SUPERSHOW FIREWORKS
168 RIVER OTTER DRIVE
CROSSVILLE, TN 38571

CROSSVILLE, TENNESSEE

VICINITY SKETCH

NOT TO SCALE

SHEET INDEX

PROJECT CONTACTS:

APPROVAL AGENCY

CITY OF CROSSVILLE

Codes Enforcement
City of Crossville
392 N Main St
Crossville, TN 38555
(931) 484-5113

Engineering and Planning
Director of Engineering: Tim Begley – 931-456-6172

Planning Administrator & GIS: Kevin Dean – 931-456-8464

Engineering Assistant: Kevin Oakes – 931-787-1692

Engineering Technician / Stormwater Coordinator: Heath Blaylock – 931-456-6947

CROSSVILLE FIRE DEPARTMENT
Chief Chris South
Fire Chief
931-484-6144

UTILITIES

WATER SERVICE
City of Crossville
Tim Begley
Dir. of Engineering
392 N Main Street
Crossville, TN 38555
(931) 456-6172

SANITARY SEWER SERVICE
City of Crossville
392 N Main Street
Crossville, TN 38555
Utility Maintenance Division
Billy Poore
Utility Maintenance Superintendent

GAS SERVICE
Middle Tennessee Natural Gas Utility District
348 Old Jamestown Hwy
Crossville, TN 38555
8334386864

ELECTRICAL POWER SERVICE
Volunteer Electrical
235 Obrien Dr,
Crossville, TN 38555
(931) 484-3527

TELEPHONE SERVICE
Volfirst aka
Ben Lomand Connect
205 Obrien Dr, Crossville, TN 38555
(931) 484-5097

DEVELOPMENT TEAM

DEVELOPER/OWNER:
Van Gladney, Managing Partner
Supershow Fireworks
2760 Pawnee Rd
Birmingham AL 35217
(205)777-3247

ARCHITECT
Rob Walker, AIA - LEED AP
Rob Walker Architects, LLC
2229 First Avenue South Suite 110
Birmingham, Alabama 35233
(205)254-3212

CIVIL ENGINEER
AML Engineering and Development Services
Andrew M. Lewis, P.E.
Owner
P.O. Box 43881
Vestavia Hills, AL 35243
Phone: 205-329-3934

LEGEND

P.O.C.	POINT OF COMMENCEMENT
P.O.B.	POINT OF BEGINNING
(A)	ACTUAL
(R)	RECORD DEED
CRF	CAPPED REBAR FOUND
CMF	CONCRETE MONUMENT FOUND
SECT.	SECTION
T–	TOWNSHIP
R–	RANGE
R.O.W.	RIGHT–OF–WAY
S	SANITARY SEWER MANHOLE
— S —	UNDERGROUND SEWER LINE
— X —	FENCE
—//—	HOG WIRE FENCE
—□—	WOOD FENCE
UGT	EXISTING UNDERGROUND TELEPHONE CABLE
OHT	EXISTING OVERHEAD TELEPHONE CABLE
UGP	EXISTING UNDERGROUND POWER LINE
OHP	EXISTING OVERHEAD POWER LINE
2"W	EXISTING WATER LINE
8"SS	EXISTING SANITARY SEWER
G	EXISTING GAS LINE
278	EXISTING CONTOUR
270.66	EXISTING SPOT ELEVATION
	PROPOSED DESIGN BUILD WALL BY OTHERS
TW =250.5 BW =248.0	PROPOSED TOP AND BOTTOM OF WALL EL
278	PROPOSED CONTOUR
284.10	PROPOSED SPOT ELEVATION
	FLOW LINE
	PROPOSED FENCE
	SETBACK LINE
	PROPERTY LINE
	EASEMENT LINE
	PROPOSED ASPHALT PAVEMENT
	PROPOSED CONCRETE PAVEMENT
	PROPOSED RIP RAP
	PROPOSED SOD

811

Know what's **below**
Call before you dig

REVISION:	DATE:
ISSUED FOR APPROVAL	11-6-24

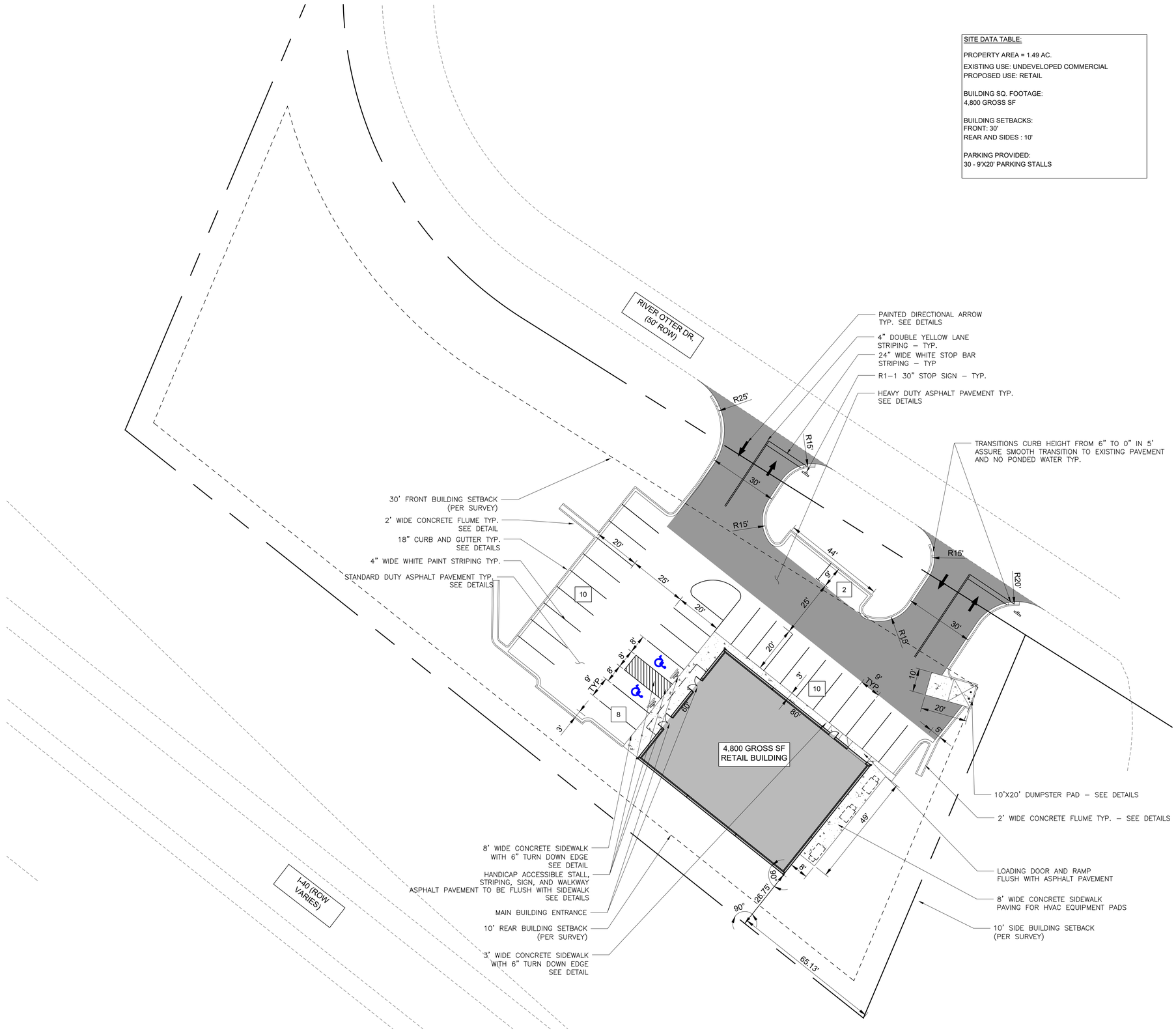
DEVELOPMENT SERVICES & ENGINEERING
P.O. BOX 43881 VESTAVIA, AL 35243
205-329-3934, AMLENG.COM

COVER SHEET
SUPERSHOW FIREWORKS
168 RIVER OTTER DRIVE
CROSSVILLE, TN 38571
LOT 6 WHEELER SUBDIVISION
PID 087 029.03
ROB WALKER ARCHITECTS, LLC

ANDREW M. LEWIS
REGISTERED ENGINEER
ARCHITECTURE & ENGINEERING COMMERCE
No. 127707
STATE OF TENNESSEE

PROJECT NO: 24RWA01
DATE: 11-6-24
DWG. NO. - REV.

C0-R0



SITE DATA TABLE:
PROPERTY AREA = 1.49 AC.
EXISTING USE: UNDEVELOPED COMMERCIAL PROPOSED USE: RETAIL
BUILDING SQ. FOOTAGE: 4,800 GROSS SF
BUILDING SETBACKS: FRONT: 30' REAR AND SIDES : 10'
PARKING PROVIDED: 30 - 9'X20' PARKING STALLS

0' 20' 40' 60'

SCALE IN FEET
1" = 20'

SITE PLAN LEGEND:

HEAVY DUTY ASPHALT PAVEMENT

STANDARD DUTY ASPHALT PAVEMENT

CONCRETE PAVEMENT

PARKING STALL COUNT 3

SITE LAYOUT NOTES

1. All dimensions are to outside face of building, to face of curb, or edge of surfacing.
2. Refer to building plans for actual building dimensions, all utility tie-ins, bollard locations and other related information.
3. Directional arrows and parking spaces striping shall be white. Handicap parking striping shall be blue and symbol shall be white unless local codes indicate otherwise.
4. All radii are 3' unless otherwise noted.
5. Tie proposed drives to existing pavement, matching grade and assuring smooth transition.

GENERAL NOTES:

1. Boundary and Topographic Survey provided by Owner. It shall be the obligation of the Contractor to satisfy themselves as to the accuracy of the topographic survey and existing utilities furnished on the grading plan and/or utility plan by personal examination of the site and the existing conditions. If the Contractor disagrees with the topographic survey or the existing utility locations, they must notify in writing the Owner in advance of bidding or it is taken that the Contractor accepts the existing topography and utilities as shown.
2. Contractor shall protect all property corners and benchmark. If destroyed during construction, contractor shall replace at his expense.
3. Contractor is responsible for any and all damage caused to existing improvements on site or off site due to the construction of this project. Contractor shall repair or replace any damaged existing improvements at his expense. Repairs shall be equal to or better than the existing conditions.
4. Handicap symbols, signs, and ramps shall be installed in accordance with local, state, and ADA requirements. Maximum slope in handicap areas shall not exceed 2% in any direction.
5. Contractor shall contact all utilities and locate all utilities within the work area prior to starting construction. Any conflicts shall be reported to the engineer prior to starting construction. Contractor is responsible for fixing any utilities damaged during construction.
6. Contractor shall obtain all permits and approvals prior to beginning construction.
7. The civil engineer shall not have authority over the Contractor's work and/or responsibilities. The civil engineer is not responsible for methods or procedures of construction selected by the Contractor, or for safety precautions incident to the work of the Contractor, or for any failure of the Contractor to comply with laws, rules, regulations, ordinances, or codes applicable to the Contractor furnishing and performing the work.

DEMOLITION NOTES:

1. Contractor shall protect all property corners and benchmarks. If destroyed during construction, contractor shall replace at his expense.
2. Contractor shall have all utilities located on and adjacent to the site prior to beginning work. All utilities shown are approximate.
3. All existing improvements (paving, curb, sidewalks, etc.) shall be demolished inside the demolition limits unless specified otherwise. All improvements outside demolition limits shall remain unless specified otherwise. Demolition includes removal of building footings and underground utilities that are not in service. existing utilities to remain operational shall be protected during construction.
4. Contractor shall safeguard all existing utilities within adjacent right-of-way and demolition limits.
5. All demolished materials shall be hauled off and disposed of in a legal manner. demolished concrete shall not be incorporated into fill material.
6. Contractor shall sawcut all existing paving at demolition limits shown on plan. contractor shall assure a smooth, straight line cut. concrete work (i.e., sidewalks and curbs and gutter) shall be removed beginning at closest construction joint or at property line, whichever is closer.
7. All excavations on site shall be backfilled and compacted according to project specifications.
8. All existing underground improvements (storm, sanitary sewer, septic field, ,etc.) may not be shown. Contractor shall report to owner and engineer improvements found during construction for evaluation.
9. Utilities taken out of service shall be capped and plugged a minimum of 2' below subgrade elevation and completely removed from site.
10. Provide traffic control devices in accordance with TDOT standard drawings and specifications for work near or within ROW.

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AML ENGINEERING & DEVELOPMENT SERVICES
P.O. BOX 43881 VESTAVIA, AL 35243
205-329-3934, AMLENG.COM

SITE LAYOUT PLAN

SUPERSHOW FIREWORKS
168 RIVER OTTER DRIVE
CROSSVILLE, TN 38571
LOT 6 WHEELER SUBDIVISION
PID 087 029.03

ROB WALKER ARCHITECTS, LLC

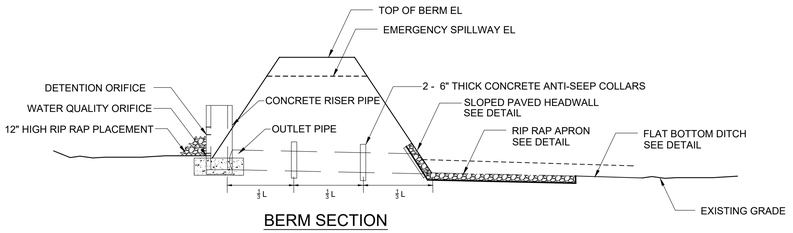
ANDREW M. LEWIS
REGISTERED ENGINEER
AGRICULTURE AND COMMERCE
No. 127102
STATE OF TENNESSEE

PROJECT NO:
24RWA01

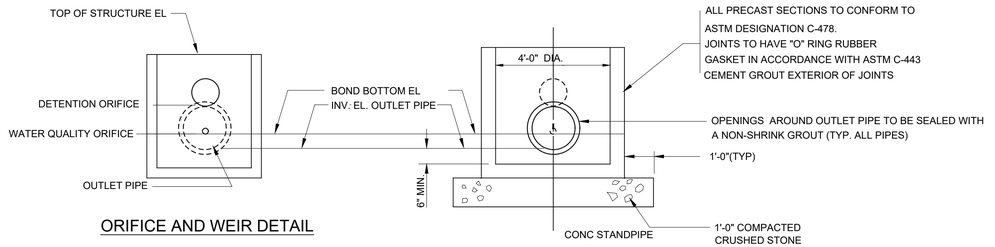
DATE:
11-6-24

DWG. NO. - REV.

C2-R0



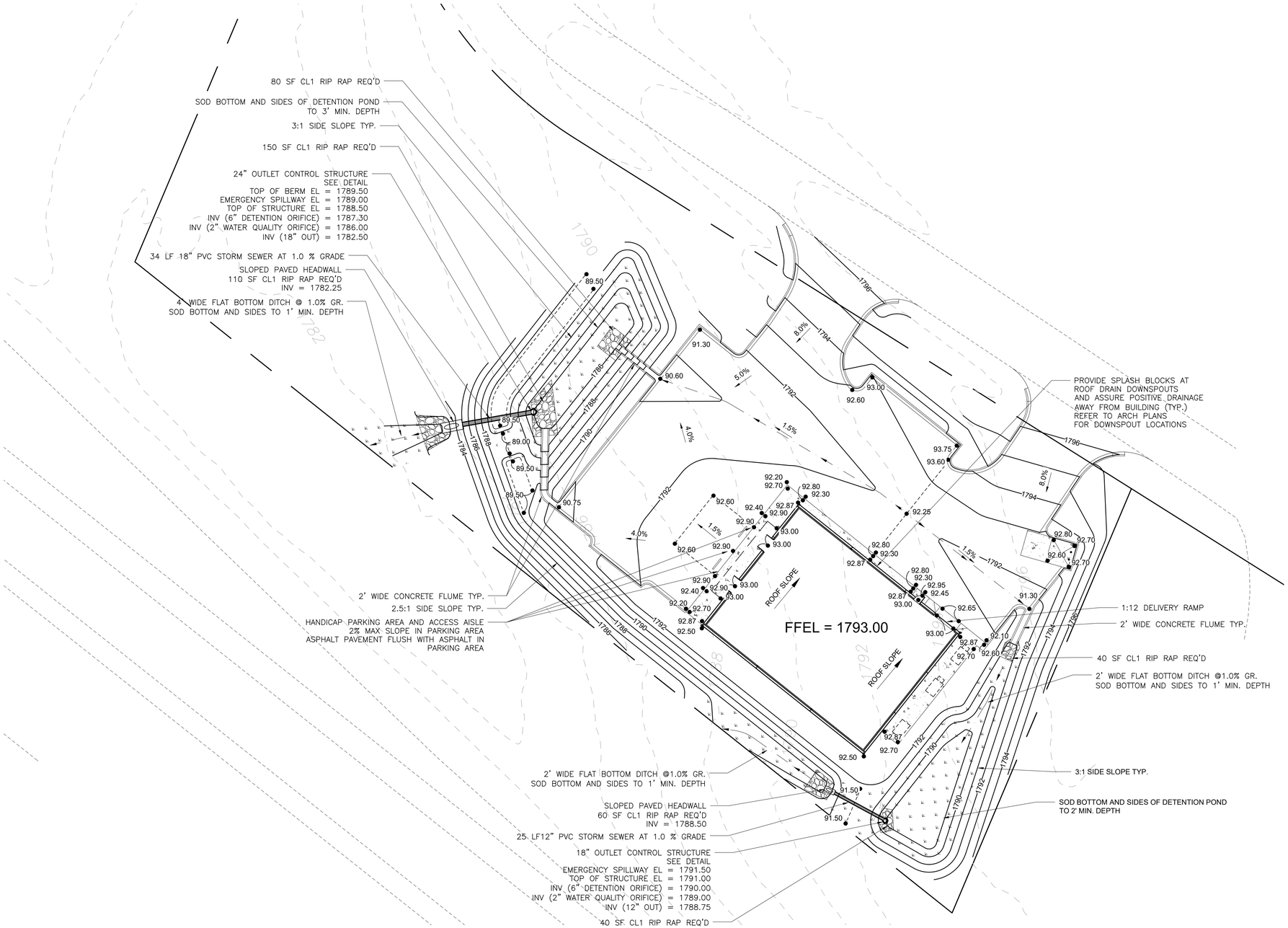
BERM SECTION

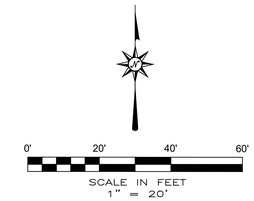


ORIFICE AND WEIR DETAIL

RISER SECTION

OUTLET CONTROL STRUCTURE DETAIL





Site Preparation Notes:

REFER TO THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS AND STRUCTURAL ENGINEERING PLANS AND SPECIFICATIONS FOR ADDITIONAL SITE PREPARATION REQUIREMENTS.

1. In all areas to receive engineered fill, pavements, and structures (including storm sewer facilities and equipment pads), all pavement, asphalt, concrete, trees, roots, topsoil, and deleterious materials shall be removed. Topsoil shall be stripped and grubbed, and stockpiled for re=spreading. All unsuitable materials encountered shall be removed. Any material to be removed shall be hauled from the site in a legal manner.
2. All buried structures encountered such as foundations, utility lines, septic tanks, septic field lines, etc. shall be removed and backfilled in accordance with requirements.
3. Materials disturbed during clearing operations shall be stabilized in place or, if necessary, undercut to undisturbed materials and backfilled with properly compacted, approved structural fill.
4. A geotechnical engineer's representative shall be on site during construction to help delineate the potential impact of low consistency areas.
5. Areas requiring fill shall be constructed by spreading acceptable soil in loose layers not more than 8 to 10 inches thick and compacting with appropriate equipment. The soils used within the proposed building and paved areas shall be compacted in lifts to 98 percent of the standard Proctor maximum dry density (ASTM D 698). The upper 24 inches of fill beneath pavements shall be compacted to at least 100 percent of standard Proctor maximum dry density.
6. Qualified testing personnel approved by the geotechnical engineer shall observe the filling operation. Field density tests, moisture contest tests, and proctor verification tests shall be performed during placement to determine the compaction achieved. As a general rule, the moisture content of the compacted fill soils shall be maintained within -3 to +3 percentage points of the optimum moisture content as determined from the standard Proctor compaction test. This provision may require the contractor to dry soils during periods of wet weather or to wet soils during the hot summer months.
7. Soil fill material should have a standard Proctor maximum dry density of 85 pcf or greater, with a liquid limit of less than 50 and a plasticity index (PI) of 35 or less. Before grading activities begin, bulk samples of the proposed fill soils shall be collected to determine natural moisture content, maximum dry density, optimum moisture content, and PI.
8. Several of the local borrow pits and on site soils consist of weathered sandstone, it is imperative these materials be reduced to a soil/gravel gradation during compaction. If the material size is not adequately reduced, it may degrade when exposed to water causing losses in soil volume and strength that could adversely affect the proposed structures/pavement sections. Maximum particle size, arriving at the fill area, shall be 10 inches.
9. The fill surface shall be adequately maintained during construction and shall be sloped to achieve sufficient drainage and to prevent ponding of water on the fill. If precipitation is expected while fill construction is temporarily halted, the surface shall be rolled with rubber-tired or steel-drummed equipment to improve surface run-off. If the surface soils become excessively wet or frozen, fill operations shall be halted, and the geotechnical engineer shall be consulted for guidance.
10. Refer to the geotechnical report and structural engineer's plans and specifications for site preparation requirements for foundations, footings, and slab on grade requirements.
11. The construction materials testing regiment shall be determined by the geotechnical engineer, but at a minimum, compaction testing shall be performed at the rate of at least 1 test per 2,500 square feet for each lift of fill within the building pad and at the rate of at least 1 test per 5,000 square feet for each lift of fill outside of the pavement areas, with a minimum of 3 tests per lift of fill within the building footprint.
12. All disturbed areas not to receive buildings, sidewalks, or pavements, shall receive topsoil. Place and spread topsoil to a uniform 4" depth with clean topsoil free of gravel, rocks, sticks, roots, or deleterious material.
13. All slopes 3:1 or steeper shall receive staked sod or erosion fabric with permanent grassing in accordance with the CBMPP. For all other disturbed areas, refer to the CBMPP and landscape plans for site stabilization requirements.

Storm Drainage Notes:

1. All PVC polyethylene storm drainage pipe shall be corrugated exterior smooth interior with o-ring gasketed bell-spigot joints watertight joints, ADS N-12, Contech A-2000 , or approved equal.
2. All storm structures shall have a smooth uniform poured mortar invert from invert in to invert out.

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AML ENGINEERING & DEVELOPMENT SERVICES
P.O. BOX 49881 VESTAVIA, AL 35243
205-329-9934, AMLENG.COM

GRADING AND DRAINAGE PLAN

SUPERSHOW FIREWORKS
168 RIVER OTTER DRIVE
CROSSVILLE, TN 38571
LOT 6 WHEELER SUBDIVISION
PID 087 029.03

ROB WALKER ARCHITECTS, LLC

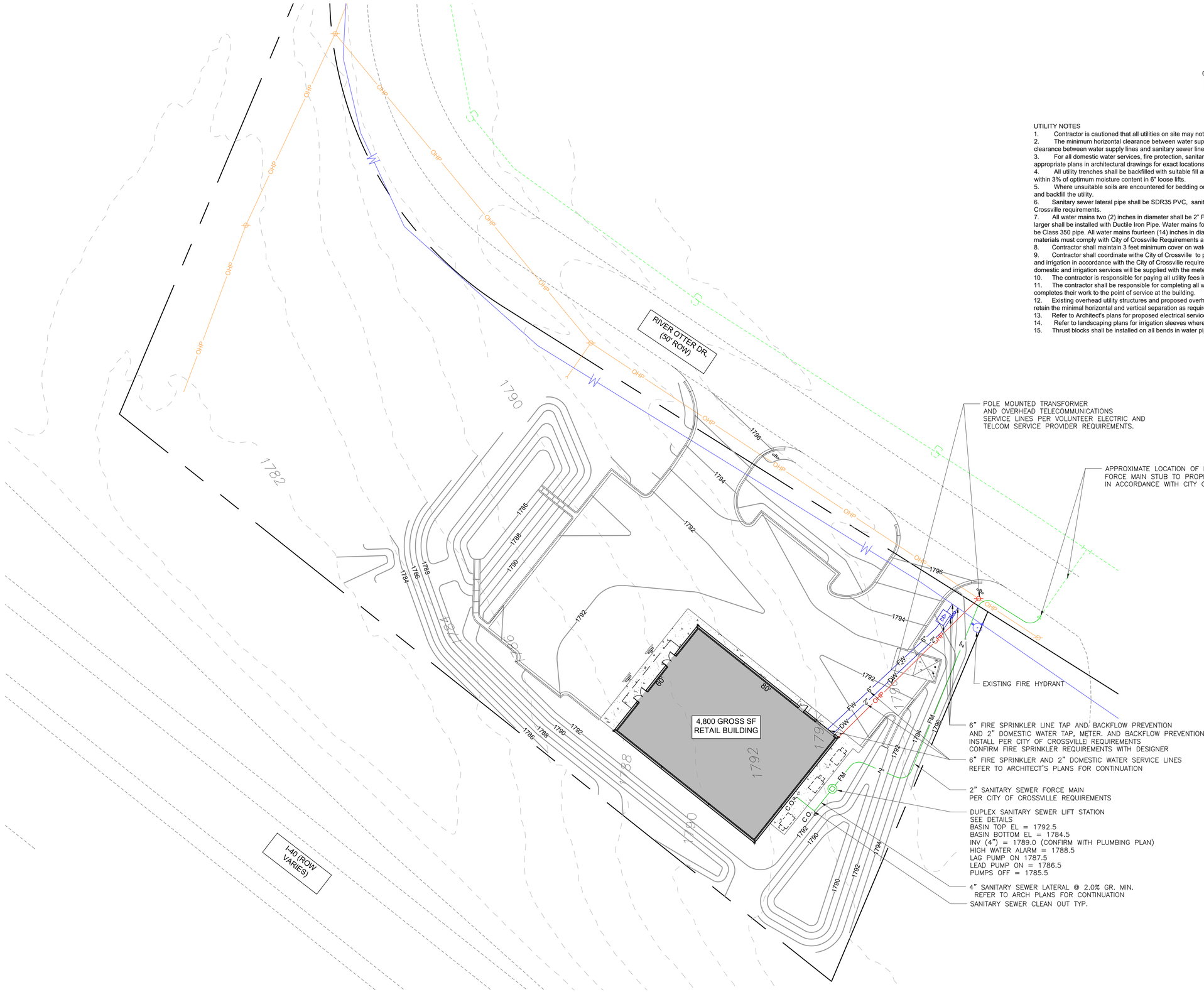
ANDREW M. LEWIS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 127707
STATE OF TENNESSEE

PROJECT NO:
24RWA01

DATE:
11-6-24

DWG. NO. - REV.

C3-R0



0' 20' 40' 60'

SCALE IN FEET
1" = 20'

UTILITY NOTES

1. Contractor is cautioned that all utilities on site may not be shown and the utilities shown are approximate.
2. The minimum horizontal clearance between water supply lines and sanitary sewer lines is 10 feet. The minimum vertical clearance between water supply lines and sanitary sewer lines is 2 feet.
3. For all domestic water services, fire protection, sanitary sewer, gas, telephone, and power entrances to the building, refer to appropriate plans in architectural drawings for exact locations and invert elevations. Field modify locations shown, if required.
4. All utility trenches shall be backfilled with suitable fill and compacted per ASTM D-698 to 95% the maximum dry density within 3% of optimum moisture content in 6" loose lifts.
5. Where unsuitable soils are encountered for bedding or backfilling purposes, soil or a well graded stone shall be used to bed and backfill the utility.
6. Sanitary sewer lateral pipe shall be SDR35 PVC, sanitary sewer force main shall be Scdl 40 PVC, or as per City of Crossville requirements.
7. All water mains two (2) inches in diameter shall be 2" PVC Class 200 pipe. All water mains four (4) inches in diameter and larger shall be installed with Ductile Iron Pipe. Water mains four (4) inches in diameter through twelve (12) inches in diameter shall be Class 350 pipe. All water mains fourteen (14) inches in diameter and larger shall be class 250 pipe. All main and meter materials must comply with City of Crossville Requirements and Inspections.
8. Contractor shall maintain 3 feet minimum cover on water and sewer lines.
9. Contractor shall coordinate withe City of Crossville to purchase and install backflow prevention for domestic water service and irrigation in accordance with the City of Crossville requirements, specifications and procedures. Backflow preventers for domestic and irrigation services will be supplied with the meter materials that must be purchased from the City.
10. The contractor is responsible for paying all utility fees incurred as associated with tapping to the main.
11. The contractor shall be responsible for completing all water, gas, electric, telephone services from the point the utility service completes their work to the point of service at the building.
12. Existing overhead utility structures and proposed overhead utility extensions to be constructed by the utility authority shall retain the minimal horizontal and vertical separation as required by the governing authority.
13. Refer to Architect's plans for proposed electrical service routing for light poles, equipment, signage, and ground lights.
14. Refer to landscaping plans for irrigation sleeves where required.
15. Thrust blocks shall be installed on all bends in water pipe 3° or greater in diameter. See details for information.

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AML
DEVELOPMENT SERVICES & ENGINEERING
P.O. BOX 49881 VESTAVIA, AL 35243
205-329-3934, AMLENG.COM

SITE UTILITY PLAN

SUPERSHOW FIREWORKS
168 RIVER OTTER DRIVE
CROSSVILLE, TN 38571
LOT 6 WHEELER SUBDIVISION
PID 087 028.03

ROB WALKER ARCHITECTS, LLC

ANDREW M. LEWIS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 127707
STATE OF TENNESSEE

PROJECT NO:
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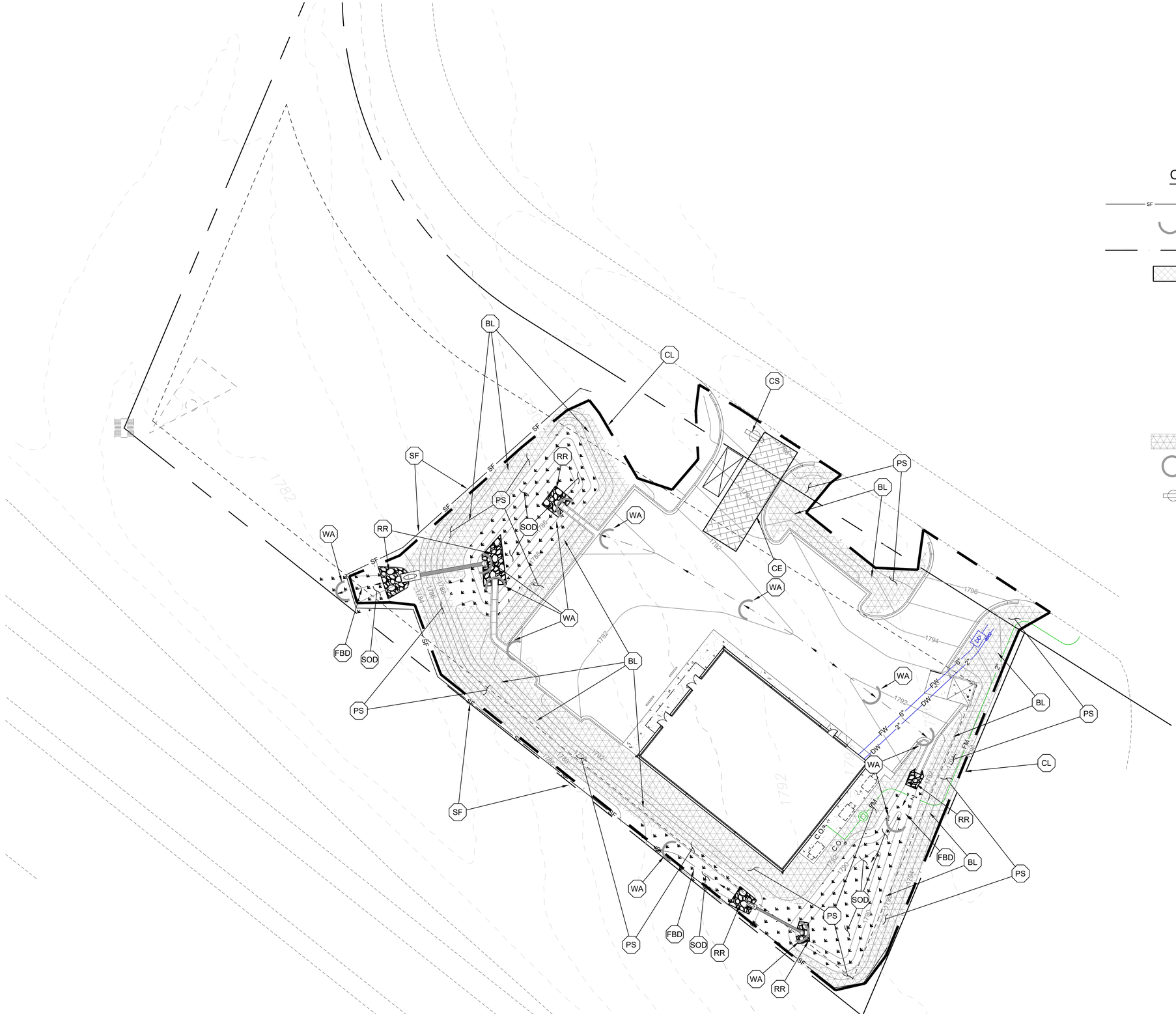
DWG. NO. - REV.

C4-R0



0' 20' 40' 60'

SCALE IN FEET
1" = 20'

CBMPP LEGEND

- SF — SILT FENCE REQ'D., TYPICAL.
- WA — WATTLE REQUIRED
- CL — CLEARING LIMITS / DISTURBED AREA.
- CE — 50' LONG X 25' WIDE CONSTRUCTION EXIT PAD REQ'D.
- CW — CONCRETE WASHOUT REQ'D.
- RR — RIP RAP PLACEMENT REQUIRED.
- FBD — FLAT BOTTOM DITCH
- SOD — SOLID SOD REQUIRED
- TS — TEMPORARY SEED AND MULCH
- PS — PERMANENT SEED AND MULCH
- BL — EROSION BLANKET
- FIP — FILTER DROP INLET PROTECTION
- CS — CONSTRUCTION INFORMATION AND PERMIT SIGN

REVISION:	DATE:
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AML
ENGINEERING & DEVELOPMENT SERVICES
P.O. BOX 43881 VESTAVIA, AL 35243
205-329-3934, AMLENG.COM

PHASE II CBMPP

SUPERSHOW FIREWORKS
168 RIVER OTTER DRIVE
CROSSVILLE, TN 38571
LOT 6 WHEELER SUBDIVISION
PID 087 029.08

ROB WALKER ARCHITECTS, LLC

ANDREW M. LEWIS
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No. 127102
STATE OF TENNESSEE

PROJECT NO:
24RWA01

DATE:
11-6-24

DWG. NO. - REV.

C8-R0