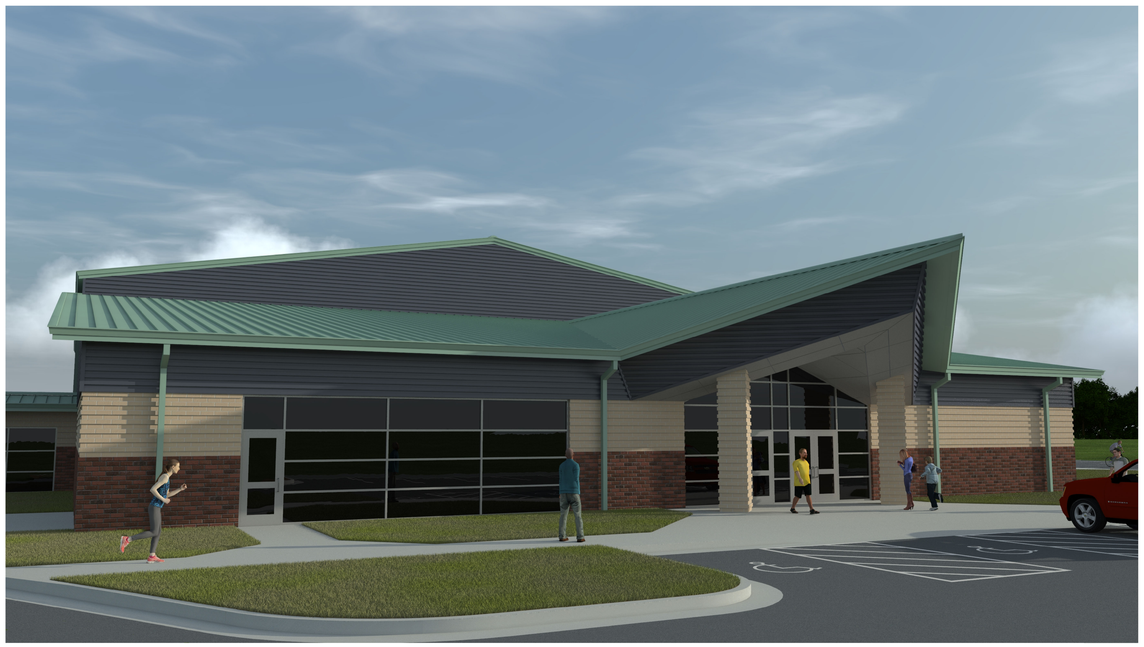
Community Center and Gymnasium for

Alice F. Keene District Park

4561 County Home Rd / Pitt County / North Carolina



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ARCHITECTURE / PLANNING / TECHNOLOGY

2600 Meridian Drive / Greenville, N.C. 27834 / tel 252-757-0333

STRUCTURAL CONSULTANT:

QUEEN ENGINEERING & DESIGN, P.A.

5530 Munford Road Raleigh, North Carolina 27612 tel (919) 420-0480

CIVIL CONSULTANT:

RIVERS AND ASSOCIATES, INC.

107 East 2nd Street Greenville, North Carolina 27858 tel (252) 752-4135

MEPT ENGINEERING CONSULTANT:

ENGINEERING SOURCE, P.A

102 Regency Boulevard Greenville, North Carolina 27834 tel (252) 439-0338

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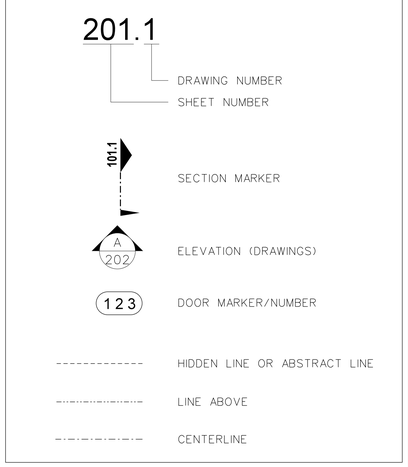
ABBREVIATIONS

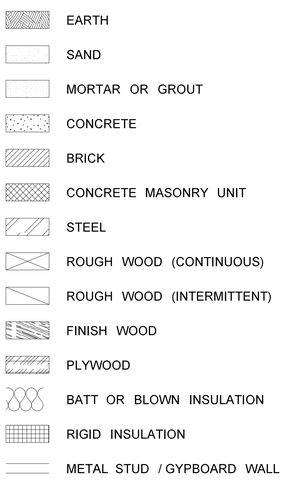
AFF	ABOVE FINISH FLOOR	INV	INVERT
L	ANGLE	JT	JOINT
AB	ANCHOR BOLT	LAV	LAVATORY
@	AT	MAS	MASONRY
B/B	BACK TO BACK (CURB)	MAX	MAXIMUM
BRG	BEARING	MB	MARKER BOARD
BD	BOARD	MET	METAL
BC	BRICK COURSE	MC	MECHANICAL CONTRACTOR
BLDG	BUILDING	MT	METAL THRESHOLD
CI	CAST IRON	MIN	MINIMUM
CPT	CARPET	MISC	MISCELLANEOUS
CB	CATCH BASIN	NOM	NOMINAL
CLG	CEILING	N	NORTH
CT	CEILING TILE	NIC	NOT IN CONTRACT
CB	CHALKBOARD	NTS	NOT TO SCALE
CJ	CONSTRUCTION JOINT	OC	ON CENTER
CONC	CONCRETE	OPG	OPENING
CMU	CONCRETE MASONRY UNIT	OPP	OPPOSITE
CG	CORNER GUARD	PC	PLUMBING CONTRACTOR
CMP	CORRUGATED METAL PIPE	PLAS	PLASTER
CONT.	CONTINUOUS	PL	PLATE
C & R	CURTAIN & ROD	PT	PRESSURE TREATED
C & T	CURTAIN & TRACK	R	RADIUS
DIA	DIAMETER	REF	REFERENCE
DIM	DIMENSION	RENIF	REINFORCED
DS	DOWNSPOUT	RCP	REINFORCE CONCRETE PIPE
DWR	DRAWER	REQ'D	REQUIRED
EA	EACH	RFS	RUBBER FASTENING STRIP
EC	ELECTRICAL CONTRACTOR	RI	RIGID INSULATION
EIFS	EXTERIOR INSULATION & FIN SYSTEM	R/W	RIGHT OF WAY
ELECT	ELECTRICAL	RD	ROOF DRAIN
EWC	ELECTRIC WATER COOLER	RDL	ROOF DRAIN LEADER
ELEV	ELEVATION	RGH	ROUGH
EQ	EQAUL	SC	SITE CONTRACTOR
ETR	EXISTING TO REMAIN	SCHED	SCHEDULED
EXIST	EXISTING	SH	SHELF
EXP	EXPOSED, EXPANSION	SHTG	SHEATHING
EJ	EXPANSION JOINT	SIM	SIMILAR
F/F	FACE TO FACE (CURB)	SPEC	SPECIFIED
FIN	FINISH	SPECS	SPECIFICATIONS
FE	FIRE EXTINGUISHER	STD	STANDARD
FEC	FIRE EXTINGUISHER CABINET	SUSP	SUSPENDED
FHC	FIRE HOSE CABINET	TB	TACKBOARD
FTG	FOOTING	TYP	TYPICAL
FD	FLOOR DRAIN	TJC	TYPICAL CONTROL JOINT
FL	FLOOR	UON	UNLESS OTHERWISE NOTED
FSR	FLEXIBLE SHEET ROOFING	UR	URINAL
GB	GYPSUM WALLBOARD	VB	VAPOR BARRIER
GC	GENERAL CONTRACTOR	VERT	VERTICAL
HM	HOLLOW METAL	VCT	VINYL COMPOSITION TILE
HOR	HORIZONTAL	WC	WATER CLOSET
IC	INTEGRATED COMMUNICATIONS	WWF	WELDED WIRE FABRIC
INSUL	INSULATION	W/	WITH

DRAWING SYMBOLS

DRAWING IDENTIFICATION MARKERS



MATERIAL SYMBOLS



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No.	Date	Revision

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ARCHITECTURE / PLANNING / TECHNOLOGY
2600 Meridian Drive / Greenville, NC 27834 / tel (252) 757-0333

HITE ASSOCIATES, P.C. — ARCHITECTURAL CORPORATION — REGISTERED — LICENSE NUMBER C-0418 — GREENVILLE, NC

JAMES GRAY HITE — REGISTERED ARCHITECT 3754 — GREENVILLE, NC

COMMUNITY CENTER AND GYMNASIUM FOR

Alice F. Keene District Park

4561 County Home Road, Greenville, NC 27858

Project No. 22207

Date: December 1, 2022

Drawing no. T-1

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Building Code Summary
Addition

Name of Project: Alice F. Keene District Park
Address: 4561 County Home Road, Greenville, NC
Proposed Use: Assembly
Owner or Authorized Agent: James G. Hite Phone No. (252) 757-0333 e-mail jgh@hiteassoc.com
Owned by: [X] City/County [ ] Private [ ] State
Code Enforcement Jurisdiction: [X] City [ ] County [ ] State

LEAD DESIGN PROFESSIONAL: James G. Hite, AIA

Designer	Firm	Name	License *	Telephone *	e-mail
Architectural	Hite Associates	James G. Hite, AIA	NC 3754	(252) 757-0333	jgh@hiteassoc.com
Civil	Rivers & Associates	Stephen Janowski, P.E.	NC 12324	(252) 714-3002	sjanowski@riversandassociates.com
Electrical	Engineering Source	Wilson Pou, P.E.	NC 021993	(252) 439-0338	Wilson@engrsource.com
Fire Alarm	Engineering Source	Wilson Pou, P.E.	NC 021993	(252) 439-0338	Wilson@engrsource.com
Plumbing	Engineering Source	Wilson Pou, P.E.	NC 021993	(252) 439-0338	Wilson@engrsource.com
Mechanical	Engineering Source	Wilson Pou, P.E.	NC 021993	(252) 439-0338	Wilson@engrsource.com
Sprinkler-Standpipe	NA				
Structural	Queen Engineering	Bruce Queen, P.E.	NC 018991	(919) 420-0480	bruce@qedpa.net
Retaining Walls>5' High	NA				
Other	NA				

2018 EDITION OF NC CODE FOR: [ ] New Construction [X] Addition [ ] Upfit

EXISTING: [ ] Reconstruction [ ] Alteration [ ] Repair [ ] Renovation

CONSTRUCTED _____ ORIGINAL USE _____

RENOVATED _____ CURRENT USE _____ PROPOSED USE _____

BUILDING DATA

Construction Type: [ ] I-A [ ] II-A [ ] III-A [ ] IV [ ] V-A
[ ] I-B [X] II-B [ ] III-B [ ] V-B
Mixed Construction: [X] No [ ] Yes Types _____

Sprinklers:
Ground Floor [ ] No [X] Yes [ ] Partial [X] NFPA 13 [ ] NFPA 13R [ ] NFPA 13D
Equipment Platform [ ] No [ ] Yes [ ] Partial [ ] NFPA 13 [ ] NFPA 13R [ ] NFPA 13D
Standpipes: [X] No [ ] Yes Class [ ] I [ ] II [ ] III [ ] Wet [ ] Dry
Fire District: [ ] No [X] Yes Flood Hazard Area: [X] No [ ] Yes
Building Height: Feet: 32' Number of Stories: 1
Mezzanine: [X] No [ ] Yes

Gross Building Area:

Floor	Existing (SQ FT)	New (SQ FT)	Sub-Total
Equipment Platform			
Third Floor			
Second Floor			
First Floor			24,186
Total			24,186

ALLOWABLE AREA

Primary Occupancy:
Assembly [ ] A-1 [ ] A-2 [X] A-3 [ ] A-4 [ ] 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-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
[ ] Utility and Miscellaneous

Accessory Occupancy Classification(s): Business, S-1
Incidental Uses (Table 509): NA
This Separation is not exempt as a Non-Separated Use (see exceptions)
Special Uses (Chapter 4 - List code Sections): NA
Special Provisions (Chapter 5 - List code Sections): NA

Mixed Occupancy: [ ] No [X] Yes Separation: Hr: Exception:

[X] Non-Separated Use (508.3)
The required type of construction of the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.

[ ] 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.

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

$$\frac{0}{0} + \frac{0}{0} + 0 \leq 1.00$$

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2 AREA a	(C) AREA FOR OPEN SPACE INCREASE 1.5	(D) ALLOWABLE AREA OR UNLIMITED 2,3
1	Assembly (A-3)	24,186	38,000	0	38,000

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

ALLOWABLE HEIGHT

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet (Table 504.3)	Feet 75	32	
Building Height in Stories (Table 504.4)	Stories 3	1	

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING REQ'D	RATING PROVIDED (W/ REDUCTION) *	DETAIL NO. AND SHEET NO.	DESIGN NO. FOR RATED ASSEMBLY	DESIGN NO. FOR RATED PENETRATION	DESIGN NO. FOR RATED JOIST
Structural frame, including columns, girders, trusses		NA	NA	NA	NA	NA	NA
Bearing walls							
Exterior							
North	NA	NA	NA	NA	NA	NA	NA
East	NA	NA	NA	NA	NA	NA	NA
West	NA	NA	NA	NA	NA	NA	NA
South	NA	NA	NA	NA	NA	NA	NA
Interior	NA	NA	NA	NA	NA	NA	NA
Nonbearing walls and partitions Exterior							
North	NA	NA	NA	NA	NA	NA	NA
East	NA	NA	NA	NA	NA	NA	NA
West	NA	NA	NA	NA	NA	NA	NA
South	NA	NA	NA	NA	NA	NA	NA
Interior		NA	NA	NA	NA	NA	NA
Floor construction including support beams and joist		NA	NA	NA	NA	NA	NA
Above Corridor		NA	NA	NA	NA	NA	NA
Columns Supporting Floors							
Roof construction including support beams and joist		NA	NA	NA	NA	NA	NA
Roof Ceiling Assembly		NA	NA	NA	NA	NA	NA
Columns Supporting Roof		NA	NA	NA	NA	NA	NA
Shafts - Exit		NA	NA	NA	NA	NA	NA
Shafts - Other		NA	NA	NA	NA	NA	NA
Corridor Separation		NA	NA	NA	NA	NA	NA
Occupancy Separation		NA	NA	NA	NA	NA	NA
Party/Fire Wall Separation		NA	NA	NA	NA	NA	NA
Fire Barrier Separation		2	NA	406.2	U905	NA	NA
Smoke Partition		NA	NA	NA	NA	NA	NA
Tenant Separation		NA	NA	NA	NA	NA	NA
Incidental Use Separation		NA	NA	NA	NA	NA	NA

* ICC Approved Assembly

PERCENTAGE OF WALL AREA CALCULATIONS

FIRE SEPARATION DISTANCE FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA	ACTUAL SHOWN ON PLANS
>30	Unprotected, Nonsprinkled	No Limit	NA

LIFE SAFETY SYSTEM REQUIREMENTS

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

Life Safety Plan Sheet *: LS-001

[X] Fire and/or smoke rated wall locations (Chapter 7)
[ ] Assumed and real property line locations
[ ] Exterior wall opening area with respect to distance to assumed property lines (705.8)
[X] Occupancy types 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)
[ ] Common path of travel distances (Tables 1006.2.1 & 1006.3.2(1))
[ ] 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)

LOT OR PARKING AREA	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

ACCESSIBLE PARKING (SECTION 1106)

LOT OR PARKING AREA	TOTAL NO. OF PARKING SPACES		NO. OF ACCESSIBLE SPACES REQUIRED / PROVIDED			TOTAL NO. ACCESSIBLE PROVIDED
	REQUIRED	PROVIDED	REGULAR WITH 5' ACCESS AISLE	VAN SPACES WITH 132" ACCESS AISLE	VAN SPACES WITH 8' ACCESS AISLE	
Existing		41			2	2
New		84			4	4
TOTAL		125			6	6

PLUMBING FIXTURE REQUIREMENTS - ENTIRE FACILITY

USE		WATERCLOSETS		URINALS	LAVATORIES		SHOWERS/ TUBS	DRINKING FOUNTAINS	
		MALE	FEMALE		MALE	FEMALE		REGULAR	ACCESSIBLE
Assembly	NEW	4	8	3	4	4		1	1
	EXISTING	2	5	3	3	3		1	1
	REQ'D	4	12	3	4	4		2	2
	NEW								
	EXISTING								
	REQ'D								
	NEW								
	EXISTING								
	REQ'D								

SPECIAL APPROVALS

Special approval: (Local Jurisdiction, Department of Insurance, SBCCI, ICC, etc., describe below)

None

ENERGY SUMMARY

ENERGY REQUIREMENTS:

The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs. annual energy cost for the proposed design.

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

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

THERMAL ENVELOPE

Roof/ceiling Assembly (each assembly)
Description of assembly: METAL DECK / BATT INSULATION / ACOUSTICAL TILE
U-Value of total assembly: 0.031
R-Value of insulation: 30
Skylights in each assembly: NONE
U-Value of skylight: N/A
total square footage of skylights in each assembly: N/A

Exterior Walls (each assembly)
Description of assembly: BRICK / AIR SPACE / SPRAYED INSULATION / 5/8" GYPBOARD
U-Value of total assembly: 0.052
R-Value of insulation: 19
Openings (windows or doors with glazing): Openings (windows)
U-Value of total assembly: 0.45
solar heat gain coefficient
projection factor
Door R-Values: N/A

Exterior Walls (each assembly)
Description of assembly: METAL PANEL / AIR SPACE / SPRAYED INSULATION / 5/8" GYPBOARD
U-Value of total assembly: 0.0476
R-Value of insulation: 19
Openings (windows or doors with glazing): Openings (windows)
U-Value of total assembly: 0.45
shading Coefficient
projection factor
Door R-Values: N/A

Walls below grade - NOT USED
Description of assembly -
U-Value of total assembly
R-Value of insulation

Floor over unconditioned space (each assembly) - NOT USED
Description of assembly -
U-Value of total assembly -
R-Value of insulation -

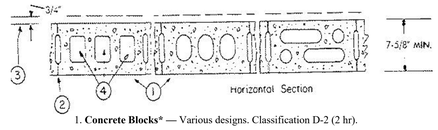
Floor slab on grade
Description of assembly - 4" thick concrete slab
U-Value of total assembly - 0.21
R-Value of insulation - N/A
Horizontal/vertical requirement
slab heated - NO

U.L. Design No. U905

Design No. U905
March 17, 2004

Bearing Wall Rating — 2 HR.

Nonbearing Wall Rating — 2 HR



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

No.	Date	Revision

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ARCHITECTURE / PLANNING / TECHNOLOGY
2600 Meridian Drive / Greenville, NC 27834 / tel (252) 757-0333

HITE ASSOCIATES, P.C. CORPORATE SEAL NORTH CAROLINA CORPORATION NUMBER C-0418 GREENVILLE 12/31/1978

JAMES GRAY HITE SEAL REGISTERED ARCHITECT 3754 NORTH CAROLINA GREENVILLE

COMMUNITY CENTER AND GYMNASIUM FOR
Alice F. Keene District Park
4561 County Home Road, Greenville, NC 27858

Project No. 22207
Date: December 1, 2022
Drawing no. BCS 101

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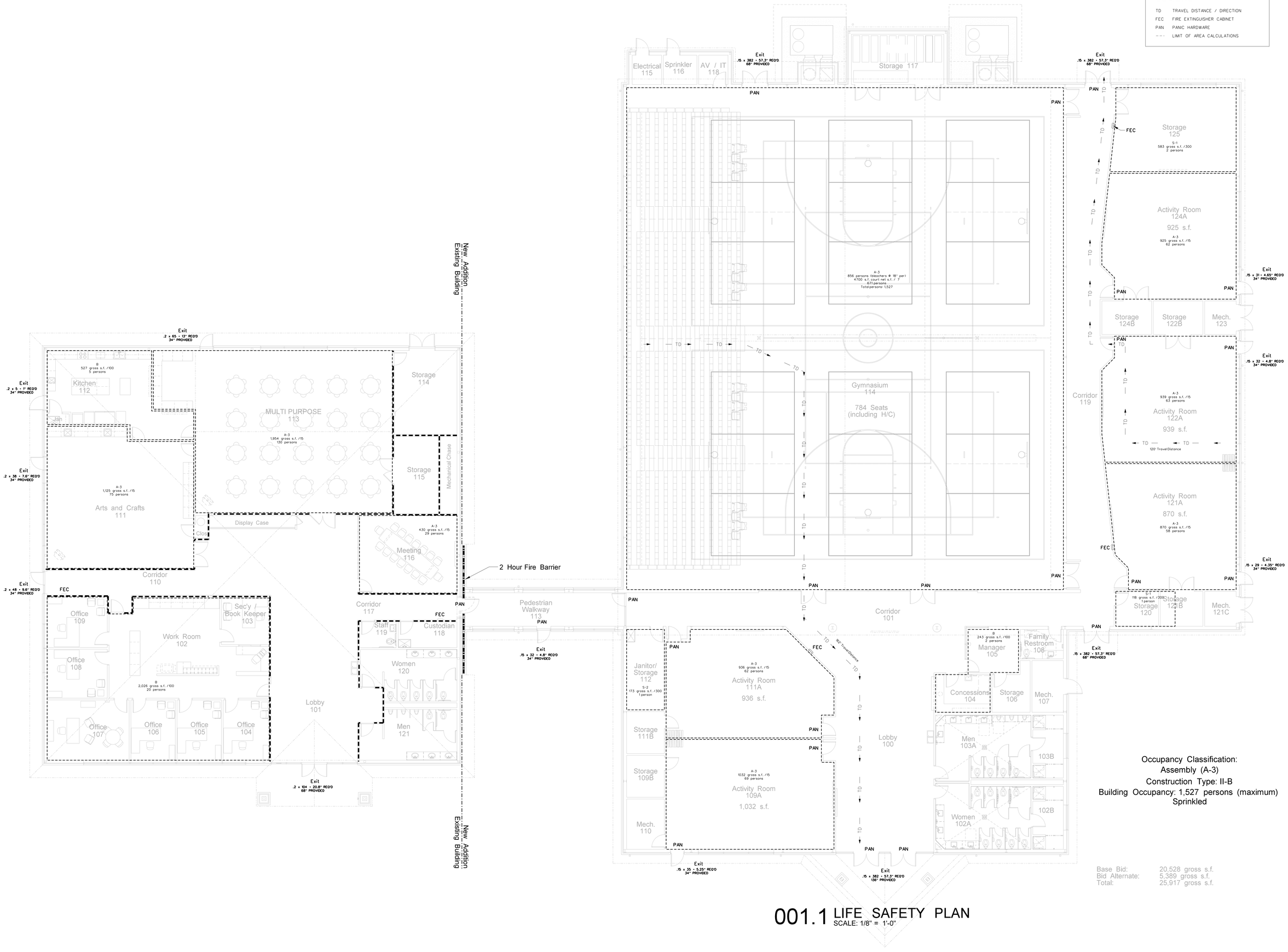
LEGEND

TD	TRAVEL DISTANCE / DIRECTION
FEC	FIRE EXTINGUISHER CABINET
PAN	PANIC HARDWARE
- - -	LIMIT OF AREA CALCULATIONS



Occupancy Classification:
Assembly (A-3)
Construction Type: II-B
Building Occupancy: 1,527 persons (maximum)
Sprinkled

Base Bid:	20,528 gross s.f.
Bid Alternate:	5,389 gross s.f.
Total:	25,917 gross s.f.

001.1 LIFE SAFETY PLAN
SCALE: 1/8" = 1'-0"

No.	Date	Revision

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2600 Meridian Drive / Greenville, NC 27834 / tel (252) 757-0333

HITE ASSOCIATES, P.C. — CERTIFICATE OF INCORPORATION NUMBER C-0418 — REGISTERED — GREENVILLE, N.C.

JAMES GRAY HITE — REGISTERED ARCHITECT 3754 — GREENVILLE, N.C.

COMMUNITY CENTER AND GYMNASIUM FOR
Alice F. Keene District Park
4561 County Home Road, Greenville, NC 27858

Project No.: 22207
Date: December 1, 2022
Drawing no.: LS 001

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GENERAL SITE NOTES AND REQUIREMENTS

1. PROPOSED USES SHALL COMPLY WITH THE CITY OF GREENVILLE ZONING REGULATIONS FOR RA20 ZONING DISTRICT.
2. PAVED AREAS SHALL BE COMPACTED TO 95% MAXIMUM DRY DENSITY EXCEPT FOR THE TOP 6" OF SUBGRADE WHICH SHALL BE COMPACTED TO 100% MAXIMUM DRY DENSITY IN ACCORDANCE WITH AASHTO-T99.
3. AGGREGATE BASE COURSE SHALL BE TYPE ABC CONFORMING TO SECTION 520 OF THE NCDOT STANDARD SPECIFICATIONS DATED 1990.
4. BITUMINOUS CONCRETE SURFACE COURSE SHALL BE TYPE S9.5A CONFORMING TO SECTION 645 OF THE NCDOT STANDARD SPECIFICATIONS.
5. ALL MATERIALS AND INSTALLATION METHODS OF WATER AND SANITARY SEWER UTILITIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE GREENVILLE UTILITIES COMMISSION MANUAL FOR THE DESIGN AND CONSTRUCTION OF WATER AND WASTE WATER SYSTEM EXTENSIONS.CONTRACTOR SHALL VERIFY ALL EXISTING INVERTS AT NEW STORM DRAIN AND SANITARY SEWER TIE-IN POINTS PRIOR TO ANY INSTALLATION OF UTILITIES.
6. PROVIDE EXTERIOR CONCRETE WALKS AND CONCRETED AREAS WITH EXPANSION AND SCORED JOINTS IN PRE-APPROVED LOCATIONS.EXPANSION JOINTS SHALL BE 1/2 " WIDE WITH EDGES TOOLED TO 1/8 " RAD AND FILLED WITH HOT RUBBER ASPHALT SEALANT.PROVIDE AT ALL CORNERS,INTERSECTIONS,CHANGES IN SLOPE OR DIRECTION AGAINST EXISTING OR NEW WALLS OR PAVEMENTS,AND AT INTERVALS NOT TO EXCEED 30'. SCORED JOINTS SHALL BE SCORED 1" DEEP MINIMUM AND RADIUSED 1/8 ", AND SHALL BE PLACED AT INTERVALS NOT TO EXCEED 5 FEET.
7. EACH PRIME CONTRACTOR PERFORMING EXCAVATIONS OR UNDERGROUND WORK SHALL BE RESPONSIBLE FOR THE LOCATION OF ANY EXISTING UTILITIES IN THE AREA OF THEIR WORK.NOTIFY THE UTILITY LOCATOR SERVICE BY DIALING 811 AT LEAST 72 HOURS PRIOR TO COMMENCING CONSTRUCTION IN ORDER THAT EXISTING UTILITIES IN THE AREA MAY BE FLAGGED AND STAKED. CONTRACTOR SHALL USE ALL CARE NECESSARY WHEN WORKING IN AREAS KNOWN OR SUSPECTED TO CONTAIN UNDERGROUND UTILITIES, INCLUDING HAND DIGGING.
8. GARBAGE PICKUP WILL BE DETERMINED BY THE OWNER (PRIVATE)
9. ALL REQUIRED IMPROVEMENTS SHALL CONFORM TO THE CITY OF GREENVILLE MANUAL OF STANDARD DESIGNS AND DETAILS.
10. AN APPROVED STORM WATER DETENTION PLAN IS REQUIRED AND AN AS-BUILT IS REQUIRED ONCE THE BMP IS COMPLETED.
11. CITY OF GREENVILLE DRIVEWAY PERMIT IS NOT REQUIRED.
12. AN APPROVED EROSION AND SEDIMENTATION CONTROL PLAN IS REQUIRED.
13. NCDOT DRIVEWAY PERMIT IS REQUIRED.
14. CITY OF GREENVILLE VEGETATION PLAN IS REQUIRED.
15. SEWER TAP FEES AND WATER TAP FEES ARE DUE PRIOR TO RECEIVING SEWER AND WATER SERVICES.
16. CONTRACTOR SHALL NOTIFY THE PUBLIC WORKS STREET MAINTENANCE DIVISION AT LEAST 48 HOURS PRIOR TO MAKING CONNECTION TO EXISTING STORM DRAINS WITHIN PUBLIC STORM DRAINAGE EASEMENTS OR R/W'S.
17. GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING INVERT ELEVATIONS PRIOR TO CONSTRUCTION.
18. ALL DUMPSTER PADS SHALL BE SCREENED ON THREE SIDES IN ACCORDANCE WITH SECTION 9-4-268(h).
19. G.U.C POINT OF SERVICE FOR WATER SHALL BE AT THE WATER METER.
20. NEW & EXISTING FIRE HYDRANTS SHOWN ON THIS PLAN HAVE OR SHALL BE INSTALLED THAT NO PORTION OF BUILDING(S) IS LOCATED FURTHER THAN 400'FROM HYDRANT AS THE HOSE IS LAID.
21. SIGNAGE SHALL BE IN ACCORDANCE WITH ARTICLE "N" OF THE GREENVILLE CITY CODE. SIGN PERMIT REQUIRED.
22. AN UNUSED DRIVEWAY MUST BE CLOSED IN ACCORDANCE WITH THE CITY OF GREENVILLE DRIVEWAY ORDINANCE.
23. G.U.C. POINT OF SERVICE FOR THE SEWER SHALL BE C.O. LOCATED AT THE RIGHT-OF-WAY OR AT THE EDGE OF THE SANITARY SEWER EASEMENT.
24. NEW BUILDING MUST COMPLY WITH ALL APPLICABLE BUILDING CODES.
25. GUC GAS/UTILITY EASEMENT IS 10'-0" IN WIDTH AND CENTERED OVER GAS LINES AS INSTALLED.
26. SITE SHALL MEET ALL ACCESSIBILITY REQUIREMENTS OF THE NC BUILDING CODE VOL I-C, DEPT. OF INSURANCE APPROVAL OF CONSTRUCTION PLANS.
27. PROPOSED BUILDING USE DOES NOT HAVE FOOD HANDLING FACILITIES, NO GREASE INTERCEPTOR IS REQUIRED.
28. OUTFALL ACREAGE FEES ARE DUE AND PAYABLE BY THE OWNER IF REQUIRED.
29. PERMITTING OF PRIVATE WATER MAINS 2" AND LARGER IS REQUIRED BY NCDENR. THE PERMIT SHALL BE IN THE NAME OF THE OWNER.WATER WILL NOT BE PROVIDED TO THE PROJECT UNTIL GUC HAS BEEN PROVIDED VERIFICATION OF FINAL APPROVAL FROM NCDENR.
30. ALL EXISTING WATER AND SEWER SERVICES NOT USED FOR THIS PROJECT SHALL BE ABANDONED AT THE CONTRACTORS EXPENSE IN ACCORDANCE WITH GUC REQUIREMENTS
31. THIS PROPERTY IS NOT LOCATED IN A 100 YEAR FLOOD HAZARD AREA ZONE X. PANEL NUMBER 3720468700K, DATED: 7/7/2014.
32. NO WETLANDS EXIST ON THIS PROPERTY
33. LANE CLOSURES ON THOROUGHFARE ROADS ARE ONLY PERMITTED BETWEEN THE HOURS OF 9:00AM AND 4:00PM, MONDAY THROUGH FRIDAY, UNLESS OTHERWISE PERMITTED BY THE TRAFFIC ENGINEER.IN ADDITION, THERE WILL BE NO LANE CLOSURES ON HOLIDAYS INCLUDING THE DAY BEFORE OR AFTER SAID HOLIDAY.A TRAFFIC CONTROL PLAN PREPARED IN ACCORDANCE WITH THE NCDOT MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES IS REQUIRED FOR ALL LANE CLOSURES AND MUST BE APPROVED BY THE TRAFFIC ENGINEER.
34. +/- 80% STABILIZATION REQUIRED PRIOR TO TEMPORARY EROSION CONTROL MEASEURES BEING REMOVED.
35. NEW BUILDINGS MUST COMPLY WITH NC FIRE CODE SECTION 510 - EMERGENCY RESPONDER RADIO COVERAGE.
36. ALL SITE LIGHTING SHALL COMPLY WITH THE LIGHTING STANDARDS FOR THE CITY OF GREENVILLE.
37. WATER VALVES FOR PRIVATE FIRE LINE NOT IN ROADWAY NEED TO BE P.I.V.

GENERAL SITE VEGETATION DATA

Unless otherwise provided, all plant materials shall meet the following minimum size standards at the time of planting and/or qualification in the case of existing materials:

Planting Material Type	Minimum Planting Size
Large Tree	
single stem	10 feet (height) and 2" caliper
multi-stem clump	10 feet (height)
Small Tree	8 feet (height) and 1"" caliper
Shrub	18 inches (height), except as provided under section 9-4-267(a)

Existing substitute vegetation materials have been noted including their specific location(s), type(s) and size(s).

Existing vegetation to remain to be protected from site development activity in accordance with section 9-4-265(f)

No portion of any parking area, including any driveway, parking space, drive isle or turning area, shall be located more than thirty (30) feet from an on-site small tree or more than seventy-five (75) feet from an on-site large tree. For purposes of this section, the measurement shall be from the farthest edge of the subject area to the center of the base of the closest qualifying tree.

Site Plan approval from the respective easement holder shall be construed as approval of all noted and/or illustrated encroachments as shown on this plan.

All open space areas that are not landscaped shall be seeded with lawn or other ground cover.

The following vegetation materials, as listed by common name and shall constitute not more than 25% of the total requirement for the specific category:

Large category tree- River Birch

Small tree category- Aristocrat pear, Bradford Pear, Capital Pear, Cleveland select Pear

Parking area screening vegetation shall be in accordance with section 9-4-268(l)(9) of the City Code.

Dumpster Pad screening shall be enclosed on three (3) sides in accordance with Section 9-4-268(h)

SITE VEGETATION REQUIREMENTS (per acre):

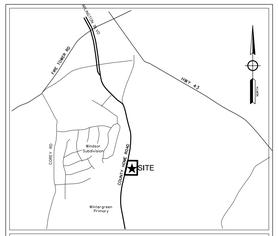
1. 5 Large Trees; and
2. 10 Small Trees; and
3. 25 Shrubs

MINIMUM 3' CLEARANCE MUST BE MAINTAINED AROUND ALL FIRE HYDRANTS IN ACCORDANCE WITH STATE FIRE CODE

NOTICE TO ALL LANDOWNERS/DEVELOPERS

Wetlands are valuable natural resources that provide important ecological functions. Be advised that activities in wetlands are regulated by the federal Government under Section 404 of the Clean Water Act. Jurisdictional wetland may include the pine-shrub pocosins that are common in the region. If any private landowner, developer, corporation, or other person proposes to undertake construction/filling activities in or near a lake, stream, creek, tributary or any other unnamed body of water including its adjacent wetlands, federal permit authorization may be required from the U.S. Army Corps of Engineers prior to commencement of any such land-disturbing activities. Please contact Mr. Henry Wicker, Field coordinator, Washington, NC Corps of Engineers regulatory field Office, telephone (252) 975-5811, for a wetland determination and information regarding specific permit requirements.

NOTE:
PERMITTING OF PRIVATE WATE MAINS 2" AND LARGER IS REQUIRED BY NCDENR.THE PERMIT SHALL BE INT HE NAME OF THE OWNER. WATER WILL NOT BE PROVIDED TO THE PROJECT UNTIL GUC HAS BEEN PROVIDED VERIFICATION OF A FINAL APPROVAL BY NCDENR.



Vicinity Map n.t.s.

Property Information

Property Owner:	County of Pitt
Name of Project:	Gymnasium Addition - Alice F. Keene District Park
Address:	4561 County Home Road, Greenville, NC 27858
Proposed Use:	Recreational
Building Height	20'-0"
Property Zoning	RA-20
Land Use Classification	LC-2
Deed Book Reference:	DEED BK. DD_EE, PG. 284
Parcel No.	30604
Map Book:	MB 25, P.153/A

Site Data

Parcel Acreage:	98.61 Acres
Disturbed Area / Limits of Construction:	7.0 Acres (304,920 s.f.)

PARKING: (per table 9-4-252 - Schedule of Required Parking Spaces)
(38) - Athletic, Sports recreation, or similar
1 space per 300 square feet of non-storage area plus 1 space per employee plus 1 space for associated uses, lounges, restaurants, etc.

Employees (10)	10 Required Spaces
Non-Storage Area	33,854 s.f. / 300 = 112 Required Spaces
Required Parking:	112 Required Spaces

1 EXISTING PARKING:

Existing Parking (including accessible spaces)	41
Existing Accessible Parking	2
NEW PARKING PROVIDED:	
New Parking (including accessible spaces)	92
New Accessible Parking	4
Total Parking Spaces Provided:	133

SITE DATA

Buildings

Existing Buildings	Existing (DEMO) Removed S.F.	Existing to Remain S.F.	New Additions S.F.	Total Buildings	(%) of Increase / Decrease
11,000	0	11,000	25,000	36,000	69%

Drives and Walks (Impervious)

Existing Impv	Existing (DEMO) Removed S.F.	Existing to Remain S.F.	New Drives & Walks S.F.	Total	(%) of Increase / Decrease
144,348	(4,095)	140,253	55,768	196,021	28%

Total Buildings and Drives

Existing	Existing (DEMO) Removed S.F.	Existing to Remain S.F.	New Drives & Walks S.F.	Total	(%) of Increase / Decrease
155,348	(4,095)	151,253	80,768	232,021	35%

Total Impervious Coverage

Existing	Site Area	Existing Coverage	New Total S.F.	Coverage	(%) of Increase / Decrease
155,348	4,295,452	4%	232,021	5%	2%

CONSULTANT:
CIVIL ENGINEERING
J. STEPHEN JANOWSKI, P.E.
Rivers & Associates, Inc.
License No. F-0334
107 East 2nd Street, Greenville, NC
(252)-714-3002

No.	Date	Revision
1	4-27-23	REVISED PER CITY OF GREENVILLE COMMENTS

Hite associates
ARCHITECTURE / PLANNING / TECHNOLOGY
2600 Meridian Drive / Greenville, NC 27834 / tel (252) 757-0333

COMMUNITY CENTER AND GYMNASIUM FOR
Alice F. Keene District Park
4561 County Home Road, Greenville, NC 27858

City of Greenville Site Plan Approval	
Date: _____	
☐ Approved	☐ Approved as Noted
Zoning	Traffic Services
Vegetation	NCDOT
Inspections	GUC water/sewer
Fire Rescue	GUC Electric
Surveyor/Floodplain	GUC Gas
Engineering	Notes

Project No. 22207
Date: December 1, 2022
Drawing no. C 001

NORTH

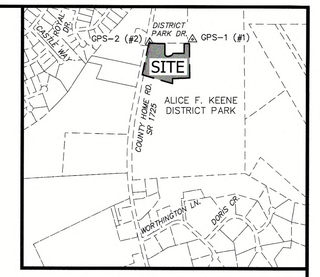
101.1 OVERALL SITE PLAN
SCALE: 1" = 100'-0"

100 0 100 200 300 FEET
GRAPHIC SCALE

LEGEND

- CONTOURS
- DEPRESSED CONTOUR
- RIGHT OF WAY (R/W)
- BOUNDARY
- TOP OF BANK (DITCH/SWALE)
- TOE OF DITCH/SWALE
- CENTERLINE OF DITCH/SWALE
- EASEMENT
- EDGE OF LANDSCAPING
- GAS LINE (GL) (GUC SCHEMATICS)
- UGE — UNDERGROUND ELECTRIC/DUCT (GUC SCHEMATICS)
- SANITARY SEWER LINE (SS) (GUC INFO)
- FM — SANITARY SEWER FORCE MAIN LINE (F.M.) (GUC SCHEMATICS)
- W — WATER LINE (WL) (GUC SCHEMATICS)
- C — UNDERGROUND COMMUNICATION LINE (GUC SCHEMATICS & NC811)
- FO — UNDERGROUND FIBER OPTIC LINE (GUC SCHEMATICS & NC811)
- EDGE OF CRUSHED ROCK
- X — FENCE LINE
- STORM DRAINAGE PIPE
- HEDGEROW/ VEGETATION
- EROSION
- OHU — OVERHEAD UTILITY LINE
- BUILDING
- NATURAL GROUND
- TOP OF ASPHALT
- BACK OF CURB
- TOP OF CONCRETE
- EDGE OF PAVEMENT
- TOP OF DITCHBANK/SWALE/SLOPE
- TOE OF DITCHBANK/SWALE/SLOPE
- CENTERLINE OF DITCH
- CENTERLINE OF SWALE
- TOP OF CRUSHED ROCK
- TOP OF WALL
- GPS # (#) — HORIZONTAL CONTROL
- TBM — TEMPORARY BENCHMARK (TBM)
- CO — CLEANOUT
- TP — TELEPHONE PEDESTAL
- FOV — FIBER OPTIC VAULT
- FOM — FIBER OPTIC MARKER
- ESD — EMERGENCY SHUT OFF
- EO — ELECTRIC OUTLET
- SW — ELECTRICAL SWITCH BOX
- LIGHT POLE W/ 30" CONC. BASE
- WSPE — WATER SERVICE PROTECTIVE ENCLOSURE
- WV — WATER VALVE
- FH — FIRE HYDRANT (FHYD)
- HB — HOSE BIBB
- RD — ROOF DRAIN
- GP — GATE POST
- MP — METAL POST
- SIGN
- GV — GAS VALVE
- GM — GAS METER
- 4" PVC — 4" PVC PIPE STUB UP
- DWS — DOG WASTE STATION
- UTILITY POLE
- UTILITY POLE W/ LIGHT
- GUY WIRE/POLE ANCHOR
- TREE STUMP
- (S) — SANITARY SEWER MANHOLE (MHSS)
- EL. — ELEVATION
- EMN — EXISTING MAG NAIL
- C.B. — COMPOSITE BENCH
- N/F — NOW OR FORMERLY
- P.N. — PARCEL NUMBER
- D.B. — DEED BOOK
- M.B. — MAP BOOK
- PG. — PAGE
- CONC. — CONCRETE
- TYP. — TYPICAL
- INV — INVERT
- PVC — POLYVINYL CHLORIDE (WL)
- CM — CREPE MYRTLE
- RB — RIVER BIRCH
- GUM — SWEET GUM TREE
- MAG — MAGNOLIA TREE
- ORN — ORNAMENTAL TREE
- CBBC — CATCH BASIN BACK OF CURB
- DI — DRAINAGE INLET
- CMP — CORRUGATED METAL PIPE
- TC — TERRACOTTA PIPE
- CP — CONCRETE PIPE
- UNK — UNKNOWN
- HDPE — HIGH DENSITY POLYETHYLENE PIPE
- L/A — LANDSCAPED AREA
- HVAC — HEAT/VENTILATION/AIR CONDITION
- CLF — CHAIN LINK FENCE
- W/ — WITH...
- FFE — FINISH FLOOR ELEVATION
- (E) — EAST
- (W) — WEST
- (N) — NORTH
- (S) — SOUTH
- BOT. — BOTTOM
- SHRUB
- EXISTING TREES
- ASPHALT
- CONCRETE
- CRUSHED ROCK
- RIPRAP
- 30' INGRESS, EGRESS AND UTILITIES EASEMENT
- 15' UTILITY EASEMENT & 20' ELECTRIC EASEMENT

NORTH (NCGRID-NAD83/2011)



Vicinity Map SCALE: 1" = 1000'

NOTES:

1. PROPERTIES SUBJECT TO ANY AND ALL EASEMENTS, RIGHTS OF WAY, RESTRICTIVE COVENANTS WHICH MAY BE OF RECORD.
2. ALL DISTANCES ARE HORIZONTAL GROUND MEASURED UNLESS SHOWN OTHERWISE.
3. THE PROPERTY IS LOCATED IN A ZONE X (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD (500 YEAR)), AS SHOWN ON FLOOD INSURANCE RATE MAP NUMBER 3720469500J PANEL 4695, DATED 1/4/2004.
4. AREA DETERMINED BY COORDINATES.
5. CURRENT ZONING PN 30604: RA-20.
6. UTILITIES: SHOWN HEREON WERE PLOTTED IN PART FROM ABOVE-GROUND OBSERVATIONS, FROM INFORMATION PROVIDED BY GREENVILLE UTILITIES COMMISSION OR AS NOTED. THE SURVEYOR CANNOT CERTIFY TO THE ACCURACY OF INFORMATION TAKEN FROM RECORD DRAWINGS OR PAINT MARKINGS; ACTUAL LOCATIONS MAY VARY OTHER UTILITIES MAY EXIST. CALL NORTH CAROLINA ONE-CALL CENTER, INC. (NC ONE-CALL) AT 1-800-632-4949 TO HAVE UNDERGROUND UTILITIES LOCATED PRIOR TO EXCAVATING OR TRENCHING. NC 811 TICKETS: A221790504, A221790533, A221790621. (MINIMAL MARKING BY NCB11)
7. UTILITIES: THE SURVEYOR MAKES NO GUARANTEE THAT THE UTILITIES SHOWN ARE COMPRISED OF ALL SUCH UTILITIES AND IN THE AREA OF SURVEY EITHER IN SERVICE OR ABANDONED. THE SURVEY FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. THE SURVEYOR DOES HEREBY CERTIFY THAT ALL UTILITIES ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY UNCOVERED AND LOCATED ANY UNDERGROUND UTILITIES.
8. ELEVATIONS AND CONTOURS SHOWN ARE BASED ON NAVD 88 DATUM. VERTICAL CONTROL ESTABLISHED BY MULTIPLE NCGS RTN GPS OBSERVATIONS (CLASS C).
9. SITE HAS NOT BEEN EVALUATED BY A SOIL SCIENTIST FOR ENVIRONMENTAL CONCERNS.
10. PIPE INVERTS SHOWN HEREON WERE OBTAINED WITHOUT CONFINED SPACE ENTRY BY THE MOST PRACTICAL METHODS AVAILABLE TO THE SURVEYOR

I, PATRICK HARTMAN, P.L.S., CERTIFY THAT THE EXISTING PLANIMETRIC INFORMATION SHOWN HEREON WAS DRAWN UNDER MY DIRECTION FROM AN ACTUAL SURVEY MADE BY RB/JP ON 6/27/2022 – 7/25/22 OF THE AREA SHOWN. BOUNDARIES NOT SURVEYED ARE SHOWN AS BROKEN LINES FROM INFORMATION FOUND IN REFERENCED BOOK(S) AND PAGE(S). THAT THE RATIO OF PRECISION AS CALCULATED IS 1:10,000+, AND IN ACCORDANCE WITH THE US NATIONAL MAPPING ACCURACY STANDARDS, THE MAXIMUM VERTICAL ERROR IS NOT GREATER THAN ONE-HALF THE CONTOUR INTERVAL EXCEPT AS NOTED; THAT VERTICAL CONTROL WAS ESTABLISHED TO THE CLASS 'C' STANDARD VIA MULTIPLE NCGS RTN OBSERVATIONS ON CONTROL POINTS.

1) CLASS OF SURVEY:	CLASS A (HORIZ) CLASS C (VERT)
2) POSITIONAL ACCURACY:	2 CM(HORZ)
3) TYPE OF GPS FIELD PROCEDURE:	NCGS VRS RTN
4) DATE OF SURVEY WORK:	6/27/22-7/25/22
5) DATUM/EPOCH:	NAD83/2011
6) PUBLISHED CONTROL/FIXED CONTROL:	NCGS VRS RTN
7) GEOID MODEL:	GEOID12A
8) COMBINED GRID FACTOR:	0.99988848765421
9) UNITS:	US SURVEY FEET

AND THAT THIS SURVEY MEETS THE REQUIREMENTS OF THE STANDARDS OF PRACTICE FOR LAND SURVEYING IN NORTH CAROLINA (21 NCAC 56.1600); WITNESS MY ORIGINAL SIGNATURE, LICENSE NUMBER AND SEAL THIS 25TH DAY OF JULY, A.D. 2022.

PROFESSIONAL LAND SURVEYOR — LICENSE NO. L-4262

30' 0 15' 30'

SCALE 1 inch = 30 ft

HORIZONTAL SURVEY CONTROL

POINT	NORTHING (US FT-GROUND)	EASTING (US FT-GROUND)	ELEVATION (NAVD88)	DESCRIPTION	GRID NORTHING (US FT-NAD 83/2011)	GRID EASTING (US FT-NAD 83/2011)
1	659061.57	2491288.16	67.24	SET MAG NAIL – GPS 1	659061.57	2491288.16
2	659006.16	2490593.13	67.67	10" SPIKE – GPS 2	659006.16	2490593.22
13	659003.32	2491210.56	67.63	EMN	659003.33	2491210.57
15	659001.01	2490578.15	67.81	EMN	659001.01	2490578.23

PROJECT CONTROL LOCALIZED TO GROUND AROUND RIVERS CONTROL POINT 1(GPS 1); CALCULATED COMBINED FACTOR = 0.99988848765421.

VERTICAL SURVEY CONTROL

POINT	NORTHING (US FT-GROUND)	EASTING (US FT-GROUND)	ELEVATION (NAVD88)	DESCRIPTION
2297	659033.2	2491271.9	69.70	TBM TOP FHYD
5720	658498.4	2490501.5	76.41	TBM TOP FHYD
5164	659010.5	2490607.6	69.02	TBM NAIL IN PP

OWNER:

COUNTY OF PITT
1717 WEST FIFTH STREET
GREENVILLE, NC 27834

REFERENCES:

P.N. 30604
D.B. DD_EE PG. 284
"THE ARCHAEOLOGY OF THE SOCIAL SAFETY NET AT THE PITT COUNTY HOME", BY MURIEL GRUBB, DATED JULY 2020.
M.B. 25 PG. 153/153A
RIVERS DRAWING W-464 (DATED MAY 20, 1970)
D.B. 705 PG. 703 (DOES NOT DESCRIBE THIS PROPERTY)
D.B. 722 PG. 577 (DOES NOT DESCRIBE THIS PROPERTY)
D.B. 1520 PG. 017
M.B. 62 PG. 48 (ANNEXATION)
M.B. 66 PG. 159 (ANNEXATION)
D.B. 2780 PG. 477 (SR 1725 RIGHT OF WAY)
D.B. 1931 PG. 317 (GUC WATER AND ELECTRIC EASEMENT)
D.B. 2633 PG. 284 (GUC ELECTRIC EASEMENT)
D.B. 2676 PG. 356 (GUC UTILITY EASEMENT)
D.B. 2328 PG. 772 (INGRESS/EGRESS/UTILITY EASEMENT)

#2-2/2/23 – CORRECTED TBM ELEVATION (#3020) TO TBM ELEVATION 76.41 (#5720)
REVISIONS: #1-8/16/22 – REMOVED RIPARIAN BUFFER PER NCDEQ DOWNSTREAM DETERMINATION LETTER DATED 1/10/2017

NORTH CAROLINA PROFESSIONAL SEAL L-4262 PATRICK W. HARTMAN

DATE 7/25/22

NC License: F-0334
Rivers & ASSOCIATES, INC. Since 1918
riversandassociates.com
Engineers
Planners
Surveyors
Landscape Architects
107 East Second Street
Greenville, NC 27858
(252) 752-4135

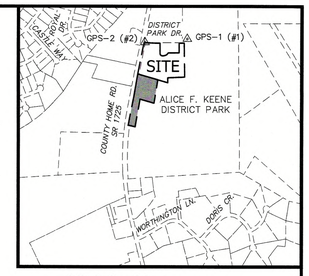
TOPOGRAPHIC SURVEY
FUTURE GYM PROJECT
ALICE F. KEENE DISTRICT PARK
FOR
HITE ASSOCIATES, LP
GREENVILLE, WINTERVILLE TOWNSHIP, PITT COUNTY, NORTH CAROLINA

SURVEY RB/JP	DRAFT PH/MS	SCALE	DRAWING NO.	PROJECT NO.	SHEET
DESIGN	CHECK PWH	1" = 30'	E-378	2022079	1 OF 1

DRAWING NO. E-378

P:\Land\Greenville-Alice_Keene_Pk_Topo-2022\2022079.01\SURVEY_DWGS\E-378_title_Alice_Keene_Topo-dwg-Layout1_HARTMAN.dwg Feb 03 @ 8:55:17 AM

DRAWING NO. E-378



Vicinity Map SCALE: 1" = 1000'

LEGEND

- CONTOURS
- DEPRESSED CONTOUR
- RIGHT OF WAY (R/W)
- TOP OF BANK (DITCH/SWALE)
- TOE OF DITCH/SWALE
- CENTERLINE OF DITCH/SWALE
- EASEMENT
- EDGE OF LANDSCAPING
- UNDERGROUND ELECTRIC/DUCT (GUC SCHEMATICS/MINIMAL MARKING)
- SANITARY SEWER FORCE MAIN LINE (F.M.) (GUC SCHEMATICS NO MARKIN
- WATER LINE (WL) (GUC SCHEMATICS/NC811 MARKING)
- UNDERGROUND FIBER OPTIC LINE (CONTERRA SCHEMATICS NO MARKING)
- UNDERGROUND COMMUNICATIONS LINE (MINIMAL NC811)
- EDGE OF CRUSHED ROCK
- FENCE LINE
- STORM DRAINAGE PIPE
- TREELINE/VEGETATION
- EDGE OF MULCH/SPOIL PILES
- OVERHEAD UTILITY LINE
- BUILDING
- NATURAL GROUND
- TOP OF ASPHALT
- TOP OF CONCRETE
- EDGE OF PAVEMENT
- TOP OF DITCH-BANK/SWALE/SLOPE
- TOE OF DITCHBANK/SWALE/SLOPE
- CENTERLINE OF DITCH
- TOP OF CRUSHED ROCK
- TOP OF WALL
- HORIZONTAL CONTROL
- TEMPORARY BENCHMARK (TBM)
- CABLE TELEVISION PEDESTAL
- TELEPHONE PEDESTAL
- COMMUNICATIONS VAULT
- FIBER OPTIC MARKER
- EMERGENCY SHUT OFF
- ELECTRIC METER
- ELECTRIC BOX
- PVC CONDUIT & SIZE
- LIGHT POLE
- CLEANOUT
- WATER SERVICE PROTECTIVE ENCLOSURE
- WATER VALVE
- FIRE HYDRANT (FHYD)
- HOSE BIBB
- ROOF DRAIN
- GATE POST
- METAL POST
- WOOD POST
- SIGN
- 4" PVC PIPE STUB UP
- UTILITY POLE
- UTILITY POLE W/ LIGHT
- GUY WIRE/POLE ANCHOR
- TREE STUMP
- ELEVATION
- COMPOSITE BENCH
- PARCEL NUMBER
- DEED BOOK
- MAP BOOK
- PAGE
- CONCRETE
- TYPICAL
- INVERT
- POLYVINYL CHLORIDE (WL)
- REDUCED PRESSURE ZONE ASSEMBLY
- ORNAMENTAL TREE
- CORRUGATED METAL PIPE
- HIGH DENSITY POLYETHYLENE PIPE
- LANDSCAPED AREA
- HEAT/VENTILATION/AIR CONDITION
- CHAIN LINK FENCE
- WOVEN WIRE FENCE
- UNDERGROUND UTILITIES
- FINISH FLOOR ELEVATION
- EASEMENT
- SHRUB
- EXISTING TREES
- ASPHALT
- CONCRETE
- CRUSHED ROCK
- RIPRAP
- 15' UTILITY EASEMENT

NOTES:

1. PROPERTIES SUBJECT TO ANY AND ALL EASEMENTS, RIGHTS OF WAY, RESTRICTIVE COVENANTS WHICH MAY BE OF RECORD.
2. ALL DISTANCES ARE HORIZONTAL GROUND MEASURED UNLESS SHOWN OTHERWISE.
3. THE PROPERTY IS LOCATED IN A ZONE X (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD (500 YEAR)), AS SHOWN ON FLOOD INSURANCE RATE MAP NUMBER 3720469500J PANEL 4695, DATED 1/4/2004.
4. AREA DETERMINED BY COORDINATES.
5. CURRENT ZONING PN 30604: RA-20.
6. UTILITIES: SHOWN HEREON WERE PLOTTED IN PART FROM ABOVE-GROUND OBSERVATIONS, FROM INFORMATION PROVIDED BY GREENVILLE UTILITIES COMMISSION OR AS NOTED. THE SURVEYOR CANNOT CERTIFY TO THE ACCURACY OF INFORMATION TAKEN FROM RECORD DRAWINGS OR PAINT MARKINGS; ACTUAL LOCATIONS MAY VARY OTHER UTILITIES MAY EXIST. CALL NORTH CAROLINA ONE-CALL CENTER, INC. (NC ONE-CALL) AT 1-800-632-4949 TO HAVE UNDERGROUND UTILITIES LOCATED PRIOR TO EXCAVATING OR TRENCHING. NC 811 TICKETS: A230182917. (PARTIAL MARKING BY NC811)
7. UTILITIES: THE SURVEYOR MAKES NO GUARANTEE THAT THE UTILITIES SHOWN ARE COMPRISED OF ALL SUCH UTILITIES AND IN THE AREA OF SURVEY EITHER IN SERVICE OR ABANDONED. THE SURVEY FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. THE SURVEYOR DOES HEREBY CERTIFY THAT ALL UTILITIES ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY UNCOVERED AND LOCATED ANY UNDERGROUND UTILITIES.
8. ELEVATIONS AND CONTOURS SHOWN ARE BASED ON NAVD 88 DATUM. VERTICAL CONTROL ESTABLISHED BY MULTIPLE NCGS RTN GPS OBSERVATIONS (CLASS C).
9. SITE HAS NOT BEEN EVALUATED BY A SOIL SCIENTIST FOR ENVIRONMENTAL CONCERNS.
10. PIPE INVERTS SHOWN HEREON WERE OBTAINED WITHOUT CONFINED SPACE ENTRY BY THE MOST PRACTICAL METHODS AVAILABLE TO THE SURVEYOR

HORIZONTAL SURVEY CONTROL

POINT	NORTHING (US FT-GROUND)	EASTING (US FT-GROUND)	ELEVATION (NAVD88)	DESCRIPTION	GRID NORTHING (US FT-NAD 83/2011)	GRID EASTING (US FT-NAD 83/2011)
1	659061.57	2491288.16	67.24	SET MAG NAIL - GPS 1	659061.57	2491288.16
2	659006.16	2490593.13	67.67	10" SPIKE - GPS 2	659006.16	2490593.22
13	659003.32	2491210.56	67.63	EMN	659003.33	2491210.57
15	659001.01	2490578.15	67.81	EMN	659001.01	2490578.23

PROJECT CONTROL LOCALIZED TO GROUND AROUND RIVERS CONTROL POINT 1(GPS 1); CALCULATED COMBINED FACTOR = 0.99988848765421.

VERTICAL SURVEY CONTROL

POINT	NORTHING (US FT-GROUND)	EASTING (US FT-GROUND)	ELEVATION (NAVD88)	DESCRIPTION
2297	659033.2	2491271.9	69.70	TBM TOP FHYD
5720	658498.4	2490501.5	76.41	TBM TOP FHYD
5164	659010.5	2490607.6	69.02	TBM NAIL IN PP
6029	658047.5	2490419.7	72.69	TBM LAG IN PP

OWNER:

COUNTY OF PITT
1717 WEST FIFTH STREET
GREENVILLE, NC 27834

REFERENCES:

RIVERS DRAWING E-378
P.N. 30604
D.B. DD_EE PG. 284
"THE ARCHAEOLOGY OF THE SOCIAL SAFETY NET AT THE PITT COUNTY HOME", BY MURIEL GRUBB, DATED JULY 2020.
M.B. 25 PG. 153/153A
RIVERS DRAWING W-464 (DATED MAY 20, 1970)
D.B. 705 PG. 703 (DOES NOT DESCRIBE THIS PROPERTY)
D.B. 722 PG. 577 (DOES NOT DESCRIBE THIS PROPERTY)
D.B. 1520 PG. 017
M.B. 62 PG. 48 (ANNEXATION)
M.B. 66 PG. 159 (ANNEXATION)
D.B. 2780 PG. 477 (SR 1725 RIGHT OF WAY)
D.B. 1931 PG. 317 (GUC WATER AND ELECTRIC EASEMENT)
D.B. 2633 PG. 284 (GUC ELECTRIC EASEMENT)
D.B. 2676 PG. 356 (GUC UTILITY EASEMENT)
D.B. 2328 PG. 772 (INGRESS/EGRESS/UTILITY EASEMENT)

I, PATRICK HARTMAN, P.L.S., CERTIFY THAT THE EXISTING PLANIMETRIC INFORMATION SHOWN HEREON WAS DRAWN UNDER MY DIRECTION FROM AN ACTUAL SURVEY MADE BY RB/JP ON 6/27/2022 - 7/25/22 & 1/18-25/2023 OF THE AREA SHOWN. BOUNDARIES NOT SURVEYED ARE SHOWN AS BROKEN LINES FROM INFORMATION FOUND IN REFERENCED BOOK(S) AND PAGE(S). THAT THE RATIO OF PRECISION AS CALCULATED IS 1:10,000+, AND IN ACCORDANCE WITH THE US NATIONAL MAPPING ACCURACY STANDARDS, THE MAXIMUM VERTICAL ERROR IS NOT GREATER THAN ONE-HALF THE CONTOUR INTERVAL EXCEPT AS NOTED; THAT VERTICAL CONTROL WAS ESTABLISHED TO THE CLASS "C" STANDARD VIA MULTIPLE NCGS RTN OBSERVATIONS ON CONTROL POINTS.

1) CLASS OF SURVEY:	CLASS A (HORIZ) CLASS C (VERT)
2) POSITIONAL ACCURACY:	2 CM(HORZ)
3) TYPE OF GPS FIELD PROCEDURE:	NCGS VRS RTN
4) DATE OF SURVEY WORK:	6/27/22-7/25/22;1/18-25/23
5) DATUM/EPOCH:	NAD83/2011
6) PUBLISHED CONTROL/FIXED CONTROL:	NCGS VRS RTN
7) GEOID MODEL:	GEOID12A
8) COMBINED GRID FACTOR:	0.99988848765421
9) UNITS:	US SURVEY FEET

AND THAT THIS SURVEY MEETS THE REQUIREMENTS OF THE STANDARDS OF PRACTICE FOR LAND SURVEYING IN NORTH CAROLINA (21 NCAC 56.1600); WITNESS MY ORIGINAL SIGNATURE, LICENSE NUMBER AND SEAL THIS 2ND DAY OF FEBRUARY, A.D. 2023.

PROFESSIONAL LAND SURVEYOR LICENSE NO. L-4262

30' 0 15' 30'
SCALE 1 inch = 30 ft

REVISIONS:

NORTH CAROLINA PROFESSIONAL LAND SURVEYOR SEAL L-4262 PATRICK W. HARTMAN

DATE 2/2/23

Rivers & ASSOCIATES, INC. NC License: F-0334
riversandassociates.com Since 1918
Engineers Planners Surveyors Landscape Architects
107 East Second Street Greenville, NC 27858 (252) 752-4135

TOPOGRAPHIC SURVEY
FUTURE GYM PROJECT
ALICE F. KEENE DISTRICT PARK
FOR
HITE ASSOCIATES, LP
GREENVILLE, WINTERVILLE TOWNSHIP, PITT COUNTY, NORTH CAROLINA

SURVEY RB/JP	DRAFT PH/MS	SCALE	DRAWING NO.	PROJECT NO.	SHEET
DESIGN	CHECK PWH	1" = 30'	E-378-A	2022079	1 OF 1

DRAWING NO. E-378-A

DRAWING NO. E-378-A

P:\LandDev\Alice Keene Pk, Tops\2022079\DRAWKY, DWGS\E-378 ATitle Alice Keene Additional Detailed Layout1.dwg 2-6-23 @ 9:03:12 AM

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GENERAL DEMOLITION NOTES

1. EXISTING TOPOGRAPHIC SURVEY PROVIDED BY RIVERS & ASSOCIATES INC. 252-752-4135
   COUNTY OF PITT
   D.B. DD, EE PG.284
   JAB.'25 PG. 153A
   P.N. 53624
2. ALL SITE WORK SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND OR REGULATORY AGENCIES, CODES, AND REGULATIONS FOR NEW CONSTRUCTION AND DEMOLITION.
3. REMOVE ANY CONCRETE, ASPHALT, OR OTHER DEBRIS AS SPECIFIED, WHICH IS EXPOSED THROUGH DEMOLITION AND CONSTRUCTION OPERATIONS OF ANY PRIME CONTRACTOR.
4. GENERAL CONTRACTOR SHALL REPLACE AND OR REPAIR ANY DAMAGED OR CRACKED SECTIONS OF CONCRETE CURB, WALK OR ASPHALT PAVING THAT IS TO REMAIN AS REQUIRED. SAWCUT OFF BROKEN OR CRACKED SECTIONS TO PROVIDE A STRAIGHT UNIFORM EDGE. PROVIDE A SMOOTH TRANSITION TO EXISTING FINISHES.
5. GENERAL CONTRACTOR SHALL RETAIN A PRIVATE UTILITY LOCATOR SERVICE TO LOCATE AND IDENTIFY ALL UNDERGROUND UTILITIES.
6. G.C. SHALL REROUTE ALL UNDERGROUND STORM DRAINAGE, SANITARY SEWER SERVICES, WATER SERVICES, IRRIGATION LINES, GAS LINES, ELECTRICAL LINES ETC. (WHETHER OR WHETHER NOT SHOWN) THAT HAVE BEEN IDENTIFIED BY THE PRIVATE LOCATOR SERVICE OR EXPOSED DURING DEMOLITION AND CONSTRUCTION OPERATIONS AS REQUIRED.
7. ANY EXISTING TREES, LANDSCAPED AREAS AND BUFFERYARDS THAT ARE TO REMAIN SHALL BE PROTECTED AS REQUIRED FROM ALL DEMOLITION AND CONSTRUCTION ACTIVITIES PER CITY OF GREENVILLE PLANNING AND DEVELOPMENT REGULATIONS.
8. SEWER MANHOLES, CATCH BASINS, VALVE BOXES, CLEAN OUTS, GRATES & COVERS THAT ARE TO REMAIN IN USE SHALL BE PROTECTED AND ADJUSTED AS REQUIRED TO MEET FINAL GRADES. CONTRACTOR SHALL IDENTIFY AND LOCATE EACH AND ADJUST AS REQUIRED TO NEW FINISH ELEVATIONS. PROVIDE HEAVY DUTY TRAFFIC RATED COVERS IN ALL TRAFFIC ASPHALT AREAS.

North Carolina 811
www.nc811.org

EACH PRIME CONTRACTOR PERFORMING EXCAVATIONS OR UNDERGROUND WORK SHALL BE RESPONSIBLE FOR THE LOCATION OF ANY UNDERGROUND UTILITIES. THE CONTRACTOR SHALL CONTACT THE ONE CALL CENTER AT 1-800-632-4949 AT LEAST 72 HOURS PRIOR TO COMMENCING CONSTRUCTION IN ORDER THAT EXISTING UTILITIES IN THE AREA MAY BE FLAGGED AND STAKED. ALSO CONTACT PITT COUNTY FOR ANY PRIVATE UTILITIES THAT COULD BE IN THE AREA. CONTRACTOR SHALL NOTIFY ONE CALL CENTER WHEN MARKING IN AREAS KNOWN OR SUSPECTED TO CONTAIN UNDERGROUND UTILITIES (INCLUDING HAND DIGGING).

NOTE:
FOR DEMOLITION AND RELOCATION OF ALL OHE, AG/UG POWER DISTRIBUTION TRANSFORMERS, POWER/LIGHT POLES, DATA, TELECOMM, ETC. SEE ELECTRICAL DEMOLITION PLANS

NORTH

LIMITS OF CONSTRUCTION

RELOCATE EXISTING PLAYGROUND EQUIPMENT AND BORDER COMPLETE, AS REQUIRED TO NEW LOCATION, SEE C-101/201. CONFIRM & COORDINATE FINAL LOCATION WITH OWNER. INSTALL NEW PLAY SURFACING MULCH MATERIAL 9" THICK OVER FILTER FABRIC

REMOVE/ RELOCATE/EXISTING W.L. QUICK CONNECT AWAY FROM NEW ASPHALT DRIVE (SEE C-201) AS REQUIRED. COORDINATE SERVICE WITH OWNER

SAWCUT & REMOVE EXISTING ASPHALT WALKING TRAIL. PROVIDE CLEAN UNIFORM EDGE

EXIST. W/M WITH QUICK CONNECT

PLAY-EQUIP.

RELOCATE EXISTING SIGNAGE, COORD. LOCATION WITH STORM PIPE (REF. C-2041

10' ELECT. EASEMENT (D.B. 2633 PG. 284)

WATER VAULT

9" LANDSCAPE TIMBERS (TYP.)

REMOVE EXISTING TIMBERS COMPLETE

TEMPORARY SILT FENCE

6" PVC PIPE FILLED WITH SEDIMENT TOP OF PIPE 67.46

TOP OF PIPE 67.42

GENERAL CONTRACTOR SHALL COORDINATE LIMITED (7.0ACRE) AREA HERE AND CONTRACTOR PARKING WITH THE OWNER. G.C. SHALL INSTALL 5'-0" H TEMPORARY CHAIN LINK CONSTRUCTION FENCING AS REQUIRED COMPLETE WITH LOCKABLE GATES. REPAIR ALL DAMAGED AREAS AS REQUIRED AT END OF PROJECT TO CONDITIONS EQUAL TO ORIGINAL.

CRUSHED ROCK DRIVE

REMOVE EXISTING CONCRETE PIPE

CONCRETE WASH OUT AREA WITH SIGNAGE

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE, SEE DETAIL

9" LANDSCAPE TIMBER (TYP.)

REMOVE AND REPLACE EXISTING CONCRETE CURB/GUTTER AND ASPHALT AS REQUIRED

REMOVE EXISTING CONCRETE PIPE, COORDINATE NEW DRAINAGE PIPING AS REQUIRED WITH C-201

REPLACE EXISTING CATCH BASIN

REMOVE EXISTING ASPHALT WALKING TRAIL COMPLETE

NOTE:
ALL FIELD MARKERS SOCCER DISC'S AND RELATED ATHLETIC DEVICES WITHIN THE LIMITS OF NEW CONSTRUCTION SHALL BE REMOVED AS REQUIRED AND TURNED OVER TO OWNER

Existing Building FFE-69.67'

RELOCATE EXISTING BIKE RACK, COORDINATE LOCATION WITH OWNER

CONC. PAD W/ BIKE RACK

RELOCATE EXISTING SIGN KIOSK, COORDINATE LOCATION WITH OWNER

SIGN KIOSK

REMOVE EXISTING CONCRETE WALK COMPLETE, COORDINATE NEW WALKS WITH C-201

SAWCUT AND REMOVE EXISTING CONCRETE CURB & GUTTER AS REQUIRED, COORDINATE WITH C-201

REMOVE EXISTING SMALL TREE - COMPLETE

REMOVE EXISTING DROP INLET, AND REPLACE WITH NEW JUNCTION BOX, SEE 201

TOTAL DISTURBED AREA = 7.0 ACRES

SAWCUT & REMOVE EXISTING ASPHALT WALKING TRAIL. PROVIDE CLEAN UNIFORM EDGE

SEE SHEET C-200 EROSION CONTROL PLAN FOR STORM WATER REROUTING

SAWCUT & REMOVE EXISTING ASPHALT WALKING TRAIL. PROVIDE CLEAN UNIFORM EDGE

SAWCUT & REMOVE EXISTING ASPHALT WALKING TRAIL. PROVIDE CLEAN UNIFORM EDGE

EXISTING WOOD TRELLIS TO REMAIN

EXISTING SIGN TOP REMAIN

REMOVE EXISTING LANDSCAPE TIMBERS AS REQUIRED

RELOCATE EXISTING POWER POLE AS REQUIRED

REMOVE EXISTING CHAIN LINK FENCE COMPLETE

RELOCATE EXISTING POWER POLE AS REQUIRED

REMOVE EXISTING SEPTIC TANK VERIFY PRIOR TO REMOVING WITH PITT COUNTY

SEPTIC TANK (TOP=71.43 +/-)

REMOVE EXISTING MASONRY RETAINING WALL

8" BLOCK RETAINING WALL

REMOVE EXISTING CHAIN LINK FENCE COMPLETE

REMOVE EXISTING CHAIN LINK FENCE COMPLETE COORDINATE TIE-IN POINT WITH NEW FENCE, REF. C-102

REMOVE EXISTING CHAIN LINK FENCE COMPLETE, COORDINATE TIE-IN POINT WITH NEW FENCE, REF. C-102

REMOVE EXISTING GRAVEL DRIVE, EXISTING CULVERT PIPE COMPLETE, REGRADE EXISTING ROADSIDE DITCH TO DRAIN AS REQUIRED

REMOVE EXISTING GRAVEL DRIVE, FINAL GRADE AND SEED AS SPECIFIED.

SOIL FOOT PATH

Existing Building FFE-71.90'

COUNTY HOME ROAD (60' R/W - SR 1726)

LIMITS OF CONSTRUCTION

100.1 SITE DEMOLITION PLAN

SCALE: 1" = 30'-0"

30 0 30 60 90 FEET

GRAPHIC SCALE

No.	Date	Revision
1	7-20-23	REVISED PER NCDOT COMMENTS

Hite associates
ARCHITECTURE / PLANNING / TECHNOLOGY
2600 Meridian Drive / Greenville, NC 27834 / tel (252) 757-0333

HITE ASSOCIATES, P.C. — CORPORATE LICENSE NUMBER C-418 — GREENVILLE, NORTH CAROLINA

CIVIL ENGINEERING CONSULTANT:
J. STEPHEN JANOWSKI, P.E.
Rivers & Associates, Inc.
License No. F-0334
107 East 2nd Street, Greenville, NC
(252)-714-3002

COMMUNITY CENTER AND GYMNASIUM FOR
Alice F. Keene District Park
4561 County Home Road, Greenville, NC 27858

Project No. 22207
Date December 1, 2022
Drawing no. C 100

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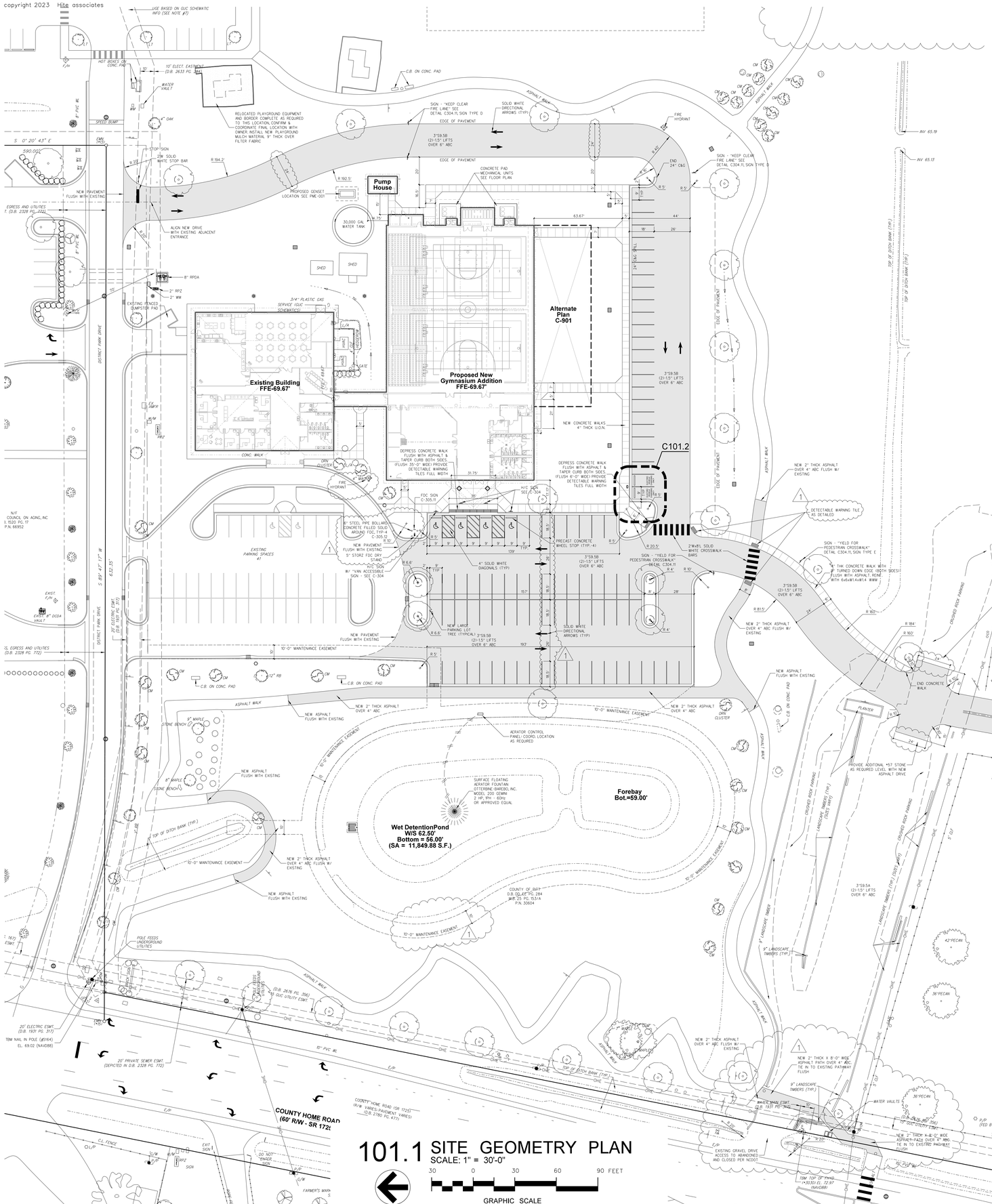
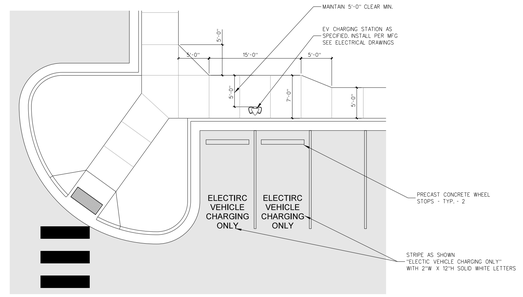


101.1 SITE GEOMETRY PLAN
SCALE: 1" = 30'-0"

30 0 30 60 90 FEET
GRAPHIC SCALE



101.2 EV CHARGING STATION
SCALE: 1" = 10'-0"

No.	Date	Revision
1	4.27.23	REVISED PER CITY OF GREENVILLE COMMENTS

Hite associates
ARCHITECTURE / PLANNING / TECHNOLOGY
2600 Meridian Drive / Greenville, NC 27834 / tel (252) 757-0333

HITE ASSOCIATES, P.C. ARCHITECTURAL CORPORATION NORTH CAROLINA LICENSE NUMBER 4:18 GREENVILLE

CIVIL ENGINEERING CONSULTANT:
J. STEPHEN JANOWSKI, P.E.
Rivers & Associates, Inc.
License No. F-0334
107 East 2nd Street, Greenville, NC
(252)-714-3002

PROFESSIONAL ENGINEER J. STEPHEN JANOWSKI SEAL 12,436 NORTH CAROLINA

COMMUNITY CENTER AND GYMNASIUM FOR

Alice F. Keene District Park

4561 County Home Road, Greenville, NC 27858

Project No.	22207
Date:	December 1, 2022
Drawing no.	C 101

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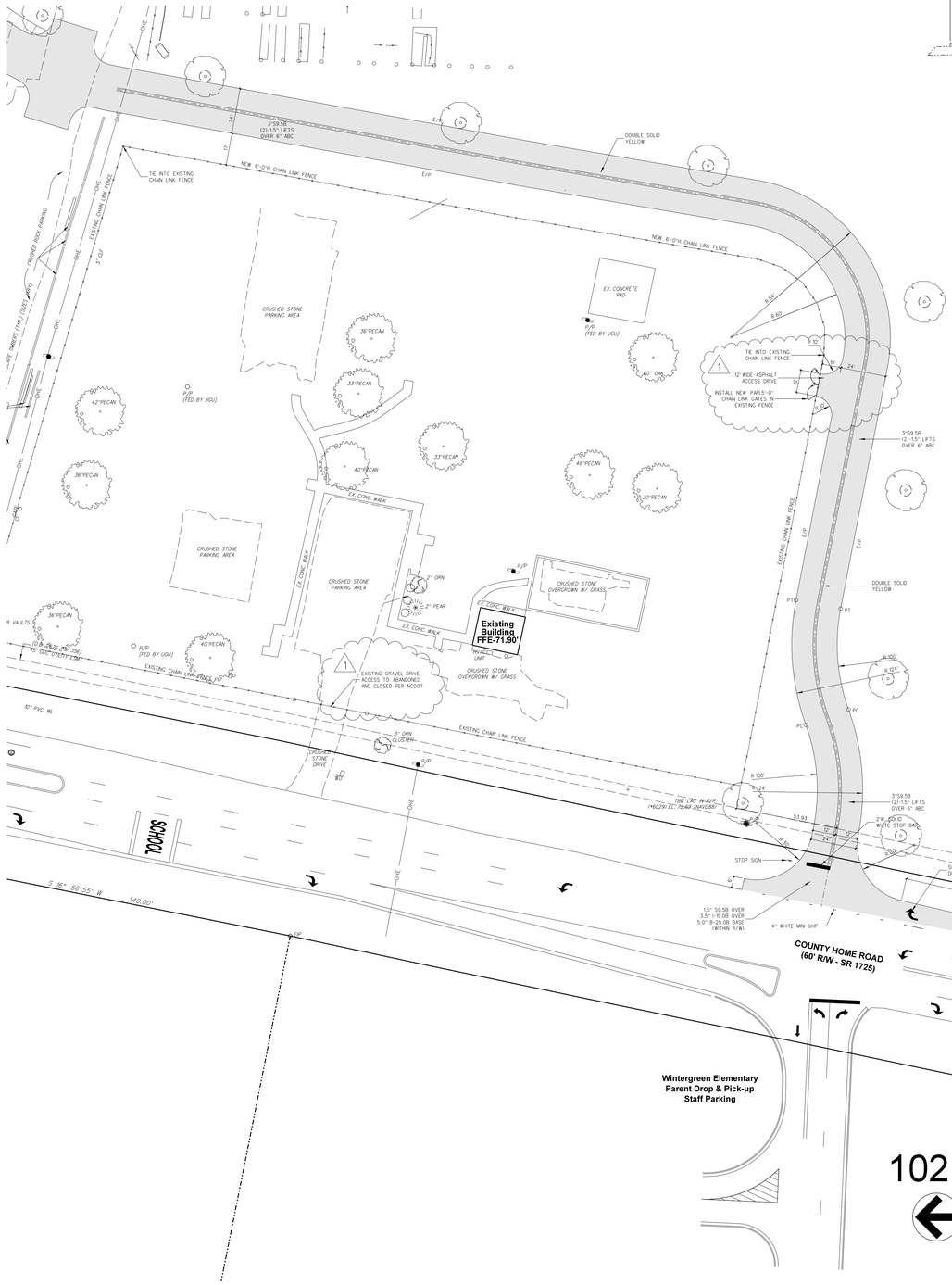

102.2 SECTION @ ROADWAY
SCALE: 1/4 " = 1'-0"

102.1 SITE GEOMETRY PLAN
SCALE: 1" = 30'-0"

30 0 30 60 90 FEET
GRAPHIC SCALE

No.	Date	Revision
1	7-20-23	REVISED PER NCDOT COMMENTS

Hite associates
ARCHITECTURE / PLANNING / TECHNOLOGY
2600 Meridian Drive / Greenville, NC 27834 / tel (252) 757-0333

CIVIL ENGINEERING CONSULTANT:
J. STEPHEN JANOWSKI, P.E.
Rivers & Associates, Inc.
License No. F-0334
107 East 2nd Street, Greenville, NC
(252)-714-3002

HITE ASSOCIATES, P.C. ARCHITECTURAL CORPORATION LICENSE NUMBER 4118 GREENVILLE, N.C. SEAL OF NORTH CAROLINA 07/31/2018

J. STEPHEN JANOWSKI 23931 REGISTERED PROFESSIONAL ENGINEER SEAL

COMMUNITY CENTER AND GYMNASIUM FOR
Alice F. Keene District Park
4561 County Home Road, Greenville, NC 27858

Project No.: 22207
Date: December 1, 2022
Drawing no.: C 102

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Sediment Basin		
Alice Keene		
Greenville, NC		
Okay		
13.42	Disturbed Area (Acres)	
19.60	Peak Flow from 10-year Storm (cfs)	
24156	Required Volume ft³	
8538	Required Surface Area ft²	
65.3	Suggested Width ft	
130.7	Suggested Length ft	
70	Trial Top Width at Spillway Invert ft	
235	Trial Top Length at Spillway Invert ft	
2	Trial Side Slope Ratio Z:1	
2	Trial Depth ft	(2 to 13 feet above grade)
62	Bottom Width ft	
227	Bottom Length ft	
14074	Bottom Area ft²	
30503	Actual Volume ft³	Okay
16450	Actual Surface Area ft²	Okay

Use Spillway Capacity Sheet to Size Primary and Emergency Spillways

		Skimmer Size (Inches)
6	Skimmer Size (inches)	1.5
0.417	Head on Skimmer (feet)	2
2.5	Orifice Size (1/4 inch increments)	2.5
3.27	Dewatering Time (days)	3
	Suggest about 3 days	4
		5
		6
		8

EROSION CONTROL LEGEND

- TST # — TEMPORARY SEDIMENT TRAP
- LIMITS OF CONSTRUCTION / DISTURBANCE
- TEMPORARY DIVERSION SWALE
- TEMPORARY ROCK CHECK DAM
- TEMPORARY STORM INLET SEDIMENT TRAP
- TEMPORARY SEDIMENT FENCE
- EXCELSIOR NETTING DITCH LINER
- STONE RIP RAP

LEGEND IS FOR REFERENCE ONLY; SYMBOLS / ABBREVIATIONS SHOWN DO NOT NECESSARILY APPLY TO THIS PROJECT.

NOTE: SEE GRADING & DRAINAGE LEGEND ON C-201 FOR OTHER SYMBOLS AND ABBREVIATIONS

North Carolina 811 — www.nc811.org

EACH PIPING CONTRACTOR PERFORMING EXCAVATING OR OTHER GROUND WORK SHALL BE RESPONSIBLE FOR THE LOCATION OF ANY EXISTING UTILITIES IN THE AREA OF THEIR WORK.NOTIFY THE NC ONE CALL CENTER AT 1-800-632-4949 AT LEAST 72 HOURS PRIOR TO BEGINNING EXCAVATION. IN ADDITION, ALL PRIVATE UTILITIES IN THE AREA MAY BE FLAGGED AND STAKED.ALSO CONTACT PITT COUNTY FOR ANY PRIVATE UTILITIES THAT COULD BE IN THE AREA.CONTRACTOR SHALL USE ALL CARE NECESSARY WHEN WORKING IN AREAS KNOWN OR SUSPECTED TO CONTAIN UNDERGROUND UTILITIES INCLUDING HAND DIGGING.

NORTH

TOTAL DISTURBED AREA = 7.0 Acres

Existing Building FFE-69.67'

Existing Building FFE-71.90'

Temporary Sediment Basin Top = 68.00' W/S = 62.50' Spillway = 62.50' Bottom = 60.50' (SA = 11,849.88 S.F.)

CONCRETE WASH OUT AREA WITH SIGNAGE

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE, SEE DETAIL

TEMPORARY SILT FENCE

LIMITS OF CONSTRUCTION

SEDIMENT BASIN BAFFLES SEE SHEET C-304

CONTROL STRUCTURE SEE DETAIL C-304

6" SKIMMER WITH 2.5" ORIFICE

ROCK SPILLWAY 62.50'

CLASS "B" STONE RIP RAP 10'x1'x18"-THK

18" FES INV=62.26'

78 LF 18" RCP @ 0.3%

24" FES INV=62.50'

TEMPORARY CONVEYANCE STRUCTURE RIP-RAP CALLS "B" STONE

10'X5'X18"-THK CLASS "B" STONE RIP RAP OVER FILTER FABRIC

24" FES INV=63.50

STUB OUT 24" RCP (TEMPORARY CAP OFF)

DI-1 CRATE-68.00' INV=62.82'

57 LF 24" RCP @ 0.70%

HARDWARE CLOTH AND GRAVEL INLET PROTECTION (TYPICAL AROUND ALL DROP INLETS)

TEMPORARY ROCK SILT FENCE OUTLET

COUNTY HOME ROAD (60' R/W - SR 1725)

Pitt County Animal Shelter d Collection Site Bells Fork

200.1 INITIAL SITE EROSION CONTROL PLAN

SCALE: 1" = 30'-0"

30 0 30 60 90 FEET

GRAPHIC SCALE

No.	Date	Revision

Hite associates
ARCHITECTURE / PLANNING / TECHNOLOGY
2600 Meridian Drive / Greenville, NC 27834 / tel (252) 757-0333

HITE ASSOCIATES, P.C. — ARCHITECTURAL CORPORATION — CERTIFICATE NUMBER C-418 — GREENVILLE, NORTH CAROLINA

CIVIL ENGINEERING CONSULTANT:
J. STEPHEN JANOVSKI, P.E.
Rivers & Associates, Inc.
Lic. No. FC4334
107 East 2nd Street, Greenville, NC
(252)-714-3002

COMMUNITY CENTER AND GYMNASIUM FOR

Alice F. Keene District Park

4561 County Home Road, Greenville, NC 27858

Project No.	22207
Date:	December 1, 2022
Drawing no.	C 200

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EROSION CONTROL LEGEND

TST #	TEMPORARY SEDIMENT TRAP
	LIMITS OF CONSTRUCTION / DISTURBANCE
	TEMPORARY DIVERSION SWALE
	TEMPORARY ROCK CHECK DAM
	TEMPORARY STORM INLET SEDIMENT TRAP
-SF-	TEMPORARY SEDIMENT FENCE
	EXCELSIOR NETTING DITCH LINER
	STONE RIP RAP

LEGEND IS FOR REFERENCE ONLY; SYMBOLS / ABBREVIATIONS SHOWN DO NOT NECESSARILY APPLY TO THIS PROJECT.

NOTE: SEE GRADING & DRAINAGE LEGEND ON C-201 FOR OTHER SYMBOLS AND ABBREVIATIONS

North Carolina 811
www.nc811.org
EACH PRIME CONTRACTOR PERFORMING EXCAVATIONS OR UNDERGROUND WORK SHALL BE RESPONSIBLE FOR THE LOCATION OF ANY EXISTING UTILITIES IN THE AREA OF THEIR WORK,NOTIFY THE NC ONE CALL CENTER AT 1-800-632-4949 AT LEAST 72 HOURS PRIOR TO BEGINNING WORK AND ENSURE THAT ALL UNDERGROUND UTILITIES IN THE AREA MAY BE FLAGGED AND STAKED.ALSO CONTACT PITT COUNTY FOR ANY PRIVATE UTILITIES THAT COULD BE IN THE AREA.EXCAVATE WITH CARE AROUND ALL UTILITIES WHEN WORKING IN THEIR VICINITY. WORK MAY BE SUSPECTED TO CONTAIN UNDERGROUND UTILITIES INCLUDING HVAC (SIGNS).

TOTAL DISTURBED AREA = 7.0 Acres

TEMPORARY SILT FENCE

TEMPORARY ROCK SILT FENCE OUTLET

LIMITS OF CONSTRUCTION

STUB OUT 24" RCP (TEMPORARY CAP OFF)

DI-1 GRATE-68.00' INV-62.82'

24" RCP @ 0.5%

INV 63.20HARDWARE CLOTH AND GRAVEL INLET PROTECTION (TYPICAL AROUND ALL DROP INLETS)

SEDIMENT BASIN BAFFLES SEE SHEET C-304

TOP OF DITCH BANK (TYP.)

INV. 63.05

INV. 62.82

24"ES INV-62.50'

TEMPORARY CONVEYANCE STRUCTURE RIP-RAP CALLS "B" STONE

SEPTIC TANK (TOP-71.45 +/-)

8" BLOCK RETAINING WALL

4" PVC (POSSIBLE SEPTIC LINE)

EX. CONCRETE PAD

POTENTIAL ON-SITE SEPTIC/FIELDS (NO RESPONSE FROM PITT COUNTY ENVIROMENTAL DEPARTMENT YET)

CRUSHED STONE PARKING AREA

Existing Building FFE-71.90'

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE, SEE DETAIL

COUNTY HOME ROAD (60' R/W - SR 1725)

100KDS

East Carolina Village of Yesteryear and Farm Museum
B.B. 2559, PG. 40
M.E. 72, PG. 44
PARCEL #78409

COUNTY OF BUP
D.B. 0Q,427 PG. 284
M.B. 25 PG. 153/A
P.N. 59604

Wintergreen Elementary Parent Drop & Pick-up Staff Parking

Wintergreen El and Interm Bus Ent

NORTH

201.1 INITIAL SITE EROSION CONTROL PLAN

SCALE: 1" = 30'-0"

30 0 30 60 90 FEET

GRAPHIC SCALE

No.	Date	Revision

Hite associates
ARCHITECTURE / PLANNING / TECHNOLOGY
2600 Meridian Drive / Greenville, NC 27834 / tel (252) 757-0333

CIVIL ENGINEERING CONSULTANT:
J. STEPHEN JANOWSKI, P.E.
Rivers & Associates, Inc.
License No. F-0334
107 East 2nd Street, Greenville, NC
(252)-714-3002

HITE ASSOCIATES, P.C. — CORPORATE NUMBER 418 — GREENVILLE, NORTH CAROLINA

COMMUNITY CENTER AND GYMNASIUM FOR

Alice F. Keene District Park

4561 County Home Road, Greenville, NC 27858

Project No.	22207
Date:	December 1, 2022
Drawing no.	C 201

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202.1 FINAL SITE EROSION CONTROL PLAN

SCALE: 1" = 30'-0"

30 0 30 60 90 FEET

GRAPHIC SCALE

NORTH

EROSION CONTROL LEGEND

TST #	TEMPORARY SEDIMENT TRAP
	LIMITS OF CONSTRUCTION / DISTURBANCE
	TEMPORARY DIVERSION SWALE
	TEMPORARY ROCK CHECK DAM
	TEMPORARY STORM INLET SEDIMENT TRAP
SF	TEMPORARY SEDIMENT FENCE
	EXCELSIOR NETTING DITCH LINER
	STONE RIP RAP
	COIR FIBER WATTLE

LEGEND IS FOR REFERENCE ONLY; SYMBOLS / ABBREVIATIONS SHOWN DO NOT NECESSARILY APPLY TO THIS PROJECT.

NOTE: SEE GRADING & DRAINAGE LEGEND ON C-201 FOR OTHER SYMBOLS AND ABBREVIATIONS

North Carolina 811 www.nc811.org

EACH PRIME CONTRACTOR PERFORMING EXCAVATIONS OR UNDERGROUND WORK SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES IN THE AREA OF THEIR WORK. NOTIFY THE NC ONE CALL CENTER AT 1-800-632-4949 AT LEAST 72 HOURS PRIOR TO COMMENCING CONSTRUCTION IN ORDER THAT EXISTING UTILITIES IN THE AREA MAY BE FLAGGED AND STAKED. ALSO CONTACT ALL OWNERS OF UTILITIES NOT MEMBERS OF NC ONE CALL. THE AREA CONTRACTOR SHALL USE ALL CARE NECESSARY WHEN WORKING IN AREAS KNOWN OR SUSPECTED TO CONTAIN UNDERGROUND UTILITIES INCLUDING HAND DIGGING.

No.	Date	Revision

Hite associates
ARCHITECTURE / PLANNING / TECHNOLOGY
2600 Meridian Drive / Greenville, NC 27834 / tel (252) 757-0333

HITE ASSOCIATES, P.C. — CORPORATE NUMBER C-1418 — GREENVILLE, NORTH CAROLINA

CIVIL ENGINEERING CONSULTANT:
J. STEPHEN JANOVSKI, P.E.
Registration No. 24004
107 East 2nd Street, Greenville, NC
(252)-714-3002

COMMUNITY CENTER AND GYMNASIUM FOR
Alice F. Keene District Park
4561 County Home Road, Greenville, NC 27858

Project No. 22207
Date: December 1, 2022
Drawing no. C 202

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SWALE CALCULATIONS for Temporary Swale
ALICE KEENE
GREENVILLE, NC

Swale 1 in temporary condition

Outlet Based on 2 year storm

Total watershed area (Ac)	0.65			
Land Type		Rational C	CN	Acres
Area Impervious		0.95	98	0.07
Denuded with temporary seeding		0.35	60	0.58
Total watershed area				0.65
Composite		0.41		
	Overland	Channelized		
Hydraulic Length (ft)	197	200		
Vertical Relief (ft)	2.00	4.00		

Time of Concentration: $t_c = \frac{L^{0.8}}{H^{0.5}} / 128$

	Overland	Channelized	Total	
Time (min)	5.35	2.08	10.00	If Tc<10, use 10 min
Travel Factor	2	1		
Rainfall Intensity =	I = g/(h+T)	5.0	inches per hr	
Peak Discharge =	Q=CIA	1.3	cfs	

Right Side Slope	Left Side Slope	n=	Slope	Channel Velocity	Flow Depth
2.00	2.00	0.022	2.00%	3.37 fps	0.45 ft

Tractive Force		use temporary liner			
Td= YDS (lb/sf)	0.556	Straw netting	Td=	1.45 lb/sf	ok

SWALE CALCULATIONS for Temporary Swale
ALICE KEENE
GREENVILLE, NC

Swale 2 in temporary condition

Outlet Based on 2 year storm

Total watershed area (Ac)	0.14			
Land Type		Rational C	CN	Acres
Area Impervious		0.95	98	0.06
Denuded with temporary seeding		0.35	60	0.08
Total watershed area				0.14
Composite		0.61		
	Overland	Channelized		
Hydraulic Length (ft)	20	200		
Vertical Relief (ft)	1.50	4.00		

Time of Concentration: $t_c = \frac{L^{0.8}}{H^{0.5}} / 128$

	Overland	Channelized	Total	
Time (min)	0.43	2.08	10.00	If Tc<10, use 10 min
Travel Factor	2	1		
Rainfall Intensity =	I = g/(h+T)	5.0	inches per hr	
Peak Discharge =	Q=CIA	0.4	cfs	

Right Side Slope	Left Side Slope	n=	Slope	Channel Velocity	Flow Depth
2.00	2.00	0.022	2.00%	2.57 fps	0.29 ft

Tractive Force		use temporary liner			
Td= YDS (lb/sf)	0.358	June netting =	Td=	0.45 lb/sf	ok

SWALE CALCULATIONS for Temporary Swale
ALICE KEENE
GREENVILLE, NC

Swale 3 in temporary condition

Outlet Based on 2 year storm

Total watershed area (Ac)	0.16			
Land Type		Rational C	CN	Acres
Area Impervious			98	0.05
denuded with temporary seeding		0.35	60	0.11
Total watershed area				0.16
Composite		0.24		
	Overland	Channelized		
Hydraulic Length (ft)	20	200		
Vertical Relief (ft)	1.00	4.00		

Time of Concentration: $t_c = \frac{L^{0.8}}{H^{0.5}} / 128$

	Overland	Channelized	Total	
Time (min)	0.50	2.08	10.00	If Tc<10, use 10 min
Travel Factor	2	1		
Rainfall Intensity =	I = g/(h+T)	5.0	inches per hr	
Peak Discharge =	Q=CIA	0.2	cfs	

Right Side Slope	Left Side Slope	n=	Slope	Channel Velocity	Flow Depth
2.00	2.00	0.022	2.00%	1.96 fps	0.22 ft

Tractive Force		use temporary liner			
Td= YDS (lb/sf)	0.276	June netting =	Td=	0.45 lb/sf	ok

EROSION CONTROL LEGEND

TST #	TEMPORARY SEDIMENT TRAP
	LIMITS OF CONSTRUCTION / DISTURBANCE
	TEMPORARY DIVERSION SWALE
	TEMPORARY ROCK CHECK DAM
	TEMPORARY STORM INLET SEDIMENT TRAP
	TEMPORARY SEDIMENT FENCE
	EXCELSIOR NETTING DITCH LINER
	STONE RIP RAP
	COIR FIBER WATTLE

LEGEND IS FOR REFERENCE ONLY; SYMBOLS / ABBREVIATIONS SHOWN DO NOT NECESSARILY APPLY TO THIS PROJECT.

NOTE: SEE GRADING & DRAINAGE LEGEND ON C-201 FOR OTHER SYMBOLS AND ABBREVIATIONS

SWALE CALCULATIONS for Temporary Swale
ALICE KEENE
GREENVILLE, NC

Swale 4 in temporary condition

Outlet Based on 2 year storm

Total watershed area (Ac)	0.29			
Land Type		Rational C	CN	Acres
Area Impervious			98	0.09
denuded with temporary seeding		0.35	60	0.20
Total watershed area				0.29
Composite		0.24		
	Overland	Channelized		
Hydraulic Length (ft)	24	330		
Vertical Relief (ft)	1.00	1.70		

Time of Concentration: $t_c = \frac{L^{0.8}}{H^{0.5}} / 128$

	Overland	Channelized	Total	
Time (min)	0.61	5.16	10.00	If Tc<10, use 10 min
Travel Factor	2	1		
Rainfall Intensity =	I = g/(h+T)	5.0	inches per hr	
Peak Discharge =	Q=CIA	0.3	cfs	

Right Side Slope	Left Side Slope	n=	Slope	Channel Velocity	Flow Depth
2.00	2.00	0.022	0.52%	1.58 fps	0.33 ft

Tractive Force		use temporary liner			
Td= YDS (lb/sf)	0.107	June netting =	Td=	0.45 lb/sf	ok

SWALE CALCULATIONS for Temporary Swale
ALICE KEENE
GREENVILLE, NC

Swale 5 in temporary condition

Outlet Based on 2 year storm

Total watershed area (Ac)	0.71			
Land Type		Rational C	CN	Acres
Area Impervious			98	0.09
denuded with temporary seeding		0.35	60	0.62
Total watershed area				0.71
Composite		0.31		
	Overland	Channelized		
Hydraulic Length (ft)	50	260		
Vertical Relief (ft)	1.00	2.30		

Time of Concentration: $t_c = \frac{L^{0.8}}{H^{0.5}} / 128$

	Overland	Channelized	Total	
Time (min)	1.11	3.49	10.00	If Tc<10, use 10 min
Travel Factor	2	1		
Rainfall Intensity =	I = g/(h+T)	5.0	inches per hr	
Peak Discharge =	Q=CIA	1.1	cfs	

Right Side Slope	Left Side Slope	n=	Slope	Channel Velocity	Flow Depth
2.00	2.00	0.022	0.88%	2.27 fps	0.49 ft

Tractive Force		use temporary liner			
Td= YDS (lb/sf)	0.269	June netting =	Td=	0.45 lb/sf	ok

SWALE CALCULATIONS for Temporary Swale
ALICE KEENE
GREENVILLE, NC

Swale 6 in temporary condition

Outlet Based on 2 year storm

Total watershed area (Ac)	0.19			
Land Type		Rational C	CN	Acres
Area Impervious			98	0.04
denuded with temporary seeding		0.35	60	0.15
Total watershed area				0.19
Composite		0.28		
	Overland	Channelized		
Hydraulic Length (ft)	35	148		
Vertical Relief (ft)	1.00	3.00		

Time of Concentration: $t_c = \frac{L^{0.8}}{H^{0.5}} / 128$

	Overland	Channelized	Total	
Time (min)	0.95	1.64	10.00	If Tc<10, use 10 min
Travel Factor	2	1		
Rainfall Intensity =	I = g/(h+T)	5.0	inches per hr	
Peak Discharge =	Q=CIA	0.3	cfs	

Right Side Slope	Left Side Slope	n=	Slope	Channel Velocity	Flow Depth
2.00	2.00	0.022	2.03%	1.98 fps	0.26 ft

Tractive Force		use temporary liner			
Td= YDS (lb/sf)	0.325	June netting =	Td=	0.45 lb/sf	ok

TOTAL DISTURBED AREA = 7.0 Acres

Forebay Bot.=59.00'

Existing Building FFE=71.90'

East Carolina Village of Yesteryear and Farm Museum

Wintergreen Elementary Parent Drop & Pick-up Staff Parking

COUNTY HOME ROAD (60' R/W - SR 1725)

SCHOOL

LIMITS OF CONSTRUCTION

TEMPORARY SILT FENCE

HARDWARE CLOTH & GRAVEL INLET PROTECTION (TYPICAL AROUND ANN NEW DROP INLETS AND CATCH BASINS)

HARDWARE CLOTH AND GRAVEL INLET PROTECTION (TYPICAL AROUND ALL DROP INLETS)

GENERAL CONTRACTOR SHALL COORDINATE MATERIALS LAYDOWN, STAGING AREA AND CONTRACTOR PARKING AS REQUIRED BOTH IN SAME AREA WITHIN THE LIMITS OF DISTURBANCE

PROTECT EXISTING SITE TREES AND LANDSCAPING TO REMAIN AS REQUIRED (TYPICAL)

COIR FIBER WATTLES SEE DETAIL (TYPICAL)

LINE SWALE WITH STRAW NET LINE

TEMPORARY ROCK SILT FENCE OUTLET

TEMPORARY ROCK CHECK DAM

CLASS "B" STONE RIP RAP 5'x5'x18" THK

CLASS "B" STONE RIP RAP 10'x10'x18" THK

20'x20'x22" THICK CLASS "B" RIPRAP

8'X5'X18"THK CLASS "B" STONE RIP RAP OVER FITER FABRIC

10'X5'X18"THK CLASS "B" STONE RIP RAP OVER FITER FABRIC

48 LF-15" RCP @ 0.63%

18" RCP - 63' LF @ 0.32%

15" FES INV-69.60

15" FES INV-69.90'

18" FES INV-69.00'

24" FES INV-63.50'

38" FES INV-62.50'

24 FES INV-62.50'

EX CONCRETE PAD

POTENTIAL ON-SITE SEPTIC/FIELDS NO RESPONSE FROM PITT COUNTY ENVIROMENTAL DEPARTMENT INQUIRY

CRUSHED STONE PARKING AREA

CRUSHED STONE OVERGROWN BY GRASS

LANDSCAPED AREA

WIDE CONCRETE FOUNDATION

GARDEN BOXES

EXISTING PVC PIPES AND GREEN CLEAN OUT

GAZEBO

GRAVEL PARKING AREA

LANDSCAPE PARKING ISLAND

WATER VALVE MANHOLE

GAS VALVE

GATE SOIL FOOT PATH

GAZ WIDE STONE PAVER RETAINING WALL

ORANGE ROCK WALL

ASPHALT PATH

CONCRETE PATH

SIDEWALK

CURB & GUTTER

EDGE OF PAVEMENT

PROPERTY LINE

EXISTING TREE LINE

EXISTING CONTOUR

PROPOSED CONTOUR

SILT FENCE

STORM DRAIN PIPE

SANITARY SEWER LINE

WATER LINE

GAS LINE

OVERHEAD UTILITY LINE

UNDERGROUND UTILITY LINE

TREE PROTECTION FENCE

SIGN

LIGHT POLE

FIRE HYDRANT

TRAFFIC SIGNAL

TRAFFIC SIGNAL CONTROL BOX

TRAFFIC SIGNAL PEDESTRIAN BUTTON

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LEGEND

EIP - EXISTING IRON PIPE	UG - UNDERGROUND	W — W — WATER LINE - PROPOSED/EXISTING
IPS - IRON PIPE SET	OH - OVERHEAD	FL — FL — FIRE LINE - PROPOSED/EXISTING
NPS - NO POINT SET	EIP - EXISTING IRON PIPE	1" - 2" WATER LINE PROPOSED
ECM - EXISTING CONCRETE MONUMENT	F/F - FINISH FLOOR	SS — SS — SANITARY SEWER - EXISTING
R/W - RIGHT OF WAY	P/S - POINT OF SERVICE	SANITARY SEWER - PROPOSED
B/M - BENCH MARK	WM - WATER METER	FM — FM — FORCE MAIN - PROPOSED/EXISTING
R/RS - RAILROAD SPIKE	F/H - FIRE HYDRANT	OHE — OHE — OVERHEAD POWER - NEW/EXISTING
B/B - BACK OF CURB TO BACK OF CURB	FES - FLARED END SECTION	G — G — U.G. GAS LINE - NEW/EXISTING
S/D - SIGHT DISTANCE	H/W - HEAD WALL	UE — UE — U.G. ELECTRICAL LINE - NEW/EXISTING
MBL - MINIMUM BUILDING LINE	B/O - BLOW OFF	C/T — C/T — U.G. COMMUNICATIONS / TELEP/TPHONE
R. - RADIUS	GV - GATE VALVE	TELECOMM — U.G. COMMUNICATIONS / TELEP/TPHONE
C/L - CENTERLINE	BV - BALL VALVE	PROPOSED STORM DRAINAGE
P/L - PROPERTY LINE	EL. - ELEVATION	PROPOSED HP DRAINAGE PIPE
H/C - HANDICAP	P/P - POWER POLE	EXISTING STORM DRAINAGE
TC - TOP OF CURB/CONCRETE	T/P - TELEPHONE/ PED.	+×140.00 PROPOSED SPOT ELEVATION
TP - TOP OF PAVEMENT	L/P - LIGHT POLE	×140.00 EXISTING SPOT ELEVATION
TW - TOP OF WALK	CB - CATCH BASIN	190 EXISTING CONTOUR
TCW - TOP OF CONCRETE WALK	DI - DROP INLET	191 PROPOSED CONTOUR
TCP - TOP OF CONCRETE PAD	STOR - SLAB TOP DROP INLET	FENCE LINE
TG - TOP OF GRADE	D/P - DUCTILE IRON PIPE	UTILITY TIE-IN CONNECTION POINT
FG - FINISH GRADE	Y.I. - YARD INLET	DIRECTION OF SWALE / FLOW
E/P - EDGE OF PAVEMENT	INV - INVERT	
C&G - CURB & GUTTER	C/O - CLEAN OUT	
EP/EP - EDGE PVMT.-TO-EDGE PVMT.	MH - MANHOLE	
CMP - CORRUGATED METAL PIPE	SS - SANITARY SEWER	
RCP - REINFORCED CONCRETE PIPE	SD - STORM DRAIN	
GC - GENERAL CONTRACTOR	JB - JUNCTION BOX	
PC - PLUMBING CONTRACTOR	SC - SITE CONTRACTOR	
MC - MECHANICAL CONTRACTOR	EC - ELECTRICAL CONTRACTOR	

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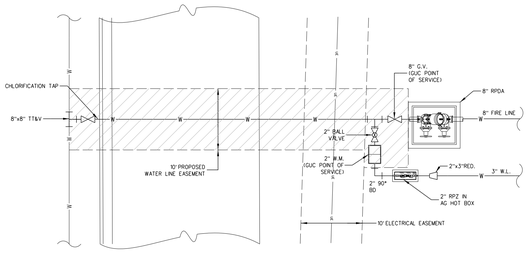
North Carolina 811 www.nc811.org

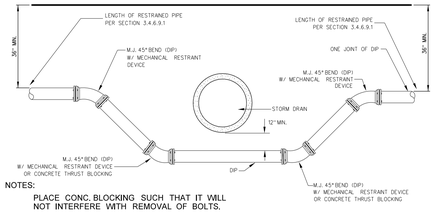
EACH PRIME CONTRACTOR PERFORMING EXCAVATIONS OR UNDERGROUND WORK SHALL BE RESPONSIBLE FOR THE LOCATION OF ANY EXISTING UTILITIES IN THE AREA OF THEIR WORK NOTIFY THE NC-811 ONE-CALL CENTER BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE PROPOSED CONSTRUCTION IN ORDER THAT EXISTING UTILITIES IN THE AREA MAY BE FLAGGED AND STAKED ALSO CONTACT PITT COUNTY FOR ANY PRIVATE UTILITIES THAT COULD BE IN THE AREA CONTRACTOR SHALL USE ALL CARE NECESSARY WHEN WORKING IN ROOTS KNOWN OR SUSPECTED TO CONTAIN UNDERGROUND UTILITIES INCLUDING HAND DIGGING



1 204.2 WATER LINE SERVICE
SCALE: None

NOTES:

1. TEMPORARY CHLORINATION TAPS AND BACTERIOLOGICAL SAMPLE POINTS SHALL BE CONSTRUCTED OF THE SAME MATERIALS AS ONE INCH WATER SERVICES. TEMPORARY APPURTENANCES SHALL BE INSTALLED SUCH THAT THE ANGLE BALL VALVE IS SECURELY LOCATED 36" MIN. ABOVE FINISH GRADE. UPON APPROVAL OF FINAL BACTERIOLOGICAL SAMPLES THE TUBING AND ANGLE BALL VALVE SHALL BE REMOVED, THE CORPORATION STOP CLOSED AND THE CAP PLACED ON THE CORPORATION STOP.
2. THIS PROJECT WILL REQUIRE THE SUBMITTAL OF A CONSTRUCTION PLAN AND SHOP DRAWINGS FOR APPROVAL AND AN EXECUTED HOLD HARMLESS AGREEMENT PRIOR TO SCHEDULING A REQUIRED PRE-CONSTRUCTION CONFERENCE. CALL 252-551-1551 TO SCHEDULE THE CONFERENCE. NO UTILITY WORK CAN TAKE PLACE WITHOUT A PRE-CONSTRUCTION CONFERENCE.
3. NO VALVES SHALL BE LOCATED IN THE CURB AND GUTTER.



NOTES:

PLACE CONC. BLOCKING SUCH THAT IT WILL NOT INTERFERE WITH REMOVAL OF BOLTS.

PIPE DIAMETER GREATER THAN 12" SEE GUC ENGINEERING DEPT.

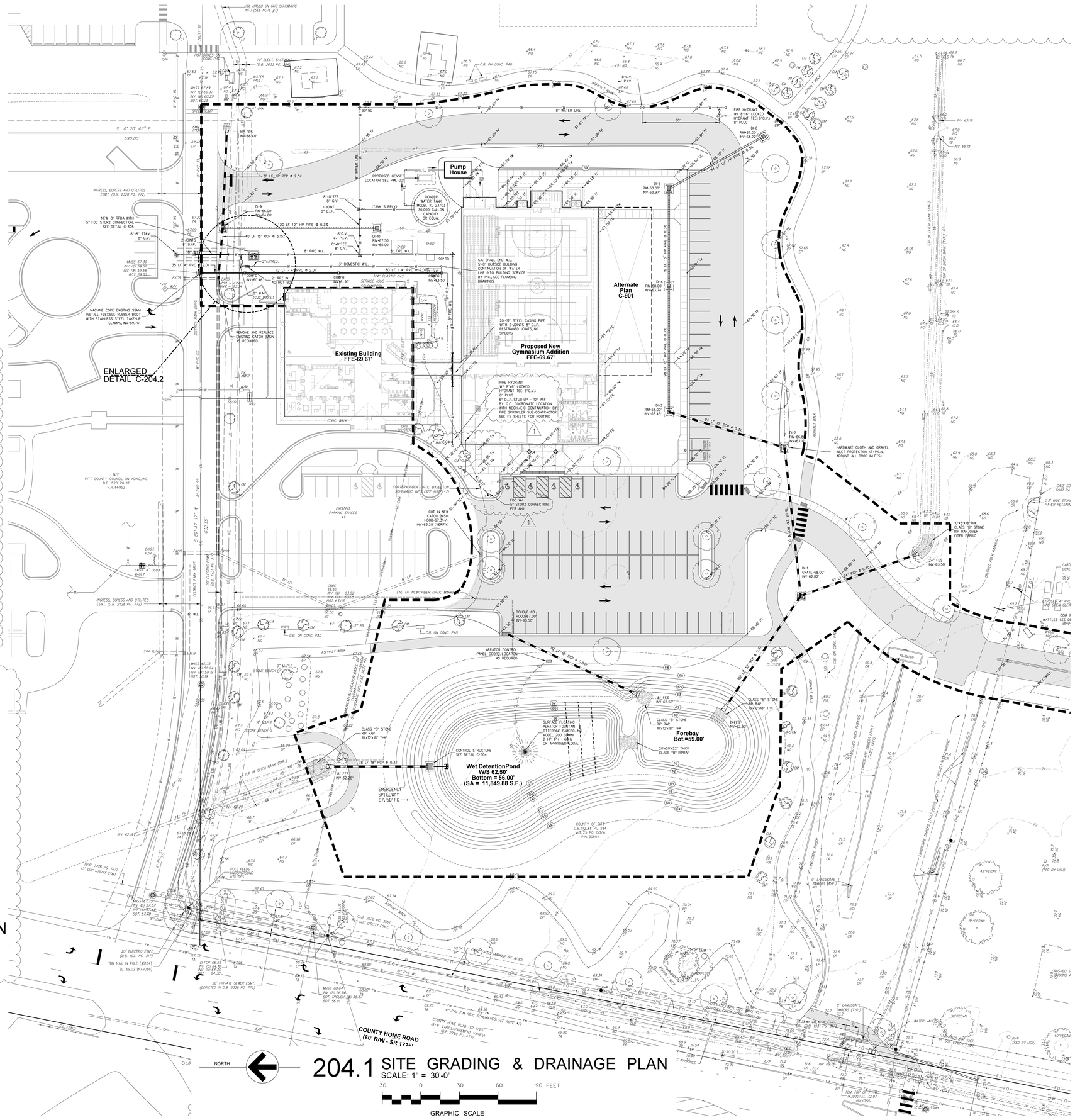
PIPE LENGTHS SHALL BE AS REQUIRED TO CONSTRUCT CROSSING.

ALL JOINTS TO BE RESTRAINED IN ACCORDANCE WITH MANUAL.

WATER MAIN AND STORM DRAIN CROSSING

W-14

1 204.2 WATER MAIN STORM DRAIN CROSSING (W-14)
SCALE: None


Pump House
PROPOSED GENSET LOCATION SEE PME-001
PIONEER WATER TANK MODEL XL 23/03 30,000 GALLON CAPACITY OR EQUAL
Existing Building FFE=69.67'
Proposed New Gymnasium Addition FFE=69.67'
Alternate Plan C-901
Wet DetentionPond W/S 62.50' Bottom = 56.00' (SA = 11,849.88 S.F.)
Forebay Bot.=59.00'
ENLARGED DETAIL C-204.2
MACHINE CORE EXISTING SSMH INSTALL FLEXIBLE RUBBER BOOT WITH STAINLESS STEEL TAKE-UP CLAMPS, INV=59.76'
REMOVE AND REPLACE EXISTING CATCH BASIN AS REQUIRED
FIRE HYDRANT W/ 8"x6" LOCKED HYDRANT TEE(6"G.V.) 8" PLUG
FIRE HYDRANT W/ 8"x6" LOCKED HYDRANT TEE(6"G.V.) 8" PLUG
FDC W/ 5" STORZ CONNECTION PER AHJ
CUT IN NEW CATCH BASIN HOOD=67.35+/- INV=63.28' (VERIFY)
EXISTING PARKING SPACES 41
HARDWARE CLOTH AND GRAVEL INLET PROTECTION (TYPICAL AROUND ALL DROP INLETS)
AERATOR CONTROL PANEL COORD LOCATION AS REQUIRED
CONTROL STRUCTURE SEE DETAIL C-304
EMERGENCY SPILLWAY 67.50' FG
CLASS "B" STONE RIP RAP 10'x10'x18" THK
CLASS "B" STONE RIP RAP 10'x10'x18" THK
CLASS "B" STONE RIP RAP 10'x10'x18" THK
20'x20'x22" THICK CLASS "B" RIPRAP
10'X5'X18"THK CLASS "B" STONE RIP RAP OVER FITER FABRIC
0.3' WIDE STONE PAVER RETAINER
GATE SD FOOT PA
CURB INLET
WATTLES SEE DE
PROPOSED 8" RPDA WITH 5" FDC STORZ CONNECTION SEE DETAIL C-305
20 LF 12" RCP @ 2.5%
40 LF 15" RCP @ 3.15%
35 LF 4" PVC @ 2.0%
72 LF - 4" PVC @ 2.0%
80 LF - 4" PVC @ 2.0%
76 LF 18" RCP @ 0.3%
98 LF 18" RCP @ 0.3%
76 LF 15" HP PIPE @ 0.3%
98 LF 15" HP PIPE @ 0.3%
64 LF 12" HP PIPE @ 0.3%
24" FES INV=63.50
18" FES INV=62.50
18" FES INV=62.26'
24"FES INV=62.50'
DI-1 GRATE=68.00' INV=62.82'
DI-2 RIM=66.88 INV=63.13'
DI-3 RIM=68.00' INV=63.45'
DI-4 RIM=68.00' INV=63.74'
DI-5 RIM=68.00' INV=63.97'
DI-6 RIM=67.00' INV=64.22'
DI-9 RIM=66.00' INV=64.60'
DI-10 RIM=67.50' INV=65.00'
DCBC 1 INV=63.50'
DCBC 2 INV=61.90'
2" RPZ IN AG HOT BOX
2" M.M. (GUC POINT OF SERVICE)
8" G.V. (GUC POINT OF SERVICE)
8"x8" TT&V
8"x8"TEE 8" G.V.
1-JOINT 8" D.I.P.
2-JOINTS 8" D.I.P.
ITANK SUPPLY
8" FIRE W.L.
3" DOMESTIC W.L.
5.4" PLASTIC GAS
S.C. SHALL END W.L. 5'-0" OUTSIDE BUILDING CONTINUATION OF WATER LINE INTO BUILDING SERVICE BY P.C., SEE PLUMBING DRAWINGS
20'-12" STEEL CASING PIPE WITH 2-JOINTS 8" D.I.P. RESTRAINED JOINTS, NO SPIDERS
SURFACE FLOATING AERATOR FOUNTAIN OTTERINE-BIRDEO, INC. MODEL 200 OMNI 2 HP, 9PH - 60Hz OR APPROVED EQUAL
FIRE HYDRANT W/ 8"x6" LOCKED HYDRANT TEE(6"G.V.) 8" PLUG 8" D.I.P. STUB-UP - 12" AFF BY G.C., COORDINATE LOCATION WITH MECH./E.C. CONTINUATION BY FIRE SPRINKLER SUB-CONTRACTOR SEE FS SHEETS FOR ROUTING
10' ELECT. EASEMENT (D.B. 2633 PG. 764)
C.B. ON CONC. PAD
8'G.V. w/ P.I.V.
8"x8"TEE 8" G.V.
SHED 8" FIRE W.L.
SHED
8" WATER LINE
8" WATER LINE
8" WATER LINE

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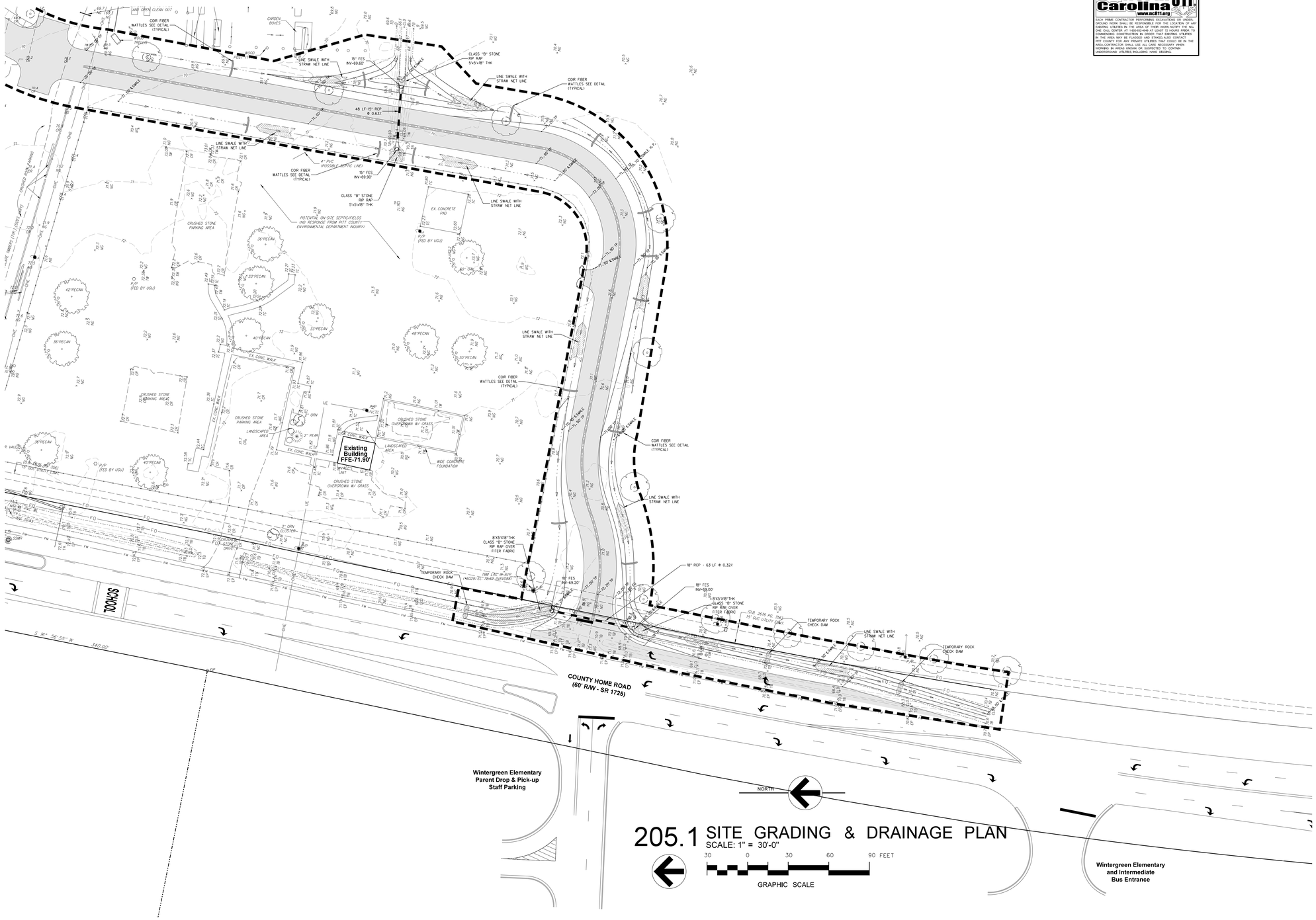
Existing Building FFE-71.90'
COUNTY HOME ROAD (60' R/W - SR 1725)
TOOHIG
S 16° 56' 55" W 340.00'
Wintergreen Elementary Parent Drop & Pick-up Staff Parking
Wintergreen Elementary and Intermediate Bus Entrance
NORTH
CLASS "B" STONE RIP RAP 5'x5'x18" THK
15" FES INV=69.60'
15" FES INV=69.90'
48 LF-15" RCP @ 0.63%
4" PVC (POSSIBLE SEPTIC LINE)
POTENTIAL ON-SITE SEPTIC/FIELDS (NO RESPONSE FROM PITT COUNTY ENVIRONMENTAL DEPARTMENT INQUIRY)
8'X5'X18"THK CLASS "B" STONE RIP RAP OVER FITER FABRIC
18" RCP - 63' LF @ 0.32%
18" FES INV=69.00'
TEMPORARY ROCK CHECK DAM
LINE SWALE WITH STRAW NET LINE
COR FIBER WATTLES SEE DETAIL (TYPICAL)
EX. CONCRETE PAD
CRUSHED STONE PARKING AREA
LANDSCAPED AREA
CRUSHED STONE OVERGROWN W/ GRASS
WIDE CONCRETE FOUNDATION
EX. CONC. WALK
EX. ORN CLOTH
P.P. (TED BY UGI)
U/G (TED BY UGI)
42"PECAN
36"PECAN
33"PECAN
40"PECAN
48"PECAN
30"PECAN
EX. OAK
GARDEN BOXES
ADD GREEN CLEAN OUT
ROCK CHECK DAM
WOOD
EX. CONC. WALK
EX. CONC. RAMP
EX. CONC. WALK
EX. CONC. WALK
EX. CONC. WALK

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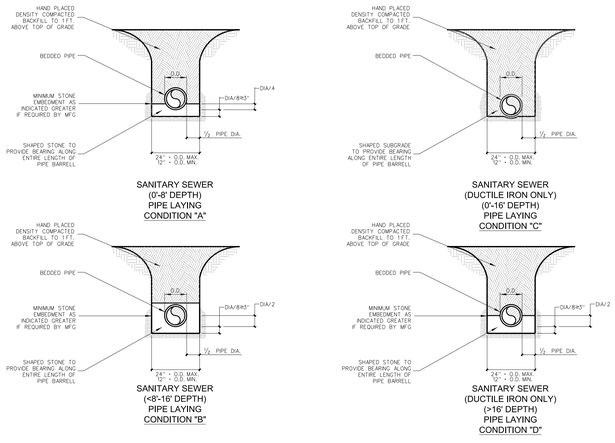


SEWER PIPE LAYING CONDITIONS

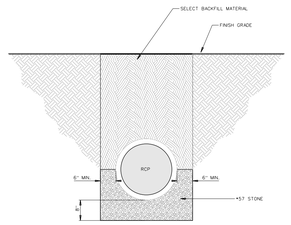
NOT TO SCALE

D.I. SEWER PIPE LAYING CONDITIONS

NOT TO SCALE

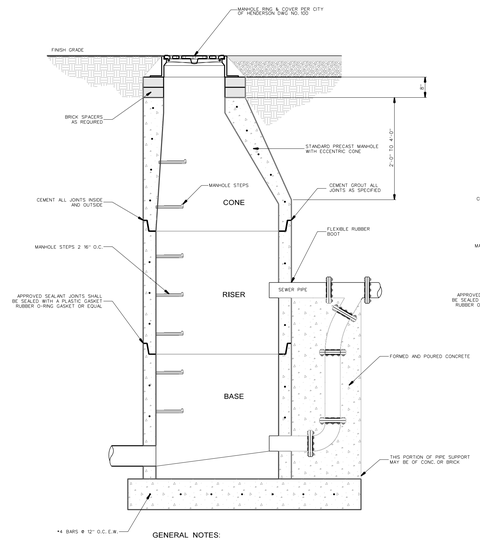
301.8 PIPE LAYING CONDITIONS

SCALE: NONE



301.7 STORM PIPE LAYING CONDITIONS

SCALE: NONE



GENERAL NOTES:

CONCRETE SHALL BE 4000 PSI MINIMUM

REINFORCING STEEL ASTM A-615 GRADE 60

STRUCTURES SHALL MEET NCDOT APPROVAL TO 10'IN DEPTH

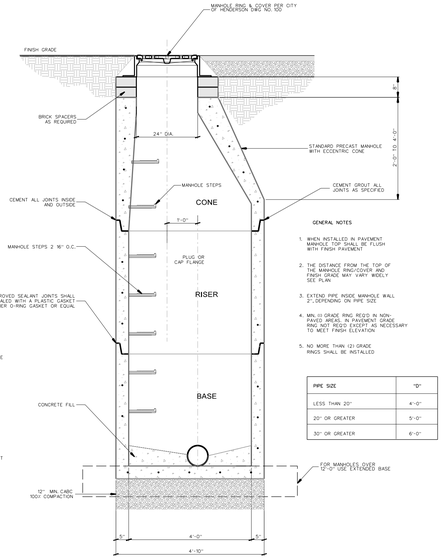
ALL SOLID BOXES SHALL MEET H-20 LOADING TO A DEPTH OF 15'-0".

PRECAST BOXES SHALL MEET ALL NCDOT STANDARDS

ANY MODIFICATION TO ANY PRECAST BOX MAY NULLIFY H-20 LOADING ABILITY.

ALL JOINTS TO BE SEALED WITH BUTYL RUBBER JOINT SEALANT CONFORMING TO THE REQUIREMENTS OF ASTM C990, OR MORTAR AS PER NCDOT REQUIREMENTS.

SHALL BE REQUIRED ON BOXES OVER 3'-6" IN DEPTH. STEPS SHALL BE COPOLYMER POLYPROPOLENE PLASTIC AND SHALL MEET THE THE REQUIREMENTS OD ASTM C478



GENERAL NOTES

1. WHEN INSTALLED IN PAVEMENT MANHOLE TOP SHALL BE FLUSH WITH FINISH PAVEMENT
2. THE DISTANCE FROM THE TOP OF THE MANHOLE RING/COVER AND FINISH GRADE MAY VARY WIDELY SEE PLAN.
3. EXTEND PIPE INSIDE MANHOLE WALL 2", DEPENDING ON PIPE SIZE
4. MIN (1) GRADE RING REQ'D IN NON-PAVED AREAS. MAX (3) GRADE RING. NOT NEED EXCEPT AS NECESSARY TO MEET FINISH ELEVATION.
5. NO MORE THAN (2) GRADE RINGS SHALL BE INSTALLED

PIPE SIZE	"D"
LESS THAN 20"	4'-0"
20" OR GREATER	5'-0"
30" OR GREATER	6'-0"

NOTES:

ALL UNITS SHALL BE CONSTRUCTED IN ACCORDANCE WITH AND REINFORCED EQUAL TO OR EXCEED AASHO SPECS. M199-731 (ASTM C478) "PRECAST REINFORCED CONCRETE M.H. SECTIONS"

CONCRETE SHALL BE 4000 PSI MIN.

MANHOLE STEPS TO BE M.A INDUSTRIES MODEL PS-1 STEEL REINF. PLASTIC OR EQUAL

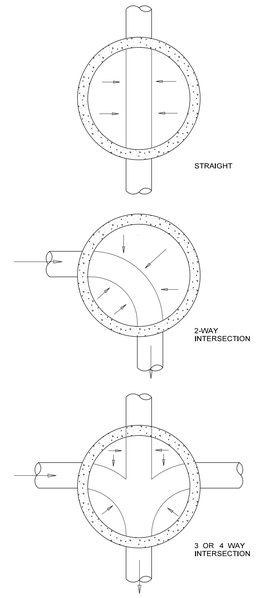
ALL UNITS SHALL BE POURED MONOLITHICLY AND STEAM CURED.

PIPE OPENINGS SIZE AND LOCATION SHALL SUIT SPECIFIC MANHOLE USE

MH FRAME SHALL BE GROUTED TO BASE OF MH FOR A TIGHT WATERPROOF SEAL IN THE EVENT RAISING IS NEEDED. SOLID MASONRY BRICK SHALL BE USED

NOTE

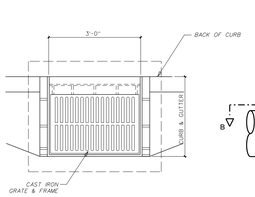
INVERTS TO BE SHAPED ACCURATELY TO A SMOOTH SEMI-CIRCLE FINISH CONFORMING TO THE INSIDE CONTOUR OF THE ADJACENT SEWER SECTIONS. ALL ENTERING BRANCHES AND CHANGES IN DIRECTIONS SHALL BE FORMED BY CIRCULAR CURVE IN THE INVERT OF AS LARGE A RADIUS AS THE SIZE OF MANHOLE WILL PERMIT. CHANGES OF SIZE AND GRADE OF CHANNELS SHALL BE MADE GRADUALLY AND EVENLY. THE INVERT CHANNELS SHALL BE FORMED DIRECTLY IN THE CONCRETE OF THE MANHOLE BASE, OR SHALL BE BUILT UP WITH BRICK AND MORTAR. THE FLOOR OF THE MANHOLE OUTSIDE THE CHANNELS SHALL BE SMOOTH AND SHALL SLOPE TOWARD THE CHANNELS NOT LESS THAN 1" PER FOOT NOR MORE THAN 2" PER FOOT.



MANHOLE INVERTS

301.6 TYPICAL PRE-CAST MANHOLE

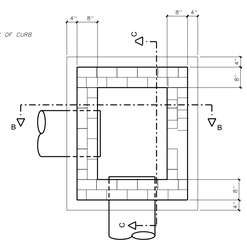
SCALE: 1/2" = 1'-0"



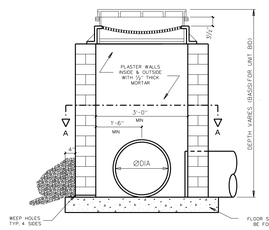
PLAN

NOTES:

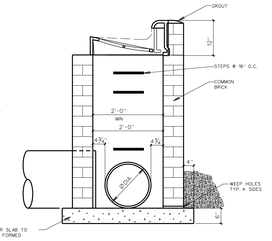
- MORTAR JOINTS 1/2"•1/8" THICK.
- CLASS "A" CONCRETE TO BE USED.
- USE CATCH BASIN FRAME & GRATE TYPE CH-BN-2000 (DEWEY BROS.) OR APPROVED EQUAL



SECTION "A-A"



SECTION "C-C"



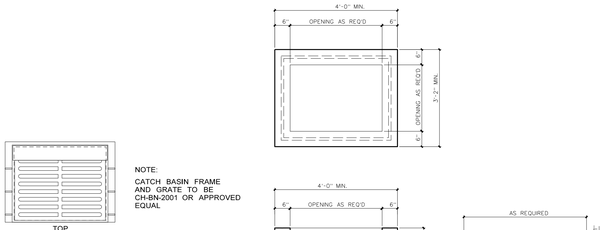
SECTION "B-B"

301.5 MASONRY CATCH BASIN DETAIL

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

301.4 RCP CONNECTION @ BASIN

SCALE: NONE



301.1 PRECAST STORM DRAINAGE STRUCTURE DETAIL

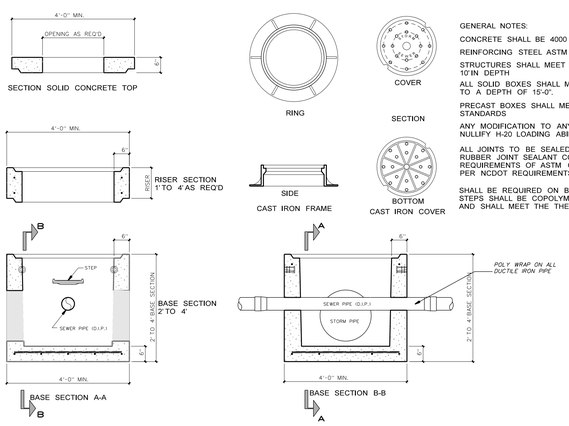
SCALE: 1/2" = 1'-0"

NOTE: DIMENSIONS VARY FOR PIPE LARGER THAN 24"

DIMENSION VARY FOR PIPE LARGER THAN 24"

301.3 MASONRY DROP INLET DETAIL

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



301.2 CONFLICT/JUNCTION BOX DETAIL

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

NOTE:

CONFLICT BOX SHALL ONLY BE UTILIZED WHERE SEWER DEPTHS ARE SHALLOW AND CONFLICT WITH STORM DRAINAGE CANNOT BE AVOIDED WITHOUT PUMPING. CONTRACTOR SHALL OBTAIN PRIOR APPROVAL FROM THE LOCAL AUTHORITY HAVING JURISDICTION PRIOR TO CONSTRUCTION OF BOX.

No.	Date	Revision

Hite associates
ARCHITECTURE / PLANNING / TECHNOLOGY
2600 Meridian Drive / Greenville, NC 27834 / tel (252) 757-0333

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HITE ASSOCIATES, P.C. CORPORATE SEAL NUMBER C-1518 — GREENVILLE, NORTH CAROLINA

REGISTERED LANDSCAPE ARCHITECT SEAL 4418 — STATE OF NORTH CAROLINA

COMMUNITY CENTER AND GYMNASIUM FOR

Alice F. Keene District Park

4561 County Home Road, Greenville, NC 27858

Project No. 22207

Date: December 1, 2022

Drawing no. C 301

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CONSTRUCTION SCHEDULE

PHASE I

1. OBTAIN PLAN APPROVALS AND ALL APPLICABLE PERMITS.
2. FLAG LIMITS OF ROUGH GRADING.
3. HOLD PRECONSTRUCTION MEETING WITH GRADING CONTRACTOR, EROSION CONTROL ADMINISTRATOR, PROJECT ENGINEER AND OWNER BEFORE WORK BEGINS.
4. INSTALL THE PERIMETER SEDIMENT FENCES AS THE FIRST CONSTRUCTION ACTIVITY.
5. INSTALL TEMPORARY GRAVEL CONSTRUCTION ENTRANCE.
6. INSTALL CONCRETE WASHOUT PIT WITH SIGN.
7. INSTALL TEMPORARY SEDIMENT BASIN AND DIVERSION SWALES PER PLAN.
8. BEGIN CLEARING AND GRUBBING SITE IN DESIGNATED AREAS AND STOCKPILE IN DESIGNATED AREA.

PHASE II

9. INSTALL STORM DRAINAGE PIPING AND END OF DAY MEASURES.
10. INSTALL HARDWARE CLOTH AND INLET PROTECTION AROUND ALL DROP INLETS.
11. BEGIN IMPORTING FILL FOR THE CONSTRUCTION OF THE BUILDING PAD AND DRIVE AREAS.
12. FINAL GRADE THE BUILDING PAD, FINE GRADE AND POUR SIDEWALK AND LAY DOWN GRAVEL.
13. INSTALL CATCH BASIN FRAMES AND GRATES. REPLACE ROCK INLET PROTECTION WITH SEDIMENT BAGS.
14. PROVIDE A GROUND COVER (TEMPORARY OR PERMANENT) ON EXPOSED SLOPES 14 CALENDAR DAYS FOLLOWING COMPLETION OF ANY PHASE OF GRADING FOR SLOPES 3:1 OR FLATTER INCLUDING ALL OTHER SLOPES 4:1 OR FLATTER, PROVIDE A GROUND COVER (TEMPORARY OR PERMANENT) ON EXPOSED SLOPES WITHIN 7 CALENDAR DAYS FOLLOWING COMPLETION OF ANY PHASE OF GRADING FOR SLOPES 3:1 OR STEEPER.
15. CONSTRUCT PERMANENT SCM
16. ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES MAY BE REQUIRED BY THE STATE, OWNER OR CITY ENGINEER IF DEEMED NECESSARY.
17. AFTER SITE IS STABILIZED, REMOVE ALL TEMPORARY MEASURES, FINE GRADE DISTURBED AREAS AND INSTALL PERMANENT VEGETATION ON THE DISTURBED AREAS.
18. MAINTAIN PERMANENT VEGETATION BY TOP DRESSING WITH 700 LBS PER ACRE OF FERTILIZER EVERY 6 MONTHS UNTIL THE COMPLETION OF THE PROJECT.
19. WITHIN 6" OF FINAL GRADE, RE-DISTRIBUTE 6" OF TOP SOIL
20. FINE GRADE, PERMANENTLY SEED AND MULCH ALL LANDSCAPED AREAS.
21. REMOVE ALL REMAINING TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES UPON COMPLETION AND STABILIZATION OF PROJECT.

MAINTENANCE PLAN

1. ALL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUN-OFF PRODUCING RAINFALL BUT IN NO CASE LESS THAN ONCE EVERY WEEK ANY NEEDED REPAIRS WILL BE MADE IMMEDIATELY TO MAINTAIN ALL PRACTICES AS DESIGNED.
2. SEDIMENT WILL BE REMOVED FROM BEHIND THE SILT FENCE WHEN IT BECOMES 0.5 FEET DEEP.
3. SEDIMENT WILL BE REMOVED FROM THE SEDIMENT TRAP WHEN THE STORAGE HAS BEEN APPROXIMATELY 50% FILLED. GRAVEL WILL BE CLEANED AND REPLACED WHEN THE SEDIMENT POOL NO LONGER DRAINS PROPERLY.
4. ALL SEEDED AREAS WILL BE FERTILIZED, RE-SEEDED AS NECESSARY, AND MULCHED ACCORDING TO SPECIFICATIONS IN THE VEGETATIVE PLAN TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER.

PLANNED EROSION AND SEDIMENT CONTROL DEVICES

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE

PRACTICE 6.06

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE IS TO BE USED AT STREET CONNECTION. DIMENSIONS ARE TO BE AS INDICATED ON PLANS. THE CONTRACTOR HAS THE PREROGATIVE TO IDENTIFY A SINGLE ENTRANCE AND TREAT SAID ENTRANCE WITH THIS PROTECTIVE MEASURE. IF, HOWEVER BOTH ENTRANCES ARE USED DURING CONSTRUCTION, CONTRACTOR SHALL PROTECT BOTH WITH TEMPORARY GRAVEL.

TEMPORARY STONE DROP INLET PROTECTION

PRACTICE 6.51

SEDIMENT FENCE IS TO BE USED AROUND ALL YARD INLETS AND CATCH BASINS UNTIL SUCH TIME SITE IS STABILIZED WITH VEGETATIVE COVER OR PARKING AREA SUBGRADE IS COVERED WITH CABC.

TEMPORARY SEDIMENT FENCE

PRACTICE 6.62

STONE INLET PROTECTION IS TO BE USED AS NEEDED TO PROTECT AREAS AS SHOWN SILT FENCE IS TO BE PLACED AS SHOWN ON PLANS AND ANY OTHER AREAS SUBJECT TO DISCHARGING SEDIMENT DIRECTLY INTO CANALS AND DITCHES.

CITY ENGINEER RESERVES THE RIGHT TO REQUIRE ADDITIONAL EROSION CONTROL MEASURES SHOULD THE PLAN OR ITS IMPLEMENTATION PROVE TO BE INADEQUATE. SEED OR OTHERWISE PROVIDE GROUND COVER DEVICES.

VEGETATION PLAN

A. PERMANENT SEEDING AFTER APRIL 15 AND BEFORE SEPTEMBER 15.

SEEDING MIXTURE	RATE (LB/ACRE)
FALCON FESCUE	250

B. PERMANENT SEEDING AFTER SEPTEMBER 15 AN BEFORE APRIL 15.

SEEDING MIXTURE	RATE (LB/ACRE)
FLACON FESCUE GRAIN	250
ANNUAL RYE (SEPTEMBER 15 THRU APRIL 15)	50

SEEDING DATES

BEST	POSSIBLE
EARLY SPRING: FEB. 15 - MAR. 20	FEB. 15 - APRIL 30
FALL: SEPT. 1 - SEPT. 30	SEPT. 1 - OCT. 31

C. TEMPORARY SEEDING DURING WINTER MONTHS (SEPT. 15 - APRIL 15)

SEEDING MIXTURE	RATE (LB/ACRE)
RYE (GRAIN)	120
ANNUAL LESPENDEZA (KOBE)	50

OMIT ANNUAL LESPENDEZA WHEN DURATION OF TEMPORARY COVER IS NOT EXTEND BEYOND JUNE.

SEEDING MIXTURE	RATE (LB/ACRE)
GERMAN MILLET	40

COASTAL PLAIN - DEC. 1 - APRIL 15

D. TEMPORARY SEEDING AFTER SEPTEMBER 15 AN BEFORE APRIL 15.

SEEDING MIXTURE	RATE (LB/ACRE)
GERMAN MILLET	40

SEEDING DATES

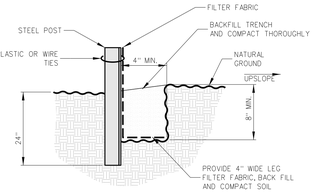
APRIL 15 - AUGUST 15

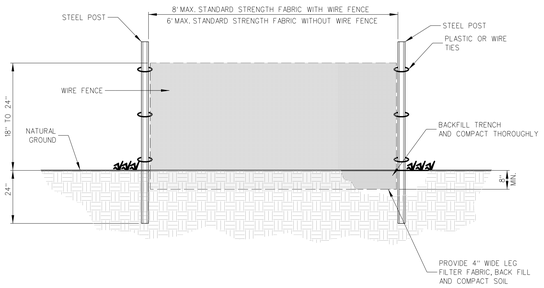
SEED BED PREPARATION AND MULCHING SCHEULE

COMPLETE GRADING BEFORE PREPARING SEEDBEDS, AND INSTALL ALL NECESSARY EROSION CONTROL PRACTICES SUCH AS SWALES AND BASINS. MINIMIZE STEEP SLOPES. IF SOILS HAVE BECOME COMPACTED DURING GRADING, LOOSEN THEM TO A DEPTH OF 6-8 INCHES USING A RIPPER, HARROW, OR CHISEL PLOW. IF RAINFALL CAUSES THE SURFACE TO BECOME SEALED OR CRUSTED, LOOSEN IT JUST PRIOR TO SEEDING BY DISKING, RAKING, HARROWING, OR OTHER SUITABLE METHODS. GROOVE OR FURROW SLOPES STEEPER THAN 3:1 ON THE CONTOUR BEFORE SEEDING.

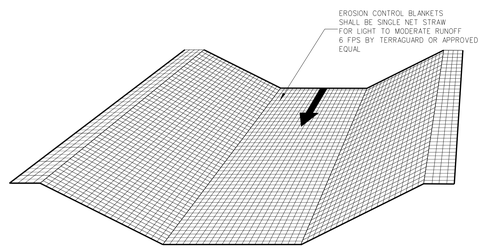
THE KINDS OF SEED AND FERTILIZER, AND THE RATES OF APPLICATION OF SEED, FERTILIZER, AND LIMESTONE, SHALL BE AS STATED BELOW. DURING PERIODS OF OVERLAPPING DATES, THE KIND OF SEED TO BE USED SHALL BE DETERMINED BY THE ENGINEER.

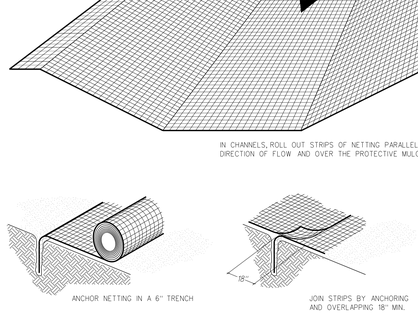
LIME	2 TONS/AC
10-10-20	1000 LBS/AC
0-20-0	500 LBS/AC
STRAW MULCH	2 TON/AC (AFTER SEEDING)
ASPHALT TACK	400 GAL/TON OF MULCH



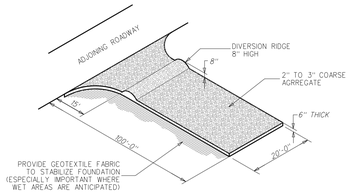


302.9 TEMPORARY SILT FENCE
SCALE: NONE





302.6 TEMPORARY NET LINER DETAIL
SCALE: NONE



CONSTRUCTION ENTRANCE NOTES:

1. 2" TO 3" COARSE AGGREGATE STONE SHALL BE USED. PAD TO BE 100'x20'x6" AT A MINIMUM
2. TURNING RADIUS SUFFICIENT TO ACCOMMODATE LARGE TRUCKS IS TO BE PROVIDED.
3. ENTRANCES SHOULD BE LOCATED TO PROVIDE FOR MAXIMUM UTILITY BY ALL CONSTRUCTION VEHICLES.
4. MUST BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR DIRECT FLOW OF MUD ONTO STREET. PERIODIC TOP DRESSING WITH STONE WILL BE NECESSARY; KEEP SOME HANDY.
5. ANY MATERIAL WHICH STILL MAKES IT ONTO THE ROAD MUST BE CLEANED UP IMMEDIATELY.
6. APPLICABLE AT ALL POINTS OF INGRESS AND EGRESS UNTIL SITE IS STABILIZED. FREQUENT CHECKS OF THE DEVICE AND TIMELY MAINTENANCE MUST BE PROVIDED.
7. PURPOSE: TO PROVIDE A BUFFER AREA WHERE VEHICLES CAN DROP THEIR MUD AND SEDIMENT TO AVOID TRANSPORTING IT ONTO PUBLIC ROADS, TO CONTROL EROSION FROM SURFACE RUNOFF, AND HELP CONTROL DUST.
8. AVOID CURVES IN PUBLIC ROADS AND STEEP SLOPES. REMOVE ALL VEGETATION AND OTHER OBJECTABLE MATERIAL FROM THE FOUNDATION AREA. GRADE AND CROWN FOUNDATION FOR POSITIVE DRAINAGE.
9. IF THE SLOPE TOWARD THE ROAD EXCEEDS 2%, CONSTRUCT A RIDGE 6" TO 8" HIGH WITH 3:1 SIDE SLOPES ACCROSS THE FOUNDATION WIDTH APPROXIMATELY 15'-0" FROM THE ENTRANCE TO DIVERT RUNOFF AWAY FROM PUBLIC ROAD
10. PLACE GEOTEXTILE FABRIC ON GRADED FOUNDATION TO IMPROVE STABILITY, ESPECIALLY IN WET CONDITIONS THAT ARE ANTICIPATED.
11. PLACE STONE TO DIMENSIONS AND GRADE AS SHOWN ON PLANS. LEAVE SURFACE SMOOTH AND SLOPED FOR DRAINAGE.
12. DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE STONE PAD TO A SEIMENT TRAP OR BASIN.
13. INSTALL PIPE UNDER PAD IF NEEDED TO MAINTAIN PROPER PUBLIC ROAD DRAINAGE.

302.3 TEMPORARY GRAVEL CONSTRUCTION ENTRANCE
SCALE: NONE

NOTES:

1 INSTALL SILT FENCE PER STD. SILT FENCE DETAIL

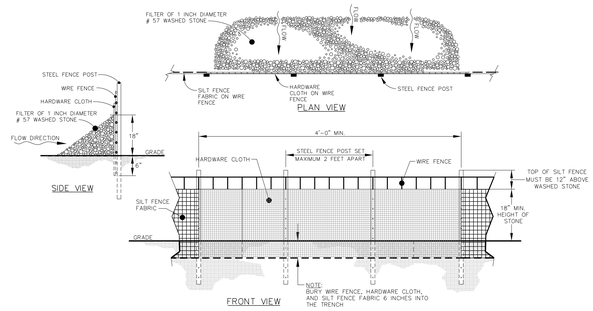
2 LOCATE REINFORCED OUTLET AT LOW POINTS OF SILT FENCE BARRIER.

3 PLACE RIP RAP WITH CARE. DO NOT TEAR SILT FENCE FABRIC.

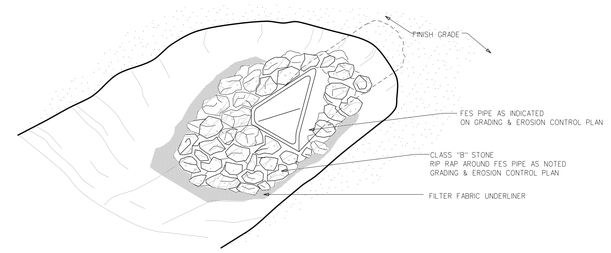
MAINTENANCE NOTES:

1 REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE/OUTLET. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT. REMOVE & REPLACE STONE AS NECESSARY AS IT BECOMES CLOGGED WITH SEDIMENT.

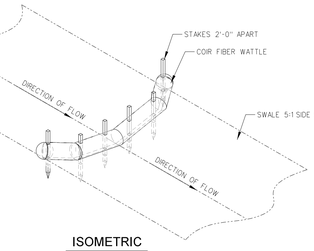
2. REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

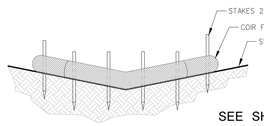


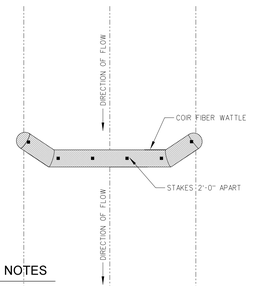
302.8 TEMP. SILT FENCE OUTLET
SCALE: NONE



302.5 TYPICAL RIP RAP DETAIL
SCALE: NONE

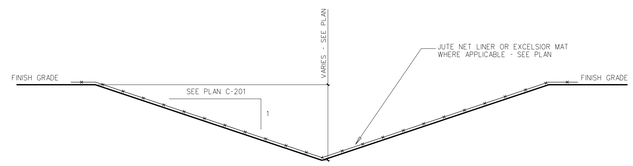




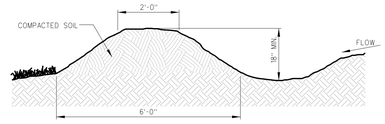


SEE SHEET C-308 FOR NOTES

302.10 COIR WATTLE DETAIL
SCALE: NONE

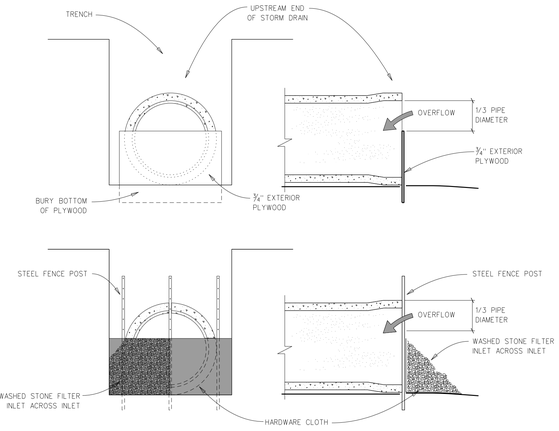


302.7 DITCH/ SWALE CROSS-SECTION
SCALE: NONE



302.4 TEMPORARY EARTHEN DIVERSION
SCALE: NONE

SCALE: NONE



PLYWOOD INLET PROTECTION AND STONE FILTER PROTECTION

302.2 END-OF-DAY INLET PROTECTION DETAIL
SCALE: NONE

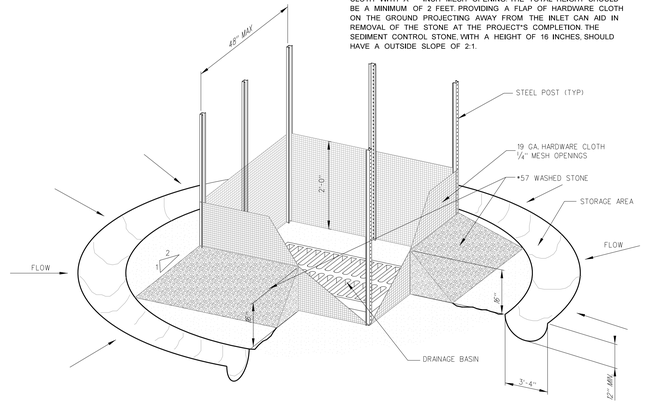
CONSTRUCTION NOTES:

UNIFORMLY GRADE A SHALLOW DEPRESSION APPROACHING THE INLET.

DRIVE 5-FOOT STEEL POSTS 2 FEET INTO THE GROUND SURROUNDING THE INLET. SPACE POSTS EVENLY AROUND THE PERIMETER OF THE INLET, A MAXIMUM OF 4 FEET APART.

SURROUND THE POSTS WITH WIRE MESH HARDWARE CLOTH. SECURE THE WIRE MESH TO THE STEEL POSTS AT THE TOP, MIDDLE, AND BOTTOM. PLACING A 2-FOOT FLAP OF THE WIRE MESH UNDER THE GRAVEL FOR ANCHORING IS RECOMMENDED.

4. PLACE CLEAN GRAVEL (NC DOT #5 OR #57 STONE) ON A 2:1 SLOPE WITH A HEIGHT OF 16 INCHES AROUND THE WIRE, AND SMOOTH TO AN EVEN GRADE.
5. ONCE THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE ACCUMULATED SEDIMENT, AND ESTABLISH FINAL GRADING ELEVATIONS.
6. COMPACT THE AREA PROPERLY AND STABILIZED IT WITH GROUNDCOVER.
7. THE WIRE MESH SHOULD BE AT LEAST A 19-GAUGE HARDWARE CLOTH WITH A INCH MESH OPENING. THE TOTAL HEIGHT SHOULD BE A MINIMUM OF 2 FEET. PROVIDING A FLAP OF HARDWARE CLOTH ON THE GROUND PROJECTING AWAY FROM THE INLET CAN AID IN REMOVAL OF THE STONE AT THE PROJECT'S COMPLETION. THE SEDIMENT CONTROL STONE, WITH A HEIGHT OF 16 INCHES, SHOULD HAVE A OUTSIDE SLOPE OF 2:1.



302.1 HARDWARE CLOTH & GRAVEL INLET PROTECTION
SCALE: NONE

NOTE: REFER TO SHEET C-307 / C-308 FOR DETAILED CONSTRUCTION AND MAINTENANCE NOTES

No.	Date	Revision

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COMMUNITY CENTER AND GYMNASIUM FOR
Alice F. Keene District Park
4561 County Home Road, Greenville, NC 27858

CIVIL ENGINEERING CONSULTANT:
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HITE & ASSOCIATES, P.C. ARCHITECTURAL CORPORATION NUMBER C-4118 REGISTERED GREENVILLE, NC

CAROLINA PROFESSIONAL ENGINEER SEAL 039715 J. STEPHEN JANOWSKI

Project No.	22207
Date	December 1, 2022
Drawing no.	C 302

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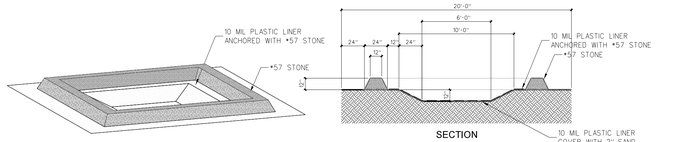
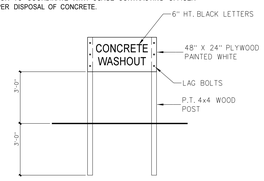
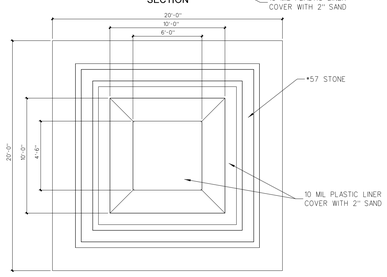


NOTES:

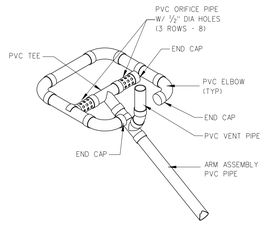
1. ACTUAL LAYOUT TO BE DETERMINED IN FIELD.
2. THE "CONCRETE WASHOUT SIGN" SHALL BE INSTALLED WITHIN 30 FEET OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
3. PIT CAPACITY IS MINIMUM OF 6 CF PER 10 CY OF CONCRETE
4. CONTRACTOR TO COORDINATE WITH USAGE CONTRACTING OFFICER FOR PROPER DISPOSAL OF CONCRETE.



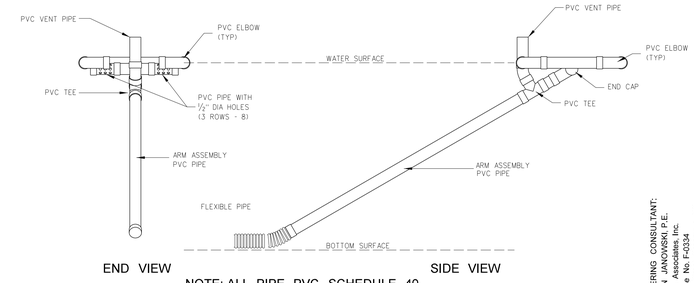


PLAN

303.5 CONCRETE WASHOUT PIT
SCALE: NONE



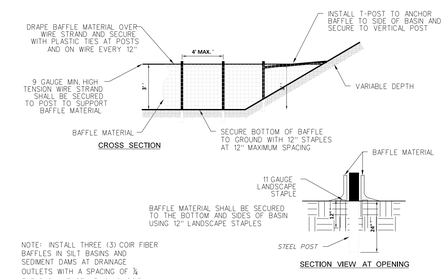
ISOMETRIC VIEW



END VIEW SIDE VIEW

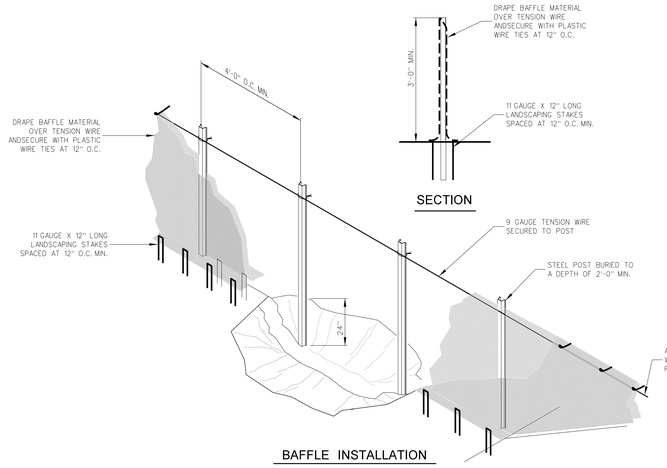
NOTE: ALL PIPE PVC SCHEDULE 40

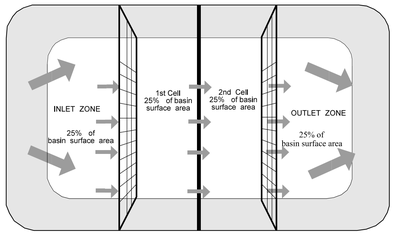
303.3 SKIMMER DEWATERING DEVICE
SCALE: NONE



NOTE: INSTALL THREE (3) COIR FIBER BAFFLES IN SILT BASINS AND SEDIMENT DAMS AT DRAINAGE OUTLETS WITH A SPACING OF ¼ THE BASIN LENGTH. TWO (2) COIR FIBER BAFFLES CAN BE INSTALLED IN SILT BASINS AND DAMS LESS THAN 20 FT. IN LENGTH WITH A SPACING OF ½ THE BASIN LENGTH.

COIR FIBER BAFFLE
NOT TO SCALE



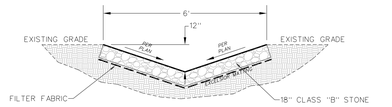


PLAN VIEW

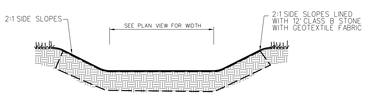
NOTES:

1. BAFFLE MATERIAL SHOULD BE SECURED AT THE BOTTOM AND SIDES USING STAPLES OR BY TRENCHING AS FOR SILT FENCE.
2. MOST OF THE SEDIMENT WILL ACCUMULATE IN THE 1ST BAY, WHICH SHOULD BE READILY ACCESSIBLE FOR MAINTENANCE.
3. PROVIDE 3 BAFFLES (USE TWO IF LESS THAN 20 FEET IN LENGTH), PROVIDE 5 BAFFLES FOR DRAINAGE AREAS GREATER THAN 10 ACRES.
4. BAFFLE SHALL BE 700 G/M2 COIR EROSION BLANKET.
5. TOPS OF BAFFLES SHOULD BE 2 INCHES LOWER THAN THE TOP OF THE BERMS
6. INSPECT BAFFLES FOR REPAIR ONCE A WEEK AND AFTER EACH RAINFALL

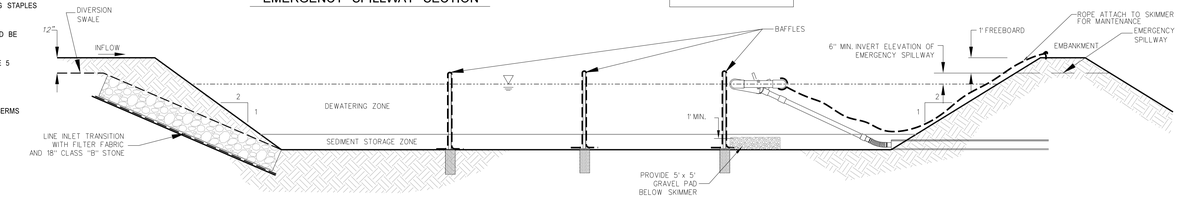
303.2 SEDIMENT BASIN BAFFLE INSTALLATION
SCALE: NONE

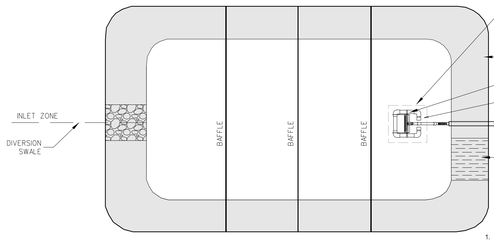


DIVERSION SWALE SECTION



EMERGENCY SPILLWAY SECTION





AVERAGE WIDTH "W" = AREA* / L

* AREA OF BASIN WATER SURFACE AT TOP OF PRINCIPLE SPILLWAY ELEVATION

PLAN VIEW (NTS)

NOTES:

1. DEWATERING-ALLOW THE MAXIMUM REASONABLE DETENTION PERIOD BEFORE THE BASIN IS COMPLETELY DEWATERED (AT LEAST 48 HOURS)
2. INFLOW RATE-REDUCE THE INFLOW VELOCITY AND DIVERT ALL SEDIMENT-FREE RUNOFF

303.1 SECTION @ TEMPORARY SKIMMER BASIN
SCALE: NONE

No.	Date	Revision

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COMMUNITY CENTER AND GYMNASIUM FOR
Alice F. Keene District Park
4561 County Home Road, Greenville, NC 27858

Project No. 22207
Date: December 1, 2022
Drawing no. C 303

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STORMWATER WETLAND PLANTING SPECIFICATION

1. All herbaceous plants within the wetland proper (shallow water and shallow land zones) shall be installed between March 15 and July 31.
2. Unless otherwise designated, plants should be installed as large drifts (i.e., masses of a single species) within their respective planting areas.
3. Install a slow release fertilizer tablet next to each plant within the wetland proper. For herbaceous species use Ag Safe Aquatic-Tabs 20-10-5, 90 day continuous feeding, 5 grams, or equivalent. For trees and shrubs use Agrifrom 20-10-5 Plus Minors Planting Tablets, 2 year slow release or equivalent.
4. All plants shall be directly descended from individuals growing wild within 200 miles of the project site. If suitable stock cannot be obtained, plants of other genetic provenances may be utilized with the approval of the Owner or Owner's Representative.
5. Plant material should conform to American Standard Nursery Stock, published by the American Association of Nurserymen.
6. All plant material to be container grown plants of at least 4.5 cubic inches capacity.
7. Recommended plants for permanent shallow water (0" to 6" deep). 20% of total number of plants should be of each species and planted in a natural flowing arrangement.

   a.Acorus calamus (Sweet Flag)
   b.Cladium jamaicense (Sawgrass)
   c.Peltandra virginica (Arrow Arum)
   d.Sagittaria latifolia (Duck Potato)
   e.Schoenoplectus tabernaemontani (Softstem Bulrush)

POND SURFACE AREA 16,685 S.F.

AQUATIC SHELF SURFACE AREA (S.F) 6,500 S.F.

TOTAL NUMBER OF PLANTS SPACED AT 24" O.C. = 1,625

ADD (1) ONE TREE FOR EVERY 30000 SQUARE FEET OF HIGH MARSH SURFACE AREA. FINAL TREE PLACEMENT SHOWN ON PLANS. CARPINUS CAROLINIANA (MUSCELEWOOD), BETULA NIGRA (RIVER BIRCH), NYSSQA BIFLORA (SWAMP BALCKGUM) ARE THE SUITABLE TREES TO USE.
Total trees =

CONSTRUCTED WETLAND CONSTRUCTION SCHEDULE:

1. Clear and grub wetland area.
2. Excavate constructed wetlands area to rough elevation stockpile soil in proposed berm area.
3. Install erosion control measures to stabilize pond area.
4. Install outlet structure.
5. When site has been stabilized with temporary seeding, cabc and curb and gutter, clean sediment out of wetlands basin and prepare basin for planting. call pitt county public utility department stormwater department.
6. Install wetlands vegetation per specifications wetlands.
7. Permanent seed banks and slopes of berm and area.

MAINTENANCE PLAN

FREQUENCY - INSPECTION ACTIVITIES

AFTER CONSTRUCTION
- INSPECT AFTER SEVERAL STORM EVENTS FOR BANK STABILITY, VEGETATION GROWTH, DRAINAGE SYSTEM FUNCTIONING, AND STRUCTURAL DAMAGE.

SEMI-ANNUAL INSPECTION
- INSPECT FOR INVASIVE VEGETATION, DIFFERENTIAL SETTLEMENT, CRACKING; EROSION, LEAKAGE, OR TREE GROWTH ON THE EMBANKMENT; THE CONDITION OF THE RIPRAP IN THE INLET, OUTLET, AND PILOT CHANNELS; SEDIMENT ACCUMULATION IN THE BASIN; CLOGGING OF OUTLET; AND THE VIGOR AND DENSITY OF THE VEGETATION ON THE BASIN SIDE SLOPES AND FLOOR. CORRECT OBSERVED PROBLEMS AS NECESSARY.
- INSPECT FOR DAMAGE TO THE EMBANKMENT AND INLET/OUTLET STRUCTURES. REPAIR AS NECESSARY.
-NOTE SIGNS OF HYDROCARBON BUILDUP SUCH AS FLOATING OIL ON WATER SURFACE.
-MONITOR FOR SEDIMENT ACCUMULATION IN THE FACILITY AND FOREBAY.
-EXAMINE INLET AND OUTLET DEVICES TO ENSURE THEY ARE FREE OF DEBRIS AND ARE OPERATIONAL.

FREQUENCY - MAINTENANCE ACTIVITIES
ONE-TIME

-REPLACE WETLAND VEGETATION TO MAINTAIN AT LEAST 50% OF SURFACE AREA COVERAGE IN WETLAND PLANTS AFTER THE SECOND GROWING SEASON.

AS NEEDED MAINTENANCE

-REPAIR UNDERCUT AREAS, EROSION TO BANKS, AND BOTTOM AS REQUIRED. WHERE PERMITTED BY THE DEPARTMENT OF FISH AND GAME OR OTHER AGENCY REGULATIONS, STOCK CONSTRUCTED WETLANDS REGULARLY WITH MOSQUITO FISH (GAMBUSIA SPP.) TO ENHANCE NATURAL MOSQUITO AND MIDGE CONTROL.

FREQUENT (3 TO 4 TIMES PER YEAR)
-CLEAN AND REMOVE DEBRIS FROM INLET AND OUTLET STRUCTURES.
-MOW SIDE SLOPES AND REMOVE GRASS CLIPPINGS. REMOVE LITTER AND DEBRIS FROM BANKS, BASIN BOTTOM, TRASH RACKS, OUTLET STRUCTURES, AND VALVES AS REQUIRED.

ANNUAL MAINTENANCE (IF NEEDED)
-SUPPLEMENT WETLAND PLANTS IF A SIGNIFICANT PORTION HAVE NOT ESTABLISHED (AT LEAST 50 % OF THE SURFACE AREA).
-REMOVE NUISANCE PLANT SPECIES.
-CLEAN FOREBAY TO AVOID ACCUMULATION IN MAIN WETLAND AREA TO MINIMIZE WHEN THE MAIN WETLAND AREA NEEDS TO BE CLEANED.
-HARVEST PLANT SPECIES IF VEGETATION BECOMES TOO THICK CAUSING FLOW BACKUP AND FLOODING. MORE FREQUENT PLANT HARVESTING MAY BE REQUIRED BY LOCAL VECTOR CONTROL AGENCIES.
-MONITOR SEDIMENT ACCUMULATIONS, AND REMOVE SEDIMENT WHEN THE ACCUMULATED SEDIMENT VOLUME EXCEEDS 10-20 % OF THE BASIN VOLUME, PLANTS ARE "CHOKED" WITH SEDIMENT, OR THE WETLAND BECOMES EUTROPHIC. IT IS SUGGESTED THAT THE MAIN AREA BE CLEANED ONE HALF AT A TIME WITH AT LEAST ONE GROWING SEASON IN BETWEEN CLEANINGS. THIS WILL HELP TO PRESERVE THE VEGETATION AND ENABLE THE WETLAND TO RECOVER MORE QUICKLY FROM THE CLEANING.
-FERTILIZE NEW VEGETATION ONE TIME ONLY. THE OWNER SHALL NOT FERTILIZE VEGETATION AFTER THE INITIAL OCCURRENCE.

SEEDING AND MULCHING SCHEDULE PER ACRE
THE KINDS OF SEED AND FERTILIZER, AND THE RATES OF APPLICATION OF SEED, FERTILIZER, AND LIMESTONE, SHALL BE AS STATED BELOW. DURING PERIODS OF OVERLAPPING DATES, THE KIND OF SEED TO BE USED SHALL BE DETERMINED BY THE ENGINEER.

LIME	2 Tons per Acre
10-10-20	1,000 LB per Acre
0-20-0	500 Lb per Acre
STRAW MULCH	2 TONS/AC (AFTER SEEDING)
ASPHALT TACK	200 GAL/TON OF MULCH

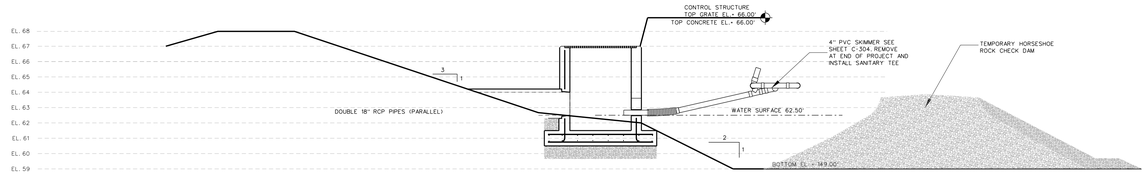
JANUARY 1-DECEMBER 31
50# Tall Fescue
5# Centipede
50# Pensacola Bahiagrass
500# Fertilizer
4000#Limestone

SLOPES 2:1 AND STEEPER AND WASTE AND BORROW LOCATIONS:
JANUARY 1-DECEMBER 31
75# Tall Fescue
50# Centipede
500# Fertilizer
4000#Limestone

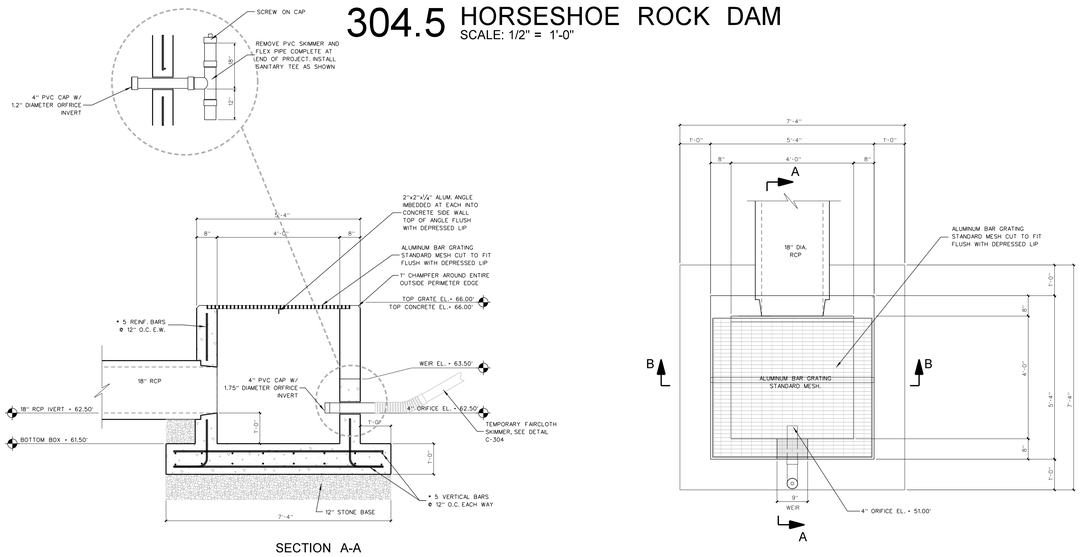
TEMPORARY SEEDING

"COOL SEASON" PLANTED BETWEEN 15 AUGUST AND 15 APRIL
120# RYE GRAIN (NO RYE GRASS)

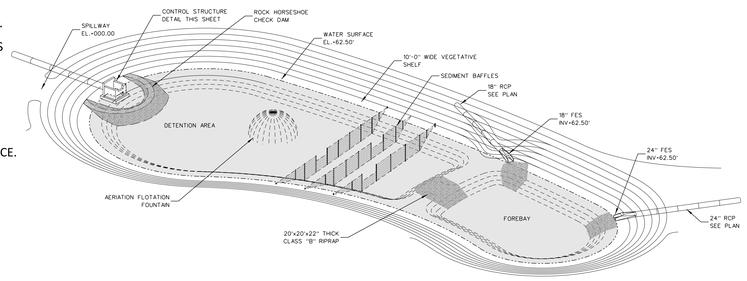
"WARM SEASON" PLANTED BETWEEN 15 APRIL AND 15 AUGUST
65# GERMAN BROWN TOP OR FOX TAIL MILLET



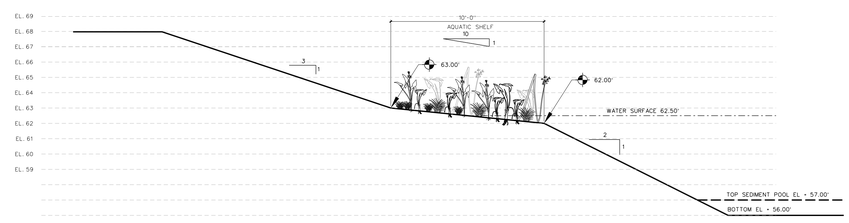
304.5 HORSESHOE ROCK DAM
SCALE: 1/2" = 1'-0"



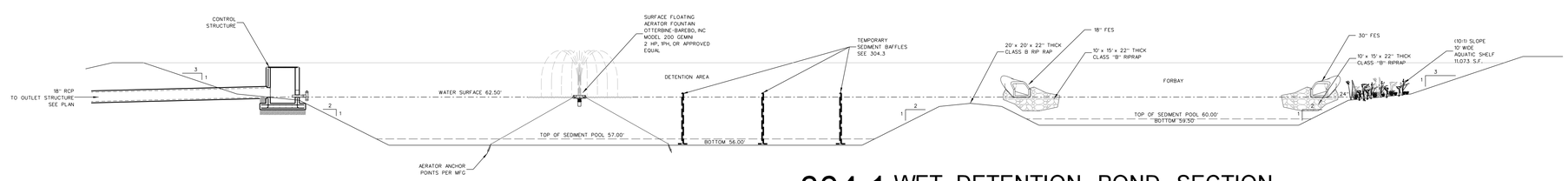
304.4 WET DETENTION CONTROL STRUCTURE
SCALE: 1/2" = 1'-0"



304.3 WET DETENTION - ISOMETRIC
SCALE: NONE



304.2 SECTION - AQUATIC SHELF
SCALE: NONE



304.1 WET DETENTION POND SECTION
SCALE: NONE

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COMMUNITY CENTER AND GYMNASIUM FOR
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Project No.	22207
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Drawing no.	C 304

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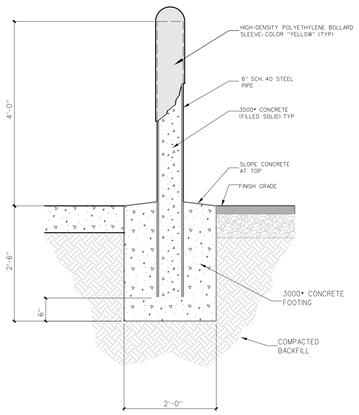
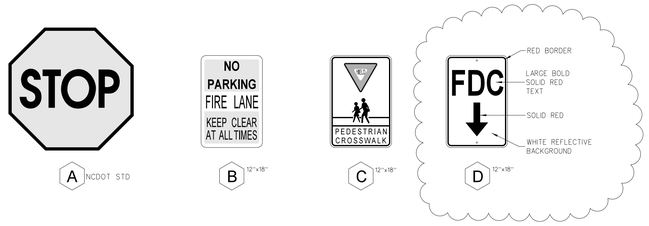
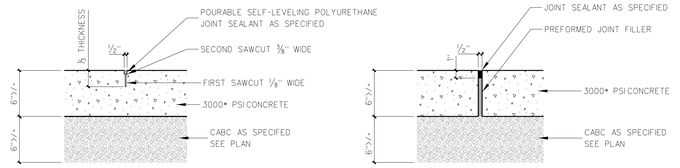


305.12 STEEL BOLLARD DETAIL
SCALE: 3/4" = 1'-0"

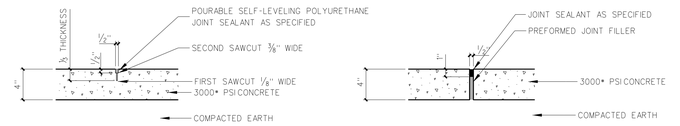


305.11 TRAFFIC SIGN DESIGNATION
SCALE: NONE



SAW CUT CONTROL JOINT (C.J.)

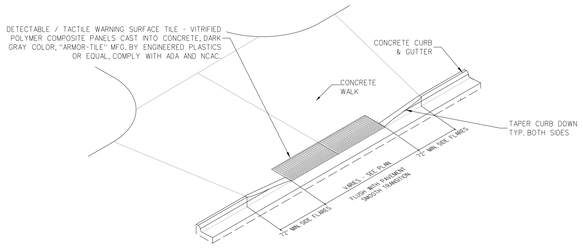
EXPANSION JOINT (E.J.)
(Joints not to exceed 20' o.c., locate at all walk intersections and inside corners)



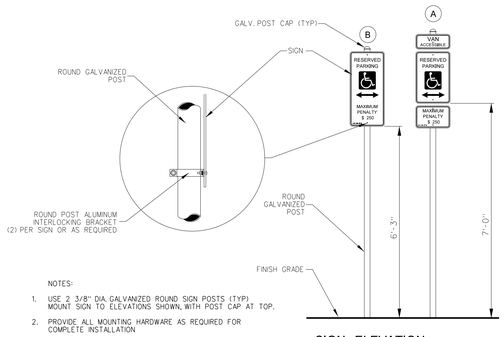
SAW CUT CONTROL JOINT (C.J.)
(Joints not to exceed 5' o.c.)

EXPANSION JOINT (E.J.)
(Joints not to exceed 20' o.c., locate at all walk intersections and inside corners)

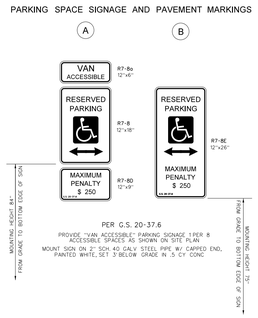
305.10 CONCRETE JOINT DETAILS
SCALE: NONE



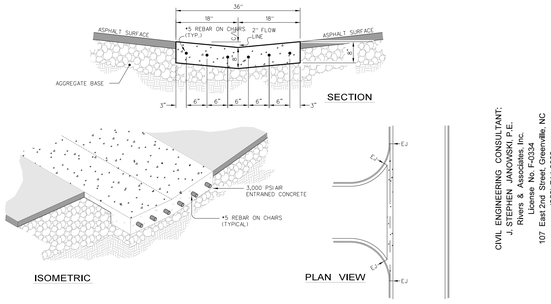
305.9 ACCESSIBLE CURB CUT @ H/C ACCESSIBLE PARKING
SCALE: NONE



SIGN ELEVATION

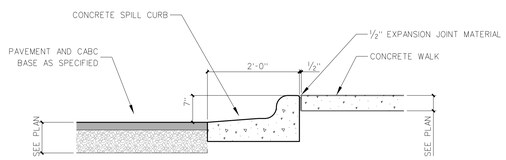


305.8 TYPICAL HANDICAP PARKING SIGN
SCALE: NONE

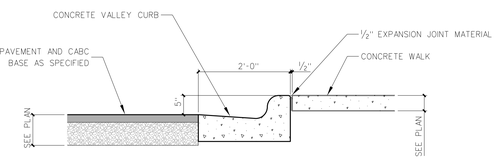


REFERENCE CITY OF GREENVILLE MANUAL OF STANARD DESIGNS & DETAILS #411.05

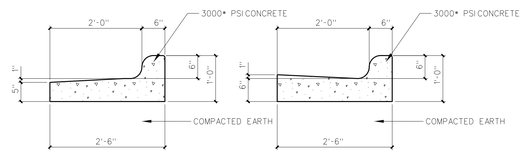
305.7 CONCRETE VALLEY GUTTER
SCALE: 3/4" = 1'-0"



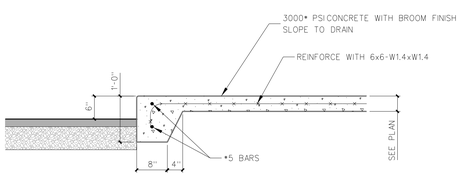
306.6 CONCRETE SPILL CURB @ WALK
SCALE: 3/4" = 1'-0"



305.5 CONCRETE CURB/GUTTER @ WALK
SCALE: 3/4" = 1'-0"

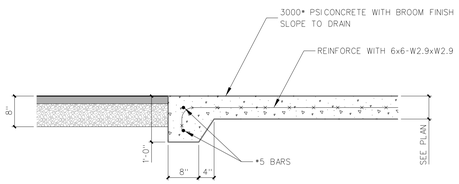


30" SPILL 30" GUTTER



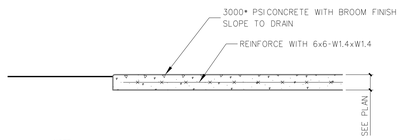
NOTE:
PROVIDE SAWCUT JOINTS AT 5'-0" O.C., VERIFY LAYOUT WITH ARCHITECT.
SAWCUT JOINTS MIN. ⅓ SLAB THICKNESS NO MORE THAN 24 HOURS
AFTER PLACEMENT, SEE JOINT DETAILS PROVIDE ½" EXPANSION JOINTS
AS SPECIFIED, 30'-0" O.C. MAX., VERIFY LAYOUT WITH ARCHITECT

305.4 LIGHT-DUTY MONOLITHIC CURB
SCALE: 3/4" = 1'-0"



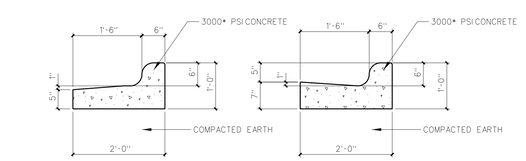
NOTE:
PROVIDE SAWCUT JOINTS AT 10'-0" O.C., VERIFY LAYOUT WITH ARCHITECT.
SAWCUT JOINTS MIN. ⅓ SLAB THICKNESS NO MORE THAN 24 HOURS
AFTER PLACEMENT, SEE JOINT DETAILS PROVIDE ½" EXPANSION JOINTS
AS SPECIFIED, 30'-0" O.C. MAX., VERIFY LAYOUT WITH ARCHITECT

305.3 HEAVY-DUTY CONCRETE SLAB
SCALE: 3/4" = 1'-0"



NOTE:
PROVIDE SAWCUT JOINTS AT 10'-0" O.C., VERIFY LAYOUT WITH ARCHITECT.
SAWCUT JOINTS MIN. ⅓ SLAB THICKNESS NO MORE THAN 24 HOURS
AFTER PLACEMENT, SEE JOINT DETAILS PROVIDE ½" EXPANSION JOINTS
AS SPECIFIED, 30'-0" O.C. MAX., VERIFY LAYOUT WITH ARCHITECT

305.2 LIGHT-DUTY CONCRETE SLAB
SCALE: 3/4" = 1'-0"



24" SPILL 24" GUTTER

305.1 24"/30" CONCRETE CURB DETAILS
SCALE: 3/4" = 1'-0"

No.	Date	Revision
1	4-27-23	REVISED PER CITY OF GREENVILLE COMMENTS

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HITE ASSOCIATES, P.C. — CORPORATE NUMBER C-4118 — GREENVILLE, NC

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(252)-714-3022

COMMUNITY CENTER AND GYMNASIUM FOR
Alice F. Keene District Park
4561 County Home Road, Greenville, NC 27858

Project No. 22207
Date: December 1, 2022
Drawing no. C 305

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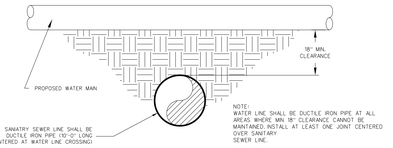
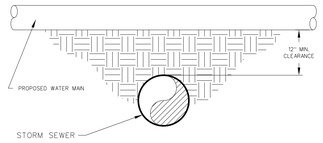
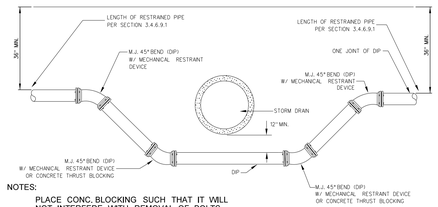


SANITARY SEWER PIPE BELOW WATER LINE



STORM PIPE BELOW WATER LINE

NOTE:
WATER LINE SHALL BE DUCTILE IRON PIPE AT ALL AREAS WHERE MIN 12" CLEARANCE CANNOT BE MAINTAINED. INSTALL AT LEAST ONE JOINT CENTERED OVER STORM DRAIN.



NOTES:

PLACE CONC. BLOCKING SUCH THAT IT WILL NOT INTERFERE WITH REMOVAL OF BOLTS.

PIPE DIAMETER GREATER THAN 12" SEE GUC ENGINEERING DEPT.

PIPE LENGTHS SHALL BE AS REQUIRED TO CONSTRUCT CROSSING.

ALL JOINTS TO BE RESTRAINED IN ACCORDANCE WITH MANUAL.

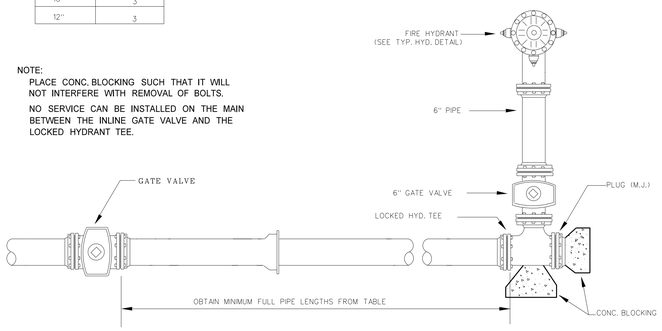
WATER MAIN AND STORM DRAIN CROSSING

306.6 WATER MAIN STORM DRAIN CROSSING
SCALE: NTS

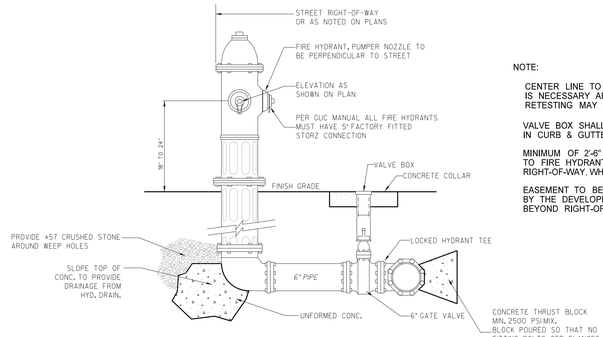
PIPE DIA. (IN.)	MIN. FULL PIPE LENGTHS
6"	2
8"	3
10"	3
12"	3

NOTE:
PLACE CONC. BLOCKING SUCH THAT IT WILL NOT INTERFERE WITH REMOVAL OF BOLTS.

NO SERVICE CAN BE INSTALLED ON THE MAIN BETWEEN THE INLINE GATE VALVE AND THE LOCKED HYDRANT TEE.



306.5 TERMINATION 6"-12" WATER MAIN
SCALE: NONE



NOTE:

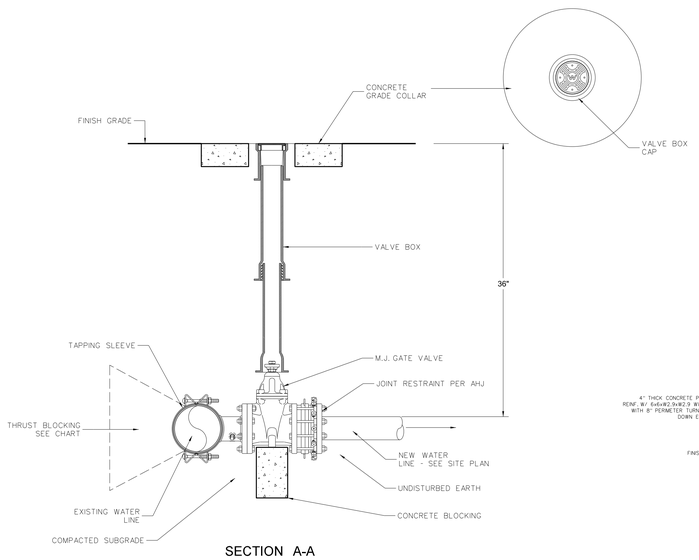
CENTER LINE TO BE PLUMB. IF ADJUSTMENT IS NECESSARY AFTER PRESSURE TEST, RETESTING MAY BE REQUIRED BY U.C.

VALVE BOX SHALL NOT BE INSTALLED IN CURB & GUTTER

MINIMUM OF 2'-6" FROM TOP OF SLOPE TO FIRE HYDRANT OR EXTENDED TO RIGHT-OF-WAY, WHICHEVER IS GREATER.

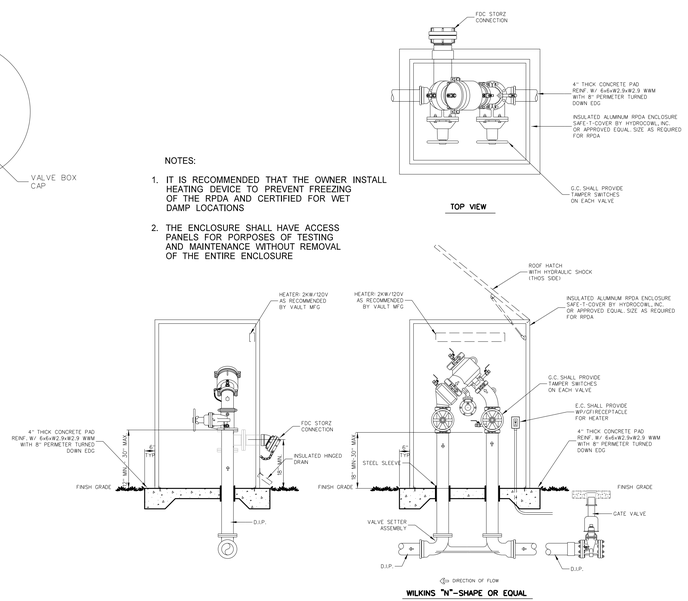
EASEMENT TO BE GRANTED TO GUC BY THE DEVELOPER IF HYDRANT EXTENDS BEYOND RIGHT-OF-WAY.

306.4 FIRE HYDRANT DETAIL
SCALE: NONE



SECTION A-A

306.3 TAPPING SLEEVE & VALVE DET.
SCALE: NONE



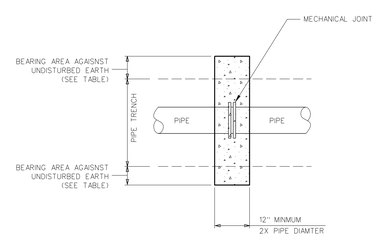
NOTES:

1. IT IS RECOMMENDED THAT THE OWNER INSTALL HEATING DEVICE TO PREVENT FREEZING OF THE RPDA AND CERTIFIED FOR WET DAMP LOCATIONS
2. THE ENCLOSURE SHALL HAVE ACCESS PANELS FOR PORPOSES OF TESTING AND MAINTENANCE WITHOUT REMOVAL OF THE ENTIRE ENCLOSURE

306.2 REDUCED PRESSURE DETECTOR ASSEMBLY
SCALE: NONE

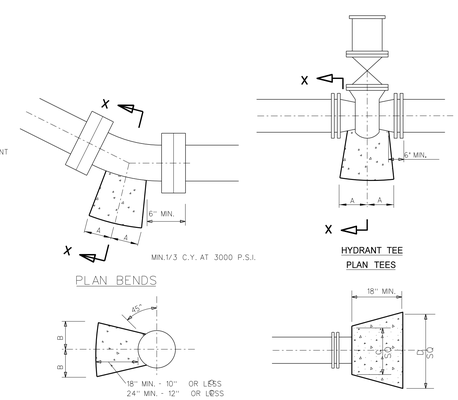
NOTES:

1. CONCRETE SHALL BE 3,000 PSI MIN.
2. CONCRETE FOR THRUST BLOCKING SHALL BE KEPT FAIRLY DRY, THUS MAKING THE CONCRETE WEDGE SHAPE MORE EASILY FORMED WITH THE WIDEST PART (BLOCKING AREA) AGAINST UNDISTURBED SOIL.
3. NO CONCRETE SHALL COVER ANY BOLTS OR GLANDS.
4. ALL PIPING AND ACCESSORIES TO BE WRAPPED WITH 10 MIL. POLYETHYLENE PRIOR TO POURING BLOCKING.
5. VOLUME OF THRUST BLOCKING SHALL BE AS SHOWN ON THE THRUST BLOCKING SCHEDULE.



SOIL	BEARING LOAD (lb/sq.ft.)
MUCKY	0
SOFT CLAY	1,000
SILT	1,500
SANDY SILT	3,000
SAND	4,000
SANDY CLAY	6,000
HARD CLAY	9,000

MIN. BEARING AREAS ARE BASED UPON THE TABLE ABOVE. FOR SOILS HAVING BEARING CAPACITIES DIFFERENT THAN THAT SHOWN ADJUST AREA AS NECESSARY TO PROVIDE EQUIVALENT RESTRAINT. THURST RESTRAINT WITH ANOCHOR RING



PIPE SIZE	90° BEND		45° BEND		22 1/2° BEND		11 1/4° BEND		TEE			PLUG	
	A	B	A	B	A	B	A	B	A	B	C	D	
4"	8"	12"	8"	8"	6"	6"	6"	6"	8"	9"	10"	16"	
6"	10"	12"	8"	10"	8"	8"	8"	8"	10"	10"	12"	18"	
8"	15"	13"	10"	10"	8"	8"	8"	8"	10"	12"	12"	24"	
10"	16"	14"	10"	12"	6"	10"	6"	10"	11"	14"	14"	25"	
12"	20"	16"	12"	14"	8"	12"	8"	12"	14"	16"	16"	30"	
14"	22"	18"	14"	16"	10"	14"	10"	14"	16"	18"	18"	34"	
16"	26"	20"	16"	18"	12"	16"	12"	16"	18"	20"	20"	36"	

306.1 THRUST BLOCKING DETAIL
SCALE: NONE

No.	Date	Revision

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HITE ASSOCIATES, P.A. ARCHITECTURAL CORPORATION LICENSED TO PRACTICE IN NORTH CAROLINA GREENVILLE, N.C. CERTIFICATE NUMBER 4118 12/31/2023

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COMMUNITY CENTER AND GYMNASIUM FOR
Alice F. Keene District Park
4561 County Home Road, Greenville, NC 27858

Project No. 22207
Date: December 1, 2022
Drawing no. C 306

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SKIMMER BASIN (REF: SHEET C-303)

CONSTRUCTION SPECIFICATIONS

1. CLEAR, GRUB AND STRIP THE AREA UNDER THE EMBANKMENT OF ALL VEGETATION AND ROOT MAT. REMOVE ALL SURFACE SOIL CONTAINING HIGH AMOUNTS OF ORGANIC MATTER AND STOCKPILE OR DISPOSE OF IT PROPERLY. HAUL ALL OBJECTIONABLE MATERIAL TO THE DESIGNATED DISPOSAL AREA. PLACE TEMPORARY SEDIMENT CONTROL MEASURES BELOW BASIN AS NEEDED.

2. ENSURE THAT FILL MATERIAL FOR THE EMBANKMENT IS FREE OF ROOTS, WOODY VEGETATION, ORGANIC MATTER, AND OTHER OBJECTIONABLE MATERIAL. PLACE THE FILL IN LIFTS NOT TO EXCEED 9 INCHES, AND MACHINE COMPACT IT. OVER FILL THE EMBANKMENT 6 INCHES TO ALLOW FOR SETTLEMENT.

3. SHAPE THE BASIN TO THE SPECIFIED DIMENSIONS. PREVENT THE SKIMMING DEVICE FROM SETTLING INTO THE MUD BY EXCAVATING A SHALLOW PIT UNDER THE SKIMMER OF PROVIDING A LOW SUPPORT UNDER THE SKIMMER OF STONE OR TIMBER.

4. PLACE THE BARREL (TYPICALLY 4-INCH SCHEDULE 40 PVC PIPE) ON A FIRM, SMOOTH FOUNDATION OF IMPERVIOUS SOIL. DO NOT USE PERVIOUS MATERIAL SUCH AS SAND, GRAVEL, OR CRUSHED STONE AS BACKFILL AROUND THE PIPE. PLACE THE FILL MATERIAL AROUND THE PIPE SPILLWAY IN 4-INCH LAYERS AND COMPACT IT UNDER AND AROUND THE PIPE TO AT LEAST THE SAME DENSITY AS THE ADJACENT EMBANKMENT. CARE MUST BE TAKEN NOT TO RAISE THE PIPE FROM THE FIRM CONTACT WITH ITS FOUNDATION WHEN COMPACTING UNDER THE PIPE HAUNCHES. PLACE A MINIMUM DEPTH OF 2 FEET OF COMPACTED BACKFILL OVER THE PIPE SPILLWAY BEFORE CROSSING IT WITH CONSTRUCTION EQUIPMENT. IN NO CASE SHOULD THE PIPE CONDUIT BE INSTALLED BY CUTTING A TRENCH THROUGH THE DAM AFTER THE EMBANKMENT IS COMPLETE.

5. ASSEMBLE THE SKIMMER FOLLOWING THE MANUFACTURERS INSTRUCTIONS, OR AS DESIGNED.

6. LAY THE ASSEMBLED SKIMMER ON THE BOTTOM OF THE BASIN WITH THE FLEXIBLE JOINT AT THE INLET OF THE BARREL PIPE. ATTACH THE FLEXIBLE JOINT TO THE BARREL PIPE AND POSITION THE SKIMMER OVER THE EXCAVATED PIT OR SUPPORT. BE SURE TO ATTACH A ROPE TO THE SKIMMER AND ANCHOR IT TO THE SIDE OF THE BASIN. THIS WILL BE USED TO PULL THE SKIMMER TO THE SIDE FOR MAINTENANCE.

7. EARTHEN SPILLWAYS INSTALL THE SPILLWAY IN UNDISTURBED SOIL TO THE GREATEST EXTENT POSSIBLE. THE ACHIEVEMENT OF PLANNED ELEVATIONS, GRADE, DESIGN WIDTH, AND ENTRANCE AND EXIT CHANNEL SLOPES ARE CRITICAL TO THE SUCCESSFUL OPERATION OF THE SPILLWAY. THE SPILLWAY SHOULD BE LINED WITH LAMINATED PLASTIC OR IMPERMEABLE GEOTEXTILE FABRIC. THE FABRIC MUST BE WIDE AND LONG ENOUGH TO COVER THE BOTTOM AND SIDES AND EXTEND ONTO THE TOP OF THE DAM FOR ANCHORING IN A TRENCH. THE EDGES MAY BE SECURED WITH 8-INCH STAPLES OR PINS. THE FABRIC MUST BE LONG ENOUGH TO EXTEND DOWN THE SLOPE AND EXIT ONTO STABLE GROUND. THE WIDTH OF THE FABRIC MUST BE ONE PIECE, NOT JOINED OR SPLICED; OTHERWISE WATER CAN GET UNDER THE FABRIC. IF THE LENGTH OF THE FABRIC IS INSUFFICIENT FOR THE ENTIRE LENGTH OF THE SPILLWAY, MULTIPLE SECTIONS, SPANNING THE COMPLETE WIDTH, MAY BE USED. THE UPPER SECTION(S) SHOULD OVERLAP THE LOWER SECTION(S) SO THAT WATER CANNOT FLOW UNDER THE FABRIC. SECURE THE UPPER EDGE AND SIDES OF THE FABRIC IN A TRENCH WITH STAPLES OR PINS.

8. INLETS DISCHARGE WATER INTO THE BASIN IN A MANNER TO PREVENT EROSION. USE TEMPORARY SLOPE DRAINS OR DIVERSIONS WITH OUTLET PROTECTION TO DIVERT SEDIMENT-LADEN WATER TO THE UPPER END OF THE POOL AREA TO IMPROVE BASIN TRAP EFFICIENCY

9. EROSION CONTROL CONSTRUCT THE STRUCTURE SO THAT THE DISTURBED AREA IS MINIMIZED. DIVERT SURFACE WATER AWAY FROM BARE AREAS. COMPLETE THE EMBANKMENT BEFORE THE AREA IS CLEARED. STABILIZE THE EMERGENCY SPILLWAY EMBANKMENT AND ALL OTHER DISTURBED AREAS ABOVE THE CREST OF THE PRINCIPAL SPILLWAY IMMEDIATELY AFTER CONSTRUCTION.

10. INSTALL POROUS BAFFLES.

11. AFTER ALL THE SEDIMENT-PRODUCING AREAS HAVE BEEN PERMANENTLY STABILIZED, REMOVE THE STRUCTURE AND ALL THE UNSTABLE SEDIMENT. SMOOTH THE AREA TO BLEND WITH THE ADJOINING AREAS AND STABILIZE PROPERLY.

MAINTENANCE

INSPECT SKIMMER SEDIMENT BASINS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (ONE-HALF INCH OR GREATER) RAINFALL EVENT AND REPAIR IMMEDIATELY. REMOVE SEDIMENT AND RESTORE THE BASIN TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT ACCUMULATES TO ONE-HALF THE HEIGHT OF THE FIRST BAFFLE PULL THE SKIMMER TO ONE SIDE SO THAT THE SEDIMENT UNDERNEATH IT CAN BE EXCAVATED. EXCAVATE THE SEDIMENT FROM THE ENTIRE BASIN, NOT JUST AROUND THE SKIMMER OF THE FIRST CELL. MAKE SURE VEGETATION GROWING IN THE BOTTOM OF THE BASIN DOES NOT HOLD DOWN THE SKIMMER.

REPAIR THE BAFFLES IF THEY ARE DAMAGED. RE-ANCHOR THE BAFFLES IF WATER IS FLOWING UNDERNEATH OR AROUND THEM.

IF THE SKIMMER IS CLOGGED WITH TRASH AND THERE IS WATER IN THE BASIN, USUALLY JERKING ON THE ROPE WILL MAKE THE SKIMMER BOB UP AND DOWN AND DISLODGE THE DEBRIS AND RESTORE FLOW. IF THIS DOES NOT WORK, PULL THE SKIMMER OVER TO THE SIDE OF THE BASIN AND REMOVE THE DEBRIS. ALSO CHECK THE ORIFICE INSIDE THE SKIMMER TO SEE IF IT IS CLOGGED; IF SO REMOVE THE DEBRIS.

IF THE SKIMMER ARM OR BARREL PIPE IS CLOGGED, THE ORIFICE CAN BE REMOVED AND THE OBSTRUCTION CLEARED WITH A PLUMBER'S SNAKE OR BY FLUSHING WITH WATER. BE SURE AND REPLACE THE ORIFICE BEFORE REPOSITIONING THE SKIMMER.

CHECK THE FABRIC LINED SPILLWAY FOR DAMAGE AND MAKE ANY REQUIRED REPAIRS WITH FABRIC THAT SPANS THE FULL WIDTH OF THE SPILLWAY. CHECK THE EMBANKMENT, SPILLWAYS, AND OUTLET FOR EROSION DAMAGE, AND INSPECT THE EMBANKMENT FOR PIPING AND SETTLEMENT. MAKE ALL NECESSARY REPAIRS IMMEDIATELY. REMOVE ALL TRASH AND OTHER DEBRIS FROM THE SKIMMER AND POOL AREAS.

FREEZING WEATHER CAN RESULT IN ICE FORMING IN THE BASIN. SOME SPECIAL PRECAUTIONS SHOULD BE TAKEN IN THE WINTER TO PREVENT THE SKIMMER FROM PLUGGING WITH ICE.

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE (REF DETAIL SHEET C-302)

CONSTRUCTION SPECIFICATIONS

1. CLEAR THE ENTRANCE AND EXIT AREA OF ALL VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL AND PROPERLY GRADE IT.

2. PLACE THE GRAVEL TO THE SPECIFIC GRADE AND DIMENSIONS SHOWN ON THE PLANS, AND SMOOTH IT.

3. PROVIDE DRAINAGE TO CARRY WATER TO A SEDIMENT TRAP OR OTHER SUITABLE OUTLET.

4. USE GEOTEXTILE FABRICS BECAUSE THEY IMPROVE STABILITY OF THE FOUNDATION IN LOCATIONS SUBJECT TO SEEPAGE OR HIGH WATER TABLE.

MAINTENANCE

MAINTAIN THE GRAVEL PAD IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. THIS MAY REQUIRE PERIODIC TOPDRESSING WITH 2-INCH STONE. AFTER EACH RAINFALL, INSPECT ANY STRUCTURE USED TO TRAP SEDIMENT AND CLEAN IT OUT AS NECESSARY. IMMEDIATELY REMOVE ALL OBJECTIONABLE MATERIALS SPILLED, WASHED, OR TRACKED ONTO PUBLIC ROADWAYS.

TEMPORARY DIVERSION (REF DETAIL SHEET C-302)

CONSTRUCTION SPECIFICATIONS

1. REMOVE ALL TREES, BRUSH, STUMPS, AND OTHER OBJECTIONABLE MATERIAL FROM THE FOUNDATION AREA, AND DISPOSE OF PROPERLY.

2. EXCAVATE THE CHANNEL, AND SHAPE IT TO NEAT LINES AND DIMENSIONS SHOWN ON THE PLANS PLUS A 0.2-FOOT OVERCUT AROUND THE CHANNEL PERIMETER TO ALLOW FOR BULKING DURING SEEDBED PREPARATIONS AND SOD BUILDUP.

3. REMOVE AND PROPERLY DISPOSE OF ALL EXCESS SOIL SO THAT SURFACE WATER MAY ENTER THE CHANNEL FREELY.

4. THE PROCEDURE USED TO ESTABLISH GRASS IN THE CHANNEL WILL DEPEND UPON THE SEVERITY OF THE CONDITIONS AND SELECTION OF SPECIES. PROTECT THE CHANNEL WITH MULCH OR A TEMPORARY LINER SUFFICIENT TO WITHSTAND ANTICIPATED VELOCITIES DURING THE ESTABLISHMENT PERIOD.

MAINTENANCE

DURING THE ESTABLISHMENT PERIOD, CHECK GRASS-LINED CHANNELS AFTER EVERY RAINFALL. AFTER GRASS IS ESTABLISHED, PERIODICALLY CHECK THE CHANNEL; CHECK IT AFTER EVERY HEAVY RAINFALL EVENT. IMMEDIATELY MAKE REPAIRS. IT IS PARTICULARLY IMPORTANT TO CHECK THE CHANNEL OUTLET AND ALL ROAD CROSSINGS FOR BANK STABILITY AND EVIDENCE OF PIPE OR SCOUR HOLES. REMOVE ALL SIGNIFICANT SEDIMENT ACCUMULATIONS TO MAINTAIN THE DESIGNED CARRYING CAPACITY. KEEP THE GRASS IN A HEALTHY, VIGOROUS CONDITION AT ALL TIMES, SINCE IT IS THE PRIMARY EROSION PROTECTION FOR THE CHANNEL.

RIPRAP OUTLET PROTECTION (REF DETAIL SHEET C-302.9)

CONSTRUCTION SPECIFICATIONS

1. ENSURE THAT THE SUBGRADE FOR THE FILTER AND RIPRAP FOLLOWS THE REQUIRED LINES AND GRADES SHOWN IN THE PLAN. COMPACT ANY FILL REQUIRED IN THE SUBGRADE TO THE DENSITY OF THE SURROUNDING UNDISTURBED MATERIAL. LOW AREAS IN THE SUBGRADE ON UNDISTURBED SOIL MAY ALSO BE FILLED BY INCREASING THE RIPRAP THICKNESS.

2. THE RIPRAP AND GRAVEL FILTER MUST CONFORM TO THE SPECIFIED GRADING LIMITS SHOWN ON THE PLANS.

3. FILTER CLOTH, WHEN USED, MUST MEET DESIGN REQUIREMENTS AND BE PROPERLY PROTECTED FROM PUNCHING OR TEARING DURING INSTALLATION. REPAIR ANY DAMAGE BY REMOVING THE RIPRAP AND PLACING ANOTHER PIECE OF FILTER CLOTH OVER THE DAMAGED AREA. ALL CONNECTING JOINTS SHOULD OVERLAP SO THE TOP LAYER IS ABOVE THE DOWNSTREAM LAYER A MINIMUM OF 1 FOOT. IF THE DAMAGE IS EXTENSIVE, REPLACE THE ENTIRE FILTER CLOTH.

4. RIPRAP MAY BE PLACED BY EQUIPMENT, BUT TAKE CARE TO AVOID DAMAGING THE FILTER.

5. THE MINIMUM THICKNESS OF THE RIPRAP SHOULD BE 1.5 TIMES THE MAXIMUM STONE DIAMETER.

6. RIPRAP MAY BE FIELD STONE OR ROUGH QUARRY STONE. IT SHOULD BE HARD, ANGULAR, HIGHLY WEATHER-RESISTANT AND WELL GRADED.

7. CONSTRUCT THE APRON ON ZERO GRADE WITH NO OVERFILL AT THE END. MAKE THE TOP OF THE RIPRAP AT THE DOWNSTREAM END LEVEL WITH THE RECEIVING AREA OR SLIGHTLY BELOW IT.

8. ENSURE THAT THE APRON IS PROPERLY ALIGNED WITH THE RECEIVING STREAM AND PREFERABLY STRAIGHT THROUGHOUT ITS LENGTH. IF A CURVE IS NEEDED TO FIT SITE CONDITIONS, PLACE IT IN THE UPPER SECTION OF THE APRON.

9. IMMEDIATELY AFTER CONSTRUCTION, STABILIZE ALL DISTURBED AREAS WITH VEGETATION

MAINTENANCE

INSPECT RIPRAP OUTLET STRUCTURES WEEKLY AND AFTER SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENTS TO SEE IF ANY EROSION AROUND OR BELOW THE RIPRAP HAS TAKEN PLACE, OR IF STONES HAVE BEEN DISLODGED. IMMEDIATELY MAKE ALL NEEDED REPAIRS TO PREVENT FURTHER DAMAGE.

LINER (REF DETAIL SHEET C-302)

CONSTRUCTION SPECIFICATIONS

EVEN IF PROPERLY DESIGNED, IF NOT PROPERLY INSTALLED, RECP'S WILL PROBABLY NOT FUNCTION AS DESIRED. PROPER INSTALLATION IS IMPERATIVE. EVEN IF PROPERLY INSTALLED, IF NOT PROPERLY TIMED AND NOURISHED, VEGETATION WILL PROBABLY NOT GROW AS DESIRED. PROPER SEED/VEGETATION SELECTION IS ALSO IMPERATIVE.

GRADE THE SURFACE OF INSTALLATION AREAS SO THAT THE GROUND IS SMOOTH AND LOOSE. WHEN SEEDING PRIOR TO INSTALLATION, FOLLOW THE STEPS FOR SEED BED PREPARATION, SOIL AMENDMENTS, AND SEEDING IN SURFACE STABILIZATION, 6.1. ALL GULLIES, RILLS, AND ANY OTHER DISTURBED AREAS MUST BE FINE GRADED PRIOR TO INSTALLATION. SPREAD SEED BEFORE RECP INSTALLATION. (IMPORTANT: REMOVE ALL LARGE ROCKS, DIRT CLODS, STUMPS, ROOTS, GRASS CLUMPS, TRASH, AND OTHER OBSTRUCTIONS FROM THE SOIL SURFACE TO ALLOW FOR DIRECT CONTACT BETWEEN THE SOIL SURFACE AND THE RECP).

TERMINAL ANCHOR TRENCHES ARE REQUIRED AT RECP ENDS AND INTERMITTENT TRENCHES MUST BE CONSTRUCTED ACROSS CHANNELS AT 25-FOOT INTERVALS. TERMINAL ANCHOR TRENCHES SHOULD BE A MINIMUM OF 12 INCHES IN DEPTH AND 6 INCHES IN WIDTH, WHILE INTERMITTENT TRENCHES NEED BE ONLY 6 INCHES DEEP AND 6 INCHES WIDE.

INSTALLATION FOR SLOPES PLACE THE RECP 2-3 FEET OVER THE TOP OF THE SLOPE AND INTO AN EXCAVATED END TRENCH MEASURING APPROXIMATELY 12 INCHES DEEP BY 6 INCHES WIDE. PIN THE RECP AT 1 FOOT INTERVALS ALONG THE BOTTOM OF THE TRENCH, BACKFILL, AND COMPACT. UNROLL THE RECP DOWN (OR ALONG) THE SLOPE MAINTAINING DIRECT CONTACT BETWEEN THE SOIL AND THE RECP. OVERLAP ADJACENT ROLLS A MINIMUM OF 3 INCHES. PIN THE RECP TO THE GROUND USING STAPLES OR PINS IN A 3 FOOT CENTER-TO-CENTER PATTERN. LESS FREQUENT STAPLING/PINNING IS ACCEPTABLE ON MODERATE SLOPES.

INSTALLATION IN CHANNELS EXCAVATE TERMINAL TRENCHES (12 INCHES DEEP AND 6 INCHES WIDE) ACROSS THE CHANNEL AT THE UPPER AND LOWER END OF THE LINED CHANNEL SECTIONS. AT 25-FOOT INTERVALS ALONG THE CHANNEL, ANCHOR THE RECP ACROSS THE CHANNEL EITHER IN 6 INCH BY 6 INCH TRENCHES OR BY INSTALLING TWO CLOSELY SPACED ROWS OF ANCHORS. EXCAVATE LONGITUDINAL TRENCHES 6 INCHES DEEP AND WIDE ALONG CHANNEL EDGES (ABOVE WATER LINE) IN WHICH TO BURY THE OUTSIDE RECP EDGES. PLACE THE FIRST RECP AT THE DOWNSTREAM END OF THE CHANNEL. PLACE THE END OF THE FIRST RECP IN THE TERMINAL TRENCH AND PIN IT AT 1 FOOT INTERVALS ALONG THE BOTTOM OF THE TRENCH.

NOTE: THE RECP SHOULD BE PLACED UPSIDE DOWN IN THE TRENCH WITH THE ROLL ON THE DOWNSTREAM SIDE OF THE BENCH.

ONCE PINNED AND BACKFILLED, THE RECP IS DEPLOYED BY WRAPPING OVER THE TOP OF THE TRENCH AND UNROLLING UPSTREAM. IF THE CHANNEL IS WIDER THAN THE PROVIDED ROLLS, PLACE ENDS OF ADJACENT ROLLS IN THE TERMINAL TRENCH, OVERLAPPING THE ADJACENT ROLLS A MINIMUM OF 3 INCHES. PIN AT 1 FOOT INTERVALS, BACKFILL, AND COMPACT. UNROLL THE RECP IN THE UPSTREAM DIRECTION UNTIL REACHING THE FIRST INTERMITTENT TRENCH. FOLD THE RECP BACK OVER ITSELF, POSITIONING THE ROLL ON THE DOWNSTREAM SIDE OF THE TRENCH, AND ALLOWING THE MAT TO CONFORM TO THE TRENCH.

THEN PIN THE RECP (TWO LAYERS) TO THE BOTTOM OF THE TRENCH, BACKFILL, AND COMPACT. CONTINUE UP THE CHANNEL (WRAPPING OVER THE TOP OF THE INTERMITTENT TRENCH) REPEATING THIS STEP AT OTHER INTERMITTENT TRENCHES, UNTIL REACHING THE UPPER TERMINAL TRENCH.

AT THE UPPER TERMINAL TRENCH, ALLOW THE RECP TO CONFORM TO THE TRENCH, SECURE WITH PINS OR STAPLES, BACKFILL, COMPACT AND THEN BRING THE MAT BACK OVER THE TOP OF THE TRENCH AND ONTO THE EXISTING MAT (2 TO 3 FEET OVERLAP IN THE DOWNSTREAM DIRECTION), AND PIN A 1 FOOT INTERVALS ACROSS THE RECP. WHEN STARTING INSTALLATION OF A NEW ROLL, BEGIN IN A TRENCH OR SHINGLE-LAP ENDS OF ROLLS A MINIMUM OF 1 FOOT WITH UPSTREAM RECP ON TOP TO PREVENT UPLIFTING. PLACE THE OUTSIDE EDGES OF THE RECP(S) IN LONGITUDINAL TRENCHES, PIN, BACKFILL, AND COMPACT.

ANCHORING DEVICES 11 GAUGE, AT LEAST 6 INCHES LENGTH BY 1 INCH WIDTH STAPLES OR 12 INCH MINIMUM LENGTH WOODEN STAKES ARE RECOMMENDED FOR ANCHORING THE RECP TO THE GROUND.

DRIVE STAPLES OR PINS SO THAT THE TOP OF THE STAPLE OR PIN IS FLUSH WITH THE GROUND SURFACE. ANCHOR EACH RECP EVERY 3 FEET ALONG ITS CENTER. LONGITUDINAL OVERLAPS MUST BE SUFFICIENT TO ACCOMMODATE A ROW OF ANCHORS AND UNIFORM ALONG THE ENTIRE LENGTH OF OVERLAP AND ANCHORED EVERY 3 FEET ALONG THE OVERLAP LENGTH. ROLL ENDS MAY BE SPLICED BY OVERLAPPING 1 FOOT (IN THE DIRECTION OF WATER FLOW), WITH THE UPSTREAM/UNSLOPE MAT PLACED ON TOP OF THE DOWNSTREAM/DOWNSLOPE RECP. THIS OVERLAP SHOULD BE ANCHORED AT 1 FOOT SPACING ACROSS THE RECP. WHEN INSTALLING MULTIPLE WIDTH MATS HEAT SEAMED IN THE FACTORY, ALL FACTORY SEAMS AND FIELD OVERLAPS SHOULD BE SIMILARLY ANCHORED.

MAINTENANCE

1. INSPECT ROLLED EROSION CONTROL PRODUCTS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAIN FALL EVENT REPAIR IMMEDIATELY.

2. GOOD CONTACT WITH THE GROUND MUST BE MAINTAINED, AND EROSION MUST NOT OCCUR BENEATH THE RECP.

3. ANY AREAS OF THE RECP THAT ARE DAMAGED OR NOT IN CLOSE CONTACT WITH THE GROUND SHALL BE REPAIRED AND STAPLED.

4. IF EROSION OCCURS DUE TO POORLY CONTROLLED DRAINAGE, THE PROBLEM SHALL BE FIXED AND THE ERODED AREA PROTECTED.
5. MONITOR AND REPAIR THE RECP AS NECESSARY UNTIL GROUND COVER IS ESTABLISHED.

SEDIMENT FENCE (REF DETAIL SHEET C-302)

CONSTRUCTION SPECIFICATIONS

1. USE A SYNTHETIC FILTER FABRIC OF AT LEAST 95% BY WITH OF POLYOLEFINS OR POLYESTER, WHICH IS CERTIFIED BY THE MFG OR SUPPLIER AS CONFORMING TO THE REQUIREMENTS IN ASTM D6461, WHICH IS SHOWN IN PART IN TABLE 6.62B.

   SYNTHETIC FILTER FABRIC SHOULD CONTAIN ULTRAVIOLENT RAY INHIBITORS AND STABILIZERS TO PROVIDE A MINIMUM OF 6 MONTHS OF EXPECTED USABLE CONSTRUCTION LIFE AT A TEMP. RANGE OF 0 TO 120° F.

2. ENSURE THAT THE POSTS FOR SEDIMENT FENCES ARE 1.25 LB/LF MIN. STEEL WITH A MINIMUM LENGTH OF 5 FT. MAKE SURE THAT THE STEEL POSTS HAVE PROJECTIONS TO FACILITATE FASTENING THE FABRIC.

3. FOR REINFORCEMENT OF STANDARD STRENGTH FILTER FABRIC, USE WIRE FENCE WITH A MINIMUM 14 GA. AND A MAXIMUM MESH SPACING OF 6 INCHES.

CONSTRUCTION:

1. CONSTRUCT THE SEDIMENT BARRIER OF STANDARD STRENGTH OR EXTRA STRENGTH SYNTHETIC FILTER FABRICS.
2. ENSURE THAT THE HEIGHT OF THE SEDIMENT FENCE DOES NOT EXCEED 24 INCHES ABOVE THE GROUND SURFACE. (HIGHER FENCES MAY IMPACT VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE OF THE STRUCTURE.
3. CONSTRUCT THE FILER FABRIC FROM A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID JOINTS. WHEN JOINTS ARE NECESSARY, SECURELY FASTEN THE FILTER CLOTH ONLY AT A SUPPORT POST WITH 4 FEET MINIMUM OVERLAY TO THE NEXT POST.
4. SUPPORT STANDARD FILTER FABRIC BY WIRE MESH FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS. EXTEND THE WIRE MESH SUPPORT TO THE BOTTOM OF THE TRENCH. FASTEN THE WIRE REINFORCEMENT, THEN FABRIC ON THE UPSLOPE SIDE OF THE FENCE POST. WIRE OF PLASTIC ZIP TIES SHOULD HAVE A MIN.. 50 LB. TENSILE STRENGTH.
5. WHEN WIRE MESH SUPPORT FENCE IS USED, SPACE POSTS A MAX. OF 8 FEET APART. SUPPORT POSTS SHOULD BE DRIVEN SECURELY INTO THE GROUND A MIN. OF 2 INCHES.
6. EXTRA STRENGTH FILTER FABRIC WITH 6 FT. POST SPACING DOES NOT REQUIRE WIRE MESH SUPPORT FENCE. SECURELY FASTEN THE FILTER FABRIC DIRECTLY TO POSTS. WIRE OF PLASTIC ZIP TIES SHOULD HAVE A MIN. 50 LP. TENSILE STRENGTH.
7. EXCAVATE A TRENCH APPROX. 4" WIDE A 8" DEEP ALONG THE PROPOSED LINE OF POSTS AND UPSLOPE FROM THE BARRIER.
8. PLACE 12" OF FILTER FABRIC ALONG THE BOTTOM AND SIDE OF THE TRENCH.
9. BACKFILL THE TRENCH WITH SOIL PLACED OVER THE FILTER FABRIC AND COMPACT. THROUGH COMPACTION OF THE BACKFILL IS CRITICAL TO THE SILT FENCE PERFORMANCE.
10. DO NOT ATTACH FILTER FABRIC TO EXISTING TREES.

MAINTENANCE

INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL, MAKE ANY REQUIRED REPAIRS IMMEDIATELY.

SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY.

REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT.

REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

ROCK CHECK DAM

CONSTRUCTION SPECIFICATIONS

1. PLACE STONE TO THE LINES AND DIMENSIONS SHOWN IN THE PLAN ON A FILTER FABRIC FOUNDATION.
2. KEEP THE CENTER STONE SECTION AT LEAST 9 INCHES BELOW NATURAL GROUND LEVEL WHERE THE DAM ABUTS THE CHANNEL BANKS.
3. EXTEND STONE AT LEAST 1.5 FEET BEYOND THE DITCH BANK TO KEEP WATER FROM CUTTING AROUND THE ENDS OF THE CHECK DAM.
4. SET SPACING BETWEEN DAMS TO ASSURE THAT THE ELEVATION AT THE TOP OF THE LOWER DAM IS THE SAME AS THE TOE ELEVATION OF THE UPPER DAM.
5. PROTECT THE CHANNEL AFTER THE LOWEST CHECK DAM FROM HEAVY FLOW THAT COULD CAUSE EROSION.
6. MAKE SURE THAT THE CHANNEL REACH ABOVE THE MOST UPSTREAM DAM IS STABLE.
7. ENSURE THAT OTHER AREAS OF THE CHANNEL, SUCH AS CULVERT ENTRANCES BELOW THE CHECK DAMS, ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONES.

MAINTENANCE

INSPECT CHECK DAMS AND CHANNELS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENT AND REPAIR IMMEDIATELY. CLEAN OUT SEDIMENT, STRAW, LIMBS, OR OTHER DEBRIS THAT COULD CLOG THE CHANNEL WHEN NEEDED.

ANTICIPATE SUBMERGENCE AND DEPOSITION ABOVE THE CHECK DAM AND EROSION FROM HIGH FLOWS AROUND THE EDGES OF THE DAM. CORRECT ALL DAMAGE IMMEDIATELY IF SIGNIFICANT EROSION OCCURS BETWEEN DAMS, ADDITIONAL MEASURES CAN BE TAKEN SUCH AS, INSTALLING A PROTECTIVE RIPRAP LINER IN THAT PORTION OF THE CHANNEL

REMOVE SEDIMENT ACCUMULATED BEHIND THE DAMS AS NEEDED TO PREVENT DAMAGE TO CHANNEL VEGETATION, ALLOW THE CHANNEL TO DRAIN THROUGH THE STONE CHECK DAM, AND PREVENT LARGE FLOWS FROM CARRYING SEDIMENT OVER THE DAM. ADD STONES TO DAMS AS NEEDED TO MAINTAIN DESIGN HEIGHT AND CROSS SECTION.

No.	Date	Revision

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COMMUNITY CENTER AND GYMNASIUM FOR
Alice F. Keene District Park
4561 County Home Road, Greenville, NC 27858

Project No. 22207
Date: December 1, 2022
Drawing no. C 307

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COMPOST SOCK WATTLE SPACING

CHANNEL SLOPE (%)	SPACING BETWEEN WATTLES	
	8" DIAMETER	12" DIAMETER
1	67'	100'
2	33'	50'
3	22'	33'
4	17'	25'
5	13'	20'

MATERIAL:
THE COMPOST MEDIA SHALL BE DERIVED FROM WELL-DECOMPOSED ORGANIC MATTER SOURCE PRODUCED BY CONTROLLED AEROBIC (BIOLOGICAL) DECOMPOSITION THAT HAS BEEN SANITIZED THROUGH THE GENERATION OF HEAT AND STABILIZED TO THE POINT THAT IT IS APPROPRIATE FOR THIS PARTICULAR APPLICATION. COMPOST MATERIAL SHALL BE PROCESSED THROUGH PROPER THERMOPHILIC COMPOSTING, MEETING THE US ENVIRONMENTAL PROTECTION AGENCY'S DEFINITION FOR A "PROCESS TO FURTHER REDUCE PATHOGENS" (PFRP), AS DEFINED AT 40 CFR PART 503. THE COMPOST PORTION SHALL MEET THE CHEMICAL, PHYSICAL AND BIOLOGICAL PROPERTIES SPECIFIED IN PRACTICE 6.18, COMPOST BLANKETS TABLE 6.18A, WITH THE EXCEPTION OF PARTICLE SIZE. SLIGHTLY MORE COARSE COMPOST IS RECOMMENDED FOR THE SOCKS, AS FOLLOWS:

SIEVE SIZE:	PERCENT PASSING SELECTED SIEVE MESH SIZE, DRY WEIGHT BASIS PARTICLE SIZE DISTRIBUTION
2"	99 % (3" MAXIMUM PARTICLE SIZE)
3/8"	30-50 %

COMPOST SOCK INITAIL FLOW RATES

COMPOST SOCK DESIGN DIAMTER	8 INCH (200mm)	12 INCH (300mm)	18 INCH (450mm)	24 INCH (600mm)	32 INCH (800mm)
MAXIMUM SLOPE LENGTH (,2%)	600 ft (183 M)	750 ft (229 M)	1000 ft (305 M)	1300 ft (396 M)	1650 ft (500 M)
HYDRAULIC FLOW THROUGH RATE	7.5 gpm/ft (94 l/m/m)	11.3 gpm/ft (141 l/m/m)	15.0 gpm/ft (188 l/m/m)	22.5 gpm/ft (281 l/m/m)	30.0 gpm/ft (374 l/m/m)

COMPOST SOCK

CONSTRUCTION SPECIFICATIONS

1. MATERIALS USED IN THE COMPOST SOCK MUST MEET THE SPECIFICATIONS OUTLINED ABOVE AND IN PRACTICE 6.18, COMPOST BLANKETS.
2. COMPOST SOCKS SHOULD BE LOCATED AS SHOWN ON THE EROSION AND SEDIMENTATION CONTROL PLAN.
3. PRIOR TO INSTALLATION, CLEAR ALL OBSTRUCTIONS INCLUDING ROCKS, CLODS, AND OTHER DEBRIS GREATER THAN ONE INCH THAT MAY INTERFERE WITH PROPER FUNCTION OF THE COMPOST SOCK.
4. COMPOST SOCKS SHOULD BE INSTALLED PARALLEL TO THE TOE OF A GRADED SLOPE, A MINIMUM OF 10 FEET BEYOND THE TOE OF THE SLOPE. SOCKS LOCATED BELOW FLAT AREAS SHOULD BE LOCATED AT THE EDGE OF THE LAND-DISTURBANCE. THE ENDS OF THE SOCKS SHOULD BE TURNED SLIGHTLY UP SLOPE TO PREVENT RUNOFF FROM GOING AROUND THE END OF THE SOCKS.
5. FILL SOCK NETTING UNIFORMLY WITH COMPOST TO THE DESIRED LENGTH SUCH THAT LOGS DO NOT DEFORM.
6. OAK OR OTHER DURABLE HARDWOOD STAKES 2" X 2" IN CROSS SECTION SHOULD BE DRIVEN VERTICALLY PLUMB, THROUGH THE CENTER OF THE COMPOST SOCK. STAKES SHOULD BE PLACED AT A MAXIMUM INTERVAL OF 4 FEET, OR A MAXIMUM INTERVAL OF 8 FEET IF THE SOCK IS PLACED IN A 4 INCH TRENCH. SHOULD BE DRIVEN TO A MINIMUM DEPTH OF 12 INCHES, WITH A MINIMUM OF 3 INCHES PROTRUDING ABOVE THE COMPOST SOCK.
7. IN THE EVENT STAKING IS NOT POSSIBLE (I.E., WHEN SOCKS ARE USED ON PAVEMENT) HEAVY CONCRETE BLOCKS SHALL BE USED BEHIND THE SOCK TO HOLD IT IN PLACE DURING RUNOFF EVENTS.
8. IF THE COMPOST SOCK IS TO BE LEFT AS PART OF THE NATURAL LANDSCAPE, IT MAY BE SEEDED AT TIME OF INSTALLATION FOR ESTABLISHMENT OF PERMANENT VEGETATION USING THE SEEDING SPECIFICATION IN THE EROSION AND SEDIMENTATION CONTROL PLAN.
9. COMPOST SOCKS ARE NOT TO BE USED IN PERENNIAL OR INTERMITTENT STREAMS.

MAINTENANCE

1 INSPECT COMPOST SOCKS WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL EVENT (1/2 INCH OR GREATER). REMOVE ACCUMULATED SEDIMENT AND ANY DEBRIS. THE COMPOST SOCK MUST BE REPLACED IF CLOGGED OR TORN. IF PONDING BECOMES EXCESSIVE, THE SOCK MAY NEED TO BE REPLACED WITH A LARGER DIAMETER OR A DIFFERENT MEASURE. THE SOCK NEEDS TO BE REINSTALLED IF UNDERMINED OR DISLODGED. THE COMPOST SOCK SHALL BE INSPECTED UNTIL LAND DISTURBANCE IS COMPLETE AND THE AREA ABOVE THE MEASURE HAS BEEN PERMANENTLY STABILIZED.

DISPOSAL/RECYCLING

COMPOST MEDIA IS A COMPOSTED ORGANIC PRODUCT RECYCLED AND MANUFACTURED FROM LOCALLY GENERATED ORGANIC, NATURAL, AND BIOLOGICALLY BASED MATERIALS. ONCE ALL SOIL HAS BEEN STABILIZED AND CONSTRUCTION ACTIVITY HAS BEEN COMPLETED, THE COMPOST MEDIA MAY BE DISPERSED WITH A LOADER, RAKE, BULLDOZER OR SIMILAR DEVICE AND MAY BE INCORPORATED INTO THE SOIL AS AN AMENDMENT OR LEFT ON THE SOIL SURFACE TO AID IN PERMANENT SEEDING OR LANDSCAPING. LEAVING THE COMPOST MEDIA ON SITE REDUCES REMOVAL AND DISPOSAL COSTS COMPARED TO OTHER SEDIMENT CONTROL DEVICES. THE MESH NETTING MATERIAL WILL BE EXTRACTED FROM THE MEDIA AND DISPOSED OF PROPERLY. THE PHOTODEGRADABLE MESH NETTING MATERIAL WILL DEGRADE IN 2 TO 5 YEARS IF LEFT ON SITE. BIODEGRADABLE MESH NETTING MATERIAL IS AVAILABLE AND DOES NOT NEED TO BE EXTRACTED AND DISPOSED OF, AS IT WILL COMPLETELY DECOMPOSE IN APPROXIMATELY 6 TO 12 MONTHS. USING BIODEGRADABLE COMPOST SOCKS COMPLETELY ELIMINATES THE NEED AND COST OF REMOVAL AND DISPOSAL.

SEDIMENT BASIN

CONSTRUCTION SPECIFICATIONS

1. SITE PREPARATIONS- CLEAR, GRUB, AND STRIP TOPSOIL FROM AREAS UNDER THE EMBANKMENT TO REMOVE TREES, VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL. DELAY CLEARING THE POOL AREA UNTIL THE DAM IS COMPLETE AND THEN REMOVE BRUSH, TREES, AND OTHER OBJECTIONABLE MATERIALS TO FACILITATE SEDIMENT CLEANOUT. STOCKPILE ALL TOPSOIL OR SOIL CONTAINING ORGANIC MATTER FOR USE ON THE OUTER SHELL OF THE EMBANKMENT TO FACILITATE VEGETATIVE ESTABLISHMENT. PLACE TEMPORARY SEDIMENT CONTROL MEASURES BELOW THE BASIN AS NEEDED.
2. CUT-OFF TRENCH- EXCAVATE A CUT-OFF TRENCH ALONG THE CENTER LINE OF THE EARTH FILL EMBANKMENT. CUT THE TRENCH TO STABLE SOIL MATERIAL, BUT IN NO CASE MAKE IT LESS THAN 2 FEET DEEP. THE CUT-OFF TRENCH MUST EXTEND INTO BOTH ABUTMENTS TO AT LEAST THE ELEVATION OF THE RISER CREST. MAKE THE MINIMUM BOTTOM WIDTH WIDE ENOUGH TO PERMIT OPERATION OF EXCAVATION AND COMPACTION EQUIPMENT, BUT IN NO CASE LESS THAN 2 FEET. MAKE SIDE SLOPES OF THE TRENCH NO STEEPER THAN 1:1. COMPACTION REQUIREMENTS ARE THE SAME AS THOSE FOR THE EMBANKMENT. KEEP THE TRENCH DRY DURING BACKFILLING AND COMPACTION OPERATIONS.
3. EMBANKMENT- TAKE FILL MATERIAL FROM THE APPROVED AREAS SHOWN ON THE PLANS.IT SHOULD BE CLEAN MINERAL SOIL, FREE OF ROOTS, WOODY VEGETATION, ROCKS, AND OTHER OBJECTIONABLE MATERIAL. SCARIFY AREAS ON WHICH FILL IS TO BE PLACED BEFORE PLACING FILL. THE FILL MATERIAL MUST CONTAIN SUFFICIENT MOISTURE SO IT CAN BE FORMED BY HAND INTO A BALL WITHOUT CRUMBLING. IF WATER CAN BE SQUEEZED OUT OF THE BALL, IT IS TOO WET FOR PROPER COMPACTION. PLACE FILL MATERIAL IN 6 TO 8 INCH CONTINUOUS LAYERS OVER THE ENTIRE LENGTH OF THE FILL AREA AND COMPACT IT. COMPACTION MAY BE OBTAINED BY ROUTING THE CONSTRUCTION HAULING EQUIPMENT OVER THE FILL SO THAT THE ENTIRE SURFACE OF EACH LAYER IS TRAVERSED BY AT LEAST ONE WHEEL OR TREAD TRACK OF HEAVY EQUIPMENT, OR A COMPACTOR MAY BE USED. CONSTRUCT THE EMBANKMENT TO AN ELEVATION 10 PERCENT HIGHER THAN THE DESIGN HEIGHT TO ALLOW FOR SETTLING.
4. EMBANKMENT- TAKE FILL MATERIAL FROM THE APPROVED AREAS SHOWN ON THE PLANS.IT SHOULD BE CLEAN MINERAL SOIL, FREE OF ROOTS, WOODY VEGETATION, ROCKS, AND OTHER OBJECTIONABLE MATERIAL. SCARIFY AREAS ON WHICH FILL IS TO BE PLACED BEFORE PLACING FILL. THE FILL MATERIAL MUST CONTAIN SUFFICIENT MOISTURE SO IT CAN BE FORMED BY HAND INTO A BALL WITHOUT CRUMBLING. IF WATER CAN BE SQUEEZED OUT OF THE BALL, IT IS TOO WET FOR PROPER COMPACTION. PLACE FILL MATERIAL IN 6 TO 8 INCH CONTINUOUS LAYERS OVER THE ENTIRE LENGTH OF THE FILL AREA AND COMPACT IT. COMPACTION MAY BE OBTAINED BY ROUTING THE CONSTRUCTION HAULING EQUIPMENT OVER THE FILL SO THAT THE ENTIRE SURFACE OF EACH LAYER IS TRAVERSED BY AT LEAST ONE WHEEL OR TREAD TRACK OF HEAVY EQUIPMENT, OR A COMPACTOR MAY BE USED. CONSTRUCT THE EMBANKMENT TO AN ELEVATION 10 PERCENT HIGHER THAN THE DESIGN HEIGHT TO ALLOW FOR SETTLING.
5. CONDUIT SPILLWAYS- SECURELY ATTACH THE RISER TO THE BARREL OR BARREL STUB TO MAKE A WATERTIGHT STRUCTURAL CONNECTION. SECURE ALL CONNECTIONS BETWEEN BARREL SECTIONS BY APPROVED WATERTIGHT ASSEMBLIES. PLACE THE BARREL AND RISER ON A FIRM, SMOOTH FOUNDATION OF IMPERVIOUS SOIL. DO NOT USE PERVIOUS MATERIAL SUCH AS SAND, GRAVEL, OR CRUSHED STONE AS BACKFILL AROUND THE PIPE OR ANTI-SEEP COLLARS. PLACE THE FILL MATERIAL AROUND THE PIPE SPILLWAY IN 4-INCH LAYERS, AND COMPACT IT UNDER AND AROUND THE PIPE TO AT LEAST THE SAME DENSITY AS THE ADJACENT EMBANKMENT. CARE MUST BE TAKEN NOT TO RAISE THE PIPE FROM FIRM CONTACT WITH ITS FOUNDATION WHEN COMPACTING UNDER THE PIPE HAUNCHES. PLACE A MINIMUM DEPTH OF 2 FEET OF COMPACTED BACKFILL OVER THE PIPE SPILLWAY BEFORE CROSSING IT WITH CONSTRUCTION EQUIPMENT. ANCHOR THE RISER IN PLACE BY CONCRETE OR OTHER SATISFACTORY MEANS TO PREVENT FLOTATION. IN NO CASE SHOULD THE PIPE CONDUIT BE INSTALLED BY CUTTING A TRENCH THROUGH THE DAM AFTER THE EMBANKMENT IS COMPLETE.
6. EMERGENCY SPILLWAY- INSTALL THE EMERGENCY SPILLWAY IN UNDISTURBED SOIL. THE ACHIEVEMENT OF PLANNED ELEVATIONS, GRADE, DESIGN WIDTH, AND ENTRANCE AND EXIT CHANNEL SLOPES ARE CRITICAL TO THE SUCCESSFUL OPERATION OF THE EMERGENCY SPILLWAY.
7. INLETS- DISCHARGE WATER INTO THE BASIN IN A MANNER TO PREVENT EROSION. USE DIVERSIONS WITH OUTLET PROTECTION TO DIVERT SEDIMENT-LADEN WATER TO THE UPPER END OF THE POOL AREA TO IMPROVE BASIN TRAP EFFICIENCY (REFERENCES: RUNOFF CONTROL MEASURES AND OUTLET PROTECTION).
8. EROSION CONTROL- CONSTRUCT THE STRUCTURE SO THAT THE DISTURBED AREA IS MINIMIZED. DIVERT SURFACE WATER AWAY FROM BARE AREAS. COMPLETE THE EMBANKMENT BEFORE THE AREA IS CLEARED. STABILIZE THE EMERGENCY SPILLWAY EMBANKMENT AND ALL OTHER DISTURBED AREAS ABOVE THE CREST OF THE PRINCIPAL SPILLWAY IMMEDIATELY AFTER CONSTRUCTION (REFERENCES: SURFACE STABILIZATION).
9. INSTALL POROUS BAFFLES AS SPECIFIED IN PRACTICE 6.65, POROUS BAFFLES.
10. SAFETY- SEDIMENT BASINS MAY ATTRACT CHILDREN AND CAN BE DANGEROUS. AVOID STEEP SIDE SLOPES, AND FENCE AND MARK BASINS WITH WARNING SIGNS IF TRESPASSING IS LIKELY. FOLLOW ALL STATE AND LOCAL REQUIREMENTS.

MAINTENANCE

1. INSPECT TEMPORARY SEDIMENT BASINS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENT AND REPAIR IMMEDIATELY. REMOVE SEDIMENT AND RESTORE THE BASIN TO ITS ORIGINAL DIMENSIONS WHEN IT ACCUMULATES TO ONE-HALF THE DESIGN DEPTH. PLACE REMOVED SEDIMENT IN AN AREA WITH SEDIMENT CONTROLS.
2. CHECK THE EMBANKMENT, SPILLWAYS, AND OUTLET FOR EROSION DAMAGE, AND INSPECT THE EMBANKMENT FOR PIPING AND SETTLEMENT. MAKE ALL NECESSARY REPAIRS IMMEDIATELY. REMOVE ALL TRASH AND OTHER DEBRIS FROM THE RISER AND POOL AREA.

TEMPORARY BAFFLE

CONSTRUCTION SPECIFICATION

1. GRADE THE BASIN SO THAT THE BOTTOM IS LEVEL (FRONT TO BACK & SIDE TO SIDE).
2. INSTALL POSTS OR SAWHORSES THE WIDTH OF THE SEDIMENT TRAP.
3. STEEL POSTS SHOULD BE DRIVEN TO A DEPTH OF 24", SPACED A MAXIMUM OF 4' APART & INSTALLED ON THE SIDES OF THE BASIN AS WELL. THE TOP OF THE FABRIC SHOULD BE 6" HIGHER THAN THE INVERT OF THE SPILLWAY. TOPS OF BAFFLES SHOULD BE 2" LOWER THAN THE TOP OF THE BERMS.
4. INSTALL AT LEAST (3) ROWS OF BAFFLES BETWEEN THE INLET & OUTLET DISCHARGE POINT. BASINS 20' IN LENGTH MAY USE (2) BAFFLES.
5. WHEN USING POSTS, ADD SUPPORT WIRE OR ROPE ACROSS THE TOP OF THE MEASURE TO PREVENT SAGGING.
6. WRAP POROUS MATERIAL (JUTE BACKED OR COIR) OVER SAWHORSES OR THE TOP WIRE. HAMMER REBAR INTO THE SAWHORSE LEGS FOR ANCHORING. THE FABRIC SHOULD HAVE 5% TO 10% OPENINGS IN THE WEAVE. ATTACH FABRIC TO A ROPE AND A SUPPORT STRUCTURE WITH ZIP TIES, WIRE OR STAPLES.
7. THE BOTTOM & SIDES OF THE FABRIC SHOULD BE ANCHORED IN A TRENCH OR PINNED WITH 8" EROSION CONTROL MATTING STAPLES.
8. DO NOT SPLICE FABRIC, BUT USE A CONTINUOUS PIECE ACROSS THE BASIN.

MAINTENANCE

1. INSPECT BAFFLES AT LEAST ONCE A WEEK & AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.
2. BE SURE TO MAINTAIN ACCESS TO BAFFLES. SHOULD THE FABRIC OF THE BAFFLE COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY.
3. REMOVE SEDIMENT DEPOSITS WHEN IT REACHES HALF-FULL TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN & TO EDUCE PRESSURE ON THE BAFFLES. TAKE CARE TO AVOID DAMAGING THE BAFFLES DURING CLEAN OUT. SEDIMENT DEPTH SHOULD NEVER EXCEED HALF THE DESIGN STORAGE DEPTH.
4. AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED, REMOVE ALL BAFFLE MATERIALS & UNSTABLE SEDIMENT DEPOSITS. BRING THE AREA TO GRADE & STABILIZE IT.

No.	Date	Revision

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COMMUNITY CENTER AND GYMNASIUM FOR
Alice F. Keene District Park
4561 County Home Road, Greenville, NC 27858

Project No. 22207
Date: December 1, 2022
Drawing no. C 308

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GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT

Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction.

SECTION E: GROUND STABILIZATION

Required Ground Stabilization Timeframes		
Site Area Description	**Stabilize within this many calendar days after ceasing land disturbance**	**Timeframe variations**
(a) Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b) High Quality Water (HQW) Zones	7	None
(c) Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed
(d) Slopes 3:1 to 4:1	14	-7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed
(e) Areas with slopes flatter than 4:1	14	-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope

Note: After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.

GROUND STABILIZATION SPECIFICATION

Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the techniques in the table below:

Temporary Stabilization	Permanent Stabilization
• Temporary grass seed covered with straw or other mulches and tackifiers • Hydroseeding • Rolled erosion control products with or without temporary grass seed • Appropriately applied straw or other mulch • Plastic sheeting	• Permanent grass seed covered with straw or other mulches and tackifiers • Geotextile fabrics such as permanent soil reinforcement matting • Hydroseeding • Shrubs or other permanent plantings covered with mulch • Uniform and evenly distributed ground cover sufficient to restrain erosion • Structural methods such as concrete, asphalt or retaining walls • Rolled erosion control products with grass seed

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

1. Select flocculants that are appropriate for the soils being exposed during construction, selecting from the *NC DWR List of Approved PAMS/Flocculants*.
2. Apply flocculants at or before the inlets to Erosion and Sediment Control Measures.
3. Apply flocculants at the concentrations specified in the *NC DWR List of Approved PAMS/Flocculants* and in accordance with the manufacturer's instructions.
4. Provide ponding area for containment of treated Stormwater before discharging offsite.
5. Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures.

EQUIPMENT AND VEHICLE MAINTENANCE

1. Maintain vehicles and equipment to prevent discharge of fluids.
2. Provide drip pans under any stored equipment.
3. Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.
4. Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).
5. Remove leaking vehicles and construction equipment from service until the problem has been corrected.
6. Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

1. Never bury or burn waste. Place litter and debris in approved waste containers.
2. Provide a sufficient number and size of waste containers (e.g dumpster, trash receptacle) on site to contain construction and domestic wastes.
3. Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
4. Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland.
5. Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
6. Anchor all lightweight items in waste containers during times of high winds.
7. Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
8. Dispose waste off-site at an approved disposal facility.
9. On business days, clean up and dispose of waste in designated waste containers.

PAINT AND OTHER LIQUID WASTE

1. Do not dump paint and other liquid waste into storm drains, streams or wetlands.
2. Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
3. Contain liquid wastes in a controlled area.
4. Containment must be labeled, sized and placed appropriately for the needs of site.
5. Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites.

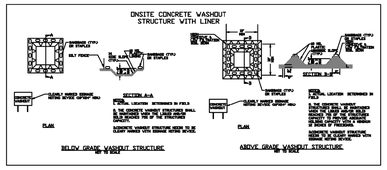
PORTABLE TOILETS

1. Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags.
2. Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas.
3. Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace with properly operating unit.

EARTHEN STOCKPILE MANAGEMENT

1. Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably available.
2. Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
3. Provide stable stone access point when feasible.
4. Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.

NORTH CAROLINA *Environmental Quality*



CONCRETE WASHOUTS

1. Do not discharge concrete or cement slurry from the site.
2. Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
3. Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within lot perimeter silt fence.
4. Install temporary concrete washouts per local requirements, where applicable. If an alternate method or product is to be used, contact your approval authority for review and approval. If local standard details are not available, use one of the two types of temporary concrete washouts provided on this detail.
5. Do not use concrete washouts for dewatering or storing defective curb or sidewalk sections. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and removed from project.
6. Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum, install protection of storm drain inlet(s) closest to the washout which could receive spills or overflow.
7. Locate washouts in an easily accessible area, on level ground and install a stone entrance pad in front of the washout. Additional controls may be required by the approving authority.
8. Install at least one sign directing concrete trucks to the washout within the project limits. Post signage on the washout itself to identify this location.
9. Remove leavings from the washout when at approximately 75% capacity to limit overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary products, follow manufacturer's instructions.
10. At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout.

HERBICIDES, PESTICIDES AND RODENTICIDES

1. Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions.
2. Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
3. Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water or surface water. If a spill occurs, clean area immediately.
4. Do not stockpile these materials onsite.

HAZARDOUS AND TOXIC WASTE

1. Create designated hazardous waste collection areas on-site.
2. Place hazardous waste containers under cover or in secondary containment.
3. Do not store hazardous chemicals, drums or bagged materials directly on the ground.

NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

EFFECTIVE: 04/01/19

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION A: SELF-INSPECTION

Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection may be delayed until the next business day on which it is safe to perform the inspection. In addition, when a storm event of equal to or greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be performed upon the commencement of the next business day. Any time when inspections were delayed shall be noted in the Inspection Record.

Inspect	Frequency (during normal business hours)	Inspection records must include:
(1) Rain gauge maintained in good working order	Daily	Daily rainfall amounts. If no daily rain gauge observations are made during weekend or holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those un-attended days (and this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as "zero." The permittee may use another rain-monitoring device approved by the Division.
(2) E&SC Measures	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the measures inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Indication of whether the measures were operating properly, 5. Description of maintenance needs for the measure, 6. Description, evidence, and date of corrective actions taken.
(3) Stormwater discharge outfalls (SDOs)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the discharge outfalls inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration, 5. Indication of visible sediment leaving the site, 6. Description, evidence, and date of corrective actions taken.
(4) Perimeter of site	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If visible sedimentation is found outside site limits, then a record of the following shall be made: 1. Actions taken to clean up or stabilize the sediment that has left the site limits, 2. Description, evidence, and date of corrective actions taken, and 3. An explanation as to the actions taken to control future releases.
(5) Streams or wetlands onsite or offsite (where accessible)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If the stream or wetland has increased visible sedimentation or a stream has visible increased turbidity from the construction activity, then a record of the following shall be made: 1. Description, evidence and date of corrective actions taken, and 2. Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item (2)(a) of this permit of this permit.
(6) Ground stabilization measures	After each phase of grading	1. The phase of grading (installation of perimeter E&SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover). 2. Documentation that the required ground stabilization measures have been provided within the required timeframe or an assurance that they will be provided as soon as possible.

NOTE: The rain inspection resets the required 7 calendar day inspection requirement.

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING

1. E&SC Plan Documentation

The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&SC plan shall be documented in the manner described:

Item to Document	Documentation Requirements
(a) Each E&SC Measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&SC Plan.	Initial and date each E&SC Measure on a copy of the approved E&SC Plan or complete, date and sign an inspection report that lists each E&SC Measure shown on the approved E&SC Plan. This documentation is required upon the initial installation of the E&SC Measures or if the E&SC Measures are modified after initial installation.
(b) A phase of grading has been completed.	Initial and date a copy of the approved E&SC Plan or complete, date and sign an inspection report to indicate completion of the construction phase.
(c) Ground cover is located and installed in accordance with the approved E&SC Plan.	Initial and date a copy of the approved E&SC Plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.
(d) The maintenance and repair requirements for all E&SC Measures have been performed.	Complete, date and sign an inspection report.
(e) Corrective actions have been taken to E&SC Measures.	Initial and date a copy of the approved E&SC Plan or complete, date and sign an inspection report to indicate the completion of the corrective action.

2. Additional Documentation

In addition to the E&SC Plan documents above, the following items shall be kept on the site

and available for agency inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:

(a) This general permit as well as the certificate of coverage, after it is received.

(b) Records of inspections made during the previous 30 days. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.

(c) All data used to complete the Notice of Intent and older inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING

1. Occurrences that must be reported

Permittees shall report the following occurrences:

(a) Visible sediment deposition in a stream or wetland.

(b) Oil spills if:
- They are 25 gallons or more,
- They are less than 25 gallons but cannot be cleaned up within 24 hours,
- They cause sheen on surface waters (regardless of volume), or
- They are within 100 feet of surface waters (regardless of volume).

(a) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.

(b) Anticipated bypasses and unanticipated bypasses.

(c) Noncompliance with the conditions of this permit that may endanger health or the environment.

2. Reporting Timeframes and Other Requirements

After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Division's Emergency Response personnel at (800) 662-7956, (800) 858-0368 or (919) 733-3300.

Occurrence	Reporting Timeframes (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	• ***Within 24 hours***, an oral or electronic notification. • ***Within 7 calendar days***, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis. • If the stream is named on the NC 303(d) list as impaired for sediment-related causes, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions.
(b) Oil spills and release of hazardous substances per Item 1(b)-(c) above	• ***Within 24 hours***, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.
(c) Anticipated bypasses [40 CFR 122.41(m)(3)]	• ***A report at least ten days before the date of the bypass, if possible***. The report shall include an evaluation of the anticipated quality and effect of the bypass.
(d) Unanticipated bypasses [40 CFR 122.41(m)(3)]	• ***Within 24 hours***, an oral or electronic notification. • ***Within 7 calendar days,*** a report that includes an evaluation of the quality and effect of the bypass.
(e) Noncompliance with the conditions of this permit that may endanger health or the environment[40 CFR 122.41(l)(7)]	• ***Within 24 hours***, an oral or electronic notification. • ***Within 7 calendar days,*** a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. [40 CFR 122.41(l)(6). • Division staff may waive the requirement for a written report on a case-by-case basis.

NORTH CAROLINA *Environmental Quality*

NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

EFFECTIVE: 04/01/19

309.1 GENERAL EROSION CONTROL NCG01 NOTES

SCALE: NTS

No.	Date	Revision

Hite associates
ARCHITECTURE / PLANNING / TECHNOLOGY
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COMMUNITY CENTER AND GYMNASIUM FOR
Alice F. Keene District Park
4561 County Home Road, Greenville, NC 27858

CIVIL ENGINEERING CONSULTANT:
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J. STEPHEN JANOWSKI 032451 REGISTERED PROFESSIONAL ENGINEER

Project No. 22207
Date: December 1, 2022
Drawing no. C 309

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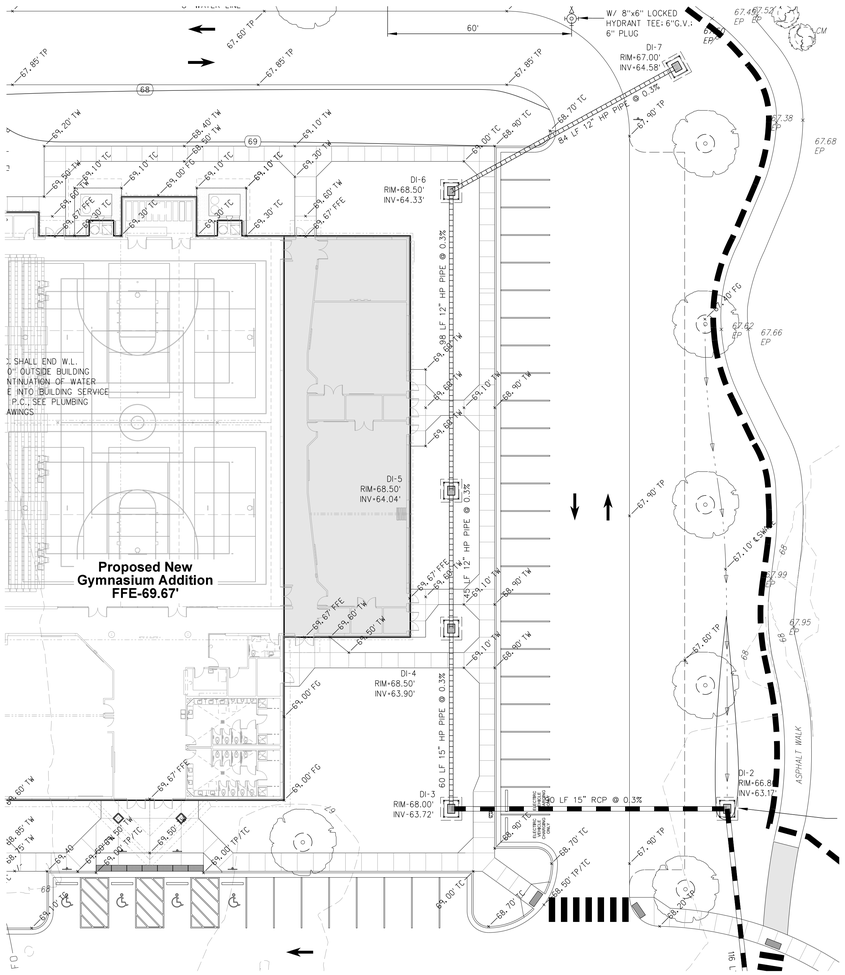
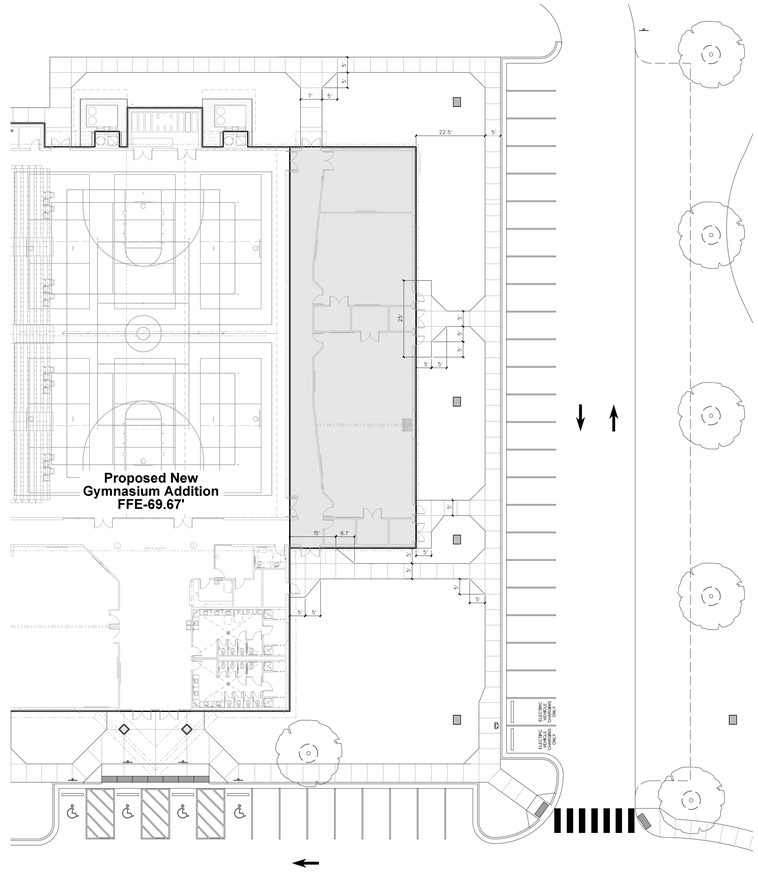


901.2 SITE GRADING & DRAINAGE PLAN (ALTERNATE)

SCALE: 1" = 20'-0"

20 0 20 40 60 FEET

GRAPHIC SCALE



901.1 SITE GEOMETRY PLAN (ALTERNATE)

SCALE: 1" = 20'-0"

20 0 20 40 60 FEET

GRAPHIC SCALE

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2600 Meridian Drive / Greenville, NC 27834 / tel (252) 757-0333

No.	Date	Revision

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COMMUNITY CENTER AND GYMNASIUM FOR

Alice F. Keene District Park

4561 County Home Road, Greenville, NC 27858

Project No. 22207

Date: December 1, 2022

Drawing no. C 901

ALTERNATE BID

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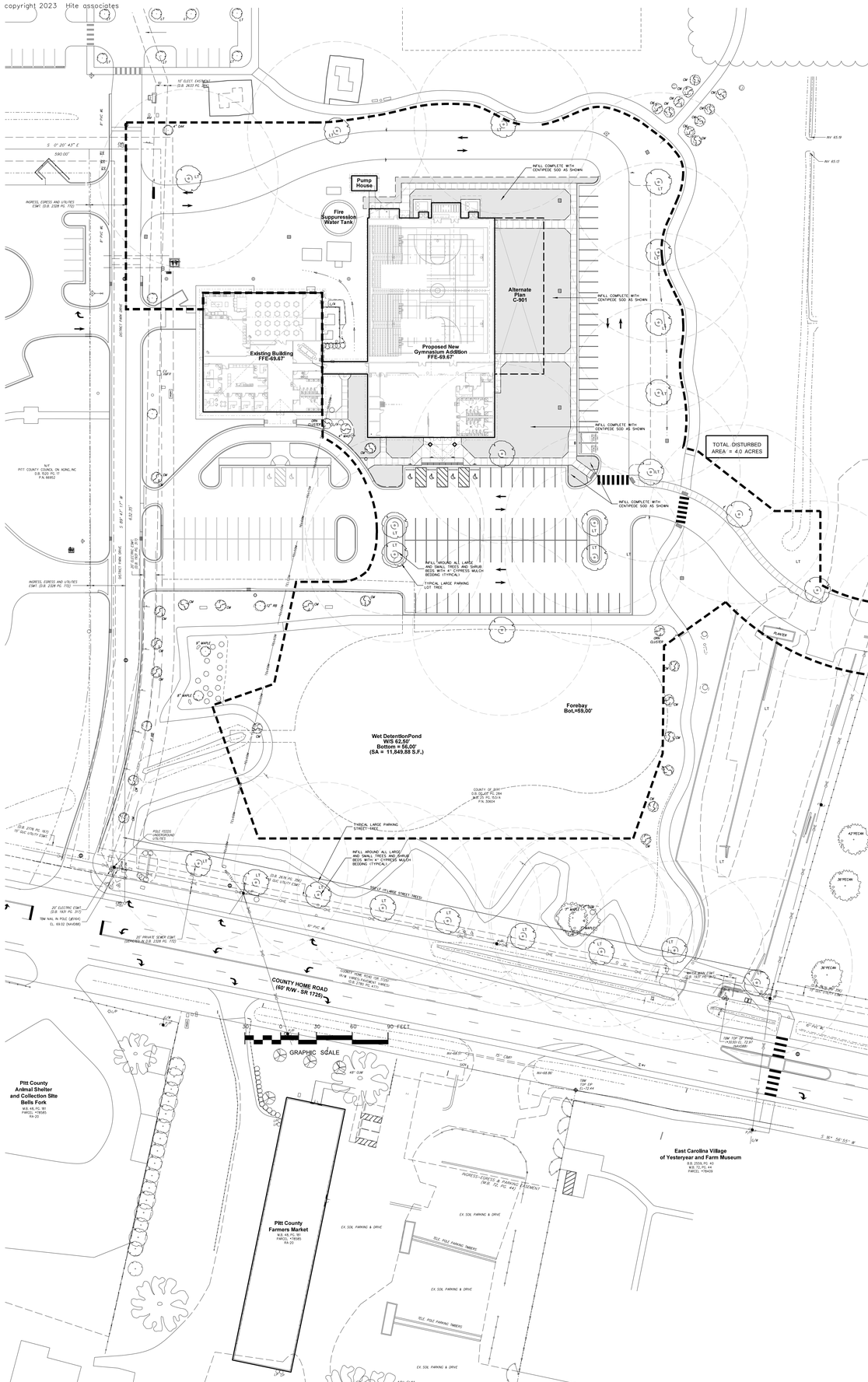
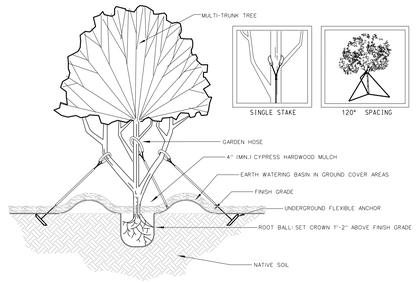
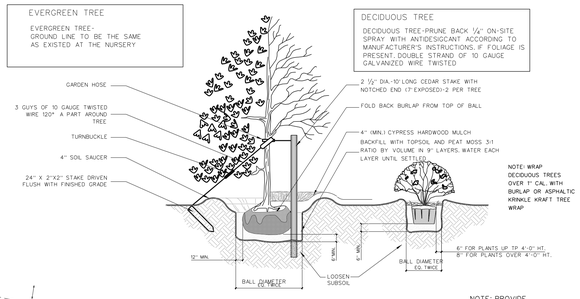




MULTI-TRUNK STAKING



PLANTING DETAIL SINGLE TRUNK AND SHRUB

NOTE: PROVIDE LANDSCAPE FABRIC ALL BEDS AND PLANTED AREAS

101.2 PLANTING DETAILS
N.T.S.

Plant Schedule Minimum Site Vegetation (Project Area = 7.0 Acres)

Required Vegetation: (5) Large Tree (10) Small Trees and (25) small shrubs per Acre/Tract x 2.0 =

Site Vegetation Requirements (per acre): 7 ACRES

35 Large Trees
70 Small Trees
175 Shrubs

NOTE: THIS PROPERTY CONTAINS 50+ ACRES OF DENSE HEAVILY FORESTED WOODS AND SHALL CONSITUUTE FOR A ANY REMAINING REQUIRED SITE VEGETATION, SEE OVERALL SITE PLAN C-001.

Required Street Yard Vegetation (County Home Road)

2 large Trees or 4 Small Trees per 100 LF Road Frontage
550 LF / 100 = 5.5 X 2 = 11 Large Trees
(Includes (2) - 4" Maplle Trees)

2 large Trees or 4 Small Trees per 100 LF Road Frontage
350 LF / 100 = 3.5 X 2 = 7 Large Trees

Total Street Yard Vegetation PROVIDED = 18 Large Trees

PLANTING LEGEND ALL VEGETATION PROVIDED

Symbol	Key	Qty	Variety Species	Type
	LT	24	RED MAPLE Acer rubrum 'Red maple'	Large deciduous Site Tree 2" Cal 8-10 feet tall
			All Sodded Turf Areas CentipedeSod	

GENERAL SITE VEGETATION DATA

Unless otherwise provided, all plant materials shall meet the following minimum size standards at the time of planting and/or qualification in the case of existing materials:

Planting Material Type	Minimum Planting Size
Large Tree	
single stem	10 feet (height) and 2" caliper
multi-stem clump	10 feet (height)
Small Tree	8 feet (height) and 1"" caliper
Shrub	18 inches (height), except as provided under section 9-4-267(a)

Existing substitute vegetation materials have been noted including their specific location(s), type(s) and size(s).

Existing vegetation to remain to be protected from site development activity in accordance with section 9-4-265(f)

No portion of any parking area, including any driveway, parking space, drive isle or turning area, shall be located more than thirty (30) feet from an on-site small tree or more than seventy-five (75) feet from an on-site large tree. For purposes of this section, the measurement shall be from the farthest edge of the subject area to the center of the base of the closest qualifying tree.

Site Plan approval from the respective easement holder shall be construed as approval of all noted and/or illustrated encroachments as shown on this plan.

All open space areas that are not landscaped shall be seeded with lawn or other ground cover.

The following vegetation materials, as listed by common name and shall constitute not more than 25% of the total requirement for the specific category:

Large category tree- River Birch

Small tree category- Aristocrat pear, Bradford Pear, Capital Pear, Cleveland select Pear

Evergreen Shrub category- Red Tip Photinia

Parking area screening vegetation shall be in accordance with section 9-4-268(I)(9) of the City Code.

Dumpster Pad screening shall be enclosed on three (3) sides in accordance with Section 9-4-268(h)

SITE VEGETATION REQUIREMENTS (per acre):

1. 5 Large Trees; and
2. 10 Small Trees; and
3. 25 Shrubs

MINIMUM 3' CLEARANCE MUST BE MAINTAINED AROUND ALL FIRE HYDRANTS IN ACCORDANCE WITH STATE FIRE CODE

NOTICE TO ALL LANDOWNERS/DEVELOPERS

Wetlands are valuable natural resources that provide important ecological functions. Be advised that activities in wetlands are regulated by the federal Government under Section 404 of the Clean Water Act. Jurisdictional wetland may include the pine-shrub pocosins that are common in the region. If any private landowner, developer, corporation, or other person proposes to undertake construction/filling activities in or near a lake, stream, creek, tributary or any other unnamed body of water including its adjacent wetlands, federal permit authorization may be required from the U.S. Army Corps of Engineers prior to commencement of any such land-disturbing activities. Please contact Mr. Henry Wicker, Field coordinator, Washington, NC Corps of Engineers regulatory field Office, telephone (252) 975-5811, for a wetland determination and information regarding specific permit requirements.

NOTES:

1. LANDSCAPE CONTRACTOR SHALL MAINTAIN PLANTS AS REQUIRED THROUGH 1 YEAR WARRANTY PERIOD, AND SHALL REPLACE ANY PLANTS AT END OF WARRANTY PERIOD AS REQUIRED AT NO CHARGE TO OWNER.
2. ALL MATERIAL TO BE INSTALLED AS DETAILED AND PER THE AMERICAN STANDARD FOR NURSERY STOCK, ANSI Z60.1-2004
3. ALL SHRUB MATERIAL SHALL BE 3 GALLON MINIMUM UNLESS OTHERWISE NOTED ALL LARGE TREES SHALL BE 8' TO 10' TALL WITH A 2" CALIPER TRUNK DIAMETER MINIMUM AT TIME OF PLANTING. ALL SMALL TREES SHALL BE 6' TO 8' TALL WITH A 1 1/2" CALIPER TRUNK DIAMETER MINIMUM AT TIME OF PLANTING.
4. ALL CYPRESS HARDWOOD MULCH SHALL BE 4" THICK MINIMUM.
5. LANDSCAPE CONTRACTOR SHALL REMOVE ALL STAKES, WIRE TIES AND HOSES AFTER 1 YEAR.
6. THE LANDSCAPE CONTRACTOR SHALL VERIFY ALL QUANTITIES PRIOR TO INSTALLATION OF ALL PLANT MATERIAL.
7. VEGETATION INPSECTION WILL BE REQUIRED PRIOR TO ISSUANCE OF FINAL C/O.

101.1 SITE LANDSCAPING PLAN
SCALE: 1" = 40'-0"

40 0 40 80 120 FEET

GRAPHIC SCALE

No.	Date	Revision

Hite associates
ARCHITECTURE / PLANNING / TECHNOLOGY
2600 Meridian Drive / Greenville, NC 27834 / tel (252) 757-0333

HITE GRAY HITE ASSOCIATES, P.C. CORPORATE SEAL NUMBER 4 18 REGISTERED ARCHITECTURAL CORPORATION GREENVILLE, NC

JAMES GRAY HITE REGISTERED ARCHITECT 3753 GREENVILLE, NC

COMMUNITY CENTER AND GYMNASIUM FOR

Alice F. Keene District Park

4561 County Home Road, Greenville, NC 27858

Project No. 22207

Date: December 1, 2022

Drawing no. L 101

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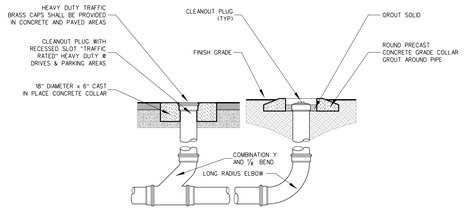

NOTE: CLEANOUT TO BE OF SAME MATERIAL AS PIPE U.O.N.

001.2 CLEAN-OUT DETAIL
SCALE: NONE

Roof Plan Notes

1) THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL VERTICAL ROOF DRAIN LEADERS AND HORIZONTAL DRAINAGE PIPING SYSTEMS TO STORM SEWER CATCH BASINS. PIPE AROUND STRUCTURE AS REQUIRED.

2) HORIZONTAL DRAINAGE PIPING BELOW GRADE SHALL BE SDR 35 PIPE. VERIFY ALL INVERT ELEVATIONS AND PIPE SLOPES PRIOR TO INSTALLATION.

3) PROVIDE CLEANOUTS AT ALL PIPING ELBOWS, AT 80' INTERVALS FOR HORIZONTAL DRAINAGE PIPES 4" TO 6" NOMINAL DIAMETER, AT 100' INTERVALS FOR HORIZONTAL DRAINAGE PIPES 8" AND ABOVE.

4) REFER TO PLUMBING AND MECHANICAL PLANS FOR ROOF PENETRATION LOCATIONS. GENERAL CONTRACTOR IS RESPONSIBLE FOR FLASHING ALL ROOF PENETRATIONS BY OTHER PRIME CONTRACTORS.

5) SANITARY SEWER HAS RIGHT-OF-WAY OVER STORM DRAINAGE PIPING; REFER TO PLUMBING DRAWINGS. CONSTRUCT CONCRETE/MASONRY CONFLICT / JUNCTION BOX AS REQUIRED. SEE PLUMBING AND CIVIL DRAWINGS.

6) COORDINATE CONDENSATE PIPING CONNECTIONS TO STORM DRAINAGE; REFER TO HVAC DRAWINGS.

7) GENERAL CONTRACTOR TO PRIME AND PAINT (2) COATS ALL VENTS, PIPES, AND FLUES EXTENDING THROUGH ROOF, MATCHING COLOR. CHEMICALLY CLEAN METAL AND PRIME GALVANIZED METAL WITH SPECIAL PRIMER AS SPECIFIED.

8) PAINT ALL EXPOSED PVC BOOTS AND ROOF DRAIN LEADER AT GUTTER BOOT TRANSITION TO MATCH METAL GUTTER.

9) SLOPE ALL HORIZONTAL ROOF DRAINAGE LEADERS AS REQUIRED (1.0% SLOPE MIN.)

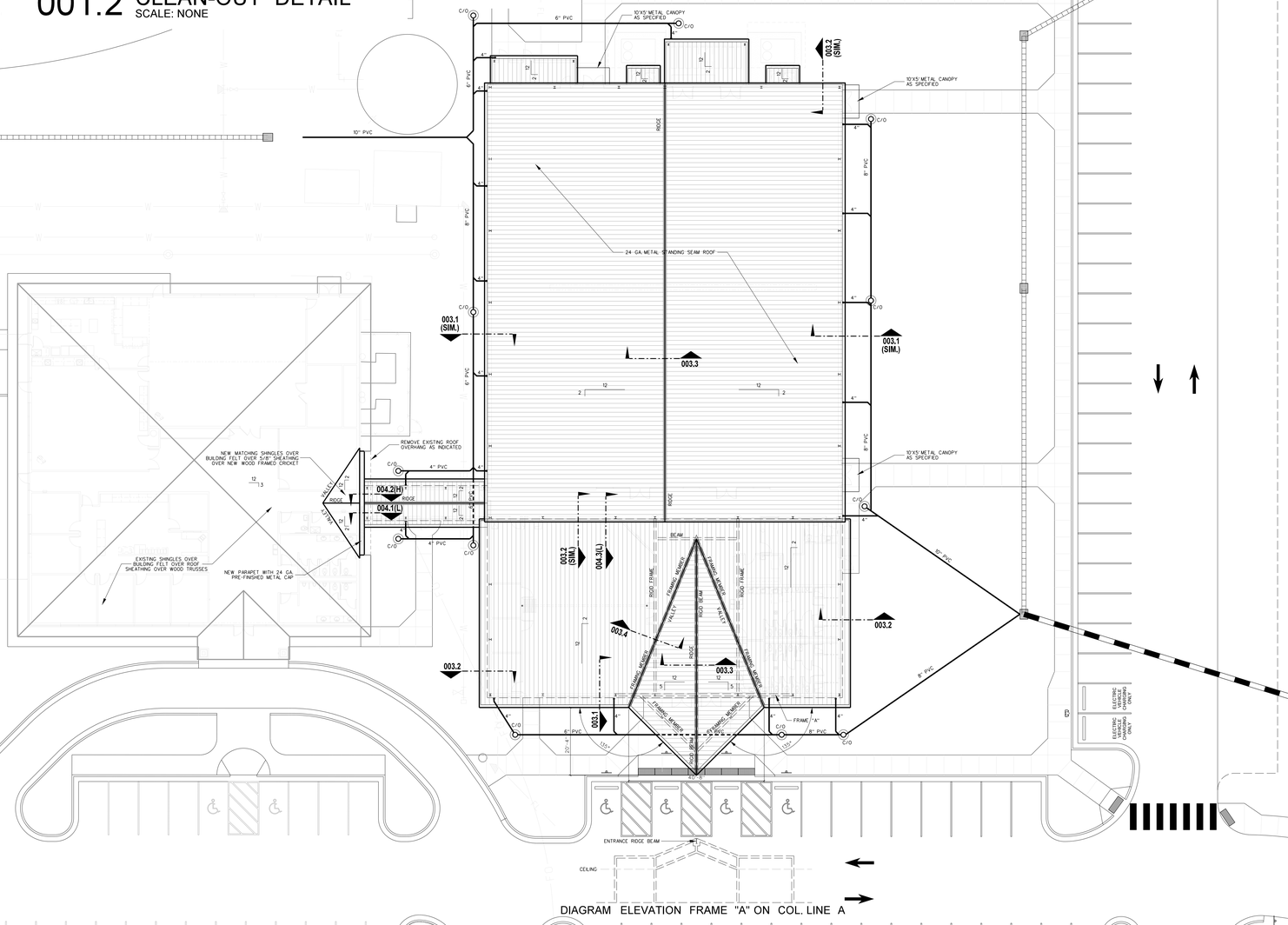

DIAGRAM ELEVATION FRAME "A" ON COL. LINE A

001.1 ROOF AND ROOF DRAINAGE PLAN
SCALE: 1/16" = 1'-0"

GENERAL NOTES:

(1) CMU WALLS WHERE INDICATED SHALL BE RUN SOLID TO BOTTOM OF DECK, GROUTED SOLID TO DECK. ALL OTHER CMU WALLS, UNLESS OTHERWISE NOTED, SHALL BE RUN TO FULL BLOCK COURSE ABOVE CEILING. UNBRACED SECTIONS OF LESS-THAN-FULL-HEIGHT WALLS SHALL BE BRACED TO ROOF. SEE STRUCTURAL DRAWINGS.

(2) CMU WALL INTERSECTIONS SHALL BE BONDED WITH HOT DIPPED GALVANIZED HARDWARE CLOTH EACH COURSE, AND PREFORMED "T" HORIZONTAL REINFORCING AS SPECIFIED AT 16" ON CENTER.

(3) PROVIDE WALL CONTROL AND EXPANSION JOINTS WHERE SHOWN AND DETAILED OR IN PRE-APPROVED, ALTERNATING LOCATIONS 32' ON CENTER MAXIMUM. PROVIDE IN ONE SIDE OF EACH OPENING IN MASONRY WALLS-BOTH SIDES IN OPENINGS WITH WIDTH EXCEEDING 5'-0". SEE DETAIL.

(4) PROVIDE WALL EXPANSION JOINTS AT POINTS AND INTERSECTIONS WHERE INDICATED, ½" WIDE, FILLED WITH EXPANSION JOINT MATERIAL AND CAULK, WITH BACKER ROD EACH EXPOSED SIDE.

(5) ALL 90° OUTSIDE CMU CORNERS SHALL HAVE BULLNOSE EDGE UON.

(6) INTERIOR CMU JOINTS SHALL BE TOOLED CONCAVE.

(7) ALL CMU SURFACES TO RECEIVE PAINT OR PLASTER SHALL BE POINTED UP AND PATCHED WITH MORTAR TO ELIMINATE DEPRESSIONS, VOIDS OR OTHER IRREGULARITIES LARGER THAN 3/16" DIAMETER. PAINTER SHALL CAULK SIMILAR DEFECTS LARGER THAN 1/16" DIAMETER AFTER APPLICATION OF BLOCK FILLER. BLOCK FILLER SHALL BE APPLIED IN THICKNESS AND COATS REQUIRED TO ELIMINATE ALL VOIDS AND PINHOLES IN MASONRY SURFACES. FINISH PAINT SHALL BE SPRAY APPLIED, & ROLLED IN.

(8) LAY-IN ACOUSTICAL TILE CEILING SYSTEM SHALL BE 2' x 2' GRID. IN LAYING OUT CEILINGS, COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS, AND AVOID THE USE OF LESS-THAN-HALF SIZE UNITS.

(9) PROVIDE EXTERIOR CONCRETE WALKS AND CONCRETED AREAS WITH EXPANSION AND SCORED JOINTS IN PRE-APPROVED LOCATIONS. EXPANSION JOINTS SHALL BE ½" WIDE WITH EDGES TOOLED TO 1/8" RAD. AND FILLED WITH HOT RUBBER ASPHALT SEALANT - PROVIDE AT ALL CORNERS, INTERSECTIONS, CHANGES IN SLOPE OR DIRECTION, AGAINST EXISTING OR NEW WALLS OR PAVEMENTS, AND AT INTERVALS NOT TO EXCEED 30'. SCORED JOINTS SHALL BE SCORED 1" DEEP MINIMUM AND RADIUSED 1/4", AND SHALL BE PLACED AT INTERVALS NOT TO EXCEED 5 FEET.

(10) GENERAL CONTRACTOR SHALL CONFIRM CASEWORK BUILT-INS AND ACCESSORIES LOCATIONS WITH OTHER PRIME CONTRACTORS TO COORDINATE INSTALLATION OF PLUMBING, MECHANICAL, AND ELECTRICAL FIXTURES.

QUALITY CONTROL:

(1) CONSTRUCT SAMPLE 4' x 4' WALL PANEL WITH INSULATION IN PLACE, SHOWING EXTERIOR BRICK AND INTERIOR BLOCK WORKMANSHIP. APPROVED PANEL WILL BE USED AS STANDARD OF QUALITY REQUIRED THROUGHOUT.

(2) COMPLETE CONSTRUCTION OF ONE EACH OF THE FOLLOWING IS REQUIRED FOR ARCHITECTS APPROVAL. APPROVED CONSTRUCTION IN EACH CASE WILL BE USED AS STANDARD OF QUALITY REQUIRED THROUGHOUT.

- A. WINDOW SECTION, FITTED AND CAULKED.
- B. ROOF OVERHANG WITH GUTTER.
- C. ROOF COPING SECTIONS (2 WITH JOINT).
- D. CLASSROOM: CARPET, RUBBER BASE, PAINTING/STAINING, MARKERBOARDS AND TACKBOARDS, CEILING.

(3) SEE SPECIFICATIONS FOR ALLOWABLE CONSTRUCTION TOLERANCES. THESE WILL BE CHECKED AND ENFORCED.

No.	Date	Revision

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ARCHITECTURE / PLANNING / TECHNOLOGY
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HITE ASSOCIATES, P.A. — ARCHITECTURAL CORPORATION — REGISTERED — CERTIFICATE NUMBER 4,418 — STATE OF NORTH CAROLINA — GREENVILLE

JAMES GRAY HITE — REGISTERED — ARCHITECT — 3754 — GREENVILLE

COMMUNITY CENTER AND GYMNASIUM FOR

Alice F. Keene District Park

4561 County Home Road, Greenville, NC 27858

Project No. 22207

Date: December 1, 2022

Drawing no. A 001 BASE BID

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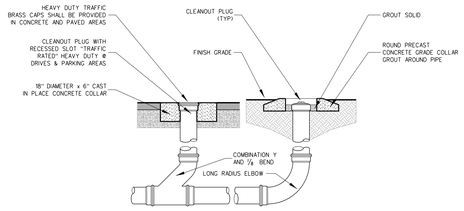

NOTE: CLEANOUT TO BE OF SAME MATERIAL AS PIPE U.O.N.

002.2 CLEAN-OUT DETAIL
SCALE: NONE

Roof Plan Notes

1) THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL VERTICAL ROOF DRAIN LEADERS AND HORIZONTAL DRAINAGE PIPING SYSTEMS TO STORM SEWER CATCH BASINS. PIPE AROUND STRUCTURE AS REQUIRED.

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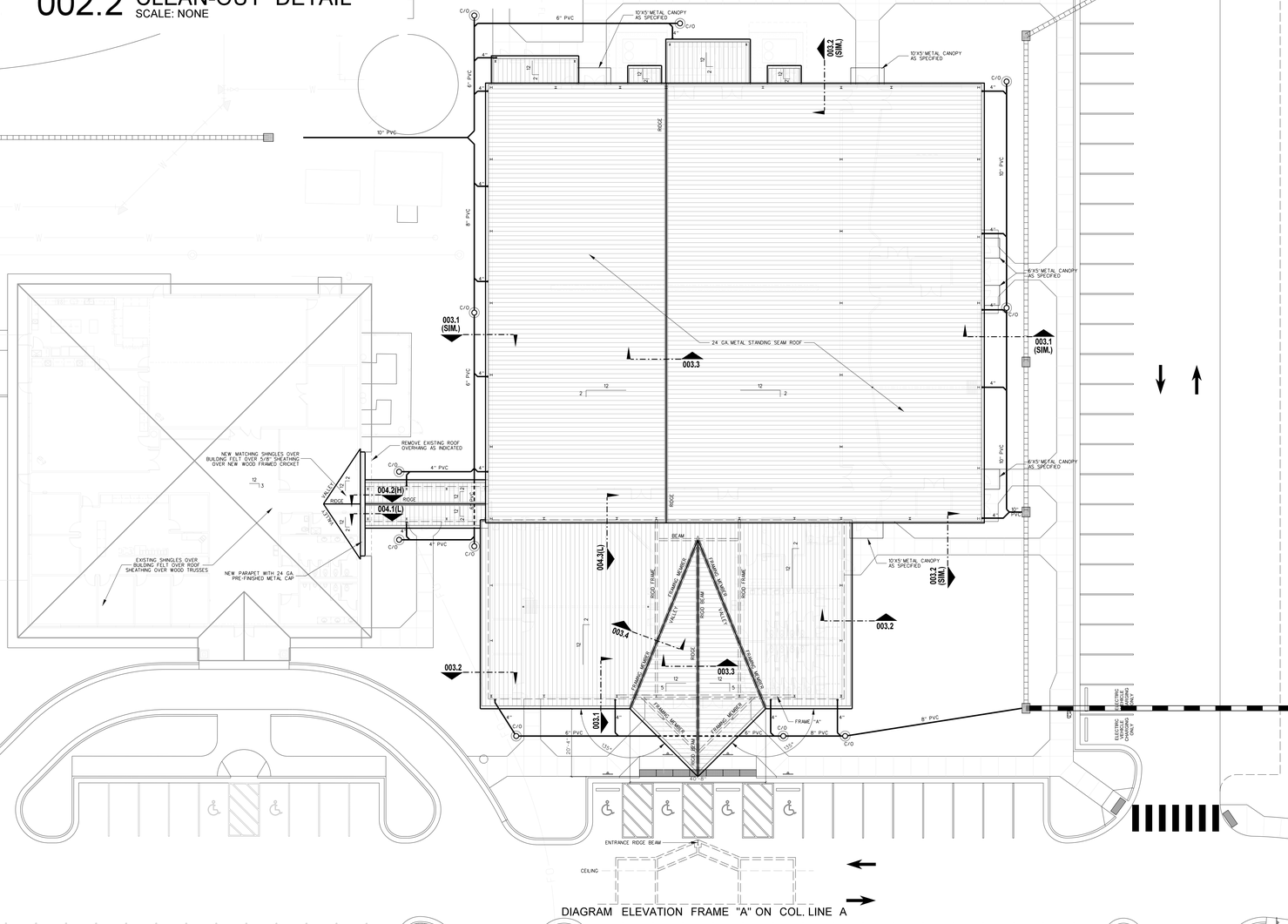

DIAGRAM ELEVATION FRAME "A" ON COL. LINE A

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

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(3) SEE SPECIFICATIONS FOR ALLOWABLE CONSTRUCTION TOLERANCES. THESE WILL BE CHECKED AND ENFORCED.

No.	Date	Revision

Hite associates
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HITE ASSOCIATES, P.A. — CORPORATE NUMBER 4118 — GREENVILLE, NC

JAMES GRAY HITE — REGISTERED ARCHITECT 3754 — GREENVILLE, NC

COMMUNITY CENTER AND GYMNASIUM FOR

Alice F. Keene District Park

4561 County Home Road, Greenville, NC 27858

Project No.	22207
Date:	December 1, 2022
Drawing no.	A 002 ALTERNATE BID

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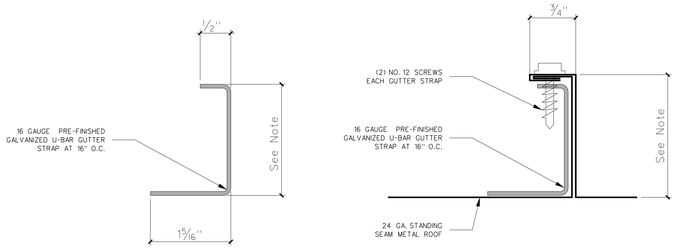
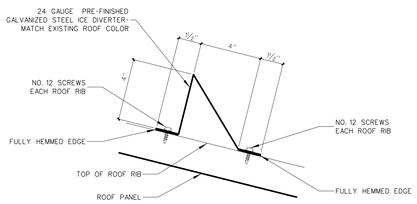
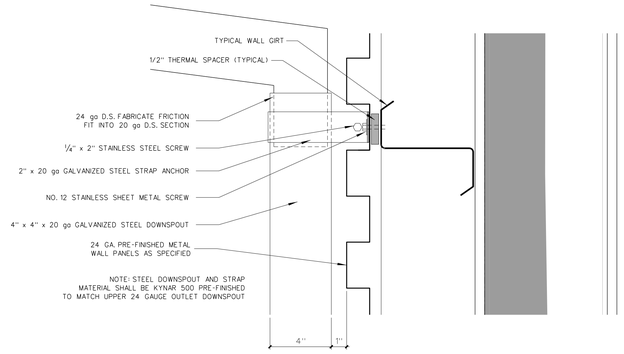


Note: Dimension based on roofing manufacturer provided.

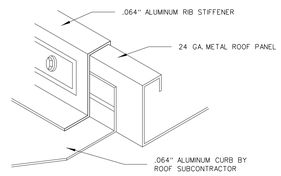
003.11 ROOF GUTTER STRAP DETAIL
SCALE: FULL



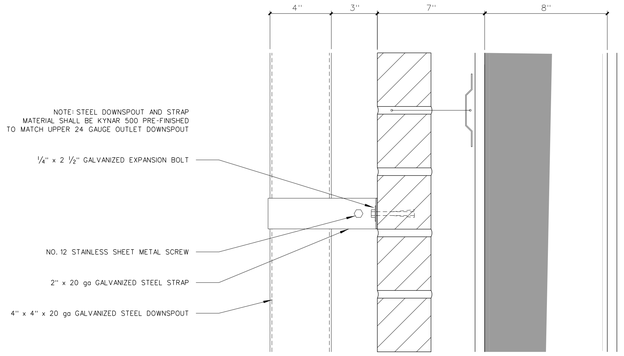
003.10 SNOW AND ICE GUARD DETAIL
SCALE: 3" = 1'-0"



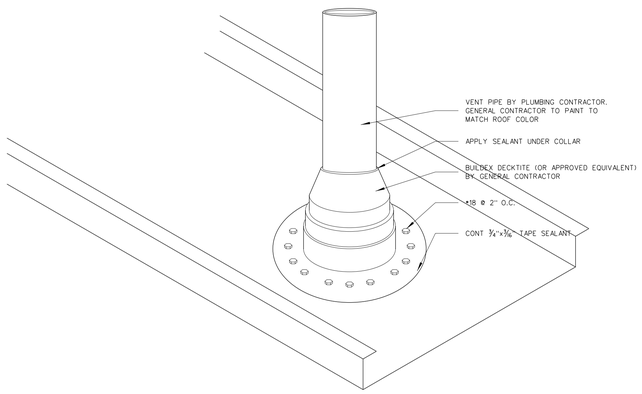
003.7 DETAIL - DOWNSPOUT @ MTL. PANEL
SCALE: 3" = 1'-0"



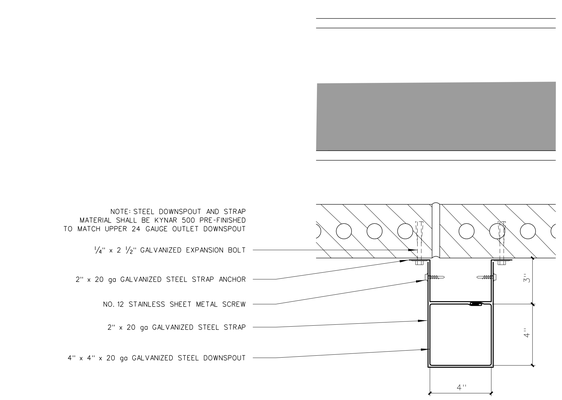
003.9 CURB FLASHING DETAIL
SCALE: NONE



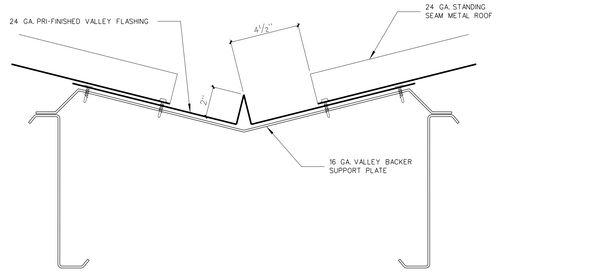
003.6 DETAIL - DOWNSPOUT @ BRICK
SCALE: 3" = 1'-0"



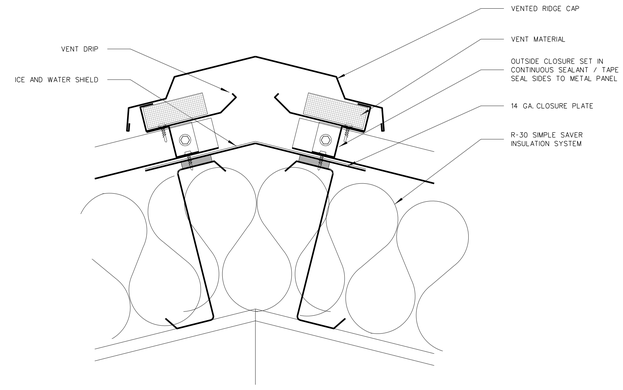
003.8 PIPE FLASHING DETAIL
SCALE: 3" = 1'-0"



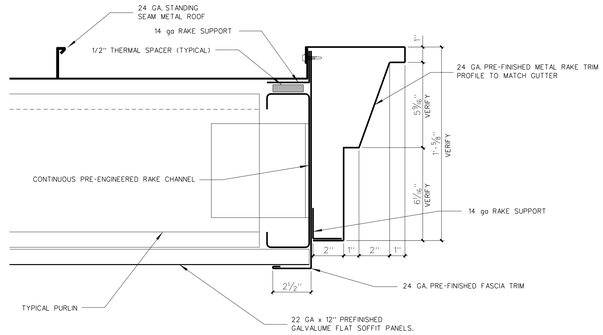
003.5 PLAN DETAIL - DOWNSPOUT @ BRICK
SCALE: 3" = 1'-0"



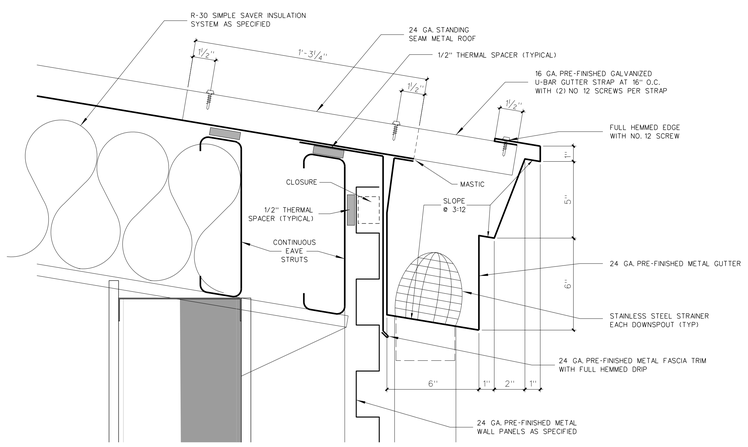
003.4 VALLEY DETAIL
SCALE: 3" = 1'-0"



003.3 RIDGE DETAIL
SCALE: 3" = 1'-0"



003.2 RAKE DETAIL
SCALE: 3" = 1'-0"



003.1 GUTTER DETAIL
SCALE: 3" = 1'-0"

No.	Date	Revision

Hite associates
ARCHITECTURE / PLANNING / TECHNOLOGY
2600 Meridian Drive / Greenville, NC 27834 / tel (252) 757-0333

HITE ASSOCIATES, P.C. ARCHITECTURAL CORPORATION OF NORTH CAROLINA ESTABLISHED 1/5/1978 CERTIFICATE NUMBER C-418 GREENVILLE, NC

JAMES GRAY HITE REGISTERED ARCHITECT 3754 GREENVILLE, NC

COMMUNITY CENTER AND GYMNASIUM FOR

Alice F. Keene District Park

4561 County Home Road, Greenville, NC 27858

Project No. 22207

Date: December 1, 2022

Drawing no. A 003

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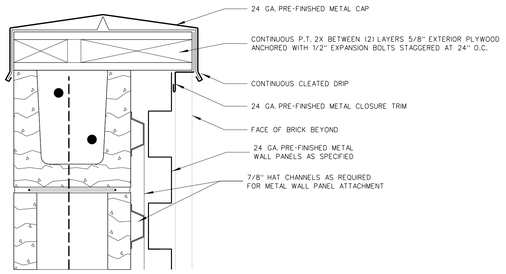
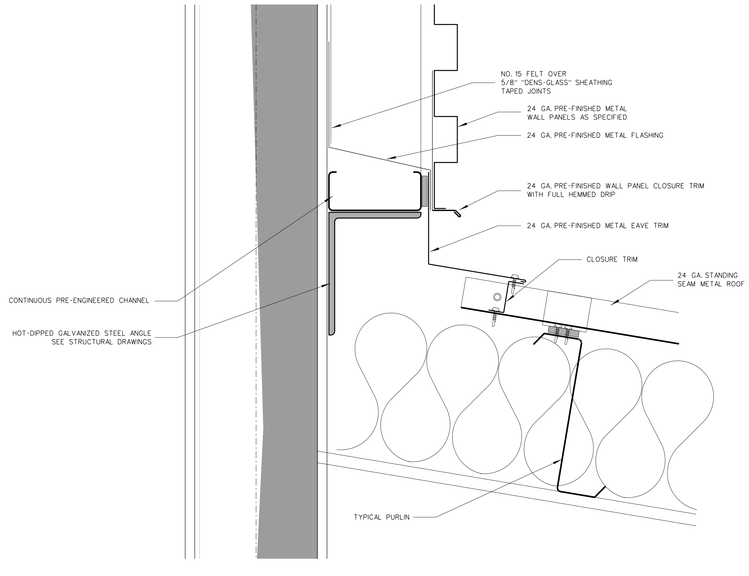
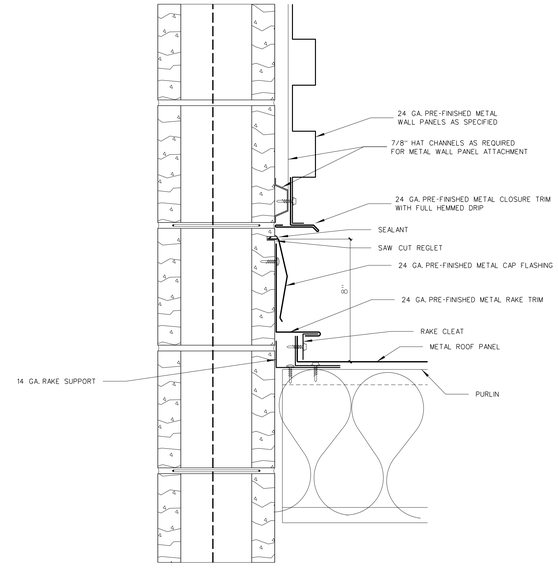


004.2 PARAPET DETAIL
SCALE: 3" = 1'-0"



004.3 HIGH EAVE FLASHING DETAIL
SCALE: 3" = 1'-0"



004.1 RAKE FLASHING DETAIL
SCALE: 3" = 1'-0"

No.	Date	Revision

Hite associates
ARCHITECTURE / PLANNING / TECHNOLOGY
2600 Meridian Drive / Greenville, NC 27834 / tel (252) 757-0333

HITE ASSOCIATES, P.C. — ARCHITECTURAL CORPORATION — REGISTERED — CERTIFICATE NUMBER C-418 — GREENVILLE, N.C.

JAMES GRAY HITE — REGISTERED ARCHITECT — 3753 — NORTH CAROLINA — GREENVILLE, N.C.

COMMUNITY CENTER AND GYMNASIUM FOR
Alice F. Keene District Park
4561 County Home Road, Greenville, NC 27858

Project No.
22207

Date
December 1, 2022

Drawing no.
A
004

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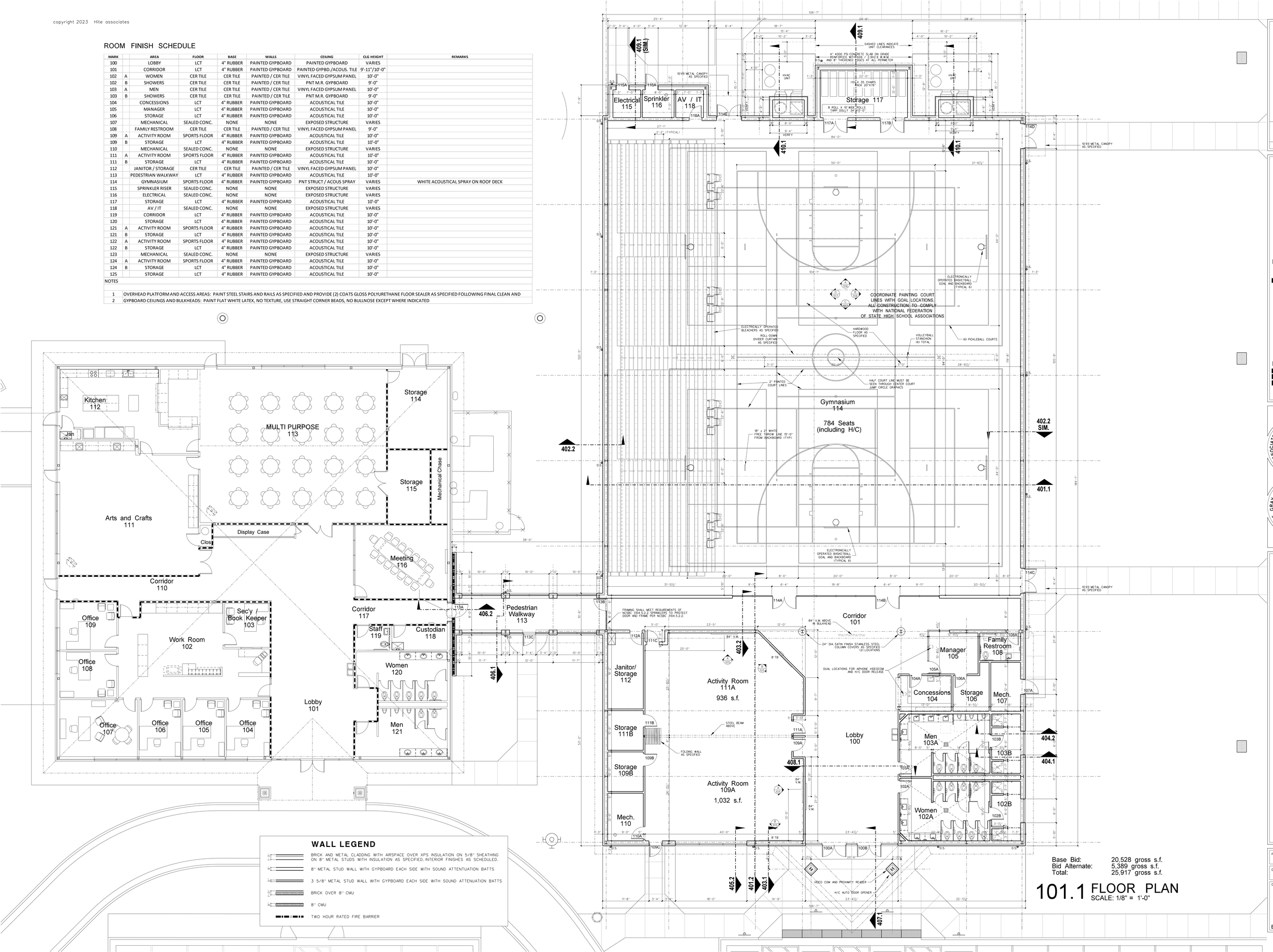
ROOM FINISH SCHEDULE

MARK		AREA	FLOOR	BASE	WALLS	CEILING	CLG HEIGHT	REMARKS
100		LOBBY	LCT	4" RUBBER	PAINTED GYPBOARD	PAINTED GYPBOARD	VARIES	
101		CORRIDOR	LCT	4" RUBBER	PAINTED GYPBOARD	PAINTED GYPBD./ACOUS. TILE	9'-11"/10'-0"	
102	A	WOMEN	CER TILE	CER TILE	PAINTED / CER TILE	VINYL FACED GYPSUM PANEL	10'-0"	
102	B	SHOWERS	CER TILE	CER TILE	PAINTED / CER TILE	PNT M.R. GYPBOARD	9'-0"	
103	A	MEN	CER TILE	CER TILE	PAINTED / CER TILE	VINYL FACED GYPSUM PANEL	10'-0"	
103	B	SHOWERS	CER TILE	CER TILE	PAINTED / CER TILE	PNT M.R. GYPBOARD	9'-0"	
104		CONCESSIONS	LCT	4" RUBBER	PAINTED GYPBOARD	ACOUSTICAL TILE	10'-0"	
105		MANAGER	LCT	4" RUBBER	PAINTED GYPBOARD	ACOUSTICAL TILE	10'-0"	
106		STORAGE	LCT	4" RUBBER	PAINTED GYPBOARD	ACOUSTICAL TILE	10'-0"	
107		MECHANICAL	SEALED CONC.	NONE	NONE	EXPOSED STRUCTURE	VARIES	
108		FAMILY RESTROOM	CER TILE	CER TILE	PAINTED / CER TILE	VINYL FACED GYPSUM PANEL	9'-0"	
109	A	ACTIVITY ROOM	SPORTS FLOOR	4" RUBBER	PAINTED GYPBOARD	ACOUSTICAL TILE	10'-0"	
109	B	STORAGE	LCT	4" RUBBER	PAINTED GYPBOARD	ACOUSTICAL TILE	10'-0"	
110		MECHANICAL	SEALED CONC.	NONE	NONE	EXPOSED STRUCTURE	VARIES	
111	A	ACTIVITY ROOM	SPORTS FLOOR	4" RUBBER	PAINTED GYPBOARD	ACOUSTICAL TILE	10'-0"	
111	B	STORAGE	LCT	4" RUBBER	PAINTED GYPBOARD	ACOUSTICAL TILE	10'-0"	
112		JANITOR / STORAGE	CER TILE	CER TILE	PAINTED / CER TILE	VINYL FACED GYPSUM PANEL	10'-0"	
113		PEDESTRIAN WALKWAY	LCT	4" RUBBER	PAINTED GYPBOARD	ACOUSTICAL TILE	10'-0"	
114		GYMNASIUM	SPORTS FLOOR	4" RUBBER	PAINTED GYPBOARD	PNT STRUCT / ACOUS SPRAY	VARIES	WHITE ACOUSTICAL SPRAY ON ROOF DECK
115		SPRINKLER RISER	SEALED CONC.	NONE	NONE	EXPOSED STRUCTURE	VARIES	
116		ELECTRICAL	SEALED CONC.	NONE	NONE	EXPOSED STRUCTURE	VARIES	
117		STORAGE	LCT	4" RUBBER	PAINTED GYPBOARD	ACOUSTICAL TILE	10'-0"	
118		AV / IT	SEALED CONC.	NONE	NONE	EXPOSED STRUCTURE	VARIES	
119		CORRIDOR	LCT	4" RUBBER	PAINTED GYPBOARD	ACOUSTICAL TILE	10'-0"	
120		STORAGE	LCT	4" RUBBER	PAINTED GYPBOARD	ACOUSTICAL TILE	10'-0"	
121	A	ACTIVITY ROOM	SPORTS FLOOR	4" RUBBER	PAINTED GYPBOARD	ACOUSTICAL TILE	10'-0"	
121	B	STORAGE	LCT	4" RUBBER	PAINTED GYPBOARD	ACOUSTICAL TILE	10'-0"	
122	A	ACTIVITY ROOM	SPORTS FLOOR	4" RUBBER	PAINTED GYPBOARD	ACOUSTICAL TILE	10'-0"	
122	B	STORAGE	LCT	4" RUBBER	PAINTED GYPBOARD	ACOUSTICAL TILE	10'-0"	
123		MECHANICAL	SEALED CONC.	NONE	NONE	EXPOSED STRUCTURE	VARIES	
124	A	ACTIVITY ROOM	SPORTS FLOOR	4" RUBBER	PAINTED GYPBOARD	ACOUSTICAL TILE	10'-0"	
124	B	STORAGE	LCT	4" RUBBER	PAINTED GYPBOARD	ACOUSTICAL TILE	10'-0"	
125		STORAGE	LCT	4" RUBBER	PAINTED GYPBOARD	ACOUSTICAL TILE	10'-0"	

NOTES

1. OVERHEAD PLATFORM AND ACCESS AREAS: PAINT STEEL STAIRS AND RAILS AS SPECIFIED AND PROVIDE (2) COATS GLOSS POLYURETHANE FLOOR SEALER AS SPECIFIED FOLLOWING FINAL CLEAN AND
2. GYPBOARD CEILINGS AND BULKHEADS: PAINT FLAT WHITE LATEX, NO TEXTURE, USE STRAIGHT CORNER BEADS, NO BULLNOSE EXCEPT WHERE INDICATED



WALL LEGEND

- BRICK AND METAL CLADDING WITH AIRSPACE OVER XPS INSULATION ON 5/8" SHEATHING ON 8" METAL STUDS WITH INSULATION AS SPECIFIED. INTERIOR FINISHES AS SCHEDULED.
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- BRICK OVER 8" CMU
- 8" CMU
- TWO HOUR RATED FIRE BARRIER

Base Bid: 20,528 gross s.f.
Bid Alternate: 5,389 gross s.f.
Total: 25,917 gross s.f.

101.1 FLOOR PLAN
SCALE: 1/8" = 1'-0"

No.	Date	Revision

Hite associates
ARCHITECTURE / PLANNING / TECHNOLOGY
2600 Meridian Drive / Greenville, NC 27834 / tel (252) 757-0333

HITE ASSOCIATES, P.C. ARCHITECTURAL CORPORATION CERTIFICATE NUMBER C-1218 REGISTERED GREENVILLE, N.C.

JAMES GRAY HITE REGISTERED ARCHITECT 3734 GREENVILLE, N.C.

COMMUNITY CENTER AND GYMNASIUM FOR
Alice F. Keene District Park
4561 County Home Road, Greenville, NC 27858

Project No. 22207
Date December 1, 2022
Drawing no. A 101 BASE

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ROOM FINISH SCHEDULE

MARK		AREA	FLOOR	BASE	WALLS	CEILING	CLG HEIGHT	REMARKS
100		LOBBY	LCT	4" RUBBER	PAINTED GYPBOARD	PAINTED GYPBOARD	VARIES	
101		CORRIDOR	LCT	4" RUBBER	PAINTED GYPBOARD	PAINTED GYPBD./ACOUS. TILE	9'-11"/10'-0"	
102	A	WOMEN	CER TILE	CER TILE	PAINTED / CER TILE	VINYL FACED GYPSUM PANEL	10'-0"	
102	B	SHOWERS	CER TILE	CER TILE	PAINTED / CER TILE	PNT M.R. GYPBOARD	9'-0"	
103	A	MEN	CER TILE	CER TILE	PAINTED / CER TILE	VINYL FACED GYPSUM PANEL	10'-0"	
103	B	SHOWERS	CER TILE	CER TILE	PAINTED / CER TILE	PNT M.R. GYPBOARD	9'-0"	
104		CONCESSIONS	LCT	4" RUBBER	PAINTED GYPBOARD	ACOUSTICAL TILE	10'-0"	
105		MANAGER	LCT	4" RUBBER	PAINTED GYPBOARD	ACOUSTICAL TILE	10'-0"	
106		STORAGE	LCT	4" RUBBER	PAINTED GYPBOARD	ACOUSTICAL TILE	10'-0"	
107		MECHANICAL	SEALED CONC.	NONE	NONE	EXPOSED STRUCTURE	VARIES	
108		FAMILY RESTROOM	CER TILE	CER TILE	PAINTED / CER TILE	VINYL FACED GYPSUM PANEL	9'-0"	
109	A	ACTIVITY ROOM	SPORTS FLOOR	4" RUBBER	PAINTED GYPBOARD	ACOUSTICAL TILE	10'-0"	
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110		MECHANICAL	SEALED CONC.	NONE	NONE	EXPOSED STRUCTURE	VARIES	
111	A	ACTIVITY ROOM	SPORTS FLOOR	4" RUBBER	PAINTED GYPBOARD	ACOUSTICAL TILE	10'-0"	
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115		SPRINKLER RISER	SEALED CONC.	NONE	NONE	EXPOSED STRUCTURE	VARIES	
116		ELECTRICAL	SEALED CONC.	NONE	NONE	EXPOSED STRUCTURE	VARIES	
117		STORAGE	LCT	4" RUBBER	PAINTED GYPBOARD	ACOUSTICAL TILE	10'-0"	
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124	A	ACTIVITY ROOM	SPORTS FLOOR	4" RUBBER	PAINTED GYPBOARD	ACOUSTICAL TILE	10'-0"	
124	B	STORAGE	LCT	4" RUBBER	PAINTED GYPBOARD	ACOUSTICAL TILE	10'-0"	
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NOTES

1	OVERHEAD PLATFORM AND ACCESS AREAS: PAINT STEEL STAIRS AND RAILS AS SPECIFIED AND PROVIDE (2) COATS GLOSS POLYURETHANE FLOOR SEALER AS SPECIFIED FOLLOWING FINAL CLEAN AND
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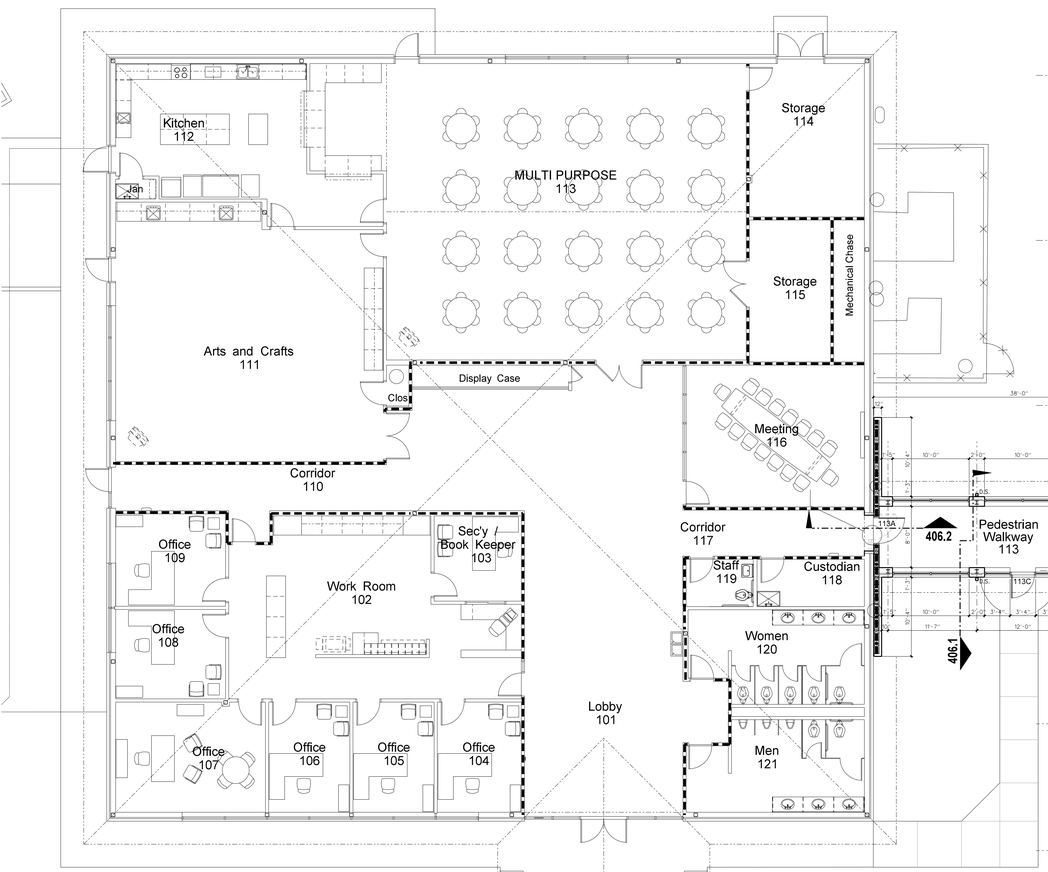

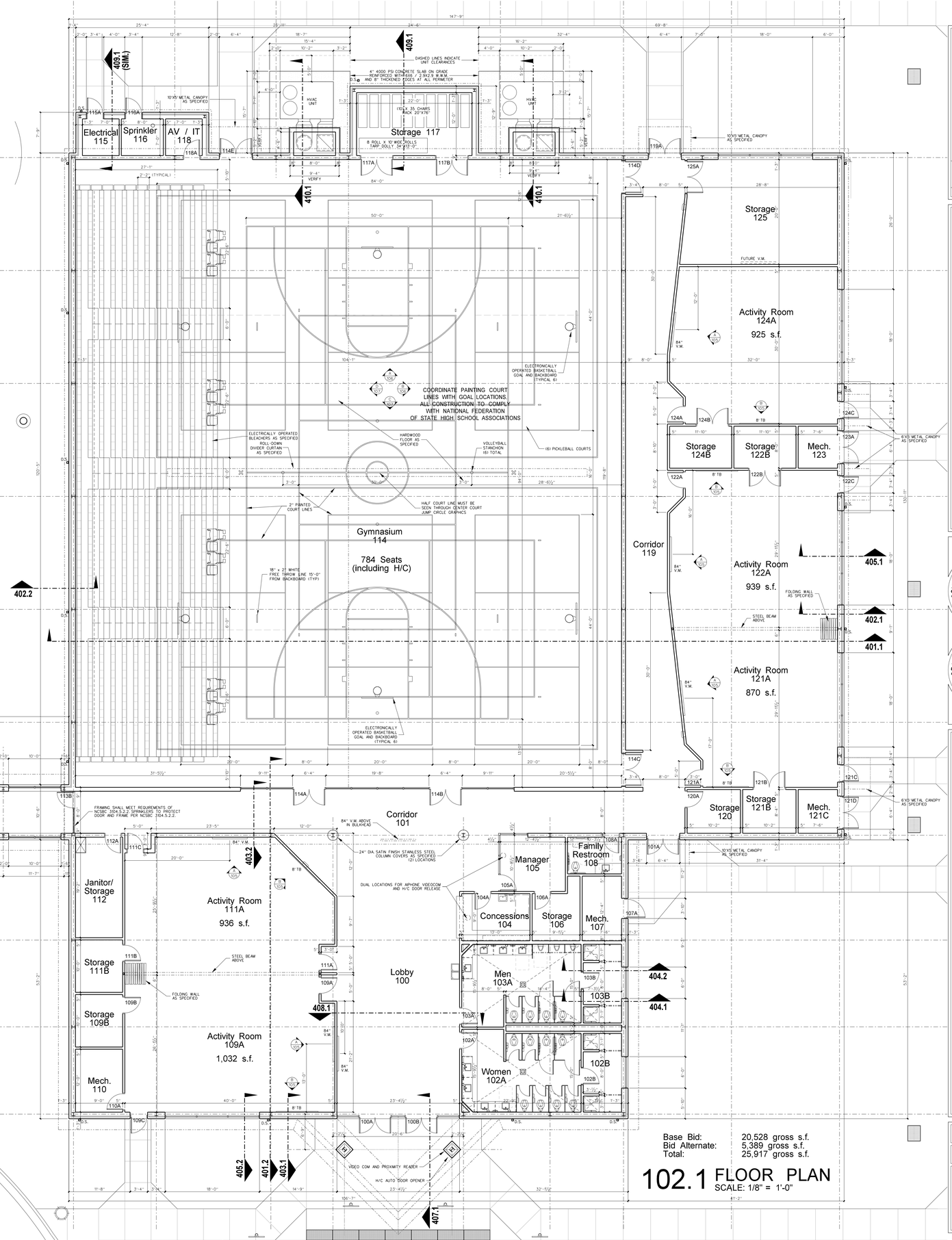

WALL LEGEND

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Bid Alternate: 5,389 gross s.f.
Total: 25,917 gross s.f.

102.1 FLOOR PLAN
SCALE: 1/8" = 1'-0"

No.	Date	Revision

Hite associates
ARCHITECTURE / PLANNING / TECHNOLOGY
2600 Meridian Drive / Greenville, NC 27834 / tel (252) 757-0333

HITE ASSOCIATES, P.C. — CORPORATE NUMBER C418 — GREENVILLE

JAMES GRAY HITE — REGISTERED ARCHITECT 3753 — GREENVILLE

COMMUNITY CENTER AND GYMNASIUM FOR
Alice F. Keene District Park
4561 County Home Road, Greenville, NC 27858

Project No.	22207
Date:	December 1, 2022
Drawing no.	A 102
	ALTERNATE

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CEILING FINISH SCHEDULE

TYPE 1
24"x24"x 5/8" ROCKFON ARTIC 600 SQUARE LAY-IN / CHICAGO METALLIC 200 SNAP GRID 15/16".

TYPE 2
24"x24"x 5/8" ROCKFON ARTIC 600 SQUARE TEGULAR / CHICAGO METALLIC 200 SNAP GRID 15/16".

TYPE 3
24"x24"x 5/8" VINYL FACED GYPSUM PANEL, WHITE STIPPLE FINISH, AL PRELUDE PLUS GRID.

TYPE 4
5/8" MOISTURE RESISTANT GYPSUM BOARD WITH HAT CHANNELS/"C" CHANNELS FRAMING SYSTEM

TYPE 5
5/8" GYPSUM BOARD WITH HAT CHANNELS/"C" CHANNELS FRAMING SYSTEM.

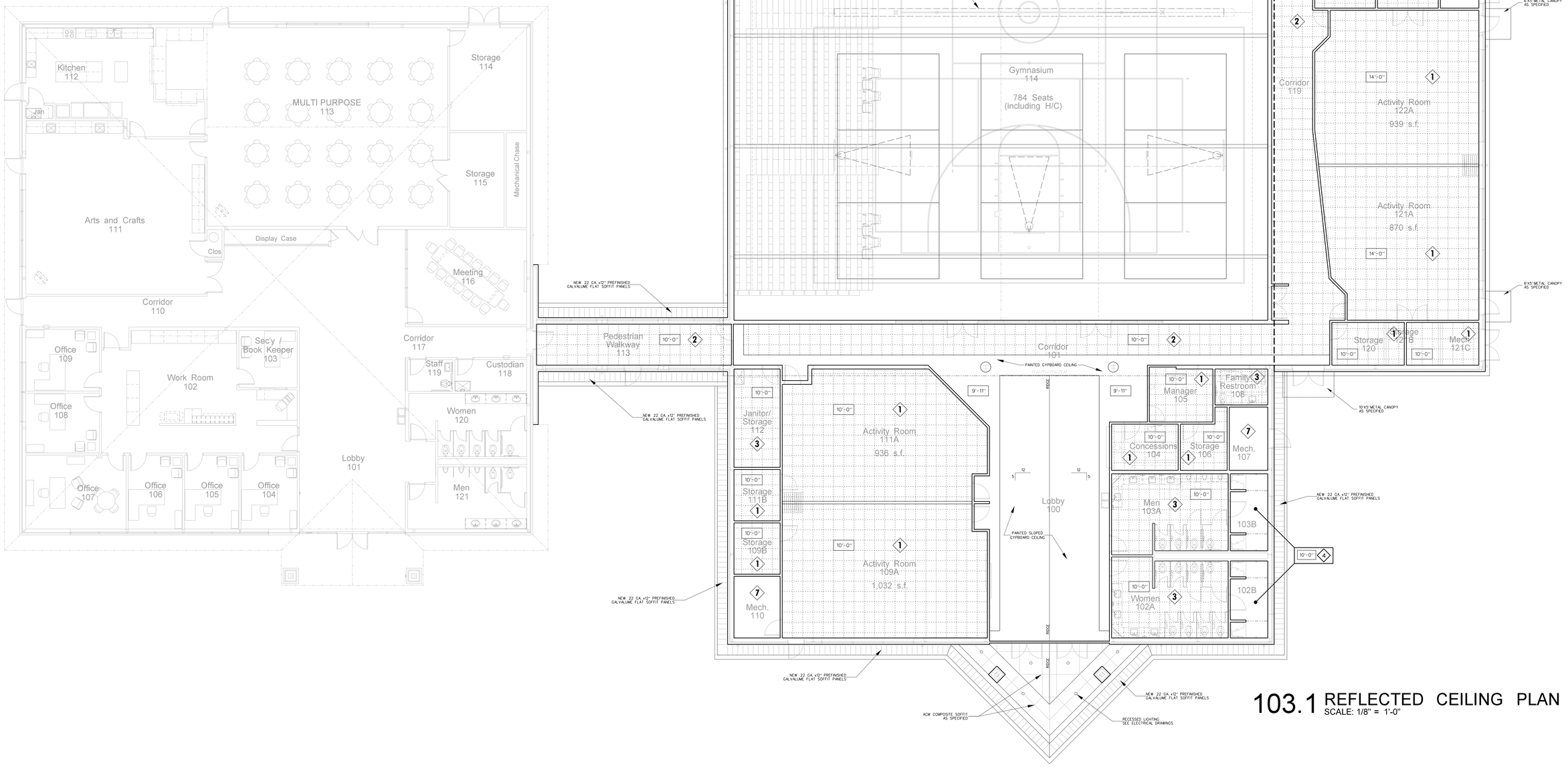
TYPE 6
R-30 SIMPLE SAVER INSULATION SYSTEM AS SPECIFIED

TYPE 7
EXPOSED STRUCTURE

NOTE:
(1) PROVIDE TYPE 1 CEILING UNLESS OTHERWISE NOTED.
(2) PROVIDE 24" x 24" CEILING ACCESS DOOR IN EACH SPACE WITH DRYWALL CEILING.

LEGEND - REFLECTED CEILING PLAN

- 2 — CEILING TYPE - SEE CEILING FINISH SCHEDULE
- XX'-X" — CEILING HEIGHT ABOVE FINISH FLOOR
- SLOPED CEILING
- LS XX'-X" — CEILING HEIGHT ABOVE FINISH FLOOR - LOW SIDE
- HS XX'-X" — CEILING HEIGHT ABOVE FINISH FLOOR - HIGH SIDE
- 2 x 2 ACOUSTICAL TILE AND GRID
- GYPBOARD CEILING
- MR — MOISTURE RESISTANT GYPBOARD CEILING
- EXPSTR — EXPOSED STRUCTURE
- METAL SOFFIT
- EIFS — EIFS SOFFIT
- DROP-IN TRAY FOR VIDEO MONITOR CEILING BRACKET
- DROP-IN TRAY FOR LCD PROJECTOR CEILING BRACKET
- FLUORESCENT LIGHT FIXTURE
- RECESSED LIGHT FIXTURE
- SURFACE MOUNTED LIGHT FIXTURE
- WALL MOUNTED LIGHT FIXTURE
- CEILING MOUNTED TRACK LIGHTING
- SP — SPEAKER
- SUPPLY AIR GRILLE
- RETURN AIR GRILLE
- EXHAUST FAN
- S — SMOKE SENSOR
- SECURITY CAMERA



103.1 REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

Hite associates
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2600 Meridian Drive / Greenville, NC 27834 / tel (252) 757-0333

No.	Date	Revision

COMMUNITY CENTER AND GYMNASIUM FOR
Alice F. Keene District Park
4561 County Home Road, Greenville, NC 27858

HITE ASSOCIATES, P.C. — ARCHITECTURAL CORPORATION — CERTIFICATE NUMBER 4 18 — REGISTERED — GREENVILLE, N.C.

JAMES GRAY HITE — REGISTERED ARCHITECT 3734 — GREENVILLE, N.C.

Project No. 22207
Date December 1, 2022
Drawing no. A 103

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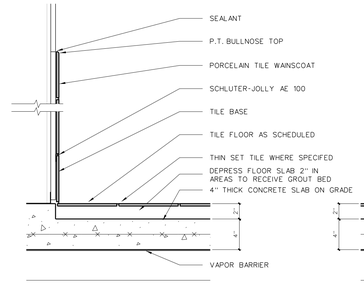
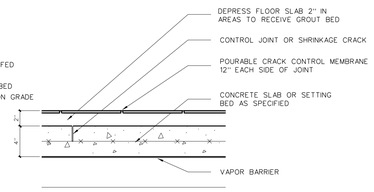
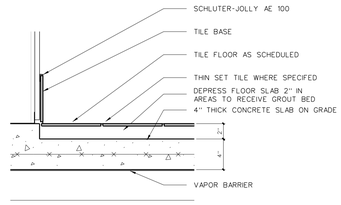


BASE / WAINSCOT DETAIL @ GROUT BED



DETAIL @ CONTROL JOINT



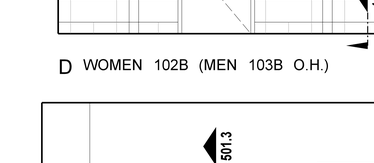
BASE DETAIL @ GROUT BED

Toilet Accessory Schedule

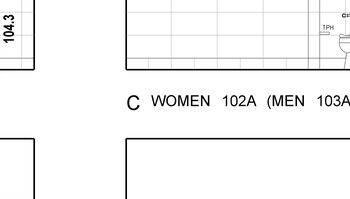
Mark	Model	Description	Number Required	Remarks
SD	BOBRICK 2111	LOTION SOAP DISPENSER	AS PER PLAN	
SNDU	BOBRICK B-270	SANITARY NAPKIN DISPENSER	FEMALE TOILETS	
TPH	BOBRICK B-2740	TOILET PAPER DISPENSER	AS PER PLAN	
MR36	BOBRICK 165-1836	LAMINATED GLASS MIRROR W/ S.S. CHANNEL MOLD	AS PER PLAN	
MR60	BOBRICK 165-2460	LAMINATED GLASS MIRROR W/ S.S. CHANNEL MOLD	AS PER PLAN	
GB18	BOBRICK 6806-18	18" GRAB BAR (MOUNT VERTICALLY)	AS PER PLAN	
GB30	BOBRICK 6806-30	30" GRAB BAR	AS PER PLAN	
GB36	BOBRICK 6806-36	36" GRAB BAR	AS PER PLAN	
GB42	BOBRICK 6806-42	42" GRAB BAR	AS PER PLAN	
GB6161	BOBRICK 6861	TWO WALL GRAB BAR	AS PER PLAN	
PTD	BOBRICK B-262	PAPER TOWEL DISPENSER	AS PER PLAN	
DCS	100-SSE-SM	SURFACE MOUNT DIAPER CHANGING STATION	AS PER PLAN	FOUNDATIONS WORLDWIDE, INC. 16 GA. TYPE 304 STAINLESS STEEL
FSS-1	BOBRICK 5191	FOLDING SHOWER SEAT	AS PER PLAN	H/C TRANSFER TYPE SHOWER
SSCR	BOBRICK 6047	SHOWER CURTAIN ROD	ONE EACH SHOWER	PROVIDE VINYL CURTAIN BOBRICK 204-2/204-3 W/ HOOKS
SDH	BOBRICK-973	SOAP DISH	ONE EACH SHOWER	SEE ELEVATION
DRH	BOBRICK 7672	DOUBLE ROBE HOOK	ONE EACH SHOWER	
MPR	BOBRICK 239x34	MOP RACK	ONE EACH CUSTODIAN ROOM	PLACE OVER MOP SINK

ALL MODEL NUMBERS REFERENCE BOBRICK ACCESSORY
PROVIDE BLOCKING AS REQUIRED FOR TOILET ACCESSORIES AND DOOR STOPS

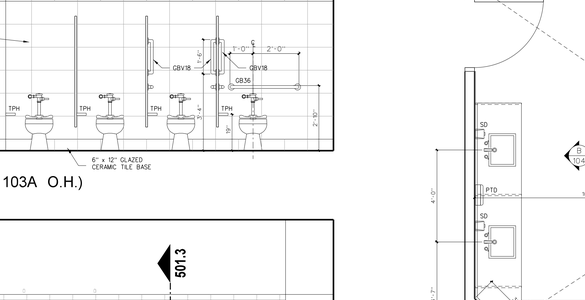
BASE / WAINSCOT DETAIL FOR THIN SET TILE



THIN SET TILE DETAIL @ CONTROL JOINT



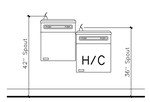
BASE DETAIL FOR THIN SET TILE



104.4 H/C Shower Elevation
SCALE: 1/2" = 1'-0"

104.3 SHOWER TRANSITION DETAIL
SCALE: FULL

104.5 TILE DETAILS
SCALE: 1 1/2" = 1'-0"



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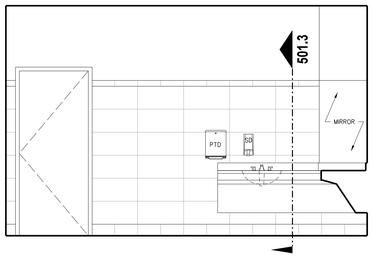
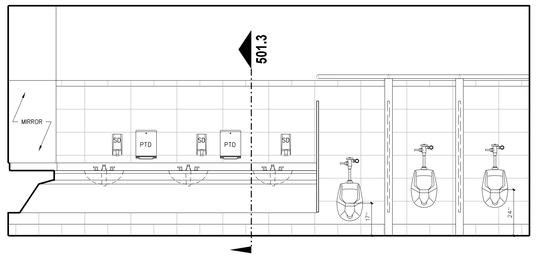


B MEN 103A



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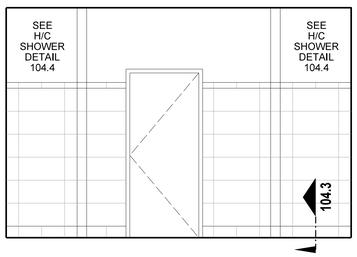
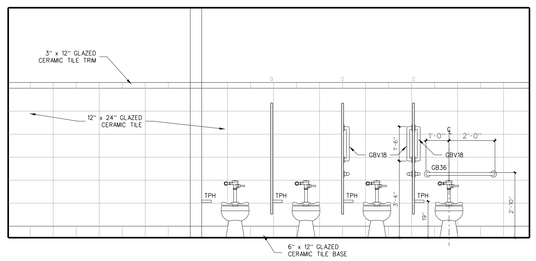
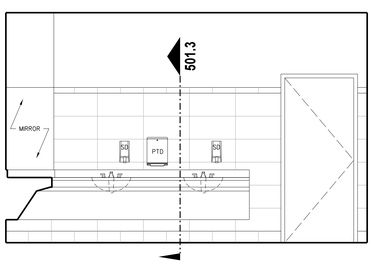


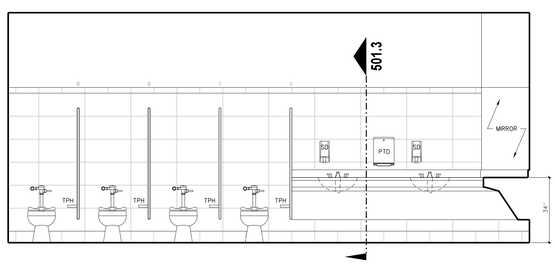
D WOMEN 102B (MEN 103B O.H.)



C WOMEN 102A (MEN 103A O.H.)

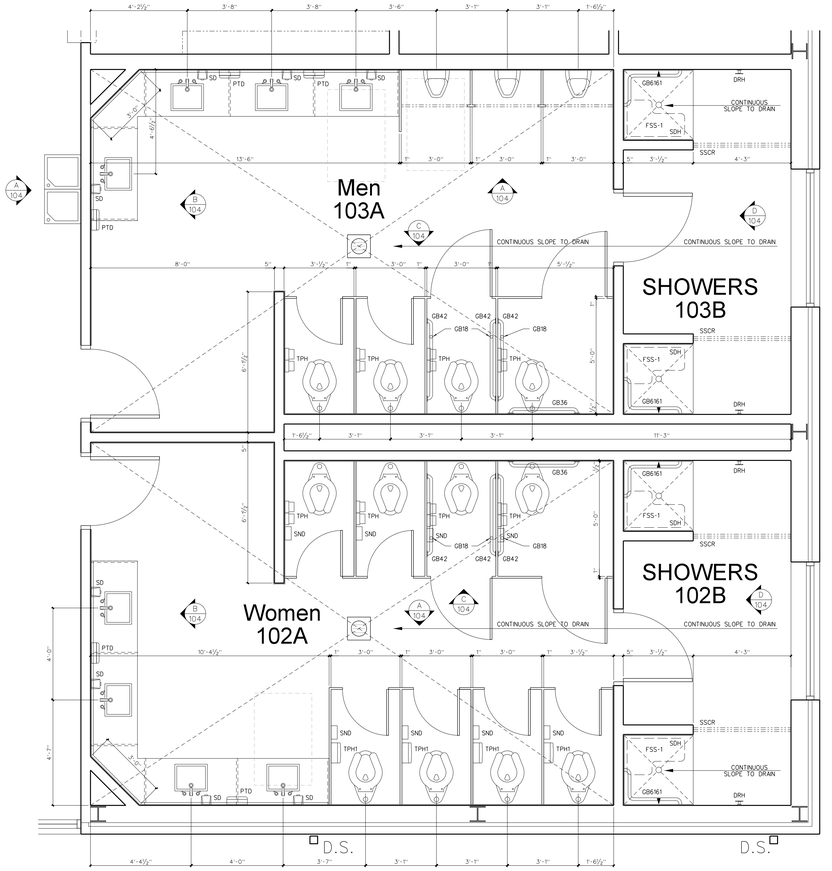


B WOMEN 102A



A WOMEN 102A

104.2 INTERIOR ELEVATIONS
SCALE: 3/8" = 1'-0"



104.1 ENLARGED TOILETS PLAN
SCALE: 3/8" = 1'-0"

No.	Date	Revision

Hite associates
ARCHITECTURE / PLANNING / TECHNOLOGY
2600 Meridian Drive / Greenville, NC 27834 / tel (252) 757-0333

HITE ASSOCIATES, P.A. ARCHITECTURAL CORPORATION OF NORTH CAROLINA CERTIFICATE NUMBER 4118 GREENVILLE

JAMES GRAY HITE REGISTERED ARCHITECT 3754 GREENVILLE

COMMUNITY CENTER AND GYMNASIUM FOR
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Project No. 22207
Date: December 1, 2022
Drawing no. A 104

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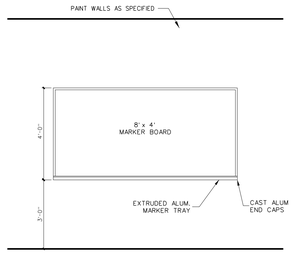
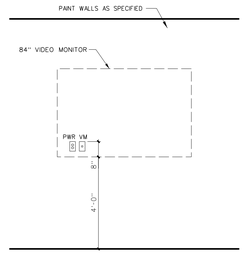
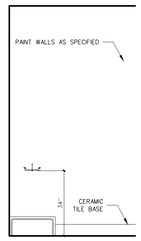


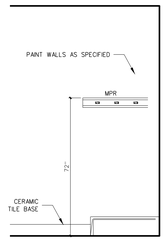
B ACTIVITY ROOM(S)



A ACTIVITY ROOM(S)



B JANITOR/STOR. 112

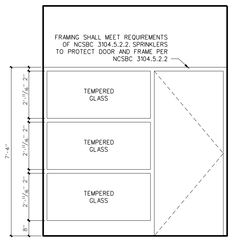


A JANITOR/STOR. 112

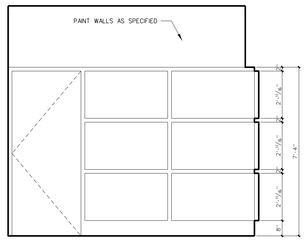
Toilet Accessory Schedule

Mark	Model	Description	Number Required	Remarks
SD	BOBRICK 2111	LOTION SOAP DISPENSER	AS PER PLAN	
SNDU	BOBRICK B-270	SANITARY NAPKIN DISPENSER	FEMALE TOILETS	
TPH	BOBRICK B-2740	TOILET PAPER DISPENSER	AS PER PLAN	
MR36	BOBRICK 165-1836	LAMINATED GLASS MIRROR W/ S.S. CHANNEL MOLD	AS PER PLAN	
MR60	BOBRICK 165-2460	LAMINATED GLASS MIRROR W/ S.S. CHANNEL MOLD	AS PER PLAN	
GB18	BOBRICK 6806-18	18" GRAB BAR (MOUNT VERTICALLY)	AS PER PLAN	
GB30	BOBRICK 6806-30	30" GRAB BAR	AS PER PLAN	
GB36	BOBRICK 6806-36	36" GRAB BAR	AS PER PLAN	
GB42	BOBRICK 6806-42	42" GRAB BAR	AS PER PLAN	
GB6161	BOBRICK 6861	TWO WALL GRAB BAR	AS PER PLAN	
PTD	BOBRICK B-262	PAPER TOWEL DISPENSER	AS PER PLAN	
DCS	100-SSE-SM	SURFACE MOUNT DIAPER CHANGING STATION	AS PER PLAN	FOUNDATIONS WORLDWIDE, INC. 16 GA. TYPE 304 STAINLESS STEEL
FSS-1	BOBRICK 5191	FOLDING SHOWER SEAT	AS PER PLAN	H/C TRANSFER TYPE SHOWER
SSCR	BOBRICK 6047	SHOWER CURTAIN ROD	ONE EACH SHOWER	PROVIDE VINYL CURTAIN BOBRICK 204-2/204-3 W/ HOOKS
SDH	BOBRICK-973	SOAP DISH	ONE EACH SHOWER	SEE ELEVATION
DRH	BOBRICK 7672	DOUBLE ROBE HOOK	ONE EACH SHOWER	
MPR	BOBRICK 239x34	MOP RACK	ONE EACH CUSTODIAN ROOM	PLACE OVER MOP SINK

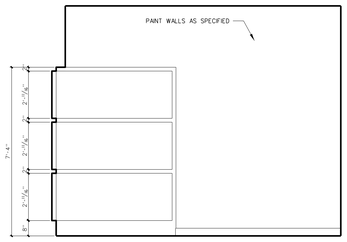
ALL MODEL NUMBERS REFERENCE BOBRICK ACCESSORY
PROVIDE BLOCKING AS REQUIRED FOR TOILET ACCESSORIES AND DOOR STOPS



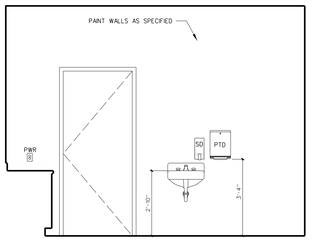
A CORRIDOR 100



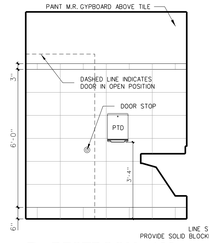
A MANAGER 105



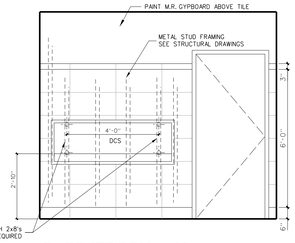
B MANAGER 105



C CONCESSIONS 104



D RESTROOM 108



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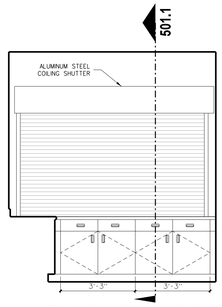

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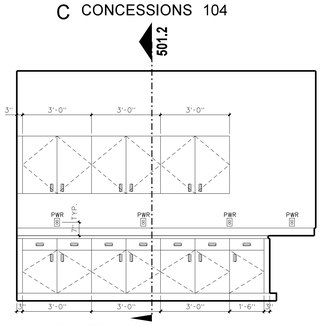
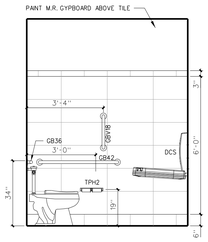
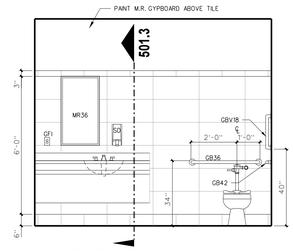


A CONCESSIONS 104

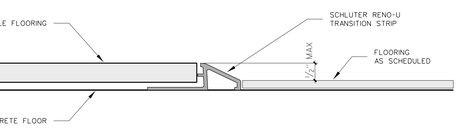


B RESTROOM 108

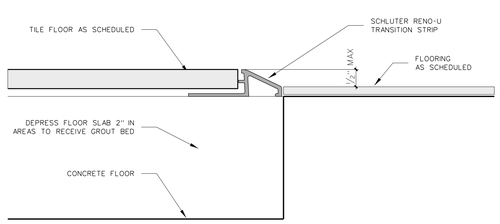


A RESTROOM 108

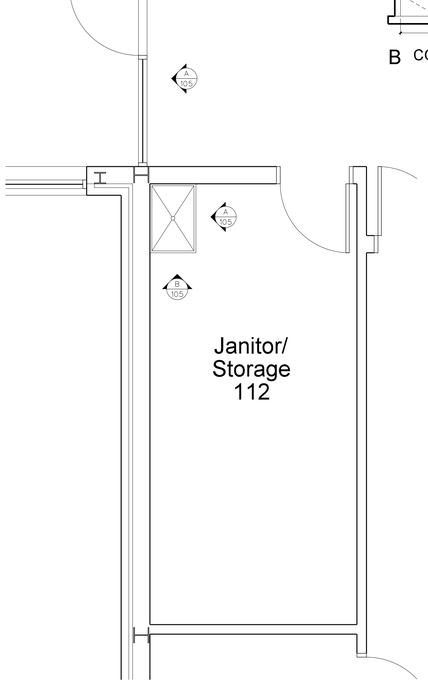
105.2 INTERIOR ELEVATIONS
SCALE: 3/8" = 1'-0"

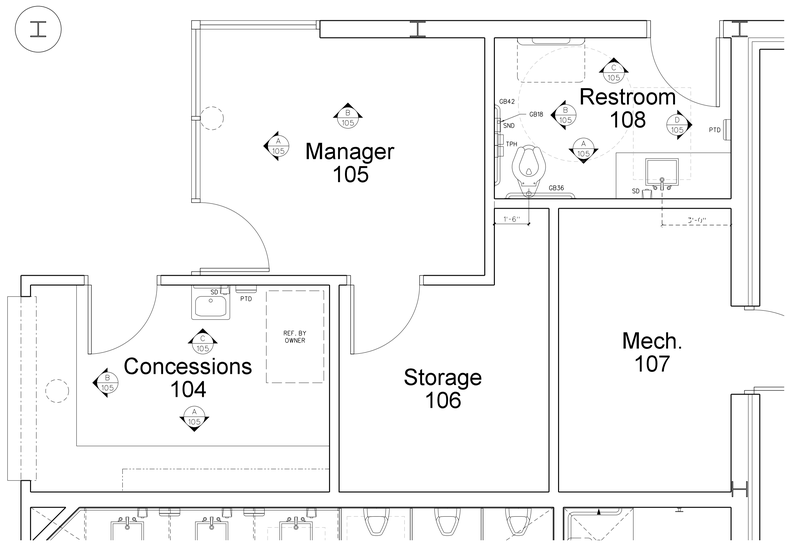


105.4 TYPICAL OUTSIDE CORNER DETAIL
SCALE: FULL SIZE



105.3 FLOOR TRANSITION DETAILS
SCALE: FULL SIZE





105.1 ENLARGED PLANS
SCALE: 3/8" = 1'-0"

No.	Date	Revision

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HITE ASSOCIATES, P.C. ARCHITECTURAL CORPORATION CERTIFICATE NUMBER C-418 REGISTERED GREENVILLE, N.C.

JAMES GRAY HITE REGISTERED ARCHITECT 3754 GREENVILLE, N.C.

COMMUNITY CENTER AND GYMNASIUM FOR
Alice F. Keene District Park
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Project No. 22207
Date: December 1, 2022
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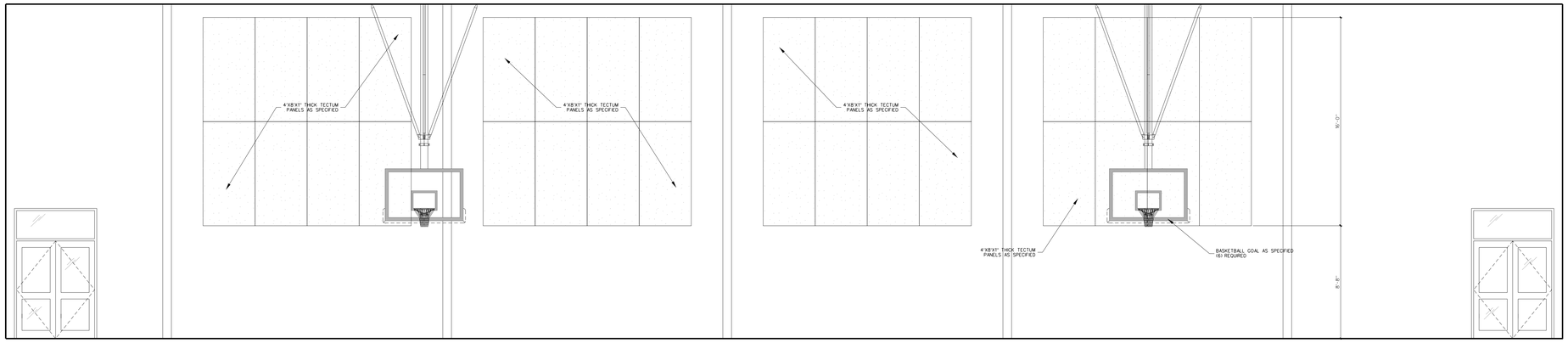
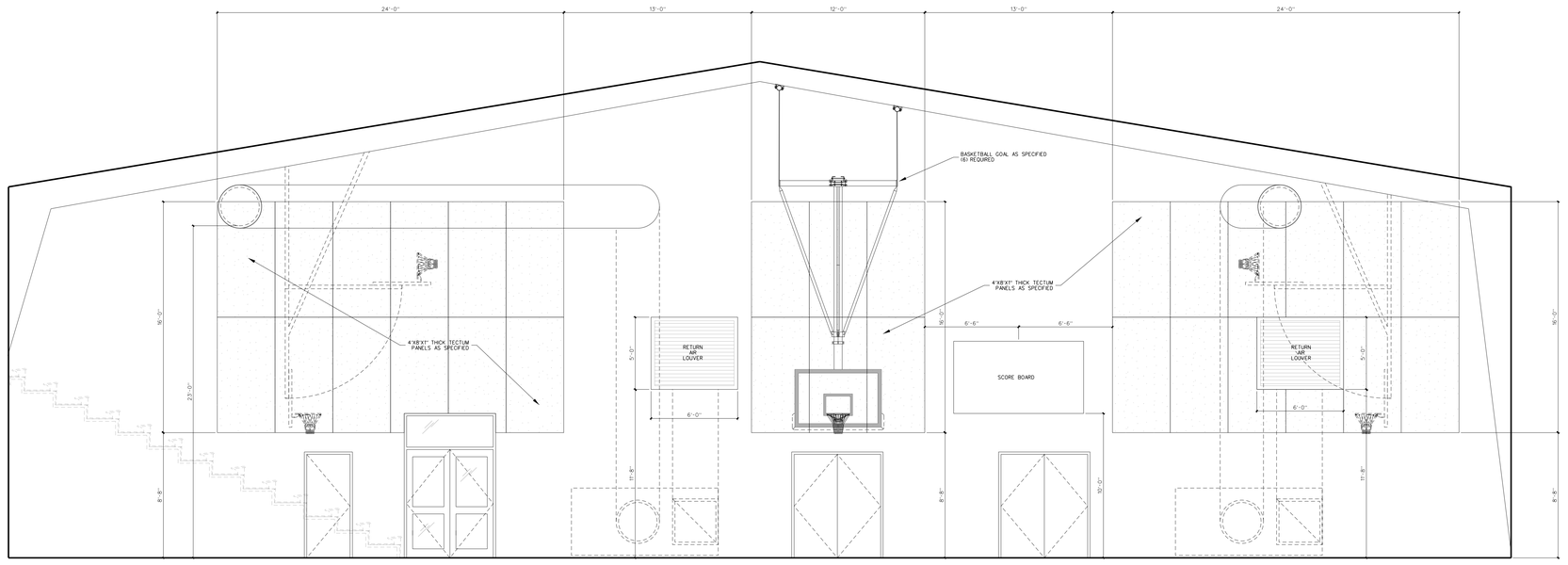


B GYMNASIUM 114



A GYMNASIUM 114

106.1 GYM INTERIOR ELEVATIONS
SCALE: 1/4" = 1'-0"

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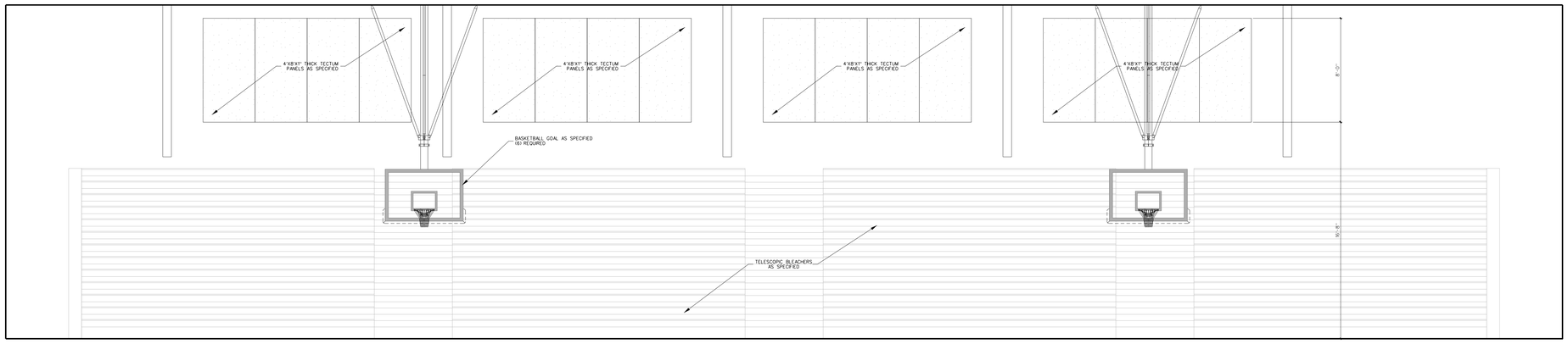
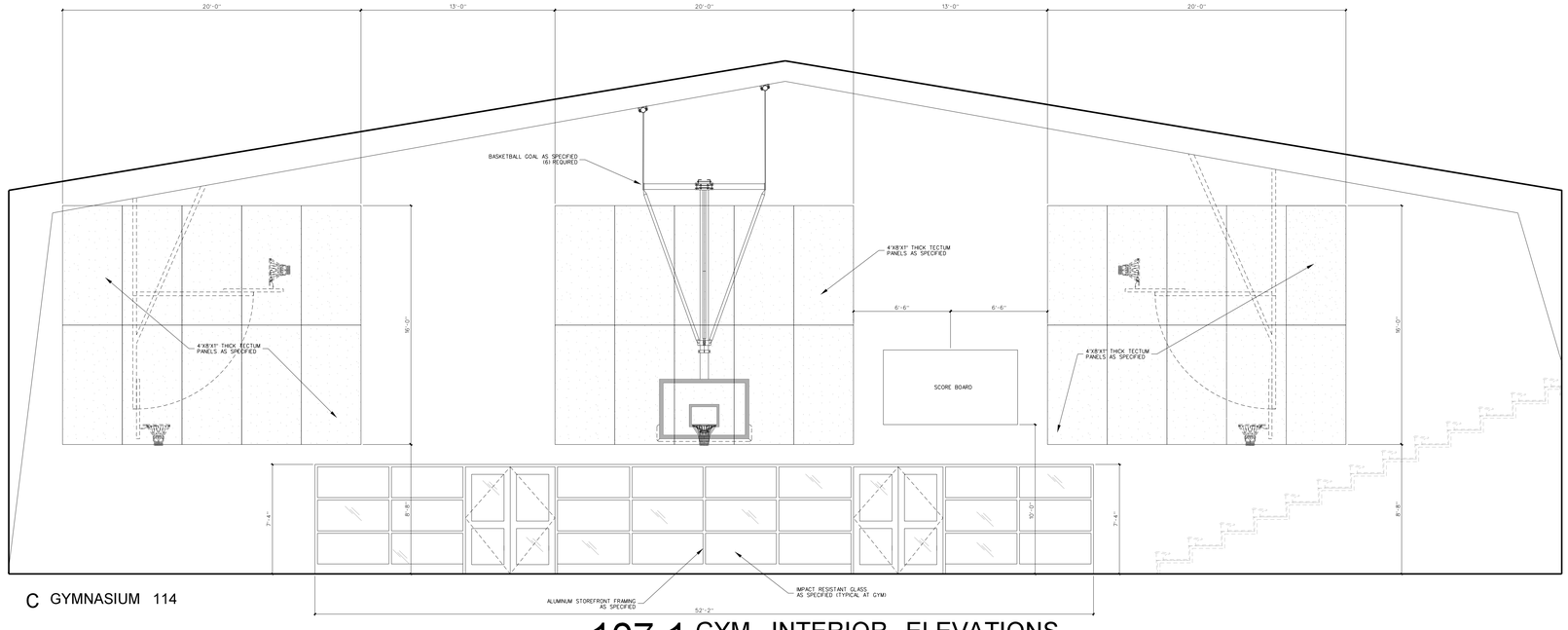


D GYMNASIUM 114



C GYMNASIUM 114

107.1 GYM INTERIOR ELEVATIONS

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

No.	Date	Revision

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JAMES GRAY HITE — REGISTERED ARCHITECT 3734 — GREENVILLE, N.C.

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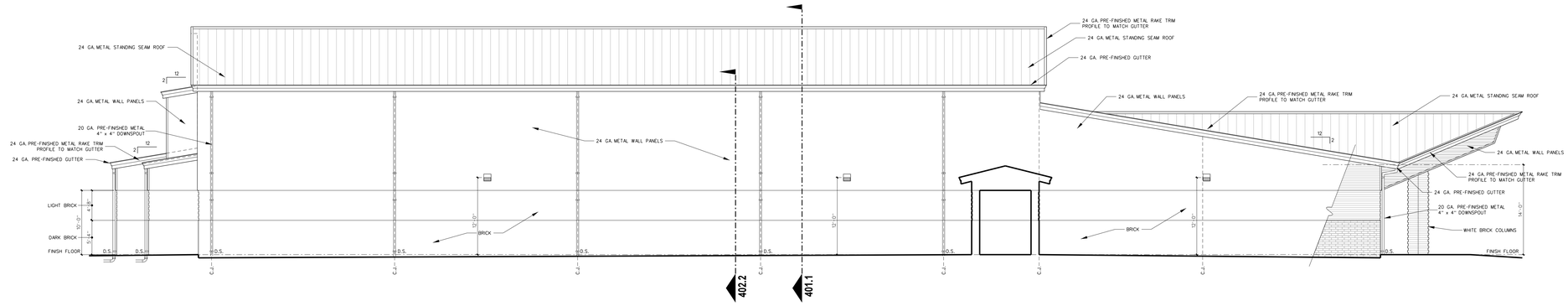
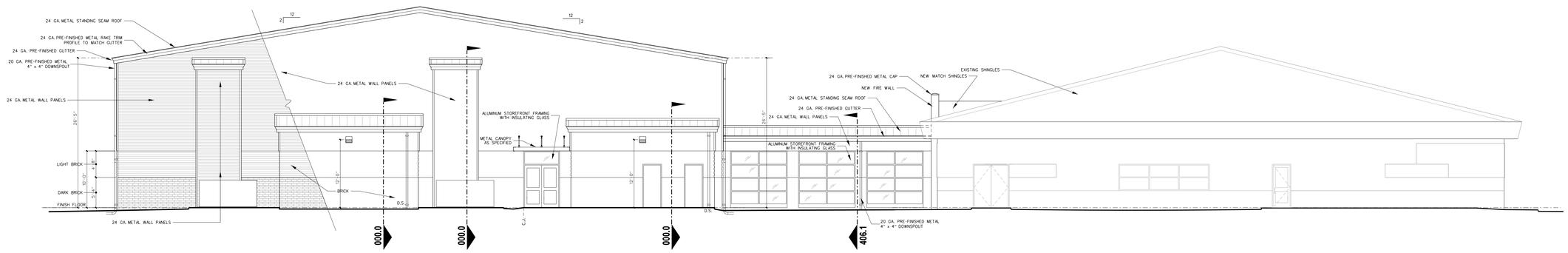
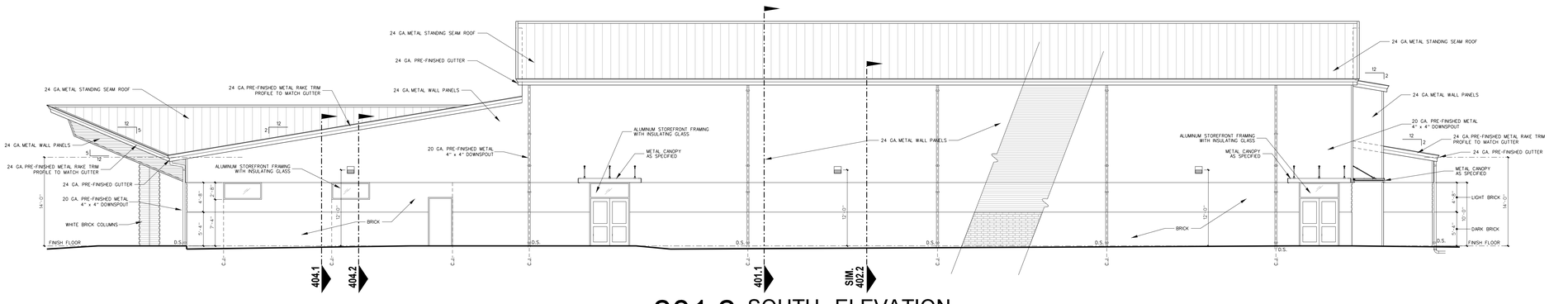


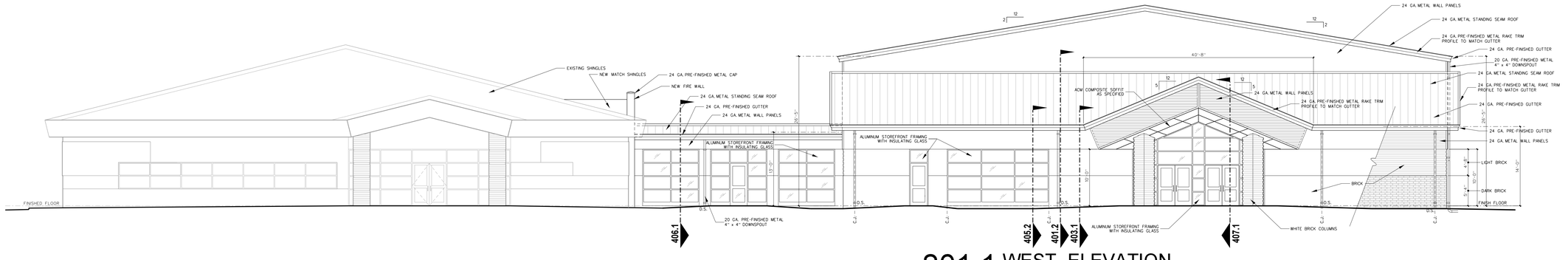
201.4 NORTH ELEVATION
SCALE: 1/8" = 1'-0"



201.3 EAST ELEVATION
SCALE: 1/8" = 1'-0"



201.2 SOUTH ELEVATION
SCALE: 1/8" = 1'-0"



201.1 WEST ELEVATION
SCALE: 1/8" = 1'-0"

No.	Date	Revision

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JAMES GRAY HITE REGISTERED ARCHITECT 3755 GREENVILLE, N.C.

COMMUNITY CENTER AND GYMNASIUM FOR

Alice F. Keene District Park

4561 County Home Road, Greenville, NC 27858

Project No.
22207

Date:
December 1, 2022

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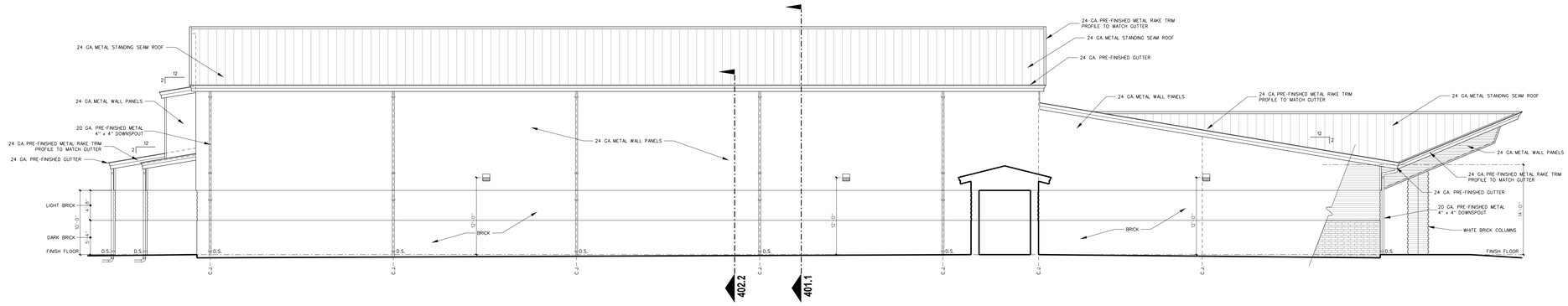
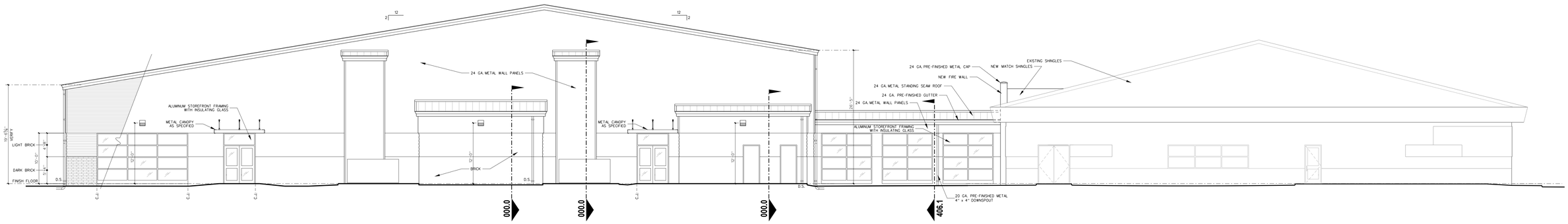
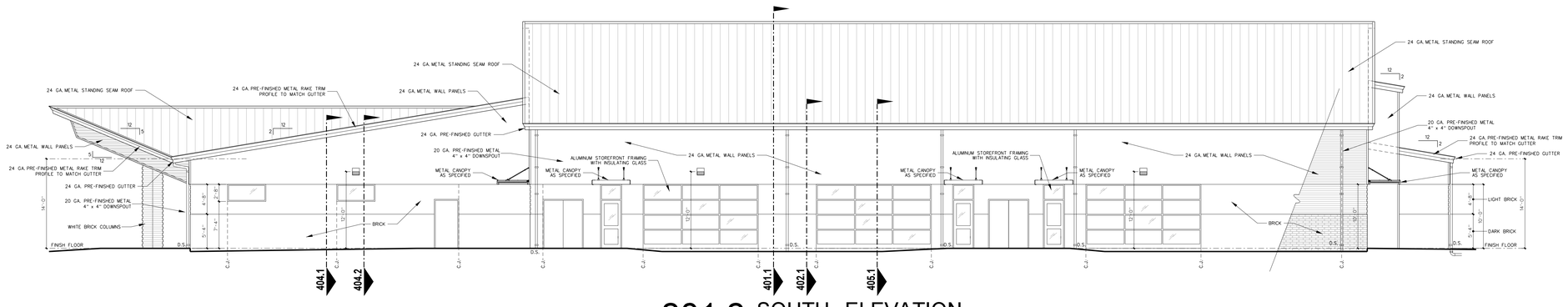


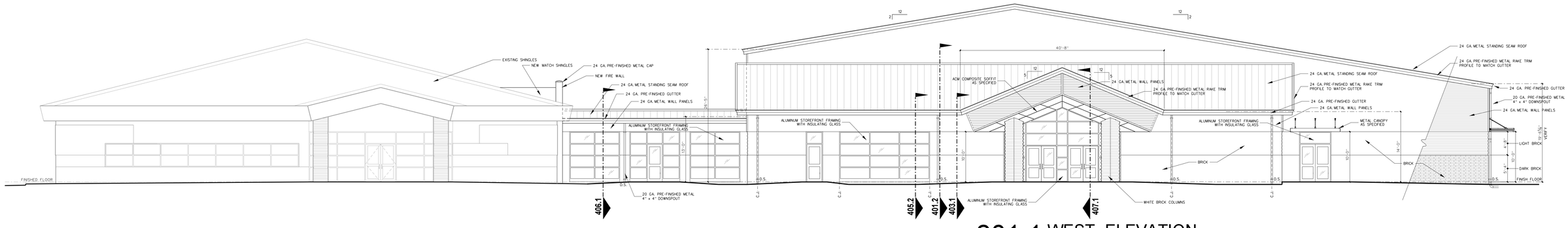
201.4 NORTH ELEVATION
SCALE: 1/8" = 1'-0"



201.3 EAST ELEVATION
SCALE: 1/8" = 1'-0"



201.2 SOUTH ELEVATION
SCALE: 1/8" = 1'-0"



201.1 WEST ELEVATION
SCALE: 1/8" = 1'-0"

No.	Date	Revision

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HITE ASSOCIATES, P.C. — CORPORATE LICENSE NUMBER C-418 — GREENVILLE, NC

JAMES GRAY HITE — REGISTERED ARCHITECT 3755 — GREENVILLE, NC

COMMUNITY CENTER AND GYMNASIUM FOR

Alice F. Keene District Park

4561 County Home Road, Greenville, NC 27858

Project No. 22207

Date: December 1, 2022

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DOOR SCHEDULE - ALT BID

NOTE TO BIDDERS / BUILDER: EXCEL SPREADSHEET AVAILABLE ON REQUEST

MARK		SIZE THK	SIZE WID	SIZE HT	LOCATION	TYPE	DESCRIPTION	FRM WID	FIRE RATING	ELECTRONIC ACCESS CONTROL LOCKSET	ELECTRONIC ACCESS CONTROL EXIT DEVICE	AUTO HANDICAP DOOR OPENER	EXIT DEVICE	CLOSER	CLOSER WITH BACKSTOP	AUTO CLOSING HINGES (1.5PR)	MOP PLATE (10" HT.)	WALL STOP	FLOOR STOP	OVERHEAD STOP	HOOK STOP	PUSH PULL LATCH (1 PAIR)	DEADBOLT WITH THUMBTURN	LATCHBOLT	PASSAGE SET	PRIVACY LOCKSET WITH INDICATOR	LATCH OR OFFICE LOCKSET	CLASSROOM LOCKSET	STOREROOM LOCKSET	DOUBLE DOOR SEAL	MAGNETIC HOLD-OPEN	WIRE RETRO TRIM FOR LEVEL BOTTOM ROD	PROVIDE REINFORCED SHEET ON DOOR BOTTOM	COMMENTS
100A	PAIR	1.75	36	90	LOBBY TO EXTERIOR	AL-2	ALUMINUM / GLASS	4.5		1		1		2																		1	2	
100B	PAIR	1.75	36	90	LOBBY TO EXTERIOR	AL-2	ALUMINUM / GLASS	4.5		1	1	1		2																		1	2	
101A	PAIR	1.75	36	90	CORRIDOR TO EXTERIOR	AL-2	ALUMINUM / GLASS	4.5		1		1		2																		1	2	
102A		1.75	36	86	WOMEN TO LOBBY	WD-1	WOOD	5.875					1				1				1													
102B		1.75	36	86	WOMEN TO SHOWERS	WD-1	WOOD	5.875					1			1					1													
103A		1.75	36	86	MEN TO LOBBY	WD-1	WOOD	5.875					1			1					1										1			
103B		1.75	36	86	MEN TO SHOWERS	WD-1	WOOD	5.875					1			1					1													
104A		1.75	36	86	CONCESSIONS TO LOBBY	WD-2	WOOD / VIEW GLASS	5.875									1									1									
105A		1.75	36	86	MANAGER TO LOBBY	WD-2	WOOD / VIEW GLASS	5.875							1											1									
106A		1.75	36	86	MANAGER TO STORAGE	WD-1	WOOD	5.875							1											1									
107A		1.75	36	86	MECHANICAL TO EXTERIOR	HM-1	STEEL	11.75																		1									1
108A		1.75	36	86	RESTROOM TO CORRIDOR	WD-1	WOOD	10.25							1											1									
109A		1.75	36	86	ACTIVITY ROOM TO LOBBY	WD-2	WOOD / VIEW GLASS	5.875					1													1									
109B		1.75	36	86	ACTIVITY RM. TO STORAGE	WD-1	WOOD	5.875																		1									
109C		1.75	36	90	ACTIVITY RM. TO EXTERIOR	AL-1	ALUMINUM / GLASS	4.5					1		1																					1
110A		1.75	36	86	ACTIVITY ROOM TO MECH.	WD-1	WOOD	5.875							1											1									
111A		1.75	36	86	ACTIVITY ROOM TO LOBBY	WD-2	WOOD / VIEW GLASS	5.875					1		1																					
111B		1.75	36	86	ACTIVITY RM. TO STORAGE	WD-1	WOOD	5.875																		1									
111C		1.75	36	86	ACTIVITY RM. TO CORRIDOR	WD-2	WOOD / VIEW GLASS	10.25					1		1																					
112A		1.75	36	86	JANITOR TO CORRIDOR	WD-1	WOOD	10.25							1											1									
113A		1.75	36	86	CORR. TO PEDEST. WALKWAY	HM-1	STEEL	7.75	1 1/2 HR	1				1																					
113B		1.75	36	86	CORR. TO PEDEST. WALKWAY	WD-2	WOOD / VIEW GLASS	5.875		1			1															1								
113C		1.75	36	90	PEDEST. WALKWAY TO EXT.	AL-1	ALUMINUM / GLASS	4.5		1				1																					1
114A	PAIR	1.75	36	86	GYMNASIUM TO CORRIDOR	WD-4	WOOD / VIEW GLASS	10.25				2		2																		1			
114B	PAIR	1.75	36	86	GYMNASIUM TO CORRIDOR	WD-4	WOOD / VIEW GLASS	10.25				2		2																		1			
114C	PAIR	1.75	36	86	GYMNASIUM TO CORRIDOR	WD-4	WOOD / VIEW GLASS	10.25				2	2			2																1			
114D	PAIR	1.75	36	86	GYMNASIUM TO CORRIDOR	WD-4	WOOD / VIEW GLASS	10.25				2	2			2																1			
114E	PAIR	1.75	36	90	GYMNASIUM TO EXTERIOR	AL-2	ALUMINUM / GLASS	4.5		1		1		2																		1	2		
115A		1.75	36	86	SPRINKLER TO EXTERIOR	HM-1	STEEL	11.75																		1									1
116A		1.75	36	86	ELECTRICAL TO EXTERIOR	HM-1	STEEL	11.75																		1									1
117A	PAIR	1.75	36	86	STORAGE TO GYMNASIUM	WD-3	WOOD	10.25																		1									
117B	PAIR	1.75	36	86	STORAGE TO GYMNASIUM	WD-3	WOOD	10.25																		1									
118A		1.75	36	86	GYMNASIUM TO AV / IT	WD-1	WOOD	10.25	1																										
119A	PAIR	1.75	36	90	CORRIDOR TO EXTERIOR	AL-2	ALUMINUM / GLASS	4.5		1		1		2																		1	2		
120A		1.75	36	86	CORRIDOR TO STORAGE	WD-1	WOOD	5.875																		1									
121A		1.75	36	86	ACTIVITY ROOM TO CORR.	WD-2	WOOD / VIEW GLASS	5.875					1													1									
121B	PAIR	1.75	36	86	STORAGE TO ACTIVITY RM.	WD-3	WOOD	5.875																		1									
121C		1.75	36	90	ACTIVITY RM. TO EXTERIOR	AL-1	ALUMINUM / GLASS	4.5					1		1																					1
121D	PAIR	1.75	36	86	MECHANICAL TO EXTERIOR	HM-2	STEEL	11.75																		1									1
122A		1.75	36	86	ACTIVITY ROOM TO CORR.	WD-2	WOOD / VIEW GLASS	5.875					1													1									
122B	PAIR	1.75	36	86	STORAGE TO ACTIVITY RM.	WD-3	WOOD	5.875																		1									
122C		1.75	36	90	ACTIVITY RM. TO EXTERIOR	AL-1	ALUMINUM / GLASS	4.5					1		1																					1
123A	PAIR	1.75	36	86	MECHANICAL TO EXTERIOR	HM-2	STEEL	11.75																		1									1
124A		1.75	36	86	ACTIVITY ROOM TO CORR.	WD-2	WOOD / VIEW GLASS	5.875					1													1									
124B	PAIR	1.75	36	86	STORAGE TO ACTIVITY RM.	WD-3	WOOD	5.875																		1									
124C		1.75	36	90	ACTIVITY RM. TO EXTERIOR	AL-1	ALUMINUM / GLASS	4.5					1		1																					1
125A	PAIR	1.75	36	86	CORRIDOR TO STORAGE	WD-3	WOOD	5.875																		1									

	NOTES AND GENERAL AND SPECIAL HARDWARE REQUIRED
1	ALL DOORS TO RECEIVE HINGES AS SPECIFIED
2	ALL DOORS TO RECEIVE WALL OR OVERHEAD STOPS TO SUIT CONDITION OF USE. DOORS WITH MAGNETIC HOLD OPENS TO RECEIVE FLOOR STOPS.
3	PROVIDE CLOSERS WITH BACKSTOPS EXTERIOR DOORS AND TO SUIT CONDITION OF USE
4	ALL STEEL FRAMES TO BE PROVIDED WITH SILENCERS
5	EXTERIOR DOORS TO BE PROVIDED WITH WEATHERSTRIPPING AND THRESHOLDS
6	EXIT DEVICES TO BE PROVIDED WITH CYLINDERS
7	AT PAIRS OF DOORS, PULL SIDE, PROVIDE PULL OR LEVER RIGHT SIDE ONLY
8	ALUMINUM DOORS - SEE SPECIFICATIONS FOR HARDWARE NOT INDICATED ABOVE
9	PROVIDE CYLINDERS FOR KEYED MULLIONS SUPPLIED BY ALUMINUM DOOR SUPPLIER
10	PROVIDE SOLID WOOD BLOCKING FOR DOOR STOPS AND HOLD OPEN DEVICES
11	EXIT DEVICES AT EXTERIOR DOORS TO BE NL WITH PULL
12	EXIT DEVICES AT INTERIOR DOORS TO BE CLASSROOM FUNCTION WITH LEVER
13	PROVIDE 4" WIDE STEEL JAMBS FOR DOORS ABUTTING STEEL COLUMNS AND SPECIAL CONDITIONS AS NOTED

DOOR SCHEDULE - BASE BID

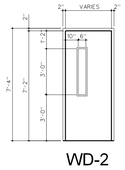
NOTE TO BIDDERS / BUILDER: EXCEL SPREADSHEET AVAILABLE ON REQUEST

MARK		SIZE IK	SIZE WID	SIZE HT	LOCATION	TYPE	DESCRIPTION	FRM WID	FIRE RATING	ELECTRONIC ACCESS CONTROL LOCKSET	ELECTRONIC ACCESS CONTROL EXIT DEVICE	AUTO HANDICAP DOOR OPENER	EXIT DEVICE	CLOSER	CLOSER WITH BACKSTOP	AUTO CLOSING HINGES (1.5PR)	MOP PLATE (10" HT.)	WALL STOP	FLOOR STOP	OVERHEAD STOP	HOOK STOP	PUSH PULL LATCH (1 PAIR)	DEADBOLT WITH THUMBTURN	LATCHBOLT	PASSAGE SET	PRIVACY LOCKSET WITH INDICATOR	LATCH OR OFFICE LOCKSET	CLASSROOM LOCKSET	STOREROOM LOCKSET	DOUBLE DOOR SEAL	MAGNETIC HOLD-OPEN	WIRE RETRO TRIM FOR LEVEL BOTTOM ROD	PROVIDE REINFORCED SHEET ON DOOR BOTTOM	COMMENTS
100A	PAIR	1.75	36	90	LOBBY TO EXTERIOR	AL-2	ALUMINUM / GLASS	4.5		1		1		2																		1	2	
100B	PAIR	1.75	36	90	LOBBY TO EXTERIOR	AL-2	ALUMINUM / GLASS	4.5		1	1	1		2																		1	2	
102A		1.75	36	86	WOMEN TO LOBBY	WD-1	WOOD	5.875					1				1				1													
102B		1.75	36	86	WOMEN TO SHOWERS	WD-1	WOOD	5.875					1			1					1													
103A		1.75	36	86	MEN TO LOBBY	WD-1	WOOD	5.875					1			1					1										1			
103B		1.75	36	86	MEN TO SHOWERS	WD-1	WOOD	5.875					1			1					1													
104A		1.75	36	86	CONCESSIONS TO LOBBY	WD-2	WOOD / VIEW GLASS	5.875									1									1									
105A		1.75	36	86	MANAGER TO LOBBY	WD-2	WOOD / VIEW GLASS	5.875							1											1									
106A		1.75	36	86	MANAGER TO STORAGE	WD-1	WOOD	5.875							1											1									
107A		1.75	36	86	MECHANICAL TO EXTERIOR	HM-1	STEEL	11.75																		1									1
108A		1.75	36	86	RESTROOM TO CORRIDOR	WD-1	WOOD	10.25							1											1									
109A		1.75	36	86	ACTIVITY ROOM TO LOBBY	WD-2	WOOD / VIEW GLASS	5.875					1													1									
109B		1.75	36	86	ACTIVITY RM. TO STORAGE	WD-1	WOOD	5.875																		1									
109C		1.75	36	90	ACTIVITY RM. TO EXTERIOR	AL-1	ALUMINUM / GLASS	4.5					1		1																					1
110A		1.75	36	86	ACTIVITY ROOM TO MECH.	WD-1	WOOD	5.875							1											1									
111A		1.75	36	86	ACTIVITY ROOM TO LOBBY	WD-2	WOOD / VIEW GLASS	5.875					1		1																					
111B		1.75	36	86	ACTIVITY RM. TO STORAGE	WD-1	WOOD	5.875																		1									
111C		1.75	36	86	ACTIVITY RM. TO CORRIDOR	WD-2	WOOD / VIEW GLASS	10.25					1		1																					
112A		1.75	36	86	JANITOR TO CORRIDOR	WD-1	WOOD	10.25							1											1									
113A		1.75	36	86	CORR. TO PEDEST. WALKWAY	HM-1	STEEL	7.75	1 1/2 HR	1				1																					
113B		1.75	36	86	CORR. TO PEDEST. WALKWAY	WD-2	WOOD / VIEW GLASS	5.875		1			1															1								
113C		1.75	36	90	PEDEST. WALKWAY TO EXT.	AL-1	ALUMINUM / GLASS	4.5		1				1																					1
114A	PAIR	1.75	36	86	GYMNASIUM TO CORRIDOR	WD-4	WOOD / VIEW GLASS	10.25				2		2																		1			
114B	PAIR	1.75	36	86	GYMNASIUM TO CORRIDOR	WD-4	WOOD / VIEW GLASS	10.25				2		2																		1			
114C	PAIR	1.75	36	90	GYMNASIUM TO EXTERIOR	AL-2	ALUMINUM / GLASS	4.5				2		2																		1	2		
114D	PAIR	1.75	36	90	GYMNASIUM TO EXTERIOR	AL-2	ALUMINUM / GLASS	4.5				2		2																		1	2		
114E	PAIR	1.75	36	90	GYMNASIUM TO EXTERIOR	AL-2	ALUMINUM / GLASS	4.5		1		1		2																		1	2		
115A		1.75	36	86	SPRINKLER TO EXTERIOR	HM-1	STEEL	11.75																		1									1
116A		1.75	36	86	ELECTRICAL TO EXTERIOR	HM-1	STEEL	11.75																		1									1
117A	PAIR	1.75	36	86	STORAGE TO GYMNASIUM	WD-3	WOOD	10.25																		1									
117B	PAIR	1.75	36	86	STORAGE TO GYMNASIUM	WD-3	WOOD	10.25																		1									
118A		1.75	36	86	GYMNASIUM TO AV / IT	WD-1	WOOD	10.25		1																									

	NOTES AND GENERAL AND SPECIAL HARDWARE REQUIRED
1	ALL DOORS TO RECEIVE HINGES AS SPECIFIED
2	ALL DOORS TO RECEIVE WALL OR OVERHEAD STOPS TO SUIT CONDITION OF USE. DOORS WITH MAGNETIC HOLD OPENS TO RECEIVE FLOOR STOPS.
3	PROVIDE CLOSERS WITH BACKSTOPS EXTERIOR DOORS AND TO SUIT CONDITION OF USE
4	ALL STEEL FRAMES TO BE PROVIDED WITH SILENCERS
5	EXTERIOR DOORS TO BE PROVIDED WITH WEATHERSTRIPPING AND THRESHOLDS
6	EXIT DEVICES TO BE PROVIDED WITH CYLINDERS
7	AT PAIRS OF DOORS, PULL SIDE, PROVIDE PULL OR LEVER RIGHT SIDE ONLY
8	ALUMINUM DOORS - SEE SPECIFICATIONS FOR HARDWARE NOT INDICATED ABOVE
9	PROVIDE CYLINDERS FOR KEYED MULLIONS SUPPLIED BY ALUMINUM DOOR SUPPLIER
10	PROVIDE SOLID WOOD BLOCKING FOR DOOR STOPS AND HOLD OPEN DEVICES
11	EXIT DEVICES AT EXTERIOR DOORS TO BE NL WITH PULL
12	EXIT DEVICES AT INTERIOR DOORS TO BE CLASSROOM FUNCTION WITH LEVER
13	PROVIDE 4" WIDE STEEL JAMBS FOR DOORS ABUTTING STEEL COLUMNS AND SPECIAL CONDITIONS AS NOTED

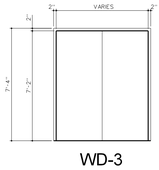
WD-1

SOLID CORE FLUSH WOOD IN STEEL FRAME



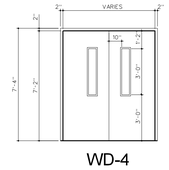
WD-2

SOLID CORE FLUSH WOOD WITH IMPACT SAFETY GLASS IN STEEL FRAME WITH



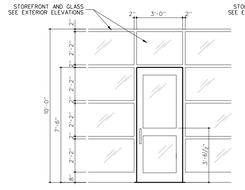
WD-3

SOLID CORE FLUSH WOOD IN STEEL FRAME



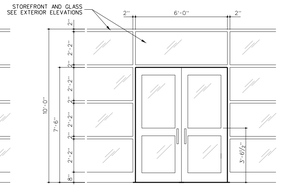
WD-4

SOLID CORE FLUSH WOOD WITH IMPACT SAFETY GLASS IN STEEL FRAME WITH FIRE RATING AS SCHEDULED



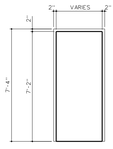
AL-1

WIDE STILE ALUMINUM AND 1/4 " TEMPERED GLASS IN ALUMINUM STOREFRONT FRAME



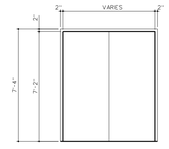
AL-2

WIDE STILE ALUMINUM AND 1/4 " TEMPERED GLASS IN ALUMINUM STOREFRONT FRAME



HM-1

FLUSH STEEL IN STEEL FRAME



HM-2

FLUSH STEEL IN STEEL FRAME

NOTE: ALL STEEL DOORS AND DOOR FRAMES TO BE GALVANIZED.

301.1 DOOR ELEVATIONS

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

No.	Date	Revision

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HITE ASSOCIATES, P.C. ARCHITECTURAL CORPORATION CERTIFICATE NUMBER C-0418 GREENVILLE, NORTH CAROLINA

JAMES GRAY HITE REGISTERED ARCHITECT 3754 GREENVILLE, NORTH CAROLINA

COMMUNITY CENTER AND GYMNASIUM FOR

Alice F. Keene District Park

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Project No. 22207

Date: December 1, 2022

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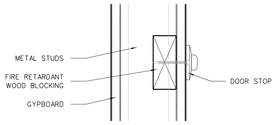
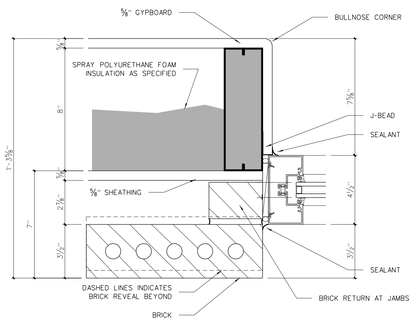
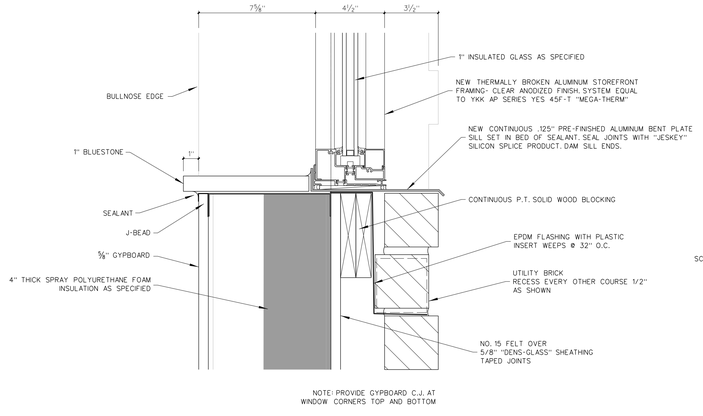


302.12 DOOR STOP DETAIL
SCALE: 3" = 1'-0"

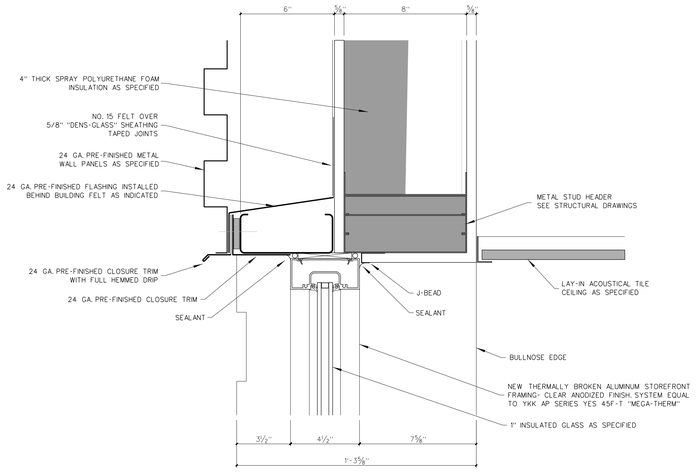


302.11 JAMB

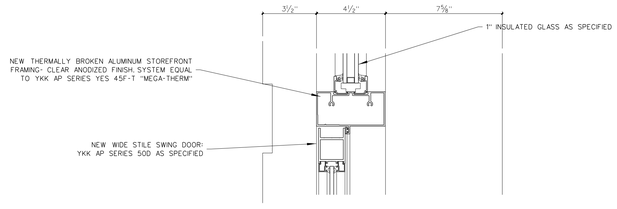


NOTE: PROVIDE GYPBOARD C.J. AT WINDOW CORNERS TOP AND BOTTOM

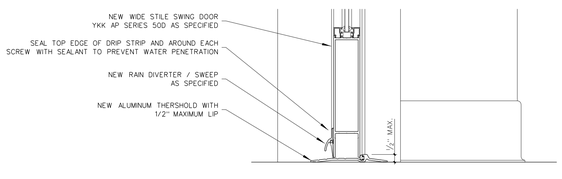
302.10 SILL



302.9 TRANSOM / WINDOW HEAD
SCALE: 3" = 1'-0"

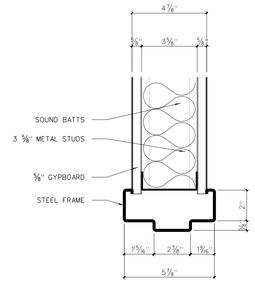


302.8 DOOR HEAD
SCALE: 3" = 1'-0"

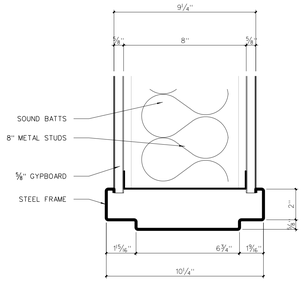


302.7 DOOR THRESHOLD DETAIL
SCALE: 3" = 1'-0"

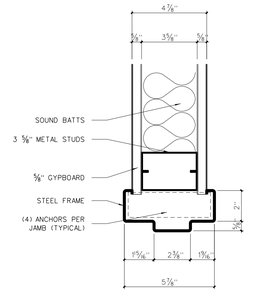
302 WINDOW DETAILS
SCALE: 3" = 1'-0"



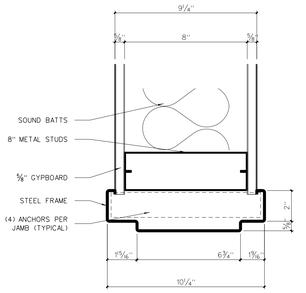
302.6 HEAD



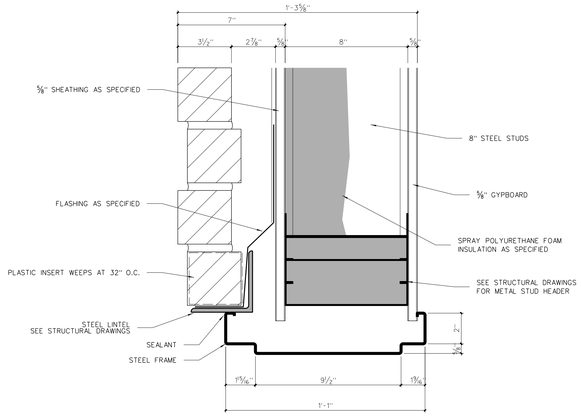
302.5 HEAD



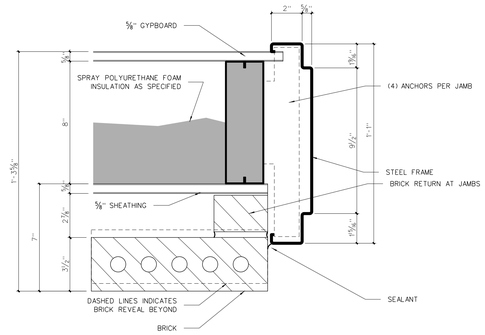
302.4 JAMB



302.3 JAMB



302.2 HEAD



302.1 JAMB

302 DOOR FRAME DETAILS
SCALE: 3" = 1'-0"

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No.	Date	Revision

COMMUNITY CENTER AND GYMNASIUM FOR
Alice F. Keene District Park
4561 County Home Road, Greenville, NC 27858

Project No.	22207
Date:	December 1, 2022
Drawing no.	A 302

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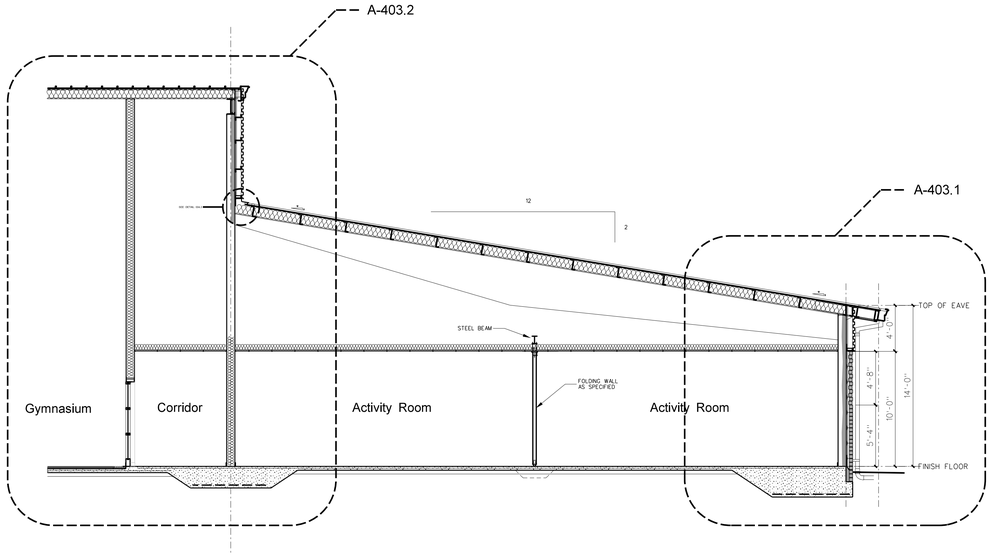
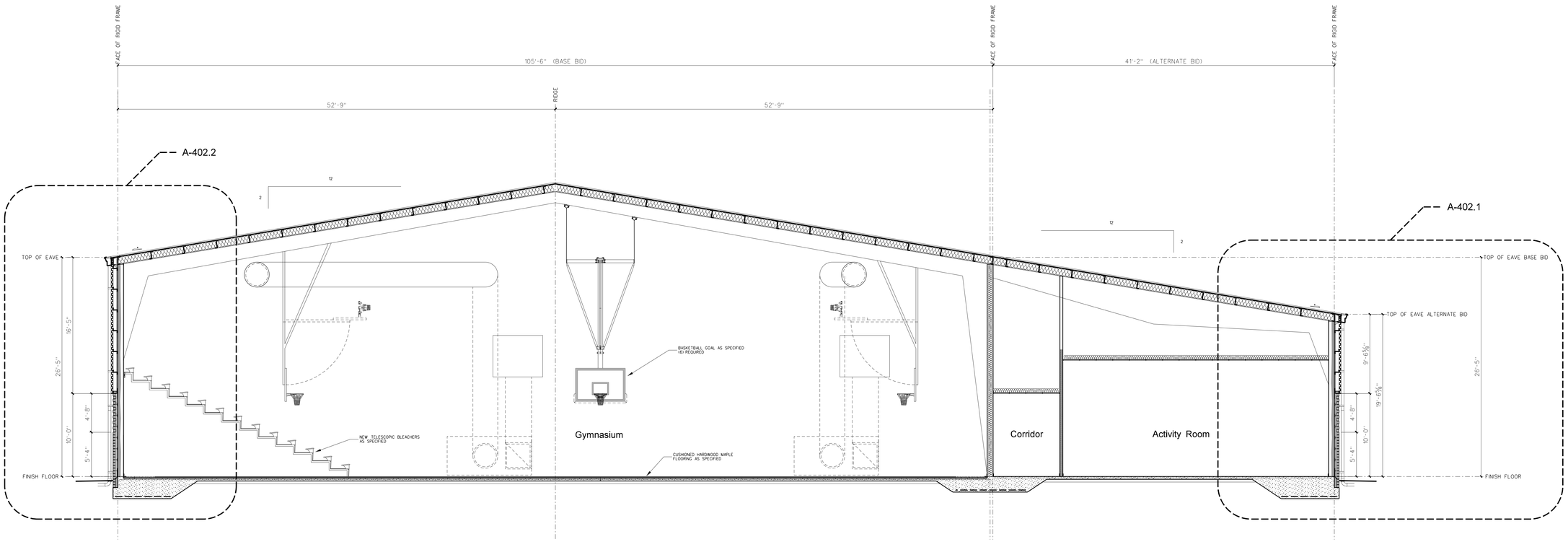


401.2 BUILDING SECTION
SCALE: 3/16" = 1'-0"



401.1 BUILDING SECTION AT GYM
SCALE: 3/16" = 1'-0"

No.	Date	Revision

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2600 Meridian Drive / Greenville, NC 27834 / tel (252) 757-0333

HITE ASSOCIATES, P.C. ARCHITECTURAL CORPORATION REGISTERED CERTIFICATE NUMBER C-418 GREENVILLE, N.C.

JAMES GRAY HITE REGISTERED ARCHITECT 3754 GREENVILLE, N.C.

COMMUNITY CENTER AND GYMNASIUM FOR

Alice F. Keene District Park

4561 County Home Road, Greenville, NC 27858

Project No.: 22207

Date: December 1, 2022

Drawing no.: A 401

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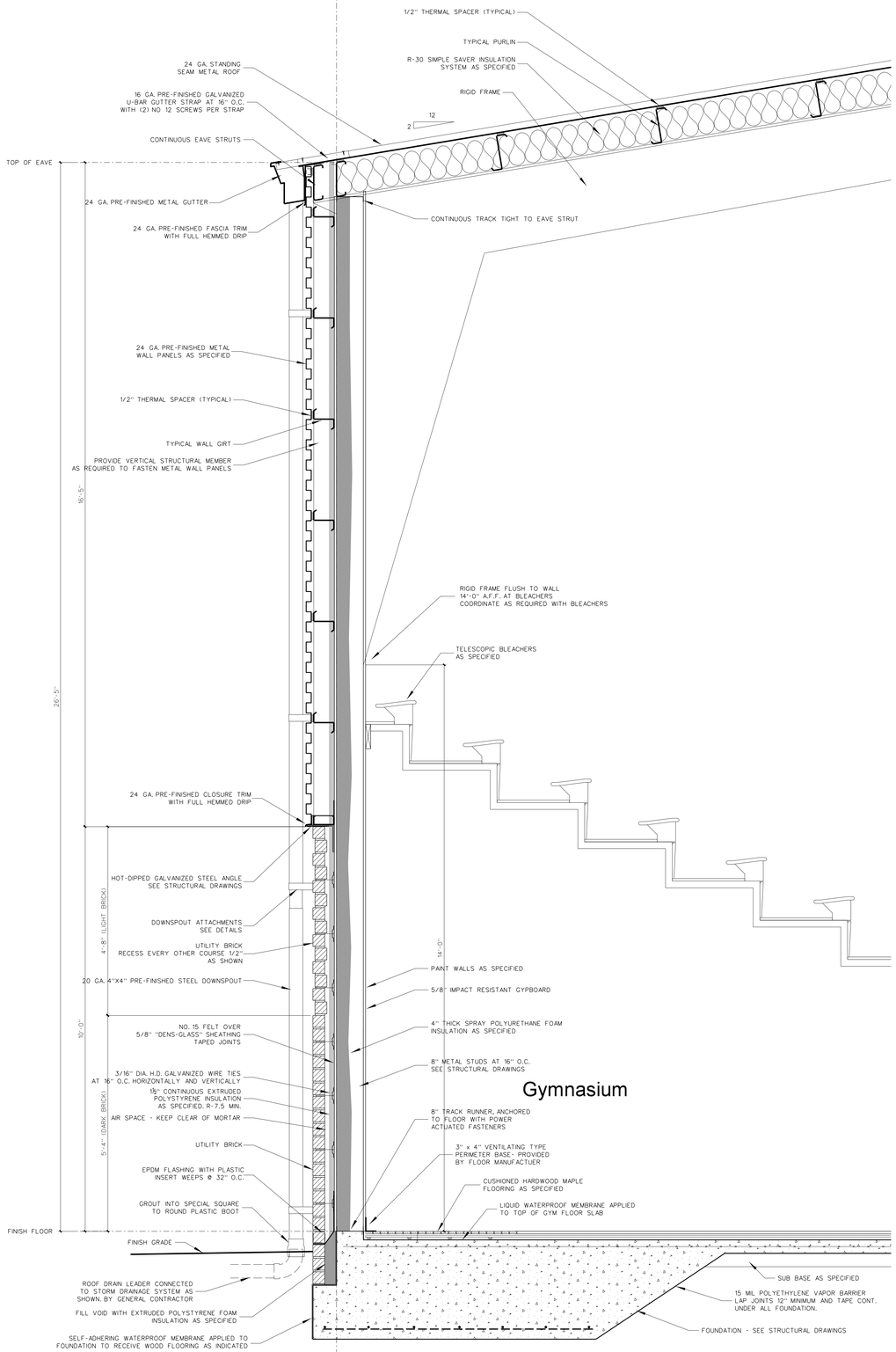
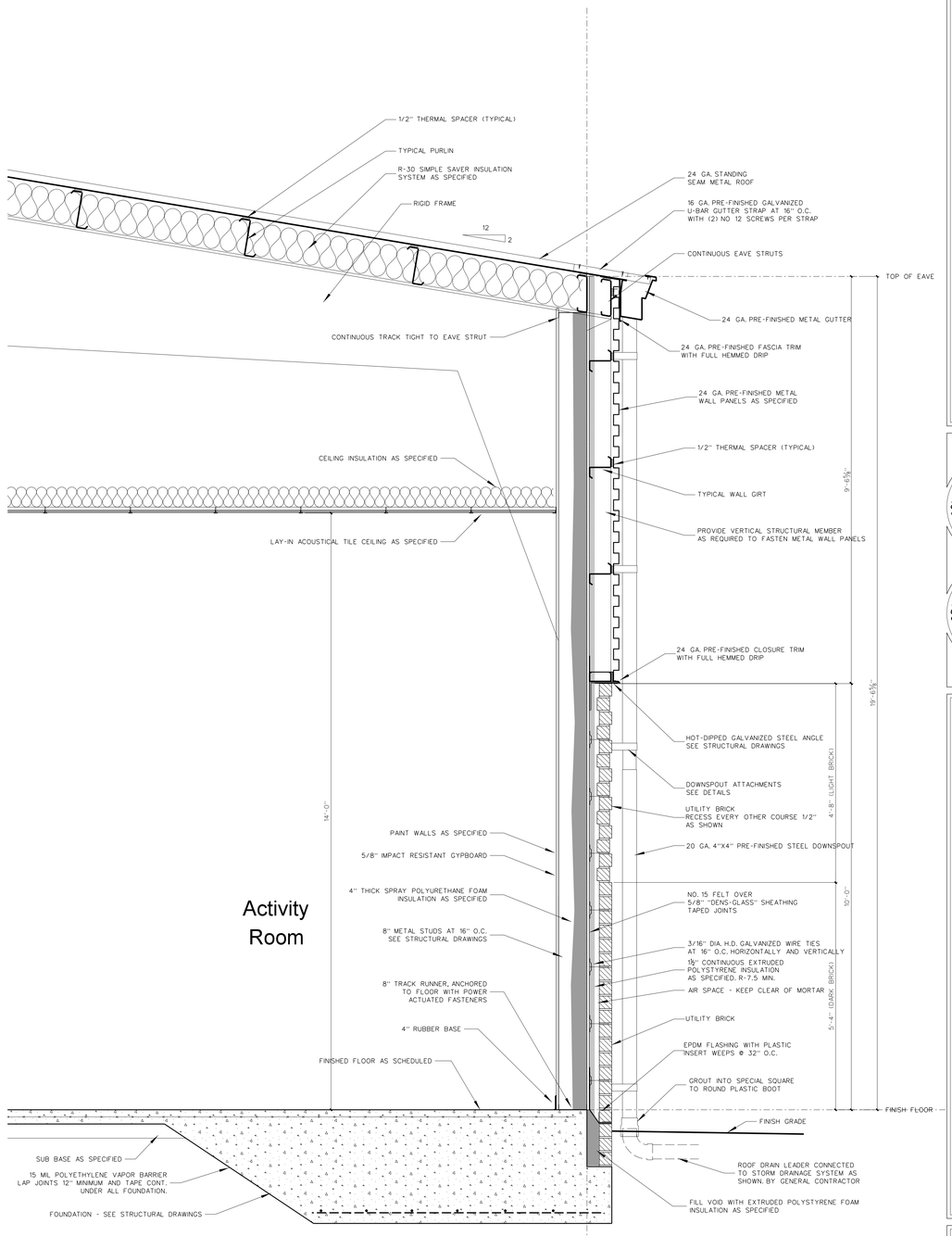


402.2 WALL SECTION
SCALE: 3/4" = 1'-0"



402.1 WALL SECTION
SCALE: 3/4" = 1'-0"

No.	Date	Revision

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2600 Meridian Drive / Greenville, NC 27834 / tel (252) 757-0333

HITE ASSOCIATES, P.C. — CERTIFICATE OF INCORPORATION NUMBER C-0418 — REGISTERED — GREENVILLE, N.C.

JAMES GRAY HITE — REGISTERED ARCHITECT 3754 — NORTH CAROLINA — GREENVILLE, N.C.

COMMUNITY CENTER AND GYMNASIUM FOR

Alice F. Keene District Park

4561 County Home Road, Greenville, NC 27858

Project No. 22207

Date: December 1, 2022

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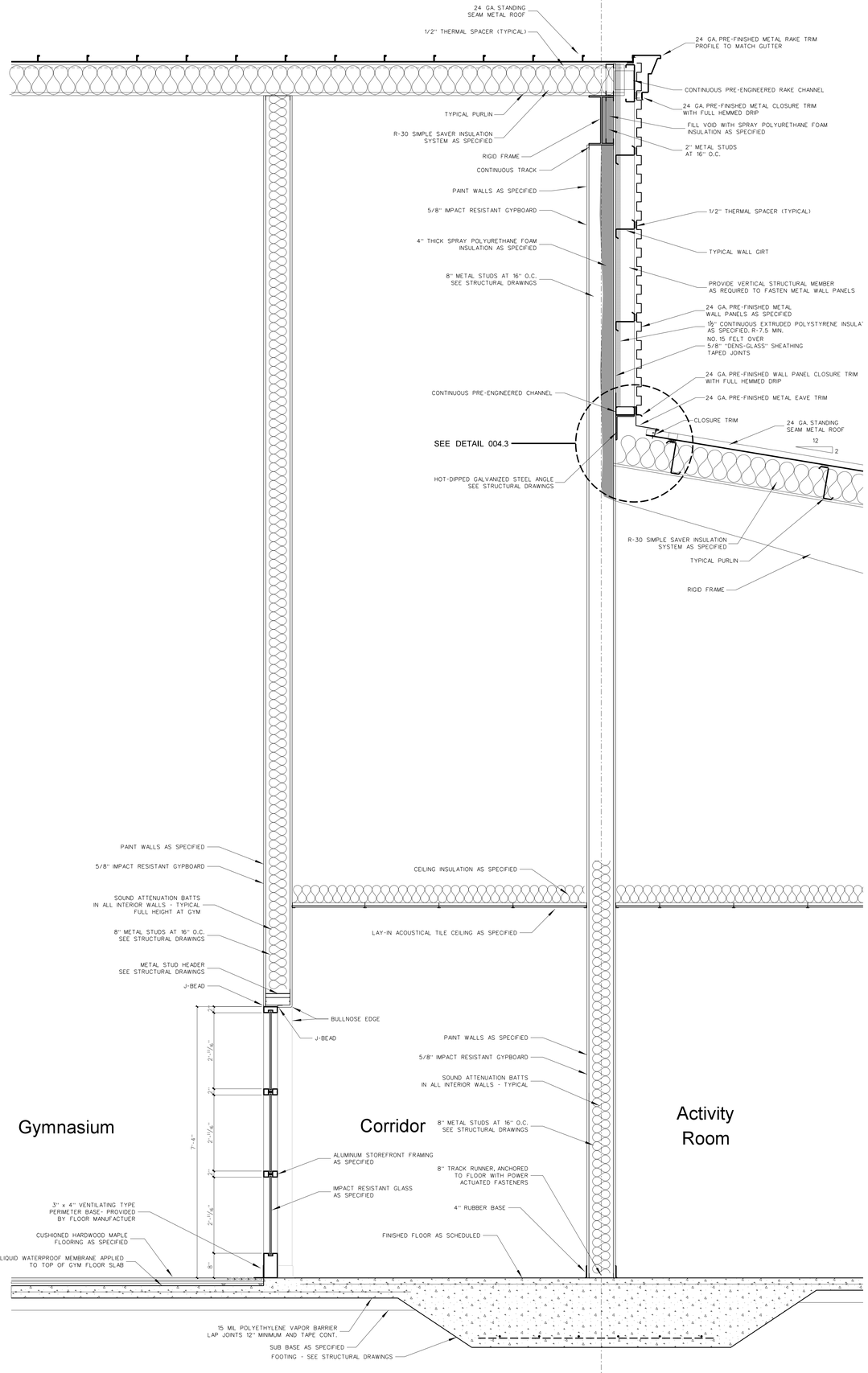
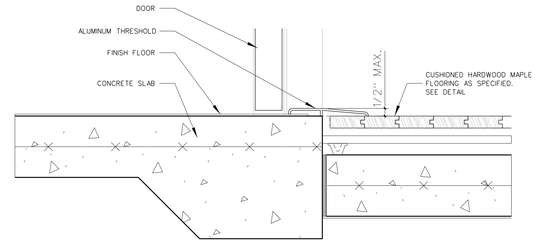
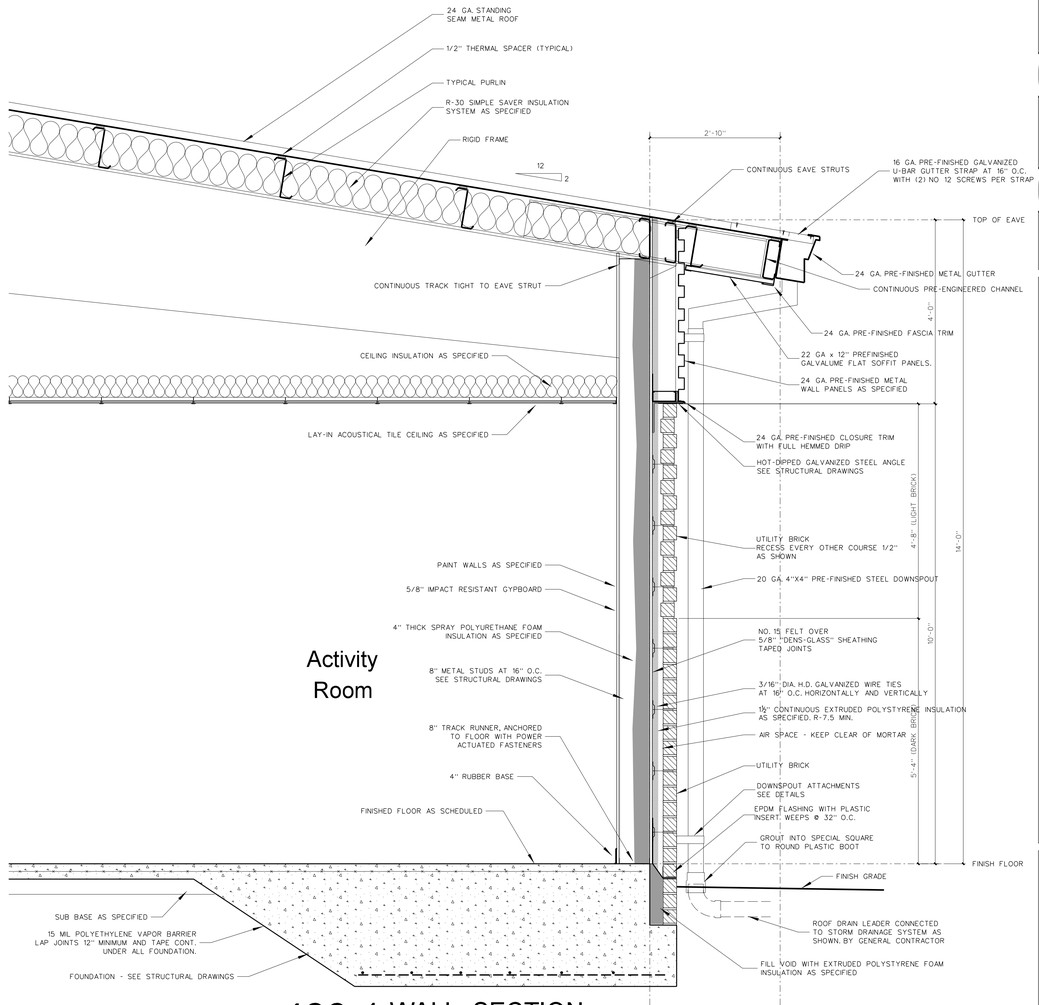


403.2 WALL SECTION
SCALE: 3/4" = 1'-0"



403.3 GYM THRESHOLD DETAIL
SCALE: 3" = 1'-0"



403.1 WALL SECTION
SCALE: 3/4" = 1'-0"

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No.	Date	Revision

HITE ASSOCIATES, P.C. — CERTIFICATE OF INCORPORATION — CERTIFICATE NUMBER C-4418 — STATE OF NORTH CAROLINA — 12/31/1938 — GREENVILLE

JAMES GRAY HITE — REGISTERED ARCHITECT 3754 — STATE OF NORTH CAROLINA — GREENVILLE

COMMUNITY CENTER AND GYMNASIUM FOR

Alice F. Keene District Park

4561 County Home Road, Greenville, NC 27858

Project No.	22207
Date:	December 1, 2022
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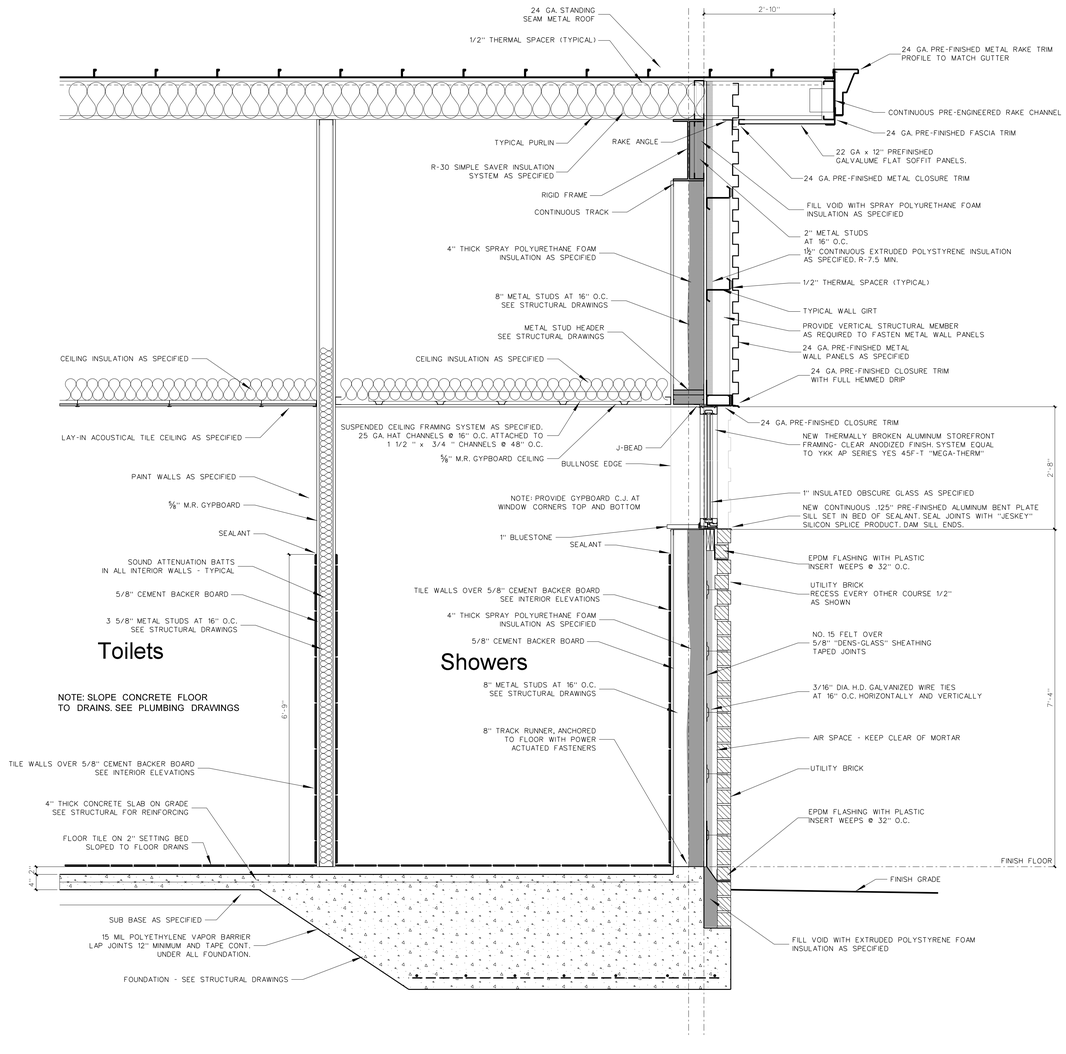
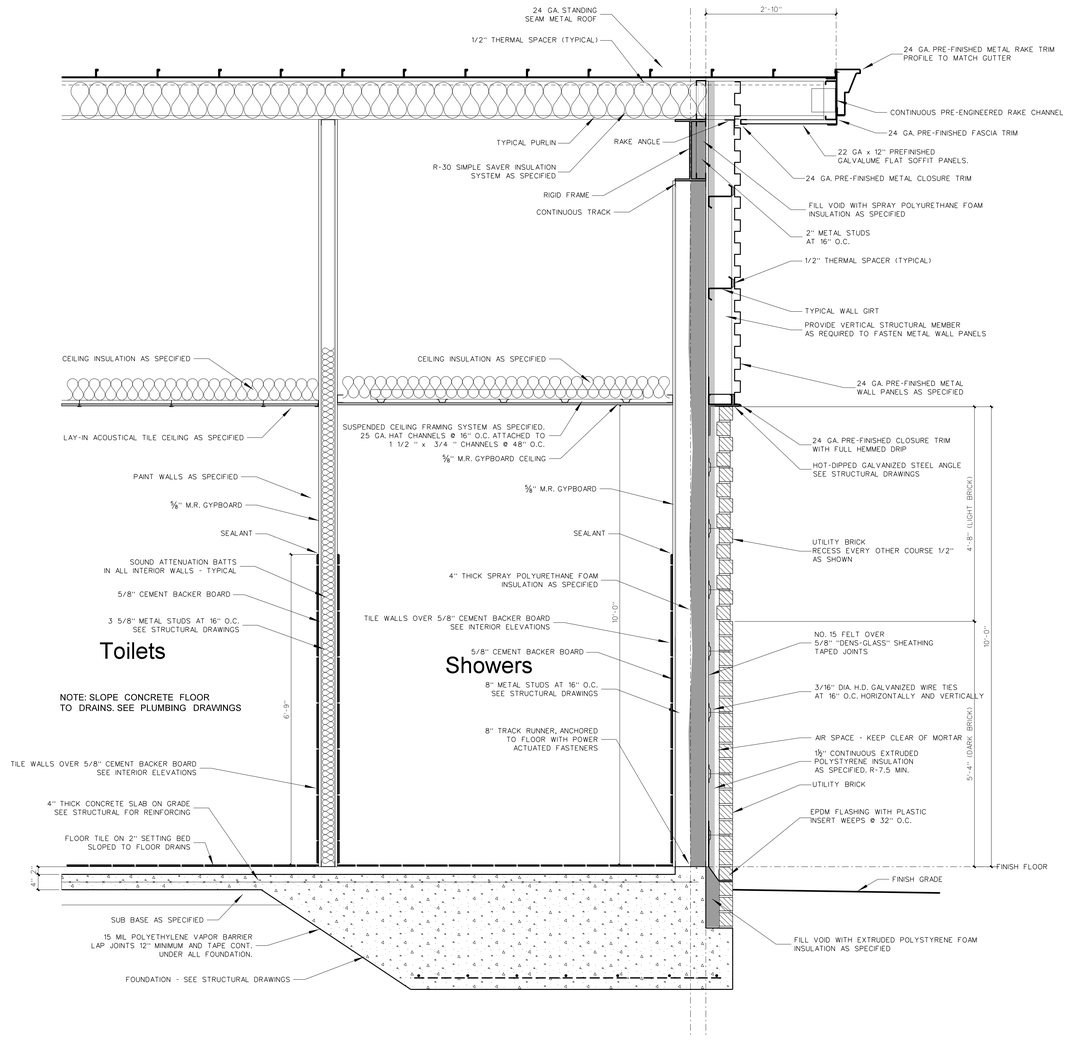


404.2 WALL SECTION AT WINDOW
SCALE: 3/4" = 1'-0"



404.1 WALL SECTION
SCALE: 3/4" = 1'-0"

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Alice F. Keene District Park

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Project No.
22207

Date
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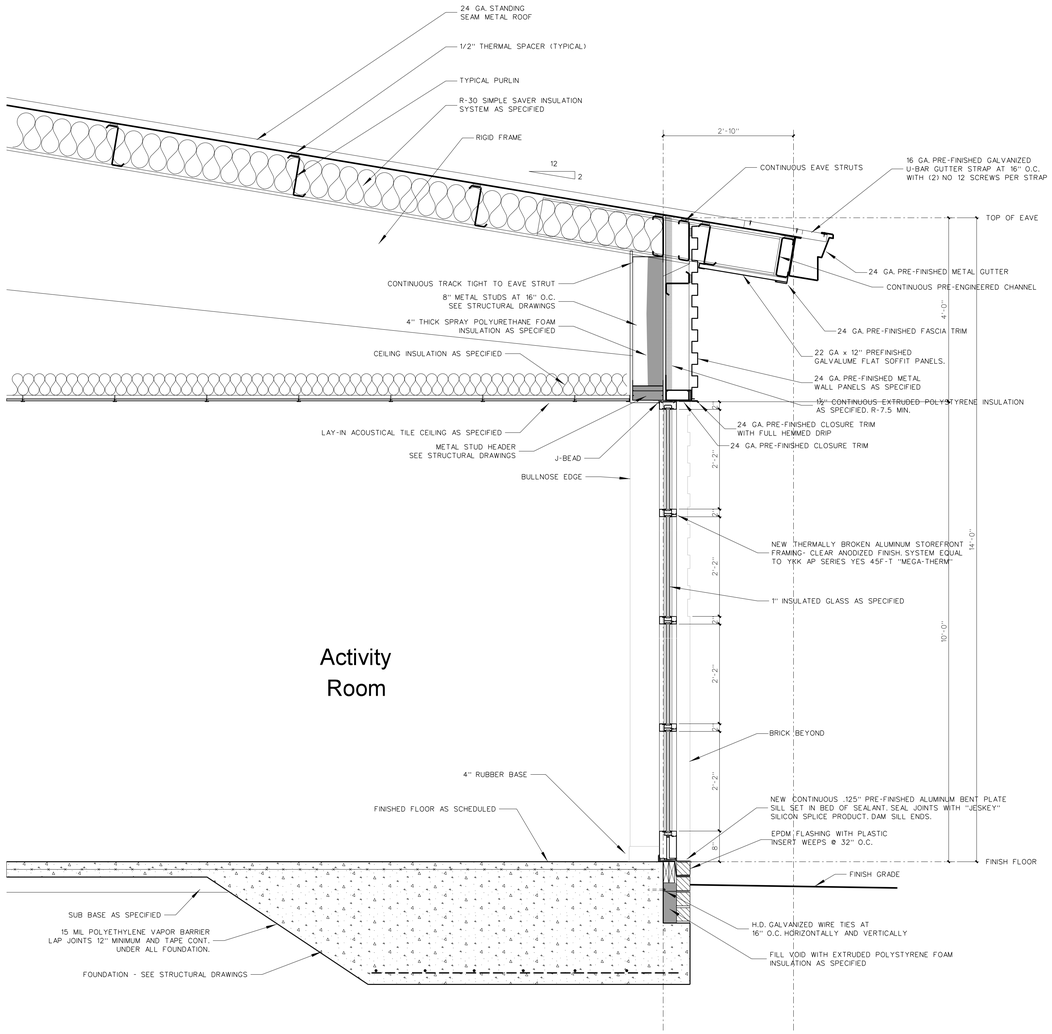

405.2 WALL SECTION AT WINDOW
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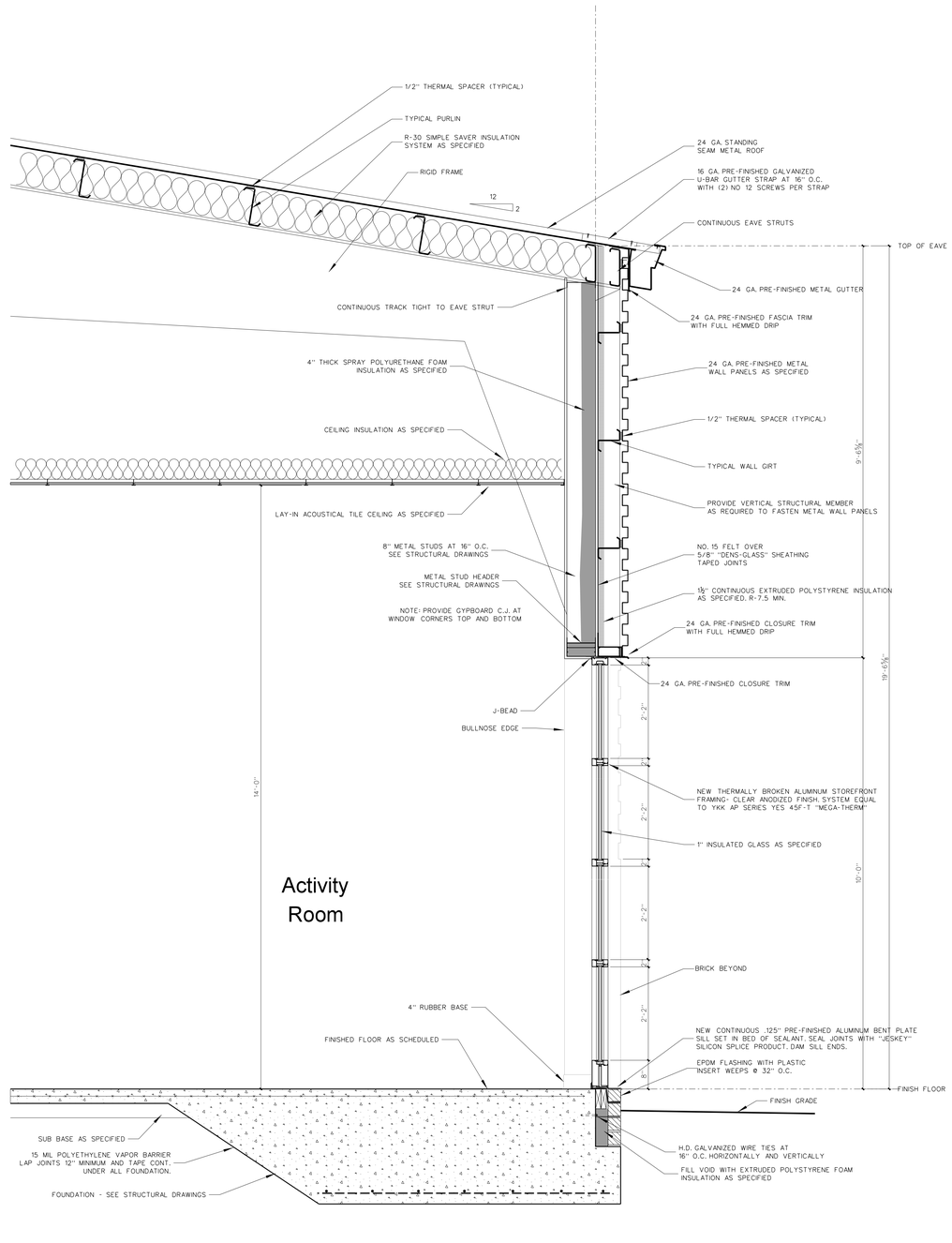

405.1 WALL SECTION AT WINDOW (ALTERNATE BID)
SCALE: 3/4" = 1'-0"

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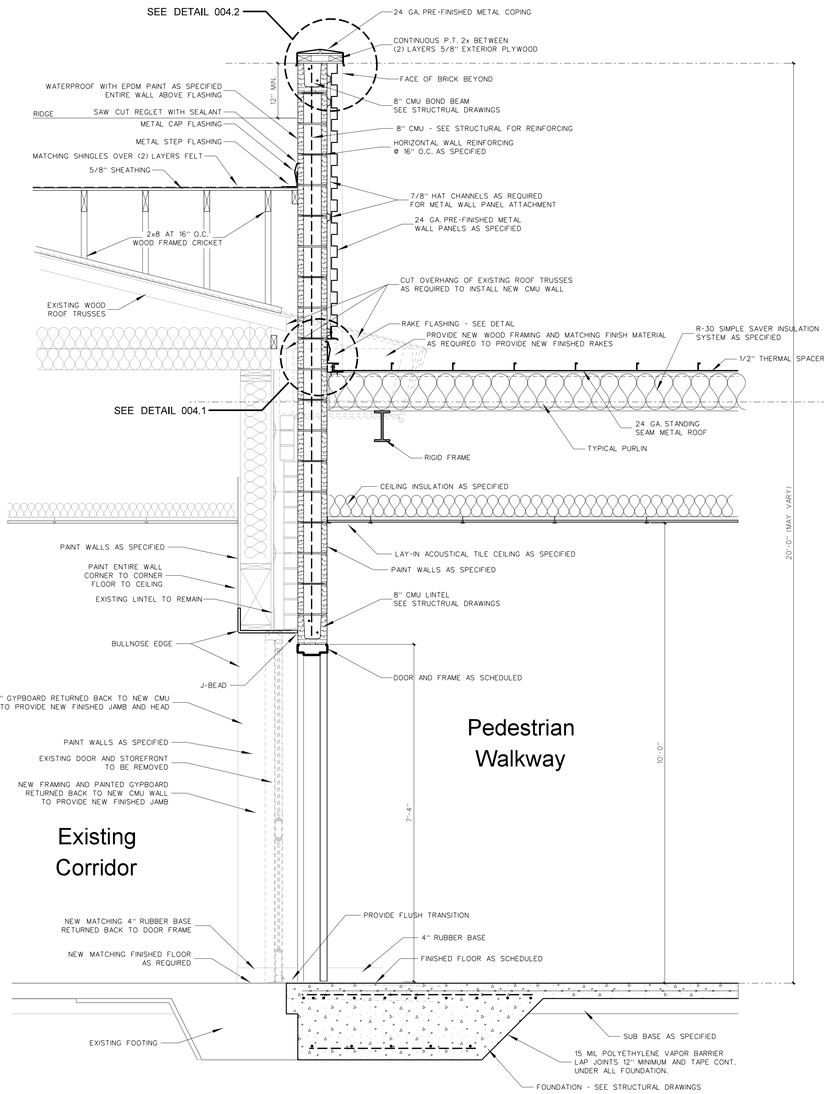
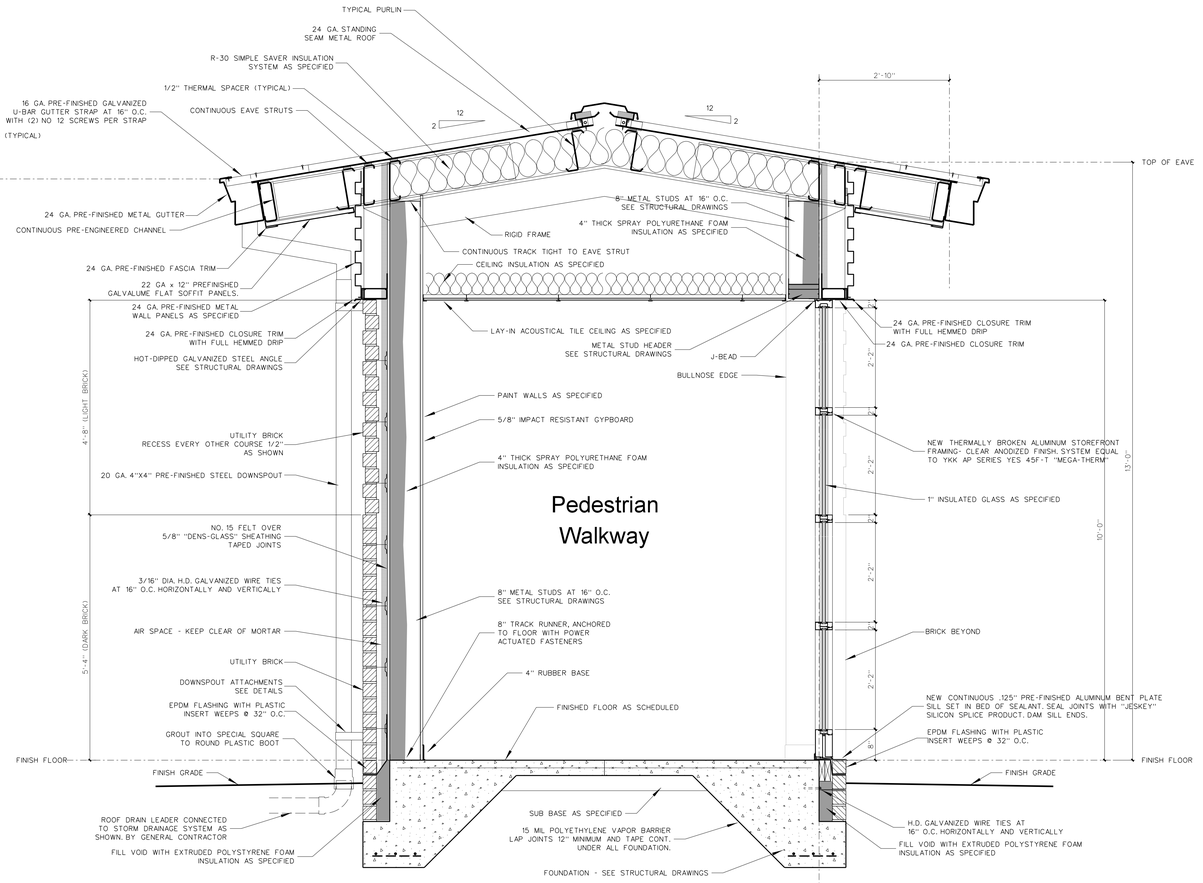


406.2 WALL SECTION AT FIRE BARRIER
SCALE: 3/4" = 1'-0"



406.1 WALL SECTION AT PEDESTRIAN WALKWAY
SCALE: 3/4" = 1'-0"

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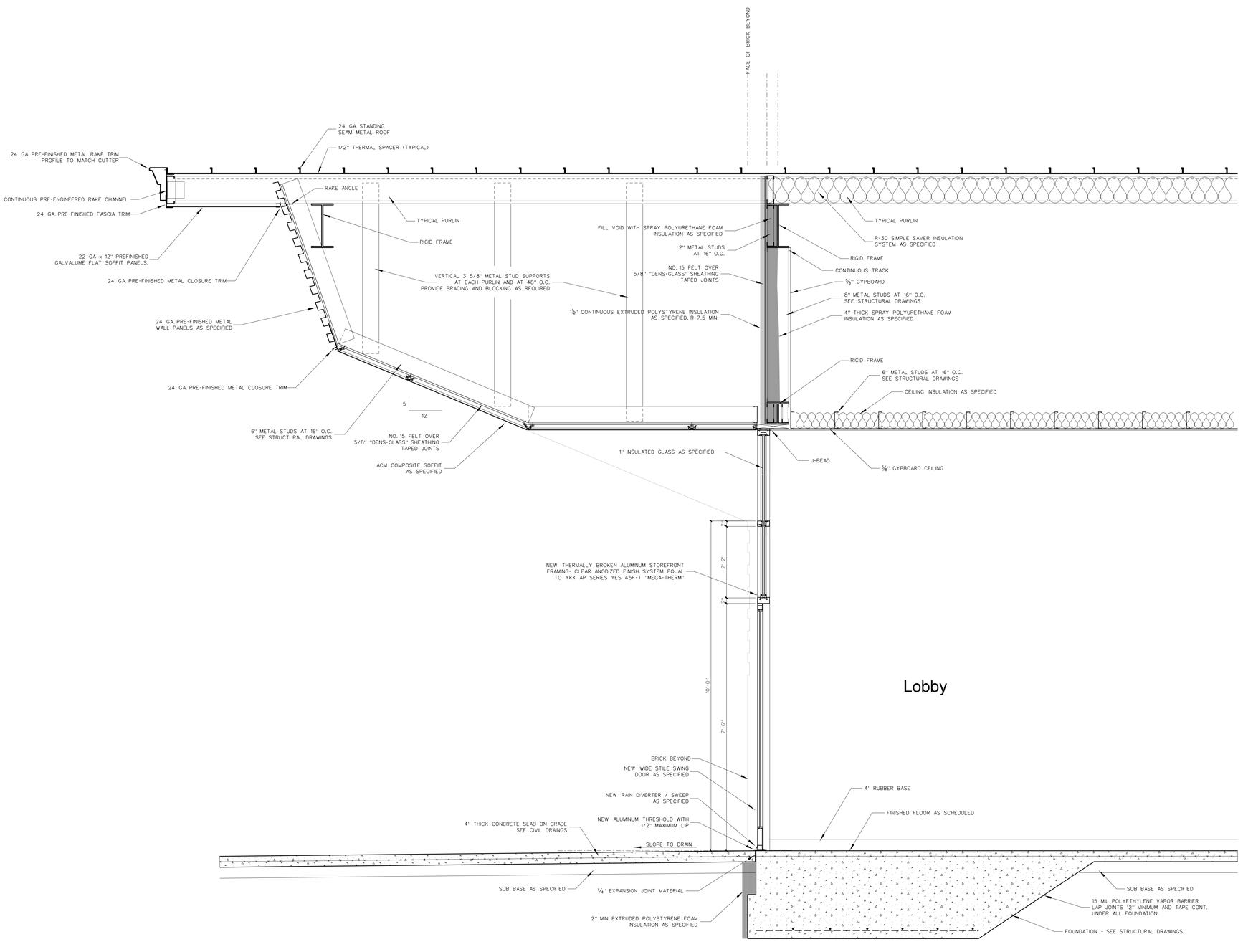

407.1 WALL SECTION AT FRONT ENTRY
SCALE: 3/4" = 1'-0"

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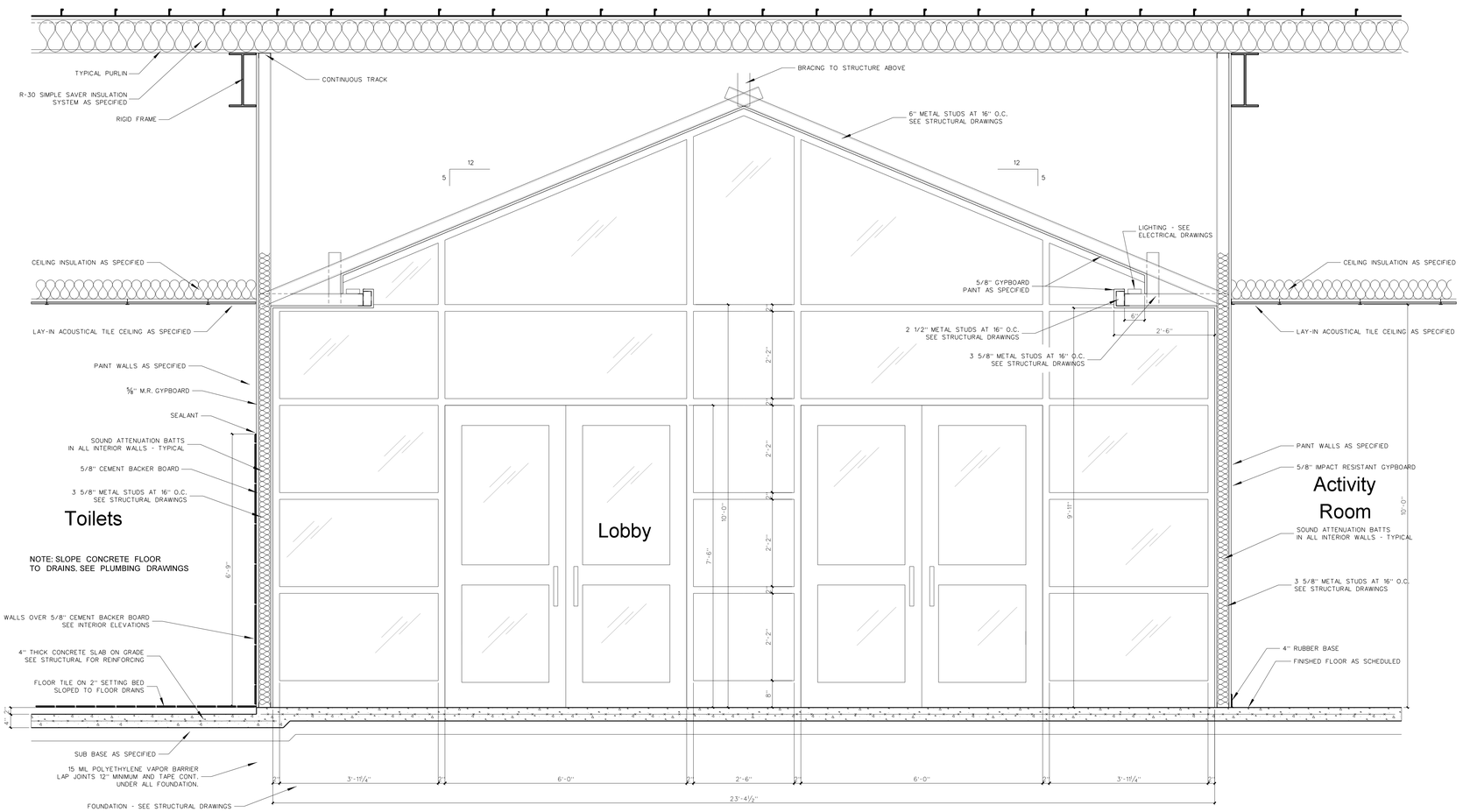

408.1 WALL SECTION AT FRONT LOBBY

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

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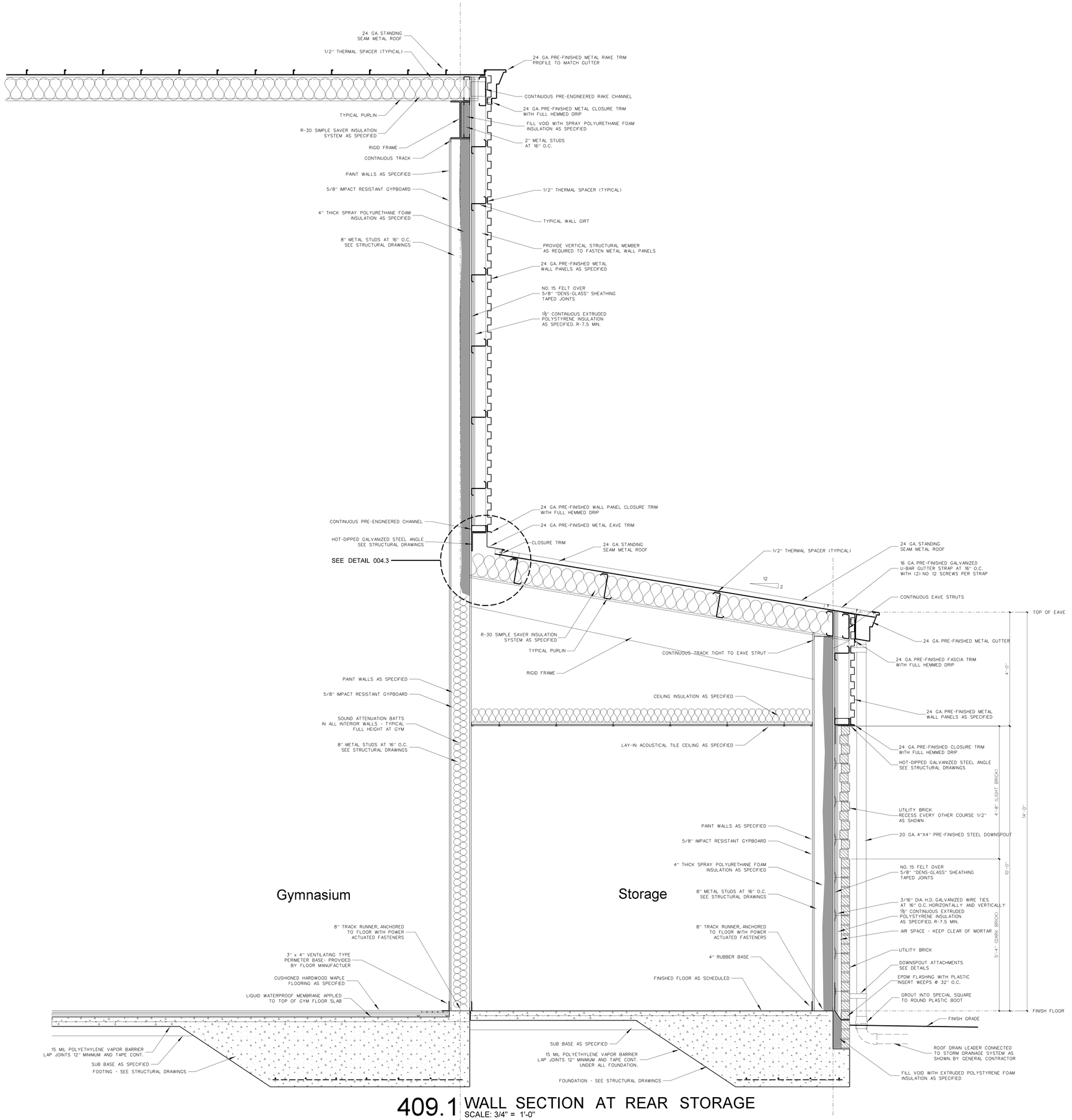

409.1 WALL SECTION AT REAR STORAGE
SCALE: 3/4" = 1'-0"

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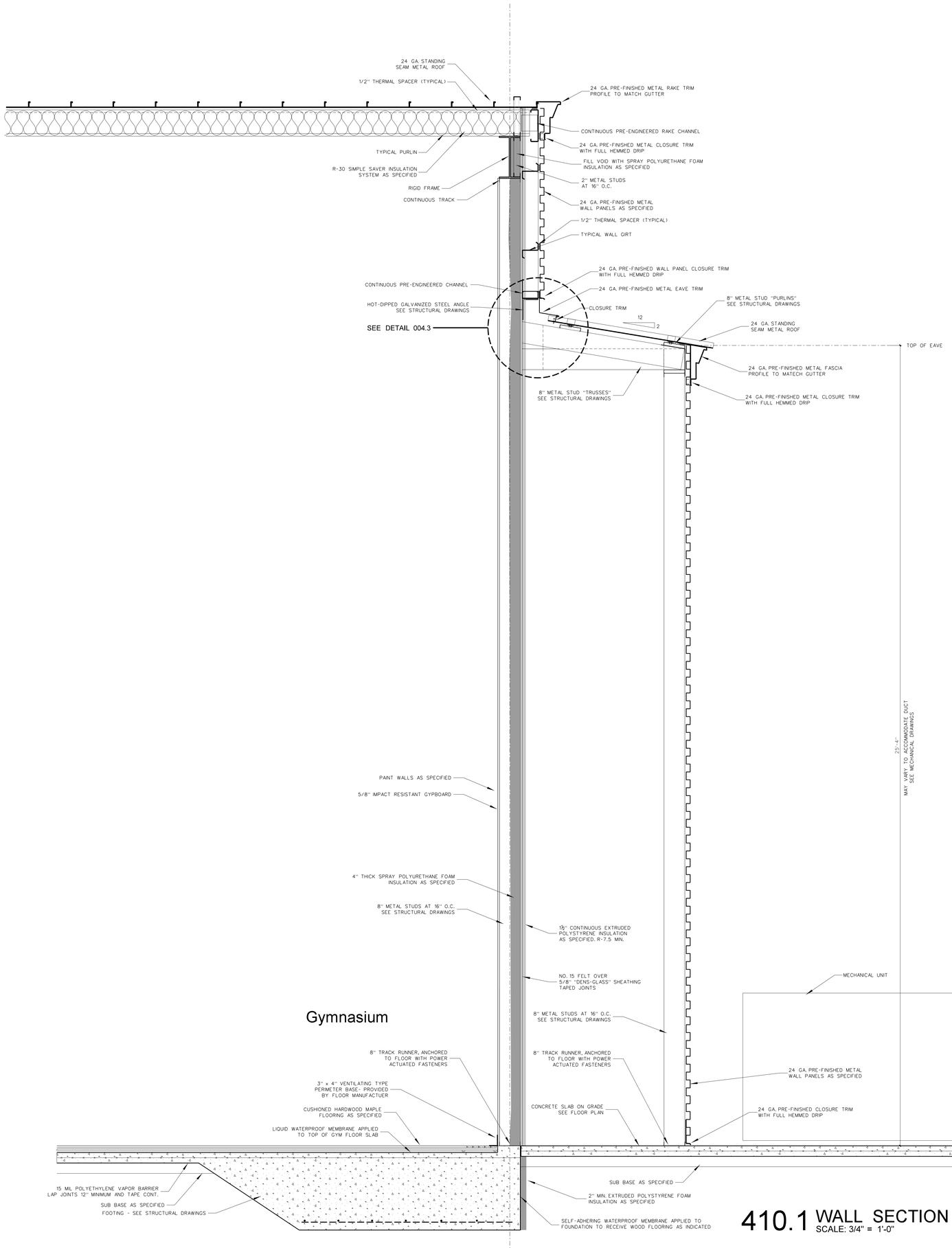

410.1 WALL SECTION AT DUCT CHASES
SCALE: 3/4" = 1'-0"

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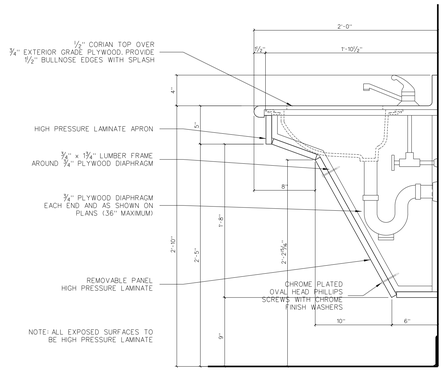
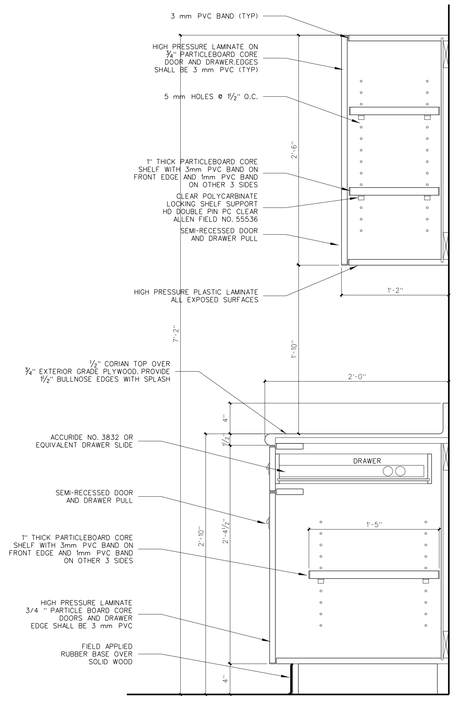
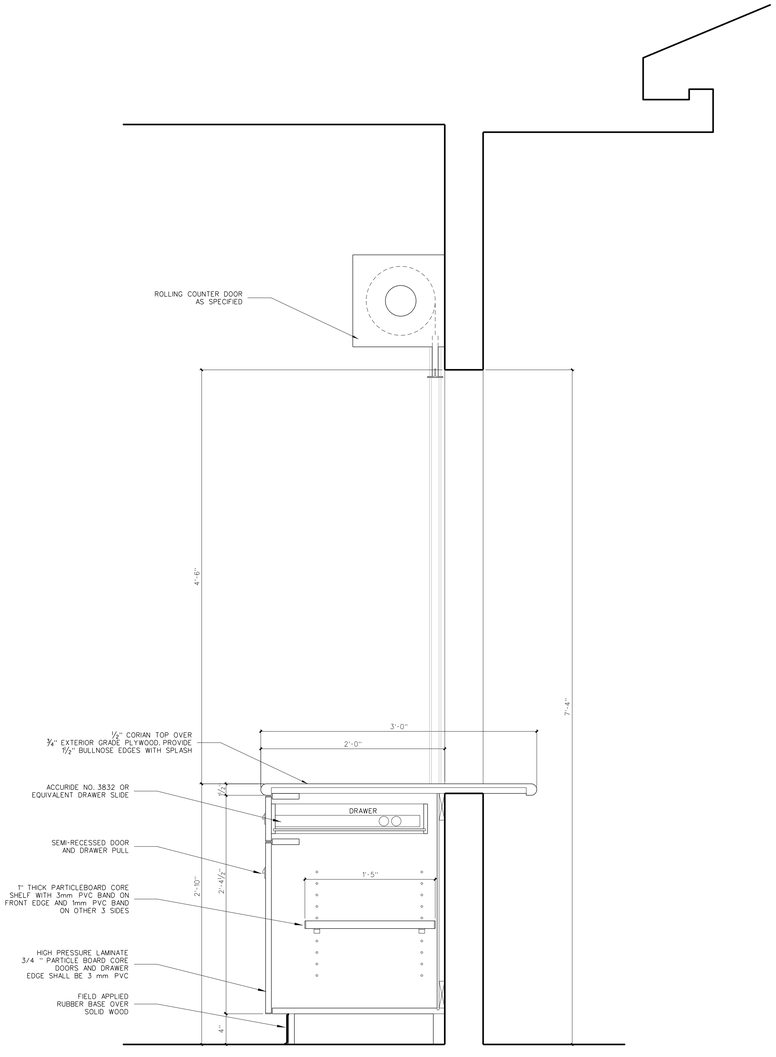


501.3 SECTION AT VANITIES
SCALE: 1 1/2" = 1'-0"



501.2 SECTION AT 34" CABINETS
SCALE: 1 1/2" = 1'-0"



501.1 SECTION AT CONCESSIONS ROLLING DOOR
SCALE: 1 1/2" = 1'-0"

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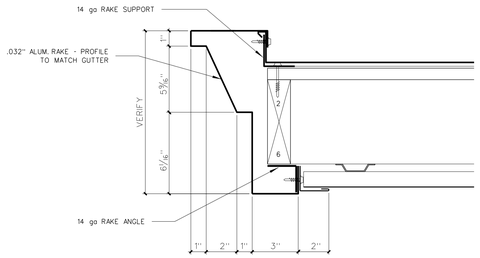
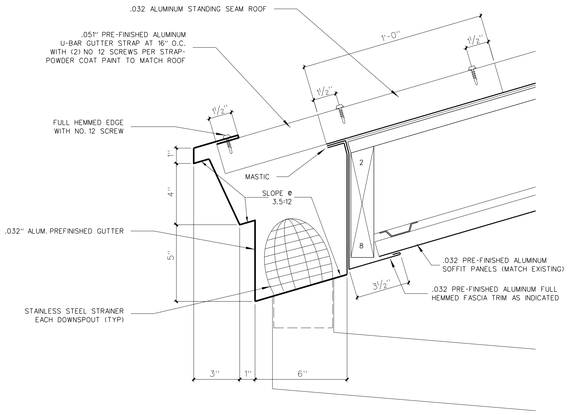
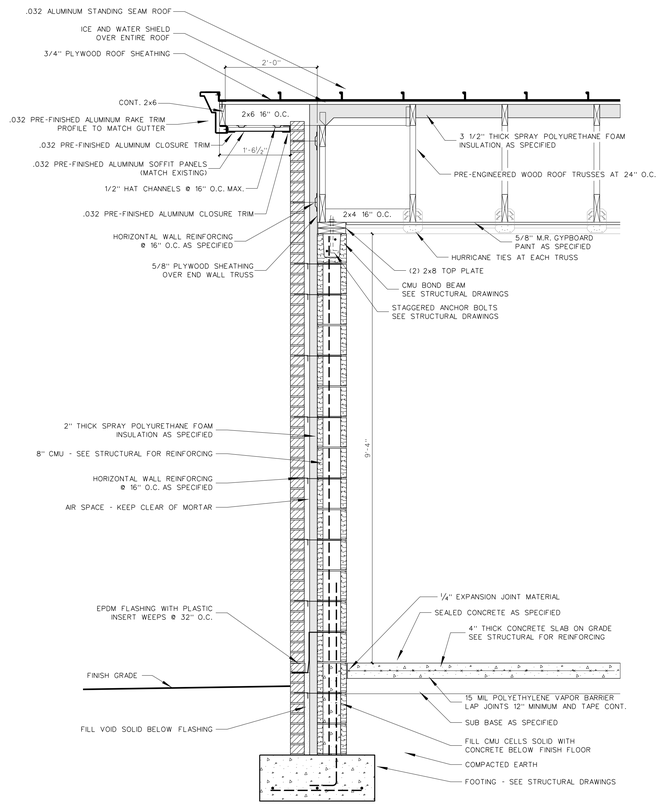


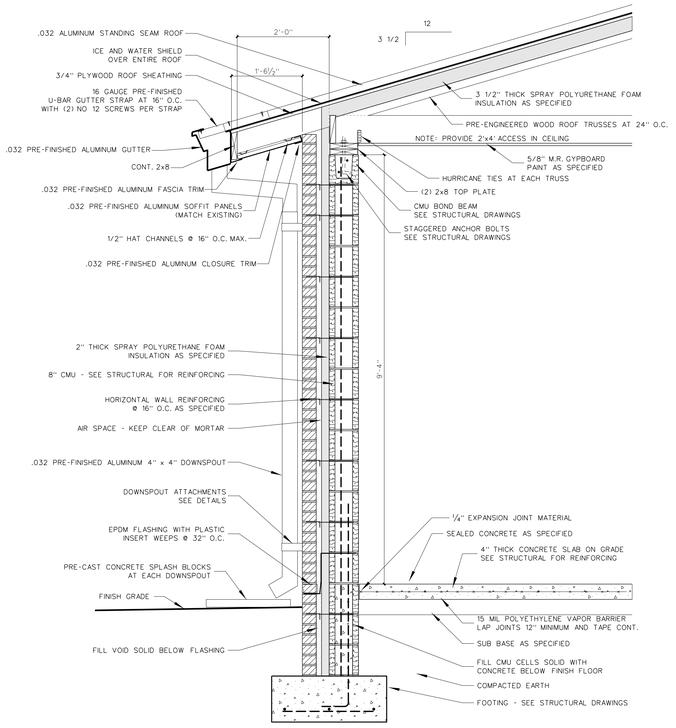
601.10 RAKE DETAIL
SCALE: 3" = 1'-0"



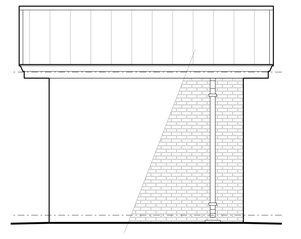
601.9 GUTTER DETAIL
SCALE: 3" = 1'-0"



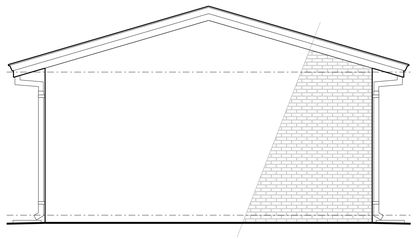
601.8 RAKE WALL SECTION
SCALE: 3/4" = 1'-0"



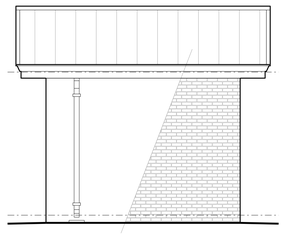
601.7 TYPICAL WALL SECTION
SCALE: 3/4" = 1'-0"



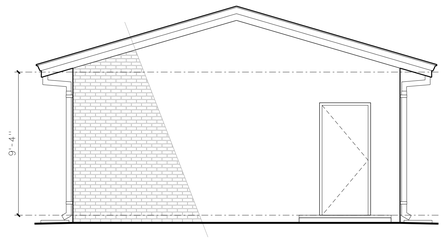
601.6 EXTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



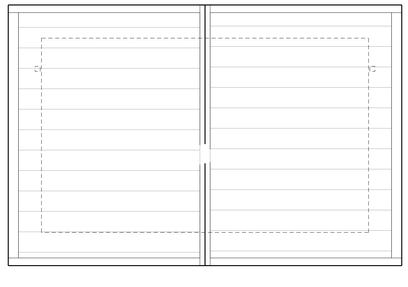
601.5 EXTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



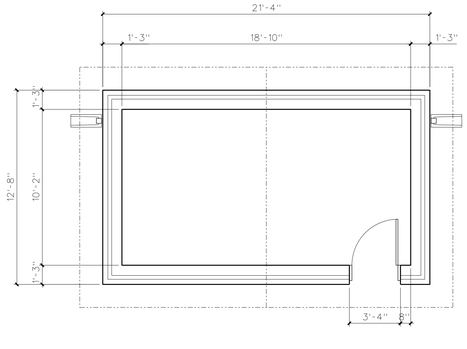
601.4 EXTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



601.3 EXTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



601.2 PUMP HOUSE ROOF PLAN
SCALE: 1/4" = 1'-0"



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

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No.	Date	Revision

HITE ASSOCIATES, P.C. ARCHITECTURAL CORPORATION CERTIFICATE NUMBER C-418 REGISTERED GREENVILLE, N.C.

JAMES GRAY HITE REGISTERED ARCHITECT 3754 GREENVILLE, N.C.

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Project No. 22207
Date: December 1, 2022
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FOUNDATION PLAN – BASE BID

1/4" = 1'-0

1.) FOOTING DESIGN BASED ON SOIL BRG. CAPACITY OF 1000 PSF. (BASED ON REPORT BY TERRACON DATED 12/27/2022 – PROJ. NO. 72225128) IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER OF RECORD IF UNSTABLE, ORGANIC, WEAK OR OTHERWISE UNACCEPTABLE SOIL CONDITIONS ARE ENCOUNTERED DURING EXCAVATIONS OR SUBSEQUENT GEOTECHNICAL INVESTIGATIONS.

2.) ELEV. NOTED (–) ARE BELOW REFERENCE FINISHED FLOOR TO TOP OF FOOTING.

3.) SLAB ON GRADE IS 4" NORMAL WEIGHT CONCRETE WITH REINFORCED WITH 6x6 W1.4 x W1.4 WWM ON A 4" NO. 57/67 WASHED STONE AND 15 MIL POLY VAPOR BARRIER, TYP. U.O.N..

4.) ALL CONCRETE SHALL BE A MINIMUM STRENGTH OF 4000 PSI MEETING ACI 301 AND ACI 318. ALL CONCRETE SHALL BE MIXED, HANDLED, SAMPLED, TESTED, AND PLACED IN ACCORDANCE WITH ACI STANDARDS. ALL SAMPLES SUBJECT TO PUMPING SHALL BE TAKEN AT THE EXIT END OF THE PUMP AT THE ELEVATION OF PLACEMENT. (REFERENCE ACI MANUAL OF CONCRETE PRACTICE).

5.) ALL REINFORCING BARS SHALL BE GRADE 60 CONFORMING TO ASTM 615. LAP BARS WHERE REQUIRED USING CLASS B TENSION LAP SPLICES, OR 40 BAR DIAMETERS. DEVELOPMENT LENGTHS SHALL BE CRSI MINIMUM UON.

6.) IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REPORT METAL BUILDING COLUMN REACTIONS, BASE PLATE SIZES, AND ANCHOR BOLT PATTERNS TO THE ENGINEER OF RECORD PRIOR TO THE PLACEMENT OF ANY CONCRETE.

7.) CJ – INDICATES SLAB CONTROL JOINT. SEE S1101 FOR DETAILS.

8.) REFERENCE ARCHITECTURAL AND PLUMBING DRAWINGS FOR COORDINATION OF SLOPED FLOORS AT FLOOR DRAINS, AND DEPRESSED FLOOR SLAB LOCATIONS.

9.) LOCATE ALL WALLS AND MASONRY OPENINGS PER ARCHITECTURAL DRAWINGS.

10.) ARCHITECTURAL BACKGROUND IS SHOWN FOR REFERENCE ONLY. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF WALLS.

11.) THE CONTRACTOR SHALL COORDINATE AND VERIFY ALL DIMENSIONS & ELEVATIONS PRIOR TO STARTING CONSTRUCTION AND ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD.

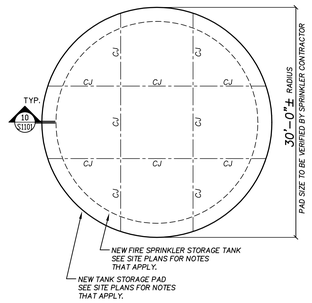
12.) FLOOR SLAB IN GYM AREA (ONLY) SHALL BE DEPRESSED 2 17/32" TO RECIEVE THE CUSHIONED PLAY FINISH FLOOR. VERIFY WITH ARCHITECTURAL DRAWINGS ALL DETAILS OF DEPRESSION AT DOORWAY THRESHOLDS. CONTRACTOR SHALL VERIFY/COORDINATE REQUIRED SLAB DEPRESSION FOR PLAY FLOOR WITH ARCH. ROOM FINISH SCHEDULE, AS REQUIRED.

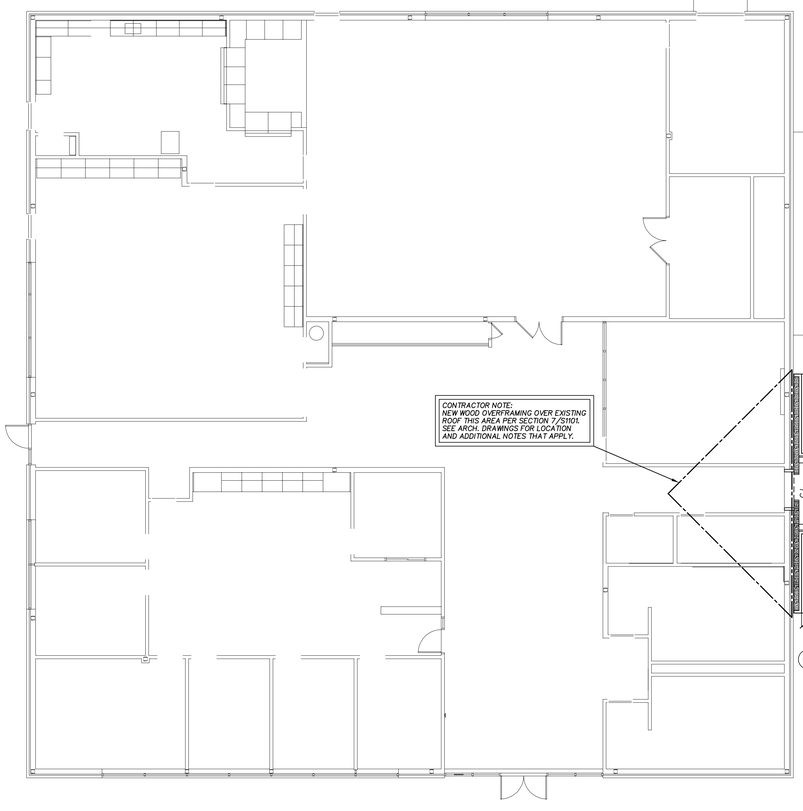
13.) SUBMIT COMPLETE METAIL BUILDING SHOP DRAWINGS AND DESIGN CALCULATIONS BEARING THE SEAL AND SIGNATURE OF A PROFESSIONAL ENGINEER DULY REGISTERED IN THE STATE OF NORTH CAROLINA. SHOP DRAWING PACKAGE SHALL INCLUDE A CONSOLIDATED LISTING OF ALL WORST-CASE BUILDING REACTION FORCES AT EACH COLUMN BASE. THE ENGINEER OF RECORD WILL REVIEW THE FOUNDATION DESIGN AND PROVIDE ANY REVISIONS REQUIRED TO SUPPORT THE REACTIONS PROVIDED. ANY FOUNDATION REVISIONS REQUIRED SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.

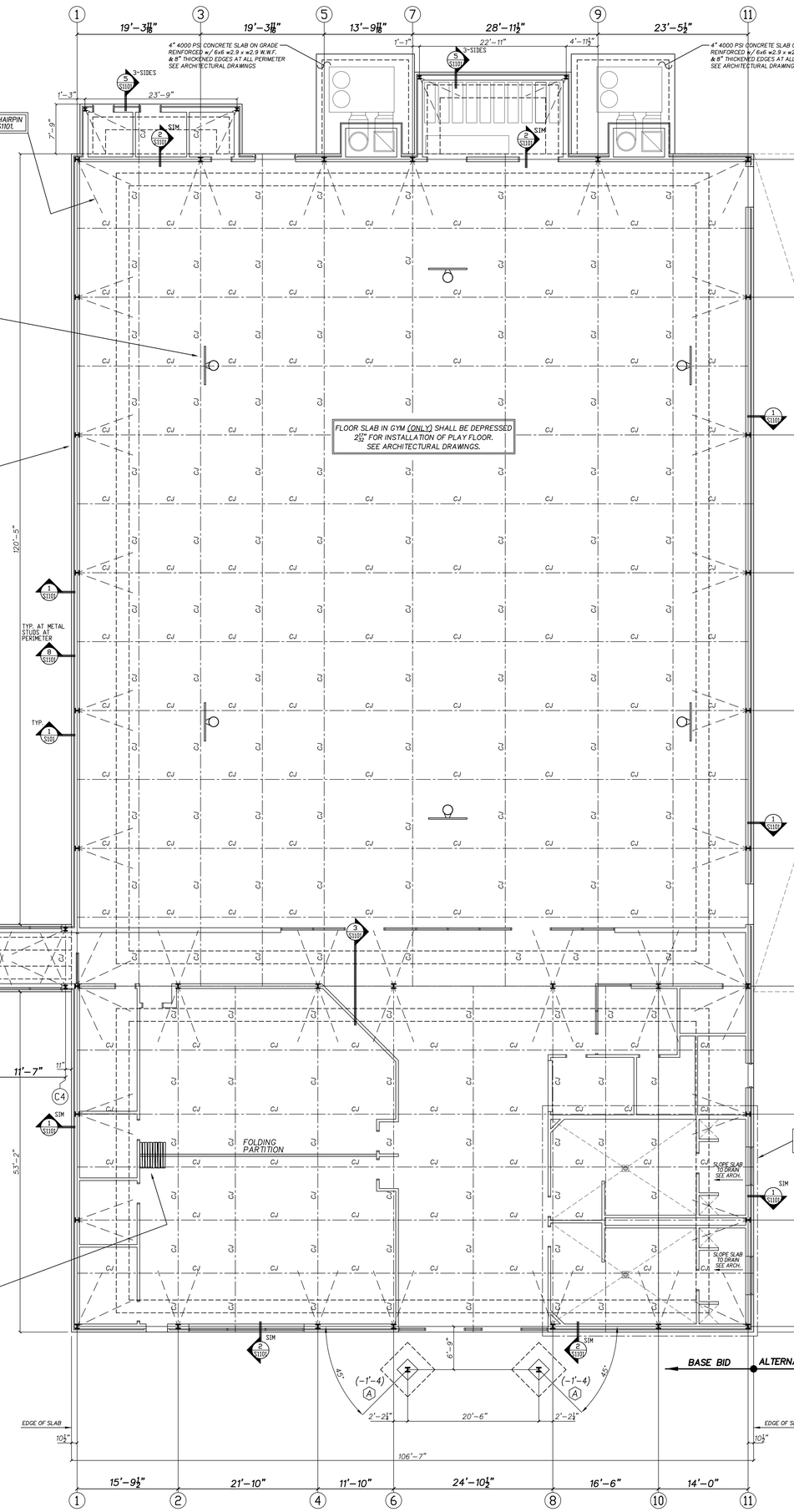
14.) LOCATE ALL WALLS AND MASONRY OPENINGS PER ARCHITECTURAL DRAWINGS. WHERE REQUIRED, SEE S1101 FOR ALL NEW CMU LINTELS.

15.) MBMA FRAME DESIGNER NOTE: COORDINATE AND VERIFY ALL DECK EDGE LOCATIONS AND OVERHANG DIMENSIONS WITH ARCHITECTURAL DRAWINGS.

16.) MBMA FRAME DESIGNER NOTE: COORDINATE ALL ENTRY FRAMING WITH ARCHITECTURAL DRAWINGS AND SECTIONS. ENTRY FRAMING IS CONSIDERED PART OF MBMA SUPPLIER'S CONTRACT.

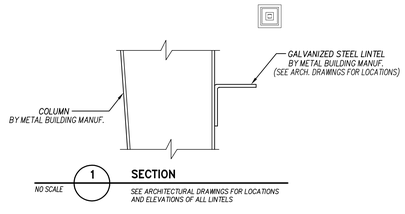






MBMA FRAME DESIGNER NOTE (BASKETBALL GOALS):
- AT SIX (6) GOAL LOCATIONS, METAL BUILDING SHALL INCLUDE ADDITIONAL FRAMING CAPABLE OF ONE (1) KIP ADDITIONAL LIVE LOAD (VERTICAL) AND TWO (2) KIPS LIVE LOAD (HORIZONTAL).
- THESE TOTAL POINT LOADS MAY BE DISTRIBUTED EQUALLY TO FRAME ATTACHMENT POINTS.
- SEE ARCHITECTURAL DRAWINGS FOR GOAL LOCATIONS AND ADDITIONAL NOTES/DETAILS THAT APPLY. (TYPICAL SIX (6) LOCATIONS.)

MBMA MANUFACTURER NOTE: COLUMN SHAFT SHALL CLEAR BLEACHERS AT GYM PLAN. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL NOTES THAT APPLY & OTHER LOCATIONS.



MBMA FRAME DESIGNER NOTE (FOLDING PARTITIONS):
- AT ONE (1) PARTITION LOCATION, METAL BUILDING SHALL INCLUDE ADDITIONAL FRAMING CAPABLE OF 300 POUNDS PER FOOT, VERTICAL AND 70 POUNDS PER FOOT, LATERAL.
- THESE TOTAL LOADS MAY BE DISTRIBUTED EQUALLY TO FRAME ATTACHMENT POINTS.
- SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS AND ADDITIONAL NOTES/DETAILS THAT APPLY. (TYPICAL ONE (1) LOCATION.)

MBMA FRAME DESIGNER NOTE:
- COORDINATE AND VERIFY ALL DECK EDGE LOCATIONS AND OVERHANG DIMENSIONS WITH ARCHITECTURAL DRAWINGS.

MBMA FRAME DESIGNER NOTE:
- COORDINATE ALL ENTRY FRAMING WITH ARCHITECTURAL DRAWINGS AND SECTIONS. ENTRY FRAMING IS CONSIDERED PART OF MBMA SUPPLIER'S CONTRACT.

COLUMN SPREAD FOOTING SCHEDULE 1000 PSF

MARK	SIZE	REINFORCING & NOTES
A	6'-0 x 6'-0 x 1.3"	6 ~ #5 EA. WA. (TOP & BOTTOM)

No.	Date:	Revision

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NC LIC C-1050
QED
QUEEN ENGINEERING & DESIGN
620 ARLINGTON BLVD, SUITE #415
GREENVILLE, NORTH CAROLINA 27858
PHONE (919) 488-3488
FAX (919) 488-3489

NORTH CAROLINA PROFESSIONAL SEAL 16991 ENGINEER BRUCE L. QUEEN
21 FEB 2023

COMMUNITY CENTER AND GYMNASIUM FOR
Alice F. Keene District Park
4561 County Home Road, Greenville, NC 27858

Project No. 22207
Date: 21 FEB 2023
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FOUNDATION PLAN – ALTERNATE #1

1/4" = 1'-0

1.) FOOTING DESIGN BASED ON SOIL BRG. CAPACITY OF 1000 PSF. (BASED ON REPORT BY TERRACON DATED 12/27/2022 – PROJ. NO. 72225128) IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER OF RECORD IF UNSTABLE, ORGANIC, WEAK OR OTHERWISE UNACCEPTABLE SOIL CONDITIONS ARE ENCOUNTERED DURING EXCAVATIONS OR SUBSEQUENT GEOTECHNICAL INVESTIGATIONS.

2.) ELEV. NOTED (–) ARE BELOW REFERENCE FINISHED FLOOR TO TOP OF FOOTING.

3.) SLAB ON GRADE IS 4" NORMAL WEIGHT CONCRETE WITH REINFORCED WITH 6x6 W1.4 x W1.4 WWM ON A 4" NO. 57/67 WASHED STONE AND 15 MIL POLY VAPOR BARRIER, TYP. U.O.N..

4.) ALL CONCRETE SHALL BE A MINIMUM STRENGTH OF 4000 PSI MEETING ACI 301 AND ACI 318. ALL CONCRETE SHALL BE MIXED, HANDLED, SAMPLED, TESTED, AND PLACED IN ACCORDANCE WITH ACI STANDARDS. ALL SAMPLES SUBJECT TO PUMPING SHALL BE TAKEN AT THE EXIT END OF THE PUMP AT THE ELEVATION OF PLACEMENT. (REFERENCE ACI MANUAL OF CONCRETE PRACTICE).

5.) ALL REINFORCING BARS SHALL BE GRADE 60 CONFORMING TO ASTM 615. LAP BARS WHERE REQUIRED USING CLASS B TENSION LAP SPLICES, OR 40 BAR DIAMETERS. DEVELOPMENT LENGTHS SHALL BE CRSI MINIMUM UON.

6.) IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REPORT METAL BUILDING COLUMN REACTIONS, BASE PLATE SIZES, AND ANCHOR BOLT PATTERNS TO THE ENGINEER OF RECORD PRIOR TO THE PLACEMENT OF ANY CONCRETE.

7.) CJ – INDICATES SLAB CONTROL JOINT. SEE S1101 FOR DETAILS.

8.) REFERENCE ARCHITECTURAL AND PLUMBING DRAWINGS FOR COORDINATION OF SLOPED FLOORS AT FLOOR DRAINS, AND DEPRESSED FLOOR SLAB LOCATIONS.

9.) LOCATE ALL WALLS AND MASONRY OPENINGS PER ARCHITECTURAL DRAWINGS.

10.) ARCHITECTURAL BACKGROUND IS SHOWN FOR REFERENCE ONLY. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF WALLS.

11.) THE CONTRACTOR SHALL COORDINATE AND VERIFY ALL DIMENSIONS & ELEVATIONS PRIOR TO STARTING CONSTRUCTION AND ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD.

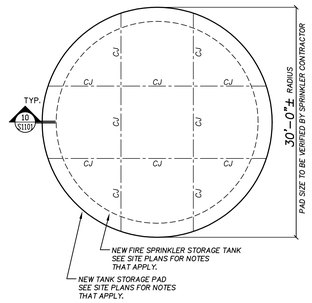
12.) FLOOR SLAB IN GYM AREA (ONLY) SHALL BE DEPRESSED 2 17/32" TO RECIEVE THE CUSHIONED PLAY FINISH FLOOR. VERIFY WITH ARCHITECTURAL DRAWINGS ALL DETAILS OF DEPRESSION AT DOORWAY THRESHOLDS. CONTRACTOR SHALL VERIFY/COORDINATE REQUIRED SLAB DEPRESSION FOR PLAY FLOOR WITH ARCH. ROOM FINISH SCHEDULE, AS REQUIRED.

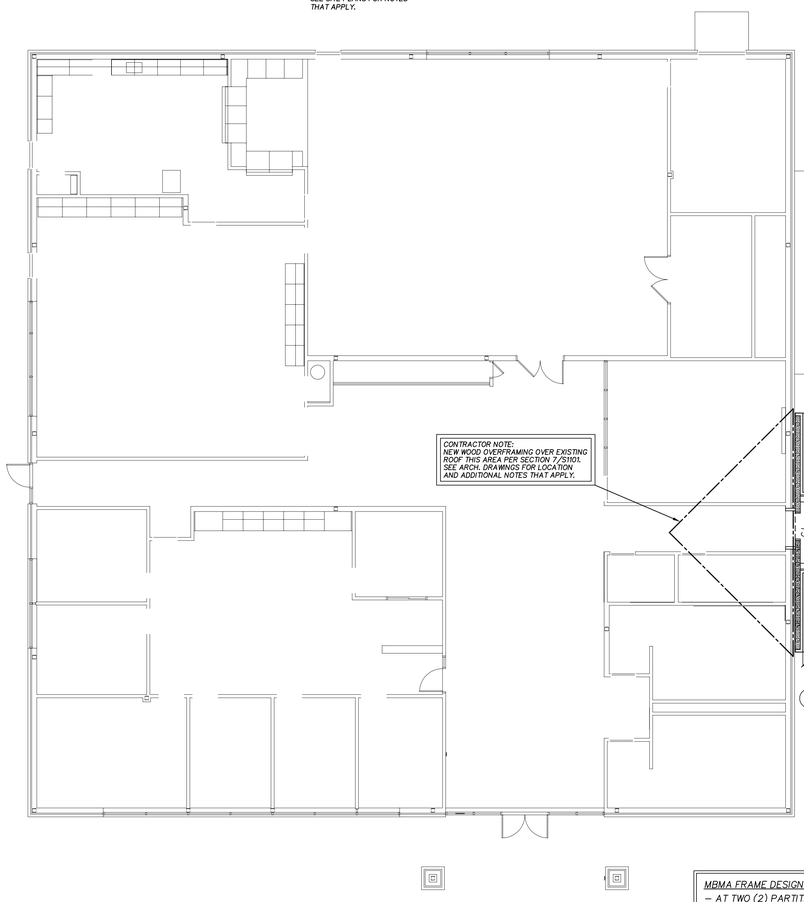
13.) SUBMIT COMPLETE METAIL BUILDING SHOP DRAWINGS AND DESIGN CALCULATIONS BEARING THE SEAL AND SIGNATURE OF A PROFESSIONAL ENGINEER DULY REGISTERED IN THE STATE OF NORTH CAROLINA. SHOP DRAWING PACKAGE SHALL INCLUDE A CONSOLIDATED LISTING OF ALL WORST-CASE BUILDING REACTION FORCES AT EACH COLUMN BASE. THE ENGINEER OF RECORD WILL REVIEW THE FOUNDATION DESIGN AND PROVIDE ANY REVISIONS REQUIRED TO SUPPORT THE REACTIONS PROVIDED. ANY FOUNDATION REVISIONS REQUIRED SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.

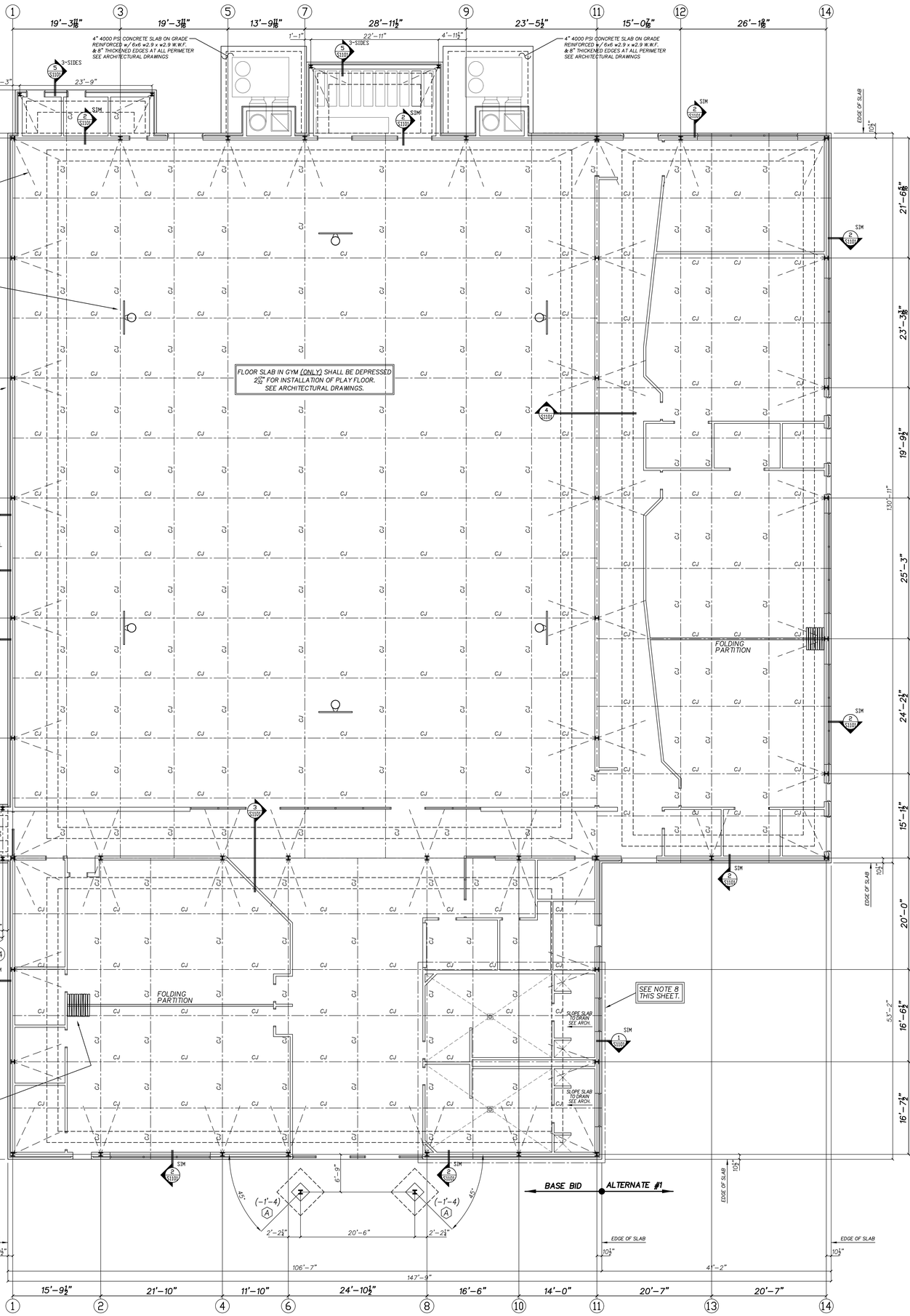
14.) LOCATE ALL WALLS AND MASONRY OPENINGS PER ARCHITECTURAL DRAWINGS. WHERE REQUIRED, SEE S1101 FOR ALL NEW CMU LINTELS.

15.) MBMA FRAME DESIGNER NOTE: COORDINATE AND VERIFY ALL DECK EDGE LOCATIONS AND OVERHANG DIMENSIONS WITH ARCHITECTURAL DRAWINGS.

16.) MBMA FRAME DESIGNER NOTE: COORDINATE ALL ENTRY FRAMING WITH ARCHITECTURAL DRAWINGS AND SECTIONS. ENTRY FRAMING IS CONSIDERED PART OF MBMA SUPPLIER'S CONTRACT.







COLUMN SPREAD FOOTING SCHEDULE		1000 PSF
MARK	SIZE	REINFORCING & NOTES
A	6'-0 x 6'-0 x 1'3"	6 ~ #5 EA. WA. (TOP & BOTTOM)

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NORTH CAROLINA PROFESSIONAL SEAL 18991 ENGINEER BRUCE L QUEEN
21 FEB 2023

No.	Date	Revision

COMMUNITY CENTER AND GYMNASIUM FOR
Alice F. Keene District Park
4561 County Home Road, Greenville, NC 27858

Project No. 22207
Date: 21 FEB 2023
Drawing no. S 102

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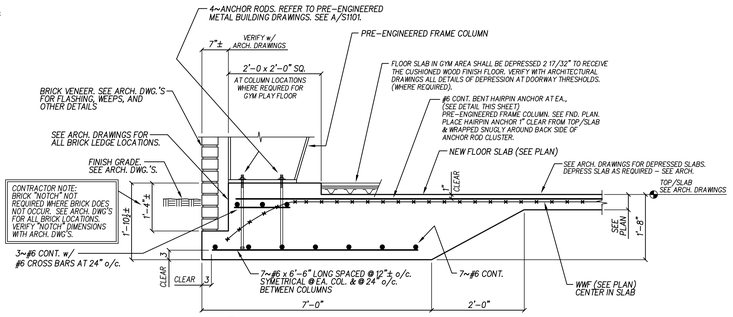
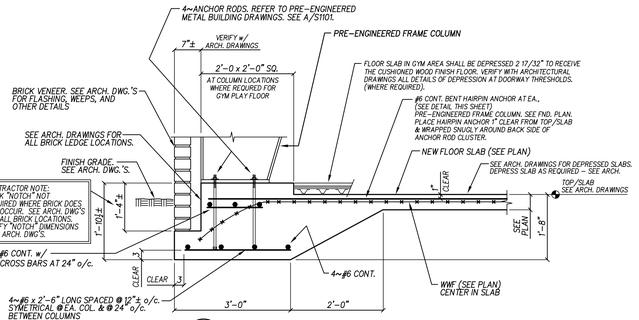


1 FOUNDATION DETAIL
NO SCALE



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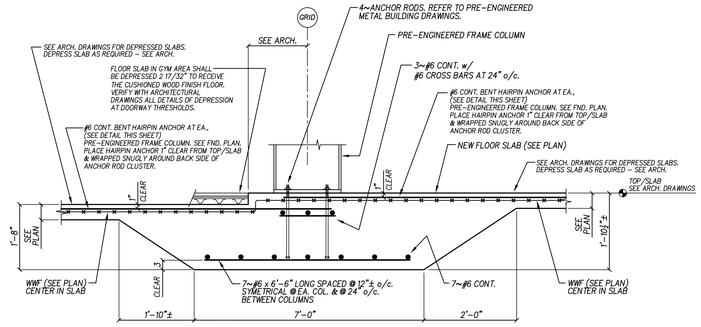

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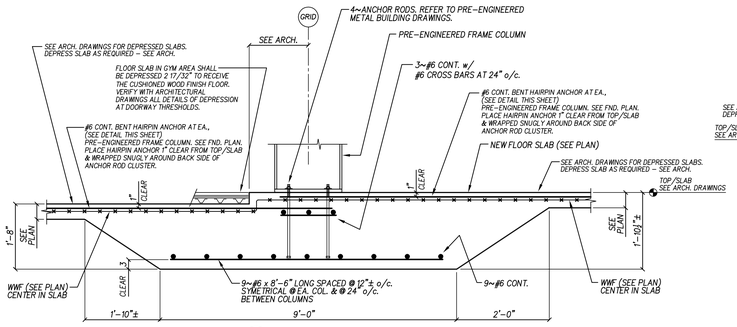

4 FOUNDATION DETAIL
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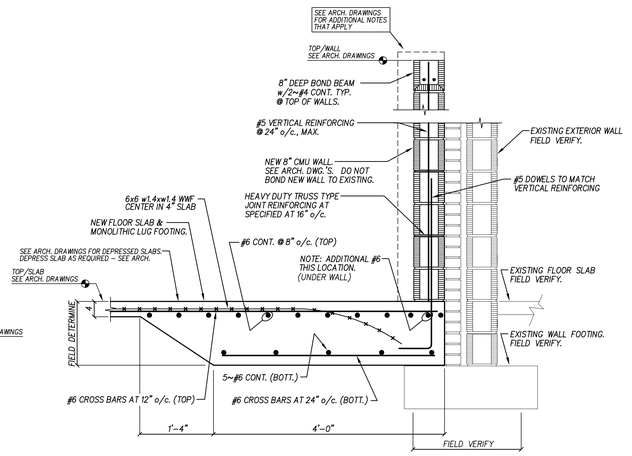
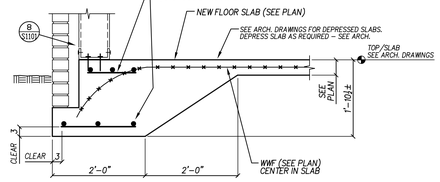
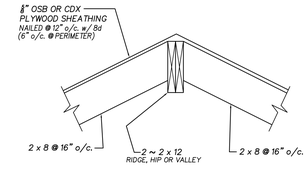


6 WALL SECTION AT CONNECTOR AT EXISTING WALL
NO SCALE

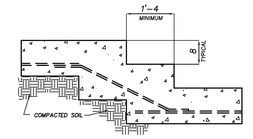
t.) DOWELS OCCUR AT 24" o/c. AT ALL CORNERS AND AT OPENINGS. GROUT ALL FILLED CELLS SOLID.



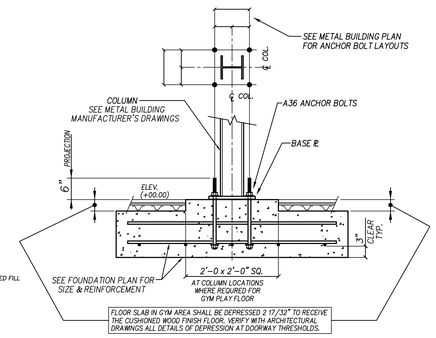
5 FOUNDATION DETAIL
NO SCALE
– SEE OTHER SECTIONS FOR ADDITIONAL NOTES THAT APPLY.



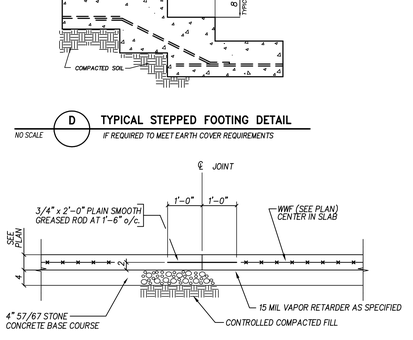
7 SECTION AT OVERFRAMING AT EXISTING
NO SCALE
– SEE ARCH. DRAWINGS FOR NEW OVERFRAMING LOCATIONS



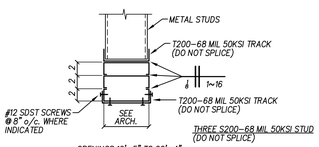
D TYPICAL STEPPED FOOTING DETAIL
NO SCALE
IF REQUIRED TO MEET EARTH COVER REQUIREMENTS

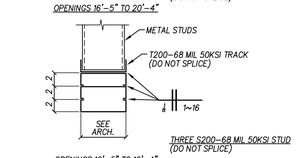


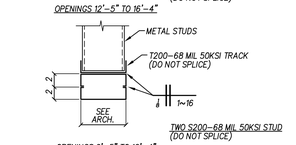
E TYPICAL COLUMN FOOTING DETAIL
NO SCALE

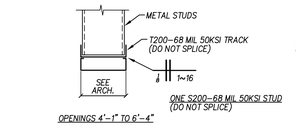


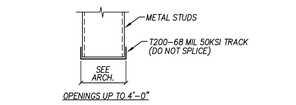
C TYPICAL SLAB CONSTRUCTION JOINT DETAIL AT SLAB ON GRADE
NO SCALE



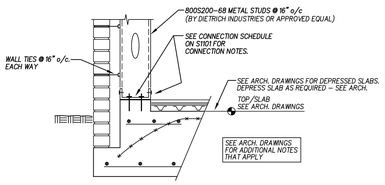




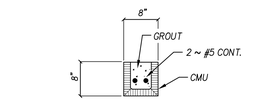




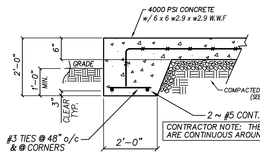
AA TYPICAL WINDOW & DOOR HEAD DETAILS
NO SCALE



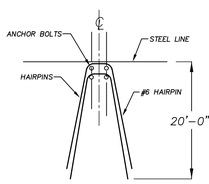
8 METAL STUD INFILL AT PERIMETER
NO SCALE
– SEE OTHER SECTIONS FOR ADDITIONAL NOTES THAT APPLY.



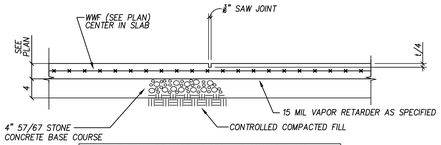
9 8" DEEP CMU LINTEL
NO SCALE
– BEAR ALL LINEL COMPONENTS 8" EA. SIDE
– SPAN = 4'-0", MAX.



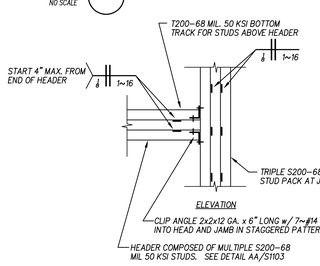
10 EXTERIOR FIRE TANK PAD DETAIL
NO SCALE



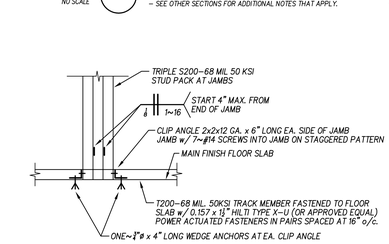
TYPICAL HAIRPINS @ PERIMETER FOOTING
NO SCALE
NOTE: INSTALL ONE HAIRPIN PER SET OF ANCHOR BOLTS. ELEVATION OF HAIRPINS = CENTERLINE OF SLAB.



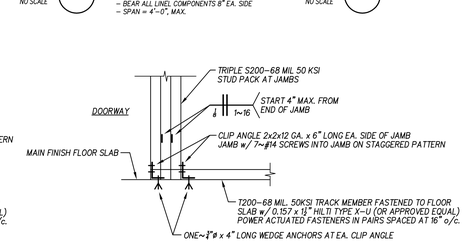
B TYPICAL SLAB CRACK CONTROL JOINT DETAIL AT SLAB ON GRADE
NO SCALE



CC TYPICAL WINDOW OR DOOR HEAD TO METAL STUD JAMB CONNECTION DETAIL
NO SCALE



BB WINDOW JAMB TO FLOOR SLAB DETAIL
NO SCALE



DD DOOR JAMB CONNECTION TO FLOOR DETAIL
NO SCALE

LOOSE LINTEL SCHEDULE (TYPICAL, U.O.N.)			
MARK	SIZE	M.O.	BEARING
L1	L 3½ x 3½ x ¼	1'–8 to 5'–0	8" @ EA. END
L2	L 5 x 3½ x ⅜ LLV	5'–0 to 7'–0	8" @ EA. END
L3	L 6 x 3½ x ⅜ LLV	7'–0 to 8'–0	8" @ EA. END
L4	L 6 x 3½ x ⅜ LLV	8'–0 to 10'–0	12" @ EA. END
L5	L 6 x 3½ x ½ LLV	10'–0 to 12'–0	12" @ EA. END

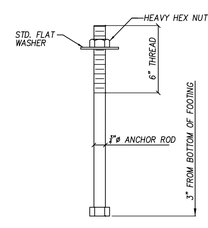
EE TYPICAL ADJUSTABLE MASONRY WALL TIE DETAIL AT BRICK VENEER w/ METAL STUD BACKUP
NO SCALE

CONNECTIONS AT STUDS

NOTE: ALL METAL STUDS AND METAL SYSTEM TO BE MANUFACTURED BY DIETRICH INDUSTRIES OR EQUAL	
METAL STUD CONNECTION SCHEDULE #10 TEK SCREWS (U.N.O.)	
CONNECTION TYPE	COMMENTS
BOTTOM TRACK TO FLOOR	2 ~ POWDER DRIVEN FASTENERS @ 24" o/c
STUD TO BOTTOM TRACK	ONE SCREW IN EA. FLANGE, U.O.N.
STUD TO TOP TRACK	ONE SCREW IN EA. FLANGE, U.O.N.
PLYWOOD TO STUDS	SCREW @ 6" o/c ALONG EA. STUD
TOP PL TO TRACK	#10 TEK AT 12" o/c.
FC TO STUD	4~#10 TEK
FC TO SLAB	¼"ø EXP. ANCH.

METAL STUD GENERAL NOTES

1. ALL METAL STUD MATERIAL SHALL BE MANUFACTURED BY DIETRICH INDUSTRIES OR APPROVED EQUAL.
2. CONTRACTOR SHALL INSTALL ALL COMPONENTS IN STRICT COMPLIANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND DETAILS PRIOR TO CONSTRUCTION.
4. ALL METAL STUD MEMBERS SHALL HAVE Fy = 50 KSI, MINIMUM.



A MBMA COLUMN ANCHOR ROD DETAILS
NO SCALE
ASTM A36 MATERIAL
NOTE: DIAMETER VARIES
(SEE METAL BUILDING MANUFACTURER'S DRAWINGS)

No.	Date:	Revision

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FAX (252) 689-3488

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 18991 BRUCE L. QUEEN
21 FEB 2023

COMMUNITY CENTER AND GYMNASIUM FOR
Alice F. Keene District Park
4561 County Home Road, Greenville, NC 27858

Project No. 22207
Date: 21 FEB 2023
Drawing no. S 1101

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GENERAL NOTES

FOUNDATIONS

1. SOIL DESIGN BEARING VALUE – 1000 PSF.
2. SITE PREPARATION AND PLACEMENT OF ENGINEERED COMPACTED FILL AND THE INTERMEDIATE SOIL IMPROVEMENT WORKS SHALL BE MONITORED BY THE GEOTECHNICAL LABORATORY. ALL NECESSARY PREPARATORY STRIPPING, CUTTING, PROOF ROLLING, AND FILLING AND IMPROVEMENT OPERATIONS SHALL BE SO MONITORED.
3. ALL FILL INSIDE THE BUILDING AND TO 10' OUTSIDE THE BUILDING, INCLUDING RAMPS, STOOPS, AND STEPS SHALL BE CLEAN SELECT MATERIAL FREE OF DELETERIOUS MATERIALS SUCH AS WOOD, ROOTS, TRASH, OR OTHER EXTRANEOUS MATERIALS. PLACE FILL TO BE COMPACTED IN 8" LIFTS, MEASURED LOOSE, AND COMPACT EACH LIFT TO 95% MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT AS MEASURED BY ASTM D698. COMPACT THE TOP THREE 8" LIFTS TO 100% MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT AS MEASURED BY ASTM D698.
4. ALL FOOTING EXCAVATIONS SHALL BE APPROVED BY THE GEOTECHNICAL LABORATORY PRIOR TO PLACING FOOTING CONCRETE.
5. FOOTING ELEVATIONS SHALL NOT BE RAISED OR LOWERED UNLESS SPECIFICALLY APPROVED BY THE ARCHITECT.
6. FOOTINGS MAY CARRIED TO LOWER ELEVATION WHERE DIRECTED BY THE ARCHITECT.
7. FOUNDATIONS SHALL BE PLACED ONLY ON APPROVED NATURAL UNDISTURBED SOIL STRATA OR ON PROPERLY PLACED ENGINEERED CONTROLLED COMPACTED IMPROVED FILL UNDER THE SUPERVISION OF THE GEOTECHNICAL LABORATORY.
8. ALL STRIPPING, PROOF ROLLING, BACKFILLING, AND COMPACTION OF SOIL IN THE BUILDING PAD AREA AND TO 10'-0" OUTSIDE THE BUILDING INCLUDING RAMPS, STOOPS, AND STEPS SHALL BE SUBJECT TO CONTINUOUS SPECIAL INSPECTION AS SCHEDULED BELOW.

CONCRETE

1. CONCRETE SHALL DEVELOP THE FOLLOWING MINIMUM COMPRESSIVE STRENGTHS AT 28 DAYS:

A)	FOOTINGS AND PEDESTALS	–	4000 PSI
B)	INTERIOR SLABS ON GRADE	–	4000 PSI
C)	OTHER INTERIOR CONCRETE	–	4000 PSI
D)	EXPOSED EXTERIOR CONCRETE	–	4000 PSI
E)	MASONRY CAVITY WALL FILL	–	3000 KSI

2. CONCRETE FOR FOOTINGS AND SLABS ON GRADE SHALL BE REGULAR STONE CONCRETE.
3. CONCRETE TO BE PERMANENTLY EXPOSED TO WEATHER SHALL HAVE 5% (+/– 1%) AIR ENTRAINMENT.
4. CONCRETE NOT PERMANENTLY EXPOSED TO THE WEATHER SHALL NOT HAVE AIR ADDED BY ENTRAINMENT. THIS REQUIREMENT SHALL BE VERIFIED AND REPORTED BY LABORATORY TESTS.
5. ALL CONCRETE WORK SHALL CONFORM TO "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE," ACI 318.
6. OBSERVE ALL AND STRICTLY FOLLOW ALL ACI 305 AND 306 REQUIREMENTS RESPECTIVELY FOR PROTECTION OF CONCRETE IN HOT AND COLD WEATHER.
7. ALL CONCRETE SLAB WORK SHALL BE PROPERLY CURED IN CONFORMANCE WITH ACI 308. EITHER WATER CURING, WATERPROOF PAPER CURING, PLASTIC SHEET, OR SPRAY–ON SEALING MATERIALS METHOD MAY BE USED PROVIDED THAT THE METHOD CHOSEN HAS NO DETRIMENTAL EFFECT ON THE FINAL FINISH SPECIFIED FOR THE RESPECTIVE AREAS. THE PROPOSED CURING METHOD TO BE USED SHALL BE APPROVED BY THE ARCHITECT.
8. BUILDING SLABS ON GRADE SHALL BE 4" MINIMUM THICKNESS.
9. PROVIDE CONSTRUCTION OR CONTROL JOINTS IN SLABS ON GRADE IN LOCATIONS AS SHOWN ON FOUNDATION PLAN OR AT OTHER LOCATIONS APPROVED OR REQUIRED BY THE ARCHITECT. BUT SPACING OF JOINTS SHALL NOT EXCEED 14' IN ANY DIRECTION.
10. THE TYPE OF JOINT USED WHETHER CONTROL JOINT OR CONSTRUCTION JOINT IS THE OPTION OF THE CONTRACTOR UNLESS OTHERWISE NOTED ON THE DRAWINGS.
11. SAW JOINTS AT CONTROL JOINTS IN THE CONCRETE SLABS SHALL BE MADE AS SOON AS THE CONCRETE HAS SUFFICIENT STRENGTH TO PREVENT SPALLING OF THE JOINT DUE TO THE ACTION OF THE SAW, BUT IN NO CASE GREATER THAN 4 HOURS AFTER INITIAL PLACEMENT OF THE CONCRETE. THE SAW JOINTS SCHEDULED TO BE FILLED WITH APPROVED JOINT FILLER SHALL BE FILLED ONLY AFTER THE SLABS HAVE FULLY CURED AND BEEN THOROUGHLY CLEANED OUT AND FREE OF MOISTURE AND DEBRIS.
12. SLAB JOINT FILLER SHALL BE OF THE TYPE COMPATIBLE WITH THE FINAL FLOOR COVERING USED. SLAB JOINTS UNDER PERMANENT PARTITIONS OR CASE WORK NEED NOT BE FILLED.
13. PLACE 1/4" PRE–FORMED, IMPREGNATED EXPANSION JOINT FILLER FULL DEPTH OF SLAB ON GRADE AT ABUTTING WALL SURFACES UNLESS OTHERWISE NOTED.
14. CHAMFER EXPOSED EDGES AND CORNERS OF CONCRETE 3/4" UNLESS OTHERWISE NOTED.
15. SEE ARCHITECTURAL DRAWINGS FOR REQUIRED FLOOR FINAL FINISHES AND PROVIDE NECESSARY SLOPES, DEPRESSIONS, AND SLAB FINISH AS REQUIRED TO ACCEPT THE SPECIFIED FINAL FINISHES.
16. PROVIDE A 2 17/32" SLAB DEPRESSION IN THE AREAS REQUIRING THE PLAY FLOOR. REFER TO THE ARCHITECTURAL DRAWINGS FOR THE EXACT LOCATIONS OF THE PLAY FLOOR. CONTRACTOR SHALL VERIFY/COORDINATE REQUIRED SLAB DEPRESSION FOR PLAY FLOOR WITH ARCH. ROOM FINISH SCHEDULE.

REINFORCING STEEL

1. BARS SHALL BE ROLLED FROM NEW BILLET–STEEL CONFORMING TO "SPECIFICATION FOR DEFORMED BILLET–STEEL BARS FOR CONCRETE REINFORCEMENT," ASTM A615, GRADE 60.
2. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185. PROVIDE WWF IN FLAT SHEETS. ROLLED WWF WILL NOT BE ACCEPTED ON THIS PROJECT.
3. DETAIL AND FABRICATE REINFORCING STEEL IN ACCORDANCE WITH "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES," ACI 315.
4. REINFORCING STEEL SHALL BE IN PLACE AND REVIEWED BY THE ARCHITECT PRIOR TO PLACING CONCRETE.
5. FABRICATE REBARS IN CONTINUOUS FOOTINGS, WALLS, BOND BEAMS, AND MONOLITHIC TURNED DOWN SLABS TO LONGEST PRACTICAL LENGTHS.
6. LAP HORIZONTAL REBAR SPLICES A MINIMUM OF 48 BAR DIAMETERS BUT A MINIMUM OF 24" UNLESS OTHERWISE NOTED. PLAN REBAR SPLICES TO OCCUR AT MIDSPAN BETWEEN COLUMNS AND AT POINTS OF MINIMUM STRESS UNLESS OTHERWISE
7. LAP VERTICAL REBAR SPLICES INCLUDING DOWELS FROM FOOTINGS IN CMU WALLS A MINIMUM OF 48 BAR DIAMETERS.
8. BARS IN INDIVIDUAL COLUMN SPREAD FOOTINGS SHALL NOT BE SPLICED.
9. TERMINATE CONTINUOUS BARS IN WALL FOOTINGS, WALLS, BOND BEAMS AND TURNED DOWN SLABS, WITH A STANDARD 90 DEGREE HOOK AT DISCONTINUOUS ENDS, CORNERS, AND INTERSECTIONS.
10. PROVIDE MATCHING CORNER BARS FOR ALL HORIZONTAL BARS IN CONCRETE WALLS. PROVIDE FOR 48 BAR DIAMETER LAP BOTH WAYS AT CORNERS.
11. ALL DOWELS SHALL TERMINATE IN THE FOOTING OR ELEVATED SLAB WITH A STANDARD ACI 90 OR 180 DEGREE HOOK AS APPROPRIATE UNLESS SPECIFICALLY SHOWN OTHERWISE. DOWELS SHALL LAP THEIR MATCHING VERTICAL REBAR 48 BAR DIAMETERS.
12. LAP ALL WWF END SPLICES TWO FULL MESHES AND ALL SIDE LAP SPLICES ONE FULL MESH AND TIE OFF WITH STANDARD TIE WIRES.
13. PROVIDE THE FOLLOWING CLEARANCES FROM REBARS TO CONCRETE FACE UNLESS OTHERWISE NOTED ON DRAWINGS:

A)	EARTH FORMS	– 3"
B)	WALL FORMS	– 2"
C)	TOP OF SLAB	– 1/4"
D)	CMU WYTHE	– CENTER BARS IN CENTER OF WYTHE

14. SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION.

BRICK MASONRY

1. CONCRETE MASONRY UNITS SHALL BE LIGHTWEIGHT OR BLENDED LIGHTWEIGHT UNITS CONFORMING TO ASTM C90 WITH A COMPRESSIVE STRENGTH OF 1900 PSI MINIMUM TESTED IN ACCORDANCE WITH ASTM C140.
2. BRICK VENEER UNIT SHALL BE FULLY FIRED VITRIFIED CLAY UNITS AS SELECTED BY THE ARCHITECT.
3. ALL MORTAR SHALL BE TYPE "S" PER PROPORTION SPECIFICATION ASTM C270.
4. WALLS SHALL BE ACCURATELY LAID OUT AND CONSTRUCTED SO THAT NO WALL VARIES MORE THAN 1/4" FROM ITS DESIGNATED LOCATION. THIS VARIATION LIMIT SHALL APPLY TO WALL PLUMBNESS AND WALL STRAIGHTNESS.
5. ALL BED AND HEAD JOINTS SHALL BE FULLY MORTARED.
6. HORIZONTAL JOINT REINFORCING FOR ALL MULTIPLE WYTHE MASONRY WALLS SHALL BE GALVANIZED HEAVY DUTY TRUSS TYPE HORIZONTAL JOINT REINFORCEMENT BY HOHMAN AND BARNARD OR APPROVED EQUAL WITH 3/16" SIDE RODS AND #9 DIAGONAL CROSS RODS FOR THE CMU WYTHE WITH INTEGRAL DOUBLE EYE AND ADJUSTABLE 1/4" DIAMETER PINTLE BRICK TIE SPACED AT 24" o/c. HORIZONTALLY.
7. ALL MASONRY WALLS SHALL BE BONDED AT CORNERS UNLESS OTHERWISE NOTED ON THE PLANS. REFER TO ARCHITECTURAL DRAWINGS FOR CORNER AND TEE WALL INTERSECTION REQUIREMENTS AT MASONRY PARTITIONS.
8. PROVIDE VERTICAL CRACK CONTROL JOINTS IN ALL MASONRY WALLS AT INTERVALS SHOWN ON THE ARCHITECTURAL DRAWINGS. CONTROL JOINT INTERVALS SHALL NOT EXCEED 32'.
9. ALL BRICK VENEER UNITS BACKED UP BY METAL STUDS SHALL BE TIED TO STUDS AT 16" HORIZONTAL INTERVALS AND 16" VERTICAL INTERVALS WITH ADJUSTABLE WALL TIES FASTENED THROUGH THE SHEATHING INTO THE STUD FRAMING WITH MINIMUM 2 ~ #12 SDST SCREWS.
10. ADJUSTABLE WALL TIES SHALL BE A 2 ~ PIECE ASSEMBLY WITH #16 G90 GALVANIZED TRIANGULAR WIRE TIE. ANCHOR SHALL BE MINIMUM 12 GA. WITH BACK PLATE TO LIMIT THE HORIZONTAL MOVEMENT OF THE WIRE TO 1/4".
11. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ADEQUATE TEMPORARY BRACING AND GUYING OF ALL MASONRY WALLS TO PROVIDE FOR SAFETY OF THE STRUCTURE AND WORKMEN. BRACING TO REMAIN UNTIL NO LONGER REQUIRED FOR SAFE SUPPORT OF WALLS.

PRE–ENGINEERED METAL BUILDING SYSTEM

1. ALL MAIN METAL BUILDING STRUCTURAL FRAME AND SYSTEM ELEMENTS SHALL BE DESIGNED AND FURNISHED AS A PART OF THE PRE–ENGINEERED BUILDING PACKAGE.
2. ALL STRUCTURAL DESIGN, FABRICATION, AND ERECTION WORK SHALL CONFORM TO ALL PERTINENT REQUIREMENTS OF THE LATEST EDITION OF THE FOLLOWING CODES AND PRACTICES.
   A. AMERICAN INSTITUTE OF STEEL CONSTRUCTION – "SPECIFICATION FOR STRUCTURAL STEEL FOR BUILDINGS – ALLOWABLE STRESS DESIGN" AND THE "CODE OF STANDARD PRACTICE".
   B. AMERICAN IRON AND STEEL INSTITUTE – "SPECIFICATION FOR THE DESIGN OF COLD FORMED STRUCTURAL MEMBERS".
   C. METAL BUILDING MANUFACTURER'S ASSOCIATION – "LOW RIDE BUILDING SYSTEMS MANUAL".
   D. NORTH CAROLINA BUILDING CODE, LATEST RECOGNIZED EDITION.
   E. ASCE 7 – MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES – LATEST RECOGNIZED EDITION.
3. ALL LIGHT GAGE MEMBERS SHALL BE FURNISHED AS DESIGNED IN ACCORDANCE WITH "SPECIFICATION FOR THE DESIGN OF COLD FORMED STRUCTURAL MEMBERS" OF THE AMERICAN IRON AND STEEL INSTITUTE.
4. UNLESS OTHERWISE NOTED ALL STEEL PLATE AND SHEET UTILIZED IN THE FABRICATIONS OF THE MAIN FRAMES OTHER THAN LIGHT GAGE MEMBERS SHALL CONFORM TO ASTM A570, A606, & A607 WITH MINIMUM YIELD STRENGTH OF 42 AND 50 KSI AS REQUIRED BY THE DESIGN OF THE PART.
5. ALL SHEET STEEL FOR LIGHT GAGE MEMBERS SHALL CONFORM TO ASTM A570 GRADE 55 WITH MINIMUM YIELD OF 57 KSI UNLESS OTHERWISE NOTED.
6. CONNECTION BOLTS SHALL BE FURNISHED AS PART OF THE PRE–ENGINEERED BUILDING PACKAGE AS DESIGNED BY THE BUILDING SUPPLIER. THE REQUIRED TIGHTENING PROCEDURES WHETHER FULLY PRE–TENSIONED OR SNUG TIGHT FOR ALL ASTM A325 BOLTS SHALL BE NOTED ON THE PRE–ENGINEERED BUILDING DRAWINGS.
7. PLACE A HARDENED FLAT WASHER OVER ALL EXPOSED SLOTTED HOLES IN ALL CONNECTIONS.
8. REFER TO CONTRACT DRAWINGS FOR BUILDING EAVE HEIGHTS MEASURED FROM THE MAIN FINISH FLOOR TO THE TOP OF THE ROOF PURLINS.
9. HORIZONTAL BUILDING DRIFT SHALL BE LIMITED TO H/400.
10. THE PRE–ENGINEERED BUILDING COMPONENTS SHALL BE SHOP PRIMED WITH RUST INHIBITIVE RED OXIDE PRIMER.
11. THE PRE–ENGINEERED BUILDING SUPPLIER SHALL HAVE BEEN IN THE BUSINESS OF SUPPLYING METAL BUILDING COMPONENTS OF THE TYPE SPECIFIED ON THIS PROJECT FOR A MINIMUM OF FIVE YEARS IN THE GEOGRAPHICAL AREA.
12. SUPPLY ANCHOR BOLT INFORMATION FOR THE PRE–ENGINEERED METAL BUILDING TO THE CONTRACTOR FOR SUPPLY BY A STRUCTURAL STEEL FABRICATOR EMPLOYED BY THE CONTRACTOR.
13. PROVIDE ALL NECESSARY VERTICAL WALL BRACING FOR BUILDING STABILITY. VERTICAL BRACING SHALL BE PORTAL FRAME TYPE AT LOCATIONS APPROVED BY THE ARCHITECT.
14. PROVIDE ALL NECESSARY HORIZONTAL ROOF BRACING FOR BUILDING STABILITY. HORIZONTAL BRACING SHALL BE ROD "X" BRACING AT LOCATIONS NOT INTERFERING WITH ROOF OPENINGS.
15. PROVIDE ALL NECESSARY HORIZONTAL WIND BEAMS, EAVE STRUTS AND OTHER COMPRESSION STRUT BRACING FOR BUILDING STABILITY.
16. ALL HORIZONTAL WIND BEAMS AT SIDEWALLS SHALL BE HSS 8 x 8 x #8 MEMBERS, MINIMUM. REFER TO ARCHITECTURAL DRAWINGS.
17. ROOF PANELS SHALL BE 24 GAGE MINIMUM THICKNESS STANDING SEAM PANELS WITH FINISH AS SPECIFIED BY ARCHITECT.
18. SUBMIT COMPLETE SHOP DRAWINGS AND DESIGN CALCULATIONS BEARING THE SEAL AND SIGNATURE OF A PROFESSIONAL ENGINEER DULY REGISTERED IN THE STATE OF NORTH CAROLINA.
19. SHOP DRAWING PACKAGE SHALL INCLUDE A CONSOLIDATED LISTING OF ALL WORST–CASE BUILDING REACTION FORCES AT EACH COLUMN BASE. THE ENGINEER OF RECORD WILL REVIEW THE FOUNDATION DESIGN AND PROVIDE ANY REVISIONS REQUIRED TO SUPPORT THE REACTIONS PROVIDED. ANY FOUNDATION REVISIONS REQUIRED SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.

LIGHT GAGE METAL FRAMING

1. LIGHT GAGE METAL STUD LOCATIONS SHALL BE AS NOTED ON THE ARCHITECTURAL DRAWINGS.
2. ALL MATERIAL SHALL BE GALVANIZED AND ALL SCREWS SHALL BE SUITABLE GRADE STAINLESS STEEL OR ZINC PLATED.
3. ALL WELDS AND ABRASIONS IF ANY SHALL BE TOUCHED UP WITH ZINC RICH PAINT.
4. LIGHT GAGE HEADERS OVER DOOR AND WINDOW OPENINGS IN EXTERIOR WALLS SHALL BE COMPOSED OF MULTIPLE MEMBERS AS NOTED ON THE ON THE DRAWINGS.
5. ALL EXTERIOR WALL STUDS SHALL BE S200–68 MIL. 50KSI (MIN.) STUDS SPACED AT 16" o/c. MAXIMUM WITH MINIMUM TWO LINES OF HORIZONTAL BRIDGING AT 1/3 POINTS OF STUD HEIGHT. BRIDGING TYPE PROVIDED SHALL BRACE BOTH STUDS FLANGES AGAINST LATERAL TORSIONAL BUCKLING.
6. ALL EXTERIOR WALL TRACK UNITS SHALL BE T200–68 MIL. 50KSI MATERIAL (MIN.).
7. ALL TOP AND BOTTOM TRACK UNITS SHALL BE FASTENED TO STEEL STRUCTURE OR CONCRETE WITH 2~0.157 HILTI X–U POWDER ACTUATED FASTENERS PER STUD. MINIMUM LENGTH TO STEEL SHALL BE 3/4". MINIMUM LENGTH TO CONCRETE SHALL BE 1".
8. FASTENING TO CONCRETE SHALL ONLY BE DONE AFTER THE CONCRETE COMPRESSIVE STRENGTH REACHES 3000 PSI.
9. ALL MULTIPLE MEMBERS SHALL BE INTERCONNECTED SO AS TO ACT AS A COMPOSITE UNIT. ALL INDIVIDUAL MEMBERS COMPRISING A MULTIPLE MEMBER SHALL BE FULL LENGTH UNSPLICED MATERIAL.
10. ALL CONNECTIONS SHALL BE SCREWED OR WELDED TOGETHER BOTH SIDES WITH SUFFICIENT WELDS OR SCREWS TO SAFELY SUPPORT THE LOADS TO BE IMPOSED ON THE CONNECTIONS.
11. ALL CONNECTIONS SHALL BE ACCOMPLISHED WITH STANDARD ACCESSORY COMPONENTS SUPPLIED FOR THAT PURPOSE.
12. ALL CONNECTION DESIGNS FOR THE LIGHT GAGE FRAMING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT.
13. REFER TO ARCHITECTURAL DRAWINGS FOR INTERIOR METAL STUD PARTITION WALL REQUIREMENTS. PROVIDE BRACING FOR TOPS OF ALL PARTITIONS TO MAIN STRUCTURE FOR PROPER PARTITION STABILITY.

DESIGN CODE DATA (NEW BASE BID CONSTRUCTION ONLY)

1. IMPORTANCE FACTORS:

WIND	Iw = 1.0
SNOW	Is = 1.1
SEISMIC	Ie = 1.25

2. LIVE LOAD:

ROOF	20	PSF
PLATFORMS	60	PSF
CORRIDORS	80	PSF
STAIRS	100	PSF

3. DEAD LOAD:

ROOF	20	PSF (MAXIMUM)

4. SNOW LOAD:

Pg	10.0	PSF
Ct	1.0	
Ce	0.9	
Pf	7.6	PSF
Ps	7.6	PSF

5. WIND LOAD: V_{ULT} = 131 3 SEC PEAK GUST MPH (ASCE 7 – 10); V_{ASD} = 101.4 MPH

EXPOSURE	C	
INTERNAL PRES. COEFF.	+/– 0.18	(ENCLOSED)
MWFRS DESIGN WIND PRES.	37.3 PSF	
WIND BASE SHEARS	V_X (KIPS) =	241
	V_Y (KIPS) =	194

6. SEISMIC DESIGN (ASCE 7 – 10):

Ss	0.124
S1	0.063
Sms	0.311
Sm1	0.219
Sds	0.207
Sd1	0.146
DESIGN CATEGORY	C
SITE CLASS	E
USE GROUP	III
MWFRS	H. STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE
R	3
Cs	0.05458
PROCEDURE	EQUIV. LATERAL FORCE
COMPONENTS	ANCHORED

LATERAL DESIGN CONTROLS: WIND

SEISMIC BASE SHEARS: V_X (KIPS) = 31; V_Y (KIPS) = 31

7. SOIL BEARING VALUE 1000 PSF. (BASED ON REPORT BY TERRACON DATED 12/27/2022 – PROJ NO. 72225128)

DIMENSIONS

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING ALL DIMENSIONS IN THE DRAWINGS AND ADVISING THE ARCHITECT OF ANY DIFFERENCES IN THE DIMENSIONS ON THE DRAWINGS PRIOR TO COMMENCING CONSTRUCTION.

EXISTING CONDITIONS

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING ALL EXISTING JOB CONDITIONS. ANY ADVERSE EXISTING CONDITIONS AFFECTING WORK SHOWN ON THESE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR POSSIBLE CLARIFICATION OF RECONCILIATION.

CONSTRUCTION SAFETY

1. THESE DRAWINGS DO NOT CONTAIN THE REQUIREMENTS FOR JOB SAFETY. ALL PROVISIONS FOR SAFETY SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

SPECIAL INSPECTIONS

1. SPECIAL INSPECTIONS SHALL BE PERFORMED CONTINUOUSLY OR PERIODICALLY AS REQUIRED BY CHAPTER 17 OF THE NORTH CAROLINA STATE BUILDING CODE AS SCHEDULED BELOW.
2. SPECIAL INSPECTORS SHALL BE DULY CERTIFIED TO INSPECT THE WORK REQUIRING THE INSPECTION AS SCHEDULED.
3. SPECIAL INSPECTION NOTES:
   A) THE INSPECTOR SHALL MONITOR ALL SOIL CUTTING AND FILLING AREAS UNDER THE BUILDING AND TO 10' OUTSIDE THE BUILDING AREA.
   B) ALL CONTINUOUS AND INDIVIDUAL SPREAD FOOTING EXCAVATIONS SHALL BE VERIFIED BY THE INSPECTOR FOR LOCATION, SIZE, AND ELEVATION.
   C) THE INSPECTOR SHALL VERIFY ALL FOUNDATION REINFORCING STEEL PLACEMENT, SIZES, BENDING AND LAP DETAILS.
   D) THE BEARING CAPACITY FOR ALL FOOTINGS SHALL BE FIELD TESTED BY THE INSPECTOR AFTER THE REINFORCING IS IN PLACE AND DEEMED READY FOR THE CONCRETE PLACEMENT.
   E) CONCRETE WORK SHALL BE INSPECTED IN ACCORDANCE TABLE 1704.4 OF THE NORTH CAROLINA STATE BUILDING CODE.
   F) THE INSPECTOR SHALL PROVIDE CONTINUOUS OBSERVATION OF ALL FOUNDATION CONCRETE PLACEMENT OPERATIONS.
   G) ALL MASONRY WORKS SHALL BE INSPECTED TO LEVEL 1 SPECIAL INSPECTIONS PER TABLE 1704.5.1 OF THE NORTH CAROLINA STATE BUILDING CODE.
   H) PRE–ENGINEERED STEEL FRAMING SHALL BE INSPECTED IN ACCORDANCE WITH TABLE 1704.5 OF THE NORTH CAROLINA STATE BUILDING CODE. INSPECTION OF THE STEEL FABRICATORS SHOP OPERATIONS WILL NOT BE REQUIRED FOR FABRICATORS CERTIFIED BY AISC.
   I) SHOPS NOT CERTIFIED BY AISC WILL REQUIRE IN SHOP INSPECTION ACCORDING TO THE NORTH CAROLINA STATE BUILDING CODE SECTION 1704.3
   J) ALL PRE–ENGINEERED STEEL FABRICATION SHALL BE PERFORMED IN SHOPS WITH MINIMUM OF FIVE YEARS OF SATISFACTORY COMPLETION OF WORK SIMILAR TO WORK OF THIS PROJECT.
   K) PRE–ENGINEERED STEEL ERECTION SHALL BE PERIODICALLY INSPECTED.
   L) WELD CERTIFICATION PAPERS FOR ALL FIELD WELDERS SHALL BE VERIFIED BY THE SPECIAL INSPECTOR.
   M) ALL SINGLE PASS FIELD FILLET WELDING UP TO AND INCLUDING 1/4" SHALL BE PERIODICALLY INSPECTED. CONTINUOUS INSPECTION SHALL BE PERFORMED ACCORDING TO AWS1.1 ON ALL PARTIAL AND FULL PENETRATION GROOVE AND BUTT WELDING AND, ALL MULTI PASS FILLET WELDS GREATER THAN 1/4".
   N) ALL FIELD WELDING OF LIGHT GAGE MEMBERS TO STRUCTURAL STEEL PARTS SHALL BE PERIODICALLY INSPECTED.
   O) LIGHT GAGE FRAMING IN EXTERIOR WALLS SHALL BE PERIODICALLY INSPECTED.
   P) INSPECTION SHALL COVER MEMBER SIZES, SHAPES, THICKNESSES STRAIGHTNESS, SCREW SIZES AND NUMBER, STRAP & ROD BRACING SIZE AND CONNECTION DETAILS, SAG ROD AND BRIDGING SIZE AND CONNECTION DETAILS, WALL OPENING HEADER AND JAMB SIZE AND CONNECTION DETAILS, WALL ALIGNMENT AND PLUMBNESS, AND DETAILS OF WORKMANSHIP AND INTERCONNECTION OF LIGHT GAGE MEMBERS CONNECTED BY BOLTS, SCREWS, OR FIELD WELDING AND ALL METAL ROOF AN WALL PANEL COMPONENT CONNECTIONS INCLUDING TRIM, GUTTERS AND DOWNSPOUTS.
   Q) SPECIAL INSPECTORS SHALL BE IN DIRECT COMMUNICATION WITH THE ENGINEER OF RECORD DURING THE INSPECTION PROCESS.
   R) FULL REPORTS OF ALL INSPECTIONS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD.

QUALITY ASSURANCE – WIND AND SEISMIC

1) MILL TEST REPORTS FOR ALL STRUCTURAL STEEL MATERIAL SHALL BE SUBMITTED FOR APPROVAL WITH THE SHOP DRAWINGS.
2) MILL TEST REPORTS FOR ALL METAL DECK AND STRUCTURAL PROPERTIES OF DECK PROFILES SHALL BE SUBMITTED WITH THE SHOP DRAWINGS FOR APPROVAL.
3) ALL METAL SIDING AND ROOF DECK SHALL BE ROLL FORMED IN A STEEL DECK INSTITUTE (SDI) CERTIFIED SHOP.
4) MILL TEST REPORTS FOR ALL BOLTS AND SCREWS SHALL BE SUBMITTED FOR APPROVAL WITH THE SHOP DRAWINGS.
5) ALL FIELD WELDING SHALL BE PERFORMED BY WELDING PERSONNEL HOLDING CURRENT CERTIFICATION BY AWS FOR THE TYPES OF WELDING BEING PERFORMED. THE CERTIFICATION PAPERS SHALL BE EXAMINED AND APPROVED BY THE TESTING AGENCY.
6) MILL TEST REPORTS FOR ALL REINFORCING STEEL SHALL BE SUBMITTED WITH THE SHOP DRAWINGS.
7) TEST REPORTS FOR ALL CONCRETE SHALL BE SUBMITTED PRIOR TO CONSTRUCTION.

SUBMITTAL LIST

1.) SOIL COMPACTION TESTS AND FIELD REPORTS
2.) CONCRETE MIX DESIGNS AND ADMIXTURES
3.) METAL BUILDING REACTIONS AND SHOP DRAWINGS
4.) CONCRETE CYLINDER BREAK REPORTS
5.) CONCRETE SLUMP TESTS
6.) CONCRETE FINISHING PRODUCTS AND METHODS
7.) ASTM GRAVEL / STONE CERTIFICATIONS
8.) STEEL REINFORCEMENT SHOP DRAWINGS

No.	Date:	Revision

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NORTH CAROLINA PROFESSIONAL SEAL 18991 ENGINEER BRUCE L QUEEN
Bruce L Queen
21 FEB 2023

COMMUNITY CENTER AND GYMNASIUM FOR
Alice F. Keene District Park
4561 County Home Road, Greenville, NC 27858

Project No. 22207
Date: 21 FEB 2023
Drawing no. S 1201

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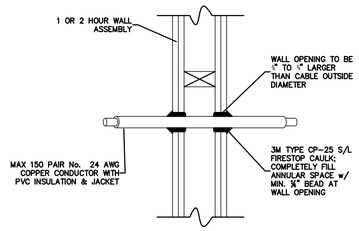
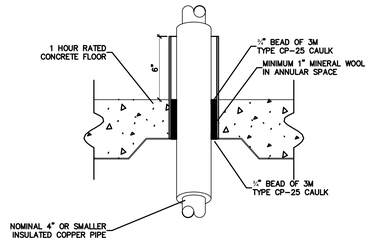


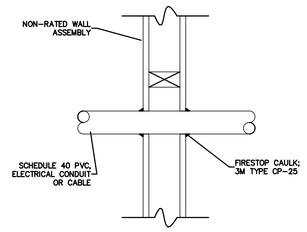
FIRESTOP PENETRATION UL # W-L-3001

001.16 CABLE THROUGH 1 OR 2 HOUR RATED GYPBOARD WALL
SCALE: none

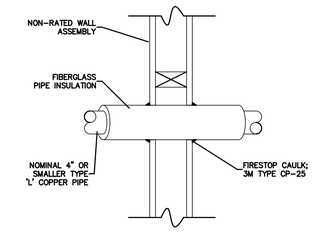


FIRESTOP PENETRATION UL # C-AJ-5001

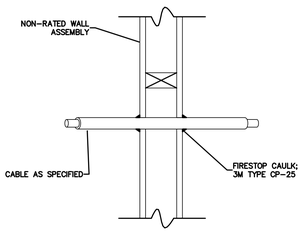
001.12 INSULATED PIPE THRU 1 HOUR RATED CONCRETE FLOOR
SCALE: none



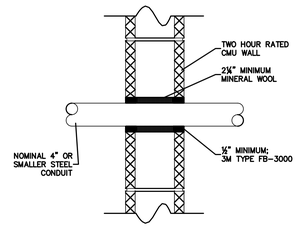
001.8 PIPE / CONDUIT / CABLE THRU NON-RATED WALL
SCALE: none



001.4 INSULATED PIPE THRU NON-RATED WALL
SCALE: none

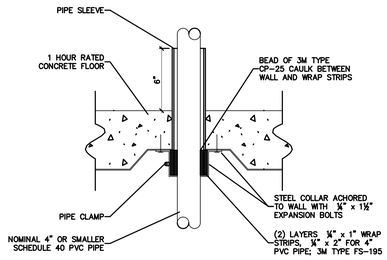


001.15 CABLE THRU NON-RATED WALL
SCALE: none



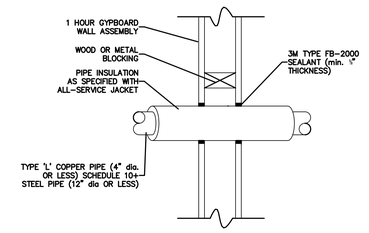
FIRESTOP PENETRATION UL # C-AJ-1014

001.11 CONDUIT THRU 2 HOUR RATED CMU WALL
SCALE: none



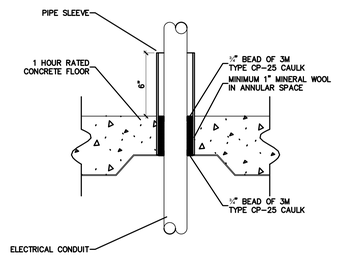
FIRESTOP PENETRATION UL # C-AJ-2001

001.7 PVC PIPE THRU 1 HOUR RATED CONCRETE FLOOR
SCALE: none



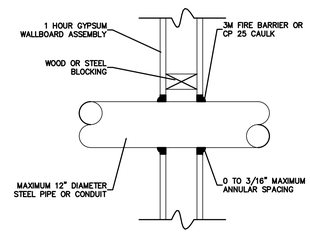
FIRESTOP PENETRATION UL # W-L-5032

001.3 INSULATED PIPE THRU 1 HOUR RATED GYPBOARD WALL
SCALE: none



FIRESTOP PENETRATION UL # C-AJ-2001

001.14 CONDUIT THRU 1 HOUR RATED CONCRETE FLOOR
SCALE: none



FIRESTOP PENETRATION UL # W-L-1001

001.10 CONDUIT THRU 1 HOUR RATED GYPBOARD WALL
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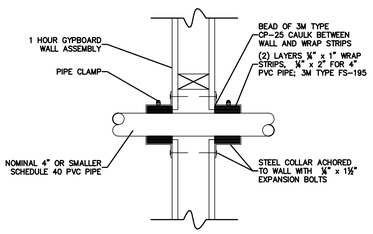

FIRESTOP PENETRATION UL # W-L-2002

001.6 PVC PIPE THRU 1 HOUR RATED GYPBOARD WALL
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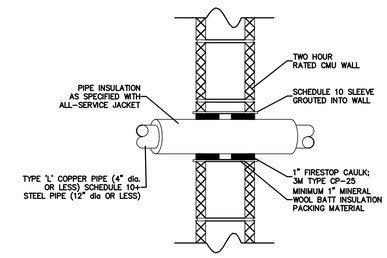
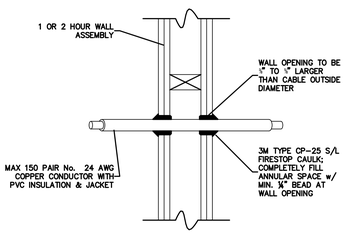


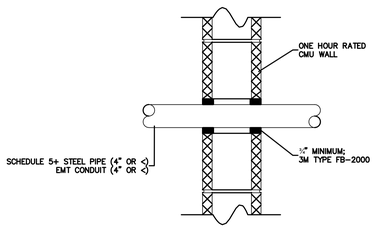
FIRESTOP PENETRATION UL # C-AJ-5001

001.2 INSULATED PIPE THRU 2 HOUR RATED CMU WALL
SCALE: none



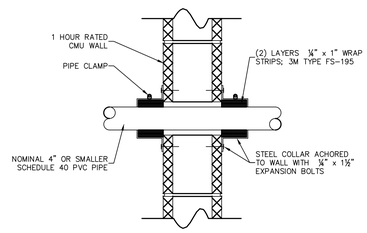
FIRESTOP PENETRATION UL # W-L-3001

001.13 CABLE THROUGH 1 OR 2 HOUR RATED GYPBOARD WALL
SCALE: none



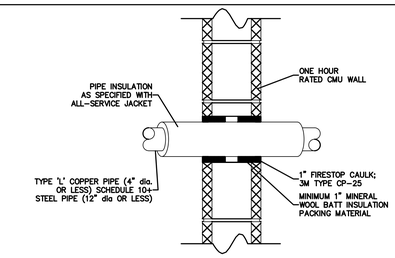
FIRESTOP PENETRATION UL # C-AJ-1013

001.9 CONDUIT THRU 1 HOUR RATED CMU WALL
SCALE: none



FIRESTOP PENETRATION UL # C-AJ-2025

001.5 PVC PIPE THRU 1 HOUR RATED CMU WALL
SCALE: none



FIRESTOP PENETRATION UL # C-AJ-5001

001.1 INSULATED PIPE THRU 1 HOUR RATED CMU WALL
SCALE: none

NOTE: ALL MEMBRANE PENETRATIONS SHALL BE SEALED PER THE CORRESPONDING THROUGH PENETRATION DETAIL PER NC BUILDING CODE.

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7/21/23

No.	Date	Revision

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HITE ASSOCIATES, P.C. REGISTERED CORPORATION NORTH CAROLINA 4118 GREENVILLE

COMMUNITY CENTER AND GYMNASIUM FOR
Alice F. Keene District Park
4561 County Home Road, Greenville, NC 27858

Project No. 22207
Date: July 2023
Drawing no. FP 001

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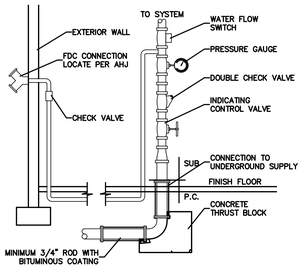
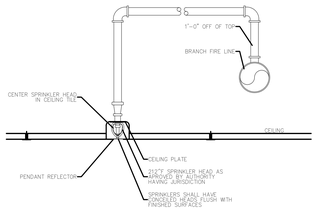
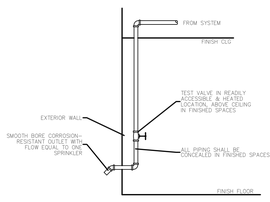


101.3 SPRINKLER SYSTEM RISER
SCALE: none



101.4 SPRINKLER HEAD DETAIL
SCALE: none



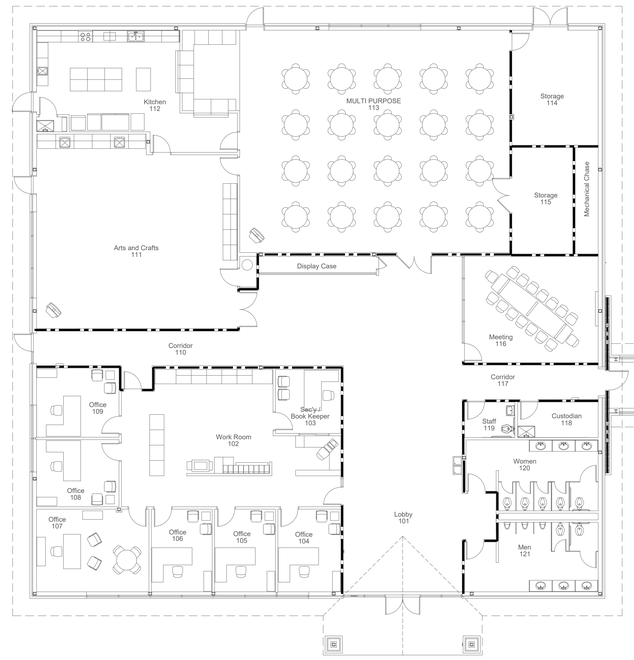
101.5 SYSTEM TEST CONNECTION
SCALE: none

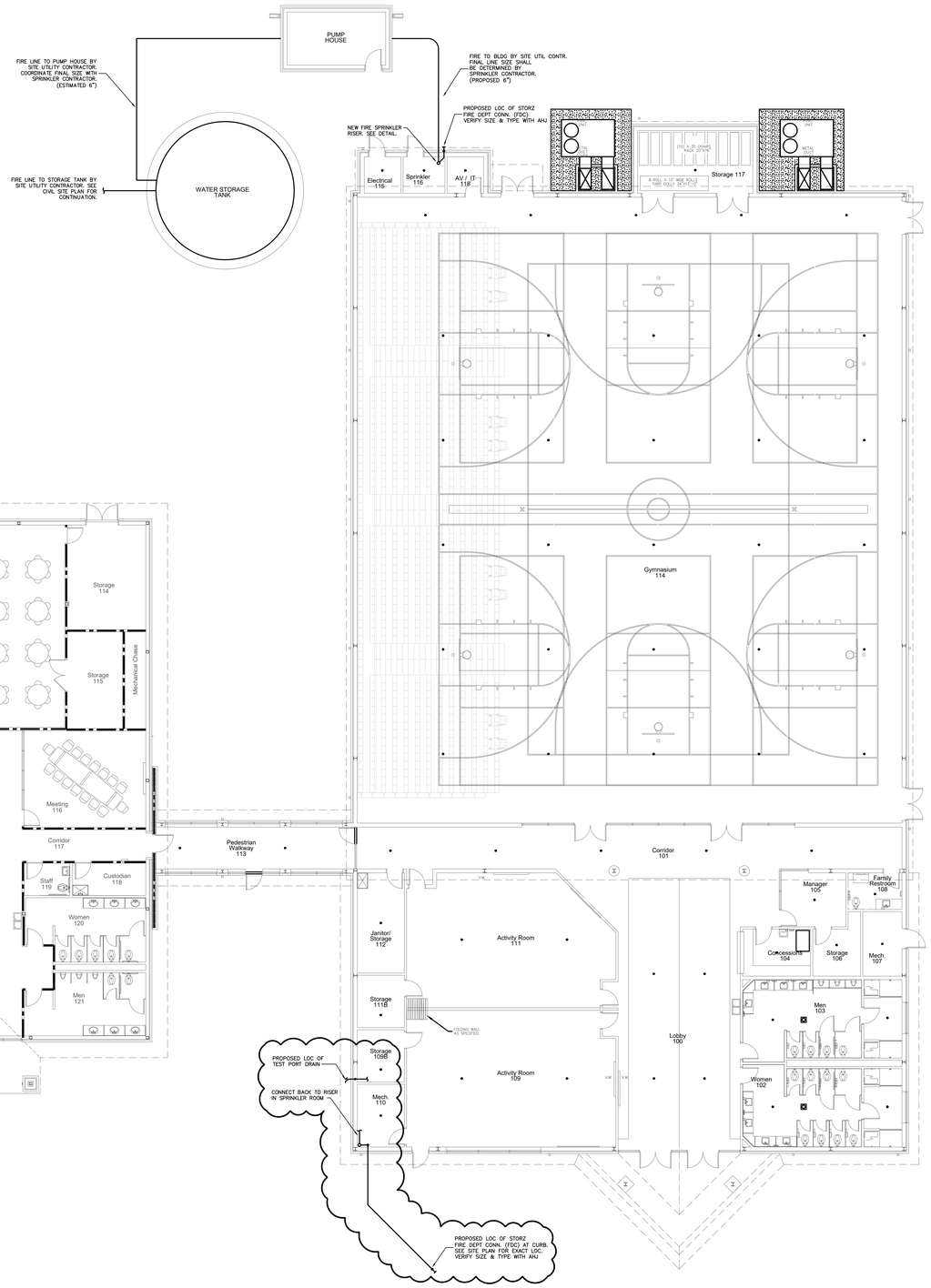
DESIGN CRITERIA (BASE BID)	
SYSTEM TYPE:	WET
CLASSIFICATION:	REFER TO SPECIFICATIONS
DENSITY:	REF. SPECS. DESIGN CRITERIA
PROTECTION AREA:	20,525
MIN. FIRE FLOW PER NC FIRE CODE TABLE B105.1.2	3,500 gpm
PIPE SIZING:	HYD CALCS
REMOTE AREA:	1500 sf
HOSE:	250 gpm

FIRE FLOW DATA	
MAIN SIZE:	PROPOSED 6"
ELEV:	
STATIC PRESS:	70 PSI
VOLUME:	650 GPM
RESIDUAL PRESS:	42 PSI
LOCATION:	LOCAL HYDRANT

REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

NOTE:
FIRE FLOWS MUST MEET NC FIRE CODE APPENDIX B FOR TYPE IIB CONSTRUCTION AND THE TOTAL SF OF BUILDING UNDER ROOF. F.S. CONTRACTOR IS RESPONSIBLE FOR ACCURATELY DETECTING FIRE FLOW PRIOR TO BID & PROVIDING COMMITMENT LETTER FROM WATER UTILITY WITH SHOP DRAWING SUBMITAL TO ENGINEER & AHJ.





FIRE SUPPRESION PLAN (BASE BID)
SCALE: 3/32" = 1'-0"

No.	Date	Revision

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Project No: 22207
Date: July 2023
Drawing no. FS 101

ES Project No: ES22044
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D. Wilson Pou
SEAL 030722 ENGINEER
7/21/23
D. WILSON POU

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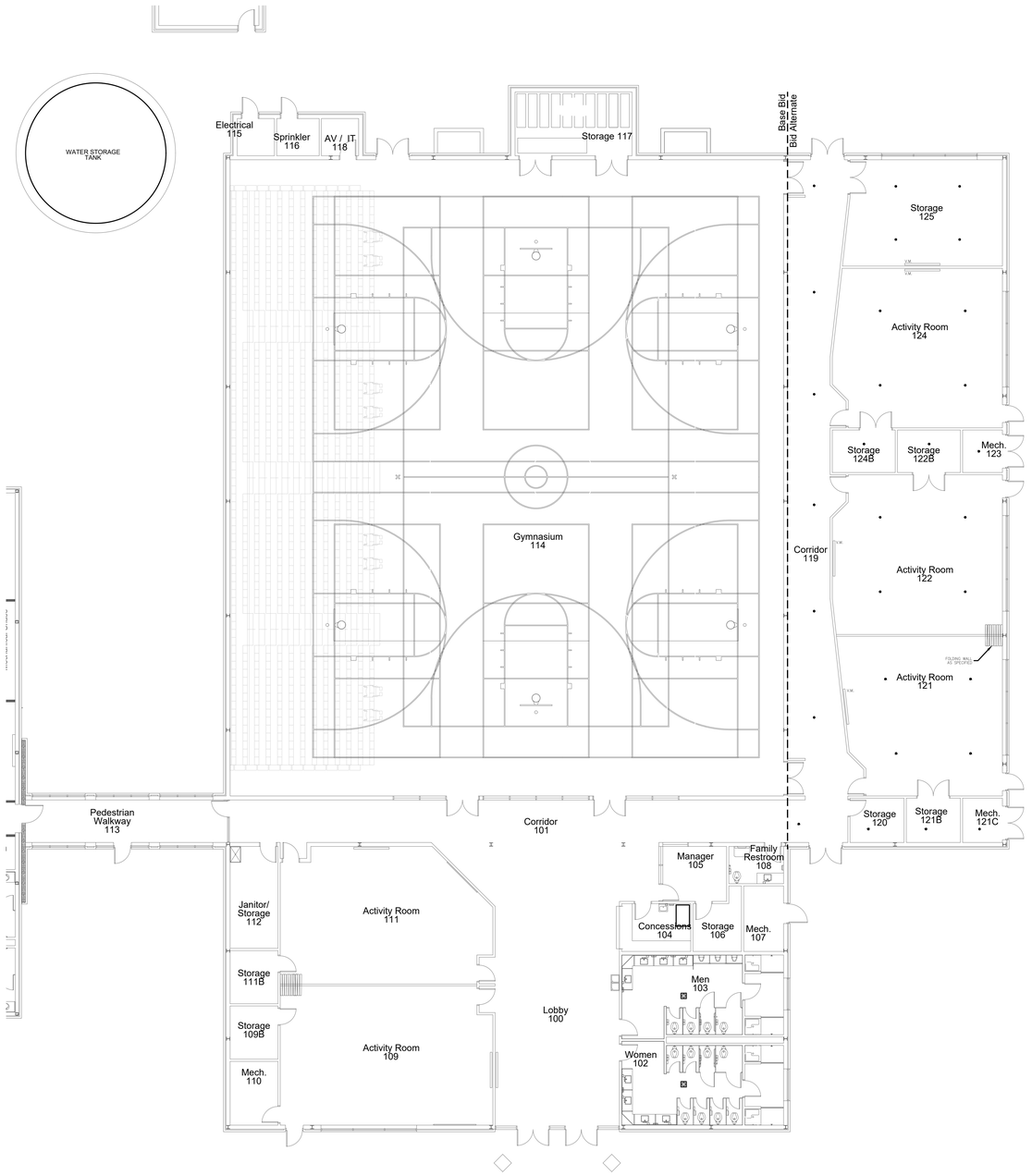

FIRE SUPPRESION PLAN (ALTERNATE BID)
SCALE: 3/32" = 1'-0"

DESIGN CRITERIA (ALT BID)

SYSTEM TYPE:	WET
CLASSIFICATION:	REFER TO SPECIFICATIONS
DENSITY:	REF. SPECS. DESIGN CRITERIA
PROTECTION AREA:	27,255
MIN. FIRE FLOW PER NC FIRE CODE TABLE B105.1.2	3,500 gpm
PIPE SIZING:	HYD CALCS:
REMOTE AREA:	1500 sf
HOSE:	250 gpm

FIRE FLOW DATA

MAIN SIZE:	PROPOSED 6"
ELEV:	
STATIC PRESS:	70 PSI
VOLUME:	650 GPM
RESIDUAL PRESS:	42 PSI
LOCATION:	LOCAL HYDRANT

REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

NOTE:
FIRE FLOWS MUST MEET NC FIRE CODE APPENDIX B FOR TYPE IIB CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR ASSURING FIRE FLOW PRIOR TO BID & PROVIDING COMMITMENT LETTER FROM WATER UTILITY WITH SHOP DRAWING SUBMITTAL TO ENGINEER & AHJ.

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COMMUNITY CENTER AND GYMNASIUM FOR
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ES Project No: ES22044

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Project No.	22207
Date:	July 2023
Drawing no.	FS 101A

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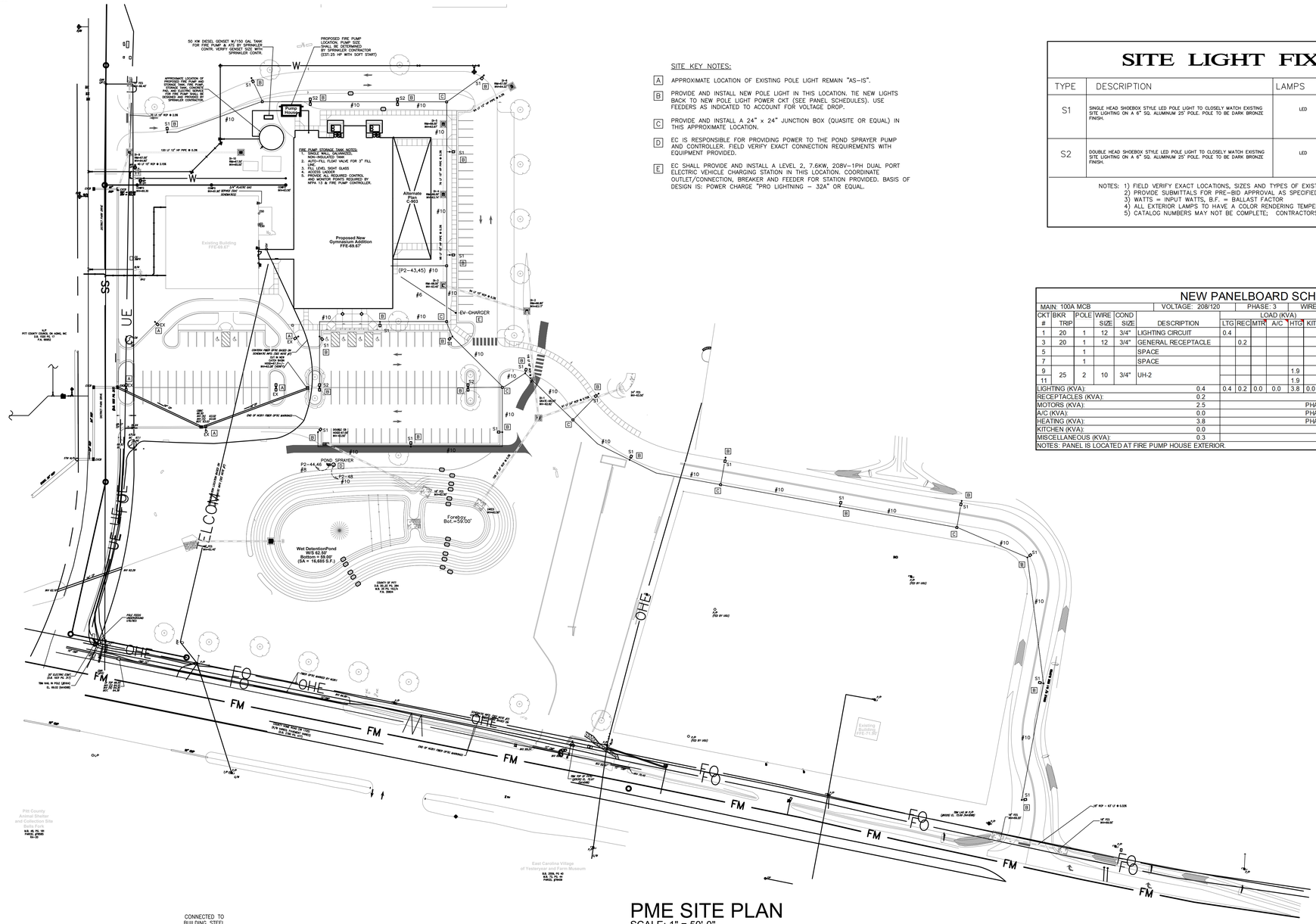


PME SITE PLAN
SCALE: 1" = 50'-0"

SITE KEY NOTES:

A APPROXIMATE LOCATION OF EXISTING POLE LIGHT REMAIN "AS-IS".

B PROVIDE AND INSTALL NEW POLE LIGHT IN THIS LOCATION. TIE NEW LIGHTS BACK TO NEW POLE LIGHT POWER CKT (SEE PANEL SCHEDULES). USE FEEDERS AS INDICATED TO ACCOUNT FOR VOLTAGE DROP.

C PROVIDE AND INSTALL A 24" x 24" JUNCTION BOX (QUASITE OR EQUAL) IN THIS APPROXIMATE LOCATION.

D EC IS RESPONSIBLE FOR PROVIDING POWER TO THE POND SPRAYER PUMP AND CONTROLLER. FIELD VERIFY EXACT CONNECTION REQUIREMENTS WITH EQUIPMENT PROVIDED.

E EC SHALL PROVIDE AND INSTALL A LEVEL 2, 7.6KW, 208V-1PH DUAL PORT ELECTRIC VEHICLE CHARGING STATION IN THIS LOCATION. COORDINATE OUTLET/CONNECTION, BREAKER AND FEEDER FOR STATION PROVIDED. BASIS OF DESIGN IS: POWER CHARGE "PRO LIGHTNING – 32A" OR EQUAL.

SITE LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	LAMPS	VOLTS	WATTS	B.F.	CATALOG NUMBER
S1	SINGLE HEAD SHOEBOX STYLE LED POLE LIGHT TO CLOSELY MATCH EXISTING SITE LIGHTING ON A 6" SQ. ALUMINUM 25' POLE. POLE TO BE DARK BRONZE FINISH.	LED	208V/UNIV	90	–	POLE MOUNTED SITE LIGHT WITH ARM AND LED HEAD ON 25'-0" SQUARE POLE. PROVIDE FIXTURE WITH UNIT MOUNTED PHOTOCELL. FIXTURE BY GUARDCO: #EH14L-48L-NWG3-AR3-2-208-BRA (FIELD VERIFY POLE AND COLOR TO MATCH EXISTING) OR APPROVED EQUAL BY LITHONIA OR HUBBELL
S2	DOUBLE HEAD SHOEBOX STYLE LED POLE LIGHT TO CLOSELY MATCH EXISTING SITE LIGHTING ON A 6" SQ. ALUMINUM 25' POLE. POLE TO BE DARK BRONZE FINISH.	LED	208V/UNIV	180		SAME AS ABOVE FIXTURE BUT WITH (2) HEADS.

NOTES: 1) FIELD VERIFY EXACT LOCATIONS, SIZES AND TYPES OF EXISTING LIGHTS AND EXISTING CIRCUITS.
2) PROVIDE SUBMITTALS FOR PRE-BID APPROVAL AS SPECIFIED IN "INSTRUCTIONS TO BIDDERS"; ARTICLE 3.3.2
3) WATTS = INPUT WATTS, B.F. = BALLAST FACTOR
4) ALL EXTERIOR LAMPS TO HAVE A COLOR RENDERING TEMPERATURE INDEX OF 4000K TO 5000K
5) CATALOG NUMBERS MAY NOT BE COMPLETE; CONTRACTORS RESPONSIBILITY TO VERIFY CATALOG NUMBER

NEW PANELBOARD SCHEDULE - "FP" (NEMA-3R RATED)

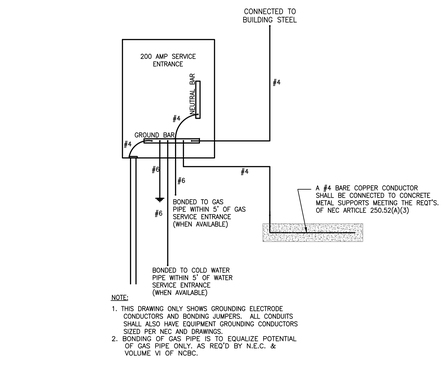
MAIN: 100A MCB | VOLTAGE: 208/120 | PHASE: 3 | WIRE: 4 | MOUNTING: SURFACE | AIC: 22,000 | BUS BARS: COPPER

CKT #	BKR TRIP	POLE	WIRE SIZE	COND SIZE	DESCRIPTION	LOAD (KVA) LTG	REC	MTR	A/C	HTG	KIT	MISC	PHASE	LOAD (KVA) LTG	REC	MTR	A/C	HTG	KIT	MISC	DESCRIPTION	COND SIZE	WIRE SIZE	POLE	BKR TRIP	CKT #
1	20	1	12	3/4"	LIGHTING CIRCUIT	0.4							A							0.3	XP-10 MONIOTR PNL	3/4"	12	1	20	2
3	20	1	12	3/4"	GENERAL RECEPTACLE		0.2						B								SPARE	3/4"	12	1	20	4
5		1			SPACE								C								SPARE	3/4"	12	1	20	6
7		1			SPACE								A			1.3					JOCKEY PUMP (2HP)	3/4"	10	2	25	8
9	25	2	10	3/4"	UH-2					1.9			B			1.3										10
11										1.9			C								SPARE					12
LIGHTING (KVA):						0.4	0.4	0.2	0.0	0.0	3.8	0.0	0.0		0.0	0.0	2.5	0.0	0.0	0.0	0.3	CONNECTED LOAD (KVA):				7.2	
RECEPTACLES (KVA):						0.2																DEMAND LOAD (KVA):				7.3	
MOTORS (KVA):						2.5							PHASE A	2	16.3											
A/C (KVA):						0.0							PHASE B	3	27.8							CONNECTED LOAD (AMPS):				19.9	
HEATING (KVA):						3.8							PHASE C	2	15.7							DEMAND LOAD (AMPS):				20.2	
KITCHEN (KVA):						0.0								KVA	AMPS											
MISCELLANEOUS (KVA):						0.3																				

NOTES: PANEL IS LOCATED AT FIRE PUMP HOUSE EXTERIOR.

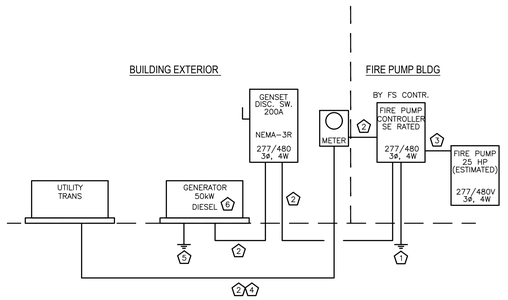
FP DEMAND CALCS

LIGHTING	0.40	KVA	X 125 %	=	0.5 KVA
RECEPTAC TOTAL	0.20	KVA			
1ST	10.00	KVA	X 100 %	=	0.2 KVA
REMAIN	0.00	KVA	X 50 %	=	0.0 KVA
MOTORS	2.50	KVA	X 100 %	=	2.5 KVA
A/C	0.00	KVA	X 100 %	=	0.0 KVA
HEATING	3.77	KVA	X 100 %	=	3.8 KVA
FUTURE	____	KVA	X 100 %	=	0.0 KVA
KITCHEN	0.00	KVA	X 65 %	=	0.0 KVA
MISCELLANEOUS	0.30	KVA	X 100 %	=	0.3 KVA
TOTAL =	20.2 amps			=	7.3 KVA



NOTE:
1. THIS DRAWING ONLY SHOWS GROUNDING ELECTRODE CONDUCTORS AND BONDING JUMPERS. ALL CONDUITS SHALL ALSO HAVE EQUIPMENT GROUNDING CONDUCTORS SIZED PER NEC AND DRAWINGS.
2. BONDING OF GAS PIPE IS TO EQUALIZE POTENTIAL OF GAS PIPE ONLY, AS REQ'D BY N.E.C. & VOLUME VI OF NCBC.

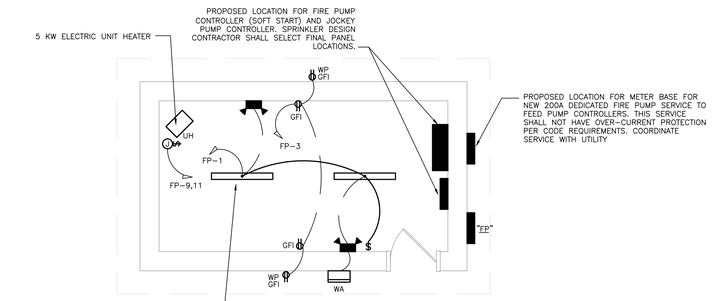
FIRE PUMP SERVICE GROUNDING
SCALE: N.T.S.



ELECTRICAL RISER NOTES:

1. SERVICE ENTRANCE GROUND PER DETAIL AND NEC ARTICLE 250 GROUNDING REQUIREMENTS.
2. 3-#3/0 IN 2.5"C
3. 3-#3 IN 1.5"C
4. COORDINATE UNDERGROUND SERVICE WITH UTILITY CO. PROVIDE ALL CONDUIT, WIRING, LABOR, AND/OR OTHER WORK AS REQUIRED BY UTILITY CO.
5. #6 G. DRIVEN GROUND FOR GENERATOR.
6. GENERATOR SHALL BE PROVIDED WITH ALL SAFETY OVER-RIDES REQUIRED BY NFPA 20-9.6.2.2 FOR FIRE PUMP SERVICE BACK-UP.

PUMP HOUSE RISER DIAGRAM
SCALE: N.T.S.



PUMP HOUSE PLAN
SCALE: 1/4" = 1'-0"

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PLUMBING GENERAL NOTES:

1. THE ENTIRE PLUMBING SYSTEM SHALL BE IN ACCORDANCE WITH N.C. PLUMBING CODE AND LOCAL PLUMBING INSPECTOR.

2. ALL WORK SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION. CONTRACTOR SHALL COORDINATE ROUTING OF ALL PIPING WITH EXISTING CONDITIONS AND SHALL PROVIDE ANY NECESSARY OFFSETS, TEES, REROUTING, ETC. REQUIRED FOR A COMPLETE AND COORDINATED INSTALLATION.

3. THESE PLANS ARE DIAGRAMMATIC. CONTRACTOR SHALL PROVIDE ALL NECESSARY OFFSETS, TEES, ELBOWS, ETC. FOR A COMPLETE WORKING PLUMBING SYSTEM.

4. THE CONTRACTOR SHALL OBTAIN AND PAY ALL FEES RELATED TO PERMITTING, INSPECTIONS, TAPS, ETC. (COST SHALL BE PASSED THROUGH TO OWNER).

5. CONTRACTOR SHALL COORDINATE ANY PLUMBING SYSTEM REQUIRING SHUTDOWN WITH THE OWNER 48 HOURS IN ADVANCE.

6. ALL DOMESTIC WATER PIPING SHOWN IS ABOVE BETWEEN FLOOR JOIST/WITHIN WALLS, AND IN CRAWL SPACES UNLESS OTHERWISE NOTED.

7. ALL DOMESTIC WATER PIPING (ABOVE SLAB) SHALL BE COPPER TUBING, CPVC OR FLEXIBLE PLASTIC TUBING (PEX). PIPING BELOW SLAB SHALL BE SOFT COPPER TUBING, 10'-0" MINIMUM, WITH NO JOINTS. COPPER TUBING BELOW GRADE SHALL BE UTILIZED AS THE ELECTRICAL SYSTEM GROUNDING ELECTRODE.

8. ALL WATER PIPING SHALL BE INSULATED WITH CLOSED CELL (ARMAFLEX) TYPE INSULATION WITH THE FLAME DENSITY RATING NOT EXCEEDING 25 & THE SMOKE DENSITY RATING NOT EXCEEDING 50. THICKNESS FOR COLD WATER PIPING SHALL BE 1/2" THICK. THICKNESS FOR HOT WATER & RETURN PIPING SHALL BE 1" THICK. INSTALL SADLES AS REQUIRED IN ALL LOCATIONS TO PREVENT COMPRESSION OF INSULATION.

9. ALL BRANCH LINES SHALL HAVE SHUT-OFF VALVES. ALL DOMESTIC WATER BALL VALVES SHALL BE BRASS BODY, FULL PORT, CHROME PLATED BALL. TEFLON SEATS 150 # WSP, FOR SIZES 1/2" THRU 2". PROVIDE VALVE HANDLE EXTENSIONS AS REQUIRED FOR INSULATION.

10. ALL SANITARY SEWER PIPING SHOWN IS BELOW SLAB/WITHIN WALLS UNLESS NOTED OTHERWISE. ALL SANITARY VENT PIPING SHOWN IS ABOVE CEILING/WITHIN WALLS UNLESS NOTED OTHERWISE.

11. ALL WASTE AND VENT PIPING SHALL BE SCHEDULE 40 PVC-DWV CONFORMING TO ASTM D 2665. ALL JOINTS SHALL BE SOLVENT WELDED TYPE CONFORMING TO ASTM D 2665/2949/3034, ASTM F 891, CSA B182.2,CSA CAN/CSA-B182.4

12. ALL PIPING SYSTEMS SHALL BE SUPPORTED AS REQUIRED BY NC PLUMBING CODE AND MANUFACTURERS RECOMMENDATIONS.

13. ALL PIPING PENETRATIONS THRU NEW AND EXISTING WALLS SHALL BE SEALED TO EQUAL RATING OF THE NEW/EXISTING WALL.

14. ALL PLUMBING SYSTEMS SHALL BE TESTED AS REQUIRED PER N.C. PLUMBING CODE.

15. THE PLUMBING CONTRACTOR SHALL COORDINATE ALL UNDER SLAB PIPING WITH ALL STRUCTURAL FOUNDATIONS, P.C. SHALL COORDINATE ALL UNDER SLAB PLUMBING WITH ELEVATION INVERTS WITH THE SITE UTILITY INVERTS.

16. THE ENTIRE PLUMBING SYSTEM SHALL BE DISINFECTED IN ACCORDANCE WITH NC PLUMBING CODE.

17. ROOF DECKING SHALL NOT BE PENETRATED TO SUPPORT WASTE LINES, VENT LINES, AND WATER SUPPLY LINES.

18. P.C. SHALL VERIFY AND SET THE MAXIMUM OUTLET TEMPERATURES AT ALL NON-COMMERCIAL KITCHEN EQUIPMENT INCLUDING HAND SINKS LOCATED IN THE KITCHEN TO NOT EXCEED 120'F BY INSTALLATION OF POINT OF USE ANTI-SCALD MIXING VALVES IF NECESSARY.

19. ALL ACCESS COVERS INCLUDING BUT NOT LIMITED TO IN-GRADE CLEANOUTS, MANHOLES, AND WATER METER BOXES SHALL BE FLUSH WITH FINISHED GRADE UNLESS OTHERWISE SPECIFIED

20. P.C. SHALL PROTECT ALL PLUMBING PIPE AS IT COMES UP THROUGH CONCRETE PER SECTION 305.1 OF THE N.C. PLUMBING CODE.

FIXTURE CALCULATIONS JUSTIFICATION			
OCCUPANCY = **BUSINESS/WAREHOUSE**	MINIMUM PLUMBING FIXTURES FROM TABLE 403.1		
		TOTAL REQUIRED	TOTAL PROVIDED
NET AREA FOR OCCUPANT CALC.:			
CAPACITY OF OFFICES = **10 PEOPLE**	MALES	1 WC 1 LAVATORY	4 WC 3 LAVATORY 3 UR
DIVISION OF FACILITIES PER TABLE 403.4: MALE: **50%** FEMALE: **50%** 10 x .5 = **5 FEMALE** 10 - 5 = **5 MALE**	FEMALES	1 WC 1 LAVATORY	4 LAVATORY 8 WC
	DRINKING FOUNTAINS	N/A	1 EWC

* LESS THAN 25 PEOPLE, UTILIZING UNISEX BATHROOMS.

EWH SCHEDULE

TAG	LOCATION	CAP	ELEMENT	TEMP	RCVY @ 60° RISE	MFR / MODEL no.	ELECT'L	NOTES
EWH	STORAGE ROOM	40	6000 W	110	20 GAL	A.O. SMITH No. DEN-40	208V 1Ø 21.7A	1,3,4,5

NOTES:
1) STATE INDUSTRIES, LOCHINVAR, OR RHEEM/RUUD MEETING OR EXCEEDING SPECIFICATIONS ARE ACCEPTABLE SUBSTITUTES
2) PROVIDE BRONZE BODY RECIRCULATION PUMP RATED FOR 8 GPM @ 10' HEAD, 1/12 hp, 115V; B&G No. LR-15B OR EQUAL BY TACO OR ARMSTRONG.
3) PROVIDE EWH WITH NON-SIMULTANEOUS DUAL ELEMENTS SIZED AS SPECIFIED
4) SEE DETAIL FOR ACCESSORIES
5) WATER HEATER SHALL COMPLY WITH SECTION 504 OF THE NORTH CAROLINA ENERGY CODE.

ABBREVIATIONS:
CAP = STORAGE CAPACITY (gal)
ELEMENT = (qty) WATTAGE
TEMP = HW OUTPUT TEMPERATURE (deg F)
RCVY = RECOVERY @ 100 deg F RISE (gph)
POU = POINT OF USE WATER HEATER

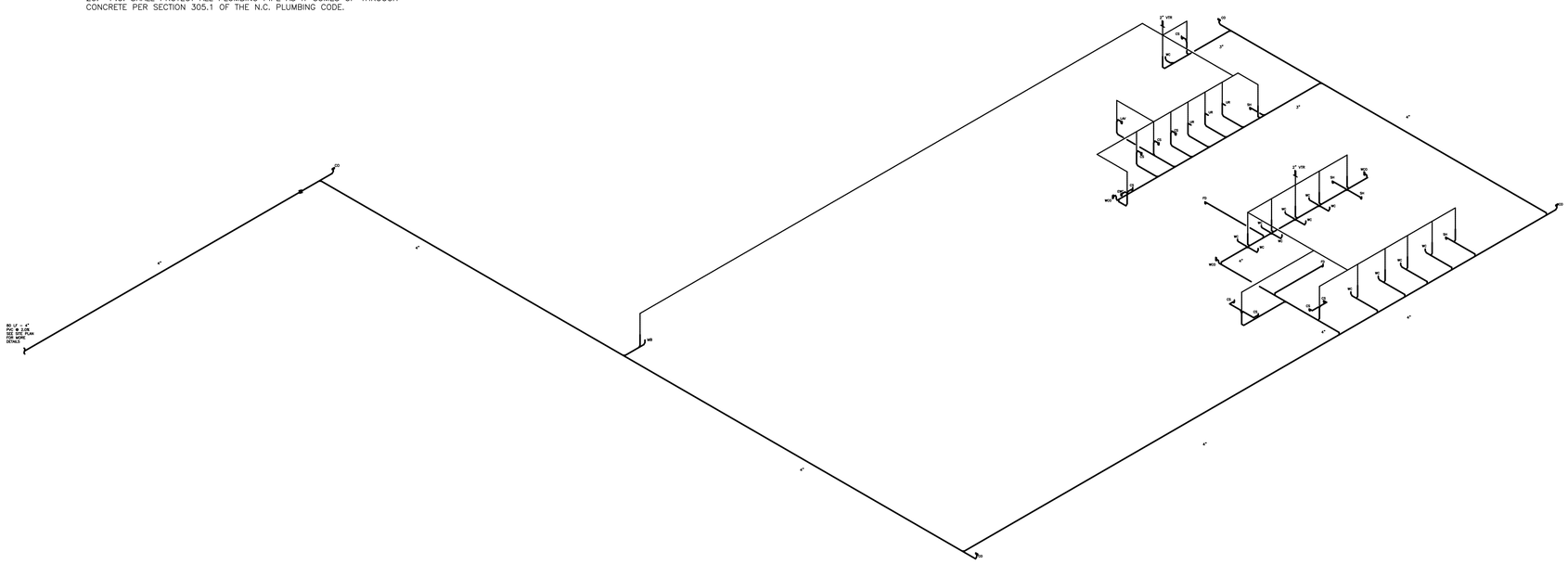
FIXTURE UNIT REQUIREMENTS

POTABLE WATER SUPPLY	89.5 GPM USE 1-1/2" SERVICE
WASTE	122.0 FU USE 4" SERVICE

PLUMBING FIXTURE SCHEDULE

ITEM	DESCRIPTION	FINISH	COLD	HOT	VENT	WASTE	ADA
WC	WATER CLOSET - TANK TYPE WHITE KOHLER "HIGHLINE" INGENIUM SYSTEM ELONGATED TOILET MODEL NO. K-3658	WHITE			2"	3"	YES
	SEAT - KOHLER K-4666-SA ANTI-MICROBIAL OPEN FRONT SEAT W/ SELF SUSTAINING CHECK HINGE	WHITE					YES
	TRIP LEVER - POLISHED CHROME-WIDE SIDE OF STALL	CHROME	3/4"				
UR	URINAL - WHITE VITREOUS CHINA, WALL HUNG, KOHLER "FRESHMAN" K-4989-T-0	WHITE			1-1/2"	2"	YES
	FLUSH VALVE - ZURN Z6003AV-WS1	CHROME	3/4"				YES
CS	COUNTER SINK - 18 GA UC MOUNTED STAINLESS STEEL: JUST US-13518-A (DEPTH PER ARCH COUNTER DETAIL)	BY ARCH.	1/2"			2"	YES
	FAUCET - ZURN BATTERY POWERED OPTICAL FAUCET #Z6913-XL-L						
	(OR EQUAL PRODUCT FROM MANUFACTURERS IN SPECIFICATIONS).			1/2"			
LAV	LAVATORY - KOHLER "HUDSON" WALL HUNG LAVATORY MODEL NO. K-2867 ENAMELD CAST IRON	WHITE	-	-	1 1/2"	2"	YES
	FAUCET - MOEN NO. 8886 IWO-HANDLE METERING OR EQUAL BY KOHLER	CHROME	1/2"	1/2"			YES
	TRUEBRO HANDI LAV-GUARD INSULATION KIT M# 102W (OR EQUAL FROM MANUFACTURERS SPECIFICATIONS).	WHITE					
SH	TILED SHOWER ENCLOSURE WITH HAND RAILS AND SEAT BY G.C. (SEE ARCHITECTURAL PLANS)	BY ARCH			2"	2"	YES
	HAND SHOWER-SYMMONS 96-500-B30-L-V PRESSURE (OR EQUAL FROM MANUFACTURERS SPECIFICATIONS).						
MS	MOP SINK - EL MUSTEE 24"X24" MOP SINK M# 63M				2"	3"	
	FAUCET - EL MUSTEE MOP SINK FAUCET M# 63.600A		3/4"	3/4"			
	(OR EQUAL PRODUCT FROM MANUFACTURERS IN SPECIFICATION.)						
EWC	ELECTRIC WATER COOLER IN HIGH LOW CONFIGURATION WITH BOTTLE FILLING STAION - ELKAY EMABFTLBWSLK	BY ARCH.	3/4"		1-1/2"	2"	YES
	8 GPH OF 50 ° F WATER @ 80° F INLET WATER AND 90° F ROOM TEMPERATURE.						
	(OR EQUAL PRODUCT FROM MANUFACTURERS IN SPECIFICATIONS).						
HB	HOSE BIB - WOODFORD KEYLESS, NON-FREEZELESS, IN A BOX M# B24-C	CHROME	3/4"				
	(OR EQUAL PRODUCT FROM MANUFACTURERS IN SPECIFICATIONS)						
AFH	WALL HYDRANT - WOODFORD SANITARY AUTOMATIC DRAINING FREEZELESS IN A RECESSED BOX M# B65	CHROME	3/4"				
	(OR EQUAL PRODUCT FROM MANUFACTURERS IN SPECIFICATIONS)						
FD	FLOOR DRAIN - ZURN M# ZN415B WITH TYPE "B" STRAINER	NICK-BRNZ					
	(OR EQUAL PRODUCT FROM MANUFACTURERS IN SPECIFICATION)					3"	
CO	CLEAN-OUT IN FLOOR - ZURN MODEL # ZN-1444-BP WITH INSIDE CAULK CONNECTION	BRONZE				3"	
	(OR EQUAL PRODUCT FROM MANUFACTURERS IN SPECIFICATIONS)						
WCO	WALL-CLEAN-OUT - ZURN M# ZN-1441-BP	BRONZE					
	(OR EQUAL PRODUCT FROM MANUFACTURERS IN SPECIFICATION)					2"	

*MODEL NUMBERS ARE PROVIDED TO ESTABLISH A LEVEL OF QUALITY. EQUAL QUALITY PRODUCTS ARE ACCEPTABLE.


80 LF = 4"
FOC @ 2.5%
SEE SITE PLAN
FOR SLOPE
DETAIL
4"
4"
4"

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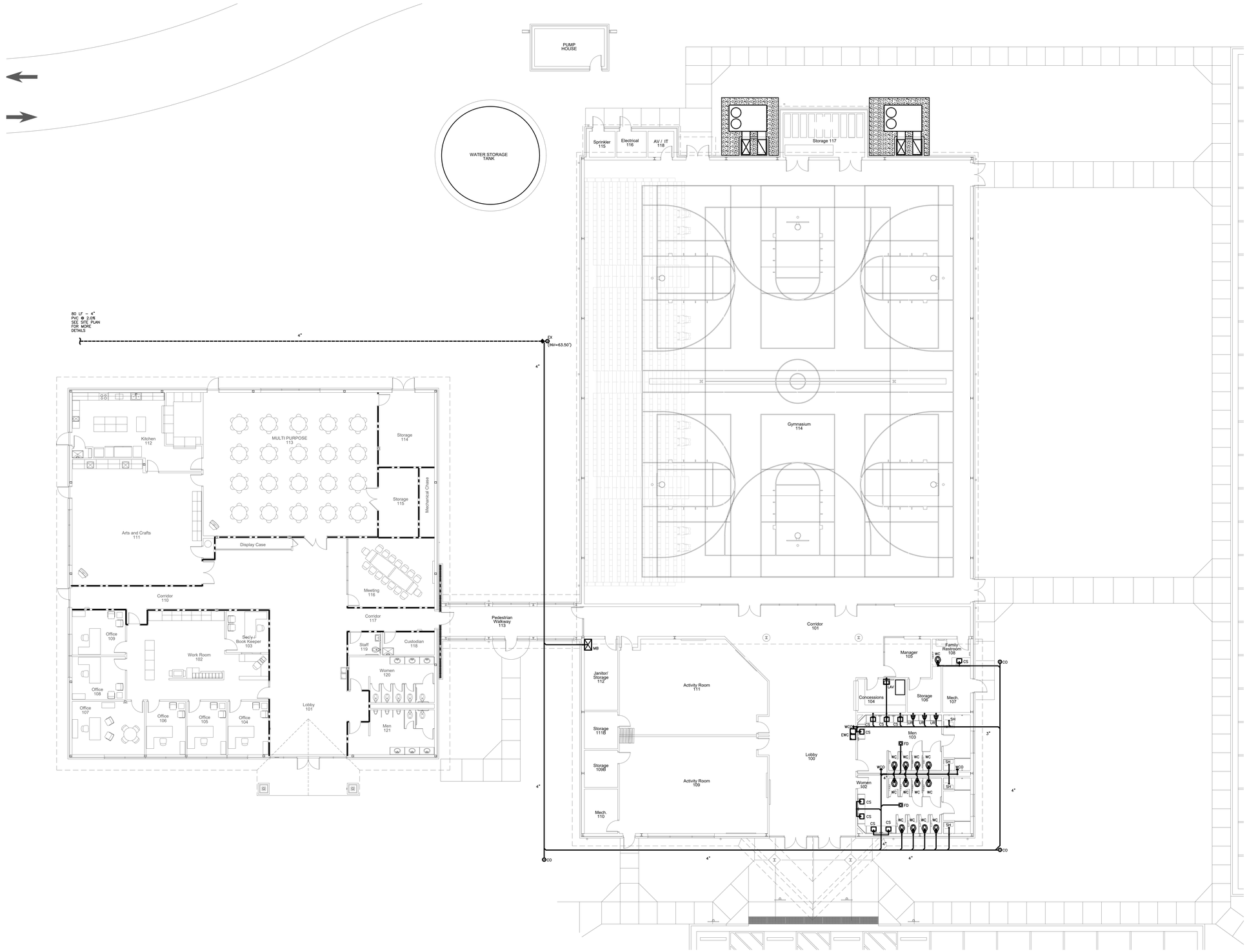

SANITARY SEWER PLAN
SCALE: 3/32" = 1'-0"

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COMMUNITY CENTER AND GYMNASIUM FOR
Alice F. Keene District Park
4561 County Home Road, Greenville, NC 27858

ENGINEERING SOURCE of NC, P.A.
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Project No.	22207
Date:	July 2023
Drawing no.	P 101

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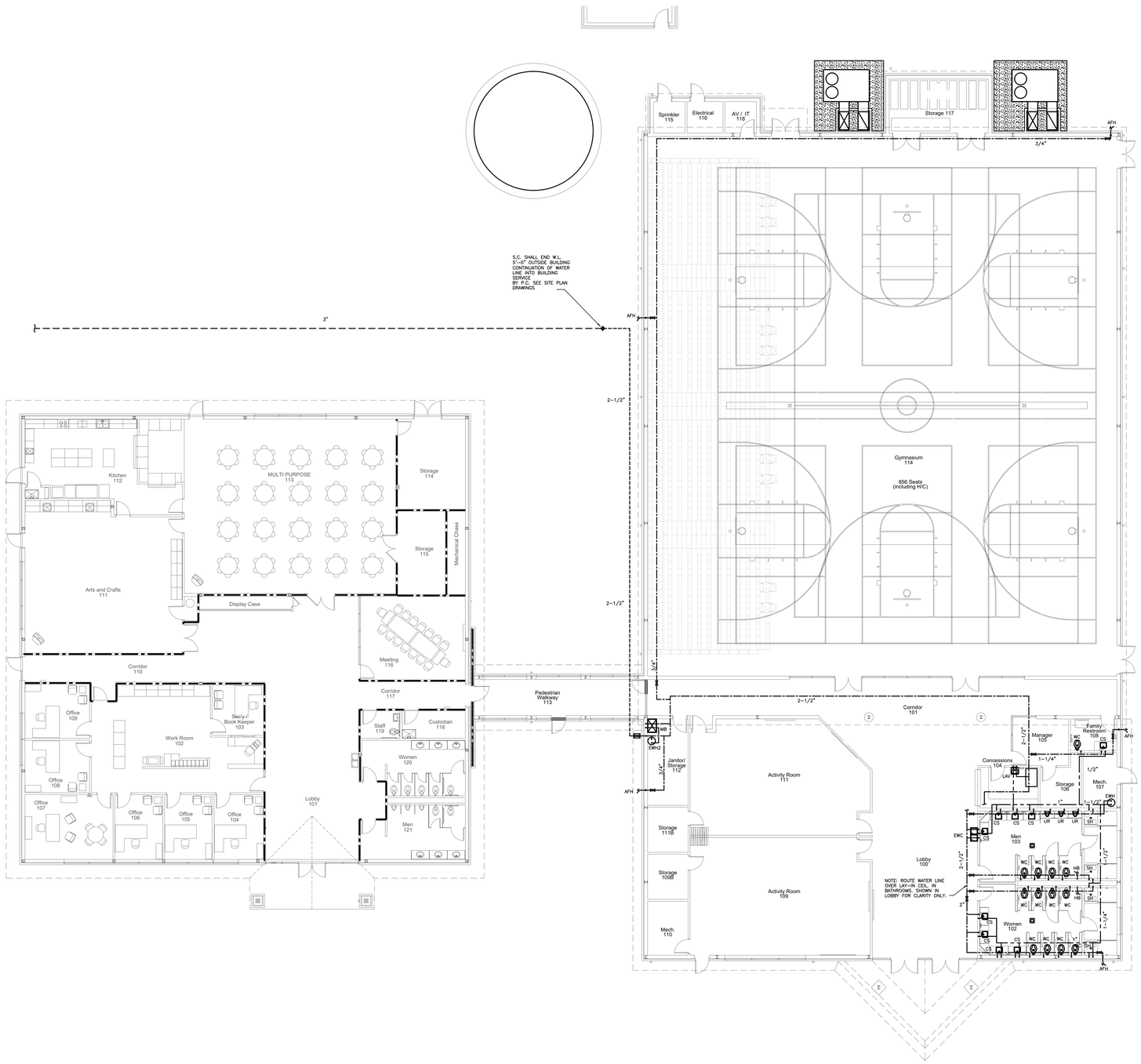

DOMESTIC WATER PLAN

SCALE: 3/32" = 1'-0"

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7/21/23

Project No.	22207
Date:	July 2023
Drawing no.	P 102

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MECHANICAL GENERAL NOTES:

1. ALL WORK SHALL BE IN STRICT ACCORDANCE WITH THE NC BUILDING CODE & CONTR. SHALL NOTIFY ENGINEER IN WRITING REGARDING ANY CODE DISCREPANCIES FOUND ON PLANS. CONTR. IS RESPONSIBLE FOR PERMITS, INSPECTIONS AND FEES.

2. SYSTEMS INDICATED ON PLANS ARE DIAGRAMMATIC IN NATURE. CONTRACTOR SHALL PROVIDE NECESSARY HANGERS, FASTENERS ETC. TO PROVIDE A COMPLETE AND WORKING SYSTEM.

3. CONTRACTOR SHALL SEAL ALL DUCTWORK WITH A PAINT ON MASTIC. ALL WALL PENETRATIONS SHALL BE SEALED AIR TIGHT.

4. CONTRACTOR SHALL FIELD MEASURE ACTUAL INSTALLED CONDITIONS AND COORDINATE DUCT SIZES PRIOR TO FABRICATION OR INSTALLATION OF EQUIP. & DUCTWORK.

5. CONTRACTOR SHALL COORDINATE ALL DUCTWORK, DIFFUSER AND GRILLE LOCATION WITH OTHER CEILING MOUNTED DEVICES SHOWN ON THE ARCHITECTURAL REFLECTED CEILING PLAN.

6. CONTRACTOR SHALL INSTALL BALANCING DAMPERS IN EACH BRANCH DUCT TO PROVIDE PROPER AIRFLOW TO EACH ZONE.

7. LOCATE THERMOSTATS AND TEMPERATURE SENSORS AT 4'-0" A.F.F. (CENTER OF BOX FOR GYP BRD, TOP OF BOX FOR MASONRY) IN LOCATION INDICATED ON PLANS.

8. ALL DUCT DIMENSIONS ARE INSIDE CLEAR DIMENSIONS.

9. CONTRACTOR SHALL COORDINATE ALL ROOF AND FLOOR PENETRATION LOCATIONS AND SIZES.

10. FABRICATE AND INSTALL ALL DUCT WORK PER SMACNA 1.5" W.C. PRESSURE. ALL ELBOWS SHALL HAVE 1.5R CENTERLINE. ALL DUCT UNDER SLAB SHALL BE FIBERGLASS.

11. ALL FLEXIBLE ROUND DUCT SHALL BE PRE-INSULATED DOUBLE WALLED WITH SPIRAL METAL RIB, AND SHALL HAVE MIN. RESISTANCE VALUE OF R-6. MAXIMUM LENGTH SHALL BE 10'-0" UNLESS SHOWN SPECIFICALLY OTHERWISE IN PLAN. SECURE ENDS WITH NYLON BANDS AND TAPE.

12. ALL SUPPLY AND RETURN DUCT SHALL BE INSULATED WITH A MINIMUM OF 2-3/16" ¾ LB. OR 2" OF 1.0 LB. DENSITY FIBERGLASS WRAP. PIPING INSULATION (REFRIGERANT OR WATER) SHALL BE A MINIMUM OF 1-1/2" THICK OR PER LATEST NC ENERGY CODE, WHICHEVER IS GREATER.

13. MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALUMINUM JACKET PROTECTIVE COVERING FOR ALL REFRIGERANT PIPE INSULATION INSTALLED ON THE BUILDING EXTERIOR.

14. PROVIDE FLEXIBLE CONNECTORS ON SUPPLY AND RETURN CONNECTIONS TO HVAC UNITS.

15. PROVIDE AUXILIARY CONDENSATE DRAIN PAN FOR ALL AIR HANDLING UNITS, FAN COIL UNITS, FURNACE WITH COOLING COIL, ETC. CONTRACTOR SHALL PROVIDE AND INSTALL WATER LEVEL FLOAT SWITCH IN AUXILIARY DRAIN PAN. FLOAT SWITCH SHALL SHUT DOWN INDOOR AND ASSOCIATED OUTDOOR UNIT WHEN ACTIVATED. DRAIN PAN OUTLET SHALL BE PIPED TO BUILDING EXTERIOR.

16. CONDENSATE PIPE SHALL BE SCHEDULE 40 PVC OR HARD DRAWN COPPER. INSTALL WITH PROPER SLOPE AND NO SAGS. COPPER PIPE SHALL BE INSULATED WITH 1/2" THICK CLOSED CELL INSULATION. SCHEDULE 40 PVC PIPE SHALL BE INSULATED WITH 1/2" THICK CLOSED CELL INSULATION.

17. ALL DUCTWORK AND PIPING SHALL BE CONCEALED ABOVE CEILINGS, TRUSSES AND SOFFITS EXCEPT IN MECHANICAL ROOMS, UTILITY PLATFORMS AND WHERE NOTED OTHERWISE.

18. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONTROL WIRING & CONNECTIONS TO HIS EQUIPMENT. COOR'D. FEEDER AND FUSE SIZES FOR SPECIFIC EQUIPMENT PROVIDED WITH ELECTRICIAN. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ANY ADDITIONAL WORK AND EQUIPMENT REQUIRED TO PROVIDE FEEDERS FOR EQUIPMENT THAT EXCEEDS THE AMP RATINGS LISTED IN THE SCHEDULE.

19. ALL GAS PIPE AS SHOWN (INTERIOR OR EXTERIOR) SHALL BE SCHEDULE 40 BLACK STEEL PAINTED OSHA YELLOW OR YELLOW FLEXIBLE STAINLESS STEEL. ALL GAS PIPING SHALL BE LABELED WITH THE TYPE OF GAS AND THE SUPPLY PRESSURE. CONTRACTOR SHALL INSTALL GAS PIPE PER INSTALLATION STANDARD MSS SP-58. M.C. SHALL PROVIDE MAPA PRODUCTS PIPE SUPPORTS WITH E-6000 ADHESIVE.

20. MECHANICAL CONTRACTOR MAY USE ROUND DUCT OF EQUIV. AREA IN LIEU OF RECTANGULAR. COOR'D. ROUND DUCT SIZES W/ ENGR. USE INSULATED DOUBLE WALLED SPIRAL DUCT WITH PAINT GRIP FINISH WHERE DUCT IS TO BE EXPOSED.

21. MECHANICAL CONTRACTOR SHALL PROVIDE ENGR. WITH AN AIR BALANCE REPORT INDICATING INITIAL AND FINAL READINGS AT EACH DIFFUSER AND TOTAL CFM PER UNIT, INCLUDE IN DOCUMENTS PROVIDED TO OWNER AT JOB CLOSEOUT.

22. MECHANICAL CONTRACTOR SHALL LABEL ALL EQUIPMENT WITH ENGRAVED PLASTIC LAMINATE, SCREWED TO PIECE OF EQUIPMENT.

23. CONVENTIONAL FURNACES SHALL HAVE TYPE B VENTS, CONDENSING TYPE SHALL HAVE PVC VENTS.

24. MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL CO & NO SENSOR FOR ALL GAS FIRED EQUIPMENT.

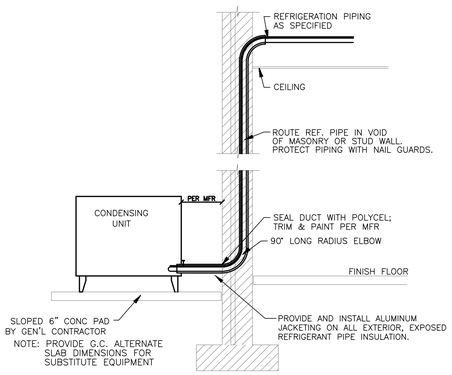
25. UNIT CONTROLLER OR PROGRAMMABLE THERMOSTAT SHALL HAVE 7 DAY PROGRAMING, TIMED OVER-RIDE AND THE ABILITY TO RUN FANS IN OCCUP. MODE & CYCLE FANS IN UN-OCCUP. MODE.

26. MECHANICAL CONTRACTOR SHALL CHANGE UNIT FILTERS AFTER EACH TWO WEEKS OF RUN TIME, AND SHALL LEAVE ONE CHANGE OF FILTERS FOR OWNER TO USE FOR NEXT FILTER CHANGE.

27. MECHANICAL CONTRACTOR SHALL NOT ALLOW DUCTWORK TO CONTACT LAY-IN LIGHT FIXTURES. ROUTE ACCORDINGLY.

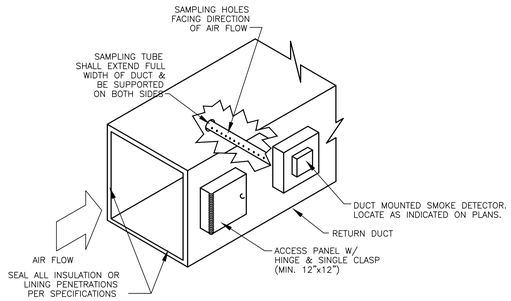
28. MECHANICAL CONTRACTOR SHALL INSTALL DUCT MOUNTED SMOKE DETECTORS WHERE INDICATED ON PLANS. COORDINATE WITH E.C. IF DUCT DETECTOR IS PROVIDED AS PART OF BUILDING FIRE ALARM SYSTEM. IF NOT, PROVIDE DETECTOR & ASSOCIATED HORN/STROBE ALARM (HONEYWELL RTS2-AOS MULTI-SIGNALING) AS REQUIRED BY N.C. MECHANICAL CODE SECTION 606.4.1. M.C. IS RESPONSIBLE FOR DUCT ACCESS DOORS UNDER ALL CIRCUMSTANCES.

29. PROVIDE HEAT PUMP WITH CONTROLS TO PREVENT HEAT STRIP FROM OPERATING WHEN OUTSIDE AIR TEMP. IS ABOVE 40°F. (C403.2.4.1.1 NCEC)



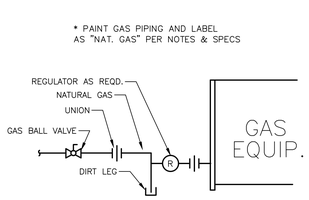
CONDENSING UNIT INSTALLATION DETAIL

SCALE: NTS



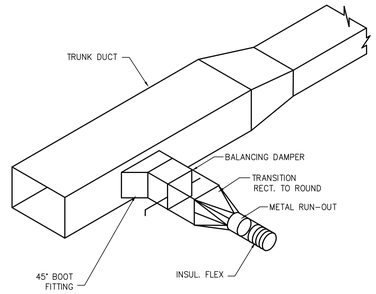
DUCT MOUNTED SMOKE DETECTOR DETAIL

SCALE: N.T.S.



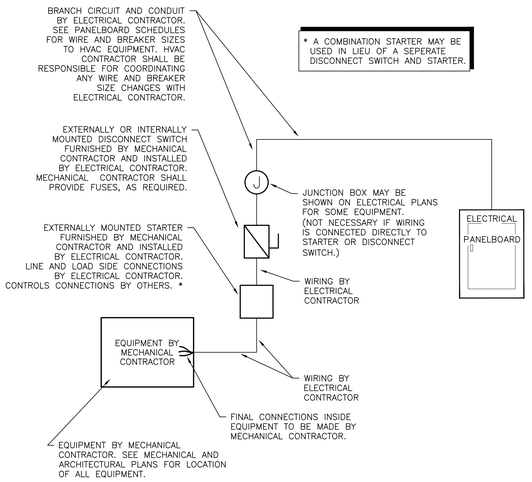
GAS PIPING SCHEMATIC

SCALE: NTS



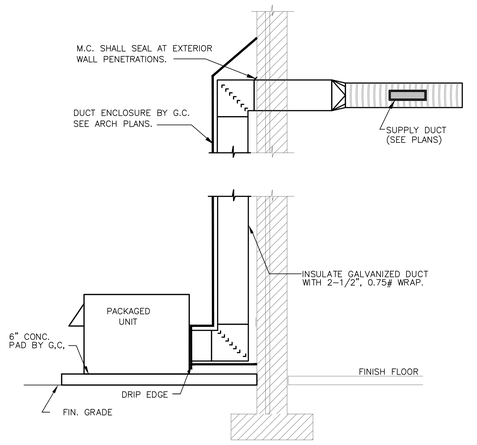
LOW PRESSURE BRANCH CONNECTION

SCALE: NTS



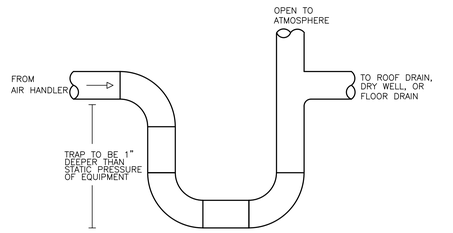
MECHANICAL EQUIPMENT ELECTRICAL CONNECTION DETAIL

SCALE: N.T.S.



PACKAGED UNIT INSTALLATION DETAIL

SCALE: SCALE



CONDENSATE TRAP DETAIL

SCALE: NTS

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

METHOD OF COMPLIANCE:

PRESCRIPTIVE ☒ ENERGY COST BUDGET ☐

CLIMATE ZONE: IBC – 3A

THERMAL ZONE
- WINTER DRY BULB: 18°F
- SUMMER DRY BULB: 93°F

INTERIOR DESIGN CONDITIONS
- WINTER DRY BULB: 70°F
- SUMMER DRY BULB: 75°F
- RELATIVE HUMIDITY: 50%

BUILDING HEATING LOAD: 705.6 MBH

BUILDING COOLING LOAD: 1,008.0 MBH

MECHANICAL SPACE CONDITIONING SYSTEM
- UNITARY
  - DESCRIPTION OF UNIT: SPLIT-SYSTEM HEAT PUMP/ GAS PACK
  - HEATING EFFICIENCY: 3.0 COP
  - COOLING EFFICIENCY: 14.0 SEER
  - HEAT OUTPUT OF UNIT: SEE SCHEDULE
  - COOLING OUTPUT OF UNIT: SEE SCHEDULE
- BOILER
  - TOTAL BOILER OUTPUT: (If oversized, state reason)
- CHILLER
  - TOTAL CHILLER OUTPUT: (If oversized, state reason)

LIST EQUIPMENT EFFICIENCIES

EQUIPMENT SCHEDULES WITH MOTORS (Not used for mechanical systems)
- MOTOR HORSEPOWER:
- NUMBER OF PHASES:
- MINIMUM EFFICIENCY:
- MOTOR TYPE:
- # OF POLES:

DESIGNER STATEMENT:

To the best of my knowledge and belief, the design of this building complies with the mechanical systems, service systems and equipment requirements of the 2018 North Carolina energy conservation code.

SIGNED: D. Wilson Pou

NAME: D. WILSON POU, P.E.

TITLE: PRESIDENT

GAS PACK SCHEDULE

	O.A.		SUPPLY FAN						COOLING			HEATING					
MARK	MIN.	MAX.	CFM	EXT SP.	MOTOR HP	VOLT/PH	MCA	MOCP	MIN. TC(MBH)	MIN. SHC(MBH)	EER	FUEL	MAX MBH INPUT	MIN MBH OUTPUT	STAGES OF HEAT	AFUE%	REMARKS
GP-1	900	2,500	9,000	0.75	7.5	208/3	124.0	150	295.3	234.2	10.6	NATURAL	250.0	203.0	2	81%	1,2,3,4,5

1. PROVIDE WITH COIL GUARD OPTION & "LOW-AMBIENT" KIT.
2. ANY WIRING SHALL BE DONE BY A LICENSED ELECTRICAL SUB-CONTRACTOR.
3. PROVIDE WITH CONTROL TRANS. AS REQUIRED.
4. PROVIDE WITH PROG. TSTAT WITH 2 HOUR OVER-RIDE.
5. PROVIDE UNITS GP-1 AND GP-2 WITH CO2 SENSOR.

FAN SCHEDULE

SYMBOL	AREA SERVED	MANUF./MODEL	SERVICE	TYPE ASSEMBLY	CFM	SP (IN. W.G.)	DRIVE TYPE	WATTS	VOLT/PH	REMARKS
EF-A	REST ROOM	GREENHECK/SP-A110	EXHAUST	CABINET	75	.125	DIRECT	48.7	120/1	1,2,3
EF-B	REST ROOM	GREENHECK/SP-A250	EXHAUST	CABINET	225	.125	DIRECT	83.1	120/1	1,2,4
EF-C	REST ROOM	GREENHECK/SP-A510	EXHAUST	CABINET	450	.125	DIRECT	224	120/1	1,2,5

1. BACKDRAFT DAMPER.
2. UNIT MOUNTED DISCONNECT SWITCH.
3. ROUTE 6"ø DUCT TO EXTERIOR WALL, PROVIDE WITH WALL CAP.
4. ROUTE 10"ø DUCT TO EXTERIOR WALL, PROVIDE WITH WALL CAP.
5. ROUTE 12"ø DUCT TO EXTERIOR WALL, PROVIDE WITH WALL CAP.

DUCTLESS SPLIT-SYSTEM SCHEDULE

SUPPLY FAN						HEAT PUMP						COOLING	HEATING	
												MAX.	MAX.	EFFICIENCY
MARK	CFM	MANUF./MODEL	VOLT/PH	MCA	MOCP	MARK	MANUF./MODEL	VOLT/PH	MCA	MOCP		TC (BTUH)	TC (BTUH)	SEER
DS-1	455	MITSUBISHI/ PKA-A12LA	208/1	1.0	15	DHP-1	MITSUBISHI/ PUZ-A12NKA7	208/1	11.0	28		12,000	18,000	21.0
DS-2	530	MITSUBISHI/ PLA-A12EA7	208/1	1.0	15	DHP-2	MITSUBISHI/ PUY-A12NKA7	208/1	11.0	28		12,000	18,000	21.0

1. HEATING AND COOLING CAPACITIES ARE MINIMUM ACCEPTABLE VALUES
2. PROVIDE WITH FILTERS AND FILTER FRAMES.
3. PROVIDE WITH SINGLE POINT OF CONNECTION KIT & "LOW-AMBIENT" KIT.
4. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH E.C. FUSES REQUIRED FOR EQUIPMENT PURCHASED.
5. AMP RATINGS GIVEN ARE MAXIMUM VALUES.
6. ESP INCLUDES .35" FOR DIRTY FILTER ALLOWANCE.

SPLIT-SYSTEM HEAT PUMP SCHEDULE

	SUPPLY FAN								COOLING						HEATING
MARK	OA	CFM	ESP (IN. W.G.)	FAN HP	VOLT/PH	MCA	MOCP	STRIP KW @ 208V	MARK	VOLT/PH	MCA	MOCP	NOM. TC (BTUH)	NOM. SC (BTUH)	SEER/ EER	MIN. BTUH
AHU-1	250	1,600	.50	1/2	208/3	28.0	30	7.2	HP-1	208/3	18.0	30	48,000	33,600	14.0	24,600
AHU-2	275	1,600	.50	1/2	208/3	28.0	30	7.2	HP-2	208/3	18.0	30	48,000	33,600	14.0	24,600
AHU-3	1,000	4,000	.50	2.0	208/3	49.0	50	10.8	HP-3	208/3	42.0	50	120,000	84,000	12.6 EER	85,051
AHU-4	300	2,000	.50	1.0	208/3	46.0	50	10.8	HP-4	208/3	21.0	35	60,000	42,000	14.0	36,900
AHU-5	225	1,600	.50	1/2	208/3	28.0	30	7.2	HP-5	208/3	18.0	30	48,000	33,600	14.0	24,600
AHU-6	200	1,400	.50	1/2	208/3	28.0	30	7.2	HP-6	208/3	18.0	30	42,000	29,400	14.0	24,600
AHU-7	200	1,400	.50	1/2	208/3	28.0	30	7.2	HP-7	208/3	18.0	30	42,000	29,400	14.0	24,600

1. HEATING AND COOLING CAPACITIES ARE MINIMUM ACCEPTABLE VALUES
2. PROVIDE WITH FILTERS AND FILTER FRAMES.
3. PROVIDE WITH SINGLE POINT OF CONNECTION KIT.
4. "TRANE" AND "LENNOX" EQUIPMENT ACCEPTABLE.
5. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH E.C. FUSES REQUIRED FOR EQUIPMENT PURCHASED.
6. AMP RATINGS GIVEN ARE MAXIMUM VALUES.
7. ESP INCLUDES .35" FOR DIRTY FILTER ALLOWANCE.
8. PROVIDE AHU-3/HP-3 AS SINGLE ZONE VAV, DUAL CIRCUIT, & DUAL COMPRESSORS.

LOUVER SCHEDULE

MARK	SIZE	MANUF.	PD	SERVICE	CFM	MODEL NUMBER
L-A	60X72	RUSKIN	.05	INTAKE	8,100	ELF81S30

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ES Project No: ES22044
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COMMUNITY CENTER AND GYMNASIUM FOR

Alice F. Keene District Park

4561 County Home Road, Greenville, NC 27858

Project No. 22207

Date: July 2023

Drawing no. M 001

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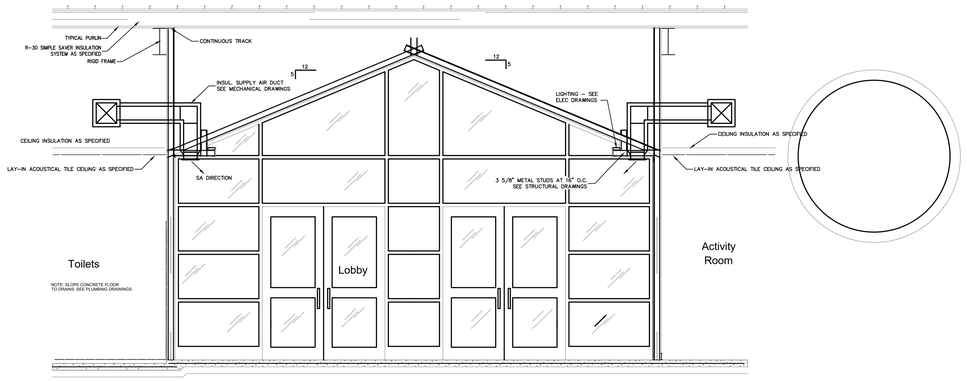
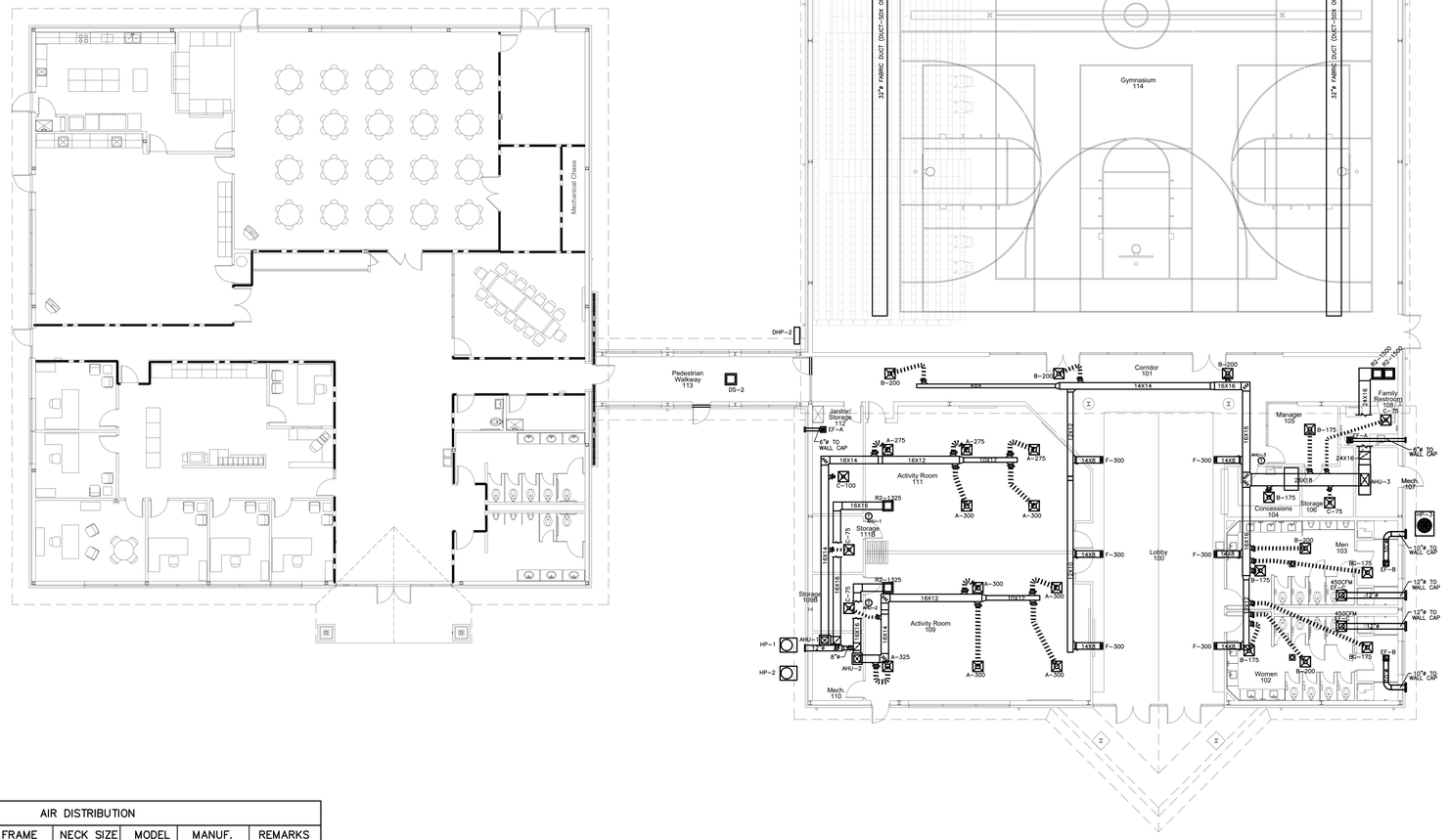


SECTION AT LOBBY
SCALE: NO SCALE



MECHANICAL PLAN (BASE BID)
SCALE: 3/32" = 1'-0"

GAS SIZING CALCULATIONS

EQUIPMENT LIST	MBH	QUANTITY	TOTAL MBH
GP-1,2	250	2	500
TOTAL CONNECTED =			**500**
LENGTH OF GAS LINE = 100 FT.			
GAS PRESSURE = 2 PSI			
SIZE OF GAS SERVICE REQUIRED = 3/4"			

NOTE: ENGINEER SHALL BE NOTIFIED PRIOR TO INSTALLATION OF GAS PIPE IF ANY ONE OF THE ABOVE CALCULATIONS DIFFER FROM THE ACTUAL INSTALLATION REQUIREMENTS. ENGINEER SHALL HAVE OPPORTUNITY TO REVIEW ACTUAL INSTALLATION CONDITIONS AND RE-SIZE GAS SERVICE IF REQUIRED.

AIR DISTRIBUTION

MARK	MAX. CFM	FRAME	NECK SIZE	MODEL	MANUF.	REMARKS
A	400	T-BAR	10"ø	SMD	PRICE	1,2,3,5,7
B	200	T-BAR	8"ø	SMD	PRICE	1,2,3,5,7
C	100	T-BAR	6"ø	SMD	PRICE	1,2,3,5,7
D	100	T-BAR	12X12 6"ø	SMD	PRICE	2,3,5,7
F	350	SIDEWALL	14X8	630DAL	PRICE	2,3,5,7
R1	550	T-BAR	12x12	80TB	PRICE	1,2,4,5,6
R2	1400	T-BAR	22x22	80TB	PRICE	1,2,4,5,6

1. ALL T-BAR GRILLES SHALL HAVE 24"x24" FACE.
2. NC SHALL NOT EXCEED NC 25.
3. MAX. SP SUPPLY - 0.10" W.G.
4. MAX. SP RETURN - 0.05" W.G.
5. ALL RUN-OUTS AND FLEX TO BE EQUAL TO NECK SIZE FOR GRILLE.
6. PAINT INSIDE PAN FLAT BLACK.
7. CONTRACTOR SHALL INSULATE BACK OF SUPPLY GRILLE PAN.

NCBC VENTILATION CALCULATIONS

OCCUPANCY TYPE	SQ. FT	O.A. PER SQ. FT.	# OF OCCUPANTS	O.A. PER PERSON	TOTAL O.A. CFM
CLASSROOM	5,413	0.12	190	7.5	2,075
LOBBY	1,300	0.06	40	7.5	378
GYM	4,700	0.30	450	7.5	4,785
TOTAL REQUIRED FOR BUILDING					7,238
TOTAL PROVIDED FOR BUILDING					7,450

WALL UNIT HEATER SCHEDULE

MARK	HEAT	POWER	AMP DRAW	ENTERING CFM	MANUF./ MODEL	NOTES
WH-A	562W	208/1	2.7	70	MARKEL HF44757ZRP	1

NOTES:
1) PROVIDE MFR'S DISCONNECT AND LOW VOLTAGE THERMOSTAT .

MECHANICAL LEGEND

G.C.	GEN. CONTR.
E.C.	ELEC. CONTR.
P.C.	PLUMB. CONTR.
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
18x16	WRAPPED RIGID DUCT
	INSULATED FLEXIBLE DUCT
	SUPPLY DIFFUSER
	RETURN AIR GRILLE
	CEILING EXHAUST GRILLE OR FAN
T AHU-1	THERMOSTAT & UNIT SERVED.
H AHU-1	HUMIDISTAT & UNIT SERVED.
A-400	DIFFUSER TYPE-CFM
	MANUAL DAMPER
SD	DUCT MOUNTED SMOKE DETECTOR
SD	CEILING MOUNTED SMOKE DETECTOR
	FIRE ALARM HORN/STROBE (SEE GENERAL NOTES)
	CONN. TO EXIST.
G	GAS PIPING
FD	SPRING LOADED FIRE DAMPER
C AHU-1	CO2 SENSOR (800 PPM) & UNIT SERVED.
$T	TWIST TIMER SWITCH
M	120V MOTORIZED DAMPER
CN AHU-1	CO & NO SENSOR & UNIT SERVED. CONSPEC CN50-CON02

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No.	Date	Revision

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COMMUNITY CENTER AND GYMNASIUM FOR
Alice F. Keene District Park
4561 County Home Road, Greenville, NC 27858

HITE ASSOCIATES, P.C. REGISTERED CORPORATION SEAL 4118 GREENVILLE, N.C.

ES Project No: ES22044
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Voice (252) 439-0339 * Fax (252) 439-0482 * Firm #C-1817
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 036791 DAVID W. WILSON, JR. 7/21/23

Project No. 22207
Date: July 2023
Drawing no. M 101

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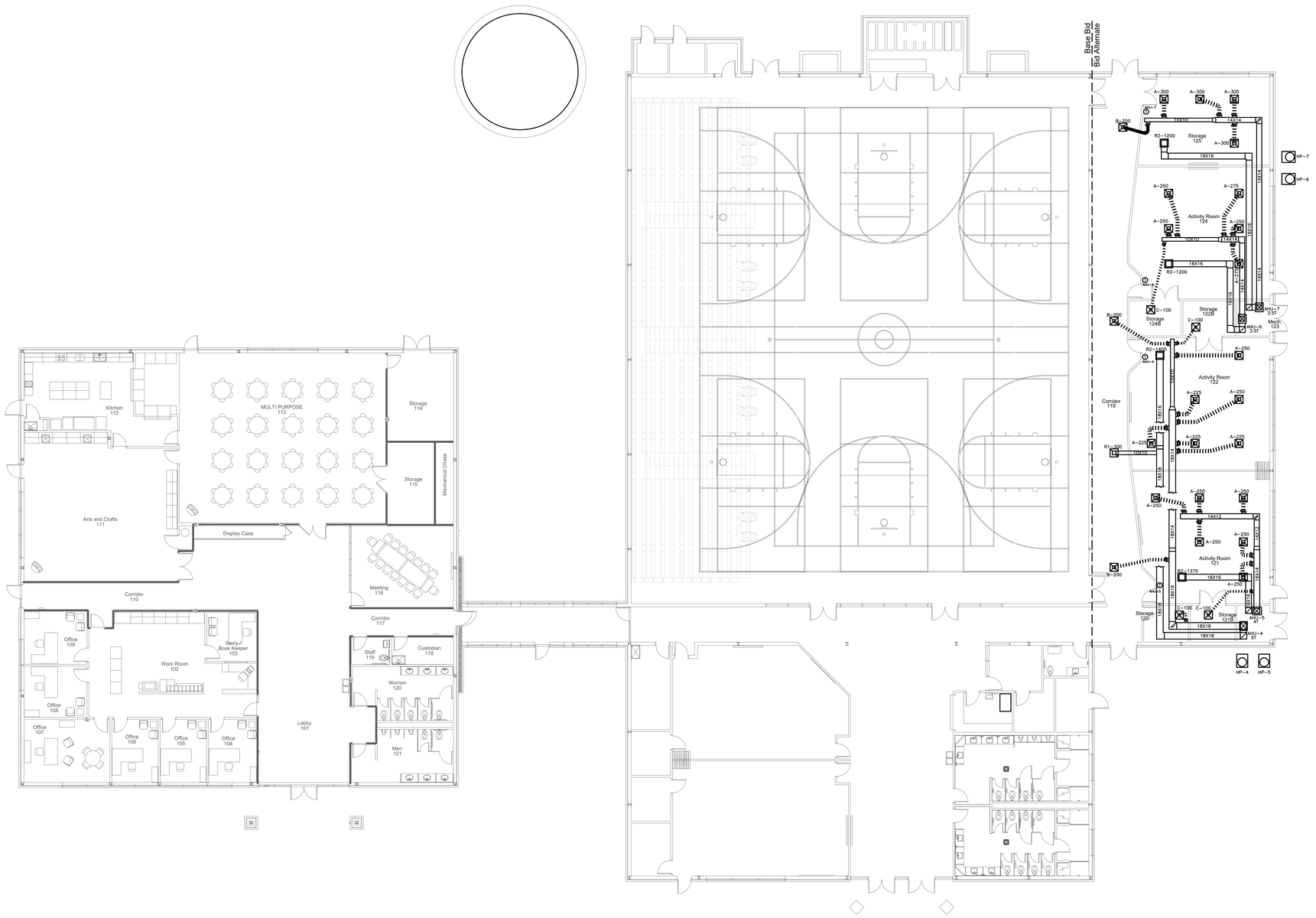

MECHANICAL PLAN (ALTERNATE BID)
SCALE: 3/32" = 1'-0"

No.	Date	Revision

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ARCHITECTURE / PLANNING / TECHNOLOGY
2600 Meridian Drive / Greenville, NC 27834 / tel (252) 757-0333

COMMUNITY CENTER AND GYMNASIUM FOR
Alice F. Keene District Park
4561 County Home Road, Greenville, NC 27858

HITE ASSOCIATES, P.C.
REGISTERED ARCHITECTURAL CORPORATION
GREENVILLE, N.C.
CERTIFICATE NUMBER
418

Project No.	22207
Date:	July 2023
Drawing no.	M 101A

ENGINEERING SOURCE of NC, P.A.
102-A2 Regency Blvd. Greenville, NC 27834
E-Mail Address: generalmail@engrsource.com
Voice (252) 439-0338 * Fax (252) 439-0482 * Firm (C-1873
Project No: ES22044

SEAL 030777 ENGINEER D. WILSON POU
7/21/23

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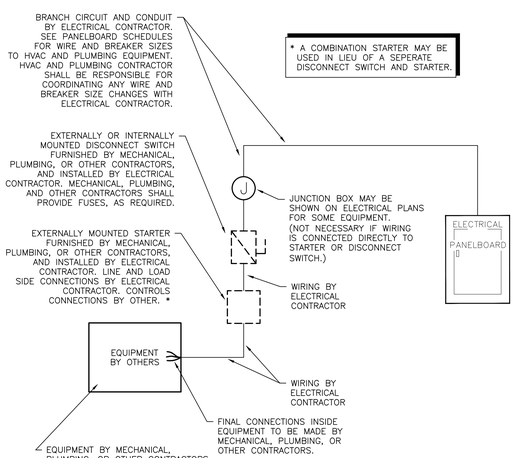


ELECTRICAL CONNECTION DETAIL
SCALE: N.T.S.

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

METHOD OF COMPLIANCE:

ENERGY CODE: PRESCRIPTIVE ☒ PERFORMANCE ☐
ASHRAE 90.1: PRESCRIPTIVE ☐ PERFORMANCE ☐

LIGHTING SCHEDULE

LAMP TYPE REQUIRED IN FIXTURE: VARIES (SEE LIGHT FIXTURE SCHEDULE THIS DRAWING)
NUMBER OF LAMPS IN FIXTURE: VARIES (SEE LIGHT FIXTURE SCHEDULE THIS DRAWING)
BALLAST TYPE IN FIXTURE: VARIES (SEE LIGHT FIXTURE SCHEDULE THIS DRAWING)
NUMBER OF BALLASTS IN FIXTURE: VARIES (SEE LIGHT FIXTURE SCHEDULE THIS DRAWING)
TOTAL WATTAGE PER FIXTURE: VARIES (SEE LIGHT FIXTURE SCHEDULE THIS DRAWING)

TOTAL INTERIOR WATTAGE SPECIFIED .VS. ALLOWED: **17,600W VS. 21,457W**
EXTERIOR LIGHTING ZONE: **3**
EXTERIOR LIGHTING WATTAGE SPECIFIED .VS. ALLOWED: **800W VS. 1,350W**

ADDITIONAL PRESCRIPTIVE COMPLIANCE

- ☐ C406.2 More Efficient HVAC Equipment Performance
- ☒ C406.3 Reduced Lighting Power Density
- ☐ C406.4 Enhanced Digital Lighting Controls
- ☐ C406.5 On-Site Renewable Energy
- ☐ C406.6 Dedicated Outdoor Air System
- ☐ C406.7 Reduced Energy Use in Service Water Heating

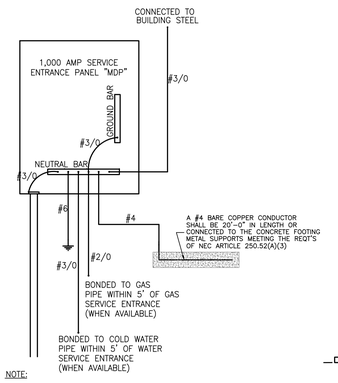
DESIGNER STATEMENT:

To the best of my knowledge and belief, the design of this building complies with the electrical system and equipment requirements of the North Carolina Building Code, Energy Conservation Code.

SIGNED: D. Wilson Pou

NAME: D. WILSON POU, P.E.

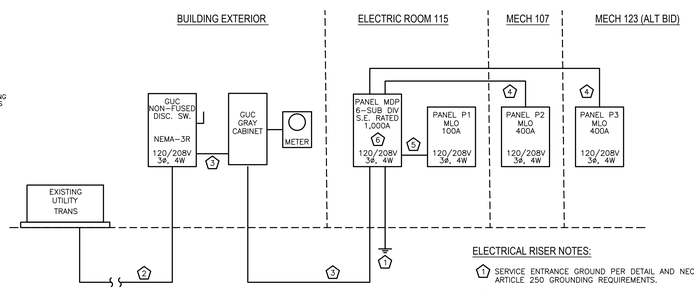
TITLE: PROFESSIONAL ENGINEER



NOTE:

1. THIS DRAWING ONLY SHOWS GROUNDING ELECTRODE CONDUCTORS AND BONDING JUMPERS. ALL CONDUITS SHALL ALSO HAVE EQUIPMENT GROUNDING CONDUCTORS SIZED PER NEC AND DRAWINGS.
2. BONDING OF GAS PIPE IS TO EQUALIZE POTENTIAL OF GAS PIPE ONLY, AS REQ'D BY N.E.C. & VOLUME VI OF NCBC.

1,000A SERVICE ENTR GROUNDING DETAIL
SCALE: N.T.S.



ELECTRICAL RISER DIAGRAM
SCALE: N.T.S.

ELECTRICAL RISER NOTES:

1. SERVICE ENTRANCE GROUND PER DETAIL AND NEC ARTICLE 250 GROUNDING REQUIREMENTS.
2. 5" DIRECTIONAL BORE UTILITY SERVICE BY GUC. APPROX. 200'-0". APPLY TO UTILITY SERVICE ALLOWANCE. SEE ALLOWANCE SECTION OF SPECS.
3. (3 SETS) 4-#400 KCMIL IN 4"C
4. (2 SETS) 4-#3/0 & 1-#3G. IN 2"C
5. 4-#3 & 1-#8G. IN 1.5"C
6. PROVIDE PLAQUE WITH AIC & ARC FLASH INFORMATION PROVIDED BY GUC PER NEC REQT'S.

LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	LAMPS	VOLTS	WATTS	B.F.
A1	2'x4' LAY-IN LED FLAT PANEL WITH ACRYLIC LENS. PROVIDE WITH LOW LUMEN PACKAGE (3,000-4,000 LUMENS) AND DIMMING DRIVER. PROVIDE - COLUMBIA#: SRP24-40WHE-G-ESD-U LITHONIA#: FPANL-2X4-3000LM-80CRI-40K-MIN10-SLD-MVOLT OR WILLIAMS#: LP-24-L50-B-40-SD50-UNV	LED	MULTI	27W	–
A2	2'x4' LAY-IN LED FLAT PANEL WITH ACRYLIC LENS. PROVIDE WITH MEDIUM LUMEN PACKAGE (4,600-5,600 LUMENS) AND STEP DIMMING DRIVER. PROVIDE - COLUMBIA#: SRP24-40ML-G-ESD-U LITHONIA#: FPANL-2X4-4800LM-80CRI-40K-MIN10-SLD-MVOLT OR WILLIAMS#: LP-24-L50-B-40-SD50-UNV	LED	MULTI	45W	–
B BE	6" RECESSED LED FIXTURE, MEDIUM CUTOFF ANGLE. 4500 LUMENS, DIMMING DRIVER. PROVIDE - PRESCOLITE#: LTR-6RD-30L-40K-WD-S-DM1-UNV LITHONIA#: LDNS-40-L06-AR-LSS-MVOLT-GZ10 OR WILLIAMS#: 6DR-TL-L40-B-40-DIM1-UNV-O-W-CS SAME AS "B" FIXTURE ABOVE. "E" INDICATES THAT THE FIXTURE HAS BATTERY BACK-UP FOR EMERGENCY EGRESS OPERATION.	LED	MULTI	45W	–
C	8' ASYMMETRIC THROW LINEAR LED INDIRECT SOFFIT LIGHT, 1,000 LUMENS/LF, DIMMING DRIVER, CLEAR LENS. (48FT RUN) PROVIDE: EF ILLUMINATION#: EN6C-12F-8040-PL-D2-096-UNV-W LITHONIA#: WILLIAMS#:	LED	MULTI	12W/LF	–
G GE	ROUND ARENA STYLE LED LIGHT FIXTURE WITH ALUMINUM HOUSING AND MEDIUM DISTRIBUTION. PROVIDE WITH DIMMING DRIVER AND WIRE GUARD. PROVIDE: TOPAZ #: FLUB-300W-50-UNV-WG OR DAY-BRITE#: HCY-2833-80/50-UNV-WG OR RAB #: H17-XL-50-W-UNV-WG SAME AS "G" FIXTURE ABOVE. "E" INDICATES THAT 1/3 OF THE LEDS IN THE FIXTURE HAVE BATTERY BACK-UP FOR EMERGENCY EGRESS OPERATION.	LED	UNV	300W	–
S	4' LOW PROFILE LED LIGHT FIXTURE WITH MEDIUM LUMEN OUTPUT (3,500-4,000 LUMENS) AND FROSTED ACRYLIC LENS. PROVIDE COLUMBIA #: MPS-4-40-LW-F-N-E-U OR WILLIAMS #: 7SS-4-L30-80-40-DIM-U OR LITHONIA #: ZLN1-L48-3000LM-FST-MVOLT-40K-80CRI-WH	LED	MULTI	20W	–
SH	LED SHOWER UL LISTED DOWNLIGHT. PROVIDE LITHONIA #: EVDSW WAC LIGHTING – OCULUX LIGHTOLIER – LYTEPROFILE	LED	UNIV	30W	–
WA	EXTERIOR LED WALL PACK WITH HEAVY DUTY TWO PIECE, DIE-CAST ALUMINUM HOUSING WITH CLEAR PRISMATIC BOROSILICATE GLASS LENS. LARGE SIZE AND UL LISTED FOR WET LOCATIONS. PROVIDE DECO #: D404-LED-80-40-UNV-BZ-FC-PC OR LITHONIA #: TWR2-LED-1-50K-MVOLT-DDB OR MAXLITE #: MLWP6GLED50PC27-150	LED	UNV	80W	–
OR	CEILING OR WALL MOUNTED LED EXIT LIGHT CONFORMING TO NFPA 101 STANDARDS, w/ BATTERY & SOLID STATE CHARGER, SELF DIAGNOSTICS w/ A TEST CYCLE EVERY 30 DAYS MINIMUM, SELF-CONTAINED, DOUBLE OR SINGLE WHITE FACE/BODY, ABS THERMOPLASTIC HOUSING, PILOT & STATUS INDICATING LIGHTS, TEST SWITCH, & 90 MIN. EMERGENCY RUN TIME. EXIT SIGN SHALL HAVE 5 YEAR WARRANTY. PROVIDE HUBBELL #: CER5O OR WILLIAMS #: EXIT-R-EM-WHT-SDT OR LITHONIA #: ELM-S-W-3-R-120/277-ELN-SD	RED LED	120/ 6V	3.5W	N/A
	AUTOMATIC, SELF-CONTAINED, SELF DIAGNOSTIC, MAINTENANCE FREE 2-HEAD EMERGENCY LIGHT. UL 924 LISTED AND NFPA 101 COMPLIANT, ABS THERMOPLASTIC HOUSING, PILOT & STATUS INDICATING LIGHTS. SELF DIAGNOSTICS SHALL INCLUDE CONTINUOS SELF CHECKS AND 30 MINUTE FULL LOAD TEST WITH CHARGER OFF EVERY 30 DAYS. PROVIDE HUBBELL #: CU2SO OR WILLIAMS #: EMCR/LED-WHT-HL-SDT OR LITHONIA #: EU2-LED-M12	2–10W	120/ 6V	20W	N/A
	CEILING OR WALL MOUNTED LED EXIT & 2-HEAD EMERGENCY LIGHT CONFORMING TO NFPA 101 STANDARDS, w/ BATTERY & SOLID STATE CHARGER, SELF DIAGNOSTICS w/ A TEST CYCLE EVERY 30 DAYS MINIMUM, SELF-CONTAINED, DOUBLE OR SINGLE WHITE FACE/BODY, ABS THERMOPLASTIC HOUSING, PILOT & STATUS INDICATING LIGHTS, TEST SWITCH, & 90 MIN. EMERGENCY RUN TIME. EXIT LIGHT SHALL CONTINUE TO OPERATE FOR 24 HOURS FOLLOWING POWER OUTAGE. EXIT SIGN SHALL HAVE 5 YEAR WARRANTY. PROVIDE HUBBELL #: CERSD OR LITHONIA #: LHQM-LED-R-HO-SD OR WILLIAMS #: EXIT/EM/LED-SF-R-WHT-HL-SDT	2–10W HALOGEN	120/ 6V	20	N/A
	WALL MOUNTED SCONCE LIGHT WITH PREMIUM MARINE GRADE DIE-CAST ALUMINUM HOUSING AND POLYCARBONATE GASKETED LENS TO WITHSTAND EXTREME WEATHER CONDITIONS. MOUNT ABOVE EXTERIOR DOOR. EMERGENCY LIGHT SHALL CONFORM WITH NFPA 101 STANDARDS AND NEC–700.16. PROVIDE HUBBELL #: CUWZ-PC OR WILLIAMS #: EMER/DECO-DBR-LT OR LITHONIA #: AFN-DB-EXT	2–6W	120/ 6V	12W	–

ELECTRICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION
	DUPLEX CONVENIENCE OUTLETS FOR GENERAL USE SHALL BE RATED 20 AMPERES, 125 VOLTS, DUPLEX, FOR STANDARD PARALLEL BLADE THREE-WIRE GROUNDED TYPE CAPS, HUBBELL NO. 5362 (BROWN) OR 5362-I (IVORY), OR EQUAL.
	QUADRUPLEX OUTLET AS SPECIFIED
	240V OUTLET – AMPERAGE PER CIRCUIT BREAKER FED FROM
GFI	DUPLEX OUTLET – GFI AS SPECIFIED
WP/GFI	DUPLEX OUTLET – GFI – EXTERIOR WATERPROOF AS SPECIFIED
HORIZ	DUPLEX OUTLET – INSTALL HORIZONTALLY
TP	TAMPER PROOF DUPLEX OUTLET EQUAL TO HUBBELL No. 5362
TVSS	DUPLEX w/ TRANSIENT VOLTAGE SURGE SUPPRESSION w/ LIGHT (NEMA 5–15), EQUAL TO HUBBELL No. 5260
IG	NEMA 5–20R ISOLATED GROUND RECEPTACLE
	WATERTIGHT TWISTLOCK RECEPTACLE IN KITCHEN UTILITY DISTRIBUTION WALL
	DUAL COMPARTMENT ALUMINUM RACEWAY SYSTEM, WIREMOLD No. ALA4800 w/ TWIN COVER; COLOR SELECTED BY ARCHITECT (SEE PLANS FOR RECEPTACLE & DATA OUTLET QUANTITIES & LOCATIONS)
	RECEPTACLES MOUNTED IN STEEL CITY GAB SERIES AFM PRE SET FLOOR BOX. EACH BOX CONTAINS (6) DUPLEX RECEPTS (TYPICAL). SECURE SQUARE OF CARPET TO MATCH IN LID OF BOX (BY ELECT. CONTR., TYP)
	DATA OUTLETS MOUNTED IN STEEL CITY GAB SERIES AFM PRE SET FLOOR BOX. EACH BOX CONTAINS (4) DUAL DATA OUTLETS (TYPICAL). ROUTE (2) 1" C FROM EACH BOX BACK TO MDF ROOM. SECURE SQUARE OF CARPET TO MATCH IN LID OF BOX (BY ELECT. CONTR., TYP)
F, S, H	FIRE ALARM INITIATING DEVICES; SEE LEGEND SHEET E–004
	FIRE ALARM NOTIFICATION DEVICES; SEE LEGEND SHEET E–004
, , etc	VOICE/DATA DEVICES, SEE ICS LEGEND SHEETIC–101. E.C. RESPONSIBLE FOR ROUGH–IN AS INDICATED ON ELECTRICAL DRAWINGS
,	SECURITY DEVICES; SEE LEGEND THESE DWGS. E.C. RESPONSIBLE FOR ROUGH–IN AS INDICATED ON ELECTRICAL DRAWINGS
$	SINGLE POLE SWITCH – 48" A.F.F. U.O.N., 20 AMP, 120/277 VOLT, SPECIFICATION GRADE
$3, $4	3 OR 4–WAY SWITCH – 48" A.F.F. U.O.N., SPECIFICATION GRADE, SEE SPECIFICATION SECTION 16140
$K	KEY–OPERATED SWITCH – 48" A.F.F. U.O.N.
$	DIMMER SWITCH RATED FOR LOAD – 48" A.F.F., LUTRON No. MAR OR APPROVED EQUAL
$DP	DOUBLE POLE SINGLE THROW SWITCH – 48" A.F.F.
	MASTER / SATELLITE OR SPLIT BALLAST WIRING – SEE DETAILS THESE DRAWINGS
$LC	ELECTRONIC LIGHTING CONTROLLER AS SPECIFIED
$M	MOTOR STARTER SWITCH w/ PILOT LIGHT, HUBBELL No. HBL3031PL OR EQUAL BY SQUARE D
T & S	VERTICAL J–BOX FOR THERMOSTATS & SENSORS – 54"AFF U.O.N T° E.C. TO UTILITY PLATFORM; COORDINATE w/ M.C.
	FUSED EQUIPMENT DISCONNECT U.O.N.– SEE SPECIFICATION SECTION 16400
MS	COMBINATION MOTOR STARTER DISCONNECT
	COMBINATION START/STOP BUTTON MOTOR STARTER– SQUARE D No. MB02 FOR WELDING (EF–6D) & SQUARE D No. MC03 FOR CARPENTRY (EF–6E)
	EMERGENCY STOP BUTTON – STI No. 040 OR APPROVED EQUAL WITH STOPPER & WARNING ALARM COVER, INDICATOR LIGHT, KEY RESET, YELLOW COLOR, & "EMERGENCY" GRAPHIC MESSAGE
J or J	JUNCTION BOX, FLUSH MOUNTED IN ALL FINISHED SPACES
	ELECTRICAL PANEL AS SPECIFIED – SEE SPECIFICATION SECTION 16400
	GROUNDING ELECTRODE CONDUCTOR INSTALLED IN ACCORDANCE WITH 1999 NEC ARTICLES 250–26 &/or 250–81
	REFER TO KEY NOTE No. 2
SP	CEILING MOUNT SPEAKER BY TECHNOLOGY CONTRACTOR UNDER DIVISION 17
SP	RECESSED WALL MOUNT SPEAKER BY TECHNOLOGY CONTRACTOR; FURNISH & INSTALL BACKBOX & RACEWAY TO UTILITY PLATFORM
EM SP WP	RECESSED WEATHER–PROOF WALL MOUNT SPEAKER BY TECHNOLOGY CONTRACTOR UNDER DIVISION 17; E.C. FURNISH & INSTALL BACKBOX & RACEWAY TO UTILITY PLATFORM
OC	CEILING MOUNTED SPACE OCCUPANCY SENSOR FOR LIGHTING CONTROL (SEE OC SENSOR LEGEND FOR TYPE DESCRIPTIONS.)
OC	WALL MOUNTED SPACE OCCUPANCY SENSOR FOR LIGHTING CONTROL (SEE OC SENSOR LEGEND FOR TYPE DESCRIPTIONS.)
	EMERGENCY LIGHTS AS SPECIFIED – SEE LIGHT FIXTURE SCHEDULE
CCTV	FUTURE CCTV CAMERA BY OWNER UNDER SEPARATE CONTRACT – PROVIDE 1"C FROM BELOW UTILITY PLATFORM TO CABLE MANAGEMENT HOOK ABOVE. CABLE UNDER DIVISION 17
	VIDEO STUDIO CAMERA BY OWNER
	EXIT SIGN w/ DIRECTIONAL ARROW(S) & BATTERY BACK–UP – SEE LIGHT FIXTURE SCHEDULE
EM	EXIT SIGN w/ BATTERY BACK–UP & EM LIGHTS – SEE LIGHT FIXTURE SCHEDULE
	DRY–TYPE TRANSFORMER AS SPECIFIED – SEE RISER DIAGRAMS, INSTALLATION DETAILS, & SPECIFICATION SECTION 16460
E	SLEEVE ROUGH–INS UNDER PAVING/CONCRETE; 3" FOR FUTURE USE, & 2" FOR SITE LIGHTING BY CP&L
UE	UNDERGROUND PRIMARY ELECTRICAL FEEDERS BY ELECTRICAL UTILITY
E	UNDERGROUND SECONDARY ELECTRICAL FEEDERS BY ELECTRICAL CONTRACTOR
CATV	TO FUTURE GROUND MOUNTED SATELLITE BY OWNER CABLE TV CABLING BY OTHERS — BLONDER–TONGUE BIDA SERIES CATV AMPLIFIER INSIDE No. IRN–1924 OR EQUIVALENT NEMA 1 LOCKABLE CAB'T AUSTIN CO. OR EQUAL
TELCOM	TELECOMMUNICATIONS CABLING BY OTHERS
FO	FIBER OPTIC CABLE BY TECHNOLOGY CONTRACTOR; WIRE MANAGEMENT BY E.C.
	RACEWAY AS SPECIFIED CONCEALED ABOVE CEILING
	RACEWAY AS SPECIFIED CONCEALED U.G.
	HOME–RUN TO PANEL w/ CONDUCTORS, NEUTRAL, & GROUND
	CABLE TRAY (CENTER SPLINE & LADDER TYPES), SEE DETAILS THESE DRAWINGS

ABBREVIATIONS:

A.C.	ABOVE CEILING	C	CONDUIT AS SPECIFIED
A.F.F.	ABOVE FINISH FLOOR	NL	24 HOUR NIGHT LIGHT
A.H.J.	AUTHORITY HAVING JURISDICTION	NTS	NOT TO SCALE
EF	EXHAUST FAN	P.B.	PUSH BUTTON
EWC	ELECTRIC WATER COOLER	T.C.	TECHNOLOGY CONTRACTOR
EWH	ELECTRIC WATER HEATER	TP	TAMPER–PROOF
G	GROUND CONDUCTOR	U.O.N.	UNLESS OTHERWISE NOTED
G.C.	GENERAL CONTRACTOR	U.G.	UNDERGROUND
P.C.	PLUMBING CONTRACTOR	WP	WEATHERPROOF ENCLOSURE
M.C.	MECHANICAL CONTRACTOR	U.P.	UTILITY PLATFORM
E.C.	ELECTRICAL CONTRACTOR OR EMPTY CONDUIT		
B–2	TYPICAL CIRCUIT DESIGNATION: PANEL 'B', BREAKER #2		

NOTE: LEGEND IS FOR REFERENCE ONLY – SYMBOLS/ABBREVIATIONS SHOWN DO NOT NECESSARILY APPLY TO THIS PROJECT

GENERAL ELECTRICAL NOTES

1. DO NOT SCALE THESE DRAWINGS; REFER TO LARGEST SCALE ARCHITECTURAL PLANS.
2. REFERENCE SPECIFICATIONS AND ARCHITECTURAL, STRUCTURAL, PLUMBING, & HVAC DRAWINGS PRIOR TO CONSTRUCTION.
3. THESE DRAWINGS ARE DIAGRAMMATIC ONLY AND ARE NOT INTENDED TO SHOW MINOR DETAILS AND EXACT LOCATIONS. DESIGN ADJUSTMENTS SHALL BE ANTICIPATED BY THE CONTRACTOR TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
4. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH CURRENT NEC/NFPA 70. CONTRACTOR SHALL NOTIFY ENGINEER REGARDING ANY CODE DISCREPANCIES SHOWN ON PLAN. ANY PERMIT OR INSPECTION FEES ARE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
5. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE METHOD & HAVE NOT BEEN VERIFIED; CONTRACTOR SHALL DETERMINE EXACT LOCATION OF UNDERGROUND UTILITIES PRIOR TO COMMENCING WORK & IS RESPONSIBLE FOR ANY DAMAGE INCURRED BY FAILURE TO DO SO. EACH PRIME CONTRACTOR PERFORMING EXCAVATIONS OR UNDERGROUND WORK SHALL BE RESPONSIBLE FOR THE LOCATION OF ANY EXISTING UTILITIES IN THE AREA OF THEIR WORK. NOTIFY THE UTILITY LOCATOR SERVICE (1–800–632–4949) AT LEAST 48 HOURS PRIOR TO COMMENCING CONSTRUCTION IN ORDER THAT EXISTING UTILITIES IN THE AREA MAY BE FLAGGED AND CONTRACTOR SHALL USE ALL CARE NECESSARY WHEN WORKING IN AREAS KNOWN OR SUSPECTED TO CONTAIN UNDERGROUND UTILITIES, INCLUDING HAND DIGGING.
6. CONTRACTOR SHALL INSTALL, GROUND AND BOND SYSTEM PER THE CURRENT NEC.
7. CONTRACTOR SHALL NOT PUT MORE THAN SIX (6) DUPLEX RECEPTACLES ON ANY GIVEN 1P–20A CIRCUIT UNLESS SHOWN OTHERWISE.
8. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ELECTRICAL FIXTURES AND EQUIPMENT WITH OTHER PRIME CONTRACTORS PRIOR TO INSTALLATION TO AVOID CONFLICTS. CONTACT ARCHITECT IF ALTERNATE INSTALLATION METHOD IS REQUIRED.
9. PROVIDE LINE SIDE POWER WIRING UP TO TERMINATION POINT OF JUNCTION BOX, DISCONNECT SWITCHES, WIRING THROUGH, STARTER, ETC.
10. LOAD–SIDE FINAL CONNECTIONS FOR ALL EQUIPMENT BY OTHERS UNLESS NOTED OTHERWISE. REFERENCE MECHANICAL DRAWINGS FOR EQUIPMENT DETAILS AS REQUIRED
11. MINIMUM WIRE SIZE SHALL BE #12 AWG., MINIMUM CONDUIT SIZE SHALL BE 3/4".
12. CONTRACTOR SHALL COORDINATE TELEPHONE AND DATA OUTLETS REQUIRED WITH OWNER PRIOR TO GYP. BOARD BEING INSTALLED.
13. HALLWAY AND MAINTENANCE RECEPTACLES SHALL NOT BE CIRCUITED WITH OFFICE OR OTHER GENERAL PURPOSE RECEPTACLES.
14. ELECTRICAL CONTRACTOR SHALL PROVIDE HACR RATED CIRCUIT BREAKERS ON ALL HVAC EQUIPMENT.
15. CONDUCTORS SHALL BE TYPE THHN, THWN, OR THW. BRANCH CIRCUIT CONDUCTOR SHALL NOT BE SMALLER THAN No. 12 AWG., EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE. HOME RUNS ORIGINATING MORE THAN 80' AT 120V FROM PANEL LOCATION SHALL BE No. 10 AWG MINIMUM SIZE. WIRES No. 10 AWG AND SMALLER SHALL BE SOLID; WIRES No. 8 AWG AND LARGER SHALL BE STRANDED. PROVISIONS OF SECTION 210–5 COLOR CODE, NEC, SHALL BE STRICTLY COMPLIED WITH AND BE CONSISTENT THROUGHOUT ENTIRE SYSTEM.
16. ALL CIRCUITS SHALL BE PROVIDED WITH AN INSULATED EQUIPMENT GROUND CONDUCTOR SIZED IN ACCORDANCE WITH CURRENT NEC TABLE 250–122. HASHMARK FOR GROUNDING CONDUCTOR IS NOT INDICATED ON THESE DRAWINGS. RACEWAY SHALL NOT BE USED AS EQUIPMENT GROUND.
17. IN ADDITION TO MECHANICAL FASTENING TO CEILING TRACK, SUPPORT LIGHT FIXTURES AT EACH CORNER INDEPENDENTLY OF SUSPENDED CEILING WITH 12 GAUGE WIRE. CONNECT TO STRUCTURAL SYSTEM OF BUILDING.
18. ALL CONDUIT SHALL BE CONCEALED UNLESS OTHERWISE NOTED. ALL EMPTY CONDUIT SHALL HAVE A PULL WIRE.
19. ALL CONDUIT FITTINGS SHALL BE COMPRESSION TYPE WITH INSULATED THROATS. ALL EXTERIOR CONDUIT FITTINGS SHALL BE LISTED FOR USE IN WET LOCATIONS PER 2017 NEC ARTICLE 314.
20. SERVICE ENTRANCE CONDUCTORS SHALL BE IN CONDUIT (RIGID OR PVC). EXTERIOR CONDUIT EXPOSED ABOVE SLAB SHALL BE RIGID. INTERIOR CONDUIT EXPOSED SHALL BE ELECTRICAL METALLIC TUBING (EMT). EMT SHALL BE COLD–ROLLED STEEL TUBING WITH A COATING ON THE OUTSIDE AND PROTECTED ON THE INSIDE BY A ZINC, ENAMEL, OR EQUIVALENT CORROSION RESISTANT COATING AND CONFORMING TO THE REQUIREMENTS OF ANSI C 80.3–1996 OR LATER EDITION. ALL UNDERGROUND CONDUIT SHALL BE UL LISTED SCHD 40 PVC CONFORMING TO ARTICLES 352 & 300 OF THE NEC. WHERE SCHD 40 PVC IS INSTALLED BELOW GRADE OR UNDER FLOOR SLABS, THE ELBOWS REQUIRED TO TURN THE RACEWAY UP INTO CABINETS, EQUIPMENT, ETC., SHALL BE OF RIGID STEEL TO THE CABINET, EQUIPMENT, ETC. FEEDER CIRCUITS SHALL BE IN CONDUIT.
21. ALL JUNCTION OR DEVICE BOXES SHALL HAVE A COVER.
22. ALL 1P–20A CIRCUITS SHALL BE 2–#12 & 1–#12G IN 3/4"C U.N.O.
23. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH ALL VOLUMES OF THE NCSBC, INSPECTORS HAVING JURISDICTION, AND ALL OTHER APPLICABLE CODES AND ORDINANCES.
24. EACH PIECE OF ELECTRICAL GEAR, EQUIPMENT, ETC., SHALL BEAR A "UL" LABEL.
25. METAL ROOF DECKING SHALL NOT BE PENETRATED TO SUPPORT ELECTRICAL ITEMS.
26. ALL EMERGENCY AND EXIT LIGHTS SHALL BE CONNECTED TO THE UNINTERRUPTED SIDE OF THE LOCAL LIGHTING CIRCUIT.
27. INSTALL ENGRAVED PHENOLIC LABELS ON ALL ELECTRICAL GEAR, DISCONNECTS, ETC. FASTEN WITH SCREW FASTENERS.
28. E.C. SHALL INSTALL HEAVY DUTY NEMA–1 DISCONNECTS AT ALL INTERIOR LOCATIONS INDICATED AND HEAVY DUTY NEMA–3R DISCONNECTS AT ALL EXTERIOR LOCATIONS INDICATED ON THESE DRAWINGS.
29. VERIFY WITH OWNER LOCATION/TYPE OF ALL FIXTURES, PANEL BOXES, OUTLET PLACEMENT, ETC. BY HOLDING AN ELECTRICAL WALKTHROUGH ON THE BUILDING SITE ONCE FRAMING IS COMPLETED.
30. ELECTRICAL BOXES INSTALLED IN U.L. RATED WALLS SHALL BE LOCATED A MINIMUM OF 2'–0" FROM ANY OTHER ELECTRICAL BOX IN THAT WALL.
31. LIGHTING SWITCHES, RECEPTACLES AND/OR DATA OUTLETS SHALL NOT BE MOUNTED BACK TO BACK IN ANY WALL.
32. CABLE LOCATED IN PLENUMS SHALL BE PLENUM–RATED. ALL CABLE INSTALLED IN AREAS WITH EXPOSED STRUCTURE SHALL BE IN CONDUIT.
33. FLOOD LIGHTS TO BE MOTION DETECTORS WITH OVERRIDE SWITCHES IN ORDER TO PROVIDE CONTINUOUS LIGHTING. SWITCHES LOCATED PER OWNER REQUIREMENTS.
34. PROVIDE DOOR BELLS AND CHIME AT LOCATIONS PER OWNER VERIFICATION.
35. PROVIDE THERMOSTATIC CONTROLLED ATTIC EXHAUST FANS AT ALL ATTIC SPACES. VERIFY WITH HVAC CONTRACTOR NUMBER REQUIRED TO VENT ATTIC AREA.
36. E.C. SHALL INSTALL COMPLY WITH ANSI A117.1 FOR OUTLET AND CONTROL SWITCH MOUNTING HEIGHTS FOR ADA ACCESSIBILITY.
37. E.C. SHALL BE RESPONSIBLE FOR ALL LINE SIDE AND LOAD SIDE WIRING ON ALL EQUIPMENT REQUIRING ELECTRICAL POWER EXCEPT EQUIPMENT PROVIDED BY OTHERS REQUIRING A FUSED DISCONNECT SWITCH. E.C. SHALL BE RESPONSIBLE FOR LINE SIDE WIRING AND PROVIDING FUSED DISCONNECT FOR EQUIPMENT PROVIDED BY OTHERS. LOAD SIDE WIRING AND FUSING FOR EQUIPMENT PROVIDED BY OTHERS SHALL BE PROVIDED BY THE RESPECTIVE CONTRACTOR.
38. ALL HOLES CUT IN FLOOR, CEILING AND WALLS SHALL BE CORE–DRILLED OR SAWED.
39. WHERE DISTANCE TO FIRST OUTLET ON A 20 AMP CIRCUIT EXCEEDS 100 FEET, MINIMUM SIZE OF CONDUCTOR TO BE #10 AWG TO FIRST OUTLET
40. CONDUIT SHALL NOT BE RUN EXPOSED IN FINISHED AREAS UNLESS APPROVED BY ARCHITECT / OWNER. CONDUIT SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO WALL & FLOOR CONSTRUCTION IN FIRST CLASS WORKMANSHIP MANNER. CONDUIT SHALL BE BENT IN ACCORDANCE WITH NEC MINIMUM RADIUS REQUIREMENTS. WHERE SCHD 40 PVC IS INSTALLED UNDER FLOOR SLABS, THE ELBOWS REQUIRED TO TURN THE RACEWAY UP INTO CABINETS, EQUIPMENT, ETC., WHERE SUBJECT TO DAMAGE, SHALL BE OF RIGID STEEL
41. PROVIDE 3" WIDE RED MAGNETIC WARNING TAPE MARKED "BURIED ELECTRIC LINE BELOW" SIX INCHES BELOW FINISH GRADE FOR ALL U.G. CONDUIT.
42. ENCASE ALL U.G. CONDUITS NOT UNDER BLDG SLAB IN 3" OF CONCRETE
43. ALL JUNCTION OR DEVICE BOXES SHALL HAVE A COVER; PROVIDE COVER PLATES AS SPECIFIED IN SECTION 16140.
44. THE TERM "VERIFY" RELATIVE TO THESE DRAWINGS SHALL BE DEFINED AS OBTAINING EQUIPMENT INSTALLATION INSTRUCTIONS FROM EQUIPMENT SUPPLIER OR OBTAINED OWNER'S REPRESENTATIVE'S APPROVAL.

SEE ARCHITECTURAL SECTIONS FOR MOUNTING HEIGHTS ON ALL ELECTRICAL DEVICES PRIOR TO ANY ROUGH–INS AND ELECTRICAL WORK.

PROVIDE PHENOLIC LABELS TO ALL DISCONNECT SWITCHES, MOTOR RATED SWITCHES, PANELS, WATER HEATERS, HVAC EQUIPMENT.

EC SHALL PROVIDE TAMPER PROOF RECEPTACLES IN ALL CLASSROOMS AND AREAS ACCESSABLE TO STUDENTS. RECEPTACLES MUST MEET REQUIREMENTS OF 2017 NEC. SEE 406.2 AND 406.12.

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COMMUNITY CENTER AND GYMNASIUM FOR
Alice F. Keene District Park

4561 County Home Road, Greenville, NC 27858

Project No.	22207
Date:	July 2023
Drawing no.	E 101

SITE ASSOCIATES, P.C. LICENSED ARCHITECTURE CORPORATION 418 GREENVILLE, NC

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No.	Date	Revision

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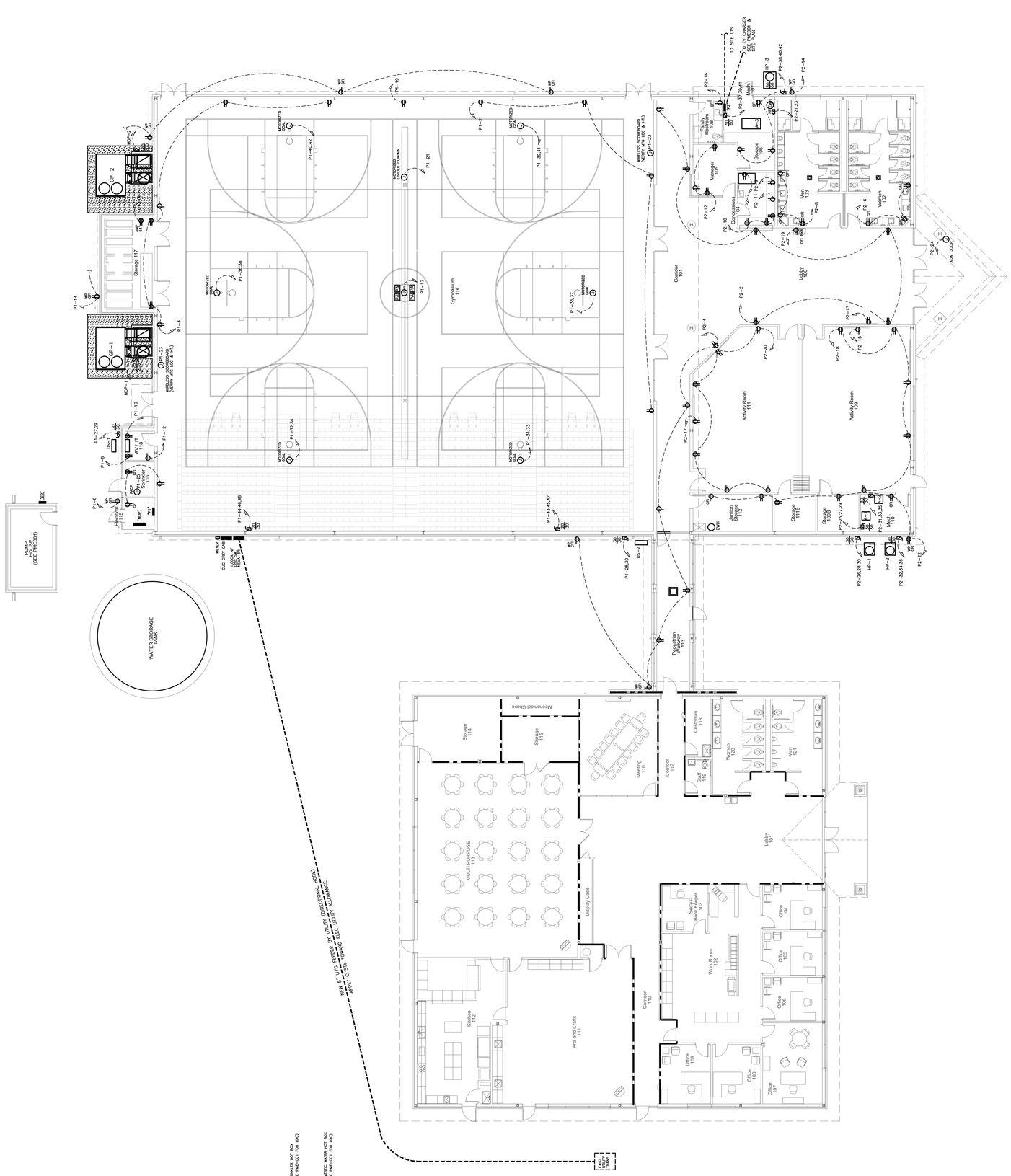
Project No. ES22044

7/21/23

POWER PLAN (BASE BID)
SCALE: 3/32" = 1'-0"



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PANELBOARD SCHEDULE - "MDP"

MAIN: 1,000A MLO (6 Sub) | VOLTAGE: 208/120 | PHASE: 3 | WIRE: 4 | MOUNTING: SURFACE | AIC: 22,000 | BUS BARS: COPPER

CKT #	BKR TRIP	POLE	WIRE SIZE	COND SIZE	DESCRIPTION	LOAD (KVA) LTG	REC	MTR	A/C	HTG	KIT	MISC	PHASE A B C	LOAD (KVA) LTG	REC	MTR	A/C	HTG	KIT	MISC	DESCRIPTION	COND SIZE	WIRE SIZE	POLE	BKR TRIP	CKT #
1	125	3	1	1 1/2"	GP-1				14.4								14.4				GP-2	1 1/2"	1	3	125	2
3									14.4								14.4									4
5									14.4								14.4									6
7	100	3	3	1 1/4"	PANEL "P1"	4.4	2.3	3.4	0.0	0.0	0.0	1.6		2.9	3.4	1.4	21.8	0.0	0.0	6.3	PANEL "P2"	3 1/2"	600	3	400	8
9						3.8	2.0	3.4	2.2	0.0	0.0	0.8		3.0	3.1	1.4	21.8	2.2	0.0	1.5						10
11						3.6	1.6	3.4	2.2	0.0	0.0	1.1		1.4	2.0	0.0	21.8	3.0	0.0	6.3						12
13	400	3	600	3 1/2"	BASE (SPARE)	0.4	2.3	0.0	24.8	0.0	0.0	0.6									SPACE			3		14
15					ALT (PANEL "P3")	0.9	2.3	0.0	24.8	0.0	0.0	0.3														16
17						0.8	1.6	0.0	24.8	0.0	0.0	0.3														18
LIGHTING (KVA): 21.2						13.9	12.1	###	122.0	0.0	0.0	4.7		7.3	8.6	2.8	108.6	5.2	0.0	###	CONNECTED LOAD (KVA): 309.5					
RECEPTACLES (KVA): 20.7																					DEMAND LOAD (KVA): 310.8					
MOTORS (KVA): 13.0													PHASE A	104	870.3											
A/C (KVA): 230.6													PHASE B	102	852.8						CONNECTED LOAD (AMPS): 859.0				
HEATING (KVA): 5.2													PHASE C	103	856.0						DEMAND LOAD (AMPS): 862.5				
KITCHEN (KVA): 0.0														KVA	AMPS											
MISCELLANEOUS (KVA): 18.8																										
NOTES:																										

DEMAND CALCS "MDP"

LIGHTING	21.20	KVA	X	125	%	= **26.5 KVA**
RECEPTAC TOTAL	20.70	KVA				
1ST	10.00	KVA	X	100	%	= **10.0 KVA**
REMAIN	10.70	KVA	X	50	%	= **5.4 KVA**
MOTORS	13.00	KVA	X	100	%	= **13.0 KVA**
LARGEST		KVA	X	125	%	= **0.0 KVA**
A/C	230.60	KVA	X	100	%	= **230.6 KVA**
WATER HEATING	5.20	KVA	X	125	%	= **6.5 KVA**
FUTURE		KVA	X	100	%	= **0.0 KVA**
KITCHEN	0.00	KVA	X	65	%	= **0.0 KVA**
MISCELLANEOUS	18.80	KVA	X	100	%	= **18.8 KVA**
TOTAL =	**862.5 amps**					= **310.8 KVA**

PANELBOARD SCHEDULE - "P1" (GYM)

MAIN: 100 MLO | VOLTAGE: 208/120 | PHASE: 3 | WIRE: 4 | MOUNTING: SURFACE | AIC: 22,000 | BUS BARS: COPPER

CKT #	BKR TRIP	POLE	WIRE SIZE	COND SIZE	DESCRIPTION	LOAD (KVA) LTG	REC	MTR	A/C	HTG	KIT	MISC	PHASE A B C	LOAD (KVA) LTG	REC	MTR	A/C	HTG	KIT	MISC	DESCRIPTION	COND SIZE	WIRE SIZE	POLE	BKR TRIP	CKT #
1	20	1	12	3/4"	EXTERIOR LTS	0.8								0.7							GYM 114	3/4"	12	1	20	2
3	20	1	12	3/4"	LTG STORAGE 117	0.2								1.1							GYM 114	3/4"	12	1	20	4
5	20	1	12	3/4"	LTG GYM 114	1.8								0.7							ELEC 115	3/4"	12	1	20	6
7	20	1	12	3/4"	LTG GYM 114	1.8								0.9							AV/IT 118	3/4"	12	1	20	8
9	20	1	12	3/4"	LTG GYM 114	1.8								0.9							AV/IT 118	3/4"	12	1	20	10
11	20	1	12	3/4"	LTG GYM 114	1.8								0.9							AV/IT 118	3/4"	12	1	20	12
13	20	1	12	3/4"	LTG GYM 114	1.8								0.7							EXTERIOR REC	3/4"	12	1	20	14
15	20	1	12	3/4"	LTG GYM 114	1.8															SPARE			1	20	16
17	20	1	12	3/4"	GYM PA							0.3								0.5	PA SYS AMP	3/4"	12	1	20	18
19	20	1	12	3/4"	SCORER'S TABLE							0.3								0.8	HOT BOXES	3/4"	10	1	20	20
21	20	1	12	3/4"	DIVIDER CURTAIN							0.8									SPARE			1	20	22
23	20	1	12	3/4"	SCOREBOARDS							0.3									SPARE			1	20	24
25	20	1	12	3/4"	FACP							0.5									SPARE			1	20	26
27	30	2	10	3/4"	DS-1				1.1								1.1				DS-2	3/4"	10	2	30	28
29									1.1								1.1									30
31	15	2	12	3/4"	MOTORIZED GOAL			0.7								0.7					MOTORIZED GOAL	3/4"	12	2	15	32
33								0.7								0.7										34
35	15	2	12	3/4"	MOTORIZED GOAL			0.7								0.7					MOTORIZED GOAL	3/4"	12	2	15	36
37								0.7								0.7										38
39	15	2	12	3/4"	MOTORIZED GOAL			0.7								0.7					MOTORIZED GOAL			2		40
41								0.7								0.7										42
43								0.3								0.3										44
45	20	3	12	3/4"	BLEACHERS			0.3								0.3					BLEACHERS	3/4"	12	3	20	46
47					(4#12 & 1#12G)			0.3								0.3					(4-#12 & 1#12G)					48
LIGHTING (KVA): 11.8						11.8	0.0	5.1	2.2	0.0	0.0	2.2		0.0	5.9	5.1	2.2	0.0	0.0	1.3	CONNECTED LOAD (KVA): 35.8					
RECEPTACLES (KVA): 5.9																					DEMAND LOAD (KVA): 38.8					
MOTORS (KVA): 10.2													PHASE A	12	97.5											
A/C (KVA): 4.4													PHASE B	12	101.7						CONNECTED LOAD (AMPS): 99.4				
HEATING (KVA): 0.0													PHASE C	12	99.2						DEMAND LOAD (AMPS): 107.5				
KITCHEN (KVA): 0.0														KVA	AMPS											
MISCELLANEOUS (KVA): 3.5																										
NOTES:																										

PANELBOARD SCHEDULE - "P2" (ADMIN)

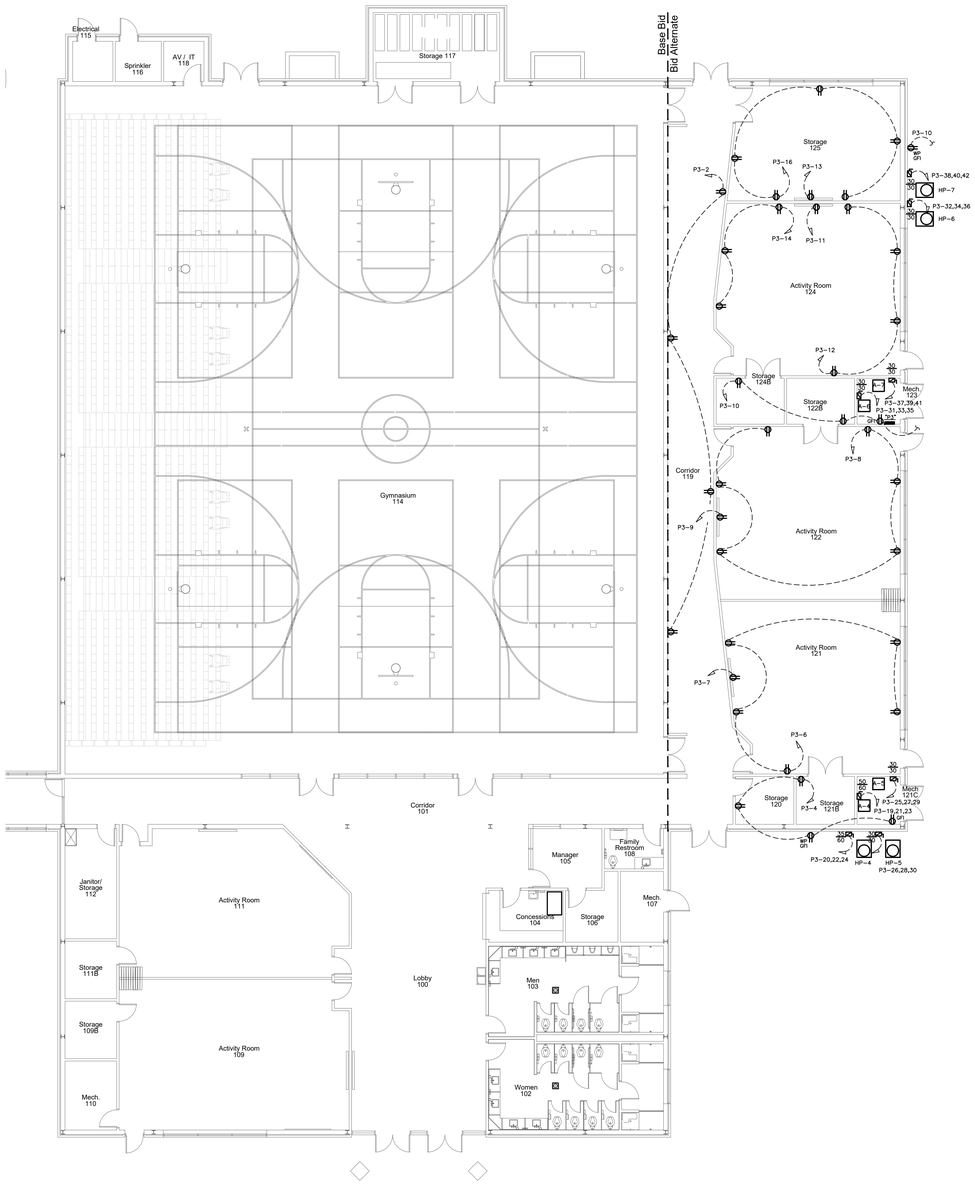
MAIN: 400 MLO | VOLTAGE: 208/120 | PHASE: 3 | WIRE: 4 | MOUNTING: SURFACE | AIC: 22,000 | BUS BARS: COPPER

CKT #	BKR TRIP	POLE	WIRE SIZE	COND SIZE	DESCRIPTION	LOAD (KVA) LTG	REC	MTR	A/C	HTG	KIT	MISC	PHASE A B C	LOAD (KVA) LTG	REC	MTR	A/C	HTG	KIT	MISC	DESCRIPTION	COND SIZE	WIRE SIZE	POLE	BKR TRIP	CKT #
1	20	1	12	3/4"	LTG LOBBY 100	1.5								1.1							LOBBY 100	3/4"	12	1	20	2
3	20	1	12	3/4"	LTG OFFICE 105	1.6								1.3							CORR 101	3/4"	12	1	20	4
5	20	1	12	3/4"	LTG ACTIVITY 111	1.4								0.5							WOMEN'S 102	3/4"	12	1	20	6
7	20	1	12	3/4"	SMALL APPL. 104							1.2		0.5							MEN'S 103	3/4"	12	1	20	8
9	20	1	12	3/4"	SMALL APPL. 104							1.2		0.5							CONCESSION 104	3/4"	12	1	20	10
11	20	1	12	3/4"	SMALL APPL. 104							1.2		0.5							MANAGER 105	3/4"	12	1	20	12
13	20	1	12	3/4"	MONITOR 100							0.3		0.7							MECH 107	3/4"	12	1	20	14
15	20	1	12	3/4"	MONITOR 109							0.3		0.2							FAMILY 108	3/4"	12	1	20	16
17	20	1	12	3/4"	MONITOR 111							0.3		0.9							ACTIVITY 109	3/4"	12	1	20	18
19	20	1	12	3/4"	EWC (GFI BKR)							1.0		1.1							ACTIVITY 111	3/4"	12	1	20	20
21	30	2	10	3/4"	EWH					2.2				1.1							MECH 110	3/4"	12	1	20	22
23										3.0										0.5	ADA DOOR	3/4"	12	1	20	24
25	30	3	10	3/4"	AHU-1				3.4								2.2				HP-1	3/4"	10	3	30	26
27									3.4								2.2									28
29									3.4								2.2									30
31	30	3	10	3/4"	AHU-2				3.4								2.2				HP-2	3/4"	10	3	30	32
33									3.4								2.2									34
35									3.4								2.2									36
37	50	3	6	1"	AHU-3				5.6								5.0				HP-3	1"	6	3	50	38
39									5.6								5.0									40
41									5.6								5.0									42
43	20	2	10	3/4"	SITE LTG	1.4								1.4							POND AERATOR	3/4"	10	2	25	44
45						1.4								1.4							SPRAY					46
47	40	2	6	3/4"	EV CHARGER							3.8								0.5	SPRAY CONTROLLER	3/4"	12	1	20	48
49												3.8									SPACE					50
51					SPARE																SPACE					52
53					SPARE																SPACE					54
RECEPTACLES (KVA): 8.6																					DEMAND LOAD (KVA): 106.5					
MOTORS (KVA): 2.8													PHASE A	36	298.7											
A/C (KVA): 65.4													PHASE B	33	275.3						CONNECTED LOAD (AMPS): 287.0				
HEATING (KVA): 5.2													PHASE C	35	287.7						DEMAND LOAD (AMPS): 295.7				
KITCHEN (KVA): 0.0														KVA	AMPS											
MISCELLANEOUS (KVA): 14.1																										
NOTES:																										

PANELBOARD SCHEDULE - "P3" (ALTERNATE)

MAIN: 400 MLO | VOLTAGE: 208/120 | PHASE: 3 | WIRE: 4 | MOUNTING: SURFACE | AIC: 22,000 | BUS BARS: COPPER

CKT #	BKR TRIP	POLE	WIRE SIZE	COND SIZE	DESCRIPTION	LOAD (KVA) LTG	REC	MTR	A/C	HTG	KIT	MISC	PHASE A B C	LOAD (KVA) LTG	REC	MTR	A/C	HTG	KIT	MISC	DESCRIPTION	COND SIZE	WIRE SIZE	POLE	BKR TRIP	CKT #
1					INT LTG CORR 119	0.4								0.7							CORR 119					2
3					INT LTG ACTIVITY 122	0.9								0.7							STORAGE 120					4
5					INT LTG ACTIVITY 125	0.8								0.9							ACTIVITY 121					6
7					MONITOR 121							0.3		1.1							ACTIVITY 122					8
9					MONITOR 122							0.3		0.7							MECH 123					10
11					MONTOR 124							0.3		0.7							ACTIVITY 124					12
13					MONITOR 125							0.3		0.5							ACTIVITY 124					14
15					SPARE									0.9							ACTIVITY 125					16
17					SPARE																SPARE					18
19	50	3	6	1"	AHU-4				5.5								2.5				HP-4	3/4"	8	3	35	20
21									5.5								2.5									22
23									5.5								2.5									24
25	30	3	10	3/4"	AHU-5				3.4								2.2				HP-5	3/4"	10	3	30	26
27									3.4								2.2									28
29									3.4								2.2									30
31	30	3	10	3/4"	AHU-6				3.4								2.2				HP-6	3/4"	10	3	30	32
33									3.4								2.2									34
35									3.4								2.2									36
37	30	3	10	3/4"	AHU-7				3.4								2.2				HP-7	3/4"	10	3	30	38
39									3.4								2.2									40
41									3.4								2.2									42
LIGHTING (KVA): 2.1						2.1	0.0	0.0	47.1	0.0	0.0	1.2		0.0	6.2	0.0	27.3	0.0	0.0	0.0	CONNECTED LOAD (KVA): 83.9					
RECEPTACLES (KVA): 6.2																					DEMAND LOAD (KVA): 84.4					
MOTORS (KVA): 0.0													PHASE A	28	234.2											
A/C (KVA): 74.4													PHASE B	28	235.8						CONNECTED LOAD (AMPS): 232.9				
HEATING (KVA): 0.0													PHASE C	28	229.2						DEMAND LOAD (AMPS): 234.3				
KITCHEN (KVA): 0.0														KVA	AMPS											
MISCELLANEOUS (KVA): 1.2																										
NOTES:																										



POWER PLAN (ALT BID)

SCALE: 3/32" = 1'-0"

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HITE ASSOCIATES, P.C. REGISTERED CORPORATION NORTH CAROLINA 418 GREENVILLE

COMMUNITY CENTER AND GYMNASIUM FOR

Alice F. Keene District Park

4561 County Home Road, Greenville, NC 27858

ENGINEERING SOURCE of NC, P.A.
ES Project No: ES22044
102-A2 Regency Blvd. Greenville, NC 27834
E-Mail Address: generalmail@engrsource.com
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CAROLINA SEAL 036911 ENGINEER D. MICHAEL SOUTHERLAND 7/21/23

Project No.	22207
Date:	July 2023
Drawing no.	E 101A

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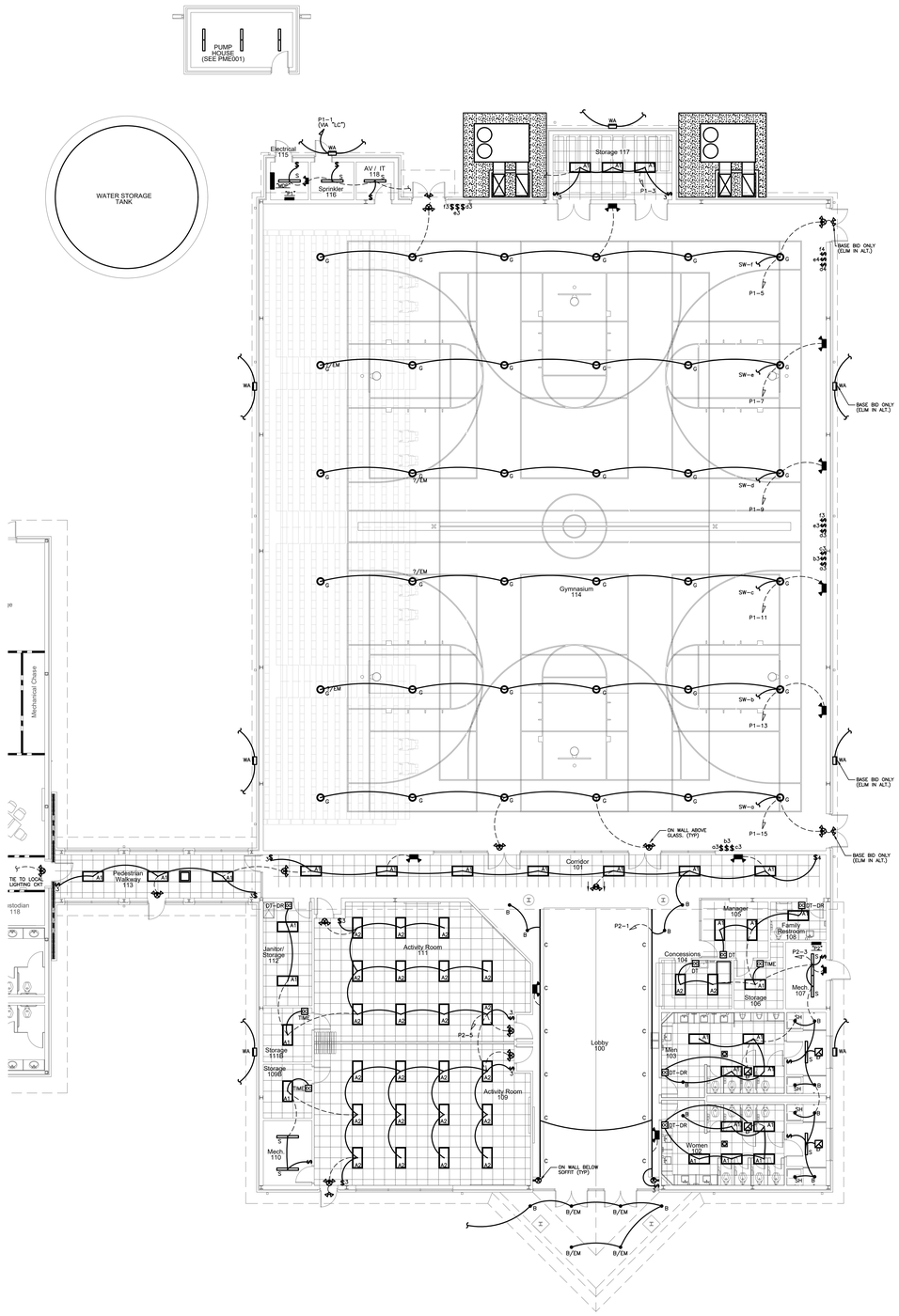

LIGHTING PLAN (BASE BID)

SCALE: 3/32" = 1'-0"

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ES Project No: ES22044

7/21/23

Project No.	22207
Date:	July 2023
Drawing no.	E 102

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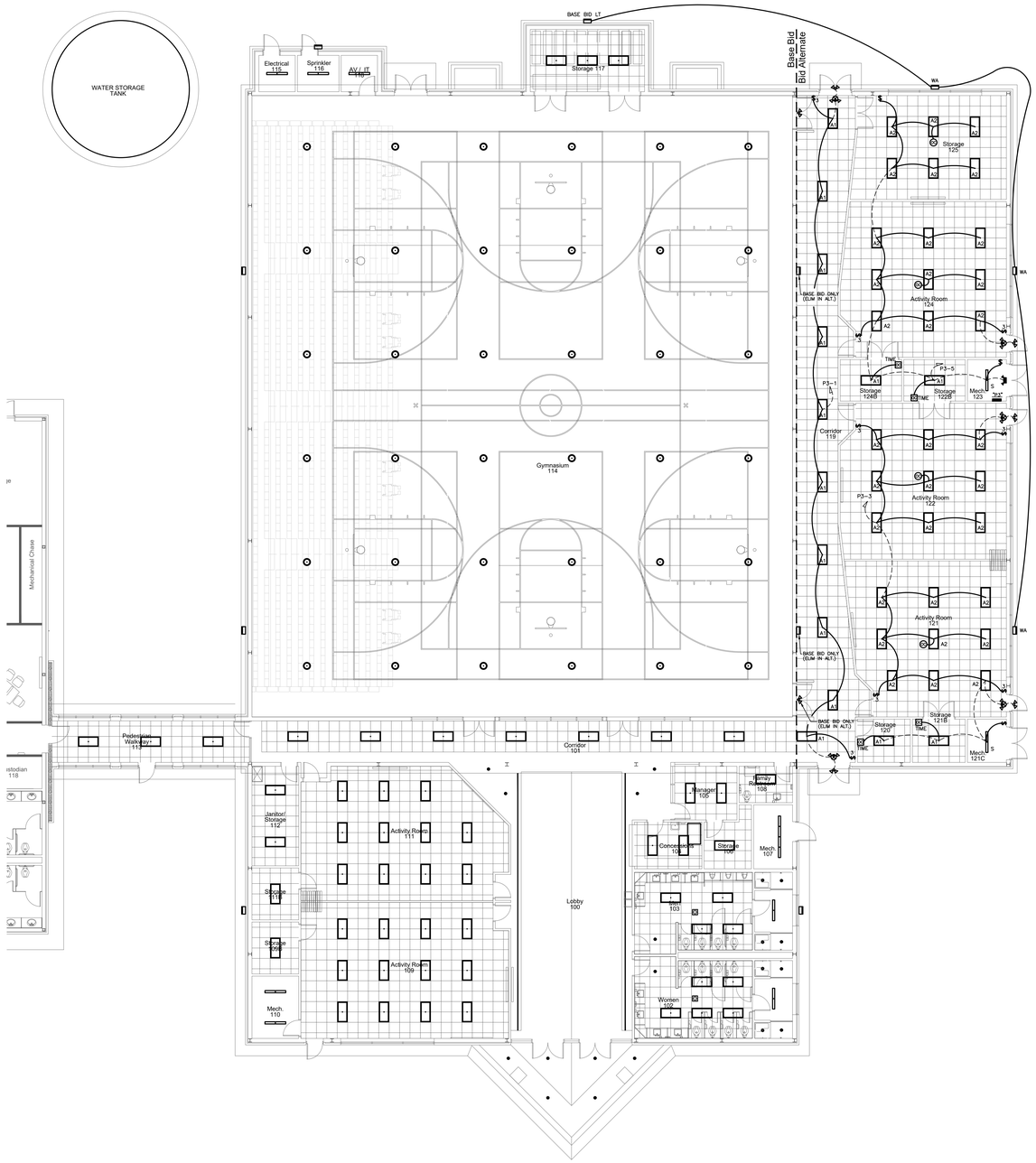

LIGHTING PLAN (ALTERNATE BID)
SCALE: 3/32" = 1'-0"

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COMMUNITY CENTER AND GYMNASIUM FOR
Alice F. Keene District Park
4561 County Home Road, Greenville, NC 27858

Project No.	22207
Date:	July 2023
Drawing no.	E 102A

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D. Thomas PE
SEAL 038161
ENGINEER
7/21/23
DAVID WILSON THOMAS

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FIRE ALARM INSTALLATION NOTES:

1. FIRE ALARM SHALL BE INSTALLED BY A MANUFACTURER APPROVED INSTALLATION COMPANY.

2. E.C. OR E.C.'S REPRESENTATIVE SHALL PERFORM THOROUGH TRAINING WITH OWNER'S REPRESENTATIVES PRIOR TO OWNER OCCUPANCY OF THE BUILDING.

3. FIRE ALARM SYSTEM SHALL BE INSTALLED IN ACCORDANCE TO ALL APPLICABLE STATE AND LOCAL LAWS AND IN ACCORDANCE WITH THE LATEST EDITION OF NFPA 72.

4. ALARM SHALL HAVE A SOUND LEVEL MEETING THE dB REQUIREMENTS OF 907.6.2.1.1 OF THE NC FIRE PREVENTION CODE AND NOT LESS THAN 20 dB ABOVE AMBIENT NOISE LEVELS. (TYPICALLY, 55 dB AMBIENT NOISE PER EDUCATION OCCUPANCY. ADJUST FOR NOISY ENVIRONMENTS).

5. ANY WIRING INSTALLED IN RETURN AIR PLENUM SHALL BE EITHER PLENUM-RATED CABLE OR IN CONDUIT. WIRING INSTALLED IN AREAS WITH EXPOSED STRUCTURE SHALL BE IN CONDUIT.

6. FIRE ALARM CONTRACTOR SHALL PROVIDE A FULL SET OF SHOP DRAWINGS, INCLUDING BATTERY CALCULATIONS, WIRING DIAGRAMS, AND DEVICE PRODUCT DATA TO THE AHJ FOR REVIEW AND APPROVAL PRIOR TO STARTING ROUGH-INS.

7. E.C. SHALL PROVIDE FRAMED BUILDING LAYOUT NEXT TO REMOTE ANNUNCIATOR. BUILDING LAYOUT SHALL SHOW ALL FIRE ALARM DEVICE LOCATIONS AND THEIR RESPECTIVE ADDRESSES.

8. FIRE ALARM SYSTEM SHALL INTERRUPT & SILENCE SCHOOL GYM PA SYSTEMS UPON ALARM ACTIVATION.

9. PROVIDE TAMPER DEVICE AT SPRINKLER SYSTEM HOTBOX, IF APPLICABLE. COOR'D HOTBOX LOCATION WITH CIVIL SITE PLAN.

10. E.C. SHALL BE RESPONSIBLE FOR REWORKING OR REMOVING THE EXISTING FIRE ALARM SYSTEM AND ALL ASSOCIATED DEVICES, WIRING, AND CONDUIT (AS REQUIRED) IF PLANS INDICATE A NEW FIRE ALARM SYSTEM AND DEVICES TO BE INSTALLED IN AN EXISTING AREA. COORDINATE ANY SHUT-DOWNS WITH OWNER. SEE RISER.

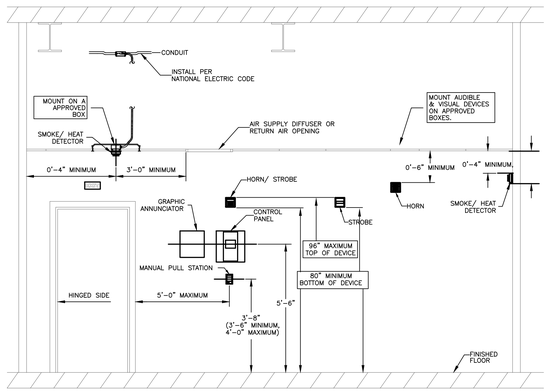
11. IN NEW GYM BUILDING, ALL PULL STATIONS SHALL HAVE PROTECTIVE POLYCARBONATE COVER PROVIDED AND INSTALLED. COVER SHALL BE STI STOPPER II OR EQUIVALENT APPROVED BY DESIGNER.

12. EXISTING BUILDING SHALL ALARM SEPARATELY FROM NEW GYM BUILDING. SEE MATRIX.

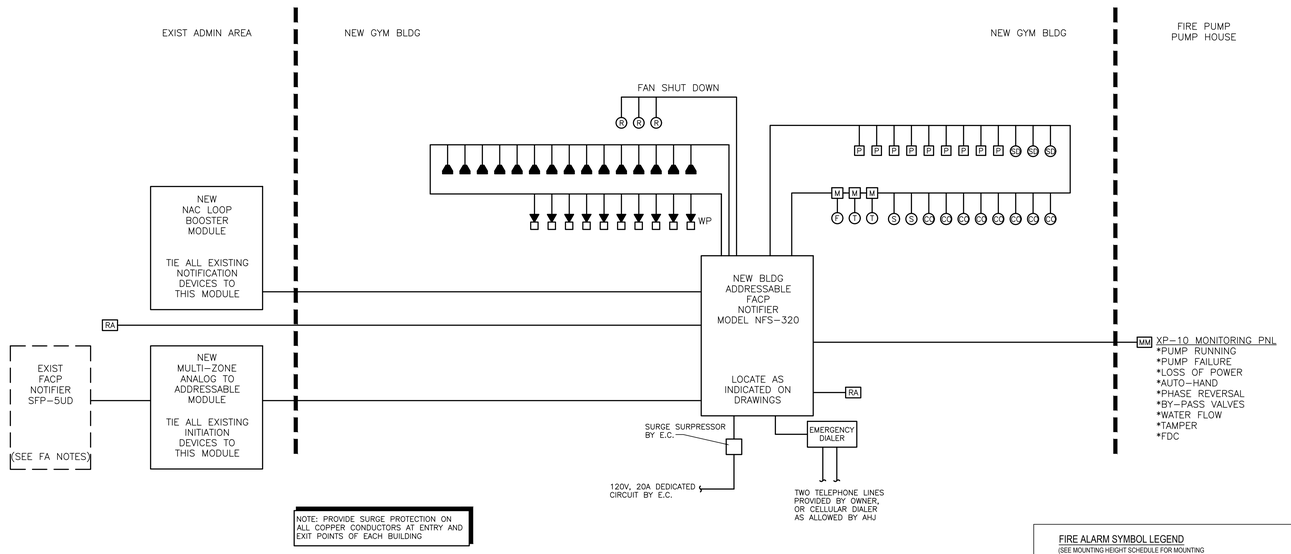
13. FIRE ALARM SYSTEM SHALL BE NOTIFIER TO MATCH WITH EXISTING CAMPUS SYSTEM. SEE RISER.

14. FA CONTRACTOR SHALL INCLUDE TESTING FOR THE FIRST RESPONDER EMERGENCY BDA SYSTEM IN HIS BID AND INCLUDE AN ALLOWANCE OF $35,000 TO PROVIDE AND INSTALL THE BDA SYSTEM IF IT IS REQUIRED.

NFPA 72 AND ADA DEVICE INSTALLATION REQUIREMENTS



FIRE ALARM DEVICE MOUNTING DETAIL
SCALE: N.T.S.



NOTE: PROVIDE SURGE PROTECTION ON ALL COPPER CONDUCTORS AT ENTRY AND EXIT POINTS OF EACH BUILDING

FIRE ALARM RISER DIAGRAM (BASE BID)
SCALE: 3/32" = 1'-0"

FIRE ALARM ALT BID: COST TO PROVIDE AND INSTALL ALL LABOR, MATERIAL, EQUIPMENT AND PROGRAMMING TO REMOVE THE EXISTING FIRE ALARM SYSTEM, INSTALL NEW DEVICES TO REPLACE THE EXISTING AND TIE EVERYTHING BACK TO THE NEW FACP IN THE GYM ADDITION. (SEE FA101)

WIRE LEGEND

- (A) 1 PAIR #16 SHIELDED CABLE
- (B) 2 COND. #14 THHN
- (C) 4 COND. #14 THHN
- (D) 8 COND. #22
- (E) 2 PAIR #18 SHIELDED + 2 COND. # 14 THHN

WALL LEGEND

- 8" NON-RATED WALL
- SMOKE TIGHT CONSTRUCTION WALLS AND CEILING
- ONE HOUR RATED FIRE BARRIER
- TWO HOUR RATED FIRE BARRIER

FIRE ALARM SYMBOL LEGEND
(SEE MOUNTING HEIGHT SCHEDULE FOR MOUNTING INFORMATION UNLESS NOTED OTHERWISE)

- P — FIRE ALARM MANUAL PULL STATION
- FIRE ALARM HORN/STROBE
- V — VOICE NOTIFICATION FIRE ALARM/STROBE
- SP — VOICE NOTIFICATION SPEAKER
- FIRE ALARM STROBE
- S — SMOKE DETECTOR
- H — HEAT DETECTOR, CEILING MOUNTED
- FACP — FIRE ALARM CONTROL PANEL, FLUSH MOUNTED.
- RA — REMOTE ANNUNICATOR PANEL, FLUSH MOUNTED
- SD — DUCT MOUNTED SMOKE DETECTOR, PROVIDED AND WIRED BY E.C., INSTALLED BY M.C.
- R — SHUT DOWN RELAY PROVIDED AND AND WIRED BY E.C.
- R — DUCT MOUNTED SMOKE DETECTOR REMOTE INDICATOR LIGHT MOUNTED IN CEILING PROVIDED AND INSTALLED BY E.C., LABEL ACCORDING TO MECHANICAL UNIT SERVED.
- FS — FSPRINKLER RISER WATER FLOW SENSOR. PROVIDED & WIRED BY E.C., INSTALLED BY SPRINKLER CONTRACTOR.
- TS — SPRINKLER RISER TAMPER SWITCH. PROVIDED AND WIRED BY E.C. INSTALLED BY SPRINKLER CONTRACTOR.
- V — SPRINKLER RISER WATER VALVE SHUT-OFF SENSOR. PROVIDED & WIRED BY E.C., INSTALLED BY SPRINKLER CONTRACTOR.
- MM — MONITOR MODULE
- BS — AREA OF RESCUE ASSISTANCE BASE STATION WITH VISUAL LOCATION INDICATOR. RATH 2500-205FMC (OR EQUAL)
- RS — AREA OF RESCUE ASSISTANCE 2-WAY COMMUNICATION REMOTE STATION. RATH 2100 FLUSH MTD (OR EQUAL)
- M — MAGNETIC DOOR HOLD OPEN DEVICE (POE)
- CM — CARBON MON-OXIDE SENSOR

FIRE ALARM SYSTEM ACTION MATRIX		SYSTEM ACTION																							
		ACTUATE COMMON ALARM SIGNAL INDICATOR	ACTUATE AUDIBLE ALARM SIGNAL	ACTUATE AUDIBLE LOCAL ALARM SIGNAL	ACTUATE VOICE NOTIFICATION	ACTUATE COMMON SUPERVISORY SIGNAL INDICATOR	ACTUATE AUDIBLE SUPERVISORY SIGNAL	ACTUATE COMMON TROUBLE SIGNAL INDICATOR	ACTUATE AUDIBLE TROUBLE SIGNAL	ACTUATE APPROPRIATE LOCATION INDICATOR	ACTUATE ALL AUDIBLE EVACUATION SIGNALS	ACTUATE ALL VISIBLE EVACUATION SIGNALS	DISPLAY / PRINT CHANGE OF STATUS	TRANSMIT ALARM SIGNAL TO SUPERVISING STATION	TRANSMIT SUPERVISORY SIGNAL TO SUPERVISING STATION	TRANSMIT TROUBLE SIGNAL TO SUPERVISING STATION	FAN SHUT DOWN (SPECIFIC UNITS WHO)	FAN SHUT DOWN (UNIVERSAL)	SHUNT POWER TO ELEVATOR	DAMPER SHUT DOWN	RELEASE MAGNETIC DOORS	FIRE SHUTTERS	SHUNT ALL GAS & POWER UNDER HOOD	COMMENTS/REMARKS
INITIATING DEVICE OR CONDITION (NEW GYM BLDG)	MANUAL ALARM STATION	X	X		X					X	X	X	X	X				X		X	X	X		ALARM IN NEW BLDG ONLY AND DISPATCH TO GYM BLDG
	SMOKE SENSOR / DETECTOR	X	X		X					X	X	X	X	X				X		X	X	X		
	DUCT SENSOR / DETECTOR					X	X			X	X	X	X	X			X							
	WATERFLOW SWITCH	X	X		X					X	X	X	X	X				X	X	X	X	X		
	TAMPER SWITCH					X	X			X			X		X									
	EMERGENCY LOCKDOWN BUTTON																				X			
	CARBON MON-OXIDE SENSOR			X		X	X			X			X		X									
	FIRE ALARM AC POWER FAILURE							X	X				X			X								
	FIRE ALARM SYSTEM LOW BATTERY							X	X				X			X								
	OPEN CIRCUIT							X	X				X			X								
	GROUND FAULT							X	X				X			X								
	NOTIFICATION APPLIANCE CIRCUIT																							
	WIRE-TO-WIRE SHORT							X	X				X											
INITIATING DEVICE OR CONDITION (EXIST BLDG)	MANUAL ALARM STATION	X	X		X					X	X	X	X	X				X		X	X	X		ALARM IN EXIST BLDG ONLY AND DISPATCH TO EXIST BLDG
	SMOKE SENSOR / DETECTOR	X	X		X					X	X	X	X	X				X		X	X	X		
	DUCT SENSOR / DETECTOR					X	X			X	X	X	X	X			X							
XP-10 PUMP HS	MONITORING STAION (ALL POINTS)					X	X			X			X		X									

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ES Project No: ES22044
7/21/23

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No.	Date	Revision

COMMUNITY CENTER AND GYMNASIUM FOR
Alice F. Keene District Park
4561 County Home Road, Greenville, NC 27858

Project No. 22207
Date: July 2023
Drawing no. FA 001

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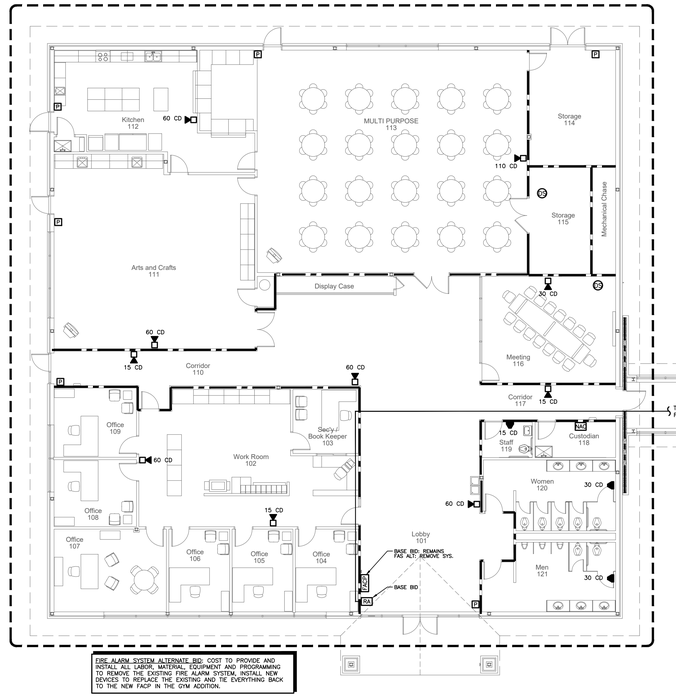
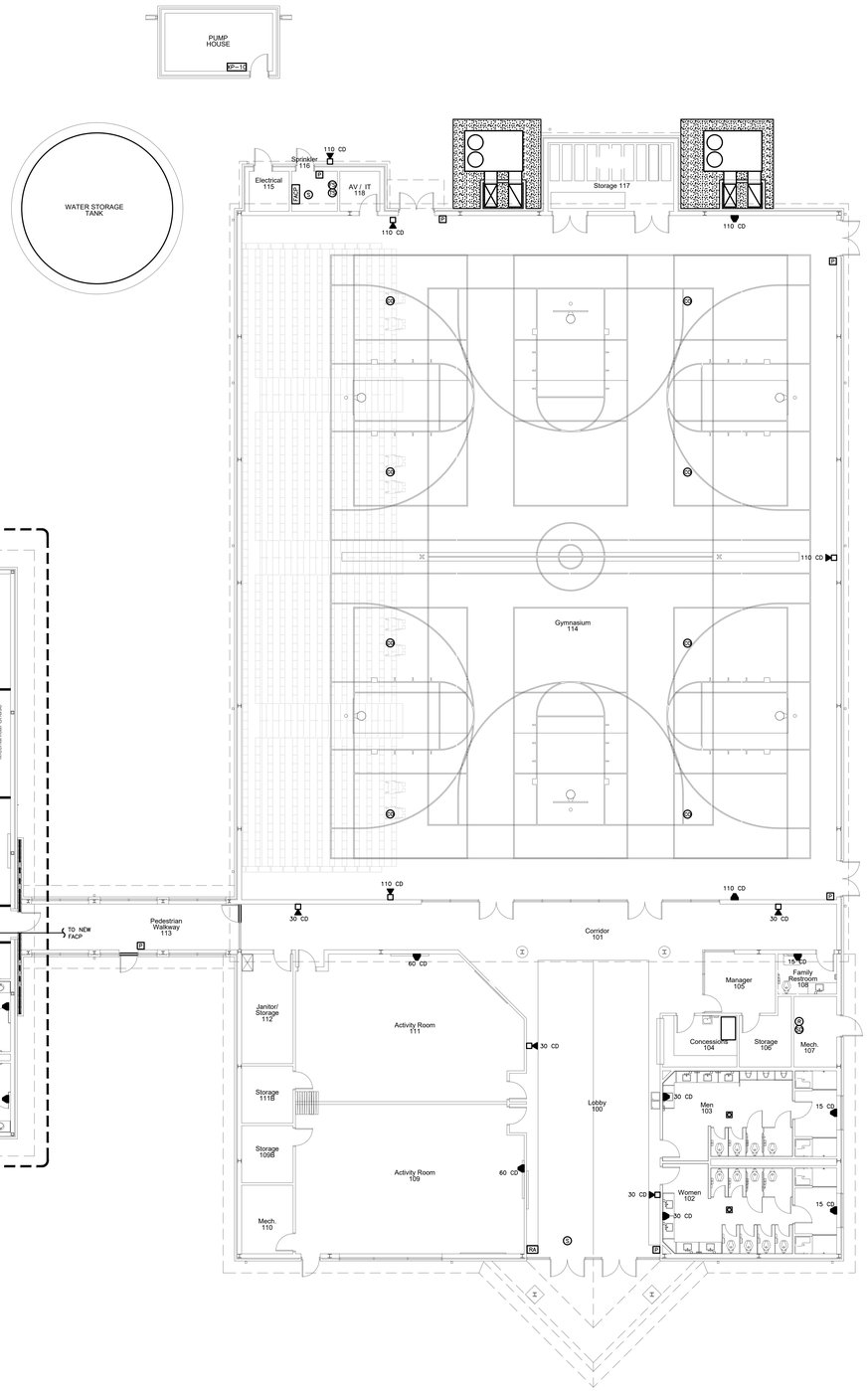
AT HOTBOX
SEE SITE PLAN
FOR LOC



FIRE ALARM SYSTEM ALTERNATE BID: COST TO PROVIDE AND INSTALL ALL LABOR, MATERIAL, EQUIPMENT AND PROGRAMMING TO REMOVE THE EXISTING FIRE ALARM SYSTEM, INSTALL NEW DEVICES TO REPLACE THE EXISTING AND TIE EVERYTHING BACK TO THE NEW FACP IN THE GYM ADDITION.



FIRE ALARM PLAN (BASE BID)
SCALE: 3/32" = 1'-0"

No.	Date	Revision

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GREENVILLE, N.C.

COMMUNITY CENTER AND GYMNASIUM FOR
Alice F. Keene District Park
4561 County Home Road, Greenville, NC 27858

Project No. 22207
Date: July 2023
Drawing no. FA 101

ES Project No: ES22044

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D. Wilson Pou
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26864
ENGINEER
7/21/23
D. WILSON POU

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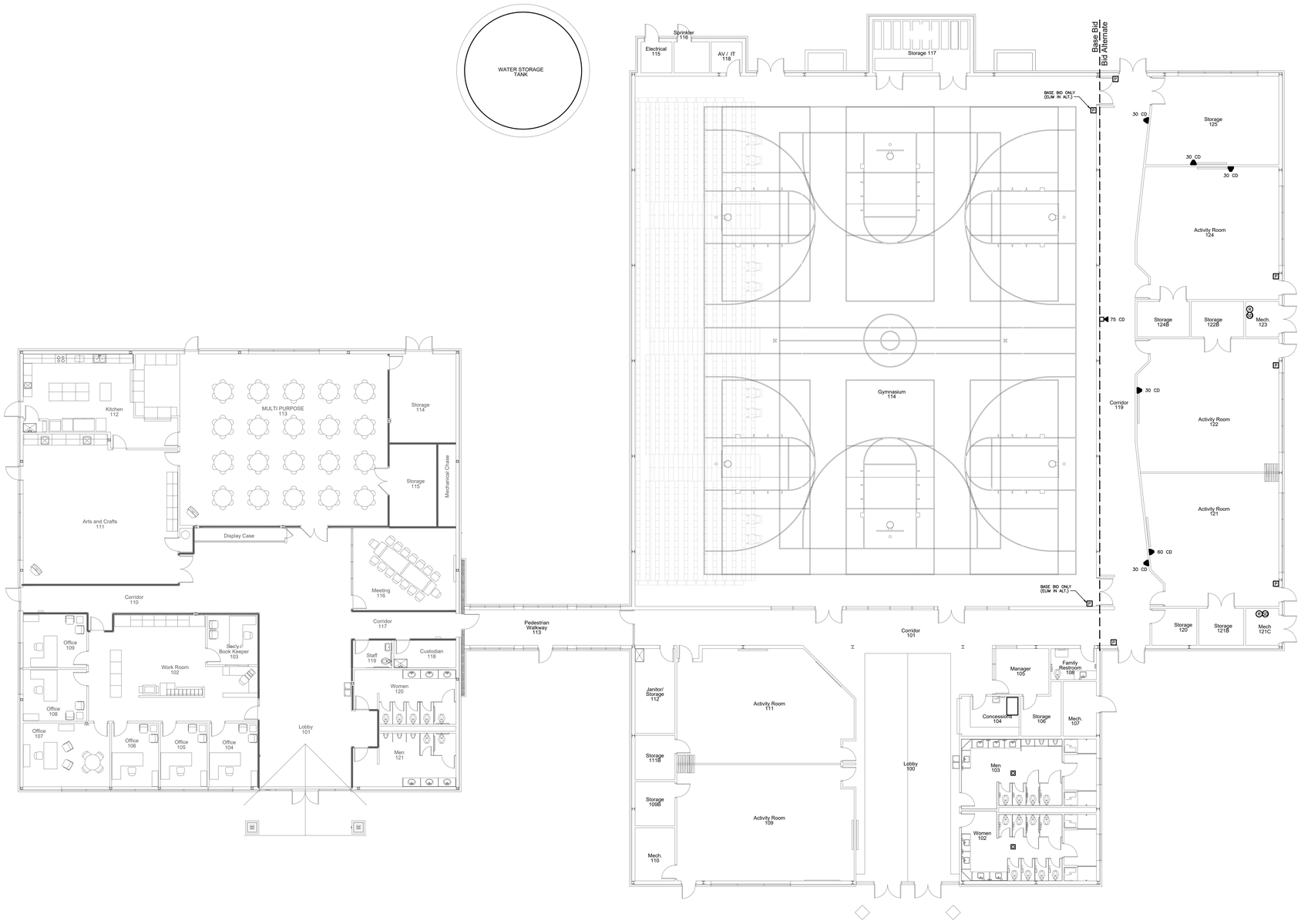

FIRE ALARM PLAN (ALTERNATE BID)
SCALE: 3/32" = 1'-0"

No.	Date	Revision

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CARY D. WILSON, P.E. — 7/21/23

Project No. 22207
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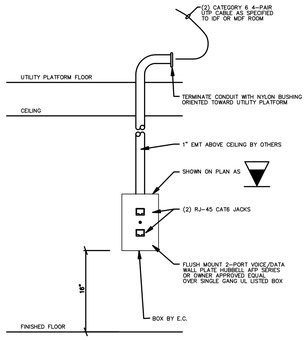
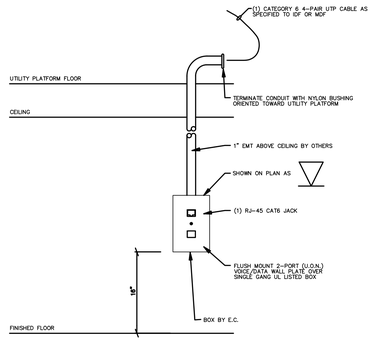
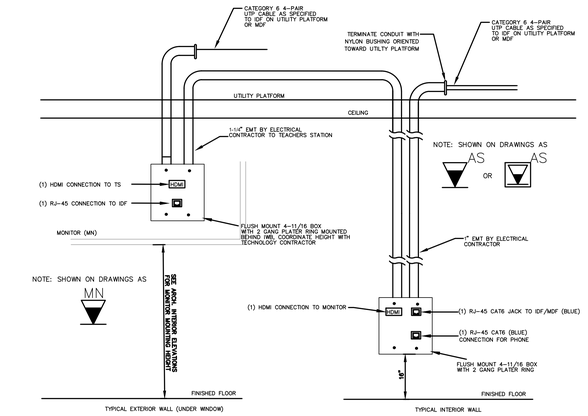


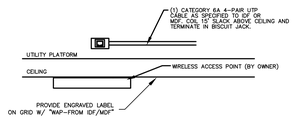
001.5 DUAL DATA OUTLET DETAIL
SCALE: NONE



001.6 SINGLE DATA OUTLET DETAIL
SCALE: NONE



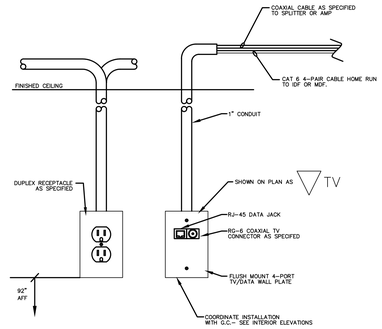
001.7 ACTIVITY ROOM MONITOR OUTLET DETAILS
SCALE: NONE



NOTE: SHOWN ON DRAWINGS AS AP

TYPICAL INTERIOR WALL

001.3 WAP OUTLET DETAIL
SCALE: NONE



001.4 POWER/TV/DATA WALL OUTLET DETAIL
SCALE: NONE

CABLE SEPARATION DISTANCE TABLE			
	< 2kVA	2 TO 5kVA	> 5kVA
PANELS, MOTORS, XFMRS, SIMILAR	18"	24"	36"
FLUORESCENT FIXT., HID BALLASTS, SIM.	12"	18"	24"
UNSHIELDED CONDUCTORS & POWER CONDUCTORS IN GROUNDED METALLIC CONDUIT	6"	12"	18"
SHIELDED LOW TENSION CONDUCTORS	6"	8"	12"

NOTE:
1) ALL FIRE ALARM CONDUCTORS SHALL BE RUN IN CONDUIT ON OPPOSITE SIDE OF TELECOMM CLOSET ON UTILITY PLATFORM

2) VOICE & DATA TELECOMMUNICATIONS CABLE SHALL NOT BE RUN PARALLEL TO POWER CABLE WHEN WITHIN 36", EVEN FOR SHORT DISTANCES

3) DUCTWORK & PIPING HAVE RIGHT-OF-WAY OVER CABLING

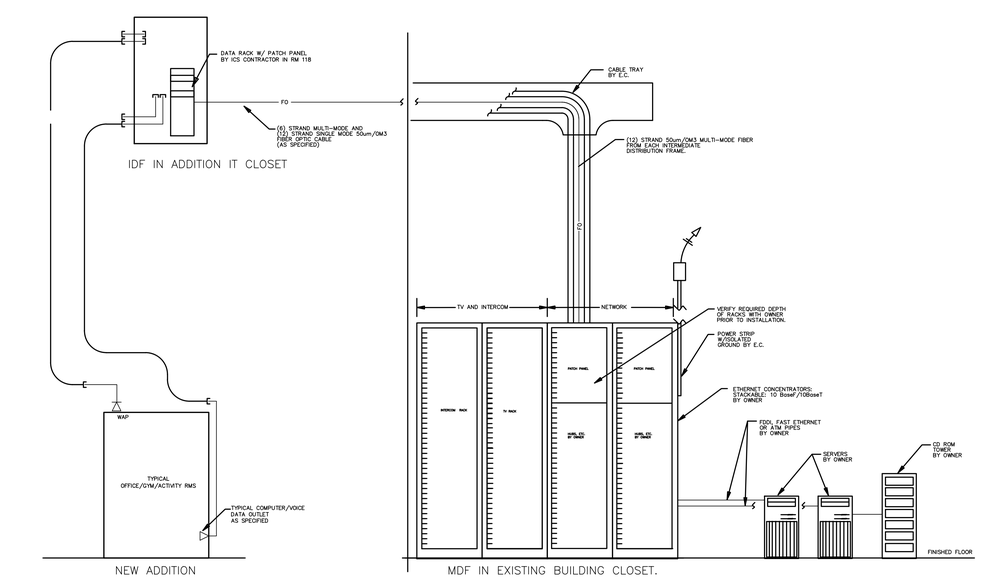
LV SYMBOL LEGEND

	CEILING MOUNTED WIRELESS ACCESS POINT-SEE DETAIL
	CIRCUIT CAMERA SG BOX BY E.C. (SINGLE DIRECTION)
	CIRCUIT CAMERA SG BOX BY E.C. (DOUBLE DIRECTION)
	CEILING MOUNTED INTERCOM SPEAKER
	CEILING MOUNTED SPEAKER - W/INTEGRAL AMPLIFIER
	RECESSED SPEAKER - WEATHERPROOF/VANDAL-RESISTANT
	SINGLE GANG MICROPHONE JACK
	DOOR CONTACT
	ELECTRIC DOOR STRIKE
	CEILING MOUNTED MOTION DETECTOR
	INTERCOM VOLUME SWITCH
	CIRCUIT CAMERA SG BOX BY E.C.
	SECURITY KEYPAD, SG BOX 54" A.F.F.
	WIDE ANGLE MOTION DETECTOR FOR SECURITY SYSTEM
	LONG RANGE MOTION DETECTOR FOR SECURITY SYSTEM

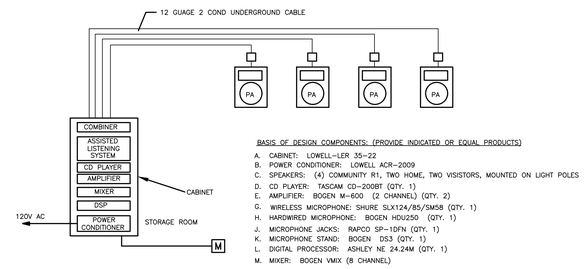
ABBREVIATIONS

A.F.F.	ABOVE FINISH FLOOR
A.F.G.	ABOVE FINISH GRADE
BF	BRACKET FAN
CF	CEILING FAN HEATER
E.C.	ELECTRICAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
S.C.	ELECTRICAL CONTRACTOR OF SAFETY CONDUIT
T.C.	TECHNOLOGY SYSTEMS CONTRACTOR
W.P.	TYPICAL CIRCUIT DESIGNATION: PANEL 'P', BREAKER #5
W.P.	TYPICAL WALL PACK
E	EXISTING TO REMAIN
U.O.N.	UNLESS OTHERWISE NOTED
U.G.	UNDERGROUND

NOTE: LEGEND IS FOR REFERENCE ONLY - SYMBOLS/ABBREVIATIONS SHOWN DO NOT NECESSARILY APPLY TO THIS PROJECT.



001.2 ICS CONNECTION DIAGRAM
SCALE: NONE



BASIS OF DESIGN COMPONENTS: (PROVIDE INDICATED OR EQUAL PRODUCTS)

A. CABINET: LOWELL-LER 35-22
B. POWER CONDITIONER: LOWELL ACR-2009
C. SPEAKERS: (4) COMMUNITY R1, TWO HOME, TWO VISISTORS, MOUNTED ON LIGHT POLES
D. CD PLAYER: TASCAM CD-200BT (QTY. 1)
E. AMPLIFIER: BOGEN M-600 (2 CHANNEL) (QTY. 2)
G. WIRELESS MICROPHONE: SHURE SLX124/85/SM58 (QTY. 1)
H. HARDWIRED MICROPHONE: BOGEN HDU250 (QTY. 1)
J. MICROPHONE JACKS: RAPCO SP-1DFN (QTY. 1)
K. MICROPHONE STAND: BOGEN DS3 (QTY. 1)
L. DIGITAL PROCESSOR: ASHLEY NE 24.24M (QTY. 1)
M. MIXER: BOGEN VMIX (8 CHANNEL)

GENERAL NOTES:

1. SPEAKERS SHALL BE HUNG AT LOCATION SHOWN ON PLANS. IT CONTRACTOR WILL PROVIDE FLYABLE SPEAKERS WITH SAFETY CHAINS, ETC.
2. CONTRACTOR WILL PROVIDE OWNER PERSONNEL TRAINING & PROVIDE O&M MANUALS AS PART OF TURNOVER DOCUMENTATION.
3. THE SOUND SYSTEM SHALL BE INTERCONNECTED WITH FIRE ALARM SYSTEM FOR SOUND OVERRIDE. PROVIDE RELAY AS NEEDED. THIS RELAY, CABLING, AND INTERCONNECTIONS SHALL BE PROVIDED BY THE FIRE ALARM CONTRACTOR.
4. 4 OHMS SETTING WILL BE USED FOR BOTH CHANNELS ON THE AMPLIFIER.

001.1 SOUND SYSTEM RISER
SCALE: NONE

No.	Date	Revision

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2600 Meridian Drive / Greenville, NC 27834 / tel (252) 757-0333

COMMUNITY CENTER AND GYMNASIUM FOR
Alice F. Keene District Park
4561 County Home Road, Greenville, NC 27858

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ES Project No:	ES22044
Project No.	22207
Date:	July 2023
Drawing no.	IT 001

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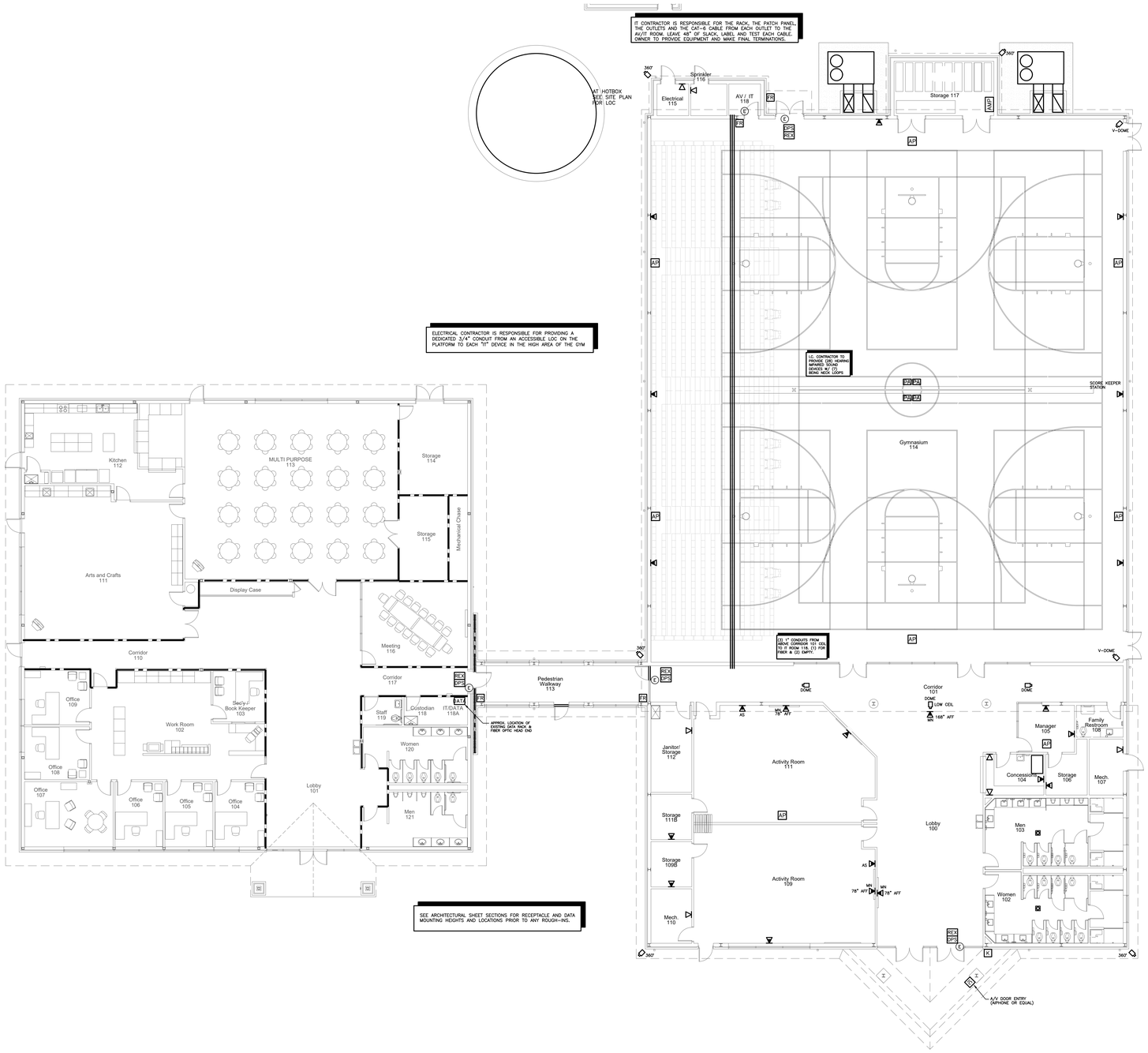

TECHNOLOGY PLAN (BASE BID)
SCALE: 3/32" = 1'-0"

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Project No.	22207
Date:	July 2023
Drawing no.	IT 101

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Project No: ES22044

D. Wilson Pou SEAL 049199 ENGINEER 7/21/23 D. WILSON POU

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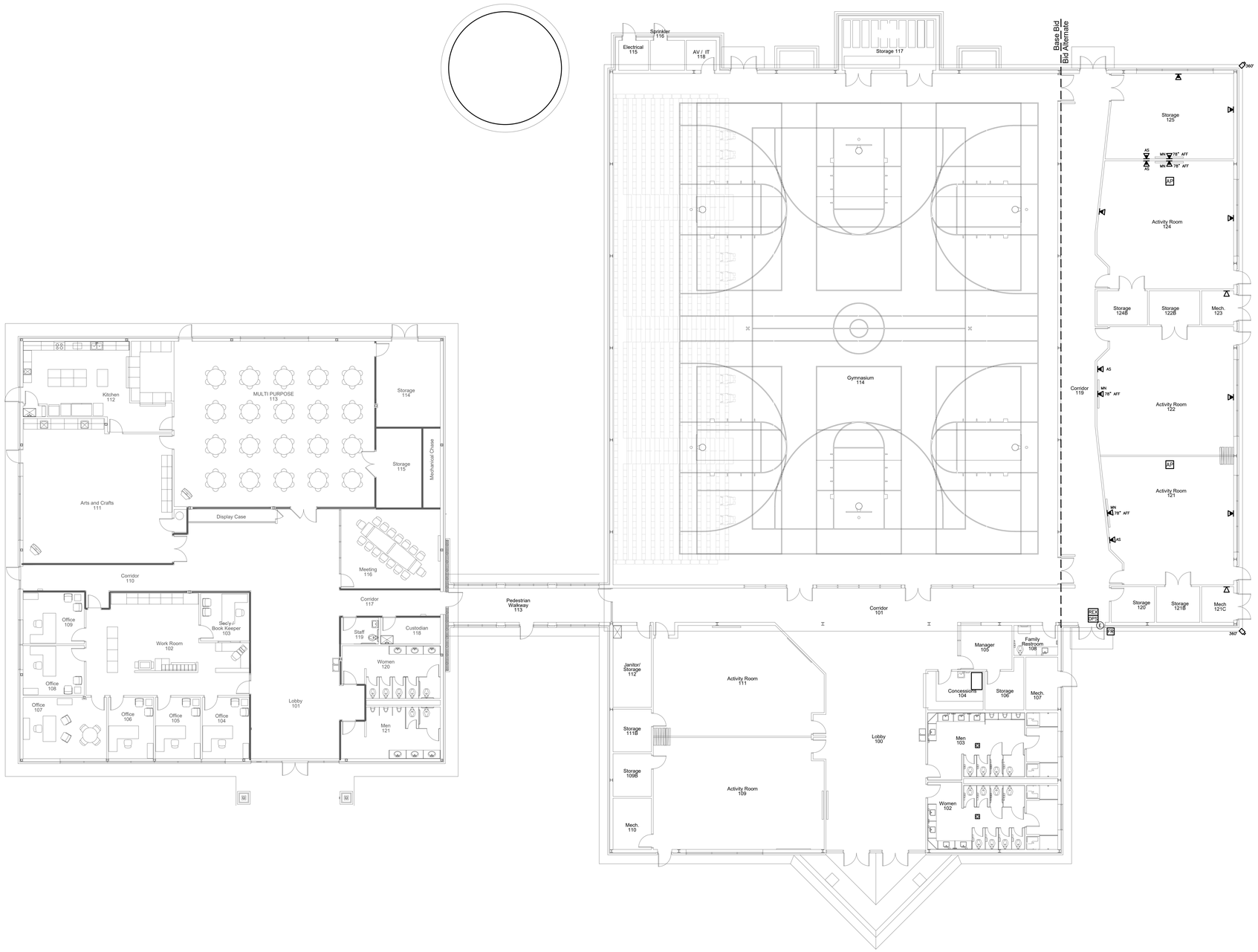

TECHNOLOGY PLAN (ALTERNATE BID)

SCALE: 3/32" = 1'-0"

No.	Date	Revision

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COMMUNITY CENTER AND GYMNASIUM FOR

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ES Project No: ES22044

Project No. 22207

Date: July 2023

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