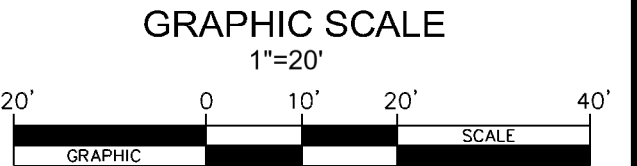
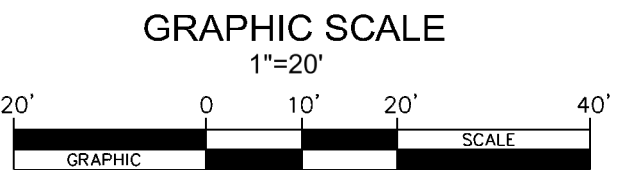
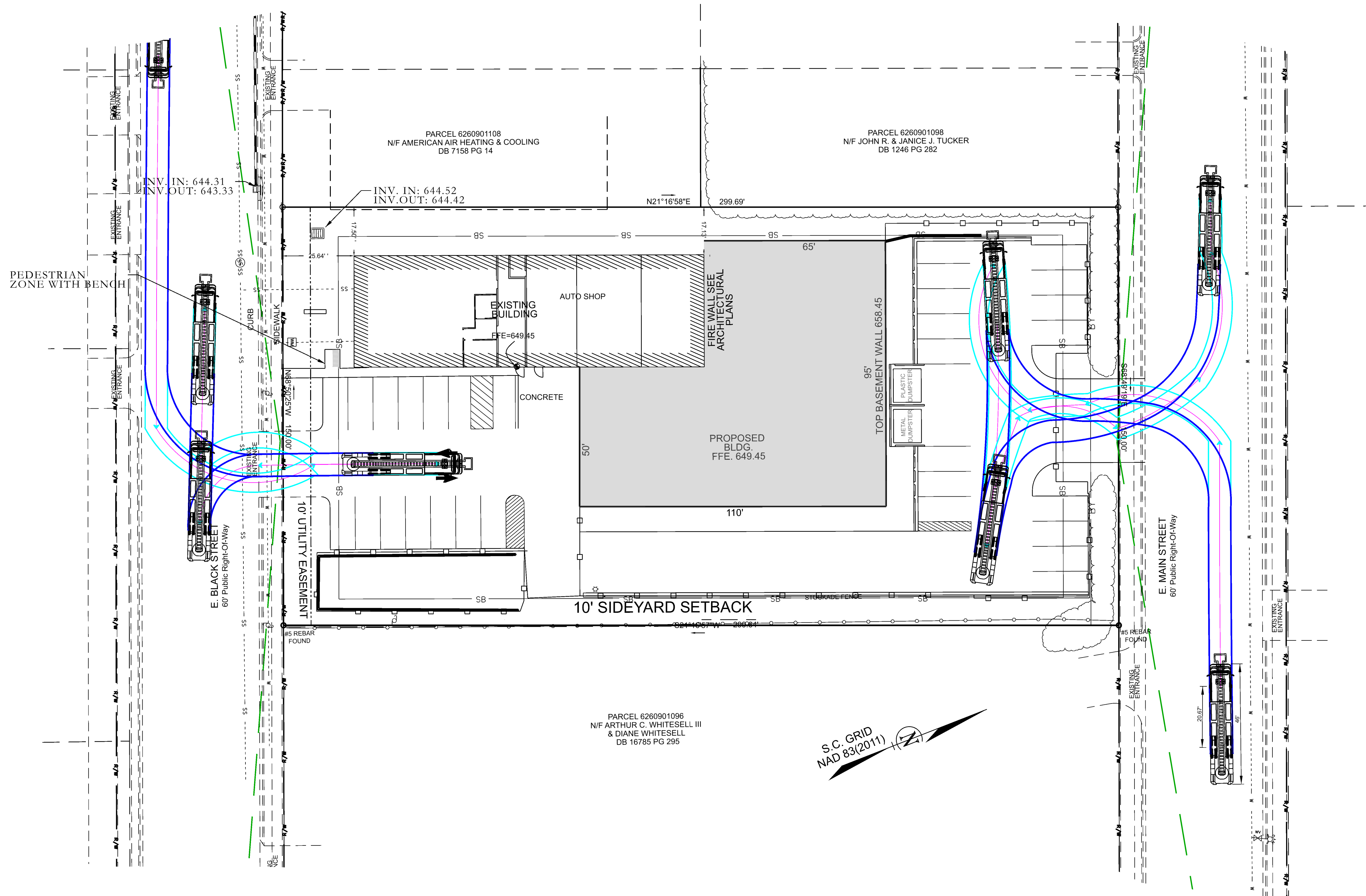
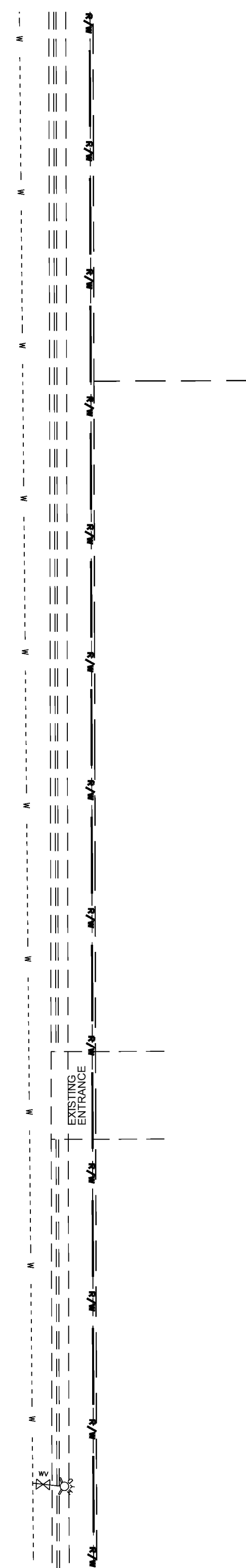


APPROVALS		PREPARED BY		SEALS		PROJECT		SHEET TITLE		NO.		DATE		REVISIONS		BY		SCALE: 1" = 20'			
Project Engr: _____ Drawn By: _____ Checked By: _____		 JOEL E. WOOD & ASSOCIATES PLANNING • ENGINEERING • MANAGEMENT				TOM'S BODY SHOP ADDITION		SITE PLAN										DATE: 1/31/2023			
ROCK HILL, SOUTH CAROLINA PREPARED FOR																JOB NO.: 230125					
TOM'S BODY SHOP																SHEET C300					
Review: _____ Bid: _____ Construction: _____		P.O. BOX 296 CLOVER, SC 29710 (803) 684-3390																			





APPROVALS		PREPARED BY		SEALS	PROJECT	SHEET TITLE	NO.	DATE	REVISIONS	BY	SCALE: 1" = 20'	
Project Engr: _____ Drawn By: _____ Checked By: _____		<div><div><div><div>W</div><div>JOEL E. WOOD & ASSOCIATES</div><div>PLANNING • ENGINEERING • MANAGEMENT</div></div><div>P.O. BOX 296 CLOVER, SC 29710</div><div>(803) 684-3390</div></div></div>		<div><div><div>SOUTH CAROLINA</div><div>JOEL E. WOOD</div><div>ASSOCIATES, P.C.</div><div>NO. 5762</div><div>ENGINEER</div><div>5/19/25</div><div>CERTIFICATE OF AUTHORIZATION</div></div><div><div>SOUTH CAROLINA</div><div>REG. PROFESSIONAL</div><div>NO. 5762</div><div>ENGINEER</div><div>JOEL E. WOOD</div></div></div>	TOM'S BODY SHOP ADDITION	FIRE TRUCK TURNING DIAGRAM						DATE: 1/31/2023
Review: _____ Bid: _____ Construction: _____					ROCK HILL, SOUTH CAROLINA PREPARED FOR						JOB NO.: 230125	
					TOM'S BODY SHOP						SHEET C302	

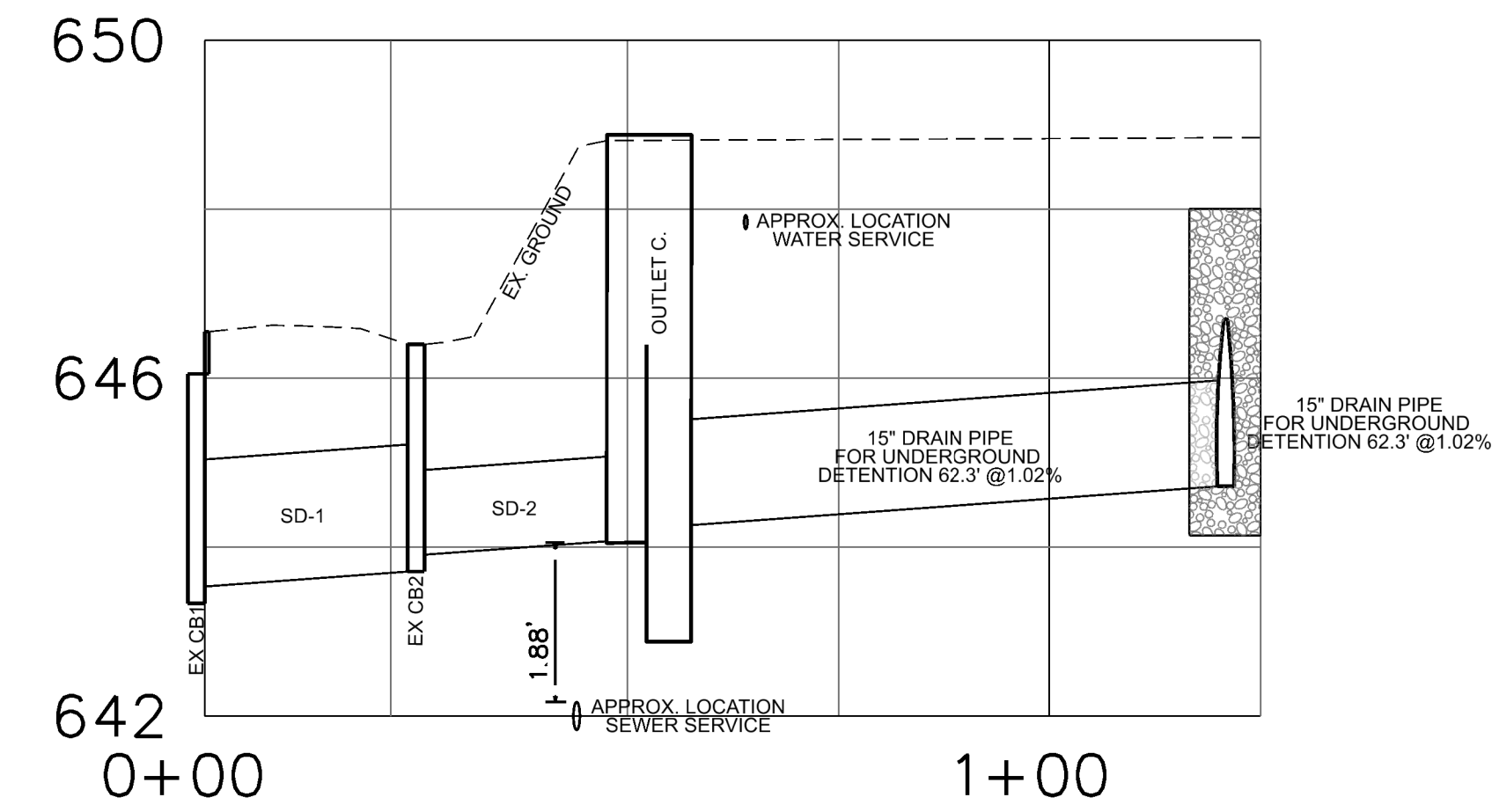


GRAPHIC SCALE
1"=20'

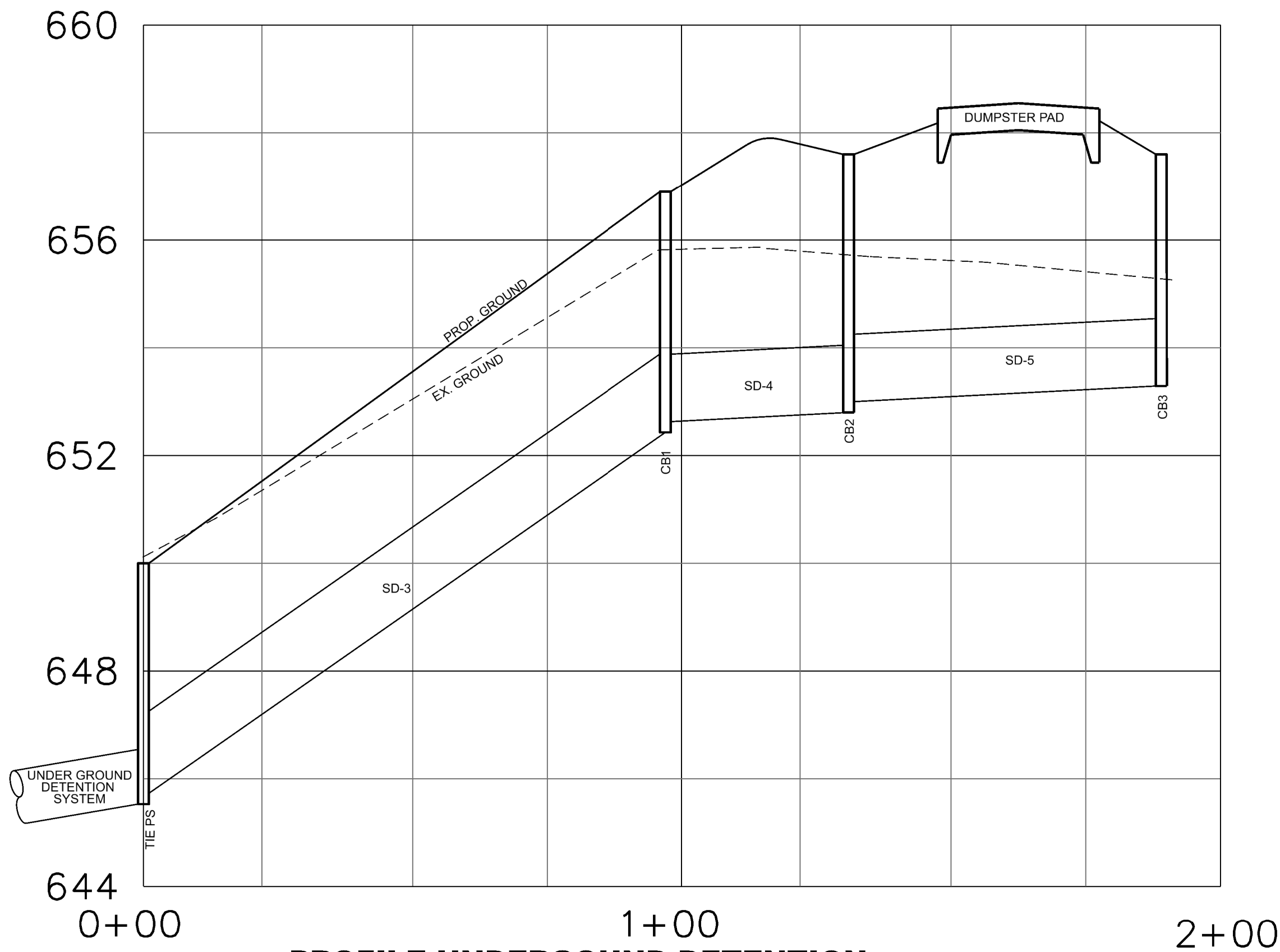
A horizontal graphic scale bar with alternating black and white segments. The bar is labeled with '20'' at the left end, '0' at the first segment boundary, '10'' at the second segment boundary, '20'' at the third segment boundary, and '40'' at the right end. The word 'GRAPHIC' is written in the first white segment, and 'SCALE' is written in the third white segment.

UTILITY PLAN

SCALE:	1" = 20'
DATE:	1/31/2023
JOB NO.:	230125
SHEET	C40

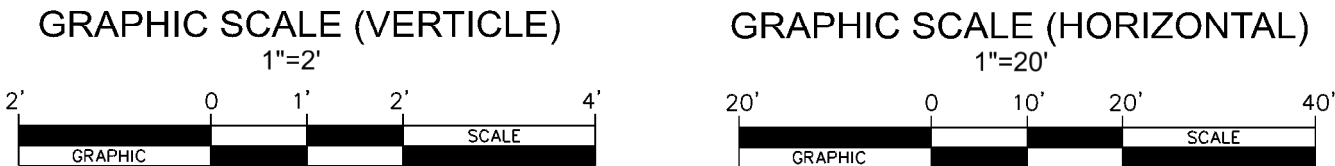


PROFILE EX. CB1 TO UNDERGROUND
DETENTION SYSTEM



PROFILE UNDERGROUND DETENTION
SYSTEM TO CB 3

DRAINAGE SYSTEM DATA TABLE										
MAIN LINE DRAINAGE STRUCTURES						MAIN LINE PIPING STRUCTURES				
DETAIL REF.	STRUCT.	INV. IN	INV. OUT		R/W ELEV. *	PIPE	SIZE	TYPE	LENGTH **	SLOPE
	EX CB1	643.60	643.33		646.05	SD-1	18"	HDPE	22'	0.5%
	EX CB 2	643.91	643.71		646.40	SD-2	2~12"	HDPE	22'	0.5%
	OUTLET C.	644.12	644.02		648.80					
	TIE PS		645.53		650.00	SD-3	15"	HDPE	97'	7.11%
	CB1	652.63	652.43		657.00	SD-4	15"	HDPE	34'	0.5%
	CB2	653.00	652.80		657.60	SD-5	15"	HDPE	58'	0.5%
	CB 3		653.29		657.60					



APPROVALS		PREPARED BY		SEALS		PROJECT		SHEET TITLE		NO.	DATE	REVISIONS	BY	SCALE: 1" = 20'
Project Engr: _____ Drawn By: _____ Checked By: _____		 <div>JOEL E. WOOD & ASSOCIATES</div> PLANNING • ENGINEERING • MANAGEMENT P.O. BOX 296 CLOVER, SC 29710 (803) 684-3390		TOM'S BODY SHOP ADDITION		UTILITY PLAN								DATE: 1/31/2023
Review: _____				ROCK HILL, SOUTH CAROLINA PREPARED FOR										JOB NO.: 230125
Bid: _____				TOM'S BODY SHOP										
Construction: _____														

- If necessary, slopes which exceed eight (8) feet should be stabilized with synthetic or vegetative mats, in addition to hydrosowing. It may be necessary to install temporary slope drains during construction. Temporary berms may be needed daily until the slopes are brought to grade.
- Stabilization measures shall be initiated as soon as possible and be practicable to the site where construction activities have permanently ceased, but in no case more than fourteen (14) days after work has ceased, except as stated below.
- Where stabilization by the 14th day of work is precluded by snow cover or frozen ground conditions, stabilization measures must be initiated as soon as practicable.
- Stabilization activities (portion of the site) must be temporally ceased, and earth-disturbance activities will be resumed within 14-days. Temporary stabilization measures do not have to be initiated on that portion of the site.
- All sediment and erosion control devices shall be inspected every seven (7) days and within 24 hours after each rainfall occurrence that exceeds one-half (0.5) inch. If the inspection reveals any deficiencies such as damages, inappropriately or incorrectly installed, or not operating effectively, then maintenance should be performed to the system as practicable, as reasonably possible within not less than 48 hours from the time of identification (preferably before the next storm event).
- Provide spill fence and/or other control devices as may be required to control soil erosion during utility construction. All disturbed areas shall be cleaned, graded and stabilized. Sedimenting basins shall be installed and maintained in accordance with the following: a) Sediment basins shall be constructed with a minimum water depth of two (2) feet. Water shall be filtered to remove any sediments before being pumped back into any stormwater systems, water courses and waters of the state (WOS) or waters of the United States (WU.S.).
- All erosion control devices shall be properly maintained during all phases of construction until the completion of all construction activities and all disturbed areas have been stabilized. Additional control devices may be required during construction in order to control erosion on and/or offsite stabilization. All temporary control devices shall be removed once construction is complete and the site is stabilized.
- The contractor must take necessary action to minimize the tracking of mud onto paved roadway from construction areas and the generation of dust. The contractor shall install and maintain appropriate control devices to prevent mud and dust from pavement as well as from construction areas.
- Residential subdivisions require erosion control features for infrastructure as well as for individual lot construction. Individual property owners shall follow these plans during construction or obtain approval of an individual plan in accordance with SC Reg. 7-2300.56, and SC100000.
- Temporary diversion berms and/or ditches will be provided as needed during construction to protect work areas from upslope runoff and/or divert sediment laden water to appropriate locations or stabilize slopes.
- All WOS or WU.S., streams, wetlands, are to be flagged or otherwise clearly marked and a line of force. A double row of slit fence to be installed in all areas where a 50-foot buffer cannot be maintained between the disturbed area and all WOS and a 130-foot minimum buffer for WUS. A 25-foot no disturbance zone shall be maintained between the last row of slit fence and all WOS and a minimum 50-foot no disturbance zone for WUS. Buffers and no disturbance zones shall be measured from top of creek banks.
- Litter, construction debris, oils, fuels and building products with significant potential for spill (such as stockpiles of freshly treated lumber) and construction chemicals that are not disposed of before work is completed shall be removed from the site and stored in storm water management facilities in storm water discharges.
- A copy of the SWPPP (including civil construction plans and supporting documents), inspections records, and rainfall data must be retained at the construction site or a nearby location accessible during normal business hours, from the date of commencement of construction activities to the date that final stabilization is reached.
- Stormwater management measures may be required for any exposed slope (30:1 or greater) where the following activities have permanently or temporarily ceased, and will not require for a period of seven (7) calendar days:
 - Minimize soil compaction, and, unless infeasible, preserve stockpile(s) of topsoil for reuse.
 - Avoid construction of the next storm event. Inspections must be conducted at: If implementation before the next storm event is impracticable, the situation must be reported in the SWPPP and alternative BMPs must be implemented as soon as reasonably possible.
- A Pre-Construction Conference must be held for each construction site with an approved On-Site SWPPP prior to the implementation of construction activities. For all construction projects, the SWPPP must be approved by the Department for approval of construction activities.
- Minimize the discharge of pollutants from equipment and vehicle washing, wheel wash water, and other wash waters. Wash waters must be treated in a sediment basin or alternative control that provides equivalent or better treatment prior to discharge.
- Minimize the discharge of pollutants from dewatering of trenches and excavated areas. These discharges are to be routed through appropriate BMPs (sediment basin, filter bay, BMP).
- Show BMP measures for concrete truck washout area, and add the following notes:
 - Concrete truck wash shall not typically be washed out on site. If concrete truck washout is permitted on site, coordinate location and BMPs with site inspector.
 - Do not dispose of concrete truck washout in stormwater management facilities, stormwater or on-site soil or pavement that carries storm water runoff.
 - Concrete truck washout shall be disposed of in accordance with the following:
 - designated area that will later be backfilled (shortly after)
 - designated area where concrete wash can be hardened and be disposed of as solid waste.
 - location that is not subject to water runoff, and more than 25 feet away from a storm drain, open ditch, or receiving water way.
 - pump excess concrete in concrete pump bag back into concrete pump truck.
 - The following discharges from sites are prohibited:
 - Wastewater from washout of concrete, unless managed by an appropriate control.
 - Washwater and/or cleanup of sludge, paint, paint compounds and other construction materials;
 - Fuels, oils, or other pollutants used in vehicle and equipment operation and maintenance; and - Soaps or solvents used in vehicle and equipment washing.
 - All chemical spills, oil spills, or fish kills must be reported to SCDEH Land & Waste Management Emergency Response Council at the 24-hour emergency response line at 888-551-5551.
- Temporary toilet facilities shall be provided for all construction workers and site visitors in accordance with 2006 International Plumbing Code General Regulations, Section 511. Portable facilities shall be placed on level ground and away from stormwater collection systems (ditches, catch basins, etc.). Disposal and handling of sanitary waste must comply with SCDEH requirements.
- Final grades for grassed and landscaped areas shall require a minimum of 4" of clean top soil, free of debris and contaminants, and preferably of native material.

The project is located at 1135 East Black Street in Rock Hill, South Carolina. The site is a 1.03 acres, mostly cleared, partially developed tract which has not been parceled from a larger tract of land . The total limits of disturbance for the project is 0.77(0.8) acres.

The contract will provide for the installation of initial storm water and sediment and erosion control (S&EC) best management practices (BMP's) to manage runoff and sediment during the construction contract. Offsite drainage characteristics should not change after site development. Site drainage will continue to flow off-site to the front of the lot. Sediment and erosion control measures include perimeter silt fence, a stone construction entrance to minimize tracking of mud onto existing public roads, and temporary and permanent seeding. Other standard BMP measures will be implemented to control sediment and soil erosion as needed during construction. All temporary S&EC measures will be removed once construction is complete and the sites are stabilized.





TYPE OF IMPERVIOUS AREA	NEW (SF)	EXISTING (SF)
ROOF	15,040	5,040
ASPHALT	7,490	500
CONCRETE	2606	2606
OTHER HARD SURFACE (GRAVEL, ETC.)	0	7,130
WATER SURFACE (WET POND)	0	0

NOTES :

ALL MATERIALS, CONSTRUCTION, AND PLANS ARE TO COMPLY WITH CITY OF ROCK HILL STANDARD SPECIFICATIONS AND DETAILS.

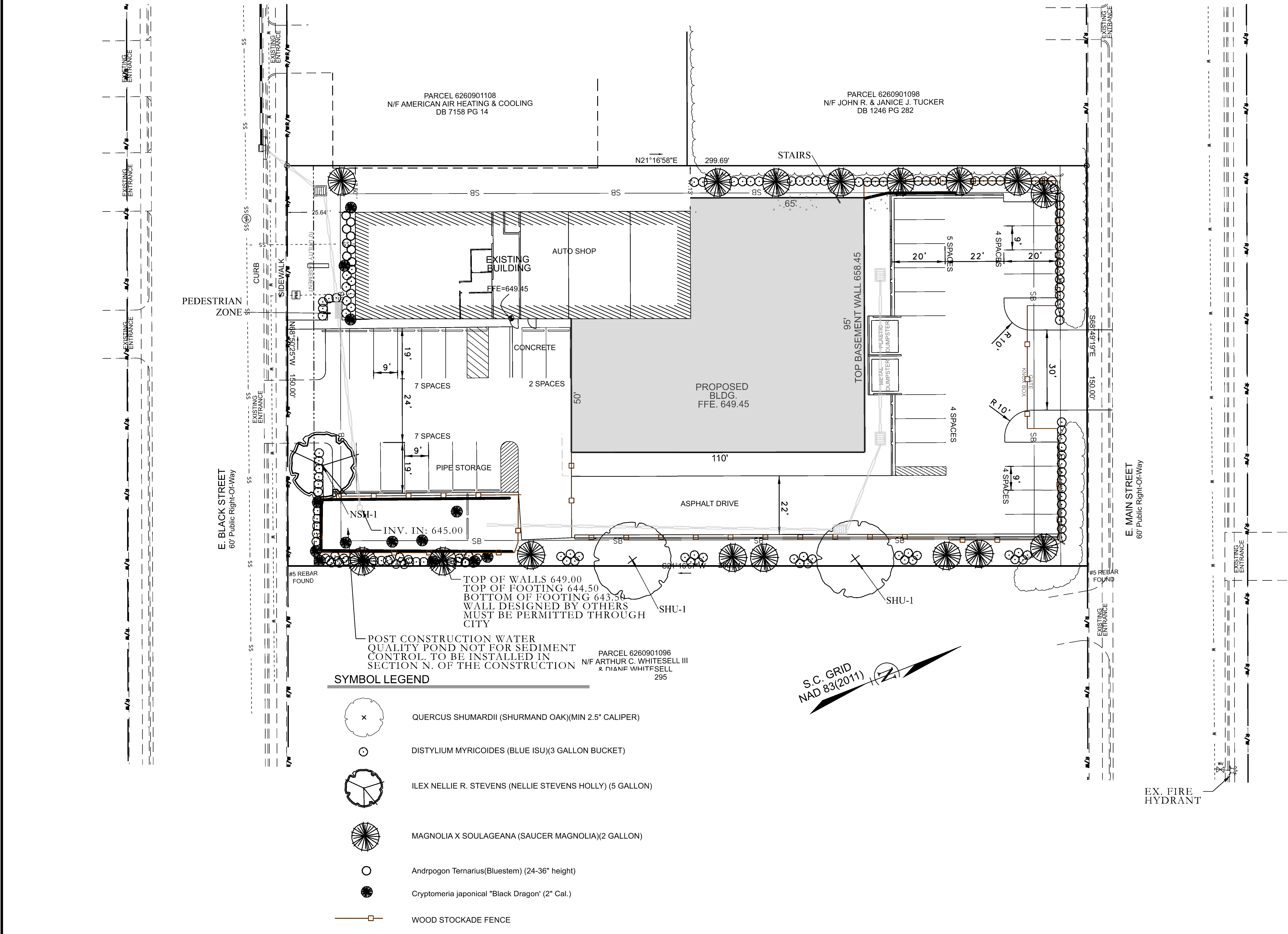
CONTACT PALMETTO UTILITY PROTECTION SERVICE (PUPS) @ 811
OR 888-721-7877, A MINIMUM OF 72 HOURS BEFORE DIGGING.

CONTRACTOR SHALL PROVIDE VERIFICATION TO THE DESIGN ENGINEER THAT ALL SEDIMENT BASIN AND/OR POST CONSTRUCTION STORMWATER MITIGATION CONFIGURATION, INCLUDING OUTLET STRUCTURE ELEVATIONS, DAM ELEVATIONS, SPILLWAY ELEVATIONS AND BASIN VOLUMES ARE IN ACCORDANCE WITH APPROVED DESIGN. IF BASIN CONFIGURATION DOES NOT MEET THE INTENT OF THE APPROVED DESIGN, THEN THE BASIN FACILITY SHALL BE CORRECTED TO MEET COMPLIANCE OR A NEW REVISED ANALYSIS MUST BE SUBMITTED TO CRH DEVELOPMENT SERVICES INFRASTRUCTURE FOR REVIEW AND APPROVAL.

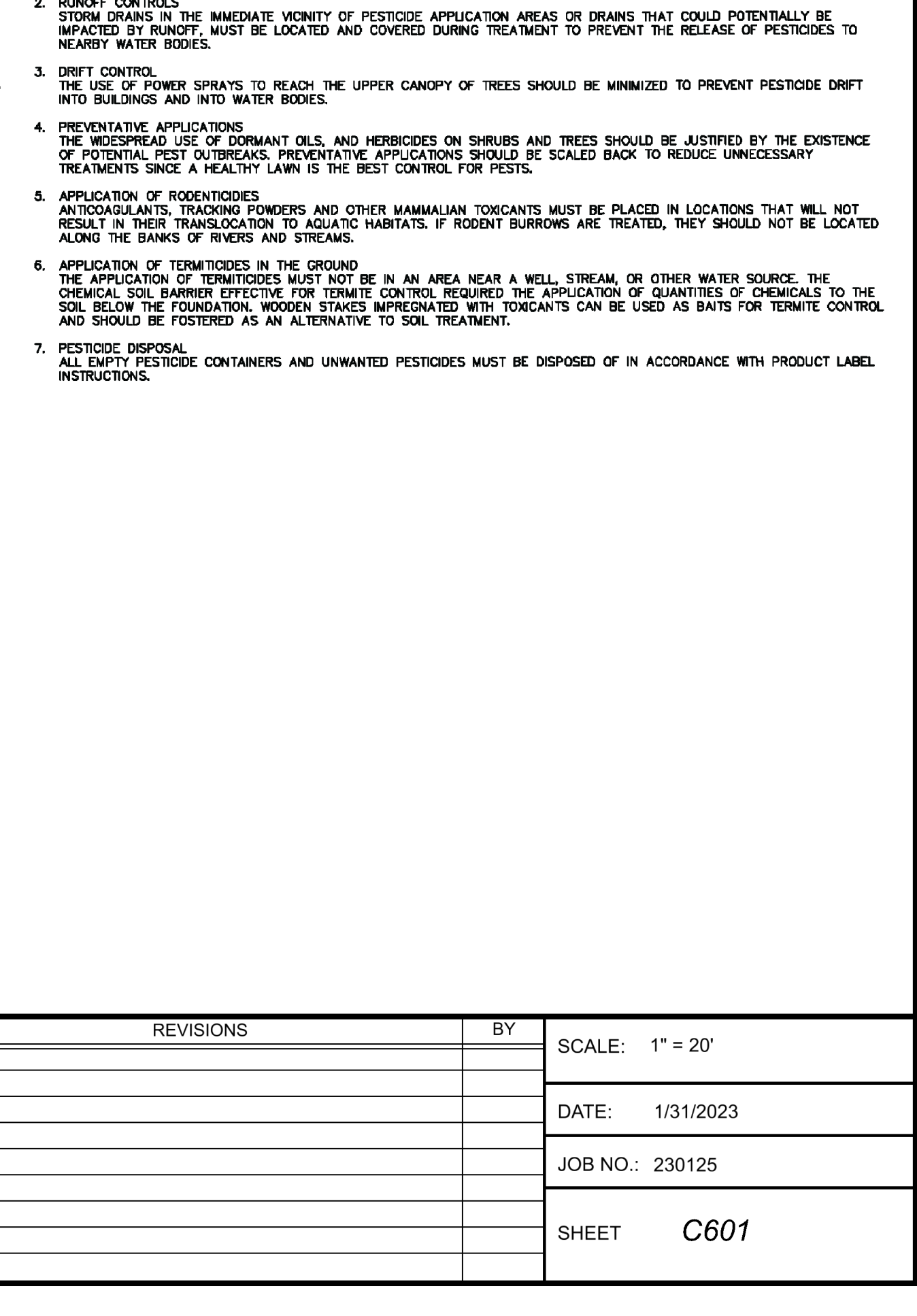
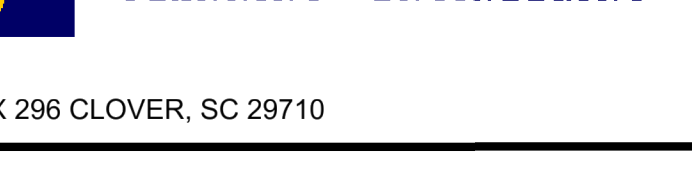
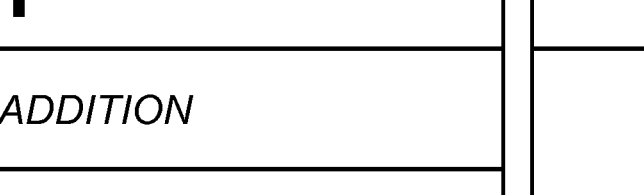
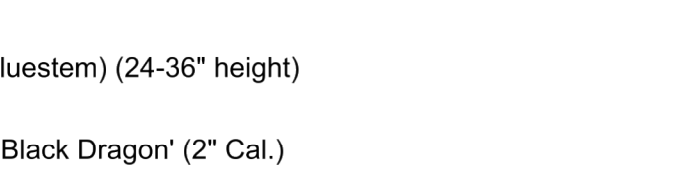
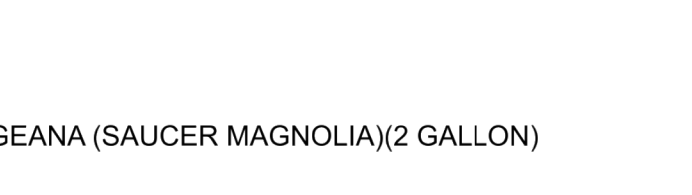
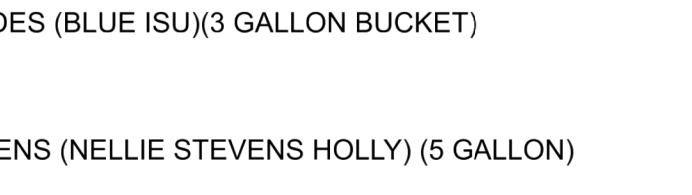
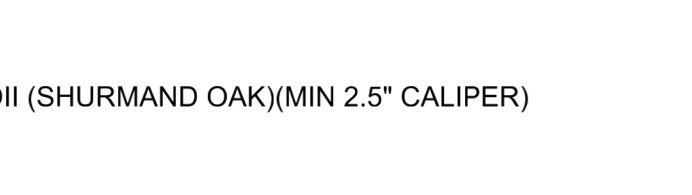
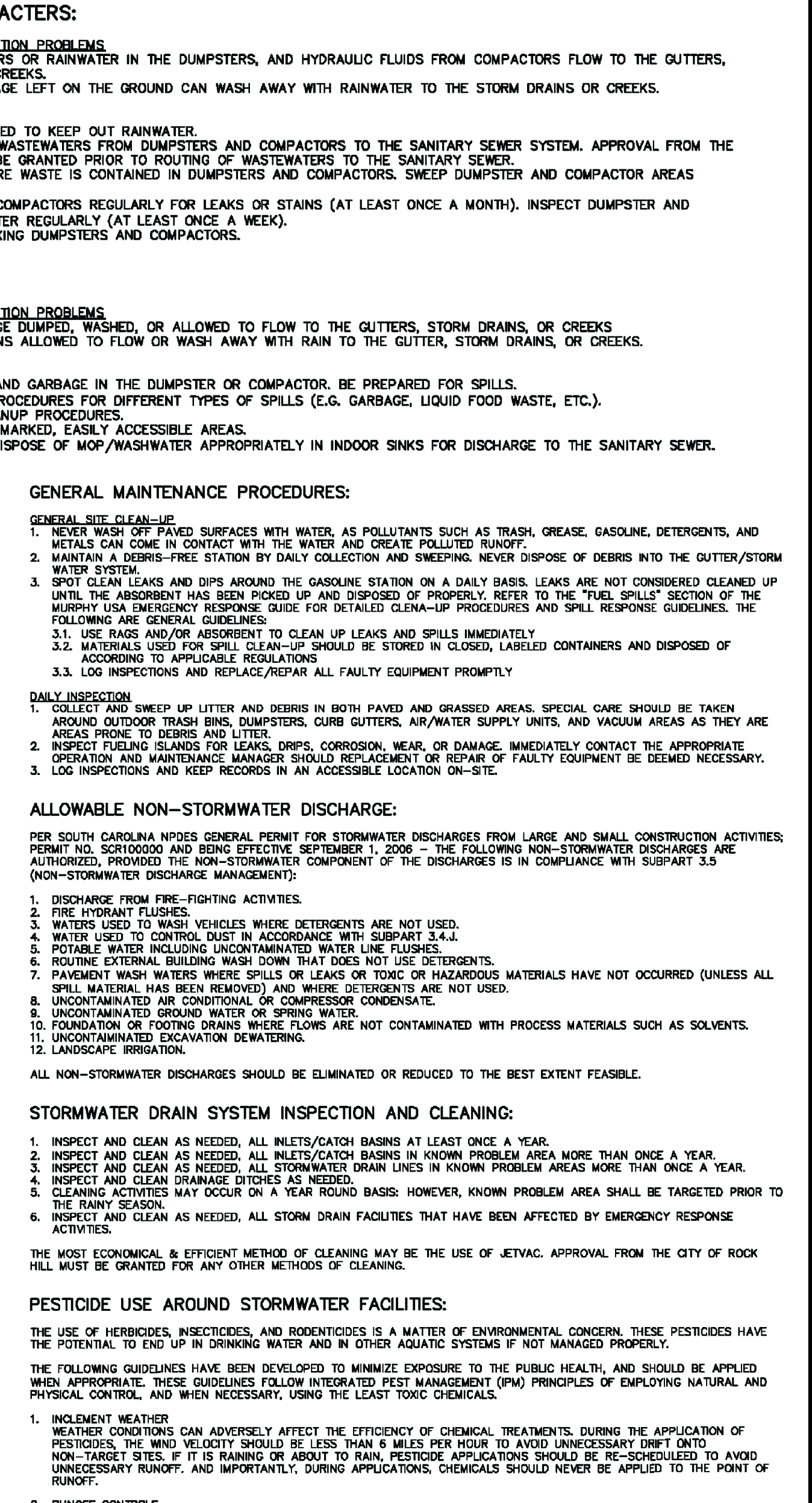
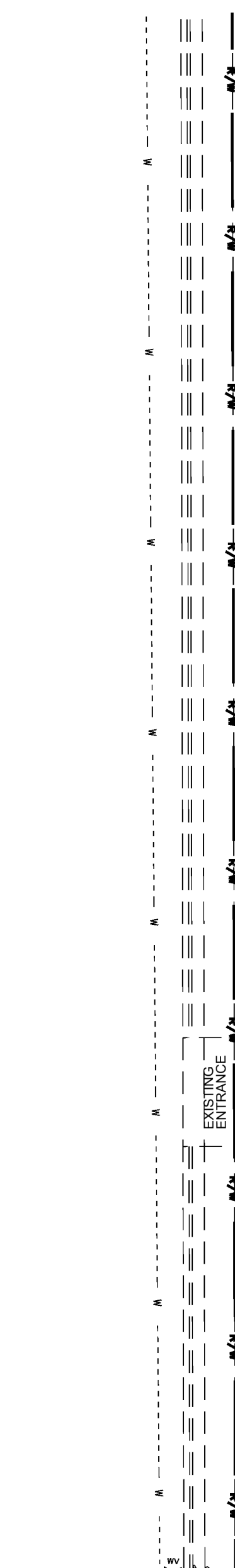
APPROVALS		PREPARED BY		SEALS		PROJECT		SHEET TITLE		NO.	DATE	REVISIONS	BY	SCALE: 1" = 20'
Project Engr: _____			JOEL E. WOOD & ASSOCIATES PLANNING • ENGINEERING • MANAGEMENT		BID SET	TOM'S BODY SHOP ADDITION		GRADING & EROSION CONTROL PLAN						DATE: 1/31/2023
Drawn By: _____													JOB NO.: 230125	
Checked By: _____														
Review: _____														
Bid: _____														
Construction: _____		P.O. BOX 296 CLOVER, SC 29710		(803) 684-3390		ROCK HILL, SOUTH CAROLINA PREPARED FOR TOM'S BODY SHOP								SHEET C500

GENERAL PLANTING NOTES

1. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF QUANTITIES IN THE PLANT LIST. ANY DISCREPANCIES BETWEEN QUANTITIES ON PLAN AND PLANT LIST SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OR LANDSCAPE ARCHITECT. ANY FIELD ADJUSTMENTS OR QUANTITY ADJUSTMENTS MUST BE AUTHORIZED PRIOR TO PLANTING.
2. ALL TREES, SHRUBS AND PLANTS SHALL CONFORM TO ACCEPTED STANDARDS ESTABLISHED BY THE AMERICAN ASSOCIATION OF NURSEYMEN.
3. ALL PLANT MATERIAL SHALL BE SOAKED WITH WATER AND MULCHED IMMEDIATELY FOLLOWING PLANTING.
4. THE TOP OF THE ROOT BALLS SHALL BEAR THE SAME RELATIONSHIP TO FINISHED GRADE AS BORN TO PREVIOUS GROWING CONDITIONS.
5. ALL ROOT BALLS REMOVED FROM CANS SHALL BE SCARIFIED PRIOR TO BACKFILLING.
6. ALL PLANTS SHALL BE GUARANTEED TO BE IN HEALTHY CONDITION FOR ONE (1) YEAR AFTER ACCEPTANCE BY OWNER OF ALL PLANT MATERIAL.
7. MULCH A MIN. FOUR (4) FOOT AREA AROUND EACH TREE. MULCH A CONTINUOUS AREA AROUND ALL SHRUB BEDS, AS INDICATED ON THE PLAN, WITHIN 2 DAYS AFTER PLANTS ARE INSTALLED. MULCH SHALL BE 3-4 IN. OF PINE NEEDLE MULCH OR DOUBLE HAMMERED SHREDDED MULCH.
8. LANDSCAPE CONTRACTOR SHALL REMOVE TOP 1/3 OF ALL WIRE BASKETS, TOP 1/3 OF BURLAP AND ASSOCIATED TWINE AND STRAPPING FROM TREE ROOT BALLS PRIOR TO FINAL ACCEPTANCE OF PLANTS.
9. TOPSOIL SHALL BE PROVIDED BY LANDSCAPE CONTRACTOR AND USED FOR BACKFILLING ALL PITS FOR PLANTS. PROVIDE TOPSOIL WHICH IS FERTILE, FRIABLE, NATURAL LOAM, SURFACE SOIL, REASONABLY FREE OF SUB-SOIL, CLAY LUMPS, BRUSH, WEEDS AND OTHER LITTER AND FREE OF ROOTS, STUMPS, STONES LARGER THAN 1" IN ANY DIMENSION, AND OTHER EXTRANEIOUS OR TOXIC MATTER HARMFUL TO PLANT GROWTH. TOPSOIL SHALL HAVE 2-5% MIN. ORGANIC MATTER, A 60% MAX. CLAY CONTENT, AND pH VALUE OF 6-6.5%.
10. ALL BEDS SHOULD BE TILLED PRIOR TO ADDING PLANTING MIX. PLANTING MIX SHALL CONSIST OF 4" TOPSOIL, AS PER NOTE 9, 4" OF GROUND PINE BARK SOIL CONDITIONER AND 2" MUSHROOM COMPOST. AFTER PLACEMENT OF PLANTING MIX, ALL BEDS SHALL BE DEEP TILLED TO 12" DEPTH.
11. CONTRACTOR IS RESPONSIBLE FOR HAVING ALL UNDERGROUND UTILITIES LOCATED AND CLEARLY PAINTED WITHIN 10 DAYS OF ANY GROUND DISTURBING ACTIVITY. OWNER WILL NOT PAY FOR UTILITY REPAIRS DUE TO FAILURE TO MARK AND OBSERVE UTILITY LOCATIONS.



APPROVALS		PREPARED BY		SEALS		PROJECT		SHEET TITLE		NO.	DATE	REVISIONS	BY	SCALE: 1" = 20'			
Project Engr: _____ Drawn By: _____ Checked By: _____		<div><div><div>W</div><div>JOEL E. WOOD & ASSOCIATES</div><div>PLANNING • ENGINEERING • MANAGEMENT</div></div><div>P.O. BOX 296 CLOVER, SC 29710 (803) 684-3390</div></div>		<div><div>SOUTH CAROLINA</div><div>JOEL E. WOOD</div><div>ASSOCIATES, P.C.</div><div>NO. 5762</div><div>REGISTERED PROFESSIONAL ENGINEER</div><div>CERTIFICATE OF AUTHORIZATION</div></div>		TOM'S BODY SHOP ADDITION		LANDSCAPING PLAN								DATE: 1/31/2023	
ROCK HILL, SOUTH CAROLINA PREPARED FOR TOM'S BODY SHOP													JOB NO.: 230125				
Review: _____ Bid: _____ Construction: _____															SHEET C600		



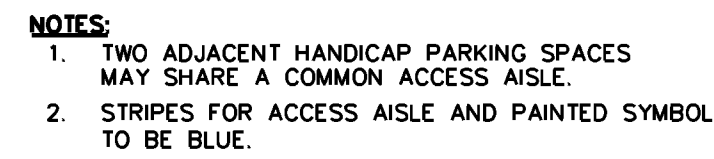


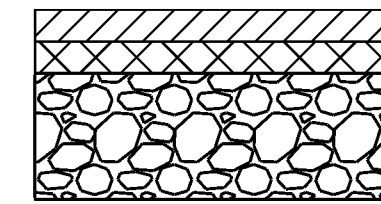
Diagram illustrating a typical vertical sign post configuration. The post is 5' 0 1/8" high. The top sign is labeled "RESERVED PARKING" and features a wheelchair symbol, identified as SIGN R7-8. The bottom sign is labeled "MAXIMUM PENALTY \$100" and "R7-8D", identified as SIGN R7-8D. The signs are 3'-0" high and 12" wide. The post is labeled "FINISHED GRADE".

Technical drawing of a vertical shaft assembly. The drawing shows a cross-section of the shaft and its connection to a base. Key dimensions and features include:

- A vertical shaft with a diameter of $2''$.
- A base with a diameter of $4''-0''$.
- A callout 'a' pointing to the shaft.
- A callout 'b' pointing to the base.
- A callout 'c' pointing to the shaft.
- A callout 'd' pointing to the base.
- A callout 'e' pointing to the shaft.
- A callout 'f' pointing to the base.
- A callout 'g' pointing to the shaft.
- A callout 'h' pointing to the base.
- A callout 'i' pointing to the shaft.
- A callout 'j' pointing to the base.
- A callout 'k' pointing to the shaft.
- A callout 'l' pointing to the base.
- A callout 'm' pointing to the shaft.
- A callout 'n' pointing to the base.
- A callout 'o' pointing to the shaft.
- A callout 'p' pointing to the base.
- A callout 'q' pointing to the shaft.
- A callout 'r' pointing to the base.
- A callout 's' pointing to the shaft.
- A callout 't' pointing to the base.
- A callout 'u' pointing to the shaft.
- A callout 'v' pointing to the base.
- A callout 'w' pointing to the shaft.
- A callout 'x' pointing to the base.
- A callout 'y' pointing to the shaft.
- A callout 'z' pointing to the base.

KEYED NOTES

- TRAFFIC DIRECTIONAL SIGN.
- 2"x 2" STEEL TUBE EXTENDED INTO CONCRETE FILLED 4" PIPE.
- 12"Ø CONCRETE FOUNDATION 6" BELOW FROST LINE (4 FT. MINIMUM BELOW FIN. GRADE).
- FINISHED GRADE.



2.0" TYPE C ASPHALT SURFACE
2.0" TYPE C ASPHALT INTERMEDIATE COURSE
10.0" GRADED AGGREGATE BASE

Diagram illustrating the layout and dimensions for a T-intersection sign placement:

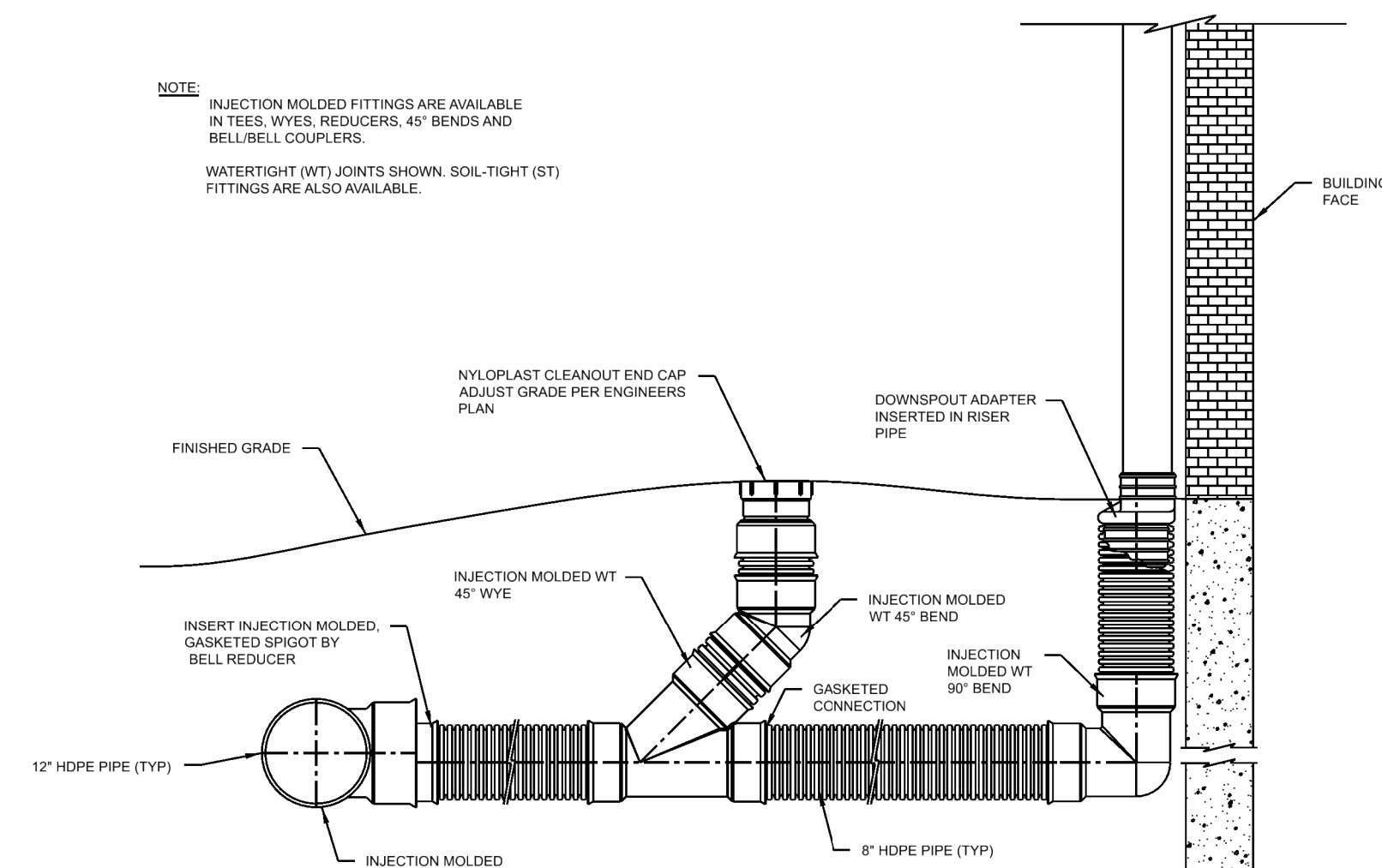
- STOP Sign:** Dimensions include a width of 1'-0" and a height of 2'-0". The text "STOP" is centered above the sign.
- DRIVE THRU Sign:** Dimensions include a width of 3'-6" and a height of 1'-9". The text "DRIVE THRU" is centered below the sign.
- Intersection Dimensions:** The intersection width is 1'-0". The distance from the stop sign to the intersection is 2'-0". The distance from the drive thru sign to the intersection is 6'-2'-0".
- Sign Placement:** The stop sign is placed on the left side of the intersection, and the drive thru sign is placed on the right side.

NOTES:

1. PAINT COLOR TO BE "YELLOW" FOR ARROW AND LETTERS.
"DRIVE-THRU" AND "STOP" LETTERS TO BE ELONGATED HELEVETICA MEDIUM - 4" WIDE STROKES.
2. PAINT 2" BLACK OUTLINE AROUND ARROW AND LETTERS FOR PROJECTS WITH CONCRETE PARKING LOTS.

NOTE: INJECTION MOLDED FITTINGS ARE AVAILABLE IN TEES, WYES, REDUCERS, 45° BENDS AND BELL/BELL COUPLERS.

WATERTIGHT (WT) JOINTS SHOWN. SOIL-TIGHT (ST) FITTINGS ARE ALSO AVAILABLE.



3000 PSI MIN. W/F FIBER

REQUIRED REAR BOLLARDS

12"

20"

2"

6"

12"

6"

6"

#4 REBAR WITH 6" SPACING

- NOTE:
 - * DUMPSTER PAD MUST BE POSITIONED TO PROVIDE A DIRECT HEAN ON APPROACH.
 - * ACCESS AND APPROACH, AND PAD MUST BE LEVEL.
 - * NO OTHER STRUCTURE SHALL BE LOCATED ON THE 20'x12' PAD THAT COULD HINIBT THE TRUCK FROM ACCESS TO THE DUMPSTER.
 - * FENCE OR WALL MAY BE REQUIRED TO PROTECT THE PAD, HOWEVER, IT MUST BE CONSTRUCTED SO AS TO PROVIDE A 12" OPENING OR CLEARANCE AS MEASURED FROM THE HINGE TO HINCE TO THE DUMPSTER.
 - * GATES MUST BE PROVIDED WITH A MECHANISM TO SECURE THEM IN THE FULLY OPEN POSITION.
 - * IF A GREASE STORAGE CONTAINER IS TO BE UTILIZED, THE CONTAINER MUST BE PROTECTED FOR AND BE SECURED TO THE PAD BY AN ANCHORING DEVICE.
 - * IF DUAL DUMPSTERS ARE REQUIRED THE MINIMUM PAD DIMENSIONS SHALL BE 25' WIDE AND 20' DEEP.
 - * CITY OF ROCK HILL STANDARD DUMPSTER HEIGHT IS 88"
 - * REFER TO ZONING ORDINANCE SECTION 8-11-00 FOR SCREENING REQUIREMENTS.
 - * REFER TO PLANS FOR DETAILS ON SCREENING MATERIALS AND DIMENSIONS.

ROCK HILL, SOUTH CAROLINA
PREPARED FOR
TOM'S BODY SHOP

SITE DETAILS

APPROVALS	
Project Engr:	_____
Drawn By:	_____
Checked By:	_____
Review:	_____
Bid:	_____
Construction:	_____

PREPARED BY

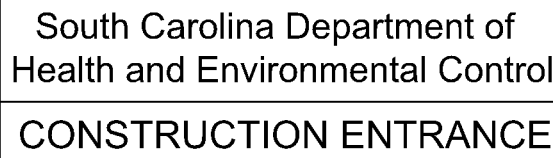
SEALS



JOEL E. WOOD & ASSOCIATES
PLANNING • ENGINEERING • MANAGEMENT

P.O. BOX 296 CLOVER, SC 29710

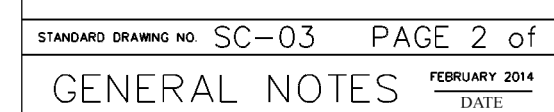
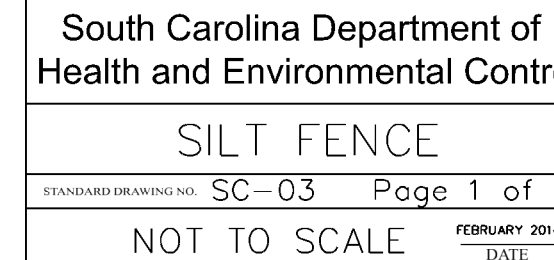
(803) 684-3390



South Carolina Department of
Health and Environmental Control

CONSTRUCTION ENTRANCE

- | | | |
|----------------------|-------|-----------------------|
| STANDARD DRAWING NO. | SC-06 | PAGE 2 of 2 |
| GENERAL NOTES | | FEBRUARY 2014
DATE |

[illegible]

Dry Storm Water Detention Ponds

Dry pond inside slopes should not be more than 3:1.

The pond floor should have a minimum slope of 2% toward the outlet or underdrain system.

Adequate maintenance access must be provided for all dry detention and dry ED ponds.

Low Flow Channel

A low flow channel should be provided to prevent standing water conditions. This channel should be protected to prevent scouring. The remainder of the pond should drain toward this channel. Where recreational uses are desired, the low-flow channel should be placed to one side instead in the middle of the pond.

Outlet

For a dry detention pond, the outlet structure is sized for water quality control and water quantity control (based upon hydrologic/routing calculations) and consists of a weir, orifice, outlet pipe, combination outlet, or other acceptable control structure.

A low flow orifice capable of releasing the water quality volume over 24 hours must be provided. The water quality orifice should have a minimum diameter 2-inches and should be adequately protected from clogging by an acceptable external trash rack.

The outlet of dry ponds should always be stabilized to prevent scour and erosion. If the pond discharges to a channel with dry weather flow, care should be taken to minimize tree clearing along the downstream channel, and to reestablish a forested riparian zone in the shortest possible distance.

Emergency Spillage:

An emergency spillway must be included to pass the 100-year storm event. The spillway prevents pond water levels from overtopping the embankment and causing structural damage. The spillway must be designed and installed to protect against erosion problems.

Anti-seep Collars:



Seepage control or anti-seep collars should be provided for all outlet pipes.

Inspection and Maintenance

Regular inspection and maintenance is critical to the effective operation of dry ponds as designed. Maintenance responsibility for a pond should be vested with a responsible authority by means of a legally binding and enforceable maintenance agreement that is executed as a condition of plan approval.

Inspections should be conducted semi-annually and after significant storm events to identify potential problems early. Most maintenance efforts will need to be directed toward vegetation management and basic housekeeping practices such as removal of debris accumulations and vegetation management to ensure that the pond powers completely to prevent mosquito and other habitats.

SCALE=NTS

APPROVALS	PREPARED BY	SEALS	PROJECT	SHEET TITLE	NO.	DATE	REVISIONS	BY	SCALE: N.T.S.
Project Engr: _____ Drawn By: _____ Checked By: _____	 JOEL E. WOOD & ASSOCIATES PLANNING • ENGINEERING • MANAGEMENT P.O. BOX 296 CLOVER, SC 29710 (803) 684-3390	 <div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); font-weight: bold; color: red;">BID SET</div>	TOM'S BODY SHOP ADDITION	SITE DETAILS					DATE: 1/31/2023
Review: _____ Bid: _____ Construction: _____			ROCK HILL, SOUTH CAROLINA PREPARED FOR TOM'S BODY SHOP						JOB NO.: 230125
									SHEET C701

GRASSING

PART 1 — GENERAL

RELATED DOCUMENTS

Drawings and general provisions of the contract, including General Conditions, Supplementary Conditions, and Technical Specification sections, apply to work of this section.

DESCRIPTION OF WORK

This specification pertains to planting, fertilizing, and cultivating grass on all fill slopes, cut slopes, and graded areas disturbed by installation of the utilities. Established lawns and landscaped areas damaged by construction are to be restored to their former condition by seeding or sodding.

SUBMITTALS

Submit seed vendor's certified statement for each grass seed mixture required, stating botanical and common name, percentage by weight, and percentages of purity, germination, and weed seed for each grass seed species.

DELIVERY, STORAGE, AND HANDLING

Deliver packaged materials in containers showing weight, analysis, and name of manufacturer. Protect materials from deterioration during delivery, and while stored at the site.

JOB CONDITIONS

This specification is intended to provide a complete grassing procedure which is to be carefully followed. Some procedures may be adjusted, upon consultation with the Engineer, so as to meet unproved weather and soil conditions.

Proceed with and complete grassing work as rapidly as portions of the project site become available.

SPECIAL PROJECT WARRANTY

Warranty grassing throughout the specified maintenance period, and until final acceptance.

PART 2 — PRODUCTS

SOIL AMENDMENTS

Lime: Natural calcitic limestone containing not less than 85% total carbonates with a minimum of 30% magnesium carbonates, ground so that not less than 90% passes a 10-mesh sieve and not less than 50% passes a 100-mesh sieve.

Superphosphate: Soluble mixture of treated minerals; 20% available phosphoric acid.

Commercial Fertilizers: Complete fertilizer of neutral character, with some elements derived from organic sources and containing the following percentages of available plant nutrients:

For grassing adjoining lawns, provide fertilizer with not less than 18% total nitrogen, 24% available phosphoric acid, and 12% soluble potash. Nitrogen is to be a form that will be available to grass during the initial growth period. At least 50% nitrogen is to be organic form. 50% slow release.

Fer-grassing in unimproved areas, provide fertilizer with not less than 5% total nitrogen, 10% available phosphoric acid, and 10% soluble potash.

GRASS MATERIALS

Sod: Provide fresh, clean, Fescue sod complying with tolerance for purity and germination established by Official Seed Analysts of North America.

ANTI-EROSION MATERIALS:

Mulch: Provide clean, seed-free hay or threshed straw of wheat, rye, oats, or barley. All-wood mulch, type film-forming agent, designed to permit transpiration but retard excessive loss of moisture. Deliver in manufacturer's fully identified containers and mix in accordance with manufacturer's instructions.

Liquid asphalt (kerosene thinned) is to be used during freezing weather. Liquid asphalt is to be either rapid or medium curing.

Emulsified asphalt (water thinned) is to be used when temperatures are above freezing.

PART 3 — EXECUTION

PREPARATION

Preparation of Planting Soil: Mix lime with dry soil prior to mixing of fertilizer. Prevent lime from contacting roots of acid-loving plants.

Apply phosphoric acid fertilizer (other than that constituting a portion of complete fertilizers) directly to subgrade before applying planting soil and tilling.

Preparation of Seed Bed: Loosen subgrade of areas to be grassed to a minimum depth of 4". Remove stones of 1 1/2" in any dimension and sticks, roots, rubbish and other extraneous matter. Limit preparation to areas which will be planted promptly after preparation.

Seed bed is to conform to ground elevations as shown on the Construction Drawings, or as was existing prior to construction. Light rolling and natural settlement should be taken into account. The complete seed bed should blend uniformly into the surrounding topography.

Good surface drainage of the bed must be provided. Visible ponding will not be allowed. Apply specified commercial fertilizer at the specified rates, and thoroughly mix into the upper 2" of the seed bed. Delay application of fertilizer if lawn planting will not follow within a few days.

In established lawn areas, fine grade seed bed to a smooth, even surface with loose, uniformly fine texture. Roll, rake, and drag lawn areas, remove ridges and fill depressions as required to meet finished grades. Limit fine grading to areas which can be planted immediately after grading.

Moisten prepared lawn areas before grassing if soil is dry. Water thoroughly and allow surface moisture to dry before planting. Do not create a muddy soil condition.

Restore seed beds to specified conditions if eroded or otherwise disturbed after fine grading and prior to planting.

SEEDING

Do not use wet seed or seed which is moldy or otherwise damaged in transit or storage. Sow seed using a spreader or seeding machine. Do not seed when wind velocity exceeds 5 miles per hour. Distribute seed evenly over entire area by sowing equal quantity in two directions at right angles to each other.

Sow not less than the quantity of seed specified.

Rake seed lightly into the top 1/8 inch of soil, roll lightly, and water with a fine spray. Protect seeded slopes against erosion by spreading specified lawn mulch after completion of seeding operations. Spread uniformly to form a continuous blanket not less than 1 1/2 inch, loose measurement, over seeded areas.

HYDROSEEDING NEW LAWNS

Mix specified seed, fertilizer, and pulverized mulch in water, using equipment specifically designed for hydroseed application. Continue mixing until uniformly blended into homogenous slurry, suitable for hydraulic application.

Apply slurry uniformly to all areas to be seeded. Rate of applications is to be as required to obtain specified seed sowing rate.

MULCHING RATE

After fertilizing, seeding, raking, and tilling, dried straw is to be uniformly spread over the area at the rate of 90 pounds per 1000 square feet. Straw is to be sprayed with liquid asphalt to bond and anchor it.

Liquid asphalt (kerosene thinned) is to be applied at a rate of 150 gallons per ton of straw (approximately 7 gallons per 1000 square feet).

Preparation of Planting Soil: Mix lime with dry soil prior to mixing of fertilizer. Prevent lime from contacting roots of acid-loving plants.

Apply phosphoric acid fertilizer (other than that constituting a portion of complete fertilizers) directly to subgrade before applying planting soil and tilling.

Preparation of Sod Bed: Loosen subgrade of areas to be grassed to a minimum depth of 4". Remove stones of 1 1/2" in any dimension and sticks, roots, rubbish and other extraneous matter. Limit preparation to areas which will be planted promptly after preparation.

Sod bed is to conform to ground elevations as shown on the Construction Drawings, or as was existing prior to construction. Light rolling and natural settlement should be taken into account. The complete seed bed should blend uniformly into the surrounding topography.

Good surface drainage of the bed must be provided. Visible ponding will not be allowed. Apply specified commercial fertilizer at the specified rates, and thoroughly mix into the upper 2" of the sod bed. Delay application of fertilizer if lawn planting will not follow within a few days.

SODDING

Do not use sod which is moldy or otherwise damaged in transit or storage. Protect sodded slopes against erosion by spreading specified lawn mulch after completion of sodding operations.

MAINTENANCE

Begin maintenance immediately after planting. Maintain seeded areas for not less than 60 days after substantial completion, and longer as required to establish an acceptable stand. If seeded in fall and not given full 60 days of maintenance, or if not considered acceptable at that time, continue maintenance the following spring until an acceptable stand is established.

Maintain grassing by watering, fertilizing, weeding, mowing, trimming, and other operations such as rolling, regrading and replanting as required to establish a smooth, acceptable lawn, free of eroded bare areas.

INSPECTION AND MAINTENANCE

When grassing is completed, including maintenance, the Landscape Architect will, upon request, make an inspection to determine acceptability.

Grassing may be inspected for acceptance in parts agreeable to the Landscape Architect, provided work offered for inspection is complete, including maintenance.

When inspected grassing does not comply with the requirements, replace rejected work and continue specified maintenance until reinspected by the Landscape Architect and found acceptable.

SEASONAL SEEDING MIXTURES AND RATES OF APPLICATION:

Seasonal seeding mixtures and rates of application shall be as follows. All rates are in pounds per 1000 square feet.

Seeding within right-of-ways of state roadways will be accomplished in accordance with the requirements pertaining to maintained lawns.

Unless otherwise required by the State or the Engineer (pursuant to potential erosion of ditches or steep slopes) seed within road right-of-way will be treated like established lawns.

GENERAL PLANTING NOTES

1. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF QUANTITIES IN THE PLANT LIST. ANY DISCREPANCIES BETWEEN QUANTITIES ON PLAN AND PLANT LIST SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OR LANDSCAPE ARCHITECT. ANY FIELD ADJUSTMENTS OR QUANTITY ADJUSTMENTS MUST BE AUTHORIZED PRIOR TO PLANTING.

2. ALL TREES, SHRUBS AND PLANTS SHALL CONFORM TO ACCEPTED STANDARDS ESTABLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.

3. ALL PLANT MATERIAL SHALL BE SOAKED WITH WATER AND MULCHED IMMEDIATELY FOLLOWING PLANTING.

4. THE TOP OF THE ROOT BALLS SHALL BEAR THE SAME RELATIONSHIP TO FINISHED GRADE AS BORN TO PREVIOUS GROWING CONDITIONS.

5. ALL ROOT BALLS REMOVED FROM CANS SHALL BE SCARIFIED PRIOR TO BACKFILLING.

6. ALL PLANTS SHALL BE GUARANTEED TO BE IN HEALTHY CONDITION FOR ONE (1) YEAR AFTER ACCEPTANCE BY OWNER OF ALL PLANT MATERIAL.

7. MULCH A MIN. FOUR (4) FOOT AREA AROUND EACH TREE. MULCH A CONTINUOUS AREA AROUND ALL SHRUB BEDS, AS INDICATED ON THE PLAN, WITHIN 2 DAYS AFTER PLANTS ARE INSTALLED. MULCH SHALL BE 3-4 IN. OF PINE NEEDLE MULCH OR DOUBLE HAMMERED SHREDDED MULCH.

8. LANDSCAPE CONTRACTOR SHALL REMOVE TOP 1/3 OF ALL WIRE BASKETS, TOP 1/3 OF BURLAP AND ASSOCIATED TWINE AND STRAPPING FROM TREE ROOT BALLS PRIOR TO FINAL ACCEPTANCE OF PLANTS.

9. TOPSOIL SHALL BE PROVIDED BY LANDSCAPE CONTRACTOR AND USED FOR BACKFILLING ALL PITS FOR PLANTS. PROVIDE TOPSOIL WHICH IS FERTILE, FRABLE, NATURAL LOAM, SURFACE SOIL, REASONABLY FREE OF SUB-SOIL, CLAY LUMPS, BRUSH, WEEDS AND OTHER LITTER AND FREE OF ROOTS, STUMPS, STONES LARGER THAN 1" IN ANY DIMENSION, AND OTHER EXTRANEOUS OR TOXIC MATTER HARMFUL TO PLANT GROWTH. TOPSOIL SHALL HAVE 2-5% MIN. ORGANIC MATTER, A 60% MAX. CLAY CONTENT, AND PH VALUE OF 6-6.5%.

10. ALL BEDS SHOULD BE TILLED PRIOR TO ADDING PLANTING MIX. PLANTING MIX SHALL CONSIST OF 4" TOPSOIL, AS PER NOTE 9, 4" OF GROUND PINE BARK SOIL CONDITIONER AND 2" MUSHROOM COMPOST. AFTER PLACEMENT OF PLANTING MIX, ALL BEDS SHALL BE DEEP TILLED TO 12" DEPTH.

11. CONTRACTOR IS RESPONSIBLE FOR HAVING ALL UNDERGROUND UTILITIES LOCATED AND CLEARLY PAINTED WITHIN 10 DAYS OF ANY GROUND DISTURBING ACTIVITY. OWNER WILL NOT PAY FOR UTILITY REPAIRS DUE TO FAILURE TO MARK AND OBSERVE UTILITY LOCATIONS.

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TOPSOIL PLANTING MIX - MINIMUM REQUIREMENTS:

1. WHERE PAVEMENT CUTOUTS ON RENOVATED SITES ARE REQUIRED AND/OR WHERE NEW PLANTING STRIPS OR ISLANDS ARE REQUIRED, ALL PAVEMENT, CONSTRUCTION DEBRIS AND GRAVEL SUB-BASE MUST BE REMOVED BEFORE PREPARING SOIL AND PLANTING TREES. EXISTING COMPACTED SOIL MUST BE REMOVED AND REPLACED WITH 24" OF TOPSOIL/PLANTING MIX -OR- EXISTING SOIL MAY BE UNCOMPACTED TO A DEPTH OF 24" AND AMENDED TO MEET TOPSOIL STANDARDS.

2. SOIL IN ALL PLANTING STRIPS OR ISLANDS, WHETHER EXISTING OR NEW (ON NEW OR RENOVATED SITES), MUST MEET THE MINIMUM TOPSOIL/PLANTING MIX SPECIFICATIONS. SOIL AMENDMENTS OR FRESH TOPSOIL/PLANTING MIX ARE OFTEN NEEDED FOR PLANTING AREAS AT SITES WHERE ORIGINAL TOPSOIL IS OF POOR QUALITY, HEAVILY COMPACTED OR WHERE TOPSOIL HAS BEEN COMPLETELY REMOVED DURING GRADING.

3. TOPSOIL/PLANTING MIX SHOULD BE NATURAL, FERTILE, AGRICULTURAL SOIL, CAPABLE OF SUSTAINING VIGOROUS PLANT GROWTH. IT SHOULD BE UNIFORM COMPOSITION THROUGHOUT, WITH A MIXTURE OF SUBSOIL. IT SHOULD BE FREE OF STONES, LUMPS, LIVE PLANTS AND THEIR ROOTS, STICKS AND OTHER EXTRANEOUS MATTER. TOPSOIL SHOULD NOT BE USED WHILE IN A FROZEN OR MUDDY CONDITION.

4. TOPSOIL/PLANTING MIX SHALL HAVE AN ACIDITY RANGE OF pH 5.5-7.0 AND THE FOLLOWING COMPOSITION:

- CLAY (RED CLAY, PULVERIZED)	MINIMUM 10	
- COMPOST*	MINIMUM 5	
- SILT		
- COARSE SAND (FREE OF ROCKS)	MINIMUM 30	MINIMUM 30

5. ALL PLANTING AREAS SHOULD BE TESTED FOR PROPER DRAINAGE. DRAINAGE SHOULD BE CORRECTED AS NECESSARY TO INSURE PROPER TREE GROWTH AND SURVIVAL. THE FOLLOWING LEVEL OF NUTRIENT ELEMENTS IS RECOMMENDED FOR PROPER GROWTH:

- NITROGEN	55 % - 80 %	%	MAXIMUM 50%,
- PHOSPHOROUS	10%-30%	%	MAXIMUM 45%,
- POTASSIUM	5%-8%	%	

6. ALL PLANTING AREAS SHOULD BE TESTED FOR PROPER DRAINAGE. DRAINAGE SHOULD BE CORRECTED AS NECESSARY TO INSURE PROPER TREE GROWTH AND SURVIVAL. THE FOLLOWING LEVEL OF NUTRIENT ELEMENTS IS RECOMMENDED FOR PROPER GROWTH:

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- POTASSIUM	5%-8%	%	

7. ALL PLANTING AREAS SHOULD BE TESTED FOR PROPER DRAINAGE. DRAINAGE SHOULD BE CORRECTED AS NECESSARY TO INSURE PROPER TREE GROWTH AND SURVIVAL. THE FOLLOWING LEVEL OF NUTRIENT ELEMENTS IS RECOMMENDED FOR PROPER GROWTH:

- NITROGEN	55 % - 80 %	%	MAXIMUM 50%,
- PHOSPHOROUS	10%-30%	%	MAXIMUM 45%,
- POTASSIUM	5%-8%	%	

8. ALL PLANTING AREAS SHOULD BE TESTED FOR PROPER DRAINAGE. DRAINAGE SHOULD BE CORRECTED AS NECESSARY TO INSURE PROPER TREE GROWTH AND SURVIVAL. THE FOLLOWING LEVEL OF NUTRIENT ELEMENTS IS RECOMMENDED FOR PROPER GROWTH:

- NITROGEN	55 % - 80 %	%	MAXIMUM 50%,
- PHOSPHOROUS	10%-30%	%	MAXIMUM 45%,
- POTASSIUM	5%-8%	%	

9. ALL PLANTING AREAS SHOULD BE TESTED FOR PROPER DRAINAGE. DRAINAGE SHOULD BE CORRECTED AS NECESSARY TO INSURE PROPER TREE GROWTH AND SURVIVAL. THE FOLLOWING LEVEL OF NUTRIENT ELEMENTS IS RECOMMENDED FOR PROPER GROWTH:

- NITROGEN	55 % - 80 %	%	MAXIMUM 50%,
- PHOSPHOROUS	10%-30%	%	MAXIMUM 45%,
- POTASSIUM	5%-8%	%	

10. ALL PLANTING AREAS SHOULD BE TESTED FOR PROPER DRAINAGE. DRAINAGE SHOULD BE CORRECTED AS NECESSARY TO INSURE PROPER TREE GROWTH AND SURVIVAL. THE FOLLOWING LEVEL OF NUTRIENT ELEMENTS IS RECOMMENDED FOR PROPER GROWTH:

- NITROGEN	55 % - 80 %	%	MAXIMUM 50%,
- PHOSPHOROUS	10%-30%	%	MAXIMUM 45%,
- POTASSIUM	5%-8%	%	

11. ALL PLANTING AREAS SHOULD BE TESTED FOR PROPER DRAINAGE. DRAINAGE SHOULD BE CORRECTED AS NECESSARY TO INSURE PROPER TREE GROWTH AND SURVIVAL. THE FOLLOWING LEVEL OF NUTRIENT ELEMENTS IS RECOMMENDED FOR PROPER GROWTH:

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- PHOSPHOROUS	10%-30%	%	MAXIMUM 45%,
- POTASSIUM	5%-8%	%	

12. ALL PLANTING AREAS SHOULD BE TESTED FOR PROPER DRAINAGE. DRAINAGE SHOULD BE CORRECTED AS NECESSARY TO INSURE PROPER TREE GROWTH AND SURVIVAL. THE FOLLOWING LEVEL OF NUTRIENT ELEMENTS IS RECOMMENDED FOR PROPER GROWTH:

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- PHOSPHOROUS	10%-30%	%	MAXIMUM 45%,
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13. ALL PLANTING AREAS SHOULD BE TESTED FOR PROPER DRAINAGE. DRAINAGE SHOULD BE CORRECTED AS NECESSARY TO INSURE PROPER TREE GROWTH AND SURVIVAL. THE FOLLOWING LEVEL OF NUTRIENT ELEMENTS IS RECOMMENDED FOR PROPER GROWTH:

- NITROGEN	55 % - 80 %	%	MAXIMUM 50%,
- PHOSPHOROUS	10%-30%	%	MAXIMUM 45%,
- POTASSIUM	5%-8%	%	

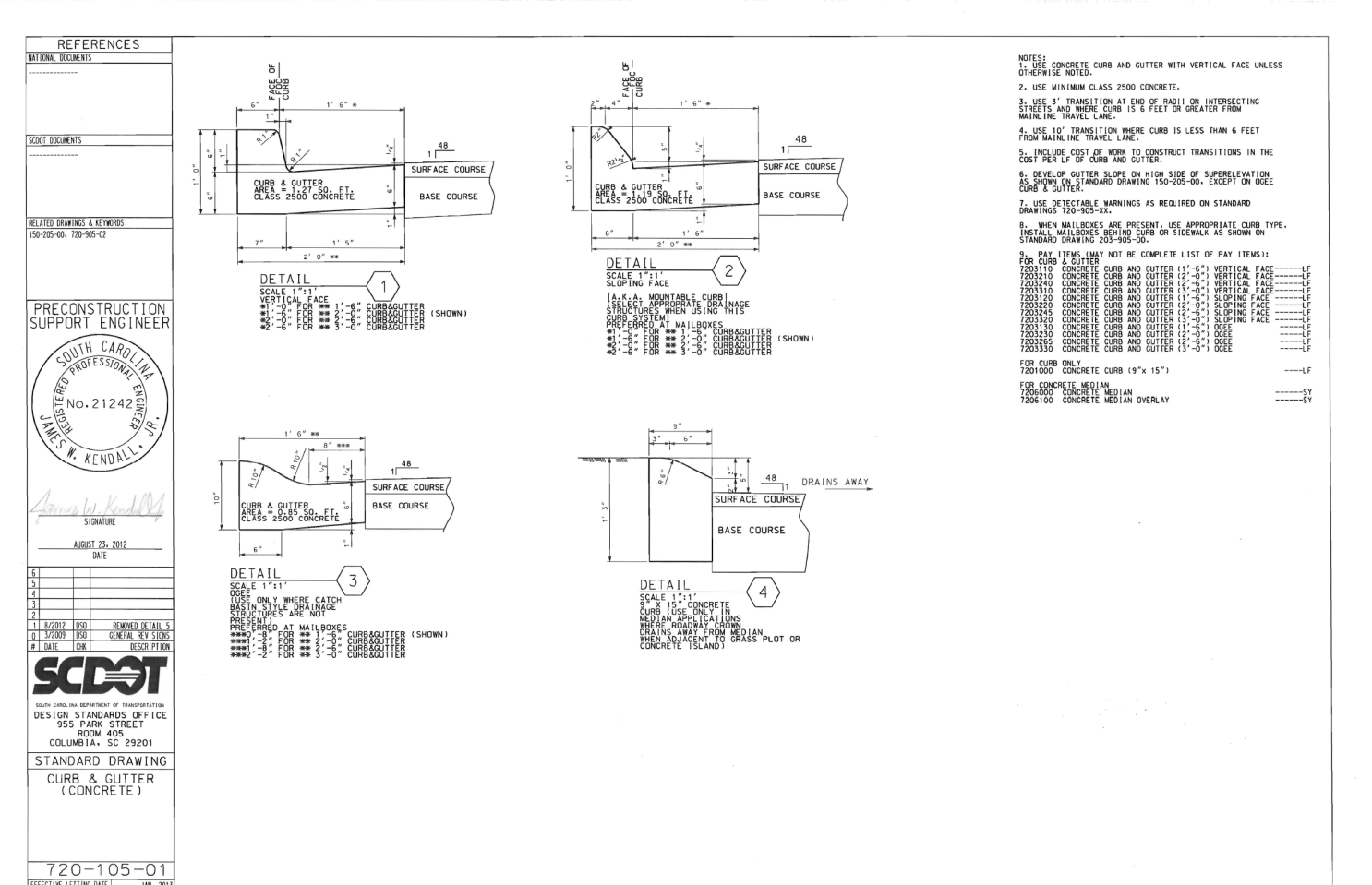
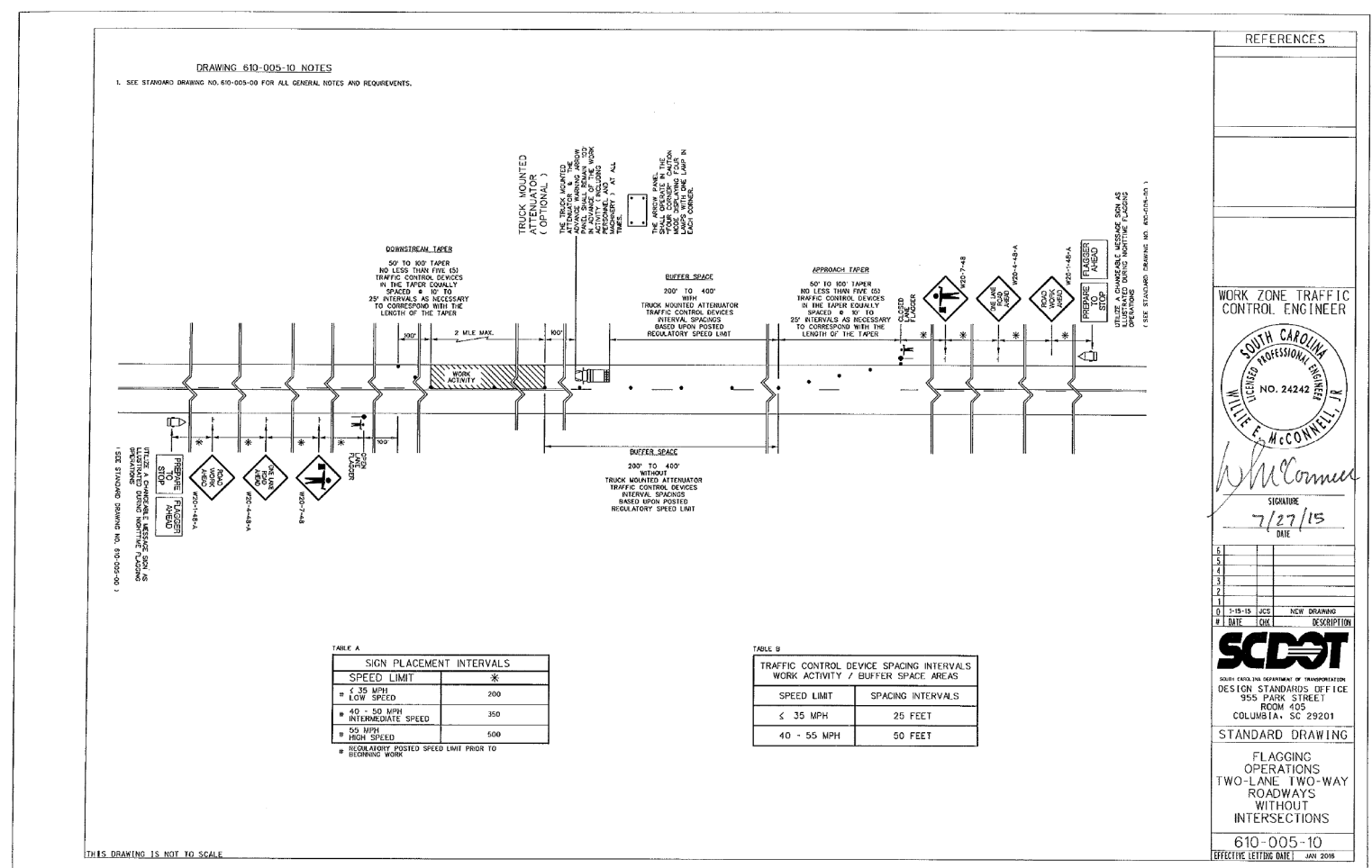
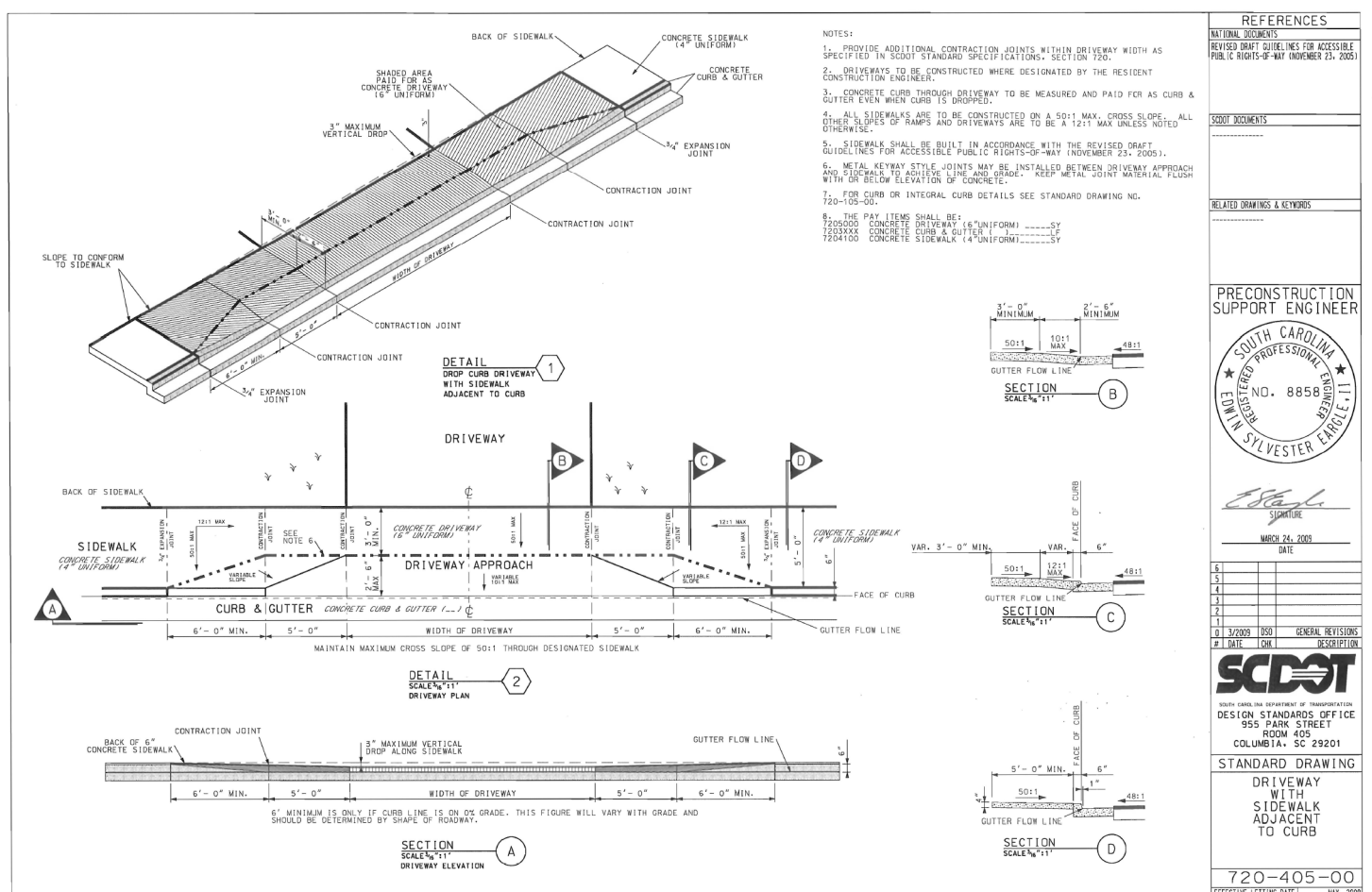
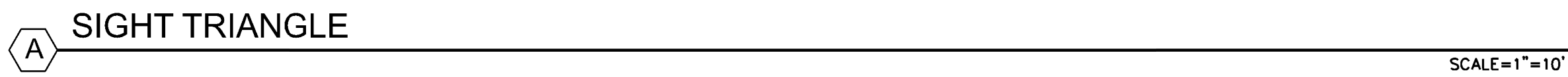
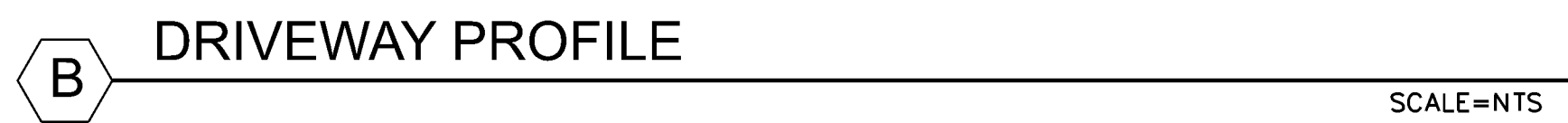
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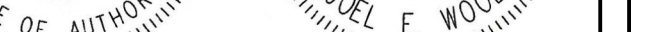
SAUCER BERM
PREPARED PLANTING MIX

The diagram shows a cross-section of a tree planting pit. A circular area at the top is labeled 'SAUCER BERM'. Below it, the pit is filled with 'PREPARED PLANTING MIX'. A central vertical line indicates the trunk placement. The pit is wider at the top and tapers slightly towards the bottom.

4. SCARE PLANTING HALL AN PIT IMMEDIATELY AFTER INSTALLATION. PLANT A
5. SOONED MIX OR PLANTING MIX AROUND BACK OF TRUNK. PLANTING MIX
6. TREE BRACING STRAPS ARE OPTIONAL. USE POLYPROPYLENE WEBBING OR
WIRE OR ROPE TO BE IN DIRECT CONTACT WITH TRUNK. REMOVE ALL
AND TRUNK WRAP AFTER ONE GROWING SEASON.

7. ANY TREE PROPOSED FOR PLANTING ON THE STREET RIGHT-OF-WAY MUST
APPROVED IN ADVANCED BY THE CITY ARBORIST AS TO SPECIES, SIZE AND



APPROVALS	PREPARED BY	SEALS	PROJECT	SHEET TITLE	NO.	DATE	REVISIONS	BY	SCALE: N.T.S.
Project Engr: _____ Drawn By: _____ Checked By: _____	 JOEL E. WOOD & ASSOCIATES PLANNING • ENGINEERING • MANAGEMENT P.O. BOX 296 CLOVER, SC 29710 (803) 684-3390		TOM'S BODY SHOP ADDITION	SCDOT ENCROACHMENT					DATE: 1/31/2023
Review: _____ Bid: _____ Construction: _____			ROCK HILL, SOUTH CAROLINA PREPARED FOR TOM'S BODY SHOP						JOB NO.: 230125
									SHEET C800