Big Oak Park Improvements

Bid Set

April 3, 2025

Approval by Augusta, Georgia is for the improvements shown in the Site Plan. Any variation from the approved Site Plan must be approved by the City Engineer.

This property IS NOT in the 100-year Floodplain.

		Area Draining to Each IMP			Storage Volume Provided by IMP (cf)
		On-site Pervious Area (acres)	On-site Impervious Area (acres)	Offsite Area (acres)	
IMP 1	Downspout Disconnect (C & D hydrologic soils)	0.01	0.04	0.00	0
IMP 2	Downspout Disconnect (C & D hydrologic soils)	0.00	0.04	0.00	0
IMP 3	Downspout Disconnect (C & D hydrologic soils)	0.00	0.03	0.00	0
IMP 4	Downspout Disconnect (C & D hydrologic soils)	0.01	0.03	0.00	0
IMP 5	Downspout Disconnect (C & D hydrologic soils)	0.02	0.02	0.00	0
IMP 6	Downspout Disconnect (C & D hydrologic soils)	0.03	0.02	0.00	0
IMP 7	Bioretention Basin (w/ upturned underdrain)	0.97	0.07	0.00	1,526
IMP 8	Bioretention Basin (w/ upturned underdrain)	0.04	0.03	0.00	478
IMP 9	Bioretention Basin (w/ upturned underdrain)	0.12	0.02	0.00	354
IMP 10	Permeable Paver/Pervious Concrete/Porous Asphalt (w/ upturned underdrain)	0.17	0.05	0.00	1,044

OWNER: AUGUST PARKS AND RECREATION DEPARTMENT
NAME: ALPHONZA C. WILLIAMS
ADDRESS: 2027 LUMPKIN ROAD AUGUSTA, GA. 30906
PHONE: (706)796-4084

SITE OPERATOR/GENERAL CONTRACTOR:

SUPERINTENDENT:

(24) 24 HR LOCAL EMERGENCY CONTACT
ANTHONY E. (TONY) WILLIAMS SR.
INFRASTRUCTURE SYSTEMS MANAGEMENT
PHONE: (706)-877-1884
EMAIL: AEWILLIAMS@ISMLLC-ENGR.COM

(CONTRACTOR'S NAME) (PHONE NUMBER)

NOTE: CONTRACTOR TO PROVIDE UPDATED INFORMATION ONCE CONTRACT IS AWARDED.

Big Oak Park
2803 Wheeler Road
Augusta, GA 30909

PIN: 033-2-011-00-0
ZONE: R-1C

SITE VICINITY MAP
SCALE: 1" = 500'

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Augusta GEORGIA RECREATION & PARKS
DELTA ENGINEERING
RAYMOND
SDC Sustainable Design Consultants, LLC

GEORGIA REGISTERED No. PE026690 PROFESSIONAL ENGINEER PATRICK N. GRAHAM
4-3-2025

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION 'ALTERED BY' FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

BIG OAK PARK IMPROVEMENTS

2803 WHEELER ROAD
AUGUSTA, GA 30909

No.	Submittal / Revision	Apv	By	Date
-	REVISED PERMIT SET	PG	AM	4-03-2025
-	REVISED PERMIT SET	PG	JM	8-5-2024
-	PERMIT SET	PG	JM	6-14-2024

COVER SHEET

Designed By:	Drawn By:	Checked By:
JM	JM	PG
Issue Date:	Project No.:	Scale:
09/30/24	080083	AS SHOWN

Drawing No.:
G-000

File: V:\PROJECTS\ANY\V6\080083.000\09_DESIGN\DRAWINGS\01_SHEETS\G-000-080083-B0.DWG
Scale: 4/3/2025 2:48:15 PM Plotted: 4/3/2025 2:50:57 PM Current User: Mwalker, Tim (cad5dwalk)

GENERAL NOTES

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE ALL PLAN SHEETS AND SPECIFICATIONS, AND COORDINATE ALL WORK AS REQUIRED.

2. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY CONDITIONS THAT VARY FROM THOSE SHOWN ON THE PLANS. THE CONTRACTOR'S WORK SHALL NOT VARY FROM THE PLANS WITHOUT THE EXPRESSED, WRITTEN APPROVAL OF THE ENGINEER.

3. THE CONTRACTOR SHALL RESTORE LAWNS, DRIVEWAYS, CULVERTS, SIGNS AND OTHER PUBLIC OR PRIVATE PROPERTY DAMAGED OR REMOVED TO AT LEAST AS GOOD A CONDITION AS BEFORE BEING DISTURBED AS DETERMINED BY THE ENGINEER. ANY DAMAGED TREES, SHRUBS, AND/OR HEDGES SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

4. THE CONTRACTOR IS INSTRUCTED TO COOPERATE WITH ANY AND ALL OTHER CONTRACTORS PERFORMING WORK ON THIS JOB SITE DURING THE PERFORMANCE OF THIS CONTRACT.

5. ALL WORK SHALL BE DONE IN STRICT COMPLIANCE WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES, STANDARDS, ORDINANCES, RULES, REGULATIONS, AND PERMITS.

6. THE CONTRACTOR SHALL PROTECT EXISTING PROPERTY LINE MONUMENTATION. ANY MONUMENTATION DISTURBED OR DESTROYED, AS JUDGED BY THE ENGINEER, SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE UNDER THE SUPERVISION OF A GEORGIA STATE LICENSED LAND SURVEYOR.

7. THE ENGINEER RESERVES THE RIGHT TO EXAMINE ANY WORK DONE ON THIS PROJECT AT ANY TIME TO DETERMINE THE CONFORMANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS OF THIS PROJECT, AS INTENDED AND INTERPRETED BY THE ENGINEER.

8. MISCELLANEOUS WORK NOT SPECIFICALLY SHOWN ON THE CONTRACT DRAWINGS SUCH AS PATCHING, BLOCKING, TRIMMING, ETC., SHALL BE PERFORMED TO MAKE THE WORK COMPLETE.

9. THE CONTRACTOR SHALL:
   9.1. VERIFY ALL CONDITIONS IN THE FIELD PRIOR TO COMMENCEMENT OF WORK AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
   9.2. EXAMINE THE SITE AND INCLUDE IN HIS WORK THE EFFECT OF ALL EXISTING CONDITIONS ON THE WORK.
   9.3. PROVIDE AND INSTALL ALL MATERIALS AND PERFORM ALL WORK IN ACCORDANCE WITH RECOGNIZED GOOD STANDARD PRACTICE.

10. ALL TRENCH EXCAVATION AND ANY REQUIRED SHEETING AND SHORING SHALL BE DONE IN ACCORDANCE WITH THE LATEST REVISIONS OF OSHA REGULATIONS FOR CONSTRUCTION. SHEET PILING SHALL BE DESIGNED AND SEALED BY A GEORGIA STATE PROFESSIONAL ENGINEER.

11. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL COMMERCIAL AND PUBLIC PROPERTIES WHENEVER POSSIBLE OR AS DIRECTED BY THE ENGINEER.

12. THE CONTRACTOR SHALL TAKE CARE TO PREVENT DAMAGE TO EXISTING UTILITIES. DAMAGED UTILITIES SHALL BE IMMEDIATELY REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.

13. ALL AREAS WHERE NATURAL VEGETATION AND/OR SPECIMEN TREES ARE TO REMAIN SHALL BE PROTECTED BY THE ERECTION OF FENCING, AND NO DISTURBANCE SHALL OCCUR PRIOR TO INSPECTION BY THE COUNTY ENGINEER OR DESIGNEE AND THE ISSUANCE OF WRITTEN AUTHORIZATION TO PROCEED WITH CONSTRUCTION. THESE PROTECTIVE MEASURES SHALL NOT BE ALTERED OR REMOVED WITHOUT THE APPROVAL OF THE ENGINEER. ANY TREES DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITY ARE TO BE REPLACED BY THE CONTRACTOR, IN KIND, AT HIS EXPENSE.

14. ALL UTILITY WORK INVOLVING CONNECTIONS TO EXISTING SYSTEMS SHALL BE COORDINATED WITH THE ENGINEER AND THE UTILITY OWNER. NOTIFY THE OWNER AND ENGINEER AT 2 WEEKS AND AGAIN AT LEAST 72 HOURS PRIOR TO EACH AND EVERY CONNECTION THAT IS MADE.

15. CONSTRUCTION OF ALL PROPOSED UTILITIES MUST BEGIN AT ITS POINT OF CONNECTION TO THE EXISTING UTILITY, OR AT THE LOWEST POINT IN THE SYSTEM. RIMS, GRATES, INVERTS, CLEARANCES AND LOCATIONS AT CROSSINGS MUST BE VERIFIED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

16. THE CONTRACTOR SHALL MAINTAIN FLOW FOR ALL EXISTING UTILITIES.

17. SEEDING AND GRADING LIMITS SHALL INCLUDE ALL AREAS WHICH ARE PART OF NEW CONSTRUCTION AND AREAS DISTURBED BY CONSTRUCTION PROCEDURES, EQUIPMENT AND VEHICLES.

18. THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION STAGING/SEQUENCE OF WORK PLAN TO THE OWNER FOR REVIEW AND APPROVAL WITHIN 14 CALENDAR DAYS OF THE AWARD OF THIS CONTRACT.

19. THE CONTRACTOR IS RESPONSIBLE FOR ALL SOIL EROSION CONTROL ON THIS PROJECT. THE CONTRACTOR IS REQUIRED TO COMPLY WITH ALL PROVISIONS OF THE APPROVED SOIL EROSION & SEDIMENT CONTROL PLANS. ALL ASPECTS OF THIS CERTIFICATION SHALL BE IMPLEMENTED PRIOR TO COMMENCEMENT OF CONSTRUCTION.

20. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY OR THE SAFETY OF CONSTRUCTION PERSONNEL OR TRANSIENTS, WHICH ARE THE RESPONSIBILITY OF THE CONTRACTORS.

21. THE CONTRACTOR SHALL APPLY FOR ALL PERMITS, INSPECTIONS AND CERTIFICATIONS WHICH ARE REQUIRED TO BE OBTAINED BY THE CONTRACTOR. THE CONTRACTOR SHALL FURNISH ANY BONDS AND INSURANCES REQUIRED AT HIS EXPENSE.

22. THE CONTRACTOR SHALL CONDUCT EXPLORATORY TEST PITS AS REQUIRED TO VERIFY UNDERGROUND CONDITIONS.

23. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN OPERATING CONSTRUCTION EQUIPMENT OVER NEW UTILITIES TRENCHES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLACING A MINIMUM OF TWO FEET OF COVER OVER UTILITY LINES PRIOR TO OPERATION OF VEHICLES AND MACHINERY.

24. THE PLANS SHOW SUBSURFACE STRUCTURES, ABOVE-GROUND STRUCTURES AND/OR UTILITIES FROM FIELD LOCATION AND RECORD MAPPING, EXACT LOCATION OF WHICH MAY VARY FROM THE LOCATIONS INDICATED. IN PARTICULAR, THE CONTRACTOR IS WARNED THAT THE EXACT OR EVEN APPROXIMATE LOCATION OF SUCH PIPELINES, SUBSURFACE STRUCTURES AND/OR UTILITIES IN THE AREA MAY BE DIFFERENT FROM THAT SHOWN OR MAY NOT BE SHOWN, AND IT SHALL BE HIS RESPONSIBILITY TO PROCEED WITH GREAT CARE IN EXECUTING ANY WORK. 3 FULL BUSINESS DAYS BEFORE YOU DIG OR DRILL, CALL THE GEORGIA DIG SAFE ONE-CALL AT: 8-1-1.

GENERAL SITE GRADING NOTES

1. PROPOSED GRADES SHALL BLEND SMOOTHLY WITH EXISTING ELEVATIONS.

2. THE CONTRACTOR SHALL STAKE OUT ALL GRADES IN THE FIELD PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES. THE ENGINEER SHALL APPROVE STAKED GRADES.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING AND THE MAINTENANCE OF SURFACE DRAINAGE DURING THE COURSE OF WORK. THE CONTRACTOR SHALL MAINTAIN EXISTING DRAINAGE PATTERNS THROUGHOUT THE PERIOD OF CONSTRUCTION.

GENERAL SITE REMOVAL NOTES

1. ALL ORGANIC CONSTRUCTION DEBRIS, SUCH AS TREES, BRUSH, OR SOD SHALL BE DISPOSED OF OFF-SITE IN A LEGAL MANNER, AT THE CONTRACTOR'S EXPENSE.

2. THE CONTRACTOR SHALL EXERCISE CARE DURING REMOVAL OPERATIONS. ANY ITEMS INDICATED TO REMAIN THAT ARE DAMAGED DURING REMOVAL OPERATIONS SHALL BE REPAIRED OR REPLACED IN KIND, BY THE CONTRACTOR, AT NO COST TO THE OWNER.

3. CONTRACTOR SHALL BE RESPONSIBLE FOR EROSION & SEDIMENT CONTROL OF ANY STORED TOPSOIL, GRADING STOCKPILE TO PROVIDE SUITABLE SLOPE FOR MOWING, AND SEEDING.

4. THE CONTRACTOR SHALL AVOID OR MINIMIZE THE AMOUNT OF DOWNTIME OF UTILITY SERVICE INTERRUPTION WHEN REMOVING AND DISPOSING OF EXISTING ELECTRICAL, STREET LIGHTING, SIGNAL (FIBER), TELEPHONE, CABLE TV, WATER AND SEWER SYSTEM COMPONENTS. CONTRACTOR IS RESPONSIBLE FOR MAKING ALL TEMPORARY UTILITY CONNECTS NECESSARY TO KEEP THE DISRUPTED UTILITY SYSTEMS ACTIVE DURING CONSTRUCTION.

GENERAL SITE LAYOUT NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL SITE STAKING AND FIELD LAYOUT. THE CONTRACTOR SHALL MAKE TIES TO ALL UTILITY CONNECTIONS AND PROVIDE AS-BUILT PLANS FOR ALL UTILITIES SHOWING TIES TO CONNECTIONS, BENDS, VALVES, LENGTHS OF LINES, AND INVERTS. AS-BUILT PLANS SHOWING ALL UNDERGROUND UTILITIES INSTALLED OR ENCOUNTERED SHALL BE REVIEWED BY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE ANY CORRECTIONS OR ADDITIONS TO THE SATISFACTION OF THE ENGINEER AND CITY BEFORE UTILITIES WILL BE ACCEPTED.

2. THE CONTRACTOR SHALL PROVIDE SMOOTH TRANSITIONS BETWEEN NEW WORK AND EXISTING CONDITIONS.

3. ALL ANGLES ARE 90°, UNLESS OTHERWISE INDICATED.

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4-3-2025

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BIG OAK PARK IMPROVEMENTS

2803 WHEELER ROAD
AUGUSTA, GA 30909

No.	Submittal / Revision	Apv	By	Date
-	REVISED PERMIT SET	PG	AM	4-03-2025
-	REVISED PERMIT SET	PG	JM	8-5-2024
-	PERMIT SET	PG	JM	6-14-2024

GENERAL CIVIL NOTES

Designed By:	Drawn By:	Checked By:
JM	JM	PG
Issue Date:	Project No.:	Scale:
09/30/24	080083	AS SHOWN

Drawing No.:

G-002

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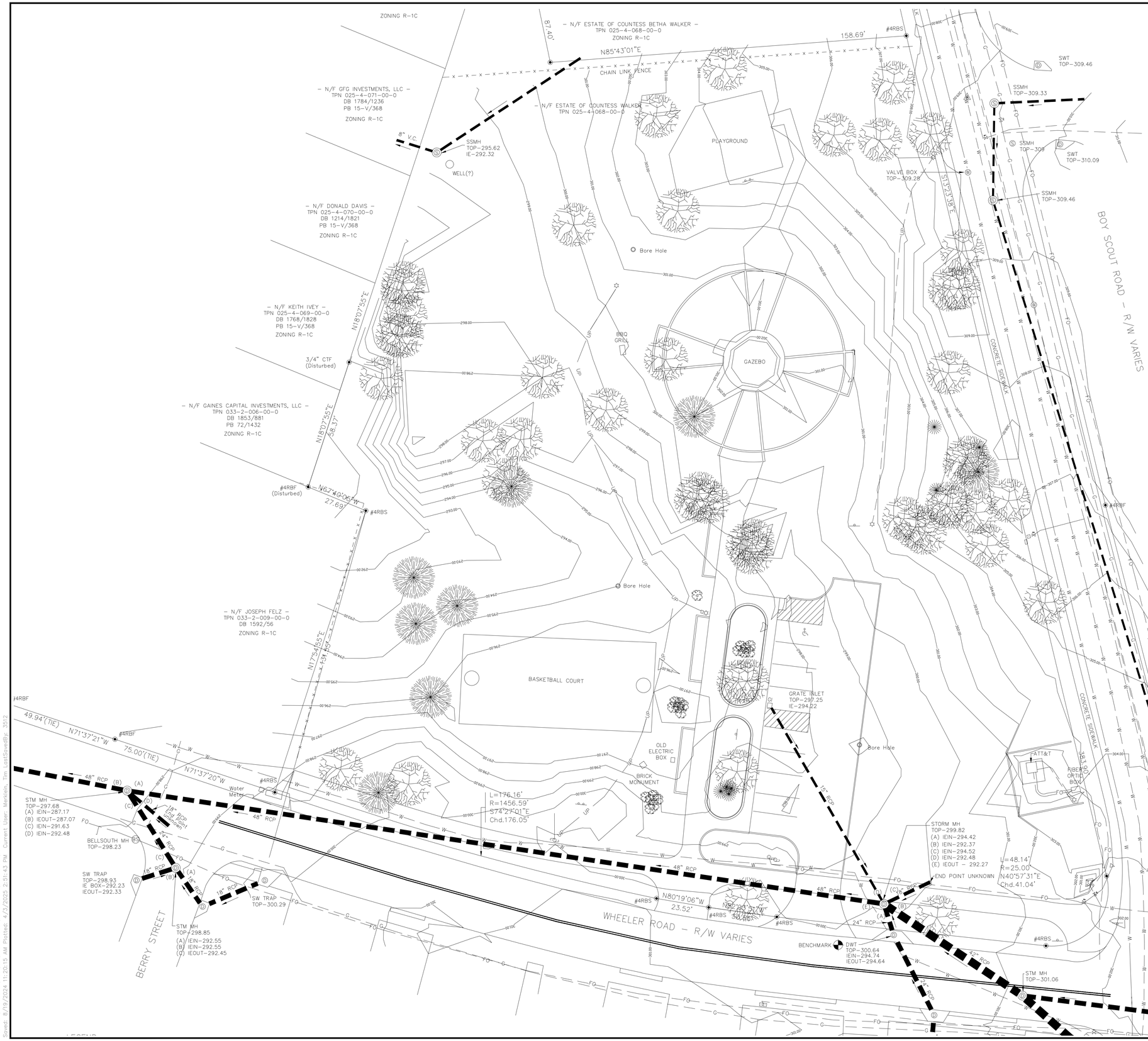

LEGEND

RBS	REBAR SET
RBF	REBAR FOUND
OTF	OPEN TOP PIPE FOUND
NSAB	NAIL SET AT BASE
	PROPERTY CORNER
	BORE HOLE
	LIGHT POLE
	POWER POLE
S	SANITARY SEWER MANHOLE
D	STORM MANHOLE
	FIRE HYDRANT
WV	WATER VALVE
GV	GAS VALVE
	SIGN
W	WATER LINE
FO	FIBER OPTIC
UP	UNDERGROUND POWER
WM	WATER METER

TREE LEGEND

OAK

PINE

CREPE MYRTLE

ENVIRONMENTAL

FLOOD PLAIN: NO
ZONE: X
FEMA PANEL: 13245C0110G
DATE: 11/15/2019

SURVEY DATA

EQUIPMENT USED: TOPCON GPT-3000LW
TRIMBLE SPECTRA SP-80
200' TAPE, PRISM
DATE OF SURVEY: 11/15/2023
PLAT CLOSURE: 1/212,967
ERROR OF CLOSURE: 0.003', NO ADJUST

REFERENCES

PLAT FOR ALBERT B. VERDERY BY CRANSTON & ASSOCIATES DATED 1965, DB 32-G/504

NOTE:

THIS SURVEY PERFORMED WITHOUT THE BENEFIT OF A TITLE SEARCH AND MAY BE SUBJECT TO RESTRICTIONS AND OTHER EASMENTS NOT SHOWN HEREON BUT THAT MAY BE RECORDED IN THE RMC OFFICE OF RICHMOND COUNTY.

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-	REVISED PERMIT SET	PG	JM	8-5-2024
-	PERMIT SET	PG	JM	6-14-2024

OVERALL EXISTING CONDITIONS PLAN

Designed By:	Drawn By:	Checked By:
JM	JM	PG
Issue Date:	Project No.:	Scale:
09/30/24	080083	AS SHOWN

Drawing No.:
C-001

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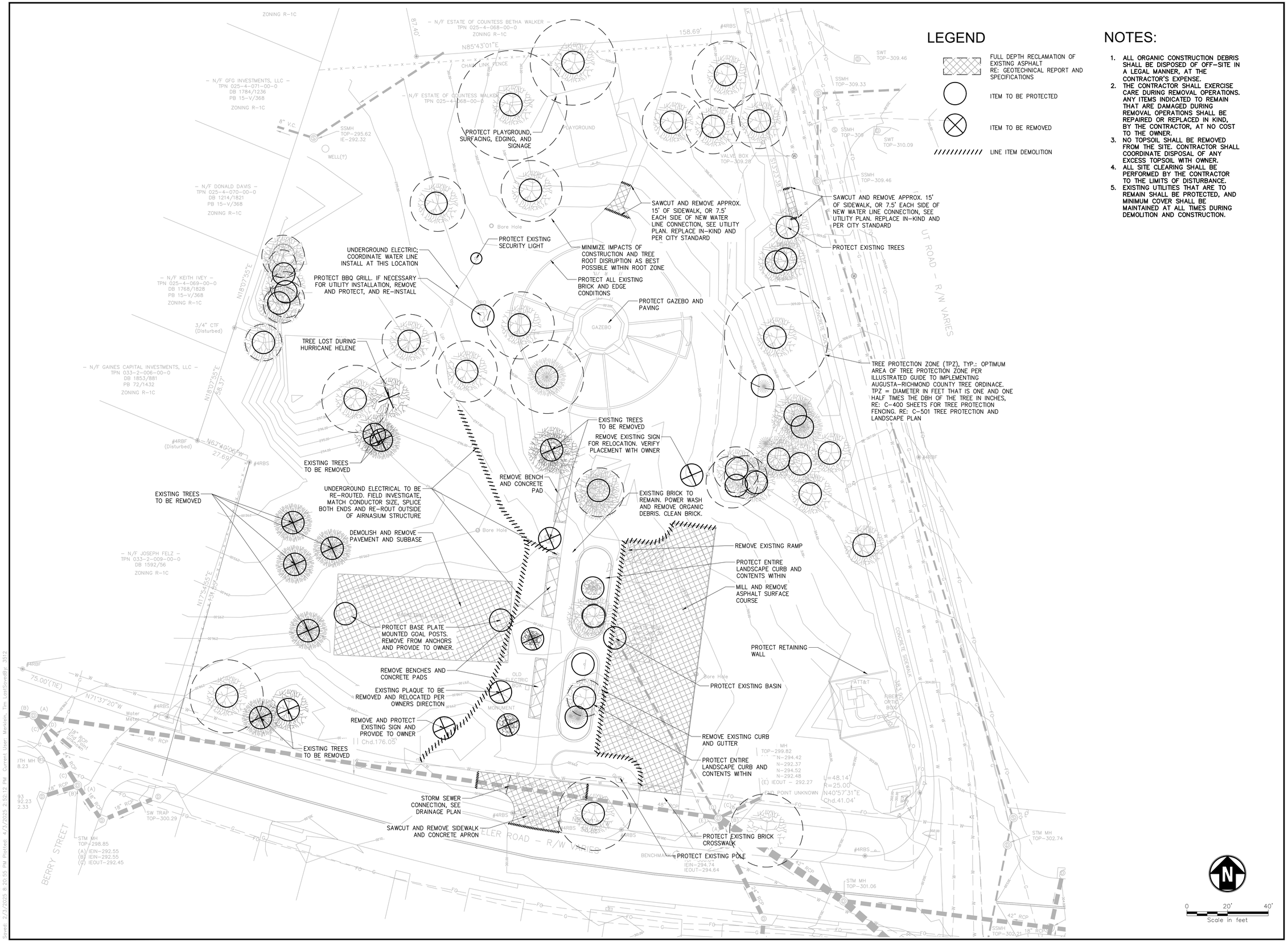

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DEMOLITION AND REMOVALS PLAN

Designed By:	Drawn By:	Checked By:
JM	JM	PG
Issue Date:	Project No.:	Scale:
09/30/24	080083	AS SHOWN

Drawing No.:
C-002

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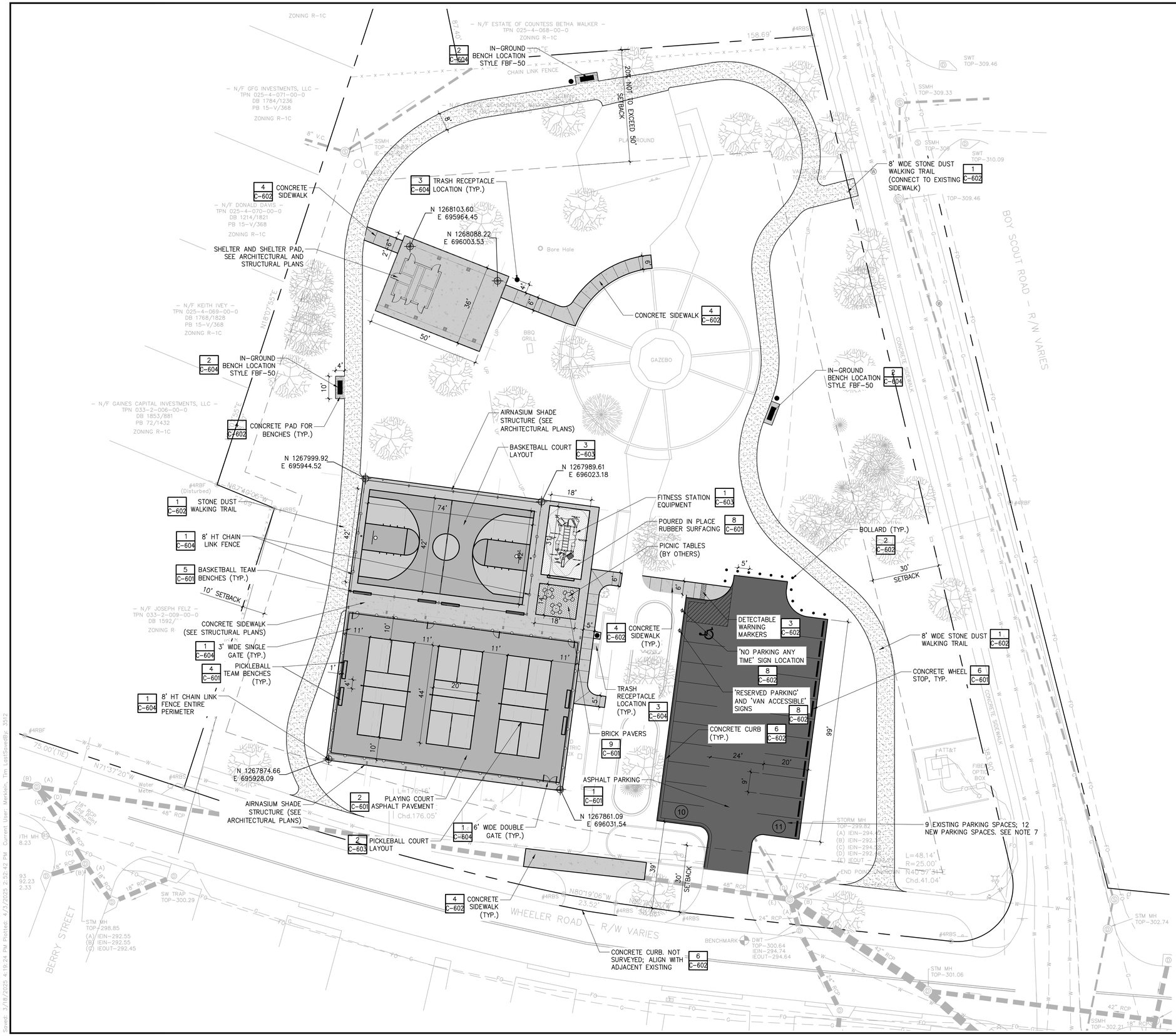

LEGEND

- CHAINLINK FENCE AND GATE
- CONCRETE PAVEMENT
- ASPHALT PAVEMENT
- STONE DUST TRAIL
- PICKLEBALL AND BASKETBALL COURT SURFACING
- (10) PARKING COUNT, SEE NOTE 7
- TRASH RECEPTACLE LOCATION

NOTES

1. SEE CIVIL LAYOUT DRAWINGS FOR COORDINATION OF WORK WITH GENERAL LAYOUT, PAVING, UTILITIES AND ALL OTHER CONDITIONS ADJACENT TO PLAYING FIELDS.
2. VERIFY ALL SITE CONDITIONS AND DIMENSIONS SHOWN ON THE PLANS PRIOR TO COMMENCEMENT OF WORK. NOTIFY OWNER AND ITS REPRESENTATIVES OF ANY DISCREPANCIES OR IRREGULAR CONDITIONS.
3. SEE SHEETS C-201 FOR GRADING AND C-251 FOR DRAINAGE PLANS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL FIELD LAYOUT. THE CONTRACTOR SHALL MAKE TIES TO ALL UTILITY CONNECTIONS AND PROVIDE MARKED-UP RECORD PLANS FOR ALL UTILITIES INSTALLED OR ENCOUNTERED PER SPECIFICATIONS.
5. ALL ANGLES ARE 90° UNLESS OTHERWISE INDICATED.
6. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING ALL ELEMENTS AS REQUIRED IN THE SPECIFICATIONS.
7. R-1C PARKING REQUIREMENTS REFER TO SECTION 4, OFF-STREET PARKING BY LAND USE. (9) RECREATIONAL FACILITIES NOT ELSEWHERE SPECIFIED STATES THAT THE NUMBER OF SPACES REQUIRED SHALL BE DETERMINED BY THE PLANNING AND DEVELOPMENT DEPARTMENT STAFF ON THE BASIS OF THE TYPE OF USE PROPOSED, ITS INTENDED OCCUPANCY, AND SEATING ARRANGEMENTS.

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SITE LAYOUT PLAN

Designed By:	Drawn By:	Checked By:
JM	JM	PG
Issue Date:	Project No.:	Scale:
09/30/24	080083	AS SHOWN

Drawing No.:
C-101

File: V:\PROJECTS\ANY\X6\080083.000\09_DESIGN\DRAWINGS\01_SHEETS\C-101-080083-BIO.DWG
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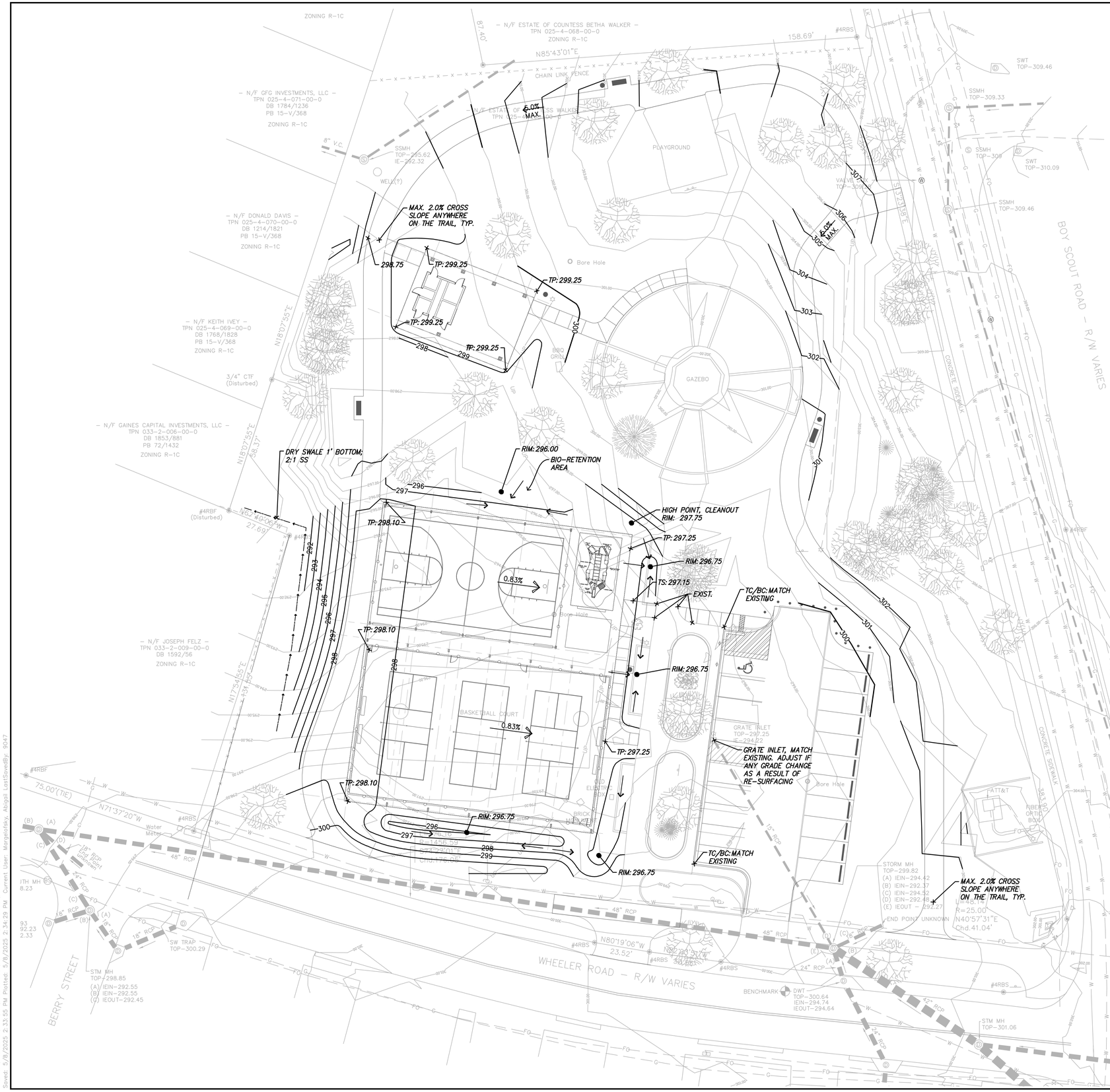

LEGEND

CONTOUR LINE

21.30 SPOT ELEVATION

SHEET FLOW DIRECTION

TC– TOP OF CURB
BC– BOTTOM OF CURB

TA– TOP OF ASPHALT

TS– TOP OF SIDEWALK
TP– TOP OF PAD (B-BALL/ SHELTER)

NOTES

1. FINISH GRADES TO MIRROR THAT OF THE FINISH SUBGRADE.
2. FINISH GRADES TO BE 0.833% CROSS SLOPE ON THE COURT SURFACE.
3. PROPOSED GRADES SHALL BLEND SMOOTHLY WITH ADJACENT PROPOSED ELEVATIONS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING AND THE MAINTENANCE OF SURFACE DRAINAGE DURING THE COURSE OF WORK.
5. GRADE FIELD TO A SMOOTH, EVEN PLAYING SURFACE TO THE SPOT ELEVATIONS AND CONTOURS SHOWN USING LASER OPERATED EQUIPMENT.
6. FINISH GRADES AND SPOT ELEVATIONS REPRESENT ELEVATIONS AFTER COURTS ARE COMPLETED PER SPECIFICATIONS.
7. THE CONTRACTOR SHALL STAKE OUT ALL GRADES IN THE FIELD PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES. THE ENGINEER SHALL APPROVE STAKED GRADES.
8. COURT GRADES ARE CONTINUOUS SLOPE UNLESS OTHERWISE NOTED.
9. PROTECT EXISTING UTILITIES, DRAINAGE STRUCTURES, AND FENCES FROM DAMAGE DURING GRADING.
10. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR IS TO COORDINATE THE PROTECTION OF DRAINAGE STRUCTURES AND DRAINAGE WAYS WITHIN THE PLAYING FIELD PROJECT AREA. RE: EROSION CONTROL PLAN FOR THE ENTIRE WORK SITE.
11. EXCESS MATERIAL FROM TRENCHES AND GENERAL EXCAVATION SHALL BE STOCKPILED ON SITE.
12. SEE TYPICAL CURB DETAIL 6/C–602 FOR VARIATIONS TO CURB PITCH. USE NORMAL GUTTER WHERE CURB IS BEING USED TO CONVEY SURFACE FLOW RUNOFF. USE PITCHED GUTTER WHERE SURFACE FLOW SLOPES AWAY FROM CURB, MOST LIKELY INSTANCES OF AN ISLAND BEING USED TO PROTECT A TREE, LANDSCAPE, OR FOR VEHICULAR CONTROL. DO NOT TRAP SURFACE RUNOFF IN GUTTER; MAINTAIN POSITIVE OUTLET

0 20' 40'
Scale in feet

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Augusta GEORGIA RECREATION & PARKS
DELTA ENGINEERING
RAYMOND
SDC Sustainable Design Consultants, LLC

GEORGIA REGISTERED No. PE026690 PROFESSIONAL ENGINEER PATRICK N. GRAHAM
5.9.2025

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION 'ALTERED BY' FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

BIG OAK PARK IMPROVEMENTS

2803 WHEELER ROAD
AUGUSTA, GA 30909

No.	Submittal / Revision	Apv	By	Date
-	REVISED PERMIT SET	PG	AM	4-03-2025
-	REVISED PERMIT SET	PG	JM	8-5-2024
-	PERMIT SET	PG	JM	6-14-2024

SITE GRADING PLAN

Designed By:	Drawn By:	Checked By:
JM	JM	PG
Issue Date:	Project No.:	Scale:
09/30/24	080083	AS SHOWN

Drawing No.:
C-201

File: V:\PROJECTS\ANY\X6\080083.000\09_DESIGN\DRAWINGS\01_SHEETS\C-201-080083-BIO.DWG
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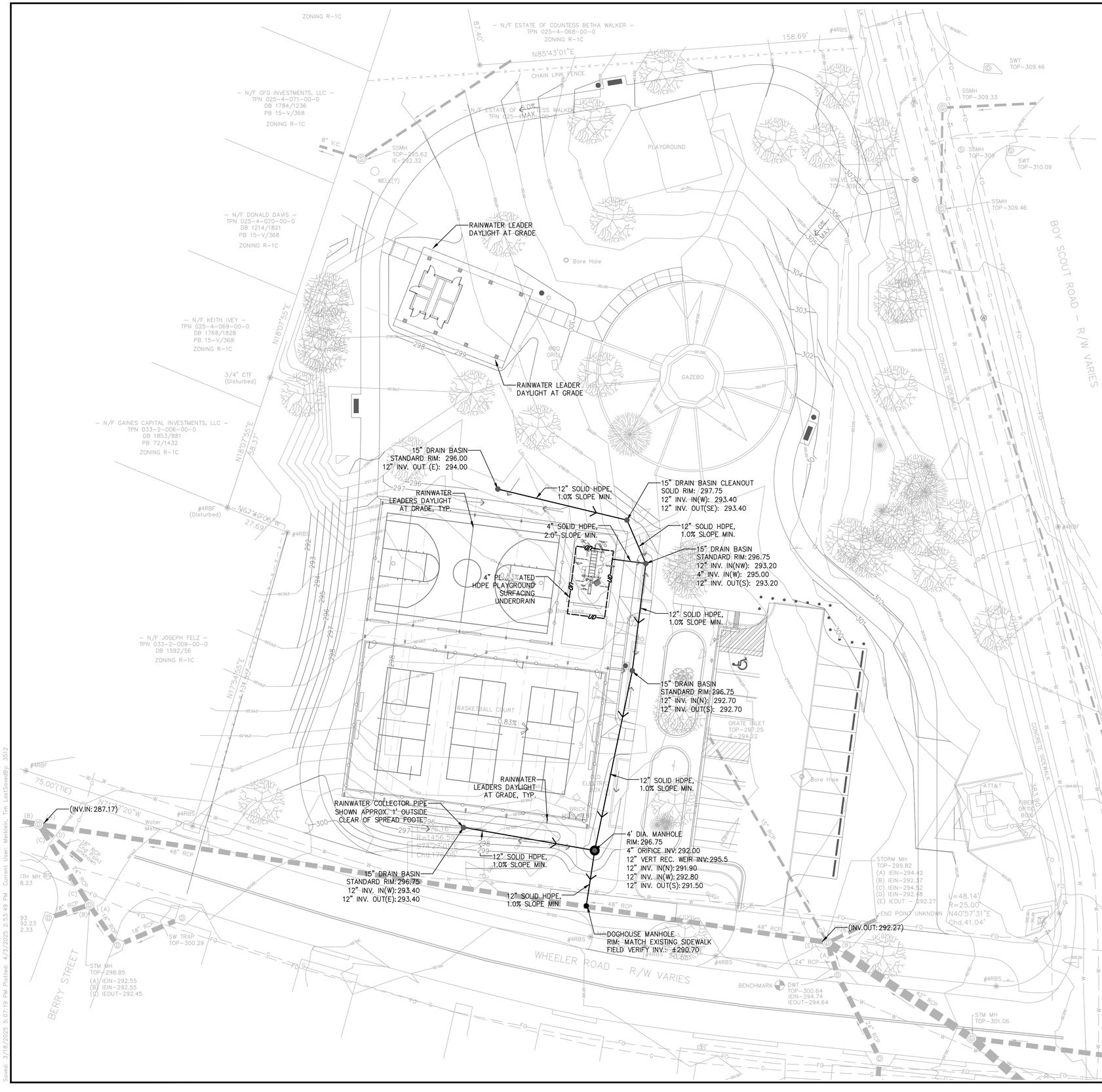

LEGEND

- PERFORATED UNDERDRAIN
- SOLID STORM DRAIN PIPE
- DRAIN BASIN / CLEANOUT

NOTES

1. PIPE TO BE HDPE, SIZED AS SHOWN.
2. DRAINS TO SLOPE AS INDICATED.
3. GEOTEXTILE FABRIC TO BE PLACED AT BOTTOM AND SIDES OF PIPE TRENCH PER DETAIL.
4. ALL ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS NOTED OTHERWISE.
5. CONTRACTOR TO COORDINATE AND BE AWARE OF SITE STORM PIPING AND STRUCTURES WITHIN THE CONSTRUCTION BOUNDARIES AS SHOWN ON THE DRAWINGS.
6. CONTRACTOR TO PROTECT DRAINAGE LINES DURING CONSTRUCTION FROM DEBRIS, INCLUDING SOIL OR GRAVEL MATERIAL OR OTHER TRASH FROM ENTERING OR BLOCKING LINES.
7. CONTRACTOR TO AVOID TRAFFIC OVER INSTALLED DRAINAGE TRENCHES TO PREVENT CRUSHING OF PIPE.
8. COORDINATE DRAINAGE CONNECTION AND INVERTS WITH EXISTING, IN-PLACE CONDITIONS.
9. CONTRACTOR SHALL CONTACT ENGINEER IMMEDIATELY IF DISCREPANCIES ARE FOUND IN FIELD.
10. DRAIN BASINS BASED ON NYLOPLAST STRUCTURES, OR APPROVED EQUAL. SUBMIT SHOP DRAWINGS / ORDER FORMS OF EACH BASIN FOR APPROVAL BY ENGINEER, RE: SPECIFICATIONS.
11. 4' DIA MANHOLE AND DOGHOUSE MANHOLE MUST HAVE POURED CONCRETE INVERTS.

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SDC Sustainable Design Consultants, LLC

GEORGIA REGISTERED No. PE026690 PROFESSIONAL ENGINEER PATRICK N. GRAHAM
4-3-2025

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No.	Submittal / Revision	Apv	By	Date
-	REVISED PERMIT SET	PG	AM	4-03-2025
-	REVISED PERMIT SET	PG	JM	8-5-2024
-	PERMIT SET	PG	JM	6-14-2024

SITE DRAINAGE PLAN

Designed By:	Drawn By:	Checked By:
JM	JM	PG
Issue Date:	Project No.:	Scale:
09/30/24	080083	AS SHOWN

Drawing No.:
C-251

File: V:\PROJECTS\VANTY\65\080083.000\09_DESIGN\DRAWINGS\01_SHEETS\C-251-080083-BD.DWG
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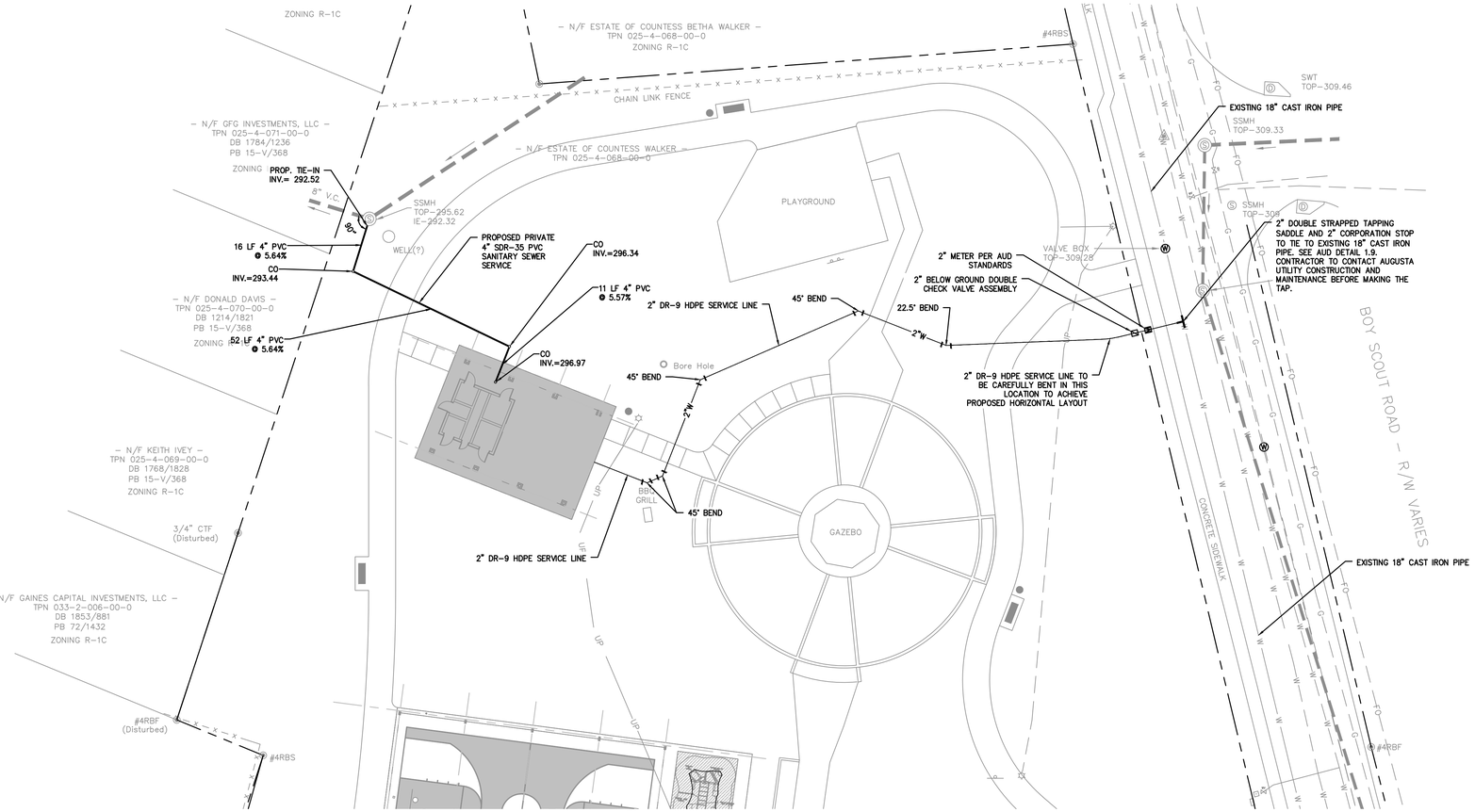

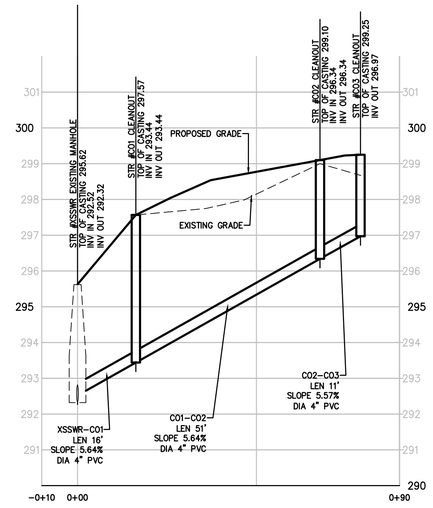

Proposed SSWR

scale: 1"=20' horizontal
1"=2' vertical

UTILITY PLAN LEGEND

- PROPERTY LINE
- 2"W — DOMESTIC WATER PIPING
- BEND (DEGREES NOTED ON PLAN)
- TAPPING SADDLE
- DOMESTIC WATER METER
- DOUBLE CHECK VALVE ASSEMBLY
- AUD AUGUSTA UTILITIES DEPARTMENT

GENERAL AUD NOTES

1. All construction of water distribution systems and wastewater collection system lines shall be in accordance with Augusta Utilities Department (AUD) Water & Sanitary Sewer Systems–Design Standards, Construction Specifications and Details (latest publication).
2. The Contractor is responsible for verifying the exact location, size, and material of any existing water or sanitary sewer utility proposed for connection or use by the project.
3. Contractor shall contact the Utilities Protection Inc. "Call Before You Dig" service (811) in order to locate utilities prior to starting any excavation or construction. The locations of underground utilities as shown on plans are approximate as determined from existing records.
4. The Contractor shall coordinate the work of the utility companies.
5. The Augusta Engineering Department (AED) shall be notified at least 48 hours (two working days) in advance during regular working hours (8:30am to 5:00pm, Monday–Friday, excluding Augusta, Georgia holidays) prior to the commencement of any construction activity within Augusta, Georgia right–of–way. Contact AED at (706–821–1706).
6. The AUD Engineering Division shall be notified at least 48 hours (two working days) in advance during regular working hours (8:30 am to 5:00 pm, Monday Friday, excluding Augusta, Georgia holidays) prior to any construction, tie–ins, or testing of water or wastewater utilities. No work shall commence until contact is made with the project's AUD inspections representative.
7. Disturbance of any Survey Markers or Monuments requires re–establishment by a Professional Land Surveyor at the Contractor's expense. Documentation of the work must be presented to the AUD Engineering Division before the project is completed.
8. Any discrepancies, errors, or omissions discovered on plans or in the specifications should be noted on the contract proposal and does not relieve the Contractor of responsibility to correct the same.
9. All concrete shall and have minimum 28–day strength of 3,000 psi.
10. If a conflict arises between the new work and the existing water and sewer utilities during the course of construction, it will be the responsibility of the Owner/Developer/Contractor, at their expense and not AUD's, to correct the discrepancy as directed by a representative of AUD.
11. All existing Augusta road structures such as storm manholes, inlet boxes, etc., shall be maintained and or adjusted as is appropriate to ensure proper use.
12. All materials deemed salvageable by AUD are the property of Augusta, Georgia and will be removed and stored on site in a secured area determined during construction by the contractor, and Augusta Utilities Department.
13. For private developments, AUD shall not be responsible for pavement patching and/or replacement and the site restoration whenever AUD performs repair, replacement or installation work.
14. If AUD must repair or replace utilities on the work site, then the responsible party shall arrange for access by AUD as required to repair or replace the utility.
15. A minimum (20) Utility Easement centered over all water lines and a minimum 20' Utility Easement centered over all wastewater lines shall be deeded to Augusta, Georgia at completion and acceptance of said lines. Easements containing both water and sewer shall be 10 from the center of the utility to outside of the easement, while maintaining minimum separation requirements as listed in AUD's Water and Sanitary Sewer Systems–Design Standards, Construction Specifications, and Details.
16. A right–of–way encroachment permit shall be obtained from AED prior to commencing any work within an Augusta, Georgia right–of–way. The utilities encroachment permit must be applied for through AUD.
17. "A Georgia DOT right–of–way encroachment permit may be required for work on temporary or permanent state routes. Contact AUD Engineering Division to determine if a permit is required. The utilities encroachment permit must be applied for through AUD. Conditions of the permit must be complied with fully. The permit must be in hand a minimum 24 hours notice given to GDOT prior to beginning any work in the GDOT right–of–way."
18. Traffic control devices shall meet and be installed in accordance with the Manual on Uniform Traffic Control Devices (MUTCD). Also, a traffic control/detour plan shall be submitted to the City Engineer for approval as noted in the Augusta Richmond County, Georgia–Rights of Way Encroachment Guidelines.
19. The Contractor and the AUD representative shall have a copy of the Augusta Richmond County, Georgia–Rights of Way Encroachment Guidelines Development Document #15, adopted June 1999, amended August 2000, amended June 2021. The requirements set forth in this document shall be adhered to at all times.
20. Clearing and grubbing shall be at the Contractor's discretion, subject to AUD approval, to facilitate construction.
21. The implementation of best management practices (BMP's) for erosion and sediment control in accordance with the Manual for Erosion and Sediment Control in Georgia shall be installed and maintained at all times.

AUD WATER NOTES

1. An AUD inspector shall be present or section left uncovered until inspected by the inspector when a tap, tie–in occurs, restrained joints are installed, bends, fittings, fire hydrants, valves and pressure testing. Contractor is to provide at least 48 hour notice (two working days) in advance during regular working hours (8:30 am to 5:00 pm, Monday–Friday, excluding Augusta, Georgia holidays).
2. All PVC water lines shall be a minimum DR–18 PVC meeting AWWA C–900 and/or C–905, unless otherwise shown or specified.
3. All DIP water lines shall be class 350 for lines 16" diameter and smaller, and class 300 for lines 18" diameter through 24" diameter, unless otherwise specified or shown.
4. All new water lines shall be installed per pipeline manufacturer recommendations.
5. All water lines shall be tested, chlorinated, and checked for bacteria per AUD's Water & Sanitary Sewer Systems–Design Standards, Construction Specifications and Details.
6. Copper Wire (12–gauge, Insulated, Single Strand) shall be attached along top of all buried water lines, wrapped around service corporations and brought up on the outside of all valve boxes, stubbing out at the top to facilitate traceability. This wire shall be properly spliced with a water proof connector for electrical connectivity, and then insulated to protect against corrosion. (Reference AUD Details when applicable).
7. Detector Tape shall be 4 inches wide and placed 2 feet above pipe. Add similar device to conduit per AUD detail 3.6.
8. All water valves on the main lines, including hydrant laterals, shall be open–left if installed south of Gordon Highway (S.R. 10), or open–right if installed north of Gordon Highway.
9. The Contractor shall furnish, install, and maintain a meter box at the termination point of all water services. Meter boxes will in no way be placed under driveways. Meter boxes will preferably be located in the center of the lot and within 1 inside of the R/W, and maintained by the Contractor until such time the meter is installed.
10. Water services shall have minimum diameter of 1 inch (Reference AUD Details when applicable).
11. Any existing water service lines which are extensions off an existing water main to be abandoned discovered during construction shall be replaced. These new service lines are to tie into the new water main and be reconnected to the existing water meter.
12. All existing water services shall be extended and meter boxes relocated as required beyond the limits of construction. The services shall be connected to the new water main after said main has been sterilized, pressure tested and put into service. In the event that the service line is not active, a new water service will be required to be constructed.
13. All water meters shall be purchased from AUD Construction and Maintenance Division.
14. The Developer/Contractor shall locate water services and valves by etching a "W" for the water service and a "V" for a valve in the curb or in the pavement if no curb is available, and highlight the etching with blue paint per the APWA uniform color code. In the event that the valve is located behind the curb or pavement, invert the "V" marking so that it points to the valve outside the roadway.
15. Fire hydrants are to be located a minimum of one foot inside existing right–of–way with a 3 foot radius clearance.
16. Existing fire hydrants and meters that are removed shall be turned over to AUD.
17. Per AUD's Water & Sanitary Sewer Systems–Design Standards, Construction Specifications and Details:
   a. For backflow installations for non–residential development, a minimum "double–check" backflow–prevention device shall be installed on the customer's side of all services.
   b. Fire lines require a minimum "double detector" backflow device.
   c. For backflow installations for residential developments, a "dual check" backflow device shall be installed on the customer's side of the service line at the point of tie–in to the water meter.
   d. For some medium hazard to high hazard locations, a reduced pressure zone (RPZ) backflow device will be required.
18. Backflow devices shall be tested by a certified person within five (5) working days of installation and the results furnished to the AUD Back Flow Inspector within 10 working days of installation prior to any water use. AUD shall be notified prior to testing Contact the Augusta Utilities Back Flow Inspector at 706–722–1639.

AUD SEWER NOTES

1. An AUD inspector shall be present or section left uncovered until inspected by the inspector when a core, tap, tie–in occurs, manhole installed, and all required testing. Contractor is to provide at least 48 hour notice (two working days) in advance during regular working hours (8:30 am to 5:00 pm, Monday–Friday, excluding Augusta, Georgia holidays).
2. The Contractor is to verify the invert elevations (I.E.) of existing pipes prior to beginning construction.
3. Sewer force main shall be PVC DR–18 C–900 or C–905 as applicable or DIP class 350, epoxy lined.
4. All new sewer lines shall be installed per pipeline manufacturer requirements.
5. Copper Wire (12–gauge, Insulated, Single Strand) shall be attached along top of all buried sewer lines to facilitate traceability. The wire shall run along the top of the main and along individual service lines and brought up on the outside of all manholes, cleanouts, or other above ground features stubbing out at the top for locating purposes. This wire shall be properly spliced with a water proof connector for electrical connectivity, and then insulated to protect against corrosion. (Reference AUD Details when applicable).
6. Detector Tape shall be 4 inches wide and placed 2 feet above pipe add similar device to conduit per AUD detail 3.6.
7. All tie–ins to existing manholes shall be cored unless otherwise approved by AUD Inspector.
8. All manholes require "K or N Seal" or equal, rubber boots, unless otherwise approved by AUD Inspector.
9. No connection shall be made to existing wastewater lines until the proposed line is inspected and approved by AUD's Engineering Division.
10. All wastewater manholes shall have an elevation drop of 0.2 foot across the inlet and outlet inverts.
11. Wastewater clean–outs shall be installed at all individual services as shown in AUD–Details, and shall not be installed under driveways or any paved areas without prior approval from AUD.
12. Service lines to sanitary sewer main shall be bedded per these AUD Specifications and AUD Details.
13. Maximum sanitary sewer infiltration shall not exceed 100 GPD/inch of pipe diameter per mile.
14. The Contractor shall locate sanitary sewer services by etching an "S" in the curb or in the pavement if no curb is available, and highlight the etching with green paint per the APWA uniform color code.
15. Finished floor elevations of all proposed buildings shall be a minimum of five (5) feet above the invert elevation of the wastewater main or manhole at the point of tie–in. In instances where this is not possible, a backwater valve shall be installed in the sewer service.

SITE UTILITY NOTES

1. ALL FILL MATERIAL IS TO BE IN PLACE, AND COMPACTED BEFORE INSTALLATION OF PROPOSED UTILITIES.
2. CONTRACTOR SHALL NOTIFY THE UTILITY AUTHORITIES INSPECTORS 72 HOURS BEFORE CONNECTING TO ANY EXISTING LINE.
3. SANITARY SEWER PIPE SHALL BE AS FOLLOWS:
   4" SDR–35 ASTM D–3034
4. WATER LINE MATERIALS SHALL BE AS FOLLOWS (SEE AUD MINIMUM STANDARDS FOR ADDITIONAL INFORMATION):
   4.1. WATER SERVICE LINES (LESS THAN 4" IN SIZE):
      4.1.1. WATER SERVICE ALLOWABLE MATERIAL IS TYPE K SOFT COPPER AND SHALL BE SEAMLESS, AMERICAN MADE, AND CONFORM TO ASTM SPECIFICATIONS.
      4.1.2. HDPE CAN BE USED IN LIEU OF COPPER FOR WATER SERVICE PIPE MATERIAL IF THE LINE IS LONGER THAN 100–FEET FOR 1" SERVICE OR 60–FEET FOR 2–INCH SERVICES. HDPE PIPE SHALL BE COPPER TUBING SIZE (CTS) DR– 9 HDPE FOR 1–INCH WATER SERVICES AND IRON PIPE SIZE (IPS) DR– 9 HDPE FOR 2" WATER SERVICES
5. MINIMUM TRENCH WIDTH SHALL BE 2 FEET.
6. ALL WATER JOINTS SHALL BE PER AUGUSTA UTILITY DEPARTMENT CONSTRUCTION STANDARDS.
7. WATER AND SANITARY SHOULD BE KEPT TEN (10') APART (PARALLEL) OR WHEN CROSSING 18" APART (OUTSIDE EDGE OF PIPE TO OUTSIDE EDGE OF PIPE).
8. CONTRACTOR SHALL MAINTAIN A MINIMUM OF 4'–0" COVER ON ALL WATERLINES.
9. WHERE HORIZONTAL SEPARATIONS BETWEEN STORM, WATER, AND SEWER CANNOT BE MET, WATER AND SEWER LINES SHALL BE DIP, AND JOINTS STAGGERED SUCH THAT MAXIMUM SEPARATION EXISTS BETWEEN JOINTS AS APPROVED BY AUD. THE MINIMUM LENGTH OF DIP PIPE SHALL BE NO LESS THAN 10–FEET, BUT A FULL JOINT IS RECOMMENDED..
10. LINES UNDERGROUND SHALL BE INSTALLED, INSPECTED AND APPROVED BEFORE BACKFILLING.
11. TOPS OF EXISTING MANHOLES SHALL BE RAISED AS NECESSARY TO BE FLUSH WITH PROPOSED ELEVATIONS.
12. ALL CONCRETE FOR ENCASEMENTS SHALL HAVE A MINIMUM 28 DAY COMPRESSION STRENGTH AT 3000 P.S.I.
13. DRAWINGS DO NOT PURPORT TO SHOW ALL EXISTING UTILITIES.
14. EXISTING UTILITIES SHALL BE VERIFIED IN FIELD PRIOR TO INSTALLATION OF ANY NEW LINES.
15. REFER TO INTERIOR PLUMBING DRAWINGS FOR TIE–IN OF ALL UTILITIES.
16. CONTRACTOR IS RESPONSIBLE FOR COMPLYING TO THE SPECIFICATIONS OF THE LOCAL AUTHORITIES WITH REGARDS TO MATERIALS AND INSTALLATION OF THE WATER AND SEWER LINES.
17. ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODE AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO ANNOUNCED BUILDING POSSESSION AND THE FINAL CONNECTION OF SERVICE.
18. CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES FOR INSTALLATION REQUIREMENTS AND SPECIFICATIONS.
19. CONTRACTOR TO PROVIDE TRENCHING, CONDUIT, PULL WIRE AND BACKFILL FOR TELEPHONE AND ELECTRIC LINES.
20. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING THE EXACT LOCATION, SIZE, AND MATERIAL OF ANY EXISTING WATER OR SEWER FACILITY PROPOSED FOR CONNECTION OR USE BY THIS PROJECT. THE RELOCATION OF ANY WATER/SEWER FACILITY REQUIRED TO AVOID ANY PART OF THIS DEVELOPMENT IS THE RESPONSIBILITY OF THE DEVELOPER.
21. ALL CONSTRUCTION TO CONFORM TO APPLICABLE CITY SPECIFICATIONS AND IN ACCORDANCE WITH CITY ORDINANCES.
22. VAULTS THAT FALL WITHIN PAVED AREAS OR AREAS THAT ARE EXPOSED TO VEHICULAR TRAFFIC SHALL REQUIRE A TRAFFIC RATED COVER THAT IS CAPABLE OF HANDLING AN H20 TRAFFIC LOAD.

NOTICE TO GENERAL CONTRACTOR REGARDING UTILITY INSTALLATION:

THE INFORMATION SHOWN ON THESE PLANS RELATED TO THE EXISTING SUBSURFACE UTILITY LINES IS BASED ON FIELD RUN SURVEY BY CAROLINA LAND SURVEYING DATED 1/11/2024, AS–BUILT RECORDS AND/OR UTILITY COMPANY RECORDS AND IS CORRECT TO THE BEST KNOWLEDGE OF THE ENGINEER. HOWEVER, SINCE THE EXISTING SUBSURFACE FACILITIES HAVE NOT BEEN EXPOSED AND VERIFIED, THE INFORMATION PROVIDED IS NOT TO BE CONSIDERED EXACT OR ACCURATE. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING THE EXACT LOCATION, SIZE, MATERIAL AND INVERT ELEVATION AT THE PROPOSED TIE–IN POINT(S) OF THE EXISTING SUBSURFACE UTILITIES PRIOR TO ORDERING MATERIALS TO INSTALL THE PROPOSED UTILITIES. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER IF CONDITIONS IDENTIFIED IN THE FIELD ARE SUBSTANTIALLY DIFFERENT THAN THOSE SHOWN ON THE PLANS. IT IS STRONGLY RECOMMENDED THAT FIELD VERIFICATION OCCUR DURING THE INITIAL STAGES OF CONSTRUCTION AND PRIOR TO ORDERING OF MATERIALS. THE OWNER WILL NOT ACCEPT ANY CHANGE ORDERS ASSOCIATED WITH UNEXPECTED FIELD CONDITIONS THAT ARE NOT IDENTIFIED PRIOR TO ORDERING MATERIALS FOR THE PROPOSED RELOCATIONS. CONTRACTOR SHALL COORDINATE THE TIMING OF ALL UTILITY RELOCATIONS WITH THE RESPECTIVE UTILITY SERVICE PROVIDERS. LINES TO BE RELOCATED SHALL REMAIN OPERATIONAL AT ALL TIMES UP UNTIL THE NEW SERVICE LINE BECOMES ACTIVE. CONNECTIONS BETWEEN EXISTING AND RELOCATED LINES THAT REQUIRE TEMPORARY INTERRUPTION OF SERVICE SHALL BE PERFORMED ONLY AT LOW DEMAND TIMES WHICH MAY REQUIRE WORK TO BE PERFORMED AT NIGHT AND/OR ON WEEKENDS. CONTRACTOR SHALL INCLUDE ALL COSTS FOR SUCH WORK IN THE BASE BID.

0 20' 40'
Scale in feet

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Augusta GEORGIA RECREATION & PARKS
DELTA ENGINEERING
RAYMOND
SDC Sustainable Design Consultants, LLC

GEORGIA REGISTERED No. PE032668 PROFESSIONAL 4/3/2025 ENGINEER DONNA N. BLALOCK

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BIG OAK PARK
IMPROVEMENTS

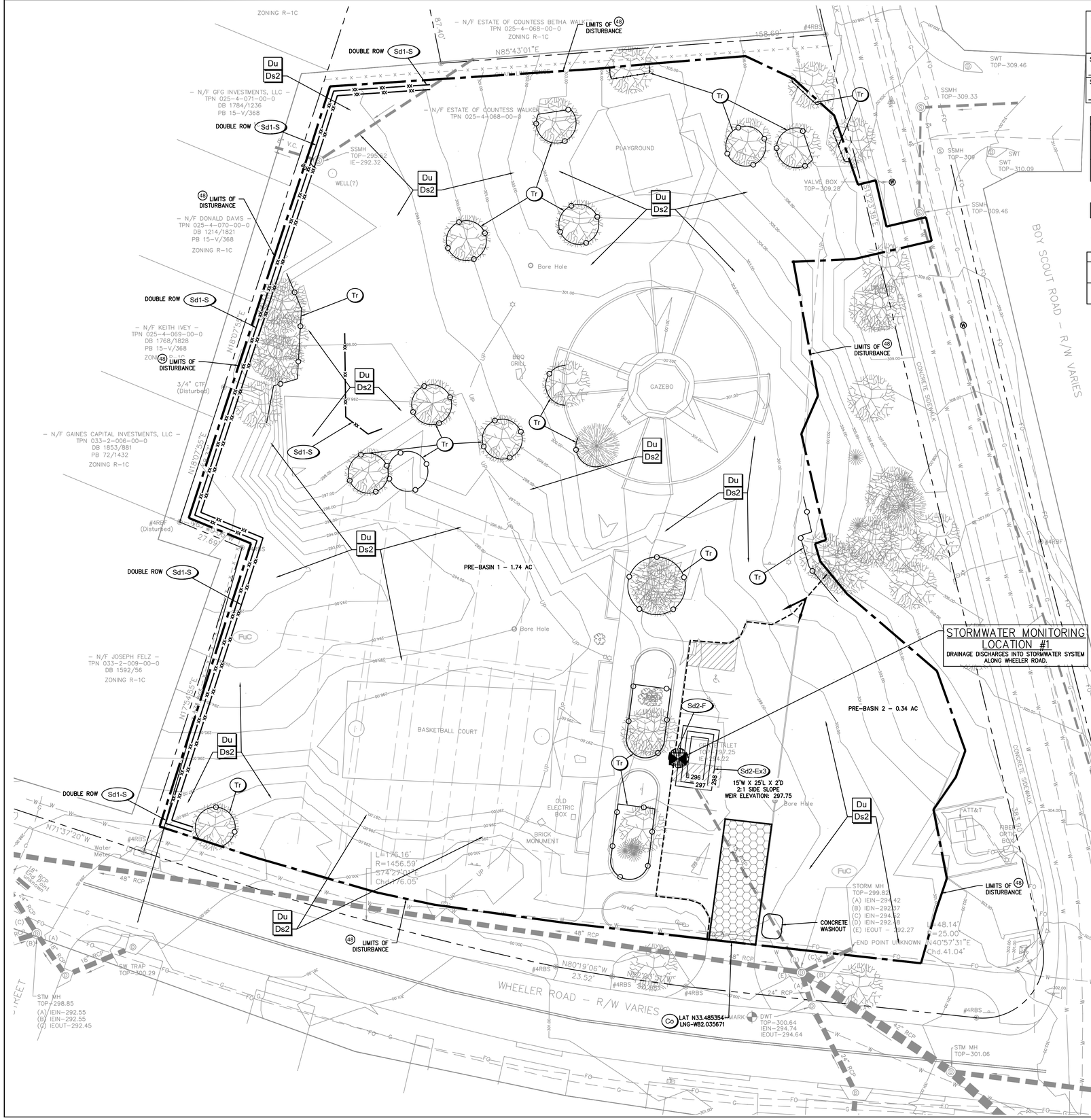
2803 WHEELER ROAD
AUGUSTA, GA 30909

No.	Submittal / Revision	Apr	By	Date
E	REVISED PERMIT SET	PG	JM	4-3-2025
D	REVISED PERMIT SET	PG	JM	8-5-2024
C	PERMIT SET	PG	JM	6-14-2024
B	DESIGN DEVELOPMENT	PG	JM	4-15-2024
A	SCHEMATIC DESIGN	PG	JM	2-23-2024

UTILITY PLAN

Designed By:	Drawn By:	Checked By:
DB	CS	DB
Issue Date:	Project No.:	Scale:
06/14/24	080083	AS SHOWN

Drawing No.:
C-301



OWNER: AUGUST PARKS AND RECREATION DEPARTMENT
NAME: ALPHONZA C. WILLIAMS
ADDRESS: 2027 LUMPKIN ROAD AUGUSTA, GA. 30906
PHONE: (706)796-4084

SITE OPERATOR/GENERAL CONTRACTOR:

SUPERINTENDENT:

(04) 24 HR LOCAL EMERGENCY CONTACT

ANTHONY E. (TONY) WILLIAMS SR.
INFRASTRUCTURE SYSTEMS MANAGEMENT
PHONE: (706)-877-1884
EMAIL: AEWILLIAMS@SMLLC-ENGR.COM

(CONTRACTOR'S NAME) (PHONE NUMBER)

NOTE: CONTRACTOR TO PROVIDE UPDATED INFORMATION ONCE CONTRACT IS AWARDED.

NOTE: SEE SURVEY FOR EXISTING LEGEND SYMBOLS

TEMPORARY SEEDING SCHEDULE (Ds2) (64)

SPECIES (MIXTURE OF)	RATE/ACRE	PLANTING DATES
SUDAN (SWEET OR TIFT)	60 LBS	APRIL1–SEPT 1
ANNUAL RYE GRASS	40 LBS	AUG 1–APRIL 15

NOTE: APPLY LIME AT THE RATE OF 1 TON/ACRE
REFER TO C-405 FOR FERTILIZER REQUIREMENTS

EROSION CONTROL LEGEND

- PROPERTY LINE
- LIMITS OF DISTURBANCE
- XXX CONTOUR ELEVATIONS
- STORM DRAIN
- xx SILT FENCE
- TREE PROTECTION FENCE
- LIMITS OF DRAINAGE SUB-BASIN

SOIL SERIES LEGEND (46)

FuC Fuquay-Urban Land Complex, 2-8% Slopes

PROVIDE TEMPORARY IRRIGATION OR WATERING, VIA WATER TRUCK, AS NEEDED TO ESTABLISH TEMPORARY AND PERMANENT VEGETATION UNTIL THE PERMANENT IRRIGATION SYSTEM IS FULLY FUNCTION OR UNTIL THE NOT IS SUBMITTED IF A PERMANENT IRRIGATION SYSTEM ISN'T PLANNED. AREAS NOT HAVING A PERMANENT IRRIGATION SYSTEM SHALL BE IRRIGATED OR WATERED UNTIL THE NOT HAS BEEN SUBMITTED AND ACCEPTED.

(xx) REPRESENTS NOTE/FEATURE WHICH CORRESPONDS WITH THE ES&PC PLAN CHECKLIST. SEE SHEET C-404 FOR ES&PC CHECKLIST.

ACREAGE SUMMARY (IN ACRES) (06)

SITE AREA	2.57 AC±
ON-SITE DISTURBED AREA	2.07 AC±
OFF-SITE DISTURBED AREA	0.01 AC±
TOTAL DISTURBED AREA (MUST MATCH NOI)	2.08 AC±
IMPERVIOUS AREA AT COMPLETION	0.90 AC±
PERVIOUS AREA AT COMPLETION	1.18 AC±

LOCATION MAP
NOT TO SCALE

(35) STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Co	CONSTRUCTION EXIT		Co	A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.
Sd1	SEDIMENT BARRIER		(TYPE "C")	A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, gravel, or a silt fence.
Sd2	INLET SEDIMENT TRAP			An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
Tr	TREE PROTECTION			To protect desirable trees from injury during construction activity.

(35) VEGETATIVE PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Ds2	DISTURBED AREA STABILIZATION (WITH TEMP SEEDING)		Ds2	Establishing a temporary vegetative cover with fast growing seedings on disturbed areas.
Ds4	DISTURBED AREA STABILIZATION (SODDING)		Ds4	A permanent vegetative cover using sods on highly erodable or critically eroded lands.
Du	DUST CONTROL ON DISTURBED AREAS		Du	Controlling surface and air movement of dust on construction site, roadways and similar sites.

TEMPORARY SILT FENCE CALCULATIONS (48) PRE-BASIN #1 (Sd1)

DRAINAGE AREA = 1.74 AC
DISTURBED AREA = 1.74 AC
SILT FENCE REQUIRED = 696 LF (100 LF/0.25 AC)
SILT FENCE PROVIDED = 813 LF

CONSERVATION COMMISSION NOTES

(20) EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

(19) THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND-DISTURBING ACTIVITIES.

ALL EROSION & SEDIMENT CONTROL MEASURES WILL BE CHECKED DAILY AND ANY DEFICIENCIES NOTED WILL BE CORRECTED BY THE END OF EACH DAY. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY AFTER ONSITE INSPECTION BY THE ISSUING AUTHORITY.

(21) ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABLIZED WITH MULCH OR TEMPORARY SEEDING.

REFER TO PLAN SHEET C-404 FOR FOR GENERAL NOTES, MAINTENANCE NOTES, SITE DATA & QUAD MAP

PHASE I

1. INSTALL STABILIZED CONSTRUCTION EXIT AND SWPPP INFORMATION SIGN.
2. INSTALL SILT FENCE ON THE SITE. (CLEAR ONLY THOSE AREAS NECESSARY TO INSTALL SILT FENCE).
3. PREPARE TEMPORARY PARKING AND STORAGE AREA.
4. GA 7 DAY BMP INSPECTION REQUEST
   THE GENERAL CONTRACTOR SHALL CONTACT CHA CONSULTING, INC. TO SCHEDULE AN INSPECTION OF THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMP'S WITHIN 7 DAYS AFTER INSTALLATION.
5. CONSTRUCT AND STABILIZE SEDIMENT BASIN(S) AND SEDIMENT TRAP(S) WITH APPROPRIATE OUTFALL STRUCTURES. (CLEAR ONLY THOSE AREAS NECESSARY TO INSTALL BASINS AND TRAPS.)
6. BEGIN CLEARING AND GRUBBING THE SITE ACCORDING TO THE DEMOLITION PLAN.

(36) N

0 20' 40'
Scale in feet (36)

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317 Tattnall Street
Savannah, GA 31401
912.721.6999 . www.chasolutions.com

Augusta GEORGIA RECREATION & PARKS

DELTA ENGINEERING

RAYMOND

SCD Sustainable Design Consultants, LLC

(62)

GEORGIA REGISTERED No. PE032668 PROFESSIONAL ENGINEER DONNA N. BLALOCK 4/3/2025

GSWCC# 12451

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR SHALL ATTACH TO THE PLAN OR DRAWING A NOTATION 'ALTERED BY' FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

BIG OAK PARK IMPROVEMENTS

2803 WHEELER ROAD
AUGUSTA, GA 30909

(08)

No.	Submittal / Revision	Apv	By	Date
E	REVISED PERMIT SET	PG	JM	4-3-2025
D	REVISED PERMIT SET	PG	JM	8-5-2024
C	PERMIT SET	PG	JM	6-14-2024
B	DESIGN DEVELOPMENT	PG	JM	4-15-2024
A	SCHEMATIC DESIGN	PG	JM	2-23-2024

PHASE I EROSION SEDIMENTATION & POLLUTION CONTROL PLAN

Designed By:	Drawn By:	Checked By:
DB	CS	DB
Issue Date:	Project No.:	Scale:
06/14/24	080083	AS SHOWN

(08)

Drawing No.:

C-401

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Savannah, GA 31401
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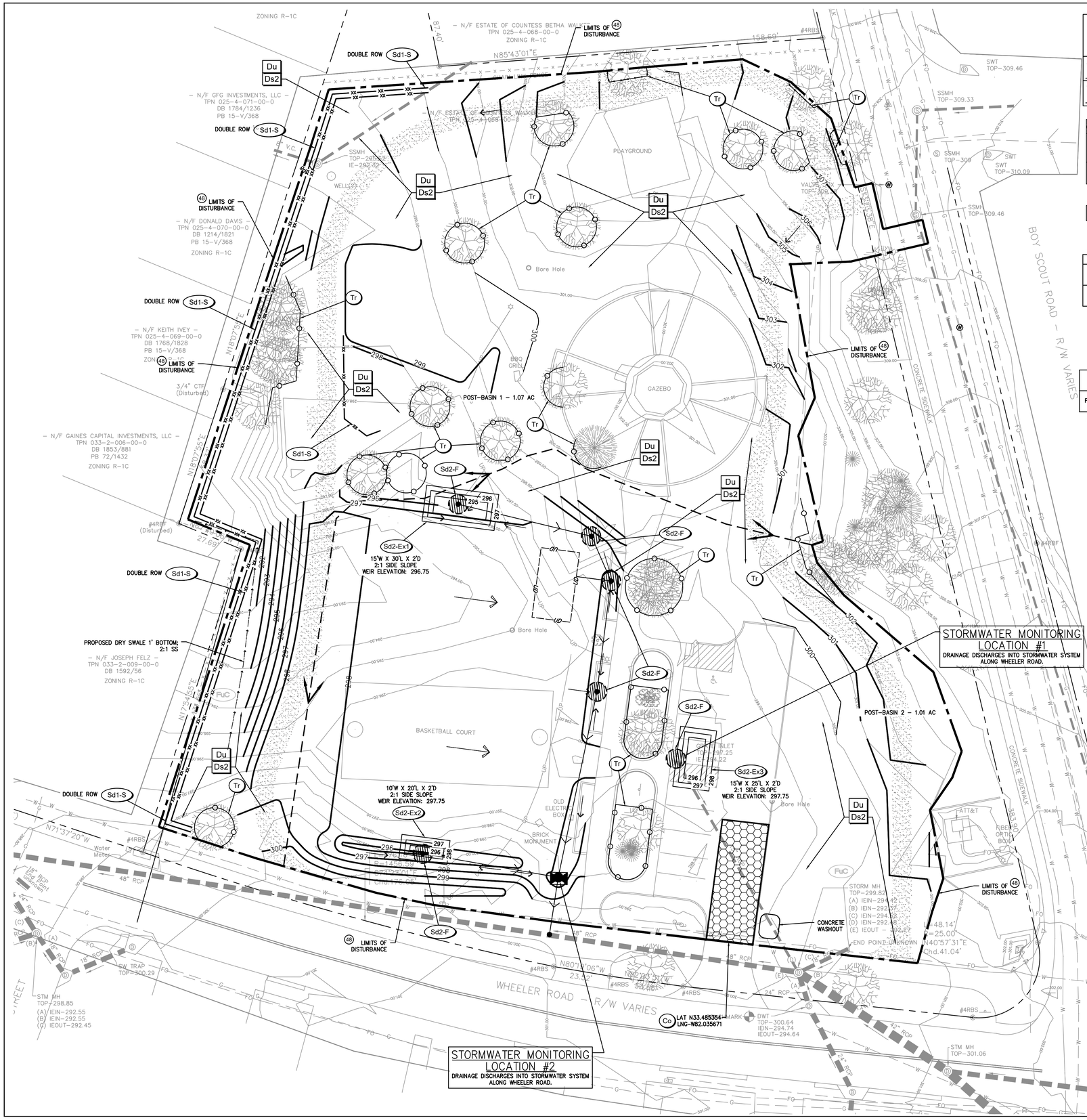
Augusta GEORGIA RECREATION & PARKS

DELTA ENGINEERING

RAYMOND

Sustainable Design Consultants, LLC



OWNER: AUGUST PARKS AND RECREATION DEPARTMENT
NAME: ALPHONZA C. WILLIAMS
ADDRESS: 2027 LUMPKIN ROAD AUGUSTA, GA. 30906
PHONE: (706)796-4084

SITE OPERATOR/GENERAL CONTRACTOR: _____

SUPERINTENDENT: _____

(34) 24 HR LOCAL EMERGENCY CONTACT

ANTHONY E. (TONY) WILLIAMS SR.
INFRASTRUCTURE SYSTEMS MANAGEMENT
PHONE: (706)-877-1884
EMAIL: AEWILLIAMS@SMLLC-ENGR.COM

(CONTRACTOR'S NAME) (PHONE NUMBER)

NOTE: CONTRACTOR TO PROVIDE UPDATED INFORMATION ONCE CONTRACT IS AWARDED.

NOTE: SEE SURVEY FOR EXISTING LEGEND SYMBOLS

TEMPORARY SEEDING SCHEDULE (Ds2) (54)

SPECIES (MIXTURE OF)	RATE/ACRE	PLANTING DATES
SUDAN (SWEET OR TIFT)	60 LBS	APRIL1–SEPT 1
ANNUAL RYE GRASS	40 LBS	AUG 1–APRIL 15

NOTE: APPLY LIME AT THE RATE OF 1 TON/ACRE
REFER TO C-405 FOR FERTILIZER REQUIREMENTS

SOD PLANTING AND FERTILIZATION REQUIREMENTS (Ds4) (54)

SPECIES	FERTILIZER (N–P–K)	RATE (lbs/AC)	NITROGEN TOP DRESSING RATE (lbs/AC)
FESCUE GRASS	4–1–2	400	50–100

NOTE: APPLY LIME AT THE RATE OF 400 lbs/AC

EROSION CONTROL LEGEND

- PROPERTY LINE
- LIMITS OF DISTURBANCE
- XXX CONTOUR ELEVATIONS
- STORM DRAIN
- xx SILT FENCE
- TREE PROTECTION FENCE
- LIMITS OF DRAINAGE SUB–BASIN

SOIL SERIES LEGEND

FuC Fuquay–Urban Land Complex, 2–8% Slopes

LOCATION MAP
NOT TO SCALE

(35) STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Co	CONSTRUCTION EXIT		Co	A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.
Sd1	SEDIMENT BARRIER		Sd1 (TYPE "C")	A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, gravel, or a silt fence.
Sd2	INLET SEDIMENT TRAP			An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
Tr	TREE PROTECTION			To protect desirable trees from injury during construction activity.

(35) VEGETATIVE PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Ds2	DISTURBED AREA STABILIZATION (WITH TEMP SEEDING)		Ds2	Establishing a temporary vegetative cover with fast growing seedings on disturbed areas.
Ds4	DISTURBED AREA STABILIZATION (SODDING)		Ds4	A permanent vegetative cover using sods on highly erodable or critically eroded lands.
Du	DUST CONTROL ON DISTURBED AREAS		Du	Controlling surface and air movement of dust on construction site, roadways and similar sites.

(48) TEMPORARY SILT FENCE CALCULATIONS POST-BASIN #1 (Sd1)

DRAINAGE AREA = 1.07 AC
DISTURBED AREA = 1.07 AC
SILT FENCE REQUIRED = 428 LF (100 LF/0.25 AC)
SILT FENCE PROVIDED = 813 LF

(36) ACREAGE SUMMARY (IN ACRES)

SITE AREA	2.57 AC±
ON–SITE DISTURBED AREA	2.07 AC±
OFF–SITE DISTURBED AREA	0.01 AC±
TOTAL DISTURBED AREA (MUST MATCH NOI)	2.08 AC±
IMPERVIOUS AREA AT COMPLETION	0.90 AC±
PERVIOUS AREA AT COMPLETION	1.18 AC±

(46) PROVIDE TEMPORARY IRRIGATION OR WATERING, VIA WATER TRUCK, AS NEEDED TO ESTABLISH TEMPORARY AND PERMANENT VEGETATION UNTIL THE PERMANENT IRRIGATION SYSTEM IS FULLY FUNCTION OR UNTIL THE NOT IS SUBMITTED IF A PERMANENT IRRIGATION SYSTEM ISN'T PLANNED. AREAS NOT HAVING A PERMANENT IRRIGATION SYSTEM SHALL BE IRRIGATED OR WATERED UNTIL THE NOT HAS BEEN SUBMITTED AND ACCEPTED.

(xx) REPRESENTS NOTE/FEATURE WHICH CORRESPONDS WITH THE ES&PC PLAN CHECKLIST. SEE SHEET C-404 FOR ES&PC CHECKLIST.

CONSERVATION COMMISSION NOTES

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(21) ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABLIZED WITH MULCH OR TEMPORARY SEEDING.

REFER TO PLAN SHEET C-404 FOR FOR GENERAL NOTES, MAINTENANCE NOTES, SITE DATA & QUAD MAP

PHASE II

1. BEGIN GRADING OF THE SITE AND PREPPING FOR THE BUILDING PAD.
2. TEMPORARY SEED, THROUGHOUT CONSTRUCTION, DENUDED AREAS THAT WILL BE INACTIVE FOR 14 DAYS OR MORE.
3. INSTALL UTILITIES, UNDERDRAINS, STORM SEWERS, CURBS AND GUTTERS.
4. INSTALL RIP–RAP AROUND OUTLET STRUCTURES AS EACH OUTLET STRUCTURE IS INSTALLED.
5. INSTALL INLET PROTECTION AT ALL STORM SEWER STRUCTURES AS EACH INLET STRUCTURE IS INSTALLED.
6. PERMANENTLY STABILIZE AREAS TO BE VEGETATED AS THEY ARE BROUGHT TO FINAL GRADE.
7. PREPARE SITE FOR PAVING.

N (36)

0 20' 40'
Scale in feet (36)

GEORGIA REGISTERED No. PE032668 PROFESSIONAL 5/9/2025 ENGINEER DONNA N. BLALOCK

GSWCC# 12451

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BIG OAK PARK IMPROVEMENTS

2803 WHEELER ROAD
AUGUSTA, GA 30909

No.	Submittal / Revision	Apv	By	Date
F	REVISED PERMIT SET	PG	JM	5-9-2025
E	REVISED PERMIT SET	PG	JM	4-3-2025
D	REVISED PERMIT SET	PG	JM	8-5-2024
C	PERMIT SET	PG	JM	6-14-2024
B	DESIGN DEVELOPMENT	PG	JM	4-15-2024
A	SCHEMATIC DESIGN	PG	JM	2-23-2024

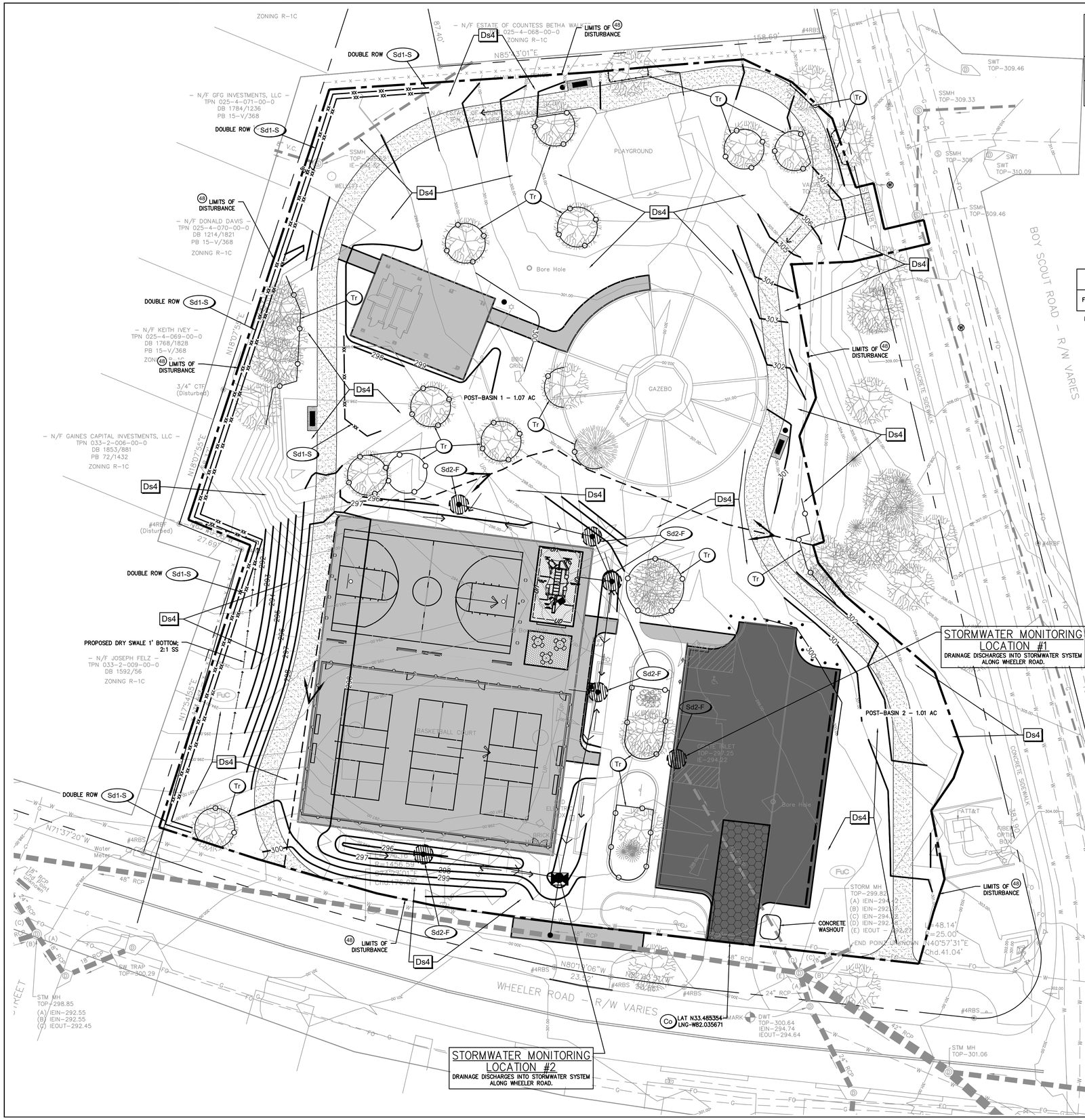
(08)

PHASE II EROSION SEDIMENTATION & POLLUTION CONTROL PLAN

Designed By:	Drawn By:	Checked By:
DB	CS	DB
Issue Date:	Project No.:	Scale:
06/14/24	080083	AS SHOWN

(08)

Drawing No.:
C-402



EROSION CONTROL LEGEND

- PROPERTY LINE
- LIMITS OF DISTURBANCE
- XXX — CONTOUR ELEVATIONS
- STORM DRAIN
- xx — SILT FENCE
- TREE PROTECTION FENCE
- LIMITS OF DRAINAGE SUB-BASIN

SOIL SERIES LEGEND (49)

FuC — Fuquay-Urban Land Complex, 2–8% Slopes

OWNER: AUGUST PARKS AND RECREATION DEPARTMENT
NAME: ALPHONZA C. WILLIAMS
ADDRESS: 2027 LUMPKIN ROAD AUGUSTA, GA. 30906
PHONE: (706)796-4084

SITE OPERATOR/GENERAL CONTRACTOR:

SUPERINTENDENT:

(04) 24 HR LOCAL EMERGENCY CONTACT
ANTHONY E. (TONY) WILLIAMS SR.
INFRASTRUCTURE SYSTEMS MANAGEMENT
PHONE: (706)-877-1884
EMAIL: AEWILLIAMS@SMLLC-ENGR.COM

(CONTRACTOR'S NAME) (PHONE NUMBER)

NOTE: CONTRACTOR TO PROVIDE UPDATED INFORMATION ONCE CONTRACT IS AWARDED.

NOTE: SEE SURVEY FOR EXISTING LEGEND SYMBOLS

SOD PLANTING AND FERTILIZATION REQUIREMENTS (Ds4) (54)

SPECIES	FERTILIZER (N–P–K)	RATE (lbs/AC)	NITROGEN TOP DRESSING RATE (lbs/AC)
FESCUE GRASS	4–1–2	400	50–100

NOTE: APPLY LIME AT THE RATE OF 400 lbs/AC

LOCATION MAP
NOT TO SCALE

(35) STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Co	CONSTRUCTION EXIT		Co	A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.
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Tr	TREE PROTECTION			To protect desirable trees from injury during construction activity.

(35) VEGETATIVE PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
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Du	DUST CONTROL ON DISTURBED AREAS		Du	Controlling surface and air movement of dust on construction site, roadways and similar sites.

(49) TEMPORARY SILT FENCE CALCULATIONS — POST-BASIN #1 (Sd1)

DRAINAGE AREA = 1.07 AC
DISTURBED AREA = 1.07 AC
SILT FENCE REQUIRED = 428 LF (100 LF/0.25 AC)
SILT FENCE PROVIDED = 813 LF

(06) ACREAGE SUMMARY (IN ACRES)

SITE AREA		2.57 AC±
ON-SITE DISTURBED AREA		2.07 AC±
OFF-SITE DISTURBED AREA		0.01 AC±
TOTAL DISTURBED AREA	(MUST MATCH NOI)	2.08 AC±
IMPERVIOUS AREA AT COMPLETION		0.90 AC±
PERVIOUS AREA AT COMPLETION		1.18 AC±

(49) PROVIDE TEMPORARY IRRIGATION OR WATERING, VIA WATER TRUCK, AS NEEDED TO ESTABLISH TEMPORARY AND PERMANENT VEGETATION UNTIL THE PERMANENT IRRIGATION SYSTEM IS FULLY FUNCTION OR UNTIL THE NOT IS SUBMITTED IF A PERMANENT IRRIGATION SYSTEM ISN'T PLANNED. AREAS NOT HAVING A PERMANENT IRRIGATION SYSTEM SHALL BE IRRIGATED OR WATERED UNTIL THE NOT HAS BEEN SUBMITTED AND ACCEPTED.

(XX) REPRESENTS NOTE/FEATURE WHICH CORRESPONDS WITH THE ES&PC PLAN CHECKLIST. SEE SHEET C-404 FOR ES&PC CHECKLIST.

CONSERVATION COMMISSION NOTES

(20) EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

(19) THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND-DISTURBING ACTIVITIES.

ALL EROSION & SEDIMENT CONTROL MEASURES WILL BE CHECKED DAILY AND ANY DEFICIENCIES NOTED WILL BE CORRECTED BY THE END OF EACH DAY. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY AFTER ONSITE INSPECTION BY THE ISSUING AUTHORITY.

(21) ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABLIZED WITH MULCH OR TEMPORARY SEEDING.

REFER TO PLAN SHEET C-404 FOR FOR GENERAL NOTES, MAINTENANCE NOTES, SITE DATA & QUAD MAP

PHASE III

1. PAVE SITE.
2. INSTALL APPROPRIATE INLET PROTECTION DEVICES FOR PAVED AREAS AS WORK PROGRESSES.
3. PERMANENTLY STABILIZE AREAS TO BE VEGETATED AS THEY ARE BROUGHT TO FINAL GRADE.
4. COMPLETE OFF SITE ROADWAY WORK AND ASSOCIATED UNDERGROUND UTILITIES INSTALLING BMP'S AS SHOWN.
5. COMPLETE GRADING AND INSTALLATION OF PERMANENT STABILIZATION OVER ALL AREAS.

(36) N

0 20' 40'
Scale in feet (36)

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317 Tattnall Street
Savannah, GA 31401
912.721.6999 . www.chasolutions.com

Augusta GEORGIA RECREATION & PARKS
DELTA ENGINEERING
RAYMOND
SDC Sustainable Design Consultants, LLC

GEORGIA REGISTERED No. PE032668 PROFESSIONAL ENGINEER DONNA N. BLALOCK 5/9/2025

GSWCC# 12451

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BIG OAK PARK IMPROVEMENTS

2803 WHEELER ROAD
AUGUSTA, GA 30909

No.	Submittal / Revision	Apv	By	Date
F	REVISED PERMIT SET	PG	JM	5-9-2025
E	REVISED PERMIT SET	PG	JM	4-3-2025
D	REVISED PERMIT SET	PG	JM	8-5-2024
C	PERMIT SET	PG	JM	6-14-2024
B	DESIGN DEVELOPMENT	PG	JM	4-15-2024
A	SCHEMATIC DESIGN	PG	JM	2-23-2024

(08)

PHASE III EROSION SEDIMENTATION & POLLUTION CONTROL PLAN

Designed By:	Drawn By:	Checked By:
DB	CS	DB
Issue Date:	Project No.:	Scale:
06/14/24	080083	AS SHOWN

(08)

Drawing No.:
C-403

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
STAND ALONE CONSTRUCTION PROJECTS
SWCD:_____ Region 3

Project Name: Big Oak Park **Address: 2803 Boy Scout Road Augusta, GA 30909**
Local Issuing Authority: City of Augusta, Ga **Date on Plans:_____** 7/3/2024
Name & Email of person filling out checklist: Caleb Shearer, Cshearer@chasolutions.com

Plan Page #	Included Y/N	TO BE SHOWN ON ES&PC PLAN
C-404	Y	1 The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1 of the year in which the land-disturbing activity was permitted. (The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed)
C401-C404	Y	2 Level II certification number issued by the Commission, signature and seal of the certified design professional. (Signature, seal and Level II number must be on each sheet pertaining to ES&PC plan or the Plan will not be reviewed)
C401-C404	Y	3 Limits of disturbance shall be no greater than 50 acres at any one time without prior written authorization from the GAEPD District Office. If GAEPD approves the request to disturb 50 acres or more at any one time, the Plan must include at least 4 of the BMPs listed in Appendix 1 of this checklist and the GAEPD approval letter. * (A copy of the written approval by GAEPD must be attached to the plan for the Plan to be reviewed.)
C401-C404	Y	4 The name and phone number of the 24-hour contact responsible for erosion, sedimentation and pollution controls.
C401-C404	Y	5 Provide the name, address, email address, and phone number of primary permittee.
C401-C404	Y	6 Note total and disturbed acreages of the project or phase under construction.
C401-C404	Y	7 Provide the GPS location of the construction exit for the site. Give the Latitude and Longitude in decimal degrees.
C401-C404	Y	8 Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
C404	Y	9 Description of the nature of construction activity and existing site conditions.
C401-C403	Y	10 Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
C404	Y	11 Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, marshlands, etc. which may be affected.
C404	Y	12 Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on **Part IV page 19** of the permit.
C404	Y	13 Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on **Part IV page 19** of the permit
C404	Y	14 Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements and perimeter control BMPs within 7 days after installation." in accordance with **Part IV.A.5 page 25** of the permit. *
C405	Y	15 Clearly note the statement that "Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wrested vegetation or within 25-feet of the coastal marshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary variances and permits."
N/A	N/A	16 Provide a description of any buffer encroachments and indicate whether a buffer variance is required.
C405	Y	17 Clearly note the statement that "Amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional." *
C405	Y	18 Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a Section 404 permit." *
C405	Y	19 Clearly note statement that "The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities."
C405	Y	20 Clearly note statement that "Erosion control measures will be maintained at all times. If full implementation of the approved Plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source."
C405	Y	21 Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."
N/A	N/A	22 Any construction activity which discharges storm water into an Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as, any portion of a Biota Impaired Stream Segment must comply with Part III. C. of the permit. Include the completed Appendix 1 listing all the BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment. *
N/A	N/A	23 If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in Item 22 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan. *
C401-C403	Y	24 BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout of the drum at the construction site is prohibited. *
C404	Y	25 Provide BMPs for the remediation of all petroleum spills and leaks.
C404	Y	26 Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed. *
C404	Y	27 Description of practices to provide cover for building materials and building products on site. *
C401-C403	Y	28 Description of the practices that will be used to reduce the pollutants in storm water discharges. *
C405	Y	29 Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization).
C404	Y	30 Provide complete requirements of Inspections and record keeping by the primary permittee. *
C404	Y	31 Provide complete requirements of Sampling Frequency and Reporting of sampling results. *
C404	Y	32 Provide complete details for Retention of Records as per Part IV.F. of the permit. *
C404	Y	33 Description of analytical methods to be used to collect and analyze the samples from each location. *
C404	Y	34 Appendix B rationale for NTU values at all outfall sampling points where applicable. *
C401-C403	Y	35 Delineate all sampling locations, perennial and intermittent streams and other water bodies into which storm water is discharged. *
C401-C403	Y	36 A description of appropriate controls and measures that will be implemented at the construction site including: (1) initial sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final BMPs. For construction sites where there will be no mass grading and the initial perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the Plan may combine all of the BMPs into a single phase. *
C401-C403	Y	37 Graphic scale and North arrow.
C401-C403	Y	38 Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following:

Map Scale	Ground Slope	Contour Intervals, ft
1 inch = 100ft or larger scale	Flat 0 - 2%	0.5 or 1
	Rolling 2 - 8%	1 or 2
	Steep 8% +	2,5 or 10

N/A	N/A	39 Use of alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional (unless disapproved by GAEPD or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at www.gaswcc.georgia.gov.
N/A	N/A	40 Use of alternative BMP for application to the Equivalent BMP List. Please refer to Appendix A-2 of the Manual for Erosion & Sediment Control in Georgia 2016 Edition. *
N/A	N/A	41 Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to state waters and any additional buffers required by the Local Issuing Authority. Clearly note and delineate all areas of impact.
N/A	N/A	42 Delineation of on-site wetlands and all state waters located on and within 200 feet of the project site.
C401-C403	Y	43 Delineation and acreage of contributing drainage basins on the project site.
ATTACHED	Y	44 Provide hydrology study and maps of drainage basins for both the pre- and post-developed conditions. *
C404	Y	45 An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed.
C401-C403	Y	46 Storm drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points.
C401-C403	Y	47 Soil series for the project site and their delineation.
C401-C403	Y	48 The limits of disturbance for each phase of construction.
C401-C403	Y	49 Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written justification explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the Plan for each common drainage location in which a sediment basin is not provided. A written justification as to why 67 cubic yards of storage is not attainable must also be given. Worksheets from the Manual included for structural BMPs and all calculations used by the storage design professional to obtain the required sediment when using equivalent controls. When discharging from sediment basins and impoundments, permittees are required to utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from the surface are not feasible, a written justification explaining this decision must be included in the Plan.
C401-C403	Y	50 Locaflon of Best Management Practices that are consistent with and no less stringent than the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual, Chapter 6, with legend.
C-406-C407	Y	51 Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia.
C401-C403	Y	52 Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of the year that seeding will take place and for the appropriate geographic region of Georgia.

* If using this checklist for a project that is less than 1 acre and not part of a common development but within 200 ft of a perennial stream, the * checklist items would be N/A.

Effective January 1, 2024

XX REPRESENTS NOTE/FEATURE WHICH CORRESPONDS WITH THE ES&PC PLAN CHECKLIST

SITE DESCRIPTION
DEVELOPER: AUGUSTA PARKS AND RECREATION DEPARTMENT
NAME: ALPHONZA C. WILLIAMS
ADDRESS: 2027 LUMPKIN ROAD AUGUSTA, GA 30906
24 HOUR CONTACT: ANTHONY E. WILLIAMS SR.
TELEPHONE: (706)-877-1884

(09) PROJECT DESCRIPTION
THIS PROJECT CONSISTS OF THE CONSTRUCTION OF PICKLEBALL COURTS, A BASKETBALL COURT, AN ASPHALT PAVED SURFACE LOT, A FITNESS STATION AREA, AND A CONCRETE SHELTER WITH A PEDESTRIAN SIDEWALK AROUND THE PERIMETER OF THE PARK. THIS PROJECT WILL ALSO CONSIST OF ASSOCIATED STORMWATER AND UTILITY IMPROVEMENTS FOR THE SITE. THIS SITE IS LOCATED IN A CURRENTLY DEVELOPED PARK.

ZONING
THE PROPOSED DEVELOPMENT IS ZONED R-1C (ONE-FAMILY RESIDENTIAL) ZONE.

EARTHWORK
THE VOLUME OF CUT IS 416 CY.
THE VOLUME OF FILL IS 1639 CY.
* EARTHWORK NUMBERS ARE PROVIDED PER THE STATE'S STORMWATER PERMIT AND SHOULD NOT BE USED FOR BIDDING PURPOSES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PERFORM HIS/HER OWN QUANTITY TAKE OFF FOR BIDDING PURPOSES.

ADJACENT AREA INFORMATION AND EXISTING CONDITIONS
THIS SITE IS LOCATED IN AN EXISTING RECREATIONAL PARK. PRESENTLY IT IS DEVELOPED. THE SITE IS BOUNDED ON THE NORTH BY RESIDENTIAL PROPERTIES, TO THE SOUTH BY WHEELER ROAD, TO THE EAST BY BOY SCOUT ROAD, AND TO THE WEST BY RESIDENTIAL PROPERTY.

FLOOD ZONE STATEMENT
THE SURVEYOR CERTIFIES THAT ACCORDANT TO FLOOD INSURANCE RATE MAP #13245C0110G DATED 11/15/2019 THIS SITE LIES IN AN OF MINIMAL FLOOD HAZARD (ZONE X).

EXISTING EROSION CONTROL PROBLEMS
NO EROSION CONTROL PROBLEMS EXIST ON SITE.

SITE AREA = 2.57 ACRES
DISTURBED AREA = 2.08 ACRES
AREA TO BE PAVED = 0.90 ACRES
AREA TO BE VEGETATED = 1.18 ACRES
AREA TO BE ROOFED = 1,800 SF

(47) SOIL TYPES
THE NRCS SOIL TYPE IS AS FOLLOWS:
FuC FURQUAY-URBAN LAND COMPLEX
2%-8% SLOPES

SOIL DISTURBING ACTIVITIES DESCRIPTION
INSTALLING A STABILIZED CONSTRUCTION EXIT, PERIMETER AND OTHER EROSION AND SEDIMENT CONTROLS, EXCAVATION OF THE SEDIMENTTRAP, CLEARING AND GRUBBING, GRADING AND EXCAVATION FOR THE STORM SEWER, UTILITIES AND BUILDING FOUNDATIONS, CONSTRUCTION OF DRIVEWAYS, SIDEWALKS AND PARKING AREAS. PREPARATION FOR FINAL PLANTING AND SEEDING AND COMPLETION OF ON-SITE STABILIZATION.

(45) RUNOFF COEFFICIENT
THE PRE_DEVELOPMENT RUNOFF RATE FOR PRE-DEVELOPED EXIST_2 IS 1.82 CFS, AND THE POST DEVELOPMENT RUNOFF RATE FOR POSE-DEVELOPED EXIST_2 IS 0.16 CFS. THE PRE-DEVELOPMENT RUNOFF RATE FOR PRE-DEVELOPED NZA-0060 IS 16.85 CFS, AND THE POST-DEVELOPMENT RUNOFF RATE FOR POST DEVELOPED NZA-0060 IS 13.50 CFS. POST DEVELOPMENT PEAK RUNOFF RATES WERE DESIGNED TO BE LESS THAN PRE-DEVELOPMENT PEAK RUNOFF RATES. CURVE NUMBERS WERE CALCULATED FOR EACH PRE-DEVELOPMENT AND POST-DEVELOPMENT BASIN. REFERENCE THE HYDROLOGY REPORT BY CHA CONSULTING, INC. DATED 6/14/2024 FOR ADDITIONAL INFORMATION.

INVENTORY FOR POLLUTION PREVENTION PLAN
THE FOLLOWING MATERIALS ARE EXPECTED ONSITE DURING CONSTRUCTION: CONCRETE, PRODUCTS, ASPHALT, PETROLEUM BASED FUELS AND LUBRICANTS FOR EQUIPMENT, TAR, METAL BUILDING MATERIALS, LUMBER, SHEETROCK, FLOOR COVERINGS, ELECTRICAL WIRE AND FIXTURES, PAINTS/STAINS/FINISHING TREATMENTS, CLEANING SOLVENTS, FERTILIZERS, HERBICIDES, CRUSHED STONE, PLASTIC AND METAL PIPES.

(28) SPILL PREVENTION
PRACTICES SUCH AS GOOD HOUSEKEEPING, PROPER HANDLING OF HAZARDOUS PRODUCTS AND PROPER SPILL CONTROL PRACTICES WILL BE FOLLOWED TO REDUCE THE RISK OF SPILLS AND SPILLS FROM DISCHARGING INTO STORM WATER RUNOFF.

(27) GOOD HOUSEKEEPING
1. QUANTITIES OF PRODUCTS STORED ONSITE WILL BE LIMITED TO THE AMOUNT NEEDED FOR THE JOB.
2. PRODUCTS AND MATERIALS WILL BE STORED IN A NEAT, ORDERLY MANNER IN APPROPRIATE CONTAINERS PROTECTED FROM RAINFALL WHERE POSSIBLE.
3. PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH MANUFACTURER LABELS LEGIBLE AND VISIBLE.
4. PRODUCT MIXING, DISPOSAL OF PRODUCTS, AND THE DISPOSAL OF PRODUCT CONTAINERS WILL BE ACCORDING TO THE MANUFACTURERS RECOMMENDATIONS.
5. THE CONTRACTOR WILL INSPECT SUCH MATERIALS TO ENSURE PROPER USE, STORAGE AND DISPOSAL.

BUILDING MATERIALS
FOR BUILDING MATERIALS, BUILDING PRODUCTS AND CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE AND OTHER MATERIALS PRESENT ON THE SITE, PROVIDE COVER (E.G. PLASTIC SHEETING, TEMPORARY ROOFS) TO MINIMIZE EXPOSURE. WHERE THESE ARE NOT FEASIBLE, MINIMIZATION OF EXPOSURE IS NOT REQUIRED IN CASES WHERE EXPOSURE TO PRECIPITATION AND TO STORMWATER WILL NOT RESULT IN A DISCHARGE OF POLLUTANTS, OR WHERE EXPOSURE OF A SPECIFIC MATERIAL OR PRODUCT POSES LITTLE RISK TO STORMWATER CONTAMINATION (SUCH AS FINAL PRODUCTS AND MATERIALS INTENDED FOR OUTDOOR USE).

(34) NTU VALUES
BASED ON A SITE AREA OF 1-10 ACRES AND A SURFACE WATER DRAINAGE AREA OF 0-4.99 SQ MI THE ALLOWABLE NTU VALUES OF THE SAMPLING IS 75 FOR THIS SITE.

(14) "THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPs WITHIN 7 DAYS AFTER INSTALLATION."

OWNER: AUGUSTA PARKS AND RECREATION DEPARTMENT
NAME: ALPHONZA C. WILLIAMS
ADDRESS: 2027 LUMPKIN ROAD AUGUSTA, GA. 30906
PHONE: (706)796-4084

SITE OPERATOR/GENERAL CONTRACTOR: _____

SUPERINTENDENT: _____

GEORGIA811 Utilities Protection Center, Inc
Know what's below. Call before you dig.

EROSION, SEDIMENTATION, AND POLLUTION CONTROL NARRATIVE

(25) PRODUCT SPECIFIC PRACTICES
PETROLEUM BASED PRODUCTS – CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ONSITE VEHICLE AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATER, NATURAL DRAINS AND STORM WATER DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT/MINIMIZE SITE CONTAMINATION. DISCHARGE OF OILS, FUELS AND LUBRICANTS IS PROHIBITED. PROPER DISPOSAL METHODS WILL BE COLLECTED IN A SUITABLE CONTAINER AND DISPOSED AS REQUIRED BY LOCAL AND STATE REGULATIONS. PAINTS/FINISHES/SOLVENTS – ALL PRODUCT WILL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCT WILL NOT BE DISCHARGED TO THE STORM WATER COLLECTION SYSTEM. EXCESS PRODUCT MATERIALS USED WITH THESE PRODUCTS AND PRODUCT CONTAINERS WILL BE DISPOSED OF ACCORDING TO MANUFACTURERS SPECIFICATIONS AND RECOMMENDATIONS. CONCRETE TRUCK WASHING – NO CONCRETE TRUCKS WILL BE ALLOWED TO BE WASHED OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ONSITE. FERTILIZER/HERBICIDES – THESE PRODUCTS WILL BE APPLIED AT RATES AND NOT EXCEED THE MANUFACTURERS SPECIFICATIONS OR ABOVE THE GUIDELINES SET FORTH IN THE CROP ESTABLISHMENT OR IN THE CGNEC MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. ANY STORAGE OF THESE MATERIALS WILL BE UNDER ROOF IN SEALED CONTAINERS. BUILDING MATERIALS – NO BUILDING OR CONSTRUCTION MATERIALS WILL BE BURIED OR DISPOSED OF ONSITE. ALL SUCH MATERIAL WILL BE DISPOSED OF IN PROPER WASTE DISPOSAL PROCEDURES.

(28) SPILL CLEANUP AND CONTROL PRACTICES
LOCAL, STATE AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND PROCEDURES WILL BE MADE AVAILABLE TO SITE PERSONNEL.
MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIALS AND EQUIPMENT IS DEVELOPED. THE SITE IS BOUNDED ON THE NORTH BY RESIDENTIAL PROPERTIES, TO THE SOUTH BY WHEELER ROAD, TO THE EAST BY BOY SCOUT ROAD, AND TO THE WEST BY RESIDENTIAL PROPERTY.

THE DISCHARGE OF HAZARDOUS SUBSTANCES OR OIL IN THE STORM WATER DISCHARGE(S) FROM A SITE SHALL BE PREVENTED. THE GENERAL PERMIT GAR100003 DOES NOT RELIEVE THE PERMITTEE OF THE REPORTING REQUIREMENTS OF GEORGIA'S OIL OR HAZARDOUS MATERIALS SPILLS OR RELEASES ACT (O.C.G.A. 12-14-2, ET SEQ.). 40 CFR PART 117 AND 40 CFR PART 302. WHERE A RELEASE CONTAINING A HAZARDOUS SUBSTANCE IN AN AMOUNT EQUAL OR IN EXCESS OF A REPORTABLE QUANTITY ESTABLISHED UNDER EITHER GEORGIA'S OIL OR HAZARDOUS MATERIAL SPILLS OR RELEASES ACT (O.C.G.A. 12-14-2, ET SEQ.), 40 CFR PART 117 OR 40 CFR PART 302 OCCURS DURING A 24 HOUR PERIOD, THE PERMITTEE IS REQUIRED TO NOTIFY EPD AT (404) 656-4863 OR (800) 241-4113 AND THE NATIONAL RESPONSE CENTER (NRC) AT (800) 424-8802 IN ACCORDANCE WITH THE REQUIREMENTS OF GEORGIA'S OIL OR HAZARDOUS MATERIAL SPILLS OR RELEASES ACT (O.C.G.A. 12-14-2, ET SEQ.), 40 CFR PART 117 AND 40 CFR PART 302 AS SOON AS HE/SHE HAS KNOWLEDGE OF THE DISCHARGE.

THE CONTRACTOR SHALL NOTIFY THE DESIGN PROFESSIONAL WHO PREPARED THIS PLAN IF MORE THAN 1320 GALLONS OF PETROLEUM IS STORED ONSITE (THIS INCLUDES CAPACITIES OF EQUIPMENTS OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 660 GALLONS. THE CONTRACTOR WILL NEED A SPILL PREVENTION CONTAINMENT AND COUNTERMEASURES PLAN PREPARED BY THAT LICENSED PROFESSIONAL.

THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND-DISTURBING ACTIVITIES.

EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

(14) INITIAL INSPECTION NOTIFICATION
THE CONTRACTOR SHALL NOTIFY CHA COMPANIES, INC. WITHIN 7 DAYS OF THE INSTALLATION OF INITIAL SEDIMENT STORAGE SO THAT AN INSPECTION OF THE EROSION & SEDIMENTATION FACILITIES CAN BE PERFORMED PURSUANT TO THE GEORGIA NPDES GENERAL PERMIT REQUIREMENTS.

STORMWATER POLLUTION PREVENTION PLAN (SWPPP)
THE MORE STRINGENT OF THESE PLANS, SPECIFICATIONS, LOCAL GOVERNMENT, AND THE NPDES GENERAL PERMIT NO. GAR 100003 SHALL BE FOLLOWED.

NON-STORMWATER DISCHARGES
THE FOLLOWING NON-STORMWATER DISCHARGES MAY OCCUR ON THIS SITE DURING CONSTRUCTION: FIRE FIGHTING ACTIVITIES, FIRE HYDRANT FLUSHING, POTABLE WATER SOURCES INCLUDING WATER LINE FLUSHING, IRRIGATION DRAINAGE, AIR CONDITIONING CONDENSATE, SPRINGS, UNCONTAMINATED GROUND WATER, AND/OR FOUNDATION/FOOTING DRAINS CARRYING UNCONTAMINATED FLOWS. ALL OTHER DISCHARGES OCCUR THE CONTRACTOR SHOULD NOTE THEM OR THEIR SOURCE.

(29) SEQUENCE OF MAJOR ACTIVITIES
SEE SHEET C-405 FOR ANTICIPATED ACTIVITY SCHEDULE.

(11) NAME OF RECEIVING WATERS
THE ENTIRE SITE FLOWS THEMSELVES WEST TOWARDS BASIN STREET OR INTO THE EXISTING STORMWATER SYSTEM ALONG WHEELER ROAD.

EROSION AND SEDIMENT CONTROLS
TEMPORARY AND PERMANENT STABILIZATION THROUGH VEGETATIVE BEST MANAGEMENT PRACTICES AND STRUCTURAL BEST MANAGEMENT PRACTICES WILL BE DESIGNED, INSTALLED AND MAINTAINED PER THE MANUAL OF EROSION AND SEDIMENT CONTROL IN GEORGIA. THE STABILIZATION MEASURES WILL PROTECT EXISTING VEGETATION WHERE POSSIBLE AND STABILIZED AREAS THAT ARE DISTURBED DURING CONSTRUCTION ACTIVITIES. STRUCTURAL MEASURES WILL BE USED TO DIVERT FLOWS FROM EXPOSED SOILS, STORE FLOWS OR OTHERWISE LIMIT RUNOFF AND THE DISCHARGE OF POLLUTANTS FROM EXPOSED AREAS. THE LOCATION AND SCHEDULING OF BMPS ARE SHOWN ON SHEETS C-401 THRU C-403. SPECIFIC DETAILS FOR THESE BMPS ARE LOCATED IN THE DETAIL SHEETS OF THE CONSTRUCTION DRAWINGS.

(26) STORM WATER MANAGEMENT
(26) DURING CONSTRUCTION, TEMPORARY SEDIMENT BASINS WILL BE CONSTRUCTED TO STORE RUNOFF FROM AREAS DRAINED. THESE BASINS WILL BE DESIGNED TO HOLD 67 CUBIC YARDS OF STORAGE PER ACRE DRAINED. OUTFALLS FOR THESE TEMPORARY SEDIMENT BASINS WILL BE MARKED TO INDICATE WHEN SEDIMENT FILLS TO A VOLUME OF 22 CUBIC YARDS PER ACRE FOR EACH ACRE WITHIN THAT DRAINAGE AREA. WHEN SEDIMENT REACHES THE INDICATOR, THE SEDIMENT WILL BE REMOVED TO RESTORE THE ORIGINAL DESIGN VOLUME. THIS SEDIMENT WILL BE PROPERLY DISPOSED OF PER LOCAL AND STATE REGULATIONS. UPON COMPLETION OF CONSTRUCTION AND AFTER FINAL STABILIZATION, STORM WATER DRAINAGE WILL BE PROVIDED BY CURB AND GUTTER, STORM SEWER AND CATCH BASINS, FOR THE DEVELOPED AREAS. THE AREAS WHICH ARE NOT DEVELOPED WILL BE GRADED AS SHOWN ON C-403 AND WILL HAVE PERMANENT SEEDING OR PLANTINGS. THE DEVELOPED AREAS WILL DRAIN TO STORM WATER MANAGEMENT PONDS. UPON COMPLETION OF THE STORM WATER MANAGEMENT PONDS, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE BASIN AND THE SLOPES WILL BE PLANTED OR SEEDED AS SHOWN. THE STORM WATER MANAGEMENT PONDS AND OUTLET STRUCTURES WERE DESIGNED BY A DESIGN PROFESSIONAL TO MEET THE REQUIREMENTS OF GOVERNING AUTHORITIES. THE OUTLET OF EACH STORM WATER MANAGEMENT POND WILL BE STABILIZED WITH A RIPRAP APRON.

(28) WASTE DISPOSAL
NO WASTE WILL BE DISPOSED OF INTO STORM WATER INLETS.

WASTE MATERIALS:
ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER WILL BE EMPTIED A MINIMUM OF ONCE PER WEEK OR MORE OFTEN IF NECESSARY AND TRASH WILL BE HAULED AS REQUIRED BY LOCAL REGULATIONS. NO CONSTRUCTION WASTE WILL BE BURIED ONSITE. ALL PERSONNEL WILL BE INSTRUCTED ON PROPER PROCEDURES FOR WASTE DISPOSAL. NOTICE STATING THESE PRACTICES WILL BE POSTED AT THE JOBSITE AND THE CONTRACTOR WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

(28) HAZARDOUS WASTES
ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER OF THE MATERIAL. ALL SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES AND THE CONTRACTOR WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

SANITARY WASTES
ALL SANITARY WASTES WILL BE COLLECTED FROM THE PORTABLE UNITS AND TEMPORARY SEPTIC SYSTEMS BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR AS REQUIRED BY LOCAL OR STATE REGULATIONS.

OFFSITE VEHICLE TRACKING
A STABILIZED CONSTRUCTION EXIT HAS BEEN PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENT. SEE SHEET C-401 THRU C-403 FOR CONSTRUCTION EXIT LOCATION(S). THE PAVED STREET ADJACENT THE SITE EXIT WILL BE INSPECTED DAILY FOR TRACKING OF MUD, DIRT OR ROCK. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARPAULIN.

TIMING OF CONTROLS
AS INDICATED ON THE ANTICIPATED ACTIVITY SCHEDULE ON SHEETS C-405 SEDIMENT CONTROLS AT THE PERIMETER AND THE CONSTRUCTION EXIT(S) WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY PORTION OF THE SITE. AREAS WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR MORE THAN 21 DAYS WILL BE STABILIZED WITH A TEMPORARY SEED AND/OR MULCH WITHIN 14 DAYS OF THE LAST DISTURBANCE. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED WITH PERMANENT SEED AND MULCH. AFTER THE ENTIRE SITE IS STABILIZED, ALL ACCUMULATED SEDIMENT WILL BE REMOVED AND DISPOSED OF PROPERLY AND ALL PERIMETER SEDIMENT CONTROLS WILL BE REMOVED.

MAINTENANCE AND INSPECTION OF EROSION AND SEDIMENT CONTROLS
MAINTENANCE
PRACTICES DESCRIBED IN THIS PLAN (SEE SHEETS C-401 THROUGH C-408 AND DETAIL SHEETS) AS WELL AS PRACTICES DESCRIBED IN MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA WILL BE FOLLOWED IN A TIMELY MANNER SUCH THAT VEGETATION, EROSION AND SEDIMENT CONTROL MEASURES AND OTHER PROTECTIVE MEASURES IDENTIFIED IN THE PLAN ARE IN GOOD AND EFFECTIVE OPERATING CONDITIONS.

(30) INSPECTIONS
PRIMARY PERMITTEE
(1). EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT A PRIMARY PERMITTEE'S SITE, CERTIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITTEE SHALL INSPECT: (A) ALL AREAS AT THE PRIMARY PERMITTEE'S SITE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT AND (B) ALL LOCATIONS AT THE PRIMARY PERMITTEE'S SITE WHERE VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING. THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

(2). MEASURE AND RECORD RAINFALL WITHIN DISTURBED AREAS OF THE SITE THAT HAVE NOT MET FINAL STABILIZATION ONCE EVERY 24 HOURS EXCEPT ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY AND NON-WORKING FEDERAL HOLIDAY. THE DATA COLLECTED FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY. MEASUREMENT OF RAINFALL MAY BE SUSPENDED IF ALL AREAS OF THE SITE HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION.

(3). CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT THE FOLLOWING AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES RAINFALL OR GREATER (UNLESS SUCH STORM ENDS AFTER 5:00 PM ON ANY FRIDAY OR ON ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY OR ANY NON-WORKING FEDERAL HOLIDAY IN WHICH CASE THE INSPECTION SHALL BE COMPLETED BY THE END OF THE NEXT BUSINESS DAY AND/OR WORKING DAY, WHICHEVER OCCURS FIRST): (A) DISTURBED AREAS OF THE PRIMARY PERMITTEE'S CONSTRUCTION SITE. (B) AREAS USED BY

THE PRIMARY PERMITTEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION; AND (C) STRUCTURAL CONTROL MEASURES. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE PRIMARY PERMITTEE'S SITE SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). FOR AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION, THE PER

EROSION CONTROL NOTES

1. SILT FENCE MUST MEET THE REQUIREMENTS OF THE MANUAL FOR EROSION AND SEDIMENT CONTROL OF GEORGIA.
2. ADDITIONAL EROSION CONTROL MEASURES WILL BE EMPLOYED BY CONTRACTOR WHERE DETERMINED NECESSARY BY ACTUAL SITE CONDITIONS TO ENSURE COMPLIANCE WITH REGULATIONS. ANY MEASURES IMPLEMENTED REQUIRING HYDRAULIC CALCULATIONS ARE TO BE COORDINATED WITH AND CERTIFIED BY THE DESIGN PROFESSIONAL PRIOR TO COMMENCEMENT.
3. PROVISIONS TO PREVENT EROSION OF SOIL FROM THE SITE SHALL BE, AT A MINIMUM, IN CONFORMANCE WITH THE REQUIREMENTS OF THE CITY OF BLUE RIDGE EROSION AND SEDIMENTATION ORDINANCE AND THE SEDIMENT CONTROL REGULATIONS, AND GEORGIA MANUAL ON EROSION AND SEDIMENT CONTROL.
4. PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH ENTRY TO OR EXIT FROM THE SITE. ALL OTHER DRIVEWAYS WITHOUT A CONSTRUCTION EXIT SHALL BE BARRICADED TO PROHIBIT INGRESS AND EGRESS TRAFFIC.
5. THE CONSTRUCTION EXITS SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEAN-OUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE FROM THE SITE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED.
6. DURING AND AFTER CONSTRUCTION IS COMPLETE, THE DETENTION POND AND POND OUTLET STRUCTURE SHALL BE CLEANED OF ALL DEBRIS AND EXCESS SEDIMENT. BOTTOM OF POND SHALL BE BROUGHT TO ELEVATION AND SHAPED AS SHOWN ON THE GRADING PLAN.
7. THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY TRAFFIC CONTROL DEVICES WHILE ROADWAY FRONTAGE IMPROVEMENTS ARE BEING MADE.
8. EROSION CONTROL DEVICES SHALL BE INSTALLED BEFORE GROUND DISTURBANCE OCCURS. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE APPROVED PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE FINAL PROPOSED DRAINAGE PATTERNS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE DESIGN PROFESSIONAL IMMEDIATELY.
9. THE CONTRACTOR SHALL REMOVE ACCUMULATED SILT WHEN THE SILT IS WITHIN 1/2 OF THE ORIGINAL HEIGHT OF THE SILT FENCE UTILIZED FOR EROSION CONTROL. IN THE SEDIMENTATION PONDS, SILT SHALL BE REMOVED WHEN THE CLEANOUT VOLUME (22 CY/AC) IS REACHED. SEDIMENT STORAGE INDICATORS MUST BE INSTALLED IN EACH POND.
10. FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB SITE UNTIL SUCH MEASURES ARE CORRECTED BACK TO LOCAL AND STATE STANDARDS.
11. A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE WHENEVER LAND DISTURBANCE ACTIVITY IS IN PROGRESS.
12. SILT BARRIERS ARE TO BE PLACED AT DOWNSTREAM TOE OF ALL FILL SLOPES.
13. ALL SLOPES AND AREAS DISTURBED DURING CONSTRUCTION SHALL BE GRADED SMOOTH AND 4" OF AMMENDED TOPSOIL APPLIED. THE AREA SHALL THEN BE SEEDED, FERTILIZED, MULCHED, WATERED AND MAINTAINED UNTIL A HEALTHY STAND OF PERMANENT VEGETATION HAS BEEN ESTABLISHED FOR ALL DISTURBED AREAS.
14. ABSOLUTELY NO SEDIMENT SHALL BE PERMITTED TO LEAVE THE SITE DURING CONSTRUCTION. IF HEAVY RAINS AND UNUSUAL SITE CONDITIONS RESULT IN THE POLLUTION OF ROADWAYS OR ADJACENT PARCELS THEN THE GRADING CONTRACTOR SHALL CLEAN THE DISTURBED AREAS IMMEDIATELY AND RESTORE THE AREAS TO THE ORIGINAL CONDITION.
15. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY THE GOVERNING OFFICIALS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BE INTIMATE WITH THE LOCAL EROSION CONTROL LAWS AND TO REFLECT THIS KNOWLEDGE IN HIS/HER ACTIONS AND QUOTATIONS.
16. REFERENCE THE CONSTRUCTION SEQUENCE FOR THE RELATIONSHIP BETWEEN THE INSTALLATION OF EROSION CONTROL FEATURES AND GENERAL CONSTRUCTION.
17. MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES, WHETHER TEMPORARY OR PERMANENT, SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE PROPERTY OWNER AND THE CONTRACTOR.
18. ALL GRADED SLOPES STEEPER THAN 3:1 OR OVER 5' IN HEIGHT REGARDLESS OF SLOPE MUST BE HYDRA SEEDED AND COVERED WITH EXCELSIOR CURLEX BLANKETS OR APPROVED EQUAL FIBER MATTING. IF NOT HYDRA SEEDED, APPROVED MATTING THAT HAS BEEN IMPREGNATED WITH SEED AND FERTILIZER MUST BE USED. ALL SLOPES MUST BE PROPERLY PROTECTED UNTIL A PERMANENT VEGETATIVE STAND IS ESTABLISHED.
19. ALL DISTURBED AREAS MUST BE SEEDED AND MULCHED AS SOON AS FINAL GRADE IS ACHIEVED. THESE DISTURBED AREAS MUST BE PROTECTED UNTIL PERMANENT VEGETATION IS ESTABLISHED.
20. CONTRACTOR MUST HAUL OFF ALL SOLID WASTE TO AN APPROVED LAND FILL. SOLID WASTE BURNING ON SITE IS PROHIBITED.
21. ALL CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH WORKING DAY, THIS INCLUDES BACKFILLING OF TRENCHES FOR UTILITY CONSTRUCTION AND PLACEMENT OF GRAVEL OR BITUMINOUS PAVING FOR ROAD CONSTRUCTION.
22. NO WASTE MATERIALS SHALL BE DISCHARGED INTO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
23. NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25-FEET (15) OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.
24. THERE ARE NO STATE WATERS LOCATED ON NOR WITHIN 200 FT. OF THE SITE.
25. THERE ARE NO WETLANDS LOCATED ON THIS SITE.
26. ALL CONCRETE WASHOUT AREAS ARE TO BE CONTAINED IN SUCH A MANNER THAT NONE OF THE WATER COMES INTO CONTACT WITH THE SURROUNDING SOILS OR STORMWATER.
27. PER THE REQUIREMENTS OF THE STATE OF GEORGIA NO CONCRETE TRUCK DRUMS CAN BE WASHED OUT ON A CONSTRUCTION SITE. ONLY CHUTES CAN BE WASHED OFF ONSITE.
28. AMENDMENTS/REVISIONS TO THE ESⅅ PLAN WHICH HAVE A SIGNIFICANT AFFECT ON BMP'S WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.
29. THE APPLICABLE PORTIONS EROSION SEDIMENTATION AND POLLUTION CONTROL PLAN IS TO BE PROVIDED TO EACH SECONDARY PERMITTEE PRIOR TO THEIR SECONDARY PERMITTEE CONDUCTING ANY CONSTRUCTION ACTIVITIES AND THAT EACH SECONDARY SHALL SIGN THE PLAN OR PORTION OF THE PLAN APPLICABLE TO THEIR SITE.

NOTE:

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL MONITORING OF STORM WATER RUNOFF AS DICTATED BY THE NEW GA LAW "CLEAN WATER ACT" GENERAL PERMIT No. GAR100001 GOVERNING EROSION CONTROL. ALL COSTS ARE TO BE INCLUDED IN BASE BID. CONTRACTOR IS RESPONSIBLE FOR ALL MONITORING FROM THE TIME LAND DISTURBING ACTIVITIES BEGIN UNTIL THE TIME "NOTICE OF TERMINATION" IS FILED. CONTRACTOR TO REFER TO EROSION CONTROL PLANS, SHEETS C-401 THRU C-405, AND GENERAL PERMIT No. GAR100001 FOR ADDITIONAL NOTES AND INFORMATION.

DESIGN PROFESSIONAL CERTIFICATIONS

(13) "I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR100001."

(12) "I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY DIRECT SUPERVISION."

Donna N Blalock — 6/14/2024

NAME: DONNA N. BLALOCK — DATE
PE #: 32668
GSWCC CERTIFICATION NO.: 12451 EXP: 6/22/2027

(XX) REPRESENTS NOTE/FEATURE WHICH CORRESPONDS WITH THE ES&PC PLAN CHECKLIST

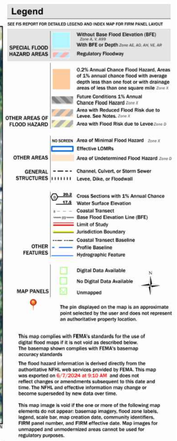
OWNER: AUGUSTA PARKS AND RECREATION DEPARTMENT
NAME: ALPHONZA C. WILLIAMS
ADDRESS: 2027 LUMPKIN ROAD AUGUSTA, GA. 30906
PHONE: (706)796-4084

SITE OPERATOR/GENERAL CONTRACTOR: _____

SUPERINTENDENT: _____

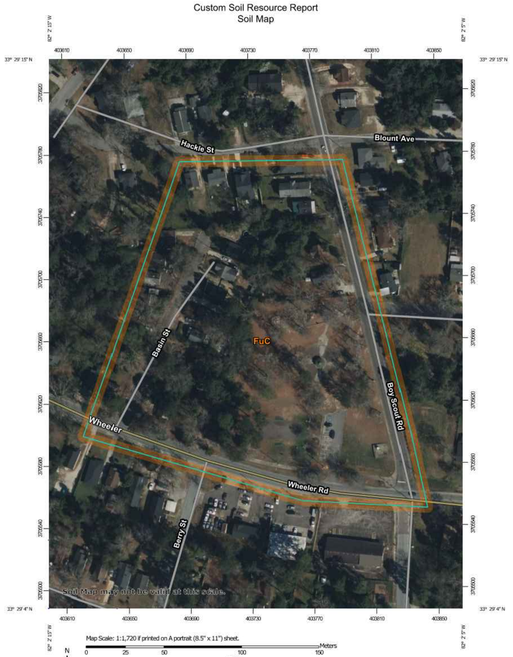
GEORGIA811 Utilities Protection Center, Inc
Know what's below. Call before you dig.

National Flood Hazard Layer FIRMette

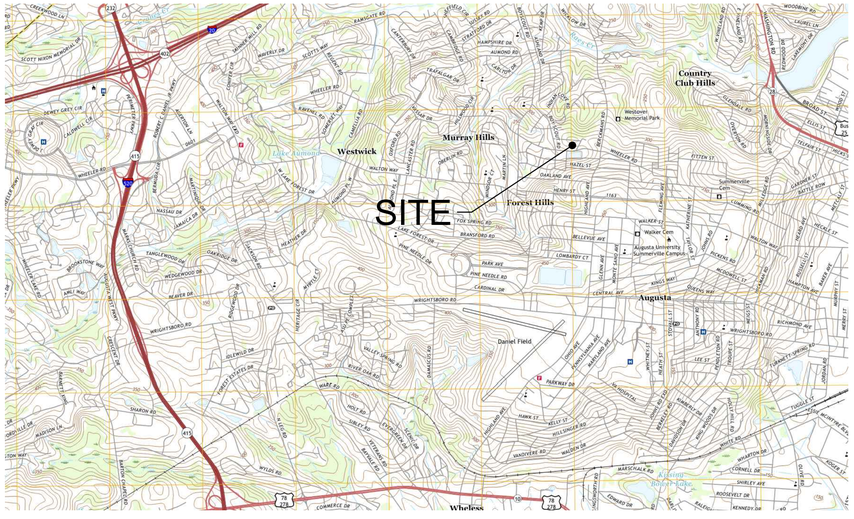


FEMA FLOOD MAP
NOT TO SCALE

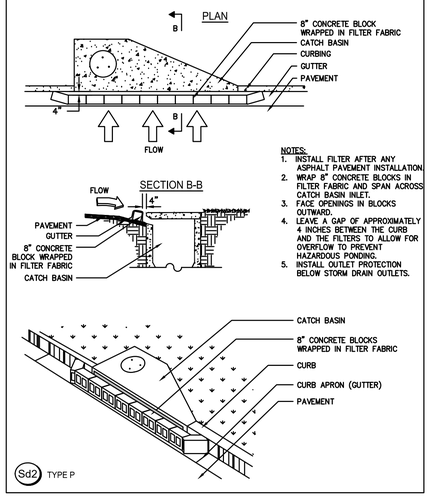
Custom Soil Resource Report
Soil Map



SOILS MAP
NOT TO SCALE


SITE
Augusta
Westwick
Murray Hills
Forest Hills
Country Club Hills
Daniel Field
Augusta University Summerville Campus
Wheless
Lake Olmstead
Lake Aumond
Walker Golf Course
Weatherbee Memorial Park
Summerville
Jessye Norman Amphitheatre
Augusta Canal
Augusta Canal Interpretive Center & Headgates Trail
Phinizy Swamp Nature Park
Augusta Regional Airport at Bush Field
Savannah River
SCOTT HIXON MEMORIAL
DEWEY GREY CIR
LOVELL RD
WHEELER RD
HASSAU DR
WEDGEWOOD DR
BEAVER DR
WRIGHTSBORO RD
STONESTONE WAY
SHARON RD
WALTON WAY
WALTON DR
WESLEY RD
COMMERCE DR
HAMPSHIRE DR
AUMOND RD
LAKEMONT DR
LAKEVIEW DR
CHEROKEE RD
CHEROKEE PL
CHEROKEE CT
CHEROKEE TER
EMERALD RD
CHEROKEE AVE
CHEROKEE CIR
HAZELNUT DR
HAZEL ST
HENRY ST
OAKLAND AVE
FOX SPRING RD
BRANSFORD RD
BELLEVUE AVE
LOMBARDY CT
PARK AVE
PINE NEEDLE RD
CARDINAL DR
CENTRAL WAY
WALKER ST
WALKER GOLF DR
WALTON WAY
WALTON PL
WALTON RD
WRIGHTSBORO RD
WOODLEY DR
LAUREL DR
BELLEVUE RD
HILLCREST DR
HILLCREST CIR
HILLCREST TER
HILLCREST PL
HILLCREST RD
HILLCREST AVE
HILLCREST CT
WOODLAWN DR
WOODLAWN CT
WOODLAWN TER
WOODLAWN PL
WOODLAWN AVE
WOODLAWN RD
WOODLAWN CIR
WOODLAWN LN
WOODLAWN WAY

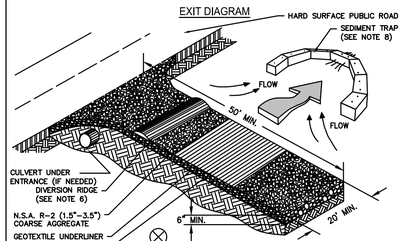
CURB INLET FILTER "PIGS IN BLANKET"



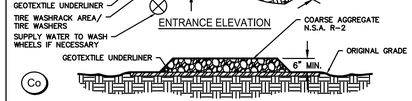
NOTES:
1. INSTALL FILTER AFTER ANY ASPHALT PAVEMENT INSTALLATION
2. WRAP 8" CONCRETE BLOCKS IN FILTER FABRIC AND SPAN ACROSS CATCH BASIN INLET.
3. FACE OPENINGS IN BLOCKS OUTWARD.
4. LEAVE A GAP OF APPROXIMATELY 4 INCHES BETWEEN THE CURB AND THE FILTERS TO ALLOW FOR OVERFLOW TO PREVENT HAZARDOUS PONDING.
5. INSTALL OUTLET PROTECTION BELOW STORM DRAIN OUTLETS.

Sd2 TYPE P

EXIT DIAGRAM



ENTRANCE ELEVATION

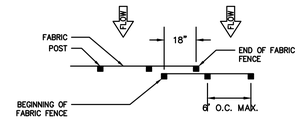


Co

NOTES:
1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
3. AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"-3.5" STONE).
4. A GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".
5. PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
6. A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
7. INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
8. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN (DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).
9. WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVE MUD AND DIRT.
10. MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

FASTENERS FOR SILT FENCES

OVERLAP AT FABRIC ENDS



TOP VEIW – NOT TO SCALE

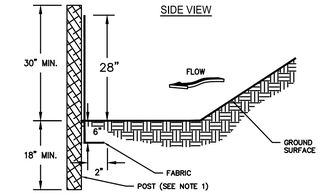
FRONT VIEWS – NOT TO SCALE

NOTES:
1. THE FABRIC AND WIRE SHOULD BE SECURELY FASTENED TO POSTS AND FABRIC ENDS MUST BE OVERLAPPED A MINIMUM OF 18" OR WRAPPED TOGETHER AROUND A POST TO PROVIDE A CONTINUOUS FABRIC BARRIER AROUND THE INLET.

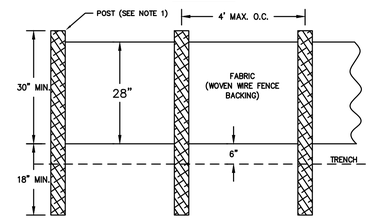
Sd1

SILT FENCE - TYPE SENSITIVE (TYPE C)

SIDE VIEW



FRONT VIEW

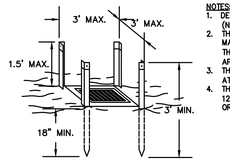


NOTES:
1. USE STEEL POSTS AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

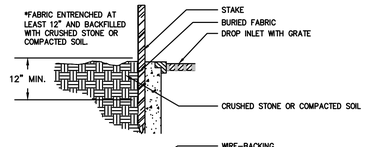
Sd1 TYPE S

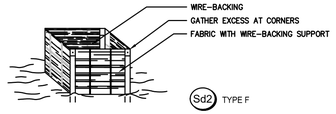
FABRIC AND SUPPORTING FRAME FOR INLET PROTECTION

STEEL FRAME AND SILT FENCE INSTALLATION



NOTES:
1. DESIGN IS FOR SLOPES NO GREATER THAN 5% (NOT DESIGNED FOR CONCENTRATED FLOWS).
2. THE STEEL POSTS SUPPORTING THE SILT FENCE MATERIAL SHOULD BE SPACED EVENLY AROUND THE PERIMETER OF THE INLET (MAXIMUM OF 3' APART).
3. THE STEEL POSTS SHOULD BE SECURELY DRIVEN AT LEAST 18" DEEP.
4. THE FABRIC SHOULD BE ENTRENCHED AT LEAST 12" AND THEN BACKFILLED WITH CRUSHED STONE OR COMPACTED SOIL.





Sd2 TYPE F

CONCRETE WASHOUT DETAIL

STRAW BALE BARRIER CONCRETE WASHOUT

PLAN
NOT TO SCALE
TYPE "ABOVE GRADE" WITH STRAW BALES

SECTION B-B
NOT TO SCALE

Cw CONCRETE WASHOUT SIGN DETAIL
NOT TO SCALE

NOTES:
1. ACTUAL LAYOUT DETERMINED IN FIELD.
2. INSTALL CONCRETE WASHOUT SIGN (24"X24", MINIMUM) WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
3. TEMPORARY WASHOUT AREA MUST BE AT LEAST 50' FROM A STORM DRAIN, CREEK BANK OR PERIMETER CONTROL.
4. CLEAN OUT CONCRETE WASHOUT AREA WHEN 50% FULL.

EXCAVATED PIT CONCRETE WASHOUT

SECTION B-B
NOT TO SCALE

SECTION A-A
NOT TO SCALE

TEMPORARY CONCRETE WASHOUT NOT TO SCALE

SCALE: NTS

X4 REPRESENTS NOTE/FEATURE WHICH CORRESPONDS WITH THE ES&PC PLAN CHECKLIST. SEE SHEET ES-4 FOR ES&PC CHECKLIST.

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317 Tattnall Street
Savannah, GA 31401
912.721.6999 . www.chasolutions.com

Augusta GEORGIA RECREATION & PARKS

DELTA ENGINEERING

RAYMOND

SCD Sustainable Design Consultants, LLC

GEORGIA REGISTERED No. PE032668 PROFESSIONAL 5/9/2025 ENGINEER DONNA N. BLALOCK

GSWCC# 12451

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF A PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION 'ALTERED BY' FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

BIG OAK PARK IMPROVEMENTS

2803 WHEELER ROAD
AUGUSTA, GA 30909

No.	Submittal / Revision	Apv	By	Date
F	REVISED PERMIT SET	PG	JM	5-9-2025
E	REVISED PERMIT SET	PG	JM	4-3-2025
D	REVISED PERMIT SET	PG	JM	8-5-2024
C	PERMIT SET	PG	JM	6-14-2024
B	DESIGN DEVELOPMENT	PG	JM	4-15-2024
A	SCHEMATIC DESIGN	PG	JM	2-23-2024

EROSION SEDIMENTATION & POLLUTION CONTROL DETAILS

Designed By:	Drawn By:	Checked By:
DB	CS	DB
Issue Date:	Project No.:	Scale:
06/14/24	080083	AS SHOWN

Drawing No.:
C-406

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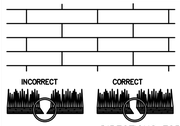
SOD MAINTENANCE AND INSTALLATION

SOD LAYOUT AND PREPARATION



LAY SOD IN A STAGGERED PATTERN. BUTT THE STRIPS TIGHTLY AGAINST EACH OTHER. DO NOT LEAVE SPACES AND DO NOT OVERLAP. A SHARPENED MASON'S TROWEL IS A HANDY TOOL FOR TUCKING DOWN THE ENDS AND TRIMMING PIECES.

INCORRECT CORRECT

BUTTING: ANGLED ENDS CAUSED BY THE AUTOMATIC SOD CUTTER MUST BE MATCHED CORRECTLY.

DIRECTIONS FOR INITIAL MAINTENANCE

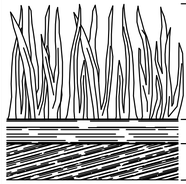
Step 1. ROLL SOD IMMEDIATELY TO ACHIEVE FIRM CONTACT WITH THE SOIL.

Step 2. WATER TO A DEPTH OF 4" AS NEEDED. WATER WELL AS SOON AS THE SOD IS LAID.

Step 3. MOW WHEN THE SOD IS ESTABLISHED -- IN 2-3 WEEKS. SET THE MOWER HIGH (2"-3").

APPEARANCE OF GOOD SOD

Ds4



SHOOTS OR GRASS BLADES: GRASS SHOULD BE GREEN AND HEALTHY, MOWED AT A 2"-3" CUTTING HEIGHT.

THATCH: GRASS CLIPPINGS AND DEAD LEAVES (UP TO 1/2" THICK).

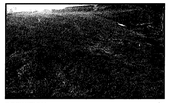
ROOT ZONE: SOIL AND ROOTS. SHOULD BE 1/2"-3/4" THICK WITH DENSE ROOT MAT FOR STRENGTH.

Table 6-5.1. Fertilizer Requirements

TYPE OF SPECIES	YEAR	ANALYSIS OR EQUIVALENT N-P-K	RATE	N TOP DRESSING RATE
1. Cool season grasses	First	6-12-12	1500 lbs./ac.	50-100 lbs./ac. 1/2/
	Second	6-12-12	1000 lbs./ac.	
	Maintenance	10-10-10	400 lbs./ac.	30
2. Cool season grasses and legumes	First	6-12-12	1500 lbs./ac.	0-50 lbs./ac. 1/
	Second	0-10-10	1000 lbs./ac.	—
	Maintenance	0-10-10	400 lbs./ac.	—
3. Ground covers	First	10-10-10	1300 lbs./ac. 3/	—
	Second	10-10-10	1300 lbs./ac. 3/	—
	Maintenance	10-10-10	1100 lbs./ac.	—
4. Pine seedlings	First	20-10-5	one 21-gram pellet per seedling placed in the closing hole	—
5. Shrub Lespedeza	First	0-10-10	700 lbs./ac.	—
	Maintenance	0-10-10	700 lbs./ac. 4/	
6. Temporary cover crops seeded alone	First	10-10-10	500 lbs./ac.	30 lbs./ac. 5/
7. Warm season grasses	First	6-12-12	1500 lbs./ac.	50-100 lbs./ac. 2/6/
	Second	6-12-12	800 lbs./ac.	50-100 lbs./ac. 2/
	Maintenance	10-10-10	400 lbs./ac.	30 lbs./ac.
8. Warm season grasses and legumes	First	6-12-12	1500 lbs./ac.	50 lbs./ac./8/
	Second	0-10-10	1000 lbs./ac.	
	Maintenance	0-10-10	400 lbs./ac.	

1/ Apply in spring following seeding.
2/ Apply in split applications when high rates are used.
3/ Apply in 3 split applications.
4/ Apply when plants are pruned.
5/ Apply to grass species only.
6/ Apply when plants grow to a height of 2 to 4 inches.

Disturbed Area Stabilization (With Temporary Seeding) Ds2



DEFINITION

The establishment of temporary vegetative cover with fast growing seedings for seasonal protection on disturbed or denuded areas.

PURPOSE

- To reduce runoff and sediment damage of down stream resources
- To protect the soil surface from erosion
- To improve wildlife habitat
- To improve aesthetics
- To improve tilth, infiltration and aeration as well as organic matter for permanent plantings

REQUIREMENT FOR REGULATORY COMPLIANCE

Mulch or temporary grassing shall be applied to all exposed areas within 14 days of disturbance. Temporary grassing, instead of mulch, can be applied to rough graded areas that will be exposed for less than six months. If an area is expected to be undisturbed for longer than six months, permanent perennial vegetation shall be used. If optimum planting conditions for temporary grassing is lacking, mulch can be used as a singular erosion control device for up to six months but it shall be applied at the appropriate depth, anchored, and have a continuous 90% cover or greater of the soil surface. Refer to specification **Ds1-Disturbed Area Stabilization (With Temporary Seeding).**

CONDITIONS

Temporary vegetative measures should be coordinated with permanent measures to assure economical and effective stabilization. Most types of temporary vegetation are ideal to use as companion crops until the permanent vegetation is established. Note: Some species of temporary vegetation are not appropriate for companion crop plantings because of their potential to out-compete the desired species (e.g. annual ryegrass). Contact NRCS or the local SWCD for more information.

SPECIFICATIONS

Grading and Shaping

Excessive water run-off shall be reduced by properly designed and installed erosion control practices such as closed drains, ditches, dikes, diversions, sediment barriers and others.

No shaping or grading is required if slopes can be stabilized by hand-seeded vegetation or if hydraulic seeding equipment is to be used.

Seedbed Preparation

When a hydraulic seeder is used, seedbed preparation is not required. When using conventional or hand-seeding, seedbed preparation is not required if the soil material is loose and not sealed by rainfall.

When soil has been sealed by rainfall or consists of smooth cut slopes, the soil shall be pitted, trenched or otherwise scarified to provide a place for seed to lodge and germinate.

Lime and Fertilizer

Agricultural lime is required unless soil tests indicate otherwise. Apply agricultural lime at a rate determined by soil test for pH. Quick acting lime should be incorporated to modify pH during the germination period. Bio stimulants should also be considered when there is less than 3% organic matter in the soil. Graded areas require lime application. Soils must be tested to determine required amounts of fertilizer and amendments. Fertilizer should be applied before land preparation and incorporated with a disk, ripper, or chisel. On slopes too steep for, or inaccessible to equipment, fertilizer shall be hydraulically applied, preferably in the first pass with seed and some hydraulic mulch, then topped with the remaining required application rate.

Seeding

Select a grass or grass-legume mixture suitable to the area and season of the year. Seed shall be applied uniformly by hand, cyclone seeder, drill, culti-packer-seeder, or hydraulic seeder (slurry including seed and fertilizer). Drill or cultipacker seeders should normally place seed one-quarter to one-half inch deep. Appropriate depth of planting is ten times the seed diameter. Soil should be "raked" lightly to cover seed with soil if seeded by hand. See Table 6-4.1

Mulching

Temporary vegetation can, in most cases, be established without the use of mulch, provided there is little to no erosion potential. However, the use of mulch can often accelerate and enhance germination and vegetation establishment. Mulch without seeding should be considered for short term protection. Refer to **Ds1 - Disturbed Area Stabilization (With Mulching Only)**.

Irrigation

During times of drought, water shall be applied at a rate not causing runoff and erosion. The soil shall be thoroughly wetted to a depth that will insure germination of the seed. Subsequent applications should be made when needed.

Dust Control on Disturbed Areas Du

DEFINITION

Controlling surface and air movement of dust on construction sites, roads, and demolition sites.

PURPOSE

- To prevent surface and air movement of dust from exposed soil surfaces.
- To reduce the presence of airborne substances that may be harmful or injurious to human health, welfare, or safety, or to animals or plant life.

CONDITIONS

This practice is applicable to areas subject to surface and air movement of dust where on and off-site damage may occur without treatment.

METHOD AND MATERIALS

A. Temporary Methods

Mulches. See standard **Ds1 - Disturbed Area Stabilization (With Mulching Only).** Synthetic resins may be used instead of asphalt to bind mulch material. Refer to specification **Tac - Tackifiers**. Resins should be used according to manufacturer's recommendations.

Vegetative Cover. See specification **Ds2 - Disturbed Area Stabilization (With Temporary Seeding)**.

Spray-on Adhesives. These are used on mineral soils (not effective on muck soils). Keep traffic off these areas. Refer to specification **Tac - Tackifiers**.

Tillage. This practice is designed to roughen and bring clods to the surface. It is an emergency measure that should be used before wind erosion starts. Begin plowing on windward side of site. Chisel-type plows spaced about 12 inches apart, spring-toothed harrows, and similar plows are examples of equipment that may produce the desired effect.

Irrigation. This is generally done as an emergency treatment. Site is sprinkled with water until the surface is wet. Repeat as needed.

Barriers. Solid board fences, snowfences, burlap fences, crate walls, bales of hay and similar material can be used to control air currents and soil blowing. Barriers placed at right angles to prevailing currents at intervals of about 15 times their height are effective in controlling wind erosion.

Calcium Chloride. Apply at rate that will keep surface moist. May need retreatment.

B. Permanent Methods

Permanent Vegetation. See specification **Ds3 -Disturbed Area Stabilization (With Permanent Vegetation)**. Existing trees and large shrubs may afford valuable protection if left in place.

Topsoiling. This entails covering the surface with less erosive soil material. See specification **Tp - Topsoiling**.

Stone. Cover surface with crushed stone or coarse gravel. See specification **Cr-Construction Road Stabilization**.

EXCAVATED INLET SEDIMENT TRAP
TO BE SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN **Sd2-Ex1**

If the **EXCAVATED INLET SEDIMENT TRAP** is used, show the following information:

1. **Drainage area** = 0.47 ac
2. Required sediment storage = 67 cy/ac * drainage area
   Required sediment storage = 67 cy/ac * 0.47 ac
   Required sediment storage = 31.49 cy = 850.23 cf
3. Assume excavation **depth** (minimum of 1.5 ft.) = 2 ft
4. Assume **slope of sides** (shall not be steeper than 2:1) = 2 :1
5. Determine required surface area
   SA_{min} = Required sediment storage / excavation depth
   SA_{min} = 850.23 cf / 2 ft
   SA_{min} = 425.12 sf
6. Assume shape of excavation and determine dimensions.
   (A rectangular shape with 2:1 length to width ratio is recommended.)
   Shape: RECTANGULAR
   Dimensions: l = 30 ft w = 15 ft diameter (*if applicable*) = N/A ft

Provide a detail showing the depth, length and width, or diameter (*if applicable*), and side slopes of the excavation.

EXCAVATED INLET SEDIMENT TRAP
TO BE SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN **Sd2-Ex2**

If the **EXCAVATED INLET SEDIMENT TRAP** is used, show the following information:

1. **Drainage area** = 0.15 ac
2. Required sediment storage = 67 cy/ac * drainage area
   Required sediment storage = 67 cy/ac * 0.15 ac
   Required sediment storage = 10.05 cy = 271.35 cf
3. Assume excavation **depth** (minimum of 1.5 ft.) = 2 ft
4. Assume **slope of sides** (shall not be steeper than 2:1) = 2 :1
5. Determine required surface area
   SA_{min} = Required sediment storage / excavation depth
   SA_{min} = 271.35 cf / 2 ft
   SA_{min} = 135.68 sf
6. Assume shape of excavation and determine dimensions.
   (A rectangular shape with 2:1 length to width ratio is recommended.)
   Shape: RECTANGULAR
   Dimensions: l = 20 ft w = 10 ft diameter (*if applicable*) = N/A ft

Provide a detail showing the depth, length and width, or diameter (*if applicable*), and side slopes of the excavation.

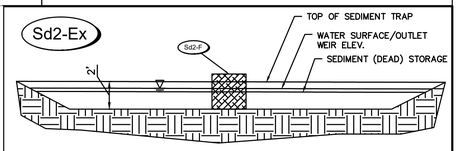
EXCAVATED INLET SEDIMENT TRAP
TO BE SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN **Sd2-Ex3**

If the **EXCAVATED INLET SEDIMENT TRAP** is used, show the following information:

1. **Drainage area** = 0.39 ac
2. Required sediment storage = 67 cy/ac * drainage area
   Required sediment storage = 67 cy/ac * 0.39 ac
   Required sediment storage = 26.13 cy = 705.51 cf
3. Assume excavation **depth** (minimum of 1.5 ft.) = 2 ft
4. Assume **slope of sides** (shall not be steeper than 2:1) = 2 :1
5. Determine required surface area
   SA_{min} = Required sediment storage / excavation depth
   SA_{min} = 705.51 cf / 2 ft
   SA_{min} = 352.76 sf
6. Assume shape of excavation and determine dimensions.
   (A rectangular shape with 2:1 length to width ratio is recommended.)
   Shape: RECTANGULAR
   Dimensions: l = 25 ft w = 15 ft diameter (*if applicable*) = N/A ft

Provide a detail showing the depth, length and width, or diameter (*if applicable*), and side slopes of the excavation.

Sd2-Ex



NOTE:
THE OUTLET WEIRS OF THE EXCAVATED INLET TRAPS SHALL BE ELEVATED ABOVE THE DEAD STORAGE TO ENSURE STORMWATER DISCHARGE OCCURS AT THE WATER SURFACE.

EXCAVATED INLET SEDIMENT TRAP TYPICAL SECTION
N.T.S.

(xx) REPRESENTS NOTE/FEATURE WHICH CORRESPONDS WITH THE ES&PC PLAN CHECKLIST. SEE SHEET ES-4 FOR ES&PC CHECKLIST.

CHA
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Savannah, GA 31401
912.721.6999 . www.chasolutions.com

Augusta GEORGIA RECREATION & PARKS

DELTA ENGINEERING

RAYMOND

SDC Sustainable Design Consultants, LLC

GEORGIA REGISTERED No. PE032668 PROFESSIONAL Donna J. Blalock 4/3/2025 ENGINEER DONNA N. BLALOCK

GSWCC# 12451

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BIG OAK PARK IMPROVEMENTS

2803 WHEELER ROAD
AUGUSTA, GA 30909

No.	Submittal / Revision	Apv	By	Date
E	REVISED PERMIT SET	PG	JM	4-3-2025
D	REVISED PERMIT SET	PG	JM	8-5-2024
C	PERMIT SET	PG	JM	6-14-2024
B	DESIGN DEVELOPMENT	PG	JM	4-15-2024
A	SCHEMATIC DESIGN	PG	JM	2-23-2024

EROSION SEDIMENTATION & POLLUTION CONTROL DETAILS

Designed By:	Drawn By:	Checked By:
DB	CS	DB
Issue Date:	Project No.:	Scale:
06/14/24	080083	AS SHOWN

Drawing No.:
C-407

LEGEND

EXISTING TREE PROTECTION ZONE

LIMITS OF DISTURBANCE

PLANT SCHEDULE

PERENNIAL / GRASSES					
SYMBOL	ABBR.	BOTANICAL NAME	COMMON NAME	MINIMUM POT SIZE	QTY.
IMP-07 AREA: 1,740 S.F. (0.04 AC), 100% COVERAGE @ 3' O.C.					
	PV	PANICUM VIRGATUM	SWITCHGRASS	1 GAL.	190
IMP-08 AREA: 546 S.F. (0.0125 AC), 100% COVERAGE @ 3' O.C.					
	PV	PANICUM VIRGATUM	SWITCHGRASS	1 GAL.	62
IMP-09 AREA: 404 S.F. (0.009 AC), 100% COVERAGE @ 3' O.C.					
	PV	PANICUM VIRGATUM	SWITCHGRASS	1 GAL.	45

NOTES

1. SEE SITE DEMOLITION PLAN C-002 FOR EXISTING TREES TO BE REMOVED AND EXISTING TREES TO BE PROTECTED.
2. ALL DISTURBED AREAS OF THE SITE WHICH ARE SCHEDULED TO BE SEEDED OR SODDED SHALL RECEIVE TOPSOIL. TOPSOIL TO BE INSTALLED TO A MINIMUM 6" DEPTH. COORDINATE WITH SITE EROSION CONTROL PLAN FOR ALL APPROVED TEMPORARY AND PERMANENT STABILIZATION METHODS THROUGHOUT CONSTRUCTION ACTIVITY.
3. COORDINATE WITH SITE LANDSCAPE PLANS C-551-C-555 FOR LIMITS OF SEED AND SOD.
4. COORDINATE WITH SITE LANDSCAPE PLANS C-551-C-555 FOR INSTALLATION OF PLANTING MATERIALS.
5. COORDINATE WITH SITE IRRIGATION PLANS C-501-C-505 FOR INSTALLATION OF IRRIGATION SYSTEM.
6. ALL DISTURBED AREAS OF THE SITE WHICH ARE NOT INDICATED TO RECEIVE SOD SHALL BE SEEDED.

WATER QUALITY FEATURES

ID#	Structure #/Location	Area Of Drainage Practice	PERVIOUS AREA	Type of Feature	% IMP	Rv	RRv	WQV
1	COURT (NORTHWEST CORNER)	2178	0.01	Downspout Disconnect (A & B hydrologic soils)	86%	0.824	128.0	153.0
2	COURT (NORTH CENTER)	1742.4	0	Downspout Disconnect (A & B hydrologic soils)	100%	0.950	126.0	152.0
3	COURT (NORTHEAST CORNER)	1306.8	0	Downspout Disconnect (A & B hydrologic soils)	100%	0.950	102.0	122.0
4	COURT (SOUTHWEST CORNER)	1742.4	0.01	Downspout Disconnect (A & B hydrologic soils)	74%	0.716	112.0	143.0
5	COURT (SOUTH CENTER)	1742.4	0.02	Downspout Disconnect (A & B hydrologic soils)	44%	0.446	69.0	83.0
6	COURT (SOUTHWEST CORNER)	2178	0.03	Downspout Disconnect (A & B hydrologic soils)	45%	0.455	81.0	97.0
7	NORTH OF TENNIS COURTS	45302.4	0.97	Bioretention Basin 1 (w/ upturned underdrain)	7%	0.113	426.0	512.0
8	EAST OF TENNIS COURTS (NORTH)	3049.2	0.04	Bioretention Basin 3,4 (w/ upturned underdrain)	42%	0.428	110.0	132.0
9	EAST OF TENNIS COURTS (SOUTH)	6098.4	0.12	Bioretention Basin 7 (w/ upturned underdrain)	14%	0.179	92.0	111.0
10	AROUND THE SITE	9583.2	0.17	Permeable Paver/Pervious Concrete/Porous Asphalt, south (w/o underdrain)	29%	0.311	248.0	298.0

Stormwater Quality Feature Chart

ID#	Structure #/Location	Type of Feature	Manufacturer/ Model #	Sheet #	Design Flow (cfs)	Max Flow (cfs)
1	COURT (NORTHWEST CORNER)	Downspout Disconnect (A & B hydrologic soils)	ClearSpan	C-201	5.96	5.96
2	COURT (NORTH CENTER)	Downspout Disconnect (A & B hydrologic soils)	ClearSpan	C-201	5.96	5.96
3	COURT (NORTHEAST CORNER)	Downspout Disconnect (A & B hydrologic soils)	ClearSpan	C-201	4.47	4.47
4	COURT (SOUTHWEST CORNER)	Downspout Disconnect (A & B hydrologic soils)	ClearSpan	C-201	5.96	5.96
5	COURT (SOUTH CENTER)	Downspout Disconnect (A & B hydrologic soils)	ClearSpan	C-201	5.96	5.96
6	COURT (SOUTHWEST CORNER)	Downspout Disconnect (A & B hydrologic soils)	ClearSpan	C-201	7.45	7.45
7	NORTH OF TENNIS COURTS	Bioretention Basin 1 (w/ upturned underdrain)	N/A	C-201	6.6	6.6
8	EAST OF TENNIS COURTS (NORTH)	Bioretention Basin 3,4 (w/ upturned underdrain)	N/A	C-201	0.65	0.65
9	EAST OF TENNIS COURTS (SOUTH)	Bioretention Basin 7 (w/ upturned underdrain)	N/A	C-201	4.57	4.57
10	AROUND THE SITE	Permeable Paver/Pervious Concrete/Porous Asphalt, south (w/o underdrain)	N/A	C-201	20	20

TREE QUALITY POINTS

Tree Quality Points Calculation

Big Oak Park - Trees Inside of Developed Area

Total Area of Project (acres)	**2.08**
Tree Quality Points (TQP) Required (1000/acre)	**2,080**

TREE QUALITY POINTS - LARGE CANOPY TREES

Common Name	Diam at Breast Ht (dbh)	Retention Factor	TQP
Oak 01	24	0.6	345.6
Oak 02	22	0.6	290.4
Oak 03	12	0.6	86.4
Oak 04	12	0.6	86.4
Oak 05	12	0.6	86.4
Oak 06	10	0.6	60
Oak 07	9	0.6	48.6
Oak 08	14	0.6	117.6
Oak 09	18	0.6	194.4
Oak 10	20	0.6	240
Oak 11	22	0.6	290.4
Oak 12	18	0.6	194.4
Oak 13	20	0.6	240
Oak 14	36	0.6	777.6
Oak 15	28	0.6	470.4
Oak 16	20	0.6	240
Oak 17	18	0.6	194.4
Oak 18	16	0.6	153.6
Oak 19	9	0.6	48.6
Oak 20	8	0.6	38.4
Pine 01	24	0.6	345.6
Pine 02	17	0.6	173.4
		TOTAL TQP	**4,723**

TREE PROTECTION ZONE (TPZ), TYP.: OPTIMUM AREA OF TREE PROTECTION ZONE PER ILLUSTRATED GUIDE TO IMPLEMENTING AUGUSTA-RICHMOND COUNTY TREE ORDINACE. TPZ = DIAMETER IN FEET THAT IS ONE AND ONE HALF TIMES THE DBH OF THE TREE IN INCHES, RE: C-400 SHEETS FOR TREE PROTECTION FENCING. RE: C-002 DEMOLITION PLAN

PERMEABLE PAVER/PERVIOUS CONCRETE/POURS ASPHALT IMP 10

25" OAK LOST PER HURRICANE HELENE DAMAGE

BIORETENTION AREA NOT TO ENCROACH TPZ, TYP.

BIORETENTION AREA IMP 7 — 2 C-551

BIORETENTION AREA IMP 8 — 3 C-551

BIORETENTION AREA IMP 9 — 4 C-551

BIORETENTION AREA IMP 9 — 4 C-551

BIORETENTION AREA IMP 9 — 4 C-551

DOWNSPOUT DISCONNECT IMP 1

DOWNSPOUT DISCONNECT IMP 2

DOWNSPOUT DISCONNECT IMP 3

DOWNSPOUT DISCONNECT IMP 4

DOWNSPOUT DISCONNECT IMP 5

DOWNSPOUT DISCONNECT IMP 6

PV 145 · PV 18 · PV 44 · PV 45 · PV 50

BENCHMARK ◈ DWT BOC/C TOP=300.64 IEIN=294.74 IEOUT=294.64

BERRY STREET

WHEELER ROAD - R/W VARIES

Scale in feet: 0 20' 40'

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GEORGIA REGISTERED No. PE026690 PROFESSIONAL ENGINEER PATRICK N. GRAHAM

4-3-2025

BIG OAK PARK IMPROVEMENTS

2803 WHEELER ROAD
AUGUSTA, GA 30909

No.	Submittal / Revision	Apv	By	Date
-	REVISED PERMIT SET	PG	AM	4-03-2025
-	REVISED PERMIT SET	PG	JM	8-5-2024
-	PERMIT SET	PG	JM	6-14-2024

TREE PROTECTION - LANDSCAPE PLAN

Designed By:	Drawn By:	Checked By:
JM	JM	PG
Issue Date:	Project No.:	Scale:
09/30/24	080083	AS SHOWN

Drawing No.:

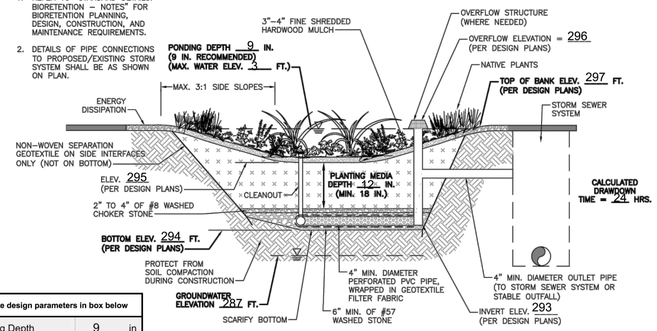
C-501

File: V:\PROJECTS\ANYV\X6\080083.000\09_DESIGN\DRAWINGS\01_SHEETS\C-501-080083-BIO.DWG
Date: 3/24/2025 10:53:09 AM Plotted: 3/24/2025 2:54:42 PM Current User: Marketon, Tim Last Saved By: JM

Bioretention with Upturned Underdrain

NOTES TO DESIGNERS:

1. REFER TO "STANDARD DETAILS: BIORETENTION – NOTES" FOR BIORETENTION PLANNING, DESIGN, CONSTRUCTION, AND MAINTENANCE REQUIREMENTS.
2. DETAILS OF PIPE CONNECTIONS TO PROPOSED/EXISTING STORM SYSTEM SHALL BE AS SHOWN ON PLAN.



BIORETENTION WITH UPTURNED UNDERDRAIN
N.T.S.

Denote design parameters in box below		
Ponding Depth	9	in
Max. Water Elevation	297	ft
Top of Bank Elevation	297	ft
Drawdown Time	24	hrs
Groundwater Elevation	287	ft
Bottom Elevation	292	ft
Planting Media Depth	36	in

Augusta GA | Bioretention Design Form – Version: July 2020 | Page **5** of **6**

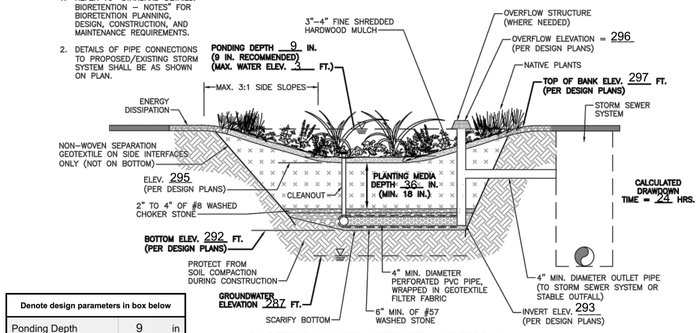
4 IMP 9 BIO–RETENTION

SECTION — SCALE: N.T.S.

Bioretention with Upturned Underdrain

NOTES TO DESIGNERS:

1. REFER TO "STANDARD DETAILS: BIORETENTION – NOTES" FOR BIORETENTION PLANNING, DESIGN, CONSTRUCTION, AND MAINTENANCE REQUIREMENTS.
2. DETAILS OF PIPE CONNECTIONS TO PROPOSED/EXISTING STORM SYSTEM SHALL BE AS SHOWN ON PLAN.



BIORETENTION WITH UPTURNED UNDERDRAIN
N.T.S.

Denote design parameters in box below		
Ponding Depth	9	in
Max. Water Elevation	297	ft
Top of Bank Elevation	297	ft
Drawdown Time	24	hrs
Groundwater Elevation	287	ft
Bottom Elevation	292	ft
Planting Media Depth	36	in

Augusta GA | Bioretention Design Form – Version: July 2020 | Page **5** of **6**

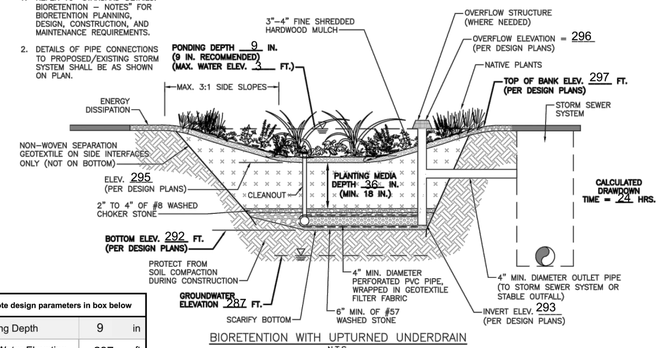
2 IMP 7 BIO–RETENTION

SECTION — SCALE: N.T.S.

Bioretention with Upturned Underdrain

NOTES TO DESIGNERS:

1. REFER TO "STANDARD DETAILS: BIORETENTION – NOTES" FOR BIORETENTION PLANNING, DESIGN, CONSTRUCTION, AND MAINTENANCE REQUIREMENTS.
2. DETAILS OF PIPE CONNECTIONS TO PROPOSED/EXISTING STORM SYSTEM SHALL BE AS SHOWN ON PLAN.



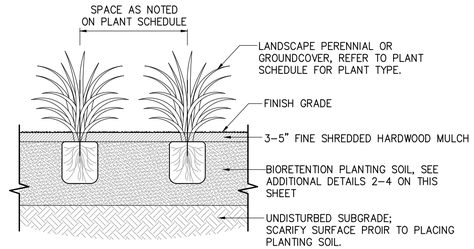
BIORETENTION WITH UPTURNED UNDERDRAIN
N.T.S.

Denote design parameters in box below		
Ponding Depth	9	in
Max. Water Elevation	297	ft
Top of Bank Elevation	297	ft
Drawdown Time	24	hrs
Groundwater Elevation	287	ft
Bottom Elevation	292	ft
Planting Media Depth	36	in

Augusta GA | Bioretention Design Form – Version: July 2020 | Page **5** of **6**

3 IMP 8 BIO–RETENTION

SECTION — SCALE: N.T.S.



1 PERENNIAL PLANTING

SECTION — SCALE: N.T.S.

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GEORGIA REGISTERED No. PE026690 PROFESSIONAL ENGINEER PATRICK N. GRAHAM
4-3-2025

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR SHALL ATTACH TO THE PLAN OR DRAWING A DESCRIPTION OF THE ALTERATION ALTERED BY FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

BIG OAK PARK IMPROVEMENTS

2803 WHEELER ROAD
AUGUSTA, GA 30909

No.	Submittal / Revision	Apv	By	Date
-	REVISED PERMIT SET	PG	AM	4-03-2025
-	REVISED PERMIT SET	PG	JM	8-5-2024
-	PERMIT SET	PG	JM	6-14-2024

LANDSCAPE DETAILS

Designed By:	Drawn By:	Checked By:
JM	JM	PG
Issue Date:	Project No.:	Scale:
09/30/24	080083	AS SHOWN

Drawing No.:
C-551

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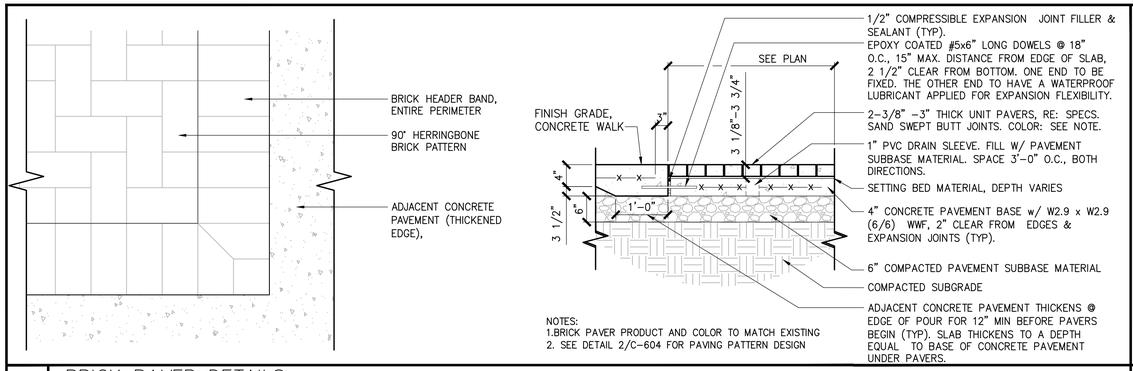
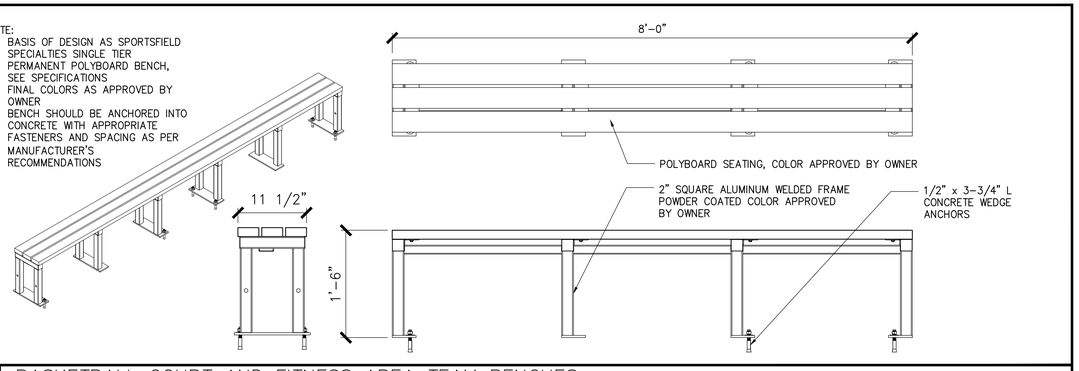


NOTES:
1.BRICK PAVER PRODUCT AND COLOR TO MATCH EXISTING
2. SEE DETAIL 2/C-604 FOR PAVING PATTERN DESIGN

9 BRICK PAVER DETAILS

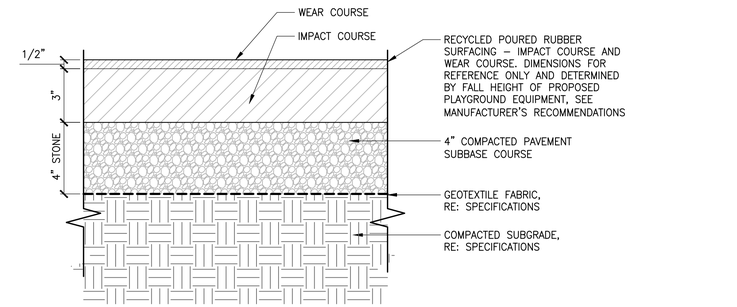
SECTION AND PLAN — SCALE: 1–1/2" = 1'–0"

NOTE:
1. BASIS OF DESIGN AS SPORTSFIELD SPECIALTIES SINGLE TIER PERMANENT POLYBOARD BENCH, SEE SPECIFICATIONS
2. FINAL COLORS AS APPROVED BY OWNER
3. BENCH SHOULD BE ANCHORED INTO CONCRETE WITH APPROPRIATE FASTENERS AND SPACING AS PER MANUFACTURER'S RECOMMENDATIONS



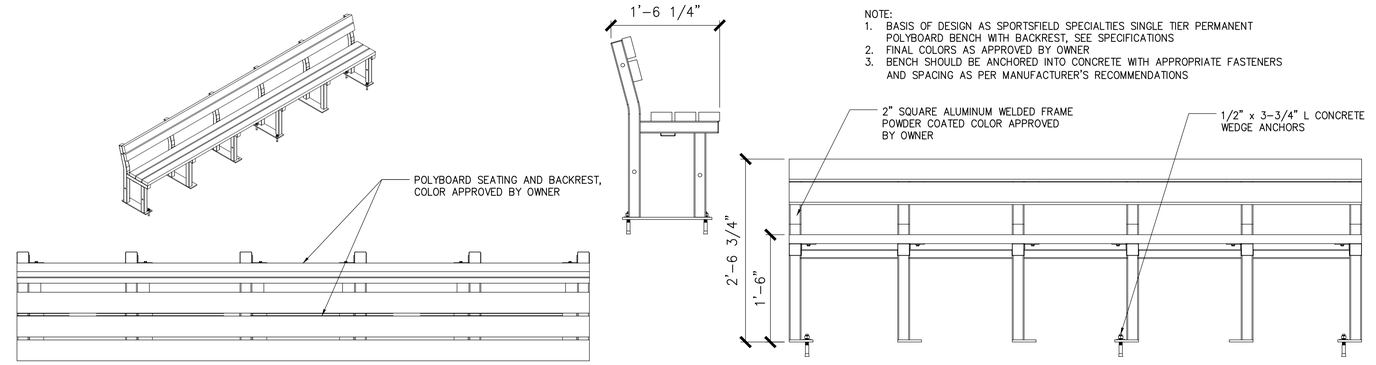
5 BASKETBALL COURT AND FITNESS AREA TEAM BENCHES

. — SCALE: N.T.S.



8 POURED IN PLACE RUBBER SURFACING FOR FITNESS AREA

SECTION — SCALE: 3" = 1'–0"

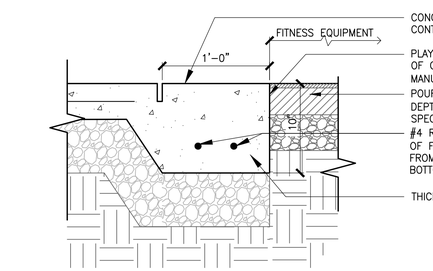


NOTE:
1. BASIS OF DESIGN AS SPORTSFIELD SPECIALTIES SINGLE TIER PERMANENT POLYBOARD BENCH WITH BACKREST, SEE SPECIFICATIONS
2. FINAL COLORS AS APPROVED BY OWNER
3. BENCH SHOULD BE ANCHORED INTO CONCRETE WITH APPROPRIATE FASTENERS AND SPACING AS PER MANUFACTURER'S RECOMMENDATIONS

2" SQUARE ALUMINUM WELDED FRAME POWDER COATED COLOR APPROVED BY OWNER
1/2" x 3–3/4" L CONCRETE WEDGE ANCHORS

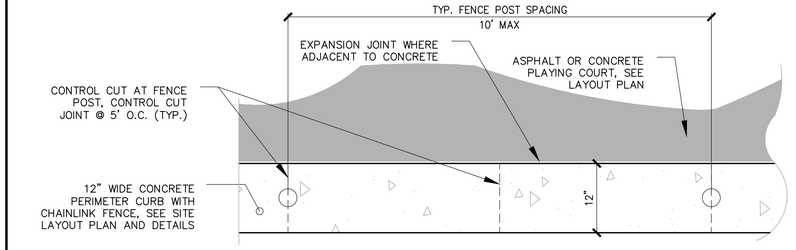
4 PICKLEBALL COURT TEAM BENCHES

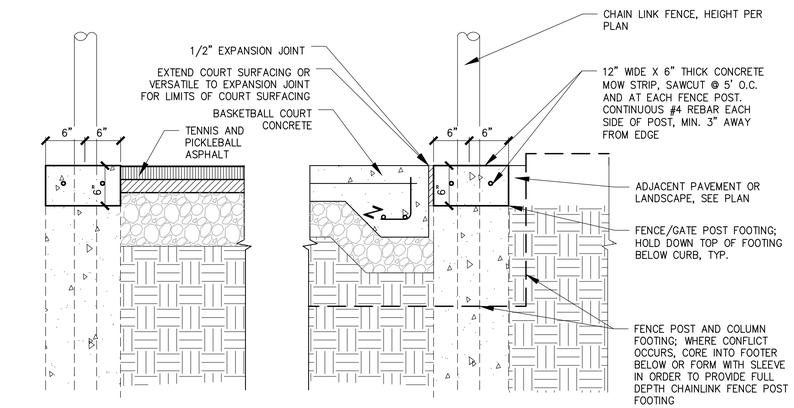
. — SCALE: N.T.S.



7 CONCRETE CURB AT FITNESS AREA

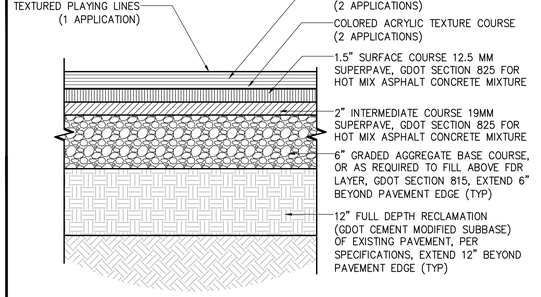
SECTION — SCALE: 1–1/2" = 1'–0"





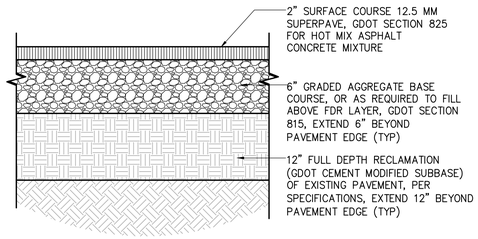
3 PERIMETER PLAYING COURT CURB WITH CHAINLINK FENCE

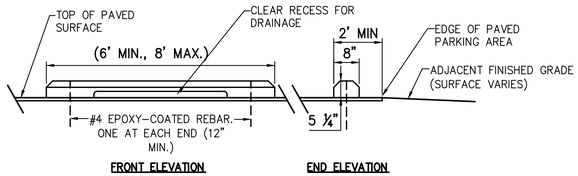
SECTION AND PLAN — SCALE: VARIES



2 PLAYING COURT ASPHALT PAVEMENT

SECTION — SCALE: N.T.S.





NOTE:
BASIS OF DESIGN SHOWN; SUBMIT SHOP DRAWING FOR APPROVAL

6 CONCRETE WHEEL STOP

SECTION — SCALE: N.T.S.

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Augusta Georgia Recreation & Parks
DELTA ENGINEERING
RAYMOND
SDC Sustainable Design Consultants, LLC

GEORGIA REGISTERED No. PE026690 PROFESSIONAL ENGINEER PATRICK N. GRAHAM
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BIG OAK PARK IMPROVEMENTS

2803 WHEELER ROAD
AUGUSTA, GA 30909

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SITE DETAILS

Designed By:	Drawn By:	Checked By:
JM	JM	PG
Issue Date:	Project No.:	Scale:
09/30/24	080083	AS SHOWN

Drawing No.:
C-601

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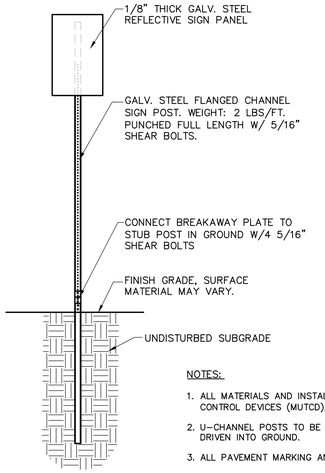
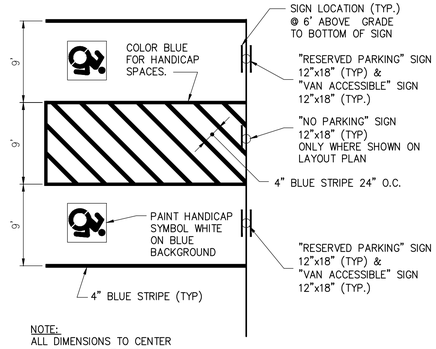


SIGN TABLE			
SIGN NO.	DESCRIPTION	M.U.T.C.D. NO.	QUANTITY
A	RESERVED PARKING	R7-8	1
B+	VAN ACCESSIBLE	R7-8b	1
C	NO PARKING ANY TIME	NYP1-2	1

\+ SIGN TO HAVE WHITE LETTERS ON BLUE BACKGROUND

++ VAN ACCESSIBLE ASSEMBLY MOUNTING HEIGHT 7' (EXTEND ABOVE FENCE AS NECESSSARY)



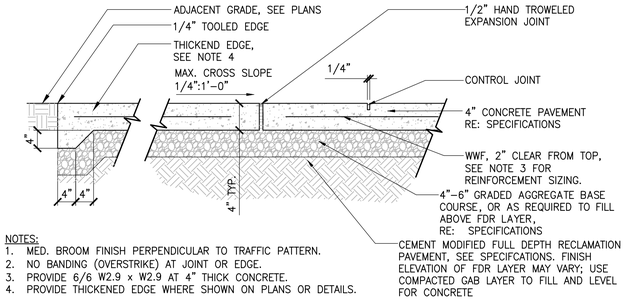
NOTE:
ALL DIMENSIONS TO CENTER OF 4" PAVEMENT STRIPING.

NOTES:

1. ALL MATERIALS AND INSTALLATION SHALL CONFORM TO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.
2. U-CHANNEL POSTS TO BE USED FOR ALL SIGNS WITHIN RIGHT-OF-WAY AND SHALL BE DRIVEN INTO GROUND.
3. ALL PAVEMENT MARKING AND STRIPING SHALL BE THERMOPLASTIC.

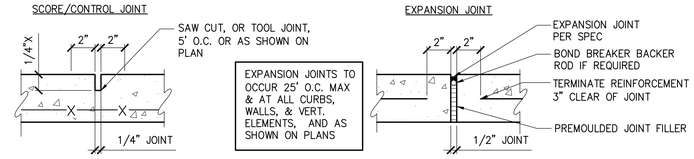
8 ADA PARKING AND SIGNAGE DETAIL

PLAN AND ELEVATION — SCALE: N.T.S.



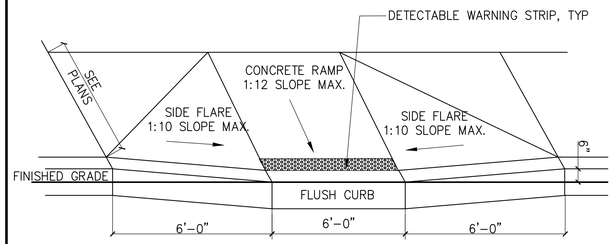
NOTES:

1. MED. BROOM FINISH PERPENDICULAR TO TRAFFIC PATTERN.
2. NO BANDING (OVERSTRIKE) AT JOINT OR EDGE.
3. PROVIDE 6/6 W2.9 x W2.9 AT 4" THICK CONCRETE.
4. PROVIDE THICKENED EDGE WHERE SHOWN ON PLANS OR DETAILS.



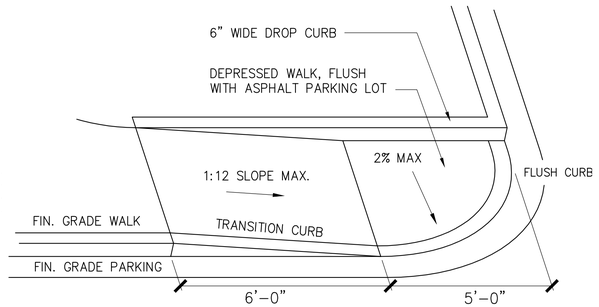
4 TYPICAL CONCRETE SIDEWALK (NON-SPORT) OR SHELTER PAD

SECTION — SCALE: 3/4" = 1'-0"



NOTES:

1. FLUSH CURB LENGTH AS NOTED ON PLANS. FLUSH CURB SECTIONS ARE TO MEET LEVEL WITH ASPHALT PAVEMENT SURFACES WITH NO REVEAL.
2. PROVIDE HEAVY BROOM FINISH ON ALL CONCRETE RAMP SURFACES WITH THE EXCEPTION OF THE DETECTABLE WARNING AREA.
3. LENGTH OF RAMP SHALL BE AS REQUIRED TO MAINTAIN A 1:12 SLOPE. FOR A TYPICAL 6" CURB REVEAL (AT THE TOP OF THE TRANSITION CURB SECTIONS) THE RAMP LENGTH WOULD TYPICALLY BE 6'-0" FROM THE BACK OF THE CURB.

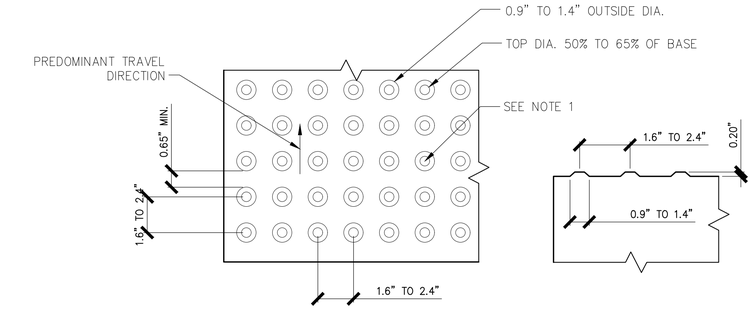


NOTES:

1. TRANSITION AND FLUSH SECTIONS SHALL BE CUT STRAIGHT OR TO THE PROPER RADIUS AS DESIGNATED ON LAYOUT PLANS.
2. FLUSH CURB LENGTH AS NOTED ON LAYOUT PLANS. FLUSH CURB SECTIONS ARE TO MEET LEVEL WITH ASPHALT PAVEMENT SURFACES WITH NO REVEAL.
3. LENGTH OF RAMP SHALL BE AS REQUIRED TO MAINTAIN A 1:12 SLOPE. FOR A TYPICAL 6" CURB REVEAL (AT THE TOP OF THE TRANSITION CURB SECTIONS) THE RAMP LENGTH WOULD TYPICALLY BE 6'-0" FROM THE BACK OF THE CURB.

7 ADA RAMP DETAIL

PLAN — SCALE: N.T.S.



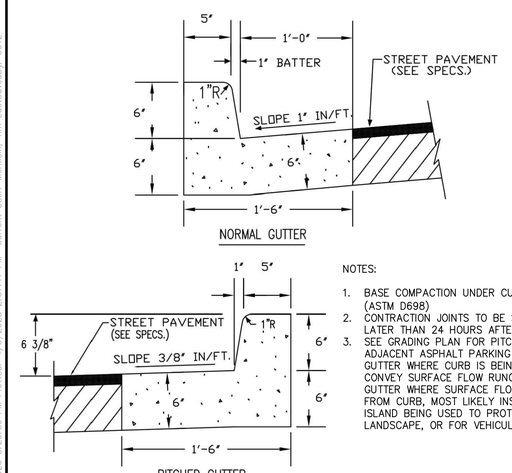
PARTIAL PLAN — PARTIAL SECTION

NOTES:

1. THE TRUNCATED DOME SURFACE SHALL CONTRAST VISUALLY WITH ADJOINING WALKING SURFACES DARK-ON-LIGHT. THE MATERIAL USED TO PROVIDE CONTRAST SHALL BE AN INTEGRAL PART OF THE TRUNCATED DOME SURFACE.
2. THE DETECTABLE WARNINGS SHALL EXTEND THE FULL WIDTH OF THE CURB RAMP, OR FLUSH SURFACE AS INDICATED ON LAYOUT PLAN.
3. DOMES SHALL BE ALIGNED ON A SQUARE GRID IN THE PREDOMINANT DIRECTION OF TRAVEL.
4. DETECTABLE WARNING PLATES SHALL BE NEENAH FOUNDRY BOLTED PLATES, OR APPROVED EQUAL. PAINT COLOR: RED

3 DETECTABLE WARNING SURFACE

SECTION — SCALE: 3/4" = 1'-0"

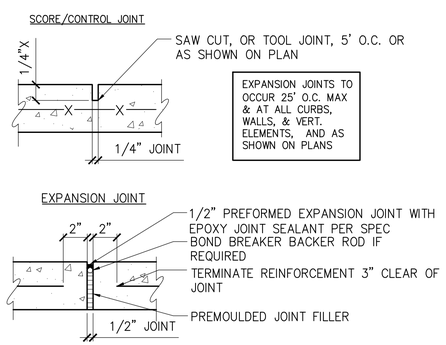


NOTES:

1. BASE COMPACTION UNDER CURB TO BE 98% (ASTM D698)
2. CONTRACTION JOINTS TO BE SAW CUT NO LATER THAN 24 HOURS AFTER THE POUR.
3. SEE GRADING PLAN FOR PITCH DIRECTION OF ADJACENT ASPHALT PARKING LOT. USE NORMAL GUTTER WHERE CURB IS BEING USED TO CONVEY SURFACE FLOW RUNOFF. USE PITCHED GUTTER WHERE SURFACE FLOW SLOPES AWAY FROM CURB, MOST LIKELY INSTANCES OF AN ISLAND BEING USED TO PROTECT A TREE, LANDSCAPE, OR FOR VEHICULAR CONTROL.

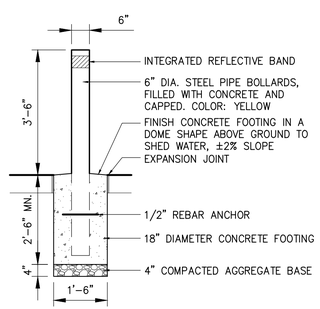
6 STANDARD CURB AND GUTTER

SECTION — SCALE: N.T.S.



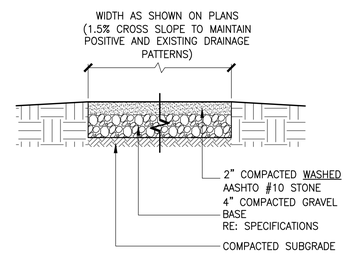
5 CONCRETE JOINT DETAILS

SECTION — SCALE: N.T.S.



2 BOLLARD

SECTION — SCALE: 1/2" = 1'-0"



NOTE: CROSS SLOPE FOR MULTI-USE CRUSHED AGGREGATE PATH MAY BE CROWNED FROM THE CENTER OF 8 FT PATH.

1 STONE DUST WALKING PATH

SECTION — SCALE: NTS

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DELTA ENGINEERING
RAYMOND
SDC Sustainable Design Consultants, LLC

GEORGIA REGISTERED PROFESSIONAL ENGINEER
No. PE026690
PATRICK N. GRAHAM
4-3-2025

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SITE DETAILS

Designed By:	Drawn By:	Checked By:
JM	JM	PG
Issue Date:	Project No.:	Scale:
09/30/24	080083	AS SHOWN

Drawing No.:
C-602

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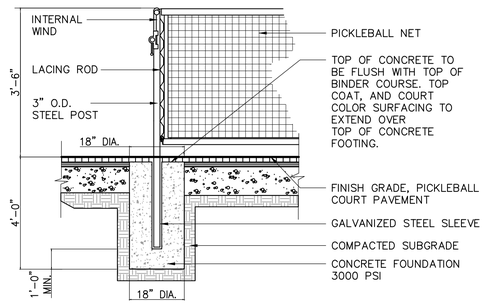
6 NOT USED

SCALE: N.T.S.

4 PICKLEBALL NET

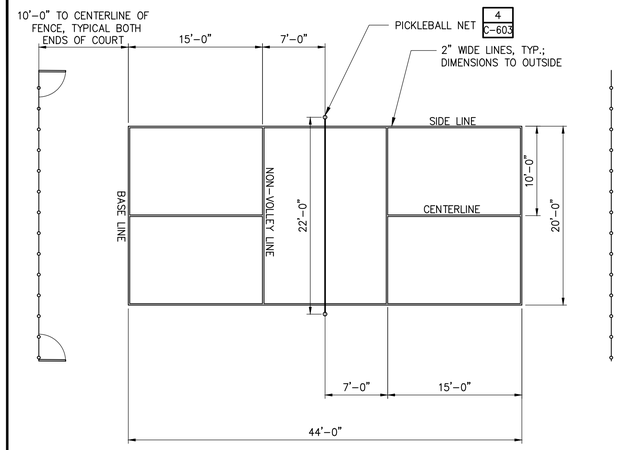
ELEVATION



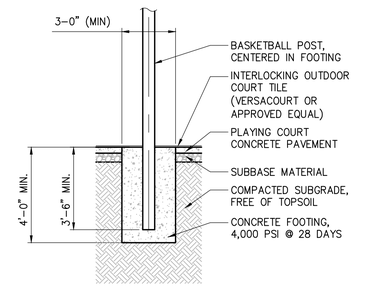
SCALE: N.T.S.

2 PICKLEBALL COURT STRIPING PLAN

PLAN

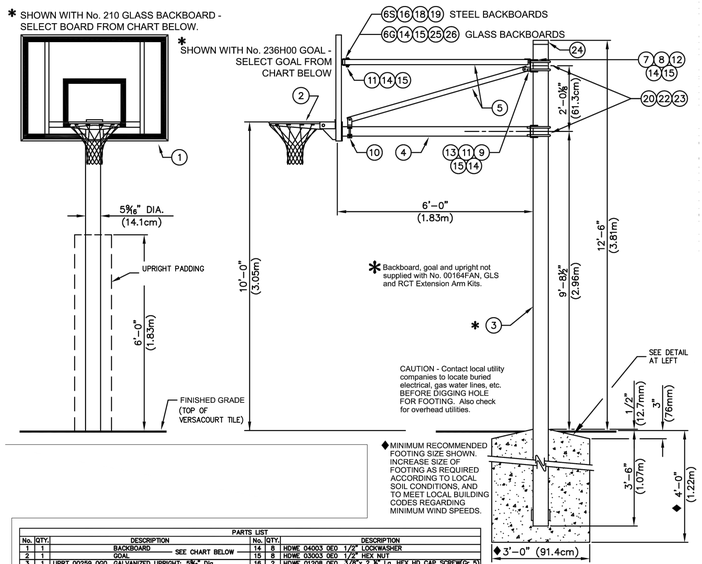


SCALE: 1/16" = 1'-0"



NOTES
1. INSTALL PER MANUFACTURER INSTRUCTIONS
2. DETAIL AT RIGHT IS BASED ON PORTER ATHLETIC BASKETBALL SYSTEM, OUTDOOR BACKSTOP, SEE SPECIFICATIONS.

6'-0" EXTENDED OUTDOOR SYSTEMS - FOR RECTANGULAR BACKBOARDS



PARTS LIST

No.	QTY.	DESCRIPTION	No.	QTY.	DESCRIPTION
1	1	BACKBOARD SEE CHART BELOW	14	8	HDWE 04003 OEO 1/2" LOCKWASHER
2	1	GOAL	15	8	HDWE 03003 OEO 1/2" HEX NUT
3	1	UPRT 00259 000 GALVANIZED UPRIGHT, 5⅝ø Dia.	16	2	HDWE 01208 OEO 3/8"x 2 ¾ Lg. HEX HD CAP SCREW(Gr 5)
4	1	EXTN 00051 009 GALVANIZED EXTENSION ARM, 3½ø Dia.	18	4	HDWE 04002 OEO 3/8" LOCKWASHER
5	3	TUBR 00461 000 GALVANIZED BRACE TUBE, 1¾ø Dia.	19	2	HDWE 03002 OEO 3/8" HEX NUT
6G	2	BRCE 000178 BRACE CLAMP, RECT GLASS BOARDS	20	4	UBOT 00012 OEO 5/8" U-BOLT, 5⅝ø Dia. Upright
6S	2	BRCE 000088 009 BRACE CLAMP, RECT STEEL BOARDS	22	8	HDWE 04008 OEO 5/8" LOCKWASHER
7	1	ANGL 00119 009 BRACE ANGLE	23	8	HDWE 03012 OEO 5/8" HEX NUT
8	1	CLMP 00044 000 MAST CLAMP	24	1	PCAP 00028 002 PIPE CAP
9	1	HING 00009 009 HINGE	25	4	HDWE 05017 1/2" FLAT WASHER SAE
10	1	XHNG 3010P 009 BRACE HANGER ASSEMBLY	26	2	HDWE 01164 OEO 1/2" x 2 1/2" HEX HD CAP SCREW (Gr 5)
11	3	HDWE 01140 OEO 1/2" x 3" Lg. HEX HD CAP SCREW (Gr 5)			
12	2	HDWE 01160 OEO 1/2" x 2¾" Lg. HEX HD CAP SCREW(Gr 5)			
13	1	HDWE 02055 OEO 1/2" x 1¾" Lg. CARRIAGE BOLT (Gr 5)			

5 BASKETBALL GOAL FOOTER AND BASKETBALL HOOP

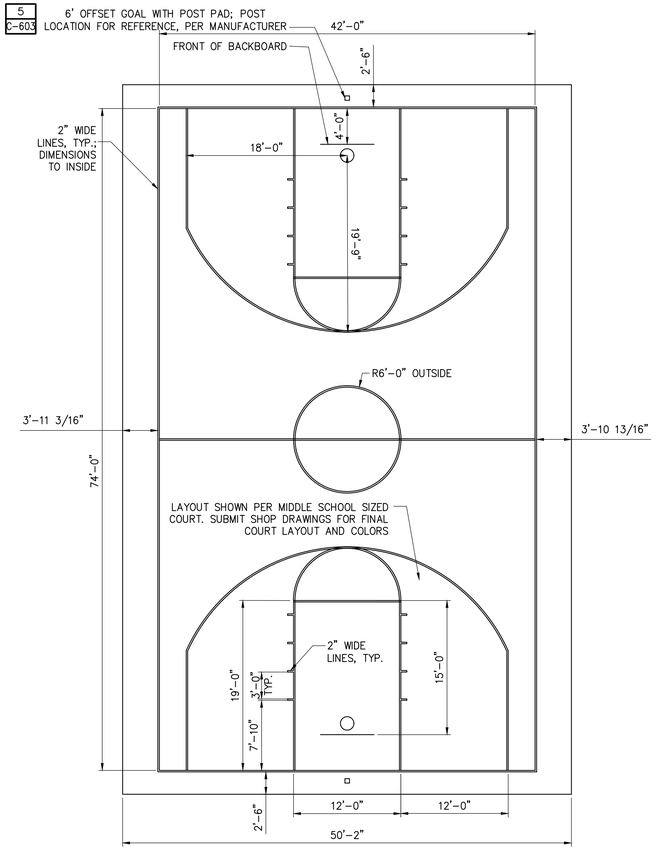
SECTION

SCALE: N.T.S.

5 C-603 6' OFFSET GOAL WITH POST PAD; POST LOCATION FOR REFERENCE, PER MANUFACTURER

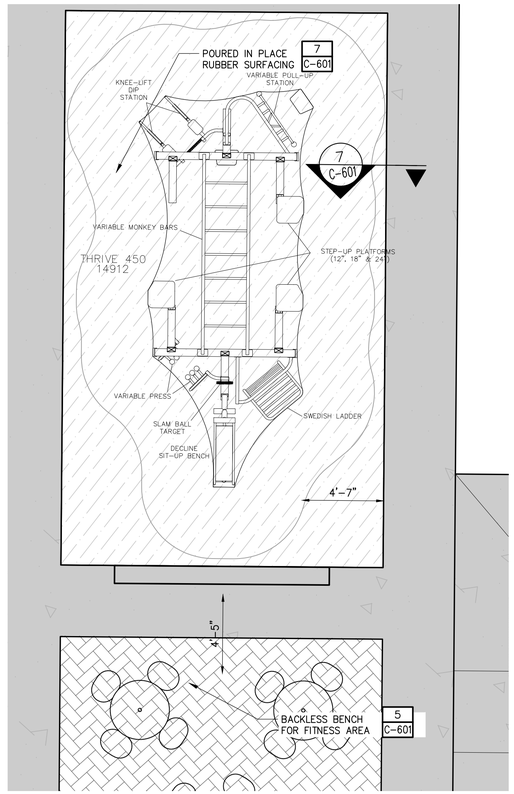
3 BASKETBALL COURT STRIPING PLAN

PLAN



SCALE: 1/16" = 1'-0"

NOTE - SEE INDIVIDUAL DRAWINGS FOR BACKBOARD, GOAL AND PADDING SPECIFICATIONS



GAME TIME THRIVE 450 OUTDOOR GYM
AVAILABLE FROM: GAMETIME.COM
MODEL NUMBER 14912

1 THRIVE 450 OUTDOOR GYM

PLAN

SCALE: 1" = 4'-0"

GEORGIA REGISTERED No. PE026690 PROFESSIONAL ENGINEER PATRICK N. GRAHAM
4-3-2025

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BIG OAK PARK IMPROVEMENTS

2803 WHEELER ROAD
AUGUSTA, GA 30909

No.	Submittal / Revision	Apv	By	Date
-	REVISED PERMIT SET	PG	AM	4-03-2025
-	REVISED PERMIT SET	PG	JM	8-5-2024
-	PERMIT SET	PG	JM	6-14-2024

SITE DETAILS

Designed By:	Drawn By:	Checked By:
JM	JM	PG
Issue Date:	Project No.:	Scale:
09/30/24	080083	AS SHOWN

Drawing No.:
C-603

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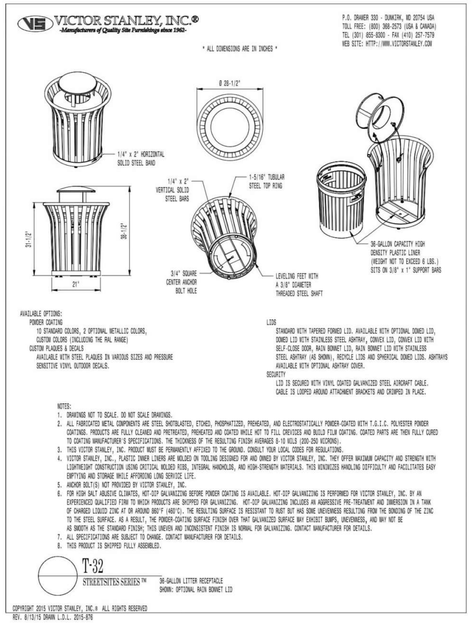
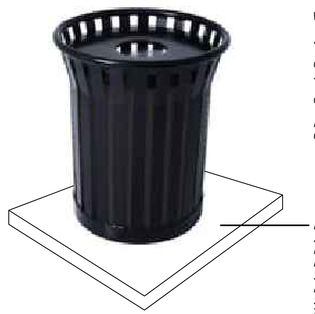




VICTOR STANLEY T-32 LITTER RECEPTACLE

AVAILABLE FROM: VICTORSTANLEY.COM

OPTIONS: WITH CONVEX LID WITH SELF-CLOSING DOOR

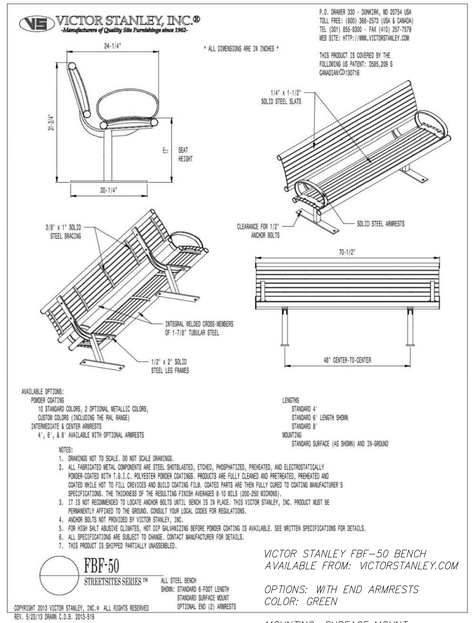
COLOR: GREEN

MOUNTING: SURFACE MOUNT OR EQUAL

PROVIDE 4" THICK CONCRETE PAD ADEQUATELY SIZED TO RECEIVE TRASH RECEPTACLE FOR SECURE MOUNTING PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. SUGGESTED MINIMUM 1'-0" OUTSIDE OF RECEPTACLE AS TO ALLOW MOW STRIP SURROUNDING BASE OF UNIT WHEN ADJACENT TO LANDSCAPE.

3 TRASH RECEPTACLE

ELEVATION — SCALE: N.T.S.



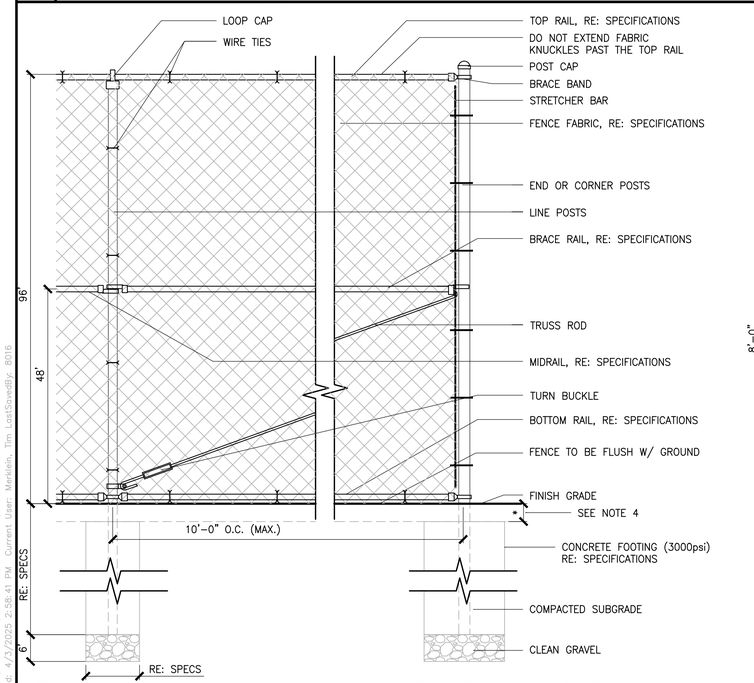
VICTOR STANLEY FBF-50 BENCH AVAILABLE FROM: VICTORSTANLEY.COM

OPTIONS: WITH END ARMRESTS
COLOR: GREEN

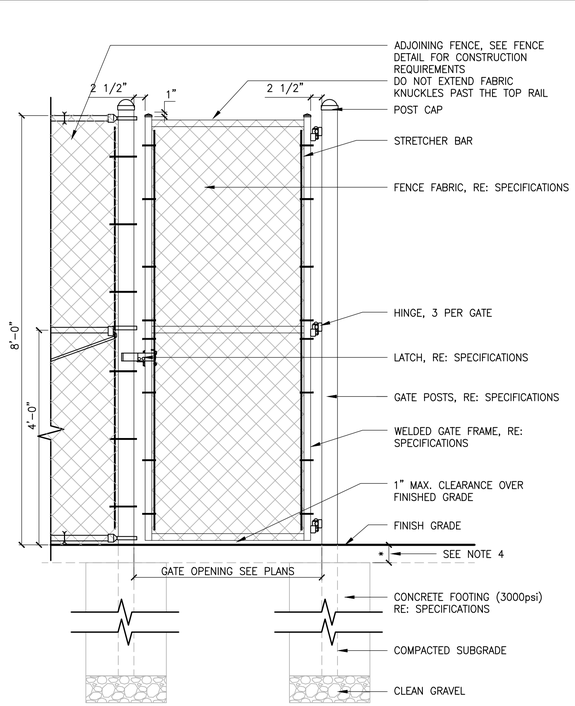
MOUNTING: SURFACE MOUNT OR EQUAL

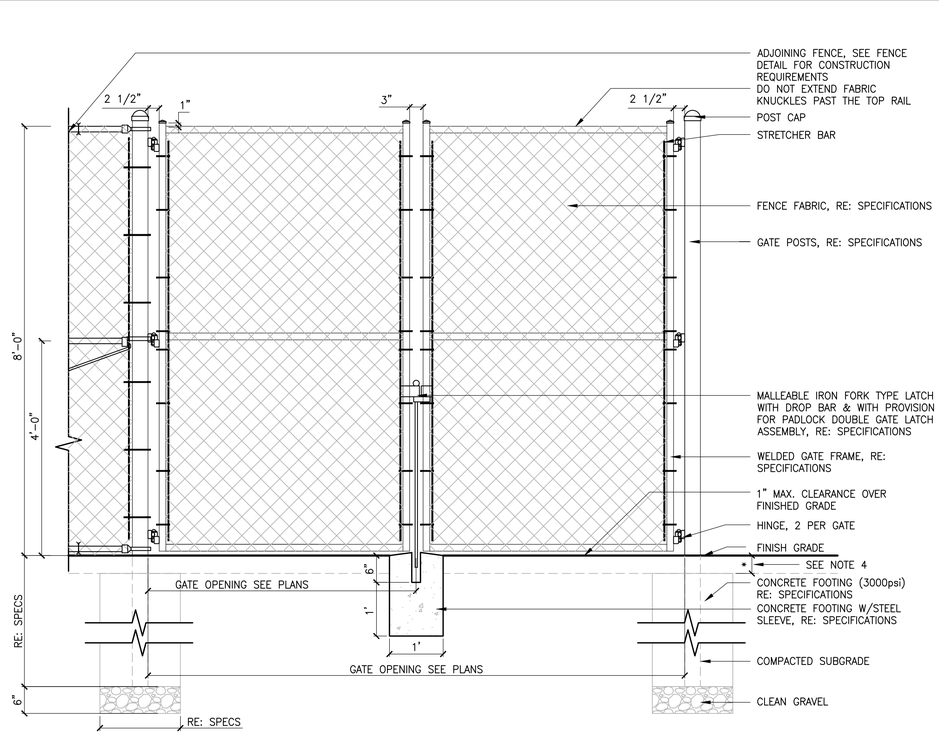
2 BENCH

ELEVATION — SCALE: N.T.S.



NOTES:
1. SEE SPECIFICATIONS FOR POST AND RAIL SIZING.
2. ALL POST FOOTINGS SHALL BE PER SPECIFICATIONS.
3. SEE SPECIFICATIONS FOR FENCE FINISH REQUIREMENTS.
4. HOLD DOWN TOP OF FOOTING BELOW BASKETBALL COURT CONCRETE PAVEMENT TO ALLOW CONTINUOUS COURT SURFACING UP TO BASE OF FENCE AT BASKETBALL COURT. HOLD DOWN TOP OF FOOTING BELOW PERIMETER THICKENED EDGE CURB AT PICKLEBALL COURTS.
5. WHERE ANY FENCE POST CONFLICTS WITH AIRNASIUM SPREAD FOOTER; EITHER 1)CORE THROUGH TO PROVIDE FULL DEPTH FOOTING, OR 2) FORM SLEEVE THRU FOOTER TO PROVIDE FULL DEPTH FOOTING, PER SPECIFICATIONS.





1 8' HEIGHT CHAIN LINK FENCE, SINGLE SWING GATE, DOUBLE SWING GATE

ELEVATION — SCALE: 3/4" = 1'-0"

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317 Tattnall Street
Savannah, GA 31401
912.721.6999 · www.chasolutions.com

Augusta GEORGIA RECREATION & PARKS
DELTA ENGINEERING
RAYMOND
SCD Sustainable Design Consultants, LLC

GEORGIA REGISTERED No. PE026690 PROFESSIONAL ENGINEER PATRICK N. GRAHAM
4-3-2025

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BIG OAK PARK IMPROVEMENTS

2803 WHEELER ROAD
AUGUSTA, GA 30909

No.	Submittal / Revision	Apv	By	Date
-	REVISED PERMIT SET	PG	AM	4-03-2025
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SITE DETAILS

Designed By:	Drawn By:	Checked By:
JM	JM	PG
Issue Date:	Project No.:	Scale:
09/30/24	080083	AS SHOWN

Drawing No.:
C-604

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Saved: 4/3/2025 10:05:52 AM Printed: 4/4/2025 8:58:48 AM Patrick Graham, Time Last Saved By: PGH6

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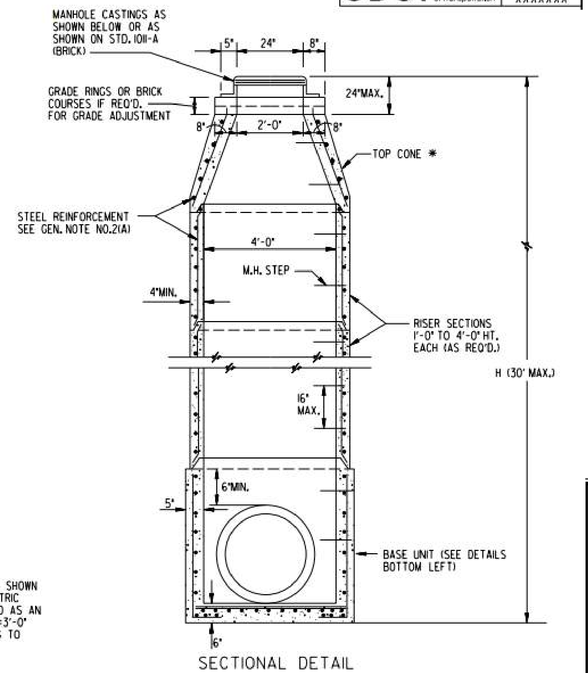
RAYMOND
Sustainable Design Consultants, LLC

GDOT Georgia Department of Transportation | P. I. No. XXXXXXX



* CONCENTRIC CONE SHOWN MIN. HT.=2'-0" ECCENTRIC CONES MAY BE USED AS AN ALTERNATE, MIN. HT.=3'-0" DESIGNED ACCORDING TO A.S.T.M. C-478

SECTIONAL DETAIL
(MANHOLE WITH BASE UNIT OF D= 48")

GENERAL NOTES:
1. MATERIALS: ALL CONCRETE, STEEL BARS AND STEEL WIRE REINFORCEMENT SHALL COMPLY WITH SECTION 866.02 OF GEORGIA STANDARD SPECIFICATIONS AND SPECIAL PROVISION WHICH MODIFY SECTION 866.02.

2. REINFORCEMENT:
   (A) PLACEMENT AND DESIGN OF STEEL REINFORCEMENT IN RISER UNITS, CONE SECTIONS, GRADE RINGS AND JOINTS SHALL BE IN COMPLIANCE WITH A.S.T.M. C-478 UNLESS OTHERWISE NOTED.
   (B) BASE UNITS, REDUCER SLABS AND FLAT TOP SLABS SHALL HAVE STEEL REINFORCEMENT AS SHOWN IN DETAILS AT LEFT.

3. OPENINGS FOR PIPES LARGER THAN 6 INCHES IN DIAMETER ARE TO BE PRECAST. A MINIMUM OF 6" ALONG THE INTERCIRCUMFERENCE IS TO REMAIN BETWEEN THE EXTREMITIES OF HOLE FOR ADJACENT PIPE IN ANY SINGLE UNIT. A MINIMUM OF TWO REINF. BARS SHALL REMAIN IN WALL BETWEEN ANY TWO OPENINGS.

4. THE CONTRACTOR WILL FURNISH THE FABRICATOR WITH THE ANGLE OF ALIGNMENT AND SIZE OF ALL PIPES TO ENTER MANHOLE AND THE HEIGHT OF STRUCTURE.

5. BASE UNITS SHALL HAVE SUFFICIENT HEIGHT TO ALLOW FOR MINIMUM OF 6" OF WALL BETWEEN TOP OF HIGHEST OPENING FOR PIPES AND BOTTOM OF JOINT.

6. INVERT CHANNELS:
   (A) FOR SANITARY SEWER MANHOLES SEE GEORGIA STANDARD SPECIFICATIONS FOR CHANNEL REQUIREMENTS.
   (B) FOR STORM SEWER MANHOLES, CHANNELS BUILT TO SUIT PIPE SIZE AND LOCATION. HEIGHT OF CHANNEL EQUAL TO ½ DIAMETER OF OUTLET PIPE. CHANNEL BUILT FROM GROUT OR CLASS "A" CONCRETE.

7. PIPES ARE TO BE EXTENDED INTO STRUCTURE WALL A MINIMUM OF 4" BUT SHOULD NOT EXTEND BEYOND INTERIOR WALL OF STRUCTURE.

8. ALL JOINTS, EXCEPT FOR GRADE RINGS AND TOP OF TOP CONE, SHALL HAVE TONGUE AND GROOVE SECTION.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
PRECAST REINFORCED CONCRETE MANHOLES

BY	REVISION	DATE
R.M.U.	CASTINGS & BASE U.	6-1-15

NOT TO SCALE | REDRAWN JULY 2024 | AUGUST 1973

DESIGNED G.C.L. R.M.U. (SUBMITTED) J. S. Trotter STATE ROAD DESIGN ENGINEER
DRAWN R.M.U. (APPROVED) STATE HIGHWAY ENGINEER
CHECKED J.B.C.

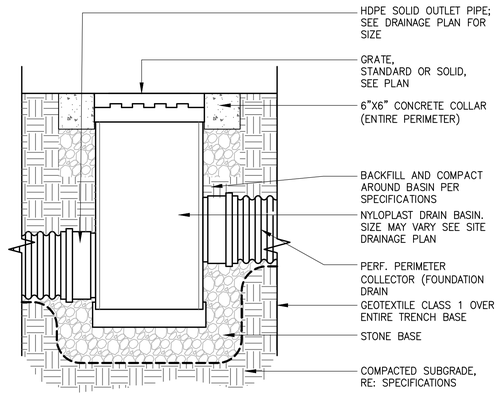
NUMBER 1011A PRECAST

5 4' DIA. MANHOLE WITH WIER
SECTION — SCALE: N.T.S.

BASE UNIT INSTALLMENT

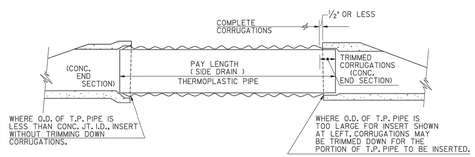
NOTES:
1. DOGHOUSE MANHOLE SHOWN FOR BIDDING PURPOSES. CONTRACTOR TO PROVIDE SHOP DRAWING FOR FINAL APPROVAL.
2. DOGHOUSE OPENINGS IN PRECAST UNITS SHALL HAVE A RADIUS OF 4 TO 8 INCHES LARGER THAN THE EXISTING PIPE DIAMETER.
3. CAST-IN-PLACE CONCRETE SHALL BE 4000 PSI, PER ASTM C-94
4. ALL PRECAST MANHOLE COMPONENTS SHALL MEET ASTM C-478
5. STRUCTURAL CALCULATIONS MUST BE SUBMITTED FOR APPROVAL PRIOR TO MANUFACTURE OF BASE AND TRANSITIONS SLABS.

4 DOGHOUSE MANHOLE
SECTION — SCALE: N.T.S.

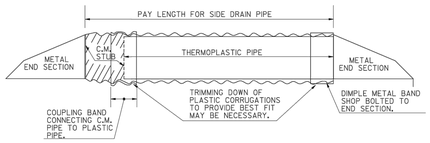


2 DRAIN BASIN
SECTION — SCALE: 1" = 1'-0": N.T.S.

CONCRETE TO THERMOPLASTIC SIDE DRAIN OR CROSS DRAIN CONNECTION ALTERNATES

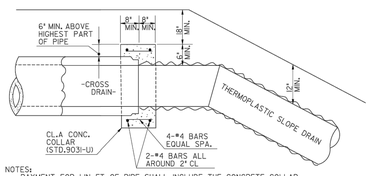


METAL TO THERMOPLASTIC SIDE DRAIN CONNECTION ALTERNATES
(SEE GENERAL NOTE NO. 5)



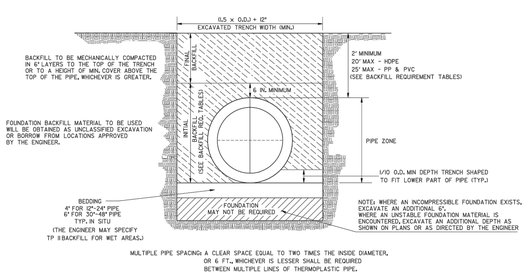
NOTE:
FOR PLASTIC SIDE DRAIN CONNECTIONS TO SAFETY END SECTIONS, SEE THE SMOOTH TAPERED SLEEVE CONNECTOR DETAILS (SEE GA STANDARD 1122 FOR SAFETY SLOPE END SECTIONS FOR SIDE DRAIN PIPES).

ALL CROSS DRAIN TYPES TO THERMOPLASTIC SLOPE DRAIN CONNECTION



NOTES:
PAYMENT FOR LIN. FT. OF PIPE SHALL INCLUDE THE CONCRETE COLLAR. CONCRETE COLLARS ARE ALSO PERMITTED FOR SIDE DRAIN CONNECTIONS. CONNECTIONS SHOWN ABOVE FOR SIDE DRAIN ARE NOT PERMITTED FOR SLOPE DRAIN CONNECTIONS.

THERMOPLASTIC PIPE TRENCH INSTALLATIONS



BACKFILL REQUIREMENT TABLES

STORM DRAIN INSTALLATIONS			
PIPE TYPE	MAX. FILL HEIGHT (FT)	INITIAL BACKFILL TYPE	FOUNDATION BACKFILL TYPE
HDPE	20	STRUCTURAL	CLASS 'IIB2' OR BETTER
PVC	25	STRUCTURAL	CLASS 'IIB1' OR BETTER
PP	25	STRUCTURAL	CLASS 'IIB3' OR BETTER

SIDE DRAIN (DRIVEWAY) INSTALLATIONS (FILL HEIGHTS UP TO 10-FT)			
PIPE TYPE	MAX. FILL HEIGHT (FT)	INITIAL BACKFILL TYPE	FOUNDATION BACKFILL TYPE
HDPE	10	CLASS 'IIB2' OR BETTER	CLASS 'IIB2' OR BETTER
PVC	10	CLASS 'IIB3' OR BETTER	CLASS 'IIB3' OR BETTER
PP	10	CLASS 'IIB3' OR BETTER	CLASS 'IIB3' OR BETTER

SIDE DRAIN (DRIVEWAY) INSTALLATIONS (FILL HEIGHTS ABOVE 10-FT)			
PIPE TYPE	MAX. FILL HEIGHT (FT)	INITIAL BACKFILL TYPE	FOUNDATION BACKFILL TYPE
HDPE	20	STRUCTURAL	CLASS 'IIB2' OR BETTER
PVC	25	STRUCTURAL	CLASS 'IIB3' OR BETTER
PP	25	STRUCTURAL	CLASS 'IIB3' OR BETTER

INITIAL BACKFILL & BEDDING QUANTITIES		
NOMINAL SIZE (IN.)	INITIAL BACKFILL (FT^3/LF)	BEDDING (FT^3/LF)
12	2.97	0.83
15	3.80	0.96
18	4.73	1.08
24	6.86	1.33
30	9.34	2.38
36	12.18	2.75
42	15.38	3.13
48	18.93	3.50

NOTE: BACKFILL AND BEDDING QUANTITIES IN THE ABOVE TABLE ARE BASED ON THE TYPICAL INSIDE DIAMETER OF PIPE - NOT THE OUTSIDE DIAMETER OF PIPE.

ALLOWABLE PIPE SIZES

HIGH DENSITY POLYETHYLENE (HDPE) AASHTO M 294	POLYPROPYLENE (PP) AASHTO M 330	PROFILE WALL POLYVINYL CHLORIDE (PVC) AASHTO M 304	CORRUGATED SMOOTH INTERIOR POLYVINYL CHLORIDE (PVC) ASTM F 949
NOMINAL SIZE (IN.)	NOMINAL SIZE (IN.)	NOMINAL SIZE (IN.)	NOMINAL SIZE (IN.)
12	12	12	12
15	15	15	15
18	18	18	18
24	24	21	21
30	30	24	24
36	36	30	30
42	42	36	36
48	48	42	
		48	

GENERAL NOTES:
1. SPECIFICATIONS: GEORGIA STANDARD, CURRENT EDITION & SUPPLEMENTS THERETO.
2. THE MINIMUM COVER SHALL BE 24" FOR STORM AND SIDE DRAINS AND 12" FOR SLOPE DRAIN PIPE.
3. THE MAXIMUM HEIGHT OF FILL SHALL BE:
   - 20' FOR HIGH DENSITY POLYETHYLENE (HDPE)
   - 25' FOR POLYVINYL CHLORIDE (PVC)
   - 25' FOR POLYPROPYLENE (PP)
4. MINIMUM PIPE STIFFNESS SHALL BE IN ACCORDANCE WITH AASHTO M 294, TYPE "S" FOR HDPE PIPE, AASHTO M 304 FOR PROFILE WALL PVC PIPE, AASHTO M 330 FOR PP PIPE, AND ASTM F 949 FOR CORRUGATED SMOOTH INTERIOR PVC PIPE.
5. METAL FLARED END SECTIONS PER STD. 1120 ARE PERMITTED ONLY WHERE THE PLANS LIST PLAIN CORRUGATED STEEL PIPE AS AN ALLOWABLE ALTERNATE FOR THE CULVERT.
6. GRADED AGGREGATE MEETING SECTION 815 SHALL BE USED FOR STRUCTURAL BACKFILL IN ACCORDANCE WITH BACKFILL REQUIREMENT TABLES AND WILL NOT BE PAID FOR SEPARATELY. PAYMENT WILL BE INCLUDED IN THE OVERALL PRICE BID FOR PIPE.
7. NORMAL BACKFILL MATERIAL MEETING SUBSECTION 810.2.01 MAY BE USED FOR SIDE DRAIN APPLICATIONS FOR FILL HEIGHTS UP TO 10 FT IN ACCORDANCE WITH TYPE AND CLASS LISTED IN THE BACKFILL REQUIREMENT TABLES. IF THE REQUIRED SOIL CLASS IS NOT AVAILABLE USE GRADED AGGREGATE MATERIAL MEETING SECTION 815.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD

THERMOPLASTIC PIPE

BY	REVISION	DATE
MAC	REV. INTL. BKFIL TO 6" MIN	1-24-19
	REV. INTL. BKFIL QUANTITIES	
	REV. CRUSH. ROCK TO AGG.	
	ADD MATERIALS SEC.	

NO SCALE | SEPTEMBER 2016

DESIGNED ____ (SUBMITTED) STATE DESIGN POLICY ENGINEER
TRACED
DRAWN B.J.G.
CHECKED W.D.T. (APPROVED) Margaret B. Pinkelt CHIEF ENGINEER

NUMBER 1030P

1 GDOT 1030P THERMOPLASTIC PIPE
SCALE: N.T.S.

GEORGIA REGISTERED PROFESSIONAL ENGINEER
No. PE026690
PATRICK N. GRAHAM
4-3-2025

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BIG OAK PARK IMPROVEMENTS

2803 WHEELER ROAD
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No.	Submittal / Revision	Apv	By	Date
-	REVISED PERMIT SET	PG	AM	4-03-2025
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SITE DETAILS

Designed By:	Drawn By:	Checked By:
JM	JM	PG
Issue Date:	Project No.:	Scale:
09/30/24	080083	AS SHOWN

Drawing No.:
C-605

File: V:\PROJECTS\ANY\X6\080083.000\09_DESIGN\DRAWINGS\01_SHEETS\C-605-080083-BOJ.DWG
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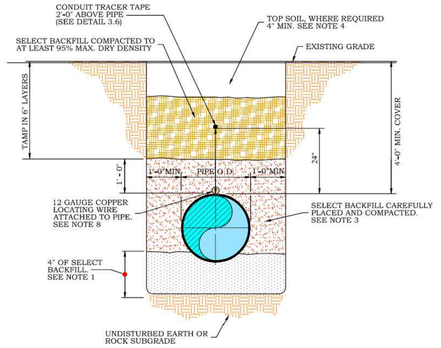


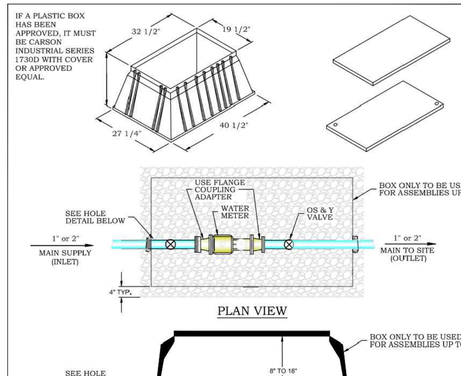
PROFILE VIEW

NOTES:
1. THE BOTTOM OF THE TRENCH SHALL BE ACCURATELY GRADED TO PROVIDE UNIFORM BEARING AND SUPPORT FOR EACH SECTION OF PIPE ON UNDISTURBED SOIL AT EVERY POINT ALONG ITS ENTIRE LENGTH UNLESS UNSUITABLE SUBSOIL IS ENCOUNTERED AT THE NORMAL TRENCH SUBGRADE. IF SUCH MATERIAL IS ENCOUNTERED, THE CONTRACTOR SHALL REMOVE IT TO THE DEPTH DIRECTED BY THE ENGINEER OF RECORD IN THE FIELD AND BACKFILL WITH D.O.T. CLASS 1, TYPE 1 AND 11 MATERIAL IN 4 INCH LAYERS.
2. BOTTOM OF TRENCH SHALL BE FREE OF WATER PRIOR TO PLACING BEDDING.
3. COMPACT SELECT BACKFILL IN LIFTS NOT TO EXCEED 6 INCHES.
4. PROVIDE 4 INCHES OF TOP SOIL WHERE BEDDING IS REQUIRED. SEE NOTE 5 AT GRAVEL AND PAVED AREAS.
5. GRAVEL AND PAVED DRIVEWAYS TO BE RESTORED IN KIND.
6. CONTRACTOR IS SOLELY RESPONSIBLE FOR TRENCH SAFETY INCLUDING SHEETING AND SHORING WHERE REQUIRED.
7. TRENCH BOTTOM SHALL NOT BE LESS THAN 12 INCHES OR MORE THAN 18 INCHES WIDER THAN THE OUTSIDE DIAMETER OF THE PIPE ON BOTH SIDES.
8. 12 GAUGE SINGLE STRAND COATED WIRE TO BE ATTACHED ON TOP OF WATER MAIN.
9. WIRE SHALL BE WRAPPED AROUND EACH CORPORATION A MINIMUM OF TWO WRAPS.
10. WIRE SHALL BE EXTENDED OUTSIDE OF EACH VALVE BOX AND WRAPPED AROUND THE VALVE BOX FOR EASY CONNECTION OF TRACING EQUIPMENT.

NO REVISION OR MODIFICATION OF THIS DETAIL SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL FROM AUGUSTA UTILITIES DEPARTMENT.

APPROVED JAN. 2024
REVISED: NOV. 2023

TYPICAL TRENCH - WATER MAIN	AUGUSTA UTILITIES DEPARTMENT 452 WALKER STREET, SUITE 200 AUGUSTA, GA 30901	Water Is Life AUGUSTA UTILITIES
AUD DETAIL 1.1		



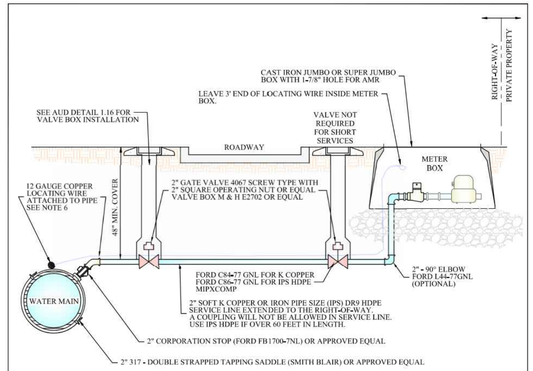
NOTE: PIPE CUTOUT HOLES MUST BE LARGER THAN WATER LINE AND SEALED WITH EXPANSION FOAM OR SILICONE CAULK INSIDE AND OUTSIDE THE BOX TO PREVENT DIRT AND WATER FROM ENTERING

HOLE DETAIL VIEW

NO REVISION OR MODIFICATION OF THIS DETAIL SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL FROM AUGUSTA UTILITIES DEPARTMENT.

APPROVED JAN. 2024
REVISED: NOV. 2023

WATER METER BELOW GROUND ENCLOSURE	AUGUSTA UTILITIES DEPARTMENT 452 WALKER STREET, SUITE 200 AUGUSTA, GA 30901	Water Is Life AUGUSTA UTILITIES
AUD DETAIL 1.6		



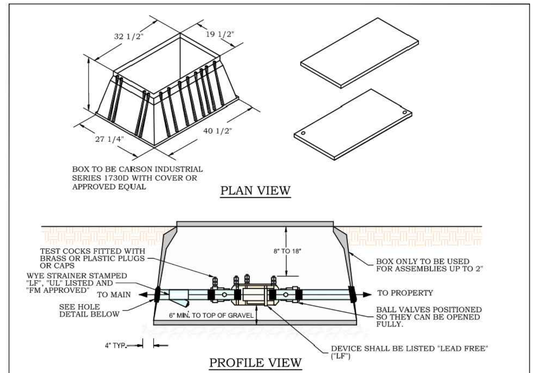
PROFILE VIEW

NOTES:
1. WATER METERS SHALL BE PURCHASED FROM AUGUSTA UTILITIES DEPARTMENT.
2. WATER METERS SHALL BE INSTALLED BY CONTRACTOR.
3. OVERSIZED METER BOXES ARE TO BE ROME (16"x22"x16") CAST IRON OR APPROVED EQUAL.
4. METER BOXES SHALL BE INSTALLED AND MAINTAINED BY THE DEVELOPER OR CONTRACTOR UNTIL THE RESIDENCE IS OCCUPIED.
5. NEW MAIN & SERVICES SHALL HAVE A MINIMUM OF 48" COVER UNLESS EXISTING MAIN DOES NOT ALLOW.
6. 12 GAUGE SINGLE STRAND COATED WIRE TO BE ATTACHED TO TOP OF WATER MAIN AND SERVICE LINE.
7. APPROVED ADAPTERS SHALL BE USED WHERE NECESSARY TO PROVIDE A TRANSITION BETWEEN PIPES AND/OR FITTINGS OF DIFFERING OUTSIDE DIAMETERS AND MATERIALS.
8. METER SHOULD BE LOCATED 1 FOOT INSIDE OF RIGHT OF WAY.
9. FOR CUT & CAP OF EXISTING SERVICE, TURN OFF GATE VALVE AND CORP STOP AND REMOVE CURB STOP. REMOVE BOX AND RETURN METER TO AUD INSPECTOR.

NO REVISION OR MODIFICATION OF THIS DETAIL SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL FROM AUGUSTA UTILITIES DEPARTMENT.

APPROVED JAN. 2024
REVISED: NOV. 2023

2" WATER METER & SERVICE	AUGUSTA UTILITIES DEPARTMENT 452 WALKER STREET, SUITE 200 AUGUSTA, GA 30901	Water Is Life AUGUSTA UTILITIES
AUD DETAIL 1.9		



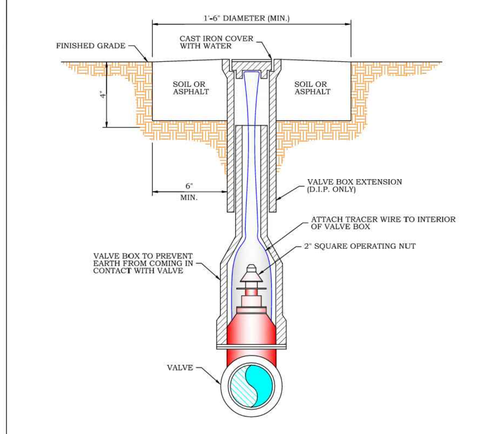
NOTE: PIPE CUTOUT HOLES MUST BE LARGER THAN WATER LINE AND SEALED WITH EXPANSION FOAM OR SILICONE CAULK INSIDE AND OUTSIDE THE BOX TO PREVENT DIRT AND WATER FROM ENTERING

HOLE DETAIL VIEW

NO REVISION OR MODIFICATION OF THIS DETAIL SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL FROM AUGUSTA UTILITIES DEPARTMENT.

APPROVED JAN. 2024
REVISED: NOV. 2023

DOUBLE CHECK VALVE ASSEMBLY BELOW GROUND (2" AND SMALLER)	AUGUSTA UTILITIES DEPARTMENT 452 WALKER STREET, SUITE 200 AUGUSTA, GA 30901	Water Is Life AUGUSTA UTILITIES
AUD DETAIL 1.18		



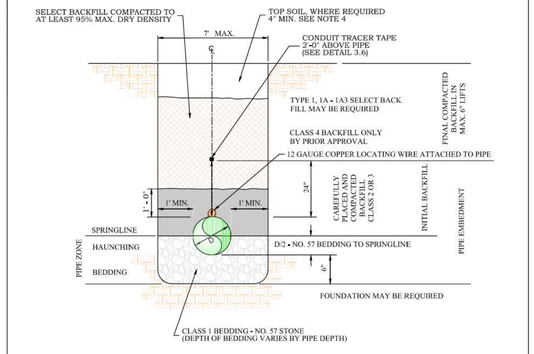
PROFILE VIEW

NOTE:
1. VALVE BOX EXTENSION SHALL BE APPROVED BY AUD.

NO REVISION OR MODIFICATION OF THIS DETAIL SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL FROM AUGUSTA UTILITIES DEPARTMENT.

APPROVED JAN. 2024
REVISED: NOV. 2023

VALVE BOX INSTALLATION	AUGUSTA UTILITIES DEPARTMENT 452 WALKER STREET, SUITE 200 AUGUSTA, GA 30901	Water Is Life AUGUSTA UTILITIES
AUD DETAIL 1.16		

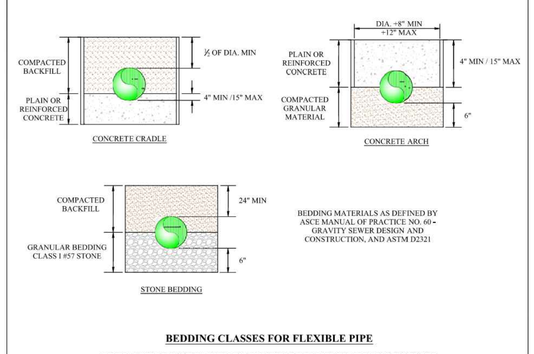


NOTES:
1. TRENCH EXCAVATION, BACKFILL AND COMPACTION SHALL BE IN STRICT CONFORMANCE WITH THE SECTION TITLED "BACKFILLING AROUND PIPE" FOR WASTEWATER COLLECTION SYSTEMS ACCORDING TO AUGUSTA UTILITIES DEPARTMENT STANDARDS AND SPECIFICATIONS.
2. BOTTOM OF TRENCH SHALL BE FREE OF WATER PRIOR TO PLACING BEDDING.
3. COMPACT SELECT BACKFILL IN LIFTS NOT TO EXCEED 6 INCHES.
4. PROVIDE 4 INCHES OF TOP SOIL WHERE BEDDING IS REQUIRED. SEE NOTE 5 AT GRAVEL AND PAVED AREAS.
5. GRAVEL AND PAVED DRIVEWAYS TO BE RESTORED IN KIND.
6. CONTRACTOR IS SOLELY RESPONSIBLE FOR TRENCH SAFETY INCLUDING SHEETING AND SHORING WHERE REQUIRED.
7. TRENCH BOTTOM SHALL NOT BE LESS THAN 12 INCHES OR MORE THAN 18 INCHES WIDER THAN THE OUTSIDE DIAMETER OF THE PIPE ON BOTH SIDES.
8. 12 GAUGE COPPER LOCATING WIRE SHALL BE 12 GAUGE SINGLE STRAND COATED. WIRE SHALL BE ATTACHED ON TOP OF SANITARY SEWER PIPE AND RAN VERTICALLY ALONG MANHOLES. ATTACH LOCATING WIRE ABOVE FINISH GRADE OF ALL MANHOLES USING CLIP AND SCREW WITH WIRE CONTINUOUS FROM MANHOLE TO MANHOLE.

NO REVISION OR MODIFICATION OF THIS DETAIL SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL FROM AUGUSTA UTILITIES DEPARTMENT.

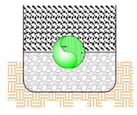
APPROVED JAN. 2024
REVISED: NOV. 2023

TYPICAL TRENCH - SANITARY SEWER	AUGUSTA UTILITIES DEPARTMENT 452 WALKER STREET, SUITE 200 AUGUSTA, GA 30901	Water Is Life AUGUSTA UTILITIES
AUD DETAIL 2.1		



BEDDING CLASSES FOR FLEXIBLE PIPE

GENERAL BEDDING AND BACKFILLING CONCEPTS DEVELOPED FOR FLEXIBLE SEWER PIPE MAY ALSO BE APPLIED TO RIGID PIPE. REFER TO ANSI AND ASTM SPECIFICATIONS # 57 STONE IS REQUIRED FOR BEDDING WITH PVC PIPE IN AUGUSTA - RICHMOND COUNTY.



CLASS 2 TRENCH BACKFILLED WITH COURSE SAND AND GRAVELS WITH MAX PARTICLE SIZE OF 1 ½", INCLUDING VARIOUSLY GRADED SANDS AND GRAVELS CONTINUING SMALL PERCENTAGES OF FINES. SOIL TYPES GW, GP, SW, AND SP ARE INCLUDED.

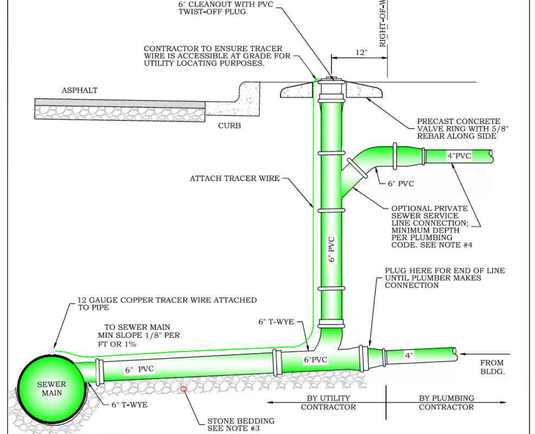
CLASS 3 TRENCH BACKFILLED WITH FINE SAND AND CLAYEY GRAVELS, INCLUDING FINE SANDS, SAND-CLAY MIXTURES, AND GRAVEL-CLAY MIXTURES. SOIL TYPES GM, GC, SM, AND SC ARE INCLUDED.

CLASS 4 MATERIAL ONLY USED WITH APPROVAL OF AUGUSTA UTILITIES DEPARTMENT.

NO REVISION OR MODIFICATION OF THIS DETAIL SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL FROM AUGUSTA UTILITIES DEPARTMENT.

APPROVED JAN. 2024
REVISED: NOV. 2023

BACKFILL CLASSES FOR SEWER PIPE INSTALLATION	AUGUSTA UTILITIES DEPARTMENT 452 WALKER STREET, SUITE 200 AUGUSTA, GA 30901	Water Is Life AUGUSTA UTILITIES
AUD DETAIL 2.2		



NOTE:
1. STREET RATED SEWER CLEANOUT CAP REQUIRED WHEN LOCATED IN PAVEMENT.
2. THERE WILL BE NO BENDS BETWEEN THE SEWER CLEAN-OUT AND THE SEWER TAP.
3. SEE DETAIL 2.2
4. THE BUILDER'S PLUMBER HAS THE OPTION TO CUT INTO THE STAND PIPE AND INSTALL A 6" WYE AS SHOWN TO MINIMIZE THE DEPTH OF CONNECTION. ANY DAMAGE TO THE SEWER SERVICE OR TAP SHALL BE THE BUILDER'S RESPONSIBILITY TO REPAIR. ALL REPAIRS OR REPLACEMENT SHALL BE IN ACCORDANCE WITH RICHMOND COUNTY SPECIFICATIONS.
5. CUT & CAP OF EXISTING SERVICE CAP CUSTOMER SIDE AND SET CLEAN-OUT AT RIGHT-OF-WAY.

NO REVISION OR MODIFICATION OF THIS DETAIL SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL FROM AUGUSTA UTILITIES DEPARTMENT.

APPROVED JAN. 2024
REVISED: NOV. 2023

SANITARY SEWER CLEANOUT	AUGUSTA UTILITIES DEPARTMENT 452 WALKER STREET, SUITE 200 AUGUSTA, GA 30901	Water Is Life AUGUSTA UTILITIES
AUD DETAIL 2.8		

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GEORGIA REGISTERED PROFESSIONAL ENGINEER
No. PE032668
Donna N. Blalock
4/3/2025
DONNA N. BLALOCK

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION 'ALTERED BY' FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

BIG OAK PARK
IMPROVEMENTS

2803 WHEELER ROAD
AUGUSTA, GA 30909

No.	Submittal / Revision	Apv	By	Date
E	REVISED PERMIT SET	PG	JM	4-3-2025
D	REVISED PERMIT SET	PG	JM	8-5-2024
C	PERMIT SET	PG	JM	6-14-2024
B	DESIGN DEVELOPMENT	PG	JM	4-15-2024
A	SCHEMATIC DESIGN	PG	JM	2-23-2024

UTILITY PLAN DETAILS

Designed By:	Drawn By:	Checked By:
DB	CS	DB
Issue Date:	Project No.:	Scale:
06/14/24	080083	AS SHOWN

Drawing No.:
C-606

LEGEND:

LIGHTING FIXTURES:

UPPERCASE LETTER ADJACENT TO FIXTURE DENOTES DESIGNATION PER THE LIGHTING FIXTURE SCHEDULE. LOWER CASE LETTER DENOTES SWITCHLEG. THE RESPECTIVE SWITCH WILL HAVE THE SAME DESIGNATION. NUMERAL DENOTES BRANCH CIRCUIT CONNECTION. FIXTURE TYPE ENDING WITH 'D' SUFFIX INDICATES FIXTURE THAT REQUIRES DIMMING BALLAST. (EXAMPLE FIXTURE TYPE 'A3D')
REFER TO THE FIXTURE SCHEDULE FOR SPECIFIC FIXTURE INFORMATION.
EMERGENCY FIXTURES SHALL HAVE FACTORY INSTALLED INTERNAL BATTERIES, PER SPECIFICATIONS.
NL SUFFIX ADJACENT TO FIXTURE TYPE DENOTES NIGHT LIGHT. DO NOT SWITCH THESE FIXTURES.

NON–EMERGENCY / EMERGENCY

LIGHTING FIXTURE: LINEAR LED

LIGHTING FIXTURE: LED, WALL MTD.

DOWNLIGHT/SCONCE FIXTURE

EXIT/AREA OF REFUGE LIGHT: UNIVERSAL MTD.

DIRECTIONAL FIXTURE: EMERGENCY TYPE

WIRING DEVICES:

RECEPTACLES:

NOMINAL MOUNTING HEIGHT OF RECEPTACLES SHALL BE 18" TO CENTER, UNO. IF APPLICABLE, ADJUST SO DEVICE COVER IS IN THE CENTER OF MASONRY COURSE NEAREST THAT HEIGHT. THE HEIGHT ESTABLISHED SHALL GOVERN FOR ALL BOX INSTALLATIONS, WHERE INSTALLED IN MASONRY OR FRAMED WALLS.

RECEPTACLE: DUPLEX

RECEPTACLE: GROUND–FAULT–INTERRUPTING–TYPE

ELECTRIC WATER COOLER POWER CONNECTION

HD HAND DRYER CONNECTION, SEE ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION.

SWITCHES:

MOUNTING HEIGHT OF SWITCHES SHALL BE 48" NOMINAL, ADJUSTED IN THE SAME MANNER AS SPECIFIED ABOVE, FOR RECEPTACLES. LOWER CASE LETTER INDICATES SWITCHLEG CONNECTION. THE RESPECTIVE FIXTURE(S) WILL HAVE THE SAME DESIGNATION.

S SWITCH: SINGLE–POLE

S3 SWITCH: THREE–WAY TYPE

OS SWITCH: OCCUPANCY SENSOR, CEILING MOUNTED

OS SWITCH: OCCUPANCY SENSOR, WALL MOUNTED W/DIMMER CONTROL AND OFF SWITCHES

VS SWITCH: VACANCY SENSOR, WALL MOUNTED W/DIMMER CONTROL AND OFF SWITCHES

So SWITCH: SENSOR OVERIDE, WALL MOUNTED W/DIMMER CONTROL AND OFF SWITCHES

Do SWITCH: LED DIMMER, 0–10V W/ ON–OFF SWITCH, COMPATIBLE WITH OCCUPANCY/VACANCY SENSOR IN SPACE

PHOTOCELL

DEVICE IDENTIFIER TAGS:

NUMERAL ADJACENT TO DEVICE DENOTES BRANCH CIRCUIT CONNECTION. IDENTIFIER TAGS ADJACENT TO DEVICES INDICATE:

C MOUNT ABOVE COUNTERTOP OR BACKSPLASH, 6" ABOVE WORK SURFACE TO CENTER.

xx" MOUNT DEVICE AT HEIGHT INDICATED.

WP PROVIDE WEATHER–PROOF COVER.

TV MOUNT DEVICE AT 72"AFF, ADJACENT TO TV RECEPTACLE

ELECTRICAL EQUIPMENT:

REFER TO ONE–LINE DIAGRAM AND EQUIPMENT CONNECTION SCHEDULE FOR LOAD DATA USED AS THE BASIS OF DESIGN AND REQUIRED CONNECTIONS. VERIFY LOAD AND LOCATION WITH EQUIPMENT CUT–SHEETS AND INSTALLER.

NON–FUSIBLE DISCONNECT SWITCH

FUSIBLE DISCONNECT SWITCH, 30A/2/1/30F

PANELBOARD: LIGHTING–TYPE, SURFACE MOUNTED

PANELBOARD: LIGHTING–TYPE, FLUSH MOUNTED

XX–1 EQUIPMENT AS NOTED, SEE ABBREVIATION LIST, THIS SHEET

PC PHOTOCELL: LOCATE UNDER EAVES, FACING NORTH, AVOID ANY OTHER OUTSIDE LIGHT SOURCE

BRANCH CIRCUITS:

CONDUCTOR COUNTS ARE SHOWN ON HOMERUNS ONLY. CONTRACTOR SHALL DETERMINE COUNTS FOR INTERMEDIATE RUNS BASED ON THE MANNER IN WHICH CIRCUIT ELEMENTS ARE CONNECTED. REFER TO SPECIFICATION SECTIONS 262010, 262080, & 262030 FOR SPECIAL REQUIREMENTS.

BRANCH CIRCUIT: CONCEALED

BRANCH CIRCUIT: CONCEALED IN FLOOR SLAB

BRANCH CIRCUIT: EXPOSED

LA–1,3,5 'HOMERUN' TO PANEL: NUMBER OF HASH MARKS INDICATE QUANTITY OF NO. 12 AWG UNGROUNDED CONDUCTORS IN 3/4" RACEWAY. GROUNDED CONDUCTORS (NEUTRALS) ARE NOT SHOWN – ONE DEDICATED NEUTRAL IS REQUIRED FOR EACH UNGROUNDED CONDUCTOR INSTALLED, SEE SPECIFICATIONS. EACH CONDUCTOR SHALL BE NO. 12 AWG UNLESS NOTED OTHERWISE.

MISCELLANEOUS COMPONENTS:

JB JUNCTION BOX: MOUNTED ABOVE CEILING

JB JUNCTION BOX: WALL MOUNTED

COMMUNICATIONS BACKBOARD: 3/4" THICK FIRE RATED TYPE AC PLYWOOD PAINTED, 4' HIGH, LENGTH AS INDICATED, SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

CONNECTION TO GROUNDING ELECTRODE

60/3 CIRCUIT BREAKER: TRIP/POLES INDICATED

SPACE FOR FUTURE CIRCUIT BREAKER

TELECOMMUNICATIONS:

THE CONTRACTOR SHALL PROVIDE ROUGH–IN FOR ALL DEVICES AND WIRING. VERIFY ADJACENCY TO CORRESPONDING POWER RECEPTACLES. OUTLETS SHALL BE INSTALLED AT THE SAME HEIGHT AS CORRESPONDING POWER OUTLETS, UNO. OTHER DEVICES WHOSE LOCATIONS ARE NOT DEPENDENT ON RECEPTACLE PLACEMENT SHALL BE COORDINATED WITH SYSTEM INSTALLER.

WALL MTD. TELECOMMUNICATION OUTLET–(1) CAT 6 UTP CABLE FROM TELECOMMUNICATION BACKBOARD, VERIFY LOCATION PRIOR TO PULLING.

WALL MTD. CATV OUTLET–(1) RG–6 CABLE FROM IT ROOM,VERIFY LOCATION PRIOR TO PULLING. MTD. AT 60"AFF, UNO.

19"W x 84"H TIA RACK WITH VERTICAL WIRE MANAGEMENT CHANNELS

CONDUIT SLEEVE: NUMBER & SIZE, 2–4" TYP., UNO

GENERAL NOTES:

1. WHERE COMPLETE BRANCH CIRCUIT WIRING IS NOT SHOWN, PROVIDE ACCORDING TO HOMERUNS SHOWN AND CORRESPONDING CIRCUIT NUMBERS ADJACENT TO THE DEVICE OR FIXTURE. REFER TO THE SPECIFICATIONS FOR WIRING METHODS. BRANCH CIRCUIT RATINGS SHALL BE BASED ON OVERCURRENT DEVICE RATINGS SHOWN IN THE PANEL SCHEDULES.
2. REFER TO THE ELECTRICAL PANELBOARD SCHEDULES AND EQUIPMENT RATINGS & CONNECTIONS SCHEDULE FOR VOLTAGE, BRANCH CIRCUITS REQUIREMENTS, BREAKERS SIZES AND OTHER RELATED ELECTRICAL EQUIPMENT TO BE PROVIDED AND/OR INSTALLED BY THE ELECTRICAL CONTRACTOR.

ABBREVIATIONS:

A	AMPERES
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AH	AIR HANDLER
AIC	AMPERAGE INTERRUPT CAPABILITY
AWG	AMERICAN WIRE GAUGE
C.	CONDUIT
CU	CONDENSING UNIT
DIA	DIAMETER
EF	EXHAUST FAN
EH	ELECTRIC HEATER
G	GROUND
GFI	GROUND–FAULT INTERRUPTING
KCMIL	KILO CIRCULAR MIL
MB	MAIN BREAKER
MCA	MINIMUM CIRCUIT AMPS
MIN	MINIMUM
MOCP	MAXIMUM OVERCURRENT PROTECTION
MTD	MOUNTED
No.	NUMBER
NEC	NATIONAL ELECTRIC CODE
NTS	NOT TO SCALE
RGS	RIGID GALVANIZED STEEL
RTU	ROOFTOP UNIT
SPD	SURGE PROTECTION DEVICE
SWBD	SWITCHBOARD
TBB	TELECOMMUNICATIONS BACK BOARD
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
V	VOLTAGE
W	WATTAGE
W/	WITH
WH	WATER HEATER
WP	WEATHER PROOF

ELECTRICAL SPECIFICATIONS

1. GENERAL PROVISIONS:

   APPLICABLE PROVISIONS OF THE STATE AND LOCAL CODES AND OF THE NATIONAL ELECTRICAL CODE (NFPA NO. 70), CURRENTLY ADOPTED EDITION, ARE HEREBY IMPOSED ON A GENERAL BASIS FOR ELECTRICAL WORK.

   PROVIDE ALL LABOR, MATERIALS, EQUIPMENT AND SUPERVISION TO CONSTRUCT A COMPLETE AND OPERABLE ELECTRICAL SYSTEM. ALL MATERIALS AND EQUIPMENT USED SHALL BE NEW, UNDAMAGED AND FREE FROM ANY DEFECTS.

2. MATERIALS:

   A. ALL MATERIALS SHALL CONFORM TO U.L. & NEMA REQUIREMENTS AND SHALL BE AS SPECIFIED OR "PRIOR APPROVED EQUAL" BY THE ENGINEER.

   B. RACEWAY SYSTEM: ALL CONDUITS AND RACEWAYS SHALL BE INSTALLED CONCEALED IN FINISHED SPACES. CONCEALED CONDUITS SHALL BE EMT, IMC OR RGS. ROUTE ALL CONDUITS AND RACEWAYS PARALLEL AND PERPENDICULAR TO THE STRUCTURE AND SUPPORT AS REQUIRED BY THE NEC. ALL EXPOSED EXTERIOR OR WET LOCATED BRANCH CIRCUIT OR FEEDER RACEWAYS SHALL BE RGS OR IMC CONDUIT. ALL UNDERGROUND BRANCH CIRCUIT OR FEEDER RACEWAYS SHALL BE PVC CONDUIT. EXPOSED CONDUITS IN MECHANICAL SPACES AND CLOSETS SHALL BE RGS OR IMC. EXPOSED CONDUITS IN FINISHED SPACES SHALL BE SURFACE METAL RACEWAY (WIREMOLD). CONNECTORS/COUPLINGS FOR USE WITH EMT CONDUIT SHALL BE STEEL COMPRESSION TYPE, EXCEPT THAT STEEL, SET SCREW TYPE WILL BE ACCEPTABLE FOR EMT CONDUIT SIZES 2–1/2" AND LARGER. SUPPORT RACEWAY SYSTEM USING WOOD SCREWS TO WOOD; BY TOGGLE BOLTS ON HOLLOW MASONRY UNITS; BY CONCRETE INSERTS OR EXPANSION BOLTS ON CONCRETE OR BRICK; BY MACHINE SCREWS, WELDED THREADED STUDS, OR SPRINGTENSION CLAMPS ON STEEL WORK. CONDUIT SUPPORTS SHALL BE TWO–HOLE STRAPS, WALL BRACKETS, HANGERS OR CEILING TRAPEZE.

   C. BOXES: PROVIDE GALVANIZED STEEL OUTLET BOXES WITH STAMPED KNOCKOUTS FOR INTERIOR DRY LOCATIONS. PROVIDE CAST ALUMINUM BELL TYPE FOR ALL EXTERIOR WET LOCATIONS. INTERIOR FLUSH BOXES SHALL BE 4" SQUARE BY 1–1/4" DEEP. INTERIOR FLUSH BOXES FOR COMMUNICATION OUTLETS AND GFCI OUTLETS SHALL BE 4–11/16" SQUARE BY 2–1/8" DEEP. PROVIDE SINGLE GANG TILE COVERS UNLESS REQUIRED OTHERWISE.

   D. GRADE LEVEL PULL BOXES: BOXES SHALL BE QUASITE COMPOSOLITE TYPE. PROVIDE SIZE AS INDICATED ON THE DRAWINGS. PROVIDE STACKABLE SECTIONS TO ACHIEVE BURIAL DEPTH FOR SPECIFIED FOR CONDUITS. BOXES SHALL HAVE OPEN BOTTOM AND LOCKING COVER WITH "ELECTRICAL" OR "COMMUNICATIONS" LOGO AS APPROPRIATE. PULL BOXES SHALL BE RATED FOR LIGHT VEHICULAR TRAFFIC. ENCASEMENT IS REQUIRED ONLY IF DIRECTED BY MANUFACTURER TO OBTAIN RATING.

   E. WIRE AND CABLES: CONDUCTORS SHALL BE COPPER, TYPE THHN OR THWN. CONDUCTORS SHALL BE COLOR CODED.

   F. WIRING DEVICES: PROVIDE WIRING DEVICES PRODUCED BY ONE OF THE FOLLOWING MANUFACTURERS: HUBBELL, LEVITON, OR COOPER. RECEPTACLES SHALL BE SPECIFICATION GRADE HEAVY–DUTY TYPE RECEPTACLES 2–POLE, 3–WIRE GROUNDING, SIDE WIRING, NEMA 5–20R, 20–AMP, 125 VOLTS, UNLESS SHOWN OTHERWISE. LIGHT SWITCHES SHALL BE RATED 20 AMPS. OCCUPANCY SENSORS SHALL BE DUAL TECHNOLOGY TYPE. SENSORS SHALL BE MANUFACTURER'S RECOMMENDED SIZE AND MODEL FOR EACH SPACE. EXACT LOCATION OF SENSORS SHALL BE AS DETERMINED BY MANUFACTURER IN SHOP DRAWING. ACCEPTABLE SENSOR MANUFACTURERS: HUBBELL BUILDING AUTOMATION, WATTSTOPPER, COOPER.

   G. LIGHTING FIXTURES: PROVIDE LIGHTING FIXTURES AS INDICATED ON THE FIXTURE SCHEDULE. ALL LED FIXTURES SHALL BE EQUIPPED WITH ELECTRONIC DRIVERS. FIXTURE CATALOG NUMBERS INDICATE STYLE OF FIXTURE REQUIRED. PROVIDE FIXTURES WITH PROPER FRAMES FOR CEILING TYPES INDICATED ON THE REFLECTED CEILING PLAN. EMERGENCY FIXTURES SHALL BE PROVIDED WITH FACTORY INSTALLED EMERGENCY BATTERY BALLASTS. NOT LESS THAN ONCE EVERY 30 DAYS, SELF–TESTING/SELF–DIAGNOSTIC BATTERY–OPERATED EMERGENCY LIGHTING EQUIPMENT SHALL AUTOMATICALLY PERFORM A TEST WITH A DURATION OF A MINIMUM OF 30 SECONDS AND A DIAGNOSTIC ROUTINE AND SHALL INDICATE FAILURES BY A VISIBLE STATUS INDICATOR ONLY. THE BATTERY SHALL BE CAPABLE OF OPERATING FIXTURE AT 50% LUMEN OUTPUT FOR 90 MINUTES. PROVIDE ALL LOW–VOLTAGE CABLES REQUIRED FOR DIMMABLE FIXTURES AND COORDINATE DIMMER SWITCH AND DRIVER FOR COMPATIBILITY.

   H. PANELBOARDS: PROVIDE PANELBOARDS PRODUCED BY ONE OF THE FOLLOWING MANUFACTURERS: GE, SIEMENS, SQUARE D, OR CUTLER HAMMER. PROVIDE PANELBOARDS OF THE TYPE, SIZE, AND RATING INDICATED. LIGHTING AND APPLIANCE TYPE PANELBOARDS SHALL BE A MINIMUM OF 20" WIDE. PANELS SHALL BE EQUIPPED WITH COPPER BUS BARS, FULL–SIZED NEUTRAL BAR, AND A GROUND BUS. CIRCUIT BREAKERS SHALL BE BOLT–IN TYPE, HEAVY–DUTY, QUICK–MAKE, QUICK–BREAK MOLDED CASE CIRCUIT BREAKERS. MULTI–POLE BREAKERS SHALL BE COMMON TRIP WITH A SINGLE HANDLE. PROVISIONS FOR FUTURE BREAKERS SHALL BE FULLY BUSSED COMPLETE WITH ALL NECESSARY MOUNTING HARDWARE. PROVIDE LAMINATED PLASTIC NAMEPLATE. CIRCUIT BREAKERS TO BE INSTALLED IN EXISTING PANELBOARDS SHALL MATCH EXISTING TYPE CIRCUIT BREAKERS. PROVIDE NEW/UPDATED SCHEDULES FOR ALL PANELBOARDS.

   I. GROUNDING: ELECTRICAL GROUNDING SHALL COMPLY WITH ARTICLE 250 OF THE NEC. PROVIDE ELECTRICAL BRAZING OR EXOTHERMIC CONNECTORS AND TERMINALS. BOLTED CLAMP WILL NOT BE ACCEPTED BETWEEN GROUNDING RODS AND GROUND CONDUCTORS. BOND EQUIPMENT GROUNDING CONDUCTORS TO ALL OUTLET BOXES WITH A SCREW USED FOR NO OTHER PURPOSE. CONNECT EQUIPMENT GROUNDING CONDUCTOR TO DEVICE GROUNDING TERMINALS. PROVIDE BARE OR GREEN INSULATED STRANDED COPPER SIZED ACCORDING TO NEC OR AS SHOWN. GROUND RODS SHALL BE 3/4" DIAMETER X 10' COPPER–CLAD STEEL, SECTIONAL TYPE.

   J. DISCONNECT SWITCHES: PROVIDE DISCONNECTS PRODUCED BY ONE OF THE FOLLOWING MANUFACTURERS: GE, SIEMENS, SQUARE D, OR CUTLER HAMMER. PROVIDE HEAVY DUTY TYPE, SHEET STEEL ENCLOSED SAFETY SWITCHES, INCORPORATING QUICK–BREAK TYPE SWITCHES. ALL SWITCHES SHALL BE UL LISTED. DISCONNECTS SHALL BE NON–FUSED TYPE, UNO.

   K. SPD: PROVIDE SPD UNITS CONNECTED IN PARALLEL WITH POWER DISTRIBUTION EQUIPMENT. SPD UNITS SHALL BE MOUNTED EXTERNAL TO POWER DISTRIBUTION EQUIPMENT. THE USE OF SPD UNITS INTEGRAL WITH POWER DISTRIBUTION EQUIPMENT IS NOT ACCEPTABLE. PROVIDE SPD UNITS BY THE FOLLOWING MANUFACTURERS/SERIES: SURGE SUPPRESSION, INC, CURRENT TECHNOLOGIES TG, AND ADVANCED PROTECTION TECHNOLOGIES. SPD FOR SERVICE EQUIPMENT SHALL BE AS FOLLOWS: SINGLE PULSE SURGE CAPACITY PER MODE: 150,000 AMPS AND MODES: L–L, L–N, AND L–G. ALL UNITS SHALL HAVE THE FOLLOWING FEATURES: PHASE LED INDICATOR LIGHTS, DISTURBANCE COUNTER, 5–YEAR REPAIR/REPLACEMENT WARRANTY FROM MANUFACTURER IN THE NAME OF THE OWNER. INSTALL SPD UNITS ADJACENT TO ELECTRICAL EQUIPMENT, ENSURING THAT LEAD LENGTHS ARE AS SHORT AS POSSIBLE TO ACHIEVE MAXIMUM PROTECTION. CONNECT TO CIRCUIT BREAKER IN ELECTRICAL EQUIPMENT AS SHOWN ON THE MANUFACTURER'S WIRING DIAGRAMS.

4. REFER TO ARCHITECTURAL SECTION FOR LOCATION OF FIRE RATED WALLS AND CEILINGS. ALL OUTLETS, FIXTURES, AND THROUGH PENETRATIONS SHALL BE MADE IN ACCORDANCE WITH THE NFPA 70 AND THE UL DESIGN No. OF THE TYPE OF CONSTRUCTION ENCOUNTERED.
5. SUBMITTALS: SUBMIT TO THE ARCHITECT FOR APPROVAL BEFORE BEGINNING CONSTRUCTION THE FOLLOWING:

   A. DATA SHEETS ON ALL ITEMS LISTED ABOVE.

   B. SCALED LAYOUT OF ELECTRICAL SPACES BASED ON THE ELECTRICAL EQUIPMENT BEING INSTALLED.

   C. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL HVAC CONNECTION REQUIREMENTS WITH HVAC CONTRACTOR PRIOR TO ORDERING ELECTRICAL GEAR. HVAC UNITS SELECTED BY CONTRACTOR MAY DIFFER SLIGHTLY FROM THOSE IN THE BASIS OF DESIGN. ANY DIFFERENCES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.

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GEORGIA REGISTERED No. 26308 PROFESSIONAL ENGINEER WARREN R. LAW

SCD

BID SET

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BIG OAK PARK
IMPROVEMENTS
2803 BOY SCOUT ROAD
AUGUSTA, GA 30909

No.	Submittal / Revision	App'd.	By	Date
D	BID SET	WRL	WFS	05/19/2025
C	PERMIT SET	WRL	WFS	06/17/2024
B	DESIGN DEVELOPMENT	WRL	WFS	04/15/2024
A	SCHEMATIC DESIGN	WRL	WFS	02/23/2024

ELECTRICAL LEGEND

Designed By:	Drawn By:	Checked By:
WRL	WLS	WRL
Issue Date: 09/30/2024	Project No: 080083	Scale: AS SHOWN

Drawing No:
E-001

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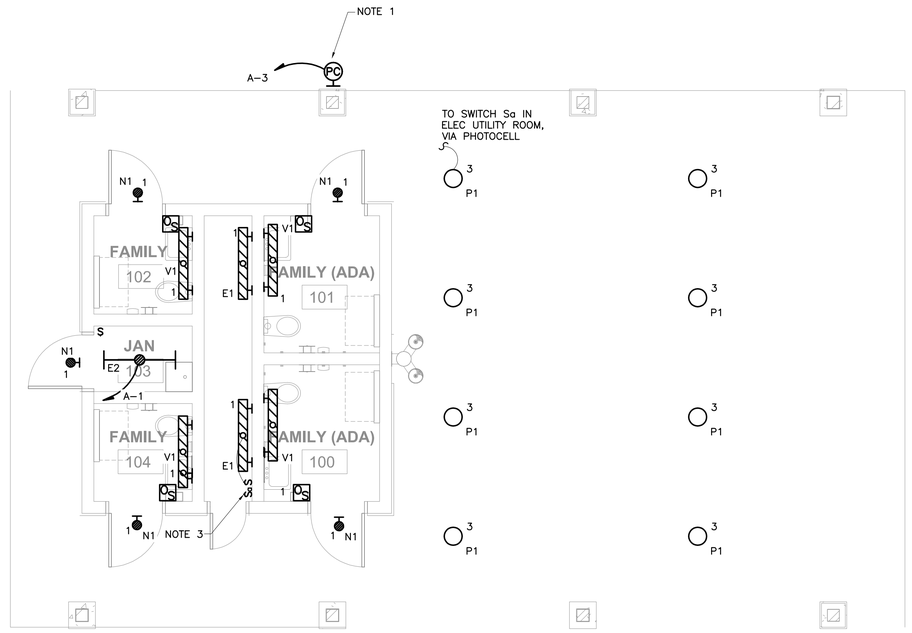
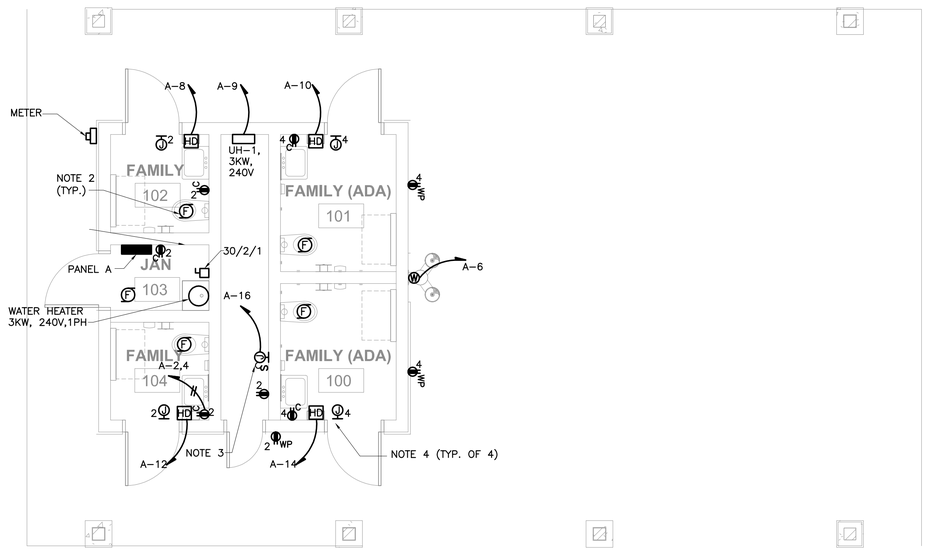


1 LIGHTING PLAN
E-100 SCALE: 1/4" = 1' - 0"



2 POWER PLAN
E-100 SCALE: 1/4" = 1' - 0"

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER/SERIES	REFLECTOR/DIFFUSER	FINISH	MOUNTING	LUMENS	NOTES
E2	4' LED STRIP	CREE C-LITE SERIES	ACRYLIC LENS	WHITE	CEILING	5000	PROVIDE INTEGRAL BATTERY
N1	LED AREA LIGHT	NLS LIGHTING TWL SERIES OR PRIOR APPROVED EQUAL	POLYCARBONATE LENS/ TYPE 4 DISTRIBUTION	DARK BRONZE	ABOVE DOOR	2500	WET LOCATION, INTEGRAL PHOTOCELL & BATTERY, NOTE 2
P1	LED PENDANT	NLS LIGHTING TCL SERIES OR PRIOR APPROVED EQUAL	POLYCARBONATE LENS	DARK BRONZE	SURFACE, SWIVEL MOUNT	4000	WET LOCATION RATED
V1	4' VANDAL RESISTANT STRIP	ADVANTAGE ENVIRONMENTAL LIGHTING LWV60 SERIES OR PRIOR APPROVED EQUAL	POLYCARBONATE LENS	WALL	SURFACE, ABOVE MIRROR	5000	INTEGRAL BATTERY

LIGHTING NOTES:

1. LOCATE PHOTOCELL ON NORTH SIDE OF BUILDING, UNDER EAVE AND AWAY FROM OTHER ARTIFICIAL SOURCES OF LIGHT. EXTEND CIRCUIT THROUGH SWITCH Sa.
2. REFER TO ARCHITECTURAL EXTERIOR ELEVATIONS FOR EXACT LOCATION OF TYPE N1.
3. PROVIDE PLASTIC ENGRAVED LABEL ON SWITCH Sa TO READ "PAVILION LIGHTS".

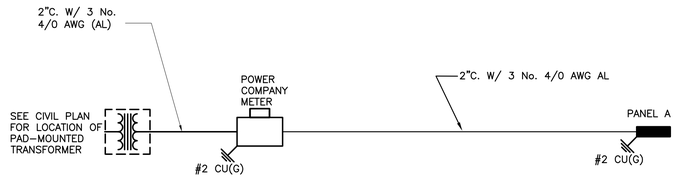
PANELBOARD SCHEDULE A

MAINS :			150A MB W/ SHUNT TRIP					MTG :	SURFACE				
VOLTAGE :			240/120	PHASE:	1	WIRE:	3	A.I.C. :	42,000				
DEVICE			BRANCH CIRCUIT	PHASE LOAD (V-A)				BRANCH CIRCUIT		DEVICE			
NO.	TRIP	POLE	DESIGNATION	V-A	PH 1		PH 2	V-A	DESIGNATION	POLE	TRIP	NO.	
1	20	1	LIGHTING	1,500	2,000			1,400	RECEPTACLES	1	20	2	
3	20	1	PAVILION LIGHTIING	1,500			3,000	1,400	RECEPTACLES	1	20	4	
5					1,000			1,500	WATER COOLER	1	20*	6	
7							2,000	2,000	HAND DRYER	1	20	8	
9	20	2	UH-1	1,500	3,500			2,000	HAND DRYER	1	20	10	
11				1,500			3,500	2,000	HAND DRYER	1	20	12	
13	20	1	WATER HEATER	1,500	3,500			2,000	HAND DRYER	1	20	14	
15				1,500			2,500	1,500	HEAT TRACE TAPE	1	20	16	
17	20	1	SPARE						SPARE	1	20	18	
19	20	1	SPARE						SPARE	1	20	20	
21	20	1	SPARE						SPARE	1	20	22	
23	20	1	SPARE						SPARE	1	20	24	
25	20	1	SPARE						SPARE	1	20	26	
27	20	1	SPARE						SPARE	1	20	28	
29	20	1	SPARE						SPARE	1	20	30	
31		1	SPACE						SPACE	1		32	
33		1	SPACE						SPACE	1		34	
35		1	SPACE						SPACE	1		36	
37		1	SPACE						SPACE	1		38	
39		1	SPACE						SPACE	1		40	
41		1	SPACE						SPACE	1		42	
CONNECTED					10,400		11,000	TTL :	21,400				
DEMAND					10,400		11,000	TTL :	21,400				

* - PROVIDE GFI TYPE BREAKER.

POWER NOTES:

1. CONNECT FAN TO LIGHTING CIRCUIT IN SAME SPACE. FAN SHALL START WHEN LIGHTS TURN ON.
2. COORDINATE SERVICE REQUIREMENTS AND CONSTRUCTION SCHEDULE WITH LOCAL POWER COMPANY REPRESENTATIVE PRIOR TO ROUGH-IN.
3. PROVIDE CONNECTION TO HEAT TRACE TAPE. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH M-SHEETS AND INSTALLER.
4. PROVIDE CONNECTION AND APPROPRIATE ROUGH-IN FOR DOOR MAGLOCK SYSTEM. COORDINATE WITH LOCK INSTALLER PRIOR TO ROUGH-IN.



3 ONE-LINE DIAGRM
E-100 SCALE: NTS

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B	DESIGN DEVELOPMENT	WRL	WFS	04/15/2024
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ELECTRICAL PLAN

Designed By:	Drawn By:	Checked By:
WRL	WLS	WRL
Issue Date: 09/30/2024	Project No: 080083	Scale: AS SHOWN

Drawing No:
E-100

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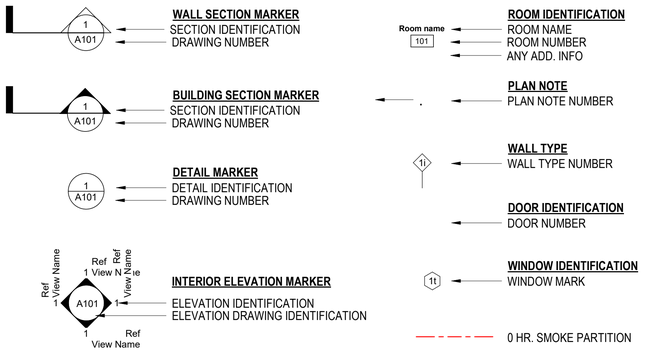
Material Symbols

- FINISHED WOOD
- ROUGH WOOD
- PLYWOOD
- RIGID INSUL.
- GLASS FIBER INSUL.
- PRECAST CONCRETE
- PVC TRIM
- EARTH
- AGGREGATE BASE
- SAND/GYPSUM BOARD
- CONCRETE
- BRICK
- CONCRETE MASONRY UNIT
- METALS

Drawing Symbols



Abbreviations

AC	AIR CONDITIONING
A.C.T.	ACOUSTICAL CEILING TILE
AFF	ABOVE FINISHED FLOOR
ALUM	ALUMINUM
APT	APARTMENT
B&B	BALLED AND BURLAP
BD	BOARD
BLDG	BUILDING
BLKG	BLOCKING
CB	CATCH BASIN
CJ	CONTROL JOINT
CL	CENTERLINE
CLR	CLEAR
CLG	CEILING
CMT	CERAMIC MOSAIC TILE
CMU	CONCRETE MASONRY UNIT
CONC	CONCRETE
CPT	CARPET
CT	CERAMIC TILE
DN	DOWN
DS	DOWN SPOUT
DWG	DRAWING
EXIST	EXISTING
ELEC	ELECTRIC
E.C.	ELECTRICAL CONTRACTOR
E.I.F.S.	EXTERIOR INSULATION FINISH SYSTEM
E.J.	EXPANSION JOINT
ELEV	ELEVATION
EQ	EQUAL
EXT	EXTERIOR
FD	FLOOR DRAIN
FIN	FINISH
FLR	FLOOR
FLUOR	FLUORESCENT
FE	FIRE EXTINGUISHER
FT	FOOT/FEET
G	GAS LINE
GAL	GALLON
GWB	GYPSUM WALL BOARD
GYP	GYPSUM
H	HEAD
H.C.	HEATING CONNECTOR
HM	HOLLOW METAL
HT	HEIGHT
HORIZ	HORIZONTAL
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
INSUL	INSULATION
J	JAMB
L.P.	LAMINATED PLASTIC
LAM	LAMINATE
MAS	MASONRY
MECH	MECHANICAL
MAX	MAXIMUM
MIN	MINIMUM
M.H.	MAN HOLE
MTL	METAL
MK	MARK
MRGWB	MOISTURE RESISTANT GYPSUM WALL BOARD
N	NORTH
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
O.C.	ON CENTER
P.C.	PLUMBING CONTRACTOR
PLAS	PLASTIC
PL/PLAM	PLASTIC LAMINATE
PLUMB	PLUMBING
PP	PEAT POT
PT	PRESSURE TREATED
PTD	PAINTED
P.V.C.	POLYVINYL CHLORIDE
QT	QUARRY TILE
QUA	QUANTITY
RC	ROOT CUTTING
RD	ROOF DRAIN
REQ'D	REQUIRED
SIM	SIMILAR
STL	STEEL
TB	TOWEL BAR
TTD	TOILET TISSUE DISPENSER
TYP	TYPICAL
V	VINYL
VCT	VINYL COMPOSITION TYLE
VERT	VERTICAL
VWC	VINYL WALL COVERING
w/	WITH
WD	WOOD
WWF	WELDED WIRE FABRIC

Project Data

BUILDING CODE DATA

1. **PROJECT:** Big Oak Park Improvements

   LOCATION: 2803 Boy Scout Rd, Augusta, GA 30909

2. **APPLICABLE CODES:** https://www.augustaga.gov/1167/Construction-Repairs-Renovations-Codes

   A. Building Code: 2018 International Building Code w/ 2020 GA Amendments
   B. Fire: 2018 International Fire Code w/ 2020 GA Amendments
   C. Life Safety Code: 2018 NFPA 101 w/ 2020 GA Amendments
   D. Mechanical: 2018 International Mechanical Code w/ 2020 GA Amendments
   E. Plumbing: 2018 International Plumbing Code w/ 2020 GA Amendments
   F. Electrical: 2017 National Electric Code (No GA Amendments)
   G. Gas: 2018 Fuel Gas Code Code w/ 2020 GA Amendments
   H. Energy: 2015 International Energy Conservation Code w/ 2020 GA Supplements & Amendments
   I) Accessibility: 2010 ADA / ICC/ANCI A117.1

3. **BUILDING USE, CONSTRUCTION CLASSIFICATIONS AND HEIGHT:**

   Occupancy Classification and Use: IBC (Sect. 302)

   Primary Occupancies:
   - Assembly A-3

   Accessory Occupancies:
   - Storage (Moderate-hazard) S-1

   Building Data:

	Pavilion	Airnasium
Type of Construction	**IIB**	**IIB**
Sprinklered	**No**	**No**
Allowable Building Height (Table 504.3)	**55 FT**	**55 FT**
Allowable Number of Stories Above Grade (Table 504.4)	**2**	**2**
Maximum Allowable Area (Table 506.2)	**9,500 SF**	**23,750 SF**
Actual Area	**1,800 SF (Canopy)**	**11,812 SF (Canopy)**

506.2 Allowable Area Determination (506.2.1Single-occupancy, one-story buildings)

W=(L1 X W1)/F
W=(450 X 60)/450
W=60

LF = [F/P – 0.25]W/30
LF = [450/450 – 0.25] 60/30
LF = [1 – 0.25] 2
LF = .75 X 2
LF = 1.5

Aa=[At + (NS X Lf)]
Aa=9,500 + (9,500 X 1.5)
Aa=9,500 + (14,250)
Aa=23,750 SF Allowable Area

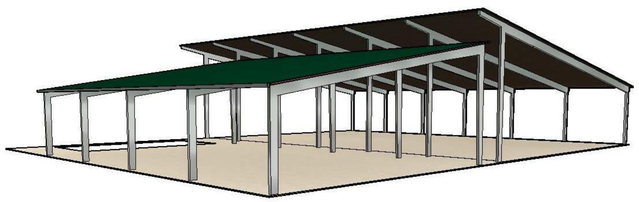
4. **OCCUPANCY LOADS:**

Use	IBC (Table - 1004.5)
Pavilion:	
Assembly (Fixed Seats):	6 Tables at 8 occupants per table = 48
Storage (300 Gross):	19 SF / 300 = 1 Total: 49 Occupants
Airnasium:	
Exercise (50 Gross):	Basketball Court: 4,000 SF / 50 = 80 Pickleball Courts: 6,740 SF / 50 = 135 Total: 215 Occupants

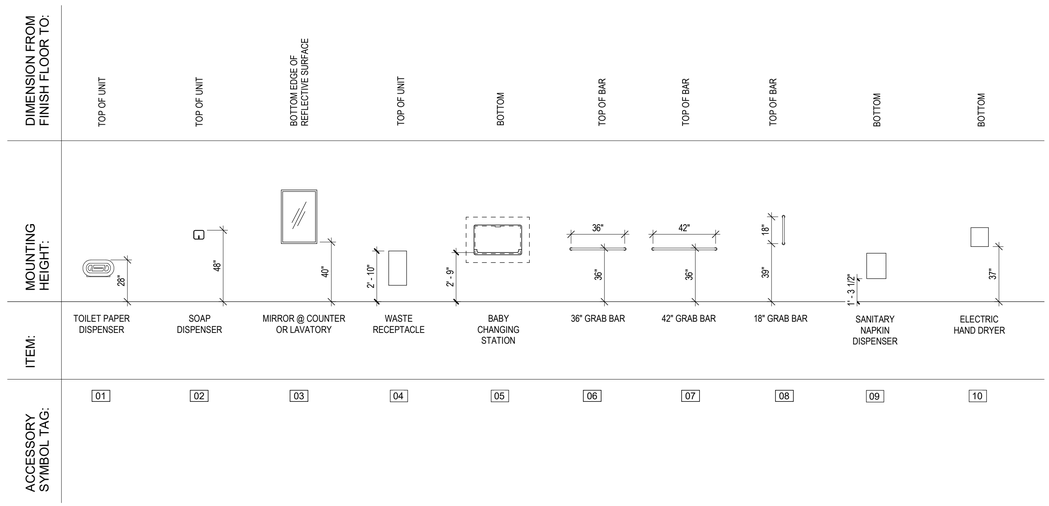
5. **BUILDING FIRE RATINGS:** **IBC (601, 602)**

	TYPE IIB
	Sprinklered
STRUCTURAL FRAME (Table 601) Including Columns, Girders, Trusses	0
EXTERIOR BEARING WALL (Table 601)	0
INTERIOR BEARING WALL (Table 601)	0
EXTERIOR NON-BEARING WALL (Table 602)	0 (X>30) 1 (10<X<30)
INTERIOR NON-BEARING WALL (Table 601)	0
FLOOR CONSTRUCTION (Table 601) Including Supporting Beams & Joists	0
ROOF CONSTRUCTION (Table 601) Including Supporting Beams & Joists	0

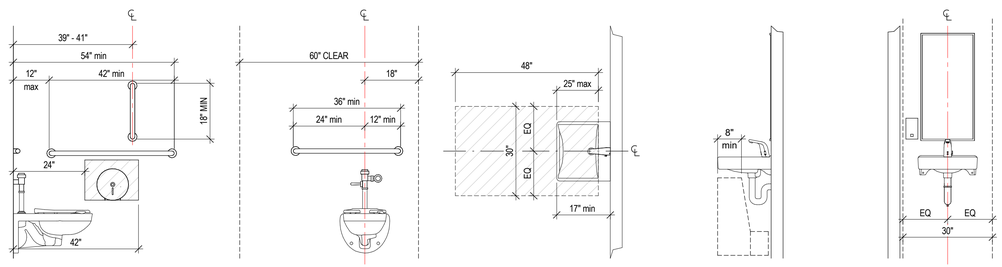
3D Perspectives



Typical Mounting Heights



TOILET ACCESSORY MOUNTING HEIGHTS
1/4" = 1'-0"



(A) ACCESSIBLE TOILET SIDE ELEVATION
(A) ACCESSIBLE TOILET FRONT ELEVATION
(A) ACCESSIBLE LAVATORY CLEAR FLOOR SPACE
(A) ACCESSIBLE LAVATORY SIDE ELEVATION
(A) ACCESSIBLE LAVATORY FRONT ELEVATION

ADA ICC A117.1 - 09 STANDARD MOUNTING DIMENSIONS
1/2" = 1'-0"

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Augusta GEORGIA RECREATION & PARKS
DELTA ENGINEERING
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SDC Sustainable Design Consultants, LLC

STATE OF GEORGIA
COREY A. MILLER
CERTIFICATE NO. RA013344
REGISTERED ARCHITECT

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PROJECT DATA, SYMBOLS, & ABBREVIATIONS

Designed By:	Drawn By:	Checked By:
KDL	VDR	CM
Issue Date: 09/30/2024	Project No: 080083	Scale: AS SHOWN

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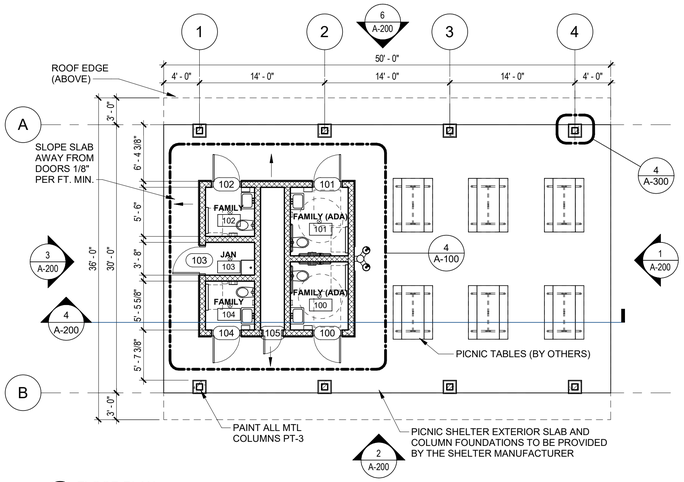
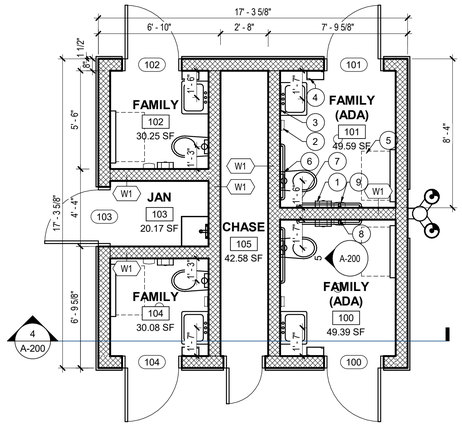
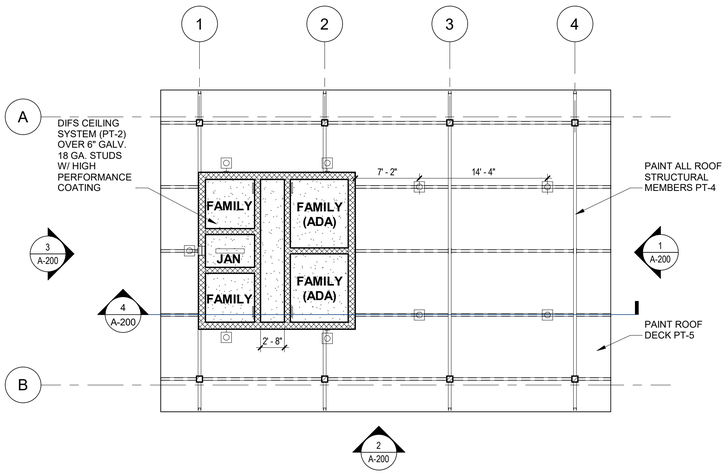


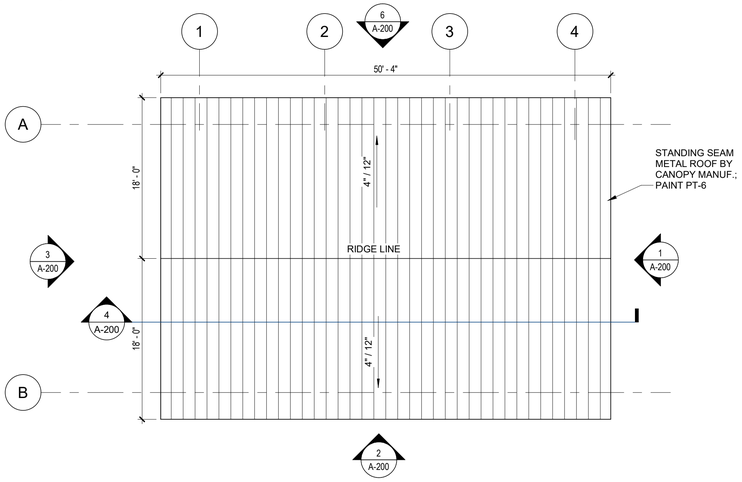
1 FLOOR PLAN
1/8" = 1'-0"



4 FLOOR PLAN - ENLARGED
1/4" = 1'-0"



2 REFLECTED CEILING PLAN
1/8" = 1'-0"



3 ROOF PLAN
1/8" = 1'-0"

RCP LEGEND

NOTES:

1 MECHANICAL AND ELECTRICAL ITEMS SHOWN FOR COORDINATION PURPOSES ONLY.

2 REFER TO MEP PLANS FOR CEILING EQUIPMENT LOCATIONS & SIZES.

3. ACCESS PANELS TO BE INSTALLED IN ALL HARD CEILINGS ADJACENT TO ALL CEILING MOUNTED VALVES & HVAC EQUIPMENT REQUIRING MAINTENANCE. LOCATIONS SHALL BE COORDINATED AS PART OF COORDINATED DRAWING PROCESS.

	DIRECT APPLIED FINISH SYSTEM (DIFS)
	4' VANDAL RESISTANT LIGHT
	LINEAR LED
	PENDANT LIGHT FIXTURE
	WALL MOUNT LIGHT FIXTURE

CEILING NOTES

1. CEILING PLANS DO NOT SHOW EVERY FIXTURE OR COMPONENT. REFER TO ELECTRICAL, PLUMBING, MECHANICAL AND STRUCTURAL DRAWINGS FOR EXTENT OF ALL CEILING PENETRATIONS AND INSTALLATIONS AND COORDINATE PRIOR TO INSTALLATION.

PLAN GENERAL NOTES

1. WORK FROM GIVEN DIMENSIONS. IN GENERAL, LARGE-SCALE DETAILS TAKE PRECEDENCE OVER SMALLER SCALE PLANS, ELEVATIONS AND BUILDING SECTIONS. NOTIFY THE ARCHITECT OF ANY DIMENSIONAL DISCREPANCIES PRIOR TO COMMENCING THE WORK, AND DO NOT BEGIN WORK UNTIL SUCH DISCREPANCIES ARE RESOLVED BY THE ARCHITECT.

2. DO NOT SCALE THE DRAWINGS.

3. DIMENSIONS INDICATED AS "CLEAR" SHALL BE MAINTAINED IN CASES OF DISCREPANCY.

4. UNLESS NOTED OTHERWISE, THE LOCATION OF DOOR FRAMES SHALL BE:
- CMU PARTITIONS: 4" FROM THE ADJACENT WALL TO THE HINGE SIDE OF THE ROUGH OPENING.

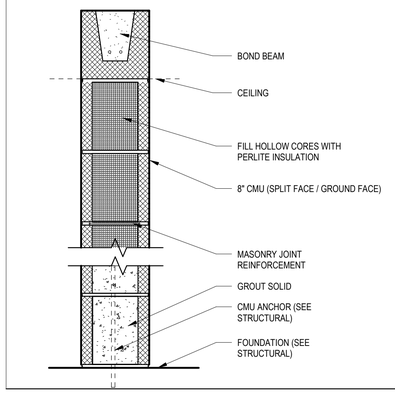
5. MASONRY OPENING OR ROUGH OPENING DIMENSIONS INDICATED ARE NOMINAL DIMENSIONS AND MAY NOT MATCH THE ACTUAL DIMENSIONS OF THE PRODUCT. COORDINATE ALL MASONRY OPENINGS AND ROUGH OPENINGS WITH THE ACTUAL WINDOW UNIT, DOORFRAME, CURTAIN WALL/STOREFRONT, OR LOUVER SIZES AND REQUIREMENTS.

6. DIMENSIONAL CONTROL:

EXTERIOR DIMENSIONS ARE TO:
- CENTERLINE OF COLUMN
- FACE OF MASONRY
- FACE OF STUD
- FACE OF CONCRETE
- CENTERLINE OF WINDOW OPENING
- ROUGH OPENING
- MASONRY OPENING

INTERIOR DIMENSIONS ARE TO:
- CENTERLINE OF COLUMN
- FACE OF MASONRY
- FACE OF STUD
- FACE OF EXISTING FINISH MATERIAL

CMU PARTITION



7 PARTITION TYPE - W1
1 1/2" = 1'-0"

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DELTA ENGINEERING
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STATE OF GEORGIA
COREY A. MILLER
CERTIFICATE NO. RA 027344
REGISTERED ARCHITECT

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BIG OAK PARK IMPROVEMENTS
2803 BOY SCOUT ROAD
AUGUSTA, GA 30909

No.	Submittal / Revision	App'd	By	Date
D	BID SET	CM	BEB	05/19/2025
C	PERMIT SET	CM	VD	06/17/2024
B	DESIGN DEVELOPMENT	CM	VD	04/15/2024
A	SCHEMATIC DESIGN	CM	VD	02/23/2024

FLOOR PLANS, CEILING PLANS & ROOF PLANS

Designed By:	Drawn By:	Checked By:
KDL	VDR	CM
Issue Date:	Project No:	Scale:
09/30/2024	080083	AS SHOWN

Drawing No:
A-100

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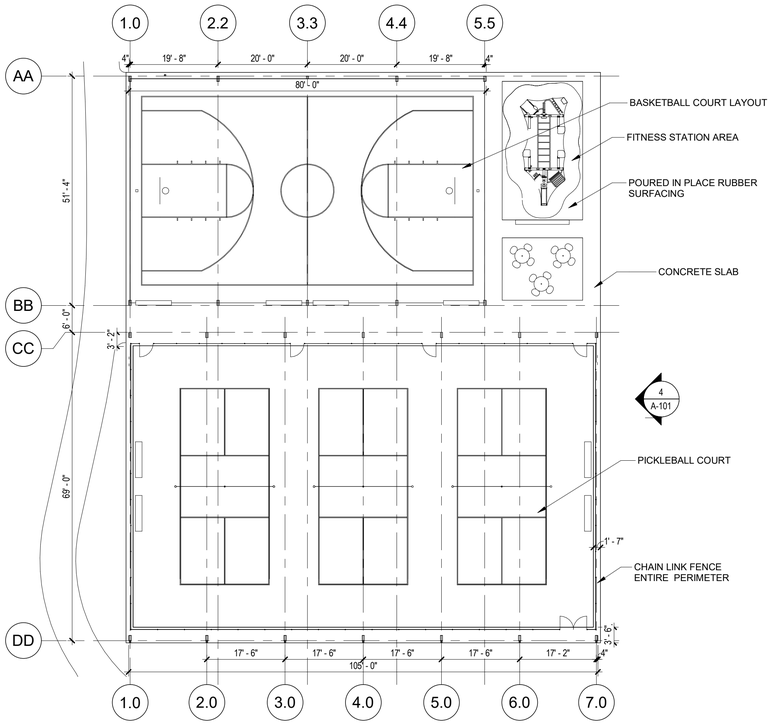
AIRNASIUM GENERAL NOTES

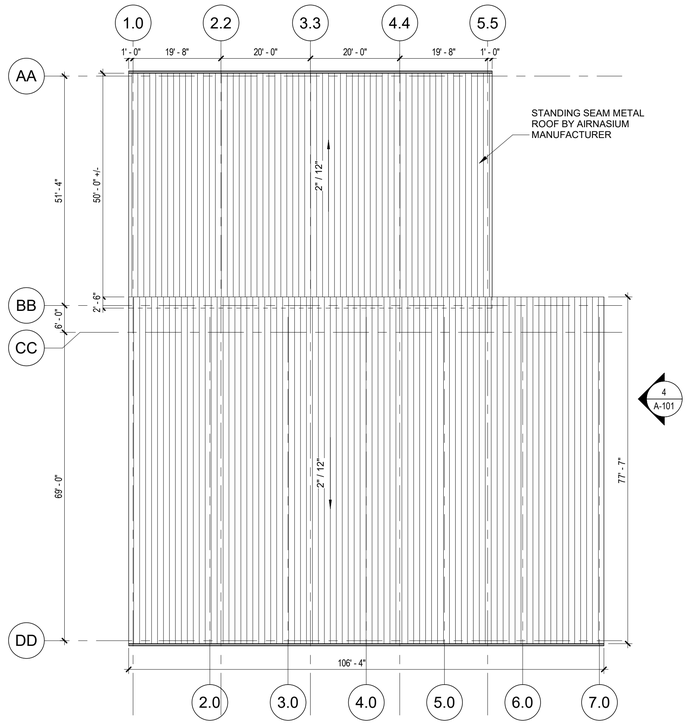
NOTES:

1 SEE STRUCTURAL FOR FOUNDATIONS

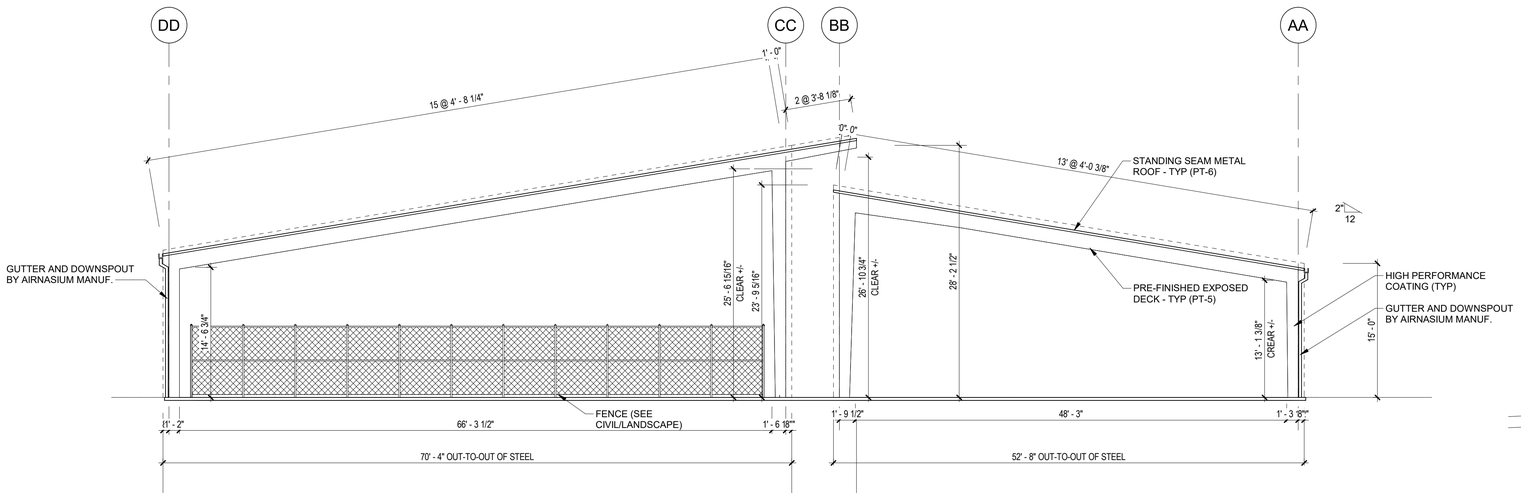
2 SEE LANDSCAPE FOR COURT DESIGN AND FITNESS STATION



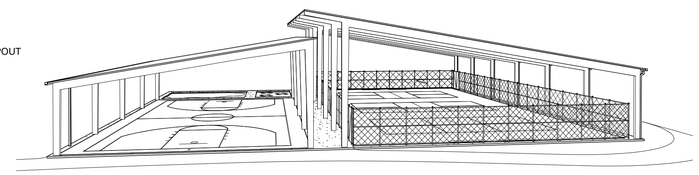
1 AIRNASIUM FLOOR PLAN
1/16" = 1'-0"



2 AIRNASIUM ROOF PLAN
1/16" = 1'-0"



4 AIRNASIUM ELEVATION (BASIS-OF-DESIGN LAYOUT)
1/8" = 1'-0"



3 AIRNASIUM 3D VIEW

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A	SCHEMATIC DESIGN	CM	VD	02/23/2024

AIRNASIUMS FLOOR PLANS & ELEVATION

Designed By:	Drawn By:	Checked By:
KDL	VDR	CM
Issue Date:	Project No:	Scale:
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Drawing No:

A-101

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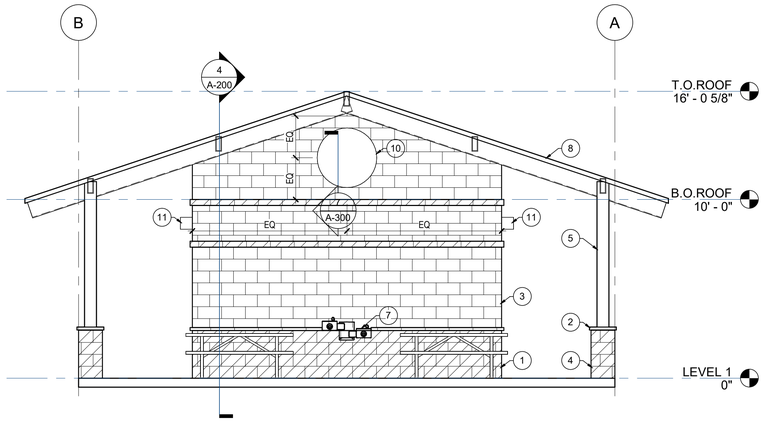
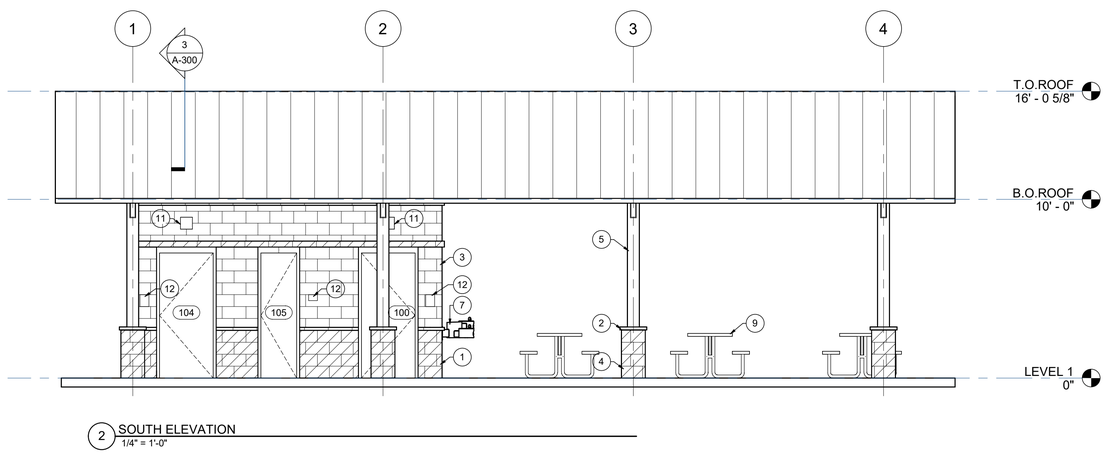
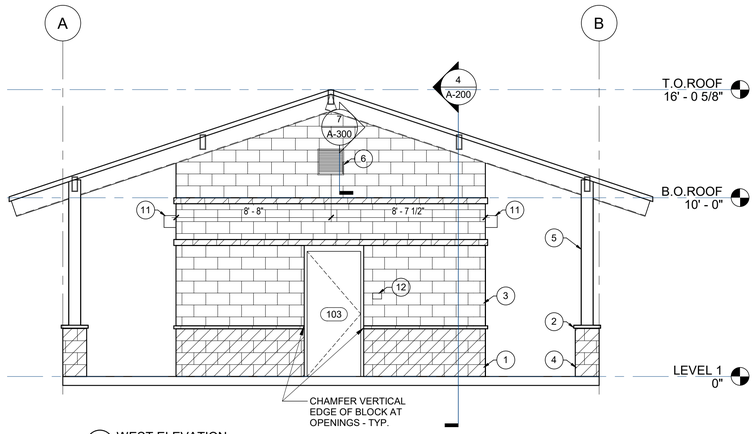


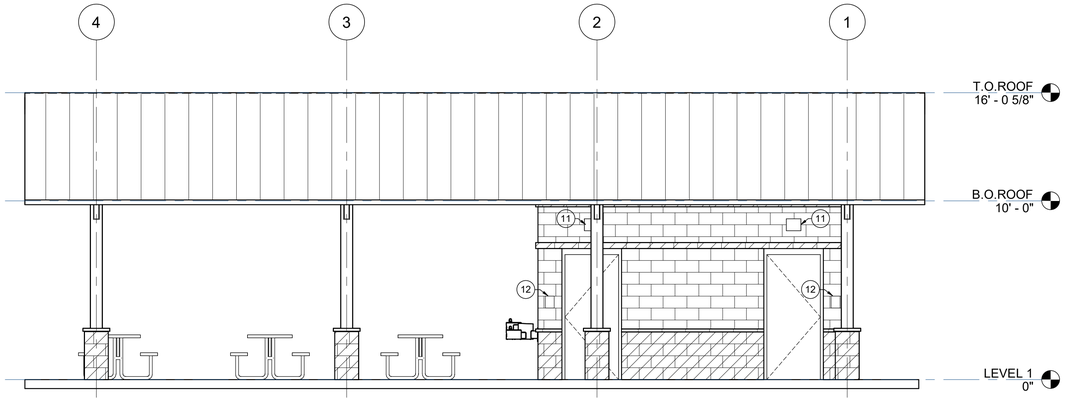
1 EAST ELEVATION
1/4" = 1'-0"



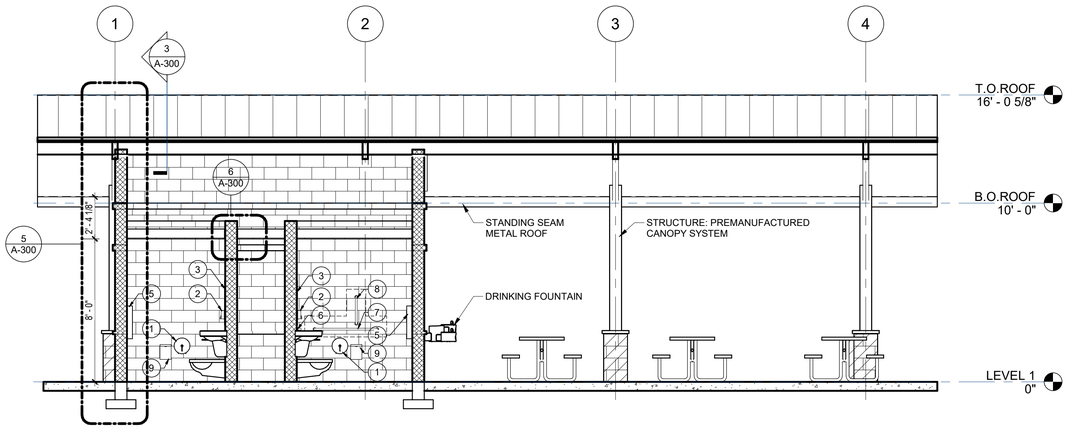
2 SOUTH ELEVATION
1/4" = 1'-0"



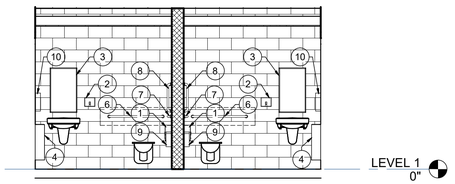
3 WEST ELEVATION
1/4" = 1'-0"



6 NORTH ELEVATION
1/4" = 1'-0"



4 PAVILION SECTION
1/4" = 1'-0"



5 INTERIOR ELEVATION A - FAMILY (ADA)
1/4" = 1'-0"

EXTERIOR ELEVATION SCHEDULE	
Number	Description
1	SPLIT FACE CMU
2	PRECAST
3	GROUND FACE CMU
4	SPLIT FACE CMU PILASTER
5	STRUCTURE: PREMANUFACTURED CANOPY SYSTEM
6	LOUVER
7	DRINKING FOUNTAIN
8	STANDING SEAM METAL ROOF
9	PICNIC TABLES (NIC)
10	3'-4" DIA. CIRCULAR BRONZE PLAQUE SIGNAGE W/AUGUSTA, GA PARKS & RECREATION LOGO
11	EXTERIOR LIGHT FIXTURE
12	ROOM SIGNAGE

TOILET ACCESORY SCHEDULE	
Number	Description
1	TOILET PAPER DISPENSERS: OWNER SUPPLIED CONTRACTOR INSTALLED (OSCI)
2	SOAP DISPENSERS: OSCI
3	VANDAL-RESISTANT STAINLESS STEEL FRAMELESS MIRROR
4	SURFACE-MOUNTED WASTE RECEPTACLE
5	BABY CHANGING STATION
6	GRAB BAR/TOILET BACK: 36"
7	GRAB BAR/TOILET SIDE: 42"
8	GRAB BAR/VERTICAL:18"
9	SURFACE MOUNTED SANITARY NAPKIN DISPOSAL UNIT
10	WALL MOUNTED HAND DRYER

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EXTERIOR ELEVATIONS, BUILDING SECTION & INTERIOR ELEVATION

Designed By:	Drawn By:	Checked By:
KDL	VDR	CM
Issue Date:	Project No:	Scale:
09/30/2024	080083	AS SHOWN

Drawing No:
A-200

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DOOR & FRAME SCHEDULE

LOCATION		DOOR				DOOR		DOOR		FRAME							
		OPENING		PANEL		PANEL		PANEL									
MARK	ROOM NAME	WIDTH	HEIGHT	THICK	TYPE	MATL	FINISH	CONFIG	PANEL WIDTH	TYPE	MATL	FINISH	HEAD	JAMB	SILL	HARDWARE SET	COMMENTS
100	FAMILY (ADA)	3' - 0"	7' - 0"	1 3/4"	1	HM	PT	SINGLE	3' - 0"	A	HM	PT	9/A-300	9/A-300(SIM)	8/A-300	1	
101	FAMILY (ADA)	3' - 0"	7' - 0"	1 3/4"	1	HM	PT	SINGLE	3' - 0"	A	HM	PT	9/A-300	9/A-300(SIM)	8/A-300	1	
102	FAMILY	3' - 0"	7' - 0"	1 3/4"	1	HM	PT	SINGLE	3' - 0"	A	HM	PT	9/A-300	9/A-300(SIM)	8/A-300	1	
103	JAN	3' - 0"	7' - 0"	1 3/4"	1	HM	PT	SINGLE	3' - 0"	A	HM	PT	9/A-300	9/A-300(SIM)	8/A-300	2	
104	FAMILY	3' - 0"	7' - 0"	1 3/4"	1	HM	PT	SINGLE	3' - 0"	A	HM	PT	9/A-300	9/A-300(SIM)	8/A-300	1	
105	CHASE	2' - 0"	7' - 0"	1 3/4"	1	HM	PT	SINGLE	2' - 0"	A	HM	PT	9/A-300	9/A-300(SIM)	8/A-300	3	

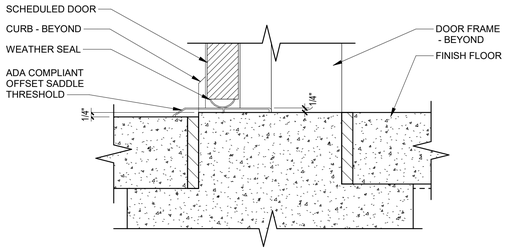
MATERIAL & COLOR LEGEND

TYPE	DESCRIPTION	BASIS-OF DESIGN	COLOR	FINISH	NOTES
FLOORING					
SC	SEALED CONCRETE	ASHFORD FORMULA	N/A		
WALL MATERIAL					
CMU-1	SPLIT FACE CMU	JOHNSON CONCRETE PRODUCTS	JCL-3553 SILVER SPUN		PRESTIGE MASONRY ARCHITECTURAL BLOCK SERIES
CMU-2	GROUND FACE CMU	JOHNSON CONCRETE PRODUCTS	JCL-3562 OYSTER BAY		PRESTIGE MASONRY ARCHITECTURAL BLOCK SERIES
WALL FINISHES					
PT	TYPICAL WALL PAINT	SHERWIN WILLIAMS	SW 70008 ALABASTER	PT-1	EPOXY PAINT
CEILINGS					
DIRECT APPLIED FINISH SYSTEM	TYPICAL INTERIOR CEILING	STO - STOLIT 1.0 + FREEFORM LIMESTONE FINISH	TBD	PT-2	
EXTERIOR COLUMNS					
METAL	CANOPY COLUMNS	COVERWORX STEELWORX	TUDOR BROWN	PT-3	
EXTERIOR ROOF BEAMS					
METAL	CANOPY BEAMS	COVERWORX STEELWORX	TUDOR BROWN	PT-4	B-O-D MANUF.: COVERWORX
ROOF (UNDERSIDE)					
METAL	CANOPY DECKING	COVERWORX STEELWORX	ASH GRAY	PT-5	B-O-D MANUF.: COVERWORX
ROOF (TOPSIDE)					
METAL	STANDING SEAM ROOF	COVERWORX STEELWORX	EVERGREEN	PT-6	B-O-D MANUF.: COVERWORX
SEALER/GRAFFITI CONTROL					
G-1	SEALER AT EXT. BLOCK	PROSOCO "BLOCKGUARD & GRAFFITI CONTROL"			PROVIDE AN EXTERIOR CMU
DOORS & FRAMES					
HM	HOLLOW METAL	SHERWIN WILLIAMS	TBD	PT-7	MATCH STANDING SEAM COLOR

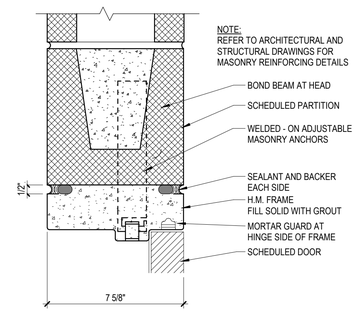
Note:
1. Airnasium high performance coating for roof and structure colors to match the pre-manufactured pavilion.

ROOM FINISH SCHEDULE

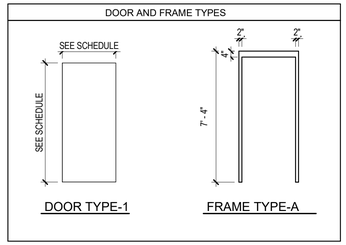
Room Number	Room Name	Floor	Base	Walls		Ceiling		Notes
				Material	Finish	Material	Finish	
101	FAMILY (ADA)	SC		CMU	PT	GWB	PT	
102	FAMILY	SC		CMU	PT	GWB	PT	
103	JAN	SC		CMU	PT	GWB	PT	
104	FAMILY	SC		CMU	PT	GWB	PT	
105	CHASE	-		CMU	-	GWB	-	

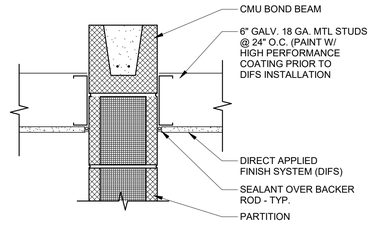


8 DETAIL - SILL AT EXTERIOR DOOR
3" = 1'-0"

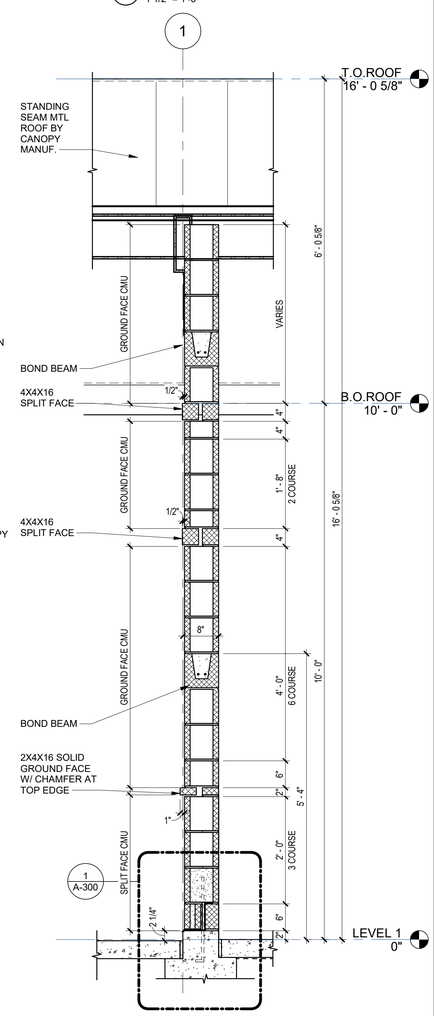


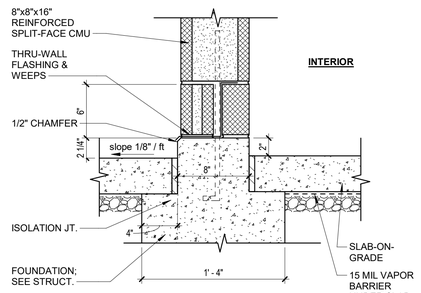
9 DETAIL - HEAD @ FLUSH HM FRAME - CMU (JAMB SIM.)
3" = 1'-0"



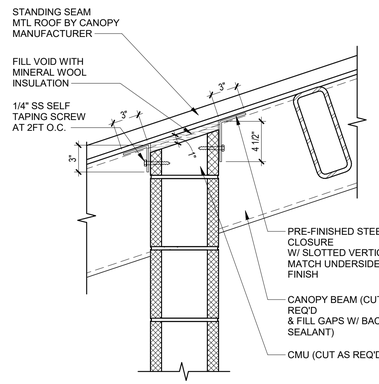


6 SECTION DETAIL AT CEILING
1 1/2" = 1'-0"

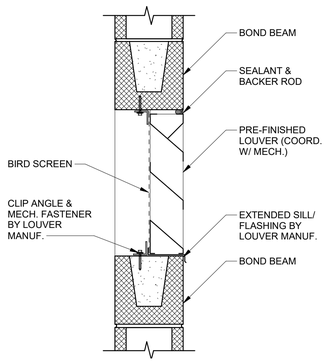




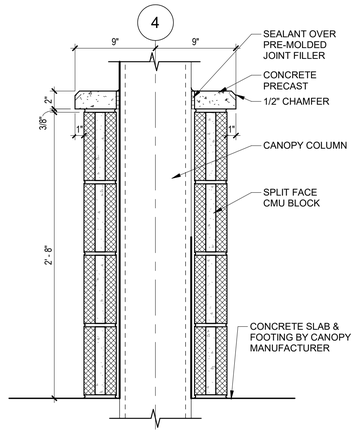
1 DETAIL AT FOUNDATION
1 1/2" = 1'-0"



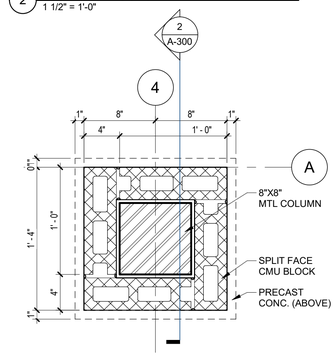
3 SECTION DETAIL - CMU AT CANOPY ROOF
1 1/2" = 1'-0"



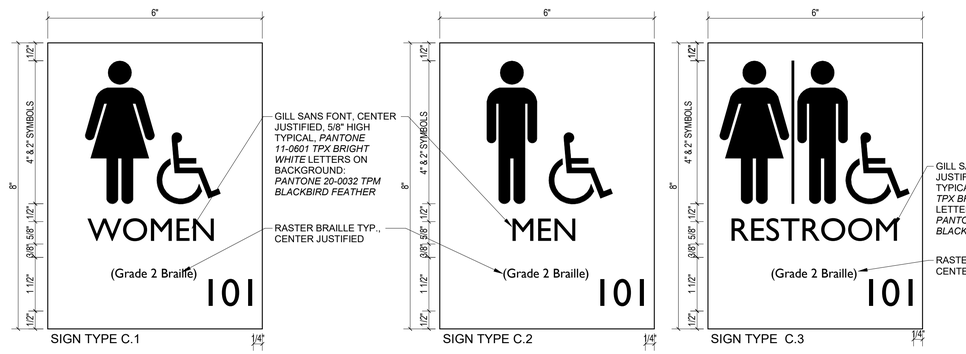
7 SECTION DETAIL AT LOUVER
1 1/2" = 1'-0"



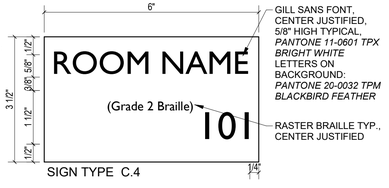
2 SECTION AT COLUMN WRAP
1 1/2" = 1'-0"



4 PLAN DETAIL AT COLUMN WRAP
1 1/2" = 1'-0"



10 SIGNAGE - RESTROOMS1
6" = 1'-0"



11 SIGNAGE - ROOM ID
6" = 1'-0"

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BUILDING DETAILS, DOOR & FINISH SCHEDULE

Designed By:	Drawn By:	Checked By:
KDL	VD	CM
Issue Date:	Project No:	Scale:
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Drawing No:
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GENERAL STRUCTURAL NOTES:

GENERAL:

1. THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE ARCHITECTURAL, CIVIL, MECHANICAL, AND ELECTRICAL DRAWINGS, AND THE SPECIFICATIONS. THE CONTRACTOR SHALL VERIFY THE REQUIREMENTS OF OTHER DISCIPLINES AS TO SLEEVES, CHASES, HANGERS, INSERTS, ANCHORS, HOLES, PENETRATIONS, AND OTHER ADDITIONAL ITEMS TO BE PLACED OR SET IN THE STRUCTURAL WORK.

2. WHERE SECTION IS SHOWN AND DETAILED, OTHER SECTIONS OF SIMILAR CONDITION SHALL BE DETAILED THE SAME OR OPPOSITE HAND, WHETHER SPECIFICALLY NOTED OR NOT.

3. ENGINEER'S APPROVAL MUST BE SECURED FOR ALL SUBSTITUTIONS. SUCH APPROVAL MAY ALSO BE WITHHELD AT THE SOLE DISCRETION OF THE ENGINEER OF RECORD.

4. THE STRUCTURES HAVE BEEN DESIGNED IN ACCORDANCE WITH THE PROVISIONS OF THE INTERNATIONAL (STANDARD) BUILDING CODE, 2021 EDITION (IBC 2021) WITH 2023 GEORGIA STATE AMENDMENTS.

5. THE CONTRACTOR SHALL PROVIDE TEMPORARY SHORING AND BRACING REQUIRED TO ERECT AND HOLD THE STRUCTURE IN PROPER ALIGNMENT UNTIL PERMANENT SUPPORTS AND LATERAL BRACING ARE IN PLACE.

6. DESIGN LOADS USED IN THE DESIGN OF THE STRUCTURAL SYSTEMS IN THIS PROJECT ARE AS FOLLOWS:

a. DEAD LOAD:

ROOF	2 psf

b. LIVE LOAD:

ROOF	20 psf
COLLATERAL	2 psf
GRADE SLAB	100 psf

c. ROOF SNOW LOAD:

GROUND SNOW LOAD	5 psf

d. WIND DESIGN CRITERIA:

RISK CATEGORY	II
EXPOSURE CATEGORY	C
BASIC WIND SPEED	113 mph
INTERNAL PRESSURE	OPEN STRUCTURE

e. SEISMIC DESIGN CRITERIA (USING IBC 2021):

SPECTRAL RESPONSE ACCELERATION:					
S_S(SHORT PERIOD (0.2 SECOND))	=	0.264 g	S_{DS}	=	0.280 g
S_1(LONG PERIOD (1.0 SECOND))	=	0.096 g	S_{D1}	=	0.154 g
SITE CLASSIFICATION	=	CLASS D			
SEISMIC DESIGN CATEGORY		C			
RISK CATEGORY		II			
STEEL SYSTEM NOT SPECIFICALLY DESIGNED FOR SEISMIC RESISTANCE:					
I	=	1.0			
R	=	3.0			
C_d	=	3.0			
ANALYSIS PROCEDURE	=	EQUIVALENT LATERAL FORCE			

7. ALL VERTICAL ELEVATIONS ARE BASED ON THE FINISHED FLOOR ELEVATION = 0'-0".

FOUNDATION:

1. FOUNDATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE RECOMMENDATIONS PROVIDED IN THE REPORT OF GEOTECHNICAL EXPLORATION SUBMITTED BY CSRA TESTING AND ENGINEERING CO., INC, DATED NOVEMBER 20, 2023.

2. IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHINICAL REPORT, THE FOUNDATIONS FOR THE PEMB STRUCTURES HAVE BEEN DESIGNED AS SHALLOW SPREAD FOOTINGS WITH A MAXIMUM ALLOWABLE SOIL BEARING PRESSURE OF 1500 psf.

3. IN PREPARATION OF CONSTRUCTION OF THE FOUNDATIONS AND GRADE SLABS, ALL TOPSOIL, VEGETATION AND SURFACE SOILS SHALL BE REMOVED FROM THE CONSTRUCTION SITE. AFTER REMOVAL OF THE TOPSOIL, THE UPPER 1 FOOT OF SOIL SHALL BE UNDERCUT AND THE NEWLY EXPOSED SURFACE SHALL BE COMPACTED TO 100% STANDARD PROTOR MAXIMUM DRY DENSITY. THE UNDERCUT SOILS CAN BE REPLACED AND RECOMPACTED.

4. AFTER UNDERCUTTING AND DENSIFICATION, AND PRIOR TO EXCAVATION OF FOUNDATIONS OR PLACEMENT OF STRUCTURAL FILLS, THE SURFACE SHALL BE PROOFROLLED TO ENSURE STABLE CONDITIONS. AFTER EXCAVATION OF FOUNDATIONS, THE FOOTING SUBGRADE SHALL BE COMPACTED USING A JUMP JACK PRIOR TO CONCRETE PLACEMENT.

5. ALL PROOFROLLING OPERATIONS SHALL BE OBSERVED AND DOCUMENTED THE CONSTRUCTION TESTING AGENCY. IF UNSUITABLE CONDITIONS ARE ENCOUNTERED AT THE SUBGRADE LEVEL, RECOMMENDATIONS FOR DEALING WITH THE CONDITIONS SHOULD BE PROVIDED TO THE OWNER'S REPRESENTATIVE BY THE GEOTECHNICAL ENGINNER. ANY EXCESSIVELY WET SOILS ENCOUNTERED SHOULD BE ALLOWED TO DRY AND STABILIZE OR TO BE EXCAVATED AND REPLACED WITH PROPERLY COMPACTED FILL.

CAST-IN-PLACE CONCRETE:

1. CAST-IN-PLACE CONCRETE FOR THIS PROJECT SHALL COMPLY WITH THE AMERICAN CONCRETE INSTITUTE (ACI) "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE AND COMMENTARY" ACI 318-19 AND ACI 318R-19.

2. CONCRETE SHALL HAVE THE FOLLOWING PROPERTIES:

WEIGHT	STRENGTH @ 28 DAYS	AIR CONTENT	MAX. W/C RATIO
145 pcf	4000 psi	0%	N/A

3. AN INTENTIONALLY ROUGHENED SURFACE MAY BE USED INSTEAD OF A CONTINUOUS SHEAR KEY AT ALL HORIZONTAL CONSTRUCTION JOINTS.

4. ALL EXPOSED CONCRETE EDGES SHALL HAVE 3/4" CHAMFER, WHETHER SPECIFICALLY NOTED OR NOT.

5. ALL ANCHOR RODS SHALL BE HOT DIPPED GALVANIZED.

6. CONCRETE FORM WORK SHALL COMPLY WITH ACI 347, LATEST EDITION. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF ALL FORMWORK.

7. DURING AND IMMEDIATELY AFTER PLACING, CONCRETE SHALL BE THOROUGHLY COMPACTED BY SPADING OR MECHANICAL VIBRATING TO PROVIDE DENSE CONCRETE FREE OF HONEY COMBING.

8. DIRECTLY AFTER FORMS HAVE BEEN REMOVED, ALL EXPOSED TIE WIRES AND STAPLED ENDS SHALL BE REMOVED FROM CONCRETE SURFACES TO BE EXPOSED. CUT TIES FLUSH WITH FINISHED SURFACES FOR ALL OTHER CONCRETE. RUB SMOOTH OR CUT OFF FINS AND ROUGH PLACES. REMOVE ALL LOOSE CONCRETE AND OTHER IRREGULARITIES. PATCH AND FILL VOIDS WITH BONDING AGENT AS REQUIRED.

CONCRETE REINFORCEMENT:

1. REINFORCING STEEL SHALL CONFORM TO ASTM A615 SUPPLEMENT SI, GRADE 60, OF DOMESTIC MANUFACTURER.

2. WELDED WIRE REINFORCEMENT SHALL CONFORM TO ASTM A185. WELDED WIRE REINFORCEMENT SHALL BE SUPPLIED IN FLAT SHEETS ONLY. LAP 9" MINIMUM.

3. REINFORCEMENT SHALL BE FABRICATED TO SHAPES AND DIMENSIONS SHOWN AND SHALL CONFORM TO THE REQUIREMENTS OF CRSI AND ACI 318. REINFORCEMENT SHALL BE COLD BENT UNLESS OTHERWISE AUTHORIZED. BENDING MAY BE ACCOMPLISHED IN THE FIELD OR AT THE MILL. BARS SHALL NOT BE BENT AFTER EMBEDDED IN CONCRETE.

4. REINFORCEMENT SHALL BE FREE FROM LOOSE RUST AND SCALE, DIRT, OIL, OR OTHER DELETERIOUS COATING THAT COULD REDUCE BOND WITH THE CONCRETE.

5. NO SPLICES OF REINFORCEMENT SHALL BE PERMITTED EXCEPT AS DETAILED OR AUTHORIZED. MAKE BARS CONTINUOUS AROUND CORNERS WITH CORNER BARS. WHERE PERMITTED, SPLICES MADE BY CONTACT LAPS SHALL BE CLASS "B" TENSION LAPS.

6. TENSION AND COMPRESSION REINFORCEMENT SPLICES IN CONCRETE SHALL BE MADE AS FOLLOWS:
   - #4 BARS - 32"
   - #5 BARS - 41"
   - #6 BARS - 49"
   - #7 BARS - 71"

7. WHERE HOOKS ARE SHOWN, PROVIDE STANDARD 90° HOOKS IN ACCORDANCE WITH CRSI AND ACI 318, UNLESS NOTED OTHERWISE.

8. WHERE REQUIRED, PROVIDE DOWELS TO MATCH SIZE AND SPACING OF VERTICAL REINFORCING FROM FOUNDATION. DOWELS SHALL HAVE STANDARD 90° HOOKS.

9. MINIMUM CONCRETE REINFORCING COVER REQUIREMENTS:	CAST-IN-PLACE CONCRETE COVER
a. CONCRETE CAST AGAINST EARTH:	3"
b. FORMED CONCRETE EXPOSED TO EARTH OR WEATHER:	
WALLS, SLABS:	
#6 BAR AND LARGER	2"
#5 BAR AND SMALLER	1 1/2"
c. FORMED CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:	
WALLS, SLABS:	
#11 BAR AND SMALLER	3/4"

10. ALL REINFORCING STEEL AND EMBEDDED ITEMS SUCH AS ANCHOR RODS AND WELD PLATES SHALL BE PLACED TO PREVENT DISPLACEMENT BEYOND PERMITTED TOLERANCES.

11. DETAIL BARS IN ACCORDANCE WITH "ACI DETAILING MANUAL-2004", PUBLICATION SP-66, ACI 318, AND ACI 315, OR LATEST EDITIONS.

12. PROVIDE ACCESSORIES NECESSARY TO PROPERLY SUPPORT REINFORCING AT POSITIONS SHOWN ON PLANS.

PRE-ENGINEERED METAL BUILDING SYSTEMS:

1. METAL BUILDING SYSTEMS FOR THIS PROJECT SHALL BE DESIGNED IN ACCORDANCE WITH THE METAL BUILDING MANUFACTURERS ASSOCIATION (MBMA) "2018 - METAL BUILDING SYSTEMS MANUAL", IBC 2021, AND THE LOADS SHOWN S-001 AND S-002. WHERE THERE IS A DISCREPANCY IN DESIGN LOAD REQUIREMENTS, THE MOST STRINGENT REQUIREMENTS SHALL GOVERN.

2. THE CONTRACTOR SHALL SUBMIT FINAL SHOP DRAWINGS PREPARED BY A PROFESSIONAL ENGINEER FOR THE DESIGN OF METAL BUILDING SYSTEMS, INCLUDING DESIGN LOADINGS AND REACTIONS APPLIED TO THE SUPPORTING STRUCTURE.

3. THE METAL BUILDING FOUNDATIONS HAVE BEEN DESIGNED FOR THE MAXIMUM COLUMN REACTIONS PROVIDED ON THE PRELIMINARY PEMB SHOP DRAWINGS.

4. STEEL FRAMING SHALL BE FABRICATED AND ERECTED TO BE ELECTRICALLY CONTINUOUS FOR LIGHTNING PROTECTION.

CONCRETE MASONRY:

1. CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90, TYPE II, TWO CELL UNITS, AND BE MADE WITH NORMAL WEIGHT AGGREGATE. THE COMPRESSIVE STRENGTH OF MASONRY, f'm, EXPRESSED AS FORCE PER UNIT OF NET CROSS-SECTIONAL AREA, SHALL BE 2000 psi AT 28 DAYS.

2. REINFORCING STEEL SHALL COMPLY WITH ASTM A615, GRADE 60. SHOP FABRICATE REINFORCING BARS WHICH ARE SHOWN TO BE HOOKED.

3. GROUT SHALL COMPLY WITH ASTM C476, AND SHALL BE PROPORTIONED TO OBTAIN A 28 DAY COMPRESSIVE STRENGTH OF 2000 psi.

4. MORTAR SHALL COMPLY WITH ASTM C270, TYPE S. AGGREGATE FOR MORTAR SHALL COMPLY WITH ASTM C144. AGGREGATE FAILING TO COMPLY WITH ASTM C144 GRADATION REQUIREMENTS MAY BE USED PROVIDED THE MORTAR CAN BE PREPARED TO COMPLY WITH THE AGGREGATE RATIO, WATER RETENTION, AND COMPRESSIVE STRENGTH REQUIREMENTS OF THE PROPERTY SPECIFICATIONS ASTM C270.

5. PROVIDE VERTICAL REINFORCING BARS OF THE GIVEN SIZE AND SPACING SHOWN ON THE DRAWINGS. TENSION AND COMPRESSION REINFORCEMENT SPLICES IN CONCRETE SHALL BE MADE AS FOLLOWS:
   - #4 BARS - 28"
   - #5 BARS - 35"
   - #6 BARS - 46"
   - #7 BARS - 63"

6. PROVIDE AT LEAST ONE VERTICAL BAR EACH SIDE OF ALL OPENINGS, CONTROL JOINTS, AND AT CORNERS AND INTERSECTIONS OF ALL MASONRY WALLS, BOTH BEARING AND NONBEARING WALLS.

7. PROVIDE REBAR DOWELS FROM THE FOUNDATION OF THE SAME SIZE AND SPACING AS VERTICAL REINFORCING. DOWELS SHALL HAVE STANDARD ACI HOOKS. DOWELS SHALL HAVE A MINIMUM LAP AS SHOWN ON THE DRAWINGS.

8. PROVIDE STANDARD 9 GAGE HORIZONTAL JOINT REINFORCING IN CMU WALLS AT 16" ON CENTER AND IN TWO JOINTS IMMEDIATELY ABOVE AND BELOW ALL OPENINGS, EXTENDING A MINIMUM OF 2'-0" OR 48 BAR DIAMETERS, WHICHEVER IS GREATER, BEYOND THE JAMB ON EACH SIDE OF THE OPENING, EXCEPT AT CONTROL JOINTS.

9. PROVIDE HORIZONTAL BOND BEAMS WITH CONTINUOUS REINFORCING AS SHOWN IN THE SECTIONS AND DETAILS. DISCONTINUE ALL HORIZONTAL REINFORCING AT CONTROL JOINTS EXCEPT FOR THE BOND BEAM AT THE TOP OF THE WALL. INTERMEDIATE BOND BEAMS SHALL BE PROVIDED AS SHOWN.

10. PROVIDE 8" BOND BEAM (MINIMUM DEPTH UNLESS NOTED OTHERWISE) AT TOP OF ALL CMU WALLS AND OVER OPENINGS. REINFORCE BOND BEAM WITH 2 - #5 BARS. DISCONTINUE ALL HORIZONTAL REINFORCING AT CONTROL JOINTS. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR LOCATIONS OF OPENINGS.

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Augusta GEORGIA RECREATION & PARKS

DELTA ENGINEERING

RAYMOND

GEORGIA REGISTERED No. PE27606 PROFESSIONAL ENGINEER JOHN J. SMITH 5/19/2025

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BIG OAK PARK
IMPROVEMENTS
2803 BOY SCOUT ROAD
AUGUSTA, GA 30909

No.	Submittal / Revision	App'd	By	Date
D	BID SET	CM	BEB	05/19/2025
C	PERMIT SET	CM	VD	06/17/2024
B	DESIGN DEVELOPMENT	CM	VD	04/15/2024
A	SCHEMATIC DESIGN	CM	VD	02/23/2024

STRUCTURAL
GENERAL NOTES

Designed By:	Drawn By:	Checked By:
GJ	SG	JJS
Issue Date: 06/14/2024	Project No: 080083	Scale: AS SHOWN

Drawing No:

S-001

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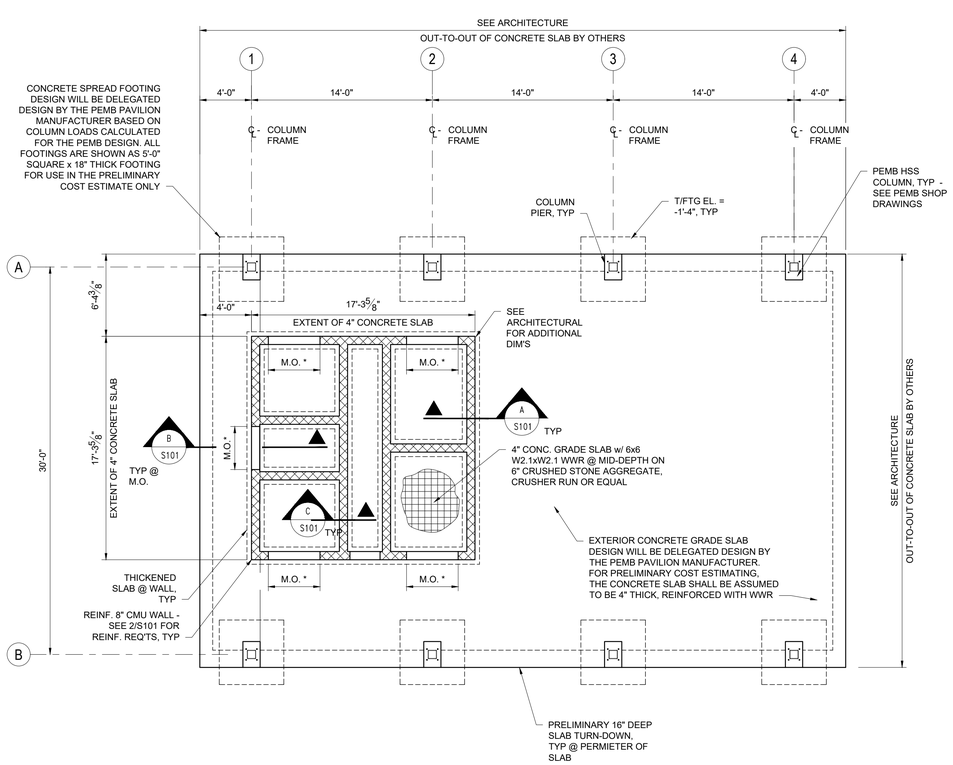
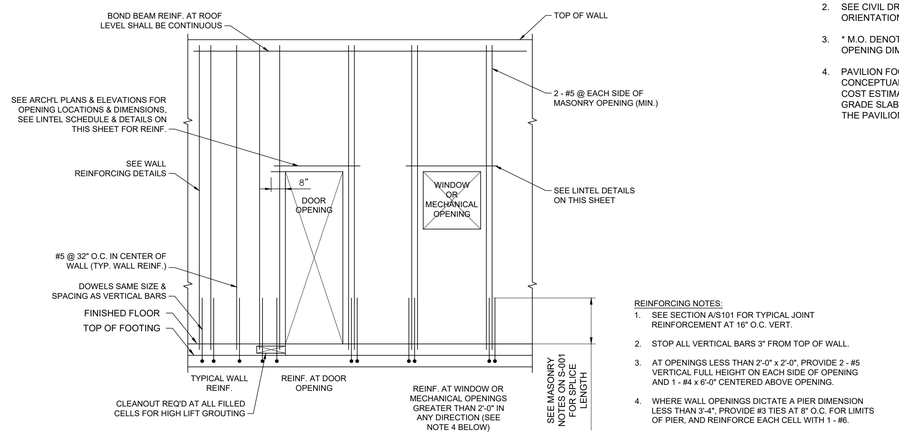
NOTES:

1. SEE S-001 FOR ADDITIONAL STRUCTURAL GENERAL NOTES.
2. SEE CIVIL DRAWINGS FOR PAVILION LOCATION AND ORIENTATION.
3. * M.O. DENOTES MASONRY WALL OPENING. SEE ARCH FOR OPENING DIMENSIONS.
4. PAVILION FOOTING AND EXTERIOR GRADE SLAB DESIGN IS CONCEPTUAL INTENDED TO BE USED FOR PRELIMINARY COST ESTIMATING ONLY. THE PAVILION FOUNDATION AND GRADE SLAB WILL BE A DELEGATED DESIGN PROVIDED BY THE PAVILION MANUFACTURER.



1 S-102 FOUNDATION AND GRADE SLAB PLAN

3/16" = 1'-0"
T/SLAB EL. = 0'-0" U.N.

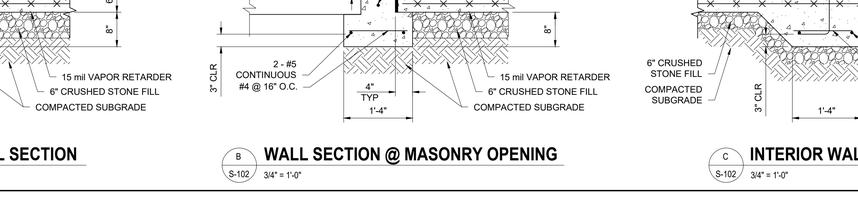


REINFORCING NOTES:

1. SEE SECTION A/S101 FOR TYPICAL JOINT REINFORCEMENT AT 16" O.C. VERT.
2. STOP ALL VERTICAL BARS 3" FROM TOP OF WALL.
3. AT OPENINGS LESS THAN 2'-0" x 2'-0", PROVIDE 2 - #5 VERTICAL FULL HEIGHT ON EACH SIDE OF OPENING AND 1 - #4 x 6'-0" CENTERED ABOVE OPENING.
4. WHERE WALL OPENINGS DICTATE A PIER DIMENSION LESS THAN 3'-4", PROVIDE #3 TIES AT 8" O.C. FOR LIMITS OF PIER, AND REINFORCE EACH CELL WITH 1 - #6.

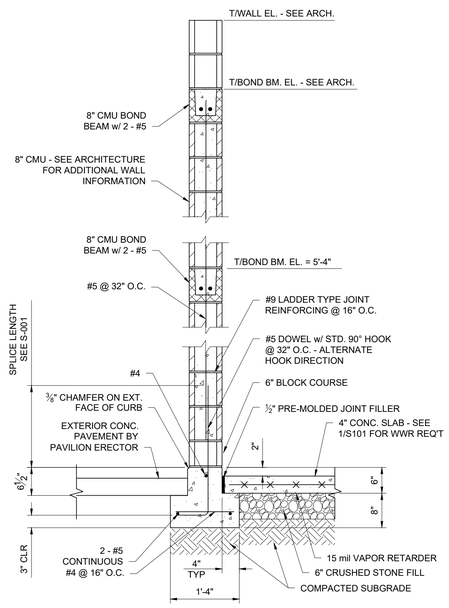
2 S-102 WALL REINFORCING ELEVATION

NTS



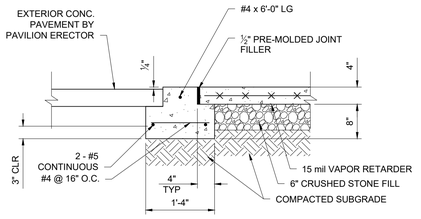
3 S-102 WALL REINFORCING DETAILS

NTS



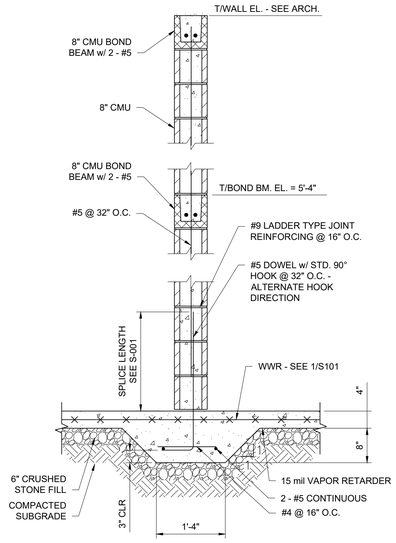
A S-102 EXTERIOR WALL SECTION

3/4" = 1'-0"



B S-102 WALL SECTION @ MASONRY OPENING

3/4" = 1'-0"



C S-102 INTERIOR WALL SECTION

3/4" = 1'-0"

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BIG OAK PARK IMPROVEMENTS
2803 BOY SCOUT ROAD
AUGUSTA, GA 30909

No.	Submittal / Revision	App'd	By	Date
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C	PERMIT SET	CM	VD	06/17/2024
B	DESIGN DEVELOPMENT	CM	VD	04/15/2024
A	SCHEMATIC DESIGN	CM	VD	02/23/2024

PICNIC PAVILION FOUNDATION PLAN SECTIONS AND DETAILS

Designed By:	Drawn By:	Checked By:
GJ	SG	JJS
Issue Date: 06/14/2024	Project No: 080083	Scale: AS SHOWN

Drawing No:

S-101

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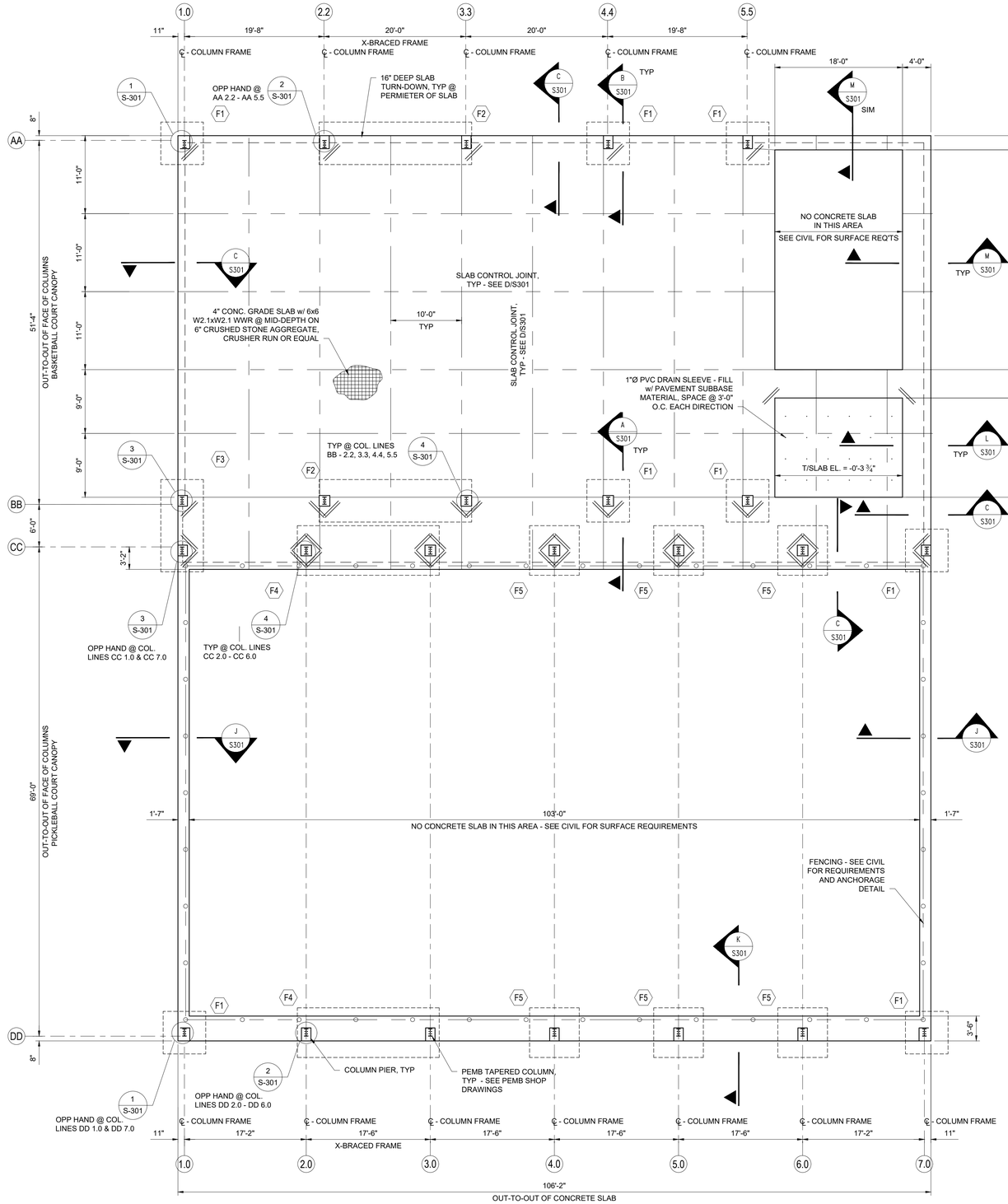

B1 S-102

FOUNDATION AND GRADE SLAB PLAN

1/8" = 1'-0"

T/SLAB EL. = 0'-0" U.N.

NOTES:

1. SEE S-001 FOR ADDITIONAL STRUCTURAL GENERAL NOTES.
2. SEE CIVIL DRAWINGS FOR AIRNASIUM LOCATION AND ORIENTATION.
3. COLUMN ARRANGEMENT IS BASED ON PRELIMINARY COLUMN LAYOUTS PROVIDED BY CLEARSPAN FOR THE AIRNASIUM PROJECT. CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD OF ANY CHANGES TO THE FRAMING CONFIGURATION ON THE FINAL SHOP DRAWING SUBMITTAL FOR RESOLUTION TO ANY DISCREPANCIES WITH THE FOUNDATION DRAWINGS.
4. FOUNDATION DESIGN IS BASED ON PRELIMINARY PEMB COLUMN DESIGN LOADS PROVIDED BY CLEARSPAN ENGINEERING SERVICES AND PRODUCTS.DESIGN COLUMN LOADS ARE BASED ON THE BUILDING SIZE, COLUMN SPACING AND SPAN, EAVE HEIGHT AND ROOF SLOPE SHOWN ON THE CLEARSPAN PRELIMINARY DRAWINGS. THESE LOADS ARE SHOWN ON THE COLUMN LOAD TABLE ON S-301. IF FINAL DESIGN LOADS ARE DIFFERENT THAN THE LOADS SHOWN IN THE TABLE, THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD FOR RESOLUTION.

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BIG OAK PARK
IMPROVEMENTS
2803 BOY SCOUT ROAD
AUGUSTA, GA 30909

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C	PERMIT SET	CM	VD	06/17/2024
B	DESIGN DEVELOPMENT	CM	VD	04/15/2024
A	SCHEMATIC DESIGN	CM	VD	02/23/2024

AIRNASIUM
FOUNDATION PLAN

Designed By:	Drawn By:	Checked By:
GJ	SG	JJS
Issue Date:	Project No:	Scale:
06/14/2024	080083	AS SHOWN

Drawing No:

S-102

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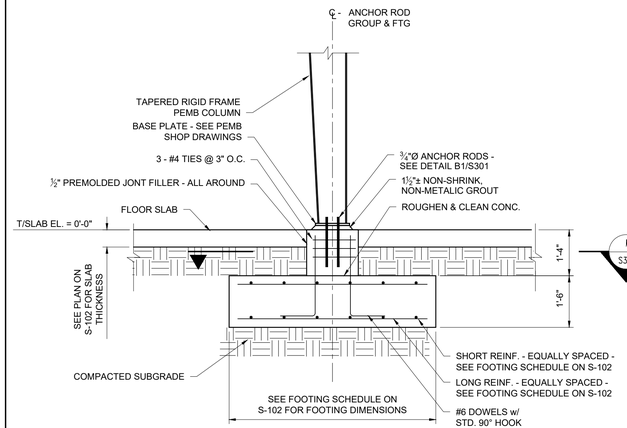
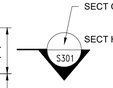
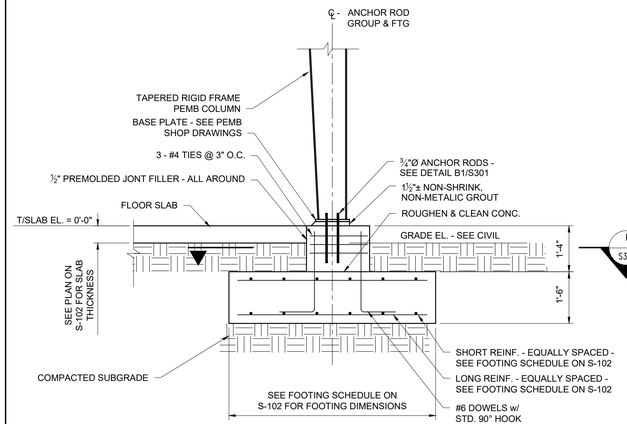
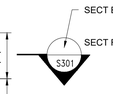




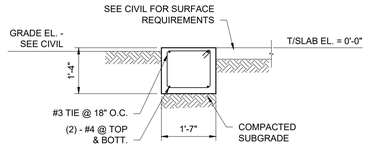
A S-102 **SECTION** 1/2" = 1'-0"



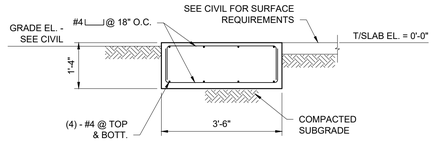


B S-102 **SECTION** 1/2" = 1'-0"

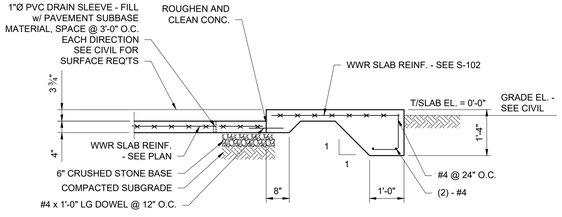
FOOTING SCHEDULE				
FOOTING DESIGNATION	FOOTING WIDTH	FOOTING LENGTH	REINFORCING WIDTH, TOP & BOTTOM	REINFORCING LENGTH, TOP & BOTTOM
F1	6'-0"	6'-0"	7 - #5 EQUAL. SPA.	7 - #5 EQUAL SPA.
F2	6'-0"	21'-6"	7 - #5 EQUAL. SPA.	21 - #6 EQUAL SPA.
F3	13'-0"	6'-0"	14 - #5 EQUAL. SPA.	7 - #5 EQUAL SPA.
F4	20'-0"	7'-0"	21 - #5 EQUAL. SPA.	8 - #5 EQUAL SPA.
F5	7'-0"	7'-0"	8 - #5 EQUAL. SPA.	8 - #5 EQUAL SPA.



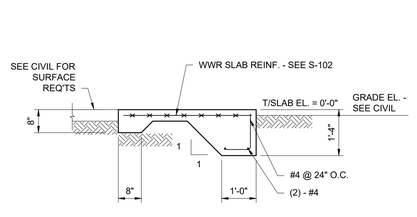
J S-102 **SECTION** 1" = 1'-0"



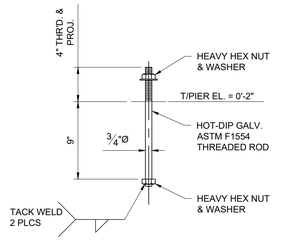
K S-102 **SECTION** 1" = 1'-0"



L S-102 **SECTION** 1" = 1'-0"



M S-102 **SECTION** 1" = 1'-0"



5 S-301 **DETAIL** 1/2" = 1'-0"

COLUMN LOAD TABLES

BASKETBALL CANOPY

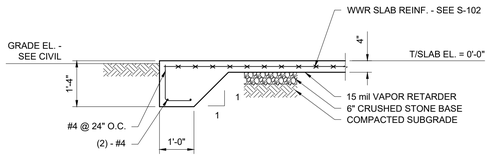
LOAD CASE	FRAME LINES 1 & 5				FRAME LINES 2 - 4			
	COLUMN A		COLUMN B		COLUMN A		COLUMN B	
	VERTICAL	HORIZONTAL	VERTICAL	HORIZONTAL	VERTICAL	HORIZONTAL	VERTICAL	HORIZONTAL
DEAD	1.95	0.66	2.37	-0.66	1.95	0.66	2.37	-0.66
LIVE	1.11	0.44	1.13	-0.44	1.11	0.44	1.13	-0.44
ROOF LIVE	6.57	2.58	6.70	-2.58	6.57	2.58	6.70	-2.58
SNOW	6.07	2.39	6.20	-2.39	6.07	2.39	6.20	-2.39
WIND LEFT 1	-2.86	-1.51	-12.53	4.07	-2.86	-1.51	-12.53	4.07
WIND RIGHT 1	-14.16	-2.86	-14.99	7.72	-14.16	-2.86	-14.99	7.72
WIND LEFT 2	6.80	0.69	0.20	-1.85	6.80	0.69	0.20	-1.85
WIND RIGHT 2	-9.54	-2.89	-19.90	7.79	-9.54	-2.89	-19.90	7.79
WIND LONG1	-12.09	-2.72	-15.67	7.35	-14.94	-2.35	-22.63	6.34
WIND LONG2	8.06	1.82	10.45	-4.90	1.89	1.44	-0.81	-3.89
SEISMIC LEFT	-0.09	-0.15	0.09	-0.10	-0.07	-0.13	0.07	-0.08
SEISMIC RIGHT	0.09	0.15	-0.09	0.10	0.07	0.13	-0.07	0.08
SEISMIC LONG	0.00	0.00	0.00	0.00	-0.27	0.00	-0.47	0.00
WIND LEFT 3	11.07	2.86	18.07	-7.72	11.07	2.86	18.07	-7.72
WIND RIGHT 3	-10.15	-2.01	-10.29	5.41	-10.15	-2.01	-10.29	5.41
WIND LEFT 4	14.15	2.30	9.27	-6.20	14.15	2.30	9.27	-6.20
WIND RIGHT 4	-2.95	-1.73	-14.74	4.68	-2.95	-1.73	-14.74	4.68

THE COLUMN REACTION FORCES NOTED ABOVE HAVE BEEN USED IN THE DESIGN OF THE BASKETBALL CANOPY FOUNDATIONS. THEY ARE BASED ON LOADS PROVIDED IN THE PRELIMINARILY SHOP DRAWINGS PROVIDED BY CLEARSPAN ENGINEERING SERVICES AND PRODUCTS FOR 52'-8" x 80'-0" x 15'-0" x 23'-9 5/16" STRUCTURE. ANY CHANGES IN THE LOADS SHOWN ON THE FINAL SHOP DRAWINGS SUBMITTED AFTER THE ISSUED FOR CONSTRUCTION DRAWINGS MUST BE TRANSMITTED TO EOR TO EVALUATED THE IMPACT ON THE FOUNDATION DESIGN.

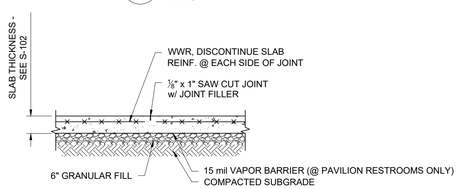
PICKLEBALL CANOPY

LOAD CASE	FRAME LINES 1 & 7				FRAME LINES 2 - 6			
	COLUMN A		COLUMN B		COLUMN A		COLUMN B	
	VERTICAL	HORIZONTAL	VERTICAL	HORIZONTAL	VERTICAL	HORIZONTAL	VERTICAL	HORIZONTAL
DEAD	1.77	0.64	2.52	-0.64	2.62	1.18	3.65	-1.18
LIVE	0.65	0.27	0.82	-0.27	1.28	0.66	1.61	-0.66
ROOF LIVE	3.82	1.57	5.44	-1.57	7.51	3.81	10.66	-3.81
SNOW	1.35	0.57	1.70	-0.57	2.65	1.37	3.33	-1.37
WIND LEFT 1	-1.62	-0.74	-9.51	2.59	-3.19	-2.42	-18.65	6.06
WIND RIGHT 1	-8.61	-1.69	-10.72	4.91	-16.92	-5.22	-21.03	11.54
WIND LEFT 2	4.24	0.54	-0.39	-1.18	8.31	1.55	-0.77	-2.80
WIND RIGHT 2	-5.65	-1.52	-15.00	4.96	-11.12	-4.86	-29.40	11.61
WIND LONG1	-7.55	-1.92	-9.43	4.76	-23.08	-5.25	-41.34	10.48
WIND LONG2	5.04	1.28	6.29	-3.17	-0.09	3.39	-12.69	-6.77
SEISMIC LEFT	-0.06	-0.12	0.06	-0.07	-0.08	-0.17	0.08	-0.11
SEISMIC RIGHT	0.06	0.12	0.07	-0.06	0.08	0.17	-0.08	0.17
SEISMIC LONG					-0.62	0.00	-1.26	0.00
WIND LEFT 3	6.64	1.57	13.42	-4.91	13.05	4.95	26.31	-11.51
WIND RIGHT 3	-6.18	-1.20	-7.32	3.45	-12.14	-3.68	-14.35	8.10
WIND LEFT 4	8.68	1.47	6.20	-3.95	17.05	4.43	12.15	e
WIND RIGHT 4	-1.62	-0.80	-11.44	2.98	-3.20	-2.68	-22.43	6.95

THE COLUMN REACTION FORCES NOTED ABOVE HAVE BEEN USED IN THE DESIGN OF THE PICKLEBALL CANOPY FOUNDATIONS. THEY ARE BASED ON LOADS PROVIDED IN THE PRELIMINARILY SHOP DRAWINGS PROVIDED BY CLEARSPAN ENGINEERING SERVICES AND PRODUCTS FOR 52'-8" x 80'-0" x 15'-0" x 23'-9 5/16" STRUCTURE. ANY CHANGES IN THE LOADS SHOWN ON THE FINAL SHOP DRAWINGS SUBMITTED AFTER THE ISSUED FOR CONSTRUCTION DRAWINGS MUST BE TRANSMITTED TO EOR TO EVALUATED THE IMPACT ON THE FOUNDATION DESIGN.

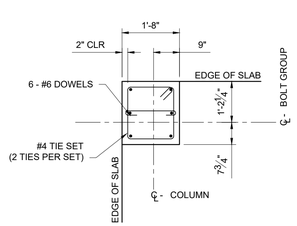


C S-102 **SECTION** 1" = 1'-0"

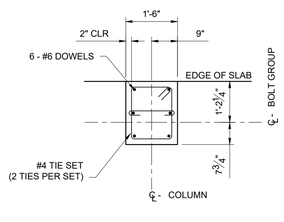


NOTES:
1. SLAB SHALL BE SAWN AS SOON AS THE CONCRETE WILL SAFELY SUPPORT MEN AND EQUIPMENT.
2. FILL JOINT WITH SEALANT AFTER SLAB HAS BEEN CURED.

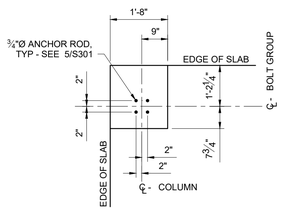
D S-102 **SECTION** NTS



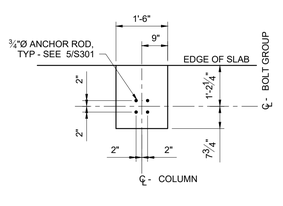
E S-102 **SECTION** 1" = 1'-0"



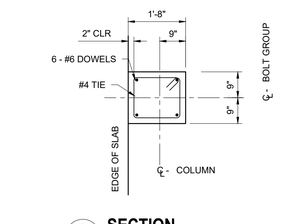
F S-102 **SECTION** 1" = 1'-0"



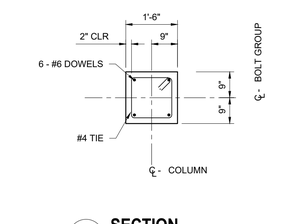
1 S-102 **DETAIL** 1/2" = 1'-0"



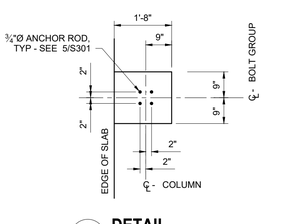
2 S-102 **DETAIL** 1/2" = 1'-0"



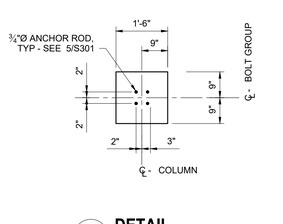
G S-102 **SECTION** 1" = 1'-0"



H S-102 **SECTION** 1" = 1'-0"



3 S-102 **DETAIL** 1/2" = 1'-0"



4 S-102 **DETAIL** 1/2" = 1'-0"

Central File: Update this text with Central file location
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DELTA ENGINEERING

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GEORGIA REGISTERED No. PE27606 PROFESSIONAL ENGINEER JOHN J. SMITH 5/19/2025

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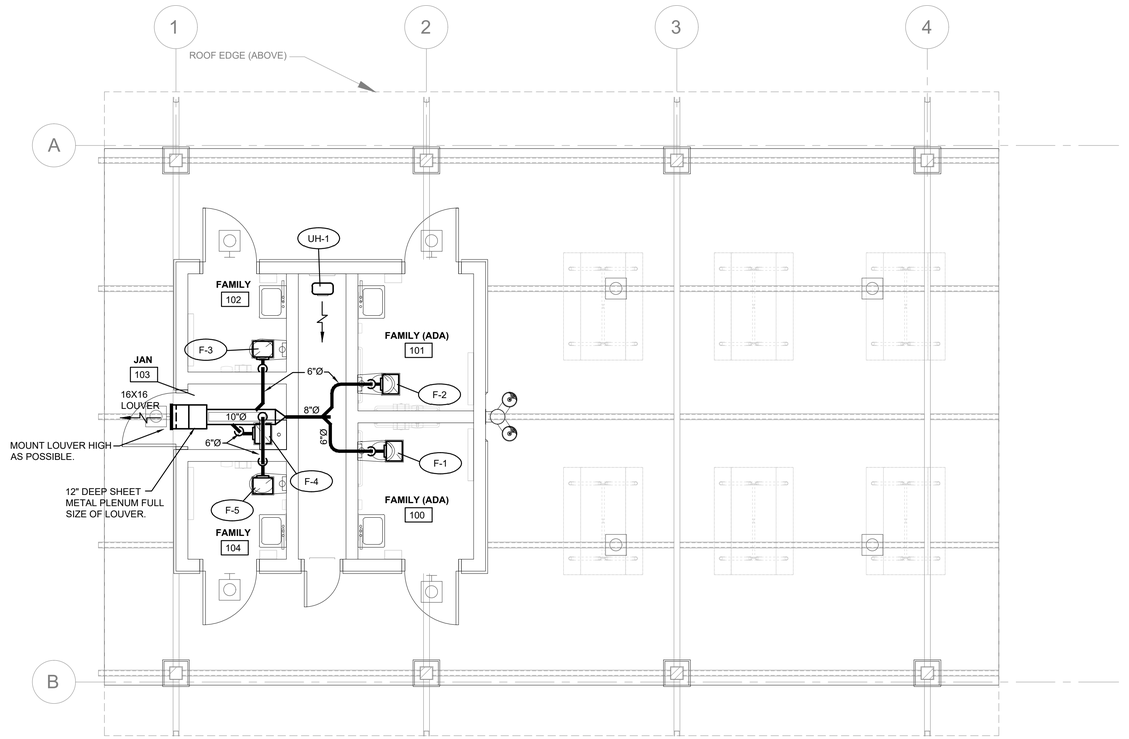
BIG OAK PARK
IMPROVEMENTS
2803 BOY SCOUT ROAD
AUGUSTA, GA 30909

No.	Submittal / Revision	App'd	By	Date
D	BID SET	CM	BEB	05/19/2025
C	PERMIT SET	CM	VD	06/17/2024
B	DESIGN DEVELOPMENT	CM	VD	04/15/2024
A	SCHEMATIC DESIGN	CM	VD	02/23/2024

FOUNDATION SECTIONS AND DETAILS

Designed By:	Drawn By:	Checked By:
GJ	SG	JJS
Issue Date: 06/14/2024	Project No: 080083	Scale: AS SHOWN

Drawing No:
S-301



N

1 / M-100 HEATING & VENTILATION PLAN

SCALE: 1/4"=1'-0"

4' 0' 4' 8' 12' 16'

GRAPHIC SCALE IN FEET

2024-074

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BIG OAK PARK
IMPROVEMENTS
2803 BOY SCOUT ROAD
AUGUSTA, GA 30909

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B	DESIGN DEVELOPMENT	CM	VD	04/15/2024
A	SCHEMATIC DESIGN	CM	VD	02/23/2024

HEATING &
VENTILATION PLAN

Designed By:	Drawn By:	Checked By:
MHW	MHW	CAB
Issue Date: 09/30/2024	Project No: 080083	Scale: AS SHOWN

Drawing No:

M-100

HVAC GENERAL NOTES

INSTALL DUCTWORK AND PIPING ABOVE CEILINGS WHERE POSSIBLE AND IN CHASES TO PROVIDE MAXIMUM POSSIBLE CLEARANCE'S FOR MAINTENANCE ACCESS. INSTALL PIPING AND DUCTWORK IN EQUIPMENT ROOMS PARALLEL OR PERPENDICULAR TO WALLS AND CEILINGS UNLESS SHOWN OTHERWISE.

ALL DUCTWORK AND PIPING SHALL BE CONCEALED UNLESS NOTED OTHERWISE.

COORDINATE THE INSTALLATION OF DUCTWORK AND PIPING WITH THAT OF OTHER TRADES TO PROVIDE THE BEST POSSIBLE ARRANGEMENT. REFER TO PLUMBING, ELECTRICAL, AND STRUCTURAL DRAWINGS AND SPRINKLER SHOP DRAWINGS. ARRANGE PIPING AND DUCTWORK TO AVOID CONFLICTS WITH OTHER BUILDING TRADES.

UNLESS DIMENSIONED, PIPING, DUCTWORK, AND EQUIPMENT ARE SHOWN IN APPROXIMATE LOCATIONS. EXACT CONFIGURATION SHALL BE DETERMINED IN THE FIELD TO COORDINATE WITH OTHER TRADES AND TO ALLOW FOR A MINIMUM NUMBER OF OFFSETS AS POSSIBLE WHILE ALLOWING FOR ADEQUATE MAINTENANCE ACCESS.

FURNISH FLEXIBLE DUCT CONNECTIONS TO ALL AIR HANDLING EQUIPMENT.

FURNISH FLANGED OR UNION CONNECTIONS IN PIPING AT ALL EQUIPMENT AND CONTROL VALVES, AND AS REQUIRED FOR SERVICE.

EXACT LOCATION OF AIR DEVICES SHALL BE DETERMINED IN THE FIELD. COORDINATE WITH ARCHITECTURAL REQUIREMENTS AND LIGHTING. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS AND ELECTRICAL PLANS FOR LIGHT LOCATIONS. AIR DEVICE LOCATIONS SHALL BE INSTALLED WITH A UNIFORM APPEARANCE AND SHALL BE SYMMETRICAL.

DUCT ACCESS DOORS SHALL BE FURNISHED AT ALL FIRE AND SMOKE DAMPERS, DUCT MOUNTED COILS, AND AT ALL DUCT MOUNTED CONTROL DEVICES.

SLOPE DRAIN LINE TOWARDS DRAIN WITH A MINIMUM SLOPE OF 1/4" PER FOOT.

THERMOSTAT LOCATIONS SHALL BE A MINIMUM OF 8" AWAY FROM DOOR FRAMES. COORDINATE LOCATION OF THERMOSTATS WITH LIGHT SWITCHES AND OTHER WALL DEVICES FOR SYMMETRY. MOUNT AT 4'-0" A.F. UNLESS NOTED OTHERWISE.

H.V.A.C. LEGEND

SYMBOL	DESCRIPTION
TYP.	TYPICAL
S.P.	STATIC PRESSURE
(T)	THERMOSTAT 4'-0" A.F.
Ø	DIAMETER
	FLEXIBLE DUCT CONNECTION AT UNIT
	LINED DUCT (SIZE SHOWN IS METAL SIZE)
	SQUARE ELBOW WITH TURNING VANES
MVD	MANUAL VOLUME DAMPER
C.F.M.	CUBIC FEET PER MINUTE
F-1	EQUIPMENT NUMBER - SEE SCHEDULES
	AIRFLOW DIRECTION

FAN SCHEDULE

ITEM	LOCATION	C.F.M.	EXT. S.P. (IN. WC)	WATTS	R.P.M.	SONES	GREENHECK MODEL NO.	ELECTRICAL DATA (3)		NOTES
								VOLTS	PHASE	
F-1	FAMIILY 100	80	0.5"	30	780	2.5	SP-A200	115	1Ø	(1)(2)
F-2	FAMILTY 101	80	0.5"	30	780	2.5	SP-A200	115	1Ø	(1)(2)
F-3	FAMILY 102	80	0.5"	30	780	2.5	SP-A200	115	1Ø	(1)(2)
F-4	JANITOR 103	80	0.5"	30	780	2.5	SP-A200	115	1Ø	(1)(2)
F-5	FAMILY 104	80	0.5"	30	780	2.5	SP-A200	115	1Ø	(1)(2)

(1) FURNISH BACKDRAFT DAMPER, HANGING BRACKETS, METAL CEILING GRILLE, SPEED CONTROLLER, AND DISCONNECT MEANS.
(2) SWITCH WITH ROOM LIGHTS. FURNISH AUXILIARY CONTACTS AS REQUIRED.
(3) COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL PLANS & CONTRACTOR BEFORE ORDERING EQUIPMENT. NOTIFY ENGINEER IMMEDIATELY IF DISCREPANCIES FOUND.

ELECTRIC HEATER SCHEDULE

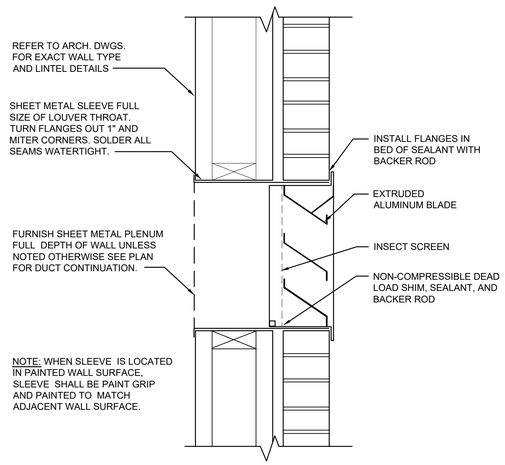
ITEM	LOCATION	WATTS	QMARK MODEL NO.	ELECTRICAL DATA (2)		NOTES
				VOLTS	PHASE	
UH-1	PIPING CHASE	3000	MUH -03	240	1	(1)

(1) FURNISH BRACKET FOR SUSPENDED MOUNTING AND UNIT THERMOSTAT.
(2) COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL PLANS & CONTRACTOR BEFORE ORDERING EQUIPMENT. NOTIFY ENGINEER IMMEDIATELY IF DISCREPANCIES FOUND.

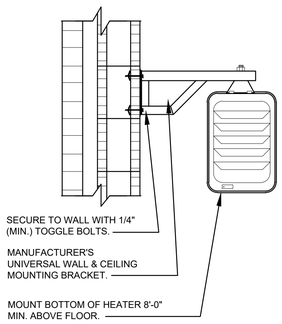
AIR DEVICE SCHEDULE

MARK	TYPE	NECK SIZE	FINISH	OPPOSED BLADE DAMPER	TITUS MODEL NUMBER	NOTES
LOUVER	STATIONARY LOUVER	SEE PLANS	(1)	NO	GREENHECK ESD-6	

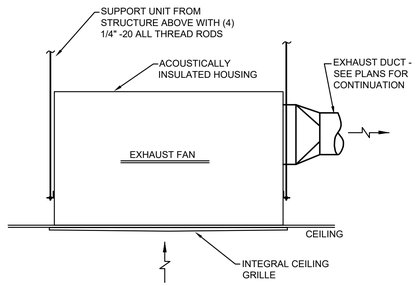
(1) EXTRUDED ALUMINUM LOUVER - BAKED ENAMEL FINISH, STANDARD COLOR SELECTED BY ARCHITECT. FURNISH INSECT SCREEN AND FLANGE FRAME.



2 M-200 LOUVER DETAIL
SCALE: NONE



1 M-200 ELECTRIC UNIT HEATER MOUNTING DETAIL
SCALE: NONE



3 M-200 CEILING FAN DETAIL
SCALE: NONE

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SDC Sustainable Design Consultants, LLC

GEORGIA REGISTERED NO. PE2659 PROFESSIONAL ENGINEER CAPRICE BAUMERT
5-19-25

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BIG OAK PARK IMPROVEMENTS
2803 BOY SCOUT ROAD
AUGUSTA, GA 30909

No.	Submittal / Revision	App'd	By	Date
D	BID SET	CM	BEB	05/19/2025
C	PERMIT SET	CM	VD	06/17/2024
B	DESIGN DEVELOPMENT	CM	VD	04/15/2024
A	SCHEMATIC DESIGN	CM	VD	02/23/2024

HEATING & VENTILATION NOTES, LEGEND, DETAILS & SCHEDULES

Designed By:	Drawn By:	Checked By:
MHW	MHW	CAB
Issue Date: 09/30/2024	Project No: 080083	Scale: AS SHOWN

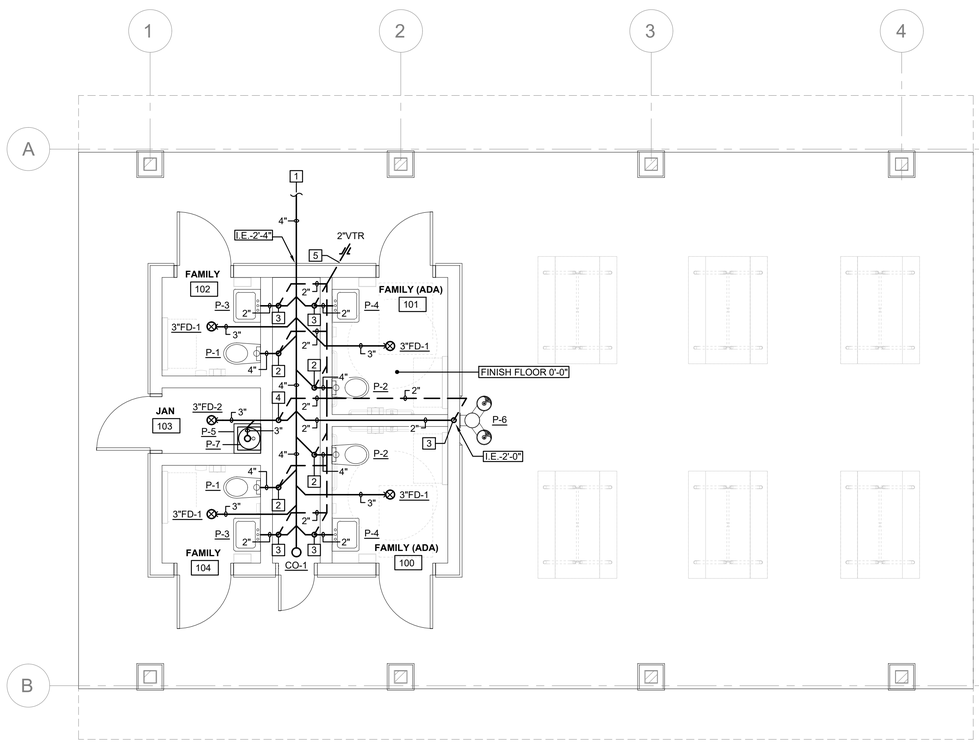
Drawing No:
M-200

2024-074

KEY NOTES - THIS SHEET

1. EXTEND TO 5'-0" BEYOND BUILDING AND PROVIDE TEMPORARY CAP. CONTINUATION BY OTHERS.
2. 4" WASTE, 2" VENT.
3. 2" WASTE, 2" VENT.
4. 2" VENT.
5. 2" VENT UP IN CHASE THRU ROOF.

NOTE: ALL VENTS SHALL BE EXTENDED THRU ROOF AND SHALL MAINTAIN 10'-0" CLEARANCE FROM FRESH AIR INTAKES. (TYPICAL)

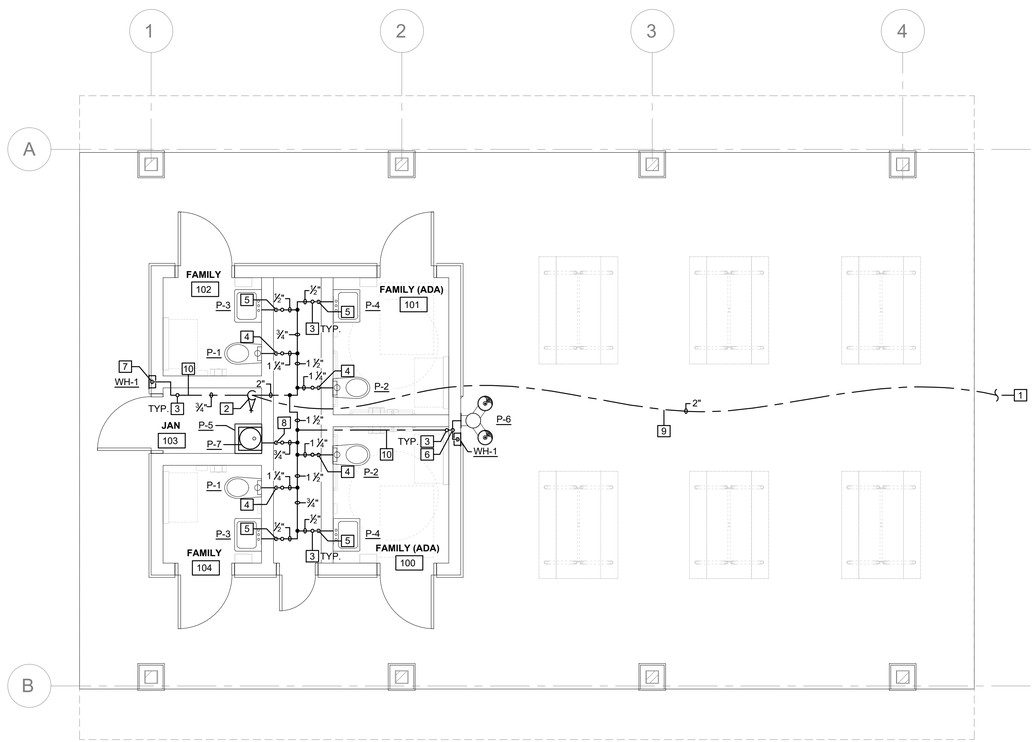


1 / P-100 WASTE & VENT PIPING PLAN

SCALE: 1/4" = 1' - 0"

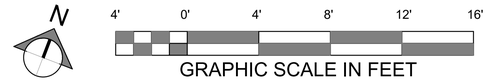
KEY NOTES - THIS SHEET

1. EXTEND TO 5'-0" BEYOND BUILDING AND PROVIDE TEMPORARY CAP. CONTINUATION BY OTHERS.
2. 2" CW UP. PROVIDE GATE VALVE ON RISER ± 12" A.F.F. WITH WALL HYDRANT 18" A.F.G. SEE DETAIL 10/P-101.
3. INDICATES NEW SHOCK ABSORBER (SA) "X". UNLESS NOTED ON DRAWINGS, SIZE SHALL BE "A". PROVIDE BALL VALVE ON CONNECTION TO SA. SEE DETAIL 7/P-101.
4. 1-1/4" CW DOWN AND THRU WALL TO WATER CLOSET.
5. 1/2" CW DOWN AND THRU WALL TO LAVATORY.
6. 3/4" CW DOWN. PROVIDE 1/2" CW DOWN TO DRINKING FOUNTAIN. PROVIDE 3/4" CW DOWN TO WALL HYDRANT.
7. 3/4" CW DOWN TO WALL HYDRANT.
8. 3/4" CW DOWN TO MOP RECEPTOR AND WATER HEATER. SEE DETAIL 9/P-101. PROVIDE CHECK VALVES ON SUPPLIES TO MOP RECEPTOR.
9. ROUTE 2" CW PIPING UNDERSLAB WITH CONTINUOUS TYPE "L" SOFT COPPER.
10. FURNISH HEAT TRACE ON PIPING IN UNHEATED SPACES.



2 / P-100 WATER PIPING PLAN

SCALE: 1/4" = 1' - 0"



2024-074

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Augusta GEORGIA RECREATION & PARKS
DELTA ENGINEERING
RAYMOND
SDC Sustainable Design Consultants, LLC

GEORGIA REGISTERED NO. PE28659 PROFESSIONAL ENGINEER CAPRICE BAUMERT 5-19-25

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BIG OAK PARK
IMPROVEMENTS
2803 BOY SCOUT ROAD
AUGUSTA, GA 30909

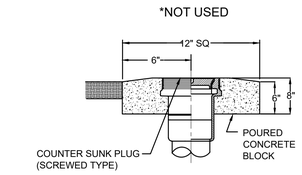
No.	Submittal / Revision	App'd	By	Date
D	BID SET	CM	BEB	05/19/2025
C	PERMIT SET	CM	VD	06/17/2024
B	DESIGN DEVELOPMENT	CM	VD	04/15/2024
A	SCHEMATIC DESIGN	CM	VD	02/23/2024

PLUMBING PLANS

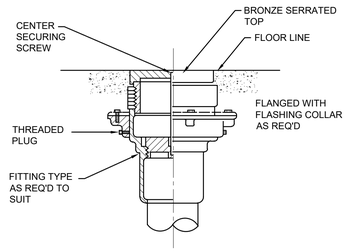
Designed By:	Drawn By:	Checked By:
NES	NES	CAB
Issue Date: 09/30/2024	Project No: 080083	Scale: AS SHOWN

Drawing No:

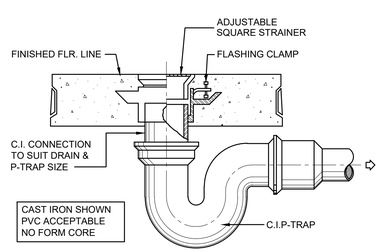
P-100



1 P-101 EXTERIOR CLEANOUT DETAIL
NOT TO SCALE



2 P-101 INTERIOR CLEANOUT DETAIL
NOT TO SCALE

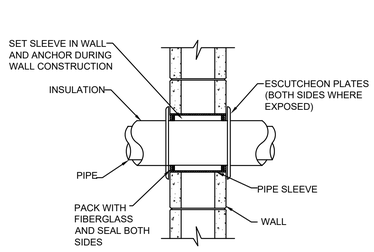


3 P-101 TYPICAL FLOOR DRAIN DETAIL
NOT TO SCALE

4 P-101 PIPE THRU FLOOR SLAB DETAIL
NOT TO SCALE

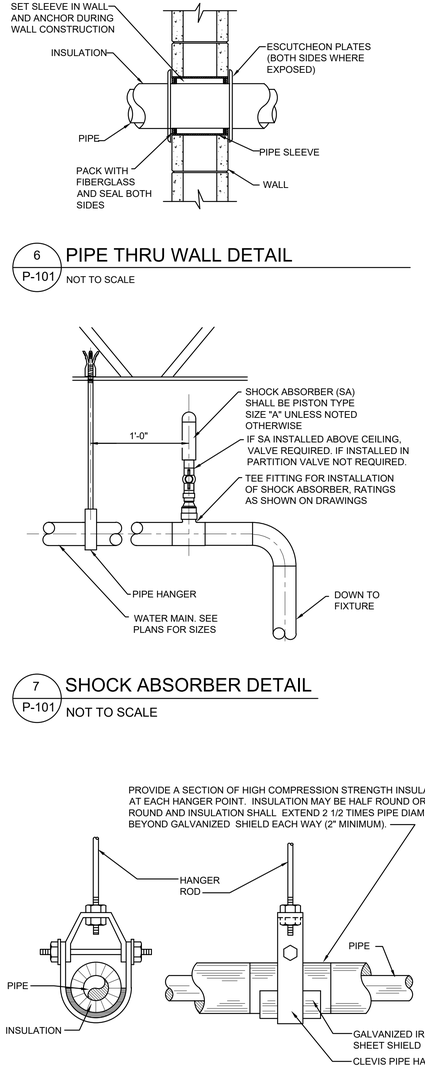
WHITE BAKELITE PLATE WITH BLACK ½" LETTERS. PROVIDE AT EACH VALVE LOCATION. CONTRACTOR SHALL INDICATE VALVE NUMBER AND TAG WITH LOCATIONS ON FINAL AS BUILT DOCUMENTS. TAG SHALL BE SECURED TO CEILING "T-BAR" WITH POP RIVETS.

5 P-101 VALVE TAG DETAIL
NOT TO SCALE

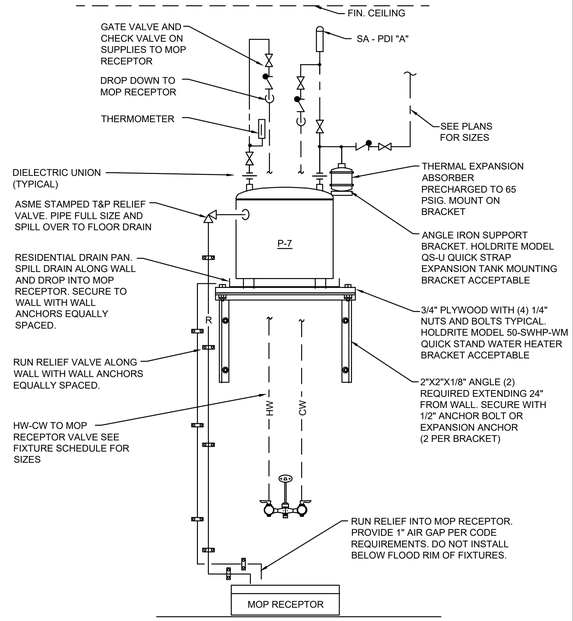


6 P-101 PIPE THRU WALL DETAIL
NOT TO SCALE

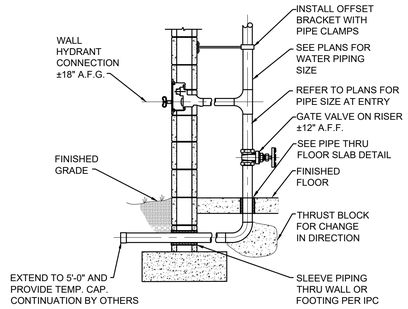
7 P-101 SHOCK ABSORBER DETAIL
NOT TO SCALE



8 P-101 PIPE HANGER DETAILS
NOT TO SCALE FOR PIPE 2 1/2" AND SMALLER



9 P-101 PLATFORM WATER HEATER DETAIL
NOT TO SCALE



SPECIAL NOTE: WATER PIPING WITHIN THE BUILDING SHALL BE SLOPED BACK TO MAIN ENTERING BUILDING. DURING FREEZING CONDITIONS SYSTEM SHALL BE DRAINED TO PREVENT FREEZING"

10 P-101 WATER RISER DETAIL
NOT TO SCALE

PLUMBING FIXTURE SCHEDULE

SYM	FIXTURE	PIPE SIZES W	V	CW	HW	RIM HGT / MTG HGT	DESCRIPTION (AM. STD. REFERENCED)
P-1	TOILET	4"	2"	1-1/2"	--	15"	ACORN DURA-WARE 2105-W-1-1.28-FVBO-HPS; SS SIPHON JET TOILET, REAR OUTLET AND INTEGRAL SEAT. CONCEALED SLOAN ROYAL #152-128-10-¾"-LDIM FLUSH VALVE. JR SMITH 0230Y FIXTURE SUPPORT.
P-2	TOILET H/C	4"	2"	1-1/2"	--	ADA	SAME AS P-1 WITH ADA MOUNTING HEIGHT. (1)
P-3	LAVATORY	2"	2"	1/2"	--	27"	ACORN PENAL-WARE 1652-1-BP-LW1; SS LAVATORY, THRU-WALL WASTE EXTENSION, SUPPLIES, STOPS, AND WASTE. JR SMITH 801 FIXTURE SUPPORT.
P-4	LAVATORY H/C	2"	2"	1/2"	--	ADA	SAME AS P-3 WITH ADA MOUNTING HEIGHT. (1) (2)
P-5	MOP RECEPTOR	3"	2"	1/2"	1/2"	V.A. 41"	FIAT MSB 2424; 830-AA FAUCET, 833-AA HOSE & BRACKET, 889-CC HANGAR, AND E-88-AA SS GUARD.
P-6	OUTDOOR DRINK FOUNTAIN	2"	2"	1/2"	--	--	ELKAY LK4406; HEAVY DUTY, VANDAL RESISTANT NON-FILTERED, NON-REFRIGERATED FOUNTAIN. COLOR TO BE SPEC'D BY ARCHITECT. (5)
P-7	WATER HEATER	--	--	3/4"	3/4"	--	A.O. SMITH DEL-10, 10 GAL, 3KW, 208/1Ø. COORDINATE WITH ELECTRICAL.
FD-1	FLOOR DRAIN (GENERAL)	3"	--	--	--	--	WATTS FD-100-A (3) (4)
FD-2	FLOOR DRAIN (MECH.RM)	3"	--	--	--	--	WATTS FD-100-ER (4)
WH-1	WALL HYDRANT	--	--	3/4"	--	12" INT 18" EXT	WATTS HY-330
CO-1	CLEAN OUT INTERIOR	4"	--	--	--	--	WATTS CO-200-RFC7 (3)

PLUMBING FIXTURE KEY NOTES:

(1) MOUNT AT ADA HEIGHT. ADA SHALL CONFORM TO ACCESSIBILITY CODE. REFER TO CODE FOR GUIDANCE. WHERE CONFLICTS ARISE BETWEEN ARCHITECTURAL DRAWINGS AND MECHANICAL DRAWINGS, ARCHITECTURAL DRAWING SHALL GOVERN.

(2) PROVIDE PROTECTIVE PIPE COVERS FOR ALL HANDICAP LAVATORIES.

(3) PROVIDE 7" STRAINER ON 3" DRAIN AND 9" STRAINER ON 4" DRAINS. PROVIDE SUFFIX "M" (SQUARE TOP) FOR QUARRY TILE AND CERAMIC TILE FLOORS AND SUFFIX "A" (ROUND TOP) FOR ALL OTHER FLOORS.

(4) PROVIDE TRAP GUARDS ON ALL HUB DRAINS AND FLOOR DRAINS. IF APPROVED BY LOCAL AHJ. IF NOT APPROVED PROVIDE TRAP PRIMERS.

(5) INSULATE TRAP AND CW PIPING TO PREVENT FREEZING DURING FREEZING WEATHER CONDITIONS.

GENERAL PLUMBING NOTES

1. EXACT LOCATIONS AND ROUGHING REQUIREMENTS FOR ALL FIXTURES AND EQUIPMENT SHALL BE DETERMINED FROM ARCHITECTURAL DRAWINGS. LARGE SCALE ARCHITECTURAL DETAILS AND APPROVED MANUFACTURER'S SHOP DRAWINGS. PARTICULAR ATTENTION SHALL BE DIRECTED TO FIXTURES OR EQUIPMENT FURNISHED UNDER OTHER DIVISIONS.
2. INVERT ELEVATIONS SHOWN SHALL BE VERIFIED ON THE JOB BEFORE INSTALLING ANY NEW PIPE.
3. INSTALL TEST-TEES WHEN SANITARY SEWER SYSTEM IS TO BE TESTED IN SECTIONS.
4. PIPING IS SHOWN IN ITS GENERAL LOCATION (UNLESS DIMENSIONED). EXACT LOCATION SHALL BE DETERMINED BY JOB CONDITIONS. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF HI WORK WITH THAT OF OTHER TRADES AND ARRANGE PIPING TO CLEAR STRUCTURAL MEMBERS AND DUCTWORK. RISERS FOR FIXTURES, UNLESS OTHERWISE NOTED, SHALL BE CONCEALED IN WALLS OR PIPE CHASES.
5. MINIMUM SIZE WATER LINE FOR ANY TWO FIXTURES SHALL BE ¾". REFER TO PLUMBING FIXTURE SCHEDULE FOR INDIVIDUAL FIXTURE RUNOUT SIZES.
6. INSTALL UNDERGROUND WATER LINE(S) ABOVE SOIL AND WASTE LINE(S). WATER LINE SAME TRENCH WITH SOIL OR WASTE LINE SHALL BE INSTALLED ON AN UNDISTURBED EARTH LEDGE WITH BOTTOM OF WATER LINE 12" (MIN) ABOVE TOP OF SOIL OR WASTE LINE. IPC CODE REQUIREMENTS SHALL GOVERN FINAL INSTALLATION.
7. INSTALL ALL EXTERIOR WALL HYDRANTS 18" ABOVE FINISH GRADE (A.F.F.) EXCEPT AS NOTED OTHERWISE.
8. PROVIDE A MINIMUM COVER OF 30" FOR ALL LINES EXCEPT AS NOTED OTHERWISE ON CONTRACT DRAWINGS.
9. PROVIDE SLEEVES PER IPC REQUIREMENTS FOR PIPE PASSING THRU FLOOR, MASONRY WALLS AND FIRE OR SMOKE PARTITIONS. PACK ANNULAR SPACE BETWEEN PIPE WITH MATERIAL APPROVED IN U.L. BUILDING DIRECTORY OR AS DIRECTED BY IPC OR IBC REQUIREMENTS.
10. REFER TO ARCHITECTURAL FINISH SCHEDULE AND ELEVATIONS FOR DETAILS OF FLOOR WHERE FLOOR DRAINS ARE TO BE INSTALLED.
11. IT SHALL BE CONTRACTORS RESPONSIBILITY TO COORDINATE THIS INSTALLATION WITH THAT OF OTHER TRADES TO ENSURE COMPLETE INSTALLATION. CONTRACTOR SHALL VERIFY ROUTING OF ALL PIPING AND ADJUST AS NECESSARY TO AVOID CONFLICTS WITH THAT OF OTHER TRADES AND OR STRUCTURAL MEMBERS.

PLUMBING LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
— — — —	VENT	VTR	VENT THRU ROOF
———	WASTE OR SANITARY SEWER		BALL VALVE
—— – ——	COLD WATER		CHECK VALVE
—— – – ——	HOT WATER		SHUTOFF VALVE
TYP.	TYPICAL		SHOCK ABSORBER
U.O.N.	UNLESS OTHERWISE NOTED	CO	CLEANOUT
		FD	FLOOR DRAIN

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PLUMBING NOTES, LEGEND, & SCHEDULES

Designed By:	Drawn By:	Checked By:
NES	NES	CAB
Issue Date: 09/30/2024	Project No: 080083	Scale: AS SHOWN

Drawing No:
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