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PLUMBING
P001 PLUMBING STANDARDS, SYMBOLS, & ABBREVIATIONS

FIRE PROTECTION
FP001 FIRE PROTECTION STANDARDS, SYMBOLS, & ABBREVIATIONS

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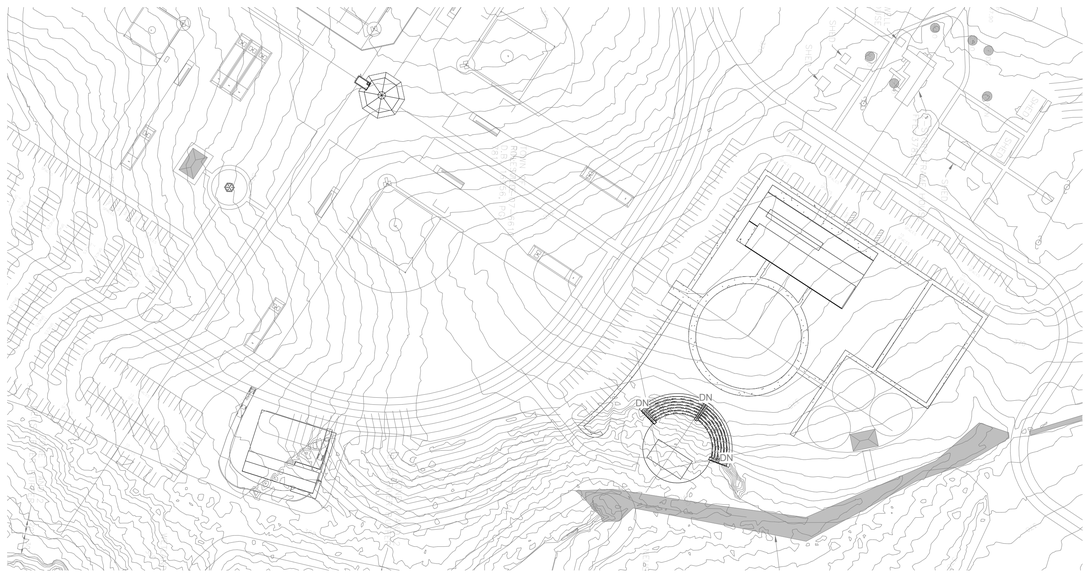

SITE PLAN

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

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REVISIONS

NO.	DATE	DESCRIPTION

PLAN INFORMATION

PROJECT NO.	TORLRPMP
FILENAME	TORLRPMP_CENTRAL_2020
CHECKED BY	MDS
DRAWN BY	EEW
SCALE	SEE VIEW
DATE	Issue Date

SHEET

PROJECT COVER SHEET

G100

GENERAL NOTES

1. THE GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, STANDARD FORM OF THE AMERICAN INSTITUTE OF ARCHITECTS, CURRENT EDITION, SHALL APPLY TO ALL WORK IN THIS CONTRACT EXCEPT AS SPECIFICALLY MODIFIED BELOW AND/OR BY THE AGREEMENT.

2. BY THE USE OF THE DRAWINGS FOR CONSTRUCTION OF THE PROJECT, THE ***(TENANT/OWNER)*** REFRESENTS THAT HE HAS REVIEWED AND APPROVED THE DRAWINGS, AND THAT THE CONSTRUCTION DOCUMENT PHASE OF THE PROJECT IS COMPLETE.

3. BY USING THESE DOCUMENTS TO **(SUBMIT FOR PERMIT/PRICING PURPOSES)** THE GENERAL CONTRACTOR AGREES TO THE FEES AND CONDITIONS SET FORTH IN THESE DOCUMENTS.

4. PER NORTH CAROLINA STATE LAW, THE OWNER OF THE PROPERTY OR GENERAL CONTRACTOR ON THEIR BEHALF MUST HIRE A LIEN AGENT AND SUBMIT A DESIGNATED LIEN AGENT FORM AVAILABLE AT WWW.LIENSNC.COM TO THE PLANS REVIEW DEPARTMENT HAVING JURISDICTION WHEN APPLYING FOR PERMIT. THE PROJECT DESIGNERS (ARCHITECTS, ENGINEERS, SURVEYORS AND LANDSCAPE ARCHITECTS) MUST BE LISTED ON THE LIEN AGENT FORM AS HAVING PERFORMED PRE-PERMIT SERVICES ON THE PROPERTY.

5. BY USE OF THESE DOCUMENTS IN APPLYING FOR A PERMIT, THE BUILDING OWNER OR GENERAL CONTRACTOR ON THEIR BEHALF ACKNOWLEDGES THAT THE ARCHITECT AND DESIGNERS OF RECORD WHO HAVE WORKED ON THE PROJECT ARE ENTITLED TO PRE-EXISTING DUTY, I.E., AGREED UPON COMPENSATION FOR THEIR INSTRUMENTS OF SERVICE.

6. THE ***(BUILDING OWNER/CLIENT/TENANT)*** REQUIRES THE SUBMITTAL OF PARTIAL LIEN WAVERS FROM EACH MAJOR SUBCONTRACTOR FOR THE TOTAL AMOUNT SUBMITTED IN THEIR NAME AND FROM THE GENERAL CONTRACTOR FOR THE TOTAL AMOUNT SUBMITTED ON EACH PAY REQUEST AT THE TIME OF SUBMITTAL.

7. INSURANCE AND BONDING FOR THE PROJECT SHALL BE AS DIRECTED BY AND TO THE SATISFACTION OF THE OWNER AND TENANT. WORK SHALL NOT COMMENCE UNTIL THESE ARE IN PLACE.

8. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY SERVICES DURING THE CONSTRUCTION PROCESS. THESE SERVICES SHALL INCLUDE, BUT NOT BE LIMITED TO: WATER, TOILET FACILITIES, ELECTRICAL POWER, A JOB TELEPHONE AND PROPER VENTILATION.

9. THE GENERAL CONTRACTOR SHALL EXERCISE STRICT DUST CONTAINMENT CONTROL OVER JOB TO PREVENT DIRT OR DUST FROM LEAVING THE JOB SITE/PROJECT LIMITS.

10. THE GENERAL CONTRACTOR SHALL PROPERLY PROTECT THE BUILDING MANAGEMENT'S (AND ANY ADJOINING) PROPERTY OR WORK FROM DAMAGE. ANY DAMAGE TO SAME CAUSED BY HIS WORK OR WORKMEN MUST BE MADE GOOD WITHOUT DELAY.

11. THE GENERAL CONTRACTOR SHALL MAINTAIN A CURRENT AND COMPLETE SET OF CONSTRUCTION DRAWINGS ON SITE DURING ALL PHASES OF CONSTRUCTION FOR USE OF ALL TRADES.

12. ARCHITECTURAL POWER PLANS AND LIGHTING PLANS ARE SHOWN FOR COORDINATION PURPOSES ONLY. DISCREPANCIES BETWEEN THE ENGINEERED DRAWINGS AND THE ARCHITECTURAL DRAWINGS MUST BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO FINAL PRICING/BIDDING.

13. THE GENERAL CONTRACTOR SHALL SEE THAT ALL SUB-CONTRACTORS RECEIVE COMPLETE SETS OF WORKING DRAWINGS AND SHALL ASSUME FULL RESPONSIBILITY FOR COORDINATION OF WORK. THE GENERAL CONTRACTOR SHALL COORDINATE THE REQUIREMENTS OF All DRAWINGS INCLUDING ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND OTHER TRADES, VENDORS, AND SPECIALTIES INVOLVED WITH THE PROJECT. ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND ARCHITECT PRIOR TO ANY WORK.

14. THE GENERAL CONTRACTOR SHALL ALERT SUBCONTRACTORS TO THE DRAWING NOTES PAGE OF THESE CONTRACT DOCUMENTS.

15. IF THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS UNCLEAR, THE GENERAL CONTRACTOR SHALL ASK THE ARCHITECT FOR CLARIFICATION IN THE FORM OF AN RFI PRIOR TO COMMENCEMENT OF WORK OR PRICING. THE ARCHITECT SHALL RESPOND IN WRITING TO THE APPROPRIATE PARTIES.

16. THE GENERAL CONTRACTOR SHALL FIELD VERIFY DIMENSIONS ON THE DRAWINGS.

17. REFER ALL QUESTIONS REGARDING DIMENSIONS TO ARCHITECT IMMEDIATELY. DO NOT SCALE DRAWINGS. LOCATIONS FOR ALL PARTITIONS, WALLS, CEILINGS, ETC., WILL BE DETERMINED BY DIMENSIONS ON THE DRAWINGS.

18. LARGE SCALE DRAWINGS/DETAILS TAKE PRECEDENT OVER SMALL SCALE DRAWINGS.

19. THE CONTRACTOR SHALL APPLY FOR AND OBTAIN ALL PERMITS, INSPECTIONS, PROVISIONS, ETC., NECESSARY FOR CONSTRUCTION AND CERTIFICATE OF OCCUPANCY.

20. ALL WORK TO BE PERFORMED IN ACCORDANCE WITH ALL NORTH CAROLINA STATE BUILDING CODES, ORDINANCES, AND REFERENCES.

21. WHERE MORE THAN ONE REGULATION APPLIES, THE MORE STRICT REGULATION SHALL GOVERN.

22. THE GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL FIRE EXTINGUISHERS AS REQUIRED BY FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND BY LOCAL FIRE DEPARTMENT REGULATIONS. FINAL LOCATIONS ARE FURTHER SUBJECT TO FIRE MARSHAL'S FIELD REVIEW AT THE FINAL INSPECTION.

23. ROOF WORK (PATCHING, FLASHING, CURBS, SKYLIGHTS, PENETRATION, ETC.) SHALL BE DONE IN ACCORDANCE WITH MANUFACTURERS' REQUIREMENTS AND IN COMPLIANCE WITH THE ROOF WARRANTY. IF A CONFLICT EXISTS, IT SHALL BE BROUGHT TO THE OWNER AND ARCHITECT'S ATTENTION PRIOR TO COMMENCEMENT OF WORK AND FINAL PRICING.

24. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY SHORING OR BRACING FOR ALL STRUCTURAL ELEMENTS AS REQUIRED, WHETHER INDICATED ON THE DRAWINGS OR NOT, UNTIL NEW STRUCTURAL MEMBERS ARE PERMANENTLY INSTALLED. IF THE CONTRACTOR IS UNSURE WHETHER OR NOT TO PROVIDE TEMPORARY SHORING AND BRACING, HE SHALL ASK THE ARCHITECT OR STRUCTURAL ENGINEER, IN WRITING, PRIOR TO COMMENCEMENT OF WORK AND FINAL PRICING.

25. THE CONTRACTOR GUARANTEES ALL MATERIALS AND EQUIPMENT PROVIDED AND INSTALLED TO BE IN GOOD WORKING CONDITION AND SHALL WARRANTY ALL WORK FOR A MINIMUM OF ONE YEAR AFTER SUBSTANTIAL COMPLETION. THE CONTRACTOR SHALL PROVIDE OWNER WITH ALL WARRANTY PERTINENT DOCUMENTS.

26. EXCEPT AS OTHERWISE INDICATED, CONTRACTOR TO PROVIDE AND PAY FOR ALL MATERIALS, LABOR, SERVICES, FEES, ETC., NECESSARY TO ACCOMPLISH ENTIRELY THE WORK SET FORTH IN THESE CONTRACT DOCUMENTS.

27. UNLESS OTHERWISE SPECIFIED, ALL MATERIALS SHALL BE NEW AND BOTH MATERIALS AND WORKMANSHIP SHALL BE OF QUALITY WITH THAT EXPECTED FOR A CLASS 'A' INSTALLATION.

28. WHENEVER THE TERM "OR EQUAL" IS USED, IT SHALL MEAN EQUAL PRODUCT AS REVIEWED FOR DESIGN INTENT AND QUALITY, IN WRITING, BY THE (TENANT/ARCHITECT/BUILDING OWNER) OR MEP ENGINEER.

29. ALL SUBSTITUTIONS, I.E. "EQUALS", MUST BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO SUBSTITUTION BEING MADE AND PRIOR TO FINAL PRICING/BID.

30. FINAL CLEANING AT SUBSTANTIAL COMPLETION SHALL INCLUDE, BUT NOT BE LIMITED TO: CLEANING OF ALL FINISHED WOOD AND GLASS SURFACES, DUSTING OF ALL FINISHED SURFACES AND WINDOW TREATMENTS, CLEANING OF ALL FLOORS, VACUUMING OF ALL CARPETED AREAS, AND THE REMOVAL OF ANY SPOTS, STAINS, SPILLS, ETC., INCURRED ON ANY SURFACE DURING CONSTRUCTION.

31. MANUFACTURER'S NAME, TRADEMARK, LOGOS, ETC., SHALL NOT BE VISIBLE TO THE PUBLIC.

32. A CERTIFICATE OF OCCUPANCY IS A PREREQUISITE, BUT NOT A DETERMINANT, FOR THE ARCHITECT'S LETTER OF SUBSTANTIAL COMPLETION. GC SHALL DELIVER INDIVIDUAL COPIES OF THE CERTIFICATE OF OCCUPANCY TO THE OWNER, TENANT, AND ARCHITECT.

PROJECT NOTES

1. ALL REQUIRED EXITS FROM OCCUPIED SPACES, WAYS OF APPROACH THERETO, AND WAYS OF TRAVEL FROM THE EXIT INTO THE STREET SHALL CONTINUOUSLY BE MAINTAINED FREE FROM ALL OBSTRUCTIONS AND IMPEDIMENTS FOR UNOBSTRUCTED EGRESS IN THE CASE OF FIRE OR OTHER EMERGENCY. ALL EXIT WAYS SHALL COMPLY WITH THE ADA AND NCSBC.

2. THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS ARE TO MAINTAIN 1 SET OF CONSTRUCTION DRAWINGS AT THE SITE, MARKED UP WITH 'AS-BUILT' DEVIATIONS OR CLARIFICATIONS TO THE ORIGINAL DOCUMENTS. THESE ARE TO BE SUBMITTED TO THE ARCHITECT WITH THE FINAL REQUEST FOR PAYMENT.

3. DURING THE ENTIRE PERIOD OF CONSTRUCTION, CONTRACTOR TO MAINTAIN ALL EXIT PATHS, LIFE SAFETY SYSTEMS, INCLUDING, BUT NOT LIMITED TO, EXIT LIGHTS, SMOKE DETECTORS, EMERGENCY LIGHTS, FIRE EXTINGUISHERS, FIRE ALARM DEVICES, ETC., IN EXISTING OCCUPIED SPACES.

4. FIRE EXTINGUISHERS SHALL BE IN ***(WALL MOUNTED/SEMI-RECESSED/FULLY RECESSED)*** TYPE CABINETS. THE GENERAL CONTRACTOR SHALL PROVIDE AN ALLOWANCE FOR **(#)** FIRE EXTINGUISHERS FOR THE PROJECT. THE GENERAL CONTRACTOR SHALL CONTACT THE LOCAL FIRE MARSHAL TO ESTABLISH TYPE, QUANTITY, AND LOCATIONS.

5. THE CONTRACTOR MUST MAINTAIN ALL COMMON AREAS TO BE FREE OF DEBRIS, DUST, AND CONSTRUCTION MATERIALS.

6. PATCH AND REPAIR ALL DISTURBED SURFACES TO MATCH EXISTING.

7. GC SHALL OBTAIN GEOTECH ENGINEERING AND CONCRETE COMPRESSIVE STRENGTH AND SLUMP TESTS FOR ALL STRUCTURAL CONCRETE AND AS FURTHER REQUIRED BY STRUCTURAL ENGINEER.

8. ALL NECESSARY WOOD BLOCKING/ROUNDS, ETC., MUST BE SUPPLIED AS FIREPROOFED OR FIRE RETARDANT TREATED ELEMENTS. CONTRACTOR SHALL COORDINATE SETTING/PLACEMENT OF THESE ELEMENTS AS REQUIRED BY LOCAL CODE, BUILDING, OR SURROUNDING CONSTRUCTION CONDITIONS.

9. THE GENERAL CONTRACTOR SHALL ENSURE THAT AN APPROVED MEANS OF ACCESS IS PROVIDED AT EACH FIRE OR COMBINATION FIRE AND SMOKE DAMPER FOR INSPECTION AND MAINTENANCE.

10. OPENINGS IN FIRE RATED WALLS, FLOORS, OR CEILINGS SHALL HAVE FIRE DAMPERS OR PENETRATION PROTECTION AS REQUIRED BY LOCAL BUILDING CODES.

11. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY INSTALLATION CLEARANCE REQUIREMENTS FOR EQUIPMENT INSTALLED BY THE CONTRACTOR AND EQUIPMENT IDENTIFIED TO BE INSTALLED BY THE TENANT/OWNER. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY IF ANY CONDITIONS EXIST THAT PRECLUDE INSTALLATION.

12. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO BE ACQUAINTED WITH THE DIMENSIONS OF ALL EQUIPMENT INCLUDED IN THIS PROJECT SO THAT PREPARATIONS ARE MADE BY THE GENERAL CONTRACTOR TO PROVIDE ENTRY INTO THE LEASE SPACE WITH SUFFICIENT CLEARANCE AND TO ENSURE THAT ADEQUATE FLOOR SPACE IS AVAILABLE.

13. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO VERIFY THAT ANY MECHANICAL AND ELECTRICAL EQUIPMENT SUBMITTED FOR REVIEW AS "EQUAL" TO THE EQUIPMENT SPECIFIED SHALL MEET CLEARANCE REQUIREMENTS FOR MAINTENANCE AND INSTALLATION AND AS REQUIRED BY CODE. THE CONTRACTOR MAY PROVIDE ALTERNATE CONFIGURATIONS TO THE ARCHITECT AND MEP ENGINEERS MEETING THOSE REQUIREMENTS FOR REVIEW.

14. GENERAL CONTRACTOR SHALL LABEL RATED VERTICAL ASSEMBLIES. LABELING WILL BE IN AN ACCESSIBLE BUT CONCEALED AREA (SUCH AS ABOVE CEILING) WITH STENCILED LETTERS INDICATING THE APPROPRIATE HOURLY RATING AND THE FOLLOWING: "FIRE BARRIER (OR SMOKE AND FIRE BARRIER) - PROTECT ALL OPENINGS".

15. BUILDING SHELL CONSTRUCTION WAS INCOMPLETE DURING THE DESIGN OF THIS PROJECT. CONTRACTORS TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION. COORDINATE ALL DISCREPANCIES WITH BUILDING OWNER, TENANT, AND ARCHITECT.

16. THE GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES OR OMISSIONS BETWEEN THE DRAWINGS, THESE NOTES, AND FIELD CONDITIONS BEFORE COMMENCING WITH ANY WORK AND SHALL REQUEST CLARIFICATION PRIOR TO FINAL BIDDING OR PRICING.

17. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH BUILDING MANAGEMENT REGARDING DELIVERIES, ELEVATOR USE, UTILITY DISRUPTIONS, ETC.

18. THE CONTRACTOR SHALL COORDINATE ELEVATOR PROTECTION WITH BUILDING MANAGEMENT.

21. OWNER AND ARCHITECT SHALL BE NOTIFIED IMMEDIATELY OF ANY REVISIONS TO BE INCORPORATED IN CONSTRUCTION DOCUMENTS WHICH ARE REQUIRED FOR COMPLIANCE WITH RULES/REGULATIONS OF ANY AND ALL LOCAL GOVERNING AUTHORITIES HAVING JURISDICTION OVER PROJECT.

22. THE CONTRACTOR TO COORDINATE DELIVERY OF ALL SUPPLIES, MATERIALS, DEVICES, ETC. NEEDED FOR THE CONSTRUCTION OF THIS PROJECT. NOTIFY THE ARCHITECT IMMEDIATELY OF ANY AVAILABILITY PROBLEMS THAT MAY DELAY THE PROJECT COMPLETION.

23. PRIOR TO THE FINAL PUNCH LIST SITE VISIT BY THE TENANT AND ARCHITECT, THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHOULD PRODUCE A SINGLE, COMPILED PUNCH LIST OF ALL UNCOMPLETED WORK OR TOUCH UP WORK LEFT TO BE DONE UNDER THE CONTRACT. THIS LIST WILL BE REVIEWED AT THIS SITE VISIT AND SHALL BECOME PART OF THE FINAL PUNCH LIST PREPARED BY THE TENANT AND ARCHITECT.

24. THE GC SHALL CONTRACT WITH A SPRINKLER CONTRACTOR FOR THE ***(INSTALLATION/EXPANSION/RECONFIGURATION)*** OF A BUILDING SPRINKLER SYSTEM TO BE NCSBC COMPLIANT. COORDINATE SUBMITTAL REQUIREMENTS WITH LOCAL CODE OFFICIALS. THE SPRINKLER CONTRACTOR WILL ALSO BE REQUIRED TO SUBMIT DESIGN DRAWINGS WITH THE PERMIT DRAWINGS. COORDINATE WITH THE ARCHITECT AND ENGINEERS AS WELL AS ANY ADDITIONAL AHJ SUBMITTAL REQUIREMENTS.

ACCESSIBILITY NOTES

1. THRESHOLDS MUST MEET NCSBC AND ADA REQUIREMENTS.

2. DOOR CLOSERS SHALL BE CERTIFIED BY THE MANUFACTURER TO MEET THE REQUIREMENTS OF THE ADA AND NCSBC. INSTALLATION AND ADJUSTMENTS MUST ALSO COMPLY WITH OPERATIONAL CRITERIA. FOR EXAMPLE, THE FORCE TO OPEN INTERIOR DOORS MUST NOT EXCEED 5 POUNDS AND THE FORCE TO OPEN EXTERIOR DOORS MUST NOT EXCEED 8-1/2 POUNDS.

3. DOOR CLOSERS SHALL MEET THE NCSBC REQUIREMENTS FOR SWEEP PERIOD.

4. ALL CONTROLS, DEVICES, HANDLES, LATCHES, THRESHOLDS, TRANSITIONS, AND RAMPS SHALL COMPLY WITH THE NCSBC & THE AMERICANS WITH DISABILITIES ACT. COORDINATE ANY DISCREPANCIES WITH TENANT, BUILDING OWNER, AND ARCHITECT.

5. INSTALLED FLOOR FINISHES SHALL COMPLY WITH THE NCSBC AND ADA FOR ACCESSIBLE SURFACES INCLUDING, BUT NOT LIMITED TO: ATTACHMENT SECURITY, CARPET PILE HEIGHT AND TYPE, AND SLIP RESISTANT CHARACTERISTICS.

ACCESSIBILITY NOTES (CONT.)

6. GC SHALL CONTRACT WITH SIGNAGE SUPPLIER FOR ADA SIGNAGE. ALL SIGNAGE MUST COMPLY WITH NCSBC AND ADA STANDARDS FOR VISIBILITY AND COMMUNICATION. THE SUPPLIER MUST CERTIFY THIS COMPLIANCE.

7. THE CABINET SUPPLIER WILL PROVIDE BREAK ROOM SINK THAT COMPLIES WITH THE NCSBC AND ADA FOR ACCESSIBILITY, CLEARANCES, AND COUNTER HEIGHT REQUIREMENTS. COORDINATE WITH BREAK ROOM SINK SUPPLIER TO MAINTAIN UNDER COUNTER CLEARANCES.

8. GRAB BARS SHALL BE 1-1/4" TO 1-1/2" IN DIAMETER WITH 1-1/2" SPACE BETWEEN GRAB BAR AND ADJACENT WALL.

FINISHES NOTES

1. IT IS THE INTENT OF THE DRAWINGS THAT ALL EXPOSED SURFACES RECEIVE FINISHES AS INDICATED ON DRAWINGS AND SPECIFICATIONS UNLESS SPECIFICALLY NOTED. OTHERWISE ANY SURFACE THAT DOES NOT HAVE A SPECIFIC FINISH NOTED OR IS NOTED "TO REMAIN UNFINISHED" SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND FINISHED PER THE ARCHITECT'S INSTRUCTIONS.

2. ALL FINISHES TO BE INSTALLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS.

3. COORDINATE ALL FINISH COLORS AND STYLES WITH ***(BUILDING OWNER/TENANT/ARCHITECT).***

4. GENERAL CONTRACTOR SHALL PROVIDE A 5% (OR AGREED QUANTITY) ATTIC STOCK OF FINISH MATERIALS FOR FUTURE REPAIRS. ATTIC STOCK SHALL BE FROM SAME RUN AS FINISHES INSTALLED TO ENSURE FINISH MATCH.

5. ALL DRYWALL CONSTRUCTION SHALL BE PROPERLY PREPARED TO RECEIVE SPECIFIED FINISH MATERIALS. DRYWALL JOINTS SHALL BE TAPED/SPACKLED IN CONVENTIONAL MANNER. NO HORIZONTAL DRYWALL JOINTS SHALL BE ACCEPTED. BUTTED, UNTAPED DRYWALL JOINTS ARE NOT ACCEPTABLE. FULL HEIGHT GYPSUM BOARD SHEETS SHALL BE USED THROUGHOUT FOR FULL HEIGHT CONSTRUCTION. TAPED JOINTS, CORNERS, "DIMPLES," OR SCREW HEADS SHALL BE SPACKLED SMOOTH AND LEVEL WITH ADJACENT GYPSUM BOARD SURFACE.

6. ALL EXISTING HOLES/CRACKS IN SLAB AND THOSE RESULTING FROM THE CONSTRUCTION PROCESS SHALL BE FILLED/REPAIRED AND THE SURFACE PATCHED SMOOTH AND LEVEL WITH ADJACENT FLOOR SURFACE.

7. SPACES BEING SURFACED SHALL BE CLOSED TO TRAFFIC AND OTHER WORK DURING THE SURFACING PROCESS.

8. PROVIDE LEVEL IV FINISH SURFACE AND PRIMER AT GYPSUM BOARD WALLS TO RECEIVE FLAT FINISHES OR CONCEALING FINISHES SUCH AS WALL COVERINGS, ETC.

9. UPON COMPLETION, THE CONTRACTOR SHALL CLEAN ALL WORK AND SHALL REMOVE ALL SPOTS OF ADHESIVE, SURFACE STAINS, AND ALL SCRAPS. CARTONS AND CONTAINERS SHALL BE REMOVED FROM THE BUILDING SITE.

10. THE GENERAL CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY AND ALL CEILING TILES WHICH ARE REMOVED TO FACILITATE ABOVE CEILING SYSTEM INSTALLATIONS AND REPAIRS.

11. WALLS SHALL INCLUDE SURFACES FROM FLOOR TO CEILING INCLUDING PILASTERS, FASCIAS, JAMBS, BUCKS, REVEALS, RETURNS, BULKHEADS, AND ALL VERTICAL SURFACES NOT INCLUDED IN CEILING.

12. ALL WALLS AND CEILINGS SHALL BE PROPERLY PREPARED, SPACKLED, SANDED, ETC., TO PROVIDE A SMOOTH FINISH AND SURFACE READY FOR PRIME AND PAINT.

13. ALL EXISTING LOOSE PAINT SHALL BE REMOVED AND SPACKLED.

14. SOUND INSULATED WALLS TO HAVE SOUND INSULATION BETWEEN STUDS FOR THE FULL HEIGHT OF THE WALL.

15. THE CONTRACTOR SHALL EXAMINE ALL AREAS OF CONSTRUCTION AFTER COMPLETION OF WORK BY ALL TRADES (INCLUDING TELEPHONE INSTALLATION, FLOORING, ETC.) AND SHALL INDICATE ALL NECESSARY 'TOUCH-UP' PAINTING AND/OR PATCHING.

16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL LOCAL VOC (VOLATILE ORGANIC COMPOUNDS) REGULATIONS FOR PRIMERS, PAINTS, SOLVENTS, AND ADHESIVES.

THESE NOTES MUST BE COORDINATED WITH THE SPECIFIC PROJECT

17. ALL FINISHES, SPECIAL PRODUCTS, AND SPECIAL ASSEMBLIES ARE SUBJECT TO SUBMITTAL AND SHOP DRAWING REVIEW. SHOP DRAWINGS AND SUBMITTALS SHALL NOT BE WAIVED UNLESS WRITTEN PERMISSION TO DO SO IS GIVEN BY THE ARCHITECT.

18. ITEMS PROVIDED MATCHING THE SPECIFICATIONS ARE NOT REQUIRED TO BE SUBMITTED.

19. THE CONTRACTOR SHALL SUBMIT COLOR AND MATERIAL RECORD SAMPLES FOR APPROVAL.

20. PROVIDE LEVEL V FINISH SURFACE AT LABORATORIES, CLEAN SPACES, AND AREAS TO RECEIVE GLOSS PAINT.

21. FINISH/STAIN SAMPLES SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO FABRICATION. ARCHITECT WILL APPROVE FINISHED STAIN SAMPLES PRIOR TO FINAL SEALING COAT.

22. CARPET SUPPLIER/MANUFACTURER TO VERIFY CONSISTENCY IN SPECIFICATION NAME AND NUMBER OF THE SPECIFIED CARPET; NOTIFY TENANT AND ARCHITECT OF ANY DISCREPANCIES PRIOR TO ORDERING.

23. CARPET, VINYL COMPOSITE FLOOR TILE (VCT), CERAMIC TILE, RUBBER BASE, ACOUSTICAL CEILING TILE, AND VINYL WALL COVERING MUST BE BUILDING STANDARD GRADE. COORDINATE COLORS AND PATTERNS WITH TENANT, BUILDING OWNER, AND ARCHITECT.

25. CONCRETE SLABS ARE REQUIRED TO BE PATCHED SMOOTH AND PREPARED FOR THE INSTALLATION OF NEW FLOORING. MOISTURE VAPOR EMISSION SHALL MEET MANUFACTURER'S STANDARDS PRIOR TO INSTALLATION OF NEW FLOORING. CONCRETE SHALL BE TESTED AND BROUGHT INTO ACCORDANCE WITH FLOOR FINISH MANUFACTURER'S APPROVED METHODS OF SUBSURFACE PREPARATION. AT A MINIMUM ASTM 1869 ANHYDROUS CALCIUM CHLORIDE TESTING AND ASTM F2170 CONCRETE MOISTURE TESTING SHALL APPLY; ADDITIONAL TESTING REQUIREMENTS MAY APPLY. INSTALLED FLOORING SHALL BE ON A FLOATED CONCRETE FINISH OTHERWISE PREPARED TO ESTABLISH AND MAINTAIN THE FLOORING PRODUCT WARRANTY.

24. AREAS WITH NO CEILING SPECIFIED TO HAVE EXPOSED STRUCTURE.

25. AREAS WITH NO CEILING SPECIFIED TO HAVE EXPOSED STRUCTURE PAINTED WHITE.

26. CEILINGS ARE UPGRADED FROM BUILDING STANDARD TO 2'X 2' ACOUSTICAL TILE AT 9'-0" AFF.

27. MODULAR FURNITURE TO BE PROVIDED AND INSTALLED BY TENANT.

28. CEILINGS ARE BUILDING STANDARD 2'X 4' ACOUSTICAL TILE AT 9'-0" AFF.

29. EXISTING CEILING IS PART OF A 1 HOUR RATED ASSEMBLY. ALL NEW GRID PARTS, TILES, LIGHTS DIFFUSERS, ETC., ARE TO BE LABELED OR PROTECTED AS PART OF THIS ASSEMBLY. ALL DISTURBED ELEMENTS ARE TO BE REPAIRED OR REPLACED AS ORIGINALLY INTENDED BY THE ORIGINAL ASSEMBLY.

30. ALL INTERIOR WALLS ARE NOMINAL 5" THICK DEMOUNTABLE PARTITIONS WITH/ PRE-FINISHED VINYL WALL COVERING AND RUBBER BASE.

31. ALL INTERIOR WALLS ARE NOMINAL 5" THICK 3-5/8" METAL STUD PARTITIONS WITH PAINTED 5/8" GYPSUM BOARD TO CEILING WITH RUBBER COVE BASE UNLESS NOTED OTHERWISE.

33. FLOORS ARE CONCRETE WITH BUILDING STANDARD CARPET UNLESS OTHERWISE NOTED.

34. WAREHOUSE TO HAVE SEALED CONCRETE FLOOR.

35. ALL TOILETS TO HAVE VINYL TILE FLOOR, RUBBER COVE BASE, WITH PAINTED GYPSUM BOARD WALLS.

36. PROVIDE 18" CARPET ACCENT BORDER IN MAIN CONFERENCE ROOM.

37. ALL TOILETS TO HAVE GWB WALLS WITH VINYL WALL COVERING AND CERAMIC TILE FLOOR AND BASE.

FINISHES NOTES (CONT.)

38. BREAK ROOM AND STORAGE ROOMS TO HAVE VCT FLOOR COVERING.

39. PROVIDE WATER LINE WITH SHUT OFF VALVE AND VACUUM BREAKER FOR REFRIGERATOR.

40. PROVIDE WATER LINE WITH SHUT OFF VALVE AND VACUUM BREAKER FOR COFFEE MAKER.

41. PROVIDE (2) 8" CONCRETE FILLED STEEL PIPE BOLLARDS FOR PROTECTION OF NEW EXTERIOR STEEL STAIRS. BOLLARDS MUST BE 5'-0" HIGH MINIMUM.

42. ROOMS RECEIVING EPOXY PAINT SHALL RECEIVE EPOXY TRIM PAINT AT HOLLOW METAL DOORS AND FRAMES.

43. FINISHES SELECTED ARE:
CARPET: LEES COMMERCIAL CARPET OR APPROVED EQUAL
CARPET: SHAW
COVE BASE: ROPPE, ARMSTRONG OR APPROVED EQUAL
PAINT: SHERWIN WILLIAMS OR APPROVED EQUAL
VINYL TILE: ARMSTRONG STANDARD EXCELON
CEILING TILE: ARMSTRONG, US GYPSUM OR APPROVED EQUAL.
CABINETRY: CUSTOM BUILT OAK FINISH WITH PLASTIC LAMINATE TOPS
CABINETRY: PREFABRICATED OAK FINISH WITH PLASTIC LAMINATE TOPS.
CABINETRY: PREFABRICATED PLASTIC LAMINATE CABINETS AND TOPS.

DOOR, WINDOW, AND FRAME NOTES

1. GC TO VERIFY ALL DOOR HARDWARE REQUIREMENTS WITH TENANT PRIOR TO ORDERING HARDWARE.

2. GC TO ***(COORDINATE/VERIFY)*** **DOOR ASSEMBLIES WITH*(ARCHITECT/LANDLORD/CLIENT/TENANT)*** PRIOR TO FABRICATION, ORDERING, OR INSTALLATION. DOOR ASSEMBLIES INCLUDE, BUT ARE NOT LIMITED TO: FRAME STYLES, HARDWARE SELECTIONS, KEYING, DOOR MATERIAL OR SPECIES, VENEER CUT, FINISH, COLOR, STAIN, LUSTER, AND SPECIAL APPURTENCES. DEVIATIONS FROM APPROVED ASSEMBLIES SHALL BE BY WRITTEN APPROVAL.

3. CONTRACTOR TO COORDINATE KEYING REQUIREMENTS WITH TENANT PRIOR TO ORDERING CYLINDERS FOR LOCKSETS. KEYING INFORMATION SHALL INCLUDE HIERARCHY OF SECURITY AND NUMBER OF MASTER KEYS.

4. ALL LOCKSETS SHALL BE CODED AND/OR KEYED IN ACCORDANCE WITH THE BUILDING REQUIREMENTS. CODES AND/OR KEYS ARE TO BE DELIVERED TO TENANT PROPERLY TESTED AND/OR TAGGED. THE NUMBER OF MASTER AND PASSKEYS SHALL BE COORDINATED WITH BUILDING MANAGEMENT.

5. PATH OF EGRESS DOORS (THOSE TO STAIRS, SUITE ENTRY, CORRIDOR, AND EXTERIOR OR SIMILAR) SHALL RECEIVE ANSI GRADE ONE HARDWARE. ANSI GRADE TWO OR BETTER SHALL BE PERMITTED AT OTHER DOOR LOCATIONS.

6. PROVIDE 1-1/2 PAIR BUTT HINGES MINIMUM PER 7'-0" HIGH DOOR. PROVIDE 2 PAIR BUTT HINGES MINIMUM PER DOOR GREATER THAN 7'-0" IN HEIGHT.

7. PROVIDE THREE SILENCERS ON ALL NEW DOORS (TYPICAL) UNLESS WEATHER-STRIPPING IS PROVIDED.

8. PROVIDE DOORSTOPS ON ALL DOORS FOR PROTECTION OF ADJACENT SURFACES. PROVIDE THE PROPER TYPE AS NEEDED BY INDIVIDUAL DOOR LOCATION.

THESE FINISH NOTES MUST BE COORDINATED WITH THE SPECIFIC PROJECT

9. THE CONTRACTOR SHALL PROVIDE BUILDING STANDARD BLINDS ON ALL EXTERIOR WINDOWS.

10. THE CONTRACTOR SHALL PROVIDE BUILDING STANDARD BLINDS ON ALL INTERIOR WINDOWS.

11. FLOOR TO CEILING GLASS TO BE 1/4" THICK CLEAR TEMPERED GLASS IN ***(HM) (ALUM)*** FRAMES TO MATCH DOORFRAMES.

12. SIDELIGHTS TO BE 1/4" THICK CLEAR TEMPERED GLASS IN ***(HM) (ALUM)*** FRAMES.

13. INTERIOR WINDOWS TO BE 1/4" THICK CLEAR GLASS WITH 3'-4" SILL HEIGHT AND 7'-0" HEAD HEIGHT IN ***(HM) (ALUM)*** FRAMES UNLESS NOTED OTHERWISE.

14. VERIFY FUNCTION OF ALL EXISTING DOORS. REPAIR OR REPLACE HINGES, CLOSERS, LOCK, HANDLES, WEATHER-STRIPPING, ETC., AS NEEDED AND ADJUST DOOR TO LATCH AND FUNCTION PROPERLY.

15. VERIFY FUNCTION OF EXISTING OVERHEAD DOORS. REPAIR OR REPLACE TRACKS, ROLLERS, HINGES, OPERATORS, ETC. LUBRICATE ALL MOVING PARTS. VERIFY THAT OVERHEAD DOOR LOCKING DEVICES ARE FUNCTIONING AND SECURE.

16. TOILET DOORS TO HAVE PRIVACY LOCK SETS.

17. DOORSTOPS AT LABORATORY DOORS SHALL BE THE OVERHEAD TYPE.

18. CONFERENCE ROOMS TO HAVE PASSAGE LOCK SETS.

19. NEW EXTERIOR DOORS AND HARDWARE WILL MATCH EXISTING EXTERIOR DOORS UNLESS NOTED OTHERWISE.

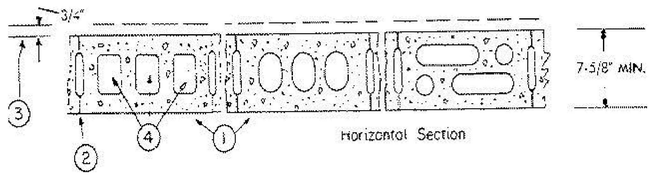
20. TOILET DOORS WILL HAVE PUSH, PULL, & KICK PLATES WITH CLOSERS.

21. PRESIDENT AND VICE PRESIDENT OFFICES, TELEPHONE/ELEC. ROOM, AND STORAGE ROOM TO HAVE KEYED LOCK SETS.

22. ALL INTERIOR DOORS WILL BE 3'-0" X 7'-0" SOLID CORE WOOD DOORS TO MATCH EXISTING. PROVIDE 3 SILENCERS ON ALL DOORS.

23. ALL INTERIOR DOORS WILL BE 3'-0" X 7'-0" SOLID CORE WOOD UNLESS OTHERWISE NOTED. PROVIDE 3 SILENCERS ON

Design No. U905
September 30, 2010
Bearing Wall Rating — 2 HR.
Nonbearing Wall Rating — 2 HR
Load Restricted for Canadian Applications — See Guide BXUV7



1. **Concrete Blocks* —** Various designs. Classification D-2 (2 hr).
See **Concrete Blocks** category for list of eligible manufacturers.

2. **Mortar —** Blocks laid in full bed of mortar, nom. 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume). Vertical joints staggered.

3. **Portland Cement Stucco or Gypsum Plaster —** Add 1/2 hr to classification if used. Where combustible members are framed in wall, plaster or stucco must be applied on the face opposite framing to achieve a max. Classification of 1-1/2 hr. Attached to concrete blocks (Item 1).

4. **Loose Masonry Fill —** If all core spaces are filled with loose dry expanded slag, expanded clay or shale (Rotary Kiln Process), water repellant vermiculite masonry fill insulation, or silicone treated perlite loose fill insulation add 2 hr to classification.

5. **Foamed Plastic* —** (Optional-Not Shown) — 1-1/2 in. thick max, 4 ft wide sheathing attached to concrete blocks (Item 1).
THE DOW CHEMICAL CO — Type Thermax Sheathing, Thermax Light Duty Insulation, Thermax Heavy Duty Insulation, Thermax Metal Building Board, Thermax White Finish Insulation, Thermax ci Exterior Insulation, Thermax IH Insulation, Thermax Plus Liner Panel and Thermax Heavy Duty Plus (HDP)

*Bearing the UL Classification Mark

UL DETAILS

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PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

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REVISIONS

NO.	DATE	DESCRIPTION

PLAN INFORMATION

PROJECT NO.	TORLRPMP
FILENAME	TORLRPMP_CENTRAL_2020
CHECKED BY	MDS
DRAWN BY	EEW
SCALE	SEE VIEW
DATE	Issue Date

SHEET

UL ASSEMBLIES

G102

2018 APPENDIX B BUILDING CODE SUMMARY

FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2 FAMILY DWELLINGS AND TOWNHOUSES)
(Reproduce the following data on the building plans sheet 1 or 2)

Name of Project: FRAZIER FARM PARK
Address: 11624 Louisburg Road, Wake Forest, North Carolina 27587
Proposed Use: --
Owner or Authorized Agent: Town of Rolesville
Phone: 919.556.3506
Email: jg.ferguson@rolesville.nc.gov
Owned By: [X] City/County [ ] Private [ ] State
Code Enforcement Jurisdiction: [ ] City _____ [X] County _____ [ ] State

Contact:

DESIGNER	FIRM	NAME	LICENSE	PHONE	E-MAIL
Architectural:	Integrated Design	Michael D. Sutton	9953	919.832.6658	michael.sutton@id-aep.com
Civil:	McAdams Company		--	919.361.5000	
Electrical:	Stanford White	Matt Johnson	00000	919.832.8118	matt.johnson@salasobrien.com
Fire Alarm:	--		--	--	--
Plumbing:	Stanford White	Matt Johnson	00000	919.832.8118	
Mechanical:	Stanford White	Matt Johnson	00000	919.832.8118	
Sprinkler:	N/A	N/A	N/A	N/A	N/A
Standpipe:	N/A	N/A	N/A	N/A	N/A
Structural:	Scalene Design	Robert Macia, PA	26690	919.825.0295	rmacia@scalene-design.com
Precast:	N/A	N/A	N/A	N/A	N/A
Trusses:	N/A	N/A	N/A	N/A	N/A
Retaining:	N/A	N/A	N/A	N/A	N/A
Walls >5':	--	--	--	--	--
Other:	Sports field consultant	Dan Dodd	0000	803.981.4330	Dan@Fitfields.com

"Other" should include firms and individuals such as truss, pre-engineered, interior designers, etc.

2018 NC Building Code: [X] New Building [ ] Addition [ ] Prescriptive [ ] Repair [ ] Chapter 14 [ ] Shell/Core [ ] Phased Construction - Shell Core [ ] Alteration Level I [ ] Alteration Level II [ ] Alteration Level III [ ] 1st Time Interior Completions [ ] Historic Property [ ] Change of Use

2018 NC Existing Building Code: (check all that apply)

Constructed: (date)_____
Renovated: (date) _____
_____
_____
_____

Current Occupancy(s): (Ch.3):_____
Proposed Occupancy(s): (Ch.3): A-3, B, F-1, S-2

Occupancy Category (Table 1604.5): **Current:**_____ **Proposed:** II

BASIC BUILDING DATA

Construction Type: (Check all that apply) [ ] I-A [ ] I-B [ ] II-A [ ] II-B [ ] III-A [ ] III-B [ ] IV [ ] V-A [X] V-B

Sprinklers: [ ] No [ ] Partial [X] NFPA 13 [ ] NFPA 13R [ ] NFPA 13D

Standpipes: [X] No Class [ ] I [ ] II [ ] III [ ] Wet [ ] Dry

Primary Fire District: [X] No [ ] Yes **Flood Hazard Area:** [X] No [ ] Yes

Special Inspections Required: [X] No [ ] Yes

GROSS BUILDING AREA

FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
1st Floor	0	5583	5583
TOTAL:	0	5583	5583

ALLOWABLE AREA

Primary Occupancy Classification(s):
Assembly: [ ] A-1 [ ] A-2 [X] A-3 [ ] A -4 [ ] A-5
Business: [X]
Educational: [ ]
Factory [X] F-1 Moderate [ ] F-2 Low
Hazardous: [ ] H-1 Detonate [ ] H-2 Deflagrate [ ] H-3 Combust [ ] H-4 Health [ ] H-5 HPM
Institutional: [ ] I-1 [ ] I-2 [ ] I-3 [ ] I-4
I-1 Condition [ ] 1 [ ] 2
I-2 [ ] 1 [ ] 2
I-3 Condition: [ ] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5
Mercantile: [ ]
Residential: [ ] R-1 [ ] R-2 [ ] R-3 [ ] R-4
Storage: [X] S-1 Moderate [ ] S-2 Low [ ] High-piled [ ] Parking Garage [ ] Open [ ] Enclosed [ ] Repair Garage
Utility and Miscellaneous: [ ]

Accessory Occupancy Classification(s): _____

Incidental Uses (Table 509): _____

This separation is not exempt as a Non-Separated Use (see exceptions).

Special Uses (Chapter 4 - List Code Sections): _____

Special Provisions (Chapter 5 - List Code Sections): _____

Mixed Occupancy: [ ] No [X] Yes Separation:____Hr. Exception:_____

[X] Non-Separated Use (508.3)

[ ] Separated Use (508.4) - See below for area calculations for each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} \leq 1$$

$$\frac{0}{0} + \frac{0}{0} + \frac{0}{0} + \frac{0}{0} + \frac{0}{0} + \frac{0}{0} = 0 \qquad \leq 1$$

BOTH BUILDING AND TENANT MUST BE LISTED ON CHART BELOW

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2[4] AREA	(C) AREA FOR FRONTAGE INCREASE[1,5]	(D) ALLOWABLE AREA PER STORY OR UNLIMITED[2,3]
1	A-3 ASSEMBLY	3525	6,000	75%	10,500
1	B TOILETS	1206	9,000	75%	13,500
1	F-1 KITCHEN	561	8,500	75%	14,875
1	S-2 STORAGE	291	9,000	75%	13,500

[1] Frontage area increases from Section 506.2 are computed thus:
a. Perimeter which fronts a public way or open space having 20 feet minimum width = 10 ft (F)
b. Total Building Perimeter = 20 ft (P)
c. Ratio (F/P) = 0.5 (F/P)
d. W = Minimum width of public way = 0 ft (W)

[2] Unlimited area applicable under conditions of Section 507.
[3] Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2).
[4] The maximum area of open parking garages must comply with Table 406.5.4. The maximum area of air traffic control towers must comply with Table 412.3.1.
[5] Frontage increase is based on the unsprinklered area value in Table 506.2.

ALLOWABLE HEIGHT

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet (Table 504.3)	60'	24'	
Building Height in Stories (Table 504.4)	1	1	

[1] Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING REQ'D*	RATING PROVIDED (W/ _____* REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLIES	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED PENETRATION
Structural Frame, including columns, girders, trusses		0	0				
Bearing Walls							
Exterior							
North	--	0 HR	0				
East	--	0 HR	0				
West	--	0 HR	0				
South	--	0 HR	0				
Interior		0	N/A				
Nonbearing Walls and Partitions							
Exterior walls							
North	--	0 HR	0				
East	--	0 HR	0				
West	--	0 HR	0				
South	--	0 HR	0				
Interior walls and partitions		0	0				
Floor Construction Including supporting beams and joists		0	0				
Floor Ceiling Assembly		0	0				
Columns Supporting Floors		0	N/A				
Roof construction, including supporting beams and joists**		0	0				
Roof Ceiling Assembly		0	0				
Columns Supporting Roof		0	0				
Shaft Enclosures - Exit		0	N/A				
Shaft Enclosures - Other		N/A	N/A				
Corridor Separation		N/A	N/A				
Occupancy/Fire Barrier Separation		N/A	N/A				
Party/Fire Wall Separation		N/A	N/A				
Smoke Barrier Separation		N/A	N/A				
Smoke Partition		N/A	N/A				
Tenant/Dwelling Unit/Sleeping Unit Separation		N/A	N/A				
Incidental Use Separation		N/A	N/A				

* Indicate section number permitting reduction

PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
NORTH: >30'	UP, S	NO LIMIT	46%
SOUTH: >30'	UP, S	NO LIMIT	37%
EAST: >30'	UP, S	NO LIMIT	20%
WEST: >30'	UP, S	NO LIMIT	17%

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: [X] **Yes** [ ] **No**
Exit Signs: [X] **Yes** [ ] **No**
Fire Alarm: [X] **Yes** [ ] **No**
Smoke Detection Systems: [X] **Yes** [ ] **No**
Carbon Monoxide Detection: [X] **Yes** [ ] **No**

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet # G112
[ ] Fire and/or smoke rated wall locations (Chapter 7)
[ ] Assumed and real property line locations (if not on the site plan)
[ ] Exterior wall opening area with respect to distance to assumed property lines (705.8)
[X] Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)
[X] Occupant loads for each area
[X] Exit access travel distances (1017)
[X] Common path of travel distances (1006.2.1 & 1006.3.2(1))
[X] Dead end lengths (1020.4)
[X] Clear exit widths for each exit door
[X] Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)
[X] Actual occupant load for each exit door
[ ] A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation
[X] Location of doors with panic hardware (1010.1.10)
[ ] Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)
[ ] Location of doors with electromagnetic egress locks (1010.1.9.9)
[ ] Location of doors equipped with hold-open devices
[ ] Location of emergency escape windows (1030)
[ ] The square footage of each fire area (202)
[ ] The square footage of each smoke compartment for Occupancy Classification I-2 (407.5)
[ ] Note any code exceptions or table notes that may have been utilized regarding the items above

ACCESSIBLE DWELLING UNITS
(Section 1107)

TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED
0	0	0	0	0	0	0	0

ACCESSIBLE PARKING
(Section 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES		# OF ACCESSIBLE SPACES PROVIDED			TOTAL # ACCESSIBLE PROVIDED
	REQUIRED	PROVIDED	REGULAR WITH 5' ACCESS AISLE	VAN SPACES WITH 132" ACCESS AISLE	VAN SPACES WITH 8' ACCESS AISLE	
	0	0	0	0	0	0
	0	0	0	0	0	0
	0	0	0	0	0	0
	0	0	0	0	0	0
	0	0	0	0	0	0
TOTAL:	0	0	0	0	0	0

PLUMBING FIXTURE REQUIREMENTS
(TABLE 2902.1)

USE		WATERCLOSETS MALE	WATERCLOSETS FEMALE	WATERCLOSETS UNISEX	URINALS	LAVATORIES MALE	LAVATORIES FEMALE	LAVATORIES UNISEX	SHOWERS /TUBS	DRINKING FOUNTAINS REGULAR	DRINKING FOUNTAINS ACCESSIBLE
SPACE	EXIST'G	-	-	-	-	-	-	-	-	-	-
	NEW	4	12	1	2	3	3	1	-	1	1
	REQ'D	6	12	1	0	3	3	0	0	1	1

PLUMBING FIXTURE NOTES:

EVENT CENTER BUILDING IS LOCATED BETWEEN THE EVENT LAWN AND THE AMPHITHEATER. TOWN OF ROLESVILLE INTENDS TO NOT HAVE SIMILTANOUS EVENTS IN THESE SPACES. PLUMBING FIXTURE REQUIREMENTS HAVE BEEN BASED ON THE AMPHITHEATER, WHICH REQUIRES MORE FIXTURES THAN THE EVENT CENTER ALONE.

SPECIAL APPROVALS

Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS,etc., describe below)

ENERGY SUMMARY

Existing building envelope complies with code: _____

Exempt Building: _____ Provide code or statutory reference: _____

Climate Zone: [ ] 3 [ ] 4 [ ] 5

Method of Compliance:
[ ] Prescriptive (Energy Code)
[ ] Performance (Energy Code)
[ ] Prescriptive (ASHRAE 90.1)
[ ] Performance (ASHRAE 90.1)

THERMAL ENVELOPE (Prescriptive method only)

Roof/ceiling Assembly (each assembly)
Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____
Skylights in each assembly: _____
U-Value of skylight: _____
total square footage of skylights in each assembly: _____

Exterior Walls (each assembly)
Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____
Openings (windows or doors with glazing):
U-Value of assembly: _____
Solar heat gain coefficient: _____
Projection Factor: _____
Door R-Values: _____

Walls below grade (each assembly)
Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____

Floor over unconditioned space (each assembly)
Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____

Floors slab on grade
Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____
Horizontal/vertical requirement: _____
Slab heated: _____

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

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WAKE FOREST, NC 27587

MICHAEL D. SUTTON REGISTERED ARCHITECT 9953 NORTH CAROLINA RALEIGH, N.C.

REVISIONS

NO.	DATE	DESCRIPTION

PLAN INFORMATION

PROJECT NO.	TORLRPMP
FILENAME	TORLRPMP_CENTRAL_2020
CHECKED BY	MDS
DRAWN BY	EEW
SCALE	SEE VIEW
DATE	Issue Date

SHEET

EVENT CENTER CODE SUMMARY

G111

= OCCUPANTS
= EXIT WIDTH REQ.
= EXIT CAPACITY (OCCUPANTS)

DIRECTION OF EGRESS TRAVEL

INTERSECTION FOR CHOICE OF TWO PATHS

EGRESS EXITS

TRAVEL PATH

COMMON PATH OF TRAVEL

PATH ALONG MAXIMUM TRAVEL DISTANCE TO AN EXIT

PROPERTY LINE

1 HR RATED FIRE BARRIER

2 HR RATED FIRE BARRIER

TOILETS (B) - 1206 SF
(100 GROSS)
TOTAL = 12 OCCUPANTS

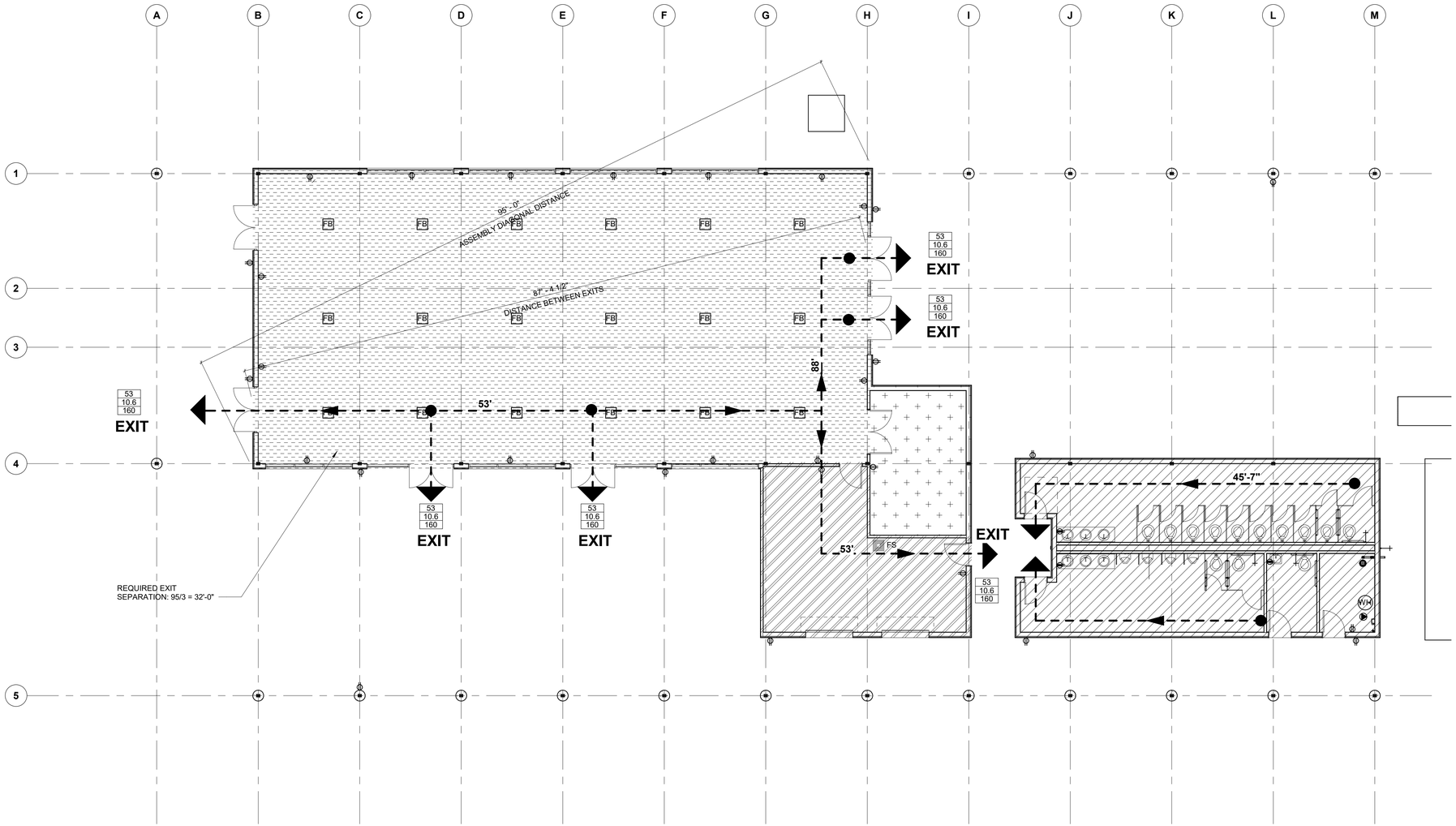
KITCHEN (F1) - 561 SF
(100 GROSS)
TOTAL = 6 OCCUPANTS

STORAGE (S2) - 291 SF
(300 GROSS)
TOTAL = 1 OCCUPANTS

ASSEMBLY (A3) - 3,525 SF
(15 NET)
TOTAL = 235 OCCUPANTS

TOTAL BUILDING OCCUPANTS: 254

LIFE SAFETY AND OCCUPANCY LEGEND - EVENT CENTER



0 4 8 16 24 FEET

PLAN NORTH TRUE NORTH

A1 EVENT CENTER LIFE SAFETY PLAN
Scale: 1/8" = 1'-0"

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PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

McADAMS
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CLIENT

NAME: TOWN OF ROLESVILLE
ADDRESS:
502 SOUTHTOWN CIRCLE,
ROLESVILLE. NC 27571
PHONE: 919.556.3506

INTEGRATED DESIGN, P.A. REGISTERED ARCHITECTURAL CORPORATION CERT. NO. 51063 NORTH CAROLINA RALEIGH, N.C.

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architecture | interiors | planning

FRAZIER FARM PARK
ARCHITECTURAL DESIGN
PROJECT ADDRESS
11624 LOUISBURG ROAD
WAKE FOREST, NC 27587

MICHAEL D. SUTTON REGISTERED ARCHITECT 9953 NORTH CAROLINA RALEIGH, N.C.

REVISIONS

NO.	DATE	DESCRIPTION

PLAN INFORMATION

PROJECT NO.	TORLRPMP
FILENAME	TORLRPMP_CENTRAL_2020
CHECKED BY	MDS
DRAWN BY	EEW
SCALE	SEE VIEW
DATE	Issue Date

SHEET

EVENT CENTER LIFE SAFETY PLAN

G112

2018 APPENDIX B BUILDING CODE SUMMARY

FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2 FAMILY DWELLINGS AND TOWNHOUSES)
(Reproduce the following data on the building plans sheet 1 or 2)

Name of Project: FRAZIER FARM PARK
Address: 11624 Louisburg Road, Wake Forest, North Carolina 27587
Proposed Use: --
Owner or Authorized Agent: Town of Rolesville
Phone: 919.556.3506
Email: jg.ferguson@rolesville.nc.gov
Owned By: [X] City/County [ ] Private [ ] State
Code Enforcement Jurisdiction: [ ] City _____ [X] County Rolesville [ ] State

Contact:

DESIGNER	FIRM	NAME	LICENSE	PHONE	E-MAIL
Architectural:	Integrated Design	Michael D. Sutton	9953	919.832.6658	mds@id-aep.com
Civil:	McAdams Company		--	919.361.5000	
Electrical:	Stanford White	Matt Johnson	00000	919.832.8118	matt.johnson@salasobrien.com
Fire Alarm:	--	--	--	--	--
Plumbing:	Stanford White	Matt Johnson	00000	919.832.8118	
Mechanical:	Stanford White	Matt Johnson	00000	919.832.8118	
Sprinkler:	N/A	N/A	N/A	N/A	N/A
Standpipe:	N/A	N/A	N/A	N/A	N/A
Structural:	Scalene Design	Robert Macia, PA	26690	--	--
Precast:	N/A	N/A	N/A	N/A	N/A
Trusses:	N/A	N/A	N/A	N/A	N/A
Retaining:	N/A	N/A	N/A	N/A	N/A
Walls >5':	--	--	--	--	--
Other:	Sports field consultant	Dan Dodd	0000	803.981.4330	Dan@Fitfields.com

"Other" should include firms and individuals such as truss, pre-engineered, interior designers, etc.

2018 NC Building Code: [X] New Building [ ] Shell/Core [ ] 1st Time Interior Completions
[ ] Addition [ ] Phased Construction - Shell Core
2018 NC Existing Building Code: [ ] Prescriptive [ ] Alteration Level I [ ] Historic Property
(check all that apply) [ ] Repair [ ] Alteration Level II [ ] Change of Use
[ ] Chapter 14 [ ] Alteration Level III

Constructed: (date) -- **Current Occupancy(s):** (Ch.3): _____
Renovated: (date) _____ **Proposed Occupancy(s):** (Ch.3): B

Occupancy Category (Table 1604.5): **Current:** _____ **Proposed:** II

BASIC BUILDING DATA

Construction Type: (Check all that apply) [ ] I-A [ ] I-B [ ] II-A [ ] II-B [ ] III-A [ ] III-B [ ] IV [ ] V-A [X] V-B
Sprinklers: [X] No [ ] Partial [ ] NFPA 13 [ ] NFPA 13R [ ] NFPA 13D
Standpipes: [X] No Class [ ] I [ ] II [ ] III [ ] Wet [ ] Dry
Primary Fire District: [X] No [ ] Yes **Flood Hazard Area:** [X] No [ ] Yes
Special Inspections Required: [X] No [ ] Yes

GROSS BUILDING AREA

FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
2nd Floor	0	1945	
1st Floor	0	1311	
TOTAL:	0	3256	

ALLOWABLE AREA

Primary Occupancy Classification(s):
Assembly: [ ] A-1 [ ] A-2 [ ] A-3 [ ] A -4 [ ] A-5
Business: [X]
Educational: [ ]
Factory [ ] F-1 Moderate [ ] F-2 Low
Hazardous: [ ] H-1 Detonate [ ] H-2 Deflagrate [ ] H-3 Combust [ ] H-4 Health [ ] H-5 HPM
Institutional: [ ] I-1 [ ] I-2 [ ] I-3 [ ] I-4
I-1 Condition [ ] 1 [ ] 2
I-2 [ ] 1 [ ] 2
I-3 Condition: [ ] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5
Mercantile: [ ]
Residential: [ ] R-1 [ ] R-2 [ ] R-3 [ ] R-4
Storage: [ ] S-1 Moderate [ ] S-2 Low [ ] High-piled
[ ] Parking Garage [ ] Open [ ] Enclosed [ ] Repair Garage
Utility and Miscellaneous: [ ]

Accessory Occupancy Classification(s): _____
Incidental Uses (Table 509): _____
This separation is not exempt as a Non-Separated Use (see exceptions).
Special Uses (Chapter 4 - List Code Sections): _____
Special Provisions (Chapter 5 - List Code Sections): _____
Mixed Occupancy: [X] No [ ] Yes Separation: ____ Hr. Exception: _____
[ ] Non-Separated Use (508.3)
[ ] Separated Use (508.4) - See below for area calculations for each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} \leq 1$$

$$\frac{0}{0} + \frac{0}{0} + \frac{0}{0} + \frac{0}{0} + \frac{0}{0} = 0 \leq 1$$

BOTH BUILDING AND TENANT MUST BE LISTED ON CHART BELOW

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2[4] AREA	(C) AREA FOR FRONTAGE INCREASE[1,5]	(D) ALLOWABLE AREA PER STORY OR UNLIMITED[2,3]
1	B-TOILETS &	1945	9000	75%	15,750
	CONCESSIONS				
2	B - OFFICES &	1311	9000	75%	15,750
	PRESS				

[1] Frontage area increases from Section 506.2 are computed thus:
a. Perimeter which fronts a public way or open space having 20 feet minimum width = 10 ft (F)
b. Total Building Perimeter = 20 ft (P)
c. Ratio (F/P) = 0.5 (F/P)
d. W = Minimum width of public way = 0 ft (W)
[2] Unlimited area applicable under conditions of Section 507.
[3] Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2).
[4] The maximum area of open parking garages must comply with Table 406.5.4. The maximum area of air traffic control towers must comply with Table 412.3.1.
[5] Frontage increase is based on the unsprinklered area value in Table 506.2.

ALLOWABLE HEIGHT

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet (Table 504.3)	40'-0"	32'-10"	
Building Height in Stories (Table 504.4)	2	2	

[1] Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING REQ'D*	RATING PROVIDED (W/_____* REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLIES	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED PENETRATION
Structural Frame, including columns, girders, trusses		0	0				
Bearing Walls			0				
Exterior			0				
North	--	0 HR	0				
East	--	0 HR	0				
West	--	0 HR	0				
South	--	0 HR	0				
Interior		0	0				
Nonbearing Walls and Partitions Exterior walls							
North	--	0 HR	N/A				
East	--	0 HR	N/A				
West	--	0 HR	N/A				
South	--	0 HR	N/A				
Interior walls and partitions		0	0				
Floor Construction Including supporting beams and joists		0	0				
Floor Ceiling Assembly		0	0				
Columns Supporting Floors		0	N/A				
Roof construction, including supporting beams and joists**		0	0				
Roof Ceiling Assembly		0	0				
Columns Supporting Roof		0	N/A				
Shaft Enclosures - Exit		1	1	G103	UL 905		
Shaft Enclosures - Other		N/A	N/A				
Corridor Separation		N/A	N/A				
Occupancy/Fire Barrier Separation		N/A	N/A				
Party/Fire Wall Separation		N/A	N/A				
Smoke Barrier Separation		N/A	N/A				
Smoke Partition		N/A	N/A				
Tenant/Dwelling Unit/Sleeping Unit Separation		N/A	N/A				
Incidental Use Separation		N/A	N/A				

* Indicate section number permitting reduction

PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
NORTH: >30'	UP, NS	NO LIMIT	23.91 %
SOUTH: >30'	UP, NS	NO LIMIT	24.46 %
EAST: >30'	UP, NS	NO LIMIT	20.09 %
WEST: >30'	UP, NS	NO LIMIT	29.10 %

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: [X] Yes [ ] No
Exit Signs: [X] Yes [ ] No
Fire Alarm: [ ] Yes [X] No
Smoke Detection Systems: [X] Yes [ ] No
Carbon Monoxide Detection: [ ] Yes [X] No

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet # G 122
[X] Fire and/or smoke rated wall locations (Chapter 7)
[ ] Assumed and real property line locations (if not on the site plan)
[ ] Exterior wall opening area with respect to distance to assumed property lines (705.8)
[X] Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)
[X] Occupant loads for each area
[X] Exit access travel distances (1017)
[X] Common path of travel distances (1006.2.1 & 1006.3.2(1))
[X] Dead end lengths (1020.4)
[X] Clear exit widths for each exit door
[X] Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)
[X] Actual occupant load for each exit door
[ ] A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation
[ ] Location of doors with panic hardware (1010.1.10)
[ ] Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)
[ ] Location of doors with electromagnetic egress locks (1010.1.9.9)
[ ] Location of doors equipped with hold-open devices
[ ] Location of emergency escape windows (1030)
[ ] The square footage of each fire area (202)
[ ] The square footage of each smoke compartment for Occupancy Classification I-2 (407.5)
[ ] Note any code exceptions or table notes that may have been utilized regarding the items above

ACCESSIBLE DWELLING UNITS
(Section 1107)

TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED
0	0	0	0	0	0	0	0

ACCESSIBLE PARKING
(Section 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES		# OF ACCESSIBLE SPACES PROVIDED			TOTAL # ACCESSIBLE PROVIDED
	REQUIRED	PROVIDED	REGULAR WITH 5' ACCESS AISLE	VAN SPACES WITH 132" ACCESS AISLE	8' ACCESS AISLE	
	0	0	0	0	0	0
	0	0	0	0	0	0
	0	0	0	0	0	0
	0	0	0	0	0	0
	0	0	0	0	0	0
TOTAL:	0	0	0	0	0	0

PLUMBING FIXTURE REQUIREMENTS
(TABLE 2902.1)

USE		WATERCLOSETS			URINALS	LAVATORIES			SHOWERS /TUBS	DRINKING FOUNTAINS	
		MALE	FEMALE	UNISEX		MALE	FEMALE	UNISEX		REGULAR	ACCESSIBLE
SPACE	EXIST'G										
	NEW	3	6	1	1	2	3	1	0	1	1
	REQ'D	4	6	1	0	2	2	1	0	1	1

PLUMBING FIXTURE NOTES:

CALCULATIONS FOR THIS BUILDING WERE DETERMINED AS FOLLOWS:
12 PLAYERS PER TEAM PER FIELD (12 x 2 x 5 = 120)
2 FAMILY MEMBERS FOR EACH PLAYER (120 x 2 = 240)
AMOUNT DOUBLED FOR TOURNAMNETS WHERE TEAMS HAVE OVERLAPPING ARRIVAL/PLAY TIMES
(240 x 2 = 480)

SPECIAL APPROVALS

Special approval: (Local Jurisdiction, Department of Insurance, DSC, DPI, DHHS,etc., describe below)

ENERGY SUMMARY

Existing building envelope complies with code: _____
Exempt Building: _____ Provide code or statutory reference: _____
Climate Zone: [ ] 3 [ ] 4 [ ] 5
Method of Compliance:
[ ] Prescriptive (Energy Code)
[ ] Performance (Energy Code)
[ ] Prescriptive (ASHRAE 90.1)
[ ] Performance (ASHRAE 90.1)

THERMAL ENVELOPE (Prescriptive method only)
Roof/ceiling Assembly (each assembly)
Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____
Skylights in each assembly: _____
U-Value of skylight: _____
total square footage of skylights in each assembly: _____
Exterior Walls (each assembly)
Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____
Openings (windows or doors with glazing):
U-Value of assembly: _____
Solar heat gain coefficient: _____
Projection Factor: _____
Door R-Values: _____
Walls below grade (each assembly)
Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____
Floor over unconditioned space (each assembly)
Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____
Floors slab on grade
Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____
Horizontal/vertical requirement: _____
Slab heated: _____

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CLIENT

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ROLESVILLE. NC 27571
PHONE: 919.556.3506

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MICHAEL D. SUTTON REGISTERED ARCHITECT 9953 NORTH CAROLINA RALEIGH, N.C.

REVISIONS

NO.	DATE	DESCRIPTION

PLAN INFORMATION

PROJECT NO.	TORLRPMP
FILENAME	TORLRPMP_CENTRAL_2020
CHECKED BY	MDS
DRAWN BY	KD
SCALE	SEE VIEW
DATE	Issue Date

SHEET

OCTAGON CODE SUMMARY

G121

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

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= OCCUPANTS
= EXIT WIDTH REQ.
= EXIT CAPACITY (OCCUPANTS)

BUSINESS (B) = 3256 SF
FIRST FLOOR (1945 SF)
SECOND FLOOR (1131 SF)
TOTAL = 33 OCCUPANTS TOTAL

DIRECTION OF EGRESS TRAVEL

INTERSECTION FOR CHOICE OF TWO PATHS

EGRESS EXITS

TRAVEL PATH

COMMON PATH OF TRAVEL

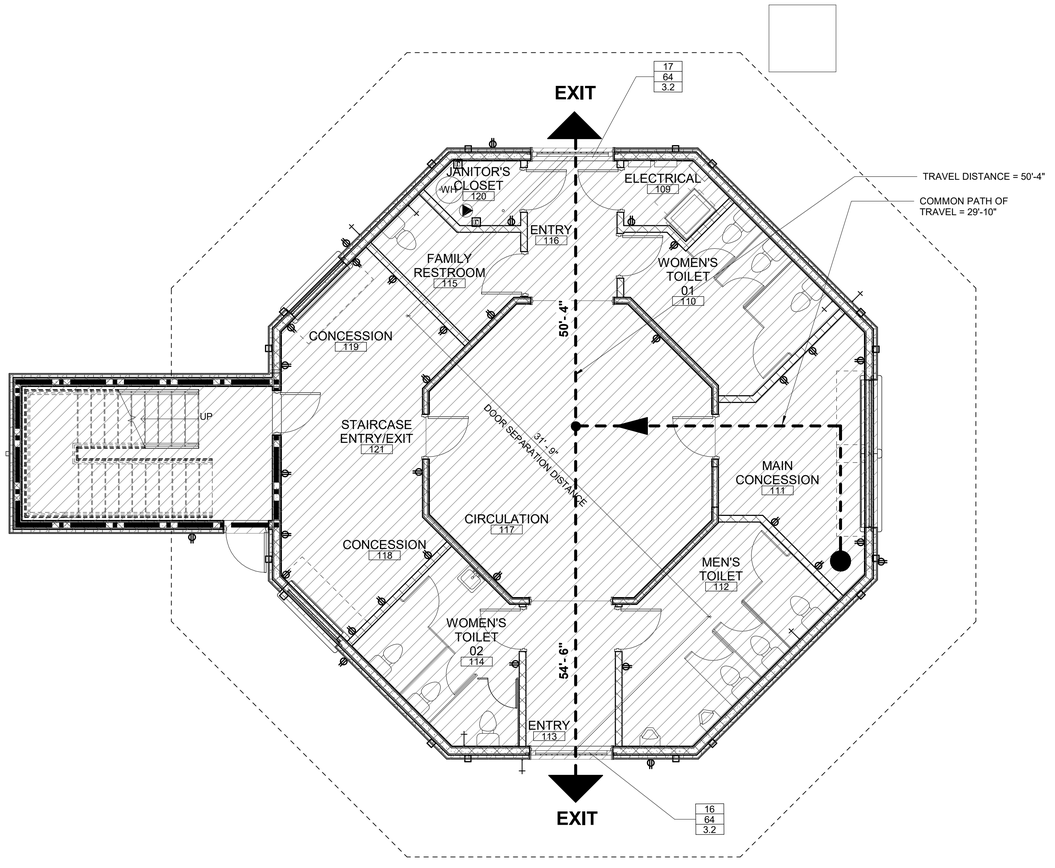
PATH ALONG MAXIMUM TRAVEL DISTANCE TO AN EXIT

PROPERTY LINE

1 HR RATED FIRE BARRIER

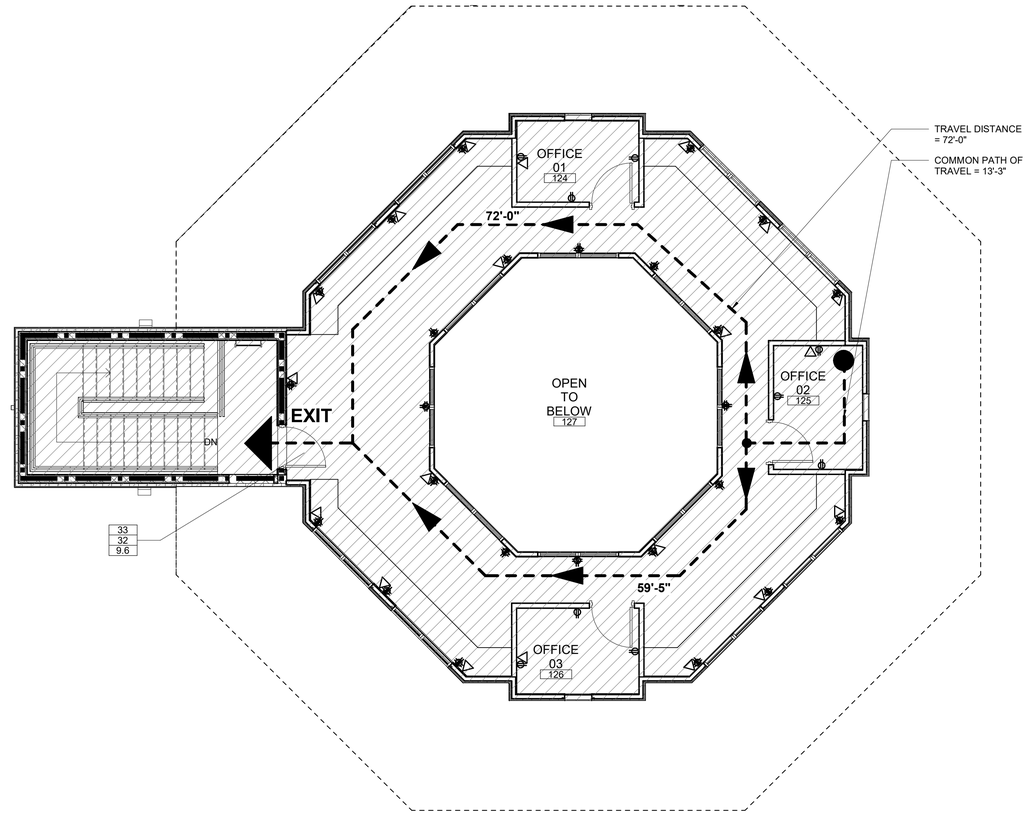
2 HR RATED FIRE BARRIER

LIFE SAFETY AND OCCUPANCY LEGEND - OCTAGON



A1 OCTAGON FIRST FLOOR LIFE SAFETY PLAN

Scale: 3/16" = 1'-0"



A2 OCTAGON SECOND FLOOR LIFE SAFETY PLAN

Scale: 3/16" = 1'-0"

0 1 2 4 8 16

PLAN NORTH TRUE NORTH

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

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MICHAEL D. SUTTON REGISTERED ARCHITECT 9953 NORTH CAROLINA RALEIGH, N.C.

1 REVISIONS

NO.	DATE	DESCRIPTION

PLAN INFORMATION

PROJECT NO.	TORLRPMP
FILENAME	TORLRPMP_CENTRAL_2020
CHECKED BY	MDS
DRAWN BY	KD
SCALE	SEE VIEW
DATE	Issue Date

SHEET

OCTAGON LIFE SAFETY PLANS

G122

2018 APPENDIX B BUILDING CODE SUMMARY

FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2 FAMILY DWELLINGS AND TOWNHOUSES)
(Reproduce the following data on the building plans sheet 1 or 2)

Name of Project: FRAZIER FARM PARK
Address: 11624 Louisburg Road, Wake Forest, North Carolina 27587
Proposed Use: --
Owner or Authorized Agent: Town of Rolesville
Phone: 919.556.3506
Email: jg.ferguson@rolesville.nc.gov
Owned By: [X] City/County [ ] Private [ ] State
Code Enforcement Jurisdiction: [ ] City _____ [X] County _____ [ ] State

Contact:

DESIGNER	FIRM	NAME	LICENSE	PHONE	E-MAIL
Architectural:	Integrated Design	Michael D. Sutton	9953	919.832.6658	michael.sutton@id-aep.com
Civil:	McAdams Company		--	919.361.5000	
Electrical:	Stanford White	Matt Johnson	00000	919.832.8118	matt.johnson@salasobrien.com
Fire Alarm:	--	--	--	--	--
Plumbing:	Stanford White	Matt Johnson	00000	919.832.8118	
Mechanical:	Stanford White	Matt Johnson	00000	919.832.8118	
Sprinkler:	N/A	N/A	N/A	N/A	N/A
Standpipe:	N/A	N/A	N/A	N/A	N/A
Structural:	Scalene Design	Robert Macia, PA	26690	919.825.0295	rmacia@scalene-design.com
Precast:	N/A	N/A	N/A	N/A	N/A
Trusses:	N/A	N/A	N/A	N/A	N/A
Retaining:	N/A	N/A	N/A	N/A	N/A
Walls >5':	--	--	--	--	--
Other:	Sports field consultant	Dan Dodd	0000	803.981.4330	Dan@Fitfields.com

"Other" should include firms and individuals such as truss, pre-engineered, interior designers, etc.

2018 NC Building Code: [X] New Building [ ] Addition [ ] Prescriptive [ ] Repair [ ] Chapter 14 [ ] Shell/Core [ ] Phased Construction - Shell Core [ ] Alteration Level I [ ] Alteration Level II [ ] Alteration Level III [ ] 1st Time Interior Completions [ ] Historic Property [ ] Change of Use

2018 NC Existing Building Code: (check all that apply)

Constructed: (date)_____
Renovated: (date) _____
_____
_____
_____

Current Occupancy(s): (Ch.3): _____
Proposed Occupancy(s): (Ch.3): S-1, B

Occupancy Category (Table 1604.5): **Current:**_____ **Proposed:** II

BASIC BUILDING DATA

Construction Type: (Check all that apply) [ ] I-A [ ] I-B [ ] II-A [ ] II-B [ ] III-A [ ] III-B [ ] IV [X] V-A [X] V-B

Sprinklers: [X] No [ ] Partial [ ] NFPA 13 [ ] NFPA 13R [ ] NFPA 13D

Standpipes: [X] No Class [ ] I [ ] II [ ] III [ ] Wet [ ] Dry

Primary Fire District: [X] No [ ] Yes **Flood Hazard Area:** [X] No [ ] Yes

Special Inspections Required: [X] No [ ] Yes

GROSS BUILDING AREA

FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
1st Floor	0	2880	2880
TOTAL:	0	2880	2880

ALLOWABLE AREA

Primary Occupancy Classification(s):
Assembly: [ ] A-1 [ ] A-2 [ ] A-3 [ ] A -4 [ ] A-5
Business: [X]
Educational: [ ]
Factory [ ] F-1 Moderate [ ] F-2 Low
Hazardous: [ ] H-1 Detonate [ ] H-2 Deflagrate [ ] H-3 Combust [ ] H-4 Health [ ] H-5 HPM
Institutional: [ ] I-1 [ ] I-2 [ ] I-3 [ ] I-4
I-1 Condition [ ] 1 [ ] 2
I-2 [ ] 1 [ ] 2
I-3 Condition: [ ] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5
Mercantile: [ ]
Residential: [ ] R-1 [ ] R-2 [ ] R-3 [ ] R-4
Storage: [X] S-1 Moderate [ ] S-2 Low [ ] High-piled [ ] Parking Garage [ ] Open [ ] Enclosed [ ] Repair Garage
Utility and Miscellaneous: [ ]

Accessory Occupancy Classification(s): _____
Incidental Uses (Table 509): _____
This separation is not exempt as a Non-Separated Use (see exceptions).
Special Uses (Chapter 4 - List Code Sections): _____
Special Provisions (Chapter 5 - List Code Sections): _____
Mixed Occupancy: [ ] No [X] Yes Separation:____Hr. Exception:_____

[X] Non-Separated Use (508.3)

[ ] Separated Use (508.4) - See below for area calculations for each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} \leq 1$$

$$\frac{0}{0} + \frac{0}{0} + \frac{0}{0} + \frac{0}{0} + \frac{0}{0} = 0 \qquad \leq 1$$

BOTH BUILDING AND TENANT MUST BE LISTED ON CHART BELOW

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2[4] AREA	(C) AREA FOR FRONTAGE INCREASE[1,5]	(D) ALLOWABLE AREA PER STORY OR UNLIMITED[2,3]
1	S-1: PARK	2352	9000	75%	15,750
	MAINTENANCE				
1	B: OFFICE	528	9000	75%	15,750

[1] Frontage area increases from Section 506.2 are computed thus:
a. Perimeter which fronts a public way or open space having 20 feet minimum width = 10 ft (F)
b. Total Building Perimeter = 20 ft (P)
c. Ratio (F/P) = 0.5 (F/P)
d. W = Minimum width of public way = 0 ft (W)
[2] Unlimited area applicable under conditions of Section 507.
[3] Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2).
[4] The maximum area of open parking garages must comply with Table 406.5.4. The maximum area of air traffic control towers must comply with Table 412.3.1.
[5] Frontage increase is based on the unsprinklered area value in Table 506.2.

ALLOWABLE HEIGHT

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet (Table 504.3)	40'	20'	
Building Height in Stories (Table 504.4)	1	1	1 STORY BASED ON S-1 OCCUPANCY

[1] Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING REQ'D*	RATING PROVIDED (W/_____* REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLIES	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED PENETRATION
Structural Frame, including columns, girders, trusses		0	0				
Bearing Walls							
Exterior							
North		0 HR	0				
East		0 HR	0				
West		0 HR	0				
South		0 HR	0				
Interior		0	0				
Nonbearing Walls and Partitions							
Exterior walls							
North		0 HR	0				
East		0 HR	0				
West		0 HR	0				
South		0 HR	0				
Interior walls and partitions		0	0				
Floor Construction							
Including supporting beams and joists		0	0				
Floor Ceiling Assembly		0	0				
Columns Supporting Floors		0	N/A				
Roof construction, including supporting beams and joists**		0	0				
Roof Ceiling Assembly		0	0				
Columns Supporting Roof		0	N/A				
Shaft Enclosures - Exit		N/A	N/A				
Shaft Enclosures - Other		N/A	N/A				
Corridor Separation		N/A	N/A				
Occupancy/Fire Barrier Separation		N/A	N/A				
Party/Fire Wall Separation		N/A	N/A				
Smoke Barrier Separation		N/A	N/A				
Smoke Partition		N/A	N/A				
Tenant/Dwelling Unit/Sleeping Unit Separation		N/A	N/A				
Incidental Use Separation		N/A	N/A				

* Indicate section number permitting reduction

PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
NORTH: >30'	UP, NS	NO LIMIT	34%
SOUTH: >30'	UP, NS	NO LIMIT	40%
EAST: >30'	UP, NS	NO LIMIT	NO OPENINGS
WEST: >30'	UP, NS	NO LIMIT	5%

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: [X] **Yes** [ ] **No**
Exit Signs: [X] **Yes** [ ] **No**
Fire Alarm: [ ] **Yes** [X] **No**
Smoke Detection Systems: [X] **Yes** [ ] **No**
Carbon Monoxide Detection: [X] **Yes** [ ] **No**

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet # -- G112
[ ] Fire and/or smoke rated wall locations (Chapter 7)
[ ] Assumed and real property line locations (if not on the site plan)
[ ] Exterior wall opening area with respect to distance to assumed property lines (705.8)
[X] Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)
[X] Occupant loads for each area
[X] Exit access travel distances (1017)
[X] Common path of travel distances (1006.2.1 & 1006.3.2(1))
[X] Dead end lengths (1020.4)
[X] Clear exit widths for each exit door
[X] Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)
[X] Actual occupant load for each exit door
[ ] A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation
[ ] Location of doors with panic hardware (1010.1.10)
[ ] Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)
[ ] Location of doors with electromagnetic egress locks (1010.1.9.9)
[ ] Location of doors equipped with hold-open devices
[ ] Location of emergency escape windows (1030)
[ ] The square footage of each fire area (202)
[ ] The square footage of each smoke compartment for Occupancy Classification I-2 (407.5)
[ ] Note any code exceptions or table notes that may have been utilized regarding the items above

ACCESSIBLE DWELLING UNITS
(Section 1107)

TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED
0	0	0	0	0	0	0	0

ACCESSIBLE PARKING
(Section 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES		# OF ACCESSIBLE SPACES PROVIDED			TOTAL # ACCESSIBLE PROVIDED
	REQUIRED	PROVIDED	REGULAR WITH 5' ACCESS AISLE	VAN SPACES WITH 132" ACCESS AISLE	VAN SPACES WITH 8' ACCESS AISLE	
	0	0	0	0	0	0
	0	0	0	0	0	0
	0	0	0	0	0	0
	0	0	0	0	0	0
	0	0	0	0	0	0
TOTAL:	0	0	0	0	0	0

PLUMBING FIXTURE REQUIREMENTS
(TABLE 2902.1)

USE		WATERCLOSETS			URINALS	LAVATORIES			SHOWERS /TUBS	DRINKING FOUNTAINS	
		MALE	FEMALE	UNISEX		MALE	FEMALE	UNISEX		REGULAR	ACCESSIBLE
SPACE	EXIST'G	0	0	0	0	0	0	0	0	0	0
	NEW	0	0	0	0	0	0	0	0	0	0
	REQ'D	0	0	0	0	0	0	0	0	0	0

SPECIAL APPROVALS

Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS,etc., describe below)

ENERGY SUMMARY

Existing building envelope complies with code: _____
Exempt Building:_____ Provide code or statutory reference: _____
Climate Zone: [ ] 3 [ ] 4 [ ] 5
Method of Compliance:
[ ] Prescriptive (Energy Code)
[ ] Performance (Energy Code)
[ ] Prescriptive (ASHRAE 90.1)
[ ] Performance (ASHRAE 90.1)

THERMAL ENVELOPE (Prescriptive method only)
Roof/ceiling Assembly (each assembly)
Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____
Skylights in each assembly: _____
U-Value of skylight: _____
total square footage of skylights in each assembly: _____
Exterior Walls (each assembly)
Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____
Openings (windows or doors with glazing):
U-Value of assembly: _____
Solar heat gain coefficient: _____
Projection Factor: _____
Door R-Values: _____
Walls below grade (each assembly)
Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____
Floor over unconditioned space (each assembly)
Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____
Floors slab on grade
Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____
Horizontal/vertical requirement: _____
Slab heated: _____

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

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11624 LOUISBURG ROAD
WAKE FOREST, NC 27587

MICHAEL D. SUTTON REGISTERED ARCHITECT 9953 NORTH CAROLINA RALEIGH, N.C.

REVISIONS

NO.	DATE	DESCRIPTION

PLAN INFORMATION

PROJECT NO.	TORLRPMP
FILENAME	TORLRPMP_CENTRAL_2020
CHECKED BY	MDS
DRAWN BY	EEW
SCALE	SEE VIEW
DATE	Issue Date

SHEET

MAINTENANCE CODE SUMMARY

G131

= OCCUPANTS
= EXIT WIDTH REQ.
= EXIT CAPACITY (OCCUPANTS)

DIRECTION OF EGRESS TRAVEL

INTERSECTION FOR CHOICE OF TWO PATHS

EGRESS EXITS

TRAVEL PATH

COMMON PATH OF TRAVEL

PATH ALONG MAXIMUM TRAVEL DISTANCE TO AN EXIT

PROPERTY LINE

1 HR RATED FIRE BARRIER

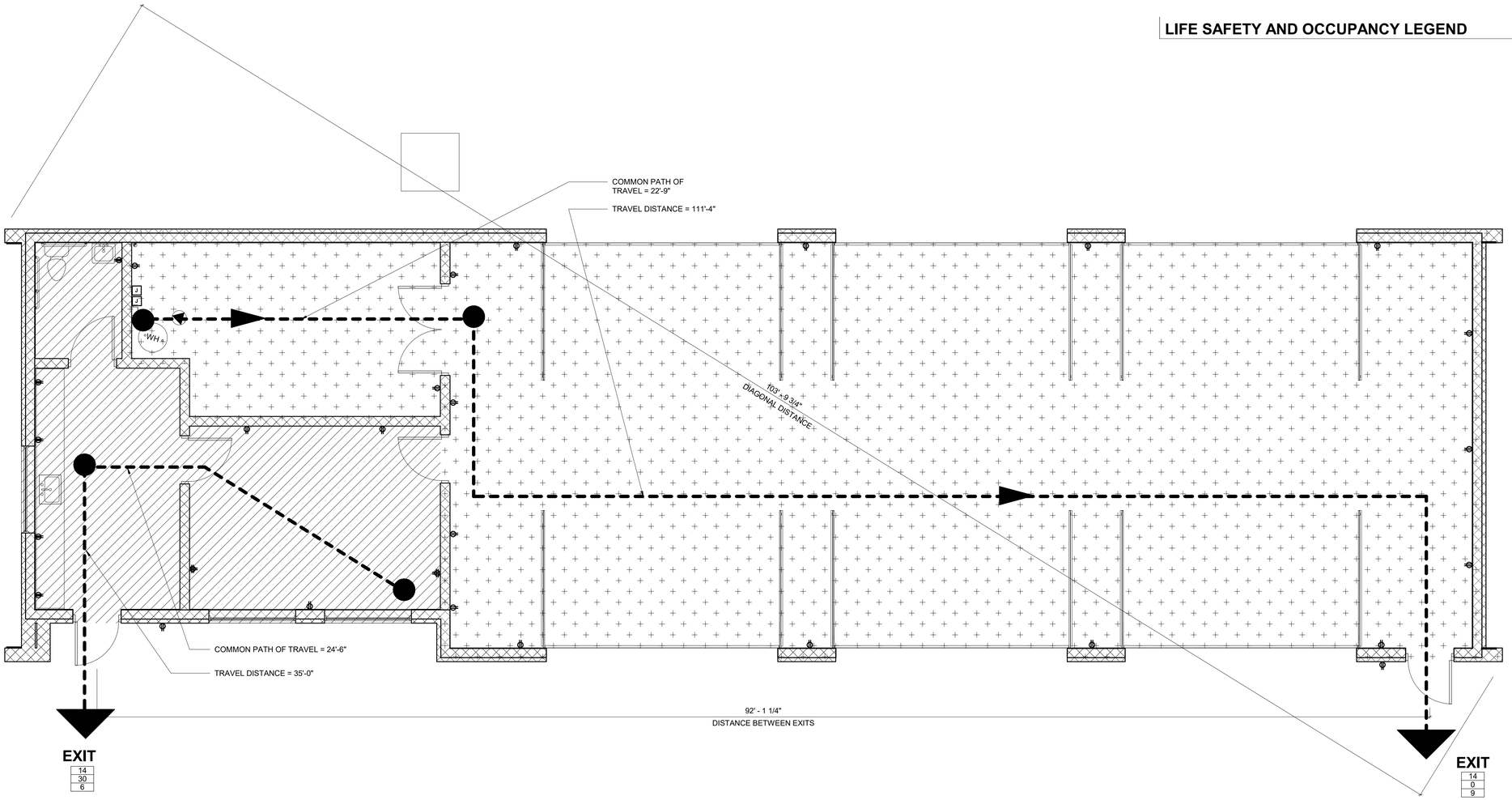
2 HR RATED FIRE BARRIER

BUSINESS (B) - 528 SF
(100 GROSS)
TOTAL = 6 OCCUPANTS

STORAGE AREAS (S1) - 2352 SF
(300 GROSS)
TOTAL = 8 OCCUPANTS

GROSS TOTAL OCCUPANTS = 14

LIFE SAFETY AND OCCUPANCY LEGEND



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PLAN NORTH TRUE NORTH

A1 MAINTENANCE BUILDING LIFE SAFETY PLAN

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

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REVISIONS

NO.	DATE	DESCRIPTION

PLAN INFORMATION

PROJECT NO.	TORLRPMP
FILENAME	TORLRPMP_CENTRAL_2020
CHECKED BY	MDS
DRAWN BY	EEW
SCALE	SEE VIEW
DATE	Issue Date

SHEET

MAINTENANCE LIFE SAFETY PLAN

G132

2018 APPENDIX B BUILDING CODE SUMMARY

FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2 FAMILY DWELLINGS AND TOWNHOUSES)
(Reproduce the following data on the building plans sheet 1 or 2)

Name of Project: FRAZIER FARM PARK
Address: 11624 Louisburg Road, Wake Forest, North Carolina 27587
Proposed Use: --
Owner or Authorized Agent: Town of Rolesville
Phone: 919.556.3506
Email: jg.ferguson@rolesville.nc.gov
Owned By: [X] City/County [ ] Private [ ] State
Code Enforcement Jurisdiction: [ ] City _____ [X] County _____ [ ] State

Contact:

DESIGNER	FIRM	NAME	LICENSE	PHONE	E-MAIL
Architectural:	Integrated Design	Michael D. Sutton	9953	919.832.6658	michael.sutton@id-aep.com
Civil:	McAdams Company		--	919.361.5000	
Electrical:	Stanford White	Matt Johnson	00000	919.832.8118	matt.johnson@salasobrien.com
Fire Alarm:	--	--	--	--	--
Plumbing:	Stanford White	Matt Johnson	00000	919.832.8118	
Mechanical:	Stanford White	Matt Johnson	00000	919.832.8118	
Sprinkler:	N/A	N/A	N/A	N/A	N/A
Standpipe:	N/A	N/A	N/A	N/A	N/A
Structural:	Scalene Design	Robert Macia, PA	26690	919.825.0295	rmacia@scalene-design.com
Precast:	N/A	N/A	N/A	N/A	N/A
Trusses:	N/A	N/A	N/A	N/A	N/A
Retaining:	N/A	N/A	N/A	N/A	N/A
Walls >5':	--	--	--	--	--
Other:	Sports field consultant	Dan Dodd	0000	803.981.4330	Dan@Fitfields.com

"Other" should include firms and individuals such as truss, pre-engineered, interior designers, etc.

2018 NC Building Code: [X] New Building [ ] Addition [ ] Prescriptive [ ] Repair [ ] Chapter 14 [ ] Shell/Core [ ] Phased Construction - Shell Core [ ] Alteration Level I [ ] Alteration Level II [ ] Alteration Level III [ ] 1st Time Interior Completions [ ] Historic Property [ ] Change of Use

2018 NC Existing Building Code: (check all that apply)

Constructed: (date)_____
Renovated: (date) _____
_____
_____
_____

Current Occupancy(s): (Ch.3): _____
Proposed Occupancy(s): (Ch.3): A-5

Occupancy Category (Table 1604.5): **Current:**_____ **Proposed:** II

BASIC BUILDING DATA

Construction Type: (Check all that apply) [ ] I-A [ ] I-B [ ] II-A [ ] II-B [ ] III-A [ ] III-B [ ] IV [X] V-A [X] V-B

Sprinklers: [X] No [ ] Partial [ ] NFPA 13 [ ] NFPA 13R [ ] NFPA 13D

Standpipes: [X] No Class [ ] I [ ] II [ ] III [ ] Wet [ ] Dry

Primary Fire District: [X] No [ ] Yes **Flood Hazard Area:** [X] No [ ] Yes

Special Inspections Required: [X] No [ ] Yes

GROSS BUILDING AREA

FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
1st Floor	0	1060	1060
TOTAL:	0	1060	1060

ALLOWABLE AREA

Primary Occupancy Classification(s):
Assembly: [ ] A-1 [ ] A-2 [ ] A-3 [ ] A -4 [X] A-5
Business: [ ]
Educational: [ ]
Factory [ ] F-1 Moderate [ ] F-2 Low
Hazardous: [ ] H-1 Detonate [ ] H-2 Deflagrate [ ] H-3 Combust [ ] H-4 Health [ ] H-5 HPM
Institutional: [ ] I-1 [ ] I-2 [ ] I-3 [ ] I-4
I-1 Condition [ ] 1 [ ] 2
I-2 [ ] 1 [ ] 2
I-3 Condition: [ ] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5
Mercantile: [ ]
Residential: [ ] R-1 [ ] R-2 [ ] R-3 [ ] R-4
Storage: [ ] S-1 Moderate [ ] S-2 Low [ ] High-piled [ ] Parking Garage [ ] Open [ ] Enclosed [ ] Repair Garage
Utility and Miscellaneous: [ ]

Accessory Occupancy Classification(s): _____
Incidental Uses (Table 509)**:** _____
This separation is not exempt as a Non-Separated Use (see exceptions).
Special Uses (Chapter 4 - List Code Sections): _____
Special Provisions (Chapter 5 - List Code Sections): _____
Mixed Occupancy: [X] No [ ] Yes Separation:____Hr. Exception:_____
[ ] Non-Separated Use (508.3)
[ ] Separated Use (508.4) - See below for area calculations for each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} \leq 1$$

$$\frac{0}{0} + \frac{0}{0} + \frac{0}{0} + \frac{0}{0} + \frac{0}{0} = 0 \qquad \leq 1$$

BOTH BUILDING AND TENANT MUST BE LISTED ON CHART BELOW

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2[4] AREA	(C) AREA FOR FRONTAGE INCREASE[1,5]	(D) ALLOWABLE AREA PER STORY OR UNLIMITED[2,3]
1	A-5: OUTDOOR	1060	UL	75%	UL
	STAGE				

[1] Frontage area increases from Section 506.2 are computed thus:
a. Perimeter which fronts a public way or open space having 20 feet minimum width = 10 ft (F)
b. Total Building Perimeter = 20 ft (P)
c. Ratio (F/P) = 0.5 (F/P)
d. W = Minimum width of public way = 0 ft (W)
[2] Unlimited area applicable under conditions of Section 507.
[3] Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2).
[4] The maximum area of open parking garages must comply with Table 406.5.4. The maximum area of air traffic control towers must comply with Table 412.3.1.
[5] Frontage increase is based on the unsprinklered area value in Table 506.2.

ALLOWABLE HEIGHT

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet (Table 504.3)	40'	20'-8"	
Building Height in Stories (Table 504.4)	1	1	1 STORY BASED ON S-1 OCCUPANCY

[1] Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING REQ'D*	RATING PROVIDED (W/ REDUCTION) *	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLIES	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED PENETRATION
Structural Frame, including columns, girders, trusses		0	0				
Bearing Walls							
Exterior							
North		0 HR	N/A				
East		0 HR	N/A				
West		0 HR	N/A				
South		0 HR	N/A				
Interior		0	N/A				
Nonbearing Walls and Partitions Exterior walls							
North		0 HR	N/A				
East		0 HR	N/A				
West		0 HR	N/A				
South		0 HR	N/A				
Interior walls and partitions		0	N/A				
Floor Construction Including supporting beams and joists		0	0				
Floor Ceiling Assembly		0	0				
Columns Supporting Floors		0	N/A				
Roof construction, including supporting beams and joists**		0	0				
Roof Ceiling Assembly		0	0				
Columns Supporting Roof		0	0				
Shaft Enclosures - Exit		N/A	N/A				
Shaft Enclosures - Other		N/A	N/A				
Corridor Separation		N/A	N/A				
Occupancy/Fire Barrier Separation		N/A	N/A				
Party/Fire Wall Separation		N/A	N/A				
Smoke Barrier Separation		N/A	N/A				
Smoke Partition		N/A	N/A				
Tenant/Dwelling Unit/Sleeping Unit Separation		N/A	N/A				
Incidental Use Separation		N/A	N/A				

* Indicate section number permitting reduction

PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
NORTH: >30'	UP, NS	NO LIMIT	OPEN STRUCTURE
SOUTH: >30'	UP, NS	NO LIMIT	OPEN STRUCTURE
EAST: >30'	UP, NS	NO LIMIT	OPEN STRUCTURE
WEST: >30'	UP, NS	NO LIMIT	OPEN STRUCTURE

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting:	[X] **Yes**	[ ] **No**
Exit Signs:	[ ] **Yes**	[X] **No**
Fire Alarm:	[ ] **Yes**	[X] **No**
Smoke Detection Systems:	[ ] **Yes**	[X] **No**
Carbon Monoxide Detection:	[ ] **Yes**	[X] **No**

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet # -- G112
[ ] Fire and/or smoke rated wall locations (Chapter 7)
[ ] Assumed and real property line locations (if not on the site plan)
[ ] Exterior wall opening area with respect to distance to assumed property lines (705.8)
[X] Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)
[X] Occupant loads for each area
[X] Exit access travel distances (1017)
[X] Common path of travel distances (1006.2.1 & 1006.3.2(1))
[X] Dead end lengths (1020.4)
[X] Clear exit widths for each exit door
[X] Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)
[X] Actual occupant load for each exit door
[ ] A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation
[ ] Location of doors with panic hardware (1010.1.10)
[ ] Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)
[ ] Location of doors with electromagnetic egress locks (1010.1.9.9)
[ ] Location of doors equipped with hold-open devices
[ ] Location of emergency escape windows (1030)
[ ] The square footage of each fire area (202)
[ ] The square footage of each smoke compartment for Occupancy Classification I-2 (407.5)
[ ] Note any code exceptions or table notes that may have been utilized regarding the items above

ACCESSIBLE DWELLING UNITS
(Section 1107)

TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED
0	0	0	0	0	0	0	0

ACCESSIBLE PARKING
(Section 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES		# OF ACCESSIBLE SPACES PROVIDED			TOTAL # ACCESSIBLE PROVIDED
	REQUIRED	PROVIDED	REGULAR WITH 5' ACCESS AISLE	VAN SPACES WITH 132" ACCESS AISLE	VAN SPACES WITH 8' ACCESS AISLE	
	0	0	0	0	0	0
	0	0	0	0	0	0
	0	0	0	0	0	0
	0	0	0	0	0	0
	0	0	0	0	0	0
TOTAL:	0	0	0	0	0	0

PLUMBING FIXTURE REQUIREMENTS
(TABLE 2902.1)

USE		WATERCLOSETS			URINALS	LAVATORIES			SHOWERS /TUBS	DRINKING FOUNTAINS	
		MALE	FEMALE	UNISEX		MALE	FEMALE	UNISEX		REGULAR	ACCESSIBLE
SPACE	EXIST'G	0	0	0	0	0	0	0	0	0	0
	NEW	0	0	0	0	0	0	0	0	0	0
	REQ'D	0	0	0	0	0	0	0	0	0	0

* SEE EVENT CENTER NOTES ON REQUIRED PLUMBING FIXTURES

SPECIAL APPROVALS

Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS,etc., describe below)

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MICHAEL D. SUTTON REGISTERED ARCHITECT 9953 NORTH CAROLINA RALEIGH, N.C.

REVISIONS

NO.	DATE	DESCRIPTION

PLAN INFORMATION

PROJECT NO.	TORLRPMP
FILENAME	TORLRPMP_CENTRAL_2020
CHECKED BY	MDS
DRAWN BY	EEW
SCALE	SEE VIEW
DATE	Issue Date

SHEET

AMPHITHEATER CODE SUMMARY

G141

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

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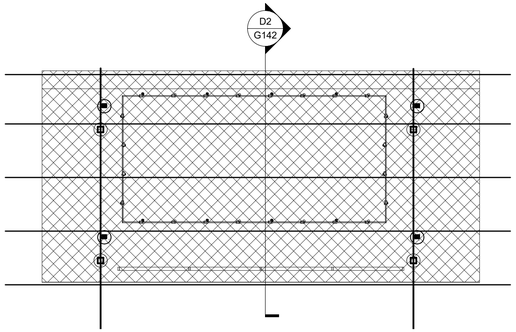
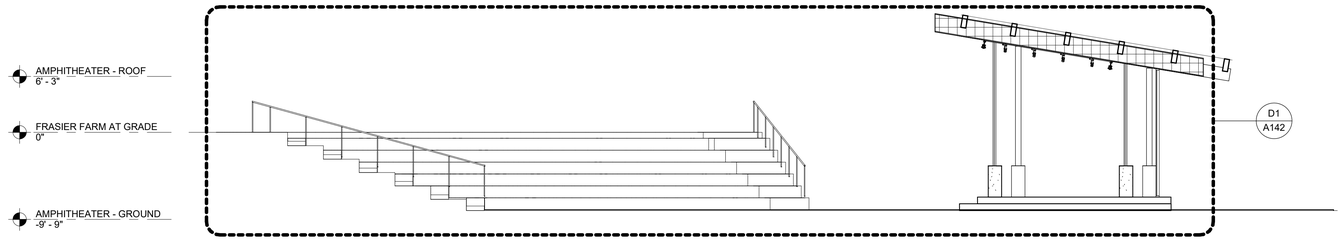


D1 AMPHITHEATER LIFE SAFETY PLAN - STRUCTURE

Scale: 1/8" = 1'-0"



D2 AMPHITHEATER LIFE SAFETY SECTION

Scale: 1/8" = 1'-0"

0 4 8 16 24 FEET

= OCCUPANTS
= EXIT WIDTH REQ.
= EXIT CAPACITY (OCCUPANTS)

DIRECTION OF EGRESS TRAVEL

INTERSECTION FOR CHOICE OF TWO PATHS

EGRESS EXITS

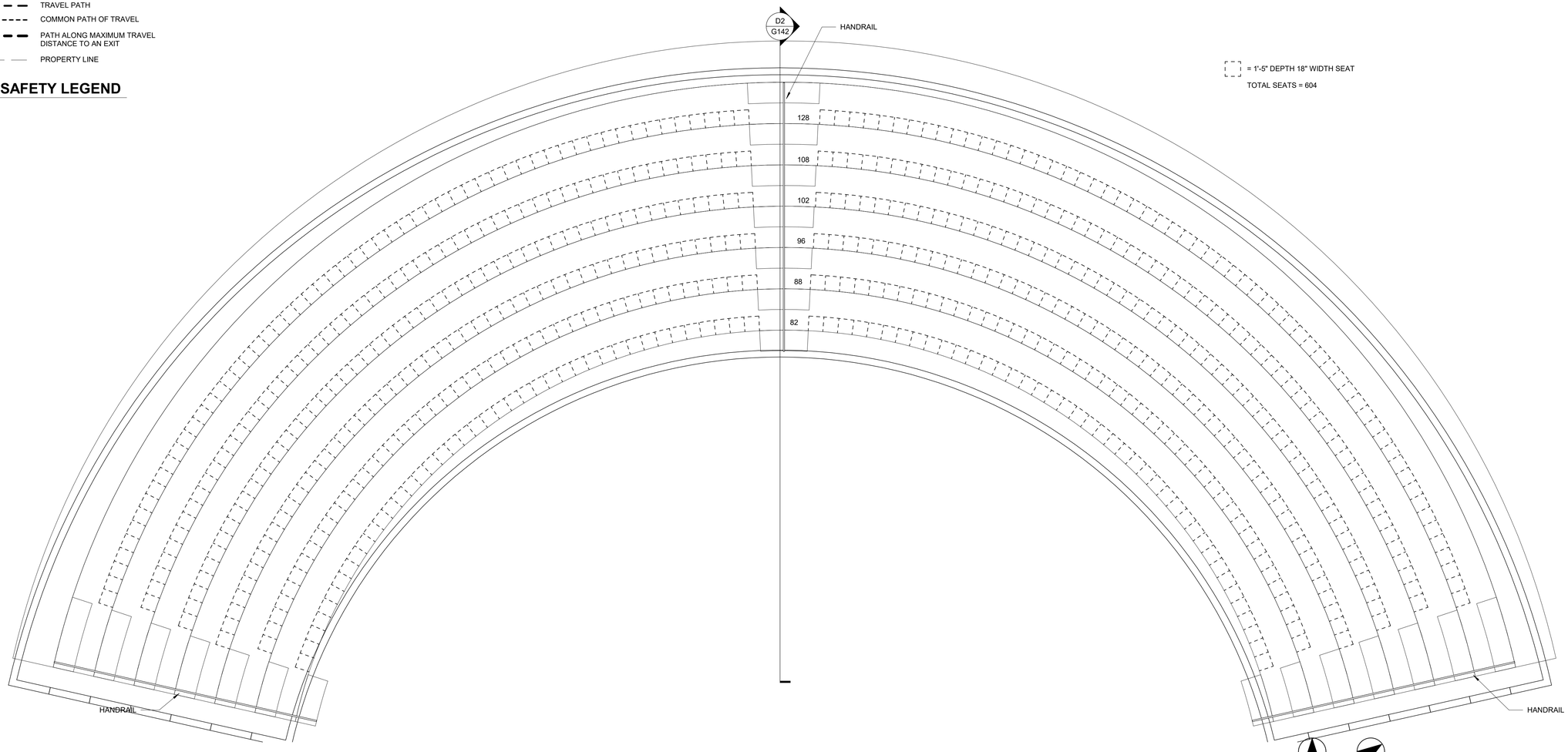
TRAVEL PATH

COMMON PATH OF TRAVEL

PATH ALONG MAXIMUM TRAVEL DISTANCE TO AN EXIT

PROPERTY LINE

LIFE SAFETY LEGEND



= 1'-5" DEPTH 18" WIDTH SEAT

TOTAL SEATS = 604

0 1 2 4 8 16

PLAN NORTH TRUE NORTH

A1 AMPHITHEATER LIFE SAFETY PLAN - SEATS

Scale: 3/16" = 1'-0"

5/14/2021 3:59:47 PM

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

McADAMS

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MICHAEL D. SUTTON REGISTERED ARCHITECT 9953 NORTH CAROLINA RALEIGH, N.C.

REVISIONS

NO.	DATE	DESCRIPTION

PLAN INFORMATION

PROJECT NO.	TORLRPMP
FILENAME	TORLRPMP_CENTRAL_2020
CHECKED BY	MDS
DRAWN BY	EEW
SCALE	SEE VIEW
DATE	Issue Date

SHEET

AMPHITHEATER LIFE SAFETY PLAN

G142

1-HR RATED FIRE BARRIER (NONE)

2-HR RATED FIRE BARRIER (NONE)

NOTE: LIMITING HEIGHTS MAY VARY BY PROJECT REQUIREMENTS FOR LOADING DEFLECTION CRITERIA.

SEE ALSO TYPICAL BRIDGING ATTACHMENT DETAILS. ATTACH GWB TO METAL STUDS WITH #6 SCREWS MIN. @ 12" O.C. MAX. AND AS OTHERWISE REQUIRED BY CODE.

SEE ALSO UL DETAILS FOR BALANCE OF INFORMATION FOR ASSOCIATED WALL TYPES.

M60A

- M - METAL
  W - WOOD
  B - BLOCK (CMU)
  C - CONCRETE
  CR - CLEAN ROOM
  SH - SHAFTWALL
- MODIFIER
- FIRE RATING
- STUD / BLOCK SIZE

2A WINDOW / STOREFRONT / CURTAINWALL TAG

DOOR TAG TO BE MODIFIED

NOTE: SEE ALSO WALL TYPE DETAILS, DOOR SCHEDULE, DOOR TYPES, AND DOOR FRAME & JAMB DETAILS, WINDOW TYPES & DETAILS.

DIMENSION TO NEW WALL FINISH SURFACE — 9' - 1"

MAXIMUM DIMENSION ALLOWED (MAY BE LESS) — 9' - 1"

MINIMUM DIMENSION ALLOWED (MAY BE MORE) — MIN 9' - 1"

EXACT DIMENSION BETWEEN FINAL FINISHED SURFACES — CLR 9' - 1"

TARGET DIMENSION WHICH MAY NOT BE ACHIEVED IN FIELD - BE AWARE — VERIFY

ALIGN THESE FINISHED SURFACES

PLAN KEY NOTE. "SEE PLAN KEY NOTES" ON PLANS FOR DESCRIPTIONS. — #

FLOOR DRAIN LOCATION. SEE PLUMBING DRAWINGS. — FD

FLOOR SINK LOCATION. SEE PLUMBING DRAWINGS. — FS

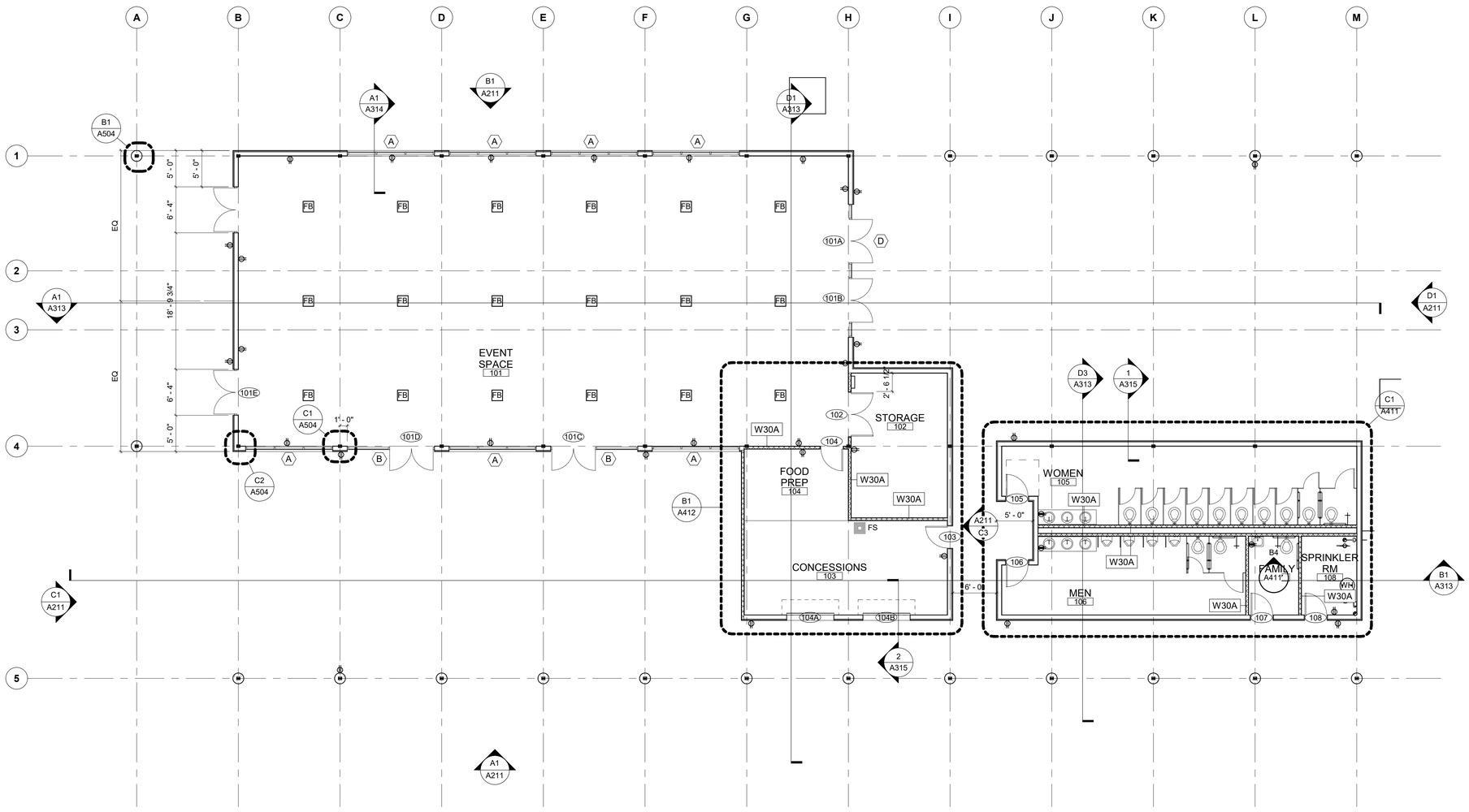
UTILITY SINK WITH FRP SURROUND TO 6 FT AFF. SEE PLUMBING DRAWINGS.

ADA COMPLIANT DRINKING FOUNTAIN. SEE PLUMBING DRAWINGS.

FIRE EXTINGUISHER WITH HIGHEST OPERABLE CONTROL AT 44" A.F.F. SEE ALSO GENERAL NOTES.
FE(B) = WALL HUNG BOTTLE FIRE EXTINGUISHER,
FEC(S) = SEMI-RECESSED FIRE EXTINGUISHER,
FEC(R) = FULLY RECESSED FIRE EXTINGUISHER
FEC(W) = WALL SURFACE MOUNTED FIRE EXTINGUISHER

FE(B) FEC(S) FEC(R) FEC(W)

LEGEND



0 4 8 16 24 FEET

PLAN NORTH TRUE NORTH

A1 EVENT CENTER - FLOOR PLAN

Scale: 1/8" = 1'-0"

5/14/2021 3:58:16 PM

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DATE	Issue Date

SHEET

EVENT CENTER FLOOR PLAN

A111

CEILING TAG

GYP 1 / 10' - 0" AFF

CEILING TYPE. SEE FINISH SCHEDULE.

CEILING HEIGHT FROM FINISHED FLOOR

OPEN TO STRUCTURE ABOVE.

DESIGNATES NEW WALL OR FIRE BARRIER. SEE FLOOR PLAN FOR WALL TYPES.

NEW CEILING GRID AND TILE. SEE FINISH SCHEDULE.

NEW GYPSUM WALL BOARD CEILING. SEE FINISH SCHEDULE

SPRINKLER HEAD

HVAC SUPPLY GRILL DIFFUSER. SEE MECHANICAL DRAWINGS.

HVAC RETURN GRILL. SEE MECHANICAL DRAWINGS.

1'X4' LED LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS.

2'X4' LED LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS.

WALL SCONCE LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS.

WALL WASH LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS.

RECESSED LED DOWN LIGHT. SEE ELECTRICAL.

LED 12" GLOBE PENDANT LIGHT FIXTURE. SEE CEILING DETAILS. SEE ELECTRICAL DRAWINGS.

3" X 4'-0" RECESSED LED LINEAR LIGHT FIXTURE. SEE CEILING DETAILS. SEE ELECTRICAL DRAWINGS.

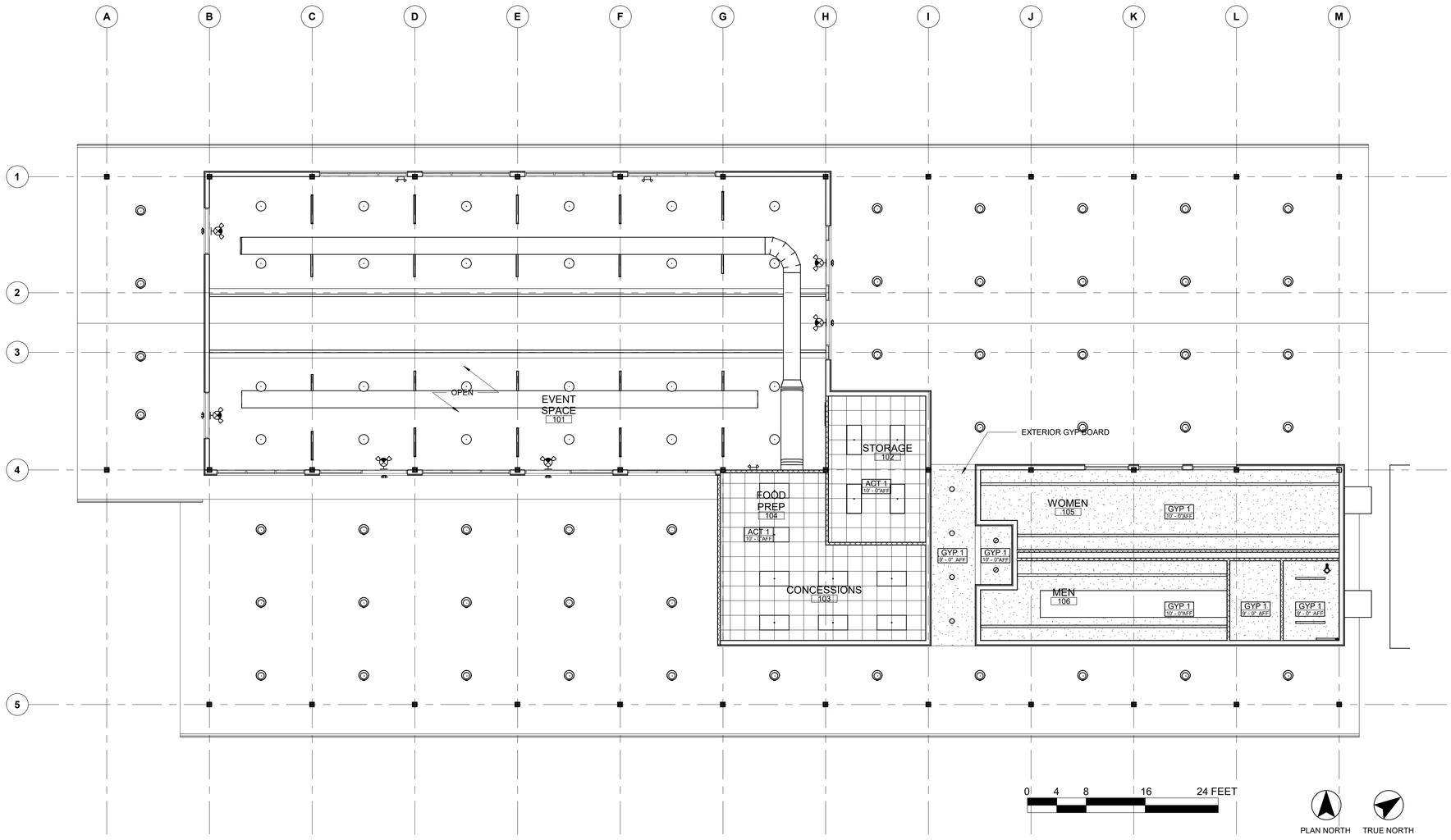
NEW CEILING MOUNTED EXIT LIGHT FIXTURE AND TYPE WITH DIRECTIONAL ARROWS. SEE ELECTRICAL DRAWINGS.

NEW WALL MOUNTED EXIT LIGHT FIXTURE AND TYPE WITH DIRECTIONAL ARROWS. SEE ELECTRICAL DRAWINGS.

NEW WALL MOUNTED EXIT LIGHT FIXTURE AND TYPE WITH DIRECTIONAL ARROWS. SEE ELECTRICAL DRAWINGS.

2 HEADER ABOVE. SEE WALL TYPES.

RCP LEGEND



A1 EVENT CENTER REFLECTED CEILING PLAN

Scale: 1/8" = 1'-0"

5/14/2021 3:58:18 PM

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EVENT CENTER REFLECTED CEILING PLAN

A112

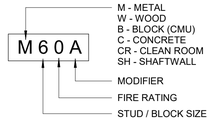
1-HR RATED FIRE BARRIER (NONE)

2-HR RATED FIRE BARRIER (NONE)

NOTE: LIMITING HEIGHTS MAY VARY BY PROJECT REQUIREMENTS FOR LOADING DEFLECTION CRITERIA.

SEE ALSO TYPICAL BRIDGING ATTACHMENT DETAILS. ATTACH GWB TO METAL STUDS WITH #6 SCREWS MIN. @ 12" O.C. MAX. AND AS OTHERWISE REQUIRED BY CODE.

SEE ALSO UL DETAILS FOR BALANCE OF INFORMATION FOR ASSOCIATED WALL TYPES.



2A WINDOW / STOREFRONT / CURTAINWALL TAG

DOOR TAG TO BE MODIFIED

NOTE: SEE ALSO WALL TYPE DETAILS, DOOR SCHEDULE, DOOR TYPES, AND DOOR FRAME & JAMB DETAILS, WINDOW TYPES & DETAILS.

DIMENSION TO NEW WALL FINISH SURFACE — 9' - 1"

MAXIMUM DIMENSION ALLOWED (MAY BE LESS) — 9' - 1" MAX

MINIMUM DIMENSION ALLOWED (MAY BE MORE) — 9' - 1" MIN

EXACT DIMENSION BETWEEN FINAL FINISHED SURFACES — 9' - 1" CLR

TARGET DIMENSION WHICH MAY NOT BE ACHIEVED IN FIELD - BE AWARE — 9' - 1" VERIFY

ALIGN THESE FINISHED SURFACES

PLAN KEY NOTE. "SEE PLAN KEY NOTES" ON PLANS FOR DESCRIPTIONS. #

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FLOOR SINK LOCATION. SEE PLUMBING DRAWINGS. FS

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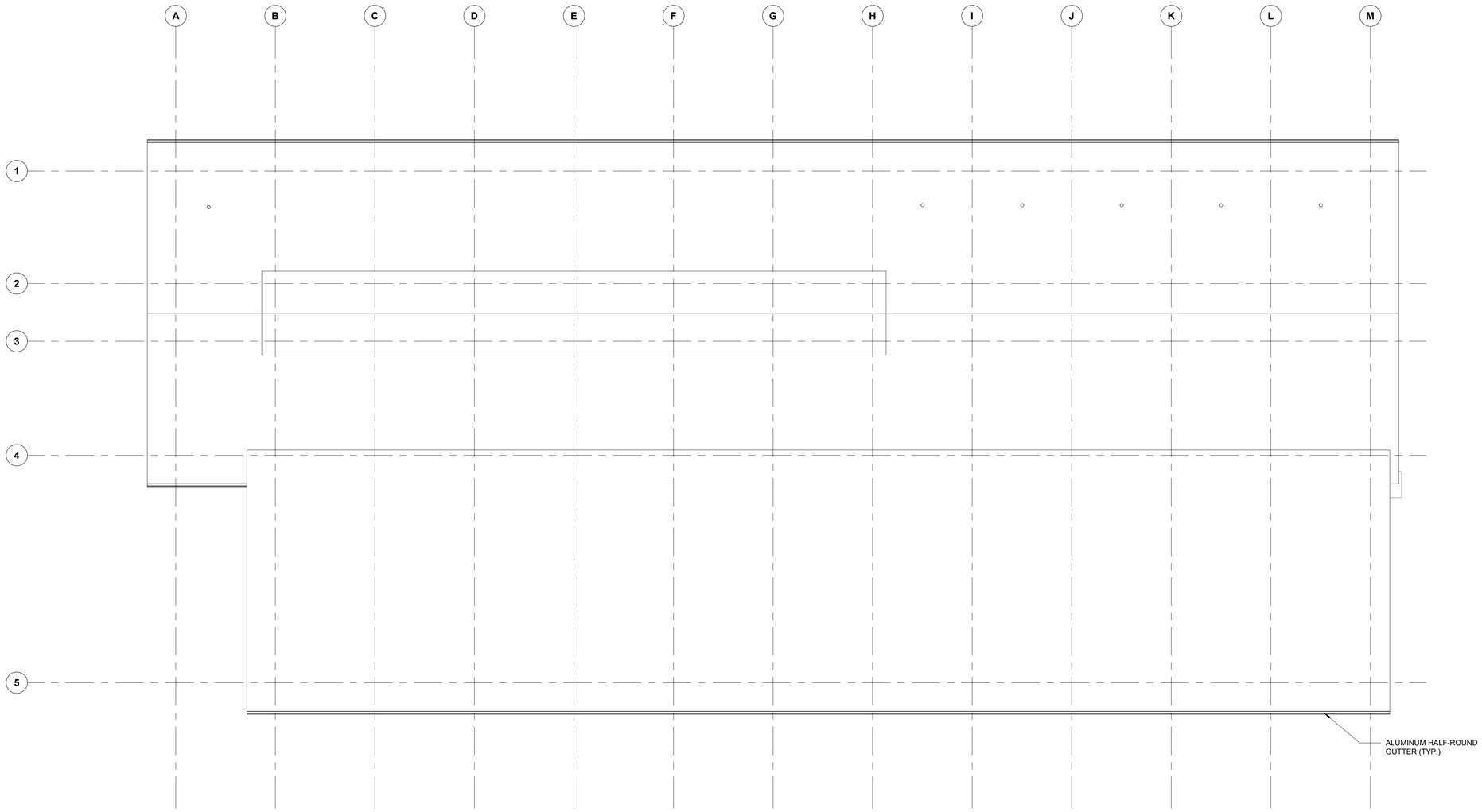
FE(B) FEC(S) FEC(R) FEC(W)

LEGEND



0 4 8 16 24 FEET

PLAN NORTH TRUE NORTH

A1 EVENT CENTER - ROOF PLAN

Scale: 1/8" = 1'-0"

5/14/2021 3:58:18 PM

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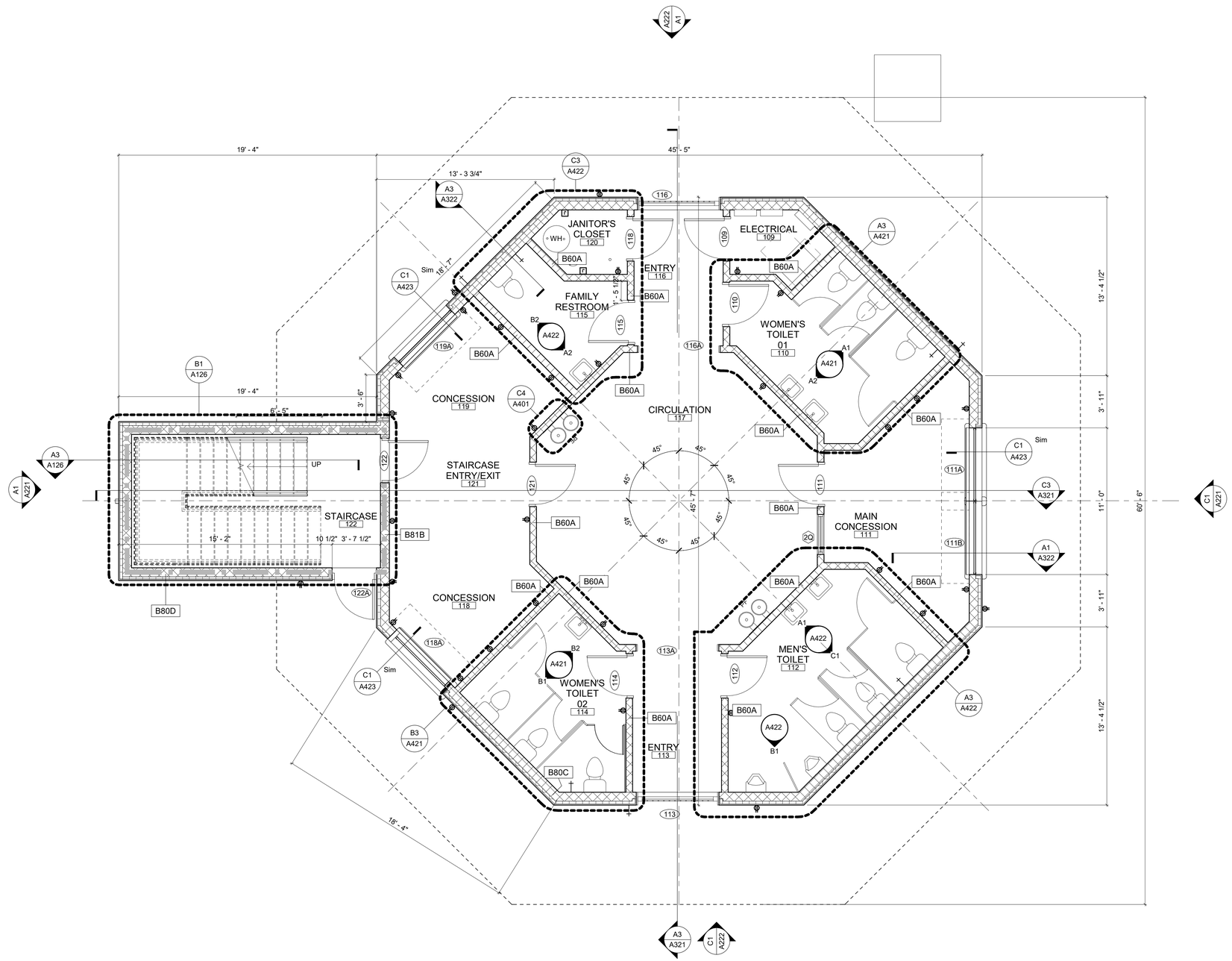
SHEET

EVENT CENTER ROOF PLAN

A113



A2 OCTAGON - FIRST FLOOR

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

5/14/2021 3:58:20 PM

1-HR RATED FIRE BARRIER

2-HR RATED FIRE BARRIER (NONE)

NOTE: LIMITING HEIGHTS MAY VARY BY PROJECT REQUIREMENTS FOR LOADING DEFLECTION CRITERIA.

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SEE ALSO UL DETAILS FOR BALANCE OF INFORMATION FOR ASSOCIATED WALL TYPES.

M60A
- M - METAL / W - WOOD / B - BLOCK (CMU) / C - CONCRETE / CR - CLEAN ROOM / SH - SHAFTWALL
- MODIFIER
- FIRE RATING
- STUD / BLOCK SIZE

2A WINDOW / STOREFRONT / CURTAINWALL TAG

XXX DOOR TAG TO BE MODIFIED

NOTE: SEE ALSO WALL TYPE DETAILS, DOOR SCHEDULE, DOOR TYPES, AND DOOR FRAME & JAMB DETAILS, WINDOW TYPES & DETAILS.

DIMENSION TO NEW WALL FINISH SURFACE — 9' - 1"

MAXIMUM DIMENSION ALLOWED (MAY BE LESS) — 9' - 1" MAX

MINIMUM DIMENSION ALLOWED (MAY BE MORE) — 9' - 1" MIN

EXACT DIMENSION BETWEEN FINAL FINISHED SURFACES — 9' - 1" CLR

TARGET DIMENSION WHICH MAY NOT BE ACHIEVED IN FIELD - BE AWARE — VERIFY

ALIGN THESE FINISHED SURFACES

PLAN KEY NOTE. "SEE PLAN KEY NOTES" ON PLANS FOR DESCRIPTIONS. — #

FLOOR DRAIN LOCATION. SEE PLUMBING DRAWINGS. — FD

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FEC(W) = WALL SURFACE MOUNTED FIRE EXTINGUISHER

FE(B) / FEC(S) / FEC(R) / FEC(W)

LEGEND

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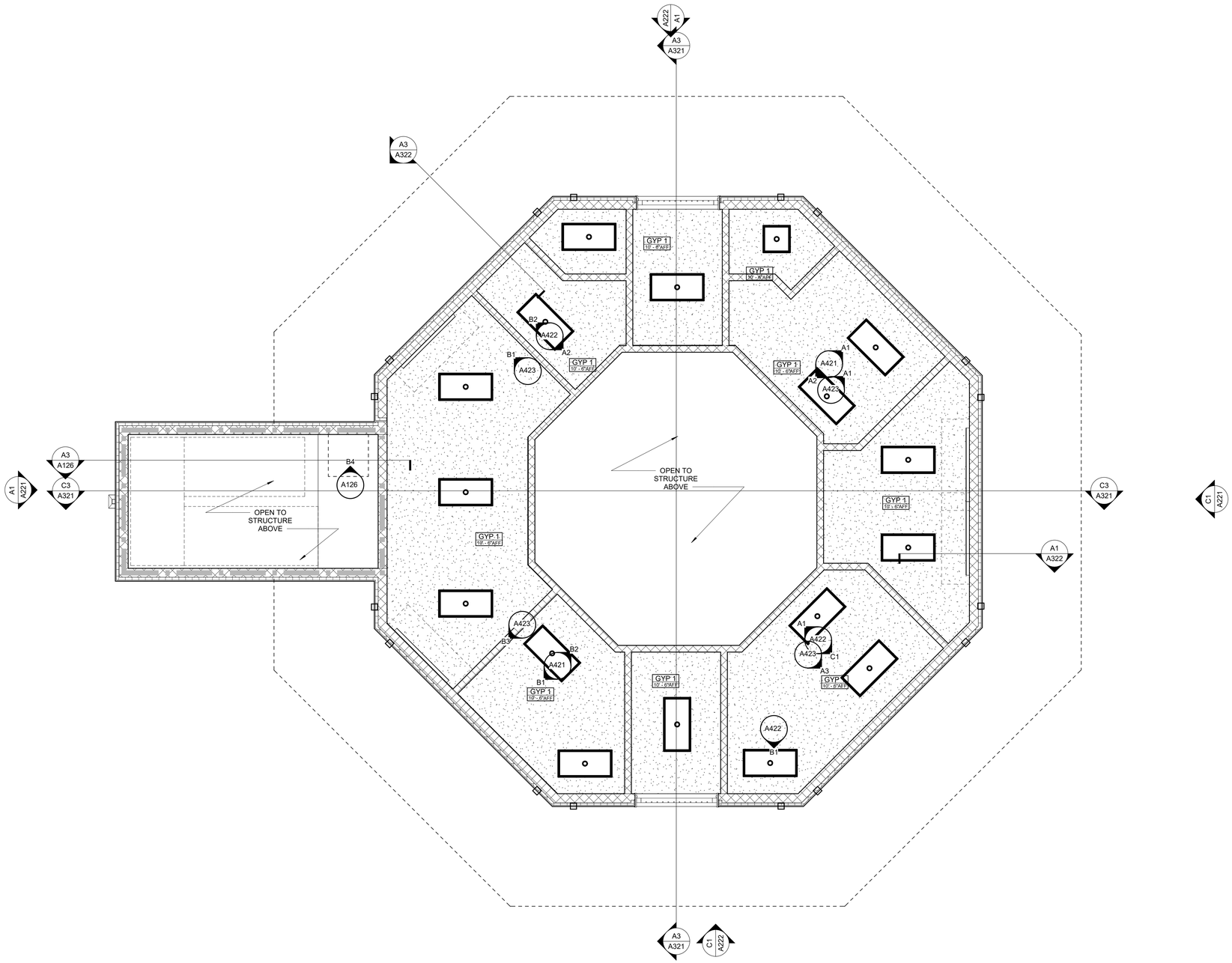
SHEET

OCTAGON FIRST FLOOR PLAN

A121



0 1 2 4 8 16

PLAN NORTH TRUE NORTH

A1 OCTAGON FIRST FLOOR REFLECTED CEILING PLAN

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

5/14/2021 3:58:21 PM

CEILING TAG
GYP 1 / 10' - 0" AFF — CEILING TYPE. SEE FINISH SCHEDULE. CEILING HEIGHT FROM FINISHED FLOOR
OPEN TO STRUCTURE ABOVE.

DESIGNATES NEW WALL OR FIRE BARRIER. SEE FLOOR PLAN FOR WALL TYPES.

NEW CEILING GRID AND TILE. SEE FINISH SCHEDULE.

NEW GYPSUM WALL BOARD CEILING. SEE FINISH SCHEDULE

SPRINKLER HEAD

HVAC SUPPLY GRILL DIFFUSER. SEE MECHANICAL DRAWINGS.

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NEW WALL MOUNTED EXIT LIGHT FIXTURE AND TYPE WITH DIRECTIONAL ARROWS. SEE ELECTRICAL DRAWINGS.

2 HEADER ABOVE. SEE WALL TYPES.

RCP LEGEND

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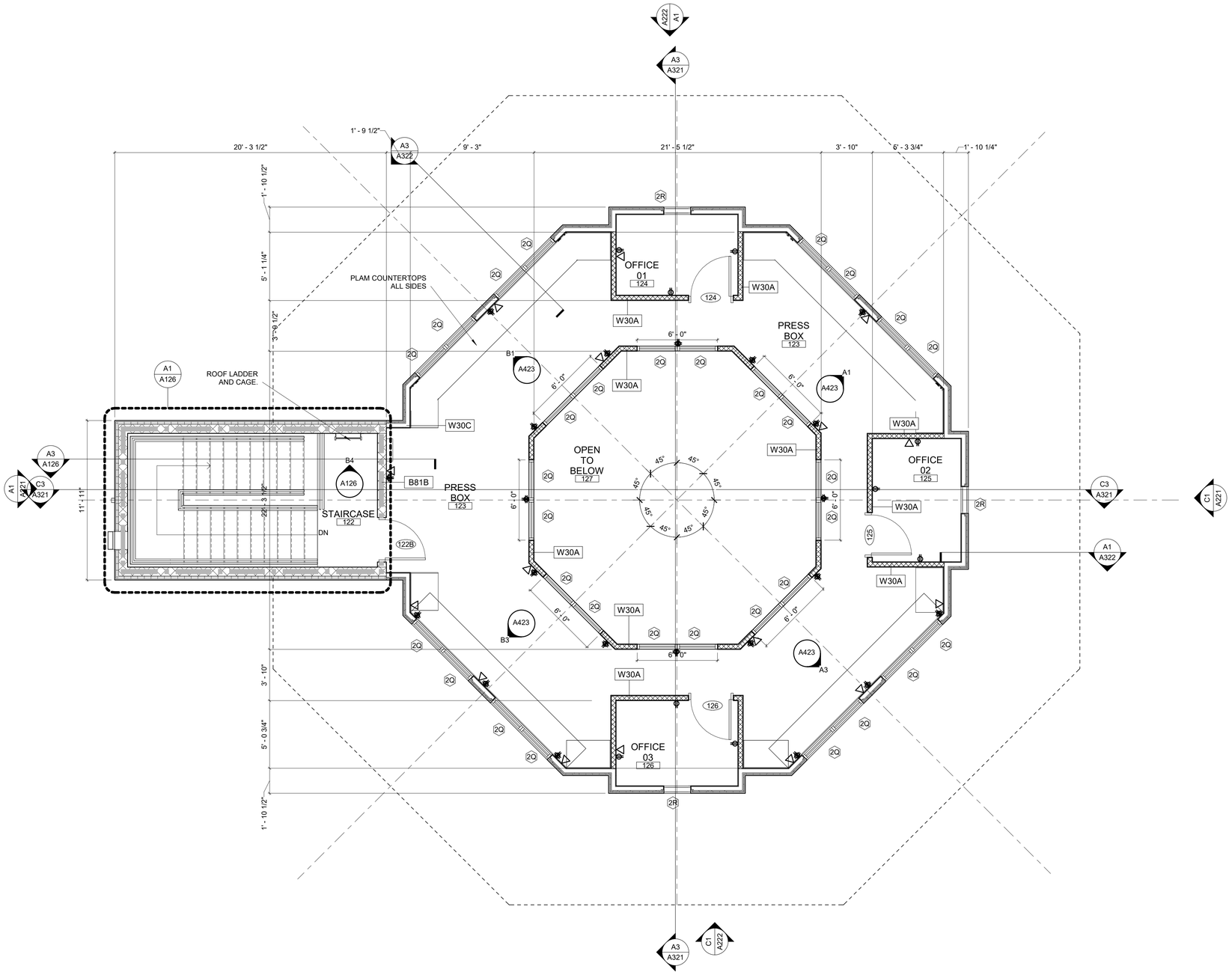
OCTAGON FIRST FLOOR REFLECTED CEILING PLAN

A122



1-HR RATED FIRE BARRIER

2-HR RATED FIRE BARRIER (NONE)

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ALIGN THESE FINISHED SURFACES	

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FE(B)
FEC(S)
FEC(R)
FEC(W)

LEGEND

A2 OCTAGON - SECOND FLOOR

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

5/14/2021 3:58:22 PM

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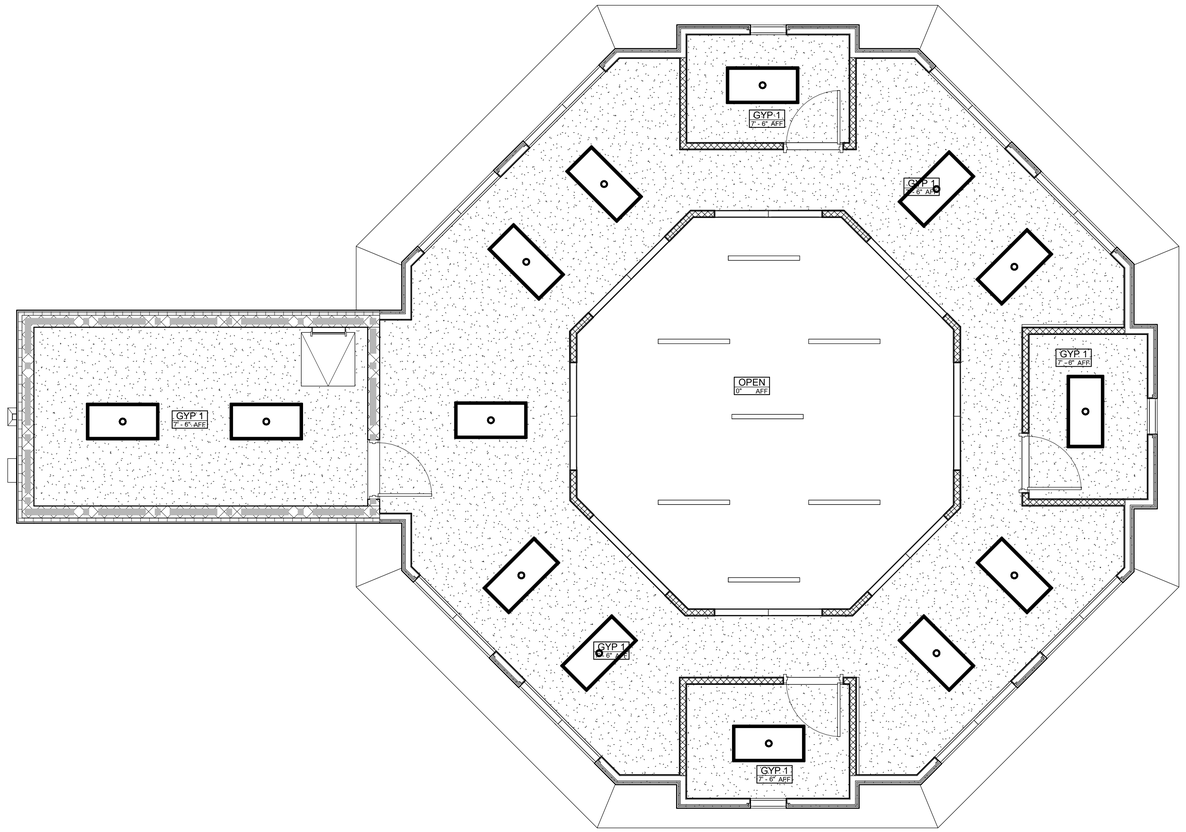
OCTAGON SECOND FLOOR PLAN

A123



CEILING TAG
GYP 1 / 10' - 0" AFF — CEILING TYPE. SEE FINISH SCHEDULE. CEILING HEIGHT FROM FINISHED FLOOR
OPEN TO STRUCTURE ABOVE.

DESIGNATES NEW WALL OR FIRE BARRIER. SEE FLOOR PLAN FOR WALL TYPES.

NEW CEILING GRID AND TILE. SEE FINISH SCHEDULE.

NEW GYPSUM WALL BOARD CEILING. SEE FINISH SCHEDULE

SPRINKLER HEAD

HVAC SUPPLY GRILL DIFFUSER. SEE MECHANICAL DRAWINGS.

HVAC RETURN GRILL. SEE MECHANICAL DRAWINGS.

1'X4' LED LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS.

2'X4' LED LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS.

WALL SCONCE LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS.

WALL WASH LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS.

RECESSED LED DOWN LIGHT. SEE ELECTRICAL.

LED 12" GLOBE PENDANT LIGHT FIXTURE. SEE CEILING DETAILS. SEE ELECTRICAL DRAWINGS.

3" X 4'-0" RECESSED LED LINEAR LIGHT FIXTURE. SEE CEILING DETAILS. SEE ELECTRICAL DRAWINGS.

NEW CEILING MOUNTED EXIT LIGHT FIXTURE AND TYPE WITH DIRECTIONAL ARROWS. SEE ELECTRICAL DRAWINGS.

NEW WALL MOUNTED EXIT LIGHT FIXTURE AND TYPE WITH DIRECTIONAL ARROWS. SEE ELECTRICAL DRAWINGS.

NEW WALL MOUNTED EXIT LIGHT FIXTURE AND TYPE WITH DIRECTIONAL ARROWS. SEE ELECTRICAL DRAWINGS.

2 HEADER ABOVE. SEE WALL TYPES.

RCP LEGEND

0 1 2 4 8 16

PLAN NORTH TRUE NORTH

A1 OCTAGON SECOND FLOOR REFLECTED CEILING PLAN

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

5/14/2021 3:58:23 PM

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REVISIONS

NO.	DATE	DESCRIPTION

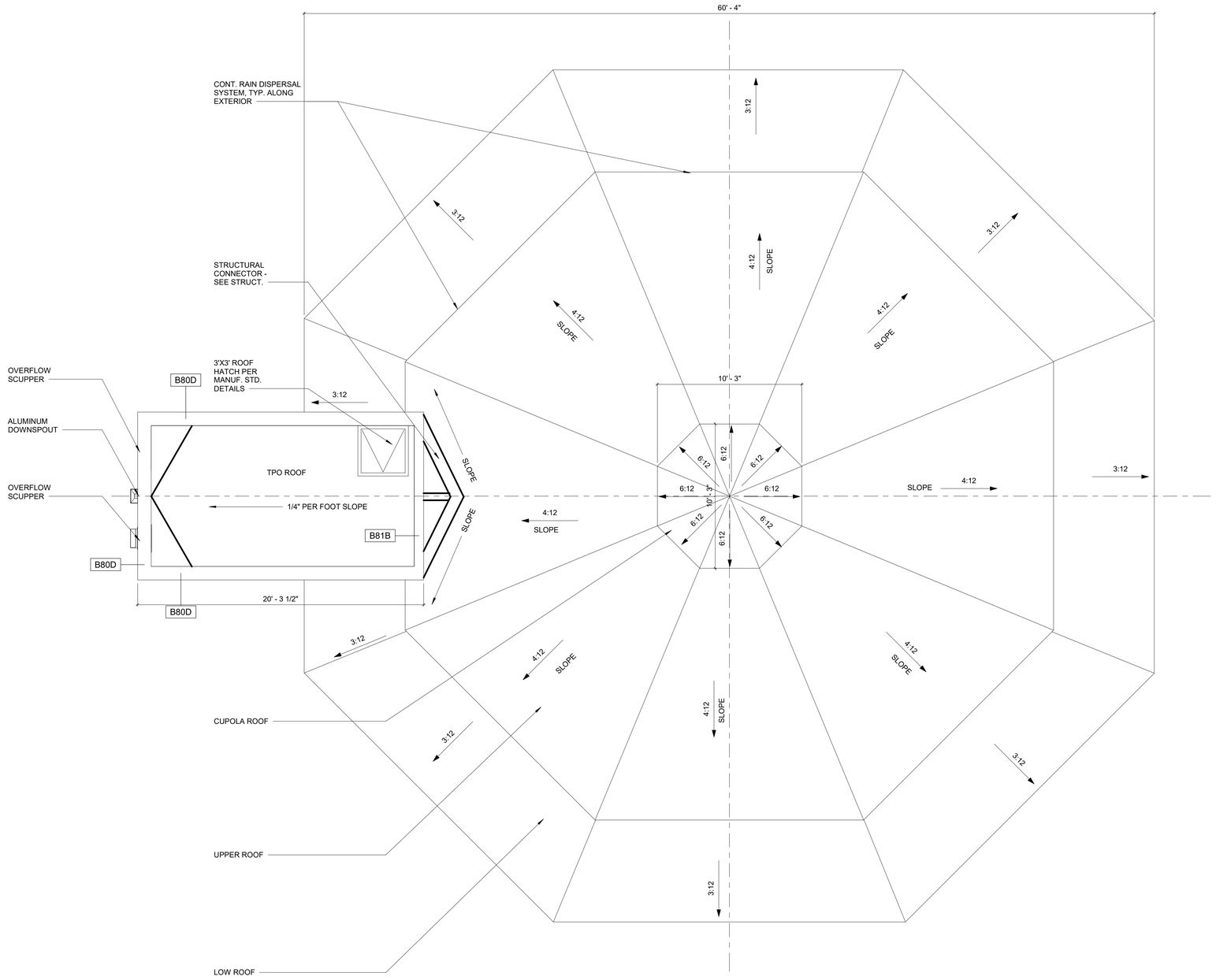
PLAN INFORMATION

PROJECT NO.	TORLRPMP
FILENAME	TORLRPMP_CENTRAL_2020
CHECKED BY	MDS
DRAWN BY	KD
SCALE	SEE VIEW
DATE	Issue Date

SHEET

OCTAGON SECOND FLOOR REFLECTED CEILING PLAN

A124



0 1 2 4 8 16

PLAN NORTH TRUE NORTH

A1 OCTAGON - ROOF PLAN

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

5/14/2021 3:58:24 PM

1-HR RATED FIRE BARRIER

2-HR RATED FIRE BARRIER (NONE)

NOTE: LIMITING HEIGHTS MAY VARY BY PROJECT REQUIREMENTS FOR LOADING DEFLECTION CRITERIA.

SEE ALSO TYPICAL BRIDGING ATTACHMENT DETAILS. ATTACH GWB TO METAL STUDS WITH #6 SCREWS MIN. @ 12" O.C. MAX. AND AS OTHERWISE REQUIRED BY CODE.

SEE ALSO UL DETAILS FOR BALANCE OF INFORMATION FOR ASSOCIATED WALL TYPES.

M60A

M - METAL
W - WOOD
B - BLOCK (CMU)
C - CONCRETE
CR - CLEAN ROOM
SH - SHAFTWALL
MODIFIER
FIRE RATING
STUD / BLOCK SIZE

2A WINDOW / STOREFRONT / CURTAINWALL TAG

XXX DOOR TAG TO BE MODIFIED

NOTE: SEE ALSO WALL TYPE DETAILS, DOOR SCHEDULE, DOOR TYPES, AND DOOR FRAME & JAMB DETAILS, WINDOW TYPES & DETAILS.

DIMENSION TO NEW WALL FINISH SURFACE 9' - 1"

MAXIMUM DIMENSION ALLOWED (MAY BE LESS) 9' - 1" MAX

MINIMUM DIMENSION ALLOWED (MAY BE MORE) 9' - 1" MIN

EXACT DIMENSION BETWEEN FINAL FINISHED SURFACES 9' - 1" CLR

TARGET DIMENSION WHICH MAY NOT BE ACHIEVED IN FIELD - BE AWARE 9' - 1" VERIFY

ALIGN THESE FINISHED SURFACES

PLAN KEY NOTE. "SEE PLAN KEY NOTES" ON PLANS FOR DESCRIPTIONS. #

FLOOR DRAIN LOCATION. SEE PLUMBING DRAWINGS. FD

UTILITY SINK WITH FRP SURROUND TO 6 FT AFF. SEE PLUMBING DRAWINGS.

ADA COMPLIANT DRINKING FOUNTAIN. SEE PLUMBING DRAWINGS.

FIRE EXTINGUISHER WITH HIGHEST OPERABLE CONTROL AT 44" A.F.F. SEE ALSO GENERAL NOTES.
FE(B) = WALL HUNG BOTTLE FIRE EXTINGUISHER,
FEC(S) = SEMI-RECESSED FIRE EXTINGUISHER,
FEC(R) = FULLY RECESSED FIRE EXTINGUISHER
FEC(W) = WALL SURFACE MOUNTED FIRE EXTINGUISHER

FE(B) FEC(S) FEC(R) FEC(W)

LEGEND

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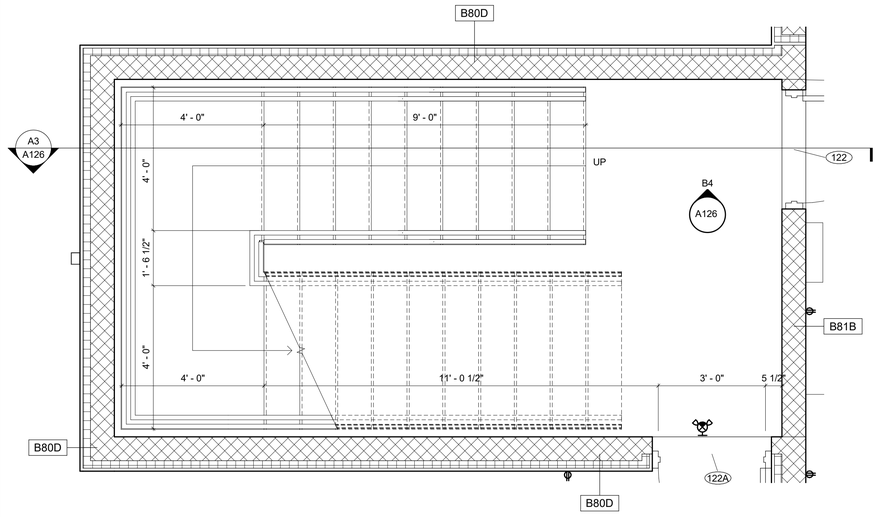
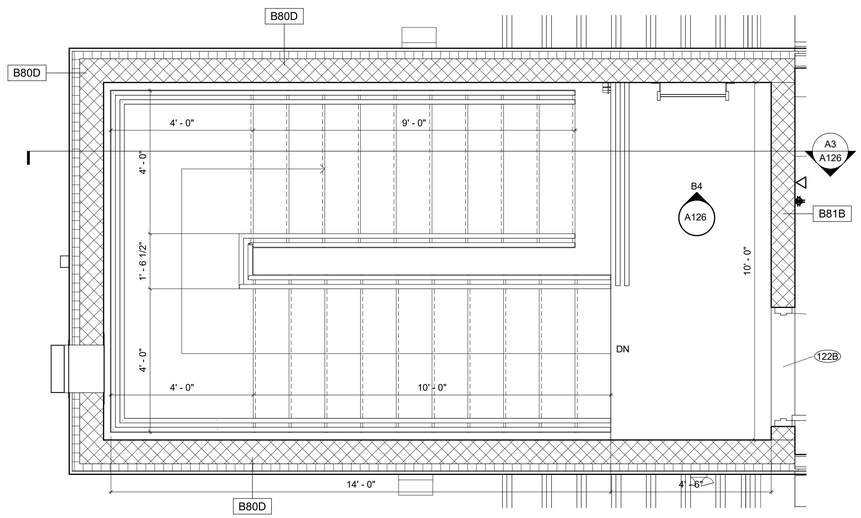
OCTAGON ROOF PLAN

A125



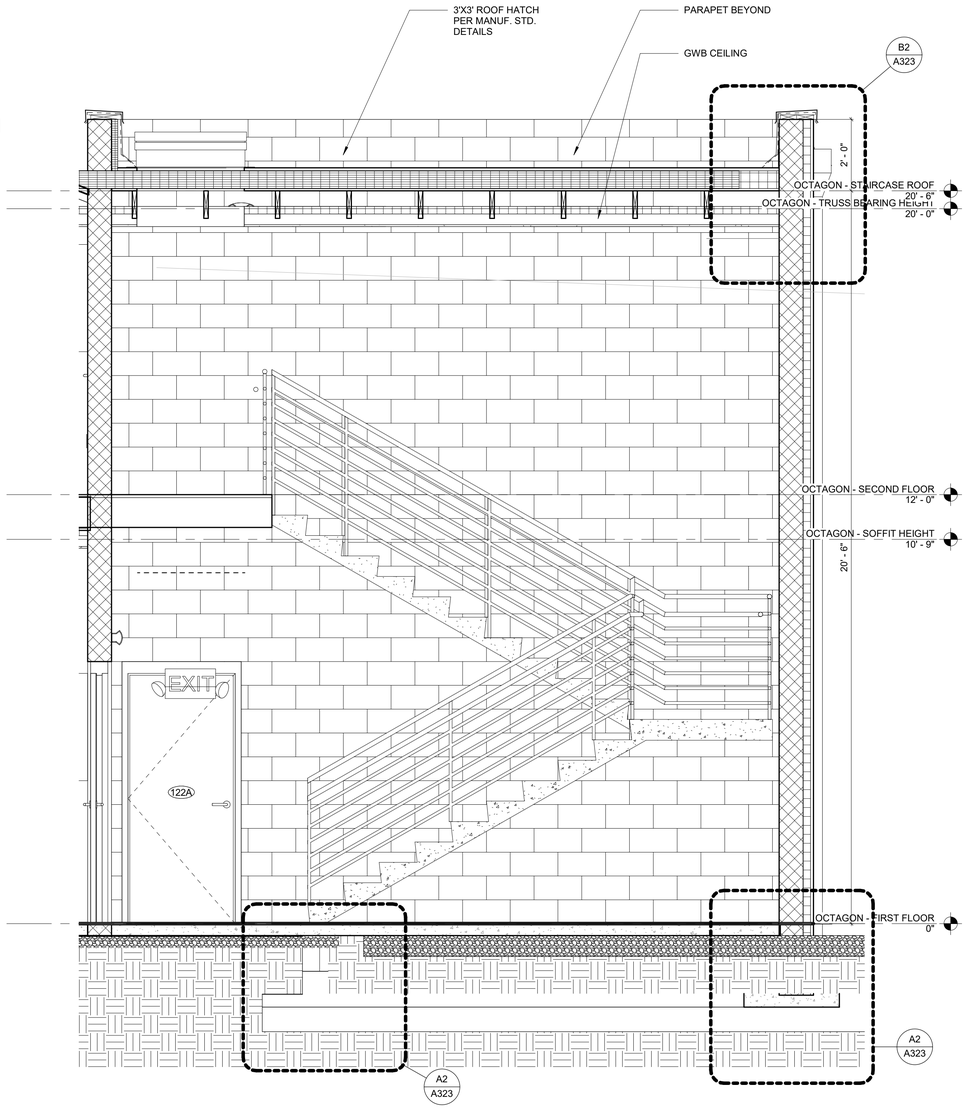
B1 OCTAGON - FIRST FLOOR STAIRCASE - ENLARGED PLAN

Scale: 1/2" = 1'-0"



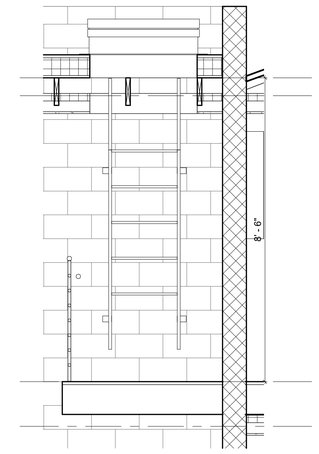
A1 OCTAGON - SECOND FLOOR STAIRCASE - ENLARGED PLAN

Scale: 1/2" = 1'-0"



A3 OCTAGON - STAIR SECTION

Scale: 1/2" = 1'-0"



B4 OCTAGON - ROOF LADDER

Scale: 1/2" = 1'-0"

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1 REVISIONS

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OCTAGON ENLARGED STAIRCASE PLANS & SECTION

A126

1-HR RATED FIRE BARRIER

2-HR RATED FIRE BARRIER

2A WINDOW / STOREFRONT / CURTAINWALL TAG

DOOR TAG TO BE MODIFIED

NOTE: SEE ALSO WALL TYPE DETAILS, DOOR SCHEDULE, DOOR TYPES, AND DOOR FRAME & JAMB DETAILS, WINDOW TYPES & DETAILS.

NOTE: LIMITING HEIGHTS MAY VARY BY PROJECT REQUIREMENTS FOR LOADING DEFLECTION CRITERIA.

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M60A

- M - METAL
- W - WOOD
- B - BLOCK (CMU)
- C - CONCRETE
- CR - CLEAN ROOM
- SH - SHAFTWALL

MODIFIER

FIRE RATING

STUD / BLOCK SIZE

DIMENSION TO NEW WALL FINISH SURFACE — 9' - 1"

MAXIMUM DIMENSION ALLOWED (MAY BE LESS) — 9' - 1"

MINIMUM DIMENSION ALLOWED (MAY BE MORE) — MAX 9' - 1"

EXACT DIMENSION BETWEEN FINAL FINISHED SURFACES — MIN 9' - 1"

TARGET DIMENSION WHICH MAY NOT BE ACHIEVED IN FIELD - BE AWARE — CLR 9' - 1"

ALIGN THESE FINISHED SURFACES — VERIFY

PLAN KEY NOTE. "SEE PLAN KEY NOTES" ON PLANS FOR DESCRIPTIONS. — #

FLOOR DRAIN LOCATION. SEE PLUMBING DRAWINGS. — FD

UTILITY SINK WITH FRP SURROUND TO 6 FT AFF. SEE PLUMBING DRAWINGS.

ADA COMPLIANT DRINKING FOUNTAIN. SEE PLUMBING DRAWINGS.

FIRE EXTINGUISHER WITH HIGHEST OPERABLE CONTROL AT 44" A.F.F. SEE ALSO GENERAL NOTES.
FE(B) = WALL HUNG BOTTLE FIRE EXTINGUISHER,
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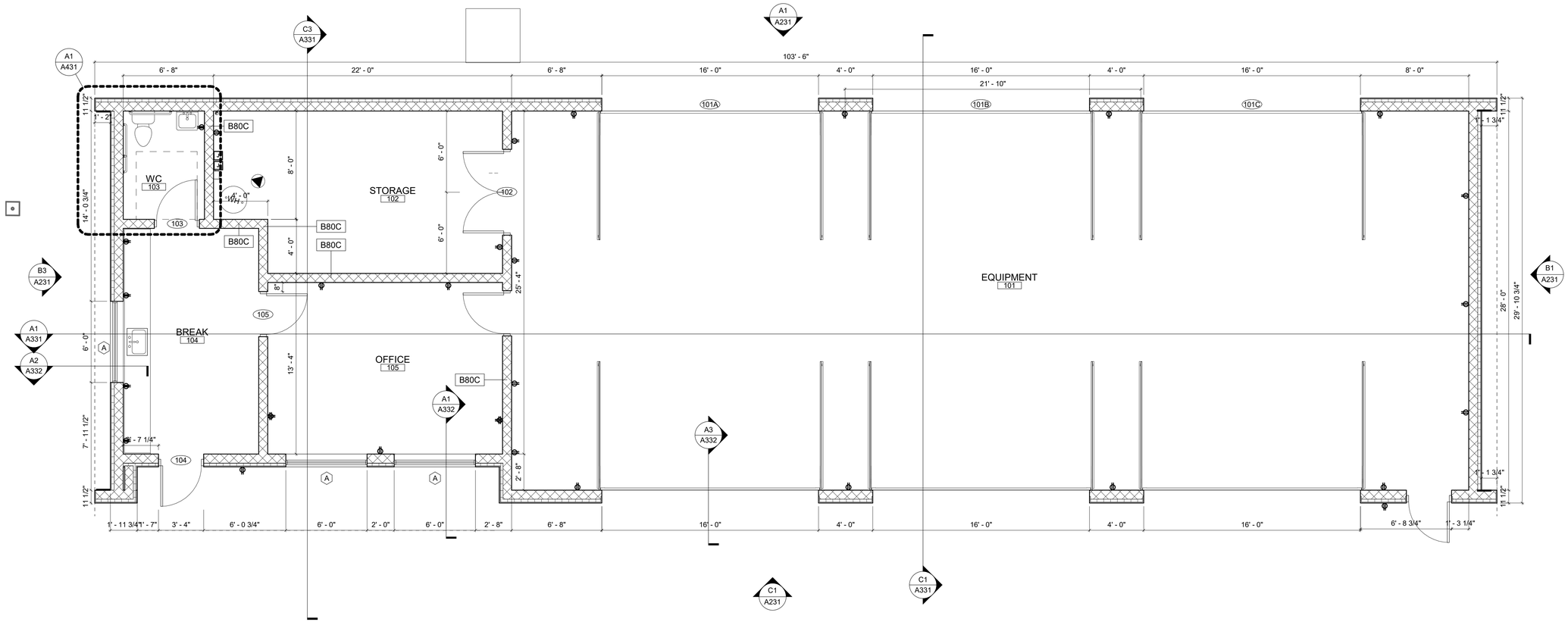
FEC(R) = FULLY RECESSED FIRE EXTINGUISHER
FEC(W) = WALL SURFACE MOUNTED FIRE EXTINGUISHER

FE(B) FEC(S) FEC(R) FEC(W)

LEGEND



0 1 2 4 8 16

PLAN NORTH TRUE NORTH

A1 MAINTENANCE - FLOOR PLAN

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

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MAINTENANCE FLOOR PLAN

A131

CEILING TAG

GYP 1 / 10' - 0" AFF

CEILING TYPE. SEE FINISH SCHEDULE.

CEILING HEIGHT FROM FINISHED FLOOR

OPEN TO STRUCTURE ABOVE.

DESIGNATES NEW WALL OR FIRE BARRIER. SEE FLOOR PLAN FOR WALL TYPES.

NEW CEILING GRID AND TILE. SEE FINISH SCHEDULE.

NEW GYPSUM WALL BOARD CEILING. SEE FINISH SCHEDULE

SPRINKLER HEAD

HVAC SUPPLY GRILL DIFFUSER. SEE MECHANICAL DRAWINGS.

HVAC RETURN GRILL. SEE MECHANICAL DRAWINGS.

1'X4' LED LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS.

2'X4' LED LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS.

WALL SCONCE LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS.

WALL WASH LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS.

RECESSED LED DOWN LIGHT. SEE ELECTRICAL.

LED 12" GLOBE PENDANT LIGHT FIXTURE. SEE CEILING DETAILS. SEE ELECTRICAL DRAWINGS.

3" X 4'-0" RECESSED LED LINEAR LIGHT FIXTURE. SEE CEILING DETAILS. SEE ELECTRICAL DRAWINGS.

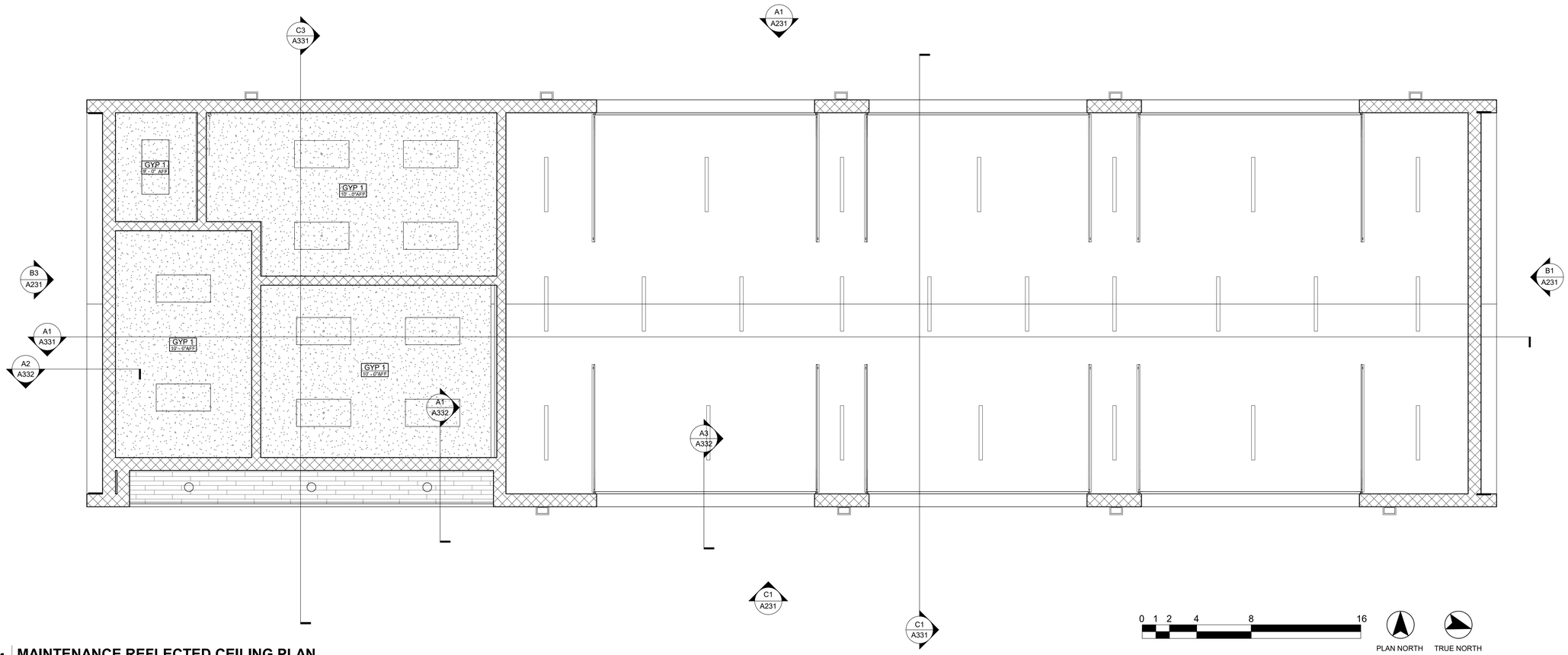
NEW CEILING MOUNTED EXIT LIGHT FIXTURE AND TYPE WITH DIRECTIONAL ARROWS. SEE ELECTRICAL DRAWINGS.

NEW WALL MOUNTED EXIT LIGHT FIXTURE AND TYPE WITH DIRECTIONAL ARROWS. SEE ELECTRICAL DRAWINGS.

NEW WALL MOUNTED EXIT LIGHT FIXTURE AND TYPE WITH DIRECTIONAL ARROWS. SEE ELECTRICAL DRAWINGS.

2 HEADER ABOVE. SEE WALL TYPES.

RCP LEGEND



A1 MAINTENANCE REFLECTED CEILING PLAN

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

5/14/2021 3:58:30 PM

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SCALE	SEE VIEW
DATE	Issue Date

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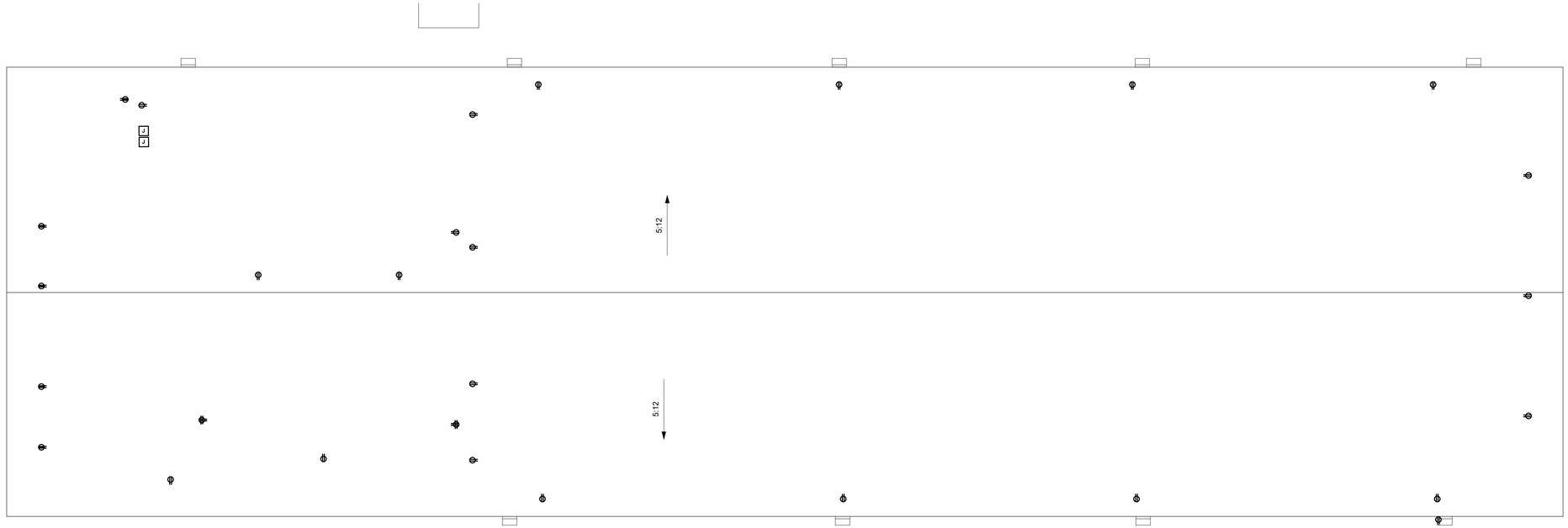
MAINTENANCE REFLECTED CEILING PLAN

A132



0 1 2 4 8 16

PLAN NORTH TRUE NORTH

A1 MAINTENANCE - ROOF PLAN

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

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SHEET

MAINTENANCE ROOF PLAN

A133

DIMENSION TO NEW WALL FINISH SURFACE — 9' - 1"

MAXIMUM DIMENSION ALLOWED (MAY BE LESS) — MAX 9' - 1"

MINIMUM DIMENSION ALLOWED (MAY BE MORE) — MIN 9' - 1"

EXACT DIMENSION BETWEEN FINAL FINISHED SURFACES — CLR 9' - 1"

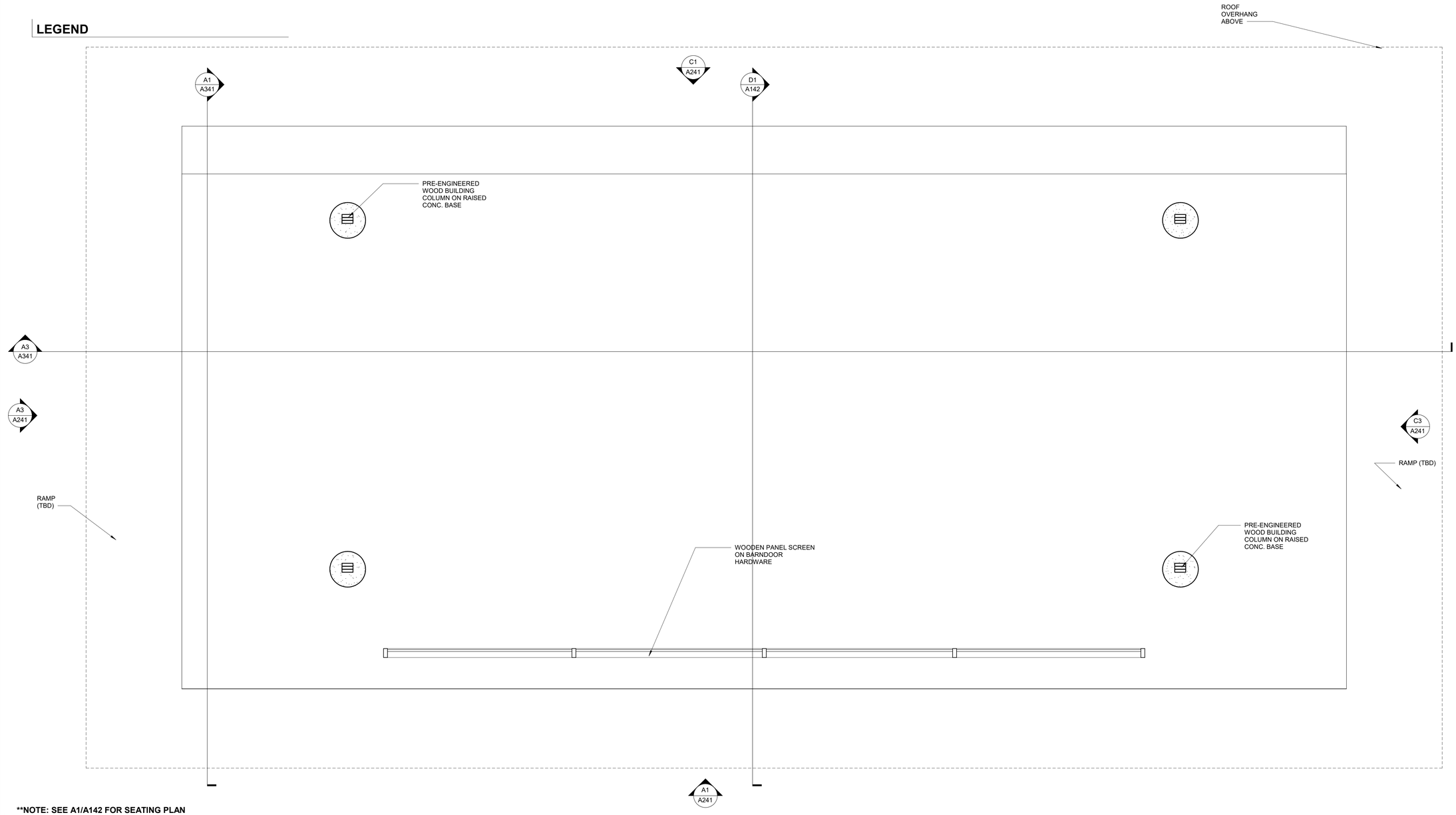
TARGET DIMENSION WHICH MAY NOT BE ACHIEVED IN FIELD - BE AWARE — VERIFY

ALIGN THESE FINISHED SURFACES

PLAN KEY NOTE. "SEE PLAN KEY NOTES" ON PLANS FOR DESCRIPTIONS. — #

FLOOR DRAIN LOCATION. SEE PLUMBING DRAWINGS. — FD

LEGEND



**NOTE: SEE A1/A142 FOR SEATING PLAN

0 1 2 4 8 16

PLAN NORTH TRUE NORTH

A1 AMPHITHEATER - GROUND

Scale: 1/2" = 1'-0"

5/14/2021 3:58:31 PM

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PLAN NORTH TRUE NORTH

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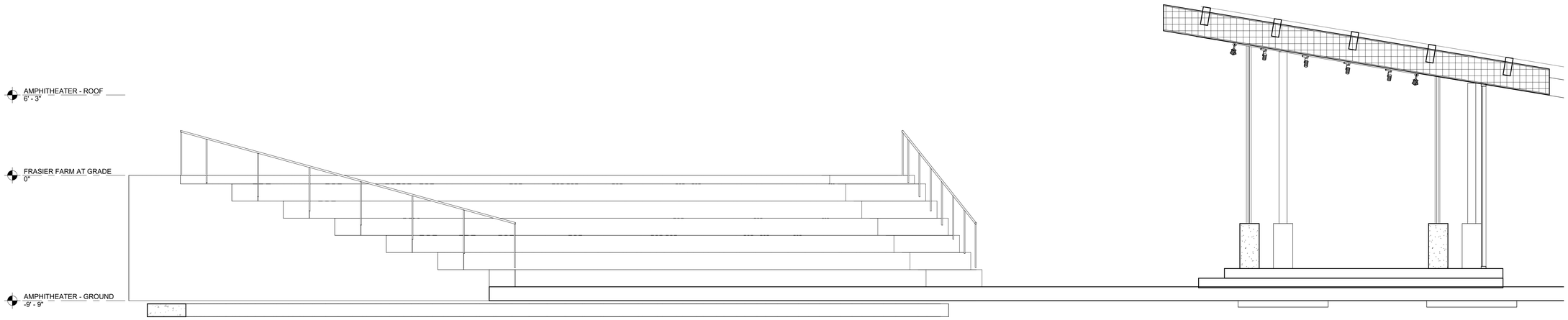
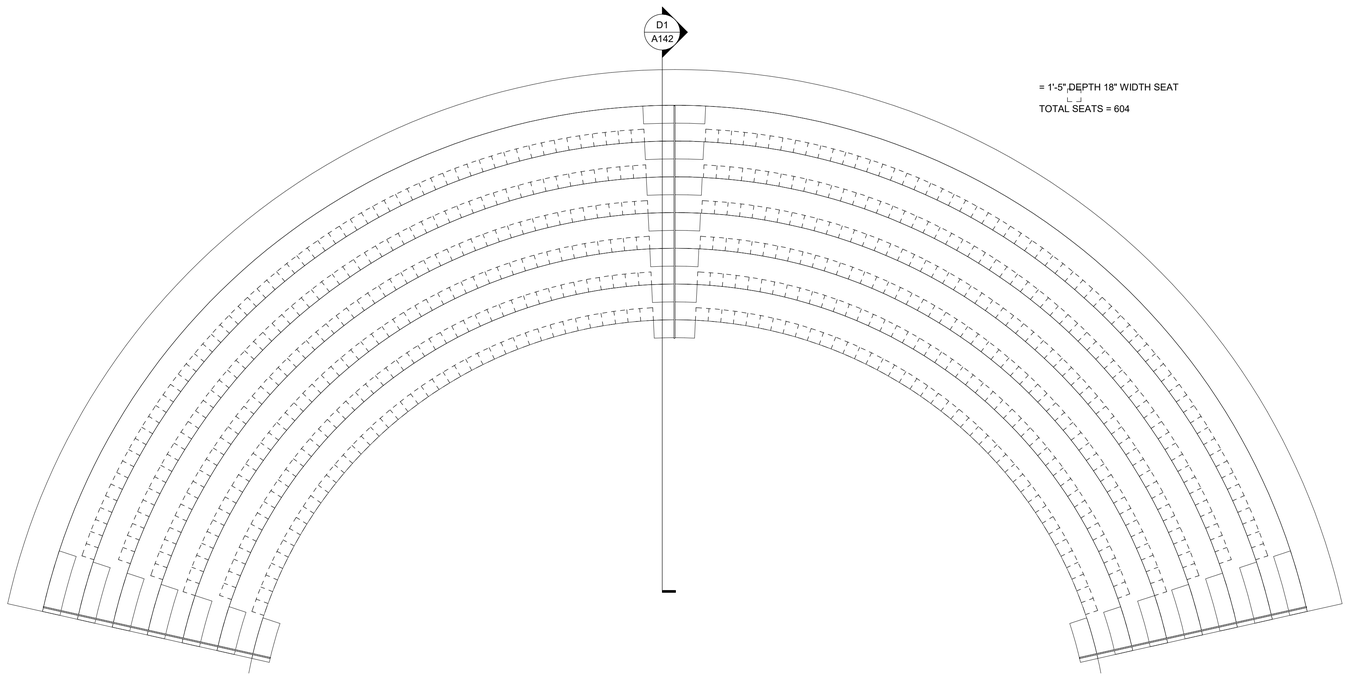
AMPHITHEATER FLOOR PLAN

A141



D1 AMPHITHEATER SEATING SECTION

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



A1 AMPHITHEATER - SEATING

Scale: 1/8" = 1'-0"

0 1 2 4 8

PLAN NORTH TRUE NORTH

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

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AMPHITHEATER SEATING PLAN

A142

CEILING TAG

GYP T
10' - 0" AFF

CEILING TYPE. SEE FINISH SCHEDULE.

CEILING HEIGHT FROM FINISHED FLOOR

OPEN TO STRUCTURE ABOVE.

DESIGNATES NEW WALL OR FIRE BARRIER. SEE FLOOR PLAN FOR WALL TYPES.

NEW CEILING GRID AND TILE. SEE FINISH SCHEDULE.

NEW GYPSUM WALL BOARD CEILING. SEE FINISH SCHEDULE

SPRINKLER HEAD

HVAC SUPPLY GRILL DIFFUSER. SEE MECHANICAL DRAWINGS.

HVAC RETURN GRILL. SEE MECHANICAL DRAWINGS.

1'X4' LED LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS.

2'X4' LED LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS.

WALL SCONCE LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS.

WALL WASH LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS.

RECESSED LED DOWN LIGHT. SEE ELECTRICAL.

LED 12" GLOBE PENDANT LIGHT FIXTURE. SEE CEILING DETAILS. SEE ELECTRICAL DRAWINGS.

3" X 4'-0" RECESSED LED LINEAR LIGHT FIXTURE. SEE CEILING DETAILS. SEE ELECTRICAL DRAWINGS.

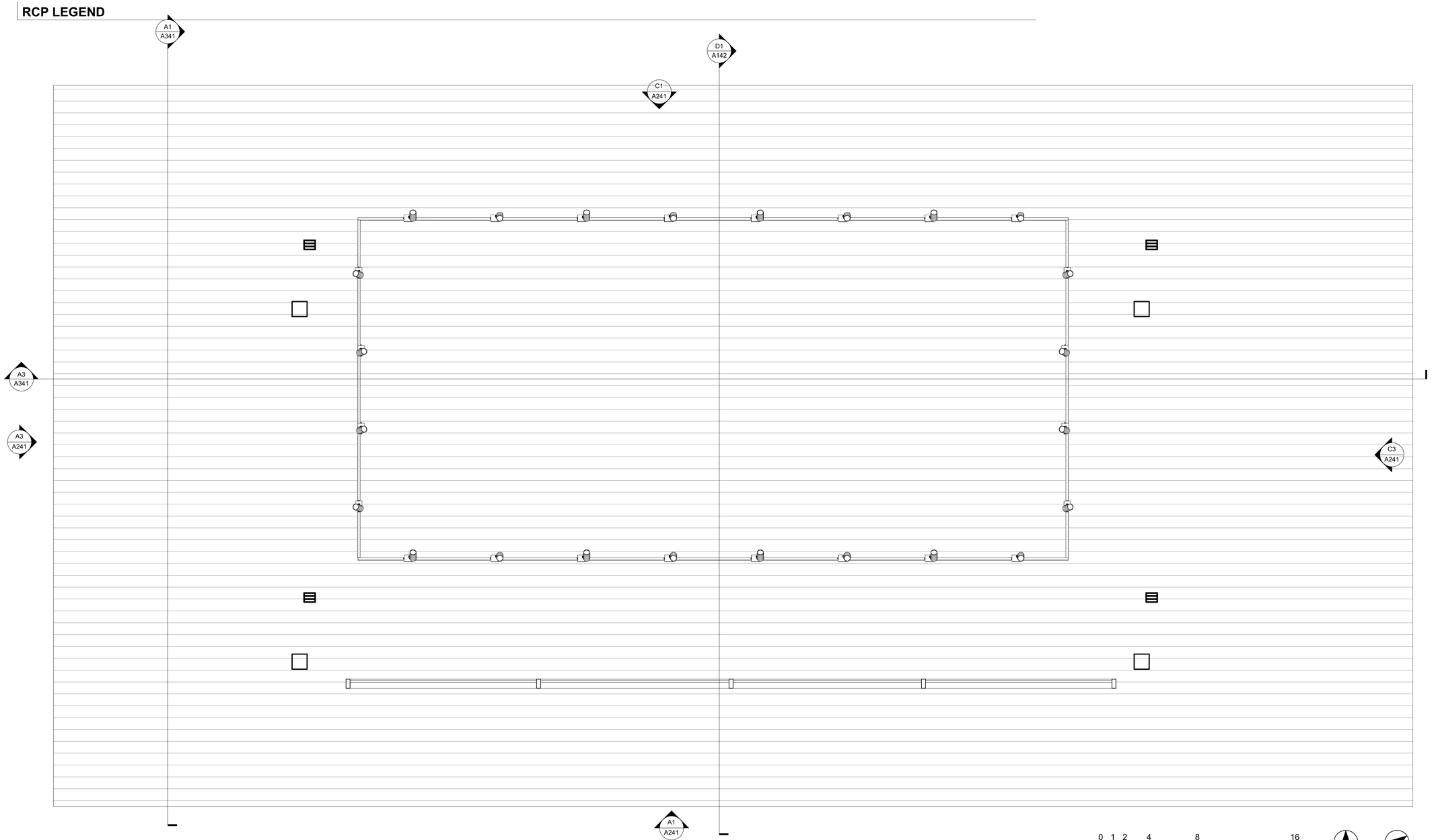
NEW CEILING MOUNTED EXIT LIGHT FIXTURE AND TYPE WITH DIRECTIONAL ARROWS. SEE ELECTRICAL DRAWINGS.

NEW WALL MOUNTED EXIT LIGHT FIXTURE AND TYPE WITH DIRECTIONAL ARROWS. SEE ELECTRICAL DRAWINGS.

NEW WALL MOUNTED EXIT LIGHT FIXTURE AND TYPE WITH DIRECTIONAL ARROWS. SEE ELECTRICAL DRAWINGS.

2 HEADER ABOVE. SEE WALL TYPES.

RCP LEGEND



A1 AMPHITHEATER REFLECTED CEILING PLAN

Scale: 1/2" = 1'-0"

5/14/2021 3:58:33 PM

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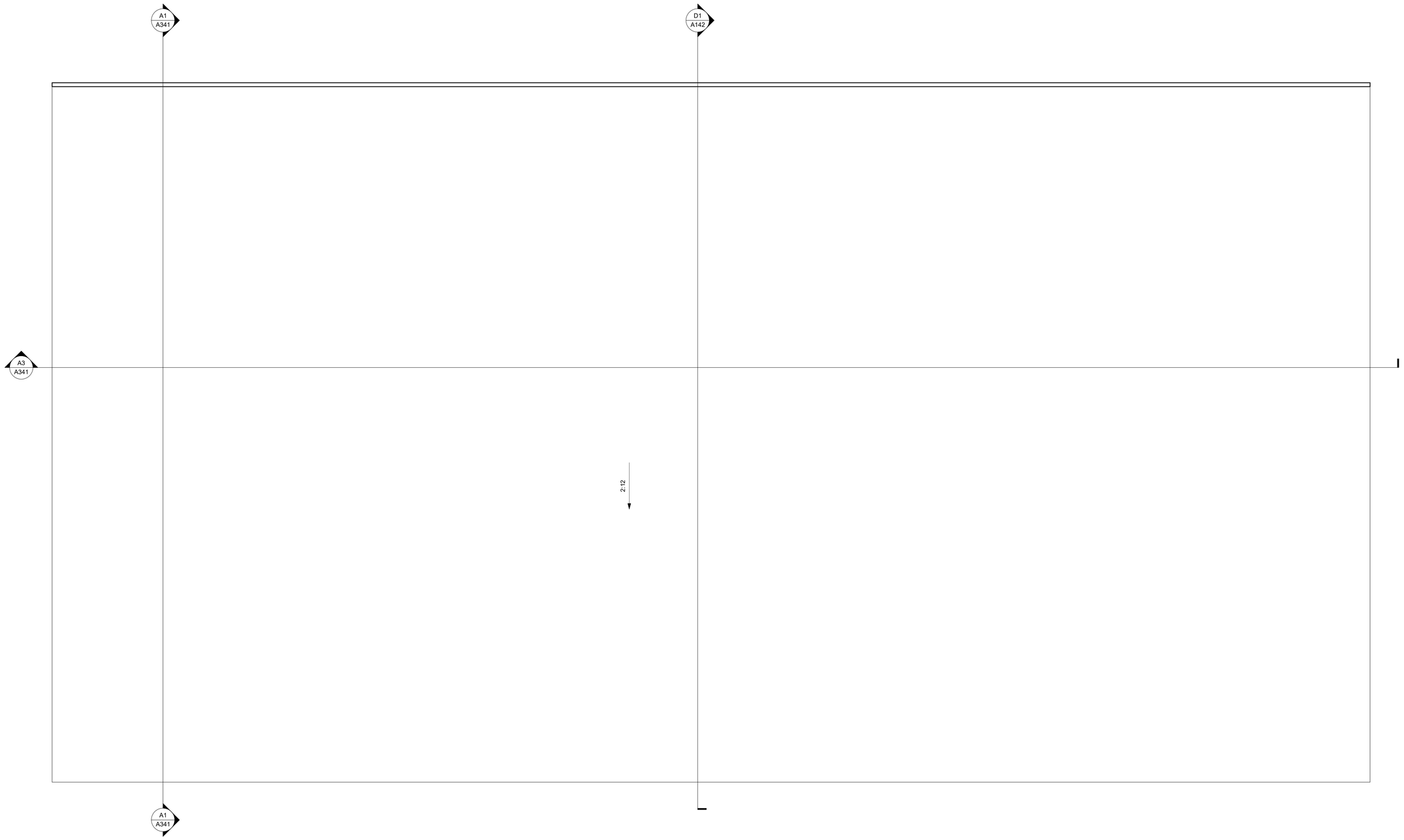
AMPHITHEATER REFLECTED CEILING PLAN

A143



0 1 2 4 8 16

PLAN NORTH TRUE NORTH

A1 AMPHITHEATER - ROOF PLAN

Scale: 1/2" = 1'-0"

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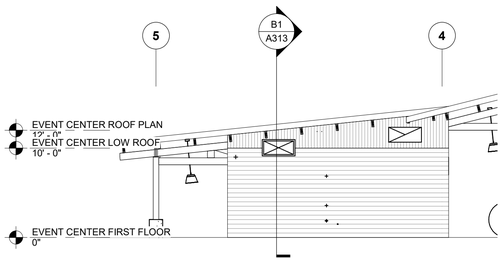
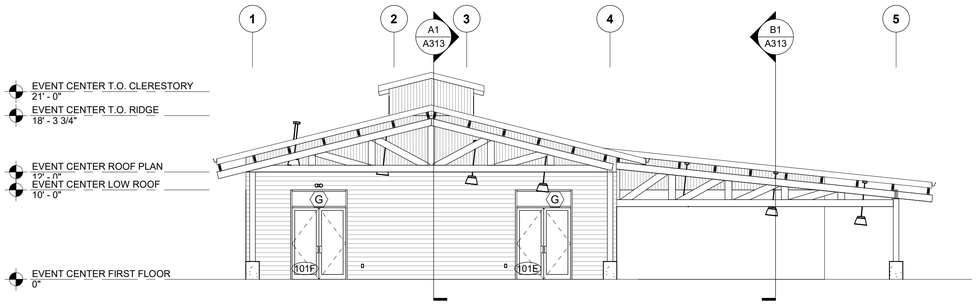
AMPHITHEATER ROOF PLAN

A144



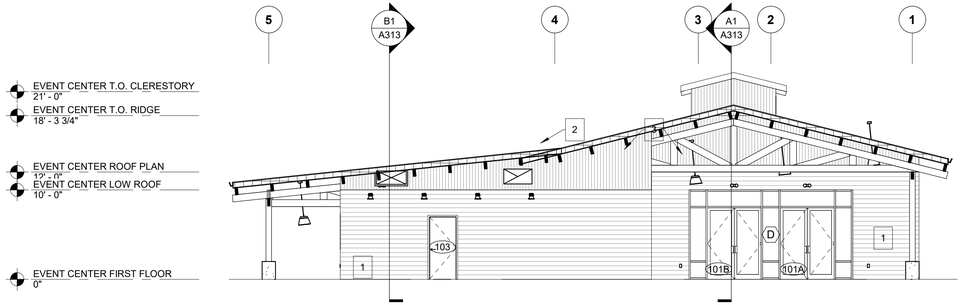
D1 EVENT CENTER - EAST ELEVATION 2

Scale: 1/8" = 1'-0"



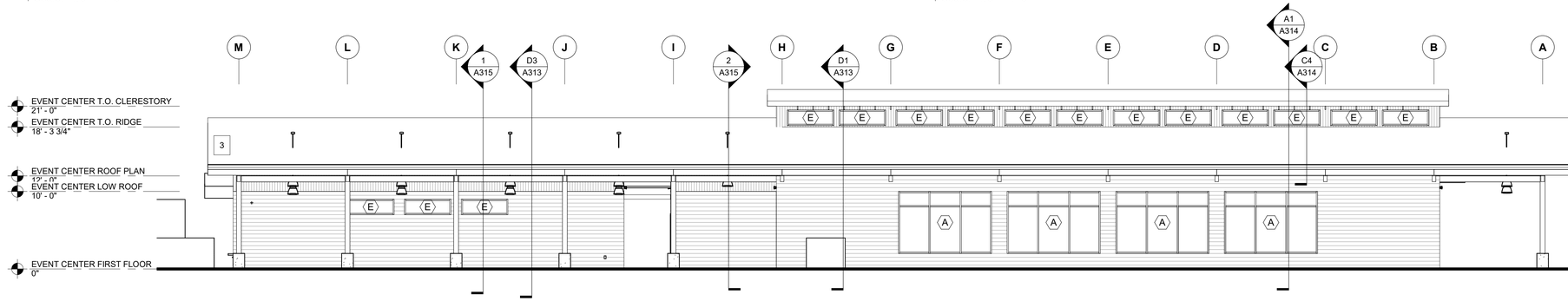
C1 EVENT CENTER - WEST ELEVATION

Scale: 1/8" = 1'-0"



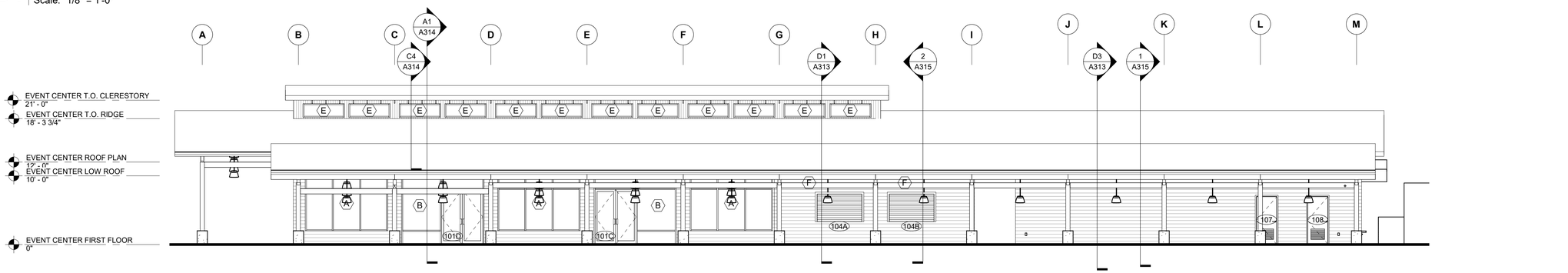
C3 EVENT CENTER - EAST ELEVATION 1

Scale: 1/8" = 1'-0"



B1 EVENT CENTER - NORTH ELEVATION

Scale: 1/8" = 1'-0"



0 1 2 4 8 16

A1 EVENT CENTER - SOUTH ELEVATION

Scale: 1/8" = 1'-0"

1	FIBER CEMENT LAP SIDING WITH 6" EXPOSURE.
2	STAINED WOOD SIDING.
3	GALVANIZED 5V CRIMP METAL PANEL ROOFING
4	HALF ROUND ALUMINUM GUTTERS AND 6" OD DOWNSPOUTS
5	STAINLESS STEEL COUNTER TOP AT 34"

ELEVATION KEY NOTES

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EVENT CENTER BUILDING ELEVATIONS

A211

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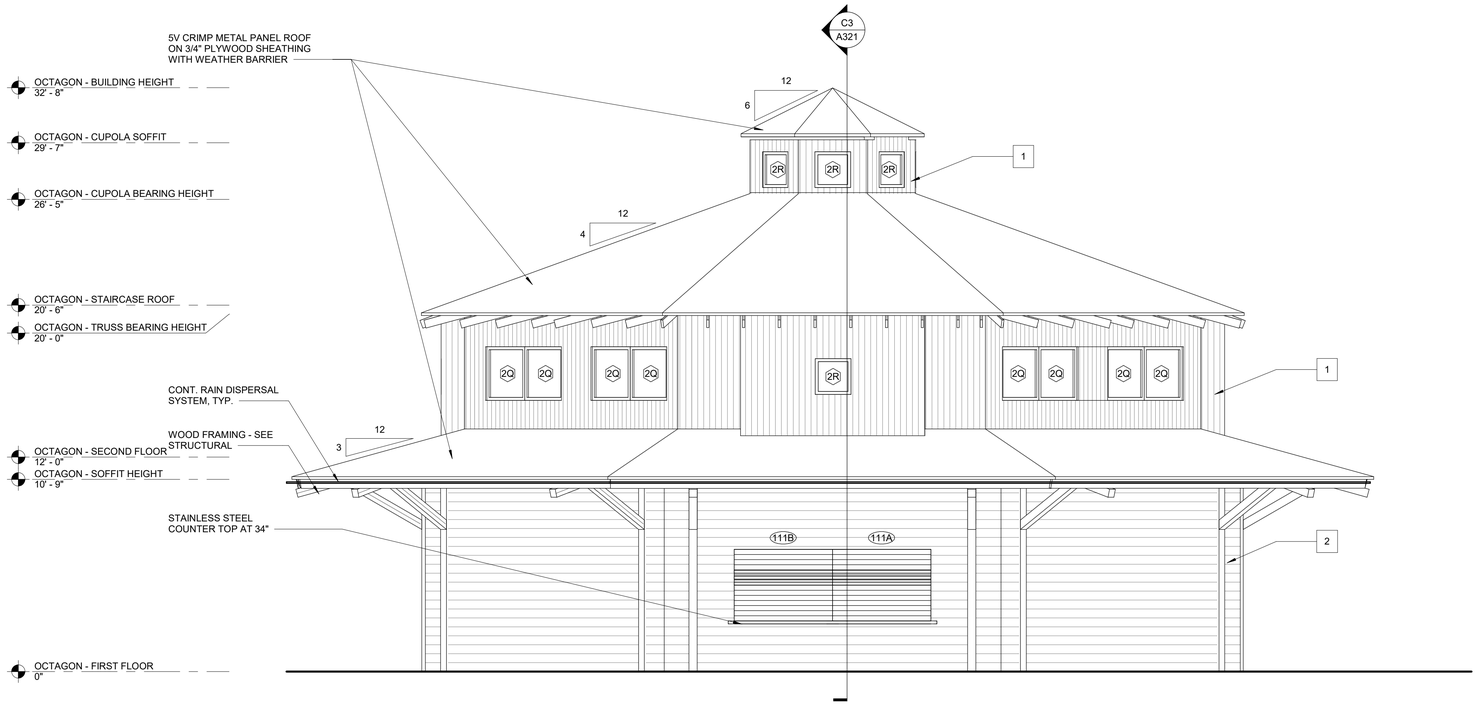
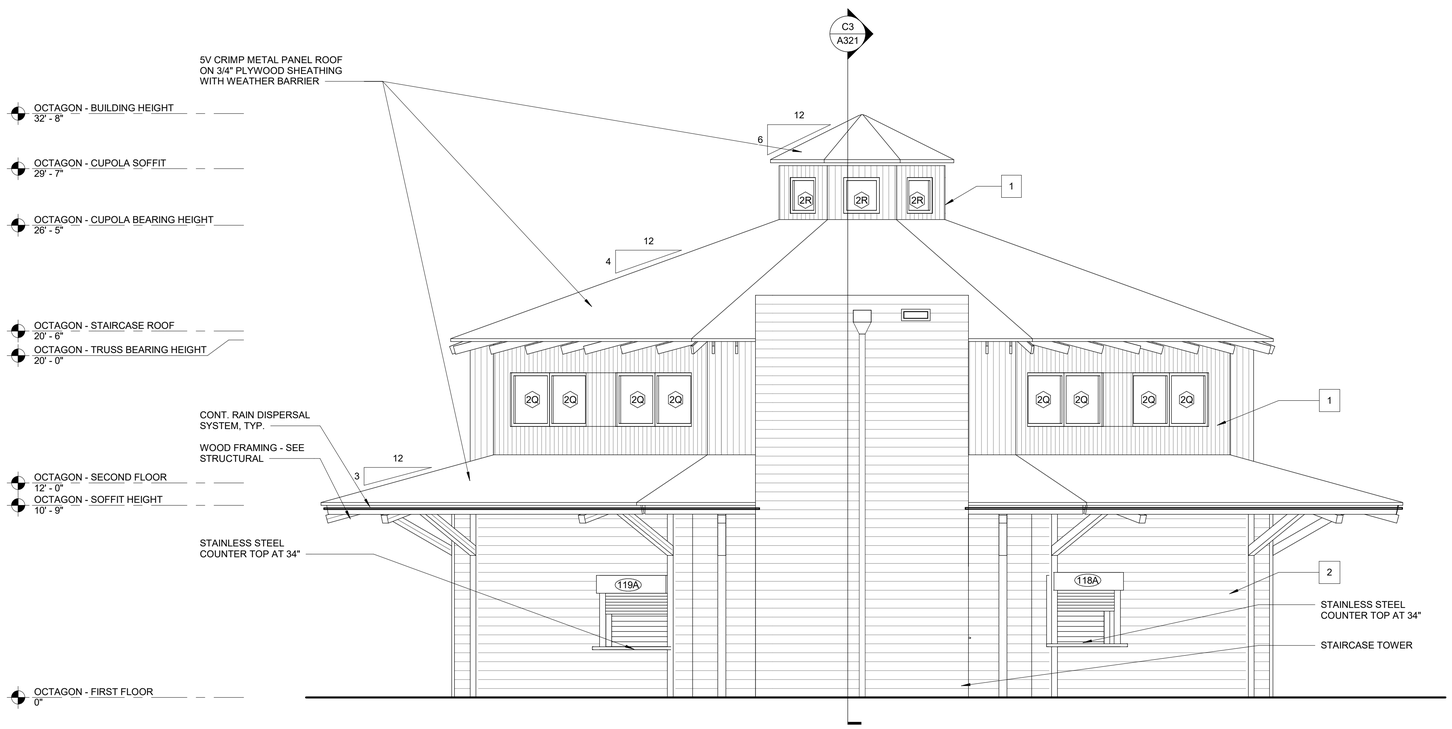


C1 OCTAGON - WEST ELEVATION

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



A1 OCTAGON - EAST ELEVATION

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

1 5/8" FIBER CEMENT PLANK SIDING WITH OVERLAP

2 VERTICAL CLAPBOARD WOOD SIDING OVER 3/8" FURRING STRIPS

ELEVATION KEY NOTES

0 1 2 4 8 16

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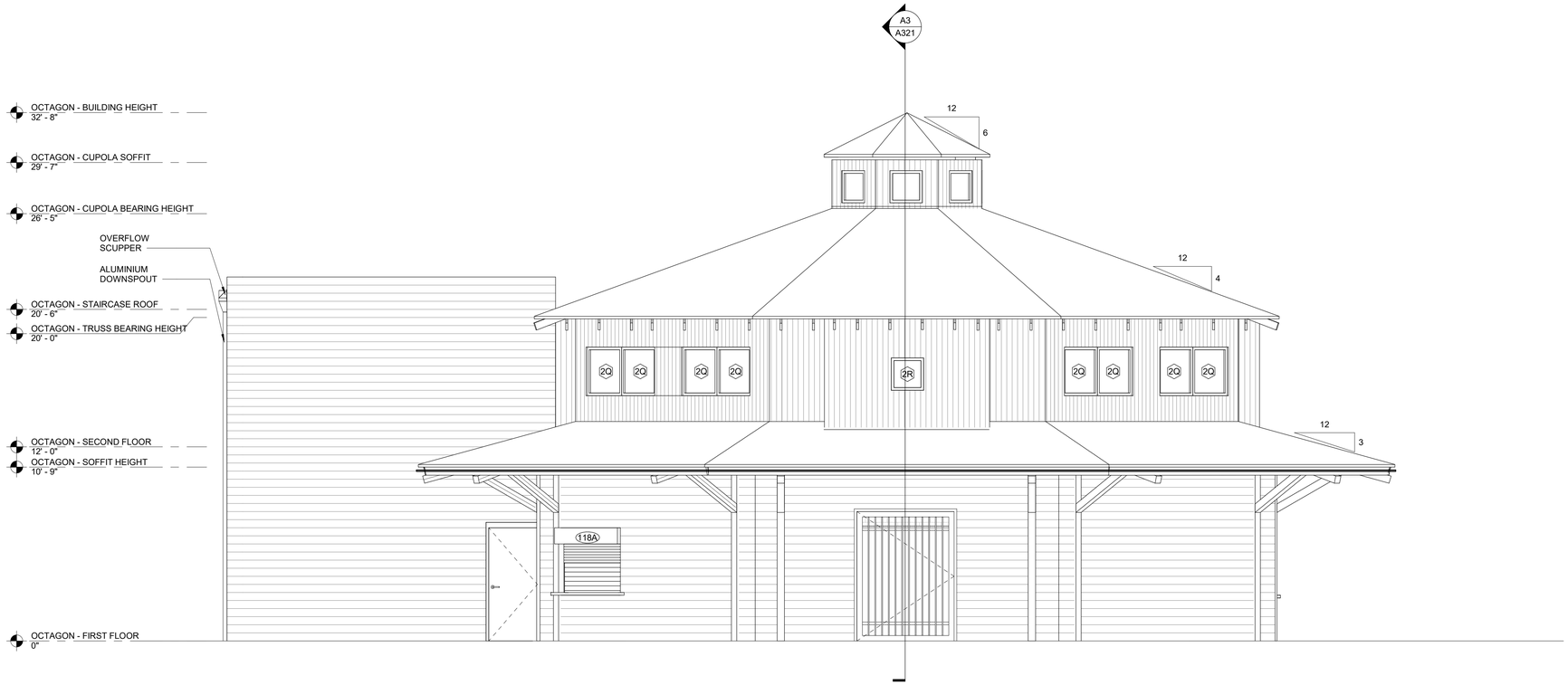
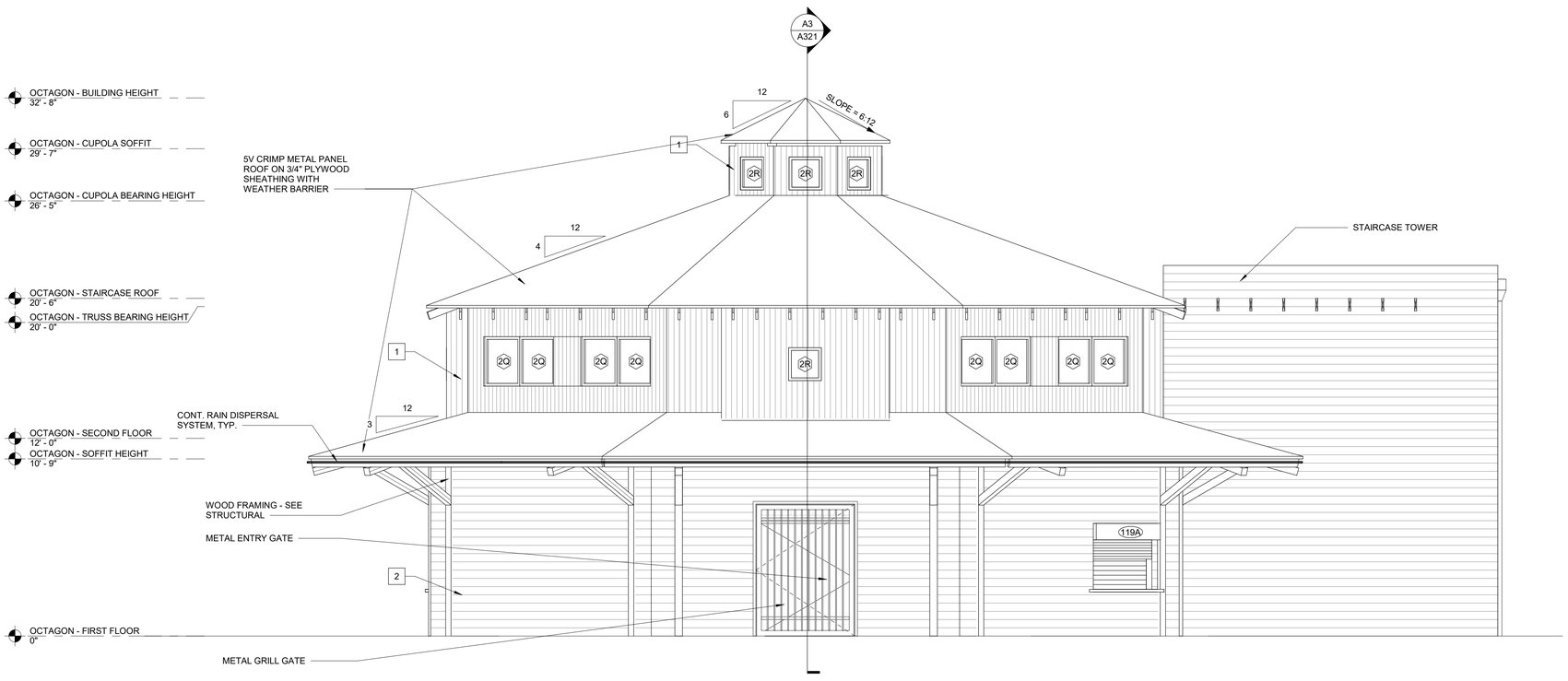
OCTAGON BUILDING ELEVATIONS

A221



C1 OCTAGON - NORTH ELEVATION

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



A1 OCTAGON - SOUTH ELEVATION

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

1 5/8" FIBER CEMENT PLANK SIDING WITH OVERLAP

2 VERTICAL CLAPBOARD WOOD SIDING OVER 3/8" FURRING STRIPS

ELEVATION KEY NOTES

0 1 2 4 8 16

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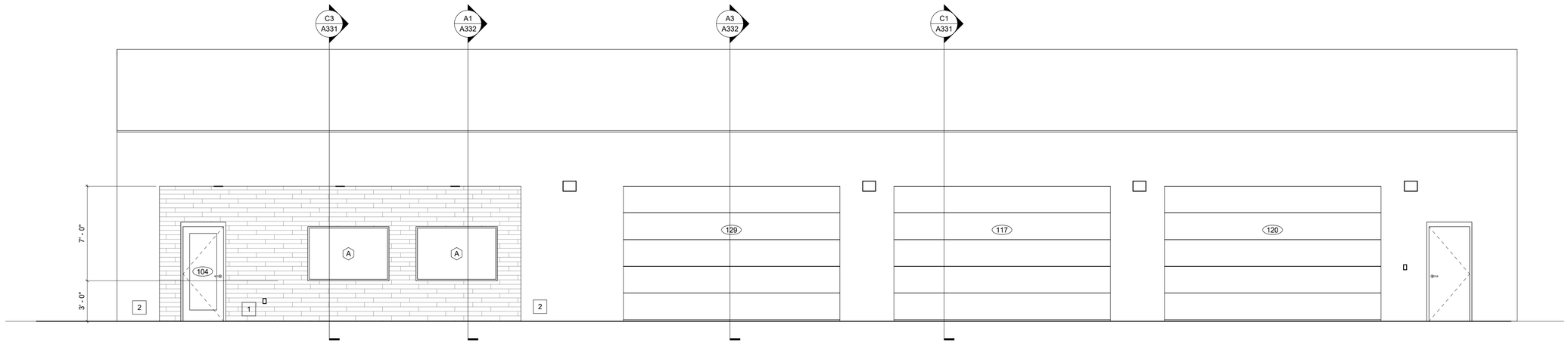
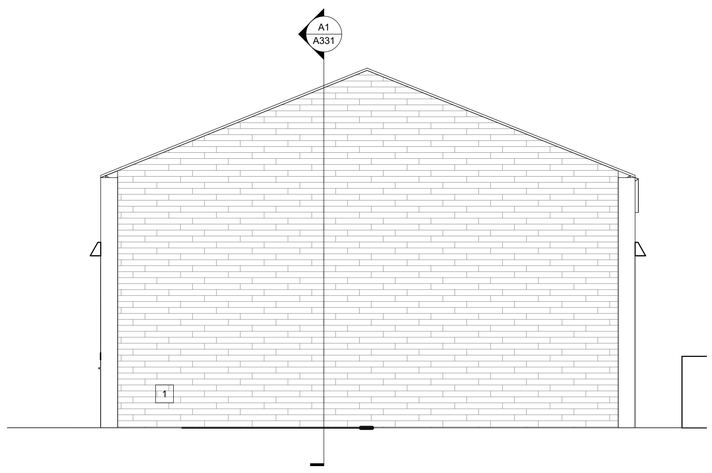
OCTAGON BUILDING ELEVATIONS

A222



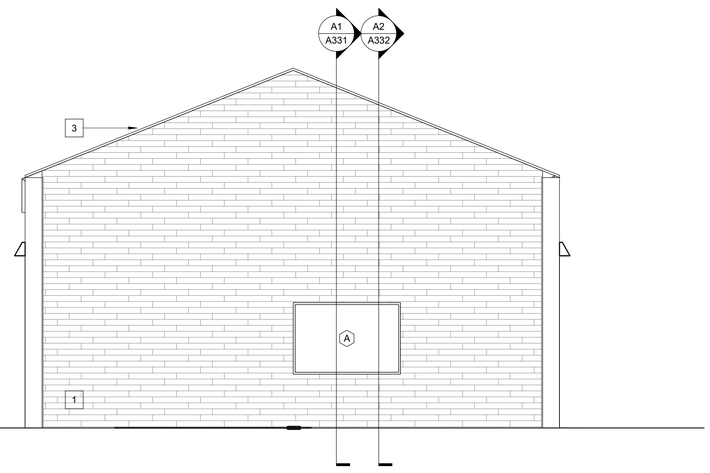
C1 MAINTENANCE - SOUTH ELEVATION

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



B1 MAINTENANCE - EAST ELEVATION

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

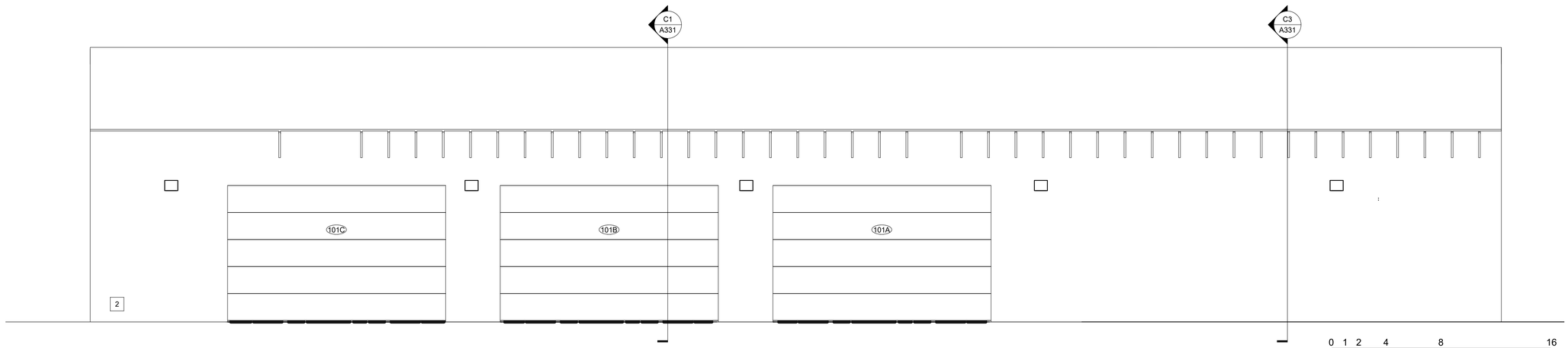


B3 MAINTENANCE - WEST ELEVATION

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

1. WOOD CLADDING ON CMU BLOCK WALL
2. METAL PANEL ON CMU BLOCK WALL
3. METAL PANEL ROOFING

ELEVATION KEY NOTES - MAINTENANCE



A1 MAINTENANCE - NORTH ELEVATION

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

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MAINTENANCE BUILDING ELEVATIONS

A231

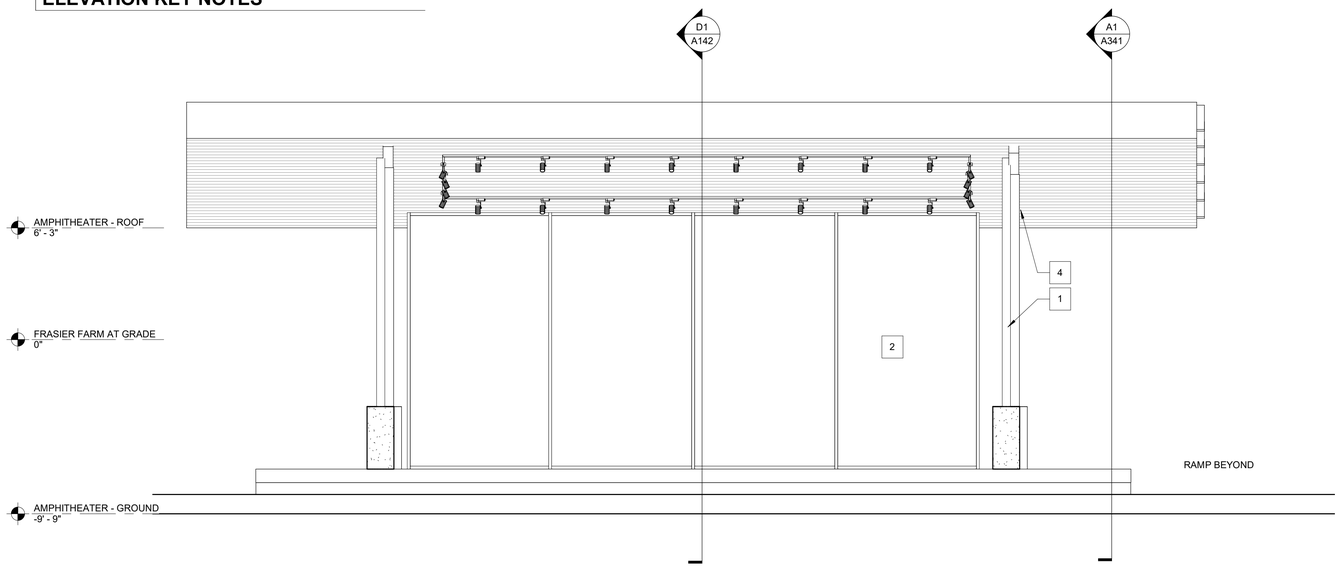
1 PRE-ENGINEERED RED WOOD COLUMNS ON RAISED CONC. BASE

2 WOODEN PANEL SCREEN ON BARNDOOR HARDWARE

3 GALVANIZED 5V CRIMP METAL PANEL ROOFING

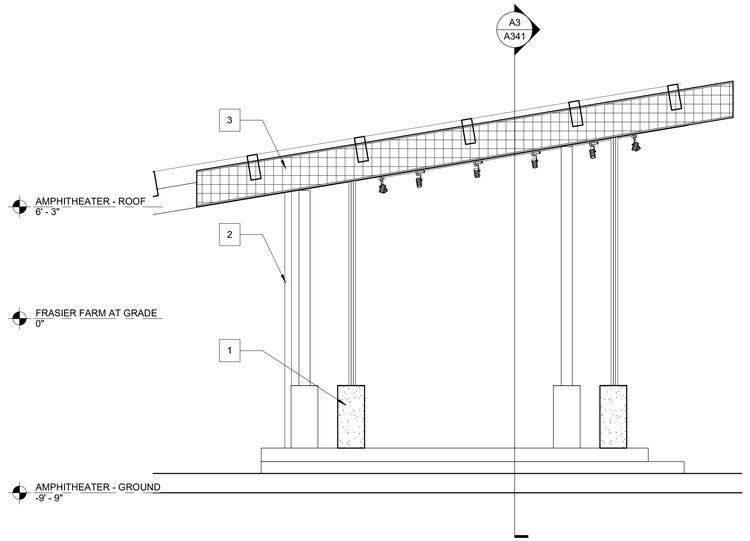
4 STAINED PRE-ENGINEERED RED WOOD ROOF

ELEVATION KEY NOTES



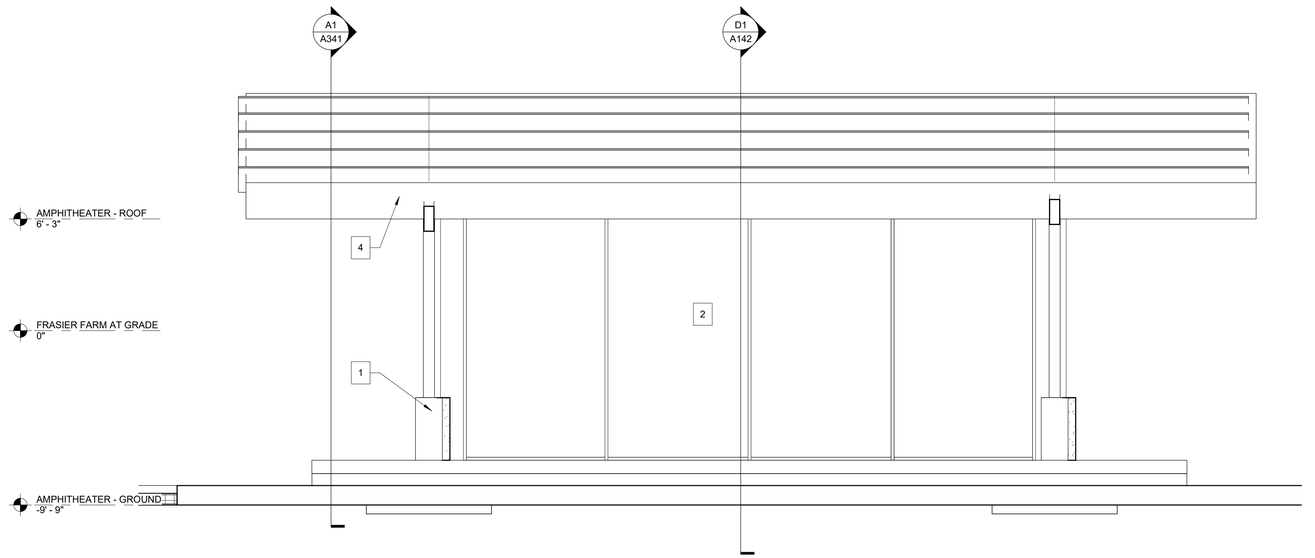
C1 AMPHITHEATER - SOUTH ELEVATION

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



C3 AMPHITHEATER - WEST ELEVATION

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



A1 AMPHITHEATER - NORTH ELEVATION

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

0 1 2 4 8 16

A3 AMPHITHEATER - EAST ELEVATION

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

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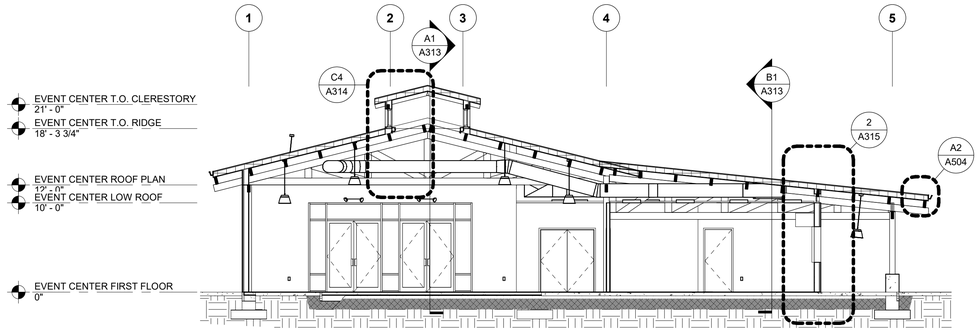
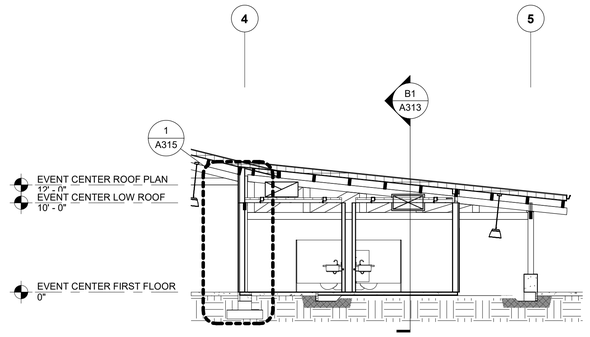
AMPHITHEATER BUILDING ELEVATIONS

A241



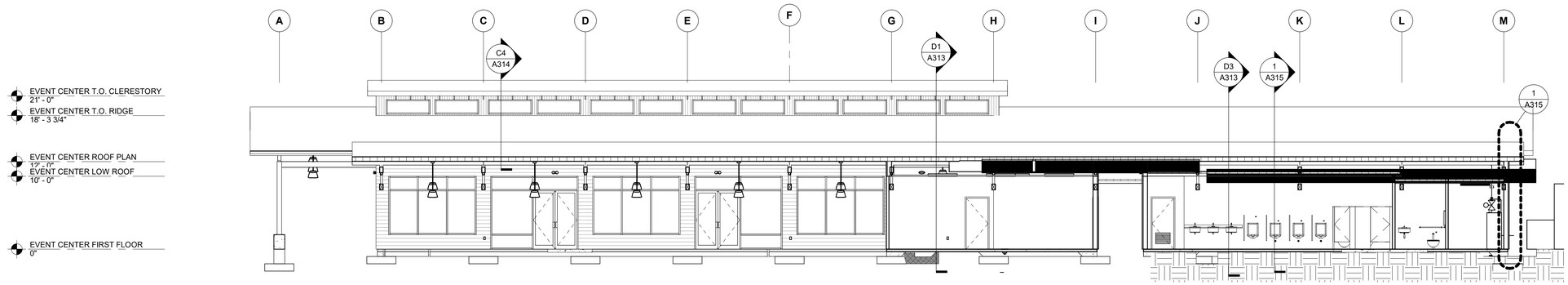
D1 EVENT CENTER SECTION- WEST

Scale: 1/8" = 1'-0"



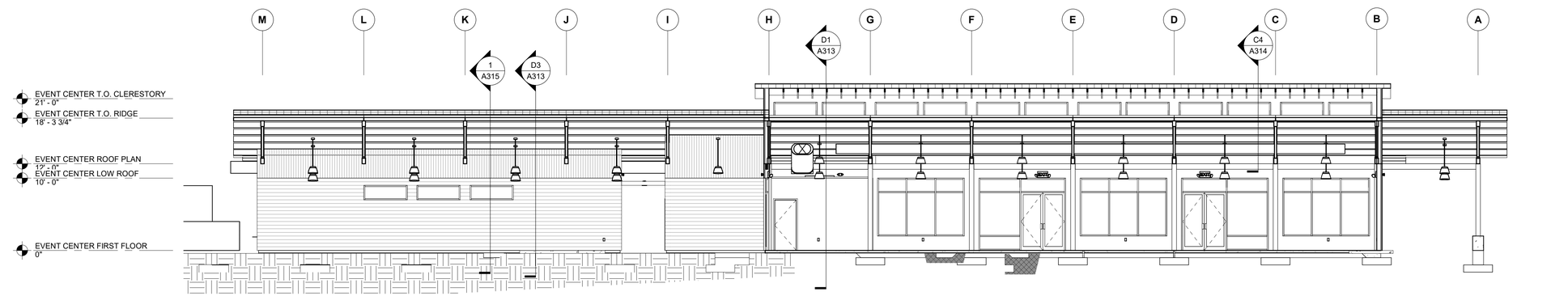
D3 EVENT CENTER SECTION WEST - RESTROOMS

Scale: 1/8" = 1'-0"



B1 EVENT CENTER SECTION - SOUTH

Scale: 1/8" = 1'-0"



A1 EVENT CENTER SECTION - NORTH

Scale: 1/8" = 1'-0"

0 4 8 16 24 FEET

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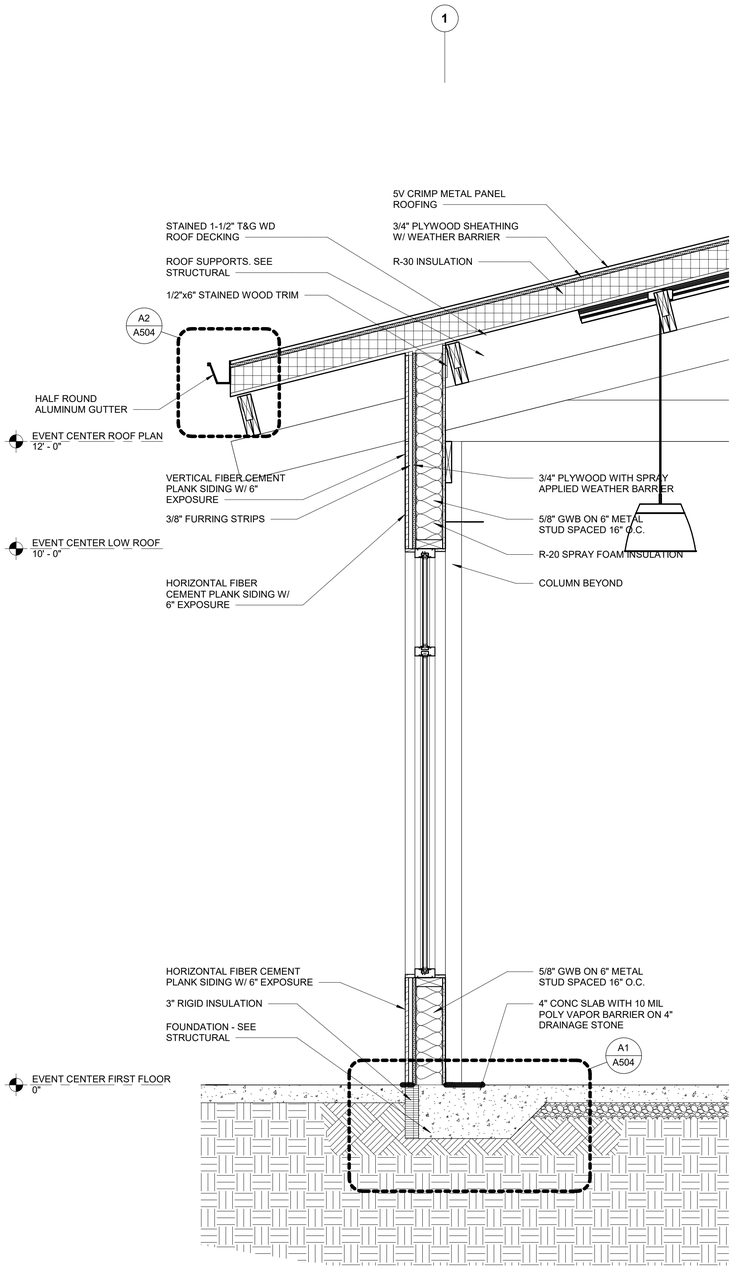
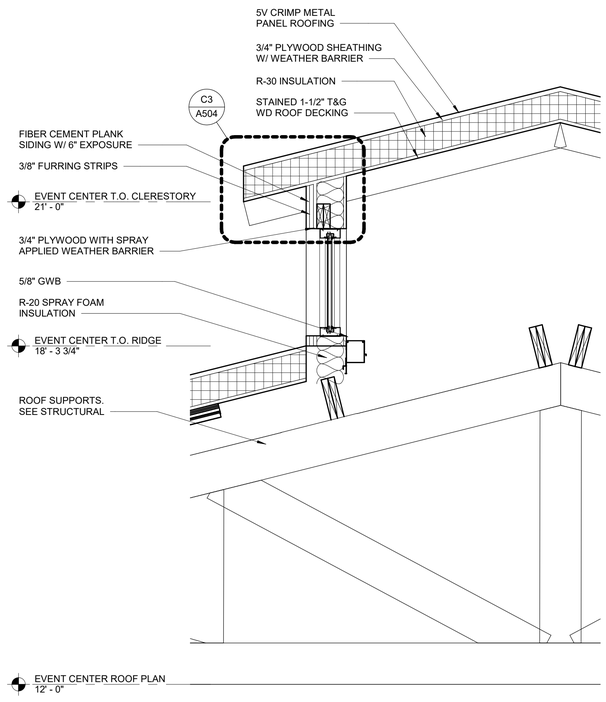
EVENT CENTER BUILDING SECTIONS

A313



A1 EVENT CENTER WALL SECTION - ASSEMBLY

Scale: 3/4" = 1'-0"



C4 EVENT CENTER - CLERESTORY WALL SECTION

Scale: 3/4" = 1'-0"

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REVISIONS

NO.	DATE	DESCRIPTION

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DATE	Issue Date

SHEET

EVENT CENTER WALL SECTIONS

A314

5/14/2021 3:58:52 PM

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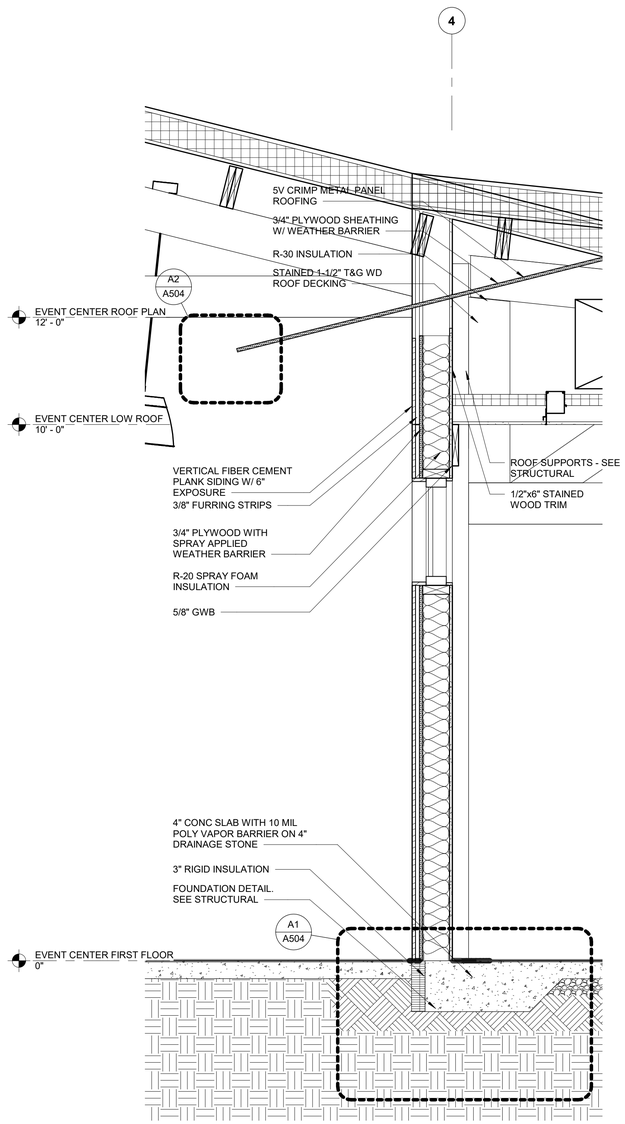
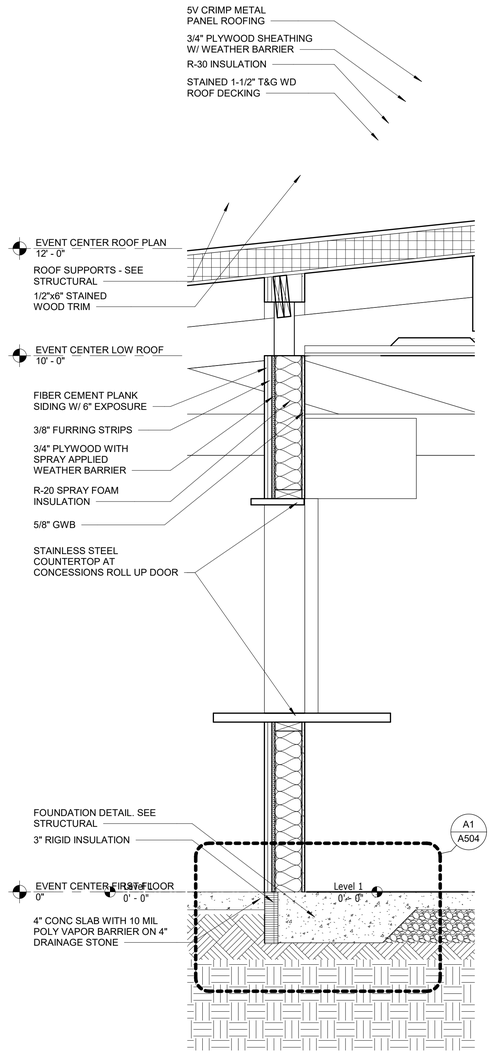


1 EVENT CENTER WALL SECTION - BATHROOMS 2

Scale: 3/4" = 1'-0"



2 EVENT CENTER WALL SECTION - CONCESSIONS

Scale: 3/4" = 1'-0"

0 1 2 4 8 FEET

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

5/14/2021 3:58:53 PM

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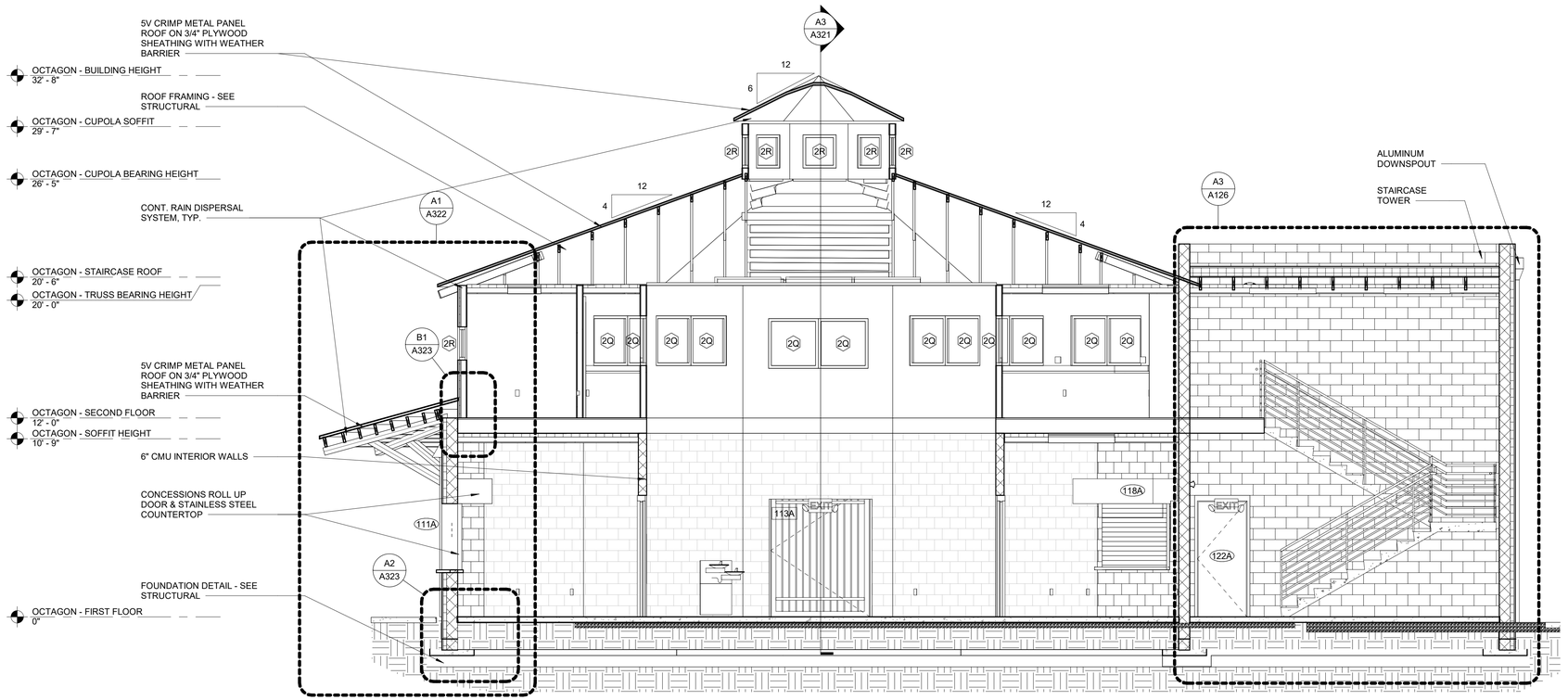
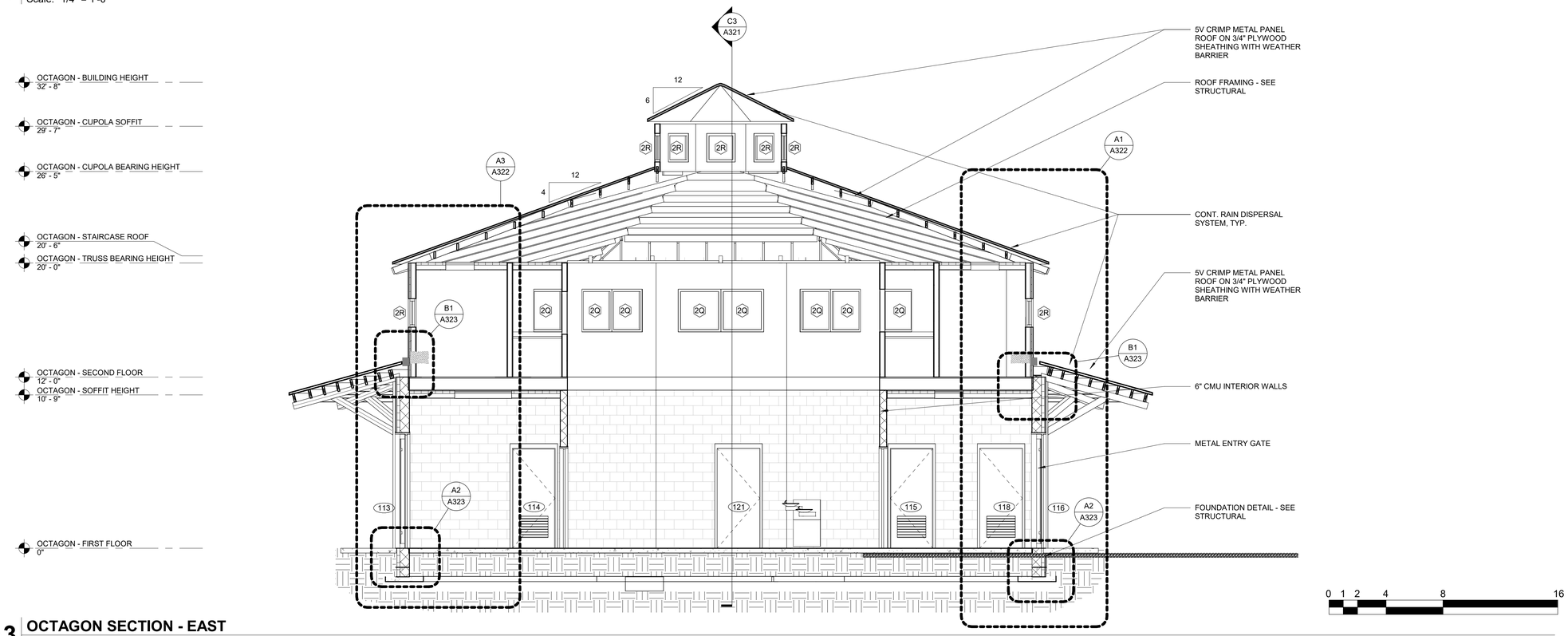
EVENT CENTER WALL SECTIONS

A315



C3 OCTAGON SECTION - WEST

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



A3 OCTAGON SECTION - EAST

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

5/14/2021 3:58:56 PM

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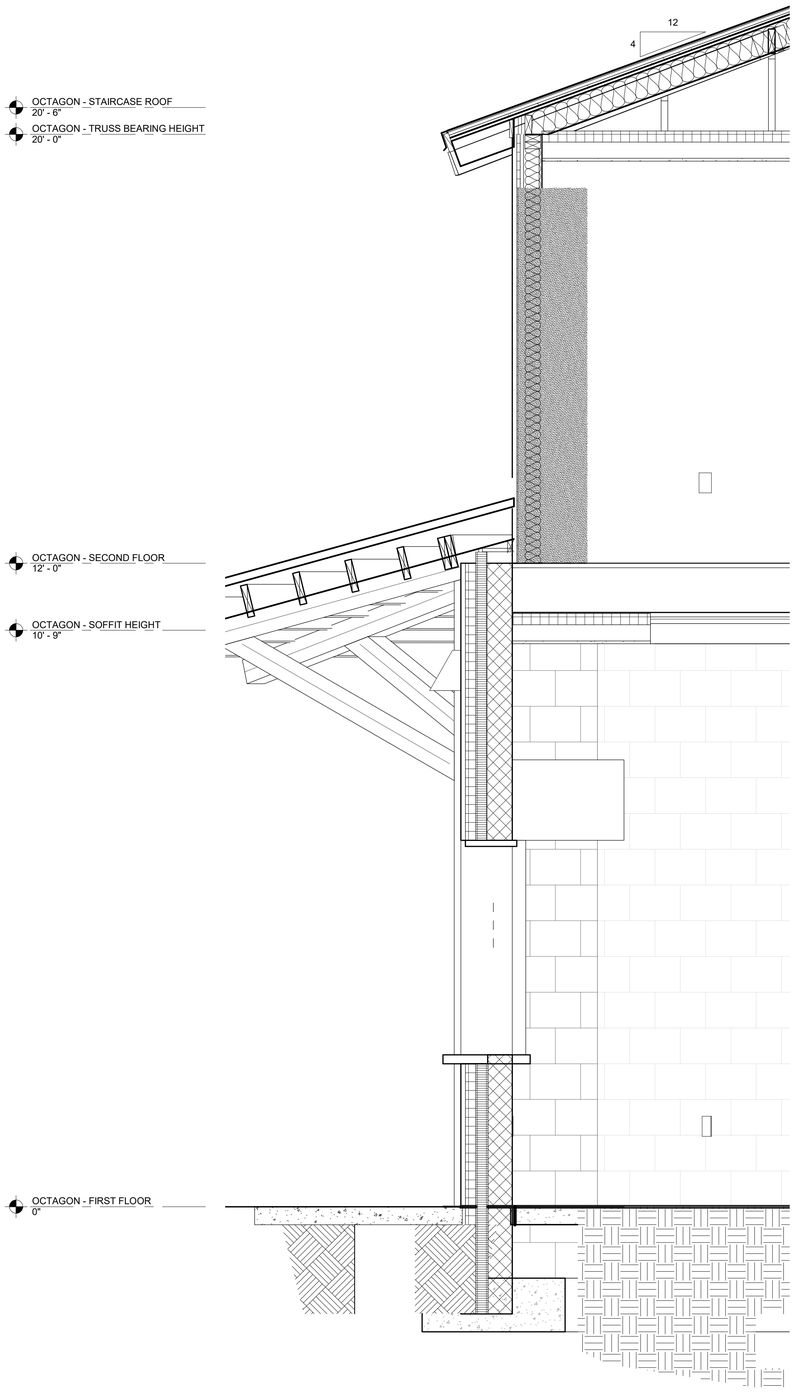
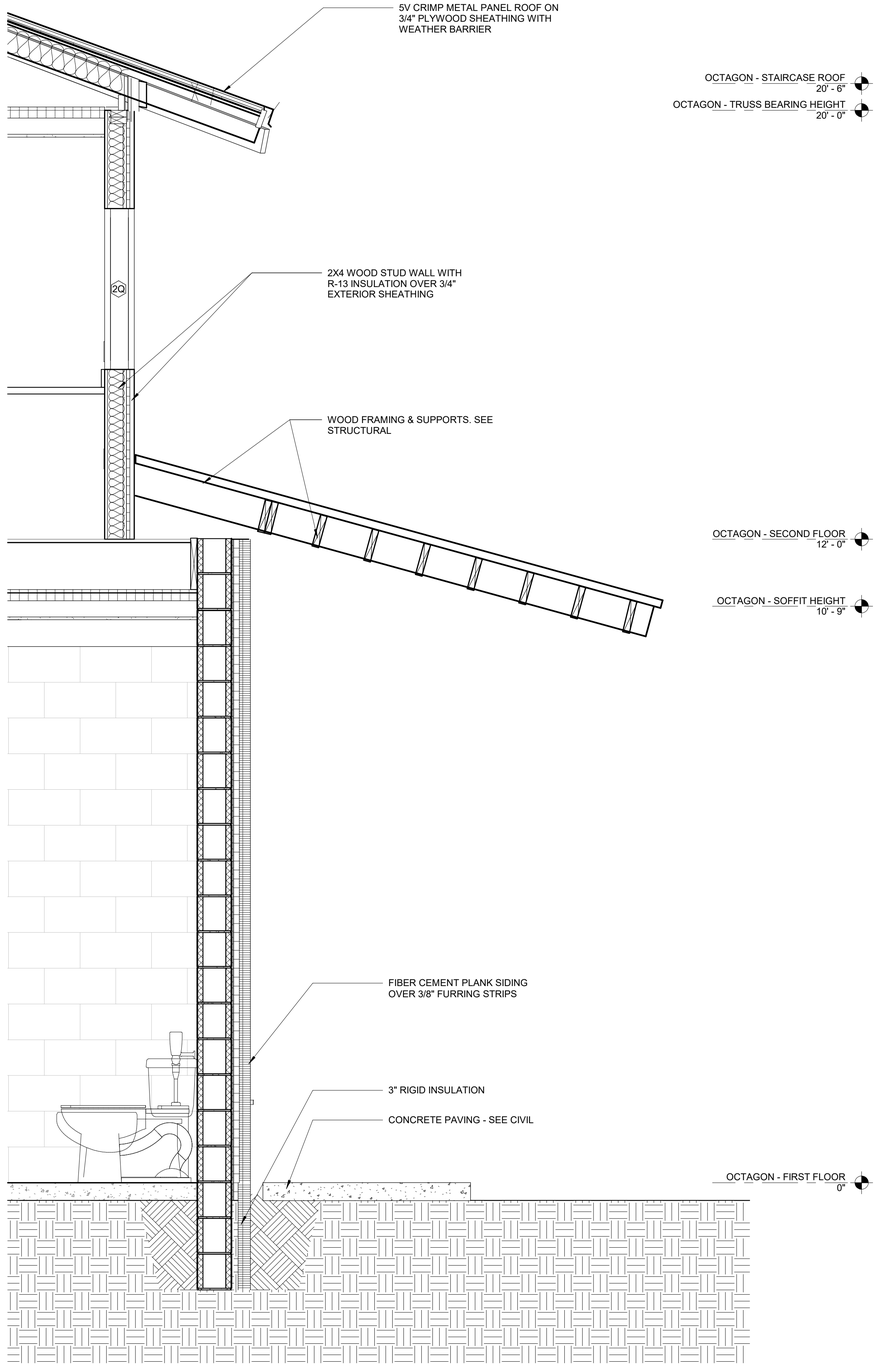
OCTAGON BUILDING SECTIONS

A321



A1 OCTAGON - WALL SECTION 01

Scale: 3/4" = 1'-0"



A3 OCTAGON - WALL SECTION 02

Scale: 3/4" = 1'-0"

0 1 2 4 8 FEET

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

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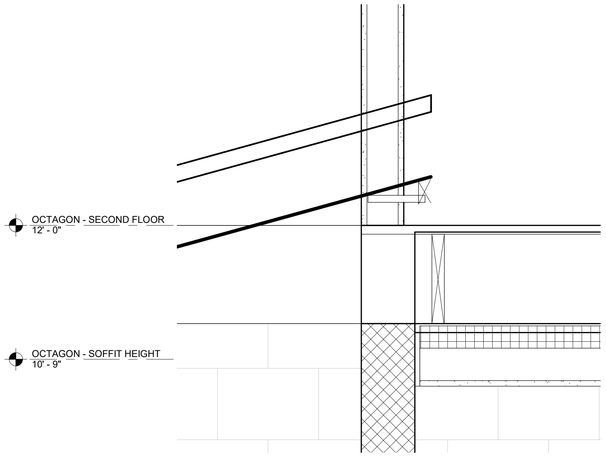
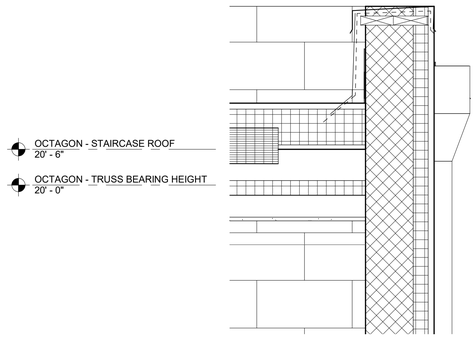
OCTAGON WALL SECTIONS

A322



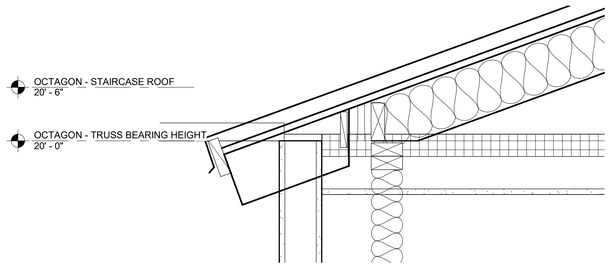
B1 OCTAGON - LOWER ROOF FRAMING DETAIL

Scale: 1 1/2" = 1'-0"



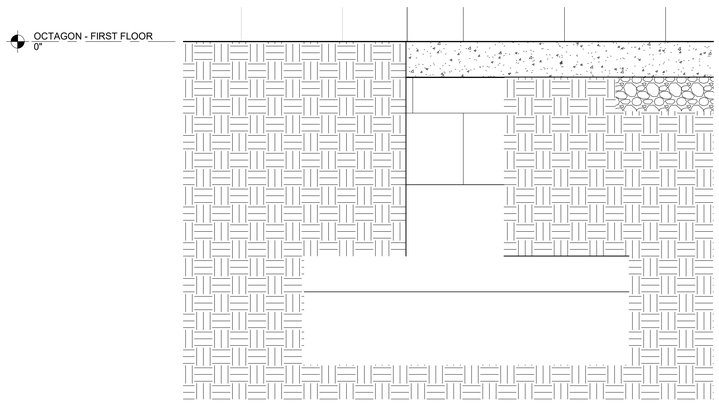
B2 OCTAGON - PARAPET DETAIL

Scale: 1" = 1'-0"



A1 OCTAGON - UPPER ROOF FRAMING DETAIL

Scale: 1 1/2" = 1'-0"



A2 OCTAGON - FOUNDATION DETAIL

Scale: 1 1/2" = 1'-0"

5/14/2021 3:59:00 PM

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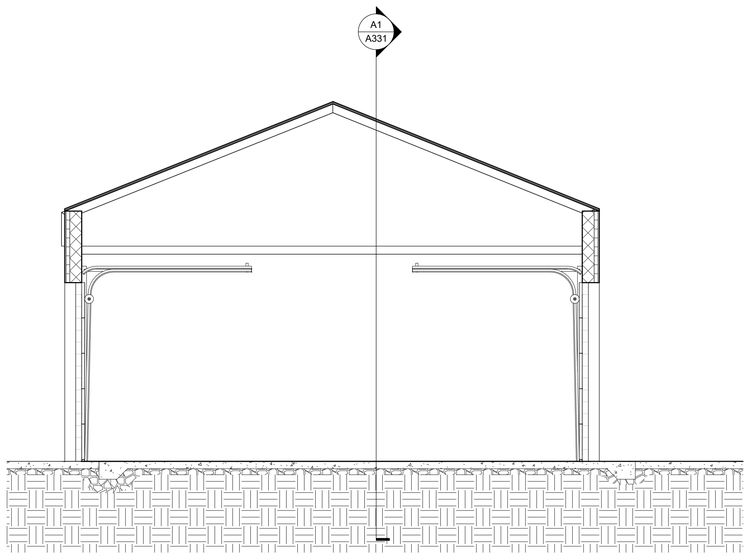
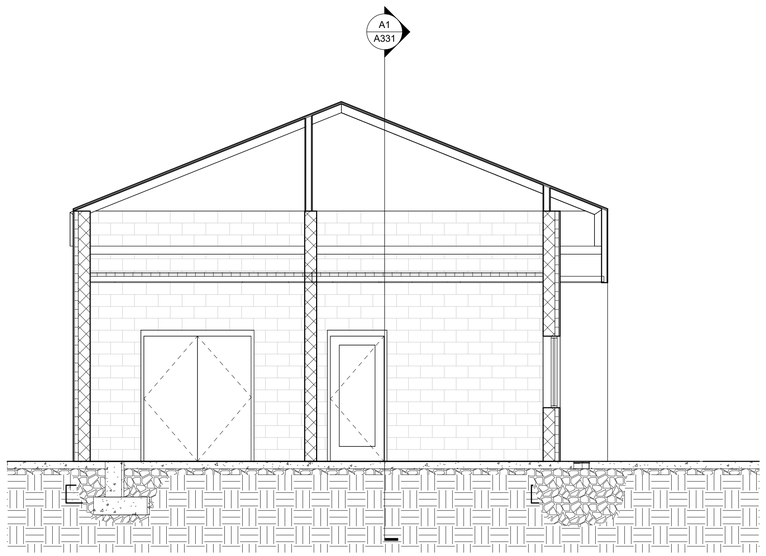
OCTAGON PLAN & WALL SECTION DETAILS

A323



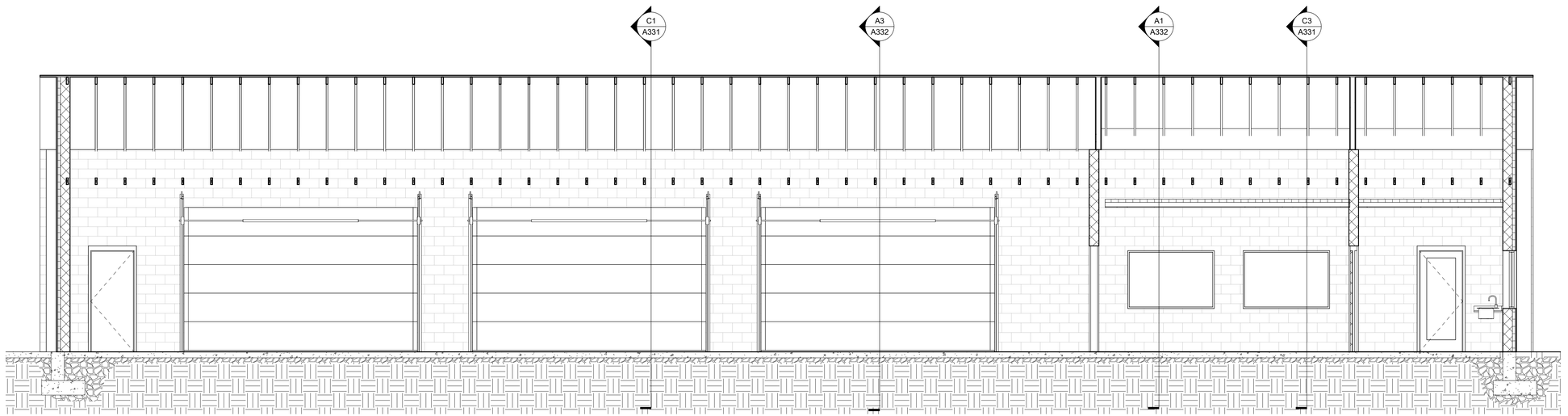
C1 MAINTENANCE SECTION - WEST

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



C3 MAINTENANCE SECTION - EAST

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



0 1 2 4 8 16

A1 MAINTENANCE SECTION - SOUTH

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

5/14/2021 3:59:00 PM

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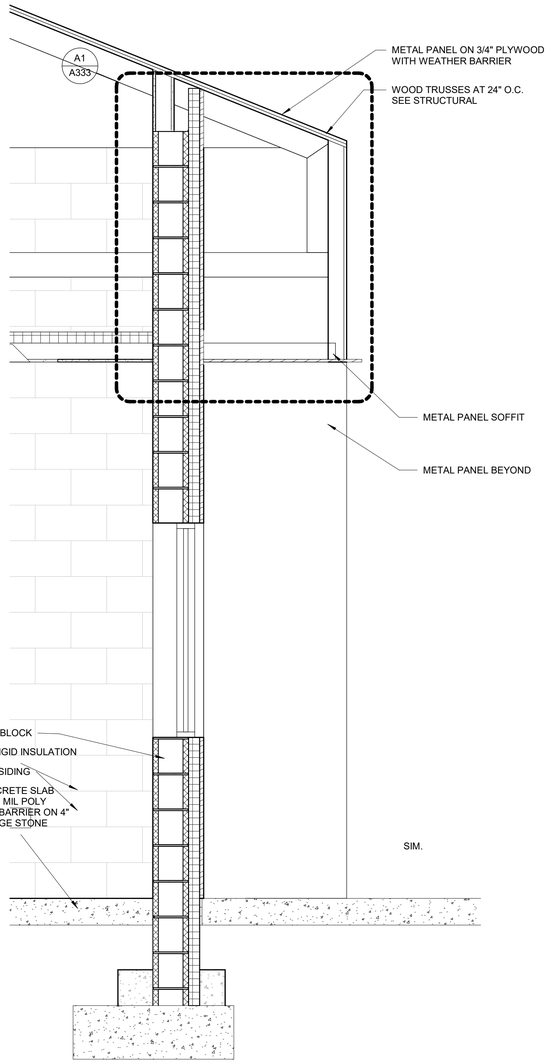
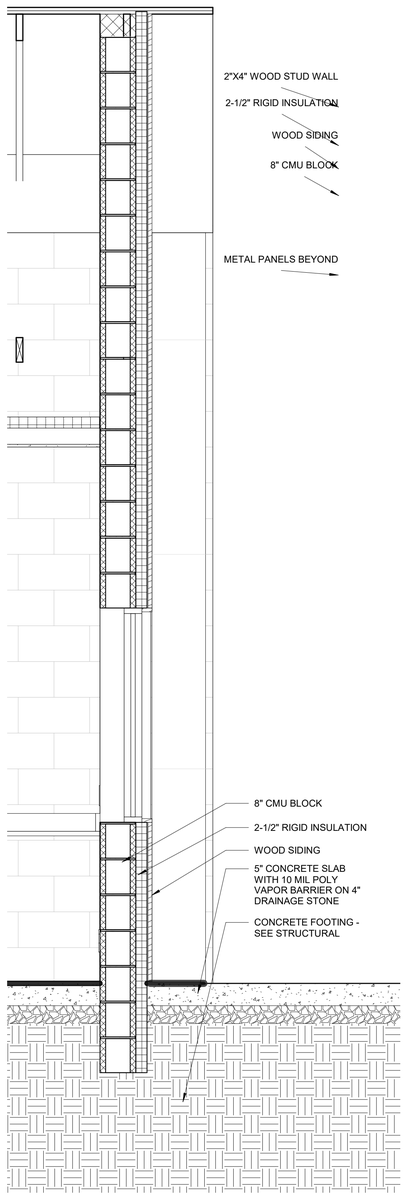
MAINTENANCE BUILDING SECTIONS

A331



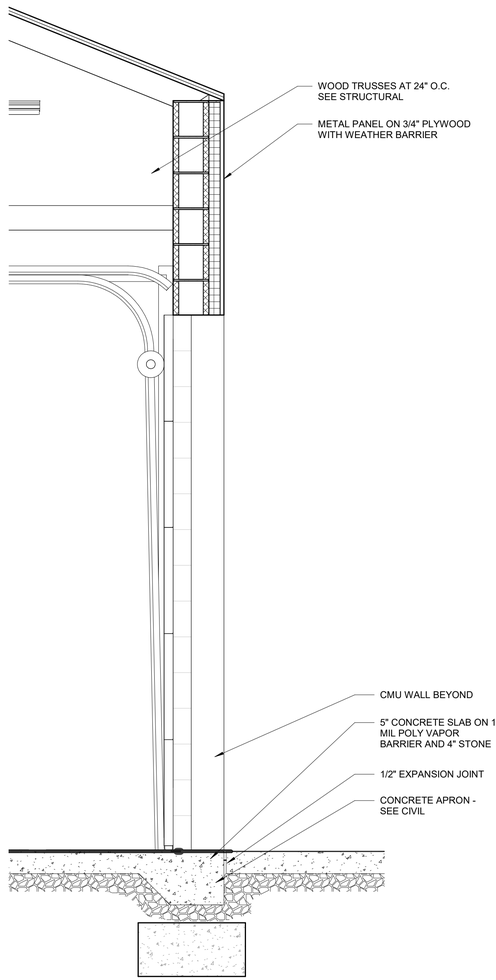
A1 MAINTENANCE WALL SECTION - SOFFIT

Scale: 3/4" = 1'-0"



A2 MAINTENANCE WALL SECTION - FOOTING

Scale: 3/4" = 1'-0"



A3 MAINTENANCE ROLL UP DOOR WALL SECTION

Scale: 3/4" = 1'-0"

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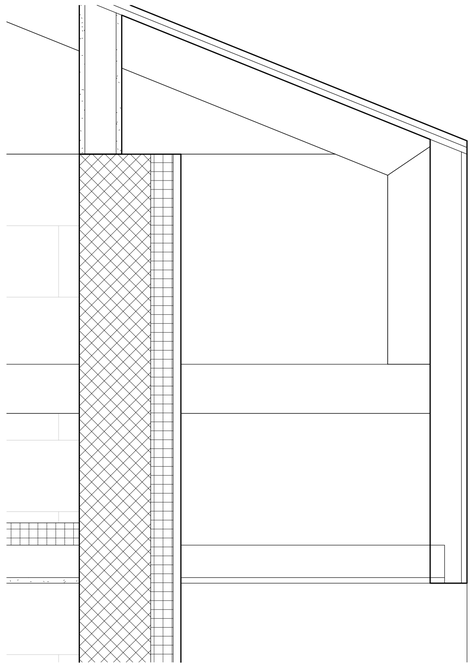
MAINTENANCE WALL SECTIONS

A332



A1 MAINTENANCE SOFFIT DETAIL

Scale: 1 1/2" = 1'-0"

5/14/2021 3:59:03 PM

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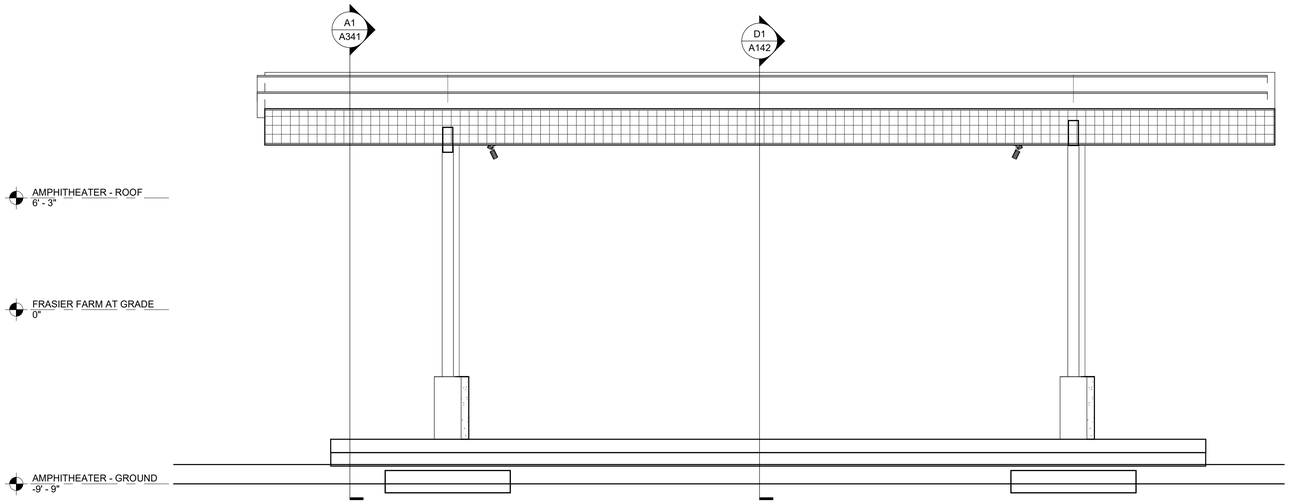
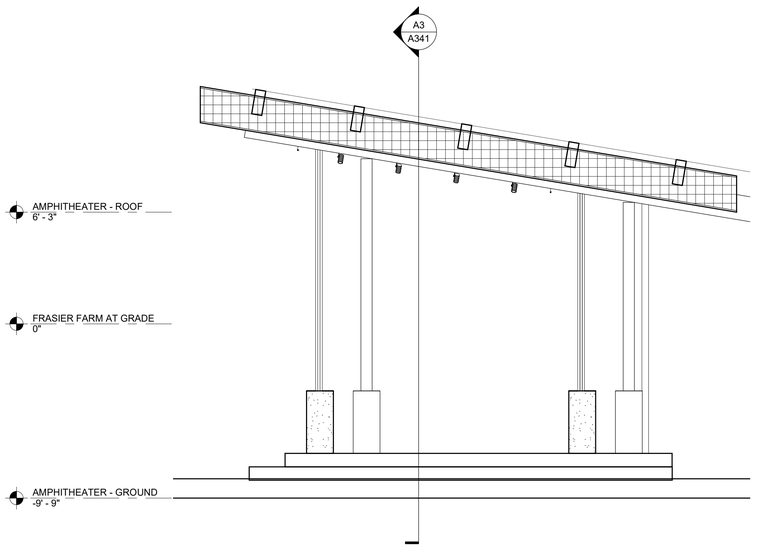
MAINTENANCE ENLARGED SECTION DETAILS

A333



A3 AMPITHEATER SECTION - SOUTH

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



0 1 2 4 8 16

A1 AMPHITHEATER SECTION - EAST

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

5/14/2021 3:59:04 PM

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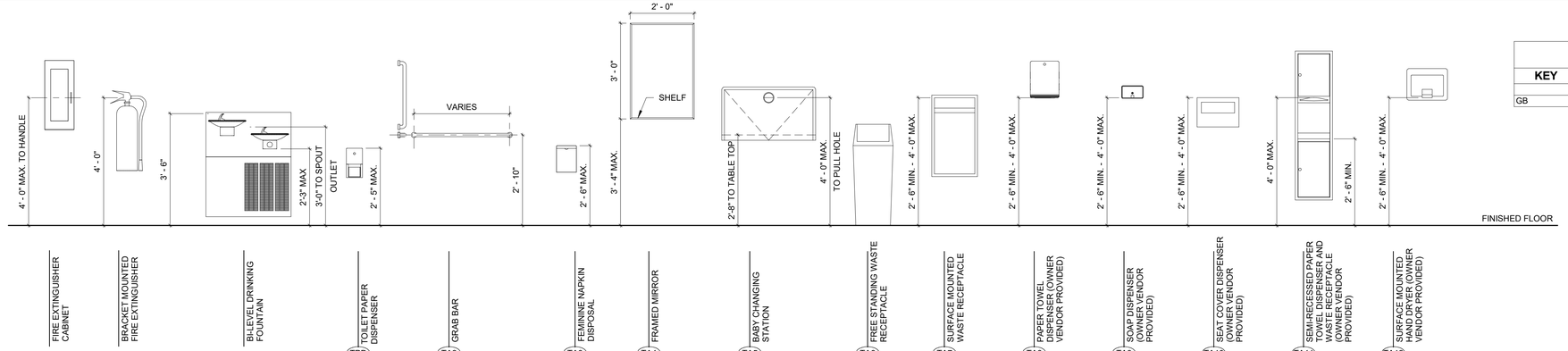
AMPHITHEATER BUILDING SECTIONS

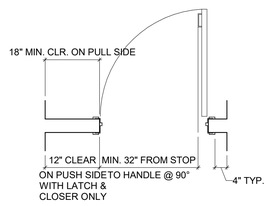
A341



TOILET ACCESSORY LEGEND	
KEY	ACCESSORY/FIXTURE
	GRAB BAR
GB	GRAB BAR

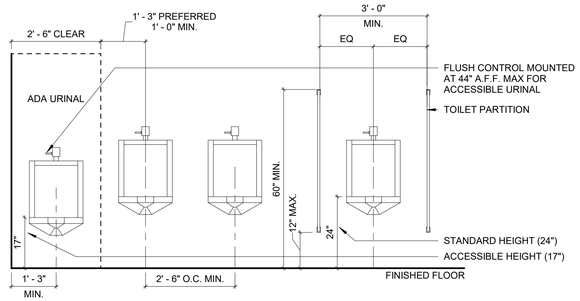
RESTROOM ACCESSORIES

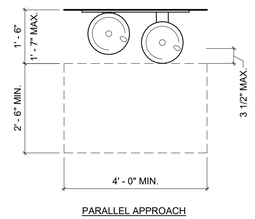
Scale: 1/2" = 1'-0"



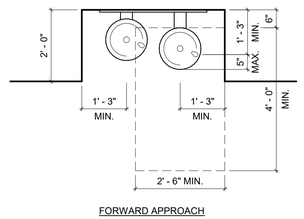
A3 DOOR CLEARANCES

Scale: 1/2" = 1'-0"





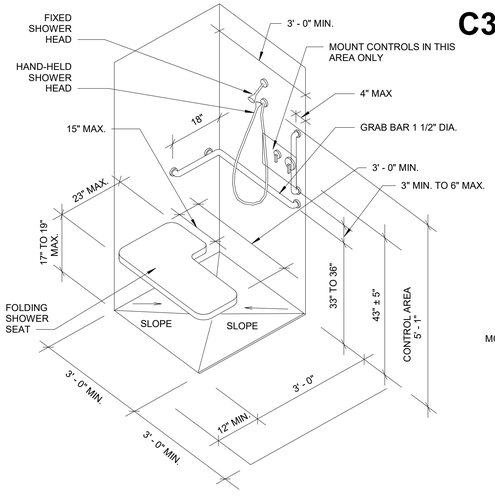
PARALLEL APPROACH

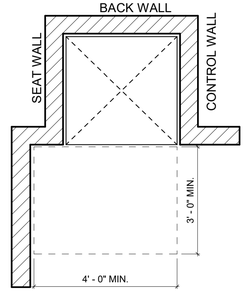


FORWARD APPROACH

C3 RESTROOM HEIGHTS

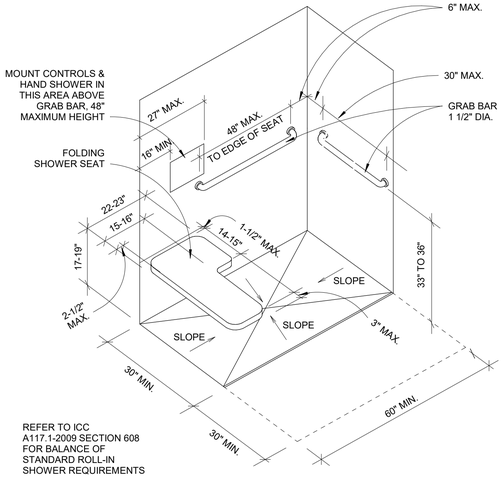
Scale: 1/2" = 1'-0"





A2 ADA ANSI SHOWER AXON AND PLAN

Scale: 1/2" = 1'-0"



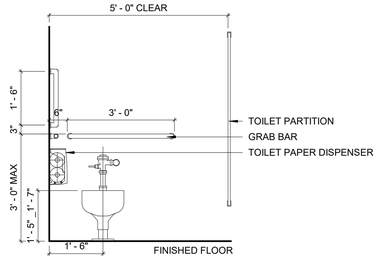
REFER TO ICC A117.1-2009 SECTION 608 FOR BALANCE OF STANDARD ROLL-IN SHOWER REQUIREMENTS

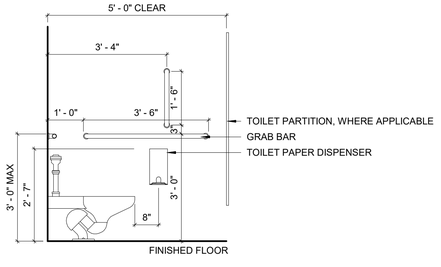
A5 ADA ROLL IN SHOWER AXON

Scale: 1/2" = 1'-0"

C4 TYPICAL DRINKING FOUNTAIN DIMENSIONS

Scale: 1/2" = 1'-0"



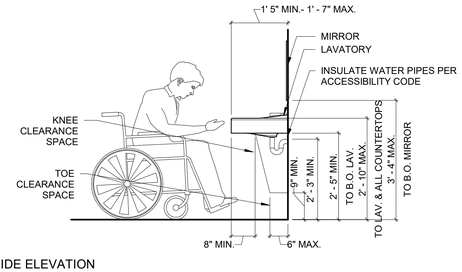


B3 RESTROOM HEIGHTS - FRONT

Scale: 1/2" = 1'-0"

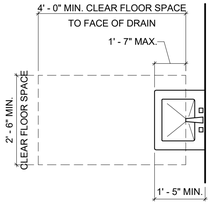
B4 RESTROOM HEIGHTS - SIDE VIEW

Scale: 1/2" = 1'-0"

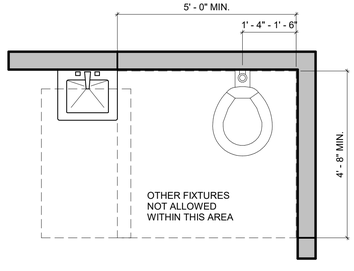


SIDE ELEVATION

NOTE:
FAUCET & CONTROLS SHOULD MEET ANSI 117.1 SECTION 606.4



PLAN



SIZE OF CLEARANCE FOR ACCESSIBLE WATER CLOSET

A4 LAVATORY ACCESSIBILITY

Scale: 1/2" = 1'-0"

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1 REVISIONS

NO.	DATE	DESCRIPTION

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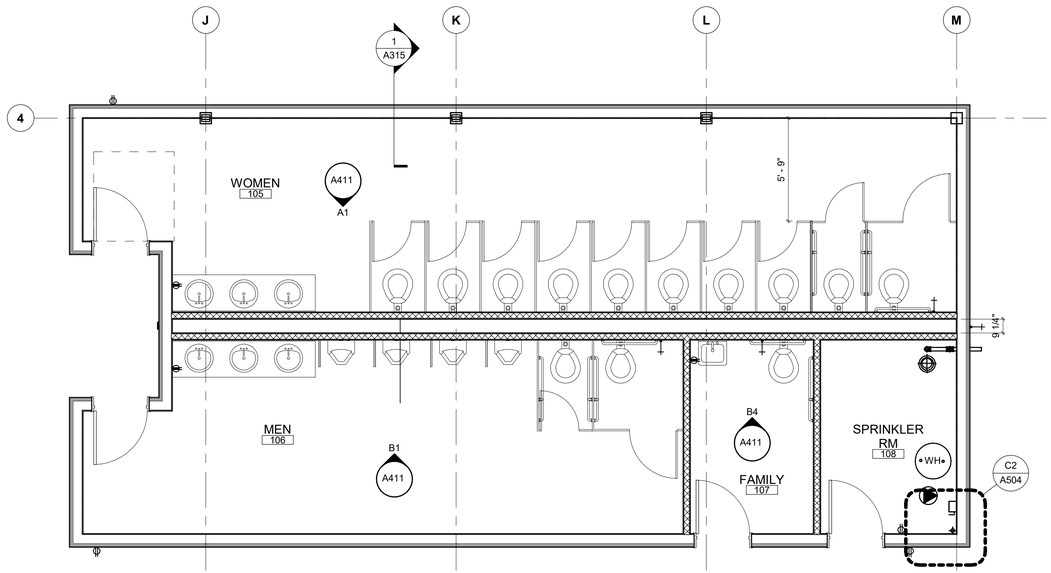
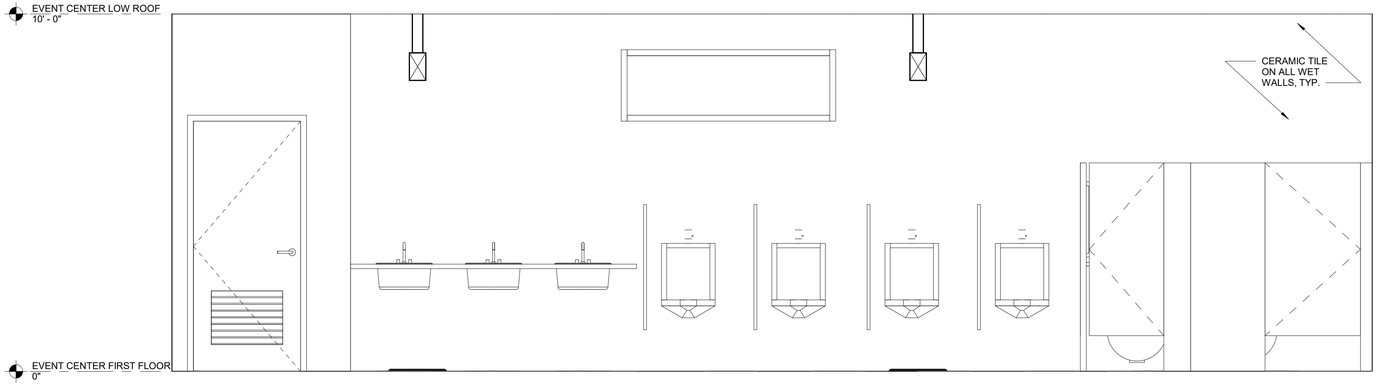
ADA ACCESSIBILITY & FIXTURE GUIDELINES

A401



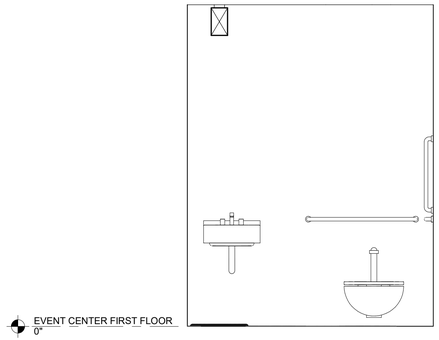
C1 EVENT CENTER ENLARGED FLOOR PLAN - RESTROOM

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



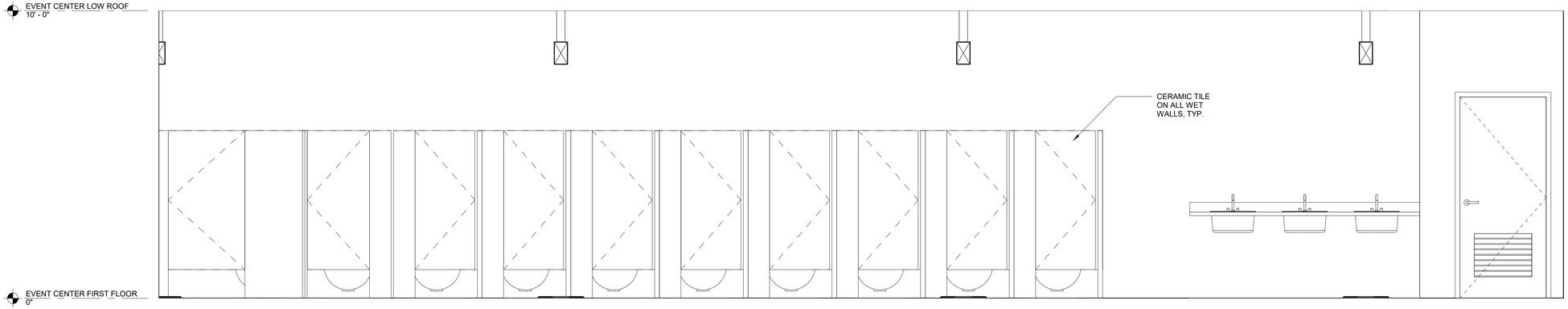
B1 INTERIOR ELEVATION - MEN'S RESTROOM

Scale: 1/2" = 1'-0"



B4 INTERIOR ELEVATION - FAMILY RESTROOM

Scale: 1/2" = 1'-0"



A1 INTERIOR ELEVATION - WOMAN'S RESTROOM

Scale: 1/2" = 1'-0"

0 1 2 4 8

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DATE	Issue Date

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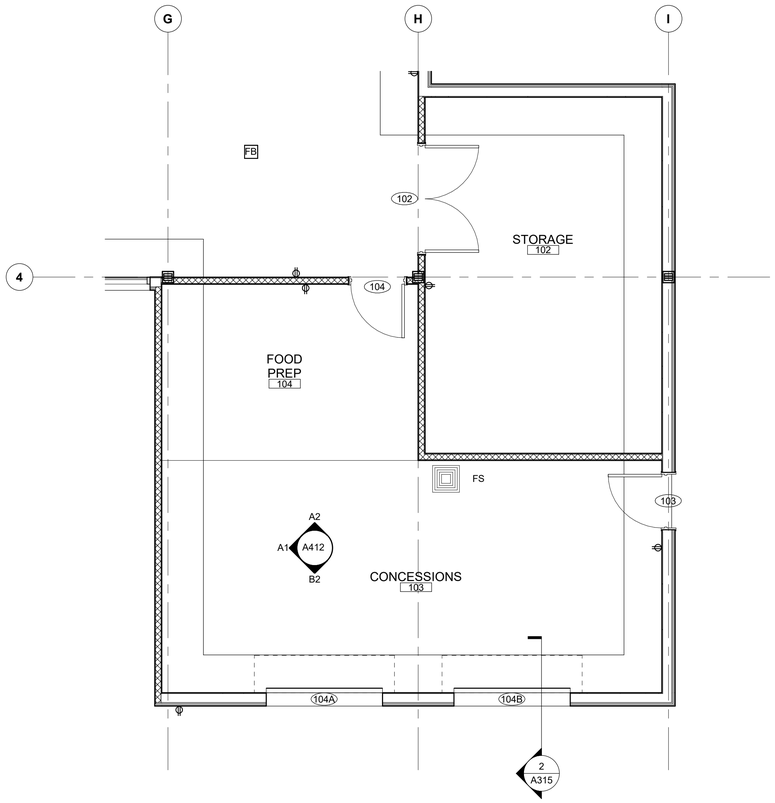
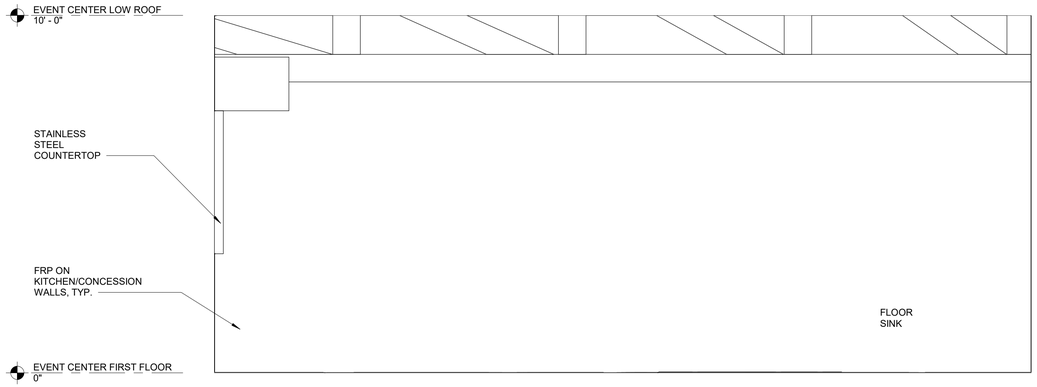
EVENT CENTER INTERIOR ELEVATIONS

A411



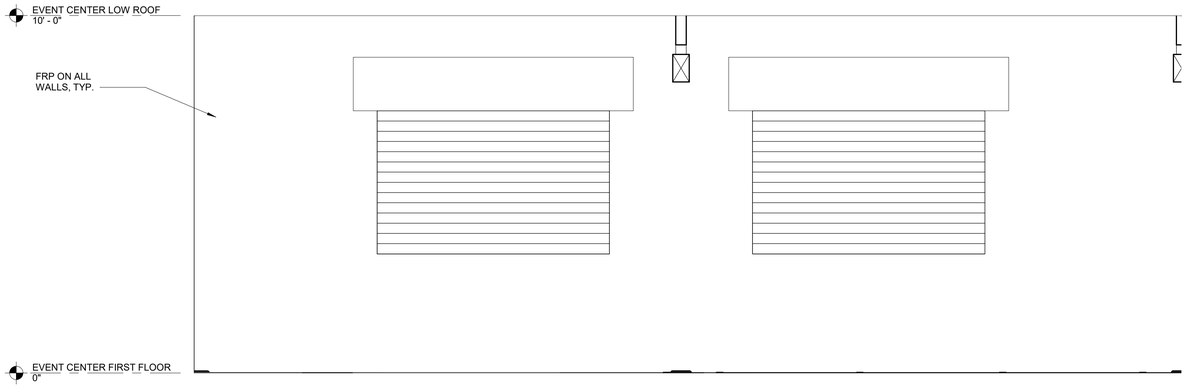
B1 EVENT CENTER ENLARGED FLOOR PLAN - CONCESSIONS

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



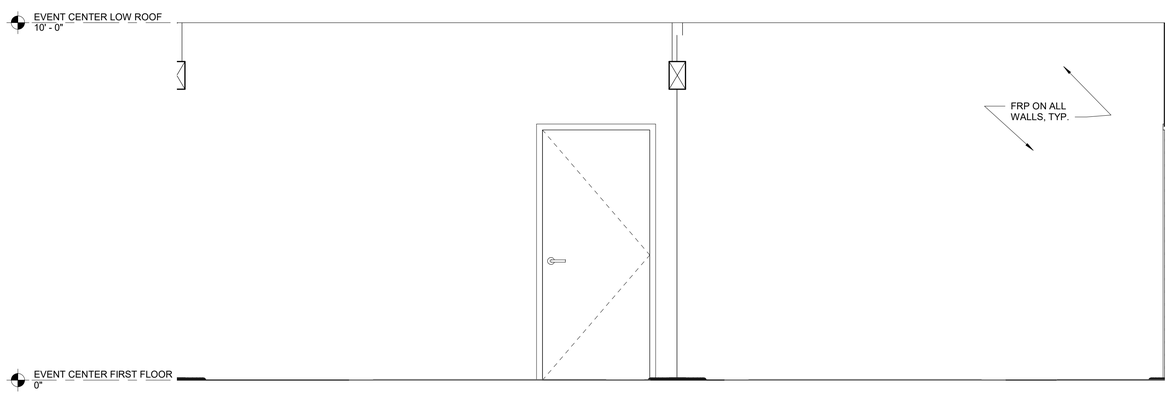
A1 KITCHEN/CONCESSIONS INTERIOR ELEVATION - WEST

Scale: 1/2" = 1'-0"



B2 KITCHEN/CONCESSIONS INTERIOR ELEVATION - SOUTH

Scale: 1/2" = 1'-0"



A2 KITCHEN/CONCESSIONS INTERIOR ELEVATION - NORTH

Scale: 1/2" = 1'-0"

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DATE	Issue Date

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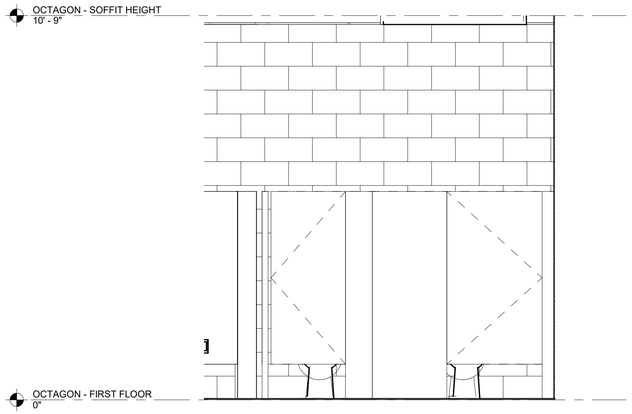
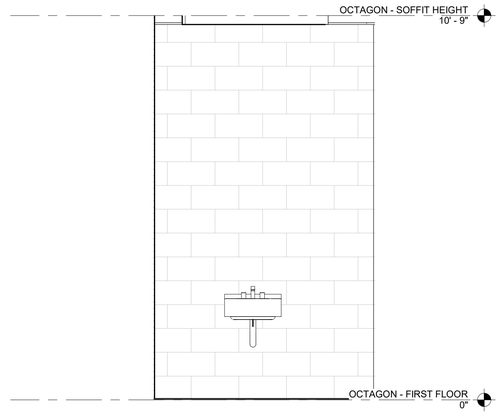
EVENT CENTER INTERIOR ELEVATIONS

A412



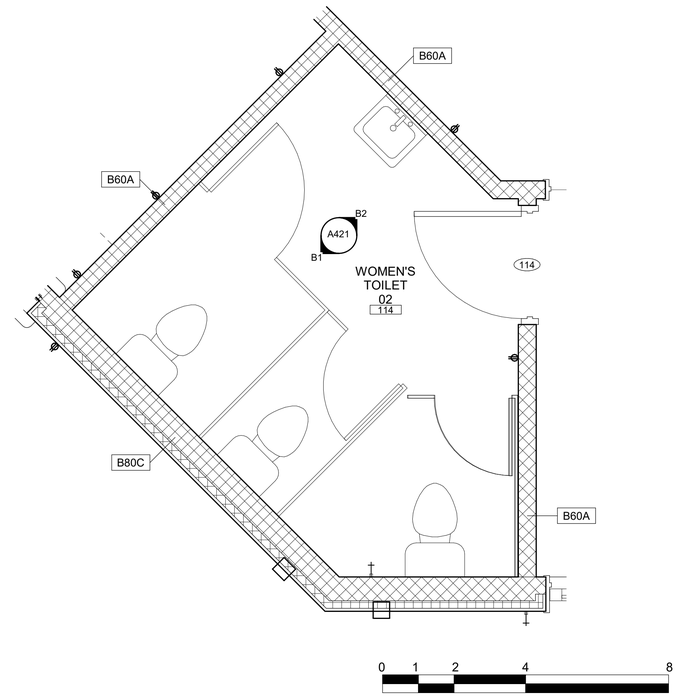
B1 OCTAGON - WOMEN'S TOILET 02 INTERIOR ELEVATION - SOUTH

Scale: 1/2" = 1'-0"



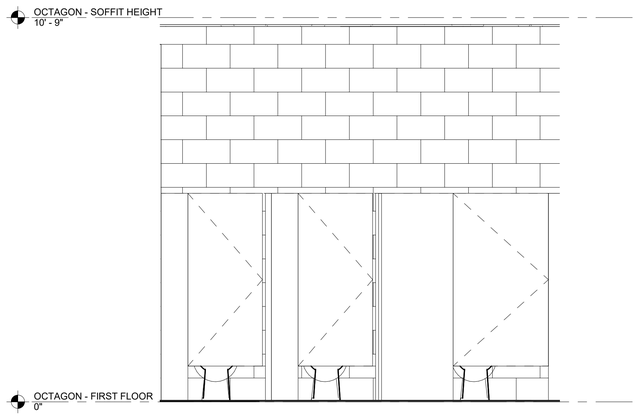
B2 OCTAGON - WOMEN'S TOILET 02 INTERIOR ELEVATION - NORTH

Scale: 1/2" = 1'-0"



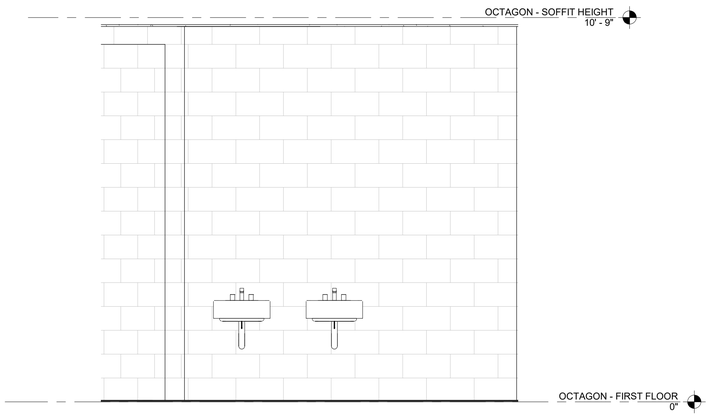
B3 OCTAGON - WOMEN'S TOILET ENLARGED PLAN

Scale: 1/2" = 1'-0"



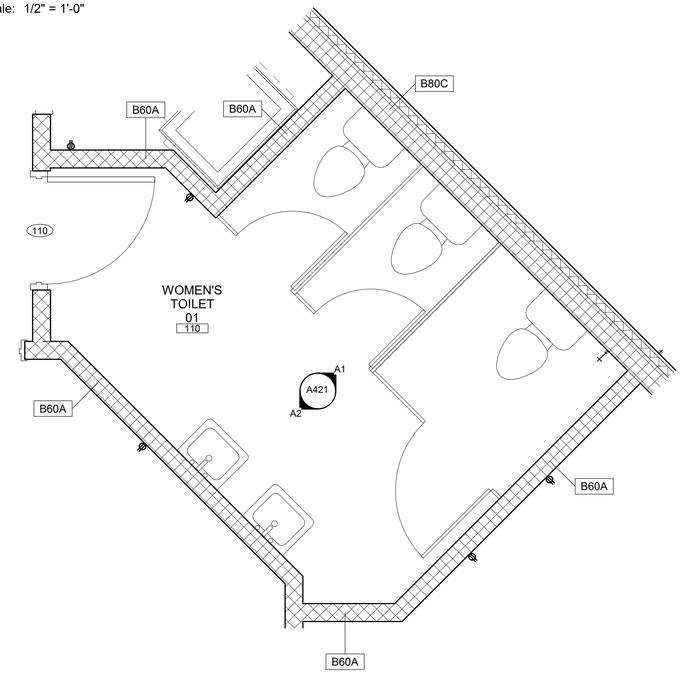
A1 OCTAGON - WOMEN'S TOILET 01 INTERIOR ELEVATION - NORTH

Scale: 1/2" = 1'-0"



A2 OCTAGON - WOMEN'S TOILET 01 INTERIOR ELEVATION - SOUTH

Scale: 1/2" = 1'-0"



A3 OCTAGON - WOMEN'S TOILET 01 ENLARGED PLAN

Scale: 1/2" = 1'-0"

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DRAWN BY	KD
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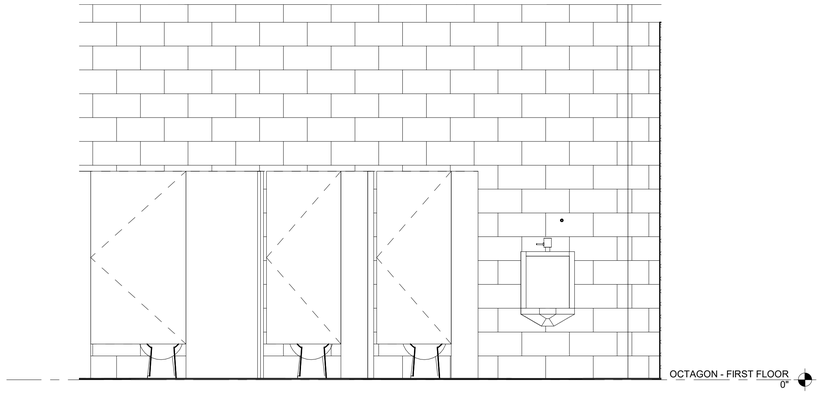
OCTAGON ENLARGED PLANS & INTERIOR ELEVATIONS

A421

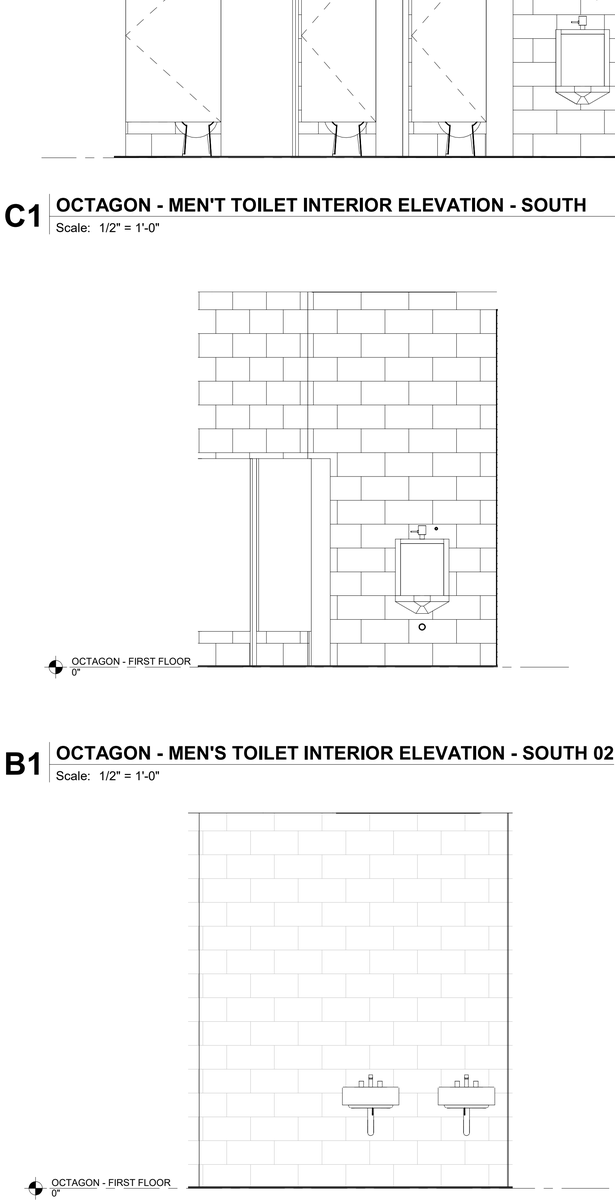


C1 OCTAGON - MEN'T TOILET INTERIOR ELEVATION - SOUTH

Scale: 1/2" = 1'-0"

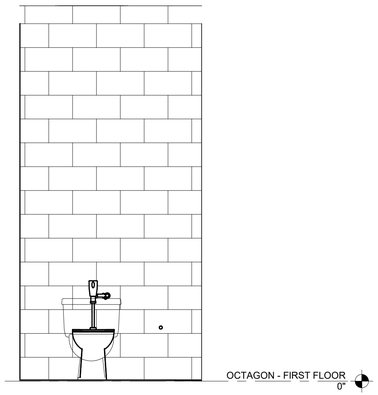
B1 OCTAGON - MEN'S TOILET INTERIOR ELEVATION - SOUTH 02

Scale: 1/2" = 1'-0"



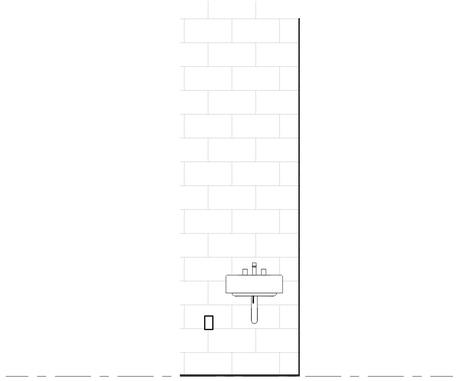
A1 OCTAGON - MEN'S TOILET INTERIOR ELEVATION - NORTH

Scale: 1/2" = 1'-0"



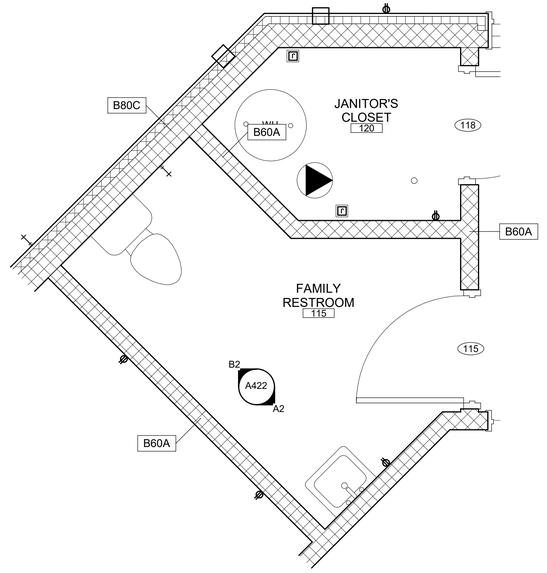
B2 OCTAGON - FAMILY RESTROOM INTERIOR ELEVATION - NORTH

Scale: 1/2" = 1'-0"



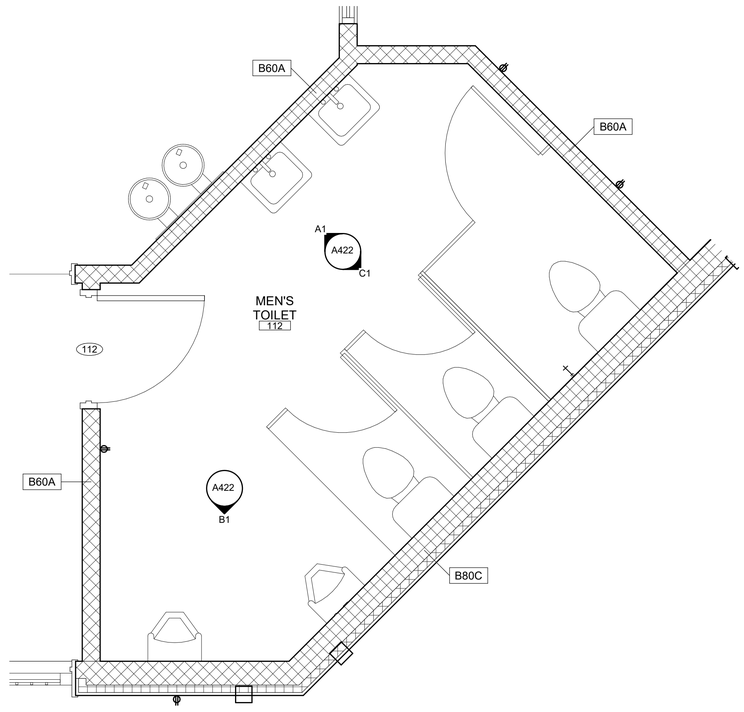
A2 OCTAGON - FAMILY RESTROOM INTERIOR ELEVATION - SOUTH

Scale: 1/2" = 1'-0"



C3 OCTAGON - FAMILY TOILET ENLARGED PLAN

Scale: 1/2" = 1'-0"



0 1 2 4 8 16

A3 OCTAGON - MEN'S TOILET ENLARGED PLAN

Scale: 1/2" = 1'-0"

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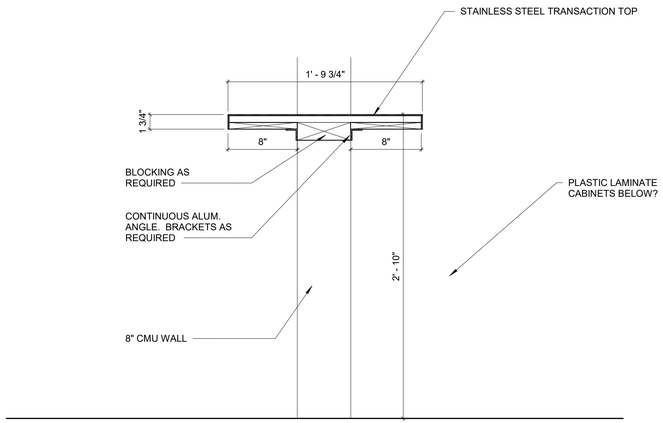
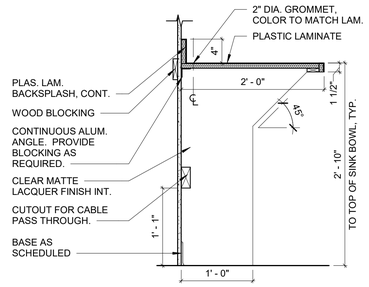
OCTAGON ENLARGED PLANS & INTERIOR ELEVATIONS

A422



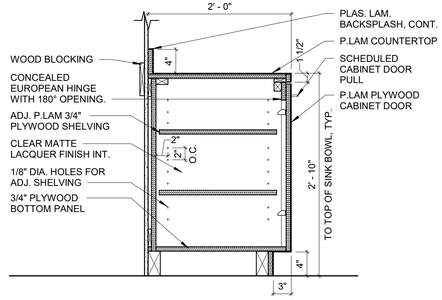
C1 SECTION AT FIRST FLOOR STAINLESS STEEL COUNTERTOP

Scale: 1 1/2" = 1'-0"



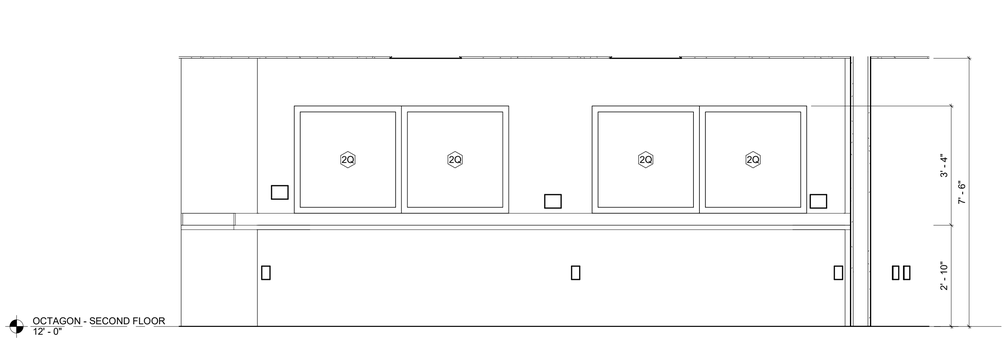
C2 SECTION AT BASE CABINET - PLAM

Scale: 1" = 1'-0"



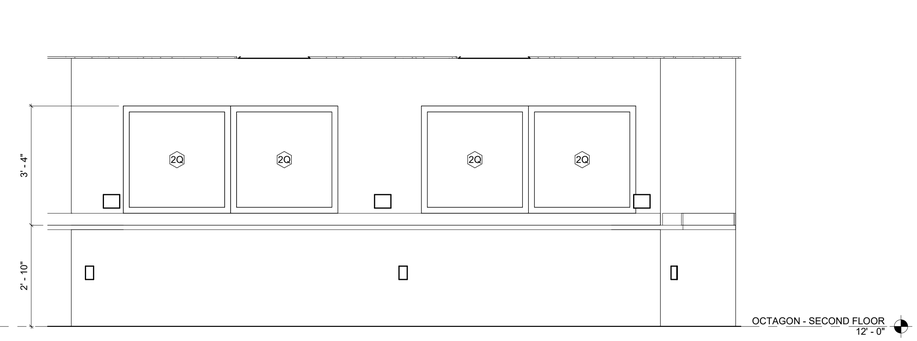
C3 SECTION AT BASE CABINET - PLAM

Scale: 1" = 1'-0"



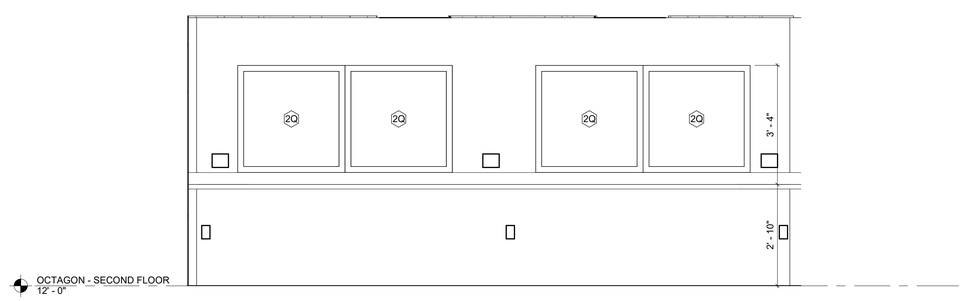
B1 OCTAGON - SECOND FLOOR PLAM CASEWORK NW

Scale: 1/2" = 1'-0"



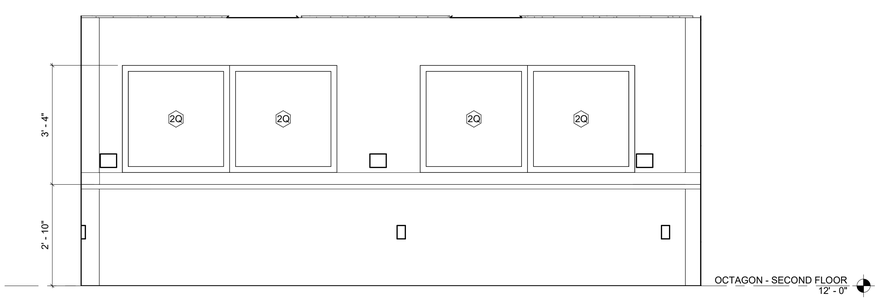
B3 OCTAGON - SECOND FLOOR PLAM CASEWORK SW

Scale: 1/2" = 1'-0"



A1 OCTAGON - SECOND FLOOR PLAM CASEWORK NE

Scale: 1/2" = 1'-0"



A3 OCTAGON - SECOND FLOOR PLAM CASEWORK SE

Scale: 1/2" = 1'-0"

0 1 2 4 8 16

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

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MICHAEL D. SUTTON REGISTERED ARCHITECT 9953 NORTH CAROLINA RALEIGH, N.C.

REVISIONS

NO.	DATE	DESCRIPTION

PLAN INFORMATION

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SCALE	SEE VIEW
DATE	Issue Date

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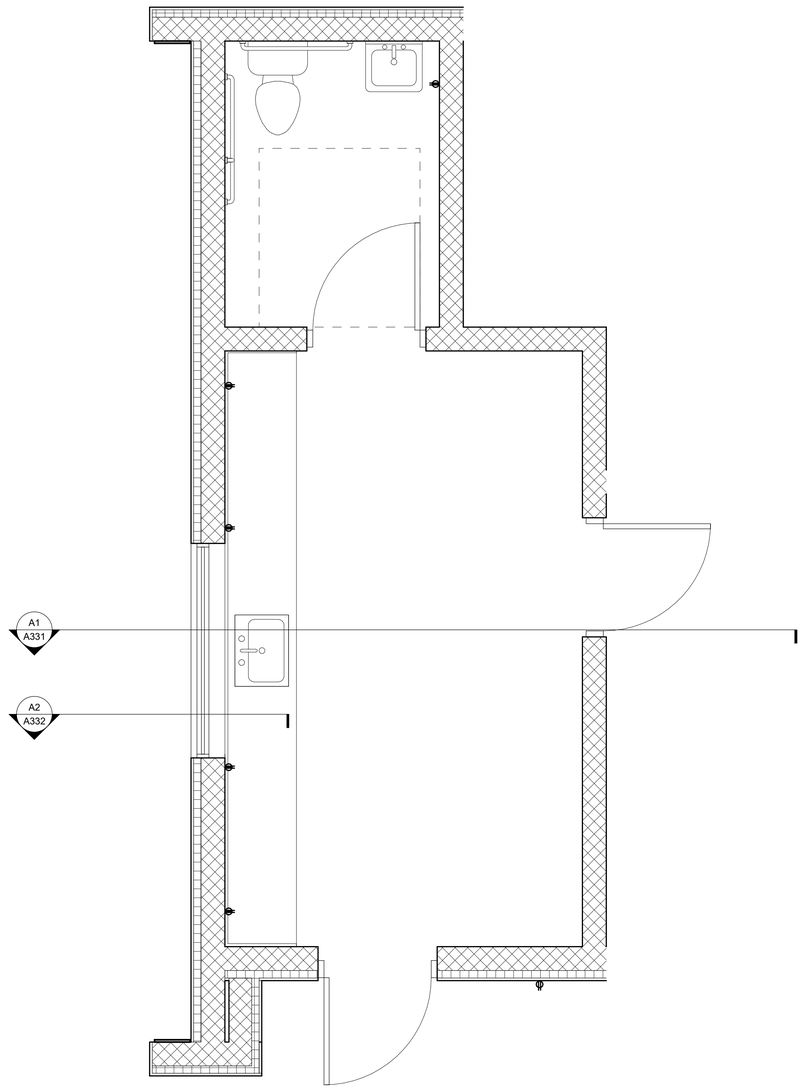
OCTAGON INTERIOR ELEVATIONS & CASEWORK DETAILS

A423



A1 MAINTENANCE RESTROOM

Scale: 1/2" = 1'-0"

5/14/2021 3:59:20 PM

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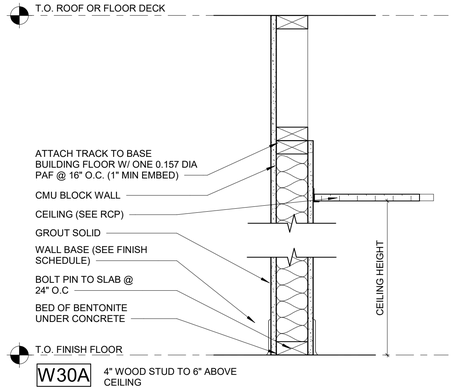
MAINTENANCE ENLARGED PLANS & INTERIOR ELEVATIONS

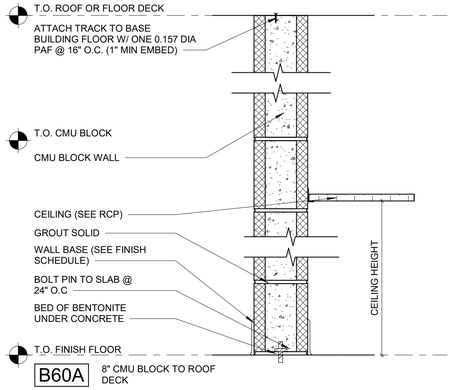
A431

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION



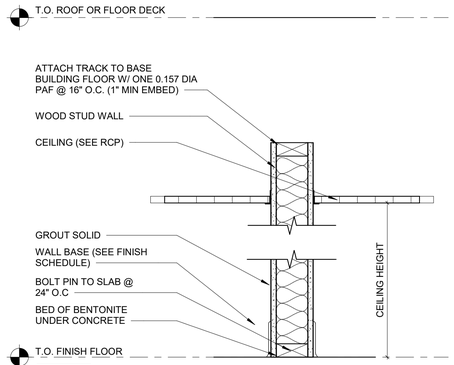
W30A 4" WOOD STUD TO 6" ABOVE CEILING

TEXT



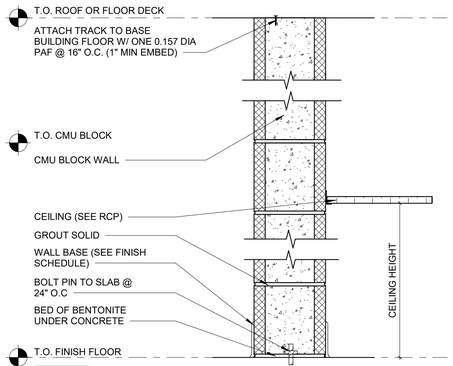
B60A 8" CMU BLOCK TO ROOF DECK

I HR RATED PER UL 905



W30B 4" WOOD STUD TO 6" ABOVE CEILING

TEXT



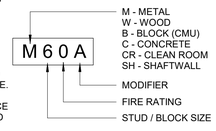
B81B 8" CMU BLOCK TO ROOF DECK

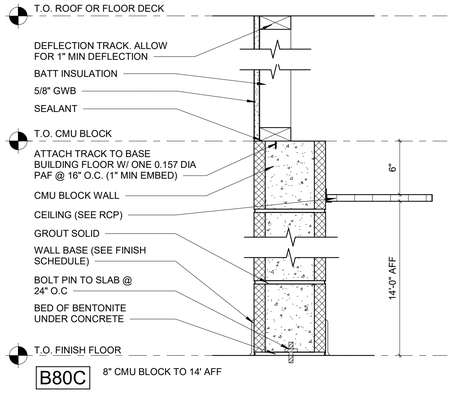
TEXT

NOTE: LIMITING HEIGHTS MAY VARY BY PROJECT REQUIREMENTS FOR LOADING DEFLECTION CRITERIA.

SEE ALSO TYPICAL BRIDGING ATTACHMENT DETAILS. ATTACH GWB TO METAL STUDS WITH #6 SCREWS MIN. @ 12" O.C. MAX. AND AS OTHERWISE REQUIRED BY CODE.

SEE ALSO UL DETAILS FOR BALANCE OF INFORMATION FOR ASSOCIATED WALL TYPES.

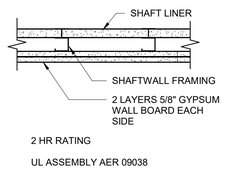




B80C 8" CMU BLOCK TO 14' AFF

WOOD STUDS AT 16" O.C. ABOVE

WALL TYPE LEGEND



2 HR RATING

UL ASSEMBLY AER 09038

A1 HORIZONTAL SHAFT ASSEMBLY

Scale: 1 1/2" = 1'-0"

WALL TYPES

Scale: 1 1/2" = 1'-0"

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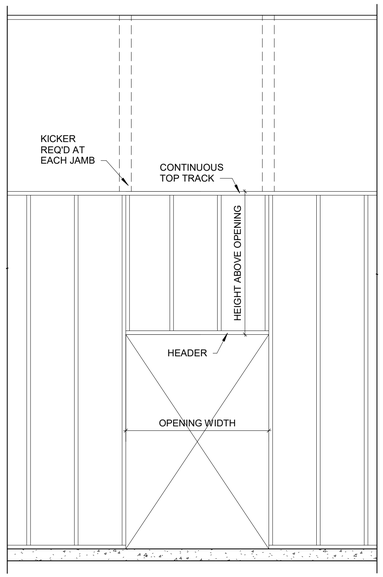
WALL TYPES

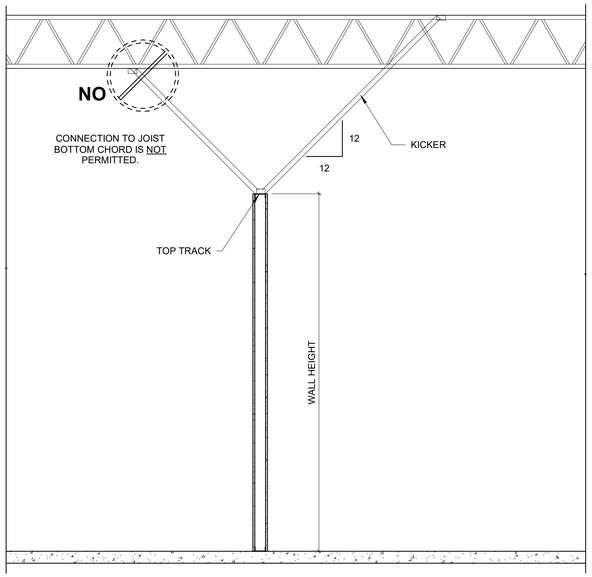
A501



362T125-XX

INTERIOR, NON-LOAD BEARING HEADER SPANS				
OPENING WIDTH	HEIGHT OF WALL ABOVE OPENING			
	2'-0	4'-0	6'-0	8'-0
3'-0	30 (20Ga - DRYWALL)	30 (20Ga - DRYWALL)	33 (20Ga - STRUCTURAL)	43 (18Ga.)
4'-0	30 (20Ga - DRYWALL)	33 (20Ga - STRUCTURAL)	43 (18Ga.)	
5'-0	33 20Ga - STRUCTURAL)	43 (18Ga.)		
6'-0	33 20Ga - STRUCTURAL)			

NOTES:
1.) TOP TRACK SHALL BE SAME SIZE AND GAGE AS HEADER.
2.) WEIGHT OF 5/8" GYPSUM SHEATHING ON BOTH SIDES HAS BEEN INCLUDED. SHEATHING MUST EXTEND FROM HEADER TO TOP TRACK.
3.) MAXIMUM LATERAL DEFLECTION = L/120, w/ 5 PSF INTERNAL PRESSURE.



362T125-30 (20Ga.-DRYWALL)

KICKER SPACING	
WALL HEIGHT	MAX SPACING
10'-0	8'-0
12'-0	7'-6
14'-0	7'-0
16'-0	6'-6

NOTES:
1.) MAXIMUM LATERAL DEFLECTION = L/120 w/ 5 PSF INTERNAL PRESSURE.
2.) KICKERS REQ'D AT ALL WALL OPENINGS IN ADDITION TO THOSE INDICATED ABOVE.

A3 TYPICAL SPAN AND BRACING DETAILS

Scale: 1/2" = 1'-0"

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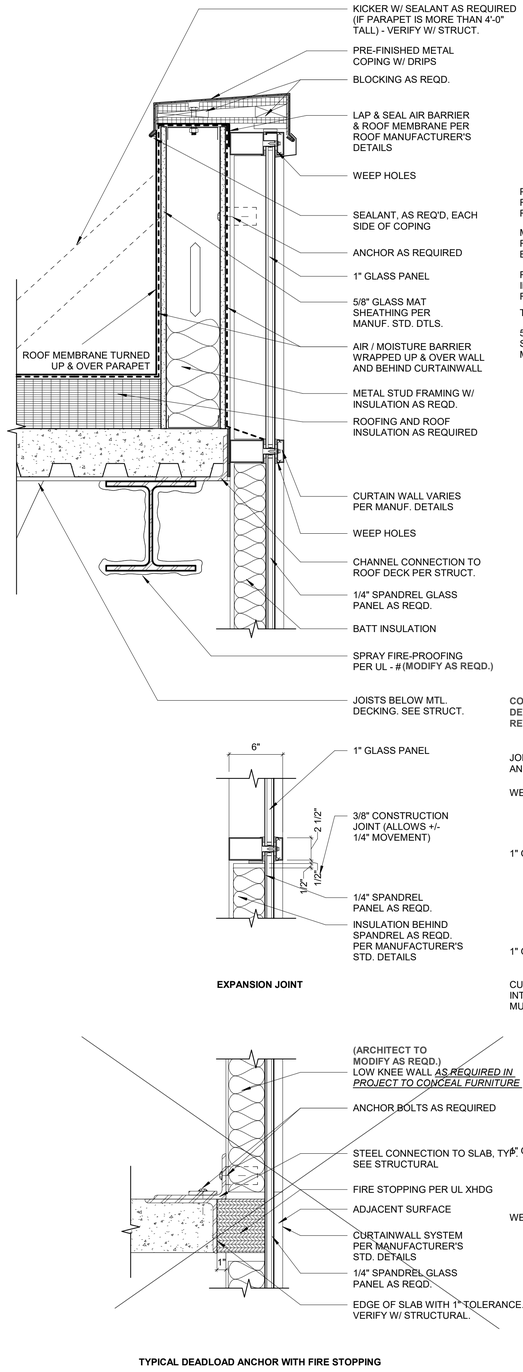
WALL FRAMING DETAILS

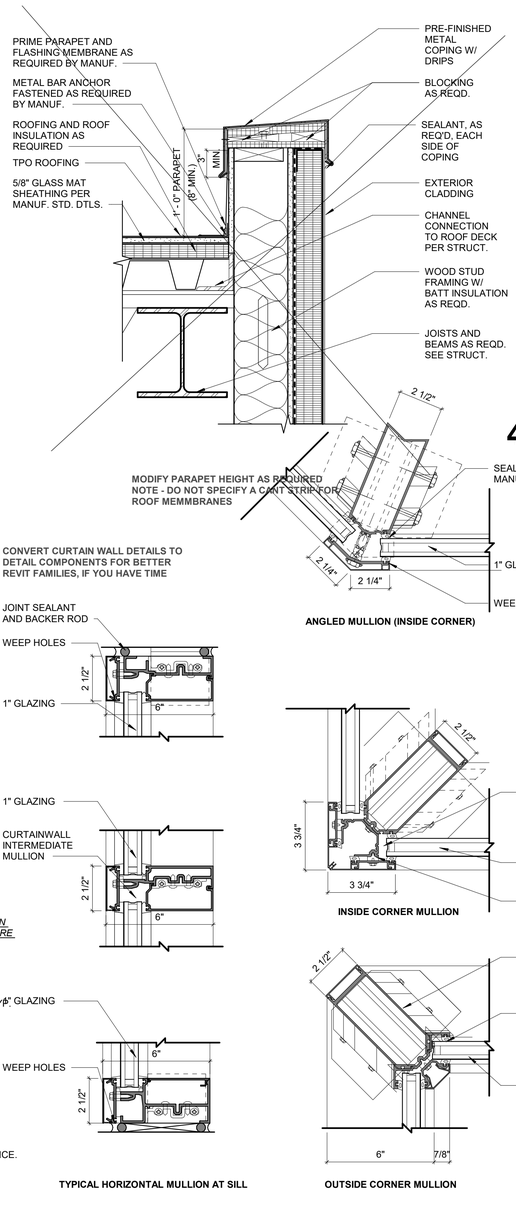
A502

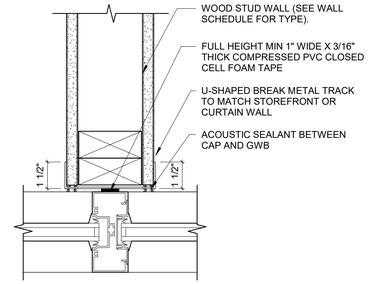
PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

HEAD TRANSOM AND PARAPET
FLASHING - OPTION #1
IIA BUILDINGS / CONCRETE ROOF DECKS

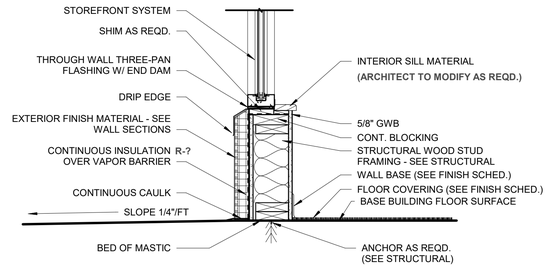


HEAD TRANSOM AND PARAPET
FLASHING - OPTION #2
IIB BUILDINGS, METAL DECK ROOFS





4 MULLION INTERSECTION DETAIL
Scale: 3" = 1'-0"



6 STOREFRONT SILL DETAIL
Scale: 1" = 1'-0"

TYPICAL DEADLOAD ANCHOR WITH FIRE STOPPING

3 CURTAINWALL SECTION
Scale: 1 1/2" = 1'-0"

CONVERT CURTAIN WALL DETAILS TO DETAIL COMPONENTS FOR BETTER REVIT FAMILIES, IF YOU HAVE TIME

EXPANSION JOINT

TYPICAL HORIZONTAL MULLION AT SILL

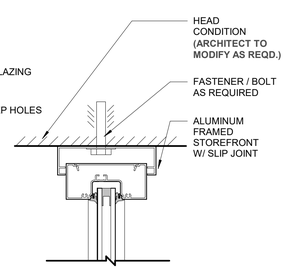
ANGLED MULLION (INSIDE CORNER)

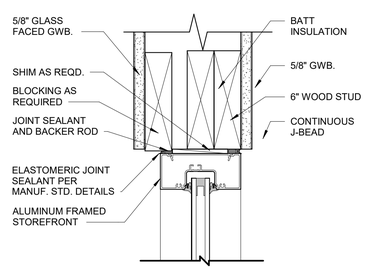
INSIDE CORNER MULLION

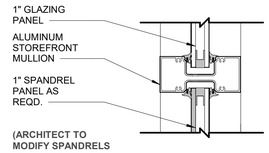
THIS CONDITION TO BE USED WHEN WINDOW IS FRAMED TO UNDERSIDE OF A STRUCTURAL MEMBER SLIP JOINT

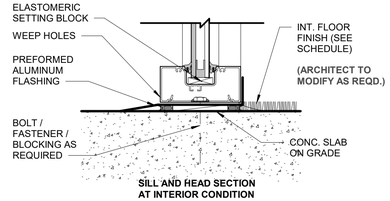
OUTSIDE CORNER MULLION

MODIFY PARAPET HEIGHT AS REQUIRED
NOTE - DO NOT SPECIFY A CANT STRIP FOR ROOF MEMMBRANES





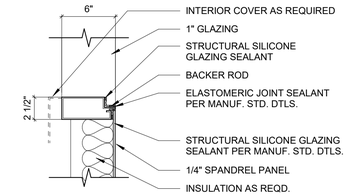




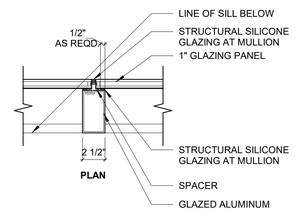
SILL AND HEAD SECTION AT INTERIOR CONDITION

NOTE:
STOREFRONT HEIGHT RANGE : 10'-0" - 12'-0"
CAN BE 14'-0" W/ STRUCTURAL BRACING

5 STOREFRONT MULLIONS
Scale: 3" = 1'-0"



4-SIDED STRUCTURAL SILICONE GLAZING AT SPANDREL - SECTION



PLAN

4-SIDED STRUCTURAL SILICONE GLAZING - PLAN

1 4-SIDED STRUCTURAL GLAZING MULLION
Scale: 1 1/2" = 1'-0"

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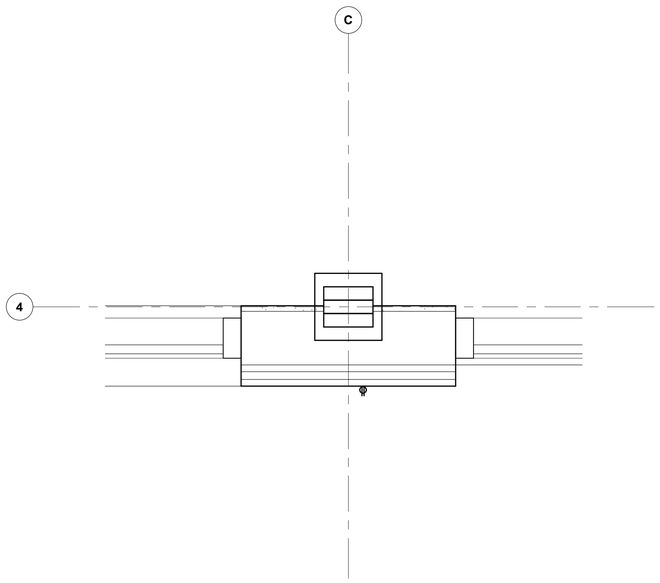
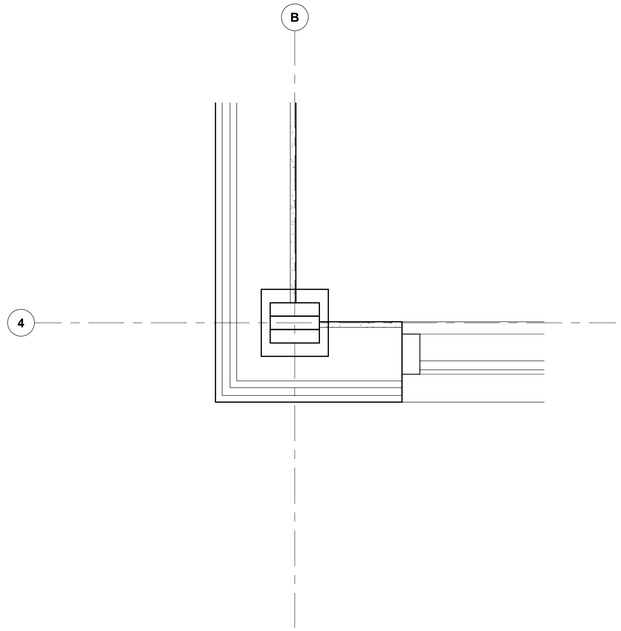
DETAILS

A503



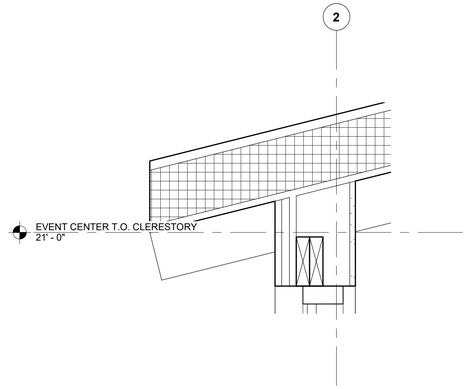
C1 EVENT CENTER PLAN DETAIL - COLUMN

Scale: 1 1/2" = 1'-0"



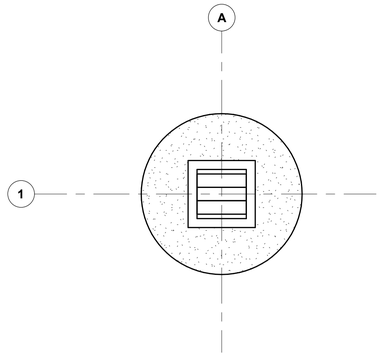
C2 EVENT CENTER PLAN DETAIL - COLUMN CORNER

Scale: 1 1/2" = 1'-0"



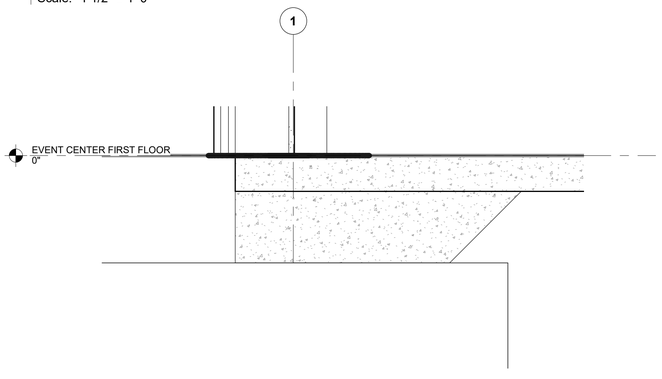
C3 EVENT CENTER - CLERESTORY WALL SECTION - ROOF

Scale: 1 1/2" = 1'-0"



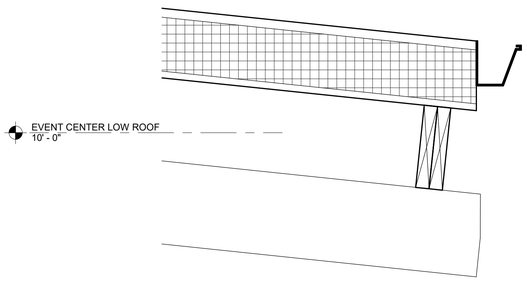
B1 EVENT CENTER EXTERIOR COLUMN DETAIL

Scale: 1 1/2" = 1'-0"



A1 EVENT CENTER WALL SECTION - FOOTING DETAIL

Scale: 1 1/2" = 1'-0"



A2 EVENT CENTER SECTION- GUTTER

Scale: 1 1/2" = 1'-0"

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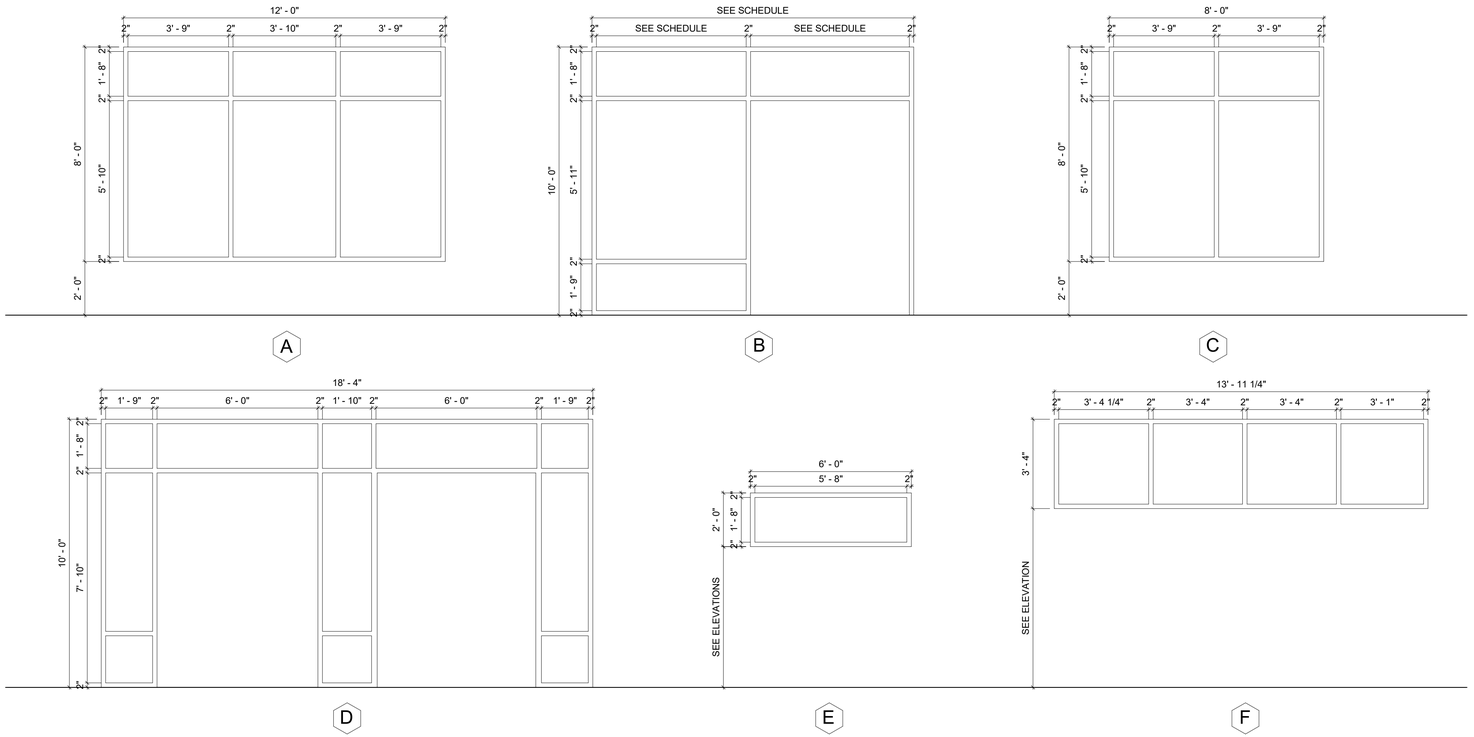
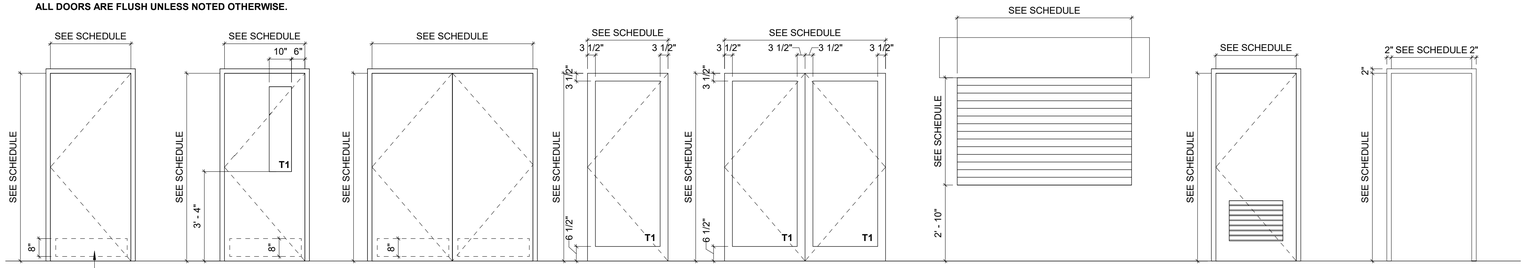
EVENT CENTER PLAN DETAILS

A504



EVENT CENTER WINDOW/STORREFRONT ELEVATION

NOTES: 'T1' = 1/4" TEMPERED GLASS TO MATCH BUILDING STANDARD TINT.
REFER TO PLANS FOR SWING DIRECTION.
REFER TO DOOR SCHEDULE FOR HARDWARE.
ALL DOORS ARE FLUSH UNLESS NOTED OTHERWISE.



EVENT CENTER - DOOR ELEVATIONS

Scale: 3/8" = 1'-0"

DOOR SCHEDULE - EVENT CENTER

NO.	DESCRIPTION	TYPE	SIZE	FIRE RATING	FRAME TYPE	FRAME ELEV.	DOOR HARDWARE	COMMENTS
101A	ALUMINUM STOREFRONT DOOR	PM	3' - 0" x 8' - 0" & 3' - 0" x 8' - 0"		ALUM.	D		
101B	ALUMINUM STOREFRONT DOOR	PM	3' - 0" x 8' - 0" & 3' - 0" x 8' - 0"		ALUM.	D		
101C	ALUMINUM STOREFRONT DOOR	PM	3' - 0" x 8' - 0" & 3' - 0" x 8' - 0"		ALUM.	B		
101D	ALUMINUM STOREFRONT DOOR	PM	3' - 0" x 8' - 0" & 3' - 0" x 8' - 0"		ALUM.	B		
101E	ALUMINUM STOREFRONT DOOR	PM	3' - 0" x 8' - 0" & 3' - 0" x 8' - 0"		ALUM.	B		
101F	ALUMINUM STOREFRONT DOOR	PM	3' - 0" x 8' - 0" & 3' - 0" x 8' - 0"		ALUM.	B		
102	SOLID CORE WOOD DOOR	P	3' - 0" x 7' - 0" & 3' - 0" x 7' - 0"		HM	I		
103	SOLID CORE WOOD DOOR	S	3' - 0" x 7' - 0"		HM	I		
104	SOLID CORE WOOD DOOR	S	3' - 0" x 7' - 0"		HM	I		
104A	OVERHEAD ROLLING DOOR	RUD	6' - 6" x 4' - 0"		HM	BY MANUF.	BY MANUF.	
104B	OVERHEAD ROLLING DOOR	RUD	6' - 6" x 4' - 0"		HM	BY MANUF.	BY MANUF.	
105	SOLID CORE WOOD DOOR	SL	3' - 0" x 7' - 0"		HM	I		
106	SOLID CORE WOOD DOOR	SL	3' - 0" x 7' - 0"		HM	I		
107	SOLID CORE WOOD DOOR	SL	3' - 0" x 7' - 0"		HM	I		
108	SOLID CORE WOOD DOOR	SL	3' - 0" x 7' - 0"		HM	I		

DOOR ACCESSIBILITY NOTES

1. THRESHOLDS MUST MEET NCSBC AND ADA REQUIREMENTS.

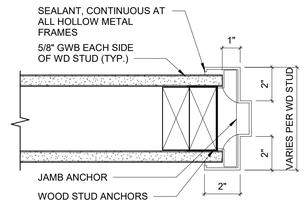
2. DOOR CLOSERS SHALL BE CERTIFIED BY THE MANUFACTURER TO MEET THE REQUIREMENTS OF THE ADA AND NCSBC. INSTALLATION AND ADJUSTMENTS MUST ALSO COMPLY FOR OPERATIONAL CRITERIA. FOR EXAMPLE, THE FORCE TO OPEN INTERIOR DOORS MUST NOT EXCEED 5 POUNDS AND EXTERIOR DOORS MUST NOT EXCEED 8-1/2 POUNDS.

3. DOOR CLOSERS SHALL MEET THE NCSBC REQUIREMENTS FOR SWEEP PERIOD.

4. ALL CONTROLS, DEVICES, HANDLES, LATCHES, THRESHOLDS, TRANSITIONS, AND RAMPS SHALL COMPLY WITH THE NCSBC & THE AMERICANS W/ DISABILITIES ACT. COORDINATE ANY DISCREPANCIES WITH TENANT, BUILDING OWNER, AND ARCHITECT.

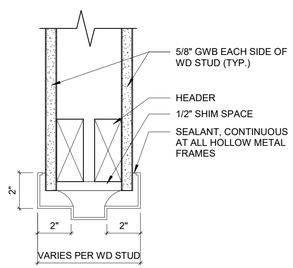
DOOR HARDWARE LEGEND

ABV.	HARDWARE TYPE
ACCESS CONTROL	
BR	BIOMETRIC READER
CR	CARD READER
PR	PROXIMITY READER
SC	SECURITY KEYPAD LOCK
BASIC HARDWARE	
CL	CLOSER
KL	KEYED (ENTRANCE/OFFICE) LOCK
PL	PRIVACY SET
PP	PUSH, PULL
PPL	PUSH/PULL LATCH
PS	PASSAGE SET
DOOR EDGE TREATMENT	
DG	DROP DOWN GASKET
DS	DOOR SWEEP
SG1	DOOR PERIMETER GASKET IN KERFED FRAME
SG2	DOOR PERIMETER GASKET IN KERFED FRAME WITH DOOR SWEEP
SG3	DOOR PERIMETER GASKET IN KERFED FRAME WITH DOWN DOOR SEAL
WS	WEATHER STRIPPING
DOOR PROTECTION	
AP	36" ARMOR PLATE
KP	16" KICK PLATE
MP	6" MOP PLATE
SP	STRETCHER PLATE EACH SIDE OF DOOR (CRASH DOORS)
DOUBLE DOORS	
AS	ASTRAGAL
CO	COORDINATOR
DS	DUST-PROOF STRIKE
FB	FLUSH BOLTS
RM	REMOVEABLE MULLION
ELECTRIFIED HARDWARE	
ED	ELECTRIFIED DOOR LOCKSET
ES	ELECTRIC STRIKE
LG	LOCK GUARDS
MH	MAGNETIC HOLD OPEN
ML1	MAGNETIC LOCK WITH APPROACH SENSOR AND PUSH TO EXIT POWER INTERRUPTION
ML2	MAGNETIC LOCK WITH LISTED ELECTROMAGNETIC RELEASE
ML3	MAGNETIC LOCK WITH INTERLOCK AND LISTED ELECTROMAGNETIC RELEASE
FIRE EXIT HARDWARE	
EA	EXIT ALARM
EL	EXIT (ONLY) LOCK
FEH1	FIRE EXIT HARDWARE RIM (SINGLE OR DOUBLE DOOR)
FEH2	FIRE EXIT HARDWARE CONCEALED VERTICAL RODS (FOR DOUBLE DOORS)
FEH3	FIRE EXIT HARDWARE SURFACE MOUNTED (FOR DOUBLE DOORS)
FEH3	FIRE EXIT HARDWARE SURFACE MOUNTED LESS BOTTOM ROD
MISC.	
DB	CYLINDER & DEAD BOLT
KS	KICK STOP
ML	MORTISE LOCK
OV	OVERHEAD STOP
PK	PULL KNOB
SCL	STOP ARM CLOSER
SF	FLOOR STOP
SGTL	STOREFRONT CYLINDER W/ THUMB LATCH
SL	STOREROOM LOCK
SW	WALL STOP
TL	THUMB LATCH
PANIC HARDWARE	
PH1	PANIC HARDWARE RIM DEVICE (SINGLE OR DOUBLE DOOR)
PH2	PANIC HARDWARE CONCEALED VERTICAL RODS (DOUBLE DOORS)
PH3	PANIC HARDWARE SURFACE MOUNTED (FOR DOUBLE DOORS)
PH4	PANIC HARDWARE SURFACE MOUNTED LESS BOTTOM ROD (FOR DOUBLE DOORS)
THRESHOLDS	
T1	ALUMINUM THRESHOLD
T2	MARBLE THRESHOLD



HM DOOR JAMB @ WD STUD

Scale: 3" = 1'-0"



HM DOOR HEAD (WD)

Scale: 3" = 1'-0"

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REVISIONS

NO.	DATE	DESCRIPTION

PLAN INFORMATION

PROJECT NO.	TORLRPMP
FILENAME	TORLRPMP_CENTRAL_2020
CHECKED BY	MDS
DRAWN BY	EEW
SCALE	SEE VIEW
DATE	Issue Date

SHEET

EVENT CENTER DOOR SCHEDULE AND DETAILS

A611

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

5/14/2021 3:59:25 PM

DOOR ACCESSIBILITY NOTES

1. THRESHOLDS MUST MEET NCSBC AND ADA REQUIREMENTS.
2. DOOR CLOSERS SHALL BE CERTIFIED BY THE MANUFACTURER TO MEET THE REQUIREMENTS OF THE ADA AND NCSBC. INSTALLATION AND ADJUSTMENTS MUST ALSO COMPLY FOR OPERATIONAL CRITERIA. FOR EXAMPLE, THE FORCE TO OPEN INTERIOR DOORS MUST NOT EXCEED 5 POUNDS AND EXTERIOR DOORS MUST NOT EXCEED 8-1/2 POUNDS.
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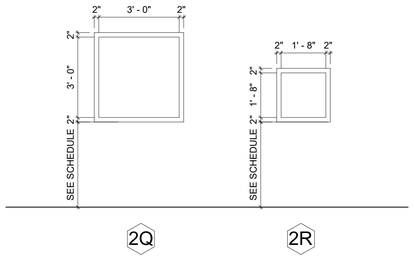
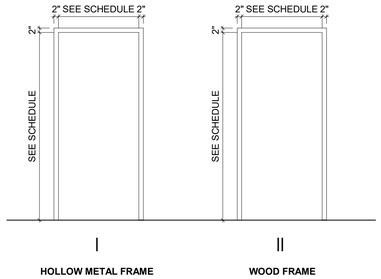


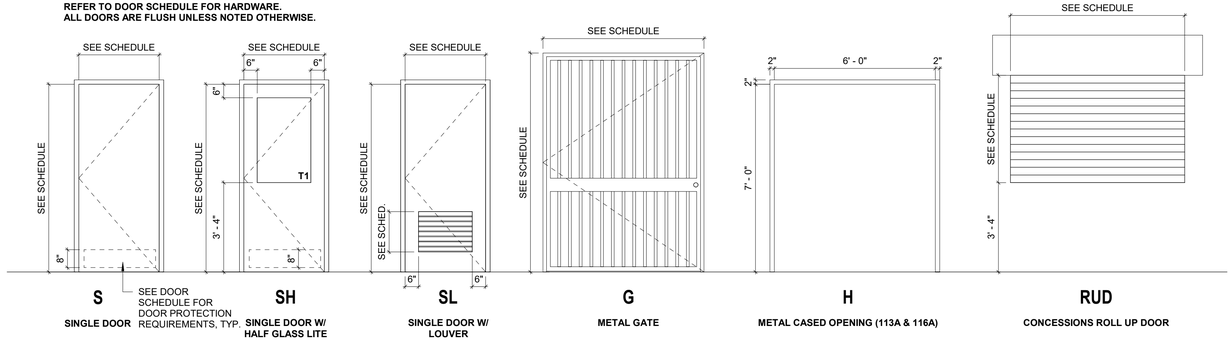


OCTAGON WINDOW & DOOR FRAME ELEVATIONS

DOOR SCHEDULE - OCTAGON

NO.	DESCRIPTION	TYPE	SIZE	FIRE RATING	FRAME TYPE	FRAME ELEV.	DOOR HARDWARE	COMMENTS
109	HOLLOW METAL DOOR	SL	3' - 0" x 7' - 0"		HM	I	KL CL CR ED DS T1	
110	HOLLOW METAL DOOR	SL	3' - 0" x 7' - 0"		HM	I	PL ED DS T1	
111	HOLLOW METAL DOOR	S	3' - 0" x 7' - 0"		HM	I	KL CL CR MH PH1 KP SG1 T1	
111A	OVERHEAD ROLLING DOOR	RUD	5' - 6" x 4' - 0"		HM	I	KL SC	ROLL UP DOOR
111B	OVERHEAD ROLLING DOOR	RUD	5' - 6" x 4' - 0"		HM	I	KL SC	ROLL UP DOOR
112	HOLLOW METAL DOOR	SL	3' - 0" x 7' - 0"		HM	I	PL ED DS T1	
113	METAL GATE OPENING	G	6' - 0" x 8' - 0"		HM	SEE MANUF.	KL CL ML3 PH1 WS T2	METAL GATE
114	HOLLOW METAL DOOR	SL	3' - 0" x 7' - 0"		HM	I	PL ED DS T1	
115	HOLLOW METAL DOOR	SL	3' - 0" x 7' - 0"		HM	I	PL ED DS T1	
116	METAL GATE OPENING	G	6' - 0" x 8' - 0"		HM	SEE MANUF.	KL CL ML3 PH1 WS T2	METAL GATE
118	HOLLOW METAL DOOR	SL	3' - 0" x 7' - 0"		HM		KL CL CR ED MP DS T1	
118A	OVERHEAD ROLLING DOOR	RUD	5' - 6" x 4' - 0"		HM	I	KL SC	ROLL UP DOOR
119A	OVERHEAD ROLLING DOOR	RUD	5' - 6" x 4' - 0"		HM	I	KL SC	ROLL UP DOOR
121	HOLLOW METAL DOOR	S	3' - 0" x 7' - 0"		HM	I	KL CL CR MH PH1 KP SG1 T1	
122	HOLLOW METAL DOOR	S	3' - 0" x 7' - 0"	60 MIN	HM	I	KL CL MH PH1 KP SG1 T1	
122A	HOLLOW METAL DOOR	S	3' - 0" x 7' - 0"	60 MIN	HM	I	KL SC MH PH1 KP WS T1	
122B	HOLLOW METAL DOOR	S	3' - 0" x 7' - 0"	60 MIN	HM	I	KL CL CR MH PH1 KP AS T1	
124	SOLID CORE WOOD DOOR	SH	3' - 0" x 7' - 0"		WD	II	KL CL CR ES SG1	
125	SOLID CORE WOOD DOOR	SH	3' - 0" x 7' - 0"		WD	II	KL CL CR ES SG1	
126	SOLID CORE WOOD DOOR	SH	3' - 0" x 7' - 0"		WD	II	KL CL CR ES SG1	

NOTES: 'T1' = 1/4" TEMPERED GLASS TO MATCH BUILDING STANDARD TINT.
REFER TO PLANS FOR SWING DIRECTION.
REFER TO DOOR SCHEDULE FOR HARDWARE.
ALL DOORS ARE FLUSH UNLESS NOTED OTHERWISE.



OCTAGON - DOOR ELEVATIONS

Scale: 3/8" = 1'-0"

DOOR HARDWARE LEGEND

ABV.	HARDWARE TYPE
ACCESS CONTROL	
BR	BIOMETRIC READER
CR	CARD READER
PR	PROXIMITY READER
SC	SECURITY KEYPAD LOCK
BASIC HARDWARE	
CL	CLOSER
KL	KEYED (ENTRANCE/OFFICE) LOCK
PL	PRIVACY SET
PP	PUSH, PULL
PPL	PUSH/PULL LATCH
PS	PASSAGE SET
DOOR EDGE TREATMENT	
DG	DROP DOWN GASKET
DS	DOOR SWEEP
SG1	DOOR PERIMETER GASKET IN KERFED FRAME
SG2	DOOR PERIMETER GASKET IN KERFED FRAME WITH DOOR SWEEP
SG3	DOOR PERIMETER GASKET IN KERFED FRAME WITH DOWN DOOR SEAL
WS	WEATHER STRIPPING
DOOR PROTECTION	
AP	36" ARMOR PLATE
KP	16" KICK PLATE
MP	6" MOP PLATE
SP	STRETCHER PLATE EACH SIDE OF DOOR (CRASH DOORS)
DOUBLE DOORS	
AS	ASTRAGAL
CO	COORDINATOR
DS	DUST-PROOF STRIKE
FB	FLUSH BOLTS
RM	REMOVEABLE MULLION
ELECTRIFIED HARDWARE	
ED	ELECTRIFIED DOOR LOCKSET
ES	ELECTRIC STRIKE
LG	LOCK GUARDS
MH	MAGNETIC HOLD OPEN
ML1	MAGNETIC LOCK WITH APPROACH SENSOR AND PUSH TO EXIT POWER INTERRUPTION
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FIRE EXIT HARDWARE	
EA	EXIT ALARM
EL	EXIT (ONLY) LOCK
FEH1	FIRE EXIT HARDWARE RIM (SINGLE OR DOUBLE DOOR)
FEH2	FIRE EXIT HARDWARE CONCEALED VERTICAL RODS (FOR DOUBLE DOORS)
FEH3	FIRE EXIT HARDWARE SURFACE MOUNTED (FOR DOUBLE DOORS)
FEH3	FIRE EXIT HARDWARE SURFACE MOUNTED LESS BOTTOM ROD
MISC.	
DB	CYLINDER & DEAD BOLT
KS	KICK STOP
ML	MORTISE LOCK
OV	OVERHEAD STOP
PK	PULL KNOB
SCL	STOP ARM CLOSER
SF	FLOOR STOP
SGTL	STOREFRONT CYLINDER W/ THUMB LATCH
SL	STOREROOM LOCK
SW	WALL STOP
TL	THUMB LATCH
PANIC HARDWARE	
PH1	PANIC HARDWARE RIM DEVICE (SINGLE OR DOUBLE DOOR)
PH2	PANIC HARDWARE CONCEALED VERTICAL RODS (DOUBLE DOORS)
PH3	PANIC HARDWARE SURFACE MOUNTED (FOR DOUBLE DOORS)
PH4	PANIC HARDWARE SURFACE MOUNTED LESS BOTTOM ROD (FOR DOUBLE DOORS)
THRESHOLDS	
T1	ALUMINUM THRESHOLD
T2	MARBLE THRESHOLD

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

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1 REVISIONS

NO.	DATE	DESCRIPTION

PLAN INFORMATION

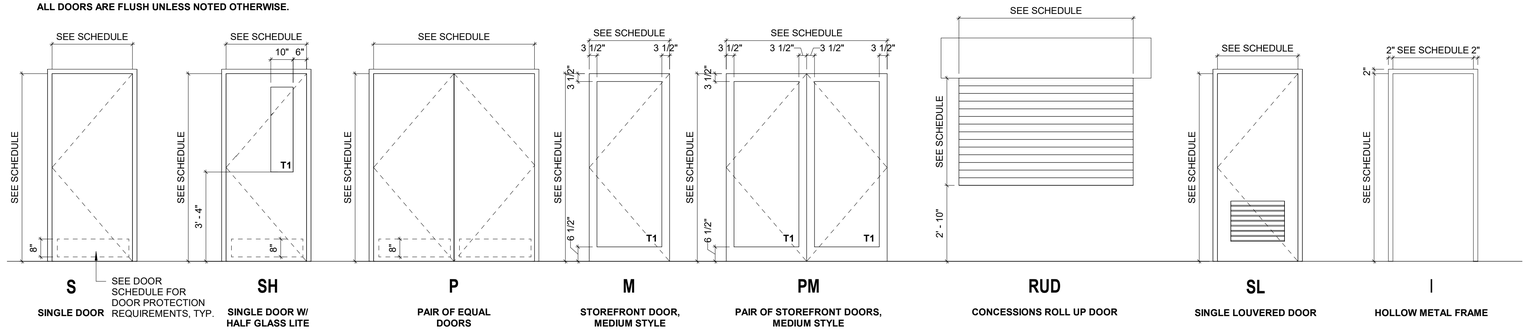
PROJECT NO.	TORLRPMP
FILENAME	TORLRPMP_CENTRAL_2020
CHECKED BY	MDS
DRAWN BY	EEW
SCALE	SEE VIEW
DATE	Issue Date

SHEET

OCTAGON DOOR SCHEDULE AND DETAILS

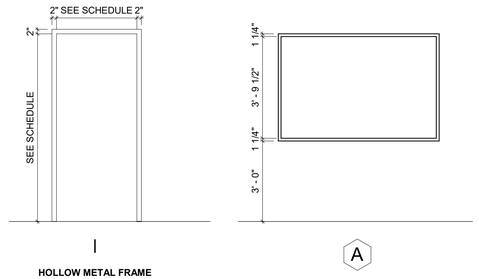
A621

NOTES: 'T1' = 1/4" TEMPERED GLASS TO MATCH BUILDING STANDARD TINT.
REFER TO PLANS FOR SWING DIRECTION.
REFER TO DOOR SCHEDULE FOR HARDWARE.
ALL DOORS ARE FLUSH UNLESS NOTED OTHERWISE.

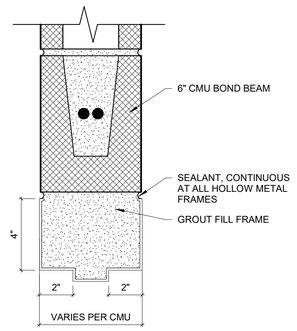


EVENT CENTER - DOOR ELEVATIONS

Scale: 3/8" = 1'-0"

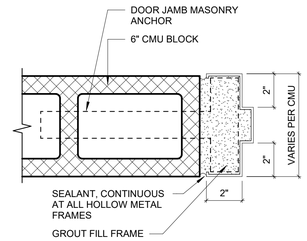


MAINTENANCE WINDOW & FRAME ELEVATIONS



B2 HM DOOR HEAD @ CMU

Scale: 3" = 1'-0"



B3 HM DOOR JAMB @ CMU

Scale: 3" = 1'-0"

DOOR SCHEDULE - MAINTENCE

NO.	DESCRIPTION	TYPE	SIZE	FIRE RATING	FRAME TYPE	FRAME ELEV.	DOOR HARDWARE	COMMENTS
101A	OVERHEAD ROLLING DOOR	W	0"	(none)	(none)		(none) (none) (none) (none) (none) (none) (none) (none)	
101B	OVERHEAD ROLLING DOOR	W	0"	(none)	(none)		(none) (none) (none) (none) (none) (none) (none) (none)	
101C	OVERHEAD ROLLING DOOR	W	0"	(none)	(none)		(none) (none) (none) (none) (none) (none) (none) (none)	
102	SOLID CORE WOOD DOOR	JJ	3' - 0" x 7' - 0" & 3' - 0" x 7' - 0"	(none)	(none)		(none) (none) (none) (none) (none) (none) (none) (none)	
103	SOLID CORE WOOD DOOR	SL	3' - 0" x 7' - 0"	(none)	(none)		(none) (none) (none) (none) (none) (none) (none) (none)	
104	SOLID CORE WOOD DOOR	SF	3' - 0" x 7' - 0"	(none)	(none)		(none) (none) (none) (none) (none) (none) (none) (none)	
105	SOLID CORE WOOD DOOR	SF	3' - 0" x 7' - 0"	(none)	(none)		(none) (none) (none) (none) (none) (none) (none) (none)	
117	OVERHEAD ROLLING DOOR	W	0"	(none)	(none)		(none) (none) (none) (none) (none) (none) (none) (none)	
119	OVERHEAD ROLLING DOOR	3	0"	(none)	(none)		(none) (none) (none) (none) (none) (none) (none) (none)	
120	OVERHEAD ROLLING DOOR	W	0"	(none)	(none)		(none) (none) (none) (none) (none) (none) (none) (none)	
123	OVERHEAD ROLLING DOOR	3	0"	(none)	(none)		(none) (none) (none) (none) (none) (none) (none) (none)	
129	OVERHEAD ROLLING DOOR	W	0"	(none)	(none)		(none) (none) (none) (none) (none) (none) (none) (none)	
130	OVERHEAD ROLLING DOOR	3	0"	(none)	(none)		(none) (none) (none) (none) (none) (none) (none) (none)	
131	OVERHEAD ROLLING DOOR	3	0"	(none)	(none)		(none) (none) (none) (none) (none) (none) (none) (none)	
132	OVERHEAD ROLLING DOOR	3	0"	(none)	(none)		(none) (none) (none) (none) (none) (none) (none) (none)	
133	OVERHEAD ROLLING DOOR	3	0"	(none)	(none)		(none) (none) (none) (none) (none) (none) (none) (none)	
134	SOLID CORE WOOD DOOR	SF	3' - 0" x 7' - 0"	(none)	(none)		(none) (none) (none) (none) (none) (none) (none) (none)	
135	HOLLOW METAL DOOR	S	3' - 0" x 7' - 0"	(none)	(none)		(none) (none) (none) (none) (none) (none) (none) (none)	

DOOR HARDWARE LEGEND

ABV.	HARDWARE TYPE
ACCESS CONTROL	
BR	BIOMETRIC READER
CR	CARD READER
PR	PROXIMITY READER
SC	SECURITY KEYPAD LOCK
BASIC HARDWARE	
CL	CLOSER
KL	KEYED (ENTRANCE/OFFICE) LOCK
PL	PRIVACY SET
PP	PUSH, PULL
PPL	PUSH/PULL LATCH
PS	PASSAGE SET
DOOR EDGE TREATMENT	
DG	DROP DOWN GASKET
DS	DOOR SWEEP
SG1	DOOR PERIMETER GASKET IN KERFED FRAME
SG2	DOOR PERIMETER GASKET IN KERFED FRAME WITH DOOR SWEEP
SG3	DOOR PERIMETER GASKET IN KERFED FRAME WITH DOWN DOOR SEAL
WS	WEATHER STRIPPING
DOOR PROTECTION	
AP	36" ARMOR PLATE
KP	16" KICK PLATE
MP	6" MOP PLATE
SP	STRETCHER PLATE EACH SIDE OF DOOR (CRASH DOORS)
DOUBLE DOORS	
AS	ASTRAGAL
CO	COORDINATOR
DS	DUST-PROOF STRIKE
FB	FLUSH BOLTS
RM	REMOVEABLE MULLION
ELECTRIFIED HARDWARE	
ED	ELECTRIFIED DOOR LOCKSET
ES	ELECTRIC STRIKE
LG	LOCK GUARDS
MH	MAGNETIC HOLD OPEN
ML1	MAGNETIC LOCK WITH APPROACH SENSOR AND PUSH TO EXIT POWER INTERRUPTION
ML2	MAGNETIC LOCK WITH LISTED ELECTROMAGNETIC RELEASE
ML3	MAGNETIC LOCK WITH INTERLOCK AND LISTED ELECTROMAGNETIC RELEASE
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EA	EXIT ALARM
EL	EXIT (ONLY) LOCK
FEH1	FIRE EXIT HARDWARE RIM (SINGLE OR DOUBLE DOOR)
FEH2	FIRE EXIT HARDWARE CONCEALED VERTICAL RODS (FOR DOUBLE DOORS)
FEH3	FIRE EXIT HARDWARE SURFACE MOUNTED (FOR DOUBLE DOORS)
FEH3	FIRE EXIT HARDWARE SURFACE MOUNTED LESS BOTTOM ROD
MISC.	
DB	CYLINDER & DEAD BOLT
KS	KICK STOP
ML	MORTISE LOCK
OV	OVERHEAD STOP
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SCL	STOP ARM CLOSER
SF	FLOOR STOP
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THRESHOLDS	
T1	ALUMINUM THRESHOLD
T2	MARBLE THRESHOLD

DOOR ACCESSIBILITY NOTES

1. THRESHOLDS MUST MEET NCSBC AND ADA REQUIREMENTS.
2. DOOR CLOSERS SHALL BE CERTIFIED BY THE MANUFACTURER TO MEET THE REQUIREMENTS OF THE ADA AND NCSBC. INSTALLATION AND ADJUSTMENTS MUST ALSO COMPLY FOR OPERATIONAL CRITERIA. FOR EXAMPLE, THE FORCE TO OPEN INTERIOR DOORS MUST NOT EXCEED 5 POUNDS AND EXTERIOR DOORS MUST NOT EXCEED 8-1/2 POUNDS.
3. DOOR CLOSERS SHALL MEET THE NCSBC REQUIREMENTS FOR SWEEP PERIOD.
4. ALL CONTROLS, DEVICES, HANDLES, LATCHES, THRESHOLDS, TRANSITIONS, AND RAMPS SHALL COMPLY WITH THE NCSBC & THE AMERICANS W/ DISABILITIES ACT. COORDINATE ANY DISCREPANCIES WITH TENANT, BUILDING OWNER, AND ARCHITECT.

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WAKE FOREST, NC 27587

MICHAEL D. SUTTON REGISTERED ARCHITECT 9953 NORTH CAROLINA RALEIGH, N.C.

REVISIONS

NO.	DATE	DESCRIPTION

PLAN INFORMATION

PROJECT NO.	TORLRPMP
FILENAME	TORLRPMP_CENTRAL_2020
CHECKED BY	MDS
DRAWN BY	EEW
SCALE	SEE VIEW
DATE	Issue Date

SHEET

MAINTENANCE DOOR SCHEDULE AND DETAILS

A631

FINISH SCHEDULE_EVENT CENTER

NO.	ROOM NAME	FLOOR MAT.	FLOOR FIN.	BASE FIN.	WALL MAT.	WALL FIN.	CEILING MAT.	REMARKS
101	EVENT SPACE	CONC.	STC-1	WD	GWB	P-1	STAINED WOOD	
102	STORAGE	CONC.	QT-1	QTB-1	GWB	P-1	EXPOSED ROOF DECK	
103	CONCESSIONS	CONC.	QT-1	QTB-1	GWB	P-1	ACT-2	
104	FOOD PREP	CONC.	QT-1	QTB-1	GWB	P-1	ACT-2	
105	WOMEN	CONC.	T-2	TB-1	GWB	P-1	GYP-1	
106	MEN	CONC.	T-2	TB-1	GWB	P-1	GYP-1	
107	FAMILY	CONC.	T-2	TB-1	GWB	P-1	GYP-1	
108	SPRINKLER RM	CONC.	SC-1	WD	GWB	P-1	OPEN	

FINISH SPECIFICATIONS

WALLS

PAINT

P-1 (PRIMARY)
MFGR: SHERWIN WILLIAMS
COLOR NAME: EIDER WHITE
COLOR NUMBER:7014
FINISH: EGGSHELL

P-2 (ACCENT)
MFGR: SHERWIN WILLIAMS
COLOR NAME: TBD
COLOR NUMBER: TBD
FINISH: EGGSHELL

FRP

EP-1 (PRIMARY) EPOXY PAINT
MFGR: SHERWIN WILLIAMS
COLOR NAME: EIDER WHITE
COLOR NUMBER: 7014
FINISH: GLOSSY

PAINT NOTES:

P-1, P-2, P-3 DESIGNATION PAINT
1. PRIMER: B28W02600 PROMAR 200 ZERO VOC INTERIOR LATEX PRIMER WHITE
2. PAINT: TWO (2) COATS B09W0151 HARMONY IAQ INTERIOR ACRYLIC LATEX PAINT PER SHEEN ABOVE.

EP-1, EP-2, EP-3 DESIGNATION PAINT
1. PRIMER: B28W02600 PROMAR 200 ZERO VOC INTERIOR LATEX PRIMER WHITE
2. PAINT: TWO (2) COATS K45W00151 PRO INDUSTRIAL PRECATALYZED WATRBASED EPOXY PER SHEEN ABOVE

BATHROOM WALL TILE

T-1 CERAMIC TILE
MFGR:
COLOR/STYLE NAME:
SIZE:
PRODUCT NUMBER:
PATTERN:

FLOORS

WALL BASE

RB-1 RUBBER BASE
MFGR: ROPPE
STYLE NAME: 4" RUBBER (1/8" THICK)
SIZE:
COLOR NUMBER:
COLOR NAME:
PATTERN:

VINYL COMPOSITION TILE

VCT-1
MFGR:
STYLE NAME:
SIZE:
COLOR NUMBER:
COLOR NAME:
PATTERN:

BATHROOM FLOOR TILE

T-2 CERAMIC TILE
MFGR:
COLOR/STYLE NAME:
SIZE:
PRODUCT NUMBER:
PATTERN:

EPOXY FLOORING

EPF-1
MFGR: STONHARD TRF
COLOR NAME:
FINISH: PROVIDE WHITE AI OXIDE
TEXTURE ADDITIVE

SEALED CONCRETE

SC-1
MFGR: V-SEAL
PRODUCT: 101 MULTI-SURFACE

STAINED CONCRETE

STC-1
MFGR: TBD
PRODUCT: TBD

CEILINGS

ACOUSTICAL TILE & GRID

ACT-1 (OFFICE)
MFGR: ARMSTRONG
STYLE: ULTIMA SQUARE
SIZE: 2X2
RATING: NRC 0.70

GYPSUM BOARD CEILING

GYP-1
PAINT COLOR: PAINT P-1

MILLWORK

CABINETS

PLAM-1 PLASTIC LAMINATE
MFGR:
COLOR/STYLE NAME:
PRODUCT NUMBER:

COUNTERTOPS

SSURF-1
MFGR:
COLOR/STYLE NAME:
PRODUCT NUMBER:

BACKSPLASH

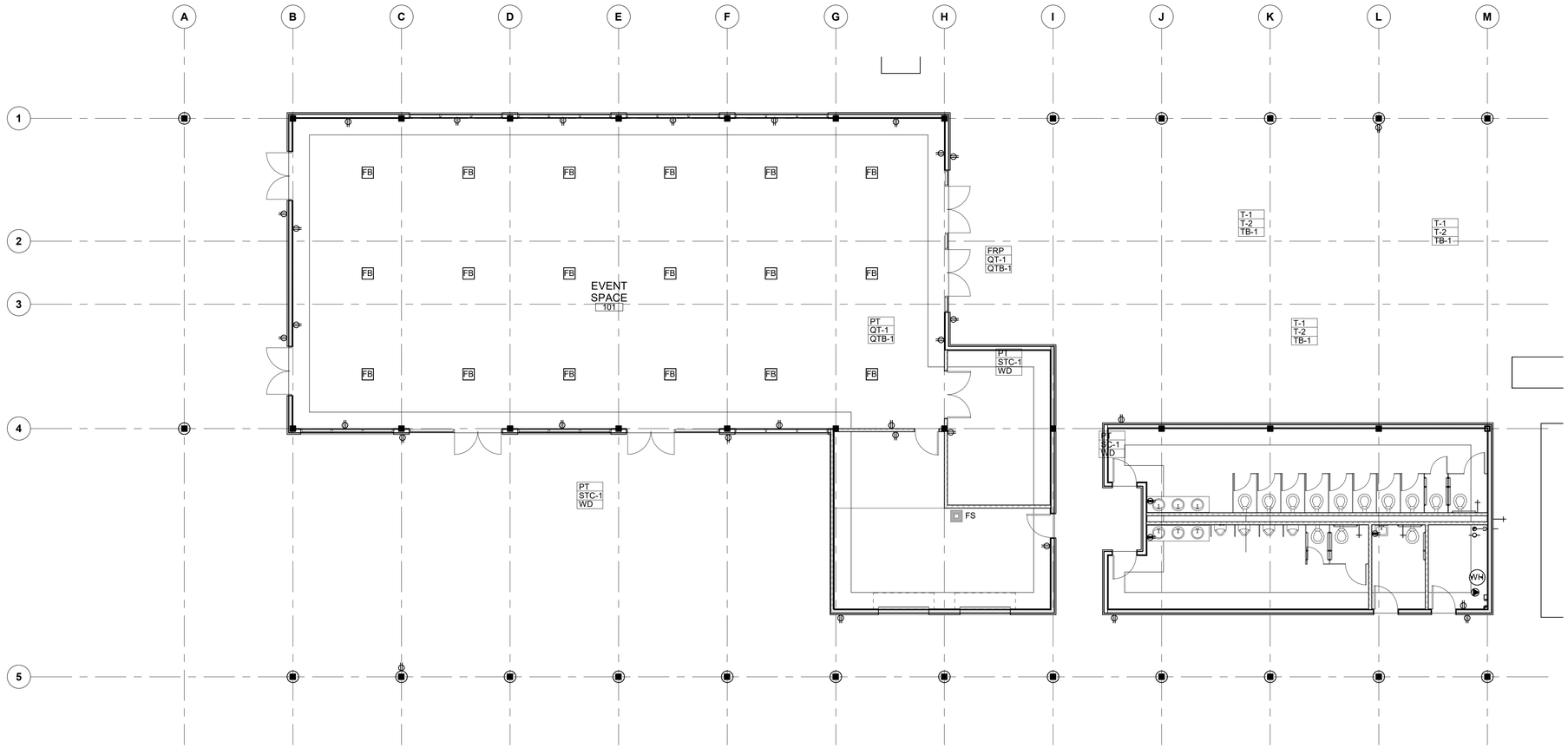
T-3
MFGR:
COLOR:
PRODUCT NUMBER:
PATTERN:
SIZE:

CABINET DOOR PULLS

MFGR: HAFELE STYLE
DESCRIPTION: STAINLESS STEEL
HANDLES PRODUCT SERIES: 117.05

BATHROOM PARTITION

PLAM-2
MFGR: NEVAMAR
COLOR/STYLE NAME:
PRODUCT NUMBER:



A1 EVENT CENTER - FINISH PLAN
Scale: 1/8" = 1'-0"

0 4 8 16 24 FEET

PLAN NORTH TRUE NORTH

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

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SHEET

EVENT CENTER FINISH PLAN AND SCHEDULE

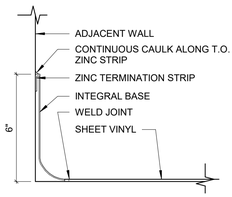
A711

FINISH SPECIFICATIONS

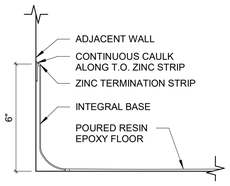
WALLS	FLOORS	CEILINGS
PAINT	VINYL COMPOSITION TILE	GYPSUM BOARD CEILING
P-1 (PRIMARY) MFGR: SHERWIN WILLIAMS COLOR NAME: EIDER WHITE COLOR NUMBER:7014 FINISH: EGGSHELL P-2 (ACCENT) MFGR: SHERWIN WILLIAMS COLOR NAME: TBD COLOR NUMBER: TBD FINISH: EGGSHELL PAINT NOTES: P-1, P-2, P-3 DESIGNATION PAINT 1. PRIMER: B28W02600 PROMAR 200 ZERO VOC INTERIOR LATEX PRIMER WHITE 2. PAINT: TWO (2) COATS B09W0151 HARMONY IAQ INTERIOR ACRYLIC LATEX PAINT PER SHEEN ABOVE. EP-1, EP-2, EP-3 DESIGNATION PAINT 1. PRIMER: B28W02600 PROMAR 200 ZERO VOC INTERIOR LATEX PRIMER WHITE 2. PAINT: TWO (2) COATS K45W00151 PRO INDUSTRIAL PRECATALYZED WATRBASED EPOXY PER SHEEN ABOVE	VCT-1 MFGR: STYLE NAME: SIZE: COLOR NUMBER: COLOR NAME: PATTERN: SEALED CONCRETE SC-1 MFGR: V-SEAL PRODUCT: 101 MULTI-SURFACE EPOXY FLOORING W/ INTEGRAL COVE BASE EPX-1 MFGR: PRODUCT: COLOR:	GYP-1 PAINT COLOR: PAINT P-1 MILLWORK CABINETS PLAM-1 PLASTIC LAMINATE MFGR: COLOR/STYLE NAME: PRODUCT NUMBER: COUNTERTOPS PLAM-1 MFGR: COLOR/STYLE NAME: PRODUCT NUMBER:
WALL BASE	BATHROOM PARTITION	CABINET DOOR PULLS
RB-1 RUBBER BASE MFGR: ROPPE STYLE NAME: 4" RUBBER (1/8" THICK) SIZE: COLOR NUMBER: COLOR NAME: PATTERN:	SOLID PLASTIC MFGR: COLOR/STYLE NAME: PRODUCT NUMBER:	MFGR: HAFELE STYLE DESCRIPTION: STAINLESS STEEL HANDLES PRODUCT SERIES: 117.05

FINISH SCHEDULE_OCTAGON

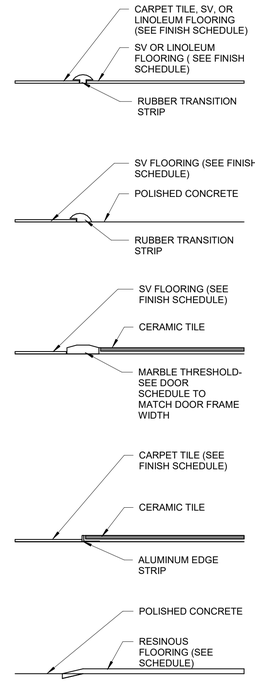
NO.	ROOM NAME	FLOOR MAT.	FLOOR FIN.	BASE FIN.	WALL MAT.	WALL FIN.	CEILING MAT.	REMARKS
109	ELECTRICAL	CONC.	EPX-1	EB-1	CMU	EP-1	GWB	
110	WOMEN'S TOILET 01	CONC.	EPX-1	EB-1	CMU	EP-1	GWB	
111	MAIN CONCESSION	CONC.	EPX-1	EB-1	CMU	EP-1	GWB	
112	MEN'S TOILET	CONC.	EPX-1	EB-1	CMU	EP-1	GWB	
113	ENTRY	CONC.	SC-1	EB-1	CMU	EP-1	GWB	
114	WOMEN'S TOILET 02	CONC.	EPX-1	EB-1	CMU	EP-1	GWB	
115	FAMILY RESTROOM	CONC.	EPX-1	EB-1	CMU	EP-1	GWB	
116	ENTRY	CONC.	SC-1	EB-1	CMU	EP-1	GWB	
117	CIRCULATION	CONC.	SC-1	EB-1	CMU	EP-1	GWB	
118	CONCESSION	CONC.	EPX-1	EB-1	CMU	EP-1	GWB	
119	CONCESSION	CONC.	EPX-1	EB-1	CMU	EP-1	GWB	
120	JANITOR'S CLOSET	CONC.	EPX-1	EB-1	CMU	EP-1	GWB	
121	STAIRCASE ENTRY/EXIT	CONC.	EPX-1	EB-1	CMU	EP-1	GWB	
122	STAIRCASE	CONC.	VCT-1	RB-1	CMU	P-1	GWB	
123	PRESS BOX	WD	VCT-1	RB-1	GWB	P-2	GWB	
124	OFFICE 01	WD	VCT-1	RB-1	GWB	P-2	GWB	
125	OFFICE 02	WD	VCT-1	RB-1	GWB	P-2	GWB	
126	OFFICE 03	WD	VCT-1	RB-1	GWB	P-2	GWB	



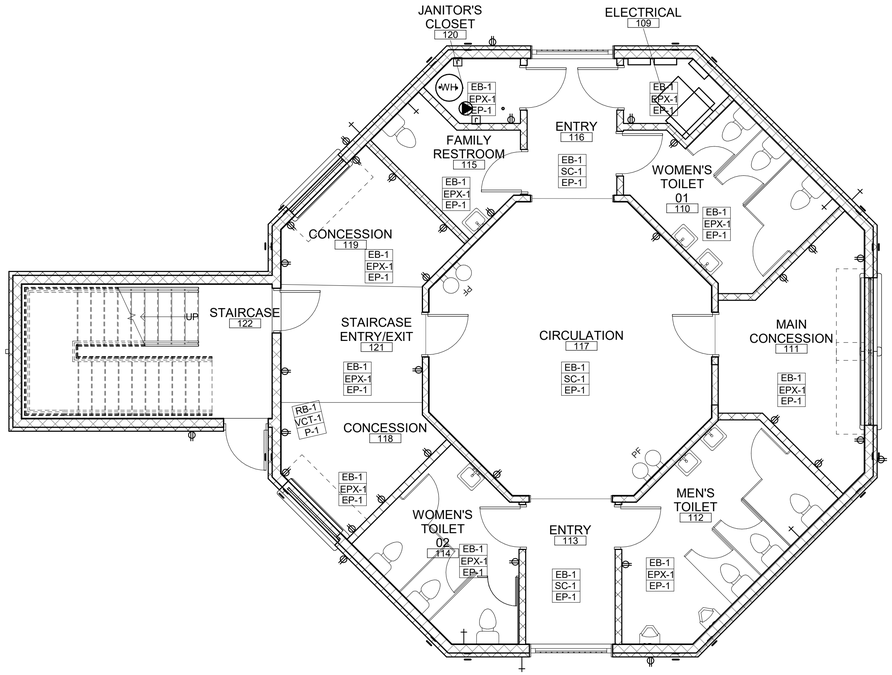
B5 VINYL WALL BASE DETAIL
Scale: 3" = 1'-0"



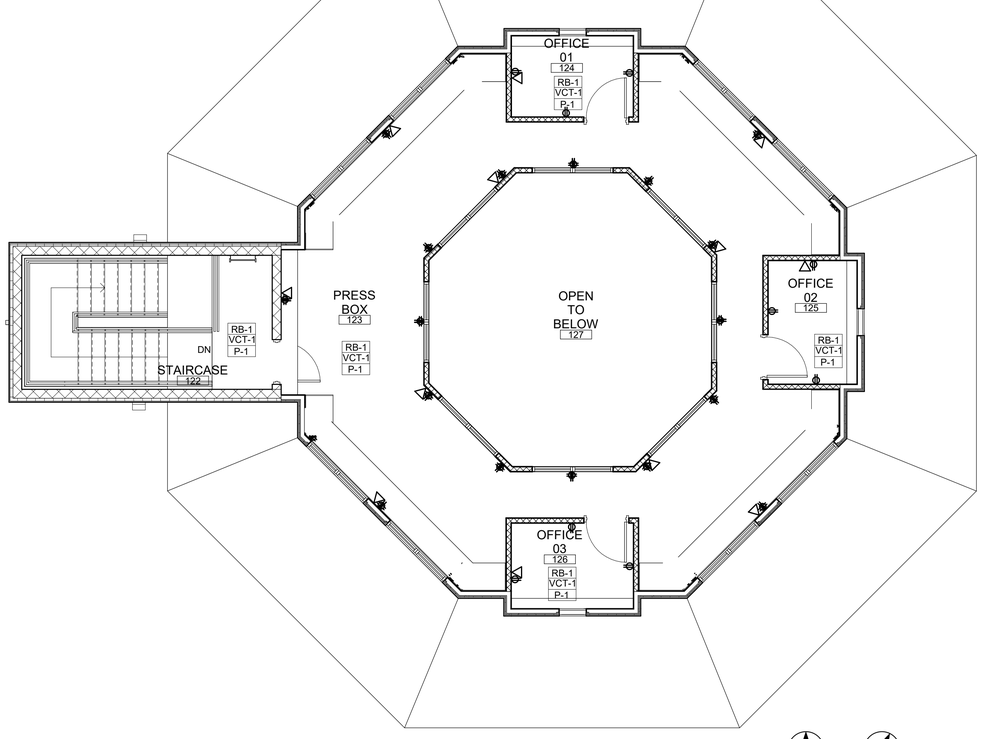
A5 EPOXY WALL BASE DETAIL
Scale: 3" = 1'-0"



C5 TRANSITION STRIP DETAILS
Scale: 3" = 1'-0"



A1 OCTAGON - FIRST FLOOR FINISH PLAN
Scale: 3/16" = 1'-0"



A3 OCTAGON - SECOND FLOOR FINISH PLAN
Scale: 3/16" = 1'-0"

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OCTAGON FINISH PLAN, SCHEDULES, AND DETAILS

A721

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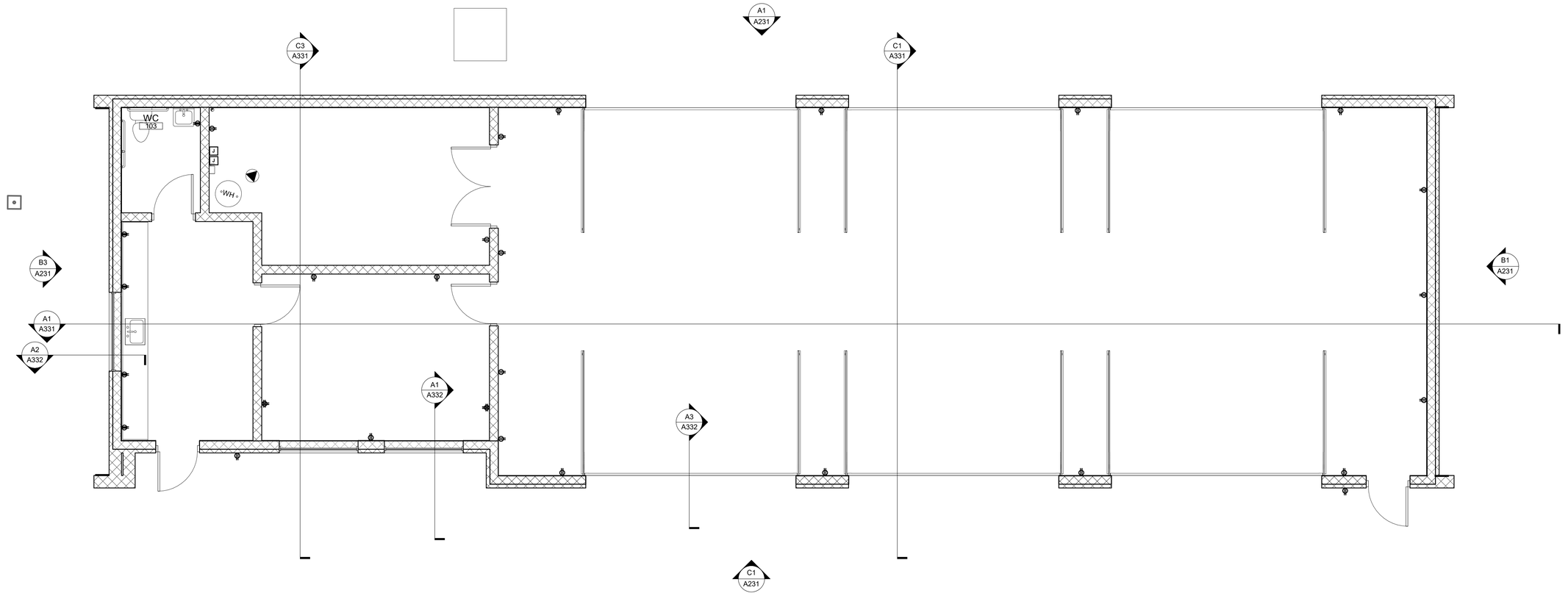
FINISH SPECIFICATIONS

WALLS	FLOORS	CEILINGS
PAINT	VINYL COMPOSITION TILE	GYPSUM BOARD CEILING
P-1 (PRIMARY) MFGR: SHERWIN WILLIAMS COLOR NAME: EIDER WHITE COLOR NUMBER:7014 FINISH: EGGSHELL P-2 (ACCENT) MFGR: SHERWIN WILLIAMS COLOR NAME: TBD COLOR NUMBER: TBD FINISH: EGGSHELL EP-1 (PRIMARY) EPOXY PAINT MFGR: SHERWIN WILLIAMS COLOR NAME: EIDER WHITE COLOR NUMBER: 7014 FINISH: GLOSSY PAINT NOTES: P-1, P-2, P-3 DESIGNATION PAINT 1. PRIMER: B28W02600 PROMAR 200 ZERO VOC INTERIOR LATEX PRIMER WHITE 2. PAINT: TWO (2) COATS B09W0151 HARMONY IAQ INTERIOR ACRYLIC LATEX PAINT PER SHEEN ABOVE. EP-1, EP-2, EP-3 DESIGNATION PAINT 1. PRIMER: B28W02600 PROMAR 200 ZERO VOC INTERIOR LATEX PRIMER WHITE 2. PAINT: TWO (2) COATS K45W00151 PRO INDUSTRIAL PRECATALYZED WATRBASED EPOXY PER SHEEN ABOVE	VCT-1 MFGR: STYLE NAME: SIZE: COLOR NUMBER: COLOR NAME: PATTERN:	GYP-1 PAINT COLOR: PAINT P-1
		MILLWORK
		CABINETS
		PLAM-1 PLASTIC LAMINATE MFGR: COLOR/STYLE NAME: PRODUCT NUMBER:
		COUNTERTOPS
		SSURF-1 MFGR: COLOR/STYLE NAME: PRODUCT NUMBER:
		BACKSPLASH
		T-3 MFGR: COLOR: PRODUCT NUMBER: PATTERN: SIZE:
		CABINET DOOR PULLS
		MFGR: HAFELE STYLE DESCRIPTION: STAINLESS STEEL HANDLES PRODUCT SERIES: 117.05
WALL BASE	SEALED CONCRETE	
RB-1 RUBBER BASE MFGR: ROPPE STYLE NAME: 4" RUBBER (1/8" THICK) SIZE: COLOR NUMBER: COLOR NAME: PATTERN:	SC-1 MFGR: V-SEAL PRODUCT: 101 MULTI-SURFACE	

FINISH SCHEDULE_MAINTENANCE

NO.	ROOM NAME	FLOOR MAT.	FLOOR FIN.	BASE FIN.	WALL MAT.	WALL FIN.	CEILING MAT.	REMARKS
101	EQUIPMENT	CONC.	SEAL	NONE	CMU	P-1	EXPOSED ROOF DECK	
102	STORAGE	CONC.	VCT-1	NONE	CMU	P-1	GYP-1	
103	WC	CONC.	VCT-1	RB-1	CMU	P-1	GYP-1	
104	BREAK	CONC.	VCT-1	RB-1	CMU	P-1	GYP-1	
105	OFFICE	CONC.	VCT-1	RB-1	CMU	P-1	GYP-1	



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PLAN NORTH TRUE NORTH

A1 MAINTENANCE - FINISH PLAN

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

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MAINTENANCE FINISH PLAN AND SCHEDULE

A731

FRAZIER FARM PARK

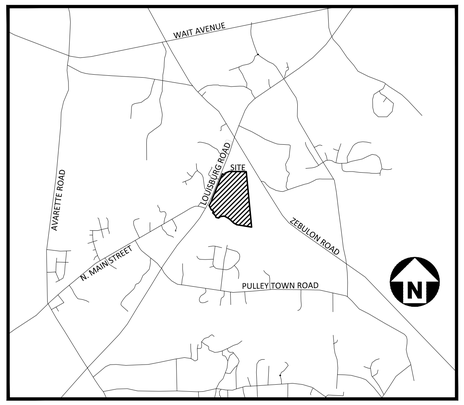
11624 LOUISBURG ROAD
ROLESVILLE, NORTH CAROLINA, 27282

30% CONSTRUCTION DRAWINGS

PROJECT NUMBER: 2020110039
DATE: MAY 28, 2021

SITE DATA

OWNER:	TOWN OF ROLESVILLE 502 SOUTHTOWN CIRCLE ROLESVILLE, NORTH CAROLINA 27571
PREPARED BY:	MCADAMS COMPANY 2905 MERIDIAN PARKWAY DURHAM, NORTH CAROLINA 27713 919. 361. 5000 COTTER@MCADAMSCO.COM
PARCEL ID NUMBER:	1779076610
TOTAL SITE ACREAGE:	±116.56 AC
LAND AREA OF PARCEL	±XX AC
SITE ACREAGE AS PART OF THIS DEVELOPMENT:	±XX AC
CURRENT ZONING:	PARKS AND NATURAL RESOURCES (PNR)
PROPOSED ZONING:	PARKS AND NATURAL RESOURCES (PNR)
CURRENT LAND USE:	PUBLIC RECREATION FACILITY
PROPOSED LAND USE:	PUBLIC RECREATION FACILITY
ADJOINING PROPERTY OWNERS:	PIN: 1779083669, 1779263965, 1779190357
DISTURBED AREA:	±37.50 AC
FEMA REGULATIONS:	
WATERSHED(S):	NEUSE



VICINITY MAP
N.T.S.

SHEET INDEX

C1.00	EXISTING CONDITIONS	C8.00	SITE DETAILS	L5.00	OVERALL LANDSCAPE PLAN
C1.10	DEMOLITION PLAN	C8.01	SITE DETAILS	L5.01	LANDSCAPE PLAN 'AREA A'
		C8.02	STORM DRAINAGE & UTILITY DETAILS	L5.02	LANDSCAPE PLAN 'AREA B'
C2.00	OVERALL SITE PLAN	C8.03	STORM DRAINAGE & UTILITY DETAILS	L5.03	LANDSCAPE PLAN 'AREA C'
C2.01	SITE PLAN 'AREA A'	C8.10	HARDSCAPE DETAILS	L5.04	LANDSCAPE PLAN 'AREA D'
C2.02	SITE PLAN 'AREA B'	C8.11	HARDSCAPE DETAILS	L5.05	LANDSCAPE PLAN 'AREA E'
C2.03	SITE PLAN 'AREA C'	C8.12	HARDSCAPE DETAILS	L5.06	LANDSCAPE PLAN 'AREA F'
C2.04	SITE PLAN 'AREA D'	C9.00	STORMWATER CONTROL MEASURE 'A' PLAN VIEW	L5.07	LANDSCAPE PLAN 'AREA G'
C2.05	SITE PLAN 'AREA E'	C9.01	STORMWATER CONTROL MEASURE 'A' DETAILS	L5.08	OVERALL SITE ZONING DIAGRAM
C2.06	SITE PLAN 'AREA F'	C9.02	STORMWATER CONTROL MEASURE 'A' DETAILS	LD1.00	PLANTING DETAILS
C2.07	SITE PLAN 'AREA G'	C9.03	STORMWATER CONTROL MEASURE 'A' LANDSCAPE PLAN	LD1.01	PLANTING DETAILS
		C9.04	STORMWATER CONTROL MEASURE 'B' PLAN VIEW	LD1.02	PLANTING DETAILS
C3.00	OVERALL GRADING PLAN	C9.05	STORMWATER CONTROL MEASURE 'B' DETAILS		
C3.01	GRADING PLAN 'AREA A'	C9.06	STORMWATER CONTROL MEASURE 'B' DETAILS	SFD100 - 108	SPORTS FIELDS DETAILS
C3.02	GRADING PLAN 'AREA B'	C9.07	STORMWATER CONTROL MEASURE 'B' LANDSCAPE PLAN	SFG100 - 105	SPORTS FIELDS GRADING
C3.03	GRADING PLAN 'AREA C'	C9.08	STORMWATER CONTROL MEASURE 'C' PLAN VIEW	SFI100 - 103	SPORTS FIELDS IRRIGATION PLANS
C3.04	GRADING PLAN 'AREA D'	C9.09	STORMWATER CONTROL MEASURE 'C' DETAILS	SFL100 - 103	SPORTS FIELDS LAYOUT PLANS
C3.05	GRADING PLAN 'AREA E'	C9.10	STORMWATER CONTROL MEASURE 'D' PLAN VIEW		
C3.06	GRADING PLAN 'AREA F'	C9.11	STORMWATER CONTROL MEASURE 'D' DETAILS		
C3.07	GRADING PLAN 'AREA G'				
		L2.00	OVERALL HARDSCAPE PLAN		
C4.00	OVERALL UTILITY PLAN	L2.01	HARDSCAPE PLAN 'AREA A'		
C4.01	UTILITY PLAN 'AREA A'	L2.02	HARDSCAPE PLAN 'AREA B'		
C4.02	UTILITY PLAN 'AREA B'	L2.03	HARDSCAPE PLAN 'AREA C'		
C4.03	UTILITY PLAN 'AREA C'	L2.04	HARDSCAPE PLAN 'AREA D'		
C4.04	UTILITY PLAN 'AREA D'	L2.05	HARDSCAPE PLAN 'AREA E'		
C4.05	UTILITY PLAN 'AREA E'	L2.06	HARDSCAPE PLAN 'AREA F'		
C4.06	UTILITY PLAN 'AREA F'	L2.07	HARDSCAPE PLAN 'AREA G'		
C4.07	UTILITY PLAN 'AREA G'				

INTEGRATED DESIGN - ARCHITECTURAL DRAWINGS

SCALENE DESIGN - STRUCTURAL DRAWINGS

STANFORD WHITE - MEP DRAWINGS

GENERAL NOTES:

1. ANY STRUCTURE TO BE REMOVED SHALL REQUIRE A DEMOLITION PERMIT FROM BUILDING INSPECTIONS.

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

CONTRACTOR SHALL NOTIFY "NC811" (811) OR (1-800-632-4949) AT LEAST 3 FULL BUSINESS DAYS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED.
CONTRACTOR SHALL CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NC811".
REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.

McADAMS
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Durham, NC 27713

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fax 919. 361. 2269
license number: C-0293, C-187

www.mcadamsco.com

CONTACT

RACHEL COTTER
cotter@mcadamsco.com
PHONE: 919. 361. 5000 x 132

OWNER

TOWN OF ROLESVILLE
502 SOUTHTOWN CIRCLE
ROLESVILLE, NORTH CAROLINA 27571
PHONE: 919. 554. 6582

PROJECT DIRECTORY

NORTH CAROLINA LANDSCAPE ARCHITECT 1960 SHWETA NAMEKAR
FRAZIER FARM PARK NOT FOR CONSTRUCTION

REVISIONS

NO. DATE

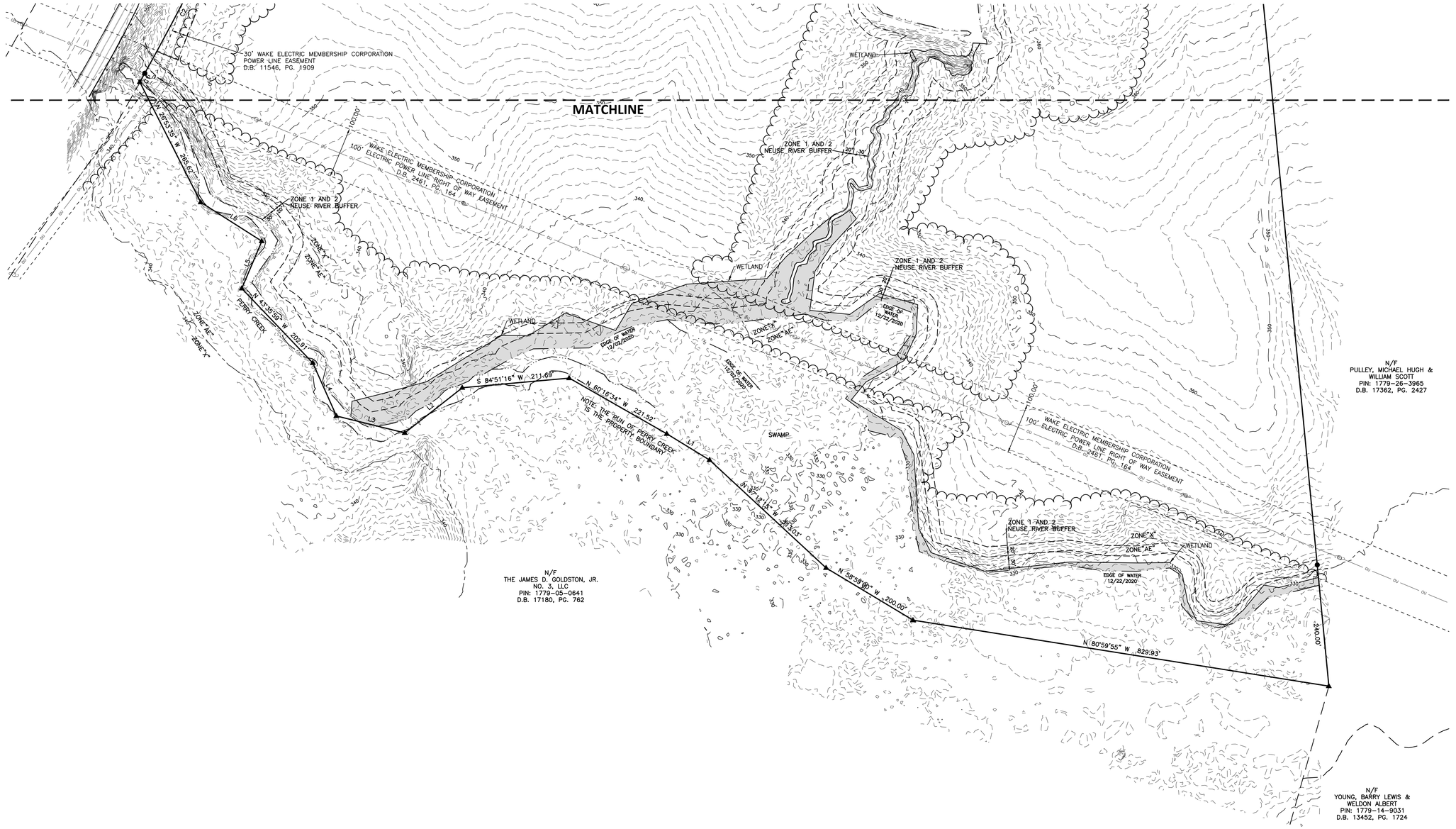
CONSTRUCTION DRAWINGS FOR

FRAZIER FARM PARK
ROLESVILLE, NC, 27571
PROJECT NUMBER: 2020110039

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

M:\Projects\Town\Rolesville\2020110039 Frazier Farm Park\04 Production\Engineering\Construction Drawings\2020110039-CS1.dwg, 5/28/2021 2:38:25 PM, Jenkins, Garrett

NC GRID NAD 83 (2011)



LEGEND

- PROPERTY BOUNDARY
- ADJOINING PARCEL GIS SHAPEFILE
- OVERHEAD UTILITY
- UNDERGROUND TELEPHONE
- STORM SEWER
- WOODLINE
- NEUSE RIVER BUFFER
- FLOODPLAIN
- CREEK BANK
- TIE LINE
- WETLAND
- POWER EASEMENT
- PERMANENT UTILITY EASEMENT
- IRON PIPE/REBAR FOUND
- IRON PIPE/REBAR SET
- CONCRETE MONUMENT
- CALCULATED POINT NOT FOUND OR SET
- GEODETIC MONUMENT
- TEMPORARY BENCHMARK
- LIGHT POLE
- UTILITY POLE
- TELEPHONE PEDESTAL
- OAK
- DOGWOOD
- PECAN

GRAPHIC SCALE
0 50 100 200
1 inch = 100 ft.

CURVE TABLE				
CURVE	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH
C1	405.81'	20.00'	N 29°03'28" E	20.00'
C2	5724.30'	282.14'	N 27°38'45" E	282.12'
C3	1907.59'	320.51'	N 45°25'21" E	320.13'
C4	5900.00'	175.71'	S 26°19'02" W	175.70'
C5	6306.80'	39.71'	S 28°12'58" W	39.71'

LINE TABLE		
LINE	BEARING	DISTANCE
L1	N 58°32'29" W	98.85'
L2	S 51°53'26" W	144.12'
L3	N 76°07'14" W	138.75'
L4	N 24°04'09" W	114.42'
L5	N 22°55'41" E	101.10'
L6	N 57°26'24" W	142.63'
L7	N 15°00'06" E	104.53'
L8	S 67°19'35" E	132.44'
L9	N 19°08'18" E	95.82'
L10	S 25°00'42" W	18.54'
L11	S 45°13'02" W	82.40'
L12	N 50°24'20" W	34.98'
L13	N 66°46'16" W	23.34'
L14	N 56°12'03" W	20.02'

SURVEY NOTES

1. THIS EXISTING CONDITIONS SURVEY WAS COMPLETED ON APRIL 22, 2021.
2. BEARINGS FOR THIS SURVEY ARE BASED ON NC STATE PLANE GRID NAD 83 (2011).
3. ALL DISTANCES ARE HORIZONTAL GROUND DISTANCES UNLESS NOTED OTHERWISE.
4. AREA BY COORDINATE GEOMETRY.
5. THIS PROPERTY IS LOCATED IN A SPECIAL FLOOD HAZARD ZONE, PORTIONS OF THE SOUTHERN PROPERTY BOUNDARY ALONG PERRY CREEK ARE IN ZONE AE (1% ANNUAL CHANCE FLOOD) PER FEMA FIRM MAP 3720177900K, MAP DATE MAY 2, 2006.
6. ELEVATIONS FOR THIS SURVEY ARE BASED ON NAVD 88 DERIVED FROM NGS "PERRY CREEK". THE CONTOUR INTERVAL IS 1-FOOT.

UTILITY STATEMENT

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

GPS METADATA

(1) CLASS OF SURVEY: A
(2) POSITIONAL ACCURACY: 0.06'
(3) TYPE OF GPS FIELD PROCEDURE: VRS
(4) DATES OF SURVEY: DECEMBER 10, 2020
(5) DATUM/EPOCH: NAD 83 (2011)
(6) PUBLISHED/FIXED-CONTROL USE: NCGS "GARY"
(7) GEOID MODEL: 12B
(8) COMBINED GRID FACTOR(S): 0.99993507
(9) UNITS: U.S. SURVEY FEET

NORTH CAROLINA PROFESSIONAL SEAL L-5045 LAND SURVEYOR E. MATTHEW CASH

I, E. MATTHEW CASH, CERTIFY THAT THIS PROJECT WAS COMPLETED UNDER MY DIRECT AND RESPONSIBLE CHARGE FROM AN ACTUAL SURVEY PERFORMED UNDER MY SUPERVISION; THAT THIS GROUND/AERIAL SURVEY WAS PERFORMED AT THE 95 PERCENT CONFIDENCE LEVEL TO MEET FEDERAL GEOGRAPHIC DATA COMMITTEE STANDARDS; THAT THIS SURVEY WAS PERFORMED TO MEET THE REQUIREMENTS FOR A TOPOGRAPHIC/PLANIMETRIC SURVEY TO THE ACCURACY OF CLASS A AND VERTICAL ACCURACY WHEN APPLICABLE TO THE CLASS A STANDARD, AND THAT THE SURVEY WAS COMPLETED ON APRIL 22, 2021; AND ALL COORDINATES ARE BASED ON NAD 83 (2011) AND ALL ELEVATIONS ARE BASED ON NAVD 88.

E. MATTHEW CASH, PROFESSIONAL LAND SURVEYOR L-5045 MAY 12, 2021

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

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CLIENT

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ADDRESS	ROLESVILLE NC 27571
PHONE:	919.554.6582

FRAZIER FARM PARK
30% CONSTRUCTION DRAWINGS
11624 LOUISBURG ROAD
ROLESVILLE, NORTH CAROLINA

REVISIONS

NO.	DATE

PLAN INFORMATION

PROJECT NO.	202011039
FILENAME	202011039-C1
CHECKED BY	EMC
DRAWN BY	EMC
SCALE	1"=100'
DATE	04. 22. 2021

SHEET

EXISTING CONDITIONS

C1.00

M:\Projects\TownofRolesville\202011039 Frazier Farm Park\02-Geomatics\Survey\Topographic\202011039-C1.dwg, 5/12/2021 10:44:24 AM, Cash, Matthew

NC GRID NAD 83 (2011)

SURVEY NOTES

1. SEE SHEET C1.00 FOR SURVEY NOTES, GPS METADATA, AND SURVEYORS CERTIFICATION.

CURVE TABLE				
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LEGEND

- PROPERTY BOUNDARY
- ADJOINING PARCEL GIS SHAPEFILE
- OU — OVERHEAD UTILITY
- UT — UNDERGROUND TELEPHONE
- SD — STORM SEWER
- WOODLINE
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- TEMPORARY BENCHMARK
- LIGHT POLE
- UTILITY POLE
- TELEPHONE PEDESTAL
- O OAK
- DG DOGWOOD
- PCN PECAN

NGS "GARY" NC STATE PLANE GRID COORDINATES N:806,233.72 E:2,168,978.08

NGS "SOUTHTOWN"

CHORD BEARING: S 57°10'09" E, CHORD DISTANCE: 2,741.87' (GROUND), 2,741.97' (GRID)

N/F CASTER, DANIEL R. & ANNALEE V. PIN: 1779-08-3669 D.B. 17243, PG. 2153

N 67°01'17" E 247.78'

N/F E.C. LUMPKIN LIMITED PARTNERSHIP PIN: 1779-19-0357 D.B. 7695, PG. 481

S 89°05'11" E 937.42'

N.C. HIGHWAY 96 (VARIABLE WIDTH PUBLIC RIGHT-OF-WAY)

IRON PIPE SET NC STATE PLANE GRID COORDINATES N:798,600.38 E:2,170,265.05

TBM#160019 IRON PIPE WITH CAP AND TACK NAVD 88 ELEVATION=387.48

30' WAKE ELECTRIC MEMBERSHIP CORPORATION POWER LINE EASEMENT D.B. 11546, PG. 1909

DI RIM=383.07 15"RCP INV.IN(E)=379.99 15"RCP INV.OUT(S)=379.94

DI RIM=382.70 15"RCP INV.OUT(S)=380.07

DI RIM=376.78 15"RCP INV.IN(N)=373.76 15"RCP INV.OUT(S)=373.61

N 21°44'07" E 1105.53'

15"CMP INV.=371.04

15"CPP INV.=367.90

15"CMP INV.=370.41

15"CPP INV.=367.40

DI RIM=370.97 18"RCP INV.IN(N)=361.81 36"RCP INV.IN(E)=361.52 36"RCP INV.OUT(S)=361.43

36"RCP INV.=361.62

DI RIM=367.83 36"RCP INV.IN(N)=361.13 36"RCP INV.OUT(W)=360.86

36"RCP INV.=360.34

SHED

2-STORY FRAME HOUSE FFE=378.21

WELL HOUSE

U.S. HIGHWAY 401 LOUISBURG ROAD (VARIABLE WIDTH PUBLIC RIGHT-OF-WAY)

CREEK PINE DRIVE

N 23°31'51" E 365.87'

TBM#16000 IRON PIPE WITH CAP AND TACK NAVD 88 ELEVATION=360.12

NC DOT PERMANENT UTILITY EASEMENT D.B. 14257, PG. 341

TOWN OF ROLESVILLE PIN: 1779-07-6610 D.B. 16956, PG. 781 13,003 S.F. 0.30 AC.

N 70°17'54" W 211.40'

TOWN OF ROLESVILLE PIN: 1779-07-6610 D.B. 16956, PG. 781 5,053,891 S.F. 116.02 AC.

N/F PULLEY, MICHAEL HUGH & WILLIAM SCOTT PIN: 1779-26-3965 D.B. 17362, PG. 2427

S 65°29'00" E 3075.00' (TOTAL)

S 24°35'00" E 2835.00'

ZONE 1 AND 2 NEUSE RIVER BUFFER (50', 20', 30')

WETLAND

POND

MATCHLINE

100' WAKE ELECTRIC MEMBERSHIP CORPORATION ELECTRIC POWER LINE RIGHT OF WAY EASEMENT D.B. 2461, PG. 164

GRAPHIC SCALE
0 50 100 200
1 inch = 100 ft.

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

M:\Projects\Town\Rolesville\202011039 Frazier Farm Park\02-Geomatics\Survey\Topographic\20201110039-C1.dwg, 5/12/2021 10:44:25 AM, Cash, Matthew

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FRAZIER FARM PARK
30% CONSTRUCTION DRAWINGS
11624 LOUISBURG ROAD
ROLESVILLE, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL L-5045 LAND SURVEYOR E. MATTHEW CASH

MAY 12, 2021

REVISIONS

NO.	DATE

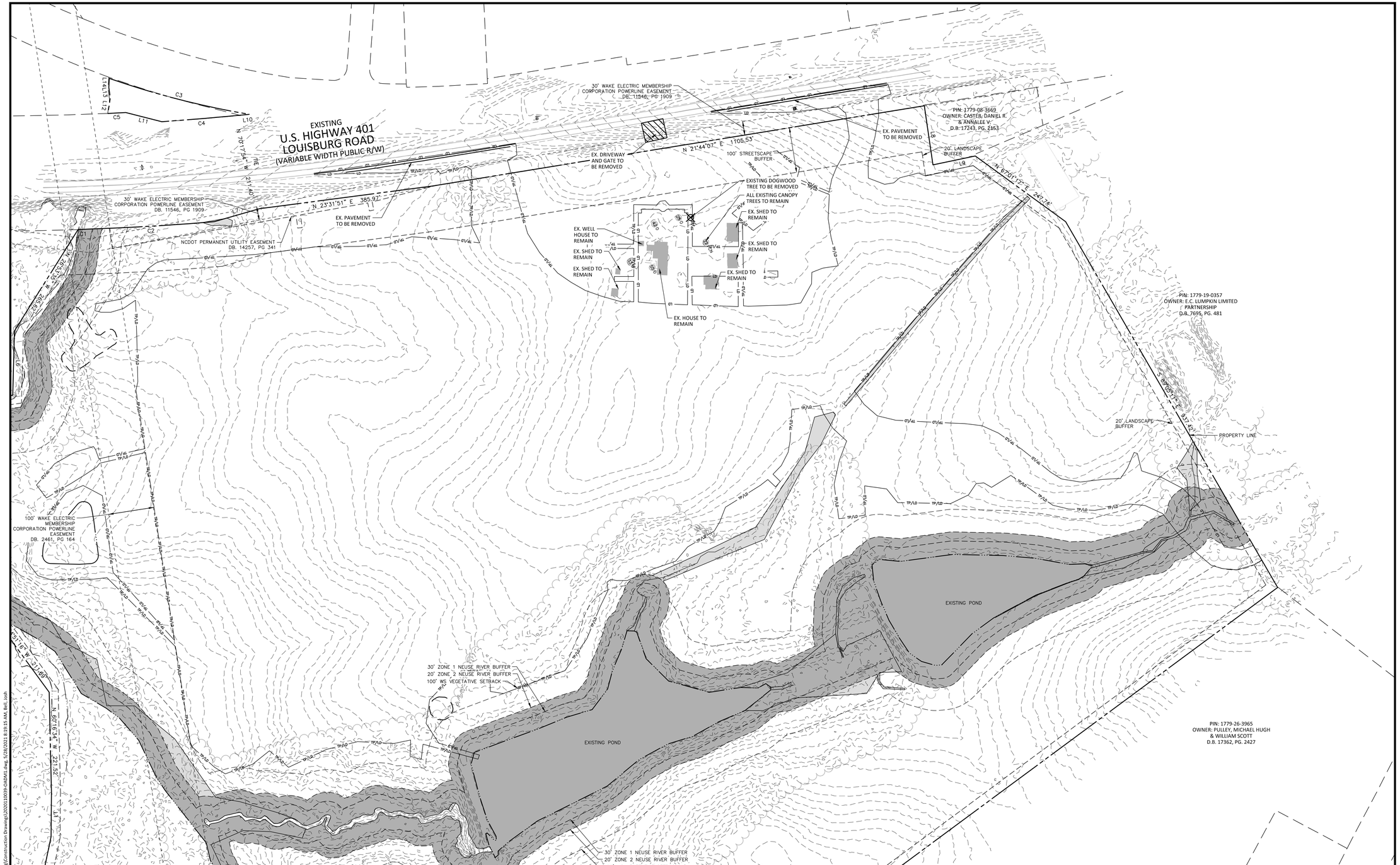
PLAN INFORMATION

PROJECT NO.	202011039
FILENAME	2020110039-C1
CHECKED BY	EMC
DRAWN BY	EMC
SCALE	1"=100'
DATE	04. 22. 2021

SHEET

EXISTING CONDITIONS

C1.01



DEMOLITION NOTES

1. UTILITY STATEMENT: THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED UNDERGROUND UTILITIES.
2. THE CONTRACTOR SHALL FIELD VERIFY AND LOCATE ALL EXISTING UTILITIES ON SITE PRIOR TO DEMOLITION.
3. THE CONTRACTOR SHALL PERFORM DEMOLITION ACTIVITIES AS NOTED AND SHOWN ON THESE PLANS AND SPECIFICATIONS AND AS DIRECTED BY THE OWNER.
4. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ANY PERMITS AND PAY FEES REQUIRED FOR DEMOLITION AND HAUL-OFF FROM THE APPROPRIATE AUTHORITIES. THESE FEES ARE TO BE INCLUDED WITH THE BID. THE CONTRACTOR SHALL PREPARE ALL DOCUMENTS AND ACQUIRE APPROPRIATE PERMITS AS REQUIRED PRIOR TO THE COMMENCEMENT OF DEMOLITION.
5. THE DEMOLITION PLAN IS INTENDED TO DEPICT GENERAL DEMOLITION AND UTILITY WORK. IT IS NOT INTENDED TO IDENTIFY EACH ELEMENT OF DEMOLITION OR RELOCATION. CONTRACTOR SHALL COORDINATE WITH THE OWNER AND APPROPRIATE UTILITY COMPANY PRIOR TO WORK.
6. CONTRACTOR SHALL COMPLETELY DEMOLISH ALL EXISTING IMPROVEMENTS NOTED FOR REMOVAL ON THE APPROVED DEMOLITION PLAN. THIS INCLUDES, AS NECESSARY, FOUNDATIONS AND OTHER APPURTENANCES LOCATED ON AND AROUND THE IMPROVEMENTS SUCH AS SIGNS, CURBS, PAVEMENT, SIDEWALKS, LIGHT POLE BASES, HYDRANTS, BOLLARDS, ETC. ALL REMOVED MATERIAL SHALL BE DISPOSED OF OFFSITE IN A LAWFUL MANNER OR RECYCLED. IF POSSIBLE, CONTRACTOR SHALL MAKE EVERY ATTEMPT TO RECYCLE ANY DEBRIS AND RUBBISH THAT IS RECYCLABLE.
7. CONTRACTOR SHALL INSTALL ALL EROSION AND SEDIMENT CONTROL DEVICES AND TREE PROTECTION PRIOR TO BEGINNING DEMOLITION WORK. CONTRACTOR SHALL TAKE EXTRA PRECAUTIONS AND CARE TO PRESERVE TREES DURING CONSTRUCTION.
8. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES TO REMAIN IN PLACE.
9. ALL EXISTING ITEMS TO REMAIN WHICH ARE DAMAGED DURING CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT THE SOLE EXPENSE OF THE CONTRACTOR.
10. CONTRACTOR TO FLAG ALL TREES SLATED FOR REMOVAL AND SEEK APPROVAL FROM LANDSCAPE ARCHITECT PRIOR TO DEMOLISHING.

DEMOLITION LEGEND

- TREE — TREE OR OTHER VEGETATION TO BE REMOVED
- UTILITY — UNDERGROUND UTILITY TO BE REMOVED
- AREA TO BE REMOVED (SIDEWALK, GRAVEL, CONCRETE PAVING, ETC.)

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF ROLESVILLE ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

GRAPHIC SCALE
0 50 100 200
1 inch = 100 ft.

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

M:\Projects\Town\Rolesville\202011039 Frazier Farm Park\04 Production\Engineering\Construction Drawings\202011039-OADM1.dwg, 9/28/2021 8:19:15 AM, Bell, Josh

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FRAZIER FARM PARK
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11624 LOUISBURG ROAD
ROLESVILLE, NORTH CAROLINA

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1960 SHWETA NANEKAR
PRELIMINARY NOT FOR CONSTRUCTION

REVISIONS

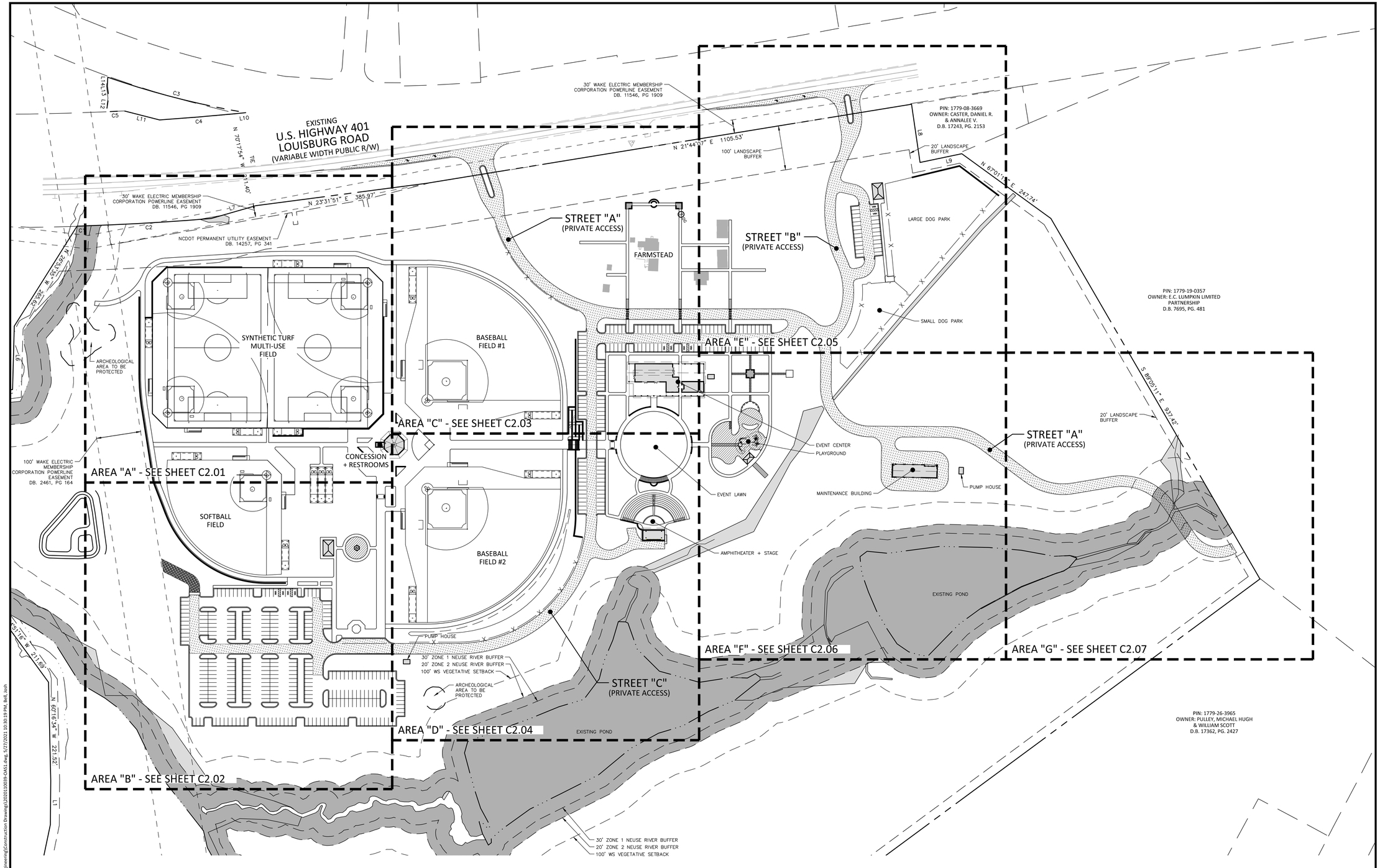
NO.	DATE

PLAN INFORMATION

PROJECT NO.	202011039
FILENAME	202011039-OADM1
CHECKED BY	SN
DRAWN BY	GLJ
SCALE	1"=100'
DATE	05. 14. 2021

SHEET

OVERALL DEMOLITION PLAN
C1.10



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0 50 100 200
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REVISIONS

NO.	DATE

PLAN INFORMATION

PROJECT NO.	202011039
FILENAME	202011039-OAS1
CHECKED BY	SN
DRAWN BY	XXX
SCALE	1"=100'
DATE	05. 14. 2021

SHEET

OVERALL SITE PLAN

C2.00

M:\Projects\Town\Rolesville\202011039 Frazier Farm Park\04 Production\Engineering\Construction Drawings\202011039-OAS1.dwg, 5/27/2021 10:39:19 PM, Bell, Josh

EXISTING
U.S. HIGHWAY 401
LOUISBURG ROAD
(VARIABLE WIDTH PUBLIC R/W)

PROPERTY LINE

NCDOT PERMANENT UTILITY EASEMENT
DB. 14257, PG 341

100' LANDSCAPE BUFFER

30' WAKE ELECTRIC MEMBERSHIP CORPORATION POWERLINE EASEMENT
DB. 11546, PG 1909

WETLAND (TYP.)

30' ZONE 1 NEUSE RIVER BUFFER
20' ZONE 2 NEUSE RIVER BUFFER
100' WS VEGETATIVE SETBACK

10' MULTI-USE PATH

SEGMENTAL RETAINING WALL
W/ FALL PROTECTION
(DESIGN BY APPROVED VENDOR)

BATTING CAGE+BULLPEN

DUGOUT

10' MULTI-USE PATH

FUTURE GREENWAY CONNECTION

BATTING CAGE+BULLPEN

ARCHEOLOGICAL AREA TO BE PROTECTED

SYNTHETIC TURF MULTI-USE FIELD
REFER TO ATHLETIC FIELD DRAWINGS BY FITFIELDS FOR DETAILS

SEGMENTAL RETAINING WALL
W/ FALL PROTECTION
(DESIGN BY APPROVED VENDOR)

MATCHLINE - SEE SHEET C2.03

SEGMENTAL RETAINING WALL
W/ FALL PROTECTION
(DESIGN BY APPROVED VENDOR)

100' WAKE ELECTRIC MEMBERSHIP CORPORATION POWERLINE EASEMENT
DB. 2461, PG 164

BATTING CAGE+BULLPEN

SEGMENTAL RETAINING WALL
W/ FALL PROTECTION
(DESIGN BY APPROVED VENDOR)

PLANT BED

CONCESSION + RESTROOMS

BATTING CAGE+BULLPEN

BASEBALL/ SOFTBALL FIELD

BATTING CAGE

PLANT BED

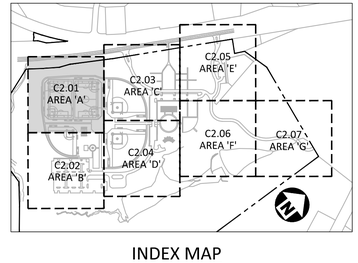
SEAT WALL (TYP.)

MATCHLINE - SEE SHEET C2.04

MATCHLINE - SEE SHEET C2.02

SITE LEGEND

- SIGNAGE
- TRAFFIC DIRECTIONAL ARROW
- ACCESSIBLE PARKING STALL (ACC)
- VAN ACCESSIBLE PARKING STALL (VAN)
- PARKING SPACE COUNT (XX)
- PROPERTY LINE
- RIGHT-OF-WAY LINE
- EASEMENT LINE
- CENTERLINE
- HEAVY DUTY ASPHALT PAVEMENT



INDEX MAP
N.T.S.

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF ROLESVILLE ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

GRAPHIC SCALE
0 15 30 60
1 inch = 30 ft.

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

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ROLESVILLE, NORTH CAROLINA

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1960 SHWETA NANEKAR
NOT FOR BIDDING, PERMITTING, OR CONSTRUCTION

REVISIONS

NO.	DATE

PLAN INFORMATION

PROJECT NO.	202011039
FILENAME	202011039-S1
CHECKED BY	SN
DRAWN BY	XXX
SCALE	1"=30'
DATE	05. 14. 2021

SHEET

SITE PLAN
AREA "A"
C2.01

M:\Projects\Town\Rolesville\202011039 Frazier Farm Park\04-Production\Engineering\Construction Drawings\202011039-S1.dwg, 5/27/2021 10:30:40 PM, Bell, Josh

MATCHLINE - SEE SHEET C2.01

MATCHLINE - SEE SHEET C2.04

SCM "B"
(SEE SHEET C9.04)

BASEBALL/SOFTBALL FIELD
REFER TO ATHLETIC FIELD DRAWINGS BY FITFIELDS FOR DETAILS

SEGMENTAL RETAINING WALL W/ FALL PROTECTION (DESIGN BY APPROVED VENDOR)

DUGOUT

BATTING CAGES

BATTING CAGE+BULLPEN

SHELTER

PLAYGROUND

GRAVEL ACCESS DRIVE

CONTROL ACCESS GATE WITH LOCK

100' WAKE ELECTRIC MEMBERSHIP CORPORATION POWERLINE EASEMENT DB. 2461, PG 164

PLANT BED

10 SPACES | 7 SPACES | 4 SPACES (VAN)

CHAMPIONS PROMENADE

PLANT BED
CHAMPIONS PLAZA

12 SPACES | 6 SPACES | 7 SPACES | 7 SPACES | 7 SPACES | 7 SPACES | 7 SPACES | 7 SPACES | 7 SPACES

STREET "C"
(PRIVATE ACCESS)

17 SPACES

13 SPACES

11 SPACES | 11 SPACES | 11 SPACES | 11 SPACES | 11 SPACES | 11 SPACES

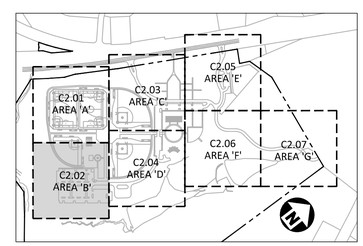
9 SPACES | 10 SPACES | 11 SPACES | 10 SPACES

WETLAND (TYP.)

30' ZONE 1 NEUSE RIVER BUFFER
20' ZONE 2 NEUSE RIVER BUFFER
100' WS VEGETATIVE SETBACK

SITE LEGEND

- SIGNAGE
- TRAFFIC DIRECTIONAL ARROW
- ACCESSIBLE PARKING STALL (ACC)
- VAN ACCESSIBLE PARKING STALL (VAN)
- PARKING SPACE COUNT (XX)
- PROPERTY LINE
- RIGHT-OF-WAY LINE
- EASEMENT LINE
- CENTERLINE
- HEAVY DUTY ASPHALT PAVEMENT



INDEX MAP
N.T.S.

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF ROLESVILLE ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

GRAPHIC SCALE
0 15 30 60
1 inch = 30 ft.

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

M:\Projects\TownRoles\wlh\202011039 Frazier Farm Park\04-Production\Engineering\Construction Drawings\202011039-S1.dwg, 5/27/2021 10:30:42 PM, BdE, kah

McAdams
The John R. McAdams Company, Inc.
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CLIENT

NAME	TOWN OF ROLESVILLE
ADDRESS	502 SOUTHTOWN CIRCLE
ADDRESS	ROLESVILLE NC 27571
PHONE:	919.554.6582

FRAZIER FARM PARK
30% CONSTRUCTION DRAWINGS
11624 LOUISBURG ROAD
ROLESVILLE, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 049960 SAHWETA NAIKAR — NOT FOR CONSTRUCTION — PRELIMINARY

REVISIONS

NO.	DATE

PLAN INFORMATION

PROJECT NO.	202011039
FILENAME	202011039-S1
CHECKED BY	SN
DRAWN BY	XXX
SCALE	1"=30'
DATE	05. 14. 2021

SHEET

SITE PLAN
AREA "B"

C2.02

EXISTING
U.S. HIGHWAY 401
LOUISBURG ROAD
(VARIABLE WIDTH PUBLIC R/W)

PROPERTY LINE

30' WAKE ELECTRIC MEMBERSHIP CORPORATION POWERLINE EASEMENT DB. 11546, PG 1909

LANDSCAPED MEDIAN

100' LANDSCAPE BUFFER

R100'

MATCHLINE - SEE SHEET C2.01

10' MULTI-USE PATH

GUARDRAIL (TYP.)

BATTING CAGE+BULLPEN

STREET "A"
(PRIVATE ACCESS)

BASEBALL FIELD #1

REFER TO ATHLETIC FIELD DRAWINGS BY FITFIELDS FOR DETAILS

DUGOUT

STREET "C"
(PRIVATE ACCESS)

SEGMENTAL RETAINING WALL W/ FALL PROTECTION (DESIGN BY APPROVED VENDOR)

BATTING CAGE+BULLPEN

PLANT BED

SEAT WALL (TYP.)

DUGOUT

MATCHLINE - SEE SHEET C2.04

GATHERING AREAS

CHAPEL HILL GRAVEL PATH WITH METAL EDGING

FARMHOUSE AND SURROUNDING STRUCTURES TO REMAIN. PROTECT IN PLACE.

DG

MATCHLINE - SEE SHEET C2.05

BRIDGE
HIGH VISIBILITY CROSSWALK

BRIDGE
HIGH VISIBILITY CROSSWALK

4 SPACES
11 SPACES
4 SPACES
10 SPACES
VAN
VAN
VAN
VAN

15 SPACES
8 SPACES
6 SPACES
9 SPACES

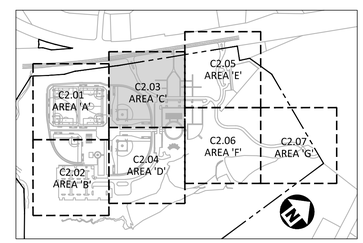
EVENT CENTER

CONCRETE PATH (TYP.)

SEAT WALL WITH PIERS AT ENDS

EVENT LAWN

MATCHLINE - SEE SHEET C2.06



INDEX MAP
N.T.S.

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF ROLESVILLE ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

GRAPHIC SCALE
0 15 30 60
1 inch = 30 ft.

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

SITE LEGEND

- SIGNAGE
- TRAFFIC DIRECTIONAL ARROW
- ACCESSIBLE PARKING STALL (ACC)
- VAN ACCESSIBLE PARKING STALL (VAN)
- PARKING SPACE COUNT (XX)
- PROPERTY LINE
- RIGHT-OF-WAY LINE
- EASEMENT LINE
- CENTERLINE
- HEAVY DUTY ASPHALT PAVEMENT

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FRAZIER FARM PARK
30% CONSTRUCTION DRAWINGS
11624 LOUISBURG ROAD
ROLESVILLE, NORTH CAROLINA

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1960 SHWETA NANEKAR
NOT FOR CONSTRUCTION PRELIMINARY

REVISIONS

NO.	DATE

PLAN INFORMATION

PROJECT NO.	202011039
FILENAME	202011039-S1
CHECKED BY	SN
DRAWN BY	XXX
SCALE	1"=30'
DATE	05. 14. 2021

SHEET

SITE PLAN
AREA "C"
C2.03

K:\Projects\Town\Rolesville\202011039 Frazier Farm Park\04-Production\Engineering\Construction Drawings\202011039-S1.dwg, 5/27/2021 10:30:46 PM, Bell, Josh

MATCHLINE - SEE SHEET C2.03

MATCHLINE - SEE SHEET C2.01

MATCHLINE - SEE SHEET C2.02

MATCHLINE - SEE SHEET C2.06

CONCESSION + RESTROOMS

FLAGPOLE (3-TYP.)

PAVERS ON CONCRETE

20'

DUGOUT

BATTING CAGE+BULLPEN

STAIRS

ENTRY ARBOR

SEAT WALL

EVENT LAWN

ARBOR

SEAT WALL

R75'

CURVED ARBOR

10'

SEAT WALL

6'

AMPHITHEATER SEATING WALLS SEE ARCHITECT'S DRAWINGS FOR DETAILS

VEHICULAR RATED PAVERS WITH ROLLED CURB

14 SPACES

14 SPACES

SEGMENTAL RETAINING WALL W/ FALL PROTECTION (DESIGN BY APPROVED VENDOR)

DUGOUT

RETAINING WALL W/ FALL PROTECTION (DESIGN BY APPROVED VENDOR)

AMPHITHEATER STAGE

BASEBALL FIELD #2

REFER TO ATHLETIC FIELD DRAWINGS BY FITFIELDS FOR DETAILS

WETLAND (TYP.)

GUARDRAIL/FALL PROTECTION (TYP.)

STREET "C" (PRIVATE ACCESS)

BATTING CAGE+BULLPEN

10' MULTI-USE PATH

APPROXIMATE EDGE OF POND

30' ZONE 1 NEUSE RIVER BUFFER
20' ZONE 2 NEUSE RIVER BUFFER
100' WS VEGETATIVE SETBACK

PUMP HOUSE

9 SPACES

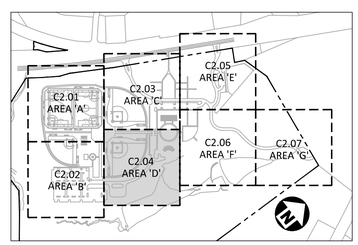
ARCHEOLOGICAL AREA TO BE PROTECTED

EXISTING POND

SITE LEGEND

- SIGNAGE
- TRAFFIC DIRECTIONAL ARROW
- ACCESSIBLE PARKING STALL
- VAN ACCESSIBLE PARKING STALL
- PARKING SPACE COUNT
- PROPERTY LINE
- RIGHT-OF-WAY LINE
- EASEMENT LINE
- CENTERLINE
- HEAVY DUTY ASPHALT PAVEMENT

ACC
VAN
XX



INDEX MAP
N.T.S.

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF ROLESVILLE ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

GRAPHIC SCALE
0 15 30 60
1 inch = 30 ft.

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

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FRAZIER FARM PARK
30% CONSTRUCTION DRAWINGS
11624 LOUISBURG ROAD
ROLESVILLE, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 049960 SAHWETA NAIKKAR

REVISIONS

NO.	DATE

PLAN INFORMATION

PROJECT NO.	202011039
FILENAME	202011039-S1
CHECKED BY	SN
DRAWN BY	XXX
SCALE	1"=30'
DATE	05. 14. 2021

SHEET

SITE PLAN
AREA "D"

C2.04

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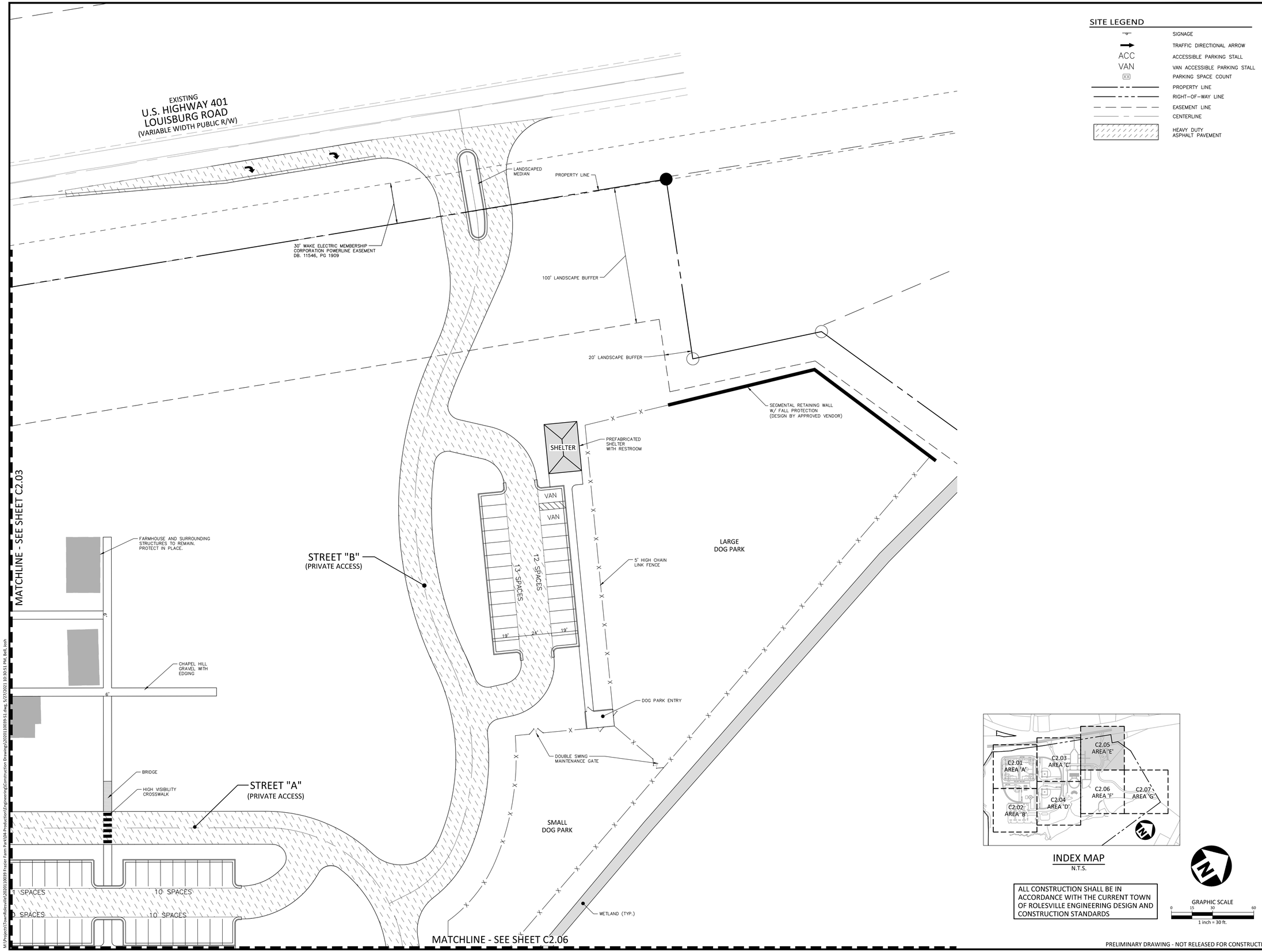

SITE LEGEND

- SIGNAGE
- TRAFFIC DIRECTIONAL ARROW
- ACC — ACCESSIBLE PARKING STALL
- VAN — VAN ACCESSIBLE PARKING STALL
- XX — PARKING SPACE COUNT
- PROPERTY LINE
- RIGHT-OF-WAY LINE
- EASEMENT LINE
- CENTERLINE
- HEAVY DUTY ASPHALT PAVEMENT

INDEX MAP
N.T.S.

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GRAPHIC SCALE
0 15 30 60
1 inch = 30 ft.

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

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FRAZIER FARM PARK
30% CONSTRUCTION DRAWINGS
11624 LOUISBURG ROAD
ROLESVILLE, NORTH CAROLINA

NORTH CAROLINA 1960 SHWETA NANEKAR
PRELIMINARY NOT FOR CONSTRUCTION

REVISIONS

NO.	DATE

PLAN INFORMATION

PROJECT NO.	202011039
FILENAME	202011039-S1
CHECKED BY	SN
DRAWN BY	XXX
SCALE	1"=30'
DATE	05. 14. 2021

SHEET

SITE PLAN
AREA "E"

C2.05

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MATCHLINE - SEE SHEET C2.05

MATCHLINE - SEE SHEET C2.03

MATCHLINE - SEE SHEET C2.04

MATCHLINE - SEE SHEET C2.07

PUMP HOUSE

SEAT WALL

PUBLIC ART SCULPTURE BASE

STEPPING BOULDERS (TYP.)

EMBANKMENT PLAY

LANDSCAPED ISLAND

PLAYGROUND

SHELTER

COMPOSITE DECKING WETLAND VIEWING PLATFORM

STREET "A"
(PRIVATE ACCESS)

MAINTENANCE BUILDING

PUMP HOUSE

WETLAND (TYP.)

30' ZONE 1 NEUSE RIVER BUFFER
20' ZONE 2 NEUSE RIVER BUFFER
100' WS VEGETATIVE SETBACK

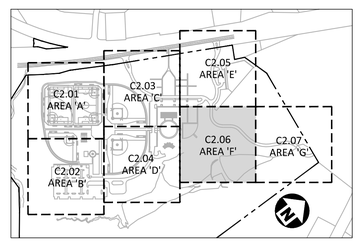
APPROXIMATE EDGE OF POND

EXISTING POND

WETLAND (TYP.)

SITE LEGEND

-o-	SIGNAGE
	TRAFFIC DIRECTIONAL ARROW
ACC	ACCESSIBLE PARKING STALL
VAN	VAN ACCESSIBLE PARKING STALL
XX	PARKING SPACE COUNT
	PROPERTY LINE
	RIGHT-OF-WAY LINE
	EASEMENT LINE
	CENTERLINE
	HEAVY DUTY ASPHALT PAVEMENT



INDEX MAP
N.T.S.

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GRAPHIC SCALE
0 15 30 60
1 inch = 30 ft.

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

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FRAZIER FARM PARK
30% CONSTRUCTION DRAWINGS
11624 LOUISBURG ROAD
ROLESVILLE, NORTH CAROLINA

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1960 SAWETA NAMEKAR
PRELIMINARY NOT FOR CONSTRUCTION

REVISIONS

NO.	DATE

PLAN INFORMATION

PROJECT NO.	202011039
FILENAME	202011039-S1
CHECKED BY	SN
DRAWN BY	XXX
SCALE	1"=30'
DATE	05. 14. 2021

SHEET

SITE PLAN
AREA "F"

C2.06

I:\Projects\Town\Rolesville\202011039 Frazier Farm Park\04-Production\Engineering\Construction Drawings\202011039-S1.dwg, 5/27/2021 10:30:54 PM, Bell, Josh

MATCHLINE - SEE SHEET C2.06

PROPERTY LINE
20' LANDSCAPE BUFFER

STREET "A"
(PRIVATE ACCESS)

WETLAND (TYP.)

30' ZONE 1 NEUSE RIVER BUFFER
20' ZONE 2 NEUSE RIVER BUFFER
100' WS VEGETATIVE SETBACK

APPROXIMATE EDGE OF POND

WETLAND (TYP.)

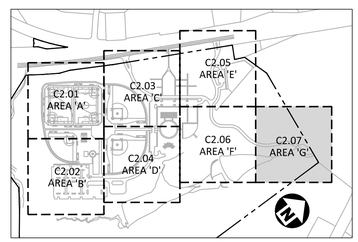
ROAD STUB
FOR CONNECTIVITY TO
HIGHWAY 96

PIN: 1779-19-0357
OWNER: E.C. LUMPKIN LIMITED PARTNERSHIP
D.B. 7695, PG. 481

PIN: 1779-26-3965
OWNER: PULLEY, MICHAEL HUGH & WILLIAM SCOTT
D.B. 17362, PG. 2427

SITE LEGEND

- SIGNAGE
- TRAFFIC DIRECTIONAL ARROW
- ACC — ACCESSIBLE PARKING STALL
- VAN — VAN ACCESSIBLE PARKING STALL
- XX — PARKING SPACE COUNT
- PROPERTY LINE
- RIGHT-OF-WAY LINE
- EASEMENT LINE
- CENTERLINE
- HEAVY DUTY ASPHALT PAVEMENT



INDEX MAP
N.T.S.

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF ROLESVILLE ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

GRAPHIC SCALE
0 15 30 60
1 inch = 30 ft.

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

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PHONE:	919.554.6582

FRAZIER FARM PARK
30% CONSTRUCTION DRAWINGS
11624 LOUISBURG ROAD
ROLESVILLE, NORTH CAROLINA

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1960 SHWETA NANEKAR
NOT FOR CONSTRUCTION PURPOSES

REVISIONS

NO.	DATE

PLAN INFORMATION

PROJECT NO.	202011039
FILENAME	202011039-S1
CHECKED BY	SN
DRAWN BY	XXX
SCALE	1"=30'
DATE	05. 14. 2021

SHEET

SITE PLAN
AREA "G"

C2.07

K:\Projects\Town\Rolesville\202011039 Frazier Farm Park\04-Production\Engineering\Construction Drawings\202011039-S1.dwg, 5/27/2021 10:30:57 PM, Bell, Josh

EXISTING
U.S. HIGHWAY 401
LOUISBURG ROAD
(VARIABLE WIDTH PUBLIC R/W)

30' WAKE ELECTRIC MEMBERSHIP CORPORATION POWERLINE EASEMENT DB. 11546, PG 1909

30' WAKE ELECTRIC MEMBERSHIP CORPORATION POWERLINE EASEMENT DB. 11546, PG 1909

NCDOT PERMANENT UTILITY EASEMENT DB. 14257, PG 341

PIN: 1779-08-3669
OWNER: CASTER, DANIEL R. & ANNALEE V.
D.B. 17243, PG. 2153

20' LANDSCAPE BUFFER

100' LANDSCAPE BUFFER

STREET "A"
(PRIVATE ACCESS)

STREET "B"
(PRIVATE ACCESS)

FARMSTEAD

LARGE DOG PARK

SMALL DOG PARK

PIN: 1779-19-0357
OWNER: E.C. LUMPKIN LIMITED PARTNERSHIP
D.B. 7695, PG. 481

MULTI-USE FIELD

BASEBALL FIELD #1

AREA "E" - SEE SHEET C3.05

CULVERT #2

PROPERTY LINE (PROVIDED BY GIS, BOUNDARY SURVEY WILL BE REFLECTED ON 30% DRAWINGS)

20' LANDSCAPE BUFFER

STREET "A"
(PRIVATE ACCESS)

AREA "C" - SEE SHEET C3.03

CONCESSION + RESTROOMS

EVENT CENTER
PLAYGROUND

AREA "A" - SEE SHEET C3.01

EVENT LAWN

MAINTENANCE BUILDING

CULVERT #1

100' WAKE ELECTRIC MEMBERSHIP CORPORATION POWERLINE EASEMENT DB. 2461, PG 164

SCM "B" (SEE SHEET C9.04)

SOFTBALL FIELD

BASEBALL FIELD #2

AMPITHEATER + STAGE

SCM "A" (SEE SHEET C9.00)

EXISTING POND

30' ZONE 1 NEUSE RIVER BUFFER
20' ZONE 2 NEUSE RIVER BUFFER

30' ZONE 1 NEUSE RIVER BUFFER
20' ZONE 2 NEUSE RIVER BUFFER
100' WS VEGETATIVE SETBACK

AREA "F" - SEE SHEET C3.06

AREA "G" - SEE SHEET C3.07

STREET "C"
(PRIVATE ACCESS)

AREA "D" - SEE SHEET C3.04

EXISTING POND

PIN: 1779-26-3965
OWNER: PULLEY, MICHAEL HUGH & WILLIAM SCOTT
D.B. 17362, PG. 2427

AREA "B" - SEE SHEET C3.02

30' ZONE 1 NEUSE RIVER BUFFER
20' ZONE 2 NEUSE RIVER BUFFER
100' WS VEGETATIVE SETBACK

30' ZONE 1 NEUSE RIVER BUFFER
20' ZONE 2 NEUSE RIVER BUFFER

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF ROLESVILLE ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

GRAPHIC SCALE
0 50 100 200
1 inch = 100 ft.

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

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ROLESVILLE, NORTH CAROLINA

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1960 SHWETA NANEKAR
PRELIMINARY NOT FOR CONSTRUCTION

REVISIONS

NO.	DATE

PLAN INFORMATION

PROJECT NO.	202011039
FILENAME	202011039-G1
CHECKED BY	SN
DRAWN BY	XXX
SCALE	1"=100'
DATE	05. 14. 2021

SHEET

OVERALL GRADING PLAN

C3.00

X:\Projects\Town\Rolesville\202011039 Frazier Farm Park\04 Production\Engineering\Construction Drawings\202011039-G1.dwg, 5/27/2021 10:48:17 PM, Bell, Josh

EXISTING
U.S. HIGHWAY 401
LOUISBURG ROAD
(VARIABLE WIDTH PUBLIC R/W)

PROPERTY LINE

30' WAKE ELECTRIC MEMBERSHIP CORPORATION POWERLINE EASEMENT DB. 11546, PG 1909

100' LANDSCAPE BUFFER

NCDOT PERMANENT UTILITY EASEMENT DB. 14257, PG 341

WETLAND (TYP.)

TREE PROTECTION/LIMITS OF DISTURBANCE

JUNCTION BOX

SEGMENTAL RETAINING WALL W/ FALL PROTECTION (DESIGN BY APPROVED VENDOR)

10' MULTI-USE PATH

30' ZONE 1 NEUSE RIVER BUFFER
20' ZONE 2 NEUSE RIVER BUFFER
100' WS VEGETATIVE SETBACK

TW=355.15
BW=351.00

TW=355.90
BW=355.23

TW=355.00
BW=351.50

TW=353.00
BW=352.33

TW=354.97
BW=354.30

TW=358.27
BW=357.60

MULTI-USE FIELD

TW=361.00
BW=357.60

30" HDPE STORM DRAINAGE

TW=354.50
BW=349.00

TW=364.00
BW=357.60

100' WAKE ELECTRIC MEMBERSHIP CORPORATION POWERLINE EASEMENT DB. 2461, PG 164

CONNECTION TO FIELD UNDERDRAIN SYSTEM SEE SHEET C9.10

CONNECTION TO FIELD UNDERDRAIN SYSTEM SEE SHEET 9.10

TW=360.90
BW=356.70

TW=360.75
BW=356.90

TW=364.00
BW=357.45

36" HDPE STORM DRAINAGE

TW=357.17
BW=356.50

CONCESSION + RESTROOMS

ENDWALL

TW=353.50
BW=349.00

42" RCP STORM DRAINAGE

CONNECTION TO FIELD UNDERDRAIN SYSTEM SEE SHEET C9.08

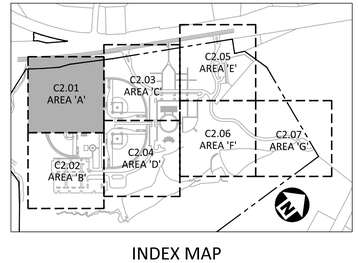
MATCHLINE - SEE SHEET C3.02

MATCHLINE - SEE SHEET C3.03

MATCHLINE - SEE SHEET C3.04

GRADING LEGEND

- FLARED END SECTION
- ENDWALL SECTION
- CATCH BASIN
- DROP INLET
- STORM SERVICE INLET
- JUNCTION BOX
- DRAINAGE FLOW ARROW
- TW=223.00 / BW=213.00 — TOP OF WALL ELEVATION / BOTTOM OF WALL ELEVATION (NOTE: BOTTOM OF WALL IS GROUND ELEVATION NOT WALL FOUNDATION)
- + 250.60 — SPOT ELEVATION
- STORM DRAINAGE
- STORM SERVICE LINE
- TP TP TP — TREE PROTECTION FENCE
- LD LD — LIMITS OF DISTURBANCE
- WOODED AREA
- 250 — MAJOR CONTOUR
- 252 — MINOR CONTOUR
- 250 — EXISTING MAJOR CONTOUR
- 252 — EXISTING MINOR CONTOUR
- EASEMENT LINE
- ACCESSIBLE PARKING AREA (2% MAX. SLOPE IN ALL DIRECTIONS)



INDEX MAP
N.T.S.

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF ROLESVILLE ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

GRAPHIC SCALE
0 15 30 60
1 inch = 30 ft.

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

McADAMS
The John R. McAdams Company, Inc.
2905 Meridian Parkway
Durham, NC 27713

phone 919. 361. 5000
fax 919. 361. 2269
license number: C-0293

www.mcadamsco.com

CLIENT

NAME	TOWN OF ROLESVILLE
ADDRESS	502 SOUTHTOWN CIRCLE
ADDRESS	ROLESVILLE NC 27571
PHONE:	919.554.6582

FRAZIER FARM PARK
30% CONSTRUCTION DRAWINGS
11624 LOUISBURG ROAD
ROLESVILLE, NORTH CAROLINA

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1960 SHWETA NANEKAR
NOT FOR BIDDING OR CONSTRUCTION

REVISIONS

NO.	DATE

PLAN INFORMATION

PROJECT NO.	202011039
FILENAME	202011039-G1
CHECKED BY	SN
DRAWN BY	XXX
SCALE	1"=30'
DATE	05. 14. 2021

SHEET

GRADING PLAN
AREA "A"
C3.01

M:\Projects\Town\Rolesville\202011039 Frazier Farm Park\04 Production\Engineering\Construction Drawings\202011039-G1.dwg, 5/27/2021 10:46:18 PM, Beth_Josh

MATCHLINE - SEE SHEET C3.01

MATCHLINE - SEE SHEET C3.04

SCM "B"
(SEE SHEET C9.04)

TREE PROTECTION/LIMITS OF DISTURBANCE

ENDWALL

TW=354.50
BW=350.00

SOFTBALL FIELD

SEGMENTAL RETAINING WALL W/ FALL PROTECTION (DESIGN BY APPROVED VENDOR)

DROP INLET

15" HDPE STORM DRAINAGE

SHELTER

PLAYGROUND

GRAVEL ACCESS DRIVE

100' WAKE ELECTRIC MEMBERSHIP CORPORATION POWERLINE EASEMENT
DB. 2461, PG 164

TW=354.50
BW=352.00

TW=354.67
BW=354.00

ACCESSIBLE PARKING AREA (TYP.)

36" RCP STORM DRAINAGE

CATCH BASIN

30" HDPE STORM DRAINAGE

24" HDPE STORM DRAINAGE

18" HDPE STORM DRAINAGE

STREET "C"
(PRIVATE ACCESS)

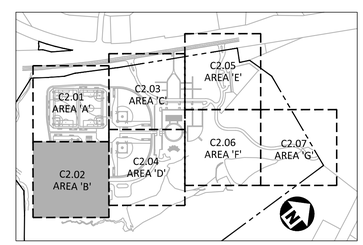
WETLAND (TYP.)

30' ZONE 1 NEUSE RIVER BUFFER
20' ZONE 2 NEUSE RIVER BUFFER
100' WS VEGETATIVE SETBACK

TREE PROTECTION/LIMITS OF DISTURBANCE

GRADING LEGEND

- FLARED END SECTION
- ENDWALL SECTION
- CATCH BASIN
- DROP INLET
- STORM SERVICE INLET
- JUNCTION BOX
- DRAINAGE FLOW ARROW
- TW=223.00 / BW=213.00 — TOP OF WALL ELEVATION / BOTTOM OF WALL ELEVATION (NOTE: BOTTOM OF WALL IS GROUND ELEVATION NOT WALL FOUNDATION)
- + 250.60 — SPOT ELEVATION
- STORM DRAINAGE
- STORM SERVICE LINE
- TP TP TP — TREE PROTECTION FENCE
- LD LD — LIMITS OF DISTURBANCE
- WOODED AREA
- 250 — MAJOR CONTOUR
- 252 — MINOR CONTOUR
- 250 — EXISTING MAJOR CONTOUR
- 252 — EXISTING MINOR CONTOUR
- EASEMENT LINE
- ACCESSIBLE PARKING AREA (2% MAX. SLOPE IN ALL DIRECTIONS)



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ROLESVILLE, NORTH CAROLINA

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1960 SAWETA NANEKAR — NOT FOR CONSTRUCTION

REVISIONS

NO.	DATE

PLAN INFORMATION

PROJECT NO.	202011039
FILENAME	202011039-G1
CHECKED BY	SN
DRAWN BY	XXX
SCALE	1"=30'
DATE	05. 14. 2021

SHEET

GRADING PLAN
AREA "B"

C3.02

M:\Projects\Town\Rolesville\202011039 Frazier Farm Park\04 Production\Engineering\Construction Drawings\202011039-G1.dwg, 5/27/2021 10:46:24 PM, Beth Joth

EXISTING
U.S. HIGHWAY 401
LOUISBURG ROAD
(VARIABLE WIDTH PUBLIC R/W)

FLARED END SECTION (TYP.)

30' WAKE ELECTRIC MEMBERSHIP CORPORATION POWERLINE EASEMENT DB. 11546, PG 1909

PROPERTY LINE

15" CLASS IV RCP STORM DRAINAGE

100' LANDSCAPE BUFFER

TREE PROTECTION/LIMITS OF DISTURBANCE

30" HDPE STORM DRAINAGE

HEADWALL (TYP.)

10' MULTI-USE PATH

DROP INLET

STREET "A"
(PRIVATE ACCESS)

18" HDPE STORM DRAINAGE

FLARED END SECTION (TYP.)

15" HDPE STORM DRAINAGE

DROP INLET

TW=370.60
BW=369.90

BASEBALL FIELD #1

10' MULTI-USE PATH

CATCH BASIN

STREET "C"
(PRIVATE ACCESS)

SEGMENTAL RETAINING WALL W/ FALL PROTECTION (DESIGN BY APPROVED VENDOR)

TW=372.50
BW=363.00

TW=373.35
BW=363.00

MATCHLINE - SEE SHEET C3.04

MATCHLINE - SEE SHEET C3.01

FARMHOUSE AND SURROUNDING STRUCTURES TO REMAIN. PROTECT IN PLACE.

ACCESSIBLE PARKING AREA (TYP.)

CATCH BASIN

CATCH BASIN

18" HDPE STORM DRAINAGE

24" HDPE STORM DRAINAGE

EVENT CENTER

EVENT LAWN

MATCHLINE - SEE SHEET C3.05

MATCHLINE - SEE SHEET C3.06

GRADING LEGEND

- FLARED END SECTION
- ENDWALL SECTION
- CATCH BASIN
- DROP INLET
- STORM SERVICE INLET
- JUNCTION BOX
- DRAINAGE FLOW ARROW
- TW=223.00 / BW=213.00 — TOP OF WALL ELEVATION / BOTTOM OF WALL ELEVATION (NOTE: BOTTOM OF WALL IS GROUND ELEVATION NOT WALL FOUNDATION)
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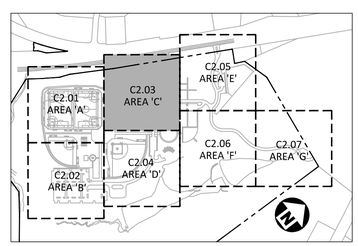
- ACCESSIBLE PARKING AREA (2% MAX. SLOPE IN ALL DIRECTIONS)



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30% CONSTRUCTION DRAWINGS
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ROLESVILLE, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 049160 SIDDHESHWAR NAMEKAR — NOT FOR CONSTRUCTION

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CHECKED BY	SN
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DATE	05. 14. 2021

SHEET

GRADING PLAN
AREA "C"
C3.03

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MATCHLINE - SEE SHEET C3.03

MATCHLINE - SEE SHEET C3.01

MATCHLINE - SEE SHEET C3.02

MATCHLINE - SEE SHEET C3.06

CONCESSION + RESTROOMS

BASEBALL FIELD #2

JUNCTION BOX

FLARED END SECTION

24" HDPE STORM DRAINAGE

CATCH BASIN

TW=373.35
BW=363.00

15" HDPE STORM DRAINAGE

EVENT LAWN

AMPHITHEATER SEATING WALLS SEE ARCHITECT'S DRAWINGS FOR DETAILS

SEGMENTAL RETAINING WALL W/ FALL PROTECTION (DESIGN BY APPROVED VENDOR)

10' MULTI-USE PATH

TW=372.00
BW=363.00

RETAINING WALL W/ FALL PROTECTION (DESIGN BY APPROVED VENDOR)

TW=371.25
BW=364.25

AMPHITHEATER STAGE

BANK STABILIZATION - SEE LANDSCAPE PLAN

SCM "A"
(SEE SHEET C9.00)

TREE PROTECTION/LIMITS OF DISTURBANCE

WETLAND (TYP.)

RISER STRUCTURE
(SEE SHEET C9.00)

STREET "C"
(PRIVATE ACCESS)

30' ZONE 1 NEUSE RIVER BUFFER
20' ZONE 2 NEUSE RIVER BUFFER
100' WS VEGETATIVE SETBACK

PUMP HOUSE

24" RCP STORM DRAINAGE

ARCHAEOLOGICAL AREA

EXISTING POND

ENDWALL

TP/LD

GRADING LEGEND

- FLARED END SECTION
- ENDWALL SECTION
- CATCH BASIN
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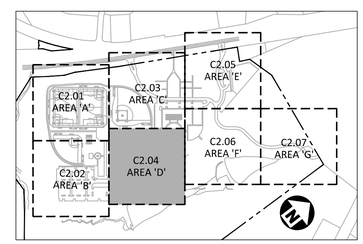

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PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

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FRAZIER FARM PARK
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ROLESVILLE, NORTH CAROLINA

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1960 SHWETA NANEKAR

REVISIONS

NO. DATE

PLAN INFORMATION

PROJECT NO.	202011039
FILENAME	202011039-G1
CHECKED BY	SN
DRAWN BY	XXX
SCALE	1"=30'
DATE	05. 14. 2021

SHEET

GRADING PLAN
AREA "D"

C3.04

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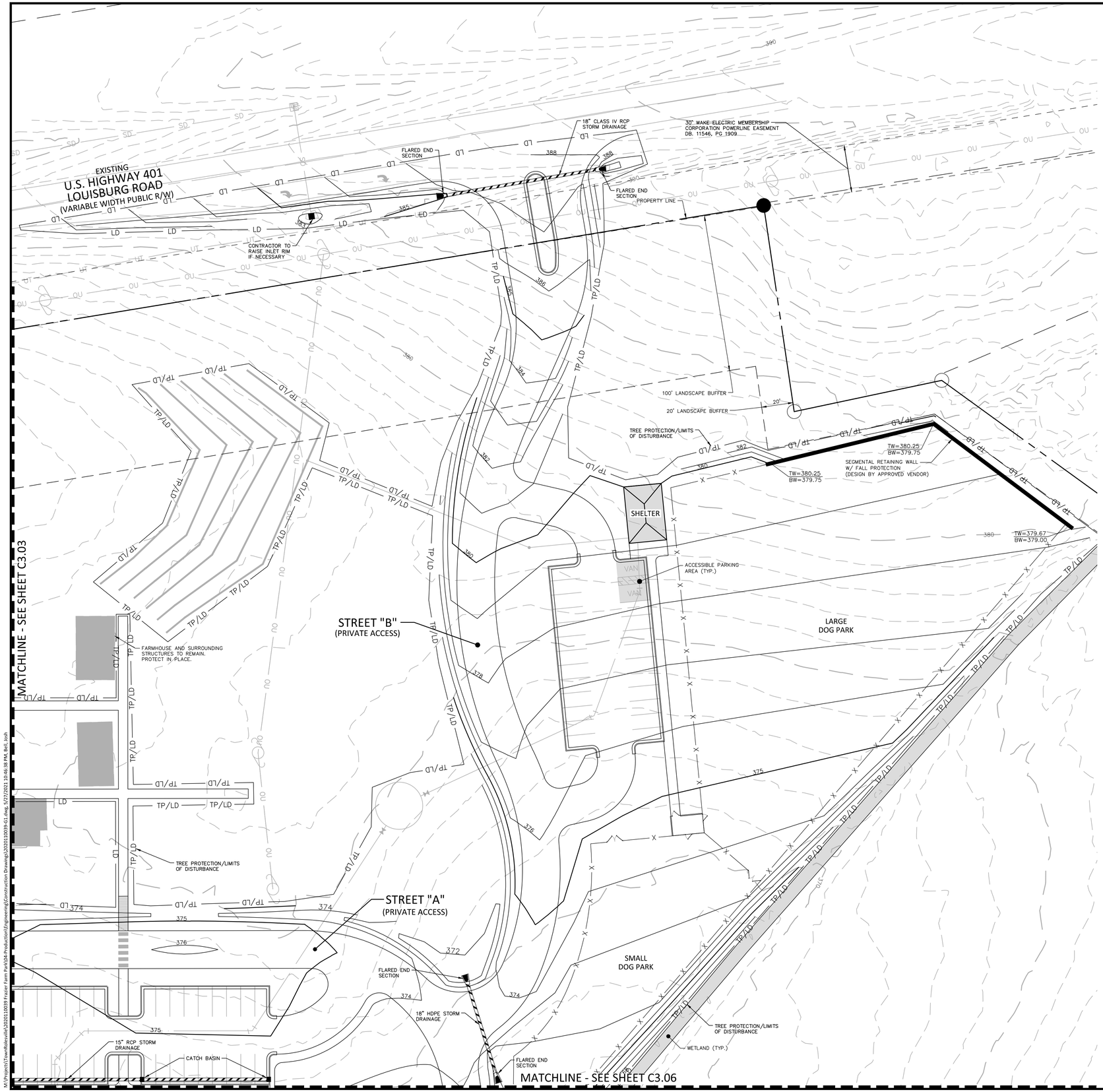

GRADING LEGEND

- FLARED END SECTION
- ENDWALL SECTION
- CATCH BASIN
- DROP INLET
- STORM SERVICE INLET
- JUNCTION BOX
- DRAINAGE FLOW ARROW
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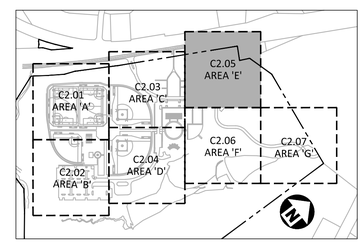

INDEX MAP
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ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF ROLESVILLE ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

GRAPHIC SCALE
0 15 30 60
1 inch = 30 ft.

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

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FRAZIER FARM PARK
30% CONSTRUCTION DRAWINGS
11624 LOUISBURG ROAD
ROLESVILLE, NORTH CAROLINA

NORTH CAROLINA LANDSCAPE ARCHITECT 1960 SHWETA NANEKAR
NOT FOR CONSTRUCTION PRELIMINARY

REVISIONS

NO.	DATE

PLAN INFORMATION

PROJECT NO.	202011039
FILENAME	202011039-G1
CHECKED BY	SN
DRAWN BY	XXX
SCALE	1"=30'
DATE	05. 14. 2021

SHEET

GRADING PLAN
AREA "E"
C3.05

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MATCHLINE - SEE SHEET C3.05

MATCHLINE - SEE SHEET C3.03

MATCHLINE - SEE SHEET C3.04

MATCHLINE - SEE SHEET C3.07

PUMP HOUSE

PLAYGROUND

SHELTER

TREX BOARDWALK

STREET "A"
(PRIVATE ACCESS)

CULVERT #2
(2) RCP 54" BARRELS

TREE PROTECTION/LIMITS OF DISTURBANCE

MAINTENANCE BUILDING

PUMP HOUSE

WETLAND (TYP.)

30' ZONE 1 NEUSE RIVER BUFFER
20' ZONE 2 NEUSE RIVER BUFFER
100' WS VEGETATIVE SETBACK

APPROXIMATE EDGE OF POND

EXISTING POND

WETLAND (TYP.)

GRADING LEGEND

- FLARED END SECTION
- ENDWALL SECTION
- CATCH BASIN
- DROP INLET
- STORM SERVICE INLET
- JUNCTION BOX
- DRAINAGE FLOW ARROW
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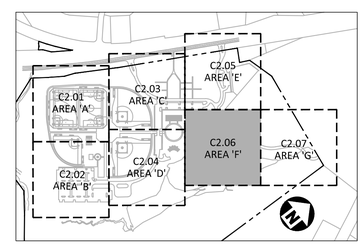

INDEX MAP
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0 15 30 60
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FRAZIER FARM PARK

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ROLESVILLE, NORTH CAROLINA

NORTH CAROLINA
PROFESSIONAL ENGINEER
SAWETA NAMEKAR
1960
NOT FOR CONSTRUCTION

REVISIONS

NO. DATE

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PROJECT NO.	202011039
FILENAME	202011039-G1
CHECKED BY	SN
DRAWN BY	XXX
SCALE	1"=30'
DATE	05. 14. 2021

SHEET

GRADING PLAN
AREA "F"

C3.06

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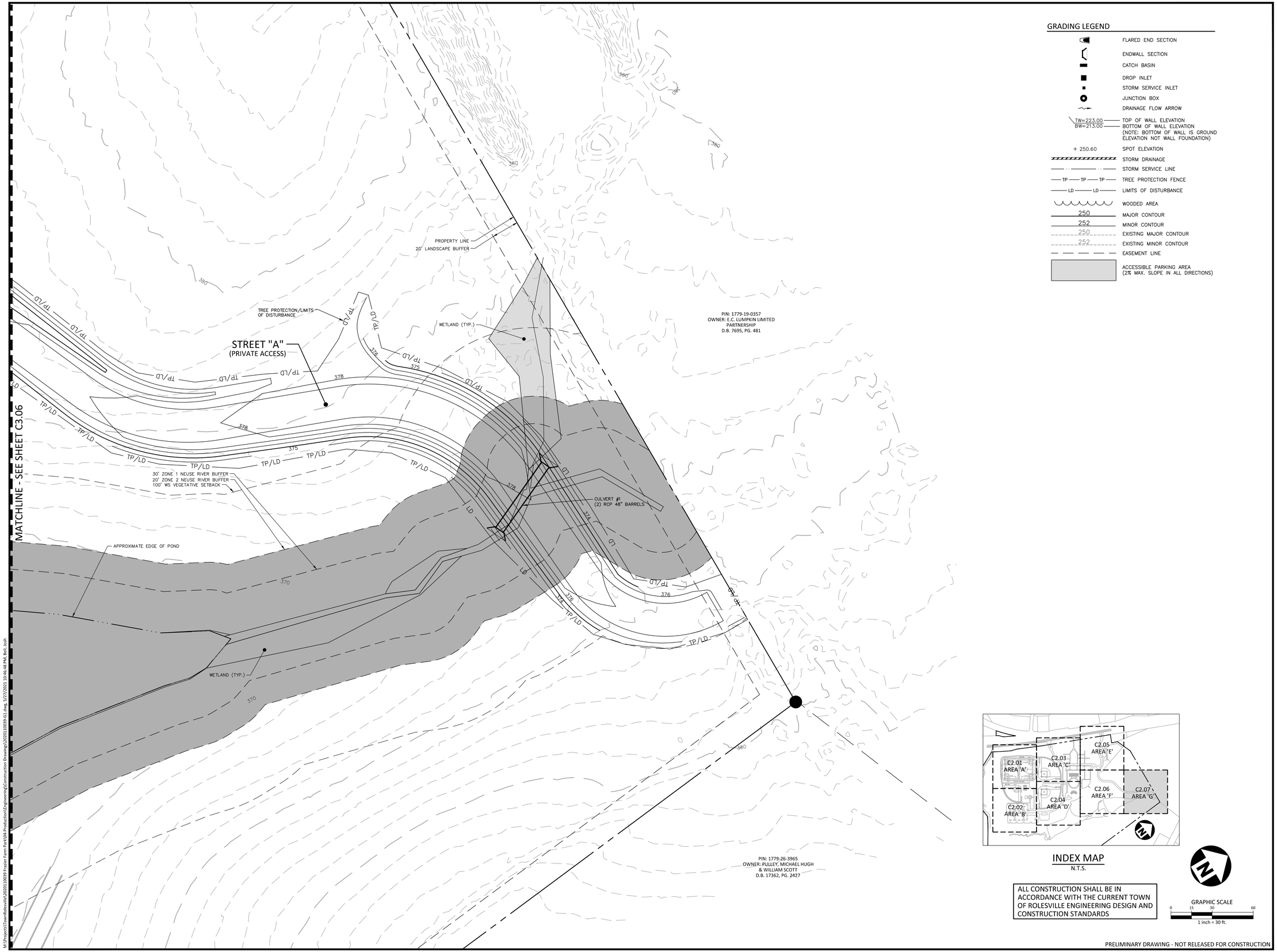

GRADING LEGEND

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 1960 SHWETA NANEKAR — NOT FOR CONSTRUCTION

REVISIONS

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PLAN INFORMATION

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DATE	05. 14. 2021

SHEET

GRADING PLAN
AREA "G"

C3.07

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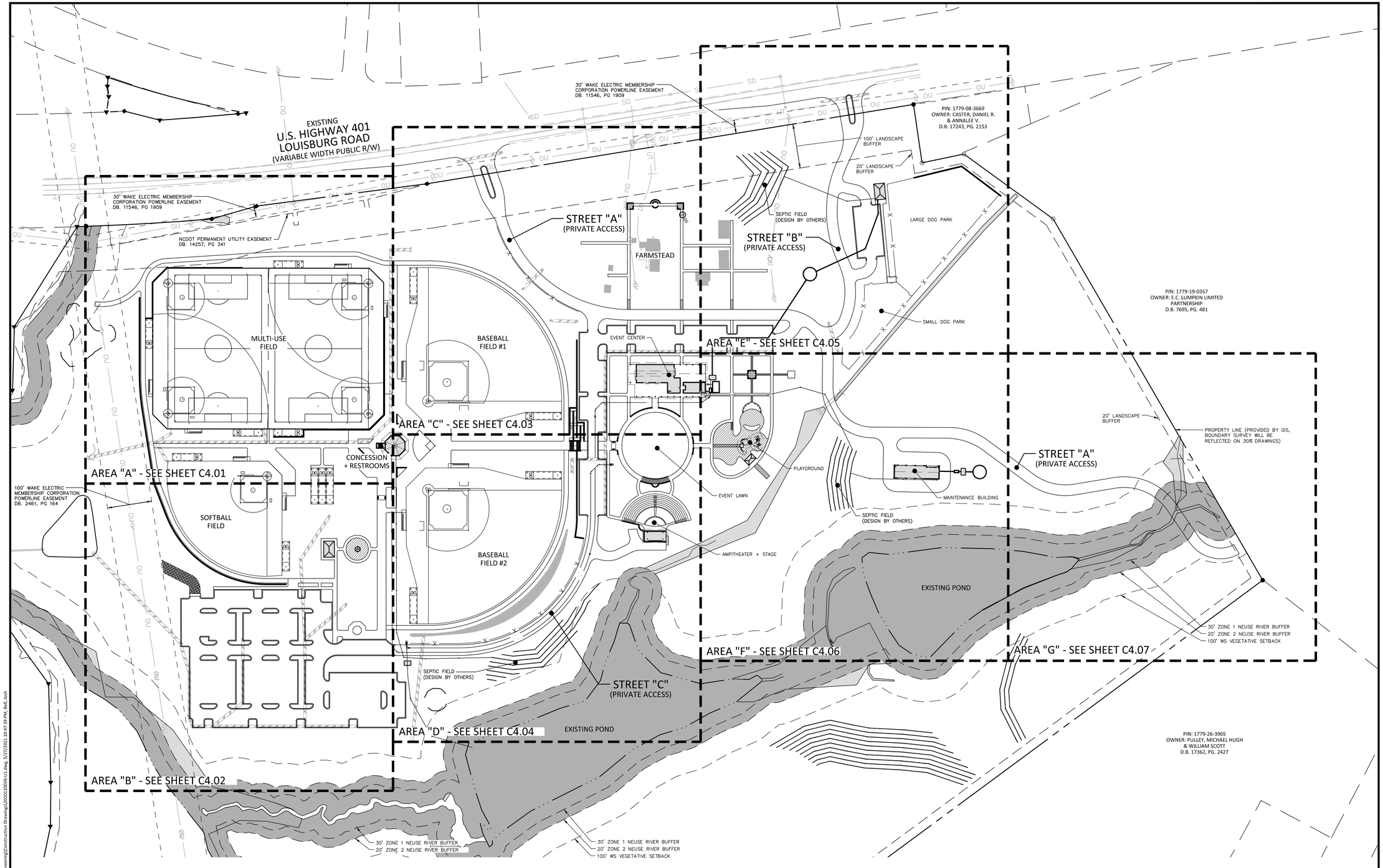

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF ROLESVILLE ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

GRAPHIC SCALE
0 50 100 200
1 inch = 100 ft.

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

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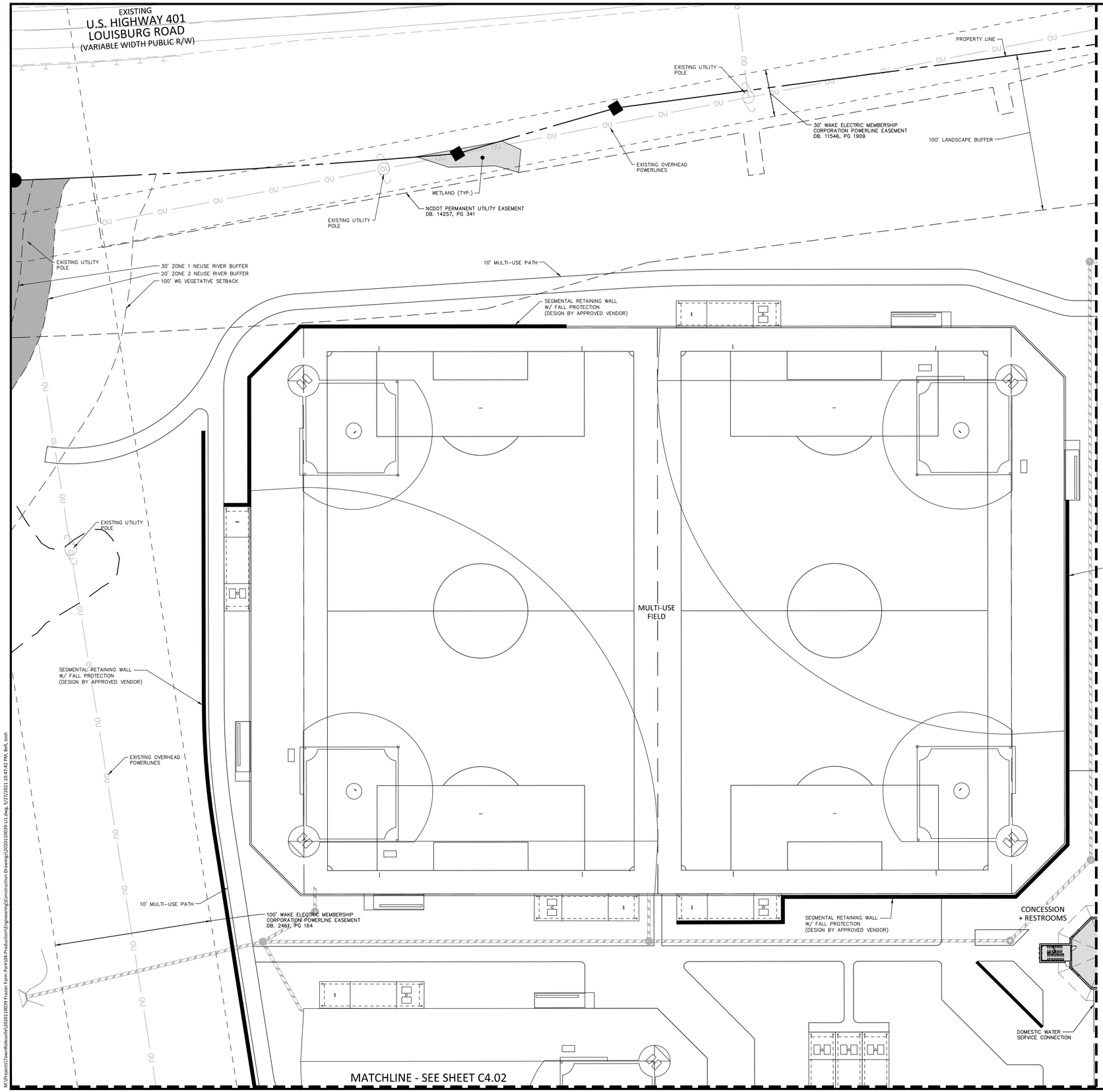
SHEET

OVERALL UTILITY PLAN

C4.00



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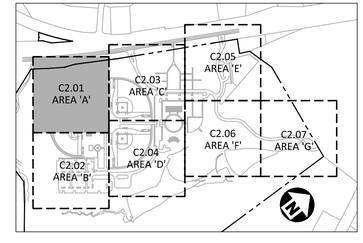
UTILITY LEGEND

- FIRE HYDRANT ASSEMBLY
- FIRE DEPARTMENT CONNECTION (FDC)
- WATER METER
- WATER VALVE
- POST INDICATOR VALVE (PIV)
- VALVE IN MANHOLE
- METER & VAULT
- BACKFLOW PREVENTER
- REDUCER
- SANITARY SEWER MANHOLE
- SEWER CLEAN-OUT
- SEWER FLOW DIRECTION ARROW
- YARD LIGHTS
- LIGHT POLE
- POWER POLE
- WATERLINE
- SANITARY SEWER
- SEWER SERVICE LINE
- OU OU OVERHEAD UTILITY
- EASEMENT LINE



INDEX MAP
N.T.S.

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF ROLESVILLE ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

GRAPHIC SCALE
0 15 30 60
1 inch = 30 ft.

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

McADAMS
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phone 919. 361. 5000
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CLIENT

NAME	TOWN OF ROLESVILLE
ADDRESS	502 SOUTHTOWN CIRCLE
ADDRESS	ROLESVILLE NC 27571
PHONE:	919.554.6582

FRAZIER FARM PARK
30% CONSTRUCTION DRAWINGS
11624 LOUISBURG ROAD
ROLESVILLE, NORTH CAROLINA

NORTH CAROLINA 1960 REGISTERED LANDSCAPE ARCHITECT SHWETA NANEKAR
NOT FOR CONSTRUCTION PURPOSES

REVISIONS

NO.	DATE

PLAN INFORMATION

PROJECT NO.	202011039
FILENAME	202011039-G1
CHECKED BY	SN
DRAWN BY	XXX
SCALE	1"=30'
DATE	05. 14. 2021

SHEET

UTILITY PLAN
AREA "A"
C4.01

MATCHLINE - SEE SHEET C4.01

SCM "B"
(SEE SHEET C9.04)

EXISTING UTILITY POLE

SOFTBALL FIELD

SEGMENTAL RETAINING WALL W/ FALL PROTECTION (DESIGN BY APPROVED VENDOR)

SHELTER

PLAYGROUND

GRAVEL ACCESS DRIVE

SANITARY SEWER SERVICE WITH CLEANOUTS

DOMESTIC WATER SERVICE

100' WAKE ELECTRIC MEMBERSHIP CORPORATION POWERLINE EASEMENT DB. 2461, PG 164

EXISTING OVERHEAD POWERLINES

MATCHLINE - SEE SHEET C4.04

STREET "C"
(PRIVATE ACCESS)

30' ZONE 1 NEUSE RIVER BUFFER
20' ZONE 2 NEUSE RIVER BUFFER
100' WS VEGETATIVE SETBACK

WETLAND (TYP.)

EXISTING UTILITY POLE

UTILITY LEGEND

- FIRE HYDRANT ASSEMBLY
- FIRE DEPARTMENT CONNECTION (FDC)
- WATER METER
- WATER VALVE
- POST INDICATOR VALVE (PIV)
- VALVE IN MANHOLE
- METER & VAULT
- BACKFLOW PREVENTER
- REDUCER
- SANITARY SEWER MANHOLE
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- LIGHT POLE
- POWER POLE
- WATERLINE
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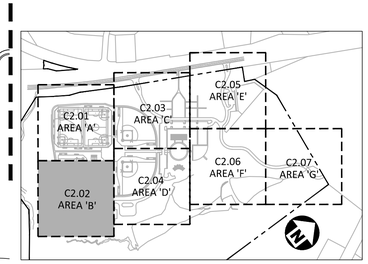
- SEWER SERVICE LINE
- OU—— OU—— OVERHEAD UTILITY
- EASEMENT LINE



INDEX MAP
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GRAPHIC SCALE
0 15 30 60
1 inch = 30 ft.

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

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ROLESVILLE, NORTH CAROLINA

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1960 SAWETA NANEKAR
PRELIMINARY NOT FOR CONSTRUCTION

REVISIONS

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PLAN INFORMATION

PROJECT NO.	202011039
FILENAME	202011039-G1
CHECKED BY	SN
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DATE	05. 14. 2021

SHEET

UTILITY PLAN
AREA "B"

C4.02

EXISTING
U.S. HIGHWAY 401
LOUISBURG ROAD
(VARIABLE WIDTH PUBLIC R/W)

30' WAKE ELECTRIC MEMBERSHIP CORPORATION POWERLINE EASEMENT DB. 11546, PG 1909

EXISTING OVERHEAD POWERLINES

EXISTING UTILITY POLE

PROPERTY LINE

EXISTING UTILITY POLE

EXISTING OVERHEAD POWERLINES

EXISTING UTILITY POLE

100' LANDSCAPE BUFFER

NCDOT PERMANENT UTILITY EASEMENT DB. 14257, PG 341

MATCHLINE - SEE SHEET C4.01

EXISTING UTILITY POLE

DG

MATCHLINE - SEE SHEET C4.05

FARMHOUSE AND SURROUNDING STRUCTURES TO REMAIN. PROTECT IN PLACE.

EXISTING OVERHEAD POWERLINES

EXISTING UTILITY POLE

10' MULTI-USE PATH

STREET "A"
(PRIVATE ACCESS)

BASEBALL FIELD #1

STREET "C"
(PRIVATE ACCESS)

10' MULTI-USE PATH

RETAINING WALL (DESIGN BY OTHERS)

DOMESTIC WATER SERVICE

EVENT CENTER

EVENT LAWN

MATCHLINE - SEE SHEET C4.04

MATCHLINE - SEE SHEET C4.06

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UTILITY LEGEND

- FIRE HYDRANT ASSEMBLY
- FIRE DEPARTMENT CONNECTION (FDC)
- WATER METER
- WATER VALVE
- POST INDICATOR VALVE
- VALVE IN MANHOLE
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- SEWER SERVICE LINE
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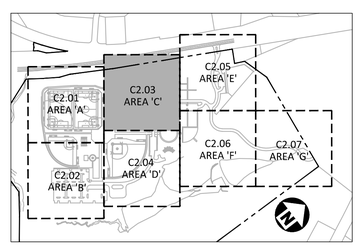
- EASEMENT LINE



INDEX MAP
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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 1960 SHWETA NANEKAR — NOT FOR CONSTRUCTION

REVISIONS

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FILENAME	202011039-G1
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DATE	05. 14. 2021

SHEET

UTILITY PLAN
AREA "C"
C4.03

MATCHLINE - SEE SHEET C4.03

MATCHLINE - SEE SHEET C4.01

MATCHLINE - SEE SHEET C4.02

MATCHLINE - SEE SHEET C4.06

CONCESSION + RESTROOMS

BASEBALL FIELD #2

EVENT LAWN

DOMESTIC WATER SERVICE

IRRIGATION STUB WITH BACKFLOW PREVENTER

SEGMENTAL RETAINING WALL W/ FALL PROTECTION (DESIGN BY APPROVED VENDOR)

10' MULTI-USE PATH

AMPHITHEATER SEATING WALLS SEE ARCHITECT'S DRAWINGS FOR DETAILS

RETAINING WALL W/ FALL PROTECTION (DESIGN BY APPROVED VENDOR)

AMPHITHEATER STAGE

STREET "C" (PRIVATE ACCESS)

WETLAND (TYP.)

IRRIGATION SERVICE

10' MULTI-USE PATH

IRRIGATION STUB WITH BACKFLOW PREVENTER

SANITARY SEWER SERVICE CONNECTION

DOMESTIC WATER SERVICE

SEPTIC FIELD (DESIGN BY OTHERS)

SANITARY SEWER SERVICE WITH CLEANOUTS

PUMP HOUSE

100' WS VEGETATIVE SETBACK
30' ZONE 1 NEUSE RIVER BUFFER
20' ZONE 2 NEUSE RIVER BUFFER

ARCHAEOLOGICAL AREA

IRRIGATION SERVICE

EXISTING POND

UTILITY LEGEND

- FIRE HYDRANT ASSEMBLY
- FIRE DEPARTMENT CONNECTION (FDC)
- WATER METER
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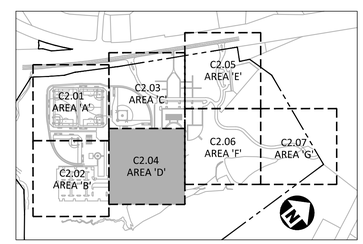

INDEX MAP
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0 15 30 60
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PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

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11624 LOUISBURG ROAD
ROLESVILLE, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 040960 SAMEER CONSTRUCTION ENGINEERING SAWETA NAMEKAR

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PROJECT NO.	202011039
FILENAME	202011039-G1
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SHEET

UTILITY PLAN
AREA "D"

C4.04

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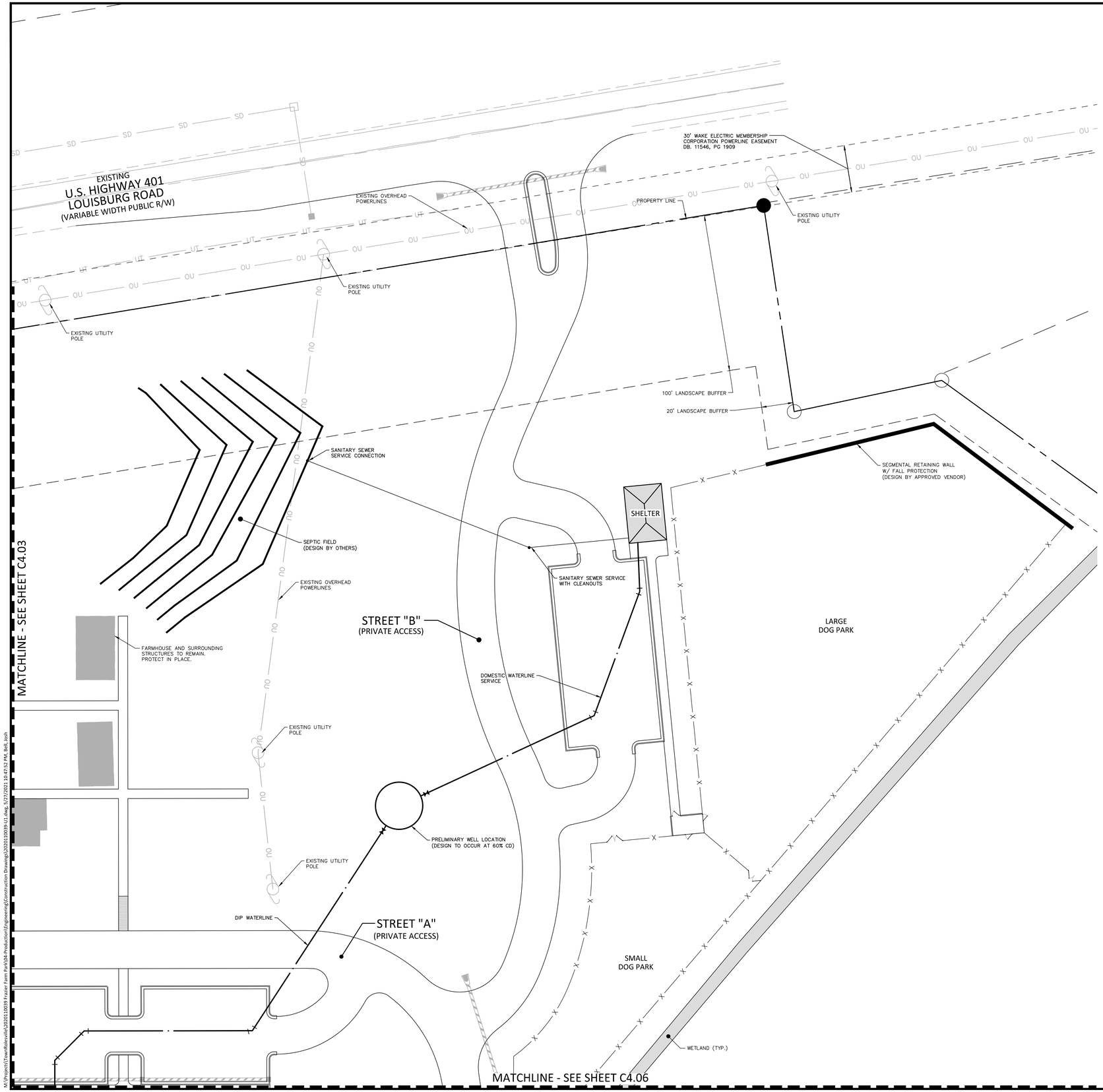

UTILITY LEGEND

- FIRE HYDRANT ASSEMBLY
- FIRE DEPARTMENT CONNECTION (FDC)
- WATER METER
- WATER VALVE
- POST INDICATOR VALVE
- VALVE IN MANHOLE
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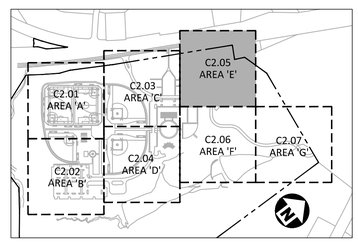
- SEWER SERVICE LINE
- OVERHEAD UTILITY
- EASEMENT LINE



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ROLESVILLE, NORTH CAROLINA

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1960 SHWETA NANEKAR NOT FOR BIDDING OR CONSTRUCTION PURPOSES

REVISIONS

NO.	DATE

PLAN INFORMATION

PROJECT NO.	202011039
FILENAME	202011039-G1
CHECKED BY	SN
DRAWN BY	XXX
SCALE	1"=30'
DATE	05. 14. 2021

SHEET

UTILITY PLAN
AREA "E"
C4.05

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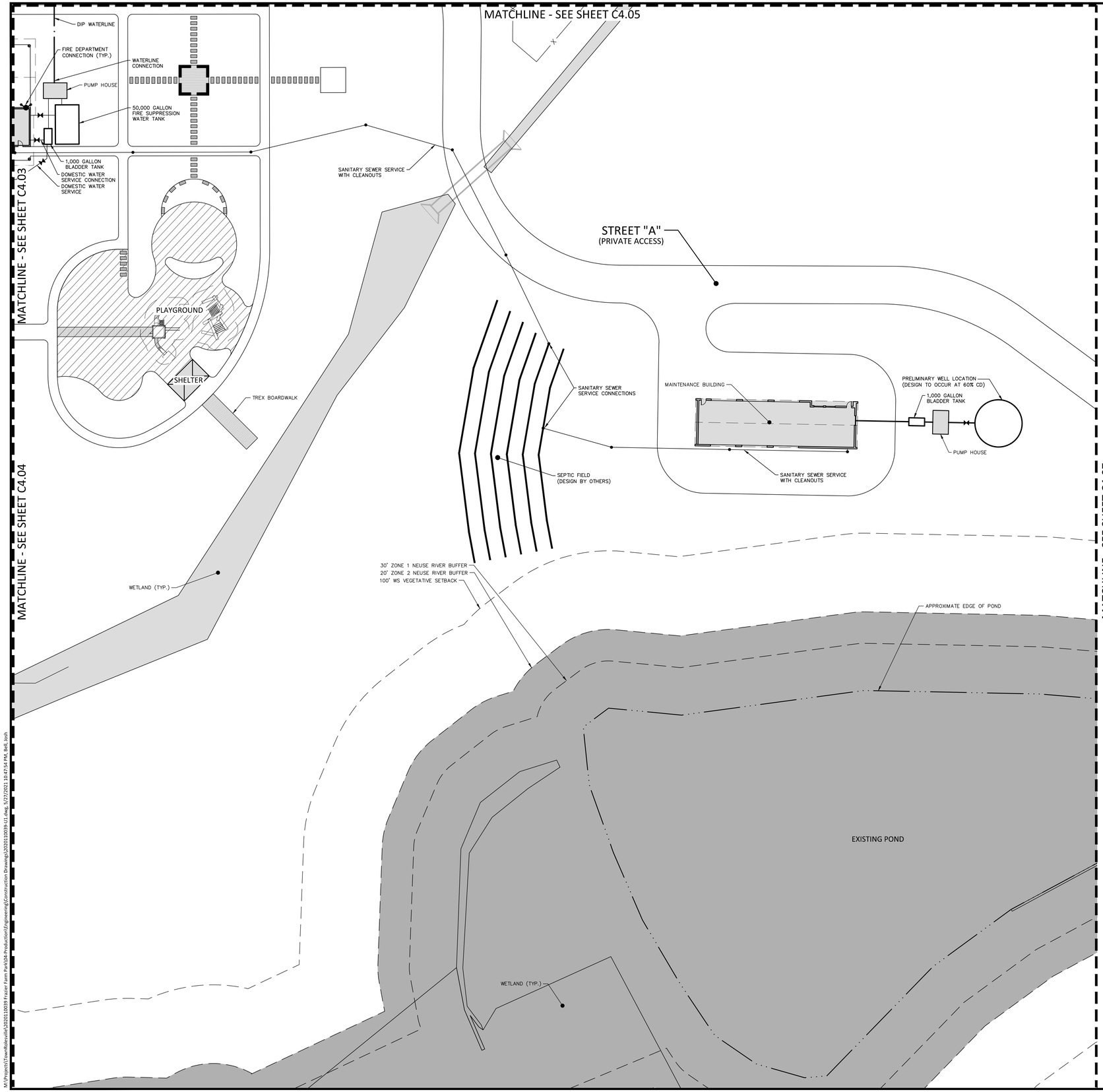

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UTILITY LEGEND

- FIRE HYDRANT ASSEMBLY
- FIRE DEPARTMENT CONNECTION (FDC)
- WATER METER
- WATER VALVE
- POST INDICATOR VALVE (PIV)
- VALVE IN MANHOLE
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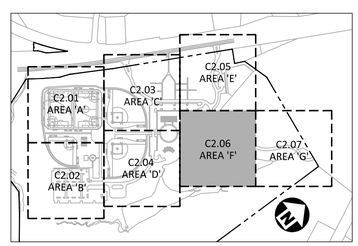

INDEX MAP
N.T.S.

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF ROLESVILLE ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

N

GRAPHIC SCALE
0 15 30 60
1 inch = 30 ft.

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

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FRAZIER FARM PARK
30% CONSTRUCTION DRAWINGS
11624 LOUISBURG ROAD
ROLESVILLE, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 049601 SAMEER NANEKAR — NOT FOR CONSTRUCTION — 1960

REVISIONS

NO.	DATE

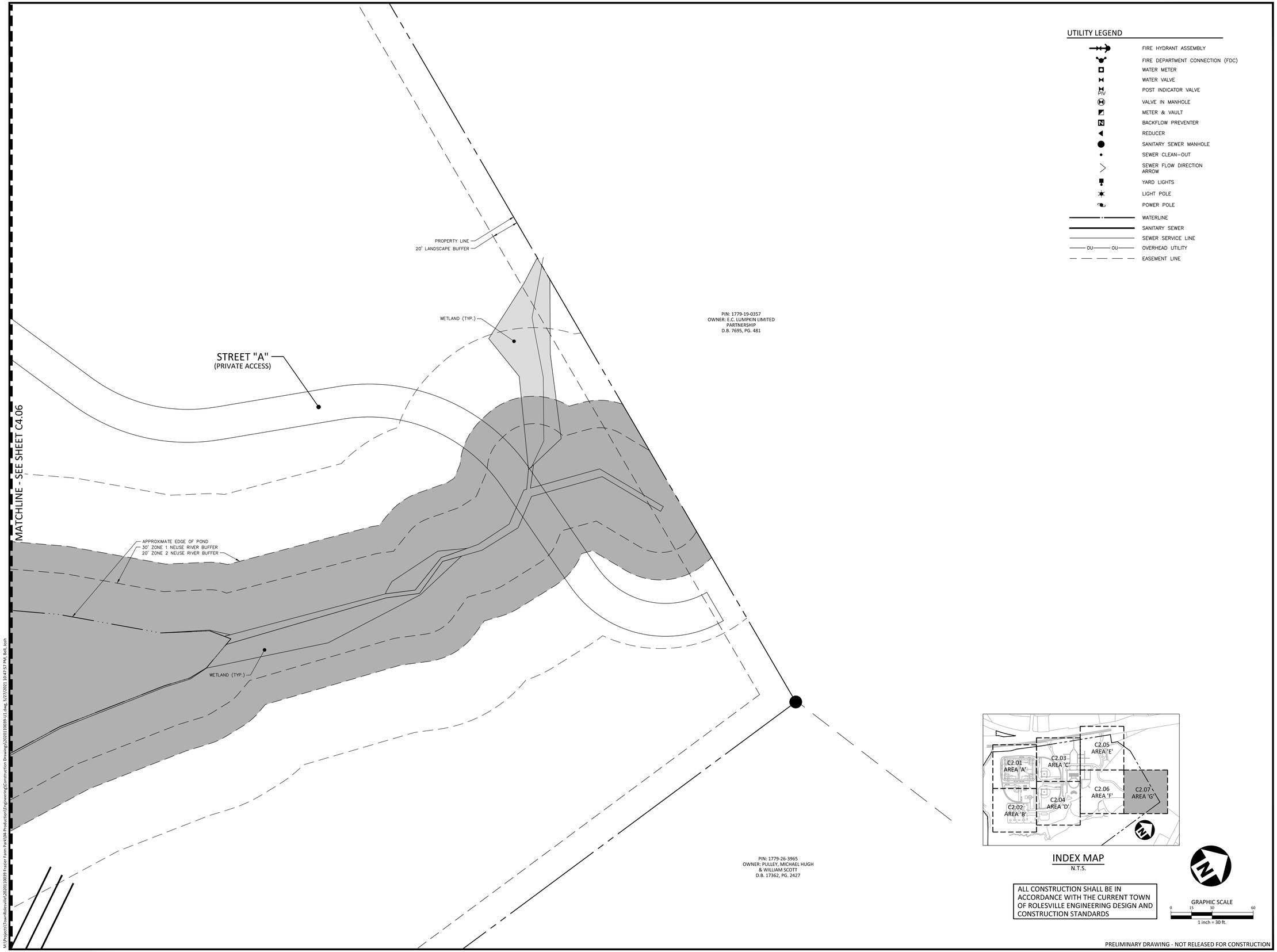
PLAN INFORMATION

PROJECT NO.	202011039
FILENAME	202011039-G1
CHECKED BY	SN
DRAWN BY	XXX
SCALE	1"=30'
DATE	05. 14. 2021

SHEET

UTILITY PLAN
AREA "F"

C4.06



UTILITY LEGEND

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SHEET

UTILITY PLAN
AREA "G"

C4.07

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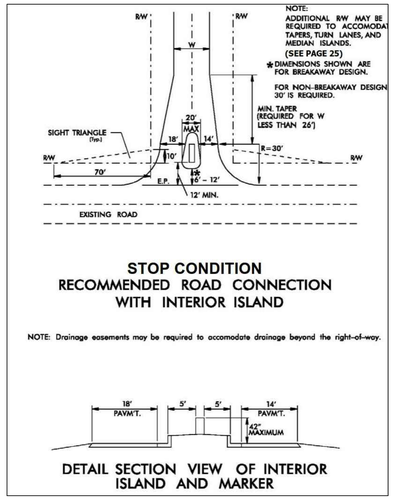
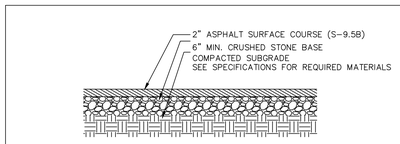


STOP CONDITION
RECOMMENDED ROAD CONNECTION
WITH INTERIOR ISLAND

NOTE: Drainage easements may be required to accomodate drainage beyond the right-of-way.

DETAIL SECTION VIEW OF INTERIOR ISLAND AND MARKER

01 NCDOT STANDARD ROAD DETAILS
SCALE: NTS

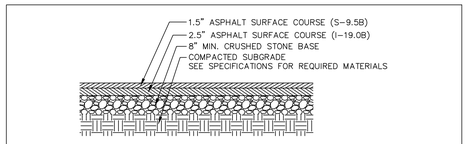


SUBGRADE COMPACTED TO A MINIMUM 98% STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D 698) REFER TO SOILS REPORT IF AVAILABLE.

NOTE:
THE PAVEMENT SECTIONS SHOWN ARE PRELIMINARY. THE CONTRACTOR SHALL VERIFY PAVEMENT DESIGN WITH A GEOTECHNICAL ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.

ON-SITE ASPHALT PAVEMENT DETAIL
N.T.S.

02 LIGHT-DUTY ASPHALT
SCALE: NTS



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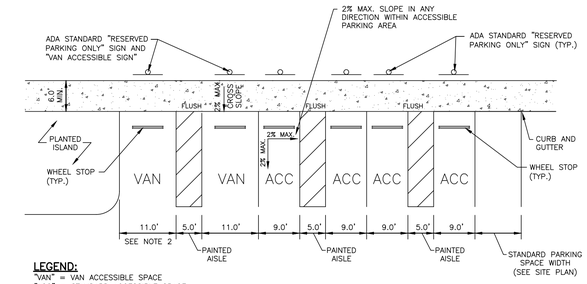
ON-SITE ASPHALT HEAVY DUTY TRAFFIC PAVEMENT DETAIL
N.T.S.

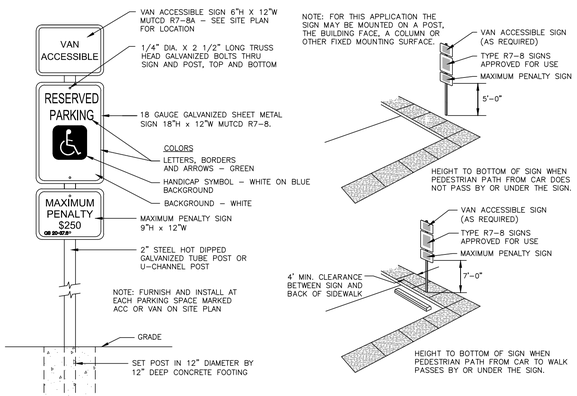
03 HEAVY-DUTY ASPHALT
SCALE: NTS



LEGEND:
"VAN" = VAN ACCESSIBLE SPACE
"ACC" = STANDARD ACCESSIBLE SPACE

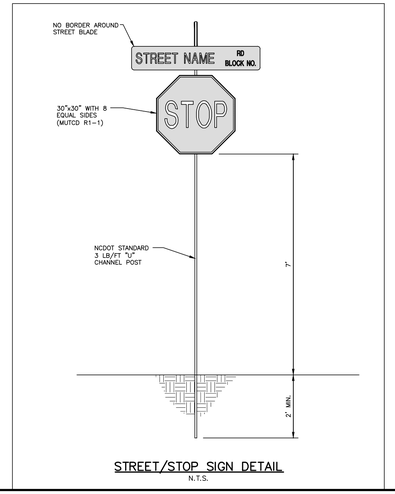
NOTES:
1. ACCESSIBLE PARKING SPACE WIDTH TO BE MEASURED FROM THE EDGE OF PAVEMENT TO THE ACCESSIBLE SPACE.
2. ALL ACCESSIBLE SPACES SHALL BE IDENTIFIED BY ABOVE-GROUND SIGNS ONLY.
3. STRIPING IS WHITE ON DARK PAVEMENT AND BLACK ON LIGHT PAVEMENT.
4. VAN ACCESSIBLE SPACES TO BE 11.0' MINIMUM WIDTH.

04 STOP SIGN
SCALE: NTS



NOTE: Drainage easements may be required to accomodate drainage beyond the right-of-way.

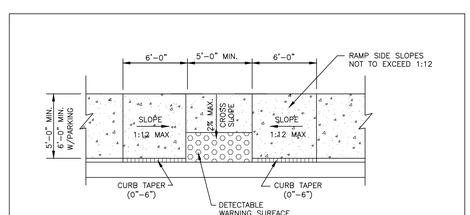
05 STOP SIGN
SCALE: NTS



STREET/STOP SIGN DETAIL
N.T.S.

06 ACCESSIBLE PARKING STRIPING DETAIL
SCALE: N.T.S.

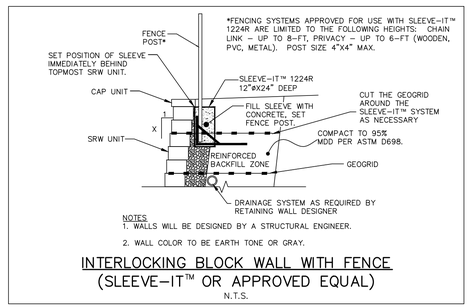
07 ACCESSIBLE PARKING SPACE SIGN
SCALE: N.T.S.



NOTE: RAMP LANDING AREA SHALL RECEIVE A 24" DETECTABLE WARNING SURFACE OF COLOR TO CONTRAST WITH ADJOINING SURFACES PER ICC A117.1-2009 SECT. 705 REQUIREMENTS.

ACCESSIBLE SIDEWALK RAMP
N.T.S.

08 ACCESSIBLE PARKING SPACE SIGN
SCALE: N.T.S.



INTERLOCKING BLOCK WALL WITH FENCE
(SLEEVE-IT™ OR APPROVED EQUAL)
N.T.S.

NOTES:
1. SEGMENTAL BLOCK WALL MANUFACTURER: ALLAN BLOCK OR APPROVED EQUAL. COLOR AND BLOCK TEXTURE TO BE CHOSEN FROM MFR'S FULL RANGE AND APPROVED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
2. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR APPROVAL PRIOR TO INSTALLATION.
3. INSTALL PER MFR'S REQUIREMENTS AND SPECIFICATIONS. REFER TO DESIGN DETAILS: ALLAN BLOCK TYPICAL REINFORCED WALL APPLICATION FOR ALL OTHER NOTES, DETAILS AND SPECIFICATIONS.
4. CONTRACTOR TO PROVIDE MOCK-UP OF WALL FOR APPROVAL BY OWNER OR OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION. MOCK-UP MAY BE INCLUDED AS PART OF THE FINAL CONSTRUCTION IF APPROVED BY OWNER'S OR OWNER'S REPRESENTATIVE.
5. REFER TO GRADING PLANS FOR WALL ELEVATIONS AND ADJACENT FINISHED GRADE ELEVATIONS.
6. 42" PEDESTRIAN GUARDRAIL REQUIRED WHERE CHANGE IN ELEVATION EXCEEDS 30" WITHIN 36" OF A WALKING SURFACE. MOUNT PER MANURFACTURER SPECIFICATIONS.

09 ACCESSIBLE PARKING SPACE SIGN
SCALE: N.T.S.

McADAMS
The John R. McAdams Company, Inc.
2905 Meridian Parkway
Durham, NC 27713

phone 919. 361. 5000
fax 919. 361. 2269
license number: C-0293

www.mcadamsco.com

CLIENT

NAME	TOWN OF ROLESVILLE
ADDRESS	502 SOUTHTOWN CIRCLE
ADDRESS	ROLESVILLE NC 27571
PHONE:	919.554.6582

FRAZIER FARM PARK
30% CONSTRUCTION DRAWINGS
11624 LOUISBURG ROAD
ROLESVILLE, NORTH CAROLINA

NORTH CAROLINA 1960 REGISTERED LANDSCAPE ARCHITECT SHWETA NANEKAR NOT FOR CONSTRUCTION

REVISIONS

NO.	DATE

PLAN INFORMATION

PROJECT NO.	202011039
FILENAME	202011039-D1
CHECKED BY	SN
DRAWN BY	XXX
SCALE	N/A
DATE	05. 14. 2021

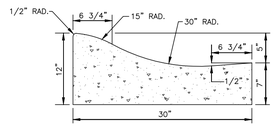
SHEET

SITE DETAILS

C8.00

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

M:\Projects\TownRolesville\202011039 Frazier Farm Park\04-Production\Engineering\Construction Drawings\202011039-D1.dwg, 5/27/2021 10:28:38 PM, BeN, Josh



NOTES:

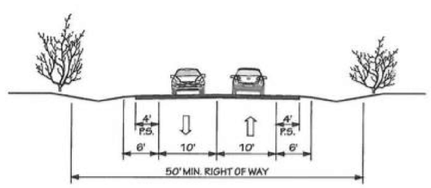
1. 10' MAXIMUM BETWEEN DUMMY JOINTS. 15' MAXIMUM BETWEEN DUMMY JOINTS ON MACHINE POURS.
2. 1/2" EXPANSION JOINT EVERY 50'.
3. 3000 PSI CONCRETE MINIMUM, 4" SLUMP MAXIMUM.
4. LIQUID MEMBRANE CURING COMPOUND SHALL MEET THE REQUIREMENTS OF SECTION 1026-2 OF NCDOT STANDARDS AND SPECIFICATIONS FOR ROADS AND STRUCTURES.
5. ALL CONSTRUCTION JOINTS SHALL BE FILLED WITH FILLER AND SEALER IN ACCORDANCE WITH NCDOT ROADWAY STANDARD DETAIL 846.01. THE JOINT MATERIAL SHALL CONFORM TO SECTION 1028-2 OF THE NCDOT STANDARDS AND SPECIFICATIONS FOR ROADS AND STRUCTURES.
6. REFER TO NCDOT DETAIL 846.01 FOR CURB AND GUTTER SUPERELEVATION RATES.

30" ROLLED CURB AND GUTTER

N.T.S.

10 30" ROLLED CURB AND GUTTER

SCALE: NTS

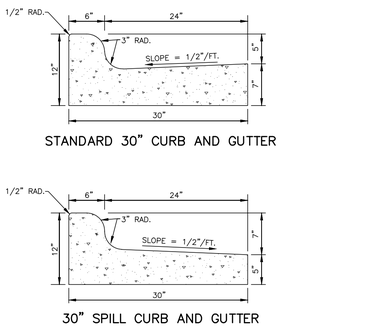


2 LANE UNDIVIDED WITH PAVED SHOULDERS

POSTED SPEED 25 - 35 MPH

11 TYPICAL ROADWAY SECTION

SCALE: NTS



STANDARD 30" CURB AND GUTTER

30" SPILL CURB AND GUTTER

NOTES:

1. 10' MAXIMUM BETWEEN DUMMY JOINTS. 15' MAXIMUM BETWEEN DUMMY JOINTS ON MACHINE POURS.
2. 1/2" EXPANSION JOINT EVERY 50'.
3. 3000 PSI CONCRETE MINIMUM, 4" SLUMP MAXIMUM.
4. LIQUID MEMBRANE CURING COMPOUND SHALL MEET THE REQUIREMENTS OF SECTION 1026-2 OF NCDOT STANDARDS AND SPECIFICATIONS FOR ROADS AND STRUCTURES.
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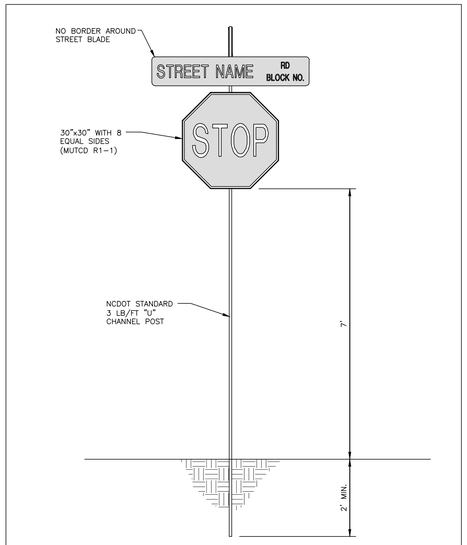
6. REFER TO NCDOT DETAIL 846.01 FOR CURB AND GUTTER SUPERELEVATION RATES.

30" CURB AND GUTTER

N.T.S.

13 STOP SIGN

SCALE: NTS



STREET/STOP SIGN DETAIL

N.T.S.

14 STREET STOP SIGN DETAIL

SCALE: NTS

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

McAdams

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FRAZIER FARM PARK

30% CONSTRUCTION DRAWINGS

11624 LOUISBURG ROAD

ROLESVILLE, NORTH CAROLINA

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1960 SAWETA NAMEKAR

NOT FOR CONSTRUCTION PRELIMINARY

REVISIONS

NO.	DATE

PLAN INFORMATION

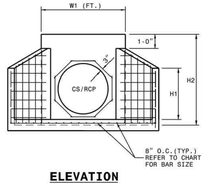
PROJECT NO.	202011039
FILENAME	202011039-D1
CHECKED BY	SN
DRAWN BY	XXX
SCALE	N/A
DATE	05. 14. 2021

SHEET

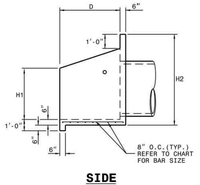
SITE DETAILS

C8.01

M:\Projects\Town\Rolesville\202011039 Frazier Farm Park\04-Production\Engineering\Construction Drawings\202011039-D1.dwg, 5/27/2021 10:41:15 PM, Bell, Josh



ELEVATION

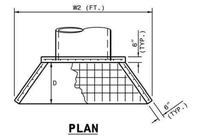


SIDE

NOTES:

* THIS PRECAST ENDWALL MAY BE USED FOR THE FOLLOWING STANDARDS: 838.01, 838.11, 838.21, 838.27, 838.33, 838.39, 838.51, 838.57, 838.63 AND 838.69.
* INSTALL PRECAST ENDWALLS WITH WINGS AND PAV FOR IN ACCORDANCE WITH SPECIFICATION SECTION 838.
* USE 4000 PSI CONCRETE.
* PROVIDE ALL REINFORCING STEEL WHICH MEETS ASTM A615 FOR GRADE 60 AND WELDED WIRE FABRIC CONFORMING TO ASTM A185 WITH 2" MIN. CLEARANCE.
* PLACE LIFT HOLES OR PINS IN ACCORDANCE WITH OSHA STANDARD 1926.704.
* PIPE TO BE GROUTED INTO HEADWALL AT JOB SITE BY CONTRACTOR
* ALL ELEMENTS PRECAST TO MEET ASTM C913.
* WELDED WIRE FABRIC MAY BE SUBSTITUTED FOR REBAR AS LONG AS THE SAME AREA OF STEEL IS PROVIDED.
* CHAMFER ALL CORNERS 1" OR HAVE A RADIUS OF 1".

NOTE: THE MINIMUM BAR SIZE SHALL BE #5 BARS AT 8" CTS.THE CONTRACTOR WILL HAVE THE OPTION TO INCREASE THIS BAR SIZE AS NEEDED.



PLAN

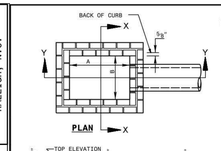
ENDWALL DIMENSIONS

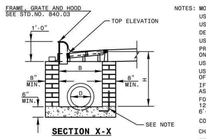
FT.	MINIMUM	MIN./MAX.	MIN./MAX.	MIN./MAX.	MIN./MAX.	MIN./MAX.
PIPE DIA.	BAR SIZE	H1(FT.)	H2(FT.)	D (FT.)	W1	W2
1.0	#5 @ 8"	1.25/2.00	2.00/3.75	1.25/1.75	3.00/3.75	5.50/6.00
1.25	#5 @ 8"	1.25/2.00	3.00/3.75	1.25/2.00	3.50/3.75	6.50/6.75
1.50	#5 @ 8"	1.25/2.00	3.00/4.25	1.50/2.50	3.50/3.75	6.50/6.75
2.0	#5 @ 8"	1.50/2.50	4.00/4.75	1.75/2.50	4.00/4.25	7.50/8.25
2.5	#5 @ 8"	2.50/3.50	4.00/6.00	2.00/3.00	4.50/5.50	10.00/11.50
3.0	#5 @ 8"	3.00/3.50	5.00/6.00	2.75/3.50	5.25/5.75	11.50/11.75
3.5	#5 @ 8"	3.25/4.50	6.00/6.75	3.25/3.50	6.00/6.75	12.00/13.25
4.0	#5 @ 8"	3.50/4.50	6.50/7.00	3.25/3.50	6.50/6.75	13.00/13.25
4.5	#5 @ 8"	4.00/5.00	6.50/8.50	3.25/4.00	7.00/9.25	13.50/15.75
5.0	#5 @ 8"	4.50/5.00	7.00/8.50	3.25/4.00	7.25/9.25	13.75/15.75
5.5	#5 @ 8"	4.50/5.00	7.50/8.50	3.25/4.00	7.25/9.25	14.00/15.75
6.0	#5 @ 8"	4.50/5.00	7.50/8.50	3.25/4.00	7.75/9.25	14.75/16.75

1-18 STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

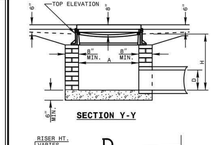
ROADWAY STANDARD DRAWING FOR **PRECAST CONCRETE ENDWALL** FOR SINGLE 12" THRU 72" PIPE - 90° SKEW

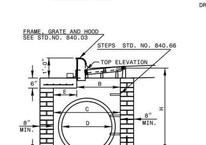
SHEET 1 OF 1 **838.80**

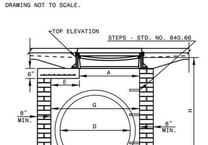


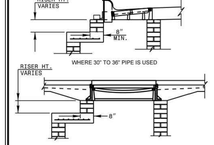


NOTES: MORTAR JOINTS ½" +/- ⅛" THICK.
USE CLASS "B" CONCRETE THROUGHOUT.
USE FORMS FOR CONSTRUCTION OF THE BOTTOM SLAB.
DEDUCT FOR PIPE(S) FROM TOTAL CU. YDS. OF BRICK MASONRY.
USE #4 BAR DOWELS AT 12" CENTERS FOR ALL PIPE SIZES.
PROVIDE ALL CATCH BASINS OVER 3'-6" IN DEPTH WITH STEPS 12" ON CENTER. USE STEPS WHICH COMPLY WITH STD. DRAWING 840.66.
USE TYPE "E", "F" AND "G" GRATES UNLESS OTHERWISE INDICATED.
USE BRICK OR CONCRETE BLOCK WHICH COMPLIES WITH THE REQUIREMENTS OF SECTION 840 OF THE STANDARD SPECIFICATIONS.
IF REINFORCED CONCRETE PIPE IS SET IN BOTTOM SLAB OF BOX, ADD TO SLAB AS SHOWN ON STD. NO. 840.00.
FOR 8'-0" IN HEIGHT OR LESS, USE 8" WALL. OVER 8'-0" IN HEIGHT, USE 12" WALL TO 6'-0" FROM TOP OF WALL, AND 8" WALL FOR THE REMAINING 6'-0". QUANTITIES TO BE ADJUSTED ACCORDINGLY.
CONSTRUCT WITH PIPE CROWNS MATCHING.
CHAMFER ALL EXPOSED CORNERS 1".
DRAWING NOT TO SCALE.

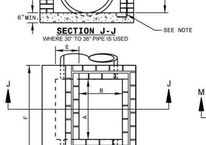


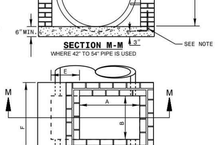






DETAIL SHOWING METHOD OF RISER CONSTRUCTION

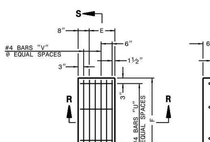


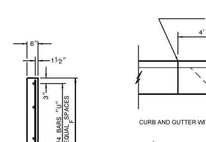


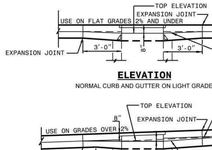
1-18 STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

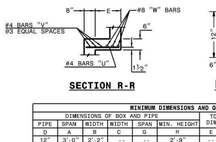
ROADWAY STANDARD DRAWING FOR **BRICK CATCH BASIN** 12" THRU 54" PIPE

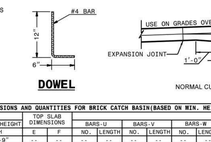
SHEET 1 OF 2 **840.01**











MINIMUM DIMENSIONS AND QUANTITIES FOR BRICK CATCH BASIN(BASED ON MIN. HEIGHT, H, WITH NO RISER)*

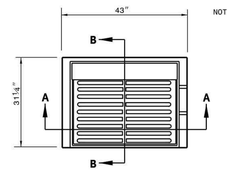
DIMENSIONS OF BOX AND PIPE					TOP SLAB DIMENSIONS		BARS-U		BARS-V		BARS-W		TOTAL LBS.	CU.YDS. CONC. IN BOX		BRICK MASONRY		DEDUCTIONS ONE PIPE	
PIPE	SPAN	WIDTH	SPAN	WIN. HEIGHT	E	F	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH		TOP SLAB	BOTTOM SLAB	TOTAL CONC.	BRICK MSNRY IN WALLS	BRICK MSNRY IN CONCRETE	C.M.	R.C.
D	A	B	C	Q	n															
12"	3'-0"	2'-2"	--	--	2'-9"	--	--	--	--	--	--	--	--	--	0.281	0.281	0.883	1.164	0.020	0.042
15"	3'-0"	2'-2"			3'-0"										0.281	0.281	0.963	1.244	0.031	0.047
18"	3'-0"	2'-2"			3'-3"										0.281	0.281	1.043	1.324	0.044	0.065
24"	3'-0"	2'-2"			3'-9"										0.281	0.281	1.204	1.485	0.078	0.121
30"	3'-0"	2'-2"	3'-4"		4'-3"	1'-2"	4'	1'-6"	3	4'-1"	3	4'-1"	45	0.147	0.374	0.521	1.606	2.217	0.122	0.184
36"	3'-0"	2'-2"	3'-10"		4'-9"	1'-8"	4'	2'-0"	4	4'-1"	3	4'-1"	49	0.187	0.415	0.602	1.914	2.516	0.176	0.261
42"	3'-0"	2'-2"	4'-5"		5'-3"	1'-5"	3'	3'-6"	4	1'-9"	3	3'-3"	38	0.135	0.373	0.508	2.132	2.640	0.240	0.373
48"	3'-0"	2'-3"	5'-0"		5'-9"	2'-0"	3'-6"	4	2'-6"	4	3'-3"	3	3'-3"	41	0.173	0.410	0.583	2.415	2.998	0.313	0.477
54"	3'-0"	2'-2"	5'-7"		6'-3"	2'-7"	3'-6"	4	3'-0"	6	3'-3"	3	3'-3"	47	0.211	0.448	0.659	2.606	3.465	0.396	0.595

* RISER HAS .321 CUBIC YARDS OF BRICK MASONRY PER FOOT HEIGHT

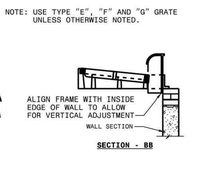
1-18 STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

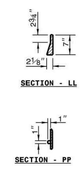
ROADWAY STANDARD DRAWING FOR **BRICK CATCH BASIN** 12" THRU 54" PIPE

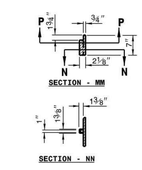
SHEET 2 OF 2 **840.01**

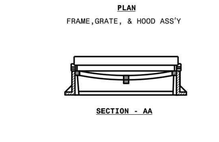


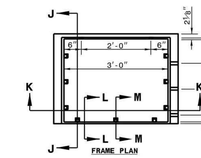
NOTE: USE TYPE "E", "F" AND "G" GRATE UNLESS OTHERWISE NOTED.

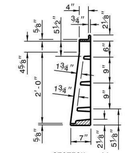


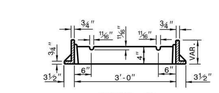


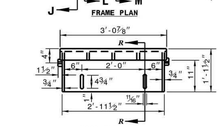


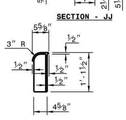








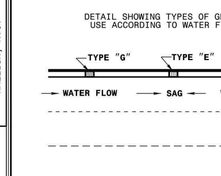


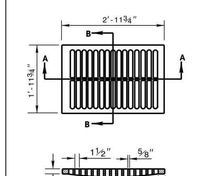


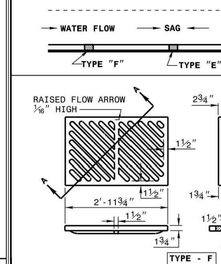
1-18 STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR **FRAME, GRATES, AND HOOD** FOR USE ON STANDARD CATCH BASIN

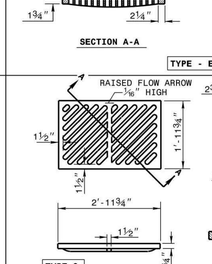
SHEET 1 OF 2 **840.03**







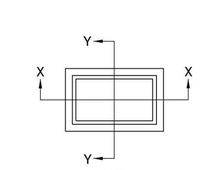
TYPE - E

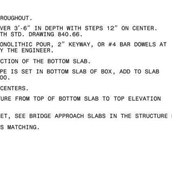


1-18 STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR **FRAME, GRATES, AND HOOD** FOR USE ON STANDARD CATCH BASIN

SHEET 2 OF 2 **840.03**





GENERAL NOTES:
USE CLASS "B" CONCRETE THROUGHOUT.
PROVIDE ALL DROP INLETS OVER 3'-6" IN DEPTH WITH STEPS 12" ON CENTER. USE STEPS WHICH COMPLY WITH STD. DRAWING 840.66.
OPTIONAL CONSTRUCTION - MONOLITHIC POUR, 2" KEYWAY, OR #4 BAR DOWELS AT 12" CENTERS AS DIRECTED BY THE ENGINEER.
USE FORMS FOR THE CONSTRUCTION OF THE BOTTOM SLAB.
IF REINFORCED CONCRETE PIPE IS SET IN BOTTOM SLAB OF BOX, ADD TO SLAB AS SHOWN ON STD. NO. 840.00.
#4 BAR DOWELS "B" AT 12" CENTERS.
MAX. DEPTH OF THIS STRUCTURE FROM TOP OF BOTTOM SLAB TO TOP ELEVATION IS 12 FEET.
FOR LOCATIONS OF DROP INLET, SEE BRIDGE APPROACH SLABS IN THE STRUCTURE PLANS.
CONSTRUCT WITH PIPE CROWNS MATCHING.
DRAWING NOT TO SCALE.

MINIMUM DIMENSIONS AND QUANTITIES FOR CONCRETE DROP INLET

PIPE	SPAN	WIDTH	HEIGHT	HEIGHT	CUBIC YARDS OF CONCRETE IN BOX				DEDUCTIONS FOR ONE PIPE	
D	A	B	H1	H2	BOTTOM SLAB	H PER FT. HT.	H MIN. TOTAL	TOTAL	C.S.	R.C.
12"	3'-8"	2'-0"	2'-6"	1'-6"	0.259	0.247	0.597	0.856	0.020	0.032
15"	3'-8"	2'-0"	2'-9"	1'-9"	0.259	0.247	0.659	0.918	0.023	0.036
18"	3'-8"	2'-0"	3'-0"	2'-0"	0.259	0.247	0.720	0.979	0.033	0.049
24"	3'-8"	2'-0"	3'-6"	2'-6"	0.259	0.247	0.865	1.124	0.059	0.085

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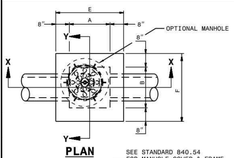
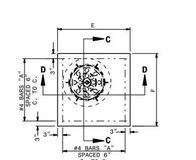
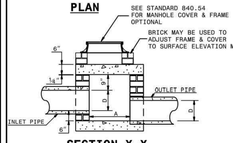
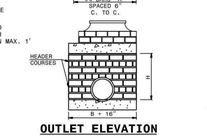
ROADWAY STANDARD DRAWING FOR **CONCRETE BRIDGE APPROACH DROP INLET** 12" THRU 24" PIPE

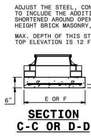
SHEET 1 OF 1 **840.13**

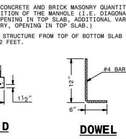


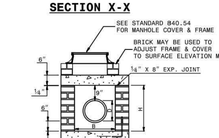












DIMENSIONS AND QUANTITIES FOR BRICK JUNCTION BOXES

DIMENSIONS OF BOX AND PIPE				REINFORCEMENT BARS		TOP SLAB DIMENSIONS		CUBIC YARDS			DEDUCTIONS FOR ONE PIPE
PIPE	SPAN	WIDTH	HEIGHT	NO.	LENGTH	E	F	CONC. TOP & BOTTOM CU. YD.	BRICK MASONRY MIN. HEIGHT CU. YD	WALL PER FT. HT. CU. YD.	C.S. R.C.
D	A	B	H								
12"	2'-0"	2'-0"	2'-3"	12	3'-1"	3'-4"	3'-4"	0.412	0.591	0.263	0.020 0.032
15"	2'-0"	2'-0"	2'-6"	12	3'-1"	3'-4"	3'-4"	0.412	0.657	0.263	0.031 0.047
18"	2'-4"	2'-4"	2'-9"	14	3'-5"	3'-8"	3'-8"	0.498	0.814	0.296	0.044 0.065
24"	3'-0"	3'-0"	3'-3"	16	4'-1"	4'-4"	4'-4"	0.695	1.176	0.362	0.078 0.113
30"	3'-4"	3'-4"	3'-9"	16	4'-5"	4'-8"	4'-8"	0.807	1.481	0.395	0.122 0.170
36"	4'-0"	4'-0"	4'-3"	20	5'-1"	5'-4"	5'-4"	1.053	1.959	0.461	0.176 0.238
42"	4'-8"	4'-8"	4'-9"	22	5'-9"	6'-0"	6'-0"	1.333	2.503	0.527	0.240 0.323
48"	5'-4"	5'-4"	5'-3"	26	6'-5"	6'-8"	6'-8"	1.646	2.940	0.560	0.313 0.422
54"	5'-10"	5'-10"	5'-9"	28	6'-11"	7'-2"	7'-2"	1.902	3.502	0.609	0.396 0.535
60"	6'-6"	6'-6"	6'-3"	30	7'-7"	7'-10"	7'-10"	2.272	4.113	0.658	0.489 0.660
66"	7'-1"	7'-1"	6'-9"	32	8'-2"	8'-5"	8'-5"	2.624	4.778	0.708	0.591 0.798

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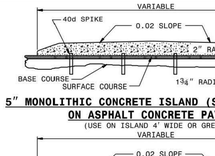
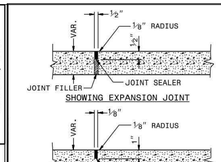
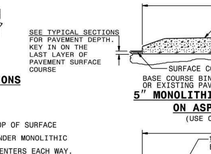
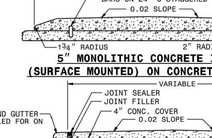
ROADWAY STANDARD DRAWING FOR **BRICK JUNCTION BOX** (WITH OPTIONAL MANHOLE) 12" THRU 66" PIPE

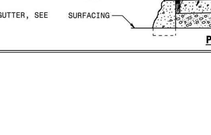
SHEET 1 OF 1 **840.32**











NOTE:
WHEN MONOLITHIC CONCRETE ISLAND IS ON TOP OF SURFACE COURSE, DRIVE 40d SPIKES INTO SURFACE UNDER MONOLITHIC CONCRETE ISLAND. STAGGER SPIKES ON 2' CENTERS EACH WAY.

IN THE CONCRETE PAVEMENT (ISLAND) AND CONCRETE ISLAND (MONOLITHIC) PLACE ½" EXPANSION JOINTS AT 30' INTERVALS AND GROOVED JOINTS 1" DEEP AT 10' INTERVALS BETWEEN EXPANSION JOINTS.

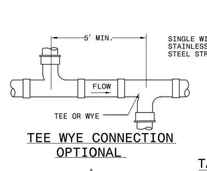
LINE UP THE JOINTS IN THE CONCRETE PAVEMENT (ISLAND) WITH THE JOINTS IN THE CURB OR CURB AND GUTTER. FILL AND SEAL THE TOP ½" OF THE EXPANSION JOINTS AND THE ENTIRE DEPTH OF GROOVED JOINTS WITH JOINT SEALER.

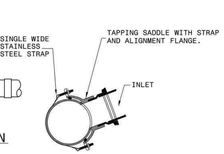
FOR JOINTS IN THE CURB AND/OR CURB AND GUTTER, SEE STANDARD NO. 846.01

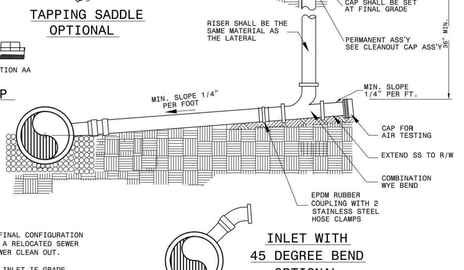
1-18 STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR **CONCRETE ISLANDS**

SHEET 1 OF 1 **852.01**







NOTES:

1. THIS DETAIL SHOWS THE TYPICAL FINAL CONFIGURATION OF A PROPOSED SEWER CLEAN OUT, A RELOCATED SEWER CLEAN OUT, OR A RECONNECTED SEWER CLEAN OUT.
2. USE 45 DEGREE VERTICAL BEND AT INLET IF GRADE ALLOWS.

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ROADWAY STANDARD DRAWING FOR **SEWER CLEAN OUT**

SHEET 1 OF 1 **1520.01**

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FRAZIER FARM PARK
30% CONSTRUCTION DRAWINGS
11624 LOUISBURG ROAD
ROLESVILLE, NORTH CAROLINA

REVISIONS

NO.	DATE

PLAN INFORMATION

PROJECT NO.	202011039
FILENAME	202011039-D1
CHECKED BY	SN
DRAWN BY	JB
SCALE	N/A
DATE	05. 14. 2021

SHEET

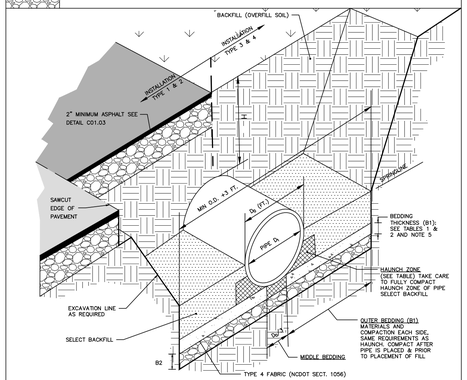
STORM DRAINAGE & UTILITY DETAILS

C8.02

M:\Projects\TownRolesville\202011039 Frazier Farm Park\04 Production\Engineering\Construction Drawings\202011039-D1.dwg, 5/27/2021 10:29:02 PM, BeN, Josh

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

H=	THE FILL HEIGHT MEASURED VERTICALLY AT ANY POINT ALONG THE PIPE FROM THE TOP OF THE EMBANKMENT AT THE POINT. DO NOT OPERATE HEAVY EQUIPMENT OVER ANY PIPE CULVERT UNTIL THE PIPE HAS BEEN PROPERLY BACKFILLED AND COVERED WITH AT LEAST 3 FEET OF APPROVED MATERIAL.
	UNDISTURBED EARTH MATERIAL
	BEDDING (MIDDLE AND OUTER): LOOSELY PLACED SELECT BACKFILL MATERIAL MEETING NCDOT CLASS I, TYPE 1 (WASHED OR UNWASHED CRUSHED STONE SCREENINGS) OR CLASS III, TYPE 1 (NCDOT 2S OR 2MS FINE AGGREGATE). LEAVE SECTION DIRECTLY BENEATH PIPE UNCOMPACTED AS PIPE SEATING AND BACKFILL WILL ACCOMPLISH COMPACTION.
	SELECT BACKFILL (BELOW SPRINGLINE): SELECT BACKFILL MATERIAL MEETING NCDOT CLASS II, TYPES 1 OR 2 OR NCDOT CLASS III, TYPES 1 OR 2
	BACKFILL: APPROVED SUITABLE LOCAL COMPACTABLE MATERIAL ABOVE SPRINGLINE OF PIPE MEETING LOCAL MUNICIPAL SPECIFICATIONS.
	ROCK FOUNDATION OR UNSUITABLE MATERIAL FOUNDATION: SELECT MATERIAL NCDOT CLASS V (#78M STONE) OR NCDOT CLASS VI (#57 STONE) FOR FOUNDATION CONDITIONING. ENCAPSULATE WITH ENGINEERING FABRIC AS DIRECTED BY THE ENGINEER: TYPE 4 SOIL STABILIZATION FABRIC (NCDOT TABLE 1056-1). OVERLAP ALL TRANSVERSE AND LONGITUDINAL JOINTS IN FABRIC AT LEAST 18 INCHES. MAINTAIN THE PIPE FOUNDATION IN A DRY CONDITION.



RCP STORM DRAIN PIPE INSTALLATION

N.T.S.

1 OF 3

TABLE 1
EQUIVALENT USCS[a] AND AASHTO SOIL CLASSIFICATION FOR SIDD[b] SOIL DESIGNATIONS

SIDD	USCS	NCDOT/AASHTO
GRAVELLY SAND (CATEGORY I)	SW, SP, GW, GP	–NCDOT CLASS II–TYPE 1 (CRUSHED STONE SCREENINGS); LL<30; PI≤6 –NCDOT CLASS III, TYPE 1 (2S OR 2MS); LL<30; PI≤6
SANDY SILT (CATEGORY II)	GM, SM, &/SD GC, SC WITH LESS THAN 20% PASSING #200 SIEVE	–NCDOT CLASS II TYPE 1 (CRUSHED STONE SCREENINGS) AND CLASS II, TYPE 2 (AASHTO M145 FOR A-2-4 WITH MAX PI OF 6, A-4 W/ MAX 45% PASSING #200 SIEVE AND A MAX PI OF 6) –NCDOT CLASS III, TYPE 1 (2S OR 2MS) OR CLASS III, TYPE 2 (AASHTO M145 FOR SOIL CLASSIFICATION A-1 OR A-3)
SILTY CLAY (CATEGORY III)	CL, MH, GC, SC	A5, A6

[a] UNIFIOLD SOIL CLASSIFICATION SYSTEM
[b] STANDARD INSTALLATIONS DIRECT DESIGN

TABLE 2
STANDARD INSTALLATIONS SOILS AND MINIMUM COMPACTION REQUIREMENTS

INSTALLATION TYPE	BEDDING THICKNESS	OUTER BEDDING (B1) NOTE 5 (% COMPACTION/CATEGORY)	HAUNCH ZONE & SELECT BACKFILL AREA (% COMPACTION/CATEGORY)	LOCATION
TYPE 1	B1 = D/6 (6" MIN) B2=IF ROCK FOUNDATION OR OVER UNSUITABLE FOUNDATION, 6" /YT OF "A", 12" MIN/24" MAX	95% CATEGORY 1	90% CATEGORY 1 95% CATEGORY II	PAVED AREAS WITH 2' OR LESS BURY
TYPE 2	B1 = D/6 (6" MIN) B2=IF ROCK FOUNDATION OR OVER UNSUITABLE FOUNDATION, 6" /YT OF "A", 12" MIN/24" MAX	90% CATEGORY 1	85% CATEGORY 1 90% CATEGORY II	PAVED AREAS WITH GREATER THAN 2' OF BURY
TYPE 3	B1 = D/6 (6" MIN) B2=IF ROCK FOUNDATION OR OVER UNSUITABLE FOUNDATION, 6" /YT OF "A", 12" MIN/24" MAX	85% CATEGORY 1 90% CATEGORY II	85% CATEGORY 1 90% CATEGORY II OR 95% CATEGORY III	IN R/W OUTSIDE OF PAVEMENT
TYPE 4	B1= D/6 (6" MIN) B2=IF ROCK FOUNDATION OR OVER UNSUITABLE FOUNDATION, 6" /YT OF "A", 12" MIN/24" MAX	NO COMPACTION REQUIRED, EXCEPT IF CATEGORY III, USE 85% CATEGORY III	NO COMPACTION REQUIRED, EXCEPT IF CATEGORY III, USE 85% CATEGORY III	NATURAL AREAS

NOTES:
1. COMPACTION AND SOIL SYMBOLS – I.E. "95% CATEGORY I" – REFERS TO CATEGORY I SOIL MATERIAL WITH MINIMUM STANDARD PROCTOR COMPACTION OF 95%.
2. SOIL IN THE OUTER BEDDING, HAUNCH, AND LOWER SIDE ZONES, EXCEPT UNDER THE MIDDLE $\frac{1}{3}$ OF THE PIPE, SHALL BE COMPACTED TO AT LEAST THE SAME COMPACTION AS THE MAJORITY OF THE SOIL IN THE OVERFILL (BACKFILL) ZONE.
3. FOR TRENCHES. THE TOP ELEVATION SHALL BE NO LOWER THAN 0.1H BELOW FINISHED GRADE OR, FOR ROADWAYS, ITS TOP SHALL BE NO LOWER THAN AN ELEVATION OF 1–FOOT BELOW THE BOTTOM OF THE PAVEMENT BASE MATERIAL.
4. FOR TRENCHES, THE WIDTH SHALL BE WIDER THAN SHOWN IF REQUIRED FOR ADEQUATE SPACE TO ATTAIN THE SPECIFIED COMPACTION IN THE HAUNCH AND BEDDING ZONES.
5. COMPACT OUTER BEDDING AFTER PIPE IS PLACED AND PRIOR TO PLACEMENT OF SELECT FILL. MIDDLE BEDDING IS UNCOMPACTED.
6. OVERFILL (BACKFILL) SOILS TO BE PLACED PER STANDARD SPECIFICATION 02700 STORM DRAINAGE FOR THE APPLICABLE BACKFILL TYPE AND BURY LIMITATIONS.
7. THESE TWO TABLES WERE MODIFIED TO GENERALLY CONFORM TO THE NCDOT STANDARDS AS SHOWN IN DETAIL 300.01 RIGID PIPE IN TRENCH CONDITION.

REFERENCE SOURCES:
1. AMERICAN CONCRETE PIPE ASSOCIATION DESIGN STANDARDS
2. 2012 NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES AND NCDOT STANDARD DETAILS 300.01 FOR RIGID PIPE, TRENCH CONDITIONS."

STORM DRAIN PIPE INSTALLATION

2 OF 3

FILL HEIGHT TABLE[a]

INSIDE PIPE DIAMETER (I) (INCHES)	TYPE 3 (BEDDING) INSTALLATION (0.01 INCH CRACK) CLASS III PIPE MAXIMUM BURY H (FEET)	TYPE 3 (BEDDING) INSTALLATION (0.01 INCH CRACK) CLASS IV PIPE MAXIMUM BURY H (FEET)	TYPE 4 (BEDDING) INSTALLATION (0.01 INCH CRACK) CLASS III PIPE MAXIMUM BURY H (FEET)	TYPE 4 (BEDDING) INSTALLATION (0.01 INCH CRACK) CLASS IV PIPE MAXIMUM BURY H (FEET)
15	2 MIN, 12 MAX	1 MIN, 20 MAX	3 MIN, 7 MAX	2 MIN, 12 MAX
18	2 MIN, 12 MAX	1 MIN, 20 MAX	3 MIN, 7 MAX	1 MIN, 13 MAX
24	1 MIN, 12 MAX	1 MIN, 20 MAX	2 MIN, 8 MAX	1 MIN, 13 MAX
30	1 MIN, 12 MAX	1 MIN, 20 MAX	1 MIN, 8 MAX	1 MIN, 13 MAX
36	1 MIN, 12 MAX	1 MIN, 20 MAX	1 MIN, 8 MAX	1 MIN, 13 MAX
42	1 MIN, 12 MAX	1 MIN, 20 MAX	1 MIN, 8 MAX	1 MIN, 13 MAX
48	1 MIN, 12 MAX	1 MIN, 19 MAX	1 MIN, 8 MAX	1 MIN, 13 MAX
54	1 MIN, 12 MAX	1 MIN, 19 MAX	1 MIN, 8 MAX	1 MIN, 13 MAX
60	1 MIN, 12 MAX	1 MIN, 19 MAX	1 MIN, 8 MAX	1 MIN, 13 MAX
72	1 MIN, 11 MAX	1 MIN, 19 MAX	1 MIN, 7 MAX	1 MIN, 13 MAX

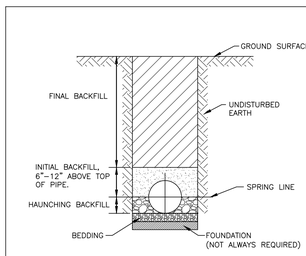
FILL HEIGHT TABLE BASE ON:
1. γ_s = 120 PCF (BACKFILL LOAD)
2. AASHTO HL–93 LIVE LOAD
3. POSITIVE PROJECTING EMBANKMENT CONDITION (THIS GIVES CONSERVATIVE RESULTS IN COMPARISON TO TRENCH CONDITIONS)
4. PIPE = REINFORCED CONCRETE PIPE MEETING ASTM C76 (AASHTO M170), WALL C THICKNESS
5. CONCRETE PIPE SHOULD BE INSTALLED IN ACCORDANCE WITH AASHTO LRFD BRIDGE CONSTRUCTION SPECIFICATIONS SECTION 27 OR ASTM C1479.

[a] FILL HEIGHT TABLES, THE PORTION EXCERPTED HERE, WAS DEVELOPED BY THE AMERICAN CONCRETE PIPE ASSOCIATION (ACPA) USING THE INDIRECT DESIGN METHOD IN ACCORDANCE WITH SECTION 12.10.4.3 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATION, 4TH, 2007 WITH 2008 INTERIM.

NOTES:
1. GREATER BURY DEPTHS THAN THOSE SHOWN ABOVE ARE ACHIEVABLE BY EITHER USING TYPE 1 OR 2 INSTALLATION, USING CLASS V PIPE, CONTROLLING BACKFILL TYPE, CALCULATING DEPTH USING A TRENCH CONDITION, OR BY SPECIAL DESIGN. SEE ALSO DESIGN DATA 9 PUBLISHED BY THE ACPA FOR DESIGN METHODOLOGY.
2. IN LIEU OF CALCULATING BURY DEPTH FOR OTHER CONDITIONS, FIRST SEE "LRFD FILL HEIGHT TABLES FOR CONCRETE PIPE", LAST REVISED JULY 2009 OR LATER), PREPARED BY THE ACPA FOR OTHER BURY DEPTH POSSIBILITIES

STORM DRAIN PIPE INSTALLATION

3 OF 3



NOTES:
1. FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH A FOUNDATION OF CLASS I OR II MATERIAL AS DEFINED IN ASTM D2321, "STANDARD" PRACTICE FOR INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY–FLOW APPLICATIONS," LATEST EDITION; AS AN ALTERNATIVE AND AT THE DISCRETION OF THE ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A WOVEN GEOTEXTILE FABRIC.
2. BEDDING: SUITABLE MATERIAL SHALL BE CLASS I, II OR III AND INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION. UNLESS OTHERWISE SPECIFIED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" FOR 12"–24" AND 6" FOR 30"–60" HIGH DENSITY POLYETHYLENE PIPE (HDPE).

2a. HAUNCHING BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I OR II MATERIAL (CLASS 57 OR 67 STONE RECOMMENDED) PLACED FROM BEDDING TO THE SPRINGLINE OF THE PIPE.

3. INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II OR III AND INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
4. UNLESS OTHERWISE SPECIFIED BY THE ENGINEER, MINIMUM TRENCH WIDTHS SHALL BE AS FOLLOWS:

NOMINAL Ø in	MIN. RECOMMENDED TRENCH WIDTH, in
4	21
6	23
8	26
10	28
12	30
15	34
18	39
24	48
30	56
36	64
42	72
48	80
60	96

5. MINIMUM COVER: MINIMUM RECOMMENDED DEPTHS OF COVER FOR VARIOUS LIVE LOADING CONDITIONS ARE SUMMARIZED IN THE FOLLOWING TABLE. UNLESS OTHERWISE NOTED. ALL DIMENSIONS ARE TAKEN FROM THE TOP OF PIPE TO THE GROUND SURFACE.

SURFACE LIVE LOADING CONDITION	12"–48" DIA. MIN. RECOMMENDED COVER, in	60" DIA. MIN. RECOMMENDED COVER, in
H25 (FLEXIBLE PAVEMENT)	12	24
H25 (RIGID PAVEMENT)	12	24
E80 RAILWAY	24	–
HEAVY CONSTRUCTION	48	60

6. INSTALLATION INFORMATION: REFER TO ASTM SPECIFICATION D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITYFLOW APPLICATIONS" SO THAT APPROPRIATE MODIFICATIONS CAN BE MADE TO ACCOMODATE SITE SPECIFIC NEEDS.

HDPE PIPE TRENCH INSTALLATION DETAIL

N.T.S.

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

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McADAMS
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FRAZIER FARM PARK
30% CONSTRUCTION DRAWINGS
11624 LOUISBURG ROAD
ROLESVILLE, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 040960 SAHWETA NAMEKAR REGISTERED NOT FOR CONSTRUCTION PRELIMINARY

REVISIONS

NO. DATE

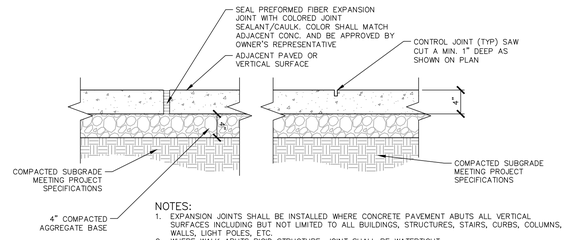
PLAN INFORMATION

PROJECT NO.	202011039
FILENAME	202011039-D1
CHECKED BY	SN
DRAWN BY	JB
SCALE	N/A
DATE	05. 14. 2021

SHEET

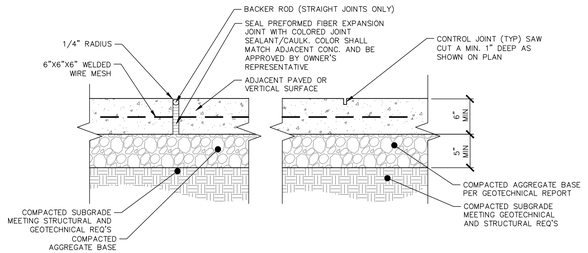
STORM DRAINAGE & UTILITY DETAILS

C8.03



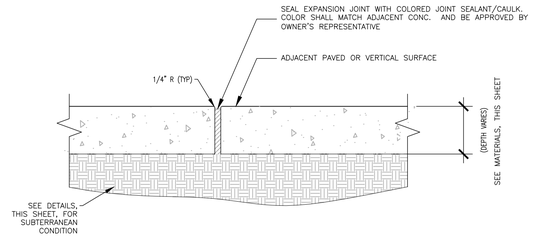
NOTES:
1. EXPANSION JOINTS SHALL BE INSTALLED WHERE CONCRETE PAVEMENT ABUTS ALL VERTICAL SURFACES INCLUDING BUT NOT LIMITED TO ALL BUILDINGS, STRUCTURES, STAIRS, CURBS, COLUMNS, WALLS, LIGHT POLES, ETC.
2. WHERE WALK ABUTS RIGID STRUCTURE, JOINT SHALL BE WATERTIGHT.
3. PROVIDE EXPANSION JOINTS @ 20' O.C. MAX UNLESS OTHERWISE SHOWN/ REQUIRED. (SEE MATERIALS & STAKING PLAN)
4. CONTROL JOINT SPACING SHALL BE EQUAL TO SIDEWALK WIDTH BUT IN NO INSTANCE EXCEED 6'. SEE MATERIALS & STAKING PLAN FOR ALL OTHER JOINT SPACING)
5. SAW CUT TO A MIN. DEPTH OF 1". CONTRACTOR TO CLOSELY COORDINATE LOCATIONS AND DESIGNS PRIOR TO AND DURING CONSTRUCTION.
6. ALL LIGHT DUTY CONCRETE SHALL BE 3,000 PSI UNLESS OTHERWISE REQUIRED BY PROJECT SPECIFICATIONS.

01 SIDEWALK SECTION- LIGHT DUTY
SCALE: 1"=1'-0"



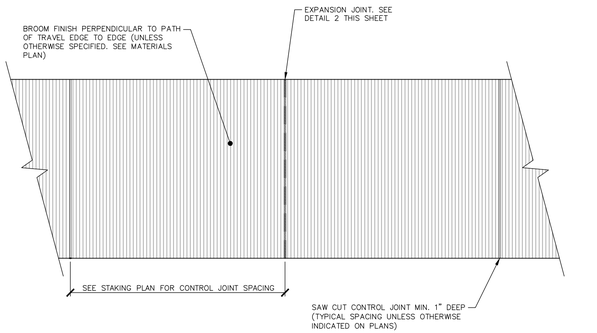
NOTES:
1. EXPANSION JOINTS SHALL BE INSTALLED WHERE CONCRETE PAVEMENT ABUTS ALL VERTICAL SURFACES INCLUDING BUT NOT LIMITED TO ALL BUILDINGS, STRUCTURES, STAIRS, CURBS, COLUMNS, WALLS, LIGHT POLES, ETC.
2. WHERE WALK ABUTS RIGID STRUCTURE, JOINT SHALL BE WATERTIGHT.
3. PROVIDE EXPANSION JOINTS @ 10' O.C. MAX UNLESS OTHERWISE SHOWN/ REQUIRED. (SEE MATERIALS & STAKING PLAN)
4. CONTROL JOINT SPACING SHALL BE EQUAL TO SIDEWALK WIDTH BUT IN NO INSTANCE EXCEED 6'. SEE MATERIALS & STAKING PLAN FOR ALL OTHER JOINT SPACING)
5. SAW CUT TO A MIN. DEPTH OF 1". CONTRACTOR TO CLOSELY COORDINATE LOCATIONS AND DESIGNS PRIOR TO AND DURING CONSTRUCTION.
6. ALL HEAVY DUTY CONCRETE SHALL BE 4,000 PSI UNLESS OTHERWISE REQUIRED BY PROJECT SPECIFICATIONS.
7. CONCRETE AND BASE DEPTH TO BE VERIFIED BY GEOTECHNICAL ENGINEER. DEPTHS MAY BE MODIFIED TO MEET ALL LOADING REQUIREMENTS.

02 SIDEWALK SECTION- HEAVY DUTY
SCALE: 1"=1'-0"



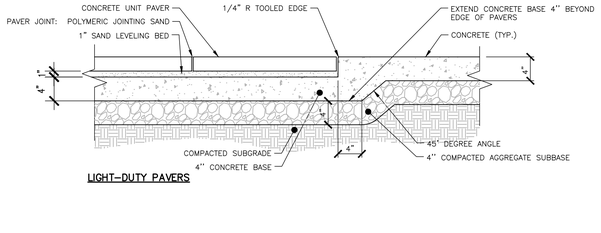
NOTES:
1. EXPANSION JOINTS SHALL BE INSTALLED WHERE CONCRETE PAVEMENT ABUTS ALL VERTICAL SURFACES INCLUDING BUT NOT LIMITED TO ALL BUILDINGS, STRUCTURES, GRANITE SLABS, CURBS, COLUMNS, WALLS, LIGHT POLES, ETC.
2. USE FIBER EXPANSION FOR ALL EXPANSION JOINTS. MATERIAL TO BE REMOVED AFTER CURING OF CONCRETE PRIOR TO SEALANT APPLICATION.
3. WHERE WALK ABUTS RIGID STRUCTURE, JOINT SHALL BE WATERTIGHT. ABC TO BE INSTALLED BENEATH CONCRETE PENDING CONTRACTOR REVIEW OF GEOTECHNICAL ENGINEER'S REPORT.
4. SEE SIDEWALK DETAILS, THIS SHEET.

03 CONCRETE EXPANSION JOINT
SCALE: 1"=1'-0"



NOTES:
1. REFER TO DETAILED LAYOUT PLAN FOR SIDEWALK LOCATIONS, TYPES AND WIDTHS.
2. REFER TO DETAILED LAYOUT PLAN FOR SPECIFIC JOINT LOCATIONS AND SPACING.
3. USE THIS DETAIL FOR TYPICAL JOINT SPACING WHEN NO SPECIFIC JOINT SPACING IS INDICATED ON PLANS.
4. CONTROL JOINT SPACING SHALL BE EQUAL TO SIDEWALK WIDTH BUT IN NO INSTANCE EXCEED 6'. SEE MATERIALS & STAKING PLAN FOR ALL OTHER JOINT SPACING.
5. MAXIMUM SIDEWALK CROSS-SLOPE IS 2%.

04 SIDEWALK PLAN VIEW- SAW CUT
SCALE: 1"=1'-0"

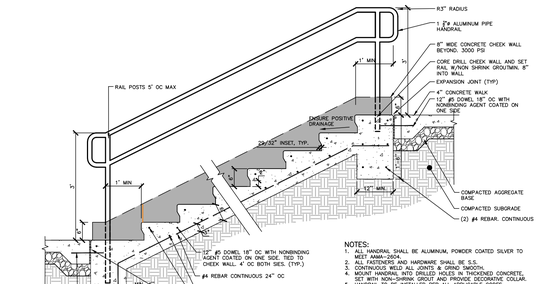


LIGHT-DUTY PAVERS

HEAVY-DUTY PAVERS

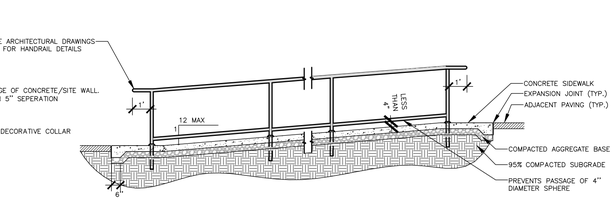
PAVER NOTES:
1. SEE MATERIAL SCHEDULE SHEET FOR CONCRETE UNIT PAVER TYPES AND LOCATIONS

05 PAVER ON CONCRETE BASE
SCALE: 1"=1'-0"



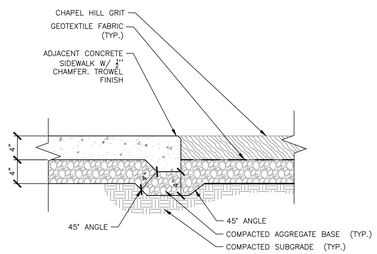
NOTES:
1. ALL HANDRAIL SHALL BE ALUMINUM, POWDER COATED SILVER TO MEET AAMA-2604.
2. ALL FASTENERS AND HARDWARE SHALL BE S.S.
3. CONTINUOUS WELD ALL JOINTS & GRIND SMOOTH.
4. MOUNT HANDRAIL INTO DRILLED HOLES IN THICKENED CONCRETE, WITH NON-SHRINK GROUT AT RAIL POSTS. PROVIDE ESCUTCHEON COLLAR.
5. HANDRAIL TO BE INSTALLED AT ALL TRAVERSABLE CURBS.
6. SEE SITE PLAN AND GRADING PLAN FOR QUANTITY AND LOCATION OF TREADS AND RISERS.
7. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR APPROVAL BE OWNER/ LANDSCAPE ARCHITECT.
8. ALL REBAR 2" MINIMUM EMBEDMENT IN CONCRETE OR DIMENSION SHOWN.

06 DETAIL
SCALE: 1/2"=1'-0"



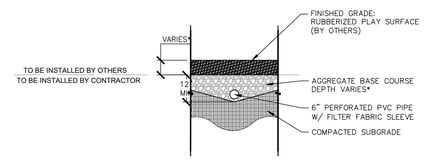
1. WHEN HANDRAIL EXTENDS INTO THE PATH OF TRAVEL, WRAP 1' EXTENSION AROUND ADJACENT WALL OR COLUMN.
2. SEE CB00, CITY DETAIL 516.00 FOR TYPICAL HANDRAIL AS REQUIRED BY THE CITY.

07 RAMP AND HANDRAIL DETAIL
SCALE: 1/4"=1'-0"



NOTE:
1. PROVIDE MAX. 2% CROSS-SLOPE FOR ADEQUATE DRAINAGE.
2. COLOR OF CHAPEL HILL GRIT TO BE APPROVED BY OWNER'S REPRESENTATIVE OR LANDSCAPE ARCHITECT.
3. INSTALL CHAPEL HILL GRIT IN TWO (2) 2" LIFTS AND COMPACT AS REQUIRED.

08 GRIT PATH
SCALE: 1" = 1'-0"



*DEPTH OF RUBBERIZED PLAY SURFACE VARIES BASED UPON FALL HEIGHTS OF PLAY EQUIPMENT. CONTRACTOR SHALL COORDINATE WITH THE PLAYGROUND CONTRACTOR TO DETERMINE DEPTHS AND PLACEMENT OF AGGREGATE TO MATCH THE PLAYGROUND DESIGN.

PLAYGROUND CONTRACTOR:
Contact:
Phone:
EMail:

09 RUBBERIZED SAFETY PLAY SURFACE
SCALE: NTS

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FRAZIER FARM PARK
30% CONSTRUCTION DRAWINGS
11624 LOUISBURG ROAD
ROLESVILLE, NORTH CAROLINA

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1900 SAWETA NANEKAR
PRELIMINARY NOT FOR CONSTRUCTION

REVISIONS

NO.	DATE

PLAN INFORMATION

PROJECT NO.	202011039
FILENAME	202011039-D1
CHECKED BY	SN
DRAWN BY	XXX
SCALE	SEE DRAWINGS
DATE	05. 14. 2021

SHEET

HARDSCAPE DETAILS
C8.10

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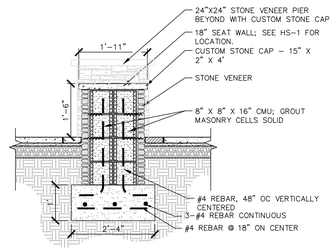
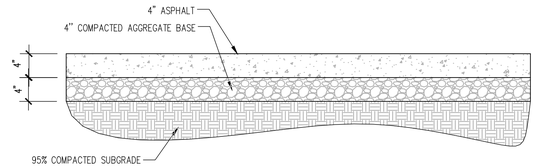
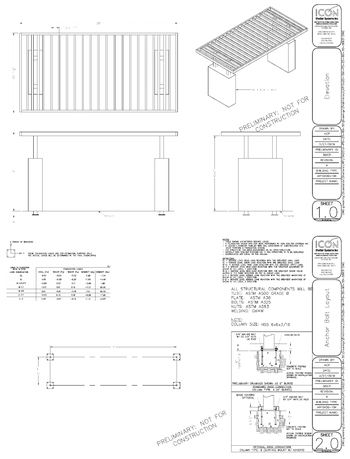


NOTES:
FINAL FOUNDATION DRAWINGS AND REINFORCEMENT DETAILS WILL BE PROVIDED BY STRUCTURAL ENGINEER.
INCLUDE ELECTRICAL CONDUIT FOR STRIP LIGHTING BELOW THE STONE CAP ON THE VERTICAL FACE OF THE SEAT WALL.
SEE PLAN FOR LOCATION OF STRIP LIGHTING.

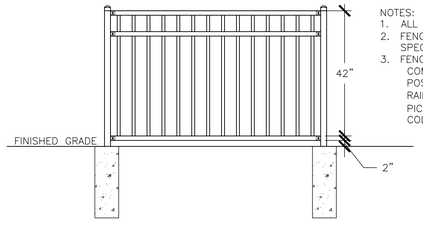


10 NOT USED
SCALE: NTS



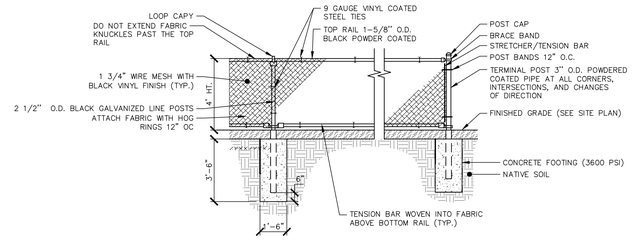
NOTE:
- STONE WRAP AROUND WALL COLUMN.
- STONE VENEER COLOR AND MAKE TO BE SELECTED AND APPROVED BY LA.

11 SEAT WALL WITH PIER
SCALE: 1/2"=1'-0"



NOTES:
1. ALL FASTENERS AND HARDWARE SHALL BE S.S.
2. FENCE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
3. FENCE DIMENSIONS (OR EQUAL)
   COMMERCIAL STRENGTH ALUMINUM
   POSTS: 2" X 2"
   RAILS: 1" X 1" – NO EXPOSED SCREW SYSTEM
   PICKETS: 5/8" X 5/8" W/ 3 13/16" SPACING
   COLOR: BLACK

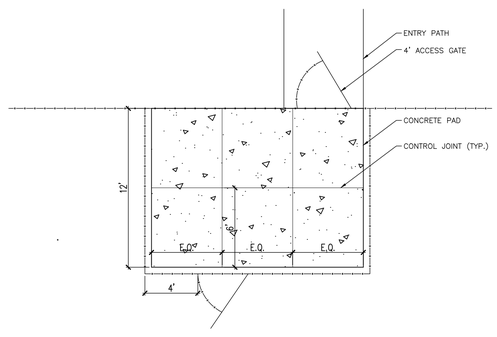
12 ASPHALT MULTI USE TRAIL
SCALE: 1/2"=1'-0"



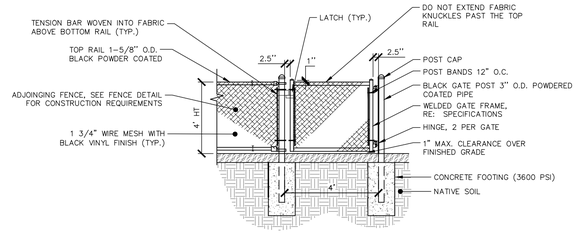
NOTES:
1. SEE SPECIFICATIONS FOR POST AND RAIL SIZING.
2. ALL POST FOOTINGS SHALL BE PER SPECIFICATIONS.
3. SEE SPECIFICATIONS FOR FENCE FINISH REQUIREMENTS.
4. ALL FABRIC TO BE ON OUTSIDE OF RAILS AND POSTS.
5. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR APPROVAL.
6. CONTRACTOR TO SUBMIT FENCE POST LOCATION PLAN FOR APPROVAL.
7. FENCE NOT DESIGNED FOR WIND SCREEN USE.
8. ALL POSTS, RAILS AND FITTINGS SHALL BE BLACK POWDER COATED.

13 ENTRY ARBOR - DESIGN INTENT
SCALE: NTD

14 FALL PROTECTION FENCE
SCALE: 1/2"=1'-0"



15 4' CHAIN LINK FENCE
SCALE: 1/4"=1'-0"

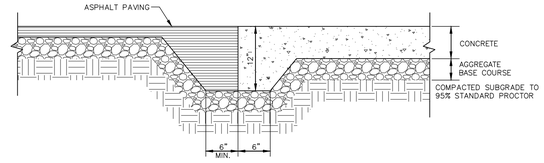


NOTES:
1. SEE SPECIFICATIONS FOR POST AND RAIL SIZING.
2. ALL POST FOOTINGS SHALL BE PER SPECIFICATIONS.
3. SEE SPECIFICATIONS FOR FENCE FINISH REQUIREMENTS.
4. ALL FABRIC TO BE ON OUTSIDE OF RAILS AND POSTS.
5. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR APPROVAL.
6. CONTRACTOR TO SUBMIT FENCE POST LOCATION PLAN FOR APPROVAL.
7. FENCE NOT DESIGNED FOR WIND SCREEN USE.
8. ALL POSTS, RAILS AND FITTINGS SHALL BE BLACK POWDER COATED.
9. CONTRACTOR TO PROVIDE ELECTRONIC CARD/CHIP READER AT MAIN GATE PER OWNER'S DIRECTION.

16 4' CHAIN LINK FENCE SINGLE SWING GATE
SCALE: 1/4"=1'-0"

17 DOG PARK ENTRY
SCALE: N.T.S.

18 ASPHALT TO CONCRETE PAVEMENT TRANSITION
SCALE: NTS



ASPHALT TO CONCRETE PAVEMENT TRANSITION
N.T.S.

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ADDRESS	ROLESVILLE NC 27571
PHONE:	919.554.6582

FRAZIER FARM PARK
30% CONSTRUCTION DRAWINGS
11624 LOUISBURG ROAD
ROLESVILLE, NORTH CAROLINA

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1960 SRIVETA NANEKAR NOT FOR CONSTRUCTION

REVISIONS

NO.	DATE

PLAN INFORMATION

PROJECT NO.	202011039
FILENAME	202011039-D1
CHECKED BY	SN
DRAWN BY	XXX
SCALE	SEE DRAWINGS
DATE	05. 14. 2021

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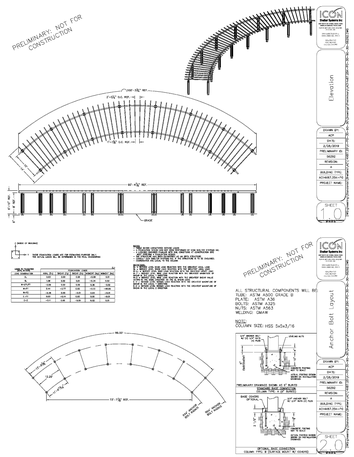
HARDSCAPE DETAILS

C8.11

M:\Projects\TownRoleesville\202011039 Frazier Farm Park\04-Production\Engineering\Construction Drawings\202011039-HB1-recovered.dwg, 5/28/2021 7:59:46 AM, Jenkins, Garrett



NOTE:
- STONE WRAP AROUND COLUMN.
- STONE VENEER COLOR AND MAKE TO BE SELECTED AND APPROVED BY LA.

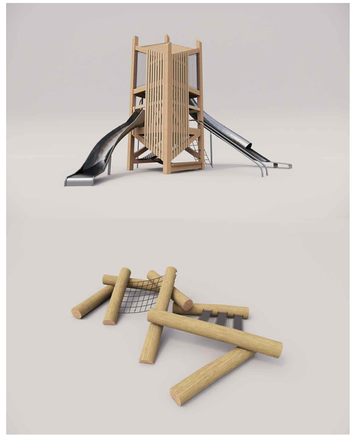
19 CURVED ARBOR - DESIGN INTENT
SCALE: NTS

20 STEPPING BOULDERS - DESIGN INTENT
SCALE: NTS

21 COMPOSITE DECKING BRIDGE - DESIGN INTENT
SCALE: NTS

22 SPLIT RAIL FENCE WITH STONE COLUMNS - DESIGN INTENT
SCALE: NTS

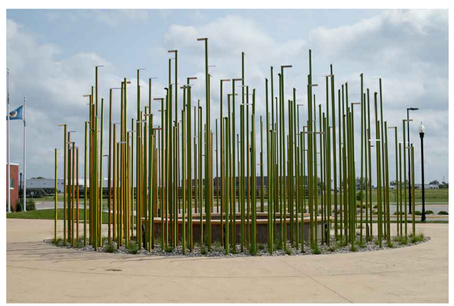
23 WETLAND OBSERVATION - DESIGN INTENT
SCALE: NTS



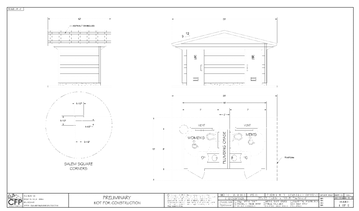
PLAYGROUND ALLOWANCE: $500,000 (INCLUDES SAFETY SURFACING, PURCHASE OF EQUIPMENT, AND INSTALLATION

24 PLAYGROUND - DESIGN INTENT
SCALE: NTS

25 PICNIC SHELTER AT PLAYGROUND - DESIGN INTENT
SCALE: NTS



26 PUBLIC ART - DESIGN INTENT
SCALE: N.T.S.



27 RESTROOM BUILDING (AT DOG PARK) - DESIGN INTENT
SCALE: N.T.S.

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

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FRAZIER FARM PARK
30% CONSTRUCTION DRAWINGS
11624 LOUISBURG ROAD
ROLESVILLE, NORTH CAROLINA

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 2230 SAMEETA NAMEKAR
PRELIMINARY NOT FOR CONSTRUCTION

REVISIONS

NO.	DATE

PLAN INFORMATION

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DRAWN BY	XXX
SCALE	SEE DRAWINGS
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HARDSCAPE DETAILS

C8.12

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BIORETENTION AREA CONSTRUCTION SPECIFICATIONS

GENERAL NOTES

1. PRIOR TO CONSTRUCTION, ANY DISCREPANCIES IN THE PLANS AND NOTES SHALL BE BROUGHT TO THE DESIGN ENGINEER'S ATTENTION IMMEDIATELY.

2. THE FINAL CERTIFICATION FOR THIS FACILITY WILL INCLUDE A CERTIFICATION BY THE ON-SITE GEOTECHNICAL ENGINEER THAT THE PROJECT WAS CONSTRUCTED PER THE APPROVED PLANS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE ON-SITE GEOTECHNICAL ENGINEER FOR OBSERVATION AND TESTING SUCH THAT THE ON-SITE GEOTECHNICAL ENGINEER CAN CERTIFY THE CONSTRUCTION OF THE DAM EMBANKMENT AND SPILLWAY. THIS CERTIFICATION MUST ADDRESS THE TESTING FOR MATERIALS AND COMPACTION OF THE DAM EMBANKMENT AND SPILLWAY.

3. ALL CONSTRUCTION ACTIVITY RELATED TO THE PROPOSED STORMWATER CONTROL MEASURE SHALL BE PER THE DETAILS AND SPECIFICATIONS SHOWN IN THESE DRAWINGS. SOILS, COMPACTION, AND OTHER MISCELLANEOUS DETAILS AND SPECIFICATIONS MAY BE MODIFIED PER THE RECOMMENDATIONS OF THE ON-SITE GEOTECHNICAL ENGINEER. HOWEVER, PRIOR TO IMPLEMENTATION, THE DESIGN ENGINEER SHALL BE NOTIFIED OF ANY DEVIATION FROM THESE DESIGN DRAWINGS, INCLUDING SHOP DRAWINGS FOR ANY PROPOSED MODIFICATION.

4. DURING THE INITIAL STAGES OF CONSTRUCTION, THE STORMWATER CONTROL MEASURE MAY BE USED AS A SEDIMENT BASIN FOR EROSION CONTROL PURPOSES. IF SO, THE CONTRACTOR SHALL FOLLOW THE GENERAL CONSTRUCTION SEQUENCE BELOW:
   - A. THE CONTRACTOR SHALL CONSTRUCT THE ENTIRE FACILITY (PERMANENT OUTLET STRUCTURE, DAM, KEY TRENCH, ETC.) WITH THE EXCEPTION OF THE INTERIOR FINE GRADING AND THE BIORETENTION MEDIA FOR THE FACILITY. THE INTERIOR FINE GRADING AND BIORETENTION MEDIA WILL BE CONSTRUCTED ONCE THE EROSION CONTROL PHASE IS COMPLETE.
   - B. THE TEMPORARY DRAW DOWN RISER (OR SKIMMER) SHALL BE CONNECTED TO THE 8" UNDERDRAIN OUTLET ORIFICE.
   - C. ONCE THE UPSTREAM DRAINAGE AREA IS STABILIZED AND THE EROSION CONTROL INSPECTOR APPROVES THE REMOVAL OF THE SEDIMENT BASIN, THE CONTRACTOR SHALL REMOVE THE TEMPORARY DRAW DOWN RISER (OR SKIMMER) AND CLEAN OUT THE BASIN. ALL SEDIMENT, TRASH, ETC. SHALL BE DISPOSED OF PROPERLY (I.E. - PLACED IN A LANDFILL) AND NOT STOCKPILED IN AN AREA WHERE WATER QUALITY COULD BE ADVERSELY AFFECTED.
   - D. ONCE THE BASIN IS CLEANED OUT, AND ALL EROSION CONTROL DEVICES REMOVED, THE CONTRACTOR SHALL CONSTRUCT THE INTERIOR GRADING SHOWN ON THIS SHEET.
   - E. ONCE THE GRADING IS COMPLETE, THE CONTRACTOR SHALL REQUEST AN ON-SITE INSPECTION AND AN AS-BUILT SURVEY PRIOR TO INSTALLATION OF THE STORMWATER CONTROL MEASURE PLANTS. IF THE CONTRACTOR PLANTS THE PROPOSED VEGETATION PRIOR TO AN AS-BUILT SURVEY (AND SUBSEQUENT APPROVAL), ANY CHANGES TO THE GRADING / RE-PLANTING OF PLANTS WILL BE AT THE CONTRACTOR'S EXPENSE.
   - F. ONCE THE ENGINEER HAS APPROVED THE AS-BUILT GRADING, THE CONTRACTOR SHALL PLANT THE PROPOSED STORMWATER CONTROL MEASURE PLANTS SHOWN ON THE LANDSCAPE PLAN FOR THE FACILITY. AFTER COMPLETION OF THE PLANTING, THE LANDSCAPE CONTRACTOR SHALL PROVIDE A LETTER TO THE ENGINEER CERTIFYING THAT THE PLANTS HAVE BEEN INSTALLED PER THE APPROVED STORMWATER CONTROL MEASURE PLANTING PLAN. THE CONTRACTOR SHALL PROVIDE A ONE-YEAR WARRANTY FOR ALL PLANTS INSTALLED.

5. ALL OSHA REQUIREMENTS FOR EXCAVATIONS (SHORING, DEPTH, ETC.) ARE THE RESPONSIBILITY OF THE CONTRACTOR. IF REQUIRED, THE CONTRACTOR SHALL PROVIDE AN EXCAVATION PLAN TO BE SEALED BY A NC P.E. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE IF AN EXCAVATION PLAN IS REQUIRED. THE JOHN R. MCADAMS COMPANY ASSUMES NO RESPONSIBILITY FOR ANY EXCAVATION DESIGN RELATED TO SAFETY OR OSHA REQUIREMENTS.

6. IT IS ANTICIPATED THAT DEWATERING WILL BE NECESSARY IN THE EXCAVATION AREAS (E.G. - EMBANKMENT SUB GRADE, INTERIOR PORTIONS OF THE STORMWATER CONTROL MEASURE, KEY TRENCH, ETC.). THEREFORE, THE CONTRACTOR SHALL FURNISH, INSTALL, OPERATE, AND MAINTAIN ANY PUMPING EQUIPMENT, ETC. NEEDED FOR REMOVAL OF WATER FROM VARIOUS PARTS OF THE STORMWATER CONTROL MEASURE SITE. DURING PLACEMENT OF FILL WITHIN THESE AREAS, THE CONTRACTOR SHALL KEEP THE WATER LEVEL BELOW THE BOTTOM OF THE EXCAVATION / CONSTRUCTION AREAS. THE MANNER IN WHICH THE WATER IS REMOVED SHALL BE SUCH THAT THE EXCAVATION BOTTOM AND SIDE SLOPES ARE STABLE, WITH NO SEDIMENT DISCHARGED FROM THE SITE (I.E. PUMPED WATER MAY NEED TO BE DIRECTED TO AN APPROVED EROSION CONTROL DEVICE SUCH AS A DIRT BAG (ACF ENVIRONMENTAL), OR ENGINEER APPROVED EQUIVALENT, PRIOR TO DISCHARGE).

7. PRIOR TO CONSTRUCTION, THE ONSITE GEOTECHNICAL ENGINEER SHALL VERIFY THE FILTRATION AND PERMEABILITY ASPECTS OF THE PROPOSED BIORETENTION MATERIALS. SPECIAL ATTENTION SHALL BE PAID TO PREVENT MIGRATION OF FINER SOIL PARTICLES THROUGH UNDERLYING GRAVEL LAYERS.

8. PRIOR TO PLACING THE BIORETENTION AREA BACKFILL MATERIAL, THE CONTRACTOR SHALL REQUEST AN ON-SITE MEETING WITH THE DESIGN ENGINEER AND THE EROSION CONTROL INSPECTOR TO ENSURE THE UPSTREAM DRAINAGE AREA IS COMPLETELY STABILIZED (I.E. GOOD VEGETATIVE COVER). IF THE CONTRACTOR DECIDES TO PLACE THE BACKFILL FOR THE BIORETENTION AREA PRIOR TO APPROVAL FROM THE DESIGN ENGINEER AND THE EROSION CONTROL INSPECTOR, THEN THE CONTRACTOR SHALL EXCAVATE / REPLACE, AS NECESSARY, ANY BACKFILL MATERIAL NEEDED FOR THE SYSTEM TO FUNCTION PROPERLY AT HIS / HER EXPENSE SHOULD THE BIORETENTION AREA NOT FUNCTION PROPERLY (I.E. WILL NOT DRAIN DUE TO SEDIMENT DEPOSITION) DUE TO AN UNSTABILIZED UPSTREAM DRAINAGE AREA.

9. THE GRADES SHOWN ON THIS PLAN ARE FINISHED GRADES. IF THE EXISTING SOIL LAYER AFTER CONSTRUCTION / COMPACTION IS NOT DETERMINED SUITABLE BY A LANDSCAPE PROFESSIONAL FOR THE BIORETENTION AREA PLANTINGS, THEN THE CONTRACTOR SHALL AMEND THE PLANTING AREA OF THE BIORETENTION AREA AS DIRECTED BY A LANDSCAPE PROFESSIONAL.

10. PRIOR TO TOPSOIL INSTALLATION, THE CONTRACTOR SHALL SCARIFY THE TOP 2"-3" OF THE BERM SECTION TO PROMOTE BONDING OF THE TOPSOIL WITH THE COMPACTED FILL. THE TOPSOIL DEPTH SHALL RANGE FROM 3"-4" ON THE DAM EMBANKMENT. PLEASE NOTE THE TOPSOIL SHALL BE AMENDED, AS DIRECTED BY A LANDSCAPE PROFESSIONAL, PRIOR TO INSTALLATION ON THE EMBANKMENT.

11. ONCE CONSTRUCTION OF THE BIORETENTION INTERIOR IS COMPLETE, THE CONTRACTOR SHALL REQUEST AN ON-SITE INSPECTION AND AN AS-BUILT SURVEY PRIOR TO INSTALLATION OF ANY LANDSCAPING/PLANTS. IF THE CONTRACTOR PLANTS THE PROPOSED LANDSCAPING PRIOR TO AN AS-BUILT SURVEY (AND SUBSEQUENT APPROVAL), ANY CHANGES TO THE GRADING / RE-PLANTING OF PLANTS WILL BE AT THE CONTRACTOR'S EXPENSE.

12. THE CONTRACTOR SHALL REFER TO THE LANDSCAPE PLAN ON SHEET C9.03 FOR THE PERMANENT PLANTING PLAN/SCHEDULE FOR THE INTERIOR OF THE BIORETENTION AREA. THE PERMANENT VEGETATION FOR THE PROPOSED DAM EMBANKMENT SHALL BE TALL FESCUE. PLEASE NOTE THAT NO TREES/SHRUBS OR WOODY VEGETATION OF ANY TYPE MAY BE PLANTED ON THE PROPOSED DAM EMBANKMENT (FILL AREAS). THE INTERIOR SLOPES OF THE BIORETENTION AREA ARE TO BE PROVIDED WITH A TALL FESCUE SOD STRIP AROUND THE ENTIRE PERIMETER OF THE CELL FROM ELEVATION 358.50'-360.00'.

13. ANY EXPOSED EDGE/SIDE OF THE BIORETENTION CELL SHALL BE SODDED AS SOON AS POSSIBLE AFTER CONSTRUCTION IS COMPLETE. PLEASE REFER TO THE LANDSCAPE PLAN FOR ADDITIONAL INFORMATION.

CONSTRUCTION PREPARATION PLACEHOLDER

BIORETENTION PLANTING SOIL MIX SPECIFICATIONS

1. THE PLANTING SOIL SHALL BE A UNIFORM MIX, FREE OF STONES, STUMPS, ROOTS OR OTHER SIMILAR OBJECTS LARGER THAN ONE-HALF INCH IN DIAMETER. NO OTHER MATERIALS OR SUBSTANCES SHALL BE MIXED OR DUMPED WITHIN THE BIORETENTION AREA THAT MAY BE HARMFUL TO PLANT GROWTH, OR PROVE A HINDRANCE TO THE PLANTING OR MAINTENANCE OPERATIONS. THE PLANTING SOIL SHALL BE FREE OF BERMUDA GRASS, JOHNSON GRASS, QUACK GRASS, MUGWORT, NUTSEDGE, POISON IVY, CANADA THISTLE, OR OTHER NOXIOUS WEEDS.
2. THE MEDIA SHALL BE A HOMOGENOUS SOIL MIX ENGINEERED MEDIA BLEND WITH APPROXIMATE VOLUMES OF:
   - A. 75% TO 85% MEDIUM TO COARSE WASHED SAND (ASTM C33, AASHTO M6/M80, ASTM C330, AASHTO M195, OR APPROVED EQUIVALENT)
   - B. 8% TO 15% FINES (SILT AND CLAY, PASSING #200 SIEVE)
   - C. 5% TO 10% ORGANIC MATTER
3. THE P-INDEX OF THE MEDIA SHALL NOT EXCEED 30.
4. THE FOLLOWING TEST FREQUENCIES SHALL APPLY TO THE ABOVE SOIL CONSTITUENTS: ALL BIORETENTION AREAS SHALL HAVE A MINIMUM OF ONE TEST PER 200 CUBIC YARDS. EACH TEST SHALL CONSIST OF BOTH THE STANDARD SOIL TEST FOR MIX COMPOSITION AND PHOSPHORUS. A TEXTURAL ANALYSIS IS REQUIRED FROM THE SITE STOCKPILED BIORETENTION SOIL.
   NOTE:
   - SINCE DIFFERENT LABS CALIBRATE THEIR TESTING EQUIPMENT DIFFERENTLY, ALL TESTING RESULTS SHALL COME FROM THE SAME TESTING FACILITY.
5. AFTER INSTALLATION OF THE MEDIA, AN INFILTRATION TEST SHALL BE PERFORMED. THE MINIMUM INFILTRATION RATE OF THE INSTALLED MEDIA IS 1.0 IN/HR.
6. THE MEDIA SHALL NOT BE MECHANICALLY COMPACTED. IT IS RECOMMENDED TO EITHER WATER OR WALK ON THE MEDIA AS IT IS PLACED.
7. TRIPLE SHREDDED HARDWOOD MULCH SHALL BE USED FOR THE BIORETENTION AREA. MULCH SHALL BE UNIFORMLY PLACED TWO TO FOUR INCHES DEEP.

TESTING OF THE EMBANKMENT PLACEHOLDER

STATEMENT OF RESPONSIBILITY

ALL REQUIRED MAINTENANCE AND INSPECTIONS OF THIS FACILITY SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER, PER THE EXECUTED OPERATION AND MAINTENANCE AGREEMENT FOR THIS FACILITY.

BIORETENTION AREA MATERIAL SPECIFICATIONS

1. THE MULCH SHALL CONSIST OF DOUBLE OR TRIPLE SHREDDED HARDWOOD. MULCH SHALL BE WELL-AGED AND UNIFORM IN COLOR. WELL-AGED MULCH IS DEFINED AS MULCH THAT HAS BEEN STOCKPILED OR STORED FOR AT LEAST 12 MONTHS. MULCH SHOULD BE FREE OF WEED SEEDS, SOIL, ROOTS, OR ANY OTHER SUBSTANCE NOT CONSISTING OF EITHER BOLE OR BRANCH WOOD AND BARK. THE MULCH DEPTH SHALL BE 2-4 INCHES UNIFORMLY PLACED. GRASS CLIPPINGS ARE UNSUITABLE FOR MULCH AND SHOULD BE AVOIDED FOR USE WITHIN THE BIORETENTION AREA.
2. THE GRAVEL LAYER SHALL CONSIST OF NCDOT WASHED #57 STONE OR ENGINEER APPROVED EQUIVALENT
3. THE WASHED SAND SHALL MEET REQUIREMENTS OF WASHED ASTM-C-33 FINE AGGREGATE CONCRETE SAND. IN ADDITION TO THE ASTM-C-33 SPECIFICATION, THE WASHED SAND MUST MEET THE FOLLOWING CONDITIONS:
   - SAND MUST MEET GRADATION REQUIREMENTS FOR ASTM-C-33 FINE AGGREGATE CONCRETE SAND. AASHTO M-6/M-80, ASTM C330, AASHTO M195 GRADATION IS ALSO ACCEPTABLE.
   - SAND MUST BE SILICA BASED. NO LIMESTONE BASED PRODUCTS MAY BE USED. IF THE MATERIAL IS WHITE OR GRAY IN COLOR, IT IS PROBABLY NOT ACCEPTABLE.
   - SAND MUST BE CLEAN. NATURAL, UNWASHED SAND DEPOSITS MAY NOT BE USED. LIKEWISE, SAND THAT HAS BECOME CONTAMINATED BY IMPROPER STORAGE OR INSTALLATION PRACTICES WILL BE REJECTED.
   - MANUFACTURED SAND OR STONE DUST IS NOT ACCEPTABLE UNDER ANY CIRCUMSTANCE.
4. THE CHOKING STONE LAYER SHALL BE WASHED #8 OR WASHED #89 STONE LAYER MEETING THE REQUIREMENTS OF ASTM-C-33.
5. THE UNDERDRAIN PIPING FOR THE BIORETENTION AREA SHALL BE 8"Ø ADS N-12 PIPE. THE PIPE AND FITTINGS SHALL BE TYPE 'S' AND SHALL MEET THE REQUIREMENTS OF AASHTO M-252. THE 8"Ø PERFORATED PIPE SHALL CONTAIN CIRCULAR PERFORATIONS MEETING AASHTO CLASS II. THE PERFORATIONS SHALL BE ⅜" DIAMETER AT 6" ON CENTER MEETING PERFORATION PATTERN 'E' (6 AT 60°).

BIORETENTION AREA BACKFILLING SEQUENCE PLACEHOLDER

COMPACTION OF THE BIORETENTION AREA PLACEHOLDER

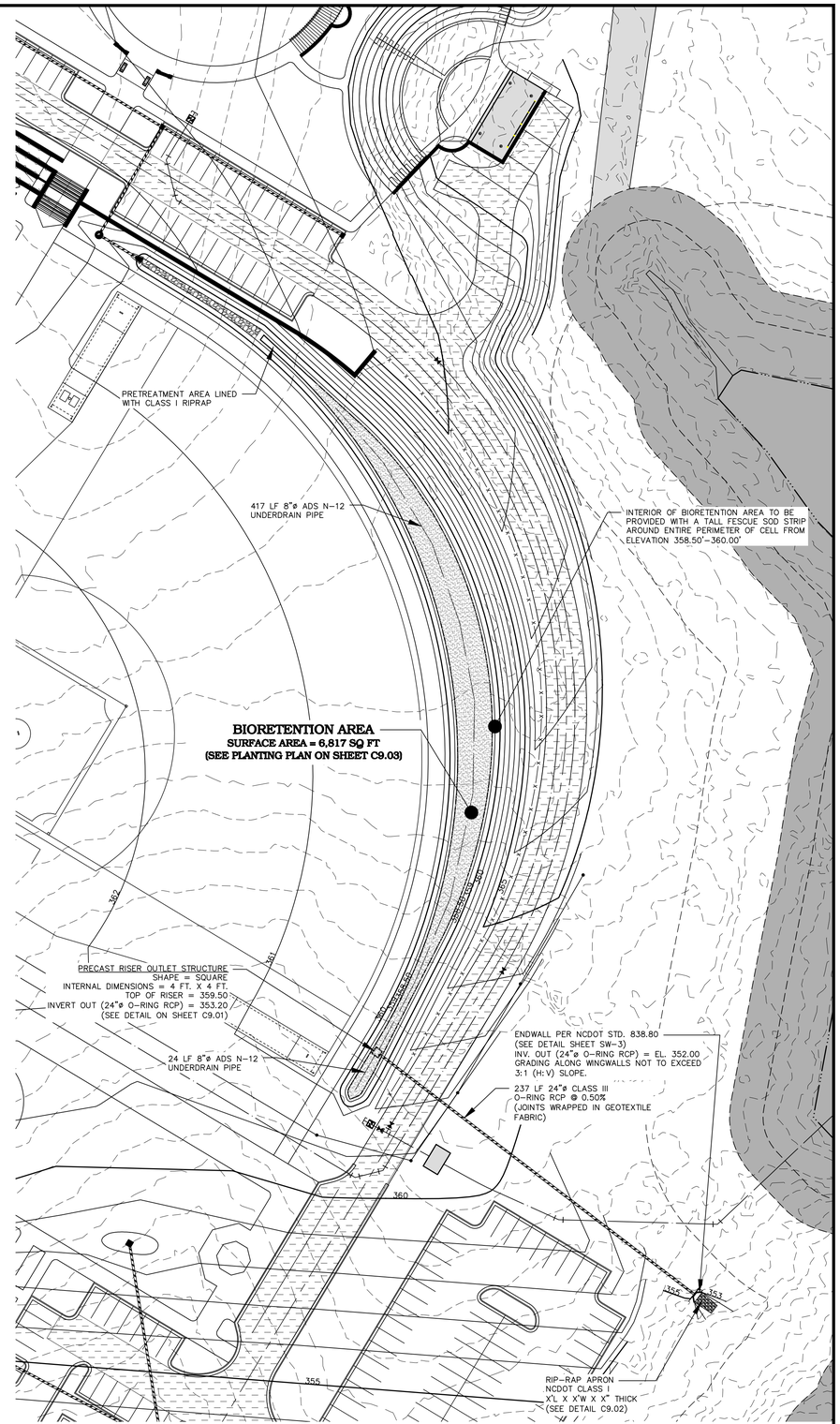
BERM SOIL AND COMPACTION SPECIFICATIONS PLACEHOLDER

OUTLET STRUCTURE MATERIAL SPECIFICATIONS

1. THE 24"Ø RCP OUTLET BARREL SHALL BE CLASS III RCP, MODIFIED BELL AND SPIGOT, MEETING THE REQUIREMENTS OF ASTM C76-LATEST. THE PIPES SHALL HAVE CONFINED O-RING RUBBER GASKET JOINTS MEETING ASTM C-443-LATEST. THE PIPE JOINTS SHALL BE TYPE R-4
2. THE STRUCTURAL DESIGN FOR THE 4' X 4' (INTERNAL DIMENSIONS) RISER BOX WITH EXTENDED BASE SHALL BE BY OTHERS. PRIOR TO ORDERING THE STRUCTURES, THE CONTRACTOR SHALL PROVIDE, TO THE DESIGN ENGINEER FOR REVIEW, SHOP DRAWINGS AND SUPPORTING STRUCTURAL CALCULATIONS SEALED BY A P.E. REGISTERED IN NORTH CAROLINA DEMONSTRATING THE PERTINENT VERTICAL LOADS ARE SUPPORTED BY THE CONCRETE RISER STRUCTURE.
3. THE RISER BOX OUTLET STRUCTURE SHALL BE PROVIDED WITH STEPS 16" ON CENTER. STEPS SHALL BE PROVIDED ON THE INNER WALL OF THE RISER BOX. STEPS SHALL BE IN ACCORDANCE WITH NCDOT STD. 840.66. PLEASE REFER TO SHEET C9.01 FOR LOCATION OF THE RISER STEPS. NOTE THE STEPS SHALL LINE UP WITH THE ACCESS HATCH OF THE TRASH RACK.
5. THE CONCRETE ANTI-FLOTATION BLOCK SHALL BE CAST-IN-PLACE. STEEL REINFORCEMENT AND CONNECTION TO THE RISER SHALL BE PROVIDED IN ACCORDANCE WITH THE DETAIL ON SHEET C9.02. THE CONTRACTOR SHALL ENSURE THE WEIGHT OF THE ENTIRE RISER STRUCTURE IS GREATER THAN OR EQUAL TO XX,XXX LBS. IN LIEU OF CAST-IN-PLACE, THE CONTRACTOR MAY OPT FOR A PRECAST ANTI-FLOTATION BLOCK. SHOP DRAWINGS FOR THE PRECAST BLOCK SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW. THE PRECAST ANTI-FLOTATION BLOCK SHALL HAVE A SHIPPING WEIGHT OF XX,XXX LBS.
6. THE RISER BOX JOINTS SHALL BE SEALED USING BUTYL RUBBER SEALANT CONFORMING TO ASTM-C990-LATEST. IF NECESSARY, THE CONTRACTOR SHALL INCORPORATE A WATERSTOP INTO THE RISER BOX JOINT TO ENSURE A WATERTIGHT CONNECTION. THE CONTRACTOR SHALL PARGE JOINTS ON BOTH THE INSIDE AND OUTSIDE WITH NON-SHRINK GROUT. JOINT STRAPS SHALL BE PROVIDED PER THE DETAIL ON C9.01.
7. PRIOR TO ORDERING, THE CONTRACTOR SHALL SUBMIT TRASH RACK SHOP DRAWINGS TO THE ENGINEER FOR REVIEW. CONTRACTOR SHALL ENSURE THAT AN ACCESS HATCH IS PROVIDED WITHIN THE TRASH RACK (SEE DETAIL FOR LOCATION) THAT WILL ALLOW FOR FUTURE MAINTENANCE ACCESS. CONTRACTOR SHALL ALSO PROVIDE A CHAIN AND LOCK FOR SECURING THE ACCESS HATCH. NOTE THE ACCESS HATCH SHALL LINE UP WITH THE ACCESS STEPS AFTER INSTALLATION.
8. ALL POURED CONCRETE SHALL MEET THE FOLLOWING SPECIFICATIONS UNLESS OTHERWISE NOTED:
   -MINIMUM 3000 PSI (28 DAY)
   -SLUMP = 3" - 5"
   -ENTRAINED AIR = 5% - 7%

   PLEASE NOTE NO CONCRETE SHALL BE POURED WHEN THE AMBIENT AIR TEMPERATURES ARE EXPECTED TO BE ABOVE 85°F OR BELOW 40°F. CAST-IN-PLACE CONCRETE SHALL BE "WET CURED" AFTER FINISHING FOR A MINIMUM OF 48 HOURS.

   ON-SITE GEOTECHNICAL ENGINEER TO ENSURE AND CERTIFY ALL POURED CONCRETE MEETS THE ABOVE SPECIFICATIONS.
9. GEOTEXTILE FABRIC FOR THE 24"Ø RCP OUTLET BARREL JOINTS SHALL BE MIRAFI 180N OR ENGINEER APPROVED EQUAL (NON-WOVEN FABRIC).



GRAPHIC SCALE
0 20 40 80
1 inch = 40 ft.

N

BIORETENTION AREA PLAN VIEW
1"=40'

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

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FRAZIER FARM PARK
30% CONSTRUCTION DRAWINGS
11624 LOUISBURG ROAD
ROLESVILLE, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 042637 JESHUA E SHINN NOT FOR CONSTRUCTION

REVISIONS

NO.	DATE

PLAN INFORMATION

PROJECT NO.	202011039
FILENAME	2020110039-SWA
CHECKED BY	JES
DRAWN BY	HDR
SCALE	1" = 40'
DATE	05. 14. 2021

SHEET

STORMWATER CONTROL MEASURE 'A' PLAN VIEW

C9.00

M:\Projects\TownRolesville\2020110039 Frazier Farm Park\04-Production\Water Resources\Prelim Design\Current Drawings\2020110039-SWA.dwg, 5/27/2021 9:54:31 PM, Rock, Heather

BIORETENTION AREA SECTION PLACEHOLDER
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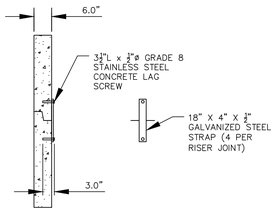


RISER JOINT CONNECTION DETAIL
N.T.S.

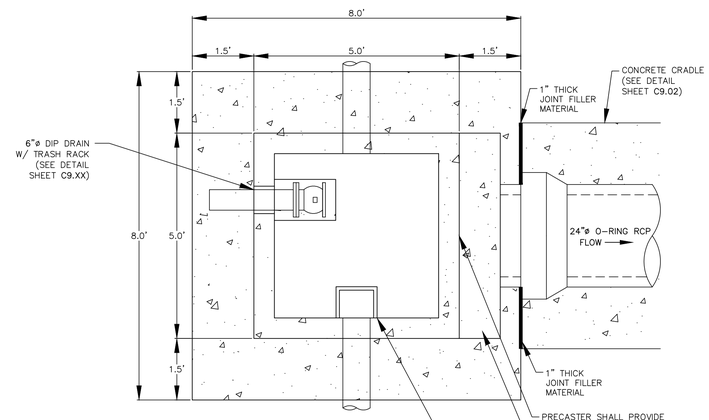
NOTES:

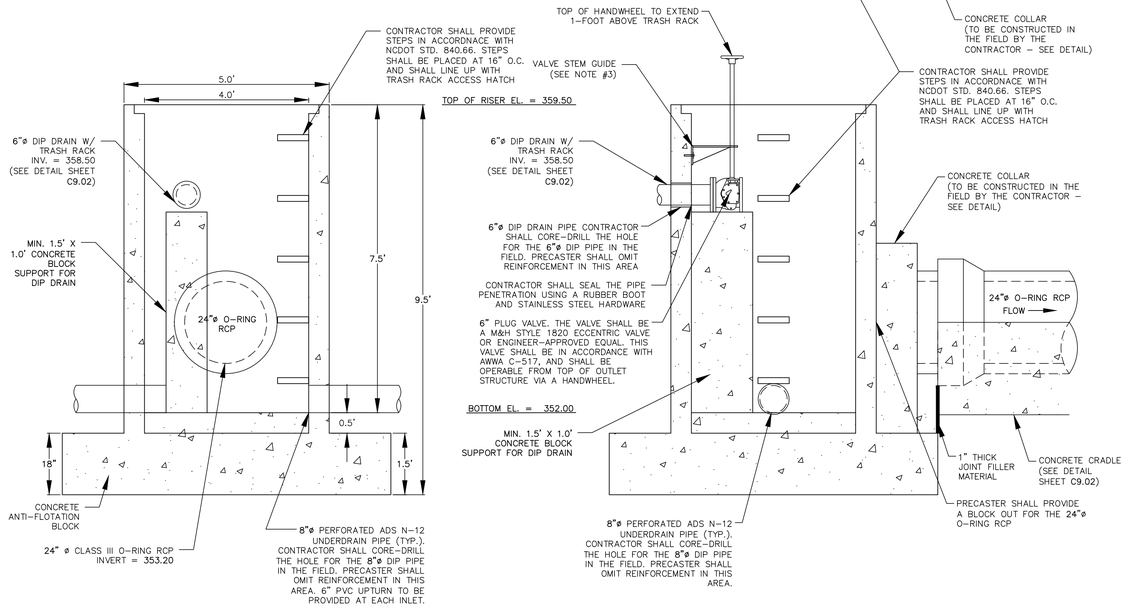
1. CONCRETE ANTI-FLOTATION BLOCK TO BE PROVIDED WITH MINIMUM TEMPERATURE AND SHRINKAGE STEEL REINFORCEMENT.

2. TRASH RACKS NOT SHOWN FOR CLARITY.

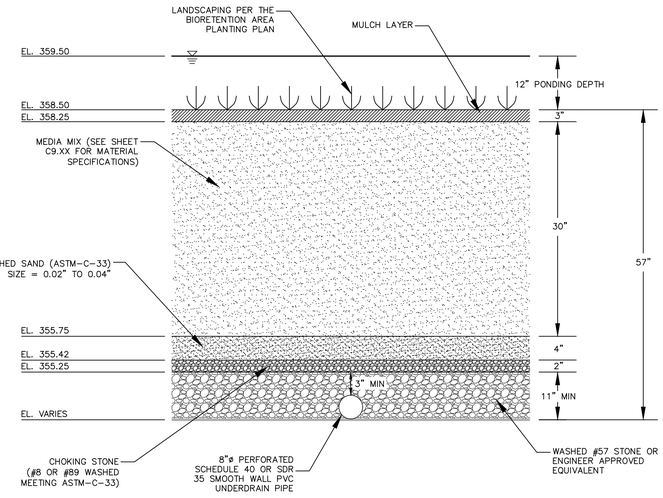
3. THE NUMBER OF GUIDES FOR THE VALVE STEM SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR. THE VALVE STEM MUST BE OPERABLE FROM THE TOP OF THE RISER VIA THE HANDWHEEL WITH AN INSIGNIFICANT AMOUNT OF PLAY IN THE VALVE STEM.

4. CONTRACTOR SHALL PROVIDE A JOINT IN THE OUTLET BARREL NO MORE THAN 5-FT FROM THE RISER.

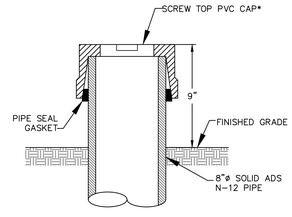




PERMANENT OUTLET STRUCTURE DETAILS
N.T.S.



BIORETENTION AREA SECTION
N.T.S.



*DETAIL PROVIDED AS SCHEMATIC SCREW TOP P.V.C. WELL CAP ONLY

EACH OBSERVATION WELL/CLEANOUT SHALL INCLUDE THE FOLLOWING:

1. CLEANOUTS TO EXTEND TO EXTEND 9" ABOVE FINISHED GRADE (TO PONDING DEPTH 504.25').

2. FOR AN UNDERGROUND OBSERVATION WELL/CLEANOUT, PROVIDE A TUBE MADE OF NON-CORROSIVE MATERIAL, SCHEDULE 40 OR EQUAL, AT LEAST THREE FEET LONG WITH AN INSIDE DIAMETER OF AT LEAST 8 INCHES.

3. THE TUBE SHALL HAVE A FACTORY ATTACHED CAST IRON OR HIGH IMPACT PLASTIC COLLAR WITH RIBS TO PREVENT ROTATION WHEN REMOVING SCREW TOP LID. THE SCREW TOP LID SHALL BE CAST IRON OR HIGH IMPACT PLASTIC THAT WILL WITHSTAND ULTRAVIOLET RAYS.

OBSERVATION WELL/CLEANOUT DETAIL
N.T.S.

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

McADAMS
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FRAZIER FARM PARK
30% CONSTRUCTION DRAWINGS
11624 LOUISBURG ROAD
ROLESVILLE, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 042637 JOSHUA E. SHIMP — NOT FOR CONSTRUCTION

REVISIONS

NO. DATE

PLAN INFORMATION

PROJECT NO.	202011039
FILENAME	2020110039-SWA
CHECKED BY	JES
DRAWN BY	HDR
SCALE	NTS
DATE	05. 14. 2021

SHEET

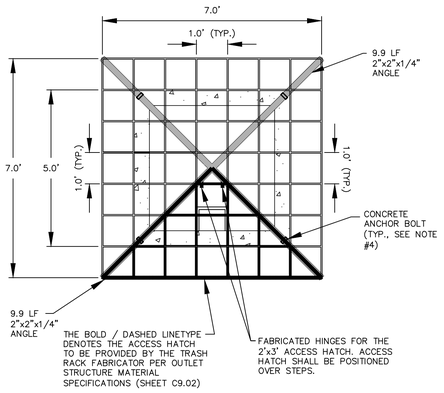
STORMWATER CONTROL MEASURE 'A' DETAILS

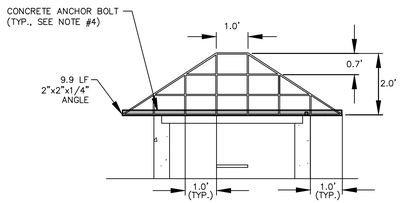
C9.01

M:\Projects\TownRolesville\2020110039 Frazier Farm Park\04-Production\Water Resources\Prelim Design\Current Drawings\2020110039-SWA.dwg, 5/27/2021 9:54:46 PM, Rosa, Heather

NOTES:

1. ALL REBAR TO BE #4 REBAR.
2. ALL REBAR AND ANGLES TO BE HOT-DIPPED GALVANIZED AND BE PROVIDED WITH AN EPOXY COATING.
3. THE HOT-DIPPED, GALVANIZED 2"x2"x1/4" ANGLES SHALL BE WELDED TO THE REBAR TRASH RACK. ONCE WELDED, THE ENTIRE ASSEMBLY SHALL BE PLACED ONTO THE RISER WITH ANGLES SITTING DIRECTLY ON TOP OF RISER.
4. CONTRACTOR SHALL ANCHOR THE TRASH RACK TO MANHOLE WALL WITH FOUR 4"x1/4" CONCRETE ANCHOR BOLTS THROUGH ANGLES.
5. CONTRACTOR SHALL OMIT OR ADJUST REBAR AS NECESSARY TO ALLOW FOR CONCRETE COLLAR.
6. ACCESS HATCH SHALL ALIGN WITH STEPS IN RISER.

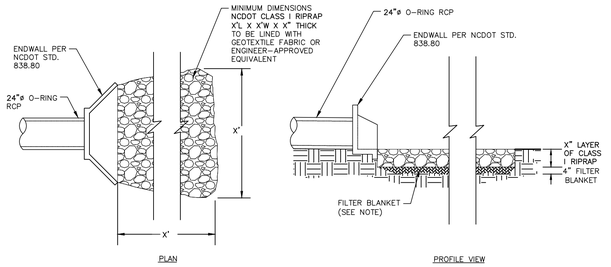




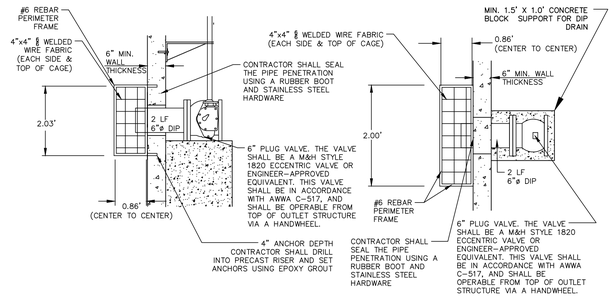
TRASH RACK DETAIL
N.T.S.

NOTES:

1. A FILTER BLANKET IS TO BE INSTALLED BETWEEN THE RIPRAP AND SOIL FOUNDATION. THE FILTER BLANKET WILL CONSIST OF A MINIMUM 4" THICK LAYER OF STONE (NCDOT #57) UNDERLAIN WITH MIRAFI FILTER WEAVE 700 OR ENGINEER-APPROVED EQUIVALENT.
2. RIPRAP TO EXTEND TO TOP OF CHANNEL WITH 2:1 SIDE SLOPES THROUGHOUT THE EXTENT OF CHANNEL.



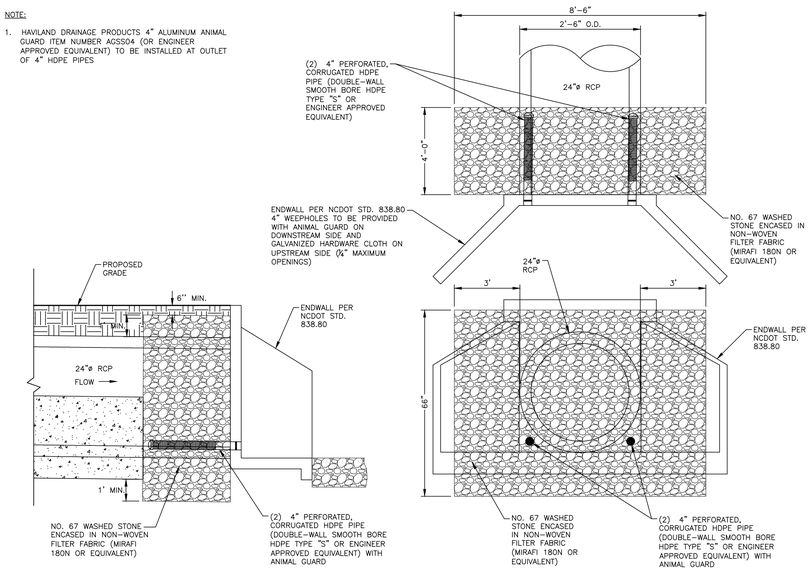
OUTLET BARREL VELOCITY DISSIPATER
N.T.S.



6"ø EMERGENCY DIP DRAIN TRASH RACK DETAILS
N.T.S.

NOTE:

1. HAVILAND DRAINAGE PRODUCTS 4" ALUMINUM ANIMAL GUARD ITEM NUMBER AGSS04 (OR ENGINEER APPROVED EQUIVALENT) TO BE INSTALLED AT OUTLET OF 4" HDPE PIPES



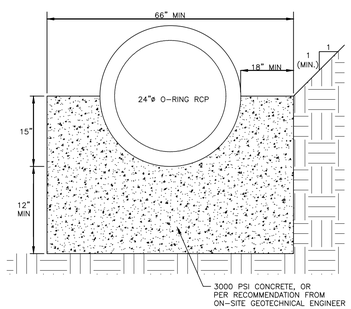
24" SPILLWAY FILTER DETAIL
N.T.S.

NOTE:

1. AS AN ALTERNATE TO A CONCRETE CRADLE UNDER THE BARREL PIPE (THIS DETAIL), THE CONTRACTOR MAY CHOOSE TO ELIMINATE THE CONCRETE CRADLE AND USE COMPACTED BACKFILL IF THE ON-SITE GEOTECHNICAL ENGINEER WILL PROVIDE A NC PE SEALED LETTER CERTIFYING THAT THE COMPACTION UNDER, AROUND, AND ABOVE THE BARREL MEETS THE SPECIFICATIONS OF THE EMBANKMENT COMPACTION REQUIREMENTS AND MOISTURE CONTENT. THIS CERTIFICATION LETTER MUST BE SUBMITTED TO THE DESIGN ENGINEER BEFORE AS-BUILT CERTIFICATION OF THE FACILITY. THIS SEPARATE CERTIFICATION MUST BE SPECIFIC TO THE BARREL PIPE FOR THE FACILITY, AND MUST CLEARLY STATE THAT ALL SOIL MATERIAL UNDER, AROUND, AND ABOVE THE BARREL PIPE MEETS THE BERM MATERIAL SPECIFICATIONS. THIS CERTIFICATION IS TO INCLUDE REFERENCE TO BOTH MATERIAL AND COMPACTION, AND MUST STATE THAT ALL MATERIALS UNDER, AROUND, AND ABOVE THE BARREL HAVE BEEN COMPACTED PER THE BERM MATERIAL SPECIFICATIONS (AT LEAST 95% OF MAXIMUM DRY DENSITY USING ASTM D698 STANDARD PROCTOR) WITH NO VOID SPACES PRESENT. THE CONTRACTORS INTENT TO UTILIZE THIS ALTERNATIVE MUST BE STATED PRIOR TO CONSTRUCTION TAKING PLACE. THIS CONTRACTORS CERTIFICATION MUST BE PRESENTED TO THE DESIGN ENGINEER BEFORE AN AS-BUILT CERTIFICATION CAN BE ISSUED FOR THIS FACILITY.
2. CONTRACTOR SHALL PROVIDE A JOINT IN THE OUTLET BARREL NO MORE THAN 5-FT FROM THE RISER.

BARREL PIPE CONCRETE CRADLE CONSTRUCTION SEQUENCE

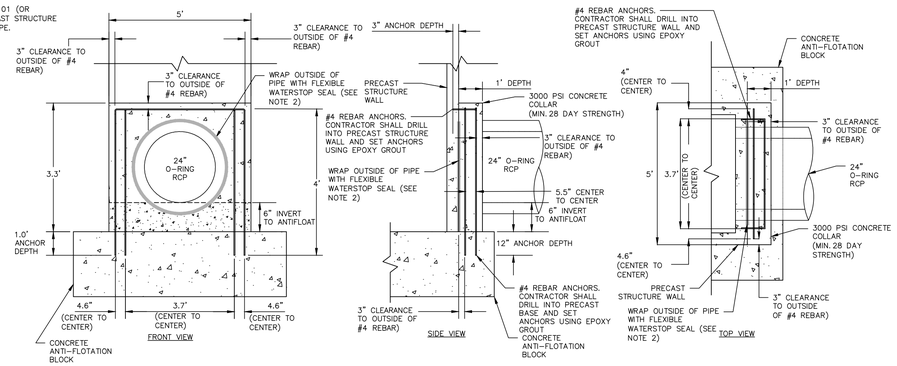
1. IF OPTION A IS CHOSEN FROM NOTE 9 OF THE OUTLET STRUCTURE MATERIAL SPECIFICATIONS, THEN BRING GRADE OF DAM EMBANKMENT TO SPRINGLINE OF PIPE ELEVATION. IF OPTION B IS CHOSEN FROM NOTE 9 OF THE OUTLET STRUCTURE MATERIAL SPECIFICATIONS, THEN CONSTRUCT FORMWORK FOR CONCRETE CRADLE ON EXISTING GRADE.
2. IF OPTION A IS CHOSEN FROM NOTE 9 OF THE OUTLET STRUCTURE MATERIAL SPECIFICATIONS, THEN EXCAVATE TRENCH FOR CRADLE AND BARREL PER DIMENSIONS ON DRAWINGS. IF OPTION B IS CHOSEN FROM NOTE 9 OF THE OUTLET STRUCTURE MATERIAL SPECIFICATIONS, PROCEED TO STEP 3 BELOW.
3. PLACE BARREL PIPE ON CONCRETE BLOCKS TO GRADE. AT THIS STEP, CONTRACTOR SHALL WRAP A DOUBLE LAYER OF NON-WOVEN GEOTEXTILE FABRIC AROUND EACH JOINT OF THE **24"ø** O-RING RCP BARREL IN 2' WIDE STRIPS CENTERED ON JOINT.
4. PLACE CONCRETE FOR CRADLE FOR EACH SECTION FROM ONE SIDE OF THE TRENCH. ALLOW CONCRETE TO FILL ENTIRE AREA UNDER PIPE AND PIPE HAUNCHES AS TO LEAVE NO VOIDS UNDER THE PIPE BEFORE PLACING CONCRETE ON THE OPPOSITE SIDE OF THE TRENCH. PLACE ENTIRE CRADLE AS ONE LIFT (VERTICALLY) PER DRAWINGS.
5. CONCRETE CRADLE MAY BE ELIMINATED PER RECOMMENDATION FROM THE ON-SITE GEOTECHNICAL ENGINEER. ANY DEVIATION FROM THIS DETAIL SHALL BE SUBMITTED TO AND REVIEWED BY THE DESIGN ENGINEER PRIOR TO IMPLEMENTATION. IF THE CRADLE IS ELIMINATED, THEN A LETTER FROM AN NC PE CERTIFYING THAT ALL SOIL MATERIAL UNDER, AROUND, AND ABOVE THE BARREL PIPE MEETS THE BERM MATERIAL SPECIFICATIONS IS REQUIRED.
6. ALLOW CRADLE TO CURE FOR A MINIMUM OF 7 DAYS BEFORE ANY VIBRATING COMPACTION EQUIPMENT IS USED IN THE VICINITY OF THE BARREL PIPE.
7. TRENCH TO BE BACKFILLED IN 5" LIFTS WHEN COMPACTION IS BY HAND. BACKFILL IS IN 8" LIFTS WHEN CONDUCTED BY MACHINE, MINIMUM OF 2 FEET COVER MUST BE PRESENT ON **24"ø** RCP BEFORE DRIVING OVER WITH HEAVY EQUIPMENT.



24" CONCRETE CRADLE DETAIL
N.T.S.

NOTES:

1. ALL REBAR TO BE #4 REBAR.
2. WRAP OUTSIDE OF PIPE WITH VOLCLAY WATERSTOP-RX® 101 (OR PRE-APPROVED EQUIVALENT) AT THE FACE OF THE PRECAST STRUCTURE WALL. PROVIDE 6" OVER LAP ON THE BOTTOM OF THE PIPE.



24"ø CONCRETE COLLAR DETAIL
N.T.S.

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PROJECT NO.	202011039
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CHECKED BY	JES
DRAWN BY	HDR
SCALE	NTS
DATE	05. 28. 2021

SHEET

STORMWATER CONTROL MEASURE 'A' DETAILS

C9.02

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STORMWATER CONTROL MEASURE 'A' LANDSCAPE SPECIFICATIONS

LEGEND

QTY.	HATCH

SHALLOW WATER

6,817 SF HERBACEOUS PLANTINGS BASED ON RECOMMENDATIONS PER NC DEQ MDC MANUAL

TEMPORARY SEEDING SCHEDULE

SEEDING DATE	SEEDING MIXTURE	APPLICATION RATE
JAN 1 - MAY 1	RYE (GRAIN)	120 LBS/AC
MAY 1 - AUG 15	GERMAN MILLET	40 LBS/AC
AUG 15 - DEC 30	RYE (GRAIN)	120 LBS/AC

SOIL AMENDMENTS
FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/AC GROUND AGRICULTURE LIMESTONE AND 750 LB/AC 10-10-10 FERTILIZER (FROM AUG 15 - DEC 30, INCREASE 10-10-10 FERTILIZER TO 1000 LB/AC).

MULCH
APPLY 4000 LB/AC STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE
JAN 1 - AUG 15: REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REFERTILIZE, AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

AUG 15 - DEC 30: REPAIR AND REFERTILIZE DAMAGED AREAS IMMEDIATELY. TOP DRESS WITH 50 LB/AC OF NITROGEN IN MARCH. IF IT IS NECESSARY TO EXTEND TEMPORARY COVER BEYOND JUNE 15, OVERSEED WITH 50 LB/AC KOBE LESPEDEZA IN LATE FEBRUARY OR EARLY MARCH.

NOTE: USE THE TEMPORARY SEEDING SCHEDULE ONLY WHEN DATE IS NOT CORRECT TO USE THE PERMANENT SEEDING SCHEDULE.

PERMANENT SEEDING SCHEDULE (DAM EMBANKMENTS)

SEEDING DATE	SEEDING MIXTURE	APPLICATION RATE
AUG 25 - OCT (BEST) FEB - APR 15 (POSSIBLE)	TALL FESCUE	200 LBS/AC

SOIL AMENDMENTS
FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 4,000 LB/AC GROUND AGRICULTURE LIMESTONE AND 1000 LB/AC 10-10-10 FERTILIZER.

MULCH
APPLY 4000 LB/AC STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE
INSPECT AND REPAIR MULCH FREQUENTLY. REFERTILIZE IN LATE WINTER OF THE FOLLOWING YEAR; USE SOIL TESTS OR APPLY 150 LB/AC 10-10-10 FERTLIZER. MOW REGULARLY TO A HEIGHT OF 2-4 INCHES.

NOTE: PERMANENT SEEDING SCHEDULE IS FOR SLOPES OF THE BASIN AND TOP OF BERM.

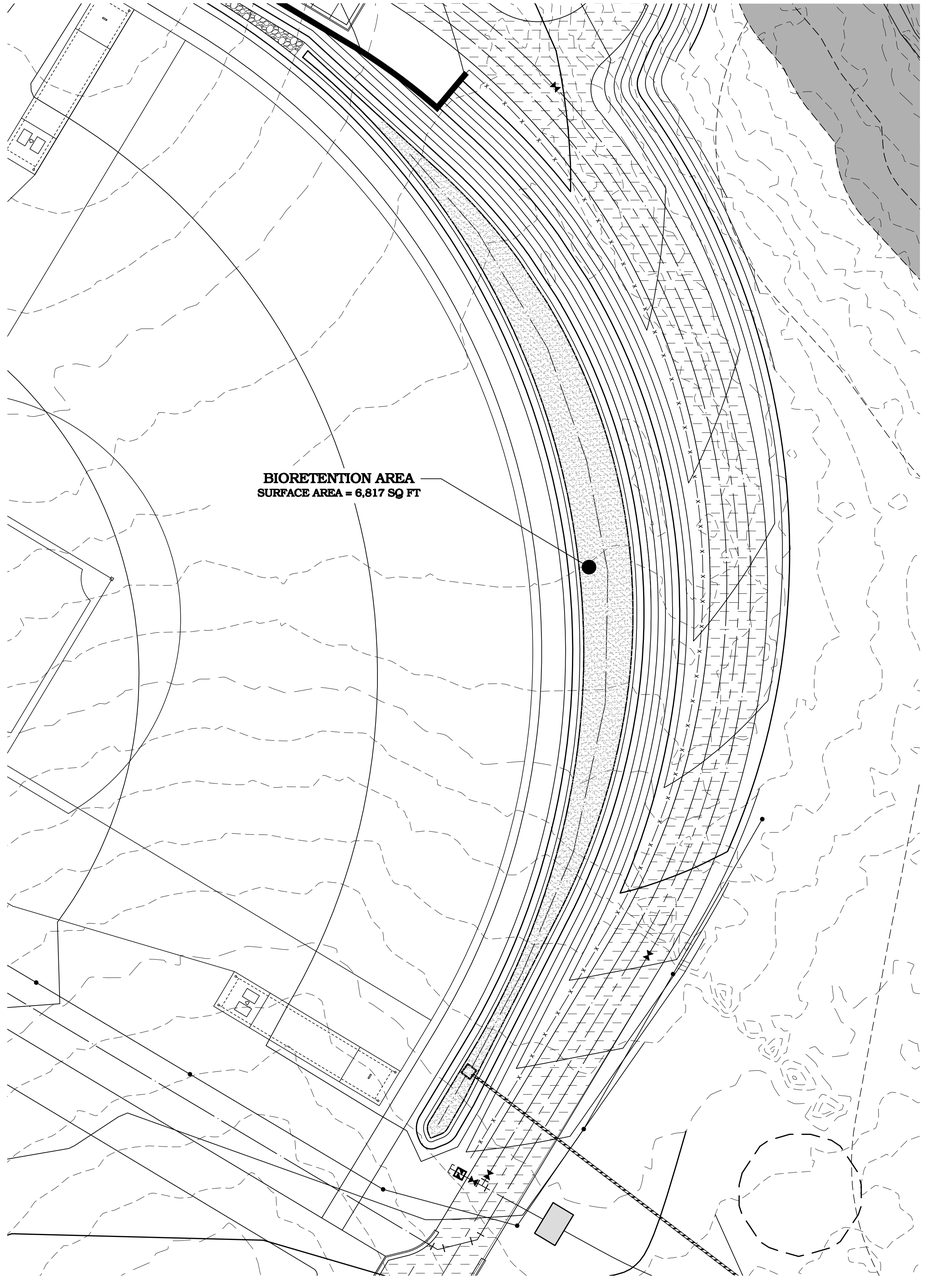
PLANTING INSTRUCTIONS

PLANTING TECHNIQUES
A. INSURE THAT ROOTS, ONCE REMOVED FROM POT, ARE STRAIGHTENED AND FACE DOWNWARD.
B. CREATE PLANTING AREA FOR EACH PLANT AND EXCAVATE PIT.
C. PLACE PLANTS IN PIT INSURING ROOTS ARE FACING COMPLETELY DOWNWARD.
D. HEEL IN SOIL AROUND PLANT AND PROCEED TO NEXT PLANTING LOCATION.
E. NEWLY PLANTED PLANTS NEED TO BE FASTENED TO THE SUBSTRATE FOR THE ESTABLISHMENT OF NEW ROOTS.
F. ROOTS SHALL BE SPREAD IN THEIR NORMAL POSITION. ALL BROKEN OR FRAYED ROOTS HALL BE CUT OFF CLEANLY.
G. THE DIAMETER OF THE PITS FOR ALL VEGETATIVE STOCK SHALL BE AT LEAST THREE TIMES THE DIAMETER OF THE ROOT MASS. PLANT PIT WALL SHALL BE SCARIFIED PRIOR TO PLANT INSTALLATION.
H. SET THE PLANTS UPRIGHT, IN THE CENTER OF THE PIT. THE BOTTOM OF THE ROOT MASS SHOULD BE RESTING ON UNDISTURBED SOIL.
I. PLACE THE BACKFILL AROUND THE BASE AND SIDES OF THE ROOT MASS, AND WORK EACH LAYER TO SETTLE BACKFILL AND TO ELIMINATE VOIDS AND AIR POCKETS. WHEN PIT IS APPROXIMATELY 2/3 FULL, WATER THOROUGHLY BEFORE PLACING REMAINDER OF THE BACKFILL. WATER AGAIN AFTER PLACING FINAL LAYER OF BACKFILL.
J. BROKEN OR DAMAGED PARTS WILL BE CUT BACK TO UNDAMAGED TISSUE, LEAVING AS MUCH GREEN BASAL TISSUE AS POSSIBLE ABOVE THE ROOTS. IF MORE THAN FIFTY PERCENT (50%) OF THE PLANT IS DAMAGED THEN CONTRACTOR SHALL REPLACE THE PLANT.

CONTAINER STOCK
A. STOCK SHALL HAVE BEEN GROWN IN A CONTAINER LONG ENOUGH FOR THE ROOT SYSTEM TO HAVE DEVELOPED SUFFICIENTLY TO HOLD ITS SOIL TOGETHER ONCE REMOVED FROM THE CONTAINER.
B. CONTAINER PLANTS WILL NEED TO BE WATERED REGULARLY AND PLACED IN SHADY CONDITIONS UNTIL PLANTING OCCURS.

PLANT LOCATIONS
A. NEW PLANTINGS SHALL BE LOCATED WHERE SHOWN ON PLAN EXCEPT WHERE CHANGES HAVE BEEN MADE IN PROPOSED CONSTRUCTION.
B. NECESSARY ADJUSTMENTS SHALL BE MADE ONLY AFTER APPROVAL BY THE OWNER OR THE OWNER'S REPRESENTATIVE.

WATER
WATER SHALL BE POTABLE AND SHALL NOT CONTAIN ELEMENTS TOXIC TO PLANT LIFE.



BIORETENTION AREA LANDSCAPE PLAN
1"=30'

GRAPHIC SCALE
0 15 30 60
1 inch = 30 ft.

N

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NORTH CAROLINA PROFESSIONAL LANDSCAPE ARCHITECT SEAL 042637 ENGINEER JOSHUA E. SHINN NOT FOR CONSTRUCTION

REVISIONS

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PLAN INFORMATION

PROJECT NO.	202011039
FILENAME	2020110039-SWA
CHECKED BY	JES
DRAWN BY	HDR
SCALE	1" = 30'
DATE	05. 14. 2021

SHEET

STORMWATER CONTROL MEASURE 'A' LANDSCAPE PLAN

C9.03

M:\Projects\TownRolesville\2020110039 Frazier Farm Park\04-Production\Water Resources\Prelim Design\Current Drawings\2020110039-SWA.dwg, 5/27/2021 9:55:19 PM, Rosa, Heather

STORMWATER CONTROL MEASURE 'B' CONSTRUCTION SPECIFICATIONS

GENERAL NOTES

1. PRIOR TO CONSTRUCTION, ANY DISCREPANCIES IN THE PLANS AND NOTES SHALL BE BROUGHT TO THE DESIGN ENGINEER'S ATTENTION IMMEDIATELY.
2. THE PROJECT WILL MEET ALL OF THE REQUIREMENTS RELATIVE TO BEST MANAGEMENT PRACTICES AND ENGINEERED STORMWATER CONTROL STRUCTURES AS OUTLINED IN THE TOWN OF ROLESVILLE LAND DEVELOPMENT ORDINANCE.
3. THE FINAL CERTIFICATION FOR THIS FACILITY WILL INCLUDE A CERTIFICATION BY THE ON-SITE GEOTECHNICAL ENGINEER THAT THE PROJECT WAS CONSTRUCTED PER THE APPROVED PLANS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE ON-SITE GEOTECHNICAL ENGINEER FOR OBSERVATION AND TESTING SUCH THAT THE ON-SITE GEOTECHNICAL ENGINEER CAN CERTIFY THE CONSTRUCTION OF THE DAM EMBANKMENT AND SPILLWAY. THIS CERTIFICATION MUST ADDRESS THE TESTING FOR MATERIALS AND COMPACTION OF THE DAM EMBANKMENT AND SPILLWAY.
4. ALL CONSTRUCTION ACTIVITY RELATED TO THE PROPOSED STORMWATER CONTROL MEASURE SHALL BE PER THE DETAILS AND SPECIFICATIONS SHOWN IN THESE DRAWINGS. SOILS, COMPACTION, AND OTHER MISCELLANEOUS DETAILS AND SPECIFICATIONS MAY BE MODIFIED PER THE RECOMMENDATIONS OF THE ON-SITE GEOTECHNICAL ENGINEER. HOWEVER, PRIOR TO IMPLEMENTATION, THE DESIGN ENGINEER SHALL BE NOTIFIED OF ANY DEVIATION FROM THESE DESIGN DRAWINGS, INCLUDING SHOP DRAWINGS FOR ANY PROPOSED MODIFICATION.
5. DURING THE INITIAL STAGES OF CONSTRUCTION, THE STORMWATER CONTROL MEASURE MAY BE USED AS A SEDIMENT BASIN FOR EROSION CONTROL PURPOSES. IF SO, THE CONTRACTOR SHALL FOLLOW THE GENERAL CONSTRUCTION SEQUENCE BELOW:
   A. THE CONTRACTOR SHALL CONSTRUCT THE ENTIRE FACILITY (PERMANENT OUTLET STRUCTURE, DAM, ETC.) WITH THE EXCEPTION OF THE INTERIOR FINE GRADING FOR THE FACILITY. THE INTERIOR FINE GRADING WILL BE CONSTRUCTED ONCE THE EROSION CONTROL PHASE IS COMPLETE.
   B. THE TEMPORARY DRAW DOWN RISER (OR SKIMMER) SHALL BE CONNECTED TO THE PERMANENT 6"Ø DIP DRAIN PIPE.
   C. ONCE THE UPSTREAM DRAINAGE AREA IS STABILIZED AND THE EROSION CONTROL INSPECTOR APPROVES THE REMOVAL OF THE SEDIMENT BASIN, THE CONTRACTOR SHALL REMOVE THE TEMPORARY DRAW DOWN RISER (OR SKIMMER) AND CLEAN OUT THE BASIN. ALL SEDIMENT, TRASH, ETC. SHALL BE DISPOSED OF PROPERLY (I.E. - PLACED IN A LANDFILL) AND NOT STOCKPILED IN AN AREA WHERE WATER QUALITY COULD BE ADVERSELY AFFECTED.
   D. ONCE THE BASIN IS CLEANED OUT, AND ALL EROSION CONTROL DEVICES REMOVED, THE CONTRACTOR SHALL CONSTRUCT THE INTERIOR GRADING SHOWN ON THIS SHEET.
   E. ONCE THE GRADING IS COMPLETE, THE CONTRACTOR SHALL REQUEST AN ON-SITE INSPECTION AND AN AS-BUILT SURVEY PRIOR TO INSTALLATION OF THE STORMWATER CONTROL MEASURE PLANTS. IF THE CONTRACTOR PLANTS THE PROPOSED VEGETATION PRIOR TO AN AS-BUILT SURVEY (AND SUBSEQUENT APPROVAL), ANY CHANGES TO THE GRADING / RE-PLANTING OF PLANTS WILL BE AT THE CONTRACTOR'S EXPENSE.
   F. ONCE THE ENGINEER HAS APPROVED THE AS-BUILT GRADING, THE CONTRACTOR SHALL PLANT THE PROPOSED STORMWATER CONTROL MEASURE PLANTS SHOWN ON THE LANDSCAPE PLAN FOR THE FACILITY. AFTER COMPLETION OF THE PLANTING, THE LANDSCAPE CONTRACTOR SHALL PROVIDE A LETTER TO THE ENGINEER CERTIFYING THAT THE PLANTS HAVE BEEN INSTALLED PER THE APPROVED STORMWATER CONTROL MEASURE PLANTING PLAN.
6. ALL OSHA REQUIREMENTS FOR EXCAVATIONS (SHORING, DEPTH, ETC.) ARE THE RESPONSIBILITY OF THE CONTRACTOR. IF REQUIRED, THE CONTRACTOR SHALL PROVIDE AN EXCAVATION PLAN TO BE SEALED BY A NC P.E. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE IF AN EXCAVATION PLAN IS REQUIRED. THE JOHN R. McADAMS COMPANY ASSUMES NO RESPONSIBILITY FOR ANY EXCAVATION DESIGN RELATED TO SAFETY OR OSHA REQUIREMENTS.
7. ON-SITE GEOTECHNICAL ENGINEER TO DETERMINE IF IN-SITU SOILS ENCOUNTERED WOULD MAINTAIN A STORMWATER CONTROL MEASURE PERMANENT POOL AT DESIGN ELEVATION. IF HIGHLY PERMEABLE SOILS ARE ENCOUNTERED THAT WOULD NOT MAINTAIN THE PERMANENT POOL ELEVATION AS DESIGNED, A CLAY LINER MAY BE REQUIRED TO MAINTAIN A PERMANENT POOL OF WATER IN THE STORMWATER CONTROL MEASURE. FINAL DETERMINATION IF A CLAY LINER IS NEEDED SHALL BE THE RESPONSIBILITY OF THE ON-SITE GEOTECHNICAL ENGINEER. UPON DETERMINATION OF HIGHLY PERMEABLE SOIL CONDITIONS, ON-SITE GEOTECHNICAL ENGINEER WILL INFORM THE DESIGN ENGINEER AND RECOMMEND LINER SPECIFICATIONS.
8. IT IS ANTICIPATED THAT DEWATERING WILL BE NECESSARY IN THE EXCAVATION AREAS (E.G. - EMBANKMENT SUB GRADE, INTERIOR PORTIONS OF THE STORMWATER CONTROL MEASURE, KEY TRENCH, ETC.). THEREFORE, THE CONTRACTOR SHALL FURNISH, INSTALL, OPERATE, AND MAINTAIN ANY PUMPING EQUIPMENT, ETC. NEEDED FOR REMOVAL OF WATER FROM VARIOUS PARTS OF THE STORMWATER CONTROL MEASURE SITE. DURING PLACEMENT OF FILL WITHIN THESE AREAS, THE CONTRACTOR SHALL KEEP THE WATER LEVEL BELOW THE BOTTOM OF THE EXCAVATION / CONSTRUCTION AREAS. THE MANNER IN WHICH THE WATER IS REMOVED SHALL BE SUCH THAT THE EXCAVATION BOTTOM AND SIDE SLOPES ARE STABLE, WITH NO SEDIMENT DISCHARGED FROM THE SITE (I.E. PUMPED WATER MAY NEED TO BE DIRECTED TO AN APPROVED EROSION CONTROL DEVICE SUCH AS A DIRT BAG (ACF ENVIRONMENTAL), OR ENGINEER APPROVED EQUIVALENT, PRIOR TO DISCHARGE).
9. THE GRADES SHOWN ON THIS PLAN ARE FINISHED GRADES. IF THE EXISTING SOIL LAYER AFTER CONSTRUCTION / COMPACTION IS NOT DETERMINED SUITABLE BY A LANDSCAPE PROFESSIONAL FOR THE WET POND PLANTINGS, THEN THE CONTRACTOR SHALL AMEND THE PLANTING AREA OF THE WET POND AS DIRECTED BY A LANDSCAPE PROFESSIONAL.
10. PRIOR TO TOPSOIL INSTALLATION, THE CONTRACTOR SHALL SCARIFY THE TOP 2"-3" OF THE BERM SECTION TO PROMOTE BONDING OF THE TOPSOIL WITH THE COMPACTED FILL. THE TOPSOIL DEPTH SHALL RANGE FROM 3"-4" ON THE DAM EMBANKMENT AND AQUATIC SHELF. PLEASE NOTE THE TOPSOIL SHALL BE AMENDED, AS DIRECTED BY A LANDSCAPE PROFESSIONAL, PRIOR TO INSTALLATION ON THE EMBANKMENT AND AQUATIC SHELF.
11. THE CONTRACTOR SHALL REFER TO THE LANDSCAPE PLAN FOR THE PERMANENT PLANTING PLAN/SCHEDULE FOR THIS FACILITY. CONTRACTOR SHALL COORDINATE WITH A LANDSCAPE PROFESSIONAL REGARDING SCHEDULING FOR PLANT INSTALLATION. PLEASE NOTE THAT NO TREES/SHRUBS OF ANY TYPE MAY BE PLANTED ON THE PROPOSED DAM EMBANKMENT (FILL AREAS).

OUTLET STRUCTURE MATERIAL SPECIFICATIONS

1. THE 24"Ø RCP OUTLET BARREL SHALL BE CLASS III RCP, MODIFIED BELL AND SPIGOT, MEETING THE REQUIREMENTS OF ASTM C76-LATEST. THE PIPES SHALL HAVE CONFINED O-RING RUBBER GASKET JOINTS MEETING ASTM C-443-LATEST. THE PIPE JOINTS SHALL BE TYPE R-4.
2. THE STRUCTURAL DESIGN FOR THE 4' X 4' (INTERNAL DIMENSIONS) RISER BOX WITH EXTENDED BASE SHALL BE BY OTHERS. PRIOR TO ORDERING THE STRUCTURES, THE CONTRACTOR SHALL PROVIDE, TO THE DESIGN ENGINEER FOR REVIEW, SHOP DRAWINGS AND SUPPORTING STRUCTURAL CALCULATIONS SEALED BY A P.E. REGISTERED IN NORTH CAROLINA DEMONSTRATING THE PERTINENT VERTICAL LOADS ARE SUPPORTED BY THE CONCRETE RISER STRUCTURE.
3. THE RISER BOX OUTLET STRUCTURE SHALL BE PROVIDED WITH STEPS 16" ON CENTER. STEPS SHALL BE PROVIDED ON THE INNER WALL OF THE RISER BOX. STEPS SHALL BE IN ACCORDANCE WITH NCDOT STD. 840.66. PLEASE REFER TO SHEET C9.06 FOR LOCATION OF THE RISER STEPS. NOTE THE STEPS SHALL LINE UP WITH THE ACCESS HATCH OF THE TRASH RACK.
4. THE CONCRETE ANTI-FLOTATION BLOCK SHALL BE CAST-IN-PLACE. STEEL REINFORCEMENT AND CONNECTION TO THE RISER SHALL BE PROVIDED IN ACCORDANCE WITH THE DETAIL ON SHEET C9.06. THE CONTRACTOR SHALL ENSURE THE WEIGHT OF THE ENTIRE RISER STRUCTURE IS GREATER THAN OR EQUAL TO XX,XXX LBS. IN LIEU OF CAST-IN-PLACE, THE CONTRACTOR MAY OPT FOR A PRECAST ANTI-FLOTATION BLOCK. SHOP DRAWINGS FOR THE PRECAST BLOCK SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW. THE PRECAST ANTI-FLOTATION BLOCK SHALL HAVE A SHIPPING WEIGHT OF XX,XXX LBS.
5. THE RISER BOX JOINTS SHALL BE SEALED USING BUTYL RUBBER SEALANT CONFORMING TO ASTM-C990-LATEST. IF NECESSARY, THE CONTRACTOR SHALL INCORPORATE A WATERSTOP INTO THE RISER BOX JOINT TO ENSURE A WATERTIGHT CONNECTION. THE CONTRACTOR SHALL PARGE JOINTS ON BOTH THE INSIDE AND OUTSIDE WITH NON-SHRINK GROUT AND INSTALL GALVANIZED STEEL STRAPS PER DETAIL ON SHEET C9.05.
6. PRIOR TO ORDERING, THE CONTRACTOR SHALL SUBMIT TRASH RACK SHOP DRAWINGS TO THE ENGINEER FOR REVIEW. CONTRACTOR SHALL ENSURE THAT AN ACCESS HATCH IS PROVIDED WITHIN THE TRASH RACK (SEE DETAIL FOR LOCATION) THAT WILL ALLOW FOR FUTURE MAINTENANCE ACCESS. CONTRACTOR SHALL ALSO PROVIDE A CHAIN AND LOCK FOR SECURING THE ACCESS HATCH. NOTE THE ACCESS HATCH SHALL LINE UP WITH THE ACCESS STEPS AFTER INSTALLATION.
7. ALL POURED CONCRETE SHALL MEET THE FOLLOWING SPECIFICATIONS UNLESS OTHERWISE NOTED:

   -MINIMUM 3000 PSI (28 DAY)
   -SLUMP = 3" - 5"
   -ENTRAINED AIR = 5% - 7%

   PLEASE NOTE NO CONCRETE SHALL BE POURED WHEN THE AMBIENT AIR TEMPERATURES ARE EXPECTED TO BE ABOVE 85°F OR BELOW 40°F. CAST-IN-PLACE CONCRETE SHALL BE "WET CURED" AFTER FINISHING FOR A MINIMUM OF 48 HOURS.

   ON-SITE GEOTECHNICAL ENGINEER TO ENSURE AND CERTIFY ALL POURED CONCRETE MEETS THE ABOVE SPECIFICATIONS.
8. GEOTEXTILE FABRIC FOR THE 24"Ø RCP OUTLET BARREL JOINTS SHALL BE MIRAFI 180N OR ENGINEER APPROVED EQUAL (NON-WOVEN FABRIC).
9. STORMWATER CONTROL MEASURE EMERGENCY DRAW DOWN IS VIA AN 6"Ø PLUG VALVE. THE VALVE SHALL BE A M&H STYLE 1820 ECCENTRIC VALVE OR APPROVED EQUAL. THIS VALVE IS IN ACCORDANCE WITH AWWA C-517, AND SHALL BE OPERABLE FROM TOP OF OUTLET STRUCTURE VIA A HAND WHEEL (SEE DETAIL SHEET C9.06). THE CONTRACTOR SHALL PROVIDE A REMOVABLE VALVE WRENCH WITH A HAND WHEEL ON TOP FOR OPERATION OF THE 6"Ø PLUG VALVE.

CONSTRUCTION SEQUENCE

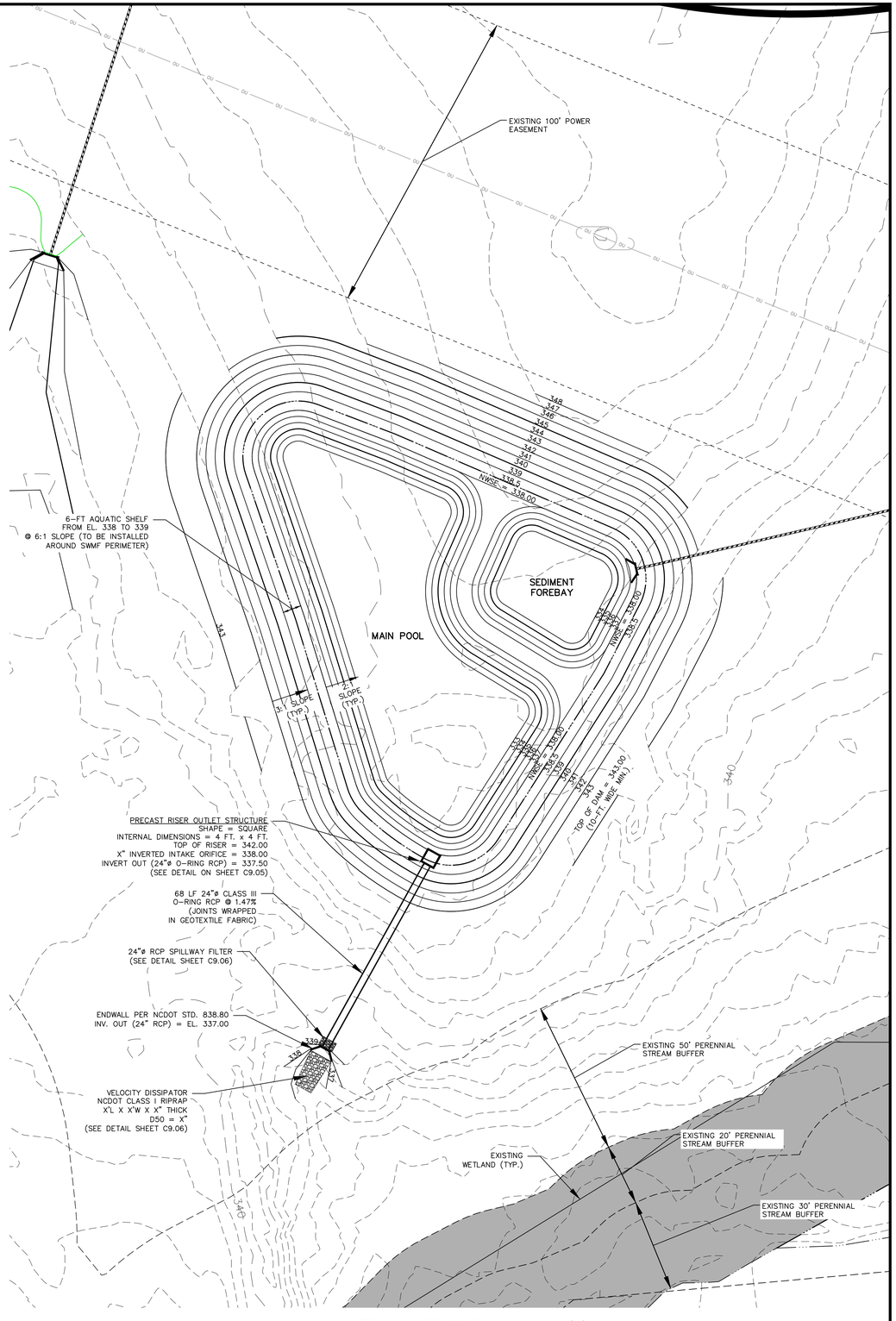
1. PRIOR TO CONSTRUCTION, THE OWNER SHALL OBTAIN A LAND DISTURBING (GRADING) PERMIT AND AN "APPROVAL TO CONSTRUCT" FROM THE TOWN OF ROLESVILLE AND ALL OTHER NECESSARY PERMITS FROM APPLICABLE AGENCIES (E.G. 404 / 401 PERMITS)
2. INSTALL ALL SEDIMENT AND EROSION CONTROL MEASURES PER THE APPROVED SEDIMENT AND EROSION CONTROL PLAN. THE CONTRACTOR SHALL MAINTAIN ALL APPROVED SEDIMENT AND EROSION CONTROL MEASURES THROUGHOUT THE ENTIRE PROJECT, AS REQUIRED. THE CONTRACTOR SHALL RECEIVE APPROVAL FROM THE EROSION CONTROL INSPECTOR, AS REQUIRED BY GOVERNING AGENCIES, PRIOR TO ANY CLEARING.
3. CLEAR AND GRUB AREA WITHIN THE LIMITS OF THE PROPOSED DAM CONSTRUCTION. ALL TREES AND THEIR ENTIRE ROOT SYSTEMS MUST BE REMOVED FROM THE DAM FOOTPRINT AREA AND BACKFILLED WITH SUITABLE SOIL MATERIAL. THE BACKFILLED AREAS SHALL BE COMPACTED TO THE SAME STANDARDS AS THE DAM EMBANKMENT. THE REMAINING AREA OF THE EMBANKMENT SHALL BE STRIPPED TO A SUITABLE DEPTH AS DIRECTED BY THE ON-SITE GEOTECHNICAL ENGINEER. ANY RESIDUAL SOILS TO BE LEFT IN PLACE MUST BE WELL SCARIFIED TO PROMOTE BONDING OF THE NEW EMBANKMENT FILL. NO EMBANKMENT MATERIAL SHALL BE PLACED FOR THE DAM OR KEY TRENCH UNTIL APPROVAL OF THE DAM SUBGRADE IS OBTAINED FROM THE ON-SITE GEOTECHNICAL ENGINEER.
4. EXCAVATE FOR THE NEW KEY TRENCH ALONG THE CENTERLINE OF THE PROPOSED DAM EMBANKMENT. THE TRENCH SHALL EXTEND A MINIMUM OF 5 FT BELOW EXISTING GRADE OR 2 FT BELOW THE 24"Ø RCP OUTLET BARREL AND SHALL HAVE A MINIMUM BOTTOM WIDTH OF 5 FEET. THE KEY TRENCH SIDESLOPES SHALL BE A MINIMUM OF 1:1 (H:V). WHEN EXCAVATING THE KEY TRENCH, IF ANY DEBRIS IS ENCOUNTERED TO AN EXTENT THAT SUCH DEBRIS MAY EXIST IN OTHER INSITU PORTIONS OF THE DAM EMBANKMENT, IT SHOULD ALSO BE REMOVED. THE KEY TRENCH SHALL BE COMPACTED TO THE SAME SPECIFICATION LISTED IN ITEM 4 OF THE SECTION TITLED "BERM AND SOIL COMPACTION SPECIFICATIONS." DEPENDING UPON ON-SITE SOIL CONDITIONS ENCOUNTERED DURING EXCAVATION, THE ON-SITE GEOTECHNICAL ENGINEER MAY VARY THE DEPTH AND DIMENSIONS OF THE KEY TRENCH AS DEEMED NECESSARY. THE ON-SITE GEOTECHNICAL ENGINEER SHALL RETAIN DOCUMENTATION OF ANY VARIATION FOR FUTURE AS-BUILT SUBMITTALS TO THE TOWN OF ROLESVILLE.
5. BEGIN PLACEMENT OF BACKFILL WITHIN THE KEY TRENCH. THE KEY TRENCH SHALL BE COMPACTED TO THE SPECIFICATIONS LISTED ITEM 4 OF THE SECTION TITLED "BERM AND SOIL COMPACTION SPECIFICATIONS." THE KEY TRENCH SHALL BE TESTED PER THE SPECIFICATIONS LISTED IN THAT SECTION.
6. PRIOR TO INSTALLATION, SUBGRADE CONDITIONS ALONG THE SPILLWAY PIPES SHOULD BE EVALUATED BY THE ON-SITE GEOTECHNICAL ENGINEER TO ASSESS WHETHER SUITABLE BEARING CONDITIONS EXIST AT THE SUBGRADE LEVEL. SHOULD SOFT OR OTHERWISE UNSUITABLE CONDITIONS BE ENCOUNTERED ALONG THE PIPE ALIGNMENTS, THESE MATERIALS SHOULD BE UNDERCUT AS DIRECTED BY THE GEOTECHNICAL ENGINEER. THE UNDERCUT MATERIALS SHALL BE REPLACED WITH ADEQUATELY COMPACTED STRUCTURAL FILL, LEAN CONCRETE OR FLOWABLE FILL AS DIRECTED BY THE ON-SITE GEOTECHNICAL ENGINEER.
7. IN ORDER TO HELP PROTECT THE SOIL SUBGRADE FROM DETERIORATION (DUE TO EXPOSURE, RAINFALL, SEEPAGE, AND RUNOFF) BEFORE THE CRADLE CAN BE POURED, IT IS STRONGLY RECOMMENDED THAT A 3" TO 4" THICK CONCRETE MUD MAT BE POURED OVER THE SUBGRADE ONCE IT IS APPROVED BY THE ON-SITE GEOTECHNICAL ENGINEER. THE MUD MAT WILL ALSO PROVIDE BEARING FOR THE BLOCKS THAT TEMPORARILY SUPPORT THE SPILLWAY PIPE UNTIL THE CRADLE CAN BE POURED. THE METHOD OF BLOCK SUPPORT FOR THE PIPE PROPOSED BY THE CONTRACTOR SHOULD BE SUBMITTED TO THE JOHN R. McADAMS COMPANY FOR REVIEW.
8. BEGIN CONSTRUCTION OF THE NEW EMBANKMENT. FILL MATERIALS SHALL BE PLACED IN MAXIMUM 8" THICK LIFTS PRIOR TO COMPACTION, UNLESS DIRECTED OTHERWISE BY THE ON-SITE GEOTECHNICAL ENGINEER. FILL LIFTS SHALL BE CONTINUOUS OVER THE ENTIRE LENGTH OF FILL. IF IT IS NECESSARY, THE EMBANKMENT FILL MATERIAL WILL BE OVERBUILT IN HORIZONTAL LIFTS AND CUT BACK TO FINAL GRADE IN ORDER TO ACHIEVE PROPER COMPACTION.
9. AS CONSTRUCTION OF THE EMBANKMENT MOVES FORWARD, IT WILL BE NECESSARY TO INSTALL THE CONCRETE CRADLE. SEE NOTE ON CRADLE DETAIL (SHEET C9.06). THIS MAY BE CONSTRUCTED USING ONE OF THE FOLLOWING METHODS:
   A. IF THE PROPOSED STRUCTURAL FILL MATERIAL IS UTILIZED AS THE FORMWORK FOR THE CONCRETE CRADLE, THEN THE STRUCTURAL FILL SHOULD BE INSTALLED AND COMPACTED UP TO THE TOP OF CONCRETE CRADLE ELEVATION. ONCE THE STRUCTURAL FILL REACHES THE NEXT DOWNSTREAM JUNCTION BOX OR HEADWALL AND IS COMPACTED TO THE ELEVATION OF THE TOP OF THE CONCRETE CRADLE, EXCAVATE THE CONCRETE CRADLE TRENCH PER THE PROVIDED DETAILS AND CONSTRUCT THE CONCRETE CRADLE AS PER THE PROVIDED CONCRETE CRADLE DETAIL.
   B. IF THE PROPOSED STRUCTURAL FILL IS NOT UTILIZED AS THE FORMWORK FOR THE CONCRETE CRADLE, THEN PRIOR TO CONSTRUCTING THE STRUCTURAL FILL EMBANKMENT, THE FORMWORK FOR THE CONCRETE CRADLE SHOULD BE INSTALLED ON EXISTING GROUND AND/OR THE MUD MAT. THE CONCRETE CRADLE SHALL BE CONSTRUCTED PER THE PROVIDED DETAILS
10. AS AN ALTERNATE TO A CONCRETE CRADLE UNDER THE BARREL PIPE (SEE SHEET C9.06), THE CONTRACTOR MAY CHOOSE TO ELIMINATE THE CONCRETE CRADLE AND USE COMPACTED BACKFILL IF THE ON-SITE GEOTECHNICAL ENGINEER WILL PROVIDE A NC PE SEALED LETTER CERTIFYING THAT THE COMPACTION UNDER, AROUND, AND ABOVE THE BARREL MEETS THE SPECIFICATIONS OF THE EMBANKMENT COMPACTION REQUIREMENTS AND MOISTURE CONTENT. THIS CERTIFICATION LETTER MUST BE SUBMITTED TO THE DESIGN ENGINEER PRIOR TO BACKFILL. THIS SEPARATE CERTIFICATION MUST BE SPECIFIC TO THE BARREL PIPE FOR THE FACILITY, AND MUST CLEARLY STATE THAT ALL SOIL MATERIAL UNDER, AROUND, AND ABOVE THE BARREL PIPE MEETS THE BERM AND SOIL COMPACTION SPECIFICATIONS ON THIS SHEET. THIS CERTIFICATION IS TO INCLUDE REFERENCE TO BOTH MATERIAL AND COMPACTION, AND MUST STATE THAT ALL MATERIALS UNDER, AROUND, AND ABOVE THE BARREL HAVE BEEN COMPACTED PER THE BERM MATERIAL SPECIFICATIONS (AT LEAST 95% OF MAXIMUM DRY DENSITY USING ASTM D698 STANDARD PROCTOR) WITH NO VOID SPACES PRESENT. THE CONTRACTORS INTENT TO UTILIZE THIS ALTERNATIVE MUST BE STATED PRIOR TO CONSTRUCTION TAKING PLACE. THIS CONTRACTORS CERTIFICATION MUST BE PRESENTED TO THE DESIGN ENGINEER BEFORE AN AS-BUILT CERTIFICATION CAN BE ISSUED FOR THIS FACILITY.
11. INSTALL RISER / BARREL ASSEMBLY, ALONG WITH THE EMERGENCY DRAIN SYSTEM. INSTALL 24" RCP OUTLET BARREL SPILLWAY FILTER FROM THE DETAILS SHOWN ON SHEET C9.06.
12. CONSTRUCT EMBANKMENT PER SPECIFICATIONS LISTED IN THE SECTION TITLED "BERM AND SOIL COMPACTION SPECIFICATIONS" AND REQUIREMENTS OF THE ON-SITE GEOTECHNICAL ENGINEER. ALL CHARACTERISTICS OF THE EMBANKMENT FILL MATERIAL SHALL MEET THE STANDARDS SET FORTH IN "BERM AND SOIL COMPACTION SPECIFICATIONS", INCLUDING COMPACTION AND MOISTURE REQUIREMENTS. IF NECESSARY TO ACHIEVE PROPER COMPACTION, THE EMBANKMENT FILL MATERIAL WILL BE OVERBUILT IN HORIZONTAL LIFTS AND CUT BACK TO PROPER FINAL GRADE. ANY HAND COMPACTION ACTIVITIES AROUND SPILLWAY OR DRAIN STRUCTURES SHALL BE CONDUCTED IN 4-INCH LOOSE LIFTS AND BE TO THE SAME COMPACTION AND MOISTURE REQUIREMENTS AS THE ENTIRE EMBANKMENT. ALL COMPACTION AND MOISTURE TESTING SHALL BE CARRIED OUT AS DIRECTED BY THE ON-SITE GEOTECHNICAL ENGINEER AND AS LISTED IN THE SECTION TITLED "BERM AND SOIL COMPACTION SPECIFICATIONS".
13. UPON COMPLETION OF DAM EMBANKMENT, PROMPTLY STABILIZE AND SEED DAM EMBANKMENT PER SEEDING SCHEDULE. PERMANENT GROUND COVER SHALL BE ESTABLISHED PER THE PERMANENT SEEDING SCHEDULE FOUND ON SHEET C9.03.
14. SCHEDULE A FINAL AS-BUILT INSPECTION AND AS-BUILT SURVEY WITH THE ENGINEER AND SURVEYOR. AN AS-BUILT INSPECTION AND SURVEY SHALL BE SCHEDULED BEFORE IMPOUNDING WATER IN THE FACILITY AND A MINIMUM OF 60 DAYS PRIOR TO THE ANTICIPATED DATE OF CERTIFICATION APPROVAL. ANY COMMENTS OR DEFICIENCIES IN THE SCM CONSTRUCTION MUST BE CORRECTED TO THE SATISFACTION OF THE ENGINEER AND OWNER BEFORE CERTIFICATION SHALL BE GRANTED.

BERM AND SOIL COMPACTION SPECIFICATIONS

1. PRIOR TO CONSTRUCTION, THE ON-SITE GEOTECHNICAL ENGINEER SHALL IDENTIFY BORROW / FILL AREAS AND VERIFY THEIR SUITABILITY FOR USE WITHIN THE DAM EMBANKMENT. ALSO, THE ON-SITE GEOTECHNICAL ENGINEER SHALL PERFORM STANDARD PROCTORS ON THE PROPOSED BORROW MATERIAL TO ENSURE THAT OPTIMUM MOISTURE CONTENT AND COMPACTION CAN BE ACHIEVED / CONTROLLED DURING CONSTRUCTION.
2. ALL FILL MATERIALS TO BE USED FOR THE DAM EMBANKMENT SHALL BE TAKEN FROM BORROW AREAS APPROVED BY THE ON-SITE GEOTECHNICAL ENGINEER. THE FILL MATERIAL SHALL BE FREE FROM ROOTS, STUMPS, WOOD, STONES GREATER THAN 6", AND FROZEN OR OTHER OBJECTIONABLE MATERIAL. THE FOLLOWING SOIL TYPES ARE SUITABLE FOR USE AS FILL WITHIN THE DAM EMBANKMENT AND KEY TRENCH: ML AND CL. ALL FILL MATERIALS SHALL BE APPROVED BY THE ONSITE GEOTECHNICAL ENGINEER FOR THE INTENDED USE.
3. FILL PLACEMENT FOR THE EMBANKMENT SHALL NOT EXCEED A MAXIMUM 8" LIFT (UNCOMPACTED). EACH LIFT SHALL BE CONTINUOUS FOR THE ENTIRE LENGTH OF EMBANKMENT. BEFORE PLACEMENT OF FILL FOR THE BERM SECTION, ALL UNSUITABLE MATERIAL SHALL BE REMOVED AND THE SURFACE PROPERLY PREPARED FOR FILL PLACEMENT. FILL MATERIAL ADJACENT TO ALL SPILLWAY AND DRAINAGE STRUCTURES SHALL BE PLACED IN 4-INCH (UNCOMPACTED) LIFTS AND HAND-COMPACTED TO THE SAME COMPACTION AND MOISTURE REQUIREMENTS AS THE ENTIRE EMBANKMENT.
4. ALL FILL SOILS USED IN THE EMBANKMENT CONSTRUCTION SHALL BE COMPACTED TO AT LEAST 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D-698). THE FILL SOILS SHALL BE COMPACTED AT A MOISTURE CONTENT WITHIN -1 TO +3 PERCENT OF ITS OPTIMUM MOISTURE CONTENT. COMPACTION TESTS SHALL BE PERFORMED BY THE ON-SITE GEOTECHNICAL ENGINEER DURING CONSTRUCTION TO VERIFY THAT THE PROPER COMPACTION LEVEL HAS BEEN REACHED. THE FILL SHOULD BE COMPACTED USING A SHEEPSFOOT TYPE COMPACTOR. IN ORDER TO PREVENT DAMAGE TO THE PIPE, NO COMPACTION EQUIPMENT SHALL CROSS ANY PIPE UNTIL MINIMUM COVER IS ESTABLISHED ALONG THE PIPE.
5. THE DESIGN ENGINEER SHALL BE PROVIDED WITH REPORTS AND CERTIFICATION, BY THE ON-SITE GEOTECHNICAL ENGINEER, THAT THE GEOTECHNICAL ASPECTS OF THE FACILITY HAVE BEEN CONSTRUCTED PER PLAN. THIS CERTIFICATION MUST ADDRESS THE TESTING FOR MATERIALS AND COMPACTION OF THE DAM EMBANKMENT AND SPILLWAY. THESE REPORTS AND CERTIFICATION WILL BE NEEDED DURING THE AS-BUILT CERTIFICATION PROCESS FOR THIS STORMWATER CONTROL MEASURE. THEREFORE, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE TESTING AND OBSERVATION WITH THE ON-SITE GEOTECHNICAL ENGINEER.
6. TESTING OF THE NEW FILL MATERIALS SHALL BE PERFORMED TO VERIFY THAT THE RECOMMENDED LEVEL OF COMPACTION IS ACHIEVED DURING CONSTRUCTION. THEREFORE, ONE DENSITY TEST SHALL BE PERFORMED FOR EVERY 2,500 SQUARE FEET OF AREA FOR EVERY LIFT OF FILL OR AS RECOMMENDED BY THE ON-SITE GEOTECHNICAL ENGINEER.
7. TESTING WILL BE REQUIRED ALONG THE 24"Ø RCP OUTLET BARREL AT A FREQUENCY OF ONE TEST PER 25 LF OF PIPE PER VERTICAL FOOT OF FILL OR AS DIRECTED BY THE ON-SITE GEOTECHNICAL ENGINEER.

STATEMENT OF RESPONSIBILITY

1. ALL REQUIRED MAINTENANCE AND INSPECTIONS OF THE STORMWATER CONTROL MEASURE SHALL BE THE RESPONSIBILITY OF THE OWNER, PER THE EXECUTED OPERATION AND MAINTENANCE AGREEMENT FOR THIS FACILITY.



GRAPHIC SCALE
0 10 20 40
1 inch = 20 ft.

STORMWATER CONTROL MEASURE 'B' PLAN VIEW
1" = 20'

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

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11624 LOUISBURG ROAD
ROLESVILLE, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 042637 ENGINEER JOSHUA E. SHINN

REVISIONS

NO.	DATE

PLAN INFORMATION

PROJECT NO.	202011039
FILENAME	2020110039-SWB
CHECKED BY	JES
DRAWN BY	HDR
SCALE	1" = 20'
DATE	05. 28. 2021

SHEET

STORMWATER CONTROL MEASURE 'B' PLAN VIEW

C9.04

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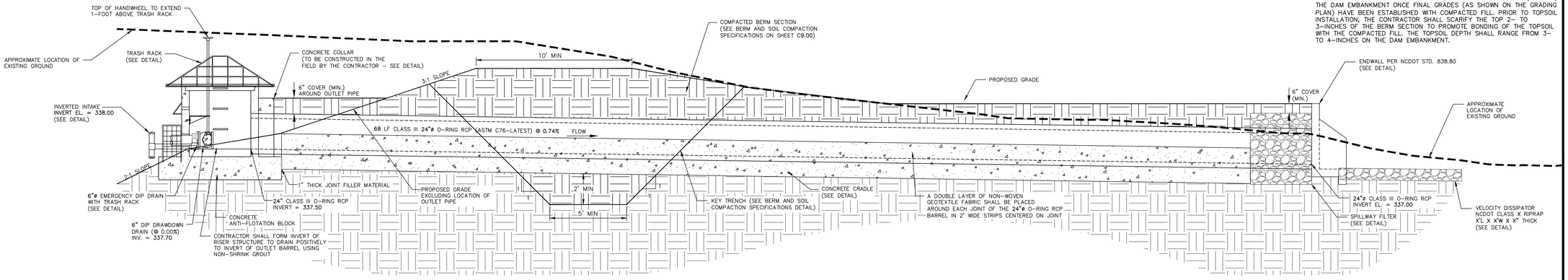
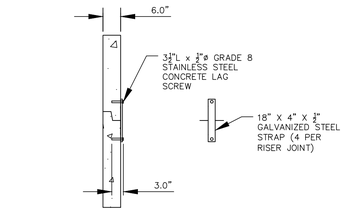


NOTE:

REMOVED TOPSOIL SHALL BE STOCKPILED FOR USE IN PLANTING (SEEDING) THE DAM EMBANKMENT ONCE FINAL GRADES (AS SHOWN ON THE GRADING PLAN) HAVE BEEN ESTABLISHED WITH COMPACTED FILL. PRIOR TO TOPSOIL INSTALLATION, THE CONTRACTOR SHALL SCARIFY THE TOP 2– TO 3–INCHES OF THE BERM SECTION TO PROMOTE BONDING OF THE TOPSOIL WITH THE COMPACTED FILL. THE TOPSOIL DEPTH SHALL RANGE FROM 3– TO 4–INCHES ON THE DAM EMBANKMENT.

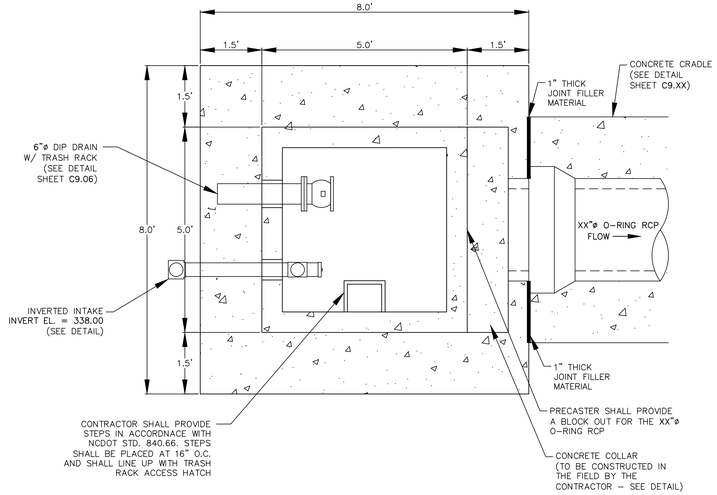
PERMANENT DAM CROSS SECTION
N.T.S.

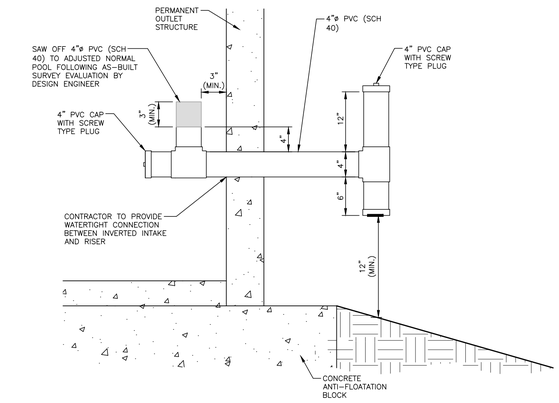


RISER JOINT CONNECTION DETAIL
N.T.S.

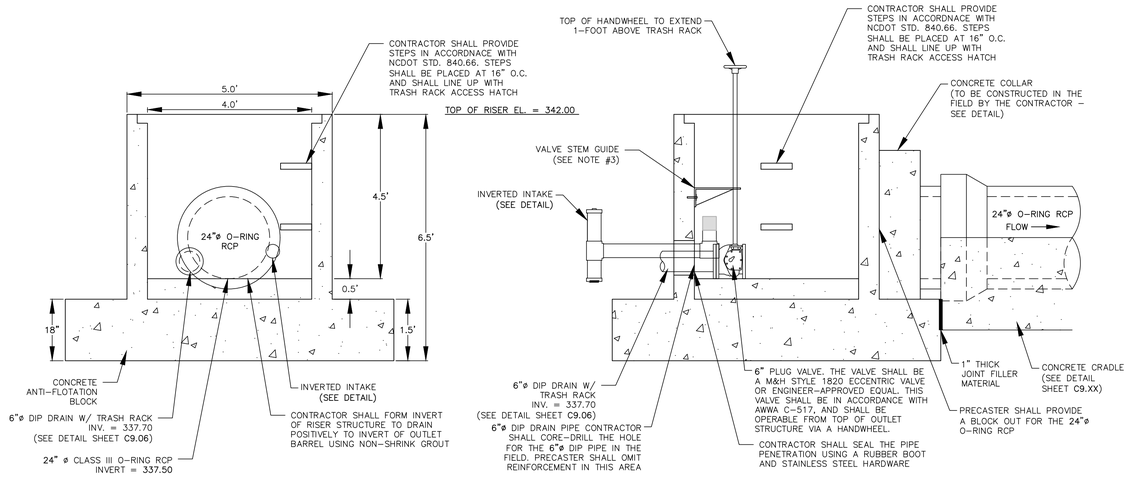
NOTES:

1. CONCRETE ANTI–FLOTATION BLOCK TO BE PROVIDED WITH MINIMUM TEMPERATURE AND SHRINKAGE STEEL REINFORCEMENT.
2. TRASH RACKS NOT SHOWN FOR CLARITY.
3. THE NUMBER OF GUIDES FOR THE VALVE STEM SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR. THE VALVE STEM MUST BE OPERABLE FROM THE TOP OF THE RISER VIA THE HANDWHEEL WITH AN INSIGNIFICANT AMOUNT OF PLAY IN THE VALVE STEM.
4. CONTRACTOR SHALL PROVIDE A JOINT IN THE OUTLET BARREL NO MORE THAN 5–FT FROM THE RISER.





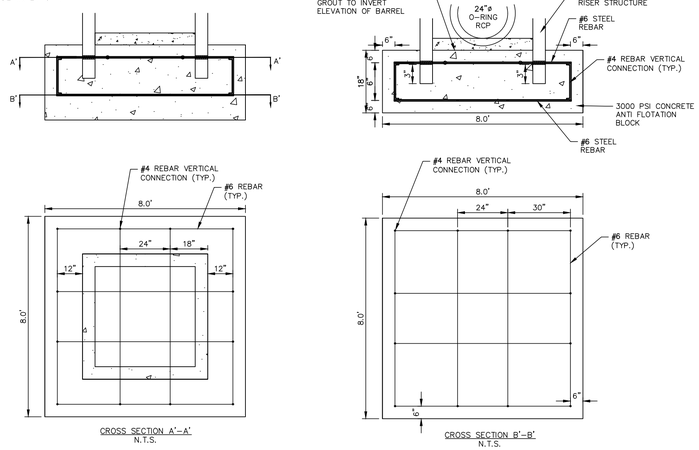
INVERTED INTAKE OUTLET DETAIL
N.T.S.



PERMANENT OUTLET STRUCTURE DETAILS
N.T.S.

NOTES:

1. ALL REINFORCING STEEL IN RISER ANTI–FLOTATION BLOCK TO BE GRADE 60 #6 BARS FOR HORIZONTAL CROSSING AND GRADE 60 #4 BARS FOR VERTICAL CONNECTIONS.
2. INSIDE OF RISER BOTTOM TO BE FORMED WITH NON–SHRINK GROUT TO INVERT ELEVATION OF BARREL.
3. ALL PIPE PENETRATIONS THROUGH THE CONCRETE RISER STRUCTURE SHALL BE MADE WATERTIGHT.



RISER/ANTI–FLOTATION BLOCK CONNECTION
N.T.S.

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

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REVISIONS

NO.	DATE

PLAN INFORMATION

PROJECT NO.	202011039
FILENAME	2020110039-SWB
CHECKED BY	JES
DRAWN BY	HDR
SCALE	NTS
DATE	05. 14. 2021

SHEET

STORMWATER CONTROL MEASURE 'B' DETAILS

C9.05

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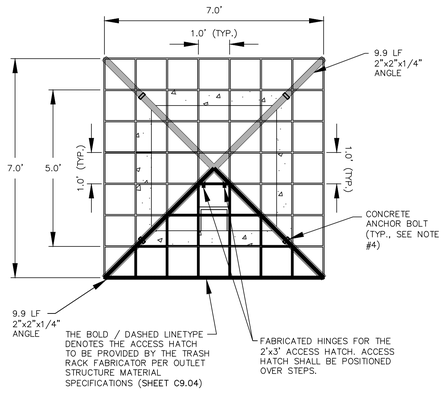
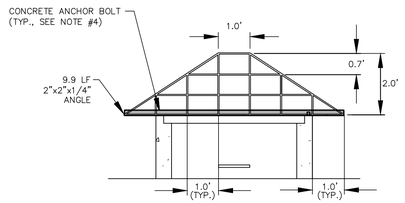
NOTES:

1. ALL REBAR TO BE #4 REBAR.
2. ALL REBAR AND ANGLES TO BE HOT-DIPPED GALVANIZED AND BE PROVIDED WITH AN EPOXY COATING.
3. THE HOT-DIPPED, GALVANIZED 2"x2"x1/4" ANGLES SHALL BE WELDED TO THE REBAR TRASH RACK. ONCE WELDED, THE ENTIRE ASSEMBLY SHALL BE PLACED ONTO THE RISER WITH ANGLES SITTING DIRECTLY ON TOP OF RISER.
4. CONTRACTOR SHALL ANCHOR THE TRASH RACK TO MANHOLE WALL WITH FOUR 4"x1/4" CONCRETE ANCHOR BOLTS THROUGH ANGLES.
5. CONTRACTOR SHALL OMIT OR ADJUST REBAR AS NECESSARY TO ALLOW FOR CONCRETE COLLAR.
6. ACCESS HATCH SHALL ALIGN WITH STEPS IN RISER.

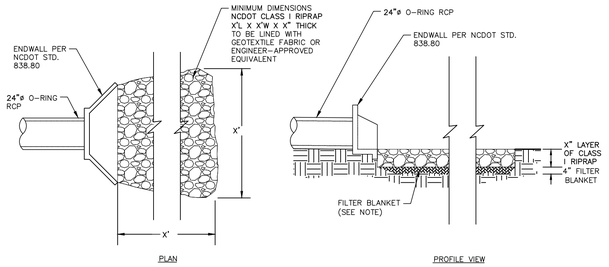




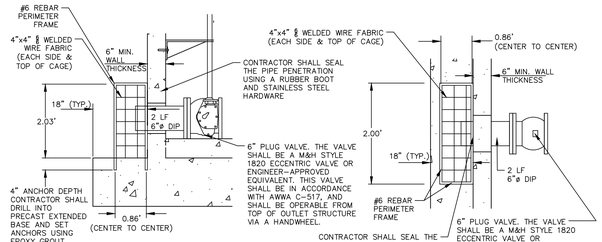
TRASH RACK DETAIL
N.T.S.

NOTES:

1. A FILTER BLANKET IS TO BE INSTALLED BETWEEN THE RIPRAP AND SOIL FOUNDATION. THE FILTER BLANKET WILL CONSIST OF A MINIMUM 4" THICK LAYER OF STONE (NCDOT #57) UNDERLAIN WITH MIRAFI FILTER WEAVE 700 OR ENGINEER-APPROVED EQUIVALENT.
2. RIPRAP TO EXTEND TO TOP OF CHANNEL WITH 2:1 SIDE SLOPES THROUGHOUT THE EXTENT OF CHANNEL.



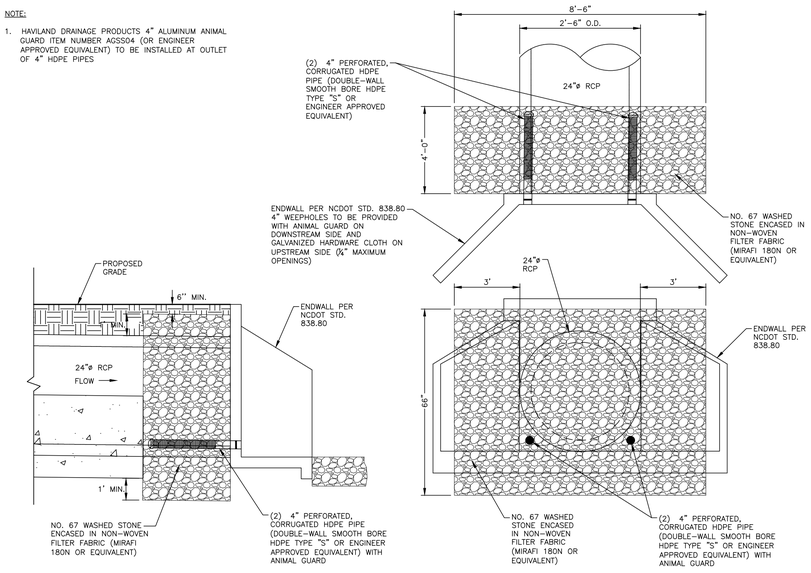
OUTLET BARREL VELOCITY DISSIPATER
N.T.S.



6"ø EMERGENCY DIP DRAIN TRASH RACK DETAILS
N.T.S.

NOTE:

1. HAVILAND DRAINAGE PRODUCTS 4" ALUMINUM ANIMAL GUARD ITEM NUMBER AGSS04 (OR ENGINEER APPROVED EQUIVALENT) TO BE INSTALLED AT OUTLET OF 4" HDPE PIPES



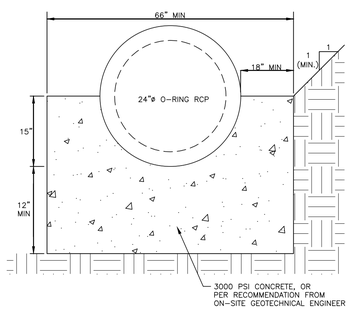
24" SPILLWAY FILTER DETAIL
N.T.S.

NOTE:

1. AS AN ALTERNATE TO A CONCRETE CRADLE UNDER THE BARREL PIPE (THIS DETAIL), THE CONTRACTOR MAY CHOOSE TO ELIMINATE THE CONCRETE CRADLE AND USE COMPACTED BACKFILL IF THE ON-SITE GEOTECHNICAL ENGINEER WILL PROVIDE A NC PE SEALED LETTER CERTIFYING THAT THE COMPACTION UNDER, AROUND, AND ABOVE THE BARREL MEETS THE SPECIFICATIONS OF THE EMBANKMENT COMPACTION REQUIREMENTS AND MOISTURE CONTENT. THIS CERTIFICATION LETTER MUST BE SUBMITTED TO THE DESIGN ENGINEER BEFORE AS-BUILT CERTIFICATION OF THE FACILITY. THIS SEPARATE CERTIFICATION MUST BE SPECIFIC TO THE BARREL PIPE FOR THE FACILITY, AND MUST CLEARLY STATE THAT ALL SOIL MATERIAL UNDER, AROUND, AND ABOVE THE BARREL PIPE MEETS THE BERM MATERIAL SPECIFICATIONS. THIS CERTIFICATION IS TO INCLUDE REFERENCE TO BOTH MATERIAL AND COMPACTION, AND MUST STATE THAT ALL MATERIALS UNDER, AROUND, AND ABOVE THE BARREL HAVE BEEN COMPACTED PER THE BERM MATERIAL SPECIFICATIONS (AT LEAST 95% OF MAXIMUM DRY DENSITY USING ASTM D698 STANDARD PROCTOR) WITH NO VOID SPACES PRESENT. THE CONTRACTORS INTENT TO UTILIZE THIS ALTERNATIVE MUST BE STATED PRIOR TO CONSTRUCTION TAKING PLACE. THIS CONTRACTORS CERTIFICATION MUST BE PRESENTED TO THE DESIGN ENGINEER BEFORE AN AS-BUILT CERTIFICATION CAN BE ISSUED FOR THIS FACILITY.
2. CONTRACTOR SHALL PROVIDE A JOINT IN THE OUTLET BARREL NO MORE THAN 5-FT FROM THE RISER.

BARREL PIPE CONCRETE CRADLE CONSTRUCTION SEQUENCE

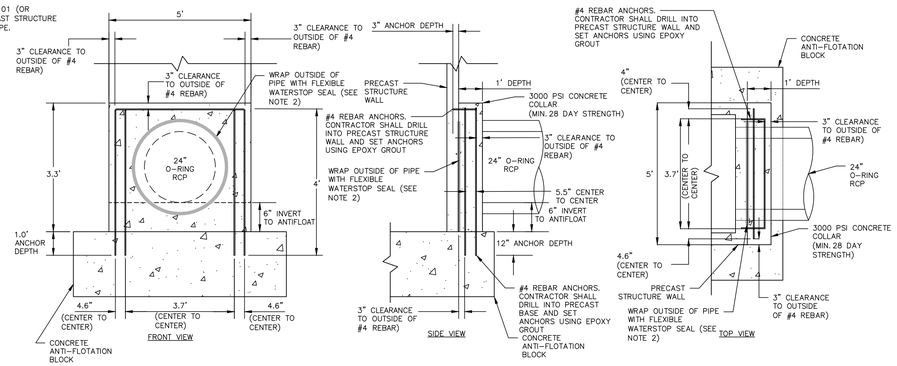
1. IF OPTION A IS CHOSEN FROM NOTE 9 OF THE OUTLET STRUCTURE MATERIAL SPECIFICATIONS, THEN BRING GRADE OF DAM EMBANKMENT TO SPRINGLINE OF PIPE ELEVATION. IF OPTION B IS CHOSEN FROM NOTE 9 OF THE OUTLET STRUCTURE MATERIAL SPECIFICATIONS, THEN CONSTRUCT FORMWORK FOR CONCRETE CRADLE ON EXISTING GRADE.
2. IF OPTION A IS CHOSEN FROM NOTE 9 OF THE OUTLET STRUCTURE MATERIAL SPECIFICATIONS, THEN EXCAVATE TRENCH FOR CRADLE AND BARREL PER DIMENSIONS ON DRAWINGS. IF OPTION B IS CHOSEN FROM NOTE 9 OF THE OUTLET STRUCTURE MATERIAL SPECIFICATIONS, PROCEED TO STEP 3 BELOW.
3. PLACE BARREL PIPE ON CONCRETE BLOCKS TO GRADE. AT THIS STEP, CONTRACTOR SHALL WRAP A DOUBLE LAYER OF NON-WOVEN GEOTEXTILE FABRIC AROUND EACH JOINT OF THE 24"ø O-RING RCP BARREL IN 2' WIDE STRIPS CENTERED ON JOINT.
4. PLACE CONCRETE FOR CRADLE FOR EACH SECTION FROM ONE SIDE OF THE TRENCH. ALLOW CONCRETE TO FILL ENTIRE AREA UNDER PIPE AND PIPE HAUNCHES AS TO LEAVE NO VOIDS UNDER THE PIPE BEFORE PLACING CONCRETE ON THE OPPOSITE SIDE OF THE TRENCH. PLACE ENTIRE CRADLE AS ONE LIFT (VERTICALLY) PER DRAWINGS.
5. CONCRETE CRADLE MAY BE ELIMINATED PER RECOMMENDATION FROM THE ON-SITE GEOTECHNICAL ENGINEER. ANY DEVIATION FROM THIS DETAIL SHALL BE SUBMITTED TO AND REVIEWED BY THE DESIGN ENGINEER PRIOR TO IMPLEMENTATION. IF THE CRADLE IS ELIMINATED, THEN A LETTER FROM AN NC PE CERTIFYING THAT ALL SOIL MATERIAL UNDER, AROUND, AND ABOVE THE BARREL PIPE MEETS THE BERM MATERIAL SPECIFICATIONS IS REQUIRED.
6. ALLOW CRADLE TO CURE FOR A MINIMUM OF 7 DAYS BEFORE ANY VIBRATING COMPACTION EQUIPMENT IS USED IN THE VICINITY OF THE BARREL PIPE.
7. TRENCH TO BE BACKFILLED IN 5" LIFTS WHEN COMPACTION IS BY HAND. BACKFILL IS IN 8" LIFTS WHEN CONDUCTED BY MACHINE, MINIMUM OF 2 FEET COVER MUST BE PRESENT ON 24"ø RCP BEFORE DRIVING OVER WITH HEAVY EQUIPMENT.



24" CONCRETE CRADLE DETAIL
N.T.S.

NOTES:

1. ALL REBAR TO BE #4 REBAR.
2. WRAP OUTSIDE OF PIPE WITH VOLCLAY WATERSTOP-RX® 101 (OR PRE-APPROVED EQUIVALENT) AT THE FACE OF THE PRECAST STRUCTURE WALL. PROVIDE 6" OVER LAP ON THE BOTTOM OF THE PIPE.



24"ø CONCRETE COLLAR DETAIL
N.T.S.

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REVISIONS

NO.	DATE

PLAN INFORMATION

PROJECT NO.	202011039
FILENAME	2020110039-SWB
CHECKED BY	JES
DRAWN BY	HDR
SCALE	NTS
DATE	05. 14. 2021

SHEET

STORMWATER CONTROL MEASURE 'B' DETAILS

C9.06

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

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STORMWATER CONTROL MEASURE 'B' LANDSCAPE SPECIFICATIONS

LEGEND

QTY.	SYM.	SCIENTIFIC NAME	COMMON NAME	HATCH	TYPE	SPACING
SHALLOW WATER						
465		PLANTINGS BASED ON RECOMMENDATIONS PER NC DEQ MDC MANUAL			4-INCH CONTAINER	24" O.C.
SHALLOW LAND						
328		PLANTINGS BASED ON RECOMMENDATIONS PER NC DEQ MDC MANUAL			4-INCH CONTAINER	24" O.C.

SEEDBED PREPARATION

1. CHISEL COMPACTED AREAS AND SPREAD TOPSOIL 3-4 INCHES DEEP OVER ADVERSE SOIL CONDITIONS. TOPSOIL SHOULD BE INCORPORATED INTO THE FINAL GRADING OF THE BASIN SIDE SLOPES AND AQUATIC SHELF. CONTRACTOR SHOULD SCARIFY THE TOP 3-4 INCHES OF THE COMPACTED FILL TO PROMOTE BONDING WITH TOPSOIL.
2. RIP THE ENTIRE AREA TO 6 INCHES DEPTH.
3. REMOVE ALL LOOSE ROCK, ROOTS, AND OTHER OBSTRUCTIONS LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM.
4. PER ONE TIME ONLY, APPLY AGRICULTURAL LIME, FERTILIZER, AND SUPERPHOSPHATE UNIFORMLY AND MIX WITH SOIL.
5. CONTINUE TILLAGE UNTIL A WELL-PULVERIZED, FIRM REASONABLY UNIFORM SEEDBED IS PREPARED 4 TO 6 INCHES DEEP.
6. SEED ON A FRESHLY PREPARED SEEDBED AND COVER.
7. MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH.
8. INSPECT ALL SEEDED AREAS AND MAKE NECESSARY REPAIRS OR RESEEDINGS WITHIN THE PLANTING SEASON, IF POSSIBLE. AFTER PERMANENT COVER IS ESTABLISHED.
9. CONSULT CONSERVATION INSPECTOR ON MAINTENANCE TREATMENT.

TEMPORARY SEEDING SCHEDULE

SEEDING DATE	SEEDING MIXTURE	APPLICATION RATE
JAN 1 - MAY 1	RYE (GRAIN)	120 LBS/AC
	KOBE LESPEDEZA	50 LBS/AC
MAY 1 - AUG 15	GERMAN MILLET	40 LBS/AC
AUG 15 - DEC 30	RYE (GRAIN)	120 LBS/AC

SOIL AMENDMENTS
FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/AC GROUND AGRICULTURE LIMESTONE AND 750 LB/AC 10-10-10 FERTILIZER (FROM AUG 15 - DEC 30, INCREASE 10-10-10 FERTILIZER TO 1000 LB/AC).

MULCH
APPLY 4000 LB/AC STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE
JAN 1 - AUG 15: REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REFERTILIZE, AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

AUG 15 - DEC 30: REPAIR AND REFERTILIZE DAMAGED AREAS IMMEDIATELY. TOP DRESS WITH 50 LB/AC OF NITROGEN IN MARCH. IF IT IS NECESSARY TO EXTEND TEMPORARY COVER BEYOND JUNE 15, OVERSEED WITH 50 LB/AC KOBE LESPEDEZA IN LATE FEBRUARY OR EARLY MARCH.

NOTE: USE THE TEMPORARY SEEDING SCHEDULE ONLY WHEN DATE IS NOT CORRECT TO USE THE PERMANENT SEEDING SCHEDULE.

PERMANENT SEEDING SCHEDULE (DAM EMBANKMENTS)

SEEDING DATE	SEEDING MIXTURE OPTIONS (CHOOSE ONE)	APPLICATION RATE
MAY 1 - AUG 31	CENTIPEDE RAW	30 LBS/AC
APRIL 1 - SEPT 1	SUMMER MIX (80% HULLED BERMUDA/20% MILLET)	200 LBS/AC
OCT 1 - MARCH 1	FALL MIX (80% TALL FESCUE/20% ANNUAL RYEGRASS)	200 LBS/AC

SOIL AMENDMENTS
FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 4,000 LB/AC GROUND AGRICULTURE LIMESTONE AND 1000 LB/AC 10-10-10 FERTILIZER.

MULCH
APPLY 4000 LB/AC STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE
INSPECT AND REPAIR MULCH FREQUENTLY. REFERTILIZE IN LATE WINTER OF THE FOLLOWING YEAR; USE SOIL TESTS OR APPLY 150 LB/AC 10-10-10 FERTILIZER. MOW REGULARLY TO A HEIGHT OF 2-4 INCHES.

NOTE: PERMANENT SEEDING SCHEDULE IS FOR SLOPES OF THE BASIN AND TOP OF BERM.

PLANTING INSTRUCTIONS

PLANTING TECHNIQUES
A. INSURE THAT ROOTS, ONCE REMOVED FROM POT, ARE STRAIGHTENED AND FACE DOWNWARD.
B. CREATE PLANTING AREA FOR EACH PLANT AND EXCAVATE PIT.
C. PLACE PLANTS IN PIT INSURING ROOTS ARE FACING COMPLETELY DOWNWARD.
D. HEEL IN SOIL AROUND PLANT AND PROCEED TO NEXT PLANTING LOCATION.
E. NEWLY PLANTED PLANTS NEED TO BE FASTENED TO THE SUBSTRATE FOR THE ESTABLISHMENT OF NEW ROOTS.
F. ROOTS SHALL BE SPREAD IN THEIR NORMAL POSITION. ALL BROKEN OR FRAYED ROOTS HALL BE CUT OFF CLEANLY.
G. THE DIAMETER OF THE PITS FOR ALL VEGETATIVE STOCK SHALL BE AT LEAST THREE TIMES THE DIAMETER OF THE ROOT MASS. PLANT PIT WALL SHALL BE SCARIFIED PRIOR TO PLANT INSTALLATION.
H. SET THE PLANTS UPRIGHT, IN THE CENTER OF THE PIT. THE BOTTOM OF THE ROOT MASS SHOULD BE RESTING ON UNDISTURBED SOIL.
I. PLACE THE BACKFILL AROUND THE BASE AND SIDES OF THE ROOT MASS, AND WORK EACH LAYER TO SETTLE BACKFILL AND TO ELIMINATE VOIDS AND AIR POCKETS. WHEN PIT IS APPROXIMATELY 2/3 FULL, WATER THOROUGHLY BEFORE PLACING REMAINDER OF THE BACKFILL. WATER AGAIN AFTER PLACING FINAL LAYER OF BACKFILL.
J. BROKEN OR DAMAGED PARTS WILL BE CUT BACK TO UNDAMAGED TISSUE, LEAVING AS MUCH GREEN BASAL TISSUE AS POSSIBLE ABOVE THE ROOTS. IF MORE THAN FIFTY PERCENT (50%) OF THE PLANT IS DAMAGED THEN CONTRACTOR SHALL REPLACE THE PLANT.

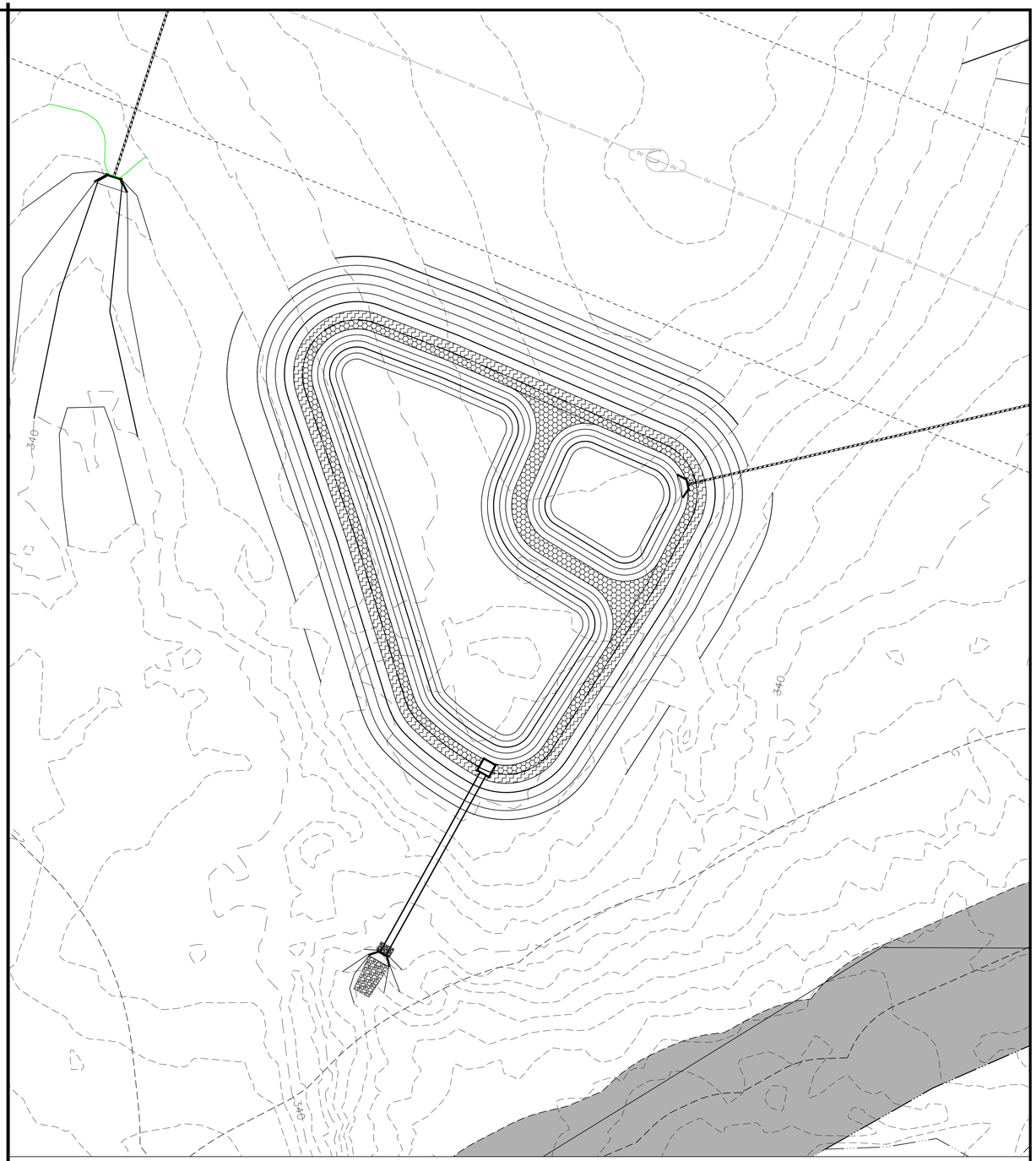
CONTAINER STOCK / BARE ROOT
A. STOCK SHALL HAVE BEEN GROWN IN A CONTAINER LONG ENOUGH FOR THE ROOT SYSTEM TO HAVE DEVELOPED SUFFICIENTLY TO HOLD ITS SOIL TOGETHER ONCE REMOVED FROM THE CONTAINER.
B. CONTAINER PLANTS WILL NEED TO BE WATERED REGULARLY AND PLACED IN SHADY CONDITIONS UNTIL PLANTING OCCURS.
C. BARE ROOT PLANTS ARE FOR IMMEDIATE PLANTING, OTHERWISE SEE D) BELOW.
D. IF BARE ROOTS SPECIMENS ARE NOT TO BE PLANTED WITHIN FOUR (4) DAYS, TEMPORARY HOLDING OF BARE ROOT SPECIMENS ARE TO BE COVERED ENTIRELY BY A SUITABLE MEDIUM (ETC. SOIL, SAWDUST, MULCH OR THE LIKE) AND WATERED REGULARLY SO AS TO NOT DRY OUT.

PLANT LOCATIONS
A. NEW PLANTINGS SHALL BE LOCATED WHERE SHOWN ON PLAN EXCEPT WHERE CHANGES HAVE BEEN MADE IN PROPOSED CONSTRUCTION.
B. NECESSARY ADJUSTMENTS SHALL BE MADE ONLY AFTER APPROVAL BY THE OWNER OR THE OWNER'S REPRESENTATIVE.

WATER
WATER SHALL BE POTABLE AND SHALL NOT CONTAIN ELEMENTS TOXIC TO PLANT LIFE.

PLANTING SCHEDULE

1. ONCE THE GRADING IS COMPLETE, THE CONTRACTOR SHALL REQUEST AN ON-SITE INSPECTION AND AN AS-BUILT SURVEY PRIOR TO INSTALLATION OF THE STORMWATER MANAGEMENT FACILITY PLANTS. IF THE CONTRACTOR PLANTS THE PROPOSED VEGETATION PRIOR TO AN AS-BUILT SURVEY (AND SUBSEQUENT APPROVAL), ANY CHANGES TO THE GRADING / RE-PLANTING OF PLANTS WILL BE AT THE CONTRACTOR'S EXPENSE.
2. ONCE THE ENGINEER HAS APPROVED THE AS-BUILT GRADING, THE CONTRACTOR SHALL PLANT THE PROPOSED STORMWATER MANAGEMENT FACILITY PLANTS SHOWN ON THE LANDSCAPE PLAN FOR THE FACILITY. AFTER COMPLETION OF THE PLANTING, THE LANDSCAPE CONTRACTOR SHALL PROVIDE A LETTER TO THE ENGINEER CERTIFYING THAT THE PLANTS HAVE BEEN INSTALLED PER THE APPROVED STORMWATER MANAGEMENT FACILITY PLANTING PLAN.
3. OPTIMAL PLANTING PERIODS RANGE APPROXIMATELY FROM APRIL 15TH THRU JUNE 30TH AND SEPTEMBER 1ST THRU OCTOBER 31ST. FOR FINAL DETERMINATION OF THE SITE'S PLANTING PERIOD, THE CONTRACTOR SHALL COORDINATE WITH A LANDSCAPE PROFESSIONAL REGARDING SCHEDULING FOR PLANT INSTALLATION.
4. IT IS RECOMMENDED THAT THE CONTRACTOR TAKE MEASURES TO PREVENT WILDLIFE FROM DAMAGING OR CONSUMING WETLAND PLANTINGS.



STORMWATER CONTROL MEASURE 'B' LANDSCAPE PLAN VIEW
1" = 20'

GRAPHIC SCALE
0 10 20 40
1 inch = 20 ft.

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

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REVISIONS

NO. DATE

PLAN INFORMATION

PROJECT NO.	202011039
FILENAME	2020110039-SWB
CHECKED BY	JES
DRAWN BY	HDR
SCALE	1" = 20'
DATE	05. 14. 2021

SHEET

STORMWATER CONTROL MEASURE 'B' LANDSCAPE PLAN

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PERMEABLE SYNTHETIC TURF FIELD AREA SCM 'C' CONSTRUCTION SPECIFICATIONS

GENERAL NOTES

1. PRIOR TO CONSTRUCTION, ANY DISCREPANCIES IN THE PLANS AND NOTES SHALL BE BROUGHT TO THE DESIGN ENGINEER'S ATTENTION IMMEDIATELY.
2. THE FINAL CERTIFICATION FOR THIS FACILITY WILL INCLUDE A CERTIFICATION BY THE GEOTECHNICAL ENGINEER THAT THE PROJECT WAS CONSTRUCTED PER THE APPROVED PLANS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE ON-SITE GEOTECHNICAL ENGINEER FOR OBSERVATION AND TESTING. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT OBSERVATION, TESTING, AND CERTIFICATION EFFORTS ARE COORDINATED WITH THE DESIGN ENGINEER AND THE GEOTECHNICAL ENGINEER.
3. ALL CONSTRUCTION ACTIVITY RELATED TO THE PROPOSED STORMWATER CONTROL MEASURE SHALL BE PER THE DETAILS AND SPECIFICATIONS SHOWN IN THESE DRAWINGS. SOILS, COMPACTION, AND OTHER MISCELLANEOUS DETAILS AND SPECIFICATIONS MAY BE MODIFIED PER THE RECOMMENDATIONS OF THE ON-SITE GEOTECHNICAL ENGINEER. HOWEVER, PRIOR TO IMPLEMENTATION, THE DESIGN ENGINEER SHALL BE NOTIFIED OF ANY DEVIATION FROM THESE DESIGN DRAWINGS, INCLUDING SHOP DRAWINGS FOR ANY PROPOSED MODIFICATION.
4. ALL OSHA REQUIREMENTS FOR EXCAVATIONS (SHORING, DEPTH, ETC.) ARE THE RESPONSIBILITY OF THE CONTRACTOR. IF REQUIRED, THE CONTRACTOR SHALL PROVIDE AN EXCAVATION PLAN TO BE SEALED BY A NC P.E. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE IF AN EXCAVATION PLAN IS REQUIRED. THE JOHN R. MCADAMS COMPANY ASSUMES NO RESPONSIBILITY FOR ANY EXCAVATION DESIGN RELATED TO SAFETY OR OSHA REQUIREMENTS.
5. IT IS ANTICIPATED THAT DEWATERING WILL BE NECESSARY IN THE EXCAVATION AREAS. THEREFORE, THE CONTRACTOR SHALL FURNISH, INSTALL, OPERATE, AND MAINTAIN ANY PUMPING EQUIPMENT, ETC. NEEDED FOR REMOVAL OF WATER FROM VARIOUS PARTS OF THE STORMWATER CONTROL MEASURE SITE. DURING PLACEMENT OF FILL WITHIN THESE AREAS, THE CONTRACTOR SHALL KEEP THE WATER LEVEL BELOW THE BOTTOM OF THE EXCAVATION / CONSTRUCTION AREAS. THE MANNER IN WHICH THE WATER IS REMOVED SHALL BE SUCH THAT THE EXCAVATION BOTTOM AND SIDE SLOPES ARE STABLE, WITH NO SEDIMENT DISCHARGED FROM THE SITE (I.E. PUMPED WATER MAY NEED TO BE DIRECTED TO AN APPROVED EROSION CONTROL DEVICE SUCH AS A DIRT BAG (ACF ENVIRONMENTAL), OR ENGINEER APPROVED EQUIVALENT, PRIOR TO DISCHARGE).
6. PRIOR TO CONSTRUCTION, THE ONSITE GEOTECHNICAL ENGINEER SHALL VERIFY THE FILTRATION AND PERMEABILITY ASPECTS OF THE PROPOSED PERMEABLE SYNTHETIC TURF FIELD MATERIALS. SPECIAL ATTENTION SHALL BE PAID TO PREVENT MIGRATION OF FINER SOIL PARTICLES THROUGH UNDERLYING GRAVEL LAYERS.
7. PRIOR TO PLACING THE PERMEABLE TURF FIELD AREA BACKFILL MATERIAL, THE CONTRACTOR SHALL REQUEST AN ON-SITE MEETING WITH THE DESIGN ENGINEER AND THE EROSION CONTROL INSPECTOR TO ENSURE THE UPSTREAM DRAINAGE AREA IS COMPLETELY STABILIZED (I.E. GOOD VEGETATIVE COVER). IF THE CONTRACTOR DECIDES TO PLACE THE BACKFILL FOR THE PERMEABLE TURF FIELD AREA PRIOR TO APPROVAL FROM THE DESIGN ENGINEER AND THE EROSION CONTROL INSPECTOR, THEN THE CONTRACTOR SHALL EXCAVATE / REPLACE, AS NECESSARY, ANY BACKFILL MATERIAL NEEDED FOR THE SYSTEM TO FUNCTION PROPERLY AT HIS / HER EXPENSE SHOULD THE PERMEABLE TURF FIELD AREA NOT FUNCTION PROPERLY (I.E. WILL NOT DRAIN DUE TO SEDIMENT DEPOSITION) DUE TO AN UNSTABILIZED UPSTREAM DRAINAGE AREA.
8. THE GRADES SHOWN ON THIS PLAN ARE FINISHED GRADES. IF THE COMPACTION OR GRADE AFTER CONSTRUCTION IS NOT DETERMINED TO BE SUITABLE BY A FIELD PROFESSIONAL FOR THE SYNTHETIC TURF, THEN THE CONTRACTOR SHALL AMEND THE AREA ABOVE THE AGGREGATE MEDIA AS DIRECTED BY A FIELD PROFESSIONAL.

CONSTRUCTION PREPARATION

1. PRIOR TO PLACEMENT OF THE NEW FILL, THE AREAS ON WHICH FILL IS TO BE PLACED SHALL BE CLEARED AND STRIPPED OF TOPSOIL, TREES, ROOTS, VEGETATION, AND OTHER OBJECTIONABLE MATERIAL. THE AREAS ON WHICH FILL IS TO BE PLACED SHALL BE SCARIFIED.
2. FOUNDATION AREAS MAY REQUIRE UNDERCUTTING OF COMPRESSIBLE AND/OR UNSUITABLE SOILS IN ADDITION TO THAT INDICATED ON THE PLANS. ALL SUCH UNDERCUTTING SHALL BE PERFORMED AT THE DISCRETION OF THE GEOTECHNICAL ENGINEER AND SHALL BE MONITORED AND DOCUMENTED. IN NO CASE SHALL THERE BE AN ATTEMPT TO STABILIZE ANY PORTIONS OF THE FOUNDATION SOILS WITH CRUSHED STONE.

PERMEABLE SYNTHETIC TURF FIELD AREA REQUIREMENTS

1. LIGHT TRACKED CONSTRUCTION EQUIPMENT IS RECOMMENDED FOR THE CONSTRUCTION OF THE SYNTHETIC TURF FIELD TO PREVENT COMPACTION. HOWEVER, TO ENSURE THE FIELDS WILL FUNCTION AS DESIGNED, AFTER EXCAVATION OF THE FIELD AREA IS COMPLETE, HYDRAULIC CONDUCTIVITY TESTS SHALL BE PERFORMED, BY THE ON-SITE GEOTECHNICAL ENGINEER OR LICENSED SOIL SCIENTIST, ON THE SUBGRADE AREAS TO DETERMINE WHETHER OR NOT THE DESIGN/PERMITTED INFILTRATION RATE IS SUITABLE . IF THE INFILTRATION RATE IS NOT AVAILABLE, THE CONTRACTOR SHALL AMEND THE SUBGRADE AREAS AT THE DIRECTION OF THE ON-SITE GEOTECHNICAL ENGINEER.
2. THE SURFACE OF THE SUBGRADE SHALL MEET THE FOLLOWING REQUIREMENTS:
   - 2.1. SOIL SUBGRADE SHALL HAVE A SLOPE OF LESS THAN OR EQUAL TO 0.70%
   - 2.2. THE SOIL SUBGRADE SHALL BE GRADED WHEN DRY AND THE AGGREGATE BASE COURSE AND SYNTHETIC TURF INFILL INSTALLATION SHALL BE COMPLETED AS QUICKLY AS POSSIBLE TO REDUCE RISK OF SOIL SUBGRADE COMPACTION.
3. THE MEDIA SHALL NOT BE MECHANICALLY COMPACTED. IT IS RECOMMENDED TO EITHER WATER OR WALK ON THE MEDIA AS IT IS PLACED.
4. DRAINAGE MEDIA FOR THE PERMEABLE SYNTHETIC TURF FIELD AREA SHALL BE ENCLOSED ON ALL SIDES BY A NON-WOVEN GEOTEXTILE FABRIC. THIS MATERIAL SHALL MEET THE MATERIAL SPECIFICATIONS. GEOTEXTILE FABRIC SHALL NOT BE INSTALLED BETWEEN #78 AND #57 WASHED STONE LAYERS.
5. IF LAYERS OF HARDPAN ARE LOCATED IN THE SOIL UNDER THE FIELD AREA, THESE LAYERS SHALL BE REMOVED AND SOIL AMENDED AT THE DIRECTION OF THE ON-SITE GEOTECHNICAL ENGINEER.

STATEMENT OF RESPONSIBILITY

ALL REQUIRED MAINTENANCE AND INSPECTIONS OF THIS FACILITY SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER, PER THE EXECUTED OPERATION AND MAINTENANCE AGREEMENT FOR THIS FACILITY.

PERMEABLE SYNTHETIC TURF FIELD AREA MATERIAL SPECIFICATIONS

1. THE AGGREGATE LAYERS, INFILL, AND SYNTHETIC TURF SHALL BE IN ACCORDANCE WITH THE SYNTHETIC TURF MATERIAL SPECIFIED ON SFD106.
2. ALL BACKFILL MATERIAL TO BE USED IN CONSTRUCTION OF THE FIELD AREAS SHALL BE PER THE PROJECT SPECIFICATIONS (I.E. WASHED AGGREGATE).
3. THE COLLECTOR DRAIN FOR THE PERMEABLE SYNTHETIC TURF FIELD AREA SHALL BE 12"Ø HDPE DOUBLE-WALLED PERFORATED PIPE AS SPECIFIED. THE PIPE AND FITTINGS SHALL BE TYPE 'S' AND SHALL MEET THE REQUIREMENTS OF AASHTO M-294. THE PERFORATED PIPE SHALL CONTAIN CIRCULAR PERFORATIONS MEETING AASHTO CLASS II REQUIREMENTS. THE PIPE ADJACENT TO THE OUTLET STRUCTURE SHOULD BE SOLID WITHOUT PERFORATIONS. PIPE SOCKS ARE NOT PERMITTED.
4. EMERGENCY/MAINTENANCE DRAW DOWN IS VIA AN 6"Ø PLUG VALVE. THE VALVE SHALL BE OF THE NON-LUBRICATED, ECCENTRIC TYPE WITH RESILIENT FACED PLUGS AND SHALL BE FURNISHED WITH FLANGE JOINT CONNECTIONS. THE VALVE SHALL BE IN ACCORDANCE WITH AWWA C517-09, AND SHALL BE OPERABLE FROM THE INSIDE TOP OF THE CONCRETE OUTLET STRUCTURE VIA A HAND WHEEL.
5. THE 4'Ø INTERNAL DIMENSIONED REINFORCED CONCRETE OUTLET STRUCTURES SHALL BE CONSTRUCTED ACCORDING TO NCDOT STANDARD DETAIL 840.45 WITH A CONCENTRIC CONE SECTION AND PROVIDED WITH A 36"Ø MANHOLE ACCESS AS SHOWN ON OUTLET STRUCTURE DETAIL. PRIOR TO ORDERING, CONTRACTOR TO SUBMIT SHOP DRAWINGS TO THE DESIGN ENGINEER FOR REVIEW / APPROVAL AND SHALL ALSO INCLUDE STEPS (IN ACCORDANCE WITH NCDOT STD. 840.66) AS NECESSARY.

PERMEABLE SYNTHETIC TURF FIELD BACKFILLING SEQUENCE PLACEHOLDER

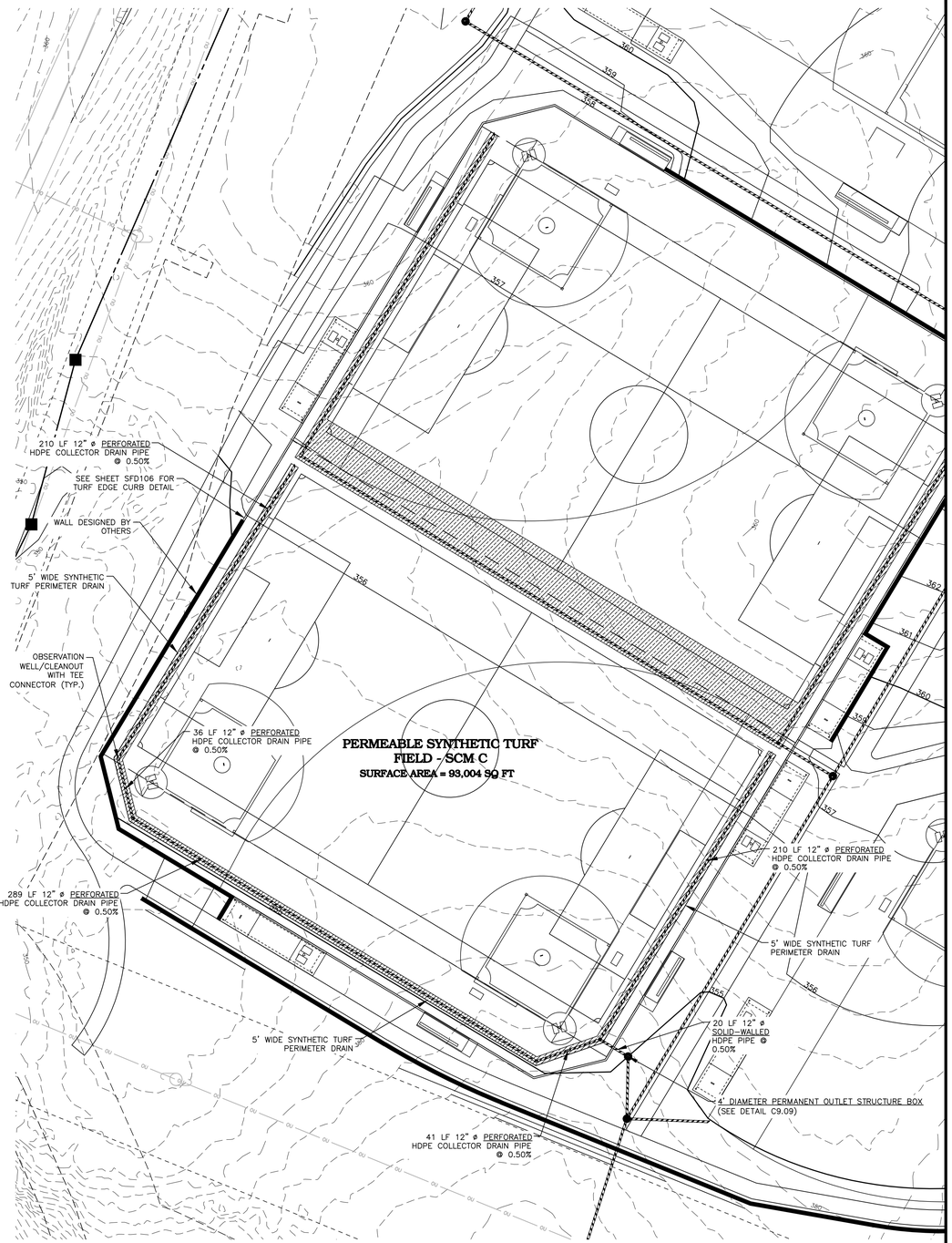
OUTLET STRUCTURE MATERIAL SPECIFICATIONS

1. THE 12"Ø RCP OUTLET BARREL SHALL BE RUBBER-GASKETED CLASS III RCP, MODIFIED BELL AND SPIGOT, MEETING THE REQUIREMENTS OF ASTM C76-LATEST.
2. THE BOX OUTLET STRUCTURE SHALL BE PROVIDED WITH STEPS 12" ON CENTER. STEPS SHALL BE PROVIDED ON THE INNER WALL OF THE BOX. STEPS SHALL BE IN ACCORDANCE WITH NCDOT STD. 840.66. PLEASE REFER TO SHEET C9.11 FOR LOCATION OF THE OUTLET STRUCTURE STEPS.
3. A MANHOLE ACCESS (MINIMUM 36"Ø) TO THE OUTLET STRUCTURE SHALL BE PROVIDED WITH FIBRELITE 36" FL90 MANHOLE COVER AND FRAME OR ENGINEER-APPROVED EQUIVALENT.
4. GEOTEXTILE FABRIC FOR THE 12"Ø RCP OUTLET BARREL JOINTS SHALL BE MIRAFI 140N OR ENGINEER APPROVED EQUAL. THE FABRIC SHOULD BE BETWEEN TWO AND THREE FEET WIDE, BE CENTERED OVER EACH PIPE JOINT, AND COVER A MINIMUM OF ONE-FOOT LENGTH OF EACH PIPE SEGMENT. THE ON-SITE GEOTECHNICAL ENGINEER TO APPROVE FABRIC.

SYSTEM TESTING NOTES

1. POST-CONSTRUCTION, THE PERMEABLE SYNTHETIC TURF FIELD SHOULD BE INSPECTED FOR STANDING WATER DURING AND AFTER A RAIN EVENT. STANDING WATER SHOULD NOT BE PRESENT AND MAY INDICATE POOR INFILTRATION OR CLOGGING. IF A RAIN EVENT CANNOT BE OBSERVED, THE INFILTRATION RATE AND PERMEABILITY OF THE FIELD SHALL BE TESTED IN ACCORDANCE WITH THE EN 12616 AND ASTM D2434 METHODOLOGY, RESPECTIVELY, TO DEMONSTRATE THAT IT IS REASONABLY CONSISTENT WITH THE THEORETICAL INFILTRATION RATE AND PERMEABILITY. THE CONTRACTOR SHALL PROVIDE WRITTEN REPORTS TO THE ENGINEER VERIFYING THE ABSENCE OF STANDING WATER AND/OR INFILTRATION RATE AND PERMEABILITY.

NOTE: SEE SPORT FIELD DETAIL SHEETS FOR SYNTHETIC TURF PROFILE, CONCRETE CURB, AND PERIMETER DRAIN DETAILS.



PERMEABLE SYNTHETIC TURF FIELD SCM 'C' PLAN VIEW
1" = 40'

GRAPHIC SCALE
0 20 40 80
1 inch = 40 ft.

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

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11624 LOUISBURG ROAD
ROLESVILLE, NORTH CAROLINA

REVISIONS

NO.	DATE

PLAN INFORMATION

PROJECT NO.	202011039
FILENAME	2020110039-SWD
CHECKED BY	JES
DRAWN BY	HDR
SCALE	1" = 40'
DATE	05. 28. 2021

SHEET

STORMWATER CONTROL MEASURE 'C' PLAN VIEW

C9.08

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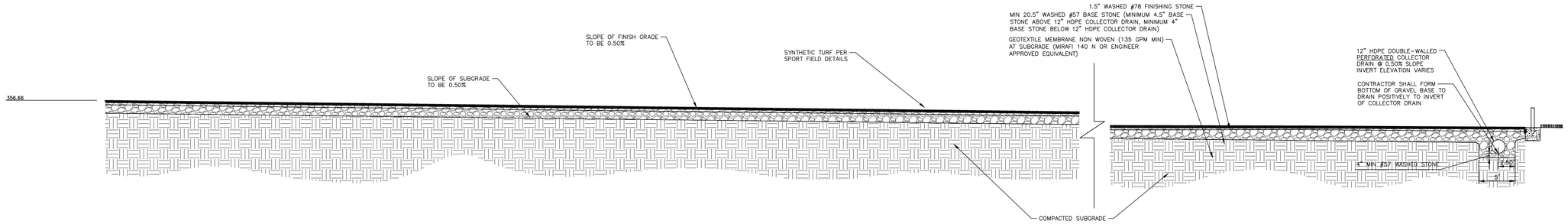

PERMEABLE SYNTHETIC TURF FIELD SCM 'C' PROFILE VIEW

N.T.S.

AASHTO Class II Perforation

The following terminology for perforations is derived from the applicable AASHTO specification. Differences between the specifications are covered in the table below. Class II perforations shall be located in the outside valleys of the corrugations, be circular and/or slotted and evenly spaced around the circumference and length of the pipe. The perforations shall be located in the outside valleys of the corrugations. The water inlet area shall be no less than 0.945 in^2/ft (20 cm^2/m) for pipe diameters 4- through 10-inch (100 - 250mm), 1.42 in^2/ft (30 cm^2/m) for pipe diameters 12- through 18-inch (300 - 450 mm) and 1.89 in^2/ft (40 cm^2/m) for pipe diameters larger than and equal to 24 inches (600 mm). Table 1 below represents ADS standard perforation patterns for AASHTO Class II. Patterns indicated with an asterisk are a made to order product and should allow for additional lead-time when ordering.

Nominal I.D.		Perforation Type	Maximum Slot Length or Diameter		Maximum Slot Width		Minimum Inlet Area	
in	mm		in	mm	in	mm	in^2/ft	cm^2/m
*4	100	Slot	0.875	22	0.125	3	1.0	21
*6	150	Slot	0.875	22	0.125	3	1.0	21
*8	200	Slot	1.18	30	0.125	3	1.0	21
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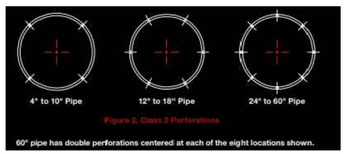
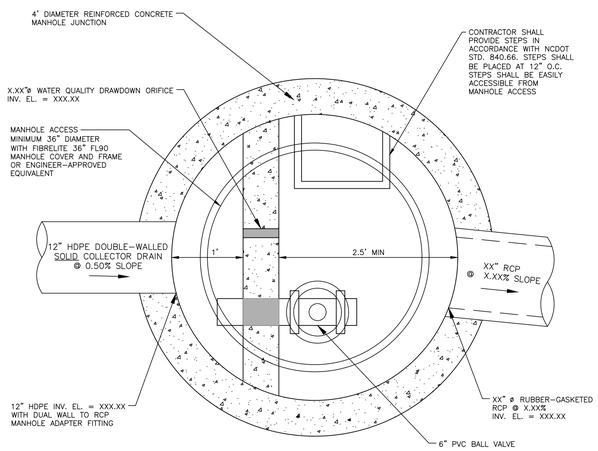
54	1350	Circular	0.375	9.5	-	-	2.0	42
60	1500	Circular	0.375	9.5	-	-	2.0	42

* Denotes perforation pattern made to order

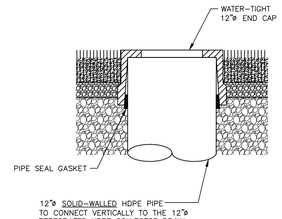


HDPE PIPE PERFORATION REFERENCE TABLE AND DETAIL



OUTLET CONTROL STRUCTURE PLAN VIEW

N.T.S.



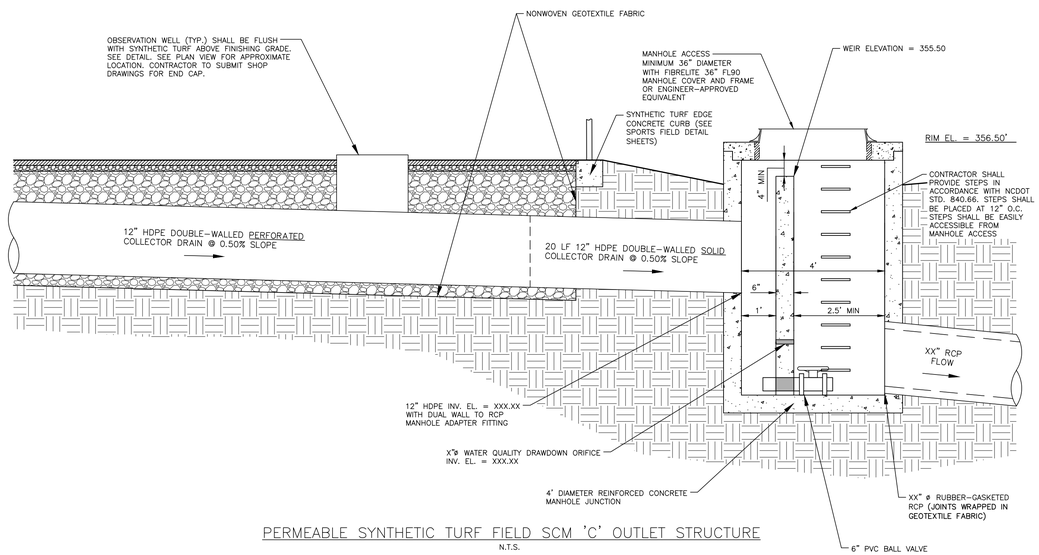
EACH OBSERVATION WELL/CLEANOUT SHALL INCLUDE THE FOLLOWING:

1. UNLESS SPECIFIED BY THE FIELD DESIGN CONSULTANT, OBSERVATION WELLS/CLEANOUTS END CAP SHALL EXTEND ABOVE FINISHED GRADE TO BE FLUSH WITH SYNTHETIC TURF. IF FIELD DESIGN CONSULTANT DIRECTS THE END CAPS TO BE BELOW THE SYNTHETIC TURF, MAGNETIC CAPS MUST BE PROVIDED.

2. THE END CAP TOP LID SHALL BE HIGH IMPACT PLASTIC THAT WILL WITHSTAND ULTRAVIOLET RAYS.

OBSERVATION WELL/CLEANOUT DETAIL

N.T.S.



PERMEABLE SYNTHETIC TURF FIELD SCM 'C' OUTLET STRUCTURE

N.T.S.

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

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REVISIONS

NO. DATE

PLAN INFORMATION

PROJECT NO. 202011039
FILENAME 2020110039-SWD
CHECKED BY JES
DRAWN BY HDR
SCALE NTS
DATE 05. 14. 2021

SHEET

STORMWATER CONTROL MEASURE 'C' DETAILS

C9.09

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PERMEABLE SYNTHETIC TURF FIELD AREA SCM 'D' CONSTRUCTION SPECIFICATIONS

GENERAL NOTES

1. PRIOR TO CONSTRUCTION, ANY DISCREPANCIES IN THE PLANS AND NOTES SHALL BE BROUGHT TO THE DESIGN ENGINEER'S ATTENTION IMMEDIATELY.
2. THE FINAL CERTIFICATION FOR THIS FACILITY WILL INCLUDE A CERTIFICATION BY THE GEOTECHNICAL ENGINEER THAT THE PROJECT WAS CONSTRUCTED PER THE APPROVED PLANS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE ON-SITE GEOTECHNICAL ENGINEER FOR OBSERVATION AND TESTING. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT OBSERVATION, TESTING, AND CERTIFICATION EFFORTS ARE COORDINATED WITH THE DESIGN ENGINEER AND THE GEOTECHNICAL ENGINEER.
3. ALL CONSTRUCTION ACTIVITY RELATED TO THE PROPOSED STORMWATER CONTROL MEASURE SHALL BE PER THE DETAILS AND SPECIFICATIONS SHOWN IN THESE DRAWINGS. SOILS, COMPACTION, AND OTHER MISCELLANEOUS DETAILS AND SPECIFICATIONS MAY BE MODIFIED PER THE RECOMMENDATIONS OF THE ON-SITE GEOTECHNICAL ENGINEER. HOWEVER, PRIOR TO IMPLEMENTATION, THE DESIGN ENGINEER SHALL BE NOTIFIED OF ANY DEVIATION FROM THESE DESIGN DRAWINGS, INCLUDING SHOP DRAWINGS FOR ANY PROPOSED MODIFICATION.
4. ALL OSHA REQUIREMENTS FOR EXCAVATIONS (SHORING, DEPTH, ETC.) ARE THE RESPONSIBILITY OF THE CONTRACTOR. IF REQUIRED, THE CONTRACTOR SHALL PROVIDE AN EXCAVATION PLAN TO BE SEALED BY A NC P.E. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE IF AN EXCAVATION PLAN IS REQUIRED. THE JOHN R. MCADAMS COMPANY ASSUMES NO RESPONSIBILITY FOR ANY EXCAVATION DESIGN RELATED TO SAFETY OR OSHA REQUIREMENTS.
5. IT IS ANTICIPATED THAT DEWATERING WILL BE NECESSARY IN THE EXCAVATION AREAS. THEREFORE, THE CONTRACTOR SHALL FURNISH, INSTALL, OPERATE, AND MAINTAIN ANY PUMPING EQUIPMENT, ETC. NEEDED FOR REMOVAL OF WATER FROM VARIOUS PARTS OF THE STORMWATER CONTROL MEASURE SITE. DURING PLACEMENT OF FILL WITHIN THESE AREAS, THE CONTRACTOR SHALL KEEP THE WATER LEVEL BELOW THE BOTTOM OF THE EXCAVATION / CONSTRUCTION AREAS. THE MANNER IN WHICH THE WATER IS REMOVED SHALL BE SUCH THAT THE EXCAVATION BOTTOM AND SIDE SLOPES ARE STABLE, WITH NO SEDIMENT DISCHARGED FROM THE SITE (I.E. PUMPED WATER MAY NEED TO BE DIRECTED TO AN APPROVED EROSION CONTROL DEVICE SUCH AS A DIRT BAG (ACF ENVIRONMENTAL), OR ENGINEER APPROVED EQUIVALENT, PRIOR TO DISCHARGE).
6. PRIOR TO CONSTRUCTION, THE ONSITE GEOTECHNICAL ENGINEER SHALL VERIFY THE FILTRATION AND PERMEABILITY ASPECTS OF THE PROPOSED PERMEABLE SYNTHETIC TURF FIELD MATERIALS. SPECIAL ATTENTION SHALL BE PAID TO PREVENT MIGRATION OF FINER SOIL PARTICLES THROUGH UNDERLYING GRAVEL LAYERS.
7. PRIOR TO PLACING THE PERMEABLE TURF FIELD AREA BACKFILL MATERIAL, THE CONTRACTOR SHALL REQUEST AN ON-SITE MEETING WITH THE DESIGN ENGINEER AND THE EROSION CONTROL INSPECTOR TO ENSURE THE UPSTREAM DRAINAGE AREA IS COMPLETELY STABILIZED (I.E. GOOD VEGETATIVE COVER). IF THE CONTRACTOR DECIDES TO PLACE THE BACKFILL FOR THE PERMEABLE TURF FIELD AREA PRIOR TO APPROVAL FROM THE DESIGN ENGINEER AND THE EROSION CONTROL INSPECTOR, THEN THE CONTRACTOR SHALL EXCAVATE / REPLACE, AS NECESSARY, ANY BACKFILL MATERIAL NEEDED FOR THE SYSTEM TO FUNCTION PROPERLY AT HIS / HER EXPENSE SHOULD THE PERMEABLE TURF FIELD AREA NOT FUNCTION PROPERLY (I.E. WILL NOT DRAIN DUE TO SEDIMENT DEPOSITION) DUE TO AN UNSTABILIZED UPSTREAM DRAINAGE AREA.
8. THE GRADES SHOWN ON THIS PLAN ARE FINISHED GRADES. IF THE COMPACTION OR GRADE AFTER CONSTRUCTION IS NOT DETERMINED TO BE SUITABLE BY A FIELD PROFESSIONAL FOR THE SYNTHETIC TURF, THEN THE CONTRACTOR SHALL AMEND THE AREA ABOVE THE AGGREGATE MEDIA AS DIRECTED BY A FIELD PROFESSIONAL.

CONSTRUCTION PREPARATION

1. PRIOR TO PLACEMENT OF THE NEW FILL, THE AREAS ON WHICH FILL IS TO BE PLACED SHALL BE CLEARED AND STRIPPED OF TOPSOIL, TREES, ROOTS, VEGETATION, AND OTHER OBJECTIONABLE MATERIAL. THE AREAS ON WHICH FILL IS TO BE PLACED SHALL BE SCARIFIED.
2. FOUNDATION AREAS MAY REQUIRE UNDERCUTTING OF COMPRESSIBLE AND/OR UNSUITABLE SOILS IN ADDITION TO THAT INDICATED ON THE PLANS. ALL SUCH UNDERCUTTING SHALL BE PERFORMED AT THE DISCRETION OF THE GEOTECHNICAL ENGINEER AND SHALL BE MONITORED AND DOCUMENTED. IN NO CASE SHALL THERE BE AN ATTEMPT TO STABILIZE ANY PORTIONS OF THE FOUNDATION SOILS WITH CRUSHED STONE.

PERMEABLE SYNTHETIC TURF FIELD AREA REQUIREMENTS

1. LIGHT TRACKED CONSTRUCTION EQUIPMENT IS RECOMMENDED FOR THE CONSTRUCTION OF THE SYNTHETIC TURF FIELD TO PREVENT COMPACTION. HOWEVER, TO ENSURE THE FIELDS WILL FUNCTION AS DESIGNED, AFTER EXCAVATION OF THE FIELD AREA IS COMPLETE, HYDRAULIC CONDUCTIVITY TESTS SHALL BE PERFORMED, BY THE ON-SITE GEOTECHNICAL ENGINEER OR LICENSED SOIL SCIENTIST, ON THE SUBGRADE AREAS TO DETERMINE WHETHER OR NOT THE DESIGN/PERMITTED INFILTRATION RATE IS SUITABLE . IF THE INFILTRATION RATE IS NOT AVAILABLE, THE CONTRACTOR SHALL AMEND THE SUBGRADE AREAS AT THE DIRECTION OF THE ON-SITE GEOTECHNICAL ENGINEER.
2. THE SURFACE OF THE SUBGRADE SHALL MEET THE FOLLOWING REQUIREMENTS:
   - 2.1. SOIL SUBGRADE SHALL HAVE A SLOPE OF LESS THAN OR EQUAL TO 0.70%
   - 2.2. THE SOIL SUBGRADE SHALL BE GRADED WHEN DRY AND THE AGGREGATE BASE COURSE AND SYNTHETIC TURF INFILL INSTALLATION SHALL BE COMPLETED AS QUICKLY AS POSSIBLE TO REDUCE RISK OF SOIL SUBGRADE COMPACTION.
3. THE MEDIA SHALL NOT BE MECHANICALLY COMPACTED. IT IS RECOMMENDED TO EITHER WATER OR WALK ON THE MEDIA AS IT IS PLACED.
4. DRAINAGE MEDIA FOR THE PERMEABLE SYNTHETIC TURF FIELD AREA SHALL BE ENCLOSED ON ALL SIDES BY A NON-WOVEN GEOTEXTILE FABRIC. THIS MATERIAL SHALL MEET THE MATERIAL SPECIFICATIONS. GEOTEXTILE FABRIC SHALL NOT BE INSTALLED BETWEEN #78 AND #57 WASHED STONE LAYERS.
5. IF LAYERS OF HARDPAN ARE LOCATED IN THE SOIL UNDER THE FIELD AREA, THESE LAYERS SHALL BE REMOVED AND SOIL AMENDED AT THE DIRECTION OF THE ON-SITE GEOTECHNICAL ENGINEER.

STATEMENT OF RESPONSIBILITY

ALL REQUIRED MAINTENANCE AND INSPECTIONS OF THIS FACILITY SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER, PER THE EXECUTED OPERATION AND MAINTENANCE AGREEMENT FOR THIS FACILITY.

PERMEABLE SYNTHETIC TURF FIELD AREA MATERIAL SPECIFICATIONS

1. THE AGGREGATE LAYERS, INFILL, AND SYNTHETIC TURF SHALL BE IN ACCORDANCE WITH THE SYNTHETIC TURF MATERIAL SPECIFIED ON SFD106.
2. ALL BACKFILL MATERIAL TO BE USED IN CONSTRUCTION OF THE FIELD AREAS SHALL BE PER THE PROJECT SPECIFICATIONS (I.E. WASHED AGGREGATE).
3. THE COLLECTOR DRAIN FOR THE PERMEABLE SYNTHETIC TURF FIELD AREA SHALL BE 12"Ø HDPE DOUBLE-WALLED PERFORATED PIPE AS SPECIFIED. THE PIPE AND FITTINGS SHALL BE TYPE 'S' AND SHALL MEET THE REQUIREMENTS OF AASHTO M-294. THE PERFORATED PIPE SHALL CONTAIN CIRCULAR PERFORATIONS MEETING AASHTO CLASS II REQUIREMENTS. THE PIPE ADJACENT TO THE OUTLET STRUCTURE SHOULD BE SOLID WITHOUT PERFORATIONS. PIPE SOCKS ARE NOT PERMITTED.
4. EMERGENCY/MAINTENANCE DRAW DOWN IS VIA AN 6"Ø PLUG VALVE. THE VALVE SHALL BE OF THE NON-LUBRICATED, ECCENTRIC TYPE WITH RESILIENT FACED PLUGS AND SHALL BE FURNISHED WITH FLANGE JOINT CONNECTIONS. THE VALVE SHALL BE IN ACCORDANCE WITH AWWA C517-09, AND SHALL BE OPERABLE FROM THE INSIDE TOP OF THE CONCRETE OUTLET STRUCTURE VIA A HAND WHEEL.
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PERMEABLE SYNTHETIC TURF FIELD BACKFILLING SEQUENCE PLACEHOLDER

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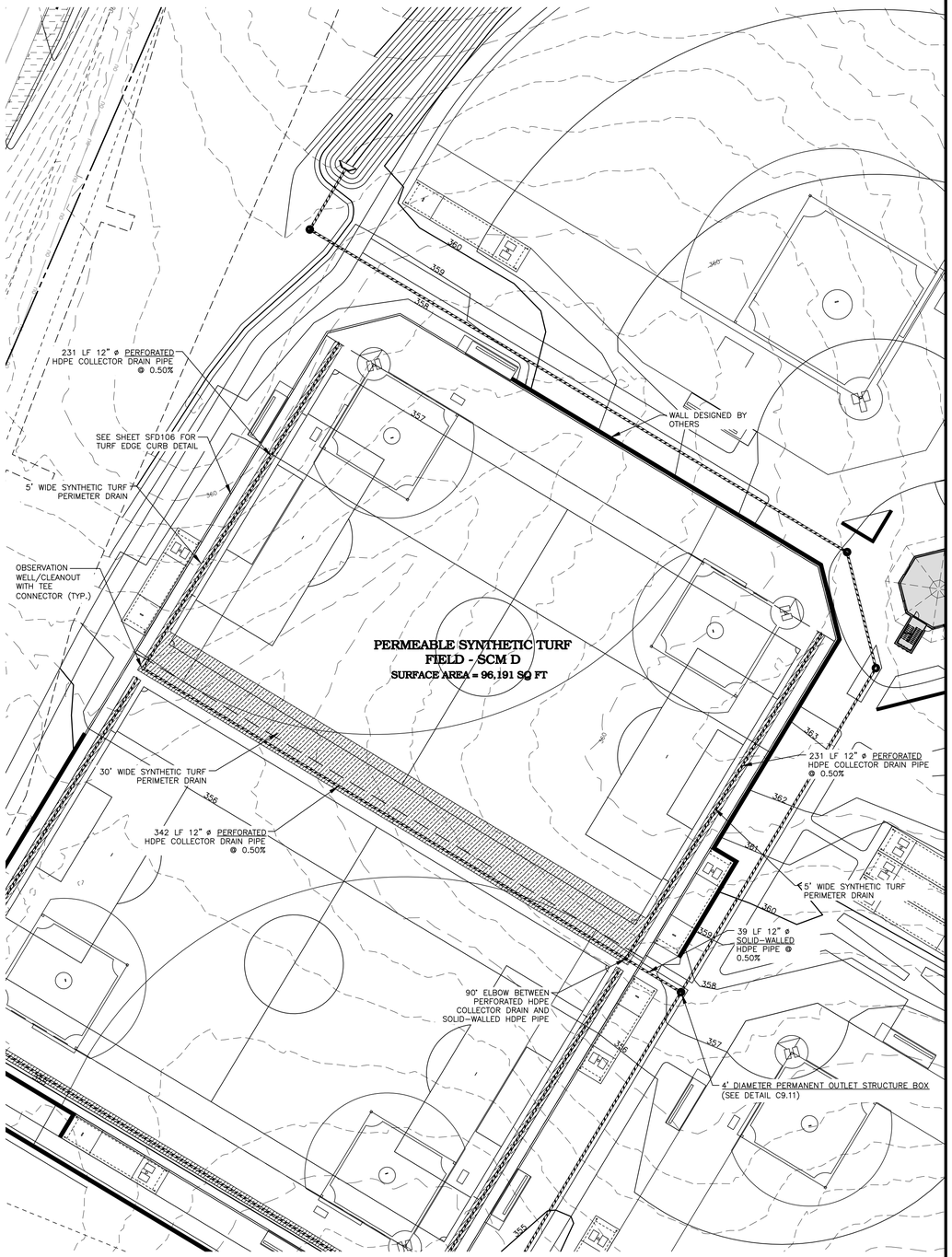

PERMEABLE SYNTHETIC TURF FIELD SCM 'D' PLAN VIEW
1" = 40'

GRAPHIC SCALE
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1 inch = 40 ft.

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NO.	DATE

PLAN INFORMATION

PROJECT NO.	202011039
FILENAME	2020110039-SWD
CHECKED BY	JES
DRAWN BY	HDR
SCALE	1" = 40'
DATE	05. 28. 2021

SHEET

STORMWATER CONTROL MEASURE 'D' PLAN VIEW

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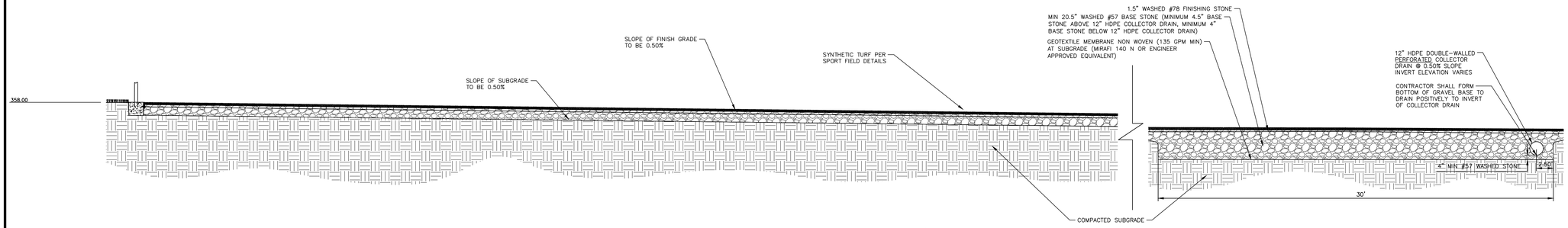

PERMEABLE SYNTHETIC TURF FIELD SCM 'D' PROFILE VIEW

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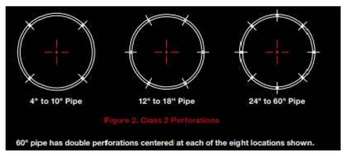
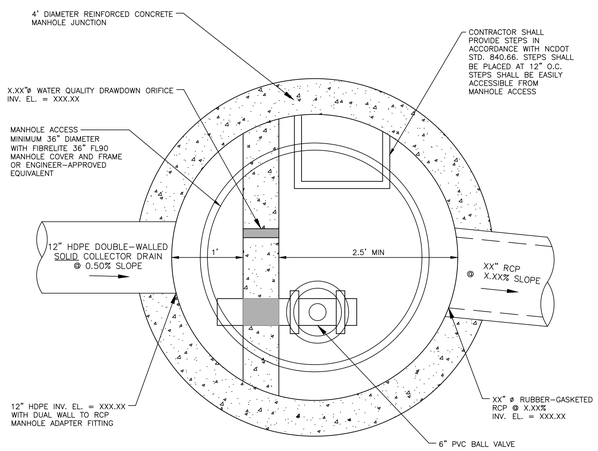
* Denotes perforation pattern made to order

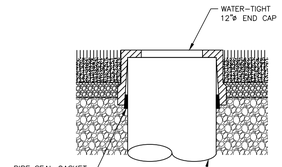


HDPE PIPE PERFORATION REFERENCE TABLE AND DETAIL



OUTLET CONTROL STRUCTURE PLAN VIEW

N.T.S.



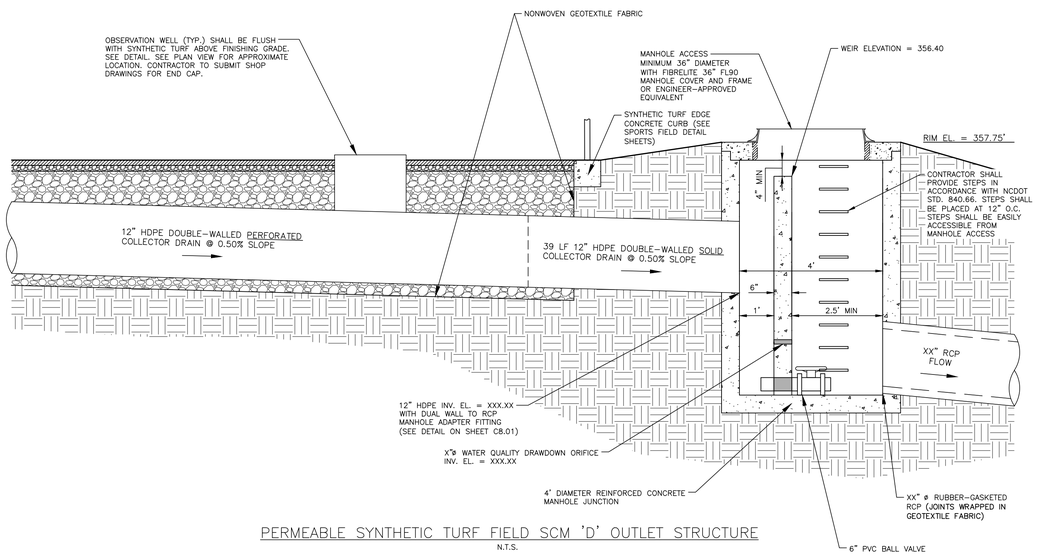
EACH OBSERVATION WELL/CLEANOUT SHALL INCLUDE THE FOLLOWING:

1. UNLESS SPECIFIED BY THE FIELD DESIGN CONSULTANT, OBSERVATION WELLS/CLEANOUTS END CAP SHALL EXTEND ABOVE FINISHED GRADE TO BE FLUSH WITH SYNTHETIC TURF. IF FIELD DESIGN CONSULTANT DIRECTS THE END CAPS TO BE BELOW THE SYNTHETIC TURF, MAGNETIC CAPS MUST BE PROVIDED.

2. THE END CAP TOP LID SHALL BE HIGH IMPACT PLASTIC THAT WILL WITHSTAND ULTRAVIOLET RAYS.

OBSERVATION WELL/CLEANOUT DETAIL

N.T.S.



PERMEABLE SYNTHETIC TURF FIELD SCM 'D' OUTLET STRUCTURE

N.T.S.

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

McADAMS

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PHONE: 919.554.6582

FRAZIER FARM PARK
30% CONSTRUCTION DRAWINGS
11624 LOUISBURG ROAD
ROLESVILLE, NORTH CAROLINA

REVISIONS

NO. DATE

PLAN INFORMATION

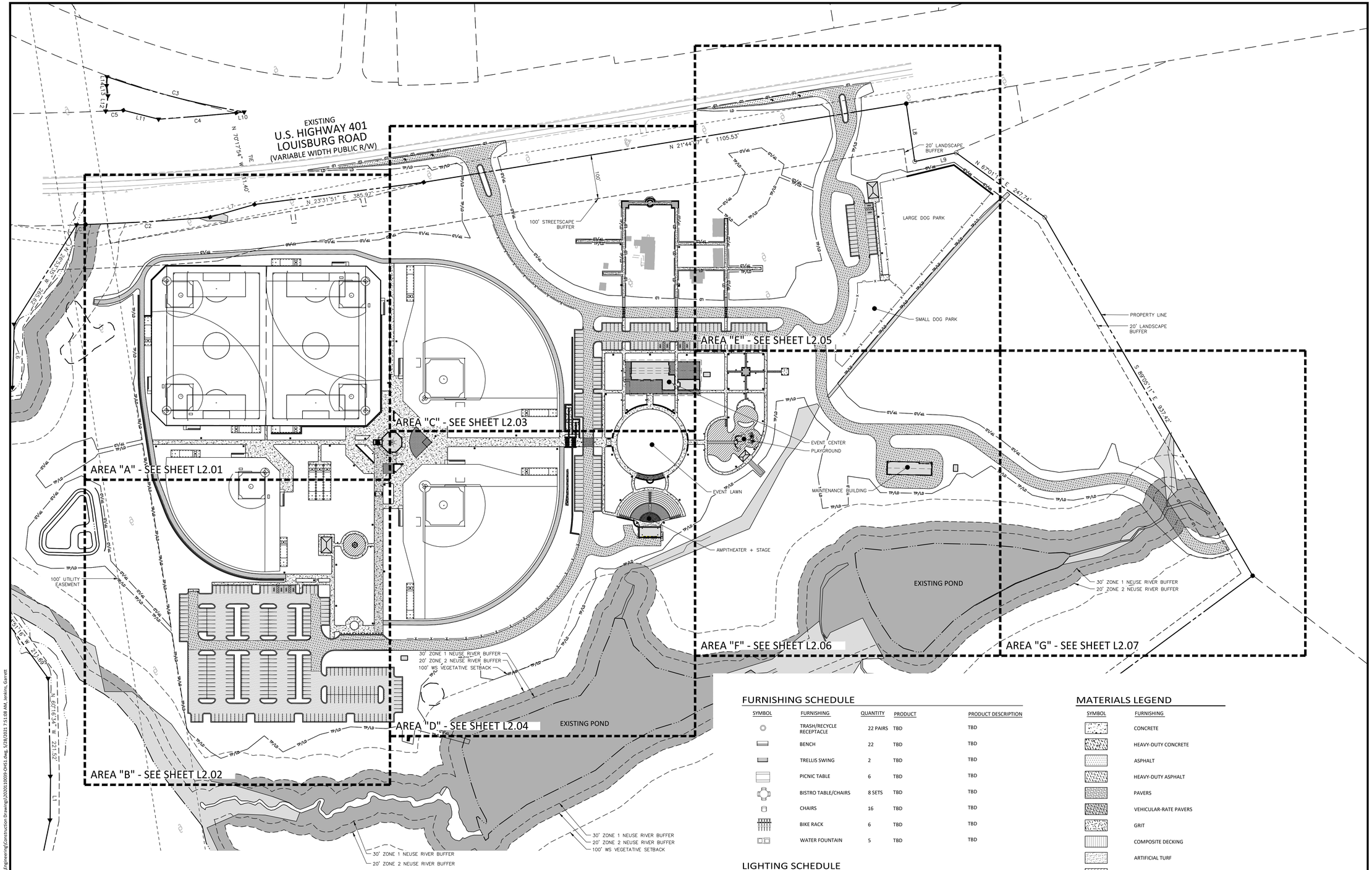
PROJECT NO. 202011039
FILENAME 2020110039-SWD
CHECKED BY JES
DRAWN BY HDR
SCALE NTS
DATE 05. 14. 2021

SHEET

STORMWATER CONTROL MEASURE 'D' DETAILS

C9.11

M:\Projects\Town\Rolesville\202011039 Frazier Farm Park\04-Production\Water Resources\Prelim Design\Current Drawing\2020110039-SWD.dwg, 5/27/2021 10:24:28 PM, Rosa, Heather



FURNISHING SCHEDULE

SYMBOL	FURNISHING	QUANTITY	PRODUCT	PRODUCT DESCRIPTION
	TRASH/RECYCLE RECEPTACLE	22 PAIRS	TBD	TBD
	BENCH	22	TBD	TBD
	TRELLIS SWING	2	TBD	TBD
	PICNIC TABLE	6	TBD	TBD
	BISTRO TABLE/CHAIRS	8 SETS	TBD	TBD
	CHAIRS	16	TBD	TBD
	BIKE RACK	6	TBD	TBD
	WATER FOUNTAIN	5	TBD	TBD

LIGHTING SCHEDULE

SYMBOL	FURNISHING	QUANTITY	PRODUCT	PRODUCT DESCRIPTION
	14' PEDESTRIAN LIGHT	47	TBD	TBD
	30' AREA LIGHT	0	TBD	TBD
	UPLIGHT	12	TBD	TBD
	STEP / WALL LIGHT	48	TBD	TBD
	BOLLARD LIGHT	20	TBD	TBD
	PATH LIGHT	22	TBD	TBD
	STRIP LIGHT	410 LF	TBD	TBD

MATERIALS LEGEND

SYMBOL	FURNISHING
	CONCRETE
	HEAVY-DUTY CONCRETE
	ASPHALT
	HEAVY-DUTY ASPHALT
	PAVERS
	VEHICULAR-RATE PAVERS
	GRIT
	COMPOSITE DECKING
	ARTIFICIAL TURF
	SAFETY PLAY SURFACE

GENERAL NOTES:

1. FORTHCOMING

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF ROLESVILLE ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

GRAPHIC SCALE
0 50 100 200
1 inch = 100 ft.

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

McAdams
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FRAZIER FARM PARK
30% CONSTRUCTION DRAWINGS
11624 LOUISBURG ROAD
ROLESVILLE, NORTH CAROLINA

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 2020 SAWETA NAMEKAR
PRELIMINARY NOT FOR CONSTRUCTION

REVISIONS

NO.	DATE

PLAN INFORMATION

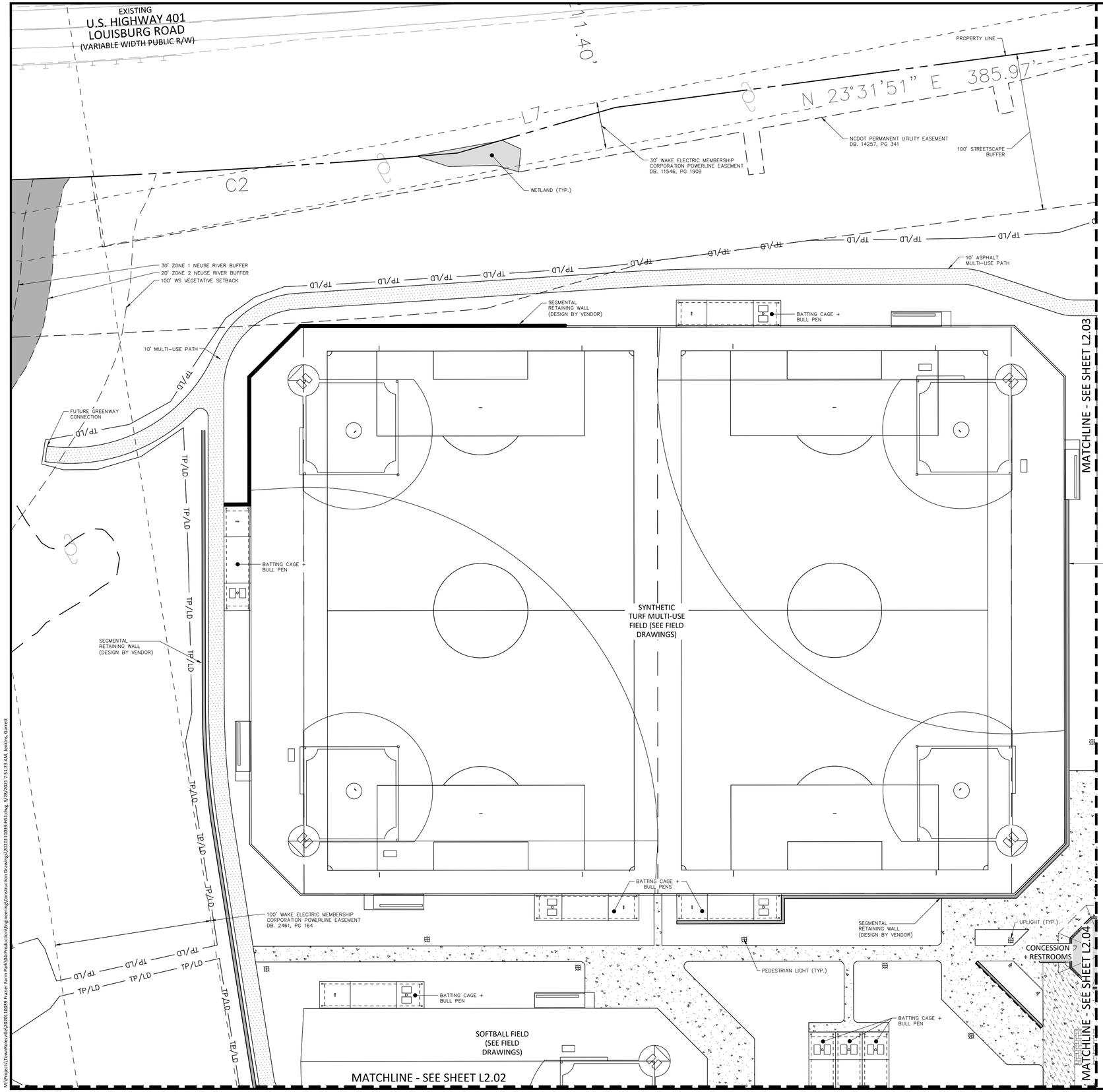
PROJECT NO.	202011039
FILENAME	202011039-OS1
CHECKED BY	SN
DRAWN BY	GLJ
SCALE	1"=100'
DATE	05. 14. 2021

SHEET

OVERALL HARDSCAPE PLAN

L2.00

M:\Projects\TownRolesville\202011039 Frazier Farm Park\04-Production\Engineering\Construction Drawings\202011039-OHS1.dwg, 5/28/2021 7:51:38 AM, Jenkins, Garrett



SITE LEGEND

- SIGNAGE
- AREA LIGHT (SEE SHEET L200)
- PEDESTRIAN LIGHT (SEE SHEET L200)
- POWER POLE
- ACC VAN — ACCESSIBLE PARKING STALL
- VAN ACCESSIBLE PARKING STALL
- PROPERTY LINE
- EASEMENT LINE
- LD — LIMITS OF DISTRUBANCE
- CENTERLINE
- EXISTING CHAINLINK FENCE
- PROPOSED FENCE
- SF/TP — TREE PROTECTION/SILT FENCE
- TP — TREE PROTECTION FENCE
- TS — TREE PROTECTION PHASE 2 FENCE
- HANDRAIL
- EXPANSION JOINT
- SCORE JOINT

MATERIALS LEGEND

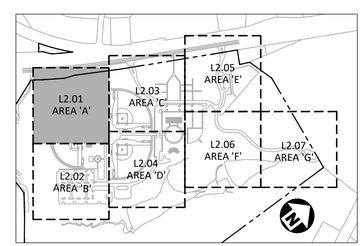
SYMBOL	FURNISHING
	CONCRETE
	HEAVY-DUTY CONCRETE
	ASPHALT
	HEAVY-DUTY ASPHALT
	PAVERS
	VEHICULAR-RATE PAVERS
	GRIT
	COMPOSITE DECKING
	ARTIFICIAL TURF
	SAFETY PLAY SURFACE

LIGHTING LEGEND

SYMBOL	FURNISHING
	14' PEDESTRIAN LIGHT
	30' AREA LIGHT (NOT USED)
	UPLIGHT
	STEP LIGHT
	BOLLARD LIGHT
	PATH LIGHT
	STRIP LIGHT

GENERAL NOTES:

1. SEE SHEET L2.00 FOR LIGHT FIXTURE QUANTITIES AND SELECTIONS



INDEX MAP
N.T.S.

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF ROLESVILLE ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

GRAPHIC SCALE
0 15 30 60
1 inch = 30 ft.

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

McADAMS
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FRAZIER FARM PARK
30% CONSTRUCTION DRAWINGS
11624 LOUISBURG ROAD
ROLESVILLE, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 049960 SHWETA NANEKAR — NOT FOR CONSTRUCTION

REVISIONS

NO.	DATE

PLAN INFORMATION

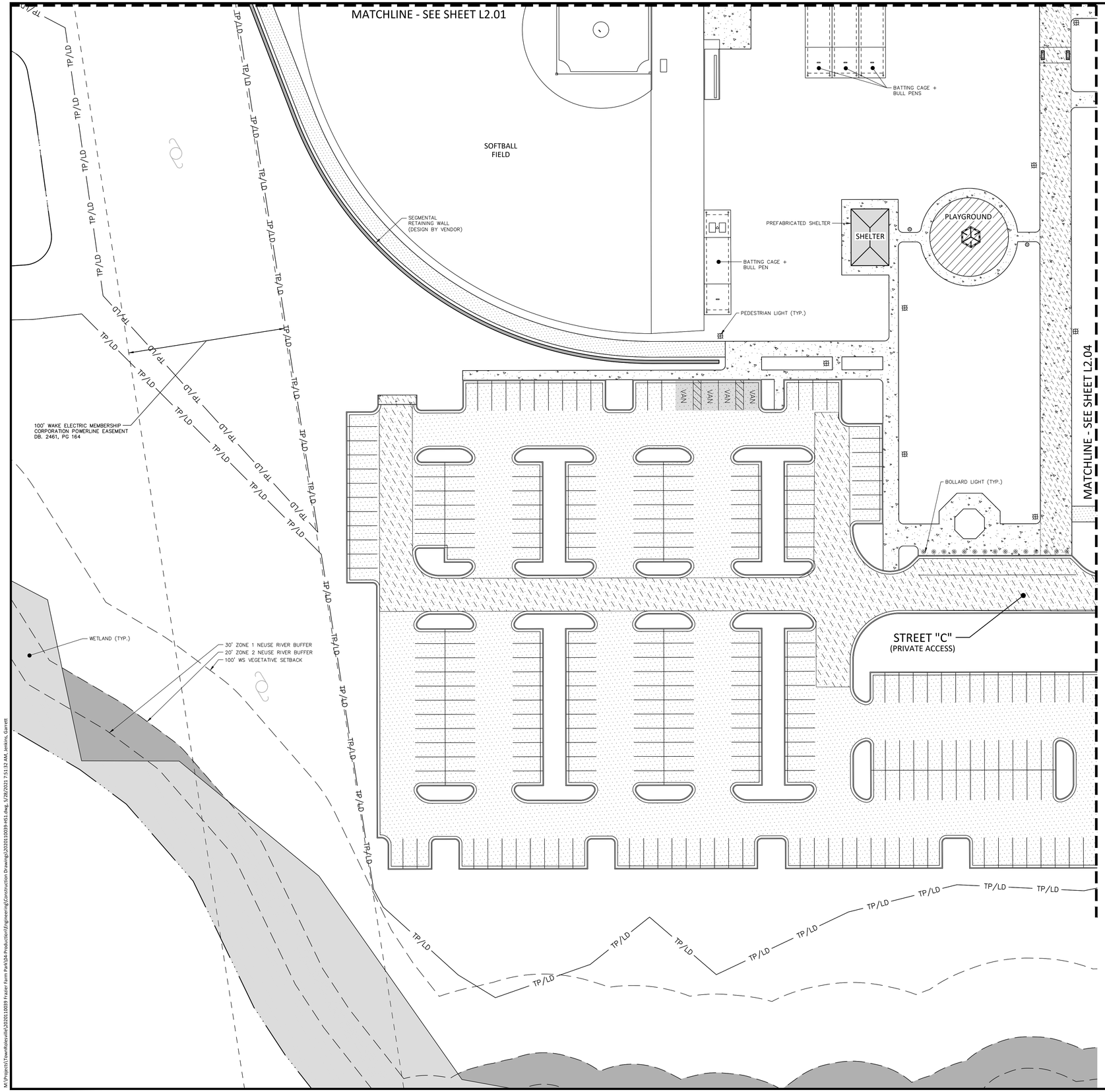
PROJECT NO.	202011039
FILENAME	202011039-S1
CHECKED BY	SN
DRAWN BY	GLJ
SCALE	1"=50'
DATE	05. 14. 2021

SHEET

HARDSCAPE PLAN - AREA 'A'

L2.01

M:\Projects\TownRolesville\202011039 Frazier Farm Park\04-Production\Engineering\Construction Drawings\202011039-S1.dwg, 5/28/2021 7:51:13 AM, Jenkins, Garrett



SITE LEGEND

- SIGNAGE
- AREA LIGHT (SEE SHEET L200)
- PEDESTRIAN LIGHT (SEE SHEET L200)
- POWER POLE
- ACC VAN — ACCESSIBLE PARKING STALL
- VAN ACCESSIBLE PARKING STALL
- PROPERTY LINE
- EASEMENT LINE
- LD — LIMITS OF DISTRUBANCE
- CENTERLINE
- EXISTING CHAINLINK FENCE
- PROPOSED FENCE
- SF/TP — TREE PROTECTION/SILT FENCE
- TP — TREE PROTECTION FENCE
- TS — TREE PROTECTION PHASE 2 FENCE
- HANDRAIL
- EXPANSION JOINT
- SCORE JOINT

MATERIALS LEGEND

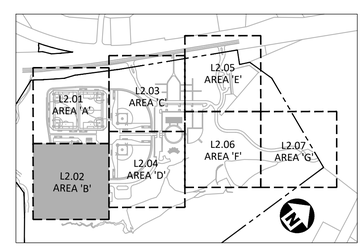
SYMBOL	FURNISHING
	CONCRETE
	HEAVY-DUTY CONCRETE
	ASPHALT
	HEAVY-DUTY ASPHALT
	PAVERS
	VEHICULAR-RATE PAVERS
	GRIT
	COMPOSITE DECKING
	ARTIFICIAL TURF
	SAFETY PLAY SURFACE

LIGHTING LEGEND

SYMBOL	FURNISHING
	14' PEDESTRIAN LIGHT
	30' AREA LIGHT (NOT USED)
	UPLIGHT
	STEP LIGHT
	BOLLARD LIGHT
	PATH LIGHT
	STRIP LIGHT

GENERAL NOTES:

1. SEE SHEET L2.00 FOR LIGHT FIXTURE QUANTITIES AND SELECTIONS



INDEX MAP
N.T.S.

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF ROLESVILLE ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

GRAPHIC SCALE
0 15 30 60
1 inch = 30 ft.

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

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FRAZIER FARM PARK
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11624 LOUISBURG ROAD
ROLESVILLE, NORTH CAROLINA

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 960 SHWETA NAMEKAR — NOT FOR CONSTRUCTION

REVISIONS

NO. DATE

PLAN INFORMATION

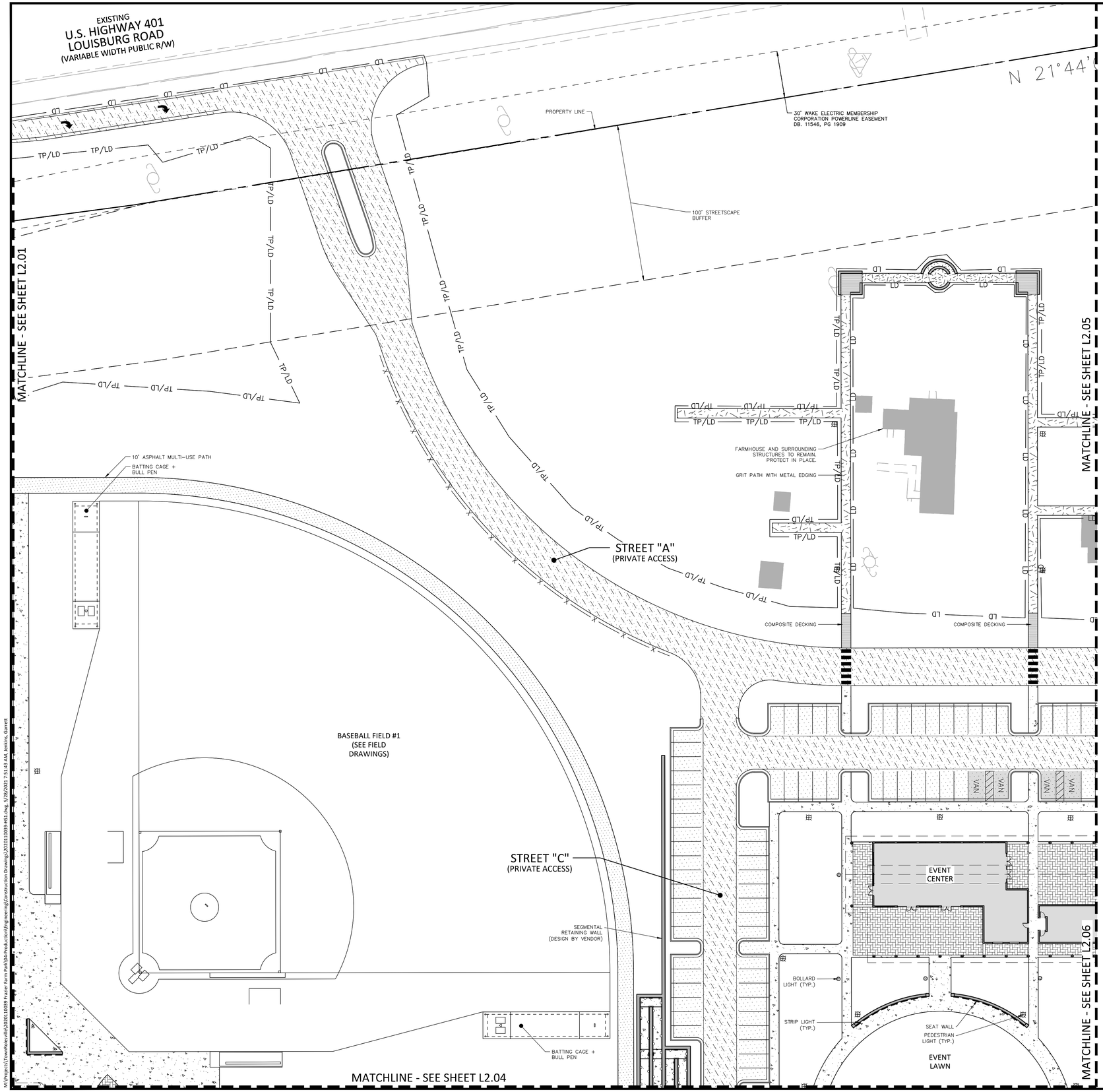
PROJECT NO.	202011039
FILENAME	202011039-S1
CHECKED BY	SN
DRAWN BY	GLJ
SCALE	1"=50'
DATE	05. 14. 2021

SHEET

HARDSCAPE PLAN - AREA 'B'

L2.02

M:\Projects\TownRolesville\s\202011039 Frazier Farm Park\04-Production\Engineering\Construction Drawings\202011039-S1.dwg, 5/28/2021 7:53:12 AM, Jenkins, Garrett



SITE LEGEND

- SIGNAGE
- AREA LIGHT (SEE SHEET L200)
- PEDESTRIAN LIGHT (SEE SHEET L200)
- POWER POLE
- ACC VAN — ACCESSIBLE PARKING STALL
- VAN ACCESSIBLE PARKING STALL
- PROPERTY LINE
- EASEMENT LINE
- LD — LIMITS OF DISTRUBANCE
- CENTERLINE
- EXISTING CHAINLINK FENCE
- X — X — PROPOSED FENCE
- SF/TP — TREE PROTECTION/SILT FENCE
- TP — TREE PROTECTION FENCE
- TS — TREE PROTECTION PHASE 2 FENCE
- HANDRAIL
- EXPANSION JOINT
- SCORE JOINT

MATERIALS LEGEND

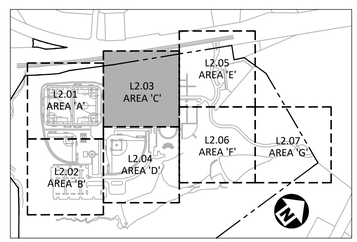
SYMBOL	FURNISHING
	CONCRETE
	HEAVY-DUTY CONCRETE
	ASPHALT
	HEAVY-DUTY ASPHALT
	PAVERS
	VEHICULAR-RATE PAVERS
	GRIT
	COMPOSITE DECKING
	ARTIFICIAL TURF
	SAFETY PLAY SURFACE

LIGHTING LEGEND

SYMBOL	FURNISHING
	14' PEDESTRIAN LIGHT
	30' AREA LIGHT (NOT USED)
	UPLIGHT
	STEP LIGHT
	BOLLARD LIGHT
	PATH LIGHT
	STRIP LIGHT

GENERAL NOTES:

1. SEE SHEET L2.00 FOR LIGHT FIXTURE QUANTITIES AND SELECTIONS



INDEX MAP
N.T.S.

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF ROLESVILLE ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

GRAPHIC SCALE
0 15 30 60
1 inch = 30 ft.

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

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NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1960 SHWETA NANEKAR
PRELIMINARY NOT FOR CONSTRUCTION

REVISIONS

NO.	DATE

PLAN INFORMATION

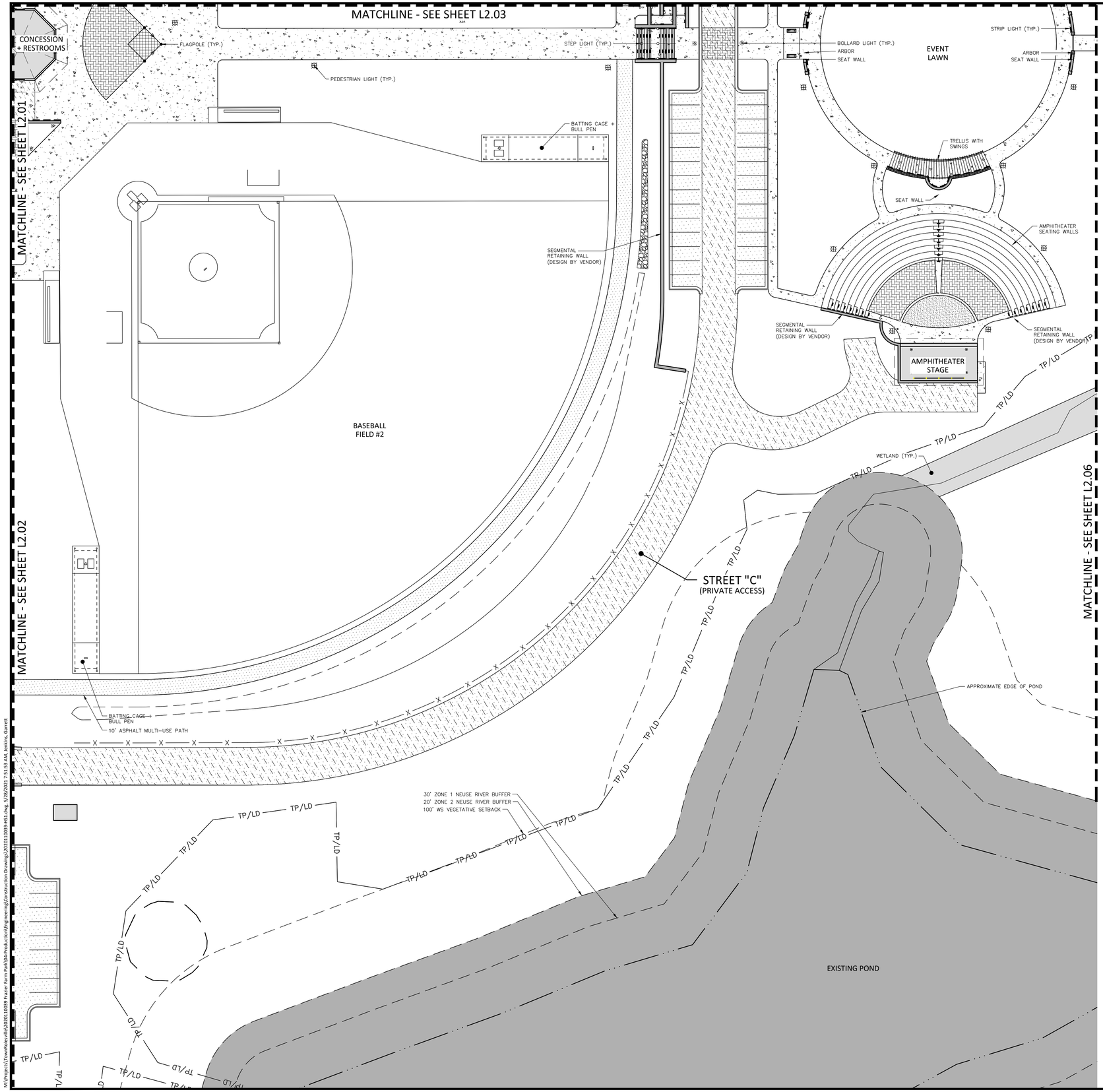
PROJECT NO.	202011039
FILENAME	202011039-S1
CHECKED BY	SN
DRAWN BY	GLJ
SCALE	1"=50'
DATE	05. 14. 2021

SHEET

HARDSCAPE PLAN - AREA 'C'

L2.03

K:\Projects\Town\Rolesville\202011039 Frazier Farm Park\04-Production\Engineering\Construction Drawings\202011039-HS1.dwg, 5/28/2021 7:51:43 AM, Jenkins, Garrett



SITE LEGEND

- SIGNAGE
- AREA LIGHT (SEE SHEET L200)
- PEDESTRIAN LIGHT (SEE SHEET L200)
- POWER POLE
- ACCESSIBLE PARKING STALL (ACC)
- VAN ACCESSIBLE PARKING STALL (VAN)
- PROPERTY LINE
- EASEMENT LINE
- LIMITS OF DISTRUBANCE (LD)
- CENTERLINE
- EXISTING CHAINLINK FENCE
- PROPOSED FENCE (X)
- TREE PROTECTION/SILT FENCE (SF/TP)
- TREE PROTECTION FENCE (TP)
- TREE PROTECTION PHASE 2 FENCE (TS)
- HANDRAIL
- EXPANSION JOINT
- SCORE JOINT

MATERIALS LEGEND

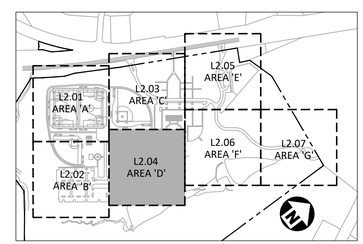
SYMBOL	FURNISHING
	CONCRETE
	HEAVY-DUTY CONCRETE
	ASPHALT
	HEAVY-DUTY ASPHALT
	PAVERS
	VEHICULAR-RATE PAVERS
	GRIT
	COMPOSITE DECKING
	ARTIFICIAL TURF
	SAFETY PLAY SURFACE

LIGHTING LEGEND

SYMBOL	FURNISHING
	14' PEDESTRIAN LIGHT
	30' AREA LIGHT (NOT USED)
	UPLIGHT
	STEP LIGHT
	BOLLARD LIGHT
	PATH LIGHT
	STRIP LIGHT

GENERAL NOTES:

1. SEE SHEET L2.00 FOR LIGHT FIXTURE QUANTITIES AND SELECTIONS



INDEX MAP
N.T.S.

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF ROLESVILLE ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

GRAPHIC SCALE
0 15 30 60
1 inch = 30 ft.

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

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11624 LOUISBURG ROAD
ROLESVILLE, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 050960 SHWETA NAMEKAR

REVISIONS

NO.	DATE

PLAN INFORMATION

PROJECT NO.	202011039
FILENAME	202011039-S1
CHECKED BY	SN
DRAWN BY	GLJ
SCALE	1"=50'
DATE	05. 14. 2021

SHEET

HARDSCAPE PLAN - AREA 'D'

L2.04

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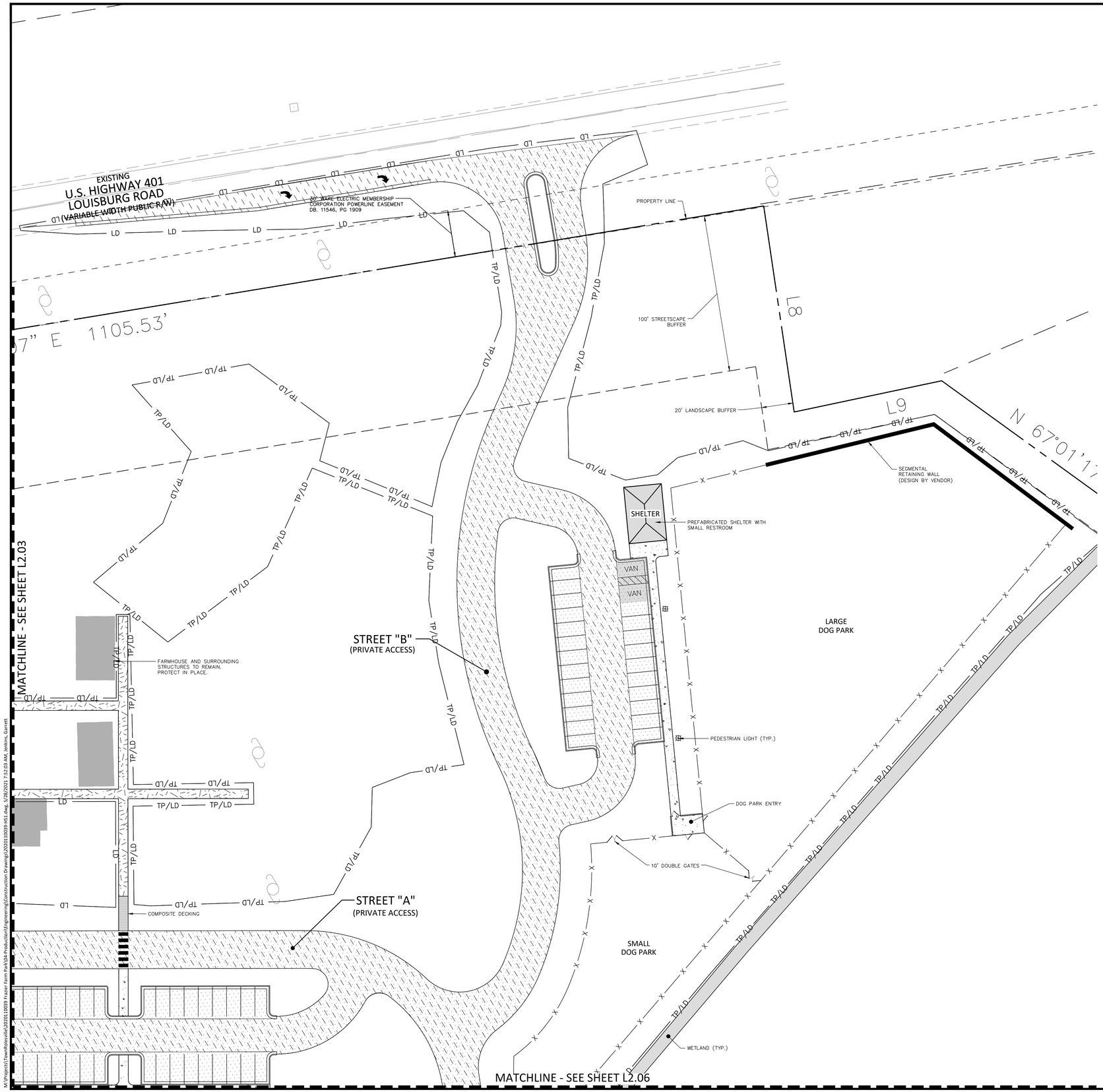


SITE LEGEND

- SIGNAGE
- AREA LIGHT (SEE SHEET L200)
- PEDESTRIAN LIGHT (SEE SHEET L200)
- POWER POLE
- ACC — ACCESSIBLE PARKING STALL
- VAN — VAN ACCESSIBLE PARKING STALL
- PROPERTY LINE
- EASEMENT LINE
- LD — LIMITS OF DISTRUBANCE
- CENTERLINE
- EXISTING CHAINLINK FENCE
- PROPOSED FENCE
- SF/TP — TREE PROTECTION/SILT FENCE
- TP — TREE PROTECTION FENCE
- TS — TREE PROTECTION PHASE 2 FENCE
- HANDRAIL
- EXPANSION JOINT
- SCORE JOINT

MATERIALS LEGEND

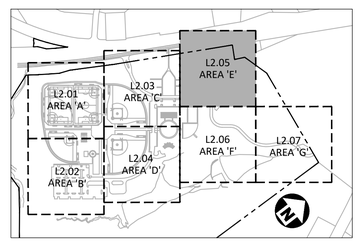
SYMBOL	FURNISHING
	CONCRETE
	HEAVY-DUTY CONCRETE
	ASPHALT
	HEAVY-DUTY ASPHALT
	PAVERS
	VEHICULAR-RATE PAVERS
	GRIT
	COMPOSITE DECKING
	ARTIFICIAL TURF
	SAFETY PLAY SURFACE

LIGHTING LEGEND

SYMBOL	FURNISHING
	14' PEDESTRIAN LIGHT
	30' AREA LIGHT (NOT USED)
	UPLIGHT
	STEP LIGHT
	BOLLARD LIGHT
	PATH LIGHT
	STRIP LIGHT

GENERAL NOTES:

1. SEE SHEET L2.00 FOR LIGHT FIXTURE QUANTITIES AND SELECTIONS



INDEX MAP
N.T.S.

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF ROLESVILLE ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

GRAPHIC SCALE
0 15 30 60
1 inch = 30 ft.

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

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FRAZIER FARM PARK
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11624 LOUISBURG ROAD
ROLESVILLE, NORTH CAROLINA

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT SEAL 1960 SHWETA NANEKAR
PRELIMINARY NOT FOR CONSTRUCTION

REVISIONS

NO.	DATE

PLAN INFORMATION

PROJECT NO.	202011039
FILENAME	202011039-S1
CHECKED BY	SN
DRAWN BY	GLJ
SCALE	1"=50'
DATE	05. 14. 2021

SHEET

HARDSCAPE PLAN - AREA 'E'

L2.05

M:\Projects\TownRolesville\202011039 Frazier Farm Park\04-Production\Engineering\Construction Drawings\202011039-HS1.dwg, 3/30/2021 7:23:03 AM, Jenkins, Garrett

MATCHLINE - SEE SHEET L2.05

MATCHLINE - SEE SHEET L2.03

MATCHLINE - SEE SHEET L2.04

MATCHLINE - SEE SHEET L2.07

LIGHT STRIP (TYP.)

UPLIGHT (TYP.)

SEAT WALL BOLLARD LIGHT (TYP.)

SCULPTURE BASE

STEPPING BOULDERS (TYP.)

EMBANKMENT CLIMBING

PEDESTRIAN LIGHT (TYP.)

EMBANKMENT CLIMBING

PLAYGROUND

SHELTER

COMPOSITE DECKING MATERIAL

STREET "A"
(PRIVATE ACCESS)

MAINTENANCE BUILDING

TP/LD

LD

WETLAND (TYP.)

30' ZONE 1 NEUSE RIVER BUFFER
20' ZONE 2 NEUSE RIVER BUFFER
100' WS VEGETATIVE SETBACK

APPROXIMATE EDGE OF POND

EXISTING POND

WETLAND (TYP.)

M:\Projects\TownRolesville\202011039 Frazier Farm Park\04-Production\Engineering\Construction Drawings\202011039-HS1.dwg, 3/29/2021 7:32:13 AM, Hankins, Garrett

SITE LEGEND

	SIGNAGE
	AREA LIGHT (SEE SHEET L200)
	PEDESTRIAN LIGHT (SEE SHEET L200)
	POWER POLE
ACC VAN	ACCESSIBLE PARKING STALL
	VAN ACCESSIBLE PARKING STALL
	PROPERTY LINE
	EASEMENT LINE
LD	LIMITS OF DISTRUBANCE
	CENTERLINE
X X X	EXISTING CHAINLINK FENCE
X X	PROPOSED FENCE
SF/TP	TREE PROTECTION/SILT FENCE
TP	TREE PROTECTION FENCE
TS	TREE PROTECTION PHASE 2 FENCE
	HANDRAIL
	EXPANSION JOINT
	SCORE JOINT

MATERIALS LEGEND

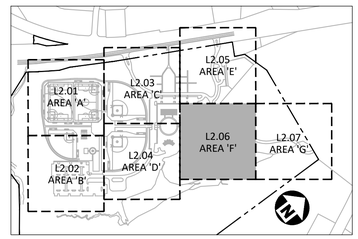
SYMBOL	FURNISHING
	CONCRETE
	HEAVY-DUTY CONCRETE
	ASPHALT
	HEAVY-DUTY ASPHALT
	PAVERS
	VEHICULAR-RATE PAVERS
	GRIT
	COMPOSITE DECKING
	ARTIFICIAL TURF
	SAFETY PLAY SURFACE

LIGHTING LEGEND

SYMBOL	FURNISHING
	14' PEDESTRIAN LIGHT
	30' AREA LIGHT (NOT USED)
	UPLIGHT
	STEP LIGHT
	BOLLARD LIGHT
	PATH LIGHT
	STRIP LIGHT

GENERAL NOTES:

1. SEE SHEET L2.00 FOR LIGHT FIXTURE QUANTITIES AND SELECTIONS



INDEX MAP
N.T.S.

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF ROLESVILLE ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

GRAPHIC SCALE
0 15 30 60
1 inch = 30 ft.

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

McADAMS
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CLIENT

NAME	TOWN OF ROLESVILLE
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ADDRESS	ROLESVILLE NC 27571
PHONE:	919.554.6582

FRAZIER FARM PARK
30% CONSTRUCTION DRAWINGS
11624 LOUISBURG ROAD
ROLESVILLE, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 049660 SIDDHESH NAMEKAR

REVISIONS

NO.	DATE

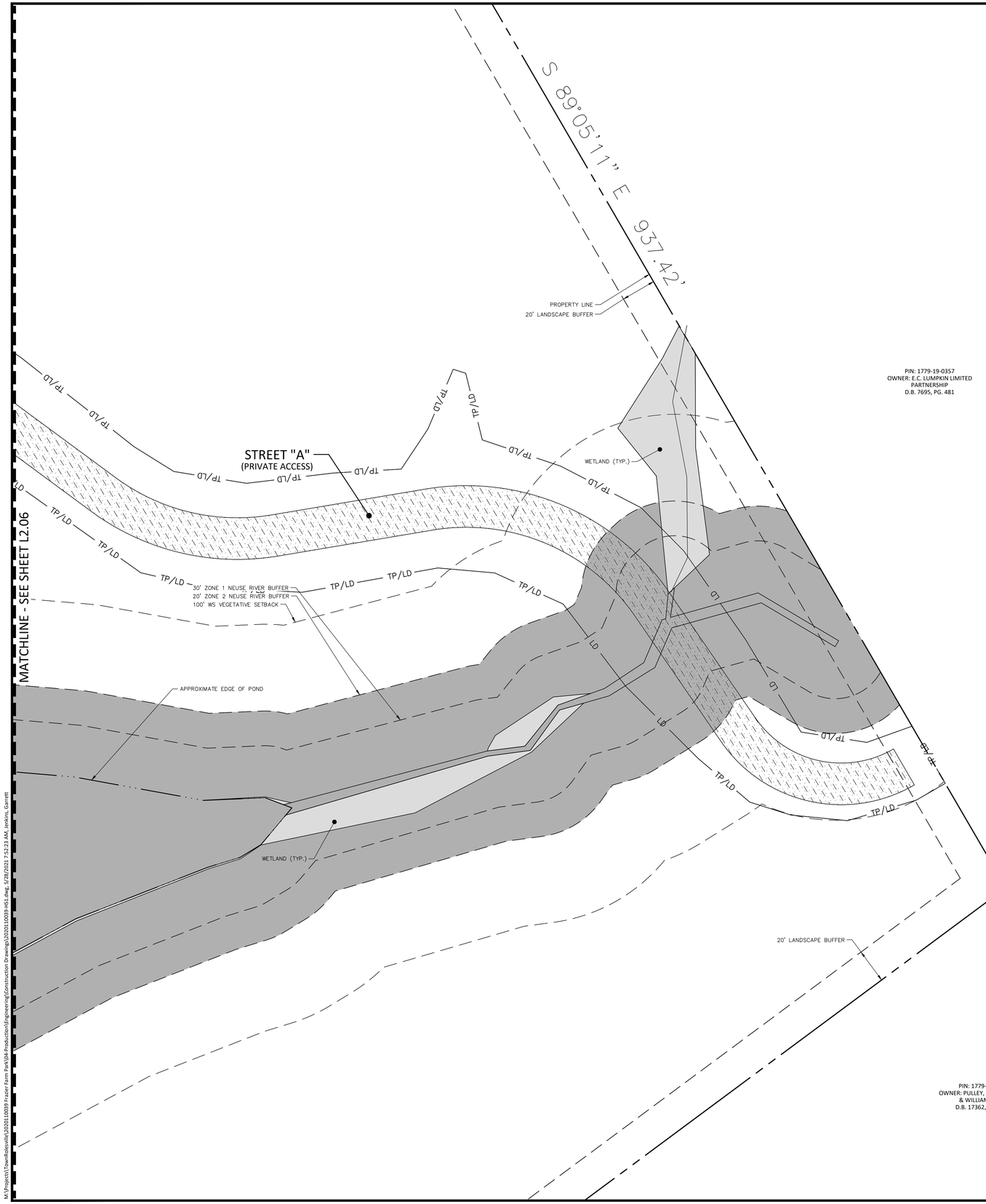
PLAN INFORMATION

PROJECT NO.	202011039
FILENAME	202011039-S1
CHECKED BY	SN
DRAWN BY	GLJ
SCALE	1"=50'
DATE	05. 14. 2021

SHEET

HARDSCAPE PLAN - AREA 'F'

L2.06



SITE LEGEND

	SIGNAGE
	AREA LIGHT (SEE SHEET L200)
	PEDESTRIAN LIGHT (SEE SHEET L200)
	POWER POLE
ACC VAN	ACCESSIBLE PARKING STALL
	VAN ACCESSIBLE PARKING STALL
	PROPERTY LINE
	EASEMENT LINE
LD	LIMITS OF DISTRUBANCE
	CENTERLINE
X X X	EXISTING CHAINLINK FENCE
X X	PROPOSED FENCE
SF/TP	TREE PROTECTION/SILT FENCE
TP	TREE PROTECTION FENCE
TS	TREE PROTECTION PHASE 2 FENCE
	HANDRAIL
	EXPANSION JOINT
	SCORE JOINT

MATERIALS LEGEND

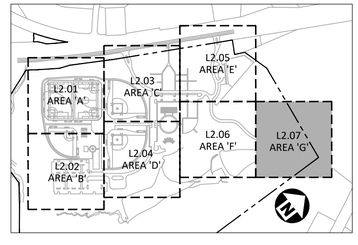
SYMBOL	FURNISHING
	CONCRETE
	HEAVY-DUTY CONCRETE
	ASPHALT
	HEAVY-DUTY ASPHALT
	PAVERS
	VEHICULAR-RATE PAVERS
	GRIT
	COMPOSITE DECKING
	ARTIFICIAL TURF
	SAFETY PLAY SURFACE

LIGHTING LEGEND

SYMBOL	FURNISHING
	14' PEDESTRIAN LIGHT
	30' AREA LIGHT (NOT USED)
	UPLIGHT
	STEP LIGHT
	BOLLARD LIGHT
	PATH LIGHT
	STRIP LIGHT

GENERAL NOTES:

1. SEE SHEET L2.00 FOR LIGHT FIXTURE QUANTITIES AND SELECTIONS



INDEX MAP
N.T.S.

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF ROLESVILLE ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

GRAPHIC SCALE
0 15 30 60
1 inch = 30 ft.

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

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FRAZIER FARM PARK
30% CONSTRUCTION DRAWINGS
11624 LOUISBURG ROAD
ROLESVILLE, NORTH CAROLINA

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT SEAL 1960 SHWETA NANEKAR

REVISIONS

NO.	DATE

PLAN INFORMATION

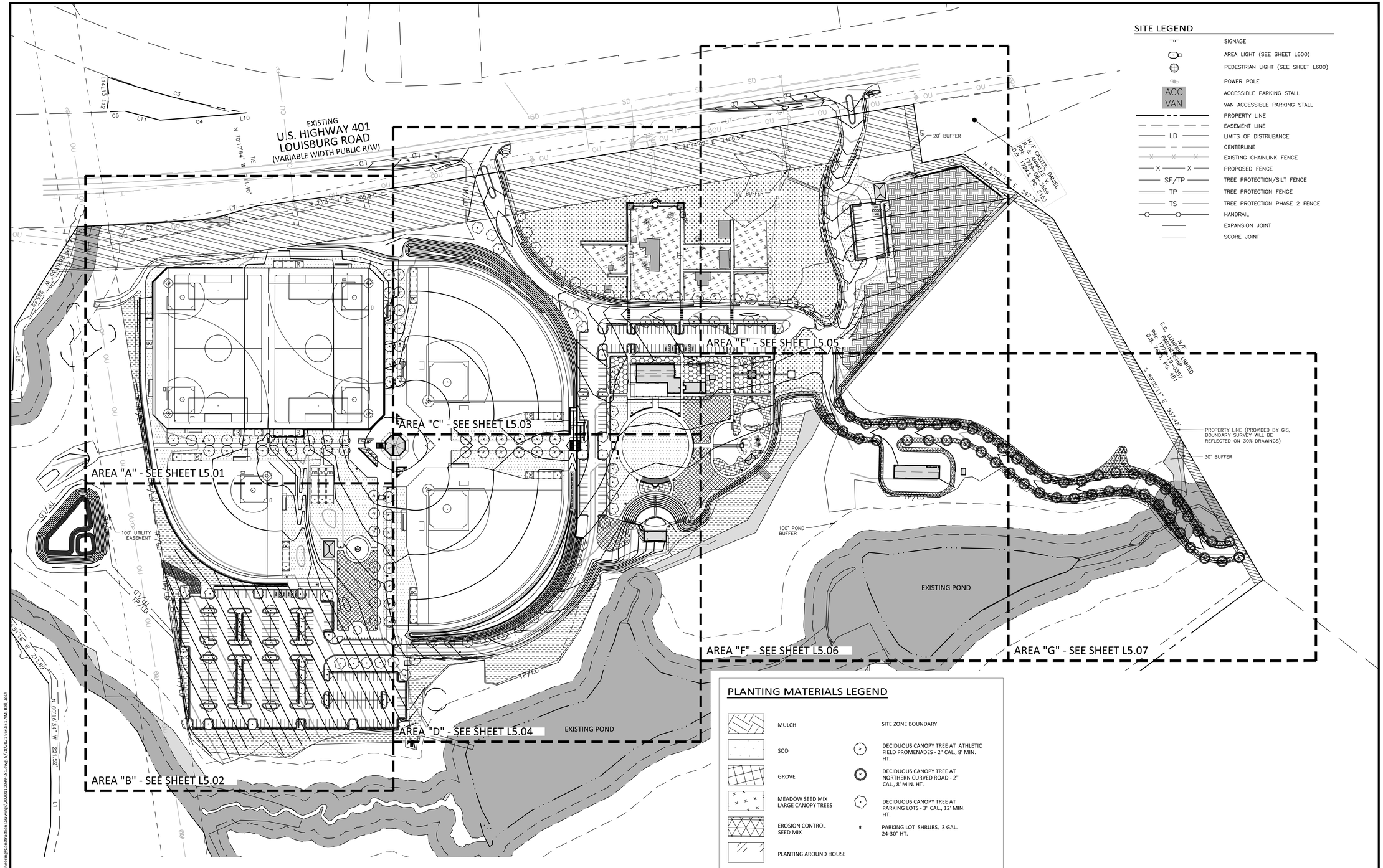
PROJECT NO.	202011039
FILENAME	202011039-S1
CHECKED BY	SN
DRAWN BY	GLJ
SCALE	1"=50'
DATE	05. 14. 2021

SHEET

HARDSCAPE PLAN - AREA 'G'

L2.07

M:\Projects\Townofrolesville\202011039 Frazier Farm Park\04-Production\Engineering\Construction Drawings\202011039-HS1.dwg, 9/28/2021 7:32:23 AM, Jenkins, Garrett



SITE LEGEND

- SIGNAGE
- AREA LIGHT (SEE SHEET L600)
- PEDESTRIAN LIGHT (SEE SHEET L600)
- POWER POLE
- ACCESSIBLE PARKING STALL (ACC)
- VAN ACCESSIBLE PARKING STALL (VAN)
- PROPERTY LINE
- EASEMENT LINE
- LIMITS OF DISTRUBANCE (LD)
- CENTERLINE
- EXISTING CHAINLINK FENCE
- PROPOSED FENCE (X — X)
- TREE PROTECTION/SILT FENCE (SF/TP)
- TREE PROTECTION FENCE (TP)
- TREE PROTECTION PHASE 2 FENCE (TS)
- HANDRAIL
- EXPANSION JOINT
- SCORE JOINT

PLANTING MATERIALS LEGEND

- MULCH
- SOD
- GROVE
- MEADOW SEED MIX LARGE CANOPY TREES
- EROSION CONTROL SEED MIX
- PLANTING AROUND HOUSE
- OUTDOOR VENUE SPACE PLANTING
- ORNAMENTAL PLANTING
- WOODLAND EDGE PLANTING
- 100' LANDSCAPE BUFFER
- 20' LANDSCAPE BUFFER
- SITE ZONE BOUNDARY
- DECIDUOUS CANOPY TREE AT ATHLETIC FIELD PROMENADES - 2" CAL., 8' MIN. HT.
- DECIDUOUS CANOPY TREE AT NORTHERN CURVED ROAD - 2" CAL., 8' MIN. HT.
- DECIDUOUS CANOPY TREE AT PARKING LOTS - 3" CAL., 12' MIN. HT.
- PARKING LOT SHRUBS, 3 GAL. 24-30" HT.

NOTE: SEE TABLE ON SHEET LD1.01 AND NARRATIVE FOR MORE INFORMATION ON PLANTING MATERIAL INCLUDED IN ZONES OUTLINED ABOVE

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF ROLESVILLE ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

GRAPHIC SCALE
0 50 100 200
1 inch = 100 ft.

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

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11624 LOUISBURG ROAD
ROLESVILLE, NORTH CAROLINA

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1960 SHWETA NANEKAR

REVISIONS

NO.	DATE

PLAN INFORMATION

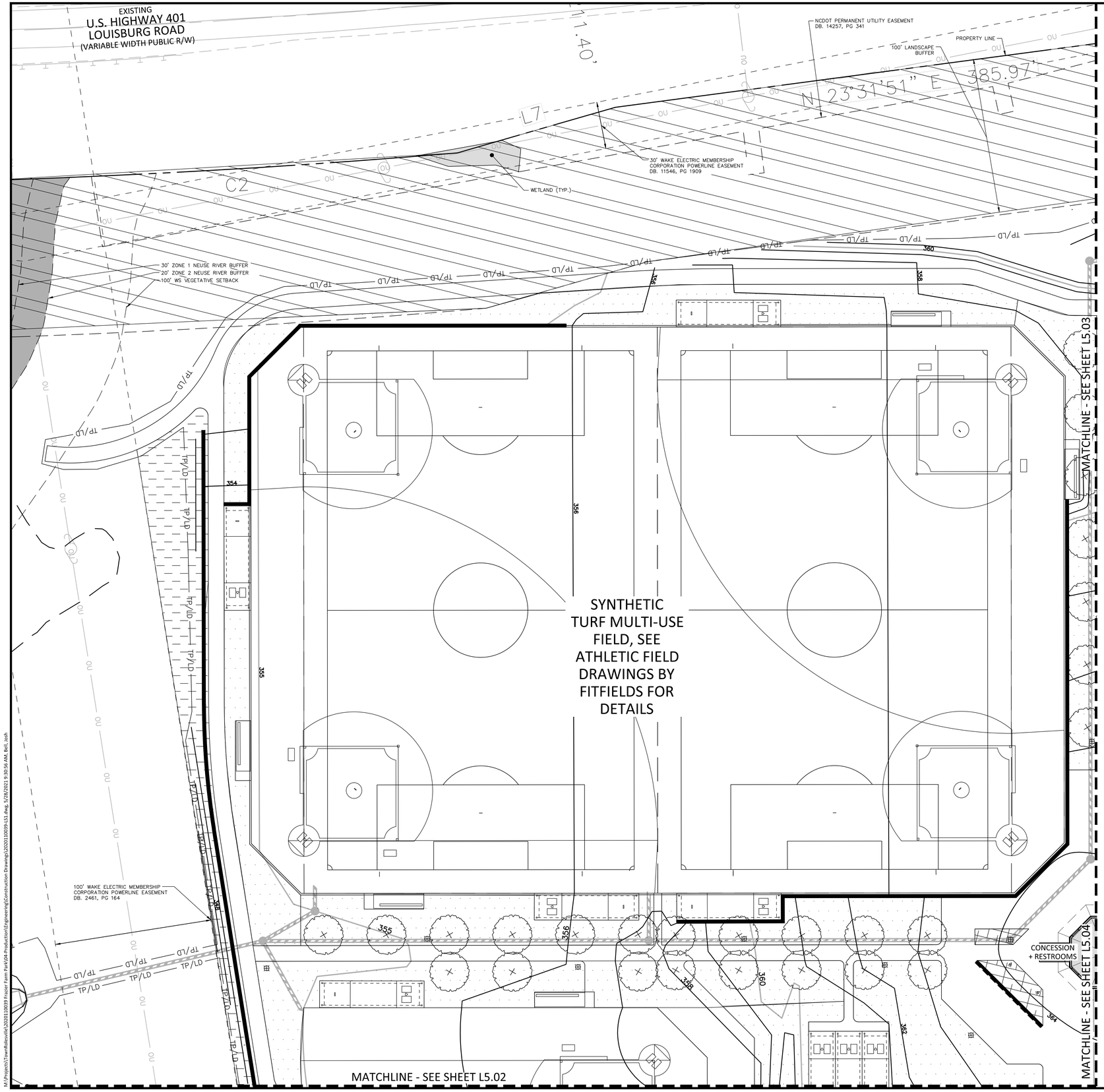
PROJECT NO.	202011039
FILENAME	202011039-LS1
CHECKED BY	SN
DRAWN BY	PTH
SCALE	1"=100'
DATE	05. 28. 2021

SHEET

OVERALL LANDSCAPE PLAN

L5.00

M:\Projects\Town\Rolesville\202011039 Frazier Farm Park\04-Production\Engineering\Construction Drawings\202011039-LS1.dwg, 5/28/2021 9:39:51 AM, Bell, Josh



SITE LEGEND

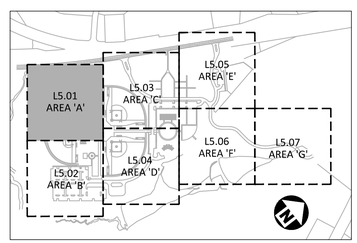
- SIGNAGE
- AREA LIGHT (SEE SHEET L600)
- PEDESTRIAN LIGHT (SEE SHEET L600)
- POWER POLE
- ACC VAN — ACCESSIBLE PARKING STALL
- VAN ACCESSIBLE PARKING STALL
- PROPERTY LINE
- EASEMENT LINE
- LD — LIMITS OF DISTRUBANCE
- CENTERLINE
- EXISTING CHAINLINK FENCE
- PROPOSED FENCE
- SF/TP — TREE PROTECTION/SILT FENCE
- TP — TREE PROTECTION FENCE
- TS — TREE PROTECTION PHASE 2 FENCE
- HANDRAIL
- EXPANSION JOINT
- SCORE JOINT

PLANTING MATERIALS LEGEND

- MULCH
- SOD
- GROVE
- MEADOW SEED MIX LARGE CANOPY TREES
- EROSION CONTROL SEED MIX
- PLANTING AROUND HOUSE
- OUTDOOR VENUE SPACE
- ORNAMENTAL PLANTING
- WOODLAND EDGE PLANTING
- 100' STREETSCAPE BUFFER ALONG HW401
- 20' BUFFER

SITE ZONE BOUNDARY

- DECIDUOUS CANOPY TREE AT ATHLETIC FIELD PROMENADES - 2" CAL., 8' MIN. HT.
- DECIDUOUS CANOPY TREE AT NORTHERN CURVED ROAD - 2" CAL., 8' MIN. HT.
- DECIDUOUS CANOPY TREE AT PARKING LOTS - 3" CAL., 12' MIN. HT.
- PARKING LOT SHRUBS, 3 gal., 24-30" ht.



INDEX MAP
N.T.S.

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF ROLESVILLE ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

GRAPHIC SCALE
0 15 30 60
1 inch = 30 ft.

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

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FRAZIER FARM PARK
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11624 LOUISBURG ROAD
ROLESVILLE, NORTH CAROLINA

NORTH CAROLINA LANDSCAPE ARCHITECT 1960 SHWETA NANEKAR
PRELIMINARY NOT FOR CONSTRUCTION

REVISIONS

NO.	DATE

PLAN INFORMATION

PROJECT NO.	202011039
FILENAME	202011039-LS1
CHECKED BY	SN
DRAWN BY	PTH
SCALE	1"=30'
DATE	05. 28. 2021

SHEET

LANDSCAPE PLAN
AREA "A"
L5.01

M:\Projects\TownRolesville\202011039 Frazier Farm Park\04-Production\Engineering\Construction Drawings\202011039-LS1.dwg, 5/28/2021 9:30:56 AM, Bell, Josh

MATCHLINE - SEE SHEET L5.01

SOFTBALL FIELD,SEE ATHLETIC FIELD DRAWINGS BY FITFIELDS FOR DETAILS

PLAYGROUND

MATCHLINE - SEE SHEET L5.04

STREET "C"
(PRIVATE ACCESS)

100' WAKE ELECTRIC MEMBERSHIP CORPORATION POWERLINE EASEMENT
DB. 2461, PG 164

WETLAND (TYP.)

30' ZONE 1 NEUSE RIVER BUFFER
20' ZONE 2 NEUSE RIVER BUFFER
100' WS VEGETATIVE SETBACK

VAN

TP/LD

SF/TP

OU

SITE LEGEND

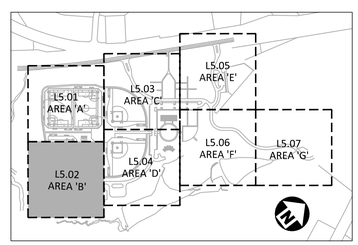
- SIGNAGE
- AREA LIGHT (SEE SHEET L600)
- PEDESTRIAN LIGHT (SEE SHEET L600)
- POWER POLE
- ACCESSIBLE PARKING STALL (ACC)
- VAN ACCESSIBLE PARKING STALL (VAN)
- PROPERTY LINE
- EASEMENT LINE
- LIMITS OF DISTRUBANCE (LD)
- CENTERLINE
- EXISTING CHAINLINK FENCE
- PROPOSED FENCE (X — X)
- TREE PROTECTION/SILT FENCE (SF/TP)
- TREE PROTECTION FENCE (TP)
- TREE PROTECTION PHASE 2 FENCE (TS)
- HANDRAIL
- EXPANSION JOINT
- SCORE JOINT

PLANTING MATERIALS LEGEND

- MULCH
- SOD
- GROVE
- MEADOW SEED MIX LARGE CANOPY TREES
- EROSION CONTROL SEED MIX
- PLANTING AROUND HOUSE
- OUTDOOR VENUE SPACE
- ORNAMENTAL PLANTING
- WOODLAND EDGE PLANTING
- 100' STREETSCAPE BUFFER ALONG HW401
- 20' BUFFER

SITE ZONE BOUNDARY

- DECIDUOUS CANOPY TREE AT ATHLETIC FIELD PROMENADES - 2" CAL., 8' MIN. HT.
- DECIDUOUS CANOPY TREE AT NORTHERN CURVED ROAD - 2" CAL., 8' MIN. HT.
- DECIDUOUS CANOPY TREE AT PARKING LOTS - 3" CAL., 12' MIN. HT.
- PARKING LOT SHRUBS, 3 gal., 24-30" ht.



INDEX MAP
N.T.S.

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF ROLESVILLE ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

GRAPHIC SCALE
0 15 30 60
1 inch = 30 ft.

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

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FRAZIER FARM PARK
30% CONSTRUCTION DRAWINGS
11624 LOUISBURG ROAD
ROLESVILLE, NORTH CAROLINA

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1960 SWWETA NANEKAR
PRELIMINARY NOT FOR CONSTRUCTION

REVISIONS

NO. DATE

PLAN INFORMATION

PROJECT NO.	202011039
FILENAME	202011039-LS1
CHECKED BY	SN
DRAWN BY	PTH
SCALE	1"=30'
DATE	05. 28. 2021

SHEET

LANDSCAPE PLAN
AREA "B"
L5.02

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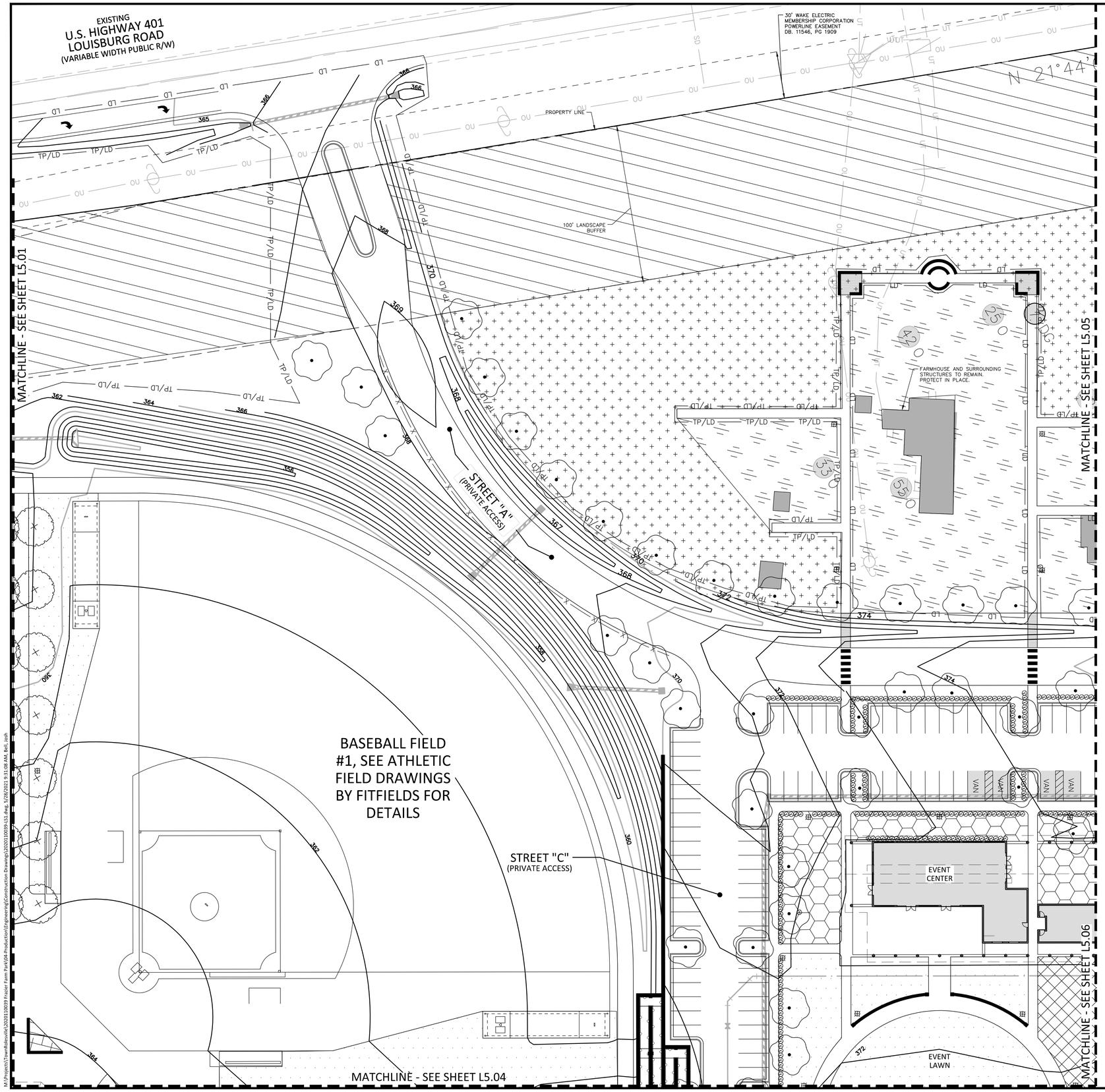
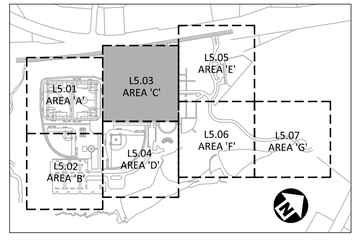


SITE LEGEND

- SIGNAGE
- AREA LIGHT (SEE SHEET L600)
- PEDESTRIAN LIGHT (SEE SHEET L600)
- POWER POLE
- ACCESSIBLE PARKING STALL (ACC)
- VAN ACCESSIBLE PARKING STALL (VAN)
- PROPERTY LINE
- EASEMENT LINE
- LIMITS OF DISTRUBANCE (LD)
- CENTERLINE
- EXISTING CHAINLINK FENCE
- PROPOSED FENCE
- TREE PROTECTION/SILT FENCE (SF/TP)
- TREE PROTECTION FENCE (TP)
- TREE PROTECTION PHASE 2 FENCE (TS)
- HANDRAIL
- EXPANSION JOINT
- SCORE JOINT

PLANTING MATERIALS LEGEND

- MULCH
- SOD
- GROVE
- MEADOW SEED MIX LARGE CANOPY TREES
- EROSION CONTROL SEED MIX
- PLANTING AROUND HOUSE
- OUTDOOR VENUE SPACE
- ORNAMENTAL PLANTING
- WOODLAND EDGE PLANTING
- 100' STREETSCAPE BUFFER ALONG HW401
- 20' BUFFER
- SITE ZONE BOUNDARY
- DECIDUOUS CANOPY TREE AT ATHLETIC FIELD PROMENADES - 2" CAL., 8' MIN. HT.
- DECIDUOUS CANOPY TREE AT NORTHERN CURVED ROAD - 2" CAL., 8' MIN. HT.
- DECIDUOUS CANOPY TREE AT PARKING LOTS - 3" CAL., 12' MIN. HT.
- PARKING LOT SHRUBS, 3 gal., 24-30" ht.



INDEX MAP
N.T.S.

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF ROLESVILLE ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

GRAPHIC SCALE
0 15 30 60
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FRAZIER FARM PARK
30% CONSTRUCTION DRAWINGS
11624 LOUISBURG ROAD
ROLESVILLE, NORTH CAROLINA

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1960 PRELIMINARY NOT FOR CONSTRUCTION PURPOSES SHWETA NAMEKAR

REVISIONS

NO. DATE

PLAN INFORMATION

PROJECT NO.	202011039
FILENAME	202011039-LS1
CHECKED BY	SN
DRAWN BY	PTH
SCALE	1"=30'
DATE	05. 28. 2021

SHEET

LANDSCAPE PLAN
AREA "C"

L5.03

M:\Projects\TownRolesville\202011039 Frazier Farm Park\04-Production\Engineering\Construction Drawings\202011039-LS1.dwg, 5/28/2021 9:31:08 AM, Bell, Josh

MATCHLINE - SEE SHEET L5.03

CONCESSION + RESTROOMS

EVENT LAWN

MATCHLINE - SEE SHEET L5.01

MATCHLINE - SEE SHEET L5.02

BASEBALL FIELD #2, SEE ATHLETIC FIELD DRAWINGS BY FITFIELDS FOR DETAILS

AMPHITHEATER STAGE

MATCHLINE - SEE SHEET L5.06

STREET "C" (PRIVATE ACCESS)

WETLAND (TYP.)

APPROXIMATE EDGE OF POND

30' ZONE 1 NEUSE RIVER BUFFER
20' ZONE 2 NEUSE RIVER BUFFER
100' WS VEGETATIVE SETBACK

EXISTING POND

TP/LD

SITE LEGEND

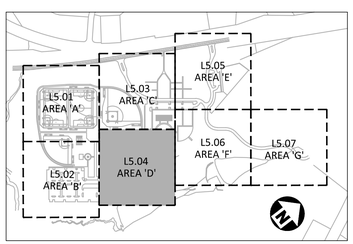
- SIGNAGE
- AREA LIGHT (SEE SHEET L600)
- PEDESTRIAN LIGHT (SEE SHEET L600)
- POWER POLE
- ACC VAN — ACCESSIBLE PARKING STALL / VAN ACCESSIBLE PARKING STALL
- PROPERTY LINE
- EASEMENT LINE
- LD — LIMITS OF DISTRUBANCE
- CENTERLINE
- EXISTING CHAINLINK FENCE
- X — X — PROPOSED FENCE
- SF/TP — TREE PROTECTION/SILT FENCE
- TP — TREE PROTECTION FENCE
- TS — TREE PROTECTION PHASE 2 FENCE
- HANDRAIL
- EXPANSION JOINT
- SCORE JOINT

PLANTING MATERIALS LEGEND

- MULCH
- SOD
- GROVE
- MEADOW SEED MIX LARGE CANOPY TREES
- EROSION CONTROL SEED MIX
- PLANTING AROUND HOUSE
- OUTDOOR VENUE SPACE
- ORNAMENTAL PLANTING
- WOODLAND EDGE PLANTING
- 100' STREETSCAPE BUFFER ALONG HW401
- 20' BUFFER

SITE ZONE BOUNDARY

- DECIDUOUS CANOPY TREE AT ATHLETIC FIELD PROMENADES - 2" CAL., 8' MIN. HT.
- DECIDUOUS CANOPY TREE AT NORTHERN CURVED ROAD - 2" CAL., 8' MIN. HT.
- DECIDUOUS CANOPY TREE AT PARKING LOTS - 3" CAL., 12' MIN. HT.
- PARKING LOT SHRUBS, 3 gal., 24-30" ht.



INDEX MAP
N.T.S.

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FRAZIER FARM PARK
30% CONSTRUCTION DRAWINGS
11624 LOUISBURG ROAD
ROLESVILLE, NORTH CAROLINA

NORTH CAROLINA LANDSCAPE ARCHITECTURE 1960 SHWETA NANEKAR — NOT FOR CONSTRUCTION

REVISIONS

NO. DATE

PLAN INFORMATION

PROJECT NO.	202011039
FILENAME	202011039-LS1
CHECKED BY	SN
DRAWN BY	PTH
SCALE	1"=30'
DATE	05. 28. 2021

SHEET

LANDSCAPE PLAN AREA "D"

L5.04

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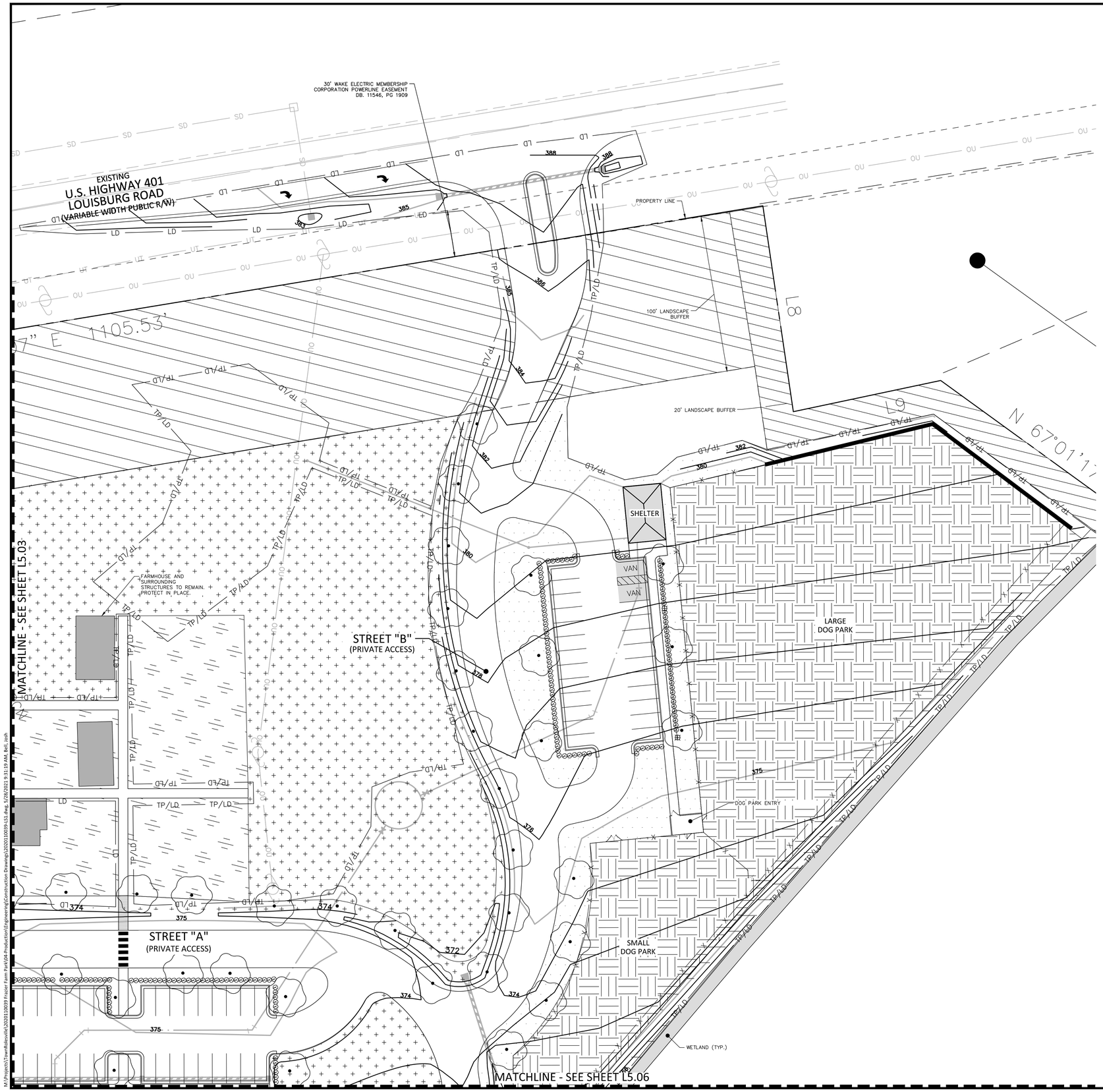

SITE LEGEND

- SIGNAGE
- AREA LIGHT (SEE SHEET L600)
- PEDESTRIAN LIGHT (SEE SHEET L600)
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- ACC / VAN — ACCESSIBLE PARKING STALL
- VAN ACCESSIBLE PARKING STALL
- PROPERTY LINE
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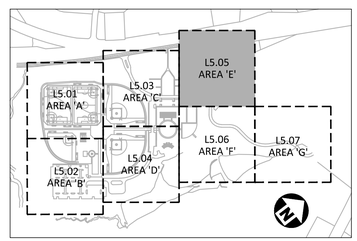
- LD — LIMITS OF DISTRUBANCE
- CENTERLINE
- EXISTING CHAINLINK FENCE
- PROPOSED FENCE
- SF/TP — TREE PROTECTION/SILT FENCE
- TP — TREE PROTECTION FENCE
- TS — TREE PROTECTION PHASE 2 FENCE
- HANDRAIL
- EXPANSION JOINT
- SCORE JOINT

PLANTING MATERIALS LEGEND

- MULCH
- SOD
- GROVE
- MEADOW SEED MIX LARGE CANOPY TREES
- EROSION CONTROL SEED MIX
- PLANTING AROUND HOUSE
- OUTDOOR VENUE SPACE
- ORNAMENTAL PLANTING
- WOODLAND EDGE PLANTING
- 100' STREETSCAPE BUFFER ALONG HW401
- 20' BUFFER

SITE ZONE BOUNDARY

- DECIDUOUS CANOPY TREE AT ATHLETIC FIELD PROMENADES - 2" CAL., 8' MIN. HT.
- DECIDUOUS CANOPY TREE AT NORTHERN CURVED ROAD - 2" CAL., 8' MIN. HT.
- DECIDUOUS CANOPY TREE AT PARKING LOTS - 3" CAL., 12' MIN. HT.
- PARKING LOT SHRUBS, 3 gal., 24-30" ht.



INDEX MAP
N.T.S.

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF ROLESVILLE ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

GRAPHIC SCALE
0 15 30 60
1 inch = 30 ft.

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

McADAMS
The John R. McAdams Company, Inc.
2905 Meridian Parkway
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phone 919. 361. 5000
fax 919. 361. 2269
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CLIENT

NAME	TOWN OF ROLESVILLE
ADDRESS	502 SOUTHTOWN CIRCLE
ADDRESS	ROLESVILLE NC 27571
PHONE:	919.554.6582

FRAZIER FARM PARK
30% CONSTRUCTION DRAWINGS
11624 LOUISBURG ROAD
ROLESVILLE, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 19601 SHIVNETA NAMEKAR — FOR PERMITTING AND NOT FOR CONSTRUCTION

REVISIONS

NO.	DATE

PLAN INFORMATION

PROJECT NO.	202011039
FILENAME	202011039-LS1
CHECKED BY	SN
DRAWN BY	PTH
SCALE	1"=30'
DATE	05. 28. 2021

SHEET

LANDSCAPE PLAN
AREA "E"

L5.05

M:\Projects\Town\Rolesville\202011039 Frazier Farm Park\04-Production\Engineering\Construction Drawings\202011039-LS1.dwg, 5/28/2021 9:31:19 AM, Bell, Josh

MATCHLINE - SEE SHEET L5.05

MATCHLINE - SEE SHEET L5.03

MATCHLINE - SEE SHEET L5.04

MATCHLINE - SEE SHEET L5.07

STREET "A"
(PRIVATE ACCESS)

PLAYGROUND

SHELTER

MAINTENANCE BUILDING

WETLAND (TYP.)

30' ZONE 1 NEUSE RIVER BUFFER
20' ZONE 2 NEUSE RIVER BUFFER
100' WS VEGETATIVE SETBACK

APPROXIMATE EDGE OF POND

EXISTING POND

WETLAND (TYP.)

TP/LD

SITE LEGEND

- SIGNAGE
- AREA LIGHT (SEE SHEET L600)
- PEDESTRIAN LIGHT (SEE SHEET L600)
- POWER POLE
- ACC / VAN — ACCESSIBLE PARKING STALL
- VAN ACCESSIBLE PARKING STALL
- PROPERTY LINE
- EASEMENT LINE
- LD — LIMITS OF DISTRUBANCE
- CENTERLINE
- EXISTING CHAINLINK FENCE
- X — X — PROPOSED FENCE
- SF/TP — TREE PROTECTION/SILT FENCE
- TP — TREE PROTECTION FENCE
- TS — TREE PROTECTION PHASE 2 FENCE
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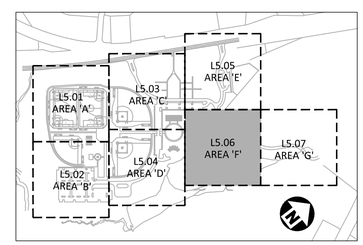

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DRAWN BY	PTH
SCALE	1"=30'
DATE	05. 28. 2021

SHEET

LANDSCAPE PLAN
AREA "F"

L5.06

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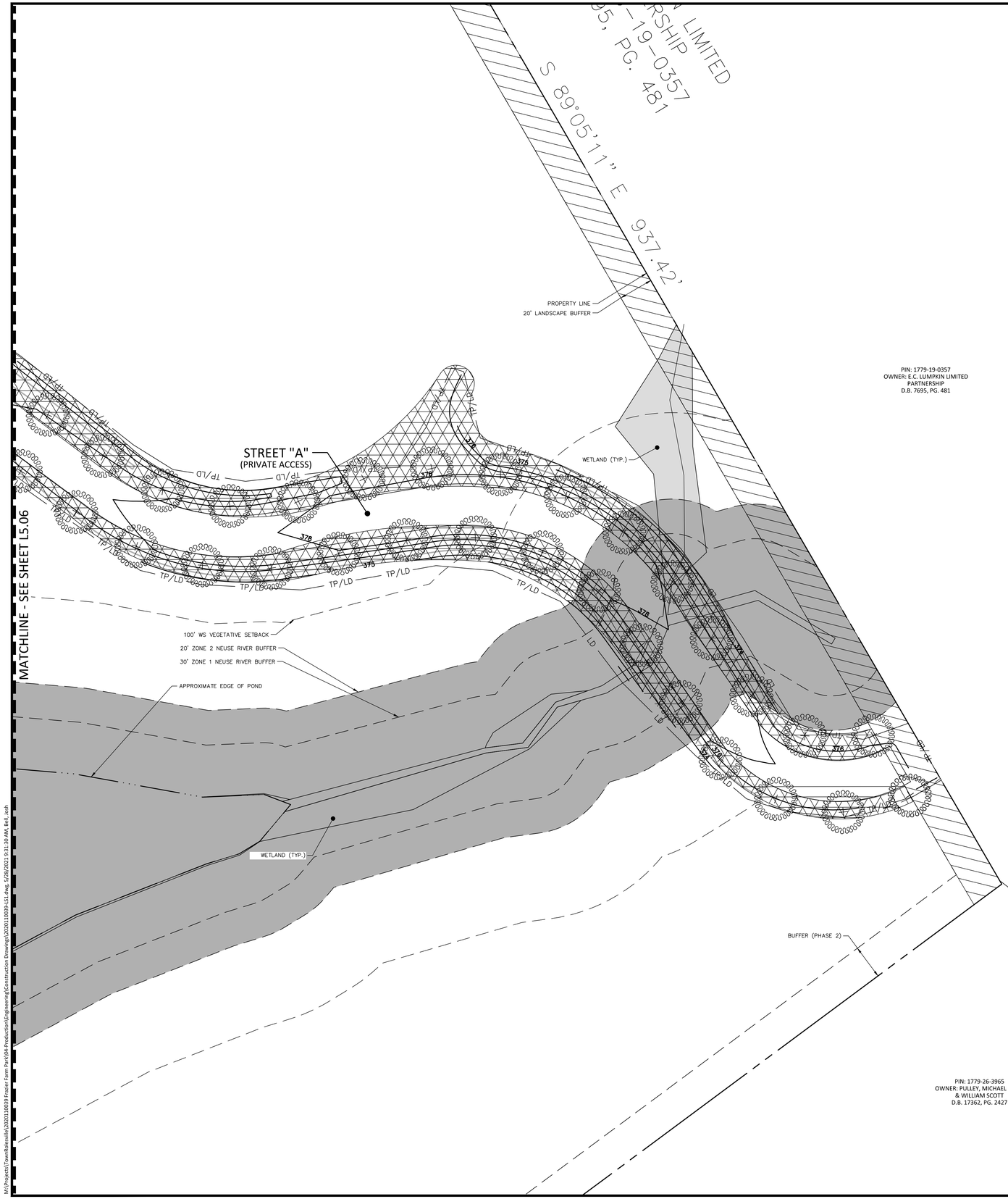

SITE LEGEND

- SIGNAGE
- AREA LIGHT (SEE SHEET L600)
- PEDESTRIAN LIGHT (SEE SHEET L600)
- POWER POLE
- ACC VAN — ACCESSIBLE PARKING STALL / VAN ACCESSIBLE PARKING STALL
- PROPERTY LINE
- EASEMENT LINE
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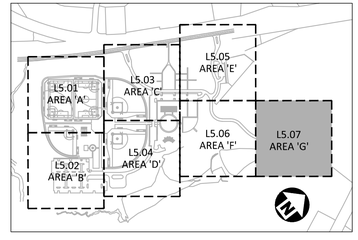

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LANDSCAPE PLAN
AREA "G"

L5.07

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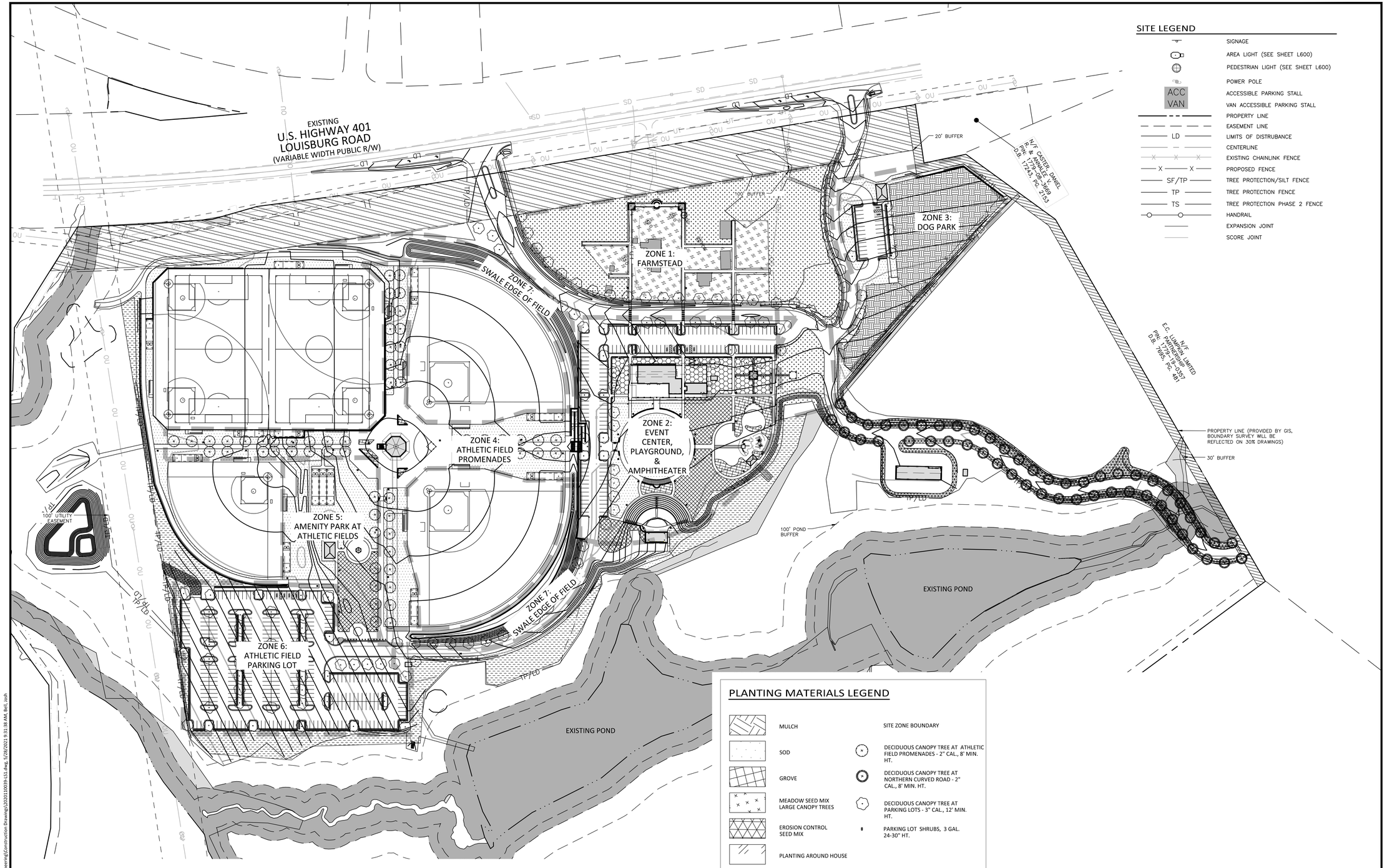

SITE LEGEND

- SIGNAGE
- AREA LIGHT (SEE SHEET L600)
- PEDESTRIAN LIGHT (SEE SHEET L600)
- POWER POLE
- ACCESSIBLE PARKING STALL (ACC)
- VAN ACCESSIBLE PARKING STALL (VAN)
- PROPERTY LINE
- EASEMENT LINE
- LIMITS OF DISTRUBANCE (LD)
- CENTERLINE
- EXISTING CHAINLINK FENCE
- PROPOSED FENCE
- TREE PROTECTION/SILT FENCE (SF/TP)
- TREE PROTECTION FENCE (TP)
- TREE PROTECTION PHASE 2 FENCE (TS)
- HANDRAIL
- EXPANSION JOINT
- SCORE JOINT

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- GROVE
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NOTE: SEE TABLE ON SHEET LD1.01 AND NARRATIVE FOR MORE INFORMATION ON PLANTING MATERIAL INCLUDED IN ZONES OUTLINED ABOVE

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF ROLESVILLE ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

GRAPHIC SCALE
0 50 100 200
1 inch = 100 ft.

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ROLESVILLE, NORTH CAROLINA

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1960 SHWETA NAMEKAR

REVISIONS

NO. DATE

PLAN INFORMATION

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CHECKED BY	SN
DRAWN BY	PTH
SCALE	1"=100'
DATE	05. 28. 2021

SHEET

OVERAL SITE ZONE DIAGRAM

L5.08

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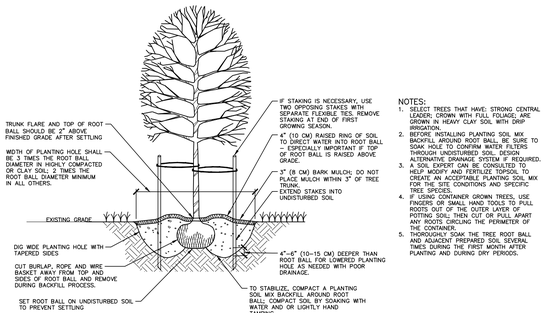
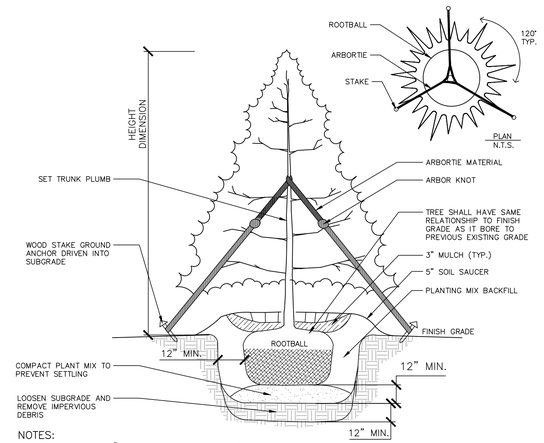


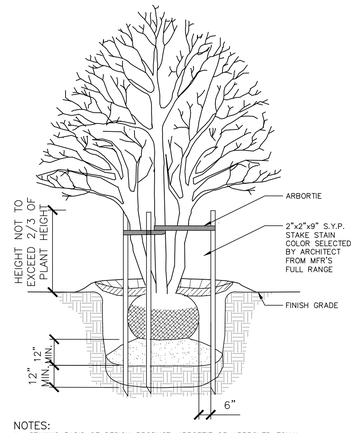
NOTES:
1. SELECT TREES THAT HAVE: STRONG CENTRAL LEADER; CROWN WITH FULL FOLIAGE; ARE GROWN IN HEAVY CLAY SOIL WITH DRIP IRRIGATION.
2. BEFORE INSTALLING PLANTING SOIL MIX BACKFILL AROUND ROOT BALL, BE SURE TO SOAK HOLE TO CONFIRM WATER DRAINS ADEQUATELY. INSTALL DRAINAGE SYSTEM OR ALTERNATIVE DRAINAGE SYSTEM IF REQUIRED.
3. A SOIL EXPERT CAN BE CONSULTED TO HELP MODIFY AND FERTILIZE TOPSOIL TO CREATE AN ACCEPTABLE PLANTING SOIL MIX FOR THE SITE CONDITIONS AND SPECIFIC TREE SPECIES.
4. IF USING CONTAINER GROWN TREES, USE FINGERS OR SMALL HAND TOOLS TO PULL ROOTS OFF THE SIDES OUTER LAYER OF POTTING SOIL. THEN, CUT OR PULL APART ANY ROOTS CIRCLING THE PERIMETER OF THE CONTAINER.
5. THOROUGHLY SOAK THE TREE ROOT BALL AND ADJACENT PREPARED SOIL SEVERAL TIMES DURING THE FIRST MONTH AFTER PLANTING AND DURING DRY PERIODS.

01 TREE INSTALLATION
SCALE: 3/8"=1'-0"



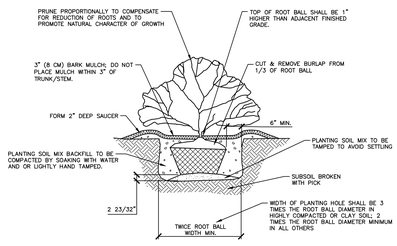
NOTES:
1. EVERGREEN TREES 2" CAL. OR SMALLER TO BE STAKED.
2. STAKING BASIS OF DESIGN PRODUCT: ARBORTIE OR APPROVED EQUAL.
3. STAKING TO BE REMOVED AFTER 2 GROWING SEASONS PER MANUFACTURER'S SPECIFICATIONS.
4. PROVIDE WATER CRYSTALS PER MANUFACTURER'S RECOMMENDATIONS FOR PINE TREES.

02 EVERGREEN TREE INSTALLATION
SCALE: 3/8"=1'-0"

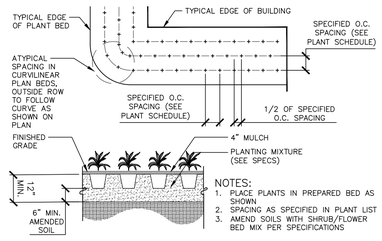


NOTES:
1. STAKING BASIS OF DESIGN PRODUCT: ARBORTIE OR APPROVED EQUAL.
2. STAKING FOR TREES 2" CAL. EA. TRUNK OR SMALLER.
3. REMOVE TREE STAKING AFTER 2 GROWING SEASONS PER MANUFACTURER'S SPECIFICATIONS.

03 MULTI-TRUNK TREE INSTALLATION
SCALE: 3/8"=1'-0"

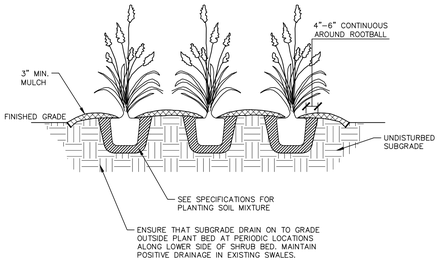


04 SHRUB INSTALLATION
SCALE: 3/8"=1'-0"

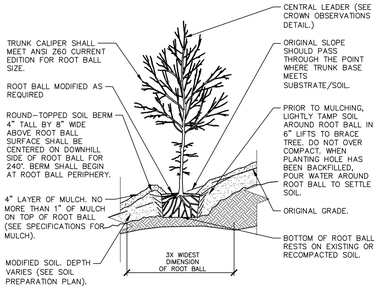


NOTES:
1. PLACE PLANTS IN PREPARED BED AS SHOWN
2. SPACING AS SPECIFIED IN PLANT LIST
3. AMEND SOILS WITH SHRUB/FLOWER BED MIX PER SPECIFICATIONS

05 GROUNDCOVER PLANTING
SCALE: 3/8"=1'-0"

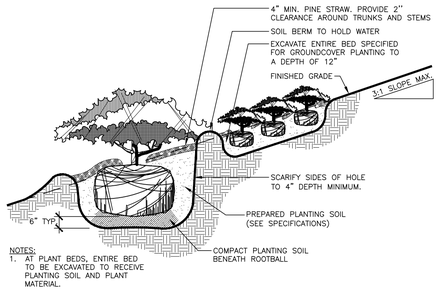


06 ORNAMENTAL GRASS PLANTING
SCALE: 1/2"=1'-0"



NOTES:
1. TREES SHALL BE OF QUALITY PRESCRIBED IN CROWN OBSERVATIONS AND ROOT OBSERVATIONS DETAILS AND SPECIFICATIONS.
2. SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS RELATED TO THIS DETAIL.

07 TREE ON SLOPE 5% (20:1) TO 50% (2:1) - MODIFIED SOIL
SCALE: N.T.S.



NOTES:
1. AT PLANT BEDS, ENTIRE BED TO BE EXCAVATED TO RECEIVE PLANTING SOIL AND PLANT MATERIAL.

08 SHRUB PLANTING ON SLOPE
SCALE: 3/4"=1'-0"

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09 DETAIL FORTHCOMING
SCALE: 1/2"=1'-0"

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SCALE	VARIES
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SHEET

PLANTING DETAILS

LD1.00

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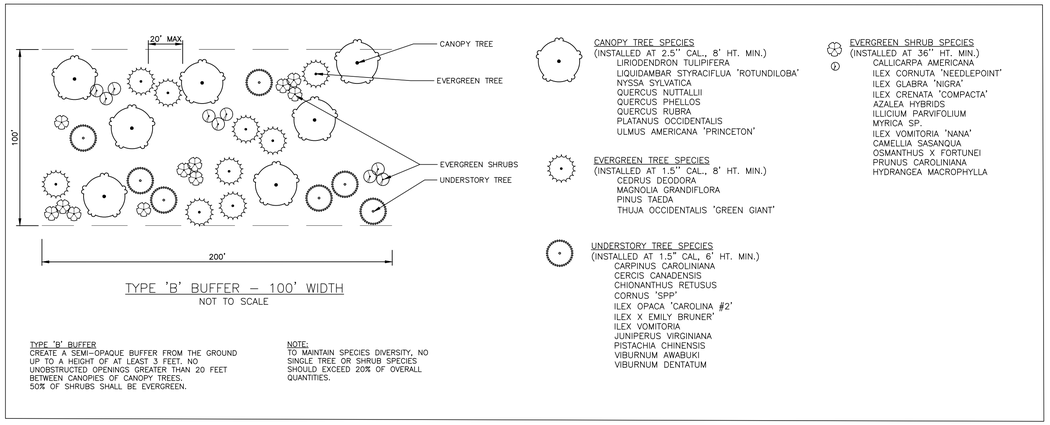
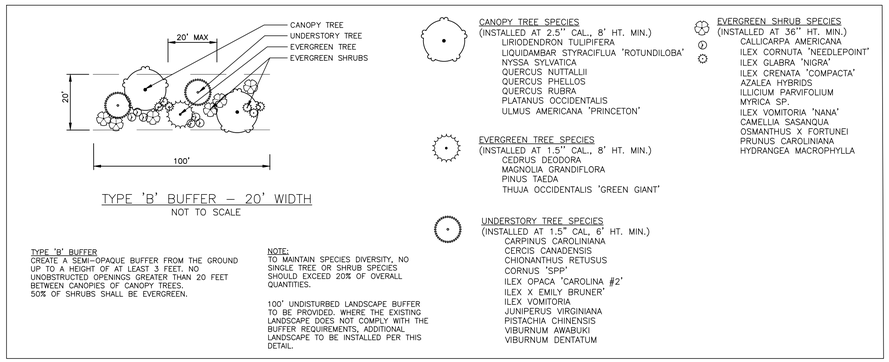


TYPE 'B' BUFFER – 100' WIDTH
NOT TO SCALE

01 100' BUFFER ALONG THOROUGHFARE
SCALE: NTS



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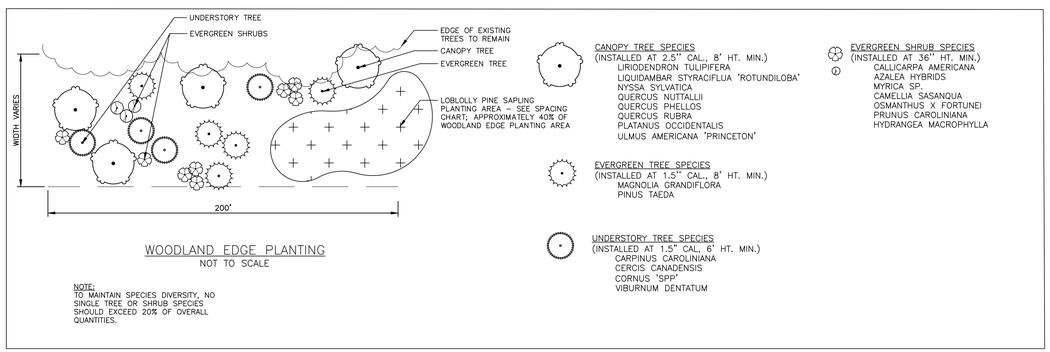
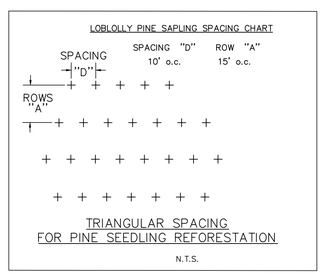
NOT TO SCALE

02 20' BUFFER - TYPICAL DETAIL
SCALE: NTS



WOODLAND EDGE PLANTING
NOT TO SCALE



TRIANGULAR SPACING
FOR PINE SEEDLING REFORESTATION
N.T.S.

03 WOODLAND EDGE PLANTING - TYPICAL DETAIL
SCALE: NTS

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PLANTING DETAILS

LD1.01

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LANDSCAPE MATERIAL AREAS AND ASSUMPTIONS

	ZONE #	ZONE NAME	PLANTING TYPE AREA (SF)		DESCRIPTION	Assumed Area %	AREA		ASSUMED SPACING	QUANTITY	SAY	UNITS
	1	**Historic House Zone**										
			51905	*Immediate area around house and among paths*								
				Ornamental trees in mulch	1" cal. or multistem 8' ht min. ornamental trees - i.e. amelanchier, dogwood, eastern redbud	0.5% of total area around house			15' O.C.		14	EA
				small "garden-like" plots of ornamental grasses along paths	1-3 gal. grasses, perennials and shrubs	33% of total area around house			36" O.C.			
				sodded lawn		65.5% of total area around house			n/a			
			125349	*Area between house 'zone' and roads*								
				Large Canopy trees	2" cal. Deciduous canopy trees	100% of zone			100' O.C.			
				Meadow mix	reference meadow mix from Garrett's Seed Mix Options	100% of zone			n/a			
				Trees Shown on Plan along Entrance Street (Enhanced)	3" cal. deciduous canopy trees				40' O.C.		30	EA
	ZONE #	ZONE NAME	PLANTING TYPE AREA (SF)		DESCRIPTION	Assumed Area %	AREA		ASSUMED SPACING	QUANTITY	SAY	UNITS
	2	**Event Center, Playground and Amphitheater Zone**										
			30243	*Event Lawn and surrounding areas*								
				Deciduous Canopy trees	2" cal. deciduous canopy trees around perimeter of circular lawn							
				(Enhanced) shrub planting	3-5 gal. deciduous and evergreen shrubs	15% of total area						
				(Enhanced) Accent Planting	1 gal. perennials	15% of total area			18" O.C.			
				(Enhanced) Sodded Lawn		70% of total area			n/a			
			20102	*Outdoor Venue (Assume 30-70 Hardscape to Landscape Ratio in this area)*								
				Ornamental Trees								
				Large Shrubs		10% of outdoor venue area			60" O.C.			
				Small Shrubs		20% of outdoor venue area			24" O.C.			
				Grasses/Groundcover		70% of outdoor venue area						
			6855	*Ornamental Planting at Playground Area*								
				Evergreen Shrubs		20% of area			48" O.C.			
				Deciduous shrubs		20% of area			24" O.C.			
				Grasses and Groundcovers		60% of area			24" O.C.			
			24413	Grove								
				Ornamental Trees		60% of area						
				Seeded Lawn		20% of area			n/a			
				Mulch		10% of area			n/a			
			1328	Amphitheater planting (between trellis and seat walls)								
				Lawn between trellis and top of seat walls		50% of area						
				Ornamental Planting between trllis and top of seat wall		50% of area						
				CODE REQ'D - Landscape in this zone								
				Canopy Trees in event center parking lots							38	
				Screening Shrubs		see plan					see plan	
				Foundation Planting around Event Center		assume 6' of mix of evergreen shrubs, perennials, groundcover around perimeter of building						
	ZONE #	ZONE NAME	PLANTING TYPE AREA (SF)		DESCRIPTION	Assumed Area %	AREA		ASSUMED SPACING	QUANTITY	SAY	UNITS
	3	**Dog Park Zone**										
				Enhanced Landscape								
			57928	Mulched Area inside dog park fence								
				(Enhanced) Buffer Planting around Dog park - shrubs, grasses, groundcover								
			20235	Parking Islands								
				Shrubs in Parking Islands		30% of islands						
				Sodded Lawn in parking islands		80% of island						
				CODE REQ'D - Landscape in this zone								
				Canopy Trees in dog park parking lots							10	EA
				Screening Shrubs	3 gal. 24-36" evergreen shrubs	see plan					see plan	
	ZONE #	ZONE NAME	PLANTING TYPE AREA (SF)		DESCRIPTION	Assumed Area %	AREA		ASSUMED SPACING	QUANTITY	SAY	UNITS
	4	**Athletic Field Amenity Zone**										
			91407	Sodded Lawn at Linear 'Promenades'			101693					
			1415	Accent Planting at Central Plaza around structure	mix of evergreen shrubs - 3 gal. 24-30" ht and ornamental grasses		XX					
				TREES ON PLAN [ENHANCED]							63	EA
	ZONE #	ZONE NAME	PLANTING TYPE AREA (SF)		DESCRIPTION	Assumed Area %	AREA		ASSUMED SPACING	QUANTITY	SAY	UNITS
	5	**Amenity Park at Athletic Fields**										
			38988	sodded lawn			37732					
			14171	"grove"/ decorative planting								
				trees	assume 100' spacing in sodded lawn areas							
				shrubs	assume 20% of total area with 36" O.C. spacing							
				grasses	assume 10% of total area with 24" O.C. spacing							
	6	**Swale at edge of field**										
			see plans	(assume 50% bank, 50% grass in swale)								
			see plans	(assume 50% bank, 50% grass in swale)								
	7	**Woodland Edge Planting**	109778	see typical detail for proposed planting								
		100' Streetscape buffer along 401	length = 1805	see typical detail for proposed planting	assume 45 trees for 100' buffer section						45	
		20' buffer north of site	length=1409	see typical detail for proposed planting	assume 35 trees for 20' buffer if 40' o.c.						35	
		Curved road erosion control seed mix	25871		erosion control seed mix							
		Curved Drive from Event Center to Athletic Field Parking Lot		TREES ON PLAN [ENHANCED]							15	
		Athetlic Field Parking Lot		TREES ON PLAN [CODE]							44	
		Curvy Access Road at North		TREES ON PLAN [CODE? OR ENHANCED?]							53	

LANDSCAPE NARRATIVE

For the purposes of the cost estimate based on the 30% schematic design drawings, the site can be considered as a number of different zones. Each zone has a distinct program associated with it, and a unique landscape approach, with some similar features re-occurring across the site to creative cohesiveness and a sense of place. The area around the event center and central spines between the athletic fields will have the most manicured appearance, and other areas will have a gradient of maintenance approaches. The overall design goal is to balance a farm aesthetic through visual and tactile references to the site's agricultural history, create spaces that accommodate large number of people, and be strategic about required level of maintenance and landscape management.

Zone 1: Farmstead

The existing historic house and accessory structures will remain in place. The design vision for this area of the site is to be pastoral landscape with a more 'naturalistic look' at the outer edges of this zone, with a more tailored/loosely manicured, residential-garden feel in the interior space closest to the house. This zone will consist of two types of landscape treatment:

a) Immediately surrounding the house there will be a combination of sodded lawn and intentionally located groupings of ornamental plantings. The overall approach will be to establish small, themed garden areas that visitors can pass through along the paths and circle around the historic house. These small garden areas will include a mix of perennials, ornamental grasses and groundcovers, potentially w/ an overlay of seasonal bulbs per Town of Rolesville's preferences.
b) Beyond the edge of the proposed pathways, the landscape will have a more 'naturalized' look, with a mix of large canopy trees spaced approx. 100' to 200' o.c. situated among a farm meadow. The meadow will be planted with a native perennial seed mix and augmented by annual seed mix species for the first few years.

Zone 2: Event Center, Playground and Amphitheater

a) The Outdoor Venue space will allow visitors to host group events and outdoor gatherings adjacent to the conference and event center. The spaces to the north of the event center will feature a mix of lawn, hardscape, and ornamental planting. The first space will have more open space (lawn and hardscape) for guests to gather while the second space will have a higher ratio of plants to hardscape, featuring ornamental grasses and shrubs.
b) The event center overlooks a circular central lawn (sodded lawn) with accent planting in the two beds between the patios and the circular lawn.
c) Extending to the north, visitors will pass through a grove of ornamental trees (fruit or flowering), and meander down to the playground area which will be surrounded by planting beds featuring a mix of shrubs and perennials.
d) The amphitheater will be nestled into the hillside and have ornamental trees flanking the seat walls on either side.
e) The event center parking lot will be landscaped with sodded lawn and some shrubs, and code-required shade trees.

Zone 3: Dog Park

a) The dog park will feature separate fenced areas for large and small dogs and the surface will be hardwood mulch. There will be perimeter planting around the edge of the dog park and low shrubs between the fence and the sidewalk near the parking lot.

b) The parking lot at the dog park will feature lawn with code-required trees as well as some shrubs in all of the islands.

Zone 4: Athletic Field Promenades
a) the promenades traversing the space between the four field quadrants will feature sodded lawn with large deciduous canopy trees.

Zone 5: Amenity Park at Athletic Fields
a) At the southeastern corner of the field plaza, there will be a park for families to bring young kids or a picnic while their siblings or friends are playing on the fields. There will be an open-air picnic shelter surrounded by lawn with some areas of ornamental perennial and shrub plantings. Towards the athletic field parking lot, there will be a grove of ornamental (fruit or flowering) trees to form a small grove, similar in nature to the space between the central lawn and the playground at the event center.

Zone 6: Athletic Field Parking Lot
a) This parking lot will feature sodded lawn islands with shrubs and code-required trees. Shrubs will be part of the enhanced landscape plan.

Zone 7: Swales at Edge of Fields
a) The bioretention area will contain a riprapped pretreatment area directly downstream of the piped inlet on the north side of the SCM. The bioretention cell will be downstream of the riprapped area and will be approximately 7,000 sf. The bioretention cell will contain approximately 2 to 4 inches of mulch and will be planted with herbaceous plants (no trees or shrubs) to achieve at least 75 percent plant coverage at five years after planting. (Alternatively, the entirety of the bioretention cell may be covered with non-clumping, deep-rooted sod.) Herbaceous plants will be chosen based on suggestions from NC DEQ for a bioretention cell. Beneath the mulch or sod, the bioretention area will contain a minimum 30" of media mix (per NC DEQ specifications). The interior side slopes of the bioretention area will be sodded with a tall fescue sod strip around the perimeter of the cell from elevation 358.50' to 360'. Interior side slopes on the eastern side of the swale may require slope stabilization.

Additional landscape areas:
a) 100' Landscape Buffer: This buffer area will span the length of where the site abuts Highway 401. There are some areas of existing vegetation that may be able to be counted towards the buffer requirement, but will have to be assessed to determine whether they can be counted in lieu of new planting. See typical detail for more information.

b) 20' Landscape Buffer: This buffer area will span the northern edge of the site. According to the current Rolesville UDO, this buffer serves as a semi-opaque screen from the ground up to a height of at least three feet. Canopy trees shall reach a height of at least 20 feet at maturity and have no unobstructed openings greater than 20 feet between canopies. This buffer may include a wall, an earthen berm, an opaque or semi- opaque fence existing or planted vegetation, or any appropriate combination of these elements to achieve the desired opacity. At least 50 percent of the required shrubs must be of the evergreen species. Shrubbery is to be planted sufficiently close together to form an opaque screen within three years after planting. Much of this buffer appears to be covered with existing vegetation, so proposed planting may be limited to areas where there is not currently vegetation, pending that plant material meets the Town's requirements.

c) Woodland Edge Planting: In areas where the existing tree line is disturbed, we are proposing restoration planting along the edge to both enhanced the appearance of the woodland edge and re-establish some areas to balance out others where trees will be removed for the proposed design layout. The typical details show a combination of pine and redbud mix seedlings and deciduous and evergreen canopy trees with some ornamental trees and shrubs dispersed throughout.

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF ROLESVILLE ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

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ADDRESS ROLESVILLE NC 27571
PHONE: 919.554.6582

FRAZIER FARM PARK
30% CONSTRUCTION DRAWINGS
11624 LOUISBURG ROAD
ROLESVILLE, NORTH CAROLINA

NORTH CAROLINA 1960 SHWETA NANEKAR PROFESSIONAL LANDSCAPE ARCHITECT SEAL 2020 NOT FOR CONSTRUCTION

REVISIONS

NO. DATE

PLAN INFORMATION

PROJECT NO. 202011039
FILENAME 202011039-LS1
CHECKED BY SN
DRAWN BY PTH
SCALE VARIES
DATE 05. 28. 2021

SHEET

PLANTING DETAILS

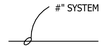
LD1.02

M:\Projects\TownRolesville\202011039 Frazier Farm Park\04 Production\Engineering\Construction Drawings\202011039-LD1.dwg, 5/28/2021 9:39:32 AM, Bell, Josh

FIRE PROTECTION ABBREVIATIONS

#	POUNDS; NUMBER
ACV	ALARM CHECK VALVE
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISTICTION
ALT	ALTERNATE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ARCH	ARCHITECTURAL; ARCHITECT
AUTO	AUTOMATIC
BAS	BUILDING AUTOMATION SYSTEM
BOP	BOTTOM OF PIPE
CAP	CAPACITY
CLG	CEILING
COL	COLUMN
CONC	CONCRETE
CTR	CENTER
CUFT	CUBIC FOOT; CUBIC FEET
CUYD	CUBIC YARD
CV	CHECK VALVE
DCDA	DOUBLE CHECK DETECTOR ASSEMBLY
DI	DUCTILE IRON
DIA	DIAMETER
DIV	DIVISION
DN	DOWN
DPV	DRY PIPE VALVE
DWG	DRAWING
EA	EACH
ELEC	ELECTRICAL
ELEV	ELEVATION
EQUIP	EQUIPMENT
EXIST	EXISTING
FCV	FLOOR CONTROL VALVE
FDC	FIRE DEPARTMENT CONNECTION
FDV	FIRE DEPARTMENT VALVE
FFE	FINISHED FLOOR ELEVATION
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FHVC	FIRE HOSE VALVE CABINET
FL	FLOOR
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE
FM	FACTORY MUTUAL
FP	FIRE PROTECTION OR FIRE PUMP
FPC	FIRE PUMP CONTROLLER
FS	FLOW SWITCH
FT	FOOT; FEET
FTG	FOOTING
GAL	GALLONS
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
HORIZ	HORIZONTAL
HP	HORSE POWER
HT	HEIGHT
ID	INSIDE DIAMETER
IN	INCH
JP	JOCKEY PUMP
JPC	JOCKEY PUMP CONTROLLER
MAX	MAXIMUM
MCA	MINIMUM CIRCUIT AMPS
MFG	MANUFACTURING
MFR	MANUFACTURER
MIN	MINIMUM
MOCP	MAXIMUM OVER CURRENT PROTECTION
MTD	MOUNTED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OPNG	OPENING
OSY	OUTSIDE SCREW AND YOKE
PIV	POST INDICATOR VALVE
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
QTY	QUANTITY
RCV	RISER CHECK VALVE
REINF	REINFORCING
REV	REVISION
RM	ROOM
RPDA	REDUCED PRESSURE DETECTOR ASSEMBLY
RPM	REVOLUTIONS PER MINUTE
SCH	SCHEDULE
SECT	SECTION
SF	SQUARE FEET
SP	STANDPIPE
SPCV	SUCTION PRESSURE CONTROL VALVE
SPEC	SPECIFICATION
SPRK	SPRINKLER SPRINKLER
SYM	SYMBOL OR SYMMETRICAL
TOP	TOP OF PIPE
TOS	TOP OF STEEL
TS	TAMPER SWITCH
TYP	TYPICAL
UF	UNDER FLOOR
UL	UNDERWRITERS LABORATORIES
UNO	UNLESS NOTED OTHERWISE
UTIL	UTILITY
VERT	VERTICAL
W/	WITH
W/O	WITHOUT
WMA	WATER MOTOR ALARM
Ø	ROUND; DIAMETER; PHASE

FIRE PROTECTION PIPING SYMBOLS



PIPE SIZE AND SYSTEM IDENTIFICATION (SEE ABBREVIATIONS FOR SYSTEM TYPES)

EXISTING PENDENT SPRINKLER HEAD TO REMAIN

NEW HEAD LOCATION

ALARM CHECK OR PREACTION VALVE

DRY PIPE VALVE

SIAMESE FIRE DEPT. CONNECTION

STORZ FIRE DEPT. CONNECTION

FIRE HYDRANT LOCATION

TYPICAL HANGER LOCATION

HYDRAULIC CALCULATION NODE

ROADWAY VALVE AND BOX

TEST HEADER

THRUST BLOCK

VALVE (REFER TO SPECIFICATIONS)

GATE VALVE

BALL VALVE

CHECK VALVE

OSY GATE VALVE W/ TAMPER SWITCH

BUTTERFLY VALVE W/ TAMPER SWITCH

FLOW SWITCH

SPRINKLER ZONE CONTROL VALVE ASSEMBLY

WATER MOTOR ALARM

EXISTING PIPING

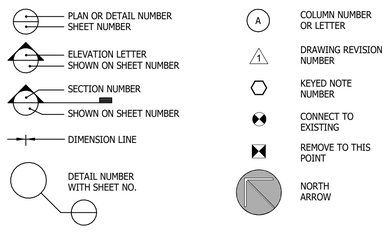
PIPING TO BE DEMOLISHED

NEW PIPING

ELECTRICAL SYMBOLS

VFD	VARIABLE FREQUENCY DRIVE
	MOTOR STARTER
	COMBINATION MOTOR STARTER/DISCONNECT
	FUSED DISCONNECT
NF	NON-FUSED DISCONNECT
	DISCONNECT, EXISTING OR BY OTHERS
PNL	POWER PANEL, EXISTING OR BY OTHERS
S	TOGGLE SWITCH
S_M	MOTOR RATED TOGGLE SWITCH

GENERAL SYMBOLS



SPRINKLER DESIGN DATA

Project Name: FRAZIER FARM EVENT CENTER			System: DRY
Project Street Address: 11624 LOUISBURG RD. WAKE FOREST, NC 27587			Sys. Sq. Ft.: 12,000 SF
Suite: N/A		Floor#: 1	Ceiling Height: .
Designed By: STANFORD WHITE		Phone: 919-832-8118	Total Bldg. Hgt.: .
Occupancy: .		Hazard: ORDINARY HAZARD GROUP 1	

DESIGN SUMMARY

	Zone #	Zone #	Zone #	Zone #	Zone #
Design Method	.	.	.	.	.
Design Area #	.	.	.	.	.
Location	.	.	.	.	.
Type of System	.	.	.	.	.
Hazard Class	.	.	.	.	.
Criteria From	.	.	.	.	.
Design Area	.	.	.	.	.
Protection Area	.	.	.	.	.
Sprinkler Spacing	.	.	.	.	.
Density	.	.	.	.	.
K-factor	.	.	.	.	.
Hose Allowance	.	.	.	.	.
G.P.M. Req'd	.	.	.	.	.
P.S.I. Req'd	.	.	.	.	.

WATER SUPPLY INFORMATION

Tested by		Date/Time	.	Pressure Hydrant	.
Hydrant Elevation	.	Flow Hydrant # 1	.	Flow Hydrant #2	.
Static (PSI)	.	Residual (PSI)	.	Flow (gpm)	.

FIRE PUMP DATA

Rated Capacity G.P.M.	.	Rated Pressure PSI	.	RPM / BHP	.
Pump Driver	.	MAX. Churn Pressure PSI	.	Pump Type	.
Combined Discharge	.	150% Flow (Suction)	.	150% Flow (gpm)	.
Certified Pump Curve Required					

FIRE PROTECTION GENERAL NOTES

1 COORDINATE WORK WITH OTHER TRADES PRIOR TO PURCHASE AND INSTALLATION OF ANY PIPING, DUCTWORK OR EQUIPMENT. NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES IMMEDIATELY.

2 REFER TO THE ARCHITECTURAL PLANS FOR DIMENSIONS. DO NOT SCALE THESE DRAWINGS.

3 ALL PIPING LAYOUTS AND LOCATIONS SHOWN ARE DIAGRAMMATIC AND DO NOT INDICATE ALL FITTINGS REQUIRED TO COMPLETE WORK. COORDINATE THE PIPING LAYOUT WITH ALL CONTRACTORS PRIOR TO INSTALLATION, INCLUDING CONDUITS AND CABLE TRAYS. PROVIDE ALL PIPING OFFSETS REQUIRED FOR THE COMPLETE INSTALLATION OF THE SYSTEM WHETHER OR NOT THE OFFSETS ARE INDICATED ON THE PLANS. INSTALL PIPING HIGH ENOUGH TO AVOID LIGHTS, CONDUIT AND MISCELLANEOUS PIPING. DO NOT BLOCK ACCESS TO DEVICES.

4 REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS AND ARCHITECTURAL DETAILS FOR EXACT LOCATION OF ALL CEILING AND SIDEWALL AIR DISTRIBUTION AND DEVICES.

5 INSTALL ALL EQUIPMENT WITH THE MANUFACTURER'S RECOMMENDATION AND CODE REQUIRED CLEARANCES. INSURE ALL ITEMS FURNISHED WILL FIT IN THE SPACE AVAILABLE. MAKE NECESSARY FIELD MEASUREMENTS TO ASCERTAIN SPACE REQUIREMENTS AND FURNISH AND INSTALL SUCH SIZES AND SHAPES OF EQUIPMENT THAT ARE THE TRUE INTENT AND MEANING OF THE PLANS AND SPECIFICATIONS. NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES PRIOR TO PURCHASE AND INSTALLATION.

6 COORDINATE EXACT SIZE AND LOCATION OF ALL PENETRATIONS THROUGH THE ROOF WITH ALL TRADES.

7 COORDINATE LOCATIONS AND ELEVATIONS OF ALL EXPOSED ITEMS WITH ARCHITECTURAL PLANS, ELEVATIONS, AND DETAILS.

8 FURNISH 24"x24" ACCESS DOORS (UNLESS OTHERWISE INDICATED) FOR ANY CONCEALED ITEMS, SUCH AS DRAINS, VALVES, ETC. COORDINATE EXACT LOCATIONS WITH ARCHITECT/ENGINEER PRIOR TO INSTALLATION.

9 THE ENTIRE FIRE PROTECTION SYSTEM SHALL BE INSTALLED IN A MANNER THAT IS COMPLIANT WITH ALL APPLICABLE CITY, COUNTY, AND NORTH CAROLINA STATE BUILDING CODE REQUIREMENTS, LOCAL BUILDING INSPECTOR REQUIREMENTS, ALL APPLICABLE NFPA STANDARDS, AS WELL AS THE STANDARDS OF THE UNDERWRITER WHERE REQUIRED. THE HAZARD CLASSIFICATION SHALL BE PER PLANS AND SPECIFICATIONS.

10 VERIFY LATEST ARCHITECTURAL ROOM, WALL, AND CEILING LAYOUTS PRIOR TO DESIGN OF SYSTEM.

11 SUBMIT DESIGN, INSTALLATION DRAWINGS, AND CALCULATIONS PRIOR TO THE START OF CONSTRUCTION, TO THE OWNER'S UNDERWRITER WHERE APPLICABLE, THE LOCAL FIRE MARSHALL, AND ANY OTHER AUTHORITIES HAVING JURISDICTION FOR REVIEW AND APPROVAL. DESIGN, INSTALLATION DRAWINGS, AND CALCULATIONS SHALL BE STAMPED OR SEALED BY A NICET III DESIGNER OR A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NORTH CAROLINA.

12 IDENTIFYING SIGNAGE, TAGS, AND LABELS CONFORMING TO THE FIRE PROTECTION INDUSTRY STANDARDS SHALL BE SECURELY AFFIXED TO THE SYSTEM.

13 CONTACT THE LOCAL FIRE DEPARTMENT AND VERIFY HOSE THREAD SIZE TO BE USED PRIOR TO START OF CONSTRUCTION.

14 SPRINKLERS INSTALLED IN AREAS WITHOUT CEILINGS, OR CEILING TILES, SHALL BE OF THE UPRIGHT TYPE.

15 SPRINKLER CONTRACTOR SHALL INSTALL SPRINKLER HEADS WITHIN THE CENTER OF ANY CEILING TILE BEING PENETRATED.

16 PARTIAL AREA SITE PLAN PROVIDED FOR SPRINKLER SYSTEM HYDRAULIC CALCULATION NODE REFERENCE ONLY. REFER TO SITE UTILITY AND CIVIL DRAWINGS FOR ALL SITE DEVELOPMENT AND UTILITY INFORMATION, AND ANY REQUIRED FDC'S AND PIV'S.

17 INSTALL A DRAIN AT ALL RISER LOCATIONS AS WELL AS ALL LOW POINTS IN THE SYSTEM. AN INSPECTORS TEST DRAIN SHALL BE INSTALLED ON THE SYSTEM. SPRINKLER PIPING SHALL SLOPE DOWN TO DRAIN LOCATIONS.

18 FIRE PROTECTION SYSTEMS FOR THIS PROJECT MUST BE PROTECTED AGAINST EARTHQUAKE DAMAGE. REFER TO BUILDING CODE SUMMARY AND SPECIFICATION SECTION 019923 "GENERAL SEISMIC REQUIREMENTS" FOR SEISMIC RESTRAINT REQUIREMENTS. NFPA 13 9.3 "PROTECTION OF PIPING AGAINST DAMAGE WHERE SUBJECT TO EARTHQUAKES" MAY BE USED IN LIEU OF CHAPTER 13 OF ASCE/SEI 7, DELEGATED SEISMIC SYSTEM DESIGN.

NOTE:
THESE FIRE PROTECTION DRAWINGS ARE DIAGRAMMATIC IN NATURE. THE EXACT SPRINKLER HEAD COUNT AND LOCATION SHALL BE DETERMINED BY THE FIRE PROTECTION CONTRACTOR. THE FIRE PROTECTION MAINS INDICATED ARE FOR REFERENCE GUIDANCE ONLY AND ARE THE ENGINEERS SUGGESTED ROUTING BUT THE FINAL ROUTING SHALL BE DETERMINED BY THE CONTRACTOR. THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE WORKING DRAWINGS IN ACCORDANCE WITH NFPA 13 FOR REVIEW AND APPROVAL BY THE ENGINEER AND APPLICABLE AHJ.

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1620 Midtown Place
Raleigh, NC 27609
NC License F-1434
tel 919.832.8118
stanfordwhite.com

FIRE PROTECTION DRAWING LIST

NO.	TITLE
FP001	STANDARDS, SYMBOLS & ABBREVIATIONS
FP002	SITE PLAN
FP111	EVENT CENTER FLOOR PLAN - FIRE PROTECTION
FP301	DETAILS
FP302	DETAILS

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PHONE: 919.556.3506

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F 919.839.2255
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Raleigh, NC 27605
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Integrated Design
architecture | interiors | planning

FRAZIER FARM PARK
ARCHITECTURAL DESIGN
PROJECT ADDRESS
11624 LOUISBURG ROAD
WAKE FOREST, NC 27587

REVIEW CARD
REVIEW DRAWING
DO NOT USE FOR CONSTRUCTION
SEAL 032567 ENGINEER KEVIN R. ALLEN

REVISIONS

PLAN INFORMATION

PROJECT NO.	202011039
FILENAME	TORLRPMP_CENTRAL_2020
CHECKED BY	KRA
DRAWN BY	BMM
SCALE	SEE VIEW
DATE	05. 28. 2021

SHEET

STANDARDS, SYMBOLS & ABBREVIATIONS

FP001

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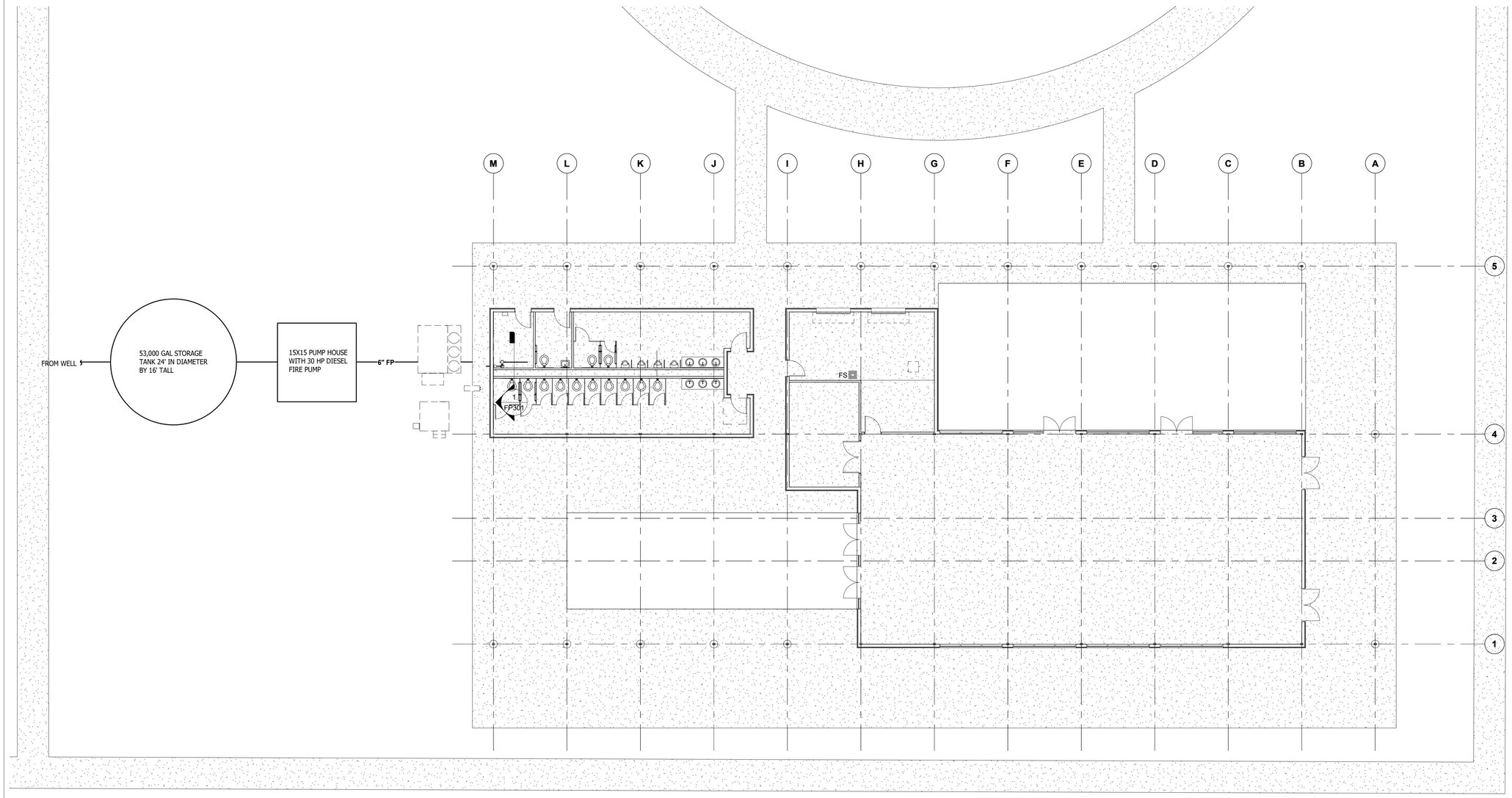
SW Project No:0651-01-00-20

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

5/28/2021 1:43:00 PM



1 FP002 **FIRE PROTECTION SITE PLAN**
SCALE: 1" = 10'-0"

10' 5' 0 10' 20'

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stanfordwhite.com

McAdams
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fax 919. 361. 2269
license number: C-0293

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PLAN INFORMATION

PROJECT NO.	202011039
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SHEET

SITE PLAN

FP002

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GENERAL NOTES:

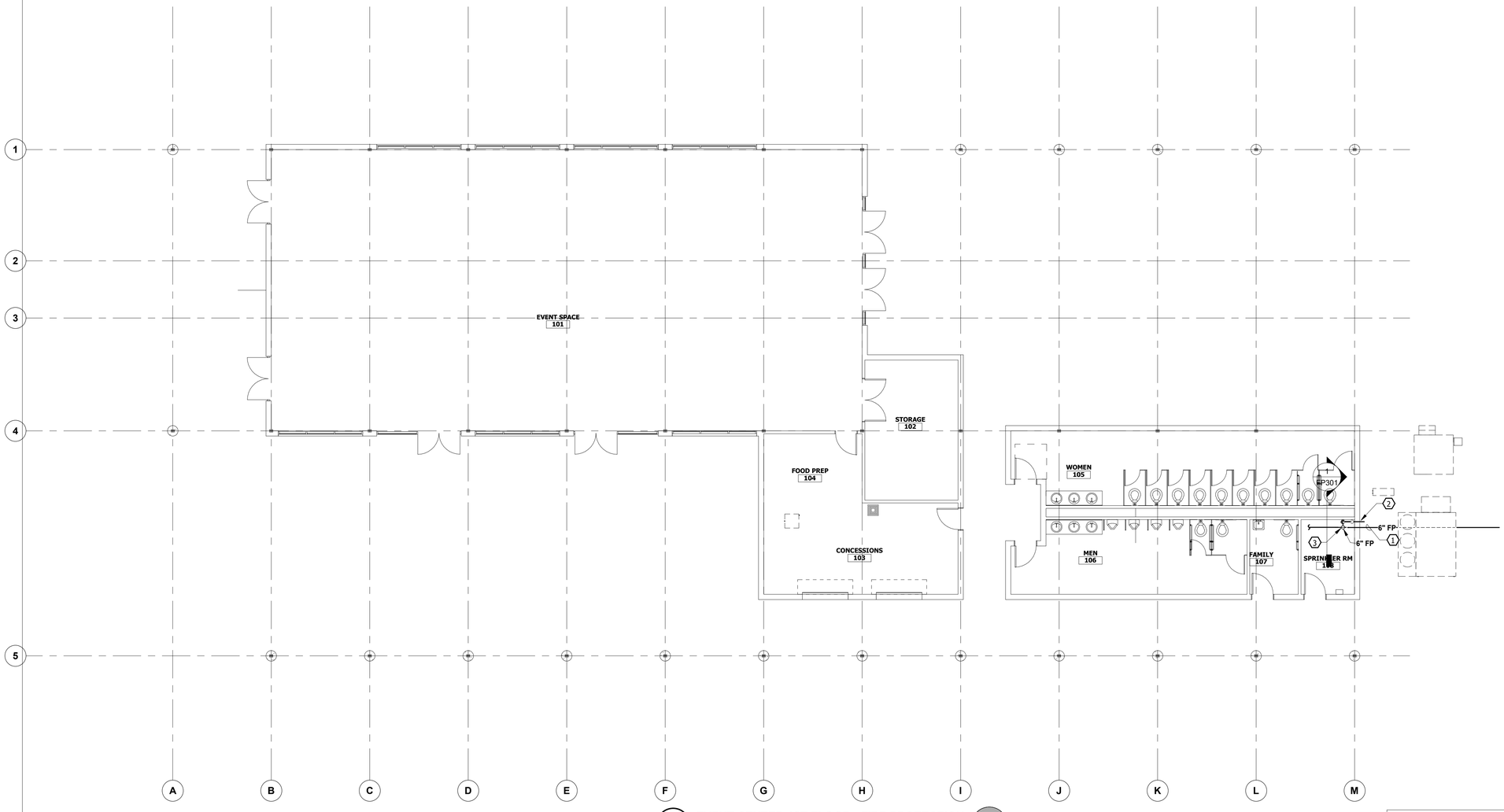
1. PROVIDE ORDINARY HAZARD GROUP 1 SPRINKLERS.

KEY NOTES TO FP111

1 6" UNDERGROUND FIRE SPRINKLER MAIN BY UTILITY CONTRACTOR. UTILITY CONTRACTOR TO STUB UP INTO BUILDING 1' AFF.

2 2" MAIN DRAIN TO EXTERIOR.

3 6" DRY PIPE VALVE WITH AIR COMPRESSOR.



1 FP111 **EVENT CENTER 1ST FLOOR - FIRE PROTECTION**
SCALE: 1/8" = 1'-0"
4' 0 4' 8' 12' 16' 20'

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EVENT CENTER FLOOR PLAN - FIRE PROTECTION
FP111

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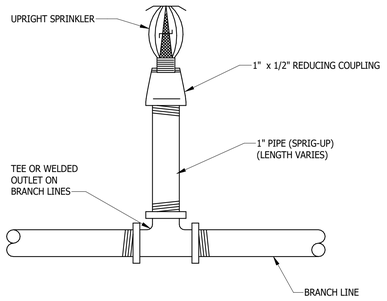
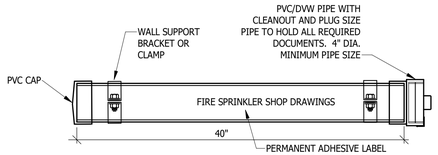


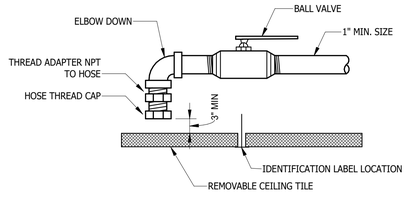
SW DETAIL: FP05

6 FP301 TYPICAL SPRIG-UP DETAIL
SCALE: NTS



SW DETAIL: FP07

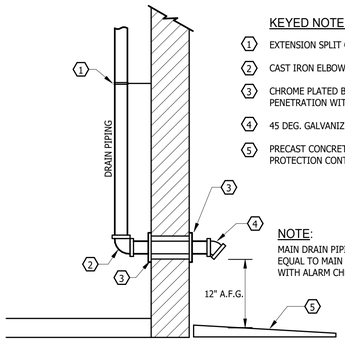
7 FP301 RECORD DRAWING STORAGE DETAIL
SCALE: NTS



NOTES:
1. PROVIDE IDENTIFICATION LABEL ON UNDERSIDE OF CEILING.

SW DETAIL: FP15

8 FP301 AUXILARY DRAIN VALVE
SCALE: NTS



KEYED NOTES:
1. EXTENSION SPLIT CLAMP.
2. CAST IRON ELBOW.
3. CHROME PLATED BRASS CEILING PLATE. SEAL PENETRATION WITH CAULK.
4. 45 DEG. GALVANIZED CAST IRON ELBOW.
5. PRECAST CONCRETE SPLASH BLOCK BY FIRE PROTECTION CONTRACTOR.

NOTE:
MAIN DRAIN PIPING SHALL BE SIZED EQUAL TO MAIN DRAIN VALVE PROVIDED WITH ALARM CHECK VALVE.

SW DETAIL: FP16

9 FP301 TYPICAL MAIN DRAIN DETAIL
SCALE: NTS

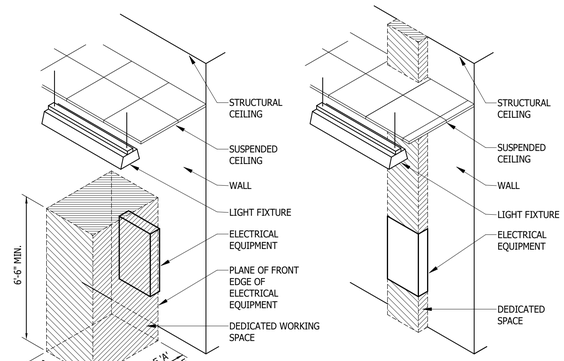


FIGURE 1

FIGURE 2

TABLE A - WORKING CLEARANCES				
VOLTAGE TO GROUND NOMINAL	CONDITION	MINIMUM CLEAR DISTANCE (FEET) 1	2	3
0-150		3	3	3
151-600		3	3 1/2	4

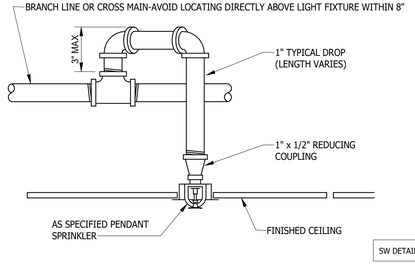
WHERE THE CONDITIONS ARE AS FOLLOWS:

1. EXPOSED LIVE PARTS ON ONE SIDE AND NO LIVE OR UNGROUNDED PARTS ON THE OTHER SIDE OF THE WORKING SPACE, OR EXPOSED LIVE PARTS ON BOTH SIDES EFFECTIVELY GUARDED BY SUITABLE WOOD OR OTHER INSULATING MATERIALS. INSULATED WIRE OR INSULATED BUSBARS OPERATING AT NOT OVER 300V SHALL NOT BE CONSIDERED LIVE PARTS.
2. EXPOSED LIVE PARTS ON ONE SIDE AND GROUNDED PARTS ON THE OTHER SIDE.
3. EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORK SPACE (NOT GUARDED AS PROVIDED IN CONDITION 1), WITH THE OPERATOR BETWEEN.

NOTES:
1. THESE FIGURES ILLUSTRATE THE WORKING CLEARANCE AND DEDICATED SPACE AROUND ELECTRICAL EQUIPMENT AS REQUIRED BY NEC SECTION 110-26.
2. DEDICATED SPACE RUNS TO A HEIGHT OF 6'-0" ABOVE EQUIPMENT. DEDICATED SPACE CONTINUES THROUGH SUSPENDED CEILING OR UP TO STRUCTURAL CEILING. ANY FOREIGN SYSTEMS TO THE ELECTRICAL EQUIPMENT SHALL NOT RUN WITHIN THIS SPACE. (FIGURE 2)

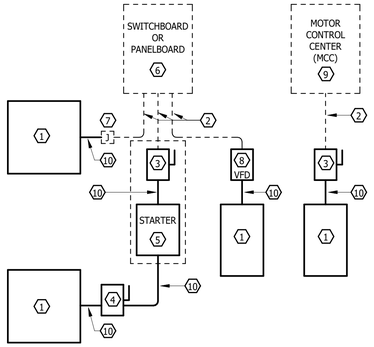
SW DETAIL: MR03

3 FP301 CLEARANCES FOR ELECTRICAL EQUIPMENT
SCALE: NTS



SW DETAIL: FP04

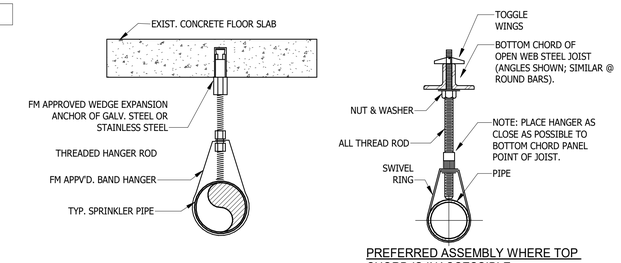
5 FP301 TYPICAL SPRINKLER DROP DETAIL
SCALE: NTS



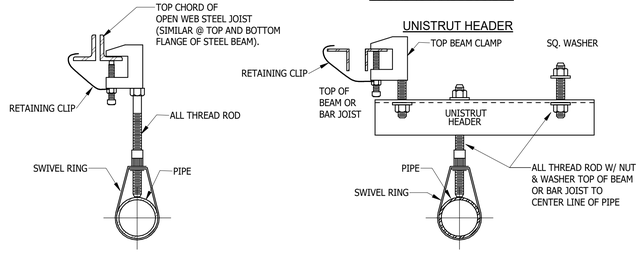
KEYED NOTES:
1. EQUIPMENT FURNISHED AND INSTALLED BY CONTRACTOR. CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS.
2. CONDUIT & WIRING BY DIVISION 26 CONTRACTOR.
3. PROVIDE DISCONNECT AND FUSING.
4. PROVIDE ADDITIONAL DISCONNECT IF REQUIRED BY NEC.
5. A COMBINATION STARTER MAY BE USED IN LIEU OF A SEPARATE DISCONNECT SWITCH AND STARTER.
6. POWER DISTRIBUTION EQUIPMENT BY DIVISION 26 CONTRACTOR.
7. JUNCTION BOX REQUIRED BY THE DIVISION 26 CONTRACTOR FOR EQUIPMENT IF NO STARTER IS REQUIRED. PROVIDE MOTOR-RATED DISCONNECT SWITCH WHERE REQUIRED BY CODE. THE DIVISION 26 CONTRACTOR SHALL PROVIDE LINE SIDE WIRING TO THE DISCONNECT. PROVIDE LOAD SIDE WIRING.
8. PROVIDE VARIABLE FREQUENCY DRIVE (VFD) WHERE NECESSARY.
9. FOR PROJECTS UTILIZING A MOTOR CONTROL CENTER (MCC), THE STARTER, CIRCUIT BREAKER OR VFD IN THE MCC SHALL BE PROVIDED BY THE DIVISION 26 CONTRACTOR.
10. PROVIDE RACEWAY & WIRING IN ACCORDANCE WITH REQUIREMENTS FOR RACEWAYS AND WIRING METHODS IN DIVISION 26 SPECIFICATIONS.

SW DETAIL: MR01

2 FP301 ELECTRICAL CONNECTIONS TO EQUIPMENT
SCALE: NTS

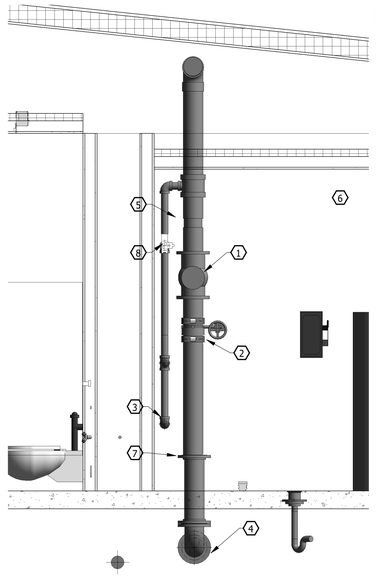


PREFERRED ASSEMBLY WHERE TOP CHORD IS INACCESSIBLE



NOTE: ALL HANGER ASSEMBLIES SHALL COMPLY WITH NFPA 13. HANGER ROD ONLY EXTENDS TO PIPE WHEN PRESSURES EXCEED 100 PSI.

4 FP301 TYPICAL FIRE PROTECTION HANGER
SCALE: NTS



KEY NOTES TO 1/FP301

1. 6" DRY PIPE VALVE WITH AIR COMPRESSOR.
2. BUTTERFLY CONTROL VALVE WITH TAMPER SWITCH.
3. 2" MAIN DRAIN TO EXTERIOR.
4. 6" UNDERGROUND FIRE SPRINKLER MAIN BY UTILITY CONTRACTOR TO 1' AFF.
5. WATER FLOW SWITCH.
6. ALARM BELL PROVIDED BY DIVISION 28 CONTRACTOR.
7. DIVISION 21 CONTRACTOR WORK
8. TEST AND DRAIN VALVE WITH PRESSURE RELIEF VALVE.

1 FP301 RISER ELEVATION DETAIL
SCALE: 1/2" = 1'-0"

SW DETAIL: FP01

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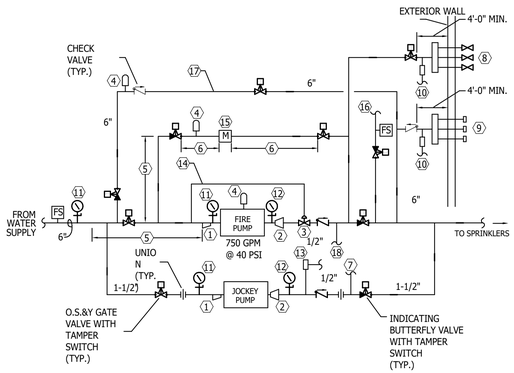
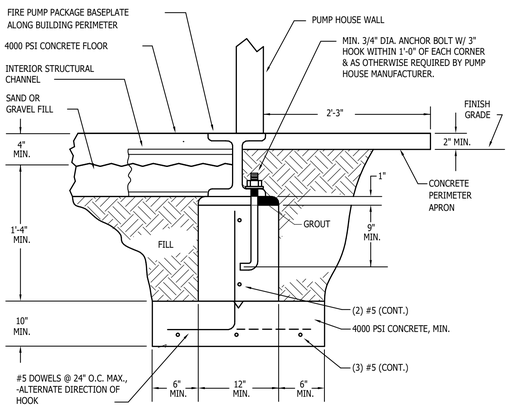


NOTES KEYED TO 2/FP302:

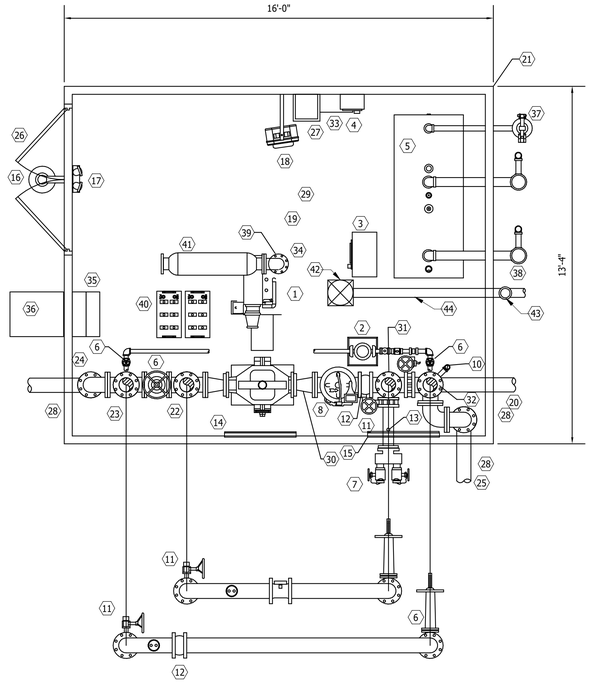
1. ECCENTRIC REDUCER IF REQUIRED.
2. CONCENTRIC REDUCER IF REQUIRED.
3. SUCTION PRESSURE CONTROL VALVE.
4. AUTOMATIC AIR RELEASE VALVE.
5. MINIMUM 10 PIPE DIAMETERS.
6. PROVIDE MINIMUM DISTANCES REQUIRED BY FLOW METER MANUFACTURER.
7. PRESSURE SENSING PIPE TO JOCKEY PUMP CONTROLLER.
8. PUMP TEST HEADER 42" AFG WITH HOSE VALVES, CAPS AND CHAINS AS REQUIRED BY NFPA 20.
9. FIRE DEPARTMENT CONNECTION 42" AFG.
10. AUTOMATIC DRIP WITH DRAIN PIPED TO EXTERIOR.
11. COMPOUND PRESSURE-VACUUM GAUGE WITH GAUGE COCK.
12. PRESSURE GAUGE WITH GAUGE COCK.
13. PRESSURE RELIEF VALVE WHEN REQUIRED. PIPE DISCHARGE TO EXTERIOR.
14. PUMP SUCTION PRESSURE SENSING PIPE. INSTALL IN ACCORDANCE WITH VALVE MANUFACTURER'S INSTRUCTIONS.
15. FLOW METER AS SPECIFIED. INSTALL IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.
16. TO PUMP HOUSE SPRINKLERS.
17. PUMP BYPASS.
18. PRESSURE SENSING PIPE TO FIRE PUMP CONTROLLER.

2 FP302 **FIRE PUMP SCHEMATIC**
SCALE: NTS



NOTE:
(1) BASEPLATE SETTING (BEFORE PIPING), GROUTING PROCEDURES AND FINAL ALIGNMENT TO BE IN ACCORDANCE WITH PUMP MANUFACTURER'S RECOMMENDED PROCEDURES.
(2) SEQUENCE OF INSTALLATION
A) FOOTINGS TO BE INSTALLED
B) PUMP HOUSE TO BE SET AND LEVELED
C) INTERIOR SLAB TO BE POURED/GROUTED IN-BETWEEN I-BEAMS

3 FP302 **FIRE PUMP HOUSE FOUNDATION DETAIL**
SCALE: NTS



NOTES KEYED TO 1/FP302:

1. HORIZONTAL SPLIT CASE DIESEL ENGINE DRIVEN FIRE PUMP.
2. JOCKEY PUMP ON 6" THICK CONCRETE PAD.
3. FIRE PUMP CONTROLLER.
4. JOCKEY PUMP CONTROLLER.
5. DOUBLE WALL FUEL TANK WITH LOW LEVEL FUEL SWITCH AND LEAK DETECTION SWITCH. PROVIDE PIPE SUPPORT LEGS.
6. 6" OS&Y GATE VALVE W/ TAMPER SWITCH.
7. HOSE HEADER WITH (2) 2-1/2" HOSE VALVES WITH CAPS AND CHAINS.
8. SUCTION PRESSURE CONTROL VALVE.
9. MAINTAIN 36" MINIMUM CLEARANCE FOR ELECTRICAL PANELS.
10. 1" PIPE TO PUMP HOUSE SPRINKLERS.
11. BUTTERFLY VALVE WITH TAMPER SWITCH.
12. CHECK VALVE.
13. BALL VALVE DRIP. PIPE DISCHARGE THRU WALL.
14. 12VDC LOUVER.
15. 120VAC LOUVER.
16. PHOTO CELL ACTIVATED EXTERIOR LIGHT.
17. BATTERY BACKUP EMERGENCY LIGHT.
18. ELECTRIC UNIT HEATER, 208v-3∅.
19. MINIMUM OF 4 CEILING MOUNTED FLUORESCENT LIGHTS (NOT SHOWN).
20. 6" SPRINKLER SYSTEM PIPE BELOW GRADE TO BUILDING BY UTILITY CONTRACTOR.
21. PREFABRICATED 1HR RATED FIRE PUMP HOUSE BY FIRE PUMP MANUFACTURER. SEE SPECIFICATIONS.
22. VERTICAL PIPE DOWN FROM FLOW METER.
23. VERTICAL PIPE UP TO PUMP BYPASS.
24. CONNECT TO 6" PIPE BY UTILITY CONTRACTOR 12" AFF. INSTALL FLOW SWITCH IN VERTICAL RISER
25. CONNECT TO 4" PIPE TO FDC BY UTILITY CONTRACTOR
26. 6'X7' DUAL DOOR RH SWING OUT WITH AUTOMATIC DOOR CLOSERS
27. 120/208V DISTRIBUTION PANEL
28. UTILITY CONTRACTOR TO PROVIDE CONCRETE THRUST BLOCK ON ELBOWS BELOW GROUND
29. PROVIDE CONCRETE/GROUT PAD FLUSH WITH TOP OF BASE PLATE STRUCTURE
30. PIPE DRAIN FROM STUFFING BOXES AND CASING RELIEF VALVE THRU WALL TO SPLASH BLOCK
31. VERTICAL PIPE UP TO FLOW METER
32. VERTICAL PIPE FROM PUMP BYPASS
33. INCOMING WIREWAY
34. DIESEL ENGINE
35. 120VAC EXHAUST FAN
36. EXTERNAL VENT HOOD
37. FUEL FILL LINE
38. TANK VENT LINE
39. 4" EXHAUST PIPING
40. BATTERIES FOR DIESEL ENGINE AND CABLES
41. 4" X 4" RESIDENTIAL GRADE MUFFLER WITH MOUNTING SUPPORT
42. FLOOR DRAIN BY DIVISION 22 CONTRACTOR
43. 2" VENT UP TO ABOVE ROOF BY DIVISION 22 CONTRACTOR
44. 4" WASTE PIPING BY DIVISION 22 CONTRACTOR

1 FP302 **FIRE PUMP DETAIL**
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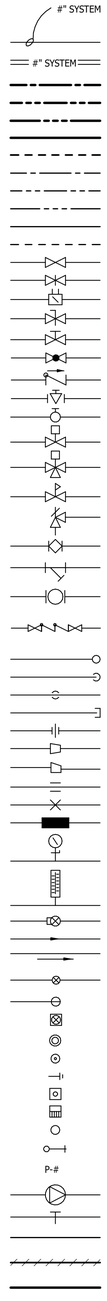
PLUMBING ABBREVIATIONS

Ø	ROUND; DIAMETER; PHASE
AW	ACID WASTE
BAS	BUILDING AUTOMATION SYSTEM
BFF	BELOW FINISHED FLOOR
BP	BACKFLOW PREVENTER
BHP	BRAKE HORSEPOWER
BOS	BOTTOM OF STEEL
BOP	BOTTOM OF PIPE
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
C	CELSIUS
CD	CONDENSATE DRAIN
CFH	CUBIC FEET PER HOUR
CI	CAST IRON
CLG	CEILING
CO	CLEAN OUT
CO2	CARBON DIOXIDE
CONC	CONCRETE
CPVC	CHLORINATED POLYVINYL CHLORIDE
CTR	CENTER
CU	COPPER
CUFT	CUBIC FOOT; CUBIC FEET
CUYD	CUBIC YARD
CW	COLD WATER
DDC	DIRECT DIGITAL CONTROLS
DI	DUCTILE IRON
DIA	DIAMETER
DIW	DEIONIZED WATER
DIV	DIVISION
DN	DOWN
DWG	DRAWING
EA	EACH
AV	ACID VENT
AUTO	AUTOMATIC
ARCH	ARCHITECTURAL; ARCHITECT
ALT	ALTERNATE
AFH	ANTI-FREEZE HYDRANT
AFG	ABOVE FINISHED GRADE
AFF	ABOVE FINISHED FLOOR
AFC	ABOVE FINISHED CEILING
ACFM	ACTUAL CUBIC FEET PER MINUTE
AAV	AIR ADMITTANCE VALVE
A	COMPRESSED AIR
#	POUNDS; NUMBER
EFF	EFFICIENCY
ELEV	ELEVATION
ELEC	ELECTRICAL
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EXIST	EXISTING
EXP	EXPANSION
F	FAHRENHEIT
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FFE	FINISHED FLOOR ELEVATION
FL,FLR	FLOOR
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE
FS	FLOOR SINK
FT	FOOT; FEET
G	NATURAL GAS
GA	GAGE
GAL	GALLONS
GC	GENERAL CONTRACTOR
GCO	GRADE CLEANOUT
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GWH	GAS WATER HEATER
HB	HOSE BIBB
HD	HUB DRAIN; HEAT DETECTOR
HORIZ	HORIZONTAL
HP	HIGH PRESSURE OR HORSEPOWER
HT	HEIGHT
HTG	HEATING
HW	HOT WATER
HWR	HOT WATER RETURN
HX	HEAT EXCHANGER
ID	INDIRECT DRAIN OR INSIDE DIAMETER
IN	INCH
INV	INVERT
KW	KILOWATT
LP	LOW PRESSURE
LPG	LIQUID PETROLEUM GAS

PLUMBING ABBREVIATIONS

MA	MEDICAL AIR
MAX	MAXIMUM
MBH	1000 BRITISH THERMAL UNITS PER HOUR
MCA	MINIMUM CIRCUIT AMPS
MECH	MECHANICAL
MFG	MANUFACTURING
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MOCP	MAXIMUM OVER CURRENT PROTECTION
MP	MEDIUM PRESSURE
MRT	MOTOR RATED TOGGLE SWITCH
MS	MOTOR STARTER
MS/D	COMBINATION MOTOR STARTER & DISCONNECT
MTD	MOUNTED
N	NITROGEN
N.C.	NORMALLY CLOSED
NO	NITROUS OXIDE
N.O.	NORMALLY OPEN
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
0	OXYGEN
OC	ON CENTER
OD	OUTSIDE DIAMETER, OVERFLOW (EMERGENCY) DRAIN
ODL	OVERFLOW (EMERGENCY) DRAIN LEADER
OSD	OPEN SIGHT DRAIN
P	PUMP
PD	PRESSURE DROP; PUMPED DISCHARGE
PRV	PRESSURE REDUCING VALVE; PRESSURE RELIEF VALVE
PSI	POUNDS PER SQUARE INCH
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
PSIG	POUNDS PER SQUARE INCH GAUGE
PVC	POLYVINYL CHLORIDE
QTY	QUANTITY
RD	ROUND; ROOF DRAIN
RDL	ROOF DRAIN LEADER
RECIRC	RECIRCULATING
REINF	REINFORCING
REV	REVISION
RL	ROOF LEADER
RO	REVERSE OSMOSIS
RPM	REVOLUTIONS PER MINUTE
RPZ	REDUCED PRESSURE ZONE
RM	ROOM
SCFM	STANDARD CUBIC FEET PER MINUTE
SCH	SCHEDULE
SD	STORM DRAIN
SECT	SECTION
SPEC	SPECIFICATION
SF	SQUARE FEET
SRV	SAFETY RELIEF VALVE
SS	SERVICE SINK; STAINLESS STEEL; SANITARY SEWER
ST	STORM
TD	TRENCH DRAIN
TMV	THERMOSTATIC MIXING VALVE
TOP	TOP OF PIPE
TOS	TOP OF STEEL
TWH	TANKLESS WATER HEATER
XT	THERMAL EXPANSION TANK
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
V	VENT
VAC	VACUUM (SUCTION)
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VTR	VENT THRU ROOF
W	WASTE
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET/WATER COLUMN
WCO	WALL CLEANOUT
WH	WATER HEATER
WPD	WORKING PRESSURE DROP

PLUMBING PIPING SYMBOLS

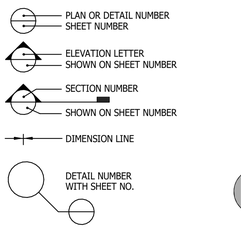


PIPE SIZE AND SYSTEM IDENTIFICATION (SEE ABBREVIATIONS FOR SYSTEM TYPES)
DOMESTIC COLD WATER
DOMESTIC HOT WATER SUPPLY
DOMESTIC HOT WATER RETURN
SANITARY, SOIL OR WASTE
SANITARY, SOIL OR WASTE VENT
EXISTING DOMESTIC COLD WATER
EXISTING DOMESTIC HOT WATER SUPPLY
EXISTING DOMESTIC HOT WATER RETURN
EXISTING SANITARY, SOIL OR WASTE
EXISTING SANITARY, SOIL OR WASTE VENT
VALVE (REFER TO SPECIFICATIONS)
BALANCING VALVE (REFER TO SPECIFICATIONS)
CALIBRATED BALANCING VALVE
BUTTERFLY VALVE
GATE VALVE
GLOBE VALVE
CHECK VALVE
PLUG VALVE
BALL VALVE
2-WAY CONTROL VALVE
3-WAY CONTROL VALVE
PRESSURE REDUCING VALVE
PRESSURE RELIEF VALVE
GAS COCK
Y-TYPE STRAINER
BASKET STRAINER
BACKFLOW PREVENTER
PIPE TURNING UP
PIPE TURNING DOWN
PIPE CONNECTION AT BOTTOM OF MAIN
PIPE CAP
PIPE UNION
CONCENTRIC REDUCER
ECCENTRIC REDUCER
PIPE ALIGNMENT GUIDE
PIPE ANCHOR
FLEXIBLE PIPE CONNECTION
PRESSURE GAUGE
THERMOMETER
STEAM TRAP
DIRECTION OF FLOW IN PIPE
SLOPE PIPE IN DIRECTION OF ARROW
WATER HAMMER ARRESTER OR SHOCK ABSORBER
AIR ADMITTANCE VALVE
FLOOR DRAIN
ROOF DRAIN
FLOOR CLEANOUT
WALL CLEANOUT
GRADE CLEANOUT
FLOOR SINK
HUB DRAIN
HOSE BIBB/WALL HYDRANT
PLUMBING FIXTURE DESIGNATION
PUMP
PETES PLUG (P & T PORT)
EXISTING PIPING
PIPING TO BE DEMOLISHED
NEW PIPING

ELECTRICAL SYMBOLS

VARIABLE FREQUENCY DRIVE
MOTOR STARTER
COMBINATION MOTOR STARTER/DISCONNECT
FUSED DISCONNECT
NON-FUSED DISCONNECT
DISCONNECT, EXISTING OR BY OTHERS
POWER PANEL, EXISTING OR BY OTHERS
TOGGLE SWITCH
MOTOR RATED TOGGLE SWITCH

GENERAL SYMBOLS



PLAN OR DETAIL NUMBER / SHEET NUMBER
ELEVATION LETTER / SHOWN ON SHEET NUMBER
SECTION NUMBER / SHOWN ON SHEET NUMBER
DIMENSION LINE
DETAIL NUMBER / WITH SHEET NO.
COLUMN NUMBER OR LETTER
DRAWING REVISION NUMBER
KEYED NOTE NUMBER
CONNECT TO EXISTING
REMOVE TO THIS POINT
NORTH ARROW

PLUMBING GENERAL NOTES

1. COORDINATE WORK WITH OTHER TRADES PRIOR TO PURCHASE AND INSTALLATION OF ANY PIPING, OR EQUIPMENT. NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES PRIOR TO INSTALLATION.
2. REFER TO THE ARCHITECTURAL PLANS FOR DIMENSIONS. DO NOT SCALE THESE DRAWINGS.
3. ALL PIPING LAYOUTS AND LOCATIONS SHOWN ARE DIAGRAMMATIC AND DO NOT INDICATE ALL FITTINGS REQUIRED TO COMPLETE WORK. COORDINATE THE PIPING LAYOUT WITH ALL CONTRACTORS PRIOR TO INSTALLATION, INCLUDING CONDUITS AND CABLE TRAYS. PROVIDE ALL PIPING OFFSETS REQUIRED FOR THE COMPLETE INSTALLATION OF THE SYSTEM WHETHER OR NOT THE OFFSETS ARE INDICATED ON THE PLANS. INSTALL PIPING HIGH ENOUGH TO AVOID LIGHTS, CONDUIT AND MISCELLANEOUS PIPING, BUT LOW ENOUGH TO ALLOW FOR EASY ACCESS TO SYSTEM BALANCING DEVICES. DO NOT BLOCK ACCESS TO DEVICES.
4. LOCATE PIPING AND EQUIPMENT SUCH THAT ACCESS PANELS MAY BE FULLY OPENED (VIA TILE CEILING) FOR SERVICING VALVES. COORDINATE LOCATION WITH LIGHTING FIXTURES OR ANY OTHER EQUIPMENT.
5. COORDINATE WORK WITH OTHER TRADES PRIOR TO PURCHASE AND INSTALLATION OF EQUIPMENT AND MATERIALS. NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES IMMEDIATELY.
6. INSTALL ALL EQUIPMENT WITH THE MANUFACTURER'S RECOMMENDATION AND CODE REQUIRED CLEARANCES. INSURE ALL ITEMS FURNISHED WILL FIT IN THE SPACE AVAILABLE. MAKE NECESSARY FIELD MEASUREMENTS TO ASCERTAIN SPACE REQUIREMENTS AND FURNISH AND INSTALL SUCH SIZES AND SHAPES OF EQUIPMENT THAT ARE THE TRUE INTENT AND MEANING OF THE PLANS AND SPECIFICATIONS. NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES PRIOR TO PURCHASE AND INSTALLATION.
7. COORDINATE EXACT SIZE AND LOCATION OF ALL PENETRATIONS THROUGH THE ROOF WITH ALL TRADES.
8. COORDINATE LOCATIONS AND ELEVATIONS OF ALL EXPOSED ITEMS WITH ARCHITECTURAL PLANS, ELEVATIONS, AND DETAILS. THESE ITEMS INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING: SENSORS, WALL DEVICES, CONTROL PANELS, AND ALARMS.
9. FURNISH 24"x24" ACCESS DOORS (UNLESS OTHERWISE INDICATED) AT ALL MAINTENANCE ITEMS THAT ARE CONCEALED; SUCH AS EQUIPMENT, VALVES, SENSORS, ETC. COORDINATE EXACT LOCATIONS WITH ARCHITECT/ENGINEER PRIOR TO INSTALLATION.
10. THE SIZE OF COLD AND HOT WATER PIPE RUNOUTS TO FIXTURES SHALL BE THE SAME AS THE POTABLE WATER CONNECTIONS LISTED IN THE PLUMBING FIXTURE SCHEDULE, UNLESS NOTED OTHERWISE.
11. THE SIZE OF SANITARY WASTE AND VENT PIPING TO FIXTURE SHALL BE THE SAME AS WASTE AND VENT CONNECTIONS LISTED IN THE PLUMBING FIXTURE SCHEDULE, UNLESS NOTED OTHERWISE.
12. LOW EMITTING ADHESIVE & SEALANT MATERIALS AND PAINTS & COATINGS SHALL BE USED BY ALL TRADES. ALL SUCH MATERIALS SHOULD BE LABELED WITH APPROPRIATE VOC LIMITS. MATERIALS THAT DO NOT COMPLY WILL BE REMOVED AND REAPPLIED WITH LOW VOC MATERIALS.
13. THIS PROJECT SHALL BE CONSTRUCTED TO MEET THE REQUIREMENTS OF THE USGBC LEED RATING SYSTEM FOR NEW CONSTRUCTION AND MAJOR RENOVATIONS. REVIEW PROJECT REQUIREMENTS PRIOR TO MOBILIZATION AND INFORM THE ENGINEER OF ANY QUESTIONS. DOCUMENTATION REQUIRED PRIOR TO, DURING AND AFTER CONSTRUCTION WILL BE PERIODICALLY REVIEWED BY THE ENGINEER TO ENSURE COMPLIANCE WITH LEED REQUIREMENTS.
14. SYSTEM COMMISSIONING IS REQUIRED PER THE DOCUMENTS PROVIDED BY THE COMMISSIONING AGENT (CXA).
15. THE CONSTRUCTION WASTE MANAGEMENT AND INDOOR AIR QUALITY PLANS INCLUDED IN THE DOCUMENTS WILL BE ENFORCED AND DOCUMENTED.
16. PLUMBING SYSTEMS FOR THIS PROJECT MUST BE PROTECTED AGAINST EARTHQUAKE DAMAGE. REFER TO BUILDING CODE SUMMARY AND SPECIFICATION SECTION 019923 "GENERAL SEISMIC REQUIREMENTS" FOR SEISMIC RESTRAINT REQUIREMENTS.

WATER & SANITARY LOAD SUMMARY

BUILDING AREA DESIGNATION	EVENT CENTER	MAINTENANCE	OCTAGON	.	.
SANITARY (FIXTURE UNITS)	75	7	57	.	.
WATER (FIXTURE UNITS)	164	8.4	75.5	.	.
WATER DEMAND (GPM)	81.9	23.16	59.76	.	.

MS55

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PLUMBING DRAWING LIST

NO.	TITLE
P001	STANDARDS, SYMBOLS & ABBREVIATIONS
P111	EVENT CENTER FLOOR PLAN
P112	EVENT CENTER FLOOR PLANS
P121	OCTAGON FIRST FLOOR PLAN - WATER
P122	OCTAGON FIRST FLOOR PLAN - SANITARY
P131	MAINTENANCE FLOOR PLAN - WATER
P132	MAINTENANCE FLOOR PLAN - SANITARY
P401	SCHEDULES

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STANDARDS, SYMBOLS & ABBREVIATIONS

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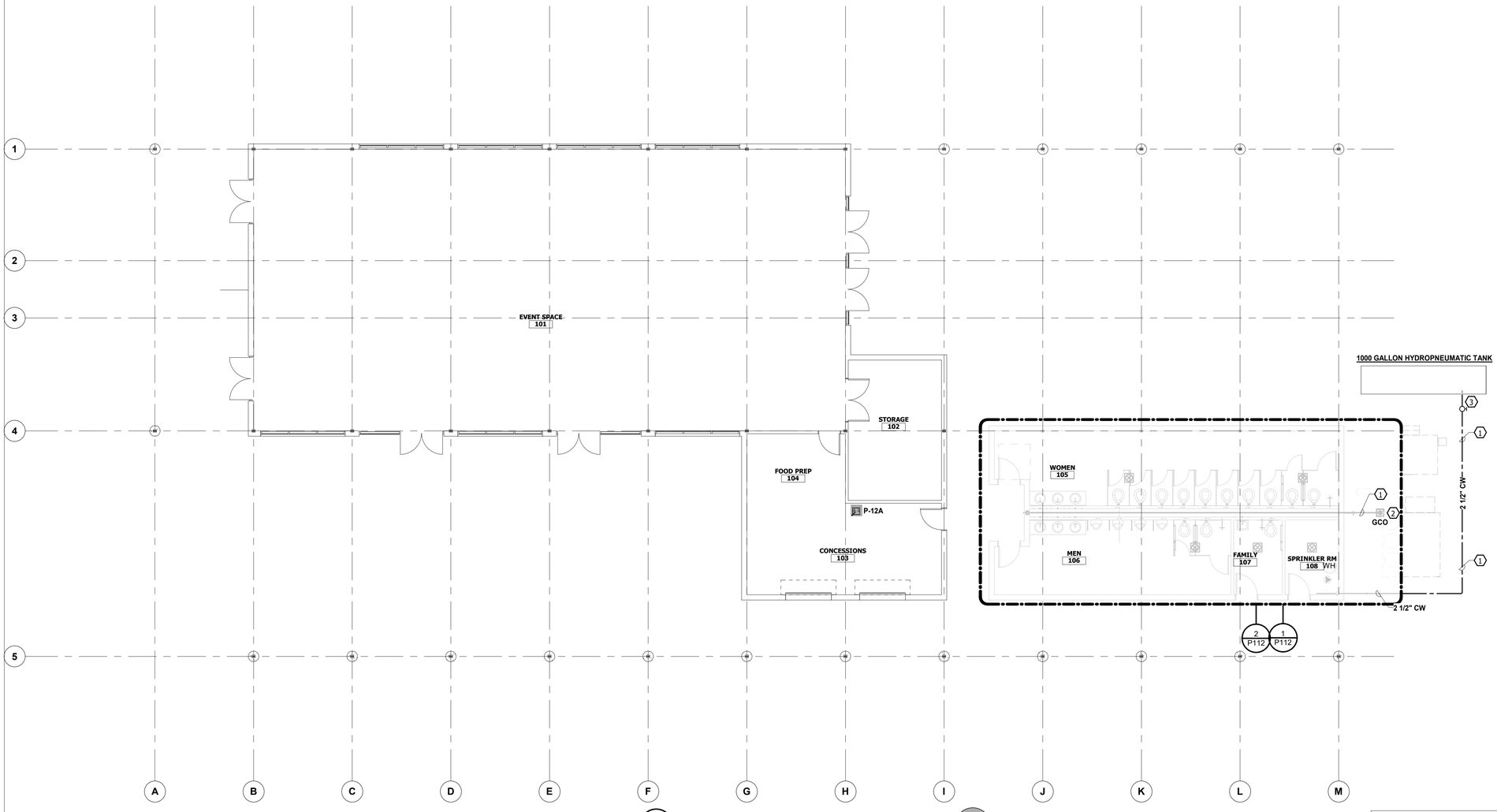
KEY NOTES TO P111

1 BELOW GRADE.

2 CONNECT TO SANITARY SEWER BY UTILITY CONTRACTOR AT BUILDING 10' LINE. COORDINATE WITH UTILITY CONTRACTOR.

3 2-1/2" DOMESTIC WATER SERVICE CONNECTION TO HYDROPNEUMATIC TANK.



1 P111 **EVENT CENTER FLOOR PLAN - WATER**
SCALE: 1/8" = 1'-0"

4' 0 4' 8' 12' 16' 20'

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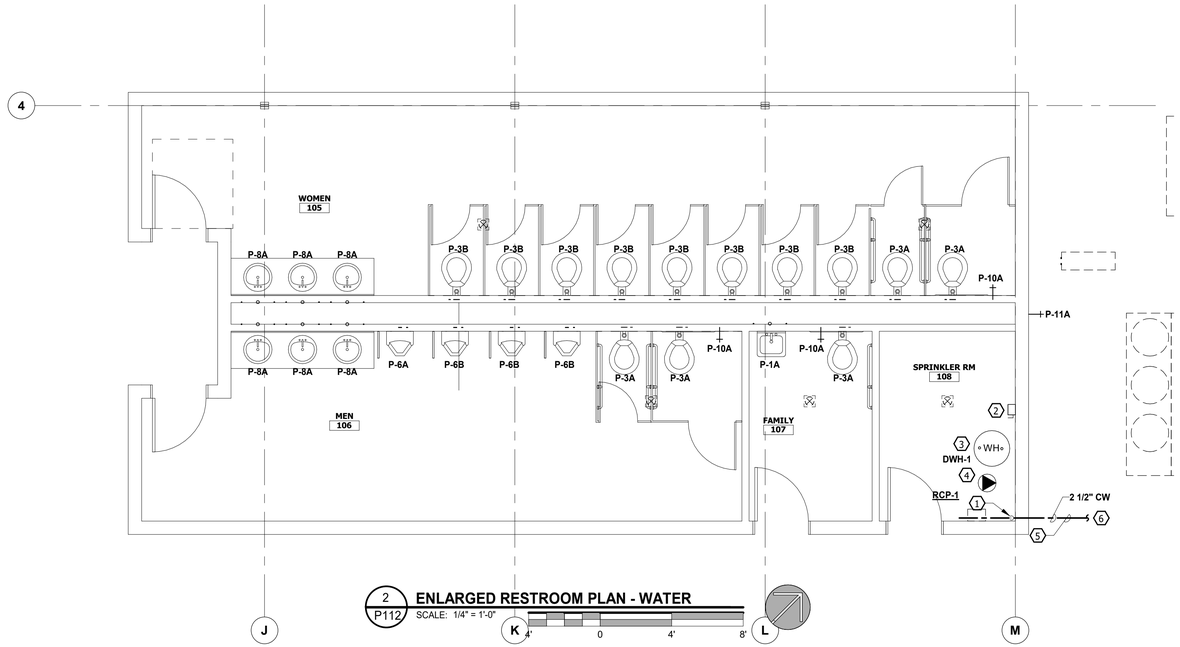
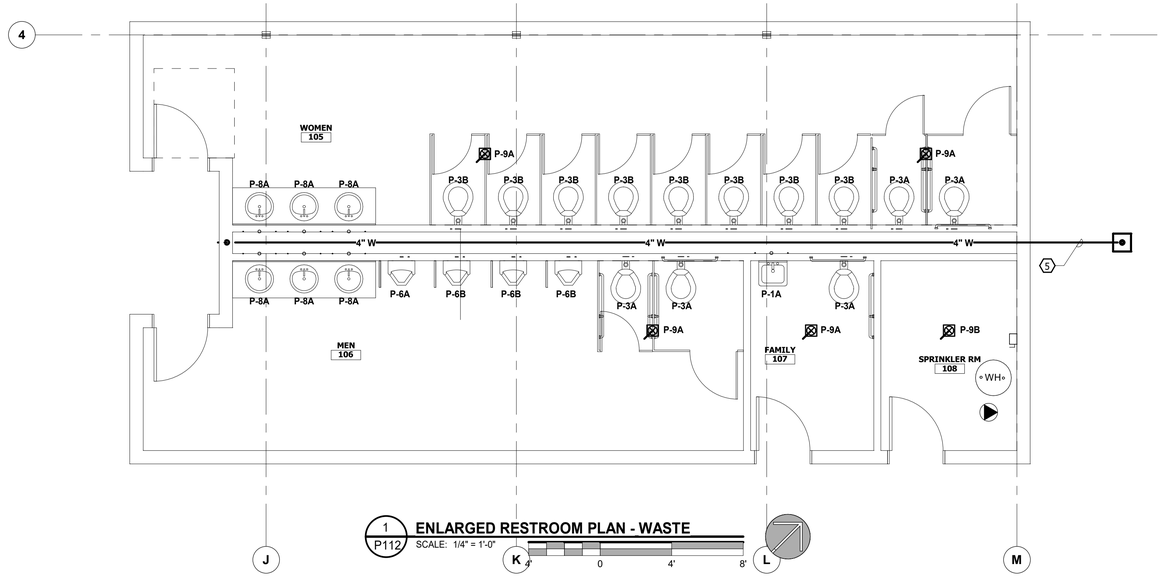
EVENT CENTER FLOOR PLAN

P111



2 / P112 **ENLARGED RESTROOM PLAN - WATER**

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



1 / P112 **ENLARGED RESTROOM PLAN - WASTE**

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

KEY NOTES TO P112

1 INTERIOR WATER MAIN SHUTOFF VALVE IN VERTICAL PIPE.

2 HEAVY DUTY, FUSED DISCONNECT SWITCH.

3 WATER HEATER. SEE DETAIL.

4 IN-LINE HOT WATER RETURN PUMP.

5 BELOW GRADE.

6 2-1/2" DOMESTIC WATER SERVICE ENTRY. COORDINATE WITH UTILITY CONTRACTOR.

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EVENT CENTER FLOOR PLANS

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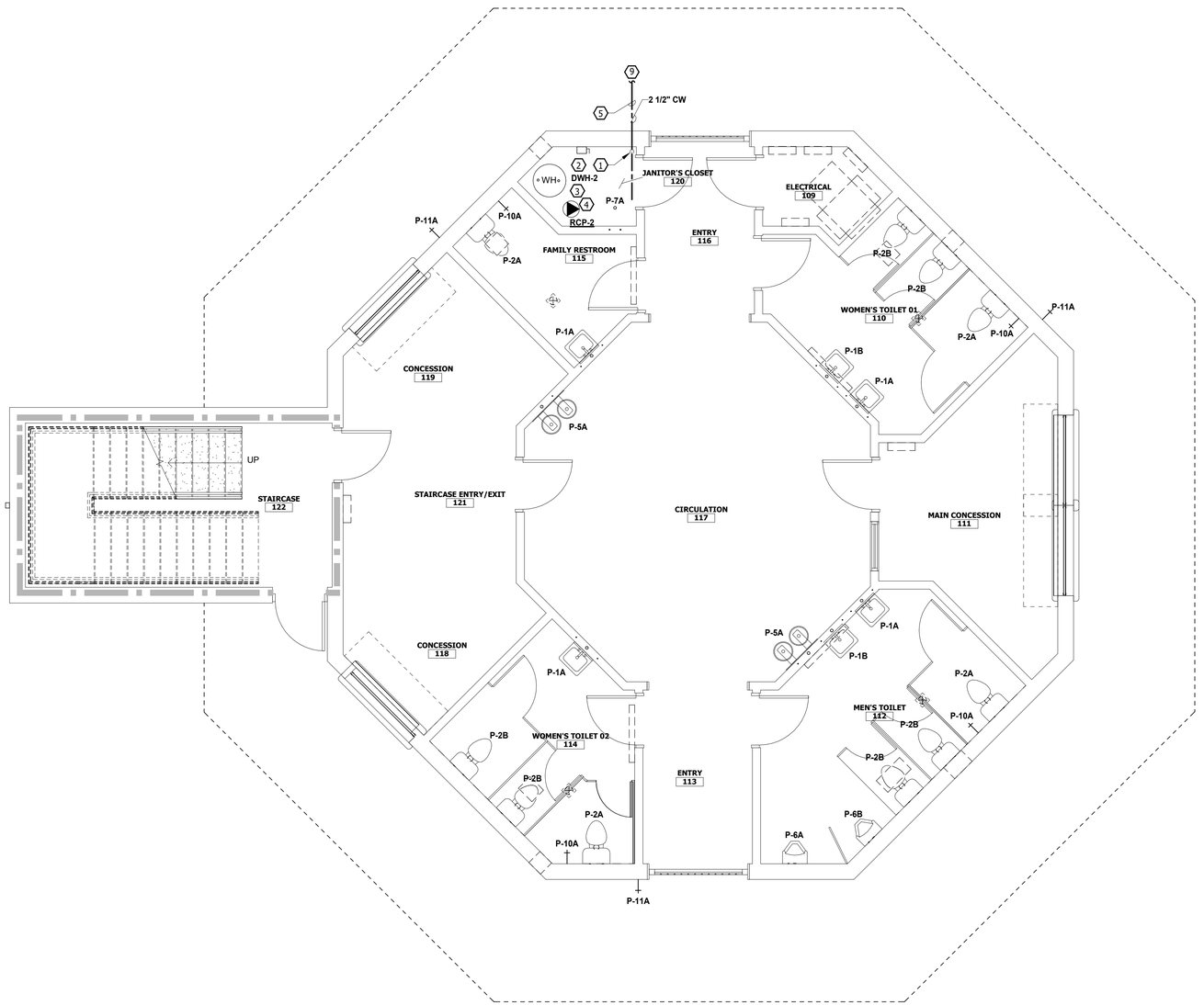

1 / P121 **OCTAGON FIRST FLOOR PLAN - WATER**

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

4' 0 4' 8' 12' 16' 20'

KEY NOTES TO P121

1 INTERIOR WATER MAIN SHUTOFF VALVE IN VERTICAL PIPE.

2 HEAVY DUTY, FUSED DISCONNECT SWITCH.

3 WATER HEATER. SEE DETAIL.

4 IN-LINE HOT WATER RETURN PUMP.

5 BELOW GRADE.

6 2-1/2" DOMESTIC WATER SERVICE ENTRY. CONNECT TO DOMESTIC WATER SERVICE BY UTILITY CONTRACTOR AT 10' BUILDING LINE. COORDINATE WITH UTILITY CONTRACTOR.

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OCTAGON FIRST FLOOR PLAN - WATER

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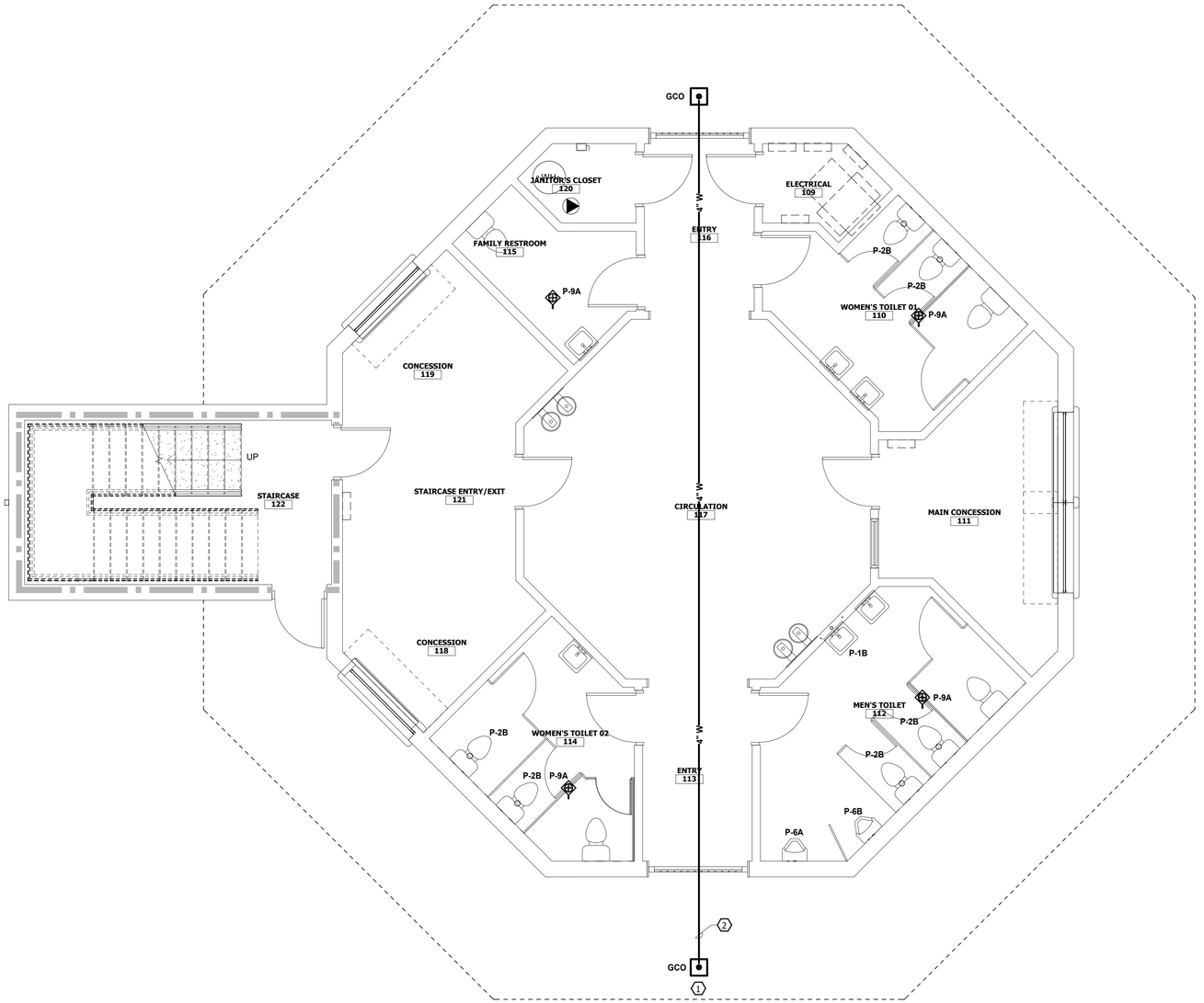

1 P122 **OCTAGON FIRST FLOOR PLAN - SANITARY**

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

4' 0 4' 8' 12' 16' 20'

KEY NOTES TO P122

1 CONNECT TO SANITARY SEWER BY UTILITY CONTRACTOR AT BUILDING 10' LINE. COORDINATE WITH UTILITY CONTRACTOR.

2 BELOW GRADE.

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OCTAGON FIRST FLOOR PLAN - SANITARY

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KEY NOTES TO P131

1 INTERIOR WATER MAIN SHUTOFF VALVE IN VERTICAL PIPE.

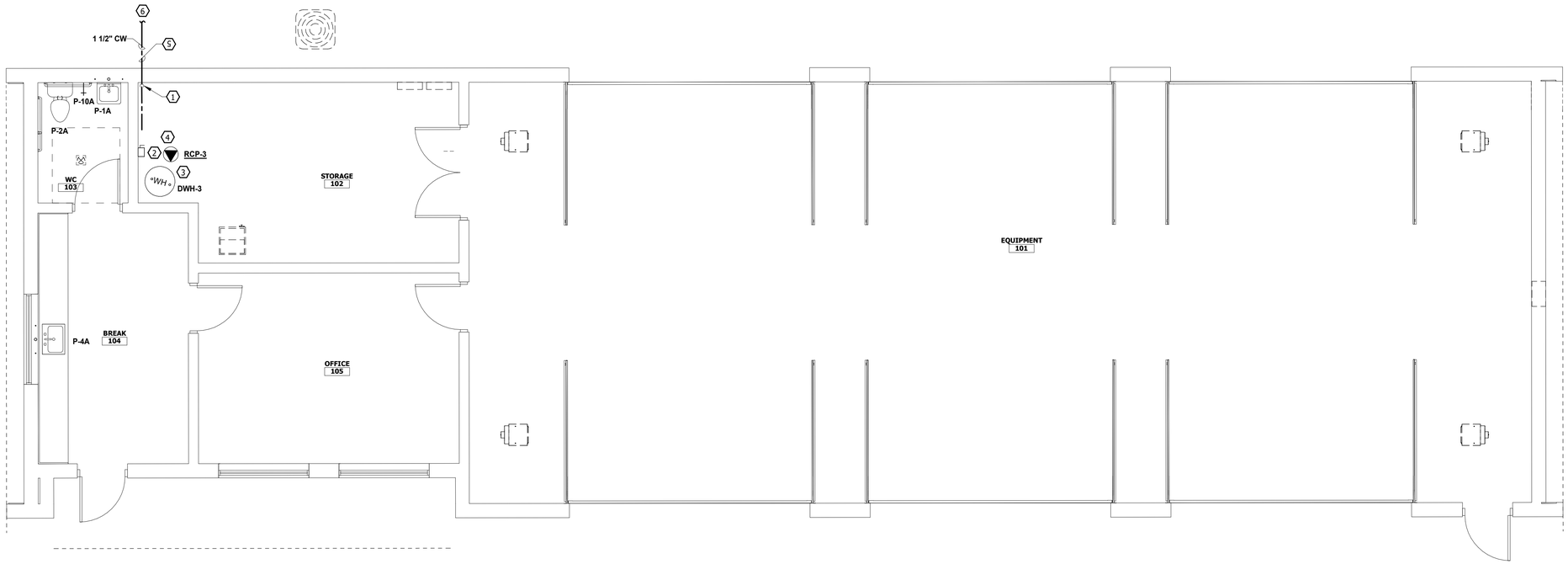
2 HEAVY DUTY, FUSED DISCONNECT SWITCH.

3 WATER HEATER. SEE DETAIL.

4 IN-LINE HOT WATER RETURN PUMP.

5 BELOW GRADE.

6 1-1/2" DOMESTIC WATER SERVICE ENTRY. CONNECT TO DOMESTIC WATER SERVICE BY UTILITY CONTRACTOR AT 10' BUILDING LINE. COORDINATE WITH UTILITY CONTRACTOR.



1 / P131 **MAINTENANCE FLOOR PLAN - WATER**

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

4' 0 4' 8' 12' 16' 20'

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MAINTENANCE FLOOR PLAN - WATER

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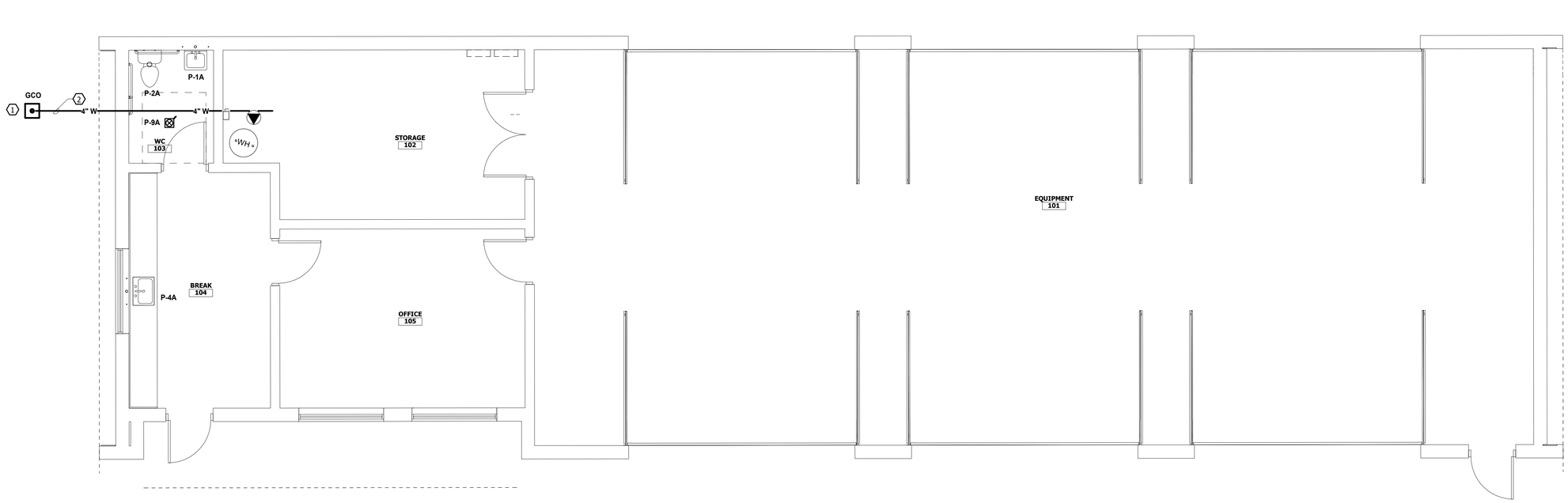
KEY NOTES TO P132

1 CONNECT TO SANITARY SEWER BY UTILITY CONTRACTOR AT BUILDING 10' LINE. COORDINATE WITH UTILITY CONTRACTOR.

2 BELOW GRADE.



1 / P132 **MAINTENANCE FLOOR PLAN - SANITARY**
SCALE: 1/4" = 1'-0"

4' 0 4' 8' 12' 16' 20'

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MAINTENANCE FLOOR PLAN - SANITARY

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PLUMBING-FIXTURE SCHEDULE

TAG	ADA	FIXTURE DESCRIPTION	BASIS OF DESIGN	CW	HW	WASTE	VENT	MOUNTING HEIGHT	REMARKS	IMAGE #1	IMAGE #2
P-1A	Yes	LAVATORY	SINK: KOHLER HUDSON K-2867, WALL MOUNTED, 4" CENTERED FAUCET HOLES, 20" WIDE x 18" FRONT TO BACK. FAUCET: CHICAGO FAUCETS 420-T41E2805ABCP, MANUAL, 4" CENTERS, 4-5/8" SPOUT LENGTH, ASSE 1070 CERTIFIED, 0.5 GPM. DRAIN/TAILPIECE: MCGUIRE 155A, OPEN GRID CHROME PLATED PO PLUG, 1-1/4" x 6" TAILPIECE. P-TRAP: MCGUIRE 8902DF, 1-1/4" x 1-1/2", ADJUSTABLE, CLEANOUT PLUG, 11-1/2" CENTER TO END LENGTH. SUPPLIES: MCGUIRE LFH2165, WHEEL HANDLE SUPPLY KIT, 1/2" IPS x 3/8" OD ANGLE STOP VALVE, 12" FLEXIBLE COPPER RISERS. PIPING COVERS: TRUEBRO LAV GUARD 2 102-EZ, P-TRAP COVER AND TWO ANGLE VALVE COVERS, PAINTABLE WHITE FINISH, REUSABLE FASTENERS.	1/2"	1/2"	2"	2"	34" AFF			
P-1B	No	LAVATORY	SINK: KOHLER HUDSON K-2867, WALL MOUNTED, 4" CENTERED FAUCET HOLES, 20" WIDE x 18" FRONT TO BACK. FAUCET: CHICAGO FAUCETS 420-T41E2805ABCP, MANUAL, 4" CENTERS, 4-5/8" SPOUT LENGTH, ASSE 1070 CERTIFIED, 0.5 GPM. DRAIN/TAILPIECE: MCGUIRE 155A, OPEN GRID CHROME PLATED PO PLUG, 1-1/4" x 6" TAILPIECE.P-TRAP: MCGUIRE 8902DF, 1-1/4" x 1-1/2", ADJUSTABLE, CLEANOUT PLUG, 11-1/2" CENTER TO END LENGTH. SUPPLIES: MCGUIRE LFH2165, WHEEL HANDLE SUPPLY KIT, 1/2" IPS x 3/8" OD ANGLE STOP VALVE, 12" FLEXIBLE COPPER RISERS.	1/2"	1/2"	2"	2"	34" AFF			
P-2A	Yes	WATER CLOSET	BOWL/TANK: KOHLER HIGHLINE K-3493, ELONGATED BOWL, FLOOR MOUNTED, 17-1/8" RIM HEIGHT, 1.6 GPF. SEAT: KOHLER K-4670-SC, ELONGATED, OPEN-FRONT, SELF-SUSTAINING CHECK HINGES. SUPPLY VALVE: MCGUIRE LFHST07, CHROME PLATED, WHEEL HANDLE, 1/2" SWEAT x 3/8" COMPRESSION. SUPPLY HOSE: PROFLOW PFX146471, BRAIDED STAINLESS STEEL, 9" LENGTH, 3/8" COMPRESSION x 7/8" BALLCOCK FITTING.	1/2"	-	4"	2"				
P-2B	No	WATER CLOSET	BOWL/TANK: KOHLER WELLWORTH K-3978, ELONGATED BOWL, FLOOR MOUNTED, 14-1/2" RIM HEIGHT, 1.6 GPF. SEAT: KOHLER K-4670-SC, ELONGATED, OPEN-FRONT, SELF-SUSTAINING CHECK HINGES. SUPPLY VALVE: MCGUIRE LFHST07, CHROME PLATED, WHEEL HANDLE, 1/2" SWEAT x 3/8" COMPRESSION. SUPPLY HOSE: PROFLOW PFX146471, BRAIDED STAINLESS STEEL, 9" LENGTH, 3/8" COMPRESSION x 7/8" BALLCOCK FITTING.	1/2"	-	4"	2"				
P-3A	Yes	WATER CLOSET	BOWL: KOHLER KINGSTON MODEL K-4325, ELONGATED BOWL, WALL MOUNTED, SUITABLE FOR 1.28 OR 1.6 GPF. FLUSH VALVE: SLOAN ROYAL 111 ESS-1.6-TMO-HW, HARDWIRED SENSOR, POLISHED CHROME FINISH, 1.6 GPF. CARRIER: ZURN SIPHON JET CARRIER SYSTEM. SEAT: KOHLER K-4670-SC, ELONGATED, OPEN-FRONT, SELF-SUSTAINING CHECK HINGES.	1-1/4"	-	4"	2"	RIM 17" AFF			
P-3B	No	WATER CLOSET	BOWL: KOHLER KINGSTON MODEL K-4325, ELONGATED BOWL, WALL MOUNTED, SUITABLE FOR 1.28 OR 1.6 GPF. FLUSH VALVE: SLOAN ROYAL 111 ESS-1.6-TMO-HW, HARDWIRED SENSOR, POLISHED CHROME FINISH, 1.6 GPF. CARRIER: ZURN SIPHON JET CARRIER SYSTEM. SEAT: KOHLER K-4670-SC, ELONGATED, OPEN-FRONT, SELF-SUSTAINING CHECK HINGES.	1-1/4"	-	4"	2"	RIM 15" AFF			
P-4A	Yes	SINK SINGLE COMPARTMENT	SINK: ELKAY MODEL LRAD2219-55-3, SINGLE COMPARTMENT COUNTERTOP SINK, 18 GAUGE TYPE 304 STAINLESS STEEL WITH LUSTROUS SATIN FINISH, SOUND DEADENED UNDERSIDE, 22" x 19-1/2" x 5-1/2" DEEP, 3-HOLE PUNCH, DRAIN OFF-CENTERED TO THE REAR. FAUCET: CHICAGO FAUCETS 2304-ABCP, SINGLE LEVER HOT AND COLD WATER MIXING SINK FAUCET WITH SIDE SPRAY, 8" RIGID/SWING GOOSENECK SPOUT, CHROME PLATE FINISH. DRAIN/TAILPIECE: ELKAY LK35 SINK DRAIN, TYPE 304 STAINLESS STEEL BODY, BASKET STRAINER WITH METAL STEM AND RUBBER STOPPER, 1-1/2" CHROME PLATED BRASS TAILPIECE. P-TRAP: McGUIRE MANUFACTURING CO., INC. MODEL 8912DF, 1 1/2" x 1 1/2", HEAVY CAST BRASS BODY P-TRAP WITH CLEANOUT PLUG AND 17 GAUGE SEAMLESS TUBULAR BRASS WALL BEND, DEEP BRASS WALL FLANGE, ALL POLISHED CHROME PLATED. McGUIRE 520A2, HEAVY DUTY END OUTLET CONTINUOUS WASTE WITH HEAVY CHROME PLATED CAST BRASS TEES, 17 GAUGE SEAMLESS BRASS TUBING, CAST BRASS SLIP NUTS AND CLEANOUT END CAPS. SUPPLIES: McGUIRE MANUFACTURING CO., INC. MODEL LFH2165-N5, LEAD-FREE, HEAVY PATTERN, CHROME PLATED BRASS ANGLE STOP WITH BRASS STEM, 1/2" IPS x 3/8" OD COMPRESSION, 5" CAST BRASS NIPPLE, WHEEL HANDLE, FLEXIBLE CHROME PLATED COPPER RISER, CHROME PLATED BRASS WALL FLANGE. PIPING COVERS: McGUIRE MANUFACTURING CO., INC. MODEL PW2000 SEAMLESS INSULATOR, MOLDED CLOSED CELL VINYL, 3/16" THICK, WHITE COVERS FOR TRAP, TAILPIECE, WALL BEND AND TWO (2) SUPPLIES.	1/2"	1/2"	2"	2"				
P-5A	Yes	WATER COOLER / BOTTLE FILLER	ELKAY MODEL EZSTL8WSSK, WALL MOUNTED BI-LEVEL WATER COOLER AND BOTTLE FILLING STATION, REFRIGERATED, NON-FILTERED, STAINLESS STEEL, 115V POWER, 36-3/4" x 19" x 39-1/16".	1/2"	-	2"	2"	AS RECOMMENDED BY MANUFACTURER FOR ADA COMPLIANCE			
P-6A	Yes	URINAL	URINAL: KOHLER DEXTER K-5016-ET, SIPHON JET, TOP SPUD, SUITABLE FOR 0.5 OR 1.0 GPF. FLUSH VALVE: SLOAN ROYAL 186 ESS-0.5-TMO-HW, HARDWIRED SENSOR, POLISHED CHROME FINISH, 0.5 GPF.	1"	-	2"	2"	LIP 17" AFF			
P-6B	No	URINAL	URINAL: KOHLER DEXTER K-5016-ET, SIPHON JET, TOP SPUD, SUITABLE FOR 0.5 OR 1.0 GPF. FLUSH VALVE: SLOAN ROYAL 186 ESS-0.5-TMO-HW, HARDWIRED SENSOR, POLISHED CHROME FINISH, 0.5 GPF.	1"	-	2"	2"	LIP 24" AFF			
P-7A		MOP RECEPTOR	SINK: FIAT MODEL TSB-3001, 32" x 32" x 12" WITH 6" DROP FRONT, STAINLESS STEEL CAPS ON ALL CURBS, 3" INTEGRAL STAINLESS STEEL DRAIN BODY FOR CAULKED CONNNECTION, STAINLESS STEEL STRAINER, POLISHED TERRAZZO OF BLACK AND WHITE CHIPS CAST IN GRAY PORTLAND CEMENT. FAUCET: FIAT MODEL 830AA FAUCET WITH VACUUM BREAKER, INTEGRAL STOPS, WALL BRACE, PAIL HOOK AND 3/4" HOSE THREAD SPOUT. ACCESSORIES: FIAT MODEL 832-AA HOSE AND STAINLESS STEEL BRACKET; FIAT MODEL 889-CC STAINLESS STEEL MOP HANGER; FIAT MSG3232 STAINLESS STEEL WALL GUARDS. SUPPLIES: INSTALL CHECK AND BALL VALVES IN WATER SUPPLY PIPES IN ACCESSIBLE LOCATIONS.	3/4"	3/4"	2"	2"	FAUCET 36" AFF			
P-8A	Yes	LAVATORY	SINK BASIN: KOHLER CAXTON OVAL K-2210, UNDERMOUNTED, 14" x 17", WITH OVERFLOW. FAUCET: CHICAGO FAUCETS 420-T41E2805ABCP, MANUAL, 4" CENTERS, 4-5/8" SPOUT LENGTH, ASSE 1070 CERTIFIED, 0.5 GPM. DRAIN/TAILPIECE: MCGUIRE 155A, OPEN GRID CHROME PLATED PO PLUG, 1-1/4" x 6" TAILPIECE. P-TRAP: MCGUIRE 8902DF, 1-1/4" x 1-1/2", ADJUSTABLE, CLEANOUT PLUG, 11-1/2" CENTER TO END LENGTH. SUPPLIES: MCGUIRE LFH2165, WHEEL HANDLE SUPPLY KIT, 1/2" IPS x 3/8" OD ANGLE STOP VALVE, 12" FLEXIBLE COPPER RISERS. PIPING COVERS: TRUEBRO LAV GUARD 2 102-EZ, P-TRAP COVER AND TWO ANGLE VALVE COVERS, PAINTABLE WHITE FINISH, REUSABLE FASTENERS.	1/2"	1/2"	2"	2"				

PLUMBING-FIXTURE SCHEDULE

TAG	ADA	FIXTURE DESCRIPTION	BASIS OF DESIGN	CW	HW	WASTE	VENT	MOUNTING HEIGHT	REMARKS	IMAGE #1	IMAGE #2
P-9A		FLOOR DRAIN	ZURN MODEL ZN415S(-P), 6" x 6" FLOOR/SHOWER DRAIN, DURA-COATED CAST IRON BODY, MEMBRANE CLAMP WITH ADJUSTABLE COLLAR, "TYPE S" POLISHED NICKEL BRONZE, LIGHT-DUTY STRAINER (, TRAP PRIMER CONNECTION).	-	-	2"/3"/4"	2"				
P-9B		FLOOR DRAIN	ZURN MODEL Z540, 12" DIAMETER FLOOR DRAIN, DURA-COATED CAST IRON BODY, MEMBRANE CLAMP, SEEPAGE PAN AND COMBINATION MEMBRANE FLASHING CLAMP, MEDIUM DUTY STRAINER, CAST IRON SEDIMENT BUCKET.	-	-	3"/4"/6"	2"/3"				
P-10A		HOSE BIBB - RESTROOM	CHICAGO FAUCETS MODEL 387-E27CP, POLISHED CHROME PLATED, SOLID BRASS BODY CONSTRUCTION, 2-1/4" TEE HANDLE, IN-LINE VACUUM BREAKER, 3/4" MALE HOSE THREAD OUTLET.	1/2"	-	-	-	WALL MOUNT. 18" AFF			
P-11A		NON-FREEZE WALL HYDRANT	ZURN MODEL Z1300, "ANTI-SIPHON" AUTOMATIC DRAINING, NON-FREEZE WALL HYDRANT FOR FLUSH INSTALLATION; INTEGRAL BACKFLOW PREVENTER, BRONZE CASING, NICKEL BRONZE BOX AND HINGED COVER WITH OPERATING KEY LOCK AND "WATER" CAST ON COVER.	3/4"	-	-	-	24" AFG			
P-12A		FLOOR SINK	ZURN MODEL Z1926, 16" x 16" x 12" DEEP FLOOR SINK, DURA-COATED CAST IRON BODY,WHITE ACID RESISTING PORCELAIN ENAMEL INTERIOR AND TOP, WHITE A.R.C. ANTI-SPLASH BOTTOM DOME STRAINER, HEAVY DUTY (FULL,3/4,1/2) GRATE, TRAP PRIMER.	-	-	3"	2"				

PLUMBING PUMP SCHEDULE

DESIGNATION	RCP-1	RCP-2	RCP-3	.	.
SERVICE	EVENT CENTER	OCTAGON	MAINTENANCE	.	.
TYPE	INLINE	INLINE	INLINE	.	.
FLOW (GPM)	.	.	.	.	.
HEAD (FT)	.	.	.	.	.
SPEED (RPM)	.	.	.	.	.
MOTOR SIZE (HP)	.	.	.	.	.
VOLTAGE/PHASE	120/1	120/1	120/1	.	.
START/DISCONNECT MEANS	MRT	MRT	MRT	.	.

NOTES:
1. PROVIDE EXTERNAL STARTER/DISCONNECTING MEANS AS SCHEDULED.

MS51

DOMESTIC WATER HEATER SCHEDULE

DESIGNATION	DWH-1	DWH-2	DWH-3	.	.
SERVICE	EVENT CENTER	OCTAGON BUILDING	MAINTENANCE BUILDING	.	.
TYPE	TANK	TANK	TANK	.	.
TEMPERATURE SETTING (F)	120	120	120	.	.
STORAGE CAPACITY (GAL)	60	60	18	.	.
RECOVERY (GPH)	.	.	.	.	.
EFFICIENCY (%)	.	.	.	.	.
CONN. ELEC. No. OF ELEMENTS	.	.	.	.	.
CAPACITY PER ELEMENT (W)	.	.	.	.	.
VOLTAGE/PHASE	.	.	.	.	.
AMPS (A)	.	.	.	.	.
VOLTAGE/PHASE	.	.	.	.	.

NOTES:
1. RECOVERY IS BASED ON 100° TEMPERATURE RISE.
2. PROVIDE EXTERNAL DISCONNECT SWITCH FOR SINGLE POINT OF CONNECTION.

MS52

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REVISIONS

1

PLAN INFORMATION

PROJECT NO.	202011039
FILENAME	TORLRPMP_CENTRAL_2020
CHECKED BY	KRA
DRAWN BY	BMM
SCALE	SEE VIEW
DATE	05. 28. 2021

SHEET

SCHEDULES

P401

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SW Project No:0651-01-00-20

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

5/28/2021 1:43:17 PM

HVAC ABBREVIATIONS

Ø	ROUND; DIAMETER; PHASE
#	POUNDS; NUMBER
A	COMPRESSED AIR
ACFM	ACTUAL CUBIC FEET PER MINUTE
ACH	AIR CHANGES PER HOUR
AD	ACCESS DOOR
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
ARCH	ARCHITECTURAL; ARCHITECT
AS	AIR SEPERATOR
AUTO	AUTOMATIC
AV	ACID VENT
AW	ACID WASTE
BAS	BUILDING AUTOMATION SYSTEM
BBD	BOILER BLOWDOWN
BFF	BELOW FINISHED FLOOR
BFW	BOILER FEED WATER
BHP	BRAKE HORSEPOWER
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BOT	BOTTOM
BP	BACKFLOW PREVENTER
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
C	CELSIUS; COMMON PORT
CD	CONDENSATE DRAIN
CDWP	CONDENSER WATER PUMP
CDWR	CONDENSER WATER RETURN
CDWS	CONDENSER WATER SUPPLY
CF	CHEMICAL FEED
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CHWP	CHILLED WATER PUMP
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CI	CAST IRON
CLG	CEILING
CO	CLEAN OUT; CARBON MONOXIDE
CO2	CARBON DIOXIDE
CONC	CONCRETE
COP	COEFFICIENT OF PERFORMANCE
CPVC	CHLORINATED POLYVINYL CHLORIDE
CT	COOLING TOWER
CTR	CENTER
CU	COPPER; CONDENSING UNIT
CUFT	CUBIC FOOT; CUBIC FEET
CUH	CABINET UNIT HEATER
CUYD	CUBIC YARD
CW	COLD WATER
DB	DRY BULB
DD	DUCT MOUNTED SMOKE DETECTOR
DDC	DIRECT DIGITAL CONTROLS
DI	DUCTILE IRON
DIA	DIAMETER
DN	DOWN
DP	DIFFERENTIAL PRESSURE
DTWR	DUAL TEMPERATURE WATER RETURN
DTWS	DUAL TEMPERATURE WATER SUPPLY
DWG	DRAWING
DX	DIRECT EXPANSION
EA	EACH
EAT	ENTERING AIR TEMPERATURE
EFF	EFFICIENCY
EL	ELEVATION
ELEC	ELECTRICAL
EQUIP	EQUIPMENT
ESP	EXTERNAL STATIC PRESSURE
ESS	EMERGENCY STOP SWITCH
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST; EXHAUST AIR; EXHAUST FAN
EXIST	EXISTING
EXP	EXPANSION
F	FAHRENHEIT
FCU	FAN COIL UNIT
FD	FIRE DAMPER
FFE	FINISHED FLOOR ELEVATION
FL	FLOOR
FLEX	FLEXIBLE
FOB	FLAT ON BOTTOM
FOT	FLAT ON TOP
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FOV	FUEL OIL VENT
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FSD	FIRE/SMOKE DAMPER
FT	FEET; FOOT
G	NATURAL GAS
GA	GAUGE
GAL	GALLON
GC	GENERAL CONTRACTOR
GEX	GREASE EXHAUST AIR
GPH	GALLON PER HOUR
GPM	GALLON PER MINUTE
HD	HUB DRAIN; HEAT DETECTOR
HEX	HAZARDOUS EXHAUST
HOA	HANDS-OFF-AUTOMATIC
HORIZ	HORIZONTAL
HP	HIGH PRESSURE
HPR	HIGH PRESSURE CONDENSATE RETURN
HPS	HIGH PRESSURE STEAM
HSTAT	HUMIDISTAT
HT	HEIGHT

HVAC ABBREVIATIONS

HTG	HEATING
HVAC	HEATING, VENTILATION AND AIR CONDITIONING
HWR	HEATING WATER RETURN
HWS	HEATING WATER SUPPLY
HX	HEAT EXCHANGER
ID	INDIRECT DRAIN; INSIDE DIAMETER
IN	INCH
INV	INVERT
ISP	INTERNAL STATIC PRESSURE
KW	KILOWATT
KWH	KILOWATT HOUR
LAT	LEAVING AIR TEMPERATURE
LB/HR	POUNDS PER HOUR
LP	LOW PRESSURE
LPG	LIQUID PETROLEUM GAS
LPR	LOW PRESSURE CONDENSATE RETURN
LPS	LOW PRESSURE CONDENSATE SUPPLY
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	1000 BRITISH THERMAL UNITS PER HOUR
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MP	MEDIUM PRESSURE
MRT	MOTOR RATED TOGGLE SWITCH
MS	MOTOR STARTER
MS/D	COMBINATION MOTOR STARTER AND DISCONNECT
MTD	MOUNTED
MUA	MAKE UP AIR
MVD	MANUAL VOLUME DAMPER
N	NITROGEN
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NITROUS OXIDE; NUMBER
N.O.	NORMALLY OPEN
NPSH	NET POSITIVE SUCTION HEAD
NTS	NOT TO SCALE
O	OXYGEN
OA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
OC	ON CENTER
OD	OUTSIDE DIAMTER
P	PUMP
PC	PLUMBING CONTRACTOR
PCHWP	PRIMARY CHILLED WATER PUMP
PD	PRESSURE DROP
PHWP	PRIMARY HOT WATER PUMP
PI	PRESSURE INDEPENDENT
PICV	PRESSURE INDEPENDENT CONTROL VALVE
PR	PUMPED CONDENSATE RETURN
PNL	PANEL
PPH	POUNDS PER HOUR
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
PSIG	POUNDS PER SQUARE INCH GAUGE
PT	POINT
PCV	POLYVINYL CHLORIDE
QTY	QUANTITY
RA	RETURN AIR
RD	ROUND
RECIRC	RECIRCULATING
REINF	REINFORCING
REL	RELIEF; RELIEF AIR
REV	REVISION
RF	RETURN FAN
RH	RELATIVE HUMIDITY
RL	REFRIGERANT LIQUID
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
RPZ	REDUCED PRESSURE ZONE
RS	REFRIGERANT SUCTION
SA	SUPPLY AIR
SCFM	STANDARD CUBIC FEET PER MINUTE
SCHWP	SECONDARY CHILLED WATER PUMP
SD	SMOKE DAMPER
SECT	SECTION
SF	SUPPLY FAN; SQUARE FEET
SHWP	SECONDARY HOT WATER PUMP
SP	STATIC PRESSURE
SPEC	SPECIFICATION
SPL	STATIC PRESSURE LOSS
SS	STAINLESS STEEL
STM	STEAM
TA	TRANSFER AIR
TAB	TEST AND BALANCE
TOD	TOP OF DUCT
TOP	TOP OF PIPE
TOS	TOP OF STEEL
TSP	TOTAL STATIC PRESSURE
TSTAT	THERMOSTAT
TU	TERMINAL UNIT
TYP	TYPICAL
UH	UNIT HEATER
UL	UNDERWRITERS LABORITORIES INC.
V	VENT
VA	VENTILATION AIR
VAC	VACCUUM (SUCTION)
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
W/	WITH
WB	WET BULB
WG	WATER GAUGE
W/O	WITHOUT
XT	EXPANSION TANK

PIPING SYMBOLS

#" SYSTEM

#" SYSTEM

PIPE SIZE AND SYSTEM IDENTIFICATION (SEE ABBREVIATIONS FOR SYSTEM TYPES)

VALVE (REFER TO SPECIFICATIONS)

BALANCING VALVE (REFER TO SPECIFICATIONS)

CALIBRATED BALANCING VALVE

BUTTERFLY VALVE

GATE VALVE

GLOBE VALVE

CHECK VALVE

PLUG VALVE

BALL VALVE

2-WAY CONTROL VALVE

3-WAY CONTROL VALVE

PRESSURE REDUCING VALVE

PRESSURE RELIEF VALVE

GAS COCK

Y-TYPE STRAINER

BASKET STRAINER

PIPE TURNING UP

PIPE TURNING DOWN

PIPE CONNECTION AT BOTTOM OF MAIN

PIPE CAP

PIPE UNION

CONCENTRIC REDUCER

ECCENTRIC REDUCER

PIPE ALIGNMENT GUIDE

PIPE ANCHOR

FLEXIBLE PIPE CONNECTION

PRESSURE GAUGE

THERMOMETER

STEAM TRAP

DIRECTION OF FLOW IN PIPE

SLOPE PIPE IN DIRECTION OF ARROW

PUMP

PETES PLUG (P & T PORT)

BACKFLOW PREVENTER

EXISTING PIPING

NEW PIPING

DUCTWORK SYMBOLS

SUPPLY, VENTILATION, OUTSIDE AIR DUCT SECTION

RETURN AIR DUCT SECTION

EXHAUST OR RELIEF AIR DUCT SECTION

24x24 — RECTANGULAR DUCT DIMENSIONS (IN PLAN WIDTH x HEIGHT INCHES)

24/12 — FLAT OVAL DUCT DIMENSIONS

24Ø — ROUND DUCT DIMENSIONS

NEW DUCT

#/1'-0" — SLOPE DUCT IN DIRECTION OF ARROW

BELL MOUTH TAP FOR MEDIUM PRESSURE

CONICAL TAP WITH BALANCING DAMPER WITH LOCKING QUADRANT OPERATOR FOR LOW PRESSURE TAKEOFFS

45° TAP WITH BALANCING DAMPER WITH LOCKING QUADRANT OPERATOR

SUPPLY DIFFUSER

RETURN GRILLE

EXHAUST GRILLE

MITERED ELBOW

RADIUS ELBOW

FLEXIBLE DUCT

VOLUME DAMPER WITH MANUAL OPERATOR AND LOCKING QUADRANT

D — DUCT MOUNTED MOTORIZED DAMPER

H — DUCT MOUNTED STEAM HUMIDIFIER

DD — DUCT MOUNTED SMOKE DETECTOR

FD / FD FD — FIRE DAMPER, DAMPER TO MATCH RATING

SD / SD SD — SMOKE DAMPER, DAMPER TO MATCH RATING

FSD / FSD FSD — COMBINATION FIRE/SMOKE DAMPER, DAMPER TO MATCH RATING

R — CEILING RADIATION DAMPER, DAMPER TO MATCH RATING

A | 100 — AIR DISTRIBUTION SYMBOL, LETTER(S) DENOTES TYPE, NUMBER INDICATES CFM

T — THERMOSTAT OR ROOM SENSOR

H — HUMIDISTAT OR ROOM SENSOR

DDC — DIRECT DIGITAL CONTROLS CABINET

T — EXISTING THERMOSTAT OR ROOM SENSOR

ELECTRICAL SYMBOLS

VFD — VARIABLE FREQUENCY DRIVE

MOTOR STARTER

COMBINATION MOTOR STARTER/DISCONNECT

FUSED DISCONNECT

NF — NON-FUSED DISCONNECT

DISCONNECT, EXISTING OR BY OTHERS

PNL — POWER PANEL, EXISTING OR BY OTHERS

S — TOGGLE SWITCH

S_M — MOTOR RATED TOGGLE SWITCH

GENERAL SYMBOLS

PLAN OR DETAIL NUMBER / SHEET NUMBER

ELEVATION LETTER / SHOWN ON SHEET NUMBER

SECTION NUMBER / SHOWN ON SHEET NUMBER

DIMENSION LINE

DETAIL NUMBER / WITH SHEET NO.

A — COLUMN NUMBER OR LETTER

1 — DRAWING REVISION NUMBER

KEYED NOTE NUMBER

CONNECT TO EXISTING

REMOVE TO THIS POINT

NORTH ARROW

HVAC DRAWING LIST

NO.	TITLE
H001	STANDARDS, SYMBOLS & ABBREVIATIONS
H111	EVENT CENTER FLOOR PLAN - HVAC
H121	OCTAGON FIRST FLOOR PLAN - HVAC
H122	OCTAGON SECOND FLOOR PLAN - HVAC
H131	MAINTENANCE FLOOR PLAN - HVAC
H501	SCHEDULES

HVAC GENERAL NOTES

1. COORDINATE WORK WITH OTHER TRADES PRIOR TO PURCHASE AND INSTALLATION OF ANY PIPING, DUCTWORK OR EQUIPMENT. NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES PRIOR TO INSTALLATION.
2. REFER TO THE ARCHITECTURAL PLANS FOR DIMENSIONS. DO NOT SCALE THESE DRAWINGS.
3. ALL DUCT AND PIPING LAYOUTS AND LOCATIONS SHOWN ARE DIAGRAMMATIC AND DO NOT INDICATE ALL FITTINGS REQUIRED TO COMPLETE WORK. COORDINATE THE DUCT AND PIPING LAYOUT WITH ALL CONTRACTORS PRIOR TO INSTALLATION, INCLUDING CONDUITS AND CABLE TRAYS. PROVIDE ALL DUCT AND/OR PIPING OFFSETS REQUIRED FOR THE COMPLETE INSTALLATION OF THE SYSTEM WHETHER OR NOT THE OFFSETS ARE INDICATED ON THE PLANS. INSTALL DUCTWORK AND PIPING HIGH ENOUGH TO AVOID LIGHTS, CONDUIT AND MISCELLANEOUS PIPING, BUT LOW ENOUGH TO ALLOW FOR EASY ACCESS TO SYSTEM BALANCING DEVICES. DO NOT BLOCK ACCESS TO DEVICES.
4. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS AND ARCHITECTURAL DETAILS FOR EXACT LOCATION OF ALL CEILING AND SIDEWALL AIR DISTRIBUTION AND DEVICES.
5. LOCATE UNITS SUCH THAT ACCESS PANELS MAY BE FULLY OPENED (VIA TILE CEILING) FOR SERVICING UNIT. COORDINATE LOCATION WITH LIGHTING FIXTURES OR ANY OTHER EQUIPMENT.
6. ROUND DUCT RUN-OUTS TO DIFFUSERS SHALL BE SAME SIZE AS INLET DIAMETER SCHEDULED, UNLESS NOTED OTHERWISE.
7. ALL DUCT DIMENSIONS ARE INSIDE CLEAR. SEE DETAILS AND SPECIFICATIONS FOR INSULATION REQUIREMENTS.
8. PROVIDE BALANCING DAMPERS WHERE INDICATED ON THE PLANS AND WHERE REQUIRED FOR SYSTEM BALANCING.
9. INSTALL ALL EQUIPMENT WITH THE MANUFACTURER'S RECOMMENDATION AND CODE REQUIRED CLEARANCES. INSURE ALL ITEMS FURNISHED WILL FIT IN THE SPACE AVAILABLE. MAKE NECESSARY FIELD MEASUREMENTS TO ASCERTAIN SPACE REQUIREMENTS AND FURNISH AND INSTALL SUCH SIZES AND SHAPES OF EQUIPMENT THAT ARE THE TRUE INTENT AND MEANING OF THE PLANS AND SPECIFICATIONS. NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES PRIOR TO PURCHASE AND INSTALLATION.
10. COORDINATE EXACT SIZE AND LOCATION OF ALL PENETRATIONS THROUGH THE ROOF WITH ALL TRADES.
11. COORDINATE LOCATIONS AND ELEVATIONS OF ALL EXPOSED MECHANICAL ITEMS WITH ARCHITECTURAL PLANS, ELEVATIONS, AND DETAILS. THESE ITEMS INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING: SENSORS, WALL DEVICES, SIDEWALL GRILLES, CONTROL PANELS, AND ALARMS.
12. FURNISH 24"x24" ACCESS DOORS (UNLESS OTHERWISE INDICATED) AT ALL MAINTENANCE ITEMS THAT ARE CONCEALED; SUCH AS EQUIPMENT, VALVES, DAMPERS, SENSORS, ETC. COORDINATE EXACT LOCATIONS WITH ARCHITECT/ENGINEER PRIOR TO INSTALLATION.

APPENDIX B
2018 BUILDING CODE SUMMARY
FOR ALL COMMERCIAL PROJECTS

MECHANICAL DESIGN

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT
Thermal Zone: 2013 ASHRAE FUNDAMENTALS, Raleigh, NC, Climate Zone 4A
winter dry bulb: 93°F
summer dry bulb: 20°F

Interior design conditions
winter dry bulb: 70°F
summer dry bulb: 75°F
relative humidity: 50%

Building heating load: -

Building cooling load: -

Mechanical Spacing Conditioning System
Unitary
description of unit: -
heating efficiency: -
cooling efficiency: -
size category of unit: -
Boiler
Size category. If oversized, state reason: -
Chiller
Size category. If oversized, state reason: -

List equipment efficiencies: -

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STANDARDS, SYMBOLS & ABBREVIATIONS

H001

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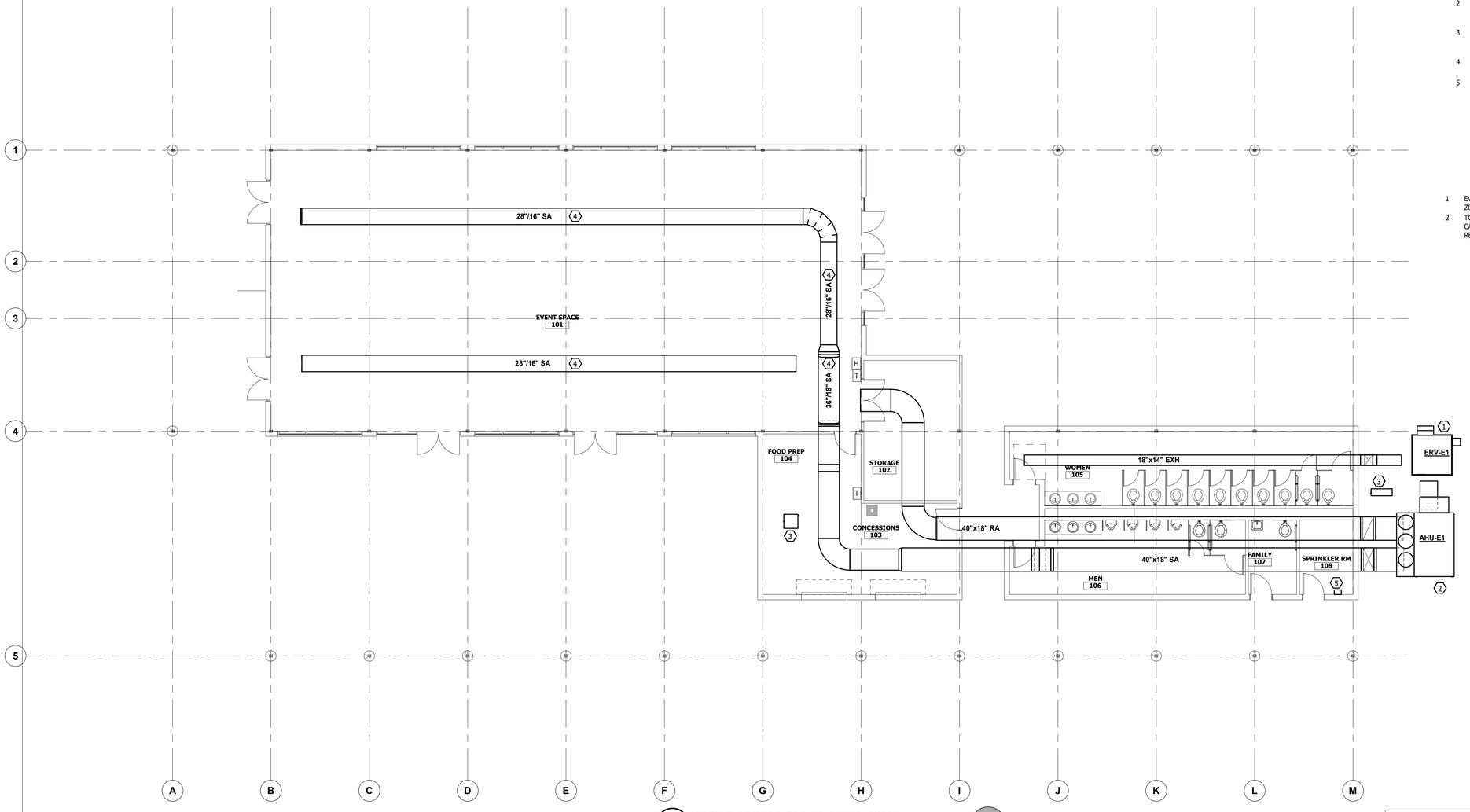

1 H111 **EVENT CENTER FLOOR PLAN - HVAC**

SCALE: 1/8" = 1'-0"

4' 0 4' 8' 12' 16' 20'

KEY NOTES TO H111

1 PACKAGED ENERGY RECOVERY UNIT. MOUNT ON CONCRETE PAD.

2 PACKAGED DX SINGLE ZONE VAV UNIT. MOUNT ON CONCRETE PAD.

3 DUCTLESS MINI SPLIT UNIT TO SERVE CONCESSIONS. MOUNT OUTDOOR UNIT ON CONCRETE PAD.

4 EXPOSED DOUBLEWALL SPIRAL DUCTWORK IN EVENT SPACE.

5 ELECTRIC WALL HEATER.

GENERAL NOTES TO H111

1 EVENT SPACE SERVED BY AHU-E1. CONTROL METHOD: SINGLE ZONE VAV WITH TEMP AND HUMIDITY CONTROL.

2 TOILETS TO BE HEATED AND COOLED. TOILET EXHAUST TO BE CAPTURED AND USED TO PRETREAT OUTSIDE AIR VIA ENERGY RECOVERY UNIT.

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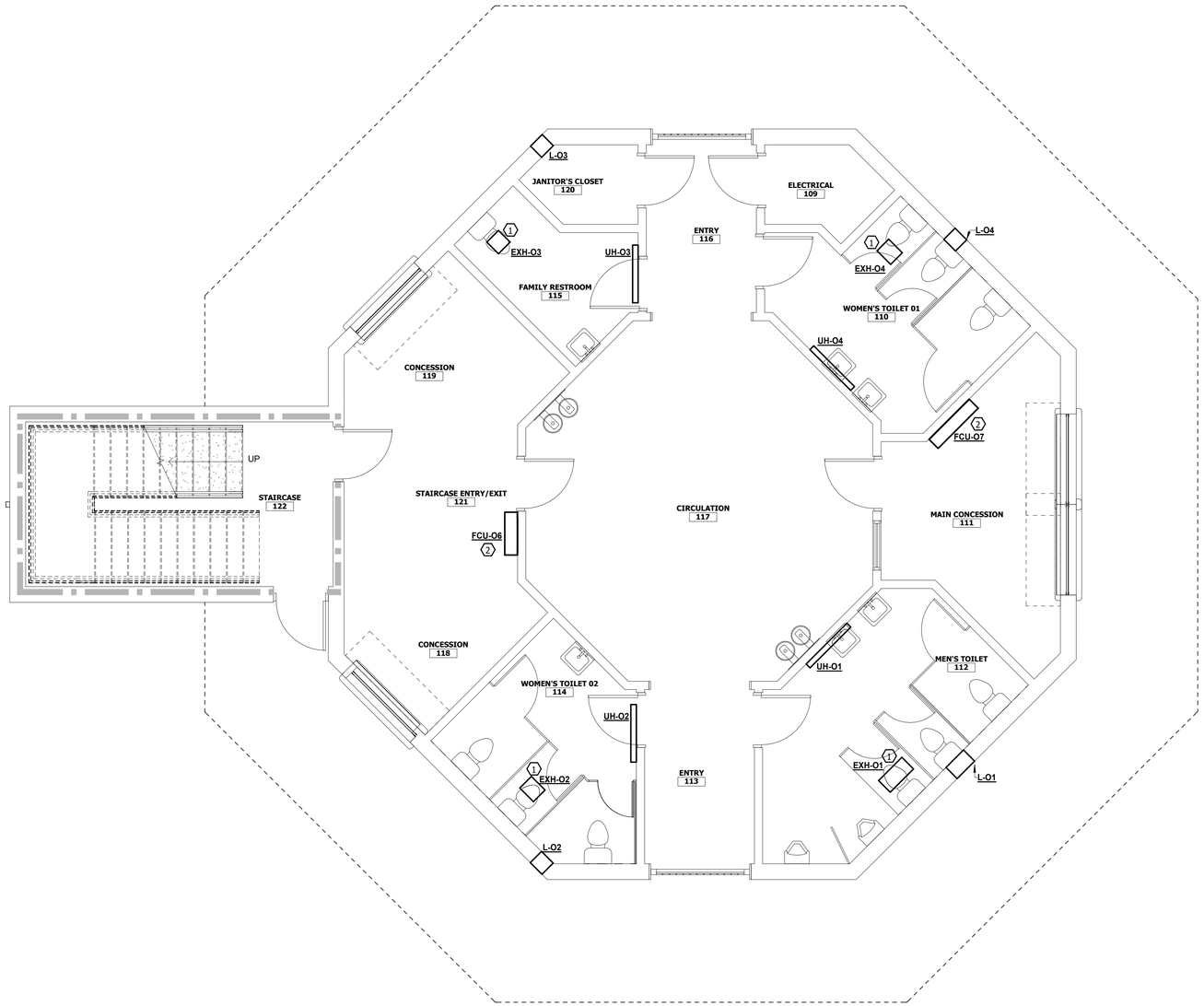

1 H121 **OCTAGON FIRST FLOOR PLAN - HVAC**

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

4' 0 4' 8' 12' 16' 20'

KEY NOTES TO H121

1 ROUTE EXHAUST DUCTWORK FROM CEILING MOUNTED EXHAUST FAN TO EXHAUST AIR LOUVER ON EXTERIOR WALL. EXHAUST FAN TO SWITCH ON WITH LIGHTS.

2 ROUTE REFRIGERANT LINE FROM FCU TO BRANCH CIRCUIT CONTROLLER ON LEVEL 2. ROUTE CONDENSATE DRAIN TO EXTERIOR AND DISCHARGE ON GRADE.

GENERAL NOTES TO H121

1 TOILETS TO BE HEATED AND VENTILATED.
2 CONCESSION AREAS TO BE HEATED AND COOLED.

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OCTAGON FIRST FLOOR PLAN - HVAC

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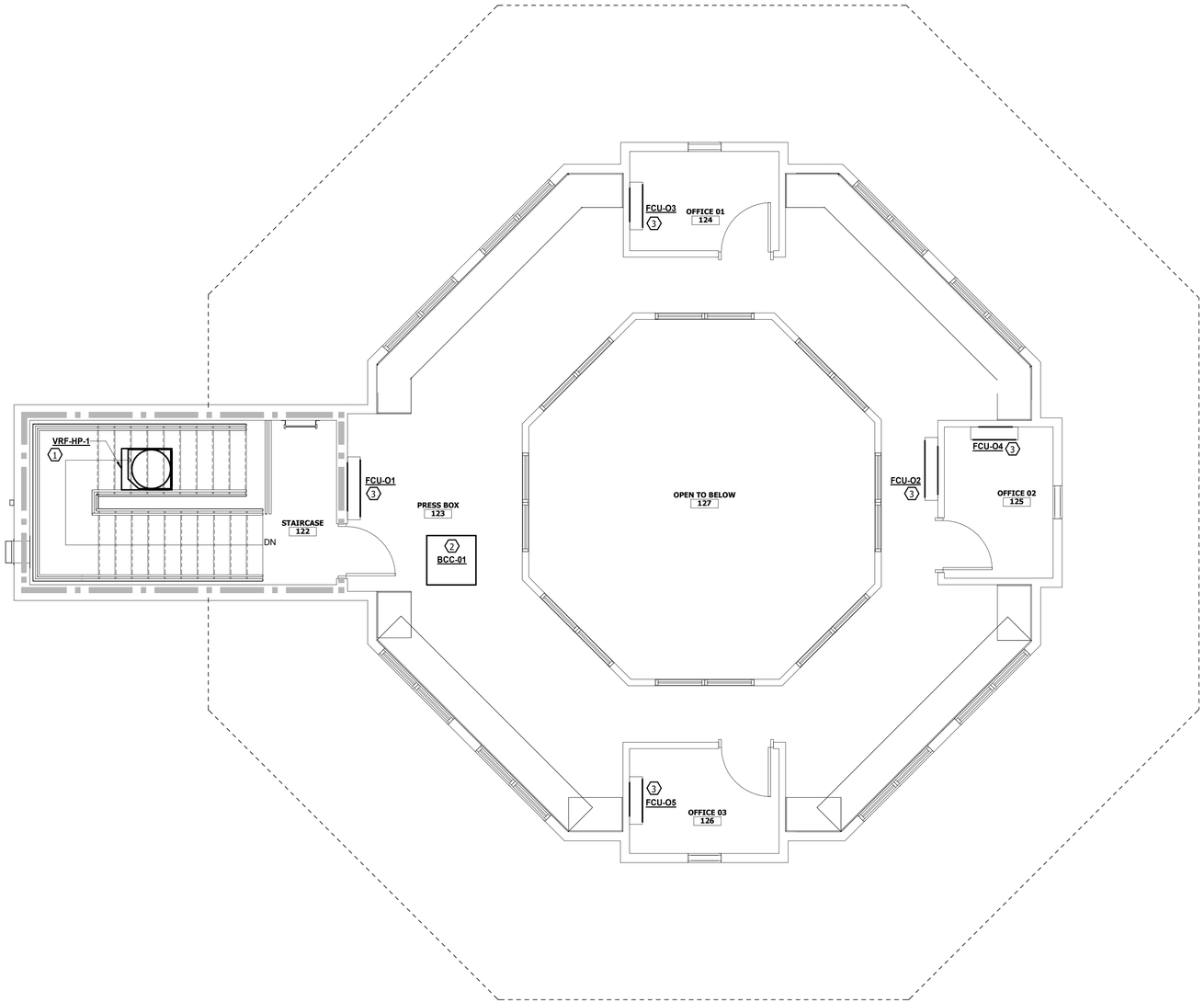

1 / H122 **OCTAGON SECOND FLOOR PLAN - HVAC**

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

4' 0 4' 8' 12' 16' 20'

KEY NOTES TO H122

1 VRF OUTDOOR UNIT ON STAIRCASE ROOF. ROUTE REFRIGERANT PIPING TO BCC-01. PIPING CANNOT ROUTE THROUGH STAIR.

2 ROUTE REFRIGERANT DISTRIBUTION PIPING FROM BRANCH CIRCUIT CONTROLLER TO FCUs ON LEVEL 1 AND LEVEL 2.

3 HIGH WALL FAN COIL UNIT. ROUTE CONDENSATE DRAIN DOWN TO LEVEL 1. GROUP WITH NEARBY CONDENSATE DRAIN PIPING, ROUTE TO EXTERIOR AND DRAIN ON GRADE.

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OCTAGON SECOND FLOOR PLAN - HVAC

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KEY NOTES TO H131

1 ROUTE EXHAUST DUCTWORK FROM CEILING MOUNTED EXHAUST FAN TO ALUMINUM WALLCAP ON EXTERIOR WALL. EXHAUST FAN TO SWITCH ON WITH LIGHTS.

2 ROUTE REFRIGERANT PIPING FROM AHU TO HP. ROUTE CONDENSATE TO EXTERIOR AND DRAIN ON GRADE.

3 CONNECT RETURN DUCT TO CEILING MOUNTED RETURN GRILLE.

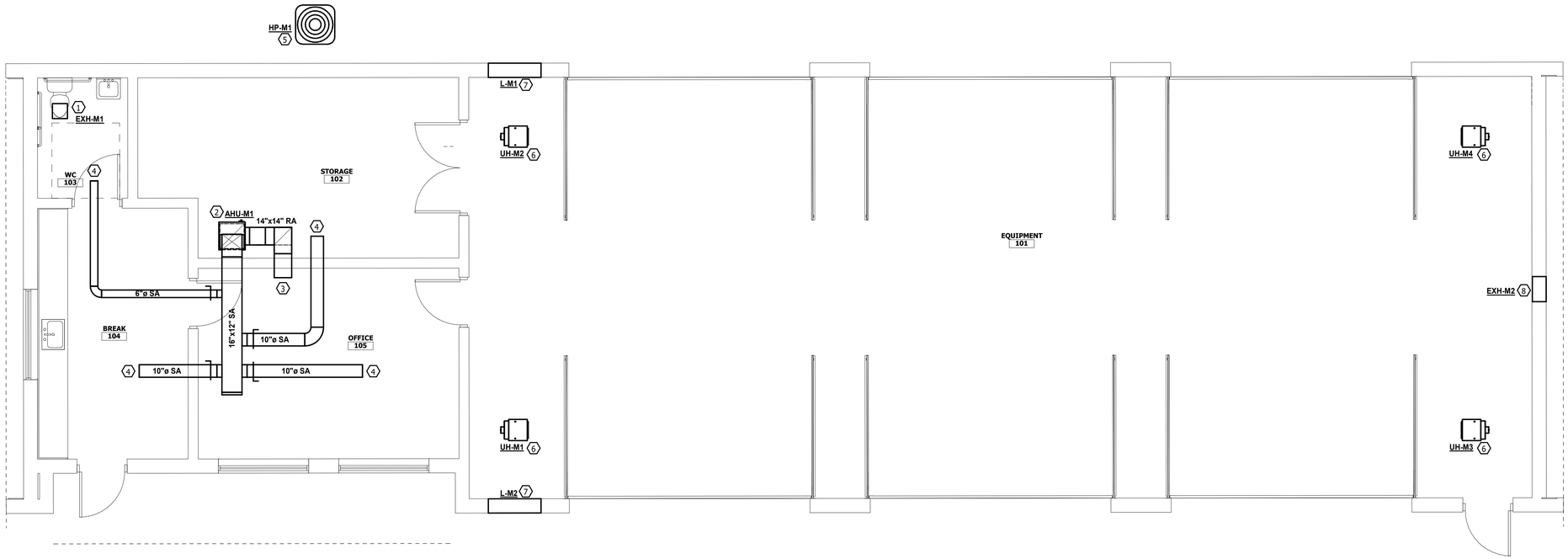
4 CONNECT SUPPLY DUCT TO CEILING MOUNTED SUPPLY GRILLE.

5 MOUNT HEAT PUMP ON CONCRETE PAD. PROVIDE CONCRETE BOLLARDS AROUND UNIT.

6 ELECTRIC UNIT HEATER HUNG FROM CEILING.

7 LOUVER WITH MOTORIZED DAMPER FOR VENTILATION AIR.

8 SIDEWALL PROPELLER EXHAUST FAN FOR VENTILATION.



1 / H131 **MAINTENANCE FLOOR PLAN - HVAC**

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

4' 0 4' 8' 12' 16' 20'

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MAINTENANCE FLOOR PLAN - HVAC

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PACKAGED AIR-COOLED UNIT SCHEDULE

			SUPPLY FAN				COOLING									HEATING				ELECTRIC		
														AMBIENT				ELEC				
DESIGNATION	SERVICE	TYPE	TOTAL SA AIRFLOW (CFM)	OA AIRFLOW (CFM)	ESP (IN)	MOTOR SIZE (HP)	TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	EAT (FDB)	EAT (FWB)	LAT (FDB)	LAT (FWB)	EFFICIENCY (EER/SEER)	TEMPERATURE (F)	No. OF COMPRESSORS	EAT (FDB)	LAT (FDB)	CAPACITY (kW)	VOLTAGE/PHASE	MCA	MOCP	VOLTAGE/PHASE
AHU-E1	EVENT CENTER	PACKAGED DX	8500	2400	1.50	10	313.8	228.9	77.3	64.7	52.7	52.3		95	2	63.2	85.0	57.4	208/3	191.8	225	208/3

SPLIT SYSTEM AIR HANDLING UNIT SCHEDULE

						ELEC		
DESIGNATION	SERVICE	SA AIRFLOW (CFM)	SUPPLY FAN ESP (IN)	SUPPLY FAN MOTOR SIZE (HP)	AUX. ELEC CAPACITY (kW)	MCA	MOCP	VOLTAGE/PHASE
AHU-M1	MAINTENANCE	1000	0.35	0.5	7.2	28	30	208/3

SPLIT SYSTEM OUTDOOR UNIT SCHEDULE

	COOLING			HEATING			ELEC		
DESIGNATION	TOTAL CAPACITY (MBH)	EFFICIENCY (SEER)	AMBIENT TEMPERATURE (F)	TOTAL CAPACITY (MBH)	EFFICIENCY (HPSF/COP)	AMBIENT TEMPERATURE (F)	MCA	MOCP	VOLTAGE/PHASE
HP-M1	30	17	95	30	9.0	16	24	35	208/1

NOTES:
1. SIZE REFRIGERANT PIPING PER MANUFACTURER'S RECOMMENDATIONS.
2. PROVIDE VARIABLE SPEED (ECM) MOTOR.
3. PROVIDE DRAIN PAN WITH FLOAT SWITCH TO SHUT DOWN UNIT IN AN OVERFLOW CONDITION.
4. PROVIDE LOW AMBIENT CONTROL KIT.
5. PROVIDE MERV 8 FILTER.
6. PROVIDE AUX. ELEC HEATER WITH 2 STAGES OF HEAT.
7. PROVIDE EXTERNAL DISCONNECT SWITCH FOR INDOOR AND OUTDOOR UNIT.
8. UNIT MUST BE CAPABLE OF MIN. 100 FT. REFRIGERANT LINE LENGTH WITH 50 FT. VERTICAL LENGTH.
9. BASED ON 75°FDB/63°FWB ENTERING AIR TEMPERATURE AND 55°FDB/54°FWB LEAVING AIR TEMPERATURE.
10. PROVIDE NEMA 3R ENCLOSURE FOR OUTDOOR UNIT DISCONNECT.
11. PROVIDE MIN. 2-STAGE HEAT PUMP.
12. BASIS OF DESIGN: TRANE. ACCEPTABLE MANUFACTURERS: YORK, CARRIER.

PACKAGED ERV SCHEDULE

		SUPPLY FAN				EXHAUST FAN						
MARK	TYPE	OUTSIDE AIRFLOW (CFM)	ESP (IN)	MOTOR BHP	MOTOR SIZE (HP)	EXHAUST AIRFLOW (CFM)	ESP (IN)	MOTOR BHP	MOTOR SIZE (HP)	MCA	MOCP	VOLTAGE/PHASE
ERV-E1	DX WITH ENTHALPY WHEEL	2400	0.5	1.24	1 1/2	1500	1	0.66	3/4	13	15	208/3

ENERGY RECOVERY WHEEL

SUMMER CONDITIONS			WINTER CONDITIONS		
VENTILATION SUPPLY		OUTSIDE	VENTILATION SUPPLY		OUTSIDE
AIRFLOW: 2,400 CFM		AIRFLOW: 2,400 CFM	AIRFLOW: 2,400 CFM		AIRFLOW: 2,400 CFM
DB: 83.0 F		DB: 95.0 F	DB: 45.7 F		DB: 16.0 F
WB: 69.8 F	ERV	WB: 78.0 F	WB: 38.2 F	ERV	WB: 12.0 F
RETURN		EXHAUST	RETURN		EXHAUST
AIRFLOW: 1,500 CFM		AIRFLOW: 1,500 CFM	AIRFLOW: 1,500 CFM		AIRFLOW: 1,500 CFM
DB: 75.0 F		DB: 93.5 F	DB: 70.0 F		DB: 17.7 F
WB: 63.0 F		WB: 76.5 F	WB: 54.3 F		WB: 16.2 F

UNIT HEATER SCHEDULE

			ELEC		FAN	
DESIGNATION	SERVICE	TYPE	CAPACITY (kW)	VOLTAGE/PHASE	FAN AIRFLOW (CFM)	FAN MOTOR SIZE (HP)
UH-M1	MAINTENANCE	HORIZONTAL	10.00	208/3	830	1/15
UH-M2	MAINTENANCE	HORIZONTAL	10.00	208/3	830	1/15
UH-M3	MAINTENANCE	HORIZONTAL	10.00	208/3	830	1/15
UH-M4	MAINTENANCE	HORIZONTAL	10.00	208/3	830	1/15
UH-O1	OCTAGON	COVE HEATER	0.45	120/1	0	-
UH-O2	OCTAGON	COVE HEATER	0.45	120/1	0	-
UH-O3	OCTAGON	COVE HEATER	0.45	120/1	0	-
UH-O4	OCTAGON	COVE HEATER	0.45	120/1	0	-

NOTES:
1. PROVIDE INTEGRAL THERMOSTAT (SET AT 60°F (ADJ.)). PROVIDE INTEGRAL DISCONNECT.
2. BASIS OF DESIGN - WALL MOUNT: MARKEL 3420 SERIES. ACCEPTABLE MANUFACTURERS: INDEECO, MARLEY.
3. BASIS OF DESIGN - COVE HEATER: MARKEL CVX SERIES. ACCEPTABLE MANUFACTURERS: INDEECO, MARLEY.

VRF INDOOR UNIT SCHEDULE

				SA AIRFLOW	SUPPLY FAN ESP	COOLING	HEATING	ELEC		
DESIGNATION	SERVICE	OUTDOOR UNIT	MOUNTING	(CFM)	(IN)	CAPACITY (MBH)	CAPACITY (MBH)	MCA	MOCP	VOLTAGE/PHASE
FCU-O1	OCTAGON	VRF-HP-1	WALL MOUNTED	0	0.00	18	20	0.50	15	208/1
FCU-O2	OCTAGON	VRF-HP-1	WALL MOUNTED	0	0.00	18	20	0.50	15	208/1
FCU-O3	OCTAGON	VRF-HP-1	WALL MOUNTED	0	0.00	7.5	8.5	0.40	15	208/1
FCU-O4	OCTAGON	VRF-HP-1	WALL MOUNTED	0	0.00	7.5	8.5	0.40	15	208/1
FCU-O5	OCTAGON	VRF-HP-1	WALL MOUNTED	0	0.00	7.5	8.5	0.40	15	208/1
FCU-O6	OCTAGON	VRF-HP-1	WALL MOUNTED	0	0.00	9.5	10.5	0.40	15	208/1
FCU-O7	OCTAGON	VRF-HP-1	WALL MOUNTED	0	0.00	18	20	0.50	15	208/1

VRF OUTDOOR UNIT SCHEDULE

	COOLING			HEATING			ELEC		
DESIGNATION	TOTAL CAPACITY (MBH)	EFFICIENCY (EER/IEER)	AMBIENT TEMPERATURE (F)	TOTAL CAPACITY (MBH)	EFFICIENCY (HPSF/COP)	AMBIENT TEMPERATURE (F)	MCA	MOCP	VOLTAGE/PHASE
VRF-HP-1	72	15 / 26.5	95	77	- / 4.2	47	27.6	35	208/3

NOTES:
1. BASIS OF DESIGN IS DAIKIN HEAT PUMP. ACCEPTABLE MANUFACTURERS: MITSUBISHI, LG.

BRANCH CIRCUIT CONTROLLER SCHEDULE

		ELEC		
DESIGNATION	No. of PORTS	MCA	MOCP	VOLTAGE/PHASE
BCC-01	8	1	15	208/1

LOUVER SCHEDULE

MARK	PANEL SIZE	MIN. FREE AREA (SQ. FT.)	MAX CFM	APD (IN)	DESCRIPTION	SERVICE
L-M1	42 x 24	3.0	1500	0.1	6" EXTRUDED ALUM. LOUVER WITH DRAINABLE BLADE	OUTSIDE AIR
L-M2	42 x 24	3.0	1500	0.1	6" EXTRUDED ALUM. LOUVER WITH DRAINABLE BLADE	OUTSIDE AIR
L-O1	18 x 16	0.50	375	0.1	6" EXTRUDED ALUM. LOUVER WITH DRAINABLE BLADE	OCTAGON
L-O2	12 x 16	0.30	225	0.1	6" EXTRUDED ALUM. LOUVER WITH DRAINABLE BLADE	OCTAGON
L-O3	12 x 16	0.13	100	0.1	6" EXTRUDED ALUM. LOUVER WITH DRAINABLE BLADE	OCTAGON
L-O4	12 x 16	0.30	225	0.1	6" EXTRUDED ALUM. LOUVER WITH DRAINABLE BLADE	OCTAGON

NOTES:
1. BASIS OF DESIGN: RUSKIN. ACCEPTABLE EQUALS: GREENHECK, ARCAT.
2. PROVIDE ARCHITECT COLOR PALLETTE AND FINISH OPTIONS.

FAN SCHEDULE

DESIGNATION	SERVICE	TYPE	AIRFLOW (CFM)	ESP (IN)	DRIVE TYPE	FAN SPEED (RPM)	BRAKE MOTOR SIZE (BHP)	FAN MOTOR SIZE (W)	VOLTAGE/PHASE	EXT START/DISCONNECT MEANS
EXH-M1	MAINTENANCE	CABINET	100	0.375	DIRECT	0	0.01	21	120/1	MRT
EXH-M2	MAINTENANCE	SIDEWALL PROP	1500	0.375	DIRECT	0	0.23	1/2 HP	120/1	MRT
EXH-O1	OCTAGON	CABINET	375	0.500	DIRECT	0	0.07	368	120/1	MRT
EXH-O2	OCTAGON	CABINET	225	0.500	DIRECT	0	0.05	92	120/1	MRT
EXH-O3	OCTAGON	CABINET	100	0.375	DIRECT	0	0.01	21	120/1	MRT
EXH-O4	OCTAGON	CABINET	225	0.500	DIRECT	0	0.05	92	120/1	MRT

NOTES:
1. PROVIDE EXTERNAL STARTER/DISCONNECTING MEANS AS SCHEDULED. (C/P, MRT/ MS/D, VFD)

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PLAN INFORMATION

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FILENAME	TORLRPMP_CENTRAL_2020
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SCHEDULES

H501

ELECTRICAL...

A	AMPERES OR AMP METER
AC	ALTERNATING CURRENT
AF	AMP FRAME
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERE INTERRUPTING CAPACITY
ALT	ALTERNATE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ARCH	ARCHITECTURAL
AT	AMP TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAGE
BFC	BELOW FINISHED CEILING
BFG	BELOW FINISHED GRADE
C	CELSIUS; COIL
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION SYSTEM
CD/Cd	CANDELA
CLG	CEILING
COAX	COAXIAL CABLE
CONTR	CONTRACTOR
CT	CURRENT TRANSFORMER
CTV	CABLE TELEVISION
CU	COPPER
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
ECB	ENCLOSED CIRCUIT BREAKER
EF	EXHAUST FAN
EGC	EQUIPMENT GROUNDING CONDUCTOR
ELEC	ELECTRICAL
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
EPO	EMERGENCY POWER OFF
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
FACP	FIRE ALARM CONTROL PANEL
FATC	FIRE ALARM TERMINATION CABINET
FFE	FINISHED FLOOR ELEVATION
FL	FLOOR
FLA	FULL LOAD AMPS
FLC	FLEXIBLE LIQUIDTIGHT CONDUIT
FLEX	FLEXIBLE
FMC	FLEXIBLE METAL CONDUIT
FT	FEET; FOOT
FU	FUSE
GA	GAUGE; GAGE
GB	GROUND BUS
GC	GENERAL CONTRACTOR
GEC	GROUNDING ELECTRODE CONDUCTOR
GFI, GFCI	GROUND FAULT (CIRCUIT) INTERRUPTER
GND	GROUND
HD	HEAVY DUTY
HOA	HANDS-OFF-AUTOMATIC
HP	HORSEPOWER
HVAC	HEATING, VENTILATING & AIR CONDITIONING
HZ	HERTZ
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
JB	JUNCTION BOX
KV	KILOVOLT
KVA	KILOVOLT AMPERE
KW	KILOWATT
KWH	KILOWATT HOUR
LED	LIGHT EMMITING DIODE
LRA	LOCKED ROTOR AMPS
LS	LIFE SAFETY
LTG	LIGHTING
M	MOTOR; METERING
MC	METAL CLAD
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CONTROL PROTECTOR
MCS	MOLDED CASE SWITCH
MH	MANHOLE
MIN	MINIMUM
MLO	MAIN LUG ONLY
N, NEU	NEUTRAL
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NF	NON-FUSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN; NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OL	OVERLOAD
P	POLE
PB	PULL BOX
PC	PHOTOCELL
PF	POWER FACTOR
PH	PHASE
PNL	PANEL
PT	POINT; POTENTIAL TRANSFORMER
PUN	PER UNIT NAMEPLATE
PVC	POLYVINYL CHLORIDE (CONDUIT)
RD	ROUND
REV	REVISION
RLA	RATED LOAD AMPS
RMC	RIDGID METAL CONDUIT
SN	SOLID NEUTRAL
SNAC	SIGNAL NOTIFICATION APPLIANCE CIRCUIT
SP	SURGE PROTECTED
SPD	SURGE PROTECTED DEVICE
SPDT	SINGLE POLE DOUBLE THROW
SPEC	SPECIFICATION
SPST	SINGLE POLE SINGLE THROW
SQ	SQUARE
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TBB	TELEPHONE BACK BOARD

ELECTRICAL...

TELECOM	TELECOMMUNICATIONS
TEMP	TEMPERATURE
THD	TOTAL HARMONIC DISTORTION
TV	TELEVISION
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES INC.
UNO	UNLESS NOTED OTHERWISE
V	VOLTAGE; VOLT
VAC	VOLTS ALTERNATING CURRENT
VDC	VOLTS DIRECT CURRENT
VFD	VARIABLE FREQUENCY DRIVE
VOL	VOLUME
W	WIRE
W/	WITH
WG	WIREGUARD
WP	WEATHERPROOF
XFMR	TRANSFORMER
XP	EXPLOSION PROOF
Z	IMPEDANCE
ø	ROUND; DIAMETER; PHASE

ELECTRICAL SYMBOLS

- WALL MTD LIGHTING FIXTURE AND OUTLET
- PENDANT LIGHTING FIXTURE AND OUTLET
- DOWNLIGHT LIGHTING FIXTURE AND OUTLET
- WALL MTD LIGHTING FIXTURE AND OUTLET
- CEILING MTD LIGHTING FIXTURE AND OUTLET
- WALL MTD EXIT SIGN AND OUTLET, SINGLE FACE. ARROW INDICATES DIRECTION.
- CEILING MTD EXIT SIGN AND OUTLET, DUAL FACE. ARROWS INDICATE DIRECTION.
- EMERGENCY LIGHT BATTERY PACK - TWO HEAD UNIT.
- CEILING MOUNTED EMERGENCY BATTERY LIGHT
- EMERGENCY LIGHT REMOTE HEAD
- GROUND MOUNTED FLOODLIGHT AND OUTLET
- AREA LUMINAIR AND STANDARD
- FLUSH MTD TOGGLE SWITCH, SPST, 20A, 120/277V
- S_2 FLUSH MTD TOGGLE SWITCH, DPST, 20A, 120/277V
- S_3 FLUSH MTD 3-WAY TOGGLE SWITCH, 20A, 120/277V
- S_4 FLUSH MTD 4-WAY TOGGLE SWITCH, 20A, 120/277V
- S_D FLUSH MTD DIMMER SWITCH, 20A, 120/277V
- S_K FLUSH MTD KEY SWITCH, 20A, 120/277V
- S_{OS} FLUSH MOUNTED OCCUPANCY SENSOR SWITCH, 20A, 120/277V
- S_1 FLUSH MTD LIGHTED HANDLE TOGGLE SWITCH, SPST, 20A, 120V. LIGHT ON WITH OPEN SWITCH
- S_P FLUSH MTD TOGGLE SWITCH WITH PILOT LIGHT. LIGHT ON WITH CLOSED SWITCH.
- S_T TIMED SWITCH
- OS IR CEILING MTD INFRA-RED OCCUPANCY SENSOR SWITCH, 20A, 120/277V
- OS U CEILING MTD ULTRASONIC OCCUPANCY SENSOR SWITCH, 20A, 120/277V
- OS DT CEILING MTD DUAL TECHNOLOGY (IR, U) OCCUPANCY SENSOR SWITCH, 20A, 120/277V
- PC PHOTOCELL
- FLUSH MTD DUPLEX RECEPTACLE, 20A, 125V, 3W
- G FLUSH MTD DUPLEX GFCI RECEPTACLE, 20A, 125V, 3W
- U FLUSH MTD DUPLEX RECEPTACLE WITH DUPLEX USB OUTLETS, 20A, 125V, 3W
- FLUSH MTD SINGLE RECEPTACLE, 20A, 125V, 3W
- FLUSH MTD QUADRUPLEX RECEPTACLE, 20A, 125V, 3W
- FLUSH MTD DUPLEX RECEPTACLE, 20A, 125V, 3W, SPLIT WIRED WITH TOP OUTLET SWITCHED.
- FLUSH MTD DUPLEX RECEPTACLE, 20A, 125V, 3W, INSTALLED VERTICALLY 4" ABOVE BACKSPLASH OR COUNTERTOP IF NO BACKSPLASH EXISTS.
- FLUSH MTD QUADRUPLEX RECEPTACLE, 20A, 125V, 3W, INSTALLED VERTICALLY 4" ABOVE BACKSPLASH OR COUNTERTOP IF NO BACKSPLASH EXISTS.
- X WALL MOUNTED POWER DEVICE, REFER TO SCHEDULES FOR MARK
- FB X FLOOR BOX WITH DEVICE(S). REFER TO SCHEDULES FOR MARK
- WALL MTD TELECOM OUTLET, REFER TO SCHEDULES FOR MARK
- CEILING MTD DUPLEX RECEPTACLE AND OUTLET, 20A, 125V, 3W
- CEILING MTD TELECOM OUTLET, REFER TO SCHEDULES FOR MARK
- CEILING MTD DUPLEX RECEPTACLE & TELECOM OUTLET, REFER TO SCHEDULES FOR MARK
- SP CEILING MTD PUBLIC ADDRESS SPEAKER
- V FLUSH MTD VOLUME CONTROL FOR SPEAKER
- TV WALL MTD TELEVISION ANTENNA/ELECTRICAL OUTLET

- PANELBOARD, 250V LEVEL
- PANELBOARD, 600V LEVEL
- X-#,#,# HOMERUN; ARROW HEADS INDICATE NUMBER OF CIRCUITS, LETTERS AND NUMBERS DESIGNATE PANEL AND CIRCUITS. SHORT TICK MARKS INDICATE NUMBER OF CURRENT CARRYING PHASE CONDUCTORS. LONG TICK MARK(S) INDICATE NEUTRAL(S). GROUNDING CONDUCTORS REQUIRED BY SPECIFICATIONS ARE NOT SHOWN. CONDUCTOR SIZES SPECIFIED ON THE PANEL SCHEDULES ARE MANDATORY FOR THE ENTIRE CIRCUIT EXCEPT WHERE SPECIFICATIONS REQUIRE A SIZE INCREASE FOR VOLTAGE DROP.
- X SURFACE METAL RACEWAY WITH DEVICES, LETTER DESIGNATES TYPE
- PENDANT MTD, PLUG-IN BUS DUCT WITH PLUG-IN CIRCUIT BREAKER OR FUSIBLE SWITCH AND TAP BOX. DUCT AND SWITCH RATING AS NOTED.
- #A TOP # - DEVICE MAXIMUM RATING OR FRAME SIZE
#A BOTTOM # - FUSE SIZE OR DEVICE SETTING
- DISCONNECT SWITCH.
- COMBINATION DISCONNECT SWITCH AND MAGNETIC MOTOR STARTER. SEE SCHEDULE OR NOTE.
- S^M FLUSH MTD MANUAL MOTOR STARTER SWITCH WITHOUT OVERLOAD HEATERS
- MAGNETIC MOTOR STARTER
- ## 3 POLE CIRCUIT BREAKER IN ENCLOSURE. NO INDICATES CB RATING.
- VFD # VARIABLE FREQUENCY DRIVE CONTROLLER, 40" AFF, PROVIDED BY HVAC OR PLUMBING CONTRACTOR AND WIRED BY ELECTRICAL CONTRACTOR
- C MAGNETIC CONTACTOR, SIZE PER SCHEDULE
- J JUNCTION, PULL, TAP OR OUTLET BOX (CODE SIZE)
- TC TIME CLOCK
- R MAGNETIC RELAY, SIZE PER SCHEDULE

- FLUSH MOUNTED MUSHROOM HEAD PUSH BUTTON
- FLUSH MOUNTED PUSH BUTTON
- SUPPLEMENTAL GROUND BAR
- GROUND PER NEC

- M ELECTRICAL DEMAND METER
- SPD SURGE PROTECTION DEVICE
- F WALL MTD FIRE ALARM PULL STATION
- SD SMOKE DETECTOR, CEILING MTD
- SD SB SMOKE DETECTOR WITH SOUNDER BASE, CEILING MTD
- SD MS SMOKE DETECTOR, CEILING MTD, MULTI SENSOR
- L CEILING MTD REMOTE ALARM INDICATOR LAMP
- DD SMOKE DETECTOR, DUCT MTD (WITH RAIL)
- HD HEAT DETECTOR, CEILING MTD
- SD SMOKE DETECTOR, WALL MTD
- SB SD SMOKE DETECTOR WITH SOUNDER BASE, WALL MTD
- HD WALL MTD HEAT DETECTOR
- L WALL MTD REMOTE ALARM INDICATOR LAMP (RAIL)
- H # WALL MTD HORN TYPE AUDIO/VISUAL APPLIANCE
- S # WALL MTD SPEAKER TYPE AUDIO/VISUAL APPLIANCE
- C # WALL MTD CHIME TYPE AUDIO/VISUAL APPLIANCE
- # WALL MTD VISUAL ALARM APPLIANCE
- H # CEILING MTD HORN TYPE AUDIO/VISUAL ALARM APPLIANCE
- S # CEILING MTD SPEAKER TYPE AUDIO/VISUAL ALARM APPLIANCE
- C # CEILING MTD CHIME TYPE AUDIO/VISUAL ALARM APPLIANCE
- # CEILING MTD FIRE ALARM VISUAL DEVICE
- DH DOOR HOLDER
- M FIRE ALARM MONITOR MODULE
- FS FLOW SWITCH FIRE ALARM CONNECTION, SWITCH PROVIDED BY OTHERS
- TS TAMPER SWITCH FIRE ALARM CONNECTION, SWITCH PROVIDED BY OTHERS
- PV POST INDICATOR VALVE FIRE ALARM CONNECTION, VALVE PROVIDED BY OTHERS
- LT FIRE ALARM TEMPERATURE SENSOR
- R FIRE ALARM CONTROL MODULE OR RELAY
- S CEILING MTD FIRE ALARM SPEAKER

- # FIRE ALARM BELL; # INDICATED DIAMETER IN INCHES
- BT LINEAR BEAM TRANSMITTER
- BR LINEAR BEAM RECEIVER
- S FIRE ALARM WALL MTD SPEAKER

- P FIREMAN'S 2-WAY TELEPHONE
- ISO FIRE ALARM ISOLATION MODULE
- ASD FIRE ALARM ASPIRATION SMOKE DETECTOR
- DACT DIGITAL ALARM COMMUNICATIONS TRANSMITTER
- FAAP FIRE ALARM ANNUNCIATOR PANEL
- FACP FIRE ALARM CONTROL PANEL
- FATC FIRE ALARM TERMINAL CABINET
- SNAC SUPPLEMENTAL NOTIFICATION APPLIANCE CABINET
- IDC # DOOR CONTROL ID TAG
- KP SECURITY SYSTEM KEYPAD, 60" AFF
- CR ACCESS CONTROL CARD READER
- PB SECURITY PANIC BUTTON
- CCTV SECURITY CAMERA WITH FIXED MOUNT
- CCTV SECURITY CAMERA WITH PTZ FEATURES
- ET EMERGENCY TELEPHONE
- RM MASTER RESCUE ASSISTANCE STATION
- RA RESCUE ASSISTANCE STATION
- RL RESCUE ASSISTANCE LIGHT
- NEW WORK
- EXISTING TO REMAIN
- EXISTING TO BE DEMOLISHED

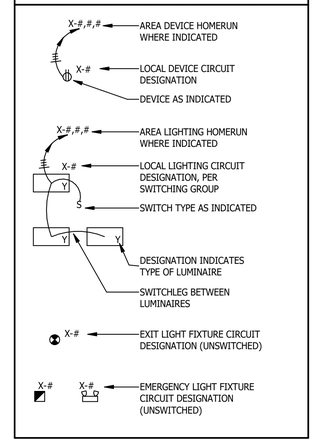
GENERAL SYMBOLS

- PLAN OR DETAIL NUMBER / SHEET NUMBER
- ELEVATION LETTER / SHOWN ON SHEET NUMBER
- SECTION NUMBER / SHOWN ON SHEET NUMBER
- DIMENSION LINE
- DETAIL NUMBER / WITH SHEET NO.
- A COLUMN NUMBER OR LETTER
- 1 DRAWING REVISION NUMBER
- KEYED NOTE NUMBER
- CONNECT TO EXISTING
- REMOVE TO THIS POINT
- NORTH ARROW

ELECTRICAL GENERAL NOTES

1. ALL SYMBOLS AND ABBREVIATIONS MAY NOT BE UTILIZED FOR THIS PROJECT.
2. SYMBOLS NOT SHOWN ON THIS ELECTRICAL SYMBOL LEGEND ARE IDENTIFIED ON THE DRAWINGS WHERE THEY OCCUR.
3. UNLESS OTHERWISE INDICATED IN THE SPECIFICATIONS OR ON THE DRAWINGS, MOUNTING HEIGHT OF DEVICES IS TO BE THE CENTERLINE OF THE DEVICE.
4. UNLESS OTHERWISE INDICATED, SWITCHES AND SIMILAR DEVICES ARE TO BE LOCATED 42" AFF; RECEPTACLES ARE TO BE VERTICALLY MOUNTED AT 18" AFF WITH THE GROUNDING TERMINAL ON THE BOTTOM.
5. TELEPHONE & DATA OUTLETS ARE TO BE MOUNTED AT 18" AFF UNLESS OTHERWISEINDICATED. "W" INDICATES MOUNTING AT 42" AFF; "C" INDICATES MOUNTING ABOVECOUNTERTOP WITH ALIGNMENT AND HEIGHT AS INDICATED FOR RECEPTACLES SIMILARLY MOUNTED.
6. FIRE ALARM PULL STATIONS ARE TO BE VERTICALLY MOUNTED AT 42" AFF.
7. FIRE ALARM INDICATING APPLIANCES SHALL BE 15 Cd RATING, UNLESS NOTED OTHERWISE ON THE PLANS.
8. FIRE ALARM INDICATING APPLIANCES ARE TO BE MOUNTED WITH THE LOWER EDGE OF THE VISUAL ELEMENT AT 6'-8" AFF OR 6" BFC, WHICHEVER IS LOWER. WHERE DUCTWORK, CONDUIT, OR OTHER OBSTRUCTIONS BLOCK DIRECT VIEW OF APPLIANCE, MOUNT 6" BELOW SUCH OBSTRUCTIONS.
9. CEILING MOUNTED SMOKE DETECTORS ARE SHOWN IN APPROXIMATE LOCATION. COORDINATE EXACT LOCATION WITH CEILING FEATURES. WALL MOUNTED SMOKE DETECTECTORS ARE TO BE MOUNTED 10" BELOW FINISHED CEILING TO THE CENTER OF DEVICE AND A MINIMUM OF 12" FROM ADJACENT WALLS OR OTHER OBSTRUCTIONS.
10. COORDINATE SMOKE DETECTOR AND HEAT DETECTOR LOCATIONS WITH HVAC SUPPLY AND RETURN GRILLES. MAINTAIN 3'-0" CLEARANCE BETWEEN EDGE OF SUPPLY GRILL AND EDGE OF SMOKE DETECTOR.
11. UPPER CASE LETTER (OR LETTER/NUMBER COMBINATION) ADJACENT TO FIXTURE OR SWITCH DESIGNATES TYPE. SEE FIXTURE SCHEDULE FOR DETAILS.
12. LOWER CASE LETTER ADJACENT TO FIXTURE OR SWITCH DESIGNATES CONTROL RELATIONSHIP.
13. NUMBER ADJACENT TO FIXTURE, SWITCH, OR RECEPTACLE DESIGNATES CIRCUIT CONNECTION.
14. SINGLE DIAGONAL LINE ACROSS A FIXTURE INDICATES FIXTURE IS UNSWITCHED FOR 24 HOUR OPERATION.

ELECTRICAL CIRCUITING KEY



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ELECTRICAL DRAWING LIST

NO.	TITLE
E001	STANDARDS, SYMBOLS & ABBREVIATIONS
E002	SITE PLAN
E002.1	PARTIAL SITE PLAN - AREA "A"
E002.2	PARTIAL SITE PLAN - AREA "B"
E002.3	PARTIAL SITE PLAN - AREA "C"
E002.4	PARTIAL SITE PLAN - AREA "D"
E002.5	PARTIAL SITE PLAN - AREA "E"
E002.6	PARTIAL SITE PLAN - AREA "F"
E111	EVENT CENTER FLOOR PLAN - POWER
E112	EVENT CENTER FLOOR PLAN - LIGHTING
E121	OCTAGON FIRST FLOOR PLAN - POWER
E122	OCTAGON SECOND FLOOR PLAN - POWER
E123	OCTAGON FIRST FLOOR PLAN - LIGHTING
E124	OCTAGON SECOND FLOOR PLAN - LIGHTING
E131	MAINTENANCE FLOOR PLAN - POWER
E132	MAINTENANCE FLOOR PLAN - LIGHTING
E141	AMPHITHEATER PLAN - POWER AND LIGHTING
E201	PANEL SCHEDULES
E301	ELECTRICAL DISTRIBUTION SYSTEM
E401	LIGHTING FIXTURE SCHEDULE
E411	TELECOMMUNICATIONS SYSTEMS
E501	ELECTRICAL DETAILS

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STANDARDS, SYMBOLS & ABBREVIATIONS

E001

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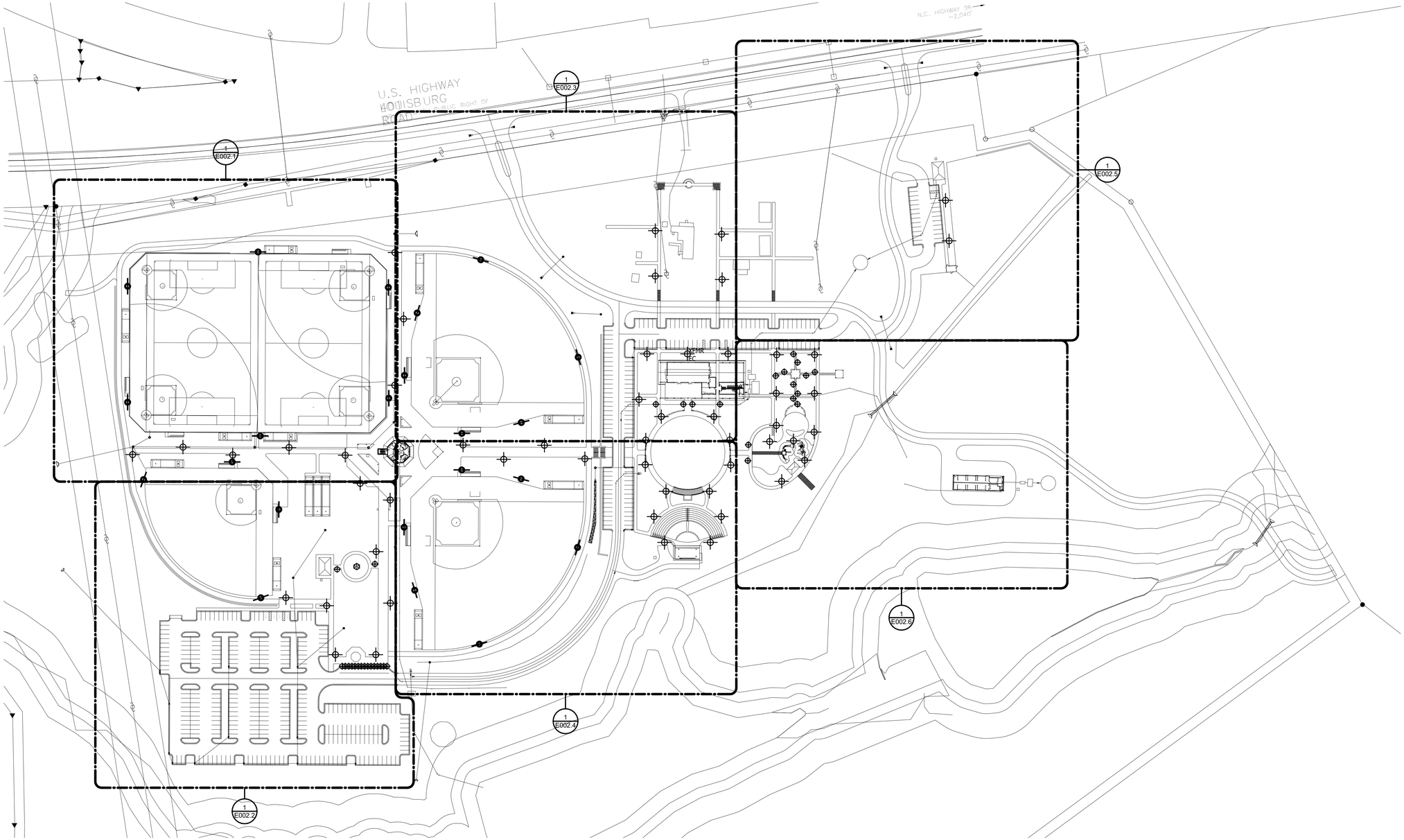

1 E002 **ELECTRICAL SITE PLAN - OVERALL**
SCALE: 1" = 100'-0"

60' 30' 0 60' 120'

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SITE PLAN

E002

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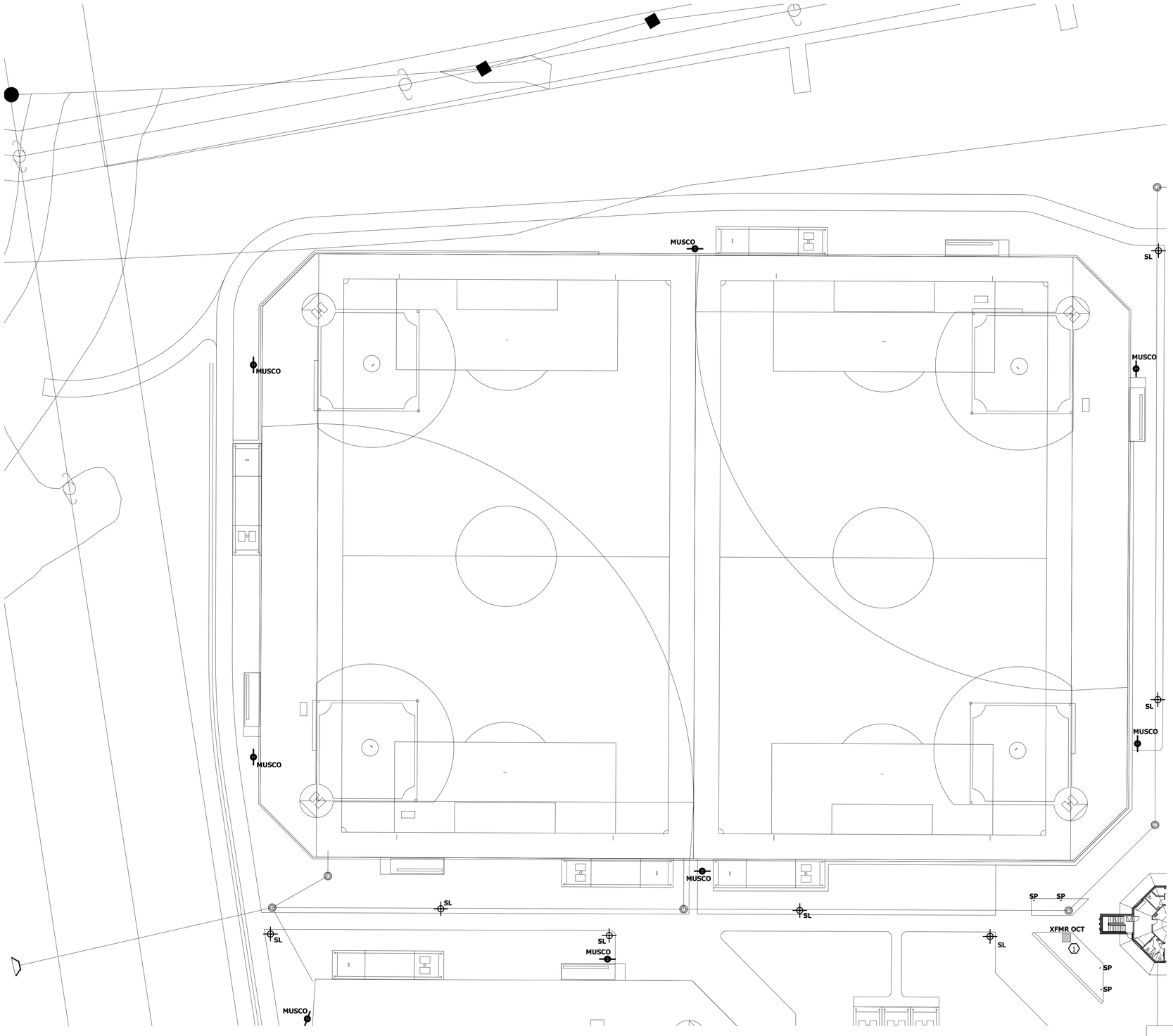

1 **PARTIAL SITE PLAN - AREA "A"**
E002.1 SCALE: 1" = 30'-0"

50' 0 50' 100'

KEY NOTES TO E002.1

1 PROPOSED SERVICE TRANSFORMER SERVING OCTAGON BLDG. TRANSFORMER LOCATION BY DUKE ENERGY. PROVIDE PIT PAD PER UTILITY REQUIREMENTS.

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PARTIAL SITE PLAN - AREA "A"

E002.1

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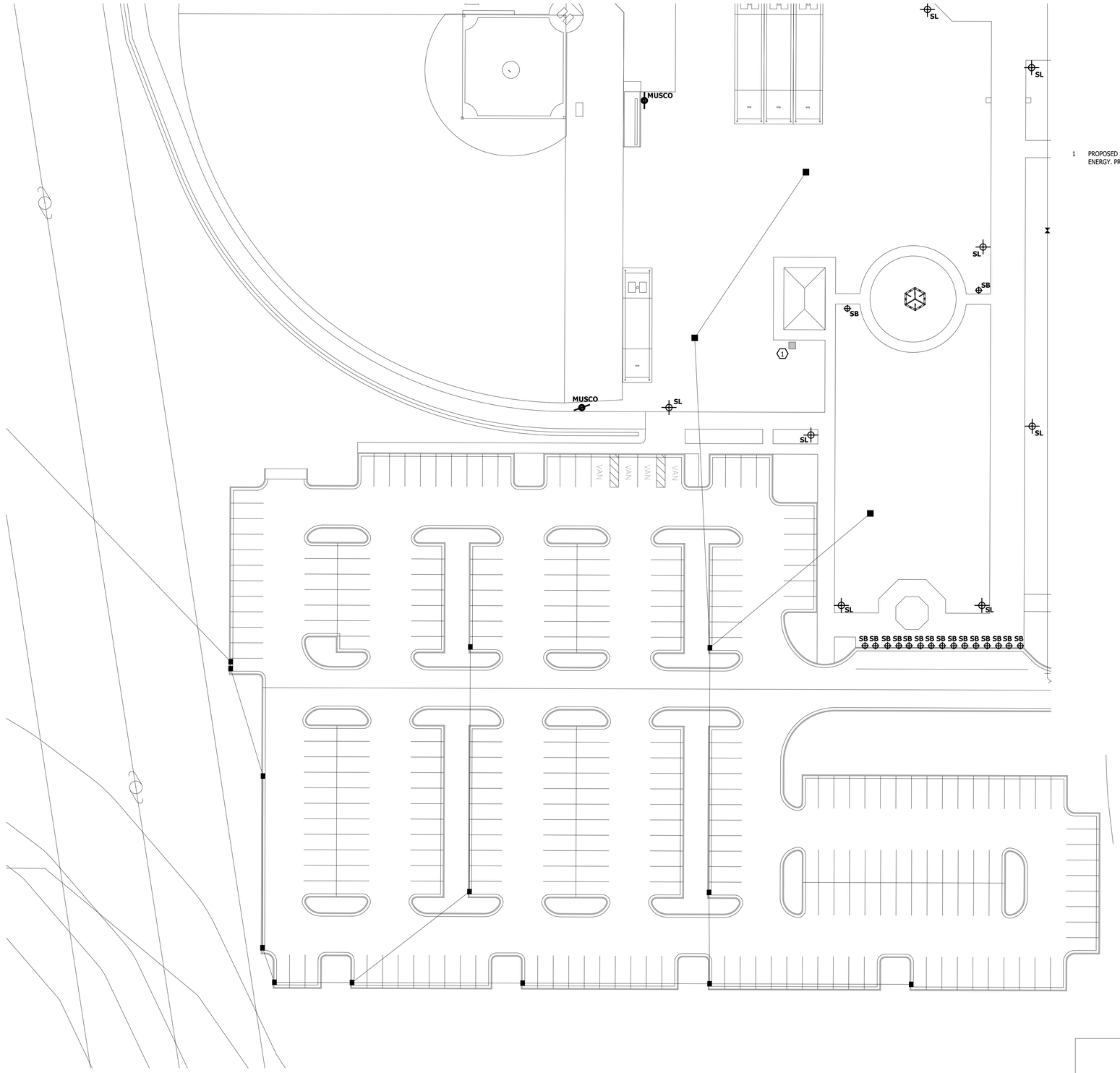

1 E002.2 **PARTIAL SITE PLAN - AREA "B"**
SCALE: 1" = 30'-0"

50' 0 50' 100'

KEY NOTES TO E002.2

1 PROPOSED SERVICE TRANSFORMER FOR PACKAGED TOILET BUILDING. TRANSFORMER LOCATION BY DUKE ENERGY. PROVIDE PIT PAD PER UTILITY REQUIREMENTS.

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PARTIAL SITE PLAN - AREA "B"

E002.2

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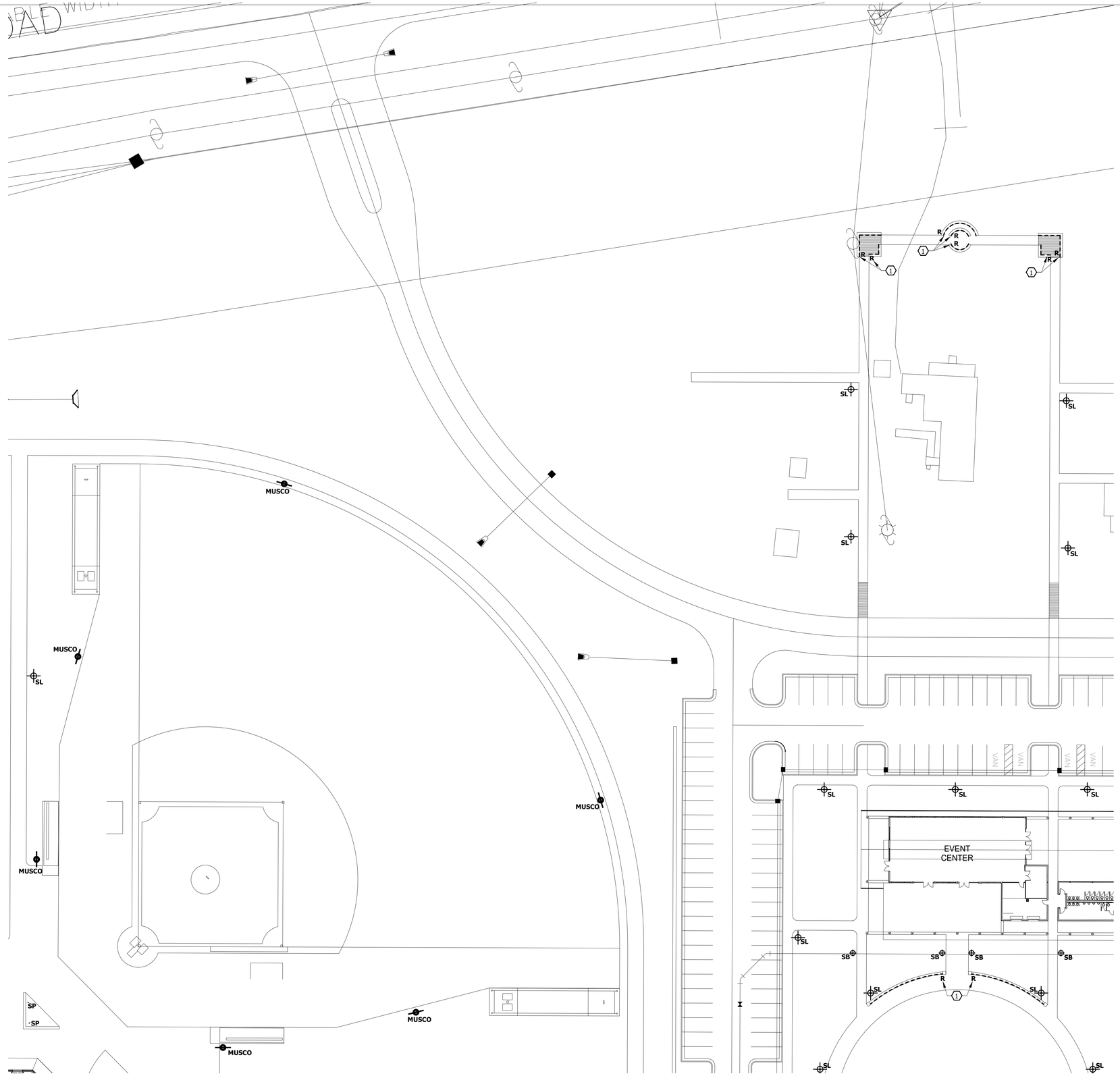

KEY NOTES TO E002.3

1 SEAT WALL WITH TYPE R LED ACCENT STRIP LIGHT. COORDINATE LOCATION OF LOW-VOLTAGE TRANSFORMER WITH ARCHITECT.

1 E002.3 **PARTIAL SITE PLAN - AREA "C"**
SCALE: 1" = 30'-0"

50' 0 50' 100'

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PARTIAL SITE PLAN - AREA "C"
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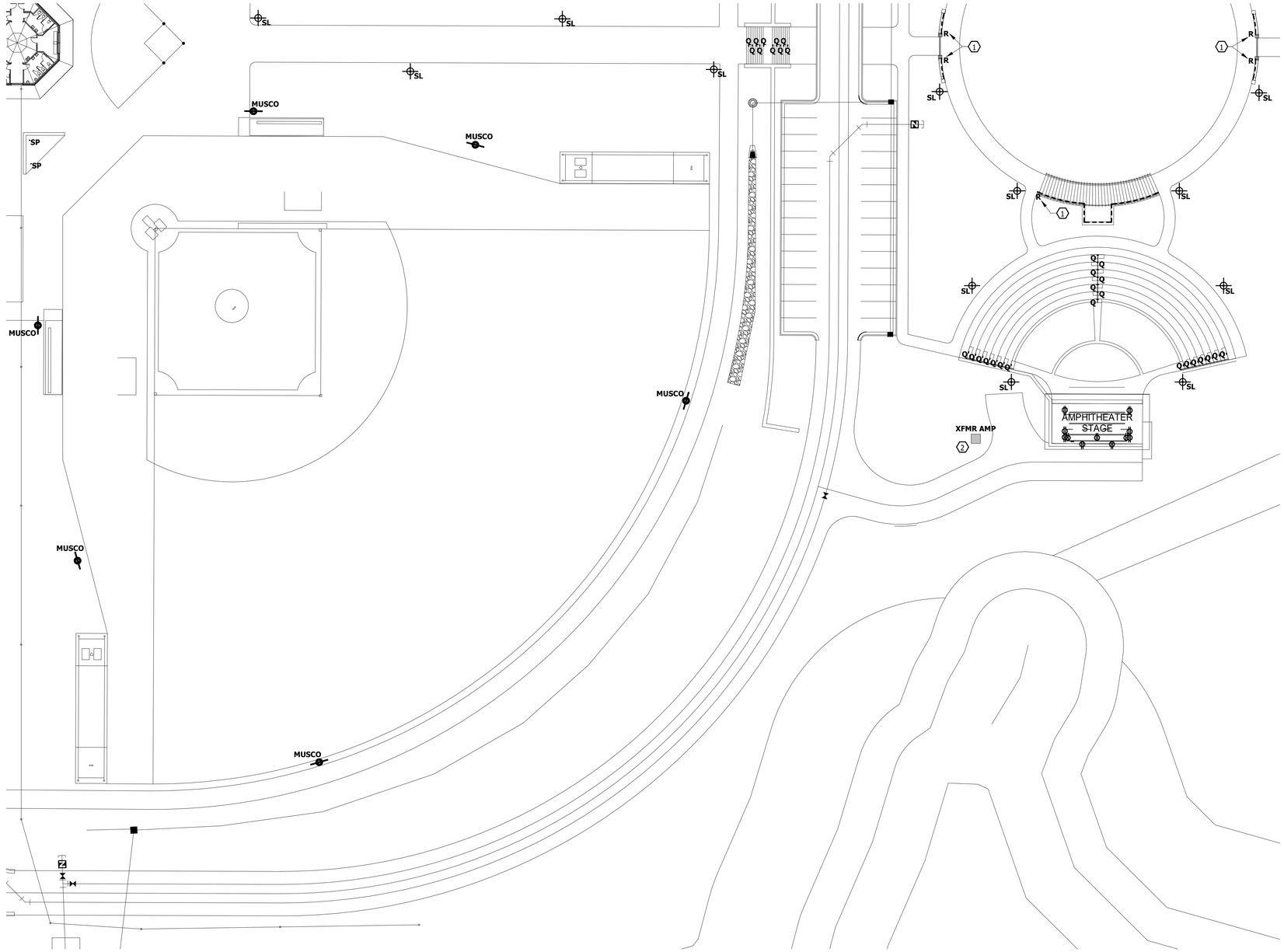

1 PARTIAL SITE PLAN - AREA "D"
E002.4 SCALE: 1" = 30'-0"

50' 0 50' 100'

KEY NOTES TO E002.4

1 SEAT WALL WITH TYPE R LED ACCENT STRIP LIGHT. COORDINATE LOCATION OF LOW-VOLTAGE TRANSFORMER WITH ARCHITECT.

2 PROPOSED SERVICE TRANSFORMER SERVING AMPHITHEATER. TRANSFORMER LOCATION BY DUKE ENERGY. PROVIDE PIT PAD PER UTILITY REQUIREMENTS.

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PARTIAL SITE PLAN - AREA "D"

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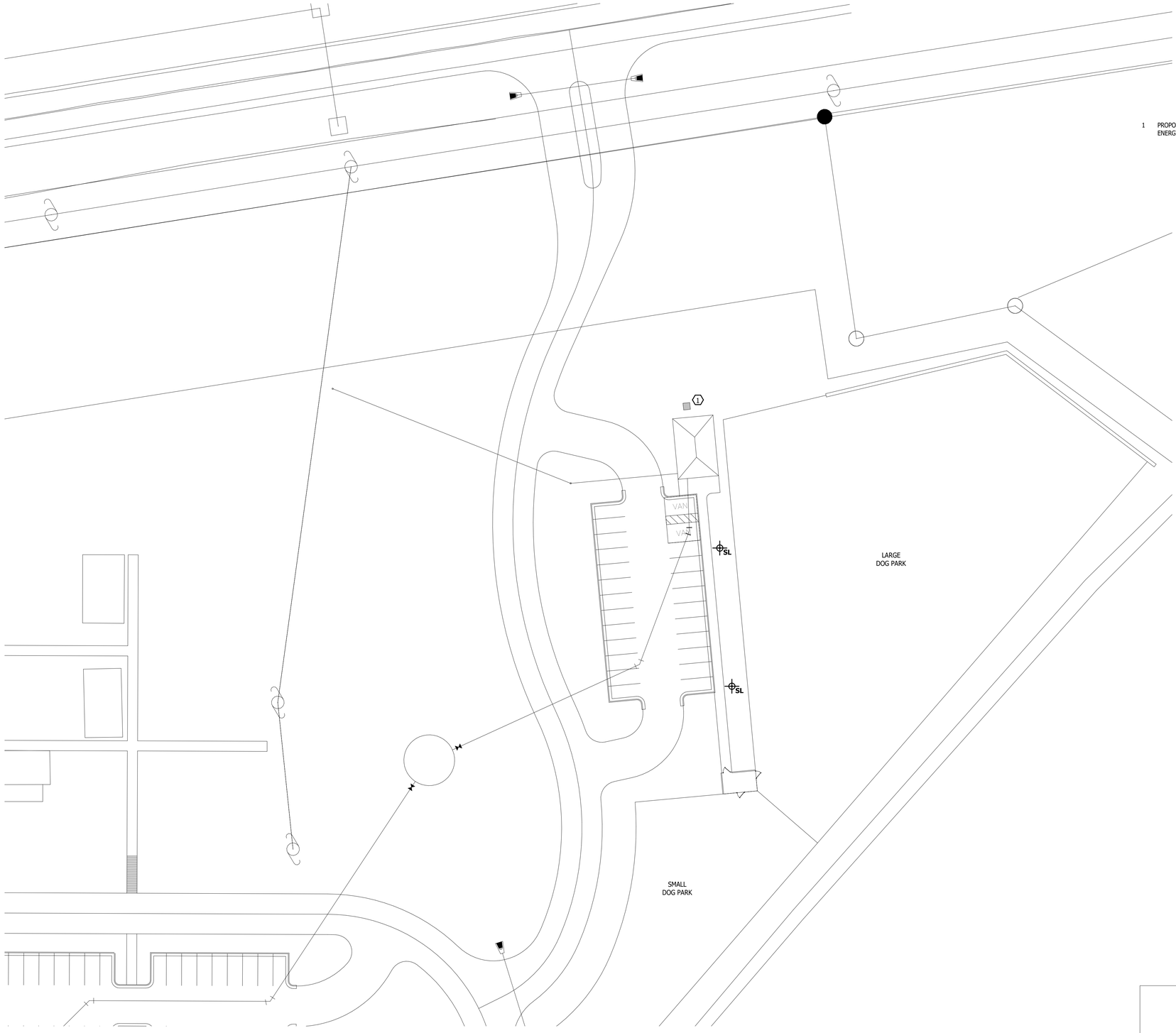

1 E002.5 **PARTIAL SITE PLAN - AREA "E"**
SCALE: 1" = 30'-0"

50' 0 50' 100'

KEY NOTES TO E002.5

1 PROPOSED SERVICE TRANSFORMER FOR PACKAGED TOILET BUILDING. TRANSFORMER LOCATION BY DUKE ENERGY. PROVIDE PIT PAD PER UTILITY REQUIREMENTS.

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PARTIAL SITE PLAN - AREA "E"

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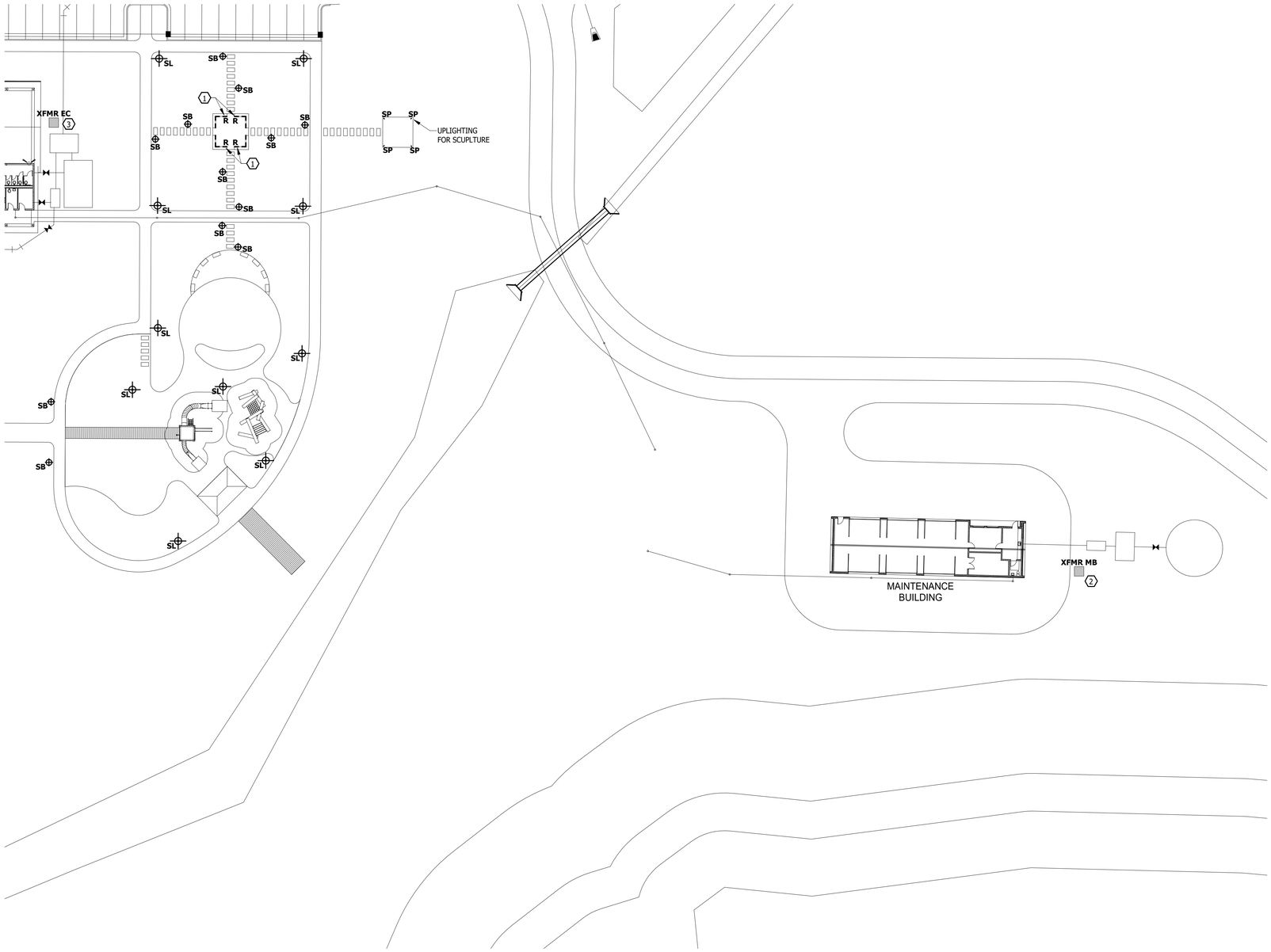

1 **PARTIAL SITE PLAN - AREA "F"**
E002.6 SCALE: 1" = 30'-0"

50' 0 50' 100'

KEY NOTES TO E002.6

1 SEAT WALL WITH TYPE R LED ACCENT STRIP LIGHT. COORDINATE LOCATION OF LOW-VOLTAGE TRANSFORMER WITH ARCHITECT.

2 PROPOSED SERVICE TRANSFORMER SERVING MAINTENANCE BUILDING. TRANSFORMER LOCATION BY DUKE ENERGY. PROVIDE PIT PAD PER UTILITY REQUIREMENTS.

3 PROPOSED SERVICE TRANSFORMER SERVING EVENT CENTER. TRANSFORMER LOCATION BY DUKE ENERGY. PROVIDE PIT PAD PER UTILITY REQUIREMENTS.

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PARTIAL SITE PLAN - AREA "F"

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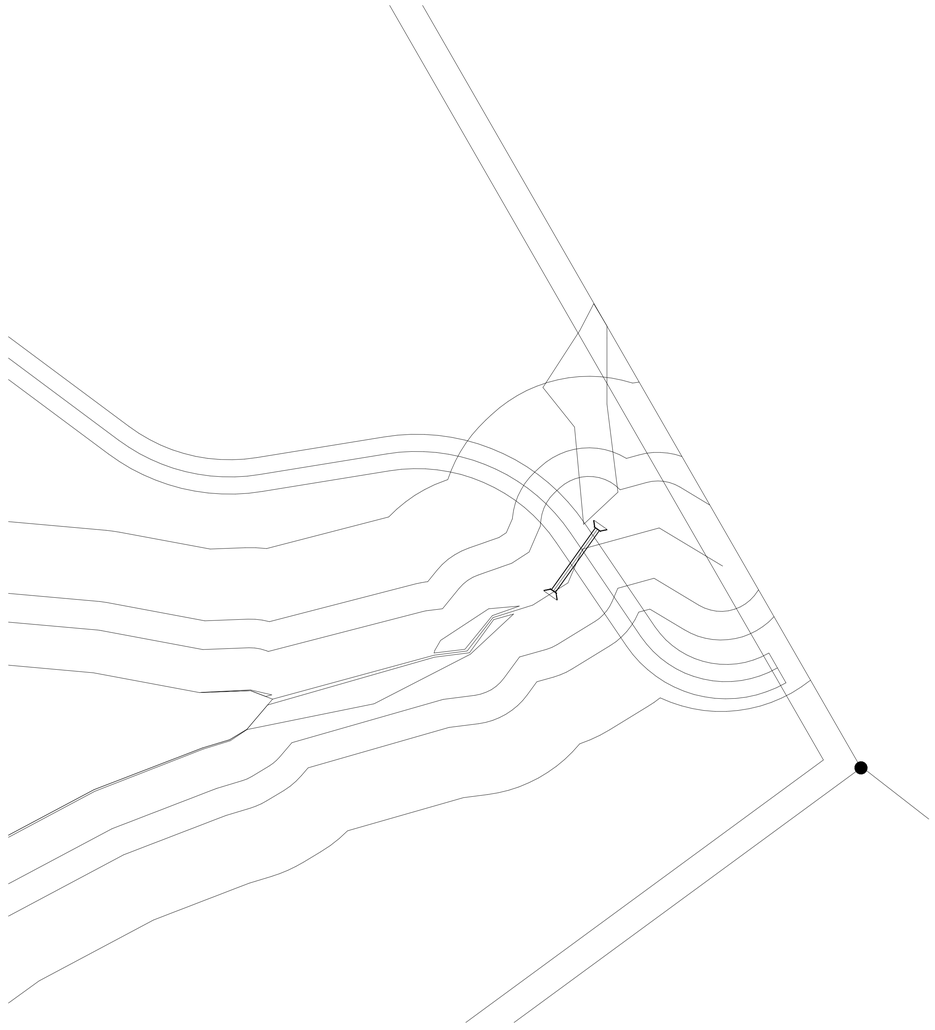

1 E002.7 **PARTIAL SITE PLAN - AREA "G"**

SCALE: 1" = 50'-0"

50' 0 50' 100'

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PARTIAL SITE PLAN - AREA "G"

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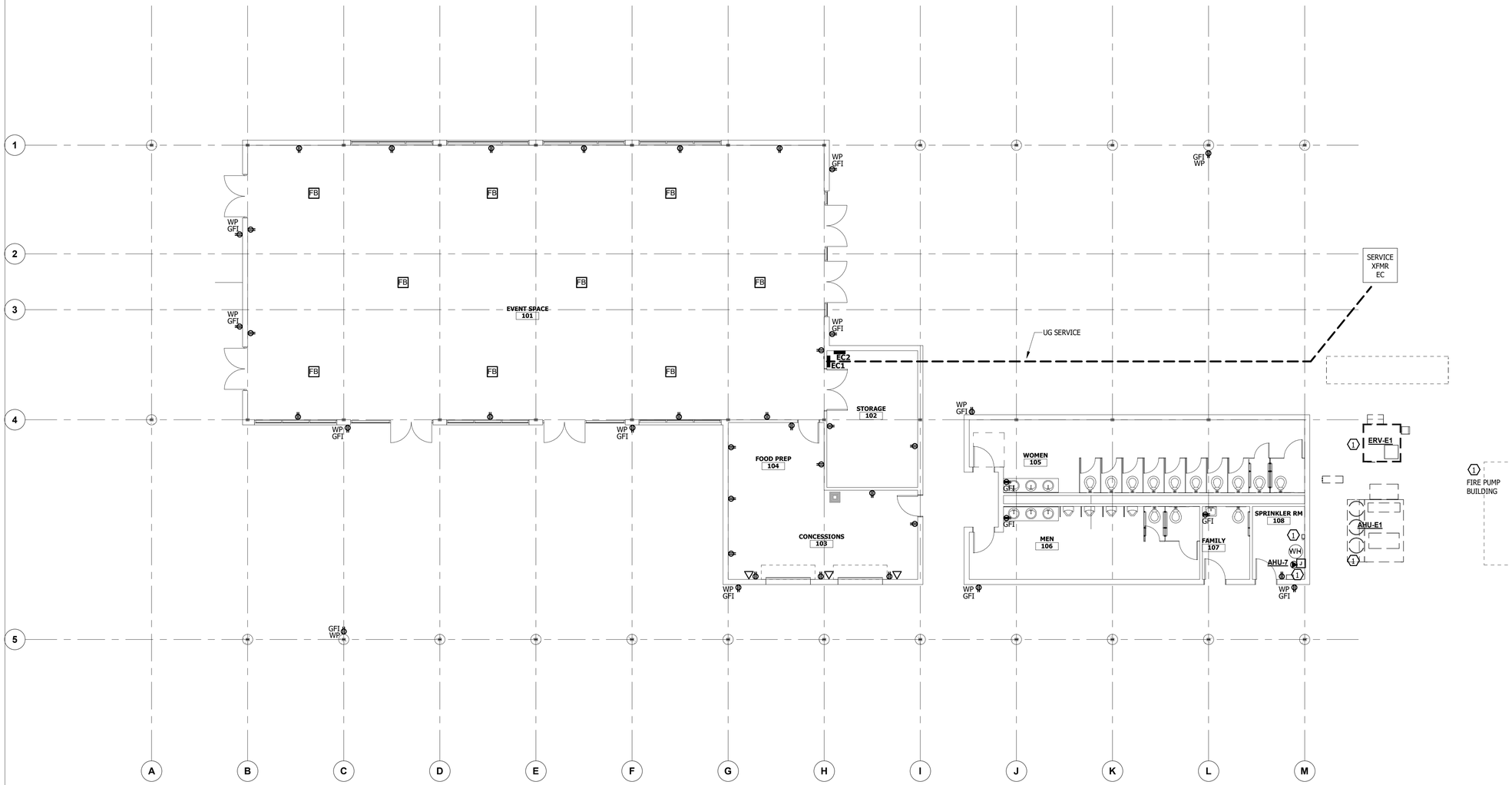
KEY NOTES TO E111

1 PROVIDE POWER CONNECTION TO LINE SIDE OF EQUIPMENT UNIT DISCONNECT PROVIDED BY OTHER TRADES.



1 E111 **EVENT CENTER FLOOR PLAN - POWER**
SCALE: 1/8" = 1'-0"
4' 0 4' 8' 12' 16' 20'

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EVENT CENTER FLOOR PLAN - POWER

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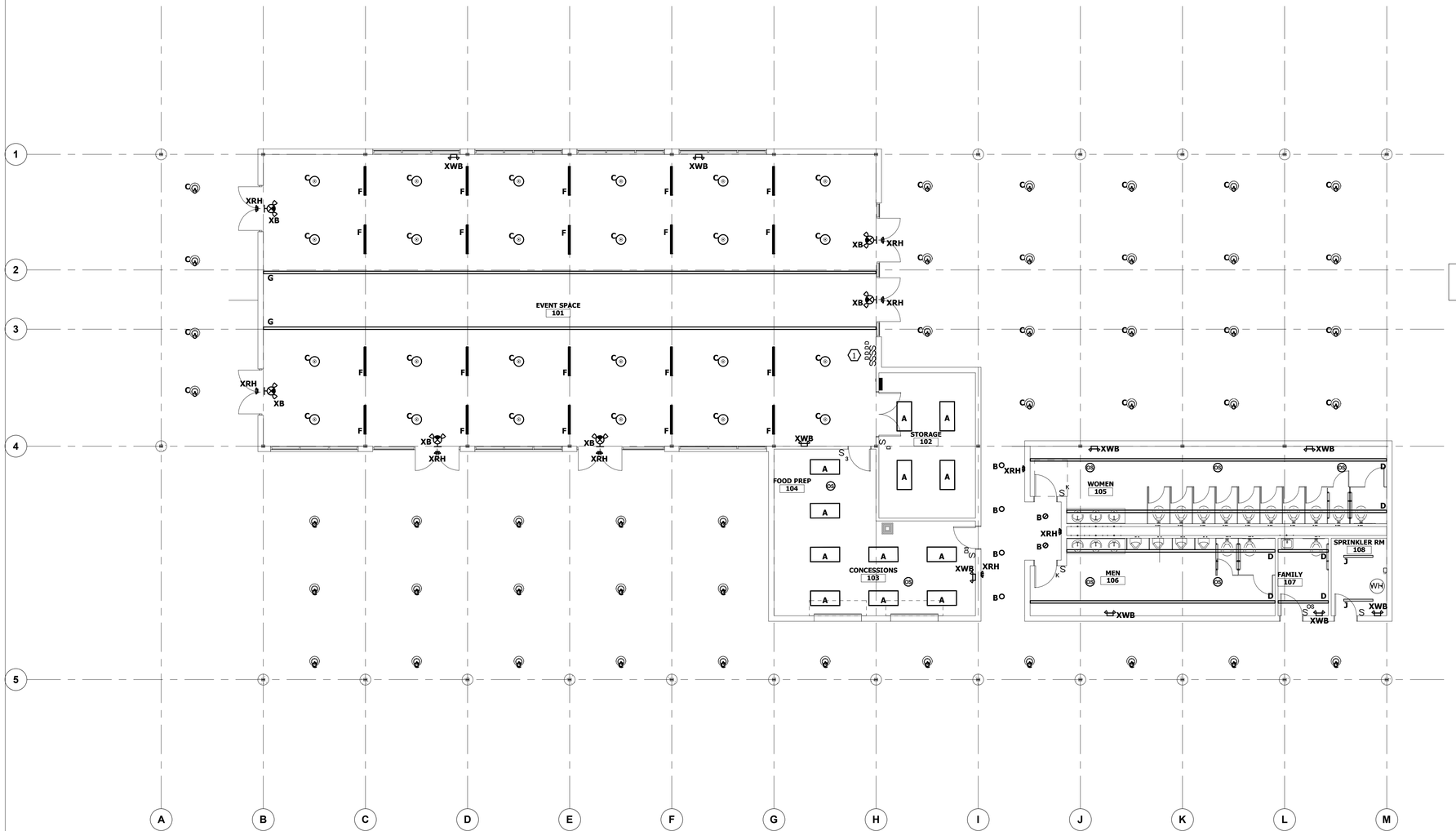
KEY NOTES TO E112

1 SWITCHING ARRANGMENT TO BE DETERMINED.



1 E112 **EVENT CENTER FLOOR PLAN - LIGHTING**
SCALE: 1/8" = 1'-0"
4' 0 4' 8' 12' 16' 20'

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EVENT CENTER FLOOR PLAN - LIGHTING

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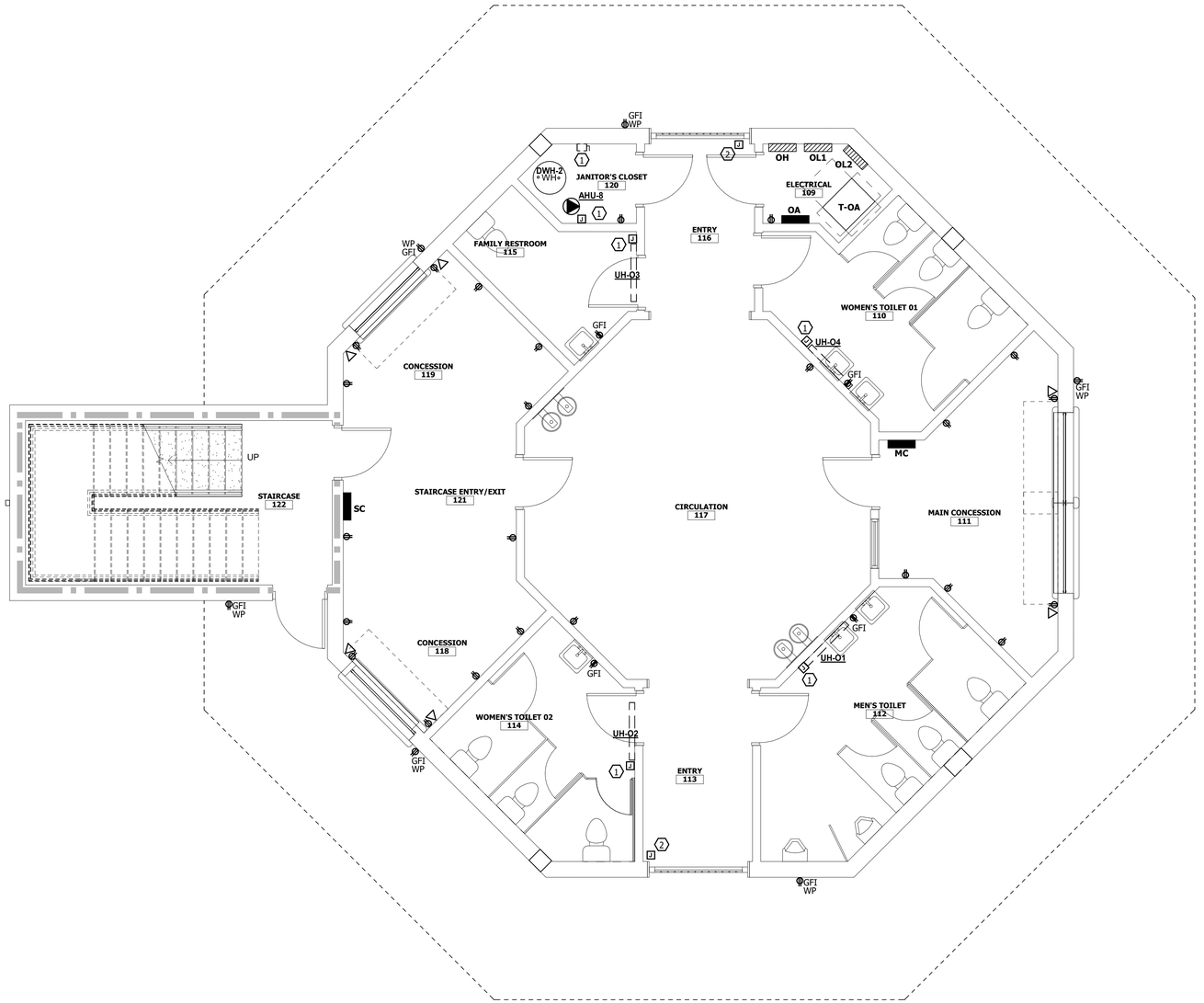

1 E121 **OCTAGON FIRST FLOOR - POWER**
SCALE: 1/4" = 1'-0"

4' 0 4' 8' 12' 16' 20'

KEY NOTES TO E121

1 PROVIDE POWER CONNECTION TO LINE SIDE OF EQUIPMENT UNIT DISCONNECT PROVIDED BY OTHER TRADES.

2 PROVIDE POWER CONNECTION FOR OVERHEAD DOOR.

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OCTAGON FIRST FLOOR PLAN - POWER

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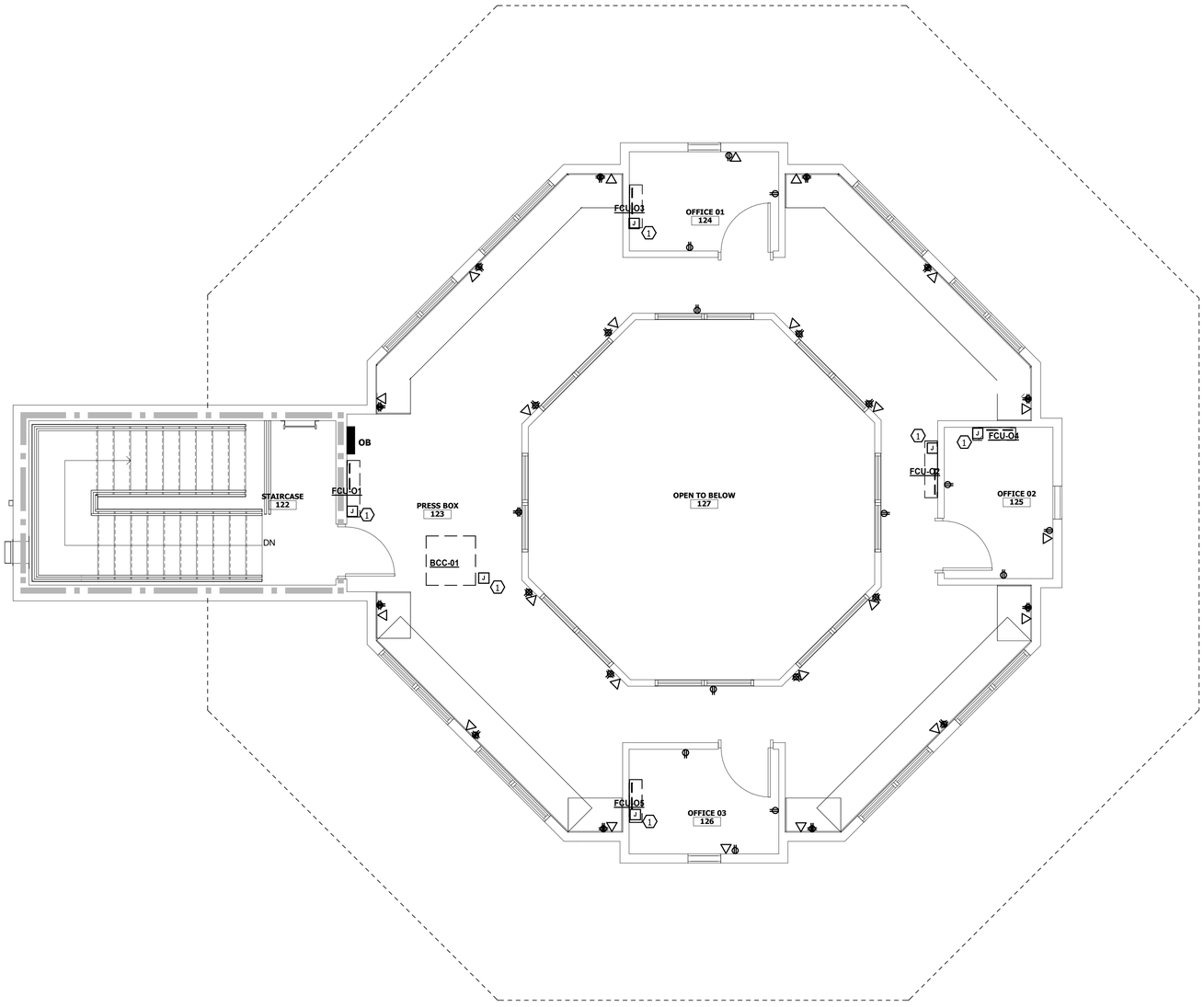
KEY NOTES TO E122

1 PROVIDE POWER CONNECTION TO LINE SIDE OF EQUIPMENT UNIT DISCONNECT PROVIDED BY OTHER TRADES.



1 / E122 **OCTAGON SECOND FLOOR PLAN - POWER**
SCALE: 1/4" = 1'-0"
4' 0 4' 8' 12' 16' 20'

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OCTAGON SECOND FLOOR PLAN - POWER
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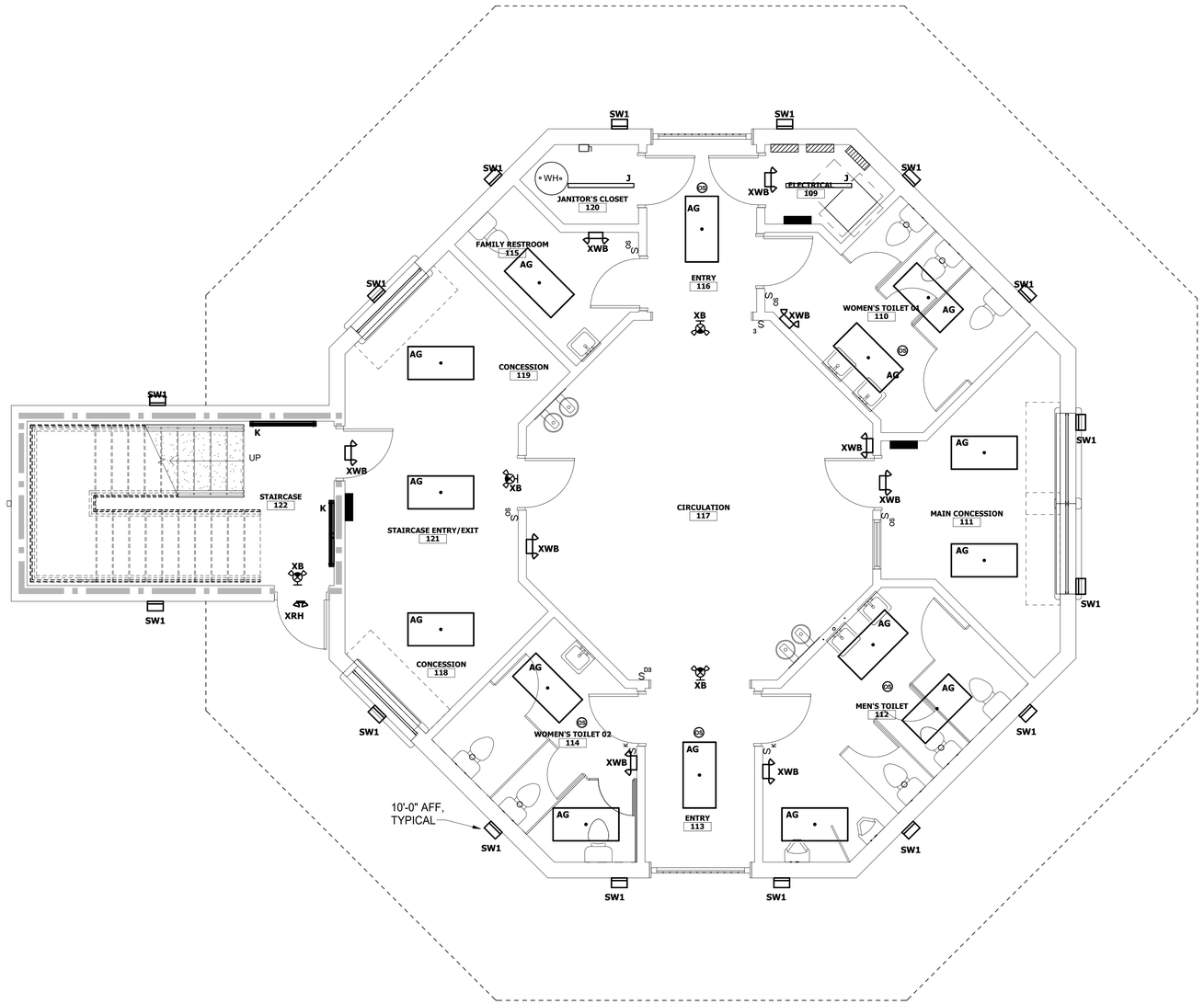

1 E123 **OCTAGON FIRST FLOOR PLAN - LIGHTING**

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

4' 0 4' 8' 12' 16' 20'

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OCTAGON FIRST FLOOR PLAN - LIGHTING

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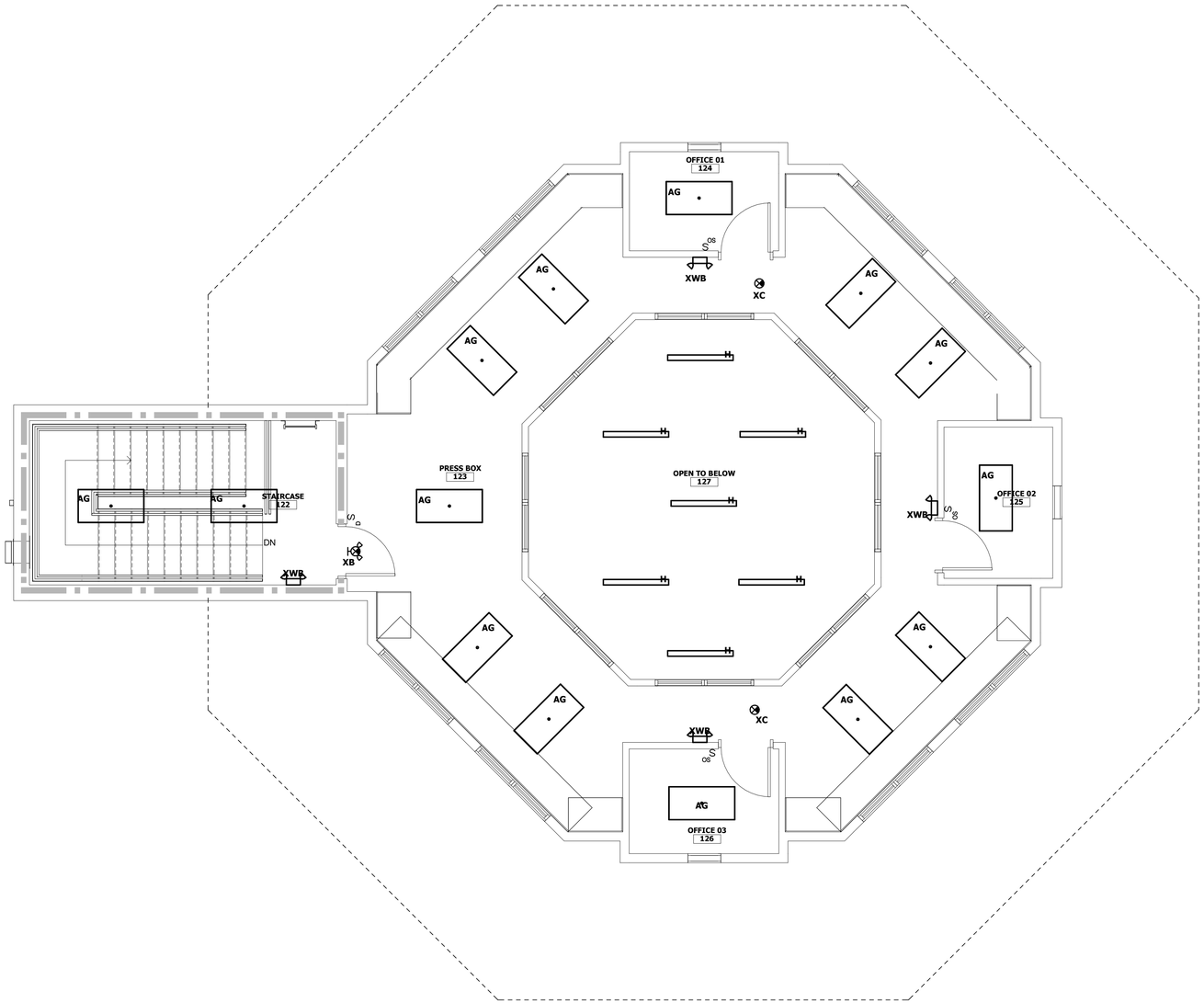

1 / E124 **OCTAGON SECOND FLOOR PLAN - LIGHTING**

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

4' 0 4' 8' 12' 16' 20'

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ENGINEER
MATTHEW J. JOHNSON

1 **REVISIONS**

PLAN INFORMATION

PROJECT NO.	202011039
FILENAME	TORLRPMP_CENTRAL_2020
CHECKED BY	MJJ
DRAWN BY	DDS
SCALE	SEE VIEW
DATE	05. 28. 2021

SHEET

OCTAGON SECOND FLOOR PLAN - LIGHTING

E124

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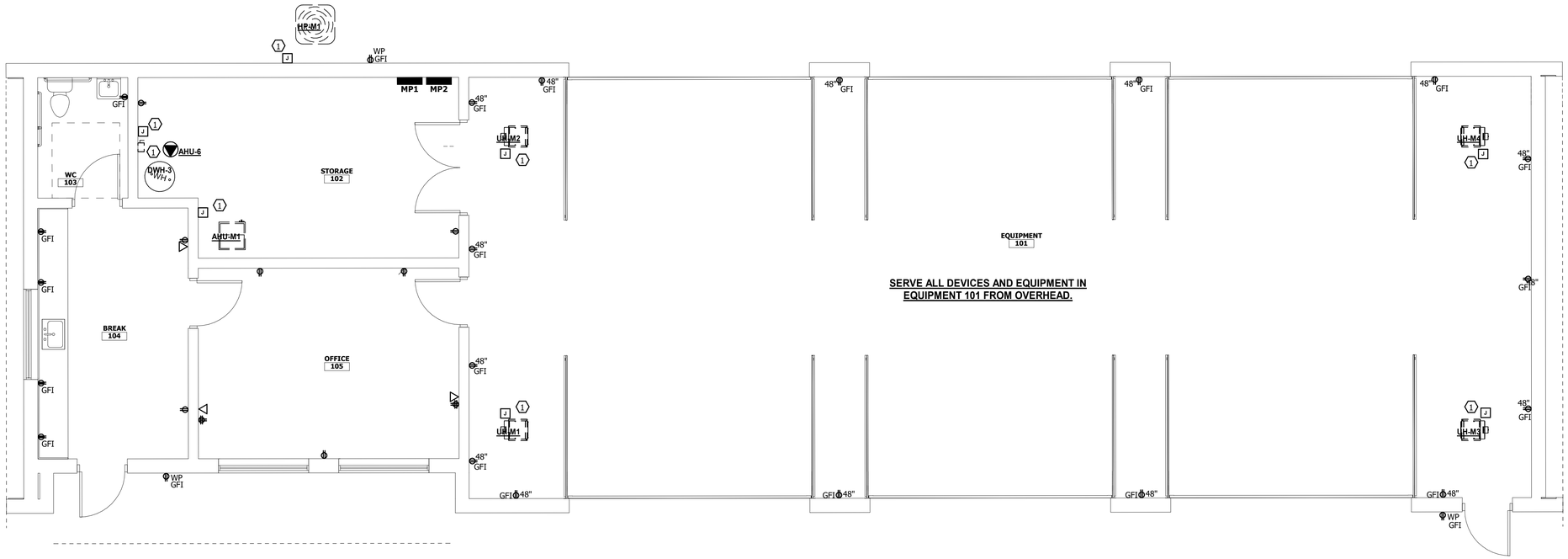
KEY NOTES TO E131

1 PROVIDE POWER CONNECTION TO LINE SIDE OF EQUIPMENT UNIT DISCONNECT PROVIDED BY OTHER TRADES.



1 / E131 **MAINTENANCE FLOOR PLAN - POWER**
SCALE: 1/4" = 1'-0"

4' 0 4' 8' 12' 16' 20'

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MAINTENANCE FLOOR PLAN - POWER

E131

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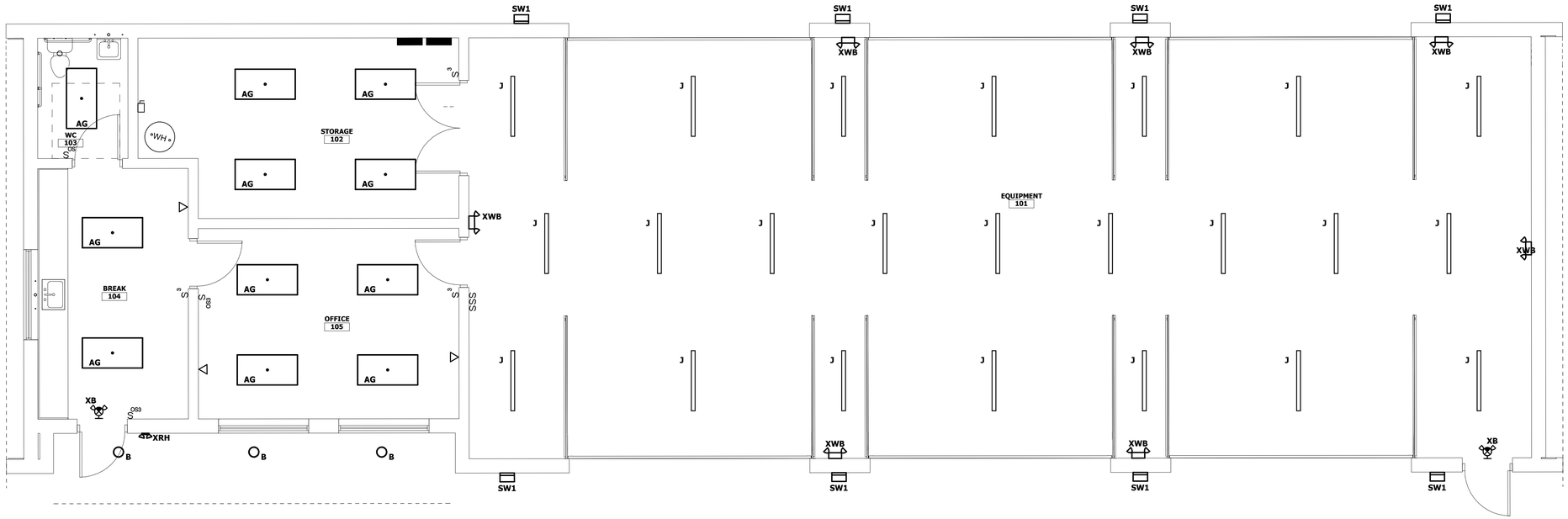

1 E132 **MAINTENANCE FLOOR PLAN - LIGHTING**
SCALE: 1/4" = 1'-0"

4' 0 4' 8' 12' 16' 20'

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MAINTENANCE FLOOR PLAN - LIGHTING

E132

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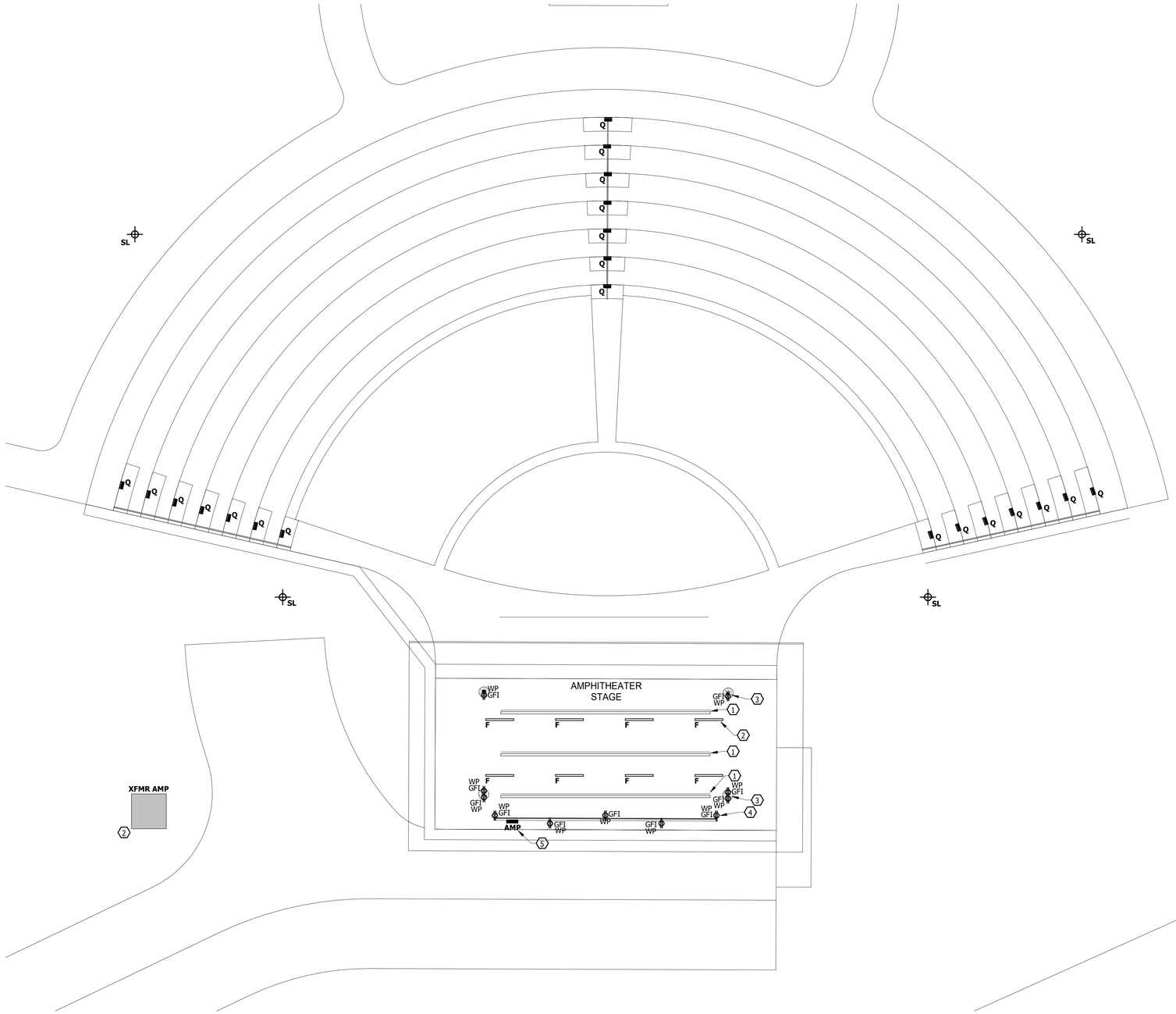

1 E141 **AMPHITHEATER PLAN**
SCALE: 1/8" = 1'-0"

4' 0 4' 8' 12' 16' 20'

KEY NOTES TO E141

1 STAGE LIGHTING PIPE BATTON AND LIGHTING CONNECTOR STRIP LOCATED AT CANOPY STRUCTURE ABOVE.

2 OVERHEAD HOUSE LIGHTS MOUNTED ON STRUCTURE.

3 120V RECEPTACLES MOUNTED ON COLUMN.

4 120V RECEPTACLES MOUNTED ON SCREEN.

5 PANELMOUNTED ON PIPE RACK.

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AMPHITHEATER PLAN - POWER AND LIGHTING

E141

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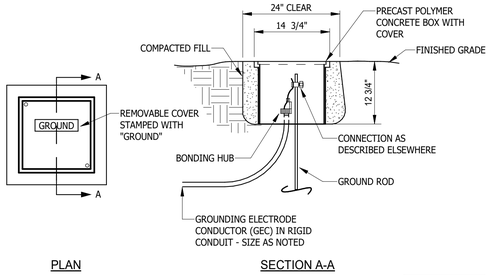
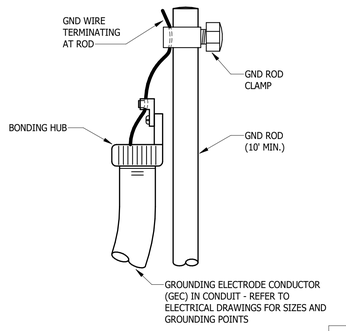


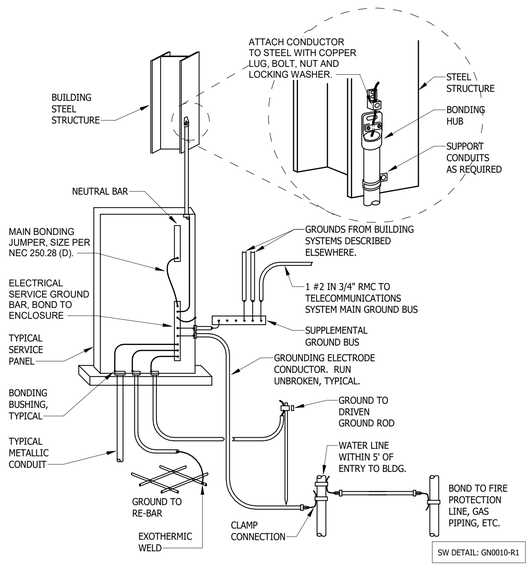
7 E301 **GROUND ROD ENCLOSURE**
SCALE: NTS

WARNING

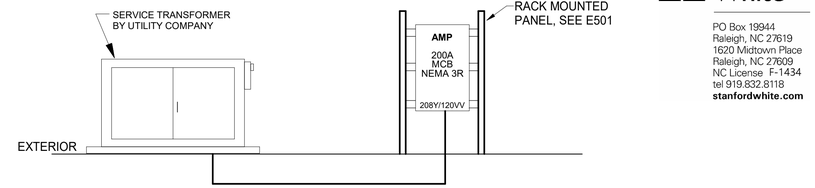
1. FIELD VERIFY EXACT LOCATION OF ALL UNDERGROUND UTILITIES BEFORE DRIVING GROUND RODS.
2. DO NOT USE POWER ASSISTED TOOLS TO DRIVE GROUND RODS.



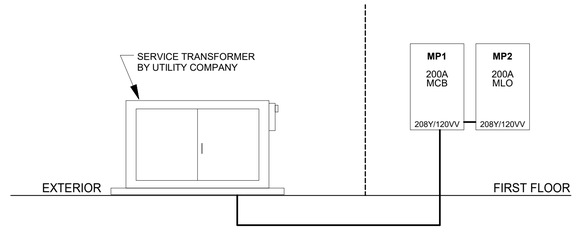
6 E301 **GROUND ROD CONNECTIONS**
SCALE: NTS



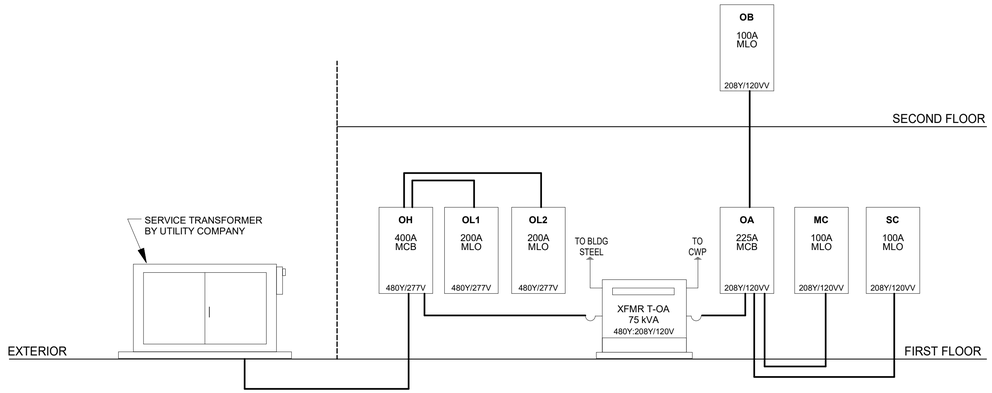
5 E301 **SERVICE GROUNDING AND BONDING**
SCALE: NTS



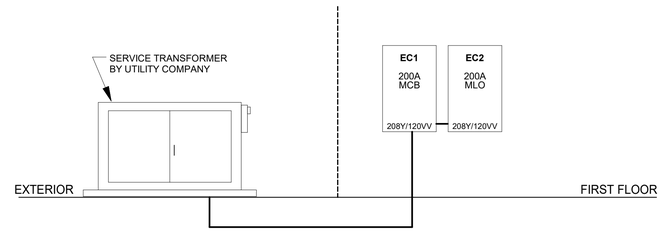
4 E301 **POWER RISER - AMPHITHEATER**
SCALE: NTS



3 E301 **POWER RISER - MAINTENANCE BUILDING**
SCALE: NTS



2 E301 **POWER RISER - OCTAGON**
SCALE: NTS



1 E301 **POWER RISER - EVENT CENTER**
SCALE: NTS

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ELECTRICAL DISTRIBUTION SYSTEM
E301

LIGHTING FIXTURE SCHEDULE

TYPE MARK	DESCRIPTION	LUMENS	MOUNTING	VOLTAGE	WATTAGE	CONTROL	FIXTURE MEETING SPECIFICATION	COMMENTS	IMAGE
A	2X4 LAY-IN LED TROFFER WITH ACRYLIC CENTER LENS WITH INTEGRAL LINEAR PRISMS	4990	RECESSED, GRID LAY-IN	277	39 VA	0-10V	COLUMBIA LCAT24 LITHONIA DAY-BRITE CREE LSI INDUSTRIES	CURVED SHIELDING	
AG	2X4 LAY-IN LED TROFFER WITH ACRYLIC CENTER LENS WITH INTEGRAL LINEAR PRISMS	4990	RECESSED, GRID LAY-IN	277	39 VA	0-10V	COLUMBIA LCAT24 LITHONIA DAY-BRITE CREE LSI INDUSTRIES	CURVED SHIELDING	
B	6" RECESSED DOWNLIGHT	2000	RECESSED	277	23 VA	0-10 V	LITHONIA LDN6 PRESCOLITE LIGHTOLIER CREE LIGHTING LSI INDUSTRIES	CLEAR DIFFUSE	
C	SPUN ALUMINUM PENDANT	2000	PENDANT	277		0-10V	ARCHITECTURAL LIGHTING WORKS MLDP-D-V-D-20-83-40-11CD-AW-AW-CC21 PRESCOLITE SIGNIFY	FINISH AS SELECTED BY ARCHITECT	
D	ARCHITECTURAL LINEAR NARROW APERTURE LED						MARK LIGHTING ALW FOCAL POINT		
F	LED LINEAR STRIP	4000	SURFACE	MVOLT	28W	0-10V	LITHONIA CSS COLUMBIA DAY-BRITE CREE LSI INDUSTRIES	SURFACE/PENDANT MOUNT AS INDICATED ON PLANS	
G	ARCHITECTURAL LINEAR LED DOWNLIGHT						MARK LIGHTING ALW FOCAL POINT		
H	RECESSED NARROW APERTURE LINEAR LED		RECESSED, WALL MOUNT	277			MARK LIGHTING SLOT2 ARCHITECTURAL LIGHTING WORKS LEDALITE		
J	LED LINEAR STRIP						LITHONIA CSS COLUMBIA DAY-BRITE CREE LSI INDUSTRIES		
K	WALL BRACKET, SURFACE MOUNT LED	4000	SURFACE	MVOLT	40W	0-10V	LITHONIA WL4 40L EZ1 LP840 DIM50 COLUMBIA DAY-BRITE CREE LSI INDUSTRIES	FIXTURE DIMS TO APPROXIMATELY 50% LIGHT OUTPUT WHEN UNOCCUPIED	
Q	EXTERIOR STEP LIGHT	342	RECESSED, WALL	277	8 VA	0-10V	BEGA 33 054 K3S SLV	SILVER FINISH	
R	LED TAPE ACCENT LIGHT	299	EXTERIOR, EXTRUSION	120	6 VA	REMOTE TRANSFORMER - DIMMABLE	JUNO #UPLED14 30K 90CRI WH NS COLUMBIA DAY-BRITE VISIONEERING THOMAS		

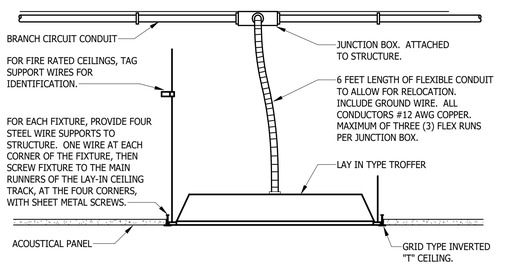
LIGHTING FIXTURE SCHEDULE

TYPE MARK	DESCRIPTION	LUMENS	MOUNTING	VOLTAGE	WATTAGE	CONTROL	FIXTURE MEETING SPECIFICATION	COMMENTS	IMAGE
SB	EXTERIOR BOLLARD	2003	EXTERIOR, SURFACE	120	22		KIM LIGHTING #PA7R FT CH 5		
SL	PEDESTRIAN SCALE POST LIGHT		EXTERIOR - POLE	120	55		TO BE DETERMINED	COLOR AS SELECTED BY ARCHITECT.	
SP	COMPACT LED EXTERIOR FLOOD LIGHT	1120	SURFACE, EXTERIOR	120	12 VA	5% DIMMING	ECOSENSE LIGHTING #F080 1R HO 40 80 40 TARGETTI ACCLAIM ACDC HEVI LITE	COLOR AS SELECTED BY OWNER	
SW1	ARCHITECTURAL WALL SCONCE	3000	SURFACE	MVOLT	23W	PHOTOCELL	LITHONIA WDGE2 P3 40K 80CRI VF MVOLT GARDCO SIGNIFY	COLOR AS SELECTED BY ARCHITECT	
XB	THERMOPLASTIC EXIT SIGN WITH EMERGENCY LIGHTING HEADS		WALL		5 VA		LITHONIA #LHQM-R-HO DUAL-LITE CHLORIDE BEGHELLI MULE		
XC	THERMOPLASTIC EXIT SIGN		CEILING		5 VA		LITHONIA #LHQM-R-HO RO DUAL-LITE CHLORIDE BEGHELLI MULE		
XRH	REMOTE LED EMERGENCY LIGHTING UNIT	550	SURFACE	120	5		LITHONIA #ELMRE SP1100L T DUAL-LITE CHLORIDE BEGHELLI MULE		
XWB	WALL MOUNT EMERGENCY LIGHTING UNIT	1100	WALL		5 VA		LITHONIA #ELM6L UVOLT LTP HO DUAL-LITE CHLORIDE BEGHELLI MULE		

FIXTURE SCHEDULE NOTES:

1. THIS FIXTURE SCHEDULE IDENTIFIES A FIXTURE THAT MEETS THE SPECIFIED PERFORMANCE REQUIREMENTS AND A LEVEL OF QUALITY REQUIRED FOR THE PROJECT. **MANUFACTURER'S NAMES AND FIXTURE SERIES/MODELS IN SCHEDULE ARE NOT A BRAND NAME SPECIFICATION.** EQUIVALENT FIXTURES BY MANUFACTURERS OTHER THAN THOSE LISTED MAY BE SUBMITTED FOR THIS PROJECT.
2. PROVIDE LED DRIVERS SUITABLE FOR FULL RANGE DIMMING, INTEGRAL SURGE PROTECTION, CURRENT TOTAL HARMONIC DISTORTION (THD) OF <20% AND A POWER FACTOR >0.90. IN ADDITION, DRIVERS MUST BE RF SUPPRESSED FOR MINIMUM INJECTION OF FEEDBACK INTO SUPPLY LINES. MAXIMUM CURRENT THD AND MINIMUM POWER FACTOR MUST BE SUBMITTED AS A PART OF THE FIXTURE SUBMITTAL DATA.
3. UNLESS OTHERWISE INDICATED, PROVIDE SINGLE DRIVER PER FIXTURE.
4. PROVIDE MOUNTING FRAME AND RELATED ACCESSORIES FOR ALL FIXTURES AS REQUIRED TO MATCH CEILING CONSTRUCTION. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT CEILING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR MODIFICATION OF FIXTURE SCHEDULE MANUFACTURER'S PART NUMBERS FOR PURPOSES OF MATCHING CEILING CONSTRUCTION.
5. PROVIDE DIMMING DRIVERS WHERE DIMMING CONTROLS ARE INDICATED ON THE PLANS.
6. ALL FIXTURES TO HAVE A COLOR TEMPERATURE OF 4000K UNLESS NOTED OTHERWISE.
7. UNLESS NOTED OTHERWISE, ALL FIXTURES SHALL INCLUDE INTEGRAL DRIVER.
8. ALL FIXTURES SHALL BE UL OR THIRD PARTY LISTED AS COMPLETE ASSEMBLY.
9. FOR LIGHT FIXTURES HAVING LINEAR VISUAL FEATURES (IE: CENTER BASKET, LOUVERS, ETC), COORDINATE AND ALIGN COMPONENTS IN A SIMILAR DIRECTION CONSISTENTLY ACROSS THE BUILDING SPACES.

SW DETAIL: IN0011 LED



SW DETAIL: GE0013

1 E401 **LIGHTING FIXTURE MOUNTING DETAIL**
SCALE: NTS

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LIGHTING FIXTURE SCHEDULE
E401

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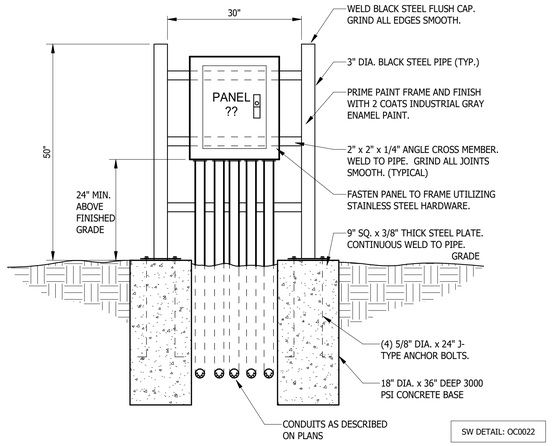


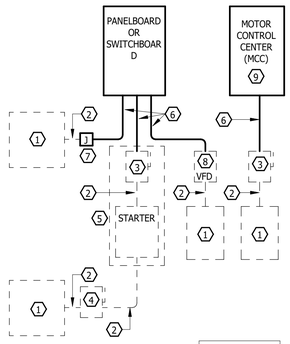
SW DETAIL: OC0022

9 E501 PANEL RACK DETAIL

SCALE: NTS

KEYED NOTES :

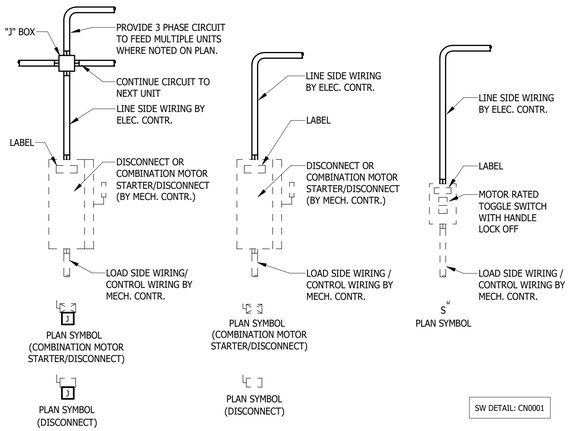
1. EQUIPMENT PROVIDED AND INSTALLED BY OTHER CONTRACTOR. CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS, START UP AND TEST EQUIPMENT.
2. CONDUIT & WIRING BY OTHER CONTRACTOR PROVIDING EQUIPMENT.
3. DISCONNECT PROVIDED AND INSTALLED BY CONTRACTOR PROVIDING EQUIPMENT.
4. IF AN ADDITIONAL DISCONNECT IS REQUIRED BY NEC, IT SHALL BE PROVIDED AND INSTALLED BY CONTRACTOR PROVIDING EQUIPMENT.
5. A COMBINATION STARTER MAY BE USED IN LIEU OF A SEPARATE DISCONNECT SWITCH AND STARTER. A COMBINATION STARTER SHALL BE PROVIDED AND INSTALLED BY THE OTHER CONTRACTOR PROVIDING THE EQUIPMENT.
6. FEEDER AND CONDUIT BY ELECTRICAL CONTRACTOR. SEE PANELBOARD SCHEDULES FOR WIRE AND BREAKER SIZES TO OTHER EQUIPMENT. TERMINATE FEEDER AT LINE SIDE OF DISCONNECTING MEANS.
7. JUNCTION BOX MAY BE SHOWN ON ELECTRICAL PLANS FOR SOME EQUIPMENT IF NO STARTER IS REQUIRED. INSTALL JUNCTION BOX ADJACENT TO THE EQUIPMENT AND PROVIDE LINE SIDE WIRING TO THE JUNCTION BOX. MOTOR RATED DISCONNECT SHALL BE PROVIDED BY CONTRACTOR PROVIDING EQUIPMENT WHERE REQUIRED BY CODE.
8. VARIABLE FREQUENCY DRIVE (VFD) PROVIDED AND INSTALLED BY OTHER CONTRACTOR PROVIDING EQUIPMENT. VFD IS SUPPLIED WITH INTEGRAL DISCONNECTING MEANS.
9. FOR PROJECTS UTILIZING A MOTOR CONTROL CENTER (MCC), THE STARTER, CIRCUIT BREAKER OR VFD IN THE MCC ARE PROVIDED BY THE ELECTRICAL CONTRACTOR.



SW DETAIL: CN0002

8 E501 MECHANICAL UNIT WIRING DETAILS

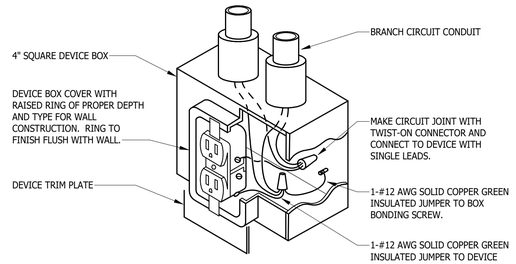
SCALE: NTS



SW DETAIL: CN0001

7 E501 MECHANICAL UNIT WIRING DETAILS

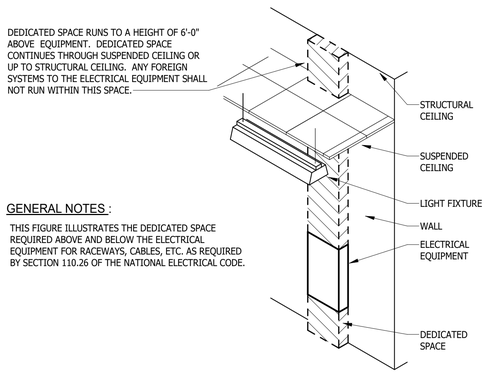
SCALE: NTS



SW DETAIL: GE0033

6 E501 RECEPTACLE GROUNDING DETAIL

SCALE: NTS



GENERAL NOTES :

1. THIS FIGURE ILLUSTRATES THE DEDICATED SPACE REQUIRED ABOVE AND BELOW THE ELECTRICAL EQUIPMENT FOR RACEWAYS, CABLES, ETC. AS REQUIRED BY SECTION 110.26 OF THE NATIONAL ELECTRICAL CODE.

SW DETAIL: GE0030

5 E501 DEDICATED SPACE FOR ELECTRICAL EQUIPMENT

SCALE: NTS

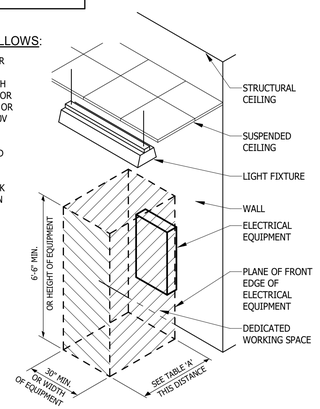
TABLE A - WORKING CLEARANCES			
NOMINAL VOLTAGE TO GROUND	MINIMUM CLEAR DISTANCE (FEET)		
	CONDITION 1	CONDITION 2	CONDITION 3
0-150	3	3	3
151-600	3	3 1/2	4

WHERE THE CONDITIONS ARE AS FOLLOWS:

1. EXPOSED LIVE PARTS ON ONE SIDE AND NO LIVE OR UNGROUNDED PARTS ON THE OTHER SIDE OF THE WORKING SPACE, OR EXPOSED LIVE PARTS ON BOTH SIDES EFFECTIVELY GUARDED BY SUITABLE WOOD OR OTHER INSULATING MATERIALS. INSULATED WIRE OR INSULATED BUSBARS OPERATING AT NOT OVER 300V SHALL NOT BE CONSIDERED LIVE PARTS.
2. EXPOSED LIVE PARTS ON ONE SIDE AND GROUNDED PARTS ON THE OTHER SIDE.
3. EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORK SPACE (NOT GUARDED AS PROVIDED IN CONDITION 1) WITH THE OPERATOR BETWEEN.

GENERAL NOTES :

1. THIS FIGURE ILLUSTRATES THE WORKING SPACE IN FRONT OF ELECTRICAL EQUIPMENT AS REQUIRED BY SECTION 110.26 OF THE NATIONAL ELECTRICAL CODE.



SW DETAIL: GE0029

4 E501 WORKING CLEARANCES FOR ELECTRICAL EQUIPMENT

SCALE: NTS

GENERAL NOTES :

1. INSTALL NEW LABELS ON ALL PROJECT EQUIPMENT (PANELBOARDS, ENCLOSED BREAKERS, DISCONNECTS, TRANSFORMERS).
2. CONSTRUCT LABELS FROM 2 COLOR PLASTIC LAMINATE. DIMENSIONS ARE 5" WIDE X 1 1/2" HIGH. TEXT HEIGHT IS 3/16", EXCEPT AS NOTED OTHERWISE.
3. LABEL COLORS ARE TO BE SELECTED FROM THE FOLLOWING CHOICES:

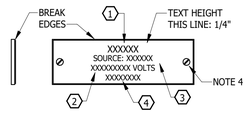
   NORMAL SYSTEM: BLACK BACKGROUND/WHITE LETTERS
4. SECURE TO TOP CENTER OF EQUIPMENT COVER WITH #4-40 STAINLESS STEEL SCREWS WITH MATCHING NUTS AND LOCKWASHERS. USE OF ADHESIVES TO SECURE LABEL TO EQUIPMENT IS NOT ACCEPTABLE.

KEYED NOTES :

1. INSERT EQUIPMENT DESIGNATION WHERE X'S ARE INDICATED.
2. INSERT VOLTAGE WHERE X'S ARE INDICATED. POSSIBLE VOLTAGES ARE:

   "480Y/277"
   "208Y/120"
   "480: 208Y/120"
3. INSERT SUPPLY SOURCE DESIGNATION HERE.
4. INSERT SUPPLY SYSTEM WHERE X'S ARE INDICATED POSSIBLE CHOICES ARE:

   "NORMAL POWER"



SW DETAIL: LA0003 R1

3 E501 EQUIPMENT LABEL

SCALE: NTS

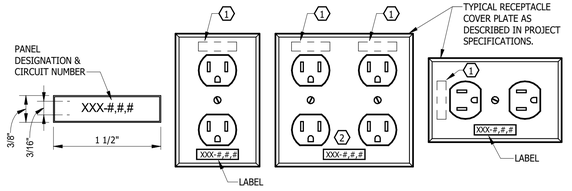


FIG. 1 - LABEL DIMENSIONS

FIG. 2 - LABEL LOCATION ON DEVICE PLATE

GENERAL NOTES :

1. LABELS ARE TO BE MACHINE PRODUCED USING A THERMAL TRANSFER PROCESS WITH DIMENSIONS AS SHOWN ABOVE. LABELS ARE TO BE SUITABLE FOR EITHER INDOOR OR OUTDOOR USE.
2. LABEL COLOR TO BE CLEAR WITH BLACK LETTERING.
3. LABELS ARE TO BE ATTACHED AS INDICATED ABOVE TO ALL PROJECT RECEPTACLE COVER PLATES.

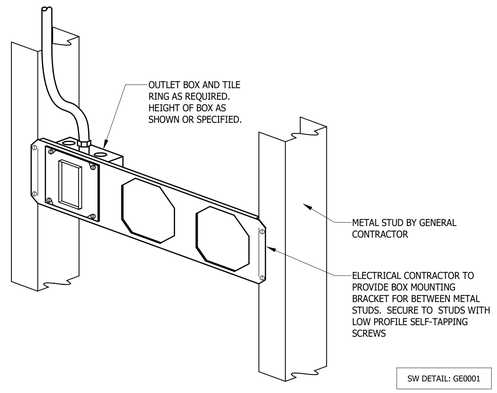
KEYED NOTES :

1. WRITE PANEL DESIGNATION NUMBER ON DEVICE YOKE WITH A FINE TIP, PERMANENT MARKER AS AN AID TO PROPER FACEPLATE LOCATION. ALL MARKING ON DEVICES MUST BE COVERED BY FACEPLATE.
2. FOR DUPLEX RECEPTACLES CENTER LABEL IF BOTH DEVICES ARE SUPPLIED BY THE SAME CIRCUIT. IF DEVICES ARE SUPPLIED BY DIFFERENT CIRCUITS PROVIDE A LABEL BELOW EACH RECEPTACLE.

SW DETAIL: LA0002

2 E501 DEVICE LABELS

SCALE: NTS



SW DETAIL: GE0001

1 E501 OUTLET BOX SUPPORT

SCALE: NTS

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

5/28/2021 1:42:59 PM

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REVIEW DRAWING
DO NOT USE FOR CONSTRUCTION
SEAL 039503 ENGINEER MATTHEW J. JOHNSON

1 REVISIONS

PLAN INFORMATION

PROJECT NO.	202011039
FILENAME	TORLRPMP_CENTRAL_2020
CHECKED BY	MJJ
DRAWN BY	DDS
SCALE	SEE VIEW
DATE	05. 28. 2021

SHEET

ELECTRICAL DETAILS

E501

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SW Project No:0651-01-00-20

DESIGN CRITERIA

BUILDING CODES: 2018 NORTH CAROLINA STATE BUILDING CODE
ASCE 7-10 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES

RISK CATEGORY: II

DESIGN LIVE LOADS:

	UNIFORM	CONCENTRATED
PUBLIC AREAS/LOBBIES	100 PSF	2,000 LBS
OCTAGON 2ND FLOOR	60 PSF	N/A
STAIRS	100 PSF	300 LBS
STORAGE	125 PSF	N/A
ROOF	20 PSF	300 LBS

*ALL LIVE LOADS ARE REDUCED BASED ON TRIBUTARY AREA AS ALLOWED BY THE BUILDING CODES.

SNOW LOAD:

GROUND SNOW LOAD, PG	15 PSF
IMPORTANCE FACTOR, IS	1.0
SNOW EXPOSURE FACTOR, CE	1.0
THERMAL FACTOR, CT	1.0
FLAT ROOF SNOW LOAD, PF	15 PSF

WIND LOAD:

BASIC WIND SPEED (3 SECOND GUST)	115 MPH
EXPOSURE CATEGORY	B
ENCLOSURE CLASSIFICATION	ENCLOSED
INTERNAL PRESSURE COEFFICIENT, GCPI	±0.18
TOPOGRAPHY FACTOR, KZT	1.00
APPLIED DIRECTIONALITY FACTOR, KD	0.85
WIND BASE SHEAR (X DIRECTION)	TBD
WIND BASE SHEAR (Y DIRECTION)	TBD

**ALL BUILDING COMPONENTS AND CLADDING WITH STRUCTURAL DESIGN DELEGATED TO THE CONTRACTOR/MANUFACTURER/SUPPLIER ARE REQUIRED TO BE DESIGNED FOR WIND LOADS DETERMINED USING THE ABOVE DESIGN CRITERIA IN ACCORDANCE WITH THE GOVERNING BUILDING CODE(S).

SEISMIC LOAD:

USGS DESIGN MAP	ASCE 7-10
DESIGN METHOD	EQUIVALENT LATERAL FORCE
IMPORTANCE FACTOR, IE	1.0
SITE CLASS	C (ASSUMED)
MAPPED SPECTRAL RESPONSE ACCEL. SS	14.3%G
MAPPED SPECTRAL RESPONSE ACCEL.S1	7.2%G
SPECTRAL RESPONSE COEFFICIENT, SDS	15.2%G
SPECTRAL RESPONSE COEFFICIENT, SD1	11.5%G
SEISMIC DESIGN CATEGORY	B
SEISMIC FORCE RESISTING SYSTEM	STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE

EVENT CENTER

RESPONSE MODIFICATION COEFFICIENT, RX	6.5
RESPONSE MODIFICATION COEFFICIENT, RY	6.5
SEISMIC RESPONSE COEFFICIENT, CS	0.023
DEFLECTION AMPLIFICATION FACTOR, CDX	6.5
DEFLECTION AMPLIFICATION FACTOR, CDY	6.5

MAINTENANCE BUILDING

RESPONSE MODIFICATION COEFFICIENT, RX	1.5
RESPONSE MODIFICATION COEFFICIENT, RY	1.5
SEISMIC RESPONSE COEFFICIENT, CS	0.1
DEFLECTION AMPLIFICATION FACTOR, CDX	1.5
DEFLECTION AMPLIFICATION FACTOR, CDY	1.5

OCTAGON

RESPONSE MODIFICATION COEFFICIENT, RX	2
RESPONSE MODIFICATION COEFFICIENT, RY	2
SEISMIC RESPONSE COEFFICIENT, CS	0.076
DEFLECTION AMPLIFICATION FACTOR, CDX	2
DEFLECTION AMPLIFICATION FACTOR, CDY	2

AMPHITHEATER

RESPONSE MODIFICATION COEFFICIENT, RX	1.25
RESPONSE MODIFICATION COEFFICIENT, RY	1.25
SEISMIC RESPONSE COEFFICIENT, CS	0.12
DEFLECTION AMPLIFICATION FACTOR, CDX	1.25
DEFLECTION AMPLIFICATION FACTOR, CDY	1.25

SEISMIC BASE SHEAR (X DIRECTION)	TBD
SEISMIC BASE SHEAR (Y DIRECTION)	TBD

***ALL BUILDING COMPONENTS AND CLADDING WITH STRUCTURAL DESIGN DELEGATED TO THE CONTRACTOR/MANUFACTURER/SUPPLIER ARE REQUIRED TO BE DESIGNED FOR SEISMIC LOADS DETERMINED USING THE ABOVE DESIGN CRITERIA IN ACCORDANCE WITH THE GOVERNING BUILDING CODE(S).

FUTURE LOADS: UNLESS SPECIFICALLY INDICATED ON THE STRUCTURAL DESIGN DRAWINGS THERE HAVE BEEN NO DESIGN PROVISIONS MADE TO ACCOMMODATE FUTURE LOADS OR TO ACCOMMODATE FUTURE ADDITIONS TO THE STRUCTURE.

GEOTECHNICAL
INFO: FOUNDATION DESIGN IS BASED ON THE PRESUMPTIVE ALLOWABLE BEARING CAPACITY OF 3,000PSF TO BE CONFIRMED IN LATERDESIGN PHASES BY PROJECT GEOTECHNICAL ENGINEER.

GENERAL

G-01 THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF THE STRUCTURAL WORK WITH CIVIL, LANDSCAPE ARCHITECTURAL, ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DOCUMENTS AS WELL AS ANY OTHER APPLICABLE TRADES. THE CONTRACTOR IS TO NOTIFY THE DESIGN TEAM OF ANY IDENTIFIED DISCREPANCIES PRIOR TO THE START OF CONSTRUCTION.

G-02 THE STRUCTURAL CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE AND EXCEPT WHERE SPECIFICALLY SHOWN DO NOT INDICATE THE MEANS OR METHODS OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCE, AND PROCEDURES.

G-03 THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE AND FOR APPLICATION OF CONSTRUCTION LOADS TO THE STRUCTURE UNTIL THE CONSTRUCTION OF THE STRUCTURE IS COMPLETE. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN, INSTALLATION AND REMOVAL OF ALL TEMPORARY BRACING, FORMWORK, SUPPORTS, AND SHORING REQUIRED TO STABILIZE THE STRUCTURE DURING CONSTRUCTION. THE CONTRACTOR IS TO UTILIZE A THIRD PARTY STRUCTURAL ENGINEER TO PROVIDE THE DESIGN AND DOCUMENTATION FOR TEMPORARY BRACING, FORMWORK, SUPPORTS AND SHORING AS REQUIRED BY THE PROJECT SPECIFICATIONS.

G-04 THE CONTRACTOR IS TO VERIFY ALL EXISTING SITE GRADING CONDITIONS, EXISTING UTILITIES AND EXISTING BUILDING DIMENSIONS AND CONDITIONS AS THEY APPLY TO THE NEW STRUCTURAL CONSTRUCTION. THE CONTRACTOR IS TO NOTIFY THE DESIGN TEAM OF ANY IDENTIFIED DISCREPANCIES PRIOR TO THE START OF CONSTRUCTION.

G-05 THE CONTRACTOR IS TO PROTECT ALL EXISTING AND NEW UTILITIES, STRUCTURES, AND FACILITIES FROM DAMAGE DURING CONSTRUCTION.

G-06 ANY WORK NOT IN CONFORMANCE WITH THE STRUCTURAL CONTRACT DOCUMENTS OR THE APPLICABLE BUILDING CODE(S) WILL BE CORRECTED BY THE CONTRACTOR IN A MANNER ACCEPTABLE TO THE STRUCTURAL ENGINEER OF RECORD.

G-07 SECTIONS, DETAILS AND NOTES APPLY TO ALL LIKE OR SIMILAR CONDITIONS.

G-08 DO NOT SCALE STRUCTURAL DRAWINGS TO OBTAIN DIMENSIONAL INFORMATION. THE CONTRACTOR IS TO REQUEST ANY DIMENSIONAL INFORMATION REQUIRED.

G-09 THE STRUCTURAL PLANS DO NOT SHOW EVERY OPENING OR PENETRATION REQUIRED THROUGH STRUCTURAL ELEMENTS. THE CONTRACTOR IS TO VERIFY ALL OPENING SIZES AND LOCATIONS WITH OTHER DISCIPLINES, TRADES AND SHOP DRAWINGS. OPENINGS ARE TO BE CONSTRUCTED USING TYPICAL DETAILS AND CRITERIA PROVIDED ON THE STRUCTURAL DRAWINGS. OPENINGS REQUIRED THAT CANNOT CONFORM TO THE TYPICAL DETAILS OR CRITERIA PROVIDED ON THE STRUCTURAL DRAWINGS ARE TO BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW.

CONCRETE AND REINFORCING STEEL

C-01 CONCRETE TO MEET THE FOLLOWING 28 DAY COMPRESSIVE STRENGTHS (F'C):

INTERIOR SLABS ON GRADE	3,000 PSI, NORMAL WEIGHT
EXTERIOR SLAB ON GRADE	4,500 PSI, NORMAL WEIGHT W/ 5% AIR CONTENT
FOOTINGS	3,000 PSI, NORMAL WEIGHT
FOUNDATION WALLS, BASEMENT WALLS, SITE RETAINING WALLS	4,000 PSI, NORMAL WEIGHT
GROUT	5,000 PSI, NON-SHRINK, NON-METALLIC

C-02 PROVIDE CLEAR COVER ON REINFORCING STEEL PER ACI 318 AND AS INDICATED BELOW:
CONVENTIONALLY REINFORCED CONCRETE

CONCRETE CAST AGAINST AND EXPOSED TO EARTH	3"
CONCRETE EXPOSED TO EARTH AND WEATHER*	2" FOR BARS #6 AND LARGER 1 ½" FOR BARS SMALLER THAN #6
CONCRETE NOT EXPOSED TO EARTH AND WEATHER	¾" FOR SLABS AND WALLS

*NOTE: 'EXPOSED TO WEATHER' INCLUDES CONCRETE SURFACES PERMANENTLY EXPOSED TO THE ELEMENTS. CONCRETE SURFACES SUCH AS ROOF SLABS THAT ARE COVERED WITH PROTECTIVE SYSTEMS ARE NOT CONSIDERED TO BE EXPOSED TO WEATHER.

C-03 DETAIL, FABRICATE AND INSTALL ALL REINFORCING STEEL PER STRUCTURAL CONTRACT DOCUMENTS, ACI-318 AND ACI-315.

C-04 DO NOT WELD REINFORCING STEEL UNLESS SPECIFICALLY INDICATED ON STRUCTURAL CONTRACT DOCUMENTS.

C-05 EMBEDDED ITEMS SUCH AS ANCHOR BOLTS, REINFORCING STEEL DOWELS, AND EMBED PLATES ARE TO BE SET AND SECURED IN PLACE PRIOR TO THE PLACEMENT OF CONCRETE. 'WET SETTING' OF EMBEDDED ITEMS IS NOT ACCEPTABLE.

C-06 CLAY BRICK, ROCKS, WOOD, OR CMU BRICK ARE NOT TO BE USED TO SUPPORT REINFORCING STEEL IN FOOTINGS, PILE CAPS, GRADE BEAMS, OR SLABS ON GRADE.

C-07 EXTEND ALL WALL FOOTING REINFORCING STEEL CONTINUOUSLY THROUGH ADJACENT COLUMN FOOTINGS.

C-08 DOWELS EXTENDING FROM CONCRETE ELEMENTS SHOULD MATCH THE SIZE AND SPACING OF MAIN REINFORCING STEEL WHEN NOT SPECIFICALLY NOTED OTHERWISE. REQUIRED LAP LENGTHS FOR DOWELS AND MAIN REINFORCING STEEL IS TO BE PROVIDED PER THE TYPICAL SCHEDULES PROVIDED ON THE STRUCTURAL DRAWINGS.

C-09 LOCATE LAPS IN REINFORCING STEEL AS FOLLOWS, UNLESS SPECIFICALLY NOTED OTHERWISE:
CONTINUOUS FOOTINGS - AT CONTRACTOR'S PREFERENCE
WALL HORIZONTAL REINFORCING – AT CONTRACTOR'S PREFERENCE
WALL VERTICAL REINFORCING – AS INDICATED ON SECTIONS AND DETAILS
GRADE BEAM TOP REINFORCING – REFER TO TYPICAL GRADE BEAM DETAIL
ELEVATED BEAMS AND JOISTS – REFER TO TYPICAL ELEVATED BEAM/JOIST DETAIL(S)
ELEVATED SLABS - REFER TO TYPICAL ELEVATED SLAB DETAIL(S)

C-10 FOLLOW STRUCTURAL DRAWINGS FOR ACCEPTABLE INSTALLATION OF PLUMBING, ELECTRICAL, TELECOMMUNICATION, MECHANICAL OR OTHER UTILITY LINES AND CONDUIT THROUGH AND WITHIN CONCRETE ELEMENTS. THE CONTRACTOR IS TO NOTIFY THE DESIGN TEAM OF ANY CONDITIONS THAT DO NOT COMPLY WITH DETAILS SHOWN ON THE STRUCTURAL DRAWINGS.

C-11 HORIZONTAL CONSTRUCTION JOINTS IN CONCRETE ELEMENTS ARE NOT ACCEPTABLE WITHOUT PRIOR APPROVAL OF THE ENGINEER.

C-12 THE CONTRACTOR IS TO PROVIDE VERTICAL CONSTRUCTION JOINTS AS NECESSARY TO ENSURE THE QUALITY AND FINISH OF CONCRETE SATISFIES THE PROJECT SPECIFICATIONS. THE CONTRACTOR'S PROPOSED CONSTRUCTION JOINT LOCATIONS ARE TO BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO CONCRETE PLACEMENT. REFER TO TYPICAL CONSTRUCTION JOINT DETAILS FOR ADDITIONAL REINFORCING, KEYWAYS AND OTHER REQUIREMENTS.

CONCRETE MASONRY (CMU)

M-01 MASONRY ASSEMBLY 28 DAY COMPRESSIVE STRENGTH (F'M):

CONCRETE MASONRY UNIT COMPRESSIVE STRENGTH:	1,500 PSI
MASONRY GROUT, TYPE S, 28 DAY COMPRESSIVE STRENGTH:	1,900 PSI
	2,000 PSI

M-02 DETAIL, FABRICATE AND INSTALL ALL REINFORCING STEEL PER STRUCTURAL CONTRACT DOCUMENTS AND ACI-530.01.

M-03 EMBEDDED ITEMS SUCH AS ANCHOR BOLTS, REINFORCING STEEL DOWELS, AND EMBED PLATES ARE TO BE SET AND SECURED IN PLACE PRIOR TO GROUTING MASONRY UNITS. 'WET SETTING' EMBEDDED ITEMS IS NOT ACCEPTABLE.

M-04 DOWELS EXTENDING FROM CONCRETE ELEMENTS INTO MASONRY SHOULD MATCH THE SIZE AND SPACING OF MAIN REINFORCING STEEL WHEN NOT SPECIFICALLY NOTED OTHERWISE. REQUIRED LAP LENGTHS FOR DOWELS AND MAIN REINFORCING STEEL IS TO BE PROVIDED PER THE TYPICAL SCHEDULES PROVIDED ON THE STRUCTURAL DRAWINGS.

M-05 WALLS, PEDESTALS AND PIERS BELOW GRADE ARE TO HAVE ALL CELLS OF MASONRY UNITS GROUTED SOLID.

M-06 ALL WALLS, PEDESTALS AND PIERS ABOVE GRADE ARE TO HAVE ONLY REINFORCED CELLS OF MASONRY UNITS GROUTED SOLID UNLESS SPECIFICALLY NOTED OTHERWISE ON STRUCTURAL DETAILS.

M-07 FOLLOW STRUCTURAL DRAWINGS FOR ACCEPTABLE INSTALLATION OF PLUMBING, ELECTRICAL, TELECOMMUNICATION, MECHANICAL OR OTHER UTILITY LINES AND CONDUIT THROUGH AND WITHIN CONCRETE MASONRY ELEMENTS. THE CONTRACTOR IS TO NOTIFY THE DESIGN TEAM OF ANY CONDITIONS THAT DO NOT COMPLY WITH DETAILS SHOWN ON THE STRUCTURAL DRAWINGS.

FOUNDATIONS

F-01 FOOTINGS ARE TO BE FOUNDED AT A DEPTH PROVIDING THE DESIGN BEARING CAPACITY AND AT AN ELEVATION WHERE THE TOP OF THE FOOTING IS BELOW THE FROST PENETRATION DEPTH AS DICTATED BY THE BUILDING CODE BUT NO LESS THAN 12" BELOW THE FINAL FINISHED GRADE. THE CONTRACTOR IS TO COMPARE THE TOP OF FOOTING ELEVATIONS INDICATED ON THE STRUCTURAL DRAWINGS WITH THE FINAL GRADE INDICATED ON THE CIVIL/LANDSCAPE ARCHITECTURAL DRAWINGS AND NOTIFY THE DESIGN TEAM OF ANY DISCREPANCIES PRIOR TO THE START OF CONSTRUCTION.

F-02 THE CONTRACTOR IS RESPONSIBLE TO ADEQUATELY PROTECT ALL EXCAVATIONS. WHERE REQUIRED, SHORE THE EXCAVATIONS WITH SYSTEMS DESIGNED AND DETAILED BY THE CONTRACTOR'S ENGINEER.

F-03 UNLESS SPECIFICALLY NOTED ON THE STRUCTURAL DRAWINGS, ALL FOUNDATION WALLS AND BASEMENT WALLS ARE TO BE TEMPORARILY BRACED BY THE CONTRACTOR DURING BACKFILL OPERATIONS AND UNTIL SLABS AT TOP OF WALLS HAVE BEEN INSTALLED AND HAVE REACHED DESIGN STRENGTH OR ARE AT LEAST 7 DAYS OLD.

F-04 FOLLOW STRUCTURAL DRAWINGS FOR ACCEPTABLE INSTALLATION OF PLUMBING, ELECTRICAL, TELECOMMUNICATION, MECHANICAL OR OTHER UTILITY LINES UNDER AND THROUGH FOUNDATION ELEMENTS. THE CONTRACTOR IS TO NOTIFY THE DESIGN TEAM OF ANY CONDITIONS THAT DO NOT COMPLY WITH DETAILS SHOWN ON THE STRUCTURAL DRAWINGS.

POST-INSTALLED ADHESIVE/MECHACANICAL ANCHORS

A-01 POST-INSTALLED ANCHORS ARE TO BE USED ONLY WHERE INDICATED ON THE STRUCTURAL DRAWINGS. THE CONTRACTOR IS TO SUBMIT ANY PROPOSED POST-INSTALLED ANCHORAGE NOT SHOWN ON THE CONTRACT DOCUMENT TO THE ENGINEER FOR REVIEW.

A-02 ALL POST-INSTALLED ANCHORS ARE TO BE INSTALLED AS INDICATED BY THE STRUCTURAL DRAWINGS AND IN STRICT ACCORDANCE WITH THE ANCHOR MANUFACTURER'S INSTRUCTIONS.

A-03 THE BASIS OF DESIGN FOR MECHANICAL ANCHORS ARE THE FOLLOWING PRODUCTS:
HILTI KWIK BOLT TZ; SIMPSON STRONG TIE STRONG-BOLT WEDGE ANCHOR; POWERS POWER-STUD+SD1

A-04 THE BASIS OF DESIGN FOR ADHESIVES/EPOXY ARE THE FOLLOWING PRODUCTS:
HILTI HIT RE 500-SD; SIMPSON STRONG TIE SET-XP; POWERS AC100+GOLD

A-05 THE CONTRACTOR MAY SUBMIT ALTERNATIVE MECHANICAL ANCHORS AND ADHESIVES/EPOXY THAT MEET OR EXCEED THE PROPERTIES AND LOAD CARRYING CAPACITIES OF THE BASIS OF DESIGN PRODUCTS TO THE ENGINEER FOR REVIEW.

A-06 PRIOR TO THE INSTALLATION OF ANY POST-INSTALLED ANCHORS, THE CONTRACTOR IS TO LOCATE ALL REINFORCING STEEL WITHIN STRUCTURAL ELEMENTS USING NON-DESTRUCTIVE METHODS. IF ANCHOR LOCATIONS ARE IN CONFLICT WITH ANY REINFORCING STEEL NOTIFY THE ENGINEER FOR DIRECTION.

STRUCTURAL STEEL

S-01 STEEL PROPERTIES:

W-SHAPES AND CHANNELS:	A992 OR A572 (FY=50 KSI)
ANGLES, BARS, RODS:	A36 (FY=36 KSI)
HOLLOW SECTIONS, HSS:	A500, GRADE B (42 KSI ROUND, 46 KSI RECTANGULAR)
PIPE:	A53, GRADE B, TYPE S (FY=35 KSI)
PLATE:	A36 (FY=36 KSI) AND A572, GRADE 50 (50 KSI) WHERE INDICATED
ANCHOR BOLTS:	F1554, GRADE 36

S-02 DESIGN, DETAIL, FABRICATE AND ERECT STRUCTURAL STEEL PER STRUCTURAL CONTRACT DOCUMENTS AND AISC 360-05 AND AISC 325-05.

S-03 WELD ELECTRODES: E70XX. PERFORM ALL WELDING PER AWS D1.1-4.

S-04 ALL STEEL MEMBER CONNECTIONS ARE TO BE DESIGNED BY THE FABRICATOR'S ENGINEER FOR THE LOADS INDICATED. WHEN SPECIFIC REACTIONS ARE NOT PROVIDED ON PLANS OR BY NOTE, CONNECTIONS ARE TO BE DESIGNED FOR THE MAXIMUM ALLOWABLE UNIFORM LOADS AS DETERMINED BY PART 3 OF THE AISC MANUAL OF STEEL CONSTRUCTION FOR THE SECTION, SPAN AND STRENGTH SPECIFIED.

S-05 UNLESS SPECIFICALLY INDICATED, SPLICED STRUCTURAL STEEL MEMBERS ARE NOT ACCEPTABLE. ALL PROPOSED SPLICES MUST BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION.

S-06 FIELD MODIFICATION OF STRUCTURAL STEEL MEMBERS AND THEIR CONNECTIONS IS PROHIBITED UNLESS THE PROPOSED MODIFICATIONS HAVE BEEN REVIEWED BY THE ENGINEER.

S-07 REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR BLOCK, CLIPS, TABS AND OTHER ATTACHMENTS REQUIRED. SHOW ALL ITEMS ON STRUCTURAL STEEL SHOP DRAWINGS.

S-08 FOLLOW STRUCTURAL DRAWINGS FOR ACCEPTABLE OPENINGS, HOLES AND SPECIAL COPING OF STRUCTURAL STEEL MEMBERS REQUIRED FOR THE INSTALLATION OF PLUMBING, ELECTRICAL, TELECOMMUNICATION, MECHANICAL OR OTHER UTILITY LINES AND CONDUIT THROUGH STEEL MEMBERS. THE CONTRACTOR IS TO NOTIFY THE DESIGN TEAM OF ANY CONDITIONS THAT DO NOT COMPLY WITH DETAILS SHOWN ON THE STRUCTURAL DRAWINGS.

STEEL STAIRS

K-01 UNLESS SPECIFICALLY INDICATED ON THE STRUCTURAL DRAWINGS, THE DESIGN AND DETAILING OF ALL STEEL FRAMED STAIRS IS THE RESPONSIBILITY OF THE STEEL FABRICATOR'S ENGINEER.

K-02 STEEL STAIRS, LANDINGS, RAILINGS AND ALL CONNECTIONS ARE TO BE DESIGNED FOR THE FOLLOWING LOADS:

UNIFORM LIVE LOAD:	100 PSF
TREADS:	300 LB CONCENTRATED LOAD DISTRIBUTED OVER 4 SQUARE INCHES.
RAILINGS:	50 PLF APPLIED IN ANY DIRECTION AT THE TOP OF THE RAILING OR A SINGLE 200 LB POINT LOAD APPLIED IN ANY DIRECTION AT ANY POINT AT THE TOP OF THE RAILING, WHICHEVER GOVERNS THE DESIGN.
INTERMEDIATE RAILING COMPONENTS:	50 LB HORIZONTALLY APPLIED ON AN AREA EQUAL TO 1 SQUARE FOOT ANYWHERE ALONG THE LENGTH OF THE COMPONENT.

WOOD FRAMING

W-01 WOOD PROPERTIES:

STRUCTURAL LUMBER:	SPRUCE PINE FIR NO.2
EVENT CENTER ROOF TRUSSES	SELECT STRUCTURAL
PRESSURE TREATED STRUCTURAL LUMBER:	SOUTHERN YELLOW PINE NO.2
FLOOR SHEATHING:	PLYWOOD OR OSB, 23/32" T&G EXPOSURE 1, PANEL INDEX 48/24
ROOF SHEATHING:	PLYWOOD OR OSB, 19/32" STANDARD C.D. EXPOSURE 1, PANEL INDEX 40/20
LAMINATED VENEER LUMBER (LVL):	FB=2,600 PSI; E=1,900 KSI
PARALLEL STRAND LUMBER (PSL) BEAMS:	FB=2,900 PSI; E=2,000 KSI
COLUMNS:	FB=2,400 PSI; E=1,800 KSI
LAMINATED STRAND LUMBER (LSL):	FB=1,700 PSI; E=1,300 KSI
GLUE LAMINATED LUMBER:	SOUTHERN PINE OR DOUGLAS FIR; FB= 2,400 PSI; E=1,800 KSI; BALANCED LAYUP

W-02 DETAIL, FABRICATE AND INSTALL ALL WOOD FRAMING PER STRUCTURAL CONTRACT DOCUMENTS AND NDS-05.

W-03 ALL WOOD FRAMING NOT SHOWN ON STRUCTURAL DRAWINGS SHALL BE THE MINIMUM SIZE REQUIRED BY THE BUILDING CODE.

W-04 ALL CONVENTIONAL LUMBER IN CONTACT WITH CONCRETE OR MASONRY OR CLOSER THAN 18" TO EARTH IS TO BE PRESSURE TREATED SOUTHERN YELLOW PINE AS INDICATED ABOVE. ALL ENGINEERED WOOD PRODUCTS IN CONTACT WITH CONCRETE OR MASONRY OR CLOSER THAN 18" TO EARTH IS TO BE CHEMICALLY TREATED OR WOLMANIZED TO SATISFY AWPA USE CATEGORY 3 OR 4.

W-05 FOLLOW STRUCTURAL DRAWINGS FOR BLOCKING AND BRIDGING REQUIREMENTS. AS A MINIMUM, PROVIDE SOLID 2x BLOCKING AT ALL RAFTERS AND JOISTS AT THE FOLLOWING LOCATIONS:
ALL BEARING POINTS
MIDSPAN
END OF ALL CANTILEVERED MEMBERS
8'-0" ON CENTER

W-06 FOLLOW STRUCTURAL DRAWINGS FOR ACCEPTABLE OPENINGS, HOLES AND SPECIAL NOTCHING OF STRUCTURAL WOOD FRAMING MEMBERS REQUIRED FOR THE INSTALLATION OF PLUMBING, ELECTRICAL, TELECOMMUNICATION, MECHANICAL OR OTHER UTILITY LINES AND CONDUIT THROUGH WOOD MEMBERS. THE CONTRACTOR IS TO NOTIFY THE DESIGN TEAM OF ANY CONDITIONS THAT DO NOT COMPLY WITH DETAILS SHOWN ON THE STRUCTURAL DRAWINGS.

W-07 REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR BLOCKING, EQUIPMENT SUPPORTS, AND ALL OTHER SECONDARY NON-STRUCTURAL FRAMING REQUIRED.

WOOD PREFABRICATED TRUSSES

T-01 TRUSS DESIGN CRITERIA:

ROOF SUPERIMPOSED DEAD LOAD:	10 PSF ON TOP CHORDS 10 PSF ON BOTTOM CHORDS
ROOF SUPERIMPOSED LIVE LOAD:	AS REQUIRED BY BUILDING CODE AND AS SUMMARIZED ABOVE
ROOF WIND UPLIFT LOADS:	DESIGN FOR WIND LOADS DETERMINED USING THE ABOVE DESIGN CRITERIA IN ACCORDANCE WITH THE BUILDING CODE(S)

DESIGN TRUSSES TO TRANSFER WIND AND SEISMIC DRAG FORCES WHERE INDICATED ON THE STRUCTURAL CONTRACT DOCUMENTS.

FLOOR TRUSS DEFLECTION DUE TO LIVE LOADS:	SPAN/360
ROOF TRUSS DEFLECTION DUE TO LIVE LOADS:	SPAN/240
FLOOR TRUSS DEFLECTION DUE TO TOTAL LOADS:	SPAN/240
ROOF TRUSS DEFLECTION DUE TO TOTAL LOADS:	SPAN/180

T-02 DESIGN, DETAIL, FABRICATE AND ERECT ALL PREFABRICATED WOOD TRUSSES PER THE STRUCTURAL CONTRACT DOCUMENTS AND *ANSI/TPI 1-2014 NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION*.

T-03 THE CONTRACTOR IS TO PROVIDE TEMPORARY TRUSS BRACING AND PERMANENT MEMBER RESTRAINT/BRACING FOR THE TRUSS SYSTEM(S) PER *TPI DSB-89 RECOMMENDED DESIGN SPECIFICATION FOR TEMPORARY BRACING OF METAL PLATE CONNECTED WOOD TRUSSES AND BCSI/BCSI-B3 SUMMARY SHEETS*. THIS INCLUDES BRACING REQUIRED FOR TRUSSES SPANNING 60 FEET OR MORE. SIZE, LOCATION, SPACING, CONNECTION DETAILS FOR ALL BRACING TO BE INDICATED ON THE TRUSS SUPPLIER'S SHOP DRAWINGS.

T-04 THE TRUSS MANUFACTURER'S ENGINEER IS TO SPECIFY THE TYPE OF CONNECTION HARDWARE REQUIRED AT ALL TRUSS TO TRUSS AND TRUSS TO GIRDER TRUSS CONNECTIONS.

ABBREVIATIONS

@	AT	HD	HEADED
&	AND	HORZ	HORIZONTAL
#	NUMBER	INT	INTERIOR
AB	ANCHOR BOLTS	INFO	INFORMATION
ADDL	ADDITIONAL	JT	JOINT
AFF	ABOVE FINISHED FLOOR	K	KIPS
ALT	ALTERNATE	KSI	KIPS PER SQUARE INCH
ARCH	ARCHITECT / ARCHITECTURAL	LBS	POUNDS
BOT	BOTTOM	LLH	LONG LEG HORIZONTAL
BCX	BOTTOM CHORD EXTENSION	LLV	LONG LEG VERTICAL
BLDG	BUILDING	LWC	LIGHTWEIGHT CONCRETE
BOS	BOTTOM OF STEEL	MAX	MAXIMUM
BRG	BEARING	MC	MOMENT CONNECTION
BTWN	BETWEEN	MECH	MECHANICAL
CANT	CANTILEVER	MEP	MECHANICAL, ELECTRICAL, PLUMBING
CJ	CONTROL JOINT	MFR	MANUFACTURER
CL	CENTERLINE	MIN	MINIMUM
CLR	CLEAR	MISC	MISCELLANEOUS
CMU	CONCRETE MASONRY UNIT	MOW	MIDDLE OF WALL
COL	COLUMN	NS	NEAR SIDE
CONC	CONCRETE	NTS	NOT TO SCALE
CONN	CONNECTION	NWC	NORMAL WEIGHT CONCRETE
CONS	CONSTRUCTION	OC	ON CENTER
CONT	CONTINUOUS	OPNG	OPENING
CORD	COORDINATE	OPP	OPPOSITE HAND
CTRD	CENTERED	PAF	POWDER ACTUATED FASTENER
d	PENNY (NAILS)	PARL	PARALLEL
DBA	DEFORMED BAR ANCHOR	PERP	PERPENDICULAR
DET	DETAIL	PL	PLATE
DIA	DIAMETER	PSF	POUNDS PER SQAURE FOOT
DIM	DIMENSION	PSI	POUNDS PER SQAURE INCH
DIST	DISTANCE	PT	PRESSURE TREATED
DN	DOWN	P-T	POST TENSIONED
DWG	DRAWING	REF	REFERENCE
DWL	DOWEL	REIN	REINFORCING
EA	EACH	REQD	REQUIRED
EE	EACH END	SCH	SCHEDULE
EF	EACH FACE	SIM	SIMILAR
EJ	EXPANSION JOINT	SOG	SLAB ON GRADE
ELEV	ELEVATION	SPEC	SPECIFICATION(S)
EMBD	EMBEDDED / EMBEDMENT	SQ	SQUARE
ENGR	ENGINEER	STD	STANDARD
EOD	EDGE OF DECK	STIF	STIFFENER
EOS	EDGE OF SLAB	STIR	STIRRUP(S)
EQL	EQUAL	STL	STEEL
EW	EACH WAY	TCX	TOP CHORD EXTENSION
EXST	EXISTING	THRU	THROUGH
EXP	EXPANSION	TOC	TOP OF CONCRETE
EXT	EXTERIOR	TOF	TOP OF FOOTING
FDN	FOUNDATION	TOS	TOP OF STEEL
FFE	FINISHED FLOOR ELEVATION	TOW	TOP OF WALL
FOW	FACE OF WALL	TYP	TYPICAL
FRT	FIRE RETARDANT TREATED	UNO	UNLESS NOTED OTHERWISE
FS	FAR SIDE	VERT	VERTICAL
FTG	FOOTING	VIF	VERIFY IN FIELD
GA	GAUGE	W/	WITH
GALV	GALVANIZED	WP	WORK POINT

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SCALENE DESIGN PROJECT NO: 520-058.00

FRAZIER FARM PARK
SITE DESIGN
PROJECT ADDRESS
ROLESVILLE, NORTH CAROLINA

NORTH CAROLINA
NOT FOR CONSTRUCTION
SEAL
026690
ENGINEER
ROBERT T. MACIA

REVISIONS

NO.	DATE	
1	XX. XX. XXXX	REVISION DESCRIPTION
2	XX. XX. XXXX	REVISION DESCRIPTION

PLAN INFORMATION

PROJECT NO.	202011039
FILENAME	202011039-S1
CHECKED BY	PH
DRAWN BY	ALM
SCALE	N/A
DATE	05. 28. 2021

SHEET

STRUCTURAL GENERAL NOTES & ABBREVIATIONS

S110

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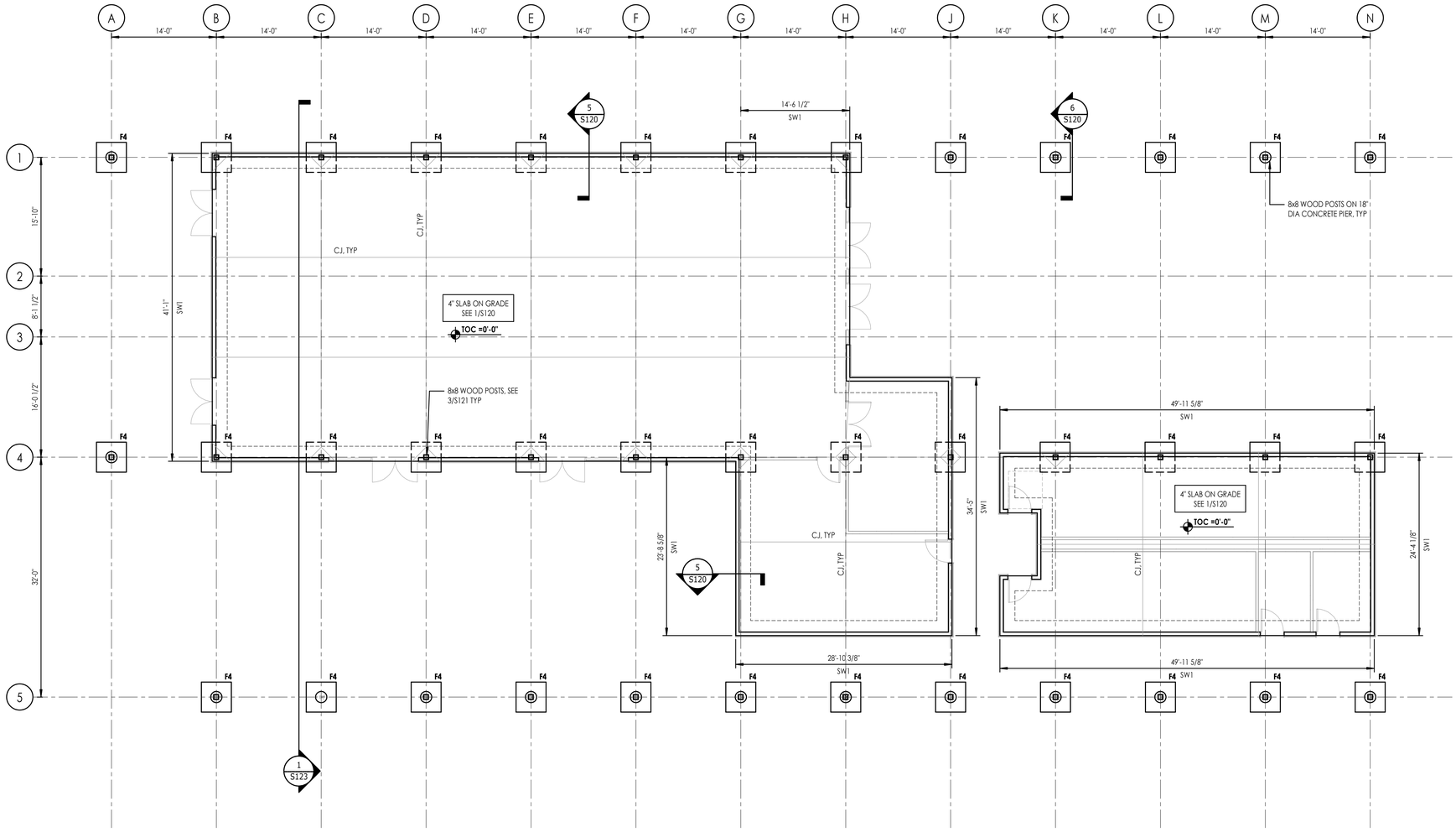

0' 4' 8' 16' 32'

FOOTING SCHEDULE - Event Center					
	FOOTING DIMENSIONS			REINFORCEMENT (EACH WAY)	
MARK	WIDTH	LENGTH	THICKNESS	TOP	BOTTOM
F4	4'-0"	4'-0"	1'-0"	--	(5)#5

NOTES:

1. SEE S110 FOR GENERAL STRUCTURAL NOTES AND ABBREVIATION LEGEND.
2. TOP OF SLAB ELEVATION = 0'-00" UNLESS NOTED OTHERWISE. SEE S120 FOR SLAB CONSTRUCTION DETAILS.
3. **[xxx'-xx"]** INDICATES TOP OF FOOTING ELEVATION.
4. **F# / [xxx'-xx"]** INDICATES FOOTING TYPE AND TOP OF FOOTING ELEVATION. SEE FOOTING SCHEDULE.
5. FOOTINGS ARE TO BE CENTERED ON WALLS AND COLUMNS UNLESS NOTED OTHERWISE.
6. SEE 1/S121 WOOD FRAMED CONSTRUCTION DETAIL FOR GENERAL WALL FRAMING REQUIREMENTS.
7. **SW#** INDICATES WOOD SHEAR WALL TYPE. SEE 1/S122. SHEAR WALLS ON THIS PLAN REFER TO WALLS FROM SLAB TO FIRST LEVEL OF FRAMING.
8. DIMENSIONS ARE TO OUTSIDE FACE OF WOOD STUD WALLS UNLESS NOTES OTHERWISE. REFER TO ARCHITECTURAL DRAWING FOR ALL INTERIOR WALL LOCATIONS AND OTHER DIMENSIONS.
9. THICKEND SLABS UNDER INTERIOR LOAD BEARING WALLS ARE INDICATED.
10. DETERMINE LOCATION AND EXTENT OF ALL THICKENED SLABS FOR NON-LOAD BEARING PARTITION WALLS FROM THE ARCHITECTURAL DRAWING.
11. DETERMINE LOCATIONS OF ALL FLOOR DRAINS, SLOPES TO DRAINS, AND SLAB DEPRESSIONS FROM ARCHITECTURAL DRAWING.
12. SEE S120 FOR MISCELLANEOUS TYPICAL FOUNDATION DETAILS.

LEGEND:

- XXX'-XX" — TOP OF SLAB ELEVATION
- SLOPED SLAB SURFACE
- SLOPED SLAB SURFACE
- STEP IN SLAB ELEVATION
- LOAD BEARING WALL
- SHEAR WALL (SW# / X'-XX")
- CJ — SLAB CONTROL JOINT
- [XXX'-XX"] — STEP IN TOP OF FOOTING ELEVATION
- SHADED AREA: xxxxxxxxxxxxxxxxxxxx
- NON-LOAD BEARING PARTITION WALL

1 Event Center - Level 1 Foundation
1/8" = 1'-0"

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SEAL
026690
ENGINEER
ROBERT T. MACIA
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EVENT CENTER - FOUNDATION PLAN

S111

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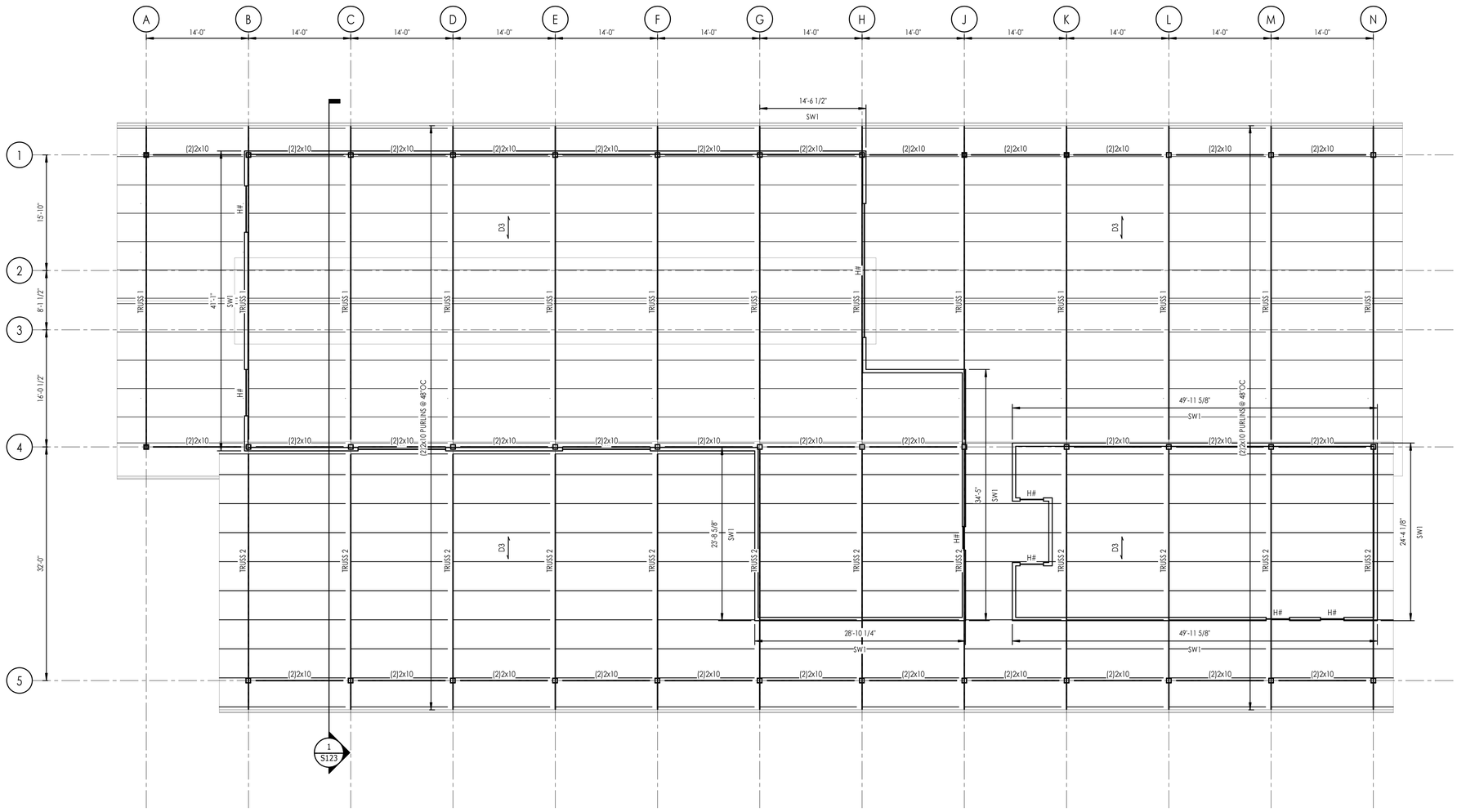

WOOD BEAM/HEADER SCHEDULE			
BEAM/HEADER MARK	BEAM/HEADER SIZE	BEAM/HEADER MARK	BEAM/HEADER SIZE
H1	(2)2x8	H8	(2)1.75 x 9.25 LVL
H2	(2)2x10	H9	(2)1.75 x 11.25 LVL
H3	(2)2x12	H10	(2)1.75 x 14 LVL
H4	(3)2x8	H11	(2)1.75 x 16 LVL
H5	(3)2x10	H12	(2)1.75 x 18 LVL
H6	(3)2x12	H13	(3)1.75 x 9.25 LVL
H7	(2)1.75 x 7.25 LVL	H14	(3)1.75 x 11.25 LVL

NOTES:

1. REFER TO GENERAL STRUCTURAL NOTES FOR MATERIAL PROPERTIES REQUIRED FOR BEAMS/HEADERS.
2. BEAMS/HEADERS EXPOSED TO THE EXTERIOR ARE TO BE PRESSURE TREATED.
3. MULTI-PLY BEAMS/HEADERS CONSTRUCTED OF MULTIPLE PLIES ARE TO BE NAILED TOGETHER PER THE MULTI-PLY BEAMS/HEADERS TYPICAL DETAIL.
4. ANY BEAMS/HEADERS WITHIN 2 HOUR RATED EXTERIOR WALLS ARE TO BE FIRE-RETARDANT TREATED. PSL MAY BE TREATED WITH COATING MEETING EITHER ASTM E 84 OR UL 723 AND HAVE LISTED FLAME SPREAD INDEX OF 25 OR LESS.

0' 4' 8' 16' 32'

NOTES:

1. SEE S110 FOR GENERAL STRUCTURAL NOTES AND ABBREVIATION LEGEND.
2. **[xxx'-xx"]** INDICATES ROOF TRUSS/RAFTER BEARING ELEVATION.
3. SEE 1/S121 WOOD FRAMED CONSTRUCTION DETAIL FOR GENERAL WALL FRAMING REQUIREMENTS.
4. **D3** INDICATES 2x6 T&G WOOD DECKING W/ 7/16" PLYWOOD OVERLAY, SEE 4/S122 FOR ROOF SHEATHING CONSTRUCTION DETAIL.
5. **H#** INDICATES WOOD HEADER OR WOOD BEAM, SEE THIS SHEET FOR WOOD HEADER/BEAM SCHEDULE.
6. PROVIDE DOUBLE STUDS UNDER ALL BEAM, HIP TRUSS, AND TRUSS GIRDER BEARING LOCATIONS, UNLESS NOTED OTHERWISE.
7. **SW#** INDICATES WOOD SHEAR WALL TYPE. SEE 1/S122. SHEAR WALLS ON THIS PLAN REFER TO WALLS BELOW THIS LEVEL OF FRAMING.
8. DIMENSIONS ARE TO OUTSIDE FACE OF STUD WALLS UNLESS NOTES OTHERWISE. REFER TO ARCHITECTURAL DRAWING FOR ALL INTEROR WALL LOCATIONS AND OTHER DIMENSIONS.
9. SEE ARCHITECTURAL DRAWING TO DETERMINE ALL ROOF SLOPES AND ROOF GEOMETRY.
10. SEE S122 FOR MISCELLANEOUS TYPICAL ROOF FRAMING DETAILS.

LEGEND:

LOAD BEARING WALL

SHEAR WALL (SW#, X'-XX")

SHADED AREA: MECHANICAL UNIT ZONE

NON-LOAD BEARING PARTITION

1 Event Center - Level 2 Roof
1/8" = 1'-0"

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

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SITE DESIGN

PROJECT ADDRESS

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NOT FOR CONSTRUCTION
SEAL
026690
ENGINEER
ROBERT T. MACIA
NORTH CAROLINA

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PLAN INFORMATION

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DATE	05. 28. 2021

SHEET

EVENT CENTER - ROOF PLAN

S112

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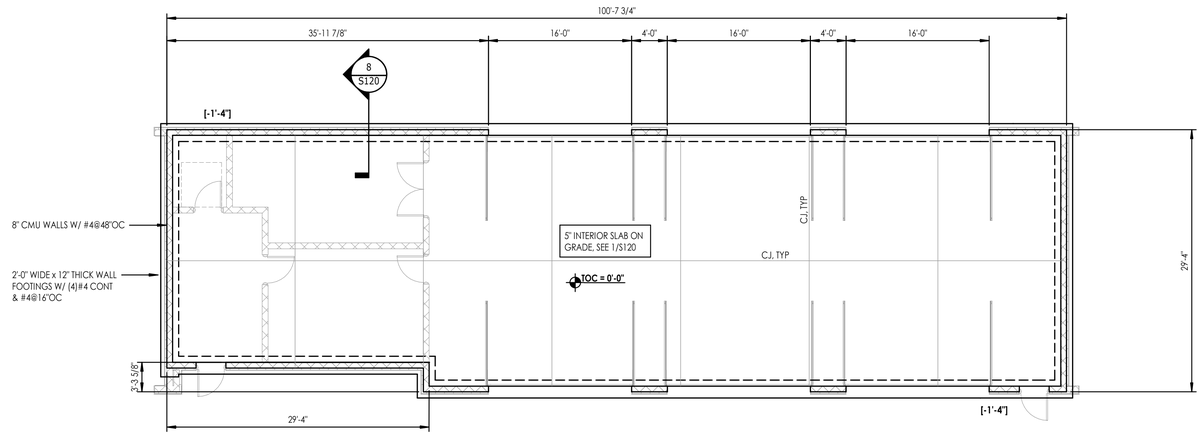


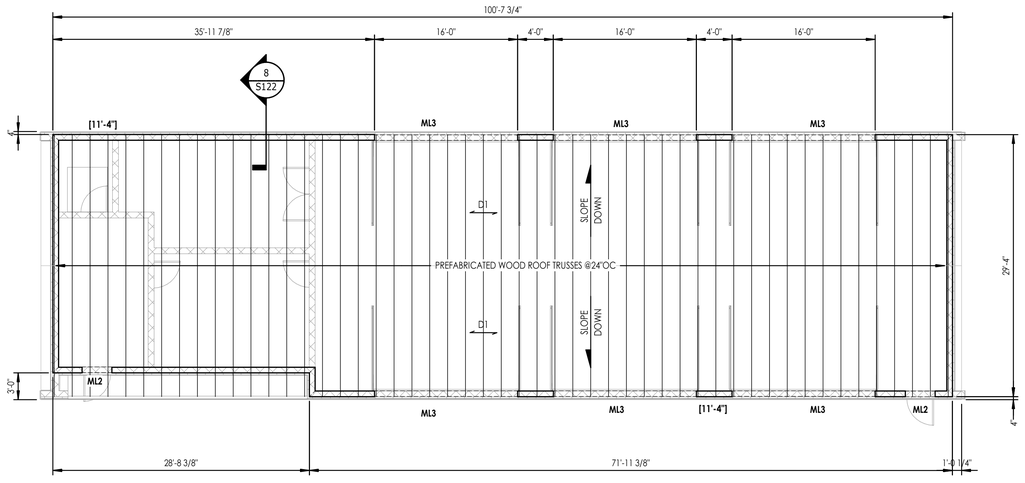
1 Maintanence - Level 1 Foundation
1/8" = 1'-0"

NOTES:

1. SEE S110 FOR GENERAL STRUCTURAL NOTES AND ABBREVIATION LEGEND.
2. TOP OF SLAB ELEVATION = 0'-0" UNLESS NOTED OTHERWISE. SEE S120 FOR SLAB CONSTRUCTION DETAILS.
3. **[xxx'-xx"]** INDICATES TOP OF FOOTING ELEVATION.
4. **F# / [xxx'-xx"]** INDICATES FOOTING TYPE AND TOP OF FOOTING ELEVATION. SEE FOOTING SCHEDULE.
5. FOOTINGS ARE TO BE CENTERED ON WALLS AND COLUMNS UNLESS NOTED OTHERWISE.
6. THICKEND SLAB UNDER INTERIOR CMU WALLS ARE INDICATED. DETERMINE DIMENSIONS AND EXACT EXTENT OF ALL THICKENED SLAB FOR CMU PARTITIONS FROM THE ARCHITECTURAL DRAWINGS.
7. DETERMINE LOCATIONS OF ALL FLOOR DRAINS, SLOPES TO DRAINS, AND SLAB DEPRESSIONS FROM ARCHITECTURAL DRAWINGS.
8. SEE S120 FOR MISCELLANEOUS TYPICAL FOUNDATION DETAILS.

LEGEND:

- XXX'-XX" — TOP OF SLAB ELEVATION
- SLOPED SLAB SURFACE
- SLOPED SLAB SURFACE
- STEP IN SLAB ELEVATION
- CMU WALL
- C.J — SLAB CONTROL JOINT
- XXX'-XX" / XXX'-XX" / XXX'-XX" — STEP IN TOP OF FOOTING ELEVATION
- SHADED AREA: xxxxxxxxxxxxxxxxxxxx



2 Maintanence - Level 2 Roof
1/8" = 1'-0"

NOTES:

1. SEE S110 FOR STRUCTURAL GENERAL NOTES AND ABBREVIATION LEGEND.
2. **[xxx'-xx"]** INDICATES ROOF TRUSS/RAFTER BEARING ELEVATION.
3. SEE S130 FOR TYPICAL MASONRY CONSTRUCTION DETAILS.
4. **D1** INDICATES 7/16" PLYWOOD ROOF DECK. SEE 7/S122 FOR ROOF SHEATHING CONSTRUCTION DETAIL.
5. **ML#** INDICATES LOAD BEARING MASONRY LINTEL. SEE 2/S130 FOR SCHEDULE.
6. PREFABRICATED WOOD ROOF TRUSSES ARE TO BE DESIGNED TO SUPPORT THE MECHANICAL UNITS SHOWN ON THE PLAN BY SHADED AREAS; COORDINATE THE EXACT LOCATIONS AND SIZE OF THE UNITS BASED ON THE MEP DRAWINGS.
7. SEE ARCHITECTURAL DRAWING TO DETERMINE ALL ROOF SLOPES AND ROOF GEOMETRY.
8. SEE S122 FOR MISCELLANEOUS TYPICAL ROOF FRAMING DETAILS.

LEGEND:

- D# — SPAN DIRECTION OF DECK
- SHADED AREA: xxxxxxxxxxxxxxxxxxxx
- CMU WALL

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ENGINEER
ROBERT T. MACIA
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SCALE	N/A
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SHEET

MAINTENANCE BUILDING

S114

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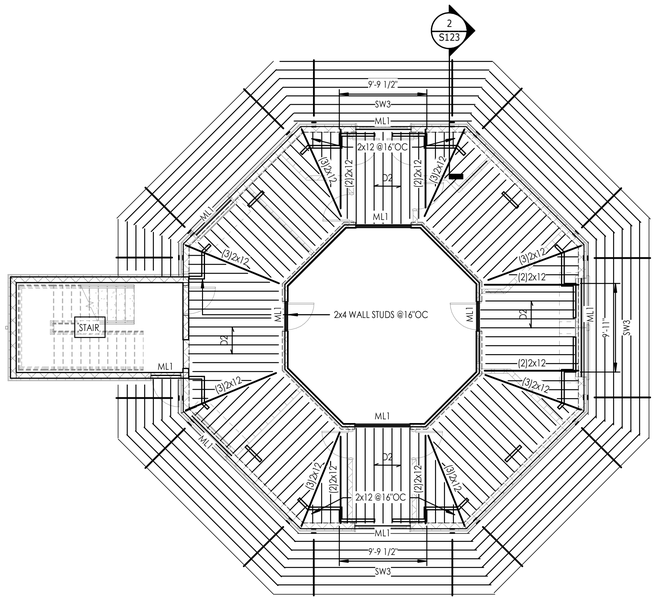

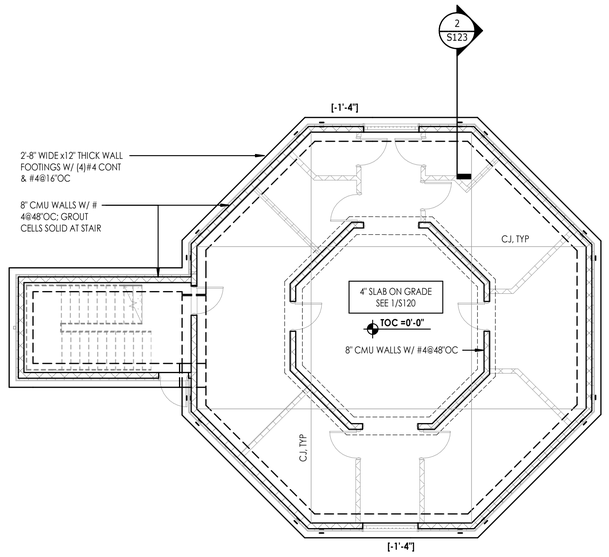

0' 4' 8' 16' 32'

NOTES:

1. SEE S110 FOR GENERAL STRUCTURAL NOTES AND ABBREVIATION LEGEND.
2. TOP OF FLOOR SHEATHING ELEVATION = +12'-0" UNLESS NOTED OTHERWISE.
3. SEE 1/S121 WOOD FRAMED CONSTRUCTION DETAIL FOR GENERAL WALL FRAMING REQUIREMENTS.
4. SEE S130 FOR TYPICAL MASONRY CONSTRUCTION DETAILS.
5. **D2** INDICATES 23/32" PLYWOOD FLOOR DECK, SEE 10/S121 FOR FLOOR SHEATHING CONSTRUCTION DETAIL.
6. **ML#** INDICATES LOAD BEARING MASONRY LINTEL SEE 2/S130 FOR SCHEDULE.
7. PROVIDE DOUBLE STUDS UNDER ALL BEAM, HIP TRUSS, AND TRUSS GIRDER BEARING LOCATIONS, UNLESS NOTED OTHERWISE.
8. **SW#** INDICATES WOOD SHEAR WALL TYPE, SEE 1/S122. SHEAR WALLS ON THIS PLAN REFER TO WALLS ABOVE THIS LEVEL OF FRAMING.
9. DIMENSIONS ARE TO OUTSIDE FACE OF STUD WALLS UNLESS NOTES OTHERWISE. REFER TO ARCHITECTURAL DRAWING FOR ALL INTERIOR WALL LOCATIONS AND OTHER DIMENSIONS.
10. SEE S121 FOR MISCELLANEOUS TYPICAL FLOOR FRAMING DETAILS.

LEGEND:

- XXX'-XX" — TOP OF SHEATHING ELEVATION
- LOAD BEARING WALL
- SHEAR WALL (SW# / X'-XX")
- SHADED AREA: xxxxxxxxxxxxxxxxxxxx
- NON-LOAD BEARING PARTITION
- CMU WALL

2 Octagon - Level 2 Floor
1/8" = 1'-0"

0' 4' 8' 16' 32'

PLAN NOTES:

1. SEE S110 FOR GENERAL STRUCTURAL NOTES AND ABBREVIATION LEGEND.
2. TOP OF SLAB ELEVATION = 0'-00" UNLESS NOTED OTHERWISE. SEE 1/S120 FOR SLAB CONSTRUCTION DETAILS.
3. **[xxx'-xx"]** INDICATES TOP OF FOOTING ELEVATION.
4. **F# / [xxx'-xx"]** INDICATES FOOTING TYPE AND TOP OF FOOTING ELEVATION. SEE FOOTING SCHEDULE.
5. FOOTINGS ARE TO BE CENTERED ON WALLS AND COLUMNS UNLESS NOTED OTHERWISE.
6. THICKEND SLAB UNDER INTERIOR CMU WALLS ARE INDICATED. DETERMINE DIMENSIONS AND EXACT EXTENT OF ALL THICKENED SLAB FOR CMU PARTITIONS FROM THE ARCHITECTURAL DRAWINGS.
7. DETERMINE LOCATIONS OF ALL FLOOR DRAINS, SLOPES TO DRAINS, AND SLAB DEPRESSIONS FROM ARCHITECTURAL DRAWINGS.
8. SEE S120 FOR MISCELLANEOUS TYPICAL FOUNDATION DETAILS.

LEGEND:

- XXX'-XX" — TOP OF SLAB ELEVATION
- SLOPED SLAB SURFACE
- SLOPED SLAB SURFACE
- STEP IN SLAB ELEVATION
- CMU WALL
- CJ — SLAB CONTROL JOINT
- XXX'-XX" / XXX'-XX" / XXX'-XX" — STEP IN TOP OF FOOTING ELEVATION
- SHADED AREA: xxxxxxxxxxxxxxxxxxxx

1 Octagon - Level 1 Foundation
1/8" = 1'-0"

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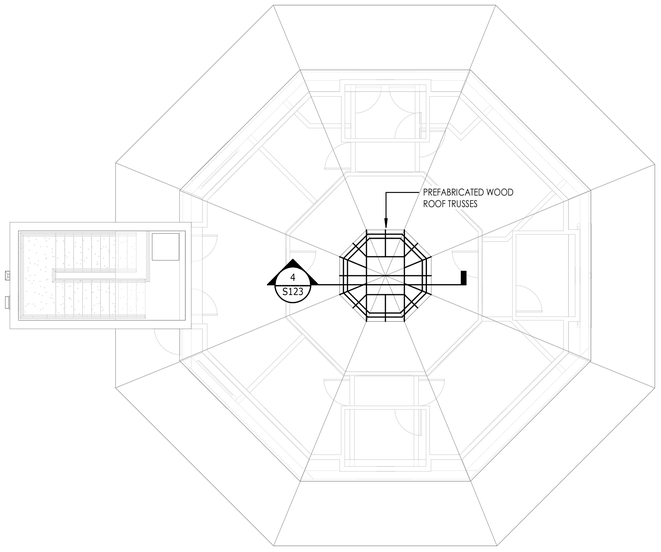
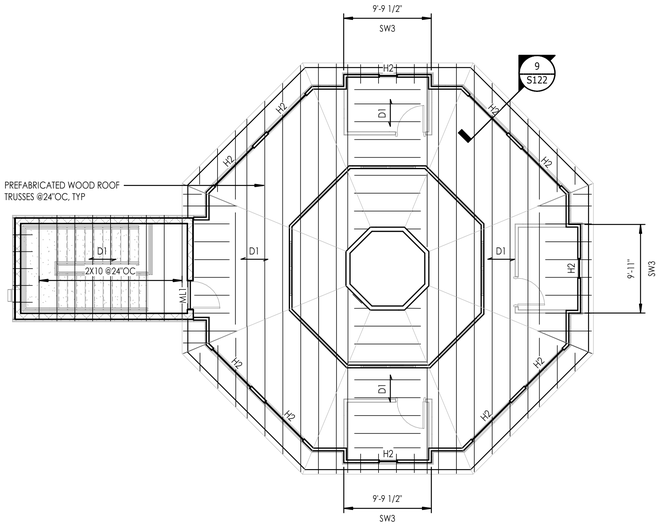
DRAWN BY	ALM
SCALE	N/A
DATE	05. 28. 2021

SHEET
OCTAGON - FOUNDATION AND 2ND FLOOR PLAN

S115

M:\Projects\TownRolesville\2020110039 Frazier Farm Park\04-Production\Engineering\2020110039X - 24X36 Titleblock.dwg, 10/15/2018 4:06:37 PM, Nanekar, Shweta





WOOD BEAM/HEADER SCHEDULE			
BEAM/HEADER MARK	**BEAM/HEADER SIZE**	**BEAM/HEADER MARK**	**BEAM/HEADER SIZE**
H1	(2)2x8	H8	(2)1.75 x 9.25 LVL
H2	(2)2x10	H9	(2)1.75 x 11.25 LVL
H3	(2)2x12	H10	(2)1.75 x 14 LVL
H4	(3)2x8	H11	(2)1.75 x 16 LVL
H5	(3)2x10	H12	(2)1.75 x 18 LVL
H6	(3)2x12	H13	(3)1.75 x 9.25 LVL
H7	(2)1.75 x 7.25 LVL	H14	(3)1.75 x 11.25 LVL

NOTES:

1. REFER TO GENERAL STRUCTURAL NOTES FOR MATERIAL PROPERTIES REQUIRED FOR BEAMS/HEADERS.
2. BEAMS/HEADERS EXPOSED TO THE EXTERIOR ARE TO BE PRESSURE TREATED.
3. MULTI-PLY BEAMS/HEADERS CONSTRUCTED OF MULTIPLE PLIES ARE TO BE NAILED TOGETHER PER THE MULTI-PLY BEAMS/HEADERS TYPICAL DETAIL.
4. ANY BEAMS/HEADERS WITHIN 2 HOUR RATED EXTERIOR WALLS ARE TO BE FIRE RETARDANT TREATED. PSL MAY BE TREATED WITH COATING MEETING EITHER ASTM E 84 OR UL 723 AND HAVE LISTED FLAME SPREAD INDEX OF 25 OR LESS.

0' 4' 8' 16' 32'

NOTES:

1. SEE S110 FOR GENERAL STRUCTURAL NOTES AND ABBREVIATION LEGEND.
2. ROOF TRUSS BEARING ELEVATION = +30'-0" UNLESS NOTED OTHERWISE.
3. SEE 1/S121 WOOD FRAMED CONSTRUCTION DETAIL FOR GENERAL WALL FRAMING REQUIREMENTS.
4. **DI** INDICATES 7/16" PLYWOOD ROOF DECK. SEE 7/S122 FOR ROOF SHEATHING CONSTRUCTION DETAIL.
5. **H#** INDICATES WOOD HEADER OR WOOD BEAM, SEE THIS SHEET FOR WOOD HEADER/BEAM SCHEDULE.
6. PROVIDE DOUBLE STUDS UNDER ALL BEAM, HIP TRUSS, AND TRUSS GIRDER BEARING LOCATIONS, UNLESS NOTED OTHERWISE.
7. DIMENSIONS ARE TO OUTSIDE FACE OF STUD WALLS UNLESS NOTES OTHERWISE. REFER TO ARCHITECTURAL DRAWING FOR ALL INTEROR WALL LOCATIONS AND OTHER DIMENSIONS.
8. PREFABRICATED WOOD ROOF TRUSSES ARE TO BE DESIGNED TO SUPPORT THE MECHANICAL UNITS SHOWN ON THE PLAN. COORDINATE THE EXACT LOCATIONS AND SIZE OF THE UNITS BASED ON THE MEP DRAWINGS. CONFIRM UNIT WEIGHTS DO NOT EXCEED MAXIMUM WEIGHTS INDICATED ON THIS PLAN.
9. SEE ARCHITECTURAL DRAWING TO DETERMINE ALL ROOF SLOPES AND ROOF GEOMETRY.
10. SEE S121 FOR MISCELLANEOUS TYPICAL ROOF FRAMING DETAILS.

LEGEND:

LOAD BEARING WALL

SHEAR WALL (SW# X'-XX")

SHADED AREA: xxxxxxxxxxxxxxxxxxxx

NON-LOAD BEARING PARTITION

NOTES:

1. SEE S110 FOR GENERAL STRUCTURAL NOTES AND ABBREVIATION LEGEND.
2. ROOF TRUSS BEARING ELEVATION = +20'-0" UNLESS NOTED OTHERWISE.
3. SEE 1/S121 WOOD FRAMED CONSTRUCTION DETAIL FOR GENERAL WALL FRAMING REQUIREMENTS.
4. **DI** INDICATES 7/16" PLYWOOD ROOF DECK. SEE 7/S122 FOR ROOF SHEATHING CONSTRUCTION DETAIL.
5. **H#** INDICATES WOOD HEADER OR WOOD BEAM, SEE THIS SHEET FOR WOOD HEADER/BEAM SCHEDULE.
6. PROVIDE DOUBLE STUDS UNDER ALL BEAM, HIP TRUSS, AND TRUSS GIRDER BEARING LOCATIONS, UNLESS NOTED OTHERWISE.
7. **SW#** INDICATES WOOD SHEAR WALL TYPE. SEE 1/S122. SHEAR WALLS ON THIS PLAN REFER TO WALLS BELOW THIS LEVEL OF FRAMING.
8. DIMENSIONS ARE TO OUTSIDE FACE OF STUD WALLS UNLESS NOTES OTHERWISE. REFER TO ARCHITECTURAL DRAWING FOR ALL INTEROR WALL LOCATIONS AND OTHER DIMENSIONS.
9. PREFABRICATED WOOD ROOF TRUSSES ARE TO BE DESIGNED TO SUPPORT THE MECHANICAL UNITS SHOWN ON THE PLAN. COORDINATE THE EXACT LOCATIONS AND SIZE OF THE UNITS BASED ON THE MEP DRAWINGS. CONFIRM UNIT WEIGHTS DO NOT EXCEED MAXIMUM WEIGHTS INDICATED ON THIS PLAN.
10. SEE ARCHITECTURAL DRAWING TO DETERMINE ALL ROOF SLOPES AND ROOF GEOMETRY.
11. SEE S121 FOR MISCELLANEOUS TYPICAL ROOF FRAMING DETAILS.

LEGEND:

LOAD BEARING WALL

SHEAR WALL (SW# X'-XX")

SHADED AREA: xxxxxxxxxxxxxxxxxxxx

NON-LOAD BEARING PARTITION

2 Octagon - Level 4 Cupola
1/8" = 1'-0"

1 Octagon - Level 3 Roof
1/8" = 1'-0"

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

McADAMS
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434 FAYETTEVILLE ST.
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RALEIGH, NC 27601
919.825.0295
FIRM LICENSE #P-1591
SCALENE DESIGN
PROJECT NO:
S20-058.00

FRAZIER FARM PARK
SITE DESIGN
PROJECT ADDRESS
ROLESVILLE, NORTH CAROLINA

NOT FOR CONSTRUCTION
NORTH CAROLINA
SEAL
026690
ENGINEER
ROBERT T. MACIA

REVISIONS

NO.	DATE	
1	XX. XX. XXXX	REVISION DESCRIPTION
2	XX. XX. XXXX	REVISION DESCRIPTION

PLAN INFORMATION

PROJECT NO.	202011039
FILENAME	202011039-S1
CHECKED BY	PH
DRAWN BY	ALM
SCALE	N/A
DATE	05. 28. 2021

SHEET

OCTAGON - ROOF AND CUPOLA

S116

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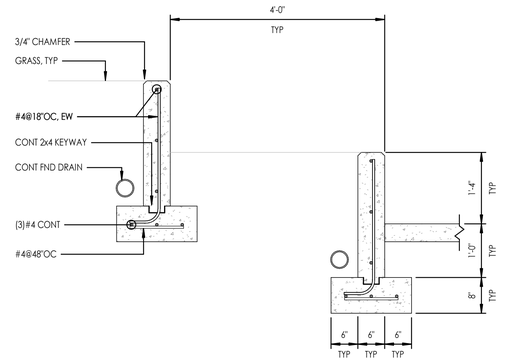
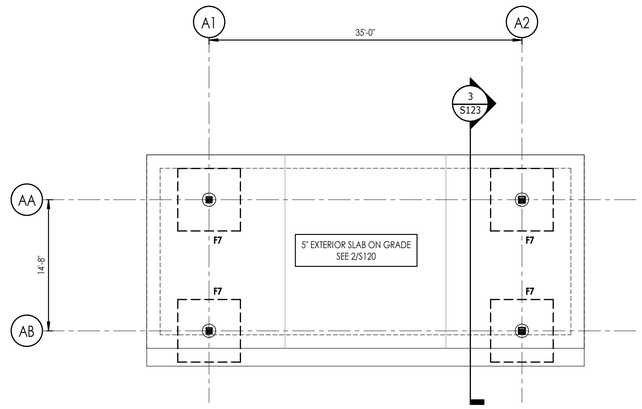


3 SECTION
3/4" = 1'-0"



FOOTING SCHEDULE - Ampitheater					
	FOOTING DIMENSIONS			REINFORCEMENT (EACH WAY)	
MARK	WIDTH	LENGTH	THICKNESS	TOP	BOTTOM
F7	7'-0"	7'-0"	1'-3"	(8) #7	(8) #7

PLAN NOTES:

1. SEE S110 FOR GENERAL STRUCTURAL NOTES AND ABBREVIATION LEGEND.
2. TOP OF SLAB ELEVATION = xxx'-xx" UNLESS NOTED OTHERWISE. SEE S120 FOR SLAB CONSTRUCTION DETAILS.
3. **F# / [xxx'-xx"]** INDICATES FOOTING TYPE AND TOP OF FOOTING ELEVATION. SEE FOOTING SCHEDULE.
4. FOOTINGS ARE TO BE CENTERED ON WALLS AND COLUMNS UNLESS NOTED OTHERWISE.
5. **P# / [xxx'-xx"]** INDICATES CONCRETE PEDESTAL TYPE AND TOP OF PEDESTAL ELEVATION. SEE Sxxx FOR PEDESTAL CONSTRUCTION DETAILS.
6. SEE S120 FOR MISCELLANEOUS TYPICAL FOUNDATION DETAILS.

LEGEND:

XXX'-XX" — TOP OF SLAB ELEVATION

SLOPED SLAB SURFACE

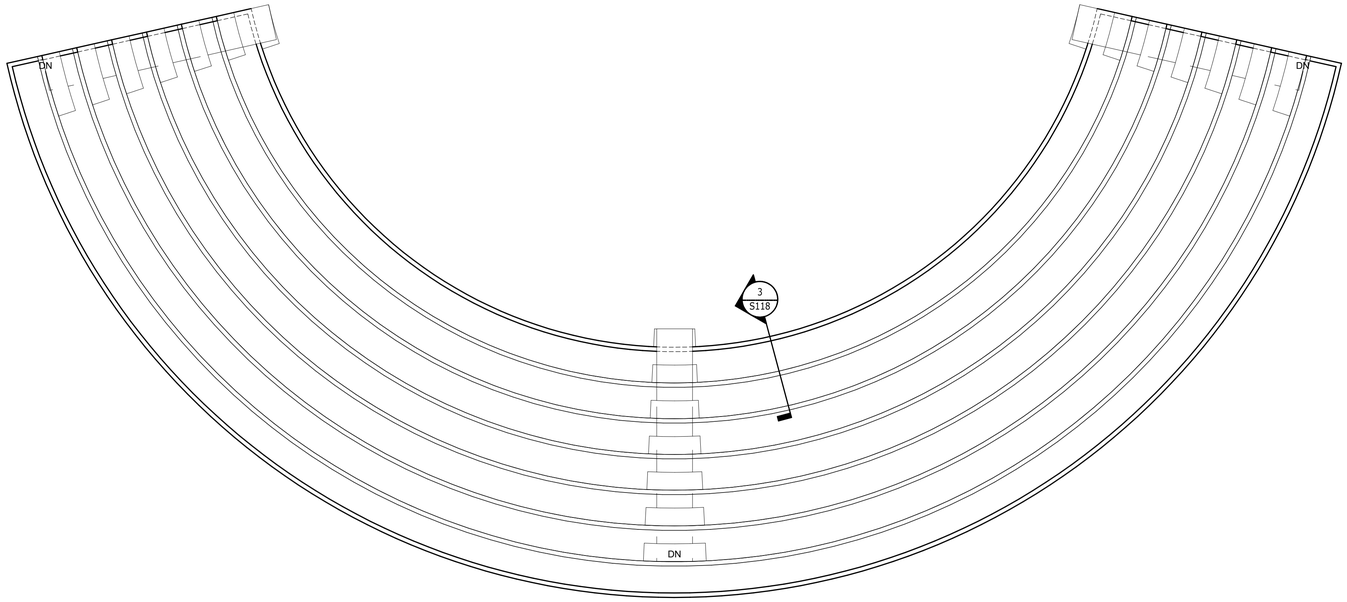
SLOPED SLAB SURFACE

STEP IN SLAB ELEVATION

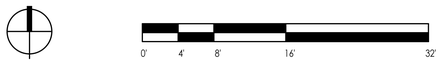
CJ — SLAB CONTROL JOINT

XXX'-XX" | XXX'-XX" | XXX'-XX" — STEP IN TOP OF FOOTING ELEVATION

SHADED AREA: xxxxxxxxxxxxxxxxxxxx



1 Amphitheater - Level 1 Foundation
1/8" = 1'-0"



NOTES:

1. SEE S110 FOR GENERAL STRUCTURAL NOTES AND ABBREVIATION LEGEND.
2. SEE 1/S121 WOOD FRAMED CONSTRUCTION DETAIL FOR GENERAL WALL FRAMING REQUIREMENTS.
3. **D3** INDICATES 2x6 T&G WOOD DECKING W/ 7/16" PLYWOOD OVERLAY, SEE 4/S122 FOR ROOF SHEATHING CONSTRUCTION DETAIL.
4. PREFABRICATED WOOD ROOF TRUSSES ARE TO BE DESIGNED TO SUPPORT THE MECHANICAL UNITS SHOWN ON THE PLAN. COORDINATE THE EXACT LOCATIONS AND SIZE OF THE UNITS BASED ON THE MEP DRAWINGS. CONFIRM UNIT WEIGHTS DO NOT EXCEED MAXIMUM. WEIGHTS INDICATED ON THIS PLAN.
5. SEE ARCHITECTURAL DRAWING TO DETERMINE ALL ROOF SLOPES AND ROOF GEOMETRY.
6. SEE S121 FOR MISCELLANEOUS TYPICAL ROOF FRAMING DETAILS.

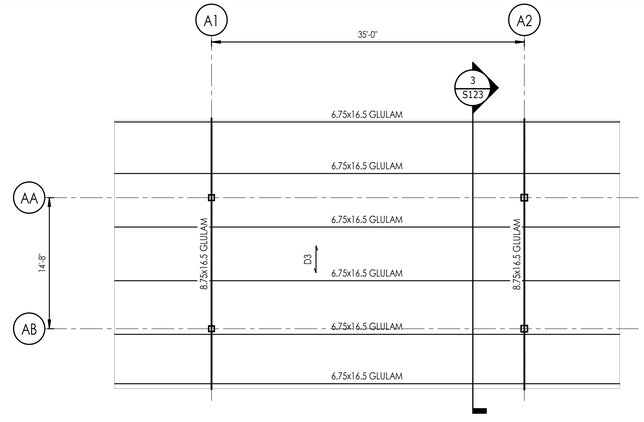
LEGEND:

LOAD BEARING WALL

SHEAR WALL — SW# — X'-XX"

SHADED AREA: xxxxxxxxxxxxxxxxxxxx

NON-LOAD BEARING PARTITION



2 Amphitheater - Level 2 Roof
1/8" = 1'-0"

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

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PROJECT ADDRESS

ROLESVILLE, NORTH CAROLINA

NOT FOR CONSTRUCTION
NORTH CAROLINA
SEAL
026890
ENGINEER
ROBERT T. MACIA
PE

REVISIONS

NO.	DATE	
1	XX. XX. XXXX	REVISION DESCRIPTION
2	XX. XX. XXXX	REVISION DESCRIPTION

PLAN INFORMATION

PROJECT NO.	202011039
FILENAME	202011039-S1
CHECKED BY	PH
DRAWN BY	ALM
SCALE	N/A
DATE	05. 28. 2021

SHEET

AMPHITHEATER
FOUNDATION/FRAMING PLAN

S118

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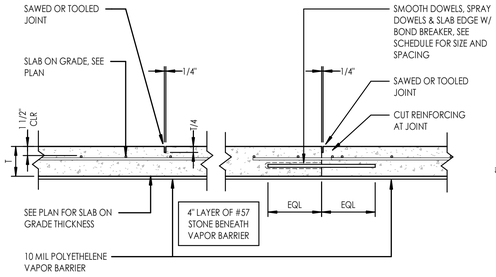
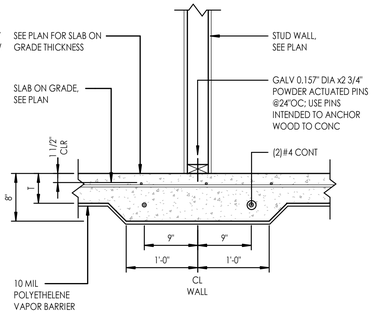
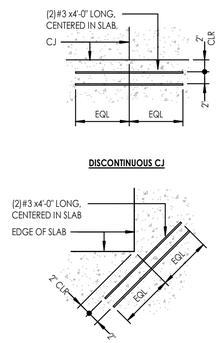
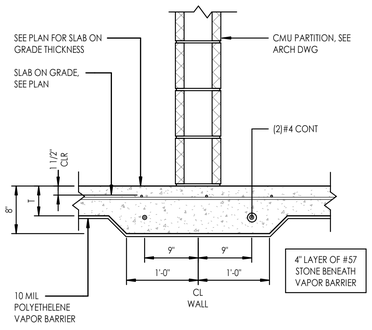


CONTROL JOINT **CONSTRUCTION JOINT**

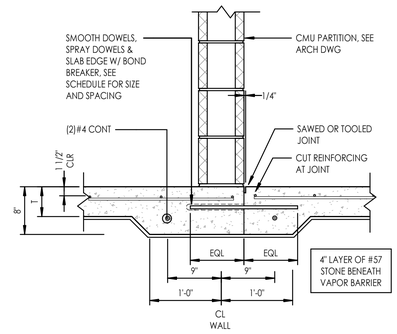


THICKENED SLAB AT CMU PARTITIONS





THICKENED SLAB AT CMU PARTITIONS



CONSTRUCTION JOINT AT CMU PARTITION

NOTES:

1. SEE PLAN FOR CONTROL JOINT (CJ) LAYOUT. PROVIDE ADDITIONAL JOINTS AS REQUIRED TO MAINTAIN MAXIMUM CONTROL JOINT SPACING PER SCHEDULE.
2. SAW CUT CONTROL JOINTS AS SOON AS CONCRETE CAN SUPPORT WEIGHT OF EQUIPMENT BUT NOT MORE THAN 4 HOURS AFTER SLAB PLACEMENT.
3. LOCATION OF SLAB CONSTRUCTION JOINTS TO BE DETERMINED BY CONTRACTOR AND SUBMITTED TO ENGINEER FOR REVIEW.
4. SEE SOIL REPORT FOR PROPER PREPARATION AND COMPACTION UNDER SLAB.

SLAB REINFORCING SCHEDULE

T	SLAB REINFORCING	CONSTRUCTION JOINT DOWELS	MAX CJ SPACING
4" SLAB	#3@18"OC EACH WAY	1/2" DIAMETER x12" LONG @18"OC	16 FEET

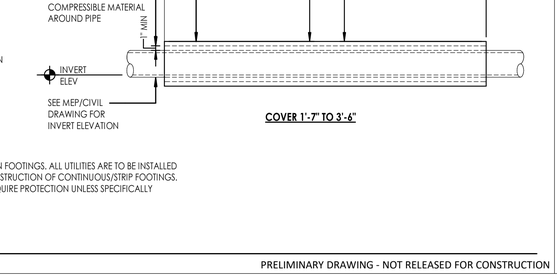
1 SLAB ON GRADE CONSTRUCTION
1" = 1'-0"

8 SECTION
3/4" = 1'-0"

5 DETAIL
3/4" = 1'-0"

PLAN VIEW

4 CORNER BAR IN FOUNDATION
3/4" = 1'-0"



CONTROL JOINT **CONSTRUCTION JOINT**

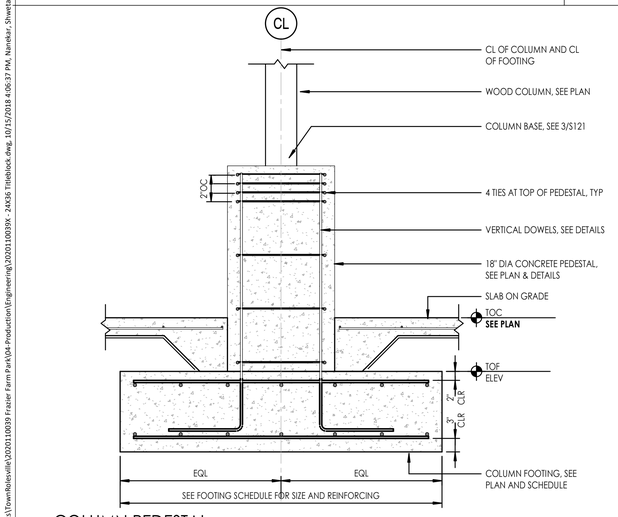
SLAB REINFORCING SCHEDULE

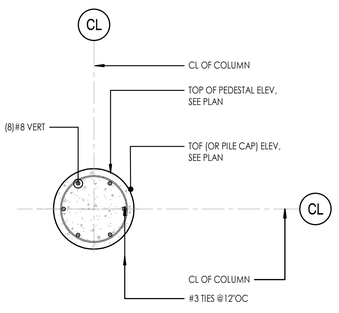
T	SLAB REINFORCING	CONSTRUCTION JOINT DOWELS	MAX CJ SPACING
4" SLAB	#3@18"OC EACH WAY	1/2" DIAMETER x12" LONG @12"OC	16 FEET
5" SLAB	#3@12"OC EACH WAY	3/4" DIAMETER x12" LONG @12"OC	20 FEET
6" SLAB	#4@16"OC EACH WAY	3/4" DIAMETER x12" LONG @12"OC	24 FEET

NOTES:

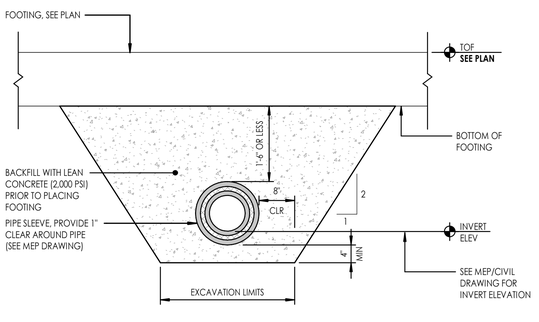
1. SEE PLAN FOR CONTROL JOINT (CJ) LAYOUT. PROVIDE ADDITIONAL JOINTS AS REQUIRED TO MAINTAIN MAXIMUM CONTROL JOINT SPACING PER SCHEDULE.
2. SAW CUT CONTROL JOINTS AS SOON AS CONCRETE CAN SUPPORT WEIGHT OF EQUIPMENT BUT NOT MORE THAN 4 HOURS AFTER SLAB PLACEMENT.
3. LOCATION OF SLAB CONSTRUCTION JOINTS TO BE DETERMINED BY CONTRACTOR AND SUBMITTED TO ENGINEER FOR REVIEW.
4. SEE SOIL REPROT FOR PROPER PREPARATION AND COMPACTION UNDER SLAB.
5. USE AIR ENTRAINED CONCRETE FOR ALL EXTERIOR SLABS, SEE SPECIFICATIONS.

2 EXTERIOR SLAB ON GRADE CONSTRUCTION
1" = 1'-0"

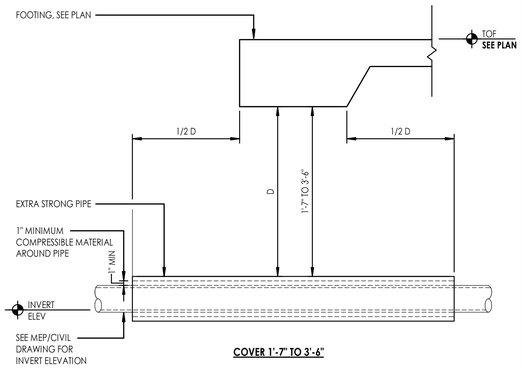




6 COLUMN PEDESTAL
3/4" = 1'-0"



COVER 1'-6" OR LESS



COVER 1'-7" TO 3'-6"

NOTES:

1. UTILITIES MAY NOT PASS THROUGH OR UNDER COLUMN FOOTINGS. ALL UTILITIES ARE TO BE INSTALLED AWAY FROM COLUMN FOOTINGS AND PRIOR TO CONSTRUCTION OF CONTINUOUS/STRIP FOOTINGS.
2. UTILITIES WITH COVER GREATER THAN 3'-6" DO NOT REQUIRE PROTECTION UNLESS SPECIFICALLY REQUIRED BY MEP/CIVIL ENGINEER.

3 UTILITY BELOW FOOTING
3/4" = 1'-0"

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FRAZIER FARM PARK
SITE DESIGN
PROJECT ADDRESS
ROLESVILLE, NORTH CAROLINA

NORTH CAROLINA NOT FOR CONSTRUCTION SEAL 026690 ENGINEER ROBERT T. MACIA

REVISIONS

NO.	DATE	
1	XX. XX. XXXX	REVISION DESCRIPTION
2	XX. XX. XXXX	REVISION DESCRIPTION

PLAN INFORMATION

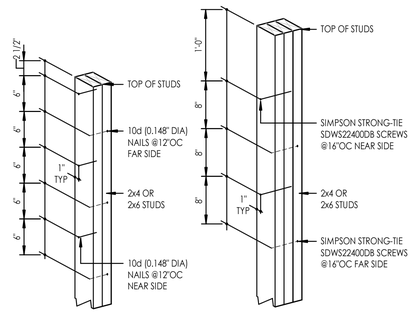
PROJECT NO.	202011039
FILENAME	202011039-S1
CHECKED BY	PH
DRAWN BY	ALM
SCALE	N/A
DATE	05. 28. 2021

SHEET
FOUNDATION DETAILS

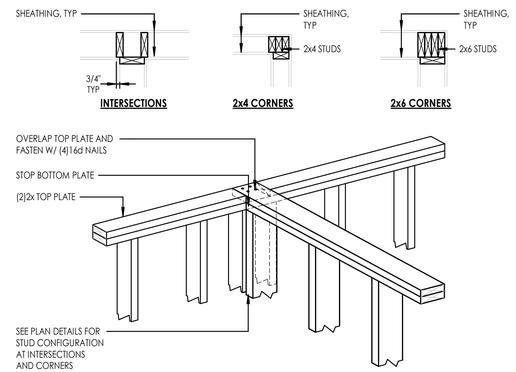
S120

M:\Projects\TownRoleseville\2020110039 Frazier Farm Park\04-Production\Engineering\20201100339 - 24X36 Titleblock.dwg, 10/15/2018 4:06:37 PM, Nanekar, Shweta

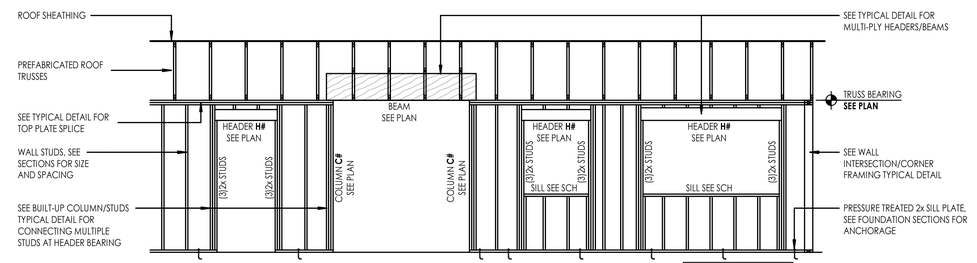
PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION



8 BUILT-UP COLUMNS/STUDS
1" = 1'-0"



5 WALL INTERSECTION/CORNER FRAMING
3/4" = 1'-0"

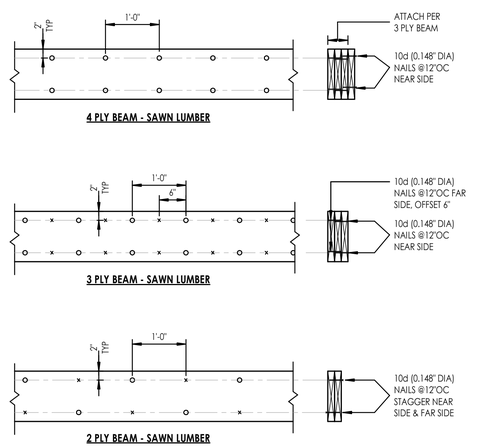


NOTES:

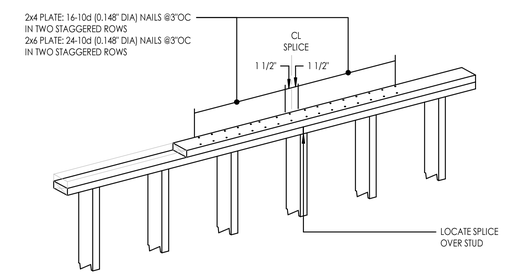
1. FRAMING REPRESENTS TYPICAL CONDITIONS. REFER TO PLANS AND DETAILS FOR SPECIFIC CONDITIONS.
2. REFER TO FASTENER SCHEDULE FOR ALL WOOD TO WOOD CONNECTIONS NOT SPECIFICALLY DETAILED.

SILL SCHEDULE	
SILL SIZE	MAX OPENING
(1)2x4	5'-0"
(2)2x4	7'-0"
(1)2x6	7'-3"
(2)2x6	10'-3"

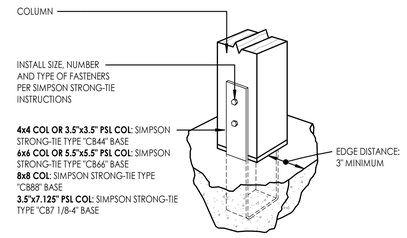
1 WOOD FRAMED CONSTRUCTION - 1 STORY
1/4" = 1'-0"



9 MULTI-PLY SAWN LUMBER BEAMS/HEADERS
3/4" = 1'-0"



6 TOP PLATE SPLICE
3/4" = 1'-0"



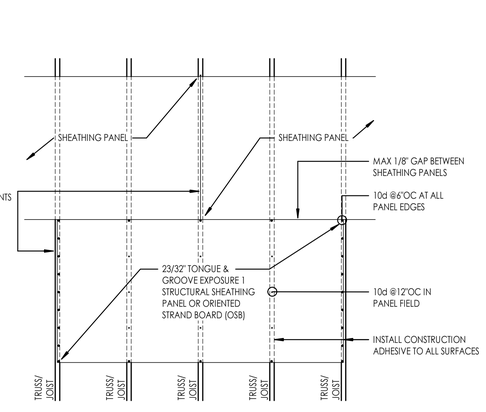
3 COLUMN BASE - HEAVY
3/4" = 1'-0"

MINIMUM FASTENER REQUIREMENTS FOR FRAMING							
CONNECTION	NUMBER OR SPACING OF FASTENERS REQUIRED PER CONNECTION						
	3 1/2 x0.162	3 x0.148	3 1/4 x0.131	3 x0.131	2 1/2 x0.131	3 1/4 x0.120	3 x0.120
	FLOOR FRAMING						
JOIST TO BAND JOIST	3	5	5	5	NA	6	6
LEDGER STRIP	3	4	4	4	6	4	4
JOIST TO SILL OR GIRDER	3	3	3	3	3	4	4
BLOCKING BTWN JOIST OR RAFTER TO TOP PLATE	3	3	3	4	3	4	4
BRIDGING TO JOIST	NA	NA	NA	NA	2	3	3
RIM JOIST TO TOP PLATE	8"OC	6"OC	6"OC	6"OC	6"OC	6"OC	4"OC
BUILT-UP GIRDERS AND BEAMS - SPACING ALONG EDGES - NUMBER AT ENDS AND SPLICES	24"OC 3	24"OC 3	24"OC 3	24"OC 3	16"OC 4	16"OC 3	16"OC 3
	CEILING AND ROOF FRAMING						
CEILING JOIST TO PLATE	3	4	5	5	5	5	5
CEILING JOISTS, LAPS OVER PARTITIONS	3	4	4	4	6	4	4
CEILING JOIST TO PARALLEL RAFTER	3	4	4	4	6	4	4
COLLAR TIE TO RAFTER	3	3	4	4	5	4	4
JACK RAFTER TO HIP, TOE NAILED	3	3	4	4	5	4	4
JACK RAFTER TO HIP, FACE NAILED	2	3	3	3	3	4	4
ROOF RAFTER TO PLATE	3	3	3	3	3	4	4
ROOF RAFTER TO 2x RIDGE BEAM (DRIVEN THRU BEAM INTO END OF RIDGE)	2	3	3	3	NA	4	4
ROOF RAFTER TO 2x RIDGE BEAM (TOE NAIL RAFTER TO BEAM)	2	3	3	3	3	4	4
	WALL FRAMING						
TOP OR SOLE PLATE TO STUD, END NAILED	2	3	3	3	5	4	4
STUD TO TOP OR SOLE PLATE, TOE NAILED	3	4	4	4	4	4	4
CAP/TOP PLATE LAPS AND INTERSECTIONS (EACH SIDE OF LAP)	2	3	3	3	4	3	3
DIAGONAL BRACING	2	2	2	2	2	3	3
SOLE PLATE TO JOIST OR BLOCKING AT BRACED PANELS (NUMBER PER 16' JOIST SPACE)	2	3	3	4	NA	4	4
SOLE PLATE TO JOIST OR BLOCKING	16"OC	8"OC	8"OC	8"OC	6"OC	8"OC	8"OC
DOUBLE TOP PLATE	16"OC	16"OC	12"OC	12"OC	8"OC	12"OC	12"OC
DOUBLE STUDS	12"OC	12"OC	8"OC	8"OC	6"OC	8"OC	8"OC
CORNER STUDS	24"OC	16"OC	16"OC	16"OC	8"OC	12"OC	12"OC

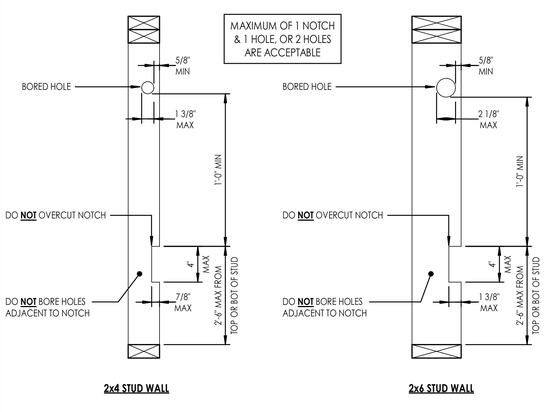
NOTES:

1. NAIL LENGTHS SHOWN ARE A MINIMUM NOMINAL LENGTH (IN INCHES). NAIL SHANK DIAMETERS SHOWN ARE A MINIMUM NOMINAL DIAMETER (IN INCHES).
2. THIS FASTENING SCHEDULE APPLIES TO FRAMING MEMBERS HAVING AN ACTUAL THICKNESS OF 1 1/2" (NOMINAL 2x LUMBER).
3. FASTENINGS LISTED ABOVE MAY ALSO BE USED FOR OTHER CONNECTIONS THAT ARE NOT LISTED BUT THAT HAVE THE SAME CONFIGURATION AND THE SAME CODE REQUIREMENT FOR FASTENER QUANTITY/SPACING AND FASTENER SIZE (PENNYWEIGHT AND STYLE).
4. WHERE OTHER DRAWING OR SPECIFICATION REQUIREMENTS CONFLICT WITH THIS SCHEDULE, THE MORE STRINGENT REQUIREMENT SHALL APPLY.

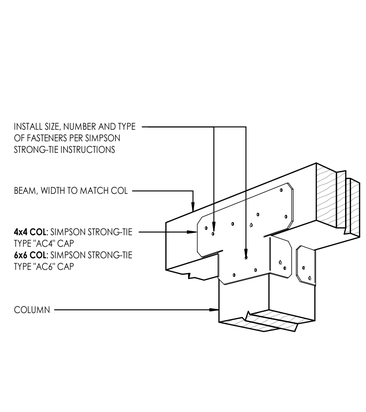
2 MINIMUM FASTENER REQUIREMENTS FOR FRAMING
3/4" = 1'-0"



10 FLOOR SHEATHING CONSTRUCTION
1/2" = 1'-0"



7 ALLOWABLE HOLES & NOTCHES IN STUDS
1 1/2" = 1'-0"



4 COLUMN CAP
3/4" = 1'-0"

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FRAZIER FARM PARK
SITE DESIGN
PROJECT ADDRESS
ROLESVILLE, NORTH CAROLINA

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT SEAL 026690 ENGINEER ROBERT T. MACIA
NOT FOR CONSTRUCTION

REVISIONS

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PLAN INFORMATION

PROJECT NO.	202011039
FILENAME	202011039-S1
CHECKED BY	PH
DRAWN BY	ALM
SCALE	N/A
DATE	05. 28. 2021

SHEET
WOOD FRAMING DETAILS

S121

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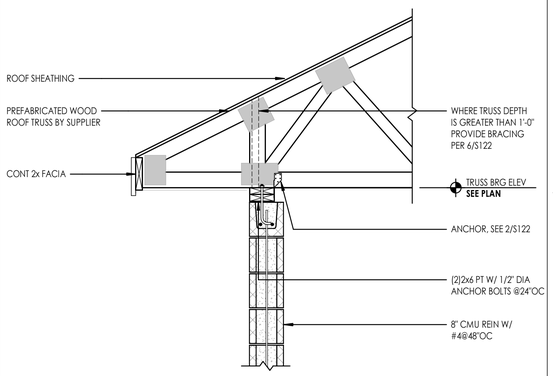
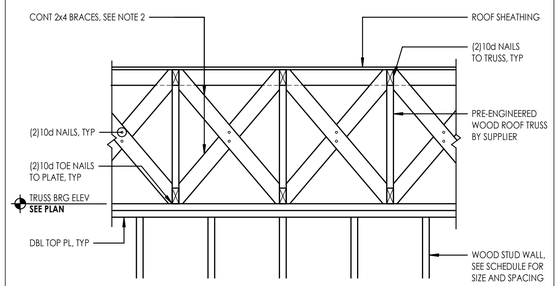
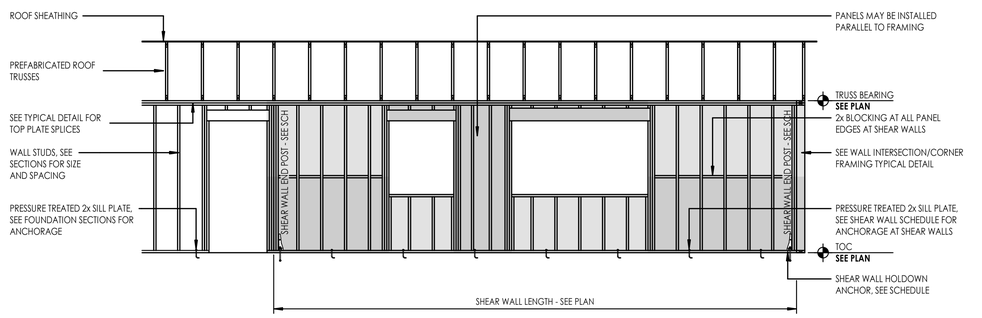


8 TYPICAL ROOF TRUSS ON BEARING WALL
3/4" = 1'-0"



NOTES:
1. SEE S--- FOR ADDITIONAL SHEAR WALL REQUIREMENTS.
2. AT INTERIOR SHEAR WALL LOCATIONS, PROVIDE BRACES AS CLOSE TO 1 TO 1 SLOPE AS POSSIBLE. BRACE MAY NEED TO PASS THROUGH MULTIPLE TRUSSES (3 MAX) TO ACHIEVE SLOPE.

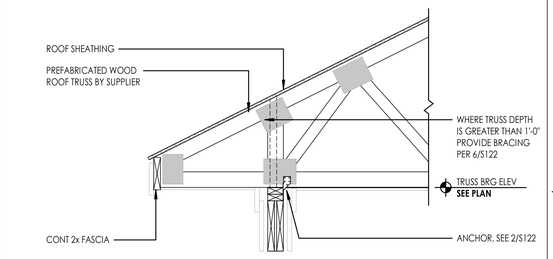
5 TYPICAL BRACING BETWEEN ROOF TRUSSES AT SHEAR WALLS
3/4" = 1'-0"



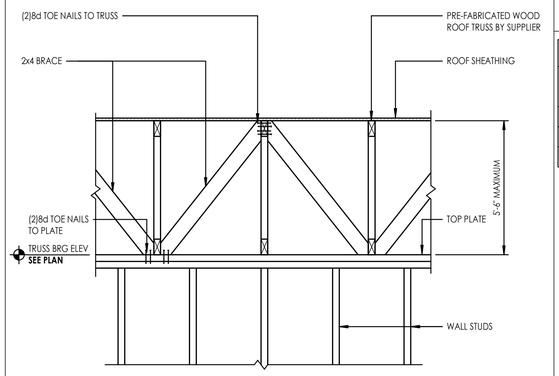
WOOD SHEAR WALL SCHEDULE

MARK	SHEATHING	NAILS	NAIL SPACING: ALL PANEL EDGES	NAIL SPACING: PANEL FIELD	END CONDITION: END POST	END CONDITION: HOLDOWN ANCHOR & DETAIL	SILL PLATE ANCHORAGE AND SPACING	NOTES
SW1	7/16" OSB	8d	4"OC	12"OC	(3)2x6	HDU4 = 3/S122	1/2" DIA ANCHOR BOLTS @24"OC	
SW2	7/16" OSB	8d	4"OC	12"OC	(2)2x6	HDU4 = X/SXXXX	1/2" DIA ANCHOR BOLTS @24"OC	
SW3	7/16" OSB	8d	4"OC	12"OC	(2)2x6	N/A	1/2" DIA ANCHOR BOLTS@18"OC	
SW4	7/16" OSB	8d	6"OC	12"OC	(2)2x6	N/A	1/2" DIA ANCHOR BOLTS@36"OC	

1 SHEAR WALL CONSTRUCTION - 1 STORY
1/4" = 1'-0"



9 SECTION
3/4" = 1'-0"

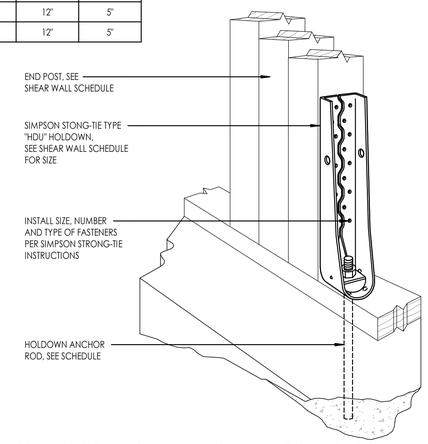


6 BRACING AT ROOF TRUSSES
3/4" = 1'-0"

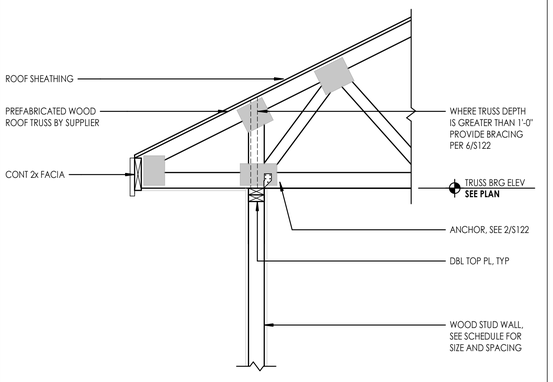
ANCHOR ROD SCHEDULE

HOLDOWN	DIAMETER	MINIMUM EMBEDMENT: EDGE	MINIMUM EMBEDMENT: INTERIOR
HDU2	5/8"	9 1/2"	5"
HDU4	5/8"	12"	5"
HDU5	5/8"	12"	5"

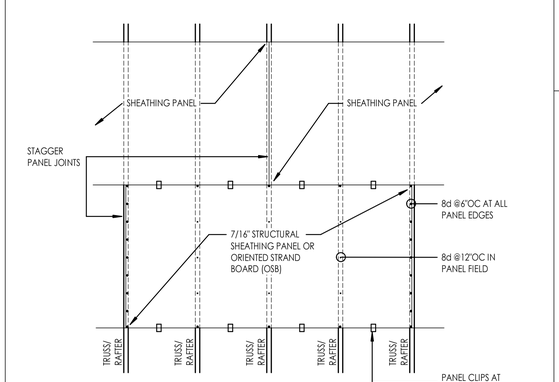
NOTES:
1. SET ANCHOR RODS IN SIMPSON STONG-TIE ET-HP EPOXY ADHESIVE.
2. EDGE DISTANCE BASED ON DIMENSION FROM CENTER OF ANCHOR TO EDGE OF CONCRETE OF 1 3/4" AND 5" AT CORNER.



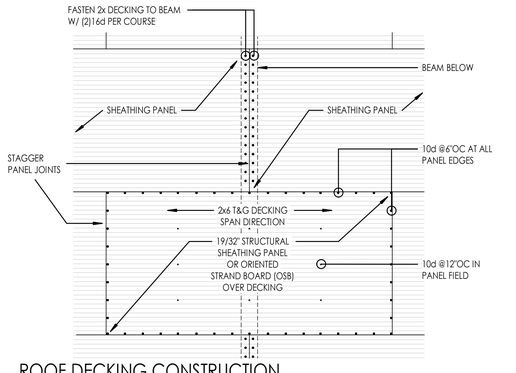
3 SIMPSON STRONG-TIE - "HDU" HOLDOWN AT FOUNDATION
3/4" = 1'-0"



10 TYPICAL ROOF TRUSS ON BEARING WALL
3/4" = 1'-0"

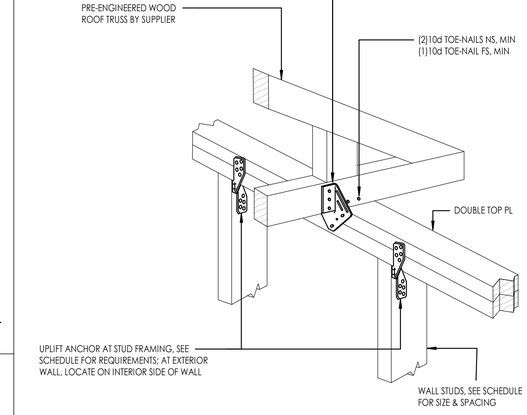


7 ROOF SHEATHING CONSTRUCTION
1/2" = 1'-0"



4 ROOF DECKING CONSTRUCTION
1/2" = 1'-0"

SIMPSON STRONG-TIE ANCHORS AS FOLLOWS FOR SPRUCE PINE FIR FRAMING:
SINGLE-PLY TRUSSES: H5 (265 LBS MAX UPLIFT)
SINGLE-PLY TRUSSES: H10A (1,015 LBS MAX UPLIFT)
SINGLE-PLY TRUSSES: (2)MTS16 (1,720 LBS MAX UPLIFT)
DOUBLE-PLY GIRDER TRUSSES: H10-2 (655 LBS MAX UPLIFT)
DOUBLE-PLY GIRDER TRUSSES: H14 (1,050 LBS MAX UPLIFT)
DOUBLE-PLY GIRDER TRUSSES: LGT2 (1,785 LBS MAX UPLIFT)



STUD UPLIFT ANCHOR REQUIREMENTS
SPRUCE PINE FIR FRAMING, TRUSS SPACING @24"OC

TRUSS REACTION	ANCHOR TYPE
LESS THAN 330 LBS	NONE
330 LBS TO 1,100 LBS	H2.5A
1,100 LBS TO 2,250 LBS	H2.5A PLUS H6
GREATER THAN 2,250 LBS	CONTACT ENGR

NOTES:
1. MAXIMUM WALL STUD SPACING 16"OC.
2. CONTRACTOR TO SELECT TRUSS ANCHOR BASED ON APPROVED TRUSS SHOP DRAWING WITH TRUSS REACTIONS.
3. TRUSS MANUFACTURER OR CONTRACTOR SHALL REQUEST FOR ADDITIONAL HOLDOWN ANCHORS AT TRUSS GIRDER, MULTI-PLY TRUSSES, JACK TRUSSES, AND HIP AND VALLEY TRUSSES.
4. MULTIPLE ANCHORS MAY BE USED (PER SIMPSON STRONG-TIE RECOMMENDED CONSTRUCTION DETAILS) TO ACHIEVE HIGHER UPLIFT VALUES.
5. DETAIL APPLIES TO BOTH INTERIOR AND EXTERIOR BEARING WALLS.

2 DETAIL - ROOF TRUSS ANCHORS
3/4" = 1'-0"

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NORTH CARO. NOT FOR CONSTRUCTION SEAL 026690 ENGINEER ROBERT T. MACIA

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SCALE	N/A
DATE	05. 28. 2021

SHEET
WOOD FRAMING DETAILS

S122

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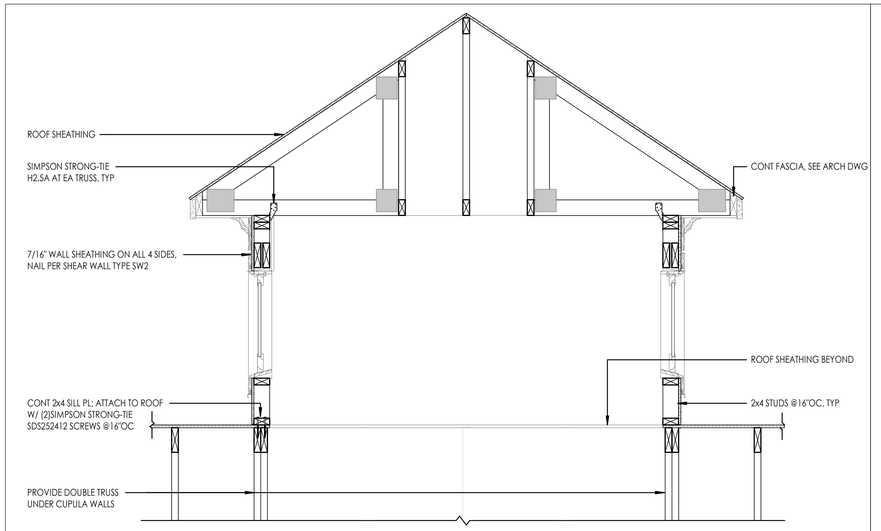
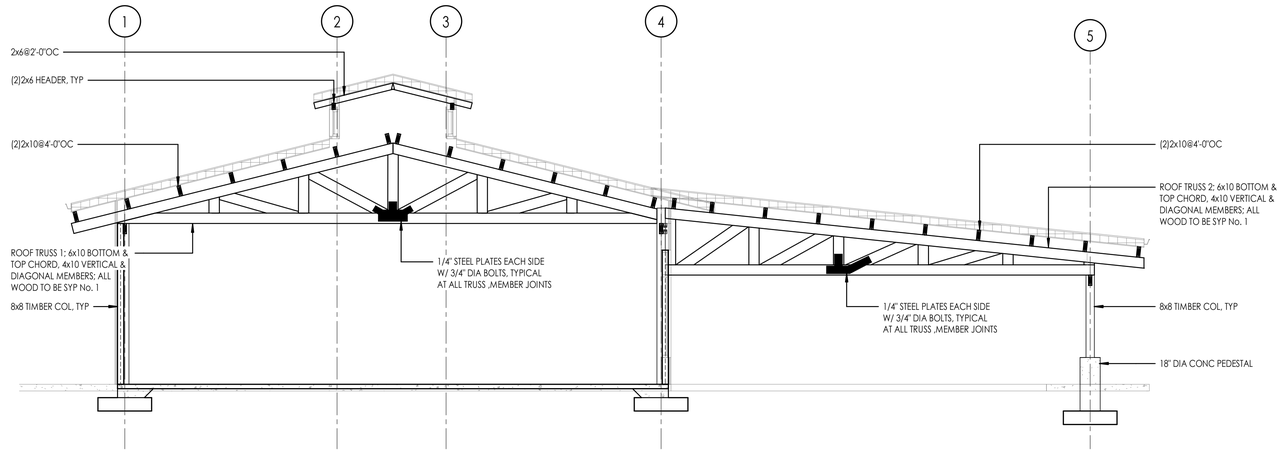
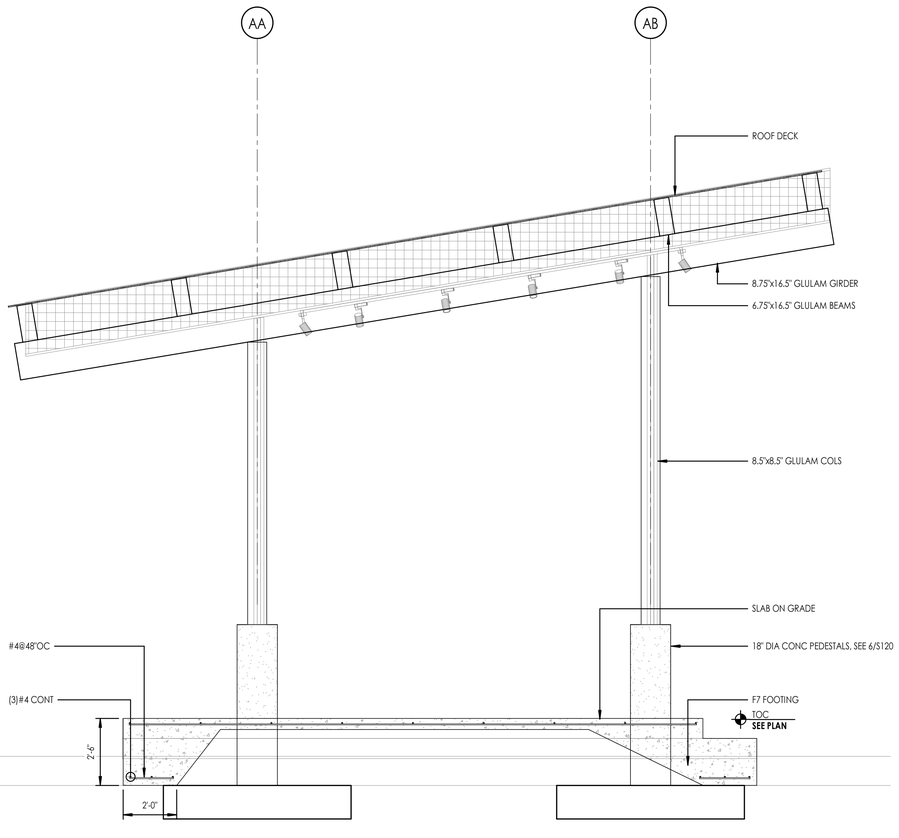


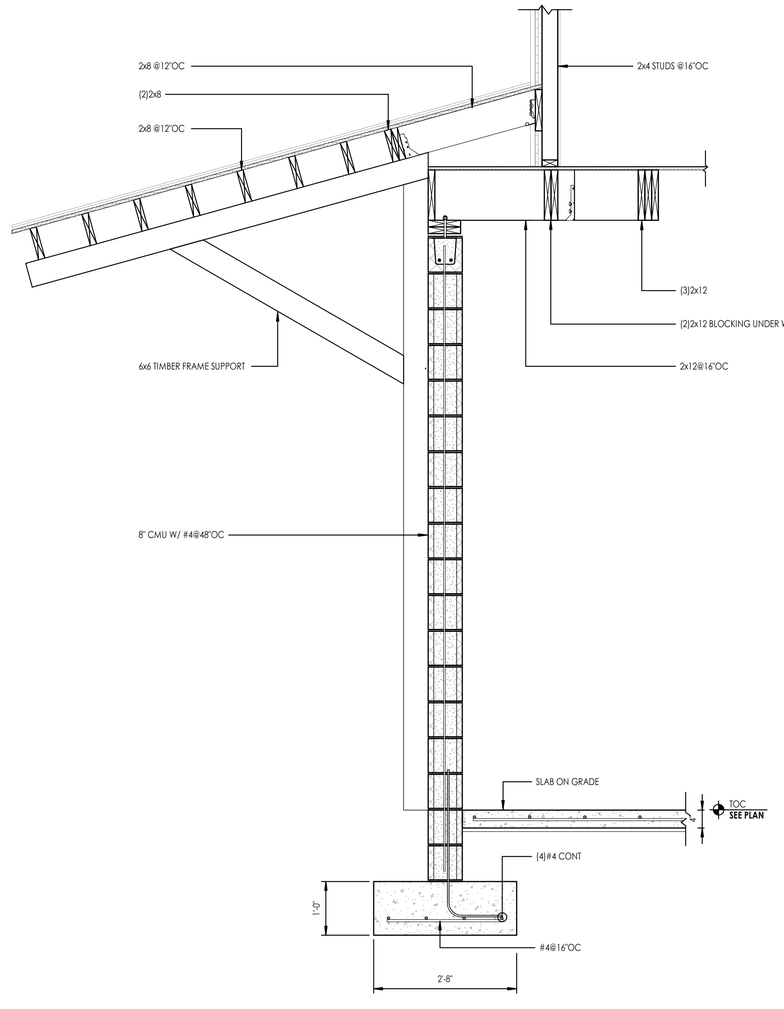
4 SECTION
3/4" = 1'-0"



1 SECTION - EVENTS CENTER
3/16" = 1'-0"



3 SECTION - AMPHITHEATER
3/8" = 1'-0"



2 SECTION
3/4" = 1'-0"

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026690
ENGINEER
ROBERT T. MACIA
NORTH CAROLINA

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SHEET
SECTIONS

S123

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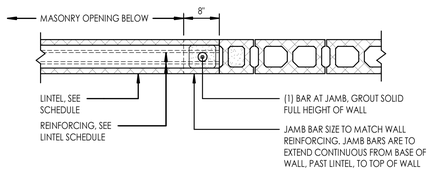


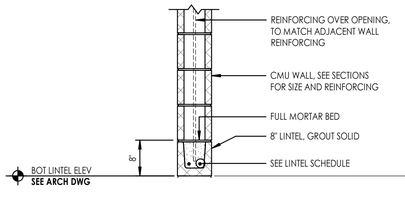
PLAN AT JAMB

NON-LOAD BEARING CMU LINTEL SCHEDULE

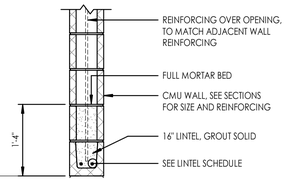
OPENING SIZE	LINTEL SIZE (WIDTH x DEPTH)					
	6"x8"	6"x16"	8"x8"	8"x16"	12"x8"	12"x16"
≤5'-4"	(1)#4	-	(1)#4	-	(1)#5	-
5'-5" TO 7'-4"	(1)#6	-	(2)#4	-	(2)#5	-
7'-5" TO 9'-4"	-	(1)#5	-	(2)#4	-	(2)#5
9'-5" TO 11'-4"	-	(1)#6	-	(2)#4	-	(2)#5
11'-5" TO 13'-4"	-	-	-	(2)#5	-	(2)#6

NOTES:

1. SCHEDULE APPLIES TO ALL NON-LOAD BEARING CMU PARTITIONS. SEE ARCHITECTURAL DRAWING FOR LOCATION OF ALL PARTITIONS AND OPENINGS REQUIRING LINTELS.

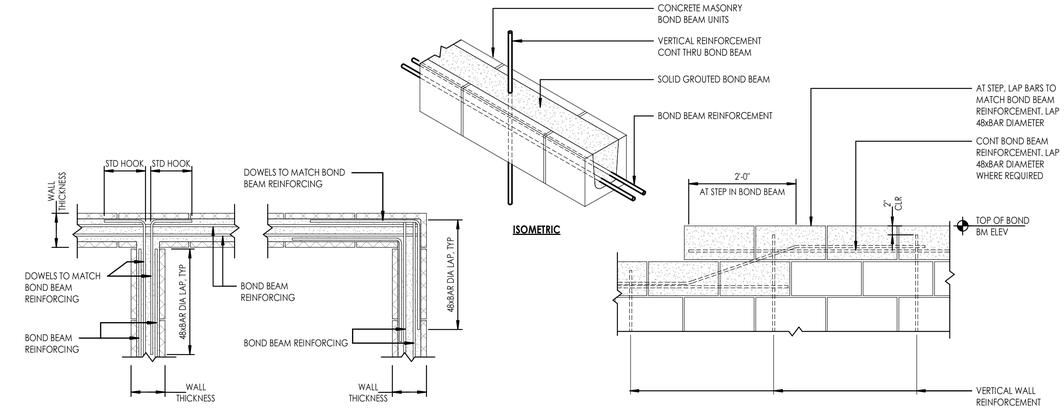


SECTION : 8" LINTEL



SECTION : 16" LINTEL

4 CMU LINTEL SCHEDULE NON-LOAD BEARING
3/4" = 1'-0"



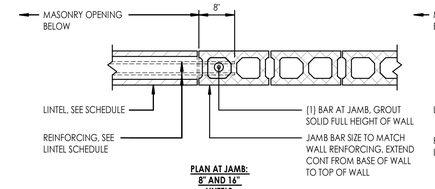
1 CMU BOND BEAM DETAILS
3/4" = 1'-0"

LOAD BEARING CMU LINTEL SCHEDULE

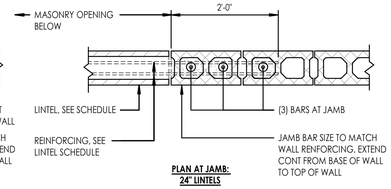
LINTEL MARK	LINTEL SIZE
ML1	8"x8" W/ (2)#5
ML2	8"x16" W/ (2)#5
ML3	8"x24" W/ (2)#5 T&B

NOTES:

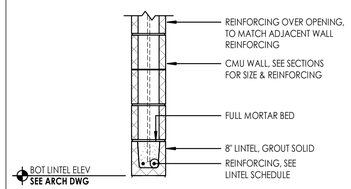
1. SCHEDULE APPLIES TO ALL LOAD BEARING CMU WALLS. SEE PLANS FOR LOCATION OF ALL LOAD BEARING LINTELS.



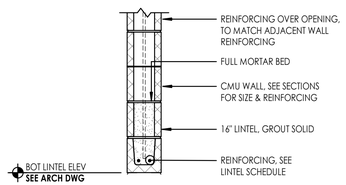
PLAN AT JAMB: 8" AND 16" LINTELS



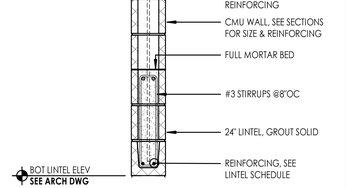
PLAN AT JAMB: 24" LINTELS



SECTION: 8" LINTEL



SECTION: 16" LINTEL



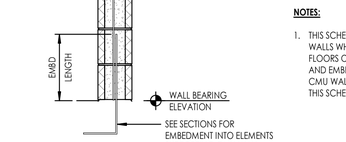
SECTION: 24" LINTEL

2 CMU LINTEL SCHEDULE - LOAD BEARING
3/4" = 1'-0"

ELEVATION "A"
GROUPED UTILITY PENETRATION

NOTES:

1. OPENINGS OR PENETRATIONS IN CMU WALLS FOR UTILITES LESS THAN 8" IN GREATEST DIMENSION DO **NOT** REQUIRE LINTELS PROVIDED THERE IS A MINIMUM OF AT LEAST 4" CLEAR BETWEEN ADJACENT OPENINGS.
2. ADJACENT OPENINGS OR PENETRATIONS CLOSER THAN 4' SHOULD BE TREATED AS A SINGLE OPENING PER ELEVATION "A" AND A LINTEL SHALL BE PROVIDED AS SCHEDULED FOR THE "EFFECTIVE SPAN".

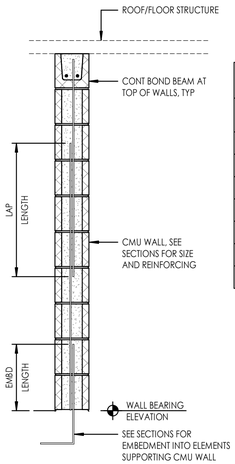


CMU WALL: PLAN VIEW
SPACING REQUIRED FOR UTILITY PENETRATION

NOTES:

1. CONDUIT MAY **NOT** VERTICALLY PENETRATE BOND BEAMS OR LINTELS.

5 UTLITIES THROUGH AND WITHIN CMU WALL
3/4" = 1'-0"



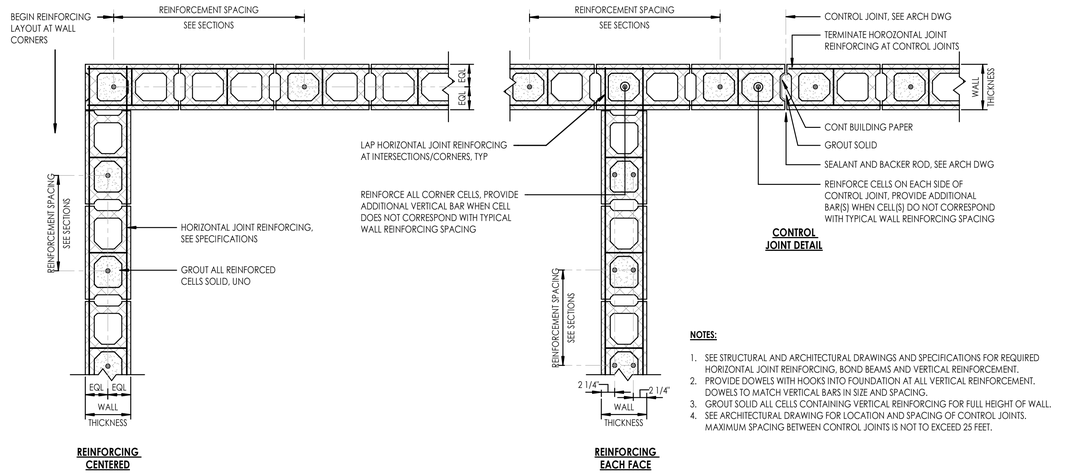
CMU REINFORCING LAP AND EMBEDMENT SCHEDULE

BAR SIZE	LAP LENGTH	EMBEDMENT LENGTH
#3	28"	16"
#4	36"	20"
#5	48"	28"
#6	56"	32"
#7	64"	36"
#8	72"	40"
#9	84"	48"

NOTES:

1. THIS SCHEDULE APPLIES TO REINFORCED CMU WALLS WHICH ARE BRACED/CONNECTED TO FLOORS OR ROOF AT THE TOP OF THE WALL. LAPS AND EMBEDMENT LENGTHS FOR CANTILEVERED CMU WALLS ARE NOT TO BE DETERMINED USING THIS SCHEDULE.

6 MINIMUM LAP AND EMBEDMENT LENGTH SCHEDULE
3/4" = 1'-0"



NOTES:

1. SEE STRUCTURAL AND ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR REQUIRED HORIZONTAL JOINT REINFORCING, BOND BEAMS AND VERTICAL REINFORCEMENT.
2. PROVIDE DOWELS WITH HOOKS INTO FOUNDATION AT ALL VERTICAL REINFORCEMENT. DOWELS TO MATCH VERTICAL BARS IN SIZE AND SPACING.
3. GROUT SOLID ALL CELLS CONTAINING VERTICAL REINFORCING FOR FULL HEIGHT OF WALL.
4. SEE ARCHITECTURAL DRAWING FOR LOCATION AND SPACING OF CONTROL JOINTS. MAXIMUM SPACING BETWEEN CONTROL JOINTS IS NOT TO EXCEED 25 FEET.

3 TYPICAL CMU WALL REINFORCING
1" = 1'-0"

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

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919.825.0295

FIRM LICENSE #P-1591
SCALENE DESIGN
PROJECT NO:
S20-058.00

FRAZIER FARM PARK
SITE DESIGN
PROJECT ADDRESS
ROLESVILLE, NORTH CAROLINA

NOT FOR CONSTRUCTION
NORTH CAROLINA
SEAL
026690
ENGINEER
ROBERT T. MACIA

REVISIONS

NO.	DATE	
1	XX. XX. XXXX	REVISION DESCRIPTION
2	XX. XX. XXXX	REVISION DESCRIPTION

PLAN INFORMATION

PROJECT NO.	202011039
FILENAME	202011039-S1
CHECKED BY	PH
DRAWN BY	ALM
SCALE	N/A
DATE	05. 28. 2021

SHEET
CMU DETAILS

S130

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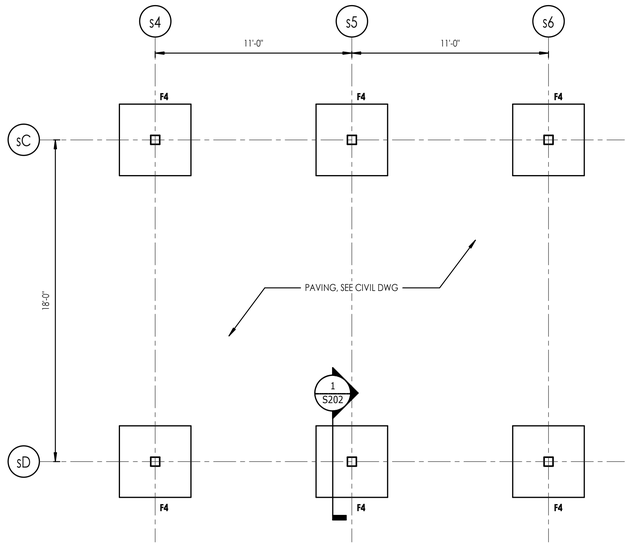
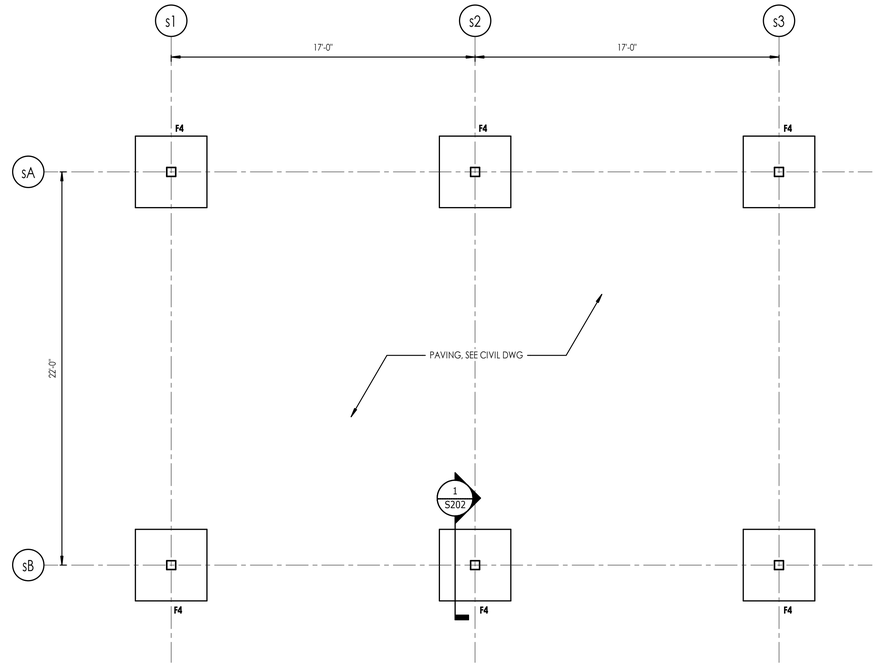
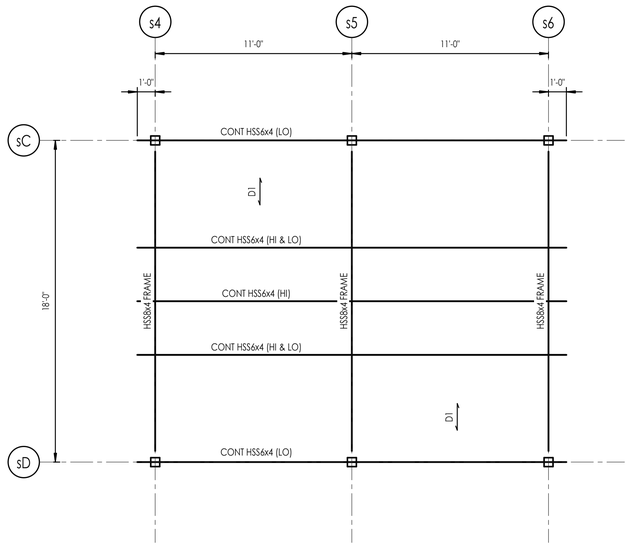


3 PICNIC SHELTER (SMALL) - FOUNDATION PLAN
1/4" = 1'-0"



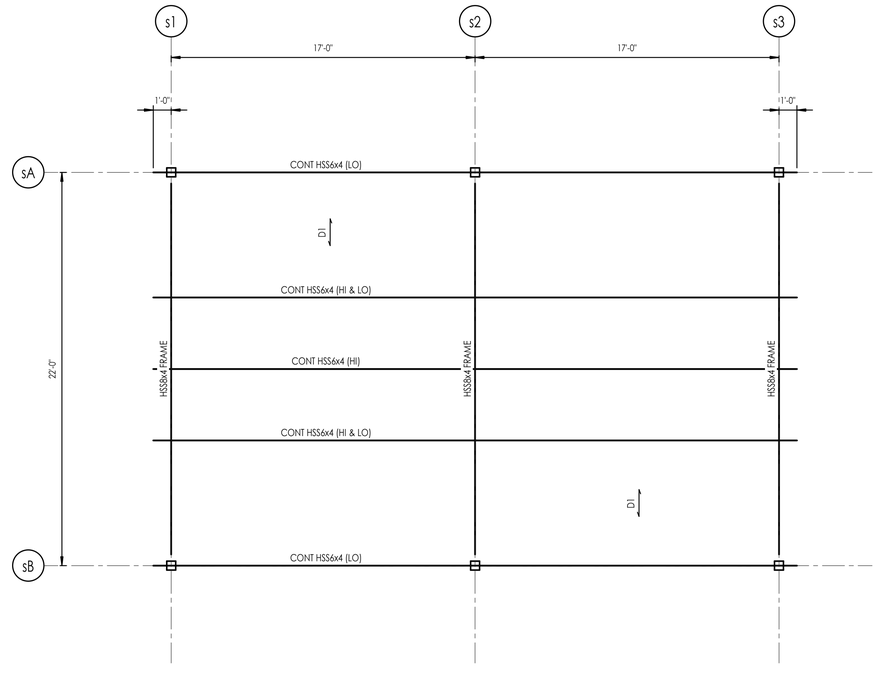
1 PICNIC SHELTER (LARGE) - FOUNDATION PLAN
1/4" = 1'-0"



NOTES:

1. SEE S110 FOR GENERAL STRUCTURAL NOTES AND ABBREVIATION LEGEND.
2. **D1** INDICATES 2x6 SOUTHERN YELLOW PINE TOUNGUE AND GROOVE DECKING

4 PICNIC SHELTER (SMALL) - ROOF FRAMING PLAN
1/4" = 1'-0"



NOTES:

1. SEE S110 FOR GENERAL STRUCTURAL NOTES AND ABBREVIATION LEGEND.
2. **D1** INDICATES 2x6 SOUTHERN YELLOW PINE TOUNGUE AND GROOVE DECKING

2 PICNIC SHELTER (LARGE) - ROOF FRAMING PLAN
1/4" = 1'-0"

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NORTH CAROLINA

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SHEET

PICNIC SHELTER FOUNDATION/ROOF FRAMING PLANS

S201

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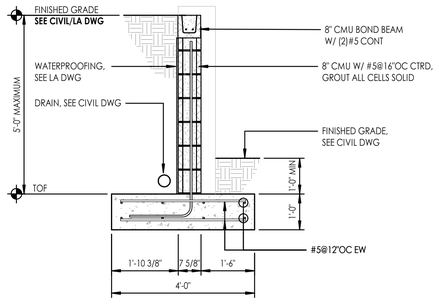
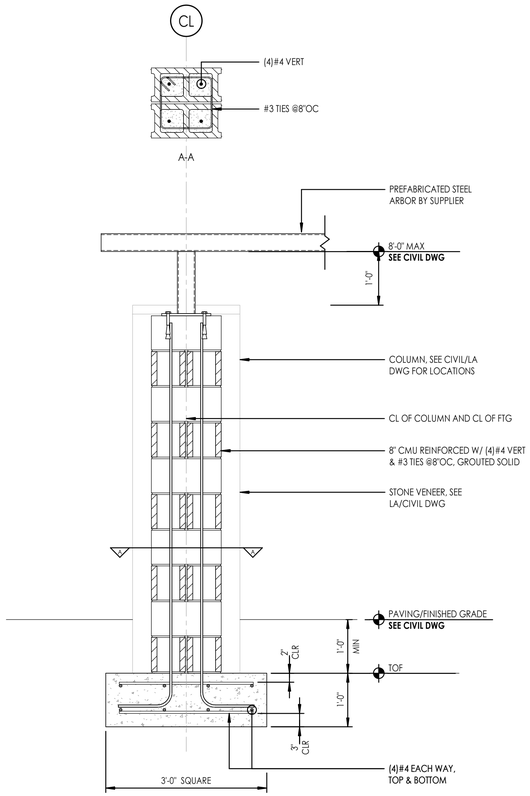
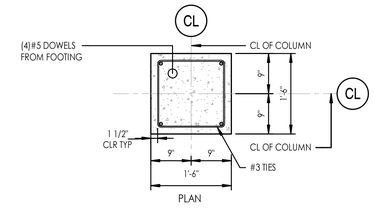
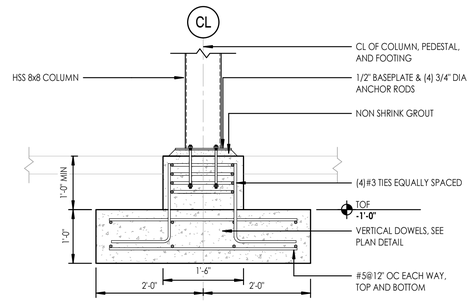


5 CMU RETAINING WALL
1/2" = 1'-0"

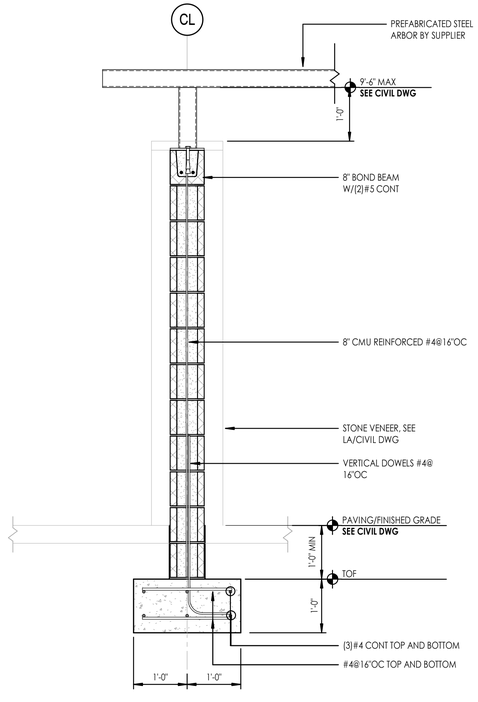


3 DETAIL - CURVED ARBOR COLS
3/4" = 1'-0"

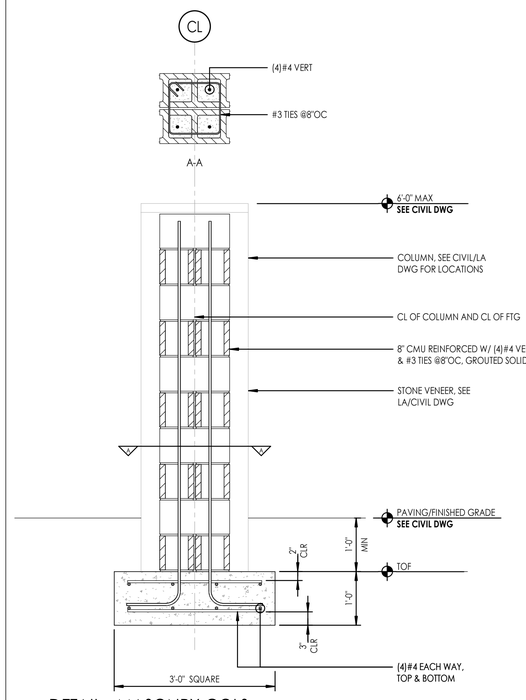




1 COLUMN PEDESTAL
3/4" = 1'-0"



4 DETAIL - TRELLIS WALLS
3/4" = 1'-0"



2 DETAIL - MASONRY COLS
3/4" = 1'-0"

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SHEET
SECTIONS & DETAILS

S202

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