



**Vestavia Hills
Design Review Board Agenda
July 8, 2025
6:00 PM**

1. Call to Order
2. Roll Call
3. Approval Of Minutes
4. **DRB-25-11** ABS 1, LLC is requesting **Architectural Review, Landscape Review, & Final Review Of Materials** for the property located at 1090 Lantern Way. The purpose of this request is for a new building. The property is owned by ABS 1, LLC and zoned Vestavia Hills PB.
5. **DRB-25-12** Hub In The Hills, Inc. is requesting **Landscape Review** for the property located at 1289 Montgomery Hwy. The purpose of this request is for a new new landscaping plan. The property is owned by Hub In The Hills, Inc. and zoned Vestavia Hills Inst.
6. Time Of Adjournment

CITY OF VESTAVIA HILLS

DESIGN REVIEW BOARD

MINUTES

MAY 1, 2025

The Vestavia Hills Landscape and Architectural Control Board met in a regular session on this date at 6:00 PM. The roll was called with the following:

MEMBERS PRESENT: Phil Kennedy, Chairman
David Giddens
Mae Coshatt
John Wood
Joe Ellis

MEMBERS ABSENT: Chris Pugh
Jeff Slaton

OTHER OFFICIALS PRESENT: Conrad Garrison, City Planner

APPROVAL OF MINUTES

The minutes for April were presented for approval.

MOTION Motion to dispense with the reading of the minutes for April was made by Ms. Coshatt and 2nd was by Mr. Wood. Motion as carried on a voice vote as follows:

Mrs. Coshatt – yes	Mr. Ellis– yes
Mr. Giddens – yes	Mr. Wood – yes
Mr. Kennedy – yes	
Motion carries.	

ARCHITECTURAL REVIEW, LANDSCAPE REVIEW & FINAL REVIEW OF MATERIALS

D-25-6 Neil Shah is requesting **Architectural Review, Landscape Review, & Final Review Of Materials** for the property located at 1030 S. Liberty Rd. The purpose of this request is for a new building. The property is owned by Neil Shah and zoned Vestavia Hills PB.

There was no one present to explain the application. The Board agreed to postpone the case until the following month.

Conrad Garrison
City Planner

CITY OF VESTAVIA HILLS

DESIGN REVIEW BOARD

MINUTES

JUNE 5, 2025

The Vestavia Hills Landscape and Architectural Control Board met in a regular session on this date at 6:00 PM. The roll was called with the following:

MEMBERS PRESENT: Phil Kennedy, Chairman
David Giddens
Mae Coshatt
John Wood
Joe Ellis
Chris Pugh
Jeff Slaton

MEMBERS ABSENT:

OTHER OFFICIALS PRESENT: Conrad Garrison, City Planner

ARCHITECTURAL REVIEW, LANDSCAPE REVIEW & FINAL REVIEW OF MATERIALS

D-25-6 Neil Shah is requesting **Architectural Review, Landscape Review, & Final Review Of Materials** for the property located at 1030 S. Liberty Rd. The purpose of this request is for a new building. The property is owned by Neil Shah and zoned Vestavia Hills PB.

Chris Evans was present to explain the plan and the approval from the Liberty Park ARC.

The Board agreed with the plan.

MOTION Motion to approve Architectural Review, Final Review of Materials, & Landscape Review Of Materials For 1030 S. Liberty Rd. was made by Mrs. Coshatt. Second was made by Mr. Pugh. Voice vote as follows:

Mrs. Coshatt – yes
Mr. Pugh – yes
Mr. Wood – yes
Mr. Kennedy – yes
Motion carries.
Mr. Slaton– yes
Mr. Giddens – yes
Mr. Ellis – yes

ARCHITECTURAL REVIEW, LANDSCAPE REVIEW & FINAL REVIEW OF MATERIALS

D-25-8 VOP 100, LLC is requesting Architectural Review, Landscape Review, & Final Review Of Materials for the property located at 100 Vestavia Pkwy. The purpose of this request is for renovation to an existing building. The property is owned by VOP 100, LLC and zoned Vestavia Hills O-1.

Bill Meadows was present to explain the plan.

The Board agreed with the plan.

MOTION Motion to approve Architectural Review, Final Review of Materials, & Landscape Review Of Materials For 100 Vestavia Pkwy. was made by Mr. Wood. Second was made by Mr. Giddens. Voice vote as follows:

- | | |
|--------------------|-------------------|
| Mrs. Coshatt – yes | Mr. Slaton– yes |
| Mr. Pugh – yes | Mr. Giddens – yes |
| Mr. Wood – yes | Mr. Ellis – yes |
| Mr. Kennedy – yes | |
| Motion carries. | |

LANDSCAPE REVIEW

D-25-9 LPJV is requesting Landscape Review for the property located at 3346 Endeavor Ln. The purpose of this request is for a lawn. The property is owned by LPJV and zoned Vestavia Hills PR-1.

Reid Fincher was present to explain the plan and the approval from the Liberty Park ARC.

The Board agreed with the plan.

MOTION Motion to approve Landscape Review For 3346 Endeavor Ln. was made by Mr. Ellis. Second was made by Mr. Slaton. Voice vote as follows:

- | | |
|--------------------|-------------------|
| Mrs. Coshatt – yes | Mr. Slaton– yes |
| Mr. Pugh – yes | Mr. Giddens – yes |
| Mr. Wood – yes | Mr. Ellis – yes |
| Mr. Kennedy – yes | |
| Motion carries. | |

ARCHITECTURAL REVIEW, LANDSCAPE REVIEW & FINAL REVIEW OF MATERIALS

D-25-10 Parc Holdings, LLC is requesting Architectural Review, Landscape Review, & Final Review Of Materials for the property located at 4564 Pine Tree Cir. The purpose of this request is for a new building. The property is owned by Parc Holdings, LLC and zoned Vestavia Hills O-1.

Brian Cobb was present to explain the plan.

The Board agreed with the plan but encouraged the applicants to lift the height of the door arch to match the roof line.

MOTION Motion to approve Architectural Review, Final Review of Materials, & Landscape Review Of Materials For 4564 Pine Tree Cir. was made by Mr. Wood. Second was made by Mr. Giddens. Voice vote as follows:

Mrs. Coshatt – yes

Mr. Pugh – yes

Mr. Wood – yes

Mr. Kennedy – yes

Motion carries.

Mr. Slaton– yes

Mr. Giddens – yes

Mr. Ellis – yes




Conrad Garrison
City Planner

Design Review Board Application

Applicant

Primary Location

DRB-25-11

 Adam Scott
 205-541-6705
 abartonscott@gmail.com

1031 SOUTH LIBERTY RD
VESTAVIA HILLS, AL 35242

Submitted On: Jun 18, 2025

User Advisory

Owner of Property

Name	Address
ABS 1, LLC	7313 Kings Mountain PI
City	State
Vestavia	AL
Zip Code	Phone Number
35242	205-541-6705
Email	
abartonscott@gmail.com	

Billing/Responsible Party

Name	Address
ABS 1, LLC	7313 Kings Mountain PI
City	State
Vestavia	AL
Zip Code	Phone Number
35242	205-541-6705
Email	
abartonscott@gmail.com	

Representing Attorney/Other Agent

Name	Address
--	--
City	State
--	--
Zip Code	Phone Number
--	--
Email	
--	

Description of Property

Subject Property Address

TBD

Property Zoning Classification

PB in the Liberty Park PUD Ordinance 3125

Subdivision Name, Lot #, Block #, etc.

Lot 3D, according to the Resurvey of Lot 3A of a Resurvey of Lot 3 of the Bray Town Center Phase II.

Reason for Request

Check all that apply

Preliminary Review

--

Landscape Review

true

Architectural Review

true

Final Review of Materials

true

Other

--

Detailed Explanation

--

Process

Check all that apply

New Building

true

Renovation of Existing Building

--

New Landscape Plan

true

Renovation to Existing Landscaping Plan

--

Other

--

Detailed Explanation

--

Affidavit:

I do hereby declare the above statements are true and that I, the owner, and/or my duly appointed representative will be at the scheduled hearing. Simultaneously with the submittal of this application, I am hereby submitting a notarized affidavit signed by the owner of the property in the attachments section of this application. NOTE: Applications cannot be processed without the notarized owners affidavit.

Review Requirements

The following information and exhibits shall be provided and presented on your proposed project for review. The Board will review the three project components at the meeting. The Board must approve all three components before any permit is issued. A design professional, owner, or owner representative with knowledge of design elements and project provisions should represent the project to the committee.

General: Provide three copies and one digital copy (pdf format) of all drawings or plans required below for review. Drawings must be to scale. These drawings should be turned in with the application. Drawings shall be folded to size 8 ½" by 11".

1. Architectural Review

- a. Site plan showing roadways, entrances, exits and parking
- b. Building elevations showing construction material, material colors, context, and protrusions. Color rendering is preferred. Roof design must be detailed.
- c. Presentation by architect or owner with knowledge of compatibility with adjacent structures, city context, etc.

2. Landscape Review

- a. Site plan showing contours, drainage containment areas, parking spaces, sidewalks, buffers, site lighting and details, etc.
- b. Landscape plan showing planting materials, designations, size, potted planting, window boxes, vines, etc. Trees will be identified by botanical name, quantity, and caliper. Shrubs will be identified by botanical name, quantity, and container size. Differentiate between existing and new landscaping.
- c. Parking lots: Provide calculations of total square footage and square footage designed for landscaping. Indicate handicapped spaces. Indicate size of parking spaces.
- d. Irrigation plan for all landscaped areas.
- e. Statement of maintenance policy and provisions.



MEMO

Kris Reek
Chairperson – Liberty Park Architectural Review Committee
Liberty Park Master Association
1000 Urban Center Drive, Suite 235
Vestavia Hills, AL 35242
Phone: 205.945.6560 ♦ email: kreek@libertypark.com

TO: Adam Scott
FROM: Kris Reek *KR*
CC: John Gunderson, James Parsons
DATE: 6-12-25
SUBJECT: Day Spa ARC Approval

We have received and reviewed your formal submittal of the Day Spa on Tuesday, June 10th. After reviewing drawings and materials with you, we have voted to Approve the Day Spa Building and site plan based on the submittal provided on June 10, 2025.

We request that you provide us a sign package once you finalize details on the medallion sign facing South Liberty Road. Thank you.

Sincerely,
KReek
Kris Reek, Chairperson
Liberty Park Architectural Review Committee

IMPORTANT NOTICE- READ CAREFULLY

Any revisions, modifications or changes to these plans and specifications, as approved or “approved as noted” by the Liberty Park Architectural Review Committee (ARC), must be submitted to and approved by the ARC in the same manner as the original submittal. If the ARC determines that these plans and specifications, approved or “approved as noted by the ARC”, are not being complied with, the owner of the subject property shall be deemed to have violated the Covenants, Conditions and Restrictions applicable to such property. In that event, the ARC and/or the Liberty Park Master Owners’ Association, Inc. shall have the right to exercise any of the rights of enforcement and remedies available to those entities as set forth in the Covenants, including but not limited to levying fines and/or placing a lien on the subject property.

The owner of the subject property, or the owner’s authorized representative, acknowledges receipt of these approved or “approved as noted” plans and specifications and agrees to all conditions, notations, limitations, and revisions set forth herein.

LIBERTY PARK
 ARCHITECTURAL REVIEW COMMITTEE (ARC)
 1000 Urban Center Drive, Suite 235, Vestavia, AL 35242
 205-945-6562, liblty@rhmllc.org

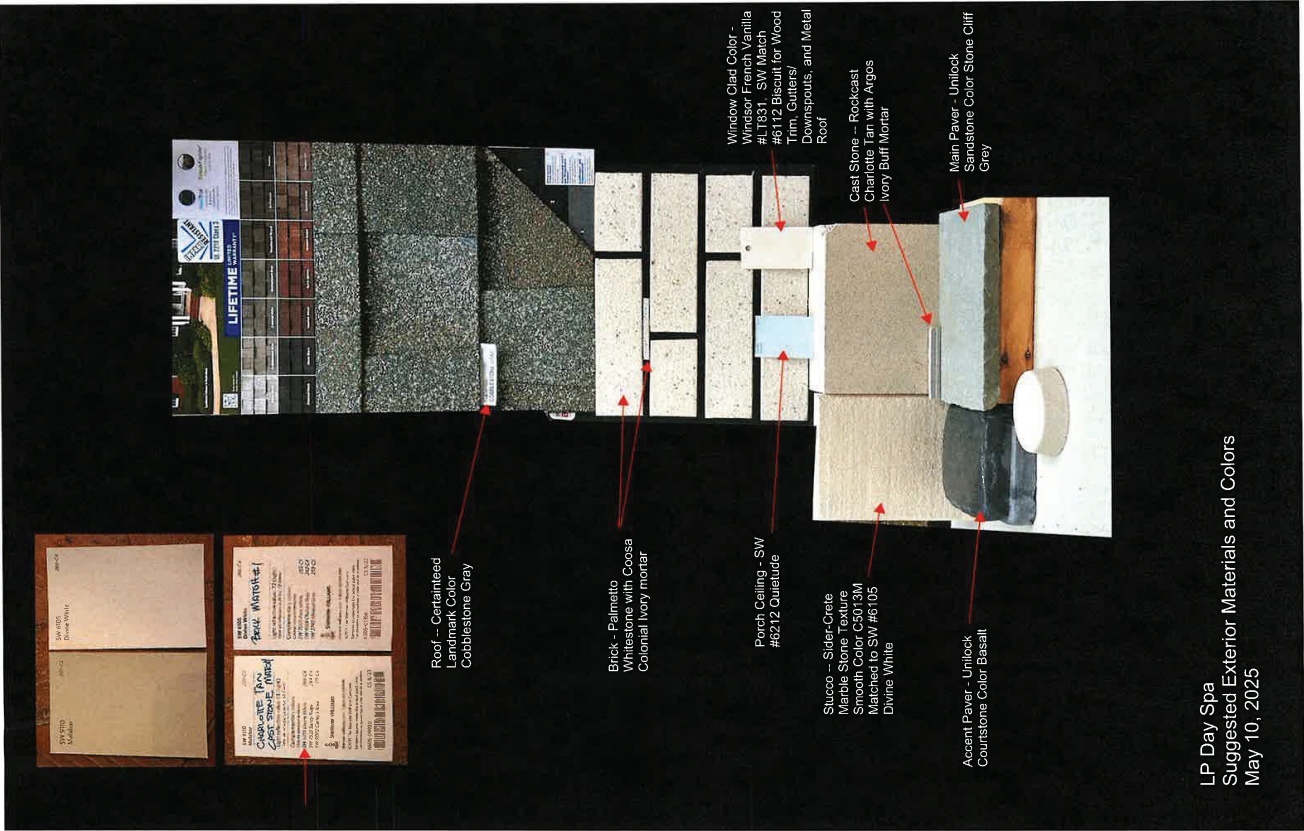
COMMERCIAL COLOR PLAN REVIEW FORM

Approved _____ Date Submitted _____ Date Reviewed _____
 Approved as Noted _____ Disapproved _____

LOT # _____
 Owner ABS 1, LLC (Adam Scott)
 Address: 7313 Kings Mountain Pl, Vestavia, AL 35242
 Contact: Adam Scott Phone #: _____
 Cell #: 205-541-6705 Email: abartonscott@gmail.com

BUILDER TBD
 Contact: _____ Phone # _____ Email Address _____
INTERIOR DESIGNER Gray Reese, LLC Architects
 Phone # 404-234-6002 Fax # _____ email: grayreese@gmail.com

Exterior Materials: Manufacturer/Company _____
 Brick Palmetto Whitestone Joint Concave or Flush TBD Mortar Color Coosa Colonial Ivory
 Precast Concrete: Pattern & Color Rockcast Charlotte Tan with Argos Ivory Buff Mortar
 Stone - Pattern & Color _____
 Glass w/ Spandrel Alum Clad Wood Windows Site Cast _____
 Wood Siding Cement Board for Trim Trim Color SW 6112 Biscuit
Roofing Material: Membrane, Cedar Shake, Shingle, Metal, Tile or Other. List: Asphalt Shingle and Metal
 Roof Color Asphalt Cobblestone Gray, Metal Biscuit Manufacturer Certaineed Landmark & Custom on Metal
 Roof Vents/Stacks Color Painted match Roof
 Gutter Material Aluminum Gutter Color Match Window/Trim Color (SW Biscuit)
 Window Color/Tint Clear -- LoE 366 Standard Manufacturer: Windsor Pinnacle Clad or equal
 Driveway Materials: Asphalt Color/Finish _____
 Sidewalk Materials: Concrete Color/Finish Standard Grey unless there is a color standard
 Retaining Wall Material Dry Stacked Stone: Brick (to match structure): _____



LP Day Spa
 Suggested Exterior Materials and Colors
 May 10, 2025

LIBERTY PARK DAY SPA VESTAVIA HILLS, ALABAMA

DRAWING INDEX

- TP1 TOPOGRAPHIC SURVEY
- C1-0 GENERAL NOTES
- C2-0 DEMOLITION PLAN
- C3-0 SITE LAYOUT PLAN
- C3-1 LAYOUT COORDINATE PLAN
- C4-0 GRADING & DRAINAGE PLAN
- C5-0 INITIAL EROSION & SEDIMENT CONTROL PLAN
- C5-1 INTERMEDIATE EROSION & SEDIMENT CONTROL PLAN
- C5-2 FINAL EROSION & SEDIMENT CONTROL PLAN
- C6-0 STORM PROFILE
- C7-0 SITE UTILITY PLAN
- C8-0 DETAILS
- C8-1 DETAILS
- C8-2 DETAILS
- C8-3 DETAILS
- C8-4 DETAILS



VICINITY MAP
N.T.S.

RELEASED FOR CONSTRUCTION
ALL WORK SHALL BE IN ACCORDANCE WITH ENVIRO
SERVICES, LLC SPECIFICATIONS.
THE PLANS ARE CONDITIONALLY RELEASED FOR CONSTRUCTION.
SIGNED:

_____ E.S. LLC REPRESENTATIVE	_____ DATE
_____ DEVELOPER	_____ DATE
_____ ENGINEER OF RECORD	_____ DATE

OWNER

ABS 1 LLC
7313 KINGS MOUNTAIN PLACE
VESTAVIA HILLS, AL 35242
CONTACT: ADAM SCOTT
PHONE: (205) 541-6405

CIVIL ENGINEER

SCHOEL ENGINEERING COMPANY, INC.
1001 22ND STREET SOUTH
BIRMINGHAM, AL 35205
CONTACT: ALEX PATILLO
PHONE: (205) 313-1138



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

DESCRIPTION	EXISTING	PROPOSED
MONUMENT	○	N/A
MAJOR CONTOURS	○	685
MINOR CONTOURS	○	686
SPOT ELEVATIONS	15.29	+503.26
TOP OF WALL ELEVATION	15.29TW	+503.26 TW
DESIGNATION	N/A	○
ROD CONCRETE PAVING	□	□
CONCRETE SEWALK	□	□
HEAVY DUTY ASPHALT	N/A	□
LIGHT DUTY ASPHALT	N/A	□
PROPERTY LINE	N/A	□
FENCE	□	□
COMMUNICATION BOX	□	□
ELECTRIC BOX	□	□
SANITARY SEWER MANHOLE	○	○
CLEANOUT	○	○
POWER POLE	○	○
LIGHT POLE	○	○
POWER METER	○	○
AIR CONDITIONING UNIT	○	○
WATER VALVE	○	○
FIRE HYDRANT	○	○
GAS VALVE	○	○
WATER METER	○	○
SIGN	○	○
GUY WIRE	○	○
GRATE INLET	○	○
STORM MANHOLE	○	○
SINGLE WIND INLET	○	○
DOUBLE WIND INLET	○	○
HEADWALL	○	○
STORM SEWER LINE	○	○
RAIN LEADER	○	○
DOMESTIC WATER LINE	○	○
UNDERGROUND TELEPHONE LINE	○	○
FIBER OPTIC LINE	○	○
OVERHEAD UTILITY LINE	○	○
UNDERGROUND ELECTRIC LINE	○	○
SANITARY SEWER LINE	○	○
UNDERGROUND GAS LINE	○	○
UNDERGROUND WATER LINE	○	○
TREES	○	○
TEMPORARY SILT FENCE	○	○
TEMPORARY STONE CHECK DAM	○	○
TEMPORARY INLET PROTECTION	○	○
PUMP STATION	○	○
FORCE MAIN	○	○
FIRE WATER LINE	○	○
FIRE DEPARTMENT CONNECTION	○	○
TRANSFORMER PAD	○	○
TRAFFIC SIGNAL POLE	○	○
FORCE MAIN WITH ARROW	○	○
CHILLED WATER RETURN	○	○
STEAM LINE	○	○
CABLE LINE	○	○
UNKNOWN UTILITIES	○	○
TRAFFIC CONTROL	○	○
STREET LIGHT	○	○
GPR LOCATION	○	○
GPR DEPTH	○	○

EXISTING PRESENT CONDITIONS PRIOR TO CONSTRUCTION
 PROPOSED PROPOSED BY THE SCOPE OF WORK

EXISTING PRESENT CONDITIONS PRIOR TO CONSTRUCTION

PROPOSED PROPOSED BY THE SCOPE OF WORK

EXISTING PRESENT CONDITIONS PRIOR TO CONSTRUCTION

1. THE SITE TOPOGRAPHY AND OTHER TOPOGRAPHIC DATA ARE FOR THE INFORMATION OF THE CONTRACTOR. THE CONDITIONS AS SHOWN ON THE PLANS ARE NOT TO BE CONSIDERED AS GUARANTEED. THE CONTRACTOR SHALL VERIFY THE ACCURACY OF THE DATA AND MAKE NECESSARY ADJUSTMENTS TO THE PLANS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AND UTILITIES AT ALL TIMES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES AND STRUCTURES. THE CONTRACTOR SHALL MAINTAIN THE EXISTING GRADING AND ELEVATIONS UNLESS OTHERWISE INDICATED ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AND UTILITIES AT ALL TIMES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES AND STRUCTURES. THE CONTRACTOR SHALL MAINTAIN THE EXISTING GRADING AND ELEVATIONS UNLESS OTHERWISE INDICATED ON THE PLANS.

EXISTING PRESENT CONDITIONS PRIOR TO CONSTRUCTION

2. THE MEASURES SHOWN ON THE PLANS ARE INTENDED FOR CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AND UTILITIES AT ALL TIMES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES AND STRUCTURES. THE CONTRACTOR SHALL MAINTAIN THE EXISTING GRADING AND ELEVATIONS UNLESS OTHERWISE INDICATED ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AND UTILITIES AT ALL TIMES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES AND STRUCTURES. THE CONTRACTOR SHALL MAINTAIN THE EXISTING GRADING AND ELEVATIONS UNLESS OTHERWISE INDICATED ON THE PLANS.

EXISTING PRESENT CONDITIONS PRIOR TO CONSTRUCTION

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EXISTING PRESENT CONDITIONS PRIOR TO CONSTRUCTION

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EXISTING PRESENT CONDITIONS PRIOR TO CONSTRUCTION

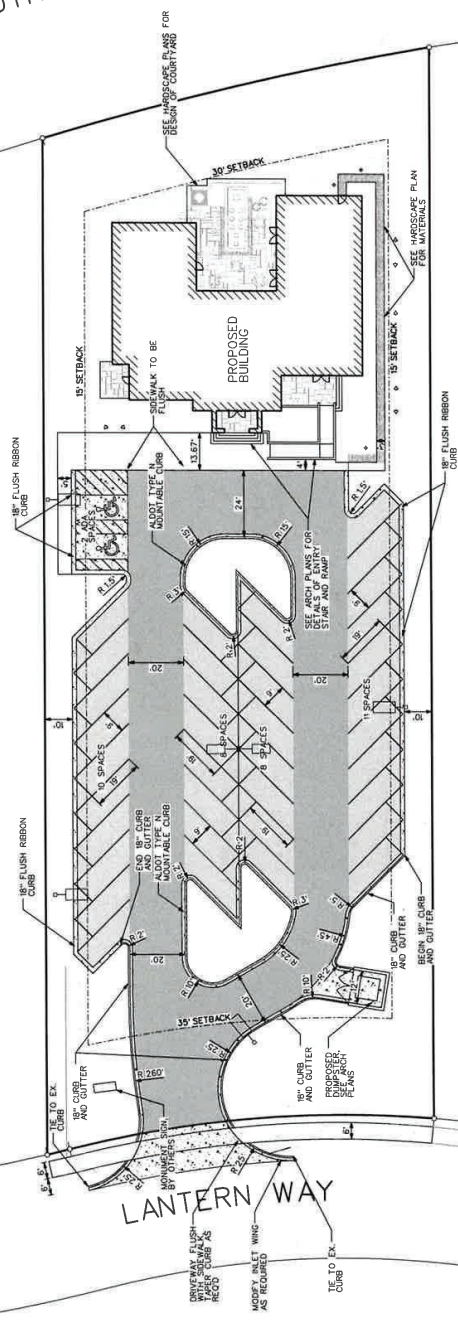
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- NOTES:**
1. ALL RIBBONS UNLESS OTHERWISE NOTED.
 2. ALL DIMENSIONS SHOWN CURB UNLESS OTHERWISE NOTED.
 3. CONTRACTOR MUST CHECK ALL DIMENSIONS BEFORE CONSTRUCTION. ALL DIMENSIONS SHALL BE IN HAND PRIOR TO CONSTRUCTION.
 4. CONTRACTOR MUST VERIFY THROUGH ARCHITECT THAT BUILDING FOOTPRINT IS CORRECT BEFORE USING THE LAYOUT PLAN TO CONSTRUCT THE PAVEMENT FOR ANY DAMAGE TO EXISTING UTILITIES OR STRUCTURES TO CONSTRUCTION OF THIS PROJECT. THE CONTRACTOR'S EXPENSE.
 5. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES OR STRUCTURES TO CONSTRUCTION OF THIS PROJECT. THE CONTRACTOR'S EXPENSE.
 6. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND PROPERTY LINES. ANY DISCREPANCY BETWEEN THE LAYOUT PLAN AND THE ACTUAL FIELD CONDITIONS SHALL BE AT THE CONTRACTOR'S EXPENSE.
 7. THE CONTRACTOR TO OBTAIN ALL PERMITS AND APPROVALS FROM ALL APPLICABLE AGENCIES MUST BE IN HAND PRIOR TO CONSTRUCTION.
 8. SEE LANDSCAPE PLANS FOR ADDITIONAL WORK.
 9. ALL STRIPING AND SPACING TO BE PER CITY OF VESTAVIA HILLS AND ALL SPECIALS SHALL HAVE A 2% MAXIMUM CROSS SLOPE IN THE DIRECTION OF TRAVEL. ALL CONCRETE SHALL BE 4000 PSI. ALL CONCRETE SHALL BE 28' IN ANY DIRECTION.
 10. ALL HAND-UP PARKING RAMP SLOPES SHALL NOT EXCEED 2%.
 11. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND PROPERTY LINES. ANY DISCREPANCY BETWEEN THE LAYOUT PLAN AND THE ACTUAL FIELD CONDITIONS SHALL BE AT THE CONTRACTOR'S EXPENSE.

PARKING TABLE	
STANDARD SPACES	37
ACCESSIBLE SPACES	2
TOTAL SPACES	39

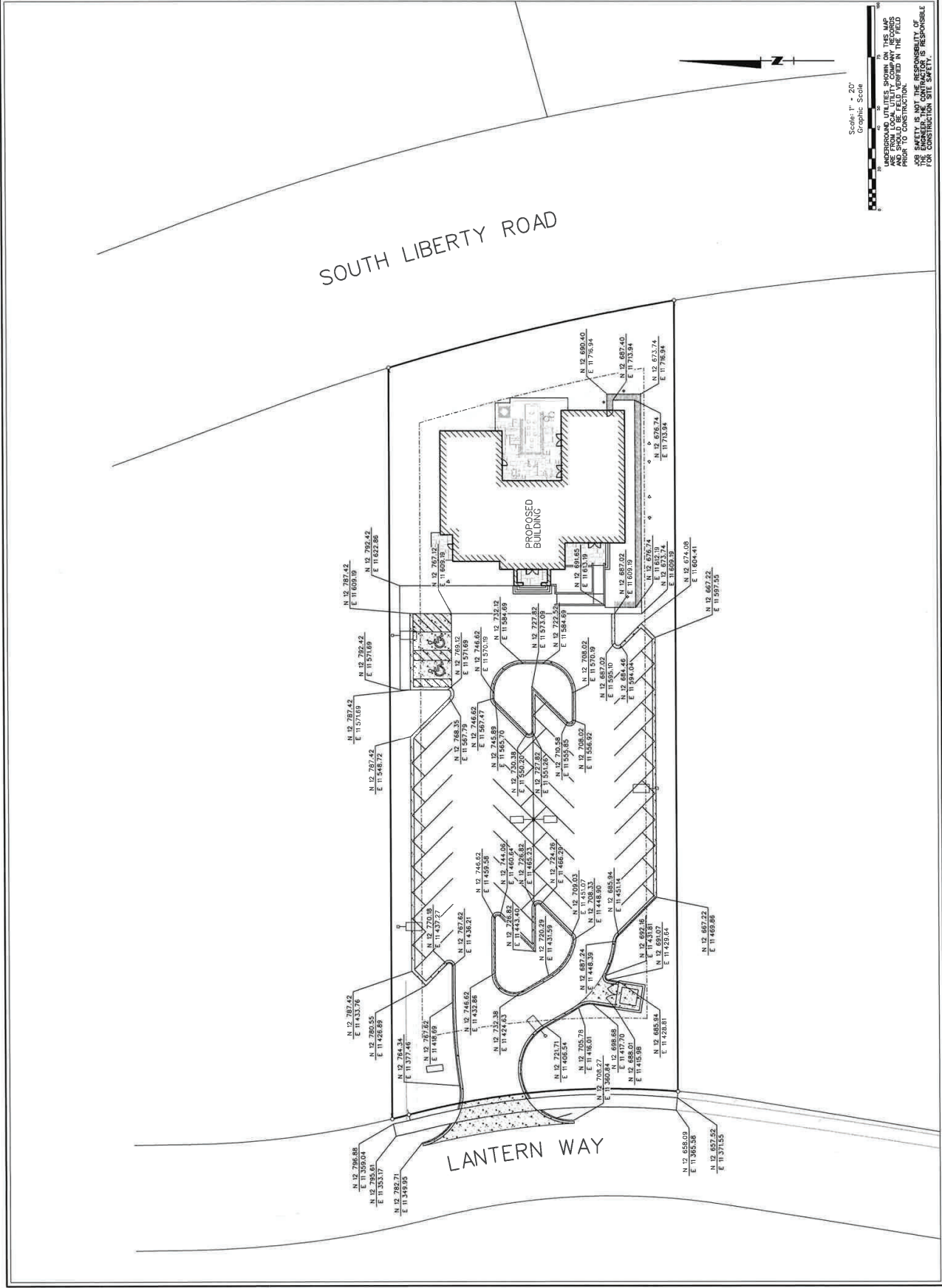
LEGEND	
	HEAVY DUTY ASPHALT
	LIGHT DUTY ASPHALT
	CONCRETE PAVING
	CONCRETE SIDEWALK

SOUTH LIBERTY ROAD



Scale: 1" = 20'
 Graphic Scale

UNDERGROUND UTILITIES SHOWN ON THIS MAP ARE NOT TO BE CONSIDERED AS A GUARANTEE AND SHOULD BE FIELD VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND DEPTH OF ALL UTILITIES FOR CONSTRUCTION SITE SAFETY.



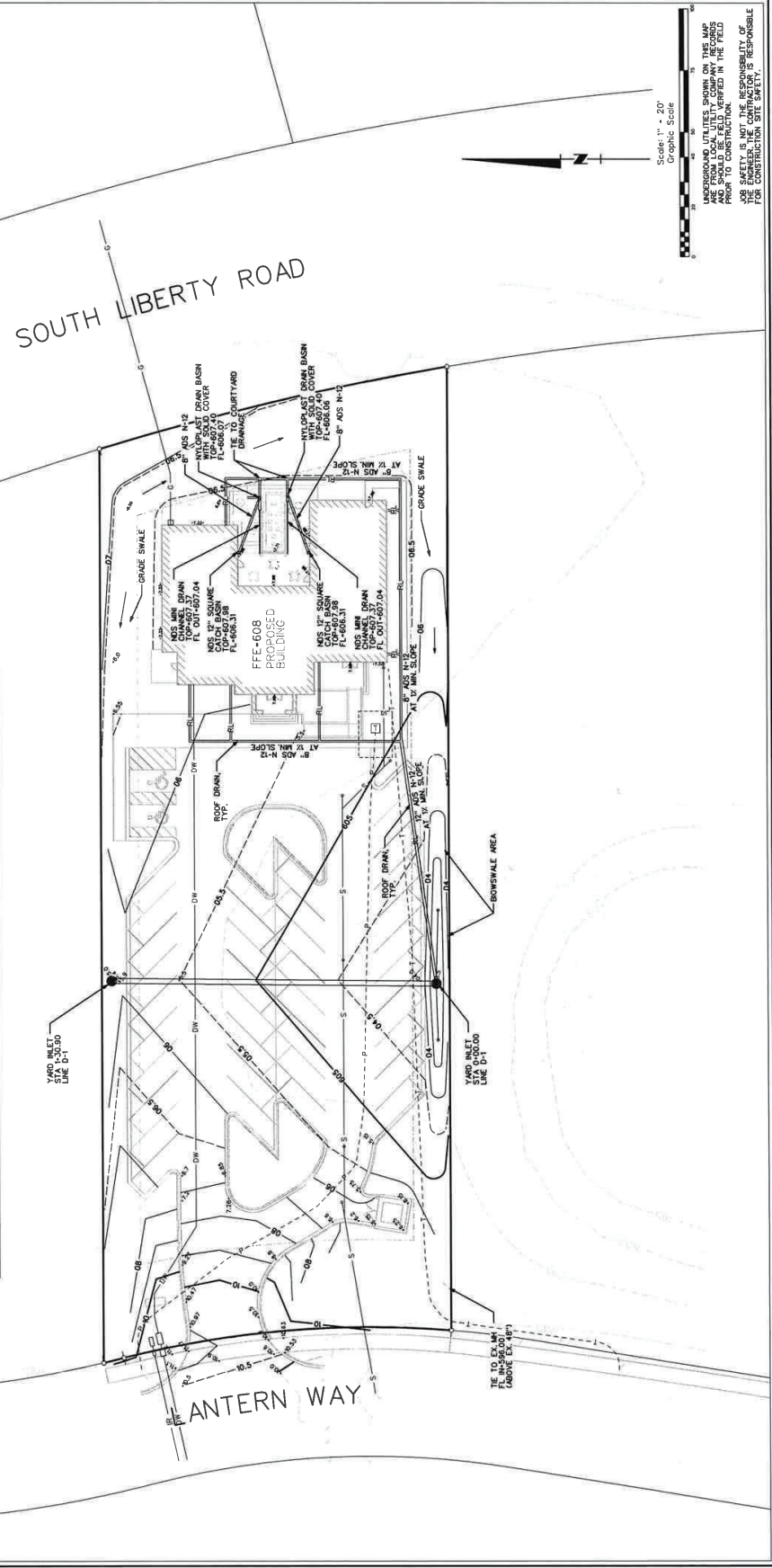
Scale: 1" = 20'
 Graphic Scale

UNDERGROUND UTILITIES SHOWN ON THIS MAP
 ARE NOT TO BE CONSIDERED AS ACCURATE
 AND SHOULD BE FIELD VERIFIED IN THE FIELD
 PRIOR TO CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE
 FOR VERIFYING THE LOCATION AND DEPTH OF ALL
 UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE
 FOR VERIFYING THE LOCATION AND DEPTH OF ALL
 UTILITIES PRIOR TO CONSTRUCTION.

CONTRACTOR TO COORDINATE ALL EARTHWORK WITH GEOTECHNICAL EVALUATION. CONTACT CITY OF VESTAVIA HILLS STORMWATER MANAGEMENT OFFICE TO SCHEDULE STORMWATER AND CIVIC CONSTRUCTION INSPECTIONS. PRIOR TO THE SYSTEM BEING ACCEPTED BY THE CITY OF VESTAVIA HILLS, AN AS-BUILT DRAWING OF THE SYSTEM MUST BE SUBMITTED.

ANY DISCREPANCIES IN THE PROPOSER'S WORK OR EXISTING CONDITIONS AS WELL AS QUESTIONS OR CONCORDANCE ITEMS, SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AS SOON AS POSSIBLE.
 ALL TOPSOIL SHALL BE STRIPPED WITHIN THE PROPOSED LIMITS OF THE GRADING AND DRAINAGE PLAN. TOPSOIL SHALL BE STORED IN A HEAVILY LOADED DAMP PRESSURE TIGHT CONTAINER OR COVERED WITH A HEAVILY LOADED DAMP PRESSURE TIGHT COVER. TOPSOIL SHALL BE TESTED AND FOUND TO BE FREE OF ANY ORGANIC MATTER, FERTILIZER, PESTICIDES, AND OTHER HAZARDOUS MATERIALS. TOPSOIL SHALL BE UNROOTED AND REPLACED WITH COMPACTED FILL MATERIAL. FILL MATERIAL SHALL HAVE THE FOLLOWING PROPERTIES: FREE OF ORGANICS AND ROCK FRAGMENTS GREATER THAN 3" WITHIN 4" OF SURFACE; MAXIMUM MOISTURE CONTENT SHALL NOT EXCEED 20%; MAXIMUM DRY DENSITY SHALL BE 95% OF 90% RELATIVE COMPACTION; AND WITHIN 2" OF OPTIMUM MOISTURE CONTENT.
 CLEARING LIMITS SHALL BE 2' OUTSIDE OF ALL PROPOSED GRADED AREAS OR NOT BEYOND THE UNIT BOUNDARY, WHICHEVER IS LESS. RIGHT-OF-WAY SHALL BE MAINTAINED THROUGHOUT THE ENTIRE PROJECT. COORDINATE THE SEQUENCING OF ALL GRADING OPERATIONS WITH THE BMP PLAN.
 ALL SLOPES SHALL BE TO BE FINISHED TO THE PROPOSED GRADING SHALL BE FINISHED TO THE PROPOSED GRADING. THE CONTRACTOR SHALL VERIFY THE EXISTING GRADES AND ELEVATIONS AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
 PROPOSED GRADES INDICATED ON THIS PLAN ARE NOT TO BE USED FOR TOP-SOIL, PAVING, BUILDING PAD, ETC. SEE SPECIFICATIONS FOR

GENERAL GRADING NOTES
 ALL GRADING OPERATIONS SHALL BE MONITORED BY A QUALIFIED GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE FOR THE ENTIRE DURATION OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING AND CONSULTING WITH THE ENGINEER OF ANY DISCREPANCIES OR CHANGES TO THE GRADING PLAN.
 ALL VEGETATION SHALL BE REMOVED FROM AREAS TO BE GRADED. TOPSOIL, ORGANICS, SOFT SOILS, MUD, AND SOILS THAT CANNOT BE RECLAIMED SHALL BE REMOVED FROM AREAS UNDER PROPOSED SIDEWALKS AND PAVING.
 THE PRACTICE OF FILLING IN LEETS MUST BE MAINTAINED AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF SOIL AND BROKEN DOWN INTO A 1.0 INCH LEET THROUGHOUT THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF SOIL AND BROKEN DOWN INTO A 1.0 INCH LEET THROUGHOUT THE PROJECT.
 UNSTABLE AND PAVING SUBGRADE CONDITIONS MAY OCCUR DURING THE GRADING PROCESS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF SOIL AND BROKEN DOWN INTO A 1.0 INCH LEET THROUGHOUT THE PROJECT.
 ANY EXCESS EXCAVATION CREATED BY GRADING OPERATIONS SHALL BE COVERED WITH A HEAVILY LOADED DAMP PRESSURE TIGHT COVER. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING IN-RUNWAY AWAY AND SIDEWALKS. THERE SHALL BE NO POONDING OF WATER ON THE SITE.



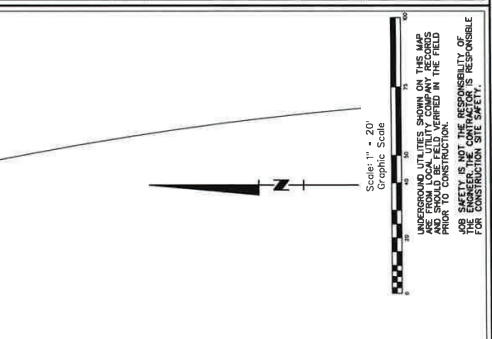
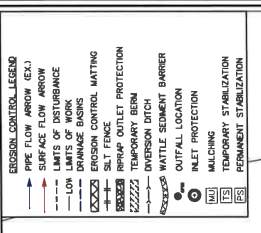
UNDERGROUND UTILITIES SHOWN ON THIS MAP ARE NOT TO BE CONSIDERED AS A GUARANTEE. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION SITE SAFETY.

NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ACCUMULATED SOIL, SAND, STORM DRAINS, PIPES, AND POND DURING AND AFTER CONSTRUCTION.
2. FINAL STABILIZATION OF DISTURBED AREAS MUST BE AT A MINIMUM, GRASSING OR OTHER EARTH RESTORATION ACTIVITIES HAVE BEEN COMPLETED AND INSPECTED.
3. PERMANENT STABILIZATION SHALL BE INSTALLED IMMEDIATELY UPON COMPLETION OF CONSTRUCTION.
4. MATERIAL STOCKPILES SHALL BE COVERED WITH A TARP OR TRAILER. STABILIZED SHOULD BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
5. ALL DISTURBED AREAS SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION. RESTORATION SHALL BE COMPLETED IMMEDIATELY UPON COMPLETION OF CONSTRUCTION.
6. ALL DISTURBED AREAS SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION. RESTORATION SHALL BE COMPLETED IMMEDIATELY UPON COMPLETION OF CONSTRUCTION.
7. ALL DISTURBED AREAS SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION. RESTORATION SHALL BE COMPLETED IMMEDIATELY UPON COMPLETION OF CONSTRUCTION.

NOTES:

1. THIS PROJECT IS LOCATED WITHIN AND ADHERES TO THE LIBERTY PARK 700 ACRES WATERSHED PROTECTION PLAN AND THE 1991 COVENANTS.
2. ALL WORK SHALL BE COMPLETED WITHIN THE LOWER CANNON/CONWAY WATER BASIN.
3. THIS PROJECT IS NOT LOCATED WITHIN WETLANDS.
4. THIS PROJECT IS NOT DIRECTLY ADJACENT TO A WETLAND.
5. THIS PROJECT IS COMPLETELY GRASSED WITH NO TREE CANOPY REMOVAL.
6. THE CONTRACTOR SHALL MAINTAIN THE PERIMETER OF THIS DEVELOPMENT AND SHALL MAINTAIN THE PERIMETER OF THIS DEVELOPMENT.
7. LIMIT OF DISTURBANCE IS 1.67 ACRES.
8. LIMIT OF WORK IS 2.18 ACRES.
9. ALL SLOPES SHALL BE MAINTAINED AT OR BETTER WITH SLOPE STABILIZATION AND PROTECTIVE MEASURES.



SLIT FENCES:

NOT TO SCALE. SEE PLAN FOR DETAILS. SLOPE SHALL BE MAINTAINED AT OR BETTER WITH SLOPE STABILIZATION AND PROTECTIVE MEASURES. ALL SLOPES SHALL BE MAINTAINED AT OR BETTER WITH SLOPE STABILIZATION AND PROTECTIVE MEASURES. ALL SLOPES SHALL BE MAINTAINED AT OR BETTER WITH SLOPE STABILIZATION AND PROTECTIVE MEASURES.

EROSION CONTROL SCHEDULE

1. CLEAR AND GRASS ALL AREAS TO BE DISTURBED.
2. INSTALL CONSTRUCTION ENTRANCE TO WORK AREA.
3. INSTALL SLOPE PROTECTION AND EROSION CONTROL MEASURES BEFORE CLEANING OPERATIONS TAKE PLACE.
4. BEGIN CLEANING OPERATIONS ONLY AS NECESSARY TO MAINTAIN ACCESS TO THE SITE.
5. ALL DISTURBED AREAS SHALL BE STABILIZED IMMEDIATELY WITH SEED AND STRAW.
6. ALL DISTURBED AREAS SHALL BE STABILIZED BY SEEDING, MULCHING, OR OTHER MEANS IMMEDIATELY UPON COMPLETION OF CONSTRUCTION.
7. ALL DISTURBED AREAS SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION. RESTORATION SHALL BE COMPLETED IMMEDIATELY UPON COMPLETION OF CONSTRUCTION.

NOTE: ALL DISTURBED AREAS SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION. RESTORATION SHALL BE COMPLETED IMMEDIATELY UPON COMPLETION OF CONSTRUCTION.

NOTE: THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ACCUMULATED SOIL, SAND, STORM DRAINS, PIPES, AND POND DURING AND AFTER CONSTRUCTION.

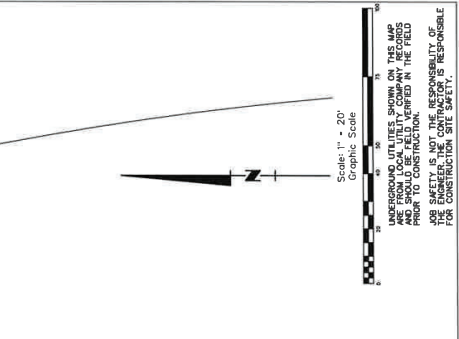
NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ACCUMULATED SEDIMENT FROM THE STORM DRAINS, PILES, AND POND DURING AND AFTER CONSTRUCTION.
2. FINAL STABILIZATION OF DISTURBED AREAS MUST BE A MINIMUM OF 14 DAYS AFTER THE DISTURBANCE HAS OCCURRED. ALL AREAS MUST BE INSTALLED IMMEDIATELY AFTER ANY CLEARING, GRADING, OR EXCAVATION. ALL AREAS MUST BE INSTALLED IMMEDIATELY AFTER ANY DISTURBANCE. ALL AREAS MUST BE INSTALLED IMMEDIATELY AFTER ANY DISTURBANCE. ALL AREAS MUST BE INSTALLED IMMEDIATELY AFTER ANY DISTURBANCE.
3. MATERIAL STOCKPILES SHOULD BE LOCATED ON A FLAT SURFACE AND SHOULD BE STABILIZED AS OUTLINED IN THE CONSTRUCTION BEST MANAGEMENT PRACTICES PLAN.
4. STOCKPILES SHOULD BE STABILIZED AS OUTLINED IN THE CONSTRUCTION BEST MANAGEMENT PRACTICES PLAN.
5. ALL DISTURBED GROUND LEFT INACTIVE FOR MORE THAN 13 DAYS SHOULD BE STABILIZED FOR A MINIMUM OF 14 DAYS AND NOT STABILIZED MAY BE CONSIDERED AS GRASSES FOR AN IMMEDIATE STOP WORK NOTICE.

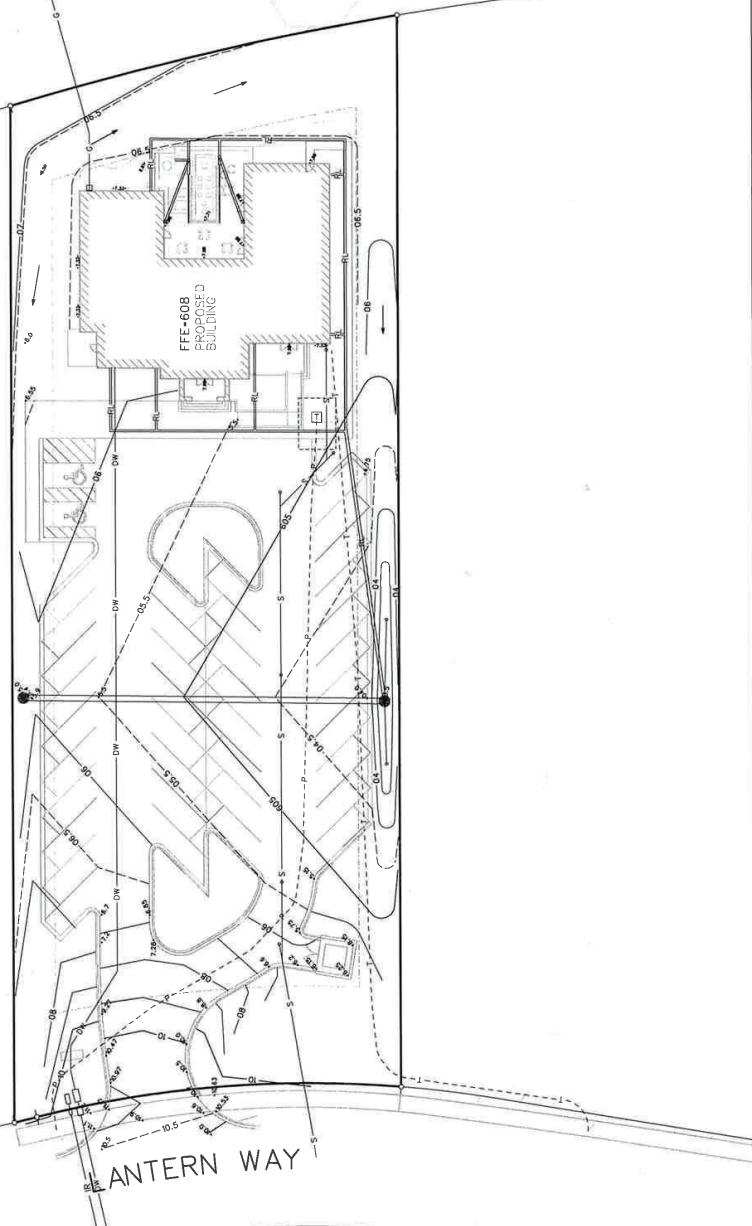
NOTES:

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3. THIS PROJECT IS NOT LOCATED WITHIN WETLANDS.
4. THIS PROJECT IS NOT DIRECTLY ADJACENT TO A CONSERVATION ESSENTIAL.
5. ALL DISTURBED AREAS MUST BE COMPLETELY GRASSED WITH NO TREE CANOPY REMOVAL.
6. LIMITS OF DISTURBANCE INCLUDES CLEARING LIMITS AND IMPACTS.
7. LIMITS OF DISTURBANCE ARE 7 ACRES.
8. ALL SILT FENCES SHALL HAVE A DRAINING WEIR WITH SLOSH PAD PER THE DETAIL ON C7-3.

- EROSION CONTROL LEGEND**
- PIPE FLOW ARROW (PFA)
 - SURFACE FLOW ARROW (SFA)
 - LIMITS OF DISTURBANCE
 - LOW LIMITS OF WORK
 - BRANCHED BASIN
 - CONTROL MATTING
 - SILT FENCE
 - RRP/RAP OUTLET PROTECTION
 - TEMPORARY BERM
 - INVERSION DITCH
 - TATTLE SODIUM BARBER
 - OUT-FALL LOCATION
 - INLET PROTECTION
 - MALDING
 - TEMPORARY STABILIZATION
 - PERMANENT STABILIZATION



SOUTH LIBERTY ROAD



EROSION CONTROL SEQUENCE

1. INSTALL/MINIMIZE SILT FENCES AS SHOWN ON THESE PLANS.
2. INSTALL SILT FENCES IMMEDIATELY AFTER GRADING AND REACH FINISHED GRADE.
3. STABILIZE ALL AREAS LEFT INACTIVE FOR 13 DAYS OR MORE WITH PERMANENT STABILIZATION TO REDUCE EROSION.
4. ONCE FINAL GRADE HAS BEEN REACHED, STABILIZE ALL REMAINING DISTURBED AREAS WITH PERMANENT STABILIZATION MEASURES SHOWN.

NOTE: ALL DISTURBED GROUND SHALL BE STABILIZED BY SEEDING, MULCHING, OR OTHER MEANS WITHIN 14 DAYS OF THE REACHING OF FINISHED GRADE. ALL AREAS NOT STABILIZED WITHIN 14 DAYS SHALL BE COVERED WITH SLOSH PAD PER THE DETAIL ON C7-3 OF THIS PLAN.

SILT FENCES:

INSPECT SILT FENCES REGULARLY AND FREQUENTLY AS WELL AS AFTER EACH RAINFALL EVENT. EACH STORM EVENT COLLAPSED, TORN, DECOMPOSED, CLOGGED, AND OTHERWISE DAMAGED SILT FENCES SHOULD BE IMMEDIATELY REPAIRED OR REPLACED. ALL AREAS BEHIND SILT FENCES SHOULD BE PROTECTED FROM THE POOL AREA WHEN ACCUMULATIONS REACH THE HEIGHT OF THE SILT FENCE. ALL MATERIALS AND UNDESIRABLE SEDIMENT AND DISPOSE OF PROPERLY. FILL THE POOL AREA WITH MATERIALS AND UNDESIRABLE SEDIMENT AND DISPOSE OF PROPERLY. FILL THE POOL AREA WITH MATERIALS AND UNDESIRABLE SEDIMENT AND DISPOSE OF PROPERLY. FILL THE POOL AREA WITH MATERIALS AND UNDESIRABLE SEDIMENT AND DISPOSE OF PROPERLY. FILL THE POOL AREA WITH MATERIALS AND UNDESIRABLE SEDIMENT AND DISPOSE OF PROPERLY.

NOTES:

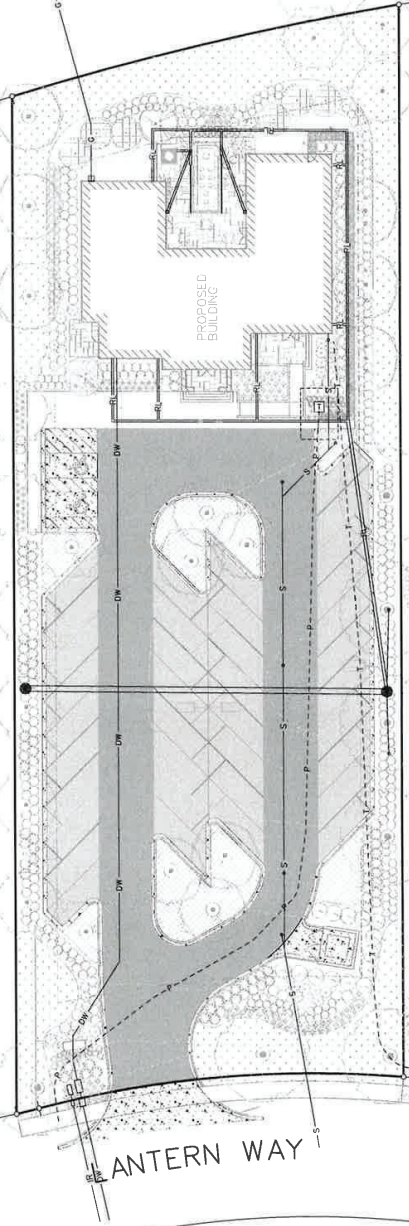
1. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ACCUMULATED EXCESSIVE SEDIMENT, STORM DRAINAGE PIPES, AND POND DURING AND AFTER CONSTRUCTION.
2. FINAL STABILIZATION OF DISTURBED AREAS MUST, AT A MINIMUM, BE MAINTAINED OR OTHER EARTH RESTORATION ACTIVITIES HAVE TO BE COMPLETED WITHIN 90 DAYS OF THE END OF CONSTRUCTION. FINAL PERMANENT STABILIZATION SHALL BE COMPLETED WITHIN 90 DAYS OF THE END OF CONSTRUCTION.
3. MATERIAL STOCKPILES SHOULD BE PAVED OR HAVE STABLE STOCKPILES SHOULD BE STABILIZED AS OCCURS IN THE DISTURBED AREAS.
4. LAYDOWN AREAS FOR CONSTRUCTION MATERIALS SHOULD BE LOCATED ON A FLAT SURFACE AWAY FROM FACILITY INLETS BEING CONSTRUCTED. CONSTRUCTION MATERIALS SHOULD BE PREPARED TO PROVIDE STABLE EQUIPMENT ACCESS, ADEQUATE DRAINAGE, AND PROTECTIVE MEASURES TO PREVENT POLLUTION OF THE LAYDOWN AREA.
5. ALL DISTURBED GROUND LEFT INACTIVE FOR MORE THAN 10 DAYS SHOULD BE REVEGETATED WITHIN 90 DAYS OF THE END OF CONSTRUCTION. DISTURBED GROUND LEFT INACTIVE FOR MORE THAN 15 DAYS SHOULD BE REVEGETATED WITHIN 120 DAYS OF THE END OF CONSTRUCTION. DISTURBED GROUND LEFT INACTIVE FOR MORE THAN 30 DAYS SHOULD BE REVEGETATED WITHIN 180 DAYS OF THE END OF CONSTRUCTION. IMMEDIATE SWEEP STOPS MUST BE NOTICED.

EROSION CONTROL SEQUENCE:

1. ALL REMAINING DISTURBED AREAS WITH PERMANENT STABILIZATION.
2. REMOVE SILT FENCES AND INLET PROTECTION AS SHOWN.
3. REMOVE CONSTRUCTION EXIT PADS AND REPLACE WITH PERMANENT STABILIZATION.

- LEGEND**
- HEAVY DUTY ASPHALT
 - LIGHT DUTY ASPHALT
 - CONCRETE PAVING
 - CONCRETE SIDEWALK
- EROSION CONTROL LEGEND**
- CONSTRUCTION LIMITS
 - SURFACE FLOW ARROW
 - LOW LIMITS OF DISTURBANCE
 - DRAINAGE BASINS
 - OUTFALL LOCATION
 - MULCHING
 - PERMANENT STABILIZATION

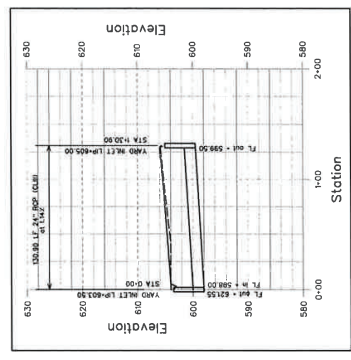
SOUTH LIBERTY ROAD



ANTERN WAY

UNDERGROUND UTILITIES SHOWN ON THIS MAP ARE SHOWN FOR INFORMATION ONLY AND SHOULD NOT BE RELIED UPON IN THE FIELD PRIOR TO CONSTRUCTION. THE USER SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF ALL INFORMATION FOR CONSTRUCTION SITE SAFETY.

UNDERGROUND UTILITIES SHOWN ON THIS MAP ARE BASED ON RECORD DRAWINGS AND FIELD SURVEY. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FOR CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION SITE SAFETY.



PROFILE STORM LINE D-1
 SCALE 1"=50' HORIZ.
 SCALE 1"=10' VERT.

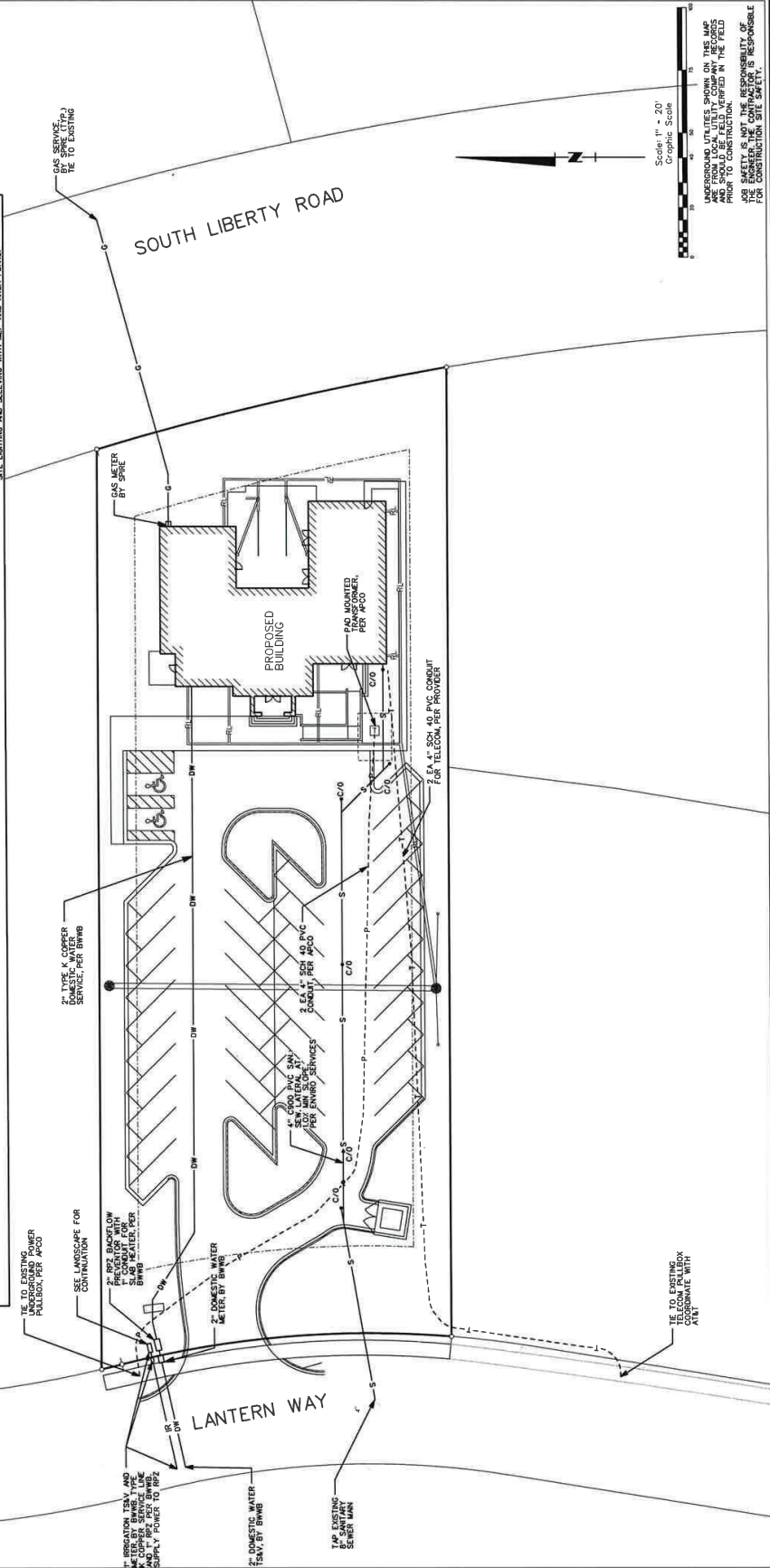
- UTILITY CONTACTS**
- BIRMINGHAM WATER WORKS BOARD
 PHONE: 205-244-1000
 EMAIL: DOUGLASS.STOOCHAMBERG@BWWB.ORG
 - ALABAMA POWER COMPANY
 PHONE: 205-988-7400
 EMAIL: INDUSTRY@ALPOWER.COM
 - AT&T
 PHONE: 205-977-1000
 EMAIL: 205-977-1000
 - SOUTHERN WATER COMPANY
 PHONE: 205-944-1000
 EMAIL: JULE@SOUTHWATER.COM
 - NATURAL GAS
 PHONE: 205-944-1000
 EMAIL: 205-944-1000
- NOTE:** THE BEST MANAGEMENT PRACTICES (BMP) IMPLEMENTED ON THIS PROJECT SHALL MEET OR EXCEED THE TECHNICAL STANDARDS AND EROSION CONTROL, SEDIMENT CONTROL, AND STORM WATER MANAGEMENT ON CONSTRUCTION SCHEDULE, LOCAL AGENCIES.

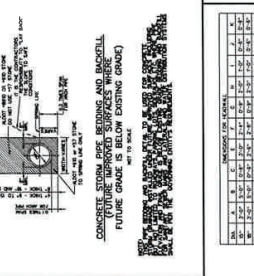
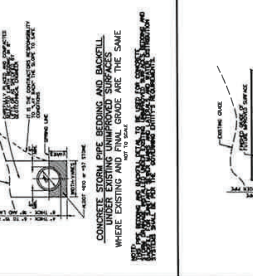
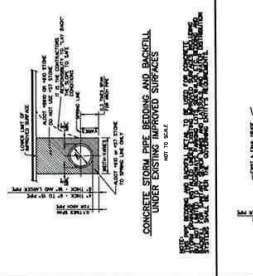
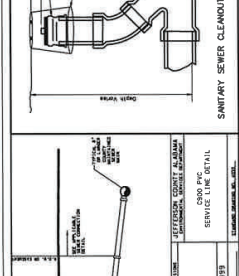
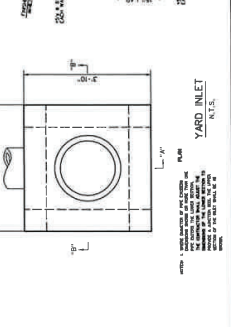
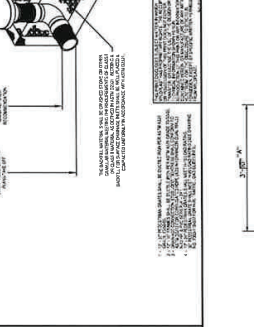
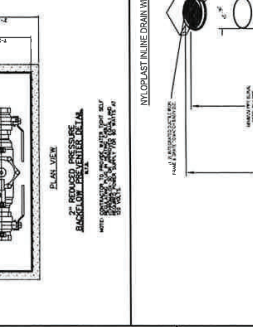
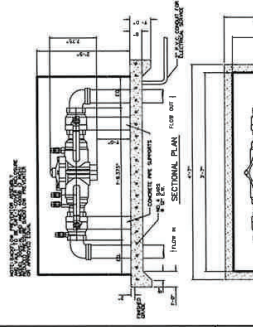
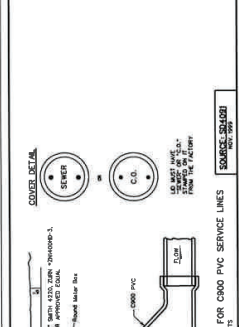
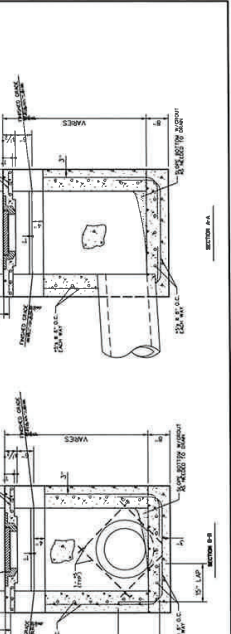
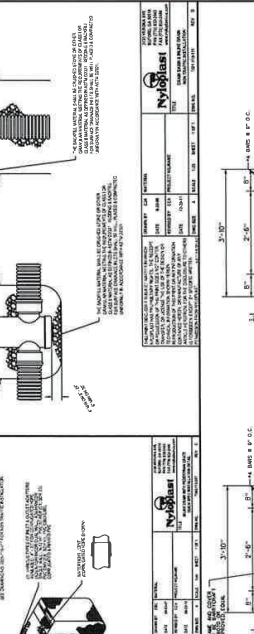
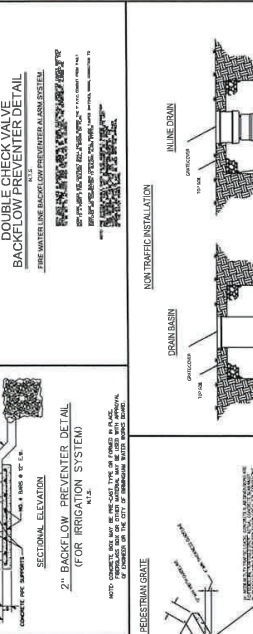
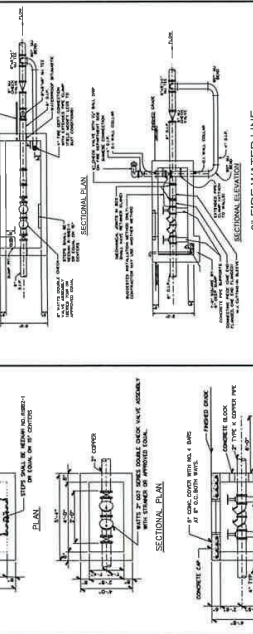
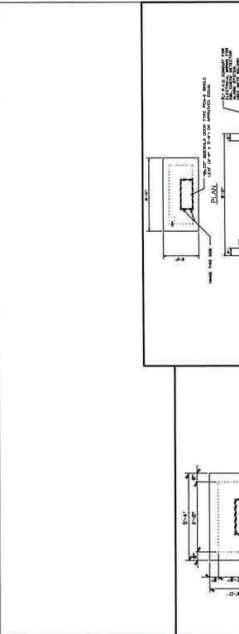
- GENERAL NOTES:**
- SEE PLUMBING/LANDSCAPE PLANS AND COORDINATE WITH LANDSCAPE ARCH FOR ANY REQUIRED SLEEVE LOCATIONS.
 - SEE LIGHTING NOT SHOWN CONTRACTOR TO COORDINATE SITE LIGHTING AND SLEEVING WITH MEP AND ARCH PLANS.

- WATER SYSTEM NOTES:**
- ALL WATER MAINS AND RELATED APPURTENANCES SHALL BE INSTALLED PER THE BIRMINGHAM WATER WORKS BOARD.
 - THURST BLOCKS SHALL BE PROVIDED AT ALL BENDS, TEES, PLUGS, AND FIRE HYDRANTS IN THE WATER MAIN SYSTEM.
 - ALL WATER MAINS SHALL HAVE 36" OF COVER (MINIMUM).
 - COORDINATE WITH THE BIRMINGHAM WATER WORKS BOARD PRIOR TO AND DURING CONSTRUCTION.
 - FIRE DEPARTMENT DEMAND XXX GPM @ 100 PSI DOMESTIC DEMAND XXX GPM @ 80 PSI
 - A FROST PROTECTOR VALVE WILL BE INSTALLED ON THE FIRE WATER LINE FEEDING THE BUILDING. THE PV SHALL HAVE A TAMPER SWITCH WHICH WILL BE WIRED INTO THE BUILDING FIRE ALARM SYSTEM AND MONITORED IN THE OPEN POSITION. THE TAMPER SWITCH WILL BE NEAR THE VALVE AND WILL BE NEAR TO ISOLATE THE LINE FOR ANY REPAIRS OR SERVICE.
 - ALL PRIVATE FIRE HYDRANTS SHALL BE RED IN COLOR AND SHALL MEET THE VESTAVIA HILLS FIRE AND RESCUE SERVICE DEPARTMENT FIRE HYDRANT SPECIFICATIONS.
 - ALL SERVICES BIRMINGHAM WATER WORKS BOARD WILL INSTALL THE TAPPING POINTS AND SHALL BE RESPONSIBLE FOR THE TAPPING POINTS AND FLOW METER VAULTS. COMPLETE ALL LOGS AND INSTALLATION UP TO AND INCLUDING THE MAGNETIC FLOW METER VAULTS.
 - DOMESTIC SERVICE AND/OR FIRE SERVICE BACKFLOW PREVENTER ASSEMBLY MUST BE INSTALLED OUTSIDE THE FACILITY. THE BACKFLOW DEPARTMENT WILL REVIEW AND EVALUATE SPECIAL CONDITIONS ON A CASE BY CASE BASIS.

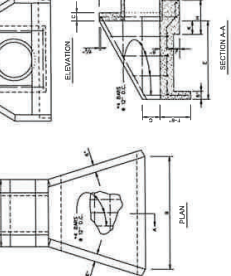
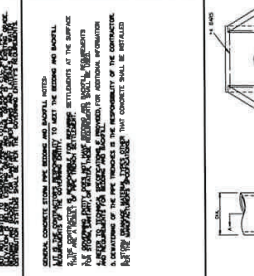
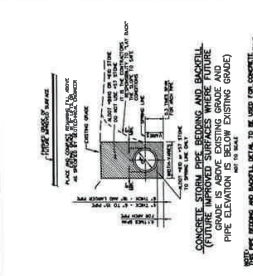
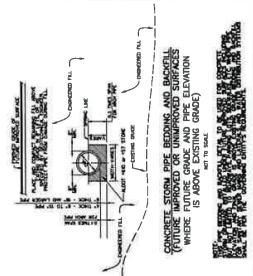
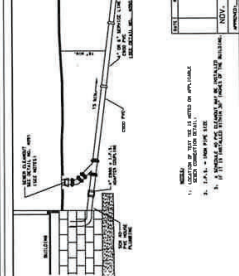
- BACKFLOW PREVENTER ASSEMBLY:**
- THE CUSTOMER WILL BE RESPONSIBLE FOR KILLING ALL EXISTING AND TEMPORARY SERVICES CONNECTIONS BY THE WATER BOARD. ANY EXISTING AND TEMPORARY SERVICES MUST BE KILLED AT THE MAIN AND INSPECTED BY BWWB PERSONNEL BEFORE THE NEW SERVICES WILL BE ACTIVATED. ANY EXISTING SERVICES MUST BE KILLED AND BROUGHT UP TO CURRENT WATER BOARD STANDARDS NO EXCEPTIONS.
 - THE BACKFLOW PREVENTER ASSEMBLY SHALL BE INSTALLED IN A LOCATION THAT IS COMPLETELY ABOVE THE FLOOD PLANE OF THE FACILITY. THE PREVENTER ASSEMBLY SHALL BE INSTALLED IN A LOCATION THAT IS COMPLETELY ABOVE THE FLOOD PLANE OF THE FACILITY. THE PREVENTER ASSEMBLY SHALL BE INSTALLED IN A LOCATION THAT IS COMPLETELY ABOVE THE FLOOD PLANE OF THE FACILITY.
 - THE FIRE SERVICE AND/OR DOMESTIC SERVICE MAGNETIC FLOW METER VAULTS MUST HAVE LOCATION AND ELEVATION STAKES MARKED ON SITE BEFORE BWWB WILL BE INSTALLED. THE STAKES SHALL BE MARKED WITH THE REMOVAL AND REINSTALLATION OF A BACKFLOW PREVENTER ASSEMBLY WILL BE INCURRED BY THE CUSTOMER AND NOT THE WATER BOARD.
 - THE FIRE SERVICE AND/OR DOMESTIC SERVICE MAGNETIC FLOW METER VAULTS MUST HAVE LOCATION AND ELEVATION STAKES MARKED ON SITE BEFORE BWWB WILL BE INSTALLED. THE STAKES SHALL BE MARKED WITH THE REMOVAL AND REINSTALLATION OF A BACKFLOW PREVENTER ASSEMBLY WILL BE INCURRED BY THE CUSTOMER AND NOT THE WATER BOARD.
 - BWWB WILL NOT MAKE ANY FIELD CHANGES ONCE THE DRAWING HAS BEEN APPROVED. ANY CHANGES MUST BE MADE TO THE DRAWING PRIOR TO CONSTRUCTION. DRAWING TO THE APPROPRIATE PROJECT COORDINATOR IN A SYSTEM DEVELOPMENT VIA EMAIL AND RESCHEDULE YOUR TAP. NO EXCEPTIONS.
 - COORDINATE ALL WORK WITH PLUMBING ENGINEERING DRAWINGS.

- SAINTARY SEWER SYSTEM NOTES:**
- ALL SAINTARY SEWER SHALL BE CONSTRUCTED PER THE REQUIREMENTS OF ENVIRO SERVICES, L.L.C.
 - COORDINATE ALL WORK WITH PLUMBING ENGINEERING DRAWINGS.
- PRIMARY ELECTRICAL DISTRIBUTION SYSTEM NOTES:**
- CONTRACTOR TO COORDINATE WITH ALABAMA POWER FOR ELECTRICAL SERVICE.
 - COORDINATE ALL WORK WITH ELECTRICAL ENGINEERING DRAWINGS.
- NATURAL GAS SYSTEM NOTES:**
- SEE PLUMBING/LANDSCAPE PLANS AND COORDINATE WITH LANDSCAPE ARCH FOR ANY REQUIRED SLEEVE LOCATIONS.
 - SEE LIGHTING NOT SHOWN CONTRACTOR TO COORDINATE SITE LIGHTING AND SLEEVING WITH MEP AND ARCH PLANS.





NO.	DESCRIPTION	QTY	UNIT
1	CONCRETE STORM PIPE	100	LINEAL FEET
2	CONCRETE STORM PIPE BEDDING	100	LINEAL FEET
3	CONCRETE STORM PIPE BACKFILL	100	LINEAL FEET
4	CONCRETE STORM PIPE MANHOLE	1	PIECE
5	CONCRETE STORM PIPE CLEANOUT	1	PIECE
6	CONCRETE STORM PIPE INLET	1	PIECE
7	CONCRETE STORM PIPE OUTLET	1	PIECE
8	CONCRETE STORM PIPE FITTING	1	PIECE
9	CONCRETE STORM PIPE ELBOW	1	PIECE
10	CONCRETE STORM PIPE TEE	1	PIECE
11	CONCRETE STORM PIPE CROSS	1	PIECE
12	CONCRETE STORM PIPE END FITTING	1	PIECE
13	CONCRETE STORM PIPE FLANGE	1	PIECE
14	CONCRETE STORM PIPE GASKET	1	PIECE
15	CONCRETE STORM PIPE NUT	1	PIECE
16	CONCRETE STORM PIPE WASHER	1	PIECE
17	CONCRETE STORM PIPE BOLT	1	PIECE
18	CONCRETE STORM PIPE SCREW	1	PIECE
19	CONCRETE STORM PIPE RIVET	1	PIECE
20	CONCRETE STORM PIPE WELD	1	PIECE
21	CONCRETE STORM PIPE BRACKET	1	PIECE
22	CONCRETE STORM PIPE HANGER	1	PIECE
23	CONCRETE STORM PIPE SUPPORT	1	PIECE
24	CONCRETE STORM PIPE RESTRAINT	1	PIECE
25	CONCRETE STORM PIPE ANCHOR	1	PIECE
26	CONCRETE STORM PIPE BUSHING	1	PIECE
27	CONCRETE STORM PIPE ADAPTER	1	PIECE
28	CONCRETE STORM PIPE REDUCER	1	PIECE
29	CONCRETE STORM PIPE ENLARGER	1	PIECE
30	CONCRETE STORM PIPE JOINT	1	PIECE
31	CONCRETE STORM PIPE GROMMET	1	PIECE
32	CONCRETE STORM PIPE O-RING	1	PIECE
33	CONCRETE STORM PIPE GASKET	1	PIECE
34	CONCRETE STORM PIPE NUT	1	PIECE
35	CONCRETE STORM PIPE WASHER	1	PIECE
36	CONCRETE STORM PIPE BOLT	1	PIECE
37	CONCRETE STORM PIPE SCREW	1	PIECE
38	CONCRETE STORM PIPE RIVET	1	PIECE
39	CONCRETE STORM PIPE WELD	1	PIECE
40	CONCRETE STORM PIPE BRACKET	1	PIECE
41	CONCRETE STORM PIPE HANGER	1	PIECE
42	CONCRETE STORM PIPE SUPPORT	1	PIECE
43	CONCRETE STORM PIPE RESTRAINT	1	PIECE
44	CONCRETE STORM PIPE ANCHOR	1	PIECE
45	CONCRETE STORM PIPE BUSHING	1	PIECE
46	CONCRETE STORM PIPE ADAPTER	1	PIECE
47	CONCRETE STORM PIPE REDUCER	1	PIECE
48	CONCRETE STORM PIPE ENLARGER	1	PIECE
49	CONCRETE STORM PIPE JOINT	1	PIECE
50	CONCRETE STORM PIPE GROMMET	1	PIECE
51	CONCRETE STORM PIPE O-RING	1	PIECE
52	CONCRETE STORM PIPE GASKET	1	PIECE
53	CONCRETE STORM PIPE NUT	1	PIECE
54	CONCRETE STORM PIPE WASHER	1	PIECE
55	CONCRETE STORM PIPE BOLT	1	PIECE
56	CONCRETE STORM PIPE SCREW	1	PIECE
57	CONCRETE STORM PIPE RIVET	1	PIECE
58	CONCRETE STORM PIPE WELD	1	PIECE
59	CONCRETE STORM PIPE BRACKET	1	PIECE
60	CONCRETE STORM PIPE HANGER	1	PIECE
61	CONCRETE STORM PIPE SUPPORT	1	PIECE
62	CONCRETE STORM PIPE RESTRAINT	1	PIECE
63	CONCRETE STORM PIPE ANCHOR	1	PIECE
64	CONCRETE STORM PIPE BUSHING	1	PIECE
65	CONCRETE STORM PIPE ADAPTER	1	PIECE
66	CONCRETE STORM PIPE REDUCER	1	PIECE
67	CONCRETE STORM PIPE ENLARGER	1	PIECE
68	CONCRETE STORM PIPE JOINT	1	PIECE
69	CONCRETE STORM PIPE GROMMET	1	PIECE
70	CONCRETE STORM PIPE O-RING	1	PIECE
71	CONCRETE STORM PIPE GASKET	1	PIECE
72	CONCRETE STORM PIPE NUT	1	PIECE
73	CONCRETE STORM PIPE WASHER	1	PIECE
74	CONCRETE STORM PIPE BOLT	1	PIECE
75	CONCRETE STORM PIPE SCREW	1	PIECE
76	CONCRETE STORM PIPE RIVET	1	PIECE
77	CONCRETE STORM PIPE WELD	1	PIECE
78	CONCRETE STORM PIPE BRACKET	1	PIECE
79	CONCRETE STORM PIPE HANGER	1	PIECE
80	CONCRETE STORM PIPE SUPPORT	1	PIECE
81	CONCRETE STORM PIPE RESTRAINT	1	PIECE
82	CONCRETE STORM PIPE ANCHOR	1	PIECE
83	CONCRETE STORM PIPE BUSHING	1	PIECE
84	CONCRETE STORM PIPE ADAPTER	1	PIECE
85	CONCRETE STORM PIPE REDUCER	1	PIECE
86	CONCRETE STORM PIPE ENLARGER	1	PIECE
87	CONCRETE STORM PIPE JOINT	1	PIECE
88	CONCRETE STORM PIPE GROMMET	1	PIECE
89	CONCRETE STORM PIPE O-RING	1	PIECE
90	CONCRETE STORM PIPE GASKET	1	PIECE
91	CONCRETE STORM PIPE NUT	1	PIECE
92	CONCRETE STORM PIPE WASHER	1	PIECE
93	CONCRETE STORM PIPE BOLT	1	PIECE
94	CONCRETE STORM PIPE SCREW	1	PIECE
95	CONCRETE STORM PIPE RIVET	1	PIECE
96	CONCRETE STORM PIPE WELD	1	PIECE
97	CONCRETE STORM PIPE BRACKET	1	PIECE
98	CONCRETE STORM PIPE HANGER	1	PIECE
99	CONCRETE STORM PIPE SUPPORT	1	PIECE
100	CONCRETE STORM PIPE RESTRAINT	1	PIECE



Design Summary Sheet Units: **U.S.**

Project Information		Rainfall Parameters	
Project:	24-523 Goddard at Liberty Park	Type III	NOAA ATLAS 14
State:	Alabama	2-Yr, 24-hr	
County:	Jefferson County	4.14 in.	
Designer:	Evan Houston		

Phasing Schedule		Description	Start	End	Days
I		Predeveloped (existing) contours, cleared and grubbed.	4/1/25	5/1/25	30
II		Final contours/building pads, no parking lots, no vegetation.	5/1/25	7/1/25	61
III		Final grading, permanent features installed, no vegetation.	7/1/25	9/1/25	62

Outfall ID	Initial Phase (Phase I)				Intermediate Phase (Phase II)				Final Phase (Phase III)				
	Drainage Area ac	Runoff Vol. ft ³	Q _p ft ³ /s	Req. Sediment Storage yds ³	Storage Provided yds ³	Drainage Area ac	Q _p ft ³ /s	Req. Sediment Storage yds ³	Storage Provided yds ³	Drainage Area ac	Q _p ft ³ /s	Vol. ft ³	Soil Loss ft ³ /year
OF01	0.56	5,435	1.5	38	43	0.79	6,720	1.9	53	76	0.79	4,064	1.1
OF02	0.73	7,084	2.0	49	70	0.05	485	0.1	3	6	0.76	7,957	2.2
OF03	0.35	3,397	1.0	23	37	0.03	291	0.1	2	7	0.79	4,064	1.1
OF04	0.09	873	0.2	6	12	0.61	8,398	1.9	41	52	0.61	7,895	1.9
OF05	0.09	873	0.2	6	15	0.37	3,958	1.1	25	37	0.37	1,912	0.5
OF06	0.09	873	0.2	6	9	0.07	456	0.1	5	12	0.07	225	0.1
OF07						0.08	483	0.1	5	15	0.08	257	0.1
OF08						0.06	244	0.1	4	9	0.06	193	0.0

Hydrologic Analysis Summary

Volume = $\left(\frac{A_1 + A_2 + \dots + A_n}{n} \right) \times ((n-1) \times d)$

A1, A2, A3 = area
n = number of area
d = contour interval

Volume = $\frac{1}{2} (A+B) \times H \times L$

Impoundment Volume Formulas

Linear
 $V = ht(W + \frac{z}{2})$

"Y" Hook
 $V = \frac{h^3 z_1 z_2}{2}$

"C" Configuration
 $V = \frac{ahR}{3}$

Half "C" Configuration
 $V = \frac{ahR}{6}$

DETAILS

DRAWN BY: R.J.S.
 CHECKED BY: A.F.P.
 FILE NAME: 24092402

C8-2



LIBERTY PARK DAY SPA
 VESTAVIA HILLS, ALABAMA

DRAWINGS SET
 CHECK SET 05/30/25
 REVISIONS:

INITIAL PHASE										
Trap ID	Outfall ID	Bottom Width (a)	Top Width (b)	Height (h)	Length (L)	Volume (cu. yds)	Required Volume (cu. yds)	Provided Volume (cu. yds)	Trap 1	Trap 2
OF01	OF01	2	30	3	35	1,155	38	43		
OF02	OF02	12	30	3	30	1,800	38	70		

INTERMEDIATE PHASE										
Trap ID	Outfall ID	Bottom Width (a)	Top Width (b)	Height (h)	Length (L)	Volume (cu. yds)	Required Volume (cu. yds)	Provided Volume (cu. yds)	Trap 1	Trap 2
OF01	OF01	2	30	3	30	990	26	37		
OF02	OF02	2	30	3	30	990	26	37		

24523 - Goddard at Liberty Park Intermediate												
Outfall ID	Receiving Water	Distance to Receiving Water (ft)	Drainage Area (Ac)	Required Storage Volume (Cu)	Provided Storage Volume (Cu)	Outfall ID	Receiving Water	Distance to Receiving Water (ft)	Drainage Area (Ac)	Required Storage Volume (Cu)	Provided Storage Volume (Cu)	
OF01	Fleming Branch	900	0.56	38	43	OF02	Fleming Branch	970	0.79	53	76	
OF02	Fleming Branch	820	0.73	49	33	OF03	Fleming Branch	930	0.05	3	6	
OF03	Fleming Branch	780	0.35	23	33	OF04	Fleming Branch	880	0.03	2	7	
OF04	Fleming Branch	900	0.09	6	12	OF05	Fleming Branch	820	0.61	41	52	
OF05	Fleming Branch	1000	0.09	6	15	OF06	Fleming Branch	780	0.37	25	33	
OF06	Fleming Branch	1100	0.09	6	9	OF07	Fleming Branch	900	0.07	5	12	
						OF08	Fleming Branch	1000	0.06	4	15	
										1100	0.06	4

24523 - Goddard at Liberty Park Initial												
Outfall ID	Receiving Water	Distance to Receiving Water (ft)	Drainage Area (Ac)	Required Storage Volume (Cu)	Provided Storage Volume (Cu)	Outfall ID	Receiving Water	Distance to Receiving Water (ft)	Drainage Area (Ac)	Required Storage Volume (Cu)	Provided Storage Volume (Cu)	
OF01	Fleming Branch	900	0.56	38	43	OF02	Fleming Branch	970	0.79	53	76	
OF02	Fleming Branch	820	0.73	49	33	OF03	Fleming Branch	930	0.05	3	6	
OF03	Fleming Branch	780	0.35	23	33	OF04	Fleming Branch	880	0.03	2	7	
OF04	Fleming Branch	900	0.09	6	12	OF05	Fleming Branch	820	0.61	41	52	
OF05	Fleming Branch	1000	0.09	6	15	OF06	Fleming Branch	780	0.37	25	33	
OF06	Fleming Branch	1100	0.09	6	9	OF07	Fleming Branch	900	0.07	5	12	
						OF08	Fleming Branch	1000	0.06	4	15	
										1100	0.06	4

PS-1 COMMONLY USED PLANTS FOR PERMANENT COVER ¹									
Species	Seeding Rate (lbs per Acre)	North ³	Central ³	South ³					
Bahiagrass, Pensacola	40 lbs	Apr 1-July 1	Mar 1-July 1	Feb 1-Nov 1					
Bermudagrass, Common	30 lbs	Mar 1-July 1	Mar 1-July 1	Mar 1-July 15					
Bahiagrass, Pensacola	30 lbs	Mar 1-July 1	Mar 1-July 1	Mar 1-July 15					
Bermudagrass, Common	5 lbs	Anytime	Anytime	Anytime					
Bermudagrass, Hybrid (Lawn Types)	Solid Sod	Anytime	Anytime	Anytime					
Bermudagrass, Hybrid (Lawn Types)	Springs 1-ft ²	Mar 1-Aug 1	Mar 1-Aug 1	Feb 15-Sep 1					
Fescue, Tall	40-50 lbs	Sep 1-Nov 1	Sep 1-Nov 1	Sep 1-Nov 1					
Stachys	40-60 lbs	Mar 15-Jul 15	Mar 15-Jul 15	Feb 15-Jul 15					
Stachys	40 lbs	Mar 15-Jul 15	Mar 15-Jul 15	Feb 15-Jul 15					
Stachys & Common Bermudagrass	10 lbs	Apr 1-Jun 15	Mar 15-Jul 15	Feb 15-Jul 15					
Switchgrass, Alamo	4 lbs	Apr 1-Jun 15	Mar 15-Jul 15	Mar 15-Jun 15					

TS-1 COMMONLY USED PLANTS FOR TEMPORARY COVER ¹									
Species	Seeding Rate (lbs per Acre)	North	Central	South					
Millet, Browntop or German	40 lbs	Apr 1-Aug 1	Apr 1-Aug 1	Apr 1-Aug 15					
Rye	3 bu	Sep 1-Nov 15	Sep 15-Nov 15	Sep 15-Oct 15					
Ryegrass	30 bu	Aug 1-Sep 15	Sep 1-Oct 15	Sep 1-Oct 15					
Sorghum-Sudan Hybrids	40 lbs	May 1-Aug 1	Apr 15-Aug 1	Apr 1-Aug 15					
Sudagrass	40 lbs	May 1-Aug 1	Apr 15-Aug 1	Apr 1-Aug 15					
Wheat	3 bu	Sep 1-Nov 1	Sep 15-Nov 15	Sep 15-Nov 15					
Common Bermudagrass	10 lbs	Apr 1-July 1	Mar 15-July 15	Mar 1-July 15					
Crimson Clover	10 lbs	Sept 1-Nov 1	Sept 1-Nov 1	Sept 1-Nov 1					

¹DO NOT USE Seeding Rates as part of a mixture unless shown as a mixture in this table.
²PLS means Pure Live Seed and is used to adjust seeding rates. For example, to plant 10 lbs PLS of a species with germination of 80% and purity of 90%, PLS = 10 x 0.8 x 0.9 = 7.2. 100% PLS = 10/0.9 = 11.1 lbs of the species.
³Planting zones are demarcated in figure 2 in section 8.1 of the Alabama Handbook.

Outfall 01

Series Number	Protection Measure	Percent Reduction	Units Entering	Units Leaving	Reduction for 01:
First	Silt Fence	22.05	58	42	16.25
Second	Silt Fence	19.95	51.5	37	14.16
Third	Turbidity Curtain	5.7855	14.645	8.66	6.06
Total Sediment Reduction for 01: 37.47					

Outfall 02

Series Number	Protection Measure	Percent Reduction	Units Entering	Units Leaving	Reduction for 02:
First	Silt Fence	22.05	70	50	20
Second	Turbidity Curtain	13.05	30	16.95	13.05
Total Sediment Reduction for 02: 33.10					

Outfall 03

Series Number	Protection Measure	Percent Reduction	Units Entering	Units Leaving	Reduction for 03:
First	Silt Fence	22.05	70	50	20
Second	Turbidity Curtain	13.05	30	16.95	13.05
Total Sediment Reduction for 03: 33.10					

Outfall 04

Series Number	Protection Measure	Percent Reduction	Units Entering	Units Leaving	Reduction for 04:
First	Silt Fence	22.05	40	29.4	10.6
Second	Turbidity Curtain	5.7855	19.95	14.16	5.79
Total Sediment Reduction for 04: 16.39					

Outfall 05

Series Number	Protection Measure	Percent Reduction	Units Entering	Units Leaving	Reduction for 05:
First	Inlet Protection	18.27	42	23.73	18.27
Second	Inlet Protection	10.37	23.73	13.41	10.37
Third	Inlet Protection	13.41	13.41	7.97	5.44
Total Sediment Reduction for 05: 34.08					

Outfall 06

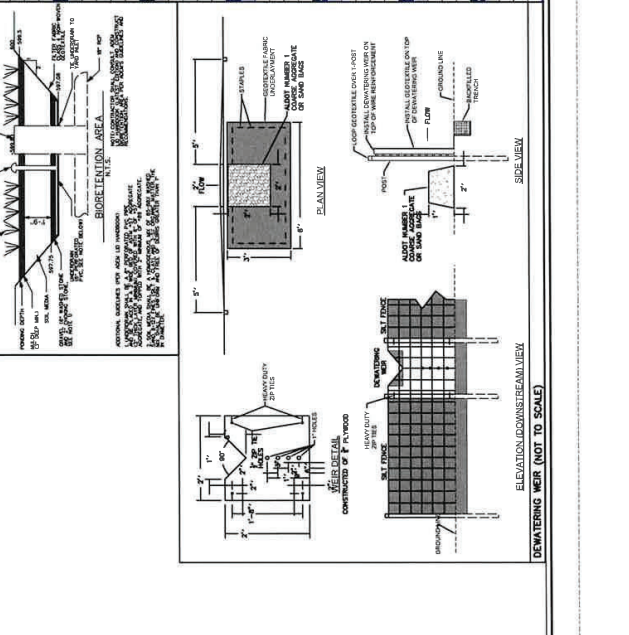
Series Number	Protection Measure	Percent Reduction	Units Entering	Units Leaving	Reduction for 06:
First	Silt Fence	22.05	70	50	20
Second	Turbidity Curtain	13.05	30	16.95	13.05
Total Sediment Reduction for 06: 33.10					

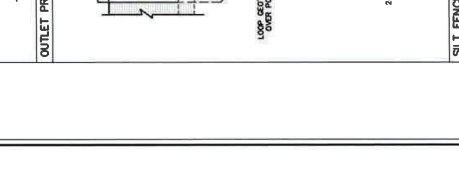
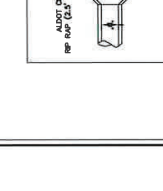
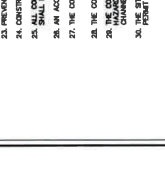
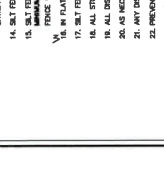
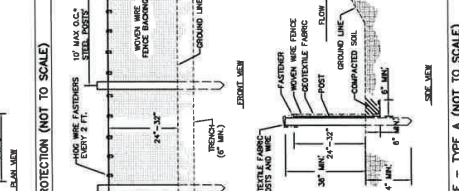
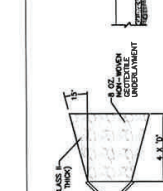
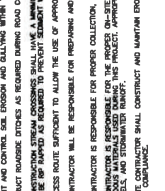
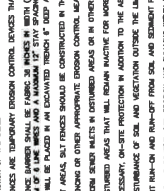
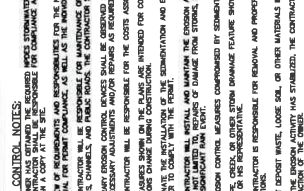
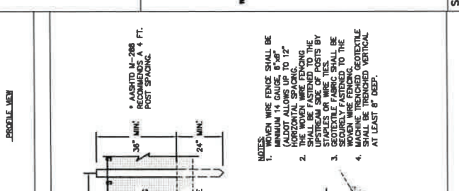
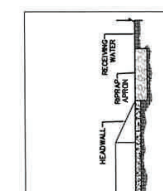
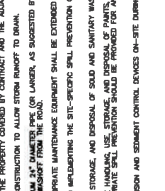
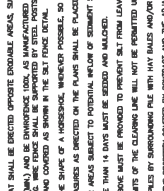
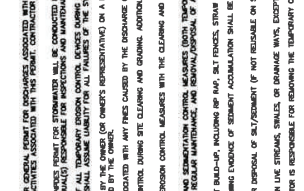
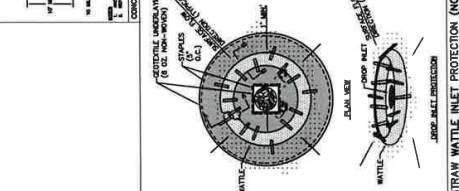
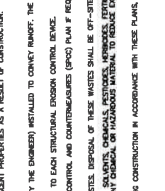
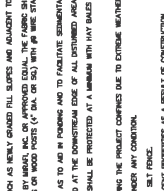
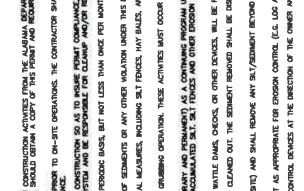
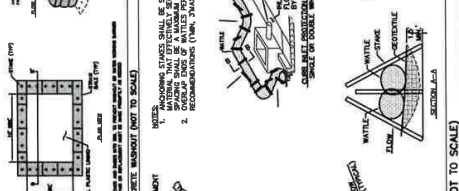
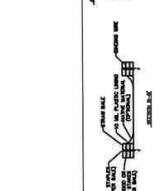
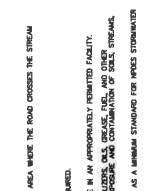
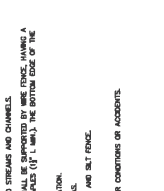
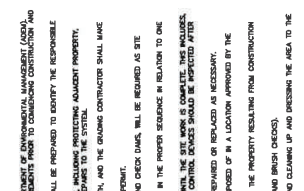
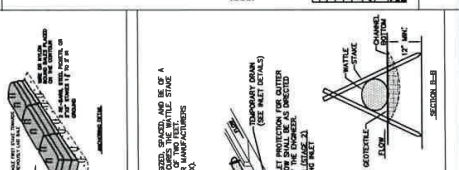
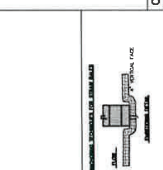
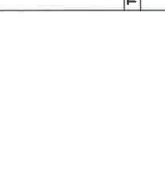
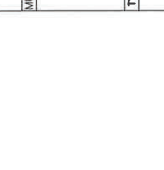
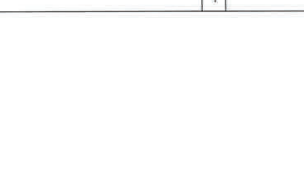
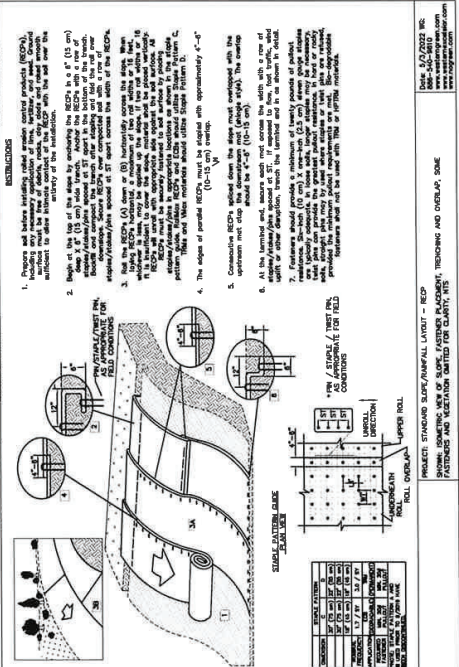
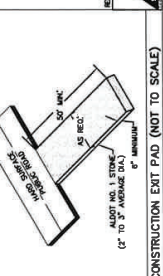
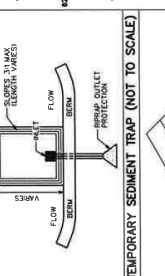
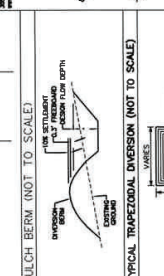
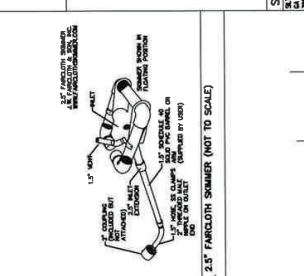
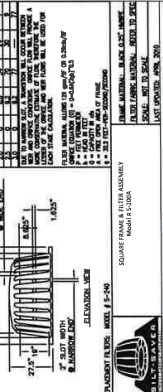
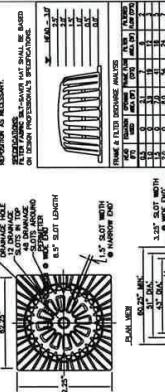
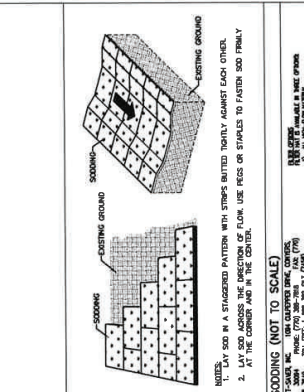
Outfall 07

Series Number	Protection Measure	Percent Reduction	Units Entering	Units Leaving	Reduction for 07:
First	Silt Fence	22.05	70	50	20
Second	Turbidity Curtain	13.05	30	16.95	13.05
Total Sediment Reduction for 07: 33.10					

Outfall 08

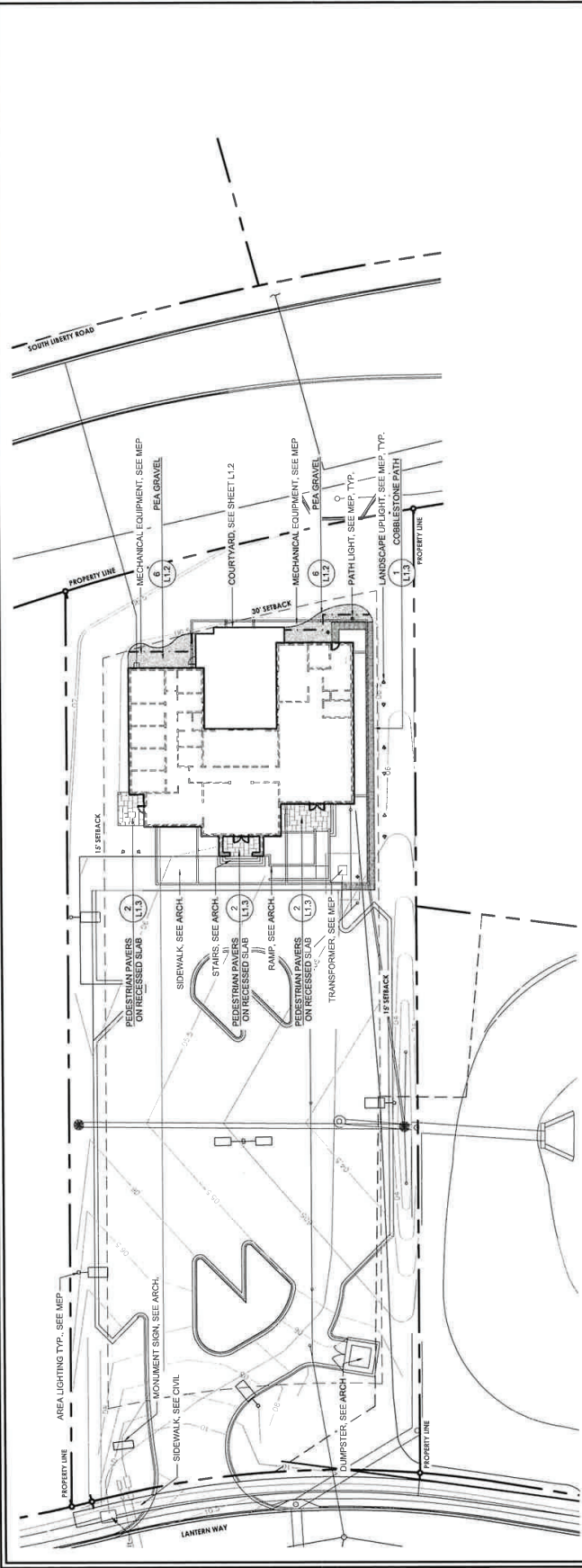
Series Number	Protection Measure	Percent Reduction	Units Entering	Units Leaving	Reduction for 08:
First	Silt Fence	22.05	70	50	20
Second	Turbidity Curtain	13.05	30	16.95	13.05
Total Sediment Reduction for 08: 33.10					





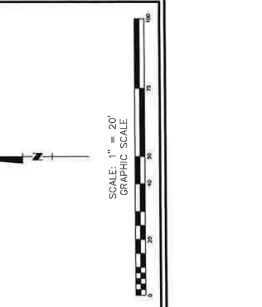
EROSION CONTROL NOTES:

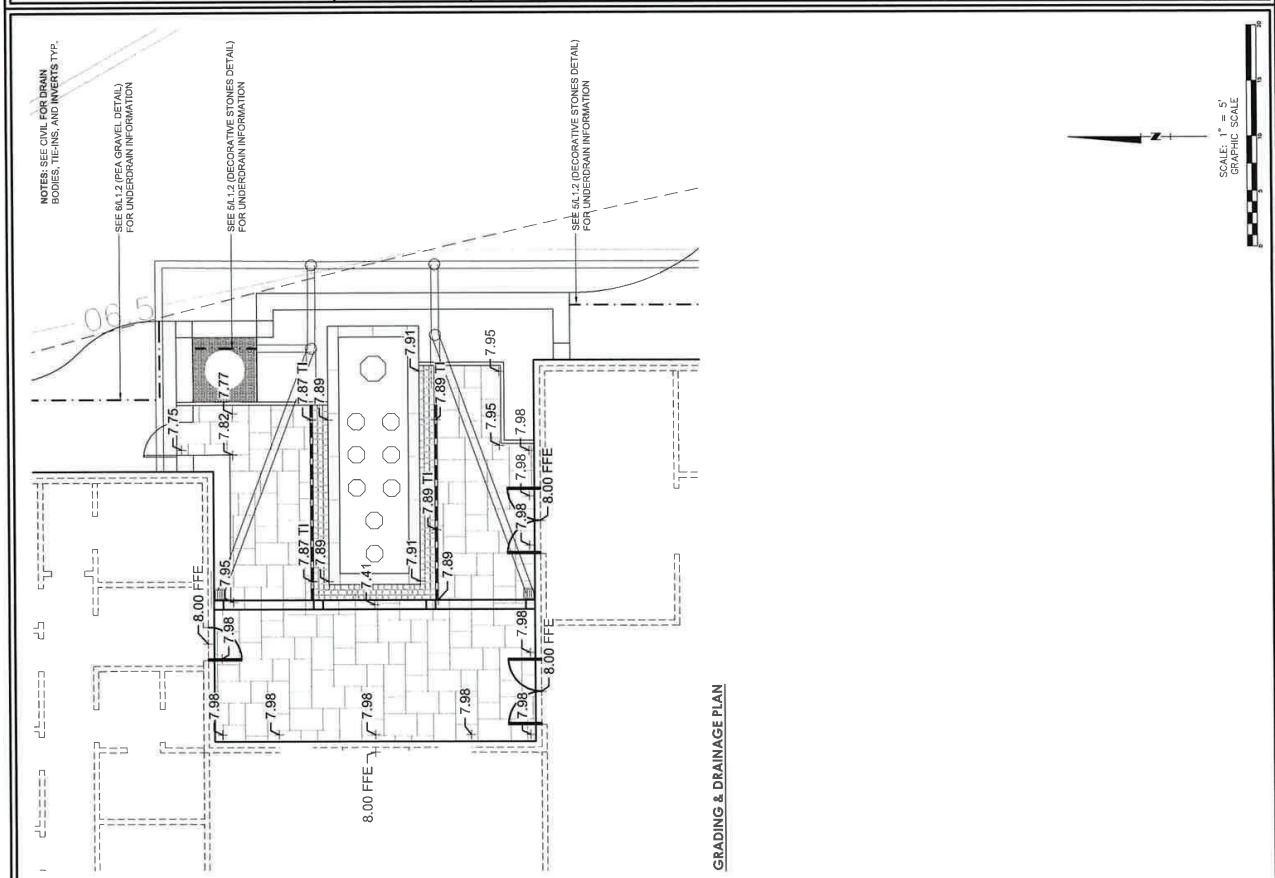
1. THE OWNER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATEMENT OF ENVIRONMENTAL MANAGEMENT (SEM) AND MAINTAIN A COPY AT THE SITE.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATEMENT OF ENVIRONMENTAL MANAGEMENT (SEM) AND MAINTAIN A COPY AT THE SITE.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATEMENT OF ENVIRONMENTAL MANAGEMENT (SEM) AND MAINTAIN A COPY AT THE SITE.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATEMENT OF ENVIRONMENTAL MANAGEMENT (SEM) AND MAINTAIN A COPY AT THE SITE.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATEMENT OF ENVIRONMENTAL MANAGEMENT (SEM) AND MAINTAIN A COPY AT THE SITE.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATEMENT OF ENVIRONMENTAL MANAGEMENT (SEM) AND MAINTAIN A COPY AT THE SITE.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATEMENT OF ENVIRONMENTAL MANAGEMENT (SEM) AND MAINTAIN A COPY AT THE SITE.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATEMENT OF ENVIRONMENTAL MANAGEMENT (SEM) AND MAINTAIN A COPY AT THE SITE.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATEMENT OF ENVIRONMENTAL MANAGEMENT (SEM) AND MAINTAIN A COPY AT THE SITE.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATEMENT OF ENVIRONMENTAL MANAGEMENT (SEM) AND MAINTAIN A COPY AT THE SITE.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATEMENT OF ENVIRONMENTAL MANAGEMENT (SEM) AND MAINTAIN A COPY AT THE SITE.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATEMENT OF ENVIRONMENTAL MANAGEMENT (SEM) AND MAINTAIN A COPY AT THE SITE.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATEMENT OF ENVIRONMENTAL MANAGEMENT (SEM) AND MAINTAIN A COPY AT THE SITE.
14. SILT FENCES ARE TEMPORARY EROSION CONTROL DEVICES THAT SHALL BE DIRECTED OPPOSITE DRAINAGE AREAS, SUCH AS NEWLY GRADED TILL, SLOPES AND ADJACENT TO STREAMS AND CHANNELS.
15. SILT FENCES SHALL BE CONSTRUCTED IN THE SHAPE OF A WIDE, SHALLOW TRENCH WITH A MINIMUM OF 10' WIDE AND 12" DEEP. THE BOTTOM OF THE TRENCH SHALL BE GRADED TO A MINIMUM OF 12" BELOW THE FINISHED GRADE. THE TRENCH SHALL BE SUPPORTED BY STEEL POSTS OR WOOD POSTS (2" DIA. OR 3" DIA.) WITH 1/2" DIA. BARS OR 1/2" DIA. BARS.
16. IN FLAT AREAS, SILT FENCES SHOULD BE CONSTRUCTED IN THE SHAPE OF A WIDE, SHALLOW TRENCH WITH A MINIMUM OF 10' WIDE AND 12" DEEP. THE BOTTOM OF THE TRENCH SHALL BE GRADED TO A MINIMUM OF 12" BELOW THE FINISHED GRADE. THE TRENCH SHALL BE SUPPORTED BY STEEL POSTS OR WOOD POSTS (2" DIA. OR 3" DIA.) WITH 1/2" DIA. BARS OR 1/2" DIA. BARS.
17. SILT FENCES ON OTHER APPROPRIATE EROSION CONTROL MEASURES AS DIRECTED ON THE PLANS SHALL BE PLACED AT THE DOWNSTREAM END OF ALL DISTURBED AREAS.
18. ALL STREAM BEDS IN DISTURBED AREAS OR IN OTHER AREAS SUBJECT TO FLOODING SHALL BE PROTECTED BY SILT FENCES. THE FENCES SHALL BE PLACED AT THE DOWNSTREAM END OF ALL DISTURBED AREAS.
19. ALL DISTURBED AREAS THAT WILL REMAIN BARE FOR MORE THAN 14 DAYS MUST BE SEEDED AND MULCHED.
20. ALL DISTURBED AREAS THAT WILL REMAIN BARE FOR MORE THAN 14 DAYS MUST BE SEEDED AND MULCHED.
21. ALL DISTURBED AREAS THAT WILL REMAIN BARE FOR MORE THAN 14 DAYS MUST BE SEEDED AND MULCHED.
22. ALL DISTURBED AREAS THAT WILL REMAIN BARE FOR MORE THAN 14 DAYS MUST BE SEEDED AND MULCHED.
23. ALL DISTURBED AREAS THAT WILL REMAIN BARE FOR MORE THAN 14 DAYS MUST BE SEEDED AND MULCHED.
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25. ALL DISTURBED AREAS THAT WILL REMAIN BARE FOR MORE THAN 14 DAYS MUST BE SEEDED AND MULCHED.
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27. ALL DISTURBED AREAS THAT WILL REMAIN BARE FOR MORE THAN 14 DAYS MUST BE SEEDED AND MULCHED.
28. ALL DISTURBED AREAS THAT WILL REMAIN BARE FOR MORE THAN 14 DAYS MUST BE SEEDED AND MULCHED.
29. ALL DISTURBED AREAS THAT WILL REMAIN BARE FOR MORE THAN 14 DAYS MUST BE SEEDED AND MULCHED.
30. ALL DISTURBED AREAS THAT WILL REMAIN BARE FOR MORE THAN 14 DAYS MUST BE SEEDED AND MULCHED.



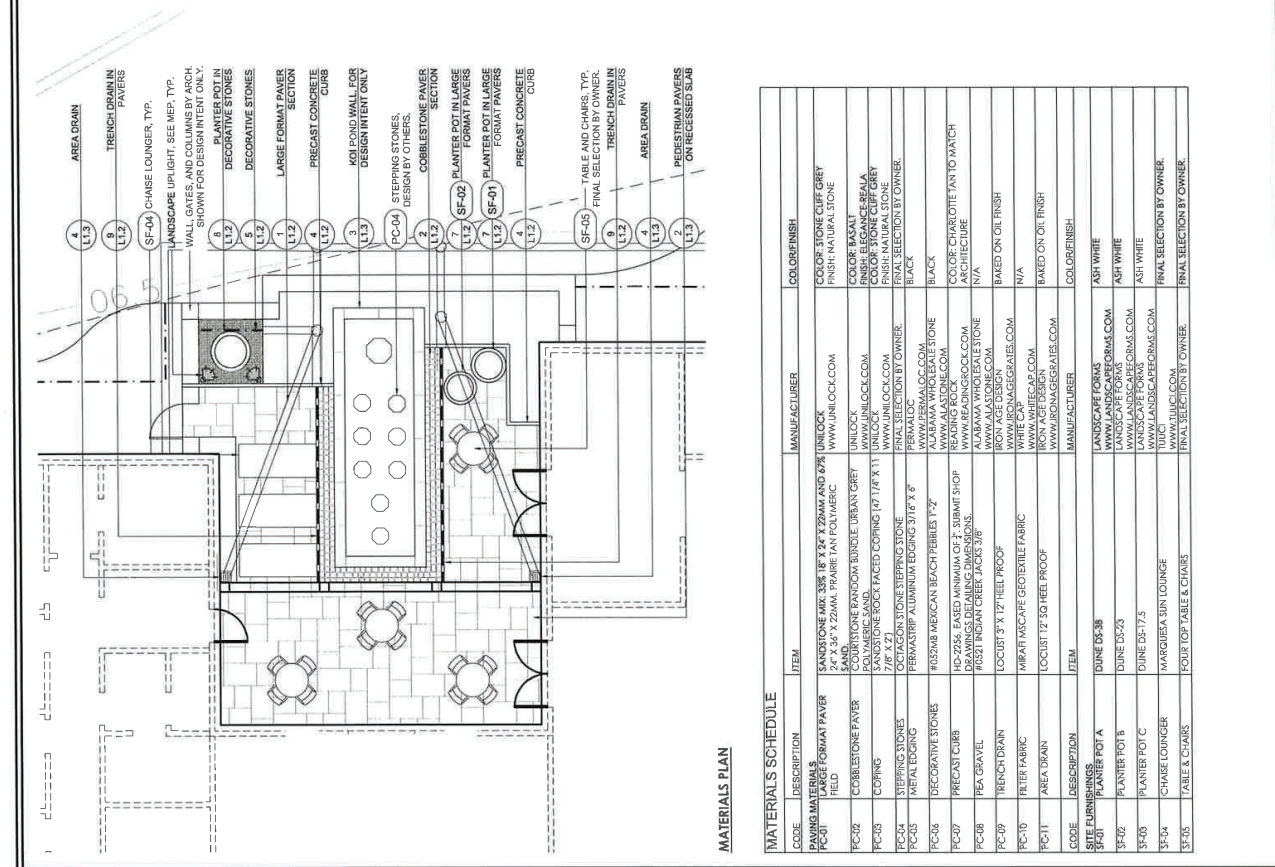
MATERIALS SCHEDULE

CODE	DESCRIPTION	ITEM	MANUFACTURER	COLOR/FINISH
PC-01	PAVING MATERIALS FORGAT PAVER FIELD	SANDSTONE 24" X 36" X 22MM AND 24" X 36" X 22MM, PRABE 1 AN POLYMERIC SAND, POLYMERIC SAND	UNILOCK WWW.UNILOCK.COM	COLOR: STONE CLIFF GREY FINISH: NATURAL STONE
PC-02	COBBLESTONE PAVER	COBBLESTONE BUNGOL LIBERTY GREY	UNILOCK WWW.UNILOCK.COM	COLOR: BASALT FINISH: ELEGANCE-REAJA
PC-03	COPIING	SANDSTONE ROCK FACED COPINGS (17" 1/2 X 11")	UNILOCK WWW.UNILOCK.COM	COLOR: STONE CLIFF GREY FINISH: NATURAL STONE
PC-04	STEPPING STONE	COBBLSTONE STEPPING STONE	UNILOCK WWW.UNILOCK.COM	COLOR: STONE CLIFF GREY FINISH: NATURAL STONE
PC-05	METAL LEDGING	PERMASTRIP ALUMINUM EDGING 3/16" X 6"	PERMALOC WWW.PERMALOC.COM	FINAL SELECTION BY OWNER.
PC-06	DECORATIVE STONES	#65202B MEXICAN BEACH PEBBLES 1/2"	WWW.ALASTONE.COM WWW.ALASTONE.COM	BLACK
PC-07	PRECAST CURB	HD-2256, EASED MINIMUM OF 7" SUBMIT SHOP	READING ROCK WWW.READINGROCK.COM	COLOR: STONE (SITE IAN TO MATCH) ACCURETIRE
PC-08	PEA GRAVEL	1/4" MASHAPE GRIOTEXILE FABRIC	WWW.ALASTONE.COM WWW.ALASTONE.COM	N/A
PC-09	TRENCH DRAIN	LOCUST 3" X 12" REEL PROOF	WWW.IRONAGEGRATES.COM	BAKED ON OIL FINISH
PC-10	FRITER FABRIC	MIRAFI MASHAPE GRIOTEXILE FABRIC	WWW.IRONAGEGRATES.COM	N/A
PC-11	AREA DRAIN	LOCUST 12" 50 REEL PROOF	WWW.IRONAGEGRATES.COM	BAKED ON OIL FINISH
SF-01	PLANTER POT A	ITEM	MANUFACTURER	COLOR/FINISH
SF-02	PLANTER POT B	DUNE DS-38	WWW.LANDSCAPEFORUMS.COM	ASH WHITE
SF-03	PLANTER POT C	DUNE DS-23	WWW.LANDSCAPEFORUMS.COM	ASH WHITE
SF-04	CHAIRSE LOUNGER	DUNE DS-7.5	WWW.LANDSCAPEFORUMS.COM	ASH WHITE
SF-05	TABLE & CHAIRS	MARQUESSA SUN LOUNGE TUUCI WWW.LANDSCAPEFORUMS.COM	WWW.LANDSCAPEFORUMS.COM	FINAL SELECTION BY OWNER.





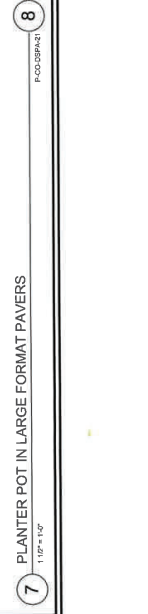
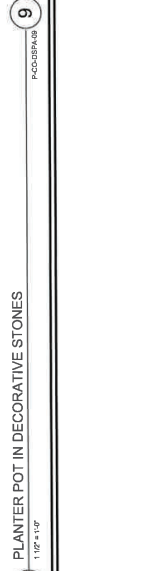
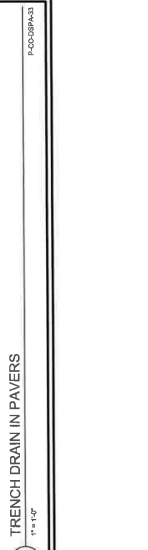
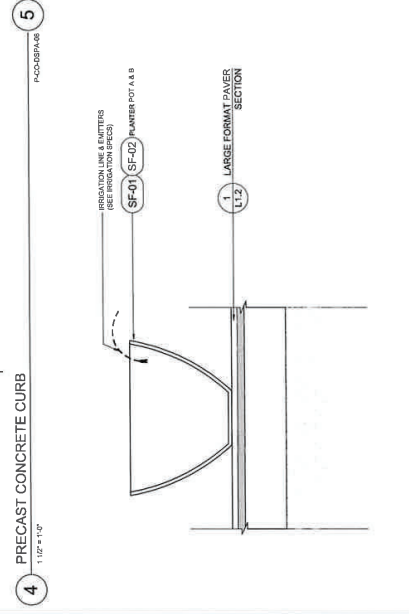
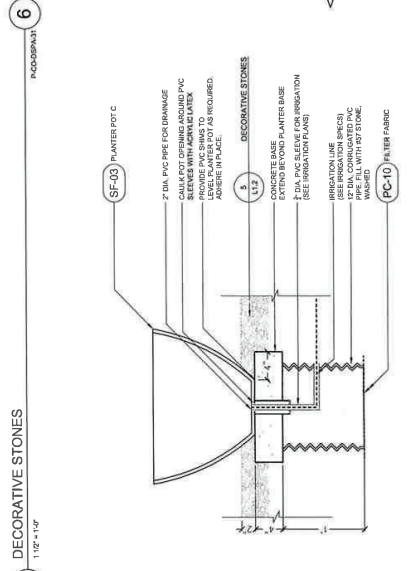
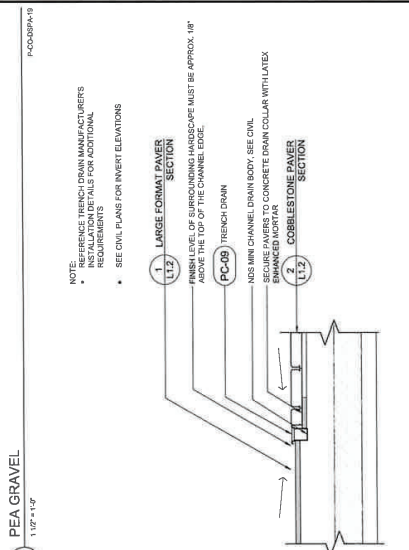
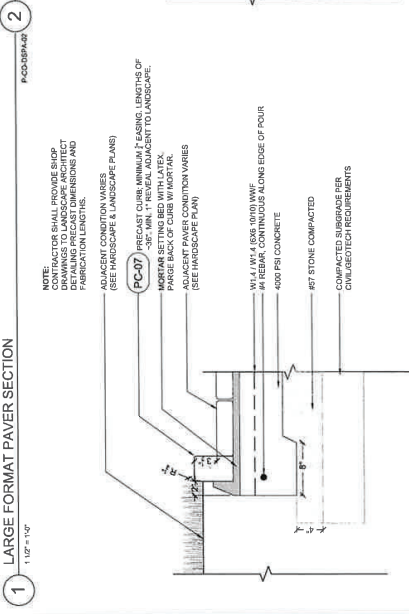
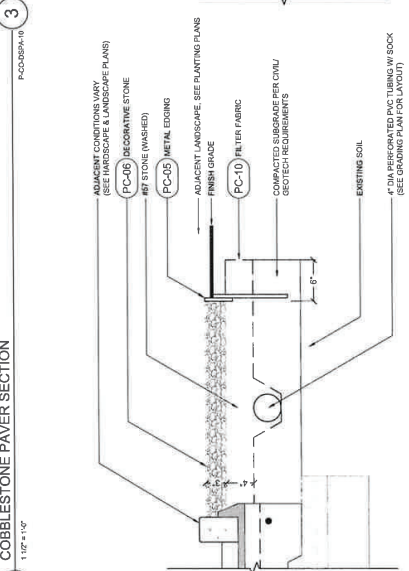
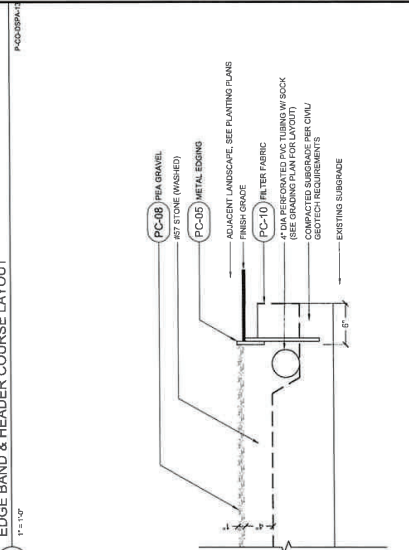
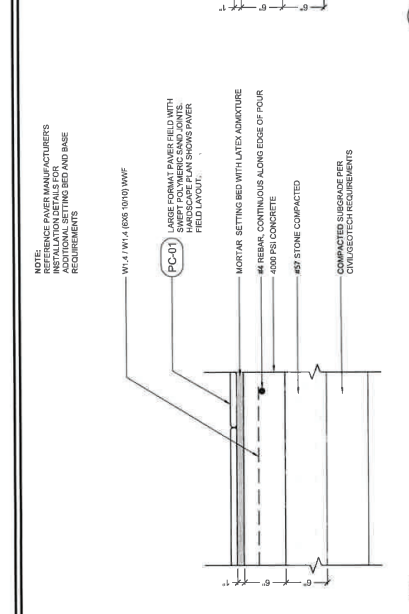
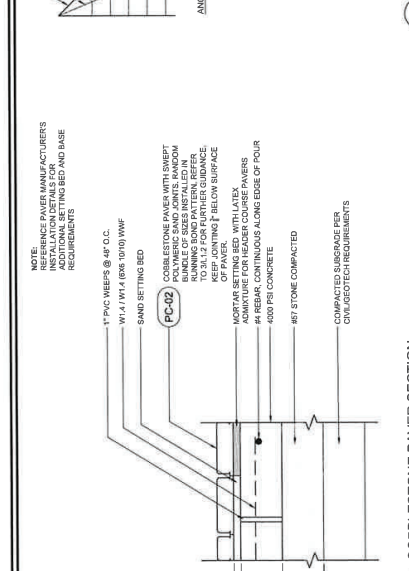
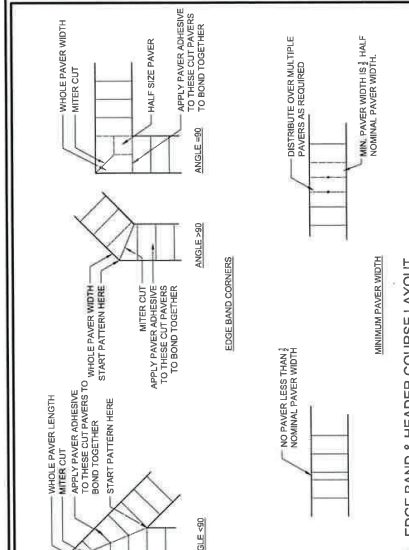
GRADING & DRAINAGE PLAN

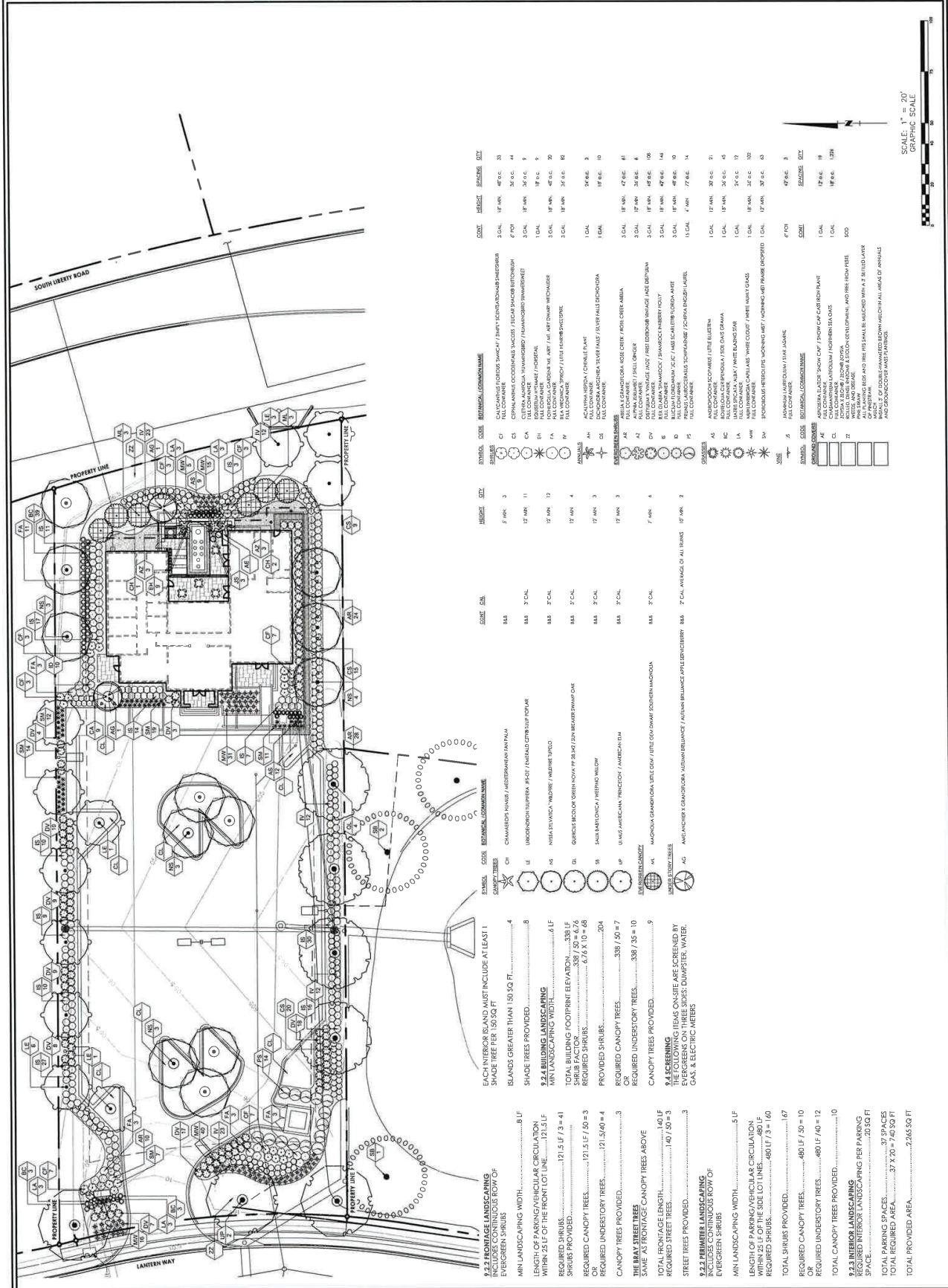


MATERIALS PLAN

CODE	DESCRIPTION	ITEM	MANUFACTURER	COLOR/FINISH
PC-01	PAVING MATERIALS LARGE FORMAT PAVES FIELD	SANDSTONE MAX. 3/8" X 24" X 24" AND 24" X 36" X 24" MAX. PRABU TAN POLYMERIC	UNILOCK WWW.UNILOCK.COM	COLOR: STONE CLIFF GREY FINISH: NATURAL STONE
PC-02	COBBLESTONE PAVES	COURT STONE RANDOM BUNDLE URBAN GREY	UNILOCK WWW.UNILOCK.COM	COLOR: BASALT FINISH: NATURAL STONE
PC-03	COPING	COBBLESTONE FUGED COPING 1/8" X 1 1/2" X 2 1/2"	UNILOCK WWW.UNILOCK.COM	COLOR: STONE CLIFF GREY FINISH: NATURAL STONE FINAL SELECTION BY OWNER.
PC-04	STEPPING STONES	OCTAGON STONE STEPPING STONE	UNILOCK WWW.UNILOCK.COM	BLACK
PC-05	WET LANDING	PERMASTRIP ALUMINUM EDGING 3/16" X 6"	WWW.PERMASTRIP.COM	BLACK
PC-06	DECORATIVE STONES	#635248 MEXICAN BEACH PEBBLES 1 1/2"	ALABAMA WHOLESALE STONE WWW.ALABAMAWHOLESALESTONE.COM	BLACK
PC-07	PRECAST CURB	HD-2216 BASED MANHOLE 2' SURMOUNT SHOP DRAWINGS DETAILING DIMENSIONS	ALABAMA WHOLESALE STONE WWW.ALABAMAWHOLESALESTONE.COM	ARCHITECTURE
PC-08	PEA GRAVEL	LOCUST 3" X 1 1/2" FILL PROOF	WWW.FEELPROOF.COM	BASED ON OIL FINISH
PC-09	TRENCH DRAIN	LOCUST 3" X 1 1/2" FILL PROOF	WWW.FEELPROOF.COM	BASED ON OIL FINISH
PC-10	FILTER FABRIC	HURBAI HSCAPE GEOTEXTILE FABRIC	WWW.HURBAI.COM	N/A
PC-11	AREA DRAIN	LOCUST 12" SQ FILL PROOF	WWW.FEELPROOF.COM	BASED ON OIL FINISH
CODE	DESCRIPTION	ITEM	MANUFACTURER	COLOR/FINISH
SF-01	CHAIR	DUNE DS-38	LANDSCAPE FORMS WWW.LANDSCAPEFORMS.COM	ASH WHITE
SF-02	PLANTER POT A	DUNE DS-23	LANDSCAPE FORMS WWW.LANDSCAPEFORMS.COM	ASH WHITE
SF-03	PLANTER POT B	DUNE DS-17.5	LANDSCAPE FORMS WWW.LANDSCAPEFORMS.COM	ASH WHITE
SF-04	CHAIR LOUNGER	HARROUK SUN LOUNGE	WWW.HARROUK.COM	FINAL SELECTION BY OWNER.
SF-05	TABLE & CHAIRS	FOUR TOP TABLE & CHAIRS	WWW.HARROUK.COM	FINAL SELECTION BY OWNER.

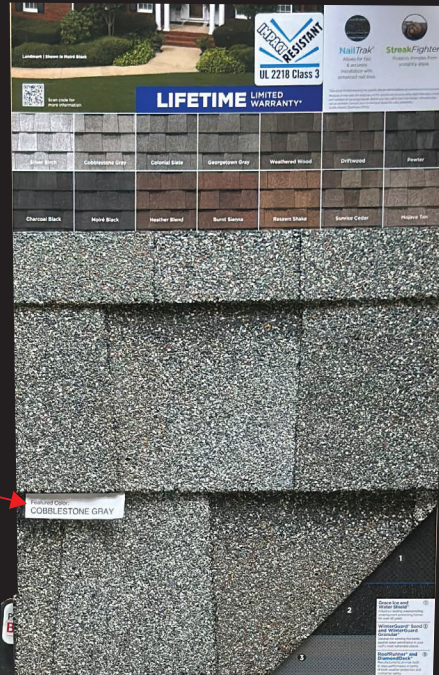
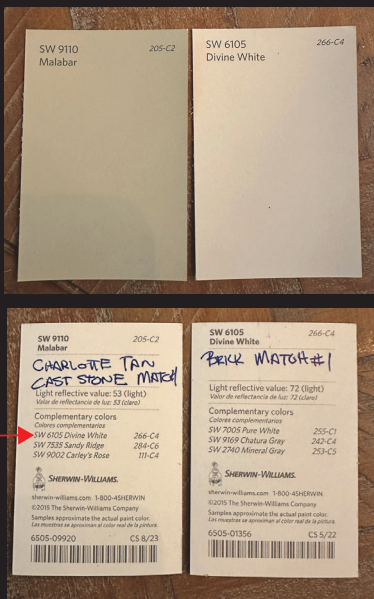






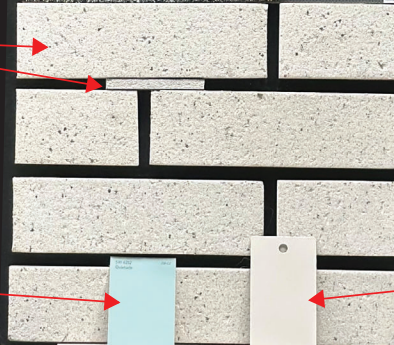
SYMBOL	CODE	RECOMMENDED COMMON NAME	HEIGHT	SPACING	NOTES
CL	C1	CALIFORNIA REDWOOD	3 GAL	18" MIN	47' x 50' 20'
CL	C2	CELANO PALM	4" POT	30' x 30'	44'
CL	C3	CELANO PALM	3 GAL	18" MIN	30' x 30'
CL	C4	CELANO PALM	1 GAL	18" MIN	18' x 18'
CL	C5	CELANO PALM	3 GAL	18" MIN	48' x 60'
CL	C6	CELANO PALM	3 GAL	18" MIN	30' x 30'
CL	C7	CELANO PALM	1 GAL	18" MIN	30' x 30'
CL	C8	CELANO PALM	1 GAL	18" MIN	30' x 30'
CL	C9	CELANO PALM	1 GAL	18" MIN	30' x 30'
CL	C10	CELANO PALM	1 GAL	18" MIN	30' x 30'
CL	C11	CELANO PALM	1 GAL	18" MIN	30' x 30'
CL	C12	CELANO PALM	1 GAL	18" MIN	30' x 30'
CL	C13	CELANO PALM	1 GAL	18" MIN	30' x 30'
CL	C14	CELANO PALM	1 GAL	18" MIN	30' x 30'
CL	C15	CELANO PALM	1 GAL	18" MIN	30' x 30'
CL	C16	CELANO PALM	1 GAL	18" MIN	30' x 30'
CL	C17	CELANO PALM	1 GAL	18" MIN	30' x 30'
CL	C18	CELANO PALM	1 GAL	18" MIN	30' x 30'
CL	C19	CELANO PALM	1 GAL	18" MIN	30' x 30'
CL	C20	CELANO PALM	1 GAL	18" MIN	30' x 30'
CL	C21	CELANO PALM	1 GAL	18" MIN	30' x 30'
CL	C22	CELANO PALM	1 GAL	18" MIN	30' x 30'
CL	C23	CELANO PALM	1 GAL	18" MIN	30' x 30'
CL	C24	CELANO PALM	1 GAL	18" MIN	30' x 30'
CL	C25	CELANO PALM	1 GAL	18" MIN	30' x 30'
CL	C26	CELANO PALM	1 GAL	18" MIN	30' x 30'
CL	C27	CELANO PALM	1 GAL	18" MIN	30' x 30'
CL	C28	CELANO PALM	1 GAL	18" MIN	30' x 30'
CL	C29	CELANO PALM	1 GAL	18" MIN	30' x 30'
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CL	C31	CELANO PALM	1 GAL	18" MIN	30' x 30'
CL	C32	CELANO PALM	1 GAL	18" MIN	30' x 30'
CL	C33	CELANO PALM	1 GAL	18" MIN	30' x 30'
CL	C34	CELANO PALM	1 GAL	18" MIN	30' x 30'
CL	C35	CELANO PALM	1 GAL	18" MIN	30' x 30'
CL	C36	CELANO PALM	1 GAL	18" MIN	30' x 30'
CL	C37	CELANO PALM	1 GAL	18" MIN	30' x 30'
CL	C38	CELANO PALM	1 GAL	18" MIN	30' x 30'
CL	C39	CELANO PALM	1 GAL	18" MIN	30' x 30'
CL	C40	CELANO PALM	1 GAL	18" MIN	30' x 30'
CL	C41	CELANO PALM	1 GAL	18" MIN	30' x 30'
CL	C42	CELANO PALM	1 GAL	18" MIN	30' x 30'
CL	C43	CELANO PALM	1 GAL	18" MIN	30' x 30'
CL	C44	CELANO PALM	1 GAL	18" MIN	30' x 30'
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CL	C46	CELANO PALM	1 GAL	18" MIN	30' x 30'
CL	C47	CELANO PALM	1 GAL	18" MIN	30' x 30'
CL	C48	CELANO PALM	1 GAL	18" MIN	30' x 30'
CL	C49	CELANO PALM	1 GAL	18" MIN	30' x 30'
CL	C50	CELANO PALM	1 GAL	18" MIN	30' x 30'
CL	C51	CELANO PALM	1 GAL	18" MIN	30' x 30'
CL	C52	CELANO PALM	1 GAL	18" MIN	30' x 30'
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CL	C54	CELANO PALM	1 GAL	18" MIN	30' x 30'
CL	C55	CELANO PALM	1 GAL	18" MIN	30' x 30'
CL	C56	CELANO PALM	1 GAL	18" MIN	30' x 30'
CL	C57	CELANO PALM	1 GAL	18" MIN	30' x 30'
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CL	C59	CELANO PALM	1 GAL	18" MIN	30' x 30'
CL	C60	CELANO PALM	1 GAL	18" MIN	30' x 30'
CL	C61	CELANO PALM	1 GAL	18" MIN	30' x 30'
CL	C62	CELANO PALM	1 GAL	18" MIN	30' x 30'
CL	C63	CELANO PALM	1 GAL	18" MIN	30' x 30'
CL	C64	CELANO PALM	1 GAL	18" MIN	30' x 30'
CL	C65	CELANO PALM	1 GAL	18" MIN	30' x 30'
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CL	C68	CELANO PALM	1 GAL	18" MIN	30' x 30'
CL	C69	CELANO PALM	1 GAL	18" MIN	30' x 30'
CL	C70	CELANO PALM	1 GAL	18" MIN	30' x 30'
CL	C71	CELANO PALM	1 GAL	18" MIN	30' x 30'
CL	C72	CELANO PALM	1 GAL	18" MIN	30' x 30'
CL	C73	CELANO PALM	1 GAL	18" MIN	30' x 30'
CL	C74	CELANO PALM	1 GAL	18" MIN	30' x 30'
CL	C75	CELANO PALM	1 GAL	18" MIN	30' x 30'
CL	C76	CELANO PALM	1 GAL	18" MIN	30' x 30'
CL	C77	CELANO PALM	1 GAL	18" MIN	30' x 30'
CL	C78	CELANO PALM	1 GAL	18" MIN	30' x 30'
CL	C79	CELANO PALM	1 GAL	18" MIN	30' x 30'
CL	C80	CELANO PALM	1 GAL	18" MIN	30' x 30'
CL	C81	CELANO PALM	1 GAL	18" MIN	30' x 30'
CL	C82	CELANO PALM	1 GAL	18" MIN	30' x 30'
CL	C83	CELANO PALM	1 GAL	18" MIN	30' x 30'
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CL	C95	CELANO PALM	1 GAL	18" MIN	30' x 30'
CL	C96	CELANO PALM	1 GAL	18" MIN	30' x 30'
CL	C97	CELANO PALM	1 GAL	18" MIN	30' x 30'
CL	C98	CELANO PALM	1 GAL	18" MIN	30' x 30'
CL	C99	CELANO PALM	1 GAL	18" MIN	30' x 30'
CL	C100	CELANO PALM	1 GAL	18" MIN	30' x 30'

SCALE: 1" = 30'
GRAPHIC SCALE



Roof -- Certainteed Landmark Color Cobblestone Gray

Brick - Palmetto Whitestone with Coosa Colonial Ivory mortar



Porch Ceiling - SW #6212 Quietude

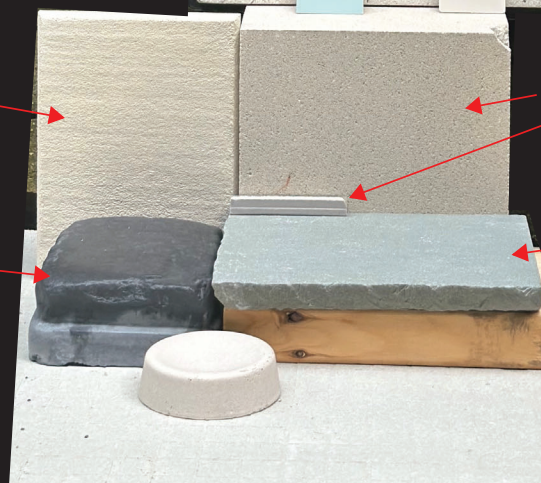
Window Clad Color - Windsor French Vanilla #LT831. SW Match #6112 Biscuit for Wood Trim, Gutters/Downspouts, and Metal Roof

Stucco -- Sider-Crete Marble Stone Texture Smooth Color C5013M Matched to SW #6105 Divine White

Cast Stone -- Rockcast Charlotte Tan with Argos Ivory Buff Mortar

Accent Paver - Unilock Courtstone Color Basalt

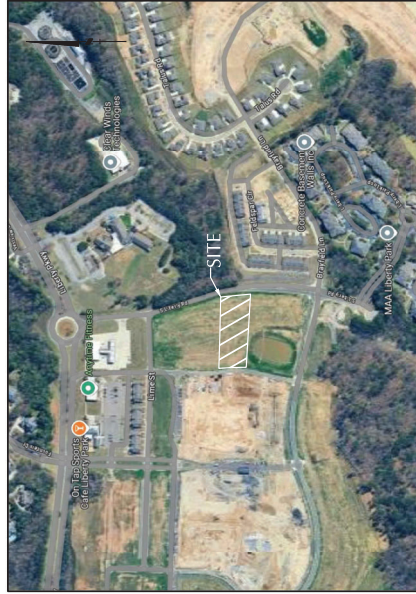
Main Paver - Unilock Sandstone Color Stone Cliff Grey



LIBERTY PARK DAY SPA VESTAVIA HILLS, ALABAMA

DRAWING INDEX

TP1	TOPOGRAPHIC SURVEY
C1-0	GENERAL NOTES
C2-0	DEMOLITION PLAN
C3-0	SITE LAYOUT PLAN
C3-1	LAYOUT COORDINATE PLAN
C4-0	GRADING & DRAINAGE PLAN
C5-0	INITIAL EROSION & SEDIMENT CONTROL PLAN
C5-1	INTERMEDIATE EROSION & SEDIMENT CONTROL PLAN
C5-2	FINAL EROSION & SEDIMENT CONTROL PLAN
C6-0	STORM PROFILE
C7-0	SITE UTILITY PLAN
C8-0	DETAILS
C8-1	DETAILS
C8-2	DETAILS
C8-3	DETAILS
C8-4	DETAILS



VICINITY MAP

N.T.S.

RELEASED FOR CONSTRUCTION

ALL WORK SHALL BE IN ACCORDANCE WITH ENVIRO SERVICES, LLC SPECIFICATIONS. THE PLANS ARE CONDITIONALLY RELEASED FOR CONSTRUCTION. SIGNED:

E.S. LLC REPRESENTATIVE	DATE
DEVELOPER	DATE
ENGINEER OF RECORD	DATE

OWNER

ABS 1 LLC
7313 KINGS MOUNTAIN PLACE
VESTAVIA HILLS, AL 35242
CONTACT: ADAM SCOTT
PHONE: (205) 541-6405

CIVIL ENGINEER

SCHOEL ENGINEERING COMPANY, INC.
1001 22ND STREET SOUTH
BIRMINGHAM, AL 35205
CONTACT: ALEX PATTILLO
PHONE: (205) 313-1138



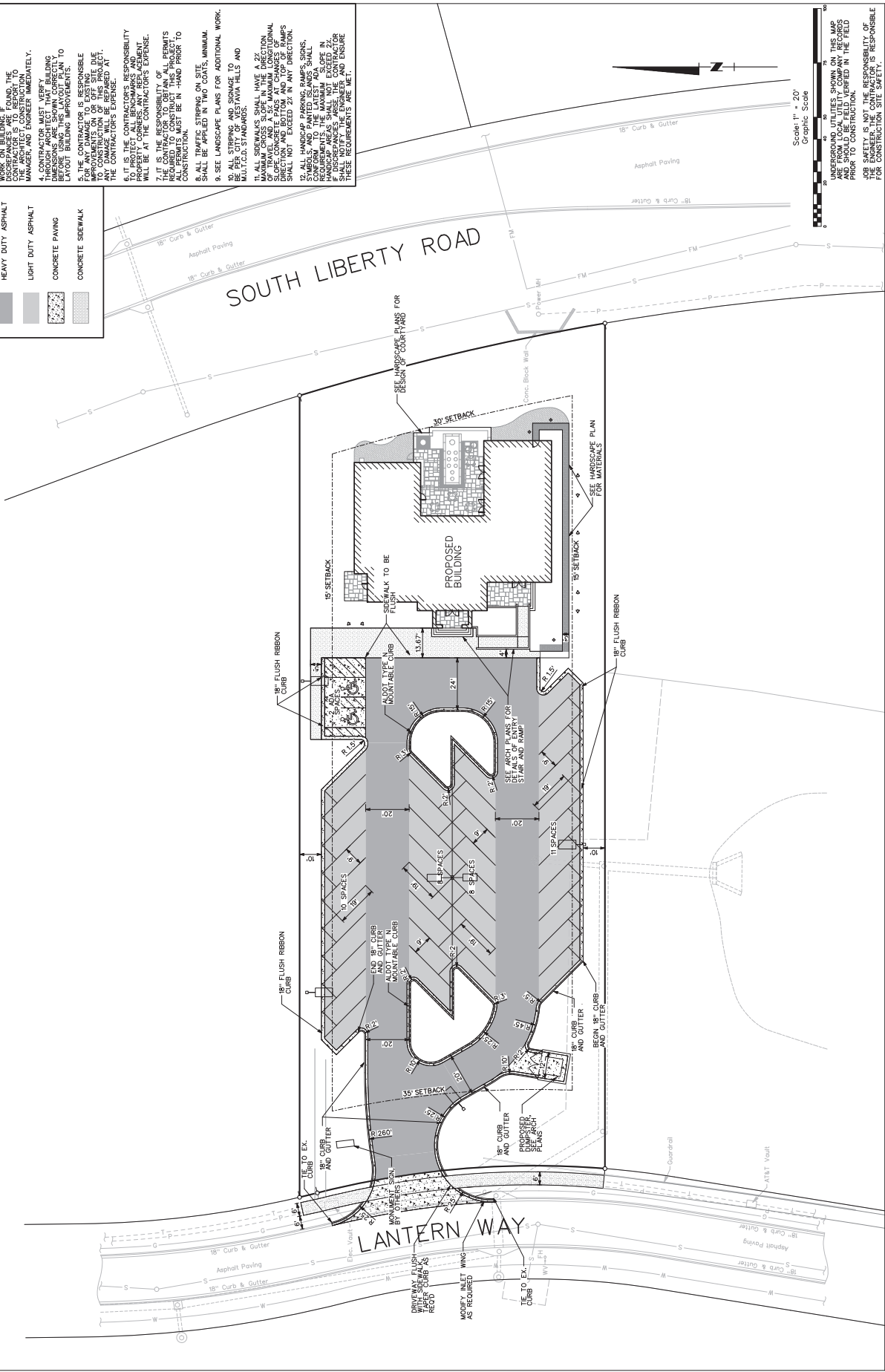
- NOTES:**
1. ALL DIMENSIONS UNLESS NOTED OTHERWISE.
 2. ALL DIMENSIONS SHOWN ARE TO THE FACE UNLESS NOTED OTHERWISE.
 3. CONTRACTOR MUST CHECK BUILDING DIMENSIONS AND FINISHES AGAINST ARCHITECT'S PLAN PRIOR TO BEGINNING WORK ON BUILDING. THE CONTRACTOR IS TO REPORT TO THE ARCHITECT IMMEDIATELY IN WRITING ANY DISCREPANCIES.
 4. CONTRACTOR MUST VERIFY THROUGH ARCHITECT THAT BUILDING DIMENSIONS AND FINISHES BEFORE USING THIS LAYOUT PLAN TO CONSTRUCT ANY IMPROVEMENTS.
 5. ANY DAMAGE TO EXISTING UTILITIES OR STRUCTURES DURING CONSTRUCTION OF THIS PROJECT SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
 6. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL BENCHMARKS AND MONUMENTS. ANY DAMAGE TO EXISTING BENCHMARKS OR MONUMENTS WILL BE AT THE CONTRACTOR'S EXPENSE.
 7. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS REQUIRED TO CONSTRUCT THIS PROJECT. ALL PERMITS MUST BE IN HAND PRIOR TO COMMENCING CONSTRUCTION.
 8. ALL TRAFFIC STRIPING ON SITE SHALL BE APPLIED IN TWO COATS, MINIMUM.
 9. SEE LANDSCAPE PLANS FOR ADDITIONAL WORK.
 10. ALL STRIPING AND SIGNAGE TO BE APPLIED TO STANARDS.
 11. ALL SIDEWALKS SHALL HAVE A 2% MAXIMUM CROSS SLOPE IN THE DIRECTION OF TRAVEL. CONCRETE PADS AT CHANGES OF SLOPE SHALL BE 24" IN ANY DIRECTION. ALL HANDICAP PARKING RAMP, SIGNS, SYMBOLS, AND PAINTED ISLANDS SHALL MEET THE MINIMUM REQUIREMENTS AS SET FORTH IN THE IBC AND ENFORCE THESE REQUIREMENTS AS MET.

PARKING TABLE

STANDARD SPACES	37
ACCESSIBLE SPACES	2
TOTAL SPACES	39

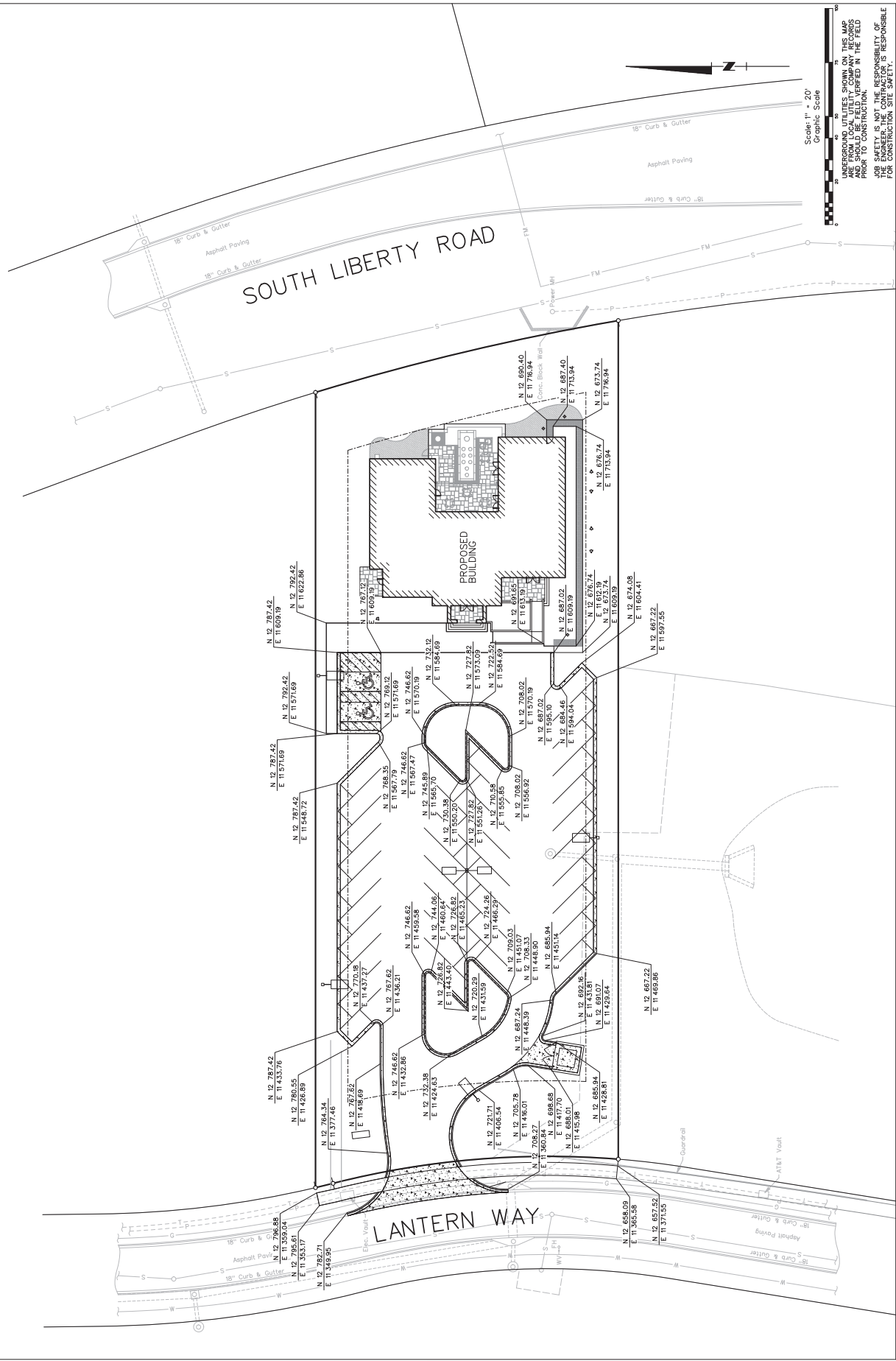
LEGEND

- HEAVY DUTY ASPHALT
- LIGHT DUTY ASPHALT
- CONCRETE PAVING
- CONCRETE SIDEWALK



Scale: 1" = 20'
 Graphic Scale

UNDERGROUND UTILITIES SHOWN ON THIS MAP ARE TO BE FIELD VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION. THE ENGINEER AND CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION SITE SAFETY.



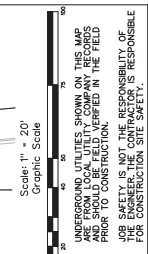
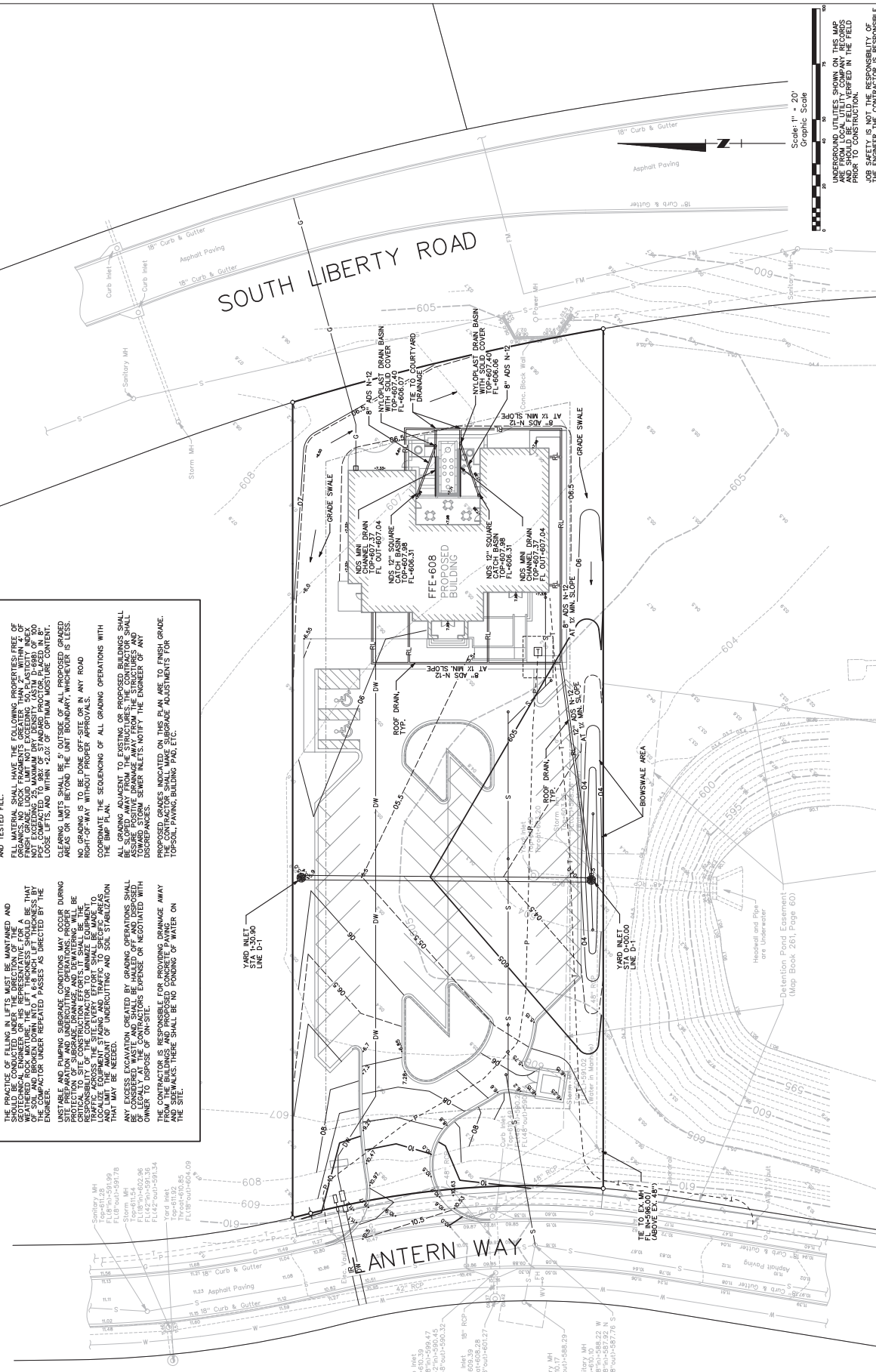
CONTRACTOR TO COORDINATE ALL EARTHWORK WITH GEOTECHNICAL EVALUATION.
CONTACT CITY OF VESTAVIA HILLS STORMWATER MANAGEMENT OFFICE 48 HOURS PRIOR TO STARTING WORK TO SCHEDULE STORMWATER INSPECTION. THE CITY OF VESTAVIA HILLS, IN AS-BUILT DRAWING OF THE SYSTEM MUST BE SUBMITTED.

ANY RESOURCES IN THE PROPOSED MASH OR EXISTING CONDITIONS, AS WELL AS QUESTIONS OR COORDINATION ITEMS, SOON AS POSSIBLE.
ALL TOPSOIL SHALL BE STRIPPED WITHIN THE PROPOSED LIMITS OF GRADING AND SHALL BE STOCKPILED ON-SITE FOR LATER USE, WITH ANY EXCESS TO BE PROPOSED TO OFF-SITE.
TRUCKS OR OTHER EQUIPMENT CAPABLE OF APPLYING HIGH TO PLACING FILL ANY AREAS SHOWING SIGNS OF FLOPPING, PUTTING OR PLACING UNSUITABLE ORGANIC AND VEGETATIVE MATERIAL FOUND AND TESTED FILL.
FILL MATERIAL SHALL HAVE THE FOLLOWING PROPERTIES: FREE OF FINISH GRADE LIQUID LIMIT NOT EXCEEDING 50, PLASTICITY INDEX NOT EXCEEDING 10, AND MOISTURE CONTENT TO 98% OF STANDARD PROCTOR. FILL TO BE LOOSE LIFTS, AND WITHIN 2.0% OF OPTIMUM MOISTURE CONTENT.
CLEARING LIMITS SHALL BE 5' OUTSIDE OF ALL PROPOSED GRADED AREAS.
NO GRADING IS TO BE DONE OFF-SITE OR IN ANY ROAD RIGHT-OF-WAY WITHOUT PROPER APPROVALS.
COORDINATE THE SEQUENCING OF ALL GRADING OPERATIONS WITH THE BMP PLAN.
ALL GRADING AND EARTHWORK TO EXISTING OR PROPOSED BUILDINGS SHALL ASSURE POSITIVE DRAINAGE AWAY FROM THE STRUCTURES AND SHALL BE VERIFIED BY SURVEY INSTRUMENTS. NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
PROPOSED GRADES INDICATED ON THIS PLAN ARE TO FINISH GRADE. TOPSOIL, PAVING, BUILDING PALETTE, ETC.

GENERAL GRADING NOTES
PLANS ALL MAIN LEADERS SHALL BE ADS N-12 PIPE.
ALL GRADING OPERATIONS SHALL BE MONITORED BY A QUALIFIED GEOTECHNICAL CONSULTANT. CROSS-SECTION AND FOR THE PROPOSED GRADING SHALL BE RESPONSIBLE FOR NOTIFYING SAID CONSULTANT IN ADVANCE OF REPORTS.
ALL VEGETATION SHALL BE REMOVED FROM AREAS TO BE GRADED, TOPSOIL, ORGANICS, SOFT SOILS, MULCH, AND SOILS THAT CANNOT BE REMOVED FROM AREAS UNDER PROPOSED BEYOND AND PAVING.
THE PRACTICE OF FILLING IN LEFTS MUST BE MAINTAINED AND SHOULD BE CONDUCTED UNDER THE DIRECTION OF THE WEATHERED ROCK MATTER. THE LIFT THICKNESS SHOULD BE THAT THE CONTRACTOR UNDER REPEATED PASSES AS DIRECTED BY THE ENGINEER.
UNSTABLE AND PUMPING SUBGRADE CONDITIONS MAY OCCUR DURING PROTECTION OF SURFACE DRAINAGE AND DRAINAGE. ALL GRADING OPERATIONS SHALL BE RESPONSIBLE OF THE CONTRACTOR TO MINIMIZE EQUIPMENT LOCALIZE EQUIPMENT STAGING AND TRAFFIC TO SPECIFIC AREAS THAT MAY BE NEEDED.
ANY EXCESS EXCAVATION CREATED BY GRADING OPERATIONS SHALL BE CONSIDERED WASTE AND SHALL BE HAILED OFF, AND DEPOSED AND DISPOSED OF OFF-SITE.
THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING DRAINAGE AWAY FROM ALL EXCAVATIONS. THERE SHALL BE NO PONDING OF WATER ON THE SITE.

SOUTH LIBERTY ROAD

ANTENNA WAY

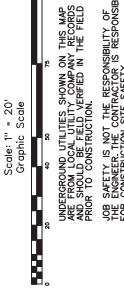


UNDERGROUND UTILITIES SHOWN ON THIS MAP ARE TO BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION. THE ENGINEER AND THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION SITE SAFETY.

NOTES:
 1. ALL SILT FENCES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION AND AFTER CONSTRUCTION.
 2. FINAL STABILIZATION OF DISTURBED AREAS MUST BE AT A MINIMUM, EXCAVATING OR OTHER EARTH DISTURBING ACTIVITIES HAVE COMPLETED. EROSION & SEDIMENT CONTROL PLANS FOR AREAS RECEIVING MATERIAL STOCKPILES SHOULD BE LOCATED ON A FLAT SURFACE. STOCKPILES SHOULD BE STABILIZED AS OUTLINED IN THE CONSTRUCTION PLAN.
 3. CONSTRUCTION AREAS FOR CONSTRUCTION USED SHALL BE LOCATED ON A FLAT SURFACE AWAY FROM FACILITY INLETS, DRAINAGE BASINS, AND OTHER SENSITIVE AREAS. STABILIZATION PREPARED TO PROVIDE STABLE EQUIPMENT ACCESS. EQUIPMENT TRACKS SHALL BE INSTALLED DOWNSTREAM OF THE DISTURBED AREA.
 4. ALL DISTURBED GROUND LEFT INACTIVE FOR MORE THAN 15 DAYS SHALL BE STABILIZED FOR SEEDING, MULCHING, OR OTHER MEANS. STABILIZATION SHALL BE COMPLETED AS SOON AS PRACTICABLE AND NOT STABILIZED MAY BE CONSIDERED AS GROUNDS FOR AN IMMEDIATE BMM STOP WORK NOTICE.

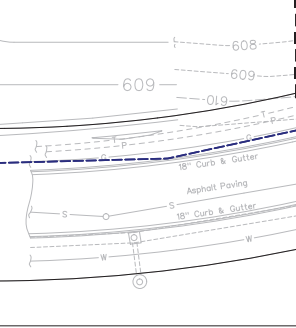
NOTES:
 1. THIS PROJECT IS LOCATED WITHIN AND ADHERES TO THE EROSION CONTROL PLAN FOR THE LOWER CUMBERLAND RIVER BASIN.
 2. THIS PROJECT IS LOCATED WITHIN THE LOWER CUMBERLAND RIVER BASIN.
 3. THIS PROJECT IS NOT LOCATED WITHIN WETLANDS.
 4. THIS PROJECT IS NOT DIRECTLY ADJACENT TO A WETLAND.
 5. THIS PROJECT IS COMPLETELY GRASSED WITH NO TREE CANOPY REMOVAL.
 6. LIMITS OF THE URBAN DISTURBANCE CLEARING LIMITS AND BELT OF WORK SHALL BE 100 FEET FROM THE PROPERTY LINE.
 7. LIMITS OF WORK SHALL BE 100 FEET FROM THE PROPERTY LINE.
 8. ALL SILT FENCES SHALL HAVE A DRAINAGE WEIR WITH SLOPE PAD PER THE DETAIL ON C7.3.

- EROSION CONTROL LEGEND**
- PIPE FLOW ARROW (E.L.)
 - SURFACE FLOW ARROW
 - LIMIT OF DISTURBANCE
 - LOW LIMITS OF WORK
 - DRAINAGE BASINS
 - EROSION CONTROL MATTING
 - SILT FENCE
 - RRPP OUTLET PROTECTION
 - TEMPORARY BERM
 - DIVERSION DITCH
 - WATTLE SEDIMENT BARRIER
 - OUTFALL LOCATION
 - INLET PROTECTION
 - MULCHING
 - TEMPORARY STABILIZATION
 - PERMANENT STABILIZATION



SILT FENCES:
 INSTALL SILT FENCES REGULARLY AND FREQUENTLY AS WELL AS AFTER EACH RAINFALL EVENT. MAINTAIN THE CHAINS OF SILT FENCES AND REPLACE AS NECESSARY. THE CHAINS SHOULD BE REPAIRED IMMEDIATELY AFTER EACH RAINFALL EVENT. THE CHAINS SHOULD BE REPAIRED IMMEDIATELY AFTER EACH RAINFALL EVENT. THE CHAINS SHOULD BE REPAIRED IMMEDIATELY AFTER EACH RAINFALL EVENT. THE CHAINS SHOULD BE REPAIRED IMMEDIATELY AFTER EACH RAINFALL EVENT.

EROSION CONTROL SEQUENCE
 1. CLEAR AN AREA LARGER THAN WHAT IS REQUIRED FOR EACH PHASE.
 2. INSTALL CONSTRUCTION ENTRANCE TO WORK AREA.
 3. INSTALL SEDIMENT TRAPS, INLET PROTECTION, TYPE A SILT FENCE, AND OTHER EROSION CONTROL DEVICES BEFORE CLEARING OPERATIONS TAKE PLACE.
 4. BEGIN CLEARING OPERATIONS ONLY AS NECESSARY TO INSTALL BMM'S.
 5. CLEARING AND GRUBBING ACTIVITIES MAY COMMENCE ONCE BMM'S ARE IN PLACE.
 6. ALL DISTURBED AREAS SHALL BE STABILIZED IMMEDIATELY WITH SEED AND STRAW.
 7. MULCHING OR OTHER BMM'S SHALL BE INSTALLED BY SEEDING, MULCHING, OR OTHER BMM'S. SEED SHALL BE APPLIED TO ALL DISTURBED AREAS. SEED SHALL BE APPLIED TO ALL DISTURBED AREAS. SEED SHALL BE APPLIED TO ALL DISTURBED AREAS.

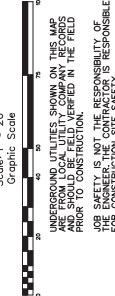
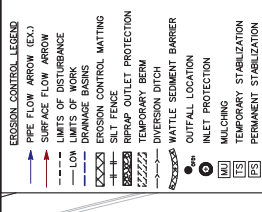


NOTES:

1. ALL DISTURBED AREAS SHALL BE STABILIZED BY SEEDING, MULCHING, OR OTHER MEANS WITHIN 14 DAYS OF COMPLETION OF THE DISTURBANCE. ALL REMAINING DISTURBED AREAS SHALL BE STABILIZED WITHIN 30 DAYS OF COMPLETION OF THE DISTURBANCE.
2. FINAL STABILIZATION OF DISTURBED AREAS MUST BE AT A MINIMUM, EXHAUSTIVE OR OTHER EARTH DISTURBING ACTIVITIES HAVE BEEN COMPLETED AND THE AREAS ARE READY FOR FINAL PERMANENT STABILIZATION.
3. ALL DISTURBED AREAS SHALL BE LOCATED ON A FLAT SURFACE. STOCKPILES SHOULD BE STABILIZED AS OUTLINED IN THE CONSTRUCTION PLAN.
4. CONSTRUCTION AREAS FOR CONSTRUCTION ACTIVITIES SHOULD BE LOCATED ON A FLAT SURFACE AWAY FROM FACILITY INLETS, DRAINAGE BASINS, AND OTHER SENSITIVE AREAS. PRELIMINARY PREPARATION TO PROVIDE STABLE EQUIPMENT ACCESS SHOULD BE COMPLETED PRIOR TO CONSTRUCTION.
5. ALL DISTURBED GROUND LEFT INACTIVE FOR MORE THAN 15 DAYS SHALL BE STABILIZED FOR SEEDING, MULCHING, OR OTHER MEANS WITHIN 14 DAYS OF COMPLETION OF THE DISTURBANCE AND NOT STABILIZED MAY BE CONSIDERED AS GROUNDS FOR AN IMMEDIATE SHUT DOWN STOP WORK NOTICE.

NOTES:

1. THIS PROJECT IS LOCATED WITHIN AND ADHERES TO THE EROSION CONTROL PLAN FOR THE LOWER CANYON RIVER BASIN.
2. THIS PROJECT IS LOCATED WITHIN THE LOWER CANYON RIVER BASIN.
3. THIS PROJECT IS NOT DIRECTLY ADJACENT TO A WETLAND.
4. THIS PROJECT IS COMPLETELY GRASSED WITH NO TREE CANOPY REMOVAL.
5. LIMITS OF THE DISTURBANCE INCLUDES CLEARING LIMITS AND IMPACTS.
6. LIMITS OF "WORKING" AREAS.
7. ALL SILT FENCES SHALL HAVE A DETAILED WEIR WITH SLOPE PAD PER THE DETAIL ON C7.3.



INLET PROTECTION:

SILT FENCES SHOULD BE CHECKED AT LEAST ONCE PER WEEK AND AFTER EACH STORM EVENT. COLLAPSED, TORN, DECOMPOSED, CLOSED, AND OTHERWISE REMOVED FROM THE DRIP AREA. WHEN ACCUMULATIONS REACH THE HEIGHT OF THE STRUCTURE, WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN ADEQUATELY STABILIZED, DISTURBED AREA TO THE GRADE OF THE DROP INLET, STABILIZE DISTURBED AREAS IN ACCORDANCE WITH THE PLANS.

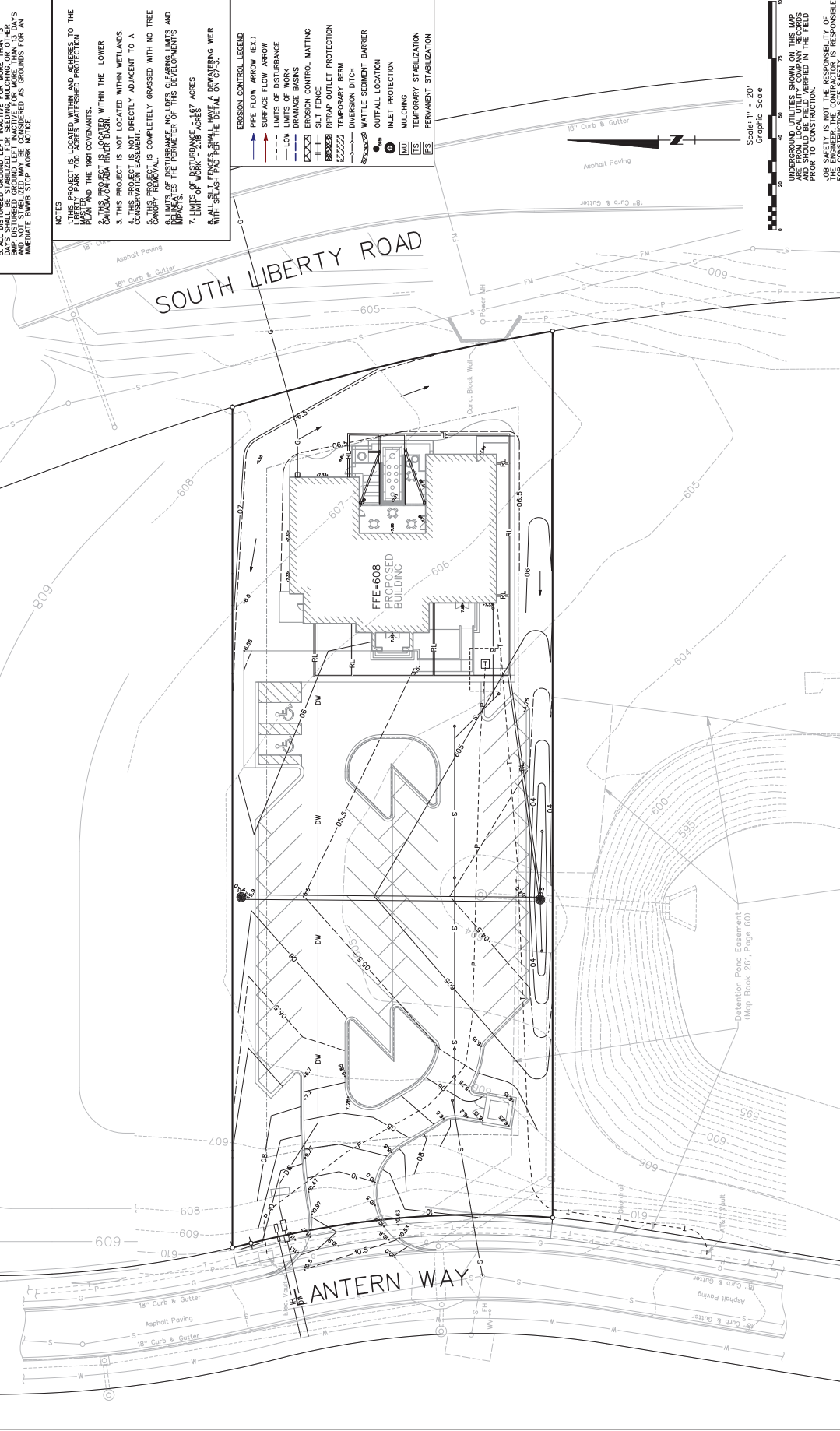
SILT FENCES:

INSPECT SILT FENCES REGULARLY AND FREQUENTLY AS WELL AS AFTER EACH RAINFALL EVENT. TO MAINTAIN SILT FENCES THAT ARE IN PLACE AND THAT THERE ARE NO GAPS WHERE THE FENCE BOTTOM OF THE SILT FENCE, INCLUDING AND BACKLAP OF THE EXPOSED FABRIC SHOULD BE DECOMPOSED OR BECOME INEFFECTIVE, IT SHOULD BE REPLACED PROMPTLY. REMOVE RESIDUAL SOIL FROM THE FENCE HEIGHT. ACCUMULATIONS SHOULD BE REMOVED MORE FREQUENTLY IF SOIL IS BEING REMOVED FROM THE DRAINAGE PATH. REMOVE SEDIMENT SHOULD BE STORED IN AN AREA AWAY FROM STEEP SLOPES AND DRAINAGE PATHS.

EROSION CONTROL SEQUENCE

1. INSTALL/MANTAIN SILT FENCES AS SHOWN ON THESE PLANS.
2. GAGE INSTALL INLET PROTECTION.
3. STABILIZE ALL AREAS LEFT INACTIVE FOR 15 DAYS OR LONGER OR ONCE WORK IS COMPLETED THROUGHOUT PROJECT.
4. ONCE FINAL GRADE HAS BEEN REACHED, STABILIZE ALL REMAINING DISTURBED AREAS WITH PERMANENT STABILIZATION MEASURES SHOWN.

NOTE: ALL DISTURBED GROUND SHALL BE STABILIZED BY SEEDING, MULCHING, OR OTHER MEANS WITHIN 14 DAYS OF COMPLETION OF THE DISTURBANCE. ALL REMAINING DISTURBED AREAS SHALL BE STABILIZED WITHIN 30 DAYS OF COMPLETION OF THE DISTURBANCE.



NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ACCUMULATED SEDIMENT FROM THE STORM DRAINS, PIPES, AND POND DURING AND AFTER CONSTRUCTION. ALL DISTURBED AREAS MUST BE RESTORED TO ORIGINAL OR BETTER CONDITION. DISTURBED AREAS MUST BE REVEGETATED IMMEDIATELY UPON COMPLETION OF CONSTRUCTION. PERMANENTLY CEASED PORTION OF THE SITE (SEE FINAL EROSION & SEDIMENT CONTROL PLAN) FOR AREAS RECEIVING PERMANENT STABILIZATION.
2. MATERIAL STOCKPILES SHOULD BE LOCATED ON A FLAT SURFACE AWAY FROM FACILITY INLETS, DRAINAGE PATHS, AND TRAVEL PATHS. CONSTRUCTION BEST MANAGEMENT PRACTICES PLAN.
3. LAYDOWN AREAS FOR CONSTRUCTION MATERIALS SHOULD BE PREPARED TO PROVIDE STABLE EQUIPMENT ACCESS. ADEQUATE DRAINAGE PATHS AND TRAVEL PATHS, A GRAVEL PAD SHOULD BE PREPARED TO PROVIDE STABLE EQUIPMENT ACCESS. ADEQUATE DRAINAGE PATHS AND TRAVEL PATHS SHOULD BE PREPARED TO PROVIDE STABLE EQUIPMENT ACCESS. ADEQUATE DRAINAGE PATHS AND TRAVEL PATHS SHOULD BE PREPARED TO PROVIDE STABLE EQUIPMENT ACCESS. ADEQUATE DRAINAGE PATHS AND TRAVEL PATHS SHOULD BE PREPARED TO PROVIDE STABLE EQUIPMENT ACCESS.
4. ALL DISTURBED GROUND LEFT INACTIVE FOR MORE THAN 15 DAYS MUST BE REVEGETATED IMMEDIATELY. ALL DISTURBED GROUND LEFT INACTIVE FOR MORE THAN 15 DAYS MUST BE REVEGETATED IMMEDIATELY. ALL DISTURBED GROUND LEFT INACTIVE FOR MORE THAN 15 DAYS MUST BE REVEGETATED IMMEDIATELY.

EROSION CONTROL SEQUENCE:

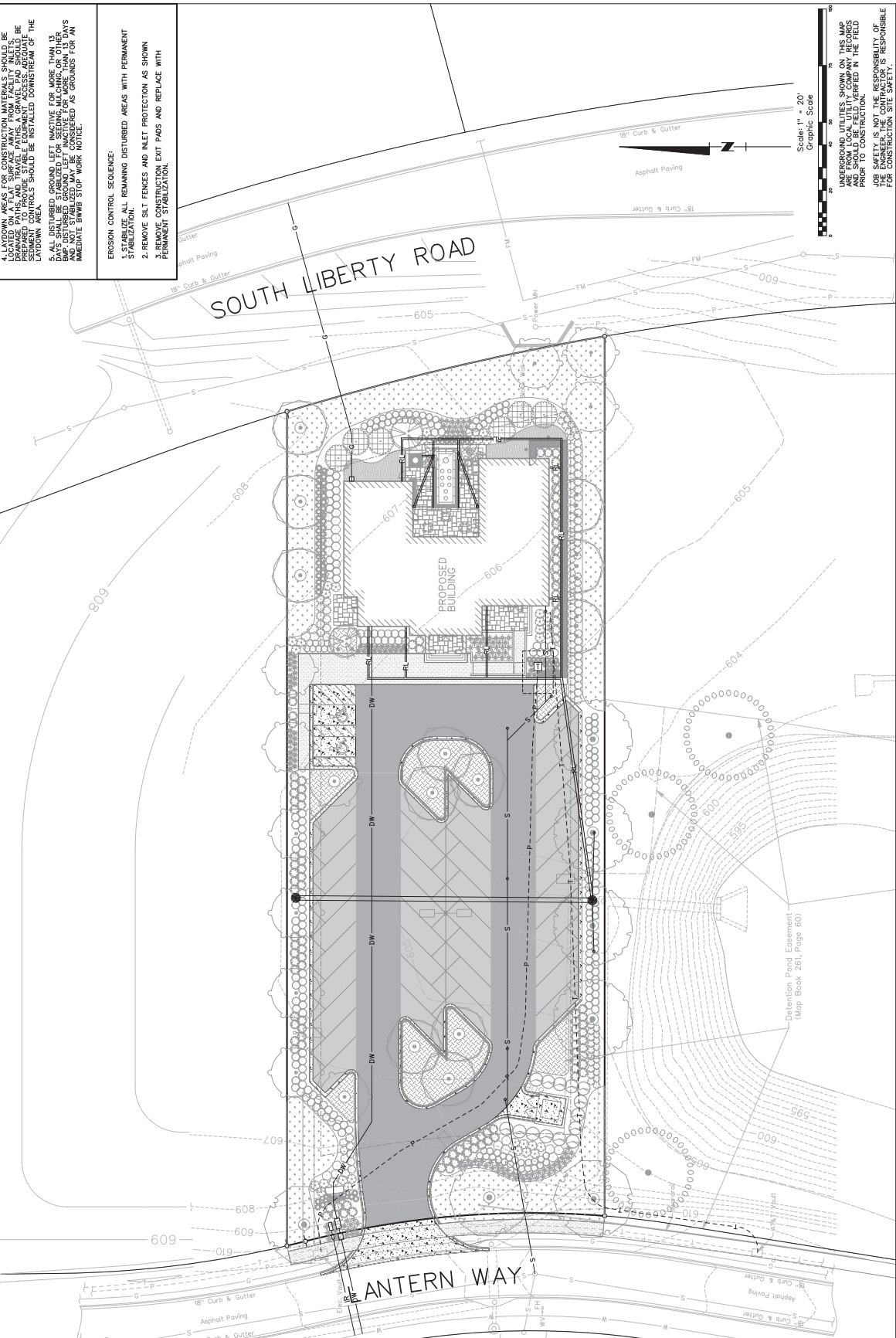
1. STABILIZE ALL REMAINING DISTURBED AREAS WITH PERMANENT STABILIZATION.
2. REMOVE SILT FENCES AND INLET PROTECTION AS SHOWN.
3. PERMANENT STABILIZATION.

EROSION CONTROL LEGEND

- Blue arrow: SURFACE FLOW AREA
- Black dashed line: LIMITS OF DISTURBANCE
- Black dashed line: LOW LIMITS OF WORK
- Black dashed line: DRAINAGE BASINS
- Black dashed line: EROSION CONTROL MATTING
- Black dashed line: OUTFALL LOCATION
- Black dashed line: MULCHING
- Black dashed line: PERMANENT STABILIZATION

LEGEND

- Grey box: HEAVY DUTY ASPHALT
- Light grey box: LIGHT DUTY ASPHALT
- White box: CONCRETE PAVING
- White box: CONCRETE SIDEWALK

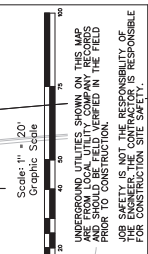
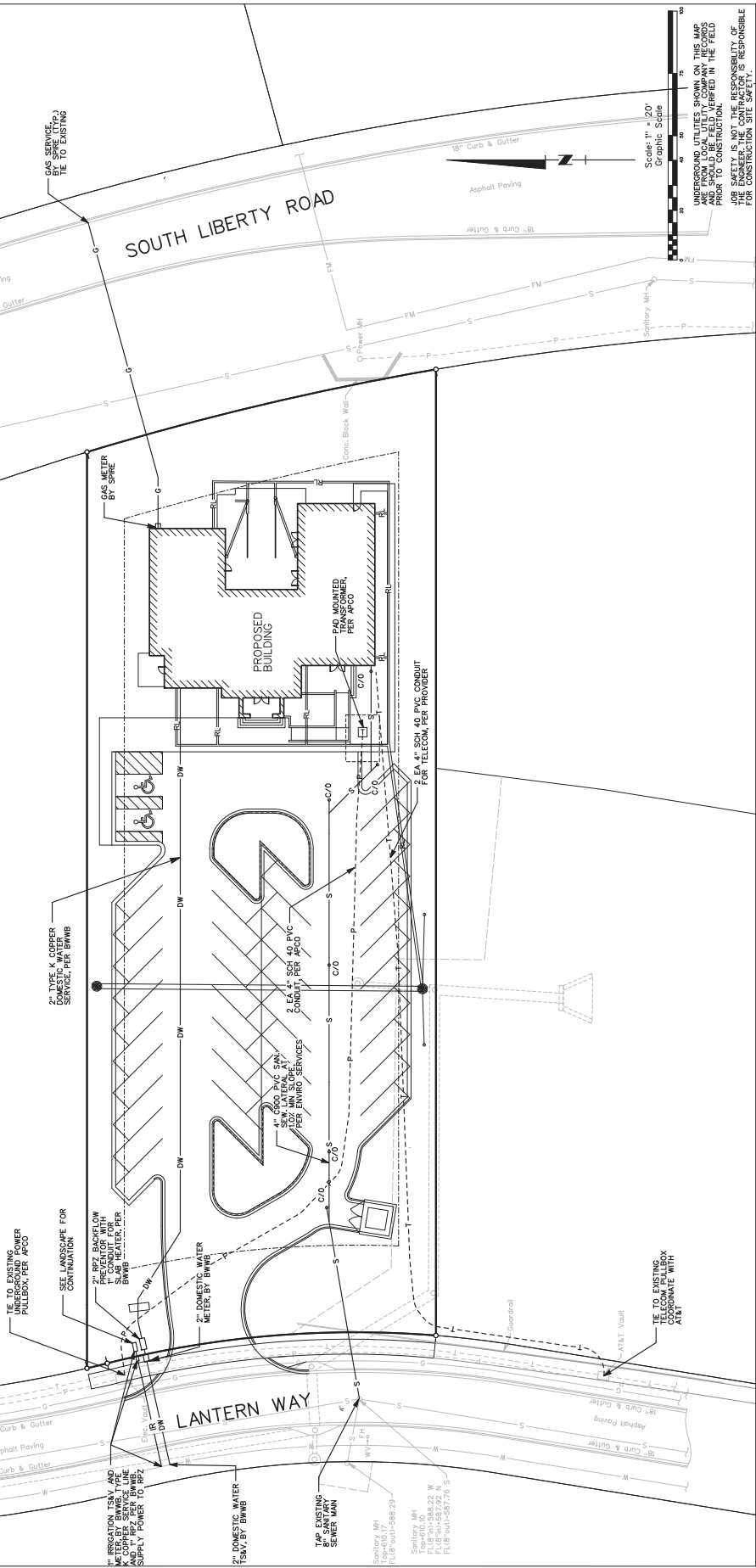


Scale: 1" = 20'
 Graphic Scale
 UNDERGROUND UTILITIES SHOWN ON THIS MAP ARE NOT TO BE FIELD VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION SITE SAFETY.

- UTILITY CONTACTS**
1. WATER: BRIMM WATER WORKS BOARD
 NAME: DOUGLASS STOKUM
 PHONE: 205-977-4400
 EMAIL: DOUGLASS.STOKUM@BWWB.ORG
 2. POWER: THE CITY OF BIRMINGHAM
 NAME: MARY JO GORDON
 PHONE: 205-977-4400
 EMAIL: MARYJO.GORDON@CITYOFBIRMINGHAM.ORG
 3. COMMUNICATION: JOSHUA HERNANDEZ
 NAME: JOSHUA HERNANDEZ
 PHONE: 205-977-4400
 EMAIL: JH@COMMUNISPREENERGY.COM
 4. SANITARY SEWER: SOUTHWEST WATER COMPANY
 NAME: JACQUELINE WATSON
 PHONE: 205-977-4400
 EMAIL: JACQUELINE.WATSON@SWWC.COM
 5. GAS: ALABAMA PIPE ENERGY
 NAME: PAT COMBASS
 PHONE: 205-977-4400
 EMAIL: PAT.COMBASS@PREENERGY.COM

- NOTE: THE BEST MANAGEMENT PRACTICES (BMP) GUIDELINES OF THE ALABAMA HANDBOOK FOR STORM WATER MANAGEMENT AND CONSTRUCTION SITE EROSION CONTROL SHALL APPLY TO ALL SITES AND URBAN AREAS.**
- SANITARY SEWER SYSTEM NOTES:**
1. ALL SANITARY SEWER SHALL BE CONSTRUCTED PER THE REQUIREMENTS OF ENVIRO SERVICES, LLC.
 2. COORDINATE ALL WORK WITH PLUMBING ENGINEERING DRAWINGS.
- PRIMARY ELECTRICAL DISTRIBUTION SYSTEM NOTES:**
1. CONTRACTOR TO COORDINATE WITH ALABAMA POWER FOR ELECTRICAL SERVICE.
 2. COORDINATE ALL WORK WITH ELECTRICAL ENGINEERING DRAWINGS.
- NATURAL GAS SYSTEM NOTES:**
1. SPIRES TO FORM AND INSTALL ALL NEW GAS MANS METERS, ETC., AS SHOWN ON THE DRAWINGS. CONTRACTOR TO COORDINATE THEIR WORK WITH SPIRE.
 2. COORDINATE ALL WORK WITH PLUMBING ENGINEERING DRAWINGS.
- PRIMARY COMMUNICATION DISTRIBUTION SYSTEM NOTES:**
1. CONTRACTOR TO COORDINATE WITH AT&T FOR ALL COMMUNICATION WORK.
 2. COORDINATE ALL WORK WITH ELECTRICAL ENGINEERING DRAWINGS.
- GENERAL NOTES:**
1. SEE PLUMBING/LANDSCAPE PLANS AND COORDINATE WITH LANDSCAPE ARCH FOR ANY REQUIRED SLEEVE LOCATIONS.
 2. SITE LIGHTING NOT SHOWN. CONTRACTOR TO COORDINATE SITE LIGHTING AND SLEEVING WITH MEP AND ARCH PLANS.

- WATER SYSTEM NOTES:**
1. ALL WATER MAINS AND RELATED APPEARANCES SHALL BE INSTALLED PER THE BRIMMINGHAM WATER WORKS BOARD.
 2. THRUST BLOCKS SHALL BE PROVIDED AT ALL BENDS, TEES, PLEGS, AND FIRE HYDRANTS IN THE WATER MAIN SYSTEM.
 3. ALL WATER MAINS SHALL HAVE 3/8" OF COVER (MINIMUM) DURING CONSTRUCTION.
 4. COORDINATE WITH THE BRIMMINGHAM WATER WORKS BOARD PRIOR TO AND DURING CONSTRUCTION.
 5. FIRE DEPARTMENT DEMAND: XXX GPM @ 20 PSI
 FIRE SPRINKLER DEMAND: XXX GPM @ XX PSI
 DOMESTIC DEMAND: XXX GPM
 6. A POST INDICATOR VALVE WILL BE INSTALLED ON THE FIRE WATER LINE FEEDING THE BUILDING. THE PIV SHALL HAVE A TAMPER SWITCH WHICH WILL BE WIRED INTO THE BUILDING FIRE ALARM SYSTEM AND MONITORED IN THE OPEN POSITION. THE TAMPER SWITCH WILL BE NEAR THE VALVE AND WILL BE NEEDED TO ISOLATE THE LINE FOR ANY REPAIRS OR SERVICE.
 7. ALL PRIVATE FIRE HYDRANTS SHALL BE RED IN COLOR AND SHALL MEET THE VESTAVIA HILLS FIRE AND RESCUE SERVICE DEPARTMENT FIRE HYDRANT SPECIFICATIONS.
 8. ALL SERVICES: BRIMMINGHAM WATER WORKS BOARD WILL INSTALL THE TAPPING SLEEVE AND VALVE. A DEVELOPER INSTALL CONTRACTOR MUST BE WIRED TO THE TAPPING SLEEVE AND INSTALLATION UP TO AND INCLUDING THE MAGNETIC FLOW METER VAULTS.
 9. DOMESTIC SERVICE AND/OR FIRE SERVICE BACKFLOW PREVENTER ASSEMBLY SHALL BE INSTALLED AT THE TAPPING POINT. CONTRACTOR SHALL REVIEW AND EVALUATE SPECIAL CONDITIONS ON A CASE BY CASE BASIS.
- 10. THE CUSTOMER WILL BE RESPONSIBLE FOR KILLING ALL EXISTING AND TEMPORARY SERVICES TO THE PROPERTY SIMULTANEOUSLY WITH THE INSTALLATION OF ANY NEW SERVICE CONNECTIONS TO THE WATER BOARD. EXISTING AND TEMPORARY SERVICES TO THE PROPERTY SHALL BE DELETED AND DELETED BEFORE THE NEW SERVICES WILL BE ACTIVATED. ANY EXISTING SERVICE TO BE REUSED BY THE CUSTOMER MUST BE APPROVED BY THE WATER BOARD'S METER DEPARTMENT AND BROUGHT UP TO CURRENT WATER BOARD STANDARD. NO EXCEPTIONS.**
- 11. THE DOMESTIC SERVICE AND/OR FIRE SERVICE BACKFLOW PREVENTER ASSEMBLY MUST NOT BE INSTALLED UNTIL THE MAGNETIC FLOW METER ASSEMBLY INSTALLATION IS COMPLETED. CONTRACTOR SHALL COORDINATE WITH THE WATER BOARD'S METER DEPARTMENT TO CONDUCT THE INSTALLATION OF THE MAGNETIC FLOW METER ASSEMBLY AND EXCEPTIONS. ANY COST ASSOCIATED WITH THE REMOVAL AND REINSTALLATION OF A BACKFLOW PREVENTER ASSEMBLY WILL BE INCURRED BY THE CUSTOMER AND NOT THE WATER BOARD.**
- 12. THE FIRE SERVICE AND/OR DOMESTIC SERVICE MAGNETIC FLOW METER VAULTS MUST HAVE LOCATION AND ELEVATION STAKES MARKED ON SITE BEFORE BWWB WILL BE CALLED TO INSTALL THE METER VAULTS. CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION. ANY COST ASSOCIATED WITH THE REMOVAL AND REINSTALLATION OF A MAGNETIC FLOW METER VAULT WILL BE INCURRED BY THE CUSTOMER AND NOT THE WATER BOARD.**
- 13. BWWB WILL NOT MAKE ANY FIELD CHANGES ONCE THE DRAWING HAS BEEN APPROVED BY BWWB PERSONNEL. IF A FIELD CHANGE IS REQUIRED, YOU MUST SUBMIT A NEW DRAWING FOR REVIEW AND APPROVAL. CONTRACTOR SHALL BE RESPONSIBLE FOR TAP AND RESPONSIBLE FOR TAP AND EXCEPTIONS.**
- 14. COORDINATE ALL WORK WITH PLUMBING ENGINEERING DRAWINGS.**



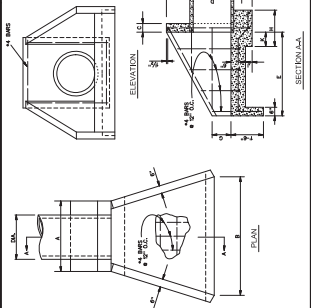
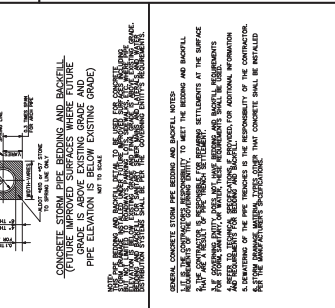
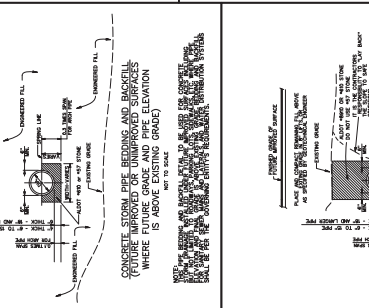
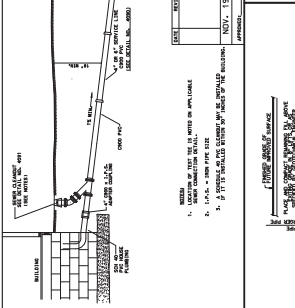
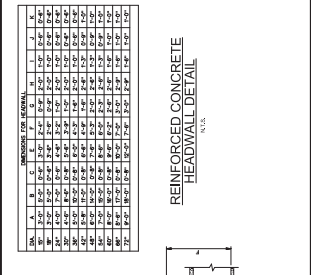
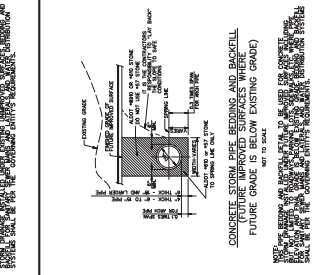
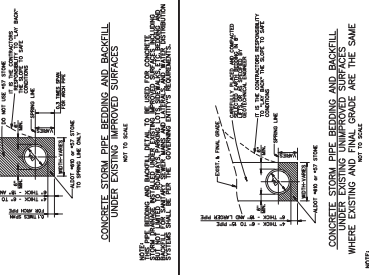
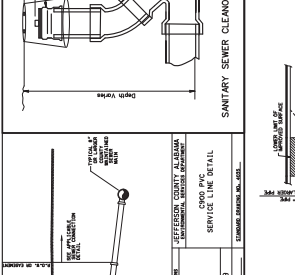
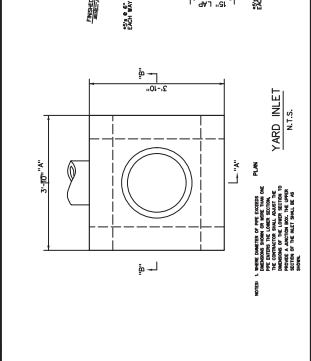
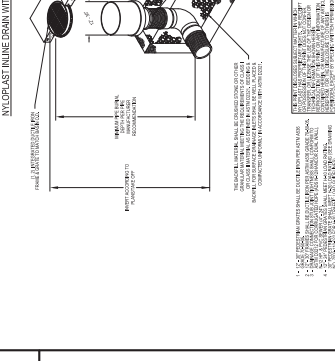
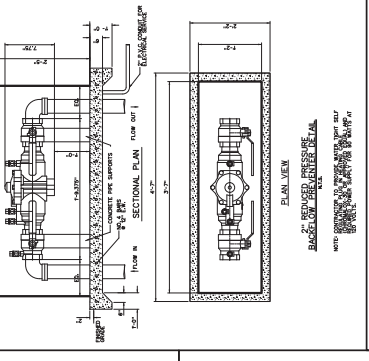
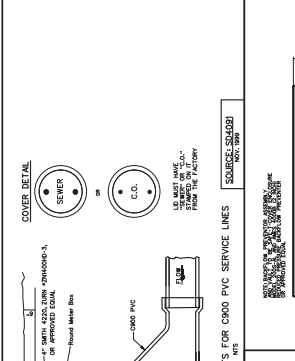
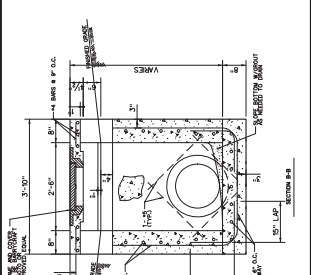
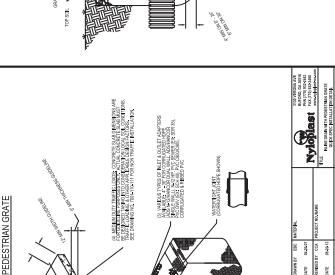
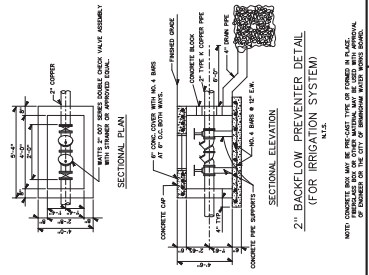
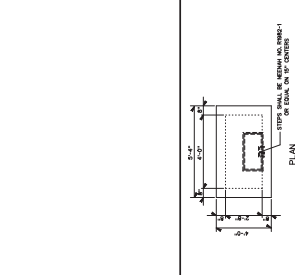
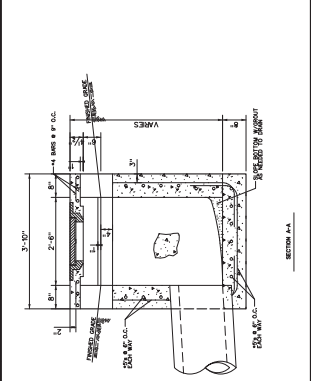
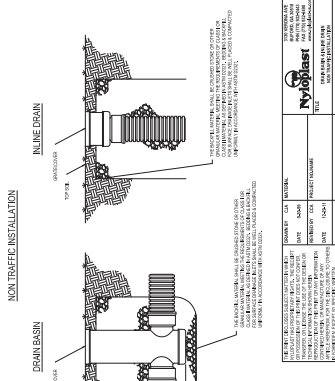
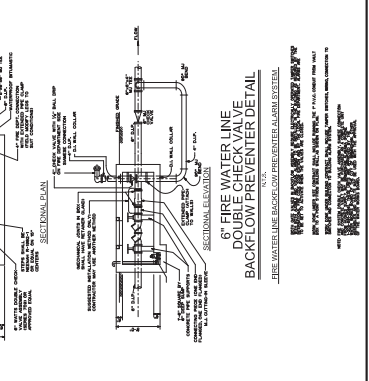
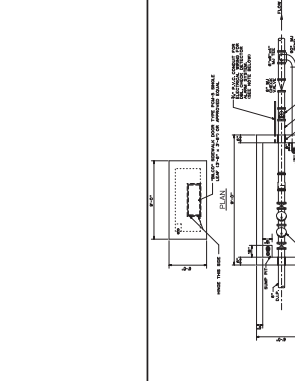
UNDERGROUND UTILITIES SHOWN ON THIS MAP AND SHOULD BE FIELD VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION. THE ENGINEER AND THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION SITE SAFETY.

DRAWING SET: CHECK SET 05/30/25
 REVISIONS:

DETAILS

DRAWN BY: J.L.S.
 CHECKED BY: A.F.P.
 FILE NAME: 249743D72

C8-1



Units: U.S.

Design Summary Sheet

Project Information

Project: 24-523 Goddard at Liberty Park

State: Alabama

County: Jefferson County

Designer: Evar Houston

Rainfall Parameters

SCS Distribution Type: Type III

Design Storm Event: 2-yr, 24-hr

Rainfall Depth: 4.34 in.

NOAA ATLAS 14

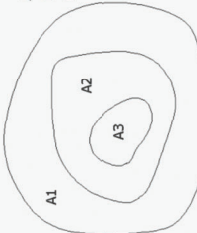
Phasing Schedule

Phase	Description	Start	End	Days
I	Predeveloped (existing) contours, cleared and grubbed.	4/1/25	5/1/25	30
II	Final contours/building pads, no parking lots, no vegetation	5/1/25	7/1/25	61
III	Final grading, permanent features installed, no vegetation.	7/1/25	9/1/25	62

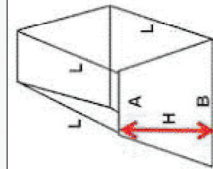
Hydrologic Analysis Summary

Outfall ID	Initial Phase (Phase I)			Intermediate Phase (Phase II)			Final Phase (Phase III)						
	Drainage Area ac	Runoff Vol. ft ³	Req. Sediment Storage yds ³	Storage Provided yds ³	Drainage Area ac	Vol. ft ³	Req. Sediment Storage yds ³	Storage Provided yds ³	Drainage Area ac	Vol. ft ³	Soil Loss ft ³ /year		
OF01	0.56	5,435	1.5	38	43	0.79	6,720	1.9	53	76	0.79	4,064	1.1
OF02	0.73	7,084	2.0	49	70	0.05	485	0.1	3	6	0.76	7,957	2.2
OF03	0.35	3,397	1.0	23	37	0.03	291	0.1	2	7	0.79	4,064	1.1
OF04	0.09	873	0.2	6	12	0.61	8,398	1.9	41	52	0.61	7,895	1.9
OF05	0.09	873	0.2	6	15	0.37	3,958	1.1	25	37	0.37	1,912	0.5
OF06	0.09	873	0.2	6	9	0.07	456	0.1	5	12	0.07	225	0.1
OF07					0.08	483	0.1	5	15	0.08	257	0.1	0
OF08					0.06	244	0.1	4	9	0.06	193	0.0	0

$$\text{Volume} = \left(\frac{A_1 + A_2 + \dots + A_n}{n} \right) \times (n-1) \times d$$



A1, A2, A3 = area
n = number of area
d = contour interval



$$\text{Volume} = \frac{1}{2} (A+B) \times H \times L$$

Impoundment Volume Formulas

Linear	$V = hL(W + \frac{Z}{2})$	
"J" Hook	$V = \frac{h^3 Z_1 Z_2}{2}$	
"C" Configuration	$V = \frac{\alpha h R}{3}$	
Half "C" Configuration	$V = \frac{\alpha h R}{6}$	

DETAILS

DRAWN BY: F.L.S.
CHECKED BY: A.F.P.
FILE NAME: 249750E3
DATE: 05/30/25

C8-2



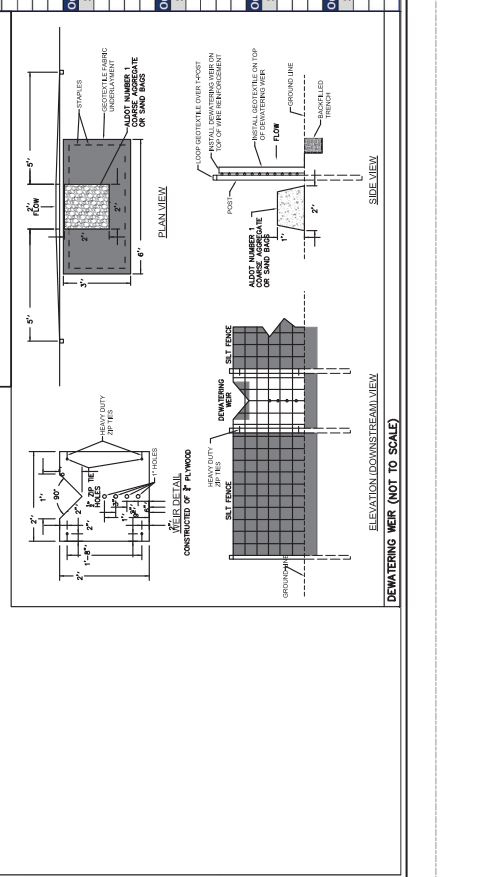
LIBERTY PARK DAY SPA
VESTAVIA HILLS, ALABAMA

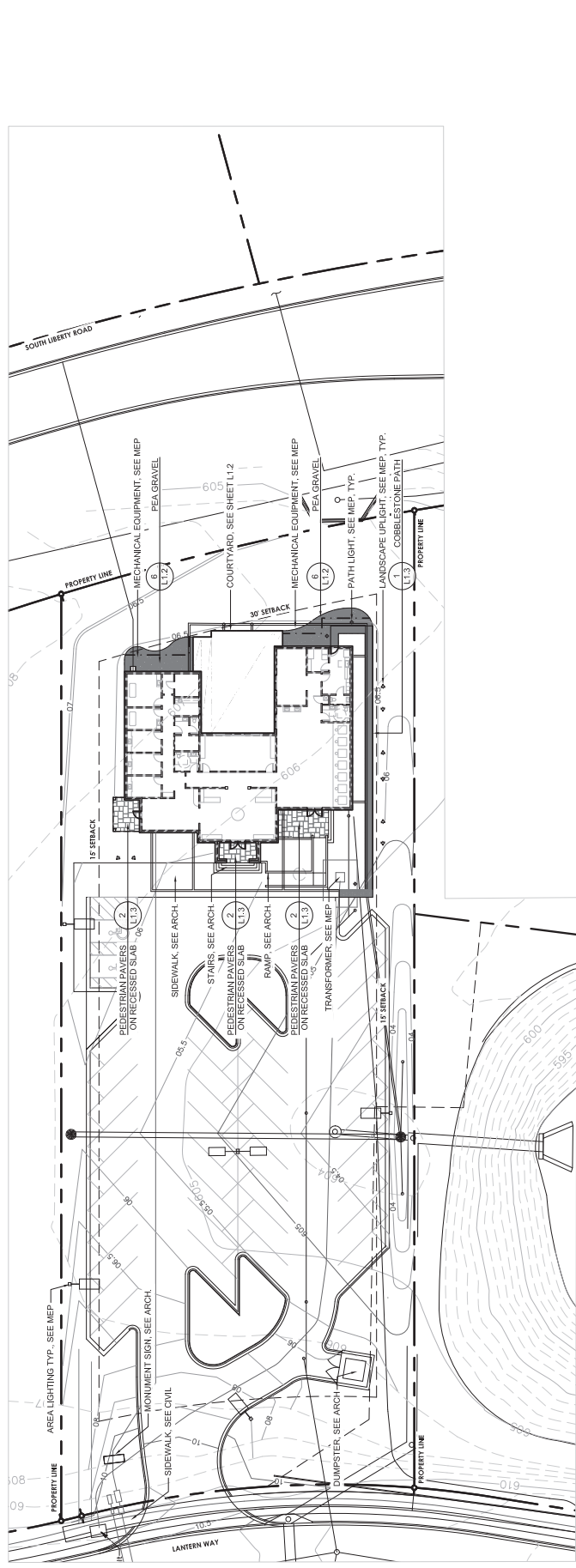
Initial BMP Summary Sheet										
BMP ID	Associated Outfall	Drainage			Intermediate BMP Summary Sheet			Storage Volume (yds ³)	Storage Volume (yds ³)	
		Area (ac)	Disturbed Area (ac)	Required Storage (yds ³)	Drainage Area (ac)	Disturbed Area (ac)	Required Storage (yds ³)			
IP-1	OF03	0.05	0.09	6	IP-1	Z1	1	40	3	
IP-2	OF03	0.08	0.08	5	IP-2	Z1	2	118	6	
IP-3	OF03	0.18	0.18	12	IP-3	Z1	3	206	9	
Initial Silt Fence Summary										
Segment ID	Associated Outfall	Silt Fence Configuration	h (ft)	W (ft)	L (ft)	Z1 (ft/ft)	Z2 (ft/ft)	R (ft)	Storage Volume (ft ³)	Storage Volume (yds ³)
1	OF04	Linear	1.33	0	118	0	0	0	314	12
2	OF05	Linear	1.33	0	154	0	0	0	410	15
3	OF06	Linear	1.33	0	96	0	0	0	255	9

Intermediate Silt Fence Summary										
Segment ID	Associated Outfall	Silt Fence Configuration	h (ft)	W (ft)	L (ft)	Z1 (ft/ft)	Z2 (ft/ft)	R (ft)	Storage Volume (ft ³)	Storage Volume (yds ³)
1	OF01	Linear	1.33	0	40	0	0	0	90	3
2	OF02	Linear	1.33	0	82	0	0	0	164	6
3	OF03	Linear	1.33	0	88	0	0	0	176	7
4	OF04	Linear	1.33	0	60	0	0	0	120	4
5	OF06	Linear	1.33	0	118	0	0	0	314	12
6	OF07	Linear	1.33	0	154	0	0	0	410	15
7	OF08	Linear	1.33	0	96	0	0	0	255	9

PS-1 COMMONLY USED PLANTS FOR PERMANENT COVER ¹									
Species	Seeding Rate (lbs per Acre)	North ³	Central ³	South ³					
Bahiagrass, Pensacola	40 lbs	Apr 1-July 1	Mar 1-July 1	Feb 1-Nov 1					
Bermudagrass, Common	10 lbs	Apr 1-July 1	Mar 1-July 1	Mar 1-July 15					
Bahiagrass, Pensacola	30 lbs	-	Mar 1-July 1	Mar 1-July 15					
Bermudagrass, Common	5 lbs	-	Mar 1-July 1	Mar 1-July 15					
Bermudagrass, Hybrid (Lawn Types)	Solid Sod	-	Anytime	Anytime					
Bermudagrass, Hybrid (Lawn Types)	Springs 1-ft ²	Mar 1-Aug 1	Mar 1-Aug 1	Feb 15-Sep 1					
Fescue, Tall	40-50 lbs	Sep 1-Nov 1	Sep 1-Nov 1	Sep 1-Nov 1					
Secirca	40-60 lbs	Mar 15-Jul 15	Mar 15-Jul 15	Feb 15-Jul 15					
Secirca & Common Bermudagrass	40 lbs	Mar 15-Jul 15	Mar 15-Jul 15	Feb 15-Jul 15					
Switchgrass, Alamo	10 lbs	Apr 1-Jun 15	Mar 15-Jul 15	Feb 15-Jul 15					
Switchgrass, Alamo	4 lbs	Apr 1-Jun 15	Mar 15-Jul 15	Mar 15-Jun 15					

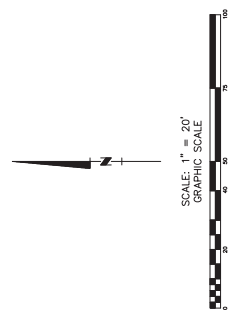
TS-1 COMMONLY USED PLANTS FOR TEMPORARY COVER ¹									
Species	Seeding Rate (lbs per Acre)	North	Central	South					
Willet, Browntop or German	40 lbs	Apr 1-Aug 1	Apr 1-Aug 1	Apr 1-Aug 15					
Rye	3 bu	Sep 1-Nov 15	Sep 15-Nov 15	Sep 15-Nov 15					
Ryegrass	30 lbs	Aug 1-Sep 15	Sep 1-Oct 15	Sep 1-Oct 15					
Sorghum-Sudan Hybrids	40 lbs	May 1-Aug 1	Apr 15-Aug 1	Apr 1-Aug 15					
Sudangrass	40 lbs	May 1-Aug 1	Apr 15-Aug 1	Apr 1-Aug 15					
Common Bermudagrass	3 bu	Sep 1-Nov 1	Sep 15-Nov 15	Sep 15-Nov 15					
Bermudagrass	10 lbs	Apr 1-July 1	Mar 15-Jul 15	Mar 15-Jul 15					
Crimson Clover	10 lbs	Sep 1-Nov 1	Sep 1-Nov 1	Sept 1-Nov 1					

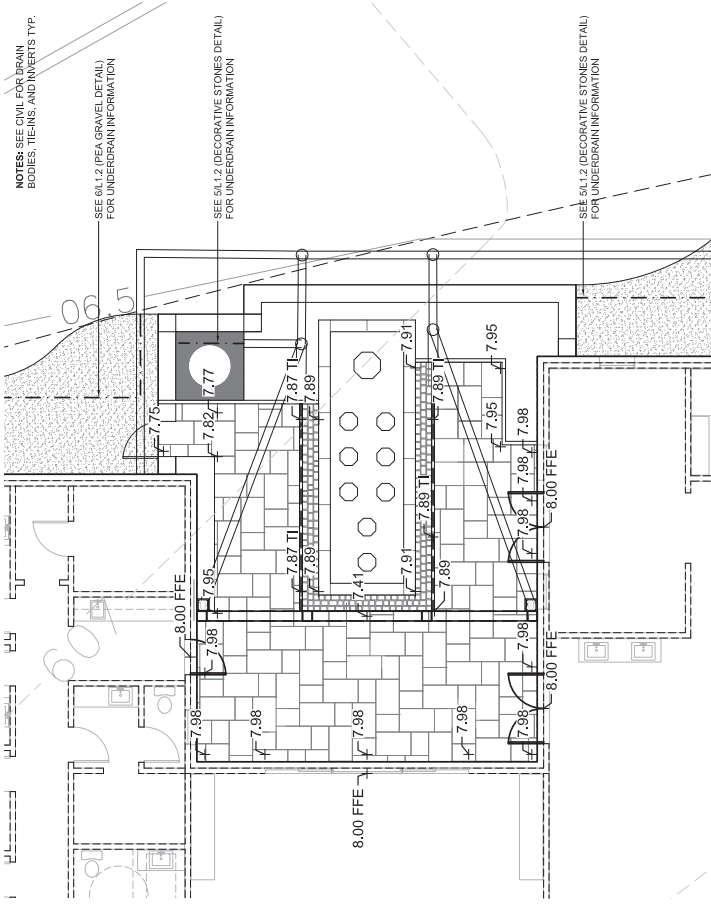




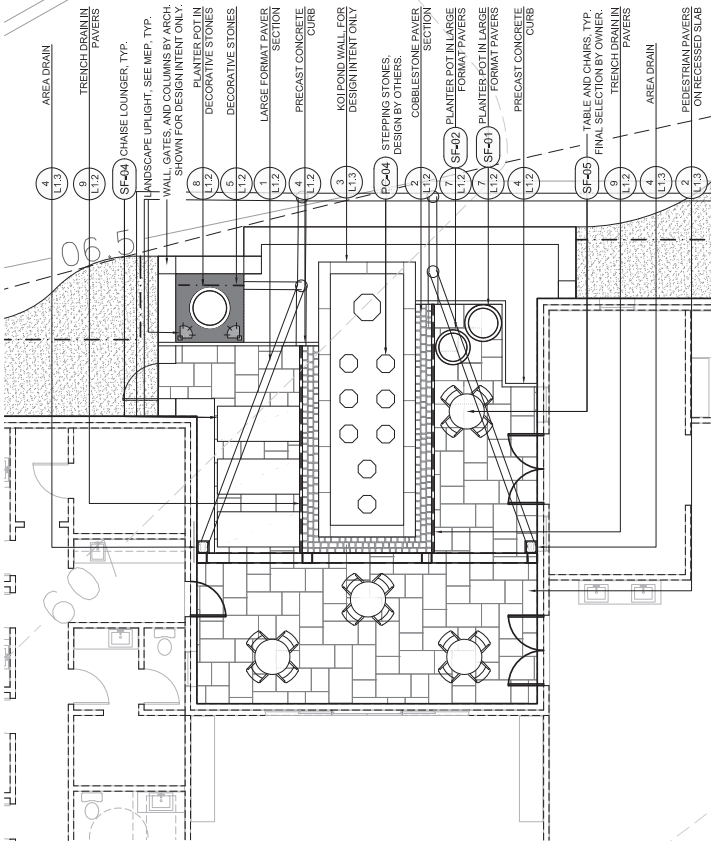
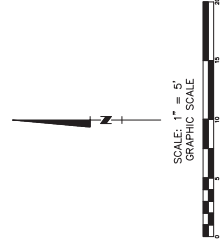
MATERIALS SCHEDULE

CODE	DESCRIPTION	ITEM	MANUFACTURER	COLOR/FINISH
PC-01	PAVING MATERIALS			
PC-01	LARGE FORMAY PAVER	SANDSTONE MKR, 33% 18" X 24" X 22MM AND 67% 24" X 36" X 22MM, P/ABIE TAN POLYMERIC FIELD	UNILOCK WWW.UNILOCK.COM	COLOR: STONE CLIFF GREY FINISH: NATURAL STONE
PC-02	COBBLESTONE PAVER	COURTSTONE RANDOM BUNDLE, URBAN GREY	UNILOCK WWW.UNILOCK.COM	COLOR: BASALT
PC-03	COPING	POLYMERIC SAND	UNILOCK WWW.UNILOCK.COM	FINISH: ELEGANCE-RELA
PC-04	STEPPING STONES	INDUSTRIAL ROCK FACED COPING (47 7/4" X 11 1/2" X 4" X 4")	UNILOCK WWW.UNILOCK.COM	FINISH: NATURAL STONE
PC-05	METAL EDGING	PERMASTRIP ALUMINUM EDGING 3/16" X 6"	PERMALOC WWW.PERMALOC.COM	FINAL SELECTION BY OWNER.
PC-06	DECORATIVE STONES	#052018 MEXICAN BEACH FIBERLS 1/2"	WWW.PERMALOC.COM WWW.ALASTONE.COM	BLACK
PC-07	PRECAST CURB	HD-2256, EASED MINIMUM OF 1/2", SUBMIT SHOP DRAWINGS, DETAILING DIMENSIONS.	READING ROCK WWW.READINGROCK.COM	COLOR: CHARLOTTE TANTO MATCH ARCHITECTURE
PC-08	PEA GRAVEL	LOCLUST 3" X 12" FINEE PROOF	WWW.ALASTONE.COM	N/A
PC-09	RIFLER FABRIC	MBRARI MASCAP GRO/TEXTILE FABRIC	IRON AGE DESIGN WWW.MBRARI.COM	BAKED ON OIL FINISH
PC-10	AREA DRAIN	LOCLUST 12" 30" FHEE PROOF	WWW.WHIECAP.COM WWW.MBRARI.COM	N/A
PC-11	AREA DRAIN	LOCLUST 12" 30" FHEE PROOF	WWW.MBRARI.COM	BAKED ON OIL FINISH
			MANUFACTURER	COLOR/FINISH
SP-01	SITE FURNISHINGS			
SP-01	PLANTER POT A	DUNE DS-38	LANDSCAPE FORUM WWW.LANDSCAPEFORUM.COM	ASH WHITE
SP-02	PLANTER POT B	DUNE DS-23	LANDSCAPE FORUM WWW.LANDSCAPEFORUM.COM	ASH WHITE
SP-03	PLANTER POT C	DUNE DS-17.5	LANDSCAPE FORUM WWW.LANDSCAPEFORUM.COM	ASH WHITE
SP-04	CHAIRSE LOUNGER	MARQUESSA SUN LOUNGE	WWW.LANDSCAPEFORUM.COM	FINAL SELECTION BY OWNER.
SP-05	TABLE & CHAIRS	FOUR TABLE & CHAIRS	WWW.LANDSCAPEFORUM.COM	FINAL SELECTION BY OWNER.





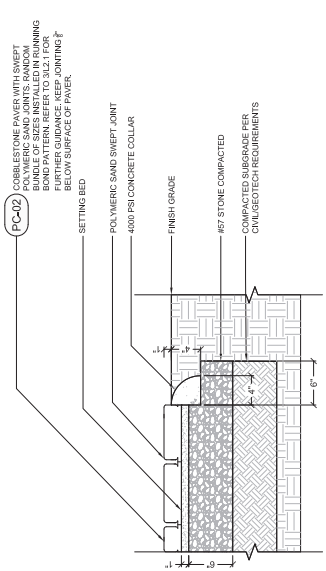
GRADING & DRAINAGE PLAN



MATERIALS PLAN

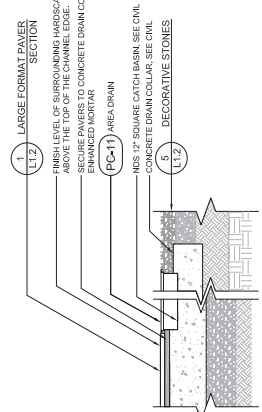
CODE	DESCRIPTION	ITEM	MANUFACTURER	COLOR/FINISH
PC-01	PAVING MATERIALS			
PC-01	LARGE FORMAT PAVEMENT	STONESTONE MK-338, 18" X 24" X 22MM AND 67% SAND, 8" X 22MM, PRAIRIE TAN POLYMERIC	UNILOCK WWW.UNILOCK.COM	COLOR: STONE CLIFF GREY FINISH: NATURAL STONE
PC-02	COBBLESTONE PAVEMENT	COURTSTONE RANDOM BUNDLE, URBAN GREY POLYMERIC SAND	UNILOCK WWW.UNILOCK.COM	COLOR: BASALT FINISH: ELEGANCE BEALA
PC-03	CORING	PERMASTRIP ROCK FACED CORING (67 1/4" X 11 7/8" X 2")	PERVALOC WWW.PERVALOC.COM	FINISH: NATURAL STONE FINAL SELECTION BY OWNER.
PC-04	STEPPING STONES	OCTAGON STONE STEPPING STONE	PERVALOC WWW.PERVALOC.COM	BLACK
PC-05	METAL EDGING	PERMASTRIP ALUMINUM EDGING 3/16" X 6"	ALABAMA WHOLESALE STONE WWW.ALASTONE.COM	BLACK
PC-06	DECORATIVE STONES	#052WB MEXICAN BEACH PEBBLES 1/2"	ALABAMA WHOLESALE STONE WWW.ALASTONE.COM	COLOR: CHARLOTTE TANTO TO MATCH C/C/C FINISH
PC-07	PRECAST CURB	HD-2256, EASED MINIMUM 0FT., SUBMIT SHOP DRAWING FOR APPROVAL	ALABAMA WHOLESALE STONE WWW.ALASTONE.COM	N/A
PC-08	PEA GRAVEL	#0281 INDIAN CHEESE JACKS 3/8"	ALABAMA WHOLESALE STONE WWW.ALASTONE.COM	BAKED ON OIL FINISH
PC-09	TRENCH DRAIN	LOCUST 3" X 12" HEEL PROOF	WWW.PEASEREGATES.COM WWW.WHITCAP.COM	BAKED ON OIL FINISH
PC-10	FILTER FABRIC	MIRAFIMASCARE GEOTEXTILE FABRIC	WWW.PEASEREGATES.COM WWW.WHITCAP.COM	BAKED ON OIL FINISH
PC-11	AREA DRAIN	LOCUST 12" 50 HEEL PROOF	WWW.PEASEREGATES.COM	BAKED ON OIL FINISH
SITE FURNISHINGS				
SF-01	PLANTER POT A	DUNE DS-58	LANDSCAPE FORMAS WWW.LANDSCAPEFORMAS.COM	ASH WHITE
SF-02	PLANTER POT B	DUNE DS-23	LANDSCAPE FORMAS WWW.LANDSCAPEFORMAS.COM	ASH WHITE
SF-03	PLANTER POT C	DUNE DS-17.5	LANDSCAPE FORMAS WWW.LANDSCAPEFORMAS.COM	ASH WHITE
SF-04	CHAIRSE LOUNGER	MARGUERITE SUN LOUNGE	WWW.TUJIC.COM	FINAL SELECTION BY OWNER.
SF-05	TABLE & CHAIRS	FOUR TOP TABLE & CHAIRS	WWW.TUJIC.COM	FINAL SELECTION BY OWNER.

NOTE:
 1. COBBLESTONE PAVEMENT MANUFACTURERS INSTALLATION DETAILS FOR RECESSED SLAB AND BASE REQUIREMENTS



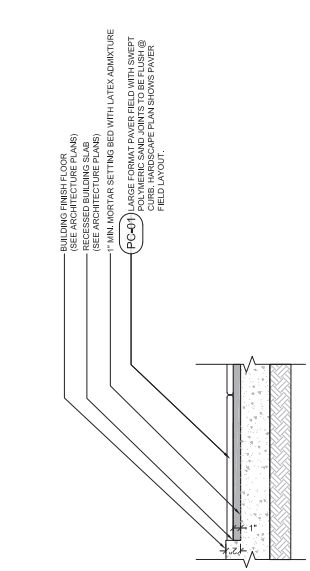
1 COBBLESTONE PATH
 1'10" x 1'0"

NOTE:
 1. REFER TO AREA DRAIN MANUFACTURERS INSTALLATION DETAILS FOR ADDITIONAL REQUIREMENTS
 2. SEE CIVIL PLANS FOR INVERT ELEVATIONS



4 AREA DRAIN
 1' x 1'0"

NOTE:
 1. REFER TO PAVEMENT MANUFACTURERS INSTALLATION DETAILS FOR ADDITIONAL SETTING BED AND BASE REQUIREMENTS



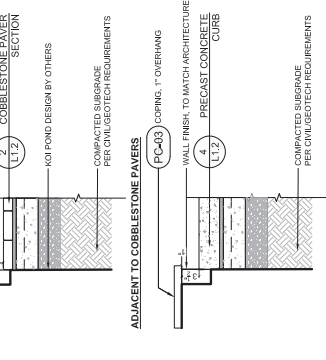
2 PEDESTRIAN PAVERS ON RECESSED SLAB
 1'10" x 1'0"

NOTE:
 1. REFER TO AREA DRAIN MANUFACTURERS INSTALLATION DETAILS FOR ADDITIONAL REQUIREMENTS
 2. SEE CIVIL PLANS FOR INVERT ELEVATIONS



3 ADJACENT TO RAISED CURB
 KOI POND WALL, FOR DESIGN INTENT ONLY
 30" x 1'0"

NOTE:
 1. REFER TO PAVEMENT MANUFACTURERS INSTALLATION DETAILS FOR ADDITIONAL SETTING BED AND BASE REQUIREMENTS



ADJACENT TO COBBLESTONE PAVERS

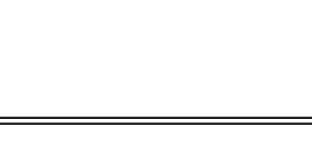
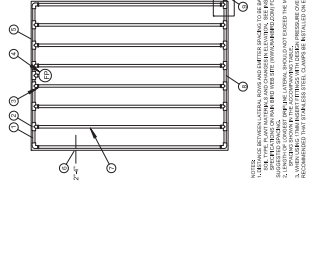
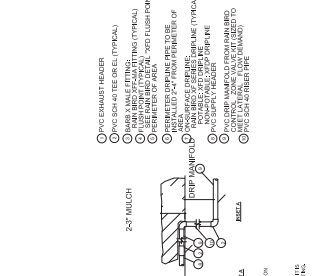
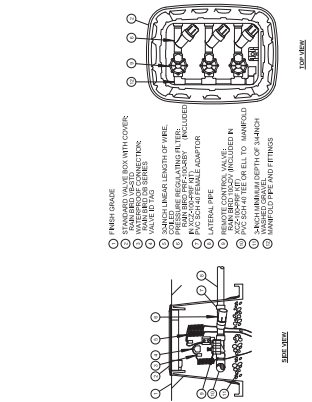
NOTE:
 1. REFER TO PAVEMENT MANUFACTURERS INSTALLATION DETAILS FOR ADDITIONAL SETTING BED AND BASE REQUIREMENTS



ADJACENT TO RAISED CURB

IRRIGATION NOTES

- THE OWNER AND CONTRACTOR SHALL VERIFY THE DIMENSIONS AND LOCATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION. REFERR TO THE OWNER OR OWNERS REPRESENTATIVE ANY DIFFERENCES BETWEEN THE PRESSURE CONNECTION, ACTUAL LAYOUT OF SPRINKLER HEADS, VALVES, AND/OR SIZES OF EXISTING UTILITIES AND THE INFORMATION PROVIDED ON SITE. MINOR FIELD CHANGES SHALL BE MADE AT THE LANDSCAPE TO OWNER.
- IF ANY SLEEVES ARE NECESSARY, ALL BRASS VALVES, CLARIFIED GRAPHIC CLARITY ONLY AND SHALL BE LOCATED INSIDE OF HARDWARE. PRESSURE LOSS CALCULATIONS ARE BASED ON THE PIPE SIZES SHOWN SHOULD BE ADDED.
- DO NOT WILLINGLY INSTALL THE SPRINKLER SYSTEMS SHOWN ON THE DESIGN. DIFFERENCES IN THE DIMENSIONS OF CONSTRUCTED DESIGN CHANGES SHALL BE ACCORDING TO THE SITE SIZES. IRRIGATION OBSTRUCTIONS OR DIFFERENCES SHOULD BE BROUGHT TO THE CONTRACTOR IMMEDIATELY. SHOULD THE IRRIGATION CONTRACTOR DESIGNER AND THE GENERAL CONTRACTOR, THE IRRIGATION CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR ANY AND ALL FAILURES. IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO FAMILIARIZE HIMSELF WITH THE SITE, ALL GRADE DIFFERENCES AND THE OWNER OR GENERAL CONTRACTOR AND OTHER SUBCONTRACTORS PAVEMENT AND THROUGH WALLS.
- DUO TO THE SCALE OF THE DRAWING IT IS NOT POSSIBLE TO INDICATE ALL IRRIGATION CONTRACTOR SHALL CAREFULLY INVESTIGATE THE EXISTING CONDITIONS AND VERIFY THE DIMENSIONS OF ALL UTILITIES. IRRIGATION CONTRACTOR SHALL VERIFY THE DIMENSIONS OF ALL UTILITIES. IRRIGATION CONTRACTOR SHALL VERIFY THE DIMENSIONS OF ALL UTILITIES. IRRIGATION CONTRACTOR SHALL VERIFY THE DIMENSIONS OF ALL UTILITIES.
- THIS SYSTEM SHALL BE INSTALLED USING ACCEPTED AND QUALITY INSTALLATION STANDARDS AS USE IN THE INDUSTRY. ALL MANHOLE SHALL BE MINIMUM OF 18" UNDER COVER. LATERAL PIPING A MINIMUM OF 12" UNDER COVER. ALL BACKFILL SURROUNDING THE BACKFILL SHALL BE ADDED IN 6" INCREMENTS AND MECHANICALLY TAMPED TO ELIMINATE SETTLEMENT.
- FOR PROPER IRRIGATION PERFORMANCE, ADJUST NOZZLE SPRAY ARC AND RADII FOR OPTIMUM PERFORMANCE TO PREVENT OVERWATERING OR UNDERWATERING. EACH VALVE FOR OPTIMUM OPERATING PRESSURE FOR EACH ZONE.
- WHEN VERTICAL OBSTRUCTIONS (POLES, TREES, TREES, HYDRANTS, ETC.) ARE ENCOUNTERED, THE CONTRACTOR SHALL RELOCATE THE PREVENT SPRINKLER SYSTEM BY INSTALLING A QUARTER, THIRD, OR HALF-CIRCLE COVERAGE. ALL ADJUSTMENTS SHALL BE MADE AT NO ADDITIONAL COST.
- INSTALL VALVE BOXES 18 INCHES FROM AND PERPENDICULAR TO WALKS, CURBS, BUILDINGS, OR LANDSCAPE FEATURES. MULTIPLE VALVE BOXES SHALL BE INSTALLED TO PREVENT DAMAGE TO THE VALVE BOXES. IRRIGATION CONTRACTOR SHALL UTILIZE VALVE IDENTIFICATION TAGS ON ALL REMOTE CONTROL VALVES.
- CONTROL VALVES SHALL BE PLACED IN VALVE BOXES AS SHOWN IN THE DETAILS AND ALL ELECTRICAL CONNECTIONS SHALL BE SEALED WITH WATERPROOFING. A 12" LOOP IS TO BE PROVIDED AT EACH VALVE FOR SERVICING.
- 12VOLT ELECTRICAL POWER AT THE CONTROLLER SHALL BE PROVIDED TO MAKE THE FINAL HOOKUP FROM THE POWER PROVIDED TO THE CONTROLLER. CONTROLLER WITH SENSOR WETTER, TAP, AND BACKFLOW AND LEGEND. EXACT LOCATION OF CONTROLLER IS TO BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY INSTALLATION OF THE PROJECT.
- THE IRRIGATION CONTRACTOR IS RESPONSIBLE FOR ALL CLEANUP.
- IRRIGATION CONTRACTOR SHALL PROVIDE THE OWNER AND LANDSCAPE ARCHITECT WITH A REPRODUCIBLE AS-BUILT DRAWING WITHIN 21 DAYS. SHALL ALSO PROVIDE THE OWNER 8/2 WRENCHES FOR DISASSEMBLING FOR EACH OF THE AUTOMATIC CONTROLLERS.
- THERE SHALL BE NO SUBSTITUTIONS OR CHANGES TO THE IRRIGATION CONTRACTOR CONSULTANT OR THE LANDSCAPE ARCHITECT.
- ALL SPRINKLERS, VALVES, AND VALVE BOXES SHALL BE PLACED 5' AWAY FROM ANY FENCES OR CURBS AS SHOWN IN DETAILS.
- BLOW OUT IN ADDITION, THE BLOW OUT SHALL PROVIDE THE SPRING TURNOVER. ALL WITH REPAIRMENT OR REPAIR OF ANY WARRANTY TERMS. THESE ITEMS SHALL BE INCLUDED IN BASE BID.
- SLEEVING BY GENERAL CONTRACTOR.
- PROPOSED IRRIGATION SHALL BE HAND WATERED BY CONTRACTOR UNTIL ESTABLISHED.
- IRRIGATION NOTES: ALL IRRIGATION ZONES ARE TO RUN DAILY SUPPLYING 1" OF WATER FOR 4 WEEKS. FOR GREATER EFFICIENCY, ALL PLANTS ARE ESTABLISHED. WATERING CAN BE DECREASED TO 3-4 DAYS ONCE PLANTS ARE ESTABLISHED. WATERING CAN BE STOPPED OUT TO EVERY 10-14 DAYS.



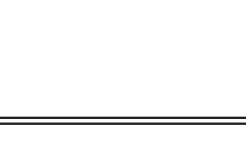
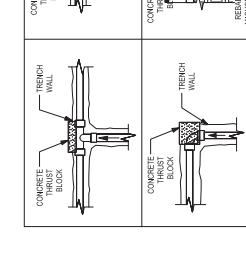
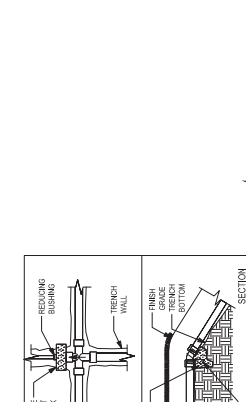
1 SCALE: NTS

2 SCALE: NTS

3 SCALE: NTS

4 SCALE: NTS

5 SCALE: NTS



6 SCALE: NTS

7 SCALE: NTS

8 SCALE: NTS

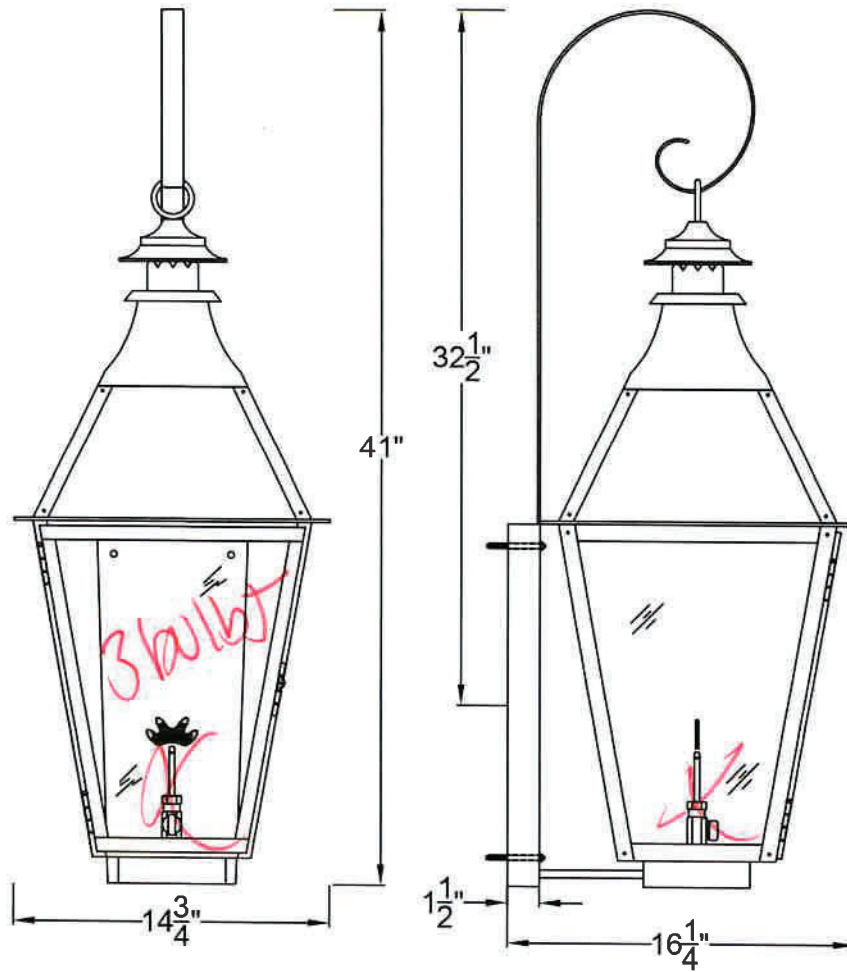
9 SCALE: NTS

10 SCALE: NTS

CHESAPEAKE LARGE COPPER WALL BRACKET

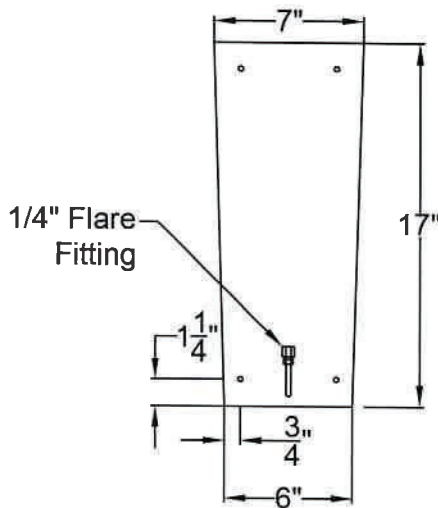
Available in Solid
or Glass Top

Fixture B
Qty 2



Front View

Side View



Backplate

Copper wall mount
3 bulb cluster
Medium Patina
Clear glass
glass top
top curv



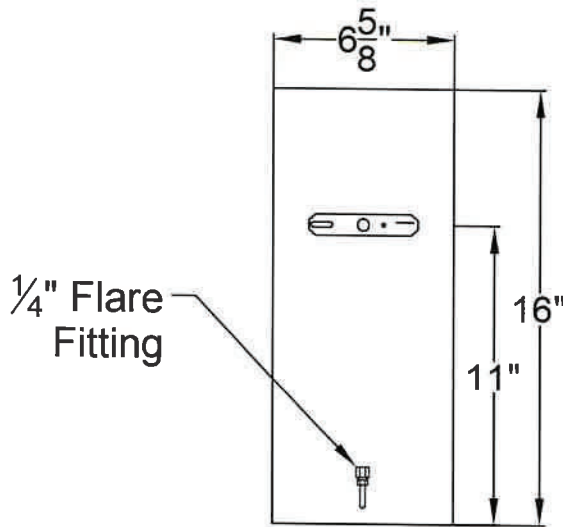
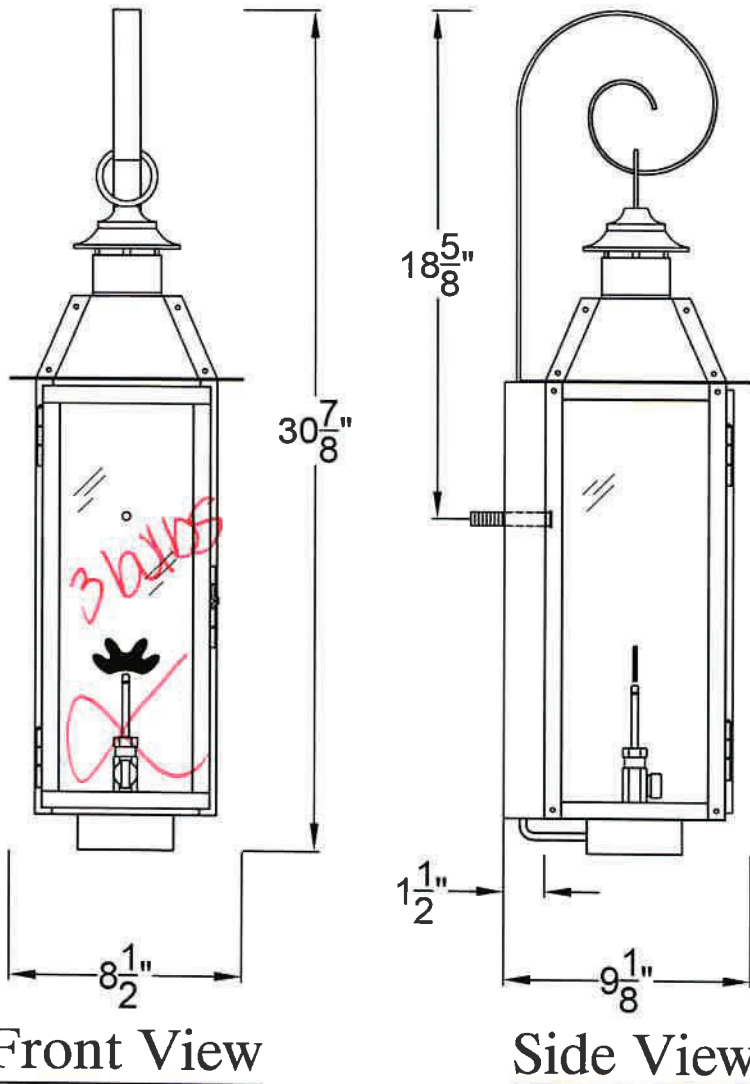
Lights are handcrafted.
Dimensions may vary by 1/4"

B.T.U. Rating
Natural Gas: 2730 B.T.U.
Propane: 2080 B.T.U.

SWEET WATER SMALL COPPER WALL BRACKET

Fixture C
Qty 4

Available w/ Solid
or Glass Top



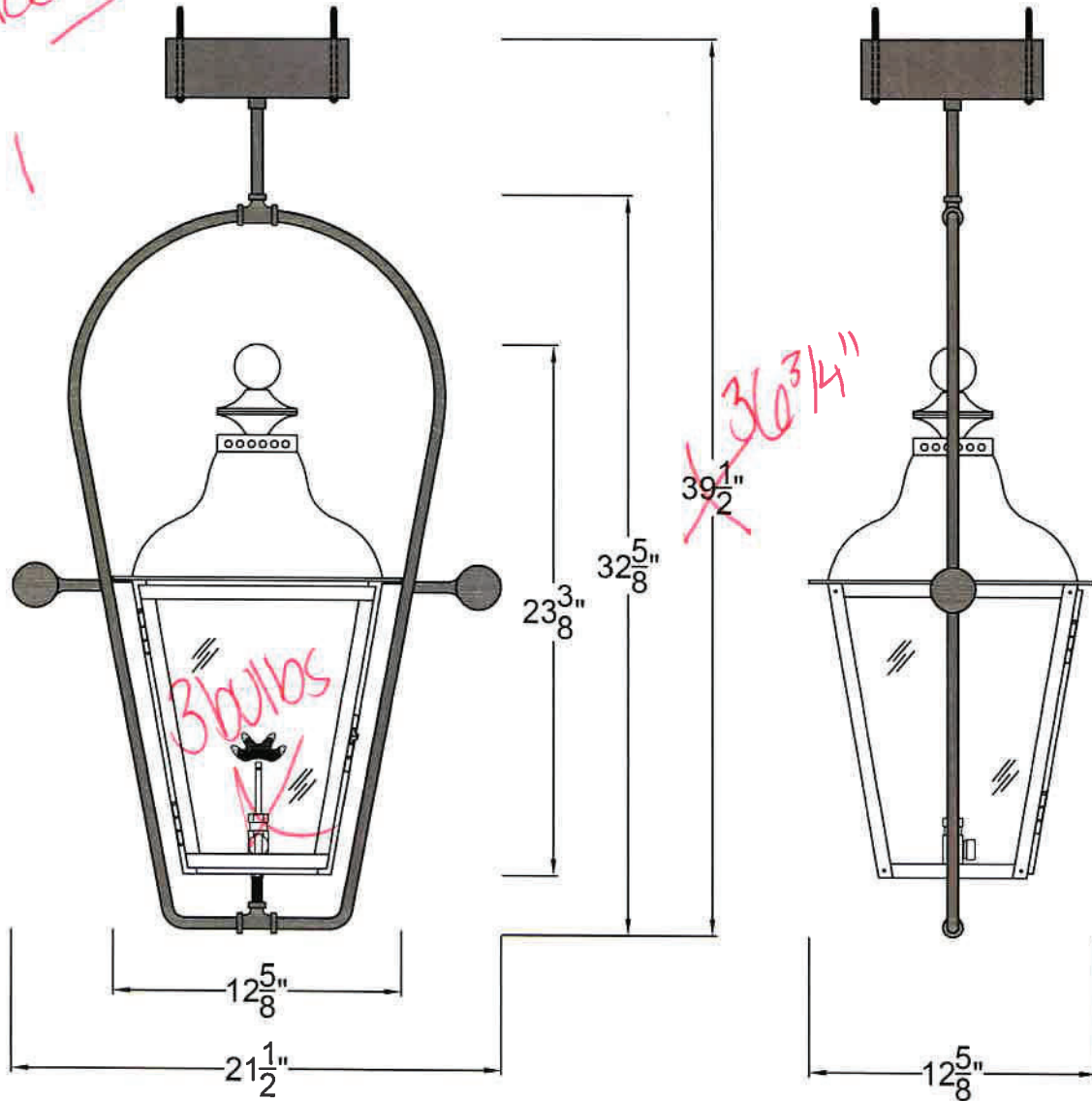
*Copper wall mount
3 bulb cluster
medium patina
clear glass
top w/ L*

Fixture D
Side Porch

BRUNSWICK MEDIUM CEILING MOUNT FULL YOKE

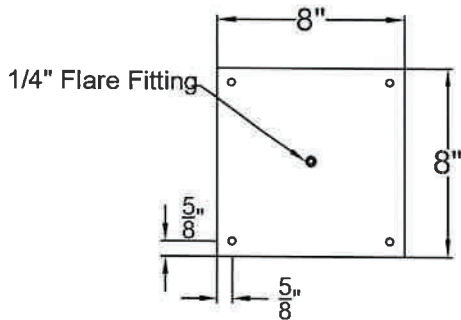
Shortest Height $36\frac{3}{4}$ "

Qty 1



Front View

Side View



Ceiling Mount

Full Yoke - short pipe
Qty - $36\frac{3}{4}$ "
3 bulb cluster
Medium Patina
clear glass
solid top



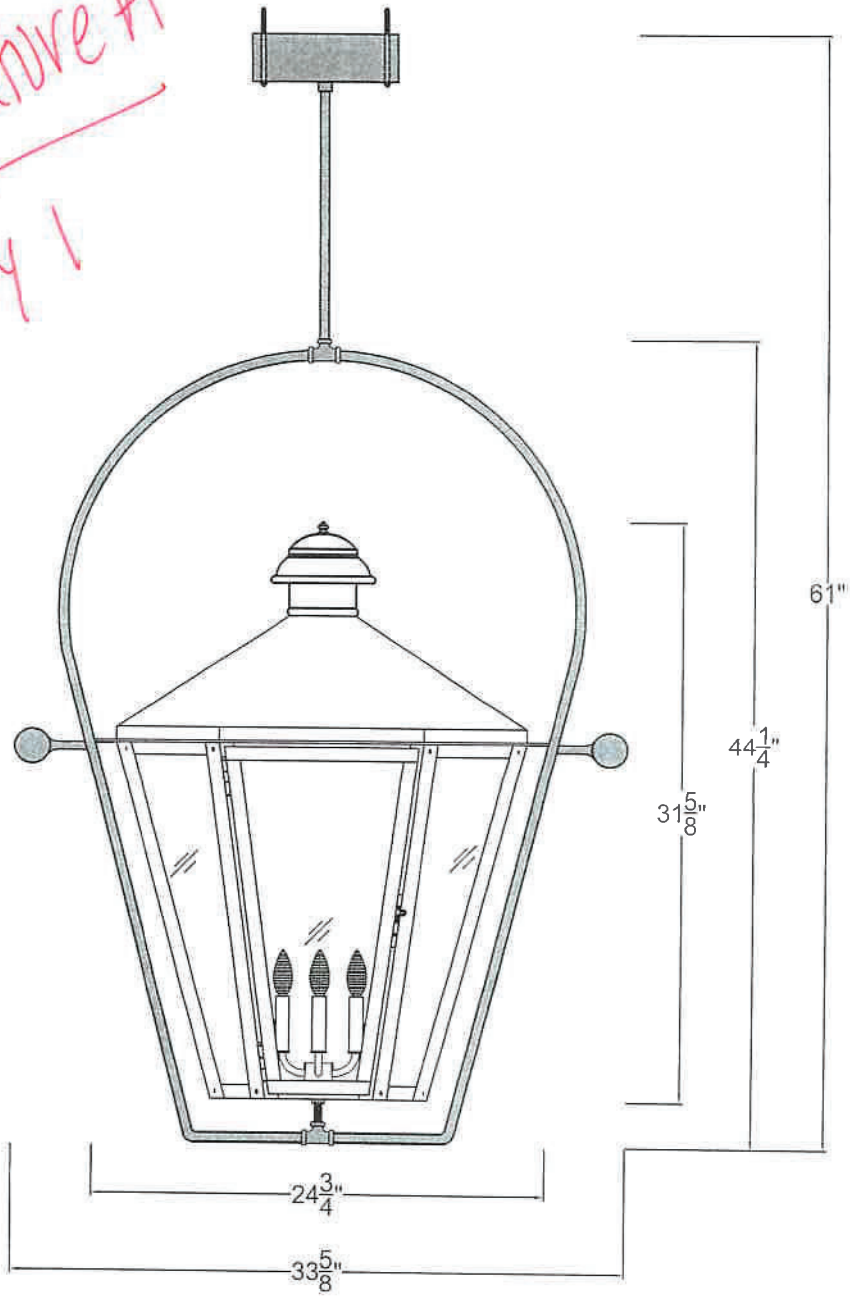
Lights are handcrafted.
Dimensions may vary by 1/4"

B.T.U. Rating
Natural Gas: 2730 B.T.U.
Propane: 2080 B.T.U.

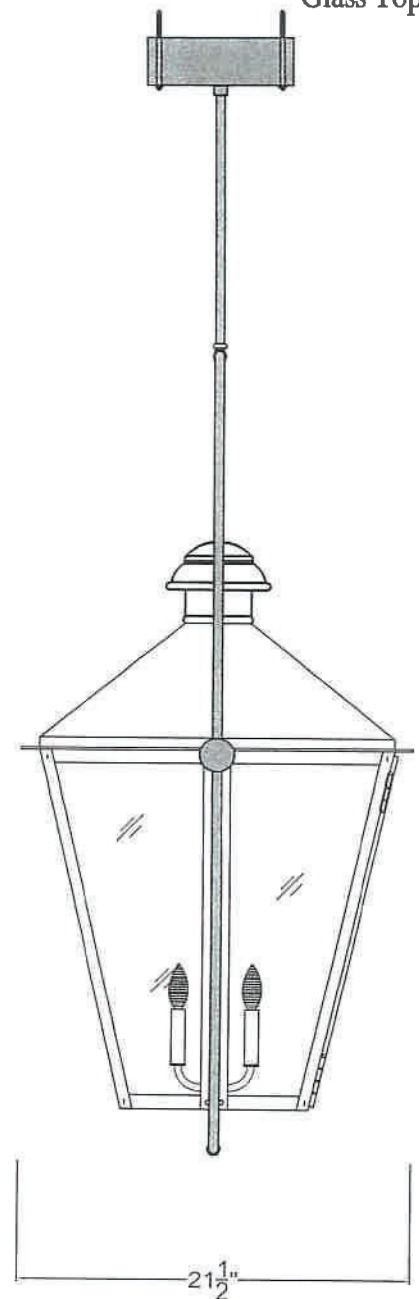
BILOXI LARGE CEILING MOUNT FULL YOKE

Shortest Height 48³/₈"
Available w/ Solid or
Glass Top

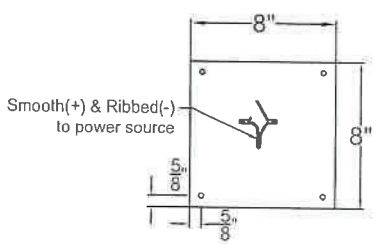
Fixture #
Qty 1



Front View



Side View



Ceiling Mount

Full Yoke - OAH - 61"
3 bulb cluster
Medium Patina
Clear glass

SCALE: N.T.S.	DRAFT: Y. McCullough
FILE: BILL	APP'D: J. Ragan
DATE: 2/12/05	

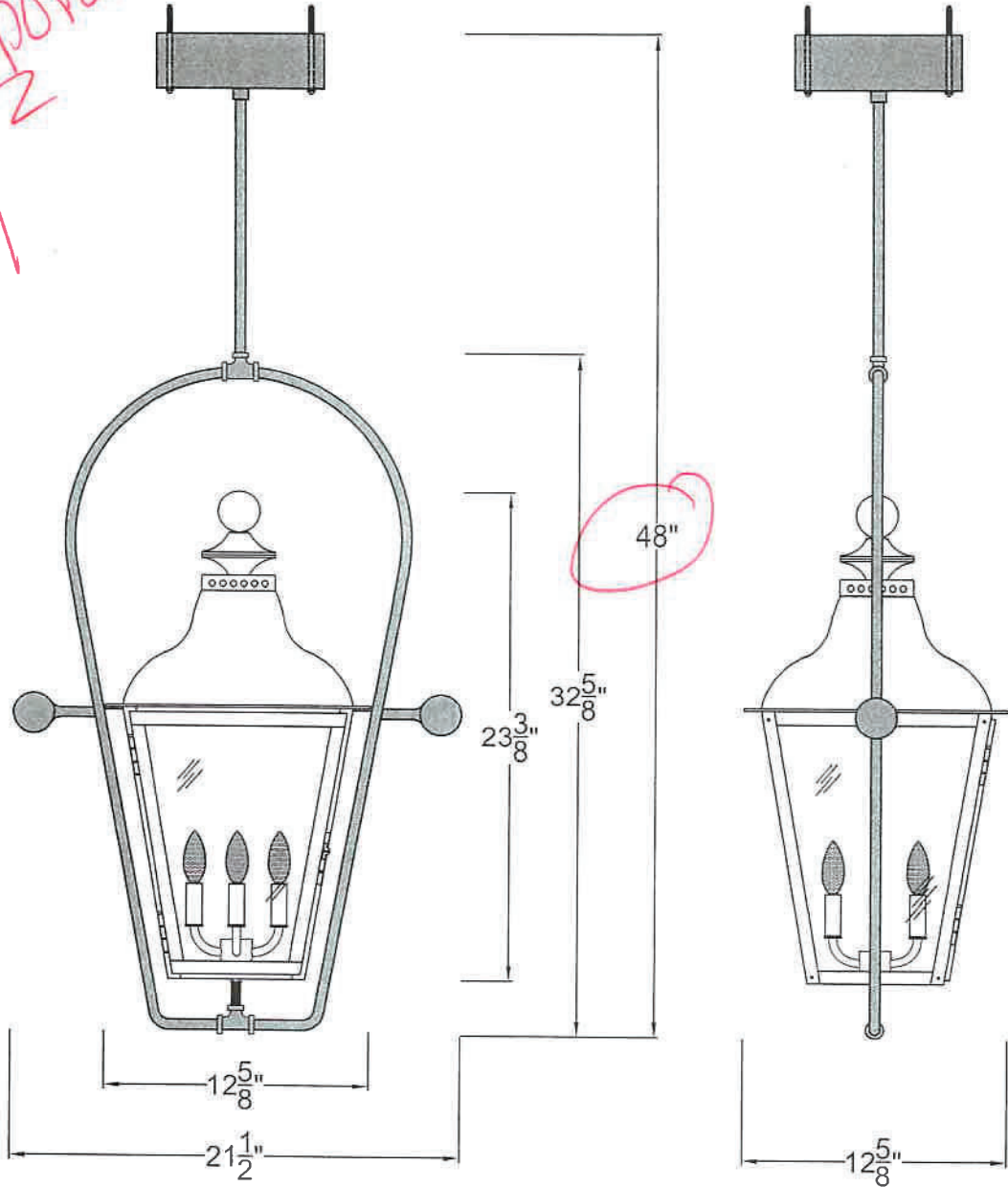
Lights are handcrafted.
Dimensions may vary by 1/4"

B.T.U. Rating
Natural Gas: 2730 B.T.U.
Propane: 2080 B.T.U.

BRUNSWICK MEDIUM CEILING MOUNT FULL YOKE

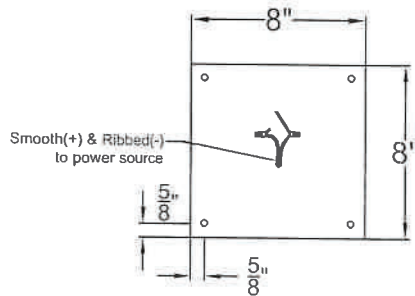
Shortest Height 36 ³/₄"

*Fixture D-back porch
2
Qty 1*



Front View

Side View



Ceiling Mount

*Full Yoke - DRAFT 48"
3 BULB CLUSTER
MEDIUM PATINA
CLEAR GLASS
SOLID TOP*

SCALE: N.T.S.	DRAFT: Y. McCullough
FILE: BRUM	APP'D: J. Ragan
DATE: 2/12/05	

Lights are handcrafted.
Dimensions may vary by 1/4"

B.T.U. Rating
Natural Gas: 2730 B.T.U.
Propane: 2080 B.T.U.

**ZUCKEO All-in-One Landscape Lighting Kit, 5W LED
Low Voltage Landscape Lights with Transformer and
80FT Wire, Waterproof Outdoor Spotlight with
Connectors for Yard Garden House, 3000K 12-24V**



60W Low Voltage Transformer With Timer And Light Sensor



DUSK TO DAWN LIGHT SENSOR

Turn on at dusk and turn off at dawn automatically



COUNTDOWN TIMER

Turn on at dusk and turn off 2/3/4/5/6/7/8/9/10 hours later

Aluminum Metal Structure

 **5W**
Super Bright With 500 Lumen

 **IP66 Waterproof**
All Weather

 **-4°F - 130°F**
Working Temperature

 **50,000**
Working Hours



IP66 Waterproof

Weatherproof low voltage transformer and landscape lights

The image shows a black rectangular weatherproof low voltage transformer mounted on a red brick wall. To the left, a landscape light is illuminated, casting a warm glow on a bush and grass. The scene is set at night with rain falling. At the bottom of the image, there are three circular icons: a rain cloud with water droplets, a sun with wavy lines representing heat, and a snowflake. Below each icon is the text 'Rain Resistant', 'Heat Resistant', and 'Frost Resistant' respectively.

Rain Resistant Heat Resistant Frost Resistant

Parking area pole lights or similar to.



D-Series Size 1 LED Area Luminaire



Catalog Number
Notes
Type

Hit the Tab key or mouse over the page to see all interactive elements.

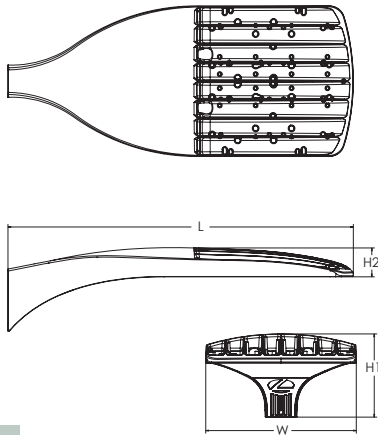
Introduction

The modern styling of the D-Series features a highly refined aesthetic that blends seamlessly with its environment. The D-Series offers the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. D-Series outstanding photometry aids in reducing the number of poles required in area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

Specifications

EPA:	0.69 ft ² (0.06 m ²)
Length:	32.71" (83.1 cm)
Width:	14.26" (36.2 cm)
Height H1:	7.88" (20.0 cm)
Height H2:	2.73" (6.9 cm)
Weight:	34 lbs (15.4 kg)



ds Design Select options indicated by this color background.



Items marked by a shaded background qualify for the Design Select program and ship in 15 days or less. To learn more about Design Select, visit www.acuitybrands.com/designselect.
*See ordering tree for details

Ordering Information

EXAMPLE: DSX1 LED P7 40K 70CRI T3M MVOLT SPA NLTAIR2 PIRHN DDBXD

Series	LEDs	Color temperature ²	Color Rendering Index ²	Distribution	Voltage	Mounting
DSX1 LED	Forward optics	(this section 70CRI only)		AFR Automotive front row	TSM Type V medium	Shipped included
	P1 P6	30K 3000K	70CRI	T1S Type I short	TSLG Type V low glare	SPA Square pole mounting (#8 drilling)
	P2 P7	40K 4000K	70CRI	T2M Type II medium	T5W Type V wide	RPA Round pole mounting (#8 drilling)
	P3 P8	50K 5000K	70CRI	T3M Type III medium	BLC3 Type III backlight control ³	SPA5 Square pole mounting #5 drilling ⁹
	P4 P9			T3LG Type III low glare ³	BLC4 Type IV backlight control ³	RPA5 Round pole mounting #5 drilling ⁹
	P5	27K 2700K	80CRI	T4M Type IV medium	LCCO Left corner cutoff ³	SPA8N Square narrow pole mounting #8 drilling
	Rotated optics	30K 3000K	80CRI	T4LG Type IV low glare ³	RCCO Right corner cutoff ³	WBA Wall bracket ¹⁰
	P10 ¹ P12 ¹	35K 3500K	80CRI	TFTM Forward throw medium		MA Mast arm adapter (mounts on 2 3/8" OD horizontal tenon)
	P11 ¹ P13 ¹	40K 4000K	80CRI			
		50K 5000K	80CRI			

Control options	Other options	Finish (required)
Shipped installed	Shipped installed	DDBXD Dark Bronze
NLTAIR2 PIRHN nLight AIR gen 2 enabled with bi-level motion / ambient sensor, 8-40' mounting height, ambient sensor enabled at 2fc. ^{11, 12, 20, 21}	SPD20KV 20KV surge protection	DBLXD Black
PIR High/low, motion/ambient sensor, 8-40' mounting height, ambient sensor enabled at 2fc. ^{13, 20, 21}	HS Houseside shield (black finish standard) ²²	DNAXD Natural Aluminum
PER NEMA twist-lock receptacle only (controls ordered separately) ¹⁴	L90 Left rotated optics ¹	DWHXD White
PER5 Five-pin receptacle only (controls ordered separate) ^{14, 21}	R90 Right rotated optics ¹	DDBTXD Textured dark bronze
PER7 Seven-pin receptacle only (controls ordered separate) ^{14, 21}	CCE Coastal Construction ²³	DBLBXD Textured black
FAO Field adjustable output ^{15, 21}	HA 50°C ambient operation ²⁴	DNATXD Textured natural aluminum
BL30 Bi-level switched dimming, 30% ^{16, 21}	BAA Buy America(n) Act and/or Build America Buy America Qualified	DWHGXD Textured white
BL50 Bi-level switched dimming, 50% ^{16, 21}	SF Single fuse (120, 277, 347V) ²⁵	
DMG 0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately) ¹⁷	DF Double fuse (208, 240, 480V) ²⁶	
DS Dual switching ^{18, 19, 21}	Shipped separately	
	EGSR External Glare Shield (reversible, field install required, matches housing finish)	
	BSDB Bird Spikes (field install required)	



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DSX1-LED
Rev. 04/29/25
Page 1 of 10

Ordering Information

Accessories

Ordered and shipped separately.

DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) ²⁵
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) ²⁵
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) ²⁵
DSHORT SBK	Shorting cap ²⁵
DSX1HS P#	House-side shield (enter package number 1-13 in place of #)
DSXRPA (FINISH)	Round pole adapter (#8 drilling, specify finish)
DSXSPA5 (FINISH)	Square pole adapter #5 drilling (specify finish)
DSXRPA5 (FINISH)	Round pole adapter #5 drilling (specify finish)
DSX1EGSR (FINISH)	External glare shield (specify finish)
DSX1BSDB (FINISH)	Bird spike deterrent bracket (specify finish)

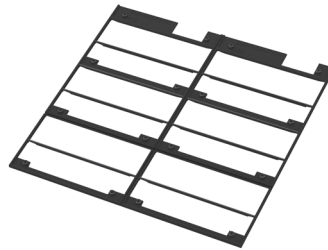
NOTES

- Rotated optics available with packages P10, P11, P12 and P13. Must be combined with option L90 or R90.
- 30K, 40K, and 50K available in 70CRI and 80CRI. 27K and 35K only available with 80CRI. Contact Technical Support for other possible combinations.
- T3LG, T4LG, BLC3, BLC4, LCCO, RCCO not available with option HS.
- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- HVOLT driver operates on any line voltage from 347-480V (50/60 Hz).
- HVOLT not available with package P1 and P10 when combined with option NLTAIR2 PIRHN or option PIR.
- XVOLT operates with any voltage between 277V and 480V (50/60 Hz).
- XVOLT not available in packages P1 or P10. XVOLT not available with fusing (SF or DF).
- SPA5 and RPA5 for use with #5 drilling only (Not for use with #8 drilling).
- WBA cannot be combined with Type 5 distributions plus photocell (PER).
- NLTAIR2 and PIRHN must be ordered together. For more information on nLight AIR2 visit this [link](#).
- NLTAIR2 PIRHN not available with other controls including PIR, PER, PER5, PER7, FAO, BL30, BL50, DMG and DS. NLTAIR2 PIRHN not available with P1 and P10 using HVOLT. NLTAIR2 PIRHN not available with P1 and P10 using XVOLT.
- PIR not available with NLTAIR2 PIRHN, PER, PER5, PER7, FAO BL30, BL50, DMG and DS. PIR not available with P1 and P10 using HVOLT. PIR not available with P1 and P10 using XVOLT.
- PER/PER5/PER7 not available with NLTAIR2 PIRHN, PIR, BL30, BL50, FAO, DMG and DS. Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Shorting Cap included.
- FAO not available with other dimming control options NLTAIR2 PIRHN, PIR, PER, PER5, PER7, BL30, BL50, DMG and DS.
- BL30 and BL50 are not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, FAO, DMG and DS. BL30 or BL50 must specify 120 or 277V.
- DMG not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, BL30, BL50, FAO and DS.
- DS not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, BL30, BL50, FAO and DMG.
- DS requires (2) separately switched circuits. DS provides 50/50 fixture operation via (2) different sets of leads using (2) drivers. DS only available with packages P8, P9, P10, P11, P12 and P13.
- Reference Motion Sensor Default Settings table on page 4 to see functionality.
- Reference Controls Options table on page 4.
- HS not available with T3LG, T4LG, BLC3, BLC4, LCCO and RCCO distribution. Also available as a separate accessory; see Accessories information.
- CCE option not available with option BS and EGSR. Contact Technical Support for availability.
- Option HA not available with performance packages P4, P5, P7, P8, P9 and P13.
- Requires luminaire to be specified with PER, PER5 or PER7 option. See Controls Table on page 4.
- Single fuse (SF) requires 120V, 277V, or 347V. Double fuse (DF) requires 208V, 240V or 480V. XVOLT not available with fusing (SF or DF).

Shield Accessories



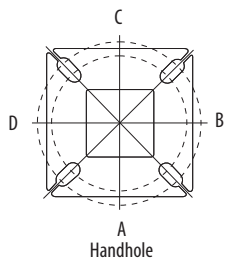
External Glare Shield (EGSR)



House Side Shield (HS)

Drilling

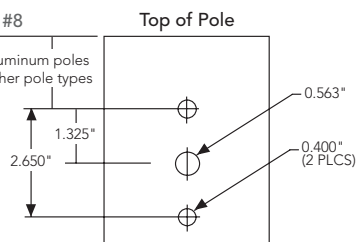
HANDHOLE ORIENTATION



Handhole

Template #8

1.75" for aluminum poles
2.75" for other pole types



Tenon Mounting Slipfitter

Tenon O.D.	Mounting	Single Unit	2 @ 180	2 @ 90	3 @ 90	3 @ 120	4 @ 90
2-3/8"	RPA	AS3-5 190	AS3-5 280	AS3-5 290	AS3-5 390	AS3-5 320	AS3-5 490
2-7/8"	RPA	AST25-190	AST25-280	AST25-290	AST25-390	AST25-320	AST25-490
4"	RPA	AST35-190	AST35-280	AST35-290	AST35-390	AST35-320	AST35-490

Mounting Option	Drilling Template	Single	2 @ 180	2 @ 90	3 @ 90	3 @ 120	4 @ 90
Head Location		Side B	Side B & D	Side B & C	Side B, C & D	Round Pole Only	Side A, B, C & D
Drill Nomenclature	#8	DM19AS	DM28AS	DM29AS	DM39AS	DM32AS	DM49AS
Minimum Acceptable Outside Pole Dimension							
SPA	#8	3.5"	3.5"	3.5"	3.5"		3.5"
RPA	#8	3"	3"	3"	3"	3"	3"
SPA5	#5	3"	3"	3"	3"		3"
RPA5	#5	3"	3"	3"	3"	3"	3"
SPA8N	#8	3"	3"	3"	3"		3"

DSX1 Area Luminaire - EPA

*Includes luminaire and integral mounting arm. Other tenons, arms, brackets or other accessories are not included in this EPA data.

Fixture Quantity & Mounting Configuration	Single DM19	2 @ 180 DM28	2 @ 90 DM29	3 @ 90 DM39	3 @ 120 DM32	4 @ 90 DM49
Mounting Type						
DSX1 with SPA	0.69	1.38	1.23	1.54	---	1.58
DSX1 with SPA5, SPA8N	0.70	1.40	1.30	1.66	---	1.68
DSX1 with RPA, RPA5	0.70	1.40	1.30	1.66	1.60	1.68
DSX1 with MA	0.83	1.66	1.50	2.09	2.09	2.09



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DSX1-LED
Rev. 04/29/25
Page 2 of 10

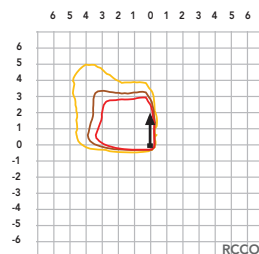
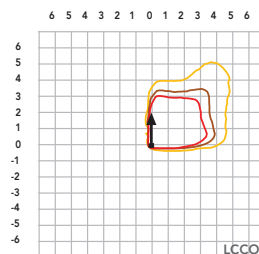
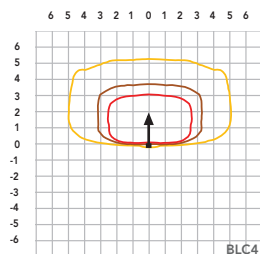
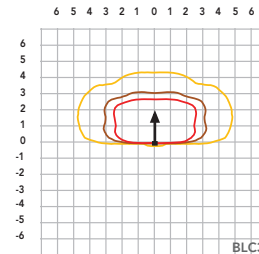
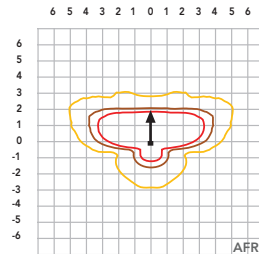
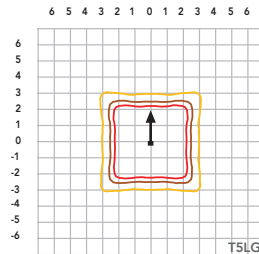
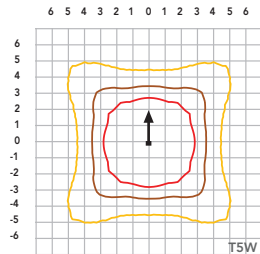
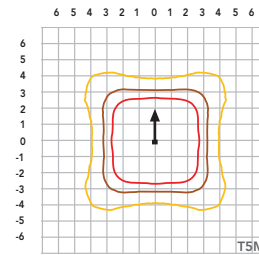
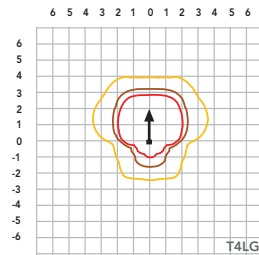
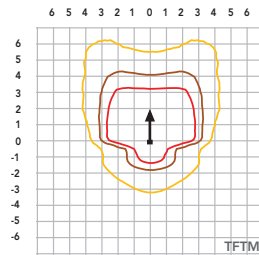
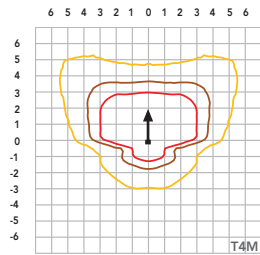
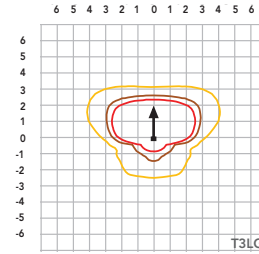
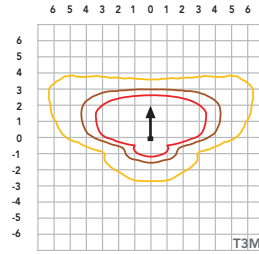
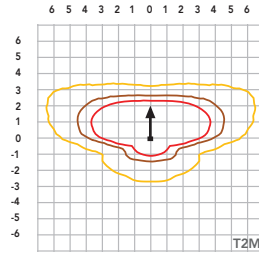
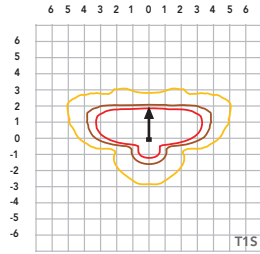
Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [homepage](#).

Isofootcandle plots for the DSX1 LED P9 40K 70CRI. Distances are in units of mounting height (25').

LEGEND

- 0.1 fc
- 0.5 fc
- 1.0 fc



Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.04
5°C	41°F	1.04
10°C	50°F	1.03
15°C	59°F	1.02
20°C	68°F	1.01
25°C	77°C	1.00
30°C	86°F	0.99
35°C	95°F	0.98
40°C	104°F	0.97

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	Lumen Maintenance Factor
0	1.00
25,000	0.95
50,000	0.90
100,000	0.81

FAO Dimming Settings

FAO Position	% Wattage	% Lumen Output
8	100%	100%
7	93%	95%
6	80%	85%
5	66%	73%
4	54%	61%
3	41%	49%
2	29%	36%
1	15%	20%

*Note: Calculated values are based on original performance package data. When calculating new values for given FAO position, use maximum published values by package listed on specification sheet (input watts and lumens by optic type).

Electrical Load

	Performance Package	LED Count	Drive Current (mA)	Wattage	Current (A)					
					120V	208V	240V	277V	347V	480V
Forward Optics (Non-Rotated)	P1	30	530	51	0.42	0.24	0.21	0.18	0.15	0.11
	P2	30	700	68	0.56	0.33	0.28	0.24	0.20	0.14
	P3	30	1050	104	0.85	0.49	0.43	0.37	0.29	0.21
	P4	30	1250	125	1.03	0.60	0.52	0.45	0.36	0.26
	P5	30	1400	142	1.15	0.66	0.58	0.50	0.40	0.29
	P6	40	1250	167	1.38	0.79	0.69	0.60	0.48	0.34
	P7	40	1400	188	1.54	0.89	0.77	0.67	0.53	0.38
	P8	60	1100	216	1.80	1.04	0.90	0.78	0.62	0.45
	P9	60	1400	279	2.31	1.33	1.15	1.00	0.80	0.58
Rotated Optics (Requires L90 or R90)	P10	60	530	101	0.84	0.49	0.42	0.37	0.29	0.21
	P11	60	700	135	1.12	0.65	0.56	0.49	0.39	0.28
	P12	60	1050	206	1.72	0.99	0.86	0.74	0.59	0.43
	P13	60	1400	279	2.30	1.33	1.15	1.00	0.79	0.57

LED Color Temperature / Color Rendering Multipliers

	70 CRI		80CRI		90CRI	
	Lumen Multiplier	Availability	Lumen Multiplier	Availability	Lumen Multiplier	Availability
5000K	102%	Standard	92%	Extended lead-time	71%	(see note)
4000K	100%	Standard	92%	Extended lead-time	67%	(see note)
3500K	100%	(see note)	90%	Extended lead-time	63%	(see note)
3000K	96%	Standard	87%	Extended lead-time	61%	(see note)
2700K	94%	(see note)	85%	Extended lead-time	57%	(see note)

Note: Some LED types are available as per special request. Contact Technical Support for more information.

Motion Sensor Default Settings

Option	Unoccupied Dimmed Level	High Level (when occupied)	Photocell Operation	Dwell Time	Ramp-up Time	Dimming Fade Rate
PIR	30%	100%	Enabled @ 2FC	7.5 min	3 sec	5 min
NLTAIR2 PIRHN	30%	100%	Enabled @ 2FC	7.5 min	3 sec	5 min

Controls Options

Nomenclature	Description	Functionality	Primary control device	Notes
FAO	Field adjustable output device installed inside the luminaire; wired to the driver dimming leads.	Allows the luminaire to be manually dimmed, effectively trimming the light output.	FAO device	Cannot be used with other controls options that need the 0-10V leads
DS (not available on DSX0)	Drivers wired independently for 50/50 luminaire operation	The luminaire is wired to two separate circuits, allowing for 50/50 operation.	Independently wired drivers	Requires two separately switched circuits. Consider nLight AIR as a more cost effective alternative.
PERS or PER7	Twist-lock photocell receptacle	Compatible with standard twist-lock photocells for dusk to dawn operation, or advanced control nodes that provide 0-10V dimming signals.	Twist-lock photocells such as DLL Elite or advanced control nodes such as ROAM.	Pins 4 & 5 to dimming leads on driver, Pins 6 & 7 are capped inside luminaire. Cannot be used with other controls options that need the 0-10V leads.
PIR	Motion sensor with integral photocell. Sensor suitable for 8' to 40' mounting height.	Luminaires dim when no occupancy is detected.	Acuity Controls rSBG	Cannot be used with other controls options that need the 0-10V leads.
NLTAIR2 PIRHN	nLight AIR enabled luminaire for motion sensing, photocell and wireless communication.	Motion and ambient light sensing with group response. Scheduled dimming with motion sensor over-ride when wirelessly connected to the nLight Eclipse.	nLight Air rSBG	nLight AIR sensors can be programmed and commissioned from the ground using the CIAIRity Pro app. Cannot be used with other controls options that need the 0-10V leads.
BL30 or BL50	Integrated bi-level device that allows a second control circuit to switch all light engines to either 30% or 50% light output	BLC device provides input to 0-10V dimming leads on all drivers providing either 100% or dimmed (30% or 50%) control by a secondary circuit	BLC UVOLT1	BLC device is powered off the 0-10V dimming leads, thus can be used with any input voltage from 120 to 480V

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of configurations shown within the tolerances described within LM-79. Contact factory for performance data on any configurations not shown here.

Forward Optics																			
Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K					40K					50K				
					(3000K, 70 CRI)					(4000K, 70 CRI)					(5000K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P1	51W	30	530	T1S	7,776	1	0	2	153	8,104	1	0	2	159	8,262	1	0	2	162
				T2M	7,203	1	0	3	142	7,507	2	0	3	147	7,653	2	0	3	150
				T3M	7,287	1	0	3	143	7,594	1	0	3	149	7,742	1	0	3	152
				T3LG	6,509	1	0	1	128	6,783	1	0	1	133	6,916	1	0	1	136
				T4M	7,395	1	0	3	145	7,707	1	0	3	151	7,857	1	0	3	154
				T4LG	6,726	1	0	1	132	7,010	1	0	1	138	7,146	1	0	1	140
				TFTM	7,446	1	0	3	146	7,760	1	0	3	152	7,912	1	0	3	155
				T5M	7,609	3	0	2	149	7,930	3	0	2	156	8,084	3	0	2	159
				T5W	7,732	3	0	2	152	8,058	4	0	2	158	8,215	4	0	2	161
				T5LG	7,631	3	0	1	150	7,953	3	0	1	156	8,108	3	0	1	159
				BLC3	5,300	0	0	2	104	5,524	0	0	2	109	5,631	0	0	2	111
				BLC4	5,474	0	0	3	108	5,705	0	0	3	112	5,816	0	0	3	114
				RCCO	5,348	0	0	2	105	5,573	0	0	2	109	5,682	0	0	2	112
				LCCO	5,348	0	0	2	105	5,573	0	0	2	109	5,682	0	0	2	112
				AFR	7,776	1	0	2	153	8,104	1	0	2	159	8,262	1	0	2	162
				P2	68W	30	700	T1S	9,997	1	0	2	147	10,418	1	0	2	154	10,621
T2M	9,260	2	0					3	137	9,651	2	0	3	142	9,839	2	0	3	145
T3M	9,368	2	0					3	138	9,763	2	0	3	144	9,953	2	0	3	147
T3LG	8,368	1	0					2	123	8,721	1	0	2	129	8,891	1	0	2	131
T4M	9,507	2	0					3	140	9,909	2	0	3	146	10,102	2	0	3	149
T4LG	8,647	1	0					2	128	9,012	1	0	2	133	9,187	1	0	2	136
TFTM	9,573	2	0					3	141	9,977	2	0	3	147	10,172	2	0	3	150
T5M	9,782	4	0					2	144	10,195	4	0	2	150	10,393	4	0	2	153
T5W	9,940	4	0					2	147	10,360	4	0	2	153	10,562	4	0	2	156
T5LG	9,810	3	0					1	145	10,224	3	0	1	151	10,423	3	0	1	154
BLC3	6,814	0	0					2	101	7,101	0	0	2	105	7,240	0	0	2	107
BLC4	7,038	0	0					3	104	7,334	0	0	3	108	7,477	0	0	3	110
RCCO	6,875	1	0					2	101	7,165	1	0	2	106	7,305	1	0	2	108
LCCO	6,875	1	0					2	101	7,165	1	0	2	106	7,305	1	0	2	108
AFR	9,997	1	0					2	147	10,418	1	0	2	154	10,621	1	0	2	157
P3	102W	30	1050					T1S	14,093	2	0	2	138	14,687	2	0	2	144	14,973
				T2M	13,055	2	0	3	128	13,605	2	0	3	133	13,871	2	0	3	136
				T3M	13,206	2	0	4	129	13,763	2	0	4	135	14,031	2	0	4	137
				T3LG	11,797	2	0	2	115	12,294	2	0	2	120	12,534	2	0	2	123
				T4M	13,403	2	0	4	131	13,968	2	0	4	137	14,241	2	0	4	139
				T4LG	12,190	2	0	2	119	12,704	2	0	2	124	12,952	2	0	2	127
				TFTM	13,496	2	0	4	132	14,065	2	0	4	138	14,339	2	0	4	140
				T5M	13,790	4	0	2	135	14,371	4	0	2	141	14,652	4	0	2	143
				T5W	14,013	4	0	3	137	14,605	4	0	3	143	14,889	4	0	3	146
				T5LG	13,830	3	0	2	135	14,413	3	0	2	141	14,694	3	0	2	144
				BLC3	9,606	0	0	2	94	10,011	0	0	2	98	10,206	0	0	2	100
				BLC4	9,921	0	0	3	97	10,340	0	0	3	101	10,541	0	0	3	103
				RCCO	9,692	1	0	2	95	10,101	1	0	2	99	10,298	1	0	2	101
				LCCO	9,692	1	0	2	95	10,101	1	0	2	99	10,298	1	0	2	101
				AFR	14,093	2	0	2	138	14,687	2	0	2	144	14,973	2	0	2	147



Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of configurations shown within the tolerances described within LM-79. Contact factory for performance data on any configurations not shown here.

Forward Optics

Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K					40K					50K								
					(3000K, 70 CRI)					(4000K, 70 CRI)					(5000K, 70 CRI)								
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW				
P4	124W	30	1250	T1S	16,416	2	0	3	132	17,109	2	0	3	138	17,442	2	0	3	141				
				T2M	15,207	3	0	4	123	15,849	3	0	4	128	16,158	3	0	4	130				
				T3M	15,383	2	0	4	124	16,032	2	0	4	129	16,345	2	0	4	132				
				T3LG	13,742	2	0	2	111	14,321	2	0	2	116	14,600	2	0	2	118				
				T4M	15,613	2	0	4	126	16,272	2	0	4	131	16,589	2	0	4	134				
				T4LG	14,200	2	0	2	115	14,799	2	0	2	119	15,087	2	0	2	122				
				TFTM	15,721	2	0	4	127	16,384	2	0	4	132	16,703	2	0	4	135				
				T5M	16,063	4	0	2	130	16,741	4	0	2	135	17,067	4	0	2	138				
				T5W	16,324	5	0	3	132	17,013	5	0	3	137	17,344	5	0	3	140				
				T5LG	16,110	3	0	2	130	16,790	4	0	2	135	17,117	4	0	2	138				
				BLC3	11,190	0	0	3	90	11,662	0	0	3	94	11,889	0	0	3	96				
				BLC4	11,557	0	0	3	93	12,044	0	0	3	97	12,279	0	0	4	99				
				RCCO	11,291	1	0	3	91	11,767	1	0	3	95	11,996	1	0	3	97				
				LCCO	11,291	1	0	3	91	11,767	1	0	3	95	11,996	1	0	3	97				
				AFR	16,416	2	0	3	132	17,109	2	0	3	138	17,442	2	0	3	141				
				P5	138W	30	1400	T1S	18,052	2	0	3	131	18,814	2	0	3	136	19,180	2	0	3	139
								T2M	16,723	3	0	4	121	17,428	3	0	4	126	17,768	3	0	4	129
T3M	16,917	3	0					4	122	17,630	3	0	4	128	17,974	3	0	4	130				
T3LG	15,111	2	0					2	109	15,749	2	0	2	114	16,055	2	0	2	116				
T4M	17,169	3	0					5	124	17,893	3	0	5	130	18,242	3	0	5	132				
T4LG	15,615	2	0					2	113	16,274	2	0	2	118	16,591	2	0	2	120				
TFTM	17,288	2	0					4	125	18,017	2	0	5	130	18,368	3	0	5	133				
T5M	17,664	5	0					3	128	18,410	5	0	3	133	18,768	5	0	3	136				
T5W	17,951	5	0					3	130	18,708	5	0	3	135	19,073	5	0	3	138				
T5LG	17,716	4	0					2	128	18,463	4	0	2	134	18,823	4	0	2	136				
BLC3	12,305	0	0					3	89	12,824	0	0	3	93	13,074	0	0	3	95				
BLC4	12,709	0	0					4	92	13,245	0	0	4	96	13,503	0	0	4	98				
RCCO	12,416	1	0					3	90	12,940	1	0	3	94	13,192	1	0	3	95				
LCCO	12,416	1	0					3	90	12,940	1	0	3	94	13,192	1	0	3	95				
AFR	18,052	2	0					3	131	18,814	2	0	3	136	19,180	2	0	3	139				
P6	165W	40	1250					T1S	21,031	2	0	3	127	21,918	2	0	3	133	22,345	2	0	3	135
								T2M	19,482	3	0	4	118	20,303	3	0	4	123	20,699	3	0	4	125
				T3M	19,708	3	0	5	119	20,539	3	0	5	124	20,939	3	0	5	127				
				T3LG	17,604	2	0	2	107	18,347	2	0	2	111	18,704	2	0	2	113				
				T4M	20,001	3	0	5	121	20,845	3	0	5	126	21,251	3	0	5	129				
				T4LG	18,191	2	0	2	110	18,959	2	0	2	115	19,328	2	0	2	117				
				TFTM	20,140	3	0	5	122	20,989	3	0	5	127	21,398	3	0	5	129				
				T5M	20,579	5	0	3	125	21,447	5	0	3	130	21,865	5	0	3	132				
				T5W	20,912	5	0	3	127	21,795	5	0	3	132	22,219	5	0	3	134				
				T5LG	20,638	4	0	2	125	21,509	4	0	2	130	21,928	4	0	2	133				
				BLC3	14,335	0	0	3	87	14,940	0	0	3	90	15,231	0	0	3	92				
				BLC4	14,805	0	0	4	90	15,430	0	0	4	93	15,731	0	0	4	95				
				RCCO	14,464	1	0	3	88	15,074	1	0	3	91	15,368	1	0	3	93				
				LCCO	14,464	1	0	3	88	15,074	1	0	3	91	15,368	1	0	3	93				
				AFR	21,031	2	0	3	127	21,918	2	0	3	133	22,345	2	0	3	135				

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of configurations shown within the tolerances described within LM-79. Contact factory for performance data on any configurations not shown here.

Forward Optics																			
Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K					40K					50K				
					(3000K, 70 CRI)					(4000K, 70 CRI)					(5000K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P7	184W	40	1400	T1S	22,741	2	0	3	123	23,700	2	0	3	129	24,162	3	0	3	131
				T2M	21,066	3	0	4	114	21,955	3	0	4	119	22,383	3	0	4	121
				T3M	21,311	3	0	5	116	22,210	3	0	5	120	22,642	3	0	5	123
				T3LG	19,036	2	0	2	103	19,839	2	0	3	108	20,226	2	0	3	110
				T4M	21,628	3	0	5	117	22,541	3	0	5	122	22,980	3	0	5	125
				T4LG	19,671	2	0	2	107	20,501	2	0	3	111	20,900	2	0	3	113
				TFTM	21,778	3	0	5	118	22,697	3	0	5	123	23,139	3	0	5	125
				T5M	22,252	5	0	3	121	23,191	5	0	3	126	23,643	5	0	3	128
				T5W	22,613	5	0	3	123	23,567	5	0	4	128	24,027	5	0	4	130
				T5LG	22,317	4	0	2	121	23,258	4	0	2	126	23,712	4	0	2	129
				BLC3	15,501	0	0	3	84	16,155	0	0	4	88	16,470	0	0	4	89
				BLC4	16,010	0	0	4	87	16,685	0	0	4	90	17,010	0	0	4	92
				RCCO	15,641	1	0	3	85	16,301	1	0	3	89	16,619	1	0	3	90
				LCCO	15,641	1	0	3	85	16,301	1	0	3	89	16,619	1	0	3	90
				AFR	22,741	2	0	3	123	23,700	2	0	3	129	24,162	3	0	3	131
				P8	216W	60	1100	T1S	28,701	3	0	3	133	29,912	3	0	4	139	30,495
T2M	26,587	3	0					5	123	27,709	3	0	5	128	28,249	3	0	5	131
T3M	26,895	3	0					5	125	28,030	3	0	5	130	28,576	3	0	5	132
T3LG	24,025	3	0					3	111	25,038	3	0	3	116	25,526	3	0	3	118
T4M	27,296	3	0					5	127	28,448	3	0	5	132	29,002	3	0	5	134
T4LG	24,826	3	0					3	115	25,873	3	0	3	120	26,378	3	0	3	122
TFTM	27,485	3	0					5	127	28,645	3	0	5	133	29,203	3	0	5	135
T5M	28,084	5	0					4	130	29,269	5	0	4	136	29,839	5	0	4	138
T5W	28,539	5	0					4	132	29,743	5	0	4	138	30,323	5	0	4	141
T5LG	28,165	4	0					2	131	29,354	4	0	2	136	29,926	4	0	2	139
BLC3	19,563	0	0					4	91	20,388	0	0	4	94	20,786	0	0	4	96
BLC4	20,205	0	0					5	94	21,057	0	0	5	98	21,468	0	0	5	99
RCCO	19,740	1	0					4	91	20,572	1	0	4	95	20,973	1	0	4	97
LCCO	19,740	1	0					4	91	20,572	1	0	4	95	20,973	1	0	4	97
AFR	28,701	3	0					3	133	29,912	3	0	4	139	30,495	3	0	4	141
P9	277W	60	1400					T1S	34,819	3	0	4	126	36,288	3	0	4	131	36,996
				T2M	32,255	3	0	5	116	33,616	3	0	5	121	34,271	3	0	5	124
				T3M	32,629	3	0	5	118	34,006	3	0	5	123	34,668	3	0	5	125
				T3LG	29,146	3	0	3	105	30,376	3	0	4	110	30,968	3	0	4	112
				T4M	33,116	3	0	5	120	34,513	3	0	5	125	35,185	3	0	5	127
				T4LG	30,119	3	0	3	109	31,389	3	0	4	113	32,001	3	0	4	116
				TFTM	33,345	3	0	5	120	34,751	3	0	5	125	35,429	3	0	5	128
				T5M	34,071	5	0	4	123	35,509	5	0	4	128	36,201	5	0	4	131
				T5W	34,624	5	0	4	125	36,084	5	0	4	130	36,788	5	0	4	133
				T5LG	34,170	5	0	3	123	35,612	5	0	3	129	36,306	5	0	3	131
				BLC3	23,734	0	0	4	86	24,735	0	0	4	89	25,217	0	0	4	91
				BLC4	24,513	0	0	5	88	25,547	0	0	5	92	26,045	0	0	5	94
				RCCO	23,948	1	0	4	86	24,958	1	0	4	90	25,445	1	0	4	92
				LCCO	23,948	1	0	4	86	24,958	1	0	4	90	25,445	1	0	4	92
				AFR	34,819	3	0	4	126	36,288	3	0	4	131	36,996	3	0	4	134



Performance Data

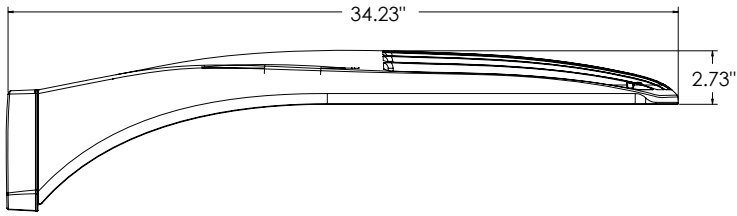
Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of configurations shown within the tolerances described within LM-79. Contact factory for performance data on any configurations not shown here.

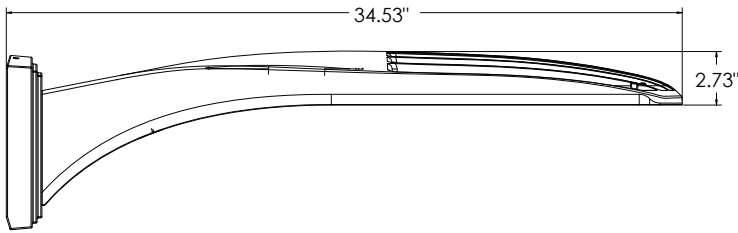
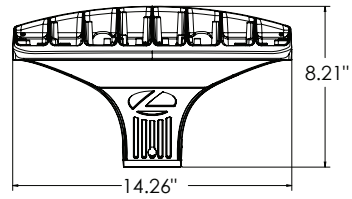
Rotated Optics																							
Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K					40K					50K								
					(3000K, 70 CRI)					(4000K, 70 CRI)					(5000K, 70 CRI)								
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW				
P10	101W	60	530	T1S	15,164	3	0	3	150	15,803	3	0	3	156	16,112	3	0	3	159				
				T2M	14,047	4	0	4	139	14,640	4	0	4	145	14,925	4	0	4	147				
				T3M	14,208	4	0	4	140	14,807	4	0	4	146	15,096	4	0	4	149				
				T3LG	12,693	3	0	3	125	13,229	3	0	3	131	13,487	3	0	3	133				
				T4M	14,420	4	0	4	142	15,028	4	0	4	148	15,321	4	0	4	151				
				T4LG	13,115	3	0	3	129	13,668	3	0	3	135	13,934	3	0	3	138				
				TFTM	14,522	4	0	4	143	15,134	4	0	4	149	15,429	4	0	4	152				
				T5M	14,836	4	0	2	146	15,462	4	0	2	153	15,763	4	0	2	156				
				T5W	15,076	4	0	3	149	15,712	5	0	3	155	16,019	5	0	3	158				
				T5LG	14,879	3	0	2	147	15,507	3	0	2	153	15,809	3	0	2	156				
				BLC3	10,335	3	0	3	102	10,771	4	0	4	106	10,981	4	0	4	108				
				BLC4	10,674	4	0	4	105	11,124	4	0	4	110	11,341	4	0	4	112				
				RCCO	10,429	1	0	2	103	10,869	1	0	2	107	11,080	1	0	2	109				
				LCCO	10,429	1	0	2	103	10,869	1	0	2	107	11,080	1	0	2	109				
				AFR	15,164	3	0	3	150	15,803	3	0	3	156	16,112	3	0	3	159				
				P11	135W	60	700	T1S	19,437	4	0	4	144	20,257	4	0	4	150	20,651	4	0	4	153
								T2M	18,005	4	0	4	133	18,765	4	0	4	139	19,131	4	0	4	142
T3M	18,211	4	0					4	135	18,980	4	0	4	141	19,350	4	0	4	143				
T3LG	16,270	3	0					3	121	16,957	3	0	3	126	17,287	4	0	4	128				
T4M	18,483	4	0					4	137	19,263	5	0	5	143	19,638	5	0	5	146				
T4LG	16,810	3	0					3	125	17,519	3	0	3	130	17,861	3	0	3	132				
TFTM	18,614	4	0					4	138	19,399	4	0	4	144	19,777	5	0	5	147				
T5M	19,017	5	0					3	141	19,819	5	0	3	147	20,205	5	0	3	150				
T5W	19,325	5	0					3	143	20,140	5	0	3	149	20,533	5	0	3	152				
T5LG	19,072	4	0					2	141	19,876	4	0	2	147	20,264	4	0	2	150				
BLC3	13,247	4	0					4	98	13,806	4	0	4	102	14,075	4	0	4	104				
BLC4	13,682	4	0					4	101	14,259	4	0	4	106	14,537	4	0	4	108				
RCCO	13,367	1	0					3	99	13,931	1	0	3	103	14,203	1	0	3	105				
LCCO	13,367	1	0					3	99	13,931	1	0	3	103	14,203	1	0	3	105				
AFR	19,437	4	0					4	144	20,257	4	0	4	150	20,651	4	0	4	153				
P12	206W	60	1050					T1S	27,457	4	0	4	133	28,616	4	0	4	139	29,174	4	0	4	142
								T2M	25,436	5	0	5	124	26,509	5	0	5	129	27,025	5	0	5	131
				T3M	25,727	5	0	5	125	26,812	5	0	5	130	27,335	5	0	5	133				
				T3LG	22,984	4	0	4	112	23,954	4	0	4	116	24,421	4	0	4	119				
				T4M	26,110	5	0	5	127	27,212	5	0	5	132	27,742	5	0	5	135				
				T4LG	23,747	4	0	4	115	24,749	4	0	4	120	25,231	4	0	4	123				
				TFTM	26,295	5	0	5	128	27,404	5	0	5	133	27,938	5	0	5	136				
				T5M	26,864	5	0	4	130	27,997	5	0	4	136	28,543	5	0	4	139				
				T5W	27,299	5	0	4	133	28,451	5	0	4	138	29,006	5	0	4	141				
				T5LG	26,942	4	0	2	131	28,078	4	0	2	136	28,626	4	0	2	139				
				BLC3	18,714	4	0	4	91	19,504	4	0	4	95	19,884	4	0	4	97				
				BLC4	19,327	5	0	5	94	20,143	5	0	5	98	20,535	5	0	5	100				
				RCCO	18,883	1	0	4	92	19,680	1	0	4	96	20,064	1	0	4	97				
				LCCO	18,883	1	0	4	92	19,680	1	0	4	96	20,064	1	0	4	97				
				AFR	27,457	4	0	4	133	28,616	4	0	4	139	29,174	4	0	4	142				
				P13	276W	60	1400	T1S	34,436	5	0	5	125	35,889	5	0	5	130	36,588	5	0	5	133
								T2M	31,900	5	0	5	116	33,246	5	0	5	121	33,894	5	0	5	123
T3M	32,265	5	0					5	117	33,626	5	0	5	122	34,282	5	0	5	124				
T3LG	28,826	4	0					4	105	30,042	4	0	4	109	30,628	4	0	4	111				
T4M	32,746	5	0					5	119	34,128	5	0	5	124	34,793	5	0	5	126				
T4LG	29,782	4	0					4	108	31,039	4	0	4	113	31,644	5	0	4	115				
TFTM	32,978	5	0					5	120	34,369	5	0	5	125	35,039	5	0	5	127				
T5M	33,692	5	0					4	122	35,113	5	0	4	127	35,797	5	0	4	130				
T5W	34,238	5	0					4	124	35,682	5	0	4	129	36,378	5	0	4	132				
T5LG	33,789	5	0					3	122	35,215	5	0	3	128	35,901	5	0	3	130				
BLC3	23,471	5	0					5	85	24,461	5	0	5	89	24,937	5	0	5	90				
BLC4	24,240	5	0					5	88	25,262	5	0	5	92	25,755	5	0	5	93				
RCCO	23,683	1	0					4	86	24,682	1	0	4	89	25,163	1	0	4	91				
LCCO	23,683	1	0					4	86	24,682	1	0	4	89	25,163	1	0	4	91				
AFR	34,436	5	0					5	125	35,889	5	0	5	130	36,588	5	0	5	133				



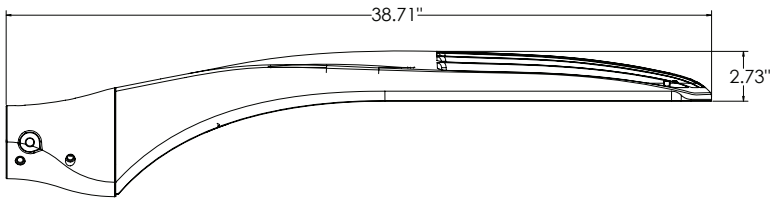
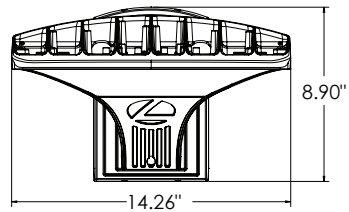
Dimensions



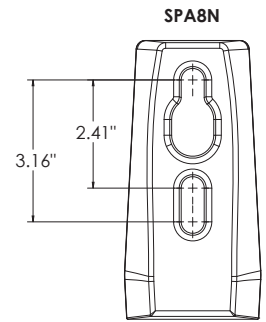
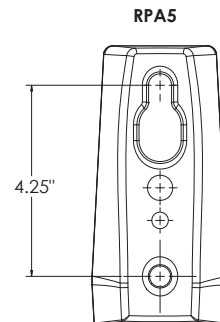
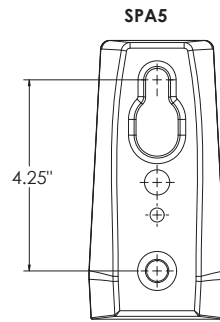
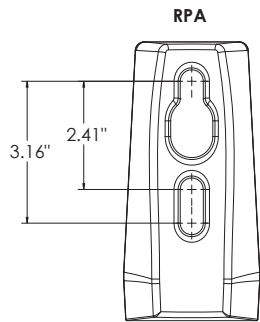
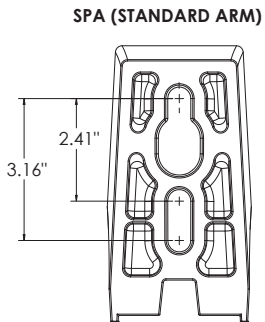
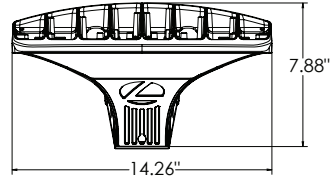
DSX1 with RPA, RPA5, SPA5, SPA8N mount
Weight: 36 lbs



DSX1 with WBA mount
Weight: 38 lbs

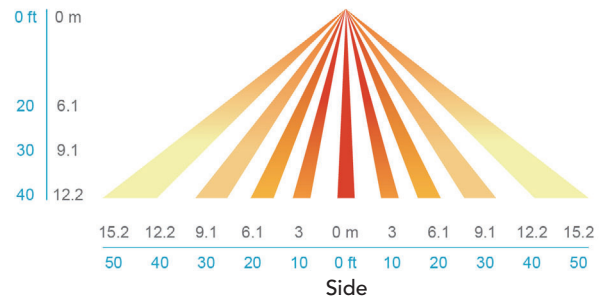
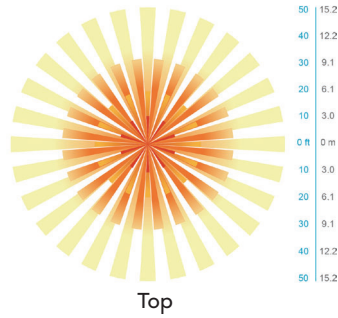


DSX1 with MA mount
Weight: 39 lbs



nLight Sensor Coverage Pattern

NLTAIR2 PIRHN



FEATURES & SPECIFICATIONS

INTENDED USE

The sleek design of the D-Series Size 1 reflects the embedded high performance LED technology. It is ideal for many commercial and municipal applications, such as parking lots, plazas, campuses, and streetscapes.

CONSTRUCTION

Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED drivers are mounted in direct contact with the casting to promote low operating temperature and long life. Housing driver compartment is completely sealed against moisture and environmental contaminants (IP66). Vibration rated per ANSI C136.31 for 3G for SPA and MA. 1.5G for mountings RPA, RPA5, SPA5 and SPA8N. Low EPA (0.69 ft²) for optimized pole wind loading.

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in both textured and non-textured finishes.

Coastal Construction (CCE)

Optional corrosion resistant construction is engineered with added corrosion protection in materials and/or pre-treatment of base material under super durable paint. Provides additional corrosion protection for applications near coastal areas. Finish is salt spray tested to over 5,000 hours per ASTM B117 with scribe rating of 10. Additional lead-times may apply.

OPTICS

Precision-molded proprietary silicone lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in standard 3000 K, 4000 K and 5000 K (70 CRI) configurations. 80CRI configurations are also available. The D-Series Size 1 has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL

Light engine configurations consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L81/100,000 hours at 25°C). Class 1 electronic drivers are designed to have a power factor >90%, THD <20%, and an expected life of 100,000 hours with <1% failure rate. Easily serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

STANDARD CONTROLS

The DSX1 LED area luminaire has a number of control options. DSX Size 1, comes standard with 0-10V dimming drivers. Dusk to dawn controls can be utilized via optional NEMA twist-lock photocell receptacles. Integrated motion sensor with on-board photocells feature field-adjustable programming and are suitable for mounting heights up to 40 feet. Control option BL features a bi-level device that allows a second control circuit to switch all light engines to either 30% or 50% light output.

nLIGHT AIR CONTROLS

The DSX1 LED area luminaire is also available with nLight® AIR for the ultimate in wireless control. This powerful controls platform provides out-of-the-box basic motion sensing and photocontrol functionality and is suitable for mounting heights up to 40 feet. Once commissioned using a smartphone and the easy-to-use CLAIRITY app, nLight AIR equipped luminaires can be grouped, resulting in motion sensor and photocell group response without the need for additional equipment. Scheduled dimming with motion sensor over-ride can be achieved when used with the nLight Eclipse. Additional information about nLight Air can be found here.

INSTALLATION

Integral mounting arm allows for fast mounting using Lithonia standard #8 drilling and accommodates pole drilling's from 2.41 to 3.12" on center. The standard "SPA" option for square poles and the "RPA" option for round poles use the #8 drilling. For #5 pole drillings, use SPA5 or RPA5. Additional mountings are available including a wall bracket (WBA) and mast arm (MA) option that allows luminaire attachment to a 2 3/8" horizontal mast arm.

LISTINGS

UL listed to meet U.S. and Canadian standards. UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP66 rated. Rated for -40°C minimum ambient.

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 3000K color temperature only.

GOVERNMENT PROCUREMENT

BAA – Buy America(n) Act: Product with the BAA option qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product with the BAA option also qualifies as manufactured in the United States under DOT Buy America regulations.

BABA – Build America Buy America: Product with the BAA option also qualifies as produced in the United States under the definitions of the Build America, Buy America Act.

Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY

5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions




Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

Design Review Board Application

Applicant

Primary Location

DRB-25-12

 Justin Carter
 205-397-0370
 jcarter@fg-inc.net

1289 MONTGOMERY HWY
VESTAVIA HILLS, AL 35216

Submitted On: Jun 18, 2025

User Advisory

Owner of Property

Name

Hub in the Hills, Inc.

Address

361 Summit Blvd, Suite 100

City

Birmingham

State

AL

Zip Code

35243

Phone Number

205-790-3424

Email

will@cgpre.com

Billing/Responsible Party

Name

Will Akin

Address

361 Summit Blvd, Suite 100

City

Birmingham

State

AL

Zip Code

35243

Phone Number

205-790-3424

Email

will@cgpre.com

Representing Attorney/Other Agent

Name

--

Address

--

City

--

State

--

Zip Code

--

Phone Number

--

Email

--

Description of Property

Subject Property Address

1289 Montgomery Hwy

Property Zoning Classification

INST

Subdivision Name, Lot #, Block #, etc.

--

Reason for Request

Check all that apply

Preliminary Review

true

Landscape Review

true

Architectural Review

--

Final Review of Materials

--

Other

--

Detailed Explanation

Review of demolished building, revised parking lot and driveway layout, and revised landscaping.

Process

Check all that apply

New Building

--

Renovation of Existing Building

--

New Landscape Plan

true

Renovation to Existing Landscaping Plan

false

Other

--

Detailed Explanation

Revised landscaping due to building demolition, and revised driveway and parking lot layout

Affidavit:

I do hereby declare the above statements are true and that I, the owner, and/or my duly appointed representative will be at the scheduled hearing. Simultaneously with the submittal of this application, I am hereby submitting a notarized affidavit signed by the owner of the property in the attachments section of this application. NOTE: Applications cannot be processed without the notarized owners affidavit.

Review Requirements

The following information and exhibits shall be provided and presented on your proposed project for review. The Board will review the three project components at the meeting. The Board must approve all three components before any permit is issued. A design professional, owner, or owner representative with knowledge of design elements and project provisions should represent the project to the committee.

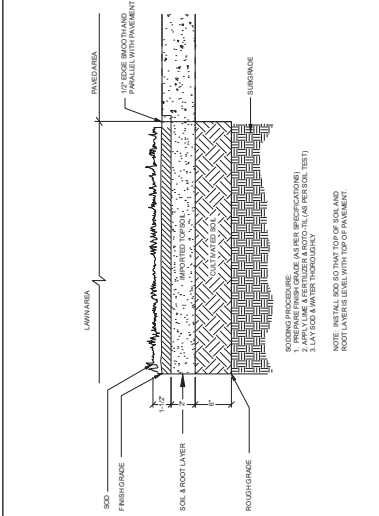
General: Provide three copies and one digital copy (pdf format) of all drawings or plans required below for review. Drawings must be to scale. These drawings should be turned in with the application. Drawings shall be folded to size 8 ½" by 11".

1. Architectural Review

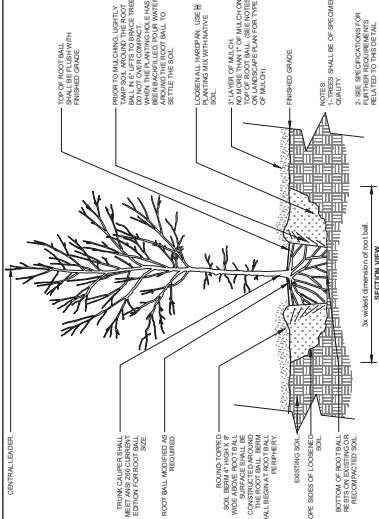
- a. Site plan showing roadways, entrances, exits and parking
- b. Building elevations showing construction material, material colors, context, and protrusions. Color rendering is preferred. Roof design must be detailed.
- c. Presentation by architect or owner with knowledge of compatibility with adjacent structures, city context, etc.

2. Landscape Review

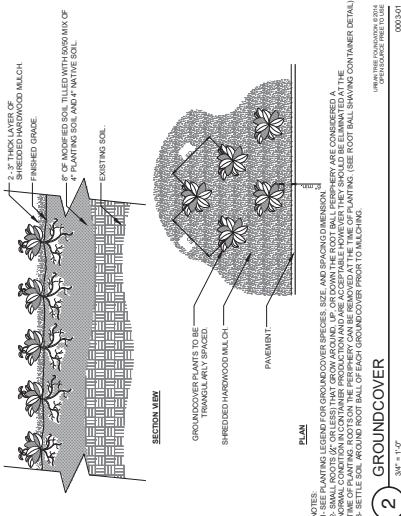
- a. Site plan showing contours, drainage containment areas, parking spaces, sidewalks, buffers, site lighting and details, etc.
- b. Landscape plan showing planting materials, designations, size, potted planting, window boxes, vines, etc. Trees will be identified by botanical name, quantity, and caliper. Shrubs will be identified by botanical name, quantity, and container size. Differentiate between existing and new landscaping.
- c. Parking lots: Provide calculations of total square footage and square footage designed for landscaping. Indicate handicapped spaces. Indicate size of parking spaces.
- d. Irrigation plan for all landscaped areas.
- e. Statement of maintenance policy and provisions.



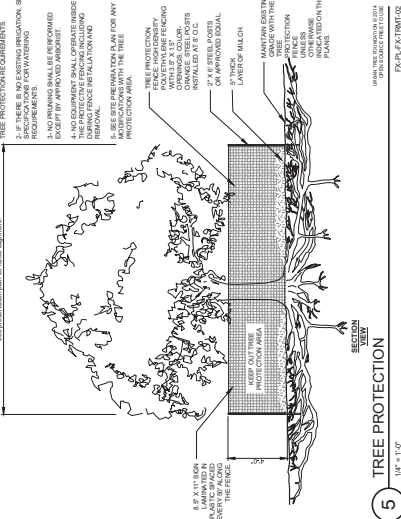
1 SOD INSTALLATION
 NOT TO SCALE
 0000-01



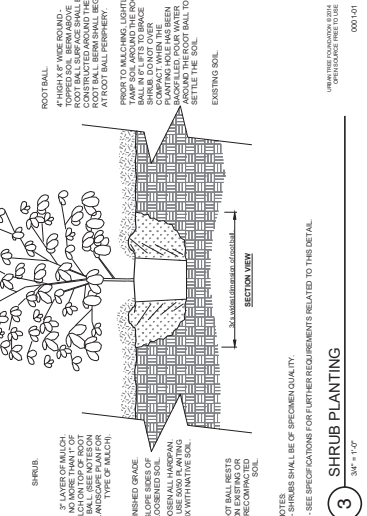
2 TREE PLANTING
 1/2\"/>



3 SHRUB PLANTING
 3/4\"/>

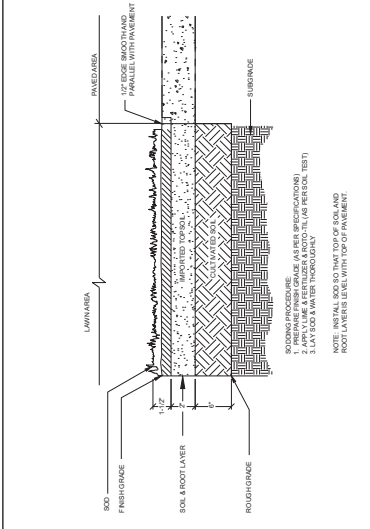


4 GROUND COVER
 3/4\"/>

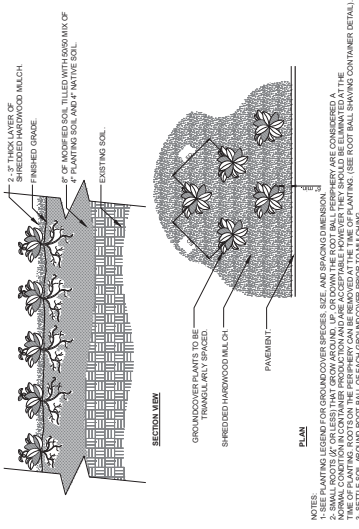


5 TREE PROTECTION
 1/2\"/>

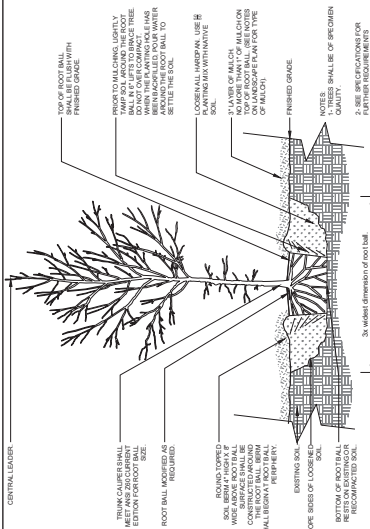
<p>NOTES:</p> <ol style="list-style-type: none"> SEE SPECIFICATIONS FOR ADDITIONAL SPECIFICATIONS FOR WATERING. NO BRINKING SHALL BE PERMITTED EXCEPT BY APPROVED AMMOBIST. LANDSCAPE SHALL BE MAINTAINED DURING INSTALLATION AND MAINTENANCE. SEE SITE PREPARATION PLAN FOR ANY MODIFICATIONS WITH THE TREE. 	<p>NOTES:</p> <ol style="list-style-type: none"> SEE SPECIFICATIONS FOR ADDITIONAL SPECIFICATIONS FOR WATERING. NO BRINKING SHALL BE PERMITTED EXCEPT BY APPROVED AMMOBIST. LANDSCAPE SHALL BE MAINTAINED DURING INSTALLATION AND MAINTENANCE. SEE SITE PREPARATION PLAN FOR ANY MODIFICATIONS WITH THE TREE. 	<p>NOTES:</p> <ol style="list-style-type: none"> SEE SPECIFICATIONS FOR ADDITIONAL SPECIFICATIONS FOR WATERING. NO BRINKING SHALL BE PERMITTED EXCEPT BY APPROVED AMMOBIST. LANDSCAPE SHALL BE MAINTAINED DURING INSTALLATION AND MAINTENANCE. SEE SITE PREPARATION PLAN FOR ANY MODIFICATIONS WITH THE TREE. 	<p>NOTES:</p> <ol style="list-style-type: none"> SEE SPECIFICATIONS FOR ADDITIONAL SPECIFICATIONS FOR WATERING. NO BRINKING SHALL BE PERMITTED EXCEPT BY APPROVED AMMOBIST. LANDSCAPE SHALL BE MAINTAINED DURING INSTALLATION AND MAINTENANCE. SEE SITE PREPARATION PLAN FOR ANY MODIFICATIONS WITH THE TREE. 	<p>NOTES:</p> <ol style="list-style-type: none"> SEE SPECIFICATIONS FOR ADDITIONAL SPECIFICATIONS FOR WATERING. NO BRINKING SHALL BE PERMITTED EXCEPT BY APPROVED AMMOBIST. LANDSCAPE SHALL BE MAINTAINED DURING INSTALLATION AND MAINTENANCE. SEE SITE PREPARATION PLAN FOR ANY MODIFICATIONS WITH THE TREE.
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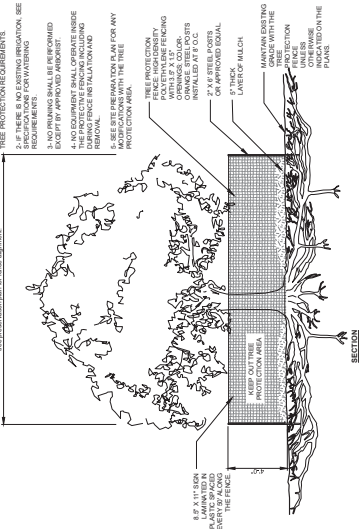
1 SOD INSTALLATION
 NOT TO SCALE
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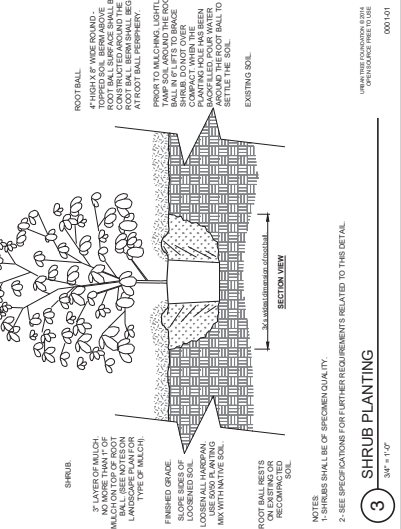
2 GROUND COVER
 3/4\"/>
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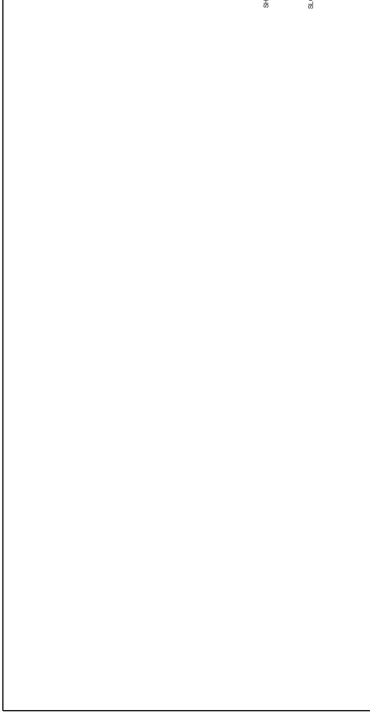
3 TREE PLANTING
 1/2\"/>
 0000-01



4 TREE PROTECTION
 1/2\"/>
 0000-01



5 SHRUB PLANTING
 3/4\"/>
 0001-01



6 CENTRAL LEADER
 1/2\"/>
 0000-01



7 SHRUB PLANTING
 3/4\"/>
 0001-01



8 TREE PROTECTION
 1/2\"/>
 0000-01