GENERAL NOTES

1. This project is to be constructed in accordance with the Delaware Department of Transportation “Standard
   Specifications”, dated August 2016, and the Delaware Department of Transportation “Standard Construction
   Details”, dated 2016, including all revisions up to the date of advertisement.

2. Electronic project files that will be made available to the awarded contractor, include:

   I. Align data files with coordinates and elevations for proposed points as selected by the engineer.
   II. All main sheets, in .dgn format.
   III. Existing digital terrain model, in .srf file format, compatible with software currently used by designer.
   IV. Proposed digital terrain model, in .srf file format, compatible with software currently used by designer.
   V. Design files, in .dgn file format, containing only the proposed 3D triangles of the proposed digital
      terrain model.

3. Project files that will be made available to the contractor, include:

   I. Survey data
   II. Right-of-way plans

NOTES

SECTION 100

1. Any damage to items noted to be relocated or removed by the contractor, at the discretion of the engineer, shall be repaired and/or replaced in and at the contractor’s expense.

2. The contractor shall contact the Delaware TMC at 302-659-4600 prior to any unmanned aircraft vehicle (UAV)
   flights. The contractor will be required to provide the following information: the registration number of the
   UAV, the flight time, location of the flight, the flight’s name and the flight’s contact number during the flight.

SECTION 200

3. Items to be removed under Item 211000 - Removal of Structures and Obstructions shall include, but not be
   limited to the following:
   - Fences
   - Concrete pads
   - Abandoned fiber optic pathway and junction wells
   - Cold patch storage shed

SECTION 600

4. Station and elevation data from existing structures are to be applied to the center of the grate
   for inlets and to the center of the structure for junction boxes and manholes.

SECTION 700

5. All paved areas to be reconstructed or widened shall be sawcut at the point where the new pavement is to
   tie into the existing pavement.

SECTION 800

6. This project is covered under an optional general permit for construction under the general permit
   compliance with DelDOT’s approved Sediment and Stormwater Management Plans will constitute compliance
   with the Delaware Pollution Prevention Requirements for this Construction Project. A copy of the project’s general
   permit and also key on file in each of the construction offices and the department’s team support section.
   A copy of the general permit or the record is required upon request from either the department’s
   stormwater engineer or the appropriate construction engineer.

MISCELLANEOUS

7. There are no environmental permits associated with this project as such an Environmental Compliance Sheet
   was not prepared.
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1. Work in 5' squares, make all efforts to have sidewalk joints match curb joints.
2. Construct sidewalk at grade. Slope sidewalk away from building at 1.5% (min.) to 2% (max.) in order to assure positive drainage.

**NOTES:**

1. Concrete shall be Class B.
2. Construct sidewalk at grade. Slope sidewalk away from building at 1.5% (min.) to 2% (max.) in order to assure positive drainage.

**SLOPE TO GRADE**

- 8" dia. conc. filled steel post w/ yellow plastic sleeve.
- 18" dia. conc.
- DE No. 57 stone

**NOTE:**
Concrete shall be Class B.

**CONCRETE SIDEWALK DETAIL**

- 10'-0" 8'-0" 6'-0" 4'-0"
- Blue/white accessibility strawe
- 5' rise blue paint stripe (Typ.) per Item 817013.
- 5' rise white paint stripe (Typ.) per Item 817013.
- 6" concrete hose stop (Typ.) per Item 817013.

**ROLLARD DETAIL**

- 1'-6" 2'-0" 3'-0" 4'-0"
- Blue/white accessibility strawe
- 6" wide blue paint stripe (Typ.) per Item 817013.

**PARKING LAYOUT**

- Parking spaces to be installed in front of all curbed parking spaces.

**CONCRETE CURB**

- P.C.C. curb, type 1-8 (705002)
- 4" P.C.C. sidewalk (706002)
- Compacted, base course, type B
- Compact, mold, proctor density

**NOTE:**
- Base course, type B
- 4" graded aggregate
- Paved area

**DETROIT STONE MULCH**

- AT fire hydrant
- P.C.C. curb, type 1-8 (705002)
- Curb ramp type 2

**SIDEWALK**

- N.T.S.
- 4" P.C.C. sidewalk (706002)
- 5" wide blue paint stripe (Typ.) per Item 817013.
- Blue/white accessibility symbol

**CONCRETE CURB, TYPE 1-8**

- 12:1 max
- 2% max

**PARKING BLOCKS**

- All curbed parking spaces

**PARKING LAYOUT**

- Proposed building
- Decorative stone mulch
- 12" x 6" landing

**SIDEWALK, TYPE 1-8**

- 12:1 max
- 2% max

**NOTE:**
- Landings
- 5'x5'

**DETECTABLE WARNING SYSTEM**

- 3' x 3'
- Plastic sleeve
- Steel post with yellow

**BASE COURSE**

- Type B
- Graded aggregate

**UNOFFICIAL WEBSITE COPY**

---

**NOT TO SCALE**

**NORTH DISTRICT CREW QUARTERS AND SITE WORK, PHASE 1A**

---

**UNOFFICIAL WEBSITE COPY**
PAVING SECTION 'A'

8" GRADED AGGREGATE

COMPACTED SUBGRADE

DENSITY ASTM 01557)

(95% MOD. PROCTOR)

PAVING SECTION 'B'

BASE COURSE, TYPE B (301003)

8" GRADED AGGREGATE

COMPACTED SUBGRADE

DENSITY ASTM 01557)

(95% MOD. PROCTOR)

PAVING SECTION 'C'

BASE COURSE, TYPE B (301003)

8" GRADED AGGREGATE

COMPACTED SUBGRADE

DENSITY ASTM 01557)

(95% MOD. PROCTOR)

PAVING SECTION 'D'

BASE COURSE, TYPE B (301003)

8" GRADED AGGREGATE

COMPACTED SUBGRADE

DENSITY ASTM 01557)

(95% MOD. PROCTOR)

NOTE: GRATE INLET SKIMMER BOX TO BE INSTALLED AFTER FINAL STABILIZATION OF ALL DISTURBED AREAS.

TRIPLE-STACK COMPOST FILTER LOG DETAIL

NOTE:
1. ALL MATERIAL WILL MEET DNREC SPECIFICATIONS.
2. SEDIMENT SHOULD BE REMOVED FROM BEHIND THE CHECK DAM ONCE THE ACCUMULATED HEIGHT HAS REACHED 36" THE HEIGHT OF THE CHECK DAM.

LEVEL SPREADER DETAIL

NOTE: COMPACTED SUBGRADE

N.T.S.

DENSITY ASTM 01557)

(95% MOD. PROCTOR)
The installation of any sanitary service laterals proposed to connect buildings to the sanitary sewer collection system cannot be commenced apart from issuance of a plumbing permit from the New Castle County Department of Land Use. This work must be performed by a licensed plumber. The following link will take you to the permit application form:

https://www.nccde.org/DocumentCenter/View/480/Plumbing-Permit-Application-PDF

Application form:

The installation of any sanitary service laterals proposed to connect buildings to the sanitary sewer collection system cannot be commenced apart from issuance of a plumbing permit from the New Castle County Department of Land Use. This work must be performed by a licensed plumber. The following link will take you to the permit application form:
NOT TO SCALE

PIPE DIAMETER

TRENCH WIDTH

PAVING WIDTH

FINISHED BITUMINOUS SURFACE

EXISTING BITUMINOUS SURFACE

EXISTING BASE COURSE (DEPTH VARIES)

EXISTING BASE GRADE

SAWCUT (TYP.)

NOTES

1. BACKFILL MATERIAL PRIOR TO PIPE INSTALLATION, CAREFULLY EXCAVATE TO GUIDE ALONG THE ENTIRE LENGTH OF PIPE TO BE INSTALLED. CAREFULLY WORK BACKFILL MATERIAL TO SPRING LINE OF THE PIPE. BACKFILL MATERIAL REQUIRED SHALL BE INCIDENTAL TO THE WATER MAIN PIPE ITEM.

2. BACKFILL MATERIAL MAY BE MECHANICALLY PLACED AND SHALL BE COMPACTED IN 8" LIFTS AFTER PIPE IS COVERED 6".

3. WHERE TWO TIER SHEETING IS AUTHORIZED BY THE ENGINEER, ALL WIDTHS SHOWN ON TRENCH PAVEMENT WIDTH TABLE SHALL BE INCREASED BY 3 FEET.

4. PROVIDE CONTINUOUS BEARING FOR FULL LENGTH OF PIPE.

WATER PIPE TRENCH BEDDING DETAIL

NOT TO SCALE

VERTICAL REALIGNMENT

NOTES

1. DIAMETER OF WATER MAIN TO BE LOWERED OR RAISED VARIES.

2. TO RAISE WATER MAIN USE INVERSE OR MIRROR IMAGE OF VERTICAL REALIGNMENT.

3. PIPE DIAMETER 12" OR SMALLER USE (2) 3/4" THREADED TIE RODS 180° APART.

4. REMOVE EXISTING WATER MAIN AS NECESSARY

COATING IN ACCORDANCE WITH CITY OF NEWARK SPECIFICATIONS.

2. COAT BARS AND APPURTENANCES WITH FIELD-APPLIED COATING IN ACCORDANCE WITH CITY OF NEWARK SPECIFICATIONS.

1. USE MECHANICAL JOINT FITTINGS ONLY.

METHOD OF STRAPPING VALVE TO MAIN

NOT TO SCALE
1. **Concreting Joints and Control Joints**: Joints may be introduced to suit concrete pour schedule.

2. A 10" bearing capacity of 2000 psf is used in the foundation design and must be verified by a registered professional engineer.

3. **Location of Control Joints**: The exact position of control joints shall be established by the architect. Joints shall be spaced to ensure that the joints occur over the cut edge of the slab.

4. **Sawing of Joints**: The preferred method for sawing control joints is with the "cold-cut" saw within one hour of finishing concrete.

5. **Reinforcement**: Concrete forms shall be placed around the saw cut joint and the control joint. The reinforcement made in the proper interval including, but not limited to, lighting, fire sprinkler, lighting, etc.

6. **All Fill Under Slab**: The fill under the slab shall be compacted 3 inches. Exception: for concrete cast against the ground.

7. **Welded Wire Fabric**: Welded wire fabric is to be per ASTM 185.

8. **Slab Control Joints**: Slab control joints shall be placed such that the joint is over the cut edge of the slab. Joint locations shall be set 3 inches from the ground edge. The joints shall be cut as soon as joint locations are established.

9. **Exposure to Weather**: All concrete exposed to the weather shall have an air entraining admixture of at least 0.6% to prevent dislocating aggregate.

10. **Maximum Slump**: The maximum slump of all concrete shall be 7 inches. No admixtures containing calcium chloride shall have an air entraining admixture of at least 0.6% to prevent dislocating aggregate.

11. **Concrete Features**: Concrete has cured enough to prevent placement. Joints shall be cut as soon as concrete can be removed. Joint locations shall be set 3 inches from the ground edge. Joint locations shall be established by the architect.

12. **Concrete Strength**: Concrete placement and finishing shall be done in accordance with DelDOT recommendations for placing and finishing of concrete. Follow DelDOT recommendations for placing concrete in cold or hot weather.

13. **Concrete Placement**: Concrete shall be cured for a minimum of 7 days before imposing loads.

14. **Concrete Placement**: Concrete shall be cured for a minimum of 7 days before imposing loads.

15. **Concrete Placement**: Concrete shall be cured for a minimum of 7 days before imposing loads.

16. **Concrete Placement**: Concrete shall be cured for a minimum of 7 days before imposing loads.

17. **Concrete Placement**: Concrete shall be cured for a minimum of 7 days before imposing loads.

18. **Concrete Placement**: Concrete shall be cured for a minimum of 7 days before imposing loads.

19. **Concrete Placement**: Concrete shall be cured for a minimum of 7 days before imposing loads.

20. **Concrete Placement**: Concrete shall be cured for a minimum of 7 days before imposing loads.

21. **Concrete Placement**: Concrete shall be cured for a minimum of 7 days before imposing loads.
**SEQUENCE OF CONSTRUCTION FOR BIOTRETENTION AREA**

The bioretention area shall function as a sediment basin during construction and payment shall be incidental to bioretention items.

1. Clear and grub area for bioretention area construction, install perimeter controls.
2. Excavate as needed to install bioretention outlet structure, temporarily plug low flow underdrain structure.
3. Excavate remaining bioretention area to an elevation of 70.00'.

**CONVERSION TO PERMANENT BIOTRETENTION AREA**

Convert the bioretention area after all areas draining to the facility are at final grade and stabilized and with concurrence from DelDOT's Stormwater Engineer. Absolutely no heavy equipment shall be in the actual bioretention footprint once the conversion process has started. All excavation shall be from the side.

1. Construct temporary to lines, grades and details as shown on the stormwater plans and stabilize immediately after construction. Capped area marks as needed in accordance with Section 900 of the Standard Specifications.
2. Excavate the bioretention area to the dimensions as shown on the plans and prepare the bottom.
3. Install underdrain and No. 8 infiltration stone as shown on plans.
4. Barkfill, biosoil mix and mulch to the lines as shown on the plans.
5. E&S devices shall be removed after final vegetation stabilization of all disturbed areas and with concurrence from DelDOT's Stormwater Engineer.

**NOTES:**

1. The Contractor shall inspect the bioretention area immediately after every rain event and make repairs as necessary.
2. The bioretention area shall be maintained with biosoil mix shall receive 6" topsoil (item 90011) and permanent seeding, stormwater facility facilities. Side slopes shall receive erosion control blanket mulch (item 90020).
3. Outfall ditch shall receive 6" topsoil (item 90011) and permanent seeding, stormwater facility (item 90015). Side slopes shall receive erosion control blanket mulch (item 90020).
4. biosoil mix and mulch to the lines and grades as shown on the plans.
5. Biosoil mix and mulch to the lines as shown on the plans.
6. The conversion process has started. All excavation shall be from the side.
7. Absolutely no heavy equipment shall be in the actual bioretention footprint once the conversion process has started.
8. All excavation shall be from the side.
9. Capped area marks as needed in accordance with Section 900 of the Standard Specifications.
3. SEE SHEET SW-03 FOR WET POND PROFILE, SECTIONS, AND SEQUENCE OF CONSTRUCTION.
CONVERSION TO PERMANENT STORMWATER MANAGEMENT POND:

1. CONVERT THE BASIN INTO THE PERMANENT STORMWATER MANAGEMENT POND AFTER ALL AREAS DRAINING TO THE POND HAVE BEEN PERMANENTLY STABILIZED AND WITH CONCURRENCE FROM DELDOT’S STORMWATER ENGINEER.

MAINTENANCE OF POND AS SEDIMENT BASIN:

1. CONTRACTOR SHALL INSPECT THE BASIN IMMEDIATELY AFTER EVERY RAIN AND MAKE REPAIRS AS NEEDED.
2. CLEAR AND GRADE FOR INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS.
3. CLEAR AND GRADE FOR INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS AS SHOWN IN CONSTRUCTION PHASING SHEETS.
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6. CLEAR AND GRADE FOR INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS.
7. CLEAR AND GRADE FOR INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS.

NOTES:

1. EROSION CONTROL BLANKET MULCH (ITEM 908020).
2. E&S DEVICES SHALL BE REMOVED AFTER FINAL VEGETATIVE STABILIZATION OF ALL DISTURBED AREAS AND WITH CONCURRENCE FROM DELDOT’S STORMWATER ENGINEER.
3. CONTRACTOR SHALL INSPECT THE BASIN IMMEDIATELY AFTER EVERY RAIN AND MAKE REPAIRS AS NEEDED.
4. CLEAR AND GRADE FOR INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS.
5. CLEAR AND GRADE FOR INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS.
6. CLEAR AND GRADE FOR INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS.
7. CLEAR AND GRADE FOR INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS.
### UNOFFICIAL

#### WATER MAIN SCHEDULE

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**NOTES:**
1. Water main tracer tapes to be installed by the contractor. The tracer tape shall be a minimum of 3" wide and blue in color. The tracer tape will be made from bonding later plastic with a metallic core and be certified to identify the water line.
2. Contractor shall core, existing manhole and modify existing flow channel to allow for proposed 30'x12' concrete footer area, in accordance with other.
3. Proposed sanitary sewer lateral shall be owned and operated by the State of Delaware.

#### WATER ACCESSORIES SCHEDULE

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**SUEZ WATER WILL COMPLETE THE TAPPING OF THE 12" MAIN AND WILL INSTALL THE 6" GATE VALVE AND 3" CURB STOP. CONTACT TERRI BLUM AT (302) 252-502 TO INQUIRE NEW SERVICES.**
FINISH PLAN

ROOM FINISH SCHEDULE

ROOM NO. | ROOM NAME | FLOOR | WALLS | CASEWORK | CEILING | BASE | NORTH | SOUTH | EAST | WEST | FINISH | REMARKS
---|---|---|---|---|---|---|---|---|---|---|---|---
100 | LOBBY | CT-1 | CT | CT | CT | CT | ACT | TILE FLOORING | EXTENDS UNDER CASEWORK
101 | CREW LEADER ROOM | CT-1 | RB | PTD | PTD | PTD | PTD | ACT | TILE FLOORING | EXTENDS UNDER CASEWORK
102 | ASSISTANT SUPERVISOR | CPT-1 | RB | PTD | PTD | PTD | PTD | ACT | TILE FLOORING
103 | CLOSET | CPT-1 | RB | PTD | PTD | PTD | PTD | GWB | TILE FLOORING
104 | SUPERVISOR OFFICE | CPT-1 | RB | PTD | PTD | PTD | PTD | ACT | TILE FLOORING
105 | CLOSET | CPT-1 | RB | PTD | PTD | PTD | PTD | GWB | TILE FLOORING
106 | TEL. RM. | VCT | RB | PTD | PTD | PTD | PTD | ACT | TILE FLOORING
107 | MECH./ELEC. | CONC-1 | RB | PTD | PTD | PTD | PTD | GWB | TILE FLOORING
108 | JAN. CLOSET | VCT | RB | PTD | PTD | PTD | PTD | GWB | TILE FLOORING
109 | MEN'S T.R. ENT. | CT-2 | CT | CT | CT | CT | CT | ACT | TILE FLOORING
110 | MEN'S TOILET ROOM | CT-2 | CT | CT | CT | CT | CT | ACT | TILE FLOORING
111 | SHOWER | CT-2 | CT | CT | CT | CT | CT | GWB | TILE FLOORING
112 | HALLWAY | CT-1 | CT | PTD | PTD | PTD | PTD | ACT | TILE FLOORING
113 | WOMENS BUNKS | CT-1 | CT | PTD | PTD | PTD | PTD | ACT | TILE FLOORING
114 | STORAGE | CONC-1 | RB | PTD | PTD | PTD | PTD | GWB | TILE FLOORING
115 | WOMEN'S T.R. | CT-2 | CT | CT | CT | CT | CT | ACT | TILE FLOORING
116 | SHOWER | CT-2 | CT | CT | CT | CT | CT | GWB | TILE FLOORING
117 | CREW OPERATIONS | CT-1 | CT | PTD | PTD | PTD | PTD | GWB | TILE FLOORING | EXTENDS UNDER LOCKERS

NOTES:
1. PROVIDE CONSTRUCTION JOINT IN TILE AS SHOWN IN DETAIL 2/A-104.
2. COORDINATE CJ LOCATIONS WITH STRUCTURAL PLANS. CONTRACTOR TO COORDINATE CJ LOCATIONS WITH FLOORING FINISH.
ASPHALT SHINGLES OVER 30# ROOF FELT
PREFINISHED METAL GUTTERS & DOWNSPOUTS, TYP.
1x6 FIBER CEMENT BOARD TRIM, TYP.
FIBER CEMENT LAP SIDING, W/ BEADED EDGE, TYP.
FIBERGLASS COLUMN COVER
FIBER CEMENT SKIRT BOARD

RIDGE VENT

TOP OF SLAB
0'-0" - 0'-0"

TOP OF PLATE
10'-0" - 0'-0"

DEPARTMENT CONNECTION

ADDENDUMS / REVISIONS
NEW CASTLE
T201880103

SHEET NO.
20180103

CONTRACT
COUNTY

DESIGNED BY:
CHECKED BY:

$DATE_USER$
N/A

JMT

Q:
NDE
151152_010_Chapman_Yard_-_Phase
CADD
Architecture
15-1152-010_Chapman Yard Phase I Crew Ops_PSE Set.rvt

EXTERIOR ELEVATIONS

UNOFFICIAL

WEBSITE

COPY
5/16" x 8 1/4" BEADED FIBER CEMENT LAP SIDING.
CONT. AIR INFILTRATION BARRIER W/ TAPED SEAMS ON 1/2" PLYWD. SHEATHING
3/4" x 6" (NOM.) FIBER CEMENT TRIM TYP.

* NOTE: 3/4" THICK TRIM OR 7/16" W/ SPACER
STEEL COLUMN, REF. STRUCT.

2X6 5/8" GWB

2X6 @ 16" O.C.

R21 BATT INSUL. W/ FOIL FACE ON INT. SIDE

1/2" PLYWD. SHEATHING

CONT. AIR FILTRATION BARRIER W/ TAPED SEAMS

FIBER CEMENT SIDING

3/4" x 6" (NOM.) FIBER CEMENT BD. TRIM - SEE NOTE *

MFRS. STD. BRICK MOULD

1/4" SHIM SEALANT

CORNER BEAD & SPACKLE. TYP.

FIBERGLASS WINDOW UNIT, SEE DWG. A-1.3

CONT. AIR INFILTRATION BARRIER W/ TAPED SEAMS

LAP OVER BRICK MOULD

5/16" x 8 1/4" BEADED FIBER CEMENT LAP SIDING TYP.

5/8" GWB SEALANT

1/2" PLYWD. SHEATHING

* NOTE: 3/4" THICK TRIM OR 7/16" W/ SPACER

6" x 6" WOOD POST

ELEV. 10'-0" A.F.F.

VINYL TOP SEAL

ALUM. TRACK POWDERCOAT PAINTED WHITE

HANGER BRACKET & .38" O X 7" LONG THREADED RODS BY OPERABLE WALL MFR.

OPERABLE WALL PANEL

ELEV. 9'-8" A.F.F.

STL. W BEAM - SEE STRUCT. DWGS.

WD. BLOCKING & CLG. FRAMING - SEE STRUCT. DWGS.

BULKHEAD: 2X4'S @ 16" O.C. W/ 5/8" GWB, TAPE & SPACKLE CORNERS

BRACING @ 16" O.C.

R-38 FIBER GLASS INSULATION. W/ VAPOR BARRIER FACE DOWN, TYP.

SOUND BAFFLE 3/4" 10"

1' - 2 1/2" TYP.

4" 6 5/8"

41

DETAIL - MFRS. STD. BRICK MOULD

1 DETAIL - TYP. EXT. COL.

3" = 1'-0" A-502

2 DETAIL - TYP. EXT. CORNER @ WINDOW

3" = 1'-0" A-502

3 SECTION DETAIL - HEAD @ OPERABLE WALL

4 DETAIL - ROOF @ PORCH OVERHANG

41

PHASE 1A CREW QUARTERS AND SITE WORK, NORTH DISTRICT

NEW CASTLE W. BEAM - SEE STRUCT. DWGS.

WD. BLOCKING & CLG. FRAMING - SEE STRUCT. DWGS.

BULKHEAD: 2X4'S @ 16" O.C. W/ 5/8" GWB, TAPE & SPACKLE CORNERS

BRACING @ 16" O.C.

R-38 FIBER GLASS INSULATION. W/ VAPOR BARRIER FACE DOWN, TYP.

SOUND BAFFLE 3/4" 10"

1' - 2 1/2" TYP.

4" 6 5/8"

41

DETAIL - MFRS. STD. BRICK MOULD

1 DETAIL - TYP. EXT. COL.

3" = 1'-0" A-502

2 DETAIL - TYP. EXT. CORNER @ WINDOW

3" = 1'-0" A-502

3 SECTION DETAIL - HEAD @ OPERABLE WALL

4 DETAIL - ROOF @ PORCH OVERHANG

41

PHASE 1A CREW QUARTERS AND SITE WORK, NORTH DISTRICT

NEW CASTLE W. BEAM - SEE STRUCT. DWGS.

WD. BLOCKING & CLG. FRAMING - SEE STRUCT. DWGS.

BULKHEAD: 2X4'S @ 16" O.C. W/ 5/8" GWB, TAPE & SPACKLE CORNERS

BRACING @ 16" O.C.

R-38 FIBER GLASS INSULATION. W/ VAPOR BARRIER FACE DOWN, TYP.

SOUND BAFFLE 3/4" 10"

1' - 2 1/2" TYP.

4" 6 5/8"

41

DETAIL - MFRS. STD. BRICK MOULD

1 DETAIL - TYP. EXT. COL.

3" = 1'-0" A-502

2 DETAIL - TYP. EXT. CORNER @ WINDOW

3" = 1'-0" A-502

3 SECTION DETAIL - HEAD @ OPERABLE WALL

4 DETAIL - ROOF @ PORCH OVERHANG

41

PHASE 1A CREW QUARTERS AND SITE WORK, NORTH DISTRICT

NEW CASTLE W. BEAM - SEE STRUCT. DWGS.

WD. BLOCKING & CLG. FRAMING - SEE STRUCT. DWGS.

BULKHEAD: 2X4'S @ 16" O.C. W/ 5/8" GWB, TAPE & SPACKLE CORNERS

BRACING @ 16" O.C.

R-38 FIBER GLASS INSULATION. W/ VAPOR BARRIER FACE DOWN, TYP.

SOUND BAFFLE 3/4" 10"

1' - 2 1/2" TYP.

4" 6 5/8"

41

DETAIL - MFRS. STD. BRICK MOULD

1 DETAIL - TYP. EXT. COL.

3" = 1'-0" A-502

2 DETAIL - TYP. EXT. CORNER @ WINDOW

3" = 1'-0" A-502

3 SECTION DETAIL - HEAD @ OPERABLE WALL

4 DETAIL - ROOF @ PORCH OVERHANG

41

PHASE 1A CREW QUARTERS AND SITE WORK, NORTH DISTRICT

NEW CASTLE W. BEAM - SEE STRUCT. DWGS.
## Special Inspections Schedules

### 1705.4 Schedules

<table>
<thead>
<tr>
<th>MATERIAL / ACTIVITY</th>
<th>APPLICABLE TO THIS PROJECT</th>
<th>SERVICE</th>
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### 1705.5.3 Concrete Construction

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### 1705.5.5 Wood Construction

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**Note:** The special inspections plan developed provides project compliance with the provisions of 1219.4.2 Exception to Code 1219.4.2 Special Inspections Schedule. The inspector's duties shall be performed by the owner or a designated agent. The inspections will be performed by an independent inspector who shall have the necessary knowledge, skill, and experience to perform the inspections. The inspections shall be performed in a timely manner and in accordance with the project schedule. The inspector shall report any non-compliance to the owner and the contractor. The contractor shall take corrective action as necessary. The owner shall keep a record of all special inspections and test reports for at least five years.
1. CONTRACTOR TO VERIFY ALL DIMENSIONS AND SITE CONDITIONS PRIOR TO STARTING WORK. IF ANY DISCREPANCIES ARE NOTED, CONTRACTOR SHALL NOTIFY ARCHITECT AND ENGINEER IMMEDIATELY.

2. DO NOT SCALE DRAWINGS. CONSULT ENGINEER FOR DIMENSIONS.

: DESIGNATES CONTROL JOINTS, COORDINATE JOINT LOCATIONS WITH ARCHITECTURAL FLOOR FINISHES

: DESIGNATES LOADBEARING WALL

UNOFFICIAL WEBSITE COPY
ROOF FRAMING PLAN NOTES

NOTE 1:
ROOF FRAMING SHALL BE APA RATED SHEATHING, EXPOSURE 1, MIN. 5/8" THICK. STAGGER JOINTS.

NOTE 2:
COORDINATE ROOF SLOPES & OVERHANG DETAILS WITH ARCHITECTURAL DRAWINGS.

INDICATES AREA TO BE OVERFRAMED.

ROOF SHEATHING SHALL BE APA RATED SHEATHING, EXPOSURE 1, MIN. 5/8" THICK. STAGGER JOINTS.

COORDINATE ROOF SLOPES & OVERHANG DETAILS WITH ARCHITECTURAL DRAWINGS.

INDICATES AREA TO BE OVERFRAMED.
NORTH DISTRICT
CREW QUARTERS AND SITE WORK,
PHASE 1A

SECTION THROUGH BUILDING

SECTION

ROOF PLAN

1/4" = 1'-0"S-301

SECTION EXTERIOR WALL

SECTION

ROOF PLAN

1/4" = 1'-0"S-301

1 SECTION THROUGH BUILDING

SECTION

ROOF PLAN

1/4" = 1'-0"S-301

2 SECTION THROUGH BUILDING

SECTION

ROOF PLAN

1/4" = 1'-0"S-301

3 TYPICAL EXTERIOR WALL SECTION

UNOFFICIAL WEBSITE COPY
1' - 6"
1' - 0"
SEE MECH. AND/OR ARCH. DRAWINGS FOR HOUSEKEEPING PAD LOCATIONS AND SIZES

1' - 0"
1' - 6"
1/4" WIDE x 1" DEEP SAWCUT. FILL WITH SEALANT

PREPARED SUBGRADE
PERIMETER STANDEES
ROUGHEN SURFACE
4" LAYER OF @ 36" o.c.
ADHESIVE
STOP REINF. 2" FROM JOINT
TYPICAL CONSTRUCTION JOINT DETAIL
NOTE:
6"
12"
X
X
X
X
X
X
X
X
X
X
X
X
X
X
X
X
X
X
X
1' - 0" S-501
1/2" EXP MAT.
10"
15/16"
SLOPE
1' - 0"
10"
1' - 6"
S. O. G.
STANDARD
SHEATHING
PRESSURE TREATED SILL PLATE.
SEE GENERAL NOTES
EXTERIOR WALL SHEATHING
INTERIOR WALL SHEATHING
7 3/4"
#5 @ 12" o.c.
(3) #4 CONT.
PEARL S. & G.
4" LAYER CRUSHED STONE OR GRAVEL
PLATE WASHER (1/4" x 2" SQ., MIN)
CONCRETE WASHER
LEVELING NUT
1/2"
1/2" = 1'-0" S-501
W1.4xW1.4 WWF
HEX NUT
1/2"
T/SLAB EL. 0'
0"

1' - 0"
1' - 6"
3/4" CHAMFER
DIRECTION OF POUR
1 1/2" THICK SLAB PERIMETER
1/4" THICK SLAB CENTER

1/2" = 1'-0" S-501
(3) #4 BARS
1 1/2" MAX DBL. DIA.
1 1/2" Exp. Mat.
(3) 3/4"Ø x 9" LONG ANCHOR BOLTS
1 1/2" Exp. Mat.
S. O. G.
STANDARD
SHEATHING
PRESSURE TREATED SILL PLATE.
SEE GENERAL NOTES
EXTERIOR WALL SHEATHING
INTERIOR WALL SHEATHING
7 1/2"
7 HSS COLUMN FOOTING DETAIL
(3) #5, EACH WAY

1/2" = 1'-0" S-501
(3) #4 CONT.
PEARL S. & G.
4" LAYER CRUSHED STONE OR GRAVEL
PLATE WASHER (1/4" x 2" SQ., MIN)
CONCRETE WASHER
LEVELING NUT
1/2"
1/2" = 1'-0" S-501
W1.4xW1.4 WWF
HEX NUT
1/2"
T/SLAB EL. 0'
0"

1' - 0"
1' - 6"
3"
3/4" = 1'-0" S-501
PLATE. SEE GENERAL NOTES
EXTERIOR WALL SHEATHING
INTERIOR WALL SHEATHING
7 3/4"
#5 @ 12" o.c.
(3) #4 CONT.
PROPOSED HOPPER RACKS (30)
(BY OTHERS)

PROPOSED CREW OPS

COLD PATCH STORAGE
(BY OTHERS)

PROPOSED TRUCK SHED
(BY OTHERS)

APPROXIMATE LOCATION OF MECHANICAL ROOM. REFER TO 1/M-401 FOR CONTINUATION.

GENERAL SHEET NOTES:
1. INFORMATION SHOWN ON THE DRAWINGS PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL EXISTING CONDITIONS IN DETAIL OR DIMENSION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK.
2. DRAWING SHEET NOTES AND HANDWRITTEN MODIFICATIONS SHOWN HEREIN ARE MEANT TO BE CONSIDERED AS GUIDELINES FOR THE WORK.
3. DO NOT LOCATE PIPING WITHIN DEDICATED ELECTRICAL SPACE ABOVE ELECTRICAL PANELS OR EQUIPMENT. REFER TO SHEET M-001 FOR MECHANICAL LEGEND AND GENERAL NOTES.

WARNING:
1. 1" GEOTHERMAL LOOP PIPING UNDERGROUND TO MECHANICAL ROOM. SEE DWG. M-401 OR CONTINUATION.
2. PROVIDE TWO GEOTHERMAL CIRCUITS WITH THREE WELLS PER CIRCUIT. EACH WELL SHALL BE LOCATED 20' FROM ADJACENT WELLS AND BE 300' DEEP. SEE DWG. M-501 FOR ADDITIONAL WELL DETAILS.
INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL EXISTING CONDITIONS IN DETAIL OR DIMENSION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.

UNLESS OTHERWISE NOTED, MECHANICAL/PLUMBING ITEMS SHOWN HEAVY SOLID ( ) SHALL BE NEW WORK AND MECHANICAL/PLUMBING ITEMS SHOWN LIGHT SOLID ( ) SHALL BE EXISTING. Do not locate piping within dedicated electrical space above electrical panels or equipment. Refer to sheet M-001 for mechanical legend and general notes.

General Sheet Notes:
1. Provide acoustic duct lining for first 15'-0" on supply and return ductwork from units. Inner duct dimensions shall match duct sizes as shown on drawings M101 and M-401.
2. Install inline fan EF-1 vertically mounted in attic space connected to associated roof ventilator. (GRH-1)
3. Provide equipment pad for new condensing unit.

Sheet Keynotes:
B
C
A

MECHANICAL FLOOR PLAN

MECHANICAL ROOF PLAN

NORTH DISTRICT CREW QUARTERS AND SITE WORK, PHASE 1A
INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL EXISTING CONDITIONS IN DETAIL OR DIMENSION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.

UNLESS OTHERWISE NOTED, MECHANICAL/PLUMBING ITEMS SHOWN HEAVY SOLID (           ) SHALL BE NEW WORK AND MECHANICAL/PLUMBING ITEMS SHOWN LIGHT SOLID (           ) SHALL BE EXISTING.

DO NOT LOCATE PIPING WITHIN DEDICATED ELECTRICAL SPACE ABOVE ELECTRICAL PANELS OR EQUIPMENT. REFER TO SHEET M-001 FOR MECHANICAL LEGEND AND GENERAL NOTES.

GENERAL SHEET NOTES:

1. 
2. 
3. 

SHEET KEYNOTES:

A
P
- 1
AS
- 1
2" GLS
1 1/4" GEOTHERMAL LOOP PIPING
3/4" CD
SEE SITE CIVIL PLAN AND M100 FOR CONTINUATION
3/4" & 3/8" RS/L
2" GLS/R
14"x16" SA
14"x28" RA
WTAHP
- 1
WTAHP
- 2
12"x16" SA
6"x6" OA
14"x20" RA
14"x28" RA
GFS
- 1
ET
- 1
3/4" CD TO DSS
- 1
AND BUILDING EXTERIOR
5 5
5 5
6
CONCRETE EQUIPMENT PAD (TYP)
CONDENSATE PUMP
7
3/4" CD

MECHANICAL PART PLANS

NORTH DISTRICT CREW QUARTERS AND SITE WORK, PHASE 1A

M-401
GENERAL SHEET NOTES:

1. Information shown on this drawing pertaining to existing conditions has been obtained through use of building drawings or general field observations and may not indicate actual existing conditions in detail or dimension. The contractor is responsible for determining the actual existing conditions prior to fabrication or performance of any work. Should conditions be discovered that prevent execution of the work as indicated, the contractor shall immediately notify the architect in writing and await direction before proceeding with the work.

2. Unless otherwise noted, mechanical/plumbing items shown heavy solid ( ) shall be new work and mechanical/plumbing items shown light solid ( ) shall be existing.

3. Do not locate Piping within dedicated electrical space above electrical panels or equipment. Refer to Sheet M-001 for mechanical legend and general notes.

Shower

Storage

Hallway

Men's Toilet Room

Men's Toilet Room

See M-502 for Fan Support Detail.
MINIMUM DISTANCE FROM LOT LINES, UTILITIES, FOUNDATIONS = 10 FEET.
MINIMUM DISTANCE FROM NONPUBLIC WELLS = 20 FEET.
MINIMUM DISTANCE FROM SEPTIC TANKS = 50 FEET.
MINIMUM DISTANCE FROM PUBLIC WELLS, SESS POOLS, SEWAGE FIELDS = 100 FEET.

VERTICAL WTAHP
WTAHP-1,2
RETURN AIR
SUPPLY AIR
CONDENSATE DRAIN P-TRAP
BALANCING VALVE
W/ MEMORY STOP
TEMPERATURE
GAUGE (TYPICAL)
FLEXIBLE HOSE W/ SWIVEL
FITTING ON ON END (TYPICAL)
PRESSURE GAUGE (TYPICAL)
SHUT-OFF VALVE (TYPICAL)
UNION (TYPICAL)
MANUAL AIR VENT

PROVIDE 1" DUCT LINER FOR
FIRST 15'-0" FROM INLET
AND OUTLET OF WTAHP 1&2
FLEXIBLE CONNECTION (TYP)

ACCESS PANEL (TYP)*
FILTER ACCESS
WITH COVER
1 1/2"
1 1/2"
NOTE:
PIPING SHALL NOT BLOCK UNIT ACCESS PANELS

BENTONITE PLUG
LOAM
ROCK
BORE TO REQUIRED DEPTH
BORE HOLE WALL
U-TUBE
30% BENTONITE GROUT
MINIMUM 300 FT. DEPTH
ANCHOR SLEEVE TO WALL
(TYP)
INSULATION
(WHERE REQUIRED)
FIRESTOP
(TYP)
EXISTING WALL

ESCUTCHEON PLATE ON ONE
OR BOTH SIDES WHERE
PIPING IS EXPOSED (TYP)
22 GAUGE GALVANIZED STEEL
2 PIECE TELESCOPING
SHEETMETAL SLEEVE
(TYP)

LC
PIPE SLEEVE
SCH. 40 BLACK STEEL
RESILIENT SEALING
COMPOUND
MIN 1" CLEAR (AROUND)
BETWEEN PIPE AND STEEL
INTERIOR WALL
PIPE & SLEEVE
"LINK SEAL
BY THUNDERLINE CORP
WAYNE, MICH. OR
APPROVED EQUAL
PACK SPACE BETWEEN PIPE
AND SLEEVE WITH OAKUM
EXTERIOR WALL

ADJUSTABLE CLEVIS HANGER
MSS-SP 69 TYPE 1
HIGH DENSITY INSULATED
STRUCTURAL INSERT  (600 PSI
MIN. COMPRESSIVE
STRENGTH)
ALL THREAD ROD
WELDLESS EYE NUT MSS-SP69
TYPE 17
INSULATED STRUCTURAL
INSERT

MAX. HANGER LOADING
PIPE SIZE
ROD DIA.
MAX. SPACING
1/2" THRU 2"
2 1/2" & 3"
4" & 5"

NOTE:
1. THIS DETAIL SHALL BE USED AS A GUIDE. ALL HANGERS SHALL MEET
THE REQUIREMENTS OF SPECIFICATION SECTION 230529 - `HANGERS
AND SUPPORTS'.

SECTION
COUNTY
DESIGNED BY:
CHECKED BY:
BRIDGE NO.
$DATE_USER$
N/A
JMT
\jmt.corp.local\jmtdfs\NDE\151152_010_Chapman_Yard_-_Phase\CADD\MEP\15-1152-010_CHAPMAN YARD - MEP - CENTRAL.rvt
MECHANICAL DETAILS
M-501
UNOFFICIAL
WEBSITE
COPY
DUCT FITTINGS

INLINE FAN AND RELIEF VENTILATOR INSTALLATION

TYPICAL PIPE PENETRATION THROUGH GRADE FLOOR

BRANCH AND DIFFUSER INSTALLATION

BELOW GRADE PIPING INSTALLATION
GLS 1/2" SAMPLE OUTLET WITH BALL VALVE

3/4" DRAIN VALVE (PIPE TO FLOOR DRAIN)

FOR CONTINUATION SEE FLOOR PLANS

1-1/2" HPWS&R TO AND FROM WATER TO AIR HEAT PUMPS

FLOW METER FITTING #1

CLEVIS HANGER, ADJUST TO ALLOW SEPARATOR REMOVAL FROM LINE

AIR SEPARATOR EQUAL TO AMTROL MODEL#2ASL.

ALL THREADED ROD, LENGTH TO SUIT SPACE AVAILABLE

MAV MAV AAV

2" HEADER PURGE VALVES

PRESSURE GAUGE WITH NEEDLE VALVE (TYP)

COPPER SUPPLY HEADER

COPPER RETURN HEADER

HIGH DENSITY POLYETHYLENE PIPING (REFER TO SPECIFICATIONS)

3/4" PURGE/DRAIN VALVE (TYP)

TYPICAL GEOTHERMAL VERTICAL U-TUBE (SEE M-501)

3 VERTICAL U-TUBES PER RUN-OUT

COMBINATION BALNCE/SHUT-OFF VALVE WITH MEMORY (TYP)

BALL VALVE (TYP)

2" HEADER PURGE VALVES

NOTES:
1. TAG AND MATCH EACH RETURN HEADER RUN-OUT AND SUPPLY HEADER RUN-OUT CIRCUIT.
2. THE GROUND HEAT EXCHANGER CONTRACTOR SHALL EXTEND THE SUPPLY AND RETURN RUN-OUTS FROM THE CIRCUITS TO 2 FEET ABOVE THE MECHANICAL ROOM FLOOR. THE MECHANICAL CONTRACTOR SHALL EXTEND PIPING FROM THIS POINT.
3. THE GROUND HEAT EXCHANGER CONTRACTOR SHALL INSTALL A POLYETHYLENE PIPE TO BRASS MECHANICAL CONNECTOR WITH CAP AND PLUG. THE MECHANICAL CONTRACTOR SHALL CONNECT THE GROUND HEAT EXCHANGER AT THIS POINT.
4. TO DETERMINE FLOW RATE FOR EACH CIRCUIT, DIVIDE THE PUMP TOTAL FLOW RATE BY THE TOTAL NUMBER OF VERTICAL U-TUBES. THEN MULTIPLY THE VALUE BY THE NUMBER OF VERTICAL U-TUBES PER CIRCUIT.

ASME SAFETY RELIEF VALVE, RATED AT 50 PSIG, AND 250°F. PIPE TO SOLUTION TANK.

50 GALLON SOLUTION TANK W/ SOLUTION METERING PUMP
1. PROVIDE LOCAL WALL THERMOSTAT WITH UNIT HEATER.
2. PROVIDE NECK MOUNTED OPPOSED BLADE DAMPER.

NOTES:
3. PROVIDE MANUFACTURER'S SUPPLIED FAN SPEED CONTROLLER.
2. PROVIDE GREENHECK RELIEF VENTILATION MODEL MRSR SIZE 10, OR APPROVED EQUAL. PERFORMANCE SHALL BE 500 CFM AT 0.075" W.G. PRESSURE DROP.
1. PROVIDE FACTORY INSTALLED DISCONNECT AND THERMAL OVERLOAD PROTECTOR.
3. PROVIDE WITH INTEGRAL CONDENSATE PUMP.
2. PROVIDE UNIT WITH CONTROLLABLE THERMOSTAT.
1. PROVIDE UNIT WITH FACTORY INSTALLED, INVERTER CONTROLLED ROTARY COMPRESSORS.

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**Ductless Split System Schedule**

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<td>GFS-1</td>
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**Gravity Relief Hood Schedule**

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**Exhaust Fan Schedule**

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**Unit Heater Schedule**

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**Pump Schedule**

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**Miscellaneous Equipment Schedule**

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**Air Device Schedule**

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**Water-to-Air Heat Pump Schedule**

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**Designation Service Location**

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</table>
1. THE UNIT DISPLAY SHALL INCLUDE THE ABILITY TO LOCK THE SCREEN TO PREVENT UNAUTHORIZED OPERATOR FULL ABILITY TO CHANGE SETPOINTS AND OCCUPIED/UNOCCUPIED MODES IF NECESSARY.

2. THE UNIT DISPLAY SHALL GIVE THE ROOM TEMPERATURE SENSOR WITH AN LED DISPLAY SHALL BE PROVIDED WITH EACH UNIT. THE LED DISPLAY SHALL SHOW ROOM TEMPERATURE, TEMPERATURE SETPOINT, AND HEATING/COOLING MODE.

3. THE SPACE HUMIDITY DROPS 5% BELOW SETPOINT.

4. THE UNIT DISPLAY SHALL INCLUDE THE ABILITY TO LOCK THE SCREEN TO PREVENT UNAUTHORIZED OPERATOR FULL ABILITY TO CHANGE SETPOINTS AND OCCUPIED/UNOCCUPIED MODES IF NECESSARY.

5. THE UNIT DISPLAY SHALL SHOW ROOM TEMPERATURE, TEMPERATURE SETPOINT, AND HEATING/COOLING MODE.

6. THE GROUND SOURCE INLINE PUMPS SHALL OPERATE IN A LEAD/LAG CONFIGURATION AND SHALL OTHERWISE THE DAMPER WILL BE NORMALLY CLOSED.


8. THE INTEGRAL WTAHP CONTROLLER SHALL PROVIDE OCCUPIED HEATING SETPOINT (ADJ.), OCCUPIED HEATING SETPOINT (ADJ.), OCCUPIED/UNOCCUPIED SCHEDULE (ADJ.), AND SPACE RELATIVE HUMIDITY SETPOINT (ADJ.) FOR THE INTEGRAL WTAHP CONTROLLER SHALL PROVIDE OCCUPIED HEATING SETPOINT (ADJ.), OCCUPIED/UNOCCUPIED SCHEDULE (ADJ.), AND SPACE RELATIVE HUMIDITY SETPOINT (ADJ.).

9. THE BUILDING OPERATOR THROUGH THE MANUFACTURER'S CONTROLLER.

10. THE SPACE THERMOSTAT.

11. THE SPACE TEMPERATURE SHALL BE MONITORED BY A SPACE THERMOSTAT.

12. THE CONSTANT VOLUME CEILING MOUNTED UNIT HEATER (UH-1) HAS A CONSTANT VOLUME FAN AND HEATING ELEMENT. WHEN THE HEATING SPACE TEMPERATURE IS BELOW 65°F

13. THE CONSTANT VOLUME EXHAUST FAN (EF-1) SHALL BE ENERGIZED DURING OCCUPIED MODE ONLY.

14. THE UNIT HEATER FAN SHALL RUN ONCE THE HEATING ELEMENT REACHES OPERATING TEMPERATURE. THE SPACE TEMPERATURE SHALL BE MONITORED BY A SPACE THERMOSTAT.

15. THE AIR COOLED CONDENSING UNIT SHALL BE ENERGIZED WHEN THE INDOOR UNIT CALLS FOR HEATING (ADJ.)

16. THE AIR COOLED CONDENSING UNIT SHALL MODULATE AS NEEDED TO SATISFY HEATING OR COOLING.

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NORTH DISTRICT
CREW QUARTERS AND SITE WORK,
PHASE 1A

FIRE PROTECTION - FLOOR PLAN

UNOFFICIAL WEBSITE COPY
NEW UTILITY SITE PLAN

PROPOSED JUNCTION WELL, TYPE 4
EXISTING POLE MOUNTED TRANSFORMER
EXISTING HANDHOLE
EXISTING UTILITY POLE.
NEW GENERATOR FUEL TANK

COORDINATE WITH DELMARVA POWER FOR WORK REQUIRED AT EXISTING DELMARVA POWER POLE.
CONTRACTOR SHALL PROVIDE ALL MATERIAL, LABOR, AND INCIDENTALS REQUIRED FOR DELMARVA POWER SERVICE TO THE SITE.
PROPOSED TYPE 4 JUNCTION WELL. PROVIDE 12 SPARE 4" CONDUITS WITH PULL STRINGS FROM TYPE 4 JUNCTION WELL TO MAIN DISTRIBUTION SWITCHBOARD SECTION 2.
PROPOSED TYPE 4 JUNCTION WELL. PROVIDE 12 SPARE 4" CONDUITS WITH PULL STRING FROM TYPE 4 JUNCTION WELL TO MAIN DISTRIBUTION SWITCHBOARD SECTION 3.

SCALE: 1" = 50'

PLAN NORTH
Activity: Network Running Fault Power ON OFF
I/O Cable Serial Data

PROPOSED ELECTRICAL UTILITY PAD LAYOUT

WIRELESS REMOTE MONITOR SCHEMATIC DIAGRAM

ELECTRIC SERVICE GROUNDING ELECTRODE
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**Phase 1A**

**Crew Quarters and Site Work, North District**

### Crew Operations Building Lighting Fixture Schedule

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