

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE GEORGIA DEPARTMENT OF TRANSPORTATION STANDARD AND SUPPLEMENTAL SPECIFICATIONS, CURRENT EDITION.
2. ALL KNOWN UTILITY FACILITIES ARE SHOWN SCHEMATICALLY ON 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 PLANS WILL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY UNDER THIS REQUIREMENT. "EXISTING UTILITY FACILITIES" MEANS ANY UTILITY THAT EXISTS ON THE HIGHWAY PROJECT IN ITS ORIGINAL, RELOCATED, OR NEWLY INSTALLED POSITION. 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 HIS WORK.
3. THE TOTAL EARTHWORK QUANTITY SHOWN ON THE PLANS IS FOR INFORMATION ONLY. THE CITY OF SANDY SPRINGS ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY. THE CONTRACTOR SHALL BID ON GRADING COMPLETE LUMP SUM AND IT SHALL BE HIS RESPONSIBILITY TO DETERMINE THE ACTUAL EARTHWORK QUANTITY TO BE GRADED. NO CLAIMS WILL BE CONSIDERED FOR EXTRA COMPENSATION IF THE CONTRACTOR RELIES ON THE QUANTITY SHOWN ON THE PLANS. COSTS FOR ITEMS TO BE REMOVED WHICH DO NOT HAVE A SEPARATE PAY ITEM SHALL BE INCLUDED IN THE PRICE BID FOR GRADING COMPLETE - LUMP SUM. CLEARING AND GRUBBING ON THIS PROJECT IS LIMITED TO THE ACTUAL CONSTRUCTION LIMITS UNLESS DIRECTED BY THE ENGINEER. COST FOR CLEARING AND GRUBBING SHALL BE INCLUDED IN THE PRICE BID FOR GRADING COMPLETE - LUMP SUM.
4. 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.
5. UTILITY WORK COORDINATION WILL BE REQUIRED AS A PART OF THIS CONTRACT. THE CONTRACTOR SHALL BE REQUIRED TO USE THE ONE-CALL CENTER TELEPHONE NUMBER, 811 OR 1-800-282-7411, FOR THE PURPOSE OF COORDINATING THE MARKING OF UNDERGROUND UTILITIES. THE CONTRACTOR'S ATTENTION IS CALLED TO SUB-SECTION 105.06 "COOPERATION WITH UTILITIES" OF THE STANDARD SPECIFICATIONS.
6. THE FOLLOWING UTILITIES HAVE FACILITIES IN THE PROJECT AREA:

UTILITY OWNER	SERVICE
SOUTHERN COMPANY GAS	GAS
GEORGIA POWER	POWER
AT&T	TELECOMMUNICATIONS
GOOGLE FIBER, INC.	TELECOMMUNICATIONS
CITY OF SANDY SPRINGS	TRAFFIC CONTROL
COMCAST	TELEVISION
FULTON COUNTY	SEWER
CITY OF ATLANTA	WATER

7. INGRESS AND EGRESS SHALL BE MAINTAINED AT ALL TIMES TO ADJACENT PROPERTIES.
8. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FURNISH SUITABLE BORROW MATERIAL FOR THE PROJECT AND DISPOSE OF ANY UNSUITABLE OR WASTE MATERIAL.
9. HORIZONTAL CONTROL IS BASED UPON GEORGIA STATE PLANE COORDINATE SYSTEM. SEE PLANS FOR LOCATIONS AND DESCRIPTIONS OF MONUMENTS USED.

10. THE CONTRACTOR SHALL OBSERVE ALL APPLICABLE LOCAL, STATE, AND FEDERAL SAFETY REGULATIONS REGARDING PIPE INSTALLATION IN TRENCHES. NO SEPARATE PAYMENT WILL BE MADE FOR ANY COST INCURRED TO COMPLY WITH THIS REQUIREMENT.
11. COST FOR THE REMOVAL OF EXISTING PIPES AND WALLS SHALL BE INCLUDED BID FOR GRADING IN THE PRICE COMPLETE - LUMP SUM.
12. PRICE BID FOR TRAFFIC CONTROL - LUMP SUM SHALL INCLUDE, BUT IS NOT LIMITED TO, CONSTRUCTION, MAINTENANCE, AND REMOVAL OF TEMPORARY SIGNING, BARRICADES, CHANNELIZING DEVICES, ETC. REQUIRED FOR 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.
13. THE CONTRACTOR SHALL ENSURE THAT POSITIVE AND ADEQUATE DRAINAGE IS MAINTAINED AT ALL TIMES WITHIN THE PROJECT LIMITS. THIS MAY INCLUDE, BUT NOT LIMITED TO, REPLACEMENT OR RECONSTRUCTION OF EXISTING DRAINAGE STRUCTURES THAT HAVE BEEN DAMAGED OR REMOVED, OR REGRADED AS REQUIRED BY THE ENGINEER. EXCEPT FOR THOSE DRAINAGE ITEMS SHOWN AT SPECIFIC LOCATIONS IN THE PLANS AND HAVING SPECIFIC PAY ITEMS IN THE DETAILED ESTIMATE, NO SEPARATE PAYMENT WILL BE MADE FOR ANY COSTS INCURRED TO COMPLY WITH THIS REQUIREMENT.
14. TYPE OF GRASS 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 SEPARATE PAYMENT WILL BE MADE FOR ANY COSTS INCURRED TO COMPLY WITH THIS REQUIREMENT.
15. SIDEWALK INSTALLATION SHALL MEET ALL REQUIREMENTS OF THE UNIFORM FEDERAL ACCESSIBILITY STANDARDS (UFAS) AND "AMERICAN DISABILITY ACT OF 1991". ANY ADDITIONAL WORK REQUIRED BY UFAS BUT NOT SHOWN IN THIS CONTRACT WILL BE INCLUDED IN THE PRICE AND NO ADDITIONAL PAYMENT WILL BE MADE.
16. ALL SIDEWALK REMOVAL TO BE INCLUDED IN PRICE BID FOR GRADING COMPLETE.
17. ALL SIGN REMOVAL WILL BE INCLUDED IN PRICE BID FOR GRADING COMPLETE.
18. SAW CUTS TO BE INCLUDED IN COST FOR GRADING COMPLETE.
19. AN NO1 IS NOT REQUIRED FOR THIS PROJECT.
20. THE TOTAL DISTURBED AREA FOR THE PROJECT IS 0.343 ACRES.
21. ALL PIPES ARE TO REMAIN IN PLACE UNLESS OTHERWISE NOTED.
22. ALL PIPES THAT ARE TO BE ABANDONED ARE TO BE FILLED WITH FLOWABLE FILL AND THE COST SHALL BE INCLUDED IN GRADING COMPLETE.
23. CONTRACTOR SHALL NOT OPERATE WHEELED OR TRACKED EQUIPMENT WITHIN THE 25' STATE STREAM BUFFER.
24. CONTRACTOR IS RESPONSIBLE FOR ALL COMPACTON AND TESTING TO MEET THE CITY REQUIREMENTS. THE COST FOR COMPACTON AND TESTING SHALL BE INCLUDED IN THE COST FOR GRADING COMPLETE.
25. GRANITE STONE FACING TO BE INCLUDED IN PRICE BID FOR RETAINING WALL.



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CITY OF SANDY SPRINGS
 BOARD OF COMMISSIONERS
**ALLEN ROAD DRAINAGE PLAN
 GENERAL NOTES**

DRAWING No.
4-001

ESPCP GENERAL NOTES

The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land-disturbing activities.

Erosion and sedimentation control measures will be maintained at all times. If full implementation of the approved plan does not provide for effective control, additional erosion and sedimentation control measures shall be implemented to control or treat the sediment source.

PLAN ALTERATIONS

This Erosion, Sedimentation, and Pollution Control Plan (ESPCP) is provided by the City. It addresses the staged construction of the project on the basis of common construction methods and techniques. If the Contractor elects to alter the staged construction from that shown in the plans or utilize construction techniques that render this plan ineffective, the Contractor shall revise the plans in accordance to Special Provision 161 of the contract.

The Contractor, the Certified Design Professional, and the WECS shall carefully evaluate this plan prior to commencing land-disturbing activities. A major modification or deletion of structural BMP's with a hydraulic component requires a formal revision of the ESPCP and the signature of a GSWCC Level-II Certified Design Professional. Additional BMP's may be added per Special Provision 161-Control of Soil Erosion and Sedimentation.

TEMPORARY MULCHING

EPD General Permit GAR 100002 states that any disturbed area where construction activities have temporarily or permanently ceased shall be stabilized within 14 days of such cessation as soon as practicable with a suitable material listed in Standard Specification (or Special Provision) Sections 163, 700, or 711. However in special cases, the Project Engineer may require the contractor to perform stabilization more often than 14 days.

VEGETATION AND PLANTING SCHEDULE

All temporary and permanent vegetative practices including plant species, planting dates, seeding, fertilizing, liming, and mulching for this project can be found in Section 700 of the current edition of the Georgia DOT's Standard Specifications (or special provisions) and other applicable contract documents, or landscaping plans.

SEQUENCE OF MAJOR ACTIVITIES

The Contractor is responsible for developing the construction schedule for the project. The construction schedule for this project shall be submitted after the project is awarded along with the NOI. A copy of the construction schedule shall be maintained at the project site.

STAGED CONSTRUCTION

INITIAL BMP'S (STAGE 1)-
Prior to the start of land disturbing activities, the contractor shall install erosion control BMP's as shown on the erosion control plans. This includes construction exits, silt fence and silt gates. Stripping of vegetation and other development activities shall be conducted in such a manner so as to minimize sediment loss.

INTERMEDIATE BMP'S (STAGE 2)-
Maintain silt fence and use hayballed check dams to catch sediment in ditches.

FINAL STABILIZATION-
Permanent grassing shall be installed immediately upon completion of slope grading and erosion control mat installation. The project budget includes sufficient funds for the payment of construction exits. The Contractor is responsible for establishing at least one (1) construction exit per the specifications of the construction exit detail included in this ESPCP. To facilitate project logistics, the Contractor is also responsible for selecting the location(s) of the construction exit(s).

PETROLEUM STORAGE, SPILLS AND LEAKS

These plans expressly delegate the responsibility of proper on-site hazardous material management to the Contractor. The Contractor shall at a minimum provide an action plan and keep the necessary materials on site for the capture, clean up, and disposal of any petroleum product, or other hazardous material, leaks or spills associated with the servicing, refueling or operation of any equipment utilized at the site. A copy of the action plan shall be submitted to the Project Engineer and maintained on the project site. All personnel operating or servicing equipment shall be familiar with the action plan. The Contractor shall not park, refuel, or maintain equipment within stream buffers.

If the Contractor elects to store petroleum products on site, the Contractor shall prepare an ESPCP addendum that addresses the additional BMPs needed for onsite storage and spill prevention for petroleum products. This plan shall be prepared by a Certified Design Professional as required by GAR100002 for inclusion with these plans. The Contractor's attention is specifically directed to Standard Specification 107-Legal Regulations and Responsibility to the public for additional requirements.

SOIL SERIES INFORMATION

The following is a summary of the soils that are expected to be found on the project site:

MAP UNIT SYMBOL	MAP UNIT NAME	ACRES IN A01	PERCENT OF A01
UgE	Urban land-Grover-Mountain Park complex, 10 to 25 percent slopes, stony	1.5	56.9%
UmC2	Urban land-Madison-Bethlehem complex, 2 to 10 percent slopes, moderately eroded	0.1	5.1%
UrE	Urban land-Rion complex, 10 to 25 percent slopes	1.0	38.0%

Due to the size and scope of this project and the nature of soil series maps, it is not reasonably practical to delineate the precise locations of the above listed soils on the construction plans. The NRCS soil survey and soil series maps for the project site are also available online at <http://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm>.

POSTCONSTRUCTION BMP'S FOR STORMWATER MANAGEMENT

All permanent, post-construction BMP's are shown in the construction plans and in the ESPCP plan. The post-construction BMP's for this project consist of permanent vegetation and in some areas sod will be used that will help stabilize slopes. The post-construction BMP's will provide permanent stabilization of the site and prevent abnormal transportation of sediment and pollutants into receiving waters.

SILT FENCE INSTALLATION WITH J HOOKS AND SPURS

Silt fence should never be run continuously. The silt fence should turn back into the fill or slope to create small pockets that trap silt and force stormwater to flow through the silt fence. This technique is called using J hooks (or spurs). The J hooks shall be utilized on all silt fences that are located around the perimeter of the project and along the toe of embankments or slopes. The J hooks shall be spaced in accordance with GDOT Construction Detail D-24C. The maximum J-hook spacing is reached when the top of the J hook is at the same elevation as the bottom of the immediately upgradient J hook. J Hooks shall be paid for as silt fence items per linear foot. All costs and other incidental items are included in cost of installing and maintaining the silt fence.

SITE STABILIZATION AND BMP MAINTENANCE MEASURES

See the Department's Standard Specifications (or Special Provisions) 161, 163, 165, 700, 711, and other contract documents for stabilization and maintenance measures.

WASTE DISPOSAL

Where attainable, locate waste collection areas, dumpsters, trash cans and portable toilets at least 50 feet away from streets, gutters, watercourses and storm drains. Secondary containment shall be provided around liquid waste collection areas to minimize the likelihood of contaminated discharges. The Contractor shall comply with applicable state and local waste storage and disposal regulations and obtain all necessary permits. Solid materials, including building materials, shall not be discharged to waters of the State, unless authorized by a Section 404 Permit.

NONSTORMWATER DISCHARGES

Nonstormwater discharges defined in Part III.A.2 of the NPDES Permit will be identified after construction has commenced. These discharges shall be subject to the same requirements as storm water discharges required by the Georgia Erosion and Sediment Control Act, the NPDES Permit, the Clean Water Act, the Manual for Erosion and Sediment Control in Georgia, Department Standards, and other contract documents. The NPDES does not authorize the discharge of soaps or solvents used in vehicle and equipment washing or the discharge of wastewater containing sludge, paint, oils, curing compounds, and other construction materials.

INSPECTIONS

The primary permittee (CITY OF SANDY SPRINGS) must retain the design professional who prepared the ESPCP, or an alternative design professional approved by EPD in writing, to inspect the installation of the initial sediment storage requirements and perimeter control BMP's within seven (7) days of installation over the entire infrastructure project. Alternatively, for linear infrastructure projects, the permittee must retain either of these personnel to inspect the initial sediment storage requirements and perimeter control BMP's for the initial segment, as defined by Part IV.A.5. of the current GAR100002 Permit, within seven (7) days of installation and all sediment basins within the entire linear infrastructure project within seven (7) days of installation. The inspecting design professional shall report the results to the primary permittee within seven (7) days, and the permittee must correct all deficiencies within two (2) business days of receipt of the inspection report, unless on-site weather conditions are such that more time is required. All other inspections shall be documented on the appropriate city inspection forms.

Failure to perform inspections as required by the contract documents shall result in the cessation of all construction activities with the exception of Traffic Control and Erosion Control. Continued failure to perform inspections shall result in non-refundable deductions as specified in the contract documents.

DEWATERING AND PUMPING ACTIVITIES

Any pumped discharge from an excavation or disturbed area shall be routed through an appropriately sized sediment basin, silt filter bag, or shall be treated equivalently with suitable BMP's. The contractor shall ensure the post BMP treated discharge is sheet flowing. Failure to create sheet flow will obligate the contractor to perform water quality sampling of pumped discharges. The contractor shall prepare sampling plans in accordance with the current GAR100002 NPDES permit by utilizing a Certified Design Professional. No separate payment will be made for water quality sampling of pump discharges.

OTHER CONTROLS

The Contractor shall follow this ESPCP and ensure and demonstrate compliance with all applicable State and/or local regulations for waste disposal, sanitary sewer and septic systems, and petroleum storage.

The Contractor shall control dust from the site in accordance with Section 161 of the current edition of the Department's Standard Specifications.

RETENTION OF RECORDS

The Department will retain all records related to the implementation of this ESPCP in accordance with Part IV.F of the General Permit GAR100002.

READY MIX CHUTE WASH DOWN

The washing of ready-mix concrete drums and dump truck bodies used in the delivery of Portland cement concrete is prohibited on this site.

In accordance with Standard Specification 107: Legal Regulations and Responsibility to the Public, only the discharge chute utilized in the delivery of Portland cement concrete may be rinsed free of fresh concrete remains. The Contractor shall excavate a pit outside of State water buffers, at least 25 feet from any storm drain and outside of the travelled way, including shoulders, for a wash-down pit. The pit shall be large enough to store all wash-down water without overtopping. Immediately after the wash-down operations are completed and after the wash-down water has soaked into the ground, the pit shall be filled in, and the ground above it shall be graded to match the elevation of the surrounding areas. Alternate wash-down plans must be approved by the Project Engineer.

Wash-down plans describe procedures that prevent wash-down water from entering streams and rivers. Never dispose of wash-down water down a storm drain. Establish a wash-down pit that includes the following: (1) a location away from any storm drain, stream, or river, (2) access to the vehicle being used for wash down, (3) sufficient volume for wash-down water, and (4) permission to use the area for wash down.

On sites where permission or access to excavate a wash-down pit is unavailable, the Contractor may have to wash-down into a sealable 55-gallon drum or other suitable container and then transport the container to a proper disposal site. For additional information, refer to the Georgia Small Business Environmental Assistance Program's "A Guide for Ready Mix Chute/Hopper Wash-down".



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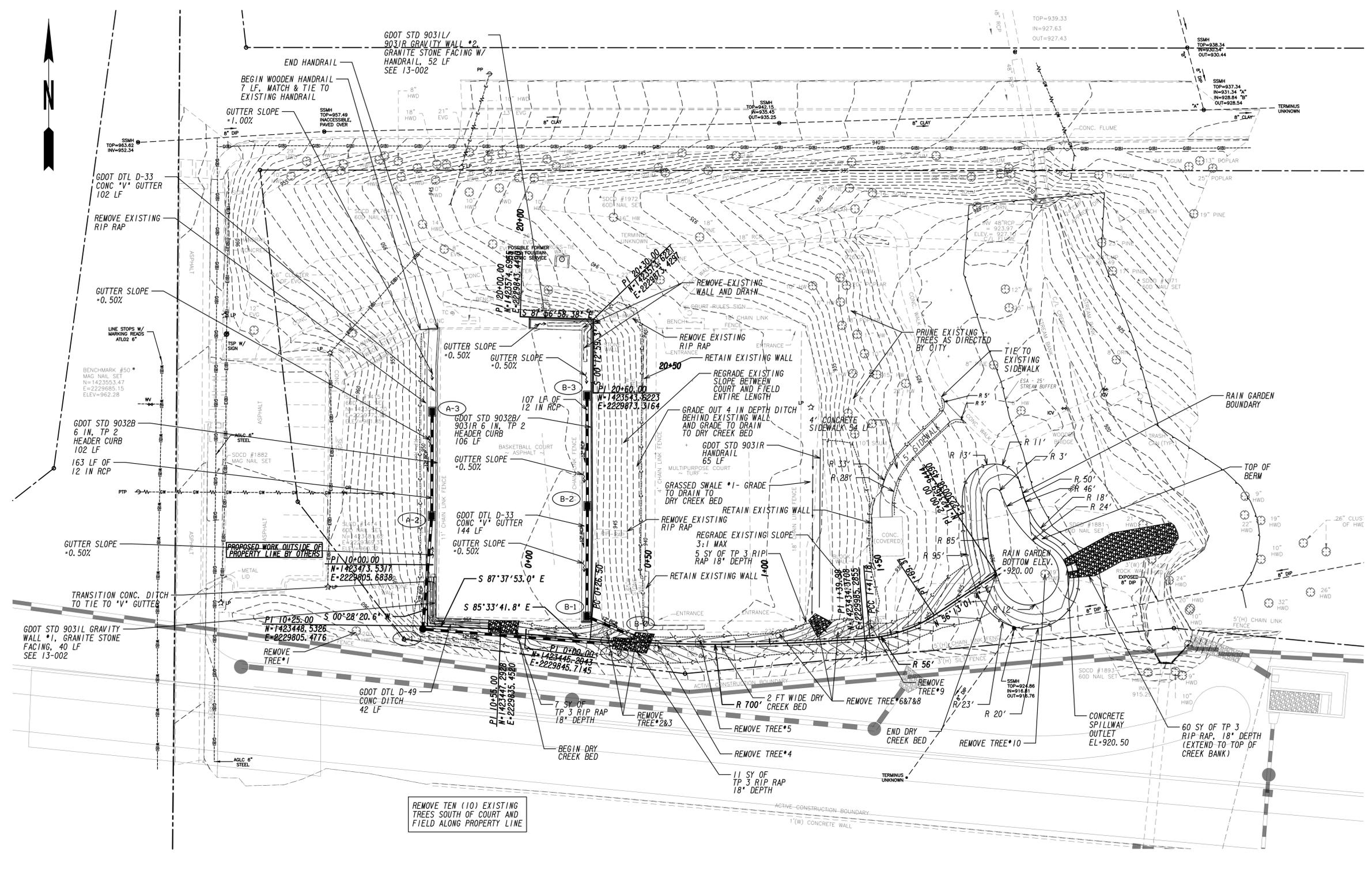


REVISION DATES

**CITY OF SANDY SPRINGS
BOARD OF COMMISSIONERS**

**ALLEN ROAD DRAINAGE PLAN
GENERAL NOTES**

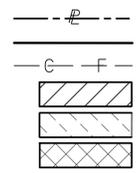
DRAWING No.
4-002



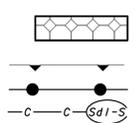
REMOVE TEN (10) EXISTING TREES SOUTH OF COURT AND FIELD ALONG PROPERTY LINE



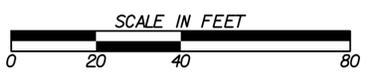
PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES



EASEMENT FOR CONSTR
 & MAINTENANCE OF DRAINAGE
 ENVIRONMENTALLY SENSITIVE AREA
 ORANGE BARRIER FENCE
 SILT FENCE



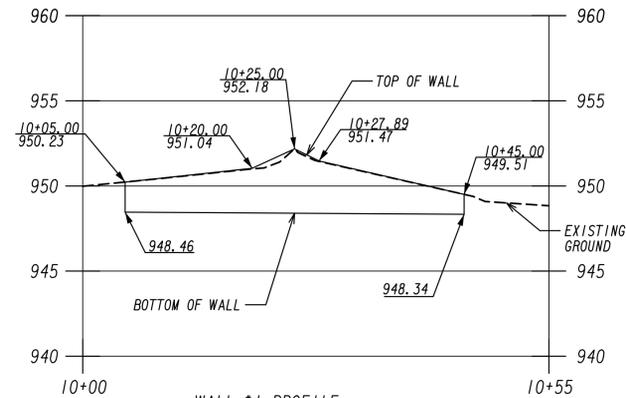
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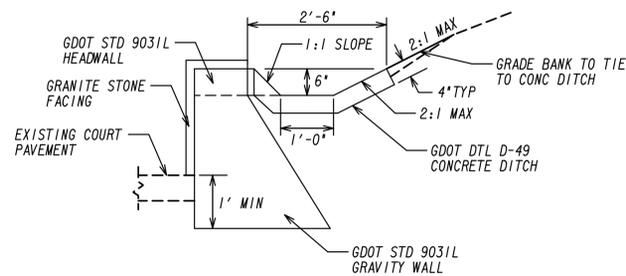
REVISION DATES	

CITY OF SANDY SPRINGS
 BOARD OF COMMISSIONERS
**ALLEN ROAD DRAINAGE PLAN
 CONSTRUCTION PLAN**

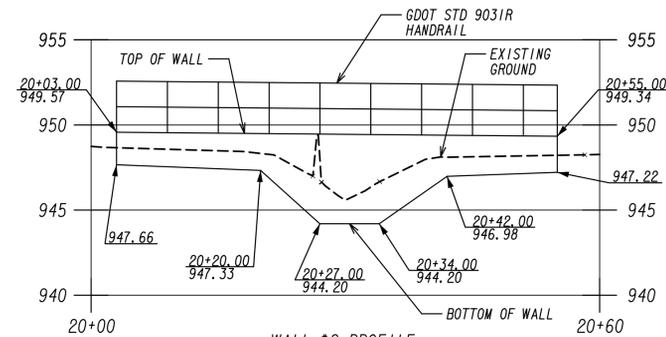
DRAWING No.
13-001



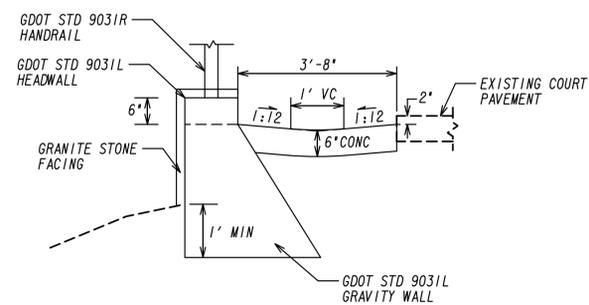
WALL #1 PROFILE
SCALE 1 Inch = 10 feet Vert.
SCALE 1 Inch = 20 feet Horiz.



WALL #1 TYPICAL SECTION
NOT TO SCALE



WALL #2 PROFILE
SCALE 1 Inch = 10 feet Vert.
SCALE 1 Inch = 20 feet Horiz.



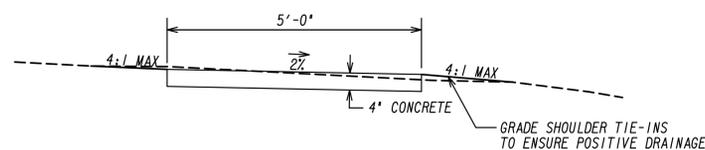
WALL #2 TYPICAL SECTION
NOT TO SCALE

DRAINAGE PIPE/STRUCTURE SUMMARY TABLE

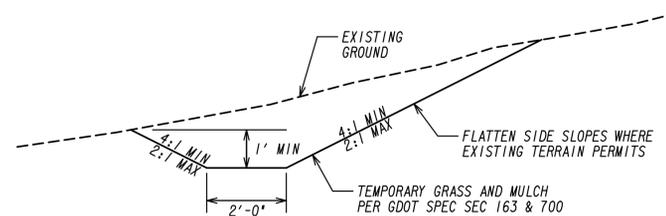
Structure	GDOT Standard/Detail	Top Elevation	Invert Elevation	Pipe Diameter	Pipe Length (ft)	Pipe Slope
A-3	D-33	949.26	946.26	12"	43	1.07%
A-2	D-33	949.05	945.80	12"	47	0.64%
A-1	1011A	953.77	945.50	12"	74	0.68%
A-0	FLARED END SECTION	-	945.00	-	-	-
B-3	D-33	948.61	945.61	12"	46	1.04%
B-2	D-33	948.38	945.13	12"	46	1.02%
B-1	D-33	948.16	944.66	12"	17	18.94%
B-0	FLARED END SECTION	-	941.44	-	-	-

SUMMARY OF FLOW DATA

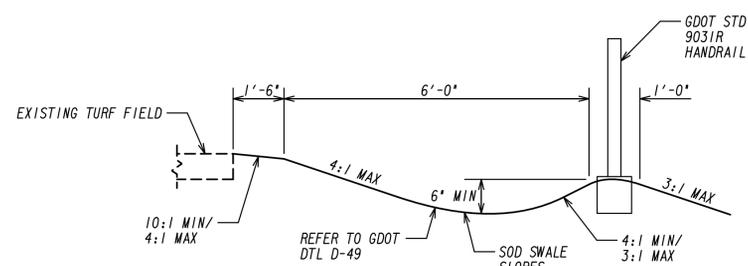
TOTAL PROJECT DRAINAGE AREA	TOTAL DISTURBED AREA	PRE					POST				
		Q10 (CFS)	Q25 (CFS)	Q50 (CFS)	Q100 (CFS)	C	Q10 (CFS)	Q25 (CFS)	Q50 (CFS)	Q100 (CFS)	C
1.418	0.343	4.55	5.42	6.10	6.85	0.41	4.09	4.87	5.49	6.16	0.37



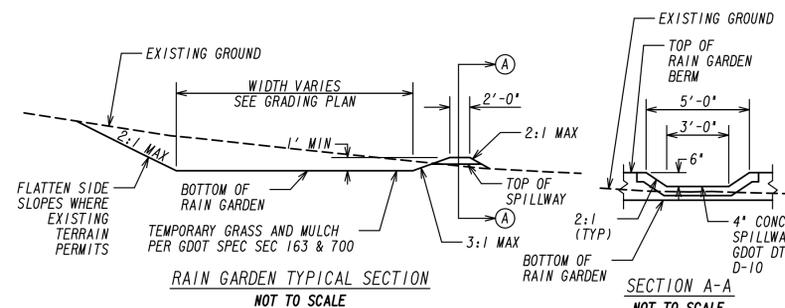
SIDEWALK TYPICAL SECTION
NOT TO SCALE



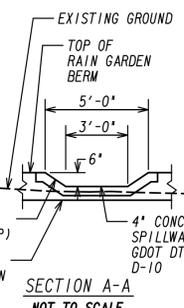
DRY CREEK BED TYPICAL SECTION
NOT TO SCALE



GRASSED SWALE #1 TYPICAL SECTION
NOT TO SCALE



RAIN GARDEN TYPICAL SECTION
NOT TO SCALE



SECTION A-A
NOT TO SCALE



4/17/19

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ALLEN ROAD DRAINAGE PLAN
CONSTRUCTION PLAN

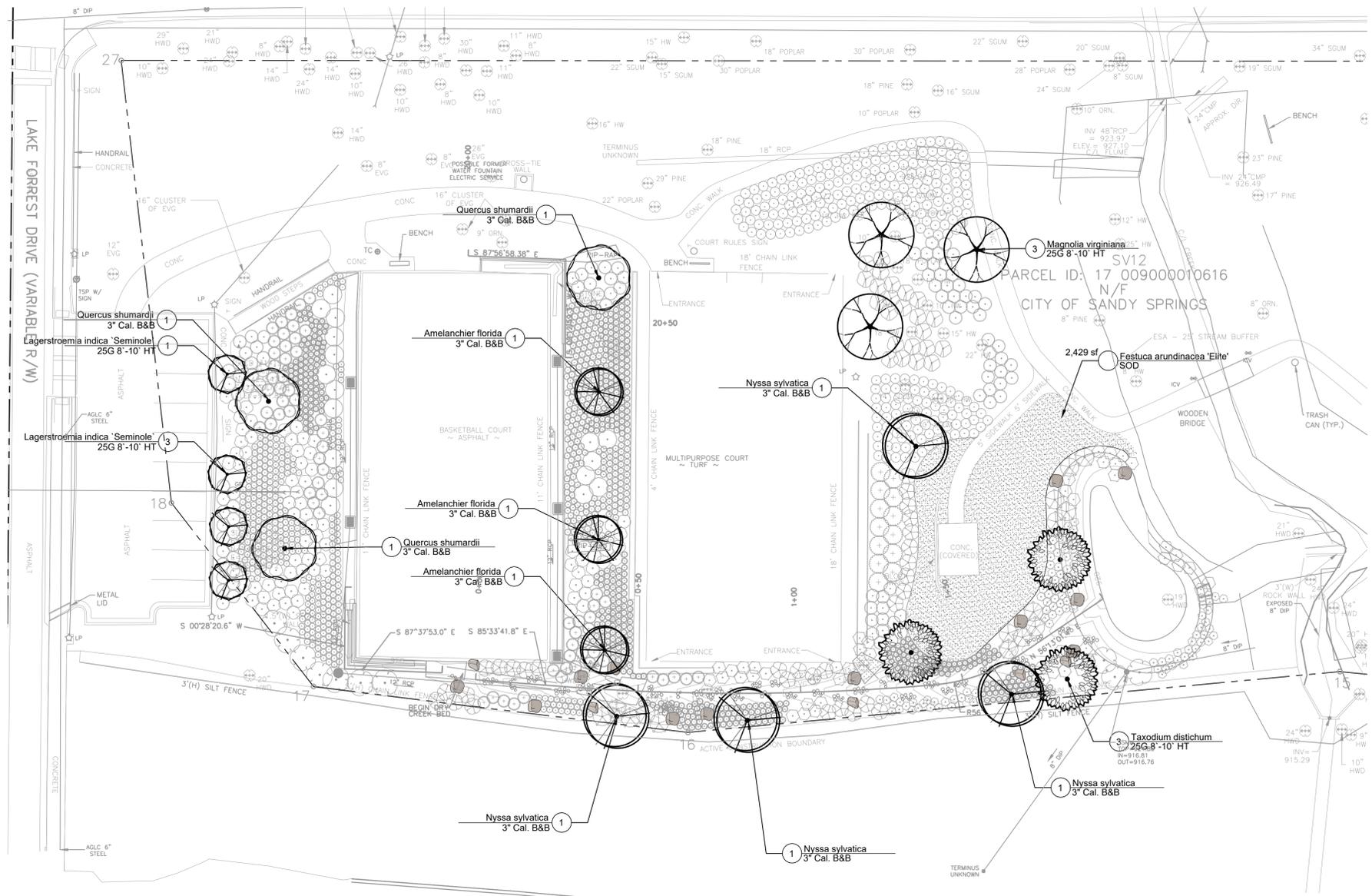
DRAWING No.
13-002

GENERAL SHEET NOTES

1. REFER TO SHEET L-001 FOR GENERAL LANDSCAPE NOTES, PLANTING SOIL MIX SPECIFICATIONS, AND WATERING NOTES.
2. THIS SHEET IS PART OF A MULTI-SHEET SET OF CONSTRUCTION PLANS AND SHALL BE READ WITH THE FULL SET TO BEST ENSURE PROPER INTERPRETATION.
3. CITY OF SANDY SPRINGS WILL INSTALL ALL TREES IN PROPOSED PLANS. TREES WILL BE PROVIDED THROUGH THE CITY OF SANDY SPRINGS TREE BANK. CONTRACTOR TO COORDINATE TREE LOCATIONS WITH CITY.

PLANT SCHEDULE

TREES	COMMON NAME / BOTANICAL NAME	CONT
3	PACIFIC SERVICEBERRY / AMELANCHIER FLORIDA	3" CAL. B&B
4	SEMINOLE CRAPE MYRTLE / LAGERSTROEMIA INDICA 'SEMINOLE'	25G 8'-10' HT
3	SWEET BAY / MAGNOLIA VIRGINIANA	25G 8'-10' HT
4	SOUR GUM / NYSSA SYLVATICA	3" CAL. B&B
3	SHUMARD RED OAK / QUERCUS SHUMARDII	3" CAL. B&B
3	BALD CYPRESS / TAXODIUM DISTICHUM	25G 8'-10' HT

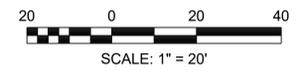


CITY OF SANDY SPRINGS
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**ALLEN ROAD DRAINAGE PLAN
 CONSTRUCTION PLAN**
 TREE LANDSCAPE PLAN

DRAWING No.
L-201



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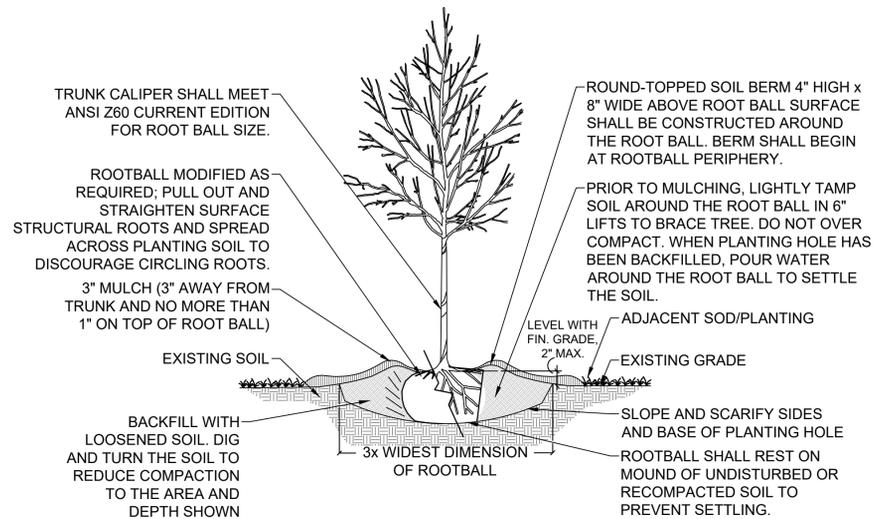
REVISION	DATE	DESCRIPTION

GENERAL TREE PLANTING NOTES:

- 1) WHEN THE TREE IS MOVED, THE ROOTBALL SHOULD ALWAYS BE SUPPORTED. TREES SHOULD NEVER BE HANDLED BY THE TRUNK.
- 2) SET TOP OF ROOT BALL A MINIMUM OF 2" ABOVE ADJACENT FINISH GRADE AND MOUND BACKFILL FLUSH WITH TOP OF ROOT BALL.
- 3) CUT AND BEND BACK TOP AND SIDES OF WIRE BASKET TO A MINIMUM OF 12" BELOW THE TOP OF THE ROOT BALL BEFORE FINAL BACKFILLING OF ROOT BALL.
- 4) CUT AND REMOVE BURLAP AND TWINE FROM TOP HALF OF BALL AFTER THE BALL HAS BEEN BACKFILLED.
- 5) REMOVE EXCESS SUBSTRATE/SOIL AND SURFACE ROOTS TO EXPOSE ROOT COLLAR. REMOVE CIRCLING STRUCTURAL ROOTS INTERFERING WITH ROOT COLLAR.
- 6) SCARIFY ROOT BALL ON ALL SIDES TO ENCOURAGE FEEDER ROOT GROWTH.
- 7) WATERING BAGS ARE RECOMMENDED FOR NEWLY PLANTED TREES IF SITE IS NOT IRRIGATED.
- 8) CONFIRM GOOD CENTRAL LEADER; CORRECT CROWN BY PRUNING IF DETERMINED NECESSARY. REMOVE ANY DEAD BRANCHES AND TRIM BROKEN OR CROSSED BRANCHES. NEVER LEAVE V CROTCHES OR DOUBLE LEADERS.

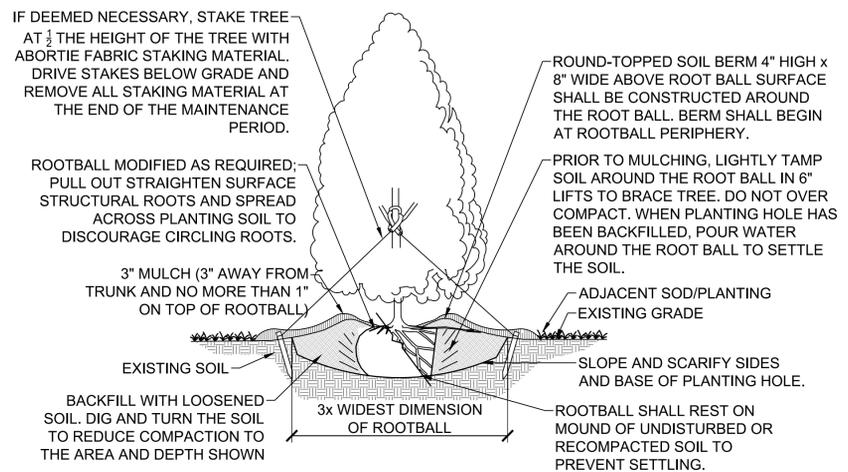
1 GENERAL TREE PLANTING DETAILS

SCALE: NTS



2 BALLED AND BURLAPPED / CONTAINER GROWN TREE PLANTING

SCALE: NTS

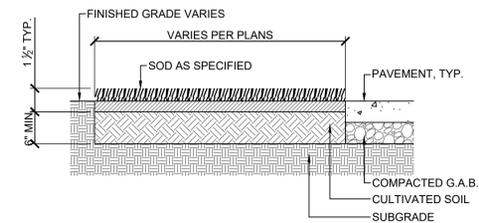


3 EVERGREEN BALLED AND BURLAPPED / CONTAINER GROWN PLANTING

SCALE: NTS

4 SODDING DETAIL

SCALE: NTS

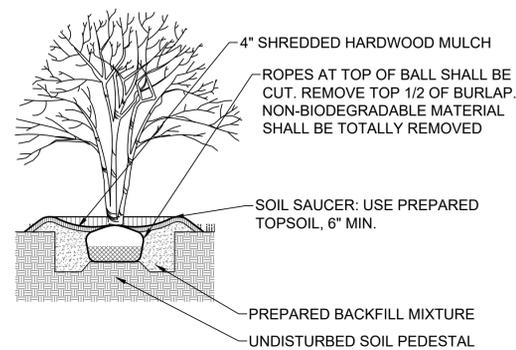


SODDING PROCEDURE:

1. THE GENERAL CONTRACTOR WILL PROVIDE GRADES TO +/- TWO TENTHS (0.20) OF A FOOT OF PROPOSED GRADES.
2. INSTALL SOD SO THAT TOP OF SOIL AND ROOT LAYER IS LEVEL WITH TOP OF ANY ADJACENT PAVEMENT.
3. BREAK THROUGH AND REMOVE ALL SUBGRADE SURFACE 'HARDPAN' AND DEBRIS TO ALLOW PERCOLATION AND POSITIVE DRAINAGE.
4. ADD 1" MIN. ADDITIVES, SUCH AS TOPSOIL, SAND OR COMPOST (PER SOIL TEST ANALYSIS) AND ROTOTILL INTO SUBGRADE. CULTIVATE ENTIRE AREA TO A MINIMUM DEPTH OF 6". HANDRAKE SMOOTH.
5. WATER AREA TO BE SODDED PRIOR TO LAYING SOD.
6. LAY & ROLL SOD. WATER THOROUGHLY.

7 EDGING DETAIL

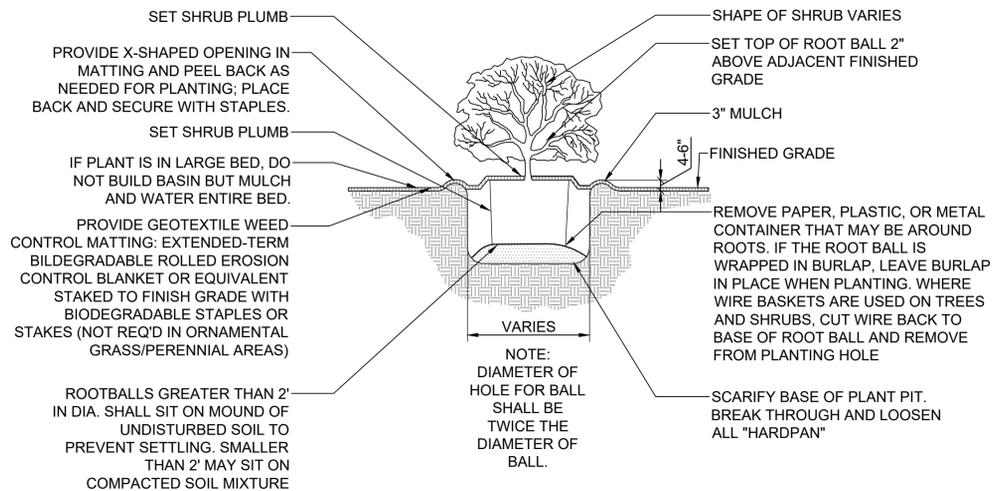
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- NOTE:**
1. TRENCH EDGE DETAIL SHALL BE USED AT ALL LAWN EDGES & AT EDGES OF MULCHED AREAS (FOR CONTAINMENT).
 2. TRENCH EDGE SHALL CREATE A CLEAN SEPARATION BETWEEN AREAS, & SHALL CREATE SMOOTH & EVEN LINES (AS INDICATED ON THE PLANS).

5 SHRUB PLANTING

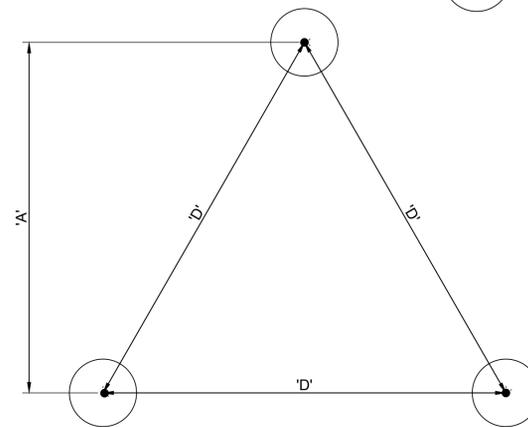
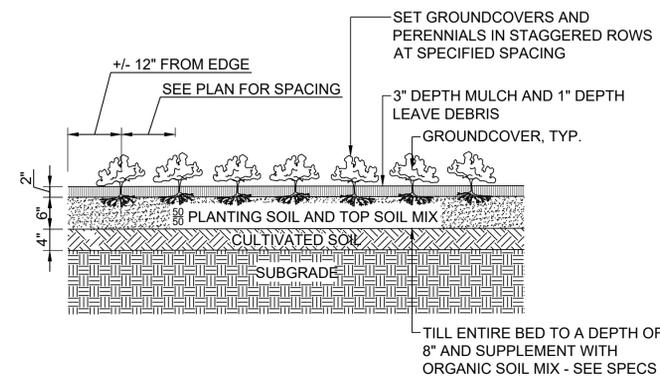
SCALE: NTS



8 MULTI-STEM TREE PLANTING

SCALE: NTS

NOTES: GROUNDCOVERS, PERENNIALS, AND GRASSES TO BE INSTALLED WITH TRIANGULAR SPACING.



PLANT SPACING 'D'	ROW 'A'
8" O.C.	7.00' O.C.
10" O.C.	8.5" O.C.
12" O.C.	10.5" O.C.
18" O.C.	15.5" O.C.
24" O.C.	21.0" O.C.
36" O.C.	30.0" O.C.
48" O.C.	31.5" O.C.

6 GROUNDCOVER / PERENNIAL PLANTING & SPACING CHART

SCALE: NTS



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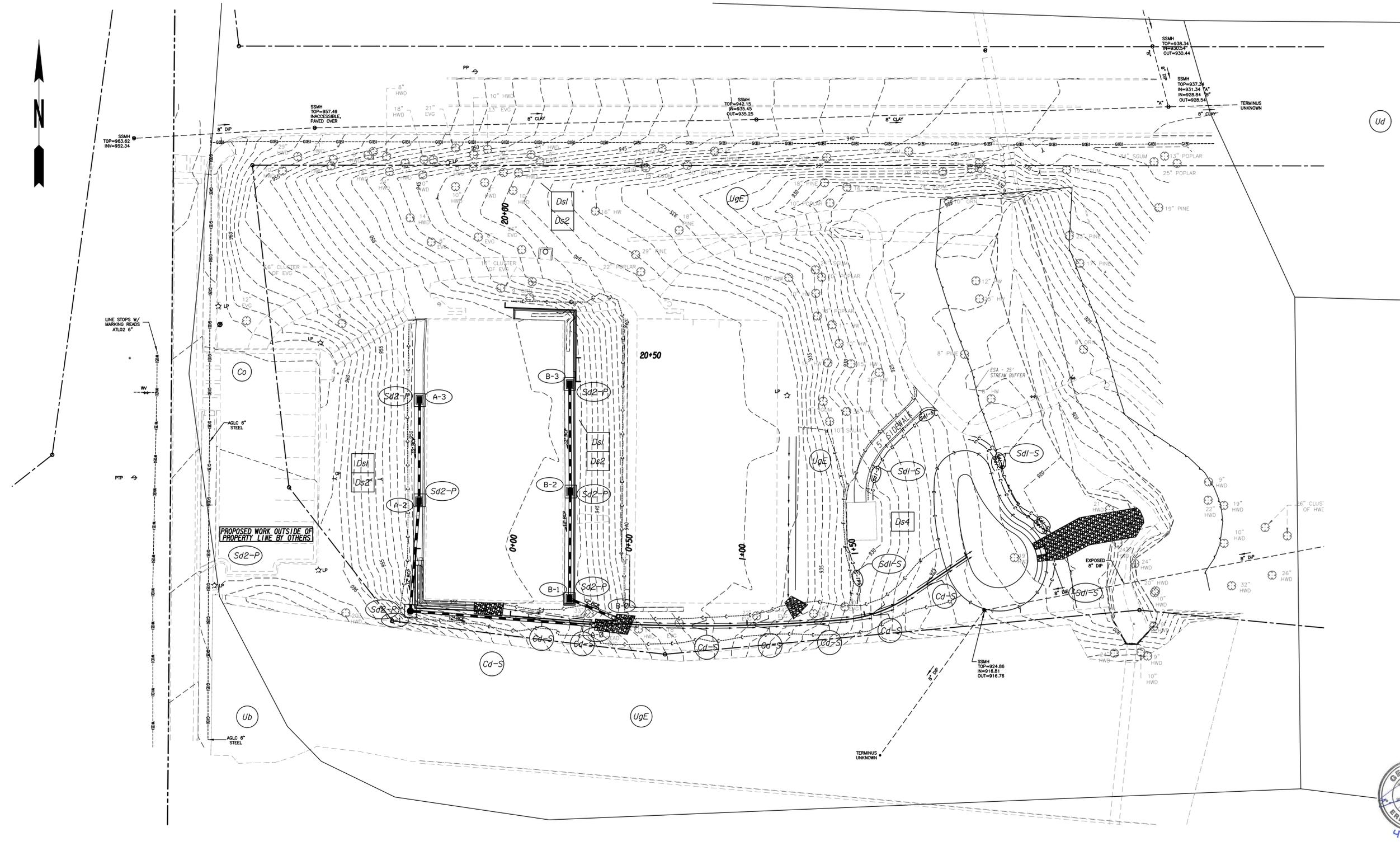
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**ALLEN ROAD DRAINAGE PLAN
 CONSTRUCTION PLAN**

LANDSCAPE DETAILS

DRAWING No. **L-501**



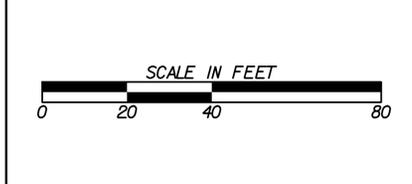
PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

EASEMENT FOR CONSTR
 & MAINTENANCE OF DRAINAGE
 ENVIRONMENTALLY SENSITIVE AREA
 ORANGE BARRIER FENCE
 SILT FENCE

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**ALLEN ROAD DRAINAGE PLAN
 BMP LOCATION DETAILS**

DRAWING No.
54-001