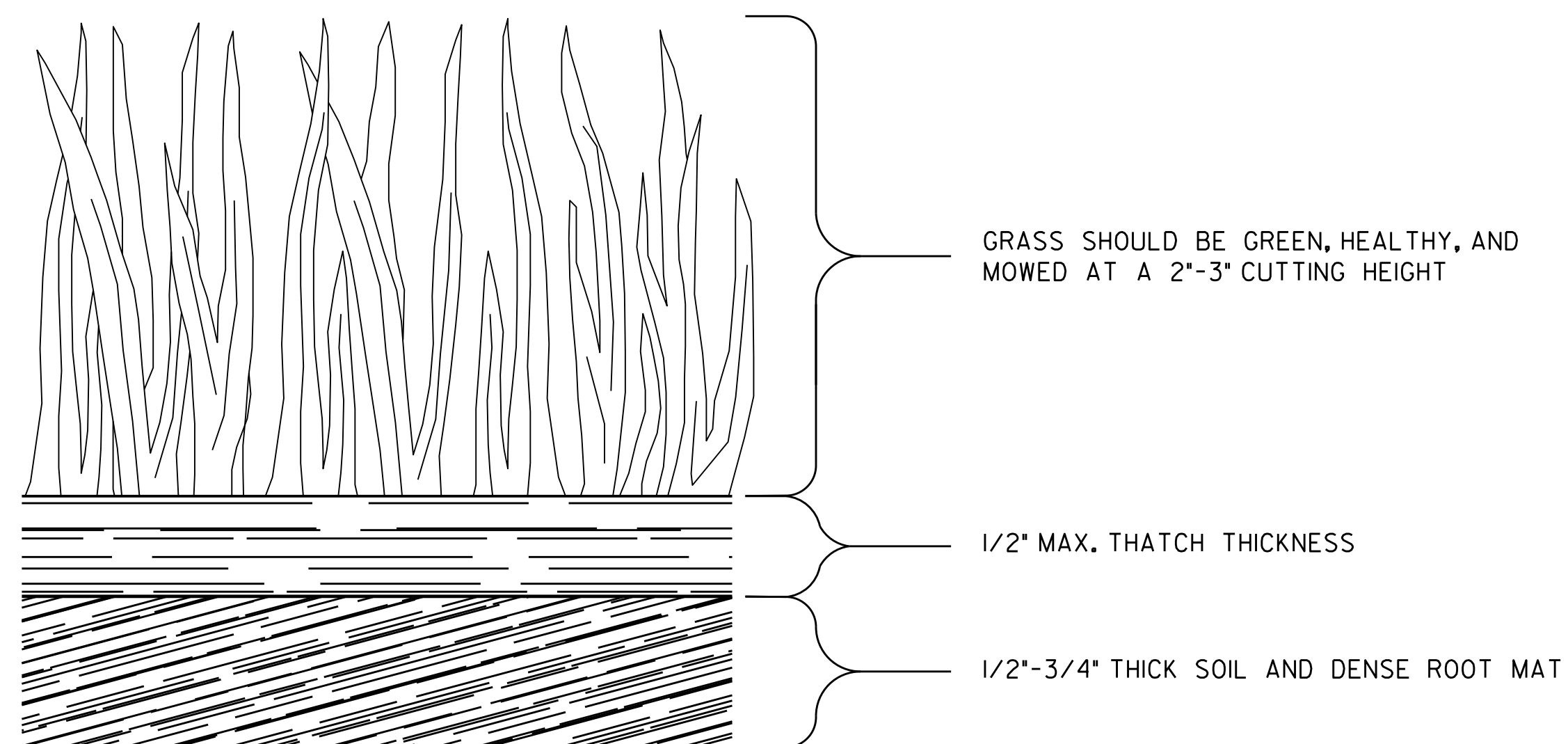
GENERAL NOTES:

1. SOD SHALL MEET SECTIONS 700 AND 890 OF THE STANDARD SPECIFICATIONS AND SUPPLEMENTS THERETO. SOD SHALL BE CUT INTO 12"Wx22"L BLOCKS OR 21"Wx52"L ROLLS.
2. PLACE SOD IN A STAGGERED PATTERN ENSURING FIRM CONTACT WITH THE SOIL. BUTT THE STRIPS TIGHTLY AGAINST EACH OTHER WITH THE AUTOMATIC SOD CUTTER ANGLES CORRECTLY MATCHED WITHOUT SPACES OR OVERLAP.
3. PLACE THE LONG SIDE OF SOD PERPENDICULAR TO DRAINAGE FLOW IF INSTALLED IN DITCHES.
4. STAKE SOD PLACED IN DITCHES OR SLOPES STEEPER THAN 2:1 OR ANY OTHER AREAS WHERE SOD SLIPPING MAY OCCUR. USE WOOD STAKES THAT ARE A MINIMUM OF 8" LONG AND A MAXIMUM OF 1" WIDE. DRIVE STAKES FLUSH WITH THE TOP OF SOD AND USE A MINIMUM OF 8 STAKES PER SQUARE YARD TO HOLD SOD IN PLACE.
5. ROLL SOD IMMEDIATELY TO ACHIEVE FIRM CONTACT WITH THE SOIL.
6. WATER THE SOD IMMEDIATELY AFTER INSTALLATION AND WATER TO A DEPTH OF 4" AS NEEDED.
7. MOW ESTABLISHED SOD TO A HEIGHT NOT LESS THAN 2"-3" AS NECESSARY.

ABUTTING SOD



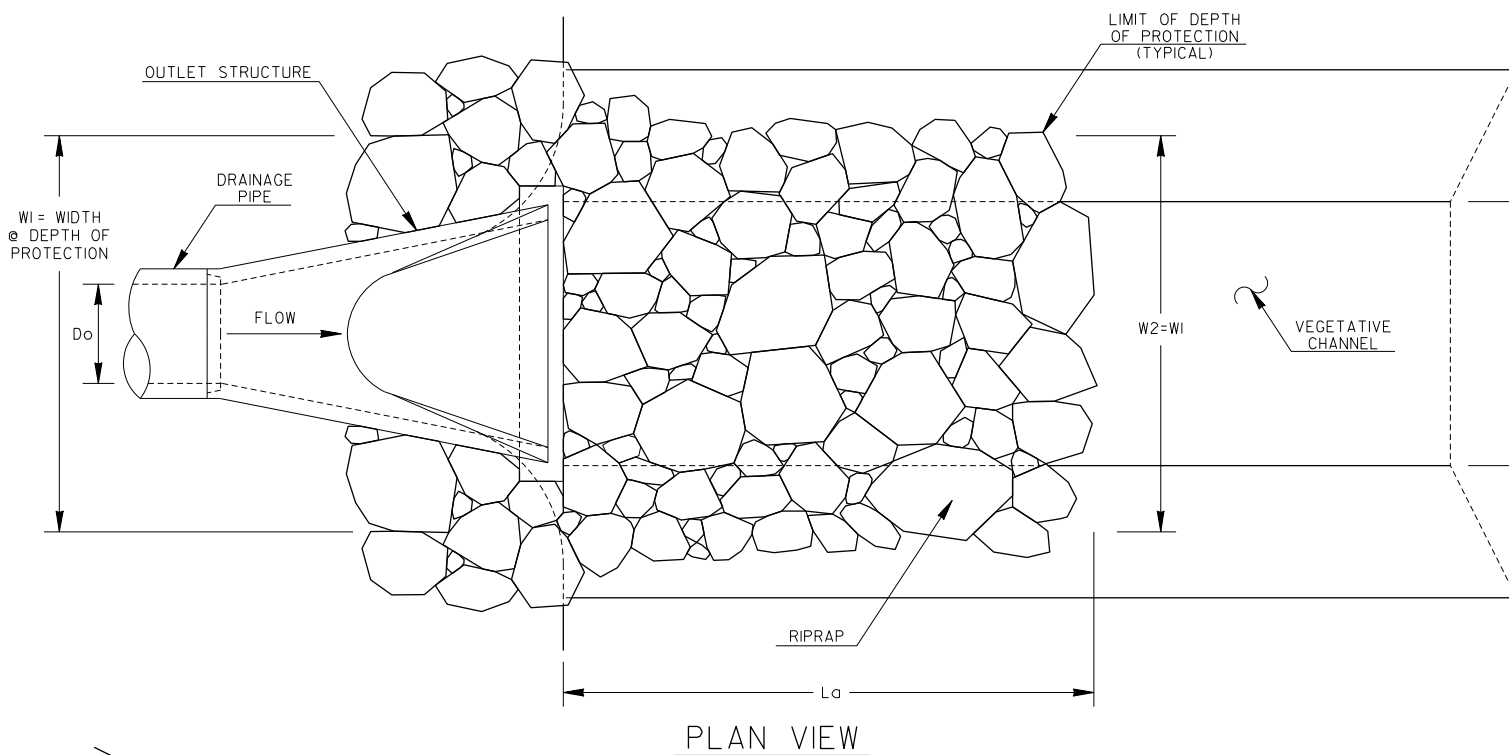
SOD APPEARANCE



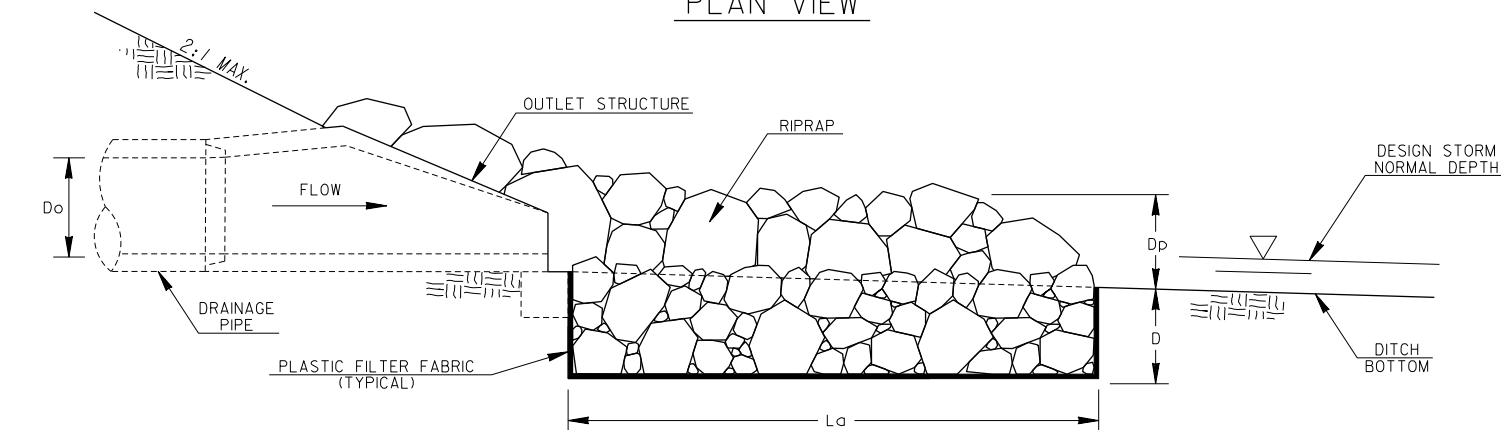
PAY ITEM:
700-9300 SOD (SY)

| | | | |
|----|----------|--|-----------|
| | DATE | DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA | |
| | REVISION | CONSTRUCTION DETAILS SOD INSTALLATION | |
| | | NO SCALE | 4-22-2016 |
| BY | DESIGNED | NUMBER | |
| | DRAWN | D-54 | |
| | TRACED | | |
| | CHECKED | | |

OUTLET PARALLEL TO WELL-DEFINED CHANNEL



PLAN VIEW



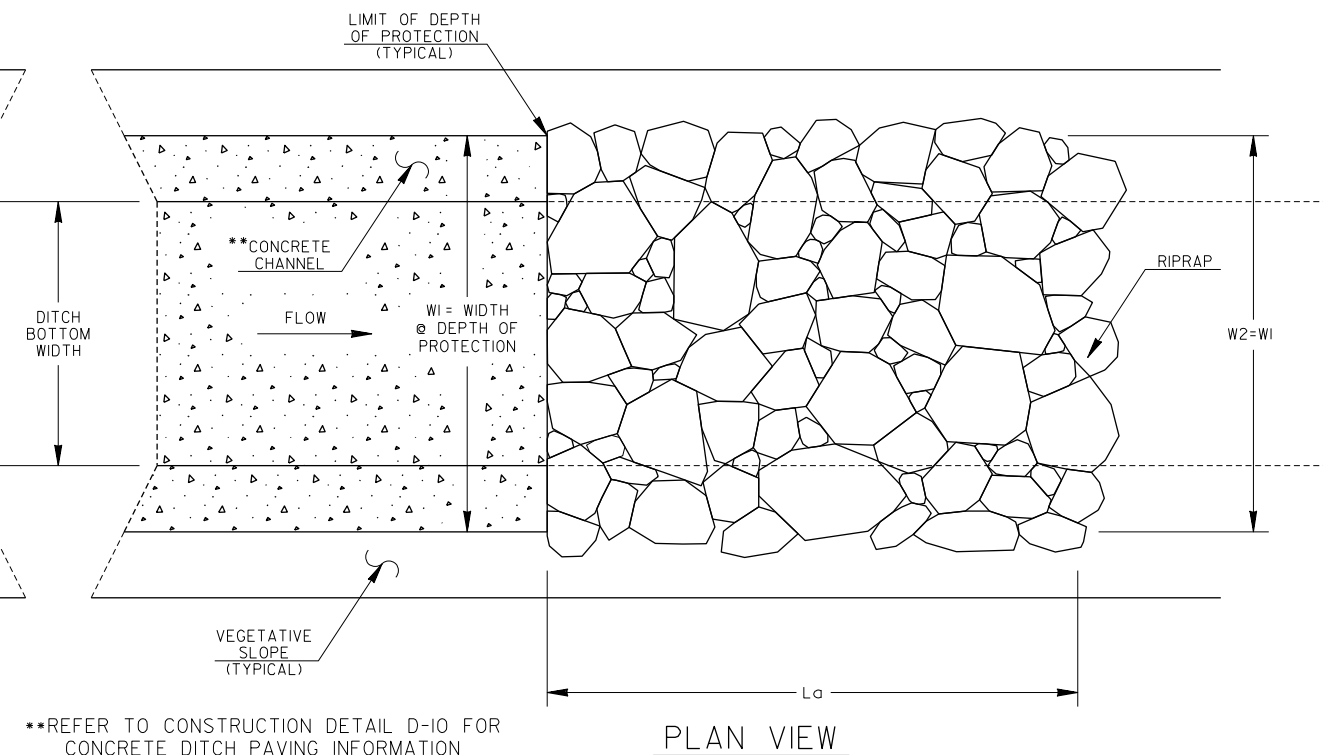
PROFILE VIEW

GENERAL NOTES:

- RIPRAP OUTLET PROTECTION SHOULD BE USED TO REDUCE A DRAINAGE STRUCTURE'S DISCHARGE VELOCITY. RIPRAP OUTLET PROTECTION IS SHOWN FOR GEORGIA STANDARD I20, BUT IS INSTALLED SIMILARLY FOR OTHER DRAINAGE OUTLET STRUCTURES. RIPRAP OUTLET PROTECTION IS SHOWN FOR A CONCRETE DITCH, BUT IS INSTALLED SIMILARLY TO TRANSITION FROM OTHER CHANNEL LININGS.
- RIPRAP OUTLET PROTECTION SHALL BE DESIGNED IN ACCORDANCE WITH THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA". THE DESIGNER SHALL PROVIDE THE FOLLOWING IN THE PLANS: PIPE DIAMETER (Do), FLOW RATE OF DESIGN STORM (Q), VELOCITY (V), TAILWATER CONDITION (Tw), APRON LENGTH (La), APRON WIDTH AT DRAINAGE STRUCTURE (W1), APRON WIDTH DOWNSTREAM (W2), AVERAGE STONE DIAMETER (d50), INSTALLATION DEPTH (D), AND TYPE OF RIPRAP WITH QUANTITY.

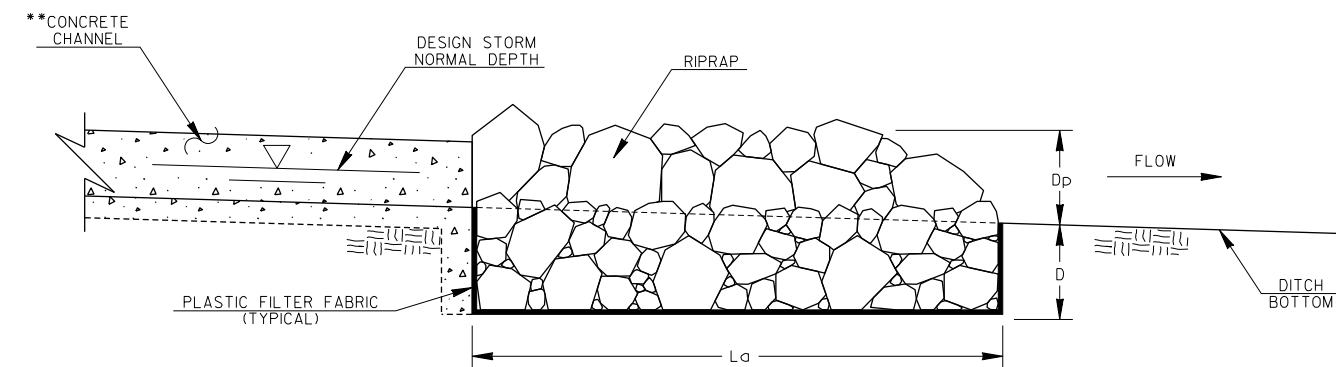
THE MINIMUM DESIGN FOR RIPRAP OUTLET PROTECTION SHALL BE THE 25-YEAR STORM EVENT, BUT LARGER STORMS ARE RECOMMENDED.
- THE APRON WIDTHS SHALL BE THE SAME WHEN THE DRAINAGE STRUCTURE DISCHARGES PARALLEL INTO A WELL-DEFINED CHANNEL. THE APRON WIDTHS IN THIS CASE SHALL REPRESENT THE WIDTH AT THE DEPTH OF PROTECTION. THE RIPRAP SHALL BE INSTALLED TO THE TOP OF CHANNEL OR 1-FOOT ABOVE THE NORMAL DEPTH OF THE CHANNEL'S DESIGN STORM (WHICHEVER IS LESS). THE DESIGNER SHALL PROVIDE THE DEPTH OF PROTECTION (Dp) IF THE RIPRAP SHOULD NOT BE INSTALLED TO THE TOP OF THE CHANNEL. RIPRAP SHOULD ALSO BE INSTALLED TO ARMOR CHANNEL CORNER AT THE OUTLET STRUCTURE.
- IF THE OUTLET HYDRAULICS REQUIRE A d50 < 0.70 FEET, TYPE-3 RIPRAP MAY BE USED.
IF THE OUTLET HYDRAULICS REQUIRE A d50 < 1.20 FEET, TYPE-1 RIPRAP SHOULD BE USED.
IF THE OUTLET HYDRAULICS REQUIRE A d50 > 1.20 FEET, THE DESIGNER SHALL DESIGN AND PROVIDE A SPECIAL DETAIL FOR APPROPRIATE OUTLET PROTECTION.
- PLASTIC FILTER FABRIC IS REQUIRED UNDERNEATH RIPRAP APRON.
- PAYMENT FOR RIPRAP SHALL BE MEASURED IN SQUARE YARDS FOR SPECIFIED INSTALLATION DEPTH. PAYMENT FOR PLASTIC FILTER FABRIC SHALL BE MEASURED IN SQUARE YARDS CONSISTENT WITH RIPRAP QUANTITY AND PAID FOR SEPARATELY.

CONCRETE CHANNEL TO RIPRAP TRANSITION



PLAN VIEW

**REFER TO CONSTRUCTION DETAIL D-10 FOR CONCRETE DITCH PAVING INFORMATION



PROFILE VIEW

- Do = PIPE DIAMETER
- Q = DESIGN STORM FLOW RATE
- V = DESIGN STORM VELOCITY
- Tw = TAILWATER CONDITION/DESIGN STORM NORMAL DEPTH
- La = APRON LENGTH
- W1 = APRON WIDTH UPSTREAM AT DEPTH OF PROTECTION
- W2 = APRON WIDTH DOWNSTREAM AT DEPTH OF PROTECTION
- d50 = AVERAGE STONE DIAMETER
- D = INSTALLATION DEPTH
- Dp = DEPTH OF PROTECTION

| RIPRAP TYPE | REQUIRED d50 (FT) | MIN. DEPTH "D" (IN) |
|-------------|-------------------|---------------------|
| 1 | ≤1.20 | 36 |
| 3 | ≤0.67 | 18 |

| | | | |
|----------|--|--|-----------|
| DATE | | DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA | |
| REVISION | | CONSTRUCTION DETAILS | |
| | | RIPRAP OUTLET PROTECTION (SHEET 2 OF 2) | |
| | | NO SCALE | 4-22-2016 |
| BY | DESIGNED <u>DLE</u> DRAWN <u>DLE</u> TRACED _____ CHECKED _____ | NUMBER D-55B | |

Request for Taxpayer Identification Number and Certification

**Give Form to the
requester. Do not
send to the IRS.**

▶ Go to www.irs.gov/FormW9 for instructions and the latest information.

Print or type.
See Specific Instructions on page 3.

| | | | | | | | | | | | | | | | | | | | | |
|---|--|--|--|---------------------------------------|---------------------------------------|--|--|--|--|--|---|--|--|--|--|---|--|--|--|--|
| 1 Name (as shown on your income tax return). Name is required on this line; do not leave this line blank. | | | | | | | | | | | | | | | | | | | | |
| 2 Business name/disregarded entity name, if different from above | | | | | | | | | | | | | | | | | | | | |
| 3 Check appropriate box for federal tax classification of the person whose name is entered on line 1. Check only one of the following seven boxes. <table style="width: 100%; margin-top: 5px;"> <tr> <td><input type="checkbox"/> Individual/sole proprietor or single-member LLC</td> <td><input type="checkbox"/> C Corporation</td> <td><input type="checkbox"/> S Corporation</td> <td><input type="checkbox"/> Partnership</td> <td><input type="checkbox"/> Trust/estate</td> </tr> <tr> <td colspan="5"> <input type="checkbox"/> Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=Partnership) ▶ _____ </td> </tr> <tr> <td colspan="5"> Note: Check the appropriate box in the line above for the tax classification of the single-member owner. Do not check LLC if the LLC is classified as a single-member LLC that is disregarded from the owner unless the owner of the LLC is another LLC that is not disregarded from the owner for U.S. federal tax purposes. Otherwise, a single-member LLC that is disregarded from the owner should check the appropriate box for the tax classification of its owner. </td> </tr> <tr> <td colspan="5"> <input type="checkbox"/> Other (see instructions) ▶ _____ </td> </tr> </table> | <input type="checkbox"/> Individual/sole proprietor or single-member LLC | <input type="checkbox"/> C Corporation | <input type="checkbox"/> S Corporation | <input type="checkbox"/> Partnership | <input type="checkbox"/> Trust/estate | <input type="checkbox"/> Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=Partnership) ▶ _____ | | | | | Note: Check the appropriate box in the line above for the tax classification of the single-member owner. Do not check LLC if the LLC is classified as a single-member LLC that is disregarded from the owner unless the owner of the LLC is another LLC that is not disregarded from the owner for U.S. federal tax purposes. Otherwise, a single-member LLC that is disregarded from the owner should check the appropriate box for the tax classification of its owner. | | | | | <input type="checkbox"/> Other (see instructions) ▶ _____ | | | | |
| <input type="checkbox"/> Individual/sole proprietor or single-member LLC | <input type="checkbox"/> C Corporation | <input type="checkbox"/> S Corporation | <input type="checkbox"/> Partnership | <input type="checkbox"/> Trust/estate | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=Partnership) ▶ _____ | | | | | | | | | | | | | | | | | | | | |
| Note: Check the appropriate box in the line above for the tax classification of the single-member owner. Do not check LLC if the LLC is classified as a single-member LLC that is disregarded from the owner unless the owner of the LLC is another LLC that is not disregarded from the owner for U.S. federal tax purposes. Otherwise, a single-member LLC that is disregarded from the owner should check the appropriate box for the tax classification of its owner. | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Other (see instructions) ▶ _____ | | | | | | | | | | | | | | | | | | | | |
| 4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3): Exempt payee code (if any) _____ Exemption from FATCA reporting code (if any) _____ <i>(Applies to accounts maintained outside the U.S.)</i> | | | | | | | | | | | | | | | | | | | | |
| 5 Address (number, street, and apt. or suite no.) See instructions. | | | | | | | | | | | | | | | | | | | | |
| 6 City, state, and ZIP code | | | | | | | | | | | | | | | | | | | | |
| 7 List account number(s) here (optional) | | | | | | | | | | | | | | | | | | | | |
| Requester's name and address (optional) | | | | | | | | | | | | | | | | | | | | |

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the instructions for Part I, later. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN*, later.

Note: If the account is in more than one name, see the instructions for line 1. Also see *What Name and Number To Give the Requester* for guidelines on whose number to enter.

| | | | | | | | | | | | | | | | | |
|--|--|--|--|---|---|--|--|---|---|---|---|--|--|--|--|--|
| Social security number | | | | | | | | | | | | | | | | |
| <table style="width: 100%; text-align: center;"> <tr> <td style="width: 25px; height: 20px;"> </td> <td style="width: 25px; height: 20px;"> </td> <td style="width: 25px; height: 20px;"> </td> <td style="width: 25px; height: 20px;"> </td> <td style="width: 20px; height: 20px;">-</td> <td style="width: 25px; height: 20px;"> </td> <td style="width: 25px; height: 20px;"> </td> <td style="width: 25px; height: 20px;"> </td> <td style="width: 20px; height: 20px;">-</td> <td style="width: 25px; height: 20px;"> </td> <td style="width: 25px; height: 20px;"> </td> <td style="width: 25px; height: 20px;"> </td> </tr> </table> | | | | | - | | | | - | | | | | | | |
| | | | | - | | | | - | | | | | | | | |
| or | | | | | | | | | | | | | | | | |
| Employer identification number | | | | | | | | | | | | | | | | |
| <table style="width: 100%; text-align: center;"> <tr> <td style="width: 25px; height: 20px;"> </td> <td style="width: 25px; height: 20px;"> </td> <td style="width: 25px; height: 20px;"> </td> <td style="width: 25px; height: 20px;"> </td> <td style="width: 25px; height: 20px;"> </td> <td style="width: 25px; height: 20px;"> </td> <td style="width: 25px; height: 20px;"> </td> <td style="width: 25px; height: 20px;"> </td> <td style="width: 25px; height: 20px;"> </td> <td style="width: 25px; height: 20px;"> </td> <td style="width: 20px; height: 20px;">-</td> <td style="width: 25px; height: 20px;"> </td> <td style="width: 25px; height: 20px;"> </td> <td style="width: 25px; height: 20px;"> </td> <td style="width: 25px; height: 20px;"> </td> <td style="width: 25px; height: 20px;"> </td> </tr> </table> | | | | | | | | | | | - | | | | | |
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Part II Certification

Under penalties of perjury, I certify that:

1. The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
2. I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
3. I am a U.S. citizen or other U.S. person (defined below); and
4. The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions for Part II, later.

Sign Here

Signature of U.S. person ▶

Date ▶

General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Future developments. For the latest information about developments related to Form W-9 and its instructions, such as legislation enacted after they were published, go to www.irs.gov/FormW9.

Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following.

- Form 1099-INT (interest earned or paid)

- Form 1099-DIV (dividends, including those from stocks or mutual funds)
- Form 1099-MISC (various types of income, prizes, awards, or gross proceeds)
- Form 1099-B (stock or mutual fund sales and certain other transactions by brokers)
- Form 1099-S (proceeds from real estate transactions)
- Form 1099-K (merchant card and third party network transactions)
- Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-T (tuition)
- Form 1099-C (canceled debt)
- Form 1099-A (acquisition or abandonment of secured property)

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.

If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See What is backup withholding, later.



GEORGIA SECURITY AND IMMIGRATION COMPLIANCE ACT AFFIDAVIT

GEORGIA E-Verify and Public Contracts: The Georgia E-Verify law requires contractors and all sub-contractors on Georgia public contract (contracts with a government agency) for the physical performance of services over \$2,499 in value to enroll in E-Verify, regardless of the number of employees.

| | |
|--|--|
| Contractor Name: | |
| Solicitation/Bid number or Project Description: | |

By executing this affidavit, the undersigned contractor verifies its compliance with O.C.G.A. § 13-10-91, stating affirmatively that the individual, entity or corporation which is engaged in the physical performance of services under a contract on behalf of the City of Tucker, Georgia has registered with, is authorized to use and uses the federal work authorization program commonly known as E-Verify, or any subsequent replacement program, in accordance with the applicable provisions and deadlines established in O.C.G.A. § 13-10-91.

Furthermore, the undersigned contractor will continue to use the federal work authorization program throughout the contract period as required by O.C.G.A. § 13-10-91(b) and the undersigned contractor will contract for the physical performance of services in satisfaction of such contract only with subcontractors who present and affidavit to the contractor with the information required by O.C.G.A. § 13-10-91(b). Contractor hereby attests that its federal work authorization user identification number and date of authorization are as follows:

Federal Work Authorization User Identification Number
(EEV/E-Verify Company Identification Number)

Date of Authorization

Name of Contractor

I hereby declare under penalty of perjury that the foregoing is true and correct

Printed Name (of Authorized Officer or Agent of Contractor)

Title (of Authorized Officer or Agent of Contractor)

Signature (of Authorized Officer or Agent)

Date Signed

SUBSCRIBED AND SWORN BEFORE ME ON THIS THE

____ DAY OF _____, 20____

[NOTARY SEAL]

Notary Public

My Commission Expires: _____



GEORGIA SECURITY AND IMMIGRATION COMPLIANCE ACT AFFIDAVIT

GEORGIA E-Verify and Public Contracts: The Georgia E-Verify law requires contractors and all sub-contractors on Georgia public contract (contracts with a government agency) for the physical performance of services over \$2,499 in value to enroll in E-Verify, regardless of the number of employees.

| | |
|--|--|
| Contractor Name: | |
| Subcontractor's (Your) Name | |
| Solicitation/Bid number or Project Description: | |

By executing this affidavit, the undersigned subcontractor verifies its compliance with O.C.G.A. § 13-10-91, stating affirmatively that the individual, entity or corporation which is engaged in the physical performance of services under a contract on behalf of the City of Tucker, Georgia has registered with, is authorized to use and uses the federal work authorization program commonly known as E-Verify, or any subsequent replacement program, in accordance with the applicable provisions and deadlines established in O.C.G.A. § 13-10-91.

Furthermore, the undersigned subcontractor will continue to use the federal work authorization program throughout the contract period as required by O.C.G.A. § 13-10-91(b) and the undersigned subcontractor will contract for the physical performance of services in satisfaction of such contract only with sub-subcontractors who present and affidavit to the contractor with the information required by O.C.G.A. § 13-10-91(b). Subcontractor hereby attests that its federal work authorization user identification number and date of authorization are as follows:

Federal Work Authorization User Identification Number
(EEV/E-Verify Company Identification Number)

Date of Authorization

Name of Subcontractor

I hereby declare under penalty of perjury that the foregoing is true and correct

Printed Name (of Authorized Officer or Agent of Contractor)

Title (of Authorized Officer or Agent of Contractor)

Signature (of Authorized Officer or Agent)

Date Signed

SUBSCRIBED AND SWORN BEFORE ME ON THIS THE

____ DAY OF _____, 20____

Notary Public

[NOTARY SEAL]

My Commission Expires: _____



REFERENCES FORM: ITB #2024-013

BIDDERS MUST RETURN THIS FORM WHICH WILL BE ADDED TO SUBMITTED PROPOSAL
Please complete this form and return as part of your bid package when it is submitted.

Name of Bidder _____

REFERENCE #1

Contact Name: _____

Contact Number: _____

Brief Description of work provided: _____

REFERENCE #2

Contact Name: _____

Contact Number: _____

Brief Description of work provided: _____

REFERENCE #3

Contact Name: _____

Contact Number: _____

Brief Description of work provided: _____

Please complete and submit in bid package

BID BOND

KNOW ALL MEN BY THESE PRESENTS, THAT

(Name of Contractor) _____ at

(Address of Contractor) _____

(Corporation, Partnership and / or Individual) hereinafter called Principal, and

(Name of Surety) _____

(Address of Surety) _____

A corporation of the State of _____, and a surety authorized by law to do

business in the State of Georgia, hereinafter called Surety, are held, and firmly bound unto

(Name of Obligee) City of Tucker Georgia

(Address of Obligee) 1975 Lakeside Parkway, Suite 350, Tucker, Georgia 30084

Hereinafter referred to as Obligee, in the penal sum of _____ Dollars (\$ _____) in lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators and successors, jointly and severally, firmly by these presents.

WHEREAS, the Principal is about to submit, or has submitted, to the City of Tucker, Georgia, a proposal for furnishing materials, labor, and equipment for:

**ITB # 2024-013
HUGH HOWELL SIDEWALK CONSTRUCTION**

WHEREAS, the Principal desires to file this Bond in accordance with law in lieu of a certified Bidder's check otherwise required to accompany this Proposal.

NOW, THEREFORE, the conditions of this obligation are such that if the bid is accepted, the Principal shall within ten days after receipt of notification of the acceptance execute a Contract in accordance with the Bid and upon the terms, conditions, and prices set forth in the form and manner required by the City of Tucker, Georgia, and execute a sufficient and satisfactory Performance Bond and Payment Bond payable to the City of Tucker, Georgia, each in an amount of 100% of the total Contract Price, in form and with security satisfactory to said the City of Tucker, Georgia, and otherwise, to be and remain in full force and virtue in law; and the Surety shall, upon failure of the Principal to comply with any or all of the foregoing requirements within the time specified above, immediately pay to the City of Tucker, Georgia,

upon demand, the amount hereof in good and lawful money of the United States of America, not as a penalty, but as liquidated damages.

PROVIDED, FURTHER, that Principal and Surety agree and represent that this bond is executed pursuant, to and in accordance with the applicable provisions of the Official Code of Georgia Annotated, as Amended, including, but not limited to, O.C.G.A. § 13-10-20, et. Seg. And § 36- 91-50, et. Seg. and is intended to be and shall be constructed as a bond in compliance with the requirements thereof.

Signed, sealed, and dated this _____ day of _____ A.D., 20 ____.

ATTEST:

(Principal Secretary)

(Principal)

(SEAL)

BY: _____

(Witness to Principal)

(Address)

(Address)

(Surety)

ATTEST:

BY: _____
(Attorney-in-Fact) and Resident Agent

(Attorney-in-Fact)

(SEAL)

(Address)

(Witness as to Surety)

Contact Information Form

Please fill out this form with the appropriate contact information for your company.

Full Legal Name of Company: _____

Date: _____

Contractor Information:

Primary Contact Person: _____

Title: _____ Telephone Number: _____

E-mail Address: _____

Secondary Contact Person: _____

Title: _____ Telephone Number: _____

E-mail Address: _____

Preferred Contact for Administration: (i.e. Document Processing) (Choose one)

- Primary Contact Secondary Contact

Address: _____

City / State / Zip: _____

Mailing Address (If different than above): _____

City / State / Zip: _____

Federal Employee ID Number (FEIN): _____