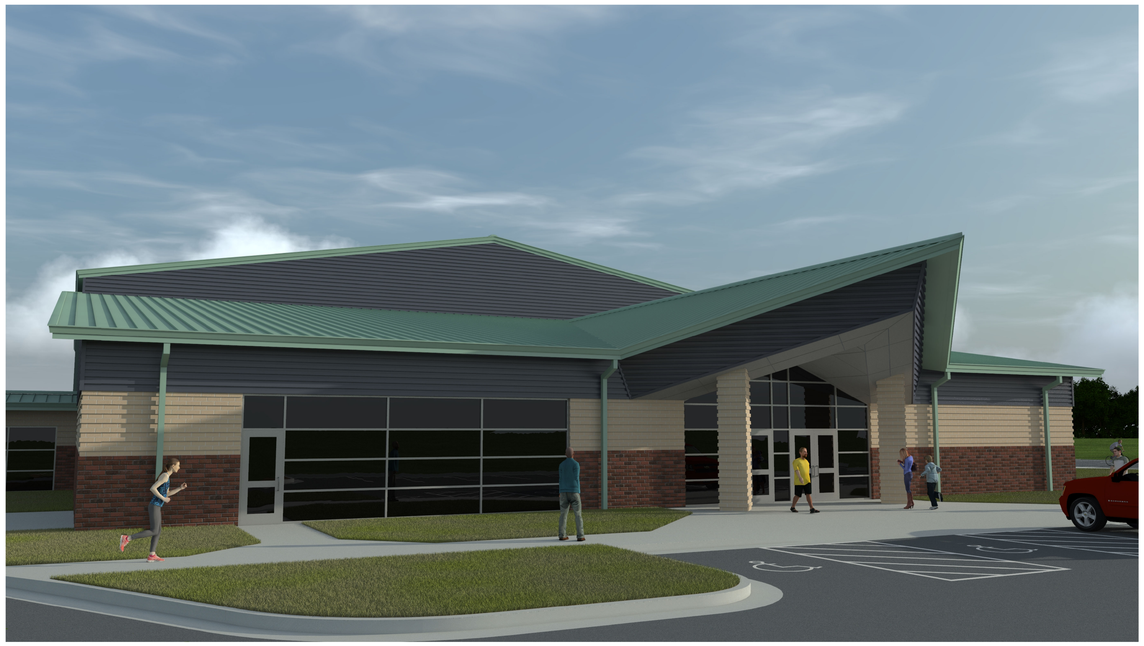
Community Center and Gymnasium for

# Pitt County Office Park Complex

Government Circle / Pitt County / North Carolina



## Hite associates

**ARCHITECTURE / PLANNING / TECHNOLOGY**

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

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QUEEN ENGINEERING & DESIGN, P.A.

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

CIVIL CONSULTANT:

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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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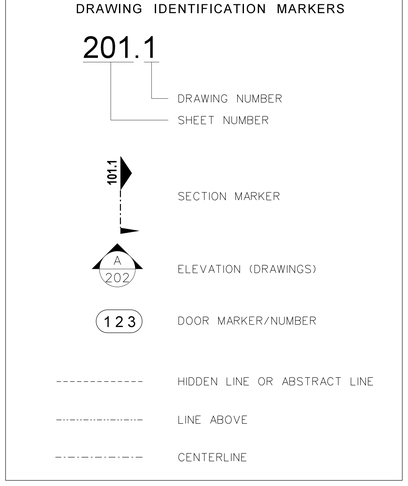
# ABBREVIATIONS

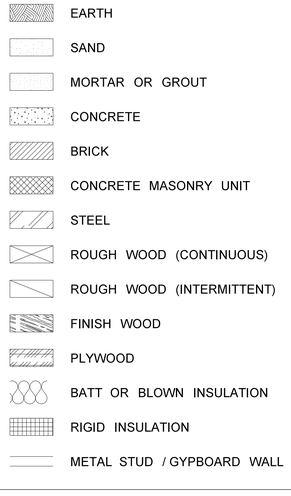
| | | | |
|---|---|---|---|
| AFF | ABOVE FINISH FLOOR | INV | INVERT |
| L | ANGLE | JT | JOINT |
| AB | ANCHOR BOLT | LAV | LAVATORY |
| @ | AT | MAS | MASONRY |
| B/B | BACK TO BACK (CURB) | MAX | MAXIMUM |
| BRG | BEARING | MB | MARKER BOARD |
| BD | BOARD | MET | METAL |
| BC | BRICK COURSE | MC | 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




# DRAWING INDEX


| | |
|---|---|
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| T-1 | INDEX / LEGEND / ABBREVIATIONS |
| BCS-101 | PROJECT DATA |
| LS-001 | LIFE SAFETY PLAN |
| C-001 | COVER / GENERAL NOTES |
| C-002 | OVERALL SITE PLAN |
| | FINAL SURVEY PLAT |
| | EXISTING TOPOGRAPHICAL SURVEY - GARY S. MILLER |
| C-100 | SITE DEMOLITION PLAN |
| C-101 | SITE GEOMETRY PLAN |
| C-102 | SITE GEOMETRY PLAN |
| C-200 | INITIAL SITE EROSION CONTROL PLAN |
| C-201 | INITIAL SITE EROSION CONTROL PLAN |
| C-202 | FINAL SITE EROSION CONTROL PLAN |
| C-203 | FINAL SITE EROSION CONTROL PLAN |
| C-204 | SITE GRADING / DRAINAGE PLAN |
| C-205 | SITE GRADING / DRAINAGE PLAN |
| C-301 | SITE STRUCTURES DETAILS |
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| C-303 | SITE EROSION CONTROL DETAILS |
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| A-104 | ENLARGED TOILET PLANS / INTERIOR ELEVATIONS |
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| PME-001 | PME SITE PLAN |
| P-001 | PLUMBING SCHEDULES / DETAILS / GENERAL NOTES |
| P-101 | SANITARY SEWER PLAN |
| P-102 | DOMESTIC WATER PLAN |
| M-001 | MECHANICAL SCHEDULES / DETAILS / GENERAL NOTES |
| M-101 | MECHANICAL PLAN |
| M-101A | MECHANICAL PLAN - ALTERNATE BID |
| E-001 | ELECTRICAL SCHEDULES / DETAILS / GENERAL NOTES |
| E-101 | POWER PLAN |
| E-101A | POWER PLAN - ALTERNATE BID |
| E-102 | LIGHTING PLAN |
| E-102A | LIGHTING PLAN - ALTERNATE BID |
| FA-001 | FIRE ALARM SCHEDULE / RISER DIAGRAM / DETAILS / NOTES |
| FA-101 | FIRE ALARM PLAN |
| FA-101A | FIRE ALARM PLAN - ALTERNATE BID |
| IT-001 | ICS DETAILS / LEGEND |
| IT-101 | TECHNOLOGY PLAN |
| IT-101A | TECHNOLOGY PLAN - ALTERNATE BID |


| No. | Date | Revision |
|---|---|---|
| | | |

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

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

JAMES GRAY HITE REGISTERED ARCHITECT 3753 GREENVILLE, N.C.

COMMUNITY CENTER AND GYMNASIUM FOR

**Pitt County Office Park**

Government Cir., Greenville, NC 27858

Project No. 22246

Date: 31 July 2023

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 -

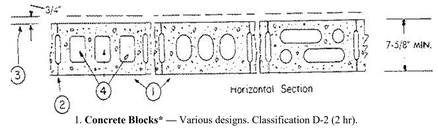
Floor slab on grade
Description of assembly = 4" thick concrete slab
U-Value of total assembly = 0.21
R-Value of insulation = N/A
Horizontal/vertical requirement
slab heated - NO

# 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 |
|---|---|---|

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

HITE ASSOCIATES, P.C. CORPORATE SEAL NUMBER C-0418 GREENVILLE, NORTH CAROLINA
JAMES GRAY HITE REGISTERED ARCHITECT 3754 GREENVILLE, NORTH CAROLINA

COMMUNITY CENTER AND GYMNASIUM FOR
**Pitt County Office Park**
Government Ctr., Greenville, NC 27858

Project No. 22246
Date: 31 July 2023
Drawing no. BCS 101

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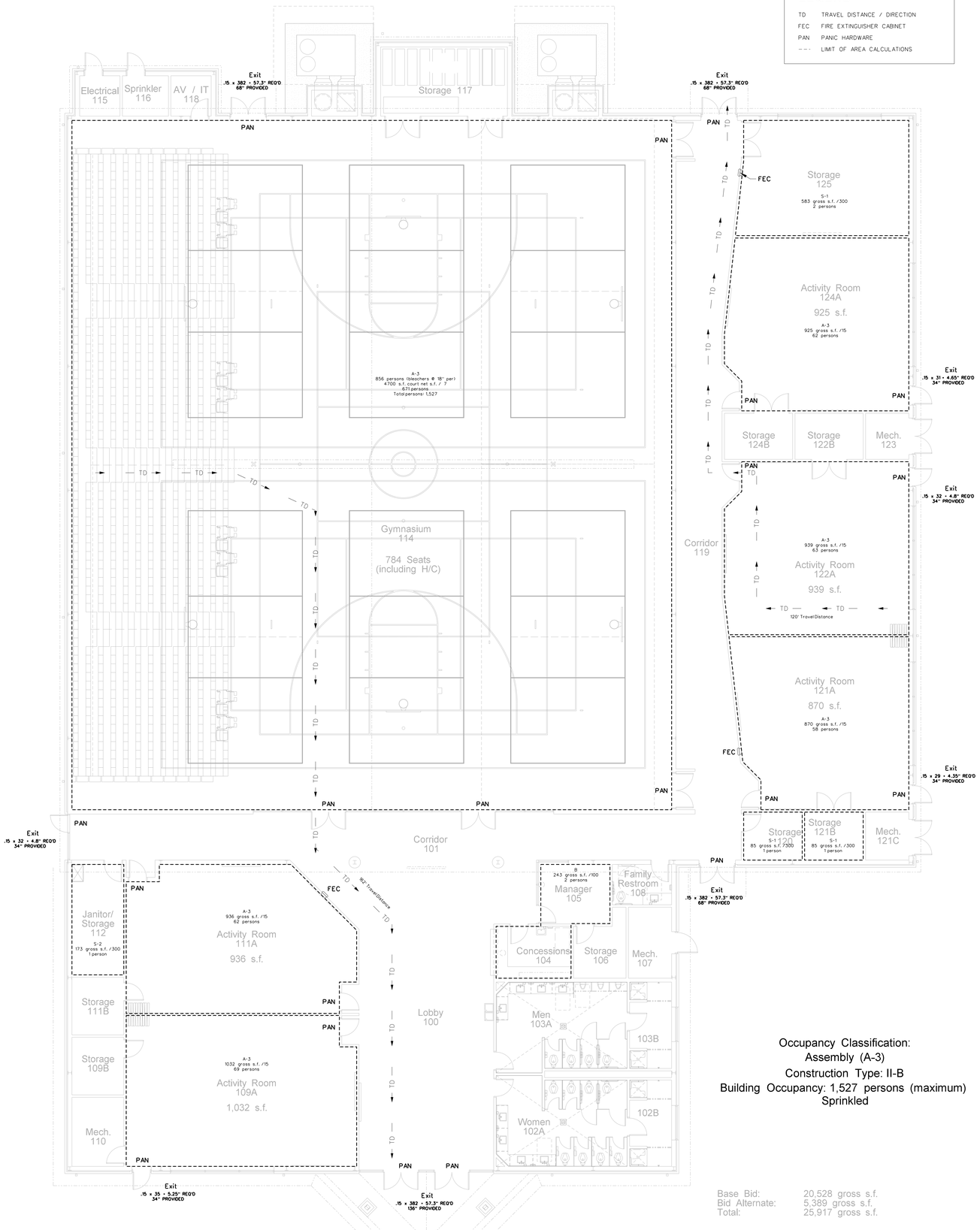
## LEGEND

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

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

COMMUNITY CENTER AND GYMNASIUM FOR

**Pitt County Office Park**

Government Cir., Greenville, NC 27858

Project No. 22246
Date: 31 July 2023
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 NOT 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. (1) 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.
29. ALL EXISTING WATER AND SEWER SERVICES NOT USED FOR THIS PROJECT SHALL BE ABANDONED AT THE CONTRACTORS EXPENSE IN ACCORDANCE WITH GUC REQUIREMENTS
30. THIS PROPERTY IS NOT LOCATED IN A 100 YEAR FLOOD HAZARD AREA ZONE X. PANEL NUMBER 3720468700K, DATED: 7/7/2014.
31. NO WETLANDS EXIST ON THIS PROPERTY
32. 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.
33. +/- 80% STABILIZATION REQUIRED PRIOR TO TEMPORARY EROSION CONTROL MEASEURES BEING REMOVED.
34. NEW BUILDINGS MUST COMPLY WITH NC FIRE CODE SECTION 510 - EMERGENCY RESPONDER RADIO COVERAGE.
35. ALL SITE LIGHTING SHALL COMPLY WITH THE LIGHTING STANDARDS FOR THE CITY OF GREENVILLE.
36. 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.

## PROPERTY INFORMATION

Property Owner: County of Pitt
1717 W. Fifth Street
Greenville, NC 27834

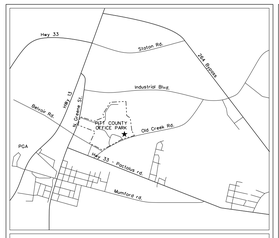
Name of Project: Gymnasium Addition - Pitt County Office Park

Address: 403 Government Circle, Greenville, NC 27858

Proposed Use: Recreational

Building Height 20'-0"

Property Zoning IU-I



Vicinity Map n.t.s.

Land Use Classification LC-2

Deed Book Reference: DB: 256, P.113 (Recorded: DB: T-47, P. 656)

Parcel No. 07735

Map Book: DB22-160

### Site Data

Parcel Acreage: 115.67 (OPIS-GIS) (Deeded Acrage 120.9)

Disturbed Area / Limits of Construction: 5.0 Acres (217,800 sf)

PARKING: (per table 9-4-252 - Schedule of Required Parking Spaces)
(38) - Athletic, Sports recreation, or similar

plus 1 space for associated uses, lounges, restaurants, etc.

| | | |
|---|---|---|
| Employees (10) | | 10 Required Spaces |
| Non-Storage Area | 33,854 s.f. / 300 = | 113 Required Spaces (Including H/C Accessible Spaces) |
| Required Accessible Parking Spaces: | | 5 Required Spaces |
| Required Parking: | | 113 Required Spaces |

NEW PARKING PROVIDED:

| | |
|---|---|
| New Parking (including accessible spaces) | 108 |
| New Accessible Parking | 5 |
| Total Parking Spaces Provided: | 113 |

**SITE DATA**

**Buildings**

| Existing Buildings | Existing (DEMO) Removed S.F. | Existing to Remain S.F. | New Additions S.F. | Total Buildings | (%) of Increase / Decrease |
|---|---|---|---|---|---|
| 306,233 | 0 | 306,233 | 25,601 | 331,834 | 8% |

**Drives and Walks (Impervious)**

| Existing Impv | Existing (DEMO) Removed S.F. | Existing to Remain S.F. | New Drives & Walks S.F. | Total Drives/Wlks | (%) of Increase / Decrease |
|---|---|---|---|---|---|
| 727,128 | 0 | 727,128 | 60,397 | 787,525 | 8% |

**Total Buildings and Drives**

| Existing | Existing (DEMO) Removed S.F. | Existing to Remain S.F. | New Drives & Walks S.F. | Total | (%) of Increase / Decrease |
|---|---|---|---|---|---|
| 1,033,361 | 0 | 1,033,361 | 85,998 | 1,119,359 | 8% |

**Total Impervious Coverage**

| Existing | Site Area | Existing Coverage | New Total S.F. | Coverage | (%) of Increase / Decrease |
|---|---|---|---|---|---|
| 1,033,361 | 5,266,404 | 20% | 1,119,359 | 21% | 2% |

| No. | Date | Revision |
|---|---|---|
| 1 | 8-2-23 | REVISED PER CITY OF GREENVILLE 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

COMMUNITY CENTER AND GYMNASIUM FOR
# Pitt County Office Park
Government Cir., 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. 22246
Date: 31 July 2023
Drawing no. C 001

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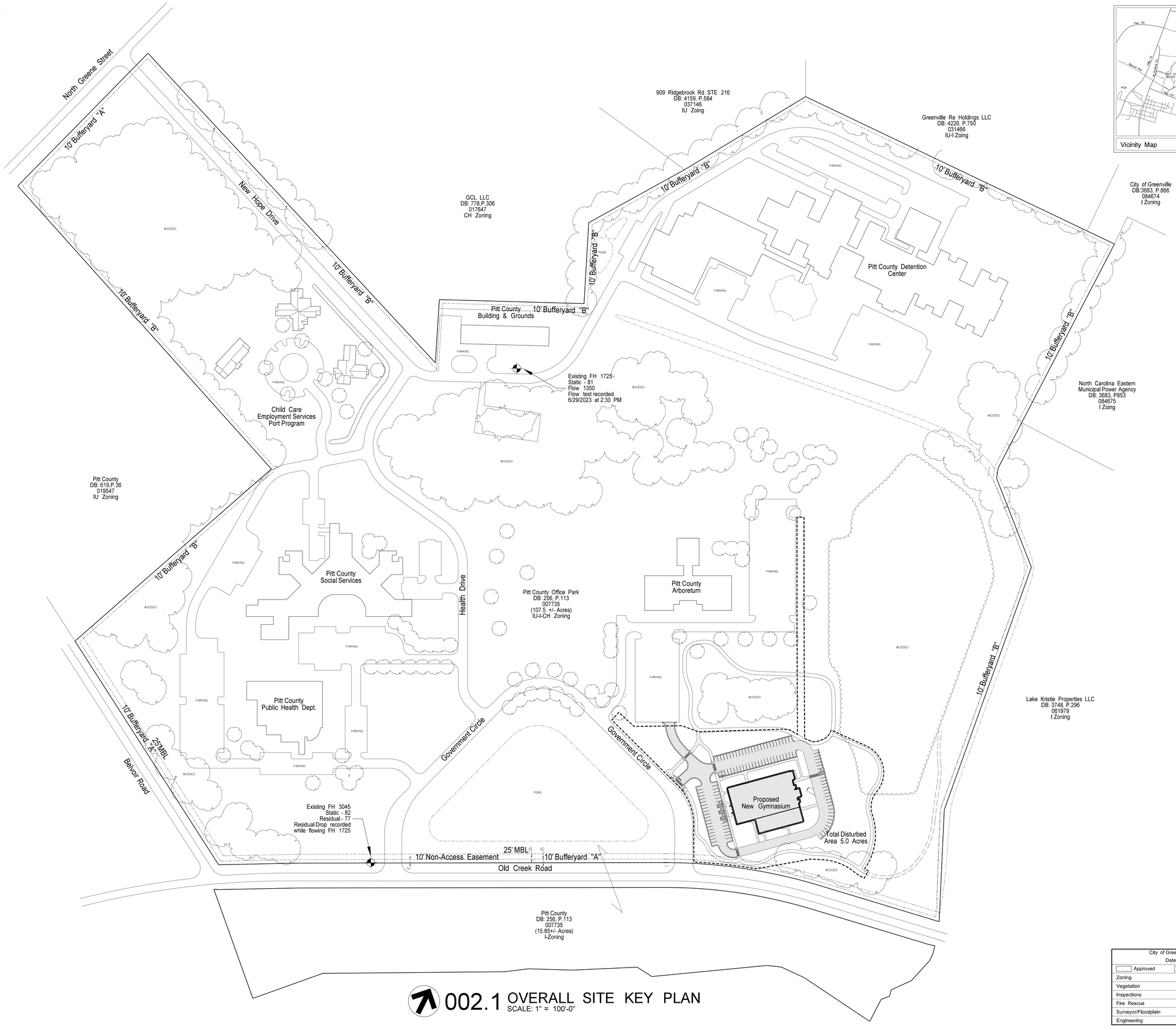
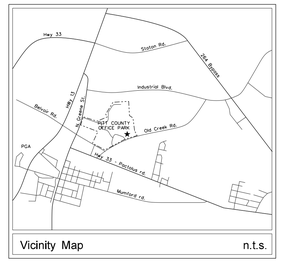



002.1 OVERALL SITE KEY PLAN
SCALE: 1" = 100'-0"




Vicinity Map n.t.s.

| No. | Date | Revision |
|---|---|---|
| 1 | 8-2-23 | REVISED PER CITY OF GVL/NCDOT COMMENTS |

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

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

CIVIL ENGINEERING CONSULTANT:
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(252)-714-3002

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 21234 J. STEPHEN JANOWSKI

COMMUNITY CENTER AND GYMNASIUM FOR

# Pitt County Office Park

Government Cir., 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. 22246

Date: 31 July 2023

Drawing no. C 002

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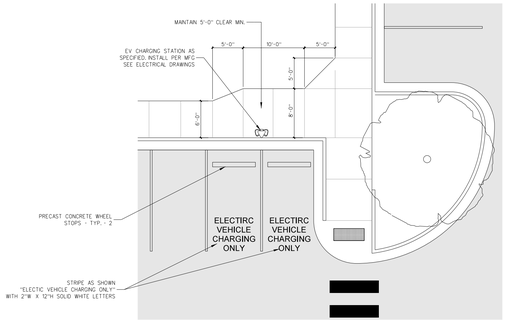
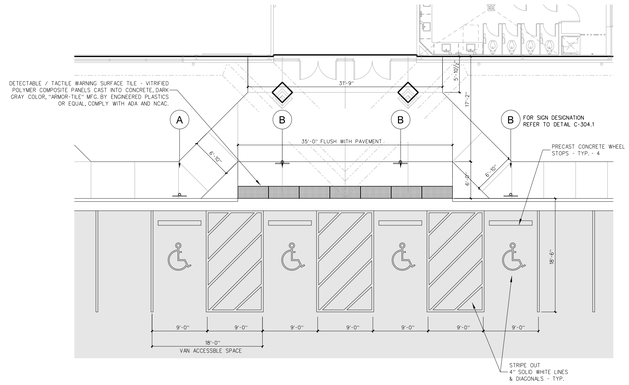
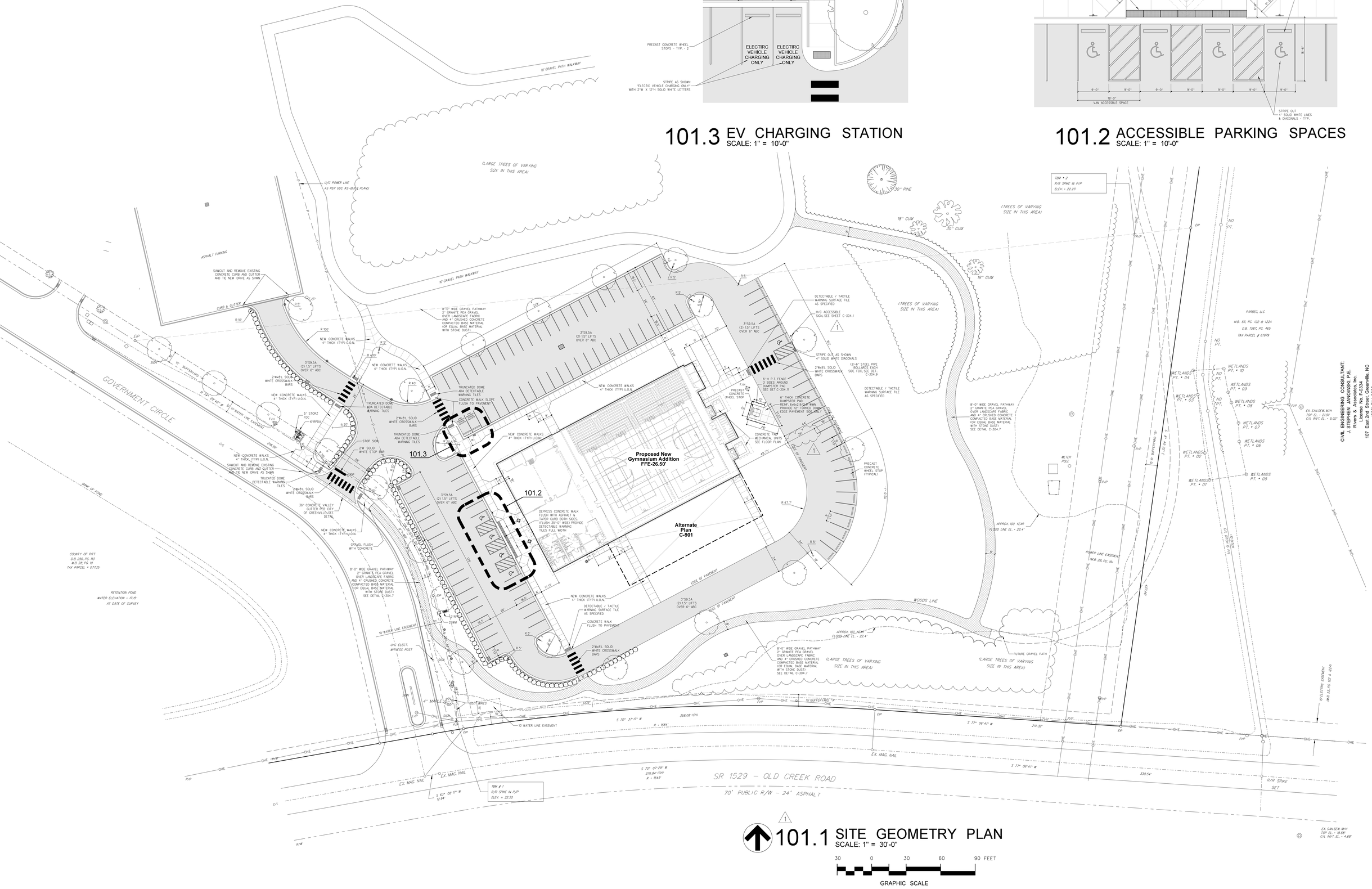



## 101.3 EV CHARGING STATION
SCALE: 1" = 10'-0"




## 101.2 ACCESSIBLE PARKING SPACES
SCALE: 1" = 10'-0"




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

30 0 30 60 90 FEET
GRAPHIC SCALE

| No. | Date | Revision |
|---|---|---|
| 1 | 8-2-23 | REVISED PER CITY OF GREENVILLE COMMENTS |

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HITE ASSOCIATES, P.C. CORPORATE NUMBER C-4118 — NORTH CAROLINA BOARD OF EXAMINERS FOR ENGINEERING AND SURVEYING

COMMUNITY CENTER AND GYMNASIUM FOR
# Pitt County Office Park
Government Cir., Greenville, NC 27858

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107 East 2nd Street, Greenville, NC
(252)-714-3002

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 12324 J. STEPHEN JANOVSKI

| | |
|---|---|
| Project No. | 22246 |
| Date: | 31 July 2023 |
| Drawing no. | C 101 |

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## Temporary Skimmer Basin No. 1

| Discharge Calculation | | |
|---|---|---|
| 2.91 | Disturbed Area (Acres) | |
| 0.35 | Rational C | |
| 10 | Time of Concentration (min) | |
| 6.43 | Intensity (in/hr) Atlas 14 | |
| 6.55 | Peak Flow from 10-year Storm (cfs) | |

| SKIMMER | |
|---|---|
| 3 | Skimmer Size (inches) |
| 0.25 | Head on Skimmer (ft) |
| 1.25 | Orifice Size (1/4 inch increments) |
| 2.91 | Dewatering Time (days) |
| | Suggest about 3 days |

| Dimension Calculation | | Skimmer Size |
|---|---|---|
| 5,238 | Required Volume ($ft^3$) = 1800 x DA | (inches) |
| 2,128 | Required Surface Area ($ft^2$) = 325 * Q(cfs) | 1.5 |
| 32.6 | Suggested Width (ft) | 2 |
| 65.2 | Suggested Length (ft) | 2.5 |
| 35 | Trial Top Width at Spillway Invert (ft) | 3 |
| 70 | Trial Top Length at Spillway Invert (ft) | 4 |
| 2 | Trial Side Slope Ratio Z:1 | 5 |
| 2.75 | Trial Depth (ft) | 6 |
| 24 | Bottom Width (ft) | 8 |
| 59 | Bottom Length (ft) | |
| 1,416 | Bottom Area ($ft^2$) | |
| 5,260 | Actual Volume ($ft^3$) | Okay |
| 2,450 | Actual Surface Area ($ft^2$) | Okay |

| Spillway Calculation | | |
|---|---|---|
| 12 | Trial Weir Length (ft) | |
| 1 | Trial Depth of Flow (ft) | |
| 36.0 | Spillway Capacity (cfs) | Okay |
| 0.32 | Actual Depth (ft) | |
| 1.70 | Velocity (cfs) | |
| 22.50 | Spillway Top Elev (ft) | |
| 22.82 | 10-yr WSEL (ft) | |
| 24.00 | Basin Top | |
| 1.18 | Freeboard | Okay |

## SWALE CALCULATIONS forTemporary Swale #1

### Swale in temporary condition

Outlet Based on 10 year storm

Total watershed area (Ac): 0.98

| Land Type | | Rational C | CN | Acres |
|---|---|---|---|---|
| Area Impervious | | 0.95 | 98 | 0.000 |
| denuded with temporary seeding | | 0.35 | 73 | 0.980 |
| Total watershed area | | | | 0.980 |
| Composite | | 0.35 | | |

| | Overland | Channelized |
|---|---|---|
| Hydraulic Length (ft) | 280 | 360 |
| Vertical Relief (ft) | 2.00 | 2.00 |

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

| | Overland | Channelized | Total | |
|---|---|---|---|---|
| Time (min) | 8.02 | 1.07 | 10.00 | If Tc<10, use 10 min |
| Travel Factor | 2 | 0.2 | | |

| | | | | |
|---|---|---|---|---|
| Rainfall Intensity = | I = g/(h+1) | 6.4 | inches per hr | g 206 |
| Peak Discharge = | Q=CIA | 2.2 | cfs | h 22.1 |

| Right Side Slope | Left Side Slope | n= | Slope | Channel Velocity | Flow Depth |
|---|---|---|---|---|---|
| 2.00 | 2.00 | 0.022 | 0.56% | 2.31 fps | 0.69 ft |

| Tractive Force | | | | | |
|---|---|---|---|---|---|
| Td= YDS (lb/sf) | 0.239 | use temporary liner jute net | Td= | 0.45 lb/sf | ok |

## SWALE CALCULATIONS forTemporary Swale #2

### Swale in temporary condition

Outlet Based on 10 year storm

Total watershed area (Ac): 1.34

| Land Type | | Rational C | CN | Acres |
|---|---|---|---|---|
| Area Impervious | | 0.95 | 98 | 0.000 |
| denuded with temporary seeding | | 0.35 | 73 | 1.340 |
| Total watershed area | | | | 1.340 |
| Composite | | 0.35 | | |

| | Overland | Channelized |
|---|---|---|
| Hydraulic Length (ft) | 360 | 260 |
| Vertical Relief (ft) | 2.00 | 2.00 |

Time of Concentration: $T_c = \frac{1.8(1.1-C)\sqrt{L}}{S^{0.33}}$ TREES OF VARYING SIZE IN THIS AREA / 128

| | Overland | Channelized | Total | |
|---|---|---|---|---|
| Time (min) | 10.73 | 0.74 | 11.46 | If Tc<10, use 10 min |
| Travel Factor | 2 | 0.2 | | |

| | | | | |
|---|---|---|---|---|
| Rainfall Intensity = | I = g/(h+1) | 6.1 | inches per hr | g 206 |
| Peak Discharge = | Q=CIA | 2.9 | cfs | h 22.1 |

| Right Side Slope | Left Side Slope | n= | Slope | Channel Velocity | Flow Depth |
|---|---|---|---|---|---|
| 2.00 | 2.00 | 0.022 | 0.77% | 2.77 fps | 0.72 ft |

| Tractive Force | | | | | |
|---|---|---|---|---|---|
| Td= YDS (lb/sf) | 0.346 | use temporary liner jute net | Td= | 0.45 lb/sf | ok |

## GENERAL NOTES

1. EROSION AND SEDIMENT CONTROL (E&SC) PERMIT AND A CERTIFICATE OF COVERAGE (COC) MUST BE OBTAINED BEFORE AND LAND DISTURBING ACTIVITIES OCCUR
2. WHEN THE PROJECT IS COMPLETE, THE PERMITTEE SHALL CONTACT DEMLR TO CLOSE OUT THE E&SC PLAN.AFTER DEMLR INFORMS THE PERMITTEE OF THE PROJECT CLOSE OUT, VIA INSPECTION REPORT, THE PERMITTEE SHALL VISIT DEQ.NC.GOV/NCG01 TO SUBMIT AN ELECTRONIC NOTICE OF TERMINATION (E-NOT). A $100 ANNUAL GENERAL PERMIT FEE WILL BE CHARGED UNTIL THE E-NOT HAS BEEN FILLED OUT.
3. THE CONTRACTOR SHALL CONDUCT SELF-INSPECTIONS OF THE EROSION AND SEDIMENTATION CONTROL MEASURES AND COMPETE THE INSPECTION AND MONITORING RECORDS FOR ACTIVITIES UNDER STORMWATER GENERAL PERMIT NCG010000 AND SELF-INSPECTION RECORDS FOR LAND DISTURBING ACTIVITIES FROM PER G.S. 113A-54.1 TWELVE MONTHS OF COMPLETE INSPECTION FORMS SHALL BE KEPT ON- SITE AND AVAILABLE FOR INSPECTION AT ALL TIMES.
4. SELF-INSPECTIONS FOR EROSION AND SEDIMENTATION CONTROL MEASURES ARE TO BE PERFORMED AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF EVERY RAIN EVENT OF GREATER THAN 1 INCH. ANY NEEDED REPAIRS SHALL BE MADE IMMEDIATELY TO MAINTAIN MEASURES AS DESIGNED. ALL ESC MEASURES SHALL BE MAINTAINED AS SPECIFIED IN THE CONSTRUCTION DETAILS ON THIS PLAN. A RAIN GAUGE SHALL BE INSTALLED AT THE PROJECT SITE FOR MONITORING
5. EROSION AND SEDIMENT CONTROL (E&SC) PERMIT AND A CERTIFICATE OF COVERAGE (COC) MUST BE OBTAINED BEFORE AND LAND DISTURBING ACTIVITIES OCCUR.*
6. WHEN THE PROJECT IS COMPLETE, THE PERMITTEE SHALL CONTACT DEMLR TO CLOSE OUT THE E&SC PLAN. AFTER DEMLR INFORMS THE PERMITTEE OF THE PROJECT CLOSE OUT, VIA INSPECTION REPORT, THE PERMITTEE SHALL VISIT DEQ.NC.GOV/NCG01 TO SUBMIT AN ELECTRONIC NOTICE OF TERMINATION (E-NOT). A $100 ANNUAL GENERAL PERMIT FEE WILL BE CHARGED UNTIL THE E-NOT HAS BEEN FILLED OUT.*
7. PERIMETER MEASURES MUST BE LEFT IN PLACE UNTIL ALL UPLAND AREAS ARE PERMANENTLY STABILIZED. AFTER SITE IS PERMANENTLY STABILIZED, REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND PROVIDE PERMANENT SEEDING WHERE TEMPORARY MEASURES HAVE BEEN REMOVED AND GROUND COVER IS NOT ADEQUATE. SEDIMENT BASINS MAY NOT BE REMOVED OR CONVERTED TO PERMANENT BMPS UNTIL ALL UPLAND AREAS ARE PERMANENTLY STABILIZED.
8. ALL SLOPES ARE TO BE 3:1 OR FLATTER AND SHALL BE SEEDED WITHIN 14 CALENDAR DAYS OF THE COMPLETION OF ANY PHASE OF GRADING IN ACCORDANCE WITH REF: NCG010000 NPDES GENERAL PERMIT.

## New Stabilization Timeframes

| Site Area Description | Stabilize | Timeframe Exceptions |
|---|---|---|
| Perimter Dikes, Swales, Ditches, Slopes | 7 Days | None |
| High Qualkity Water (HQW) Zones | 7 Days | None |
| Slopes Steeper than 3:1 | 7 Days | If slopes are 10'-0" or l;ess in length and are not steeper than 2:1, 14 days are allowed |
| Slopes 3:1 or Flatter | 14 Days | 7 days for slopes greater than 50'-0" in length |
| All other areas with slopes flatter than 4:1 | 14 Days | None, except for perimters and HQW Zones. |

North Carolina 811
www.ncs811.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 (811 OR 1-800-632-4949) AT LEAST 48 HOURS BEFORE COMMENCING CONSTRUCTION.IN ORDER THAT EXISTING UTILITIES IN THE AREA MAY BE FLAGGED AND STAKED,ALSO CONTACT THE SCHOOL MAINTENANCE DEPARTMENT TO LOCATE ANY PRIVATE UTILITIES IN THE AREA.CONTRACTOR SHALL USE ALL CARE NECESSARY WHEN DIGGING IN AREA IN HAND OR BY DIRECTED TO CONTAIN UNDERGROUND UTILITIES INCLUDING HAND DIGGING.

## EROSION CONTROL LEGEND

- LIMITS OF CONSTRUCTION
- TEMPORARY DIVERSION SWALE (DIRECTION OF FLOW)
- TEMPORARY ROCK CHECK DAM
- TEMPORARY SEDIMENT FENCE LIMITS OF CONSTRUCTION / DISTURBANCE
- EXCELSIOR MATTING DITCH LINER
- STONE RIP RAP

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

| No. | Date | Revision |
|---|---|---|
| 1 | 8-1-23 | REVISED PER NCDEQ COMMENTS |

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

NORTH CAROLINA ENGINEERING CORPORATION NUMBER C-1918 — HITE ASSOCIATES, P.C. — SEAL 41818 — REGISTERED PROFESSIONAL ENGINEER — GREENVILLE, NC

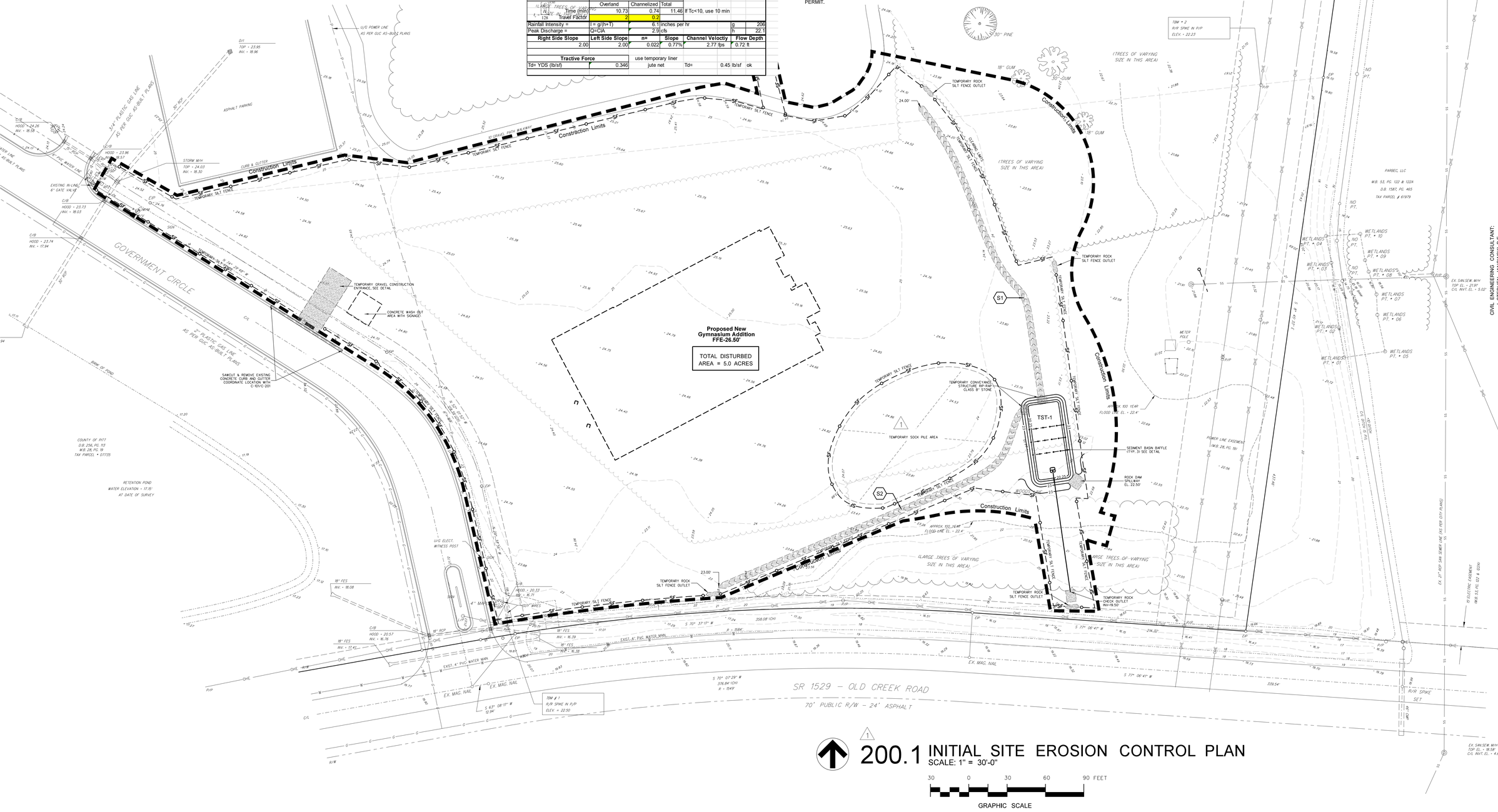
CIVIL ENGINEERING CONSULTANT:
J. STEPHEN JANOWSKI, P.E.
Rivers & Associates, Inc.
License No. F-0334
107 East 2nd Street, Greenville, NC
(252)-714-3002

COMMUNITY CENTER AND GYMNASIUM FOR

# Pitt County Office Park

Government Cir., Greenville, NC 27858

| | |
|---|---|
| Project No. | 22246 |
| Date: | 31 July 2023 |
| Drawing no. | C 200 |




1 200.1 INITIAL SITE EROSION CONTROL PLAN
SCALE: 1" = 30'-0"

30 0 30 60 90 FEET
GRAPHIC SCALE

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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

# 201.2 WATER MAIN STORM DRAIN CROSSING (W-14)

SCALE: None

## 1 EROSION CONTROL LEGEND

- LIMITS OF CONSTRUCTION
- TEMPORARY DIVERSION SWALE (DIRECTION OF FLOW)
- TEMPORARY ROCK CHECK DAM
- TEMPORARY SEDIMENT FENCE LIMITS OF CONSTRUCTION / DISTURBANCE
- EXCELSIOR NETTING DITCH LINER
- STONE RIP RAP

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

## 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 |
| MPS - MAG POINT SET | EIP - EXISTING IRON PIPE | 1" - 2" WATER LINE PROPOSED |
| EOM - 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/S - 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. | +190.00 PROPOSED SPOT ELEVATION |
| TP - TOP OF PAVEMENT | L/P - LIGHT POLE | + 190.00 EXISTING SPOT ELEVATION |
| TW - TOP OF WALK | CB - CATCH BASIN | 24 EXISTING CONTOUR |
| TCW - TOP OF CONCRETE WALK | DI - DROP INLET | 24 PROPOSED CONTOUR |
| TCP - TOP OF CONCRETE PAD | STD - SLAB TOP DROP INLET | FENCE LINE |
| TG - TOP OF GRADE | D.I.P. - DUCTILE IRON PIPE | UTILITY TIE-IN CONNECTION POINT |
| FG - FINISH GRADE | YI - YARD INLET | DIRECTION OF SWALE / FLOW |
| E/P - EDGE OF PAVEMENT | INV - INVERT | |
| CMU - 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 | |

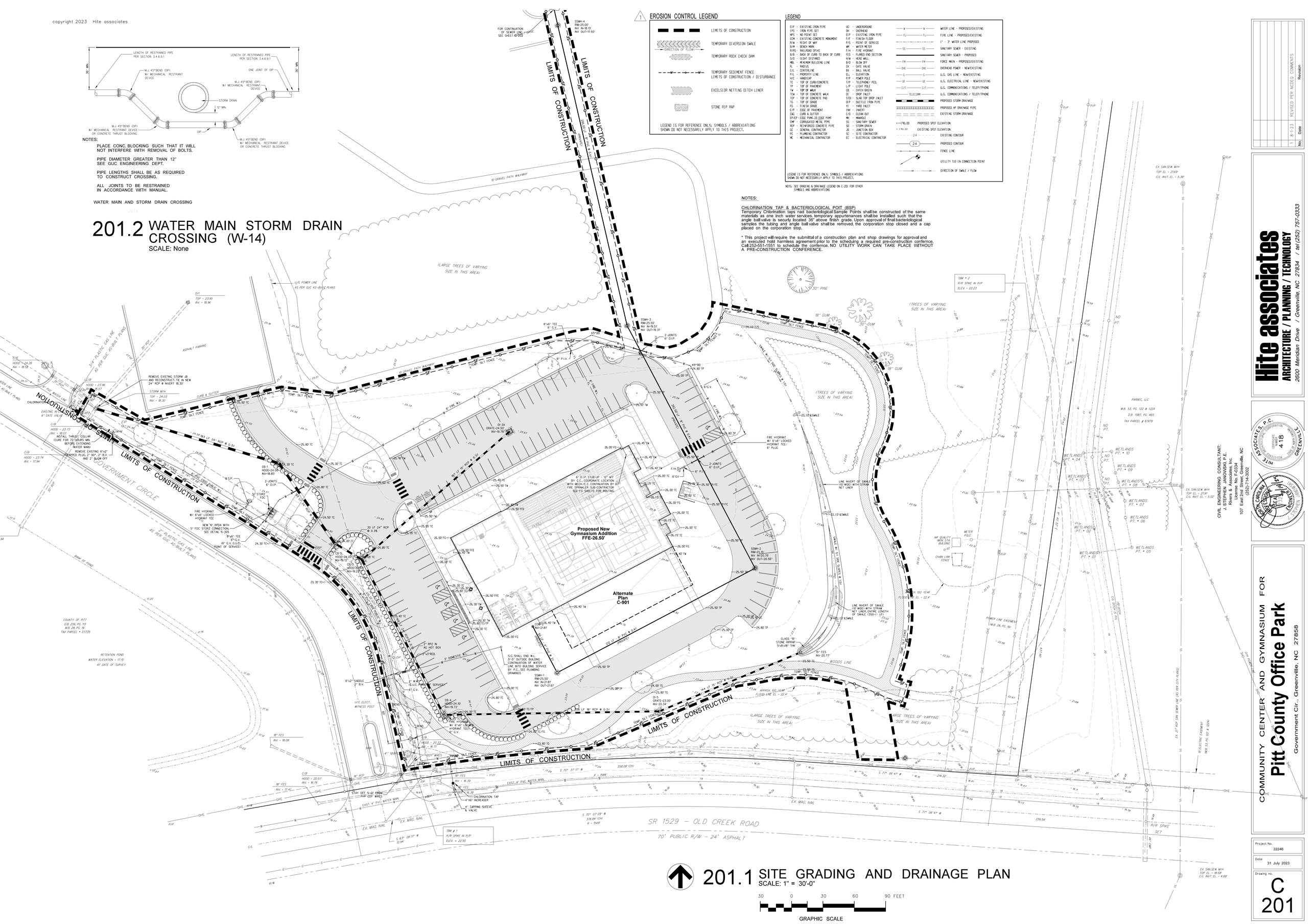
LEGEND IS FOR REFERENCE ONLY; SYMBOLS / ABBREVIATIONS SHOWN DO NOT NECESSARILY APPLY TO THIS PROJECT.

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

NOTES:

CHLORINATION TAP & BACTERIOLOGICAL POIT (BSP)
Temporary Chlorination taps nad 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 securly located 36" above finish grade. Upon approval of final bacteriological samples the tubing and angle ball valve shall be removed, the corporation stop closed and a cap placed on the corporation stop.

* This project will require the submittal of a construction plan and shop drawings for approval and an executed hold harmless agreement prior to the 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.




# 201.1 SITE GRADING AND DRAINAGE PLAN

SCALE: 1" = 30'-0"

30 0 30 60 90 FEET

GRAPHIC SCALE

| No. | Date | Revision |
|---|---|---|
| 1 | 8-1-23 | REVISED PER NCDEQ COMMENTS |

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HITE ASSOCIATES, P.C. — CORPORATE SEAL 4118 — GREENVILLE, N.C.

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

COMMUNITY CENTER AND GYMNASIUM FOR

**Pitt County Office Park**

Government Cir., Greenville, NC 27858

| | |
|---|---|
| Project No. | 22246 |
| Date: | 31 July 2023 |
| Drawing no. | C 201 |

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## 202.1 SITE GRADING AND DRAINAGE PLAN

SCALE: 1" = 30'-0"

30 0 30 60 90 FEET

GRAPHIC SCALE

## 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 - FYRE 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 | TELECOM | 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. | +190.00 | PROPOSED SPOT ELEVATION |
| TP - TOP OF PAVEMENT | L/P - LIGHT POLE | + 190.00 | EXISTING SPOT ELEVATION |
| TW - TOP OF WALK | CB - CATCH BASIN | 24 | EXISTING CONTOUR |
| TCW - TOP OF CONCRETE WALK | DI - DROP INLET | 24 | PROPOSED CONTOUR |
| TCP - TOP OF CONCRETE PAD | STDI - SLAB TOP DROP INLET | | FENCE LINE |
| TG - TOP OF GRADE | DIP - DUCTILE IRON PIPE | | UTILITY TIE-IN CONNECTION POINT |
| FG - FINISH GRADE | YI - 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 | | |

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

## EROSION CONTROL LEGEND

- LIMITS OF CONSTRUCTION
- TEMPORARY DIVERSION SWALE (DIRECTION OF FLOW)
- TEMPORARY ROCK CHECK DAM
- TEMPORARY SEDIMENT FENCE LIMITS OF CONSTRUCTION / DISTURBANCE
- EXCELSIOR NETTING DITCH LINER
- STONE RIP RAP

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

| No. | Date | Revision |
|---|---|---|
| | | |

**Hite associates**
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HITE ASSOCIATES, P.C. — CORPORATE NUMBER 418 — REGISTERED ARCHITECTURAL CORPORATION — GREENVILLE, NORTH CAROLINA

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT SEAL 2334 CHRISTOPHER T. GRIFFIN

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License No. F-0334
107 East 2nd Street, Greenville, NC
(252)-714-3002

COMMUNITY CENTER AND GYMNASIUM FOR

# Pitt County Office Park

Government Cir., Greenville, NC 27858

| | |
|---|---|
| Project No. | 22246 |
| Date: | 31 July 2023 |
| Drawing no. | C 202 |

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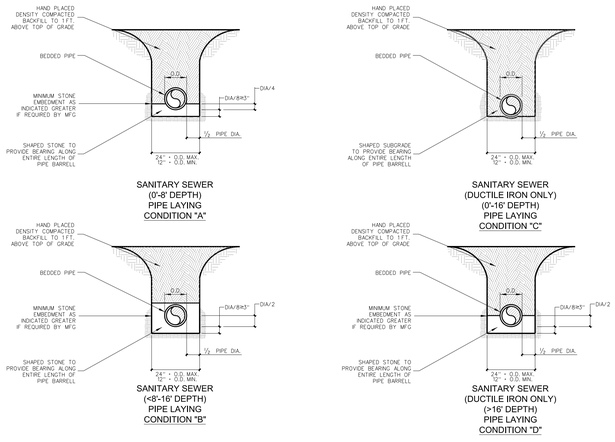



SEWER PIPE LAYING CONDITIONS

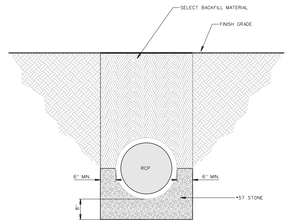
NOT TO SCALE

D.I. SEWER PIPE LAYING CONDITIONS

NOT TO SCALE

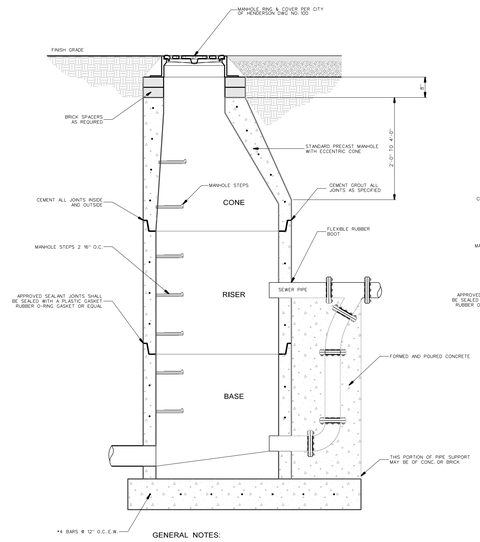
# 301.8 PIPE LAYING CONDITIONS

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

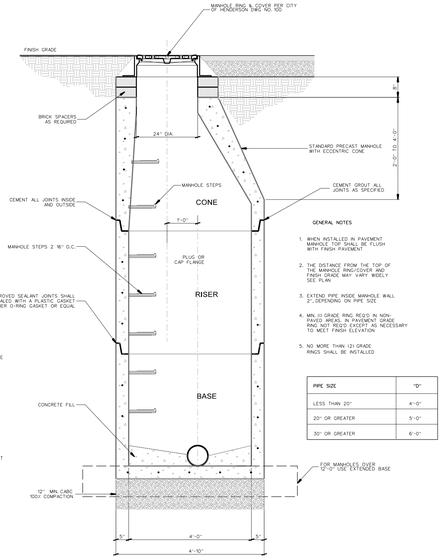
ALL SOLID BOXES SHALL MEET H-20 LOADING TO A DEPTH OF 15'-0".

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 (2) 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

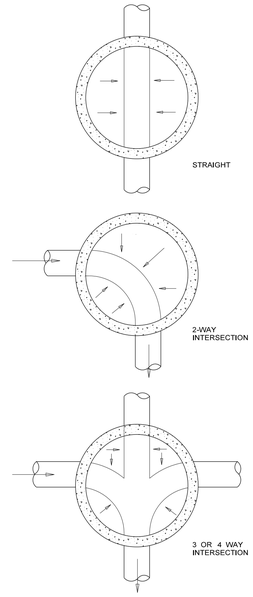
ALL UNITS SHALL BE POURED MONOLITHICLY AND STEAM CURED.

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

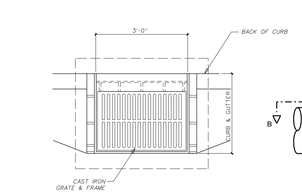
INVERTS TO BE SHAPED ACCURATELY TO A SMOOTH SEMI-CIRCLE FINISH CONFORMING TO THE INSIDE CONTOUR OF THE ADJACENT SEWER SECTIONS. ALL ENTERING BRANCHES AND CHANGES IN DIRECTIONS SHALL BE FORMED BY CIRCULAR CURVE IN THE INVERT OF AS LARGE A RADIUS AS THE SIZE OF MANHOLE WILL PERMIT. CHANGES OF SIZE AND 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

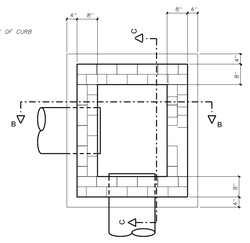
SCALE: 1/2" = 1'-0"




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"



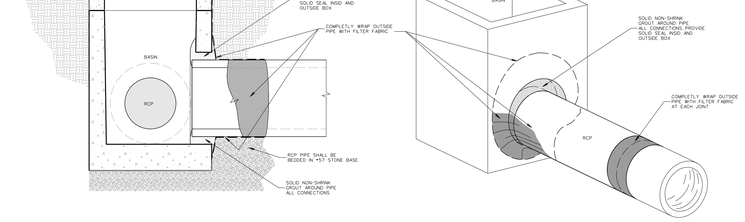

SECTION "C-C"




SECTION "B-B"

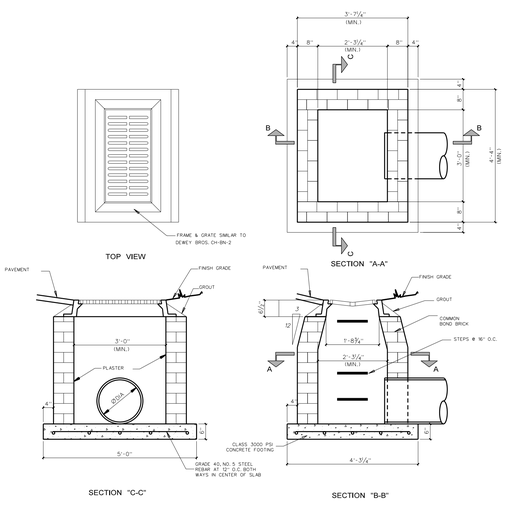
# 301.5 MASONRY CATCH BASIN DETAIL

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




# 301.4 RCP CONNECTION @ BASIN

SCALE: NONE




TOP VIEW

SECTION "A-A"



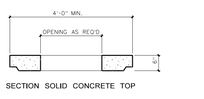

SECTION "C-C"

SECTION "B-B"

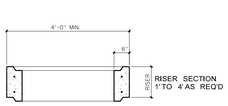
DIMENSION VARY FOR PIPE LARGER THAN 24"

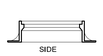
# 301.3 MASONRY DROP INLET DETAIL

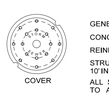
SCALE: 1/2" = 1'-0"

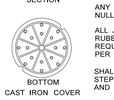



SECTION SOLID CONCRETE TOP






GENERAL NOTES:

CONCRETE SHALL BE 4000 PSI MINIMUM

REINFORCING STEEL ASTM A-615 GRADE 60

STRUCTURES SHALL MEET NCDOT APPROVAL TO 10'IN DEPTH

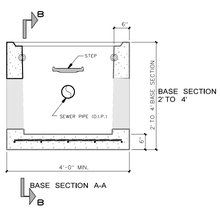
ALL SOLID BOXES SHALL MEET H-20 LOADING TO A DEPTH OF 15'-0".

PRECAST BOXES SHALL MEET ALL NCDOT STANDARDS

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

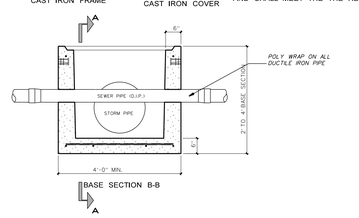
ALL JOINTS TO BE SEALED WITH BUTYL RUBBER JOINT SEALANT CONFORMING TO THE REQUIREMENTS OF ASTM C990, OR MORTAR AS PER NCDOT REQUIREMENTS.

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




BASE SECTION A-A

BASE SECTION 2'TO 4'



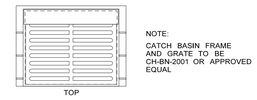

BASE SECTION B-B

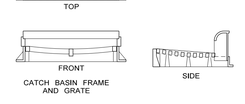
# 301.2 CONFLICT/JUNCTION BOX DETAIL

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

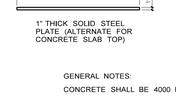
NOTE:

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.




SECTION SOLID CONCRETE TOP



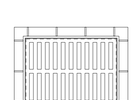

1" THICK SOLID STEEL PLATE (ALTERNATE FOR CONCRETE SLAB TOP)




NOTE:

CATCH BASIN FRAME AND GRATE TO BE CH-BN-2001 OR APPROVED EQUAL

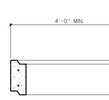
CATCH BASIN FRAME AND GRATE

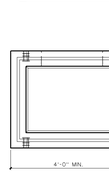



NOTE:

DROP INLET FRAME AND GRATE SIMILAR TO CH-BN-2001 OR APPROVED EQUAL

DROP INLET FRAME AND GRATE




TOP BASE SECTION

GENERAL NOTES:

CONCRETE SHALL BE 4000 PSI MINIMUM

REINFORCING STEEL ASTM A-615 GRADE 60

STRUCTURES SHALL MEET NCDOT APPROVAL TO 10'IN DEPTH

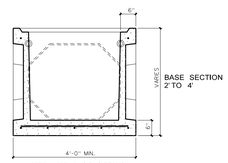
ALL SOLID BOXES SHALL MEET H-20 LOADING TO A DEPTH OF 15'-0".

PRECAST BOXES SHALL MEET ALL NCDOT STANDARDS

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

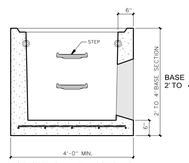
ALL JOINTS TO BE SEALED WITH BUTYL RUBBER JOINT SEALANT CONFORMING TO THE REQUIREMENTS OF ASTM C990, OR MORTAR AS PER NCDOT REQUIREMENTS.

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

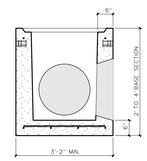



ALTERNATE BASE SECTION WITH KNOCKOUTS

BASE SECTION 2'TO 4'




BASE SECTION WITH CORED OR CAST OPENINGS




# 301.1 PRECAST STORM DRAINAGE STRUCTURE DETAIL

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

NOTE: DIMENSIONS VARY FOR PIPE LARGER THAN 24"

| No. | Date | Revision |
|---|---|---|
| | | |

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

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License No. F-0334
107 East 2nd Street, Greenville, NC
(252)-714-3002

COMMUNITY CENTER AND GYMNASIUM FOR

**Pitt County Office Park**

Government Cir., Greenville, NC 27858

Project No. 22246

Date: 31 July 2023

Drawing no. C 301

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## CONSTRUCTION SCHEDULE

1. OBTAIN PLAN APPROVALS AND ALL APPLICABLE PERMITS.NOTE: BORROW SHALL COME FROM A SITE WITH AN APPROVED EROSION CONTROL PLAN AND ALL WASTE SHALL BE DISPOSED OF ON A SITE WITH AN APPROVED EROSION CONTROL PLAN
2. FLAG LIMITS OF ROUGH GRADING.
3. HOLD PRECONSTRUCTION MEETING WITH CONTRACTOR, EROSION CONTROL ADMINISTRATOR (252-946-3900), PROJECT ENGINEER AND OWNER BEFORE WORK BEGINS.
4. INSTALL THE PERIMETER SEDIMENT FENCES AS THE FIRST CONSTRUCTION ACTIVITY.
5. INSTALL DRIVEWAY PIPE AND TEMPORARY GRAVEL CONSTRUCTION ENTRANCE.
6. INSTALL CONCRETE WASHOUT AREA WITH SIGN.
7. INSTALL TEMPORARY SEDIMENT BASIN AND TEMPORARY DIVERSION SWALE PER PLAN.
8. 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.
9. ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES MAY BE REQUIRED BY THE STATE OR OWNER IF DEEMED NECESSARY.
10. AFTER SITE IS STABILIZED, REMOVE ALL TEMPORARY MEASURES, FINE GRADE DISTURBED AREAS, AND INSTALL PERMANENT VEGETATION ON THE DISTURBED AREAS.
11. MAINTAIN PERMANENT VEGETATION BY TOP DRESSING WITH 700 LBS PER ACRE OF FERTILIZER EVERY 6 MONTHS UNTIL THE COMPLETION OF THE PROJECT.
12. WITHIN 6" OF FINAL GRADE, RE-DISTRIBUTE 6" OF TOPSOIL.
13. FINE GRADE, PERMANENTLY SEED AND MULCH ALL LANDSCAPED AREAS.
14. 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.
5. ALL DEWATERING OPERATIONS SHALL BE FILTERED PRIOR TO LEAVING THE SITE. NOT DIRECT PUMPING SHALL BE ALLOWED INTO THE EXISTING STORM WATER INFRASTRUCTURE AND/OR ENVIRONMENTALLY SENSITIVE AREAS.

## 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

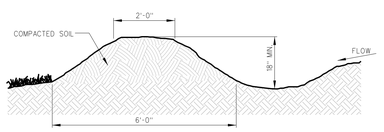
APRIL 15 - AUGUST 15

## SEED BED PREPARATION AND MULCHING SCHEULE

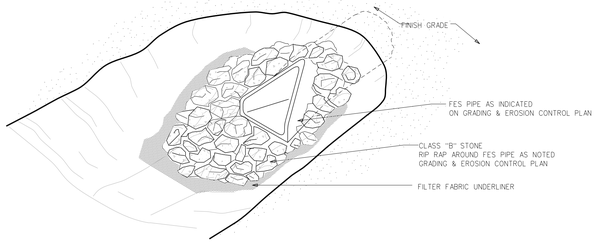
COMPLETE GRADING BEFORE PREPARING SEEDBEDS, AND INSTALL ALL NECESSARY EROSION CONTROL PRACTICES SUCH AS SWALES AND BASINS. MINIMIZE STEEP SLOPES. IF SOILS HAVE BECOME COMPACTED DURING GRADING, LOOSEN THEM TO A DEPTH OF 6-8 INCHES USING A RIPPER, HARROW, OR CHISEL PLOW. IF RAINFALL CAUSES THE SURFACE 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.

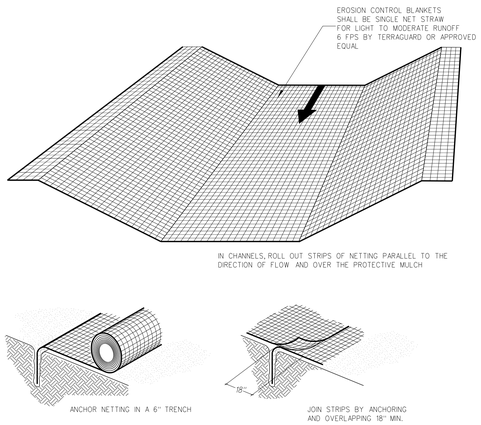
| | |
|---|---|
| LIME | 2 TONS/AC |
| 10-10-20 | 1000 LBS/AC |
| 0-20-0 | 500 LBS/AC |
| STRAW MULCH | 2 TON/AC (AFTER SEEDING) |
| ASPHALT TACK | 400 GAL/TON OF MULCH |



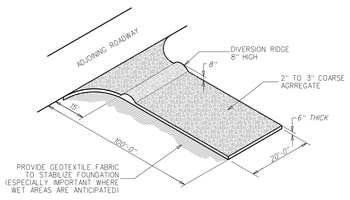

## 302.9 TEMPORARY EARTHEN DIVERSION
SCALE: NONE




## 302.8 TYPICAL RIP RAP DETAIL
SCALE: NONE



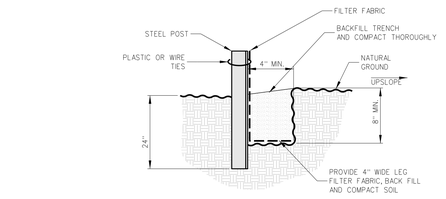

## 302.4 TEMPORARY NET LINER DETAIL
SCALE: NONE

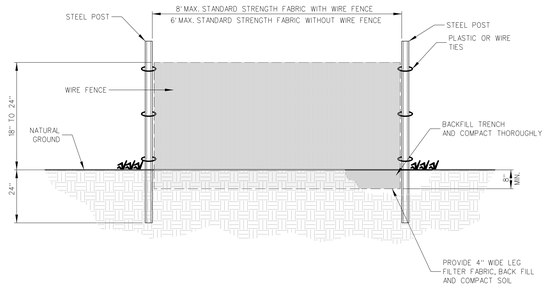



### CONSTRUCTION ENTRANCE NOTES:

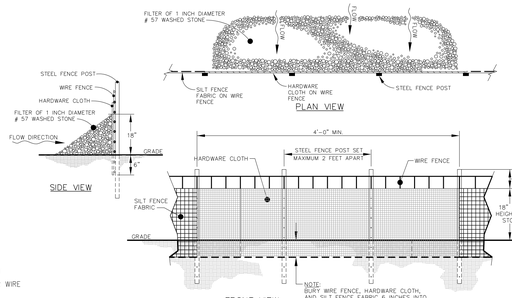
1. 2" TO 3" COARSE AGGREGATE STONE SHALL BE USED, PAD TO BE 100'x20'x6" AT A MINIMUM
2. TURNING RADIUS SUFFICIENT TO ACCOMMODATE LARGE TRUCKS IS TO BE PROVIDED.
3. ENTRANCES SHOULD BE LOCATED TO PROVIDE FOR MAXIMUM UTILITY BY ALL CONSTRUCTION VEHICLES.
4. MUST BE MAINTAINED IN A CONDITION WHICH WILL 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




## 302.7 TEMPORARY SILT FENCE
SCALE: NONE



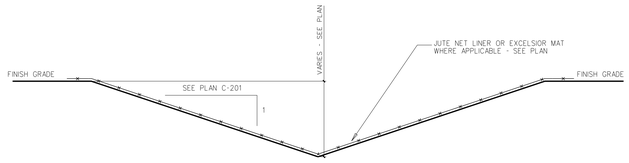

NOTES:

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.

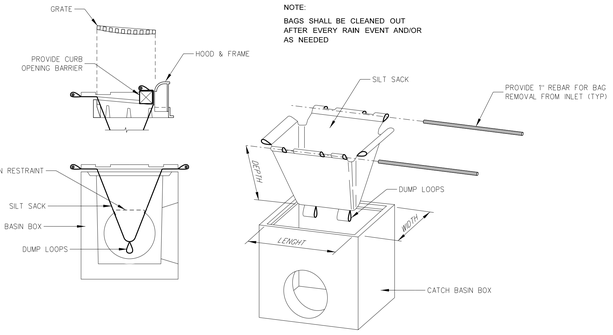
MAINTENANCE NOTES:

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

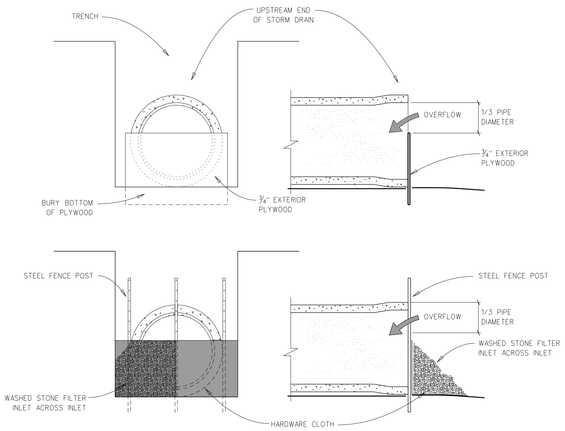



## 302.6 DITCH/ SWALE CROSS-SECTION
SCALE: NONE




## 302.5 STANDARD SEDIMENT SILT BAG
SCALE: NONE

SCALE: NONE

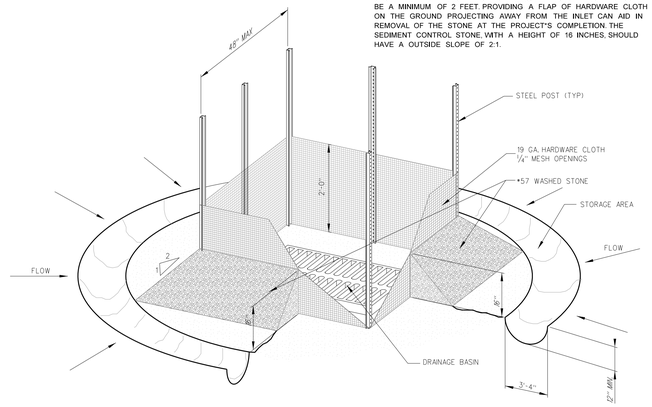



*PLYWOOD INLET PROTECTION AND STONE FILTER PROTECTION*

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

CONSTRUCTION NOTES:

1. UNIFORMLY GRADE 12' A SHALLOW DEPRESSION APPROACHING THE INLET.
2. 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.
3. 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 ½ 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 FOR DETAILED CONSTRUCTION AND MAINTENANCE NOTES

| No. | Date | Revision |
|---|---|---|
| 1 | 8-1-23 | REVISED PER NCDEQ COMMENTS |

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COMMUNITY CENTER AND GYMNASIUM FOR
**Pitt County Office Park**
Government Cir., Greenville, NC 27858

Project No. 22246
Date: 31 July 2023
Drawing no. C 302

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## 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.

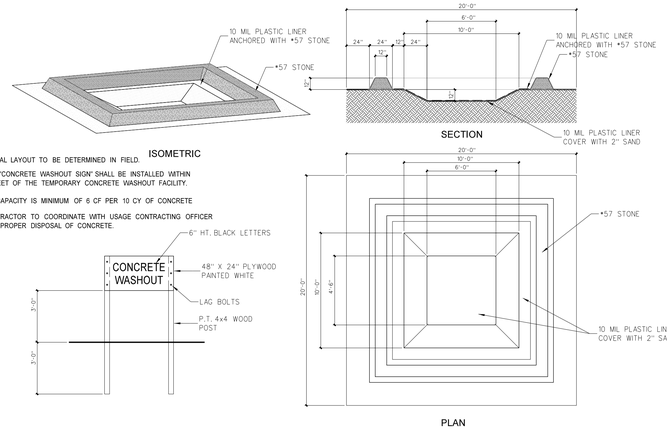
## SEDIMENT BASIN

### 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

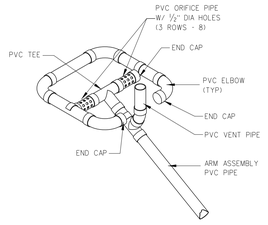
1. INSPECT TEMPORARY SEDIMENT BASINS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENT AND REPAIR IMMEDIATELY. REMOVE SEDIMENT AND RESTORE THE BASIN TO ITS ORIGINAL DIMENSIONS WHEN IT ACCUMULATES TO ONE-HALF THE DESIGN DEPTH. PLACE REMOVED SEDIMENT IN AN AREA WITH SEDIMENT 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.



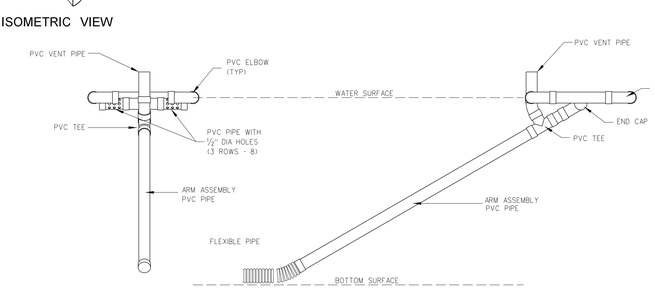

NOTES:
1. ACTUAL LAYOUT TO BE DETERMINED IN FIELD.
2. THE "CONCRETE WASHOUT SIGN" SHALL BE INSTALLED WITHIN 30 FEET OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
3. PIT CAPACITY IS MINIMUM OF 6 CF PER 10 CY OF CONCRETE
4. CONTRACTOR TO COORDINATE WITH USAGE CONTRACTING OFFICER FOR PROPER DISPOSAL OF CONCRETE.




# 303.5 CONCRETE WASHOUT PIT
SCALE: NONE



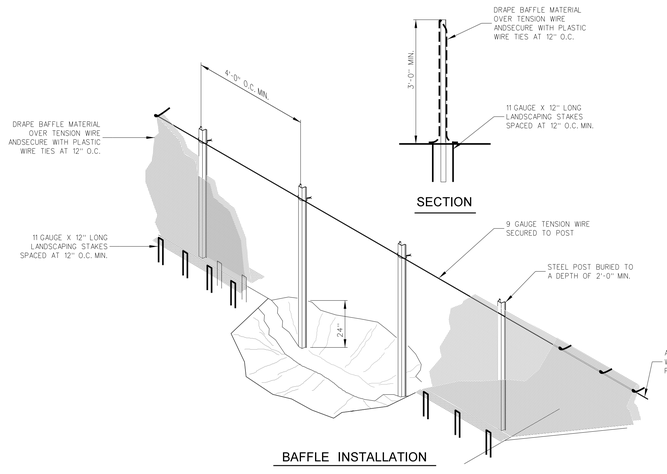

ISOMETRIC VIEW



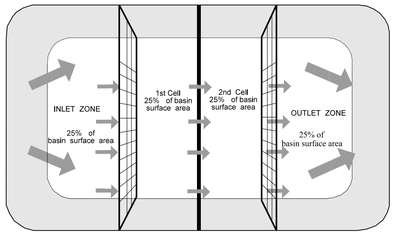

END VIEW SIDE VIEW

NOTE: ALL PIPE PVC SCHEDULE 40

# 303.3 SKIMMER DEWATERING DEVICE
SCALE: NONE



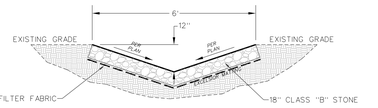

BAFFLE INSTALLATION



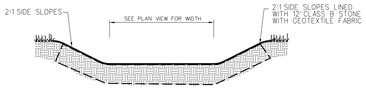

PLAN VIEW

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

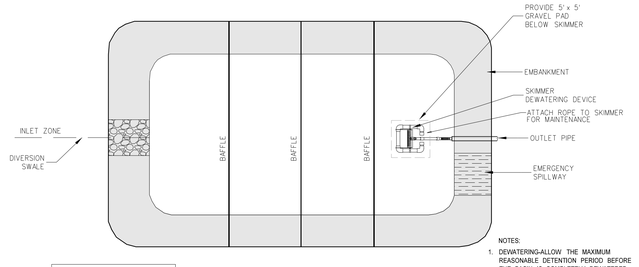
# 303.2 SEDIMENT BASIN BAFFLE INSTALLATION
SCALE: NONE




DIVERSION SWALE SECTION




EMERGENCY SPILLWAY SECTION

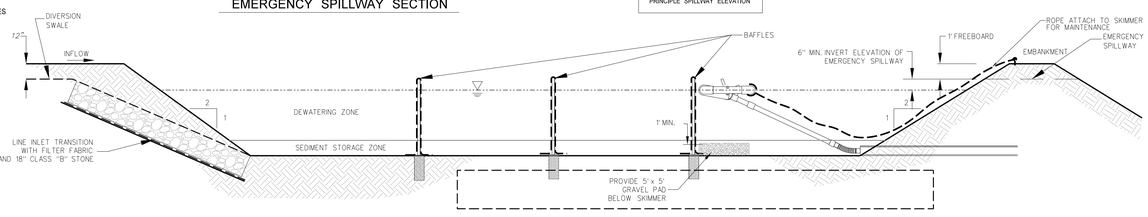



AVERAGE WIDTH "W" = AREA* / L

* 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
**Pitt County Office Park**
Government Cir., Greenville, NC 27858

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|---|---|
| Project No. | 22246 |
| Date: | 31 July 2023 |
| Drawing no. | C 303 |

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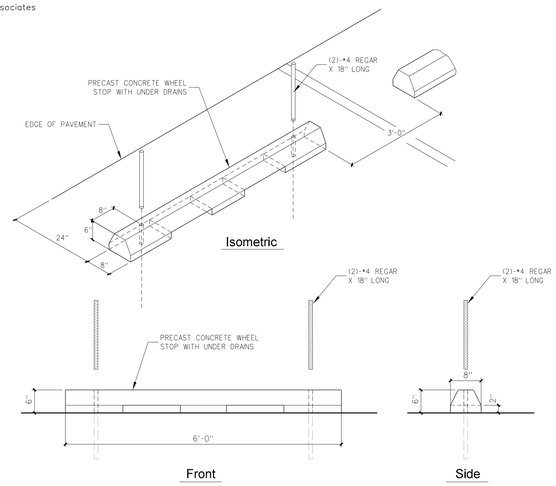
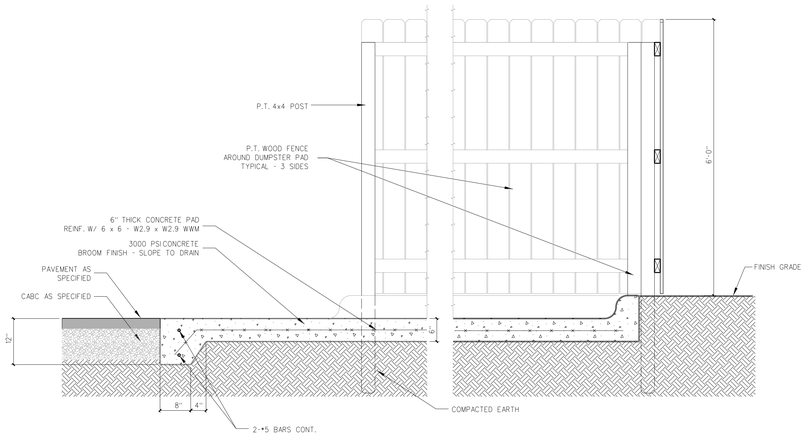
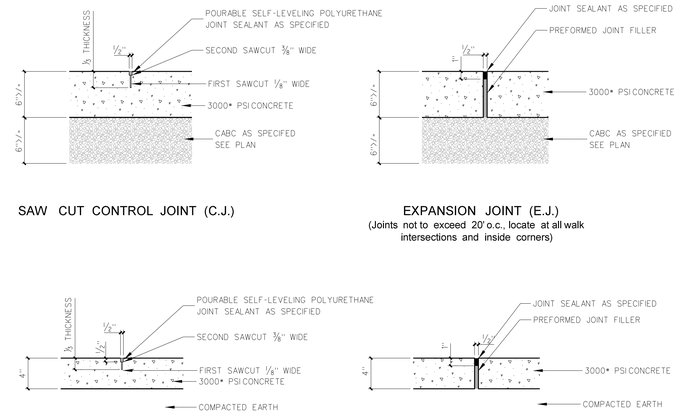



## 304.13 PRECAST CONCRETE WHEEL STOP
SCALE: NONE




## 304.12 DUMPSTER PAD DETAIL
SCALE: 3/4" = 1'-0"



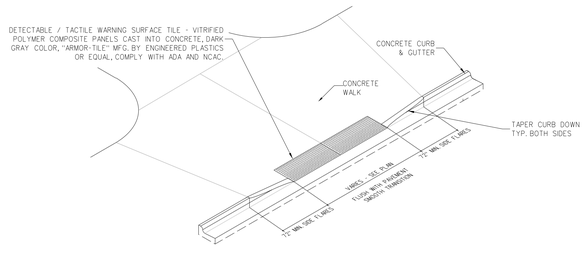

SAW CUT CONTROL JOINT (C.J.)

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

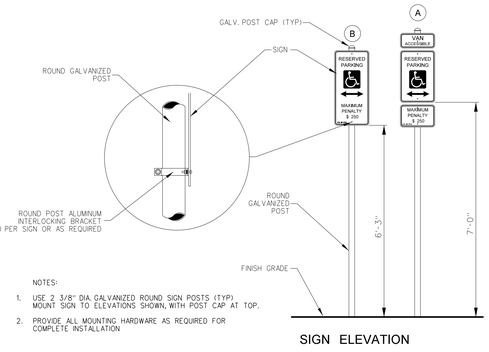
SAW CUT CONTROL JOINT (C.J.)
(Joints not to exceed 5' o.c.)

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

## 304.11 CONCRETE JOINT DETAILS
SCALE: NONE



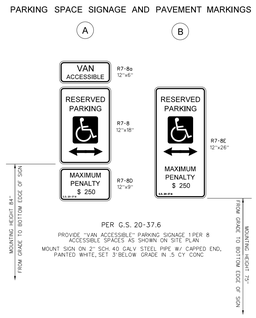

## 304.10 ACCESSIBLE CURB CUT @ H/C ACCESSIBLE PARKING
SCALE: NONE

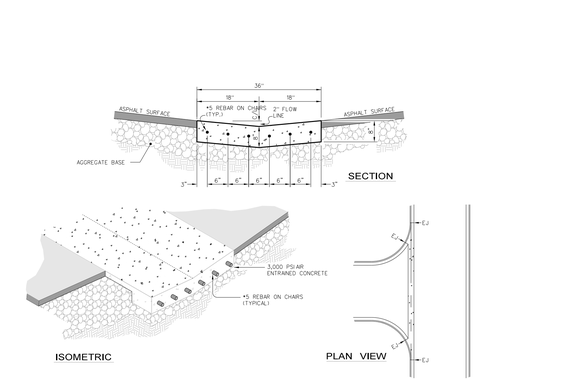



NOTES:
1. USE 2 3/8" DIA. GALVANIZED ROUND SIGN POSTS (TYP.) MOUNT SIGN TO ELEVATIONS SHOWN, WITH POST CAP AT TOP.
2. PROVIDE ALL MOUNTING HARDWARE AS REQUIRED FOR COMPLETE INSTALLATION

SIGN ELEVATION

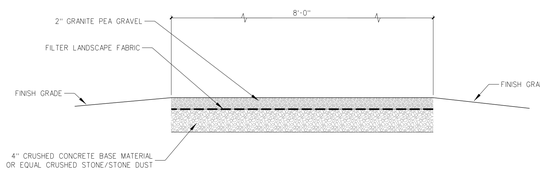
## 304.9 TYPICAL HANDICAP PARKING SIGN
SCALE: NONE



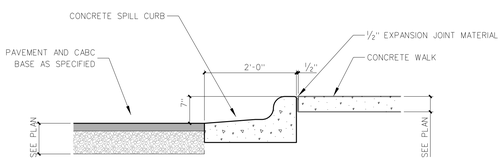




REFERENCE CITY OF GREENVILLE MANUAL OF STANARD DESIGNS & DETAILS #411.05

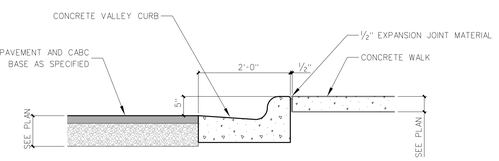
## 304.8 CONCRETE VALLEY GUTTER
SCALE: 3/4" = 1'-0"



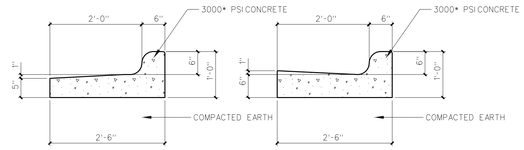

## 304.7 GRAVEL PATHWAY
SCALE: NTS




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

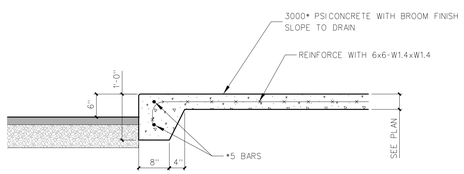



## 304.5 CONCRETE CURB/GUTTER @ WALK
304.5



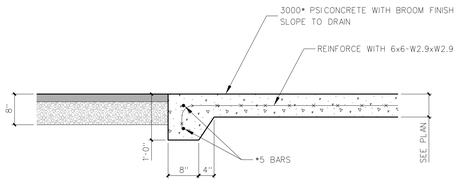

30" SPILL

30" GUTTER



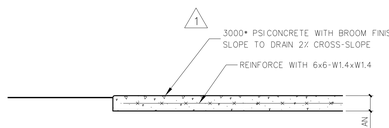

NOTE:
PROVIDE SAWCUT JOINTS AT 5'-0" O.C. VERIFY LAYOUT WITH ARCHITECT.
SAWCUT JOINTS MIN. ⅓ SLAB THICKNESS NO MORE THAN 24 HOURS AFTER PLACEMENT. SEE JOINT DETAILS. PROVIDE ½" EXPANSION JOINTS AS SPECIFIED, 30'-0" O.C. MAX., VERIFY LAYOUT WITH ARCHITECT

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



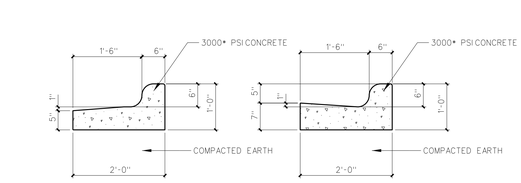

NOTE:
PROVIDE SAWCUT JOINTS AT 10'-0" O.C. VERIFY LAYOUT WITH ARCHITECT.
SAWCUT JOINTS MIN. ⅓ SLAB THICKNESS NO MORE THAN 24 HOURS AFTER PLACEMENT. SEE JOINT DETAILS PROVIDE ½" EXPANSION JOINTS AS SPECIFIED, 30'-0" O.C. MAX., VERIFY LAYOUT WITH ARCHITECT

## 304.3 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

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




24" SPILL

24" GUTTER

## 304.1 24"/30" CONCRETE CURB DETAILS
SCALE: 3/4" = 1'-0"

| No. | Date | Revision |
|---|---|---|
| 1 | 8-2-23 | REVISED PER CITY OF GREENVILLE COMMENTS |

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JAMES GRAY HITE REGISTERED ARCHITECT 3753 GREENVILLE, N.C.

COMMUNITY CENTER AND GYMNASIUM FOR
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| | |
|---|---|
| Project No. | 22246 |
| Date: | 31 July 2023 |
| Drawing no. | C 304 |

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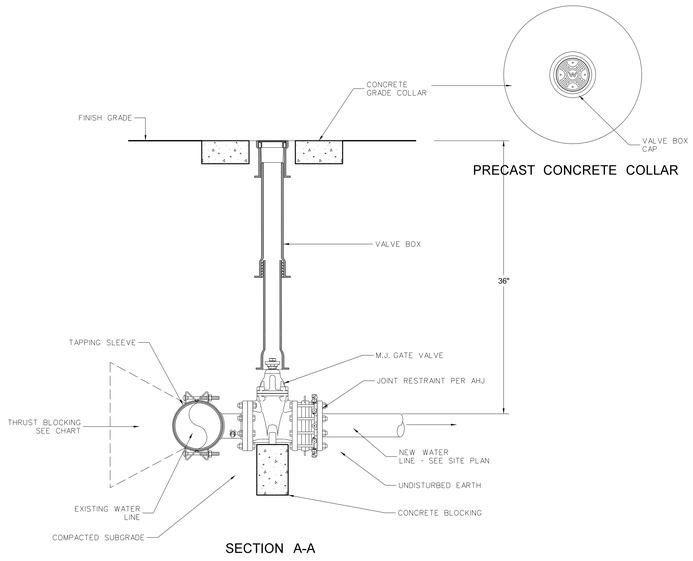
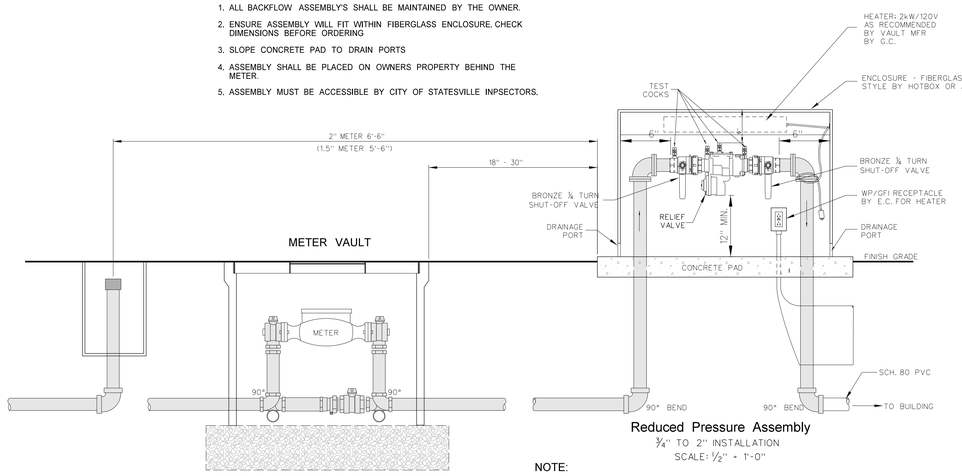



SECTION A-A

## 305.4 TAPPING SLEEVE & VALVE DET.
SCALE: NONE

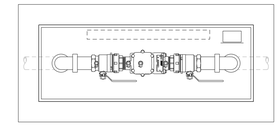
NOTES:

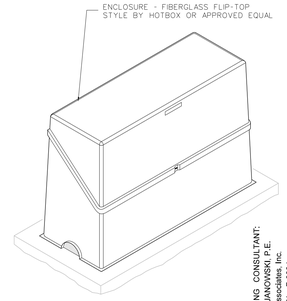
1. ALL BACKFLOW ASSEMBLY'S SHALL BE MAINTAINED BY THE OWNER.
2. ENSURE ASSEMBLY WILL FIT WITHIN FIBERGLASS ENCLOSURE. CHECK DIMENSIONS BEFORE ORDERING
3. SLOPE CONCRETE PAD TO DRAIN PORTS
4. ASSEMBLY SHALL BE PLACED ON OWNERS PROPERTY BEHIND THE METER.
5. ASSEMBLY MUST BE ACCESSIBLE BY CITY OF STATESVILLE INPSECTORS.



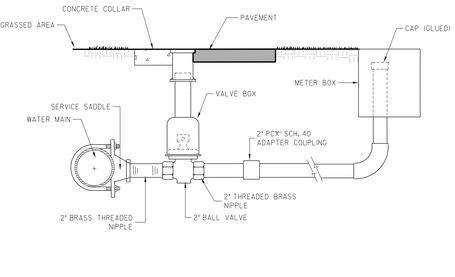

Reduced Pressure Assembly
¾" TO 2" INSTALLATION
SCALE: ½" = 1'-0"

NOTE:
ALL PIPING TO BE HARD COPPER TYPE L FROM WATER SERVICE TAP TO METER AND FROM METER TO RPZ DEVICE. ALL PIPING FROM RPZ TO BUILDING SHALL BE 2 1/2" SCH. 80 PVC.

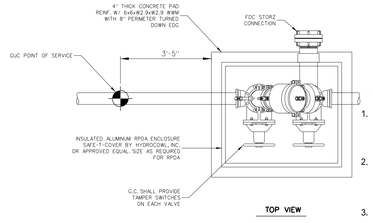





## 305.5 REDUCED PRESURE ASSEMBLY (DOMESTIC WATER SERVICE)
SCALE: NONE



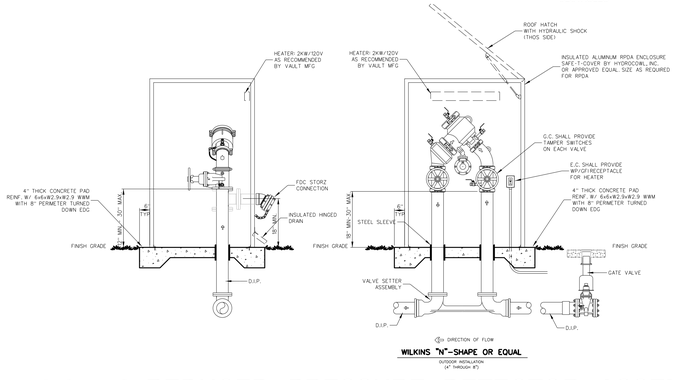

## 305.3 2" WATER SERVICE
SCALE: NONE




TOP VIEW

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
3. SEE PLAN FOR ANY SPECIAL LOCATION PROVISIONS ASSOCIATED WITH ELECTRICAL EASEMENTS OR OTHER FEATURES OR OBSTACLES



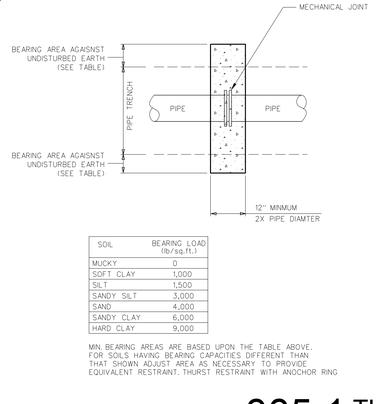

WILKINS "N"-SHAPE OR EQUAL
OUTDOOR INSTALLATION
(4" THROUGH 8")

## 305.2 REDUCED PRESSURE DETECTOR ASSEMBLY
SCALE: NONE

| PIPE SIZE | MINIMUM BEARING AREA (SQ.FT.) | | | | | |
|---|---|---|---|---|---|---|
| | SOFT CLAY | SILT | SANDY SILT | SAND | SAND CLAY | HARD CLAY |
| 4" | 2.7 | 1.8 | 1.0 | 1.0 | 1.0 | 1.0 |
| 6" | 5.6 | 3.7 | 1.9 | 1.4 | 1.0 | 1.0 |
| 8" | 9.7 | 6.4 | 3.2 | 2.4 | 1.6 | 1.1 |
| 10" | 15 | 10 | 4.8 | 3.6 | 2.4 | 1.6 |
| 12" | 21 | 14 | 6.8 | 5.1 | 3.4 | 2.3 |
| 14" | 28 | 18 | 9.2 | 6.9 | 4.6 | 3.1 |
| 16" | 36 | 24 | 12 | 8.9 | 5.9 | 4.0 |
| 18" | 45 | 30 | 15 | 11 | 7.4 | 5.0 |
| 20" | 55 | 37 | 18 | 14 | 9.2 | 6.1 |
| 24" | 78 | 52 | 26 | 20 | 13 | 8.7 |
| 30" | 121 | 81 | 40 | 30 | 20 | 13 |
| 36" | 173 | 115 | 56 | 43 | 29 | 19 |

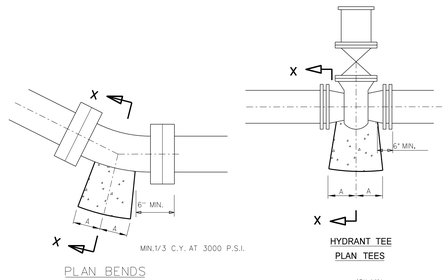
NOTES:

1. CONCRETE SHALL BE 3,000 PSIMIN.
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.



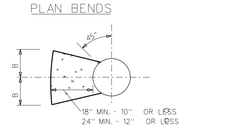

| SOIL | BEARING LOAD (lb/sq.ft.) |
|---|---|
| MUCKY | 0 |
| SOFT CLAY | 1,000 |
| SILT | 1,500 |
| SANDY SILT | 3,000 |
| SAND | 4,000 |
| SANDY CLAY | 6,000 |
| HARD CLAY | 9,000 |

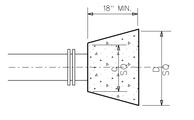
MIN. BEARING AREAS ARE BASED UPON THE TABLE ABOVE. FOR SOILS HAVING BEARING CAPACITIES DIFFERENT THAN THAT SHOWN ADJUST AREA AS NECESSARY TO PROVIDE EQUIVALENT RESTRAINT. THURST RESTRAINT WITH ANOCHOR RING




HYDRANT TEE
PLAN TEES

PLAN BENDS




| 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" |

## 305.1 THRUST BLOCKING/COLLAR DETAIL
SCALE: NONE

| No. | Date | Revision |
|---|---|---|
| 1 | 8-2-23 | REVISED PER CITY OF GREENVILLE COMMENTS |

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Government Cir., Greenville, NC 27858

Project No. 22246
Date: 31 July 2023
Drawing no. C 305

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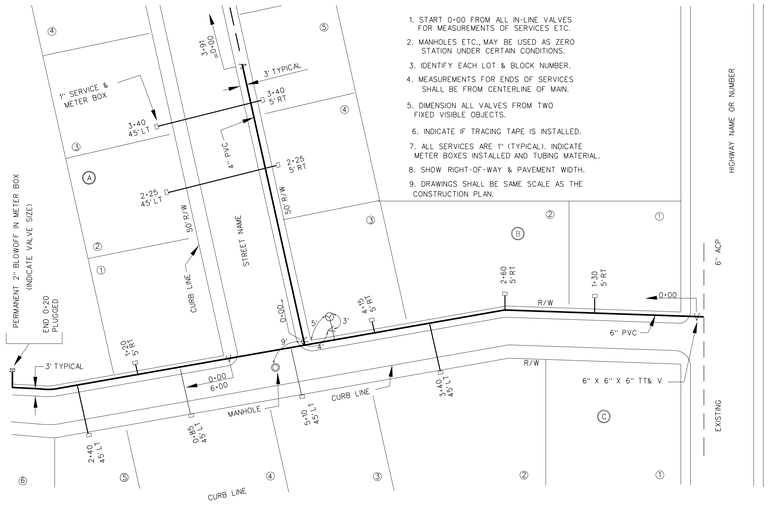
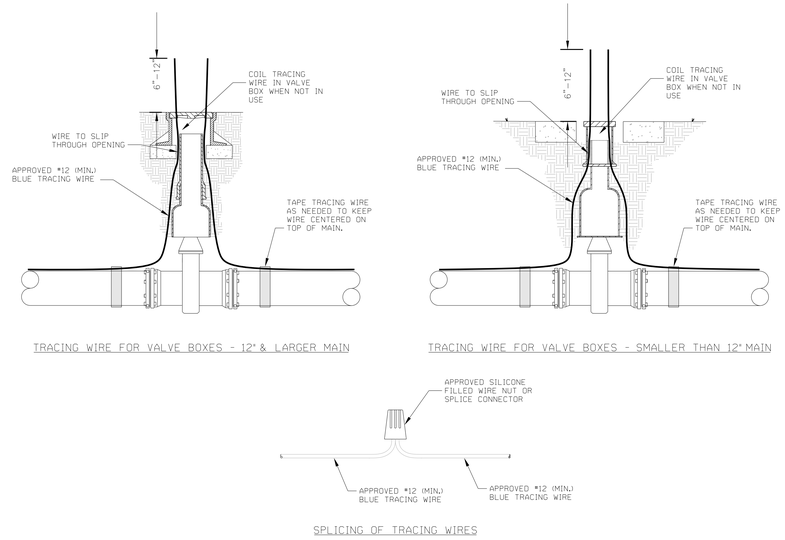
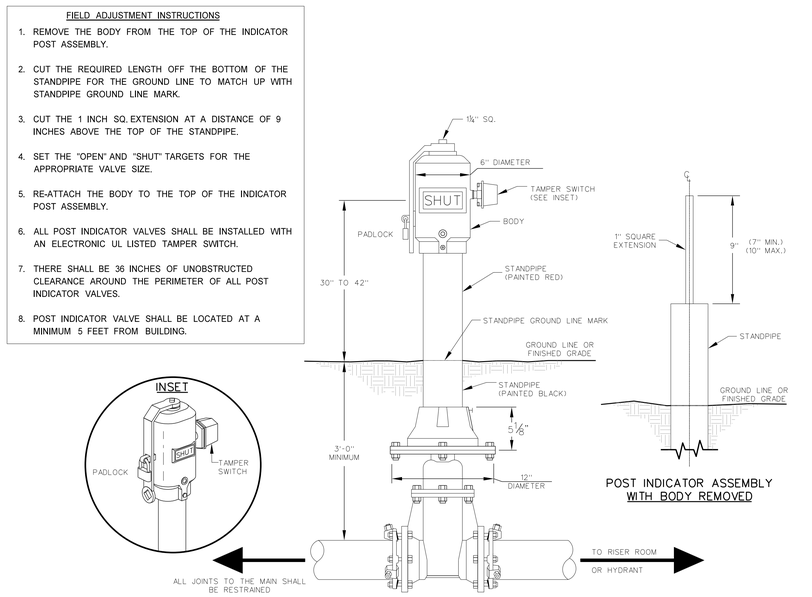


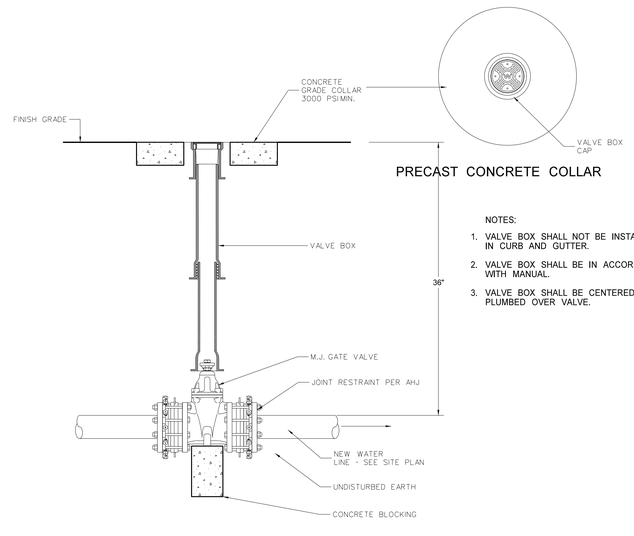

## 306.5 TYPICAL WATER SYSTEM AS-BUILT (City of Greenville)
SCALE: NONE



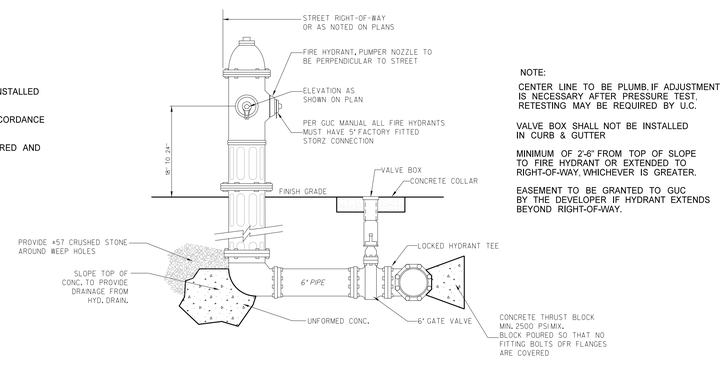

## 306.4 TRACING WIRE INSTALLATION
SCALE: NONE




## 306.3 STANDARD POST INDICATOR VALVE (P.I.V.) ASSEMBLY
SCALE: NONE




## 306.2 VALVE BOX DETAIL
SCALE: NONE




## 306.1 FIRE HYDRANT DETAIL
SCALE: NONE

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|---|---|---|

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# Pitt County Office Park
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Project No. 22246
Date: 31 July 2023
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.

| No. | Date | Revision |
|---|---|---|

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COMMUNITY CENTER AND GYMNASIUM FOR
**Pitt County Office Park**
Government Cir., Greenville, NC 27858

Project No. 22246
Date: 31 July 2023
Drawing no. C 307

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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<br>-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones<br>-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<br>-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<br>• Hydroseeding<br>• Rolled erosion control products with or without temporary grass seed<br>• Appropriately applied straw or other mulch<br>• Plastic sheeting | • Permanent grass seed covered with straw or other mulches and tackifiers<br>• Geotextile fabrics such as permanent soil reinforcement matting<br>• Hydroseeding<br>• Shrubs or other permanent plantings covered with mulch<br>• Uniform and evenly distributed ground cover sufficient to restrain erosion<br>• Structural methods such as concrete, asphalt or retaining walls<br>• 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.

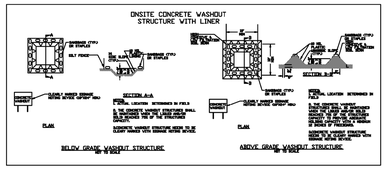
**PORTABLE TOILETS**

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.<br>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,<br>2. Date and time of the inspection,<br>3. Name of the person performing the inspection,<br>4. Indication of whether the measures were operating properly,<br>5. Description of maintenance needs for the measure,<br>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,<br>2. Date and time of the inspection,<br>3. Name of the person performing the inspection,<br>4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration,<br>5. Indication of visible sediment leaving the site,<br>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:<br>1. Actions taken to clean up or stabilize the sediment that has left the site limits,<br>2. Description, evidence, and date of corrective actions taken, and<br>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:<br>1. Description, evidence and date of corrective actions taken, and<br>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).<br>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.<br>• ***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.<br>• 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.<br>• ***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.<br>• ***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).<br>• 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

# 308.1 GENERAL EROSION CONTROL NCG01 NOTES

SCALE: NTS

| No. | Date | Revision |
|---|---|---|

**Hite associates**
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COMMUNITY CENTER AND GYMNASIUM FOR
**Pitt County Office Park**
Government Cir., Greenville, NC 27858

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

HITE ASSOCIATES, P.C. — ARCHITECTURAL CORPORATION — GREENVILLE, NORTH CAROLINA — CERTIFICATE NUMBER 4418

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 22374 STEPHEN JANOWSKI

| | |
|---|---|
| Project No. | 22246 |
| Date: | 31 July 2023 |
| Drawing no. | C 308 |

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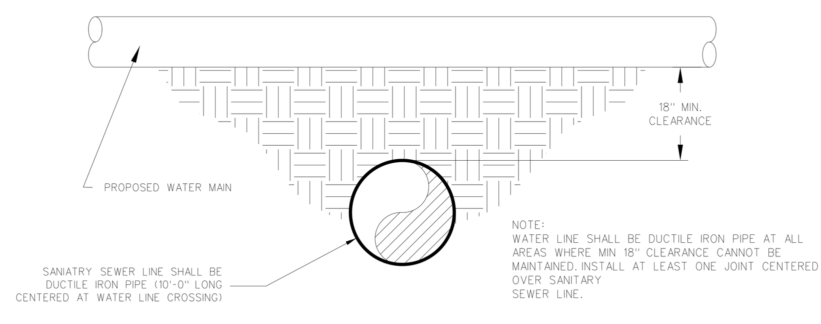
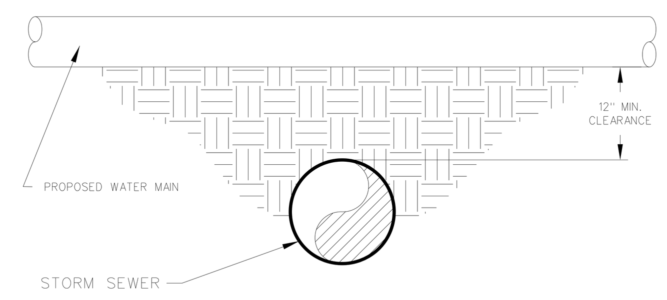
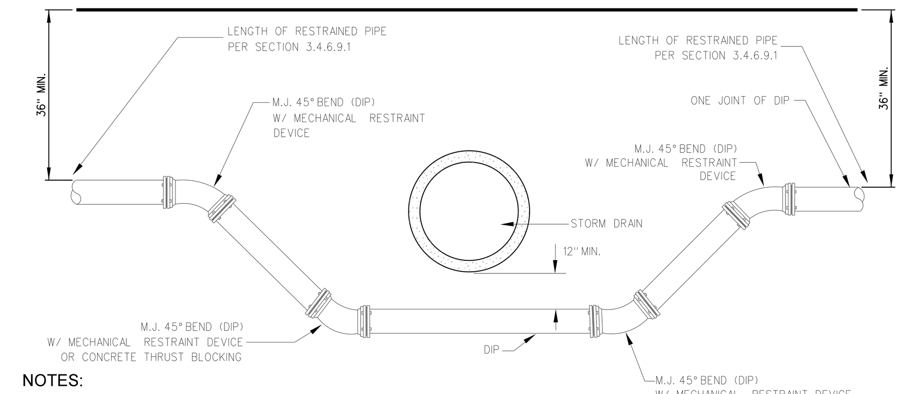



SANITARY SEWER PIPE BELOW WATER LINE




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

W-14

## 308.1 WATER MAIN STORM DRAIN CROSSING (W-14)

SCALE: None

NOTES:

CHLORINATION TAP & BACTERIOLOGICAL POIT (BSP)
Temporary Chlorination taps nad 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 securly located 36" above finish grade. Upon approval of final bacteriological samples the tubing and angle ball valve shall be removed, the corporation stop closed and a cap placed on the corporation stop.

* This project will require the submittal of a construction plan and shop drawings for approval and an executed hold harmless agreement prior to the scheduling a required pre-construction confernce. Call 252-551-1551 to schedule the confernce. NO UTILITY WORK CAN TAKE PLACE WITHOUT A PRE-CONSTRUCTION CONFERENCE.

## 309.1 SITE UTILITY PLAN

SCALE: 1" = 30'-0"

30 0 30 60 90 FEET

GRAPHIC SCALE

| No. | Date | Revision |
|---|---|---|
| 1 | 8-1-23 | REVISED PER NCDEQ COMMENTS |

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Rivers & Associates, Inc.
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107 East 2nd Street, Greenville, NC
(252)-714-3002

HITE ASSOCIATES, P.C. — REGISTERED ARCHITECTURAL CORPORATION — STATE OF NORTH CAROLINA — CERTIFICATE NUMBER 418 — GREENVILLE

NORTH CAROLINA PROFESSIONAL SEAL 12324 ENGINEER J. STEPHEN JANOWSKI

COMMUNITY CENTER AND GYMNASIUM FOR
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Project No. 22246

Date: 31 July 2023

Drawing no. C 309

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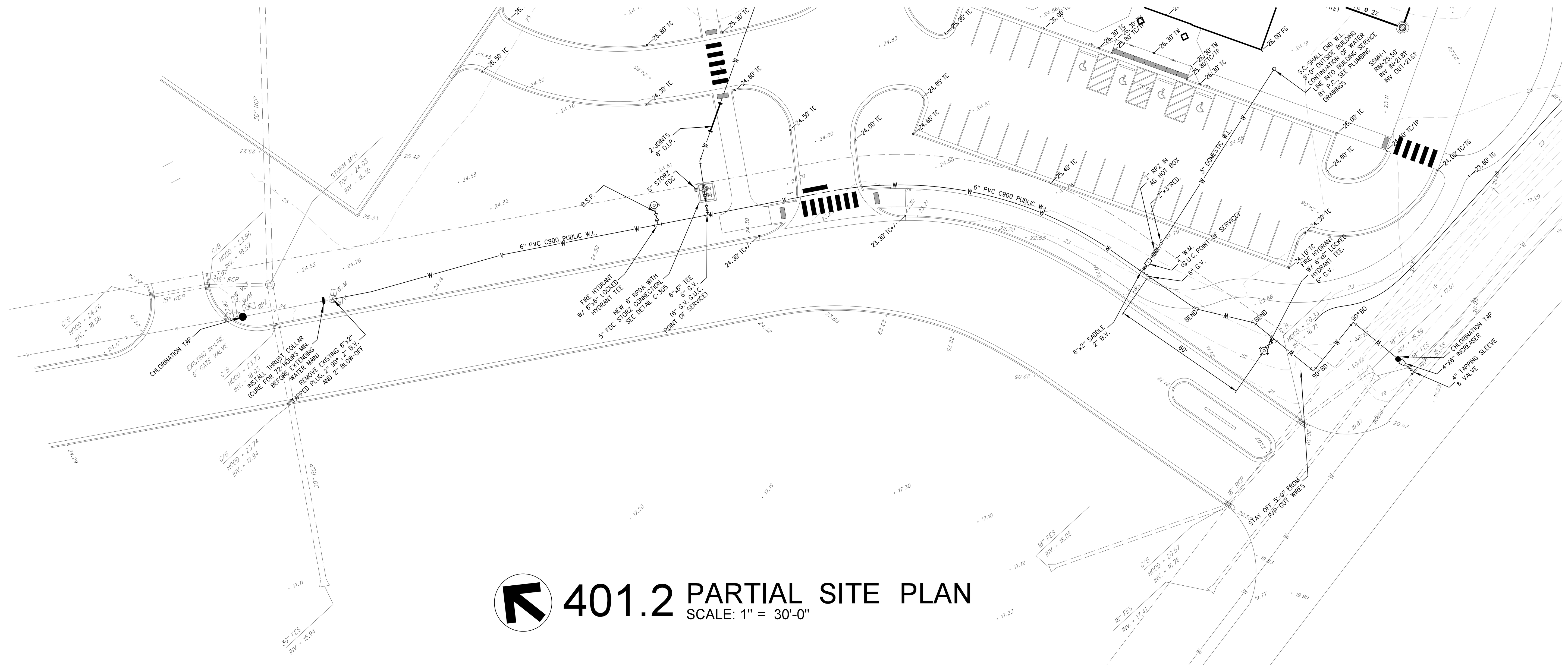
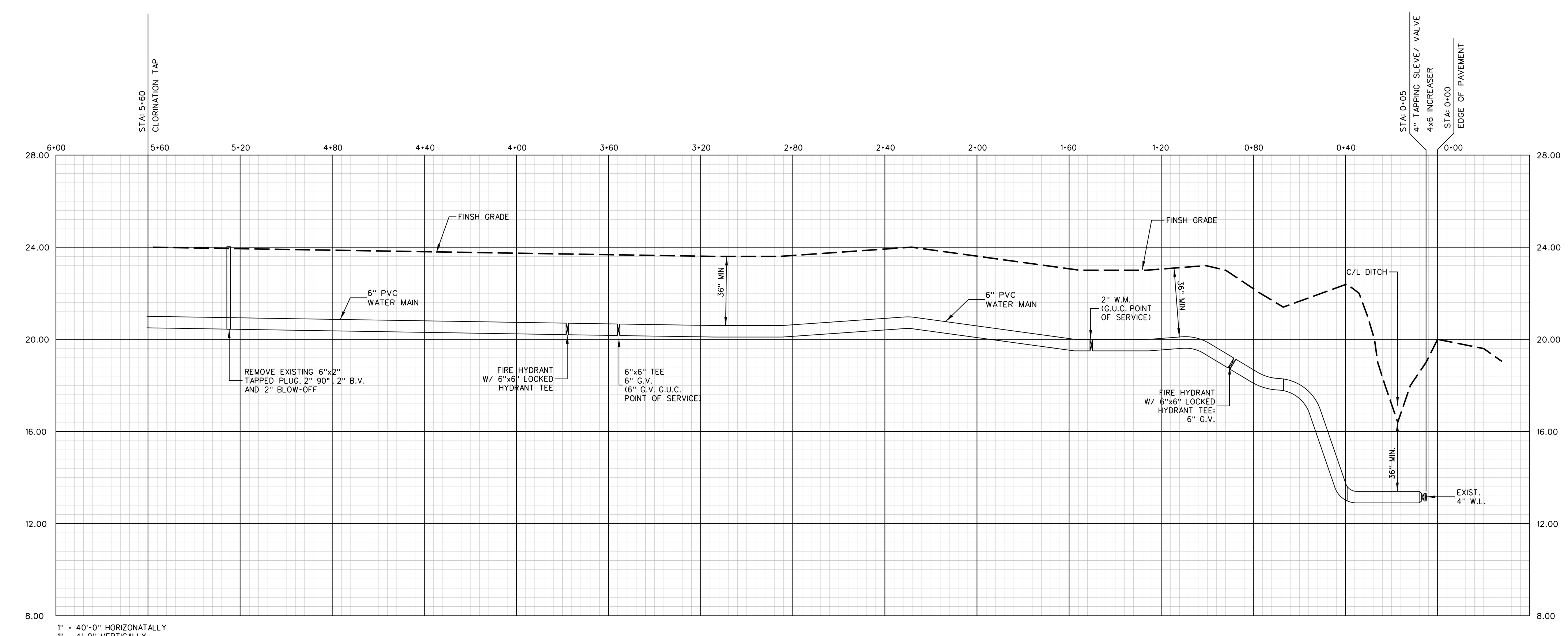



# 401.2 PARTIAL SITE PLAN
SCALE: 1" = 30'-0"




NOTES:

CHLORINATION TAP & BACTERIOLOGICAL POIT (BSP)
Temporary Chlorination taps nad 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 securly located 36" above finish grade. Upon approval of final bacteriological samples the tubing and angle ball valve shall be removed, the corporation stop closed and a cap placed on the corporation stop.

* This project will require the submittal of a construction plan and shop drawings for approval and an executed hold harmless agreement prior to the scheduling a required pre-construction confernce. Call 252-551-1551 to schedule the confernce. NO UTILITY WORK CAN TAKE PLACE WITHOUT A PRE-CONSTRUCTION CONFERENCE.

# 401.1 WATER LINE PLAN & PROFILE
SCALE: 1" = 30'-0"

| No. | Date | Revision |
|---|---|---|

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HITE ASSOCIATES, P.C. REGISTERED ARCHITECTURAL CORPORATION STATE OF NORTH CAROLINA CERTIFICATE NUMBER 418 GREENVILLE

CIVIL ENGINEERING CONSULTANT:
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NORTH CAROLINA PROFESSIONAL SEAL 12324 ENGINEER J. STEPHEN JANOWSKI

COMMUNITY CENTER AND GYMNASIUM FOR
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Drawing no. C 401

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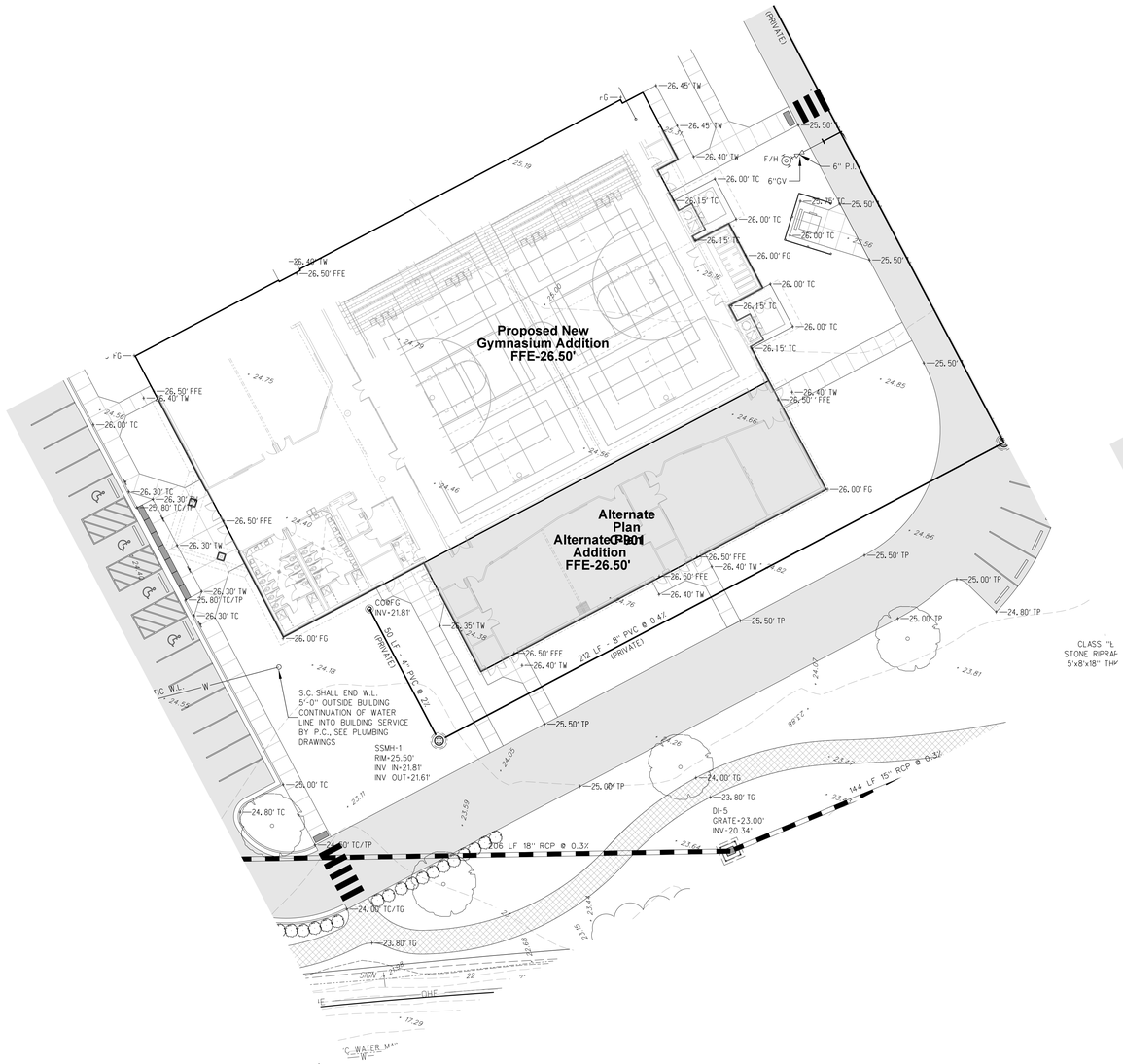
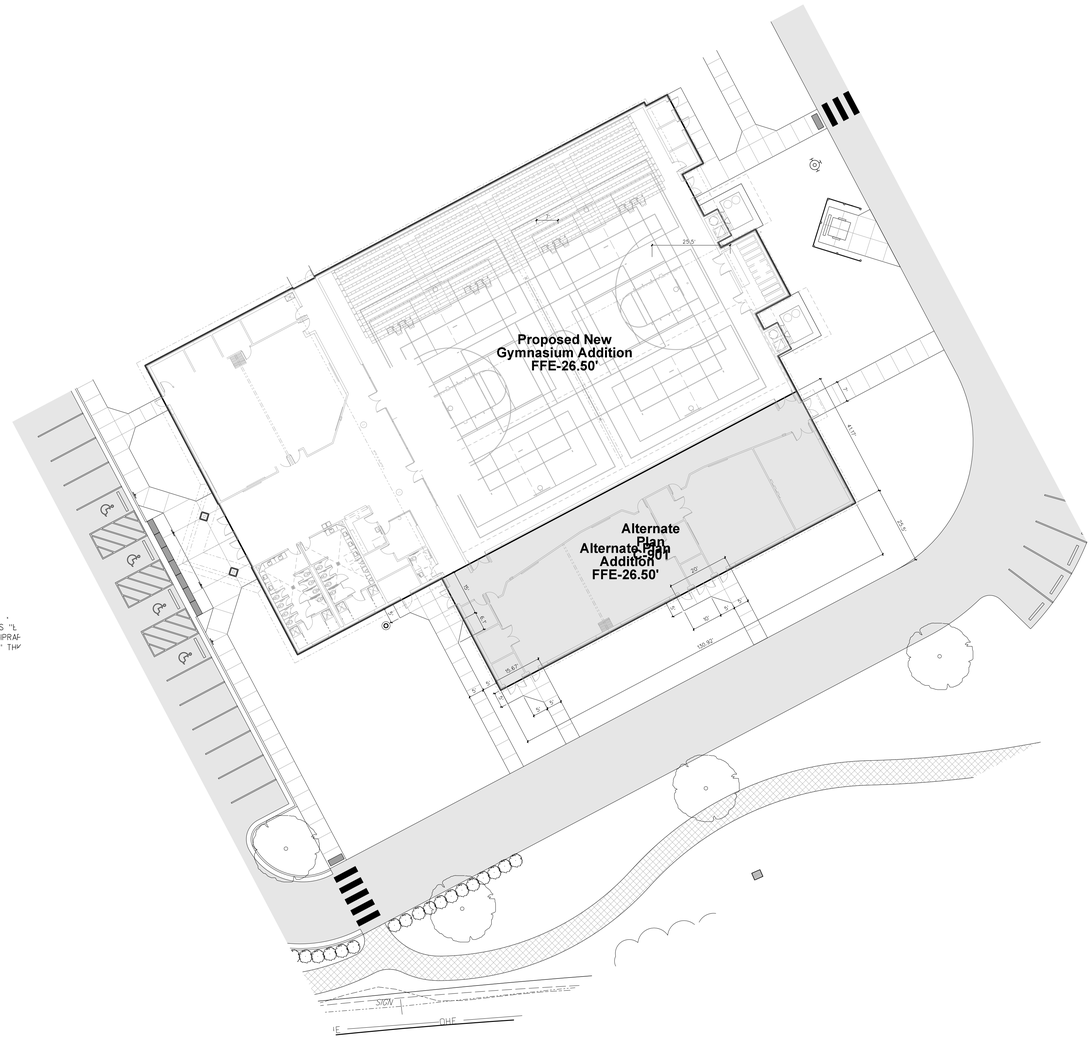



## 901.2 SITE GRADING & DRAINAGE PLAN (ALTERNATE)

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

| No. | Date | Revision |
|---|---|---|

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HITE ASSOCIATES, P.A. ARCHITECTURAL CORPORATION LICENSE NUMBER C-1818 REGISTERED GREENVILLE, N.C.

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Registered Landscape Architect
License No. FL0334
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(252)-714-3002

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT SEAL 12126 J. STEPHEN JANOWSKI

COMMUNITY CENTER AND GYMNASIUM FOR

# Pitt County Office Park

Government Ctr., Greenville, NC 27858

| | |
|---|---|
| Project No. | 22246 |
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| Drawing no. | C 901 |

ALTERNATE BID

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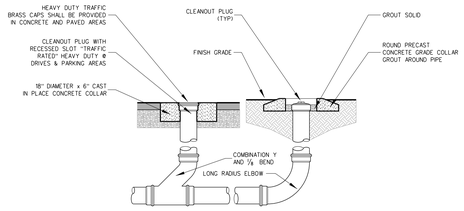


NOTE: CLEANOUT TO BE OF SAME MATERIAL AS PIPE U.O.N.

# 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.

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.)

## GENERAL NOTES:

(1) 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.

(2) 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.

(3) 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.

(4) 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 ⅛" 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 ⅛", AND SHALL BE PLACED AT INTERVALS NOT TO EXCEED 5 FEET.

(5) 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 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.

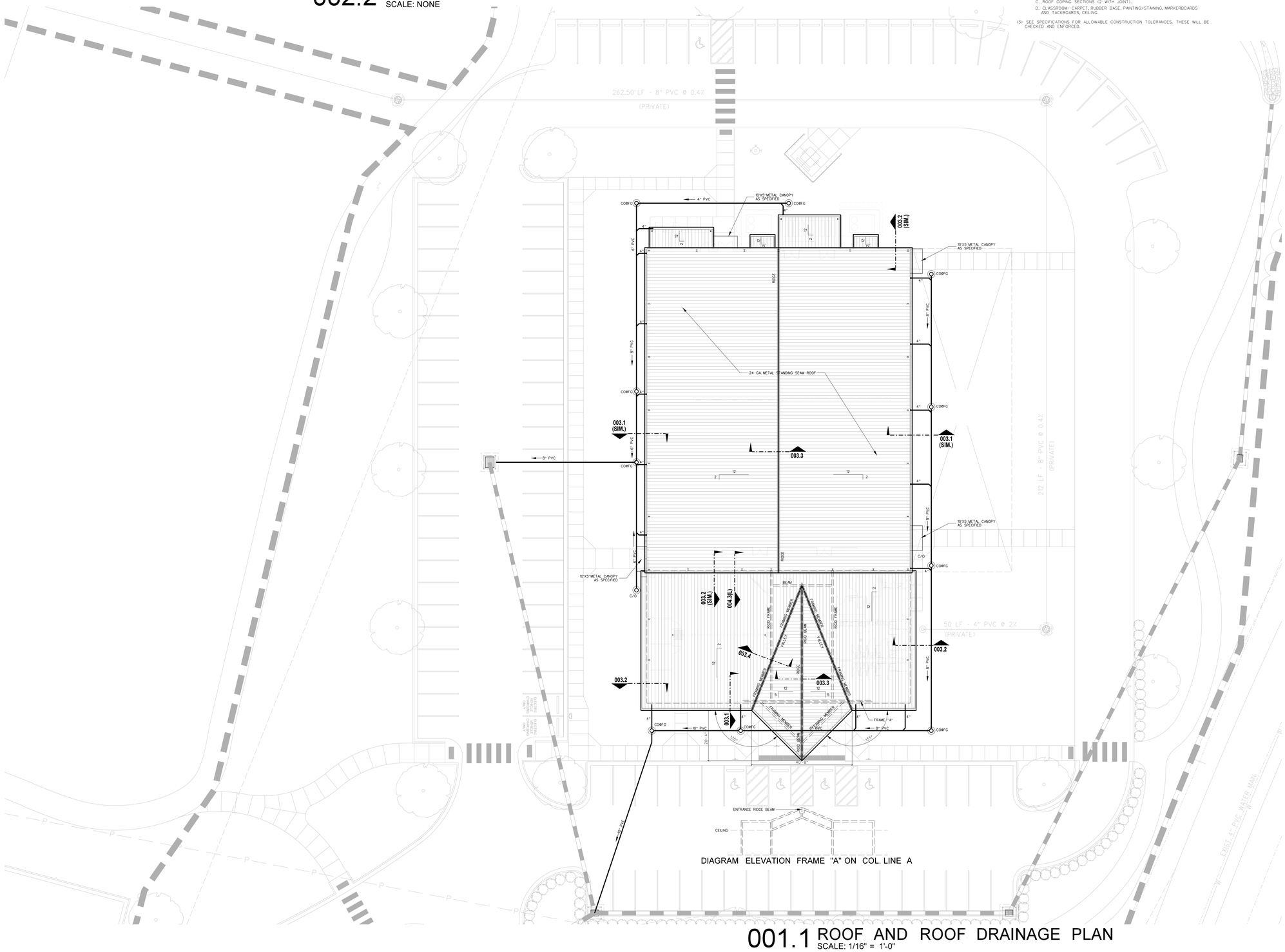


DIAGRAM ELEVATION FRAME "A" ON COL. LINE A

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

| No. | Date | Revision |
|---|---|---|
| | | |

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JAMES GRAY HITE — REGISTERED ARCHITECT — 3754 — GREENVILLE

COMMUNITY CENTER AND GYMNASIUM FOR
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Project No. 22246
Date: 31 July 2023
Drawing no. A 001
BASE BID

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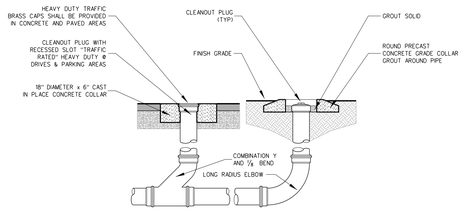


NOTE: CLEANOUT TO BE OF SAME MATERIAL AS PIPE U.O.N.

# 002.2 CLEAN-OUT DETAIL

## 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.

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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.)

## GENERAL NOTES:

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

(2) 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.

(3) 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.

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(5) 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 WORKMANSHIP. APPROVED PANEL WILL BE USED AS STANDARD OF QUALITY REQUIRED THROUGHOUT.

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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.

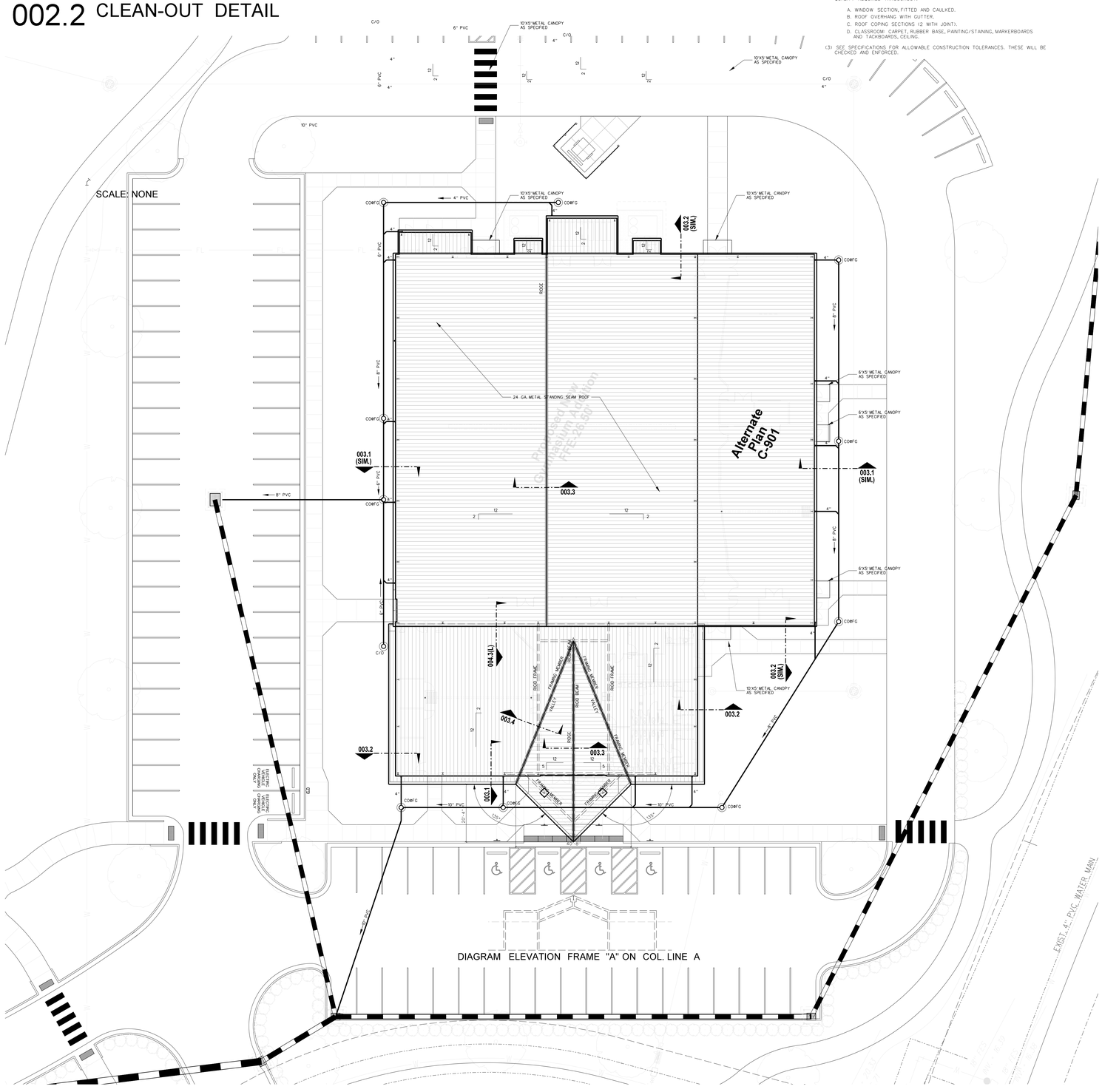


DIAGRAM ELEVATION FRAME "A" ON COL. LINE A

# 002.1 ROOF AND ROOF DRAINAGE PLAN

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

| No. | Date | Revision |
|---|---|---|

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

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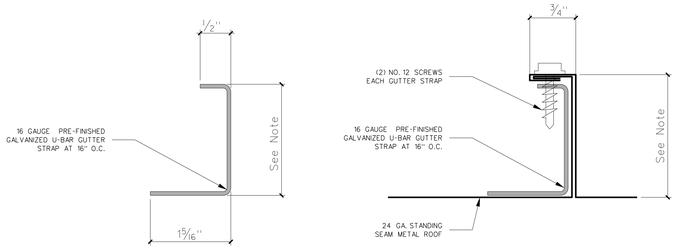
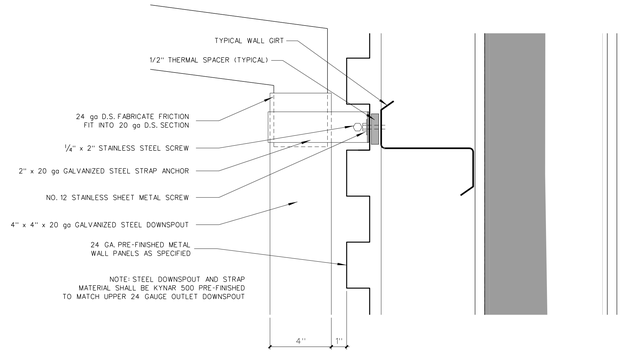



Note: Dimension based on roofing manufacturer provided.

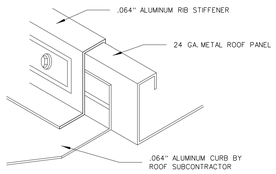
## 003.11 ROOF GUTTER STRAP DETAIL
SCALE: FULL



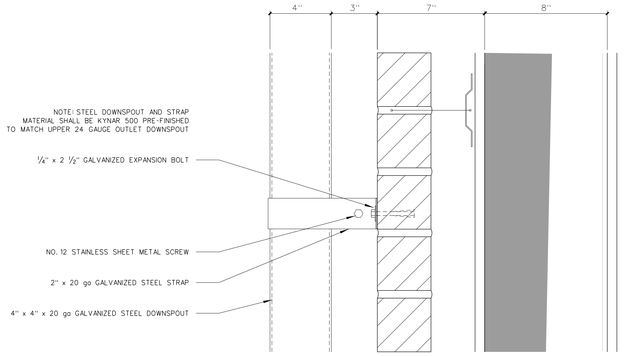

## 003.10 SNOW AND ICE GUARD DETAIL
SCALE: 3" = 1'-0"



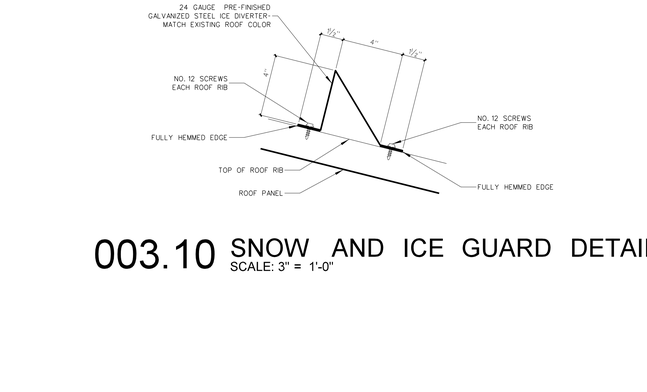

## 003.7 DETAIL - DOWNSPOUT @ MTL. PANEL
SCALE: 3" = 1'-0"



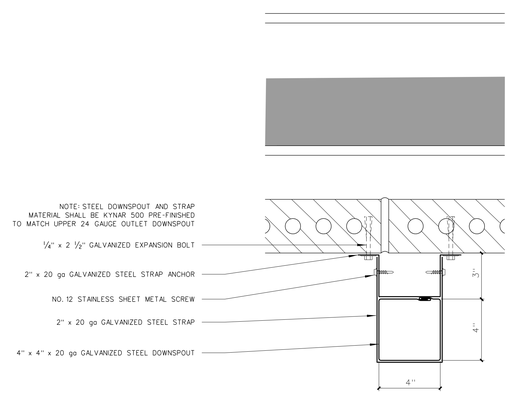

## 003.9 CURB FLASHING DETAIL
SCALE: NONE



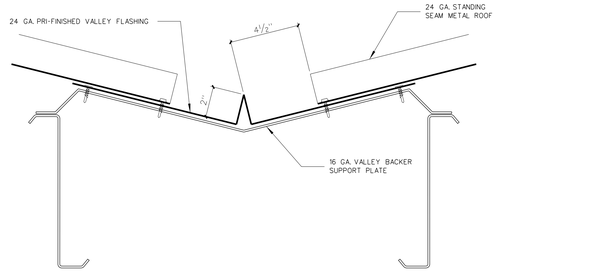

## 003.6 DETAIL - DOWNSPOUT @ BRICK
SCALE: 3" = 1'-0"



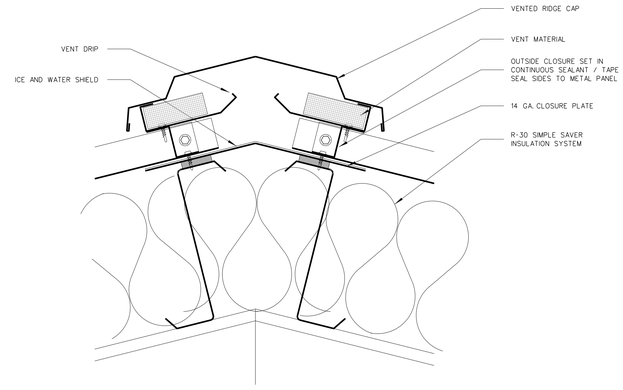

## 003.8 PIPE FLASHING DETAIL
SCALE: 3" = 1'-0"



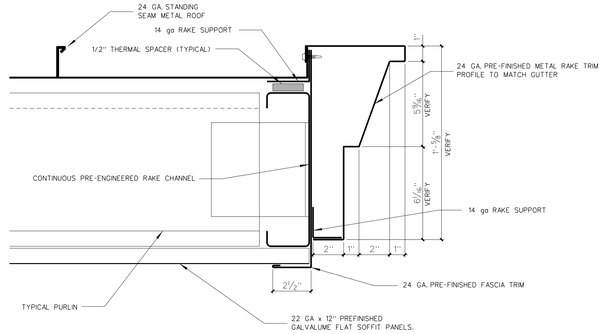

## 003.5 PLAN DETAIL - DOWNSPOUT @ BRICK
SCALE: 3" = 1'-0"



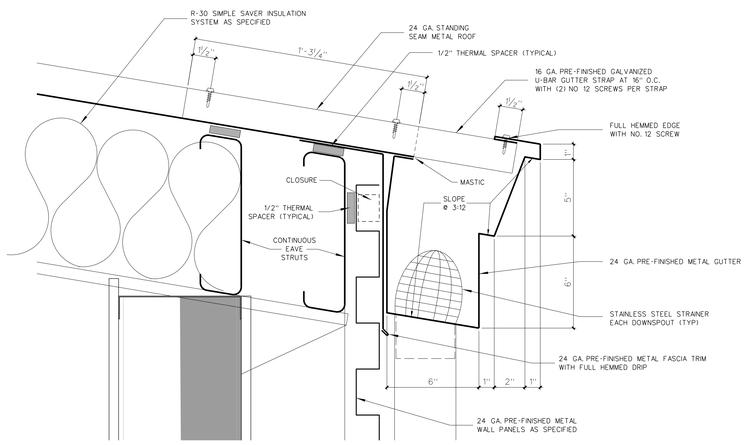

## 003.4 VALLEY DETAIL
SCALE: 3" = 1'-0"




## 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 |
|---|---|---|

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COMMUNITY CENTER AND GYMNASIUM FOR

# Pitt County Office Park

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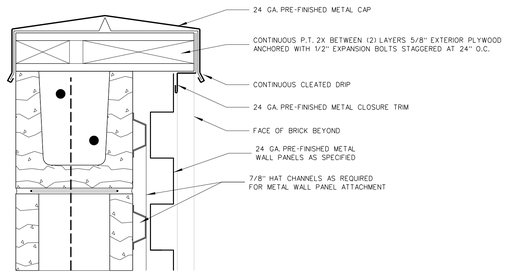
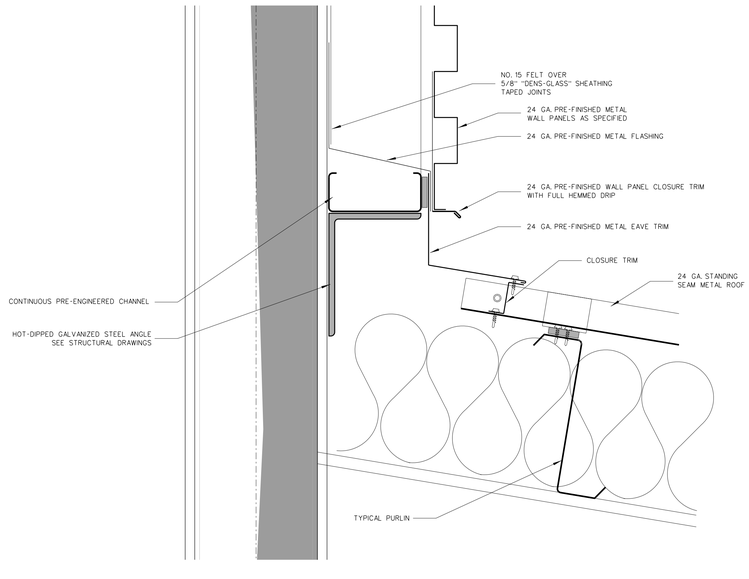
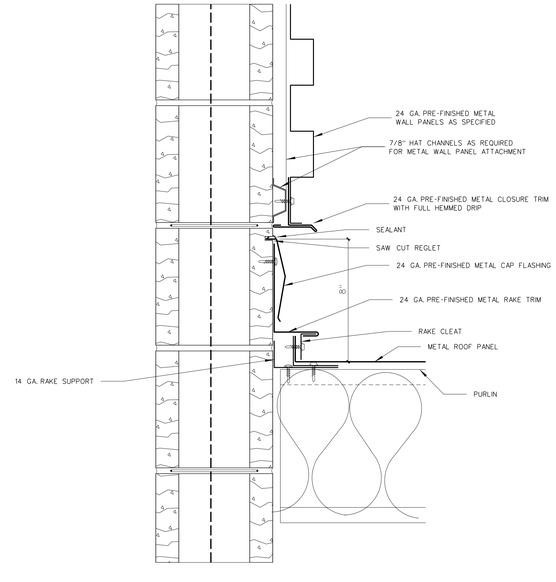



## 004.2 PARAPET DETAIL
SCALE: 3" = 1'-0"




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




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

| No. | Date | Revision |
|---|---|---|
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Government Cir., Greenville, NC 27858

Project No.
22246

Date
31 July 2023

Drawing no.
A
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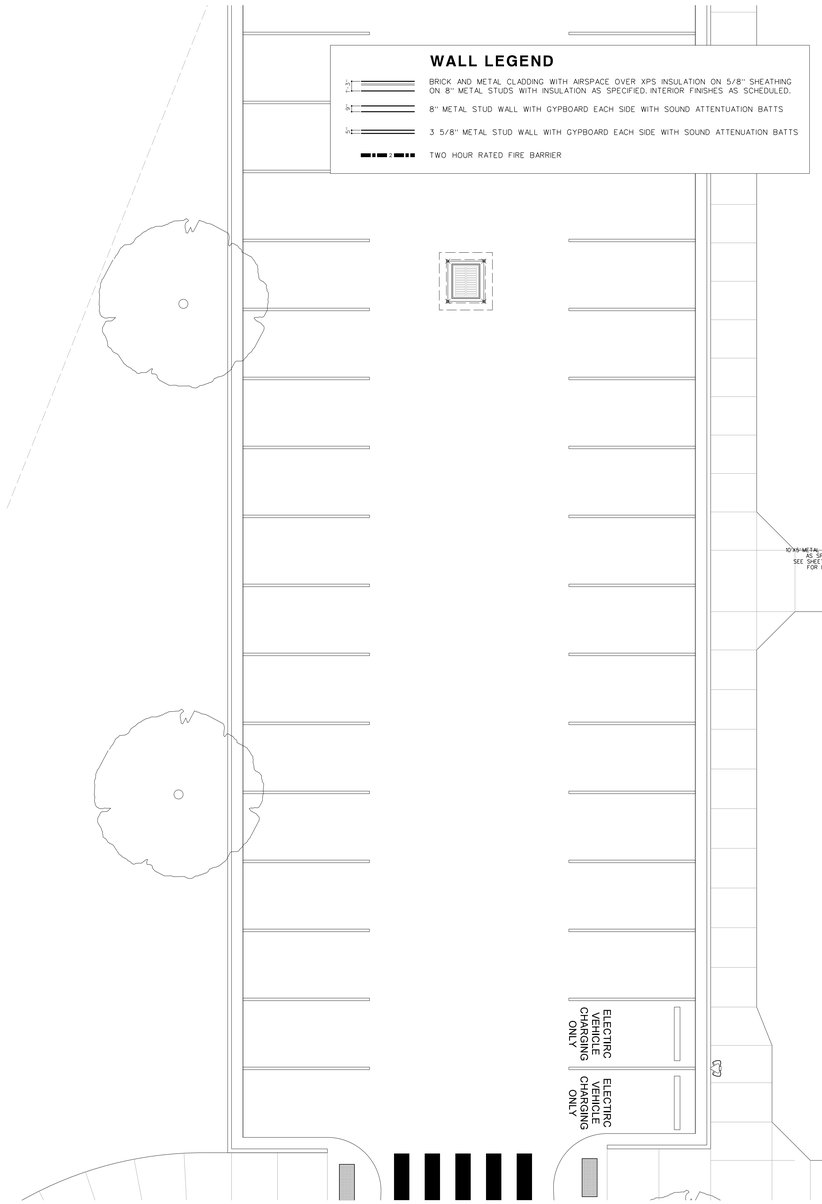
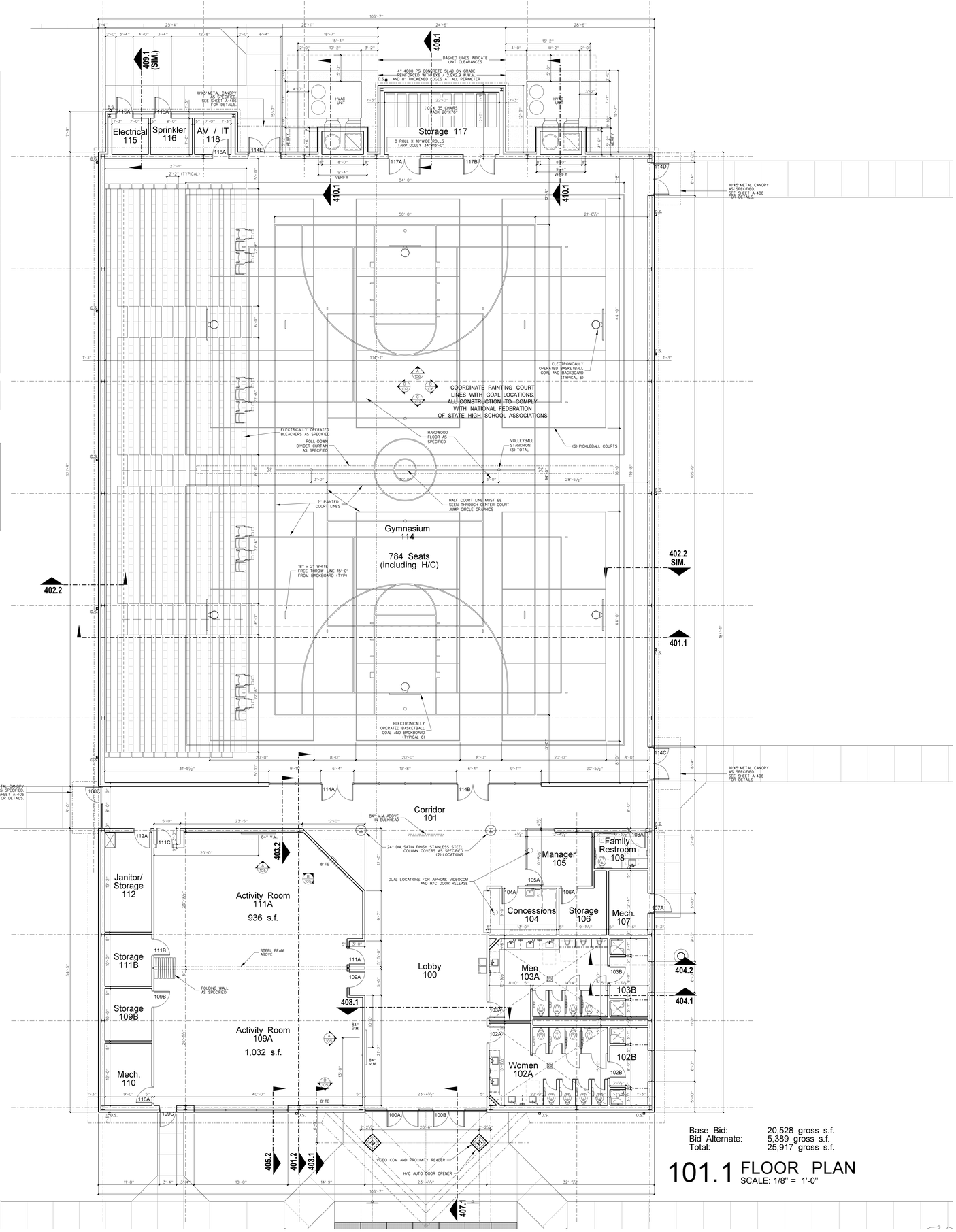
## ROOM FINISH SCHEDULE

| BASE / ALTERNATE | MARK | | AREA | FLOOR | BASE | WALLS | CEILING | CLG HEIGHT | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| BASE BID | 100 | | LOBBY | LCT | 4" RUBBER | PAINTED GYPBOARD | PAINTED GYPBOARD | VARIES | |
| BASE BID | 101 | | CORRIDOR | LCT | 4" RUBBER | PAINTED GYPBOARD | PAINTED GYPBD./ACOUS. TILE | 9'-11"/10'-0" | |
| BASE BID | 102 | A | WOMEN | CER TILE | CER TILE | PAINTED / CER TILE | VINYL FACED GYPSUM PANEL | 10'-0" | |
| BASE BID | 102 | B | SHOWERS | CER TILE | CER TILE | PAINTED / CER TILE | PNT M.R. GYPBOARD | 9'-0" | |
| BASE BID | 103 | A | MEN | CER TILE | CER TILE | PAINTED / CER TILE | VINYL FACED GYPSUM PANEL | 10'-0" | |
| BASE BID | 103 | B | SHOWERS | CER TILE | CER TILE | PAINTED / CER TILE | PNT M.R. GYPBOARD | 9'-0" | |
| BASE BID | 104 | | CONCESSIONS | LCT | 4" RUBBER | PAINTED GYPBOARD | ACOUSTICAL TILE | 10'-0" | |
| BASE BID | 105 | | MANAGER | LCT | 4" RUBBER | PAINTED GYPBOARD | ACOUSTICAL TILE | 10'-0" | |
| BASE BID | 106 | | STORAGE | LCT | 4" RUBBER | PAINTED GYPBOARD | ACOUSTICAL TILE | 10'-0" | |
| BASE BID | 107 | | MECHANICAL | SEALED CONC. | NONE | NONE | EXPOSED STRUCTURE | VARIES | |
| BASE BID | 108 | | FAMILY RESTROOM | CER TILE | CER TILE | PAINTED / CER TILE | VINYL FACED GYPSUM PANEL | 9'-0" | |
| BASE BID | 109 | A | ACTIVITY ROOM | SPORTS FLOOR | 4" RUBBER | PAINTED GYPBOARD | ACOUSTICAL TILE | 10'-0" | |
| BASE BID | 109 | B | STORAGE | LCT | 4" RUBBER | PAINTED GYPBOARD | ACOUSTICAL TILE | 10'-0" | |
| BASE BID | 110 | | MECHANICAL | SEALED CONC. | NONE | NONE | EXPOSED STRUCTURE | VARIES | |
| BASE BID | 111 | A | ACTIVITY ROOM | SPORTS FLOOR | 4" RUBBER | PAINTED GYPBOARD | ACOUSTICAL TILE | 10'-0" | |
| BASE BID | 111 | B | STORAGE | LCT | 4" RUBBER | PAINTED GYPBOARD | ACOUSTICAL TILE | 10'-0" | |
| BASE BID | 112 | | JANITOR / STORAGE | CER TILE | CER TILE | PAINTED / CER TILE | VINYL FACED GYPSUM PANEL | 10'-0" | |
| BASE BID | 113 | | NOT USED | NOT USED | NOT USED | NOT USED | NOT USED | NOT USED | |
| BASE BID | 114 | | GYMNASIUM | SPORTS FLOOR | 4" RUBBER | PAINTED GYPBOARD | PNT STRUCT / ACOUS SPRAY | VARIES | |
| BASE BID | 115 | | ELECTRICAL | SEALED CONC. | NONE | NONE | EXPOSED STRUCTURE | VARIES | |
| BASE BID | 116 | | SPRINKLER RISER | SEALED CONC. | NONE | NONE | EXPOSED STRUCTURE | VARIES | |
| BASE BID | 117 | | STORAGE | LCT | 4" RUBBER | PAINTED GYPBOARD | ACOUSTICAL TILE | 10'-0" | |
| BASE BID | 118 | | AV / IT | SEALED CONC. | NONE | NONE | EXPOSED STRUCTURE | VARIES | |
| ALTERNATE | 119 | | CORRIDOR | LCT | 4" RUBBER | PAINTED GYPBOARD | ACOUSTICAL TILE | 10'-0" | |
| ALTERNATE | 120 | | STORAGE | LCT | 4" RUBBER | PAINTED GYPBOARD | ACOUSTICAL TILE | 10'-0" | |
| ALTERNATE | 121 | A | ACTIVITY ROOM | SPORTS FLOOR | 4" RUBBER | PAINTED GYPBOARD | ACOUSTICAL TILE | 10'-0" | |
| ALTERNATE | 121 | B | STORAGE | LCT | 4" RUBBER | PAINTED GYPBOARD | ACOUSTICAL TILE | 10'-0" | |
| ALTERNATE | 121 | C | MECHANICAL | SEALED CONC. | NONE | NONE | EXPOSED STRUCTURE | VARIES | |
| ALTERNATE | 122 | A | ACTIVITY ROOM | SPORTS FLOOR | 4" RUBBER | PAINTED GYPBOARD | ACOUSTICAL TILE | 10'-0" | |
| ALTERNATE | 122 | B | STORAGE | LCT | 4" RUBBER | PAINTED GYPBOARD | ACOUSTICAL TILE | 10'-0" | |
| ALTERNATE | 123 | | MECHANICAL | SEALED CONC. | NONE | NONE | EXPOSED STRUCTURE | VARIES | |
| ALTERNATE | 124 | A | ACTIVITY ROOM | SPORTS FLOOR | 4" RUBBER | PAINTED GYPBOARD | ACOUSTICAL TILE | 10'-0" | |
| ALTERNATE | 124 | B | STORAGE | LCT | 4" RUBBER | PAINTED GYPBOARD | ACOUSTICAL TILE | 10'-0" | |
| ALTERNATE | 125 | | STORAGE | LCT | 4" RUBBER | PAINTED GYPBOARD | ACOUSTICAL TILE | 10'-0" | |

NOTES

1 GYPBOARD CEILINGS AND BULKHEADS: PAINT FLAT WHITE LATEX, NO TEXTURE, USE STRAIGHT CORNER BEADS, NO BULLNOSE EXCEPT WHERE INDICATED




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 |
|---|---|---|
| | | |

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| Project No. | 22246 |
| Date: | 31 July 2023 |
| Drawing no. | A 101 |
| | BASE |

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## ROOM FINISH SCHEDULE

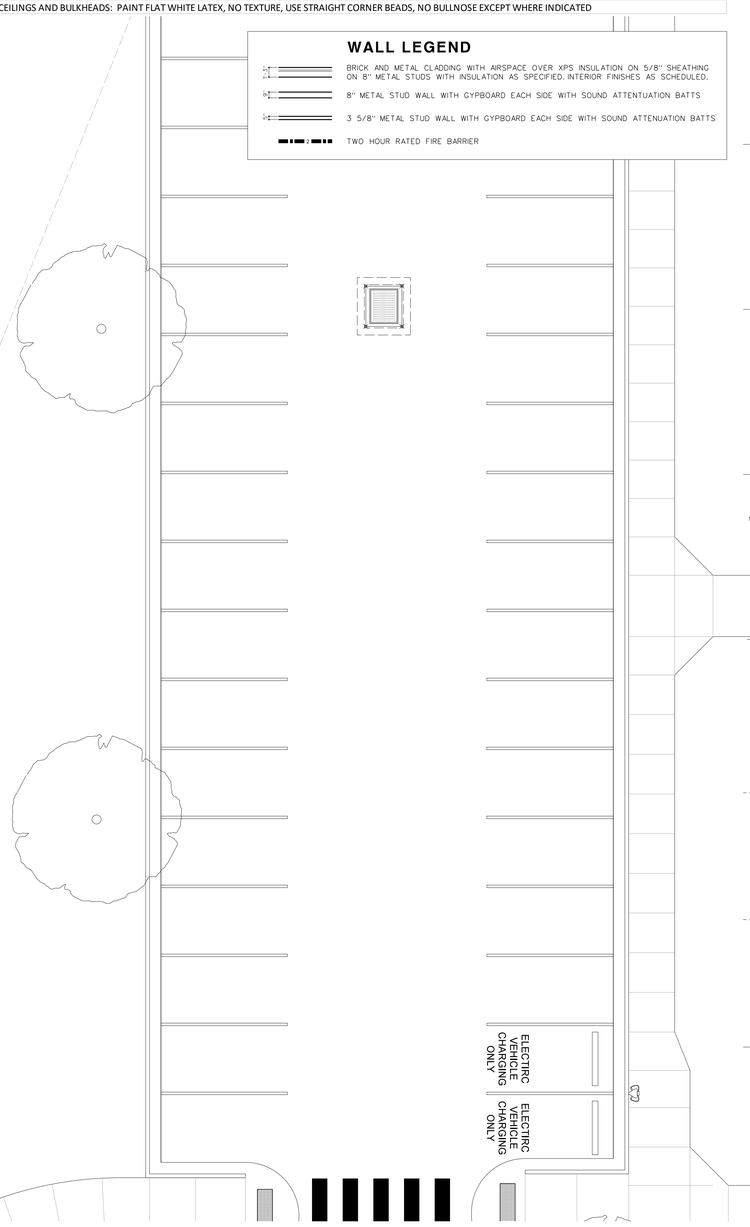
| BASE / ALTERNATE | MARK | | AREA | FLOOR | BASE | WALLS | CEILING | CLG HEIGHT | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| BASE BID | 100 | | LOBBY | LCT | 4" RUBBER | PAINTED GYPBOARD | PAINTED GYPBOARD | VARIES | |
| BASE BID | 101 | | CORRIDOR | LCT | 4" RUBBER | PAINTED GYPBOARD | PAINTED GYPBD./ACOUS. TILE | 9'-11"/10'-0" | |
| BASE BID | 102 | A | WOMEN | CER TILE | CER TILE | PAINTED / CER TILE | VINYL FACED GYPSUM PANEL | 10'-0" | |
| BASE BID | 102 | B | SHOWERS | CER TILE | CER TILE | PAINTED / CER TILE | PNT M.R. GYPBOARD | 9'-0" | |
| BASE BID | 103 | A | MEN | CER TILE | CER TILE | PAINTED / CER TILE | VINYL FACED GYPSUM PANEL | 10'-0" | |
| BASE BID | 103 | B | SHOWERS | CER TILE | CER TILE | PAINTED / CER TILE | PNT M.R. GYPBOARD | 9'-0" | |
| BASE BID | 104 | | CONCESSIONS | LCT | 4" RUBBER | PAINTED GYPBOARD | ACOUSTICAL TILE | 10'-0" | |
| BASE BID | 105 | | MANAGER | LCT | 4" RUBBER | PAINTED GYPBOARD | ACOUSTICAL TILE | 10'-0" | |
| BASE BID | 106 | | STORAGE | LCT | 4" RUBBER | PAINTED GYPBOARD | ACOUSTICAL TILE | 10'-0" | |
| BASE BID | 107 | | MECHANICAL | SEALED CONC. | NONE | NONE | EXPOSED STRUCTURE | VARIES | |
| BASE BID | 108 | | FAMILY RESTROOM | CER TILE | CER TILE | PAINTED / CER TILE | VINYL FACED GYPSUM PANEL | 9'-0" | |
| BASE BID | 109 | A | ACTIVITY ROOM | SPORTS FLOOR | 4" RUBBER | PAINTED GYPBOARD | ACOUSTICAL TILE | 10'-0" | |
| BASE BID | 109 | B | STORAGE | LCT | 4" RUBBER | PAINTED GYPBOARD | ACOUSTICAL TILE | 10'-0" | |
| BASE BID | 110 | | MECHANICAL | SEALED CONC. | NONE | NONE | EXPOSED STRUCTURE | VARIES | |
| BASE BID | 111 | A | ACTIVITY ROOM | SPORTS FLOOR | 4" RUBBER | PAINTED GYPBOARD | ACOUSTICAL TILE | 10'-0" | |
| BASE BID | 111 | B | STORAGE | LCT | 4" RUBBER | PAINTED GYPBOARD | ACOUSTICAL TILE | 10'-0" | |
| BASE BID | 112 | | JANITOR / STORAGE | CER TILE | CER TILE | PAINTED / CER TILE | VINYL FACED GYPSUM PANEL | 10'-0" | |
| BASE BID | 113 | | NOT USED | NOT USED | NOT USED | NOT USED | NOT USED | NOT USED | |
| BASE BID | 114 | | GYMNASIUM | SPORTS FLOOR | 4" RUBBER | PAINTED GYPBOARD | PNT STRUCT / ACOUS SPRAY | VARIES | |
| BASE BID | 115 | | ELECTRICAL | SEALED CONC. | NONE | NONE | EXPOSED STRUCTURE | VARIES | |
| BASE BID | 116 | | SPRINKLER RISER | SEALED CONC. | NONE | NONE | EXPOSED STRUCTURE | VARIES | |
| BASE BID | 117 | | STORAGE | LCT | 4" RUBBER | PAINTED GYPBOARD | ACOUSTICAL TILE | 10'-0" | |
| BASE BID | 118 | | AV / IT | SEALED CONC. | NONE | NONE | EXPOSED STRUCTURE | VARIES | |
| ALTERNATE | 119 | | CORRIDOR | LCT | 4" RUBBER | PAINTED GYPBOARD | ACOUSTICAL TILE | 10'-0" | |
| ALTERNATE | 120 | | STORAGE | LCT | 4" RUBBER | PAINTED GYPBOARD | ACOUSTICAL TILE | 10'-0" | |
| ALTERNATE | 121 | A | ACTIVITY ROOM | SPORTS FLOOR | 4" RUBBER | PAINTED GYPBOARD | ACOUSTICAL TILE | 10'-0" | |
| ALTERNATE | 121 | B | STORAGE | LCT | 4" RUBBER | PAINTED GYPBOARD | ACOUSTICAL TILE | 10'-0" | |
| ALTERNATE | 121 | C | MECHANICAL | SEALED CONC. | NONE | NONE | EXPOSED STRUCTURE | VARIES | |
| ALTERNATE | 122 | A | ACTIVITY ROOM | SPORTS FLOOR | 4" RUBBER | PAINTED GYPBOARD | ACOUSTICAL TILE | 10'-0" | |
| ALTERNATE | 122 | B | STORAGE | LCT | 4" RUBBER | PAINTED GYPBOARD | ACOUSTICAL TILE | 10'-0" | |
| ALTERNATE | 123 | | MECHANICAL | SEALED CONC. | NONE | NONE | EXPOSED STRUCTURE | VARIES | |
| ALTERNATE | 124 | A | ACTIVITY ROOM | SPORTS FLOOR | 4" RUBBER | PAINTED GYPBOARD | ACOUSTICAL TILE | 10'-0" | |
| ALTERNATE | 124 | B | STORAGE | LCT | 4" RUBBER | PAINTED GYPBOARD | ACOUSTICAL TILE | 10'-0" | |
| ALTERNATE | 125 | | STORAGE | LCT | 4" RUBBER | PAINTED GYPBOARD | ACOUSTICAL TILE | 10'-0" | |

NOTES

1 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.
- 8" METAL STUD WALL WITH GYPBOARD EACH SIDE WITH SOUND ATTENTUATION BATTS
- 3 5/8" METAL STUD WALL WITH GYPBOARD EACH SIDE WITH SOUND ATTENUATION BATTS
- 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.

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

| No. | Date | Revision |
|---|---|---|

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Project No. 22246
Date: 31 July 2023
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

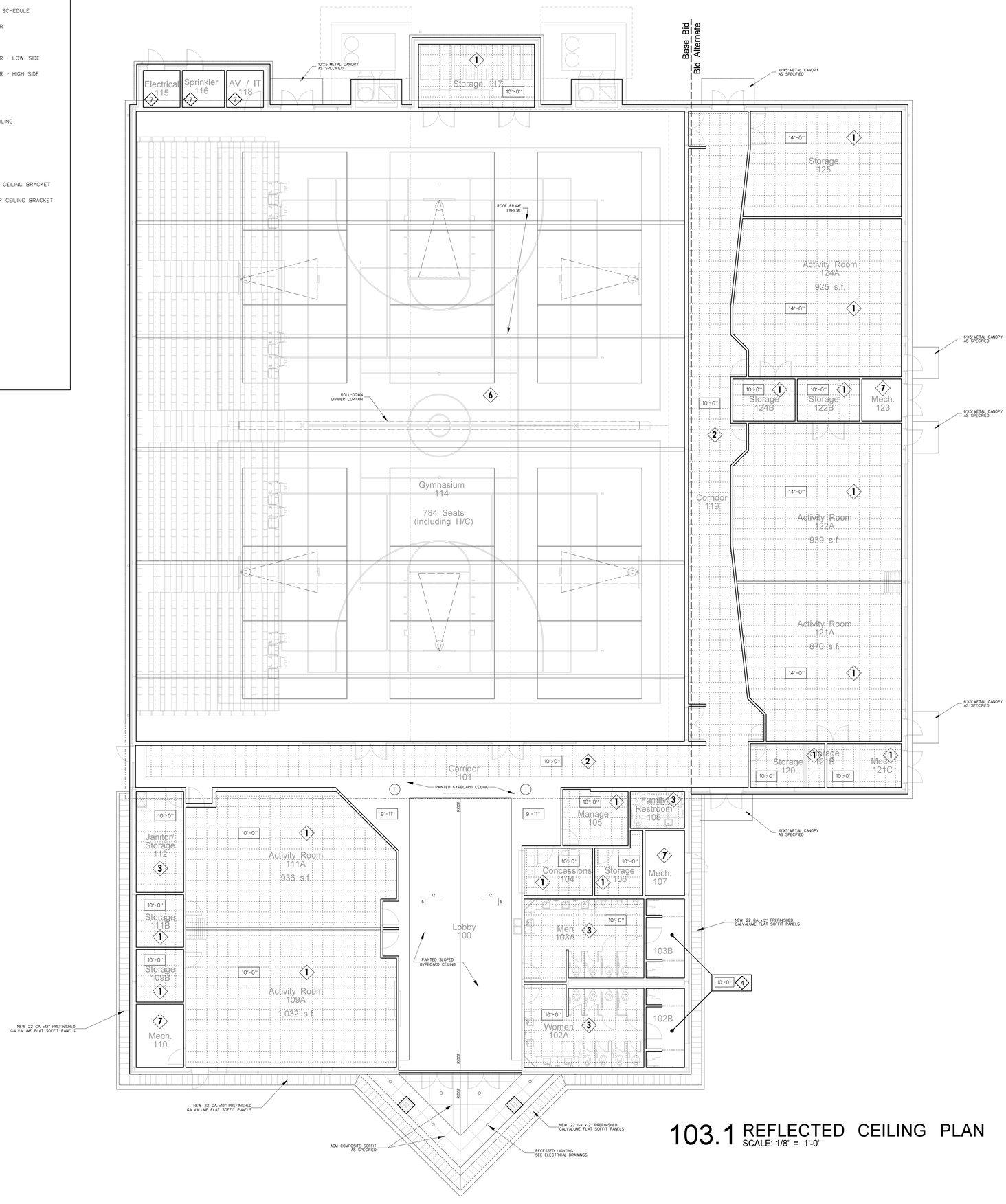
**TYPE** 7

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"

| No. | Date | Revision |
|---|---|---|

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| Project No. | 22246 |
| Date: | 31 July 2023 |
| Drawing no. | A 103 |

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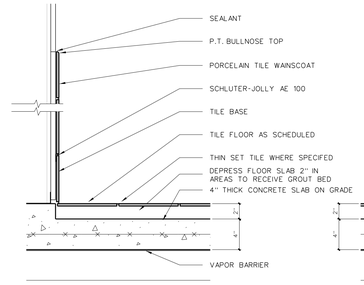
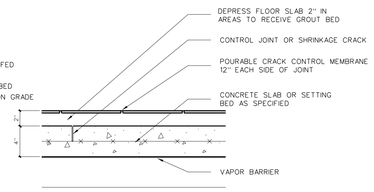
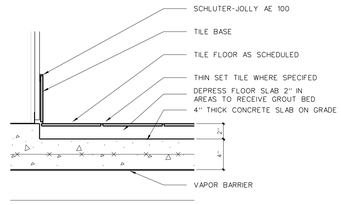



BASE / WAINSCOT DETAIL @ GROUT BED




DETAIL @ CONTROL JOINT

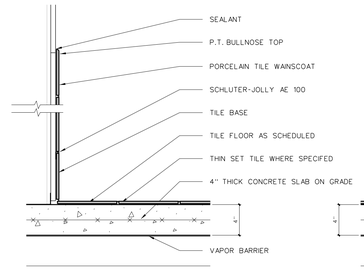



BASE DETAIL @ GROUT BED

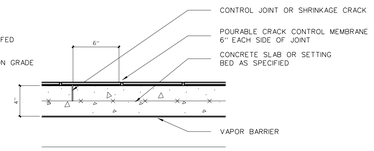
## Toilet Accessory Schedule

| 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 |

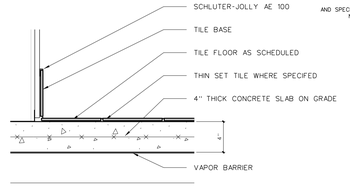
ALL MODEL NUMBERS REFERENCE BOBRICK ACCESSORY
PROVIDE BLOCKING AS REQUIRED FOR TOILET ACCESSORIES AND DOOR STOPS



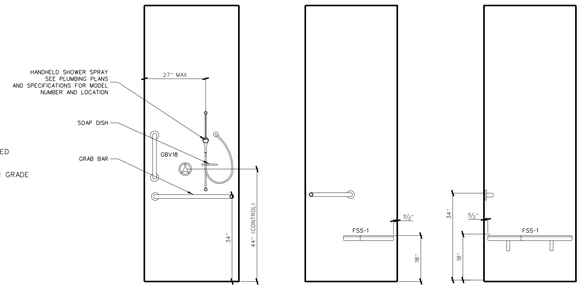

BASE / WAINSCOT DETAIL FOR THIN SET TILE



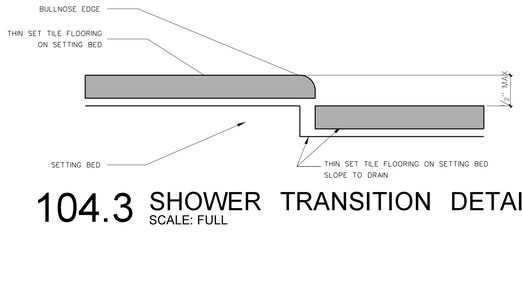

THIN SET TILE DETAIL @ CONTROL JOINT




BASE DETAIL FOR THIN SET TILE

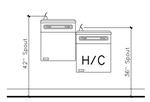



104.4 H/C Shower Elevation
SCALE: 1/2" = 1'-0"

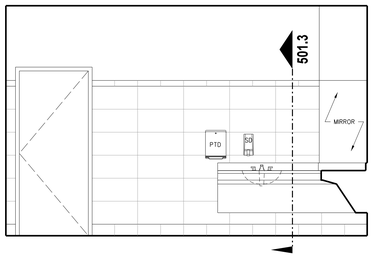



104.3 SHOWER TRANSITION DETAIL
SCALE: FULL

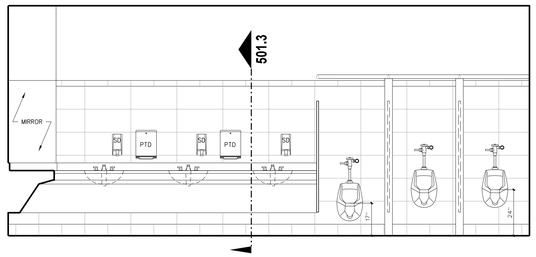
104.5 TILE DETAILS
SCALE: 1 1/2" = 1'-0"



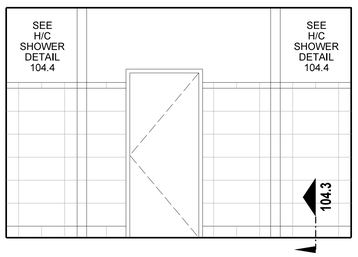

A LOBBY



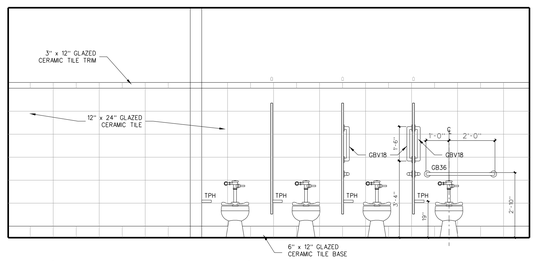

B MEN 103A



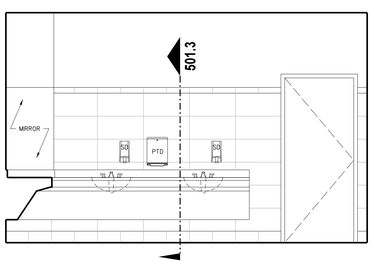

A MEN 103A



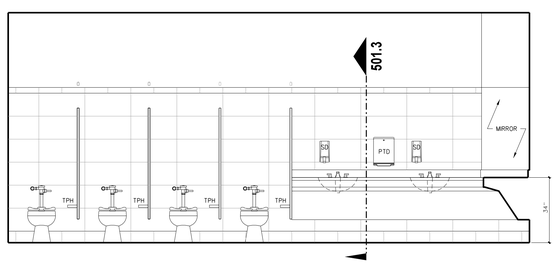

D WOMEN 102B (MEN 103B O.H.)




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

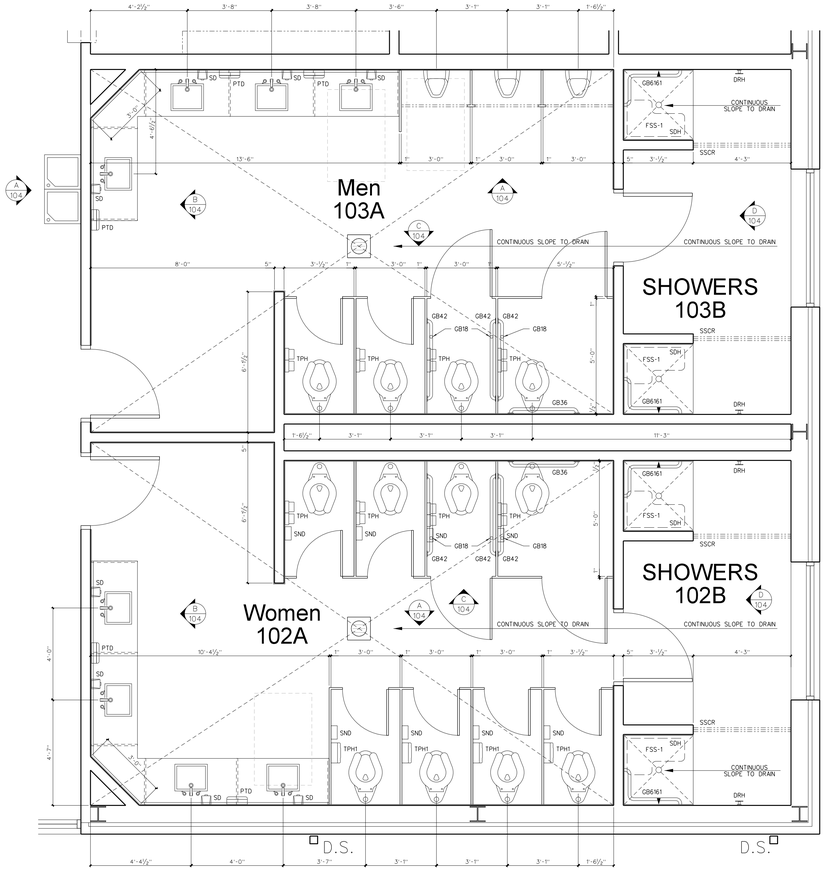



B WOMEN 102A




A WOMEN 102A

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




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

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JAMES GRAY HITE REGISTERED ARCHITECT 3754 GREENVILLE

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Project No. 22246
Date: 31 July 2023
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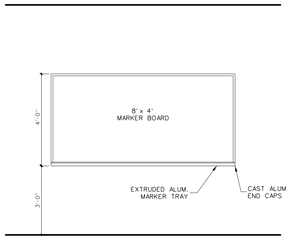
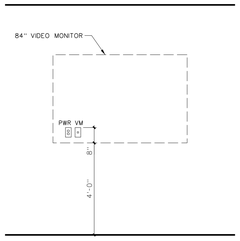
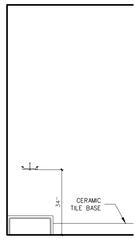


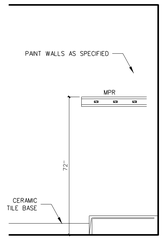

B ACTIVITY ROOM(S)




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 |
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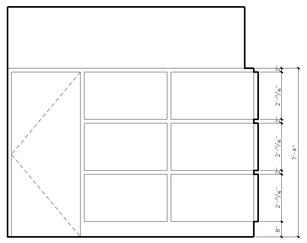
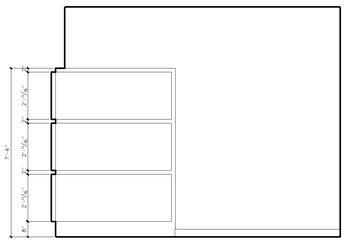
| MPR | BOBRICK 239x34 | MOP RACK | ONE EACH CUSTODIAN ROOM | PLACE OVER MOP SINK |

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




A MANAGER 105

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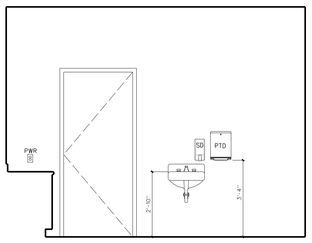
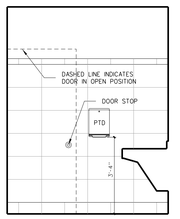
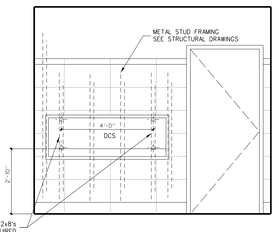


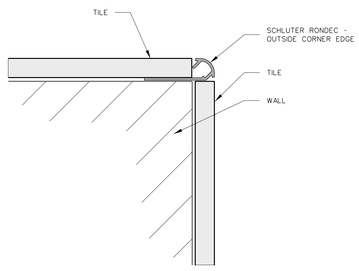

C CONCESSIONS 104



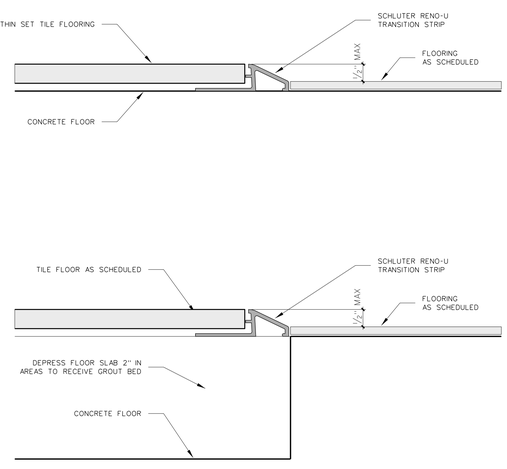

D RESTROOM 108



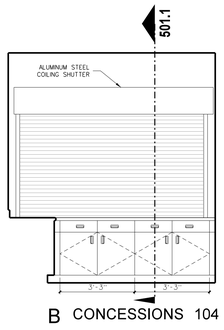

C RESTROOM 108



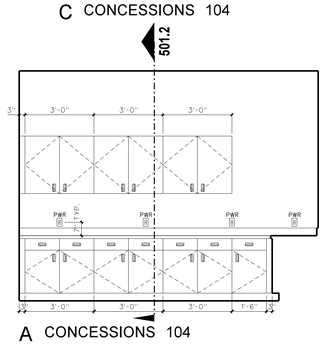

105.4 TYPICAL OUTSIDE CORNER DETAIL
SCALE: FULL SIZE



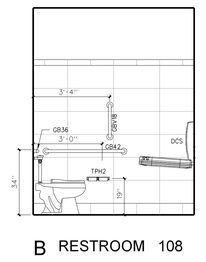

105.3 FLOOR TRANSITION DETAILS
SCALE: FULL SIZE



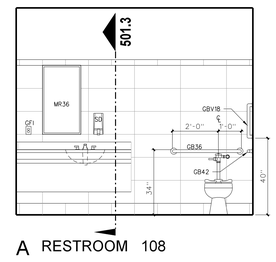

B CONCESSIONS 104




A CONCESSIONS 104

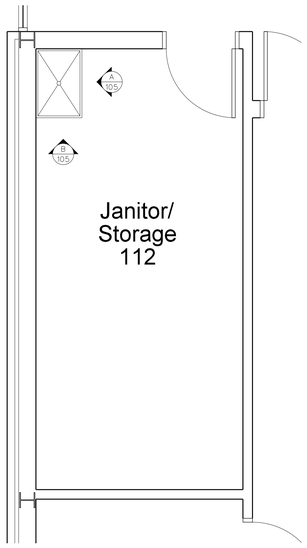


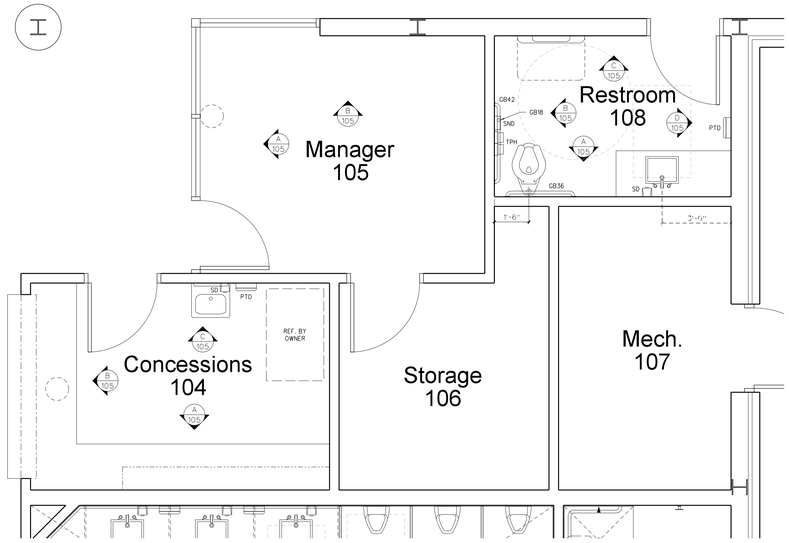

B RESTROOM 108




A RESTROOM 108

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




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

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CERTIFICATE NUMBER C-418
REGISTERED
GREENVILLE, NC

JAMES GRAY HITE
REGISTERED
ARCHITECT
3754
GREENVILLE, NC

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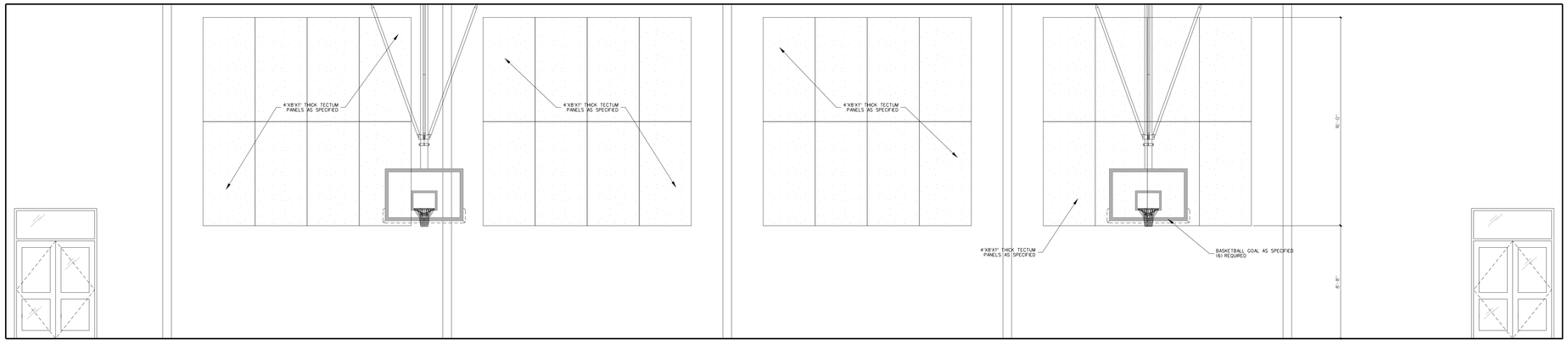
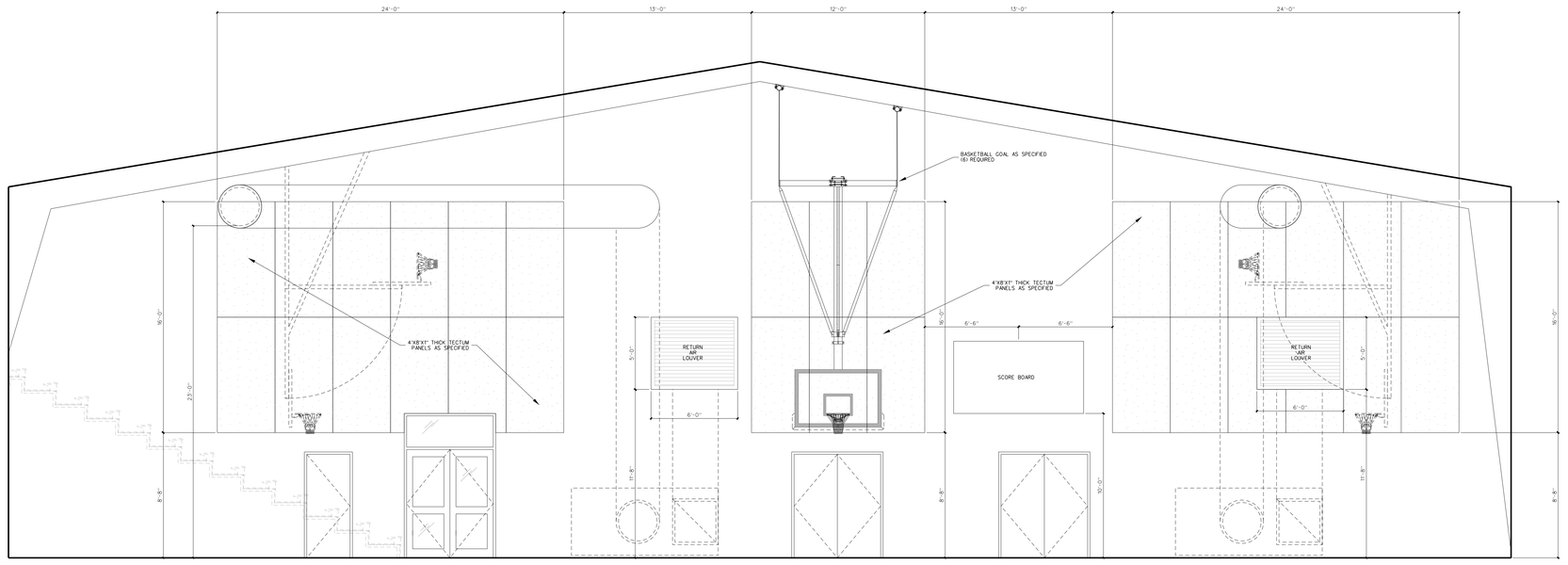



B GYMNASIUM 114




A GYMNASIUM 114

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

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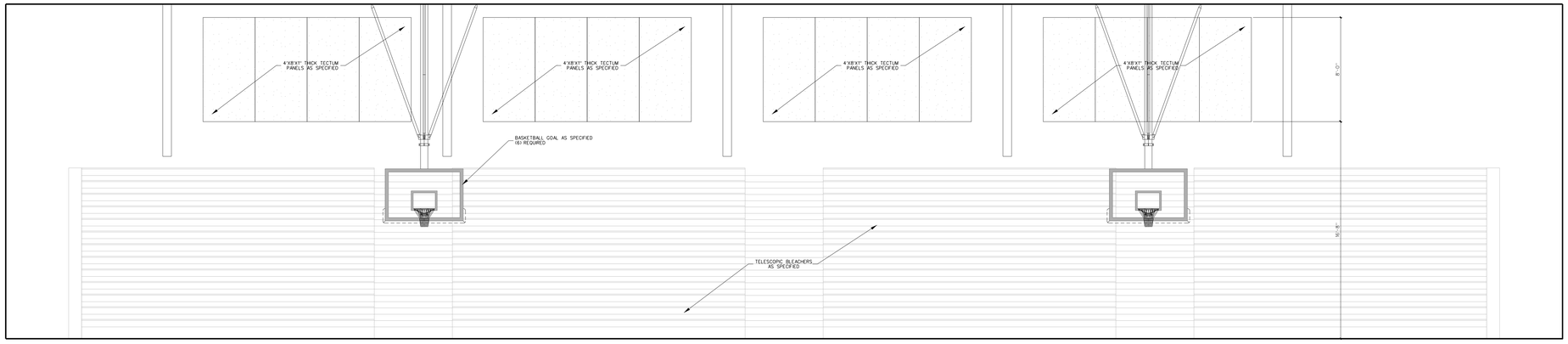
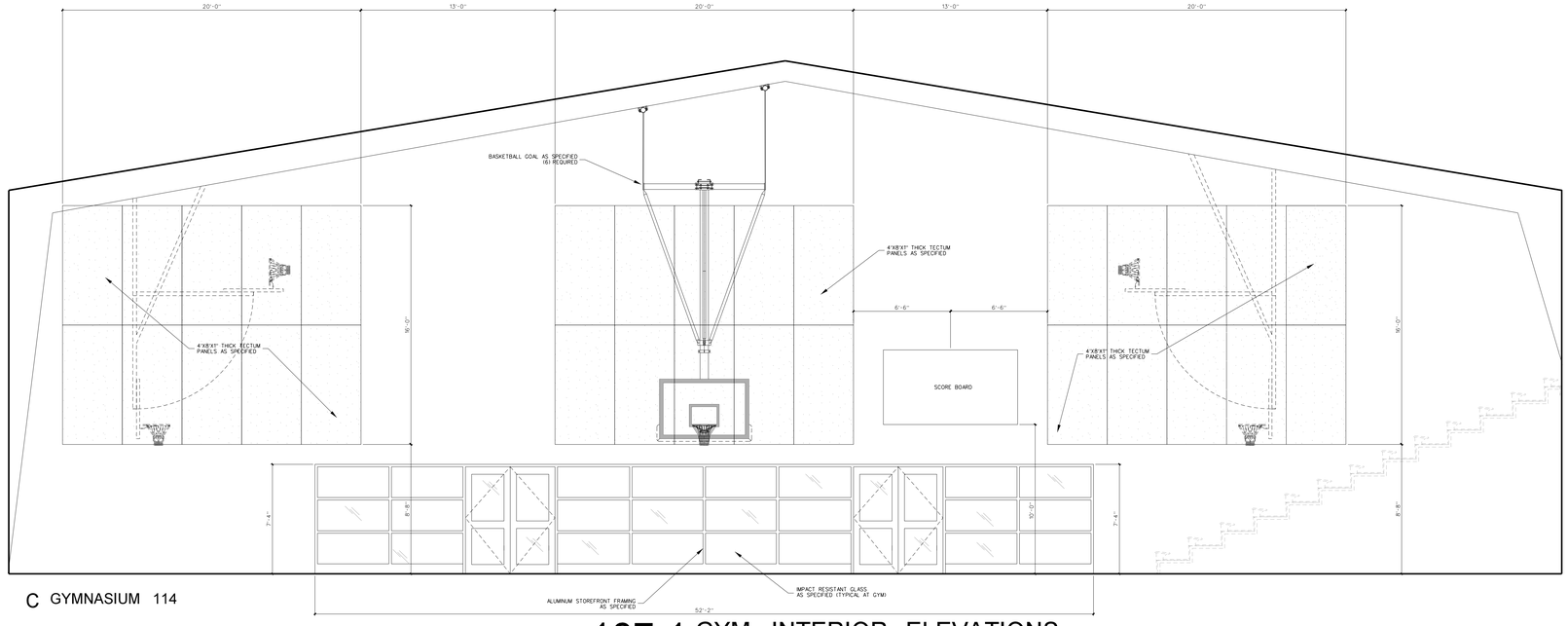



D GYMNASIUM 114




C GYMNASIUM 114

# 107.1 GYM INTERIOR ELEVATIONS

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

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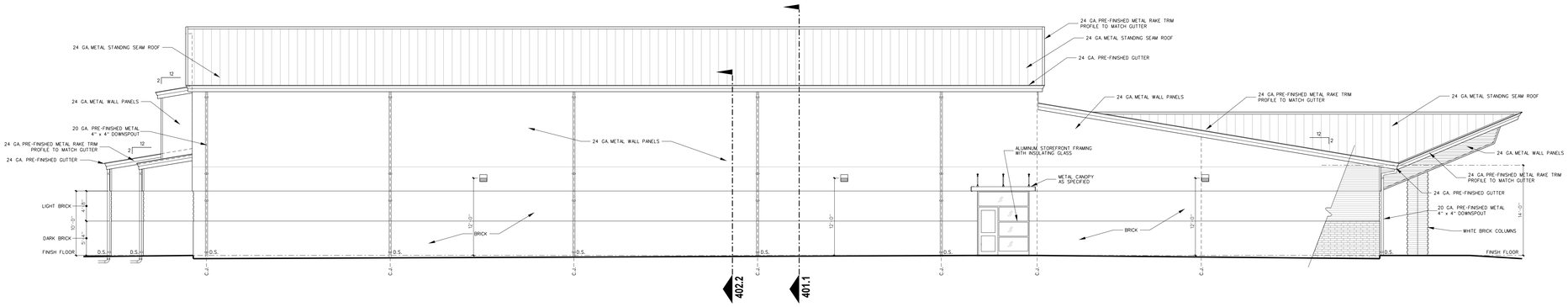
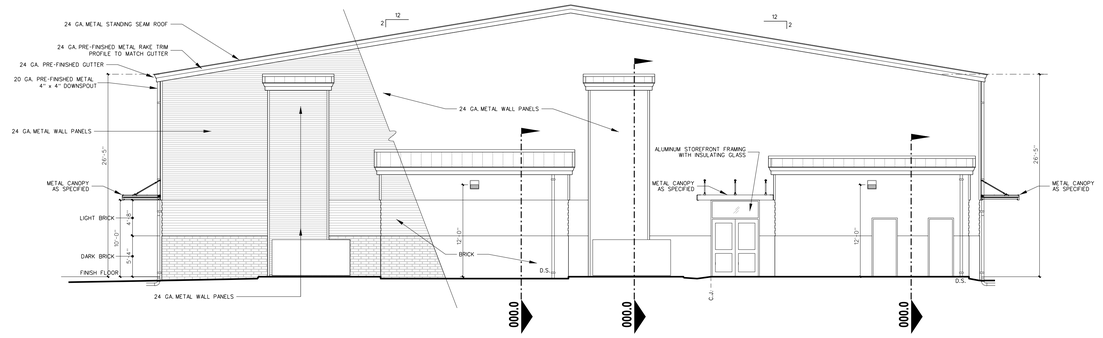
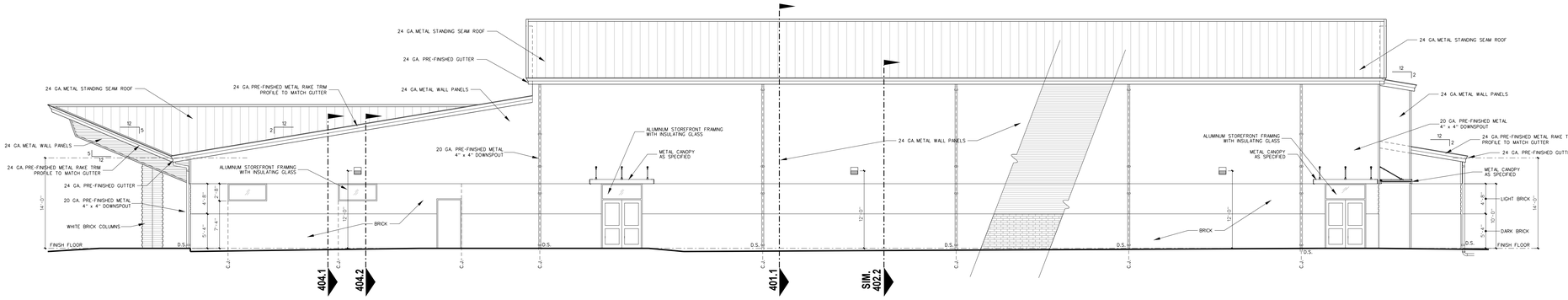


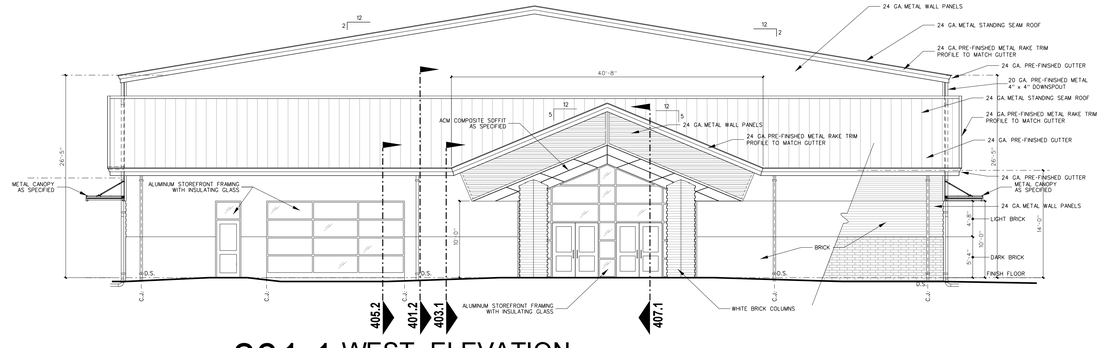

# 201.4 NORTH ELEVATION
SCALE: 1/8" = 1'-0"




# 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"

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|---|---|---|

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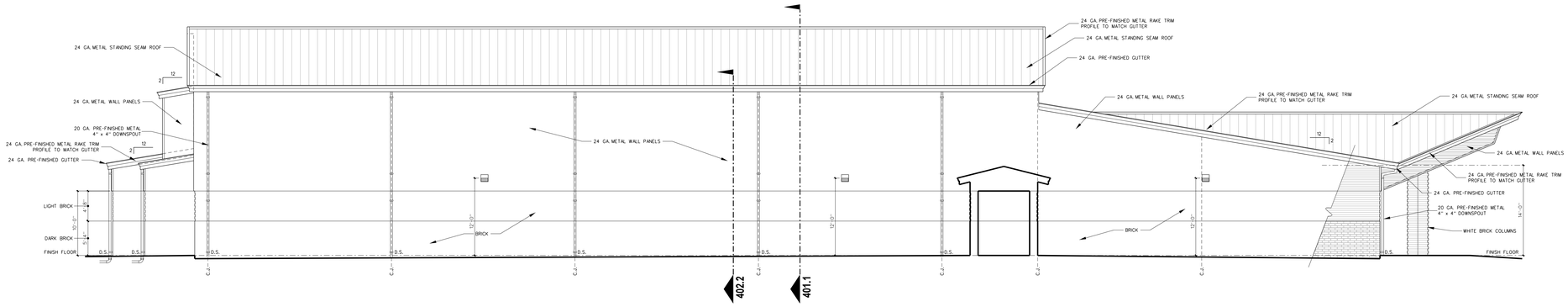
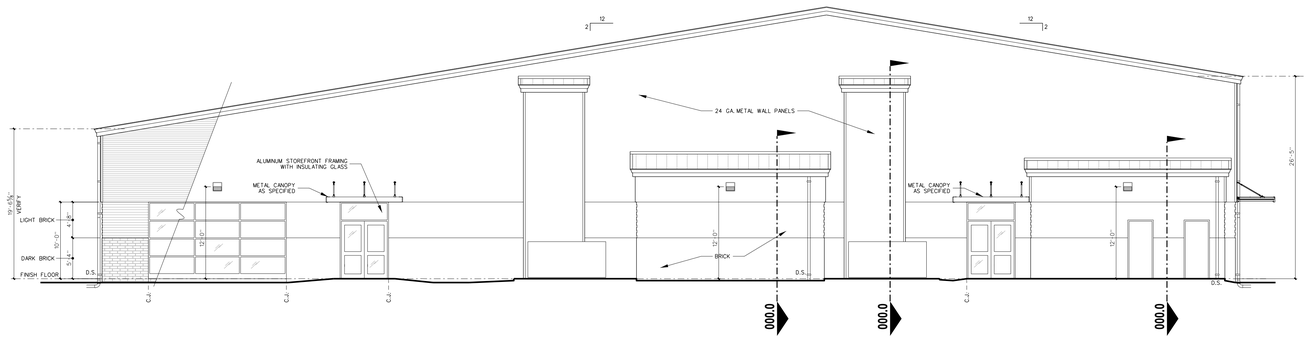
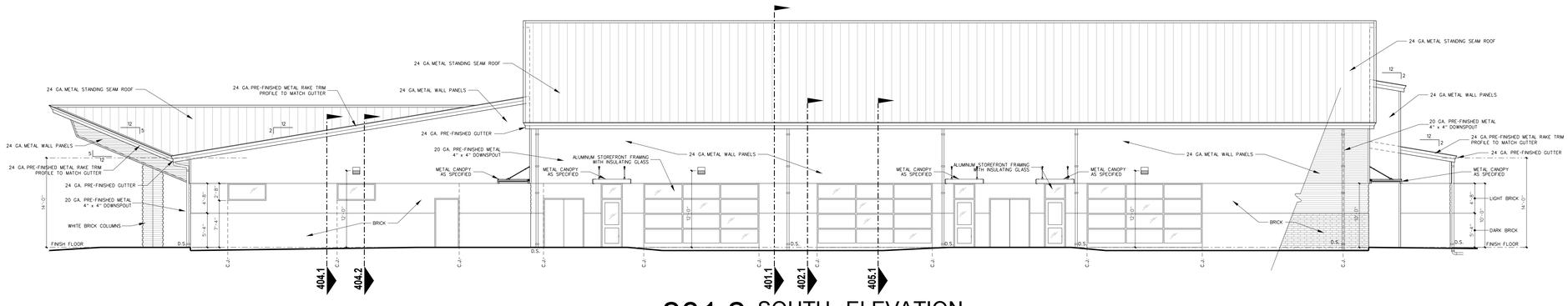


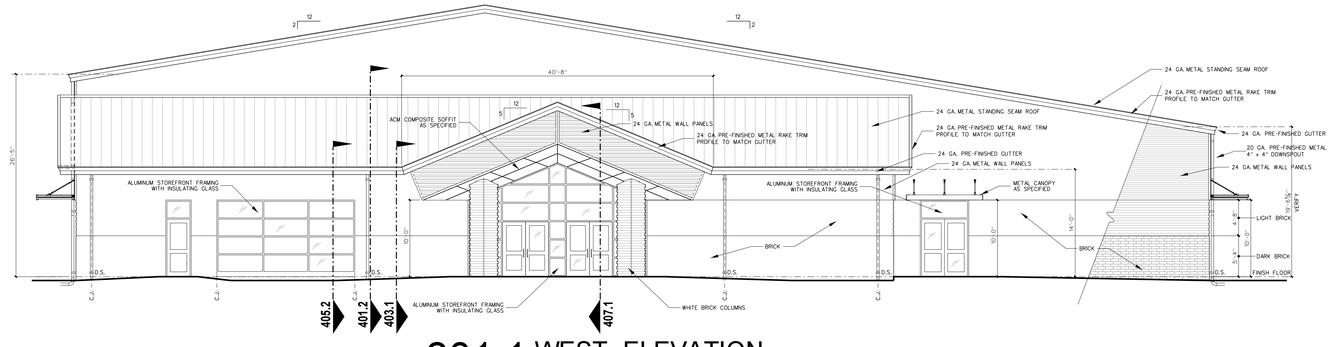

## 201.4 NORTH ELEVATION
SCALE: 1/8" = 1'-0"




## 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 |
|---|---|---|

**Hite associates**
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JAMES GRAY HITE — REGISTERED ARCHITECT 3755 — GREENVILLE, N.C.

COMMUNITY CENTER AND GYMNASIUM FOR

# Pitt County Office Park

Government Cir., Greenville, NC 27858

Project No. 22246

Date: 31 July 2023

Drawing no. A 201 ALTERNATE BID

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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 MANUAL OP DOOR OPENER | EXIT DEVICE | CLOSER | CLOSER WITH BACKSTOP | AUTO CLOSING HINGES (SET) | LOCK & KEY SET (SET OF TWO) | WALL STOP | FLOOR STOP | OVERHEAD STOP | HOOD STOP | PASS DBLE LATCH (LATCH & BOLT) | LEAD LINED DOOR | SEAMLESS WITH THUMBTURN | ASTRAGAL | PASSIVE X-MOD COORDINATOR | PRIVACY SET | MORTISE LOCKSET WITH INDICATOR | WATER OR GRAVITY LOCKSET | CLASSROOM LOCKSET | CLASSROOM DEADBOLT | MOHAIR SEAL | GASKETING | MAGNETIC HOLD-OPEN | AUTO OPERATOR | SURFACE MTD DEVICES BOTTOM MOD | PROVIDE RAISED/FLUSH 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 | | |
| 100C | | 1.75 | 36 | 90 | CORRIDOR TO EXTERIOR | AL-3 | ALUMINUM / GLASS | 4.5 | | 1 | 1 | 1 | | 1 | | | | | | | | | | | | | | | | | | | | | 1 | | |
| 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 | | | | | | | | | | | | | | | |
| 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 | | | |
| 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 | | | | | | | | 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 | | | | | | | | | | | | | | | | 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

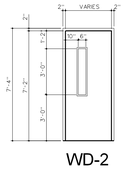
NOTE TO BIDDERS / BUILDER: EXCEL SPREADSHEET AVAILABLE ON REQUEST

| MARK | | SIZE THK | SIZE WID | SIZE HT | LOCATION | TYPE | DESCRIPTION | FRM WID | FIRE RATING | ELECTRONIC ACCESS CONTROL LOCKSET | ELECTRONIC ACCESS CONTROL EXIT DEVICE | AUTO MANUAL OP DOOR OPENER | EXIT DEVICE | CLOSER | CLOSER WITH BACKSTOP | AUTO CLOSING HINGES (SET) | LOCK & KEY SET (SET OF TWO) | WALL STOP | FLOOR STOP | OVERHEAD STOP | HOOD STOP | PASS DBLE LATCH (LATCH & BOLT) | LEAD LINED DOOR | SEAMLESS WITH THUMBTURN | ASTRAGAL | PASSIVE X-MOD COORDINATOR | PRIVACY SET | MORTISE LOCKSET WITH INDICATOR | WATER OR GRAVITY LOCKSET | CLASSROOM LOCKSET | CLASSROOM DEADBOLT | MOHAIR SEAL | GASKETING | MAGNETIC HOLD-OPEN | AUTO OPERATOR | SURFACE MTD DEVICES BOTTOM MOD | PROVIDE RAISED/FLUSH 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 | | |
| 100C | | 1.75 | 36 | 90 | CORRIDOR TO EXTERIOR | AL-3 | ALUMINUM / GLASS | 4.5 | | 1 | 1 | 1 | | 1 | | | | | | | | | | | | | | | | | | | | | 1 | | |
| 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 | | | | | | | | | | | | | | | |
| 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 | 86 | 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 | | | |
| 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 | | | | | | | | 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 |

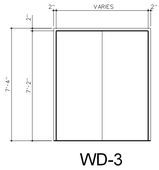
WD-1

SOLID CORE FLUSH WOOD IN STEEL FRAME



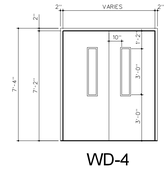

WD-2

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



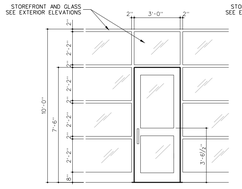

WD-3

SOLID CORE FLUSH WOOD IN STEEL FRAME



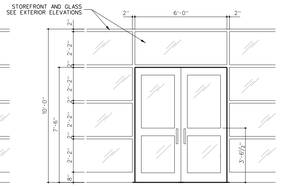

WD-4

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



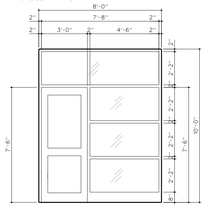

AL-1

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



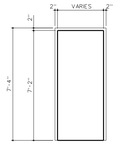

AL-2

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



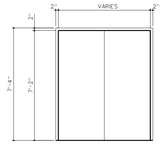

AL-3

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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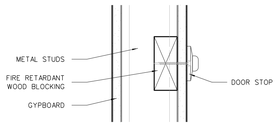
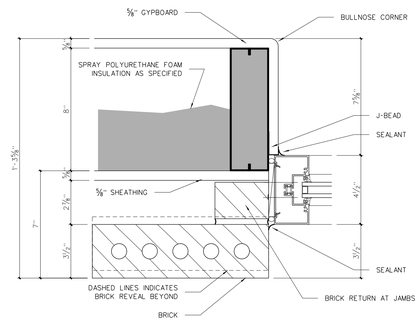
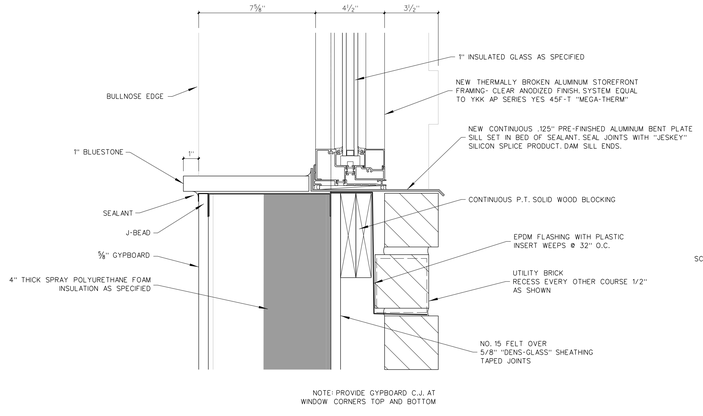



## 302.12 DOOR STOP DETAIL
SCALE: 3" = 1'-0"

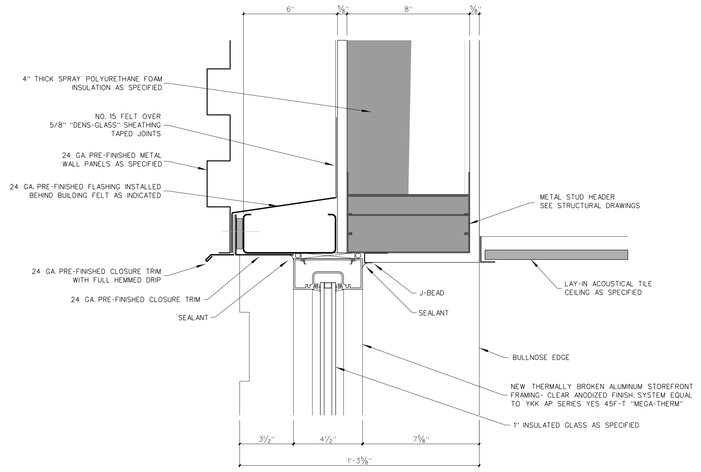



## 302.11 JAMB

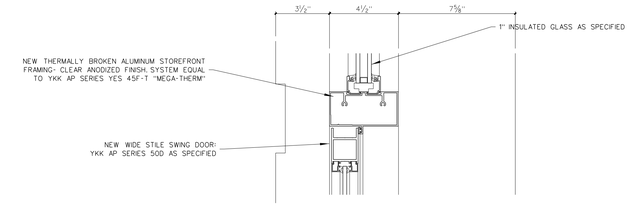



## 302.10 SILL

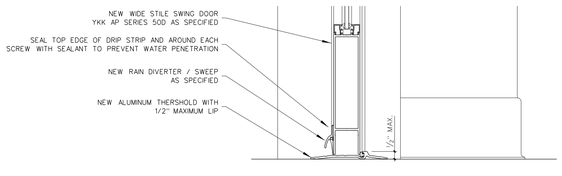
# 302 WINDOW DETAILS
SCALE: 3" = 1'-0"



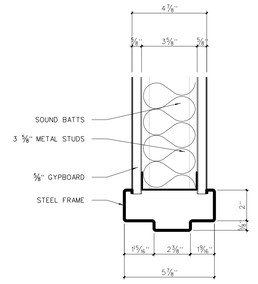

## 302.9 TRANSOM / WINDOW HEAD
SCALE: 3" = 1'-0"



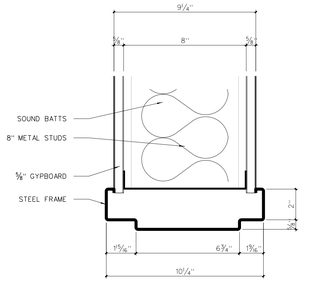

## 302.8 DOOR HEAD
SCALE: 3" = 1'-0"



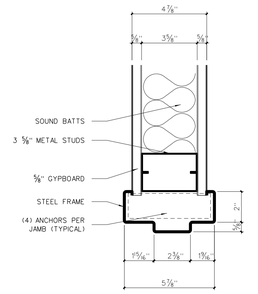

## 302.7 DOOR THRESHOLD DETAIL
SCALE: 3" = 1'-0"



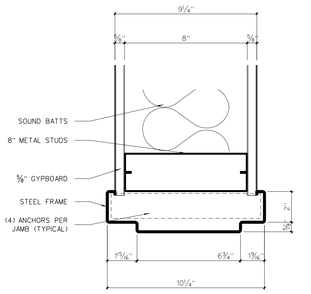

## 302.6 HEAD



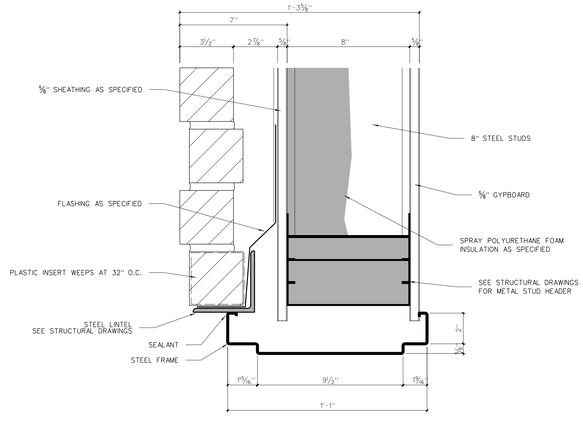

## 302.5 HEAD



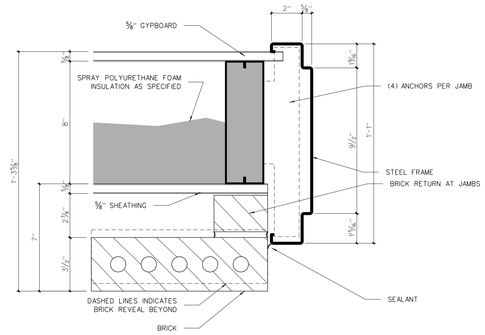

## 302.4 JAMB




## 302.3 JAMB




## 302.2 HEAD




## 302.1 JAMB

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

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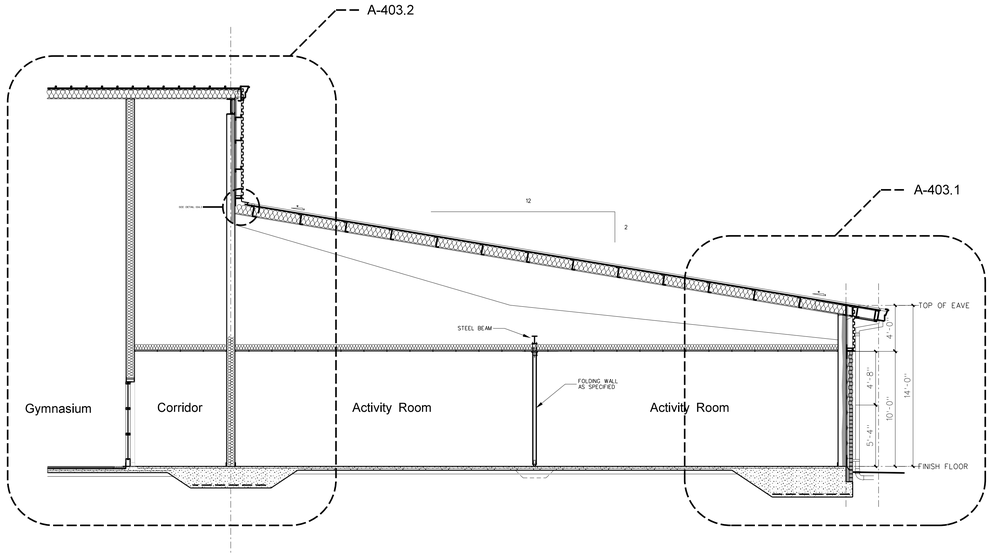
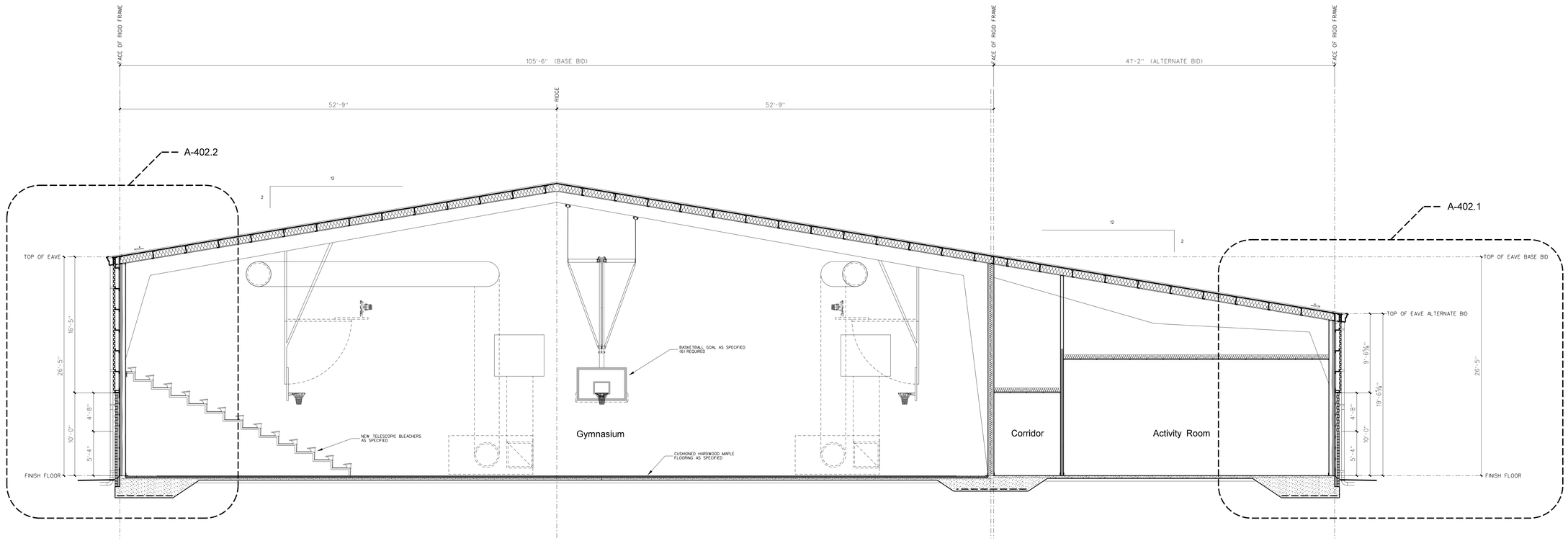



## 401.2 BUILDING SECTION
SCALE: 3/16" = 1'-0"




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

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

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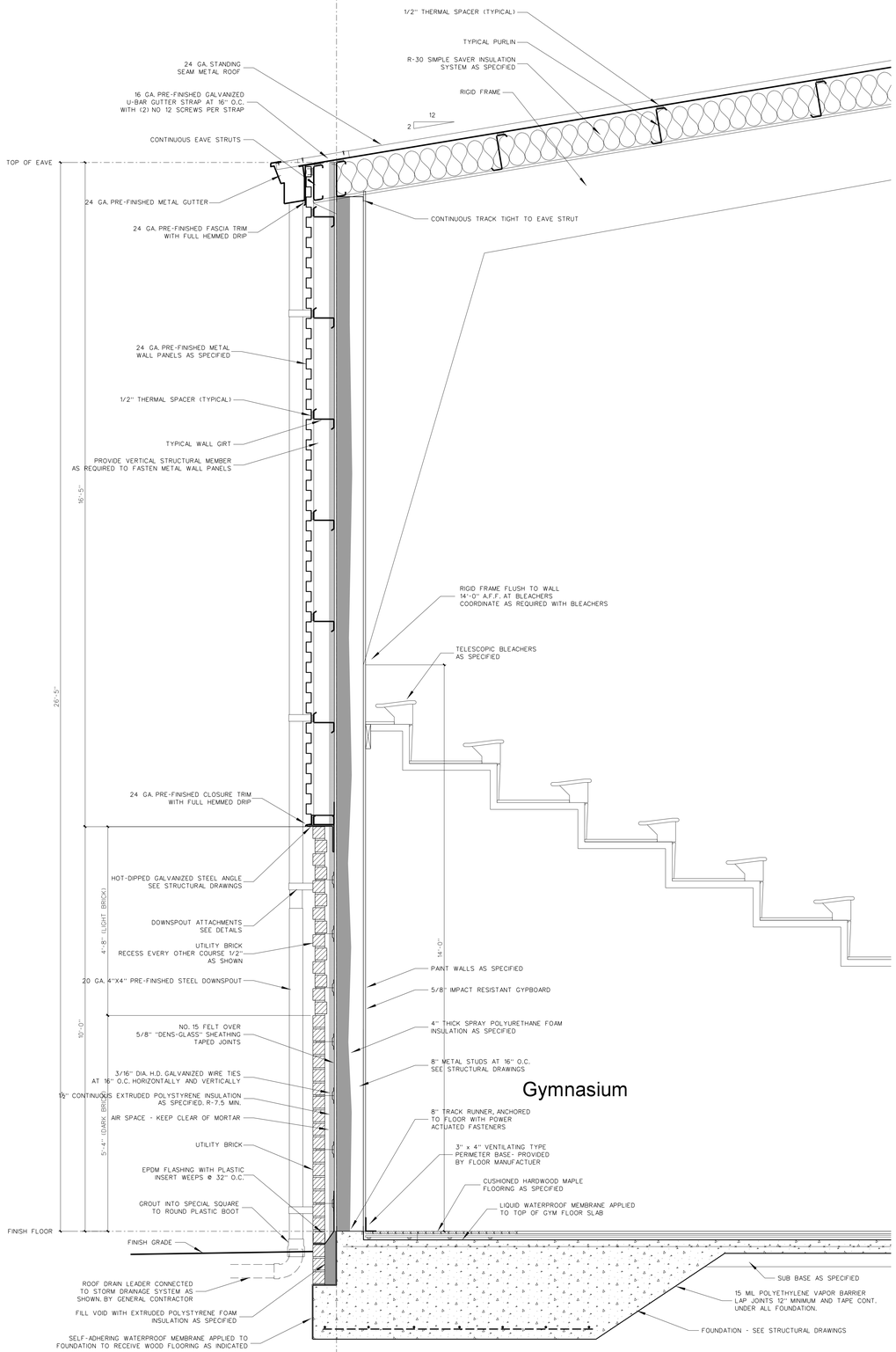
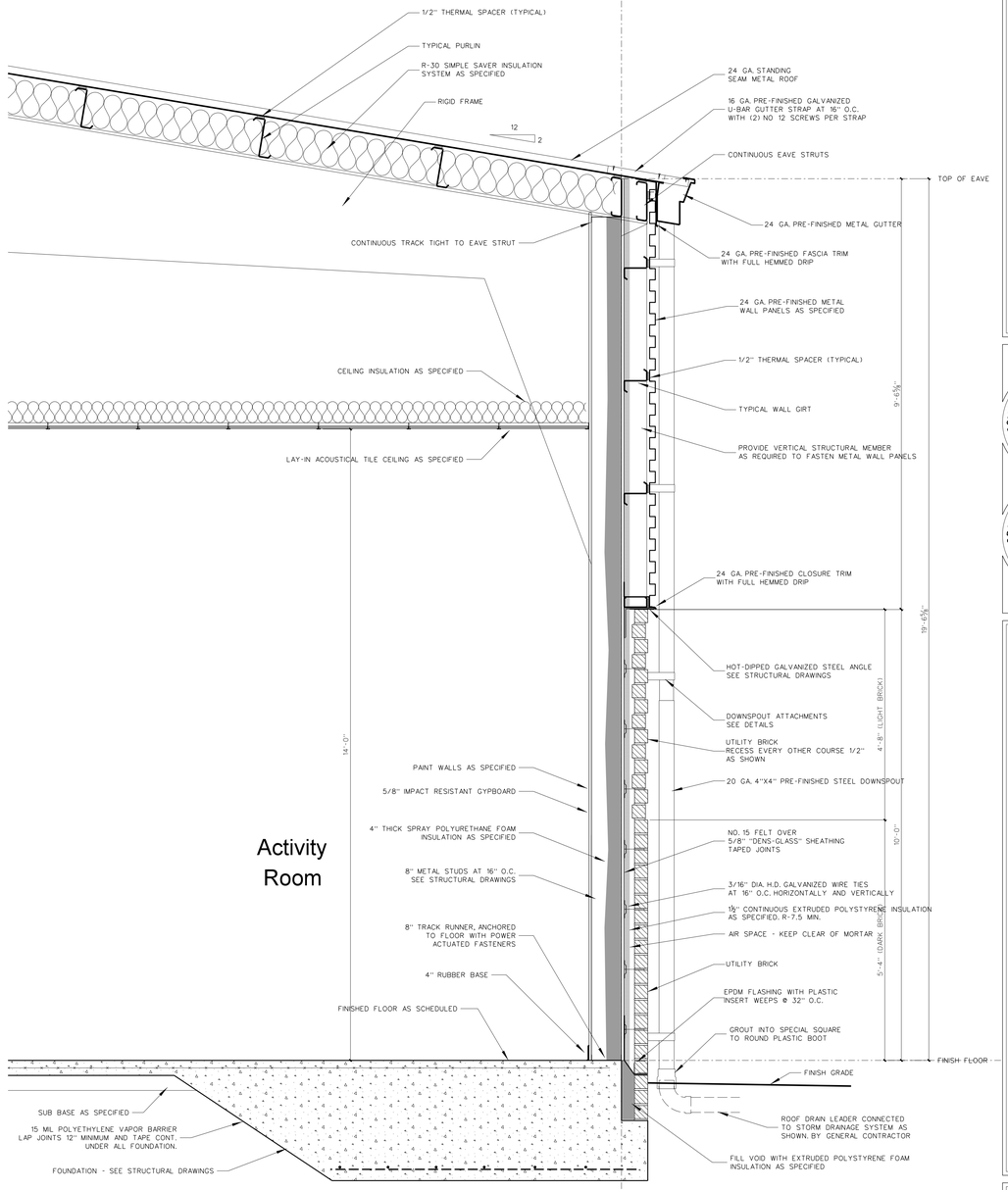



## 402.2 WALL SECTION
SCALE: 3/4" = 1'-0"




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

| No. | Date | Revision |
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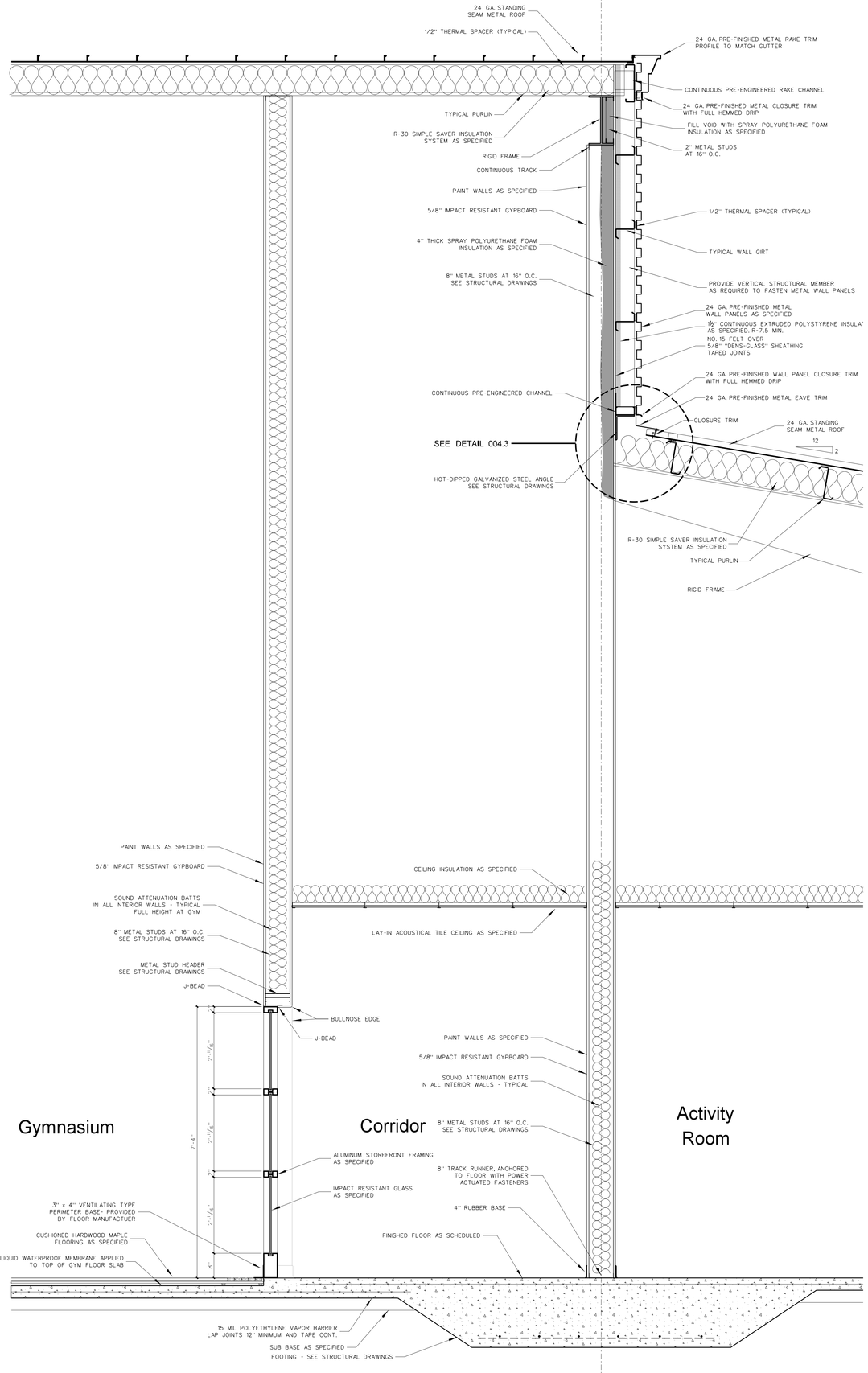
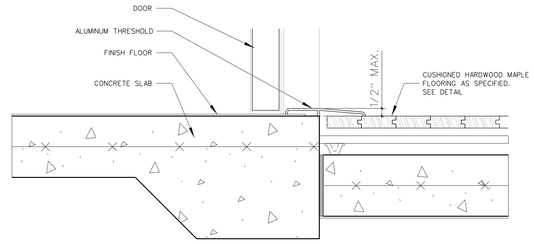
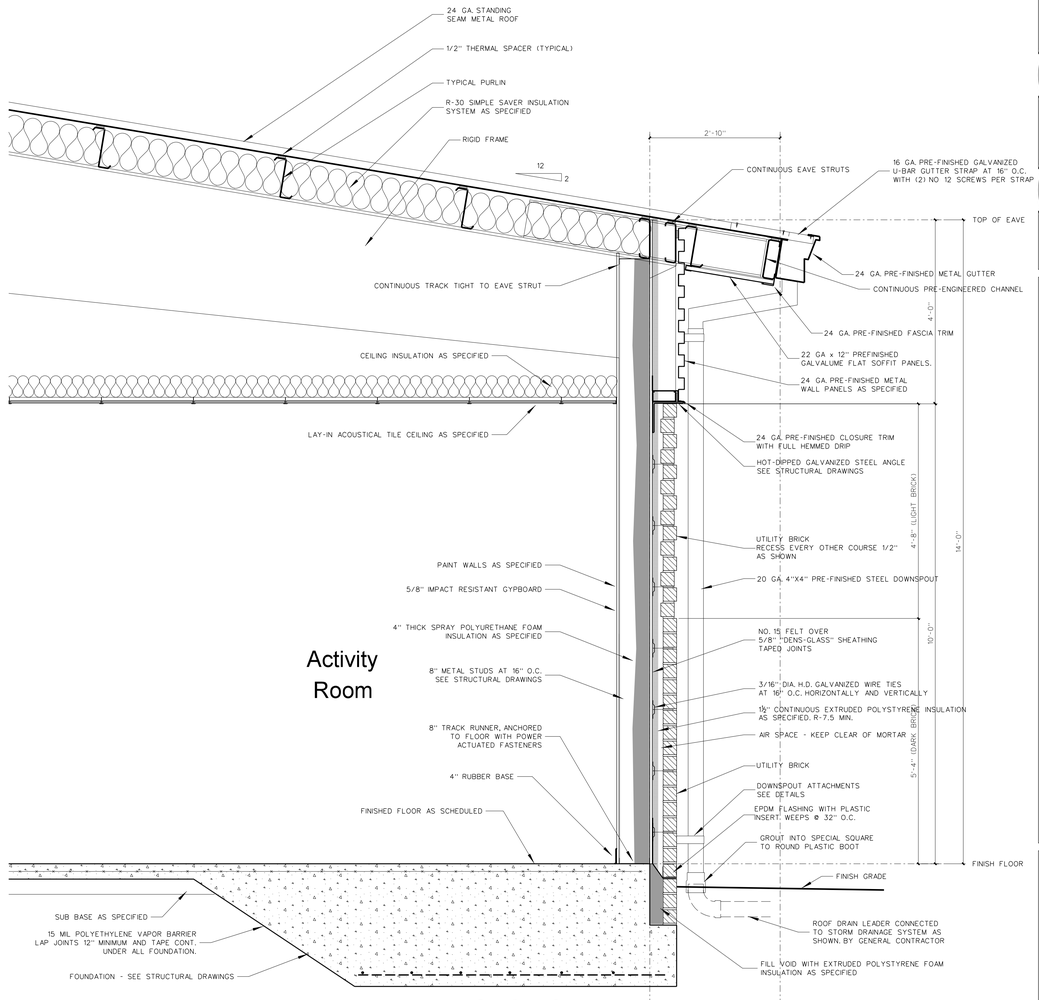



## 403.2 WALL SECTION
SCALE: 3/4" = 1'-0"




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




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

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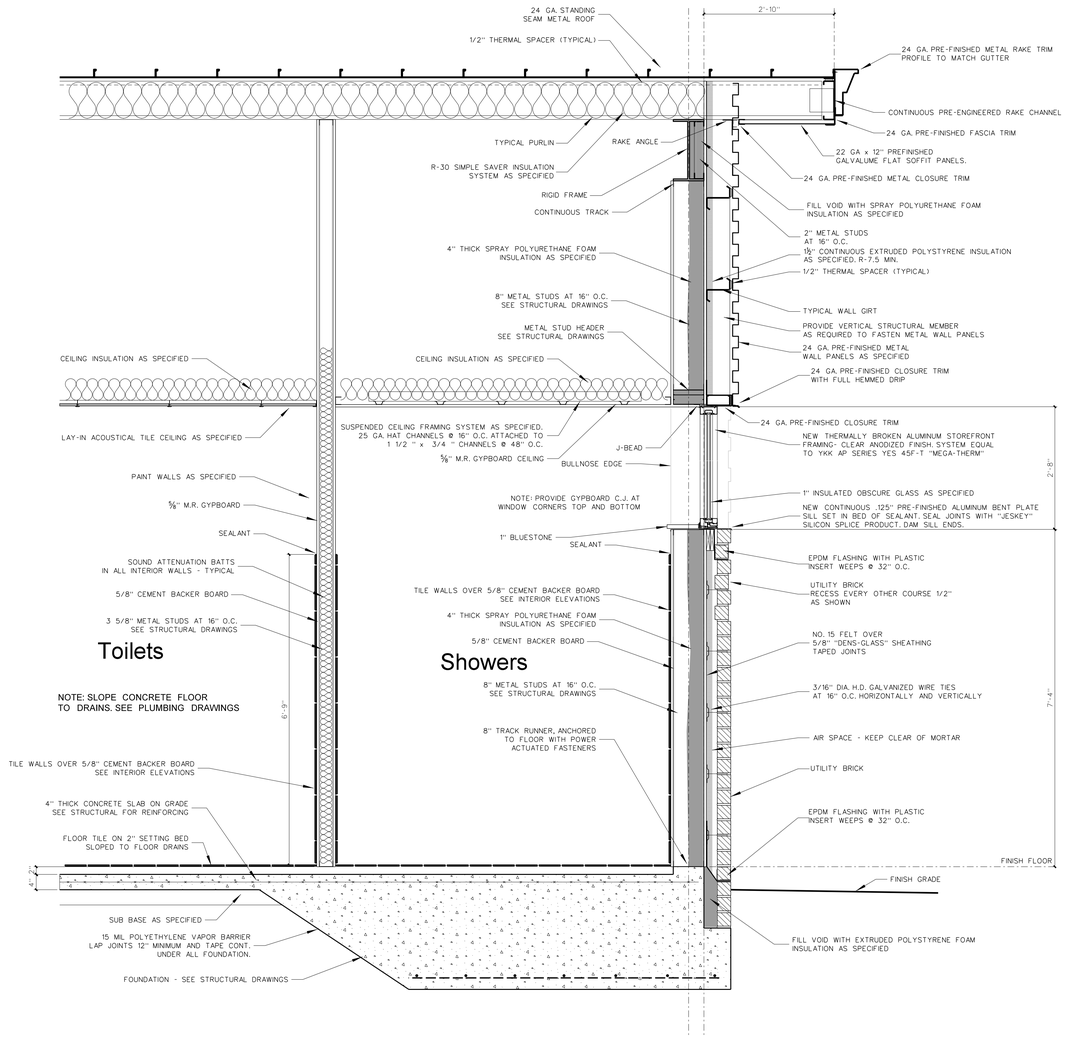
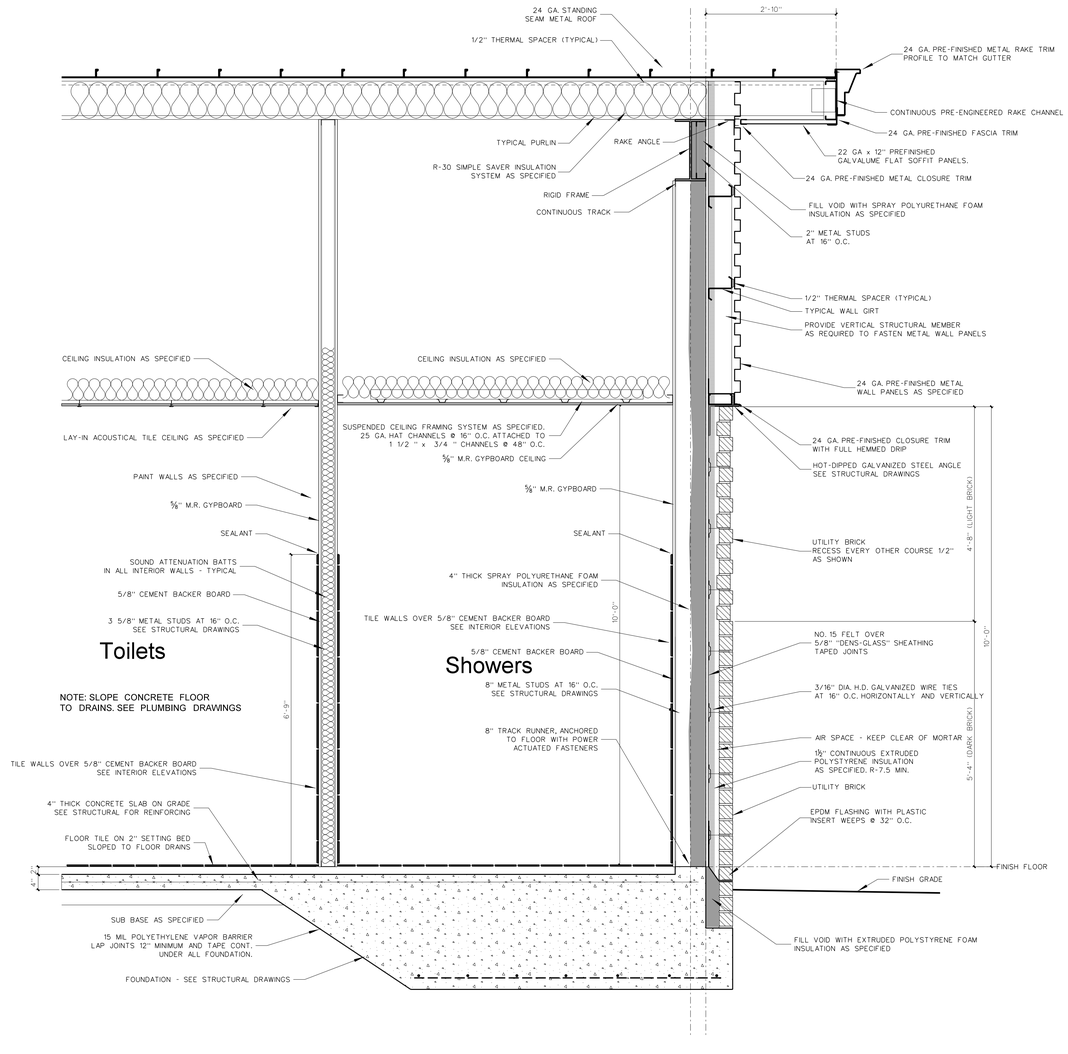



## 404.2 WALL SECTION AT WINDOW
SCALE: 3/4" = 1'-0"




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

| No. | Date | Revision |
|---|---|---|

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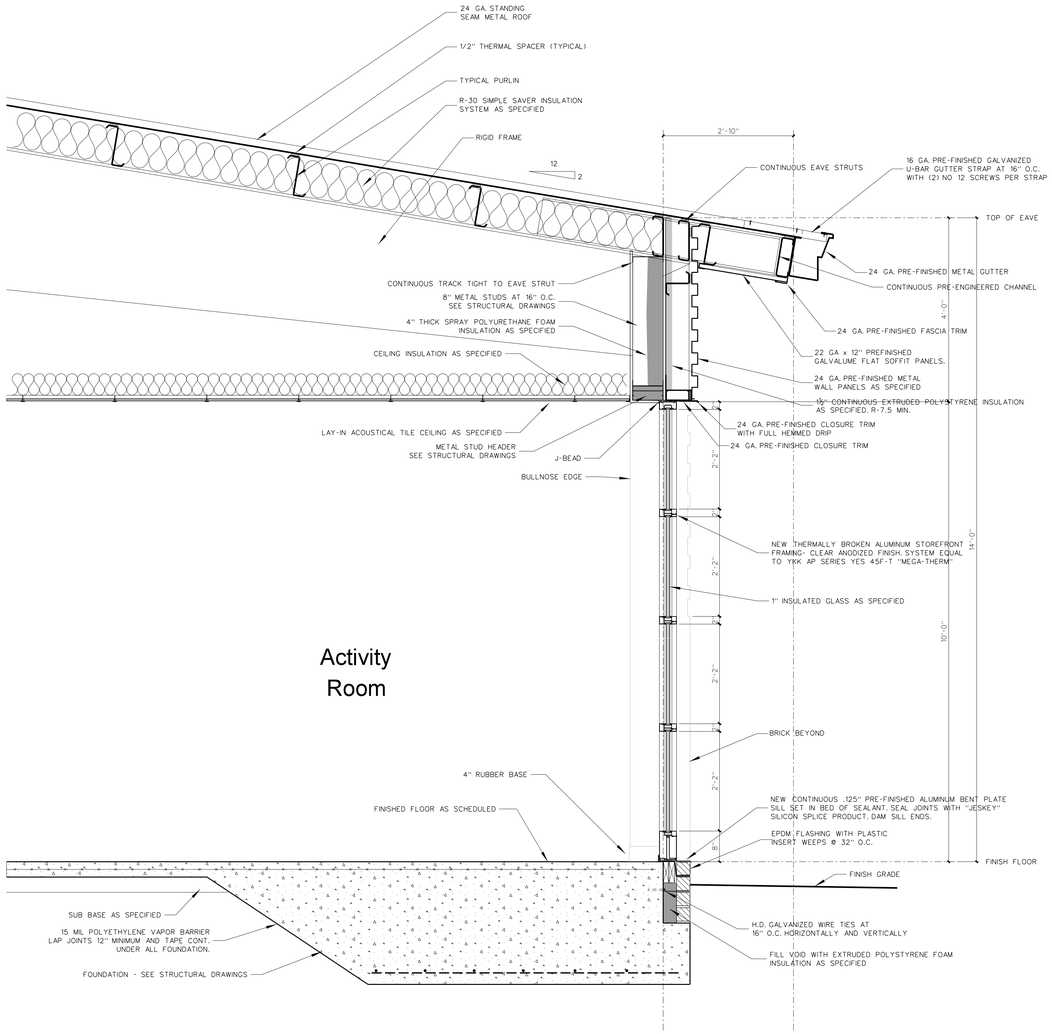
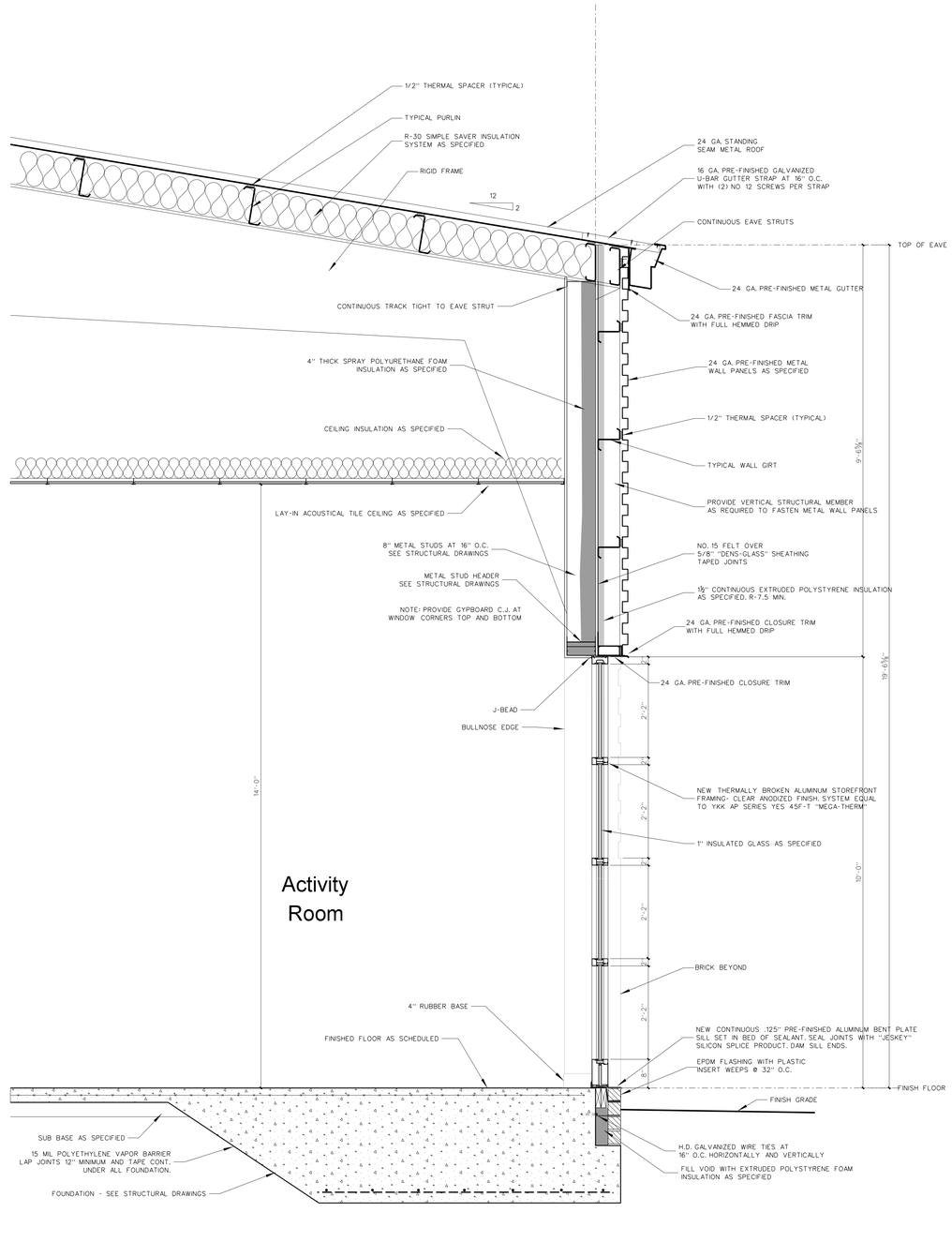



## 405.2 WALL SECTION AT WINDOW
SCALE: 3/4" = 1'-0"




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

| No. | Date | Revision |
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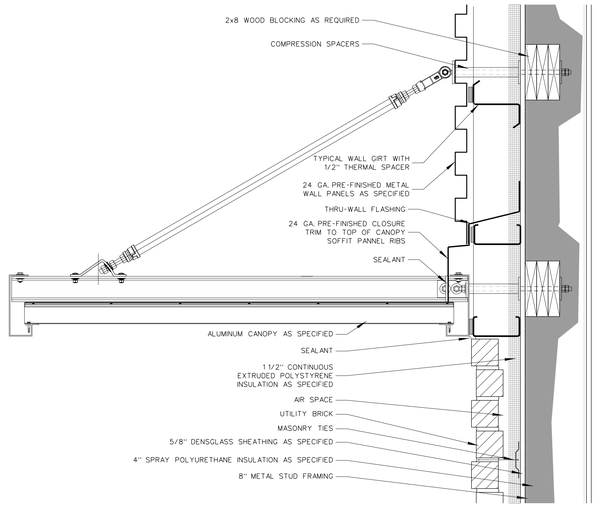
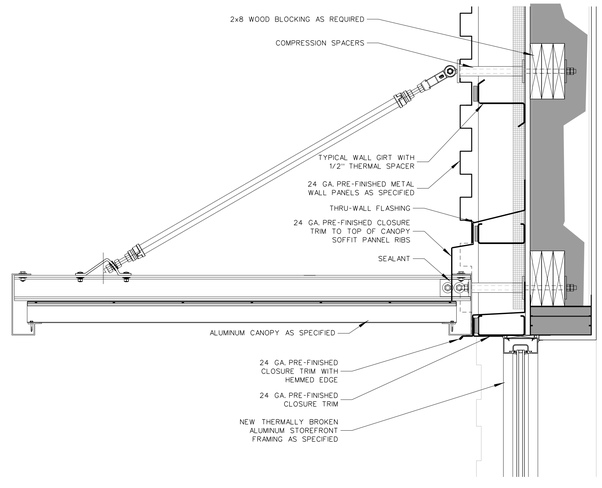



406.2 DETAIL AT ALUMINUM CANOPY (TYPICAL)
SCALE: 1-1/2" = 1'-0"




406.1 DETAIL AT ALUMINUM CANOPY (TYPICAL)
SCALE: 1-1/2" = 1'-0"

| No. | Date | Revision |
|---|---|---|
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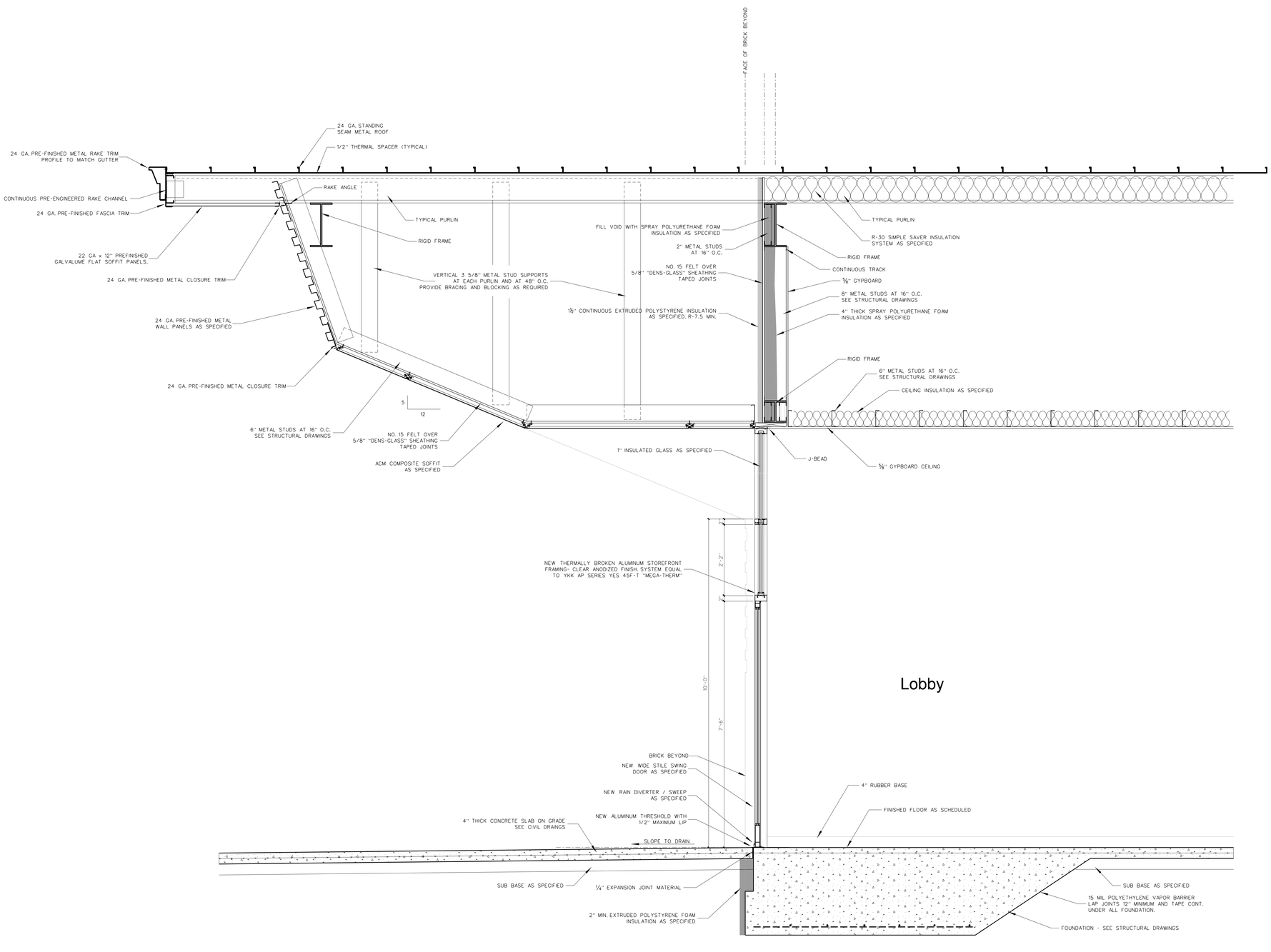


# 407.1 WALL SECTION AT FRONT ENTRY
SCALE: 3/4" = 1'-0"

| No. | Date | Revision |
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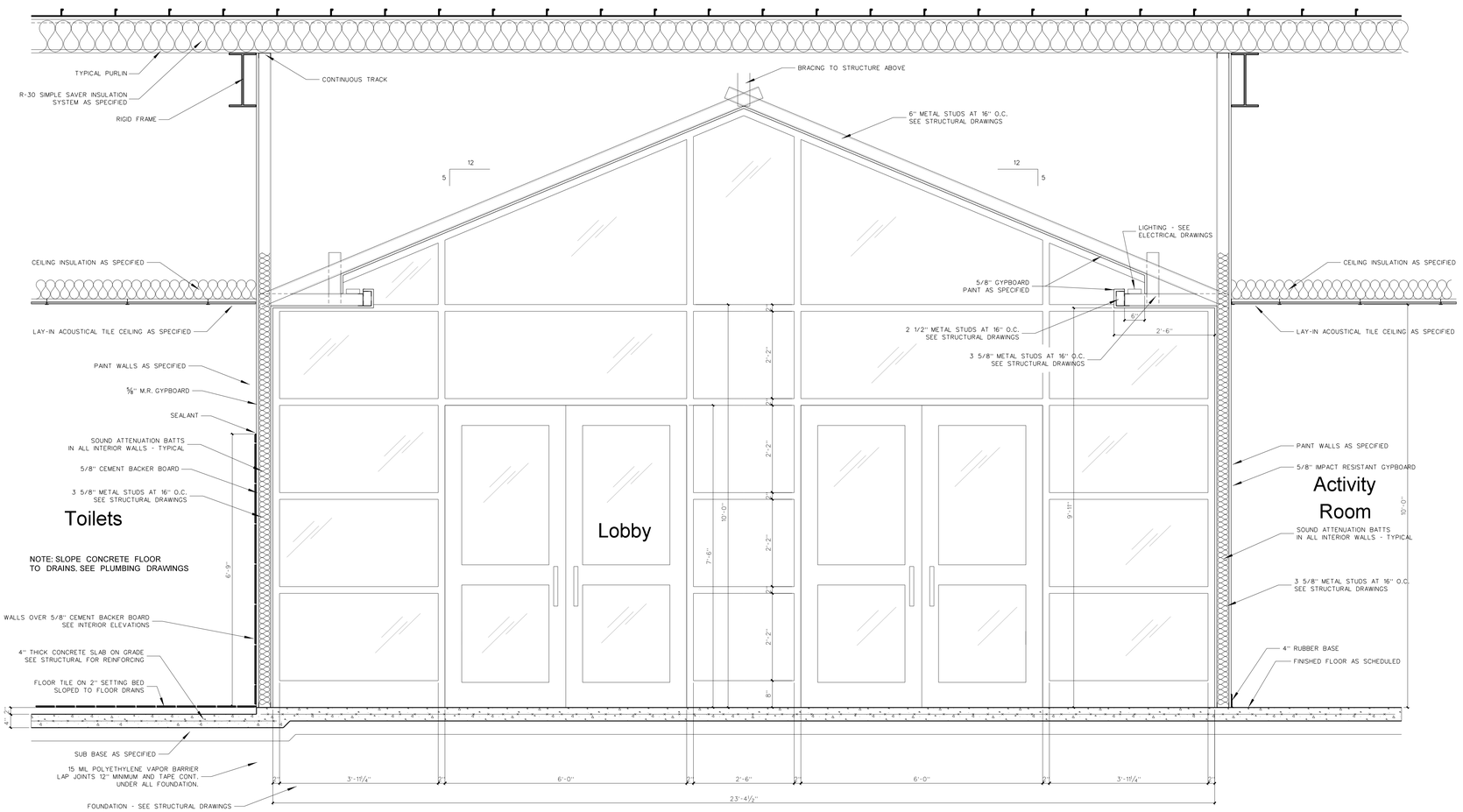


# 408.1 WALL SECTION AT FRONT LOBBY

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

| No. | Date | Revision |
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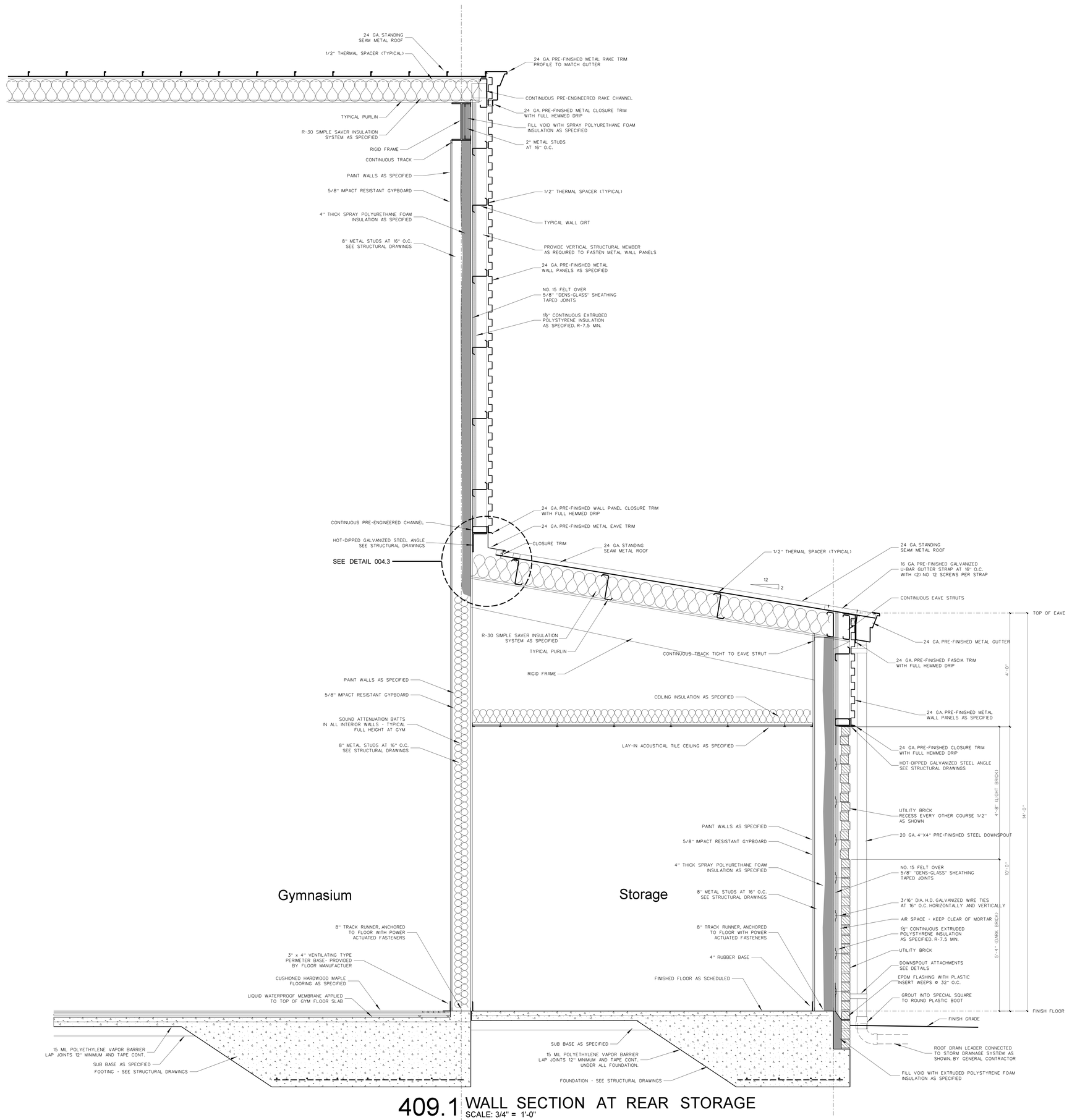


# 409.1 WALL SECTION AT REAR STORAGE

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

| No. | Date | Revision |
|---|---|---|

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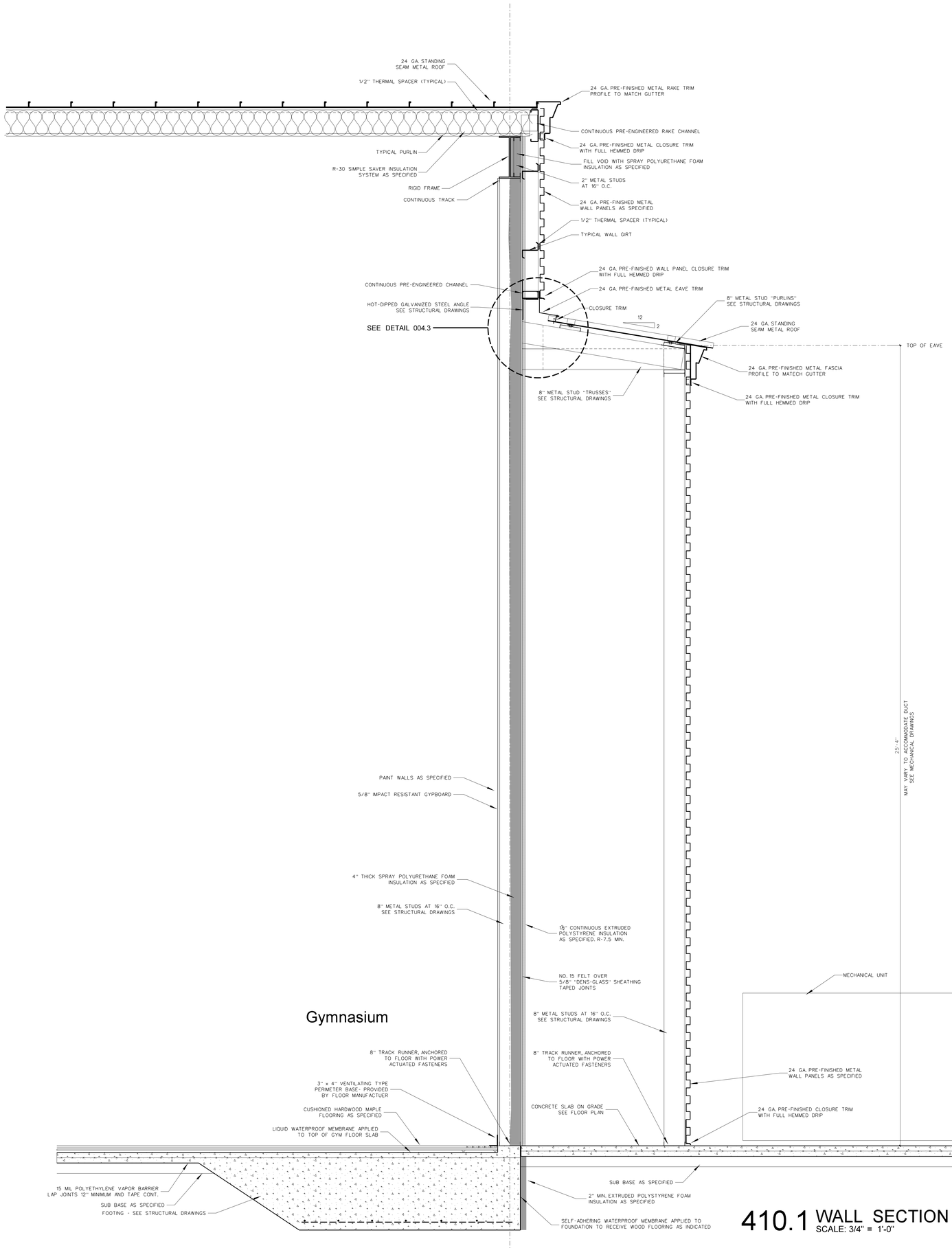


# 410.1 WALL SECTION AT DUCT CHASES
SCALE: 3/4" = 1'-0"

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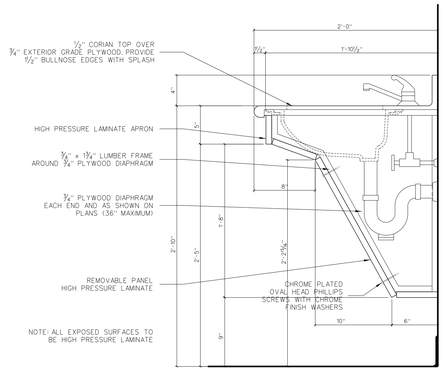
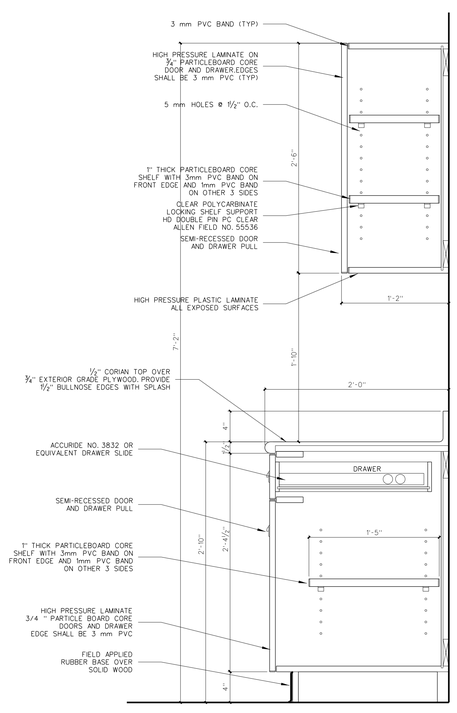
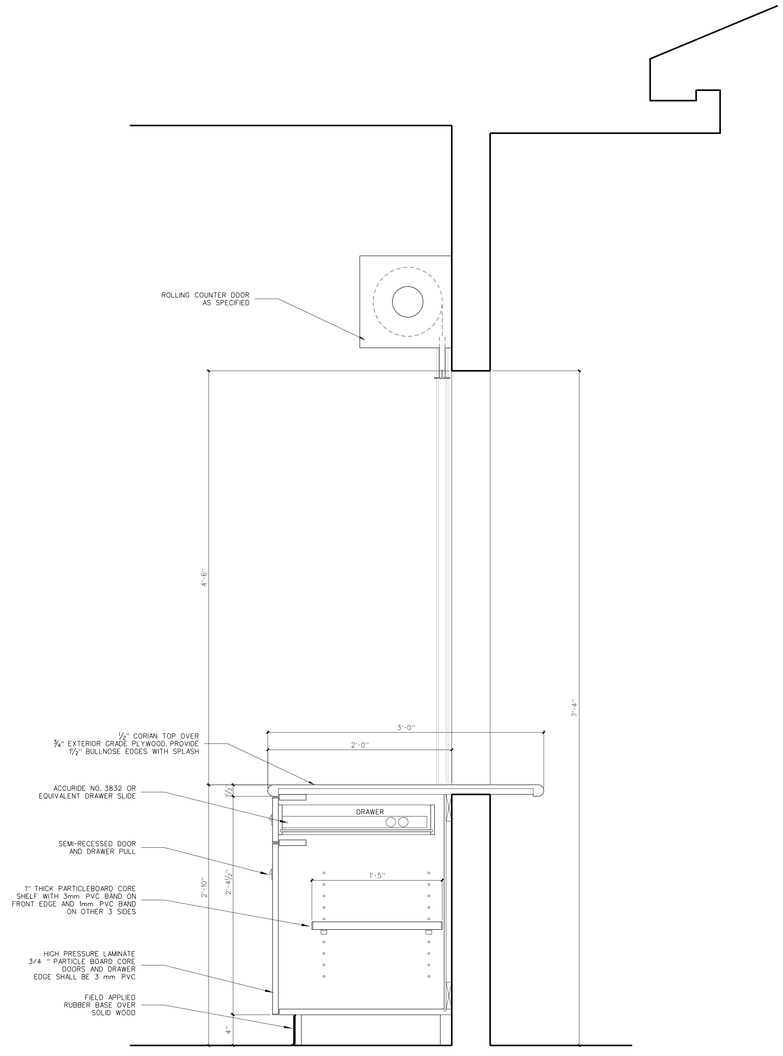



501.3 SECTION AT VANITIES
SCALE: 1 1/2" = 1'-0"




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"

| No. | Date | Revision |
|---|---|---|

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

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

COMMUNITY CENTER AND GYMNASIUM FOR
# Pitt County Office Park
Government Cir., Greenville, NC 27858

Project No.
22246

Date
31 July 2023

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A
501

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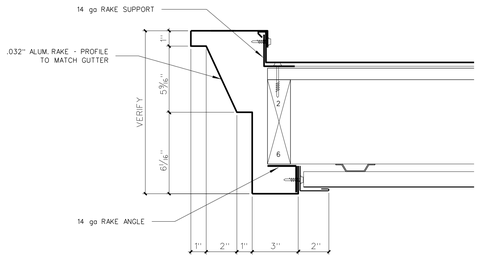
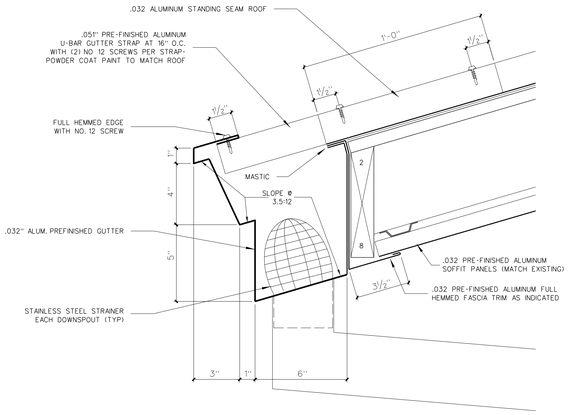
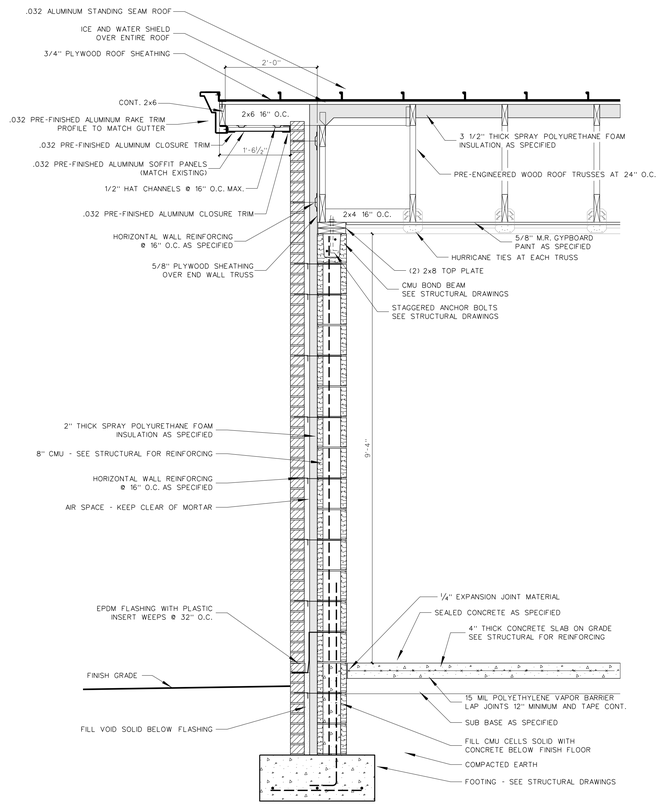


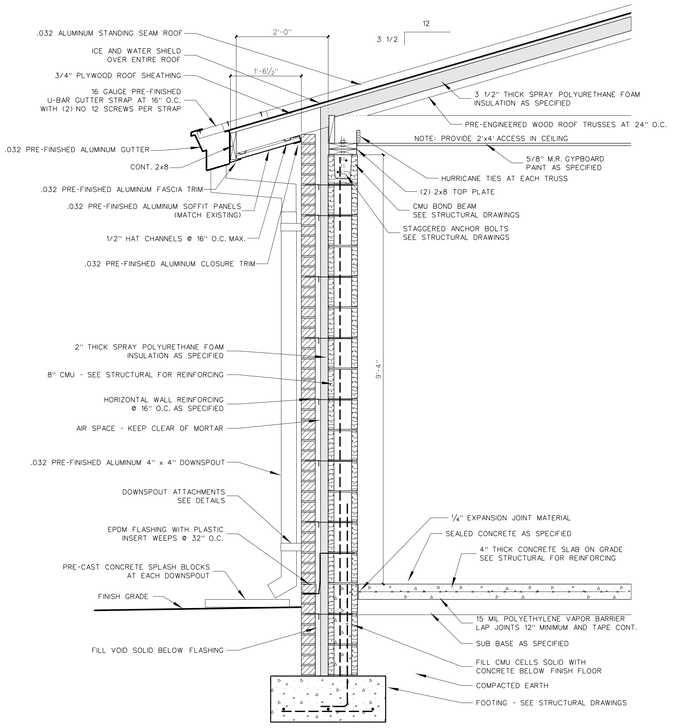

## 601.10 RAKE DETAIL
SCALE: 3" = 1'-0"



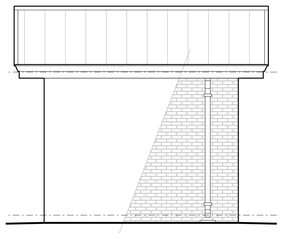

## 601.9 GUTTER DETAIL
SCALE: 3" = 1'-0"



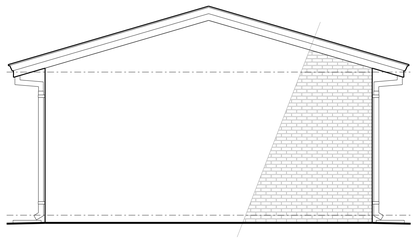

## 601.8 RAKE WALL SECTION
SCALE: 3/4" = 1'-0"



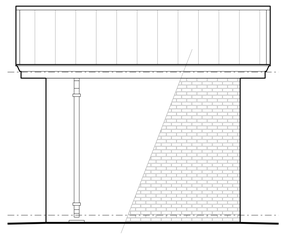

## 601.7 TYPICAL WALL SECTION
SCALE: 3/4" = 1'-0"



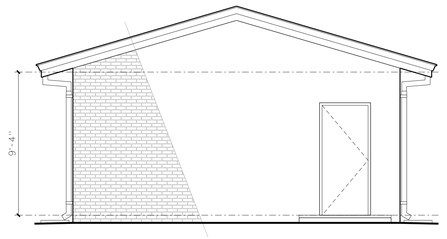
## 601.6 EXTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



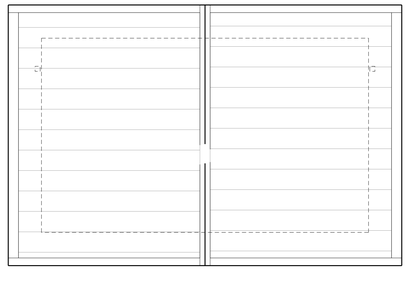
## 601.5 EXTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



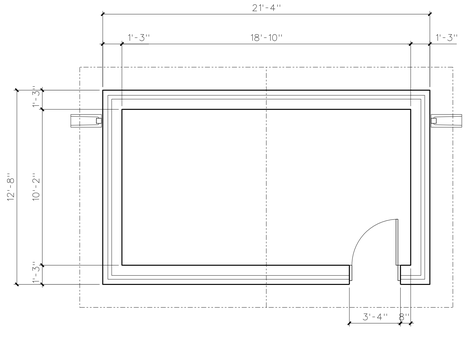
## 601.4 EXTERIOR ELEVATION
SCALE: 1/4" = 1'-0"




## 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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HITE ASSOCIATES, P.C. ARCHITECTURAL CORPORATION REGISTERED NORTH CAROLINA CORPORATE NUMBER 418 GREENVILLE

JAMES GRAY HITE REGISTERED ARCHITECT 3754 NORTH CAROLINA GREENVILLE

COMMUNITY CENTER AND GYMNASIUM FOR
**Pitt County Office Park**
Government Cir., Greenville, NC 27858

Project No. 22246
Date: 31 July 2023
Drawing no. A 601

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# FOUNDATION PLAN – BASE BID

1" = 1'-0

1.) FOOTING DESIGN BASED ON SOIL BRG. CAPACITY OF 2000 PSF. (BASED ON REPORT BY TERRACON DATED 08/09/2023 – PROJ NO. 72235070) 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.

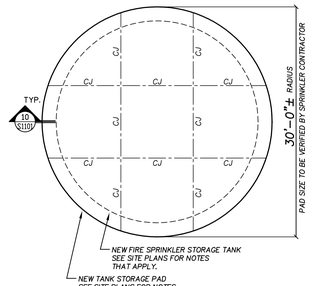
12.) FLOOR SLAB IN GYM AREA (ONLY) SHALL BE DEPRESSED 2 17/32" TO RECIEVE THE CUSHIONED PLAY FINISH FLOOR. VERIFY WITH ARCHITECTURAL DRAWINGS ALL DETAILS OF DEPRESSION AT DOORWAY THRESHOLDS. CONTRACTOR SHALL VERIFY/COORDINATE REQUIRED SLAB DEPRESSION FOR PLAY FLOOR WITH ARCH. ROOM FINISH SCHEDULE, AS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

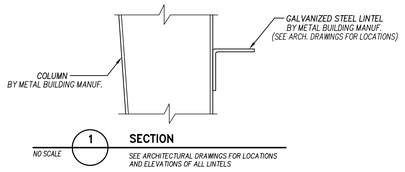
13.) SUBMIT COMPLETE METAIL BUILDING SHOP DRAWINGS AND DESIGN CALCULATIONS BEARING THE SEAL AND SIGNATURE OF A PROFESSIONAL ENGINEER DULY REGISTERED IN THE STATE OF NORTH CAROLINA. SHOP DRAWING PACKAGE SHALL INCLUDE A CONSOLIDATED LISTING OF ALL WORST-CASE BUILDING REACTION FORCES AT EACH COLUMN BASE. 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 ST101 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 |
| Ⓐ | 6'-0 x 6'-0 x 1'3" | 6 ~ #5 EA. WA. (TOP & BOTTOM) |

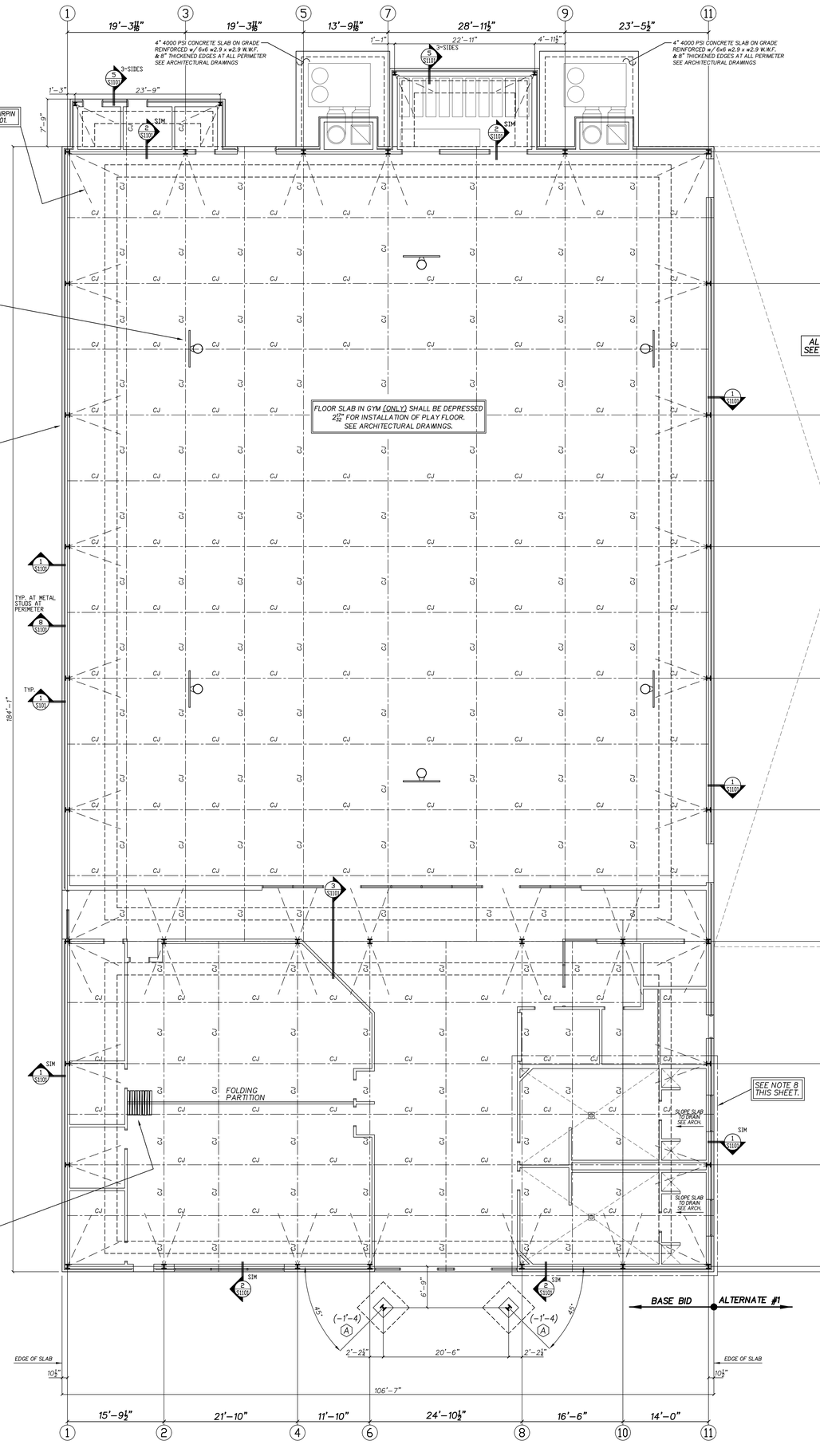
MBMA FRAME DESIGNER NOTE (BASKETBALL GOALS):
- AT SIX (6) GOAL LOCATIONS, METAL BUILDING SHALL INCLUDE ADDITIONAL FRAMING CAPABLE OF ONE (1) KIP ADDITIONAL LIVE LOAD (VERTICAL) AND TWO (2) KIPS LIVE LOAD (HORIZONTAL).
- THESE TOTAL POINT LOADS MAY BE DISTRIBUTED EQUALLY TO FRAME ATTACHMENT POINTS.
-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




| No. | Date: | Revision |
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QUEEN ENGINEERING & DESIGN
2626 ALTAMIRA BLVD, SUITE A-115
GREENVILLE, NORTH CAROLINA 27858
PHONE (252) 689-0488
WWW.QUEENED.COM

NORTH CAROLINA PROFESSIONAL SEAL 18991 ENGINEER BRUCE L. QUEEN
Bruce L. Queen
10 AUG 2023

COMMUNITY CENTER AND GYMNASIUM FOR
Pitt County Office Park
Government Cir., Greenville, NC 27856

Project No. 22246
Date: 10 AUG 2023
Drawing no. S 101

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# FOUNDATION PLAN – ALTERNATE #1

1/4" = 1'-0

1.) FOOTING DESIGN BASED ON SOIL BRG. CAPACITY OF 2000 PSF. (BASED ON REPORT BY TERRACON DATED 08/09/2023 – PROJ. NO. 72235070) 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.

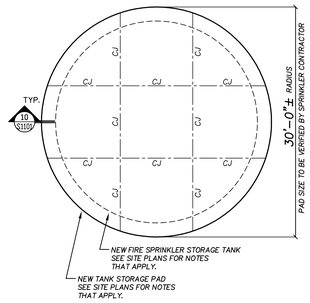
12.) FLOOR SLAB IN GYM AREA (ONLY) SHALL BE DEPRESSED 2 17/32" TO RECIEVE THE CUSHIONED PLAY FINISH FLOOR. VERIFY WITH ARCHITECTURAL DRAWINGS ALL DETAILS OF DEPRESSION AT DOORWAY THRESHOLDS. CONTRACTOR SHALL VERIFY/COORDINATE REQUIRED SLAB DEPRESSION FOR PLAY FLOOR WITH ARCH. ROOM FINISH SCHEDULE, AS 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 |
| Ⓐ | 6'–0 x 6'–0 x 13" | 6 ~ #5 EA. WA. (TOP & BOTTOM) |

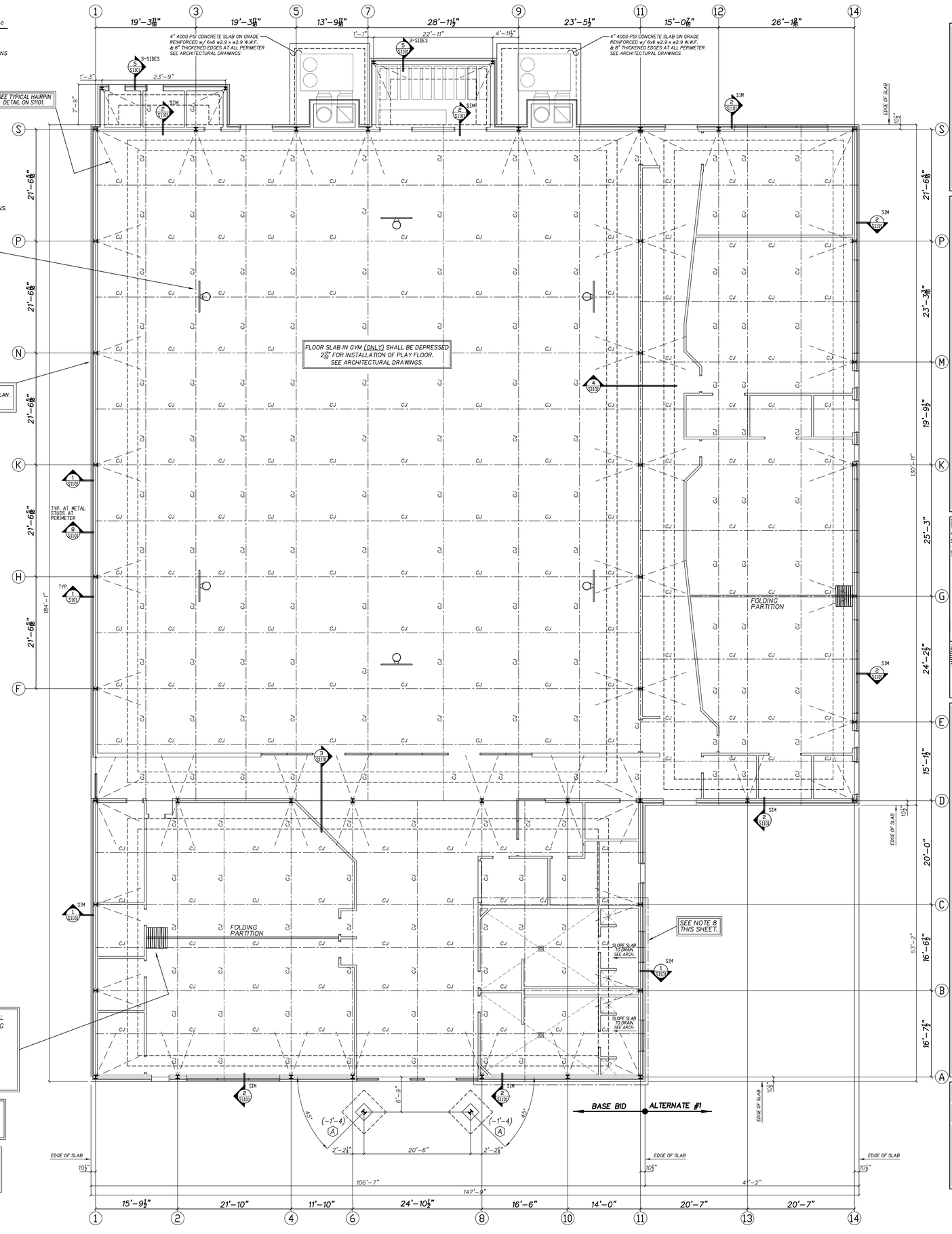
MBMA FRAME DESIGNER NOTE (BASKETBALL GOALS):
- AT SIX (6) GOAL LOCATIONS, METAL BUILDING SHALL INCLUDE ADDITIONAL FRAMING CAPABLE OF ONE (1) KIP ADDITIONAL LIVE LOAD (VERTICAL) AND TWO (2) KIPS LIVE LOAD (HORIZONTAL).
- THESE TOTAL POINT LOADS MAY BE DISTRIBUTED EQUALLY TO FRAME ATTACHMENT POINTS.
-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

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.




| No. | Date: | Revision |
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629 MITCHNER RD, SUITE #415
KINSTON, NORTH CAROLINA 28501
PHO: (910) 488-3388

NORTH CAROLINA PROFESSIONAL SEAL 18991 ENGINEER BRUCE L. QUEEN
10 AUG 2023

COMMUNITY CENTER AND GYMNASIUM FOR
Pitt County Office Park
Government Cir., Greenville, NC 27856

Project No: 22246
Date: 10 AUG 2023
Drawing no: S 102

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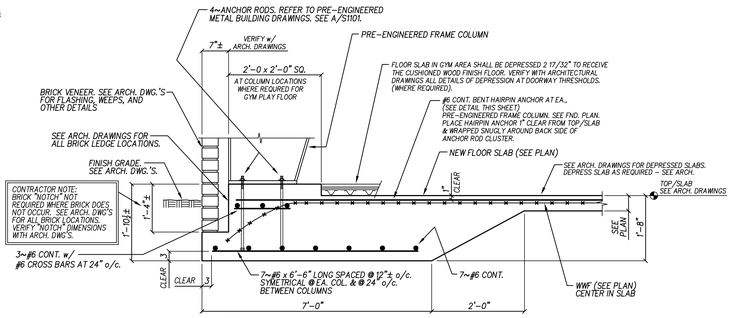
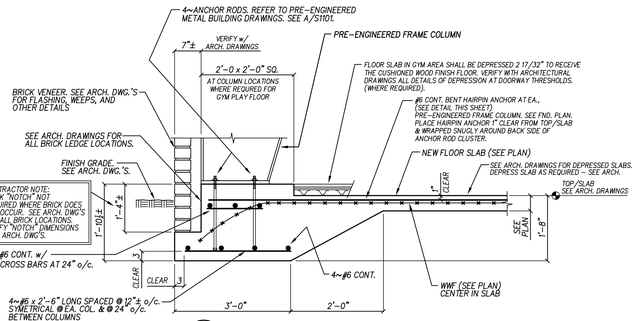



1 FOUNDATION DETAIL
NO SCALE




2 FOUNDATION DETAIL
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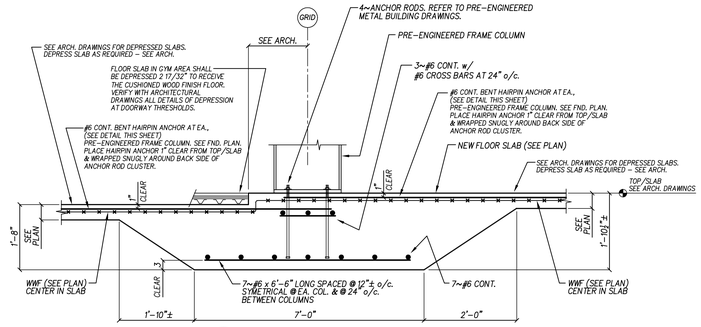
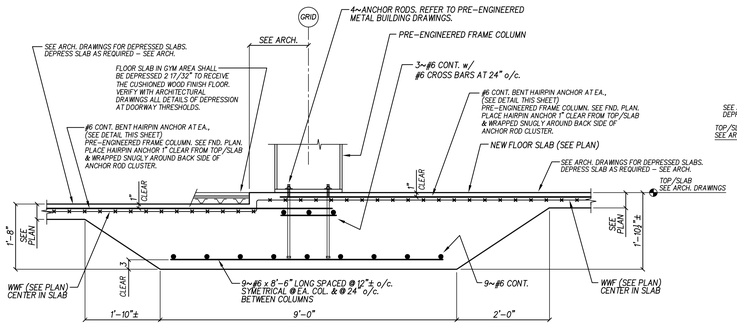
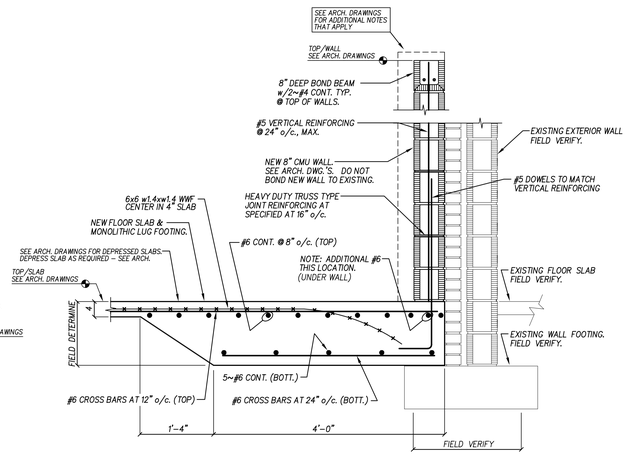



3 FOUNDATION DETAIL
NO SCALE

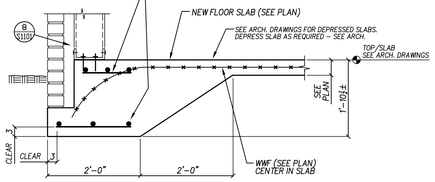



4 FOUNDATION DETAIL
NO SCALE




6 WALL SECTION AT CONNECTOR AT EXISTING WALL
NO SCALE

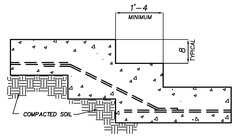
t.) DOWELS OCCUR AT 24" o/c. AT ALL CORNERS AND AT OPENINGS. GROUT ALL FILLED CELLS SOLID.




5 FOUNDATION DETAIL
NO SCALE

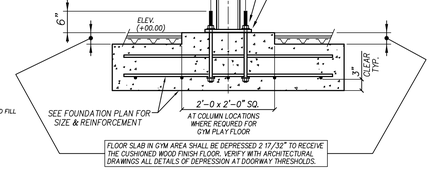
– SEE OTHER SECTIONS FOR ADDITIONAL NOTES THAT APPLY.

7 NOT USED
NO SCALE

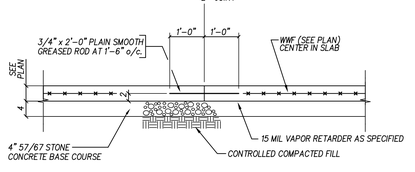



D TYPICAL STEPPED FOOTING DETAIL
NO SCALE

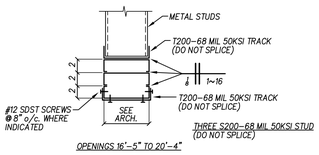
IF REQUIRED TO MEET EARTH COVER REQUIREMENTS



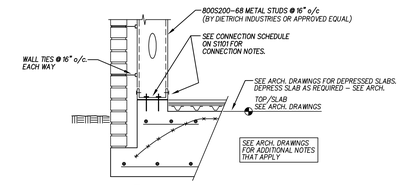

E TYPICAL COLUMN FOOTING DETAIL
NO SCALE




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

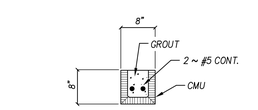



AA TYPICAL WINDOW & DOOR HEAD DETAILS
NO SCALE



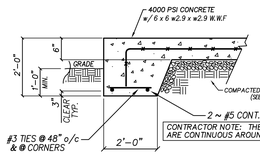

8 METAL STUD INFILL AT PERIMETER
NO SCALE

– SEE OTHER SECTIONS FOR ADDITIONAL NOTES THAT APPLY.

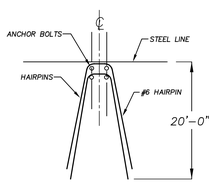



9 8" DEEP CMU LINTEL
NO SCALE

– BEAR ALL LINEL COMPONENTS 8" EA. SIDE
– SPAN = 4'-0", MAX.

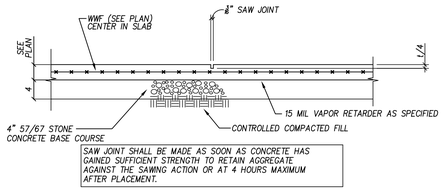



10 EXTERIOR FIRE TANK PAD DETAIL
NO SCALE

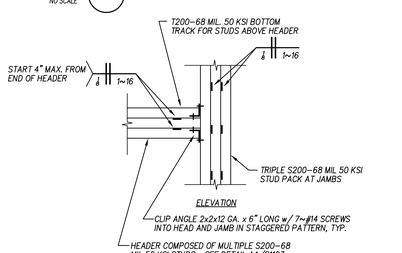



TYPICAL HAIRPINS @ PERIMETER FOOTING
NO SCALE

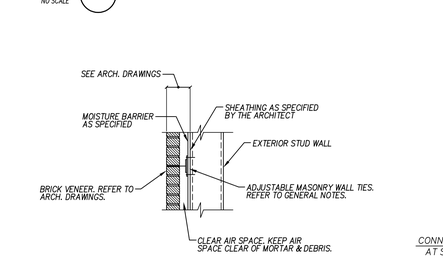
NOTE: INSTALL ONE HAIRPIN PER SET OF ANCHOR BOLTS. ELEVATION OF HAIRPINS = CENTERLINE OF SLAB.




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

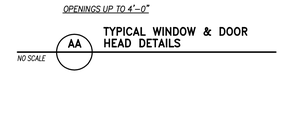



BB WINDOW JAMB TO FLOOR SLAB DETAIL
NO SCALE




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 |




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



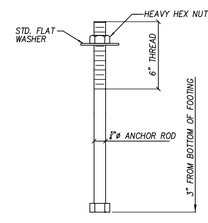

EE TYPICAL ADJUSTABLE MASONRY WALL TIE DETAIL AT BRICK VENEER w/ METAL STUD BACKUP
NO SCALE

### 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.

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. |




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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10 AUG 2023

COMMUNITY CENTER AND GYMNASIUM FOR
Pitt County Office Park
Government Cir., Greenville, NC 27856

Project No. 22246
Date: 10 AUG 2023
Drawing no. S 1101

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# GENERAL NOTES

## FOUNDATIONS

1. SOIL DESIGN BEARING VALUE – 2000 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 | – 3/4" |
| 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 #4 G90 GALVANIZED TRIANGULAR WIRE TIE. ANCHOR SHALL BE MINIMUM 12 GA. WITH BACK PLATE TO LIMIT THE HORIZONTAL MOVEMENT OF THE WIRE TO #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 4 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 | D |
| 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 2000 PSF.
(BASED ON REPORT BY TERRACON DATED 08/09/2023 – PROJ. NO. 72235070)

## 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 1704.3 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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FAX (252) 689-4488

NORTH CAROLINA PROFESSIONAL SEAL 18991 ENGINEER BRUCE L QUEEN
Bruce L Queen
10 AUG 2023

COMMUNITY CENTER AND GYMNASIUM FOR
Pitt County Office Park
Government Cir., Greenville, NC 27856

Project No. 22246
Date: 10 AUG 2023
Drawing no. S 1201

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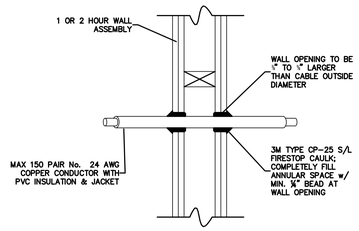
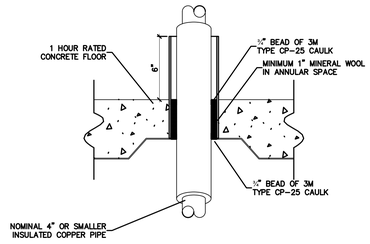


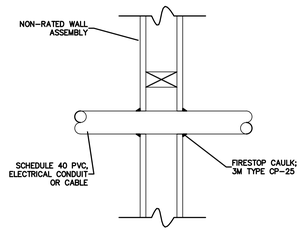

FIRESTOP PENETRATION UL # W-L-3001

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

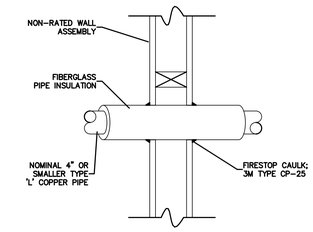



FIRESTOP PENETRATION UL # C-AJ-5001

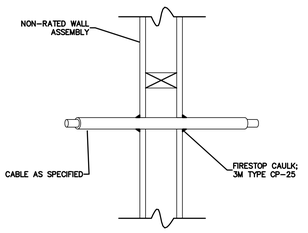
## 001.12 INSULATED PIPE THRU 1 HOUR RATED CONCRETE FLOOR
SCALE: none



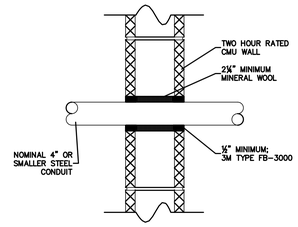

## 001.8 PIPE / CONDUIT / CABLE THRU NON-RATED WALL
SCALE: none




## 001.4 INSULATED PIPE THRU NON-RATED WALL
SCALE: none

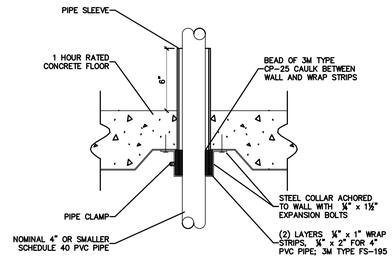



## 001.15 CABLE THRU NON-RATED WALL
SCALE: none



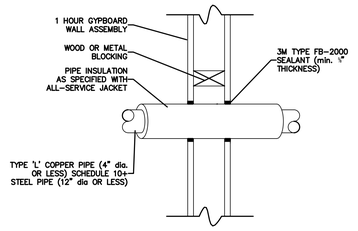

FIRESTOP PENETRATION UL # C-AJ-1014

## 001.11 CONDUIT THRU 2 HOUR RATED CMU WALL
SCALE: none



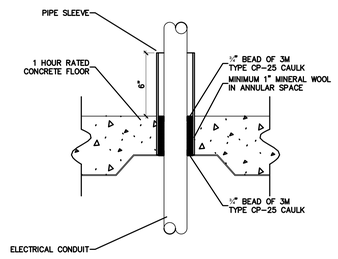

FIRESTOP PENETRATION UL # C-AJ-2001

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



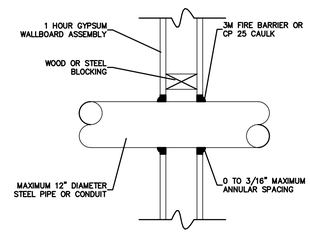

FIRESTOP PENETRATION UL # W-L-5032

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



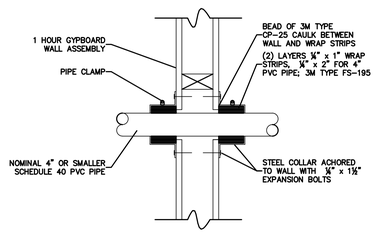

FIRESTOP PENETRATION UL # C-AJ-2001

## 001.14 CONDUIT THRU 1 HOUR RATED CONCRETE FLOOR
SCALE: none



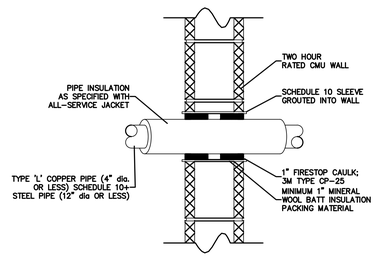

FIRESTOP PENETRATION UL # W-L-1001

## 001.10 CONDUIT THRU 1 HOUR RATED GYPBOARD WALL
SCALE: none



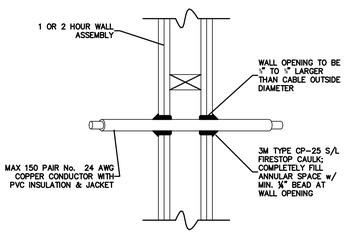

FIRESTOP PENETRATION UL # W-L-2002

## 001.6 PVC PIPE THRU 1 HOUR RATED GYPBOARD WALL
SCALE: none



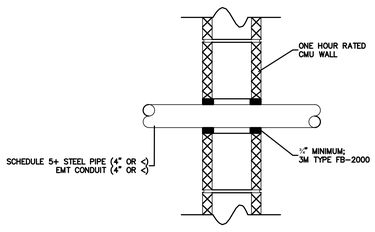

FIRESTOP PENETRATION UL # C-AJ-5001

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



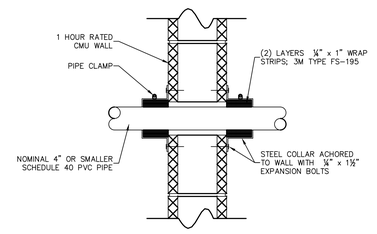

FIRESTOP PENETRATION UL # W-L-3001

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



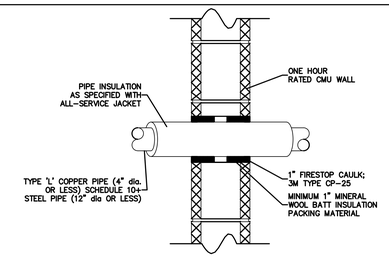

FIRESTOP PENETRATION UL # C-AJ-1013

## 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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ES Project No: ES23051

7/21/23

| No. | Date | Revision |
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COMMUNITY CENTER AND GYMNASIUM FOR
# Pitt County Office Park
403 Government Circle, Greenville, NC 27834

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

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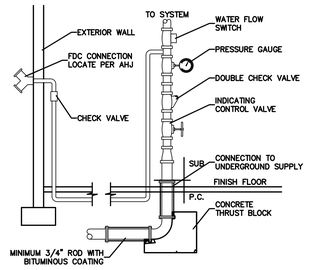
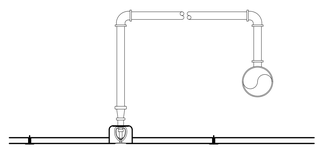
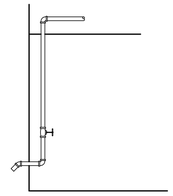



101.3 SPRINKLER SYSTEM RISER
SCALE: none



101.4 SPRINKLER HEAD DETAIL
SCALE: none



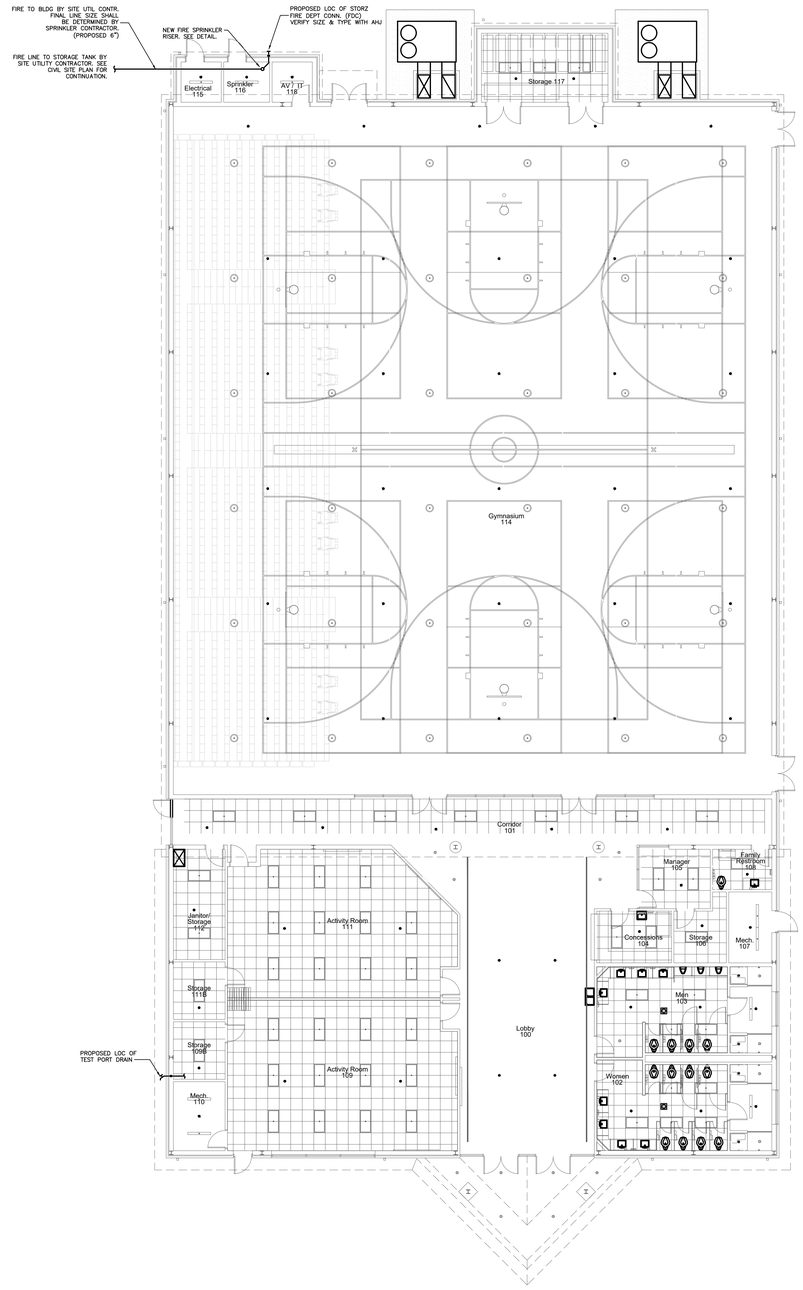
101.5 SYSTEM TEST CONNECTION
SCALE: none

| 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: | 82 PSI |
| VOLUME: | 1725 GPM |
| RESIDUAL PRESS: | 77 PSI |
| LOCATION: | LOCAL HYDRANT #3045 |

REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

NOTE:
FIRE FLOWS MUST MEET NC FIRE CODE APPENDIX B FOR TYPE IIB CONSTRUCTION AND THE TOTAL SF FOR BUILDING UNDER ROOF. F.C. CONTRACTOR IS RESPONSIBLE FOR COORDINATING FIRE FLOW TESTING WITH LOCAL WATER PURVEYOR. COMPLETE SUPPLY FROM WATER UTILITY WITH SHOP DRAWING SUBMITTAL TO ENGINEER & AHJ.




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

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COMMUNITY CENTER AND GYMNASIUM FOR
**Pitt County Office Park**
403 Government Circle, Greenville, NC 27834

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Project No: ES23051
7/21/23
D. Wilson Pou
REGISTERED PROFESSIONAL ENGINEER
D. WILSON POU

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

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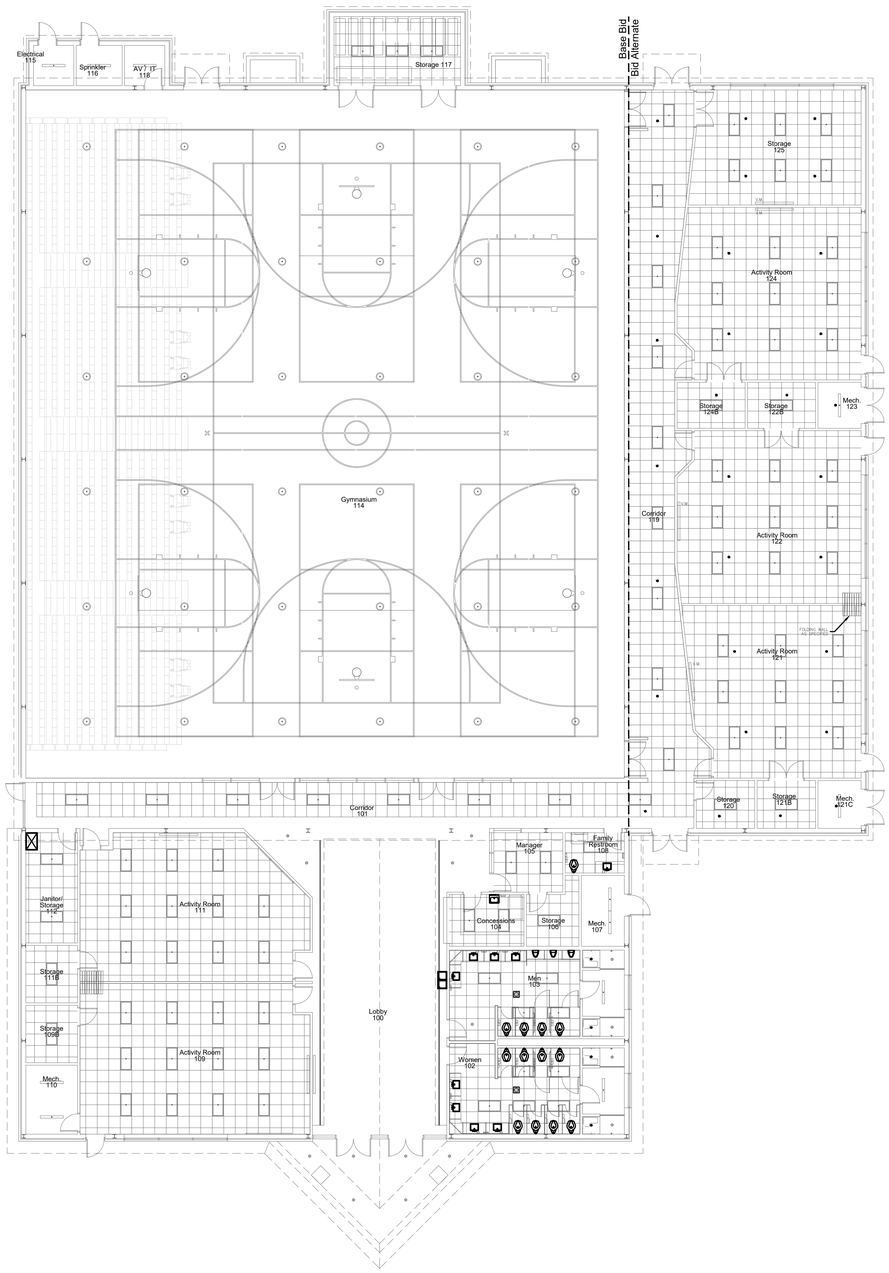


FIRE SUPPRESION PLAN (ALTERNATE BID)
SCALE: 3/32" = 1'-0"

## 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: | 820 PSI |
| VOLUME: | 1725 GPM |
| RESIDUAL PRESS: | 77 PSI |
| LOCATION: | LOCAL HYDRANT #3045 |

REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

NOTE:
FIRE FLOWS MUST MEET NC FIRE CODE APPENDIX B FOR TYPE IIB CONSTRUCTION AND REQUIRED FOR BUILDING OVER 30,000 SQ FT. CONTRACTOR SHALL OBTAIN FLOW TEST FOR BUILDING AND FIRE FLOW PRIOR TO BID & PROVIDING COMMITMENT LETTER FROM WATER UTILITY WITH SHOP DRAWING SUBMITTAL TO ENGINEER & AHJ.

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HITE ASSOCIATES, P.A. ARCHITECTURAL CORPORATION REGISTERED GREENVILLE NORTH CAROLINA SEAL 418

COMMUNITY CENTER AND GYMNASIUM FOR
# Pitt County Office Park
403 Government Circle, Greenville, NC 27834

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

ES Project No: ES23051
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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 039161 DAVID WILKINSON
7/21/23

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SITE KEY NOTES:

A 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.

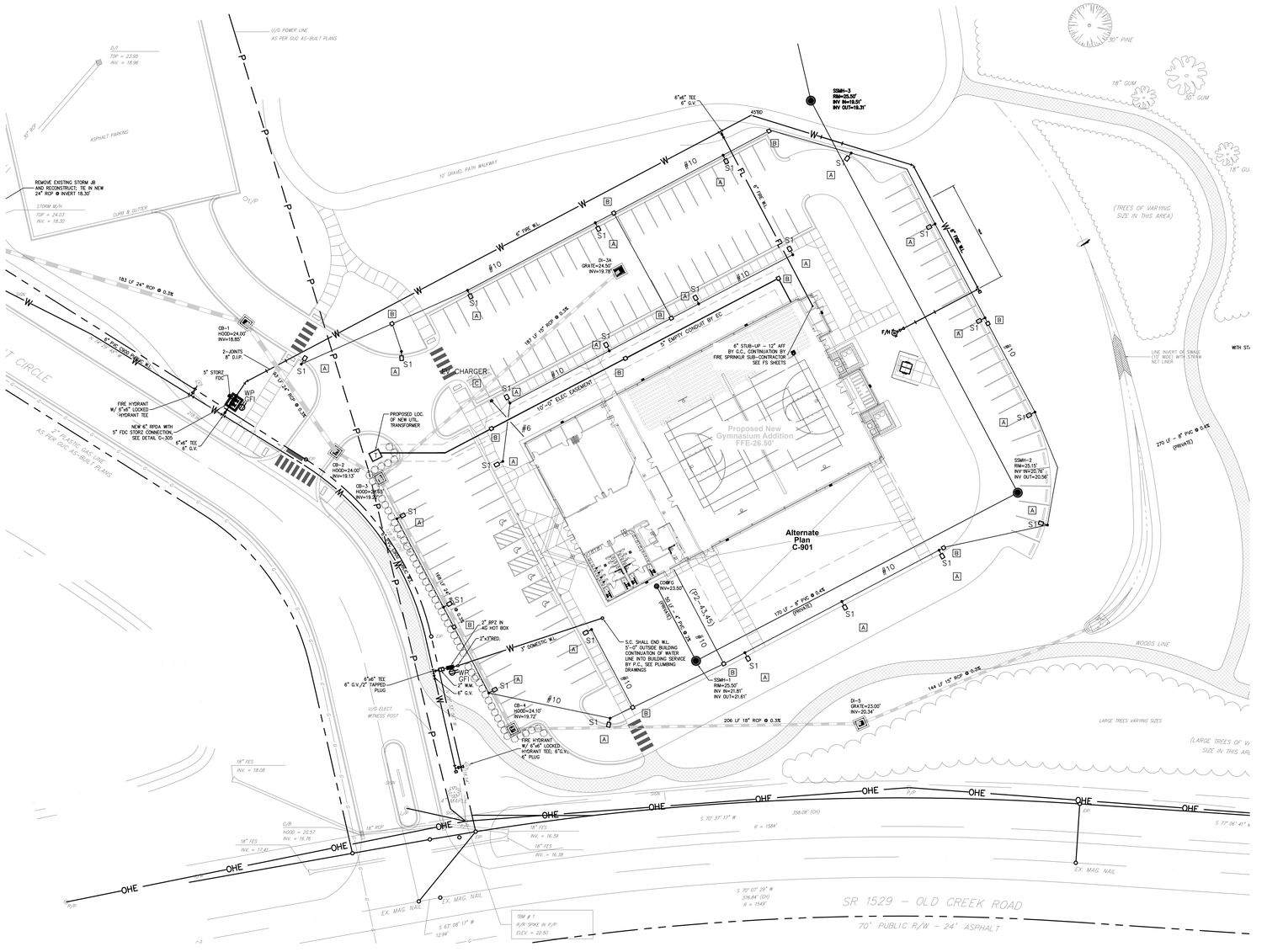
B PROVIDE AND INSTALL A 24" x 24" JUNCTION BOX (QUASITE OR EQUAL) IN THIS APPROXIMATE LOCATION AND AS NEEDED TO OVERCOME FRICTION.

C 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: (EDH14L-48L-NWC3-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




PME SITE PLAN
SCALE: 1" = 30'-0"

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HITE ASSOCIATES, P.C. CORPORATE SEAL C-0418 GREENVILLE NORTH CAROLINA

COMMUNITY CENTER AND GYMNASIUM FOR
# Pitt County Office Park
403 Government Circle, Greenville, NC 27834

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

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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<br>1 LAVATORY | 4 WC<br>3 LAVATORY<br>3 UR |
| DIVISION OF FACILITIES PER TABLE 403.4:<br>MALE: **50%**<br>FEMALE: **50%** | FEMALES | 1 WC<br>1 LAVATORY | 4 LAVATORY<br>8 WC |
| 10 x .5 = **5 FEMALE**<br>10 - 5 = **5 MALE** | 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

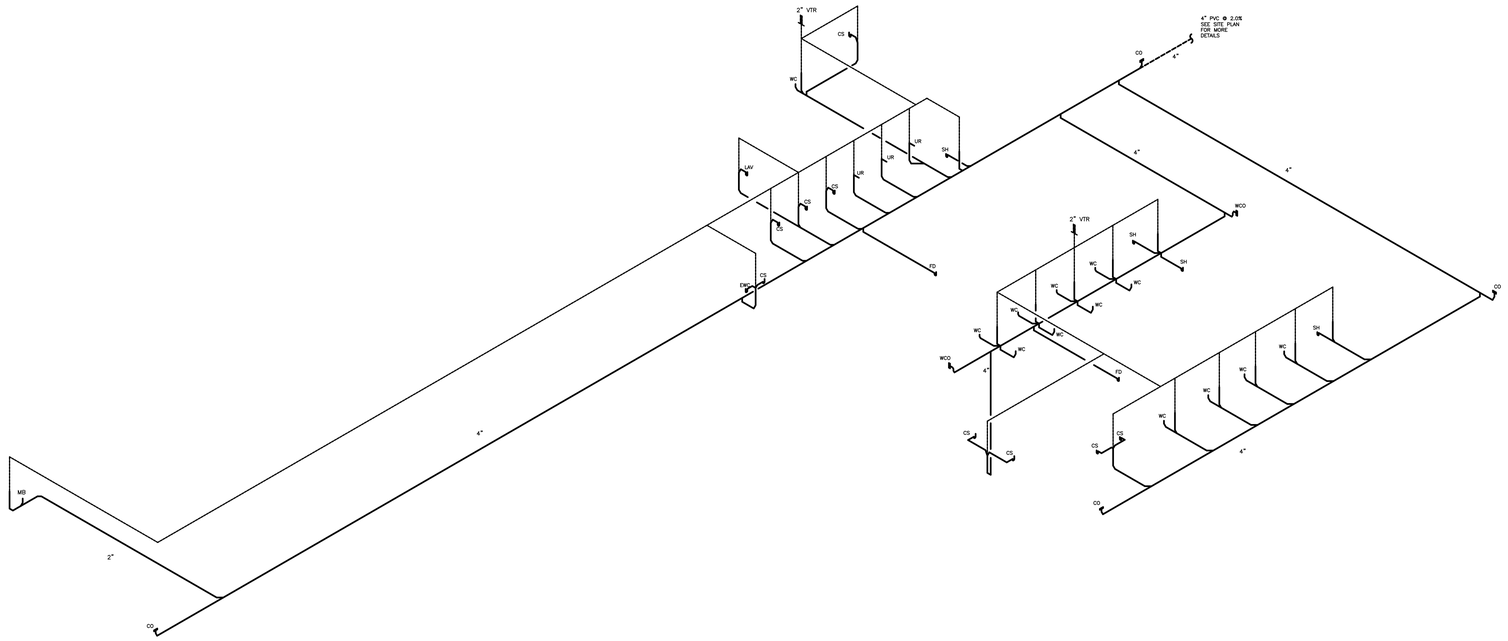
## FIXTURE UNIT REQUIREMENTS

| | |
|---|---|
| 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 TWO-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.




DWV RISER DIAGRAM
SCALE: NONE

ES Project No: ES23051
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7/21/23

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COMMUNITY CENTER AND GYMNASIUM FOR
**Pitt County Office Park**
403 Government Circle, Greenville, NC 27834

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

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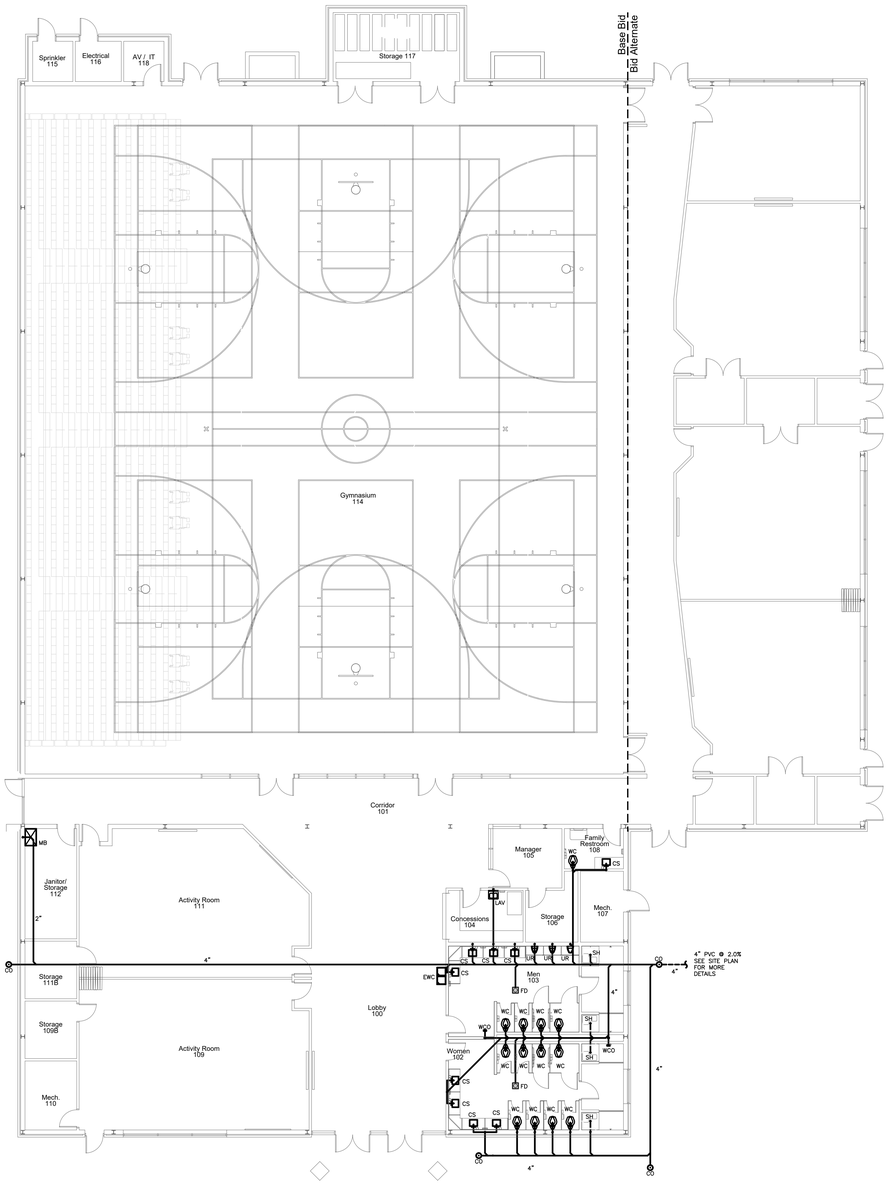


# SANITARY SEWER PLAN
SCALE: 3/32" = 1'-0"

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COMMUNITY CENTER AND GYMNASIUM FOR
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7/21/23

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|---|---|
| Project No. | 22207 |
| Date: | July 2023 |
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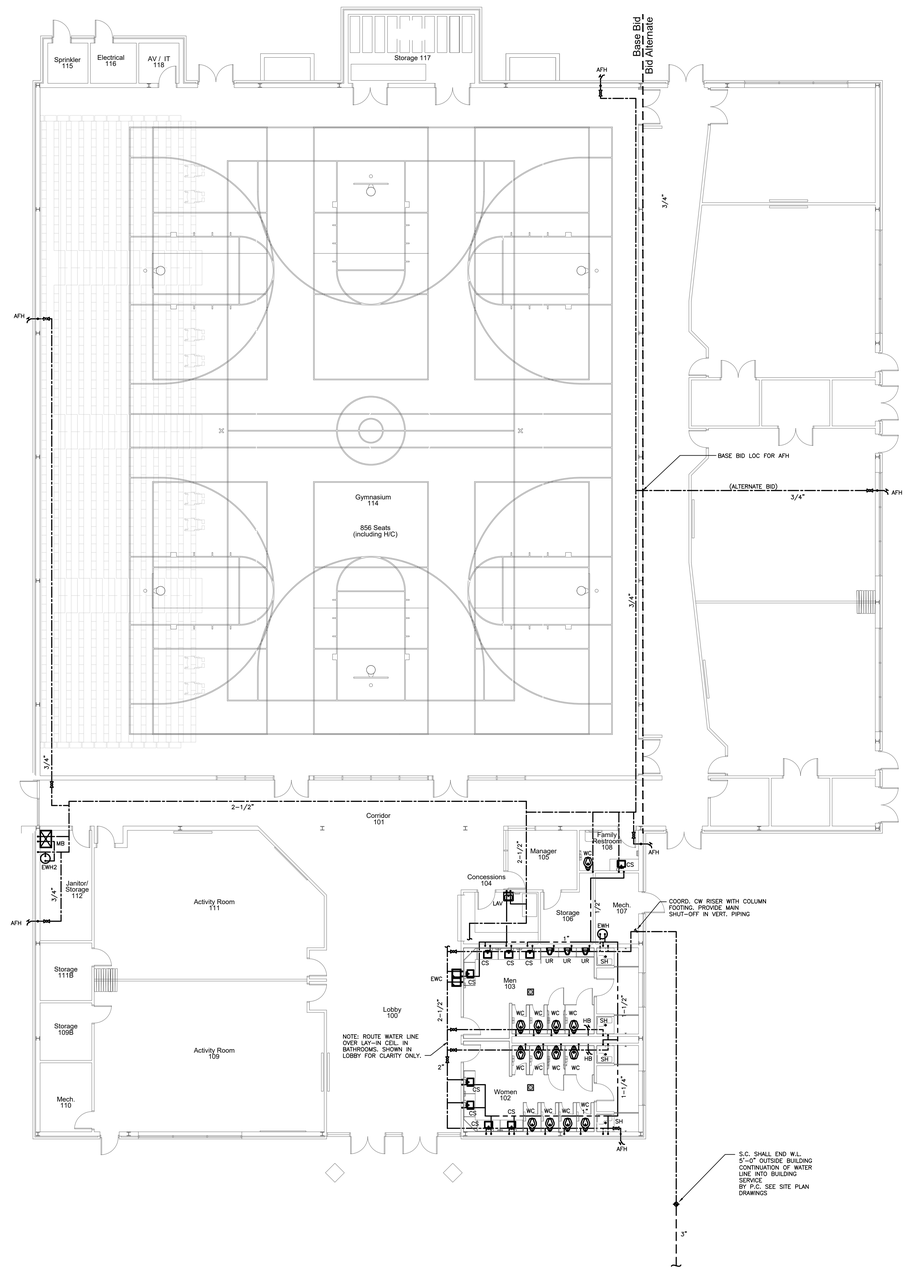


# DOMESTIC WATER PLAN
SCALE: 3/32" = 1'-0"

| No. | Date | Revision |
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| | | |

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COMMUNITY CENTER AND GYMNASIUM FOR
**Pitt County Office Park**
403 Government Circle, Greenville, NC 27834

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

| | |
|---|---|
| Project No. | 22207 |
| Date: | July 2023 |
| Drawing no. | P 102 |

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SEAL 042418 ENGINEER D. WILSON POU
7/21/23

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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.

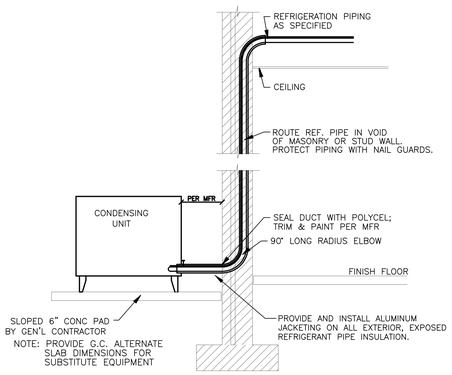
25. UNIT CONTROLLER OR PROGRAMMABLE THERMOSTAT SHALL HAVE 7 DAY PROGRAMING, TIMED OVER-RIDE AND THE ABILITY TO RUN FANS IN OCCUP. MODE & CYCLE FANS IN UN-OCCUP. MODE.

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.

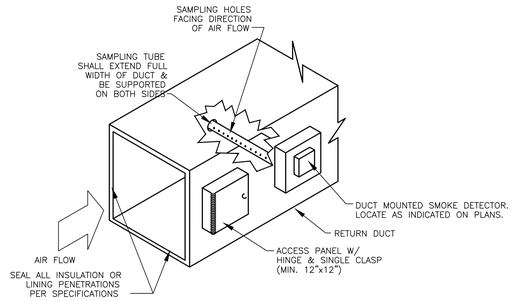
28. MECHANICAL CONTRACTOR SHALL INSTALL DUCT MOUNTED SMOKE DETECTORS WHERE INDICATED ON PLANS. COORDINATE WITH E.C. IF DUCT DETECTOR IS PROVIDED AS PART OF BUILDING FIRE ALARM SYSTEM. IF NOT, PROVIDE DETECTOR & ASSOCIATED HORN/STROBE ALARM (HONEYWELL RTS2-AOS MULTI-SIGNALING) AS REQUIRED BY N.C. MECHANICAL 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)



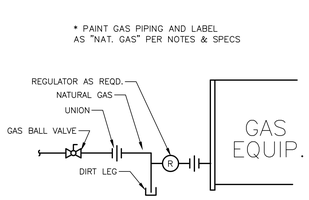

## CONDENSING UNIT INSTALLATION DETAIL

SCALE: NTS



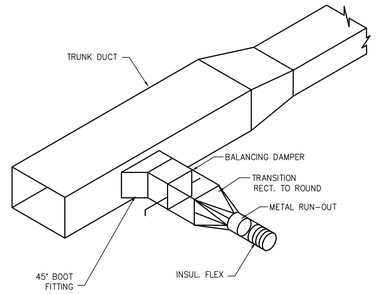

## DUCT MOUNTED SMOKE DETECTOR DETAIL

SCALE: N.T.S.



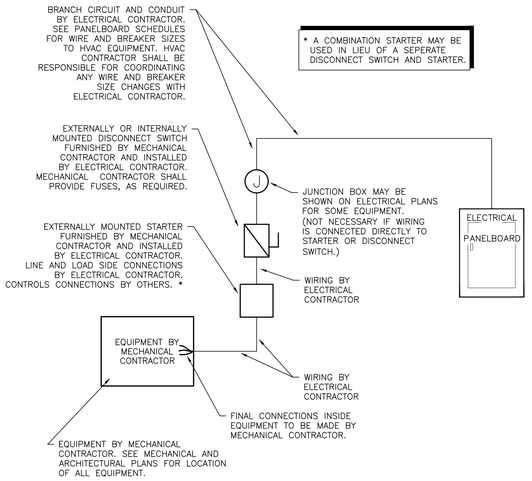

## GAS PIPING SCHEMATIC

SCALE: NTS



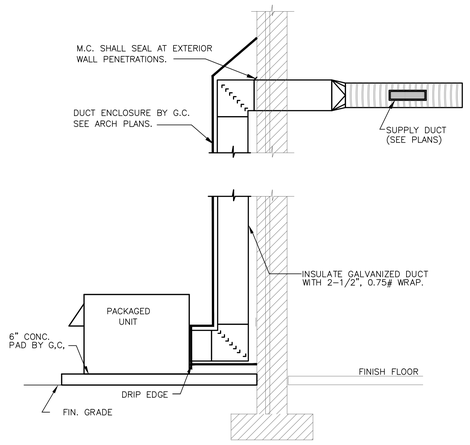

## LOW PRESSURE BRANCH CONNECTION

SCALE: NTS



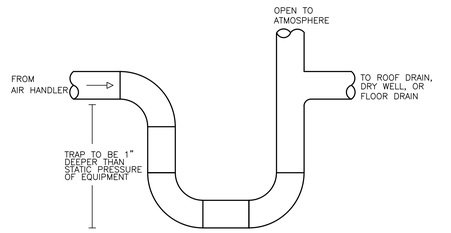

## MECHANICAL EQUIPMENT ELECTRICAL CONNECTION DETAIL

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 |
| | | | | | | | | | | | | | | |

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 |

ENGINEERING SOURCE of NC, P.A.
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7/21/23

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COMMUNITY CENTER AND GYMNASIUM FOR
**Pitt County Office Park**
403 Government Circle, Greenville, NC 27834

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

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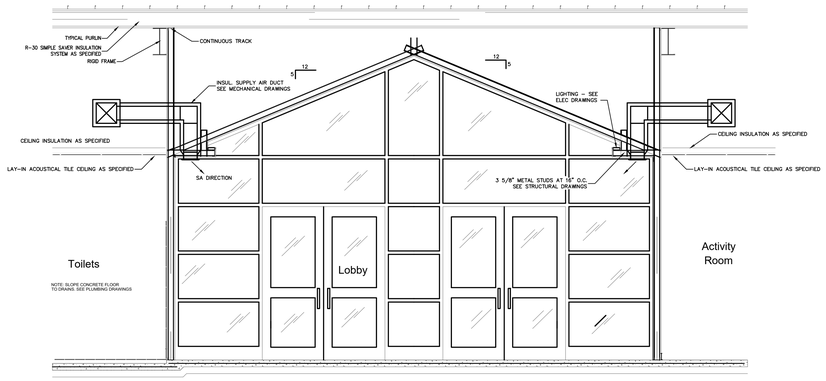
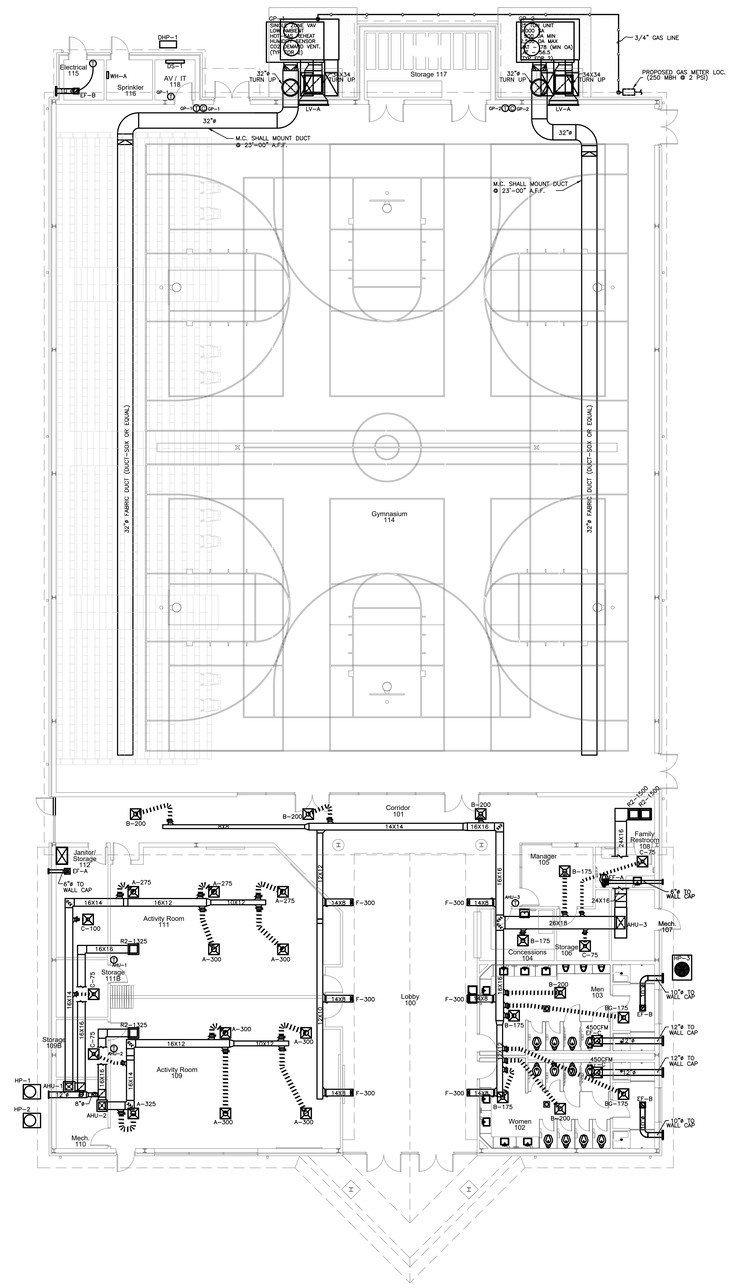



# SECTION AT LOBBY
SCALE: NO SCALE




# 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 HF447ST2RP | 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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COMMUNITY CENTER AND GYMNASIUM FOR
**Pitt County Office Park**
403 Government Circle, Greenville, NC 27834

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C2 Project No: ES23051

NORTH CAROLINA SEAL 032161 ENGINEER D. WILSON POU
7/21/23

| | |
|---|---|
| Project No. | 22207 |
| Date: | July 2023 |
| Drawing no. | M 101 |

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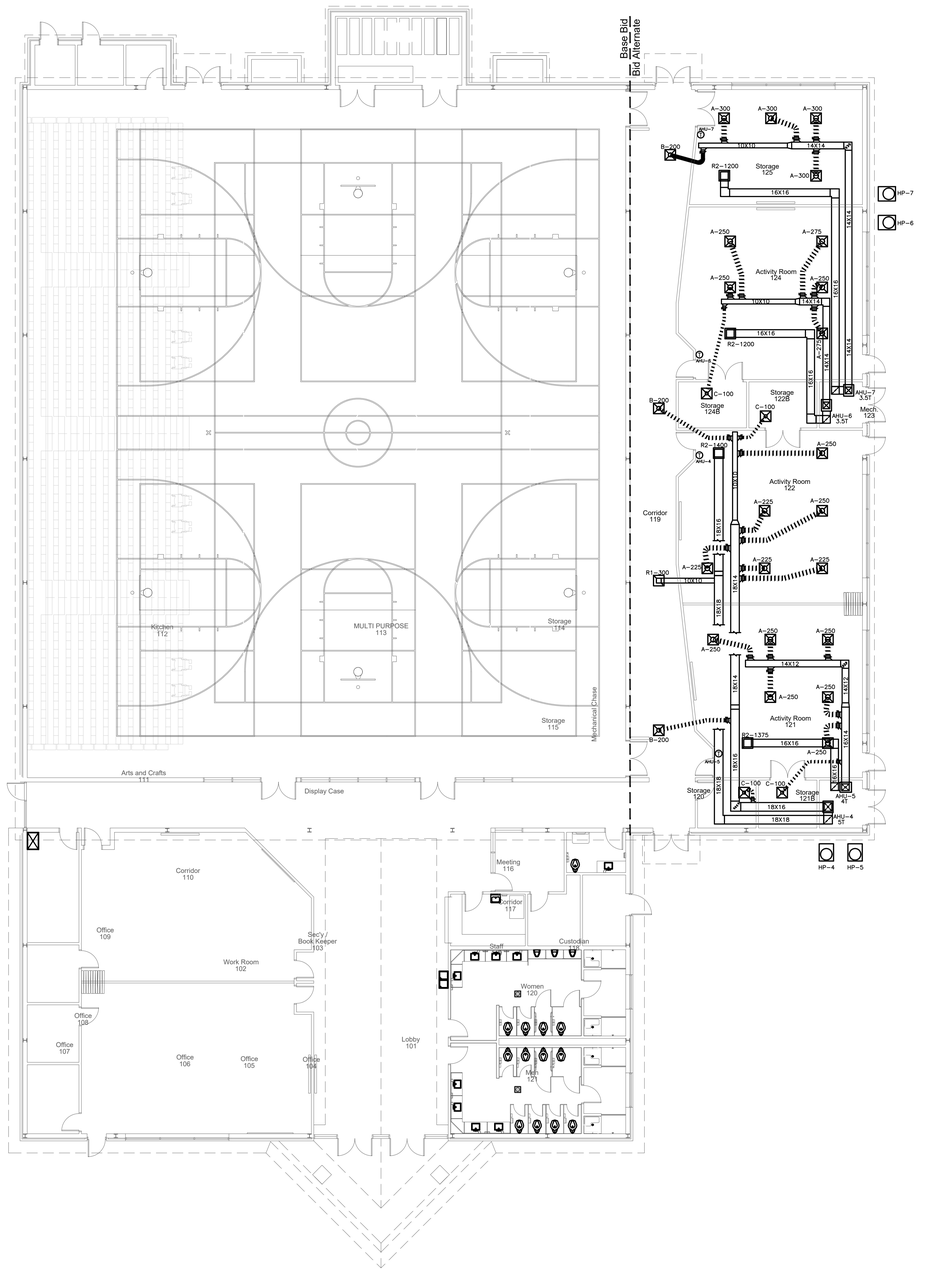


## MECHANICAL PLAN (ALTERNATE BID)
SCALE: 3/32" = 1'-0"

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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COMMUNITY CENTER AND GYMNASIUM FOR
# Pitt County Office Park
403 Government Circle, Greenville, NC 27834

ENGINEERING SOURCE of NC, P.A.
102-A2 Regency Blvd. Greenville, NC 27834
E-Mail Address: greenville@engrsource.com
Voice (252) 439-0328 • Fax (252) 439-0482 • Firm #C-1873
ES Project No: ES23051

| | |
|---|---|
| Project No. | 22207 |
| Date: | July 2023 |
| Drawing no. | M 101A |

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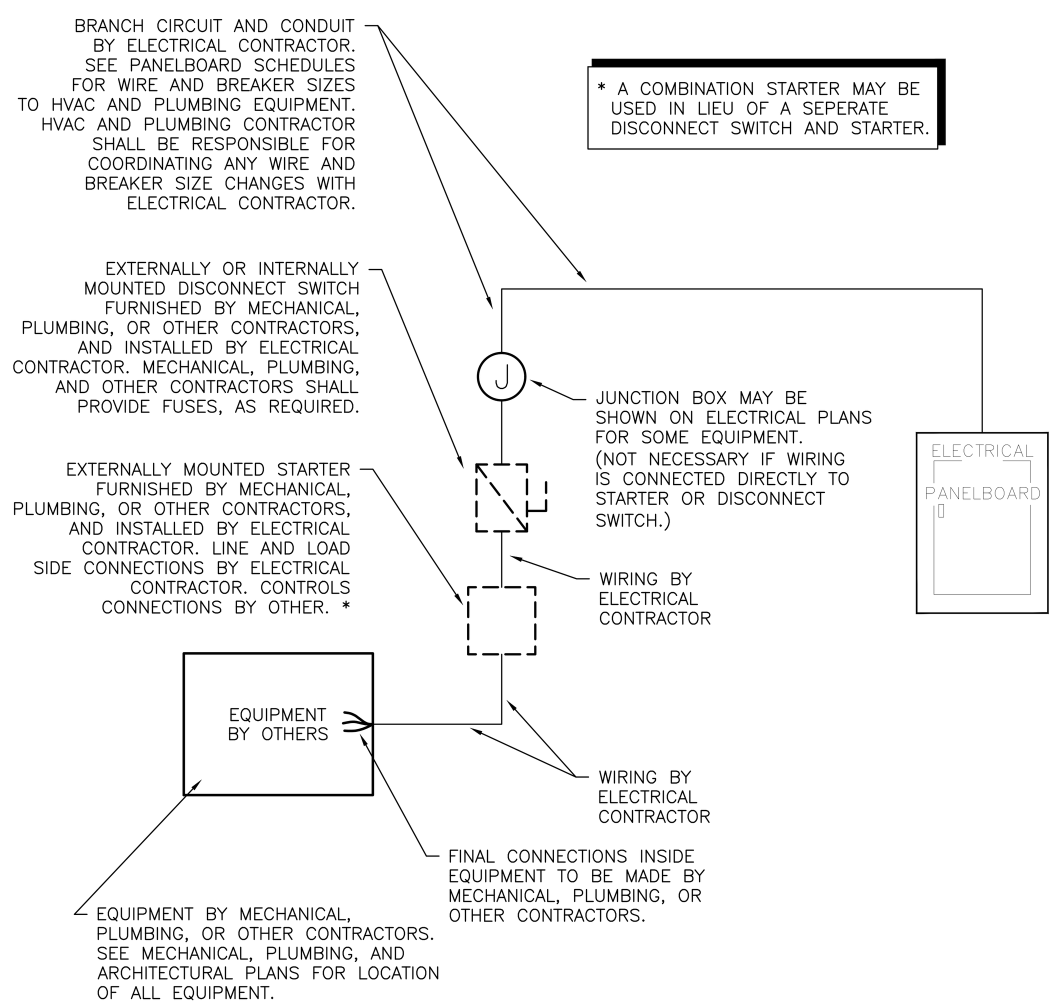



## ELECTRICAL CONNECTION DETAIL

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**

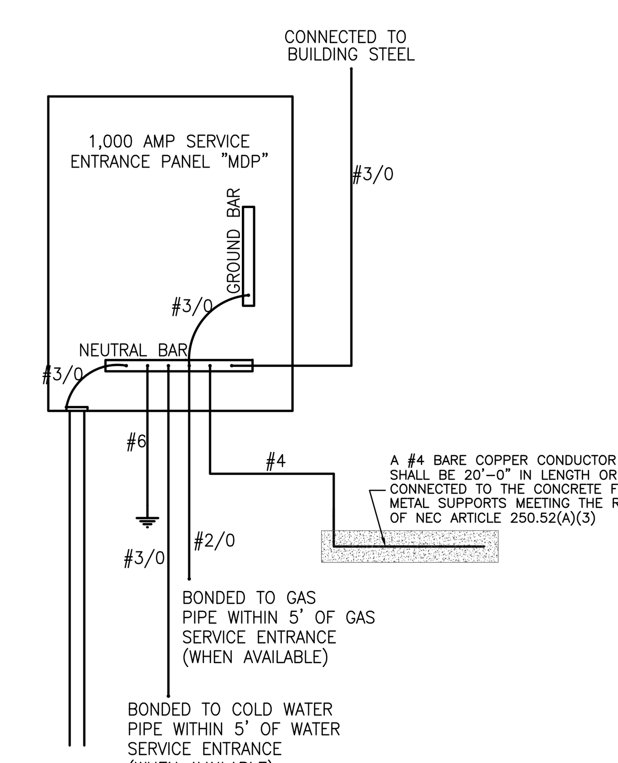
ADDITIONAL PRESCRIPTIVE COMPLIANCE

- ☐ 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



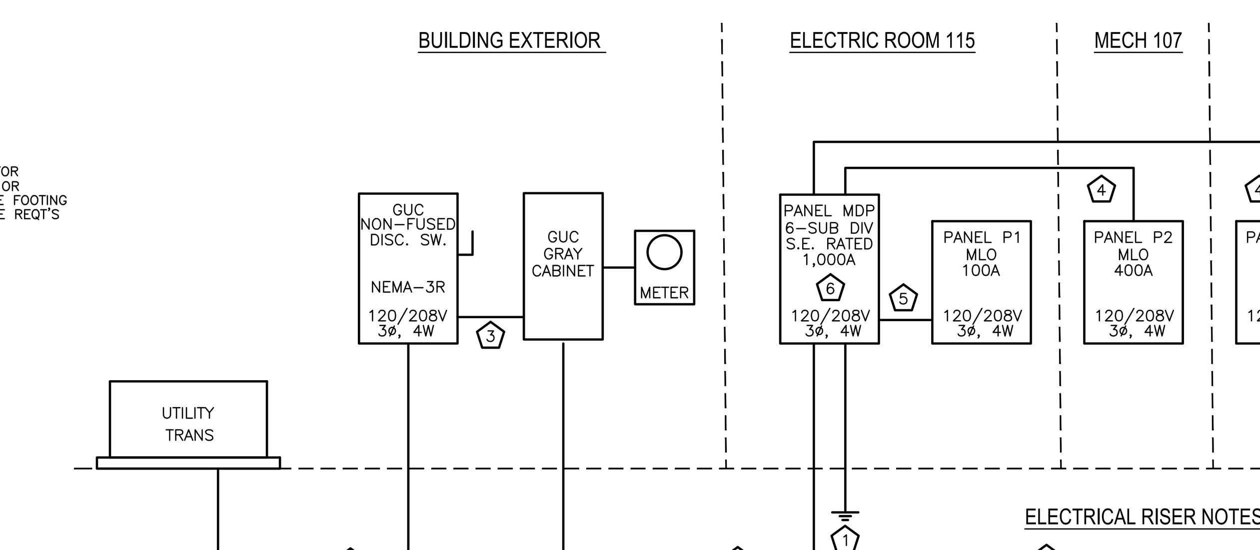

NOTE:
1. THIS DRAWING ONLY SHOWS GROUNDING ELECTRODE CONDUCTORS AND BONDING JUMPERS. ALL CONDUITS SHALL ALSO HAVE EQUIPMENT GROUNDING CONDUCTORS SIZED PER NEC AND DRAWINGS.
2. BONDING OF GAS PIPE IS TO EQUALIZE POTENTIAL OF GAS PIPE ONLY. AS REQ'D BY N.E.C. & VOLUME VI OF NCBC.

## 1,000A SERVICE ENTR GROUNDING DETAIL

SCALE: N.T.S.

## 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#: SRP24-40VWHE-G-ESD-U LITHONIA#: EPANL-2X4-3000LM-80CRI-40K-MIN10-SLD-MVOLT OR WILLIAMS#: LP-24-L50-8-40-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#: EPANL-2X4-4800LM-80CRI-40K-MIN10-SLD-MVOLT OR WILLIAMS#: LP-24-L50-8-40-SD50-UNV | LED | MULTI | 45W | – |
| B<br>BE | 6" RECESSED LED FIXTURE, MEDIUM CUTOFF ANGLE. 4500 LUMENS, DIMMING DRIVER. PROVIDE – PRESCOLITE#: LTR-6RD-30L-40K-WD-S-DM1-UNV LITHONIA#: LDN6-40-40-L06-AR-LSS-MVOLT-GZ10 OR WILLIAMS#: 6DR-TL-L40-8-40-DIM1-UNV-O-W-CS<br>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<br>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<br>SAME AS "G" FIXTURE ABOVE. "E" INDICATES THAT 1/3 OF THE LEDS IN THE 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 #: 75S-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 #: EVO6SH 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 #: MLLWP60LED50PC27-150 | LED | UNV | 80W | – |
| (exit symbol) OR (exit symbol) | 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 #: CER50 OR WILLIAMS #: EXIT-R-EM-WHT-SDT OR LITHONIA #: LQM-S-W-3-R-120/277-ELN-SD | RED LED | 120/ 6V | 3.5W | N/A |
| (symbol) | 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 #: CU2SD OR WILLIAMS #: EMER/LED-WHT-HL-SDT OR LITHONIA #: EU2-LED-M12 | 2-10W | 120/ 6V | 20W | N/A |
| (symbol) | 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 #: CCRSD 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 |
| (symbol) | 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 RISER DIAGRAM

SCALE: N.T.S.

ELECTRICAL RISER NOTES:

1. SERVICE ENTRANCE GROUND PER DETAIL AND NEC ARTICLE 250 GROUNDING REQUIREMENTS.
2. UTILITY SERVICE BY GUC. APPROX. COORD. WITH GUC FOR COST & REQTS. 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.

## 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. SG62 |
| 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 QUANITITES & 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 |
| W | 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 |
| K, D | 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. |
| $D | 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 ?" 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. MBG2 FOR WELDING (EF-6D) & SQUARE D No. MCG3 FOR CARPENTRY (EF-6E) |
| | EMERGENCY STOP BUTTON – STI No. 040 OR APPROVED EQUAL WITH STOPPER II 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 |
| 2 | 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 ƒ"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 |
| | 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 AND SHALL CONTINUE AS 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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| No. | Date | Revision |
|---|---|---|
| | | |


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COMMUNITY CENTER AND GYMNASIUM FOR
# Pitt County Office Park
403 Government Circle, Greenville, NC 27834

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

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COMMUNITY CENTER AND GYMNASIUM FOR

# Pitt County Office Park

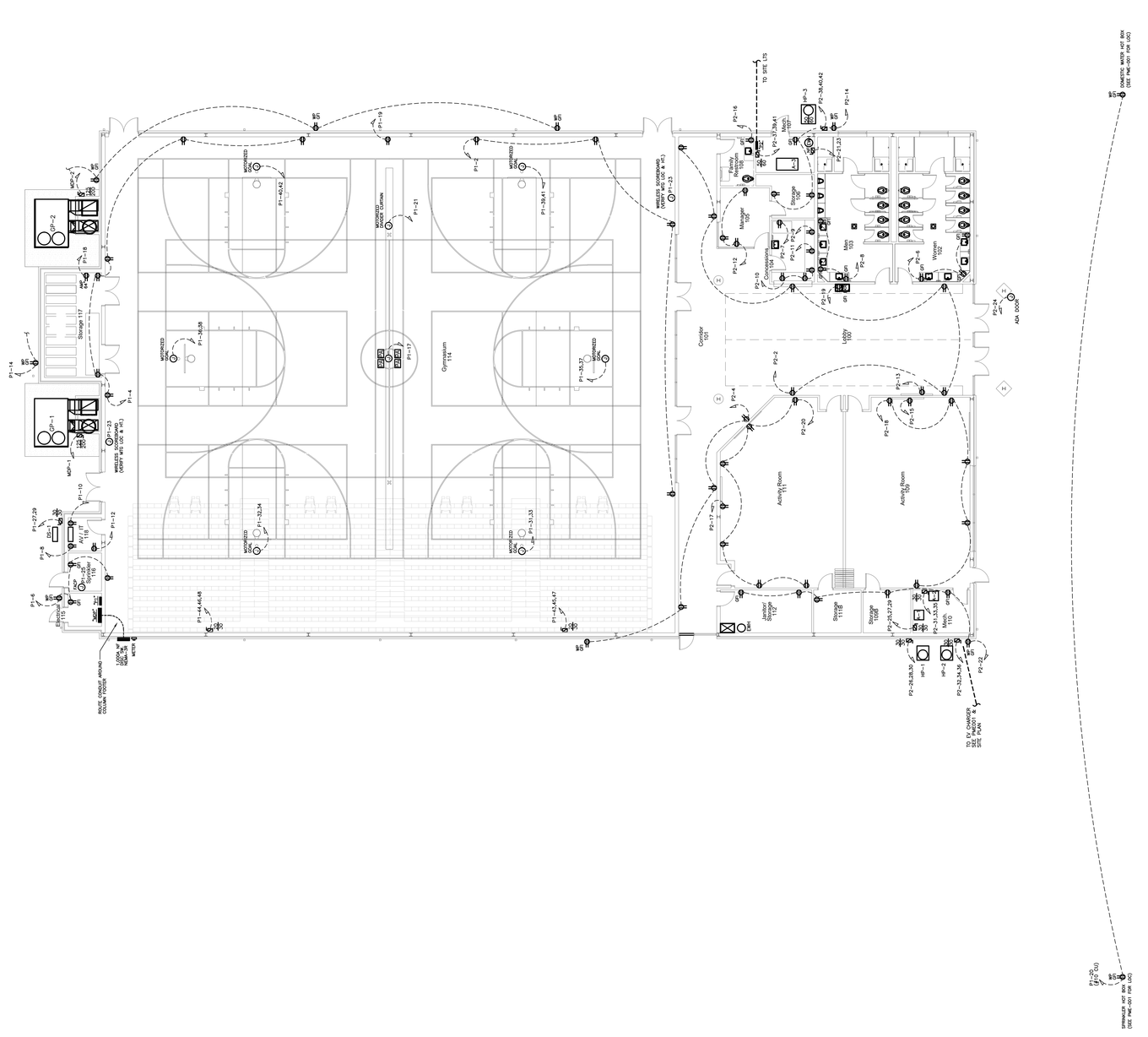
403 Government Circle, Greenville, NC 27834

| | |
|---|---|
| Project No. | 22207 |
| Date: | July 2023 |
| Drawing no. | E 101 |

HITE ASSOCIATES ARCHITECTURE PLANNING INTERIOR DESIGN GREENVILLE
418

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

| No | Date | Revision |
|---|---|---|
| | | |




# POWER PLAN (BASE BID)

SCALE: 3/32" = 1'-0"

ENGINEERING SOURCE of NC, PA
102-A Regency Blvd. Greenville, NC 27834
e-mail: info@engineeringsource.com
Tele (252) 439-0220 • Fax (252) 439-0221

Project No. ES23051

7/21/23

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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 | 0.0 | 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 | 0.0 | 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") | 0.8 | 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 | 10.2 | 122.0 | 0.0 | 0.0 | 4.7 | | | | 7.3 | 8.6 | 0.0 | 108.6 | 5.2 | 0.0 | ### | CONNECTED LOAD (KVA): | | | | | 306.7 |
| RECEPTACLES (KVA): | | | | | 20.7 | | | | | | | | | | | | | | | | | | DEMAND LOAD (KVA): | | | | | 308.0 |
| MOTORS (KVA): | | | | | 10.2 | | | | | | | | PHASE A | | | 103 | 858.7 | | | | | | | | | | | |
| A/C (KVA): | | | | | 230.6 | | | | | | | | PHASE B | | | 101 | 841.2 | | | | | | CONNECTED LOAD (AMPS): | | | | | 851.2 |
| HEATING (KVA): | | | | | 5.2 | | | | | | | | PHASE C | | | 103 | 856.0 | | | | | | DEMAND LOAD (AMPS): | | | | | 854.7 |
| 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 | 10.20 | KVA | X | 100 | % | = | **10.2 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 = | **854.7 amps** | | | | | = | **308.0 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)

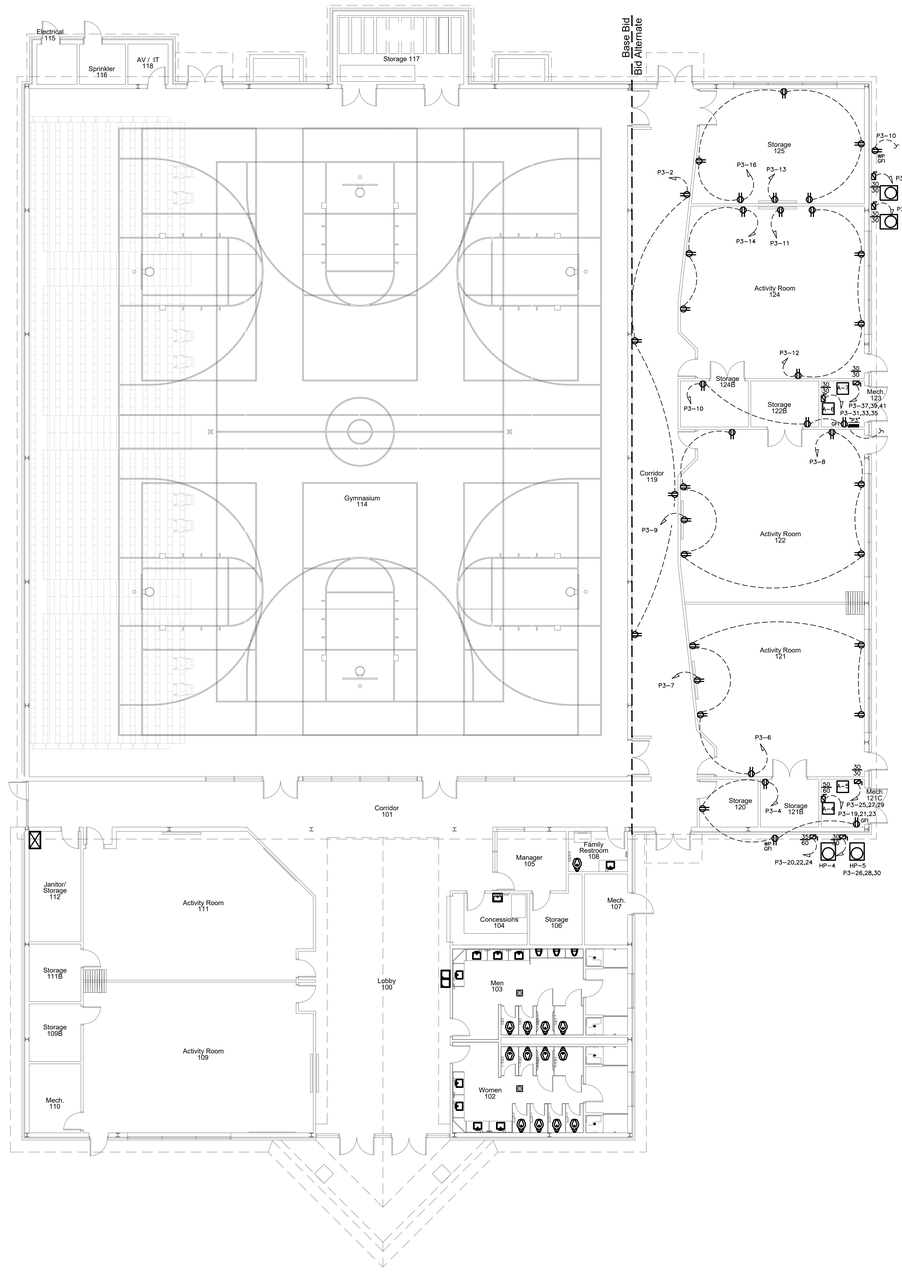
MAIN: 400 MLO | VOLTAGE: 208/120 | PHASE: 3 | WIRE: 4 | MOUNTING: SURFACE | AIC: 22,000 | BUS BARS: COPPER

| 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 | | | | | | | | | | | | | | | | | SPARE | 3/4" | 12 | 2 | 20 | 44 |
| 45 | | | | | | 1.4 | | | | | | | | | | | | | | | | | SPARE | 3/4" | 12 | 2 | 20 | 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): | | | | | 103.7 |
| MOTORS (KVA): | | | | | 0.0 | | | | | | | | PHASE A | | | 34 | 287.0 | | | | | | | | | | | |
| A/C (KVA): | | | | | 65.4 | | | | | | | | PHASE B | | | 32 | 263.7 | | | | | | CONNECTED LOAD (AMPS): | | | | | 279.2 |
| HEATING (KVA): | | | | | 5.2 | | | | | | | | PHASE C | | | 35 | 287.7 | | | | | | DEMAND LOAD (AMPS): | | | | | 287.9 |
| 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"

| No. | Date | Revision |
|---|---|---|
| | | |

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

COMMUNITY CENTER AND GYMNASIUM FOR
**Pitt County Office Park**
403 Government Circle, Greenville, NC 27834

HITE ASSOCIATES, P.C. — CERTIFICATE OF AUTHORIZATION — NORTH CAROLINA — 418 — REGISTERED ARCHITECTURAL CORPORATION — GREENVILLE

ENGINEERING SOURCE of NC, P.A.
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ES Project No: ES23051

SEAL 7/21/23 ENGINEER DAVID SON POU

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

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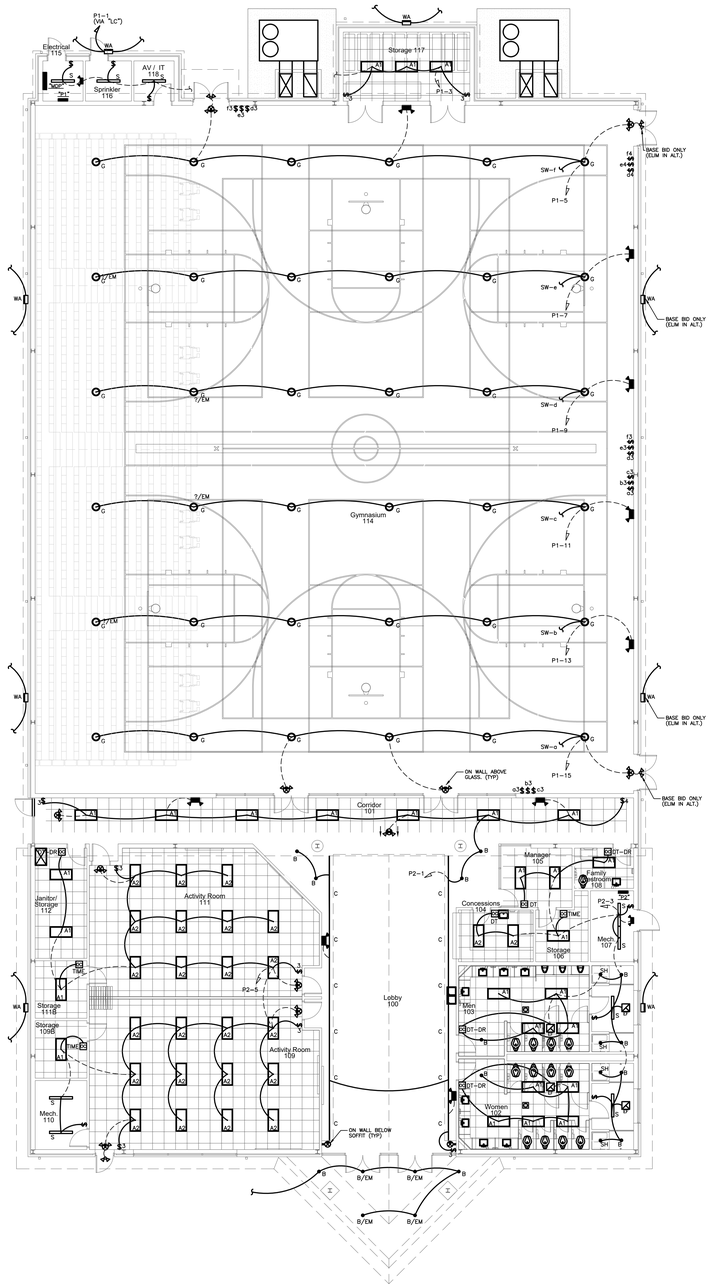


LIGHTING PLAN (BASE BID)
SCALE: 3/32" = 1'-0"

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COMMUNITY CENTER AND GYMNASIUM FOR
# Pitt County Office Park
403 Government Circle, Greenville, NC 27834

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7/21/23

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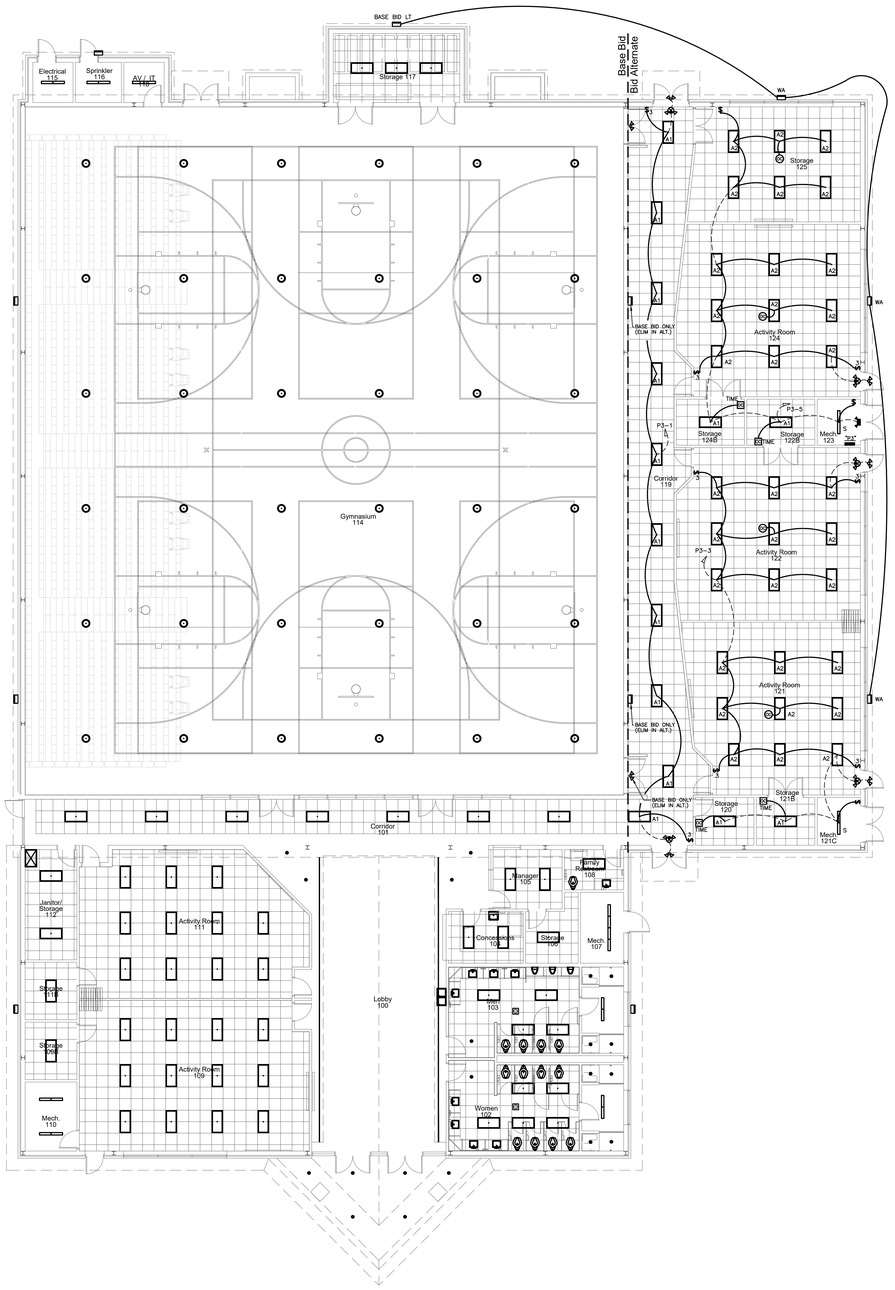


LIGHTING PLAN (ALTERNATE BID)
SCALE: 3/32" = 1'-0"

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CERTIFICATE NUMBER C-0418

COMMUNITY CENTER AND GYMNASIUM FOR

# Pitt County Office Park

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 036 DAVID WILSON PUGH
7/2/23

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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.

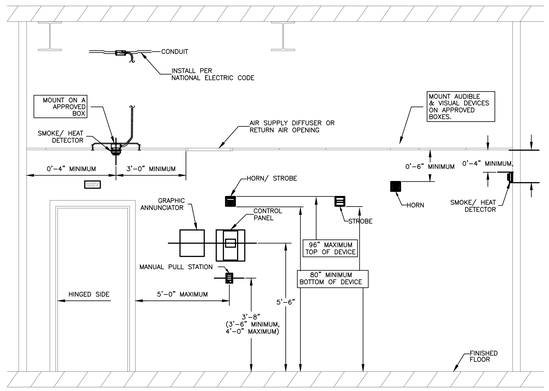
11. IN NEW GYM BUILDING, ALL PULL STATIONS SHALL HAVE PROTECTIVE POLYCARBONATE COVER PROVIDED AND INSTALLED. COVER SHALL BE STI STOPPER II OR EQUIVALENT APPROVED BY DESIGNER.

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.

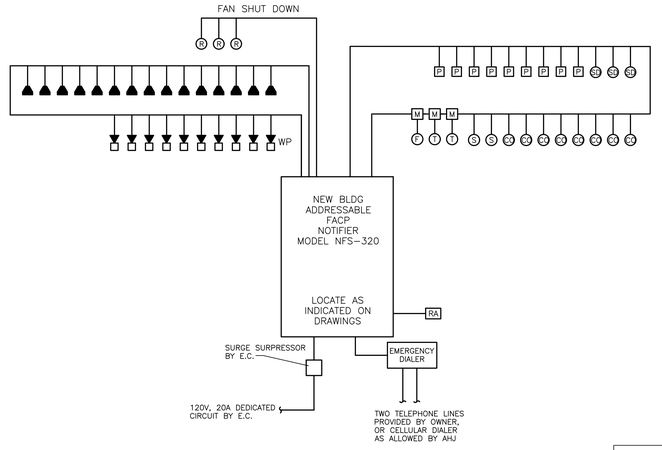
14. FA CONTRACTOR SHALL INCLUDE TESTING FOR THE FIRST RESPONDER EMERGENCY BDA SYSTEM IN HIS BID AND INCLUDE AN ALLOWANCE OF $35,000 TO PROVIDE AND INSTALL THE BDA SYSTEM IF IT IS REQUIRED.

NFPA 72 AND ADA DEVICE INSTALLATION REQUIREMENTS




FIRE ALARM DEVICE MOUNTING DETAIL
SCALE: N.T.S.

NEW GYM BLDG




# 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 ADD DEVICES SHOWN ON FA-101A TO THE BASE BID SYSTEM

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
- VM — 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 WHG) | 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 | | | | | | | X | X | | | | X | | | | | | | | | | | |
| | WIRE-TO-WIRE SHORT | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| AP-10 PUMP NS | MONITORING STAION (ALL POINTS) | | | | | X | X | | | X | | | X | | X | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |

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COMMUNITY CENTER AND GYMNASIUM FOR
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ES Project No: ES23051

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

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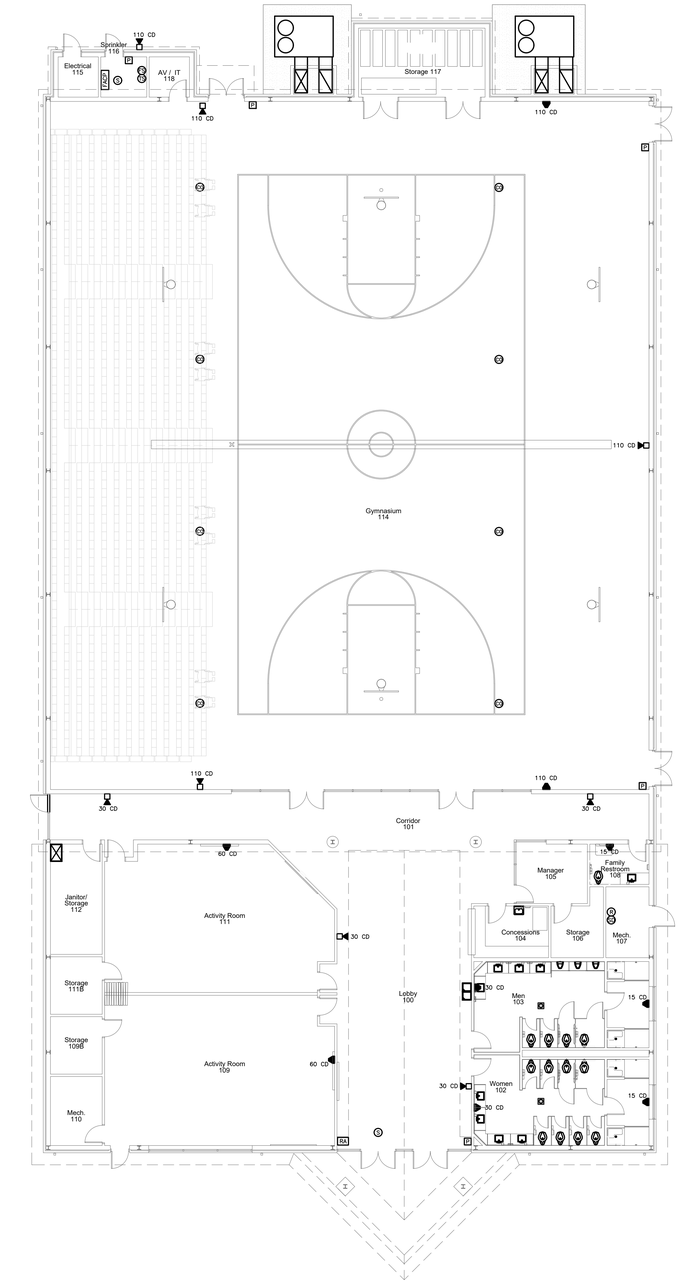


# FIRE ALARM PLAN (BASE BID)

SCALE: 3/32" = 1'-0"

AT HOTBOX SEE SITE PLAN FOR LOC

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COMMUNITY CENTER AND GYMNASIUM FOR

**Pitt County Office Park**

403 Government Circle, Greenville, NC 27834

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| Date: | July 2023 |
| Drawing no. | FA 101 |

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7/21/23

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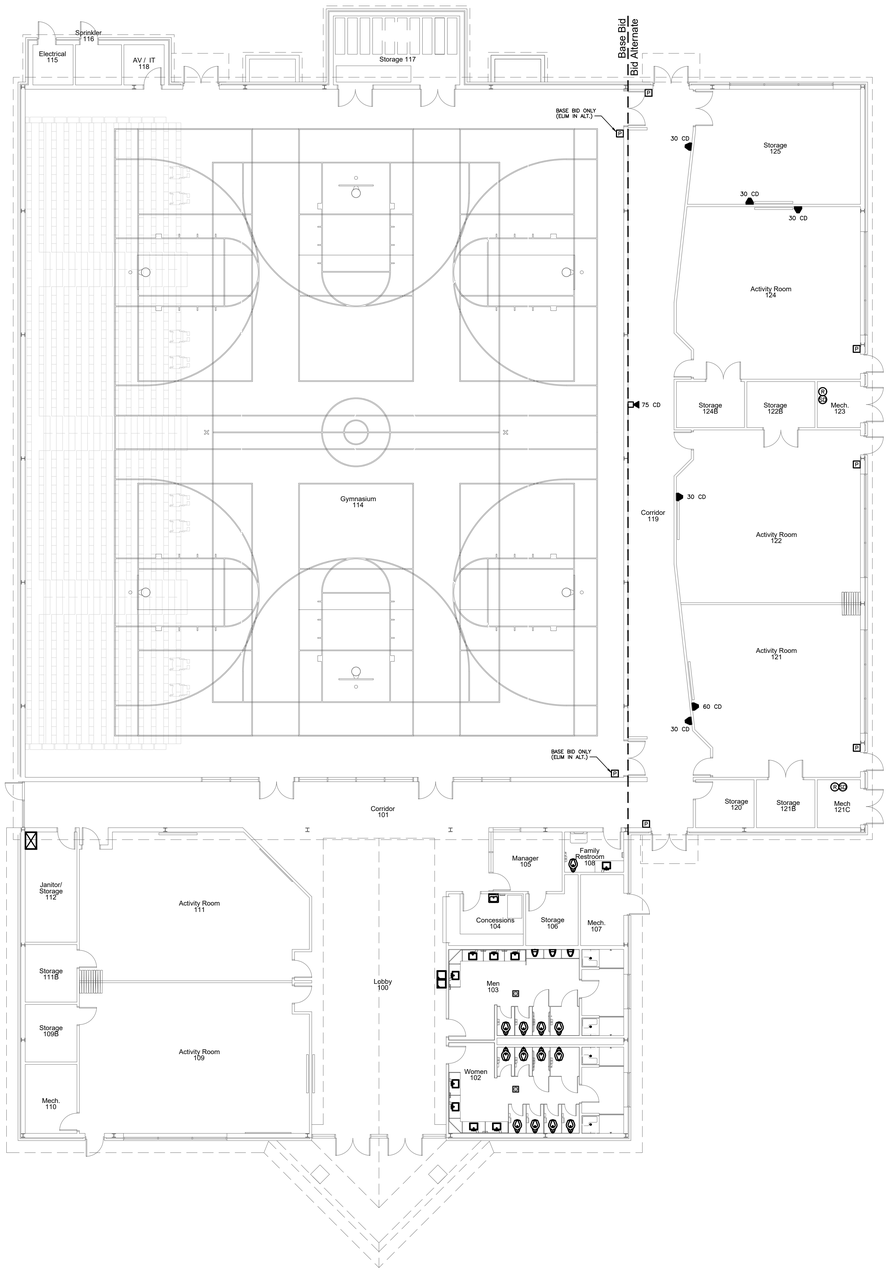


FIRE ALARM PLAN (ALTERNATE BID)
SCALE: 3/32" = 1'-0"

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COMMUNITY CENTER AND GYMNASIUM FOR

# Pitt County Office Park

403 Government Circle, Greenville, NC 27834

Project No. 22207

Date: July 2023

Drawing no. FA 101A

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REGISTERED PROFESSIONAL ENGINEER
D. WILSON FOX
7/21/23

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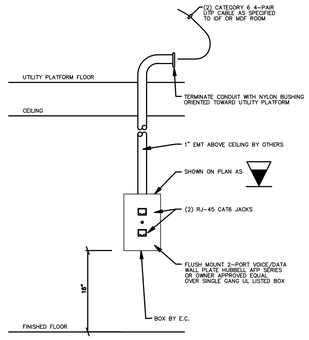
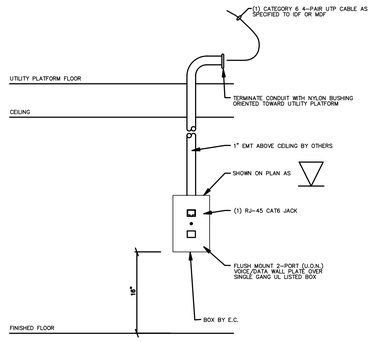
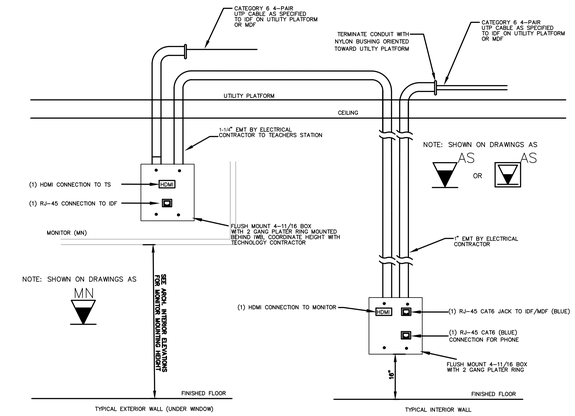


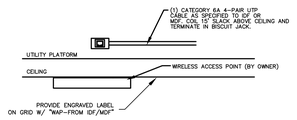

## 001.5 DUAL DATA OUTLET DETAIL
SCALE: NONE



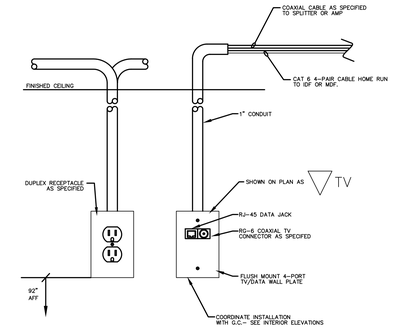

## 001.6 SINGLE DATA OUTLET DETAIL
SCALE: NONE




## 001.7 ACTIVITY ROOM MONITOR OUTLET DETAILS
SCALE: NONE




## 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

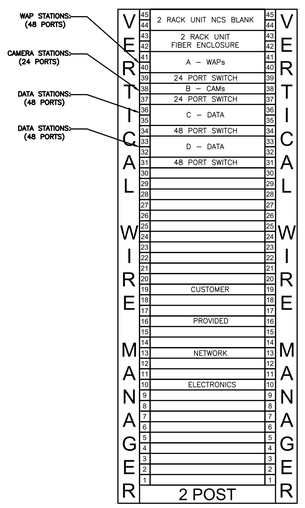
### LV SYMBOL LEGEND

| | |
|---|---|
| | CEILING MOUNTED WIRELESS ACCESS POINT-SEE DETAIL |
| | CIRCUIT CAMERA 3G BOX BY E.C. (SINGLE DIRECTION) |
| | CIRCUIT CAMERA 3G 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 3G BOX BY E.C. |
| | SECURITY KEYPAD, 3G BOX 54" A.F.F. |
| | WIDE ANGLE MOTION DETECTOR FOR SECURITY SYSTEM |
| | LONG RANGE MOTION DETECTOR FOR SECURITY SYSTEM |

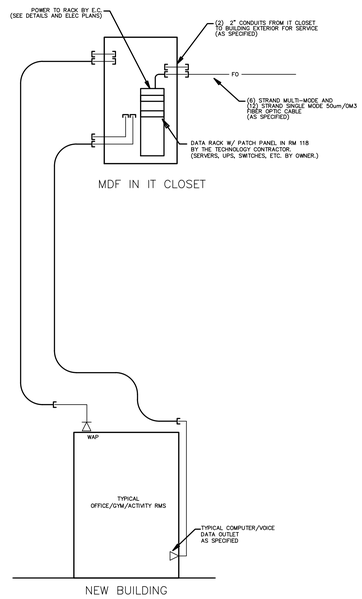
ABBREVIATIONS

| | |
|---|---|
| A.F.F. | ABOVE FINISH FLOOR |
| B.F. | BELOW FINISH FLOOR |
| EMT | ELECTRICAL METALLIC TUBING |
| E.C. | ELECTRICAL CONTRACTOR |
| P.C. | PLUMBING CONTRACTOR |
| M.C. | MECHANICAL CONTRACTOR |
| E.E. | ELECTRICAL CONTRACTOR OF EMPTY CONDUIT |
| T.C. | TECHNOLOGY SYSTEM CONTRACTOR |
| W.P. | WEATHERPROOF |
| T.V. | TELEVISION |
| U.O.N. | UNLESS OTHERWISE NOTED |
| U.G. | UNDERGROUND |

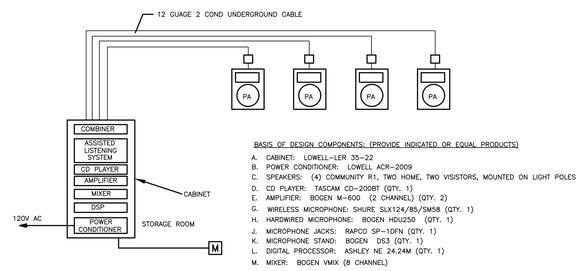
NOTE: LEGEND IS FOR REFERENCE ONLY - SYMBOLS/ABBREVIATIONS SHOWN DO NOT NECESSARILY APPLY TO THIS PROJECT.




## 001.3 PROPOSED DATA RACK LAYOUT
SCALE: NONE




## 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

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| | | |

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COMMUNITY CENTER AND GYMNASIUM FOR
**Pitt County Office Park**
403 Government Circle, Greenville, NC 27834

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CARY D. WILSON 036418 ENGINEER — 7/21/23

| | |
|---|---|
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| Date: | July 2023 |
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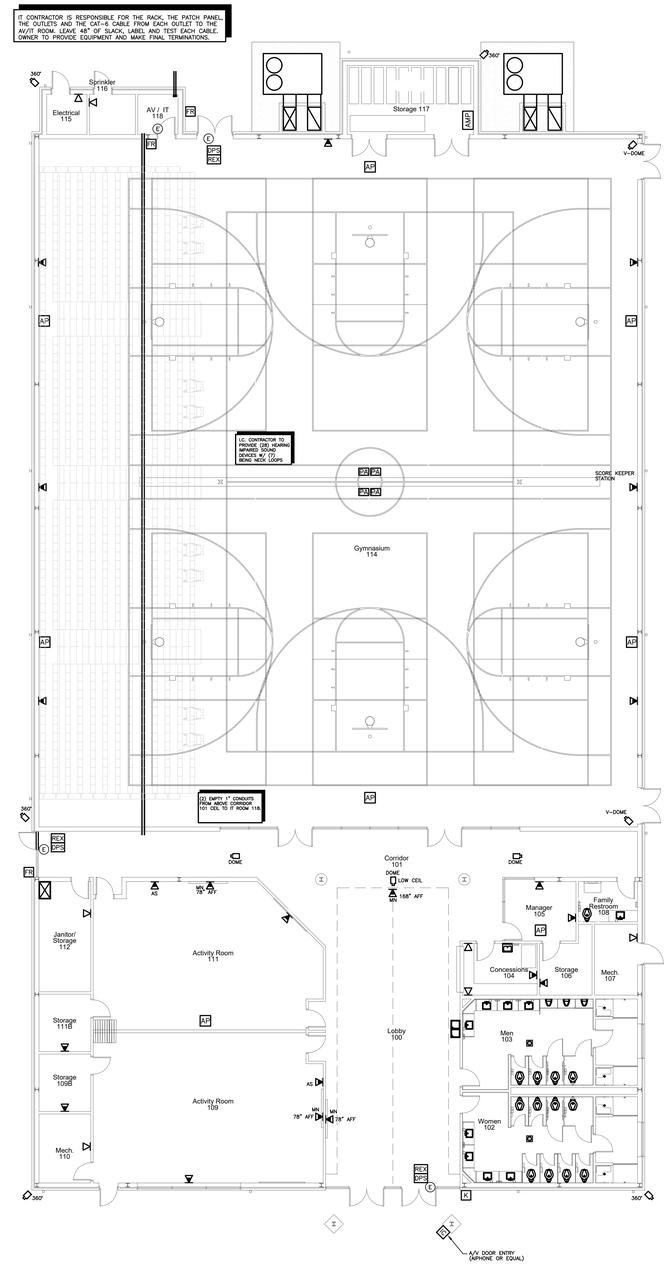
IT CONTRACTOR IS RESPONSIBLE FOR THE RACK, THE PATCH PANEL, THE OUTLETS AND THE CAT-6 CABLE FROM EACH OUTLET TO THE AV/IT ROOM. LEAVE 48" OF SLACK, LABEL AND TEST EACH CABLE. OWNER TO PROVIDE EQUIPMENT AND MAKE FINAL TERMINATIONS.

ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING A DEDICATED 3/4" CONDUIT FROM AN ACCESSIBLE LOC TO EACH "IT" DEVICE IN THE HIGH AREA OF THE GYM

SEE ARCHITECTURAL SHEET SECTIONS FOR RECEPTACLE AND DATA MOUNTING HEIGHTS AND LOCATIONS PRIOR TO ANY ROUGH-INS.




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

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COMMUNITY CENTER AND GYMNASIUM FOR
# Pitt County Office Park
403 Government Circle, Greenville, NC 27834

Project No. 22207

Date: July 2023

Drawing no. IT 101

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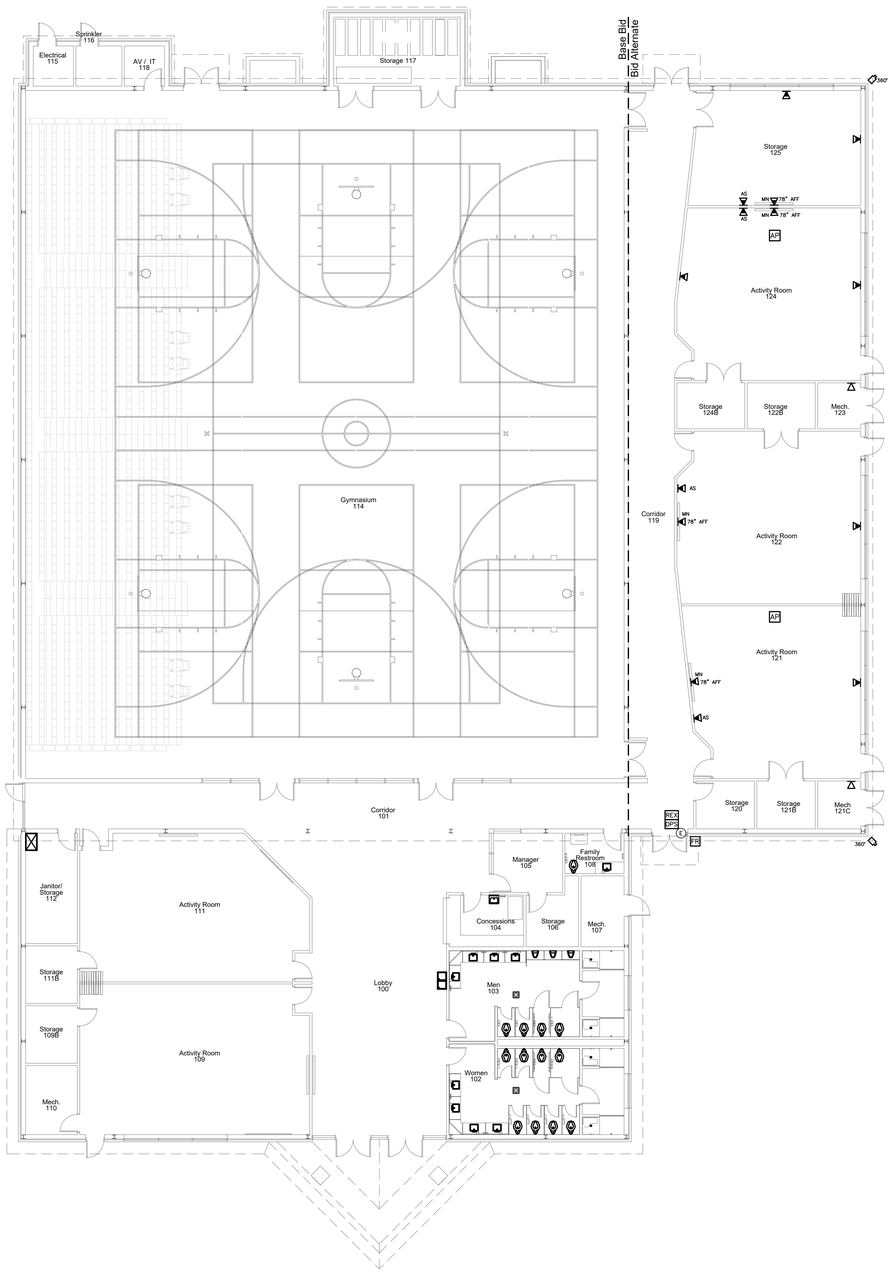


TECHNOLOGY PLAN (ALTERNATE BID)
SCALE: 3/32" = 1'-0"

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