PERROW PARK

JASPER, GA

100% BID SET

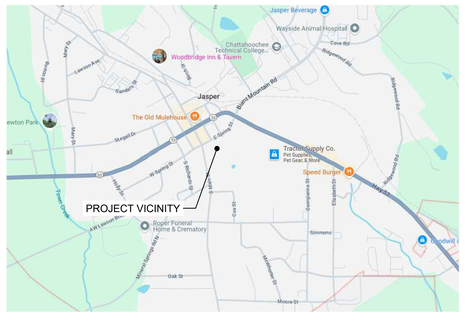
GOODWYN MILLS CAWOOD, LLC | LANDSCAPE ARCHITECTURE, CIVIL, AND ELECTRICAL ENGINEERING

PROJECT DESCRIPTION

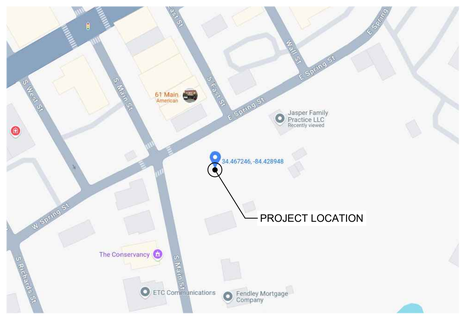
A NEW PARK AND AMPHITHEATER PROJECT LOCATED IN JASPER, GEORGIA.

THE PLAN FEATURES NEW SIDEWALKS, PLANTING, RESTROOM BUILDING, CHANGING FACILITY, STAGE/PAVILION, AMPHITHEATER LAWN, AND PARKING TO ACCOMMODATE USERS OF THE NEW AMENITIES.

VICINITY MAP



LOCATION MAP



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NOTE: PLAN IS ILLUSTRATIVE TO SHOW DESIGN INTENT; NOT FOR CONSTRUCTION.

GMC

6120 Powers Ferry Road NW, Suite 500
Atlanta, GA 30339
T 770.952.2481
GMCNETWORK.COM

ISSUE	DATE
BID SET	2025.05.22

DRAWN BY: NLH
CHECKED BY: MM

PERROW PARK
JASPER, GA

LATL240013

TITLE SHEET

T1.01

PROJECT NOTES

1. THIS PROJECT IS BASED ON A LUMP SUM CONTRACT. ALL WORK DESCRIBED, SHOWN, REFERENCED, OR OTHERWISE INDICATED IN OR ON THE DRAWINGS, PROPOSAL, ADVERTISEMENT AND SPECIFICATIONS ARE TO BE COMPLETED IN-PLACE AND SERVICEABLE ACCORDING TO THE PLANS, INSTRUCTIONS, SPECIFICATIONS, LINES AND GRADES INDICATED ON THE PLANS AND ALL APPLICABLE STATE, FEDERAL, AND MUNICIPAL CODES AND STANDARDS. INDIVIDUAL ITEMS OF WORK THAT ARE NECESSARY TO COMPLETE THE PROJECT TO THE LINES AND GRADES, WHETHER SHOWN OR DESCRIBED IN THE PLANS AND SPECIFICATIONS, ARE TO BE CONSIDERED INCIDENTAL AND ARE THE RESPONSIBILITY OF THE CONTRACTOR.

2. THESE PLANS HAVE NOT BEEN APPROVED BY ALL OF THE REGULATORY AGENCIES AT THIS TIME. THE CONTRACTOR SHALL ANTICIPATE REVISIONS AND/OR DELAYS ASSOCIATED WITH OBTAINING PLAN APPROVAL. THE CONTRACTOR SHALL NOT RECEIVE ADDITIONAL COMPENSATION FOR SAID DELAYS.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ASSURING ALL TRENCH EXCAVATIONS FOR THIS PROJECT ARE IN ACCORDANCE WITH OSHA REGULATIONS.

4. CONTRACTOR SHALL COORDINATE WITH THE OWNER THE AREAS TO BE USED FOR LAYDOWN AND TRAILERS.

5. CONTRACTOR SHALL RESTORE ALL THE AREAS USED FOR LAYDOWN AND TRAILER TO THEIR ORIGINAL CONDITION.

6. ALL CONCRETE TO BE REMOVED SHALL BE DONE TO THE NEAREST JOINT.

DEMOLITION NOTES

1. ALL TREES, SHRUBS AND LANDSCAPE MATERIAL TO BE REMOVED SHALL BE DISPOSED OF OFFSITE IN A LEGAL MANNER. TREES TO BE REMOVED ARE NOT INDICATED IN THE CIVIL PLANS. THE CONTRACTOR SHALL REMOVE EXISTING TREES AS NECESSARY TO CONSTRUCT THE IMPROVEMENT SHOWN IN THE PLANS WITHOUT ADDITIONAL COST.

2. THE CONTRACTOR IS RESPONSIBLE FOR HAVING ALL EXISTING UTILITIES LOCATED PRIOR TO CONSTRUCTION. ALL EXISTING UTILITIES TO BE UNCOVERED AND VERIFIED AS TO SIZE, LOCATION, ELEVATION AND CONDITION PRIOR TO COMMENCEMENT OF CONSTRUCTION. ALL COST ASSOCIATED WITH HAVING THE UTILITIES MARKED AND UNCOVERED ARE THE RESPONSIBILITY OF THE CONTRACTOR, REGARDLESS OF THE UTILITIES BEING SHOWN IN THE PLANS.

3. THE CONTRACTOR SHALL DISPOSE OF ALL DEMOLITION DEBRIS IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

4. THIS PLAN IS NOT INTENDED TO SHOW EACH AND EVERY ITEM TO BE REMOVED OR DEMOLISHED BY THE CONTRACTOR. THERE ARE OTHER ITEMS NOT SHOWN THAT THE CONTRACTOR MUST REMOVE AND/OR REPLACE TO CONSTRUCT THE IMPROVEMENTS SHOWN IN THESE PLANS. THE CONTRACTOR SHALL THOROUGHLY INVESTIGATE THE PLANS AND INVESTIGATE THE SITE PRIOR TO SUBMITTING A BID. HE/SHE SHALL INCLUDE IN HIS/HER BID WHATEVER MEANS HE/SHE FEELS IT WILL TAKE TO CONSTRUCT THE IMPROVEMENTS. THE CONTRACTOR SHALL NOT RECEIVE ADDITIONAL COMPENSATION FOR REMOVING ITEMS NOT NOTED AS SUCH ON THE THIS PLAN.

5. THE CONTRACTOR SHALL SAW CUT THE EXISTING ASPHALT AND/OR CONCRETE IN THE LOCATIONS WERE THE ASPHALT/CONCRETE IS TO BE REMOVED.

6. THE CONTRACTOR SHALL BE REQUIRED TO GO BACK AND SAW CUT A 5' STRIP OF ASPHALT TO CREATE A "CLEAN" EDGE, IF THE EXISTING ASPHALT IS DAMAGED IN REMOVING THE CURB AND GUTTER. THE COST ASSOCIATED WITH THIS REPARATION SHALL BE AT THE CONTRACTOR EXPENSES.

7. THE CONTRACTOR SHALL REMOVE THE CONCRETE BACK TO A CLEAN CUT AND UNIFORM CONSTRUCTION JOINT TO MINIMIZE THE "PATCH" LOOK IN ALL SIDEWALK AND CURB AND GUTTER TO BE REMOVED.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL COST ASSOCIATED WITH THE REMOVAL/RELOCATION OF THE EXISTING UTILITIES REQUIRED FOR THIS PROJECT.

9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SATISFY HIMSELF OF THE ACCURACY OF THIS INFORMATION PRIOR TO COMMENCING CONSTRUCTION.

10. THE CONTRACTOR IS RESPONSIBLE FOR CAPPING ALL LATERALS FOUND DURING CONSTRUCTION AT THE MAIN PER CITY OF JASPER STANDARDS.

GRADING NOTES

1. THE CONTRACTOR SHALL MAKE SURE THAT THE CROSS SLOPE OF THE NEW SIDEWALKS DO NOT EXCEED 2.00%. IF THE CROSS SLOPE IS CONSTRUCTED AT A SLOPE STEEPER THAN 2.00% THEN HE/SHE SHALL BE REQUIRED TO REMOVE AND REPLACE THE SIDEWALK AT HIS/HER EXPENSE.

2. THE CONTRACTOR SHALL GRADE THE SITE IN ACCORDANCE WITH THE PLANS, SPECIFICATIONS AND GEOTECHNICAL REPORT PREPARED FOR THIS PROJECT.

3. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE LOCATION AND CONFIGURATION OF DOORS, WALKS, ETC. WITH THE ARCHITECTURAL PLANS.

4. ALL DEMOLITION DEBRIS AND EXCESS MATERIAL GENERATED FROM GRADING OPERATIONS TO BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF OFF-SITE AT THE CONTRACTOR'S EXPENSE.

5. ALL GRADING OPERATIONS TO BE MONITORED BY A QUALIFIED GEOTECHNICAL CONSULTANT AS CHOSEN AND PAID FOR BY THE OWNER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE THE GEOTECHNICAL CONSULTANT ONSITE AT ALL TIMES DURING GRADING OPERATIONS.

6. THE CONTRACTOR SHALL INSTALL SPILL OUT CURB & GUTTER WHERE REQUIRED BY THE GRADES.

7. ALL WORK REQUIRED TO COMPACT, MOISTEN, DRY, CONDITION, MODIFY, OR IMPROVE ANY PORTION OF THE SUBGRADE, AND/OR BUILDING PADS, AS DIRECTED BY THE PLANS AND SPECIFICATIONS OR THE ENGINEER, IS PART OF THE LUMP SUM BID.

8. ALL WORK ASSOCIATED WITH TOPSOIL STRIPPING, INCLUDING, BUT NOT LIMITED TO: STRIPPING TO SPREAD, STRIPPING TO STOCKPILE, SPREADING FROM STOCKPILE, TOPSOIL HAUL-OFF, SEEDBED PREPARATION, ETC., AS DIRECTED BY THE PLANS AND SPECIFICATIONS OR THE ENGINEER IS PART OF THE LUMP SUM BID.

10. IF THE PAVEMENT, STONE OR SLAB IS NOT CONSTRUCTED IMMEDIATELY AFTER THE INITIAL SUBGRADE PREPARATION, THE CONTRACTOR SHALL BE REQUIRED TO RESTORE THE SUBGRADE PRIOR TO THE PLACEMENT OF THE PAVEMENT, STONE OR SLAB. THE COST OF THE SUBGRADE RESTORATION SHALL BE INCLUDED IN THE CONTRACTOR'S BID.

12. ALL SPOT ELEVATIONS ALONG CURB LINES ARE EDGE OF PAVEMENT ELEVATIONS UNLESS STATED OTHERWISE.

13. THE CONTRACTOR SHALL CONSTRUCT THE SLOPES WITH THE PROPER STABILIZATION AS SHOWN IN THE DETAIL SHEETS.

14. FILL MATERIAL USED ON-SITE SHALL BE CLEAN, NON-SATURATED, NON-ORGANIC SOIL AS APPROVED BY THE GEOTECHNICAL CONSULTANT.

15. BURNING WILL NOT BE ALLOWED ON-SITE. DEBRIS SHALL BE HAULED OFFSITE AND DISPOSED OF IN A LEGAL MANNER.

16. THE SUBGRADE FOR THE BUILDING AREA SHALL BE 8-INCHES BELOW THE FINISH FLOOR ELEVATIONS.

UTILITY NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ALL PERMITS FOR THIS PROJECT.

2. THE OWNER HAS NOT OBTAINED THE NPDES PERMIT AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO HAVE THE PERMIT IN ITS NAME. THIS COST SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE PERMIT, WHICH INCLUDES BUT NOT LIMITED TO TRANSFER FEE, INSPECTIONS, TERMINATION, VIOLATIONS, ETC.

3. SITE SECURITY WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR WILL BE RESPONSIBLE FOR INSTALLING A TEMPORARY CONSTRUCTION FENCE. SAID FENCE NEEDS TO BE COORDINATED WITH THE OWNER.

4. ALL FUEL STORAGE TANKS USED ON THE SITE BY THE CONTRACTOR MUST MEET ALL LOCAL, STATE AND FEDERAL CODES AND REGULATIONS.

5. THE CONTRACTOR WILL BE RESPONSIBLE FOR TEMPORARY DIVERSION OF RUNOFF WATER, AS REQUIRED TO FACILITATE CONSTRUCTION OR AS DIRECTED ON-SITE BY THE ENGINEER. THIS TEMPORARY DRAINAGE OF RUNOFF IS CONSIDERED INCIDENTAL TO THE BID.

6. ALL WATER AND SEWER LINE WORK TO BE DONE IN ACCORDANCE WITH THE CITY OF JASPER UTILITIES STANDARDS AND SPECIFICATIONS.

7. ELECTRONIC DATA THAT MAY BE GIVEN TO THE CONTRACTOR EITHER AS AN AID IN THE PREPARATION OF HIS BID OR IN THE CONSTRUCTION OF THE IMPROVEMENTS WILL BE DONE SO STRICTLY AS A COURTESY TO THE CONTRACTOR. THE ENGINEER DOES NOT WARRANT THE ACCURACY OF THE ELECTRONIC INFORMATION SO TRANSFERRED. IN ALL CASES, THE PRINTED PLANS AS ISSUED BY THE ENGINEER SHALL GOVERN. A LETTER RELEASING THE ENGINEER FROM LIABILITY WILL BE REQUIRED OF THE CONTRACTOR PRIOR TO THE RELEASE OF SAID INFORMATION.

8. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE APPLICABLE GOVERNMENTAL AGENCIES AND DEPARTMENTS OF THE BEGINNING OF CONSTRUCTION.

9. THE CONTRACTOR IS RESPONSIBLE FOR ALL COST ASSOCIATED WITH REMOVING AND/OR RELOCATING EXISTING UTILITIES AND STRUCTURES TO CONSTRUCT THE IMPROVEMENTS SHOWN IN THESE PLANS. THE CONTRACTOR SHALL NOT RECEIVE ADDITIONAL COMPENSATION FOR REMOVING AND/OR RELOCATING ANY EXISTING ITEMS.

10. NO DEVIATION FROM THE PLANS IS ALLOWED WITHOUT PRIOR APPROVAL FROM THE ENGINEER, SAID APPROVAL SHALL BE GIVEN IN WRITING.

11. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE VARIOUS UTILITY COMPANIES ON THE PLACEMENT OF THEIR SERVICES.

12. IT IS THE CONTRACTOR RESPONSIBILITY TO COORDINATE THE WORK OF OTHER TRADES PRIOR TO INSTALLING THE IMPROVEMENTS SHOWN IN THESE PLANS.

13. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN FINAL APPROVAL OF WORK DONE ON OR ADJACENT TO EXISTING STREETS/ROADS AND RIGHT OF WAY. WRITTEN APPROVAL FROM THE APPLICABLE AGENCY IS REQUIRED PRIOR TO RELEASE OF THE CONTRACTOR'S RETAINAGE.

14. THE CONTRACTOR MUST ADJUST ALL VALVE BOXES COVERS, METERS, MANHOLE RIMS, AND OTHER WATER, STORM, POWER, TELECOMMUNICATIONS AND GAS APPURTENANCES TO FINAL GRADE. THE COST OF THESE ADJUSTMENTS SHALL BE INCLUDED IN THE BID.

15. THE PIPE LABELED RCP SHALL BE REINFORCED CONCRETE PIPE CLASS 3, UNLESS OTHERWISE NOTED

16. ALL RCP SHALL BE INSTALLED PER THE TYPICAL TRENCH DETAIL FOR REINFORCED CONCRETE PIPE ON THE DETAILS.

17. ALL STORM SEWER SHALL BE LAID FROM THE LOWEST POINT FOLLOWING THE RISING GRADE.

18. BACKFILL AND COMPACTION OF ALL TRENCHES WILL CONFORM TO THE RECOMMENDATION OF THE GEOTECHNICAL ENGINEER. TESTING OF THE FILL AND COMPACTION MUST BE PERFORMED BY THE TESTING LABORATORY ACCORDING TO THE SPECIFICATIONS WITH THE TEST REPORTS FORWARDED TO THE ENGINEER. ANY BACKFILL FAILING TO MEET COMPACTION REQUIREMENTS WILL BE REMOVED AND REWORKED UNTIL COMPACTION IS ACHIEVED, THIS WORK SHALL BE DONE AT THE CONTRACTOR'S EXPENSE.

19. WATER LINES OUTSIDE OF PAVED AREAS AND UNDER PAVED AREAS SHALL HAVE A MINIMUM COVER OF FOUR (4) FEET.

20. ALL BENDS AND FITTINGS SHALL BE MECHANICAL JOINT RESTRAINTS.

21. IF THE WATER OR SANITARY SEWER LINE CROSSES ANY UTILITY WITH LESS THAN 2 FEET OF VERTICAL SEPARATION BETWEEN THE WATER AND SANITARY SEWER, THE TRENCH SHALL BE BACKFILLED WITH CRUSHED STONE AND THE PIPE MATERIAL SHALL BE DUCTILE IRON.

22. ANY WORK ON PUBLIC RIGHT OF WAY WILL REQUIRE A TRAFFIC CONTROL PLAN IN ACCORDANCE WITH THE M.U.T.C.D. PREPARATION AND SUBMITTAL OF SAID PLAN TO THE APPROPRIATE AUTHORITY IS THE RESPONSIBILITY OF THE CONTRACTOR.
22.1. THE CONTRACTOR SHALL PREPARE AND SUBMIT TO THE ENGINEER AND OWNER A TRAFFIC CONTROL PLAN IN ACCORDANCE WITH THE M.U.T.C.D. FOR APPROVAL, THE TRAFFIC CONTROL PLAN SHALL INCLUDE SIGNAGE, BARRICADES, PEDESTRIAN DETOURS, ETC.

23. THE COST OF ALL WORK ASSOCIATED WITH PROVIDING A COMPLETE PRODUCT AS SHOWN IN THE PLANS IS THE RESPONSIBILITY OF THE CONTRACTOR UNLESS STATED OTHERWISE.

24. THESE PLANS HAVE NOT BEEN APPROVED BY ALL OF THE REGULATORY AGENCIES AT THIS TIME. THE CONTRACTOR SHALL ANTICIPATE REVISIONS AND/OR DELAYS ASSOCIATED WITH OBTAINING PLAN APPROVAL. THE CONTRACTOR SHALL NOT RECEIVE ADDITIONAL COMPENSATION FOR SAID DELAYS.

25. ALL UTILITY BORES SHALL BE A MINIMUM OF 4 FT DEEP. ANY DAMAGE TO EXISTING STREETS OR DRIVES RESULTING FROM A UTILITY BORE SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

26. THE CONTRACTOR WILL BE RESPONSIBLE FOR REPAIR TO PUBLIC AND PRIVATE ROADS CAUSED BY HIS ACTIVITIES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MEET WITH PRIVATE ENTITIES, STATE, CITY AND COUNTY OFFICIALS TO AGREE UPON AND RECORD THE CONDITIONS OF THE ROADS BEFORE CONSTRUCTION COMMENCES.

27. THE CONTRACTOR SHALL INCLUDE IN HIS BID ALL COSTS ASSOCIATED WITH SHORING/STABILIZING EXISTING UTILITIES DURING CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.

28. ALL STORM PIPE CONNECTIONS TO MANHOLES, INLETS, JUNCTION BOXES, ETC. SHALL BE MADE UTILIZING FLEXIBLE BOOTS. THESE BOOTS SHALL BE KOR-N-SEALL II 206 SERIES AS MANUFACTURED BY TRELLEBORG PIPE SEALS OR PSX DIRECT DRIVE AS MANUFACTURED BY PRESS-SEAL GASKET CORPORATION. THESE BOOTS SHALL BE ATTACHED TO THE PIPE WITH GASKETS AND SEALS, TO PROVIDE A WATER TIGHT CONNECTION BETWEEN THE PIPE AND STRUCTURES. ANY PIPE TO STRUCTURE CONNECTIONS NOT CONSTRUCTED USING FLEXIBLE BOOTS SHALL BE REMOVED AND CORRECTED AT THE CONTRACTOR'S EXPENSE. RIGID CONNECTIONS, OF ANY TYPE, SHALL NOT BE PERMITTED. TYLOX WT+CONNECTOR AS MANUFACTURED BY HAMILTON KENT MAY BE UTILIZED. ALL FLEXIBLE BOOTS/ CAST IN CONNECTORS SHALL MEET ASTM C923. ARCH PIPE SHALL BE CONNECTED TO THE STRUCTURES WITH WS SERIES WATERSTOP AS MANUFACTURED BY PRESS-SEAL GASKET CORPORATION OR PRE-APPROVED EQUIVALENT. THESE RINGS SHALL BE GROUTED IN WITH NON-SHRINKING PATCHING COMPOUND.

29. A DEFLECTION TEST SHALL BE REQUIRED FOR ALL FLEXIBLE STORM SEWER PIPING INSTALLED. THE DEFLECTION TEST SHALL BE PERFORMED TWICE USING A GO-NO-GO MANDREL. THE MANDREL SHALL BE PULLED THROUGH THE PIPE A MINIMUM OF 60 DAYS AFTER THE FINAL PLACEMENT OF BACKFILL. THE DEFLECTION OF THE PIPE SHALL NOT EXCEED 5.0 PERCENT OF THE AVERAGE INSIDE DIAMETER WHEN TESTED WITH A MANDREL SPECIFICALLY DESIGNED FOR THE TYPE AND SIZE OF PIPE INSTALLED. THE FINAL TEST SHALL BE PERFORMED 120 DAYS AFTER THE FINAL PLACEMENT OF BACKFILL IN ACCORDANCE WITH THE AFOREMENTIONED CRITERIA. THE CONTRACTOR SHALL SUBMIT THE TEST RESULTS TO THE ENGINEER WITHIN 14 DAYS OF THE TEST BEING PERFORMED. IF THE PIPE FAILS THE MANDREL TEST, THE PIPE SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE. ALL COST ASSOCIATED WITH THE MANDREL TESTING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL PIPES SHALL BE INSTALLED PER THE PLANS, SPECIFICATIONS, GEOTECHNICAL REPORT AND MANUFACTURERS SPECIFICATIONS. IF CONFLICTS ARISE THE MORE STRINGENT SHALL APPLY.

30. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ASSURING ALL TRENCH EXCAVATIONS FOR THIS PROJECT ARE IN ACCORDANCE WITH OSHA REGULATIONS.

31. THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH PERMITS FOR THIS PROJECT.

32. A HEAVY DUTY GRATE ASSEMBLY VS324-1 MANUFACTURED BY EAST JORDAN, INC SHALL BE INSTALLED AT THE GRATE INLETS (GI) LOCATED IN THE GRASSED AREAS.

33. A HEAVY DUTY GRATE ASSEMBLY 7159 MANUFACTURED BY EAST JORDAN, INC SHALL BE INSTALLED AT GRATE INLETS (GI) LOCATED IN PAVED AREAS.

34. ALL ROOF LEADERS SHALL BE SCHEDULE 40 PVC.

35. THE COST TO RELOCATE ANY CITY OF JASPER AND PICKENS COUNTY UTILITIES FACILITIES DUE TO THIS PROJECT MUST BE PAID BY THE DEVELOPER OR PROPERTY OWNER.

36. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXISTENCE, HORIZONTAL AND VERTICAL LOCATIONS, OF ALL UTILITIES BOTH ABOVE AND BELOW GROUND AND OF NOTIFYING THE ENGINEER OF ANY VARIANCES FROM THE LOCATIONS SHOWN ON THE PLANS, BEFORE EXCAVATION BEGINS.

37. THE PLANS SHOW NUMEROUS UNDERGROUND UTILITIES WITHIN THE AREA OF THE PROPOSED IMPROVEMENTS. THERE ARE ELECTRICAL LINES, GAS LINES, SANITARY LINES, FIBER OPTIC, TELECOMMUNICATION LINES AND WATER LINES THAT WILL HAVE TO BE REROUTED/RELOCATED OR REMOVED TO CONSTRUCT THE IMPROVEMENTS SHOWN IN THE PLANS. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL COST ASSOCIATED WITH REROUTING, RELOCATING, SHORING, ETC. OF THIS LINES TO INSTRUCT THE IMPROVEMENTS SHOWN IN THE PLANS. THE CONTRACTOR WILL BE RESPONSIBLE FOR CONSTRUCTING THE IMPROVEMENTS SHOWN IN THE PLANS, WHILE MAINTAINING THE SERVICE OF THESE UNDERGROUND UTILITIES TO THE BUILDINGS WITHIN THE CAMPUS.

41. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE POWER COMPANY ON THE SHORING/BRACING OF ANY POWER POLES AND/OR GUYS WIRES DURING THE INSTALLATION OF THE IMPROVEMENTS SHOWN IN THE DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COST ASSOCIATED WITH THE SHORING/BRACING OF THE STRUCTURES.

42. ALL RCP SHALL BE INSTALLED PER THE TYPICAL TRENCH DETAIL FOR REINFORCED CONCRETE PIPE ON DETAIL SHEET.

43. ALL ADS HP-STORM AND SCHEDULE 40 PVC PIPE SHALL BE INSTALLED PER THE TYPICAL TRENCH DETAIL FOR ADS PIPE AND SCHEDULE 40 PVC.

44. CONTRACTOR SHALL CONTACT THE CITY OF JASPER PRIOR TO ANY FIRE LINE WORK COMMENCEMENT ON PROJECT.

45. WATER MAINS CROSSING OVER OR UNDER NON-POTABLE LINES SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18-INCHES BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF THE NON-POTABLE LINE. IF SITE CONDITIONS DO NOT ALLOW SUCH, THE CROSSING SHALL BE ARRANGED SO THAT THE NON-POTABLE LINE JOINTS SHALL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE WATER MAIN JOINTS. WHERE A WATER MAIN CROSSES UNDER A NON-POTABLE LINE, ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE NON-POTABLE LINE TO MAINTAIN LINE AND GRADE.

46. ALL SANITARY LINES IN PAVED SURFACES SHALL BE DUCTILE IRON 51 RATED.

CITY OF JASPER WATER AS SEWER SPECIFICATIONS:

SANITARY SEWER:

1. MATERIAL: THE FOLLOWING ARE MINIMUM SPECIFICATIONS FOR MATERIALS USED IN SEWER CONSTRUCTION:
1.1. PIPE: PIPES SHALL BE CONSTRUCTED OF THE FOLLOWING:
1.1.1. POLYVINYL CHLORIDE: ASTM 3034 CLASSIFICATIONS SDR 35.
1.1.2. DUCTILE IRON: PUSH-ON JOINT CLASS 350.

2. MANHOLES: MANHOLES SHALL BE PRECAST AS PER ASTM C478 WITH THE FOLLOWING SPECIFICATIONS:
2.1. FOUR-FOOT INSIDE DIAMETER
2.2. FIVE-INCH WALL THICKNESS
2.3. PLASTIC STEPS WITH THREE-EIGHTHS-INCH REBAR
2.4. CAST-IRON MANHOLE FRAME AND COVER
2.4.1. INSIDE ROADWAY 480#
2.4.2. OUTSIDE ROADWAYS 360#

3. CONSTRUCTION: SEWERS TO BE LAID IN GRADED DITCH ON GOOD MATERIAL (ROCK OR OTHER UNSATISFACTORY MATERIAL SHALL BE REMOVED AND GOOD MATERIAL BROUGHT IN AS REQUIRED). PIPE SHALL BE BEDDED IN SELECT MATERIAL (GOOD BANK MATERIAL, CLAY OR CRUSHED STONE) WELL COMPACTED. BACKFILL SHOULD CONTINUE WITH THE SAME MATERIAL, USING HAND TOOLS, UP TO SIX INCHES ABOVE THE TOP OF THE PIPE. THE BALANCE OF THE BACKFILL MAY BE DITCH MATERIAL, PROVIDING IT DOES NOT CONTAIN ANY LARGE ROCK PARTICLES.

4. DEFLECTION TESTING FOR PVC PIPE: THE MAXIMUM DEFLECTION IN THE INSTALLED PVC PIPELINE SHALL NOT EXCEED FIVE PERCENT OF THE PIPES ORIGINAL INTERNAL DIAMETER. DEFLECTION TESTING WILL BE REQUIRED USING EITHER A DEFLECTOMETER OR A "GO-NO-GO" MANDREL. PORTIONS OF THE PROJECT SHALL BE RANDOMLY SELECTED TO BE DEFLECTION TESTED. SUCH PORTIONS SHALL CONSIST OF NOT LESS THAN FIVE PERCENT OF THE TOTAL REACHES (REACH BEING LENGTH OF PIPE BETWEEN TWO MANHOLES) IN THE PROJECT (EXCLUDING HOUSE LEADS). WHERE DEFLECTION IS FOUND TO BE IN EXCESS OF FIVE PERCENT OF THE ORIGINAL PIPE DIAMETER, THE LINE SHALL BE EXCAVATED TO THE POINT OF EXCESS DEFLECTION AND CAREFULLY COMPACTED AND AROUND THE POINT WHERE EXCESS DEFLECTION WAS FOUND. THE LINE SHALL THEN BE RETESTED FOR DEFLECTION. HOWEVER, SHOULD AFTER THE INITIAL TESTING THE DEFLECTED PIPE FAIL TO RETURN TO THE ORIGINAL SIZE (INSIDE DIAMETER) THE LINE SHALL BE REPLACED. IN THE EVENT THAT DEFLECTION OCCURS BEYOND THE FIVE PERCENT LIMIT IN ANY SECTION OF FIVE PERCENT OR MORE OF THE REACHES TESTED, THE ENTIRE SYSTEM SHALL BE TESTED.

5. TESTING: ON COMPLETION OF EACH BLOCK OR SECTION OF SEWER, SEWER SHALL BE CLEANED, TESTED AND INSPECTED. ALL REPAIRS SHOWN NECESSARY BY THE INSPECTION SHALL BE MADE. BROKEN OR CRACKED PIPE SHALL BE REPLACED; DEFECTIVE JOINTS, IF ANY, REPLACED; ALL DEPOSITS REMOVED, PAVEMENT REPLACED; AND AC SEWER LEFT TRUE TO LINE AND GRADE, ENTIRELY CLEAN, FREE FROM LUMPS OR PRODUCING JOINTING MATERIALS, ETC., AND READY FOR USE. EACH SECTION OF SEWER BETWEEN MANHOLES, SHALL SHOW, UPON EXAMINATION FROM EITHER END, A REASONABLY FULL CIRCLE OF LIGHT. THE ALLOWABLE LIMIT OF GROUNDWATER INFILTRATION FOR ANY ONE OR MORE SECTIONS OF SEWER WITH ANY TYPE JOINT ALLOWABLE UNDER THESE SPECIFICATIONS (ALL SIZES), SHALL NOT EXCEED 100 GALLONS PER 24 HOURS PER MILE OF SEWER LINE PER INCH OF DIAMETER, ANY LINE THAT DOES NOT MEET THIS SPECIFICATION WILL BE REJECTED AND MUST BE REPAIRED. NO INFILTRATION TESTS WILL BE MADE UNTIL NORMAL INFILTRATION CONDITIONS ARE ESTABLISHED. TESTS SHALL BE MADE BEFORE EXISTING SEWERS ARE CONNECTED AND MEASURED BY MEANS OF A V-NOTCH WEIR. THESE TESTS WILL BE CONDUCTED OVER A PERIOD OF TIME SUFFICIENT TO DETERMINE THE CORRECT RATE OF GROUNDWATER INFILTRATION. WHEN INFILTRATION OCCURS IN EXCESS OF THE SPECIFIED AMOUNT AS HEREINABOVE GIVEN, DEFECTIVE PIPE OR JOINTS SHALL BE LOCATED AND REPAIRED. IF THE DEFECTIVE PORTIONS CANNOT BE LOCATED AS MUCH OF THE ORIGINAL WORK AS NECESSARY TO OBTAIN A SEWER WITHIN THE ALLOWABLE INFILTRATION LIMITS UPON RETESTING SHALL BE REMOVED AND RECONSTRUCTED.

5.1. EXFILTRATION TEST: WHEN LINES ARE ABOVE THE GROUNDWATER TABLE, AN EXFILTRATION TEST MAY BE REQUIRED. FOR THIS TEST, THE LINE SHALL BE FILLED WITH WATER UNDER A MINIMUM HEAD OF TWO FEET ABOVE THE TOP OF THE OUTLET PIPE OF THE UPPER MANHOLE AND THE LEVEL MAINTAINED THROUGH THE TEST. THE RATE OF EXFILTRATION SHALL NOT EXCEED THE ALLOWABLE INFILTRATION RATE FOR INFILTRATION, EXCEPT THAT AN ALLOWANCE OF AN ADDITIONAL ONE GALLONAGE SHALL BE PERMITTED FOR EACH TWO FEET OF HEAD OVER THE BASIC TWO FEET MINIMUM HEAD. WHEN THE LEAKAGE EXCEEDS THE SPECIFIED AMOUNT, SATISFACTORY CORRECTIONS SHALL BE MADE.

5.2. LOW-PRESSURE AIR TEST: WHERE SEWER GRADES ARE SUCH THAT PRECLUDE PERFORMANCE OF THE EX-FILTRATION TEST, A LOW-PRESSURE AIR TEST SHALL BE CONDUCTED ON EACH SECTION OF SEWER AFTER COMPLETION AND BEFORE ACCEPTANCE, PRIOR TO AIR TESTING, THE SECTION OF SEWER BETWEEN MANHOLES SHALL BE THOROUGHLY CLEANED AND WETTED. IMMEDIATELY AFTER CLEANING OR WHILE THE PIPE IS WATER SOAKED THE SEWER SHALL BE TESTED WITH LOW-PRESSURE AIR. SEWERS MAY BE TESTED IN LENGTHS BETWEEN MANHOLES OR IN SHORT SECTIONS (25 FEET OR LESS) USING AIR-LOCK BALLS PULLED THROUGH THE LINE FROM MANHOLE TO MANHOLE. AIR SHALL BE SLOWLY SUPPLIED TO THE PLUGGED SEWER SECTION UNTIL INTERNAL AIR PRESSURE REACHES APPROXIMATELY 4.0 PSI. AFTER THIS PRESSURE IS REACHED AND THE PRESSURE ALLOWED TO STABILIZE (APPROXIMATELY TWO TO FIVE MINUTES), THE PRESSURE MAY BE REDUCED TO 3.5 PSI BEFORE STARTING THE TESTS. IF A 1.0 PSI DROP DOES NOT OCCUR WITHIN THE TEST TIME, THEN THE LINE HAS PASSED THE TEST. IF THE PRESSURE DROPS MORE THAN 1.0 PSI DURING THE TEST TIME THE LINE IS PRESUMED TO HAVE FAILED THE TEST, AND IT WILL BE REQUIRED TO LOCATE THE FAILURE, MAKE NECESSARY REPAIRS AND RETEST THE LINE. MINIMUM TEST TIME FOR VARIOUS PIPE SIZES, IN ACCORDANCE WITH ASTM C828, AS AMENDED TO DATE, IS AS FOLLOWS:

NOMINAL PIPE SIZE (INCHES)	T(TIME) MIN/100 (FEET)
4	0.3
6	0.7
8	1.2
10	1.5
12	1.8
15	2.1
18	2.4
24	3.6

REQUIRED TEST EQUIPMENT INCLUDES: AIR-LOCK BALLS, AIR HOSE, AIR SOURCE, TIMER, ROTOMETER AS APPLICABLE, CUTOFF VALVES, PRESSURE REDUCING VALVE, 0-15 PRESSURE GAUGE; 0-5 PRESSURE GAUGE WITH GRADATIONS OF 0.1 PSI ACCURACY OF PLUS OR EQUAL TO TWO PERCENT. KEEP RECORDS OF ALL TESTS MADE. COPY OF SUCH RECORDS WILL BE GIVEN TO THE OWNER. SUCH RECORDS SHALL SHOW DATE, LINE NUMBER AND STATIONS, OPERATOR AND SUCH OTHER PERTINENT INFORMATION AS REQUIRED BY THE OWNER. OBSERVE PROPER SAFETY PRECAUTIONS IN PERFORMANCE OF THE AIR TESTING. IT IS IMPERATIVE THAT PLUGS BE PROPERLY SECURED AND THAT CARE BE EXERCISED IN THEIR REMOVAL. EVERY PRECAUTION SHALL BE TAKEN TO AVOID THE POSSIBILITY OF OVER PRESSURIZING THE SEWER LINE.

5.3. REPAIRS: ALL VISIBLE LEAKS SHALL BE REPAIRED REGARDLESS OF WHETHER INFILTRATION, EX-FILTRATION OR AIR TEST IS WITHIN ALLOWABLE LIMITS. NO SEWER WILL BE ACCEPTED UNTIL LEAKAGE TESTS DEMONSTRATE COMPLIANCE WITH ONE OF THE ABOVE LEAKAGE TEST METHODS.

WATER

1. PIPE SPECIFICATIONS: THE FOLLOWING ARE MINIMUM SPECIFICATIONS FOR WATER PIPES:
1.1. DUCTILE IRON: CLASS 350 SIZES THREE INCHES AND ABOVE
1.2. POLYVINYL CHLORIDE: A.CLASS 150 (AWWA C900) FOR PRESSURES GREATER THAN 150 PSI
1.3. SDR 21, FOR PRESSURES LESS THAN 150 PSI
1.4. ALL FITTINGS SHALL BE DUCTILE IRON.

2. VALVES: THE FOLLOWING ARE MINIMUM SPECIFICATIONS FOR VALVES:
2.1. GATE VALVES 2½ INCHES AND SMALLER SHALL BE SOLID WEDGE, BRONZE TYPE RATED FOR 175 PSI WORKING PRESSURE
2.2. THREE INCHES AND LARGER AWWA C500 O-RING, WORKING PRESSURE OF 200 PSI
2.3. VALVES SHALL BE CITY STANDARD AS MANUFACTURED BY MUELLER COMPANY OR M & H VALVE AND FITTING COMPANY

3. VALVE BOXES: VALVE BOXES SHALL BE CAST IRON, HEAVY ROADWAY TYPE, TWO PIECE WITH DROP COVERS

4. HYDRANTS: HYDRANTS SHALL BE PER AWWA C-502, HYDRANTS SHALL BE CITY STANDARD AS MANUFACTURED BY

DRAWING FILE: T:\1 Projects\GA\Jasper\LATL240013 - Jasper Perrow Park\00 DWG\01 PLANS\C-002 SURVEY.dwg
PLOTTED: May 21, 2025 - 3:41pm

DRAWING FILE: T:\Southland\documents\24 - GMC\CATL240183 - PERROW PARK - CITY OF JASPER\SURVEY\240183 - 4.dwg
PLOTTED: Oct 01, 2024 - 1:45pm

811 Know what's below. Call before you dig.

GA WEST ZONE
GRID NORTH

Utility Providers

CODE	NAME	FACILITY TYPE	PHONE
AGL1N	ATLANTA GAS LIGHT JASPER - AGL1N	GAS	(470) 264-6682
BSCA	ATT/D - BSCA	TELECOMMUNICATION	(305) 409-3542
CMACHE	COMCAST - CMACHE	TELECOMMUNICATION	(678) 708-7172
ELIJA13	ELIJAY TELEPHONE COMPANY - ELIJA13	TELECOMMUNICATION	(706) 697-5557
GP480	GEORGIA POWER - GP480	ELECTRIC	(404) 506-6539
JAS50	CITY OF JASPER - JAS50	TELECOMMUNICATION	(706) 692-9100
JASSI	CITY OF JASPER - JASSI	SEWER	(706) 692-9100
WINGA	WINDSTREAM - WINGA	TELECOMMUNICATION	(800) 289-9401

⊙ = IRON PIN FOUND	⊲ = DOUBLE WING CATCH BASIN	⋈ = GAS VALVE	Ⓢ = SEWER MANHOLE	⚲ = POWER POLE
⊡ = CONCRETE MON FOUND	⊳ = SINGLE WING CATCH BASIN	GM = GAS METER	⊜ = CLEAN OUT	= GUY WIRE
● = IRON PIN PLACED	⊞ = JUNCTION BOX	⊕ = TELEPHONE MANHOLE	⊠ = WATER VALVE	EM = ELECTRIC METER
⊕ = BENCHMARK	▥ = CURB INLET	EM = ELECTRIC MANHOLE	WM = WATER METER	▭ = TRANSFORMER
◈ = PHOTO REFERENCE	▤ = YARD INLET	▯ = TELEPHONE PEDESTAL	⊘ = FIRE HYDRANT	☼ = LIGHT POLE
⊘ = EXCEPTIONS	◧ = DROP INLET	S = SIGN	⊛ = IRRIGATION CONT. VALVE	⊳ = FLOW ARROW
⊘ = PARKING BOLLARD	▭ = HEADWALL		W = WELL	✉ = MAILBOX
STM = STORM PIPE	OHP = OVERHEAD PWR.	W = WATER LINE	T = COMM. LINE	
SAN = SEWER PIPE	x = FENCE LINE	G = GAS LINE	UGP = UNDERGROUND PWR.	

General Notes

1. THIS SURVEY IS A BOUNDARY SURVEY AND IS NOT INTENDED TO BE RECORDED.
2. THIS PLAT WAS COMPLETED USING NETWORK RTK GPS WITH POSITIONAL ACCURACIES OF +/- 0.07' BASED ON FIELD COLLECTED HORIZONTAL DATA.
3. EQUIPMENT USED: TOPCON 3000W TOTAL STATION, TOPCON HIPER V AND ROVER, WITH SATA COLLECTOR.
4. RIGHTS OF WAY ARE BASED UPON PINS FOUND AND SCALED DIMENSIONS FROM RECORD PLATS.
5. THIS PLAT WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT. THERE MAY EXIST ENCUMBRANCES THEREFORE, THERE MAY EXIST ENCUMBRANCES WHICH AFFECT THE PROPERTY NOT SHOWN HEREON.

Conformity Statement

THIS PLAT IS A BOUNDARY SURVEY OF REAL OR PERSONAL PROPERTY AND DOES NOT SUBDIVIDE OR CREATE A NEW PARCEL(S) OF LAND AND DOES NOT SUBDIVIDE OR CREATE A NEW BOUNDARIES. THE RECORDING INFORMATION OF THE DOCUMENTS, MAPS, PLATS, OR OTHER INSTRUMENTS WHICH WERE USED IN THE PREPARATION OF THIS PLAT IS STATED HEREON. THE FIELD DATA UPON WHICH THIS PLAT IS BASED HAS A CLOSURE PRECISION OF ONE FOOT IN 10,000 FEET. AN ANGULAR ERROR OF NO MORE THAN ONE MINUTE TIMES THE SQUARE ROOT OF THE NUMBER OF ANGLES TURNED HAS BEEN ADJUSTED OUT. THIS PLAT HAS BEEN CALCULATED FOR CLOSURE AND IS FOUND TO BE ACCURATE WITHIN ONE FOOT IN 100,000 FEET. THIS PLAT HAS BEEN PREPARED IN CONFORMITY WITH THE MINIMUM TECHNICAL STANDARDS FOR PROPERTY SURVEYS IN GEORGIA AS SET FORTH IN THE RULES AND REGULATIONS OF THE GEORGIA BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS AND AS SET FORTH IN O.C.G.A. SECTION 15-6-67.

KEVIN CONNEY - GA PLS 3980

GEORGIA REGISTERED No. 3980 PROFESSIONAL 10/01/24 LAND SURVEYOR KEVIN N. CONNEY

LINE TABLE		
LINE	BEARING	LENGTH
L1	N40°19'00"E	201.89
L2	N40°19'00"E	75.00
L3	N40°49'23"E	74.84
L4	N77°56'28"E	30.08
L5	S28°29'17"E	15.55
L6	N11°29'52"W	25.07
L7	S64°56'53"W	50.00
L8	N29°31'14"W	50.00
L9	N10°19'58"W	17.86
L10	N29°47'35"W	19.82
L11	N10°31'35"W	50.08
L12	N29°56'17"W	131.30
L13	S44°53'23"E	17.12
L14	N01°16'49"E	12.27

GRAPHIC SCALE : 1" = 30'
0' 15' 30' 60' 120'

SOUTH MAIN STREET
APPARENT 65 +/- PUBLIC RIGHT-OF-WAY
ASPHALT

EAST SPRING STREET
VARIABLE PUBLIC RIGHT-OF-WAY
REF. PB 22, PG 11

PARCEL 1
2.263 ACRES

PARCEL 2
0.811 ACRES

POB

AREA OF APPARENT PROPERTY ENCROACHMENT (AS DETAILED IN PB 44, PG 59) +/-640 SQ. FT.

N 77°56'52"E 74.98
N 78°08'43"E 99.76
S 03°10'56"W 120.02
S 66°15'08"W 267.24
S 08°19'22"W 63.52
N 11°30'38"W 74.20
S 71°42'40"W 150.00
N 72°45'19"E 149.98
S 72°40'16"W 149.97
S 27°40'08"E 210.80
N 77°18'44"E 82.88
S 28°12'27"E 257.11

L.L. 306
L.L. 307
L.L. 17
12TH DISTRICT
13TH DISTRICT

TOPOGRAPHIC SURVEY

LAND LOT 17, 13th DISTRICT, 2nd SECTION
CITY OF JASPER, PICKENS COUNTY, GA

GMC PROJECT # 240183

C1.0
sheet 001 of 001

ISSUE	DATE
ISSUE	09/26/2024
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SURVEY

C-002

PERROW PARK

JASPER, GA

LATL240013

ISSUE	DATE
BID SET	2025.05.22
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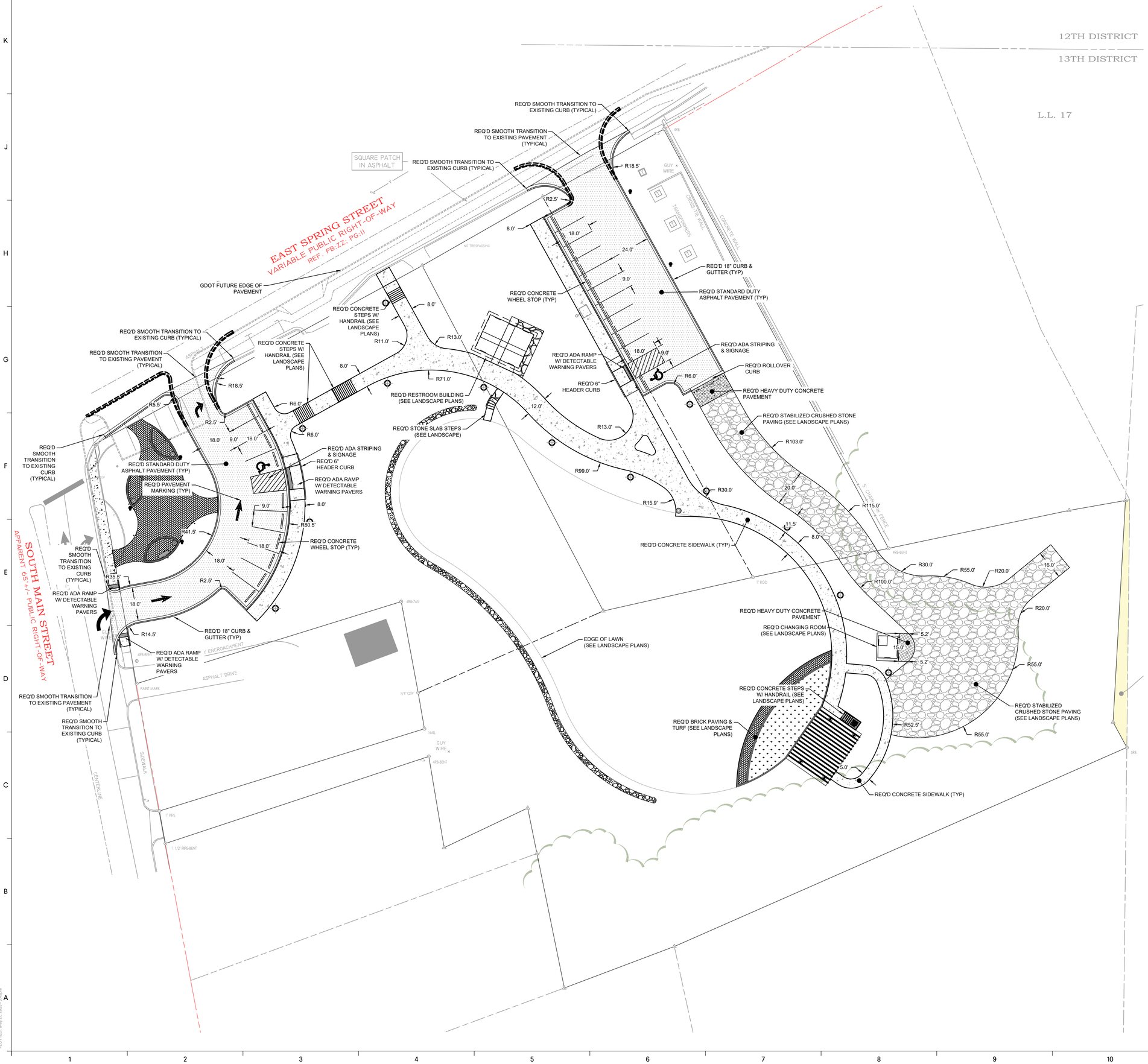
EAST SPRING STREET
VARIABLE PUBLIC RIGHT-OF-WAY
REF. PB:ZZ, PG:11
SOUTH MAIN STREET
APPARENT 65' +/- PUBLIC RIGHT-OF-WAY
12TH DISTRICT
13TH DISTRICT
L.L. 17
PARCEL 1
2.263 ACRES
N/F
CITY OF JASPER
DB:1315; PG:542
PB:N; PG:287 & PB:JJ; PG:109
TAX PARCEL: JAI2 012
PARCEL 2
0.811 ACRES
N/F
CITY OF JASPER
DB:1315; PG:542
TAX PARCEL: JAI2 011
N/F
JIM JONES FAMILY LLC.
DB:1069; PG:836
PB:ZZ;PG:11
TAX PARCEL: JAI2 129
N/F
MICHAEL I. PONICKI
& BOBBIE R. PONICKI
DB:1156; PG:706
PB:T; PG:244
TAX PARCEL: JAI2 013
N/F
SUE ANN ROPER
DB:437; PG:809
TAX PARCEL: JAI2 014
N/F
SHANEKELLY LLC.
DB:1145; PG:986
PB:EE; PG:14
TAX PARCEL: JAI2 015
N/F
EDGE POOL PROPERTIES LLC.
DB:1384; PG:150
PB:UU; PG:155
TAX PARCEL: JAI2 010 001
REQ'D REMOVE EXISTING CURB & GUTTER & WALL SECTION
REQ'D EXISTING ASPHALT PAVEMENT TO BE REMOVED
REQ'D REMOVAL OF EXISTING POLES TO BE COORDINATED WITH GEORGIA POWER
REQ'D EXISTING CONCRETE TO BE REMOVED
REQ'D REMOVAL OF EXISTING POLES TO BE COORDINATED WITH GEORGIA POWER
REQ'D ASPHALT PAVING TO BE REMOVED (EXTENTS PER SITE PLAN)
REQ'D REMOVE EXISTING CURB & GUTTER
REQ'D EXISTING CONCRETE TO BE REMOVED
REQ'D REMOVE EXISTING GRAVEL PAVING
REQ'D LIMITS OF DISTURBANCE
REQ'D REMOVE EXISTING CURB & GUTTER & SIDEWALK SECTION
SQUARE PATCH IN ASPHALT
ASPHALT
CONCRETE
GRAVEL
ASPHALT DRIVE
GUY WIRE
TRANSFORMER
CONCRETE WALL
CONCRETE HEADWALL
CHAIN LINK FENCE
CENTERLINE
SIDEWALK
PAINT MARK
NAIL
1" PIPE
1/2" PIPE-BENT
1/4" CTP
ROD
S72°46'16"W 147.77
N72°45'19"E 149.98
S71°42'40"W 150.00
S37°40'08"E 210.80
N77°18'44"E 82.88
N77°56'52"E 74.98
N78°08'43"E 99.76
S20°51'17"E 267.74
S68°15'08"W 63.52
S69°19'22"W 267.74
N20°51'17"W 267.74
L1 L2 L3 L4 L5 L6 L7 L8 L9 L10 L11 L12 L13 L14 L15 L16 L17 L18 L19 L20 L21 L22 L23 L24 L25 L26 L27 L28 L29 L30 L31 L32 L33 L34 L35 L36 L37 L38 L39 L40



LEGEND

- EX. MAJOR CONTOUR (720)
- EX. MINOR CONTOUR (718)
- EX. WATER LINE
- EX. BURIED CABLE
- EX. GAS LINE
- EX. STORM SEWER LINE
- EX. STORM INLET
- EX. LIGHT POLE
- EX. POWER POLE
- EX. FIRE HYDRANT
- ASPHALT PAVEMENT
- STABILIZED CRUSHED STONE PAVEMENT
- CONCRETE SIDEWALK
- HEAVY DUTY CONCRETE PAVEMENT

Site Data

Parcel IDs	JA12 011, JA12 012
Zoning	C2: General Commercial
Previous/Current Use	Previous Hospital/Vacant Lot
Proposed Use	Amphitheater Park Facility
Minimum Lot Area	None
Minimum Lot Frontage	None
Minimum Lot Width	None
Minimum Setbacks	Front: 20-Feet Side: 10-Feet Rear: 15-Feet
Maximum Density (unit per acre)	None
Maximum Building Height	55-Feet
Maximum Imp. Surface Area Ratio	80 %
Site Area	3.24 ac/141,134 s.f.
Building Area	846 s.f.
Paved Area	27,130 s.f.
Impervious Surface Ratio	20%
Parking Provided	21
Regular Parking	19
ADA Parking Req'd	1
ADA Parking Provided	2

N

0 20' 40'

Scale: 1" = 20'

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PERROW PARK
JASPER, GA

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SITE PLAN

C-100

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PLOTTED: May 21, 2025 - 3:49pm

SOUTH MAIN STREET
APPARENT 65'+/- PUBLIC RIGHT-OF-WAY

EAST SPRING STREET
VARIABLE PUBLIC RIGHT-OF-WAY
REF: PB12Z, PG11

12TH DISTRICT
13TH DISTRICT
L.L. 17

REQD ENHANCED DRY SWALE W/O UNDERDRAIN
BOTTOM WIDTH: 4'
LEFT SIDE SLOPE: 2:1
RIGHT SIDE SLOPE: 3:1

REQD WATER QUALITY POND
TOP OF POND ELEV.: 1451'
BOTTOM OF POND ELEV.: 1445'

REQD CONCRETE SPILLWAY
SPILLWAY ELEV.: 1450'
SPILLWAY DIMENSIONS: 30' WIDE X 10' LONG

Scale: 1" = 20'
0 20' 40'
N

LEGEND

- EX. MAJOR CONTOUR
- EX. MINOR CONTOUR
- EX. WATER LINE
- EX. BURIED CABLE
- EX. GAS LINE
- EX. STORM SEWER LINE
- EX. STORM INLET
- EX. LIGHT POLE
- EX. POWER POLE
- EX. FIRE HYDRANT
- REQ'D STORM SEWER LINE
- REQ'D STORM JUNCTION BOX
- REQ'D HEADWALL
- REQ'D OUTLET STRUCTURE
- REQ'D GRATE INLET
- REQ'D SINGLE WING STORM INLET
- REQ'D DOUBLE WING STORM INLET
- REQ'D REINFORCED CONCRETE PIPE
- REQ'D TOP OF WALL ELEVATION SHOT
- REQ'D MAJOR CONTOUR
- REQ'D MINOR CONTOUR

GRADING PLAN

C-200

PERROW PARK

JASPER, GA

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UTILITY PLAN

C-300

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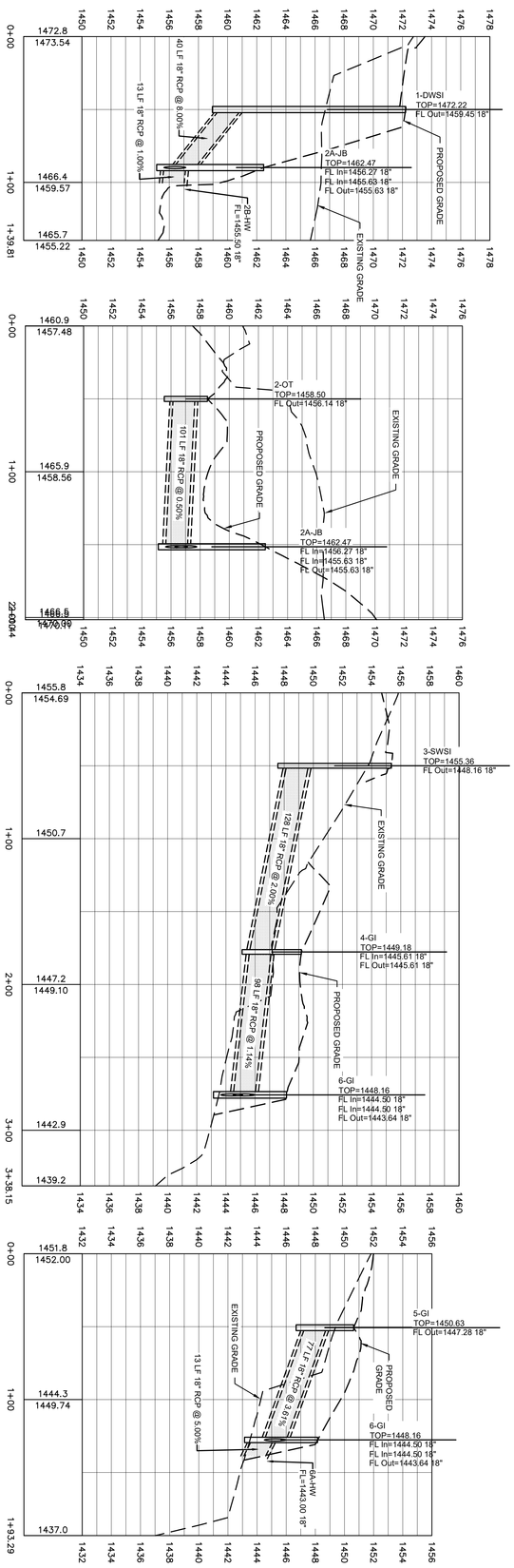
1-DWSI TO 2B-HW

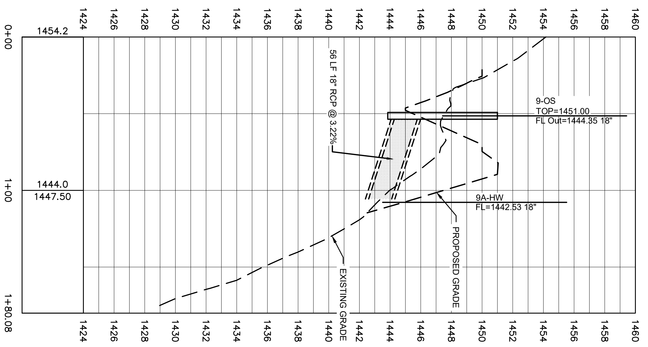


2-OT TO 2A-JB

3-SWSI TO 6A-HW

5-GI TO 6A-HW

9-OS TO 9A-HW



VERTICAL SCALE 1"=4'
HORIZONTAL SCALE: 1"=40'

STORM SEWER PROFILES

C-301

PERROW PARK

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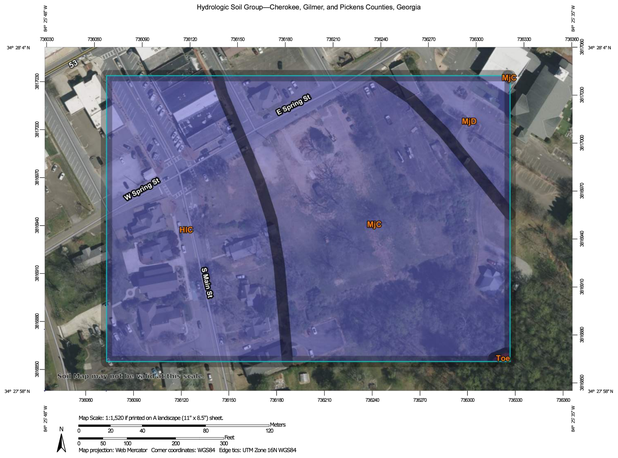
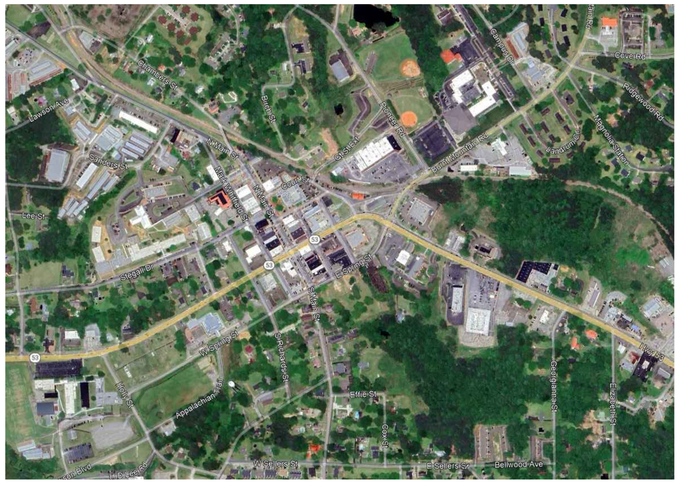


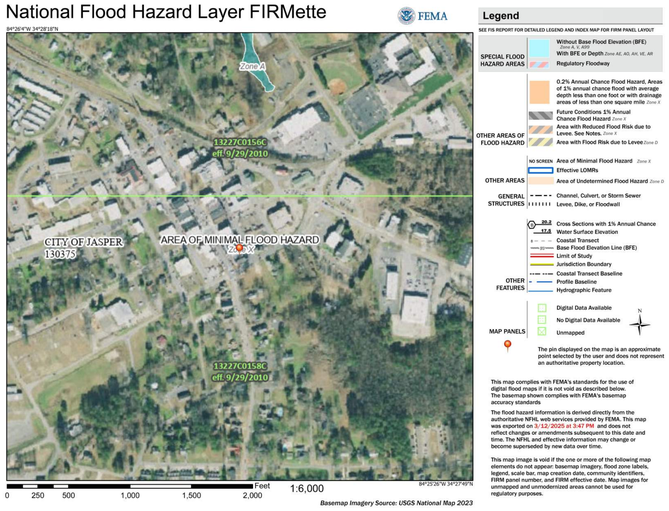
Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
HhC	Hayesville fine sandy loam, 6 to 10 percent slopes	B	4.4	38.7%
MjC	Madison fine sandy loam, 6 to 10 percent slopes	B	6.1	54.1%
MjD	Madison fine sandy loam, 10 to 15 percent slopes	B	0.8	7.1%
Toe	Toccoa complex	A	0.0	0.1%
Totals for Area of Interest			**11.2**	**100.0%**

SOIL MAP



VICINITY MAP
N.T.S.

National Flood Hazard Layer FIRMette



FIRMETTE

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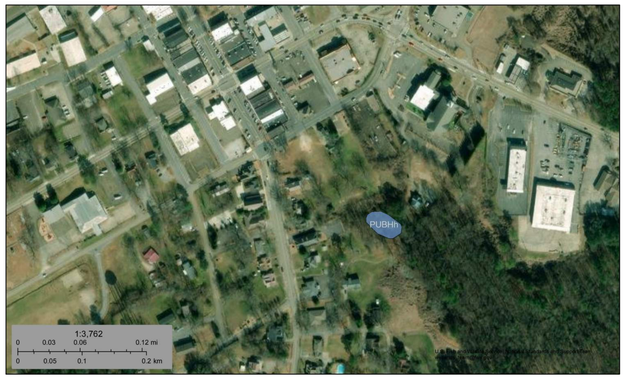
U.S. Fish and Wildlife Service
National Wetlands Inventory

JASPER PERROW PARK



March 12, 2025

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

National Wetlands Inventory (NWI)
This page was produced by the NWI mapper

WETLANDS INVENTORY MAP
N.T.S.

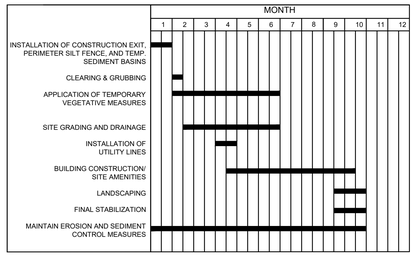
THERE ARE NOT ANY WETLANDS OR WATERS OF THE STATE LOCATED WITHIN THE PROJECT LIMITS.

VEGETATIVE PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Bf	BUFFER ZONE		Bf (LABEL)	Strip of undisturbed original vegetation, enhanced or restored existing vegetation or the reestablishment of vegetation surrounding an area of disturbance or bordering streams.
Cs	COASTAL DUNE STABILIZATION (WITH VEGETATION)		Cs	Planting vegetation on dunes that are denuded, artificially constructed, or re-nourished.
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)		Ds1	Establishing temporary protection for disturbed areas where seedlings may not have a suitable growing season to produce an erosion retarding cover.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMP SEEDING)		Ds2	Establishing a temporary vegetative cover with fast growing seedings on disturbed areas.
Ds3	DISTURBED AREA STABILIZATION (WITH PERM SEEDING)		Ds3	Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes 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.
Fl-Co	FLOCCULANTS AND COAGULANTS		Fl-Co	Substance formulated to assist in the solids/liquid separation of suspended particles in solution.
Sb	STREAMBANK STABILIZATION (USING PERM VEGETATION)		Sb	The use of readily available native plant materials to maintain and enhance streambanks, or to prevent, or restore and repair small streambank erosion problems.
Ss	SLOPE STABILIZATION		Ss	A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.
Tac	TACKIFIERS AND BINDERS		Tac	Substance used to anchor straw or hay mulch by causing the organic material to bind together.

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Cd	CHECKDAM			A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.
Ch	CHANNEL STABILIZATION			Improving, constructing or stabilizing an open channel existing stream, or ditch.
Co	CONSTRUCTION EXIT		Co (LABEL)	A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.
Cr	CONSTRUCTION ROAD STABILIZATION		Cr	A travelway constructed as part of a construction plan including access roads, subdivision roads, parking areas and other on-site vehicle transportation routes.
Dc	STREAM DIVERSION CHANNEL			A temporary channel constructed to convey flow around a construction site while a permanent structure is being constructed.
Di	DIVERSION			An earth channel or dike located above, below, or across a slope to divert runoff. This may be a temporary or permanent structure.
Dn1	TEMPORARY DOWNDRAIN STRUCTURE		Dn1 (LABEL)	A flexible conduit of heavy-duty fabric or other material designed to safely conduct surface runoff down a slope. This is temporary and inexpensive.
Dn2	PERMANENT DOWNDRAIN STRUCTURE		Dn2 (LABEL)	A paved chute, pipe, sectional conduit or similar material designed to safely conduct surface runoff down a slope.
Fr	FILTER RING			A temporary stone barrier constructed at storm drain inlets and pond outlets.
Ga	GABION			Rock filter baskets which are hand-placed into position forming soil stabilizing structures.
Gr	GRADE STABILIZATION STRUCTURE		Gr (LABEL)	Permanent structures installed to protect channels or waterways where otherwise the slope would be sufficient for the running water to form gullies.
Lv	LEVEL SPREADER			A structure to convert concentrated flow of water into less erosive sheet flow. This should be constructed only on undisturbed soils.
Rd	ROCK FILTER DAM			A permanent or temporary stone filter dam installed across small streams or drainageways.
Re	RETAINING WALL		Rw (LABEL)	A wall installed to stabilize cut and fill slopes where maximum permissible slopes are not obtainable. Each situation will require special design.
Rt	RETRO FITTING		Rt (LABEL)	A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary sediment filter.
Sd1	SEDIMENT BARRIER		(INDICATE TYPE)	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.
Sd3	TEMPORARY SEDIMENT BASIN		Sd3 (LABEL)	A basin created by excavation or a dam across a waterway. The surface water runoff is temporarily stored allowing the bulk of the sediment to drop out.
Sd4	TEMPORARY SEDIMENT TRAP			A small temporary pond that drains a disturbed area so that sediment can settle out. The principle feature distinguishing a temporary sediment trap from a temporary sediment basin is the lack of a pipe or riser.
Sk	FLOATING SURFACE SKIMMER		Sk (LABEL)	A buoyant device that releases/drains water from the surface of sediment ponds, traps, or basins at a controlled rate of flow.
Spb	SEEP BERM		Spb (LABEL)	Linear control device constructed as a diversion perpendicular to the direction of runoff to enhance dissipation and infiltration, while creating multiple sedimentation chambers with the employment of intermediate dikes.
Sr	TEMPORARY STREAM CROSSING		Sr (LABEL)	A temporary bridge or culvert-type structure protecting a stream or watercourse from damage by crossing construction equipment.
St	STORMDRAIN OUTLET PROTECTION		St	A paved or short section of riprap channel at the outlet of a storm drain system preventing erosion from the concentrated runoff.
Su	SURFACE ROUGHENING		Su	A rough soil surface with horizontal depressions on a contour or slopes left in a roughened condition after grading.
Tc	TURBIDITY CURTAIN		Tc	A floating or staked barrier installed within the water (it may also be referred to as a floating boom, silt barrier, or silt curtain).
Tp	TOPSOILING		Tp (SHOW STOCKPILE AND STORAGE AREAS)	The practice of stripping off the more fertile soil, storing it, then spreading it over the disturbed area after completion of construction activities.
Tr	TREE PROTECTION		(SHOW TREE CENTER)	To protect desirable trees from injury during construction activity.
Wt	VEGETATED WATERWAY OR STORMWATER CONVEYANCE CHANNEL			Paved or vegetative water outlets for diversions, terraces, berms, dikes or similar structures.



ANTICIPATED CONSTRUCTION SCHEDULE

NOTE: THE INSTALLATION OF EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES SHALL OCCUR PRIOR TO LAND-DISTURBING ACTIVITIES.

UNIFORM CODING SYSTEM
FOR SOIL EROSION & SEDIMENT CONTROL PRACTICES

NOTE:

1. ALL PHASE 1 PRACTICES TO BE COMPLETED (INCLUDING THE SD3 SEDIMENT BASIN, IF ANY) PRIOR TO ANY OTHER LAND DISTURBANCE ACTIVITIES. PHASE 2 PRACTICES TO BE IMPLEMENTED AS NEEDED DURING CONSTRUCTION. PHASE 3 PRACTICES TO BE IMPLEMENTED AS SOON AS CONSTRUCTION IS COMPLETE ON DIFFERENT ASPECTS OF THE PROJECT, NOT AT END OF ALL CONSTRUCTION ACTIVITIES FOR ENTIRE SITE.
2. ALL TEMPORARY EROSION CONTROL MEASURES ARE TO BE REMOVED FROM SITE AT COMPLETION OF PROJECT OR WHEN CONTRIBUTING DRAINAGE AREA ACHIEVES FINAL STABILIZATION. UNLESS OTHERWISE NOTED, STORM DRAIN OUTLET PROTECTION AND ROCK CHECK DAMS TO REMAIN IN PERMANENT CONDITION.

GMC
6120 Powers Ferry Road NW, Suite 350
Atlanta, GA 30339
T 770.952.2481
GMCNETWORK.COM

ISSUE	DATE
BID SET	2025.05.22

DRAWN BY: LKR
CHECKED BY:

PERROW PARK
JASPER, GA

LATL240013

EROSION CONTROL NOTES

C-501

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CLEARING PHASE EROSION CONTROL NOTES

PRIOR TO THE LAND DISTURBING CONSTRUCTION THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE AREA SITE DEVELOPMENT INSPECTOR.

THE CONTRACTOR SHALL OBSERVE THE PROJECT SEQUENCE SHOWN ON THE PLANS. THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO INSURE THAT LAND STRIPPED OF ITS NATURAL COVER IS EXPOSED ONLY IN SMALL QUANTITIES.

NO STAGING AREAS, MATERIAL STORAGE, CONCRETE WASH OUT AREAS, OR DEBRIS BURN AND BURIAL HOLES SHALL BE LOCATED WITHIN 500 FEET OF DESIGNATED TREE PROTECTION AREAS.

A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE AT ALL TIMES.

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.

PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, THE LIMITS OF LAND DISTURBANCE SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS. THE LOCATION AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE ACTIVITIES SHALL BE DEMARCATED FOR THE DURATION OF THE CONSTRUCTION ACTIVITIES. NO LAND DISTURBANCE SHALL TAKE PLACE OUTSIDE THE APPROVED LIMITS INDICATED ON THE APPROVED PLANS.

PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH POINT OF ENTRY OR EXIT FROM THE SITE OR ONTO ANY PUBLIC ROADWAY.

THE FOLLOWING INITIAL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITIES:

1. THE CONSTRUCTION EXIT, CONSISTING OF A MINIMUM PAD SIZE OF 20 FEET BY 50 FEET WITH A MINIMUM OF 6" THICK STONE, SHALL BE PLACED AS SHOWN ON THE PLANS. THE STONE SIZE SHALL CONSIST OF COURSE AGGREGATE BETWEEN 1-1/2" & 3-1/2" IN DIAMETER AND OVERLAID ON A GEOTEXTILE UNDERLINER. THE GEOTEXTILE UNDERLINER SHALL MEET THE REQUIREMENTS OF AASHTO M266-96, SECTION 7.3 SEPARATION REQUIREMENTS.

2. IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCE/EXIT ALL PERIMETER EROSION CONTROL AND STORM WATER MANAGEMENT DEVICp ES SHALL BE INSTALLED AS SHOWN ON THE CLEARING PHASE EROSION CONTROL PLAN.

3. TYPE 'S' SILT FENCE SHOULD BE INSTALLED AT THE PERIMETER OF THE DISTURBED AREA AS SHOWN ON THE PLAN. THE SILT FENCE SHOULD BE PLACED IN ACCORDANCE WITH THE MANUAL FOR EROSION CONTROL IN GEORGIA, TABLE 6-20.2. THE SILT FENCE SHOULD BE KEPT ERECT AT ALL TIMES AND REPAIRED WHEN REQUESTED BY THE SITE INSPECTOR OR THE PROJECT DESIGN PROFESSIONAL OF RECORD. SILT SHOULD BE REMOVED WHEN ACCUMULATION REACHES 1/2 HEIGHT OF BARRIER. THE PERIMETER SILT FENCE SHOULD BE INSPECTED DAILY FOR ANY FAILURES. ANY FAILURES OF SAID FENCING SHOULD BE REPAIRED IMMEDIATELY.

4. INLET SEDIMENT PROTECTION MEASURES SHALL BE INSTALLED ON ALL EXISTING STORM STRUCTURES AS SHOWN ON THE PLANS. SEE SEPARATE DETAIL FOR SPECIFICS ON TYPE OF INLET PROTECTION SPECIFIED.

5. STONE CHECK DAMS SHALL BE INSTALLED ON ALL EXISTING CONCENTRATED FLOWS AS SHOWN ON THE PLANS.

6. TREE PROTECTION FENCING SHOULD BE INSTALLED PRIOR TO THE START OF ANY LAND DISTURBANCE ACTIVITY AND MAINTAINED UNTIL FINAL LANDSCAPING IS INSTALLED. THE TREE PROTECTION FENCING SHOULD BE INSPECTED DAILY. ANY FAILURES OF SAID FENCING SHOULD BE REPAIRED IMMEDIATELY.

AFTER INSTALLATION OF INITIAL EROSION CONTROL MEASURES THE SITE CONTRACTOR SHALL SCHEDULE AN INSPECTION BY THE PROJECT DESIGN PROFESSIONAL. NO OTHER CONSTRUCTION ACTIVITIES SHALL OCCUR UNTIL THE PROJECT DESIGN PROFESSIONAL APPROVES THE INSTALLATION OF SAID EROSION CONTROL MEASURES. IF UNFORESEEN CONDITIONS EXIST IN THE FIELD THAT WARRANT CONSTRUCTION OF ADDITIONAL EROSION CONTROL MEASURES, THE CONTRACTOR MUST CONSTRUCT ANY ADDITIONAL EROSION CONTROL DEVICES DEEMED NECESSARY BY THE SITE INSPECTOR.

AFTER APPROVAL OF THE INITIAL EROSION CONTROL INSTALLATION, THE CONTRACTOR MAY PROCEED WITH CLEARING AND GRUBBING ACTIVITIES. AS CLEARING PERMITS THE CONTRACTOR SHALL CONSTRUCT INLET SEDIMENT TRAPS AS SHOWN ON THE CLEARING PHASE PLAN TO CONTROL EROSION AND STORM WATER RUNOFF.

THE CONTRACTOR CAN UTILIZE CLEARED TREES AS BARRIER BRUSH SEDIMENT CONTROL IN AREAS SHOWN ON PLAN WHERE INITIAL GRADING ACTIVITIES WILL NOT OCCUR.

NO BURN OR BURY PITS SHALL BE PERMITTED ON THE CONSTRUCTION SITE WITHOUT WRITTEN PERMISSION BY THE OWNER AND/OR THE ENGINEER OF RECORD.

ADDITIONAL SILT BARRIERS MUST BE PLACED AS SHOWN ON THE PLANS AS ACCESS IS OBTAINED DURING CLEARING. NO GRADING SHALL TAKE PLACE UNTIL SILT BARRIER INSTALLATION AND INLET SEDIMENT TRAPS ARE CONSTRUCTED AS SHOWN ON THE CLEARING PHASE EROSION CONTROL PLAN.

ALL SILT FENCE MUST MEET THE REQUIREMENTS OF SECTION 171-TEMPORARY SILT FENCE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF GEORGIA, STANDARD SPECIFICATIONS, 1983.

ALL ITEMS IN THIS SECTION OF THE SPECIFICATIONS SHALL MEET THE REQUIREMENTS AS SET FORTH IN SECTION 161, 162, 163, AND 164 OF GEORGIA D.O.T. STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES.

MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 7 DAYS OF LAND DISTURBANCE.

ALL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS SHALL BE STABILIZED WITH TEMPORARY VEGETATION.

SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.

THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY, THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1-3 INCH STONE, AS CONDITIONS DEMAND. ALL MATERIAL SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.

CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.

FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLAN.

THE SITE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTENANCE OF ALL EROSION CONTROL MEASURES INCLUDING REPLACING OR REPAIRING ANY DAMAGED DEVICES DUE TO ANY CONSTRUCTION ACTIVITY BY OTHERS.

GRADING PHASE EROSION CONTROL NOTES

THE FOLLOWING EROSION CONTROL MEASURES SHALL BE IMPLEMENTED DURING THE PRELIMINARY GRADING PHASE OF CONSTRUCTION:

DURING CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO INSURE THAT LAND STRIPPED OF ITS NATURAL GROUND COVER IS EXPOSED ONLY IN SMALL QUANTITIES AND THEREFORE LIMITED DURATION, BEFORE PERMANENT EROSION PROTECTION IS ESTABLISHED. NOTE SUB PHASES SHOWN ON PLANS.

EARTHWORK OPERATIONS IN THE VICINITY OF STREAM BUFFERS SHALL BE CAREFULLY CONTROLLED TO AVOID DUMPING OR SLOUGHING INTO THE BUFFER AREAS.

SEDIMENT SHALL NOT BE WASHED INTO INLETS. IT SHALL BE REMOVED FROM THE SEDIMENT TRAPS AND DISPOSED OF AND STABILIZED SO THAT IT WILL NOT ENTER THE INLET AGAIN.

EROSION CONTROL DEVICES SHALL BE INSTALLED IMMEDIATELY AFTER GROUND DISTURBANCE OCCURS. THE LOCATION OF SOME OF THE EROSION CONTROL MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE APPROVED PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE PROPOSED DRAINAGE PATTERNS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT THE VARIOUS STAGES OF CONSTRUCTION. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE DESIGN PROFESSIONAL IMMEDIATELY.

THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY BARRICADES WHILE ROADWAY FRONTAGE IMPROVEMENTS ARE BEING MADE.

TYPE "S" SILT FENCE SHOULD BE INSTALLED AT THE TOE OF ALL FILL SLOPES 10 FEET OR GREATER IN HEIGHT. THE SILT FENCE SHOULD BE PLACED IN ACCORDANCE WITH THE MANUAL FOR EROSION CONTROL IN GEORGIA, TABLE 6-20.2. THE SILT FENCE SHALL BE MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED ON THE SLOPE. SILT SHALL BE REMOVED WHEN ACCUMULATION REACHES ½ HEIGHT OF THE BARRIER. ADDITIONALLY, DIVERSION DIKES SHALL BE CONSTRUCTED ALONG THE TOP OF ALL SAID FILL SLOPES WITH THE USE OF TEMPORARY DOWN DRAINS TO CONTROL STORM WATER RUNOFF AS SHOWN ON THE PLANS. SEE SEPARATE DETAILS FOR ADDITIONAL INFORMATION.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING BARRIERS AT THE TOE OF SLOPES UNDER CONSTRUCTION. THESE BARRIERS SHALL BE SHOWN IN THE PLANS. THESE BARRIERS MAY BE RELOCATED AND REUSED AFTER PERMANENT SLOPE STABILIZATION BECOMES FULLY ESTABLISHED. AS THEY ARE RELOCATED, ANY DEFECTIVE MATERIALS IN THE BARRIER SHALL BE REPLACED. IN ADDITION, ALL DEBRIS AND SILT AT THE PREVIOUS LOCATION SHALL BE REMOVED.

CUT SLOPES ARE NOT TO EXCEED "2H:1V"
CUT AND FILL SLOPES ARE NOT TO EXCEED "3H:1V"

THE FOLLOWING EROSION CONTROL MEASURES SHALL BE IMPLEMENTED DURING THE PRELIMINARY GRADING PHASE OF CONSTRUCTION.

TYPE "S" SILT FENCE SHALL BE PLACED AT THE TOE OF ALL DIRT STOCK PILE AREAS. SEE SEPARATE DETAILS FOR ADDITIONAL INFORMATION.

INLET SEDIMENT PROTECTION MEASURES SHALL BE INSTALLED ON ALL STORM STRUCTURES AS THEY ARE CONSTRUCTED. SEE PLAN VIEW FOR SPECIFIC TYPE AND SEPARATE DETAILS FOR ADDITIONAL INFORMATION ON TYPE OF INLET PROTECTION SPECIFIED.

STORM DRAIN OUTLET PROTECTION SHALL BE PLACED AT ALL OUTLET HEADWALLS AS SOON AS THE HEADWALL IS CONSTRUCTED. SEE SEPARATE DETAILS FOR ADDITIONAL INFORMATION.

STONE OR COMPOSITE SOCK CHECK DAMS SHALL BE INSTALLED IN AREAS OF CONCENTRATED FLOWS AS SHOWN ON THE PLAN. SEE SEPARATE DETAIL FOR ADDITIONAL INFORMATION.

ALL DRAINAGE SWALES SHALL BE APPLIED WITH VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED.

ALL GRADED AREAS SHALL BE APPLIED WITH VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED.

MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 7 DAYS OF LAND DISTURBANCE.

ALL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS SHALL BE STABILIZED WITH TEMPORARY GRASSING.

AFTER PRELIMINARY GRADING ACTIVITIES, THE CONTRACTOR SHALL CONSTRUCT TEMPORARY INLET SEDIMENT TRAPS AS SHOWN ON PLAN. THE CONTRACTOR SHALL MAINTAIN THE SEDIMENT TRAPS UNTIL PERMANENT GROUND COVER IS ESTABLISHED. SEDIMENT SHALL BE CLEANED OUT OF THE TRAPS AT 22 CY/AC DRAINED. SEE SEPARATE DETAILS FOR ADDITIONAL INFORMATION.

SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.

THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1-3" OF STONE. AS CONDITIONS DEMAND. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.

CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.

FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLANS.

THE SITE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTENANCE OF ALL EROSION CONTROL MEASURES INCLUDING REPLACING OR REPAIRING ANY DAMAGED DEVICES DUE TO ANY CONSTRUCTION ACTIVITY BY OTHERS.

FINAL PHASE EROSION CONTROL NOTES

THE FOLLOWING EROSION CONTROL MEASURES SHALL BE IMPLEMENTED DURING THE FINAL EROSION CONTROL PHASE OF CONSTRUCTION:

SEDIMENT SHALL NOT BE WASHED INTO INLETS. IT SHALL BE REMOVED FROM THE SEDIMENT TRAPS AND DISPOSED OF AND STABILIZED SO THAT IT WILL NOT ENTER THE INLETS AGAIN.

MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 7 DAYS OF LAND DISTURBANCE.

THE CONTRACTOR SHALL MAINTAIN ALL SEDIMENT TRAPS AND EROSION CONTROL MEASURES UNTIL PERMANENT GROUND COVER IS ESTABLISHED. SEDIMENT SHALL BE CLEANED OUT OF THE TRAPS WHEN IT REACHES ONE THIRD OF THE DEPTH OF THE TRAPS.

AFTER CURBING, GRADED AGGREGATE BASE, AND PAVEMENT HAVE BEEN INSTALLED, ALL INLET SEDIMENT TRAPS ON SINGLE AND DOUBLE WING CATCH BASINS ALONG WITH ANY CURB INLETS SHALL BE REMOVED AND REPLACED WITH CURB FILTER INLET PROTECTION. SEE SEPARATE DETAIL FOR ADDITIONAL INFORMATION.

ALL ROADWAY AND PARKING SHOULDERS SHOULD BE APPLIED WITH VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED BEHIND CURBS.

STONE CHECK DAMS SHALL BE INSTALLED IN AREAS OF CONCENTRATED FLOWS AS SHOWN ON THE PLAN. SEE SEPARATE DETAIL FOR ADDITIONAL INFORMATION.

SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE-HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.

THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1-3" OF STONE, AS CONDITIONS DEMAND. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.

CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.

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 AS DIRECTED BY THE ON-SITE INSPECTOR OR THE CIVIL ENGINEER.

FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLANS.

THE SITE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTENANCE OF ALL EROSION CONTROL MEASURES INCLUDING REPLACING OR REPAIRING ANY DAMAGED DEVICES DUE TO CONSTRUCTION ACTIVITY BY OTHERS.

UPON COMPLETION OF THE PROJECT AND RECEIPT OF CERTIFICATE OF OCCUPANCY, THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND DISPOSE OF THEM UNLESS NOTED ON PLANS.

CRITICAL WORK ZONE EROSION CONTROL NOTES:

AT THE END OF EACH WORK DAY ALL SLOPES 2:1 OR STEEPER AND HIGHER THAN 5 FEET SHALL RECEIVE SURFACE ROUGHENING, POLYMERS, AND EROSION CONTROL MATTING. ADDITIONALLY, ALL FILL SLOPES SHALL RECEIVE A DIVERSION DIKE AND TEMPORARY DRAIN ALONG THE TOP OF THE SLOPE PREVENTING DRAINAGE SPILLING OVER THE EDGE AND DOWN THE FACE OF THE SLOPE. THE TEMPORARY DOWN DRAINS SHALL BE CONSTRUCTED WITH PERFORATED STAND PIPES AT THE TOP OF THE SLOPE AND RECONSTRUCTED EACH DAY AS THE SLOPE INCREASES IN HEIGHT. 3:1 SLOPES SHALL RECEIVE MATTING AS SPECIFIED ON THE EROSION CONTROL PLANS.

NPDES PERMIT COVERAGE

THIS PLAN HAS BEEN PREPARED TO MEET THE REQUIREMENTS UNDER THE STATE OF GEORGIA, DEPARTMENT OF NATURAL RESOURCES, ENVIRONMENTAL PROTECTION DIVISION (EDP). GENERAL PERMIT NO. GAR 100001. FOR AUTHORIZATION TO DISCHARGE UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES). STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY FOR STAND ALONE DEVELOPMENTS.

AUTHORIZED DISCHARGES
1. ALL DISCHARGES OF STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITY THAT WILL RESULT IN LAND DISTURBANCE EQUAL TO OR GREATER THAN ONE ACRE. PART I.C.1.a-c.

2. ALL DISCHARGES COVERED BY THIS PERMIT SHALL BE COMPOSED ENTIRELY OF STORMWATER EXCEPT AS PROVIDED IN PART I.C.2 AND PART III.A.2 OF THE PERMIT. PART III.A.1

3. AUTHORIZED MIXED STORMWATER DISCHARGES: PART I.C.2

A. THE INDUSTRIAL SOURCE OR ACTIVITY OTHER THAN CONSTRUCTION IS LOCATED ON THE SAME SITE AS THE CONSTRUCTION ACTIVITY AND IS AN INTEGRAL PART OF THE CONSTRUCTION ACTIVITY.

B. THE STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES ARE OCCURRING ARE IN COMPLIANCE WITH THE TERMS OF THIS PERMIT.

C. STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE AREAS OF THE SITE WHERE INDUSTRIAL ACTIVITY OTHER THAN CONSTRUCTION ARE OCCURRING ARE COVERED BY A DIFFERENT NPDES GENERAL PERMIT OR INDIVIDUAL PERMIT AUTHORIZING SUCH DISCHARGES AND THE DISCHARGES ARE IN COMPLIANCE WITH A DIFFERENT NPDES PERMIT.

4. AUTHORIZED NON-STORMWATER DISCHARGES: PART III.A.2
A. FIRE FIGHTING ACTIVITIES
B. FIRE HYDRANT FLUSHING
C. POTABLE WATER SOURCES INCLUDING WATER LINE FLUSHING
D. IRRIGATION DRAINAGE
E. AIR CONDITIONING CONDENSATE
F. SPRINGS
G. UNCONTAMINATED GROUND WATER
H. FOUNDATION OR FOOTING DRAINS WHERE FLOWS ARE NOT CONTAMINATED WITH PROCESS MATERIALS OR POLLUTANTS

LIMITATIONS ON COVERAGE PART I.C.3

1. THE FOLLOWING STORMWATER DISCHARGES FROM CONSTRUCTION SITES ARE NOT AUTHORIZED BY THIS PERMIT:

A. STORMWATER DISCHARGES ASSOCIATED WITH AN INDUSTRIAL ACTIVITY THAT ORIGINATES FROM THE SITE AFTER CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED AND THE SITE HAS UNDERGONE FINAL STABILIZATION.

B. DISCHARGES THAT ARE MIXED WITH SOURCES OF NON-STORMWATER OTHER THAN DISCHARGES THAT ARE IDENTIFIED IN PART II.A.2 OF THIS PERMIT AND THAT ARE IN COMPLIANCE WITH PART IV.D.6 (NON-STORMWATER DISCHARGES) OF THIS PERMIT.

C. STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY THAT ARE SUBJECT TO AN EXISTING NPDES INDIVIDUAL OR GENERAL PERMIT. SUCH DISCHARGES MAY BE AUTHORIZED UNDER THIS PERMIT AFTER AN EXISTING PERMIT EXPIRES PROVIDED THE EXISTING PERMIT DID NOT ESTABLISH NUMERIC LIMITATIONS FOR SUCH DISCHARGES.

D. STORMWATER DISCHARGES FROM CONSTRUCTION SITES THAT THE DIRECTOR (EPD) HAS DETERMINED TO BE, OR MAY REASONABLY BE EXPECTED TO BE, CONTRIBUTING TO A VIOLATION OF A WATER QUALITY STANDARD.

2. WHERE A RELEASE CONTAINING A HAZARDOUS SUBSTANCE IN AN AMOUNT EQUAL TO OR IN EXCESS OF A REPORTING 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 117 OR CFR 302 OCCURS DURING A 24 HOUR PERIOD, THE PERMITTEE IS REQUIRED TO NOTIFY THE FOLLOWING AGENCIES IN ACCORDANCE WITH THE ABOVE MENTIONED REGULATIONS AS SOON AS HE HAS KNOWLEDGE OF THE DISCHARGE: EPD AT (404)656-4883 OR (800) 241-4113 OR THE NATIONAL RESPONSE CENTER (NRC) AT 1-(800) 424-8802. PART III.B.1

3. THIS PERMIT DOES NOT AUTHORIZE THE DISCHARGE OF HAZARDOUS SUBSTANCES OR OIL RESULTING FROM AN ON-SITE SPILL. PART III.B.2

WATER QUALITY COMPLIANCE PART I.C.4

ALL DISCHARGES AUTHORIZED BY THIS PERMIT SHALL NOT CAUSE VIOLATIONS OF GEORGIA'S IN-STREAM WATER QUALITY STANDARDS AS PROVIDED BY THE RULES AND REGULATIONS FOR WATER QUALITY CONTROL, CHAPTER 301-3-6-03.

NPDES PERMIT COVERAGE

SEE PLAN FOR SAMPLING LOCATIONS.

SAMPLING METHODOLOGY PART IV.D.6

All SAMPLING SHALL BE COLLECTED BY "GRAB SAMPLES" AND THE ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 (UNLESS OTHER TEST PROCEDURES HAVE BEEN APPROVED). THE GUIDANCE DOCUMENT TITLED "NPDES STORMWATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001" AND GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE EPD.

1. SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES.

2. SAMPLES SHALL BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER.

3. LARGE MOUTH, WELL CLEANED AND RINSED GLASS OR PLASTIC JARS SHALL BE USED FOR COLLECTING SAMPLES. THE JARS SHOULD BE CLEANED THOROUGHLY TO AVOID CONTAMINATION

4. MANUAL, AUTOMATIC, OR RISING STAGE SAMPLING MAY BE UTILIZED. SAMPLES REQUIRED BY THIS PERMIT SHOULD BE ANALYZED IMMEDIATELY, BUT IN NO CASE LATER THAN 48 HOURS AFTER COLLECTION. HOWEVER, SAMPLES FROM AUTOMATIC SAMPLERS MUST BE COLLECTED NO LATER THAN THE NEXT BUSINESS DAY AFTER THEIR ACCUMULATION, UNLESS FLOW-THROUGH AUTOMATED ANALYSIS IS UTILIZED. IF AUTOMATIC SAMPLING IS UTILIZED AND THE AUTOMATIC SAMPLER IS NOT ACTIVATED DURING THE QUALIFYING EVENT, THE PERMITTEE MUST UTILIZE MANUAL SAMPLING OR RISING STAGE SAMPLING DURING THE NEXT QUALIFYING EVENT. DILUTION OF SAMPLES IS NOT REQUIRED. SAMPLES MAY BE ANALYZED DIRECTLY WITH A PROPERLY CALIBRATED TURBIDIMETER. SAMPLES ARE NOT REQUIRED TO BE COOLED.

5. SAMPLING AND ANALYSIS OF THE RECEIVING WATER(S) OR OUTFALLS BEYOND THE MINIMUM FREQUENCY STATED IN THE PERMIT MUST BE REPORTED TO EPD AS SPECIFIED IN PART IV.E.

SAMPLING FREQUENCY

SAMPLING FREQUENCY SHALL OCCUR IN ACCORDANCE WITH PART IV.D.6.D OF THE PERMIT.

1. THE PRIMARY PERMITTEE MUST SAMPLE IN ACCORDANCE WITH THE PLAN AT LEAST ONCE FOR EACH RAINFALL EVENT DESCRIBED BELOW. FOR A QUALIFYING EVENT, THE PERMITTEE SHALL SAMPLE AT THE BEGINNING OF ANY STORM WATER DISCHARGE TO A MONITORED RECEIVING WATER AND/OR FROM A MONITORED OUTFALL LOCATION WITHIN FORTY-FIVE (45) MINUTES OR AS SOON AS POSSIBLE.

2. HOWEVER, WHERE THE MANUAL AND AUTOMATIC SAMPLING ARE IMPOSSIBLE (AS DEFINED IN THE PERMIT), OR ARE BEYOND THE PERMITTEE'S CONTROL, THE PERMITTEE SHALL TAKE SAMPLES AS SOON AS POSSIBLE, BUT IN NO CASE MORE THAN TWELVE (12) HOURS AFTER THE BEGINNING OF THE STORM WATER DISCHARGE.

3. SAMPLING BY THE PERMITTEE SHALL OCCUR FOR THE FOLLOWING QUALIFYING EVENTS:
   A. FOR EACH OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORM WATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS PERMIT AFTER ALL CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO COMPLETION OF MASS GRADING OPERATIONS, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION;

   B. IN ADDITION TO A ABOVE, FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORM WATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS PERMIT EITHER 90 DAYS AFTER THE FIRST SAMPLING EVENT OR AFTER ALL MASS GRADING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO SUBMITTAL OF A NOT, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION, WHICHEVER COMES FIRST;

   C. AT THE TIME OF SAMPLING PERFORMED PURSUANT TO A AND B ABOVE, IF BMPS IN ANY AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL ARE NOT PROPERLY DESIGNED, INSTALLED AND MAINTAINED CORRECTIVE ACTION SHALL BE DEFINED AND IMPLEMENTED WITHIN TWO (2) BUSINESS DAYS, AND TURBIDITY SAMPLES SHALL BE TAKEN FROM DISCHARGES FROM THAT AREA OF THE SITE FOR EACH SUBSEQUENT RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH DURING NORMAL BUSINESS HOURS* UNTIL THE SELECTED TURBIDITY STANDARD IS ATTAINED, OR UNTIL POST-STORM EVENT INSPECTIONS DETERMINE THAT BMPS ARE PROPERLY DESIGNED, INSTALLED AND MAINTAINED;

   D. WHERE SAMPLING PURSUANT TO A, B OR C ABOVE IS REQUIRED BUT NOT POSSIBLE (OR NOT REQUIRED BECAUSE THERE WAS NO DISCHARGE), THE PERMITTEE, IN ACCORDANCE WITH PART IV.D.4.A.(6), MUST INCLUDE A WRITTEN JUSTIFICATION IN THE INSPECTION REPORT OF WHY SAMPLING WAS NOT PERFORMED. PROVIDING THIS JUSTIFICATION DOES NOT RELIEVE THE PERMITTEE OF ANY SUBSEQUENT SAMPLING OBLIGATIONS UNDER A, B OR C ABOVE; AND

   E. EXISTING CONSTRUCTION ACTIVITIES, I.E. THOSE THAT ARE OCCURRING ON OR BEFORE THE EFFECTIVE DATE OF THIS PERMIT, THAT HAVE MET THE SAMPLING REQUIRED BY (A) ABOVE SHALL SAMPLE IN ACCORDANCE WITH (B). THOSE EXISTING CONSTRUCTION ACTIVITIES THAT HAVE MET THE SAMPLING REQUIRED BY (B) ABOVE SHALL NOT BE REQUIRED TO CONDUCT ADDITIONAL SAMPLING OTHER THAN AS REQUIRED BY (C) ABOVE.

* NOTE THAT THE PERMITTEE MAY CHOOSE TO MEET THE REQUIREMENTS OF 3.A. AND 3.B. BY COLLECTING TURBIDITY SAMPLES FROM ANY RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR SAMPLING AT ANY TIME OF THE DAY OR WEEK.

CERTIFICATIONS

1. 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 STORMWATER O

EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN (ESPC)

THIS PLAN WAS PREPARED AS REQUIRED BY NPDES GENERAL PERMIT NO. GAR 100001 (STAND ALONE CONSTRUCTION PROJECT). THESE PLAN SHEETS AND ALL REQUIREMENTS OF THE GENERAL PERMIT AS WELL AS LOCAL, STATE, AND FEDERAL REGULATIONS OR LAWS APPLY REGARDLESS OF SPECIFIC INCLUSION IN THIS PLAN.

SITE AND CONSTRUCTION ACTIVITY DESCRIPTION:

OWNER/DEVELOPER AS PRIMARY PERMITTEE WILL OVERSEE SITE CONSTRUCTION LOCATED AT THE CORNER OF WEST MAIN STREET, AND EAST SPRING STREET IN JASPER, GA.

CONSTRUCTION WILL BEGIN WITH PLACEMENT OF PERIMETER SILT PROTECTION BARRIERS, CONSTRUCTION ENTRANCES AND TEMPORARY SEDIMENT BASINS. AFTER THESE EROSION CONTROL BEST MANAGEMENT PRACTICES HAVE BEEN INSTALLED, CLEARING AND GRUBBING OF VEGETATION WILL COMMENCE IN AREAS THAT ARE TO BE DISTURBED. THE SITE WILL THEN BE GRADED AND UTILITIES WILL BE STABILIZED WITH VEGETATION, SIDEWALKS OR STRUCTURES.

STORM WATER RUNOFF FROM THIS DEVELOPMENT WILL BE DIVERTED THROUGH TEMPORARY BMP'S UNTIL THE SITE IS STABILIZED.

ZONING:

THIS SITE IS ZONED C-2 GENERAL COMMERCIAL.

SURVEY INFORMATION:

NO PORTION OF THIS PROPERTY IS LOCATED WITHIN A 100-YEAR FLOODPLAIN. SEE FEMA FIRM PANEL SHOWN ON C-501.

SEE "STORMWATER REPORT FOR ADDITIONAL INFORMATION.

SOIL TYPES

THE NRCS SOIL TYPES CAN BE FOUND ON SHEET C-501 OF THESE CONSTRUCTION DOCUMENTS

SOIL DISTRIBUTING ACTIVITIES INCLUDE:

- INSTALLING A STABILIZED CONSTRUCTION EXIT, PERIMETER AND OTHER EROSION AND SEDIMENT CONTROLS.
- CLEARING AND GRUBBING.
- EXCAVATION OF THE FOUNDATION.
- GRADING AND EXCAVATION FOR UTILITIES.
- PREPARATION FOR FINAL PLANTING AND SEEDING.
- COMPLETION OF ON-SITE STABILIZATION.

SEQUENCE OF MAJOR ACTIVITIES - SEE CONSTRUCTION SCHEDULE

NAME OF RECEIVING WATERS:

THE RECEIVING WATER FOR THIS SITE IS SHARP MOUNTAIN CREEK.

CONTROLS

EROSION AND SEDIMENT CONTROLS

ALL PERIMETER SILT FENCES AND CONSTRUCTION EXITS SHALL BE IN PLACE PRIOR TO ANY LAND DISTURBING ACTIVITIES.

EXISTING VEGETATION SHALL BE LEFT IN PLACE UNTIL SUCH TIME THAT LAND DISTURBING ACTIVITIES ARE TO TAKE PLACE UPON THAT PORTION OF THE SITE. WHEN CONSTRUCTION ACTIVITIES HAVE CEASED IN AN AREA, THAT AREA SHALL BE STABILIZED WITHIN 14 DAYS. IF THE AREA IS NOT YET TO FINAL GRADE, IT SHALL BE MULCHED. IF THE AREA IS TO FINAL GRADE AND WILL EVENTUALLY CONTAIN SITE IMPROVEMENTS SUCH AS THE STRUCTURES OR SIDEWALKS, IT SHALL BE TEMPORARY SEEDED. AREAS BROUGHT TO FINAL GRADE THAT WILL REMAIN PERVIOUS ARE TO BE PERMANENTLY SEEDED. ALLOWABLE EXCEPTIONS FROM THE NPDES GENERAL PERMIT, GAR 100001, ARE NOTED BELOW.

"WHERE THE INITIATION OF STABILIZATION MEASURES BY THE 14TH DAY AFTER CONSTRUCTION, ACTIVITY TEMPORARY OR PERMANENTLY CEASE IS PRECLUDED BY SNOW COVER OR OTHER ADVERSE WEATHER CONDITIONS, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE."

PLEASE REFER TO DETAIL SHEETS FOR THE TEMPORARY AND PERMANENT GRASSING SCHEDULES.

NON-STORM WATER DISCHARGES

ALL NON-STORM WATER DISCHARGES WILL BE ROUTED THROUGH ON SITE BMP'S AND THE STORM WATER MANAGEMENT SYSTEM WHERE POSSIBLE. THESE DISCHARGES INCLUDE FLUSHING OF WATER AND FIRE LINES, IRRIGATION WATER, GROUND WATER, DEWATERING OR PITS OR DEPRESSIONS WITHIN THE CONSTRUCTION SITE AND RINSE ALL WATER OF NON-TOXIC MATERIALS.

OTHER CONTROLS

NO WASTE WILL BE DISPOSED OF INTO STORM WATER INLETS OR WATERS OF THE STATE.

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. A NOTICE STATING THESE PRACTICES WILL BE POSTED AT THE JOBSITE AND THE CONTRACTOR WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

HAZARDOUS WASTES

ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL, STATE, AND/OR FEDERAL REGULATIONS AND BY THE MANUFACTURER OF SUCH PRODUCTS. THE JOB SITE SUPERINTENDENT WHO WILL ALSO BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED WILL INSTRUCT SITE PERSONNEL IN THESE PRACTICES. MATERIAL SAFETY DATA SHEETS (MSDS'S) FOR EACH SUBSTANCE WITH HAZARDOUS PROPERTIES THAT IS USED ON THE JOB SITE WILL BE OBTAINED AND USED FOR THE PROPER MANAGEMENT OF POTENTIAL WASTES THAT MAY RESULT FROM THESE PRODUCTS. AN MSDS WILL BE POSTED IN THE IMMEDIATE AREA WHERE SUCH PRODUCT IS STORED AND/OR USED AND ANOTHER COPY OF EACH MSDS WILL BE MAINTAINED IN THE ESPCP FILE AT THE JOB SITE CONSTRUCTION TRAILER OFFICE. EACH EMPLOYEE WHO MUST HANDLE A SUBSTANCE WITH HAZARDOUS PROPERTIES WILL BE INSTRUCTED ON THE USE OF MSDS SHEETS AND ALL THE SPECIFIC INFORMATION IN THE APPLICABLE MSDS FOR THE PRODUCT HE/SHE IS USING PARTICULARLY REGARDING SPILL CONTROL TECHNIQUES.

THE CONTRACTOR WILL IMPLEMENT THE SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) PLAN FOUND WITHIN THIS ESPCP AND WILL TRAIN ALL PERSONNEL IN THE PROPER CLEANUP AND HANDLING OF SPILLED MATERIALS. NO SPILLED HAZARDOUS MATERIALS OR HAZARDOUS WASTE WILL BE ALLOWED TO COME IN CONTACT WITH STORM WATER DISCHARGES. IF SUCH CONTACT OCCURS, THE STORM WATER DISCHARGE WILL BE CONTAINED ONSITE UNTIL APPROPRIATE MEASURES IN COMPLIANCE WITH STATE AND FEDERAL REGULATIONS ARE TAKEN TO DISPOSE OF SUCH CONTAMINATED STORM WATER. IT SHALL BE THE RESPONSIBILITY OF THE JOB SITE SUPERINTENDENT TO PROPERLY TRAIN ALL PERSONNEL IN THE USE OF THE SPCC PLAN.

SANITARY WASTES

A MINIMUM OF ONE PORTABLE SANITARY UNIT WILL BE PROVIDED FOR EVERY TEN WORKERS ON THE SITE. ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE A MINIMUM OF ONE TIME PER WEEK BY A LICENSED PORTABLE FACILITY PROVIDER IN COMPLETE COMPLIANCE WITH LOCAL AND STATE REGULATIONS.

ALL SANITARY WASTE UNITS WILL BE LOCATED IN ONE AREA WHERE THE LIKELIHOOD OF THE UNIT CONTRIBUTING TO STORM WATER DISCHARGE IS NEGLIGIBLE. ADDITIONAL CONTAINMENT BMP'S MUST BE IMPLEMENTED, SUCH AS GRAVEL BAGS OR SPECIALLY DESIGNED PLASTIC SKID CONTAINERS AROUND THE BASE TO PREVENT WASTES FROM CONTRIBUTING TO STORM WATER DISCHARGES. THE LOCATION OF SANITARY WASTE UNITS MUST BE IDENTIFIED ON THE EROSION CONTROL PLAN GRADING PHASE BY THE CONTRACTOR ONCE THE LOCATIONS HAVE BEEN DETERMINED.

SANITARY SEWER WILL BE PROVIDED BY MUNICIPAL AUTHORITY/ SEPTIC SYSTEM OF THE COMPLETION OF THIS PROJECT.

CONCRETE WASHDOWN

WASHOUT OF THE CONCRETE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED. PREVENT OR REDUCE THE DISCHARGE OF POLLUTANTS TO STORM WATER FROM CONCRETE WASTE BY CONDUCTING WASHOUT OFF-SITE, PERFORMING ON-SITE WASHOUT IN A DESIGNATED AREA, AND TRAINING EMPLOYEES AND SUBCONTRACTORS.

1. STORE DRY AND WET MATERIALS UNDER COVER, AWAY FROM DRAINAGE AREAS.
2. AVOID MIXING EXCESS AMOUNTS OF FRESH CONCRETE OR CEMENT ON-SITE.
3. PERFORM WASHOUT OF CONCRETE TRUCKS OFF-SITE OR IN DESIGNATED AREAS ONLY.
4. DO NOT WASH OUT CONCRETE TRUCKS INTO STORM DRAINS, OPEN DITCHES, STREETS, OR STREAMS.
5. DO NOT ALLOW EXCESS CONCRETE TO BE DUMPED ON-SITE, EXCEPT IN DESIGNATED AREAS.
6. WHEN WASHING CONCRETE TO REMOVE FINE PARTICLES AND EXPOSE THE AGGREGATE, AVOID CREATING RUNOFF BY DRAINING THE WATER WITHIN A BERMED OR LEVEL AREA.
7. TRAIN EMPLOYEES AND SUBCONTRACTORS IN PROPER CONCRETE WASTE MANAGEMENT.

OFFSITE VEHICLE TRACKING

A STABILIZED CONSTRUCTION EXIT HAS BEEN PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENT. UTILITY SHEETS FOR CONSTRUCTION EXIT LOCATION AND DETAILS. THE PAVED STREET ADJACENT TO THE SITE EXIT WILL BE INSPECTED DAILY FOR TRACKING OF MUD, DIRT, OR RACK. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARPAULIN.

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, SHEET ROCK, FLOOR COVERINGS, ELECTRICAL WIRE AND FIXTURES, PAINTS/ STAINS/ FINISHING TREATMENTS, PAINT SOLVENTS, ADDITIVES FOR SOIL STABILIZATION, CLEANING SOLVENTS, PESTICIDES, FERTILIZERS, HERBICIDES, CRUSHED STONE, PLASTIC AND METAL PIPES.

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.

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 AND DISPOSAL OF PRODUCT CONTAINERS WILL BE ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
5. THE CONTRACTOR WILL INSPECT SUCH MATERIALS TO ENSURE PROPER USE, STORAGE AND DISPOSAL.

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 ON SITE VEHICLE AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE OR 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 INCLUDE COLLECTION IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS.

PAINTS/ FINISHES/ SOLVENTS - ALL PRODUCTS 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 MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.

CONCRETE TRUCK WASHING - NO CONCRETE TRUCKS WILL BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASTE WATER ONSITE.

FERTILIZER/HERBICIDES - THESE PRODUCTS WILL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS OR ABOVE THE GUIDELINES SET FORTH IN THE CROP ESTABLISHMENT OR IN THE GSWCC 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 PROCEDURES.

SOIL 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 INCLUDES BUT IS NOT LIMITED TO BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST AND PROPERLY LABELED PLASTIC AND METAL WASTE CONTAINERS.
- SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS.
- ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS WILL BE REPORTED AS REQUIRED BY LOCAL, STATE AND FEDERAL REGULATIONS.
- FOR SPILLS THAT IMPACT SURFACE WATER, THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-(800) 424-8802.
- FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL CENTER WILL BE CONTACTED WITH IN 24 HOURS.
- FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE GEORGIA EPD WILL BE CONTACTED WITHIN 24 HOURS.
- FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS THE SPILL WILL BE CLEANED UP AND LOCAL AGENCIES WILL BE CONTACTED AS REQUIRED.

THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF MORE THAN 1320 GALLONS OF PETROLEUM IS STORED ONSITE (THIS INCLUDES CAPACITIES OF EQUIPMENT) 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.

INSPECTIONS

PERMITTEE REQUIREMENTS:

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 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 POINTS 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 PERMITTEE MUST COMPLY WITH PART IV.D.4.A.(4). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED

4. CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THIS PERMIT (I.E., UNTIL A NOTICE OF TERMINATION HAS BEEN SUBMITTED) THE AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATER(S). EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S).

5. BASED ON THE RESULTS OF EACH INSPECTION, THE SITE DESCRIPTION AND THE POLLUTION PREVENTION AND CONTROL MEASURES IDENTIFIED IN THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, THE PLAN SHALL BE REVISED AS APPROPRIATE NOT LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. IMPLEMENTATION OF SUCH CHANGES SHALL BE IMPLEMENTED AS PRACTICAL BUT IN NO CASE LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION.

6. A REPORT OF EACH INSPECTION THAT INCLUDES THE NAME(S) OF CERTIFIED PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION, CONSTRUCTION PHASE (I.E., INITIAL, INTERMEDIATE OR FINAL), MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH PART IV.D.4.A.(5). OF THE PERMIT SHALL BE MADE AND RETAINED AT THE SITE OR BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION UNTIL THE ENTIRE SITE OR THAT PORTION OF A CONSTRUCTION SITE THAT HAS BEEN PHASED HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. SUCH REPORTS SHALL BE READILY AVAILABLE BY END OF THE SECOND BUSINESS DAY AND/OR WORKING DAY AND SHALL IDENTIFY ALL INCIDENTS OF BEST MANAGEMENT PRACTICES THAT HAVE NOT BEEN PROPERLY INSTALLED AND/OR MAINTAINED AS DESCRIBED IN THE PLAN. WHERE THE REPORT DOES NOT IDENTIFY ANY INCIDENTS. THE INSPECTION REPORT SHALL CONTAIN A CERTIFICATION THAT THE BEST MANAGEMENT PRACTICES ARE IN COMPLIANCE WITH THE EROSION,SEDIMENTATION AND POLLUTION CONTROL PLAN. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART V.G.2. OF THIS PERMIT.

MAINTENANCE & INSPECTION OF EROSION & SEDIMENT CONTROLS

MAINTENANCE

THE FOLLOWING BEST MANAGEMENT PRACTICE MAINTENANCE CRITERIA ARE TAKEN FORM THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA", FIFTH EDITION.

1. CONSTRUCTION EXITS SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1.5-3.5 INCH STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANOUT OF ANY STRUCTURES TO TROP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES OR SITE ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.

2. RETROFIT STRUCTURES SHALL BE KEPT CLEAR OF TRASH AND DEBRIS. THIS WILL REQUIRE CONTINUOUS MONITORING AND MAINTENANCE, WHICH INCLUDES SEDIMENT REMOVAL WHEN ONE-THIRD OF THE SEDIMENT STORAGE CAPACITY HAS BEEN LOST. INDICATE THIS ELEVATION WITH A MARK ON THE OUTLET STRUCTURE OR A POST INSERTED IN THE POND.

3. SEDIMENT SHALL BE REMOVED FROM SILT FENCES ONCE IT HAS BEEN ACCUMULATED TO ONE-HALF THE ORIGINAL HEIGHT OF THE BARRIER. FILTER FABRIC SHALL BE REPLACED WHENEVER IT HAS DETERIORATED TO SUCH AN EXTENT THAT THE EFFECTIVENESS OF THE FABRIC IS REDUCED TO 80% OF ITS PROPERLY INSTALLED HEIGHT (APPROXIMATELY SIX MONTHS). LEAVE SILT FENCE IN PLACE UNTIL ALL DISTURBED AREAS ARE PERMANENTLY STABILIZED.

4. SEDIMENT SHALL BE REMOVED FROM TRAPS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE HEIGHT OF THE TRAP. SEDIMENT SHALL BE REMOVED FROM CURB INLET PROTECTION IMMEDIATELY. FOR EXCAVATED INLET SEDIMENT TRAPS, SEDIMENT SHALL BE REMOVED WHEN ON-HALF OF THE SEDIMENT STORAGE CAPACITY HAS BEEN LOST TO SEDIMENT ACCUMULATION.

5. SEDIMENT SHALL NOT BE WASHED INTO THE INLET. IT SHALL BE REMOVED FROM THE SEDIMENT TRAP AND DISPOSED OF AND STABILIZED SO THAT IT WILL NOT INTER THE INLET AGAIN.

6. WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN PERMANENTLY STABILIZED, ALL MATERIALS AND ANY SEDIMENT SHALL BE REMOVED AND EITHER SALVAGED OR DISPOSED OF PROPERLY. THE DISTURBED AREA SHALL BE BROUGHT TO PROPER GRADE, THEN SMOOTHED AND COMPACTED. APPROPRIATELY STABILIZE ALL DISTURBED AREAS AROUND THE INLET.

7. REPAIR ALL DAMAGES CAUSED TO TEMPORARY SEDIMENT BASINS BY SOIL EROSION OR CONSTRUCTION EQUIPMENT AT OR BEFORE THE END OF EACH WORKING DAY. SEDIMENT SHALL BE REMOVED FROM THE BASIN WHEN IT REACHES THE SPECIFIED DISTANCE BELOW THE TOP OF THE RISER. SEDIMENT SHALL NOT ENTER ADJACENT STREAMS OR DRAINAGE WAYS DURING SEDIMENT REMOVAL OR DISPOSAL. THE SEDIMENT SHALL NOT BE DEPOSITED DOWNSTREAM FROM THE EMBANKMENT ADJACENT TO A STREAM OR FLOODPLAIN.

8. INSPECT RIP RAP OUTLET STRUCTURES AFTER HEAVY RAINS TO SEE IF ANY EROSION AROUND OR BELOW THE RIP RAP HAS TAKEN PLACE OR IT STONES HAVE BEEN DISLODGED. IMMEDIATELY MAKE ALL NEEDED REPAIRS TO PREVENT FURTHER DAMAGE.

9. ROUGHENED AREAS SHALL BE SEEDED AND MULCHED AS SOON AS POSSIBLE TO OBTAIN OPTIMUM SEED GERMINATION AND SEEDING GROWTH.

10. MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF DISTURBANCE. MULCH CAN BE USED AS A SINGULAR EROSION CONTROL DEVICE FOR UP TO SIX MONTHS BUT IT SHALL BE APPLIED AT THE APPROPRIATE DEPTH, DEPENDING ON THE MATERIAL USED, ANCHORED, AND HAVE A CONTINUOUS 90% COVER OR GREATER OF THE SOIL SURFACE. MAINTENANCE SHALL BE REQUIRED TO MAINTAIN APPROPRIATE DEPTH AND 90% COVER. TEMPORARY VEGETATION MAY BE EMPLOYED INSTEAD OF MULCH IF THE AREA WILL REMAIN UNDISTURBED FOR LESS THAN SIX MONTHS. IF AN AREA WILL REMAIN UNDISTURBED FOR GREATER THAN SIX MONTHS, PERMANENT VEGETATIVE TECHNIQUES SHALL BE EMPLOYED.

11. PERMANENT VEGETATION SHALL BE APPLIED IMMEDIATELY TO ROUGH GRADED AREAS THAT WILL BE UNDISTURBED FOR LONGER THAN SIX MONTHS. THIS PRACTICE SHALL BE APPLIED IMMEDIATELY TO ALL AREAS AT FINAL GRADE. FINAL STABILIZATION MEANS THAT ALL SOIL DISTURBING ACTIVITIES AT THE SITE HAVE BEEN COMPLETED AND THAT FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES, AT LEAST 70% OF THE SOIL SURFACE IS UNIFORMLY COVERED IN PERMANENT VEGETATION OR EQUIVALENT PERMANENT STABILIZATION MEASURES HAVE BEEN EMPLOYED. PERMANENT VEGETATION SHALL CONSIST OF: PLANTED TREES, SHRUBS, PERENNIAL VINES, A CROP OF PERENNIAL VEGETATION APPROPRIATE FOR THE REGIONS, SUCH THAT WITHIN THE GROWING SEASON 70% COVERAGE BY PERENNIAL VEGETATION SHALL BE ACHIEVED. FINAL STABILIZATION APPLIES TO EACH PHASE OF CONSTRUCTION. UNTIL THIS STANDARD IS SATISFIED AND PERMANENT CONTROL MEASURES AND FACILITIES ARE OPERATIONAL, INTERIM STABILIZATION MEASURES AND TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES SHALL NOT BE REMOVED.

THIS STANDARD IS SATISFIED AND PERMANENT CONTROL MEASURES AND FACILITIES ARE OPERATIONAL, INTERIM STABILIZATION MEASURES AND TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES SHALL NOT BE REMOVED.

GMC
6120 Powers Ferry Road NW, Suite 350
Atlanta, GA 30339
T 770.952.2481
GMCNETWORK.COM

ISSUE | DATE
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DRAWN BY: | LKR
CHECKED BY: |

PERROW PARK
JASPER, GA

LATL240013

EROSION CONTROL NOTES

C-503

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STORM WATER SAMPLING

SAMPLE ANALYSIS

STORM WATER SAMPLES ARE TO BE ANALYZED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40CFR PART 136 AND THE GUIDANCE DOCUMENT TITLES NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT EPA 833-B-92-001.

STORM WATER IS TO BE SAMPLED FOR NEPHELOMETRIC TURBIDITY UNITS (NTU) AT THE UPSTREAM AND DOWNSTREAM DRAINAGE STRUCTURE LOCATIONS INDICATED ON THE EROSION CONTROL PLANS. A DISCHARGE OF STORM WATER RUNOFF FROM DISTURBED AREAS WHERE BEST MANAGEMENT PRACTICES HAVE NOT BEEN PROPERLY DESIGNED, INSTALLED, AND MAINTAINED SHALL CONSTITUTE A SEPARATE VIOLATION FOR EACH DAY ON WHICH SUCH CONDITION RESULTS IN AN INCREASE IN THE TURBIDITY OF THE DISCHARGE EXCEEDING 25 NTU'S.

SAMPLE TYPE

ALL SAMPLING SHALL BE COLLECTED BY "GRAB SAMPLES" AND THE ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40CFR PART 136 (UNLESS OTHER TEST PROCEDURES HAVE BEEN APPROVED); THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001" AND GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE EPD.

PER NPDES PERMIT, GAR 100001 "SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES. SAMPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER. LARGE MOUTH, WELL-CLEANED AND RINSED GLASS OR PLASTIC JARS SHOULD BE USED TO COLLECTING SAMPLES. THE JARS SHOULD BE CLEANSED THOROUGHLY TO AVOID CONTAMINATION. MANUAL, AUTOMATIC OF RISING STAGE SAMPLING MAY BE UTILIZED.

SAMPLING POINTS

THERE IS ONE SAMPLING LOCATION. THE SAMPLING LOCATION(S) ARE SHOWN ON THE EROSION CONTROL SHEETS. PER NPDES PERMIT GAR 100001, FOR CONSTRUCTION ACTIVITIES THE PRIMARY PERMITTEE MUST COMPLETE ALL SAMPLING.

- IDEALLY THE SAMPLES SHOULD BE TAKEN FROM THE HORIZONTAL AND VERTICAL CENTER OF THE RECEIVING WATER(S) OR THE STORMWATER OUTFALL CHANNEL(S).
- CARE SHOULD BE TAKEN TO AVOID STIRRING THE BOTTOM SEDIMENTS IN THE RECEIVING WATER(S) OR IN THE OUTFALL STORMWATER CHANNEL.
- THE SAMPLING CONTAINER SHOULD BE HELD SO THAT THE OPENING FACES UPSTREAM.
- THE SAMPLINGS SHOULD BE KEPT FREE FROM FLOATING DEBRIS.
- PERMITTEES DO NOT HAVE TO SAMPLE SHEET FLOW THAT FLOWS ONTO UNDISTURBED NATURAL AREAS OR AREAS STABILIZED BY THE PROJECT.
- ALL SAMPLING PURSUANT TO THIS PERMIT MUST BE DONE IN SUCH A WAY (INCLUDING GENERALLY ACCEPTED SAMPLING METHODS, LOCATIONS, TIMING, AND FREQUENCY) AS TO ACCURATELY REFLECT WHETHER STORMWATER RUNOFF FROM THE CONSTRUCTION SITE IS IN COMPLIANCE WITH THE STANDARD SET FORTH IN PARTS III.D.3. OR III.D.4. OF THE NPDES PERMIT GAR 100001, WHICHEVER IS APPLICABLE

SAMPLING FREQUENCY

1. THE PRIMARY PERMITTEE MUST SAMPLE IN ACCORDANCE WITH THE PLAN AT LEAST ONCE FOR EACH RAINFALL EVENT DESCRIBED BELOW. FOR A QUALIFYING EVENT, THE PERMITTEE SHALL SAMPLE AT THE BEGINNING OF ANY STORM WATER DISCHARGE TO A MONITORED RECEIVING WATER AND/OR FROM A MONITORED OUTFALL LOCATION WITHIN FORTY-FIVE (45) MINUTES OR AS SOON AS POSSIBLE.

2. HOWEVER, WHERE MANUAL AND AUTOMATIC SAMPLING ARE IMPOSSIBLE (AS DEFINED IN THIS PERMIT), OR ARE BEYOND THE PERMITTEE'S CONTROL, THE PERMITTEE SHALL TAKE SAMPLES AS SOON AS POSSIBLE, BUT IN NO CASE MORE THAN TWELVE (12) HOURS AFTER THE BEGINNING OF THE STORM WATER DISCHARGE.

3. SAMPLING BY THE PERMITTEE SHALL OCCUR FOR THE FOLLOWING QUALIFYING EVENTS:

   A. FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORM WATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS PERMIT. AFTER ALL CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO COMPLETION OF MASS GRADING OPERATIONS, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE REPRESENTATIVE SAMPLING LOCATION;

   B. IN ADDITION TO (A) ABOVE, FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORM WATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS PERMIT EITHER 90 DAYS AFTER THE FIRST SAMPLING EVENT OR AFTER ALL MASS GRADING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO SUBMITTAL OF A NOT, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE REPRESENTATIVE SAMPLING LOCATION, WHICHEVER COMES FIRST;

   C. AT THE TIME OF SAMPLING PERFORMED PURSUANT TO (A) AND (B) ABOVE, IF BMPS IN ANY AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL ARE NOT PROPERLY DESIGNED, INSTALLED AND MAINTAINED, CORRECTIVE ACTION SHALL BE DEFINED AND IMPLEMENTED WITHIN TWO (2) BUSINESS DAYS, AND TURBIDITY SAMPLES SHALL BE TAKEN FROM DISCHARGES FROM THAT AREA OF THE SITE FOR EACH SUBSEQUENT RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH DURING NORMAL BUSINESS HOURS* UNTIL THE SELECTED TURBIDITY STANDARD IS ATTAINED, OR UNTIL POST-STORM EVENT INSPECTIONS DETERMINE THAT BMPS ARE PROPERLY DESIGNED, INSTALLED AND MAINTAINED;

   D. WHERE SAMPLING PURSUANT TO (A), (B) OR (C) ABOVE IS REQUIRED BUT NOT POSSIBLE (OR NOT REQUIRED BECAUSE THERE WAS NO DISCHARGE), THE PERMITTEE, IN ACCORDANCE WITH PART IV.D.4.A.(6), MUST INCLUDE A WRITTEN JUSTIFICATION IN THE INSPECTION REPORT OF WHY SAMPLING WAS NOT PERFORMED. PROVIDING THIS JUSTIFICATION DOES NOT RELIEVE THE PERMITTEE OF ANY SUBSEQUENT SAMPLING OBLIGATIONS UNDER (A), (B) OR (C) ABOVE.

   E. EXISTING CONSTRUCTION ACTIVITIES, I.E., THOSE THAT ARE OCCURRING ON OR BEFORE THE EFFECTIVE DATE OF THIS PERMIT, THAT HAVE MET THE SAMPLING REQUIRED BY (A) ABOVE SHALL SAMPLE IN ACCORDANCE WITH (B). THOSE EXISTING CONSTRUCTION ACTIVITIES THAT HAVE MET THE SAMPLING REQUIRED BY (B) ABOVE SHALL NOT BE REQUIRED TO CONDUCT ADDITIONAL SAMPLING OTHER THAN AS REQUIRED BY (C) ABOVE.

*NOTE THAT THE PERMITTEE MAY CHOOSE TO MEET THE REQUIREMENTS OF (A) AND (B) ABOVE BY COLLECTING TURBIDITY SAMPLES FROM ANY RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR MONITORING AT ANY TIME OF THE DAY OR WEEK.

REPORTING

1. THE APPLICABLE PERMITTEES ARE REQUIRED TO SUBMIT THE SAMPLING RESULTS TO THE EPD AT THE ADDRESS SHOWN IN PART II.C. BY THE FIFTEENTH DAY OF THE MONTH FOLLOWING THE REPORTING PERIOD. REPORTING PERIODS ARE MONTHS DURING WHICH SAMPLES ARE TAKEN IN ACCORDANCE WITH THIS PERMIT. SAMPLING RESULTS SHALL BE IN A CLEARLY LEGIBLE FORMAT. UPON WRITTEN NOTIFICATION, EPD MAY REQUIRE THE APPLICABLE PERMITTEE TO SUBMIT THE SAMPLING RESULTS ON A MORE FREQUENT BASIS. SAMPLING AND ANALYSIS OF ANY STORMWATER DISCHARGE(S) OR THE RECEIVING WATER(S) BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED IN A SIMILAR MANNER TO THE EPD. THE SAMPLING REPORTS MUST BE SIGNED IN ACCORDANCE WITH PART V.G.2. SAMPLING REPORTS MUST BE SUBMITTED TO EPD USING THE ELECTRONIC SUBMITTAL SERVICE PROVIDED BY EPD. SAMPLING REPORTS MUST BE SUBMITTED TO EPD UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI

2. ALL SAMPLING REPORTS SHALL INCLUDE THE FOLLOWING INFORMATION:

   a. THE RAINFALL AMOUNT, DATE, EXACT PLACE AND TIME OF SAMPLING OR MEASUREMENTS;
   b. THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE SAMPLING AND MEASUREMENTS;
   c. THE DATE(S) ANALYSES WERE PERFORMED;
   d. THE TIME(S) ANALYSES WERE INITIATED;
   e. THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE ANALYSES;
   f. REFERENCES AND WRITTEN PROCEDURES, WHEN AVAILABLE, FOR THE ANALYTICAL TECHNIQUES OR METHODS USED;
   g. THE RESULTS OF SUCH ANALYSES, INCLUDING THE BENCH SHEETS, INSTRUMENT READOUTS, COMPUTER DISKS OR TAPES, ETC USED TO DETERMINE THESE RESULTS.
   h. RESULTS WHICH EXCEED 1000 NTU SHALL BE REPORTED AS "EXCEEDS 1000 NTU;" AND
   i. CERTIFICATION STATEMENT THAT SAMPLING WAS CONDUCTED AS PER THE PLAN.

3. ALL WRITTEN CORRESPONDENCE REQUIRED BY THIS PERMIT SHALL BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL (OR SIMILAR SERVICE) TO THE APPROPRIATE DISTRICT OFFICE OF THE EPD ACCORDING TO THE SCHEDULE IN APPENDIX A OF THIS PERMIT. THE PERMITTEE SHALL RETAIN A COPY OF THE PROOF OF SUBMITTAL AT THE CONSTRUCTION SITE OR THE PROOF OF SUBMITTAL SHALL BE READILY AVAILABLE AT A DESIGNATED LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.

IF NO QUALIFYING EVENTS OCCURRED WITHIN A MONTHLY MONITORING PERIOD, A REPORT MUST BE SUBMITTED STATING SUCH. ADDRESSES ARE PROVIDED BELOW:

GOVERNING AGENCY:
CITY OF JASPER
MARY ELIZABETH BURGESS
CITY DEVELOPMENT DIRECTOR
MBURGESS@JASPER-GA.US
706-692-9100

SWCD LIMESTONE VALLEY
EPD DISTRICT OFFICE: MOUNTAIN DISTRICT - CARTERSVILLE

OWNER:
CITY OF JASPER
200 BURNT MOUNTAIN ROAD
JASPER, GA 30143

RETENTION OF RECORDS

1. THE PRIMARY PERMITTEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI:

   a. A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD;
   b. A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THIS PERMIT;
   c. THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART IV.A.5. OF THIS PERMIT;
   d. A COPY OF ALL SAMPLING INFORMATION, RESULTS, AND REPORTS REQUIRED BY THIS PERMIT;
   e. A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.A. OF THIS PERMIT;
   f. A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART III.D.2. OF THIS PERMIT; AND
   g. DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.A.(2). OF THIS PERMIT.

2. COPIES OF ALL NOTICES OF INTENT, NOTICES OF TERMINATION, INSPECTION REPORTS, SAMPLING REPORTS (INCLUDING ALL CALIBRATION AND MAINTENANCE RECORDS AND ALL ORIGINAL STRIP CHART RECORDINGS FOR CONTINUOUS MONITORING INSTRUMENTATION) OR OTHER REPORTS REQUESTED BY THE EPD, EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS, RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THIS PERMIT AND ALL OTHER RECORDS REQUIRED BY THIS PERMIT SHALL BE RETAINED BY THE PERMITTEE WHO EITHER PRODUCED OR USED IT FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE THAT THE NOT IS SUBMITTED IN ACCORDANCE WITH PART VI. OF THIS PERMIT. THESE RECORDS MUST BE MAINTAINED AT THE PERMITTEE'S PRIMARY PLACE OF BUSINESS OR AT A DESIGNATED ALTERNATIVE LOCATION ONCE THE CONSTRUCTION ACTIVITY HAS CEASED AT THE PERMITTED SITE. THIS PERIOD MAY BE EXTENDED BY REQUEST OF THE EPD AT ANY TIME UPON WRITTEN NOTIFICATION TO THE PERMITTEE.

COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS

THE CONTRACTOR WILL OBTAIN COPIES OF ANY AND ALL LOCAL AND STATE REGULATIONS THAT ARE APPLICABLE TO STORM WATER MANAGEMENT, EROSION CONTROL, AND POLLUTION MINIMIZATION AT THIS JOB SITE AND WILL COMPLY FULLY WITH SUCH REGULATIONS. THE CONTRACTOR WILL SUBMIT WRITTEN EVIDENCE OF SUCH COMPLIANCE IF REQUESTED BY THE OWNER OR ANY AGENT OF A REGULATORY BODY. THE CONTRACTOR WILL COMPLY WITH ALL CONDITIONS OF ANY AND ALL LOCAL, STATE AND FEDERAL AGENCIES HAVE GOVERNING AUTHORITY, INCLUDING THE CONDITIONS RELATED TO MAINTAINING THE ESPCP AND EVIDENCE OF COMPLIANCE WITH THE ESPCP AT THE JOB SITE AND ALLOWING REGULATORY PERSONNEL ACCESS TO THE JOB SITE AND TO RECORDS IN ORDER TO DETERMINE COMPLIANCE.

GENERAL

THIS VEGETATIVE PLAN WILL BE CARRIED OUT ON ROAD CUT AND FILL SLOPES, SHOULDERS AND CRITICAL AREAS CREATED BY CONSTRUCTION. SEEDING WILL BE DONE AS SOON AS CONSTRUCTION IN AN AREA IS COMPLETED. PLANTINGS WILL BE MADE TO CONTROL EROSION, TO REDUCE DAMAGES FROM SEDIMENT AND RUNOFF TO DOWNSTREAM AREAS AND TO IMPROVE THE SAFETY AND BEAUTY OF THE DEVELOPMENT AREA.

CONVENTIONAL SEEDING EQUIPMENT

GRADE, SHAPE AND SMOOTH WHERE NEEDED TO PROVIDE FOR SAFE EQUIPMENT OPERATION AT SEEDING TIME AND FOR MAINTENANCE PURPOSES. THE LIME AND FERTILIZER IN DRY FORM WILL BE SPREAD UNIFORMLY OVER THE AREA IMMEDIATELY BEFORE SEEDBED PREPARATION. A SEEDBED WILL BE PREPARED BY SCARIFYING TO A DEPTH OF 1 TO 4 INCHES AS DETERMINED ON SITE. THE SEEDBED MUST BE WELL PULVERIZED, SMOOTHED AND FIRMED. SEEDING WILL BE DONE WITH CULTIPACKER-SEEDER, DRILL, ROTARY SEEDER OR OTHER MECHANICAL OR HAND SEEDER. SEED WILL BE DISTRIBUTED UNIFORMLY OVER A FRESHLY PREPARED SEEDBED AND COVERED LIGHTLY, WITHIN 24 HOURS AFTER SEEDING, STRAW OR HAY MULCH WILL BE SPREAD UNIFORMLY OVER THE AREA, LEAVING LESS THAN 10 PERCENT OF THE GROUND SURFACE EXPOSED. MULCH WILL BE SPREAD WITH BLOWER-TYPE MULCH EQUIPMENT OR BY HAND AND ANCHORED IMMEDIATELY AT IT IS SPREAD. A DISK HARROW WITH THE DISK SET OR A SPECIAL PACKER DISK MAY BE USED TO PRESS THE MULCH INTO THE SOIL. THE APPLICATION RATES ARE AS SHOWN IN THE DETAILS.

GENERAL NOTES:

1. "THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN WILL INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPS WITHIN SEVEN DAYS AFTER INSTALLATION."
2. "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."
3. "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."
4. "WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT."
5. "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."
6. "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."
7. "ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING."
8. CONSTRUCTION AND BUILDING MATERIALS OR PRODUCTS WILL BE COVERED WITH TARP MATERIAL, OR SIMILAR, TO PROTECT THEM FROM AMBIENT WEATHER CONDITIONS AS NECESSARY.
9. AFTER CONSTRUCTION, EROSION AND SEDIMENTATION WILL BE MANAGED BY STABILIZED LOT CONSISTING OF PAVED DRIVES, GRASSING, LANDSCAPING, AND RECREATION FACILITIES.
10. MINIMIZING WIND EROSION AND CONTROLLING DUST WILL BE ACCOMPLISHED BY ONE OR MORE OF THE FOLLOWING METHODS:
    A. COVERING 30% OR MORE OF THE SOIL SURFACE WITH NON-ERODIBLE MATERIAL
    B. ROUGHENING THE SOIL TO PRODUCE RIDGES PERPENDICULAR TO THE PREVAILING WIND
    C. FREQUENT WATERING OF EXCAVATION AND FILL AREAS
    D. PROVIDING GRAVEL OR PAVING AT ENTRANCE/ EXIT DRIVES
11. EROSION CONTROL AND TREE PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
12. NO ACTIVITY SHALL BE CONDUCTED WITHIN THE DELINEATED STREAM BUFFER (IF ANY) WITHOUT PROPER VARIANCES FROM EPD AND/OR LOCAL ISSUING AUTHORITY.
13. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES WILL BE INSTALLED IF DEEMED NECESSARY BY THE ONSITE INSPECTOR.
14. EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES TO BE INSPECTED DAILY
15. CUT SLOPES ARE NOT TO EXCEED "2H:1V" FILL SLOPES ARE NOT TO EXCEED 2H:1V
16. INSPECTIONS BY QUALIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITTEE AND THE ASSOCIATED RECORDS SHALL BE KEPT ON SITE IN COMPLIANCE WITH GAR 100001.

APPENDIX B RATIONAL

Waters Supporting Warm Water Fisheries

Site Size, acres	Surface Water Drainage Area, square miles							
	0-4.99	5-9.99	10-24.99	25-49.99	50-99.99	100-249.99	250-499.99	500+
1.00-10	75	150	200	400	750	750	750	750
10.01-25	50	100	100	200	300	500	750	750
25.01-50	50	50	100	100	200	300	750	750
50.01-100	50	50	50	100	100	150	300	600
100.01+	50	50	50	50	50	100	200	100

ESPC CHECKLIST:

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
STAND ALONE CONSTRUCTION PROJECTS GAR100001

SWCD: LIMESTONE VALLEY

Project Name: JASPER PERROW PARK **Address: PARCELS JA12 011 & JA12 012**
Local Issuing Authority: CITY OF JASPER **Date on Plans: APRIL 18, 2025**
Name & Email of person filling out checklist: LAUREN RAINEY; LAUREN.RAINEY@GMCNETWORK.COM

Plan Page #	Included Y/N	TO BE SHOWN ON ES&PC PLAN
C-504	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. **Permit IV.D.1. pg 27**
ALL	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. The Level II certification must be issued to the Design Professional, **after completion of a GSWCC approved course**, and whose signature and seal are on the Plan.
N/A	N/A	3. Limits of disturbance shall be **less 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 the GAEPD approval letter and completed Appendix 1 of this checklist with at least 4 of the chosen BMPs. * A copy of the written approval by GAEPD must be attached to the Plan for the Plan to be reviewed. **Permit IV.D.3. pg 28**
C-601	Y	4. The name and phone number of the 24-hour contact responsible for erosion, sedimentation and pollution controls.
C-601	Y	5. Provide the name, address, email address, and phone number of Primary Permittee.
C-601	Y	6. Note total and disturbed acreages of the project or phase under construction.
C-601	Y	7. Provide the GPS location of the construction exit for the site. Give the Latitude and Longitude in decimal degrees.
ALL	Y	8. Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
C-601	Y	9. Descriptions of the nature of construction activity and existing site conditions.
C-501	Y	10. Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
C-503	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.
C-502	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 20** of the permit.
C-502	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 20** of the permit. *
C-504	Y	14. Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect **and certify** the installation of the initial sediment storage requirements and perimeter control BMPs within 7 days after installation." *
C-504	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.
C-504	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." *
C-504	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." *
C-504	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."
C-504	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."
C-504	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."
C-504	Y	22. Any construction activity which discharges storm water into a Biota 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 of this checklist with at least 4 of the chosen 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 Biota 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. *
C-901	Y	24. BMPs for concrete washdown of bools, concrete mixer chutes, hoppers and the rear of the vehicles. Include statement that washout of the drum at the construction site is prohibited. *
C-503	Y	25. Provide BMPs for the remediation of all petroleum spills and leaks.
C-502	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. *
C-504	Y	27. Description of practices to provide cover for building materials and building products on site. *
C-502	Y	28. Description of the practices that will be used to reduce the pollutants in storm water discharges. *
C-501	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, grading, infrastructure, temporary and final stabilization).
C-503	Y	30. Provide complete requirements of Inspections and record keeping by the Primary Permittee. *
C-504	Y	31. Provide complete requirements of Sampling Frequency and Reporting of sampling results. *
C-504	Y	32. Provide complete details for Retention of Records as per **Part IV.F.** of the permit. *
C-504	Y	33. Description of analytical methods to be used to collect and analyze the samples from each location. *
C-504	Y	34. Appendix B rationale for NTU values at all outfall sampling points where applicable. *
C-601	Y	35. Delineate all sampling locations on **all phases of** the Plan, and perennial and intermittent streams and other water bodies into which storm water is discharged. *
C-502	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 sediment storage requirements and initial perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the Plan may combine all BMPs into a single phase plan. *
ALL	Y	37. Graphic scale and North arrow.
ALL	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% Rolling 2 - 8% Steep 8% +	0.5 or 1 1 or 2 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). 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. Refer to Appendix A-2 of the Manual for Erosion & Sediment Control in Georgia 2016 Edition. *
C-002	Y	41. Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to State Waters and any additional buffers as required by the Local Issuing Authority. Clearly note and delineate all areas of impact.
C-002	Y	42. Delineation of all State Waters and wetlands located on or within 200 feet of the project site.
C-601	Y	43. Delineation and acreage of contributing drainage basins on the project site.
NR REPORT	Y	44. Provide hydrology study and maps of drainage basins for both the pre- and post-developed conditions. *
C-601	Y	45. Estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed. **For solar farm projects, post-construction impervious area shall be calculated as 70% of total solar panel square footage.**
N/A	N/A	46. Storm drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate at all storm water discharge points.
C-501	Y	47. Soil series for the project site and their delineation.
C-601-C-602	Y	48. The limits of disturbance for each phase of construction.
C-601	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 must be included for structural BMPs and all calculations used by the design professional to obtain the required sediment storage 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.
C-601-C-603	Y	50. Location 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.
DETAILS	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.
C-601-C-603	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 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, 2025

APPENDIX 1
THE ES&PC PLAN MUST INCLUDE AT LEAST FOUR (4) OF THE FOLLOWING BMPS FOR THOSE AREAS OF THE SITE WHICH DISCHARGE TO AN IMPAIRED STREAM SEGMENT OR FOR SITES WHICH EPD HAS APPROVED IN WRITING A REQUEST TO DISTURB 50 ACRES OR MORE AT ANY ONE TIME.

The four items chosen must be appropriate for the site conditions.

Plan Page #	Included Y/N	
		a. During construction activities, double the width of the 25-foot undisturbed vegetated buffer along all State Waters requiring a buffer and the 50-foot undisturbed vegetated buffer along all State Waters classified as "trout streams" requiring a buffer. During construction activities, EPD will not grant variances to any such buffers that are increased in width.
		b. Increase all temporary sediment basins and retrofitted storm water management basins to provide sediment storage of at least 3600 cubic feet (134 cubic yards) per acre drained.
		c. Use **baffles** in all temporary sediment basins and retrofitted storm water management basins to at least double the conventional flow path length to the outlet structure.
C-601-C-603	Y	d. A large sign (minimum 4 feet x 8 feet) must be posted on site by the actual start date of construction. The sign must be visible from a public roadway. The sign must identify the following: (1) construction site, (2) the permittee(s), (3) the contact person(s) and telephone number(s), and (4) the permittee-hosted website where the Plan can be viewed and must be provided on the submitted NOI. The sign must remain on site and the Plan must be available on the provided website until a NOT has been submitted.
C-503	Y	e. Use **tackifiers** and/or mulch to stabilize areas left disturbed for more than seven (7) calendar days in accordance with **Part III. D.1.** of the current NPDES Permits.
		f. Conduct turbidity sampling after every rain event of 0.5 inch or greater within any 24-hour period, recognizing the exceptions specified in **Part IV.D.4.d.** of the current NPDES Permits.
		g. Comply with the applicable end-of-pipe turbidity effluent limit, without the "BMP defense" as provided for in O.C.G.A. 12-7-6 (a)(1).
		h. Reduce the total planned site disturbance to less than 50% impervious surfaces (excluding any State-mandated bu

12TH DISTRICT

13TH DISTRICT

L.L. 17

REQ'D TEMPORARY CONSTRUCTION ENTRANCE
NORTHING:34.467749
EASTING:-84.428347

REQ'D 4'X8' SIGN IDENTIFYING THE FOLLOWING:

1. CONSTRUCTION SITE
2. PERMITTEE
3. CONTACT PERSON & TELEPHONE NUMBER
4. PERMITTEE-HOSTED WEBSITE WHERE PLAN CAN BE VIEWED & MUSTED BE SUBMITED ON THE NOI

EAST SPRING STREET
VARIABLE PUBLIC RIGHT-OF-WAY
REF., PB:ZZ', PG:II

REQ'D TEMPORARY CONSTRUCTION ENTRANCE
NORTHING:34.467546
EASTING:-84.428793

TYPE-NS
SINGLE ROW SILT FENCE

TYPE-NS
SINGLE ROW SILT FENCE

LIMITS OF DISTURBANCE

LIMITS OF DISTURBANCE

TYPE-NS
SINGLE ROW SILT FENCE

SAMPLING LOCATION

LIMITS OF DISTURBANCE

TYPE-NS
SINGLE ROW SILT FENCE

SOUTH MAIN STREET
APPARENT 65 +/- PUBLIC RIGHT-OF-WAY

Ds1
Du

EXISTING USE: HOSPITAL/VACANT LOT
PROPOSED USE: AMPHITHEATER PARK FACILITY

NARRATIVE POLLUTION PREVENTION PRACTICES:

THE FOLLOWING ARE POTENTIAL SOURCES OF STORM WATER POLLUTION EXPECTED TO BE PRESENT ON THE SITE AND AN EXPLANATION OF HOW THE POLLUTANTS WILL BE MINIMIZED IN THE STORM WATER DISCHARGES:

- RUNOFF FROM UNDISTURBED AREAS TO BE MINIMIZED THROUGH THE INSTALLATION OF SILT FENCE, INLET PROTECTION AND CONSTRUCTION OF THE RETROFIT SEDIMENT BASIN.
- CONSTRUCTION VEHICLES TRACKING SEDIMENT OFF-SITE TO BE MINIMIZED THROUGH USE OF THE TIRE WASH AREA AND CONSTRUCTION EXIT.
- CONCRETE FROM TRUCKS TO BE MINIMIZED THROUGH USE OF THE CONCRETE WASHDOWN AREA.

24 HOUR EMERGENCY CONTACT:
NAME: JOSH DAVIS
COMPANY: CITY OF JASPER
PHONE: 706-301-8554

PRIMARY PERMITTEE AND OWNER:
NAME:THE CITY OF JASPER
ADDRESS:200 BURNT MOUNTAIN ROAD
JASPER, GA 30143
PHONE:706-692-9100
EMAIL: KGOLDENER@JASPER-GA.US

SITE ACREAGE: ± 3.42 AC

TOTAL DISTURBED AREA: ± 2.90 AC

SEDIMENT STORAGE WRITTEN RATIONALE:

SEDIMENT STORAGE IS PROVIDED BY THE UTILIZATION OF INLET SEDIMENT TRAPS, SEDIMENT TRAPS,, AND SILT FENCE WHERE APPROPRIATE.

PRE DEVELOPMENT CN: 69

POST DEVELOPMENT CN: 69

N

0 20' 40'
Scale: 1" = 20'

GMC
6120 Powers Ferry Road NW, Suite 350
Atlanta, GA 30339
T 770.952.2481
GMCNETWORK.COM

ISSUE | DATE
BID SET | 2025.05.22

DRAWN BY: LKR
CHECKED BY: LKR

PERROW PARK
JASPER, GA

LATL240013

INITIAL EROSION CONTROL PLAN

C-601

DRAWING FILE: T:\1 Projects\GA\Jasper\LATL240013 - Jasper Perrow Park\00 DWG\01 PLANS\C-600 ESPC PLANS.dwg
PLOTTED: May 21, 2025 - 10:45am

EXCAVATED INLET SEDIMENT TRAP

PROJECT: Jasper Perrow Park

Outlet Structure	Drainage Area (AC)	Required Sediment Storage (CY)	Required Sediment Storage (CF)	Excavation Depth (FT)	Slope of Sides	Required Surface Area (SF)	Shape	Length (FT)	Width (FT)	Actual Surface Area (SF)
1	0.26	17.5	472	3.0	2:1	157	CIRCULAR	13	13	157
2	0.05	3.1	85	3.0	2:1	28	CIRCULAR	5	5	28
3	0.07	5.0	134	3.0	2:1	45	CIRCULAR	7	7	45
4	0.22	14.6	394	3.0	2:1	131	CIRCULAR	11	11	131
5	0.20	13.3	358	3.0	2:1	119	CIRCULAR	11	11	119
6	0.15	9.8	266	3.0	2:1	89	CIRCULAR	9	9	89
7	0.01	0.8	22	3.0	2:1	7	CIRCULAR	3	3	7

OUTLET RIP-RAP PAD CALCULATIONS

PROJECT: Jasper Perrow Park RAINFALL DATA: Jasper, GA
DESIGN STORM = 25 year

Outlet Structure	Pipe Dia. (in)	Discharge (cfs)	Capacity (cfs)	Depth (in)	Manning's n	Pipe Slope (%)	Velocity (ft/s)	Froude Number	D_{50} (in)	L_a (Min TW) (ft)	W_1 (ft)	W_2 (ft)	D_{max} (in)	Thickness (in)	Other
2B-HW	18	2.04	11.38	5.14	0.012	7.77%	11.89	3.20	6	9	5	11	9	14	NONE
6A-HW	18	3.80	25.45	4.61	0.012	2.00%	7.19	2.04	6	9	5	11	9	14	NONE

EXISTING USE: HOSPITAL/VACANT LOT
PROPOSED USE: AMPHITHEATER PARK FACILITY

NARRATIVE POLLUTION PREVENTION PRACTICES:

THE FOLLOWING ARE POTENTIAL SOURCES OF STORM WATER POLLUTION EXPECTED TO BE PRESENT ON THE SITE AND AN EXPLANATION OF HOW THE POLLUTANTS WILL BE MINIMIZED IN THE STORM WATER DISCHARGES:

- RUNOFF FROM UNDISTURBED AREAS TO BE MINIMIZED THROUGH THE INSTALLATION OF SILT FENCE, INLET PROTECTION AND CONSTRUCTION OF THE RETROFIT SEDIMENT BASIN.
- CONSTRUCTION VEHICLES TRACKING SEDIMENT OFF-SITE TO BE MINIMIZED THROUGH USE OF THE TIRE WASH AREA AND CONSTRUCTION EXIT.
- CONCRETE FROM TRUCKS TO BE MINIMIZED THROUGH USE OF THE CONCRETE WASHDOWN AREA.

24 HOUR EMERGENCY CONTACT:
NAME: JOSH DAVIS
COMPANY: CITY OF JASPER
PHONE: 706-301-8554

PRIMARY PERMITTEE AND OWNER:
NAME:THE CITY OF JASPER
ADDRESS:200 BURNT MOUNTAIN ROAD
JASPER, GA 30143
PHONE:706-692-9100
EMAIL: KGOLDENER@JASPER-GA.US

SITE ACREAGE: ± 3.42 AC

TOTAL DISTURBED AREA: ± 2.90 AC

SEDIMENT STORAGE WRITTEN RATIONALE:

SEDIMENT STORAGE IS PROVIDED BY THE UTILIZATION OF INLET SEDIMENT TRAPS, SEDIMENT TRAPS, AND SILT FENCE WHERE APPROPRIATE.

PRE DEVELOPMENT CN: 69

POST DEVELOPMENT CN: 69

REQ'D TEMPORARY CONSTRUCTION ENTRANCE NORTHING:34.467749 EASTING:-84.428347

REQ'D 4'X8' SIGN IDENTIFYING THE FOLLOWING:
1. CONSTRUCTION SITE
2. PERMITTEE
3. CONTACT PERSON & TELEPHONE NUMBER
4. PERMITTEE-HOSTED WEBSITE WHERE PLAN CAN BE VIEWED & MUSTED BE SUBMITED ON THE NOI

REQ'D TEMPORARY CONSTRUCTION ENTRANCE NORTHING:34.467546 EASTING:-84.428793

EAST SPRING STREET
VARIABLE PUBLIC RIGHT-OF-WAY
REF. PB:ZZ, PG:II

SOUTH MAIN STREET
APPARENT 63 +/- PUBLIC RIGHT-OF-WAY

TYPE-NS SINGLE ROW SILT FENCE

LIMITS OF DISTURBANCE

SAMPLING LOCATION

1-DWSI, 2-OT, 2A-JB, 2B-HW, 3-SWSI, 4-GI, 5-GI, 6-GI, 6A-HW, 9-OS, 9A-HW

N

0 20' 40'
Scale: 1" = 20'

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Atlanta, GA 30339
T 770.952.2481
GMCNETWORK.COM

ISSUE	DATE
BID SET	2025.05.22

DRAWN BY: LKR
CHECKED BY: LKR

PERROW PARK
JASPER, GA

LATL240013

INTERMEDIATE EROSION CONTROL PLAN

C-602

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PLOTTED: May 21, 2025 - 3:45pm

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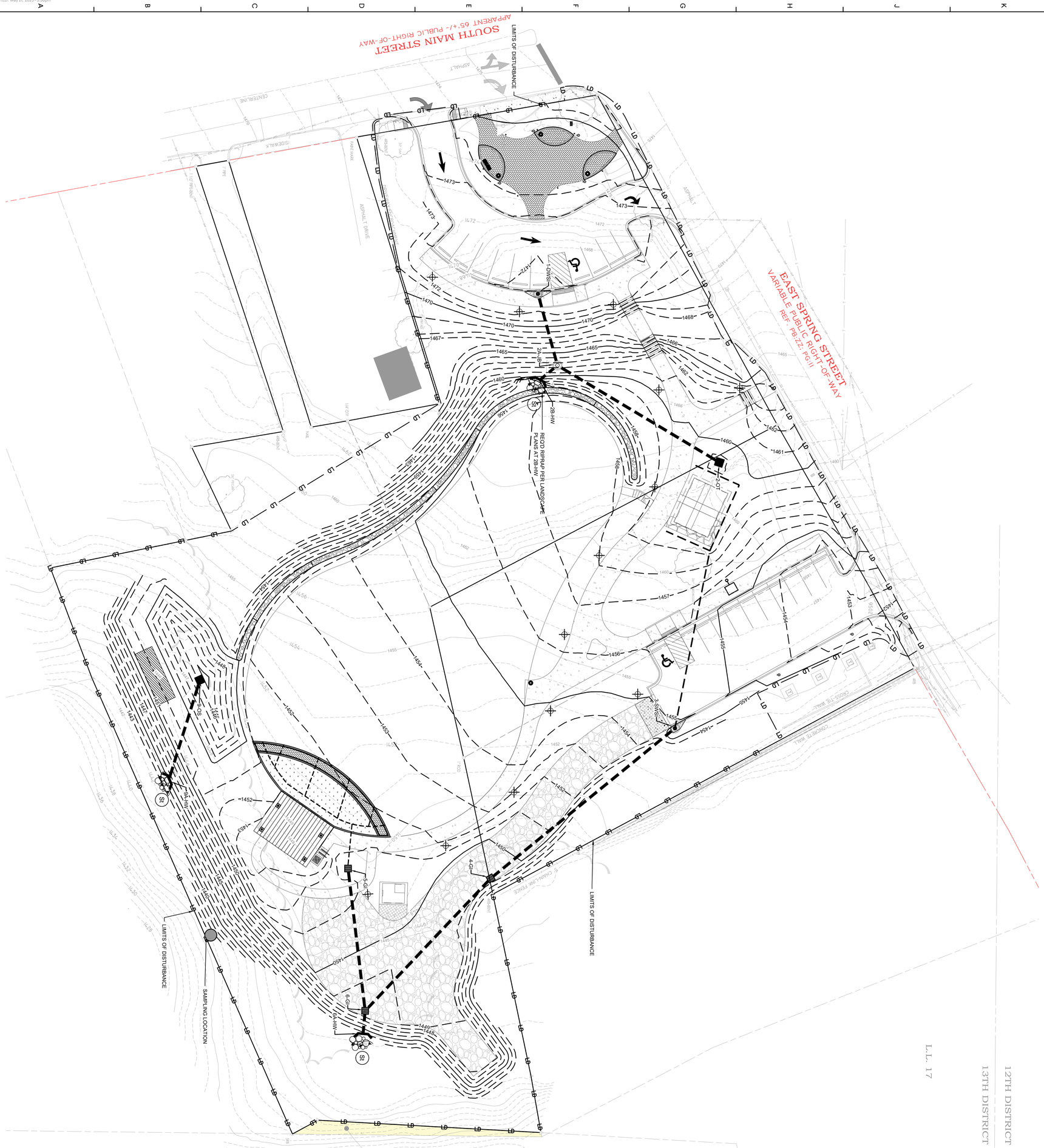
PLOTTED: May 21, 2025 - 3:56pm



EXISTING USE: HOSPITAL/VACANT LOT
PROPOSED USE: AMPHITHEATER/PARK FACILITY

NARRATIVE POLLUTION PREVENTION PRACTICES:

THE FOLLOWING ARE POTENTIAL SOURCES OF STORM WATER POLLUTION EXPECTED TO BE PRESENT ON THIS SITE. THE PROPERTY OWNER'S PLAN TO REDUCE POLLUTANTS WILL BE MINIMIZED IN THE STORM WATER DISCHARGES:

- RUNOFF FROM UNDISTURBED AREAS TO BE MINIMIZED THROUGH THE INSTALLATION OF SILT FENCE, TREE PROTECTION AND CONSTRUCTION OF THE RETROFIT SEDIMENT BASIN.
- CONSTRUCTION VEHICLES TRACKING SEDIMENT OFF-SITE TO BE MINIMIZED THROUGH USE OF THE TIRE WASH AREA AND CONSTRUCTION EXIT.
- CONCRETE FROM TRUCKS TO BE MINIMIZED THROUGH USE OF THE CONCRETE WASHDOWN AREA.

24 HOUR EMERGENCY CONTACT:
NAME: JOSH DAVIS
COMPANY: CITY OF JASPER
PHONE: 706-301-8554

PRIMARY PERMITTEE AND OWNER
NAME: CITY OF JASPER
ADDRESS:200 BURNT MOUNTAIN ROAD
JASPER, GA 30143
PHONE: 706-692-2000
EMAIL: KGOLDENER@JASPER-GA.US

SITE ACREAGE: ± 3.42 AC

TOTAL DISTURBED AREA: ± 2.90 AC

SEDIMENT STORAGE WRITTEN RATIONALE:
SEDIMENT STORAGE IS PROVIDED BY THE UTILIZATION OF INLET SEDIMENT TRAPS, SEDIMENT TRAPS, AND SILT FENCE WHERE APPROPRIATE.

PRE DEVELOPMENT CN:	69
POST DEVELOPMENT CN:	69

FINAL EROSION CONTROL PLAN

C-603

PERROW PARK

JASPER, GA

LATL240013

ISSUE	DATE
BID SET	2025.05.22
DRAWN BY:	
CHECKED BY:	LKR

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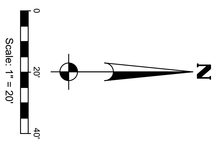

PRE DEVELOPMENT DRAINAGE PLAN

C-701

PERROW PARK

JASPER, GA

LATL240013

ISSUE	DATE
BID SET	2025.05.22
DRAWN BY:	
CHECKED BY:	LKR

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PLOTTED: May 21, 2025 - 3:43pm

SOUTH MAIN STREET
APPARENT 65'+/- PUBLIC RIGHT-OF-WAY

EAST SPRING STREET
VARIABLE PUBLIC RIGHT-OF-WAY
REF.: PB12, PG11

SSMH
T.E.=1468.95
I.E. IN=PLUGGED
I.E. OUT=1457.30

SSMH
T.E.=1453.38
I.E. IN=1450.43 (6" PVC)
I.E. IN=1443.48 (10" PVC)
I.E. IN=1443.43 (10" PVC)
I.E. OUT=1443.28 (12" PVC)

SQUARE PATCH IN ASPHALT

POST DEVELOPMENT DRAINAGE BASIN: A
DRAINAGE AREA: 3.02 ACRES
CN: 69
TC: 37.51 MIN

L.L. 17
12TH DISTRICT
13TH DISTRICT

Scale: 1" = 20'
0
20'
40'
N

POST DEVELOPMENT DRAINAGE PLAN

C-702

PERROW PARK

JASPER, GA

LATL240013

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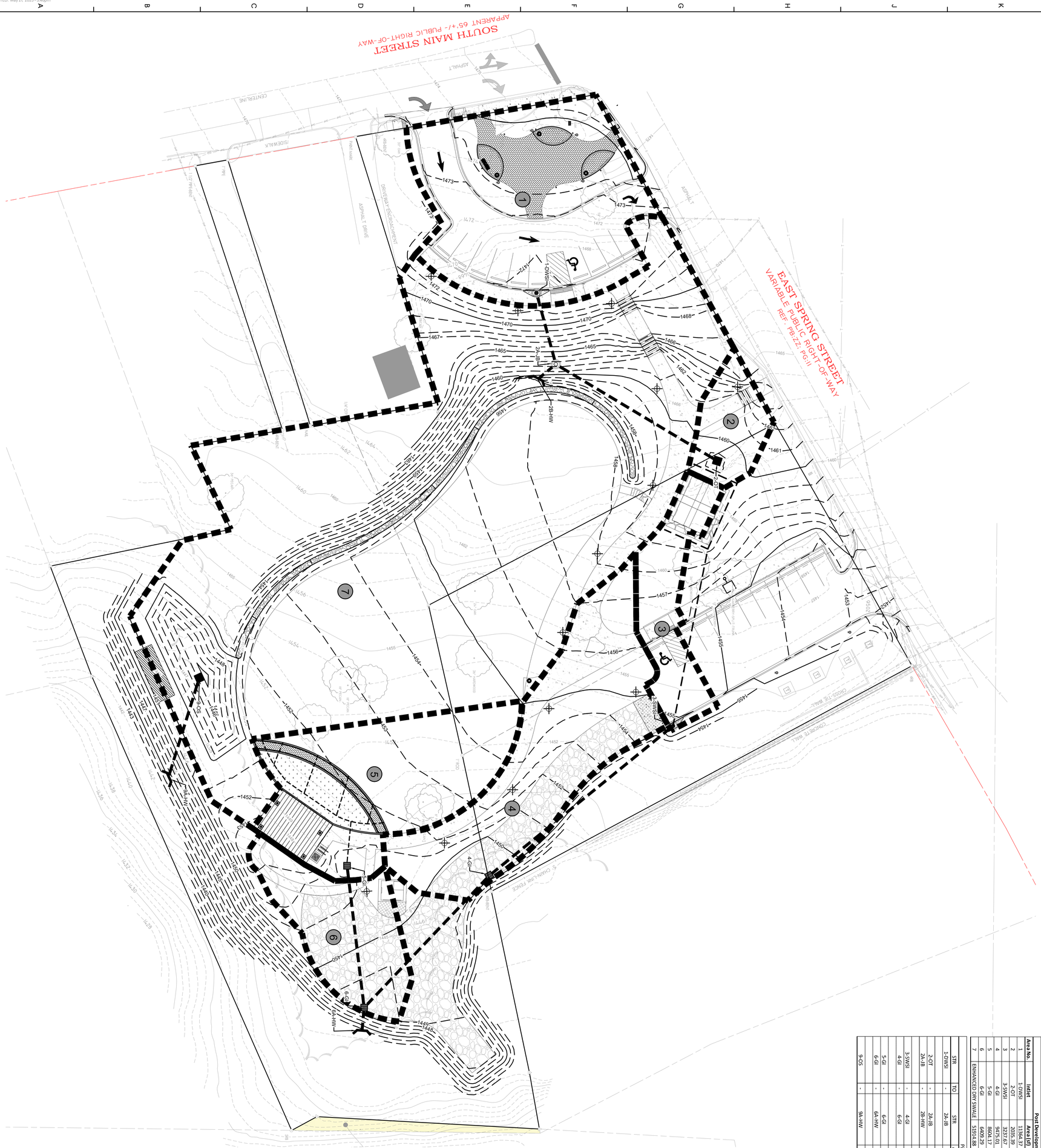

Area No.	Post Development Drainage Calculation - 25 Years Storm Event									
	Intlet	Area (sf)	Area (ac)	Cw	L	s	Tc	I	Q (cfs)
1	1-DWSI	11364.37	0.261	0.71	114.94	4.00	5.00	9.84	1.83
2	2-CI	2035.39	0.047	0.46	66.17	14.50	5.00	9.84	0.21
3	3-SWSI	3237.67	0.074	0.75	103.45	4.30	5.00	9.84	0.55
4	4-GI	8225.07	0.189	0.73	164.83	4.50	5.00	9.84	1.35
5	5-GI	8604.17	0.198	0.45	148.83	3.20	9.70	7.26	0.66
6	6-GI	6409.29	0.147	0.85	106.19	4.40	5.00	9.84	1.23
7	ENHANCED DRY SWALE	51914.88	1.192	0.35	420.71	3.70	17.98	5.49	2.29

Pipe Sizes - 25 Years Storm Event								
STR.	TO	STR.	Added Q	Total Q	Pipe	Dev. Slope, %	Min. Slope, %	Velocity (fps)
1-DWSI	-	2A-IB	1.83	1.83	18	8.00	0.03	1.03
2-CI	-	2A-IB	0.21	0.21	18	0.50	0.00	0.12
2A-IB	-	2B-HW	2.04	2.04	18	1.00	0.04	1.15
3-SWSI	-	4-GI	0.55	0.55	18	2.00	0.00	0.31
4-GI	-	6-GI	1.37	1.92	18	1.00	0.03	1.09
5-GI	-	6-GI	0.66	0.66	18	3.00	0.00	0.37
6-GI	-	6A-HW	1.23	3.80	18	5.00	0.13	2.15
9-OS	-	9A-HW	2.29	4.33	18	3.22	0.17	2.45

STORM SEWER DRAINAGE PLAN

C-703

PERROW PARK

JASPER, GA

LATL240013

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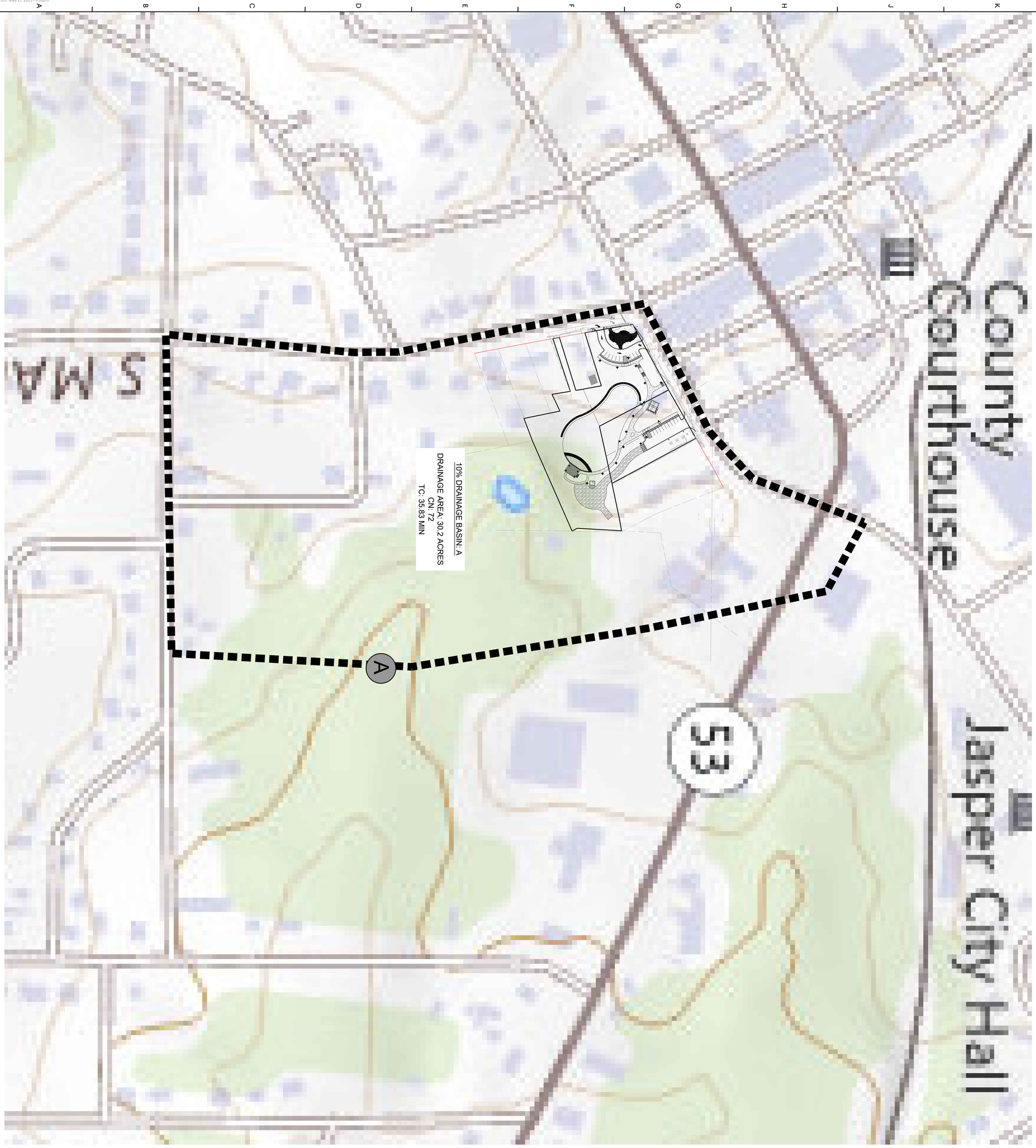

10% DRAINAGE MAP

C-704

PERROW PARK

JASPER, GA

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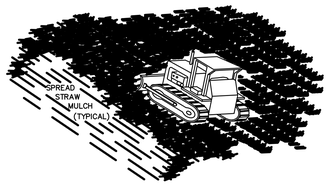

'TRACKING' WITH MACHINERY ON SANDY SOIL PROVIDES ROUGHENING WITHOUT UNDUE COMPACTION.

STRAW ANCHORING
N.T.S

NOTES:
1. ROUGHEN SLOPE WITH BULLDOZER.
2. BROADCAST SEED AND FERTILIZER.
3. SPREAD STRAW MULCH 3" (76mm) THICK. (1–1/2 to 2 TONS PER ACRE)
4. PUNCH STRAW MULCH INTO SLOPE BY RUNNING BULLDOZER UP AND DOWN SLOPE.

STRAW ANCHORING
N.T.S

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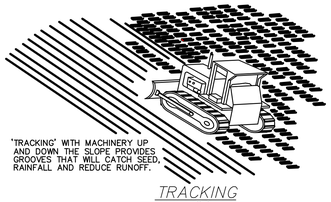
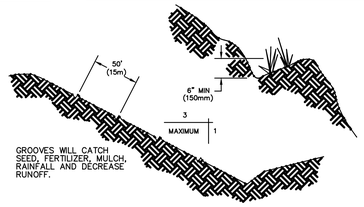
FILE: STRAWNCH



'TRACKING' WITH MACHINERY UP AND DOWN THE SLOPE PROVIDES GROOVES THAT WILL CATCH SEED, RAINFALL AND REDUCE RUNOFF.

TRACKING
N.T.S



CONTOUR FURROWS
N.T.S

SURFACE ROUGHENING
N.T.S

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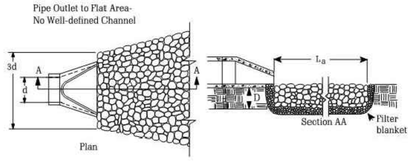
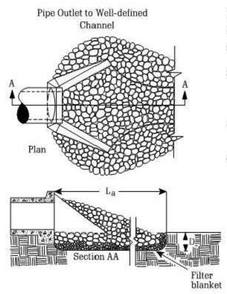
FILE: SRFROUGH





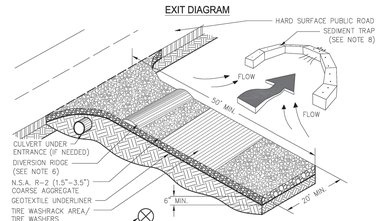
Notes
1. La is the length of the riprap apron.
2. D = 1.5 times the maximum stone diameter but not less than 6'.
3. In a well-defined channel extend the apron up the channel banks to an elevation of 6' above the maximum tailwater depth of to the top of the bank, whichever is less.
4. A filter blanket or filter fabric should be installed between the riprap and soil foundation.
5. See Sheet C7 for dimensions of riprap aprons

St STORM DRAIN OUTLET PROTECTION
N.T.S.

Figure 6-24.3

MAINTENANCE
The exit shall be maintained in a condition that will prevent tracking or flow of mud onto public rights-of-way. This may require periodic top dressing with 1.5-3.5 inch stone, as conditions demand, and repair and/or cleanout of any structures to trap sediment. All materials spilled, dropped, washed, or tracked from vehicles or site onto roadways or into storm drains must be removed immediately.

CRUSHED STONE CONSTRUCTION EXIT



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. 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.

CONSTRUCTION EXIT – CO
N.T.S

Cd

Stone Check Dams **Cd-S**

- Drainage area not to exceed 2 acres.
- Constructed of graded size 2”-10” stone.
- The center of the check dam should be at least 9” lower than the outer edges.
- The dam height should be a maximum of 2 ft from the center to the rim edge.
- Place a suitable geotextile between the graded stone and the soil base and abutments.

STONE CHECK DAM
SPACING BETWEEN CHECK DAMS

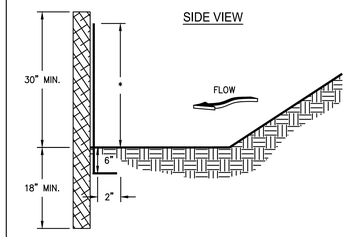
Figure 1. Stone Check Dam Spacing Requirements

Straw Bale Check Dams **Cd-Hb**

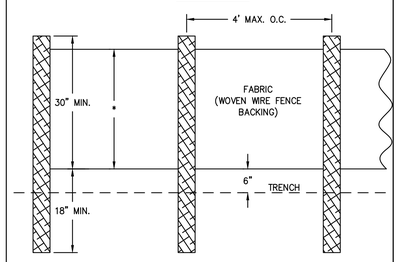
- Drainage area not to exceed 1 acre.
- Bales should be bound with wire or nylon string.
- Bales should be placed in rows with bale ends tightly abutting the adjacent bales.
- A trench shall be dug across the channel deep enough that the wide side of the 2nd bale is level with the ground.
- Drive the standard 2x2 stakes or #4 rebar through the bales into the ground 18”-24” for anchorage. The first stake in each bale should be driven toward a previsouly laid bale in order to force bales together.

SILT FENCE - TYPE SENSITIVE

SIDE VIEW



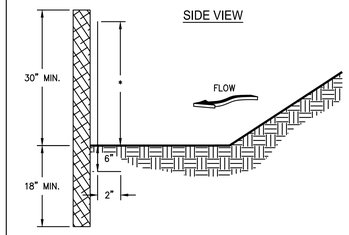
FRONT VIEW



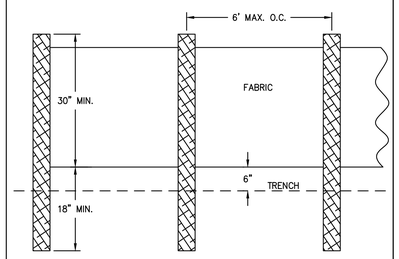
NOTES:
1. USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
2. HEIGHT (*) IS TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

SILT FENCE - TYPE NON-SENSITIVE

SIDE VIEW

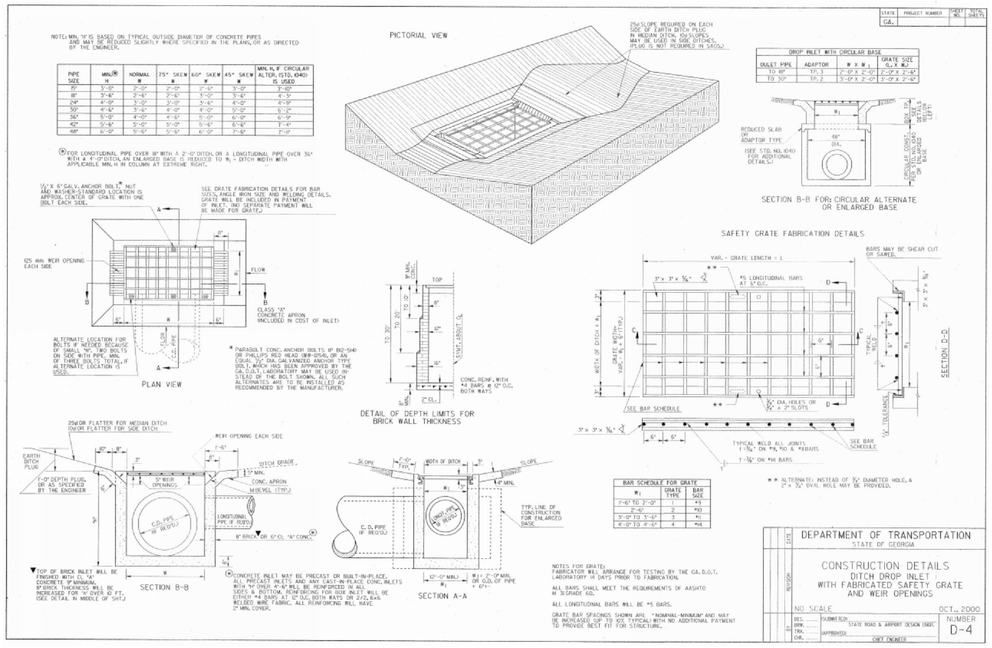


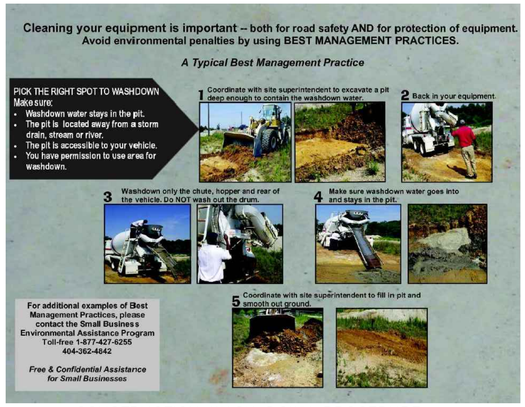
FRONT VIEW



NOTES:
1. USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
2. HEIGHT (*) IS TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

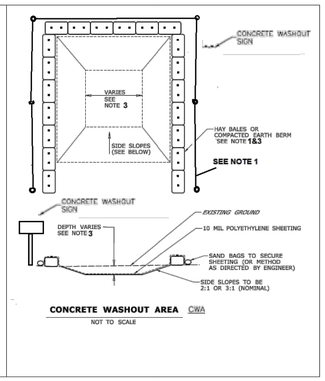
Sd1 SEDIMENT BARRIER
(Sd1–S) TYPE SENSITIVE
(Sd1–NS) TYPE NON–SENSITIVE





CONSTRUCTION WASH DOWN PROCEDURE
N.T.S

CONCRETE PUMP OUT/WASH OUT AREA NOTES
1. CONCRETE WASHOUT AREAS (CWAs) SHALL BE INSTALLED PRIOR TO THE FIRST CONCRETE DELIVERY TO THE SITE. THE CWAs SHALL BE ENTIRELY SELF-CONTAINED. CSAs SHALL BE INSTALLED WITH A SIGN CLEARLY INDICATING ITS PURPOSE. CWAs SHALL BE SURROUNDED WITH ORANGE SAFETY WARNING BARRIER FENCING.
2. THE CWAS SHALL BE LOCATED AT LEAST 50' FROM ANY WETLAND LINE, STORM DRAINS AND STORMWATER MANAGEMENT BASINS. THE CWAS SHALL BE UPSLOPE OF THE EROSION CONTROL BARRIER (ECB).
3. CWAS SHALL BE SIZED TO HAVE SUFFICIENT VOLUME TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS INCLUDING BUT NOT LIMITED TO ACTIVITIES ASSOCIATED WITH GROUT AND MORTAR.
4. SIGNS SHALL BE ERECTED AT THE CONSTRUCTION ENTRANCE OR ELSWHERE AS NEEDED TO CLEARLY INDICATE THE LOCATION OF THE CWAs TO OPERATORS OF CONCRETE DELIVERY TRUCKS AND PUMPING RIGS WHO HAVE ENTERED THE SITE.
5. CWAs SHALL BE INSPECTED AT LEAST ONCE A WEEK FOR STRUCTURAL INTEGRITY, ADEQUATE HOLDING CAPACITY AND FOR LEAKS, TEARS, OR OVERFLOWS. CWAs SHALL ALSO BE INSPECTED AFTER HEAVY RAINS. RESULTS OF CWAs INSPECTIONS ARE TO BE INCLUDED IN THE INSPECTION REPORTS REQUIRED BY THE STORMWATER PERMIT.
6. HARDENED CONCRETE SHALL BE REMOVED AND DISPOSED OF WHEN THE WASTE HAS ACCUMULATED TO HALF OF THE CWAs STORAGE CAPACITY AND AT THE COMPLETION OF ALL ACTIVITIES ASSOCIATED WITH CONCRETE, GROUT, AND MORTAR.
EPA DOCUMENTATION STATES THAT CONCRETE WASTE IS PERFECTLY ACCEPTABLE FOR LANDFILLS ONCE IT IS COMPLETELY SOLIDIFIED. DISPOSAL OF THE HARDENED CONCRETE WASTE SHALL BE DISPOSED OF IN A MANNER CONSISTENT WITH ALL APPLICABLE LAWS AND REGULATIONS.



CONCRETE WASHOUT AREA CWA
NOT TO SCALE

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PERROW PARK
JASPER, GA

LATL240013

DETAILS

C-901

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DEFINITION

Applying plant residues or other suitable materials, produced on the site if possible, to the soil surface.

CONDITIONS

Mulch or temporary grassing shall be applied to all exposed areas within 14 days of disturbance. Mulch can be used as a singular erosion control device for up to six months, but it shall be applied at the appropriate depth, depending on the material used, anchored, and have a continuous 90% cover or greater of the soil surface. Maintenance shall be required to maintain appropriate depth and 90% cover. Temporary vegetation may be employed instead of mulch if the area will remain undisturbed for less than six months. If an area will remain undisturbed for greater than six months, permanent vegetative techniques shall be employed.

SPECIFICATIONS

MULCHING WITHOUT SEEDING
This standard applies to grades or cleared areas where seedings may not have a suitable growing season to produce an erosion retardant cover, but can be stabilized with a mulch cover.

Site Preparation
1. Grade to permit the use of equipment for applying and anchoring mulch.
2. Install needed erosion control measures as required such as dikes, diversions, berms, terraces and sediment barriers.
3. Loosen compact soil to a minimum depth of 3 inches.

Mulching Materials
Select one of the following materials and apply at the depth indicated:
1. Dry straw or hay shall be applied at a depth of 2 to 4 inches providing complete soil coverage. One advantage of this material is easy application.

2. Wood waste (chips, sawdust or bark) shall be applied at a depth of 2 to 3 inches. Organic material from the clearing stage of development should remain on site, be chipped, and applied as mulch. This method of mulching can greatly reduce erosion control costs.
3. Cutback asphalt (slow curing) shall be applied at 1200 gallons per acre (or 1/4 gallon per sq.yd.).
4. Polyethylene film shall be secured over banks or stockpiled soil material for temporary protection. This material can be salvaged and reused.

Applying Mulch
When mulch is used without seeding, mulch shall be applied to provide full coverage of the exposed area.
1. Dry straw or hay mulch and wood chips shall be applied uniformly by hand or by mechanicalequipment.
2. If the area will eventually be covered with perennial vegetation, 20-30 pounds of nitrogen per acre in addition to the normal amount shall be applied to offset the uptake of nitrogen caused by the decomposition of the organic mulches.
3. Cutback asphalt shall be applied uniformly. Care should be taken in areas of pedestrian traffic due to problems of 'tracking in" or damage to shoes, clothing, etc.
4. Apply polyethylene film on exposed areas.

Anchoring Mulch
1. Straw or hay mulch can be pressed into the soil with a disk harrow with the disk set straight or with a special "packer disk." Disks may be smooth or serrated and should be 20 inches or more in diameter and 8 to 12 inches apart. The edges of the disk should be dull enough not to cut the mulch but to press it into the soil leaving much of it in an erect position. Straw or hay mulch shall be anchored immediately
after application. Straw or hay mulch spread with special blower-type equipment may be anchored with emulsified asphalt (Grade AE-5 or SS-1). The asphalt emulsion shall be sprayed onto the mulch as it is ejected from the machine. Use
100 gallons of emulsified asphalt and 100 gallons of water per ton of mulch. Tackifers and binders can be substituted for emulsified asphalt. Please refer to specification Tb -Tackifers and Binders. Plastic mesh or netting with mesh no larger than one inch by one inch shall be installed according to manufacturer's specifications.
2. Netting of the appropriate size shall be used to anchor wood waste. Openings of the netting shall not be larger than the average size of the wood waste chips.
3. Polyethylene film shall be anchor trenched at the top as well as incrementally as necessary.

Ds1 DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)

DEFINITION

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

CONDITIONS

Temporary grassing, instead of mulch, can be applied to rough graded areas that will be exposed for less than six months. 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.
seeded.

SEEDING RATES FOR TEMPORARY SEEDING

SPECIES	RATE Per 1,000 sq.ft.	RATE Per Acre *	PLANTING DATES **
Rye	3.9 pounds	3 bu.	9/1-3/1
Ryegrass	0.9 pound	40 lbs.	8/15-4/1
Annual Lespedeza	0.9 pound	40 lbs.	1/15-3/15
Weeping Lovegrass	0.1 pound	4 lbs.	2/15-6/15
Sudangrass	1.4 pounds	60 lbs.	**3/1-8/1**
Browntop Millet	0.9 pound	40 lbs.	**4/1-7/15**
Wheat	4.1 pounds	3 bu.	9/15-2/1

* Unusual site conditions may require heavier seeding rates
** Seeding dates may need to be altered to fit temperture variations and conditions

Ds2 DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)

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 handseeding, 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 of one ton per acre. Graded areas require lime application. Soils can be tested to determine if fertilizer is needed. On reasonably fertile soils or soil material, fertilizer is not required. For soils with very low fertility, 500 to 700 pounds of 10-10-10 fertilizer or the equivalent per acre (12-16 lbs./1,000 sq. ft.) shall be applied. Fertilizer should be applied before land preparation and incorporated with a disk, ripper or chisel.

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, cultipacker 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.

Mulching

Temporary vegetation can, in most cases, be established without the use of mulch. Mulch without seeding should be considered for short term protection. Refer to Da1 - 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.

DEFINITION

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

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 standard Tb-Tackifiers and Binders. Resins such as Curasol or Terratack should be used according to manufacturer's recommendations.

Vegetative Cover. See standard 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 standard Tb-Tackifiers and Binders.

Tillage. This practice is designed to roughen and bring clods to the surface. It is an emergency measure which 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 which 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, snow fences, 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 standard Da3 -Disturbed Area Stabilization (With Permanent Vegetation). Existing trees and large shrubs may afford valuable
protection if left in place.

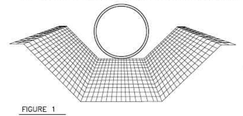
Topsoiling. This entails covering the surface with less erosive soil material. See standard Tp - Topsoiling.

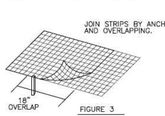
Stone. Cover surface with crushed stone or coarse gravel. See standard Cr-Construction Road Stabilization.

Du DUST CONTROL ON DISTURBED AREAS

INSTALLATION INSTRUCTIONS: FOR DITCH & SLOPES

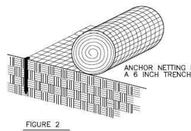
1. SEED (PER SPEC) BEFORE PLACEMENT OF MATTING. ROLL STRIPS OUT PARALLEL TO THE DIREC-TION OF WATER FLOW, OR DOWN SLOPE. (SEE FIGURE 1)
2. START LAYING THE NET FROM THE TOP OF THE CHANNEL OR SLOPE AND UNROLL IT DOWN THE GRADE. ALLOW MATTING TO LAY LOOSELY ON THE SOIL BUT WITHOUT WRINKLES- DO NOT STRETCH.
3. TO SECURE THE NET, BURY THE UP-SLOPE END IN A TRENCH NO LESS THAN 6" DEEP, COVER WITH SOIL AND TAMP FIRMLY (SEE FIGURE 2). STAPLE THE MAT EVERY 12" ACROSS THE TOP END AND EVERY 3' AROUND THE EDGES AND BOTTOM. WHERE 2 STRIPS OF NET ARE LAID SIDE BY SIDE, THE ADJACENT EDGES SHOULD BE OVERLAPPED 3 INCHES AND STAPLED TOGETHER. EACH STRIP OF MATTING SHOULD ALSO BE STAPLED DOWN THE CENTER, EVERY 3'. DO NOT STRETCH THE MAT WHEN APPLYING STAPLES.
4. TO JOIN TWO STRIPS, CUT A TRENCH TO ANCHOR THE END OF THE NEW MAT. OVERLAP THE END OF THE PREVIOUS ROLL 18" (SEE FIGURE 2), AND STAPLE EVERY 12" JUST BELOW THE ANCHOR SLOT.
5. INSPECT PERIODICALLY AND AFTER EACH RAINSTORM UNTIL VEGETATION IS COMPLETELY ESTABLISHED.
6. ERODED OR EXPOSED AREAS SHOULD BE SEEDED AND STABILIZED WITH MULCH AS QUICKLY AS POSSIBLE.

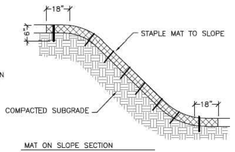




IN CHANNELS, ROLL OUT STRIPS OF NETTING PARALLEL TO THE DIRECTION OF FLOW.

NOTE:
CONTRACTOR SHALL USE "EXCELSIOR" BLANKET OR APPROVED ALTERNATE. MUST BE WOOD FIBER MATTING OF BIODEGRADABLE TYPE.





DISTURBED AREA STABILIZATION (WITH MULCHING ONLY) — Ds1
N.T.S

DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING) — Ds2
N.T.S

DUST CONTROL ON DISTURBED AREAS — DU
N.T.S

EROSION CONTROL MAT — Mb
N.T.S

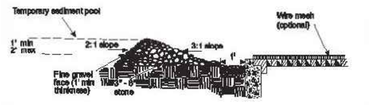


Figure 6-28.4 Gravel Drop Inlet Protection

SOD STRIPS PROTECT INLET AREA FROM EROSION
(SOURCE: VA SWCC)

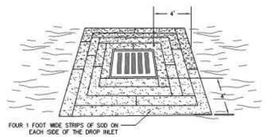


Figure 6-28.5 Sod Inlet Protection

DEFINITION

The planting of perennial vegetation such as trees, shrubs, vines, grasses, or legumes on exposed areas for final permanent stabilization. Permanent perennial vegetation shall be used to achieve final stabilization..

CONDITIONS

Permanent perennial vegetation is used to provide a protective cover for exposed areas including cuts, fills, dams, and other denuded areas.

SPECIFICATIONS

Grading and Shaping

Grading and shaping may not be required where hydraulic seeding and fertilizing equipment is to be used. Vertical banks shall be sloped to enable plant establishment.

When conventional seeding and fertilizing are to be done, grade and shape where feasible and practical, so that equipment can be used safely and efficiently during seedbed preparation, seeding, mulching and maintenance of the vegetation.

oncentrations of water that will cause excessive soil erosion shall be diverted to a safe outlet. Diversions and other treatment practices shall conform with the appropriate standards and specifications.

Seedbed Preparation

Seedbed preparation may not be required where hydraulic seeding and fertilizing equipment is to be used. When conventional seeding is to be used, seedbed preparation will be done as follows:

Broadcast plantings

1. Tillage at a minimum, shall adequately loosen the soil to a depth of 4 to 6 inches; alleviate compaction; incorporate lime and fertilizer; smooth and firm the soil; allow for the proper placement of seed, sprigs, or plants, and allow for the anchoring of straw or hay mulch if a disk is to be used.
2. Tillage may be done with any available equipment.
3. Tillage should be done on the contour where feasible.

4. On slopes too steep for the safe operation of tillage equipment, the soil surface shall be pitted or trenched across the slope with appropriate hand tools to provide two places 6 to 8 inches apart in which seed may lodge and germinate. Hydraulic seeding may also be used.

Individual Plants

1. Where individual plants are to be set, the soil shall be prepared by excavating holes, opening furrows, or dibble planting.
2. For nursery stock plants, holes shall be large enough to accommodate roots without crowding.
3. Where pine seedlings are to be planted, subsoil under the row 36 inches deep on the contour four to six months prior to planting. Subsoiling should be done when the soil is dry, preferably in August or September.

Planting

Hydraulic Seeding

Mix the seed (innoculated if needed), fertilizer, and wood cellulose or wood pulp fiber mulch with water and apply in a slurry uniformly over the area to be treated. Apply within one hour after the mixture is made.

Conventional Seeding

Seeding will be done on a freshly prepared and firmed seedbed. For broadcast planting, use a cultipacker seeder, drill, rotary seeder, other mechanical seeder, or hand seeding to distribute the seed uniformly over the area to be treated. Cover the seed lightly with 1/8 to 1/4 inch of soil for small seed and 1/2 to 1 inch for large seed when using a cultipacker or other suitable equipment.

No-Till Seeding

No-till seeding is permissible into annual cover crops when planting is done following maturity of the cover crop or if the temporary cover stand is sparse enough to allow adequate growth of the permanent (perennial) species. No-till seeding shall be done with appropriate no-till seeding equipment. The seed must be uniformly distributed and planted at the proper depth.

Individual Plants

Shrubs, vines and sprigs may be planted with appropriate planters or hand tools. Pine trees shall be planted manually in the subsoil furrow. Each plant shall be set in a manner that will avoid crowding the roots. Nursery stock plants shall be planted at the same depth or slightly deeper than they grew at the nursery. The tips of vines and sprigs must be at or slightly above the ground surface. Where individual holes are dug, fertilizer shall be placed in the bottom of the hole, two inches of soil shall be added and the plant shall be set in the hole.

Mulching

Mulch is required for all permanent vegetation applications. Mulch applied to seeded areas shall achieve 75% soil cover. Select the mulching material from the following and apply as indicated:

1. Dry straw or dry hay of good quality and free of weed seeds can be used. Dry straw shall be applied at the rate of 2 tons per acre. Dry hay shall be applied at a rate of 2 1/2 tons per acre.
2. Wood cellulose mulch or wood pulp fiber shall be used with hydraulic seeding. It shall be applied at the rate of 500 pounds per acre. Drystraw or dry hay shall be applied (at the rate indicated above) after hydraulic seeding.
3. One thousand pounds of wood cellulose or wood pulp fiber, which includes a tackifier, shall be used with hydraulic seeding on slopes 3/4:1 or steeper.
4. Sericea lespedeza hay containing mature seed shall be applied at a rate of three tons per acre.
5. Pine straw or pine bark shall be applied at a thickness of 3 inchse for bedding purposes. Other suitable materials in sufficient quantity may be used where ornamentals or other ground covers are planted. This is not appropriate for seeded areas.
6. When using temporary erosion control blankets or block sod, mulch is not required.
7. Bituminous treated roving may be applied on planted areas on slopes, in ditches or dry waterways to prevent erosion. Bituminous treated roving shall be applied within 24 hours after an area has been planted. Application rates and materials must meet Georgia Department of Transportation specifications.

Wood cellulose and wood pulp fibers shall not contain germination or growth inhibiting factors. They shall be evenly dispersed when agitated in water. The fibers shall contain a dye to allow visual metering and aid in uniform application during seeding.

Applying Mulch

Straw or hay mulch will be spread uniformly within 24 hours after seeding and/or planting. The mulch may be spread by blower-type spreading equipment, other spreading equipment or by hand. Mulch shall be applied to cover 75% of the soil surface.

Wood cellulose or wood fiber mulch shall be applied uniformly with hydraulic seeding equipment.

Anchoring Mulch

Anchor straw or hay mulch immediately after application by one of the following methods:
1. Emulsified asphalt can be (a) sprayed uniformly onto the mulch as it is ejected from the blower machine or (b) sprayed on the mulch immediately following mulch application when straw or hay is spread by methods other than special blower equipment.

The combination of asphalt emulsion and water shall consist of a homogeneous mixture satisfactory for spraying. The mixture shall consist of 100 gallons of grade SS-1h or CSS-1h emulsified asphalt and 100 gallons of water per ton of mulch.
Care shall be taken at all times to protect state waters, the public, adjacent property, pavements, curbs, sidewalks, and all other structures from asphalt discoloration.
2. Hay and straw mulch shall be pressed into the soil immediately after the mulch is spread. A special "packer disk" or disk harrow with the disks set straight may be used. The disks may be smooth or serrated and should be 20 inches or more in diameter and 8 to 12 inches apart. The edges of the disks shall be dull enough to press the mulch into the ground without cutting it, leaving much of it in an erect position. Mulch shall not be plowed into the soil.
3. Synthetic tackifiers or binders approved by GDOT shall be applied in conjunction with or immediately after the mulch is spread. Synthetic tackifiers shall be mixed and applied according to manufacturer's specifications. Refer to Tb - Tackifiers and Binders.
4. Rye or wheat can be included with Fall and Winter plantings to stabilize the mulch. They shall be applied at a rate of one-quarter to one half bushel per acre.
5. Plastic mesh or netting with mesh no larger than one inch by one inch may be needed to anchor straw or hay mulch on unstable soils and concentrated flow areas. These materials shall be installed and anchored according to manufacturer's specifications.

Irrigation

Irrigation shall be applied at a rate that will not cause runoff.

SEEDING RATES FOR PERMANENT SEEDING

SPECIES	RATE Per 1,000 sq.ft.	RATE Per Acre *	PLANTING DATES **
BAHIA	1.4 POUNDS	60 LBS.	1/1-12/31
BERMUDA	0.2 POUND	10 LBS.	2/15-7/1
CENTIPEDE	BLOCK SOD ONLY	BLOCK SOD ONLY	4/1-7/1
LESPEDEZA	1.7 POUNDS	75 LBS.	1/1-12/31
WEEPING LOVE GRASS	0.1 POUND	4 LBS.	2/1-6/15
SWITCH GRASS	0.9 POUND	40 LBS.	3/15-6/1

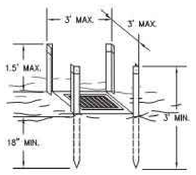
* Unusual site conditions may require heavier seeding rates
** Seeding dates may need to be altered to fit temperature variations and conditions

Ds3 DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)

DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION) — Ds3
N.T.S

FABRIC AND SUPPORTING FRAME FOR INLET PROTECTION

STEEL FRAME AND TYPE C 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.

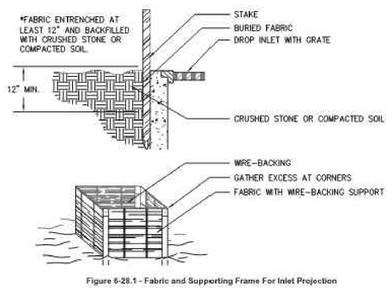


Figure 6-28.1 - Fabric and Supporting Frame For Inlet Projection

CURB INLET FILTER "PIGS IN BLANKET"

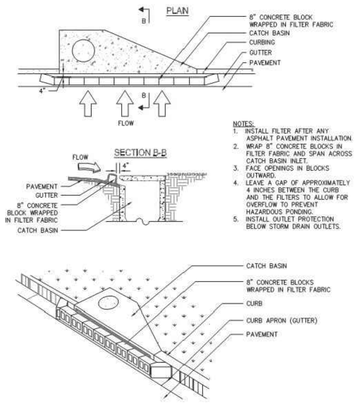


Figure 6-28.6 Curb Inlet Filter "Pigs in Blanket"

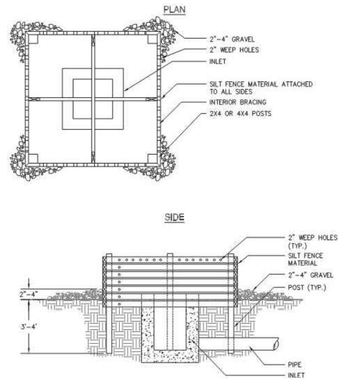


Figure 6-28.2 Baffle Box

INLET PROECTION — Sd2-F, SD2-P, SD2-S, SD2-B
N.T.S

NOTES:
1. APPLY ACCORDING TO PLAN AND SPECIFICATIONS
2. TOPSOIL SHOULD BE FRIABLE AND LOAMY, FREE OF DEBRIS, OBJECTIONABLE WEED AND STONES AND CONTAIN NO TOXIC SUBSTANCE THAT MAY BE HARMFUL TO PLANT GROWTH.
3. STRIPPING DEPTH OF 4 TO 6 INCHES IS COMMON AND SHOULD BE CONFINED TO THE IMMEDIATE CONSTRUCTION AREA.
4. STOCKPILES MAY BE VEGETATED AND SHOULD NOT OBSTRUCT NATURAL DRAINAGE OR CAUSE OFF-SITE ENVIRONMENTAL DAMAGE.
5. IF SUBSOIL IS COMPOSED OF HEAVY CLAYS, LIME SHALL BE SPREAD AT THE RATE OF 100 POUNDS PER 1,000 SQUARE FEET.
6. SUBSOIL SHOULD BE LOOSENED BY DISCING OR SCARIFYING TO A MINIMUM DEPTH OF 3 INCHES TO PERMIT BONDING OF THE TOPSOIL TO THE SUBSOIL. TRACKING BY A BULLDOZER IS ALSO ADEQUATE.
7. TOPSOIL SHOULD BE APPLIED AT A UNIFORM DEPTH OF 5 INCHES (UNSETTLED), BUT MAY BE ADJUSTED AT THE DISCRETION OF THE LANDSCAPE ARCHITECT.

TOPSOIL — Tp
N.T.S

GMC
6120 Powers Ferry Road NW, Suite 350
Atlanta, GA 30339
T 770.952.2481
GMCNETWORK.COM

ISSUE	DATE
BID SET	2025.05.22

DRAWN BY: | CHECKED BY: LKR

PERROW PARK
JASPER, GA

LATL240013

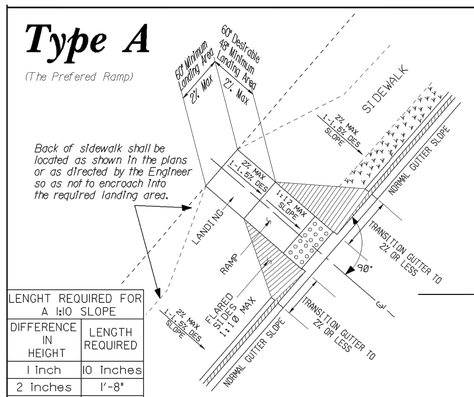
DETAILS

C-902

DRAWING FILE: T:\1 Projects\GA\Jasper\LATL240013 - Jasper Perrow Park\00 DWG\01 PLANS\C-800 DETAILS.dwg
PLOTTED: May 21, 2025 - 3:47pm

Type A

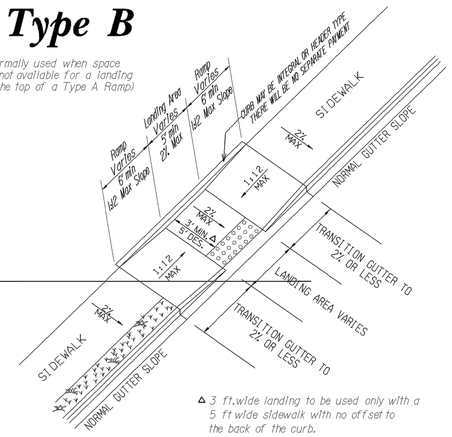
(The Prefered Ramp)



LENGHT REQUIRED FOR A 1:10 SLOPE	
DIFFERENCE IN HEIGHT	LENGTH REQUIRED
1 Inch	10 Inches
2 Inches	1'-8"
3 Inches	2'-6"
4 Inches	3'-4"
5 Inches	4'-2"
6 Inches	5 feet

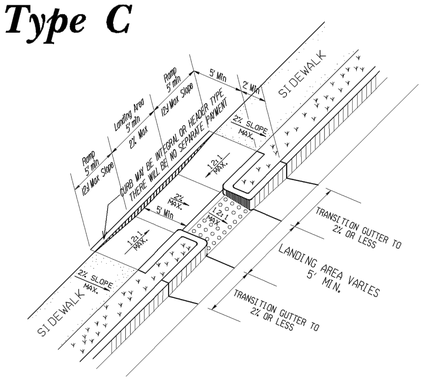
Type B

(Normally used when space is not available for a landing at the top of a Type A Ramp)



Δ 3 ft.wide landing to be used only with a 5 ft wide sidewalk with no offset to the back of the curb.

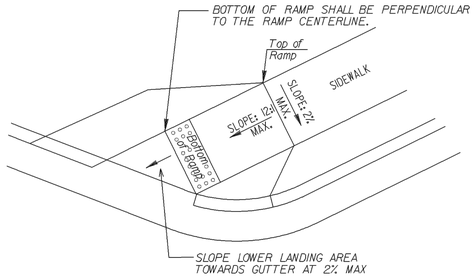
Type C



Skewed Ramp Details

(Applies to Type A & Type D Ramps Only)

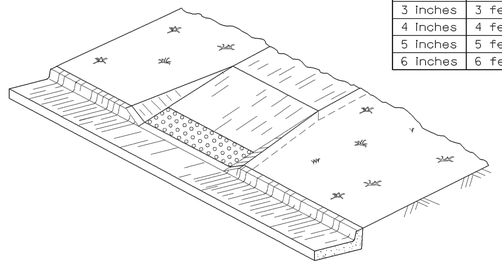
WHEN THE RAMP CENTERLINE IS NOT PERPENDICULAR TO THE CURB A LEVEL LANDING AREA WITH SLOPES LESS THAN 2% MUST BE PROVIDED AT THE BOTTOM OF THE RAMP.



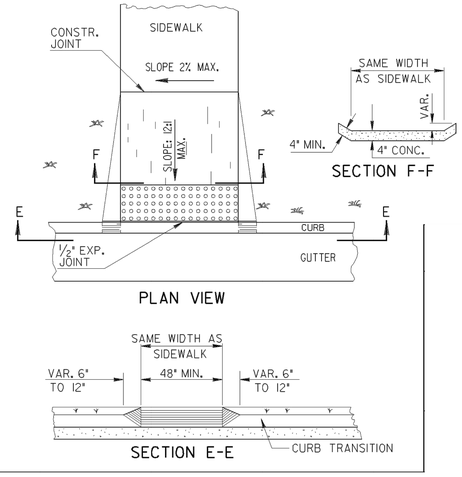
Type D

(Normally used when the sidewalk ties directly into the crosswalk)

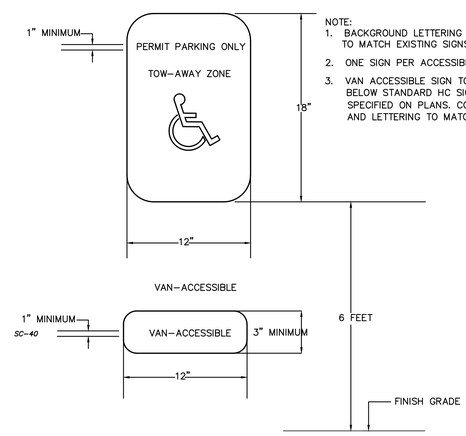
LENGHT REQUIRED FOR A 1:12 SLOPE	
DIFFERENCE IN HEIGHT	LENGTH REQUIRED
1 Inch	1 foot
2 Inches	2 feet
3 Inches	3 feet
4 Inches	4 feet
5 Inches	5 feet
6 Inches	6 feet



IN AREAS WHERE THE GUTTER HAS A SLOPE 1" IN 1' END NORMAL GUTTER SLOPE AT A DISTANCE OF 6 TO 10 FEET FROM THE RAMP AND BEGIN TRANSITION TO A FLAT GUTTER SLOPE. NORMAL GUTTER SLOPE SHALL BE RESUMED AT A SIMILAR DISTANCE BEYOND THE RAMP.

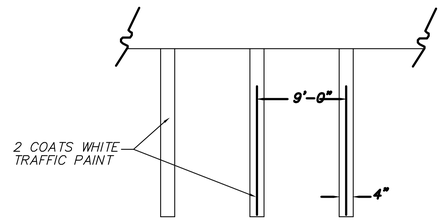


ADA RAMP DETAILS
N.T.S.



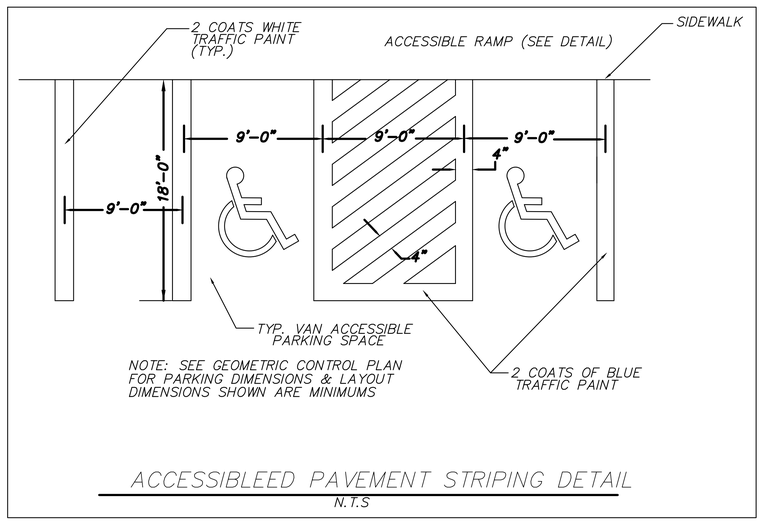
NOTE:
1. BACKGROUND LETTERING AND SYMBOL TO MATCH EXISTING SIGNS.
2. ONE SIGN PER ACCESSIBLE SPACE
3. VAN ACCESSIBLE SIGN TO BE MOUNTED BELOW STANDARD HC SIGN WHERE SPECIFIED ON PLANS. COLORING AND LETTERING TO MATCH HC SIGN

ACCESSIBLE SIGN DETAILS
NTS



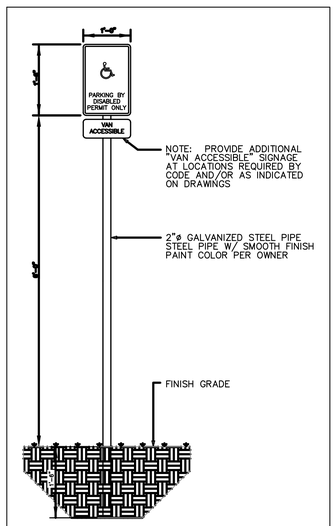
NOTE: SEE GEOMETRIC CONTROL PLAN FOR PARKING DIMENSIONS & LAYOUT

PAVEMENT STRIPING DETAIL
N.T.S SC-42

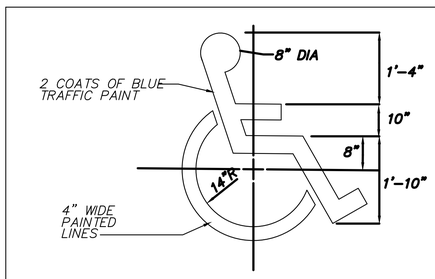


NOTE: SEE GEOMETRIC CONTROL PLAN FOR PARKING DIMENSIONS & LAYOUT DIMENSIONS SHOWN ARE MINIMUMS

ACCESSIBLEED PAVEMENT STRIPING DETAIL
N.T.S



ACCESSIBLE PARKING SIGN DETAIL

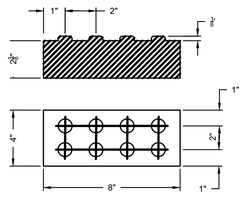


ACCESSIBLE SYMBOL
N.T.S SC-40

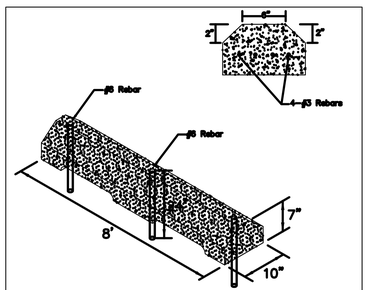
NOTE:

THIS DETAIL IS TO ILLUSTRATE THE MAJOR COMPONENTS REQUIRED FOR ADA PARKING. REFER TO THE SITE PLAN FOR THE ACTUAL LAYOUT AND NUMBER OF SPACES TO BE PROVIDED.

ALL PAINTED LINES AND STRIPING SHALL BE 4" WIDE. STRIPING SHALL BE SPACED AT 18" ON CENTER. COLOR SHALL BE BLUE.



DETECTABLE WARNING PAVER
N.T.S.



CONCRETE WHEEL STOP
N.T.S

Note:
Concrete shall be air entrained, reinforced 4000 psi concrete.

GMC
6120 Powers Ferry Road NW, Suite 350
Atlanta, GA 30339
T 770.952.2481
GMCNETWORK.COM

ISSUE | DATE
BID SET 2025.05.22

DRAWN BY: LKR
CHECKED BY: LKR

PERROW PARK
JASPER, GA

LATL240013

DETAILS

C-903

DRAWING FILE: T:\1 Projects\GA\Jasper\LATL240013 - Jasper Perrow Park\00.DWG\01.PLANS\C-900 DETAILS.dwg
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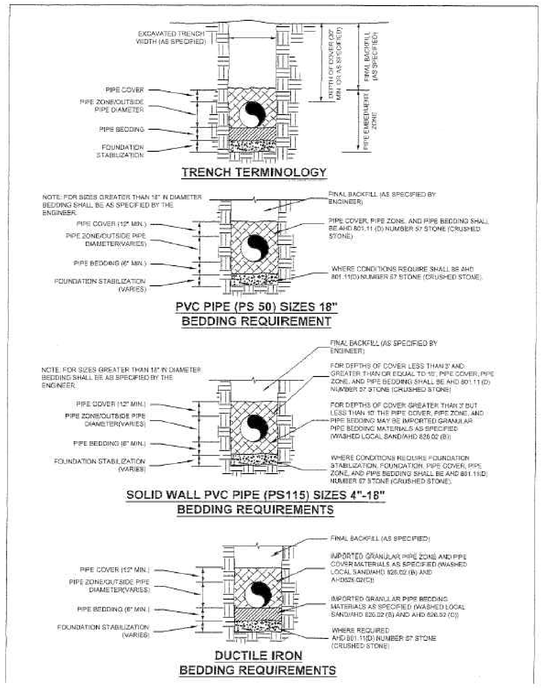
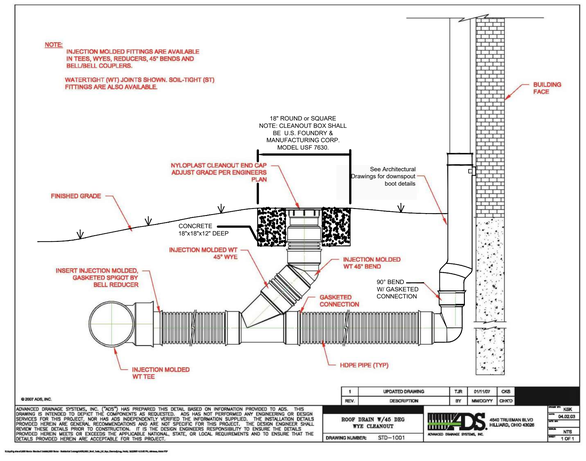
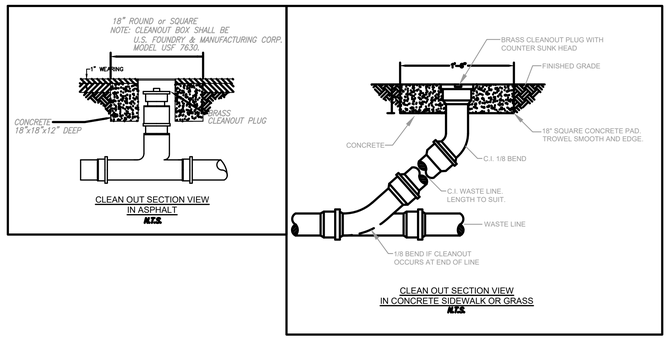
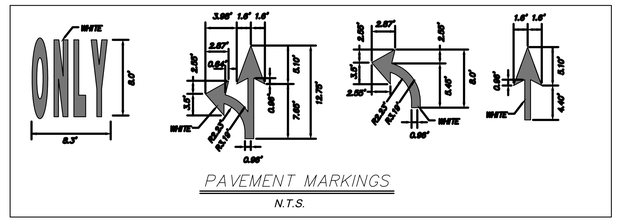


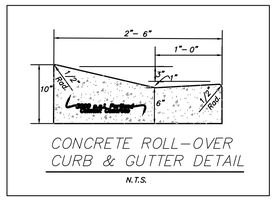
PIPE BEDDING REQUIREMENTS

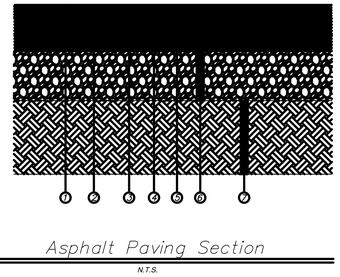
NOT TO SCALE





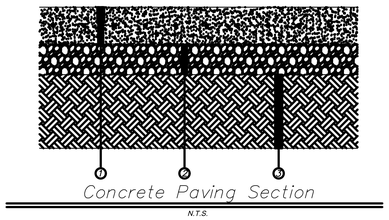






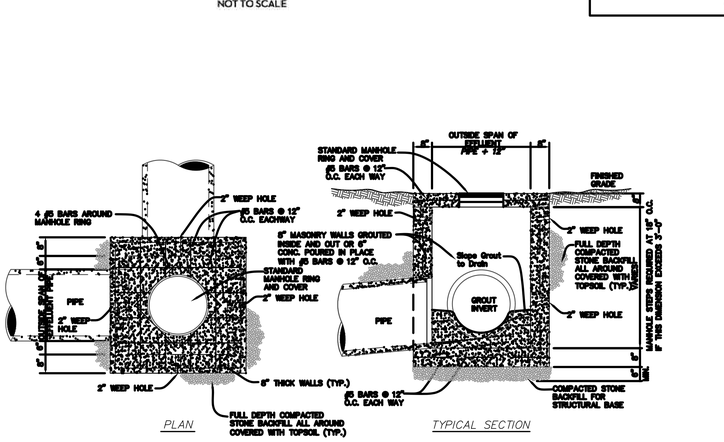
1. 1.5" Wearing Surface (12.5 mm Superpave Surface)
2. Tack Coat
3. 1.75" Binder (19mm Superpave Intermediate)
4. Prime Coat
5. 1.75" Binder (19mm Superpave Intermediate)
6. 8" Graded Aggregate Base (100% Standard Density)
7. 12" Compacted Subgrade (98% Standard Density)

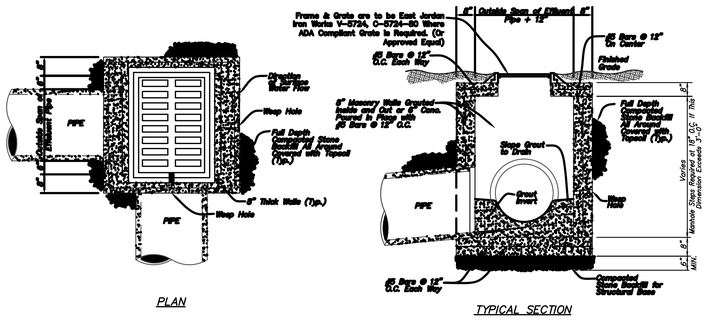
NOTES:
1. SUB-GRADE, BASE AND PAVEMENT LAYERS SHALL MEET ALL REQUIREMENTS FOR GDOT'S STANDARD SPECIFICATIONS AND THE GEOTECHNICAL REPORT.

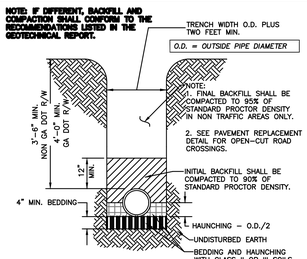


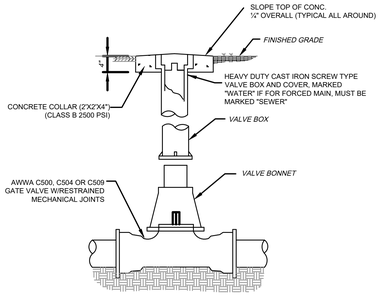
1. 7" 4000 psi Compressive Strength Portland Cement Concrete Mixture with 6x6 – W2.9xW2.9 WWF (Minimum 550 psi Flexural Strength) Maximum 4" Slump for Non–Slip Formed & 2.5" When Placed by Slip Forming
2. 6" Graded Mineral Aggregate Base (98% Standard Density)
3. 12" Compacted Subgrade (98% Standard Density)

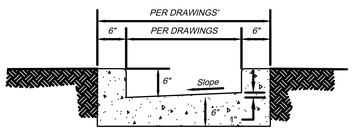
NOTES:
1. SUB-GRADE, BASE AND PAVEMENT LAYERS SHALL MEET ALL REQUIREMENTS FOR GDOT'S STANDARD SPECIFICATION AND THE GEOTECHNICAL REPORT.

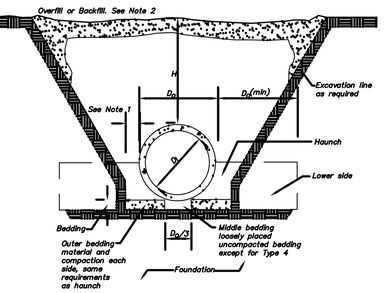










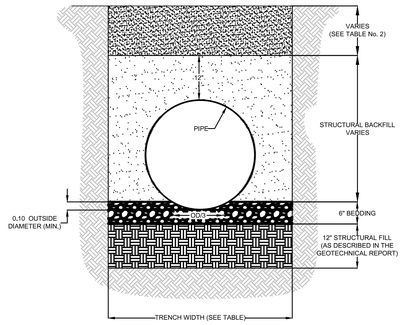


1. Clearance between pipe and trench wall shall be adequate to enable specified compaction but not less than Do/6.
2. Overfill or Backfill material shall meet the requirements of AASHTO A–1, A–3, A–2–4, A–2–5 or A–4
3. Compaction shall be according with table No.1. Proctor Standard density shall follow the AASHTO T–99, T310
4. When the trench width specified must be exceeded, the Owner and Engineer or Record shall be notified.
5. The trench width shall be wider than shown if required for adequate space to attain the specified compaction in the haunch and bedding zones.
6. Embankment loading shall be used when trench walls consist of embankment unless a Geotechnical Analysis is made and the soil in the trench walls is compacted to a higher level than the soil in the backfill zone.
7. Required bedding thickness is the thickness of the bedding prior to placement of the pipe.

TABLE No. 1 SOIL AND MINIMUM COMPACTION REQUIREMENTS

Installation Type	*Bedding Thickness*	*Haunch and Outer Bedding*	*Lower Side*
Type 1	Do/24 minimum; not less than 3 in. If rock foundation, use Do/12 minimum; not less than 6 in.	95% Proctor Standard for soil A1 & A3	Undisturbed natural soil with firmness equivalent to the following placed soils: 90% Proctor Standard for soil A1 & A3, or 95% Proctor Standard for soil A2–4 & A2–5, or embankment to the same requirements
Type 2	Do/24 minimum; not less than 3 in. If rock foundation, use Do/12 minimum; not less than 6 in.	90% Proctor Standard for soils A1 & A3, or 95% for soils A2–4, A2–5 & A–4	Undisturbed natural soil with firmness equivalent to the following placed soils: 85% Proctor Standard for soil A1 & A3, or 90% Proctor Standard for soil A2–4, A2–5 & A–4, or embankment to the same requirements

TYPICAL TRENCH DETAIL FOR REINFORCED CONCRETE PIPE
N.T.S



1. BEDDING MATERIAL AND STRUCTURAL BACKFILL SHALL MEET THE REQUIREMENTS OF AASHTO A–1, A–3, A–2–4 OR A–2–5 COMPACTED TO 95 STANDARD PROCTOR.
2. INSTALLATION: MINIMUM TRENCH WIDTHS SHALL MEET THE REQUIREMENTS OF TABLE 1, THE MIDDLE THIRD OF THE BEDDING MATERIAL UNDER THE PIPE SHOULD BE LOOSELY PLACED, WHILE THE REMAINDER SHALL BE COMPACTED TO A MINIMUM 95% OF MAXIMUM DENSITY PER AASHTO T–99. A MINIMUM OF 6 INCHES OF BEDDING SHALL BE PROVIDED PRIOR TO PLACEMENT OF THE PIPE. STRUCTURAL BACK FILL SHALL BE PLACED AND COMPACTED IN LAYERS NOT EXCEEDING A 6" LOOSE LIFT THICKNESS AND BROUGHT UP EVENLY ON BOTH SIDES OF THE PIPE TO AN ELEVATION NOT LESS THAN 12 INCHES ABOVE THE TOP OF THE PIPE. A MINIMUM COMPACTION LEVEL OF 95% STANDARD DENSITY PER AASHTO T–99 SHALL BE ACHIEVED. MINIMUM COVER REQUIREMENTS SHALL MEET THE REQUIREMENTS OF TABLE 2.

TABLE No. 1
RECOMMENDED TRENCH WIDTH

DIAMETER	TRENCH WIDTH
12"	34"
15"	38"
18"	44"
24"	54"
30"	65"
36"	75"
42"	90"
48"	100"
54"	110"
60"	125"
66"	135"
72"	150"
84"	170"

TABLE No. 2
RECOMMENDED COVER HEIGHT

DIAMETER	CLASS I/CLASS II (MINIMUM)	CLASS I/CLASS II (MAXIMUM)
12" – 36"	24"	25'
42" – 84"	24"	32'

TYPICAL TRENCH DETAIL FOR ADS PIPE AND CONTECH PIPE
N.T.S

GMC
6120 Powers Ferry Road NW, Suite 350
Atlanta, GA 30339
T 770.952.2481
GMCNETWORK.COM

ISSUE | DATE
BID SET | 2025.05.22

DRAWN BY: | LKR
CHECKED BY: |

PERROW PARK
JASPER, GA

LATL240013

DETAILS

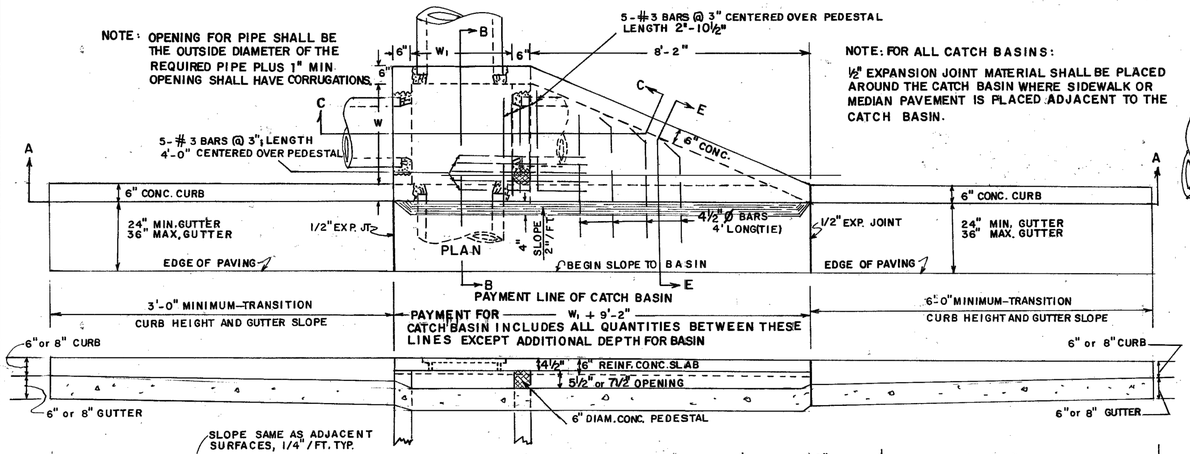
C-904

DRAWING FILE: T:\1 Projects\GA\Jasper\LATL240013 - Jasper Perrow Park\00 DWG\01 PLANS\C-900 DETAILS.dwg
PLOTTED: May 21, 2025 - 10:28am

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

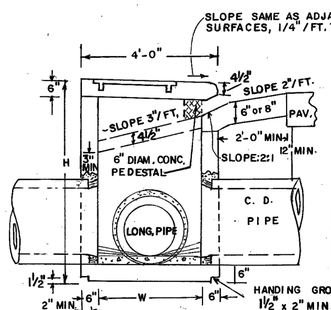
CATCH BASIN (IF CATCH BASIN HAS LONGITUDINAL PIPE OVER 24", SEE DETAILS AT RIGHT.)

NOTE: OPENING FOR PIPE SHALL BE THE OUTSIDE DIAMETER OF THE REQUIRED PIPE PLUS 1" MIN. OPENING SHALL HAVE CORRUGATIONS.

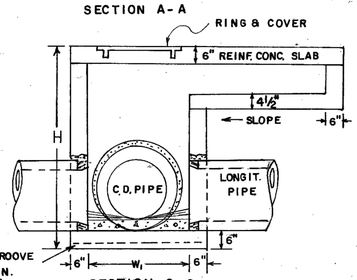


NOTE: FOR ALL CATCH BASINS:

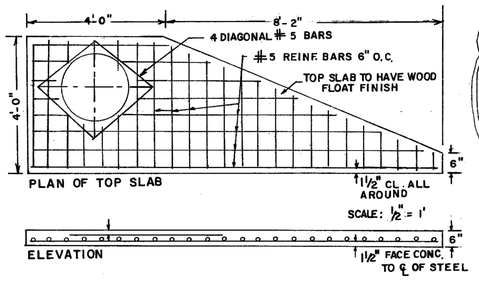
½" EXPANSION JOINT MATERIAL SHALL BE PLACED AROUND THE CATCH BASIN WHERE SIDEWALK OR MEDIAN PAVEMENT IS PLACED ADJACENT TO THE CATCH BASIN.

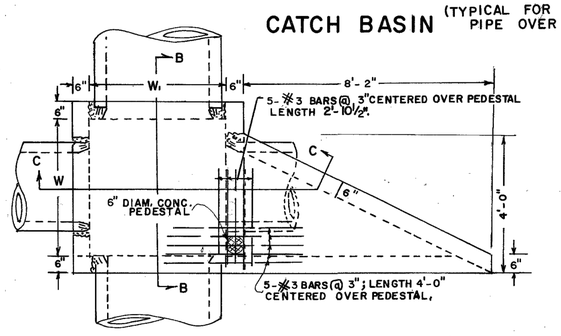


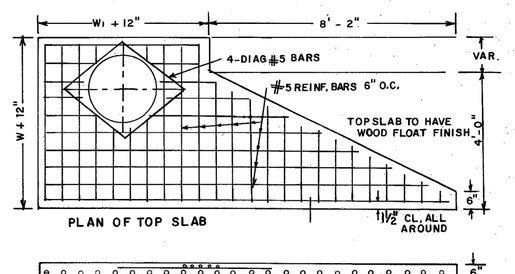
SECTION B-B
FOR MIN. HEIGHT

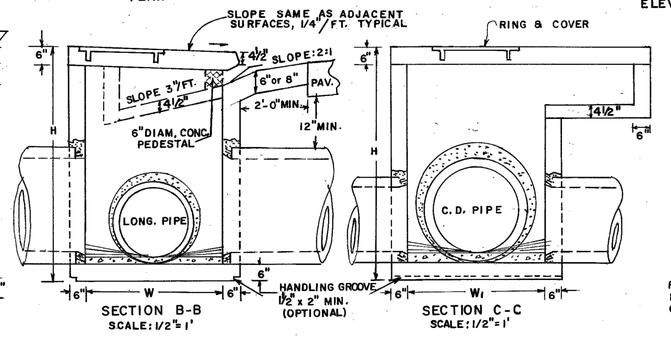


SECTION C-C
FOR MIN. HEIGHT

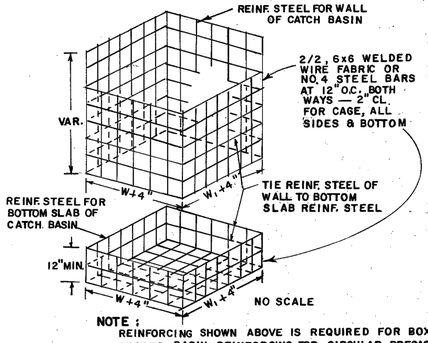






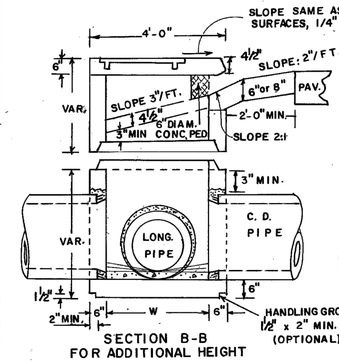


REINFORCING - ISOMETRIC VIEW

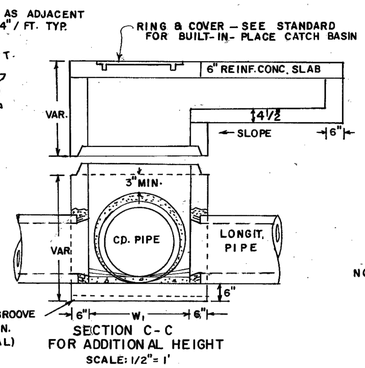


NOTE;
REINFORCING SHOWN ABOVE IS REQUIRED FOR BOX SHAPED BASIN. REINFORCING FOR CIRCULAR PRECAST ALTERNATE SHALL BE ACCORDING TO STD. 1040.

ALL JOINTS BETWEEN PRECAST RISERS OR BETWEEN PRECAST BASE AND RISER WILL BE KEYED, KEYED JOINTS SHOWN ARE TYPICAL AND MAY BE VARIED.

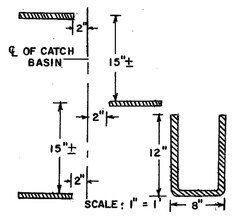


SECTION B-B
FOR ADDITIONAL HEIGHT



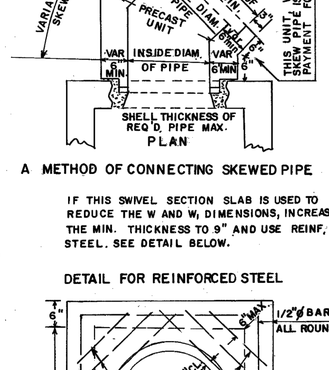
SECTION C-C
FOR ADDITIONAL HEIGHT
SCALE: 1/2" = 1'

DETAIL AND ARRANGEMENT OF LADDER BARS



NOTE:
NUMBER AND LOCATION OF LADDER BARS IN CATCH BASIN TO BE AS DIRECTED BY THE ENGINEER.
M.H. STEPS LISTED IN GA. D.O.T. LABORATORY'S QUALIFIED PRODUCTS LIST MAY BE SUBSTITUTED.

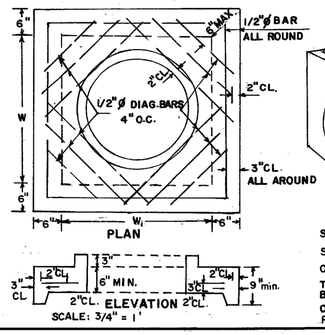
METHOD OF CONNECTING PIPE (WHERE CONCRETE PIPE HAS TO BE CUT)



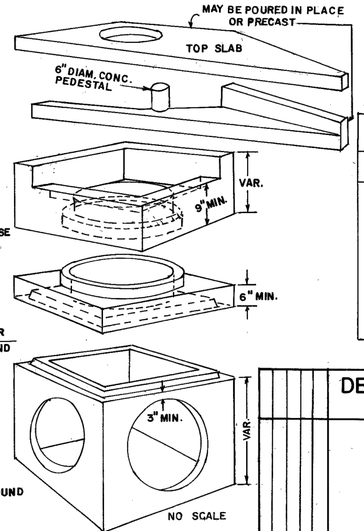
A METHOD OF CONNECTING SKEWED PIPE

IF THIS SWIVEL SECTION SLAB IS USED TO REDUCE THE W AND W1 DIMENSIONS, INCREASE THE MIN. THICKNESS TO 9" AND USE REINF. STEEL. SEE DETAIL BELOW.

DETAIL FOR REINFORCED STEEL



TYPICAL ISOMETRIC VIEW



SWIVEL SECTION MAY BE USED WHERE SKEWED PIPE CONNECTS TO PRECAST CONCRETE BOX.
THE ABOVE VIEW DEPICTS PRECAST BOX. SEE SEPARATE STANDARDS FOR CIRCULAR ALTERNATE OR BUILT-IN-PLACE BOX.

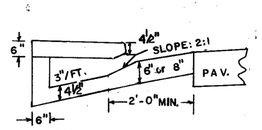
DIMENSIONS FOR CATCH BASINS

PIPE SIZE	NORMAL W OR W1	MIN H
12"	3'-0"	4'-4"
15"	3'-0"	4'-7"
18"	3'-0"	4'-10"
24"	3'-0"	5'-6"
30"	3'-6"	6'-2"
36"	4'-0"	6'-10"
42"	5'-0"	7'-4"
48"	5'-0"	8'-0"
54"	6'-0"	8'-6"
60"	6'-0"	9'-2"

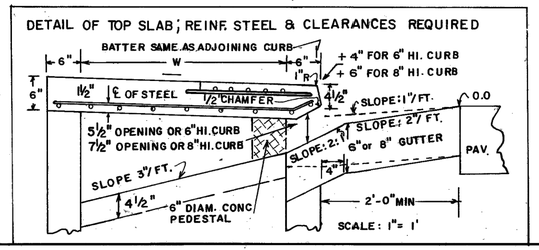
NOTE:
DIMENSIONS FOR CATCH BASINS ARE BASED UPON TYPICAL OUTSIDE DIAMETERS OF CONCRETE PIPES AND MAY BE VARIED IF CONDITIONS PERMIT AND THE ENGINEER APPROVES. W & W1 DIMENSIONS DO NOT HAVE TO BE EQUAL.

ALTERNATE:
BUILT-IN-PLACE, PRECAST BOX, AND/OR PRECAST CIRCULAR UNITS WITH THE REQUIRED ADAPTERS, REDUCERS, FITTINGS, CONNECTIONS, ETC. MAY BE USED IN COMBINATIONS.

NOTE:
FOR RING & COVER DETAILS AND OTHER DETAILS NOT SHOWN, SEE STANDARD 1033D FOR BUILT-IN-PLACE CATCH BASIN.



DETAIL OF TOP SLAB; REINF. STEEL & CLEARANCES REQUIRED



DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD PRECAST CATCH BASINS
FOR USE WITH CURB (6" OR 8" HT.) & GUTTER

SCALE AS SHOWN — REV. & REDR., SEPT., 1982

REV. & REDR.	RMU
TRA	GME
CHK	RKC

(SUBMITTED) Floyd E. Hardy
STATE ROAD & AIRPORT DESIGN ENGR
(APPROVED) Thomas D. Moreland
STATE HIGHWAY ENGINEER

NUMBER 1033D PRECAST

GMC
6120 Powers Ferry Road NW, Suite 350
Atlanta, GA 30339
T 770.952.2481
GMCNETWORK.COM

ISSUE	DATE
BID SET	2025.05.22

DRAWN BY: | CHECKED BY: LKR

PERROW PARK
JASPER, GA.

LATL240013

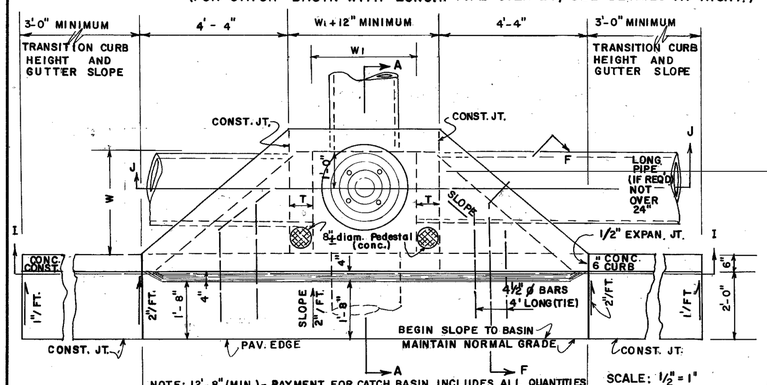
DETAILS

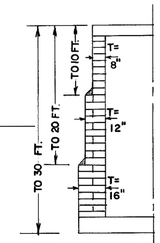
C-905

DRAWING FILE: T:\1 Projects\GA Jasper\LATL240013 - Jasper Perrow Park\00 DWG\01 PLANS\C-900 DETAILS.dwg
PLOTTED: May 21, 2025 - 3:46pm

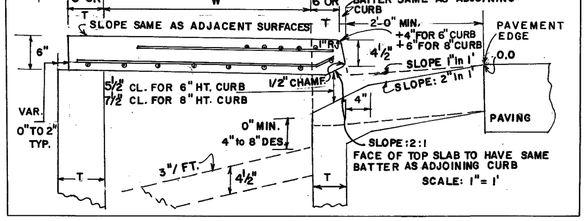
CATCH BASIN

(FOR CATCH BASIN WITH LONGIT. PIPE OVER 24", SEE DETAILS AT RIGHT.)

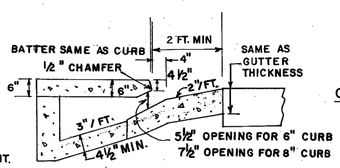




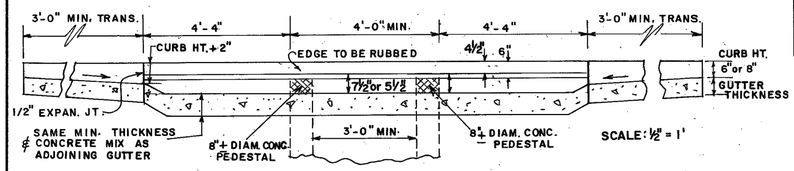
DEPTH LIMITS FOR INCREASING "T"



DETAIL OF TOP STAB REINF. STEEL & CLEARANCES REQ'D.

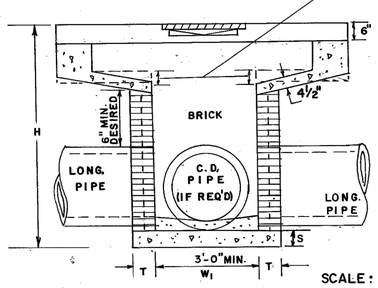


SECTION F-F



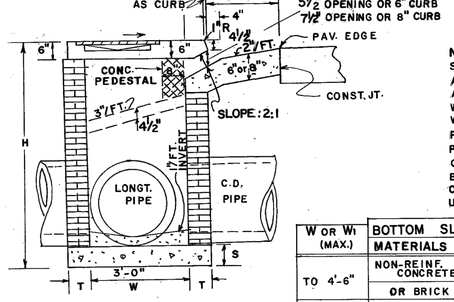
SECTION I-I

NOTE: NORMAL SLOPE OF CONCRETE APRON TO BE INCREASED UP TO 8" TOTAL WHERE "H" PERMITS AND LONGITUDINAL PIPE IS LOWERED FOR OTHER REASONS.



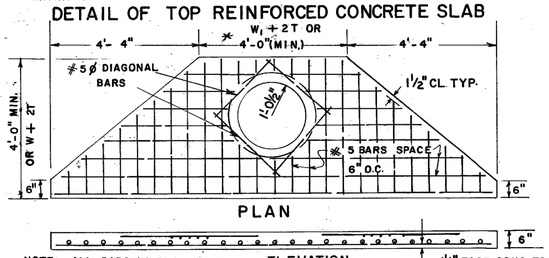
SCALE: ½" = 1'

SECTION J-J

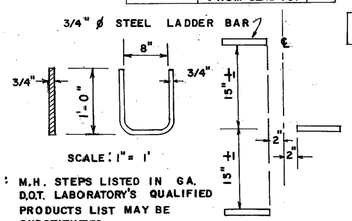


SECTION A-A

NOTE: PIPE SIZES, NUMBER, ALIGNMENT AND INVERTS SHOWN ARE ILLUSTRATIVE. SEE PLANS FOR SPECIFICS. INVERTS TO BE FORMED WITH GROUT OR CONC. AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.



NOTE: TOP SLAB MAY BE CAST IN PLACE OR PRECAST. IF CAST IN PLACE, BUILDER'S PAPER IS TO BE PLACED BETWEEN THE CATCH BASIN AND TOP SLAB.

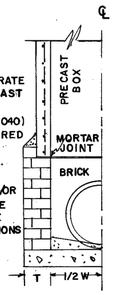


NOTE: M.H. STEPS LISTED IN GA. D.O.T. LABORATORY'S QUALIFIED PRODUCTS LIST MAY BE SUBSTITUTED.

ALL CATCH BASINS WILL HAVE STEPS OR LADDER BARS. NUMBER & LOCATION TO BE AS DIRECTED BY THE ENGINEER.

DETAIL OF LADDER BARS

W OR W1 (MAX.)	BOTTOM SLAB MATERIALS	"S"
TO 4'-6"	NON-REINF. CONCRETE	6"
	OR BRICK	8"
OVER 4'-6"	CONC. REINF. W1 4 BARS 12" O.C. BOTH WAYS 2" CL. FROM SLAB TOP	8"

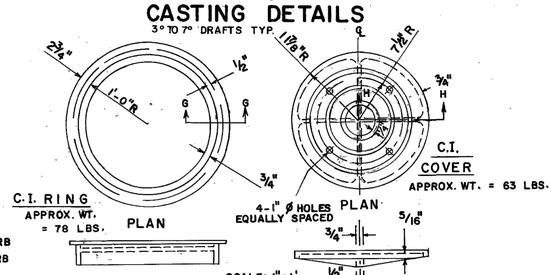


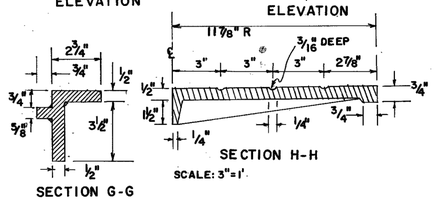
PRECAST BOX ON BRICK (HALF-SECTION)

NOTE: SEE SEPARATE STDS. FOR PRECAST ALTERNATES, ADAPTERS (STD. 1040) WILL BE REQUIRED WITH CIRCULAR PRECAST UNITS. PRECAST BOX, CIRCULAR, AND/OR BUILT-IN-PLACE CONSTR. MAY BE USED IN COMBINATIONS

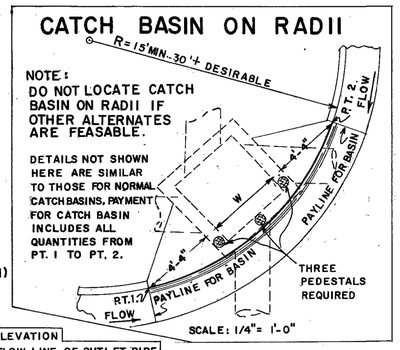
CASTING DETAILS

3° TO 7° DRAFTS TYP.





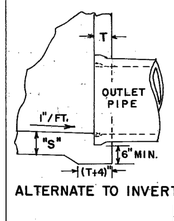
CATCH BASIN ON RADII



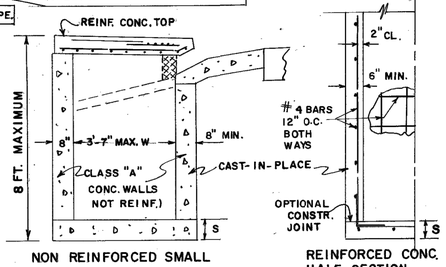
△E = MINIMUM DIFFERENCE IN ELEVATION FROM PAVEMENT EDGE TO FLOW LINE OF OUTLET PIPE.

TYPICAL MIN. DIMENSIONS			
PIPE DIA.	H (MIN.)	W or W1	MIN. △E
12	4'-4"	3'-0"	3'-3"
15	4'-7"	3'-0"	3'-6"
18	4'-10"	3'-0"	3'-9"
24	5'-6"	3'-0"	4'-4"
30	6'-2"	3'-7"	5'-0"
36	6'-10"	4'-6"	5'-7"
42	7'-4"	5'-3"	5'-11"
48	8'-0"	6'-0"	6'-6"
54	8'-6"	6'-8"	7'-0"
60	9'-2"	7'-4"	7'-7"

NOTE: THE MIN. H & MIN. △E GIVEN IN ABOVE TABLE ARE BASED UPON TYPICAL OUTSIDE DIAMETERS OF CONC. PIPE AND MAY BE VARIED, IF CONDITIONS PERMIT WITH VARIED DIMENSIONS SPECIFIED IN THE PLANS OR DIRECTED BY THE ENGINEER. W & W. DIMENSIONS DO NOT HAVE TO BE EQUAL.



ALTERNATE TO INVERT



NON REINFORCED SMALL BASIN (W1 NOT OVER 3'-7")

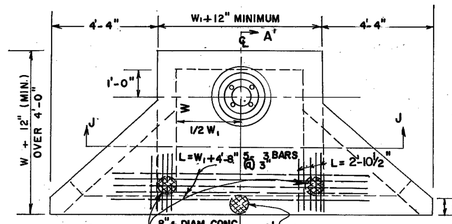
REINFORCED CONC. HALF-SECTION.

NOTE: **CONSTRUCTION ALTERNATES**

DETAILS NOT SHOWN ABOVE FOR CONSTRUCTION ALTERNATES WILL BE SIMILAR TO BRICK CATCH BASIN DETAILS.

CATCH BASIN (WITH PROTUDED BACK)

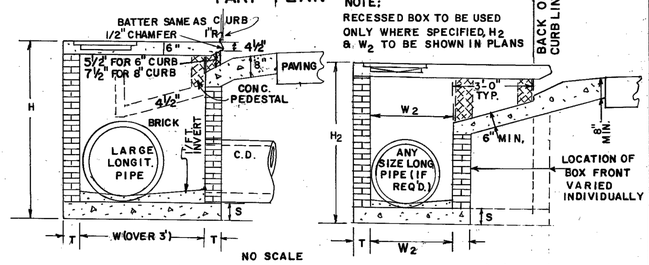
FOR USE WITH LONGITUDINAL PIPE OVER 24" OR FOR USE WITH RECESSED BOX



NOTE:
DETAILS NOT SHOWN HERE WILL BE SIMILAR TO THOSE AT FAR LEFT FOR NORMAL CATCH BASINS.

PART PLAN

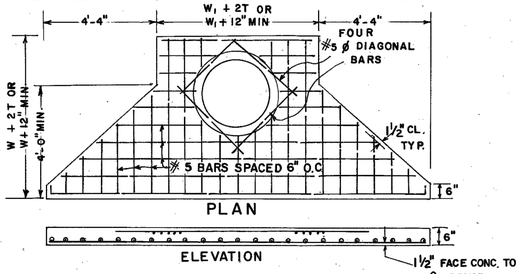
NOTE;
RECESSED BOX TO BE USED ONLY WHERE SPECIFIED, H_2 & W_2 TO BE SHOWN IN PLANS



SECTION A'-A' (FOR LONGIT. PIPE OVER 24")

SECTION A'-A (FOR RECESSED BOX)

DETAIL OF TOP REINFORCED CONCRETE SLAB



NOTE:

TYPICAL TREATMENT FOR SKEWED PIPES ARE: CIRCULAR PRECAST UNITS; PRECAST SWIVEL SECTIONS; PIPE ELBOWS OR INCREASED BOX SIZES TO ACCOMODATE THE SKEWS.

SEE SEPARATE STANDARDS FOR PRECAST ALTERNATES.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD CATCH BASINS

FOR USE WITH CURB (6" OR 8" HT.) & GUTTER (IN SAGS OR LOW POINTS)

SCALE AS SHOWN — REV. & RED. AUGUST, 1982

REV. & REDR. R.M.U.	(SUBMITTED) Floyd E. Hardy — STATE ROAD & AIRPORT DESIGN ENGR.	NUMBER
TRA. G.M.E.	(APPROVED) Thomas D. Malcolm — STATE HIGHWAY ENGINEER	1034D
CHK. R.K.C.		

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

GMC
6120 Powers Ferry Road NW, Suite 350
Atlanta, GA 30339
T 770.952.2481
GMCNETWORK.COM

ISSUE DATE
BID SET 2025.05.22

DRAWN BY:
CHECKED BY: LKR

PERROW PARK
JASPER, GA

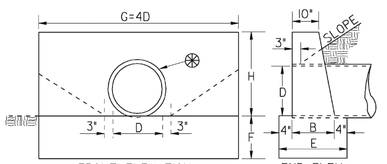
LATL240013

DETAILS

C-906

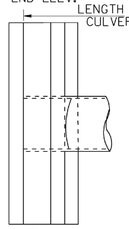
DRAWING FILE: T:\1 Projects\GA\Jasper\LATL240013 - Jasper Perrow Park\100 DWG\101 PLANS\C-906 DETAILS.dwg
PLOTTED: May 21, 2025 - 9:56am

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



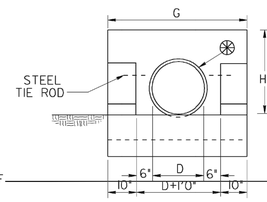
FRONT ELEVATION

END ELEV.

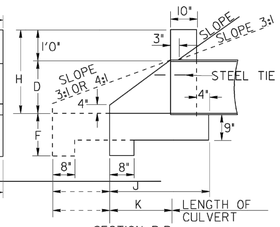


STRAIGHT WALL

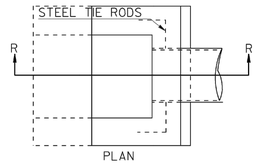
PLAN



FRONT ELEVATION

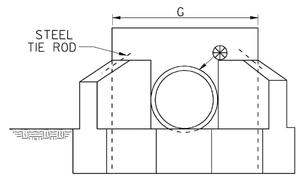


SECTION R.R.

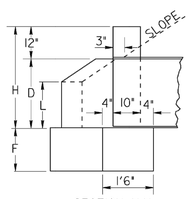


U TYPE WING

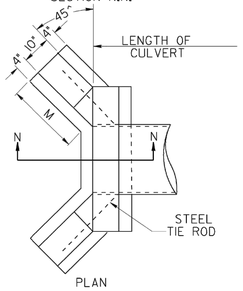
PLAN



FRONT ELEVATION



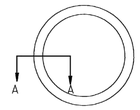
SECTION N.N.



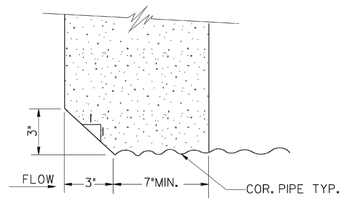
45° WINGS

PLAN

INLET BEVEL DETAIL

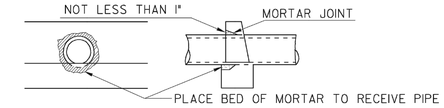


FRONT VIEW



SECTION 'A-A'

METHOD OF EXTENDING PIPE AND RETAINING EXISTING HEADWALL



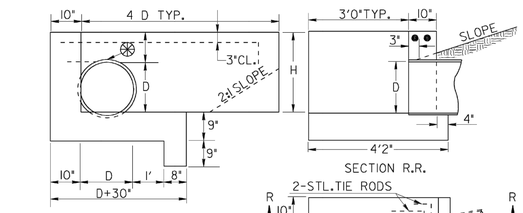
CONCRETE WITHIN THE HATCHED AREA TO BE REMOVED BY CHIPPING OR IN A MANNER APPROVED BY THE ENGINEER, FORMING A RECESS NO LESS THAN I" LARGER THAN THE OUTSIDE DIMENSION OF THE PIPE.

DIMENSIONS							QUANTITIES ONE STRAIGHT ENDWALL				CONC. IN WALL & FTG. FOR EACH ADDL. PIPE LINE
OPENING		WALL		FOOTING			CLASS "B" CONCRETE				
D	AREA SQ. FT.	G	H	B	E	F	CUBIC FEET WALL	CUBIC FEET FOOT	TOTAL CU. FT.	TOTAL CU.YD.	CU.YD.
12"	0.8	4'0"	2'0"	1'2"	1'10"	1'0"	7.2	7.3	14.5	0.54	0.25
15"	1.2	5'0"	2'3"	1'2"	1'10"	1'2"	9.9	10.7	20.6	0.76	0.36
18"	1.8	6'0"	2'6"	1'3"	1'11"	1'3"	13.6	14.4	28.0	1.04	0.48
24"	3.1	8'0"	3'0"	1'4"	2'0"	1'4"	22.3	21.3	43.6	1.62	0.74
30"	4.9	10'0"	3'6"	1'6"	2'2"	1'6"	34.7	32.5	67.2	2.49	1.13
36"	7.1	12'0"	4'0"	1'8"	2'4"	1'8"	50.5	46.7	97.2	3.60	1.62
42"	9.6	14'0"	4'6"	1'10"	2'6"	2'0"	70.3	70.0	140.3	5.20	2.13
48"	12.6	16'0"	5'0"	2'1"	2'9"	2'0"	96.9	88.0	184.9	6.85	2.58
54"	16.0	18'0"	5'6"	2'4"	3'0"	2'0"	129.4	108.0	237.4	8.79	3.07
60"	19.6	20'0"	6'0"	2'6"	3'2"	2'0"	164.6	126.7	291.3	10.79	3.53

FOR EACH ADDITIONAL PIPE LINE, ADD TO G: OD+ID OR 3 FEET, WHICHEVER IS SMALLER)

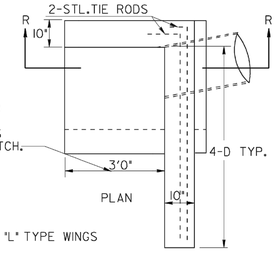
DIMENSIONS							QUANTITIES ONE "U" ENDWALL				
OPENING		WALL			FOOTING		CLASS "B" CONCRETE				STEEL TIE RODS
D	AREA SQ.FT	G	H	K	F	J	CUBIC FEET WALL	CUBIC FEET FOOT	TOTAL CU.FT.	TOTAL CU.YD.	
					2:1 FILL SLOPES						
12"	0.8	3'8"	2'0"	1'0"	1'3"	2'2"	6.6	7.3	13.9	0.52	NONE
15"	1.2	3'11"	2'3"	1'5"	1'3"	2'7"	8.3	9.1	17.4	0.64	NONE
18"	1.8	4'2"	2'6"	1'9"	1'3"	2'11"	9.9	10.7	20.6	0.76	NONE
24"	3.1	4'8"	3'0"	2'6"	1'6"	3'8"	13.9	15.5	29.4	1.09	2-¾"DIA.x2'0"
30"	4.9	5'2"	3'6"	3'3"	1'6"	4'5"	18.7	20.0	38.7	1.43	2-¾"DIA.x2'0"
36"	7.1	5'8"	4'0"	4'0"	1'9"	5'2"	21.2	26.2	50.4	1.87	2-¾"DIA.x2'0"
42"	9.6	6'2"	4'6"	4'9"	2'0"	5'11"	30.3	33.2	63.5	2.35	2-¾"DIA.x2'6"
48"	12.6	6'8"	5'0"	5'6"	2'0"	6'8"	37.3	39.6	76.9	2.85	2-¾"DIA.x3'0"
54"	16.0	7'2"	5'6"	6'3"	2'0"	7'5"	44.2	45.9	90.1	3.33	2-¾"DIA.x3'6"
60"	19.6	7'8"	6'0"	7'0"	2'0"	8'2"	51.1	49.1	100.2	3.71	2-¾"DIA.x4'0"
					3:1 FILL SLOPES						
12"	0.8	3'8"	2'0"	2'0"	1'3"	3'2"	7.7	9.9	17.6	0.65	NONE
15"	1.2	3'11"	2'3"	2'9"	1'3"	3'11"	10.0	12.8	22.8	0.84	NONE
18"	1.8	4'2"	2'6"	3'6"	1'3"	4'8"	12.5	16.0	28.5	1.06	NONE
24"	3.1	4'8"	3'0"	5'0"	1'6"	6'2"	18.8	24.0	42.8	1.58	2-¾"DIA.x2'0"
30"	4.9	5'2"	3'6"	6'6"	1'6"	7'8"	26.3	32.3	58.6	2.17	2-¾"DIA.x2'0"
36"	7.1	5'8"	4'0"	8'0"	1'9"	9'2"	35.1	42.8	77.9	2.89	2-¾"DIA.x2'0"
42"	9.6	6'2"	4'6"	9'6"	2'0"	10'8"	45.4	54.5	99.9	3.70	2-¾"DIA.x2'6"
48"	12.6	6'8"	5'0"	11'0"	2'0"	12'2"	56.9	66.5	123.4	4.57	2-¾"DIA.x3'0"
54"	16.0	7'2"	5'6"	12'6"	2'0"	13'8"	66.7	79.5	146.2	5.41	2-¾"DIA.x3'6"
60"	19.6	7'8"	6'0"	13'4"	2'0"	17'2"	81.0	87.9	168.9	6.25	2-¾"DIA.x4'0"
					4:1 FILL SLOPES						
12"	0.8	3'8"	2'0"	2'8"	1'3"	3'10"	8.4	11.8	20.2	0.75	NONE
15"	1.2	3'11"	2'3"	3'8"	1'3"	4'10"	11.2	15.5	26.6	0.98	NONE
18"	1.8	4'2"	2'6"	4'8"	1'3"	5'10"	14.3	19.6	33.9	1.26	NONE
24"	3.1	4'8"	3'0"	6'8"	1'6"	7'10"	22.0	29.8	51.8	1.92	2-¾"DIA.x2'0"
30"	4.9	5'2"	3'6"	8'8"	1'6"	9'10"	31.3	40.7	72.0	2.67	2-¾"DIA.x2'0"
36"	7.1	5'8"	4'0"	10'8"	1'9"	11'10"	42.5	54.1	96.6	3.58	2-¾"DIA.x2'0"
42"	9.6	6'2"	4'6"	12'8"	2'0"	13'10"	55.4	69.2	124.6	4.61	2-¾"DIA.x2'6"
48"	12.6	6'8"	5'0"	14'8"	2'0"	15'10"	70.0	84.8	154.8	5.73	2-¾"DIA.x3'0"
54"	16.0	7'2"	5'6"	16'8"	2'0"	17'10"	86.4	101.9	188.3	6.97	2-¾"DIA.x3'6"
60"	19.6	7'8"	6'0"	18'8"	2'0"	19'10"	104.7	120.5	225.2	8.34	2-¾"DIA.x4'0"

DIMENSIONS							QUANTITIES ONE ENDWALL WITH 45° WING WALLS				
OPENING		WALL			FOOTING		CLASS "B" CONCRETE				STEEL TIE RODS
D	AREA SQ. FT.	H	G	L	M	F	CUBIC FEET WALL	CUBIC FEET FOOT	TOTAL CU.FT.	TOTAL CU.YD.	
					2:1 SLOPES						
18"	1.8	2'6"	3'10"	1'2"	1'7"	1'3"	9.3	10.7	20.0	0.74	NONE
24"	3.1	3'0"	4'4"	1'5"	2'1"	1'4"	13.1	14.4	27.5	1.02	2-¾"DIA.x2'0"
30"	4.9	3'6"	4'10"	1'9"	2'5"	1'6"	17.4	18.8	36.7	1.34	2-¾"DIA.x2'0"
36"	7.1	4'0"	5'4"	2'0"	2'11"	1'8"	22.6	24.6	47.2	1.75	2-¾"DIA.x3'0"
42"	9.6	4'6"	5'10"	2'3"	3'6"	2'0"	29.1	34.6	63.7	2.36	2-¾"DIA.x3'0"
48"	12.6	5'0"	6'4"	2'6"	4'0"	2'0"	35.9	39.1	75.0	2.78	2-¾"DIA.x3'0"
54"	16.0	5'6"	6'10"	2'9"	4'6¼"	2'0"	42.9	46.6	89.5	3.31	2-¾"DIA.x3'0"
60"	19.6	6'0"	7'4"	3'0"	5'0½"	2'0"	51.8	51.1	102.9	3.81	2-¾"DIA.x3'0"
					3:1 SLOPES						
18"	1.8	2'6"	3'10"	1'2"	1'9"	1'3"	10.7	14.5	25.2	0.93	NONE
24"	3.1	3'0"	4'4"	1'5"	2'10"	1'4"	16.6	17.8	34.4	1.27	2-¾"DIA.x2'0"
30"	4.9	3'6"	4'10"	1'9"	3'6"	1'6"	22.9	24.4	47.3	1.71	2-¾"DIA.x2'0"
36"	7.1	4'0"	5'4"	2'1"	4'3"	1'8"	30.2	32.0	62.2	2.30	2-¾"DIA.x3'0"
42"	9.6	4'6"	5'10"	2'5"	4'11"	2'0"	38.8	44.0	82.8	3.07	2-¾"DIA.x3'0"
48"	12.6	5'0"	6'4"	2'8"	5'6"	2'0"	47.5	48.6	96.1	3.56	2-¾"DIA.x3'0"
54"	16.0	5'6"	6'10"	3'2"	6'1"	2'0"	57.0	53.4	110.4	4.09	2-¾"DIA.x3'0"
60"	19.6	6'0"	7'4"	3'6"	6'9"	2'0"	68.5	59.1	127.6	4.73	2-¾"DIA.x3'0"



SECTION R.R.

FRONT ELEVATION



PLAN

CONCRETE ENDWALLS WITH "L" TYPE WINGS

NOTE: THE 3'-0" DIMENSION IS BASED ON DITCH SECTION I' DEEP. VARY ACCORDING TO DITCH SECTION SO AS TO KEY I'0" INTO BACK SLOPE OF DITCH.

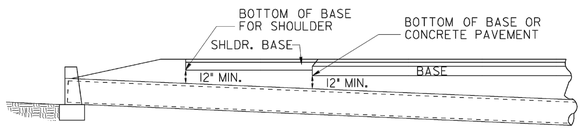
NOTE: THESE QUANTITIES WILL VARY ACCORDING TO DITCH SECTION AND ARE TO BE USED FOR ESTIMATING PURPOSES ONLY. PAYMENT TO BE MADE ACCORDING TO QUANTITIES MEASURED AS ACTUALLY PLACED.

DIMENSIONS					QUANTITIES ONE "L" ENDWALL	
D	AREA SQ.FT.	H MIN.	4D TYP.	D+30 TYP.	CU. YD. CONC.	STEEL TIE RODS
15"	1.2	2'3"	5'0"	3'9"	1.08	2-¾"DIA.x5'0"
18"	1.8	2'6"	6'0"	4'0"	1.24	2-¾"DIA.x6'0"
24"	3.1	3'0"	8'0"	4'6"	1.59	2-¾"DIA.x8'0"
30"	4.9	3'6"	10'0"	5'0"	2.00	2-¾"DIA.x10'0"
36"	7.1	4'0"	12'0"	5'6"	2.46	2-¾"DIA.x12'0"
42"	9.6	4'6"	14'0"	6'0"	2.98	2-¾"DIA.x14'0"
48"	12.6	5'0"	16'0"	6'6"	3.53	2-¾"DIA.x16'0"
54"	16.0	5'6"	18'0"	7'0"	4.13	2-¾"DIA.x18'0"
60"	19.6	6'0"	20'0"	7'6"	4.85	2-¾"DIA.x20'0"

3:1 FILL SLOPES

NOTE:
QUANTITIES OF CONCRETE ARE BASED ON INSIDE DIAMETER OF PIPE. NO DEDUCTIONS SHALL BE MADE FOR SHELL THICKNESS OR SKEW OF PIPE IN COMPUTING PAY QUANTITIES.

SECTION SHOWING MINIMUM COVER OVER CULVERTS



NOTE: GRADE GENERALLY TO FOLLOW SLOPE OF STREAM.

⊛ IF PIPE HAS NEITHER A GROOVE NOR A SPIGOT AT ITS INLET, AN INLET BEVEL WILL BE REQ'D.

NOTE TO DESIGNER

THIS STANDARD IS LIMITED FOR USE ONLY AT SPECIAL CONDITIONS, OTHERWISE, SEE CURRENT STANDARDS 1120 & 1125.

HEADWALLS ARE NOT TO BE PLACED INSIDE THE CLEAR ZONE.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
PIPE CULVERT
CONCRETE HEADWALL

NO SCALE

REV. & REDR. AUG. 1999

DESIGNED
TRACED
CHECKED

(SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGINEER

(APPROVED) CHIEF ENGINEER

NUMBER 1001-B

DATE | REVISION | BY

GMC
6120 Powers Ferry Road NW, Suite 350
Atlanta, GA 30339
T 770.952.2481
GMCNETWORK.COM

ISSUE | DATE
BID SET | 2025.05.22

DRAWN BY:
CHECKED BY: LKR

PERROW PARK
JASPER, GA

LATL240013

DETAILS

C-907

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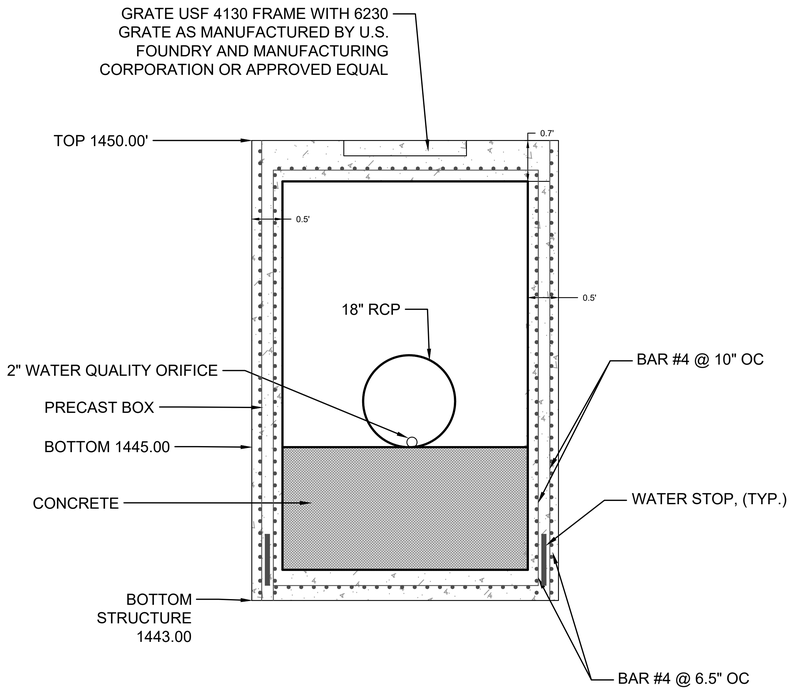
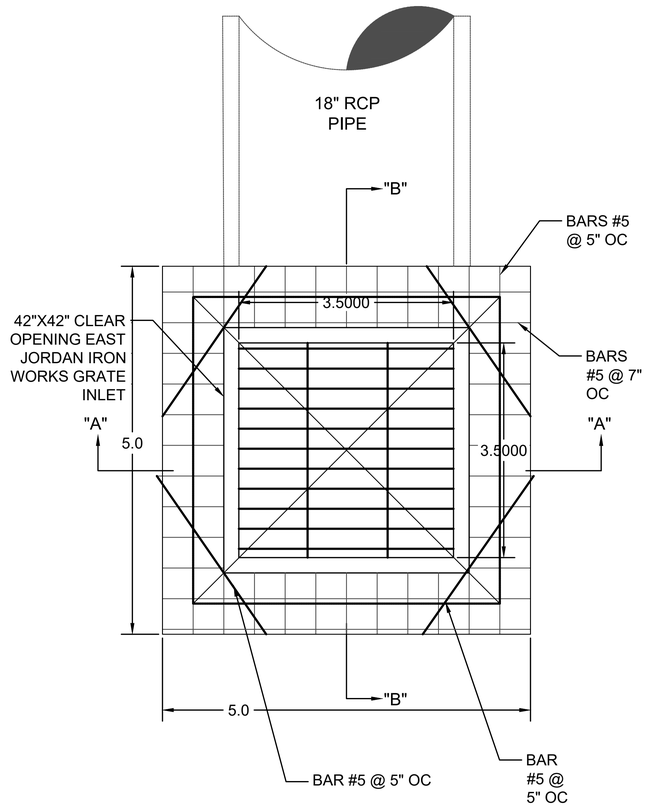
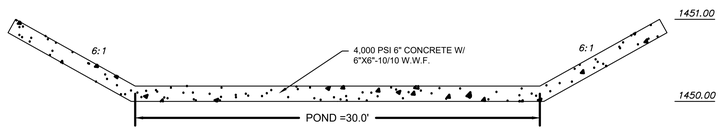




NOTE: ALL JOINTS SHALL BE WATERTIGHT

N.T.S. WATER QUALITY POND STRUCTURE



CONCRETE WEIR
N.T.S.

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6120 Powers Ferry Road NW, Suite 350
Atlanta, GA 30339
T 770.952.2481
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DETAILS

C-908

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PLOTTED: May 21, 2025 - 3:14pm

RECEPTACLE LEGEND

WP	QUADPLEX GROUND FAULT CIRCUIT INTERRUPTER (5mA) RECEPTACLE WALL MOUNTED 18" A.F.F. TO CENTER UNO. "WP" INDICATES WEATHERPROOF "IN-USE" EXTRA DUTY 2 GANG METAL COVER, DEVICE "WEATHER-RESISTANT" RATED.
P	EXTERIOR LANDSCAPE DUPLEX GROUND FAULT CIRCUIT INTERRUPTER (5mA) RECEPTACLE. "P" INDICATES RECEPTACLE MOUNTED WITH WEATHERPROOF LANDSCAPING FRAME. COORDINATE WITH LANDSCAPING DRAWINGS FOR EXACT MODEL OF RECEPTACLE MOUNTING DEVICE.
	SIMPLEX 50A 240V TWISTLOCK RECEPTACLE WALL MOUNTED 18" A.F.F. TO CENTER UNO. "WP" INDICATES WEATHERPROOF "IN-USE" EXTRA DUTY SINGLE GANG METAL COVER, DEVICE "WEATHER-RESISTANT" RATED. PRODUCT TO BE MODEL CS-6346 OR APPROVED EQUAL.

LIGHTING LEGEND

XE	4' STRIP LED UNO. SURFACE MOUNTED TO STAGE STRUCTURE. LETTER 'D' SHALL BE A METALUX 4SNLED-LD5-33SL-LW-UNV-L840-CD-1 OR APPROVED EQUAL.
X	EXTERIOR PEDESTRIAN LIGHTING FIXTURE. FIXTURE TO BE SELECTED BY LANDSCAPING ARCHITECT. COORDINATE WITH LANDSCAPING DRAWINGS
X	POLE MOUNTED LIGHT FIXTURE. FIXTURE TO BE SELECTED BY LANDSCAPING ARCHITECT. COORDINATE WITH LANDSCAPING DRAWINGS.

SWITCH LEGEND

$	WALL SWITCH SPST 42" AFF TO CENTER UNO 20A 120/277V. "WG" INDICATES WEATHERPROOF INSTALLATION.

POWER LEGEND

	ELECTRICAL SPACE FOR ELECTRICAL EQUIPMENT. SEE POWER RISER FOR MORE INFORMATION ON INSTALLATION REQUIREMENTS.

BRANCH CIRCUIT LEGEND

	CONDUIT OR RACEWAY CONCEALED IN CEILING CAVITY OR WALL.
	CONDUIT OR RACEWAY UNDERGROUND OR CONCEALED IN FLOOR SLAB.
—US—	UNDERGROUND SECONDARY.
	PHASE CONDUCTOR, NEUTRAL CONDUCTOR AND ISOLATED GROUND CONDUCTOR.
	HOMERUN. TICKS INDICATES NUMBER OF CONDUCTORS NO TICKS INDICATES 1 PHASE, 1 NEUTRAL, 1 GROUND CONDUCTOR.
	UNDERGROUND HOMERUN. ARROW INDICATES NUMBER OF CIRCUITS. TICKS INDICATES NUMBER OF CONDUCTORS NO TICKS INDICATES 1 PHASE, 1 NEUTRAL, 1 GROUND CONDUCTOR.

GENERAL ELECTRICAL NOTES

1. THE CONTRACTOR IS RESPONSIBLE TO FURNISH ALL LABOR, EQUIPMENT, MATERIALS, AND SUPPLIES AS NECESSARY FOR A NEAT, COMPLETE, AND SATISFACTORY OPERATING ELECTRICAL SYSTEMS WHICH CONFORMS TO ALL LOCAL CODES, PLANS, AND SPECIFICATIONS.
2. ELECTRICAL CONTRACTOR SHALL REVIEW ENTIRE SET OF CONTRACT DOCUMENTS INCLUDING BUT NOT NECESSARILY LIMITED TO ALL CIVIL, ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND ENTIRE PROJECT MANUAL. ELECTRICAL CONTRACTOR SHALL ACKNOWLEDGE AND INCLUDE IN THE SCOPE OF WORK (CONTRACT) ALL CONDITIONS PERTINENT TO THE COMPLETION OF THE ELECTRICAL WORK. ELECTRICAL CONTRACTOR SHALL FULLY COORDINATE ELECTRICAL WORK WITH THE INSTALLATION OF WORK BY ALL OTHER TRADES AND MAKE NECESSARY FIELD ADJUSTMENTS AS REQUIRED TO ACCOMMODATE THE INSTALLATION. ALL OF THE ABOVE SHALL BE INCLUDED IN THE SCOPE OF WORK AT NO ADDITIONAL COST TO THE OWNER.
3. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE, IT SHALL NOT BE THE INTENT OF ISSUED PLANS AND/OR SPECIFICATIONS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE ELECTRICAL CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL NECESSARY ITEMS FOR A COMPLETE AND OPERATING SYSTEM.
4. ALL INSTALLATIONS SHALL CONFORM TO THE LATEST EDITION OF ENFORCED INTERNATIONAL BUILDING CODE AND NFPA-70 AT THE TIME OF PERMIT.
5. EACH BIDDER SHALL VISIT THE JOB SITE PRIOR TO BIDDING TO FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND TO ASCERTAIN THE EXTENT OF WORK REQUIRED. FAILURE TO VISIT SITE SHALL NOT EXCUSE CONTRACTOR FROM PERFORMING REQUIRED WORK NOR SHALL IT BE AN ACCEPTABLE REASON FOR REQUESTING ADDITIONS TO THE CONTRACT.
6. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BE LISTED BY AN AGENCY SUCH AS UNDERWRITER'S LABORATORIES (UL), ELECTRICAL TESTING LABORATORY (ETL), ETC AND ACCEPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION. FOR THE USE INTENDED WHERE A STANDARD FOR SUCH MATERIALS AND USE EXISTS. ALL ITEMS OF THE SAME TYPE AND RATING SHALL BE IDENTICAL AND OF THE SAME MANUFACTURER.
7. THE WORD "PROVIDE" MEANS THAT THIS CONTRACTOR SHALL FURNISH, FABRICATE, ERECT, CONNECT, AND COMPLETELY INSTALL SYSTEMS IN PROPER OPERATING CONDITION. ALL LABOR, PRODUCT OPTIONS, ACCESSORIES AND INCIDENTAL MATERIALS REQUIRED SHALL BE INCLUDED AS PART OF THIS WORK TO COMPLETE THE INSTALLATION.
8. THE ELECTRICAL DRAWINGS INDICATE REQUIREMENTS OF MECHANICAL/PLUMBING/FIRE PROTECTION/KITCHEN EQUIPMENT BASED ON RESPECTIVE DRAWINGS AND SPECIFICATIONS. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL CONNECTIONS PRIOR TO ROUGH-IN USING APPROVED CATALOG SHEETS AND SHOP DRAWINGS. ACTUAL EQUIPMENT SUPPLIED MAY DIFFER, ELECTRICAL CONTRACTOR SHALL COORDINATE WITH OTHER TRADE DISCIPLINES TO INSURE ANY CHANGES WILL BE INSTALLED CORRECTLY AT THE EXPENSE OF THE DISCIPLINE RESPONSIBLE MAKING THE CHANGES AND/OR SUBSTITUTIONS THAT VARY FROM THE CONSTRUCTION DOCUMENTS.
9. ALL ELECTRICAL CONNECTIONS WILL BE CODE COMPLIANT WITH N.E.C.
10. WIRING SYSTEMS SHALL CONSIST OF COPPER WIRING INSTALLED IN CONDUIT, MINIMUM WIRE SIZE SHALL BE #12AWG, MINIMUM CONDUIT SIZE SHALL BE 3/4".
11. CONDUCTORS SHALL BE 99% COPPER (NO ALUMINUM CONDUCTORS WILL BE ACCEPTED). MINIMUM SIZE #12 AWG-3/4" C.
12. SUBSURFACE CONDUIT SHALL BE SCHEDULE 40 PVC UNO. FOR RUNS GREATER THAN 50 FEET IN LENGTH, VERTICAL TURN UPS SHALL BE GRS SWEEP 90S WITH A BITUMASTIC COATING UNO.
13. CONTRACTOR SHALL REPAIR ANY DISTURBED AREA TO SAME COMPACTION, GRADE, SLOPE, ETC. AS ORIGINAL AREA INCLUDING REPLACEMENT OF SOD, GRASS, ROCK, GRAVEL, RIP-RAP, ETC. TO THE SATISFACTION OF THE OWNER AND ENGINEER.
14. CONTRACTOR SHALL REPAIR AND PATCH ALL WALLS, FLOORS, PENETRATIONS, ETC. TO MATCH THE ADJACENT SURFACE WHERE EQUIPMENT IS BEING REMOVED OR IF NECESSARY FOR THE INSTALLATION OF NEW EQUIPMENT UNDER THIS CONTRACT.
15. ANY AREA OF CONSTRUCTION DAMAGED DURING THIS CONTRACT SHALL BE REPAIRED TO MATCH ADJACENT SURFACES.
16. WITHIN ALL AREAS OF WORK, ALL UNUSED OR ABANDONED ELECTRICAL CONDUIT, CONDUCTORS, FITTINGS AND SUPPORTS SHALL BE REMOVED.
17. REMOVE ANY SPILLED DIRT, CONCRETE, ETC. FROM ANY DRIVEWAYS, ROADWAYS OR CONSTRUCTION SITE AS DIRECTED BY ARCHITECTURAL INSPECTOR.
18. CLEAN UP ALL DEBRIS AROUND CONSTRUCTION SITE DAILY.
19. ELECTRICAL CONTRACTOR SHALL ADJUST WIRE SIZE BASED ON ACTUAL INSTALLATION LENGTH VERSUS DESIGN DISTANCES MAXIMUM ALLOWED VOLTAGE DROP IS 3%.

ELECTRICAL ABBREVIATIONS

A, AMP	AMPERE	GRS	GALVANIZED RIGID STEEL	ST	SHUNT TRIP
ACSR	ALUMINUM CONDUCTOR STEEL-REINFORCED	HD	HAND DRYER	SWBD	SWITCHBOARD
AF	AMPS FRAME	HP	HORSEPOWER	TEL	TELEPHONE
AFF	ABOVE FINISHED FLOOR	KV	KILOVOLT	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
AIC	AMPS INTERRUPTING CAPACITY (SYM RMS)	KVA	KILOVOLT AMPERES	TYP	TYPICAL
AT	AMPS TRIP	KW	KILOWATT	UG	UNDERGROUND
AWG	AMERICAN WIRE GAUGE	MIN	MINIMUM	UNO	UNLESS NOTED OTHERWISE
(#)C	FIXTURE DESIGNATION (#) INDICATES #OF FIXTURES TOTAL	N12	NEMA 12 RATED FOR DUST ENCLOSURE	V	VOLT
C	CONDUIT	N3R	NEMA 3R RATED FOR EXTERIOR USE	VA	VOLT AMPERE
CKT	CIRCUIT	NIC	NOT IN THIS CONTRACT	W	WATT
CU	COPPER	NL	NIGHT LIGHT	WP	WEATHERPROOF
DETD	DUAL ELEMENT TIME DELAY	NEC	NATIONAL ELECTRIC CODE	UNO	UNLESS NOTED OTHERWISE
EC	EMPTY CONDUIT	PNL	PANEL	UP	UNDERGROUND PRIMARY
ELEC	ELECTRIC OR ELECTRICAL	P	POLE	US	UNDERGROUND SECONDARY
EPR	ETHYLENE-PROPYLENE RUBBER INSULATION	PH	PHASE	XFMR	TRANSFORMER
ER	EXISTING ITEM TO BE REMOVED	PSI	POUNDS PER SQUARE INCH	#	NUMBER
EX	EXISTING TO REMAIN	PVC	POLYVINYL CHLORIDE		
EXIST	EXISTING	RECPT	RECEPTACLE		
FACP	FIRE ALARM CONTROL PANEL	REQD	REQUIRED		
GFI	GROUND FAULT INTERRUPTER	RL	EXISTING ITEM TO BE RELOCATED		
G	GROUND	RU	RACK UNIT		
GFE	GOVERNMENT FURNISHED EQUIPMENT	SPD	SURGE PROTECTIVE DEVICE		
		SPEC	SPECIFICATIONS		

GMC
6120 Powers Ferry Road NW, Suite 350
Atlanta, GA 30339
T 770.952.2481
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ELECTRICAL LEGENDS & NOTES

GE0.01

sheet of

1. GENERAL:

A. THE WORK COVERED BY THESE SPECIFICATIONS CONSISTS OF FURNISHING ALL LABOR, EQUIPMENT, MATERIALS, AND SUPPLIES AS NECESSARY FOR THE COMPLETE AND SATISFACTORY OPERATING ELECTRICAL SYSTEMS AS SHOWN ON THE PLANS.

B. ALL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, NFPA, STATE BUILDING CODE, AND ANY OTHER LOCAL REQUIREMENTS THAT MAY APPLY. CONTRACTOR SHALL PAY FOR ALL REQUIRED PERMITS, FEES, INSPECTIONS, ETC.

C. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL ELECTRICAL PERMITS AND INSPECTION FEES.

D. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BE LISTED BY THE UNDERWRITER'S LABORATORIES, INC. OR BY A STATE APPROVED THIRD PARTY TESTING AGENCY FOR THE USE INTENDED WHERE A STANDARD FOR SUCH MATERIALS AND USE EXISTS. ALL ITEMS OF THE SAME TYPE AND RATING SHALL BE IDENTICAL AND OF THE SAME MANUFACTURER.

E. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND CATALOG DATA IN ELECTRONIC FORMAT (PDF) FOR ALL ELECTRICAL ITEMS IN THE SCOPE OF WORK, INCLUDING, BUT NOT LIMITED TO, RACEWAYS, BOXES, FITTINGS, CONDUCTORS, LUMINAIRES, LAMPS, BALLASTS, WIRING DEVICES, SAFETY SWITCHES, DISCONNECTS, TRANSFORMERS, PANELBOARDS, SWITCHBOARDS, SWITCHGEARS, MOTOR CONTROL CENTERS (MCC), BUSWAYS, GENERATORS, AUTOMATIC TRANSFER SWITCHES (ATS), UNINTERRUPTIBLE POWER SUPPLY (UPS), POWER DISTRIBUTION UNITS (PDU), FLOOR/REMOTE DISTRIBUTION CABINETS (FDC/RDC), STATIC TRANSFER SWITCHES (STS), FIRE ALARM, TELECOMMUNICATIONS, ETC. FOR APPROVAL AS APPLICABLE FOR THE PROJECT. ONE COMPLETE SET OF APPROVED SUBMITTALS SHALL BE MAINTAINED AT THE JOB SITE.

F. ALL COST ASSOCIATED WITH SUBSTITUTED EQUIPMENT TO COMPLY WITH THE BASIS OF DESIGN, INCLUDING PROVIDING MAINTENANCE ACCESS, CLEARANCE, CONDUIT, WIRING, REPLACEMENT OF OTHER SYSTEM COMPONENTS, BUILDING ALTERATIONS, METHODS, ETC., SHALL BE INCLUDED IN THE ORIGINAL BASE BID. NO ADDITIONAL COSTS ASSOCIATED WITH SUBSTITUTED EQUIPMENT WILL BE APPROVED AFTER BIDS HAVE BEEN ACCEPTED AND ALL COSTS WILL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. CREDITS SHALL BE GIVEN TO THE OWNER WHERE SUCH EQUIPMENT AND METHODS RESULT IN LESS EXPENSE TO THE CONTRACTOR.

G. ONE COMPLETE SET OF THE LATEST CONSTRUCTION PLANS OF ALL TRADES SHALL BE MAINTAINED AT THE JOB SITE. IN ADDITION, ALL ADDENDUMS, BULLETINS, AND/OR SKETCHES SHALL BE INCORPORATED INTO THE ON-SITE CONSTRUCTION PLANS AS THE JOB PROGRESSES.

H. COMPLETELY ADEQUATE HOUSING SHALL BE PROVIDED FOR ALL MATERIALS STORED ON JOB SITE. ONLY CONDUIT MAY BE STORED OUTSIDE, BUT NOT IN CONTACT WITH THE GROUND.

I. THE CONDUIT AND NEUTRAL SYSTEM SHALL BE GROUNDED AT THE MAIN SERVICE EQUIPMENT. GROUNDING ELECTRODE SYSTEM SHALL BE INSTALLED PER NEC 250.

J. PROVIDE AN INTERSYSTEM BONDING TERMINATION DEVICE AT THE MAIN ELECTRICAL SERVICE PER NEC 250.94.

K. WIRING SHALL BE TESTED FOR CONTINUITY AND GROUNDS BEFORE BEING ENERGIZED. FAULTY WIRING SHALL BE REPLACED AT NO ADDITIONAL EXPENSE TO THE OWNER.

L. PROVIDE ALL CUTTING AND PATCHING FOR INSTALLATION OF WORK AND REPAIR ANY DAMAGE DONE.

M. THE ELECTRICAL CONTRACTOR SHALL CONNECT ALL EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS (UNLESS OTHERWISE NOTED), EXCEPT FOR CONTROL WIRING FOR EQUIPMENT NOT PROVIDED BY THE ELECTRICAL CONTRACTOR. CONTROL WIRING FOR SUCH EQUIPMENT SHALL BE PROVIDED BY THE RESPECTIVE DISCIPLINE.

N. ALL ELECTRICAL JUNCTION BOXES, SWITCHGEAR, CABLING, VOICE/DATA OUTLETS, LOW VOLTAGE CABINETS, EMERGENCY RECEPTACLES, ETC. SHALL BE LABELED ACCORDING TO PANEL/RACK AND CIRCUIT NUMBER.

O. UPON COMPLETION OF WORK, CONTRACTOR SHALL PRESENT ENGINEER WITH CERTIFICATE OF APPROVAL FROM LOCAL INSPECTOR AND/OR AUTHORITY HAVING JURISDICTION BEFORE WORK WILL BE APPROVED FOR FINAL PAYMENT.

P. CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS FOR A PERIOD OF ONE YEAR EFFECTIVE THE DATE THE PROJECT IS ACCEPTED BY THE OWNER. ANY IMPERFECT MATERIALS OR WORKMANSHIP SHALL BE REPLACED WITHOUT ADDED COST TO THE PROJECT.

Q. IT SHALL NOT BE THE INTENT OF ISSUED PLANS AND/OR SPECIFICATIONS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE ELECTRICAL CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL NECESSARY ITEMS FOR A COMPLETE AND OPERATING SYSTEM.

R. THE WORD "PROVIDE" MEANS THAT THIS CONTRACTOR SHALL FURNISH, FABRICATE, ERECT, CONNECT, AND COMPLETELY INSTALL SYSTEMS IN PROPER OPERATING CONDITION. ALL LABOR, PRODUCT OPTIONS, ACCESSORIES AND INCIDENTAL MATERIALS REQUIRED SHALL BE INCLUDED AS PART OF THIS WORK TO COMPLETE THE INSTALLATION.

S. THE WORD "CONNECT" MEANS THAT THIS CONTRACTOR SHALL PROVIDE (SEE DEFINITION ABOVE) ALL DISCONNECTING MEANS, OVERCURRENT PROTECTION AND WIRING REQUIRED TO PLACE THE EQUIPMENT AND SYSTEMS IN PROPER OPERATING CONDITION AND TO COMPLY WITH CODE REQUIREMENTS.

T. CONTRACTOR SHALL COORDINATE THE ROUGH-IN OF ALL OUTLET LOCATIONS WITH ARCHITECTURAL FLOOR PLANS, ELEVATIONS, AND MILLWORK SHOP DRAWINGS PRIOR TO ROUGH-IN.

U. ELECTRICAL CONTRACTOR SHALL NOT SCALE PLANS. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATIONS OF ALL EQUIPMENT, UNLESS OTHERWISE NOTED.

V. CONTRACTOR SHALL TEST ALL "LIFE SAFETY" EQUIPMENT AND SYSTEMS FOR PROPER FUNCTION AND OPERATION. UPON SUCCESSFUL COMPLETION OF TESTS, CONFIRMATION SHALL BE SENT TO THE ENGINEER OF RECORD IN THE FORM OF A LETTER STATING THE TESTS PERFORMED, THE RESULTS, AND THE DATE TESTS WERE SUCCESSFULLY COMPLETE. "LIFE SAFETY" EQUIPMENT AND SYSTEMS CONSIST OF THOSE AS SPECIFIED IN THE STATE BUILDING CODE, THE NATIONAL ELECTRICAL CODE (NEC), NFPA 101, AND ANY OTHER LOCAL REQUIREMENTS THAT MAY APPLY.

W. IF DURING THE COURSE OF WORK, THE CONTRACTOR DISCOVERS A PROBLEM WITH THE PERFORMANCE OF THE INSTALLATION RELATIVE TO THE PLANS AND SPECIFICATIONS, THE NEC, OR OTHER CODES OR REQUIREMENTS, THE CONTRACTOR SHALL IMMEDIATELY BRING THE PROBLEM TO THE ATTENTION OF THE ARCHITECT AND/OR ENGINEER FOR RESOLUTION PRIOR TO THE EXECUTION OF THE WORK.

X. WHERE THERE ARE CONFLICTS BETWEEN THE PLANS AND SPECIFICATIONS, THE CONTRACTOR SHALL BRING THE ISSUE TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION PRIOR TO THE EXECUTION OF THE WORK OR ORDERING ANY MATERIALS. NO ADDITIONAL COSTS SHALL BE WARRANTED WITHOUT A CHANGE TO THE PROJECT SCOPE.

Y. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PROVIDING TEMPORARY POWER AND LIGHTING FOR ALL TRADES. AT NO TIME SHALL EXISTING BUILDING POWER SYSTEMS BE UTILIZED WITHOUT WRITTEN PERMISSION FROM THE OWNER.

Z. COORDINATE LOCATION AND REQUIREMENTS FOR ELECTRICAL SERVICE WITH THE POWER COMPANY. WHERE MORE THAN ONE SERVICE IS SUPPLIED TO A BUILDING, PROVIDE IDENTIFICATION AT EACH SERVICE PER NEC 230-2(E).

AA. COORDINATE LOCATION AND REQUIREMENTS FOR TELEPHONE SERVICE WITH THE TELEPHONE COMPANY.

AB. THE CONTRACTOR SHALL PROVIDE A MINIMUM TWO WEEK NOTICE FOR ANY PLANNED UTILITY OUTAGES. WRITTEN AUTHORIZATION FROM THE OWNER SHALL BE PROVIDED PRIOR TO ANY OUTAGE. ALL PLANNED UTILITY OUTAGES SHALL BE COORDINATED WITH THE OWNER TO OCCUR DURING NON-OPERATING TIMES, INCLUDING NIGHTS, WEEKENDS AND HOLIDAYS. ALL PLANNED UTILITY OUTAGES SHALL INCLUDE PROVISIONS FOR PROPER BACK-UP OF ALL LIFE-SAFETY SYSTEMS AND INCLUDE AN APPROVED FIRE-WATCH PROGRAM AS REQUIRED BY THE LOCAL FIRE MARSHALL.

AC. EACH BIDDER SHALL VISIT THE JOB SITE PRIOR TO BIDDING TO FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND TO ASCERTAIN THE EXTENT OF WORK REQUIRED. FAILURE TO VISIT SITE SHALL NOT EXCUSE CONTRACTOR FROM PERFORMING REQUIRED WORK NOR SHALL IT BE AN ACCEPTABLE REASON FOR REQUESTING ADDITIONS TO THE CONTRACT.

2. RACEWAY:

A. CONDUIT SHALL BE MANUFACTURED BY ALLIED, WHEATLAND, REPUBLIC CONDUIT, WESTERN TUBE, OR APPROVED EQUIVALENT.

B. FOR INTERIOR WORK, CONDUIT SHALL BE ZINC COATED EMT EXCEPT WHERE NOT PERMITTED BY CODE. USE SCHEDULE 40 PVC BELOW CONCRETE SLAB, IN DUCTBANKS, AND FOR EXTERIOR WORK WHERE NOT SUBJECT TO DAMAGE. USE IMC WHERE SUBJECT TO PHYSICAL DAMAGE.

C. EMT FITTINGS SHALL BE COMPRESSION GLAND TYPE, OF MALLEABLE STEEL. CONNECTORS SHALL HAVE INSULATED THROATS. CAST, SET SCREW, OR INDENTER TYPE FITTINGS ARE NOT ACCEPTABLE. ALL FITTINGS FOR EMT SHALL BE MADE OF STEEL.

D. ALL RACEWAY SHALL BE RUN CONCEALED, UNLESS OTHERWISE NOTED. FISH ALL NEW OUTLETS IN EXISTING WALLS, WHERE POSSIBLE. ALL RUNS SHALL BE NEAT AND SQUARE.

E. RACEWAY PENETRATIONS THROUGH FLOOR SLABS AND FIRE-RATED WALLS SHALL BE FILLED WITH IMPERVIOUS, NON-SHRINK GROUT SUFFICIENTLY TIGHT TO PREVENT THE TRANSFER OF SMOKE, WATER, AND DUST. ROOF PENETRATIONS SHALL BE WITHIN THE EQUIPMENT ROOF CURB.

F. SUPPORT ALL CONDUIT WITH STRAPS AND CLAMPS.

G. ALL CONDUIT SHALL BE RUN PARALLEL OR PERPENDICULAR TO BUILDING LINES, WHETHER EXPOSED OR NOT AND SUPPORTED FROM STRUCTURE AND PROPERLY SECURED.

H. WHERE CONDUITS PASS THROUGH A BUILDING EXPANSION JOINT, PROVIDE GALVANIZED EXPANSION FITTINGS WITH BONDING JUMPERS.

I. MINIMUM CONDUIT SIZE SHALL BE 3/4" FOR INTERIOR WORK, 1" FOR EXTERIOR WORK.

J. PROVIDE MINIMUM 210# TEST NYLON PULL CORD AND NYLON BUSHINGS IN ALL EMPTY RACEWAYS.

K. LIQUID-TIGHT METAL CONDUIT SHALL ONLY BE USED FOR FINAL CONNECTIONS TO EQUIPMENT AND ALL OTHER ROTATING AND VIBRATING EQUIPMENT, MAXIMUM LENGTH OF 3'-0".

L. FLEXIBLE METAL CONDUIT, MINIMUM SIZE 1/2", SHALL ONLY BE USED FOR FINAL CONNECTION TO LIGHTING FIXTURES, MAXIMUM LENGTH OF 6'-0".

M. PROVIDE PULL BOXES, SUCH THAT NO SINGLE CONDUIT RUN HAS BENDS IN EXCESS OF 360°. PULL BOXES SHALL BE SUITABLE AND APPROVED FOR THE INTENDED USE. WHERE CONDUITS PASS UNDER PAVED AREAS, THEY SHALL BE RGS.

N. ALL CONDUIT BENDS/ELBOWS EMERGING FROM UNDERGROUND SHALL BE IMC AND SHALL EXTEND A MINIMUM OF 18" BELOW GRADE.

O. ALL UNDERGROUND RACEWAYS SHALL BE THOROUGHLY COATED WITH TWO COATS OF ASPHALTUM BITUMASTIC.

P. ALL CONDUITS INSTALLED UNDERGROUND OR IN CONCRETE SHALL HAVE JOINTS MADE WATERTIGHT BY USE OF POLYETRA-FLUOROETHYLENE TAPE.

Q. THE USE OF AC OR NM CABLE IS NOT PERMITTED.

R. MC CABLE MAY ONLY BE UTILIZED WHERE PERMITTED BY CODE AND IT SHALL ONLY BE ALLOWED WHERE CONCEALED BEHIND HARD WALLS AND HARD CEILINGS. MC CABLE SHALL NOT BE EXPOSED.

S. APPROVED SEALS SHALL BE PROVIDED IN HAZARDOUS LOCATIONS AS REQUIRED BY THE NEC.

3. OUTLET BOXES:

A. JUNCTION AND PULL BOXES SHALL BE CODE GAUGE GALVANIZED STEEL. ACCEPTED MANUFACTURERS SHALL BE STEEL CITY (THOMAS & BETTS), RACO, CROUSE-HINDS, APPLETON (EMERSON), OR APPROVED EQUIVALENT.

B. OUTLET BOXES SHALL NOT BE MOUNTED BACK TO BACK IN COMMON WALLS.

C. ATTACH EMT WITH CONNECTORS HAVING INSULATED THROAT.

D. ATTACH BOXES TO STUD WORK USING CADDY BAR STRAPS THAT CONNECT TO TWO ADJACENT STUDS TO PREVENT TWISTING OF BOX IN WALL.

E. ALL OUTLET BOXES (INCLUDING TELEPHONE, CABLE TV, AND COMPUTER) SHALL HAVE COVER PLATES, BLANK IF NOT USED.

F. ALL EXTERIOR BOXES SHALL BE WATER-TIGHT.

4. CONDUCTORS:

A. CONDUCTORS SHALL BE MANUFACTURED BY SOUTHWIRE (SIMPULL), ENCORE (SUPERSLICK), UNITED COPPER (SLK), CERRO (SLP), OR APPROVED EQUAL, "PRE-LUBRICATED" BY THE MANUFACTURER.

B. ALL CONDUCTORS SHALL BE COPPER, RATED 75° C WET/DRY EXCEPT WHERE OTHERWISE NOTED OR REQUIRED BY U.L. OR OTHER CODES.

C. ALL CONDUCTORS SHALL BE SINGLE INSULATED CONDUCTOR, THHN/THWN-2. SIZES #10 AWG AND SMALLER SHALL BE SOLID, SIZES #8 AWG AND LARGER SHALL BE STRANDED.

D. BRANCH CIRCUITS SHALL NOT BE SMALLER THAN #12 AWG. CONTROL WIRING MAY BE #14 AWG.

E. CONDUCTORS SHALL BE COLOR CODED BLACK/RED/BLUE FOR 120/208 VOLT SYSTEMS AND BROWN/ORANGE/YELLOW FOR 277/480 VOLT SYSTEMS FOR A, B, AND C PHASES, RESPECTIVELY. NEUTRAL SHALL BE WHITE FOR 120/208 VOLT SYSTEMS AND NATURAL GRAY FOR 277/480 VOLT SYSTEMS. GROUND CONDUCTOR SHALL BE GREEN ON ALL SYSTEMS. ALL CONDUCTOR SIZES SHALL HAVE COLOR-CODED INSULATION. THE USE OF COLORED TAPE ON LARGER WIRE SIZES SHALL NOT BE ALLOWED.

F. INSULATION SHALL BE DUAL RATED TYPE THHN/THWN-2 FOR FEEDERS AND BRANCH CIRCUITS. FIXTURE TAPS SHALL BE #12 THHN/THWN-2 IN FLEX WITH GREEN #12 AWG GROUNDING CONDUCTOR.

G. ALL CONDUCTORS SHALL BE IN CONDUIT.

H. WIRING TO LIGHTING FIXTURES SHALL BE AS REQUIRED BY UL LABEL.

I. MULTI-WIRE BRANCH CIRCUITS SHALL NOT BE ALLOWED, UNLESS EXPLICITLY INDICATED ON THE DRAWINGS. WHERE EXPLICITLY INDICATED ON THE DRAWINGS:
   1) ALL 20A MULTI-WIRE RECEPTACLE CIRCUITS SHALL UTILIZE A #10 AWG NEUTRAL CONDUCTOR.
      OR
   2) ONLY WHERE PERMITTED UNDER "RACEWAYS", MC CABLE ASSEMBLIES CAN BE AFC "SUPER NEUTRAL" OR EQUAL, UNLESS OTHERWISE INDICATED ON THE DRAWINGS. WHERE MULTI-WIRE BRANCH CIRCUITS ARE EXPLICITLY INDICATED ON THE DRAWINGS, THEY SHALL BE INSTALLED PER NEC 210.4. MEANS SHALL BE PROVIDED TO SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POINT WHERE THE BRANCH CIRCUIT ORIGINATES IN ADDITION TO OTHER REQUIREMENTS PER NEC 210.4.

J. JOINTS IN #10 AWG AND SMALLER SHALL BE MADE UP WITH CRIMPED CONNECTORS WITH INSULATING CAPS (NO TAPE) OR WIRENUTS (MAXIMUM OF 3 CONDUCTORS UNDER ANY CONNECTOR OR WIRENUT). LARGER WIRE SHALL USE SPLIT BOLTS OR BOLTED CLAMPS.

K. ALL WIRING LUGS THROUGHOUT THE PROJECT, INCLUDING, BUT NOT LIMITED TO, BREAKERS, PANELBOARD/SWITCHBOARD LUGS, SAFETY SWITCH LUGS, MOTOR STARTER LUGS, TRANSFORMERS LUGS, WIRING DEVICE TERMINALS, AND ALL EQUIPMENT LUGS/TERMINALS SHALL BE RATED FOR USE WITH 75 DEGREE INSULATED CONDUCTORS AT THEIR 75 DEGREE AMPACITY AND SHALL BE SIZED TO MATCH THE CONDUCTOR SIZE.

L. CIRCUIT JOINTS SHALL NOT BE MADE ON DEVICE TERMINALS.

M. WIRE WITHIN PANELBOARDS SHALL BE NEATLY TRAINED, SQUARED, BUNCHED, AND TAGGED.

N. ALL SYSTEM FURNITURE CONNECTIONS SHALL COMPLY WITH NEC 605.

O. GROUND ALL EQUIPMENT PER NEC ARTICLE 250. BOND WHERE CONDUITS ENTER ENCLOSURES THROUGH CONCENTRIC KNOCKOUTS. ALL FLEX, INCLUDING FIXTURE TAPS, SHALL INCLUDE GREEN GROUNDING CONDUCTOR, #12 AWG MINIMUM. PROVIDE GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR IN EACH CONDUIT, SIZED PER NEC 250-127.

P. ALL CONDUCTORS INSTALLED IN VERTICAL RACEWAYS SHALL BE SUPPORTED AT INTERVALS AS REQUIRED PER NEC 300-19.

5. WIRING DEVICES:

A. WIRING DEVICES SHALL BE SPECIFICATION GRADE, MINIMUM, EQUAL TO COOPER QUALITY INDICATED BELOW OR AS MANUFACTURED BY HUBBELL, LEGRAND-PASS & SEYMOUR, LEVITON, OR APPROVED EQUAL, UNLESS OTHERWISE NOTED:

SWITCHES (120/277V) SHALL BE AS FOLLOWS:

SINGLE-POLE 20 AMP	COOPER AH1221
DOUBLE-POLE 20 AMP	COOPER AH1222
THREE-WAY 20 AMP	COOPER AH1223
FOUR-WAY 20 AMP	COOPER AH1224
SINGLE-POLE-PILOT 20 AMP	COOPER AH1221PL
DOUBLE-POLE-PILOT 20 AMP	COOPER AH1222PL
THREE-WAY-PILOT 20 AMP	COOPER AH1223PL
SINGLE-POLE-KEY 20 AMP	COOPER AH1221L
DOUBLE-POLE-KEY 20 AMP	COOPER AH1222L
THREE-WAY-KEY 20 AMP	COOPER AH1223L
FOUR-WAY-KEY 20 AMP	COOPER AH1224L

DUPLEX RECEPTACLES SHALL HAVE A NYLON FACE AND SHALL BE AS FOLLOWS:

15 AMP DUPLEX	COOPER 5252
20 AMP DUPLEX	COOPER 5352
15 AMP DUPLEX GFCI	COOPER VGF15F
20 AMP DUPLEX GFCI	COOPER VGF20F
15 AMP DUPLEX TAMPER	COOPER TR5262
20 AMP DUPLEX TAMPER	COOPER TR5362
15 AMP DUPLEX GFCI-TAMPER	COOPER TRVGF15F
20 AMP DUPLEX GFCI-TAMPER	COOPER TRVGF20F
15 AMP DUPLEX IG	COOPER IG5262
20 AMP DUPLEX IG	COOPER IG5362
15 AMP DUPLEX SPD	COOPER 5262S
20 AMP DUPLEX SPD	COOPER 5362S
15 AMP DUPLEX IG-SPD	COOPER IG5262S
20 AMP DUPLEX IG-SPD	COOPER IG5362S
15 AMP DUPLEX CORROSION	COOPER 5262CR
20 AMP DUPLEX CORROSION	COOPER 5362CR

THE PART NUMBERS ABOVE ARE FOR WIRING DEVICE TYPE ONLY. SEE BELOW FOR WIRING DEVICE COLOR AND PLATE MATERIAL/COLOR.

B. SEE MOUNTING HEIGHT ELEVATION DETAIL FOR STANDARD MOUNTING HEIGHTS OF ALL DEVICES, UNLESS OTHERWISE NOTED.

C. ALL WIRING DEVICES (SWITCHES AND RECEPTACLES) SHALL BE GRAY, UNLESS OTHERWISE NOTED. ALL COVER PLATES SHALL BE 302 STAINLESS STEEL. COVER PLATES IN MASONRY WALLS SHALL BE OVERSIZE TYPE. OR ALL WIRING DEVICES (SWITCHES AND RECEPTACLES) AND PLATES SHALL MATCH EXISTING IN MATERIAL AND COLOR, UNLESS OTHERWISE NOTED. COVER PLATES IN MASONRY WALLS SHALL BE JUMBO SIZE. OR THE COLOR OF ALL WIRING DEVICES (SWITCHES AND RECEPTACLES) SHALL BE AS DIRECTED BY THE ARCHITECT, UNLESS OTHERWISE NOTED. ALL COVER PLATES SHALL BE 302 STAINLESS STEEL. COVER PLATES IN MASONRY WALLS SHALL BE JUMBO SIZE.

D. EACH DUPLEX RECEPTACLE INDICATED TO BE ON A DEDICATED CIRCUIT SHALL BE 20 AMP TYPE.

E. ADJACENT DEVICES SHALL HAVE A COMMON WALL PLATE.

F. WEATHERPROOF COVERS SHALL BE "WHILE-IN-USE" SO PLUGS MAY BE INSTALLED WITHOUT COMPROMISING THE WP FUNCTION. COOPER #WIU-2 DOUBLE-GANG WITH CLEAR COVER OR APPROVED EQUAL.

G. A MAXIMUM OF 10 GENERAL PURPOSE RECEPTACLES SHALL BE ON EACH BRANCH CIRCUIT.

H. DIMMERS SHALL BE LINEAR SLIDE, PRESENT ON/OFF, SQUARE LAW DIMMING, W/RFI FILTERING AND VOLTAGE COMPENSATION CIRCUITING.

I. ALL WALL MOUNTED OCCUMPANCY/VACANCY SENSORS/SWITCHES SHALL BE INSTALLED WITH AN EQUIPMENT GROUNDING CONDUCTOR.

J. GROUND-FAULT CIRCUIT-INTERRUPTER (GFCI) PROTECTION FOR PERSONNEL SHALL BE PROVIDED IN ALL LOCATIONS PER NEC 210.8. WHERE A DEVICE LOCATION IS NOT ACCESSIBLE, THE GFCI PROTECTION SHALL BE PROVIDED WITH THE BREAKER SERVING THE DEVICE.

6. SUPPORTS:

A. ALL EQUIPMENT SHALL BE ADEQUATELY SUPPORTED FROM STRUCTURE.

B. INSERTS IN MASONRY SHALL BE LEAD OR FIBER IN DRILLED HOLES, OR CAST IN PLACE.

C. NAILS OR POWDER ACTUATED FASTENERS SHALL NOT BE USED.

D. EMT/IMC/RGS SUPPORTS SHALL BE A MAXIMUM OF 8'-0" APART AND A MINIMUM OF 3'-0" FROM BOXES.

E. LIGHTING FIXTURES MOUNTED IN OR ON CEILING SHALL BE SUPPORTED FROM STRUCTURE VIA 12 GAUGE STEEL WIRE. PROVIDE A MINIMUM OF FOUR WIRES, ONE ATTACHED TO EACH CORNER OF LAY-IN FIXTURES. RECESSED DOWNLIGHT FIXTURES SHALL BE SUPPORTED THE SAME. DO NOT SUPPORT RACEWAY OR FIXTURES FROM CEILING GRID OR DUCT WORK. USE U.L. LISTED GRID CLIPS ON ALL LAY-IN FIXTURES.

7. PAINTING:

A. SUITABLE FINISH COAT SHALL BE PROVIDED FOR ALL EQUIPMENT. PANEL TUBS, COVERS, ETC. SHALL BE PRIMED AND ENAMELED TO BLEND WITH ADJACENT SURFACES, OR SHALL BE MANUFACTURER'S STANDARD COLOR BAKED ENAMEL FINISH, OR AS DIRECTED BY THE ARCHITECT.

B. CONTRACTOR TO PAINT WHERE EXISTING EXPOSED PANELBOARDS, SURFACE RACEWAY, SURFACE BOXES, ETC. HAVE BEEN REMOVED DURING THE DEMOLITION PHASE, EITHER FOR TEMPORARY WORK OR PERMANENTLY.

8. LIGHTING FIXTURES:

A. TYPES AND MANUFACTURERS ARE SCHEDULED ON THE PLANS. EQUIVALENT FIXTURES BY OTHERS MAY BE SUBMITTED ONLY AS INDICATED ON THE PLANS AND ARE SUBJECT TO THE APPROVAL OF THE OWNER AND ENGINEER.

B. ALL FIXTURES SHALL BE U.L. LISTED AND LABELED.

C. LAMPS SHALL BE GENERAL ELECTRIC, PHILIPS, OR OSRAM/SYLVANIA EXCEPT WHERE OTHERWISE NOTED IN THE LIGHTING FIXTURE SCHEDULE OR OTHERWISE NOTED. ALL FIXTURES SHALL BE EQUIPPED WITH LAMPS.

D. BALLASTS SHALL BE AS INDICATED IN THE LIGHTING FIXTURE SCHEDULE OR AS OTHERWISE NOTED.

E. ALL FIXTURES SHALL BE PROVIDED FOR PROPER VOLTAGE BASED ON THE CIRCUIT ASSIGNMENT INDICATED ON THE PLANS.

F. CATALOG NUMBERS ARE FOR GENERAL IDENTIFICATION OF FIXTURES ONLY. ALL RELATED PARTS, SUCH AS PLASTER RINGS, JUNCTION BOXES, LOUVERS, SHIELDS, MOUNTING STEMS, CANOPIES, CONNECTORS, STRAPS, NIPPLES, HARDWARE, ACCESSORIES, ETC., TO FIT THEM PROPERLY TO THE CONSTRUCTION, SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR. CONTRACTOR SHALL PROVIDE SUITABLE TRIM AND APPURTENANCES TO MOUNT FIXTURES IN TYPE OF CEILING OR WALL AS SPECIFIED IN ARCHITECTURAL FINISH SCHEDULES REGARDLESS OF CATALOG NUMBER GIVEN.

G. ALL FIXTURES SHALL BE GROUNDED PER THE NEC.

H. FIXTURES CONNECTED WITH FLEX TO THE RIGID RACEWAY PORTION OF THE WIRING SYSTEM SHALL CARRY A GREEN BONDING JUMPER WITHIN THE FLEX. THE JUMPER SHALL BE FASTENED TO BOTH THE FIXTURE AND THE RACEWAY SYSTEM WITH A STEEL CITY "G" CLIP OR APPROVED EQUIVALENT. PHASE AND GROUND CONDUCTORS RUN IN FLEX SHALL BE #12 AWG MINIMUM. MAXIMUM FLEX LENGTH SHALL BE 6'-0".

I. SURFACE-MOUNTED FLUORESCENT FIXTURES INSTALLED ON COMBUSTIBLE MATERIAL SHALL BE MOUNTED AT LEAST 1/4" FROM THE SURFACE OF THE MATERIAL, EXCEPT FOR FIXTURES WHICH ARE PLAINLY MARKED AS U.L. APPROVED FOR MOUNTING DIRECTLY TO SUCH SURFACES.

J. MOUNT ALL FIXTURES PLUMB AND SQUARE WITH ROWS ALIGNED.

K. FLUORESCENT LUMINAIRES THAT UTILIZE DOUBLE-ENDED LAMPS AND CONTAIN BALLAST(S) THAT CAN BE SERVICED IN PLACE SHALL HAVE A DISCONNECTING MEANS WITHER INTEGRAL OR EXTERNAL TO EACH LUMINAIRE PER NEC 410.130(G).

L. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF FIXTURES.

M. CONTRACTOR SHALL COORDINATE FIXTURE TYPE AND TRIM WITH CEILING CONSTRUCTION AND ADJUST ACCORDINGLY WITHOUT ADDITIONAL EXPENSE.

N. ALL LIGHTING FIXTURES SHALL BE THERMALLY PROTECTED PER THE NEC.

O. FIXTURES IN CONTACT WITH INSULATION SHALL BE IC RATED.

P. FOR RECESSED LIGHTING FIXTURES IN FIRE RATED CEILINGS, PROVIDE A MANUFACTURER APPROVED AND LISTED FIRE RATED COVER/ASSEMBLY OVER THE FIXTURE TO MAINTAIN THE INTEGRITY OF THE CEILING FIRE RATING. ANY LIGHTING FIXTURES INSTALLED UNDER THE FIRE RATED CAP SHALL BE SUITABLE FOR THE INSTALLATION.

10. LIGHTING CONTROLS:

A. FURNISH AND INSTALL WHERE SHOWN AN ELECTRONIC TIME CONTROLLER AS MANUFACTURED BY TORK (NSI), PARAGON, INTERMATIC, OR APPROVED EQUAL. CONTACTS SHALL BE SPST OR AS INDICATED, RATED 120/277V AT 20A BALLAST LOAD, AND MINIMUM 30,000 SWITCHING CYCLES. PROVIDE WITH THE NUMBER OF CHANNELS INDICATED (MINIMUM 2 CHANNELS) OR AS REQUIRED TO MEET THE INTENT OF THE DRAWINGS. EACH CHANNEL SHALL BE INDIVIDUALLY PROGRAMMABLE WITH 128 ON-OFF OPERATIONS PER WEEK PLUS FOUR SEASONAL SCHEDULES TO MODIFY THE BASIC PROGRAM AND A HOLIDAY SCHEDULE THAT OVERRIDES THE WEEKLY OPERATION. THE CONTROLLER SHALL BE PROVIDED WITH A PHOTOELECTRIC SENSOR, ASTRONOMIC DIAL, AND A BATTERY BACKED-UP, NON-VOLITILE MEMORY FOR SCHEDULES AND TIME CLOCK.

B. LIGHTING CONTACTORS SHALL SWITCH LOADS AT THE VOLTAGE AND AMPERE RATING INDICATED AND SHALL HAVE THE NUMBER OF POLES INDICATED ON THE DRAWINGS OR AS REQUIRED. THE CONTACTOR AND CONTACTS SHALL BE CONTINUOUSLY RATED FOR THE LOAD SERVED, INCLUDING TUNGSTEN FILAMENT, INDUCTIVE, AND HIGH-INRUSH BALLAST LOADS.

C. ALL LIGHTING CONTACTORS SHALL BE ELECTRICALLY HELD AND BE INSTALLED IN A NEMA 1 ENCLOSURE, UNLESS OTHERWISE NOTED.

11. IDENTIFICATION AND LABELING:

A. PROVIDE ENGRAVED PHENOLIC NAMEPLATES FOR ALL ELECTRICAL EQUIPMENT SUPPLIED FOR THE PROJECT, INCLUDING BUT NOT LIMITED TO, WIRING TROUGHS, SAFETY SWITCHES, DISCONNECTS, TRANSFORMERS, PANELBOARDS, SWITCHBOARDS, SWITCHGEARS, MOTOR CONTROL CENTERS (MCC), BUSWAYS, GENERATORS, AUTOMATIC TRANSFER SWITCHES (ATS), UNINTERRUPTIBLE POWER SUPPLY (UPS), POWER DISTRIBUTION UNITS (PDU), FLOOR/REMOTE DISTRIBUTION CABINETS (FDC/RDC), STATIC TRANSFER SWITCHES (STS), ETC. NAMEPLATE SHALL INDICATE THE DEVICE NAME, SYSTEM VOLTAGE (VOLTAGE/PHASE/WIRE), AND UPSTREAM DEVICE AND CIRCUIT. PROVIDE NAMEPLATES FOR CIRCUIT BREAKERS IN SWITCHGEARS, SWITCHBOARDS AND DISTRIBUTION PANELS.

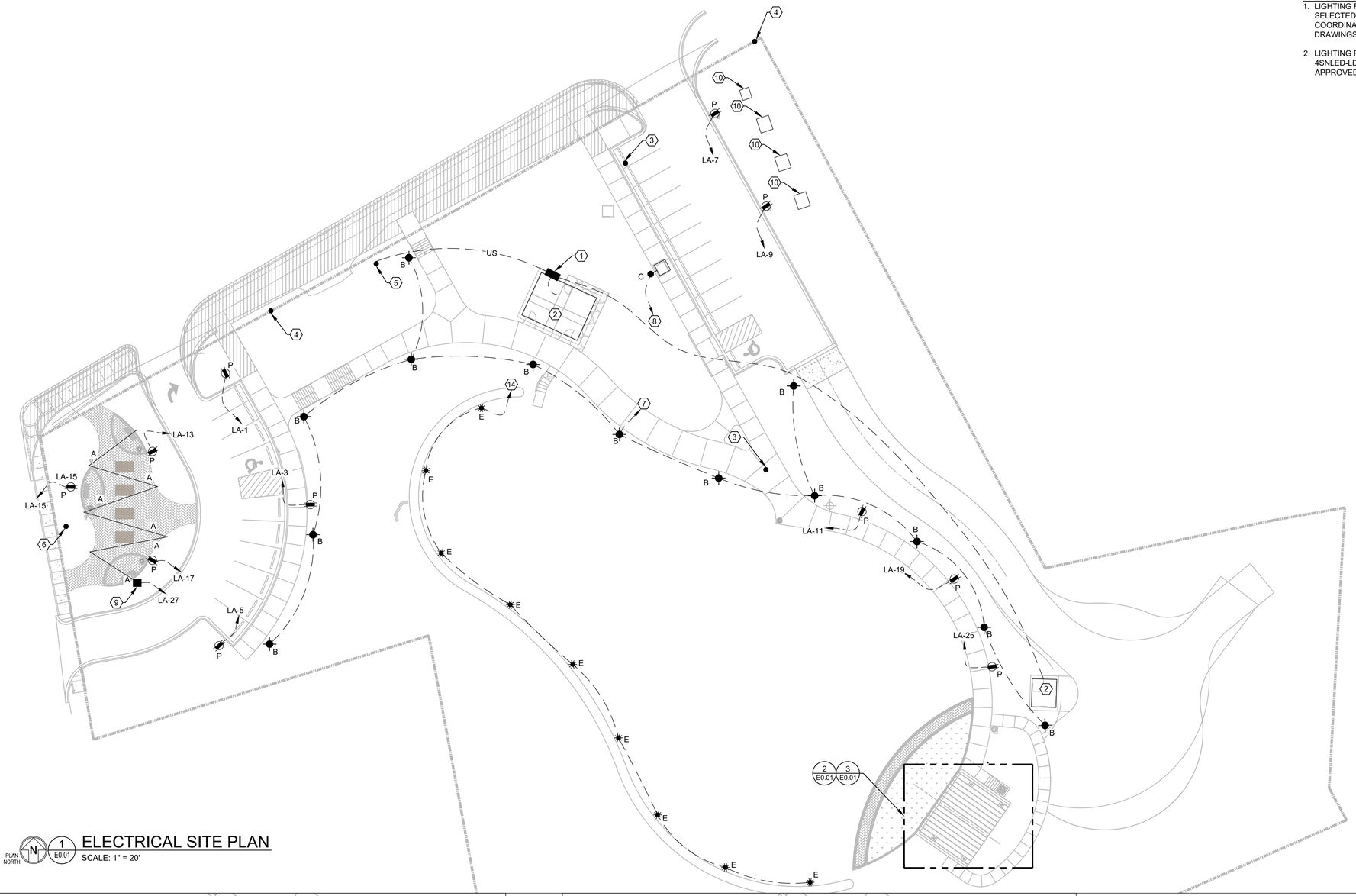
B. NAMEPLATE COLORS SHALL BE AS FOLLOWS:
   120/208V EQUIPMENT — BLUE SURFACE WITH WHITE CORE
   277/480V EQUIPMENT — BLACK SURFACE WITH WHITE CORE

C. NAMEPLATES UP TO 8 SQUARE INCHES SHALL NOT BE LESS THAN 1/16" THICK. NAMEPLATES LARGER THAN 8 SQUARE INCHES SHALL NOT LESS THAN 1/8" THICK.

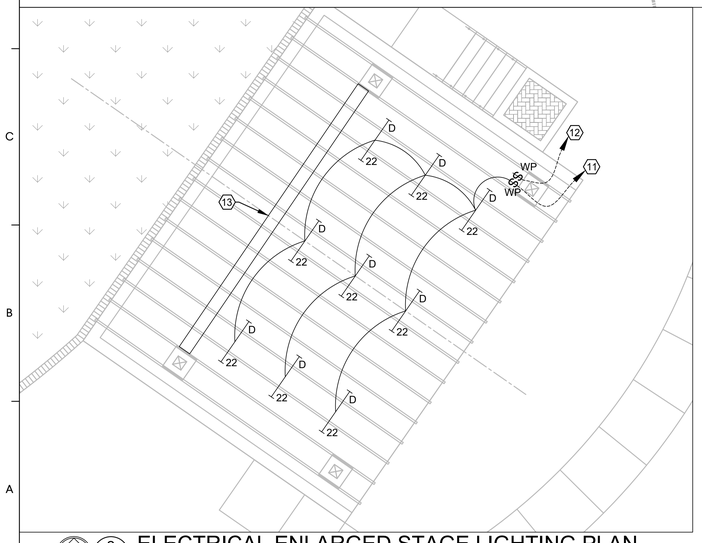
D. LETTERING HEIGHT SHALL BE 1/2" MINIMUM.

E. NAMEPLATES SHALL BE ATTACHED WITH SELF-DRILLING/SELF-TAPPING SCREWS, EXCEPT RIVETS SHALL BE USED WHERE END OF SCREW IS NOT PROTECTED. QUANTITY AS FOLLOWS:
   UP TO 5 SQUARE INCHES:2 SCREWS.
   5 TO 12 SQUARE INCHES: 4 SCREWS.
   ABOVE 12 SQUARE INCHES: 6 SCREWS.

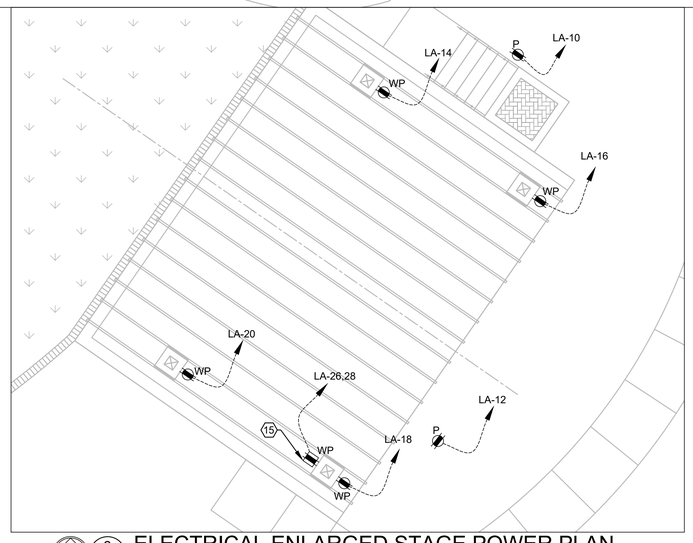
F. RECEPTACLE DEVICE COVERPLATES AND FURNITURE SYSTEM RECEPT



PLAN NORTH N 1 E0.01
ELECTRICAL SITE PLAN
SCALE: 1" = 20'



PLAN NORTH N 2 E0.01
ELECTRICAL ENLARGED STAGE LIGHTING PLAN
SCALE: 1" = 5'



PLAN NORTH N 3 E0.01
ELECTRICAL ENLARGED STAGE POWER PLAN
SCALE: 1" = 5'

GENERAL NOTES:
1. LIGHTING FIXTURES A, B, C, E - SHALL BE SELECTED BY LANDSCAPE ARCHITECT. COORDINATE WITH LANDSCAPING DRAWINGS FOR MORE INFORMATION.
2. LIGHTING FIXTURE D SHALL BE A METALUX 4SNLED-LD5-33SL-LW-UNV-L840-CD-1 OR APPROVED EQUAL.

KEYED NOTES (#):
1. SPACE FOR ELECTRICAL MOUNTING FRAME TO HOLD PANEL 'LA'. SEE POWER RISER DIAGRAM ON E1.01 FOR MORE INFORMATION.
2. PREFABRICATED RESTROOM BUILDING. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE BUILDING MANUFACTURER SHOP DRAWINGS FOR THE EXACT CONDUIT STUB-UP LOCATION FOR THE ELECTRICAL SERVICE.
3. APPROXIMATE LOCATION OF EXISTING UTILITY SITE LIGHTING POLE TO BE REMOVED BY THE UTILITY COMPANY. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY FOR ANY WORK REQUIRED BY THE CONTRACTOR FOR THIS SCOPE.
4. APPROXIMATE LOCATION OF EXISTING UTILITY POLE TO REMAIN.
5. APPROXIMATE LOCATION OF UTILITY RISER POLE. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY FOR ROUTING NEW SECONDARY CONDUIT TO POLE.
6. APPROXIMATE LOCATION OF EXISTING STREETSCAPE LIGHTING FIXTURE TO REMAIN. ELECTRICAL CONTRACTOR SHALL ENSURE FIXTURE REMAINS OPERATIONAL DURING CONSTRUCTION.
7. PEDESTRIAN LIGHTING CIRCUIT TO LA-21. ROUTE 2#10 & 1#10(G) - 1"C. LIGHTING FIXTURES TO BE CONTROLLED BY INTEGRAL PHOTOCELL SENSOR IN FIXTURES. FIXTURE TO BE SELECTED BY LANDSCAPE ARCHITECT. COORDINATE WITH LANDSCAPING PLANS.
8. PARKING LOT LIGHTING CIRCUIT TO PANEL LA-23. ROUTE 2#12& 1#12(G) - 1" C. FIXTURE TO BE CONTROLLED BY INTEGRAL PHOTOCELL SENSOR. FIXTURE TO BE SELECTED BY LANDSCAPE ARCHITECT. COORDINATE WITH LANDSCAPING PLANS
9. ELECTRICAL CONNECTION TO FESTOON LIGHTING FIXTURES. SEE DETAIL 6/E2.01 FOR MORE INFORMATION ON ELECTRICAL INSTALLATION REQUIREMENTS.
10. EXISTING UTILITY TRANSFORMER. NO WORK REQUIRED, FOR REFERENCE ONLY. ELECTRICAL CONTRACTOR SHALL ENSURE UNDERGROUND CONDUIT CONNECTIONS FOR TRANSFORMERS ARE MAINTAINED DURING CONSTRUCTION.
11. STAGE LIGHTING CIRCUIT TO LA-22. ROUTE 2#12 & 1#12(G) - 1"C.
12. FUTURE LIGHTING CIRCUIT FOR OWNER PROVIDED STAGE TRACK LIGHTING CIRCUIT TO LA-24. ELECTRICAL CONTRACTOR SHALL ROUTE 2#12 & 1#12(G) - 1"C TO THE PROVIDED WEATHERPROOF SWITCH.
13. FUTURE TRACK LIGHTING FOR STAGE BY OWNER.
14. BOLLARD LIGHTING CIRCUIT TO LA-29. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE LANDSCAPING DRAWINGS FOR EXACT FIXTURE TYPE. ROUTE 2 #10 & 1#10(G) - 1"C. SEE DETAIL 7/E2.01 FOR CONCRETE BASE INSTALLATION REQUIREMENTS. ELECTRICAL CONTRACTOR SHALL CONNECT CIRCUIT TO PHOTOCELL DEVICE MOUNTED ON ELECTRICAL MOUNTING FRAME. INSTALL PHOTOCELL TO PANEL/MOUNTING FRAME AS REQUIRED.
15. TWISTLOCK RECEPTACLE CIRCUIT TO PANEL 'LA'. ELECTRICAL CONTRACTOR SHALL ROUTE 3#4 AWG & 1#8(G) - 1" C.

GMC
6120 Powers Ferry Road NW, Suite 350
Atlanta, GA 30339
T 770.952.2481
GMCNETWORK.COM

ISSUE	DATE
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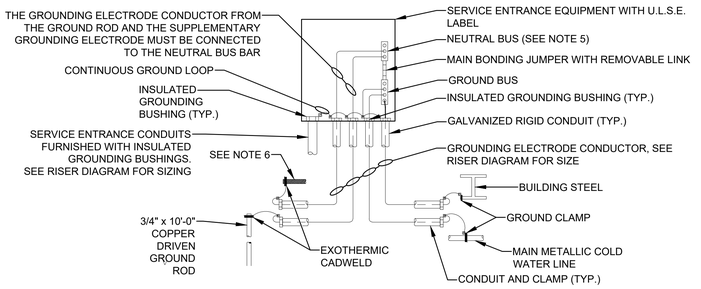
PERROW PARK
JASPER, GA

LATL240013

ELECTRICAL SITE PLAN

E0.01
Sheet 01

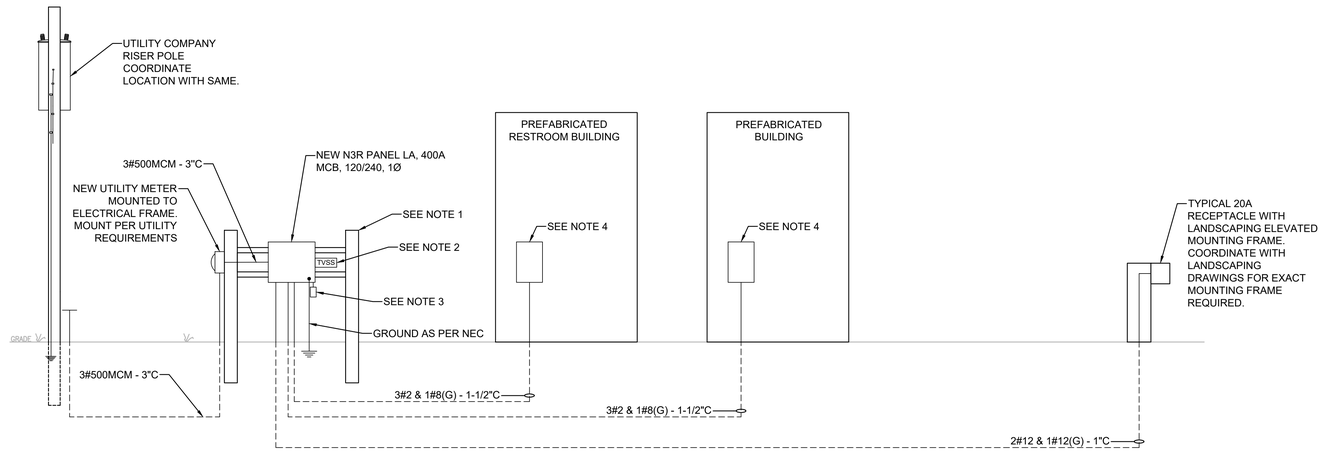


1 E1.01 SERVICE ENTRANCE GROUNDING DETAIL

DIAGRAMMATIC

NOTES:

1. GROUNDING ELECTRODE CONDUCTORS SHALL BE ENCLOSED FULL LENGTH BY GALVANIZED RIGID CONDUIT AS INDICATED.
2. GROUNDING ELECTRODE CONDUCTORS SHALL BE BARE COPPER, SOFT-DRIVEN.
3. ALL BUSHING CLAMPS, JUMPERS, DEVICES, ETC. INSTALLED IN DIRECT CONTACT WITH EARTH SHALL BE APPROVED FOR THE PURPOSE.
4. GROUNDING ELECTRODE CONDUCTORS SIZED 6 AWG OR SMALLER SHALL HAVE A CONTINUOUS GREEN OUTER FINISH PER N.E.C.
5. GROUNDING ELECTRODE CONDUCTOR FROM GROUND ROD AND REBAR MUST BE CONNECTED TO THE NEUTRAL BUS BAR AHEAD OF THE BONDING JUMPER.
6. 20' GROUNDING ELECTRODE ENCASED IN CONCRETE IN THE DEEPEST FOOTING AND BENT INSIDE THE BUILDING. GROUNDING ELECTRODE CONDUCTOR MUST BE CONNECTED TO THE OTHER STRUCTURAL REBAR (BY OTHERS) ENCASED IN CONCRETE. REBAR MAY BE USED AS THE GROUNDING ELECTRODE CONDUCTOR. REBAR SHALL BE PAINTED GREEN WHERE EXPOSED OUTSIDE OF THE CONCRETE. THIS IS NOT REQUIRED IN EXISTING BUILDING RENOVATION PROJECTS WHERE A NEW SERVICE IS BEING PROVIDED.
7. IF NONE OF THE OPTIONS ARE AVAILABLE, THE ELECTRICAL CONTRACTOR SHALL USE A COUNTER POISE SYSTEM AS PER THE N.E.C.
8. CONNECTION MUST BE MADE TO THE METAL COLD WATER PIPE WITHIN 5' OF THE POINT OF ENTRANCE INTO THE BUILDING.
9. METAL GAS PIPE SHALL NOT BE USED AS A GROUNDING ELECTRODE CONDUCTOR PER N.E.C. HOWEVER, IF A METAL GAS PIPE IS PROVIDED BY OTHER, IT MUST BE BONDED TO THE GROUNDING ELECTRODE SYSTEM.



2 E1.01 SERVICE ENTRANCE RISER

DIAGRAMMATIC

NOTES:

1. PROVIDE STEEL MOUNTING FRAME, SIZE AS REQUIRED TO ACHIEVE DESIGN INTENT. SEE DETAIL 8/E2.02 FOR MORE INFORMATION ON INSTALLATION REQUIREMENTS.
2. TVSS WILL BE ANSI/UL 1449-2006 (UL 1449 3RD EDITION) LISTED, COMPLETE W/WARRANTY AS MANUFACTURED BY SSI (ADVANTAGE SERIES (888-212-2728), LIEBERT (INTERCEPTOR II SERIES (614-888-0246) OR CURRENT TECHNOLOGY (CURRENT GUARD PLUS (800-238-5000) OR EQUIVALENT.
3. GFCI WEATHERPROOF DUPLEX RECEPTACLE WITH SURFACE OUTLET BOX ATTACHED TO PANELBOARD WITH 3/4" CHASE NIPPLE. CONNECT WITH 2#12, 1#12G BRANCH CIRCUIT.
4. ELECTRICAL CONTRACTOR SHALL INTERCONNECT CONDUIT & WIRE TO PREFABRICATED BUILDING PANEL. COORDINATE EXACT LOCATIONS OF ELECTRICAL PANELS WITH BUILDING SHOP DRAWINGS.

GROUNDING ELECTRODE CONDUCTOR TABLE

SIZE OF LARGEST UNGROUNDED SERVICE-ENTRANCE CONDUCTOR OR EQUIVALENT AREA FOR PARALLEL CONDUCTORS (AWG/kcmil)	SIZE OF GROUNDING ELECTRODE CONDUCTOR (AWG/kcmil)
COPPER	COPPER
2 OR SMALLER	8
1 OR 1/0	6
2/0 OR 3/0	4
OVER 3/0 THROUGH 350	2
OVER 350 THROUGH 600	1/0
OVER 600 THROUGH 1100	2/0
OVER 1100	3/0

NOTES:
1. WHERE MULTIPLE SETS OF SERVICE-ENTRANCE CONDUCTORS ARE USED AS PERMITTED IN 230.40, EXCEPTION NO. 2, THE EQUIVALENT SIZE OF THE LARGEST SERVICE-ENTRANCE CONDUCTOR SHALL BE DETERMINED BY THE LARGEST SUM OF THE AREAS OF THE CORRESPONDING CONDUCTORS OF EACH SET.

2. WHERE THERE ARE NO SERVICE-ENTRANCE CONDUCTORS, THE GROUNDING ELECTRODE CONDUCTOR SIZE SHALL BE DETERMINED BY THE EQUIVALENT SIZE OF THE LARGEST SERVICE-ENTRANCE CONDUCTOR REQUIRED FOR THE LOAD TO BE SERVED. THIS TABLE ALSO APPLIES TO THE DERIVED CONDUCTORS OF SEPARATELY DERIVED AC SYSTEMS.

PANELBOARD LA SCHEDULE

LOCATION: EXTERIOR FRAME | MAIN: 400A MCB | SERVICE ENTRANCE RATED
VOLTAGE: 120/240 | SYSTEM: 1ø, 3 WIRE
TRIM: SURFACE | INTERRUPTING RATING: 65K AIC

CKT #	LOAD DESCRIPTION	BREAKER P	BREAKER TRIP	PHASE (KW) A	PHASE (KW) B	PHASE (KW) A	PHASE (KW) B	BREAKER TRIP	BREAKER P	LOAD DESCRIPTION	CKT #
1	EXTERIOR RECEPTACLE	1	20	1.50		9.00		100	2	PREFAB RESTROOM	2
3	EXTERIOR RECEPTACLE	1	20		1.50		9.00				4
5	EXTERIOR RECEPTACLE	1	20	1.50		9.00		100	2	PREFAB BUILDING	6
7	EXTERIOR RECEPTACLE	1	20		0.50		9.00				8
9	EXTERIOR RECEPTACLE	1	20	0.50		1.50		20	1	EXTERIOR RECEPTACLE	10
11	EXTERIOR RECEPTACLE	1	20		0.50		1.50	20	1	EXTERIOR RECEPTACLE	12
13	EXTERIOR RECEPTACLE	1	20	0.50		1.80		20	1	STAGE RECEPTACLE	14
15	EXTERIOR RECEPTACLE	1	20		0.50		1.80	20	1	STAGE RECEPTACLE	16
17	EXTERIOR RECEPTACLE	1	20	0.50		1.80		20	1	STAGE RECEPTACLE	18
19	EXTERIOR RECEPTACLE	1	20		0.50		1.80	20	1	STAGE RECEPTACLE	20
21	PEDESTRIAN LIGHTING	1	20	0.80		0.50		20	1	STAGE LIGHTING	22
23	PARKING LIGHTING	1	20		0.35		0.50	20	1	STAGE LIGHTING	24
25	EXTERIOR RECEPTACLE	1	20	0.50		4.80		50	2	TWISTLOCK RECEPT	26
27	FESTOON LIGHTING	1	20		0.50		4.80				28
29	BOLLARD LIGHITNG	1	20	1.00						BUSSED SPACE	30
31	BUSSED SPACE									BUSSED SPACE	32
33	BUSSED SPACE									BUSSED SPACE	34
35	BUSSED SPACE									BUSSED SPACE	36
37	BUSSED SPACE									BUSSED SPACE	38
39	BUSSED SPACE									BUSSED SPACE	40
41	PANEL RECEPTACLE	1	20	0.50						BUSSED SPACE	42
				7.3	4.4	28.4	28.4				

TOTAL (kVA) øA 35.7 øB 32.8
TOTAL CONNECTED LOAD (kVA) 68.5 TOTAL LOAD (AMPS) 285.2

PANELBOARD NOTES

1. PANELBOARDS SHALL BE INSTALLED IN SUCH A MANNER TO MAINTAIN ALL CLEARANCES IN ACCORDANCE WITH THE NEC.
2. ALL PANELBOARDS SHALL BE UL LISTED AND INSTALLED IN ACCORDANCE WITH THAT LISTING.
3. PANELBOARDS SHALL BE FURNISHED COMPLETE WITH THE PROPERLY SIZED CAN, INTERNAL HARDWARE, COMPONENTS, SUPPORTING STRUCTURES, ETC., FOR A COMPLETE INSTALLATION.
4. FURNISH EACH PANELBOARD WITH A GROUND BAR BONDED TO THE PANEL ENCLOSURE.
5. EACH PANELBOARD SHALL HAVE A NAMEPLATE AS SHOWN IN DETAIL. ENGINEER WILL NOT ACCEPT JOB UNTIL THESE NAMEPLATES ARE PROVIDED.
6. ALL FLUSH MOUNTED PANELBOARDS SHALL BE PROVIDED WITH AT LEAST SIX 3/4" SPARE CONDUITS TO ABOVE ACCESSIBLE CEILING.
7. ALL PANELBOARDS SHALL BE CLEARLY MARKED TO COMPLY WITH NEC 110.16 & NEC110.24 REGARDING POTENTIAL HAZARDS OF ARC FLASH.
8. PROVIDE TYPED CIRCUIT DIRECTORY THAT INDICATES WHAT EACH CIRCUIT IS SERVING. LIGHTING AND RECEPTACLE CIRCUITS WILL INCLUDE THE ROOM NUMBERS THAT CIRCUIT IS SERVING.
9. PANELBOARDS SHALL BE FULLY RATED. (SERIES RATED PANELBOARDS WILL NOT BE ACCEPTED.)
10. PROVIDE THE PROPERLY SIZED CONDUCTOR TERMINATION POINTS OR LUGS (MULTIPLE LUGS WHEN PARALLEL FEEDERS ARE USED) FOR THE NUMBER AND SIZE CIRCUITS INDICATED.
11. THE TERMINATION POINT OF THE FEEDER SERVING EACH ASSEMBLY SHALL BE AT THE NEAREST POINT OF FEEDER ENTRY TO MINIMIZE CONDUCTOR FILL IN THE CAN. COORDINATE TOP/BOTTOM FED PANELBOARD PROVISIONS WITH EACH FEED INSTALLATION.
12. ALL PANELBOARDS SHALL BE DOOR-IN-DOOR CONSTRUCTION.
13. MANUFACTURER THAT WILL BE PROVIDING PANELBOARDS ON THIS PROJECT WILL NEED TO DO A BREAKER COORDINATION TO ENSURE DOWNSTREAM CIRCUIT BREAKERS TRIP BEFORE UPSTREAM BREAKERS. PROVIDE BREAKER COORDINATION STUDY IN THE SHOP DRAWINGS FOR ENGINEER REVIEW.

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6120 Powers Ferry Road NW, Suite 350
Atlanta, GA 30339
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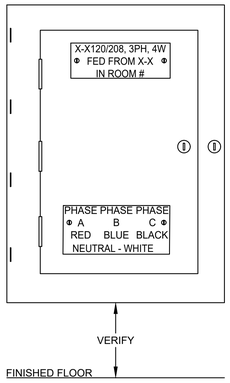
POWER RISER DIAGRAM, DETAILS & SCHEDULES

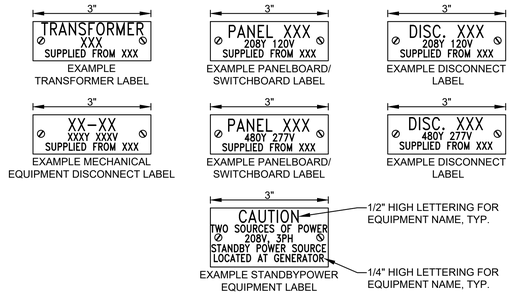
E1.01
SHEET OF



277/480, 3PH, 4W
PHASE A - BROWN
PHASE B - ORANGE
PHASE C - YELLOW
NEUTRAL - GRAY

NOTES:
1. ADJUST AS REQUIRED FOR PROJECT VOLTAGE.

1 E2.01 PANELBOARD INSTALLATION & NAME PLATE DETAIL
DIAGRAMMATIC



2 E2.01 TYPICAL EQUIPMENT LABELING DETAIL
DIAGRAMMATIC

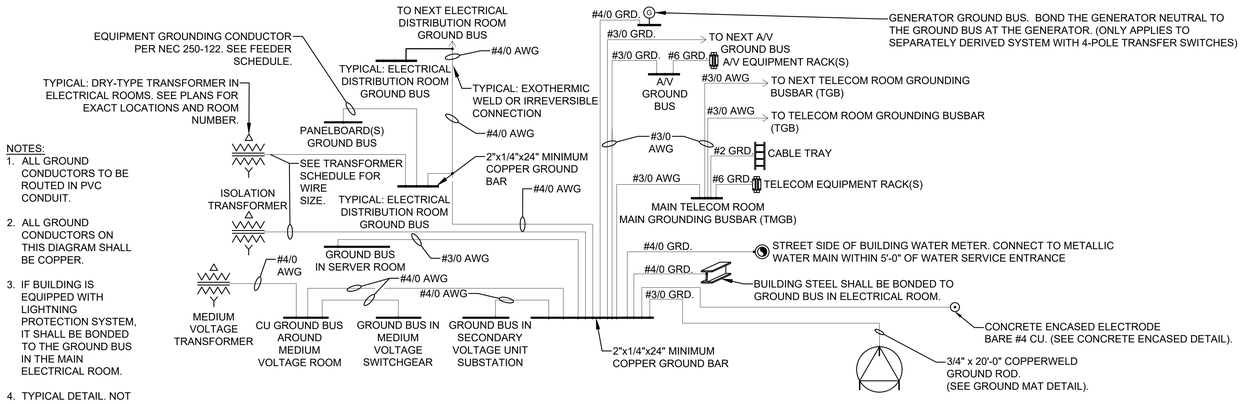
NOTES:
1. ENGRAVED PLASTIC TAG WITH WHITE LETTERS ON BLACK BACKGROUND (RED BACKGROUND FOR EMERGENCY EQUIPMENT). TAG SHALL HAVE ALL EDGES BEVELED AND SMOOTH. SECURE TAG WITH 2 CHROME (STAINLESS STEEL FOR WET OR DAMP LOCATIONS) SCREWS.
2. MINIMUM EQUIPMENT LABEL SIZE MUST BE LARGE ENOUGH TO ACCOMMODATE ALL TEXT.

WARNING

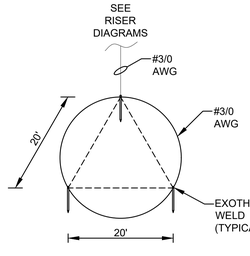
Arc Flash Hazard.
Appropriate PPE Required.
Failure To Comply Can Result in Death or Injury.
Refer to NFPA 70 E.

3 E2.01 ARC FLASH WARNING LABEL
DIAGRAMMATIC

NOTES:
1. PROVIDE SELF-ADHESIVE VINYL LABEL TO AFFIX TO ELECTRICAL EQUIPMENT TO WARN OF ARC FLASH HAZARDS.
2. THE LABEL FORMAT, SIZE, AND TEXT SHALL BE IN ACCORDANCE WITH OSHA AND NFPA 72 REQUIREMENTS.
3. THE LABEL SHALL BE LOCATED ON THE EQUIPMENT TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE OF THE EQUIPMENT.

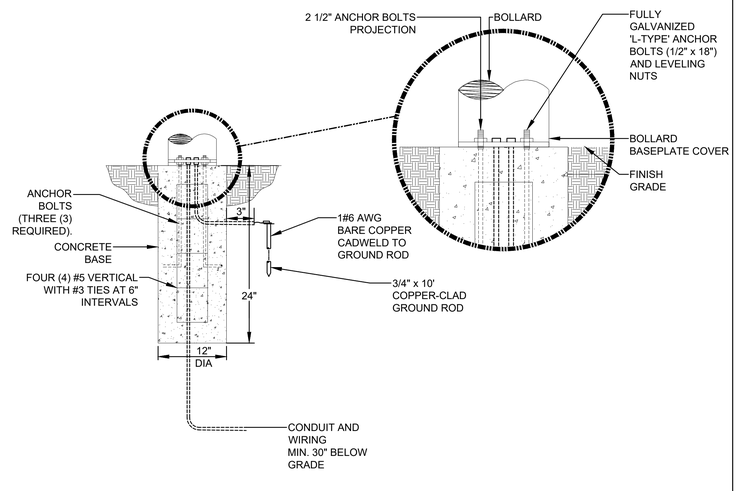


4 E2.01 GROUNDING SYSTEM DETAIL
DIAGRAMMATIC



5 E2.01 GROUND MAT DETAIL
DIAGRAMMATIC

NOTES:
1. ALL WIRE FOR GROUND MAT SHALL BE #3/0 AWG UNO.
2. GROUND RODS SHALL BE 3/4" X 20' SECTIONAL COPPER GROUND RODS.
3. ALL CONNECTIONS BETWEEN GROUND RODS AND GROUND CONDUCTORS SHALL BE EXOTHERMIC WELD.
4. GROUND MAT SHALL BE INSTALLED 24" BELOW GRADE MINIMUM.
5. IN ADDITION TO THE GROUND MAT, THE CONTRACTOR SHALL PROVIDE A COMPLETE GROUNDING SYSTEM IAW N.E.C. ARTICLE 250.



7 E2.01 BOLLARD BASE DETAIL
DIAGRAMMATIC

6 E2.01 ELECTRICAL INSTALLATION FOR FESTOON LIGHITNG
DIAGRAMMATIC

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Atlanta, GA 30339
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GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 33263 JOHN J. ANDERSON

ELECTRICAL DETAILS

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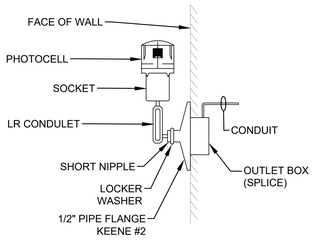
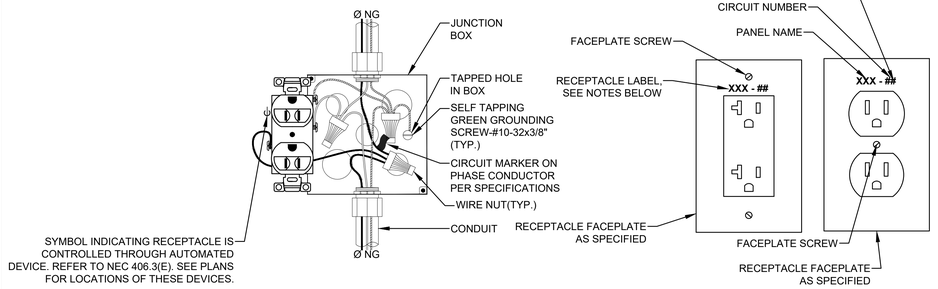


1 E2.02 INSTALLATION OF PHOTO CELL

DIAGRAMMATIC

NOTES:

1. PAINT CONDUIT NIPPLE, SOCKET, AND PIPE FLANGE WITH TWO COATS OF ENAMEL.
2. COMPLETE ASSEMBLY TO BE UL LISTED FOR WET LOCATIONS.
3. PHOTOCELL TO BE MOUNTED FACING NORTH FREE FROM ALL SHADOWS WHICH MIGHT CAUSE PHOTOCELL TO TURN LIGHTS ON EARLY. CONTRACTOR SHALL COORDINATE PROPER MOUNTING LOCATION PRIOR TO INSTALLATION.

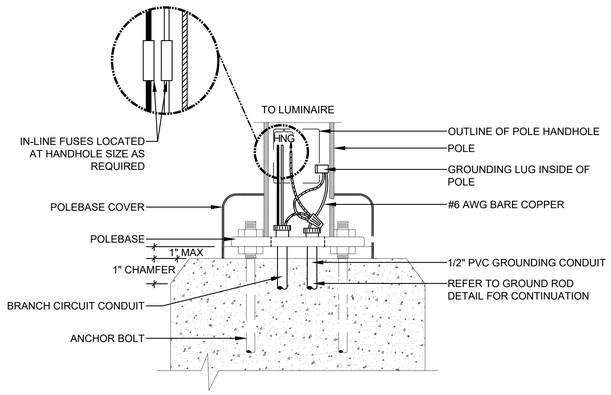


NOTES:

1. GREEN GROUND CONDUCTOR SHALL BE CONTINUOUS SO THAT REMOVAL OF DEVICE WILL NOT INTERFERE WITH GROUND CONTINUITY.
2. PROVIDE A SEPARATE NEUTRAL FOR EACH CIRCUIT.
3. RECEPTACLE FACEPLATES SHALL BE LABELED WITH THE PANEL NAME AND CIRCUIT NUMBER IT IS FED FROM.
4. LETTERING SHALL BE A MINIMUM OF 3/16" HIGH.
5. STAINLESS STEEL FACEPLATE LETTER (FILL) COLOR: NORMAL = WHITE. EMERGENCY = RED. STAINLESS STEEL FACEPLATE LABELS SHALL BE ENGRAVED

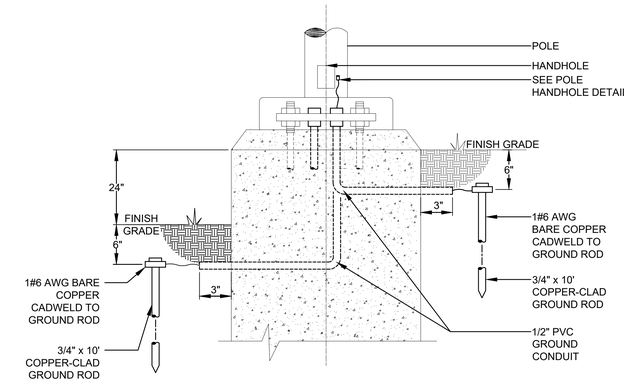
2 E2.02 TYPICAL RECEPTACLE AND FACEPLATE DETAIL

DIAGRAMMATIC



3 E2.02 POLE HANDHOLE DETAIL

DIAGRAMMATIC

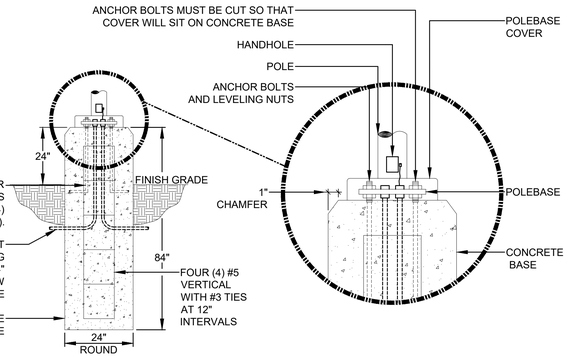


4 E2.02 GROUND ROD DETAIL

DIAGRAMMATIC

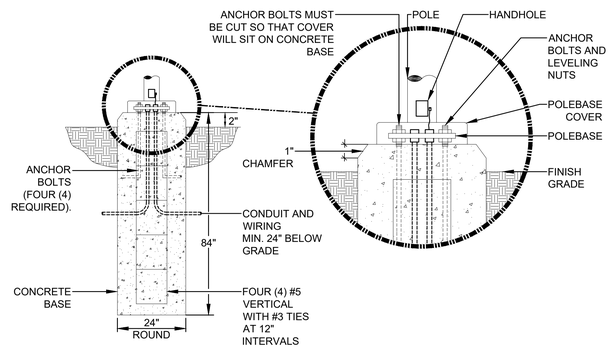
NOTE:

1. DETAIL TYPICAL FOR ALL STANDARDS.



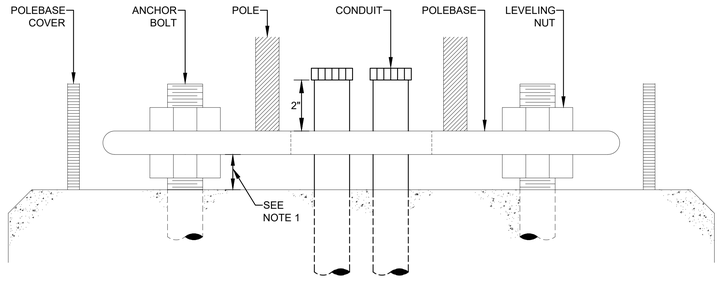
5 E2.02 POLEBASE DETAIL - ABOVE GRADE

DIAGRAMMATIC



6 E2.02 POLEBASE DETAIL - FIXTURE @ GRADE

DIAGRAMMATIC



7 E2.02 LARGE SCALE POLEBASE DETAIL

DIAGRAMMATIC

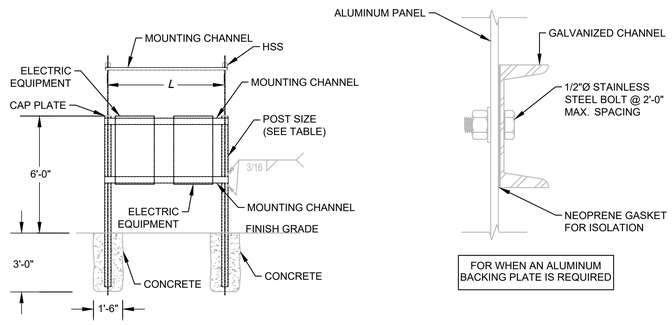
NOTE:

1. MOUNT AS CLOSE AS POSSIBLE TO CONCRETE BASE (NOT TO EXCEED 1").

NOTES:

1) DESIGNED FOR 120 MPH WIND SPEED.
2) PIPES ARE SCH. 40, FY= 36KSI
3) GROUND CONDITIONS 300 LBF LATERAL RESISTANCE MIN.
4) EQUIPMENT DL. 1000 lbs. MAX.

ELECTRICAL PANEL SIZING SCHEDULE		
HSS SPACING (L)	PIPE SIZE	MOUNTING ANGLE SIZE
0' - 0" to 6' - 11"	HSS3x3x1/4	C4x4.5
7' - 0" to 9' - 11"	HSS3x3x5/16	C8x11.5
10' - 0" to 12' - 0"	HSS3.5x3.5x1/4	C10x30



8 E2.02 MOUNTING FRAME FOR EQUIPMENT

NOT TO SCALE

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ELECTRICAL DETAILS

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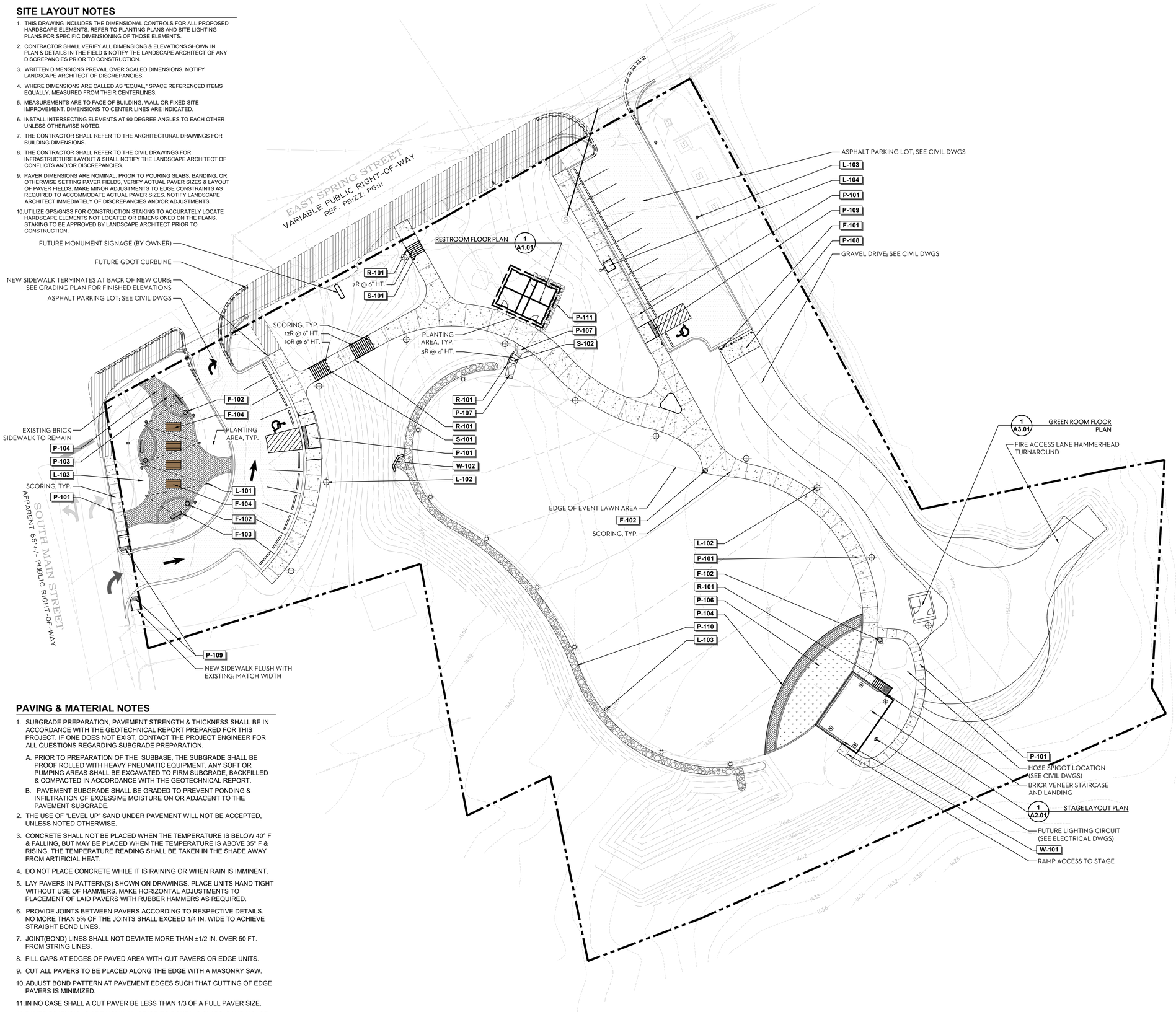
SITE LAYOUT NOTES

1. THIS DRAWING INCLUDES THE DIMENSIONAL CONTROLS FOR ALL PROPOSED HARDSCAPE ELEMENTS. REFER TO PLANTING PLANS AND SITE LIGHTING PLANS FOR SPECIFIC DIMENSIONING OF THOSE ELEMENTS.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS & ELEVATIONS SHOWN IN PLAN & DETAILS IN THE FIELD & NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
3. WRITTEN DIMENSIONS PREVAIL OVER SCALED DIMENSIONS. NOTIFY LANDSCAPE ARCHITECT OF DISCREPANCIES.
4. WHERE DIMENSIONS ARE CALLED AS "EQUAL," SPACE REFERENCED ITEMS EQUALLY, MEASURED FROM THEIR CENTERLINES.
5. MEASUREMENTS ARE TO FACE OF BUILDING, WALL OR FIXED SITE IMPROVEMENT. DIMENSIONS TO CENTER LINES ARE INDICATED.
6. INSTALL INTERSECTING ELEMENTS AT 90 DEGREE ANGLES TO EACH OTHER UNLESS OTHERWISE NOTED.
7. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR BUILDING DIMENSIONS.
8. THE CONTRACTOR SHALL REFER TO THE CIVIL DRAWINGS FOR INFRASTRUCTURE LAYOUT & SHALL NOTIFY THE LANDSCAPE ARCHITECT OF CONFLICTS AND/OR DISCREPANCIES.
9. PAVER DIMENSIONS ARE NOMINAL. PRIOR TO POURING SLABS, BANDING, OR OTHERWISE SETTING PAVER FIELDS, VERIFY ACTUAL PAVER SIZES & LAYOUT OF PAVER FIELDS. MAKE MINOR ADJUSTMENTS TO EDGE CONSTRAINTS AS REQUIRED TO ACCOMMODATE ACTUAL PAVER SIZES. NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY OF DISCREPANCIES AND/OR ADJUSTMENTS.
10. UTILIZE GPS/GNSS FOR CONSTRUCTION STAKING TO ACCURATELY LOCATE HARDSCAPE ELEMENTS NOT LOCATED OR DIMENSIONED ON THE PLANS. STAKING TO BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.



PAVING & MATERIAL NOTES

1. SUBGRADE PREPARATION, PAVEMENT STRENGTH & THICKNESS SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT PREPARED FOR THIS PROJECT. IF ONE DOES NOT EXIST, CONTACT THE PROJECT ENGINEER FOR ALL QUESTIONS REGARDING SUBGRADE PREPARATION.
   A. PRIOR TO PREPARATION OF THE SUBBASE, THE SUBGRADE SHALL BE PROOF ROLLED WITH HEAVY PNEUMATIC EQUIPMENT. ANY SOFT OR PUMPING AREAS SHALL BE EXCAVATED TO FIRM SUBGRADE, BACKFILLED & COMPACTED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.
   B. PAVEMENT SUBGRADE SHALL BE GRADED TO PREVENT PONDING & INFILTRATION OF EXCESSIVE MOISTURE ON OR ADJACENT TO THE PAVEMENT SUBGRADE.
2. THE USE OF "LEVEL UP" SAND UNDER PAVEMENT WILL NOT BE ACCEPTED, UNLESS NOTED OTHERWISE.
3. CONCRETE SHALL NOT BE PLACED WHEN THE TEMPERATURE IS BELOW 40° F & FALLING, BUT MAY BE PLACED WHEN THE TEMPERATURE IS ABOVE 35° F & RISING. THE TEMPERATURE READING SHALL BE TAKEN IN THE SHADE AWAY FROM ARTIFICIAL HEAT.
4. DO NOT PLACE CONCRETE WHILE IT IS RAINING OR WHEN RAIN IS IMMINENT.
5. LAY PAVERS IN PATTERN(S) SHOWN ON DRAWINGS. PLACE UNITS HAND TIGHT WITHOUT USE OF HAMMERS. MAKE HORIZONTAL ADJUSTMENTS TO PLACEMENT OF LAID PAVERS WITH RUBBER HAMMERS AS REQUIRED.
6. PROVIDE JOINTS BETWEEN PAVERS ACCORDING TO RESPECTIVE DETAILS. NO MORE THAN 5% OF THE JOINTS SHALL EXCEED 1/4 IN. WIDE TO ACHIEVE STRAIGHT BOND LINES.
7. JOINT(BOND) LINES SHALL NOT DEVIATE MORE THAN ±1/2 IN. OVER 50 FT. FROM STRING LINES.
8. FILL GAPS AT EDGES OF PAVED AREA WITH CUT PAVERS OR EDGE UNITS.
9. CUT ALL PAVERS TO BE PLACED ALONG THE EDGE WITH A MASONRY SAW.
10. ADJUST BOND PATTERN AT PAVEMENT EDGES SUCH THAT CUTTING OF EDGE PAVERS IS MINIMIZED.
11. IN NO CASE SHALL A CUT PAVER BE LESS THAN 1/3 OF A FULL PAVER SIZE.
12. PAVER DIMENSIONS ARE NOMINAL. PRIOR TO POURING SLABS, BANDING, OR OTHERWISE SETTING PAVER FIELDS, VERIFY ACTUAL PAVER SIZES & LAYOUT OF PAVER FIELDS. MAKE MINOR ADJUSTMENTS TO EDGE CONSTRAINTS AS REQUIRED TO ACCOMMODATE ACTUAL PAVER SIZES. NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY OF DISCREPANCIES AND/OR ADJUSTMENTS.
13. PROVIDE HARDSCAPE MOCKUPS PER SHEET L2.02.

REFERENCE NOTES SCHEDULE

CODE	DESCRIPTION	DETAIL
SITE FURNISHINGS		
F-101	REMOVABLE BOLLARDS	1/L2.01
F-102	TRASH RECEPTACLE	2/L2.01
F-103	BENCH	3/L2.01
F-104	NEW PICNIC TABLE	4/L2.01
SITE LIGHTING		
L-101	FESTOON LIGHTING	5/L2.01
L-102	LIGHT POST	7/L2.01
L-103	PEDESTAL OUTLET	8/L2.01
L-104	VEHICULAR POLE LIGHT	9/L2.01
L-105	LIGHTED BOLLARD	10/L2.01
PAVING SCHEDULE		
P-101	CONCRETE PAVEMENT, 4 INCH - PEDESTRIAN	12/L2.01
P-103	BRICK PAVER ON SAND SETTING BED	13/L2.01
P-104	BRICK PAVER ON CONCRETE SLAB	14/L2.01
P-106	SYNTHETIC TURF	1/L2.02
P-107	FLAGSTONE PAVING	2/L2.02
P-108	CONCRETE PAVEMENT, 6 INCH - VEHICULAR	3/L2.02
P-109	DETECTABLE WARNING PAVERS	4/L2.02
P-110	ROCK SWALE	5/L2.02
P-111	FLAGSTONE PAVER PATH	6/L2.02
RAILING		
R-101	HANDRAIL	7/L2.02
STAIRS		
S-101	CONCRETE STAIR	8/L2.02
S-102	STONE SLAB STAIRS	9/L2.02
WALLS & CURBING		
W-101	STAGE WALL	1/L2.03
W-102	STONE VENEER HEADWALL	1/L2.03

NORTH

0' 20' 40' 80'
SCALE: 1 IN = 20 FT

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6120 Powers Ferry Road NW, Suite 500
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PERROW PARK
JASPER, GA
LATL240013

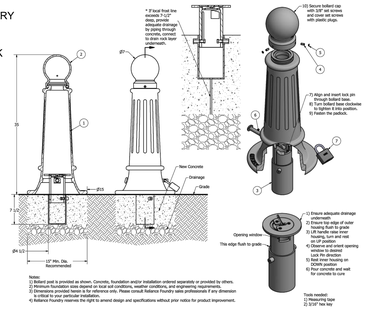
GEORGIA REGISTERED LANDSCAPE ARCHITECT WILLIAM MATTHEW MITCHELL No. 1618

HARDSCAPE PLAN

L1.01

REMOVABLE BOLLARD:

MANUF.: RELIANCE FOUNDRY
MODEL: BOLLARD R-7589
OPTIONS: RETRACTABLE
FINISH: STANDARD BLACK



Notes:
1) Bollard spot is provided as shown. Concrete, foundation and/or installation ordered separately or provided by others.
2) Minimum foundation sizes depend on local soil conditions, weather conditions, and engineering requirements.
3) Dimensions provided are for general reference only. Please consult Reliance Foundry sales professionals if any dimension is critical to your particular installation.
4) Reliance Foundry reserves the right to amend design and specifications without prior notice for product improvement.

1 REMOVABLE BOLLARD
NOT TO SCALE

TRASH RECEPTACLE:

MANUFACTURER: VICTOR STANLEY
MODEL: EB-45
FINISH: STANDARD BLACK\
OPTIONS: SPHERICAL DOME LID

2 TRASH RECEPTACLE
NOT TO SCALE

BENCH:

MANUFACTURER: VICTOR STANLEY
MODEL: RB-28
LENGTH: 6' LENGTH
FINISH: STANDARD BLACK

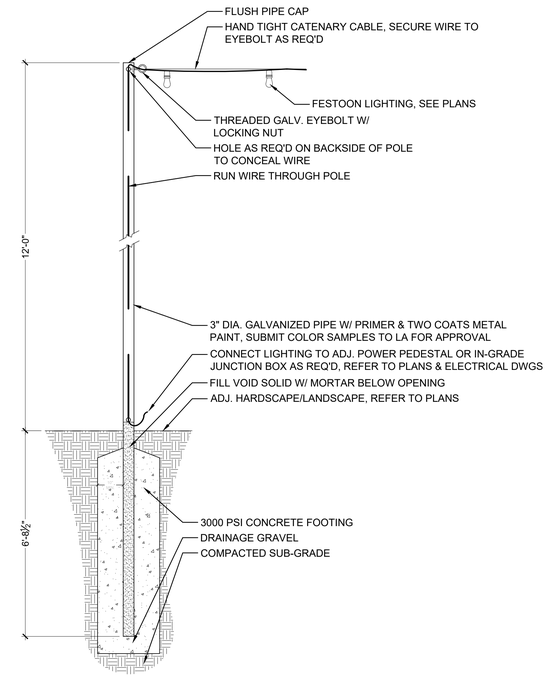
3 BENCH
NOT TO SCALE

PICNIC TABLE:

MANUFACTURER: VICTOR STANLEY
MODEL: PT-2
FINISH: BLACK TUBING WITH IPE WOOD SLATS
OPTIONS: INCLUDE (1) ADA COMPLIANT CONFIGURATION
MOUNTING: SURFACE MOUNT

NOTE: DEDUCT ALTERNATE SHALL BE EXISTING PICNIC TABLES TO REMAIN

4 PICNIC TABLE
NOT TO SCALE



5 FESTOON LIGHT POLE
1/2" = 1'-0"

PRODUCT REFERENCE IMAGE:

STRING LIGHTING:

MANUF.: PRIMUS LIGHTING
SERIES: DECOSTRING WET (DSW)
SPACING: 24"
LAMP: S14/C/24/150
LAMP COLOR: CLEAR
SHADE: NONE
LENGTH: AS REQ'D (APX. 200')

NOTE: INSTALL PER MANUF. RECOMMENDATIONS, REFER TO ELEC. DWGS. FOR ADDITIONAL INFORMATION.

6 DECOSTRING STRING LIGHTS
NOT TO SCALE

PEDESTRIAN POLE LIGHT:

MANUFACTURER: BRANDON INDUSTRIES
LAMP MODEL: AGA1A POST TOP
FINISH: BLACK POWDER-COAT
TEMPERATURE: 4000K
WATTAGE: 54W

BASE AND POLE:

MANUFACTURER: BRANDON INDUSTRIES
MODEL: CL6 LUMINAIRE BASE AND POLE
FINISH: FLUTED BLACK
HEIGHT: 12' POLE HT.

7 PEDESTRIAN POLE LIGHT
NOT TO SCALE

PEDESTAL OUTLET:

MANUFACTURER: ARLINGTON
MODEL: GARD-N-POST GP19
FINISH: BLACK
HEIGHT: 19.5" HT.

8 PEDESTAL OUTLET
NOT TO SCALE

VEHICULAR POLE LIGHT:

MANUFACTURER: MCGRAW-EDISON
MODEL: GALN GALLEON II
POLE HEIGHT: 30' HT.
FINISH: BLACK
TEMPERATURE: 4000K

NOTE:

INSTALL POLE BASE PER MANUFACTURER'S RECOMMENDATIONS; SUBMIT SHOP DRAWINGS FOR APPROVAL BY LANDSCAPE ARCHITECT

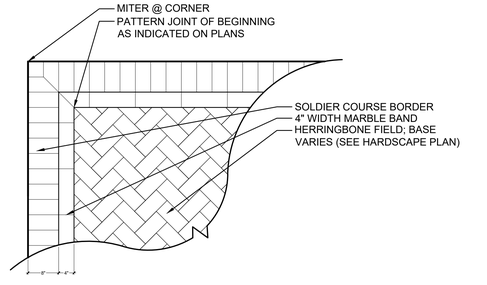
9 VEHICULAR POLE LIGHT
NOT TO SCALE

PRODUCT REFERENCE IMAGE:

LIGHTED BOLLARD:

MANUF.: RELIANCE FOUNDRY
SERIES: R-9831 LIGHTED BOLLARD
COLOR TEMP: 4000K
MATERIAL: ALUMINUM
COLOR: BLACK TEXTURED SEMI-GLOSS POLYESTER POWDER COAT
HEIGHT: 39.4"

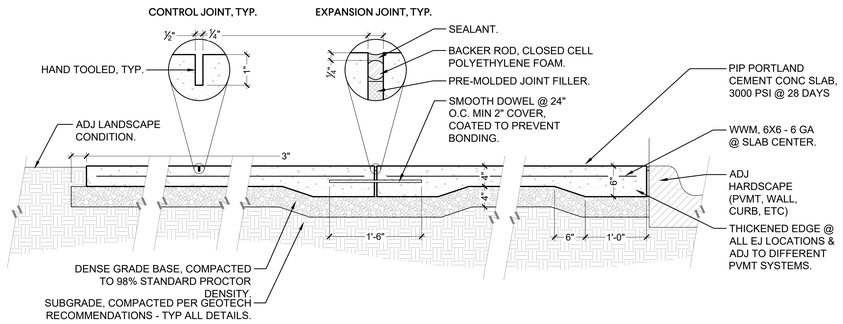
10 LIGHTED BOLLARD
NOT TO SCALE



11 BRICK PAVING PLAN
3/4" = 1'-0"

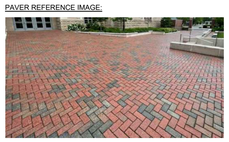
DECORATIVE CONCRETE PAVING NOTES:

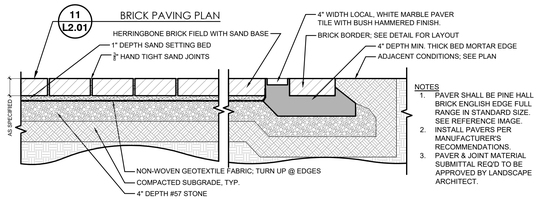
1. BROOM FINISH ALL CONCRETE PERPENDICULAR TO TRAFFIC FLOW UNLESS OTHERWISE NOTED.
2. SEAL ANY EXPOSED AGGREGATE SURFACES W/ LM SCOFIELD REPELLO AS BASIS OF DESIGN.
3. EXPANSION JOINTS (EJ) TO OCCUR ADJ TO ALL COLD POURS, VERTICAL SURFACES, & AS SHOWN ON PLANS.
4. SPACE EJ MAX 30 FT O.C. UNLESS SHOWN OTHERWISE ON PLANS.
5. CONTROL JOINTS (CJ) TO OCCUR IN ALL CONC SLABS & BANDS AS SHOWN ON PLANS. WHERE NOT SHOWN ON PLANS, SPACE JNTS EQUAL TO SLAB WIDTH - 12 FT MAX.



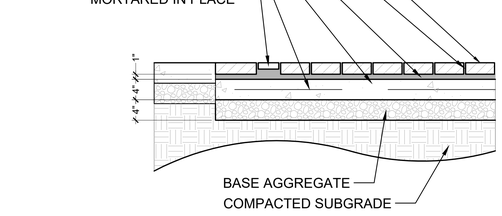
12 CONCRETE PAVEMENT, 4 INCH - PEDESTRIAN
1" = 1'-0"

PAVER REFERENCE IMAGE:





13 BRICK PAVER ON SAND SETTING BED
1" = 1'-0"



14 BRICK PAVER ON CONCRETE SLAB
1" = 1'-0"

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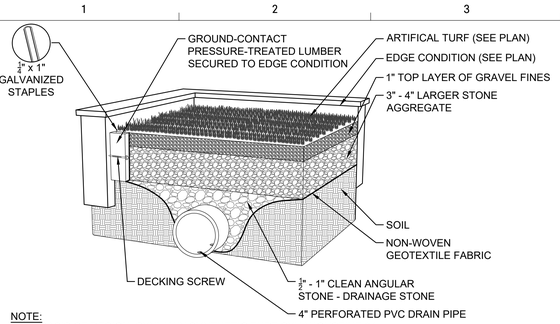
HARDSCAPE DETAILS

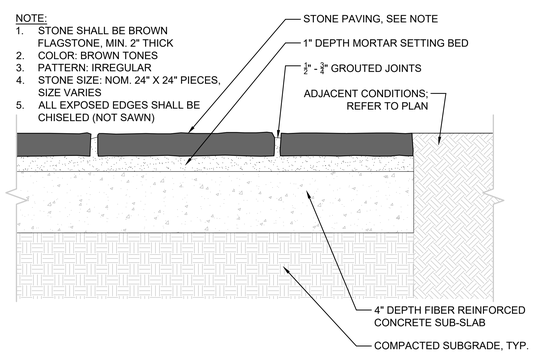
L2.01



NOTE:
1. BASIS OF DESIGN: SYNLAWN SYNTHETIC TURF SYNAUGUSTINE 347
2. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
3. FOR PRODUCT AND COMPANY INFORMATION VISIT: synlawn.com
4. CONTRACTOR SHALL PROVIDE ALTERNATE PRICING FOR APPROVED EQUAL.

1 SYNTHETIC TURF INSTALLATION
2" = 1'-0"

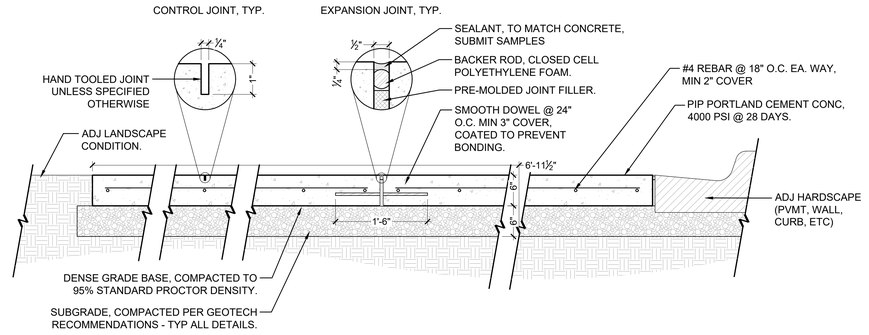
NOTE:
1. STONE SHALL BE BROWN FLAGSTONE, MIN. 2" THICK
2. COLOR: BROWN TONES
3. PATTERN: IRREGULAR
4. STONE SIZE: NOM. 24" X 24" PIECES, SIZE VARIES
5. ALL EXPOSED EDGES SHALL BE CHISELED (NOT SAWN)



2 FLAGSTONE PAVING
3" = 1'-0"

DECORATIVE CONCRETE PAVING NOTES:

1. REFER TO PLANS FOR CONC COLORING IF APPLICABLE.
2. BROOM FINISH ALL CONC PERPENDICULAR TO TRAFFIC FLOW UNLESS OTHERWISE NOTED.
3. SEAL ALL BROOM FINISHED CONC W/ SILANE OR SILOXANE BASED SEALER.
4. SEAL ANY EXPOSED AGGREGATE SURFACES W/ LM SCOFIELD REPELLO AS BASIS OF DESIGN.
5. EXPANSION JOINTS (EJ) TO OCCUR ADJ TO ALL COLD POURS, VERTICAL SURFACES, & AS SHOWN ON PLANS.
6. SPACE EJ MAX 30 FT O.C. UNLESS SHOWN OTHERWISE ON PLANS.
7. CONTROL JOINTS (CJ) TO OCCUR IN ALL CONC SLABS & BANDS AS SHOWN ON PLANS. WHERE NOT SHOWN ON PLANS, SPACE JNTS EQUAL TO SLAB WIDTH - 12 FT MAX.



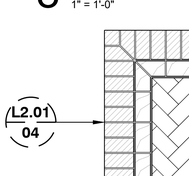
3 CONCRETE PAVEMENT, 6 INCH - VEHICULAR
1" = 1'-0"

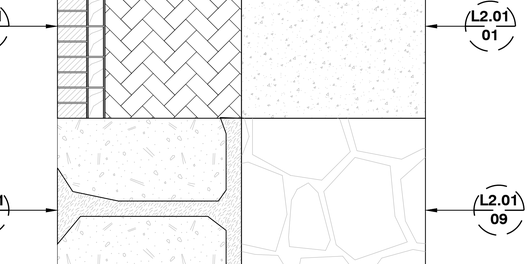
PAVER INFORMATION:

MANUFACTURER:	PINE HALL BRICK
MODEL:	ADA TRUNCATED DOME PAVER
COLOR:	FULL RANGE TO MATCH BRICK FIELD
CONTACT:	pinehallbrick.com

4 TRUNCATED DOME PAVER
NOT TO SCALE

ROCK MIX REFERENCE IMAGE:





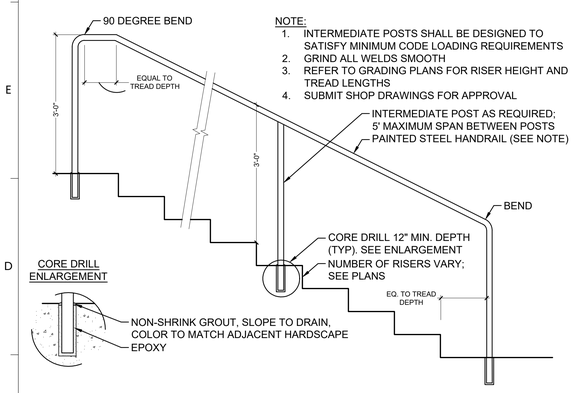
5 ROCK DRAINAGE SWALE
1 1/2" = 1'-0"

NOTE:
1. STONE SHALL BE BROWN FLAGSTONE, MIN. 2" THICK
2. COLOR: BROWN TONES
3. PATTERN: IRREGULAR
4. STONE SIZE: NOM. 36" X 24" PIECES, SIZE VARIES
5. ALL EXPOSED EDGES SHALL BE CHISELED (NOT SAWN)

6 FLAGSTONE PAVER PATH DETAIL
3" = 1'-0"

NOTE:
1. CONCEPT IMAGE INCLUDED TO SHOW DESIGN INTENT
2. IMAGE NOT TO SCALE

7 HANDRAIL DETAIL
3/4" = 1'-0"

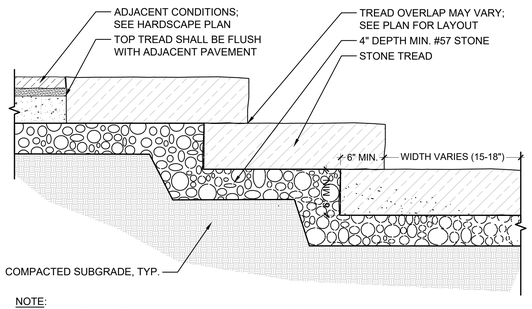


NOTE:
1. INTERMEDIATE POSTS SHALL BE DESIGNED TO SATISFY MINIMUM CODE LOADING REQUIREMENTS
2. GRIND ALL WELDS SMOOTH
3. REFER TO GRADING PLANS FOR RISER HEIGHT AND TREAD LENGTHS
4. SUBMIT SHOP DRAWINGS FOR APPROVAL

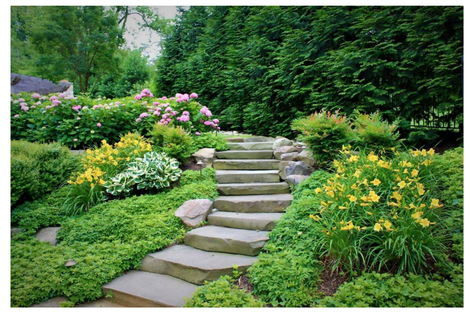
8 SECTION: CONCRETE STAIR DETAIL
1" = 1'-0"

NOTES:
1. NUMBER OF STEPS VARIES. REFER TO PLANS
2. TOP STEP SHALL MEET PAVEMENT FLUSH.
3. HEIGHTS OF RISERS VARY, REFER TO GRADING PLANS (4" MIN. 7" MAX.).
4. INDIVIDUAL RISERS ON CONSECUTIVE STAIRS SHALL BE EQUAL.
5. TREADS SHOULD SLOPE AWAY FROM RISER AT 1% TO PREVENT WATER COLLECTION

9 STONE SLAB STAIR
1 1/2" = 1'-0"

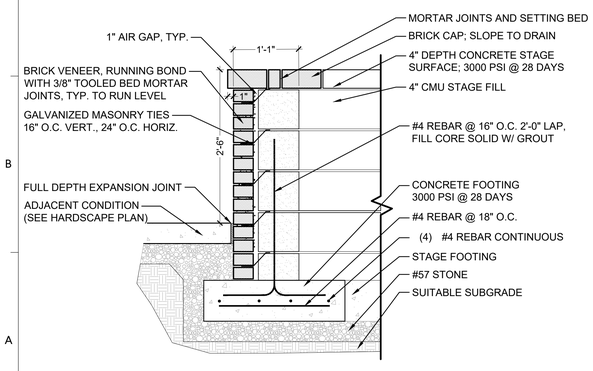


NOTE:
1. STONE TREAD: TUMBLED FLAGSTONE OR APPROVED EQUAL
2. SEE HARDSCAPE PLAN FOR TOTAL NUMBER OF TREADS
3. TREAD SLOPE SHALL BE MIN. 1% TO DRAIN
4. STONE FINISH TO MEET OR EXCEED MIN. ADA SLIP COEFFICIENT
5. 6' STAIR WIDTH MIN. MATERIAL SAMPLE SUBMITTAL REQUIRED.



NOTE:
1. CONCEPT IMAGE INCLUDED TO SHOW DESIGN INTENT
2. IMAGE NOT TO SCALE

10 STAGE WALL SECTION
1" = 1'-0"



11 MATERIALS MOCK-UP PLAN
3/4" = 1'-0"

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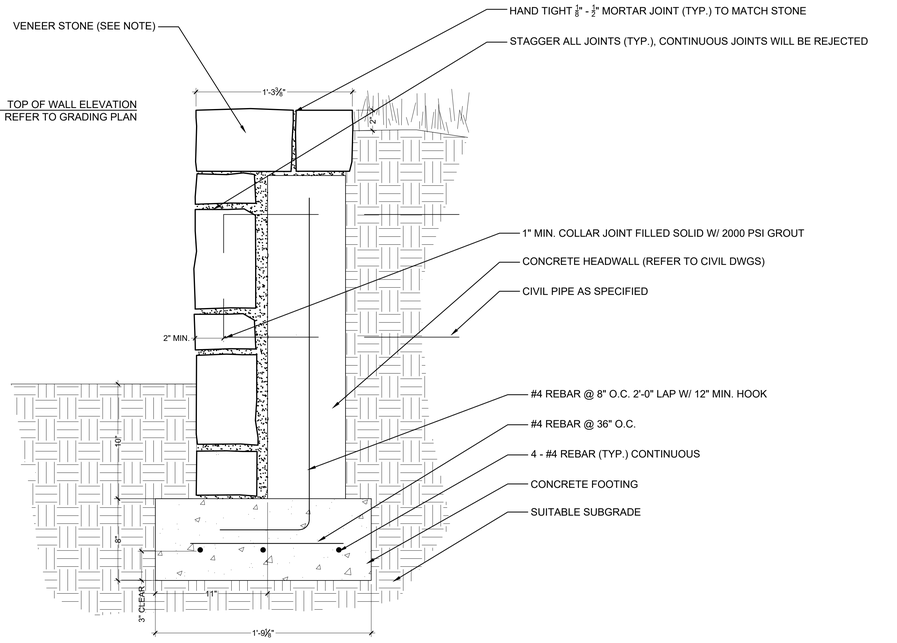
HARDSCAPE DETAILS

L2.02

VENEER STONE:
ELBERTON GRANITE
ASHLAR PATTERN

NOTE:
ALL EXPOSED FACES OF CONCRETE HEADWALL TO RECEIVE STONE VENEER

TOP OF WALL ELEVATION
REFER TO GRADING PLAN



1 HEADWALL SECTION
2" = 1'-0"

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HARDSCAPE DETAILS

L2.03

LEGEND		
SYMBOL	DESCRIPTION	AREA/ QUANTITY
	EXTERIOR WALL LIGHTS	3
	INTERIOR CEILING LIGHTS	6

WALL TYPE SCHEDULE

8" REINFORCED CONCRETE MASONRY BLOCK WALL WITH MORTAR JOINTS, GROUTED SOLID ALL CELLS RUNNING BOND PATTERN.

PRELIMINARY

THESE PLAN VIEW AND ELEVATION DRAWINGS ARE A PRELIMINARY ARCHITECTURAL REPRESENTATION OF THE BUILDING. ALL DIMENSIONS, FEATURES AND COMPONENTS SHOWN ON THESE PRELIMINARY DRAWINGS MAY OR MAY NOT BE PART OF THE QUOTE. PLEASE REFER TO THE "SCOPE OF SUPPLY AND SERVICES" LETTER PROVIDED WITH YOUR QUOTE FOR ROMTEC'S PROPOSED SCOPE OF SUPPLY.

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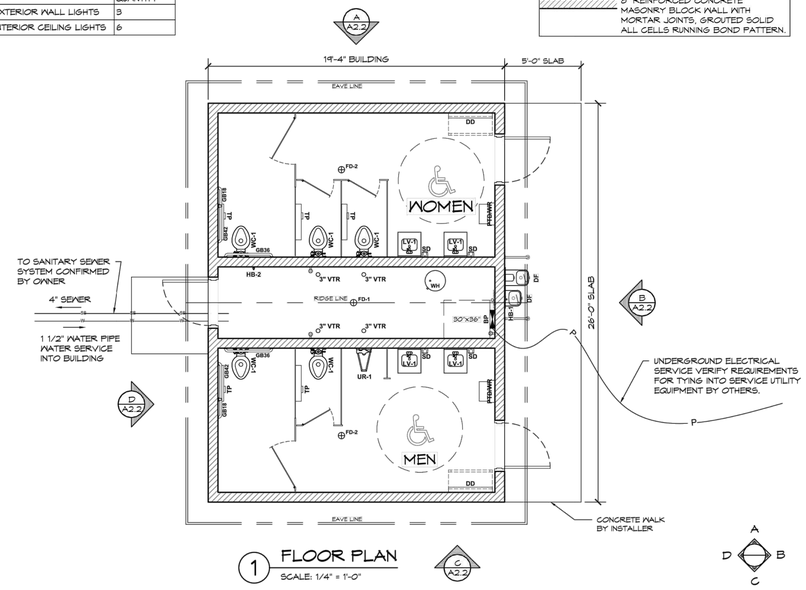
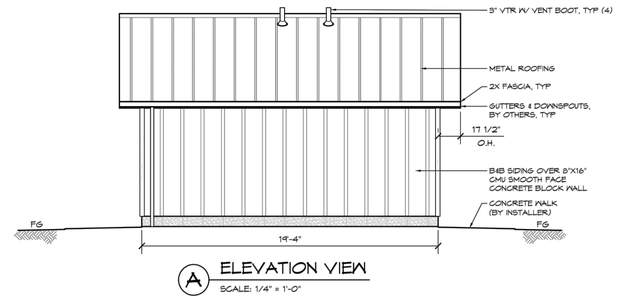
OR PRE-APPROVED EQUAL

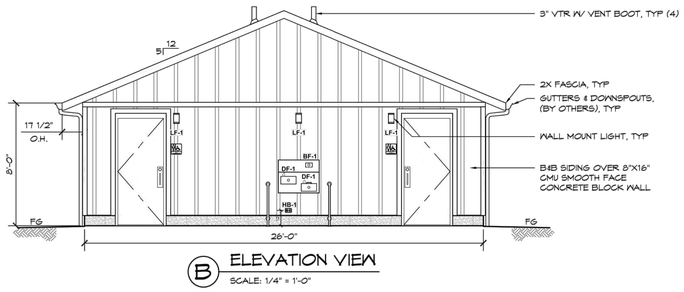


1 FLOOR PLAN
SCALE: 1/4" = 1'-0"



A ELEVATION VIEW
SCALE: 1/4" = 1'-0"

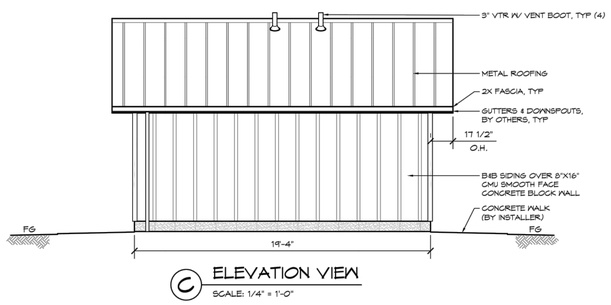
2 ELEVATION VIEW - A
1/4" = 1'-0"



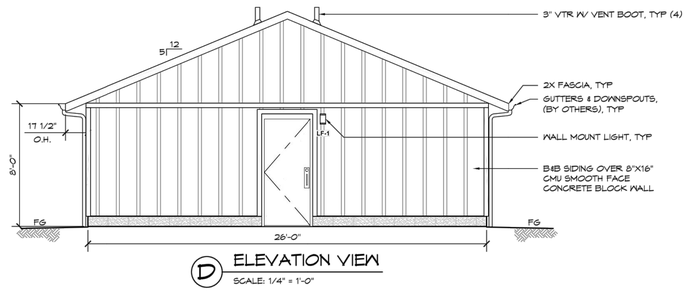
B ELEVATION VIEW
SCALE: 1/4" = 1'-0"

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

3 ELEVATION VIEW - B
1/4" = 1'-0"



C ELEVATION VIEW
SCALE: 1/4" = 1'-0"



D ELEVATION VIEW
SCALE: 1/4" = 1'-0"

4 ELEVATION VIEW - C
1/4" = 1'-0"

5 ELEVATION VIEW - D
1/4" = 1'-0"

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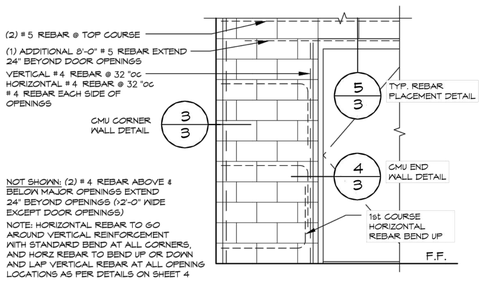
RESTROOM DETAILS

A1.01



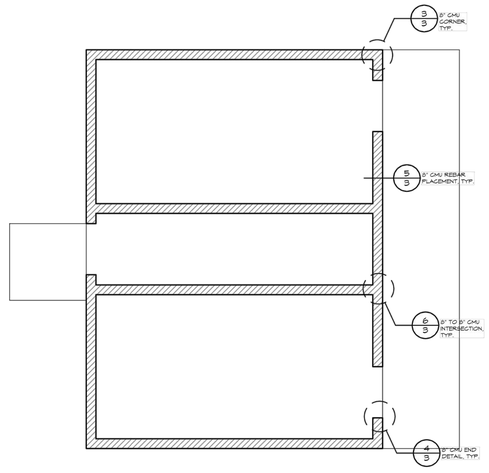
1 CMU REBAR LAYOUT DETAIL
SCALE: 1" = 1'-0"

CMU REBAR SCHEDULE

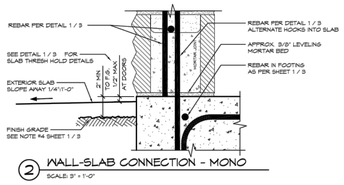
REBAR	MIN. LAP	BEND DIAMETER
#4	24"	5" MIN.
#5	30"	3-3/4" MIN.

CMU REBAR NOTES:
- BENDS: MIN. INSIDE BEND DIAMETER SHALL BE NOT LESS THAN 6d AS PER TMS 402-16 SECTION 6.1.8.2
- SPLICES: LAP SPLICES ARE PERMITTED AS PER TMS 402-16 SECTION 6.1.6.1.1

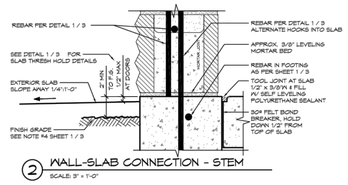
PIPES INSTALLED THROUGH CMU WALL NOTES:
- SUPPLY: THE FIXTURE SUPPLY LINE SHOULD BE BORED A 1/2" LARGER THAN REQUIRED LINE SIZE AND THE PORTION OF PIPE LOCATED IN CMU WALL SHALL BE WRAPPED WITH 10MIL BLACK TAPE
- WASTE PIPE: THE FIXTURE WASTE LINE SHOULD BE BORED A 1/2" LARGER THAN REQUIRED LINE SIZE.



A STRUCTURAL CMU PLAN
SCALE: 1/4" = 1'-0"

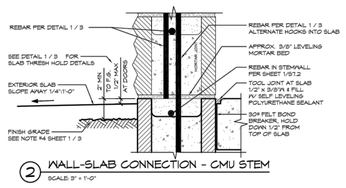


2 WALL-SLAB CONNECTION - MONO
SCALE: 3" = 1'-0"

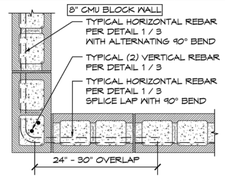


2 WALL-SLAB CONNECTION - STEM
SCALE: 3" = 1'-0"

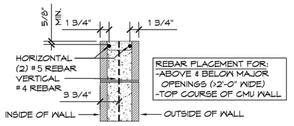
EXTERIOR WALL CONNECTIONS DETERMINED - PER DETAIL 1/4



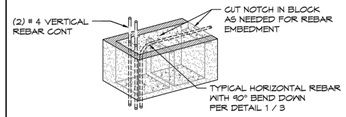
2 WALL-SLAB CONNECTION - CMU STEM
SCALE: 3" = 1'-0"



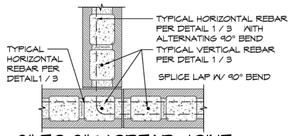
3 MORTAR JOINT CMU CORNER DETAIL
SCALE: 1" = 1'-0"



NOTE: REBAR INSTALLED AS PER TMS 602-13/ACI 530.1-13/ASCE 6-13
5 8" CMU REBAR PLACEMENT
SCALE: 1" = 1'-0"



4 MORTAR JOINT CMU WALL END DETAIL
SCALE: 1" = 1'-0"



6 8" TO 8" MORTAR JOINT CMU INTERSECTION DETAIL
SCALE: 1" = 1'-0"

PRELIMINARY

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PROJECT: PERROW PARK- RESTROOM
JASPER, GEORGIA

SHEET TITLE: STRUCTURAL CMU PLAN & DETAILS SPECIFICATIONS

PROJECT #: 2146B
DATE: 05/20/25
DRAWN BY: JS

REV	DATE	BY

REVISIONS:

SHEET NO: S3.1

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ISSUE DATE
BID SET 2025.05.22

DRAWN BY: NLH
CHECKED BY: MM

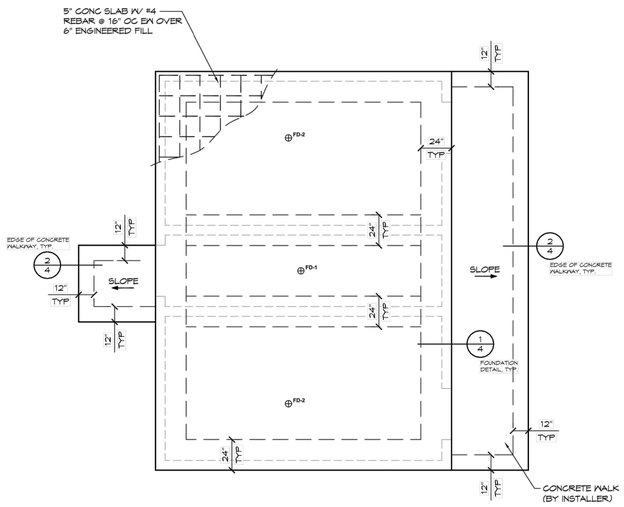
PERROW PARK
JASPER, GA

GEORGIA REGISTERED LANDSCAPE ARCHITECT WILLIAM MATTHEW MITCHELL

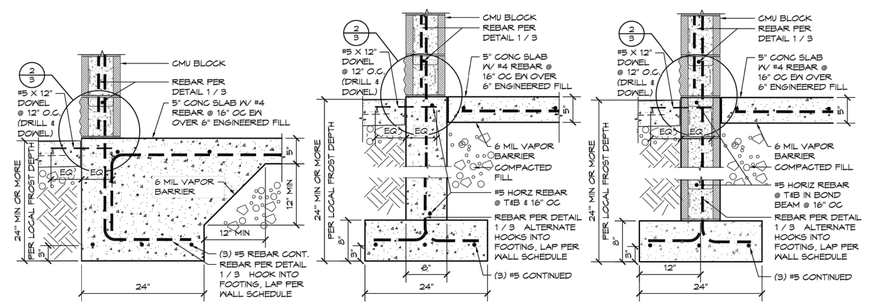
LATL240013

RESTROOM
STRUCTURAL DETAILS

S1.01



A FOUNDATION PLAN
SCALE: 1/4" = 1'-0"

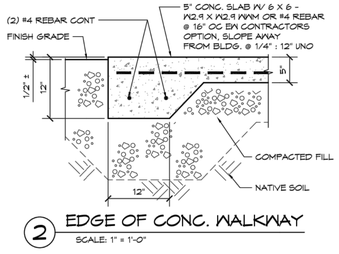


MONOLITHIC SLAB OPTION | CONCRETE STEM WALL FOOTING OPTION | CMU STEM WALL OPTION
BLOCK FOR STEM WALL SUPPLIED BY INSTALLER

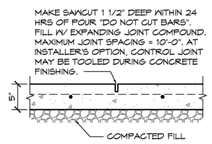
1 FOUNDATION DETAIL
SCALE: N.T.S.

GENERAL NOTES:
* WHEN USING EITHER STEM WALL OPTION RECESS STEM WALL THE THICKNESS OF SLAB AT DOOR THRESHOLD
* PRIVACY WALLS TO HAVE A 30" WIDE x 12" DEEP FOOTING, IF APPLICABLE
* CMU STEM WALL OPTION, CMU BLOCK IS BY INSTALLER
* VERTICAL REBAR IN SLAB/STEM WALL TO MATCH VERTICAL WALL REINFORCEMENT LAP PER WALL SCHEDULE

FOUNDATION DESIGN SHOWN HERE IS PRELIMINARY AND SUBJECT TO CHANGE. FINAL FOUNDATION DESIGN TO BE DETERMINED DURING THE FORTHCOMING FULL DESIGN PHASE FOR THE BUILDING. ANY INCREASED COSTS OR TIME NEEDED TO CONSTRUCT THE FINAL FOUNDATION DESIGN IS BETWEEN THE END OWNER AND THE BUILDING INSTALLER



2 EDGE OF CONC. WALKWAY
SCALE: 1" = 1'-0"



3 SAWCUT JOINT
SCALE: 1" = 1'-0"

PRELIMINARY

THESE PLAN VIEW AND ELEVATION DRAWINGS ARE A PRELIMINARY ARCHITECTURAL REPRESENTATION OF THE BUILDING. ALL DIMENSIONS, FEATURES AND COMPONENTS SHOWN ON THESE PRELIMINARY DRAWINGS MAY OR MAY NOT BE PART OF THE QUOTE. PLEASE REFER TO THE "SCOPE OF SUPPLY AND SERVICES" LETTER PROVIDED WITH YOUR QUOTE FOR ROMTEC'S PROPOSED SCOPE OF SUPPLY.

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PROJECT: PERROW PARK- RESTROOM
JASPER, GEORGIA
SHEET TITLE: FOUNDATION PLAN & DETAILS SPECIFICATIONS
PROJECT #: 2746B
DATE: 05/20/25
DRAWN BY: JS
REVISIONS:
SHEET NO: S4.1

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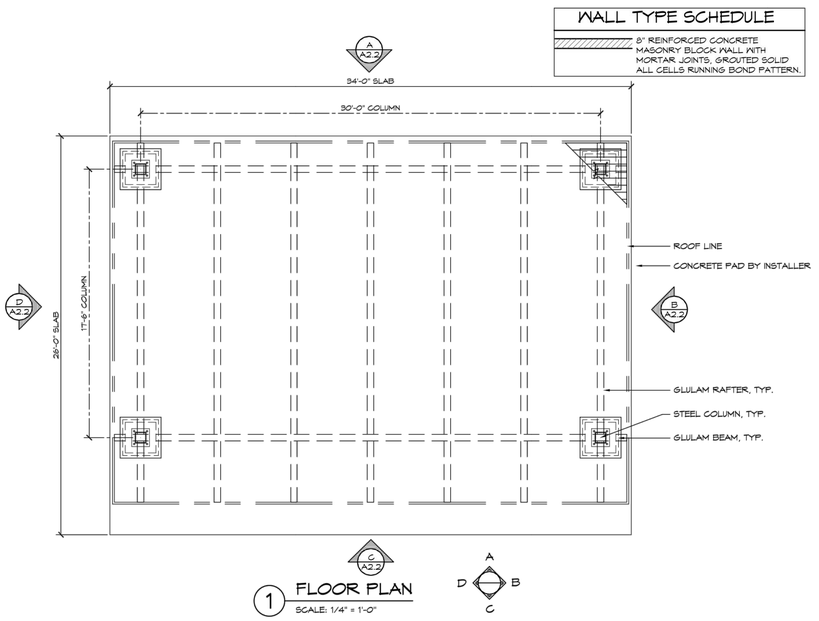
ISSUE | DATE
BID SET | 2025.05.22
DRAWN BY: NLH
CHECKED BY: MM

PERROW PARK
JASPER, GA
LATL240013

GEORGIA REGISTERED LANDSCAPE ARCHITECT No. 1615 MATTHEW MITCHELL

RESTROOM
STRUCTURAL DETAILS

S1.02



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

PRELIMINARY

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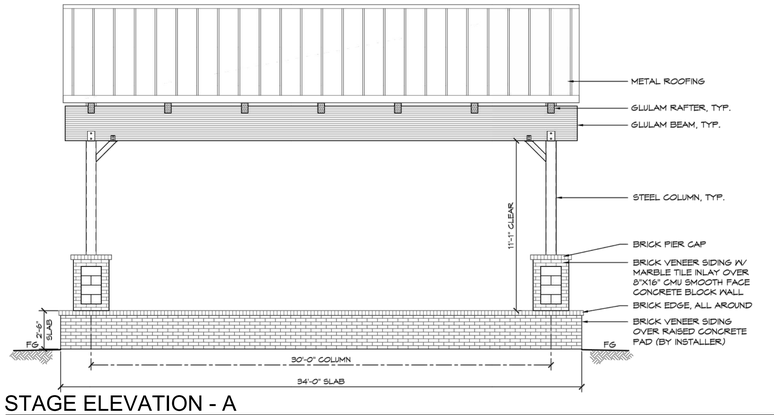
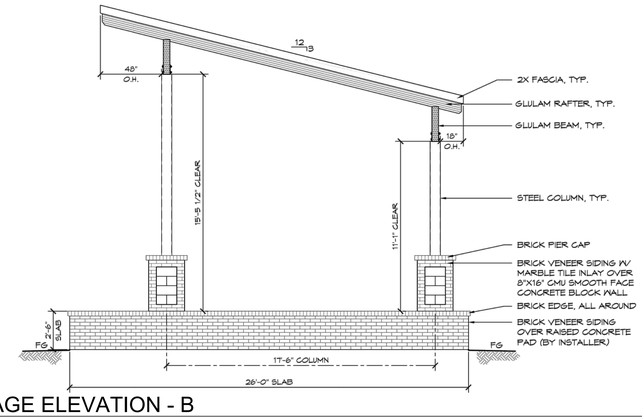
OR PRE-APPROVED EQUAL

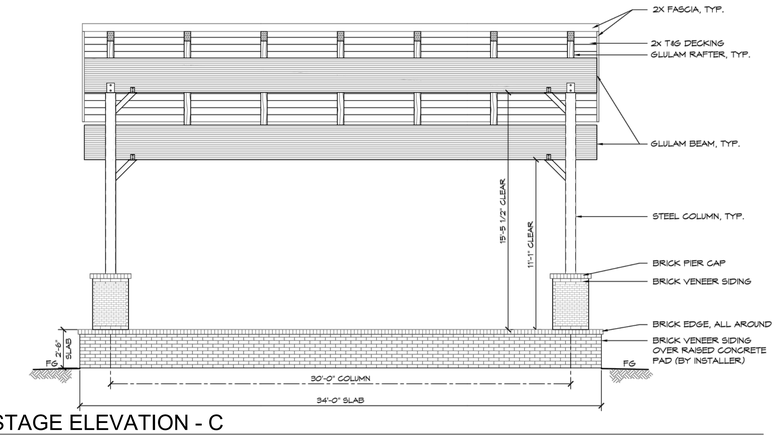


2 STAGE ELEVATION - A
1/4" = 1'-0"

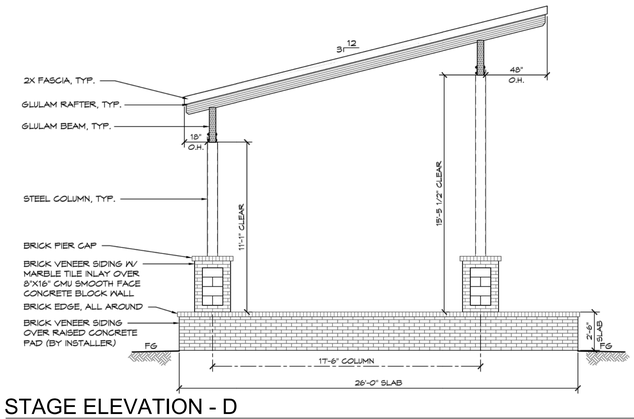
1 STAGE LAYOUT PLAN
1/4" = 1'-0"



3 STAGE ELEVATION - B
1/4" = 1'-0"



4 STAGE ELEVATION - C
1/4" = 1'-0"



5 STAGE ELEVATION - D
1/4" = 1'-0"

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ISSUE | DATE
BID SET 2025.05.22

DRAWN BY: NLH
CHECKED BY: VAM

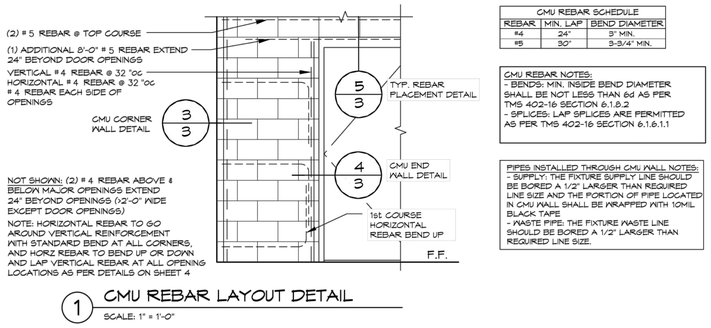
PERROW PARK
JASPER, GA

LATL240013

GEORGIA REGISTERED LANDSCAPE ARCHITECT WILLIAM MATTHEW MITCHELL

STAGE DETAILS

A2.01

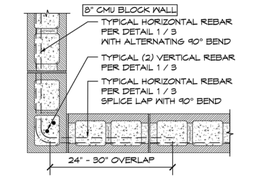


1 CMU REBAR LAYOUT DETAIL
SCALE: 1" = 1'-0"

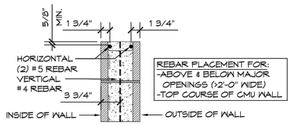
CMU REBAR SCHEDULE		
REBAR	MIN. LAP	BEND DIAMETER
#4	24"	3" MIN.
#5	30"	3-3/4" MIN.

CMU REBAR NOTES:
- BENDS: MIN. INSIDE BEND DIAMETER SHALL BE NOT LESS THAN 6d AS PER TMS 402-16 SECTION 6.1.8.2
- SPLICES: LAP SPLICES ARE PERMITTED AS PER TMS 402-16 SECTION 6.1.6.1.1

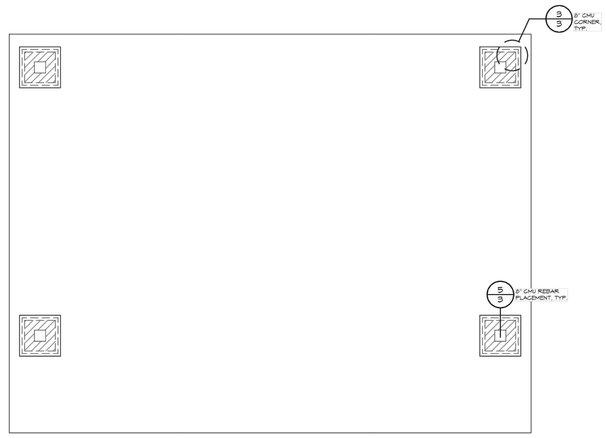
PIPES INSTALLED THROUGH CMU WALL NOTES:
- SUPPLY: THE FIXTURE SUPPLY LINE SHOULD BE BORED A 1/2" LARGER THAN REQUIRED LINE SIZE AND THE PORTION OF PIPE LOCATED IN CMU WALL SHALL BE WRAPPED WITH 10MIL BLACK TAPE
- WASTE PIPE: THE FIXTURE WASTE LINE SHOULD BE BORED A 1/2" LARGER THAN REQUIRED LINE SIZE.



3 MORTAR JOINT CMU CORNER DETAIL
SCALE: 1" = 1'-0"



NOTE: REBAR INSTALLED AS PER TMS 602-13/ACI 530.1-13/ASCE 6-13
5 8" CMU REBAR PLACEMENT
SCALE: 1" = 1'-0"



A STRUCTURAL CMU PLAN
SCALE: 1/4" = 1'-0"

PRELIMINARY

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PROJECT: PERROW PARK- STAGE
JASPER, GEORGIA
SHEET TITLE: STRUCTURAL CMU PLAN & DETAILS SPECIFICATIONS
PROJECT #: 27460
DATE: 5/19/25
DRAWN BY: JS

REVISIONS		
NO.	DATE	BY

SHEET NO: S3.1

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CHECKED BY: MM

PERROW PARK
JASPER, GA

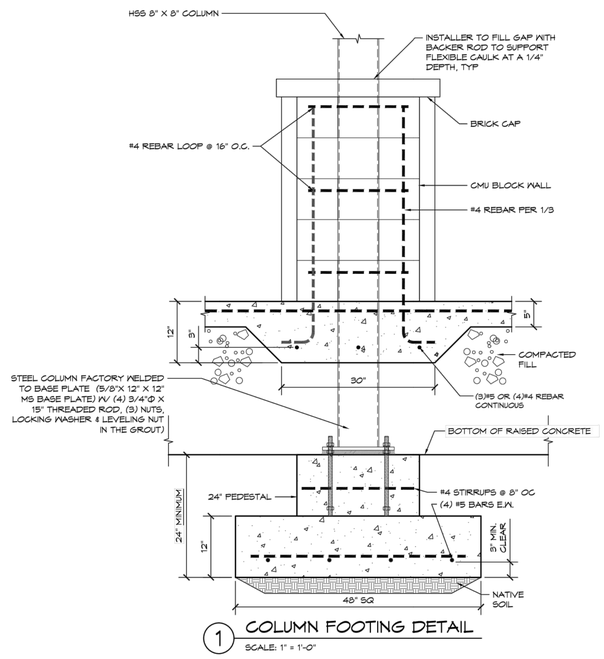
GEORGIA REGISTERED LANDSCAPE ARCHITECT WILLIAM MATTHEW MITCHELL

LATL240013

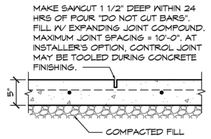
STAGE STRUCTURAL DETAILS

S2.01

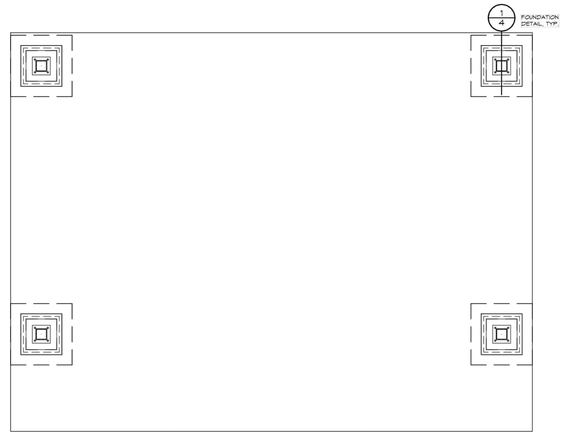
FOUNDATION DESIGN SHOWN HERE IS PRELIMINARY AND SUBJECT TO CHANGE. FINAL FOUNDATION DESIGN TO BE DETERMINED DURING THE FORTHCOMING FULL DESIGN PHASE FOR THE BUILDING. ANY INCREASED COSTS OR TIME NEEDED TO CONSTRUCT THE FINAL FOUNDATION DESIGN IS BETWEEN THE END OWNER AND THE BUILDING INSTALLER



1 COLUMN FOOTING DETAIL
SCALE: 1" = 1'-0"



3 SAWCUT JOINT
SCALE: 1" = 1'-0"



A FOUNDATION PLAN
SCALE: 1/4" = 1'-0"

PRELIMINARY

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PROJECT: PERROW PARK- STAGE
JASPER, GEORGIA

SHEET TITLE: FOUNDATION PLAN & DETAILS SPECIFICATIONS

PROJECT #: 2746G
DATE: 5/19/25
DRAWN BY: JS

REV	DATE	BY

REVISIONS:

SHEET NO: S4.1

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PERROW PARK
JASPER, GA

LATL240013

GEORGIA REGISTERED No. 1675 LANDSCAPE ARCHITECT WILLIAM MATTHEW MITCHELL

STAGE STRUCTURAL DETAILS

S2.02

LEGEND		
SYMBOL	DESCRIPTION	AREA/ QUANTITY
	EXTERIOR WALL LIGHTS	2
	INTERIOR CEILING LIGHTS	4

WALL TYPE SCHEDULE

8" REINFORCED CONCRETE MASONRY BLOCK WALL WITH MORTAR JOINTS, GROUTED SOLID ALL CELLS RUNNING BOND PATTERN.

PRELIMINARY

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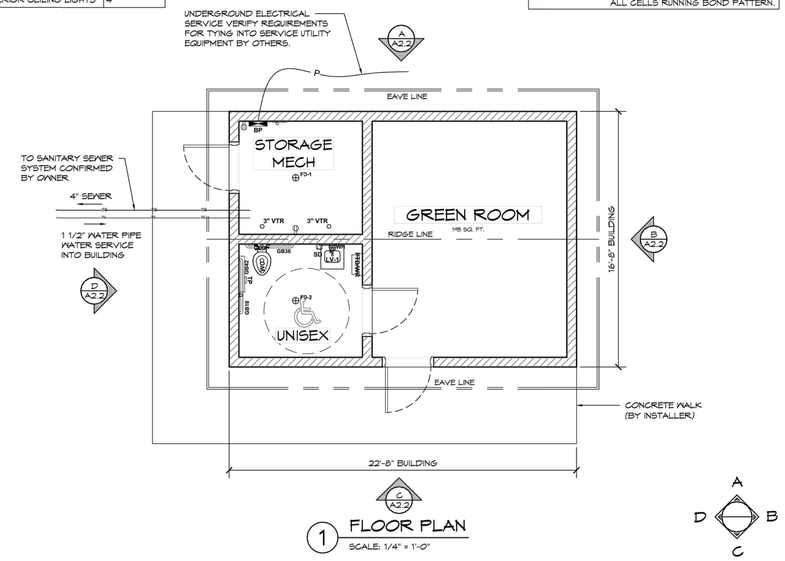
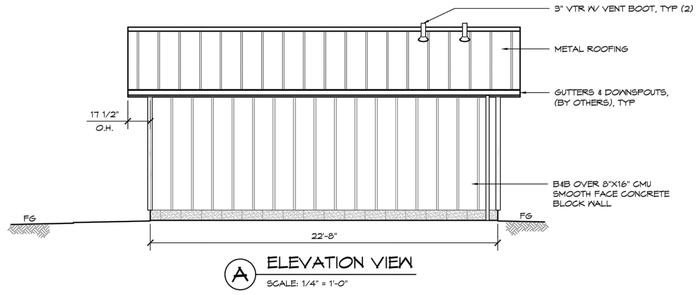
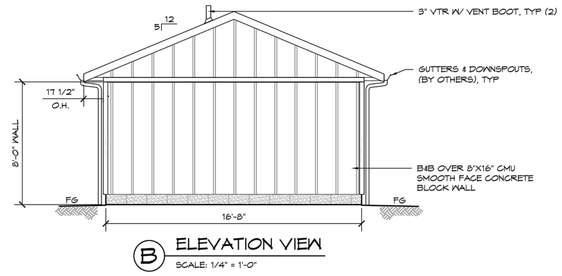


1 FLOOR PLAN
SCALE: 1/4" = 1'-0"



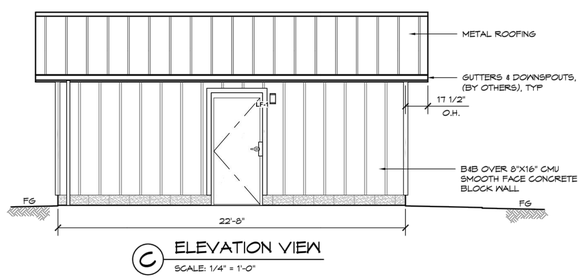
A ELEVATION VIEW
SCALE: 1/4" = 1'-0"

2 EVELATION VIEW - A
1/4" = 1'-0"



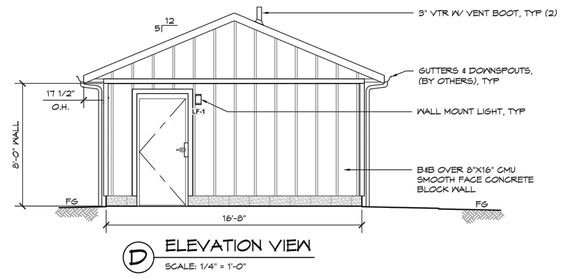
B ELEVATION VIEW
SCALE: 1/4" = 1'-0"

3 ELEVATION VIEW - B
1/4" = 1'-0"



C ELEVATION VIEW
SCALE: 1/4" = 1'-0"

4 ELEVATION VIEW - C
1/4" = 1'-0"



D ELEVATION VIEW
SCALE: 1/4" = 1'-0"

5 ELEVATION VIEW - D
1/4" = 1'-0"

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CHECKED BY: WM

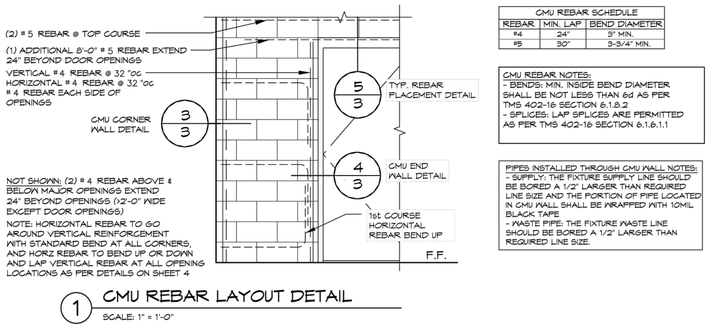
PERROW PARK
JASPER, GA

LATL240013

GEORGIA REGISTERED LANDSCAPE ARCHITECT WILLIAM MATTHEW MITCHELL

GREEN ROOM DETAILS

A3.01

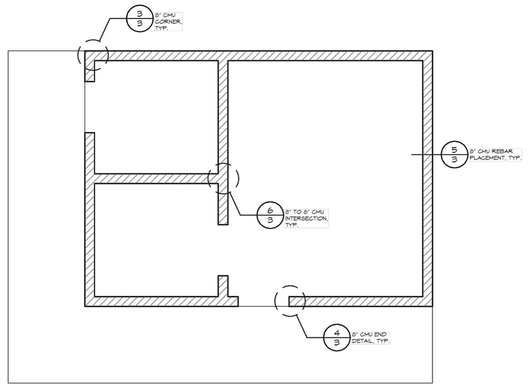


1 CMU REBAR LAYOUT DETAIL
SCALE: 1" = 1'-0"

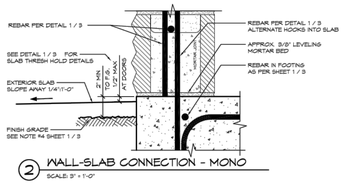
CMU REBAR SCHEDULE		
REBAR	MIN. LAP	BEND DIAMETER
#4	24"	5" MIN.
#5	30"	5-3/4" MIN.

CMU REBAR NOTES:
- BENDS: MIN. INSIDE BEND DIAMETER SHALL BE NOT LESS THAN 6d AS PER TMS 402-16 SECTION 6.1.8.2
- SPLICES: LAP SPLICES ARE PERMITTED AS PER TMS 402-16 SECTION 6.1.6.1.1

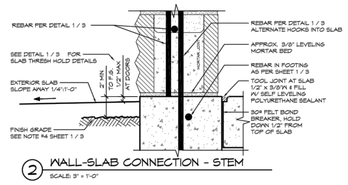
PIPES INSTALLED THROUGH CMU WALL NOTES:
- SUPPLY: THE FIXTURE SUPPLY LINE SHOULD BE BORED A 1/2" LARGER THAN REQUIRED LINE SIZE AND THE PORTION OF PIPE LOCATED IN CMU WALL SHALL BE WRAPPED WITH 10MIL BLACK TAPE
- WASTE PIPE: THE FIXTURE WASTE LINE SHOULD BE BORED A 1/2" LARGER THAN REQUIRED LINE SIZE.



A STRUCTURAL CMU PLAN
SCALE: 1/4" = 1'-0"

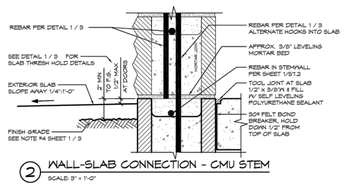


2 WALL-SLAB CONNECTION - MONO
SCALE: 3" = 1'-0"



2 WALL-SLAB CONNECTION - STEM
SCALE: 3" = 1'-0"

EXTERIOR WALL CONNECTIONS DETERMINED - PER DETAIL 1/4



2 WALL-SLAB CONNECTION - CMU STEM
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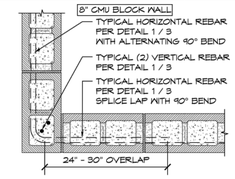
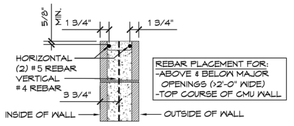
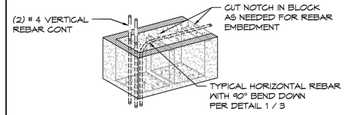


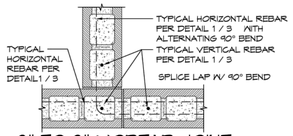
3 MORTAR JOINT CMU CORNER DETAIL
SCALE: 1" = 1'-0"



NOTE: REBAR INSTALLED AS PER TMS 602-13/ACI 530.1-13/ASCE 6-13
5 8" CMU REBAR PLACEMENT
SCALE: 1" = 1'-0"



4 MORTAR JOINT CMU WALL END DETAIL
SCALE: 1" = 1'-0"



6 8" TO 8" MORTAR JOINT CMU INTERSECTION DETAIL
SCALE: 1" = 1'-0"

PRELIMINARY

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PROJECT: PERROW PARK- GREEN ROOM
JASPER, GEORGIA
SHEET TITLE: STRUCTURAL CMU PLAN & DETAILS SPECIFICATIONS
PROJECT #: 2746A
DATE: 05/20/25
DRAWN BY: JS

REVISIONS:		
REV	DATE	BY

SHEET NO: S3.1

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BID SET 2025.05.22

DRAWN BY: NLH
CHECKED BY: MM

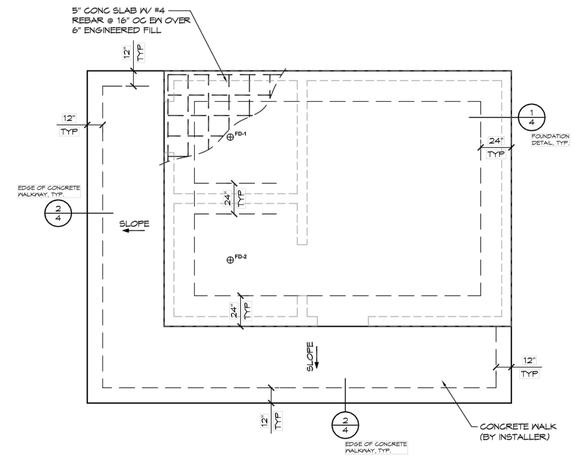
PERROW PARK
JASPER, GA

GEORGIA REGISTERED LANDSCAPE ARCHITECT WILLIAM MATTHEW MITCHELL

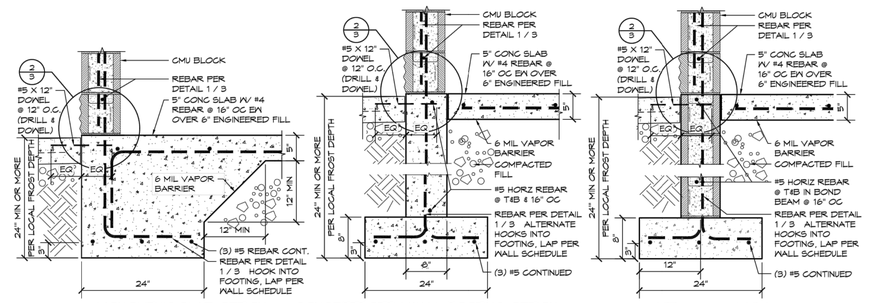
LATL240013

GREEN ROOM
STRUCTURAL DETAILS

S3.01



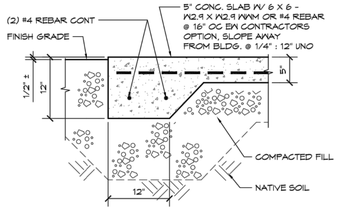
A FOUNDATION PLAN
SCALE: 1/4" = 1'-0"



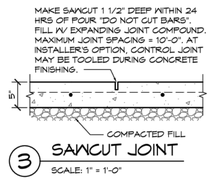
1 FOUNDATION DETAIL
SCALE: N.T.S.

GENERAL NOTES:
* WHEN USING EITHER STEM WALL OPTION RECESS STEM WALL THE THICKNESS OF SLAB AT DOOR THRESHOLD
* PRIVACY WALLS TO HAVE A 30" WIDE x 12" DEEP FOOTING, IF APPLICABLE
* CMU STEM WALL OPTION, CMU BLOCK IS BY INSTALLER
* VERTICAL REBAR IN SLAB/STEM WALL TO MATCH VERTICAL WALL REINFORCEMENT LAP PER WALL SCHEDULE

FOUNDATION DESIGN SHOWN HERE IS PRELIMINARY AND SUBJECT TO CHANGE. FINAL FOUNDATION DESIGN TO BE DETERMINED DURING THE FORTHCOMING FULL DESIGN PHASE FOR THE BUILDING. ANY INCREASED COSTS OR TIME NEEDED TO CONSTRUCT THE FINAL FOUNDATION DESIGN IS BETWEEN THE END OWNER AND THE BUILDING INSTALLER



2 EDGE OF CONC. WALKWAY
SCALE: 1" = 1'-0"



3 SAWCUT JOINT
SCALE: 1" = 1'-0"

PRELIMINARY

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PROJECT: PERROW PARK- GREEN ROOM
JASPER, GEORGIA
SHEET TITLE: FOUNDATION PLAN & DETAILS SPECIFICATIONS
PROJECT #: 2746A
DATE: 05/20/25
DRAWN BY: JS
REVISIONS:

SHEET NO: S4.1

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PERROW PARK
JASPER, GA

LATL240013

GEORGIA
REGISTERED
WILLIAM MATTHEW MITCHELL
No. 16
STATE OF GEORGIA
ARCHITECT

GREEN ROOM
STRUCTURAL DETAILS

S3.02

PLANT SCHEDULE

SYMBOL	CODE	BOTANICAL / COMMON NAME
TREES		
	ACE BUE	ACER BUERGERIANUM / TRIDENT MAPLE
	ILE NEL	ILEX X 'NELLIE R. STEVENS' / NELLIE R. STEVENS HOLLY
	ILE NE2	ILEX X 'NELLIE R. STEVENS' / NELLIE R. STEVENS HOLLY
	JUN EAS	JUNIPERUS VIRGINIANA / EASTERN REDCEDAR
	LAG SAR	LAGERSTROEMIA X 'SARAH'S FAVORITE' / SARAH'S FAVORITE CRAPE MYRTLE
	MAG BRK	MAGNOLIA GRANDIFLORA 'BRACKENS BROWN BEAUTY' / BRACKEN'S BEAUTY SOUTHERN MAGNOLIA
	NYS CJC	NYSSA SYLVATICA 'MON2' / MAJESTIC® BLACK GUM
	PIN TAE	PINUS TAEDA / LOBLOLLY PINE
	QOU NUT	QUERCUS NUTTALLII / NUTTALL OAK
	QUE PHE	QUERCUS PHELLOS / WILLOW OAK
	ULM PRI	ULMUS AMERICANA 'PRINCETON' / PRINCETON AMERICAN ELM
SHRUBS		
	AZA MRG	AZALEA INDICA 'MRS. G.G. GERBING' / MRS. G.G. GERBING INDICA AZALEA
	FOR INT	FORSYTHIA X INTERMEDIA / BORDER FORSYTHIA
	ILE CRS	ILEX CORNUTA 'CARISSA' / CARISSA CHINESE HOLLY
	ILE NAN	ILEX VOMITORIA 'NANA' / DWARF YAUPON HOLLY
	ILL PAR	ILLICIUM PARVIFLORUM / ANISE
	LOR GRE	LOROPETALUM CHINENSE / PINK LOROPETALUM
	MUH CAP	MUHLENBERGIA CAPILLARIS / PINK MUHLY GRASS
	ROS 392	ROSA X 'MEIGGILI' / PEACH DRIFT® ROSE
SHRUB AREAS		
	LIR BIG	LIRIOPE MUSCARI 'BIG BLUE' / BIG BLUE LILYTURF
	SEA LSC	SEASONAL COLOR / SEASONAL COLOR
GROUND COVERS		
	NEW SOD	NEW SOD / MATCH EXISTING

(2) QOU NUT
(14) LOR GRE
(14) ILE NAN
(9) MUH CAP
(8) ILE NAN
(1) QOU NUT
(63) LIR BIG
(5) MUH CAP
(37) SEA LSC
(24) ROS 392
(2,615 sf) NEW SOD
(11) ILL PAR
(1) QOU NUT
(20) MUH CAP
(163 sf) NEW SOD
(2,669 sf) NEW SOD
(1) QOU NUT
(19) FOR INT
(9) MAG BRK
(6) ILE CRS
(3) ILL PAR
(22) ILE NAN
(16) LOR GRE
(1) LAG SAR
(37) ROS 392
(20) LIR BIG
(1) LAG SAR
(15) LOR GRE
(21) ROS 392
(25) ILE NAN
(16) ILL PAR
(113) LIR BIG
(2) QOU NUT
(25) MUH CAP
(16) ILE NEL
(2,224 sf) NEW SOD
(293 sf) NEW SOD
(14) MUH CAP
(11) LOR GRE
EXISTING TREE TO REMAIN
(14) ILE NAN
(21) ILE NAN
(17) LOR GRE
(106) LIR BIG
(2) ULM PRI
(3) QOU NUT
(15) AZA MRG
(18) ILE CRS
(1) ULM PRI
(11) MUH CAP
(10) LOR GRE
(22) MUH CAP
(15) LOR GRE
(2) ULM PRI
(18) ILE NAN
(45) LIR BIG
(1) ACE BUE
(6) PIN TAE
(2) QUE PHE
(10) PIN TAE
(3) ACE BUE
(6) LAG SAR
(5) NYS CJC
(2) ACE BUE
(2) QUE PHE
(6) PIN TAE
(24,977 sf) NEW SOD
(7) ILE NAN
(74) LIR BIG
(18) MUH CAP
(9) FOR INT
(4) ILE NEL
ADJUST LIMITS OF EXISTING KUDZU AREA AS SHOWN; MINIMUM BUFFER OF 12' BETWEEN EXISTING KUDZU AND NEW PLANTING FOR FUTURE MAINTENANCE
(1) QOU NUT
(1,620 sf) NEW SOD
EXISTING TREE TO REMAIN
(16) ILE NEL
(8) MAG BRK
(2) QOU NUT
(13) JUN EAS
(2) QUE PHE
(10) FOR INT
(11) ILE NE2
(7) AZA MRG
(1) LAG SAR
(7) MAG BRK
EXISTING TREE TO REMAIN
(2) QOU NUT
(9) AZA MRG
(22) ILE NEL
(12) AZA MRG
(1) LAG SAR
(23) ILE NAN
(4) MAG BRK
(11) MUH CAP
(5) ILE NEL
ADJUST LIMITS OF EXISTING KUDZU AREA; MINIMUM BUFFER OF 12' BETWEEN EXISTING KUDZU AND NEW PLANTING FOR FUTURE MAINTENANCE

PLANT SCHEDULE

CODE	QTY	BOTANICAL NAME	COMMON NAME	CAL. / HT.	ROOTBALL	FORM	REMARKS
TREES							
ACE BUE	6	ACER BUERGERIANUM	TRIDENT MAPLE	2.0" CAL.			
ILE NEL	63	ILEX X 'NELLIE R. STEVENS'	NELLIE R. STEVENS HOLLY	5'-6' HT.	7 GAL.		
ILE NE2	11	ILEX X 'NELLIE R. STEVENS'	NELLIE R. STEVENS HOLLY	8-9' HT.	7 GAL.		MIN. 5' WIDTH
JUN EAS	13	JUNIPERUS VIRGINIANA	EASTERN REDCEDAR	8-10' HT.			
LAG SAR	10	LAGERSTROEMIA X 'SARAH'S FAVORITE'	SARAH'S FAVORITE CRAPE MYRTLE	1.0" CAL.		MULTI-TRUNK - 3 STEMS	MULTI-TRUNK, MIN. 1" CAL. PER TRUNK
MAG BRK	28	MAGNOLIA GRANDIFLORA 'BRACKENS BROWN BEAUTY'	BRACKEN'S BEAUTY SOUTHERN MAGNOLIA	12' HT.			
NYS CJC	5	NYSSA SYLVATICA 'MON2'	MAJESTIC® BLACK GUM	4.0" CAL.			
PIN TAE	22	PINUS TAEDA	LOBLOLLY PINE	4'-5' HT.	5 GAL.		
QOU NUT	15	QUERCUS NUTTALLII	NUTTALL OAK	3.0" CAL.			
QUE PHE	6	QUERCUS PHELLOS	WILLOW OAK	4.0" CAL.			
ULM PRI	5	ULMUS AMERICANA 'PRINCETON'	PRINCETON AMERICAN ELM	5.0" CAL.			MINIMUM 8' CLEAR TRUNK

CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	HT.	SPACING	REMARKS
SHRUBS							
AZA MRG	43	AZALEA INDICA 'MRS. G.G. GERBING'	MRS. G.G. GERBING INDICA AZALEA	5 GAL		60" o.c.	
FOR INT	38	FORSYTHIA X INTERMEDIA	BORDER FORSYTHIA	5 GAL		72" o.c.	
ILE CRS	24	ILEX CORNUTA 'CARISSA'	CARISSA CHINESE HOLLY	3 GAL		36" o.c.	
ILE NAN	152	ILEX VOMITORIA 'NANA'	DWARF YAUPON HOLLY	3 GAL		36" o.c.	
ILL PAR	27	ILLICIUM PARVIFLORUM	ANISE	5 GAL		60" o.c.	
LOR GRE	96	LOROPETALUM CHINENSE	PINK LOROPETALUM	3 GAL		48" o.c.	
MUH CAP	135	MUHLENBERGIA CAPILLARIS	PINK MUHLY GRASS	1 GAL		36" o.c.	
ROS 392	82	ROSA X 'MEIGGILI'	PEACH DRIFT® ROSE	1 GAL		24" o.c.	
SHRUB AREAS							
LIR BIG	421	LIRIOPE MUSCARI 'BIG BLUE'	BIG BLUE LILYTURF	1 GAL		18" o.c.	
SEA LSC	37	SEASONAL COLOR	SEASONAL COLOR	4" POT		8" o.c.	

CODE	QTY	BOTANICAL NAME	COMMON NAME	TYPE	SPACING	REMARKS
GROUND COVERS						
NEW SOD	34,561 SF	NEW SOD	MATCH EXISTING	SOD		

NORTH

0' 20' 40' 80'
SCALE: 1 IN = 20 FT

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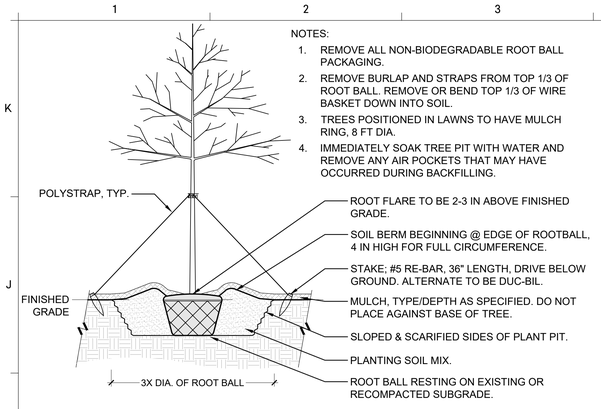
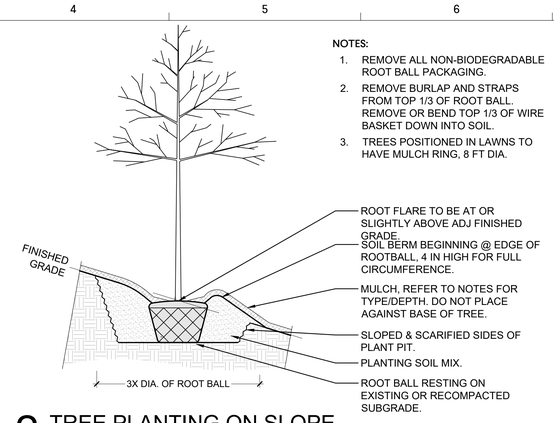
JASPER, GA
LATL240013

GEORGIA REGISTERED LANDSCAPE ARCHITECT No. 1313 MATTHEW MITCHELL

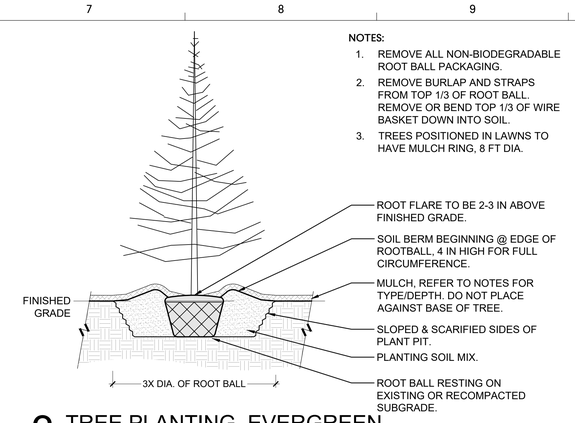
LANDSCAPE PLAN
L3.01



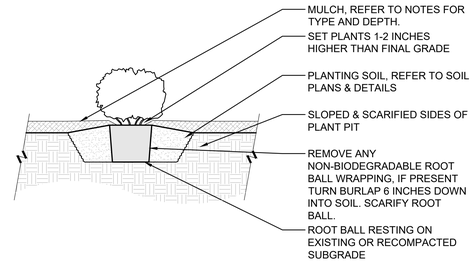
1 TREE PLANTING
3/8" = 1'-0"



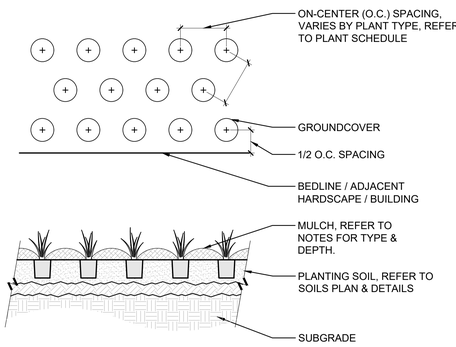
2 TREE PLANTING ON SLOPE
3/8" = 1'-0"



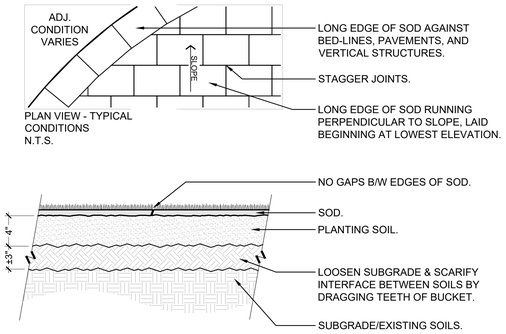
3 TREE PLANTING, EVERGREEN
3/8" = 1'-0"



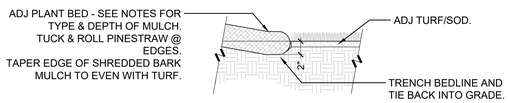
4 SHRUB PLANTING
3/4" = 1'-0"



5 GROUNDCOVER & PERENNIAL PLANTING
3/4" = 1'-0"



6 SOD INSTALLATION
1 1/2" = 1'-0"



7 BEDLINE, TYPICAL
1 1/2" = 1'-0"

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GEORGIA REGISTERED LANDSCAPE ARCHITECT WILLIAM MATTHEW MITCHELL

LANDSCAPE DETAILS

L4.01