Hurricane Florence Repairs
New Hanover County
Fire Station 12
3805 US-421
Wilmington, NC
28401

Construction Drawings
1 May, 2020

SITE LOCATION MAP

INDEX OF DRAWINGS

G1.0 Cover, Index, Legend, Abbreviations
G2.0 Life Safety Plan, Appendices & Stamps
1 May, 2020

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1. Min. Stud depth is 3-1/2 in., min. thickness of insulation (Item 3) is 3 in., and two layers of gypsum board panels (1/2 in. or 5/8 in. thick) shall be attached to furring channels as described in Item 5.

2. First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in., 5/8 in. thick panels or 2-5/8 in. long for 3/4 in. thick panels, spaced max. 24 in. OC perpendicularly to studs. Channels secured to studs as described in Item 5A. Screws offset min. 6 in. from layer below.

3. Fourth layer- 2-5/8 in. long for 1/2 in. thick panels or 3 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below.

4A. As an alternate to Item 3, furring channels and Steel Framing Members*, is used. Use with Item 6. Gypsum board panels (1/2 in. or 5/8 in. thick) attached to opposite side of stud without furring channels as described in Item 5. One layer of gypsum board panels (1/2 in. or 5/8 in. thick) shall be attached to furring channels as described in Item 5. Joint covering (Item 7) not required.

4B. When Item 6B, Steel Framing Members*, is used, Nonbearing Wall Rating is limited to 1 hr, 2 1/2 hr, 3 hr, and 4 hr ratings are as follows:

- 1 hr: None
- 2 1/2 hr: None
- 3 hr: None
- 4 hr: None

5. Sections A, B, C, D, E, F, G, H, I, J of UL Assemblies. See Hurricane Florence Repairs New Hanover County Fire Station 12 Fire Station 12

UL Assemblies

Depth

Type AS

Type Isomax

1

1

411 Peachtree Avenue, Suite 200
Wilmington, NC 28403
Office: (910) 399-1123

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1. Demolish quarry tile flooring and tile base.
2. Demolish VCT flooring.
3. Demolish plywood infill from 12-0 x 12-0 overhead door opening. Demolish door track and operator.
4. Demolish 3'x3' ventilation louver and metal trim.
5. Remove tile flooring and resilient base to length of demolished wall and prep slab per spec section 09 0561.
6. Demolish existing broadloom carpet, adhesive and resilient base, and prep slab per spec.
7. Resilient athletic sheet flooring and resilient base to remain, U.N.O.
8. Salvage door, frame, and hardware, to be installed in new opening - See Door Schedule on sheet A6.0.
9. Salvage window, to remain.  Where extent of new concrete walk is less than existing concrete walk, provide topsoil fill and create a bermed bermuda sod, grade to provide positive drainage away from building.  Water sod until established.
10. Salvage  light fixtures and relocate per plans - See Electrical drawings.
11. Salvage  light fixtures from North vehicle bay, and provide to Owner - See Electrical drawings.
12. Coordinate  with Owner's vehicle exhaust system vendor to salvage ducts from North vehicle bay, and salvage exhaust system fan for reinstallation in adjacent vehicle bay - See Coordination Drawings.
13. Demolish door leaf, existing frame to remain.  Salvage hardware for installation on new door leaf.
14. Demolish floor drain grate, sump to remain.  Outlet is plugged and drain line abandoned in place.  Verify that outlet is securely plugged, and fill sump with RPZ for domestic water service.
15. Demolish slab at new shower locations - See Plumbing drawings.
16. Demolish slab to allow for installation of washer/extractor footing - See new work plans for size and location of footing.

Legend:
- Light solid lines indicate existing construction to remain.
- Heavy dashed lines indicate items to be demolished or salvaged.

Note:
- See Roof Plan sheet A1.2 and Elevation sheet A2.0 for additional info.
- See item number in Demolition Key Notes.
- See Mechanical drawings.
- See Electrical drawings.
- See Floor Plan on sheet A1.0 for extents.
- See RCP drawing.
1. Provide 4" thick depressed slab at showers, provide vapor barrier below new slab, seal perimeter with Owner.

2. Existing TV mount to remain.

3. Provide wood blocking behind existing wall to receive TV & mount, N.I.C.

4. Provide metal panels and insulation to patch existing opening.

5. Turnout Gear Rack N.I.C.

6. Ambient PPE Dryer N.I.C.

7. Existing ambient temperature heating/cooling system.

8. 2. Provide 4" thick depressed slab at showers, provide vapor barrier below new slab, seal perimeter with Owner.

9. Provide 6" stud wall at new MDP - See 8-A2.0 Coordination Drawings.

10. Reinforce existing structure with rod bracing - indicated on 8-A1.0 Floor Plan.

11. Existing high pressure natural gas meter.

12. Use #4 Rebar @ 12" O.C. each way at top and bottom of shear wall; Light gauge structural stud wall U.N.O. with fire-rated plywood sheathing; see wall section 2-A3.0. Stud thickness 3-5/8" U.N.O. 2-Hour Fire Barrier; C-T shaftwall stud wall extends to underside of roof, GWB stops 12" above ceiling; see wall section 3-A3.1 and Structural drawings. Stud thickness 4" U.N.O.

13. Existing concrete slab.

14. Current flow of water:

   - 65" TV
   - 6'-8" CJ
   - 5" 7'-2" 6'-3" 13'-10 1/2"
   - 12'-8" 6'-0"

15. Provide 44" x 37" concrete footing at indicated location with Owner.

16. Provide new insulation and metal wall panels.

17. Provide wood blocking behind existing wall to receive TV & mount, N.I.C.

18. Provide metal panels and insulation to patch existing opening.

19. Provide new insulation and metal wall panels.

20. Provide 6" stud wall at new MDP - See 8-A2.0 Coordination Drawings.

21. Reinstall salvaged white board, mount with top of existing 60"x60" mirror to remain.

22. Reinstall salvaged 60"x60" mirror, mount at height to room.

23. Provide 5'-2" wide slab at door 100B, existing adjacent concrete paving.

24. Provide 44" x 37" concrete footing at indicated location with Owner.

25. Slope to existing concrete paving, & existing concrete pad at flagpole, thicken edge of walk and slab at door 100A, existing adjacent concrete paving.

26. Existing 60"x60" mirror to remain.

27. Turnout Gear Rack N.I.C.

28. 3500 PSI concrete footing.

29. Compressed fill.

30. Light solid lines indicate existing construction.

31. Light dashed lines indicate items not included in section 3-A3.1 and Structural drawings. Stud thickness 3-5/8" U.N.O.

32. Metal wall panels at corner of building are not securely fastened to framing and extending to underside of roof, GWB stops 12" above ceiling; see wall section 3-A3.1 and Structural drawings. Stud thickness 4" U.N.O.

33. Provide wood blocking behind existing wall to receive TV & mount, N.I.C.

34. Provide metal panels and insulation to patch existing opening.

35. Provide new insulation and metal wall panels.

36. Provide new insulation and metal wall panels.

37. Provide metal panels and insulation to patch existing opening.

38. Provide wood blocking behind existing wall to receive TV & mount, N.I.C.

39. Provide metal panels and insulation to patch existing opening.

40. Provide new insulation and metal wall panels.
Aluminum cantilevered entrance canopy.

Open to structure, height varies.

Existing lighting to remain, U.N.O. - See Electrical drawings.

Existing New Suspended acoustical tile ceiling.

Existing New Gypsum board ceiling.

Light fixtures - See Electrical drawings.

HVAC Grilles & equipment - See Mechanical drawings.

Ceiling speakers, provided by Owner.

Roof insulation replacement; match type and thickness of existing roof insulation system - See Roof Plan on sheet A1.2.

Existing ACT ceiling to remain. Revise ACT ceiling to match existing Fitness Room layout.

Indicates Owner-provided camera, typical of (4) locations. Coordinate installation with Owner's vendor.

Wireless Access Point, provided by Owner - See Electrical drawings.

Indicates existing wall-mounted satellite dish, typical of (2) locations - See Electrical drawings for connections.

Indicates area to provide retrofit insulation system at roof structure and exterior walls, nominal 8" fiberglass insulation, R-25.

North

ATTACHMENT I

Reflected Ceiling Plan
Demolish existing roof panels, salvage board insulation for reinstallation under new roof panels. Provide new roof panels, continuous from ridge to eave. Panel profile & finish to match existing.

Provide new continuous insulation to match existing system. See Detail 3 on this sheet.

Demolish existing insulation to joint indicated, and provide new continuous insulation to match existing system: (2) layers of 2" polyiso board insulation; at bottom layer, provide boards with Class A facing, and insulation system manufacturer’s recommended trim at joints of insulation boards.

Demolish existing temporary roof covering.

Structural enhancements required in this roof area. See Structural drawings.

No roofing work in this area U.N.O.

Provide concrete splash block at this downspout.

Provide new sculptured hang-on gutter, profile to match existing, 5-1/4x4" downspouts – See drawing A1.0 for downspout locations.

Gutter expansion joint - Break gutters at expansion joint and provide end caps at the end of each run. Maintain 1/4" clearance between end caps. To direct all water into gutters, cover expansion joint with metal trim secured to one end cap.

Aluminum cantilevered entrance canopy.

Demolish existing VTR – See Plumbing drawings.

Patch roof penetrations.

Existing vehicle exhaust system stack to be abandoned, connect power ventilator to exhaust through existing stack – See Mechanical drawings.

Vehicle exhaust system stack by others. Coordinate work with Owner’s installer.

Existing heater vents to remain.

Heavy dashed lines indicate new purlins – See Structural drawings.

Light, dashed lines indicate nominal locations of existing purlins to remain – field verify.

Note: Check existing fastener patterns on all wall and roof panels, and provide fasteners where panels are not secured to structural members and at perimeter conditions. Scope also includes upgrading fastening pattern at wall and roof panels – See Structural drawings.

Demolish damaged section of rake trim, provide new trim to match existing.

Notes:
- Provide inside closure and tape sealer detail at eaves of all new and existing roof areas, except in areas indicated to receive no roofing work.
- Where screws are removed to provide access for installation of closure detail, provide new screws with sealing washers.

Heavy solid lines at eaves indicate extents of eave closure and sealant per detail 2/A1.2, typical at new and existing roof areas, U.N.O.

Provide VTR – See Plumbing drawings. Seal penetration with EPDM boot installed per manufacturer recommendations. Locate penetration and boot on flat portion of metal roof panel, avoid panel ribs.

Demolish VTR and provide new VTR at same location as existing roof penetration. – See Plumbing drawings. Seal penetration with EPDM boot installed per manufacturer recommendations.

Existing VTR to remain, demolish existing boot and provide new EPDM boot installed per manufacturer recommendations. – See Plumbing drawings.

See Structural drawings for work at gable end wall above roof.

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Revisions:

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Selectively demolish brick masonry, metal wall panels and insulation, entrance canopy, canopy gutters and downspouts. Columns, wall girts, eave struts, and other structure to remain. Provide new insulation and touch up paint on damaged areas - See Structural drawings for work at gable end wall.

Demolish existing brick masonry veneer and roof over existing opening of 12x12' overhead door. Provide concrete splash block at this downspout - See Roof Plan drawing A1.2.

Metal wall panel at this corner of the building is not secured to structural members and at perimeter roof panels, and provide fasteners where panels are not secured to structural members and at perimeter roof panels. Provide concrete splash block at this downspout - See Structural drawings.

Demolish existing window and door, and close openings. Provide new metal wall panels underneath new storefront. New metal wall panels underneath new storefront.

Demolish existing window and door, and close openings. Provide new metal wall panels underneath new storefront. New metal wall panels underneath new storefront.

New storefront framing and glazing.

Exhaust vent wall caps for ERV - See Mechanical drawings.

No work at this wall, U.N.O.

Use other door.

No work at existing roof or walls U.N.O.

Provide concrete splash block at this downspout - See Roof Plan drawing A1.2.

Aluminum Canopy.

Aluminum Canopy.

Aluminum Gutter Beam.

Aluminum Fascia.

Demolish wall cap for exhaust vent, and patch wall. Wall cap for dryer vent - See Mechanical drawings.

Aluminum column.

Metal wall panel at this corner of the building is not secured to structural members and at perimeter roof panels, and provide fasteners where panels are not secured to structural members and at perimeter roof panels. Provide concrete splash block at this downspout - See Structural drawings.

Demolish light frame. - See Electrical drawings.

Coordinate installation with Owner's vendor.

Sealed openings in masonry entrance, and fasten as indicated on drawings. Provide concrete splash block at this downspout - See Structural drawings.

Demolish light frame. - See Electrical drawings.

Coordinate installation with Owner's vendor.

Sealed opening in masonry entrance, and fasten as indicated on drawings. Provide concrete splash block at this downspout - See Structural drawings.

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Demolish light frame. - See Electrical drawings.

Coordinate installation with Owner's vendor.

Sealed opening in masonry entrance, and fasten as indicated on drawings. Provide concrete splash block at this downspout - See Structural drawings.
METAL WALL PANELS.
EXISTING METAL PANEL; CUT TO ALLOW FOR NEW OPENINGS - SEE BUILDING ELEVATIONS ON SHEET A2.0.

1/2" FIRE-RATED PLYWOOD EXTENDS TO UNDERSIDE OF ROOF.
5/8" GWB STOPS 1'-0" ABOVE CEILING.

3 5/8" STRUCTURAL STUDS U.N.O. - SEE STRUCTURAL DRAWINGS.
SUSPENDED ACT.

BRACE TOP OF WALL TO STRUCTURE PER STUD MANUFACTURER'S RECOMMENDATIONS.

HM DOOR & FRAME.
ALUMINUM CANOPY.

2" POLYISO. CONTINUOUS INSULATION, R-13.
RETROFIT INSULATION SYSTEM - NOMINAL 8" FIBERGLASS INSULATION, R-25. PROVIDE SYSTEM AT ROOF AND EXTERIOR WALLS TO EXTENTS SHOWN ON SHEET A1.1.

EXISTING RAKE TRIM.
EXISTING TRIM.
OUTSIDE CLOSURE.

(2) LAYERS OF 2" POLYISO BOARD CONTINUOUS ROOF INSULATION, R-26 - SEE ROOF PLAN FOR EXTENTS.

CONCRETE FOOTINGS AT CANOPY COLUMNS. CONCRETE WALK.
Canopy Detail

Scale: 3" = 1'-0"

NEW METAL PANEL TO MATCH ADJACENT EXISTING METAL PANEL; LAP NEW MATERIALS INTO EXISTING TO MAINTAIN CONTINUITY OF BUILDING ENVELOPE AND SHED WATER TO BUILDING EXTERIOR.

5/8" GWB.

SHOP FABRICATE HEAD TRIM FROM 22 GA. PRE-FINISHED GALVALUME, HEM EXPOSED EDGE.

HOLLOW METAL DOOR & FRAME.

3 5/8" METAL STUDS @ 16" O.C.

"C" GIRT BY METAL BUILDING MANUFACTURER.

2" POLYISO. INSULATION, R-13.

INSIDE CLOSURE.

CAP TRIM.

STEEL CHANNEL ANCHOR.

SEALANT.

RETURN 5/8" GWB INTO WINDOW OPENING, MAINTAIN 1/4" CLEARANCE FROM STOREFRONT & PROVIDE TEAR-AWAY BEAD, TYP.

3x3 LIGHT GAUGE ANGLE.

NEW METAL PANEL TO MATCH ADJACENT EXISTING METAL PANEL; LAP NEW MATERIALS INTO EXISTING TO MAINTINUITY OF BUILDING ENVELOPE AND SHED WATER TO BUILDING EXTERIOR.

5/8" GWB.

3 5/8" METAL STUDS @ 16" O.C.

2" POLYISO. INSULATION, R-13.

METAL FLASHING BY METAL BUILDING MANUFACTURER, TOP EDGE DIE-FORMED TO MATCH WALL PANEL PROFILE.

FASCIA TIE BACK STRAP, AS REQUIRED.

6" FASCIA.

EXTRUDED ALUMINUM DECK.

SEALANT TAPE.

ALUMINUM CANOPY BEAM.

ALUMINUM CANOPY COLUMN.

RETROFIT INSULATION SYSTEM - NOMINAL 8" FIBERGLASS INSULATION, R-25.

RETROFIT INSULATION SYSTEM - NOMINAL 8" FIBERGLASS INSULATION, R-25.
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**Remarks:**
- Final Room Names to be determined at a later date.
- Provide ADA signage at all doors to restrooms.
- See details 1-5/A6.0 for sign info.

**Signage Notes:**
- Minimum net clear opening width of 20 inches
- Minimum net clear opening height of 24 inches

**Note:**
- Windows are required for egress. Verify that submitted windows meet the following code requirements:
- Minimum net clear opening width of 20 inches
- Minimum net clear opening height of 24 inches

**Door Type 'A':**
- Door Frame 'A'
- Door Frame 'B'
- Door Frame 'C'
- Door Frame 'D'

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**Door & Window Elevations & Schedules**

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**Coastline Engineering, LLC**

Hurricane Florence Repairs
New Hanover County
Fire Station 12
3805 US-421
Wilmington, NC

Coordination Drawings
1 May, 2020

Revisions:
- A6.0
- Door & Window Schedules
3/4" DOOR WITH HPL ON ALL EXPOSED EDGES AND FACES, TYP.
WIRE PULLS.

SOLID SURFACE COUNTERTOP & BACKSPLASH; TYP.
ALT BID G-1: QUARTZ COUNTERTOP & BACKSPLASH.

PROVIDE (2) COUNTERTOP GROMMET; LOCATIONS TBD.

RUBBER BASE.
WIRE PULLS.

DOOR.

3/4" DOOR WITH HPL ON ALL EXPOSED EDGES AND FACES.

SOLID SURFACE COUNTERTOP & BACKSPLASH; TYP.
ALT BID G-1: QUARTZ COUNTERTOP & BACKSPLASH.

PROVIDE WOOD BLOCKING AT CASEWORK FASTENING POINTS, TYPICAL.

PROVIDE WOOD BLOCKING AT MONITOR MOUNTS, TYPICAL. COORDINATE MOUNT LOCATIONS WITH OWNER.

MONITOR & MOUNT, N.I.C.

RUBBER BASE.
WIRE PULLS.

DOOR.

PROVIDE WOOD BLOCKING AT CASEWORK FASTENING POINTS, TYPICAL.

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MONITOR & MOUNT, N.I.C.

RUBBER BASE.
WIRE PULLS.

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Electrical Specifications - Continued

In accordance with the above, each and every part of the electrical system shall be installed in accordance with the National Electrical Code, 2005 edition, and all applicable local codes.

ATTACHMENT I

[Company Logo]

Hurricane Florence Repairs
New Hanover County
Fire Station 12
3805 US-421
Wilmington, NC

Revisions:

Electrical Specifications

E0.2.1

3 of 10
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[Signature]
[Date] 23 April 2018
New Hanover County Telecommunications Cabling Guidelines

PLANNING:

This document has been prepared by New Hanover County staff with the specific purpose of setting standards for structured cabling plants in support of local area networks and voice connectivity that will function as follows:

- Accommodate the functional requirements of present and future information services.
- Support a cost-effective and multi-voice environment.
- Facilitate the planning and maintenance of cabling systems that will support the design communication needs of Inland Empire.
- Provide adequate means for connecting voice and data wiring infrastructure in all phases of construction.

The primary objectives of this document are to define the standards for material, installation, design, cabling, and termination, with specific regard to structured cabling plant systems for buildings and facades.

The scope of work for the telecommunications cabling contractor shall be to furnish, install, terminate, test, and a complete set of cabling materials necessary in the building's telecommunications infrastructure. The project shall be coordinated with the building's architectural, design, and construction activities.

The contractor shall be responsible for the complete job, including all materials and labor to furnish, install, terminate, and test all the elements of the telecommunications cabling plant system.

TYPICAL STRUCTURED CABLE SYSTEMS INCLUDE THE FOLLOWING ELEMENTS:

- Universal Cables:
  - Horizontal: Voice/CAT5
  - Vertical: 4-pair
  - Feed (Option)
  - Branch (Option)
  - Distribution (Option)
- Interconnect Cables:
  - Main Distribution Frame (MDM)
  - Sub-Distribution Frame (Sub)
  - Equipment Room Cables
- Interconnection Cables:
  - Horizontal (Option)
  - Backbone (Option)
-ake (Option)

OBJECTIVES:

The objectives of this recommendation are to provide a comprehensive, cost-effective structured cabling plant system for the New Hanover County government buildings and facilities to meet the increasing demands for information technology services.

This document shall be used as the basis for all future cabling design and installation, providing guidelines for the selection of cabling systems, installation practices, and testing procedures. The document shall reflect the needs of the current and future requirements of the County's information technology needs.

The document includes standards for the materials, installation, and testing of telecommunications cabling systems, as well as guidelines for the management of these systems.

The scope of work for the telecommunications cabling contractor shall be to furnish, install, terminate, test, and a complete set of cabling materials necessary in the building's telecommunications infrastructure. The project shall be coordinated with the building's architectural, design, and construction activities.

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This document shall be used as the basis for all future cabling design and installation, providing guidelines for the selection of cabling systems, installation practices, and testing procedures. The document shall reflect the needs of the current and future requirements of the County's information technology needs.

The scope of work for the telecommunications cabling contractor shall be to furnish, install, terminate, test, and a complete set of cabling materials necessary in the building's telecommunications infrastructure. The project shall be coordinated with the building's architectural, design, and construction activities.

The contractor shall be responsible for the complete job, including all materials and labor to furnish, install, terminate, and test all the elements of the telecommunications cabling plant system.

TYPICAL STRUCTURED CABLE SYSTEMS INCLUDE THE FOLLOWING ELEMENTS:

- Universal Cables:
  - Horizontal: Voice/CAT5
  - Vertical: 4-pair
  - Feed (Option)
  - Branch (Option)
  - Distribution (Option)
- Interconnect Cables:
  - Main Distribution Frame (MDM)
  - Sub-Distribution Frame (Sub)
  - Equipment Room Cables
- Interconnection Cables:
  - Horizontal (Option)
  - Backbone (Option)
-ake (Option)

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