



SECTION 01 01 01

SCOPE OF WORK – Green Sea Floyds Elementary School CANOPY

1. Project:

1.1 The following is summary of work required for the installation of a new canopy walkway covering.

1.1.1. Project Location: 5000 Tulip Grove Road, Green Sea, SC 29545

1.1.2. Owner: Horry County Schools

2. Summary of Work

2.1 This work includes the provision of all labor, tools, equipment, supervision, materials and administration to integrate the work outlined in this project manual.

2.2 The Contractor is responsible for identifying the location of all utilities. Any utilities that are interrupted or damaged by the Contractor or subcontractor must be repaired before the Contractor leaves the job site that day. Any interruption in service will need to be coordinated and approved in advance with the HCS Project Manager.

2.3 Work in this section shall include design, fabrication and installation of a completely welded, extruded aluminum canopy system. All work shall be in complete accordance with the aeries and this specification.

2.4 References

2.4.1. Aluminum Design Manual 2000, Specifications & Guidelines for Aluminum Structures

2.4.2. ASCE 7, Minimum Design Loads for Buildings and Other Structures

2.4.3 American Architectural Manufactures Association (AAMA)

2.4.4 American Society for Testing and Materials (ASTM)

2.5 Submittals

2.5.1 Product Data: Submit manufacturer’s product information, specifications and installation instructions for components and accessories.

2.5.2 Shop Drawings: Submit complete erection drawings showing attachment system, column and gutter beam framing, transverse cross sections, covering and trim details, and option installation details to clearly indicate a proper assembly of components.

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Detailed shop drawings shall be submitted, sealed by a State Registered Structural Engineer.

- 2.5.3 Certification: Submit written certification prepared and signed by a State Registered Structural Engineer verifying that framing design will safely resist wind uplift loading requirements of the current International Building Code (IBC), as well as complying with ANSI/ASCE 7.

2.6 Quality Assurance

- 2.6.1 Codes and Standards: Comply with provisions of the following except as otherwise indicated: Current International Building Code (IBC) and American Welding Society (AWS) standards for structural aluminum welding.
- 2.6.2 Manufacturer: Walkways will be installed at one (1) different locations at the school. Obtain aluminum covered walkway system from only one (1) manufacturer, although several may be indicated as offering products complying with requirements. The Contractor MUST submit to the Procurement Specialist descriptive literature on a proposed walkway system for approval no less than ten (10) days prior to the bid opening.
- 2.6.3 Field Measurements: Take field measurements prior to preparation of shop drawings and fabrication where possible, to insure proper fitting work.
- 2.6.4 Coordination: Coordinate work of this section with work of other sections which interface with covered walkway system (sidewalk, curbs, building fascias, etc.).

3. Product Specifications

3.1 Materials

- 3.1.1 Aluminum Extrusions: All sections shall be extruded aluminum 6063 alloy, heat treated to T-6 temper.
- 3.1.2 Finishes: Two-Coat Fluoropolymer (Kynar): AAMA 2605. Fluoropolymer finish containing not less than 70 percent PVDF resin by weight in both color coat and clear topcoat. Prepare, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' written instructions. Color to be Dark Bronze to match existing canopies.

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3.2 Components – Canopies

- 3.2.1 Columns: Shall be 6" x 6". Columns shall be radius cornered tubular extrusions of size specified by manufacturer's structural engineer with cutout and internal diverter for drainage where indicated. Circular downspout opening in column is not acceptable.
- 3.2.2 Beams: Shall be 6" x 8" beams with open-top tubular extrusions, top edges thickened for strength and designed to receive deck members in self-flashing manner.
- 3.2.3 Deck: Shall be 6" x 3" x .060" pan & cap extruded self-flashing sections interlocking into a composite unit.
- 3.2.4 Fascia: Fascia shall be an extruded "J" Shaped 7" profile.

3.3 Fabrication

- 3.3.1 Drainage: Water shall drain internally from deck to beams to columns, for discharge out to rain diverters at or below ground level as indicated on architectural drawings.
- 3.3.2 Deck Construction: Deck shall be manufactured of extruded modules that interlock in a self-flashing manner. Interlocking joints shall be positively fastened at 18" o.c. creating a monolithic structural unit capable of developing the full strength of the sections. The fastening must have minimum shear strength of 350 lbs. each. Deck shall be assembled with sufficient camber to offset dead load deflection.
- 3.3.3 All canopy areas above doorways was must be flashed back into the brick façade.

4. Installation and Site work

4.1 Preparation

- 4.1.1 Erection shall be performed after all concrete, masonry, and roofing work in the vicinity is complete and cleaned.
- 4.1.2 All materials and debris from footing spoils and material packaging & cut off shall be disposed of offsite.

4.2 Installation

- 4.2.1 Columns: Shall be installed via core drills in existing concrete. Size as determined by South Carolina Registered Engineer.
- 4.2.2 Erection: Protective cover shall be erected true to line, level and plumb at height indicated in drawings, with surfaces free from distortion or other defects in appearance.
- 4.2.3 Lighting shall be provided at new canopy locations as indicated on construction documents. See lighting specification for details. The contractor will be responsible for the wiring, conduit and all light fixtures. The contractor must tie into an electrical circuit on either a photo eye or timer for the light operations. No circuit can have over an 80% load.

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4.2.4 All exterior holes created from the removal of the overhead support canopies must be properly caulked to create a watertight barrier. The caulk must match in color to the building's façade.

4.3 Cleaning

4.3.1 All protective cover components shall be cleaned promptly after installation. Remove protective film from members. Clean canopy of dirt, grease, handprints, and other blemishes. Leave area in a neat, clean, and acceptable condition.

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5. Specifics:



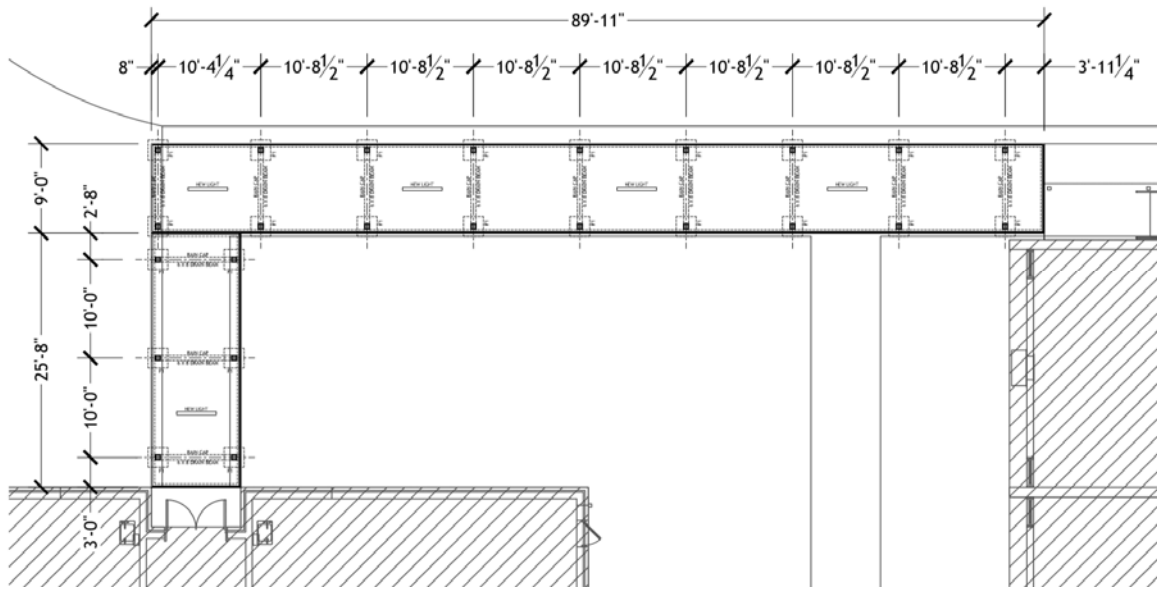
HORRY COUNTY SCHOOLS – Green Sea Floyds Elementary School

The yellow areas represent the locations of the new canopies.

SCOPE OF WORK – WALKWAY COVERING
HCS FACILITIES – GREEN SEA FLOYDS ELEMENTARY SCHOOL

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Canopy - Typ. Spacing (for reference only)



Contractor Initials ____ District Initials ____

SCOPE OF WORK – WALKWAY COVERING
HCS FACILITIES – GREEN SEA FLOYDS ELEMENTARY SCHOOL

VISION 4

Vandal Resistant

VPF 4 Series Fluorescent



WALL / CEILING/
PENDANT MOUNT
LAMPS: T5, T5HO

Fixture Type	Date
Job Name	Approved By
Catalog Number	

SPECIFICATIONS

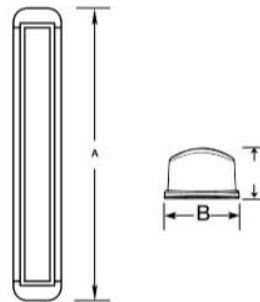
ADA Compliant



- Description** The Vision 4 series features an all aluminum construction and optional wet location listing which allows it to be used in many challenging environmental conditions. Designed in conjunction with an ophthalmologist, the polycarbonate lens provides complete control of glare and lamp image while maintaining the high efficiency of clear optical material. The Vision 4 series can be row mounted to any length. Natatorium finish is standard for all versions of this fixture.
- Housing** Marine grade heat treated extruded aluminum. Chemically primed and finished with robotically applied polyester powder coat.
- Lens** Extruded UV stabilized opal polycarbonate with integral prisms. Maximum wall thickness 0.160". Secured to housing with die cast aluminum clamps and stainless steel TORX® head screws.
- End Caps** Die-cast marine grade aluminum with conduit knockouts that are visible from interior of end cap.
- Ballast** Electronic high frequency ballast with less than 10% total harmonic distortion, 120V-277V only. 347V optional.
- Sockets** Precision spring loaded snap type for maximum impact damping.
- UL Listing** U.L., C.U.L., Damp Standard, Wet optional.
- Lifetime Warranty** Luminaire LED Incorporated will repair or replace any fixture damaged due to vandalism for the lifetime of the installation.

DIMENSIONAL DATA

	A	B	C
VPF42HO	26.10	4.35	2.58
VPF43HO	37.91	4.35	2.58
VPF44HO	49.72	4.35	2.58



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Luminaire LED Incorporated products are manufactured in the USA with components purchased from USA suppliers, and meet the Buy American requirements under the ARRA. Content of specification sheets is subject to change; please consult our website for current product information.

Rev: 2/17

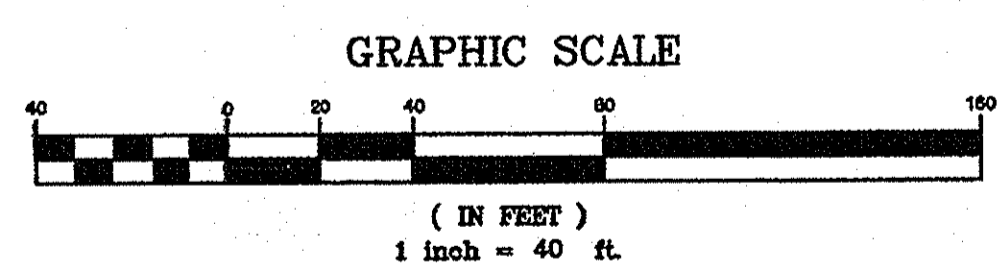
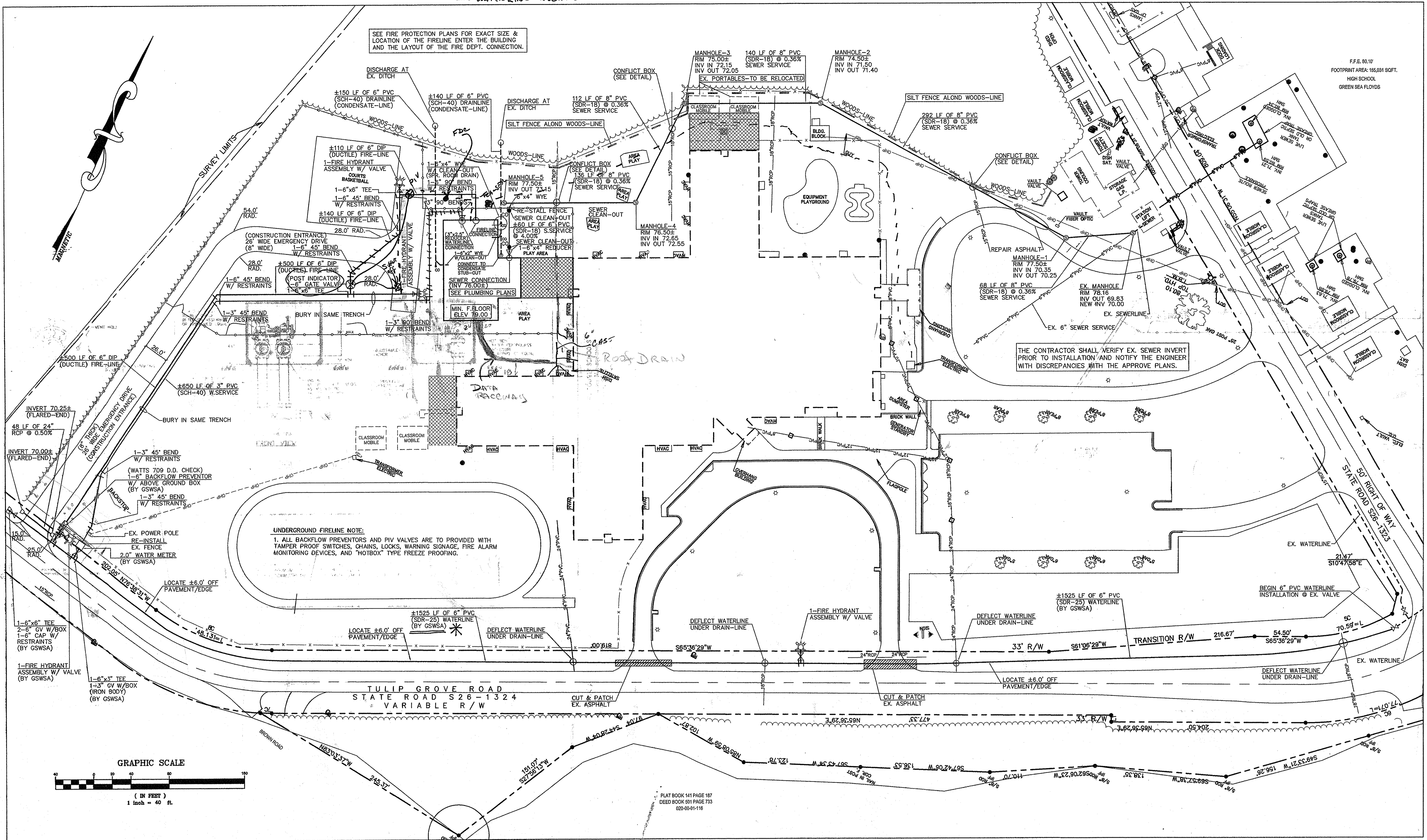
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SCOPE OF WORK – WALKWAY COVERING
HCS FACILITIES – GREEN SEA FLOYDS ELEMENTARY SCHOOL

**THIS DRAWING IS FOR INFORMATIONAL PURPOSES ONLY.
THE CONTRACTOR MUST FIELD VERIFY EXISTING CONDITIONS**

THIS DRAWING IS THE PROPERTY OF TIMBER ARCHITECTURAL GROUP. UNAUTHORIZED USE OF ANY KIND, INCLUDING USE ON OTHER PROJECTS, IS PROHIBITED.

WaterLine Location



CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR OBTAINING FIELD LOCATIONS OF EXISTING UNDERGROUND UTILITIES

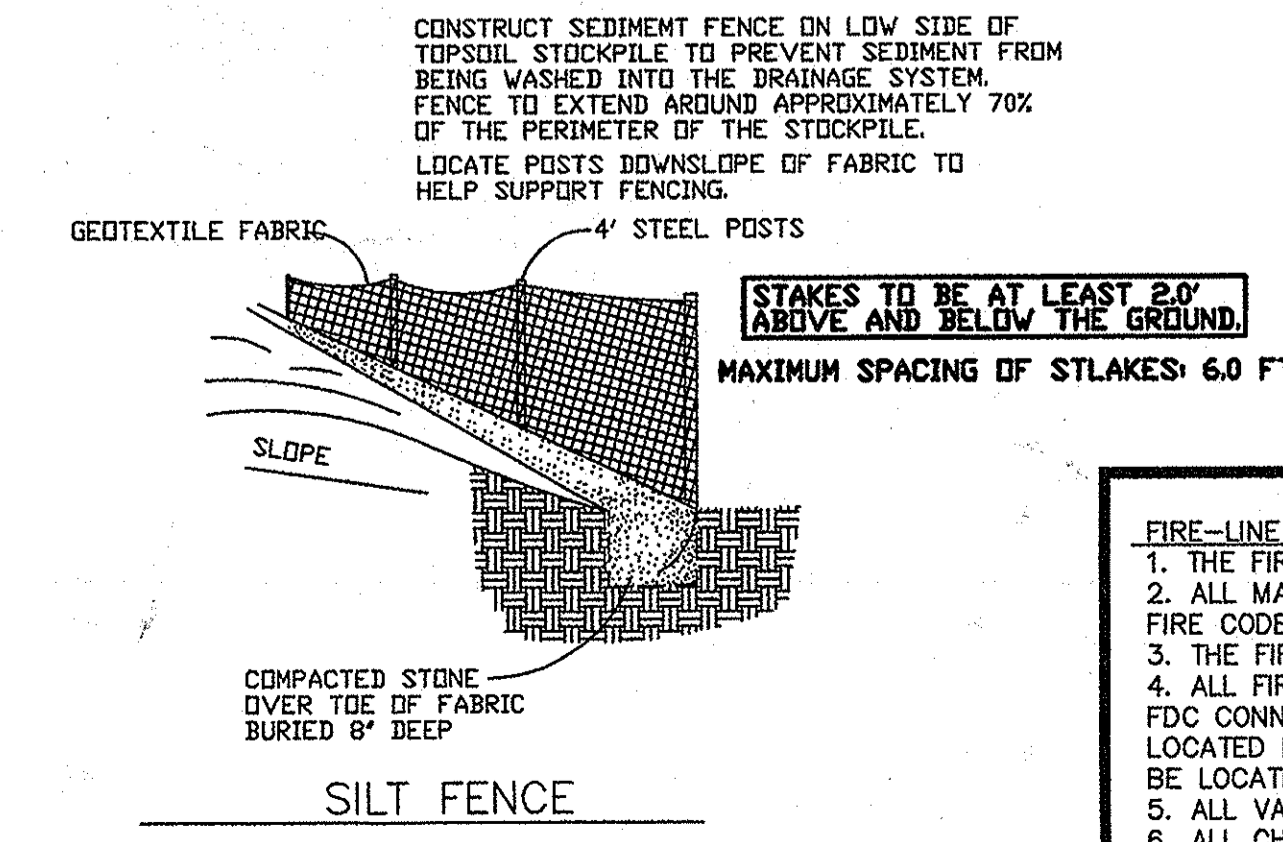
-CALL BEFORE YOU DIG-
PALMETTO UTILITY PROTECTION SERVICE
1-888-721-7877
CALL 3 DAYS BEFORE DIGGING.

- WATER & SEWER NOTES:**
1. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE WATER & SEWER SYSTEMS WITH GSWA.
 2. ALL SEWER CLEAN-OUTS SHALL BE TRAFFIC BEARING, CONCRETE COLLARS ARE REQUIRED FOR ALL CLEAN-OUTS NOT LOCATED IN PAVEMENT AREAS.
 3. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE REPAIRING AND/OR REPLACING ANY UTILITIES THAT BECOME DAMAGED DURING THE CONSTRUCTION OF THE PROJECT.
 4. COORDINATE THE TIE-IN OF THE SCHOOL WATER/SEWER SYSTEM WITH GSWA.
 5. THE CONTRACTOR SHALL NOTIFY THE ENGINEER ABOUT ANY DISCREPANCIES BETWEEN THE ALIGNMENT & ELEVATIONS OF EXISTING UTILITIES AND THE DESIGN PLANS.
 6. THE COLOR OF THE WATER-LINE PIPE SHALL BE BLUE AND THE SEWER PIPE SHALL BE GREEN.
 7. THE SITE CONTRACTOR SHALL BE RESPONSIBLE FOR CONNECTING THE SERVICE LINES TO THE PROPOSED PLUMBING LINES APPROXIMATELY 5' FROM THE PROPOSED BUILDING. SEE PLUMBING PLANS FOR THE ACTUAL SIZE, LOCATION, AND ELEVATION OF THE UTILITY LINE SUBMITS FROM BUILDING.
 8. ALL MANHOLES SHALL HAVE NON-VENTED INFLOW PROTECTORS INSTALLED.
 9. #12 TRACER WIRE IS REQUIRED TO BE PLACED OVER ALL PLASTIC UTILITY LINES FOR EASE OF LOCATION - INCLUDING GRAVITY SEWER AND SERVICE LINES.
 10. THE PROPOSED SEWER LINES SHALL HAVE A MINIMUM 10 FT HORIZONTAL AND 15 FT VERTICAL SEPARATOR BETWEEN WATER-LINES.
 11. ALL SEWER & FORCEMAIN LINES SHALL HAVE A MINIMUM 30" COVER.
 12. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL ON ALL WATER AND SEWER MATERIALS.
 13. THE 6" SEWER-PIPE SHALL BE SDR-35 PVC UNLESS NOTED OTHERWISE.
 14. THE WATER-LINE SHALL BE INSTALLED TO HAVE A MINIMUM 30" COVER.
 15. ALL WATER-LINES AND SERVICES SHALL BE C900 SDR-25 PVC UNLESS NOTED OTHERWISE.
 16. ALL BENDS, JUNCTIONS, AND TEES SHALL BE RESTRAINED PER GSWA SPECIFICATIONS.
 17. #12 TRACER WIRE SHALL BE PLACED OVER PROPOSED WATER-LINE & MARKING TAPE IN THE TRENCH FOR EASE OF LOCATION.
 18. WHERE THERE IS A CROSSING WITH A DRAIN-LINE, THERE MUST BE A MINIMUM 18" SEPARATION WITH THE RCP OR DUCTILE IRON PIPE MUST BE USED.
 19. THE CONTRACTOR SHALL VERIFY THE DEPTH OF THE SEWER SERVICE INSTALLED BY THE PLUMBER TO 5.0' OUTSIDE THE BUILDING BEFORE CONNECTING TO THE GRABBY SYSTEM.
 20. THE SANITARY SEWER SYSTEM IS DESIGNED TO MEET THE 50 YEAR FLOOD ELEVATION.

WATER, SEWER, & DRAINAGE INSTALLATION

CONTRACTOR SHALL NOTIFY ENGINEER PRIOR TO START OF ANY CONSTRUCTION AND PARTICIPATE IN ANY PRE-CONSTRUCTION CONFERENCES AS MAY BE REQUIRED.

ANY INFORMATION SHOWN ON THESE DRAWINGS PERTAINING TO THE EXISTENCE, LOCATION OR ELEVATION OF EXISTING UTILITIES HAS BEEN TAKEN FROM INFORMATION SUPPLIED BY OTHERS. THE ENGINEER HAS PERFORMED NO EXCAVATIONS TO VERIFY THE ACCURACY OF THIS INFORMATION. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE APPROPRIATE AGENCIES TO OBTAIN AN ACCURATE FIELD LOCATION OF ANY AND ALL UTILITIES THAT MAY BE IN THE VICINITY OF THE PROPOSED WORK. THE CONTRACTOR SHALL VERIFY, BY FIELD MEASUREMENT, THE LOCATION AND ELEVATION OF ANY UTILITIES THAT MAY AFFECT CONSTRUCTION OF THE PROPOSED WORK. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN THE INFORMATION AS SHOWN ON THE DRAWINGS AND THAT OBTAINED BY FIELD MEASUREMENTS, AND OF ANY POSSIBLE CONFLICTS OR INTERFERENCES WITH THE PROPOSED WORK. THE ENGINEER SHALL BE ALLOWED THE TIME NECESSARY TO MAKE DESIGN REVISIONS REQUIRED TO MINIMIZE OR ELIMINATE DISCOVERED CONFLICTS.

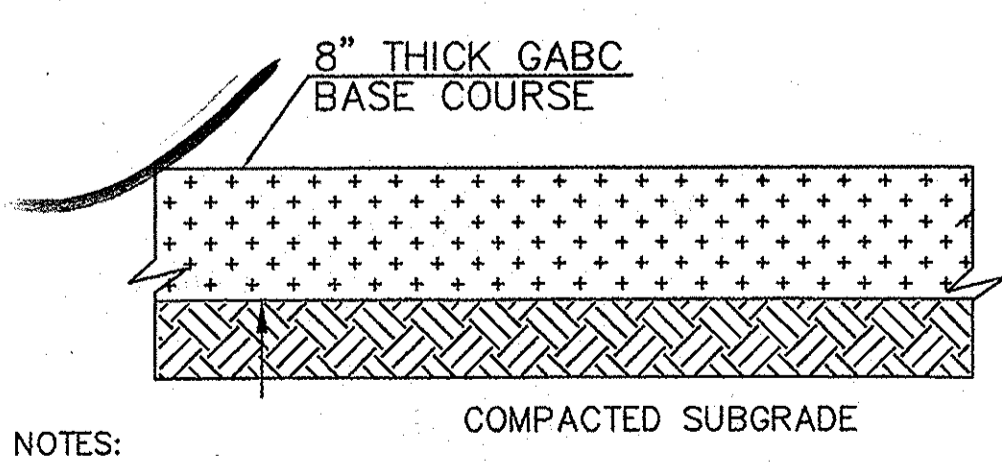


FIRE DESIGN NOTE:

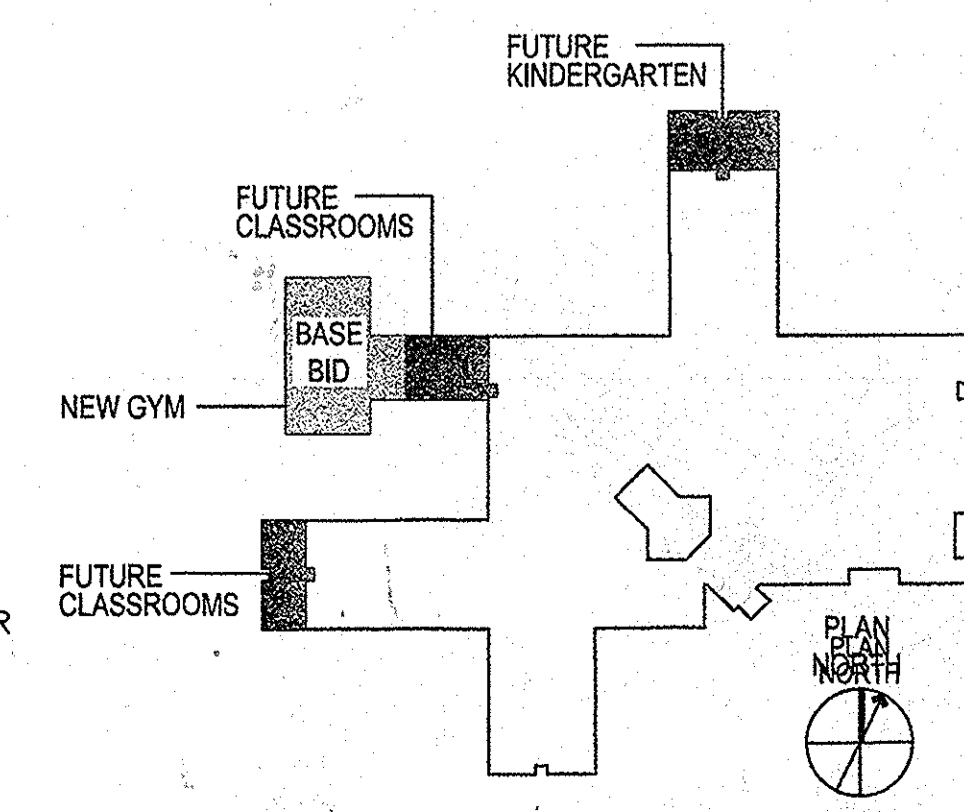
1. SEE THE BUILDING FIRE PROTECTION PLANS FOR EXACT LOCATION OF THE FIRE SPRINKLER ROOM. THE SITE FIRE PROTECTION CONTRACTOR SHALL COORDINATE WITH THE BLDG. SPRINKLER CONTRACTOR THE INSTALLATION & TESTING OF THE PROPOSED FIRE SYSTEM.

FIRE-LINE INSTALLATION:

1. THE FIRE LINE SHALL BE INSTALLED PER THE FIRE CODE REQUIREMENTS OF THE IBC 2000 CODE.
2. ALL MATERIALS & FITTINGS SHALL HAVE A MINIMUM 250 PSI RATING AND MEET ALL APPLICABLE FIRE CODE REQUIREMENTS.
3. THE FIRE-LINE SHALL BE C900 - 200 PSI PRESSURE CLASS PVC AND/OR DUCTILE IRON PIPE.
4. ALL FIRE DEPARTMENT CONNECTIONS (FDC) SHALL BE WITHIN 100 FT OF A FIRE HYDRANT. THE FDC CONNECTION SHALL BE LOCATED WHERE EASILY VISIBLE FROM THE MAIN PARKING - NOT TO BE LOCATED IN FRONT OF PARKING STALLS AND/OR OTHER OBSTRUCTIONS. THE FDC CONNECTION SHALL BE LOCATED A MINIMUM 25.0' FROM THE BUILDING.
5. ALL VALVES DOWNSTREAM OF THE BACKFLOW PREVENTOR SHALL BE POST INDICATOR VALVES.
6. ALL CHECK VALVES SHALL BE DIRECT BURIAL PER THE FIRE CODE - UNLESS LOCATED INSIDE THE BUILDING.
7. ALL FITTINGS, VALVES, BENDS, ETC SHALL BE RESTRAINED TO WITHSTAND A MINIMUM 250 PSI OF PRESSURE.



- NOTES:**
1. THIS ROADWAY SECTION IS ONLY A RECOMMENDATION THAT IS BASED ON PAST DESIGNS. FOR A SPECIFIC DESIGN, SOIL BORINGS MUST BE TAKEN AND THE ACTUAL DESIGN ROADWAY SECTION SHOULD BE DETERMINED BY A GEOTECHNICAL ENGINEER.
 2. ALL MATERIALS SHALL MEET APPLICABLE STANDARDS SET FORTH IN THE SCDOT CONSTRUCTION STANDARDS LATEST EDITION.
 3. SUBGRADE SHALL BE FREE OF ALL ROCKS AND DEBRIS LARGER THAN 1" DIAMETER AND SHALL BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY. CERTIFIED COMPACTION TESTS MUST BE SUBMITTED TO THE ENGINEER PRIOR TO APPLICATION OF ANY BASE MATERIAL (TO BE DETERMINED IN THE FIELD BY THE ENGINEER).
 4. GABC BASE COURSE SHALL BE COMPACTED TO 100% MODIFIED PROCTOR DENSITY.
- EMERGENCY ACCESS DRIVE
N.T.S.



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Construction Management
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**WATER & SEWER BEKEN SEA FLOYDS ELEMENTARY SCHOOL
NEW GYMNASIUM**

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DRAWN BY: J. W. BROWN
CHECKED BY: J. W. BROWN

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