ADDENDUM No.3

HERITAGE HIGH SCHOOL

SDE NO.:115-13-00-100

CITY OF LYNCHBURG BID NO.: 14-896
LYNCHBURG CITY SCHOOLS C.I.P. NO.: YS032
3020 WARDS FERRY ROAD
LYNCHBURG, VIRGINIA 24502

MOSELEYARCHITECTS

ARCHITECT/ENGINEER — RICHMOND, VIRGINIA

DOMINION SEVEN ARCHITECTS

ASSOCIATED ARCHITECT — LYNCHBURG, VIRGINIA

TIMMONS GROUP

CIVIL CONSULTANT — RICHMOND, VIRGINIA

FOODSERVICE CONSULTANTS STUDIO, INC.

FOODSERVICE — ASHLAND, VIRGINIA

FEBRUARY 28, 2014

INFORMATION AVAILBLE TO BIDDERS

1. Information included in this section is provided as a courtesy to bidders and **shall not be considered part of the Contract Documents.**
2. Information Available to Bidders attached to this addendum is the following:
   1) Asbestos Operations & Maintenance Plan Update August 2009: Heritage High School
   2) Asbestos Operations & Maintenance Plan Update September 2012: Heritage High School
   3) OSHA lead-Based Paint Assessment report and Asbestos Pre-Demolition Building Inspection: 127 Aaron Place
   4) OSHA lead-Based Paint Assessment report and Asbestos Pre-Demolition Building Inspection: 2007 Wards Ferry Road
   5) OSHA lead-Based Paint Assessment report and Asbestos Pre-Demolition Building Inspection: 3010 Wards Ferry Road
   6) Asbestos Pre-Demolition Exterior Building Inspection report
   7) Drawings of the existing Heritage High School.
3. Note to the pre-qualified general contractors: Any changes to the personnel listed in the pre-qualification packages should be identified on the qualifications forms included in the Bid Documents.
4. In response to a question about minority and disadvantaged businesses participation, The City of Lynchburg encourages participation of minority and disadvantaged businesses, and for the Heritage High School project, suppliers and subcontractors identified as such either through the Federal DBE program or Virginia's SWAM program would meet the criteria. There is no minimum minority and disadvantaged businesses participation goal.
5. A question was received concerning Davis-Bacon wages. **Davis-Bacon wages do not apply to this project.**
6. The window to submit substitution requests is closed. Moseley Architects has received numerous substitution requests for review. Approved substitutions and product approvals are listed in the Addendum below. Due to the volume of requests received, **Moseley Architects will not be able to notify those manufacturers who were not approved.**
7. No substitutions will be accepted for Section 126100 – Fixed Audience Seating. **Only the three listed manufacturers in this section will be permitted to bid on this project.**
8. Additional civil related approved substitutions and manufacturers are as follows:
   1) 12” Multi-Flow drainage system as produced by Varicore is an acceptable substitute for the 1”x12” ADS Advanedge flat panel drains called for under synthetic turf.
   2) Up-Flo Filter by Hydro International is an acceptable substitute for the Contech StormFilter cartridges. Product information & construction details will be a submittal requirement.
   3) Hellas Construction – TPS 5000 is an acceptable substitute for the Maxiflex BL Surfacer tennis court surface system.
   4) SEAL-FLEX LR-8 is an acceptable substitute for the MAXFLEX BL Latex Mat System track surface system.
9. As stated in Section 096466 – Wood Athletic Flooring and Section 096566 – Resilient Athletic Flooring, floor systems in both sections **must be supplied by the same manufacturer.**
10. As stated in Section 105626 – Manual Mobile Storage Shelving, shelving, mobile carriages and platforms for static shelving **must be supplied by the same manufacturer.**

11. Moseley Architects received numerous questions from bidders and endeavored to provide a response either in writing if the response was a simple clarification or via the Addendum below. Due to the volume of questions received, Moseley Architects will not be able to a response to every question received.

12. A question was received concerning Detail 4/A7.7.1 and the height of the transition strip indicated in this detail and would it create an issue with the bleacher banks. The bleacher banks will not cross this threshold. This detail indicates the transition from the wood gym floor system to the rubber track floor surface.

13. A question was received about rolling gates indicated in rooms D33, F07, and F08 and what section to use. Please use the counter detail in section 1/A5.1.30 for these three conditions.

14. A question was received about which casework section should apply to Rooms B22, B25, B27, B31, D50, D51, D54, D55, D57, and D58. These rooms would be under Section 123553-Wood Laboratory Casework. Counters and sinks in these rooms shall be epoxy.

15. Civil related questions and responses are as follows:
    1) The following question concerns Drawing number C1.02 The designs list SM-9.0 as a wearing surface. This area typically uses SM-9.5A which is more economical than the 9.0. It is typically laid at thickness of 1.5" to 2" deep.
       Answer: SM-9.0 will be used as the wearing surface per geotechnical recommendations.
    2) The following question concerns Drawing number C 1.02 The stone base is specified as 21B. Would 21A be acceptable since it is more economical and is more dense than the 21B.
       Answer: 21A is an acceptable substitute.
    3) The following question concerns Spec Section 32 1216, page , paragraph : Are there any provisions for liquid asphalt adjustment due to the length of the project?.
       Answer: No.
    4) The following question concerns Drawing number C 1.02 Prime is not shown on the typical sections for LD and HD paving. Spec Section 32 1216 Prime is mentioned for asphalt less than 4” but is not shown on any typicals. Is it required?
       Answer: Prime coat will not be required.
    5) Spec Section 32 1123 3.3A states that overlapping joints in the geotextile liner have a 24” overlap. 2.2B states 36” overlap is required. Which is the correct amount of overlap?
       Answer: 36” is the correct amount of overlap required.
    6) Spec Section 32 1123 3.8A states 20” trench for collector pipe. Drawing C1.12 shows 3’. What is the minimum width of the collector pipe trench?
       Answer: 20”.
    7) Spec Section 32 1123 3.9A states minimum of 30’ spacing on flat drains. Drawing C1.12 shows 40’ on center. Is the drawing correct?
       Answer: The drawing is correct. Spacing will be 40’ on center for the baseball field & 30’ on center for the football field.
    8) Spec Section 32 1823.13 3.1C The infield mix spec in this section does not meet the minimum qualifications specified in 2.1B. What type of infield mix will be installed?
       Answer: The infield mix will be Ruckersville Choice Infield Mix as produced by Luck Stone or an approved equal.

16. A question was received about duct cleaning requirements in Section 233113. The requirements of paragraph 3.10 apply only if ducts are determined as dirty per the cleanliness test requirements in paragraph 3.9.

ADDENDUM 3

Information from this point forward shall be considered part of the Contract Documents.

GENERAL:

All planholders are requested to attach this Addendum to the inside front cover of each Project Manual. Please inform all concerned that the Documents are modified by this Addendum.

The following modifications and clarifications are hereby made a part of the Contract Documents and supersede or otherwise modify the provisions of the published *Project Manual* and *Drawings*, dated February 5, 2014.

CHANGES TO THE PROJECT MANUAL:

TABLE OF CONTENTS

1. Page 1 under "INFORMATION AVAILABLE TO BIDDERS", ADD the following:
   "Asbestos Operations & Maintenance Plan Update August 2009: Heritage High School
   Asbestos Operations & Maintenance Plan Update September 2012: Heritage High School
   OSHA lead-Based Paint Assessment report and Asbestos Pre-Demolition Building Inspection: 127 Aaron Place
   OSHA lead-Based Paint Assessment report and Asbestos Pre-Demolition Building Inspection: 2007 Wards Ferry Road
   OSHA lead-Based Paint Assessment report and Asbestos Pre-Demolition Building Inspection: 3010 Wards Ferry Road
   Asbestos Pre-Demolition Exterior Building Inspection Report
   Drawings of the existing Heritage High School"

2. Page 1 after the City of Lynchburg Documents, ADD the following:

   "Asbestos Abatement Specification"

3. Page 4 under Division 12 Furnishings. ADD the following:

   "122414 Motorized Roller Window Shades"

INSTRUCTIONS TO BIDDER

1. Page PM-25, paragraph 5.1, DELETE the sentence beginning with "To be given consideration……" and REPLACE with "To be given consideration, requests for clarification must be received by February 25, 2014 in order to allow preparation of a written response.".

ASBESTOS ABATEMENT SPECIFICATION

1. ADD this section to the Contractor Documents after the City of Lynchburg Documents and before Section 010200 – General Sitework Requirements.

SECTION 033000 – CAST-IN-PLACE CONCRETE

1. Page 6, paragraph 2.5.1, ADD the following "Refer to Drawings A3.3.1 through A3.3.8 for floor pattern drawings. Up to five (5) integral colors may be selected by the Architect.".
2. Page 16, paragraph 3.10.D.c, ADD the following:

   "d. Use plastic blades on trowel machines for slabs to be polished."

3. Page 17, paragraph 3.12.E.2, ADD the following:

   "d. For slabs to be polished cover entire slab from edge to edge."

SECTION 042000 – UNIT MASONRY

1. Page 12, ADD the following:

   " 2.16 COLD-APPLIED, EMULSIFIED-ASPHALT DAMPPROOFING

   A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

      1. ChemMasters Corp.
      2. Degussa Building Systems; Sonneborn Brand Products.
      3. Gardner Gibson, Inc.
      4. Henry Company.
      5. Karnak Corporation.
      6. Koppers Inc.
      7. Malarkey Roofing Products.
      8. Meadows, W. R., Inc.
      9. Tamms Industries, Inc.

   B. Trowel Coats: ASTM D 1227, Type II, Class 1. .

   C. Fibered Brush and Spray Coats: ASTM D 1227, Type II, Class 1.

   D. Brush and Spray Coats: ASTM D 1227, Type III, Class 1. "

2. Page 16, paragraph 3.7.C, in the first sentence DELETE "field-fabricated or".

3. Page 19, paragraph 3.14.C, in the first sentence DELETE "units" and REPLACE with "assembly items including mortar, grout and masonry units".

SECTION 074243 –COMPOSITE WALL PANELS:

1. Page 6, paragraph 2.2.A.1, ADD the following:

   "d. Alucoil North America: Larson."

2. Page 7, DELETE paragraph 2.3.

3. Page 12, DELETE paragraph 3.5.

SECTION 084113 –ALUMINUM ENTRANCES, STROREFRONT AND CURTAINWALL:

1. Page 2, DELETE paragraph 1.3.E.

2. Page 4, paragraph 2.1.A.1, ADD the following to the end of the sentence "2250 LR".

3. Page 4, paragraph 2.1.A.3, ADD the following to the end of the sentence "HP-225".

4. Page 4, paragraph 2.1.A.4, ADD the following to the end of the sentence "YCW 700".

5. Page 6, DELETE paragraph 2.3.D.1.

6. Page 6, DELETE paragraph 2.3.D.2.

7. Page 6, DELETE paragraph 2.3.D.3.

SECTION 088000 – GLAZING:

1. Page 5, DELETE paragraph 2.3.A.2 and REPLACE with the following:

   "2. Products:

      a. "FireLite NT" by Nippon Electric Glass Co., Ltd., and distributed by Technical Glass Products.
      b. "Pyran Platinum F" by SaftiFirst."

2. Page 7, paragraph 2.9.B.1, DELETE "FireLite NT as specified.".
3. Page 7, paragraph 2.9.B, ADD the following:

   2. Products:

      a. "FireLite NT" by Nippon Electric Glass Co., Ltd., and distributed by Technical Glass Products.
      b. "Pyran Platinum F" by SaftiFirst."

SECTION 093000 – CERAMIC TILE:

1. Page 3, paragraph 2.3.A, ADD **"& CT2**"
2. Page 3, paragraph 2.3. B, DELETE "**(CT2)**" and SUBSTITUTE "**(CT3 & CT4)**"
3. Page 4, paragraph 2.3. C, DELETE "**(CT3)**" and SUBSTITUTE "**(CT5 & CT6)**"
4. Page 4, paragraph 2.3. D, DELETE "**(CT4)**" and SUBSTITUTE "**(CT7)**
5. Page 3, paragraph 2.3.A.9, B.9, C.9, DELETE "To be decided by Architect" and SUBSTITUTE "Refer to drawing A7.0.2 for typical multi-stall toilet ceramic tile wall pattern and wainscot."
6. Page 3, paragraph 2.3.B.7., DELETE "11-13/16" and SUBSTITUTE "5-13/16"
7. Page 4, paragraph 2.3.C.2., ADD "(Please allow 6 to 8 weeks, made to order)"
8. Page 4, paragraph 2.3.C.6., DELETE "18 inches by 18 inches" and SUBSTITUTE "6 inches by 12 inches"
9. Page 4, paragraph 2.3.C.7., DELETE "17-13/16 inches by 17 13/16 inches" and SUBSTITUTE "5-13/16 inches by 11-13/16"
10. Page 4, paragraph 2.3.D.9., DELETE "To be decided by Architect" and SUBSTITUTE "Refer to note on A7.0.2"
11. Page 4, paragraph 2.3.D, ADD "10. Location: Single Stall Toilets and All Shower Stall Locations"
12. Page 4 and 5, paragraph 2.3.E.1, G.1, H.1 ADD "Dal-Tile" as an acceptable manufacturer.
13. Page 4, paragraph 2.3.E.2, ADD "Rittenhouse Square" as an acceptable pattern.
14. Page 4, paragraph 2.3.E.11, ADD "Location: Single Stall Toilets and E07, E08, E10, E19, E21, and E22. Refer to A7.0.2 for tile patterns."
15. Page 5, paragraph 2.3.F.10, G.10 DELETE " To be decided by Architect" and SUBSTITUTE "Refer to drawing A7.0.2"
16. Page 5, paragraph 2.3.G.2, ADD "Liners" as an acceptable pattern.
17. Page 5, paragraph 2.3.H.2, ADD "Semi-Gloss" as an acceptable pattern.
18. Page 5, paragraph 2.3.H.10, DELETE "Two color pattern to be decided by Architect" and SUBSTITUTE "Provide GWT (price group 1-2) at full wall height with one 4" course GWT perimeter border (price group 4) at 5'-0" AFF and two ½" by 6" course GWT4 perimeter borders."

19. Page 5, paragraph 2.3.H.11, ADD "Location: L25"
20. Page 5, paragraph 2.3. G, ADD ",**5 & 6**"
21. Page 5, paragraph 2.3. H, DELETE "**(GWT 5 and 6)**" and SUBSTITUTE "**(GWT 7 & 8)**"

SECTION 095113 – ACOUSTICAL PANEL CEILINGS:

1. Page 4, paragraph 2.5.A, ADD the following:

   "3. Custom Architectural Designs, Inc., Powder Springs, Georgia. http://www.cadconcepts.net"
2. Page 5, paragraph 2.6.A, ADD the following:

   "3. Custom Architectural Designs, Inc., Powder Springs, Georgia. http://www.cadconcepts.net"

SECTION 096466 – WOOD ATHLETIC FLOORING:

1. Page 3, DELETE paragraph 2.1.A.1.
2. Page 3, DELETE paragraph 2.1.A.2.

SECTION 096519-RESILIENT TILE FLOORING

1. Page 2, paragraph 2.1., DELETE "RSR/TST" and SUBSTITUTE "RFT1"
2. Page 2, paragraph 2.1., ADD "Location: Stair landings and elevator"
3. Page 2, paragraph 2.2., ADD "2" after "RFT"

SECTION 096566 – RESILIENT ATHLETIC FLOORING:

1. Page 2, paragraph 2.1.A, REPLACE "1. Mondo America Inc. "MondoTrack" " with "1. Horner Flooring Co, Inc.; Olymp-XX".
2. Page 2, paragraph 2.1.A, DELETE "3. Signature Sports Flooring; "Track Deck".
3. Page 2, DELETE paragraph 2.1.F.

SECTION 096813 – TILE CARPETING:

1. Page 4, paragraph 2.3.D,1. REPLACE "Verge" " with "Ratio".
2. Page 4, paragraph 2.3.D.9. REPLACE "Powerbond Closed Cell Cushion" with "Non-Woven-synthetic fiber"
3. Page 4, paragraph 2.3. D.12. REPLACE "Horizontal Ashlar" with "Random"

SECTION 101100 – VISUAL DISPLAY SURFACES

1. Page 3, paragraph 2.2.A.1, ADD the following:

   "h. AJW Architectural Products."

SECTION 101400 – SIGNS

1. Page 5, paragraph 2.7.A, DELETE "2'-6" " and REPLACE with "3'-0" ".
2. Page 5, DELETE paragraph 2.7.B.

SECTION 104413 – FIRE-PROTECTION SPECIALITIES

1. Page 3, paragraph 2.6.A, ADD the following to the end of this paragraph; "Locate emergency key access box on north exterior wall of Room E36-Mechanical between doors C01A and E36B.".

SECTION 105626 – MANUAL MOBILE STORAGE SHELVING:

1. DELETE section 105626 and REPLACE with attached spec section 105626.

SECTION 112300 – COMMERCIAL LAUNDRY EQUIPMENT:

1. Page 2, paragraph 2.1.A.1, DELETE the word "residential" in the first sentence.
2. Page 2, paragraph 2.2.A.1, ADD the following:

   "a. Additional approved product: Continental 75 Electric Dryer #CG7585."
3. Page 2, paragraph 2.2.B.1, ADD the following:

   "a. Additional approved product: Continental 55 Washer-Extractor #EM055."

SECTION 116623 – GYMNASIUM EQUIPMNENT

1. Page 3, DELETE paragraph 2.2 and REPLACE with the following:

   "2.2 SCOREBOARDS

   B. Basis-of-Design Product: Subject to compliance with requirements, provide **Fair-Play,** a division of Trans-Lux Corporation www.fair-play.com, products indicated or comparable products by one of the following:

      1. Daktronics, Inc. www.daktronics.com
      2. Nevco Scoreboard Company. www.nevcoscoreboards.com

   C. Gymnasium – Center Court: Contractor shall salvage and install two existing suspended scoreboards and controllers from the existing high school. Provide the following accessories for main court only to coordinate with the function of the existing scoreboards. All LED display.

      1. (1 pair) Shot Clocks – Fair-Play ST-1400-4 for backstop mounting. Provide 120 VAC (30 watts, 0.25 amps) configuration.
      2. (1 pair) NBA LED backboard light strip – Fair-Play GL 7248, one each backstop

   D. Gymnasium – Side Courts: Provide the following interior multiple sport scoreboard and accessories. All LED display. Nominal size is 8'-0" wide by 3'-0" high.

      1. Provide (2) Interior Scoreboards – Fair-Play 3600-4 at each side court location as indicated in the Drawings. Provide 120 VAC (200 watts, 60 Hz, 1.7 amps) configuration. Provide scoreboard color as selected by Architect.
      2. (2) Controllers – Fair-Play MP-52 wireless controller with protective case. Provide 120 VAC, 60 Hz. "
2. Page 6, paragraph 2.4.B, ADD the following:

   "1. Provide sleeves and covers at all locations indicated in the Drawings. Provide net, post standards and specified accessories for the center court only."
3. Page 6, paragraph 2.4.C.1, CHANGE model number "#872" to "#00792100".
4. Page 6, paragraph 2.4.D, CHANGE model number "#01991-000" to "#01993-000".
5. Page 7, paragraph 2.4.D.1, CHANGE "3-1/2-inch OD" to "3-inch OD".

6. Page 9, paragraph 2.7.A.3, DELETE "(00348-3 is design standard)" to "(00570-1XX is the design standard)".

SECTION 122413 – ROLLER WINDOW SHADES

1. Page 3, DELETE paragraph 2.1.B.7 and REPLACE with the following:

   "7. Locations: Provide at exterior windows in the following locations: A02, A03, A04, A05, A12, A13, A14, A15, A17, A18, A19, B02, B03, B11, B12, B13, B14, B16, B17, B18, B21, B24, B35, B38, B40, B41, C09, C10, C11, C16, C17, C18, C20, C23, C26, D04, D05. D25, D27, D29, D40, D41, D42, D49, D50, D53, E16, E17, G22, G23, G24, G30, H03, H04, H05, H06, H08, H10, H19, H22, J03, J04, J04A, J06, J07, J08, J09, J16, J17, J18, J19, K03(west wall), K04, K06, K11, K13, K15, K16, K17, K18, K19, L02, L03, L04, L05, L10, L11, L12 and L18."

SECTION 122414 – MOTORIZED ROLLER WINDOW SHADES

1. ADD this section to the Contract Documents.

SECTION 123216 – LAMINATE CLAD INSTITUTIONAL CASEWORK

1. Page 2, paragraph 1.5.E, ADD the following; "2. Grade: Premium".
2. Paragraph 2.1.A, ADD the following:

   "7. Mastercraft Woodworking Company, Inc. http://mastercraftwoodworking.com"
3. Page 7, paragraph 2.7.A, ADD the following: "3. Provide pencil sharpener block in each instructional space, classroom, resource room and laboratory.".

SECTION 123551 – MUSIC EQUIPMENT STORAGE CASEWORK

1. DELETE this section and REPLACE with the specification attached to this addendum.

SECTION 123553 – WOOD LABORATORY CASEWORK

1. Page 5, paragraph 2.5, ADD the following;

   "C. Grain Direction: Vertical on both doors and drawer fronts, with continuous vertical matching. "
2. Page 18 under Item DT-3/BT-01 after "….vise 0082" ADD "by LSI or equal".
3. Page 18 under Item DT-3/BT-01 after "….vise 0081" ADD "by LSI or equal".

SECTION 126100 – FIXED AUDIENCE SEATING

1. Page 3, paragraph 2.2.A.1.b, CHANGE the listed model number from "Millennium 91.12.xx.12" to "Citation 90.12.56.12".
2. Page 4, paragraph 2.2.D.1, CHANGE "No.91 Millennium Back" to No.90 Citation Back".
3. Page 4, DELETE paragraph 2.2.L.1 and REPLACE with the following: "1. Provide removable chairs where wheelchair spaces are indicated. –two chairs at each wheelchair space.".

SECTION 126600 – TELESCOPING STANDS

1. Page 1, paragraph 1.3, ADD the following "E. Submittal requirements of this section only apply to the two new bleacher banks. Only a shop drawing indicating the location of the salvaged and relocated bleacher bank will be required for the salvaged bleachers."

SECTION 224000 – PLUMBING FIXTURES

1. Page 28, ADD the following:

"2.34 P-4J (DOUBLE-BOWL SINK (ACCESSIBLE))

A. Manufacturer & Model Number: Elkay LRADQ3321
   1. Material: 18 Gauge Stainless Steel
   2. Overall Length (Right to Left): 22"
   3. Overall Width (Front to Back): 19½"
   4. Inside Bowl Depth: 5½"
   5. Mounting: Inside hole ratchet system equal to Elkay Quick-Clip® mounting system. Systems requiring access from below shall not be permitted.
   6. Number of Bowls: 2
   7. Centerline to Centerline of Waste: 14¾"
   8. Deck Hole drilling configuration: 4 holes,(3) 4"apart centered on faucet ledge for faucet and (1) hole at front of bubbler ledge for bubbler.

B. Faucet: Chicago 1100-GN2AE3-317ABCP
   1. Hole configuration: 3 Hole installation, 4" centers.
   2. Spout: 5.25" gooseneck swing spout.
   3. Handles: 4" wristblade.
   4. Aerator: Vandal resistant, pressure compensating, 2.2 gpm
   5. Cartridges: Ceramic or compression ¼ turn.
   6. Meets ADA requirements: Yes
   7. Other:
      a. Red & blue temperature indicators. Red = Hot, blue = cold.

C. Basket Strainer & Tail Piece (2 Required): McGuire Part Number 151
   1. Material: Forged brass, chrome plated.
   2. Tailpiece: 1-1/2" x 4" 20 gauge seamless brass, chrome plated.
   3. Nuts: Cast brass lock, slip, and coupling, chrome plated

D. Continuous Waste: McGuire Part Number 111C16G17
   1. Material: Cast Brass
   2. Configuration: End outlet.
   3. Finish: Chrome plated
   4. Gauge: 17
   5. Size: 1½" by 1½"

E. Trap: McGuire Part Number 8912-C-F
   1. Size:1-1/2"x 1-1/2"
   2. Material: Polished chrome plated cast brass.
   3. Cleanout plug: Yes
   4. Nuts: Polished chrome plated brass.
   5. Wall bend: 17-gauge seamless tubular chrome plated brass.
   6. Wall flange: Chrome plated brass with setscrew. Where pipe protrudes from wall contractor may provide deep flange.

F. Supplies: McGuire Part Number 2167-N3-F
   1. Inlet: ½" IPS
   2. Outlet: ½" OD compression.
   3. Nipple: ½" x 3" chrome plated brass.
   4. Wall flange: Heavy brass chrome plated with set-screw

G. Insulation: Tru-Bro Lav Guard #102
   1. Insulate P-trap, angle valves, cold risers, and continuous waste.

2. Notes:
   a. Where piping is covered by casework, insulation is not required.
   b. Insulation for continuous waste is not included in kit and must be provided separately.

H. Other Manufacturers: Provide products, features, and accessories equal to those specified above.
   1. Sink
      a. Kohler
      b. Just
      c. Eagle Group
   2. Faucet:
      a. Speakman
      b. Cambridge Brass
      c. T&S Brass
   3. Basket Strainer & Tail Piece:
      a. Kohler
      b. Cambridge Brass
   4. Trap:
      a. Kohler
      b. Cambridge Brass
   5. Supplies:
      a. Cambridge Brass
      b. Kohler"

SECTION 220700 – PLUMBING INSULATION:

1. Page 11, paragraph 3.10.C, DELETE text following "(Includes secondary roof drain conductors)." and SUBSTITUTE: "Insulate first thirty linear feet of piping including vertical piping from drain body and first horizontal piping run. If a second vertical run occurs before thirty linear feet is reached, terminate insulation at end of first horizontal run."

SECTION 230548 – VIBRATION CONTROLS FOR HVAC:

1. Page 2, paragraph 2.1.A, ADD the following:

   "6. Vibro-Acoustics."

SECTION 232113 – HYDRONIC PIPING:

1. Page 7, paragraph 2.7, ADD the following:

   "H. Centrifugal Solid Separators:

      1. Manufacturers: Griswold Filtration, J.L. Wingert, Lakos
      2. Constructed of carbon steel, schedule 40 connection sizes, 150-psig working pressure, sandblasted and painted, with wall bracket or stand as required by installation. Provide and install two separators in parallel for condenser water loop. Each separator shall remove 98% of suspended particles larger than 45 microns with a specific gravity no greater than 2.6 from 60 gpm of water passing through it. Total side stream filtration flow rate is 120 gpm. Provide motorized ball valve with programmable solid state timing control for automatic purge."

2. Page 8, paragraph 3.1.A.1.a, after "soldered joints" ADD "or pressure-seal joints."

3. Page 8, paragraph 3.1.A.1, DELETE sub-paragraph b, and SUBSTITUTE:

"b. Schedule 40 steel pipe with malleable iron fittings and threaded joints per ASME B16.3."

4. Page 9, paragraph 3.1.B.1, DELETE sub-paragraph a, and SUBSTITUTE:

   "a. Schedule 40 steel pipe, wrought-steel fittings and wrought-cast or forged steel flanges and flange fittings and welded and flanged joints.

   b. Type L drawn-temper copper tubing, wrought-copper fittings and soldered joints."

5. Page 9, paragraph 3.1, DELETE sub-paragraph I.

SECTION 233113 – METAL DUCTS:

1. Page 5, paragraph 2.3.B, ADD the following:

   "6. Semco, LLC.
   7. Turnkey Duct Systems."

2. Page 6, paragraph 2.4.B, ADD the following:

   "6. Semco, LLC.
   7. Turnkey Duct Systems."

3. Page 7, paragraph 2.5.B, ADD the following:

   "6. Semco, LLC.
   7. Turnkey Duct Systems."

4. Page 7, paragraph 2.6.B, ADD the following:

   "6. Semco, LLC
   7. Turnkey Duct Systems."

5. Page 8, paragraph 2.7.A, ADD the following:

   "6. Semco, LLC
   7. Turnkey Duct Systems."

6. Page 13, paragraph 3.3, DELETE "DISHWASHER HOOD" and SUBSTITUTE "LOCKER ROOM AND TEAM ROOM".

7. Page 13, paragraph 3.3.A, in the first sentence, DELETE "dishwashers or warewashers" and SUBSTITUTE "locker rooms, team rooms and shower rooms."

8. Page 17, paragraph 3.12.E, DELETE sub-paragraphs 1 through 3 and SUBSTITUTE the following:

   "1. Transfer Air Ducts: 1" thickness."

9. Page 18, paragraph 3.12, ADD the following:

   "H. Acid-Resistant (Fume-Handling) Ducts:

      1. Type 304 stainless steel sheet.
      2. Exposed to View: No. 4 finish.
      3. Concealed: No. 2D finish.

   I. Moist Environment Ducts (Locker rooms, Team Rooms, Showers):

      1. Aluminum duct and fittings."

SECTION 233600 – AIR TERMINAL UNITS:

1. Page 2, paragraph 2.1.A, ADD the following:

   "5. Johnson Controls, Inc."

2. Page 3, paragraph 2.2.A, ADD the following:

   "5. Johnson Controls, Inc."

3. Page 5, paragraph 2.3.A, ADD the following:

   "5. Johnson Controls, Inc."

SECTION 236416 – CENTRIFUGAL WATER CHILLERS:

1. Page 6, paragraph 2.7, ADD the following:

"F. UNIT-MOUNTED VARIABLE-SPEED DRIVE

1. The centrifugal water chiller shall be furnished with a liquid cooled variable speed drive (VSD) as shown on the drawings. The VSD shall be factory mounted on the chiller and shipped completely factory assembled, wired and tested.
2. The VSD will be specifically designed to interface with the centrifugal water chiller controls and allow for the operating ranges and specific characteristics of the chiller. The VSD control logic shall optimize chiller efficiency by coordinating compressor motor speed and compressor inlet guide vane position to maintain the chilled water setpoint while avoiding surge. If a surge is detected, VSD surge avoidance logic will make adjustments to move away from and avoid surge at similar conditions in the future.
3. The VSD efficiency shall be 97% or better at full speed and full load. Fundamental displacement power factor shall be a minimum of 0.96.
4. The VSD shall be solid state, microprocessor based pulse-width modulated (PWM) design. The VSD shall be voltage and current regulated. Output power devices shall be IGBT transistors.
5. Power semi-conductor and capacitor cooling shall be from a liquid cooled heatsink.
6. The centrifugal water chiller shall be furnished with a refrigerant cooled variable speed drive (VSD) to minimize maintenance and maximize cooling efficiency. If a water cooling design is used, especially an open loop condenser water design, a cleanable shell and tube heat exchanger must be supplied. Plate and frame heat exchangers are not allowed. The VSD shall be factory mounted on the chiller and shipped completely factory assembled, wired and tested.
7. The VSDs shall each be furnished in a NEMA 1 metal enclosure having as minimum a short circuit withstand rating of 65,000 amps per UL 508. It will include three phase input lugs plus a grounding lug for electrical connections, output motor connection via factory installed bus bars and all components properly segregated and completely enclosed in a single metal enclosure.
   a. Enclosure shall include a padlockable, door-mounted circuit breaker with shunt trip and AIC rating of 65,000 amps.
   b. The entire chiller package shall be UL/CUL listed.
8. The VSD shall be tested to ANSI/UL Standard 508 and shall be listed by a Nationally Recognized Testing Laboratory (NRTL) as designated by OSHA.
9. Compliance to recommendations stated in IEEE 519-1992.
   a. The VSD design shall include as standard integrated active rectification control system to limit total demand distortion (TDD) in current at the VSD to less than or equal to 5-percent as measured at the VSD input. If optional active filters are used to meet the less than or equal to 5% TDD, then the losses associated with the filter shall be included in the chiller performance on the selection.

10. Input shall be nominal 480 volts, three phase, 60 hertz AC power, ± 10 percent of nominal voltage.
11. Line frequency 38-60 hertz.
12. The VSD shall include the following features:
    a. All control circuit voltages are physically and electrically isolated from power circuit voltage.
    b. 150% instantaneous torque available for improved surge control.
    c. Soft start, adjustable linear acceleration, coast-to-stop.
    d. Adjustable current limiting and UL approved electronic motor overload protection.
    e. Insensitivity to incoming power phase sequence.
    f. VSD and motor protection from the following faults: - Output line-to-line short circuit protection - Line-to-ground short circuit protection - Phase loss at AFD input - Phase reversal / Imbalance - Over-voltage - Under-voltage - Over temperature.
13. The following VSD status indicators shall be available to facilitate startup and maintenance: output speed in Hertz and rpm, input line voltage, input line kW, output/load amps, average current in percent RLA, load power factor, fault, VSD transistor temperature.
14. Service Conditions - at full output power. No external venting or heat exchangers shall be required.
    a. Operating ambient temperature 32°F-104°F (0°C-40°C).
    b. Room ambient up to 95% relative humidity.
    c. Elevation to 3300 feet (1000 meters). For every 300 feet above 3300 feet, the rated output current shall be decreased by one percent.
15. Warranties
    a. The variable speed drive shall be warranted by the manufacturer for a period of twelve months from the date of installation. The warranty shall include parts, labor, travel costs, and living expenses incurred by the manufacturer to provide factory-authorized on-site service."

2. Page 8, paragraph 2.8, ADD the following:

   J. Variable Evaporator Flow Capability:

   1. The chilled water controller of each chiller shall include variable water-flow compensation capability to allow the chiller to respond quickly to accelerating or decelerating water. The variable water-flow control algorithm shall automatically adjust the control gain so that large changes in water-flow rate can be tolerated. The variable water-flow compensation capability shall allow control of the leaving chilled water temperature to within +/- 0.5F at a water flow rate change of 25% per minute and to within +/- 2F at a water flow rate change of 50% per minute.
   2. The chiller shall be equipped from the chiller manufacturer with flow monitoring that shall provide feed-forward and auto-tuning control input to the chiller compressor capacity control. As flow changes are detected, the feed-forward logic shall work in concert with the water temperature control algorithms to initiate a change in compressor capacity proportional to the flow and resultant load change. In addition the change in flow shall cause the capacity controller to tune its control loop PID (proportional-integral-derivative) loop gains for best accuracy and stability.

<u>SECTION 264313 – SURGE PROTECTION DEVICES:</u>

1. Page 4 paragraph 2.3.B, ADD:

   "6. Siemens (AD3) to acceptable manufacturers list."

SECTION 270526 – GROUNDING AND BONDING FOR COMMUNICATIONS SYSTEMS:

1. Page 2, paragraph 3.01.B.1, REVISE per the following:

   "1. Provide a separate ~~insulated~~ bare (AD3) grounding conductor ~~(#2 AWG)~~ (#4/O AWG) (AD3) between each wiring closet's grounding bus bar (TGB) homerun back the main data distribution room grounding bus bar."

2. Page 2, paragraph 3.01.B.2, REVISE per the following:

   " 2. Provide a separate ~~insulated~~ bare (AD3) grounding conductor ~~(#2 AWG)~~ (#4/O AWG) (AD3) between each wiring closet's grounding bus bar (TMGB) to the BGES."

SECTION 272000 – COMMUNCATION/DATA NETWORK:

1. Page 1, paragraph 1.2.A, ADD per the following:

   "12. Provide four (4) analog outlets for fax machine locations directed by owner. Jack and cable to nearest IDF. (AD3)
   13. Provide building entry surge suppression modules in all copper cabling that exits or enters structures. (AD3)
   14. All fiber installed above ceilings shall be armored-type cabling installed below slab does not require armor sheathing. (AD3)"

SECTION 312000 – EARTHWORK

1. 2.1 (A) ADD: ML to the list of satisfactory soil materials
2. 2.1 (B) REMOVE: ML from the list of unsatisfactory soil materials.

SECTION 321123 – SYNTHETIC TURF BASE CONSTRUCTION AND RELATED WORK

1. 3.3 (A) MODIFY: Change the joint overlap to 36 inches from 24 inches.
2. 3.9(A) MODIFY: The maximum line spacing shall read "30' on center for football & 40' on center for baseball".

SECTION 321823.13 – SOFTBALL INFIELDS

1. 1.3 (A) MODIFY: Remove existing text and replace with "Submit samples of pre-mixed sand clay mixture & gradation analysis.
2. 2.1 MODIFY: Remove existing text and replace with "A. Ruckersville Choice Infield Mix as produced by Luck Stone or approved equal. B. Sand/clay amendment: Turface or approved equal."
3. 3.1 (C) MODIFY: Remove existing text and replace with "Infield Areas: This shall be installed as a premixed batch over infield areas. Add 12 tons of Turface, or equal, as approved by the Architect, to the clay and sand mixture on skinned areas."

SECTION 323223 – PRECAST MODULAR BLOCK RETAINING WALL SYSTEM

1. Page 2, paragraph 2.1.A, ADD the following:

   "1. Subject to compliance with the requirements of this specification, retaining walls systems from the following may be considered:
      a. Verti-Block; Gravity Wall Retaining Wall System manufactured by Chandler Concrete Company of Virginia."

SECTION 334100 – STORM DRAINAGE

1. 1.3 (A) ADD: 7. Polypropylene pipe.
2. 2.2 ADD: G. Polypropylene Pipe (PP): Shall conform to the requirements of ASTM F2736-10 and ASTM F2764-10. Gasketed joints shall meet ASTM F477 & ASTM D3212.

CHANGES TO THE DRAWINGS:

DRAWING LS2.1 – LIFE SAFETY PLAN – FIRST FLOOR

1. CHANGE all fire extinguisher bracket symbols to fire extinguisher cabinet symbols.

DRAWING LS2.2 – LIFE SAFETY PLAN – SECOND FLOOR

1. CHANGE all fire extinguisher bracket symbols to fire extinguisher cabinet symbols.

DRAWING C1.12

1. REVISE trench width to 20" at collector pipe. Refer to sketch AD-3 C1.12.

DRAWING C2.02

1. ADD callout to remove existing underground oil tank & any remaining fuel per local & national standards. Refer to sketch AD-3 C2.02.

DRAWING C3.3

1. REVISE layout of sanitary laterals in the area of the loading dock. Refer to sketch AD-3 C3.3.

DRAWING C4.0

1. ADD callout for interior pit drain. REVISE callouts for loading dock trench drains Refer to sketch AD-3 C4.0.

DRAWING C5.2

1. MODIFY the vertical alignment of the waterline in the area of the loading dock to pass under the electrical ductbank. Refer to sketch AD-3 C5.2.

DRAWING C6.5

1. MODIFY note #8 to remove "HDPE" and replace with "Polypropylene Pipe".

DRAWING L1.4 & L1.7

1. ADD callout for benches at student entrance. Refer to sketches AD-3 L1.4 & AD-3 L1.7.

DRAWING A1.0.2 – WATERPROOFING PLANS AND DETAIL

1. Detail 3, DELETE the notes "Geotextile/Bentonite Polymer Waterproofing Membrane" and "Geotextile Faced Composite Drainage Panel" and REPLACE with "Sheet Waterproofing Membrane and Drainage Panel".

DRAWING A1.6.1 – FIELDHOUSE – PLAN & ELEVATIONS

1. Sketch AD3-A6 attached to this addendum is added to this Drawings.

DRAWING A2.1.1 THROUGH A2.1.11

1. In the Floor Plan Keynotes, for Keynote 6 DELETE "Motorized Traveling Bleacher Unit" and REPLACE with "Bleacher Bank".

DRAWING A2.1.4 – FIRST FLOOR PLAN – PART D

1. In room D17 – Office, delete casework on north wall.
2. In room D31. - Resource Officer, ADD west elevation 100/A8.1.3. Refer to Sketch AD3-A8 attached to this addendum.

DRAWING A2.1.5 – FIRST FLOOR PLAN – PART E

1. In the FLOOR Plan Keynotes ADD the following: "27. ROTC Rifle Storage, Refer to Spec Section 11000".
2. In First Floor Plan – Part E, ADD keynote 27 to room Armory – E14. Refer to Sketch AD3-A7 attached to this addendum.
3. In the FLOOR Plan Keynotes ADD the following: "28. ROTC Work Bench, Refer to Spec Section 11000".
4. In First Floor Plan – Part E, ADD keynote 28 to room Armory – E14. Refer to Sketch AD3-A7 attached to this addendum.
5. In First Floor Plan – Part E, ADD keynote 14 to room Training Aid Storage – E13A. Refer to Sketch AD3-A7 attached to this addendum.

DRAWING A2.1.7 – FIRST FLOOR PLAN – PART G

1. In the FLOOR Plan Keynotes ADD the following: "26. Raised Access Floor".
2. In First Floor Plan – Part G, ADD keynote 26 to room Data Center – G29.
3. In First Floor Plan – Part G, ADD east elevation 101/A8.1.3. Refer to Sketch AD3-A8 attached to this addendum.

DRAWING A2.2.5 – PLAN DETAILS

1. DELETE Detail 10 and replace with Sketch AD3-A1 attached to this addendum.

DRAWING A3.0.1 – FINISH SCHEDULE:

1. DELETE and REPLACE with the attached drawing.

DRAWING A7.0.2- TOILET ASSEMBLIES, SCHEDULE AND ENLARGED PLANS:

1. DELETE and REPLACE with the attached drawing.

DRAWING A7.2.1 – ENLARGED FLOOR PLANS:

1. 1. Sketch AD3-A5 attached to this addendum REVISES the music storage system in Rooms G36 and G40.

DRAWING A7.5.2 – ENLARGED FLOOR PLAN

1. In the Cosmetology Equipment Schedule for Item CO-17: Washer under the Remarks columns, CHANGE the specification section from "110000" to "113100".
2. In the Cosmetology Equipment Schedule for Item CO-18: Dryer under the Remarks columns, CHANGE the specification section from "110000" to "113100".

DRAWING A7.7.1 – GYMNASIUM FLOOR PLAN LAYOUT

2. Detail 1, at the northeast corner of the north basketball court, DELETE the mark "AE-01" that is not attached to any drawing information. As a point of clarification, there are two new banks of bleachers in this space identified by mark "AE-01".
3. DELETE Detail 3 and REPLACE with Sketch AD3-A2 attached to this addendum.
4. Detail 1, REFER to Sketch AD3-A3 attached to this addendum which locates the overhead wrestling mat storage assembly in the southwest corner of the gymnasium.
5. ATTACH Sketch AD3-A4 to this Drawing which provides the layout for the two new bleacher banks indicated in Detail 1: Floor Plan –Gymnasium.

DRAWING A7.7.2:

1. DELETE and REPLACE with the attached drawing.

DRAWING A7.8.1 – FORUM PLANS, ELEVATIONS & DETAILS

1. Detail 1, the abbreviation "CPT" is a designation for sheet carpeting. Reference carpet type C-2 in Section 096816.

DRAWING A8.1.2 – CASEWORK ELEVATIONS

1. Detail 61, DELETE the note "Metal Shelving" on the right side of this detail.

DRAWING S1.4:

1. ADD #5@24" wall reinforcing in 8" CMU wall at gridline DM plan south of gridline D4 to intersecting 10" CMU shear wall.

DRAWINGS S2.1, S2.2 and S2.4:

1. ADD W8 beams in plan for window kicker support as indicated in attached drawings AD3-S01, AD3-S02, AD3-S03 and AD3-S04.

DRAWING S2.4:

1. ADD section cuts to framing plan as indicated in attached drawing AD3-S05.

DRAWING S2.5:

1. ADD callout for W14x22 (+31'-7") at stair H01 at gridline A5 between gridlines AA and AC.

DRAWING S2.7:

1. REVISE joist size and spacing as indicated in attached drawing AD3-S06.
2. DELETE and REPLACE beam size on gridline C8 between gridlines CM and CP from W18x35 to W21x50.
3. DELETE and REPLACE beam size on gridline C8 between gridlines CP and CU from W18x40 to W24x55.
4. DELETE and REPLACE beam size on gridline C8 between gridlines CU and CV from W14x22 to W16x36.
5. DELETE and REPLACE beam size on gridline C8 between gridlines CV and CZ from W21x50 to W24x55.
6. DELETE and REPLACE beam size on gridline C8 between gridlines CZ and DB from W14x22 to W24x55.
7. DELETE and REPLACE beam size on gridline C12 between gridlines AJ and CN from W12x19 to W16x26.

DRAWINGS S2.7 AND S2.8:

1. ADD 16KCS2 joists and bracing for ceiling fan support as indicated in attached drawings AD3-S06 and AD3-S07.

DRAWING S2.8:

1. ADD section cuts and text to framing plan as indicated in attached drawing AD3-S08.

2. DELETE and REPLACE beam size on gridline C12 between gridlines DA and BC from W12x19 to W16x26.

DRAWING S2.10:

1. DELETE framing plan note #2.

DRAWING S2.12:

1. ADD moment connection symbols to beams in plan as indicated in drawing AD3-S17.

DRAWING S4.9:

1. DELETE "40LH13" callout from section 20/S4.9.

DRAWING S4.11:

1. REVISE section 7/S4.11 as indicated in attached drawing AD3-S09
2. REVISE section 8/S4.11 as indicated in attached drawing AD3-S10.
3. ADD section 9/S4.11 as indicated in attached drawing AD3-S11.
4. ADD section 10/S4.11 as indicated in attached drawing AD3-S12.
5. ADD section 11/S4.11 as indicated in attached drawing AD3-S13.
6. ADD section 12/S4.11 as indicated in attached drawing AD3-S14.
7. ADD section 13/S4.11 as indicated in attached drawing AD3-S15.
8. ADD section 14/S4.11 as indicated in attached drawing AD3-S16.

DRAWING S5.1:

1. ADD moment connection details as indicated in attached drawings AD3-S18, AD3-S19 and AD3-S20.

DRAWING P2.1.1 – FIRST FLOOR PLAN – PART A

1. At the south wall of Room A22 the fixture marked "?" shall be fixture P-4J.
2. At the wall adjacent to A21, the fixture marked "?" shall be fixture P-5B (bottle filling station).

DRAWING P2.1.2 – FIRST FLOOR PLAN – PART B

1. At the east wall of Room B03 adjacent to Stair B04, the sink fixture marked "P-4A' shall be P-4J.

DRAWING P2.1.8 – FIRST FLOOR PLAN – PART H

1. The vent lines from sinks P-4F that are marked as sanitary vent shall be changed to acid waste.

DRAWING M6.1:

1. Revise “Chilled Water System Schematic” as indicated in attached drawing AD3-M1.

DRAWING E0.1:

1. Added projector system speaker (provided by owner) to COMMUNICATIONS LEGEND. Refer to Sketch AD3-E0.1-1.
2. Revise definition of wall mounted and ceiling mounted speakers to clarify between "IC" intercom and "H" horn. Refer to sketch AD3-E0.1-1.
3. Added general note to say "FOR ALL 120V CIRCUITS GREATER THAN 100' UPSIZE WIRE TO #10 AWG. FOR ALL 277V CIRCUITS GREATER THAN 250' UPSIZE WIRE TO #10 AWG".
4. Added general note to say "ALL 15A AND 20A RECEPTACLES INSTALLED OUTDOORS SHALL BE WEATHER-RESISTANT (WR)."

DRAWING E0.2:

1. Revise sheet per re-issue for addendum #3.

DRAWING E1.1:

1. Revise sheet per re-issue for addendum #3.

DRAWING E1.2:

1. Revise sheet per re-issue for addendum #3.

DRAWING E1.3:

1. Revise Field House per sketches AD3-E1.3-1 & AD3-E1.3-2.
2. Revise Field House Power Plan to move receptacle in FH10 connected to circuit FL-31 down wall to be behind ice maker, revise to make outlet GFCI rated.
3. Revise Field House Power Plan to provide NEMA 6-20R receptacle in FH03 on west wall and connect to circuit FL-39,41
4. Revise Field House Power Plan to relocate receptacle in FH14 from west 2' so that it does not appear in the middle of the doorway.
5. Revise keynote 1 to read "PROVIDE 750 LUMEN BATTERY PACK AND CONNECT TO THE CIRCUIT CONDUCTOR AHEAD OF ALL SWITCHING."

DRAWING E1.4:

1. Revise Field House Riser Diagram per sketch AD3-E1.4-1.

DRAWING E1.5:

1. Revise Electrical – Football Press Box to add camera per sketch AD3-E1.5-1.
2. Untagged receptacles in football field endzones tagged to say "COMBOX".
3. Revise lighting contactor detail to include "NOTE 1: PROVIDE IN FIELD HOUSE ELECTRICAL ROOM."

DRAWING E1.6:

1. Revise Electrical – Baseball Press Box and Softball Press Box per sketch AD3-E1.6-1
2. Revise lighting contactor detail to include "NOTE 1: PROVIDE IN FIELD HOUSE ELECTRICAL ROOM."

DRAWING E1.7

1. Revise lighting contactor detail to include "NOTE 1: PROVIDE IN FIELD HOUSE ELECTRICAL ROOM."

FOR ALL LIGHTING DRAWINGS E2.1.1 THRU 2.7.1:

1. Revise all exterior building mounted lighting circuits to indicate "VIA CONTACTOR" for control purposes. Refer to lighting contactor on Addendum 3 reissue sheet E1.2.

DRAWING E2.1.1:

1. Revise Part A Lighting per sketch AD3-E2.1.1-1.

FOR ALL POWER DRAWINGS E2.1.2 THRU 2.11.2:

1. Revise Part A Power to change keynote 3 from "NOT USED", to be "ROUTE CONDUITS FOR FLOOR BOXES UNDERSLAB TO CEILING VOID IN STORAGE A20A."
2. Add keynote 22 to say "PROVIDE 16"X16"X6" BOX RECESSED IN WALL WITH TWO (2)–2" CONDUIT STUBBED INTO NEAREST ACCESSIBLE CEILING VOID FOR SOUND SYSTEM."

DRAWING E2.1.2:

1. Revise Part A Power per sketch AD3-E2.1.2-1.
2. Revise Part A Power per sketch AD3-E2.1.2-2.

FOR ALL COMMUNICATIONS DRAWINGS E2.1.3 THRU E2.11.3:

1. Revise Part A Comm to change keynote 3 to say "COMMUNICATION JUNCTION BOX IN THE NEAREST IDF."
2. Revise Part A Comm to change keynote 7 conduit size from 1-1/4" up to 2".
3. Revise Part A Comm to change keynote 8 to say "MOUNT AT 1'-2" AFF."

DRAWING E2.1.3:

1. Revise Part A Comm per sketch AD3-E2.1.3-1.

DRAWING E2.2.1:

1. Revise room B16 lighting to be connected to circuit HB2-3.
2. Revise rooms B19 and B21 to be connected to circuit HB2-11.

DRAWING E2.2.2:

1. Revise per sketch AD3-E2.2.2-1.

DRAWING E2.2.3:

1. Revise per sketch AD3-E2.2.3-1.

DRAWING E2.3.1:

1. Revise Part C Lighting in Culinary C20, twenty (20) type A2 fixtures changed to be type A1.

2. Revise Part C Lighting in Storage C20A, C20C and C24 four (4) total untagged fixtures tagged type B1.
3. Revise Part C Lighting outside of Vestibule C19 uncircuited exit sign X2 added to circuit XHA-5.
4. Revise Part C Lighting outside of Vestibule C19 connect three (3) D2 fixtures to circuit HA-19.
5. Revise Part C Lighting outside of Vestibule C29, C31 three (3) total untagged fixtures tagged type B1.
6. Revise Part C Lighting outside of Vestibule C04, three (3) total 2x2 fixtures tagged type A3 revised to be type A4.

DRAWING E2.3.2:

1. Revise Part C Power Classroom C16 (Collaboration Space) to have three (3) floor boxes instead of only one (1) per sketch AD3-E2.3.2-1.

DRAWING E2.3.3:

1. Revise Part C Comm Classroom C16 (Collaboration Space) to have three (3) floor boxes instead of only one (1) per sketch AD3-E2.3.3-1.
2. Revise Part C Comm Classroom C05, C20 and C22 per sketch AD3-E2.3.3-2.
3. Revise Part C Comm Classrooms C23 and C26 per sketch AD3-E2.3.3-3.

DRAWING E2.4.1:

1. Revise Part D Lighting outside of Vestibule D26 connect three (3) D2 fixtures to circuit HB1-17.
2. Revise Part D Lighting room B46 and B47 to be connected to circuit HB2-13.
3. Revise Part D Lighting room D36 to be connected to circuit HB1-5.
4. Revise Part D Lighting rooms D57 and D58 to be connected to circuit HB2-7

DRAWING E2.4.2:

1. Revise Part D Power Admin D03 per sketch AD3-E2.4.2-1.

DRAWING E2.4.3:

1. Revise Part D Comm D03, D50 and D54 Gov Physics per sketch AD3-E2.4.3-1.

DRAWING E2.5.2:

1. Revise Part E Power indicated circuit number for two (2) receptacles per sketch AD3 –E2.5.2-1.

DRAWING E2.6.1:

1. Revise Part F Lighting F05 and F06 four (4) untagged fixtures tagged as type B1.
2. Revise Part F Lighting F07 type A1 fixture revised to be type A2.
3. Revise Part F Lighting F11 four (4) untagged fixtures revised to be type P3.

DRAWING E2.6.2:

1. Remove wrestling mat roller connection to LF-41 and tag as "SPARE" in panelboard, remove disconnect.
2. Revise Part F Power per sketch AD3-E2.6.2-1.

DRAWING E2.7.2:

1. Revise Part G Power per sketch AD3-E2.7.2-1.

DRAWING E2.7.3:

1. Add keynote to G09 Stage per sketch #

DRAWING E2.8.1:

1. Revise Part H Lighting Corridor H02 twelve (12) type A1 fixtures revised to be type A2.
2. Revise Part H Lighting Corridor H07 twelve (12) 12' long untagged fixtures tagged type S4, two (2) 4' long untagged fixtures tagged S1.
3. Revise Part H Lighting Prep H20 three (3) type A1 fixtures revised to type A2, two switch mount occupancy sensors revised to two three way switches, add ceiling mounted occupancy sensor in center of room.
4. Revise Part H Lighting Prep H09 five (5) type A1 fixtures revised to type A2, two switch mount occupancy sensors revised to two three way switches, add ceiling mounted occupancy sensor in center of room.
5. Revise Part H Lighting Prep H11 add ceiling mounted occupancy sensor in center of room.
6. Revise Part H Lighting Prep H18 add ceiling mounted occupancy sensor in center of room.

DRAWING E2.9.1:

1. Revise Part J Lighting Corridor J01 twenty-one (21) type A1 fixtures revised to be type A2.

DRAWING E2.9.2:

1. Revise Part J Power Classroom J09 and J16 per sketch AD3-E2.9.2-1.

DRAWING E2.9.3:

1. Revise Part J Comm Classroom J09 and J16 per sketch AD3-E2.9.3-1.

DRAWING E2.10.1:

1. Revise Part K Lighting Corridor J01 twelve (12) type A1 fixtures revised to be type A2.
2. Revise Part K Lighting Prep K05 add ceiling mounted occupancy sensor in center of room.
3. Revise Part K Lighting Prep K12 add ceiling mounted occupancy sensor in center of room.
4. Revise Part K Lighting Resource K17 five (5) untagged fixtures tagged A1.
5. Revise Part K Lighting Resource K18 twelve (12) untagged fixtures tagged A1.
6. Revise Part K Lighting Resource K19 twelve (12) untagged fixtures tagged A1.

DRAWING E2.10.3:

1. Revise Part K per sketch AD3-E2.10.3-1.

DRAWING E2.11.1:

1. Revise Part L Lighting Corridor J01 ten (10) type A1 fixtures revised to be type A2.
2. Revise Part L Lighting Corridor L16 four (4) type A1 fixture revised to be type A2.

DRAWING E3.1:

1. Revise sheet per re-issue for addendum #3.

DRAWING E3.4.1:

1. Revise per sketch AD3-E3.4.1-1.

DRAWING E3.4.2:

1. Revise per sketch AD3-E3.4.2-1.

DRAWING E4.1:

1. Revise sheet per sketch AD3-E4.1-1.

2. Revise sheet per sketch AD3-E4.1-2.

DRAWING E4.2:

1. Revise per sketch AD3-E4.2-1.

DRAWING E4.3:

1. Revise sheet per re-issue for addendum #3.

DRAWING E4.4:

1. Revise recessed gymnasium equipment control panel detail text from "CURTAIN DIVIDER SOUTH" to read "OVERHEAD PARTITION SOUTH".

DRAWING E5.2:

1. Revise per sketch AD3-E5.2-1.
2. Revise MDS1 and MDS2 to include AMPS SYMM. To be 65KAIC.

DRAWING E5.3:

1. Revise empty space in panel XLE circuit 16 to "SITE LTG PHOTOCELL" and provide 20A 1-Pole circuit breaker.

DRAWING E5.5:

1. Revised 20A spare circuit breaker #69 from spare to "REC TV AREA A24" calculated load shall be 0.18KVA.
2. Revised 20A spare circuit breaker #71 from spare to "REC TV AREA A24" calculated load shall be 0.18KVA.
3. Revised 20A spare circuit breaker #77 from spare to "REC TV AREA A24" calculated load shall be 0.18KVA.
4. Revised 20A spare circuit breaker #79 from spare to "REC TV AREA A24" calculated load shall be 0.18KVA.
5. Revised 20A spare circuit breaker #81 from spare to "REC TV AREA A24" calculated load shall be 0.18KVA.
6. Revised 20A spare circuit breaker #83 from spare to "REC TV AREA A24" calculated load shall be 0.18KVA.
7. Revised 20A spare circuit breaker #10 from spare to "REC TV AREA A24" calculated load shall be 0.18KVA.
8. Revised 20A spare circuit breaker #26 from spare to "FORUM INSIDE SHADES" calculated load shall be 1.00KVA.
9. Revised 20A spare circuit breaker #28 from spare to "FORUM OUTSIDE SHADES" calculated load shall be 1.00KVA.

DRAWING E5.7:

1. Revised 20A spare circuit breaker #60 from spare to "REC D03" calculated load shall be 0.18KVA.

DRAWING E5.10:

1. Revise panel LF circuit 41 from 20A "WRESTLING MAT ROLLER" to be "SPARE".
2. Revise panel LF circuit 57 from 20A "CURTAIN DIVIDER" to be "SPARE".

3. Revise panel LF circuits 36, 38, 40 from three (3) 1-Pole "SPARE"s and provide one (1) 3-Pole 20A circuit breaker to be "WRESTLING MAT ROLLER".
4. Revise panel HF circuits 21, 23, 25 from three (3) 1-Pole "SPARE"s and provide one (1) 3-Pole 20A circuit breaker to be "OVERHEAD PARTITION SOUTH".

DRAWING E5.11:

1. Revise sheet per re-issue for addendum #3.

END OF ADDENDUM NO. 3.

HURT & PROFFITT
INCORPORATED

ASBESTOS ABATEMENT SPECIFICATION

Site Designation:
The New Heritage High School Project
Wards Ferry Road
Lynchburg, Virginia
H&P Project Number: 20140072

PREPARED FOR:
LYNCHBURG CITY SCHOOLS
Mr. Richard Thompson
Director of Construction
John Capron Road
Lynchburg, Virginia 24501

PREPARED BY:

Walter C. Nixon
VA DPOR Asbestos
Project Designer License
No. 3305001148
Exp: 3.31.2014

2524 LANGHORNE ROAD
LYNCHBURG, VA 24501
800-242-4906 TOLL FREE
434-847-7796 MAIN
434-847-0047 FAX
www.HandP.com

TABLE OF CONTENTS – DESIGN PLAN

PART I – GENERAL

1.1 Scope of Work
1.2 Contractor Responsibilities
1.3 Personal Protective Equipment
1.4 Project Monitoring & Air Sampling

PART II – SUBMITTALS

2.1 Pre-Abatement Submittals
2.2 Abatement Submittals
2.3 Post-Abatement Submittals
2.4 Close-Out Documentation

PART III – PRODUCTS

3.1 Equipment
3.2 Miscellaneous Products

PART IV – EXECUTION

4.1 Decontamination Enclosures
4.2 Utilities
4.3 Heating, Ventilation, and Air Conditioning Systems (HVAC)
4.4 Critical Barriers
4.5 General Asbestos Handling & Cleaning Requirements
4.6 Asbestos Waste Disposal
4.7 Inspections
4.8 Project Monitoring & Air Sampling

Appendix A: DPOR Project Designer License

Asbestos Abatement and Disposal

PART I – GENERAL

1.1 Scope of Work

A. Asbestos abatement will be conducted prior to the demolition of the following structures owned and operated by the City of Lynchburg Schools.

127 Aaron Place:

- **Non-friable Asbestos-Containing Stainless Steel Sink (4 Square Feet)**
- **<1% Asbestos-Containing Drywall and Joint Compounds Throughout (Must be removed in accordance with OSHA Regulations)**

2007 Wards Ferry Road:

- **Non-friable Asbestos-Containing Floor Sheeting (200 Square Feet)**
- **<1% Asbestos-Containing Interior Window Glaze (Basement) (Must be removed in accordance with OSHA Regulations)**

3001 Wards Ferry Road:

- **Asbestos-Containing Floor Sheeting and Mastic (200 +/- Square Feet)**

3010 Wards Ferry Road:

- **Asbestos-Containing Floor Sheeting (180+/- Square Feet)**

HERITAGE HIGH SCHOOL FACILITY:

- **Friable Asbestos-Containing Metal Clad Exterior and Interior Wall Systems (100,000 +/- Square Feet)**
- **Non-Friable Presumed Asbestos-Containing Cementitious Laboratory Tables**
- **Non-Friable Presumed Asbestos-Containing Cementitious Laboratory Countertops / Sinks**
- **Non-Friable Presumed Asbestos-Containing Chalkboards**
- **Non-Friable Asbestos-Containing Fume Hoods**
- **Non-Friable Asbestos-Containing Stainless Steel Sinks**

The estimated quantities and locations of materials to be removed must be field verified by the Contractor prior to bid.

B. Asbestos-Containing Materials Survey Reports, 127 Aaron Place, 2007 Wards Ferry Road, 3001 Wards Ferry Road, 3010 Wards Ferry Road and the Heritage High School Facility all located in Lynchburg, VA; Hurt & Proffitt, February 2014 and past AHERA inspections with all updates.
C. The following will apply at all times for each portion of the asbestos removal process for all parts herein:

Code of Federal Regulation

1. OSHA 29 CFR Part 1910.134-Respiratory Protection
2. OSHA 29 CFR Part 1910.145-Accident Prevention
3. OSHA 29 CFR Part 1926.1101–Asbestos Contractor
4. OSHA 29 CFR Part 1910.1200-Hazard Communications
5. USEPA 40 CFR Part 61-Asbestos National Emission Standards For Hazardous Air Pollutants
6. USEPA 40 CFR Part 763-Asbestos Abatement Projects Rule
7. USEPA Asbestos Hazard Emergency Response Act (AHERA)

Virginia Administrative Codes and Regulations

1. VSWMR 9 VAC 20-80-640-Disposal of Special Waste
2. VA DOLI-Title 40.1-Chapter 1-Department of Labor and Industry (40.1 thru 40.1-11.1)
3. VA DOLI-Title 40.1-Chapter 3-Protection of Employees (40.1-22 thru 40.1-51.4:5)
4. VA DOLI-Title 40.1-Chapter 3.2-Asbestos Notification (40.1-51.20 thru 40.1-51.22)
5. VA DOLI-Title 40.1-Chapter 3.3-Virginia NESHAP Act (40.1-51.23 thru 40.1-51.41)
6. Virginia Solid Waste Management Regulations (VSWMR)- 9-VAC-20-80-200
7. VSWMR-9 VAC 20-80-640
8. Department of Professional and Occupational Regulation- Virginia Asbestos Regulation Part I 18VAC15 20-10-880

NOTE:
Work practices conducted on-site shall be in strict compliance with this project design specification, state, federal, and local regulations. When conflicts occur between the project design documents and applicable state, federal, and/or local regulations, the most stringent course of action shall apply.

B. Wet methods shall be utilized to minimize airborne fiber concentrations.

C. The Contractor shall conduct all work in accordance with state, federal, and local regulations. Additionally, the Contractor shall comply with the design plans and specifications in this document.

D. The Contractor shall supply an adequate number of asbestos abatement workers on-site on a daily basis. This is to ensure the timely completion of this phase of the project. Subcontractors may not be utilized on this project without the written consent of Lynchburg City Schools or their designee.

E. The Contractor accepts that multiple means of clearance criteria may be utilized for final clearance criteria. Visual inspections, PCM air sampling, and AHERA TEM air sampling will be utilized on this project. The Contractor understands that their base bid is to include all necessary labor, equipment, etc. to successfully abate and clean each work area for re-occupancy by other trades.

F. The Contractor shall protect any ancillary proximate areas where abatement related activities shall be performed (this also includes damage that may be incurred in the building). Any damage incurred by the Contractor or by abatement related activities, shall result in the Contractor being held liable for all costs related to the restoration of damaged areas to their original condition. There shall be no costs incurred by Lynchburg City Schools for any restoration efforts other than the planned areas of re-construction as part of the project, ie: windows to be replaced as part of the overall project scope.

1.2 Contractor Responsibilities

The selected asbestos abatement Contractor shall be responsible for:

A. Performing work in accordance with applicable local, state and federal regulations pertaining to asbestos abatement work. These regulations include, but are not limited to, DPOR laws of Virginia, the United States Environmental Protection Agency (US EPA) Asbestos Hazard Emergency Response Act (AHERA), the National Emission Standards for Hazardous Air Pollutants (NESHAPs), the Occupational Safety and Health Administration (OSHA), and local regulations.

B. Providing all labor, equipment, materials, and supervision to complete the project in a professional, safe, and timely fashion.

C. Providing supervisors and workers who are competent, trained, and medically fit to conduct asbestos abatement work.

D. Completing the project as specified in these design plans & specifications. The Contractor accepts that the areas will not be considered successfully abated, until at a minimum, a final visual inspection proves that each work area(s) are considered safe for re-occupancy by other trades. Air monitoring will be performed for each interior abatement location as required by Virginia, EPA guidelines.

E. Packaging, transporting, and disposing of all asbestos and asbestos contaminated materials, within all applicable State, Federal, and Local regulations.

F. Ensuring building security during the course of the asbestos removal, so that unauthorized personnel may not enter regulated work areas and subsequently the building.

G. Providing emergency plans and emergency telephone numbers to Lynchburg City Schools and on-site abatement personnel.

H. Obeying the owner's policies and procedures pertaining to work on-site.

I. Complying with the contractual requirements set forth by Lynchburg City Schools and this specification.

J. Notifying the Virginia Department of Labor & Industry and the US Environmental Protection Agency (if applicable) of the planned start date(s) of abatement activities and all subsequent changes in schedule as required by both the Virginia Administrative Code (VAC) and The Asbestos Hazard Emergency Response Act (AHERA) for friable removal of asbestos-containing building materials; which includes the payment of applicable notification fees.

K. Ensuring compliance with OSHA regulations pertaining to worker safety and health, including worker protection to weather conditions.

1.3 Personal Protective Equipment

A. The Contractor (Employer) shall be responsible for providing their personnel with adequate personal protective equipment (PPE) to perform the work on this project, as per federal and state regulations.

B. The Contractor (Employer) will be responsible for collecting OSHA personal asbestos air samples for their workers on this project. Representative samples shall be taken daily on ¼ of the workforce and sample results shall be posted in the personal decontamination unit within 48 hours of collection. The Contractor is responsible for providing their employees with adequate respiratory protection based upon the type of asbestos minerals identified within the H&P asbestos survey results received. Both eight (8) hour full day monitoring as well as short term thirty (30) minute excursion monitoring shall be performed each day asbestos removal activities are being performed.

C. "Street" clothing is not permitted in the work area(s) at any time.

D. With the use of amended water during asbestos abatement project, "flooring" will become slippery. The Contractor shall provide their workers with non-skid footwear on this project.

E. The Contractor is responsible for providing the building owner's authorized representatives, the environmental consultant, and state and/or federal inspectors with personal protective equipment. This may include some or all of the following: protective clothing, respirators, HEPA cartridges, hardhats, gloves, eye protection, and rubber disposable boots. Those persons that have passed an OSHA approved medical surveillance and respiratory fit test may don a MSHA/NIOSH approved HEPA equipped respirator prior to entering the regulated/designated work areas.

1.4 Project Monitoring & Air Sampling

A. The Contractor **shall not** include the costs of asbestos abatement project monitoring and final clearance air sampling in their bid. Lynchburg City Schools will hire under a separate contract the third party asbestos project monitoring firm, which is licensed by the Virginia DPOR, as required by the USEPA regulations.

PART II – SUBMITTALS

2.1 Pre-Abatement Submittals

Upon being selected by Lynchburg City Schools to perform asbestos abatement activities, the Contractor will be responsible for the following submissions (3 copies of each) within 48 hours:

A. Copies of both Virginia Department of Labor and Industry (VA DOLI) USEPA Notifications to conduct asbestos work at each of the listed site properties as required by both Virginia DOLI and US EPA regulations for projects exceeding the 10 lf / 10 sf / 10 cf or 260 lf / 160 sf / 35 cf rule.

B. Copies of Virginia Waste Transporter Permits and the location of the landfill where the asbestos waste will be transported to.

C. Copy of the waste manifest to be used on this project.

D. Copy of a local wastewater discharge permit. If no permit is to be used, a statement indicating how wastewater will be disposed of on this project will be required.

E. Material Safety Data Sheets (MSDS) for all chemicals and/or solvents to be utilized on-site.

F. Manufacturers certifications for all equipment to be used on the project, ie: HEPA filtration units and/or HEPA vacuums.

G. Copy of the company's Hazard Communication Program, Medical Surveillance Program and Respiratory Protection Program, and Site Emergency Response Plan.

H. Copy of notification letters to the local fire and rescue squads, that asbestos abatement work will be conducted at the site.

I. Copies of the emergency phone numbers that will be posted on the personal decontamination unit.

J. Copies of the following workers certifications;

1. Virginia DPOR licenses for all personnel.

2. Certificates of training for all personnel.

3. Medical Evaluations Forms to show suitability to wear respiratory protection for all personnel.

4. Fit Test Forms to show respirator suitability.

K. Proposed Supervisor on the project, including a list of at least three (3) other projects that the Supervisor has worked on in similar scope.

2.2 Asbestos Abatement Submittals

The Contractor shall be responsible for providing Lynchburg City Schools and the third party monitor / environmental consultant with the following submittals;

A. Copies of OSHA personal air samples. Note – Lynchburg City Schools and their environmental consultant are not responsible for the interpretation of these results, the intent is to prove that the abatement Contractor is taking these required samples only.

B. A daily list of the personnel on-site accompanied with their Virginia DPOR Licenses.

C. The supervisor's daily log book that documents the checking of critical barriers and the cleaning of the decontamination unit(s) at the beginning and end of each shift, as required by 29 CFR 1926.1101.

D. An account of any asbestos handling air samples that were greater than 0.01 f/cc according to phase contrast microscopy (PCM) and the measures taken to clean the proximate area (if necessary).

2.3 Post Abatement Submittals

A. Copies of waste manifests and/or bill of lading for every waste shipment from the site project.

B. Any other submittal that Lynchburg City Schools and/or their environmental consultant requests.

2.4 Close-Out Documentation

A. Lynchburg City Schools will be responsible for ensuring that the Contractor has met all the contractual obligations to close-out this project.

PART III - PRODUCTS

3.1 Equipment

The Contractor shall be responsible for the following:

A. Providing all equipment necessary to complete the project.

B. Providing only safe and reliable equipment to the work site.

C. Providing personal protective equipment to all persons working on-site.

D. Providing air filtration devices and vacuums that are HEPA exhausted.

E. Utilizing barrier tape and danger signs to keep unauthorized personnel away from the work area. The perimeter of the work area at ground level, the decontamination units, and waste dumpster shall all be properly demarcated utilizing barrier tape and signage. Danger signs shall contain the following language as required by EPA AHERA and OSHA: (See note on Asbestos Abatement Design Drawing)

DANGER
CONTAINS ASBESTOS FIBERS
AVOID CREATING DUST
CANCER AND LUNG DISEASE HAZARD

F. Utilizing amended water to minimize airborne dust concentrations in the work area(s).

G. Utilizing 6 mil polyethylene sheeting for the construction of asbestos work areas, 6 mil polyethylene sheeting for decontamination units, and the lining of waste trailers.

H. Utilizing 6 mil polyethylene bags for the disposal of all waste.

I. Utilizing duct tape (or approved equivalent) to seal polyethylene sheetings and bags.

J. Utilizing safe electrical power cords throughout the site.

K. Utilizing Ground Fault Interrupters (GFI's) or Ground Fault Circuit Interrupters (GFCI's) on all power sources.

L. Any power tools utilized shall be properly HEPA exhausted, as required by 29 CFR 1926.1101.

3.2 Miscellaneous Products

A. Any miscellaneous products not covered in Subpart 3.1 of this section, must have the approval of Lynchburg City Schools and/or their designated representative in writing, prior to use on-site.

B. Any miscellaneous products approved of and brought to site, must be accompanied by manufacturer's product information and/or MSDS's. This information must be submitted to Lynchburg City Schools and/or their environmental representative.

PART IV – EXECUTION

4.1 Decontamination Enclosures

A. A decontamination enclosure, which meets the requirements of 29 CFR 1926.1101, shall be constructed, where necessary and deemed adequate by the onsite Project Monitor, **prior to the commencement of any work area preparation**.

B. The personal decontamination unit shall be equipped with one shower per 6 full shift abatement workers.

C. All decontamination units shall;

1. Meet all requirements of 29 CFR 1926.1101.

2. Be cleaned at the beginning, during, and end of each work shift. Dirt and/or debris in the decontamination unit shall not be permitted.

3. Collect and filter wastewater in accordance with Department of Environmental Quality and US EPA requirements.

4.2 Utilities

A. Lynchburg City Schools shall not be responsible for providing electrical power to the Contractor on this project unless otherwise agreed upon prior to project start.

B. The Contractor shall be responsible for coordinating the shutdown of electrical power to each work area(s), ie: Lock Out / Tag Out. In the event that the

power may not be turned off, all power sources shall be wrapped in three individual layers of fire retardant 6 mil polyethylene sheeting and labeled "DANGER, LIVE ELECTRIC".

C. Lynchburg City Schools will not be responsible for providing the Contractor with a water supply on this project unless otherwise agreed upon.

D. The Contractor shall be responsible for the maintenance of all electrical cords and water hoses, and keeping them in a secure location to prevent unnecessary tripping hazards.

4.3 Heating, Ventilation, and Air Conditioning Systems (HVAC)

A. The Contractor shall be responsible for coordinating any HVAC shutdown and isolation with Lynchburg City Schools personnel.

4.4 Critical Barriers

A. Upon completion of the pre-cleaning, the Contractor shall be responsible for the construction of critical barriers that conform to CFR 1926.1101 on the interior of each window unit.

B. Two layers of 6 mil polyethylene sheeting shall be utilized to cover and/or seal the interior of each window unit, doors, openings, drains, ducts, corridors, etc. to isolate the work area(s) from other interior areas of each building, not part of the regulated / designated work area(s). Asbestos danger tape shall be hung and maintained throughout the removal procedures to illustrate the location of the regulated work area.

C. The Contractor shall be responsible for the;

a. Monitoring of critical barriers during the abatement process to ensure that the critical barriers remain in place.

b. Maintaining the Asbestos Danger tape during the abatement process to ensure the work areas are intact until final clearance is complete for each work area.

4.5 General Asbestos Handling & Cleaning Requirements

A. Asbestos shall be abated utilizing wet methods only. If possible it is required that each ACM be removed intact and wrapped in two (2) layers of polyethylene sheeting or bagged in accordance with OSHA guidelines.

B. Dry removal, sweeping, wire brushing, removal methods utilizing pressurized water or air, or other inappropriate asbestos abatement techniques will not be permitted.

C. Loose waste shall be immediately bagged and be transported to the waste decontamination enclosure. The waste bags shall then be cleaned in the waste decontamination enclosure, double bagged, labeled with a generator label, and transported to the waste dumpster, trailer, etc.

D. The Contractor shall not allow asbestos debris and/or waste to accumulate inside the work area(s). Visible dust and debris will not be tolerated , the work areas shall be wet wiped and HEPA vacuumed continually during abatement activities to minimize asbestos fiber release.

E. During interior abatement activities, waste bag transfer shall take place inside a cart that has been lined with two layers of 6 mil polyethylene. This cart shall be covered by polyethylene during any waste transfer activities and be labeled with an approved asbestos danger sign/label.

F. Workers will not be required to wear PPE during work area preparation unless asbestos abatement work is being performed on another part of the same project. PPE will be required during asbestos abatement activities, cleaning, and during any other work area activities until final air clearance criteria has been achieved.

4.6 Asbestos Waste Disposal

A. The Contractor shall ensure that all asbestos-containing waste is deemed "adequately wet", in accordance with EPA definition prior to being wrapped and/or bagged for disposal.

B. Bags, drums, or other acceptable packaging materials used for the transport of asbestos-containing waste shall be labeled as asbestos-containing and have affixed upon it a waste generator tag/label.

C. Two 6 mil polyethylene bags or sheetings shall be utilized for the disposal of all asbestos-containing wastes generated as part of the asbestos abatement project.

D. Loose waste shall be single-bagged in the work area(s). The waste bags shall be transported to the waste decontamination unit where it shall be cleaned, double bagged, labeled, and immediately transported to the waste dumpster, trailer, or vehicle for disposal. All polyethylene sheeting utilized throughout each abatement work area as part of the window removal process is considered loose asbestos-containing waste. Removal of the interior polyethylene window critical barriers will not be allowed until visual clearances and interior TEM air clearances have proven that the work area(s) are free to be re-occupied by other trades.

E. A daily count of waste bags and/or wrapped window units shall be calculated by the Asbestos Abatement Supervisor. This count shall be given daily to the onsite Project Monitor.

F. All wastes shall be sent to an approved and licensed landfill that accepts friable asbestos-containing wastes. Waste manifests shall accompany all waste that leaves site. Copies of the waste manifests shall be submitted to Lynchburg City Schools within 72 Hours of leaving site, illustrating delivery to the waste facility/landfill.

G. Waste vehicles used for the transport of asbestos shall bear all appropriate licenses, labels and/or placards in accordance with US DOT requirements. Waste vehicle drivers must have at a minimum 2 hour OSHA asbestos-awareness training prior to transporting asbestos waste from the site.

4.7 Inspections

A. The Contractor shall not interfere, impede, or delay any inspections by Lynchburg City School's designated representative(s), the Project Monitor, and/or State, Federal, or Local Inspectors.

B. The Contractor shall request inspections at the following intervals;

1. Upon completion of the decontamination unit(s).

2. Upon completion of the preparation of the work area(s), prior to removal / abatement start.

3. Upon completion of the removal of asbestos-containing materials and presumed asbestos-containing materials.

4. Upon completion of asbestos abatement work area teardown activities.

4.8 Project Monitoring and Air Sampling

A. The Contractor shall not include the costs of project monitoring and/or air sampling in their bid.

B. Lynchburg City Schools, under separate contract has selected their third party onsite Project Monitoring / Air Sampling firm.

C. The onsite Project Monitor / Air Sampling Technician will be responsible for the following;

1. Visual inspections of work area preparation completion, asbestos abatement completion and cleanliness in accordance with ASTM E11368-05 *Standard Practice for Visual Inspection of Asbestos Abatement.*

2. Conducting daily work-in-progress (WIP) environmental air sampling during the asbestos abatement process to ensure asbestos fibers are not entering the school building or leaving the designated work area(s).

3. Providing daily Contractor oversight to ensure Contractor compliance with the laws & regulations governing asbestos abatement procedures in Virginia, in accordance with this specification and the AHERA regulations.

4. Collecting PCM and TEM air samples inside the buildings or in each work area at the completion of removal activities utilizing aggressive air sampling techniques in accordance with the US EPA AHERA regulations and NIOSH 7400 methodologies. The final clearance air sample event(s) will be utilized to ensure asbestos abatement activities are complete following the visual inspection(s).

D. The Contractor accepts the fact the Project Monitor has been retained by Lynchburg City Schools to oversee the asbestos abatement projects. Lynchburg City Schools has authorized the Project Monitor to stop the Contractor's work, if in their judgment, there is a risk to the health & safety of building occupants, abatement workers and/or the environment due to the Contractor's actions and/or the Contractor is not following the contractual design specifications and all applicable laws. Work shall only be permitted to commence if allowed by Lynchburg City Schools or their environmental consultant and corrective actions have taken place. The Contractor acknowledges that it is their responsibility to follow all applicable laws pertaining to asbestos abatement and the job specifications, and failure to do so may result in lost time and/or dismissal from the site at no cost to Lynchburg City Schools or their environmental consultant. The Contractor shall not be compensated for any lost time, labor, materials, etc., due to inappropriate actions.

Appendix A

2524 LANGHORNE ROAD
LYNCHBURG, VA 24501
800-242-4906 TOLL FREE
434-847-7796 MAIN
434-847-0047 FAX
www.HandP.com

HURT & PROFFITT INCORPORATED

DEPARTMENT OF PROFESSIONAL AND OCCUPATIONAL REGULATION
COMMONWEALTH OF VIRGINIA

9960 Mayland Dr., Suite 400, Richmond, VA 23233
Telephone: (804) 367-8500

EXPIRES ON
03-31-2013

NUMBER
3305 001148

VIRGINIA ASBESTOS LICENSE
PROJECT DESIGNER LICENSE

WALTER CHRISTOPHER NIXON
175 SAGE LN

MADISON HEIGHTS, VA 24572

Gordon N. Dixon, Director

ALTERATION OF THIS DOCUMENT, USE AFTER EXPIRATION, OR USE BY PERSONS OR FIRMS OTHER THAN THOSE NAMED MAY RESULT IN CRIMINAL PROSECUTION UNDER THE CODE OF VIRGINIA.

(SEE REVERSE SIDE FOR NAME AND/OR ADDRESS CHANGE)

2524 LANGHORNE ROAD
LYNCHBURG, VA 24501
800-242-4906 TOLL FREE
434-847-7796 MAIN
434-847-0047 FAX
www.HandP.com

SECTION 105626 – MANUAL MOBILE STORAGE SHELVING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Provisions of the Contract and of the Contract Documents apply to this Section.

1.2 SUMMARY

A. This Section includes the following:
   1. Mechanically-assisted, carriage-mounted high-density mobile storage shelving units, support rails, fabrication, and installation including leveling of support rails.
   2. 4-Post metal Shelving

B. Related Work, Not Furnished:
   1. Finish floor covering materials and installation on raised floors and ramps.
   2. Structural floor system capable of supporting live and dead loads required by prevailing building codes, including rolling loads of storage units to be installed.

C. Related Sections:
   1. Sections in Division 9 – Finishes, relating to finish floor and base materials.

1.3 REFERENCES

A. American National Standards Institute (ANSI) Standards:
   1. Applicable standards for fasteners used for assembly.

B. American Society for Testing and Materials (ASTM) Standards:
   1. Applicable standards for steel materials used for fabrication.

C. American Institute of Steel Construction (AISC) Standards:
   1. Applicable standards for steel materials used for fabrication.

1.4 SYSTEM DESCRIPTION

A. General: The system consists of manufactured storage units mounted on manufacturer's track-guided carriages to form a compact storage system. System design permits access to any single aisle by manually moving units until the desired aisle is opened. The carriage/rail system provides uniform carriage movement along the total length of travel, even with unbalanced loads.

B. Carriage System Design and Features: The carriage system consists of a formed structural steel frame with machined and balanced wheels riding on steel rails surface mounted to the floor. Rails shall be types selected by the manufacturer to ensure smooth operation and self-centering of mobile storage units during travel without end play or binding. Rail types, quantities and spacing shall be selected by the manufacturer to suit installation conditions and requirements. All bearings used in the drive mechanism shall be permanently shielded and lubricated.

C. Movement Controls: Triple or single arm operating wheels with rotating hand knobs shall be provided on the accessible (drive) ends of shelf units, centered on the end panel, located 40 inches (1051MM) from the base of each unit to permit units to be moved to create a single aisle

opening. Turning the handle transmits power through chain drive to drive wheels on each carriage.

D. Drive System: The system shall be designed with a positive type mechanically-assisted drive which minimizes end play, ensures there is no play in the drive handle, and that carriages will stop without drifting.

1. System shall include a chain sprocket drive system for each movable carriage to ensure that carriages move uniformly along the total length of travel, even with unbalanced loads. All system components shall be selected to ensure a smooth, even movement along entire carriage length. Drive system gearing shall be designed to permit 1 lb. of force applied to drive handle to move a minimum of 4,000 lbs. of load.
2. A tensioning device shall be provided on each chain drive with provision for adjusting tension without removing end panels.
3. All bearings used in drive mechanism shall be permanently shielded and lubricated.

E. Safety Features:

1. Color-coded visual indicators shall provide verification that carriages are in a locked or unlocked mode.
2. A single safety lock button, mounted on each operating wheel hub, will permit moving a carriage in either direction to create a new access aisle when pulled out (unlocked), or locking the carriage when pushed in.

F. Finishes:

1. Fabricated Metal Components and Assemblies: Manufacturer's standard powder coat paint finish.
2. End Panels and Back Panels, Accessible Ends: Plastic laminate, manufacturer's standard low pressure textures and patterns.

1.5 PERFORMANCE REQUIREMENTS

A. Design Requirements:

1. Limit overall height to 84 inches unless noted otherwise.
2. Verify proper clearances maintained for sprinkler heads above shelving units, if not met additional sprinkler heads may be required.
3. Storage is not permitted 18 inches below the operating height of the sprinkler defectors.
4. Limit overall length, depth, and number of levels of shelving to dimensions indicated on Drawings.
5. Include Dual Access Control where noted on drawings.

B. Ease of Movement: Provide mechanically-assisted units capable of being moved by exerting a maximum horizontal force of 5 pounds on the operating wheel.

C. Seismic Performance: Provide high-density mobile storage shelving system capable of withstanding the effects of seismic motions determined according to ASCE 7, "Minimum Design Loads for Buildings and Other Structures": Section 9.6, "Earthquake Loads" for the Seismic Design Category and other seismic data indicated on Structural Drawing S01.

1.6 SUBMITTALS

A. Product Data: Submit manufacturer's product literature and installation instructions for each type of shelving, track and installation accessory required. Include data substantiating that products to be furnished comply with requirements of the contract documents.

B. Shop Drawings: Show fabrication, assembly, and installation details including descriptions of procedures and diagrams. Show complete extent of installation layout including clearances, spacings, and relation to adjacent construction in plan, elevation, and sections. Indicate clear exit and access aisle widths; access to concealed components; assemblies, connections, attachments, reinforcement, and anchorage; and deck details, edge conditions, and extent of finish flooring within area where units are to be installed.

1. Show installation details at non-standard conditions. Furnish floor layouts, technical and installation manuals for every unit shipment with necessary dimensions for rail layout and system configuration at the Project site. Include installed weight, load criteria, furnished specialties, and accessories.

2. Provide layout, dimensions, and identification of each unit corresponding to sequence of installation and erection procedures. Specifically include the following:

a. Location, position and configuration of tracks on all floors.

b. Plan layouts of positions of carriages, including all required clearances.

c. Details of shelving, indicating method and configuration of installation in carriages.

3. Provide location and details of anchorage devices embedded or fastened to substrates.

4. Provide installation schedule and erection procedures to ensure proper installation.

C. Color Samples: For units with factory-applied color finishes provide minimum 3 inch (76MM) square example of each color and texture on actual substrate for each component to remain exposed after installation.

D. Selection Samples: For initial selection of colors and textures, submit manufacturer’s color charts, showing full range of colors and textures available.

E. Warranty: Submit draft copy of proposed warranty for review.

F. Maintenance Data: Provide in form suitable for inclusion in maintenance manuals for mobile storage units. Data shall include operating and maintenance instructions, parts inventory listing, purchase source listing, emergency instructions, and related information.

1. Submit manufacturer's instructions for proper maintenance materials and procedures.

2. Submit manufacturer’s printed instructions for maintenance of installed work, including methods and frequency recommended for maintaining optimum condition under anticipated use conditions. Include precautions against using materials and methods which may be detrimental to finishes and performance.

1.7 QUALITY ASSURANCE

A. Manufacturer Qualifications: Engage an experienced manufacturer who is ISO 9001 certified for the design, production, installation and service of carriage mounted high-density mobile storage units and support rails. Furnish certificate attesting manufacturer’s ISO 9001 quality system registration.

B. Installer Qualifications: Engage an experienced installer authorized by manufacturer for the specified products for installing carriages and anchoring shelving units to carriages.

1. Minimum Qualifications: 5-year experience installing systems of comparable size and complexity to specified project requirements.

2. Guaranteed 24-hour service response time.

1.8 DELIVERY, STORAGE, AND HANDLING

A. Deliver high-density mobile storage system components palletized, wrapped, or crated to provide protection during transit and Project-site storage.

B. Comply with written instructions and recommendations of manufacturer for special delivery, storage and handling requirements.

1.9 PROJECT CONDITIONS

A. Environmental Limitations: Do not deliver or install high-density mobile storage system until spaces are enclosed and weatherproof, wet work in spaces is completed and dry, and ambient temperature is being maintained at the levels indicated for Project when occupied for its intended use.

B. Field Measurements: Verify shelving unit location by field measurements before fabrication and indicate measurements on Shop Drawings. Coordinate fabrication schedule with construction progress to avoid delaying the Work.

1. Established Dimensions: Where field measurements cannot be made without delaying the Work, establish dimensions and proceed with fabricating shelving units without field measurements. Coordinate construction to ensure actual dimensions correspond to established dimensions.

1.10 SEQUENCING AND SCHEDULING

A. Sequencing: Coordinate storage shelving system installation with other work to minimize possibility of damage and soiling during remainder of construction period.

B. Scheduling: Plan installation to commence after finishing operations, including painting have been completed.

C. Built-In Items: Provide components which must be built in at a time which causes no delays general progress of the Work.

D. Pre-installation Conference: Schedule and conduct conference on project site to review methods and procedures for installing mobile storage units including, but not limited to, the following:

1. Review project conditions and levelness of flooring and other preparatory work performed under other contracts.
2. Review and verify structural loading limitations.
3. Recommended attendees include:
   a. Owner's Representative.
   b. Prime Contractor or representative.
   c. Manufacturer's representative.
   d. Subcontractors or installers whose work may affect, or be affected by, the work of this section.

1.11 WARRANTY

A. Submit a written warranty, executed by Contractor, Installer and Manufacturer, agreeing to repair or replace components of the entire high-density mobile storage system assembly that fail in materials or workmanship within the specified warranty period. This warranty shall be in addition to, and not a limitation of other rights the Owner may have under Contract Documents.

1. Warranty Period: Five years from date of Substantial Completion.

B. Warrant the entire movable compact shelving installation against defects in materials and workmanship for a period of five years from date of Substantial Completion.

PART 2 - UCTS

2.1 MANUFACTURERS

A. In other Part 2 articles where titles below introduce lists, the following requirements apply to product selection:

1. Basis-of-Design Product: The design for each type high-density mobile storage carriage is based on **Spacesaver "Mechanical Assist High Density Mobile Carriages."** (www.spacesaver.com) Subject to compliance with requirements, provide either the named product or a comparable product by one of the following.

a. Borroughs Corporation "MA 1000"; www.borroughs.com
b. Montel Inc. "Quadramobile"; www.montel.com
c. Aurora Storage Products, Inc. www.aurorastorage.com

2. Provide shelving and mobile carriages and platforms for static shelving from the same manufacturer.

2.2 MATERIALS

A. Hot-Rolled Steel Sheet: ASTM A 1011, Commercial Steel (CS), Type B; free of scale, pitting, or surface defects; pickled and oiled.

B. Cold-Rolled Steel Sheet: ASTM A 1008, Commercial Steel (CS), Type B.

C. Steel Tubing: ASTM A 513, Type 2.

D. Grout: Non-shrink, non-staining hydraulic cement compound with minimum 8000 psi compressive strength at 7 days.

2.3 MANUFACTURED COMPONENTS

A. Rails:

1. Material: ASTM/AISI Type 1035 or 1045 steel, manufacturer's selection.
2. Capacity: 1,000 pounds per lineal foot of carriage.
3. Minimum Contact Surface: 5/8 inch wide.
4. Provide rail sections in minimum 6 foot lengths.
5. Rail configuration shall permit attachment to top of structural floor system with provision for leveling rails to compensate for variations in floor surface level.
6. Provide rail connections designed to provide horizontal and vertical continuity between rail sections, to gradually transfer the concentrated wheel point load to and from adjoining rail sections. Butt joints are not permitted.
7. Rail Form Covers: Manufacturer shall provide for protection to prevent damage to rails during concrete back pours.
8. Once rails are leveled, they shall be supported the full length with the specified grout.

B. Carriages:

1. Provide manufacturer's design movable carriages of welded or bolted steel construction. Galvanized structural components and riveted carriages are both unacceptable.
2. Provide fixed carriages of same construction and height as the movable carriages, anchored to rails. Setting fixed shelving directly on floors is not permitted.
3. When required, provide bolted carriage splices designed to maintain proper unit alignment and weight load distribution.
4. Design carriages to allow the shelving uprights to recess and interlock into the carriages a minimum of 3/4 inch. Top mount carriages are unacceptable.
5. As shown on the drawings provide carriages where needed with dual access control handles so each end of a carriage has a control handle.
6. Provide each carriage with two wheels per rail.

C. Drive / Guide System:

1. Design: Provide drive system which prevents carriage whipping, binding and excessive wheel/rail wear under normal operation.
   a. If line shafts are used, all wheels on one side of carriage shall drive.
   b. If synchronized drives are used, a minimum of one wheel assembly driving both sides of carriage at center location required. Drive shaft shall exhibit no play or looseness over the entire length of that assembly.
2. Shafts: Solid steel rod or tube.
3. Shaft Connections: Secured couplings.
4. Bearing Surfaces: Provide rotating load bearing members with ball or roller bearings. Provide shafts with pillow block or flanged self-aligning type bearings.

D. Wheels:

1. Capacity: Minimum load capacity per wheel: 3200 lbs.
2. Size: Minimum 5 inches, outside diameter drive wheels.
3. Guides: Determined by manufacturer; minimum 2 locations.

E. Face Panels:

1. Materials: Plastic Low Pressure laminate clad particle board with plastic edging on vertical edges.
2. Finishes: Selected from manufacturer’s standard available Low Pressure colors and patterns.

F. Ramps & Decking:

1. Provide fire retardant floor/ramp between rails of minimum 3/4 inch (19MM), 5-ply underlayment grade plywood. Particle board sheathing materials are not permitted. Comply with ADA accessibility requirements between all rails in a shelving group and all accessible edges.
2. Finished flooring materials shall be provided by and installed by others.
3. General: Finished elevation shall be 1/16 inch (1.6MM) below top of rails.

4. Place floors and ramps to the extent indicated on approved shop drawings. Extend ramps under all movable ranges. Extend under stationary ranges if dual control access is required. Provide ramp at both ends of mobile system. Do not extend ramps beyond the ends of carriages.
5. Construct floors and ramps to prevent warping or deformation of floor panels in a normal operating environment. Support panels on levelers at maximum 16 inches on center.

G. 4-Post Shelving:
1. Welded Frame Upright:
   a. The welded frame shall consist of 2 vertical upright columns constructed of min. 14-gauge (1.9MM) steel. Upright column shall be 2" (51MM) deep with a 1 1/4" face with 1/2" (13MM) return flanges. The uprights are fully welded to a tubular top spreader and a channel bottom spreader. The uprights shall have shelf attachment slots on 1" (25MM) increments the entire length of the upright. Slots shall be 5/8" x 1/4" (16MM x 6MM). Uprights shall include location indicators the entire length of upright on a minimum of 6" (152MM) centers.
   b. The tubular top spreader shall be a minimum of 14-gauge (1.9MM) steel tube 2 1/2" tall x 1" wide (64MM tall x 25MM wide).
   c. The bottom spreader channel shall be a 16-gauge (1.5MM) channel 1-3/4" tall x 1" wide (44MM tall x 25MM wide) with two 1/2" (12MM) square holes provided for cage nuts for use with optional levelers.
   d. Non-welded frame cantilever type shelving units are unacceptable.
2. Base supports:
   a. A base support shall be provided to provide lateral unit stability. The support shall be minimum of 14-gauge (1.9MM) steel 9" (228MM) high with a 1" (25MM) return on the bottom for support. Support shall attach to frame upright with two 3/8" (10MM) – 16 UNC bolts and 3/8" (10MM) keps nuts. Support shall be designed and constructed with shear tabs that interlock/mate with the upright to provide a positive connection that will give additional stability to welded frame in addition to the bolted connectors. Shear tabs ensure squareness and alignment of the base support to the welded frame. Base support design must allow the frame to transfer loads to floor or levelers. Base support brackets that put the bolted connection in shear are unacceptable.
   b. A gussetted base support shall be provided between every unit on mobile to provide lateral unit stability. The gusset will be a minimum 14-gauge (1.9MM) steel welded to the top of the standard base support.
3. Leveler Kits:
   a. Single-Faced: Consists of one or two 3/8 (10MM) -16 UNC cage nut(s) and leveler(s) held by the single faced base support. Two additional cage nuts and levelers are provided to be used in the welded frame itself.
   b. Double-Faced: Consists of two or four 3/8 (10MM) -16 UNC cage nuts and levelers held by the double-faced base support. Two additional cage nuts and levelers are provided to be used in the welded frame itself.
4. Shelf end brackets:
   a. Shall be made of minimum 16-gauge (1.5MM) steel of a depth not less than that of the shelf on which they are used and shall extend not less than 6" (152MM) above the top surface of the shelf. The top and front edges shall be flanged outwardly to a half round profile to prevent accidental knifing of material. Shelf brackets shall

have a minimum of two hooks at the top for engaging into the column (post) and one safety lug to prevent accidental dislodgment at the bottom. Outward embossment in the upper front corner of the shelf brackets shall act as shelf spacers and prevent overlapping of shelf end brackets. For aesthetic reasons as well as to prevent sharp corners, the upper front corner of the shelf brackets shall have a radius of not less than 1 inch (25MM). The base of the end brackets will have two lanced tabs that interlock with the shelf and provide firm support for the shelf. Lance tabs and shelf shall be provided with 1/4" (64MM) diameter holes for optional bolting of components. The front edge of the end bracket shall have a 15-degree slope.

5. Base Shelves:
   a. Base shelves on mobile shall be 3/4" (19MM) to sit flush with top of carriage profile. Base shelves shall be individual on both faces of double face or single face units, with center filler channels. Each base shelf shall be supported by shelf end brackets for maximum strength and support.
6. Plain Shelves:
   a. Shelves shall be formed from minimum 18-gauge (1.2MM) cold rolled steel with a triple 90-degree bend on both front and rear edges with a shelf thickness to be 3/4" (19MM). Shelf ends to be turned down 90-degrees to engage and interlock into the shelf end brackets. Shelves shall be no less than ¼" (6MM) from actual dimension specified.
7. Metal canopy tops:
   a. Shall be formed from minimum 18-gauge (1.2MM) cold rolled steel with a triple 90-degree bend on front edges with a maximum edge thickness of ¾" (19MM). Single face and double face units to be one-piece design.
8. Card Holders:
   a. As specified, shall be painted steel to hold 3" x 5" (76MM x 127MM) cards (by others). One shall be provided for each single faced and two for each double faced end panel.
9. Dual Controls:
   a. Dual Control: Provide control handles at both ends of each moveable range.

2.4 FABRICATION

A. General: Coordinate fabrication and delivery to ensure no delay in progress of the Work.

B. Wheels: Provide precision machined and balanced units with permanently shielded and lubricated bearings.

C. Carriages: Fabricate to ensure no more than 1/4 inch maximum deviation from a true straight line. Splice and weld to ensure no permanent set or slippage in any spliced or welded joint when exposed to forces encountered in normal operating circumstances.

D. Shelving, Supports and Accessories: See individual descriptions in "Shelving" paragraphs.

2.5 FINISHES

A. Colors: Selected from manufacturer's standard available colors.

B. Paint Finish: Provide factory-applied electrostatic powder coat paint on exposed metal surfaces. Meet or exceed specifications of the American Library Association.

C. Laminate Finish: Provide factory-applied plastic low pressure laminate end panels at locations indicated on approved shop drawings.

D. Edgings: Provide preformed edging, color-matched to unit colors selected.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine floor surfaces with Installer present for compliance with requirements for installation tolerances and other conditions affecting performance of mobile storage units.

B. Verify that intended installation locations of mobile storage units will not interfere with nor block established required exit paths or similar means of egress once units are installed.

1. For this new construction application, ensure that recesses for rails in floors are at proper spacing and depths, with allowance for grouting.

C. Prepare written report, endorsed by Installer, listing conditions detrimental to proper performance of mobile storage units, once installed.

D. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

A. Rails:

1. Lay out rails using full length units to the maximum extent possible. Use cut lengths only at ends to attain total length required. Locate and position properly, following dimensions indicated on approved shop drawings. Verify thickness of finished floor materials to be installed (by others) and install level 1/16 inch above finished floor surfaces.
2. Verify level, allowing for a minimum 1/4 inch of grout under high points. Position and support rails so that no movement occurs during grouting.
3. Set rails in full grout bed, completely filling any voids entire length of all rails including rail connectors. Trim up sides flush with rails to ensure proper load transfer from rail to supporting floor. Using shims in lieu of full grouting is not permitted.
4. Installation Tolerances: Do not exceed levelness of installed rails listed below:
   a. Maximum Variation from True Level Within Any Module: 3/32 inch.
   b. Maximum Variation between Adjacent (Parallel) Rails: 1/16 inch, perpendicular to rail direction.
   c. Maximum Variation in Height: 1/32 inch, measured along any 10 foot rail length.
5. Verify rail position and level; anchor to structural floor system with anchor type and spacings indicated on approved shop drawings.
6. Install rail form covers and protect rails from concrete 2nd pour.
7. After concrete pour, verify position and level of installed rails before proceeding with rest of installation.

B. Shelving Units Installation:

1. General: Follow layout and details shown on approved shop drawings and manufacturer's printed installation instructions. Position units level, plumb; at proper location relative to adjoining units and related work.
2. Carriages:
   a. Place movable carriages on rails. Ensure that all wheels track properly and centering wheels are properly seated on centering rails. Fasten multiple carriage units together to form single movable base where required.
   b. Position fixed carriage units to align with movable units.
3. Shelving Units:
   a. Permanently fasten shelving units to fixed and movable carriages with vibration-proof fasteners.
   b. Stabilize shelving units following manufacturer's written instructions. Reinforce shelving units to withstand the stress of movement where required and specified.

3.3 FIELD QUALITY CONTROL

A. Verify shelving unit alignment and plumb after installation. Correct if required following manufacturer’s instructions.

B. Remove components which are chipped, scratched, or otherwise damaged and which do not match adjoining work. Replace with new matching units, installed as specified and in manner to eliminate evidence of replacement.

3.4 ADJUSTING AND CLEANING

A. Adjust components and accessories to provide smoothly-operating, visually-acceptable installation.

B. Immediately upon completion of installation, clear components and surfaces. Remove surplus materials, rubbish and debris resulting from installation upon completion of work and leave areas of installation in neat, clean condition.

3.5 DEMONSTRATION/TRAINING

A. Schedule and conduct detailed demonstration and training of Owner’s personnel in operation of installed high density mobile storage system components and features..

B. Schedule and conduct comprehensive maintenance training with Owner's maintenance personnel. Training session shall include lecture and demonstration of all maintenance and repair procedures that end user personnel would normally perform.

C. Comply with Demonstration and Training requirements of Division 1 Section “Closeout Procedures”, including requirement for providing Owner with copies of digital CD recording of demonstration and maintenance training sessions.

3.6 PROTECTION

A. Protect system against damage during remainder of construction period. Advise Owner of additional protection needed to ensure that system will be without damage or deterioration at time of substantial completion.

END OF SECTION 105626

SECTION 122414 - MOTORIZED ROLLER WINDOW SHADES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Provisions of the Contract and of the Contract Documents apply to this Section.

1.2 SUMMARY

A. This Section includes roller shades and low-voltage motorized shade operators.
   1. Single-roller shades for applications indicated. (black-out shade)
   2. Double-roller shades for applications indicated. (black-out shade)

1.3 SUBMITTALS

A. Product Data: For each type of product indicated. Include styles, material descriptions, construction details, dimensions of individual components and profiles, features, finishes, and operating instructions.
   1. Motorized Shade Operators: Include operating instructions.
   2. Motors: Show nameplate data, ratings, characteristics, and mounting arrangements.

B. Shop Drawings: Show location and extent of roller shades. Include elevations, sections, details, and dimensions not shown in Product Data. Show installation details, mountings, attachments to other work, operational clearances, and relationship to adjoining construction.
   1. Motorized Shade Operators: Show locations and details for installing operator components, switches, and controls. Indicate motor size, electrical characteristics, drive arrangement, mounting, and grounding provisions.
   2. Wiring Diagrams: 110 VAC power source, step-down transformers to 24 VAC, system, and control wiring.

C. Coordination Drawings: Reflected ceiling plans and sections, drawn to scale, on which the following items are shown and coordinated with each other, based on input from installers of the items involved:
   1. Ceiling suspension system members and attachment to building structure.
   2. Adjacent ceiling-mounted or penetrating items including light fixtures, air outlets and inlets, speakers, sprinklers, recessed shades, and other junctures of acoustical ceilings with adjoining construction.
   3. Shade mounting assembly and attachment.
   4. Size and location of access to shade operators, motors and adjustable components.
   5. Minimum Drawing Scale (Plans): 1/4 inch = 1 foot
   6. Minimum Drawing Scale (Sections – if required): 1-1/2 inch = 1 foot

D. Samples for Initial Selection: For each colored component or light-reducing type of shade indicated.
   1. Include similar Samples of accessories involving color selection.

E. Samples for Verification:
   1. Complete, full-size operating unit not less than 16 inches wide for each type of roller shade indicated.
   2. For the following products:

a. Shade Material: Not less than 12-inches square, with specified treatments applied. Mark face of material. Mark top and face of material.

b. Ceiling Recessed Shade Pocket: Full-size unit, not less than 12 inches long. Include closure plate and edge trim to receive acoustical ceiling panel system.

F. Window Treatment Schedule: For each motorized roller shade assembly, identify each shade unit to correspond with designations indicated on Drawings.

G. Product Certificates: For each type of roller shade, signed by product manufacturer.

H. Qualification Data: For Installer.

I. Product Test Reports: For each type of roller shade.

J. Maintenance Data: For roller shades to include in maintenance manuals. Include the following:

1. Methods for maintaining roller shades and finishes.
2. Precautions about cleaning materials and methods that could be detrimental to fabrics, finishes, and performance.
3. Operating hardware.
4. Motorized shade operators.
5. Control devices.

1.4 QUALITY ASSURANCE

A. Installer Qualifications: Fabricator of products.

B. Source Limitations: Obtain roller shades through one source from a single manufacturer.

C. Fire-Test-Response Characteristics: Provide roller shade band materials with the fire-test-response characteristics indicated, as determined by testing identical products per test method indicated below by UL or another testing and inspecting agency acceptable to authorities having jurisdiction:

1. Flame-Resistance Ratings: Passes NFPA 701.

D. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.

E. Product Standard: Provide roller shades complying with WCMA A 100.1.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Deliver shades in factory packages, marked with manufacturer and product name, and location of installation using same designations indicated on Drawings.

1.6 PROJECT CONDITIONS

A. Environmental Limitations: Do not install roller shades until construction and wet and dirty finish work in spaces, including painting, is complete and ambient temperature and humidity conditions are maintained at the levels indicated for Project when occupied for its intended use.

B. Field Measurements: Where roller shades are indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication and indicate measurements on Shop Drawings. Notify Architect of discrepancies. Coordinate fabrication schedule with construction progress to avoid delaying the Work.

PART 2 - PRODUCTS

2.1 VERTICAL ROLLER SHADES

A. Basis-of-Design Product: Subject to compliance with requirements, provide **"SheerShade"** and **"Blackout"** by **Lutron Shading Solutions**; www.lutron.com or a comparable product by one of the following:

1. Castec, Inc. www.castec.com
2. DFB Sales Inc. www.dfbsales.com

B. Shade Band Material – Black-Out Shade: PVC laminated fiberglass. (Where indicated.)

1. Manufacturer, Style and Pattern: (color to be selected)
   a. "Standard 1" BN-903-0 or "Standard 2" BH-100-0 by Lutron.
   b. "SheerWeave" Style 7100 Blackout Fabric by Phifer
   c. "SunBlock" Series SB9000/9100 by Draper
   d. Equinox 0700 Series by MechoShade
2. Fabric Width: 96 inches and as required to align with centers of mullions of continuous fixed glazing applications.
3. Color: (To be selected per project)
4. Material Openness Factor: OF 0%
5. Bottom Hem: Straight
6. Use: Fabric on manual and motorized shades for black-out shade function.
7. Locations:
   a. Forum – A25: South wall.

C. Rollers: Electrogalvanized or epoxy primed steel or extruded-aluminum tube of diameter and wall thickness required to support and fit internal components of operating system and the weight and width of shade band material without sagging; designed to be easily removable from support brackets; with manufacturer's standard method for attaching shade material. Provide a single roller shade band per roller. Coordinate direction of roll with headbox design.

D. Mounting Brackets: Galvanized or zinc-plated steel.

E. Fascia (for applications indicated): L-shaped, formed-steel sheet or extruded aluminum; long edges returned or rolled; continuous panel concealing front and bottom of shade roller, brackets, and operating hardware and operators. Removable design for access.

F. Pocket-Style Headbox (for applications indicated): U-shaped, formed-steel sheet or extruded aluminum; long edges returned or rolled; with a bottom cover consisting of slot opening of minimum dimension to allow lowering and raising of shade and a removable or an openable, continuous metal access panel concealing shade roller, brackets, and operating hardware and operators within.

1. Provide trim edge to receive acoustical ceiling panel system. Coordinate with ACP ceiling grid suspension system for finished installation.

G. Bottom Bar: Steel or extruded aluminum. Provide internal type bottom bar concealed, by pocket of shade material with concealed weight bar as required for smooth, properly balanced shade operation.

H. Shade Operation: Motorized operator.

2.2 ROLLER SHADE FABRICATION

A. Product Description: Roller shade consisting of a roller, a means of supporting the roller, a flexible sheet or band of material carried by the roller, a means of attaching the material to the roller, a bottom bar, and an operating mechanism that lifts and lowers the shade.

B. Concealed Components: Non-corrodible or corrosion-resistant-coated materials.

1. Lifting Mechanism: With permanently lubricated moving parts.

C. Unit Sizes: Obtain units fabricated in sizes to fill window and other openings as follows, measured at 74 deg F:

1. Shade Units Installed between (Inside) Jambs: Edge of shade not more than 1/4 inch from face of jamb. Length equal to head to sill dimension of opening in which each shade is installed. Provide unless indicated otherwise.

2. Shade Units Installed Outside Jambs: Width and length as indicated, with terminations between shades of end-to-end installations at centerlines of mullion or other defined vertical separations between openings. Provide for applications indicated.

D. Installation Brackets: Designed for easy removal and reinstallation of shade, for supporting headbox, roller, and operating hardware and for hardware position and shade mounting method indicated.

1. Install in headbox for applications indicated.

E. Installation Fasteners: No fewer than two fasteners per bracket, fabricated from metal non-corrosive to shade hardware and adjoining construction; type designed for securing to supporting substrate; and supporting shades and accessories under conditions of normal use.

F. Color-Coated Finish: For metal components exposed to view, apply manufacturer's standard baked finish complying with manufacturer's written instructions for surface preparation including pretreatment, application, baking, and minimum dry film thickness.

G. Colors of Metal and Plastic Components Exposed to View: As selected by Architect from manufacturer's full range, unless otherwise indicated.

2.3 MOTORIZED ROLLER SHADE OPERATORS

A. Manufacturers: Subject to compliance with requirements, provide operators by manufacturer of roller shade.

B. General: Provide factory-assembled motorized shade operation systems designed for lifting shades of type, size, weight, construction, use, and operation frequency indicated. Provide operation systems of size and capacity and with features, characteristics, and accessories suitable for Project conditions and recommended by shade manufacturer, complete with electric motors and factory-prewired motor controls, remote-control stations, remote-control devices, power disconnect switches, enclosures protecting controls and all operating parts, and accessories required for reliable operation without malfunction. Include wiring from motor controls to motors. Coordinate operator wiring requirements and electrical characteristics with the building electrical system.

C. Comply with NFPA 70.

D. Control Equipment: Comply with NEMA ICS 1, NEMA ICS 2, and NEMA ICS 6 with NFPA 70, Class 2 control circuit, maximum 24-V ac or dc.

E. **Low-Voltage** Electric Motors: UL-approved or -recognized, totally enclosed, insulated motor, complying with NEMA MG 1, with thermal-overload protection, brake, permanently lubricated bearings, and limit switches; sized by shade manufacturer to start and operate size and weight of shade considering service factor or considering Project's service conditions without exceeding nameplate ratings.

1. Service Factor: According to NEMA MG 1, unless otherwise indicated.
2. Motor Characteristics: Single phase, **24** V, 60 Hz.
3. Motor Mounting: Within manufacturer's standard roller enclosure.

F. Remote Controls: Electric controls with NEMA ICS 6, Type 1 enclosure for recessed or flush mounting. Provide the following devices for remote-control activation of shades:

1. Keypad(s) shall be able to electronically set and reconfigure shade open and close limits, shade preset positions, system groups, and system subgroups at the control without rewiring and without access to the Electronic Drive Unit.
2. Wallplate shall attach using no visible means of attachment.
3. Any engraved artwork specified for controls, such as borders and logos, shall be applied in a method designed to resist removal by scratching, cleaning, etc.
4. Manufacturer shall ensure color match of all visible components of control assembly.
5. Keypad(s) shall mount in standard U.S. backboxes in either single-gang or multi-gang installations. Keypad(s) shall be available in “Insert” and “No Insert” models. Manufacturer to supply appropriate wallplate based on ganging and insert options specified.
6. Keypad(s) shall provide an immediate local LED response upon button activation to indicate that a system command has been sent from the keypad. LED will remain lit contingent upon receiving system confirmation of the successful completion of the command.
7. Keypad(s) shall have removable button assemblies that can be replaced in the field to change colors, button configurations, and engraving.
8. Keypad(s) shall have a backlighting option.
9. Keypad(s) shall be capable of simultaneously controlling one or more shades, up to the maximum number of shades in the system.
10. Keypads will provide buttons for selecting the following for one group of shades: full-open, full-close, three programmable preset positions, and raise/lower.

G. Limit Switches: Adjustable switches, interlocked with motor controls and set to automatic-ally stop shade at fully-raised and fully-lowered positions.

H. Operating Function: Stop and hold shade at open, midpoint, and closed positions.

I. Operating Features: Include the following:

1. Group switching with integrated switch control; single face plate for multiple switch cut-outs.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances, operational clearances, accurate locations of connections to building electrical system, and other conditions affecting performance.

1. Proceed with installation only after unsatisfactory conditions have been corrected.

B. Coordinate with Division 26 Sections for electrical service and connections for motor operators, controls, limit switches, and other powered devices and for system disconnect switches for motorized shade operation.

3.2 ROLLER SHADE INSTALLATION

A. Install roller shades level, plumb, and aligned with adjacent units according to manufacturer's written instructions, and located so shade band is not closer than 2 inches to interior face of glass.

B. Install tensioned skylight shades in accordance with manufacturer’s instructions and approved shop drawings. Adjust and align bi-parting shades for effective closure of opening.

C. Connections: Connect motorized operators to building electrical system.

3.3 ADJUSTING

A. Adjust and balance roller shades to operate smoothly, easily, safely, and free from binding or malfunction throughout entire operational range.

3.4 CLEANING AND PROTECTION

A. Clean roller shade surfaces after installation, according to manufacturer's written instructions.

B. Provide final protection and maintain conditions, in a manner acceptable to manufacturer and Installer, that ensure that roller shades are without damage or deterioration at time of Substantial Completion.

C. Replace damaged roller shades that cannot be repaired, in a manner approved by Architect, before time of Substantial Completion.

3.5 DEMONSTRATION

A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain roller shades for a period of 12 months following date of Substantial Completion. Refer to “Demonstration and Training” article of Division 1 Section “Closeout Procedures.”

END OF SECTION 122414

SECTION 12326 – MUSIC EQUIPMENT STORAGE CASEWORK

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Provisions of the Contract and of the Contract Documents apply to this Section.

1.2 SUMMARY

A. This Section includes the following:
   1. Thermoset decorative panel wood cabinets for music equipment storage.

B. Related Sections include the following:
   1. Division 6 Section "Rough Carpentry" for wood blocking at music equipment storage casework.
   2. Division 6 Section "Interior Architectural Woodwork."
   3. Division 12 Section "Laminate-Clad Institutional Casework."
   4. Division 12 Section "Wood Laboratory Casework."

1.3 SUBMITTALS

A. Product Data: For each type of product indicated. Submit manufacturer's specifications, installation instructions, and general recommendations. Include data substantiating materials comply with requirements.

B. Shop Drawings: Indicate dimensions, description of materials and finishes, general construction, specific modifications, component connections, anchorage methods, hardware, and installation procedures.

C. Samples for Selection:
   1. For cabinet finishes.

1.4 QUALITY ASSURANCE

A. Design Requirements:
   1. Provide storage cabinets specifically designed for intended use and meeting minimum performance characteristics specified. Music instrument storage units will be chip and abrasion resistant under heavy usage and will protect instruments and cases from damage under normal use.
   2. Provide minimum 3/4-inch thick high strength instrument shelving with scuff-resistant plastic surface with integral profiled surface for ventilation and radiused (bulnose) front edge, designed and engineered to withstand continuous use without surface or front edge breakdown.
      a. Loading Capacity: Provide minimum uniformly distributed total load capacity of 200 lb per individual shelf with maximum deflection of L/144.
   3. Manufacture individual instrument storage cabinets with panels, finished with thermally-fused melamine or polyester laminate meeting performance requirements of NEMA LD 3 for VGS grade both faces all components and edge banded with 3mm radiused PVC. Factory jig and drill end panels to accept unit-to-unit through-bolting: wood screw attachment not permitted.

4. Provide inset style wire grille doors; reveal or full overlay style doors will not be permitted. All hinges shall be structurally attached to vertical panels using engineered and tested through-bolt hardware, and welded to wire grille doors. Screw mounted hinges will not be permitted.
5. Provide door slide-bolt or gravity latch, with integral padlock hasp.

B. Manufacturer to provide documentation of following Minimum Performance Requirements:
1. Storage Casework Wire-Grille Door Hinge: Each weld capable of resisting 400 lbf (1779 N) pull test without visible damage or permanent deformation.
2. Instrument storage shelf system shall have a factory warranty of ten (10) years against defects in material and/or workmanship.

C. Composite wood and agrifiber products permanently installed inside the weatherproofing system shall contain no added urea formaldehyde resins or laminating adhesives. Materials considered fixtures, furniture, and equipment are not considered base building elements and are thus excluded from this restriction.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Deliver music equipment storage casework only after painting, utility roughing-in, and similar operations that could damage, soil, or deteriorate casework have been completed in installation areas. If casework must be stored in other than installation areas, store only in areas where environmental conditions meet requirements specified in “Project Conditions” Article.

B. Keep finished surfaces covered with protective covering during handling and installation.

1.6 PROJECT CONDITIONS

A. Environmental Limitations: Do not deliver or install woodwork until building is enclosed, wet work is complete, and HVAC system is operating and will maintaining temperature between 60 and 90 deg F and relative humidity between 25 and 55 percent during the remainder of the construction period.

1.7 WARRANTY

A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of music equipment storage casework that fail in materials or workmanship within specified warranty period. Failures include, but are not limited to, the following:
1. Delamination of components or other failures of glue bond.
2. Warping of components.
3. Failure of operating hardware.
4. Deterioration of finishes.

B. Warranty Period:
1. Cabinet Casework: Ten years from date of Substantial Completion.
2. Cabinet Instrument Shelf: Ten years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Basis-of-Design Product: The design for music equipment storage casework is based on **Wenger Corp.** (www.wengercorp.com) Subject to compliance with requirements, provide the named product or a comparable prequalified product. Manufacturer requesting prior approval must submit samples of materials, construction features and finishes.

1. Sample cabinet.
2. Typical shelf.
3. Cabinet wall.
4. Door grille panel.
5. Hinges with through-bolting hardware.
6. Slide bolts or gravity latch. (padlock hasps not acceptable)

B. Substitutions:

1. The materials and products of the manufacturer listed above are approved as base bid for this project. All bids shall be submitted on the base bid products and materials. Proposed "write in" or voluntary alternates will not be considered in determining the low bid or the award of the contract.
2. The burden of demonstrating the merit of the proposed substitute is on the proposer. The proposer shall be prepared to supply the specified material or products from the specified supplier if the proposed substitute is not accepted.
3. The materials, products and equipment in the bidding documents establish the required standard of function, dimension, appearance and quality to be met by any proposed substitute.

C. Subject to conformance with specifications, including features not standard to the design standard manufacturer, the following manufacturers may provide products for this project subject to submittal and approval by Owner and Architect of samples of materials, construction features and finishes stipulated in Paragraph 2.1A.

1. Corilam www.corilam.com
2. Stevens Industries, Inc. www.stevensadvantage.com
3. TMI Systems Design Corp. www.tmisystems.com
4. LSI Corporation of America, Inc. http://www.lsi-casework.com

2.2 STORAGE CASEWORK

A. General: Provide thermoset decorative panelmusic equipment storage casework units manufactured to AWI specifications for Section 400B, "Custom" grade.

1. Provide casework items equal to models referenced by Wenger catalogue numbers.

B. Thermoset Decorative Panels: Particleboard or medium-density fiberboard finished with thermally fused, melamine-impregnated decorative paper and complying with requirements of NEMA LD 3, Grade VGL, for test methods 3.3, 3.4, 3.6, 3.8, and 3.10.

1. Medium-Density Fiberboard: ANSI A208.2, Grade 130.
2. Particleboard: ANSI A208.1, Grade M-2.
3. Provide 3.0 mm PVC or polyester edge banding complying with LMA EDG-1 on components with exposed or semi-exposed edges.

C. Instrument Shelves: Provide shelf units that are repairable or replaceable without dismantling case construction. Provide ten year written warranty on shelf units to repair or replace gouged or deteriorated shelf units damaged under normal heavy-use conditions.

1. Cabinets up to 27 inches wide: Shelf conforming to loading requirements. Mount shelves to cabinet walls with dowels or manufacturer's clip support system. Removable shelves shall be replaceable without damage to adjacent surfaces.
2. Cabinets over 27 inches wide: Fixed shelving conforming to loading requirements.

D. Doors: Provide the following:

1. Grille Doors: Wire grille doors of minimum 3/16" diameter steel rod welded; enamel finish; with name/number plate and padlock hasp. Welded steel grille construction with powder coat finish, color oyster. Welds at T-joints must be 360^0

E. Finish Hardware:

1. Butt Hinges: 2-3/4 inch (70 mm), 5-knuckle steel hinges made from 0.090 inch (2.29 mm) thick metal, ANSI/BHMA A156.9, Grade 1, with powder-coated finish, through-bolted to side panels and welded to grille door frames. Provide 2 hinges on compartment doors, and 4 hinges on full-height doors.
2. Latch: Provide slide or gravity latch fabricated of 0.105 inch (2.67 mm) min. thickness steel, with integral padlock eye, powder-coat finish, through-bolted to side panel and welded to grille door frames. Latches securely without padlock. Provide with label holder. (Padlocks furnished by Owner.)
3. Joinery Hardware: 1/4-20 by 1.77 inch (45 mm) panel connectors with 15mm head diameter and steel thread inserts, powder coated to match panels.

F. Cabinet Back Panel: Provide prefinished 1/4-inch thick medium-density fiberboard fully captured four sides or 1/2-inch prefinished particleboard full overlay construction. Provide thermally fused finish to match cabinet interior.

2.3 MUSIC STORAGE CASEWORK SCHEDULE

A. Provide casework items equal to models referenced by Wenger catalogue numbers. All units are 84 inches height by dimensions indicated, unless noted otherwise.

1. Provide lockable door for cabinet or each compartment of cabinets for all locations.

B. Schedule:

1. **M-1:** Instrument Storage – Violins/Violas
   a. Manufacturer: Wenger Corporation
   b. Product Name: "Stringed Instrument Storage Cabinet #42"
   c. Product Number: 255A942 (AcoustiCabinet)
   d. Finish: To be selected by Architect from manufacturer's full range.
   e. Hardware capacity: 16-20 Violins/Violas/Vihuelas
   f. Height: 85.625 inches
   g. Width: 60 inches
   h. Depth: 39.25 inches
2. **M-2:** Instrument Storage – Basses
   a. Manufacturer: Wenger Corporation
   b. Product Name: "Stringed Instrument Storage Cabinet #42"
   c. Product Number: 255A942 (AcoustiCabinet)
   d. Finish: To be selected by Architect from manufacturer's full range.

e. Hardware capacity: 2-3 basses
f. Height: 85.625 inches
g. Width: 60 inches
h. Depth: 39.25 inches

3. **M-3:** Instrument Storage – Combination
   a. Manufacturer: Wenger Corporation
   b. Product Name: "Stringed Instrument Storage Cabinet #42"
   c. Product Number: 255A942 (AcoustiCabinet)
   d. Finish: To be selected by Architect from manufacturer's full range.
   e. Hardware capacity: Cello/Guitarron & Violin/Viola/Vihuela
   f. Height: 85.625 inches
   g. Width: 60 inches
   h. Depth: 39.25 inches
4. **M-4:** Folio Storage – 6 shelf unit
   a. Manufacturer: Wenger Corporation
   b. Product Name: "Music Library System"
   c. Product Number: 173F600
   d. Finish: To be selected by Architect from manufacturer's full range.
   e. Sheet Music Capacity: 260 titles
   f. Height: 81.25 inches
   g. Width (each unit): 16 inches
   h. Depth: 44 inches
5. **M-7:** Uniform Storage: 20 Uniforms/Hats
   a. Manufacturer: Wenger Corporation
   b. Product Name: "UltraStor Robe and Uniform Storage Cabinets"
   c. Product Number: #36
   d. Finish: To be selected by Architect from manufacturer's full range.
   e. Uniform Storage Capacity: 20 Uniforms and 24 Hats
   f. Height: 85.625 inches
   g. Width: 48.5 inches
   h. Depth: 29.25 inches
6. **M-8:** Flag Storage
   a. Manufacturer: Wenger Corporation
   b. Product Name: "Corner Cabinet (#41) Revolving Shelf Option"
   c. Product Number: 250A041 and 145R771 and 145R766
   d. Finish: To be selected by Architect from manufacturer's full range.
   e. Storage Option: Flag Storage (200)
   f. Height: 84 inches
   g. Width: 48.25 inches
   h. Depth: 48.25 inches

7. **M-9:** Revolving Garment and Shelf Storage
    a. Manufacturer: Wenger Corporation
    b. Product Name: "Corner Cabinet (#41) Revolving Shelf Option"
    c. Product Number: 250A041 and 145R770 and 145R771
    d. Finish: To be selected by Architect from manufacturer's full range.
    e. Storage Option: Revolving Shelf and Garment Ring
    f. Height: 84 inches
    g. Width: 48.25 inches
    h. Depth: 48.25 inches
8. **M-10:** Instrument Storage
    a. Manufacturer: Wenger Corporation
    b. Product Name: "AcoustiCabinet" (Narrow)
    c. Product Number: #10
    d. Finish: To be selected by Architect from manufacturer's full range.
    e. Storage Capacity: 3 French Horns, Alto Horns or Snare Drums
    f. Height: 85.625 inches
    g. Width: 21.5 inches
    h. Depth: 29.25 inches
9. **M-11:** Instrument Storage
    a. Manufacturer: Wenger Corporation
    b. Product Name: "AcoustiCabinet"
    c. Product Number: #7
    d. Finish: To be selected by Architect from manufacturer's full range.
    e. Storage Capacity: 6 Trombones, Bassoons, Bass Clarinets, Violins, Violas, Tenor Sax or Alto Clarinets, and 1 Baritone Horn, Euphonium or Mellophone
    f. Height: 85.625 inches
    g. Width: 27.5 inches
    h. Depth: 39.25 inches
10. **M-12:** Instrument Storage
    a. Manufacturer: Wenger Corporation
    b. Product Name: "AcoustiCabinet" (Narrow)
    c. Product Number: #14
    d. Finish: To be selected by Architect from manufacturer's full range.
    e. Storage Capacity: 2 Bass Drums, Field Drums, Snare Drums or Parade Drums
    f. Height: 85.625 inches
    g. Width: 21.5 inches
    h. Depth: 39.25 inches
11. **M-13:** Instrument Storage
    a. Manufacturer: Wenger Corporation
    b. Product Name: "AcoustiCabinet" (Narrow)

c. Product Number: #11
d. Finish: To be selected by Architect from manufacturer's full range.
e. Storage Capacity: 3 Baritones, Euphoniums, or Mellophones
f. Height: 85.625 inches
g. Width: 21.5 inches
h. Depth: 39.25 inches

12. **M-14:** Instrument Storage
    a. Manufacturer: Wenger Corporation
    b. Product Name: "AcoustiCabinet"
    c. Product Number: #12
    d. Finish: To be selected by Architect from manufacturer's full range.
    e. Storage Capacity: 3 Baritone Saxophones, Bass Clarinets, Bassoons, Field Drums, or Snare Drums or use for general storage
    f. Height: 85.625 inches
    g. Width: 48.5 inches
    h. Depth: 29.25 inches
13. **M-15:** Instrument Storage
    a. Manufacturer: Wenger Corporation
    b. Product Name: "AcoustiCabinet"
    c. Product Number: #65
    d. Finish: To be selected by Architect from manufacturer's full range.
    e. Storage Capacity: 2 French Horns, Alto Horns, Snare Drums or Mellophones
    f. Height: 69.75 inches
    g. Width: 27.5 inches
    h. Depth: 29.25 inches
14. **M-16:** Instrument Storage
    a. Manufacturer: Wenger Corporation
    b. Product Name: "AcoustiCabinet"
    c. Product Number: #27
    d. Finish: To be selected by Architect from manufacturer's full range.
    e. Storage Capacity: 8 Trumpets, Cornets, or Alto Saxophones
    f. Height: 69.75 inches
    g. Width: 27.5 inches
    h. Depth: 29.25 inches
15. **M-17:** Instrument Storage
    a. Manufacturer: Wenger Corporation
    b. Product Name: "Tuba/Sousaphone Wall Bracket
    c. Product Number: #049D100
    d. Finish: To be selected by Architect from manufacturer's full range.
    e. Storage Capacity: Tuba/Sousaphone
        1) Does not fit Miraphone Tubas, Baritone Horns, or Rotary Valve Tubas.

f. Height: Adjustable
g. Width: Adjustable
h. Description: Wall Mounted

16. **M-18:** Instrument Storage
    a. Manufacturer: Wenger Corporation
    b. Product Name: "AcoustiCabinet" (Narrow)
    c. Product Number: #28
    d. Finish: To be selected by Architect from manufacturer's full range.
    e. Storage Capacity: 8 Trombones, Bassoons, Bass Clarinets, Violins, Violas, Tenor Saxophones or Alto Clarinets
    f. Height: 69.75 inches
    g. Width: 21.5 inches
    h. Depth: 39.25 inches
17. **M-19:** Instrument Storage
    a. Manufacturer: Wenger Corporation
    b. Product Name: "AcoustiCabinet" (Narrow)
    c. Product Number: #25
    d. Finish: To be selected by Architect from manufacturer's full range.
    e. Storage Capacity: 12 Clarinets, Flutes, Piccolos or Oboes
    f. Height: 69.75 inches
    g. Width: 21.5 inches
    h. Depth: 19.25 inches
18. **M-20:** Instrument Storage
    a. Manufacturer: Wenger Corporation
    b. Product Name: "AcoustiCabinet"
    c. Product Number: #15
    d. Finish: To be selected by Architect from manufacturer's full range.
    e. Storage Capacity: 2 Bass Drums, Field Drums, Snare Drums, Parade Drums, Tri-Toms, Quads, Tubas or Sousaphones (bell detached)
    f. Height: 85.625 inches
    g. Width: 48.5 inches
    h. Depth: 29.25 inches
19. **M-21:** Instrument Storage
    a. Manufacturer: Wenger Corporation
    b. Product Name: "AcoustiCabinet"
    c. Product Number: #17
    d. Finish: To be selected by Architect from manufacturer's full range.
    e. Storage Capacity: 1 Timpani, Chimes, Small Vibes and Xylophones, Marimbas and Gongs
    f. Height: 85.625 inches
    g. Width: 60.5 inches

h. Depth: 39.25 inches

PART 3 - EXECUTION

3.1 CASEWORK INSTALLATION

A. Install plumb, level, and true. Install casework in accordance with manufacturer's printed instructions and recommendations

B. Adjust casework and hardware so doors operate smoothly without warp or bind. Lubricate operating hardware as recommended by manufacturer.

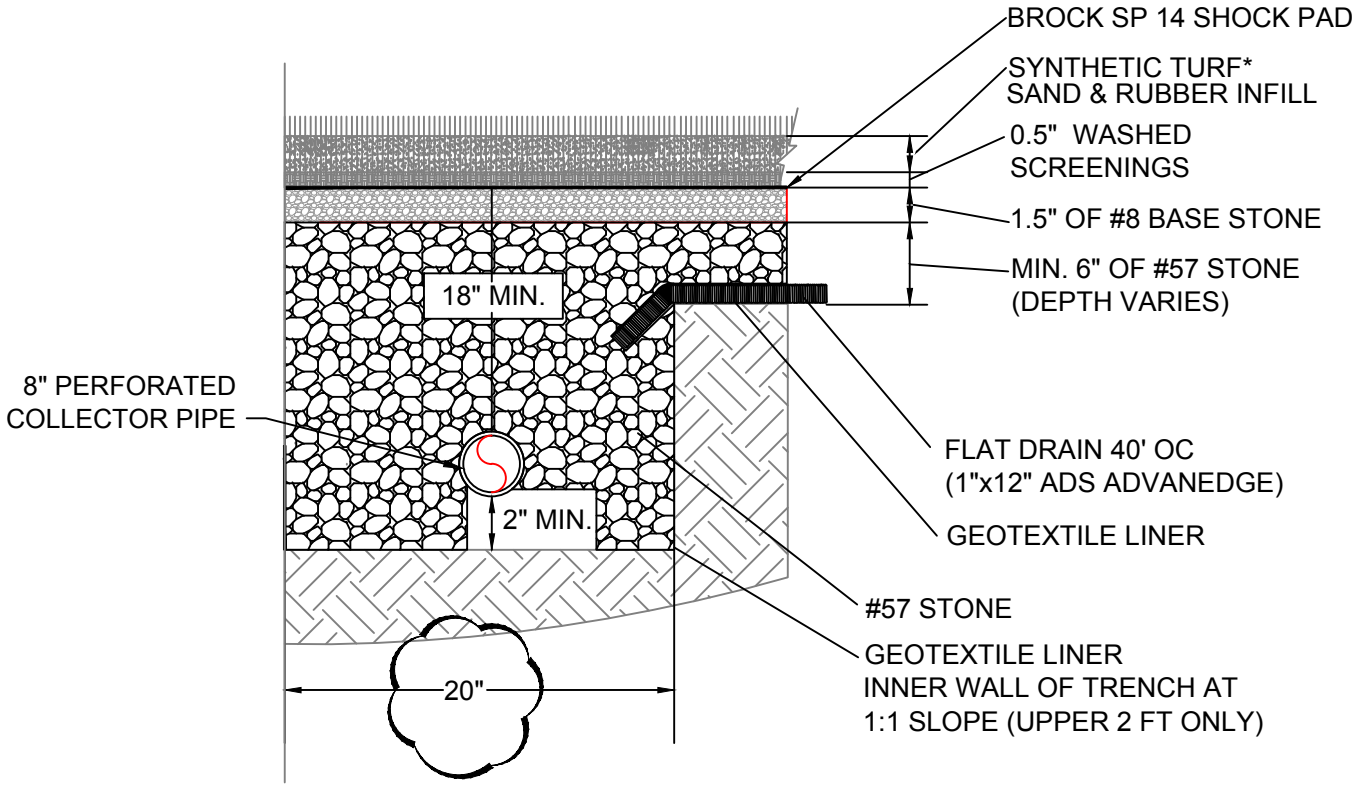
3.2 CLEANING AND PROTECTING

A. Repair or remove and replace defective work as directed on completion of installation.

B. Clean finished surfaces, touch up as required, and remove or refinish damaged or soiled areas to match original factory finish, as approved by Architect.

C. Protection: Provide 6-mil plastic or other suitable water-resistant covering over case tops. Tape covering in place at a minimum of 48 inches o.c. Remove protection at Substantial Completion.

END OF SECTION 123551



*TURF PILE HEIGHT = 2" IN OUTFIELD
1.75" IN INFIELD

BASEBALL SYNTHETIC TURF SECTION

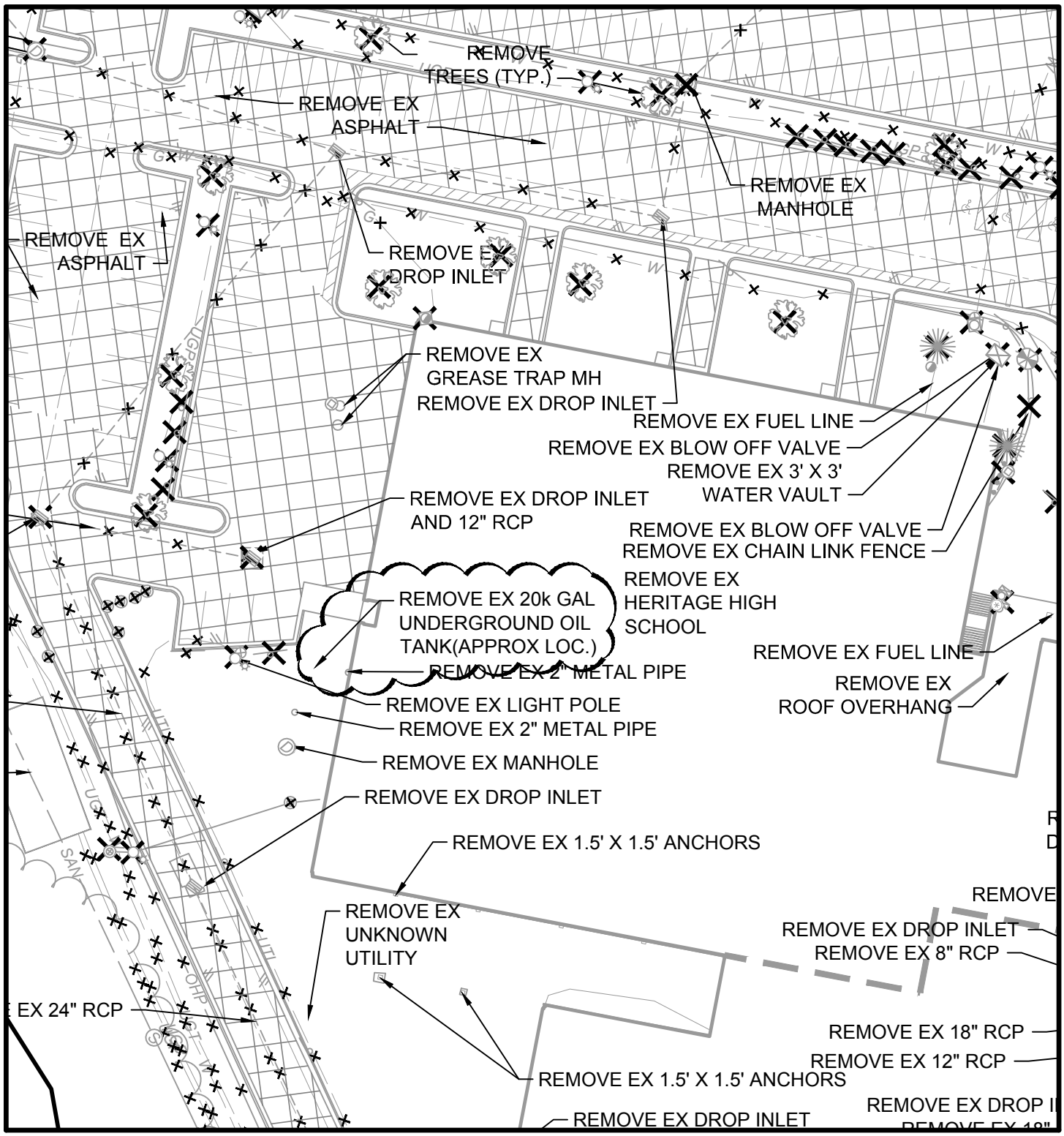
NO SCALE

10" DIA. SECTION OF TURF
CARPET SHALL BE GLUED
TO RAINBIRD CLEANOUT LID

DRAWING TITLE: *TRENCH WIDTH REVISION - C1.12*	PROJECT: **HERITAGE HIGH SCHOOL** **LYNCHBURG, VA 24502**

MOSELEYARCHITECTS
3200 NORFOLK STREET, RICHMOND, VIRGINIA, 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

DRAWN BY:	ATTACHMENT TO:	DWG. NO:
JWM		**AD-3**
DATE: *02/24/14*	PROJECT NO: *520910*	**C1.12**



DRAWING TITLE:
OIL TANK DEMOLITION REVISION - C2.02

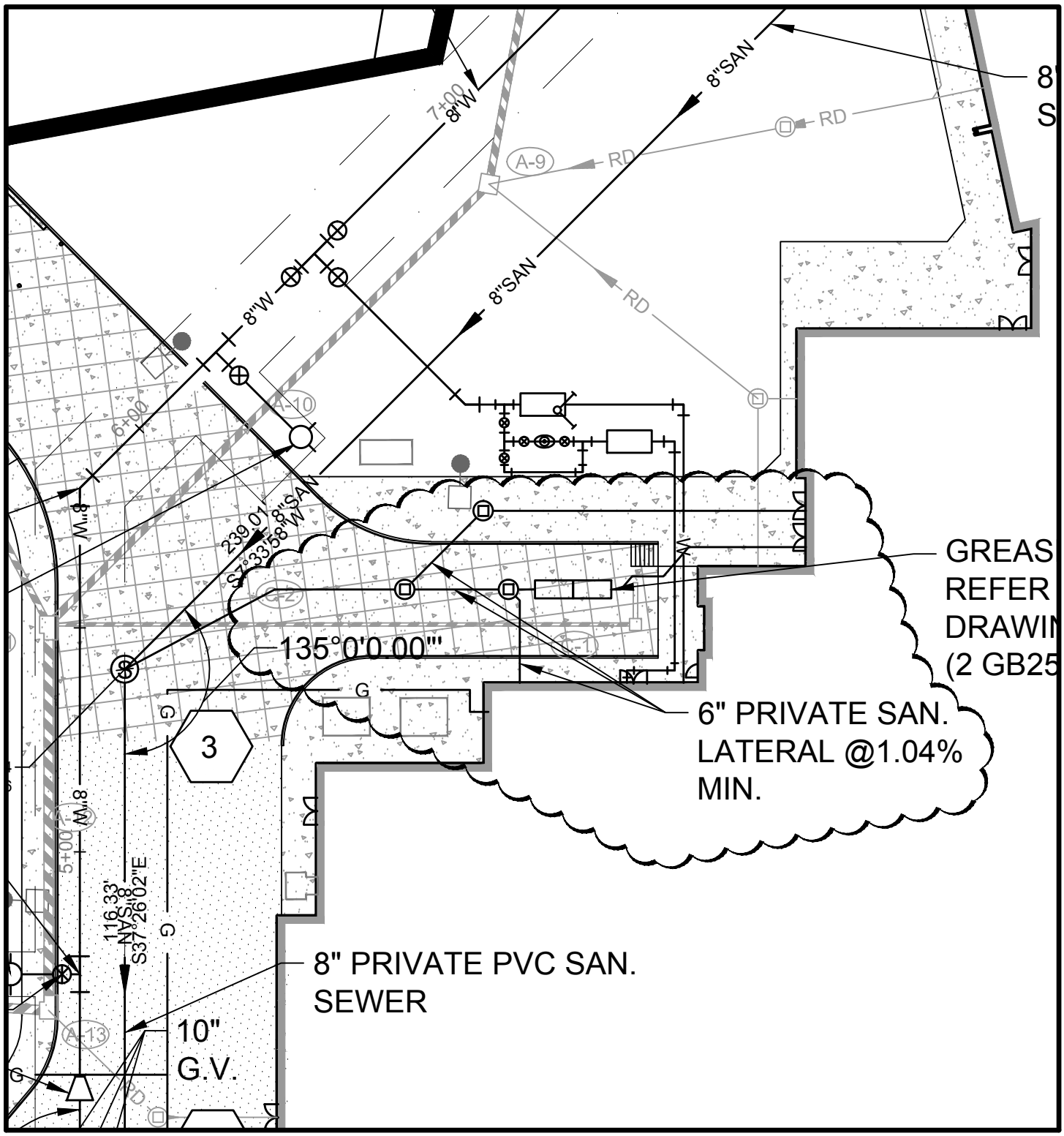
PROJECT:
HERITAGE HIGH SCHOOL

LYNCHBURG, VA 24502

MOSELEYARCHITECTS

3200 NORFOLK STREET, RICHMOND, VIRGINIA, 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

DRAWN BY:	ATTACHMENT TO:	DWG. NO:
JWM		**AD-3 C2.02**
DATE: *02/24/14*	PROJECT NO: *520910*	



DRAWING TITLE:
SANITARY LATERALS REVISION - C3.3

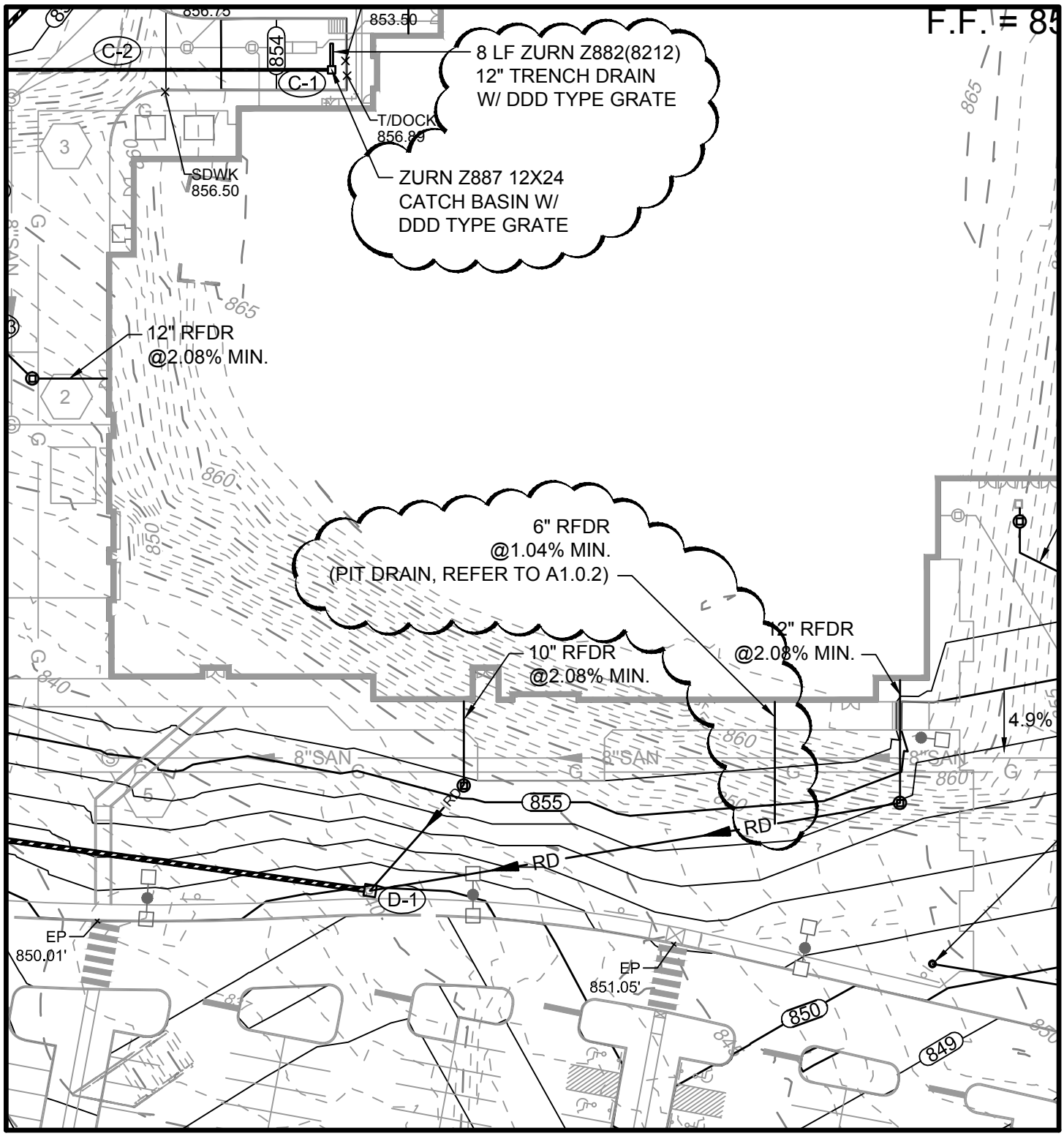
PROJECT:
HERITAGE HIGH SCHOOL

LYNCHBURG, VA 24502

MOSELEYARCHITECTS

3200 NORFOLK STREET, RICHMOND, VIRGINIA, 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

DRAWN BY:	ATTACHMENT TO:	DWG. NO:
JWM		**AD-3**
DATE:	PROJECT NO:	**C3.3**
02/24/14	*520910*	



DRAWING TITLE:

INTERIOR PIT DRAIN & LOADING DOCK TRENCH DRAIN REVISION - C4.0

PROJECT:

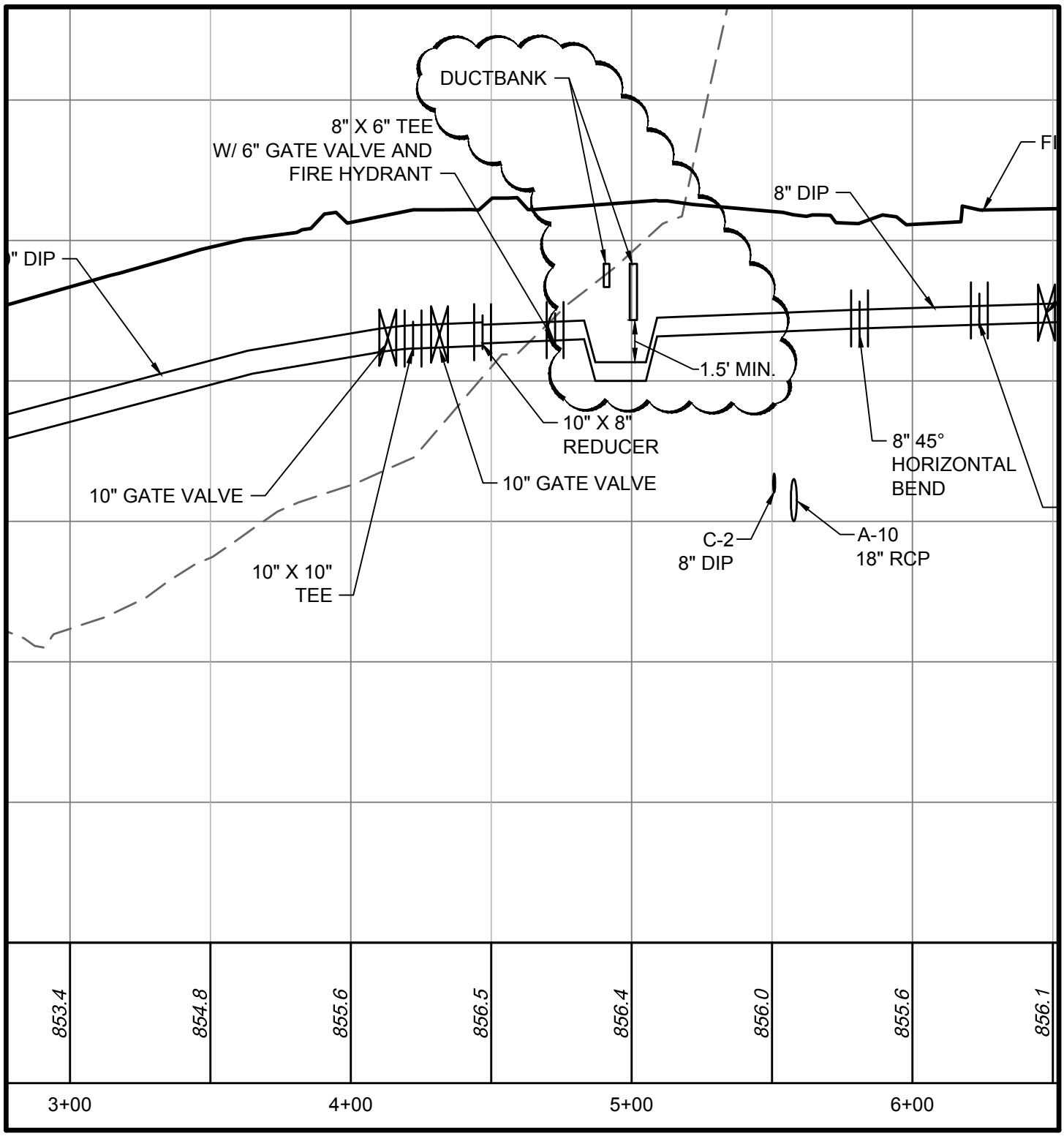
HERITAGE HIGH SCHOOL

LYNCHBURG, VA 24502

MOSELEYARCHITECTS

3200 NORFOLK STREET, RICHMOND, VIRGINIA, 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

DRAWN BY:	ATTACHMENT TO:	DWG. NO:
JWM		**AD-3**
DATE:	PROJECT NO:	**C4.0**
02/24/14	*520910*	



DRAWING TITLE:
WATER LINE DUCTBANK REVISION - C5.2

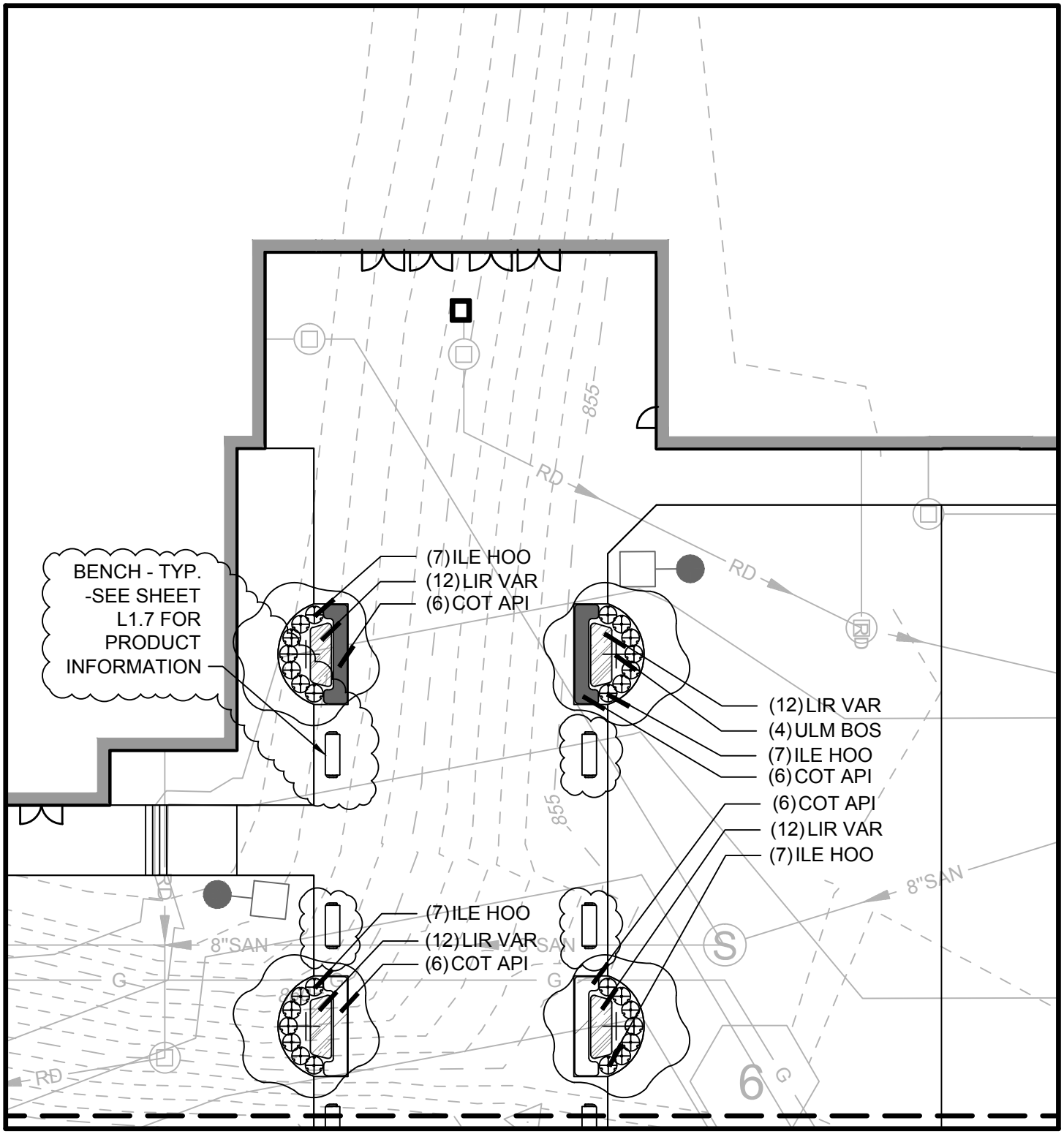
PROJECT:
HERITAGE HIGH SCHOOL

LYNCHBURG, VA 24502

MOSELEYARCHITECTS

3200 NORFOLK STREET, RICHMOND, VIRGINIA, 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

DRAWN BY:	ATTACHMENT TO:	DWG. NO:
JWM		**AD-3**
DATE:	PROJECT NO:	**C5.2**
02/24/14	*520910*	



DRAWING TITLE:

BENCH ADDITIONS TO STUDENT PARKING LOT
BUILDING ENTRANCE - PLANTING PLAN L1.4

PROJECT:

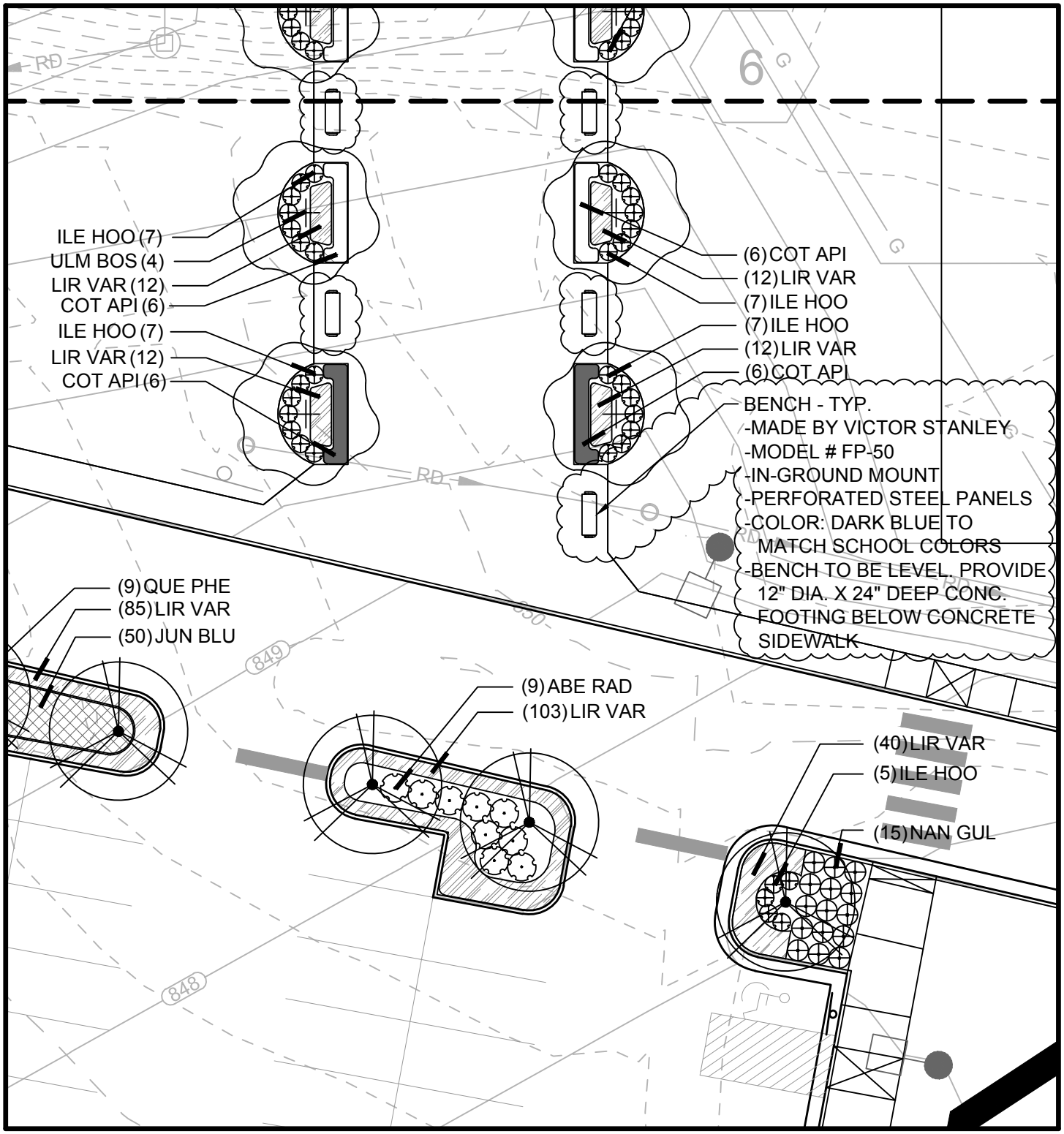
HERITAGE HIGH SCHOOL

LYNCHBURG, VA 24502

MOSELEYARCHITECTS

3200 NORFOLK STREET, RICHMOND, VIRGINIA, 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

DRAWN BY:	ATTACHMENT TO:	DWG. NO:
MMP		**AD-3**
DATE:	PROJECT NO:	**L1.4**
02/26/14	*520910*	



DRAWING TITLE:

BENCH ADDITIONS TO STUDENT PARKING LOT
BUILDING ENTRANCE - PLANTING PLAN L1.7

PROJECT:

HERITAGE HIGH SCHOOL

LYNCHBURG, VA 24502

MOSELEYARCHITECTS

3200 NORFOLK STREET, RICHMOND, VIRGINIA, 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

DRAWN BY:	ATTACHMENT TO:	DWG. NO:
MMP		**AD-3 L1.7**
DATE: *02/26/14*	PROJECT NO: *520910*	

FINISH SCHEDULE

NUMBER	NAME	FLOOR	BASE	WALLS				WAINSCOT	CEILING	NOTES
				NORTH	EAST	SOUTH	WEST			
A01	CORRIDOR	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
A02	CLASSROOM	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
A03	CLASSROOM	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
A04	CLASSROOM	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
A05	CLASSROOM	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
A06	TOILET	CONC-EPX 2	CONC-EPX	EPX	PT/CT	EPX	EPX		ACP-HDC	
A07	TOILET	CONC-EPX 2	CONC-EPX	EPX	EPX	EPX	PT/CT		ACP-HDC	
A08	ELECTRICAL	CONC-SLR	RB	PT	PT	PT	PT		EXPC-PT	
A09	IDF	CONC-SLR	RB	PT	PT	PT	PT		EXPC-PT	
A10	TEACHER CENTER	CONC-POL TYP 1/C1	RB	PT	PT	PT	PT		ACP	
A11	TOILET	CT	CT	EPX-PT	EPX-PT	CT	EPX-PT		ACP	
A12	CLASSROOM	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
A13	CLASSROOM	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
A14	CLASSROOM	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
A15	CLASSROOM	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
A16	STAIR	RSR/RST	RB	PT	PT	PT	PT		ACP-HDC	
A17	MARKETING	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
A18	BUSINESS	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
A19	BUSINESS	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
A20	MEDIA CENTER	RFT-CT1/CT2	WD-RB	PT	PT	PT	PT		ACP	
A20A	STORAGE	CONC-SLR	RB	PT	PT	PT	PT		ACP	
A21	TOILET	CT	CT	EPX-PT	EPX-PT	EPX-PT	CT		ACP	
A22	CONFERENCE	CT3/4	RB	PT	PT	PT	PT		ACP	
A23	OFFICE / WORKROOM	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
A24	MEDIA DISTRIBUTION	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
A25	FORUM	C2-WD	RB	PT	PT	PT	PT		WD	
A26	STORAGE	CONC-SLR	RB	PT	PT	PT	PT		ACP	
A27	STORAGE	CONC-SLR	RB	PT	PT	PT	PT		ACP	
A28	CORRIDOR	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
A29	CORRIDOR	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
A30	CORRIDOR	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
B01	CORRIDOR	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
B02	TECH FOUNDATIONS	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
B02A	STORAGE	CONC-SLR	RB	PT	PT	PT	PT		ACP	
B02B	OFFICE	CT3/4	RB	PT	PT	PT	PT		ACP	
B02C	TV STUDIO	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
B03	EARLY CHILDHOOD	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
B03B	STORAGE	CONC-SLR	RB	PT	PT	PT	PT		ACP	
B03C	TOILET	CT	CT	EPX-PT	EPX-PT	EPX-PT	CT		ACP	
B03D	STORAGE	CONC-SLR	RB	PT	PT	PT	PT		ACP	
B04	STAIR	RSR/RST	RB	PT	PT	PT	PT		ACP-HDC	
B05	TEACHER CENTER	CONC-POL TYP 1/C1	RB	PT	PT	PT	PT		ACP	
B06	TOILET	CT	CT	EPX-PT	EPX-PT	CT	EPX-PT		ACP	
B07	IDF	CONC-SLR	RB	PT	PT	PT	PT		EXPC-PT	
B08	ELECTRICAL	CONC-SLR	RB	PT	PT	PT	PT		EXPC-PT	
B09	TOILET	CONC-EPX 2	CONC-EPX	EPX-PT	CT	EPX-PT	EPX-PT		ACP	
B10	TOILET	CONC-EPX 2	CONC-EPX	EPX-PT	EPX-PT	EPX-PT	CT		ACP	
B11	CLASSROOM	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
B12	CLASSROOM	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
B13	CLASSROOM	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
B14	CLASSROOM	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
B15	VESTIBULE	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
B16	GOV COMMONS	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
B17	GOV SECRETARY	CT3/4	RB	PT	PT	PT	PT		ACP	
B18	GOV MATH	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
B19	STORAGE	CONC-SLR	RB	PT	PT	PT	PT		ACP	
B21	GOV OFFICE	CT3/4	RB	PT	PT	PT	PT		ACP	
B22	TECH LAB	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
B24	GOV OFFICE	CT3/4	RB	PT	PT	PT	PT		ACP	
B25	GOV RESEARCH	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
B27	GOV ANALYTICAL	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
B28	OFFICE	CT3/4	RB	PT	PT	PT	PT		ACP	
B29	GOV ELECTRICAL	CONC-SLR	RB	PT	PT	PT	PT		EXPC-PT	
B30	STORAGE	CONC-SLR	RB	PT	PT	PT	PT		EXPC-PT	
B31	GOV BIOLOGY	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
B32	MICRO LAB	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
B33	SEM LAB	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
B34	OFFICE	CT3/4	RB	PT	PT	PT	PT		ACP	
B35	GOV MATH AND COMPUTER SCIENCE	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
B38	GOV OFFICE	CT3/4	RB	PT	PT	PT	PT		ACP	
B39	SERVER	CONC-SLR	RB	PT	PT	PT	PT		ACP	
B40	GOV OFFICE	CT3/4	RB	PT	PT	PT	PT		ACP	
B41	DIRECTOR OFFICE	CT3/4	RB	PT	PT	PT	PT		ACP	
B42	STORAGE	CONC-SLR	RB	PT	PT	PT	PT		ACP	
B43	CORRIDOR	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
B44	CORRIDOR	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
B45	CORRIDOR	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
C01	RECEIVING / MAINTENANCE WORK	CONC-SLR	RB	PT	PT	PT	PT		EXPC-PT	
C02	VESTIBULE	CONC-POL TYP 2	RB	PT	PT	PT	PT		ACP	
C03	CORRIDOR	CONC-POL TYP 2	RB	PT	PT	PT	PT		ACP	
C04	KITCHEN	CONC-EPX 1	CONC-EPX	PT	PT	PT	PT		ACP-2	
C05	WEIGHT/FITNESS	RSF-RFT	RB	PT	PT	PT	PT		EXPC-PT	
C06	SECRETARY	CT3/4	RB	PT	PT	PT	PT		ACP	
C07	ATHLETIC DIRECTOR	CT3/4	RB	PT	PT	PT	PT		ACP	
C08	STAIR	RSR/RST	RB	PT	PT	PT	PT		ACP-HDC	
C09	CLASSROOM	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
C10	CLASSROOM	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
C11	CLASSROOM	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
C12	OFFICE	CT3/4	RB	PT	PT	PT	PT		ACP	
C13	WAITING	CT3/4	RB	PT	PT	PT	PT		ACP	
C14	ASSIT PRINCIPAL OFFICE	CT3/4	RB	PT	PT	PT	PT		ACP	
C15	CONFERENCE	CT3/4	RB	PT	PT	PT	PT		ACP	
C16	CLASSROOM	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
C17	CLASSROOM	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
C18	CLASSROOM	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
C19	VESTIBULE	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
C20	CULINARY	CONC-EPX 1	CONC-EPX	PT	PT	PT	PT		ACP-2	
C20A	STORAGE	CONC-EPX 1	CONC-EPX 1	PT	PT	PT	PT		ACP	
C20B	STORAGE	CONC-EPX 1	CONC-EPX 1	PT	PT	PT	PT		ACP	
C20C	STORAGE	CONC-EPX 1	CONC-EPX 1	PT	PT	PT	PT		ACP	
C21	CORRIDOR	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
C22	OFFICE	CT3/4	RB	PT	PT	PT	PT		ACP	
C23	ART 2D	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
C24	STORAGE	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
C25	CERAMICS	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
C26	ART 3D	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
C27	KILN	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
C28	STORAGE	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
C28A	ELECTRICAL	CONC-SLR	RB	PT	PT	PT	PT		EXPC-PT	
C29	CUSTODIAN	CONC-SLR	RB	PT	PT	PT	PT		ACP	
C30	STORAGE	CONC-EPX 1	RB	PT	PT	PT	PT		ACP	
C31	LOCKER	CONC-EPX 1	CONC-EPX 1	PT	PT	PT	PT		ACP-2	
C32	TOILET	CONC-EPX 2	CONC-EPX 1	EPX-PT	CT	EPX-PT	EPX-PT		ACP-2	
C33	OFFICE	CONC-EPX 1	CONC-EPX 1	PT	PT	PT	PT		ACP	
C34	JANITOR	CONC-SLR	RB	PT	PT	PT	PT		ACP	
C35	CUSTODIAL STORAGE	CONC-SLR	RB	PT	PT	PT	PT		EXPC-PT	
C36	CORRIDOR	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
C37	CORRIDOR	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
C38	LOCKER BAY	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
D01	VESTIBULE	CONC-POL TYP 2	RB	PT	PT	PT	PT		ACP	
D02	CORRIDOR	CONC-POL TYP 2	RB	PT	PT	PT	PT		ACP	
D03	RECEPTION/ WAITING AREA	CONC-POL TYP 2	RB	PT	PT	PT	PT		ACP	
D04	CONFERENCE	CT3/4	RB	PT	PT	PT	PT		ACP	
D05	PRINCIPAL'S SECRETARY	C4	RB	PT	PT	PT	PT		ACP	
D06	WORKROOM	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
D07	TEACHER'S MAILROOM	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
D08	WAITING	CT3/4	RB	PT	PT	PT	PT		ACP	
D09	DIRECTOR'S OFFICE	CT3/4	RB	PT	PT	PT	PT		ACP	
D10	CORRIDOR	CT3/4	RB	PT	PT	PT	PT		ACP	
D11	RECORD STORAGE	CT3/4	RB	PT	PT	PT	PT		ACP	
D12	OFFICE	CT3/4	RB	PT	PT	PT	PT		ACP	
D13	CONFERENCE ROOM	CT3/4	RB	PT	PT	PT	PT		ACP	
D14	OFFICE	CT3/4	RB	PT	PT	PT	PT		ACP	
D15	OFFICE	CT3/4	RB	PT	PT	PT	PT		ACP	
D16	OFFICE	CT3/4	RB	PT	PT	PT	PT		ACP	
D17	OFFICE	CT3/4	RB	PT	PT	PT	PT		ACP	
D18	RECEPTION/ WAITING	CT3/4	RB	PT	PT	PT	PT		ACP	
D19	TOILET	CT	CT	EPX-PT	CT	EPX-PT	EPX-PT		ACP	
D21	EXAM	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
D22	RECOVERY	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
D23	RECOVERY	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
D24	NURSES OFFICE	CONC-POL TYP 2	RB	PT	PT	PT	PT		ACP	
D25	FACULTY DINING	RFT	RB	PT	PT	PT	PT		ACP	
D26	VESTIBULE	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
D27	WAITING	CONC-POL TYP 2	RB	PT	PT	PT	PT		ACP	
D28	CAREER INFORMATION CENTER	CT3/4	RB	PT	PT	PT	PT		ACP	
D29	BEACON OF HOPE COORDINATOR	CT3/4	RB	PT	PT	PT	PT		ACP	
D30	ATTENDANCE CLERK	CONC-POL TYP 2	RB	PT	PT	PT	PT		ACP	
D30A	ATTENDANCE SECRETARY	CT3/4	RB	PT	PT	PT	PT		ACP	
D31	RESOURCE OFFICER	CT3/4	RB	PT	PT	PT	PT		ACP	
D32	ATTENDANCE COORDINATOR	C3/4	RB	PT	PT	PT	PT		ACP	
D33	IT HELP	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
D34	COMPUTER	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
D35	STAIR	RSR/RST	RB	PT	PT	PT	PT		ACP-HDC	
D36	OFFICE	CT3/4	RB	PT	PT	PT	PT		ACP	
D37	WAITING	CT3/4	RB	PT	PT	PT	PT		ACP	
D38	CONFERENCE	CT3/4	RB	PT	PT	PT	PT		ACP	
D39	ASSIT PRINCIPAL OFFICE	CT3/4	RB	PT	PT	PT	PT		ACP	

FINISH SCHEDULE

NUMBER	NAME	FLOOR	BASE	WALLS				WAINSCOT	CEILING	NOTES
				NORTH	EAST	SOUTH	WEST			
D40	CLASSROOM	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
D41	CLASSROOM	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
D42	CLASSROOM	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
D43	CORRIDOR	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
D44	JANITOR	CONC-SLR	RB	PT	PT	PT	PT		ACP	
D45	TOILET	CT	CT	EPX-PT	EPX-PT	CT	EPX-PT		ACP	
D46	TOILET	CONC-EPX 2	CT	EPX-PT	CT	EPX-PT	EPX-PT		ACP	
D47	TOILET	CONC-EPX 2	CT	EPX-PT	CT	EPX-PT	PT		ACP	
D48	TECH LAB	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
D49	GOV MATH	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
D50	GOV CHEMISTRY	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
D51	CHEMICAL PREP ROOM	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
D53	GOV OFFICE	CT3/4	RB	PT	PT	PT	PT		ACP	
D54	GOV PHYSICS	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
D55	TECH LAB	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
D56	GOV OFFICE	CT3/4	RB	PT	PT	PT	PT		ACP	
D57	TECH LAB	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
D58	TECH LAB	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
D59	ELEVATOR ROOM	CONC-SLR	RB	PT	PT	PT	PT		EXPC-PT	
D60	COMPUTER STORAGE	CONC-SLR	RB	PT	PT	PT	PT		ACP	
D61	JANITOR	CONC-SLR	RB	PT	PT	PT	PT		ACP	
D62	CORRIDOR	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
D63	CORRIDOR	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
D64	LOCKER BAY	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
E01	CORRIDOR	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
E02	OFFICE	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
E03	TOILET	CONC-EPX 2	CONC-EPX	EPX-PT	CT	EPX-PT	EPX-PT		ACP-2	
E04	TOILET	CONC-EPX 2	CONC-EPX	EPX-PT	EPX-PT	EPX-PT	CT		ACP-2	
E05	GIRLS LOCKER ROOM	CONC-EPX 2	RB	PT	PT	PT	PT		ACP-2	
E05A	VESTIBULE	CONC-EPX 2	RB	PT	PT	PT	PT		ACP-2	
E06	PHYSICAL EDUCATION OFFICE	CONC-EPX 2	RB	PT	PT	PT	PT		ACP-2	
E07	TOILET	CONC-EPX 2	CONC-EPX	EPX-PT	CT	CT	EPX-PT		ACP-2	
E07A	LOCKER	CONC-EPX 2	RB	PT	PT	PT	PT		ACP-2	
E08	GIRLS TOILET	CONC-EPX 2	CONC-EPX	CT	CT	CT	CT		ACP-2	
E09	COACHES OFFICE	CONC-EPX 2	RB	PT	PT	PT	PT		ACP-2	
E10	GIRLS TOILET	CONC-EPX 2	CONC-EPX	CT	CT	CT	CT		ACP-2	
E11	GIRLS TEAM ROOM	CONC-EPX 2	RB	PT	PT	PT	PT		ACP-2	
E11A	VESTIBULE	CONC-EPX 2	RB	PT	PT	PT	PT		ACP-2	
E11B	STORAGE	CONC-EPX 2	RB	PT	PT	PT	PT		ACP-2	
E12	CLOTHING STORAGE	CONC-SLR	RB	PT	PT	PT	PT		ACP	
E13	ROTC OFFICE	CT3/4	RB	PT	PT	PT	PT		ACP	
E13A	TRAINING AID STORAGE	CONC-SLR	RB	PT	PT	PT	PT		ACP	
E14	ARMORY	CONC-SLR	RB	PT	PT	PT	PT		ACP	
E15	TRAINING	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
E16	ROTC	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
E17	ROTC	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
E18	BOYS TEAM ROOM	CONC-EPX 2	RB	PT	PT	PT	PT		ACP-2	
E18A	STORAGE	CONC-EPX 2	RB	PT	PT	PT	PT		ACP-2	
E19	BOYS TOILET	CONC-EPX 2	CONC-EPX	CT	CT	CT	CT		ACP-2	
E20	COACHES OFFICE	CONC-EPX 2	RB	PT	PT	PT	PT		ACP-2	
E21	BOYS TOILET	CONC-EPX 2	CONC-EPX	CT	CT	CT	CT		ACP-2	
E22	TOILET	CONC-EPX 2	RB	EPX-PT	EPX-PT	CT	CT		ACP-2	
E22A	LOCKER	CONC-EPX 2	RB	PT	PT	PT	PT		ACP-2	
E23	PHYSICAL EDUCATION OFFICE	CONC-EPX 2	RB	PT	PT	PT	PT		ACP-2	
E24	BOYS LOCKER ROOM	CONC-EPX 2	RB	PT	PT	PT	PT		ACP-2	
E24A	VESTIBULE	CONC-EPX 2	RB	PT	PT	PT	PT		ACP-2	
E25	EQUIPMENT STORAGE	CONC-POL TYP 2/C1	RB	PT	PT	PT	PT		ACP-2	
E26	LAUNDRY	CONC-EPX 2	RB	PT	PT	PT	PT		ACP-2	
E27	TRAINING	CONC-EPX PT 2	RB	EPX-PT	EPX-PT	EPX-PT	EPX-PT		ACP-2	
E28	GYM STORAGE	CONC-SLR	RB	PT	PT	PT	PT		ACP	
E29A	OFFICE	CONC-SLR	RB	PT	PT	PT	PT		ACP	
E29B	LOCKER	CONC-SLR	RB	PT	PT	PT	PT		ACP	
E30	BUILDING TRADES	CONC-SLR	RB	PT	PT	PT	PT		EXPC-PT	
E31	LUMBER/TOOL STORAGE	CONC-SLR	RB	PT	PT	PT	PT		EXPC-PT	
E32	DESIGN AND ENGINEERING LAB	CONC-SLR	RB	PT	PT	PT	PT		EXPC-PT	
E33	DESIGN AND ENGINEERING	CONC-POL TYP 1	RB	PT	PT	PT	PT		EXPC-PT	
E34	ROBOTICS/CLEAN LAB	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
E35	ELECTRICAL	CONC-SLR	RB	PT	PT	PT	PT		EXPC-PT	
E35A	IDF	CONC-SLR	RB	PT	PT	PT	PT		EXPC-PT	
E35B	ELECTRICAL	CONC-SLR	RB	PT	PT	PT	PT		EXPC-PT	
E36	MECHANICAL	CONC-SLR	RB	PT	PT	PT	PT		EXPC-PT	
E37	CORRIDOR	CONC-EPX 2	CONC-EPX	PT	PT	PT	PT		ACP-2	
E37A	VESTIBULE	CONC-EPX 2	CONC-EPX	PT	PT	PT	PT		ACP-2	
E38	CORRIDOR	CONC-EPX 2	CONC-EPX	PT	PT	PT	PT		ACP-2	
E38A	VESTIBULE	CONC-EPX 2	CONC-EPX	PT	PT	PT	PT		ACP-2	
E39	MECHANICAL	CONC-SLR	RB	PT	PT	PT	PT		ACP	
E40	LOCKER ROOM	CONC-EPX 2	RB	PT	PT	PT	PT		ACP-2	
E41	TOILET	CT	CT	EPX-PT	EPX-PT	EPX-PT	EPX-PT		ACP	
E42	JANITOR	CONC-SLR	RB	PT	PT	PT	PT		EXPC-PT	
E43	JANITOR	CONC-SLR	RB	PT	PT	PT	PT		EXPC-PT	
E44	CORRIDOR	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
E45	CORRIDOR	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
E46	CORRIDOR	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
F01A	GYMNASIUM	WD/RSF	MRF-VENTED	PT	PT	PT	PT		EXPC-PT	
F01B	GYMNASIUM	WD/RSF	MRF-VENTED	PT	PT	PT	PT		EXPC-PT	
F02	GYM STORAGE	CONC-SLR	RB	PT	PT	PT	PT		EXPC-PT	
F03	GYM STORAGE	CONC-SLR	RB	PT	PT	PT	PT		EXPC-PT	
F04	NOT USED	--	--	--	--	--	--	--	--	
F05	JANITOR	CONC-SLR	RB	PT	PT	PT	PT		ACP	
F06	VENDING	CONC-POL TYP 2	RB	PT	PT	PT	PT		ACP	
F07	TICKETS	CONC-SLR	RB	PT	PT	PT	PT		ACP	
F08	CONCESSION	CONC-SLR	RB	EPX-PT	EPX-PT	EPX-PT	EPX-PT		ACP-2	
F09	SERVING LINE	CONC-POL TYP 2	RB	PT	PT	PT	PT		ACP-2	
F10	DINING	CONC-POL TYP 2	RB	PT	PT	PT	PT		ACP-GB	
F11	VESTIBULE	CONC-POL TYP 2	RB	PT	PT	PT	PT		ACP-GB	
F12	ELECTRICAL	CONC-SLR	RB	PT	PT	PT	PT		EXPC-PT	
F12A	IDF	CONC-SLR	RB	PT	PT	PT	PT		EXPC-PT	
FH01	CONCESSIONS	CONC-SLR	RB	EPX-PT	EPX-PT	EPX-PT	EPX-PT		ACP-2	
FH02	STORAGE	CONC-SLR	--	PT	PT	PT	PT		EXPC-PT	
FH03	GROUNDS STORAGE	CONC-SLR	--	PT	PT	PT	PT		EXPC-PT	
FH04	TOILET	CONC-SLR	--	EPX-PT	EPX-PT	EPX-PT	EPX-PT		ACP2-HDC	
FH05	WOMEN'S TOILET	CONC-SLR	--	EPX-PT	EPX-PT	EPX-PT	EPX-PT		ACP2-HDC	
FH06	ELECTRICAL	CONC-SLR	--	PT	PT	PT	PT		EXPC-PT	
FH07	IRRIGATION	CONC-SLR	--	PT	PT	PT	PT		EXPC-PT	
FH08	MEN'S TOILET	CONC-SLR	--	EPX-PT	EPX-PT	EPX-PT	EPX-PT		ACP2-HDC	
FH09	STORAGE	CONC-SLR	--	PT	PT	PT	PT		EXPC-PT	
FH10	TRAINING ROOM	CONC-SLR	--	EPX-PT	EPX-PT	EPX-PT	EPX-PT		ACP-2	
FH11	CUSTODIAL	CONC-SLR	--	PT	PT	PT	PT		EXPC-PT	
FH12	TOILET	CONC-SLR	--	EPX-PT	EPX-PT	EPX-PT	EPX-PT		ACP2-HDC	
FH13	ATHLETIC STORAGE	CONC-SLR	--	PT	PT	PT	PT		EXPC-PT	
FH14	LOCKER	CONC-SLR	--	EPX-PT	EPX-PT	EPX-PT	EPX-PT		ACP2-HDC	
G01	TOILET	CONC-EPX 2	CT	PT/CT	PT/CT	PT/CT	PT/CT	5'-0"	ACP	
G02	CORRIDOR	C2	RB	PT	PT	PT	PT		ACP-GB	
G03	SCHOOL STORE	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
G04	CORRIDOR	C2	RB	PT	PT	PT	PT		ACP-GB	
G05	TOILET	CONC-EPX 2	CT	PT/CT	PT/CT	PT/CT	PT/CT	5'-0"	ACP	
G06	AUDITORIUM	C2-WD	RB	PT-WD-BR	PT-WD-BR	PT-WD-BR	PT-WD-BR		EXPC-PT	AWP
G07	STORAGE	CONC-SLR	RB	PT	PT	PT	PT		EXPC-PT	
G09	STAGE	WD	RB	PT-WD-BR	PT-WD-BR	PT-WD-BR	PT-WD-BR		EXPC-PT	
G10	DRESSING	CONC-EPX 2	CONC-EPX	PT	PT	PT	PT		ACP	
G11	TOILET	CT	CT	EPX-PT	EPX-PT	EPX-PT	CT		ACP	
G12	TOILET	CT	CT	EPX-PT	CT	EPX-PT	EPX-PT		ACP	
G13	DRESSING	CONC-EPX 2	RB	PT	PT	PT	PT		ACP	
G14	CORRIDOR	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
G15	ELECTRICAL	CONC-SLR	RB	PT	PT	PT	PT		EXPC-PT	
G16	FAMILY TOILET	CT	CT	CT	EPX-PT	EPX-PT	EPX-PT		ACP	
G17	CUSTODIAN	CONC-SLR	RB	PT	PT	PT	PT		EXPC-PT	
G18	CORRIDOR	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
G19	KITCHEN	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
G20	CORRIDOR	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
G21	COPY ROOM	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
G22	PRINCIPAL'S OFFICE	CT3/4	RB	PT	PT	PT	PT		ACP	
G23	BOOKKEEPER	CT3/4	RB	PT	PT	PT	PT		ACP	
G24	ASSOCIATE PRINCIPAL	CT3/4	RB	PT	PT	PT	PT		ACP	
G25	RECORDS STORAGE	CONC-SLR	RB	PT	PT	PT	PT		ACP	
G26	CLOSET	CONC-SLR	RB	PT	PT	PT	PT		ACP	
G27	TOILET	CT	CT	EPX-PT	EPX-PT	EPX-PT	CT		ACP	
G28	TOILET	CT	CT	EPX-PT	EPX-PT	EPX-PT	CT		ACP	
G29	DATA CENTER	CONC-SLR	RB	PT	PT	PT	PT		EXPC-PT	
G30	DRAMA	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
G31	OFFICE	CT3/4	RB	PT	PT	PT	PT		ACP	
G32	CORRIDOR	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
G33	BAND	RFT	RB	PT	PT	PT	PT		ACP	
G34	INSTRUMENT STORAGE	RFT	RB	PT	PT	PT	PT		ACP	
G35	UNIFORM STORAGE	RFT	RB	PT	PT	PT	PT		ACP	
G36	OFFICE/ LIBRARY	RFT	RB	PT	PT	PT	PT		ACP	
G37	PRACTICE ROOM	RFT	RB	PT	PT	PT	PT		ACP	
G38	PRACTICE ROOM	RFT	RB	PT	PT	PT	PT		ACP	
G39	ORCHESTRA	RFT	RB	PT	PT	PT	PT		ACP	
G40	OFFICE/ LIBRARY	RFT	RB	PT	PT	PT	PT		ACP	
G41	CHORUS	RFT	RB	PT	PT	PT	PT		ACP	
G42	OFFICE/ LIBRARY	RFT	RB	PT	PT	PT	PT		ACP	

FINISH SCHEDULE

NUMBER	NAME	FLOOR	BASE	WALLS				WAINSCOT	CEILING	NOTES
				NORTH	EAST	SOUTH	WEST			
G43	STORAGE	CONC-SLR	RB	PT	PT	PT	PT		ACP	
G44	JANITOR	CONC-SLR	RB	PT	PT	PT	PT		ACP	
G45	CORRIDOR	CONC-POL TYP 2	RB	PT	PT	PT	PT		ACP	
G46	CORRIDOR	CONC-POL TYP 2	RB	PT	PT	PT	PT		ACP	
G47	CORRIDOR	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
H01	STAIR	RSR/RST	RB	PT	PT	PT	PT		ACP-HDC	
H02	CORRIDOR	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
H03	MARKETING	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
H04	CLASSROOM	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
H05	CLASSROOM	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
H06	SUPPORT	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
H07	MEDIA CENTER	CT1/2	RB	PT	PT	PT	PT		ACP	
H08	SCIENCE	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
H09	PREP	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
H10	SCIENCE	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
H11	PREP	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
H12	TEACHER CENTER	CONC-POL TYP 1/C1	RB	PT	PT	PT	PT		ACP	
H13	IDF	CONC-SLR	RB	PT	PT	PT	PT		EXPC-PT	
H14	ELECTRICAL	CONC-SLR	RB	PT	PT	PT	PT		EXPC-PT	
H15	TOILET	CT	CT	EPX-PT	EPX-PT	CT	EPX-PT		ACP	
H16	TOILET	CONC-EPX 2	CONC-EPX	EPX-PT	EPX-PT	EPX-PT	CT		ACP	
H17	TOILET	CONC-EPX 2	CONC-EPX	EPX-PT	CT	EPX-PT	EPX-PT		ACP	
H18	PREP	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
H19	SCIENCE	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
H20	PREP	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
H21	STORAGE	CONC-SLR	RB	PT	PT	PT	PT		ACP	
H22	SCIENCE	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
H23	CORRIDOR	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
H24	CORRIDOR	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
J01	CORRIDOR	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
J02	COMPUTER/ MULTI MEDIA	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
J03	COSMETOLOGY	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
J03A	OFFICE	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
J03B	STORAGE	CONC-SLR	RB	PT	PT	PT	PT		ACP	
J04	HEALTH OCCUPATIONS	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
J04A	HEALTH	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
J04B	STORAGE	CONC-SLR	RB	PT	PT	PT	PT		ACP	
J05	STAIR	RSR/RST	RB	PT	PT	PT	PT		ACP-HDC	
J06	CLASSROOM	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
J07	CLASSROOM	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
J08	CLASSROOM	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
J09	CLASSROOM	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
J10	TEACHER CENTER	CONC-POL TYP 1/C1	RB	PT	PT	PT	PT		ACP	
J11	TOILET	CT	CT	EPX-PT	EPX-PT	CT	EPX-PT		ACP	
J12	TOILET	CONC-EPX 2	CONC-EPX	EPX-PT	EPX-PT	EPX-PT	CT		ACP	
J13	TOILET	CONC-EPX 2	CONC-EPX	EPX-PT	CT	EPX-PT	EPX-PT		ACP	
J14	ELECTRICAL	CONC-SLR	RB	PT	PT	PT	PT		EXPC-PT	
J15	IDF	CONC-SLR	RB	PT	PT	PT	PT		EXPC-PT	
J16	CLASSROOM	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
J17	CLASSROOM	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
J18	CLASSROOM	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
J19	CLASSROOM	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
J20	CORRIDOR	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
J21	CORRIDOR	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
J22	CORRIDOR	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
K01	STAIR	RSR/RST	RB	PT	PT	PT	PT		ACP-HDC	
K02	CORRIDOR	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
K03	PHYSICAL SCIENCE LAB	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
K04	SCIENCE	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
K05	PREP	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
K06	SCIENCE	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
K07	WAITING	CT3/4	RB	PT	PT	PT	PT		ACP	
K08	CONFERENCE	CT3/4	RB	PT	PT	PT	PT		ACP	
K09	ASSIT PRINCIPAL OFFICE	CT3/4	RB	PT	PT	PT	PT		ACP	
K10	OFFICE	CT3/4	RB	PT	PT	PT	PT		ACP	
K11	SCIENCE	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
K12	PREP	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
K13	SCIENCE	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
K14	IDF	CONC-SLR	RB	PT	PT	PT	PT		EXPC-PT	
K15	HEALTH	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
K16	HEALTH	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
K17	RESOURCE	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
K18	CLASSROOM	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
K19	CLASSROOM	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
K20	STORAGE	CONC-SLR	RB	PT	PT	PT	PT		ACP	
K21	JANITOR	CONC-SLR	RB	PT	PT	PT	PT		ACP	
K22	CORRIDOR	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
K23	CORRIDOR	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
K24	CORRIDOR	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
K25	LOCKER BAY	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
K26	CORRIDOR	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
L01	CORRIDOR	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
L02	RESOURCE CLASSROOM	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
L03	LIFE SKILLS	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
L04	CLASSROOM	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
L05	CLASSROOM	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
L06	WAITING	CT3/4	RB	PT	PT	PT	PT		ACP	
L07	CONFERENCE	CT3/4	RB	PT	PT	PT	PT		ACP	
L08	ASSIT PRINCIPAL OFFICE	CT3/4	RB	PT	PT	PT	PT		ACP	
L09	OFFICE	CT3/4	RB	PT	PT	PT	PT		ACP	
L10	CLASSROOM	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
L11	CLASSROOM	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
L12	CLASSROOM	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
L13	STAIR	RSR/RST	RB	PT	PT	PT	PT		ACP-HDC	
L14	TEACHER CENTER EXCEPTIONAL EDUCATION	CONC-POL TYP 1/C1	RB	PT	PT	PT	PT		ACP	
L15	TOILET	CT	CT	CT	EPX-PT	EPX-PT	EPX-PT		ACP	
L16	CORRIDOR	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
L17	STORAGE	CONC-SLR	RB	PT	PT	PT	PT		ACP	
L18	SENSORY/AUTISM ROOM	CT3/4	RB	PT	PT	PT	PT		ACP	
L19	SPEECH	CT3/4	RB	PT	PT	PT	PT		ACP	
L20	TESTING/ CONFERENCE	CT3/4	RB	PT	PT	PT	PT		ACP	
L21	TESTING/ CONFERENCE	CT3/4	RB	PT	PT	PT	PT		ACP	
L22	TESTING/ CONFERENCE	CT3/4	RB	PT	PT	PT	PT		ACP	
L23	PSYCHOLOGIST	CT3/4	RB	PT	PT	PT	PT		ACP	
L24	JANITOR	CONC-SLR	RB	PT	PT	PT	PT		ACP	
L25	TOILET	CT	CT	EPX-PT	CT	EPX-PT	EPX-PT		ACP	
L26	LOCKER BAY	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
L27	CORRIDOR	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
L28	CORRIDOR	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
L29	CORRIDOR	CONC-POL TYP 1	RB	PT	PT	PT	PT		ACP	
P01	CONCESSIONS - BASEBALL	CONC-SLR	---	PT	PT	PT	PT		EXPC-PT	
P01A	CONCESSIONS - SOFTBALL	CONC-SLR	---	PT	PT	PT	PT		EXPC-PT	
P02	PRESS BOX - BASEBALL	CONC-SLR	---	PT	PT	PT	PT		EXPC-PT	
P02A	PRESS BOX - SOFTBALL	CONC-SLR	---	PT	PT	PT	PT		EXPC-PT	
P03	FOOTBALL PRESS BOX	CONC-SLR	---	PT	PT	PT	PT		EXPC-PT	

ACCENT FINISH SCHEDULE

APPLIES TO DRAWINGS A3.0.1-A3.0.n

ACCENT FINISH SCHEDULE NOTES:

1. PAINT CHANGES SHALL OCCUR ON INSIDE CORNERS.
2. ALL FACES OF GYPSUM BOARD SOFFITS SHALL BE ACCENT PAINTED. STACKED SOFFITS SHALL HAVE INDIVIDUAL PAINT COLORS WHICH WILL TRANSITION AT INNER CORNERS.
3. ALL ACCENT PAINT COLORS SHALL BE INDICATED ON THE COLOR SCHEDULE.
4. EXPOSED DUCTWORK AND STEEL TRUSSES EACH SHALL HAVE ACCENT PAINT COLORS.
5. CLASSROOMS, LABS, AND TEACHER CENTERS SHALL HAVE AN ACCENT PAINT COLOR ON ONE WALL.
6. CONFERENCE ROOMS, COUNSELORS, WORKROOMS, AND ADMINISTRATIVE OFFICES SHALL HAVE AN ACCENT PAINT COLOR ON ONE WALL.
7. STEEL DOORS AND WNDOW FRAMES SHALL HAVE AN ACCENT PAINT COLOR.
8. PIPE COLUMNS AN STEEL CROSS BRACING SHALL HAVE AN ACCENT PAINT COLOR.

FINISH SCHEDULE GENERAL NOTES

A. FINISH SCHEDULE DESCRIBES ONLY THE BASIC OR PREDOMINANT SURFACE FINISH.

B. PROVIDE SAME FINISHES AS THE ADJACENT SPACE IN ALCOVES AND CONTINUOUS SPACES WITHOUT DESIGNATED SPACE NUMBERS.

C. CASEWORK FINISHES ARE NOT NOTED IN THE FINISH SCHEDULE. REFER TO CASEWORK ELEVATIONS AND SPECIFICATIONS FOR MATERIALS AND FINISHES.

D. DIRECTIONAL WALL FINISH INDICATORS (NORTH, EAST, SOUTH, WEST) REFER TO THE "PLAN" NORTH ORIENTATION.

E. BULKHEADS AND SOFFITS MAY NOT BE INDICATED IN FINISH SCHEDULES. REFER TO RCP DETAILS, AND OTHER DOCUMENTS FOR EXTENT.

F. PROVIDE CONTINUOUS SEALANT BETWEEN INTERIOR SLAB-ON-GRADE AND VERTICAL ELEMENT WHERE JOINT IS NOT CONCEALED BY FINISH BASE OR OTHER CONSTRUCTION.

G. ALL SHOWER STALLS TO RECEIVE MARBLE THRESHOLD, UNO.

H. ALL ELEVATORS AND STAIRS TO RECEIVE RAISED RUBBER TILE.

I. THIS SCHEDULE DOES NOT INDICATE EXTERIOR FINISHES/COLORS.

J. PROVIDE ACCENT PAINT COLOR FOR CMU PILASTERS/PIERS AND GYPSUM BOARD BULKHEADS IN CORRIDORS.

K. REFER TO FLOOR PLANS, REFLECTED CEILING PLANS, WALL SECTIONS, PLAN DETAILS, INTERIOR ELEVATIONS, AND OTHER DOCUMENTS TO DETRMINE BULKHEAD LOCATIONS, VDBS, MIRRORS ACOUSTICAL WALL PANELS, ACP TYPES AND OTHER WALL AND CEILING FINISHES/COLORS NOT INDICATED IN FINISH SCHEDULE.

L. FOR CONCRETE EPOXY 1 AND CONCRETE EPOXY 2 REFER TO SPEC SECTION 096723.

MOSELEYARCHITECTS
3200 NORFOLK STREET, RICHMOND, VA 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

COMMONWEALTH OF VIRGINIA
JAMES M. McCALLA
Lic. No. 006322
ARCHITECT

HERITAGE HIGH SCHOOL

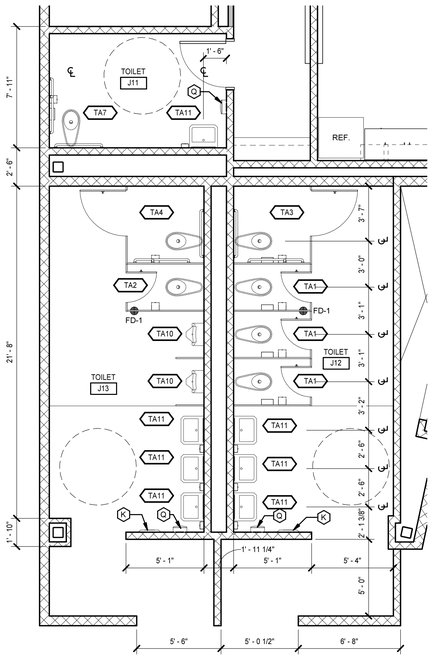
SDE NO.: 115-13-00-100
LYNCHBURG CITY SCHOOLS C.I.P. NO.: YS032
3020 WARDS FERRY ROAD, LYNCHBURG, VA 24502

PROJECT NO: 520910	DATE: FEBRUARY 5, 2014
REVISIONS	
DATE	DESCRIPTION
02/28/2014	ADDENDUM 3

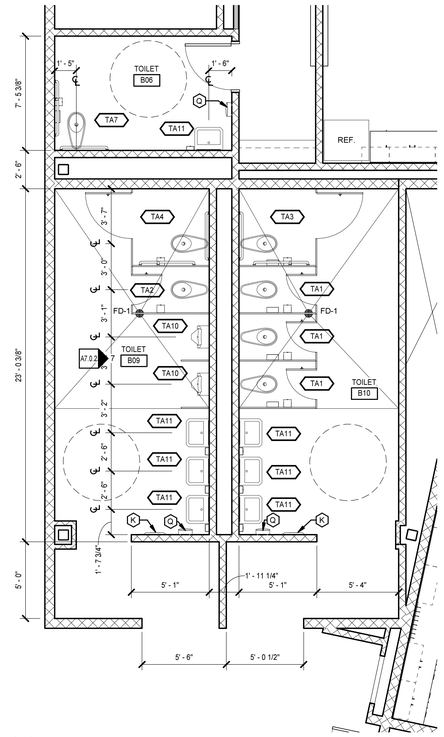
FINISH SCHEDULE

A3.0.1

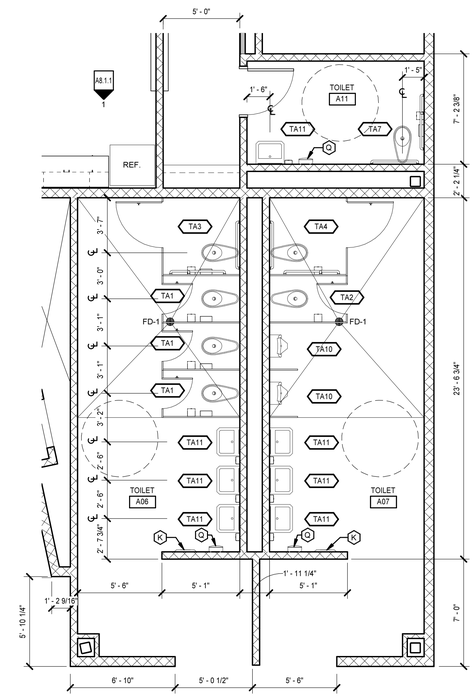
2/26/2014 3:31:39 PM



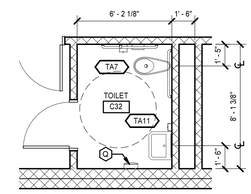
1 A2.1.9 A7.0.2 **TOILET PLAN**
1/4" = 1'-0"



2 A2.1.2 A7.0.2 **TOILET PLAN**
1/4" = 1'-0"



3 A2.1.1 A7.0.2 **TOILET PLAN**
1/4" = 1'-0"



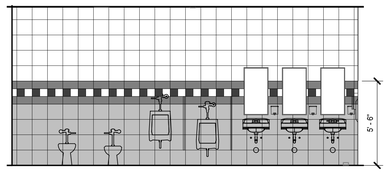
4 A2.1.3 A7.0.2 **TOILET PLAN**
1/4" = 1'-0"

CERAMIC TILE PATTERN LEGEND

CT1: "12 X 12" COLOR: TBD	GWT1: "3 X 6" COLOR: TBD
CT2: "12 X 12" COLOR: TBD	GWT2: "3 X 6" COLOR: TBD
CT3: "6 X 6" COLOR: TBD	GWT3: "2 X 8" COLOR: TBD
CT4: "6 X 6" COLOR: TBD	GWT4: "1/2 X 6" COLOR: TBD
CT5: "6 X 12" COLOR: TBD	GWT5: "1/2 X 6" COLOR: TBD
CT6: "6 X 12" COLOR: TBD	GWT6: "6 X 12" COLOR: TBD
CT7: "13 X 13" COLOR: TBD	

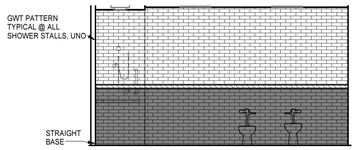
NOTE:

FLOOR PATTERN IN SINGLE STALL TOILETS AND SHOWER STALLS SHALL BE CT7 WITHOUT A PATTERN. BASE SHALL BE CT7 AT THESE LOCATIONS



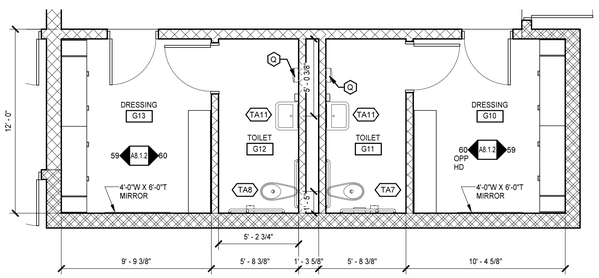
NOTE: TOILET ROOMS D46 AND D47 END TILE PATTERN AT WALL RETURN

7 A2.1.2 A7.0.2 **TYPICAL CT PATTERN - MULTISTALL TOILETS**
1/4" = 1'-0"

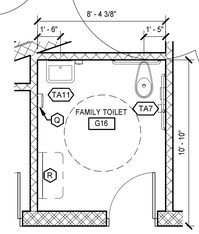


NOTE: SINGLE STALL TOILETS TO HAVE SIMILAR GWT PATTERN ON WALL INDICATED ON A3.0.1

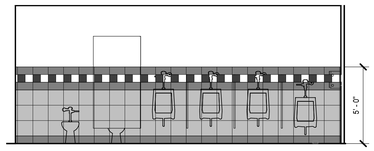
9 A2.1.5 A7.0.2 **ELEVATION - TYPICAL GWT PATTERN TOILET ROOMS E07, E08, E10, E19, E21, E22 AND SHOWER STALLS**
1/4" = 1'-0"



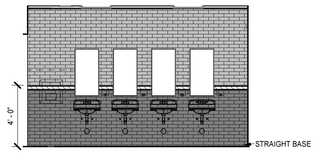
5 A2.1.1 A7.0.2 **AUDITORIUM DRESSING ROOM/TOILETS**
1/4" = 1'-0"



6 A2.1.1 A7.0.2 **AUDITORIUM FAMILY RESTROOM**
1/4" = 1'-0"



8 A2.1.7 A7.0.2 **TYPICAL CT WAINSCOT PATTERN GT01 & GT05**
1/4" = 1'-0"



10 A2.1.5 A7.0.2 **ELEVATION - TYPICAL GWT TOILET ROOM - E07, E08,E10,E19, E21,E22**
1/4" = 1'-0"

MOSELEYARCHITECTS
3200 NORFOLK STREET, RICHMOND, VA 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

COMMONWEALTH OF VIRGINIA
JAMES M. McCALLA
Lic. No. 006322
2014
ARCHITECT

HERITAGE HIGH SCHOOL

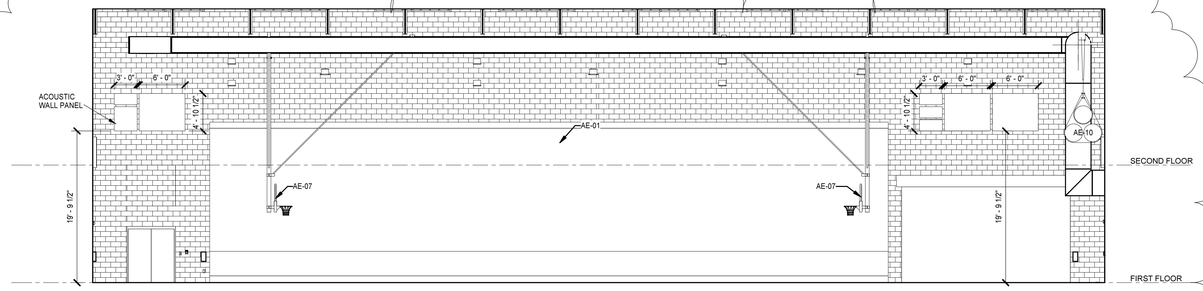
SDE NO.: 115-13-00-100
LYNCHBURG CITY SCHOOLS C.I.P. NO.: YS032
3020 WARDS FERRY ROAD, LYNCHBURG, VA 24502

PROJECT NO: 520910	DATE: FEBRUARY 5, 2014
REVISIONS	
DATE	DESCRIPTION
02/28/2014	ADDENDUM 3

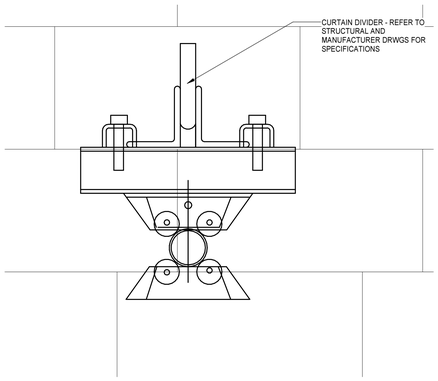
TOILET ASSEMBLIES, SCHEDULE AND ENLARGED PLANS

A7.0.2

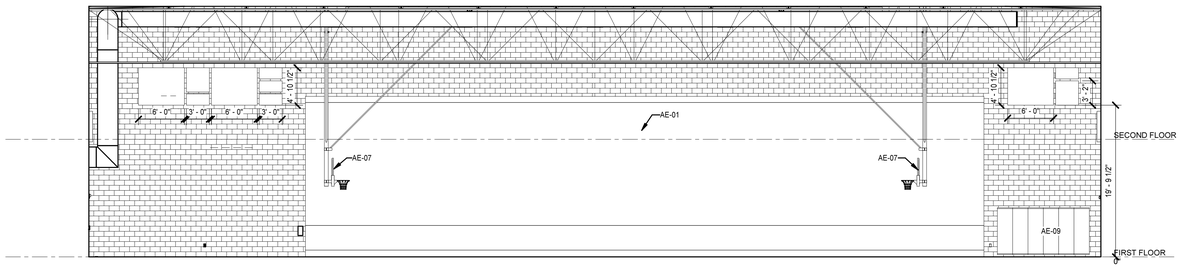
2/28/2014 10:43:19 AM



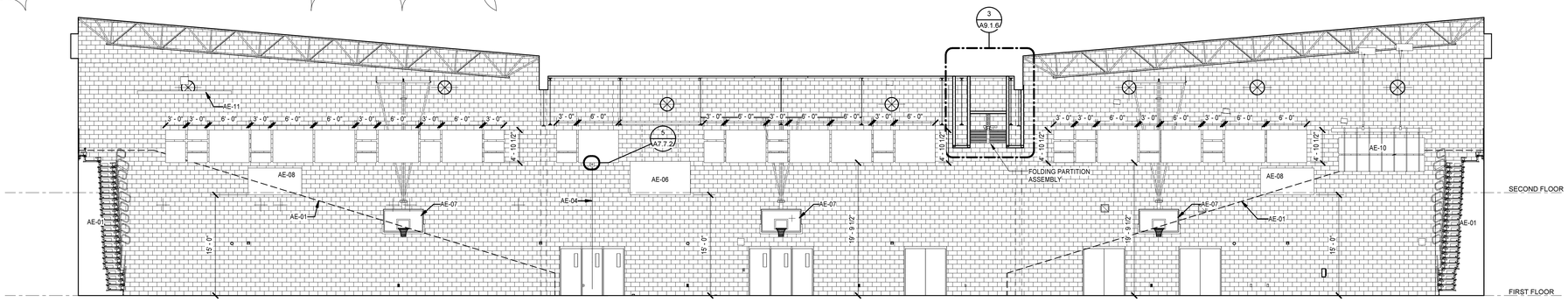
4 A2.1.6 A7.7.2 **INTERIOR ELEVATION**
1/8" = 1'-0"



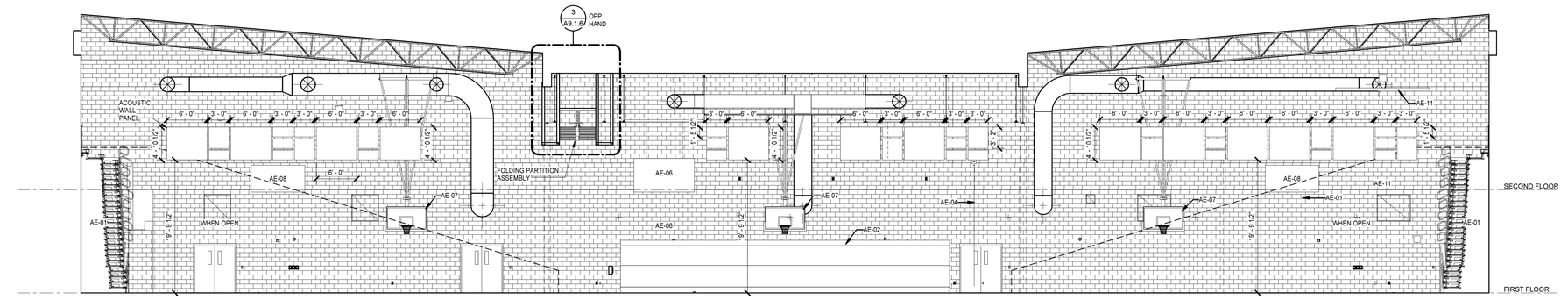
5 A7.7.2 A7.7.2 **DETAIL CURTAIN DIVIDER - TYP**
3" = 1'-0"



3 A2.1.6 A7.7.2 **INTERIOR ELEVATION**
1/8" = 1'-0"



2 A2.1.6 A7.7.2 **INTERIOR ELEVATION**
1/8" = 1'-0"



1 A2.1.6 A7.7.2 **INTERIOR ELEVATION**
1/8" = 1'-0"

MOSELEYARCHITECTS
3200 NORFOLK STREET, RICHMOND, VA 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

COMMONWEALTH OF VIRGINIA
JAMES M. McCALLA
Lic. No. 006322
2014
ARCHITECT

HERITAGE HIGH SCHOOL

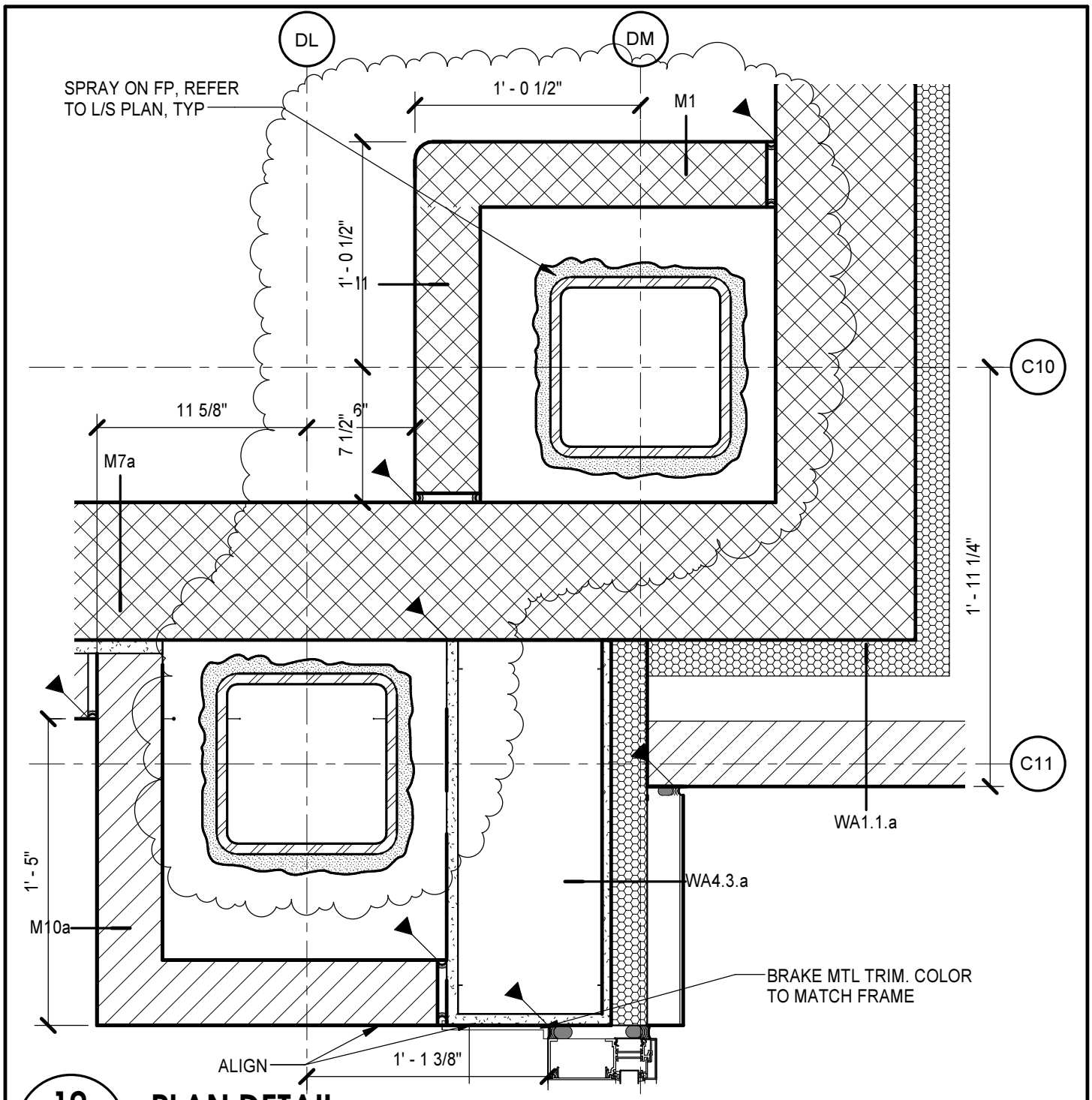
SDE NO.: 115-13-00-100
LYNCHBURG CITY SCHOOLS C.I.P. NO.: YS032
3020 WARDS FERRY ROAD, LYNCHBURG, VA 24502

PROJECT NO: 520910	DATE: FEBRUARY 5, 2014
REVISIONS	
DATE	DESCRIPTION
02/28/2014	ADDENDUM 3

GYMNASIUM INTERIOR ELEVATIONS

A7.7.2

2/27/2014 4:03:52 PM



10 A2.2.5 AD3-A1

PLAN DETAIL

1 1/2" = 1'-0"

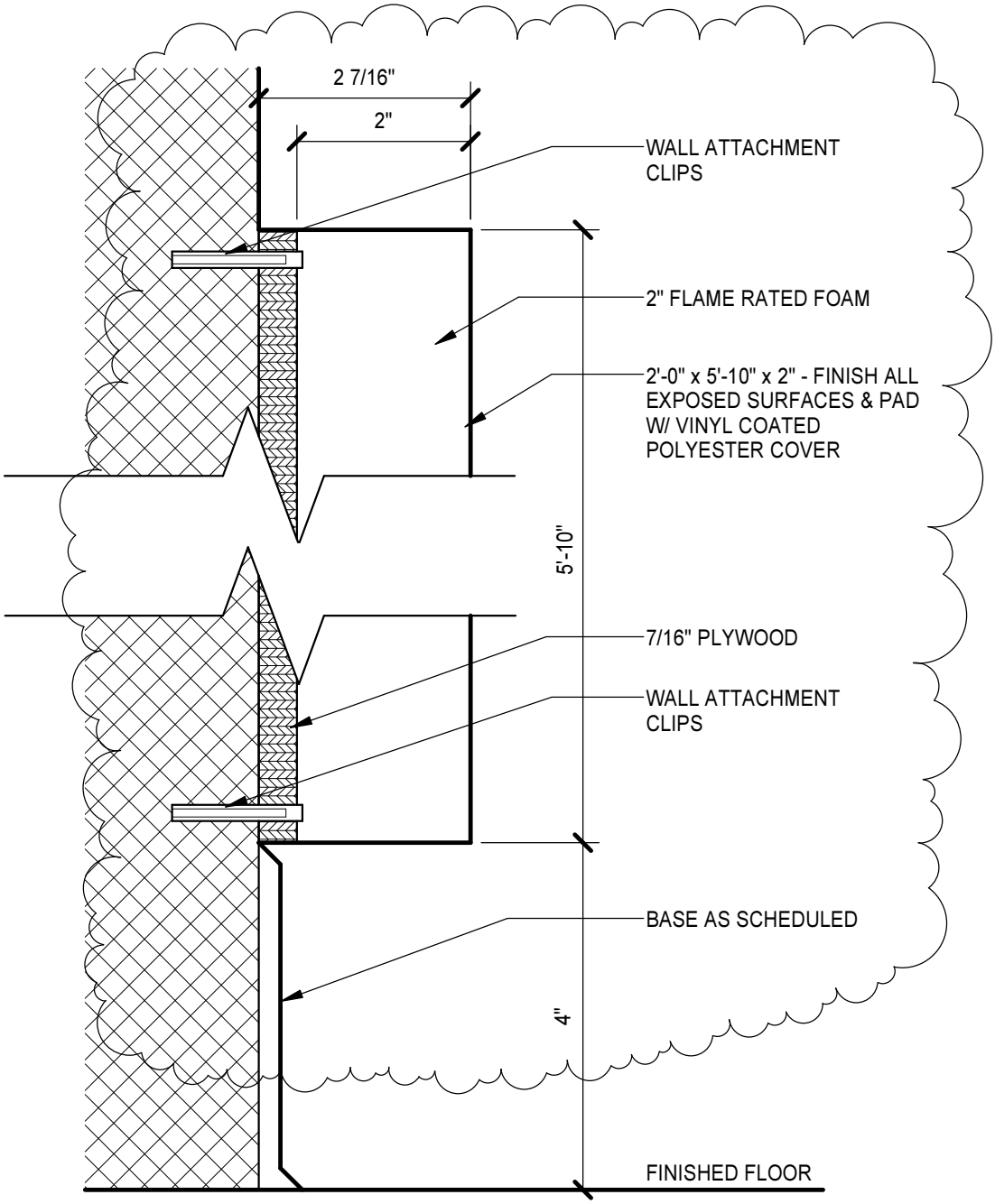
DRAWING TITLE:	CONTRACT DWG NO.:	PROJECT:
PLAN DETAIL	**A2.2.5**	**HERITAGE HIGH SCHOOL** **3020 WARDS FERRY ROAD, LYNCHBURG, VA 24502**

MOSELEYARCHITECTS

3200 NORFOLK STREET, RICHMOND, VIRGINIA, 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

DRAWN BY:	ATTACHMENT TO:	SUPPLEMENTAL DWG. NO:
CEM	**AD3**	**AD3-A1**
DATE: **02/28/14**	PROJECT NO: **520910**	

2/25/2014 3:14:15 PM



3
A7.7.1 | AD3-A2

GYM WALL PADDING DETAIL

6" = 1'-0"

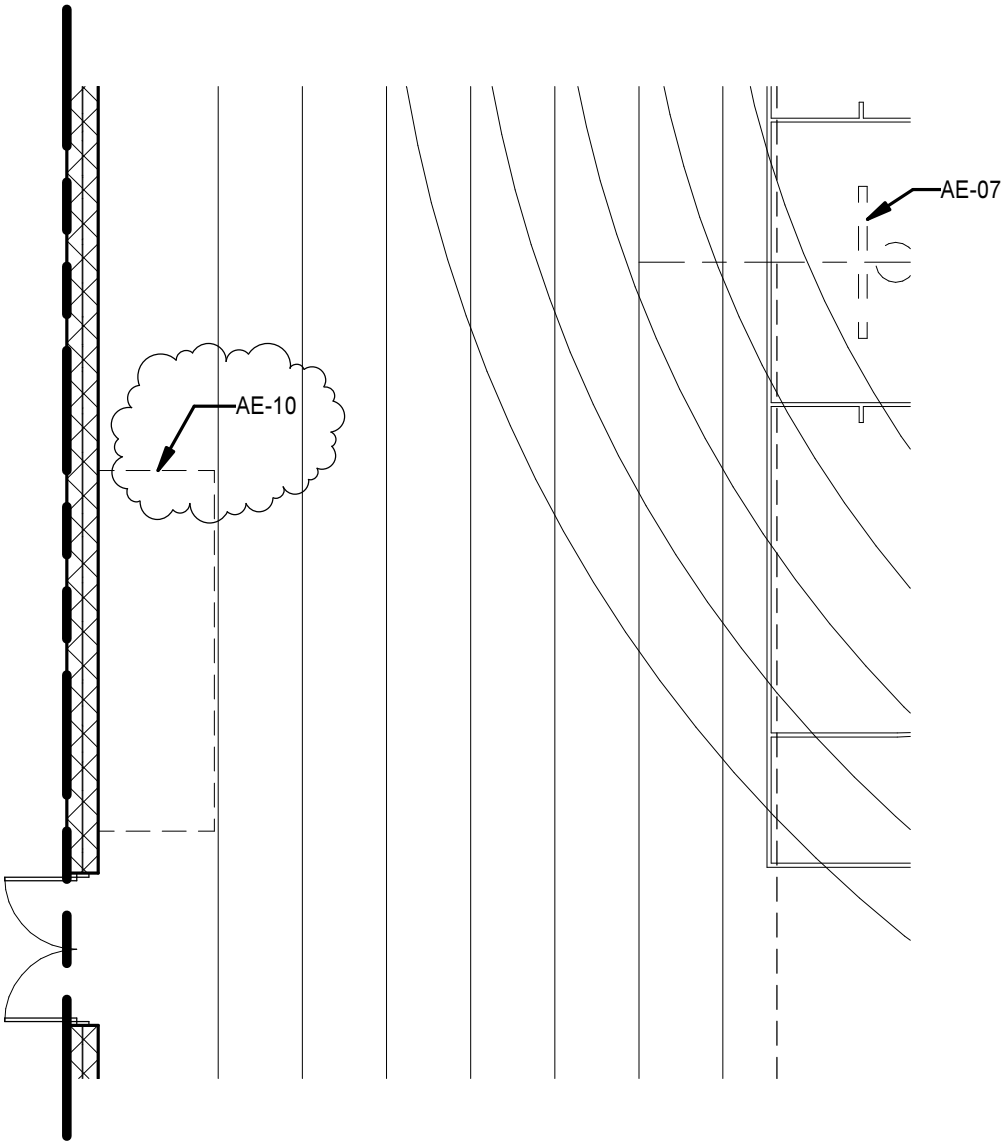
DRAWING TITLE:	CONTRACT DWG NO.:	PROJECT:
GYM WALL PADDING DETAIL	**A7.7.1**	**HERITAGE HIGH SCHOOL** **3020 WARDS FERRY ROAD, LYNCHBURG, VA 24502**

MOSELEYARCHITECTS

3200 NORFOLK STREET, RICHMOND, VIRGINIA, 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

DRAWN BY:	ATTACHMENT TO:	SUPPLEMENTAL DWG. NO:
CEM	**AD3**	**AD3-A2**
DATE: **02/28/14**	PROJECT NO: **520910**	

2/25/2014 3:14:15 PM



1
A7.7.1 | AD3-A3

FLOOR PLAN - GYMNASIUM

1/8" = 1'-0"

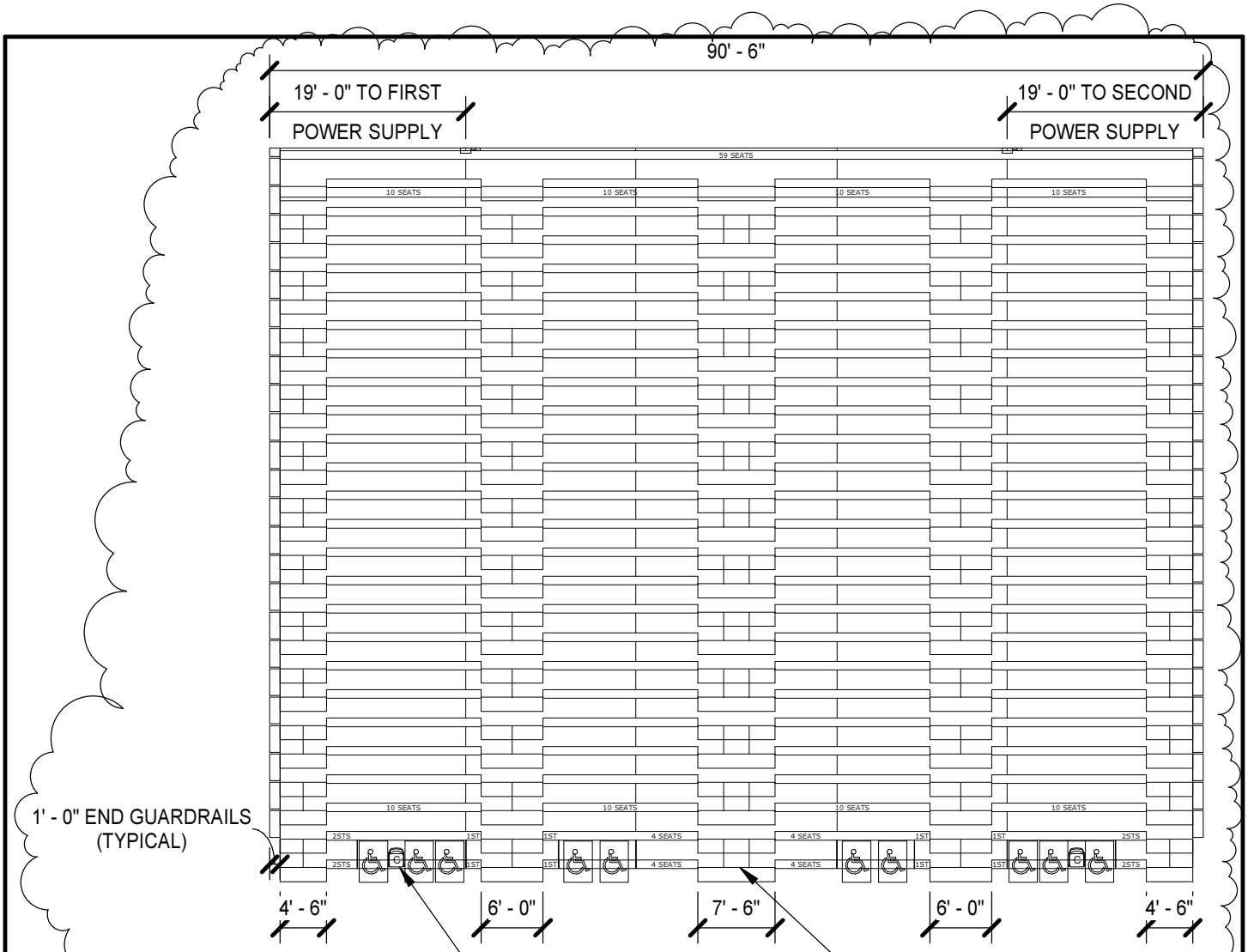
DRAWING TITLE: **FLOOR PLAN - GYMNASIUM - EQUIPMENT** **AE-10 TAG**	CONTRACT DWG NO.: **A7.7.1**	PROJECT: **HERITAGE HIGH SCHOOL** **3020 WARDS FERRY ROAD, LYNCHBURG, VA 24502**

MOSELEYARCHITECTS

3200 NORFOLK STREET, RICHMOND, VIRGINIA, 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

DRAWN BY: **CEM**	ATTACHMENT TO: **AD3**	SUPPLEMENTAL DWG. NO: **AD3-A3**
DATE: **02/28/14**	PROJECT NO: **520910**	

2/25/2014 3:14:16 PM



SEATING PLAN - BANK A

1,059	BENCH-TYPE SEAST
0	HANDICAP SEATING SPACES
1,059	TOTAL SEATING CAPACITY (MAXIMUM, WHEN ALL ADA SPACES ARE RECOVERED)
1,011	BENCH-TYPE SEATS
10	HANDICAP SEATING SPACES
1,021	TOTAL SEATING CAPACITY (MINIMUM, WHEN ALL ADA SPACES ARE UTILIZED)

6 A7.7.1 AD3-A4

BLEACHER PLAN LAYOUT

1/16" = 1'-0"

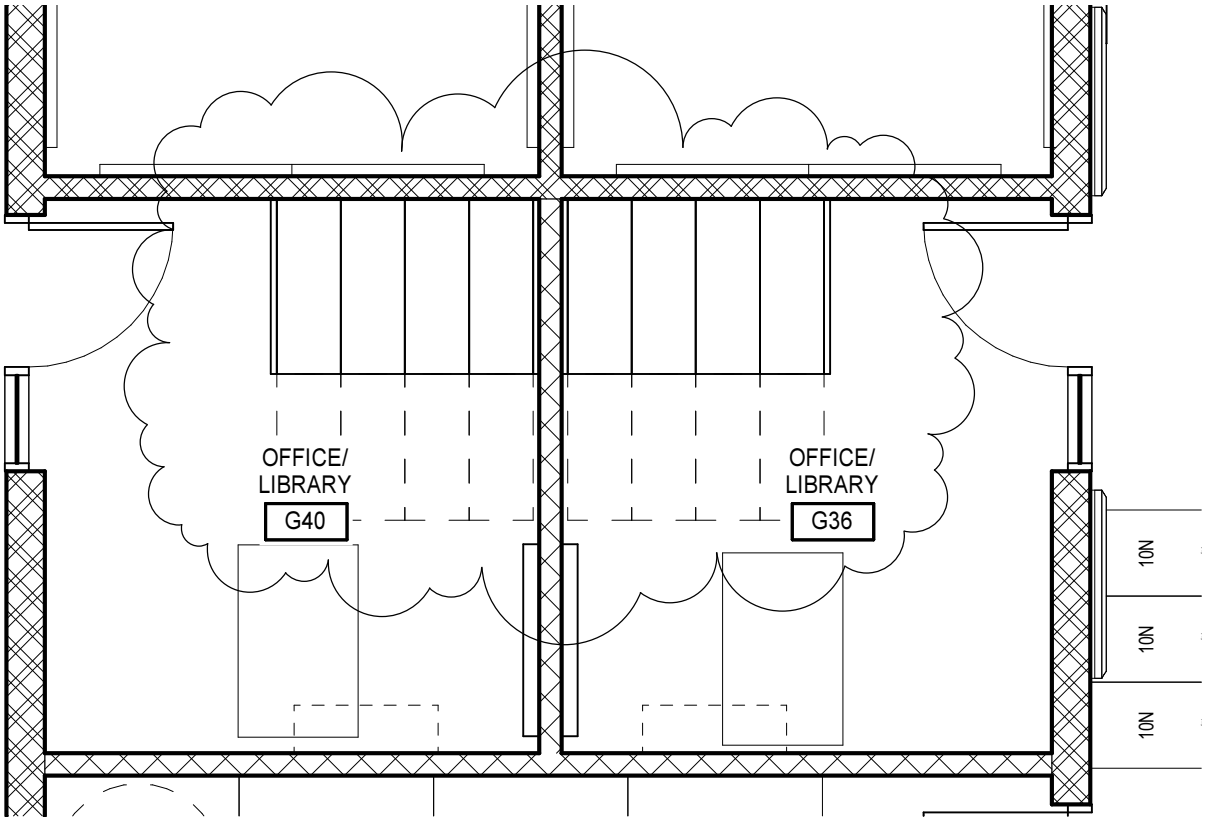
DRAWING TITLE: **BLEACHER PLAN LAYOUT**	CONTRACT DWG NO.: **A7.7.1**	PROJECT: **HERITAGE HIGH SCHOOL** **3020 WARDS FERRY ROAD, LYNCHBURG, VA 24502**

MOSELEYARCHITECTS

3200 NORFOLK STREET, RICHMOND, VIRGINIA, 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

DRAWN BY: **CEM**	ATTACHMENT TO: **AD3**	SUPPLEMENTAL DWG. NO: **AD3-A4**
DATE: **02/28/14**	PROJECT NO: **520910**	

2/25/2014 3:14:16 PM



1
A2.1.1 AD3-A5

ENLARGED BAND FLOOR PLAN

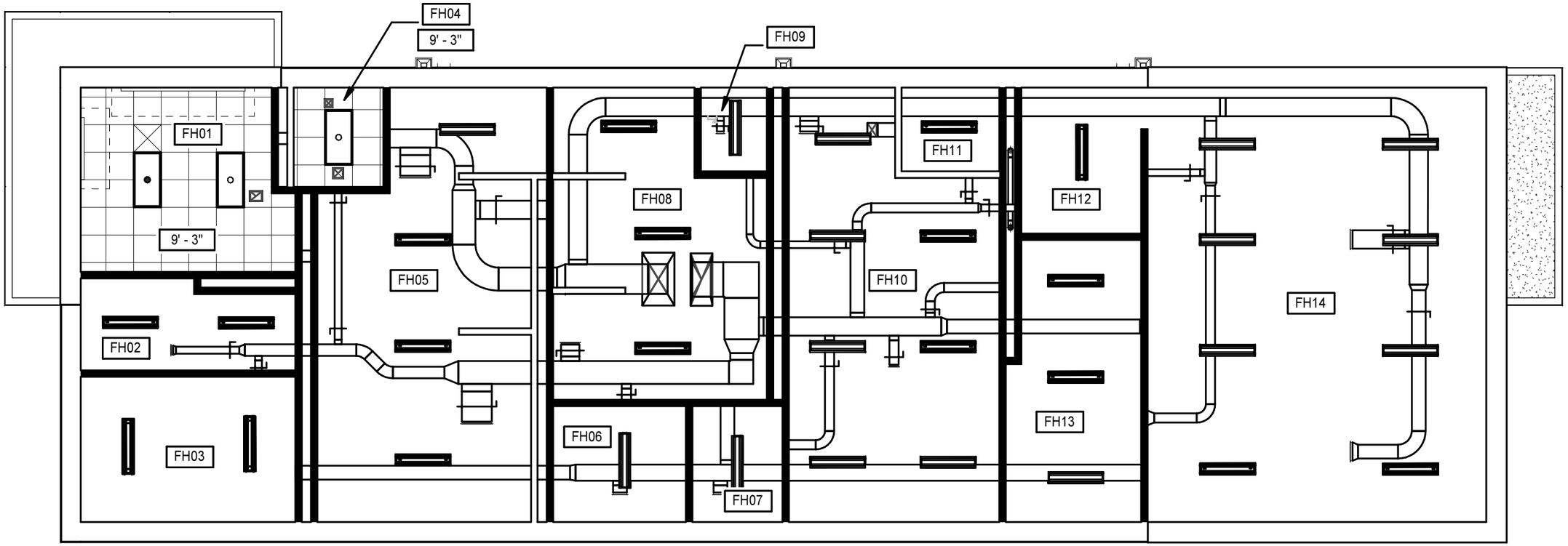
1/4" = 1'-0"

DRAWING TITLE: **ENLARGED BAND FLOOR PLAN - WENGER FOLIO STORAGE**	CONTRACT DWG NO.: **A7.2.1**	PROJECT: **HERITAGE HIGH SCHOOL** **3020 WARDS FERRY ROAD, LYNCHBURG, VA 24502**

MOSELEYARCHITECTS
3200 NORFOLK STREET, RICHMOND, VIRGINIA, 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

DRAWN BY: **SCB**	ATTACHMENT TO: **AD3**	SUPPLEMENTAL DWG. NO: **AD3-A5**
DATE: **02/26/14**	PROJECT NO: **520910**	

2/26/2014 3:30:02 PM



6
A1.6.1 | AD3-A6

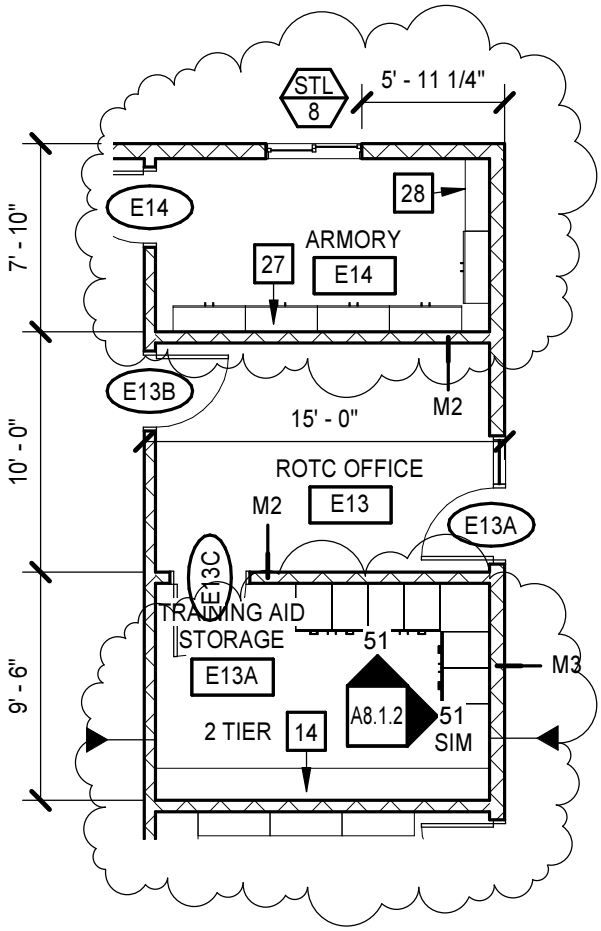
REFLECTED CEILING PLAN - FIELD HOUSE

1/8" = 1'-0"

2/27/2014 9:13:16 AM

MOSELEYARCHITECTS
3200 NORFOLK STREET, RICHMOND, VIRGINIA, 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

DRAWING TITLE:	CONTRACT DWG NO.:	PROJECT:	DRAWN BY:	ATTACHMENT TO:	SUPPLEMENTAL DWG. NO:
FIELD HOUSE REFLECTED CEILING PLAN	A1.6.1	HERITAGE HIGH SCHOOL 3020 WARDS FERRY ROAD, LYNCHBURG, VA 24502	CEM	AD3	AD3-A6
			DATE: 02/28/14	PROJECT NO: 520910	



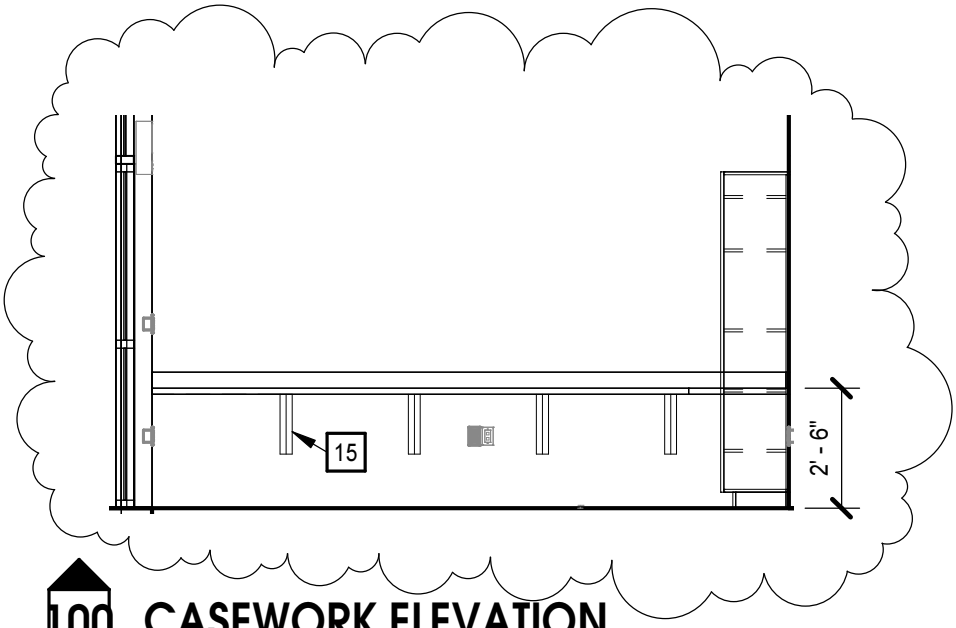
DRAWING TITLE:	CONTRACT DWG NO.:	PROJECT:
FLOOR PLAN PART E - ROTC CASEWORK AND EQUIPMENT	**A2.1.5**	**HERITAGE HIGH SCHOOL** **3020 WARDS FERRY ROAD, LYNCHBURG, VA 24502**

MOSELEYARCHITECTS

3200 NORFOLK STREET, RICHMOND, VIRGINIA, 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

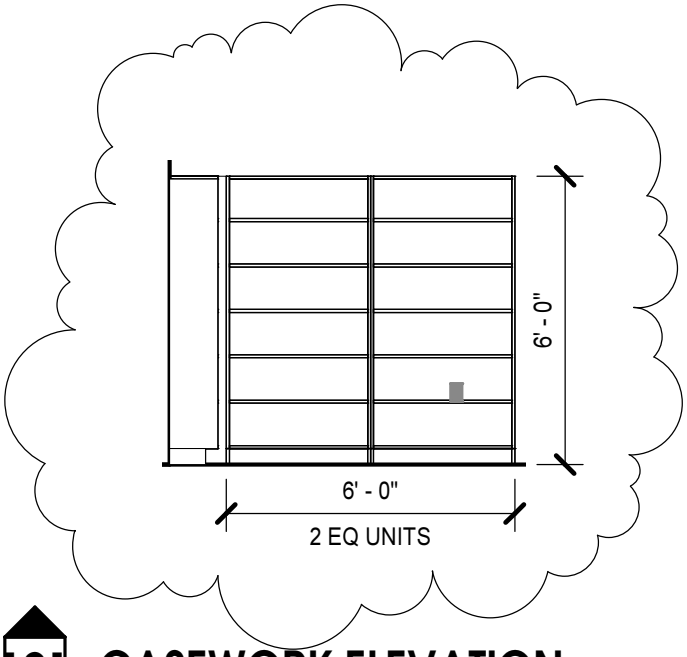
DRAWN BY:	ATTACHMENT TO:	SUPPLEMENTAL DWG. NO:
SCB	**AD3**	**AD3-A7**
DATE: **02/27/14**	PROJECT NO: **520910**	

2/27/2014 3:59:11 PM



100 CASEWORK ELEVATION

1/4" = 1'-0"



101 CASEWORK ELEVATION

1/4" = 1'-0"

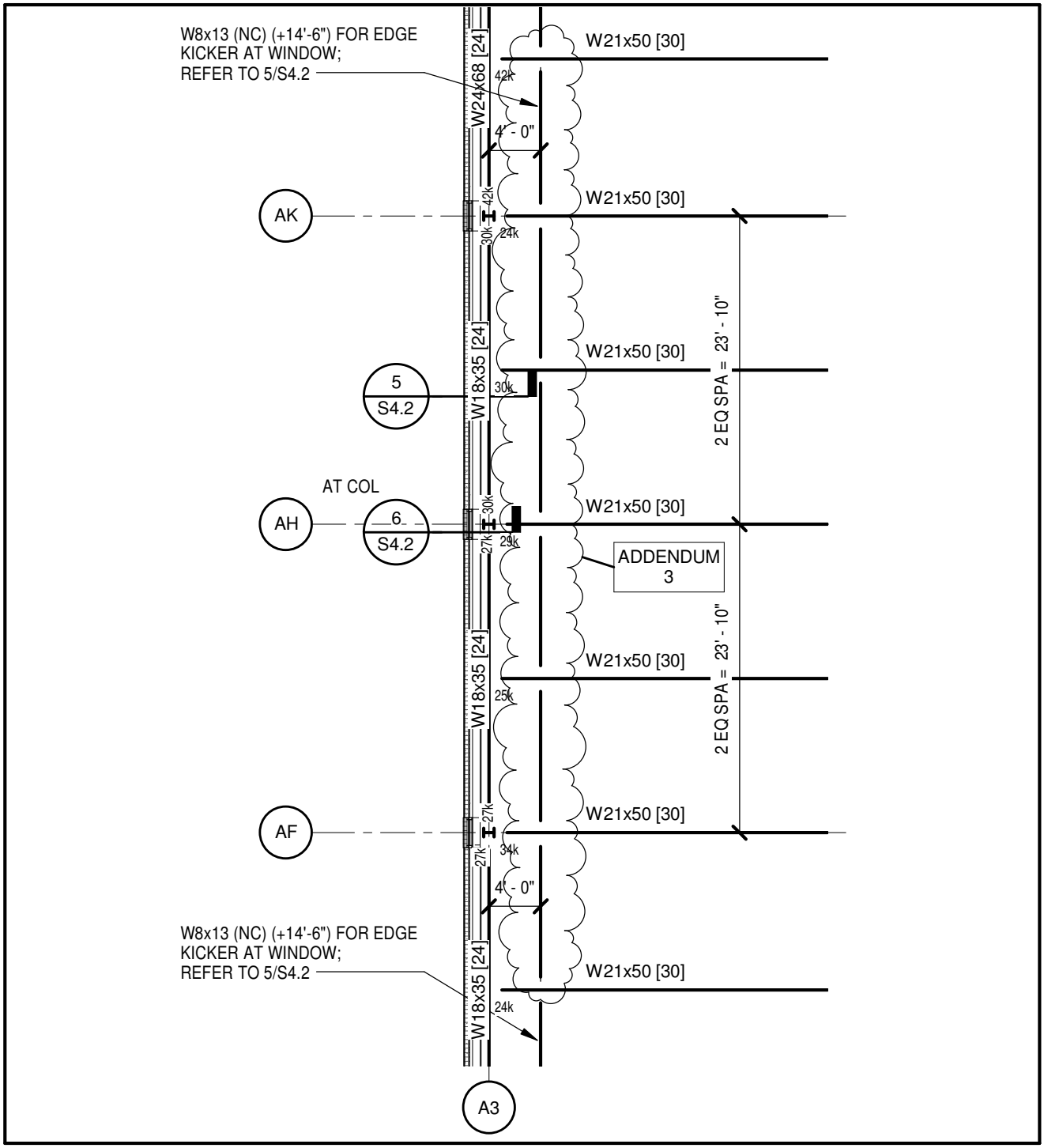
DRAWING TITLE:	CONTRACT DWG NO.:	PROJECT:
FIRST FLOOR PLAN - CASEWORK ELEVATIONS	**A2.1.4/A2.1.7**	**HERITAGE HIGH SCHOOL** **3020 WARDS FERRY ROAD, LYNCHBURG, VA 24502**

MOSELEYARCHITECTS

3200 NORFOLK STREET, RICHMOND, VIRGINIA, 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

DRAWN BY:	ATTACHMENT TO:	SUPPLEMENTAL DWG. NO:
SCB	**AD3**	**AD3-A8**
DATE: **02/27/14**	PROJECT NO: **520910**	

2/27/2014 3:55:52 PM



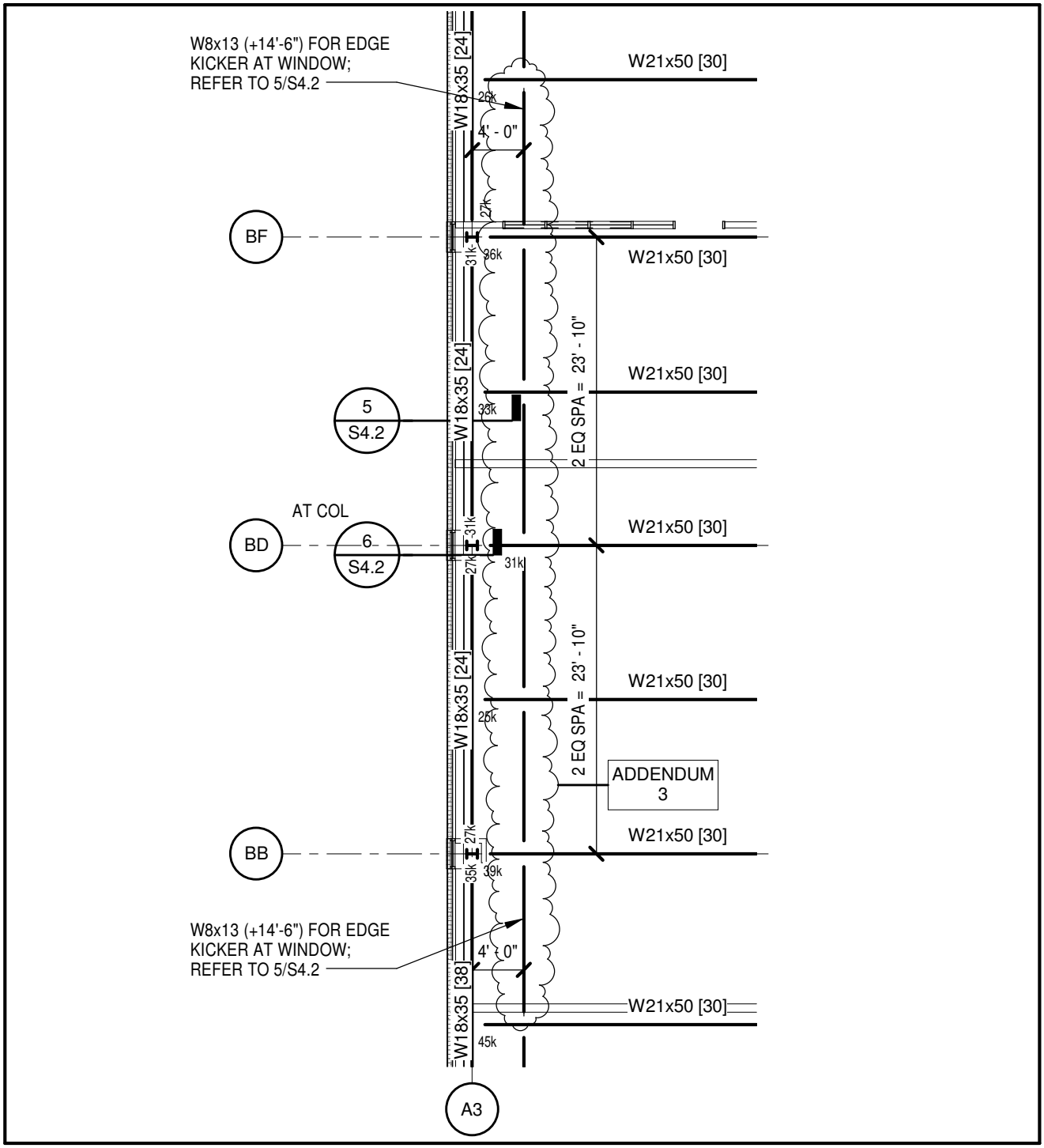
DRAWING TITLE:	CONTRACT DWG NO.:	PROJECT:
PART H - REVISED PARTIAL SECOND FLOOR FRAMING PLAN (ROTATED)	**S2.1**	**HERITAGE HIGH SCHOOL** **3020 WARDS FERRY ROAD, LYNCHBURG, VA 24502**

MOSELEYARCHITECTS

3200 NORFOLK STREET, RICHMOND, VIRGINIA, 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

DRAWN BY:	ATTACHMENT TO:	SUPPLEMENTAL DWG. NO:
JSO	**ADDENDUM #3**	**AD3-S01**
DATE: **02/28/14**	PROJECT NO: **520910**	

2/26/2014 10:08:52 AM



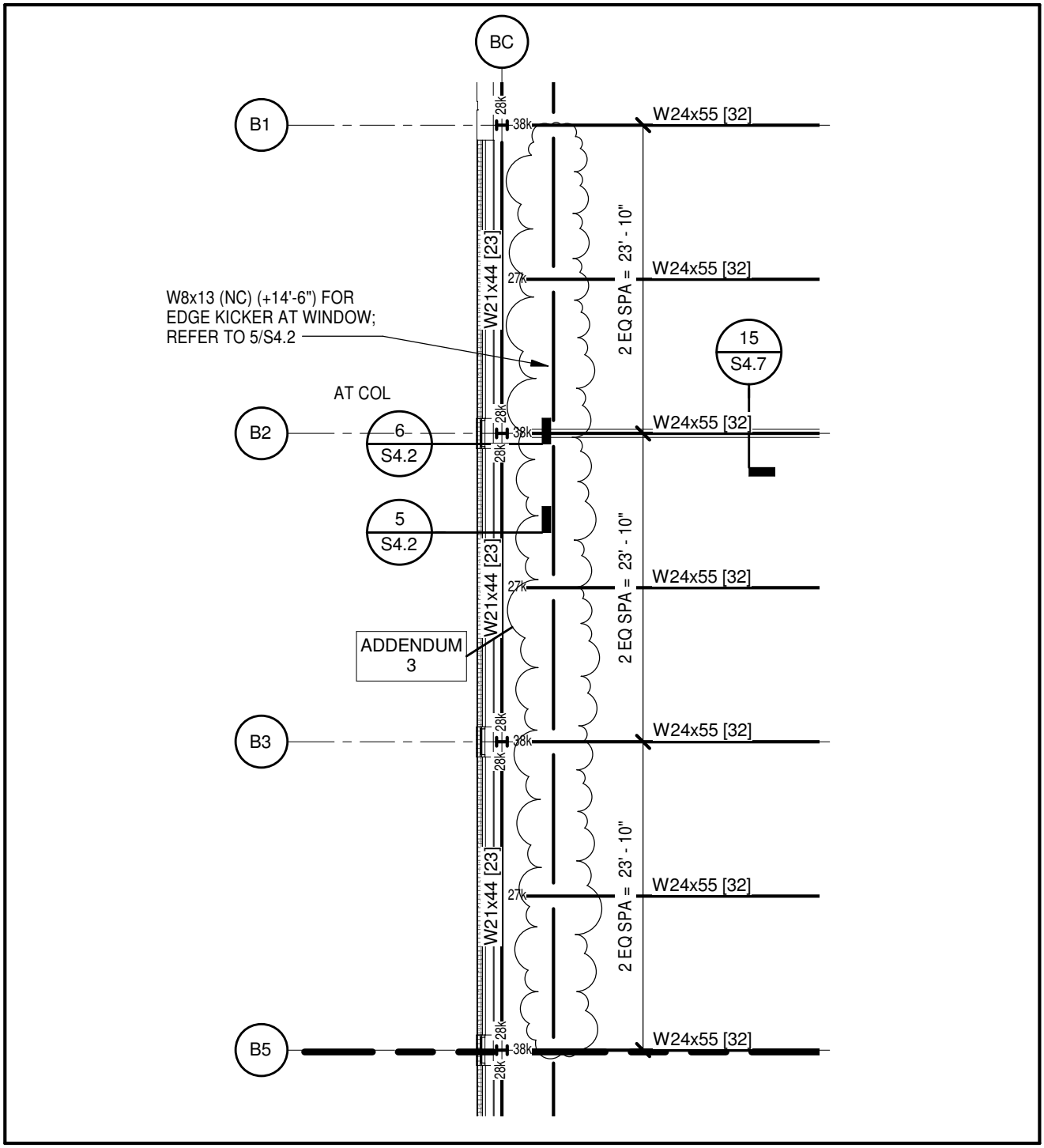
DRAWING TITLE:	CONTRACT DWG NO.:	PROJECT:
PART J - REVISED PARTIAL SECOND FLOOR FRAMING PLAN (ROTATED)	**S2.2**	**HERITAGE HIGH SCHOOL** **3020 WARDS FERRY ROAD, LYNCHBURG, VA 24502**

MOSELEYARCHITECTS

3200 NORFOLK STREET, RICHMOND, VIRGINIA, 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

DRAWN BY:	ATTACHMENT TO:	SUPPLEMENTAL DWG. NO:
JSO	**ADDENDUM #3**	**AD3-S02**
DATE: **02/28/14**	PROJECT NO: **520910**	

2/26/2014 10:08:53 AM



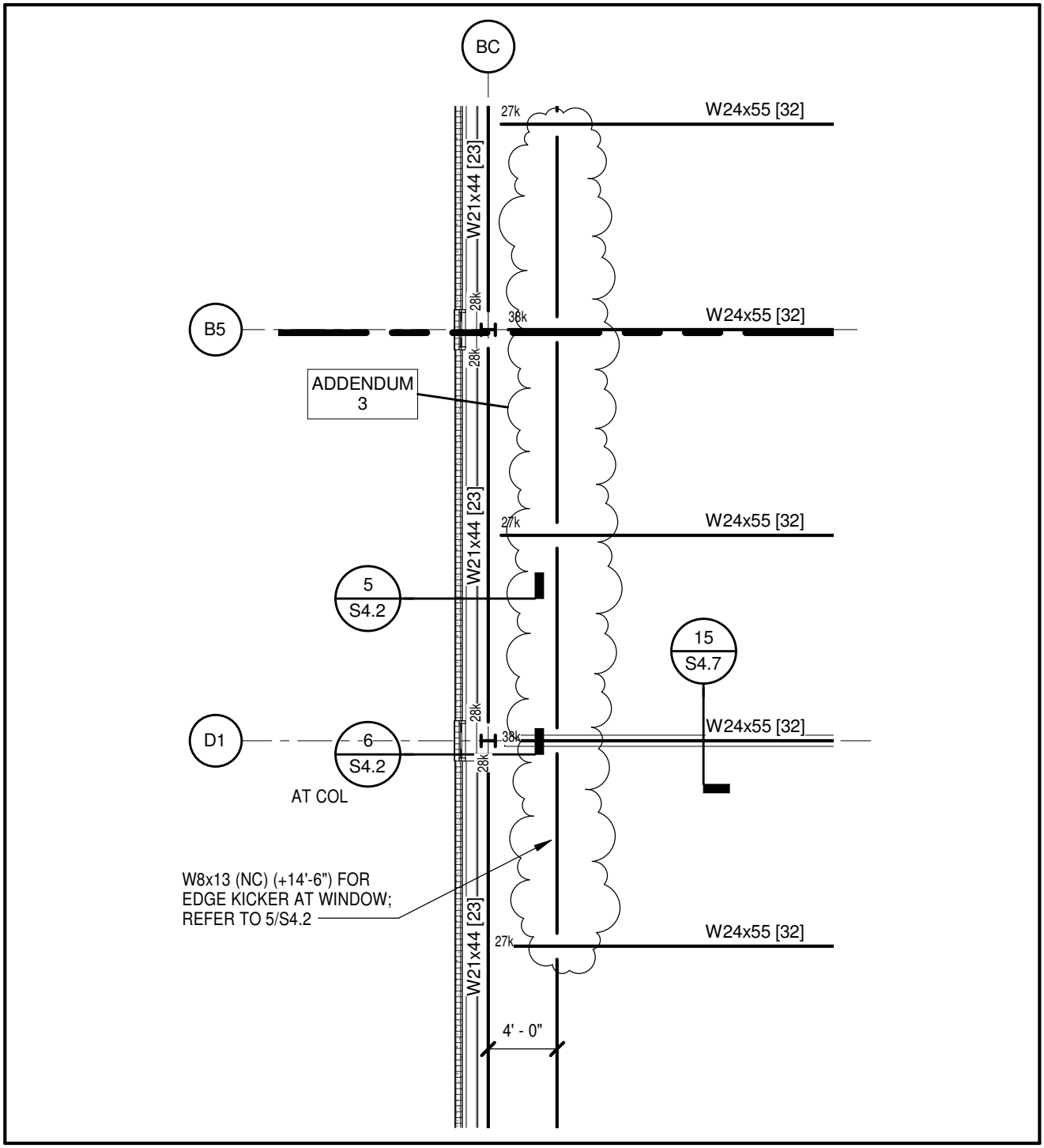
DRAWING TITLE:	CONTRACT DWG NO.:	PROJECT:
PART J - REVISED PARTIAL SECOND FLOOR FRAMING PLAN	**S2.2**	**HERITAGE HIGH SCHOOL** **3020 WARDS FERRY ROAD, LYNCHBURG, VA 24502**

MOSELEYARCHITECTS

3200 NORFOLK STREET, RICHMOND, VIRGINIA, 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

DRAWN BY:	ATTACHMENT TO:	SUPPLEMENTAL DWG. NO:
JSO	**ADDENDUM #3**	**AD3-S03**
DATE: **02/28/14**	PROJECT NO: **520910**	

2/28/2014 10:21:18 AM



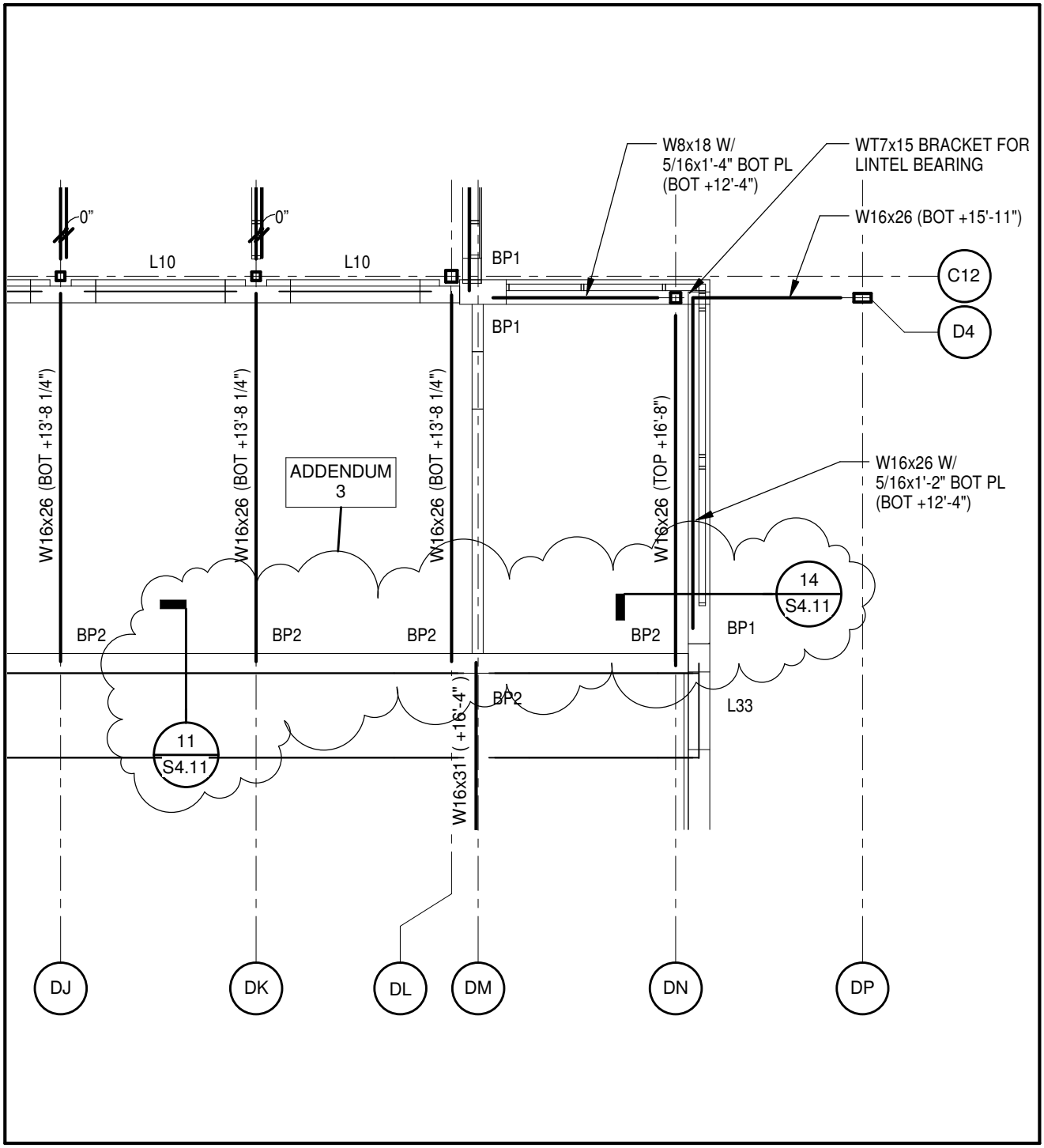
DRAWING TITLE:	CONTRACT DWG NO.:	PROJECT:
PART L - REVISED PARTIAL SECOND FLOOR FRAMING PLAN	**S2.4**	**HERITAGE HIGH SCHOOL** **3020 WARDS FERRY ROAD, LYNCHBURG, VA 24502**

MOSELEYARCHITECTS

3200 NORFOLK STREET, RICHMOND, VIRGINIA, 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

DRAWN BY:	ATTACHMENT TO:	SUPPLEMENTAL DWG. NO:
JSO	**ADDENDUM #3**	**AD3-S04**
DATE: **02/28/14**	PROJECT NO: **520910**	

2/28/2014 10:21:41 AM



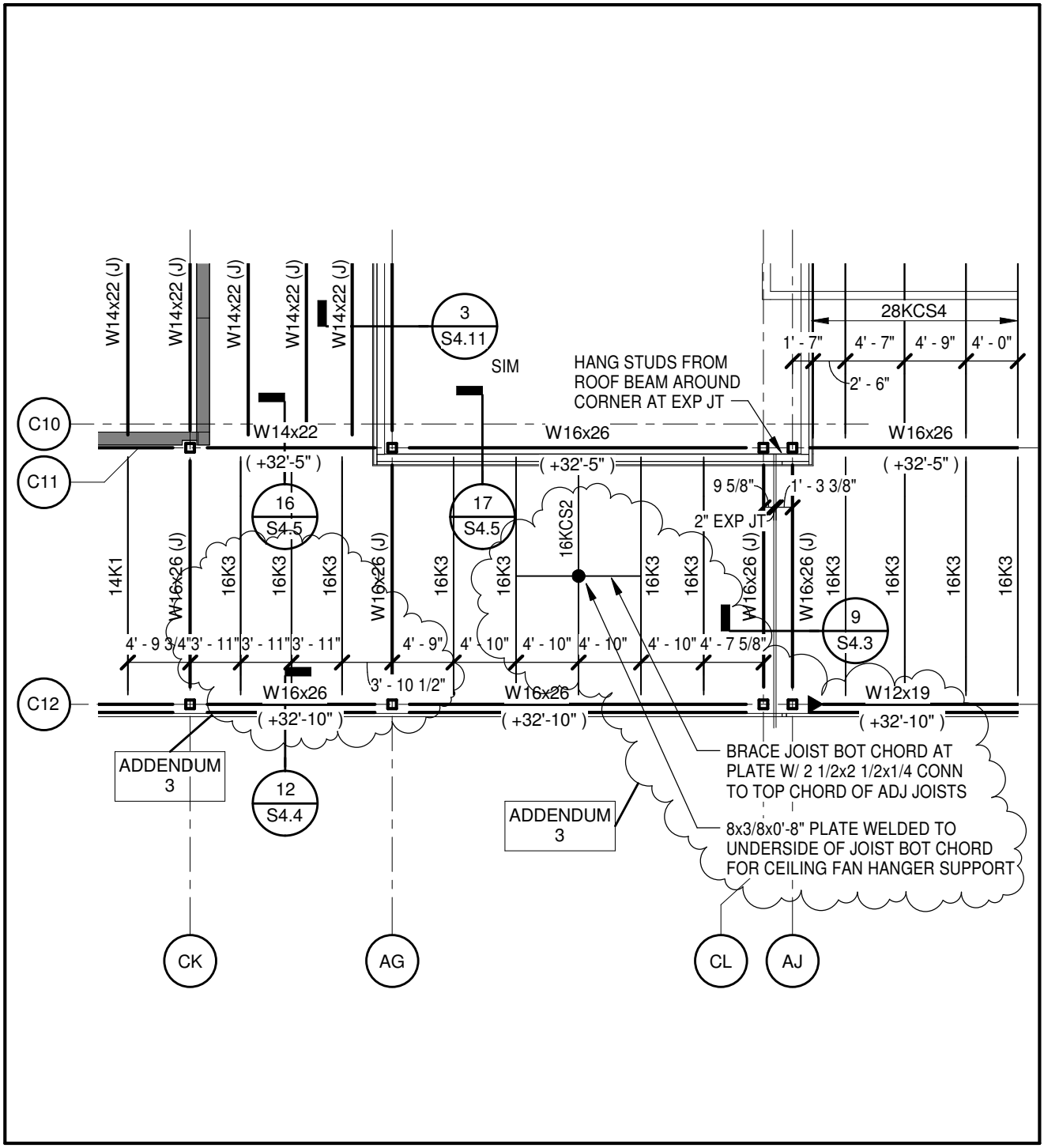
DRAWING TITLE:	CONTRACT DWG NO.:	PROJECT:
PART L - REVISED PARTIAL LOW ROOF FRAMING PLAN	**S2.4**	**HERITAGE HIGH SCHOOL** **3020 WARDS FERRY ROAD, LYNCHBURG, VA 24502**

MOSELEYARCHITECTS

3200 NORFOLK STREET, RICHMOND, VIRGINIA, 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

DRAWN BY:	ATTACHMENT TO:	SUPPLEMENTAL DWG. NO:
JSO	**ADDENDUM #3**	**AD3-S05**
DATE: **02/28/14**	PROJECT NO: **520910**	

2/28/2014 10:08:41 AM



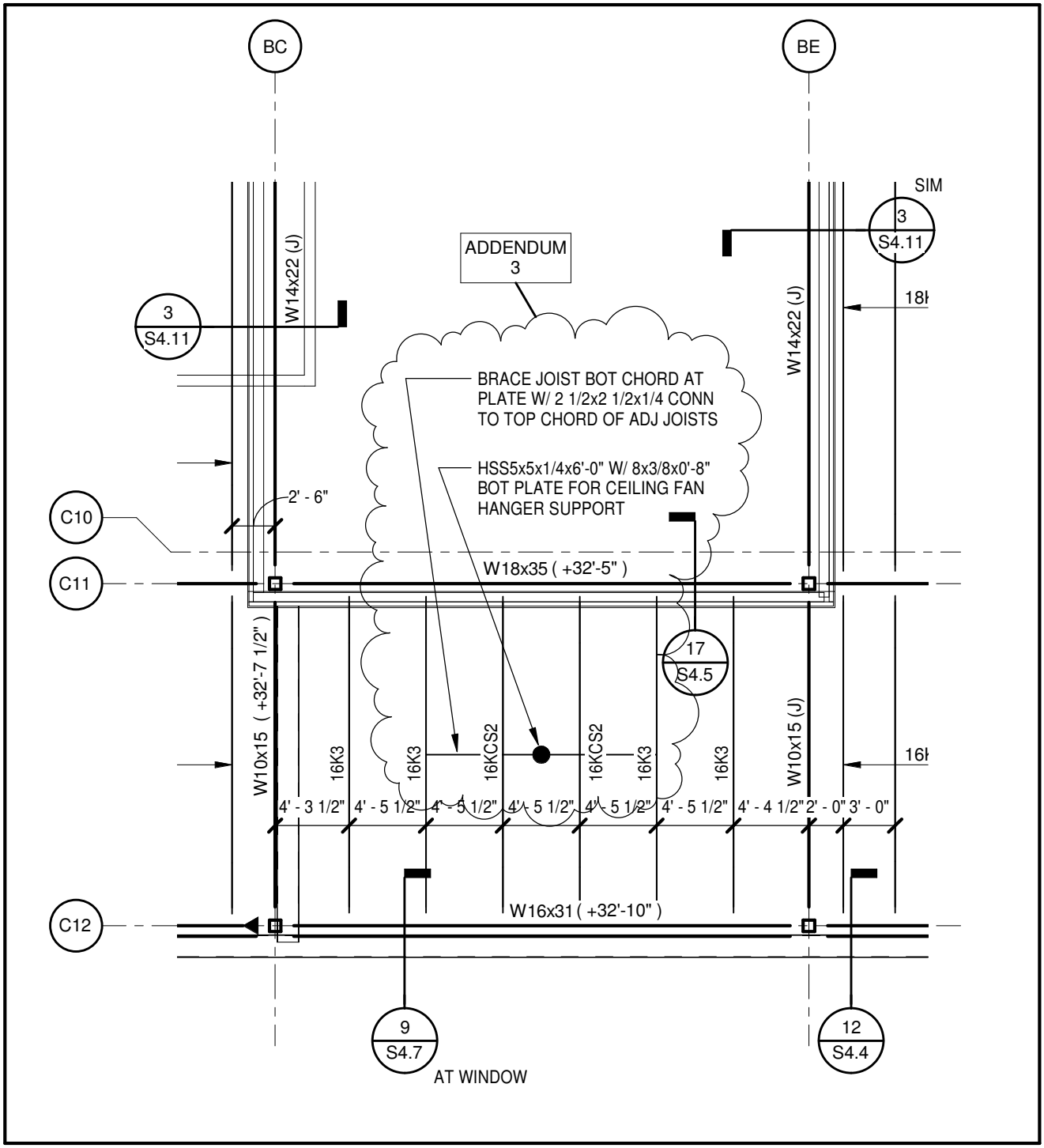
DRAWING TITLE:	CONTRACT DWG NO.:	PROJECT:
PART K - REVISED PARTIAL HIGH ROOF FRAMING PLAN	**S2.7**	**HERITAGE HIGH SCHOOL** **3020 WARDS FERRY ROAD, LYNCHBURG, VA 24502**

MOSELEYARCHITECTS

3200 NORFOLK STREET, RICHMOND, VIRGINIA, 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

DRAWN BY:	ATTACHMENT TO:	SUPPLEMENTAL DWG. NO:
JSO	**ADDENDUM #3**	**AD3-S06**
DATE: **02/28/14**	PROJECT NO: **520910**	

2/28/2014 10:08:43 AM



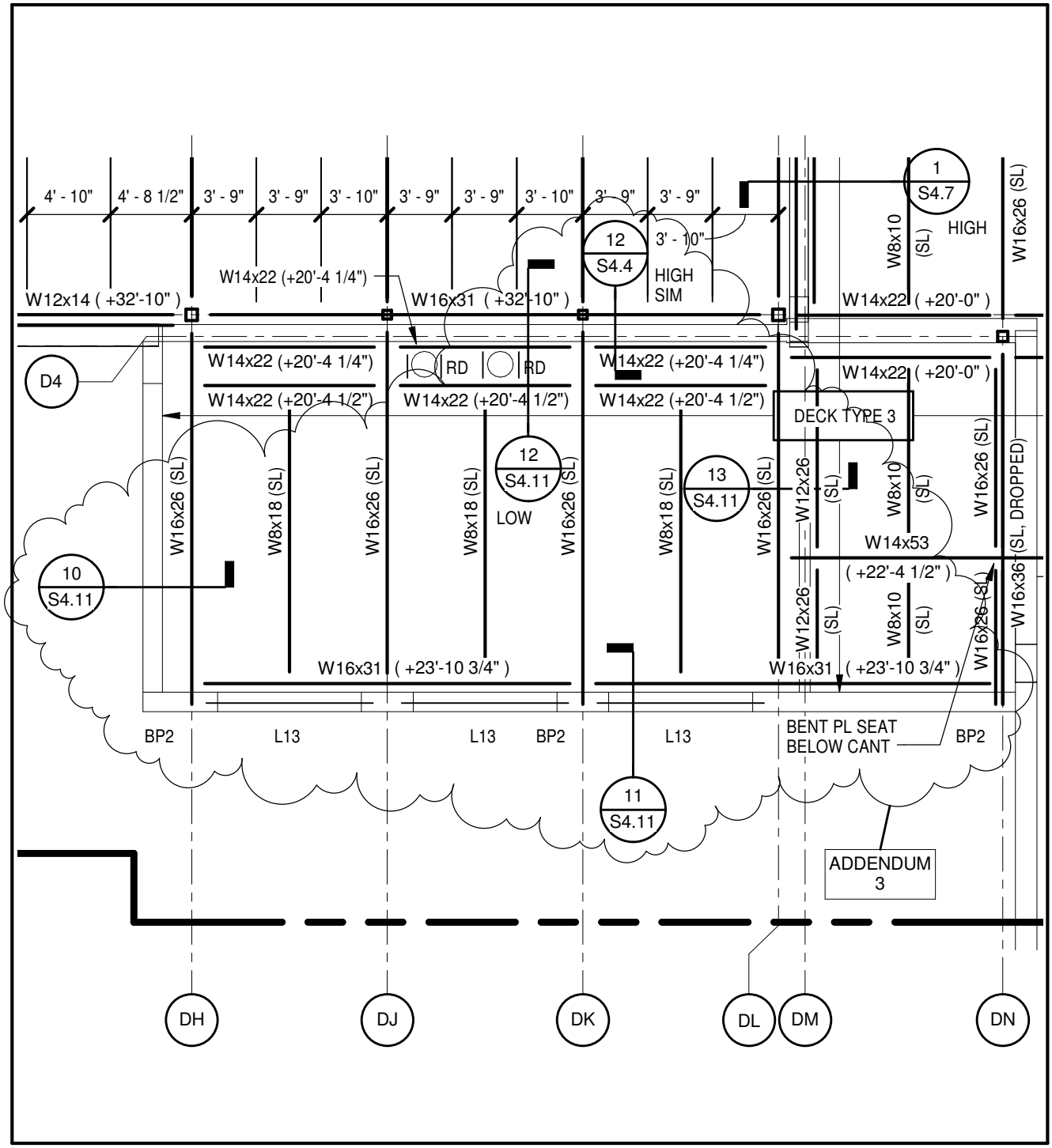
DRAWING TITLE:	CONTRACT DWG NO.:	PROJECT:
PART L - REVISED PARTIAL HIGH ROOF FRAMING PLAN	**S2.8**	**HERITAGE HIGH SCHOOL** **3020 WARDS FERRY ROAD, LYNCHBURG, VA 24502**

MOSELEYARCHITECTS

3200 NORFOLK STREET, RICHMOND, VIRGINIA, 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

DRAWN BY:	ATTACHMENT TO:	SUPPLEMENTAL DWG. NO:
JSO	**ADDENDUM #3**	**AD3-S07**
DATE: **02/28/14**	PROJECT NO: **520910**	

2/28/2014 10:08:44 AM



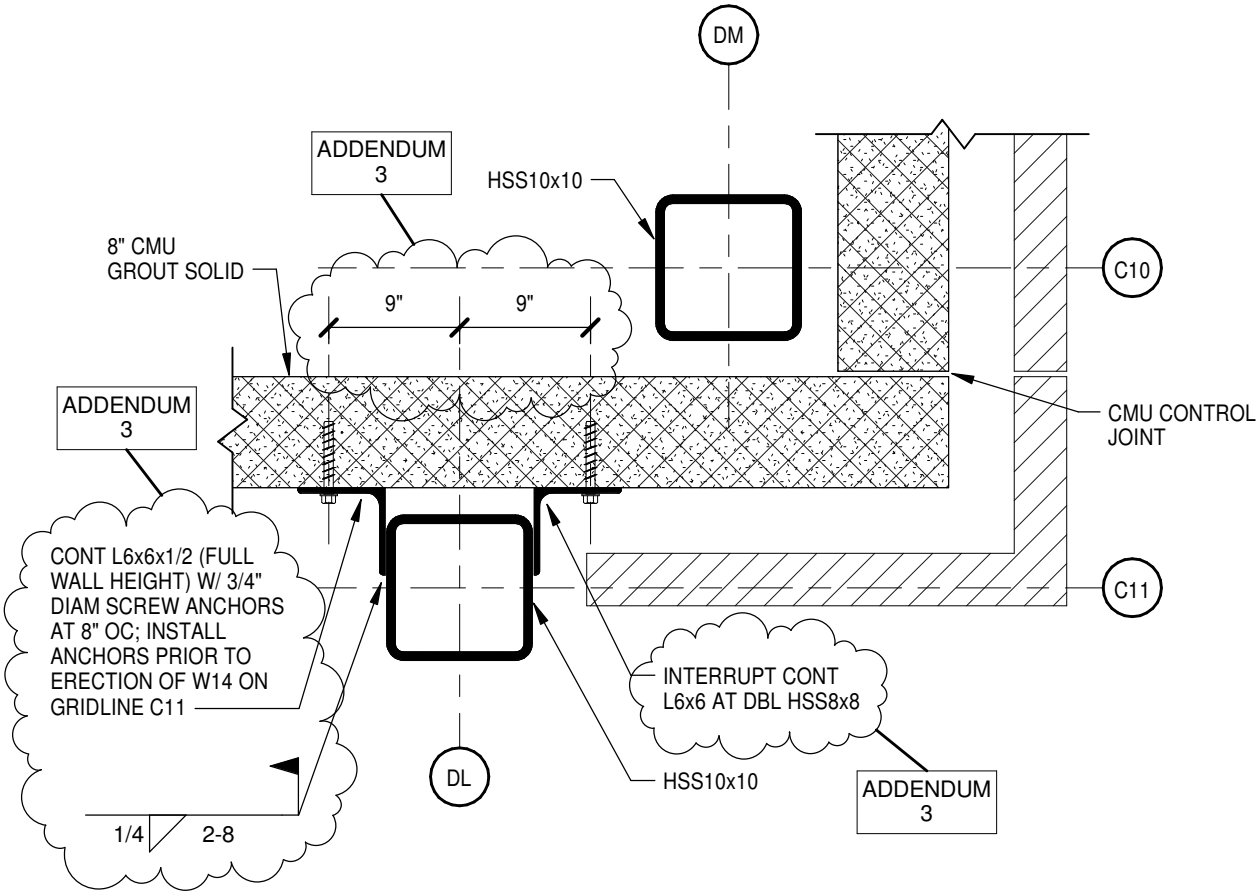
DRAWING TITLE:	CONTRACT DWG NO.:	PROJECT:
PART L - REVISED PARTIAL HIGH ROOF FRAMING PLAN	**S2.8**	**HERITAGE HIGH SCHOOL** **3020 WARDS FERRY ROAD, LYNCHBURG, VA 24502**

MOSELEYARCHITECTS

3200 NORFOLK STREET, RICHMOND, VIRGINIA, 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

DRAWN BY:	ATTACHMENT TO:	SUPPLEMENTAL DWG. NO:
JSO	**ADDENDUM #3**	**AD3-S08**
DATE: **02/28/14**	PROJECT NO: **520910**	

2/28/2014 10:08:47 AM



REVISED PLAN DETAIL 7/S4.11

1" = 1'-0"

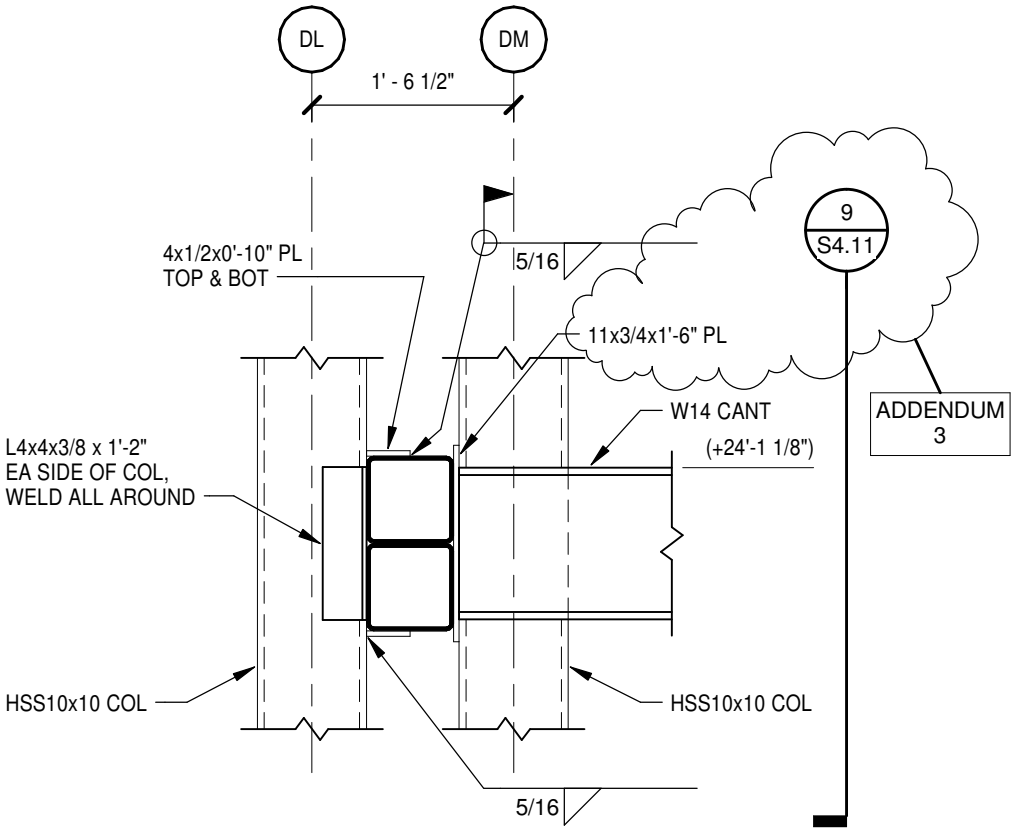
DRAWING TITLE:	CONTRACT DWG NO.:	PROJECT:
REVISED PLAN DETAIL 7/S4.11	**S4.11**	**HERITAGE HIGH SCHOOL** **3020 WARDS FERRY ROAD, LYNCHBURG, VA 24502**

MOSELEYARCHITECTS

3200 NORFOLK STREET, RICHMOND, VIRGINIA, 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

DRAWN BY:	ATTACHMENT TO:	SUPPLEMENTAL DWG. NO:
JSO	**ADDENDUM #3**	**AD3-S09**
DATE: **02/28/14**	PROJECT NO: **520910**	

2/28/2014 10:12:17 AM



REVISED SECTION 8/S4.11

3/4" = 1'-0"

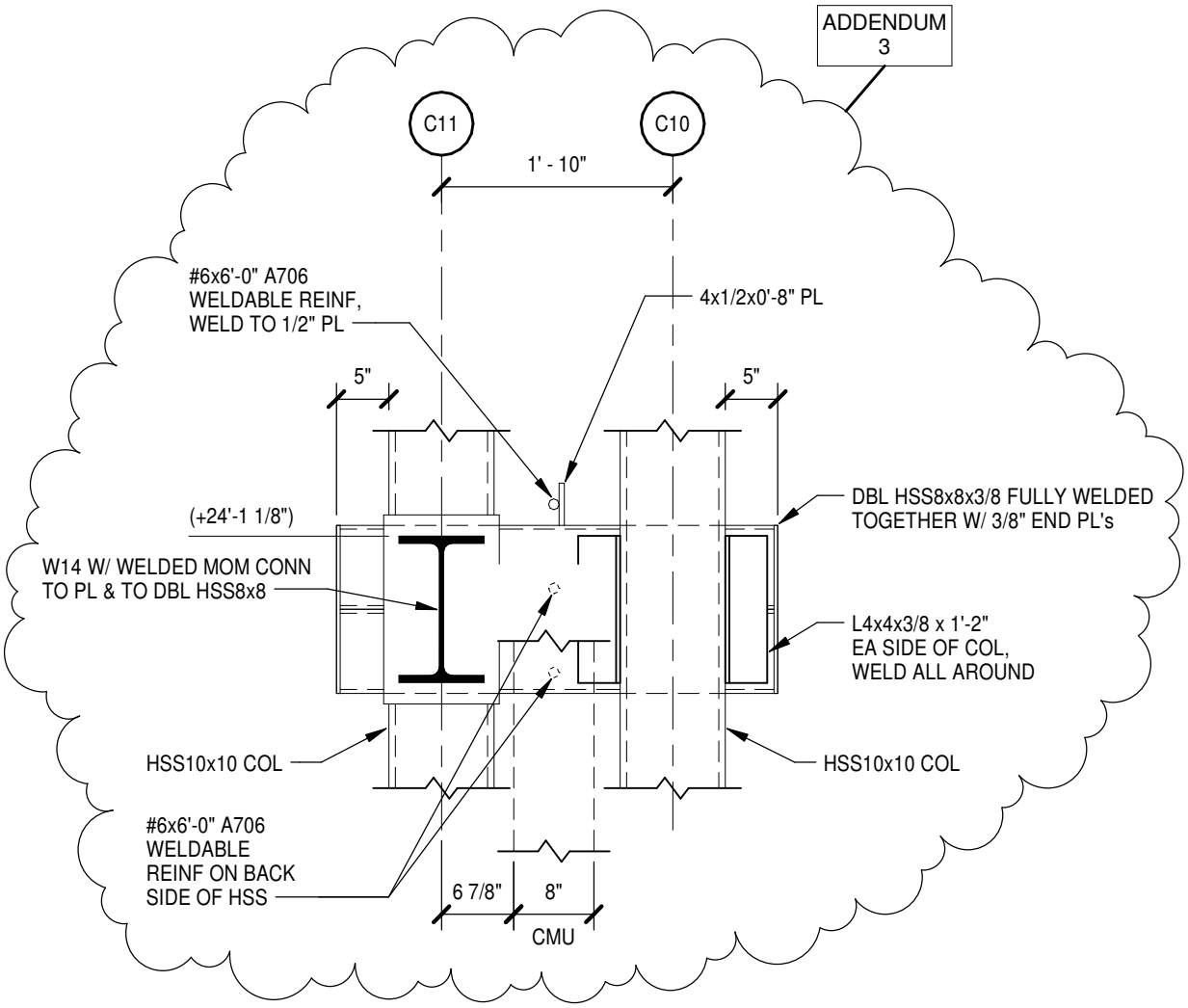
DRAWING TITLE:	CONTRACT DWG NO.:	PROJECT:
REVISED SECTION 8/S4.11	**S4.11**	**HERITAGE HIGH SCHOOL** **3020 WARDS FERRY ROAD, LYNCHBURG, VA 24502**

MOSELEYARCHITECTS

3200 NORFOLK STREET, RICHMOND, VIRGINIA, 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

DRAWN BY:	ATTACHMENT TO:	SUPPLEMENTAL DWG. NO:
JSO	**ADDENDUM #3**	**AD3-S10**
DATE: **02/28/14**	PROJECT NO: **520910**	

2/28/2014 10:08:49 AM



ADDED SECTION 9/S4.11

3/4" = 1'-0"

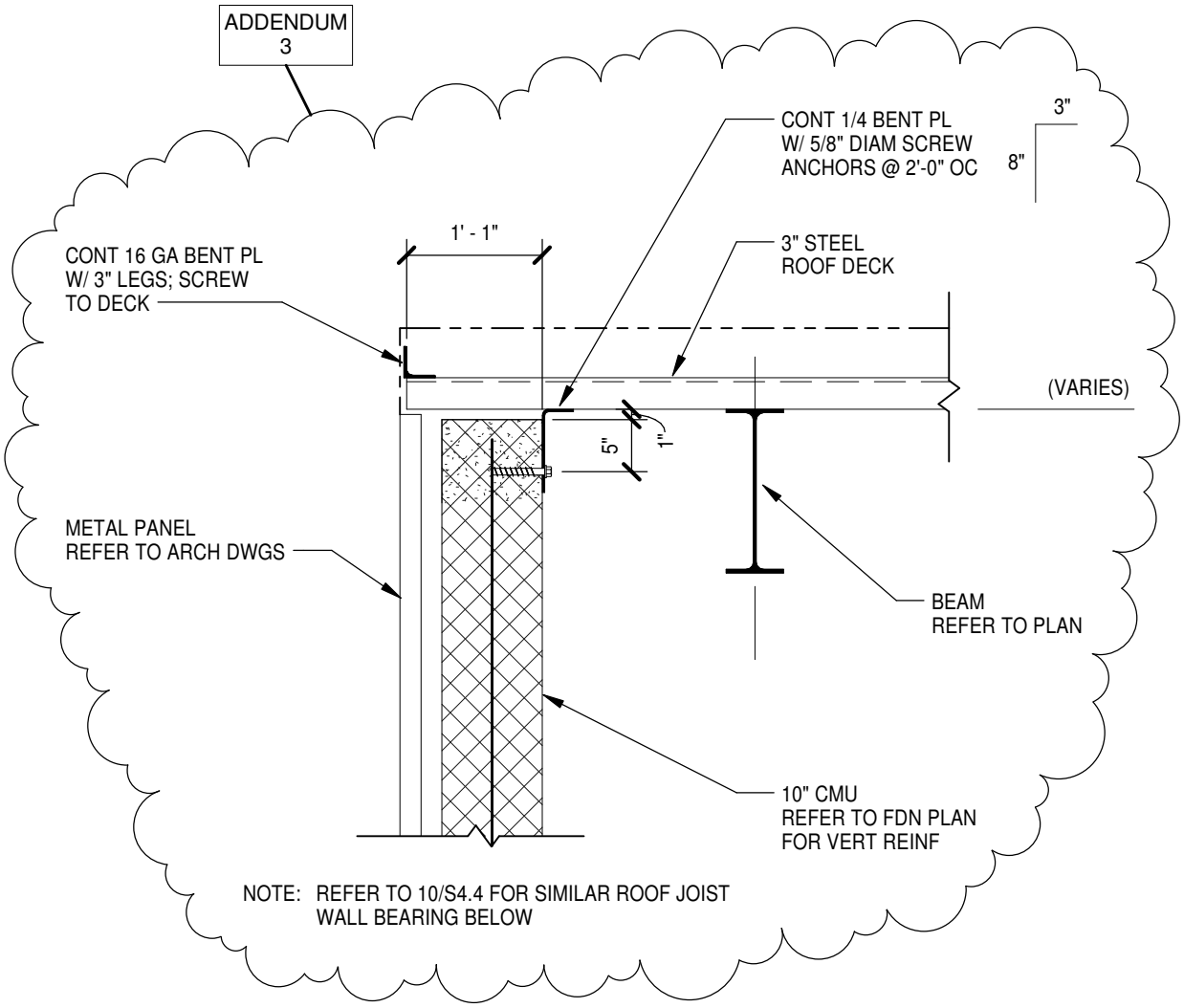
DRAWING TITLE:	CONTRACT DWG NO.:	PROJECT:
ADDED SECTION 9/S4.11	**S4.11**	**HERITAGE HIGH SCHOOL** **3020 WARDS FERRY ROAD, LYNCHBURG, VA 24502**

MOSELEYARCHITECTS

3200 NORFOLK STREET, RICHMOND, VIRGINIA, 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

DRAWN BY:	ATTACHMENT TO:	SUPPLEMENTAL DWG. NO:
JSO	**ADDENDUM #3**	**AD3-S11**
DATE: **02/28/14**	PROJECT NO: **520910**	

2/28/2014 10:12:18 AM



ADDED SECTION 10/S4.11

3/4" = 1'-0"

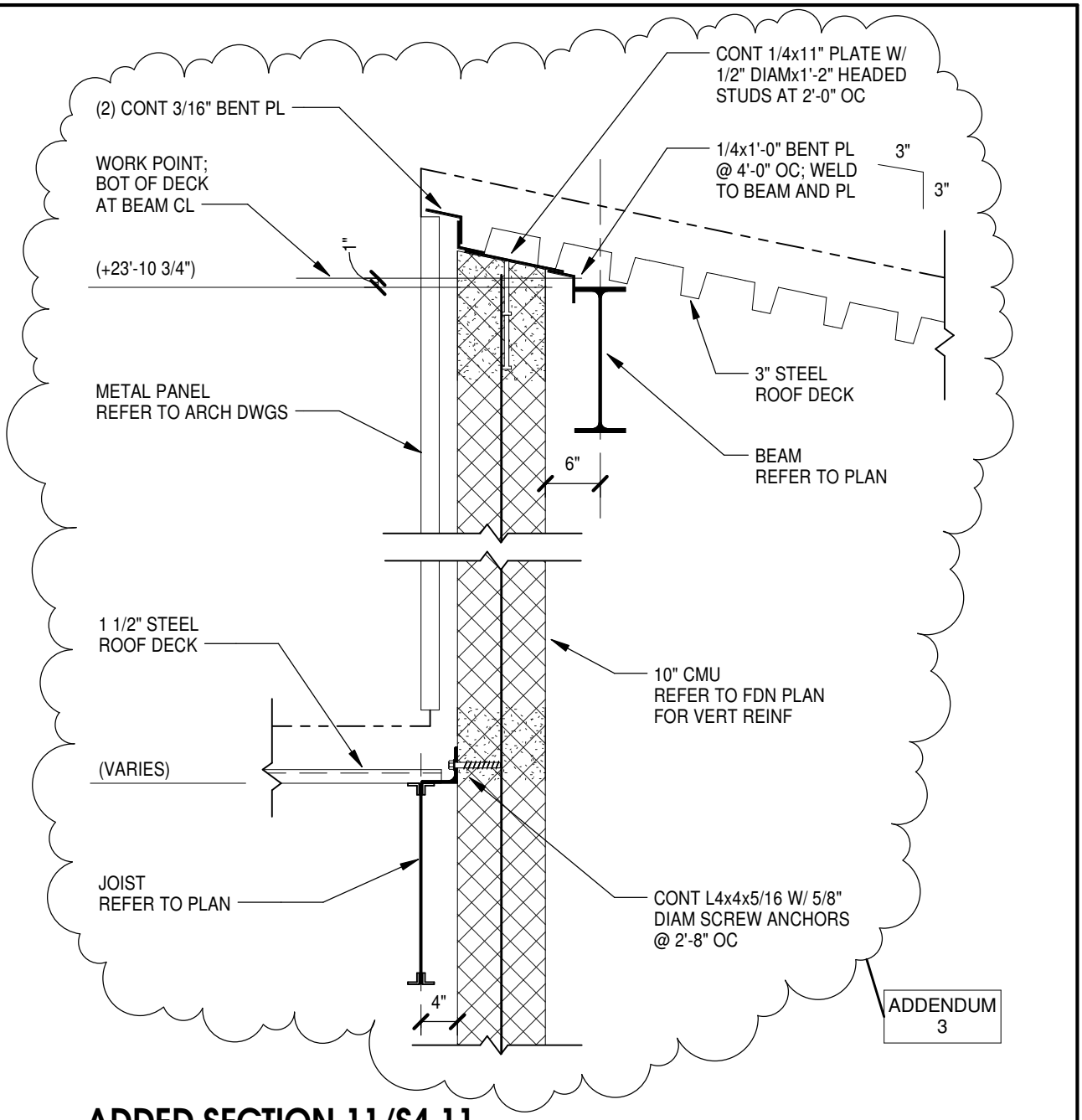
DRAWING TITLE:	CONTRACT DWG NO.:	PROJECT:
ADDED SECTION 10/S4.11	**S4.11**	**HERITAGE HIGH SCHOOL** **3020 WARDS FERRY ROAD, LYNCHBURG, VA 24502**

MOSELEYARCHITECTS

3200 NORFOLK STREET, RICHMOND, VIRGINIA, 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

DRAWN BY:	ATTACHMENT TO:	SUPPLEMENTAL DWG. NO:
JSO	**ADDENDUM #3**	**AD3-S12**
DATE: **02/28/14**	PROJECT NO: **520910**	

2/28/2014 10:08:53 AM



ADDED SECTION 11/S4.11

3/4" = 1'-0"

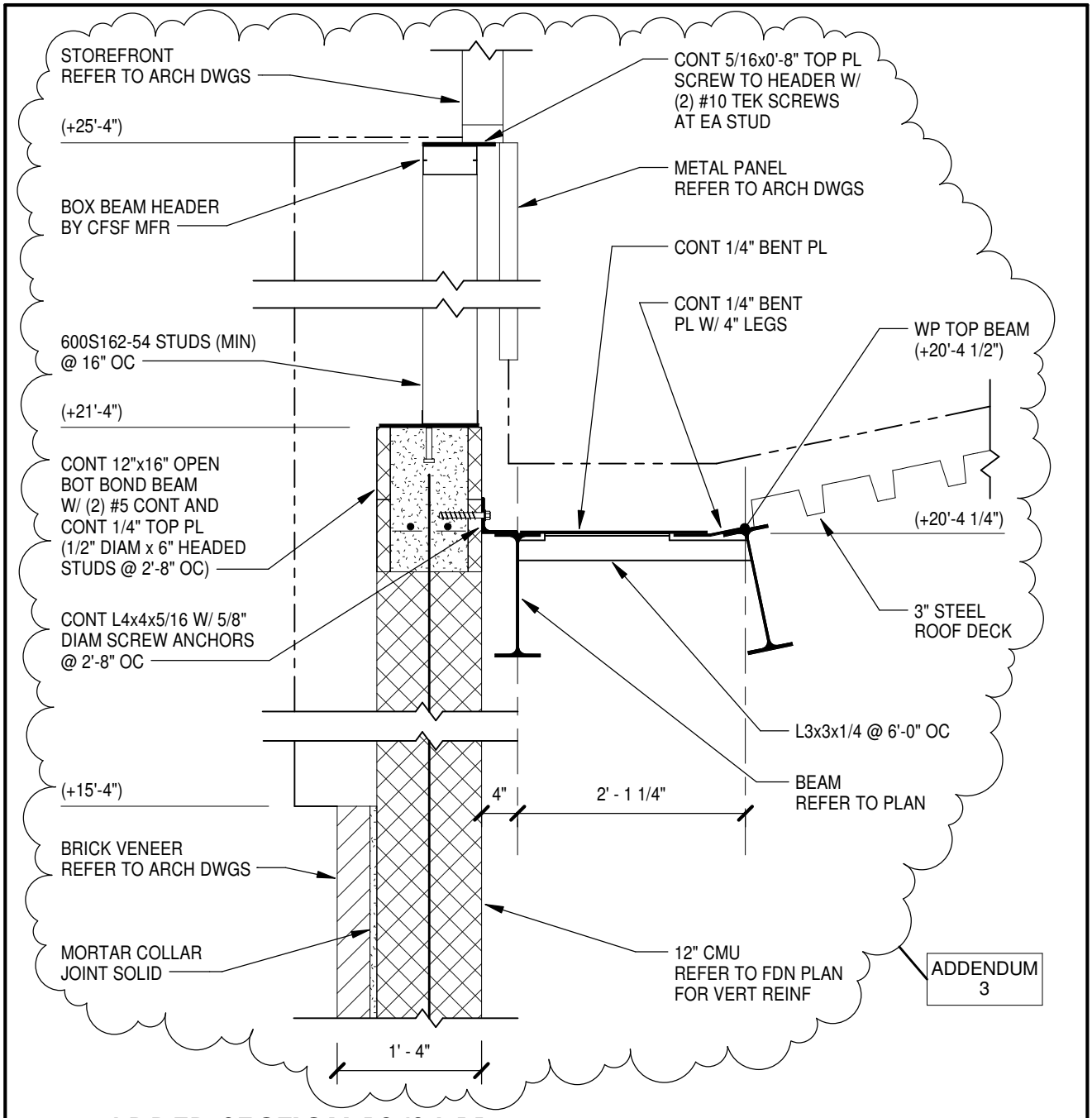
DRAWING TITLE:	CONTRACT DWG NO.:	PROJECT:
ADDED SECTION 11/S4.11	**S4.11**	**HERITAGE HIGH SCHOOL** **3020 WARDS FERRY ROAD, LYNCHBURG, VA 24502**

MOSELEYARCHITECTS

3200 NORFOLK STREET, RICHMOND, VIRGINIA, 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

DRAWN BY:	ATTACHMENT TO:	SUPPLEMENTAL DWG. NO:
JSO	**ADDENDUM #3**	**AD3-S13**
DATE: **02/28/14**	PROJECT NO: **520910**	

2/28/2014 10:08:54 AM



ADDED SECTION 12/S4.11

3/4" = 1'-0"

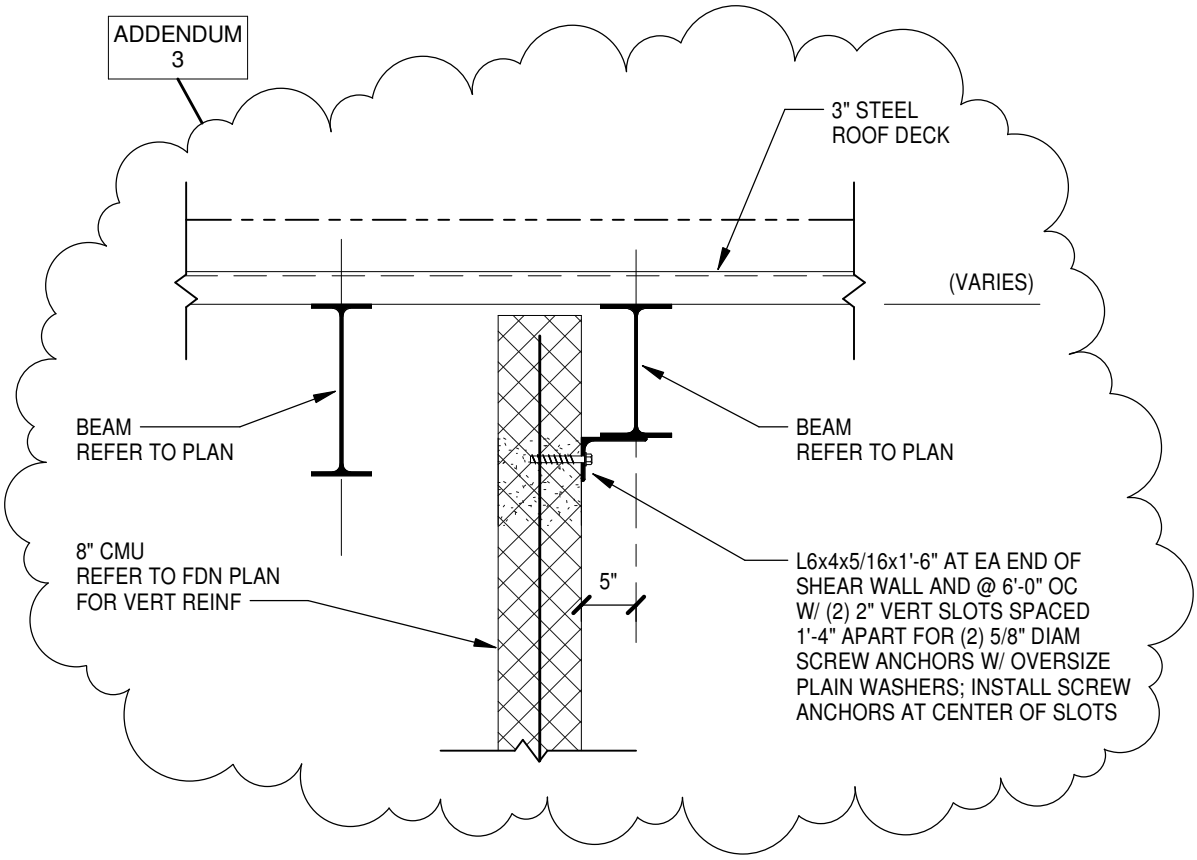
DRAWING TITLE:	CONTRACT DWG NO.:	PROJECT:
ADDED SECTION 12/S4.11	**S4.11**	**HERITAGE HIGH SCHOOL** **3020 WARDS FERRY ROAD, LYNCHBURG, VA 24502**

MOSELEYARCHITECTS

3200 NORFOLK STREET, RICHMOND, VIRGINIA, 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

DRAWN BY:	ATTACHMENT TO:	SUPPLEMENTAL DWG. NO:
JSO	**ADDENDUM #3**	**AD3-S14**
DATE: **02/28/14**	PROJECT NO: **520910**	

2/28/2014 10:08:56 AM



ADDED SECTION 13/S4.11

3/4" = 1'-0"

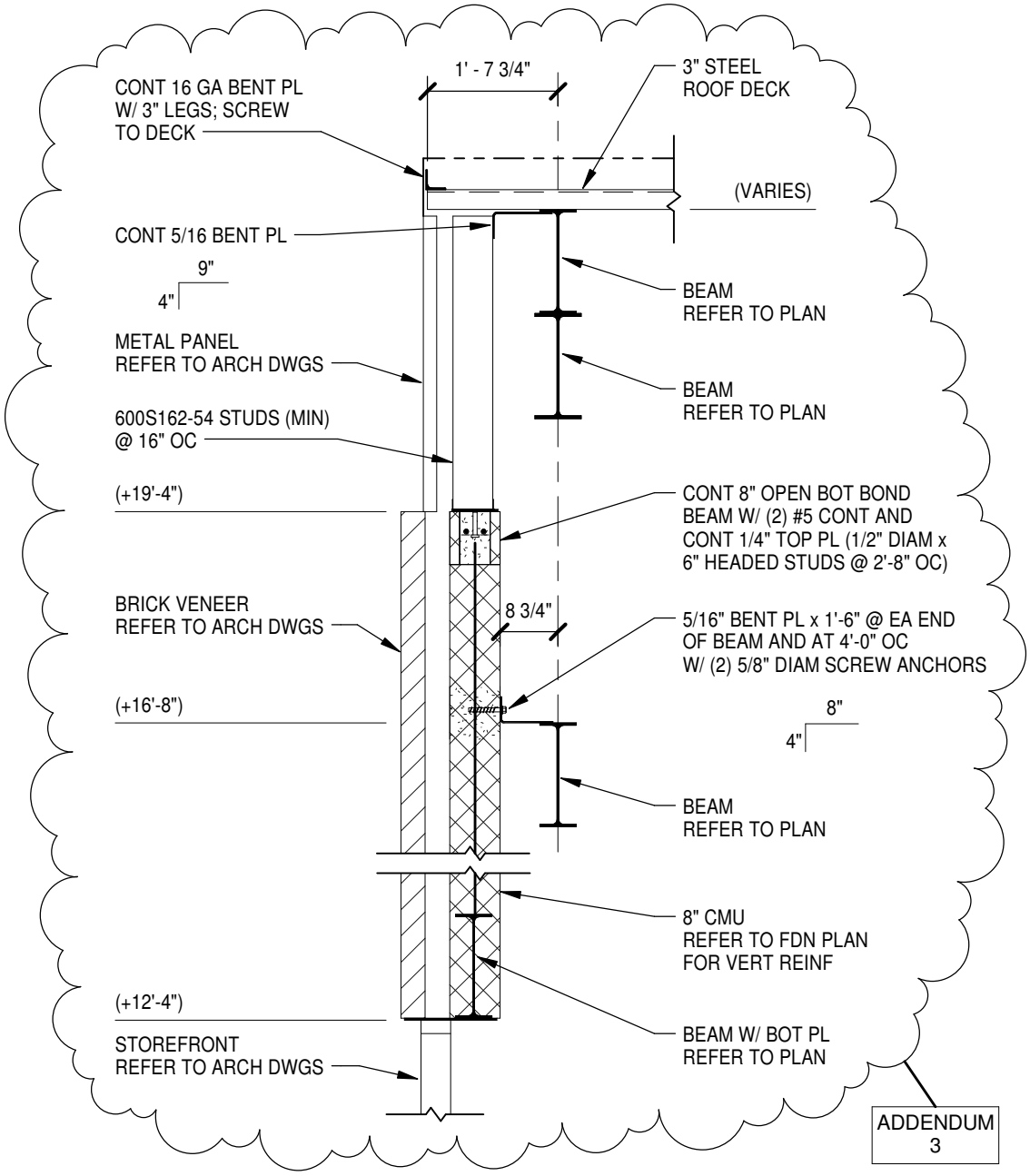
DRAWING TITLE:	CONTRACT DWG NO.:	PROJECT:
ADDED SECTION 13/S4.11	**S4.11**	**HERITAGE HIGH SCHOOL** **3020 WARDS FERRY ROAD, LYNCHBURG, VA 24502**

MOSELEYARCHITECTS

3200 NORFOLK STREET, RICHMOND, VIRGINIA, 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

DRAWN BY:	ATTACHMENT TO:	SUPPLEMENTAL DWG. NO:
JSO	**ADDENDUM #3**	**AD3-S15**
DATE: **02/28/14**	PROJECT NO: **520910**	

2/28/2014 10:17:48 AM



ADDED SECTION 14/S4.11

1/2" = 1'-0"

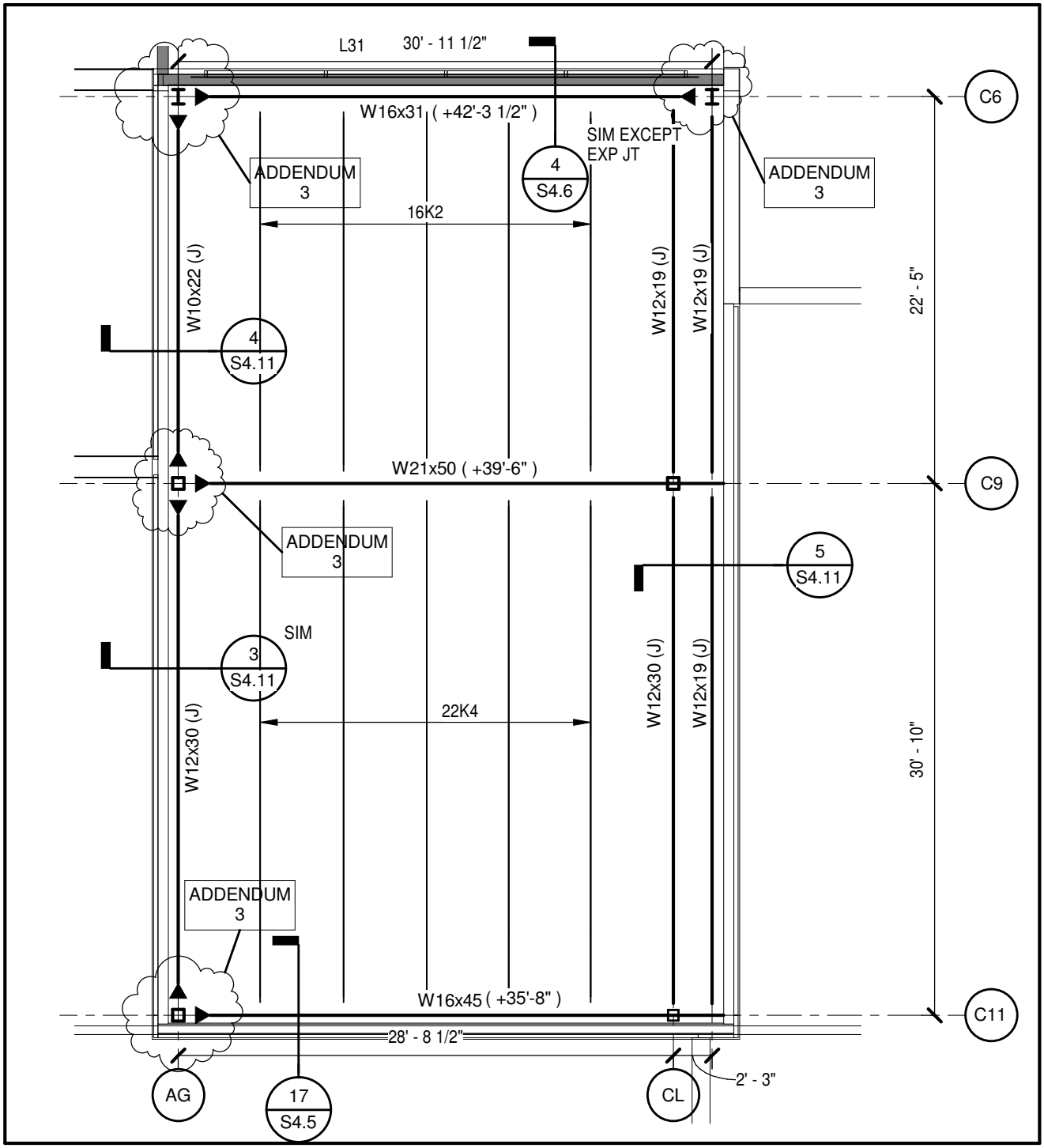
DRAWING TITLE:	CONTRACT DWG NO.:	PROJECT:
ADDED SECTION 14/S4.11	**S4.11**	**HERITAGE HIGH SCHOOL** **3020 WARDS FERRY ROAD, LYNCHBURG, VA 24502**

MOSELEYARCHITECTS

3200 NORFOLK STREET, RICHMOND, VIRGINIA, 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

DRAWN BY:	ATTACHMENT TO:	SUPPLEMENTAL DWG. NO:
JSO	**ADDENDUM #3**	**AD3-S16**
DATE: **02/28/14**	PROJECT NO: **520910**	

2/28/2014 10:12:19 AM



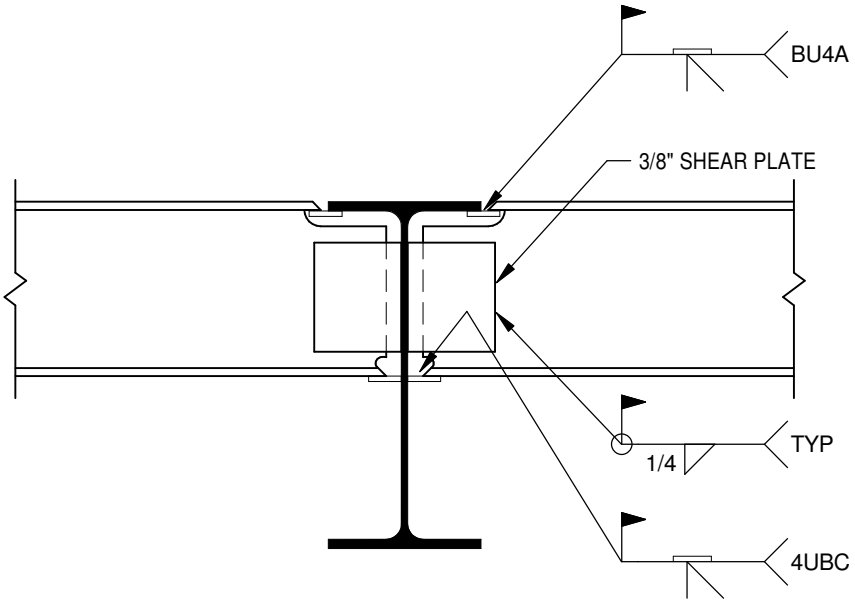
DRAWING TITLE:	CONTRACT DWG NO.:	PROJECT:
PARTIAL PART K - HIGH ROOF FRAMING PLAN AT LOCKER BAY K25	**S2.12**	**HERITAGE HIGH SCHOOL** **3020 WARDS FERRY ROAD, LYNCHBURG, VA 24502**

MOSELEYARCHITECTS

3200 NORFOLK STREET, RICHMOND, VIRGINIA, 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

DRAWN BY:	ATTACHMENT TO:	SUPPLEMENTAL DWG. NO:
JRS	**ADDENDUM #3**	**AD3-S17**
DATE: **02/28/14**	PROJECT NO: **520910**	

2/28/2014 10:35:21 AM



TYPICAL MOMENT CONN (W-BEAM TO W-BEAM)

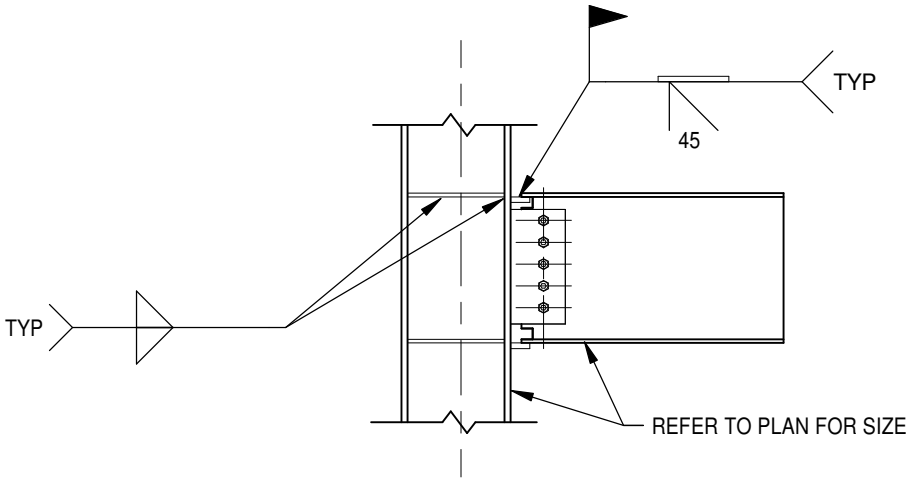
DRAWING TITLE: **TYPICAL MOMENT CONNECTION (W-BEAM TO W-BEAM)**	CONTRACT DWG NO.: **S5.1**	PROJECT: **HERITAGE HIGH SCHOOL** **3020 WARDS FERRY ROAD, LYNCHBURG, VA 24502**

MOSELEYARCHITECTS

3200 NORFOLK STREET, RICHMOND, VIRGINIA, 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

DRAWN BY: **JRS**	ATTACHMENT TO: **ADDENDUM #3**	SUPPLEMENTAL DWG. NO: **AD3-S18**
DATE: **02/28/14**	PROJECT NO: **520910**	

2/28/2014 10:08:59 AM



W SHAPE BEAM TO W SHAPE COLUMN MOMENT CONNECTION

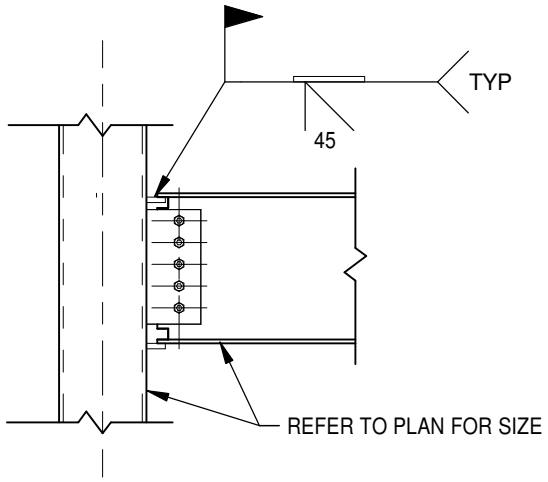
DRAWING TITLE:	CONTRACT DWG NO.:	PROJECT:
W SHAPE BEAM TO W SHAPE COLUMN MOMENT CONNECTION	**S5.1**	**HERITAGE HIGH SCHOOL** **3020 WARDS FERRY ROAD, LYNCHBURG, VA 24502**

MOSELEYARCHITECTS

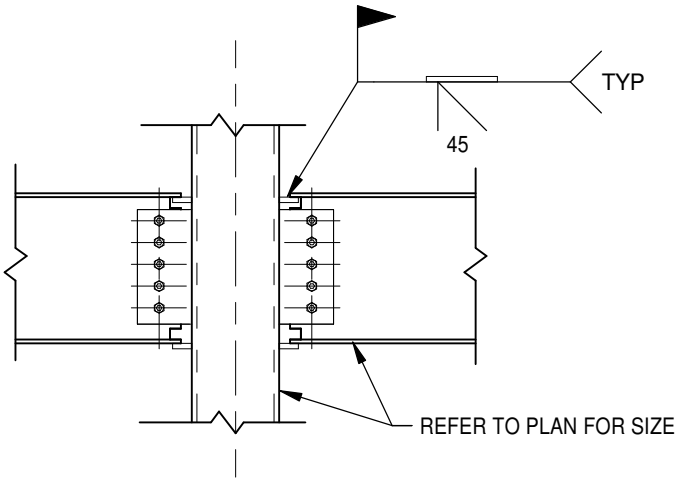
3200 NORFOLK STREET, RICHMOND, VIRGINIA, 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

DRAWN BY:	ATTACHMENT TO:	SUPPLEMENTAL DWG. NO:
JRS	**ADDENDUM #3**	**AD3-S19**
DATE: **02/28/14**	PROJECT NO: **520910**	

2/28/2014 10:09:00 AM



SINGLE SIDED



DOUBLE SIDED

W SHAPE BEAM TO HSS COLUMN MOMENT CONN

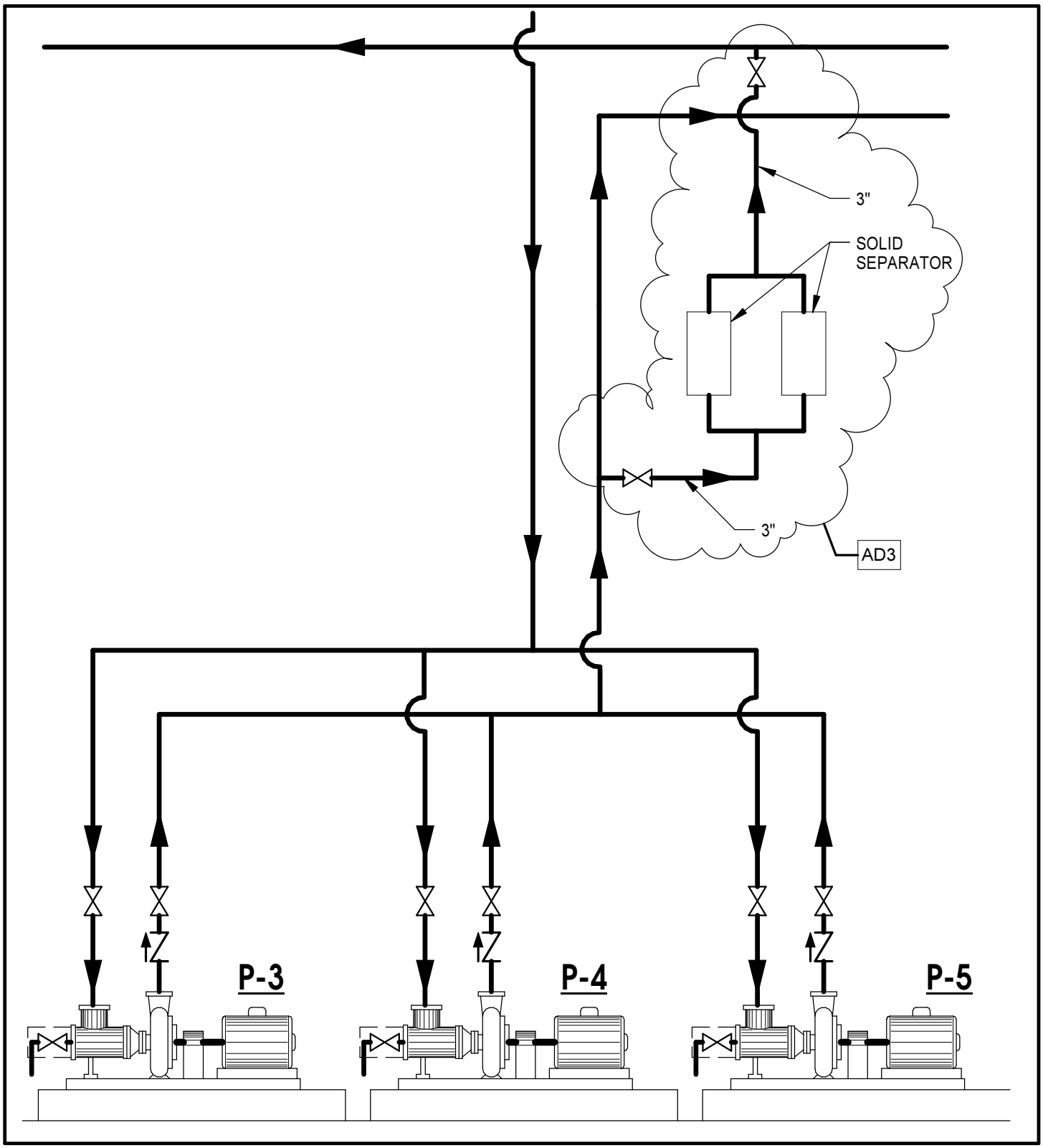
DRAWING TITLE:	CONTRACT DWG NO.:	PROJECT:
W SHAPE BEAM TO HSS COLUMN MOMENT CONNECTION	**S5.1**	**HERITAGE HIGH SCHOOL** **3020 WARDS FERRY ROAD, LYNCHBURG, VA 24502**

MOSELEYARCHITECTS

3200 NORFOLK STREET, RICHMOND, VIRGINIA, 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

DRAWN BY:	ATTACHMENT TO:	SUPPLEMENTAL DWG. NO:
JRS	**ADDENDUM #3**	**AD3-S20**
DATE: **02/28/14**	PROJECT NO: **520910**	

2/28/2014 10:09:02 AM



DRAWING TITLE:	CONTRACT DWG NO.:	PROJECT:
REVISED CHILLED WATER SCHEMATIC	**M6.1**	**HERITAGE HIGH SCHOOL** **3020 WARDS FERRY ROAD, LYNCHBURG, VA 24502**

MOSELEYARCHITECTS

3200 NORFOLK STREET, RICHMOND, VIRGINIA, 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

DRAWN BY:	ATTACHMENT TO:	SUPPLEMENTAL DWG. NO:
SWL	**ADDENDUM 3**	**AD3-M1**
DATE: **02/28/14**	PROJECT NO: **520910**	

2/28/2014 1:26:34 PM

LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	INITIAL DELIVERED LUMENS	LUMENS/WATT	WATTAGE	LAMP TYPE	VOLTAGE	MOUNTING	REMARKS
A1	2'X4' RECESSED ARCHITECTURAL TROFFER	PHILIPS/DAY-BRITE	2-DL-G-49L-840-4-D-UNV-DIM	4919	89	55	LED	277 V	RECESSED	PROVIDE FRAME FOR NEMA F MOUNTING WHERE REQUIRED
A2	2'X4' RECESSED ARCHITECTURAL TROFFER	PHILIPS/DAY-BRITE	2-DL-G-49L-840-4-D-UNV	4919	89	55	LED	277 V	RECESSED	PROVIDE FRAME FOR NEMA F MOUNTING WHERE REQUIRED
A3	2'X2' RECESSED ARCHITECTURAL TROFFER	PHILIPS/DAY-BRITE	2-DL-G-49L-840-2-D-UNV-DIM	4919	89	55	LED	277 V	RECESSED	PROVIDE FRAME FOR NEMA F MOUNTING WHERE REQUIRED
A4	2'X2' RECESSED ARCHITECTURAL TROFFER	PHILIPS/DAY-BRITE	2-DL-G-49L-840-2-D-UNV	4919	89	55	LED	277 V	RECESSED	PROVIDE FRAME FOR NEMA F MOUNTING WHERE REQUIRED
B1	2'X4' RECESSED ARCHITECTURAL TROFFER	PHILIPS/DAY-BRITE	2-CL-G-41L-840-4-D-UNV	4085	102	40	LED	277 V	RECESSED	PROVIDE FRAME FOR NEMA F MOUNTING WHERE REQUIRED
C1	COVE LIGHTING	COLOR KINETICS	EW COVE MX POWERCORE	696/FT	58.5	12.5	LED	277 V	COVE	PROVIDE IN CONTINUOUS RUNS AS INDICATED ON DWGS
D1	PLASTER-IN DOWNLIGHT	WHITEGOODS	P150RDL-XI-840-2000	2000	71	29	LED	277 V	PLASTER-IN	
D2	LENSED DOWNLIGHT	PATHWAY	6VLEDFRP-2000-4K	2000	63.7	26	LED	277 V	RECESSED	
D3	6" OPEN DOWNLIGHT	--	REFER TO SECTION 265561.1-2	2000	68	29	LED	120 V	RECSSED	PACKAGE WITH THEATRICAL LIGHTING
D4	6" OPEN DOWNLIGHT	PATHWAY	6VLB-70-4K-W-VLB	7000	77	90	LED	277 V	RECESSED	
D5	6" SLOPED CEILING DOWNLIGHT	PATHWAY	6VLBLW-70-4K-W-6VLVLLW2	7000	77	90	LED	277 V	RECESSED	
D6	10" PENDANT LIGHT	--	REFER TO SECTION 265561.1-2	5000	73	55	LED	120 V	PENDANT	PACKAGE WITH THEATRICAL LIGHTING
E1	ELEVATOR PIT LIGHT	PHILLIPS	BIS-18/WL-XX-BLA-GES-GU-AL	1849	69	18	LED	120 V	WALL	
F1	4' WALL MOUNTED FIXTURE	LEDALITE	7808-LA-E-QN-04-1-X	3384	81.9	41.3	LED	277 V	WALL	7'-6" AFF, UNO
F2	4' LED TLT TAPELIGHT	TUBE LIGHTING	DSHWL-VHO-24-W40	NA	NA	5.6	LED	277 V	INSIDE DISPLAY CASE	PROVIDE HARDWIRE POWER SUPPLY TLP12VHW60277
G1	GYM HIGH BAY FIXTURE	DIGITAL LUMENS	22504-ILE-3-26-4000K	24000	76	315	LED	277 V	SUSPENDED	PROVID WIRELESS CNTL SYSTEM
K2	SEAL GASKETED FOOD GRADE FOR KITCHEN	PHILLIPS	K2H-24-38I840-G-3-AP3-U	4900	88	60	LED	277 V	RECESSED	
L1	SUSPENDED LINEAR FIXTURE	LEDALITE	7606-LA-C-QM-04-7-277-X	4900	81.9	56	LED	277 V	SUSPENDED	
M1	INDUSTRIAL STRIP WITH REFLECTORS AND WIRE GUARD	PHILIPS/DAY-BRITE	LFR-4-FL-SLD-37-40-U	3700	95	40.8	LED	277 V	SURFACE/PENDANT	AIRCRAFT CABLE KIT
N	FULL CUT OFF WALL FIXTURE INTEGRAL PHOTOCELL	NITE BRITES	121-3-26LA-CW-UNV-PC	1849	71	26	LED	277 V	WALL	
O1	LED BOLLARD	GARDCO	BRM834-36-CWL-NW-360-UNIV	NA	NA	16	LED	277 V	GROUND	
O2	LED POST TOP FIXTURE	GARDCO	SFP-T3-5-90LA	7847	93	84	LED	277 V	12' POLE	
P1	48" ROUND PENDANT	PINNACLE	F48A-40-AC4-1C-CC	12450	85	100	LED	277 V	SUSPENDED	
P2	CIRCULAR RING FIXTURE	ALM	48R-LED7 6-4000-LED-CF-U-CSPPS1	NA	NA	8.5	LED	277 V	SUSPENDED	COORDINATE WITH DOME ABV
P3	8' PENDANT SLOT FIXTURE	AXIS LIGHTING	B6DLED-B2-750	6000	85.7	70	LED	277 V	SUSPENDED	
P4	12' PENDANT SLOT FIXTURE	AXIS LIGHTING	B6DLED-B2-750	9000	85.7	105	LED	277 V	SUSPENDED	
P5	MONOPOINT PENDANT	TECH	CORUM-700CORMPSLED840-LED277	NA	NA	7.2	LED	277 V	MONOPOINT	PROVIDE WITH REQ'D 4"CANOPY AND DRIVERS SUSPEND 3' FROM CEILING
P6	CIRCULAR RING FIXTURE	ALM	60R-LED7 6-4000-LED-CF-U-CSPRS1	NA	NA	8.5	LED	277 V	SUSPENDED	COORDINATE WITH DOME ABV
P7	THREE (3) CIRCULAR FIXTURES WITH DIFFERING ROTATION	ALM	48R-60R-72R-LED7 6-4000-LED-CF-U-CSPP C1	NA	NA	100	LED	277 V	SUSPENDED	
S1	4' SLOT FIXTURE	AXIS LIGHTING	B6RLED-B2-750	3000	85.7	35	LED	277 V	RECESSED	
S2	(2)3' SLOT FIXTURE	AXIS LIGHTING	B6RLED-B2-750	4500	85.7	52.5	LED	277 V	RECESSED	
S3	8' SLOT FIXTURE	AXIS LIGHTING	B6RLED-B2-750	6000	85.7	70	LED	277 V	RECESSED	
S4	12' SLOT FIXTURE	AXIS LIGHTING	B6RLED-B2-750	9000	85.7	105	LED	277 V	RECESSED	
W1	FULL CUT OFF WALL FIXTURE	GARDCO	121-3-26LA-CW-UNV	1849	71	26	LED	277 V	WALL	W. PHOTOCELL ON FIELD HOUSE & PRESSBOXES
W2	FLOOD LIGHT	NITE BRITES	FSI-90W-L-U-WHP-NP-CAB	5227	51	101	LED	277 V	CROSS ARM	MOUNT TO POLE AT 20' AFG
X1	EXIT	CHORIDE	46L-(1 OR 2)-R	NA	NA	2.5	LED	277 V	AS REQUIRED	X1-X7 FACE/ARROWS AS INDICATED
Z2	POLE MOUNTED FIXTURE TYPE II DIST	GARDCO	ECF-1-2-160LA-481A-CS-HS	12600	85	130	LED	277 V	SIDE ARM	POLE # RA4-HB-20-D1
Z3	POLE MOUNTED FIXTURE TYPE III DIST	GARDCO	ECF-1-3-215-641A-CW-HS	15269	85	130	LED	277 V	SIDE ARM	POLE # RA4-HB-20-D1
Z4	POLE MOUNTED FIXTURE TYPE IV DIST	GARDCO	EFC-1-4-215-641A-CS	15269	85	130	LED	277 V	SIDE ARM	POLE # RA4-HB-20-D1
Z5	POLE MOUNTED FIXTURE TYPE V DIST	GARDCO	ECF-1-5-215LA-641A-CW	19880	85	130	LED	277 V	SIDE ARM	POLE # RA4-HB-20-D1
Z5-2	(2) POLE MOUNTED FIXTURES TYPE V, DIST	GARDCO	ECF-2-5-215LA-641A-CW	19880	85	130	LED	277 V	SIDE ARM 180	POLE # RA4-HB-20-D2

ADD3

ADD3

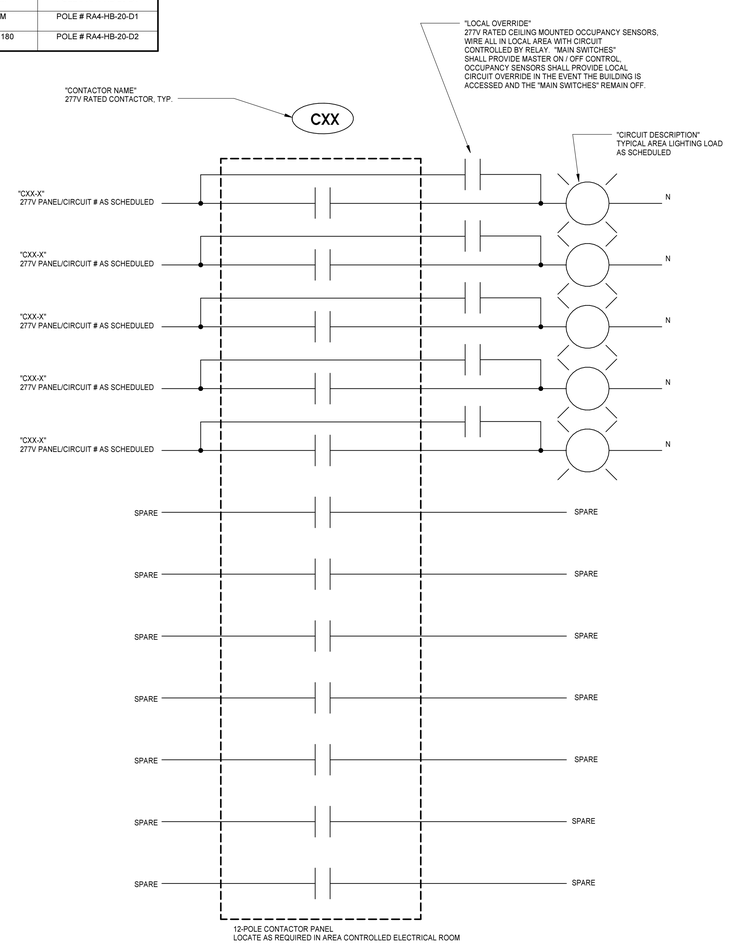
NOTE:
ALL LED LAMPS SHALL BE 4000K

ADD3

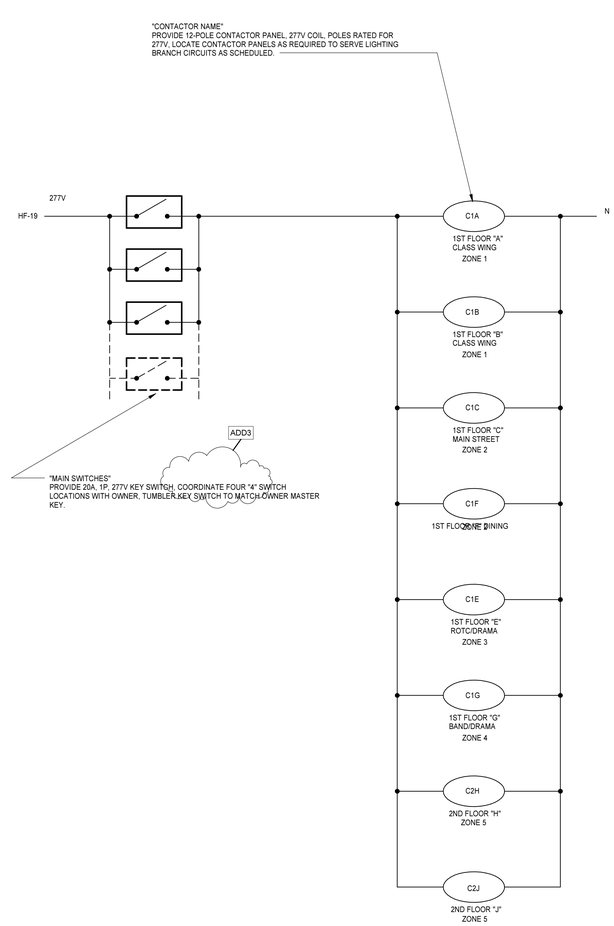
RELAY LIGHTING SCHEDULE

CONTACTOR NAME	PANEL	CIRCUIT #	VOLTAGE	CIRCUIT DESCRIPTION	LOCAL CONTROL	LOCAL OVERRIDE	MASTER OVERRIDE	NOTES
C1A-1	HA	15	277 V	CORRIDOR A01	NONE	OCC SENSOR	MAIN SWITCHES	ELECTRICAL A08
C1A-2	HA	17	277 V	CORRIDOR PART A	NONE	OCC SENSOR	MAIN SWITCHES	ELECTRICAL A08
C1A-3	HA	17	277 V	TOILET A06	NONE	OCC SENSOR	MAIN SWITCHES	ELECTRICAL A08
C1A-4	HA	17	277 V	TOILET A07	NONE	OCC SENSOR	MAIN SWITCHES	ELECTRICAL A08
C1A-5	HA	19	277 V	LOCKERS PART A	NONE	OCC SENSOR	MAIN SWITCHES	ELECTRICAL A08
C1B-1	HB1	13	277 V	CORRIDOR B01	NONE	OCC SENSOR	MAIN SWITCHES	ELECTRICAL B08
C1B-2	HB1	15	277 V	CORRIDOR PART B	NONE	OCC SENSOR	MAIN SWITCHES	ELECTRICAL B08
C1B-3	HB1	15	277 V	TOILET B09	NONE	OCC SENSOR	MAIN SWITCHES	ELECTRICAL B08
C1B-4	HB1	15	277 V	TOILET B10	NONE	OCC SENSOR	MAIN SWITCHES	ELECTRICAL B08
C1B-5	HB1	17	277 V	LOCKERS PART B	NONE	OCC SENSOR	MAIN SWITCHES	ELECTRICAL B08
C1C-1	HC	2	277 V	CORRIDOR K26	NONE	OCC SENSOR	MAIN SWITCHES	ELECTRICAL C28A
C1C-2	HC	4	277 V	CORRIDOR K26	NONE	OCC SENSOR	MAIN SWITCHES	ELECTRICAL C28A
C1E-1	HE	15	277 V	CORRIDOR PART E	NONE	OCC SENSOR	MAIN SWITCHES	ELECTRICAL E35
C1E-2	HE	17	277 V	TOILET E03	NONE	OCC SENSOR	MAIN SWITCHES	ELECTRICAL E35
C1E-3	HE	17	277 V	TOILET E04	NONE	OCC SENSOR	MAIN SWITCHES	ELECTRICAL E35
C1E-4	HE	17	277 V	CORRIDOR PART E	NONE	OCC SENSOR	MAIN SWITCHES	ELECTRICAL E35
C1F-1	HF	15	277 V	DINING F10	NONE	OCC SENSOR	MAIN SWITCHES	ELECTRICAL F12
C1F-2	HF	17	277 V	DINING F10	NONE	OCC SENSOR	MAIN SWITCHES	ELECTRICAL F12
C1G-1	HG	17	277 V	CORRIDOR AREA G	NONE	OCC SENSOR	MAIN SWITCHES	ELECTRICAL G15
C2H-1	HH	15	277 V	CORRIDOR H02	NONE	OCC SENSOR	MAIN SWITCHES	ELECTRICAL H14
C2H-2	HH	17	277 V	CORRIDOR PART H	NONE	OCC SENSOR	MAIN SWITCHES	ELECTRICAL H14
C2H-3	HH	17	277 V	TOILET H17	NONE	OCC SENSOR	MAIN SWITCHES	ELECTRICAL H14
C2H-4	HH	17	277 V	TOILET H16	NONE	OCC SENSOR	MAIN SWITCHES	ELECTRICAL H14
C2H-5	HH	19	277 V	LOCKERS PART H	NONE	OCC SENSOR	MAIN SWITCHES	ELECTRICAL H14
C2J-1	HJ	23	277 V	CORRIDOR J01	NONE	OCC SENSOR	MAIN SWITCHES	ELECTRICAL J14
C2J-2	HJ	25	277 V	CORRIDOR PART J	NONE	OCC SENSOR	MAIN SWITCHES	ELECTRICAL J14
C2J-3	HJ	25	277 V	TOILET J13	NONE	OCC SENSOR	MAIN SWITCHES	ELECTRICAL J14
C2J-4	HJ	25	277 V	TOILET J12	NONE	OCC SENSOR	MAIN SWITCHES	ELECTRICAL J14
C2J-5	HJ	27	277 V	LOCKERS PART J	NONE	OCC SENSOR	MAIN SWITCHES	ELECTRICAL J14

ADD3



TYPICAL CORRIDOR LIGHTING CONTACTOR WIRING



MASTER CORRIDOR LIGHTING WIRING SCHEMATIC

MOSELEYARCHITECTS
3200 NORFOLK STREET, RICHMOND, VA 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

COMMONWEALTH OF VIRGINIA
HAROLD A. LANNA
Lic. No. 13231
2/5/14
PROFESSIONAL ENGINEER

HERITAGE HIGH SCHOOL

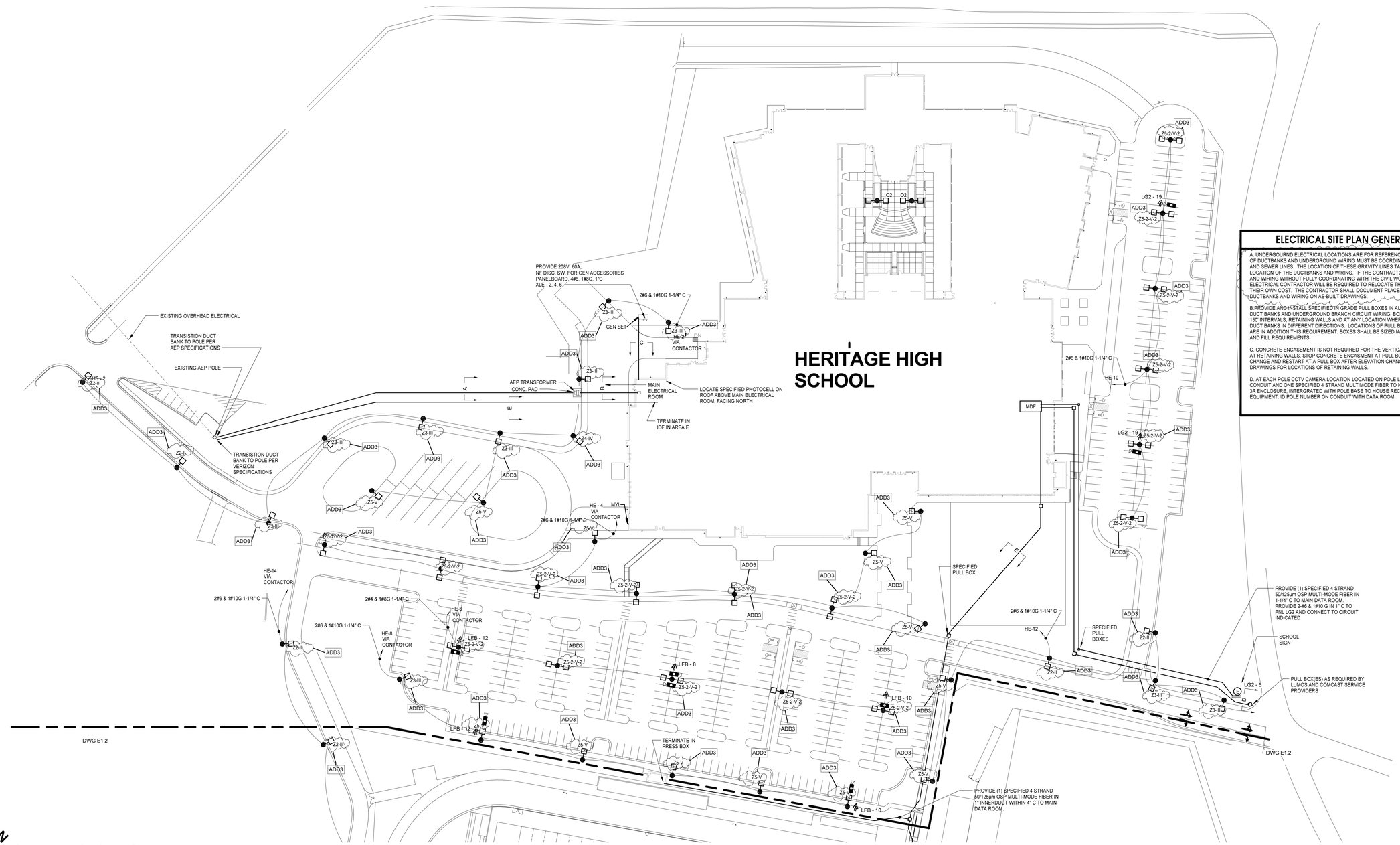
SDE NO.: 115-13-00-100
LYNCHBURG CITY SCHOOLS
3020 WARDS FERRY ROAD, LYNCHBURG, VA 24502

PROJECT NO: 520910	DATE: FEBRUARY 5, 2014
REVISIONS	
DATE	DESCRIPTION
2/28/14	ADD3

ELECTRICAL SCHEDULES

E0.2

2/27/2014 3:50:07 PM



SITE PLAN - ELECTRICAL - NORTH

1" = 50'-0"

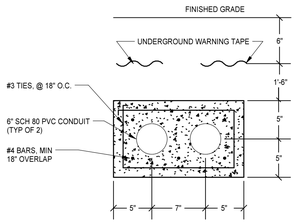
ELECTRICAL SITE PLAN GENERAL NOTES

A. UNDERGOUND ELECTRICAL LOCATIONS ARE FOR REFERENCE ONLY. EXACT PLACEMENT OF DUCTBANKS AND UNDERGROUND WIRING MUST BE COORDINATED WITH SANITARY, WATER AND SEWER LINES. THE LOCATION OF THESE GRAVITY LINES TAKES PRECEDENCE OVER THE LOCATION OF THE DUCTBANKS AND WIRING. IF THE CONTRACTOR INSTALLS THE DUCTBANKS AND WIRING WITHOUT FULLY COORDINATING WITH THE CIVIL WORK ON THESE LINES, THE ELECTRICAL CONTRACTOR WILL BE REQUIRED TO RELOCATE THE DUCTBANK AND WIRING AT THEIR OWN COST. THE CONTRACTOR SHALL DOCUMENT PLACEMENT OF THE ELECTRICAL DUCTBANKS AND WIRING ON AS-BUILT DRAWINGS.

B.PROVIDE AND INSTALL SPECIFIED IN GRADE PULL BOXES IN ALL COMMUNICATION / POWER DUCT BANKS AND UNDERGROUND BRANCH CIRCUIT WIRING. BOXES SHALL BE INSTALLED AT 150' INTERVALS, RETAINING WALLS AND AT ANY LOCATION WHERE CONDUITS BREAKOUT OF DUCT BANKS IN DIFFERENT DIRECTIONS. LOCATIONS OF PULL BOXES SHOWN ON DRAWINGS ARE IN ADDITION THIS REQUIREMENT. BOXES SHALL BE SIZED IAW NEC AND TIA BEND RADIUS AND FILL REQUIREMENTS.

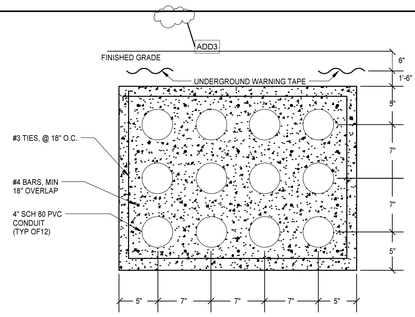
C. CONCRETE ENCASEMENT IS NOT REQUIRED FOR THE VERTICAL PORTIONS OF CONDUIT RUNS AT RETAINING WALLS. STOP CONCRETE ENCASMENT AT PULL BOX PRIOR TO ELEVATION CHANGE AND RESTART AT A PULL BOX AFTER ELEVATION CHANGE. REFER TO CIVIL DRAWINGS FOR LOCATIONS OF RETAINING WALLS.

D. AT EACH POLE CCTV CAMERA LOCATION LOCATED ON POLE LIGHTS, PROVIDE ONE 2" CONDUIT AND ONE SPECIFIED 4 STRAND MULTIMODE FIBER TO NEAREST DATA ROOM. PROVIDE 3R ENCLOSURE. INTERGRATED WITH POLE BASE TO HOUSE RECEPTACLE AND COMMUNICATION EQUIPMENT. ID POLE NUMBER ON CONDUIT WITH DATA ROOM.



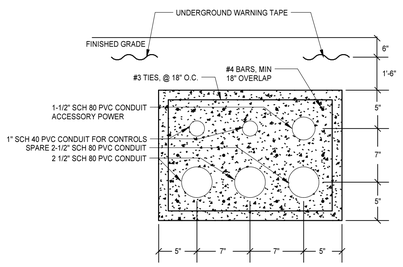
DUCTBANK SECTION A - PRIMARY

NO SCALE



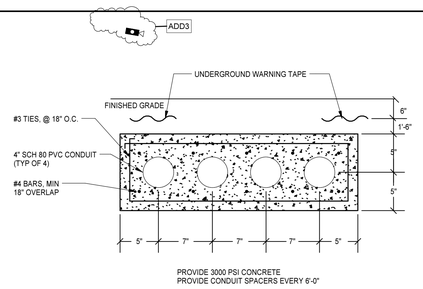
DUCTBANK SECTION B - SECONDARY

NO SCALE



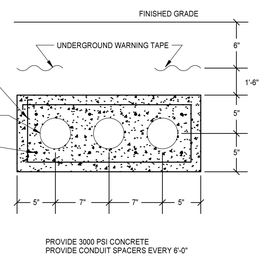
DUCTBANK SECTION C - GENERATOR

NO SCALE



DUCTBANK SECTION D - COMMUNICATIONS

NO SCALE



DUCTBANK SECTION E - COMMUNICATIONS

NO SCALE

0' 25' 50' 100'

MOSELEYARCHITECTS
3200 NORFOLK STREET, RICHMOND, VA 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

COMMONWEALTH OF VIRGINIA
HAROLD A. LANNA
Lic. No. 13231
2/5/14
PROFESSIONAL ENGINEER

HERITAGE HIGH SCHOOL

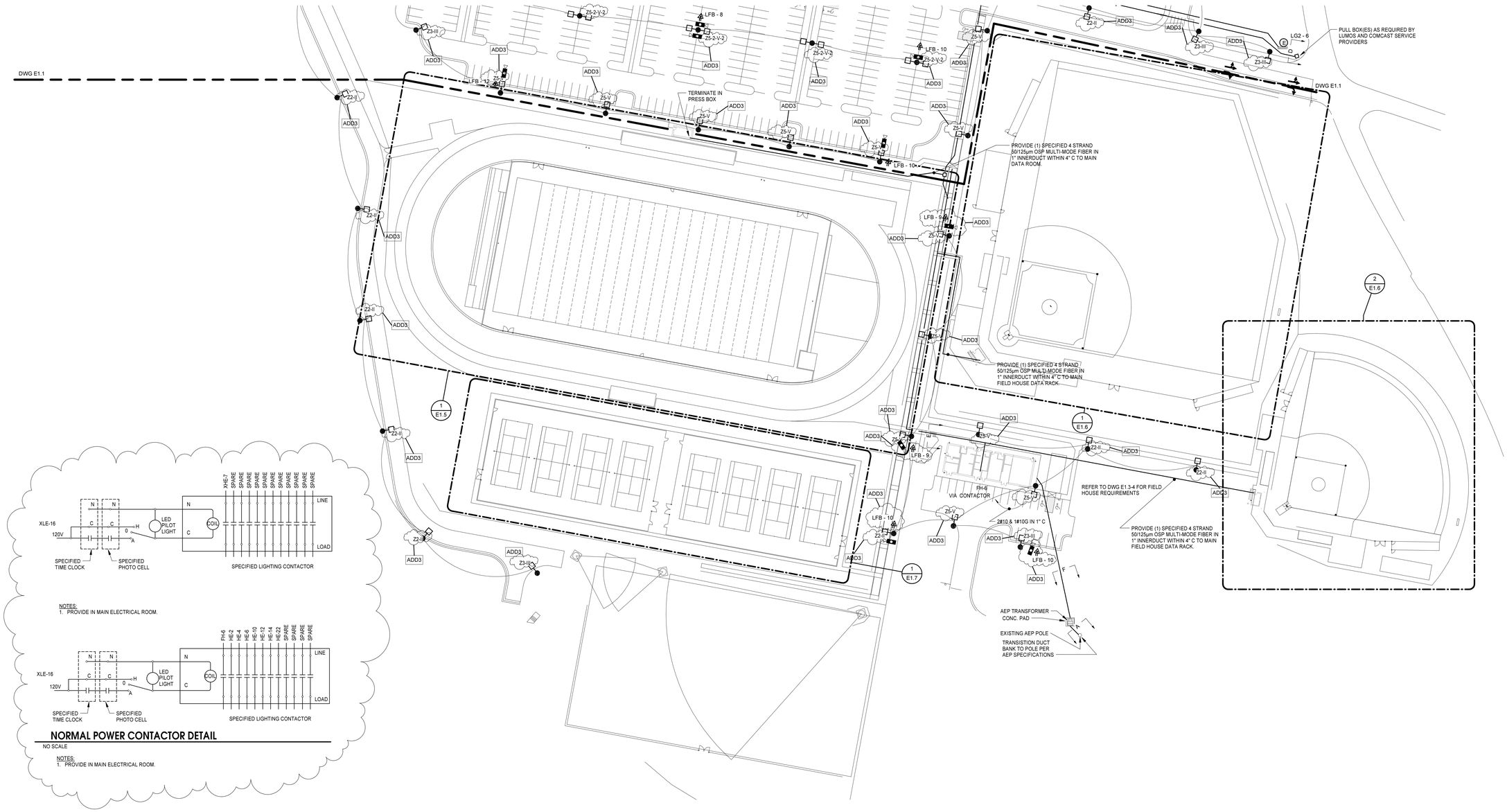
SDE NO.: 115-13-00-100
LYNCHBURG CITY SCHOOLS
3020 WARDS FERRY ROAD, LYNCHBURG, VA 24502

PROJECT NO: 520910	DATE: FEBRUARY 5, 2014
REVISIONS	
DATE	DESCRIPTION
2/28/14	ADD3

PARTIAL SITE PLAN NORTH - ELECTRICAL

E1.1

2/27/2014 3:30:45 PM



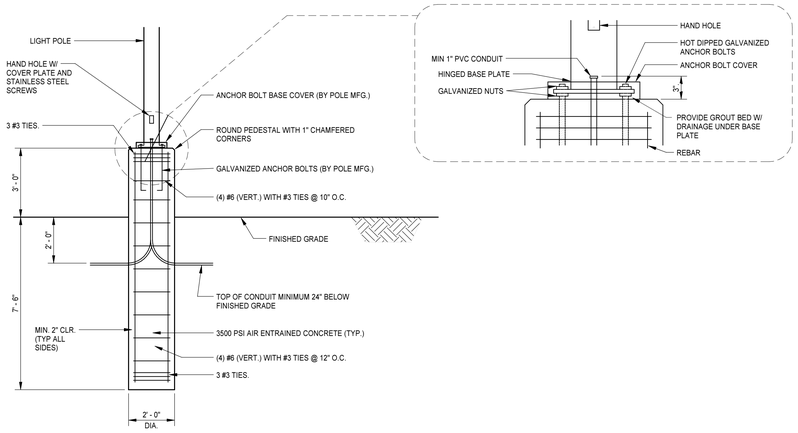
NORMAL POWER CONTACTOR DETAIL

NO SCALE

NOTES:
1. PROVIDE IN MAIN ELECTRICAL ROOM.

SITE PLAN - ELECTRICAL - SOUTH

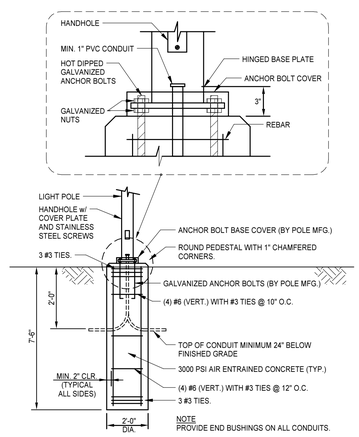
1" = 50'-0"



FOR USE WHERE POLE IS LOCATED IN PARKING AREAS AND NOT PROTECTED BY CURB. TOP OF POLE SHALL BE 20' AFG

POLE BASE DETAIL - PARKING AREA

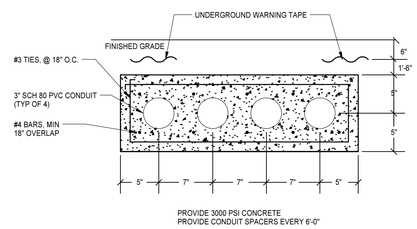
NO SCALE



NOTE
PROVIDE END BUSHINGS ON ALL CONDUITS.

FLUSH POLE BASE DETAIL

NO SCALE



DUCTBANK SECTION F - FIELD HOUSE SECONDARY

NO SCALE

ELECTRICAL SITE PLAN GENERAL NOTES

A. UNDERGOURND ELECTRICAL LOCATIONS ARE FOR REFERENCE ONLY. EXACT PLACEMENT OF DUCTBANKS AND UNDERGROUND WIRING MUST BE COORDINATED WITH SANITARY, WATER AND SEWER LINES. THE LOCATION OF THESE GRAVITY LINES TAKES PRECEDENCE OVER THE LOCATION OF THE DUCTBANKS AND WIRING. IF THE CONTRACTOR INSTALLS THE DUCTBANKS AND WIRING WITHOUT FULLY COORDINATING WITH THE CIVIL WORK ON THESE LINES, THE ELECTRICAL CONTRACTOR WILL BE REQUIRED TO RELOCATE THE DUCTBANK AND WIRING AT THEIR OWN COST. THE CONTRACTOR SHALL DOCUMENT PLACEMENT OF THE ELECTRICAL DUCTBANKS AND WIRING ON AS-BUILT DRAWINGS.

B.PROVIDE AND INSTALL SPECIFIED IN GRADE PULL BOXES IN ALL COMMUNICATION / POWER DUCT BANKS AND UNDERGROUND BRANCH CIRCUIT WIRING. BOXES SHALL BE INSTALLED AT 150' INTERVALS, RETAINING WALLS AND AT ANY LOCATION WHERE CONDUITS BREAKOUT OF DUCT BANKS IN DIFFERENT DIRECTIONS. LOCATIONS OF PULL BOXES SHOWN ON DRAWINGS ARE IN ADDITION THIS REQUIREMENT. BOXES SHALL BE SIZED IAW NEC AND TIA BEND RADIUS AND FILL REQUIREMENTS.

C. CONCRETE ENCASEMENT IS NOT REQUIRED FOR THE VERTICAL PORTIONS OF CONDUIT RUNS AT RETAINING WALLS. STOP CONCRETE ENCASMENT AT PULL BOX PRIOR TO ELEVATION CHANGE AND RESTART AT A PULL BOX AFTER ELEVATION CHANGE. REFER TO CIVIL DRAWINGS FOR LOCATIONS OF RETAINING WALLS.

D. AT EACH POLE CCTV CAMERA LOCATION LOCATED ON POLE LIGHTS, PROVIDE ONE 2" CONDUIT AND ONE SPECIFIED 4 STRAND MULTIMODE FIBER TO NEAREST DATA ROOM. PROVIDE 3R ENCLOSURE. INTERGRATED WITH POLE BASE TO HOUSE RECEPTACLE AND COMMUNICATION EQUIPMENT. ID POLE NUMBER ON CONDUIT WITH DATA ROOM.

0' 25' 50' 100'

MOSELEYARCHITECTS
3200 NORFOLK STREET, RICHMOND, VA 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

COMMONWEALTH OF VIRGINIA
HAROLD A. LANNA
Lic. No. 13231
2/5/14
PROFESSIONAL ENGINEER

HERITAGE HIGH SCHOOL

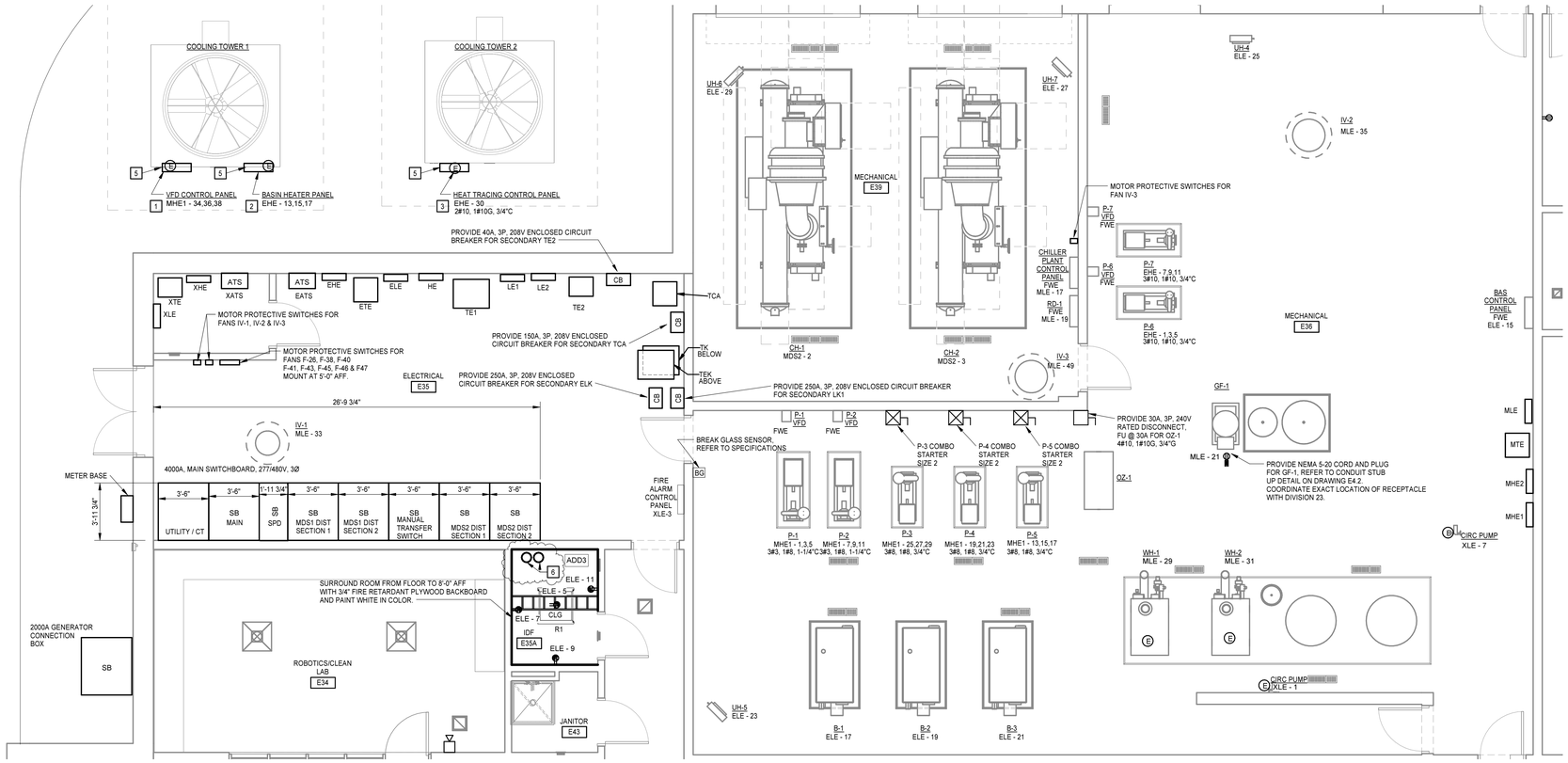
SDE NO.: 115-13-00-100
LYNCHBURG CITY SCHOOLS
3020 WARDS FERRY ROAD, LYNCHBURG, VA 24502

PROJECT NO: 520910	DATE: FEBRUARY 5, 2014
REVISIONS	
DATE	DESCRIPTION
2/28/14	ADD3

PARTIAL SITE PLAN SOUTH - ELECTRICAL

E1.2

2/27/2014 3:27:38 PM



1 E2.5.2 E3.1 **PARTIAL FIRST FLOOR PLAN - ELECTRICAL E35 & MECHANICAL E36**
1/4" = 1'-0"

COMMUNICATION GENERAL NOTES

A. ALL LADDER TRAY SHALL BE 18" WIDE.

B. ALL CEILING MOUNTED RACK RECEPTACLES LOCATED IN IDF'S AND MDF SHALL BE TWIST LOCK. COORDINATE NEMA TYPE VOLTAGE AND AMPERAGE OF RACK PRIORTO INSTALLATION.

ADD2

KEYNOTES

APPLIES TO DRAWINGS E3.1 MECHANICAL POWER
REPRESENTED BY n

1. COOLING TOWER FAN CONTROL PANEL FURNISHED WITH UNIT INSTALLED BY DIV 26 ON COOLING TOWER SUPPORT FRAME. PROVIDE 4#3, 1#8G, 1-1/4"C BRANCH CIRCUIT TO PANEL. PROVIDE 3#8, 1#8G, 3/4"C FROM PANEL TO EACH OF (2) 15HP FANS. ALSO PROVIDE LOW VOLTAGE WIRING TO (2) WATER ALRM SENSOR, (2) VIBRATION SENSORS AND (2) VIBRATION SWITCHES. WIRE SIZE SHALL BE PER THE MANUFACTURERS' REQUIREMENTS. LOW VOLTAGE TRANSFORMER SHALL BE PROVIDED IN THE PANEL.

2. COOLING TOWER BASIN HEATER CONTROL PANEL FURNISHED WITH UNIT, INSTALLED BY DIV 26 ON COOLING TOWER SUPPORT FRAME. PROVIDE 4#10, 1#10G, 3/4"C BRANCH CIRCUIT TO PANEL. PROVIDE 4#12, 3/4"C FROM PANEL TO EACH OF (2) 7 KW BASIN HEATERS. ALSO PROVIDE LOW VOLTAGE WIRING TO WATER CUTOFF AND THERMOSTAT. WIRE SIZE SHALL BE PER THE MANUFACTURERS' REQUIREMENTS. LOW VOLTAGE TRANSFORMER SHALL BE PROVIDED IN THE PANEL.

3. HEAT TRACE CONTROL PANEL FURNISHED BY DIV 21, INSTALLED BY DIV 26 ON COOLING TOWER SUPPORT FRAME.

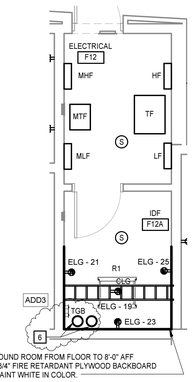
4. PROVIDE 20A, 277V RATED MOTOR PROTECTIVE SWITCH LOCATED IN ELECTRICAL ROOM AS INDICATED ON PLAN TO SERVE FAN LOCATED ON ROOF. LOCAL DISCONNECT PROVIDED FWE.

5. ALL CONDUIT IN THIS AREA SHALL PCV COATED RGC.

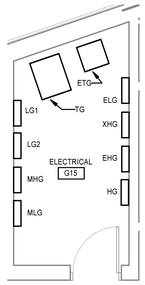
6. PROVIDE TWO (2) - 4" UNDER SLAB CONDUIT WITH 3 CELL FABRIC WITHIN INNERDUCT ROUTED TO MDF.

7. PROVIDE TWO (2) - 4" CONDUIT SLEEVES THROUGH SECOND FLOOR SLAB TO FIRST FLOOR IDF.

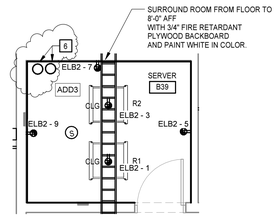
ADD3



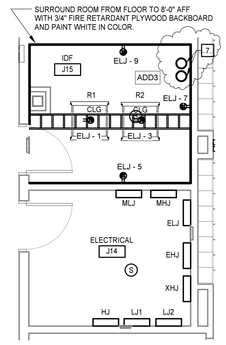
2 E2.6.2 E3.1 **PARTIAL FIRST FLOOR PLAN - ELECTRICAL F12 & IDF F12A**
1/4" = 1'-0"



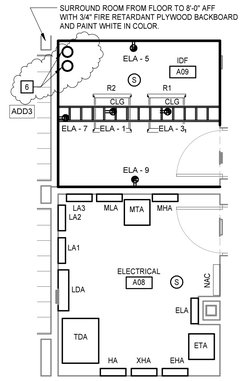
3 E2.7.2 E3.1 **PARTIAL FIRST FLOOR PLAN - ELECTRICAL G15**
1/4" = 1'-0"



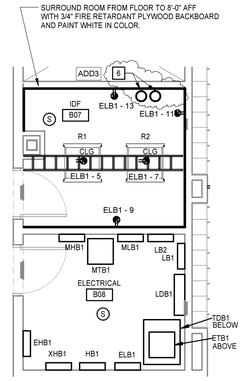
12 E2.2.2 E3.1 **PARTIAL FIRST FLOOR PLAN GOV SERVER B39**
1/4" = 1'-0"



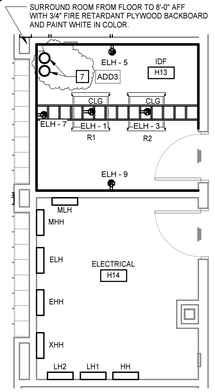
9 E2.9.2 E3.1 **PARTIAL SECOND FLOOR PLAN - ELECTRICAL J14 & IDF J15**
1/4" = 1'-0"



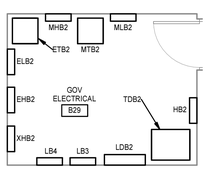
8 E2.1.2 E3.1 **PARTIAL FIRST FLOOR PLAN - ELECTRICAL A08 & IDF A09**
1/4" = 1'-0"



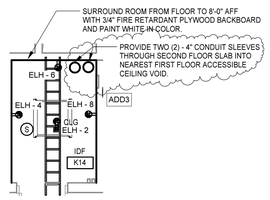
7 E2.2.2 E3.1 **PARTIAL FIRST FLOOR PLAN - IDF B07 & ELECTRICAL B08**
1/4" = 1'-0"



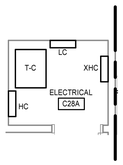
10 E2.8.2 E3.1 **PARTIAL SECOND FLOOR PLAN - IDF H13 & ELECTRICAL H14**
1/4" = 1'-0"



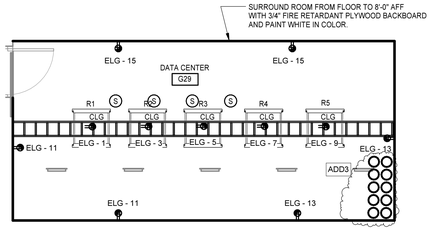
6 E2.2.2 E3.1 **PARTIAL FIRST FLOOR PLAN GOV ELEC B29**
1/4" = 1'-0"



11 E2.10.2 E3.1 **PARTIAL SECOND FLOOR PLAN - IDF K15**
1/4" = 1'-0"



5 E2.3.2 E3.1 **PARTIAL FIRST FLOOR PLAN - ELECTRICAL C28A**
1/4" = 1'-0"



4 E2.7.2 E3.1 **PARTIAL FIRST FLOOR PLAN - DATA CENTER G29**
1/4" = 1'-0"

0' 1' 2' 4' 8'

MOSELEYARCHITECTS
3200 NORFOLK STREET, RICHMOND, VA 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

COMMONWEALTH OF VIRGINIA
HAROLD A. LANNA
Lic. No. 13231
2/5/14
PROFESSIONAL ENGINEER

HERITAGE HIGH SCHOOL

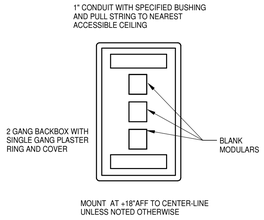
SDE NO.: 115-13-00-100
LYNCHBURG CITY SCHOOLS
3020 WARDS FERRY ROAD, LYNCHBURG, VA 24502

PROJECT NO: 520910	DATE: FEBRUARY 5, 2014
REVISIONS	
DATE	DESCRIPTION
Date 1	ADD2
2/28/14	ADD3

ENLARGED ELECTRICAL PLANS

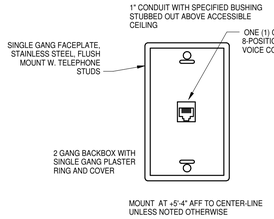
E3.1

2/21/2014 2:44:47 PM



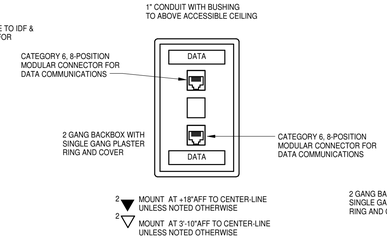
TELECOMMUNICATIONS OUTLET DETAIL - TYPE 0

DRAWING SYMBOL 0

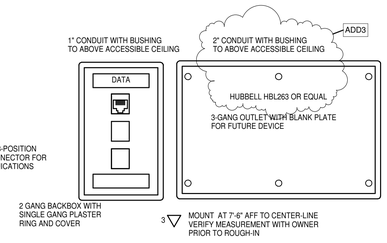


TELECOMMUNICATIONS OUTLET DETAIL - TYPE 1

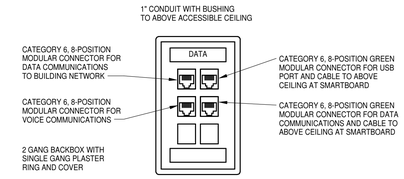
1



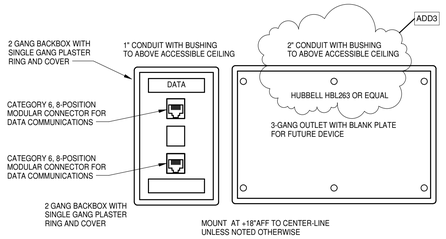
TELECOMMUNICATIONS OUTLET DETAIL - TYPE 2



TELECOMMUNICATIONS OUTLET DETAIL - TYPE 3

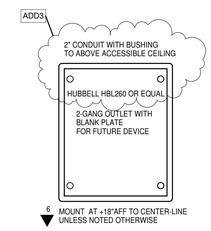


TELECOMMUNICATIONS OUTLET DETAIL - TYPE 4

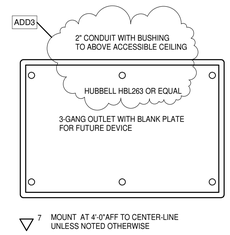


TELECOMMUNICATIONS OUTLET DETAIL - TYPE 5

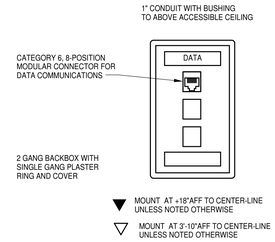
5



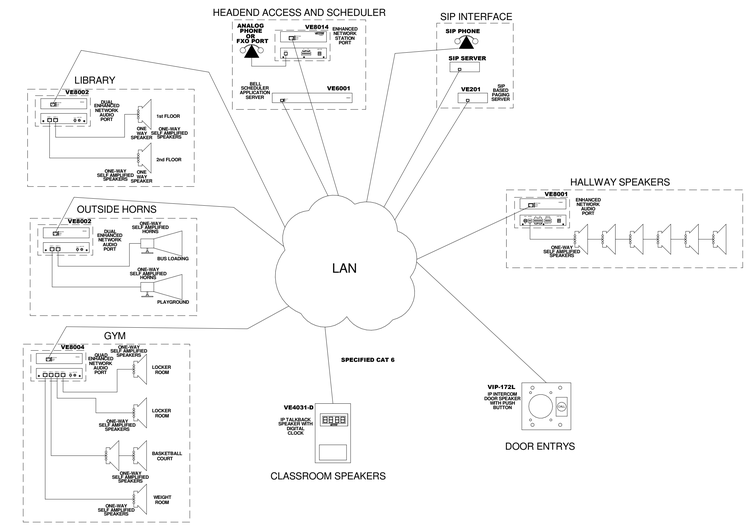
TELECOMMUNICATIONS OUTLET DETAIL - TYPE 6



TELECOMMUNICATIONS OUTLET DETAIL - TYPE 7

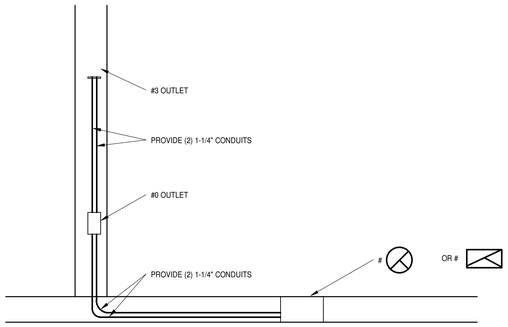


TELECOMMUNICATIONS OUTLET DETAIL - TYPE - NONE

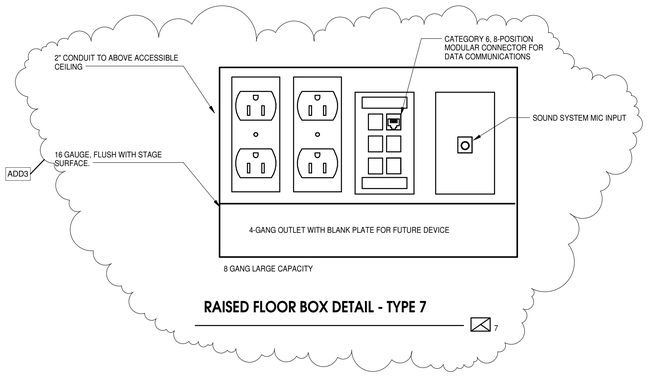


INTERCOM BLOCK DIAGRAM

NO SCALE

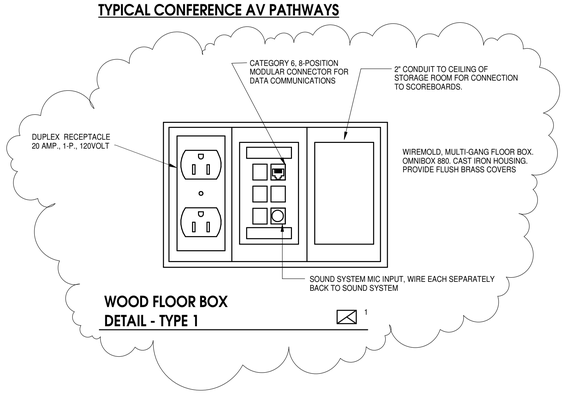


TYPICAL CONFERENCE AV PATHWAYS



RAISED FLOOR BOX DETAIL - TYPE 7

7



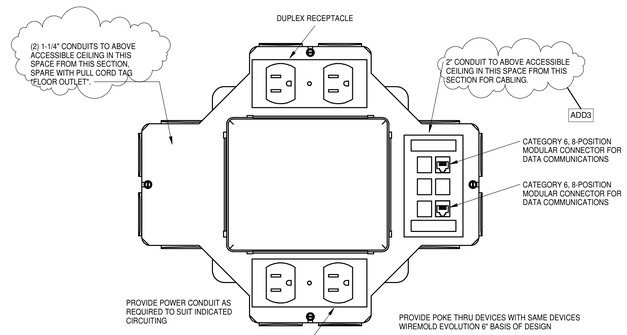
WOOD FLOOR BOX DETAIL - TYPE 1

1

PROVIDE POKE THRU DEVICES WITH SAME DEVICES WIREMOLD EVOLUTION 6" BASIS OF DESIGN

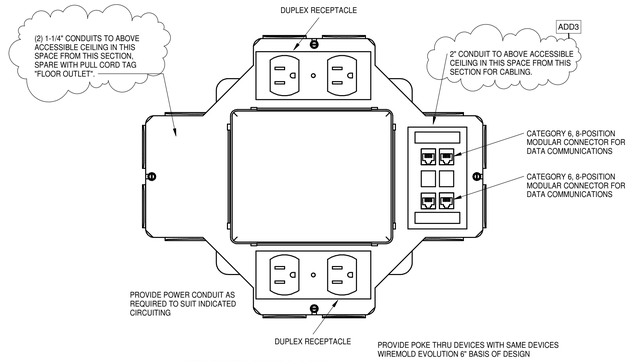
RECESSED FLOOR BOX DETAIL - TYPE 1

1



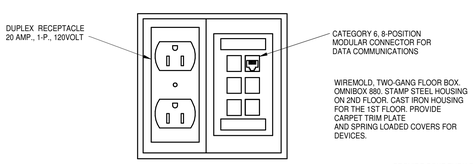
RECESSED FLOOR BOX DETAIL - TYPE 2

2



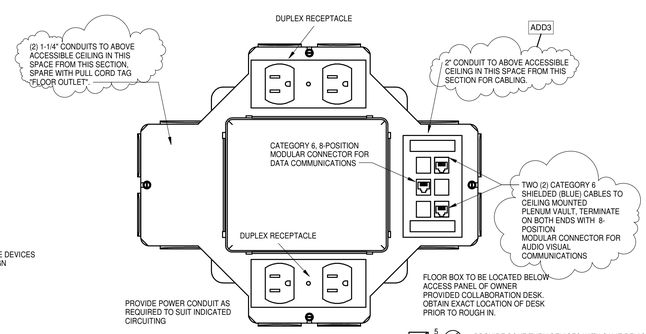
RECESSED FLOOR BOX DETAIL - TYPE 3

3



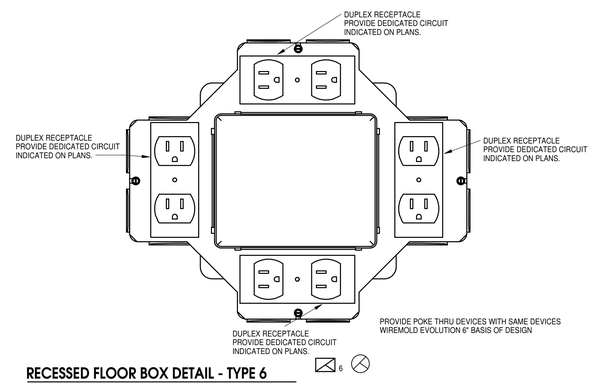
RECESSED FLOOR BOX DETAIL - TYPE 4

4



RECESSED FLOOR BOX DETAIL - TYPE 5

5



RECESSED FLOOR BOX DETAIL - TYPE 6

6

MOSELEYARCHITECTS
3200 NORFOLK STREET, RICHMOND, VA 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

COMMONWEALTH OF VIRGINIA
HAROLD A. LANNA
Lic. No. 13231
2/5/14
PROFESSIONAL ENGINEER

HERITAGE HIGH SCHOOL

SDE NO.: 115-13-00-100
LYNCHBURG CITY SCHOOLS
3020 WARDS FERRY ROAD, LYNCHBURG, VA 24502

PROJECT NO: 520910	DATE: FEBRUARY 5, 2014
REVISIONS	
DATE	DESCRIPTION
2/28/14	ADD3

ELECTRICAL DETAILS

E4.3

2/28/2014 8:04:19 AM

MECHANICAL / ELECTRICAL COORDINATION SCHEDULE

EQUIPMENT OR DEVICE	ELECTRICAL SERVICE VOLTAGE	ELECTRICAL SERVICE PHASE	FURNISHED BY DIV 23	FURNISHED BY DIV 26	INSTALLED BY DIV 23	INSTALLED BY DIV 26	POWER WIRING PROVIDED BY DIV 23	POWER WIRING PROVIDED BY DIV 26	CONTROL WIRING PROVIDED BY DIV 23	CONTROL WIRING PROVIDED BY DIV 26	DISCONNECT PROVIDED BY DIV 23	DISCONNECT PROVIDED BY DIV 26	STARTER PROVIDED BY DIV 23	STARTER PROVIDED BY DIV 26	COMBINATION STARTER PROVIDED BY DIV 23	COMBINATION STARTER PROVIDED BY DIV 26	VSD PROVIDED BY DIV 23	VSD PROVIDED BY DIV 26	EMERGENCY POWER REQUIRED	NOTES
ENERGY RECOVERY UNIT (ERU-1)	480	3	X		X			X	X		X						X			SINGLE-POINT POWER CONNECTION FOR UNIT, VSDS INCLUDED WITH UNIT
ROOFTOP UNIT WITH ENERGY RECOVERY (RTU-01, 02, 04, 05, 08, 09, 10, 12, 13, 14, 15, & 16)	480	3	X		X			X	X		X						X			SINGLE-POINT POWER CONNECTION FOR UNIT, VSDS INCLUDED WITH UNIT
ROOFTOP UNIT (RTU-03, 06, 07, 11, & 17)	480	3	X		X			X	X		X						X			SINGLE-POINT POWER CONNECTION FOR UNIT, VSDS INCLUDED WITH UNIT
PACKAGED ROOFTOP UNIT (RTU-18)	480	3	X		X			X	X		X						X			SINGLE-POINT POWER CONNECTION FOR UNIT, VSDS INCLUDED WITH UNIT
WATER-COOLED CHILLER (CH-1 & 2)	480	3	X		X			X	X			X								
CHILLER CONTROL PANEL	120	1	X		X			X	X			X								
COOLING TOWER FAN (CT-1 & 2)	480	3	X		X			X	X			X					X			
COOLING TOWER BASIN HEATER (CT-1 & 2)	480	3	X		X			X	X			X							X	
HEAT TRACING CONTROL PANEL	277	1	X		X			X	X			X							X	DIV 23 PROVIDE LINE VOLTAGE CONTROLLER
CHILLED WATER PUMPS (P-1 & 2)	480	3	X		X			X	X		X						X			
CONDENSER WATER PUMPS (P-3, 4, & 5)	480	3	X		X			X	X			X								
HOT WATER PUMPS (P-6 & 7)	480	3	X		X			X	X		X						X		X	
BOILER (B-1 THRU 3)	120	1	X		X			X	X			X							X	
FAN (FANS CONTROLLED BY THERMOSTAT)	120	1	X		X			X		X		X								DIV 23 PROVIDE LINE VOLTAGE THERMOSTAT & DIV 26 POWER WIRE IN SERIES
FAN (FANS CONTROLLED BY HEAT/COOL THERMOSTAT)(F-26, 43)	120	1	X		X			X		X		X								DIV 26 POWER WIRE IN SERIES W/ WALL MOUNTED LINE VOLTAGE COMBINATION HEAT/COOL T-STAT & POWER WIRE IN PARALLEL W/ MOTORIZED INTAKE DAMPER.
FAN (FANS CONTROLLED BY BAS)	120	1	X		X			X	X			X								
FAN (CONTROLLED BY BAS)(F-10)	480	3	X		X			X	X			X		X						
FAN (FANS CONTROLLED BY BAS SPECIAL)(F-41)	120	1	X		X			X	X			X								INTERLOCK WITH REFRIGERANT DETECTION SYSTEM
FAN (DISHWASH)(F-19 & 21)	120	1	X		X			X		X		X								DIV 26 INTERLOCK WITH WAREWASHER HOOD
FAN (KITCHEN HOOD)(F-18 & 20)	480	3	X		X			X	X			X								VSDS PROVIDED BY VAV HOOD MANUFACTURER, POWER FROM HOOD CONTROL PANEL TO FAN MOTOR
FAN (FANS CONTROLLED BY HOOD SWITCH)(F-8, 9, 15, 16, 17)	120	1	X		X			X		X		X								
CIRCULATION FAN (CF-1 & 2)	120	1	X		X			X	X	X		X								DIV 26 POWER WIRE IN SERIES WITH WALL MOUNTED SPEED SWITCH. DIV 23 BAS PROVIDE ENABLE/DISABLE.
GRAVITY VENTILATOR (IV-1, 2, 3)	120	1	X		X			X		X		X								DIV 26 POWER WIRE IN PARALLEL WITH ASSOCIATED EXHAUST FAN
FAN-POWERED TERMINAL UNITS (TUXX-XX)	277	1	X		X			X	X		X									
SINGLE-DUCT TERMINAL UNITS (TUXX-XX)	120	1	X		X			X	X		X									
BLOWER COIL (BC-1 THRU 6)	120	1	X		X			X	X			X								
HOT WATER UNIT HEATER (UH-1, 2)	120	1	X		X			X	X		X									INTERLOCK WITH ASSOCIATED TERMINAL UNIT CONTROL. UTILIZE AS SECOND STAGE OF HEAT.
HOT WATER UNIT HEATER (UH-3, 4, 5)	120	1	X		X			X		X	X								X	DIV 26 POWER WIRE IN SERIES W/ WALL MOUNTED LINE VOLTAGE COMBINATION HEAT/COOL T-STAT.
HOT WATER UNIT HEATER (UH-6, 7)	120	1	X		X			X		X	X								X	DIV 26 POWER WIRE IN SERIES W/ WALL MOUNTED LINE VOLTAGE THERMOSTAT
CABINET UNIT HEATER (CUH-1, 2, 3, 4, 5, 6, 7)	120	1	X		X			X	X		X									
ELECTRIC UNIT HEATER (EUH-1)	277	1	X		X			X	X		X									
MAKE-UP AIR UNIT SUPPLY FAN (MAU-1 & 2)	480	3	X		X			X	X			X								VSDS PROVIDED BY VAV HOOD MANUFACTURER, POWER FROM HOOD CONTROL PANEL TO FAN MOTOR
MAKE-UP AIR UNIT GAS HEATER/CONTROLS/MOTORIZED DAMPER (MAU-1 & 2)	120	1	X		X			X	X			X								
MAKE-UP AIR UNIT (MAU-3)	480	3	X		X			X	X			X								INTERLOCK WITH DUST COLLECTOR OPERATION
COMPUTER ROOM AIR CONDITIONER - INDOOR UNIT (CRAC-1A)	480	3	X		X			X	X			X							X	
COMPUTER ROOM AIR CONDITIONER - OUTDOOR UNIT (CRAC-1B)	480	3	X		X			X	X			X							X	
OZONE SYSTEM (OZ-1)	208	3	X		X			X	X			X								
GLYCOL FEEDER (GF-1)	120	1	X		X		X		X											PROVIDE WITH POWER CHORD AND PLUG AT 120V 60 HZ
MAIN BAS CONTROL PANEL	120	1	X		X			X	X			X							X	
DUCT SMOKE DETECTOR (EACH)	24	1		X	X			X	X	X										
DUST COLLECTOR (DC-1)	480	3	X		X			X		X		X		X						DIV 26 WALL SWITCH CONTROL OF FAN MOTOR STARTER

Mechanical Equipment - ELECTRICAL DATA

Mark	Voltage	Number Of Poles	Maximum Over Current Protection	Apparent Load	Panel	Circuit Number
B-1	120 V	1	20.0 A	0.2 kVA	ELE	17
B-2	120 V	1	20.0 A	0.2 kVA	ELE	19
B-3	120 V	1	20.0 A	0.2 kVA	ELE	21
BAS CONTROL PANEL	120 V	1	20.0 A	0.5 kVA	ELE	15
BC-1	115 V	1	15.0 A	.70 kVA	MLG	9
BC-2	115 V	1	15.0 A	.70 kVA	MLG	7
BC-3	115 V	1	15.0 A	.70 kVA	MLG	5
BC-4	115 V	1	15.0 A	.70 kVA	MLG	4
BC-5	115 V	1	30.0 A	1.5 kVA	MLB1	16
BC-6	120 V	1	15.0 A		MLJ	13
CF-1	120 V	1	20.0 A	0.5 kVA	MLA	2
CF-2	120 V	1	20.0 A	0.5 kVA	MLB1	2
CH-1	480 V	3	600.0 A	263.0 kVA	MDS2	2
CH-2	480 V	3	600.0 A	263.0 kVA	MDS2	3
CHILLER PLANT CONTROL PANEL	120 V	1	20.0 A	0.5 kVA	MLE	17
CRAC-1A	460 V	3	20.0 A	12.5 kVA	EHG	7,9,11
CRAC-1B	460 V	3	25.0 A	14.2 kVA	EHG	1,3,5
CUH-1	120 V	1	15.0 A	.20 kVA	MLA	21
CUH-2	120 V	1	15.0 A	.20 kVA	MLB1	23
CUH-3	120 V	1	15.0 A	.20 kVA	MLB1	21
CUH-4	120 V	1	15.0 A	.20 kVA	MLA	19
CUH-5	120 V	1	15.0 A	.20 kVA	MLB2	23
CUH-6	120 V	1	15.0 A	.20 kVA	MLF	16
CUH-7	120 V	1	15.0 A	.20 kVA	MLG	19
DC-1	480 V	3	30.0 A	11.6 kVA	MHE1	2,4,6
ERU-1	480 V	3	30.0 A	16.3 kVA	MHE2	8,10,12
EUH-1	277 V	1	20.0 A	3.3 kVA	FH	4
F-1	120 V	1	15.0 A	0.5 kVA	MLF	6
F-2	120 V	1	15.0 A	0.5 kVA	MLH	4
F-3	120 V	1	15.0 A	0.5 kVA	MLH	12
F-4	120 V	1	15.0 A	0.5 kVA	MLJ	6
F-5	120 V	1	15.0 A	0.5 kVA	MLJ	4
F-6	120 V	1	15.0 A	0.5 kVA	MLG	15
F-7	120 V	1	15.0 A	0.5 kVA	MLG	2
F-8	120 V	1	15.0 A	1.1 kVA	MLH	8
F-9	120 V	1	15.0 A	1.1 kVA	MLH	10
F-10	480 V	3	15.0 A	2.5 kVA	MHF	32,34,36
F-11	120 V	1	15.0 A	0.5 kVA	MLJ	7
F-12	120 V	1	15.0 A	0.5 kVA	MLJ	8
F-13	120 V	1	15.0 A	0.5 kVA	MLJ	10
F-14	120 V	1	15.0 A	0.5 kVA	MLJ	12
F-15	120 V	1	15.0 A	1.1 kVA	MLB2	37
F-16	120 V	1	15.0 A	1.1 kVA	MLB2	21
F-17	120 V	1	15.0 A	1.1 kVA	MLB2	39
F-18	480 V	3	15.0 A	4.0 kVA	MHE2	1,3,5
F-19	120 V	1	15.0 A	0.7 kVA	MLF	10
F-20	480 V	3	15.0 A	2.5 kVA	MHF	1,3,5
F-21	120 V	1	15.0 A	0.7 kVA	MLF	14
F-22	120 V	1	15.0 A	0.5 kVA	MLH	6
F-23	120 V	1	15.0 A	0.5 kVA	MLH	2
F-24	120 V	1	15.0 A	1.1 kVA	MLB1	4
F-25	120 V	1	15.0 A	1.1 kVA	MLE	39
F-26	120 V	1	15.0 A	0.5 kVA	MLE	5
F-27	120 V	1	15.0 A	0.7 kVA	MLB2	17
F-28	120 V	1	15.0 A	0.7 kVA	MLJ	2
F-29	120 V	1	15.0 A	1.1 kVA	MLJ	9
F-30	120 V	1	15.0 A	0.7 kVA	MLJ	11
F-31	120 V	1	15.0 A	0.7 kVA	MLG	8
F-32	120 V	1	15.0 A	0.5 kVA	MLG	1
F-33	120 V	1	15.0 A	0.5 kVA	MLG	17
F-34	120 V	1	15.0 A	0.7 kVA	MLH	7
F-35	120 V	1	15.0 A	1.1 kVA	MLF	4
F-36	120 V	1	15.0 A	0.7 kVA	MLF	2
F-37	120 V	1	15.0 A	0.1 kVA	MLE	47
F-38	120 V	1	15.0 A	0.5 kVA	MLE	13

Mechanical Equipment - ELECTRICAL DATA

Mark	Voltage	Number Of Poles	Maximum Over Current Protection	Apparent Load	Panel	Circuit Number
F-39	120 V	1	15.0 A	0.5 kVA	MLF	12
F-40	120 V	1	15.0 A	0.7 kVA	MLE	9
F-41	120 V	1	20.0 A	1.5 kVA	MLE	3
F-42	120 V	1	15.0 A	0.5 kVA	MLJ	5
F-43	120 V	1	15.0 A	1.1 kVA	MLE	11
F-44	120 V	1	15.0 A	0.5 kVA	MLH	3
F-45	120 V	1	15.0 A	0.1 kVA	MLE	15
F-46	120 V	1	15.0 A	0.1 kVA	MLE	45
IV-1	120 V	1	15.0 A	0.5 kVA	MLE	33
IV-2	120 V	1	15.0 A	0.5 kVA	MLE	35
IV-3	120 V	1	15.0 A	0.5 kVA	MLE	49
MAU-1	480 V	3	15.0 A	8.1 kVA	MHF	20,22,24
MAU-2	480 V	3	15.0 A	5.2 kVA	MHF	26,28,30
MAU-3	480 V	3	15.0 A	5.2 kVA	MHE2	2,4,6
OZ-1	208 V	3	30.0 A	7.2 kVA	MLE	23,25,27
P-1	480 V	3	100.0 A	43.2 kVA	MHE1	1,3,5
P-2	480 V	3	100.0 A	43.2 kVA	MHE1	7,9,11
P-3	480 V	3	40.0 A	17.4 kVA	MHE1	25,27,29
P-4	480 V	3	40.0 A	17.4 kVA	MHE1	19,21,23
P-5	480 V	3	40.0 A	17.4 kVA	MHE1	13,15,17
P-6	480 V	3	30.0 A	11.6 kVA	EHE	1,3,5
P-7	480 V	3	30.0 A	11.6 kVA	EHE	7,9,11
RD-1	120 V	1	20.0 A	0.5 kVA	MLE	19
RTU-01	480 V	3	120.0 A	52.1 kVA	MHH	30,32,34
RTU-02	480 V	3	40.0 A	19.3 kVA	MHH	18,20,22
RTU-03	480 V	3	20.0 A	9.6 kVA	MHH	12,14,16
RTU-04	480 V	3	90.0 A	38.8 kVA	MHJ	10,12,14
RTU-05	480 V	3	70.0 A	30.0 kVA	MHB2	2,4,6
RTU-06	480 V	3	50.0 A	26.6 kVA	MHF	2,4,6
RTU-07	480 V	3	20.0 A	9.6 kVA	MHG	10,12,14
RTU-08	480 V	3	100.0 A	43.8 kVA	MHG	15,17,19
RTU-09	480 V	3	40.0 A	19.3 kVA	MHG	9,11,13
RTU-10	480 V	3	60.0 A	28.0 kVA	MHF	8,10,12
RTU-11	480 V	3	20.0 A	9.3 kVA	MHF	14,16,18
RTU-12	480 V	3	100.0 A	44.6 kVA	MHE1	20,22,24
RTU-13	480 V	3	75.0 A	35.0 kVA	MHE1	26,28,30
RTU-14	480 V	3	60.0 A	27.4 kVA	MHE1	14,16,18
RTU-15	480 V	3	120.0 A	52.1 kVA	MHH	24,26,28
RTU-16	480 V	3	110.0 A	46.3 kVA	MHJ	4,6,8
RTU-17	480 V	3	20.0 A	10.7 kVA	MHH	6,8,10
RTU-18	480 V	3	80.0 A	61.6 kVA	FH	5,7,9
TU01-01	277 V	1	15.0 A	0.7 kVA	MHA	33
TU01-02	277 V	1	15.0 A	0.7 kVA	MHA	27
TU01-03	277 V	1	15.0 A	0.7 kVA	MHA	25
TU01-04	277 V	1	15.0 A	0.7 kVA	MHA	23
TU01-05	277 V	1	15.0 A	0.7 kVA	MHA	15
TU01-06	277 V	1	15.0 A	0.7 kVA	MHA	11
TU01-07	277 V	1	15.0 A	0.7 kVA	MHA	9
TU01-08	120 V	1	15.0 A	0.3 kVA	MLA	1
TU01-09	277 V	1	15.0 A	0.0 kVA	MHA	1
TU01-10	120 V	1	15.0 A	0.3 kVA	MLA	5
TU01-11	120 V	1	15.0 A	0.3 kVA	MLA	7
TU01-12	277 V	1	15.0 A	0.7 kVA	MHA	7
TU01-13	277 V	1	15.0 A	0.7 kVA	MHA	13
TU01-14	277 V	1	15.0 A	0.7 kVA	MHA	17
TU01-15	277 V	1	15.0 A	0.7 kVA	MHA	19
TU01-16	277 V	1	15.0 A	0.7 kVA	MHA	21
TU01-17	277 V	1	15.0 A	0.7 kVA	MHA	29
TU01-18	277 V	1	15.0 A	0.7 kVA	MHA	31
TU01-19	120 V	1	15.0 A	0.3 kVA	MLA	9
TU01-20	277 V	1	15.0 A	0.7 kVA	MHA	35
TU01-21	277 V	1	15.0 A	0.7 kVA	MHA	37
TU01-22	277 V	1	15.0 A	0.7 kVA	MHA	39
TU01-23	277 V	1	15.0 A	0.7 kVA	MHA	2
TU01-24	120 V	1	15.0 A	0.3 kVA	MLA	17
TU01-25	120 V	1	15.0 A	0.3 kVA	MLA	15
TU02-01A	277 V	1	15.0 A	0.7 kVA	MHJ	18
TU02-01B	277 V	1	15.0 A	0.7 kVA	MHA	4

Mechanical Equipment - ELECTRICAL DATA

Mark	Voltage	Number Of Poles	Maximum Over Current Protection	Apparent Load	Panel	Circuit Number
TU02-02	277 V	1	15.0 A	0.7 kVA	MHJ	20
TU02-03	120 V	1	15.0 A	0.3 kVA	MLA	11
TU02-04	277 V	1	15.0 A	0.7 kVA	MHJ	22
TU02-05	277 V	1	15.0 A	0.7 kVA	MHJ	24
TU04-01	277 V	1	15.0 A	0.7 kVA	MHB1	21
TU04-02	120 V	1	15.0 A	0.3 kVA	MLB1	13
TU04-03	277 V	1	15.0 A	0.7 kVA	MHB1	19
TU04-04	277 V	1	15.0 A	0.7 kVA	MHB1	15
TU04-05	277 V	1	15.0 A	0.7 kVA	MHB1	13
TU04-06	277 V	1	15.0 A	0.7 kVA	MHB1	11
TU04-07	277 V	1	15.0 A	0.7 kVA	MHB1	9
TU04-08	277 V	1	15.0 A	0.7 kVA	MHB1	7
TU04-09	277 V	1	15.0 A	0.7 kVA	MHB1	5
TU04-10	277 V	1	15.0 A	0.7 kVA	MHB1	3
TU04-11	277 V	1	15.0 A	0.7 kVA	MHA	3
TU04-12	277 V	1	15.0 A	0.7 kVA	MHA	5
TU04-13	120 V	1	15.0 A	0.3 kVA	MLA	13
TU04-14	120 V	1	15.0 A	0.3 kVA	MLA	3
TU04-15	120 V	1	15.0 A	0.3 kVA	MLB1	1
TU04-16	120 V	1	15.0 A	0.3 kVA	MLB1	3
TU04-17	277 V	1	15.0 A	0.7 kVA	MHB1	1
TU04-18	120 V	1	15.0 A	0.3 kVA	MLB1	5
TU04-19	120 V	1	15.0 A	0.3 kVA	MLB1	7
TU04-20	120 V	1	15.0 A	0.3 kVA	MLB1	9
TU04-21	120 V	1	15.0 A	0.3 kVA	MLB1	11
TU04-22	277 V	1	15.0 A	0.7 kVA	MHB1	17
TU04-23	120 V	1	15.0 A	0.3 kVA	MLB1	19
TU04-24	120 V	1	15.0 A	0.3 kVA	MLB1	17
TU05-01	277 V	1	15.0 A	0.7 kVA	MHB2	1
TU05-02	277 V	1	15.0 A	0.2 kVA	MHB2	3
TU05-03	277 V	1	15.0 A	0.2 kVA	MHB2	5
TU05-04	277 V	1	15.0 A	0.7 kVA	MHB2	7
TU05-05	277 V	1	15.0 A	0.7 kVA	MHB2	13
TU05-06	120 V	1	15.0 A	0.3 kVA	MLB2	29
TU05-07	120 V	1	15.0 A	0.3 kVA	MLB2	31
TU05-08	120 V	1	15.0 A	0.3 kVA	MLB2	33
TU05-09	120 V	1	15.0 A	0.3 kVA	MLB2	35
TU05-10	277 V	1	15.0 A	0.2 kVA	MHB2	9
TU05-11	120 V	1	15.0 A	0.3 kVA	MLB2	1
TU05-12	277 V	1	15.0 A	0.7 kVA	MHB2	11
TU05-13	120 V	1	15.0 A	0.3 kVA	MLB2	5
TU05-14	277 V	1	15.0 A	0.2 kVA	MHB2	17
TU05-15	120 V	1	15.0 A	0.3 kVA	MLB2	3
TU05-16	277 V	1	15.0 A	0.7 kVA	MHB2	15
TU05-17	120 V	1	15.0 A	0.3 kVA	MLB2	13
TU05-18	120 V	1	15.0 A	0.3 kVA	MLB2	15
TU05-19	120 V	1	15.0 A	0.3 kVA	MLB2	11
TU05-20	120 V	1	15.0 A	0.3 kVA	MLB2	7
TU05-21	120 V	1	15.0 A	0.3 kVA	MLB2	9
TU05-22	277 V	1	15.0 A	0.2 kVA	MHB2	19
TU05-23	277 V	1	15.0 A	0.7 kVA	MHB2	21
TU07-01	277 V	1	15.0 A	0.7 kVA	MHG	8
TU07-02	120 V	1	15.0 A	0.3 kVA	MLG	16
TU07-03	120 V	1	15.0 A	0.3 kVA	MLG	18
TU07-04	120 V	1	15.0 A	0.3 kVA	MLG	14
TU07-05	120 V	1	15.0 A	0.3 kVA	MLG	12
TU07-06	120 V	1	15.0 A	0.3 kVA	MLG	10
TU07-07	277 V	1	15.0 A	0.7 kVA	MHG	6
TU07-08	277 V	1	15.0 A	0.7 kVA	MHG	4
TU07-09	120 V	1	15.0 A	0.3 kVA	MLG	13
TU07-10	277 V	1	15.0 A	0.7 kVA	MHG	2
TU09-01	277 V	1	15.0 A	0.7 kVA	MHG	1
TU09-02	277 V	1	15.0 A	0.7 kVA	MHG	3
TU09-03	120 V	1	15.0 A	0.3 kVA	MLG	6
TU09-04	277 V	1	15.0 A	0.7 kVA	MHG	5
TU09-05	277 V	1	15.0 A	0.7 kVA	MHG	7
TU09-06	120 V	1	15.0 A	0.3 kVA	MLG	11
TU14-01	120 V	1	15.0 A	0.3 kVA	MLE	37

Mechanical Equipment - ELECTRICAL DATA

Mark	Voltage	Number Of Poles	Maximum Over Current Protection	Apparent Load	Panel	Circuit Number
TU14-02	120 V	1	15.0 A	0.3 kVA	MLE	43
TU14-03	277 V	1	15.0 A	0.7 kVA	MHE2	11
TU14-04	277 V	1	15.0 A	0.7 kVA	MHE2	9
TU14-05	277 V	1	15.0 A	0.7 kVA	MHE2	7
TU14-06	277 V	1	15.0 A	0.7 kVA	MHE1	12
TU14-07	277 V	1	15.0 A	0.7 kVA	MHE1	8
TU14-08	277 V	1	15.0 A	0.7 kVA	MHE1	10
TU14-09	277 V	1	15.0 A	0.7 kVA	MHE1	32
TU14-10	120 V	1	15.0 A	0.3 kVA	MLE	41
TU15-01	277 V	1	15.0 A	1.2 kVA	MHH	29
TU15-02	277 V	1	15.0 A	0.7 kVA	MHH	4
TU15-03	277 V	1	15.0 A	1.2 kVA	MHH	19
TU15-04	277 V	1	15.0 A	1.5 kVA	MHH	13
TU15-05	120 V	1	15.0 A	0.3 kVA	MLA	27
TU15-06	277 V	1	15.0 A	0.7 kVA	MHH	1
TU15-07	120 V	1	15.0 A	0.3 kVA	MLB1	22
TU15-08	277 V	1	15.0 A	0.7 kVA	MHH	5
TU15-09	277 V	1	15.0 A	0.7 kVA	MHH	3
TU15-10	120 V	1	15.0 A	0.3 kVA	MLA	25
TU15-11	120 V	1	15.0 A	0.3 kVA	MLA	23
TU15-12	277 V	1	15.0 A	1.2 kVA	MHH	11
TU15-13	277 V	1	15.0 A	1.2 kVA	MHH	15
TU15-14	277 V	1	15.0 A	1.2 kVA	MHH	21
TU15-15	277 V	1	15.0 A	1.5 kVA	MHH	23
TU15-16	277 V	1	15.0 A	0.7 kVA	MHH	25
TU15-17	277 V	1	15.0 A	0.7 kVA	MHH	31
TU15-18	277 V	1	15.0 A	0.7 kVA	MHH	33
TU15-19	277 V	1	15.0 A	0.7 kVA	MHH	35
TU15-20	277 V	1	15.0 A	0.7 kVA	MHH	27
TU15-21	277 V	1	15.0 A	0.7 kVA	MHH	17
TU16-01	277 V	1	15.0 A	0.7 kVA	MHJ	2
TU16-02	277 V	1	15.0 A	0.7 kVA	MHJ	41
TU16-03	277 V	1	15.0 A	0.7 kVA	MHJ	35
TU16-04	277 V	1	15.0 A	0.7 kVA	MHJ	33
TU16-05	277 V	1	15.0 A	0.7 kVA	MHJ	27
TU16-06	277 V	1	15.0 A	0.7 kVA	MHJ	19
TU16-07	277 V	1	15.0 A	0.7 kVA	MHJ	15
TU16-08	277 V	1	15.0 A	0.7 kVA	MHJ	11
TU16-09	277 V	1	15.0 A	0.7 kVA	MHJ	7
TU16-10	120 V	1	15.0 A	0.3 kVA	MLB1	18
TU16-11	277 V	1	15.0 A	0.7 kVA	MHH	9
TU16-12	277 V	1	15.0 A	0.7 kVA	MHH	7
TU16-13	120 V	1	15.0 A	0.3 kVA	MLB1	20
TU16-14	277 V	1	15.0 A	0.7 kVA	MHJ	5
TU16-15	277 V	1	15.0 A	0.7 kVA	MHJ	3
TU16-16	120 V	1	15.0 A	0.3 kVA	MLB1	14
TU16-17	120 V	1	15.0 A	0.3 kVA	MLB1	15
TU16-18	277 V	1	15.0 A	0.7 kVA	MHJ	9
TU16-19	277 V	1	15.0 A	0.7 kVA	MHJ	13
TU16-20	277 V	1	15.0 A	0.7 kVA	MHJ	17
TU16-21	277 V	1	15.0 A	0.7 kVA	MHJ	23
TU16-22	277 V	1	15.0 A	0.7 kVA	MHJ	25
TU16-23	277 V	1	15.0 A	0.7 kVA	MHJ	31
TU16-24	277 V	1	15.0 A	0.7 kVA	MHJ	37
TU16-25	277 V	1	15.0 A	0.7 kVA	MHJ	29
TU16-26	277 V	1	15.0 A	0.7 kVA	MHJ	39
TU16-27	277 V	1	15.0 A	0.7 kVA	MHJ	21
TU16-28	277 V	1	15.0 A	0.7 kVA	MHJ	1
TU16-29	277 V	1	15.0 A	0.7 kVA	MHJ	16
UH-1	120 V	1	15.0 A	0.1 kVA	LE1	68
UH-2	120 V	1	15.0 A	0.1 kVA	LE1	66
UH-3	120 V	1	15.0 A	0.1 kVA	ELE	13
UH-4	120 V	1	15.0 A	0.1 kVA	ELE	25
UH-5	120 V	1	15.0 A	0.1 kVA	ELE	23
UH-6	120 V	1	15.0 A	0.1 kVA	ELE	29
UH-7	120 V	1	15.0 A	0.1 kVA	ELE	27

ADD3

MOSELEYARCHITECTS
3200 NORFOLK STREET, RICHMOND, VA 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

COMMONWEALTH OF VIRGINIA
HAROLD A. LANNA
Lic. No. 13231
2/5/14
PROFESSIONAL ENGINEER

HERITAGE HIGH SCHOOL

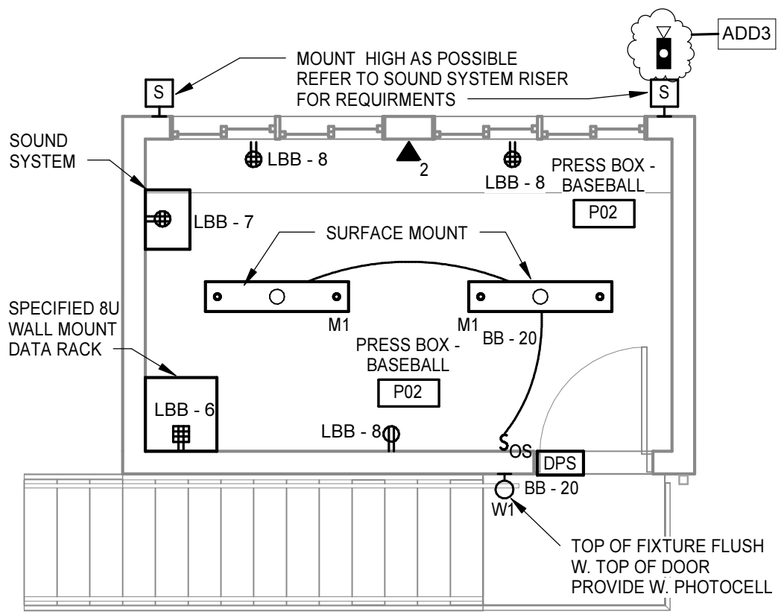
SDE NO.: 115-13-00-100
LYNCHBURG CITY SCHOOLS
3020 WARDS FERRY ROAD, LYNCHBURG, VA 24502

PROJECT NO: 520910	DATE: FEBRUARY 5, 2014
REVISIONS	
DATE	DESCRIPTION
2/28/14	ADD3

MECH/ELEC COORD SCHED

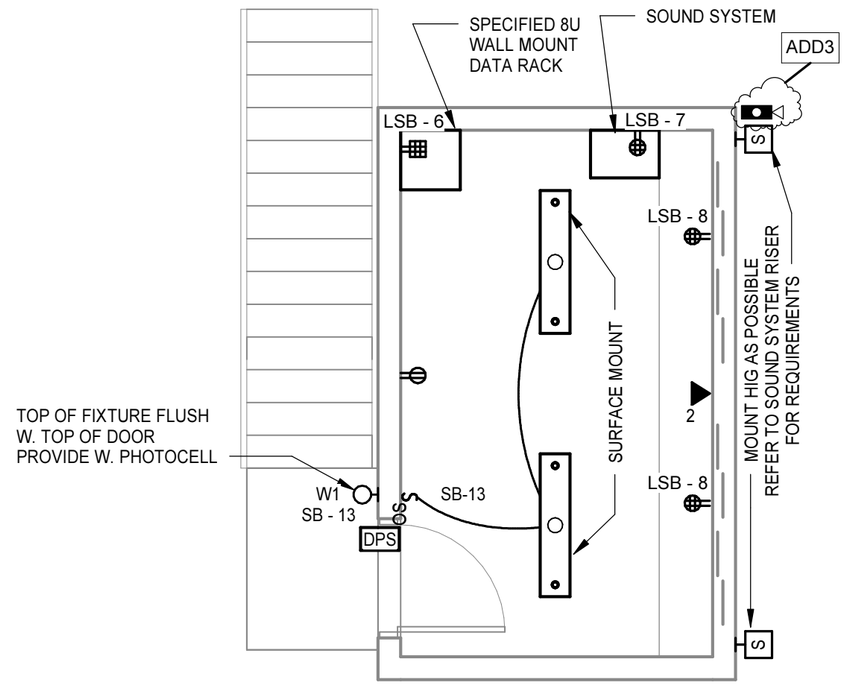
E5.11

2/24/2014 1:46:32 PM



AD3-ELECTRICAL - BASEBALL PRESSBOX - UPPER LEVEL

1/4" = 1'-0"



AD3-ELECTRICAL - SOFTBALL PRESSBOX -UPPER LEVEL

1/4" = 1'-0"

0' 2' 4' 8' 16'

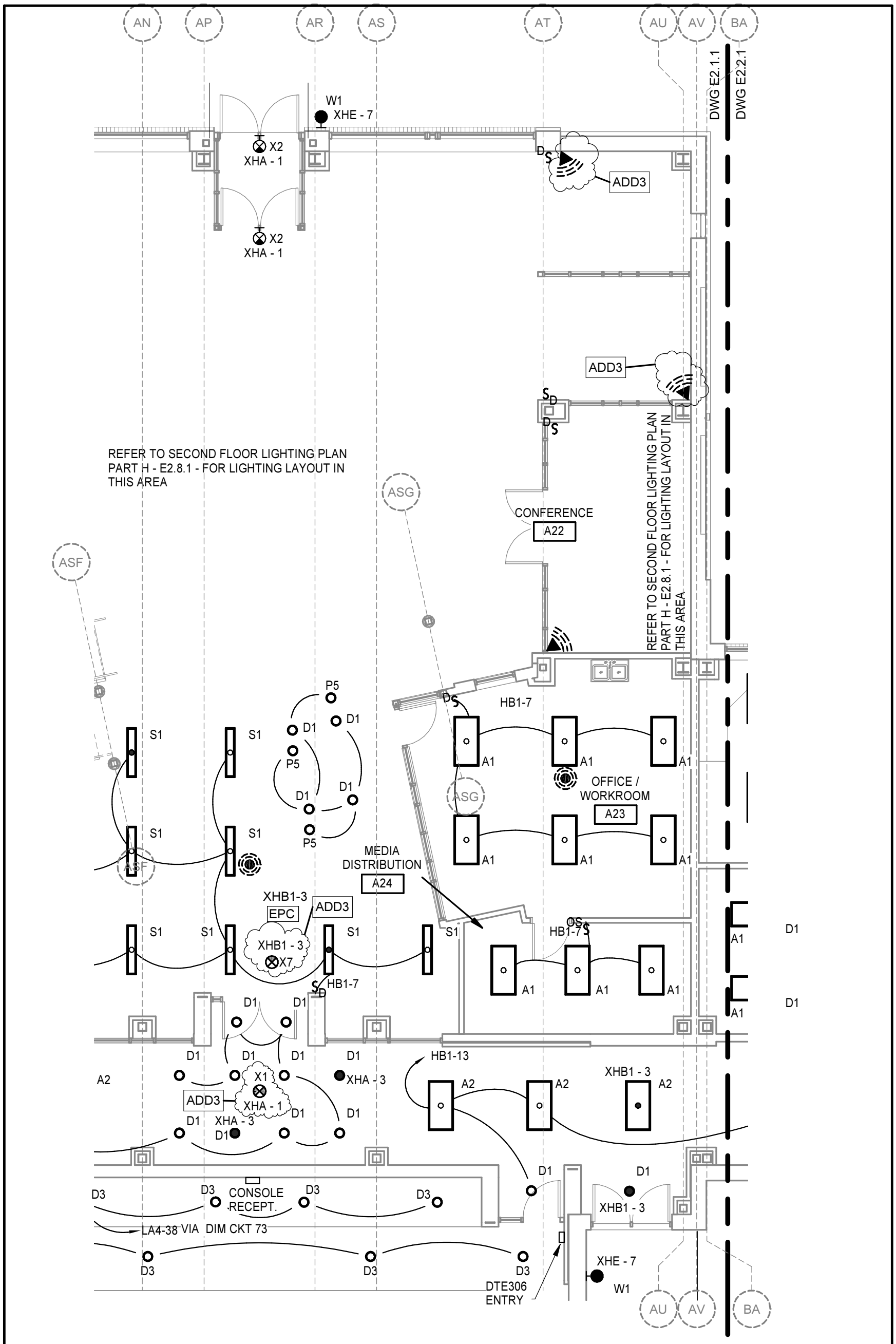
2/24/2014 2:12:12 PM

MOSELEYARCHITECTS

3200 NORFOLK STREET, RICHMOND, VIRGINIA, 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

DRAWING TITLE:	CONTRACT DWG NO.:	PROJECT:	DRAWN BY:	ATTACHMENT TO:	SUPPLEMENTAL DWG. NO:
REVISIONS TO BASEBALL AND SOFTBALL UPPER LEVEL PRESSBOXES	E1.6	HERITAGE HIGH SCHOOL 3020 WARDS FERRY ROAD, LYNCHBURG, VA 24502	JAT	AD3	AD3-E1.6-1
			DATE: 02/28/14	PROJECT NO: 520910	

2/24/2014 2:14:13 PM



AD3 FIRST FLOOR PLAN - PART A - LIGHTING

1/8" = 1'-0"

0' 2' 4' 8' 16'

MOSELEYARCHITECTS
3200 NORFOLK STREET, RICHMOND, VIRGINIA, 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

DRAWING TITLE:
REVISION TO PART A LIGHTING

CONTRACT DWG NO.:
E2.1.1

PROJECT:
HERITAGE HIGH SCHOOL
3020 WARDS FERRY ROAD, LYNCHBURG, VA 24502

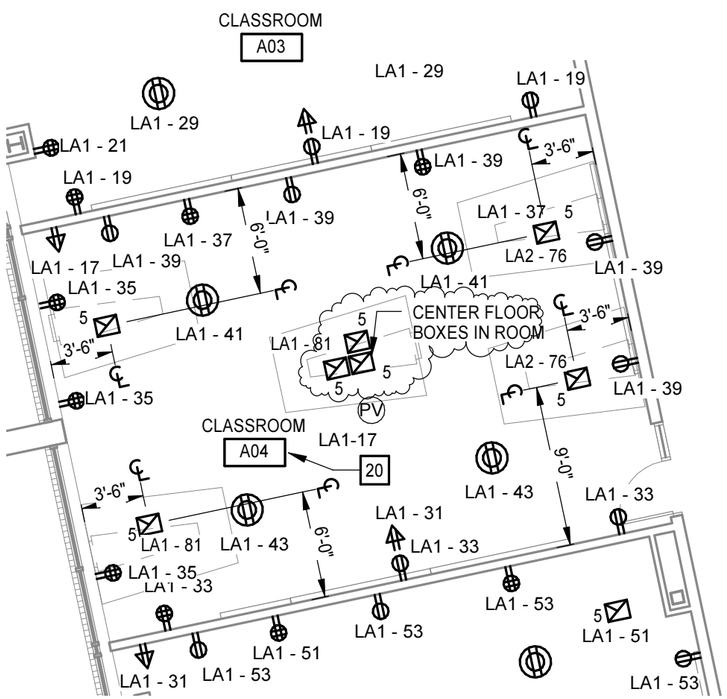
DRAWN BY: **JAT**

DATE: **02/28/14**

ATTACHMENT TO: **AD3**

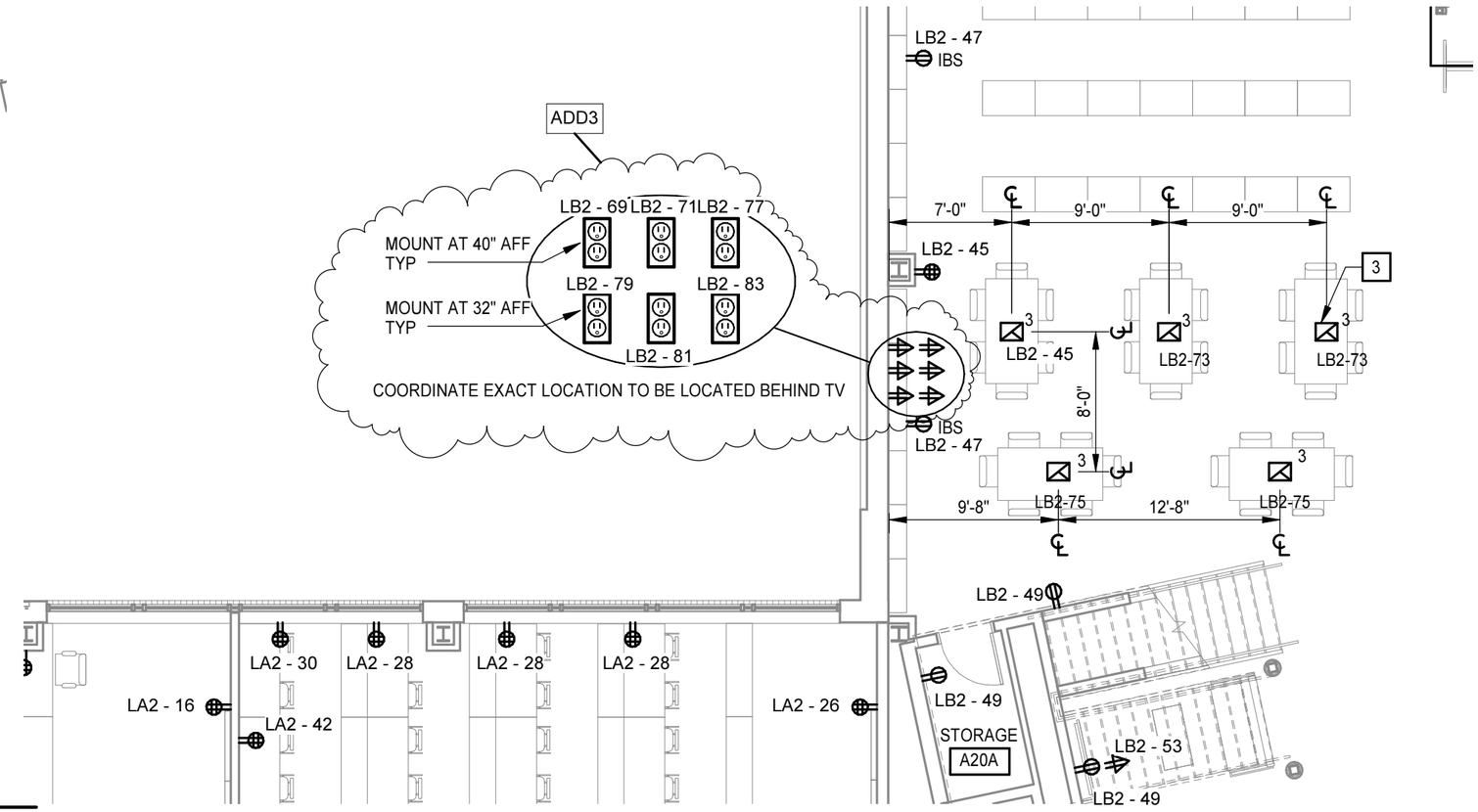
PROJECT NO: **520910**

SUPPLEMENTAL DWG. NO:
AD3-E2.1.1-1



AD3-FIRST FLOOR PLAN - PART A - POWER 1

1/8" = 1'-0"



AD3-FIRST FLOOR PLAN - PART A - POWER 2

1/8" = 1'-0"

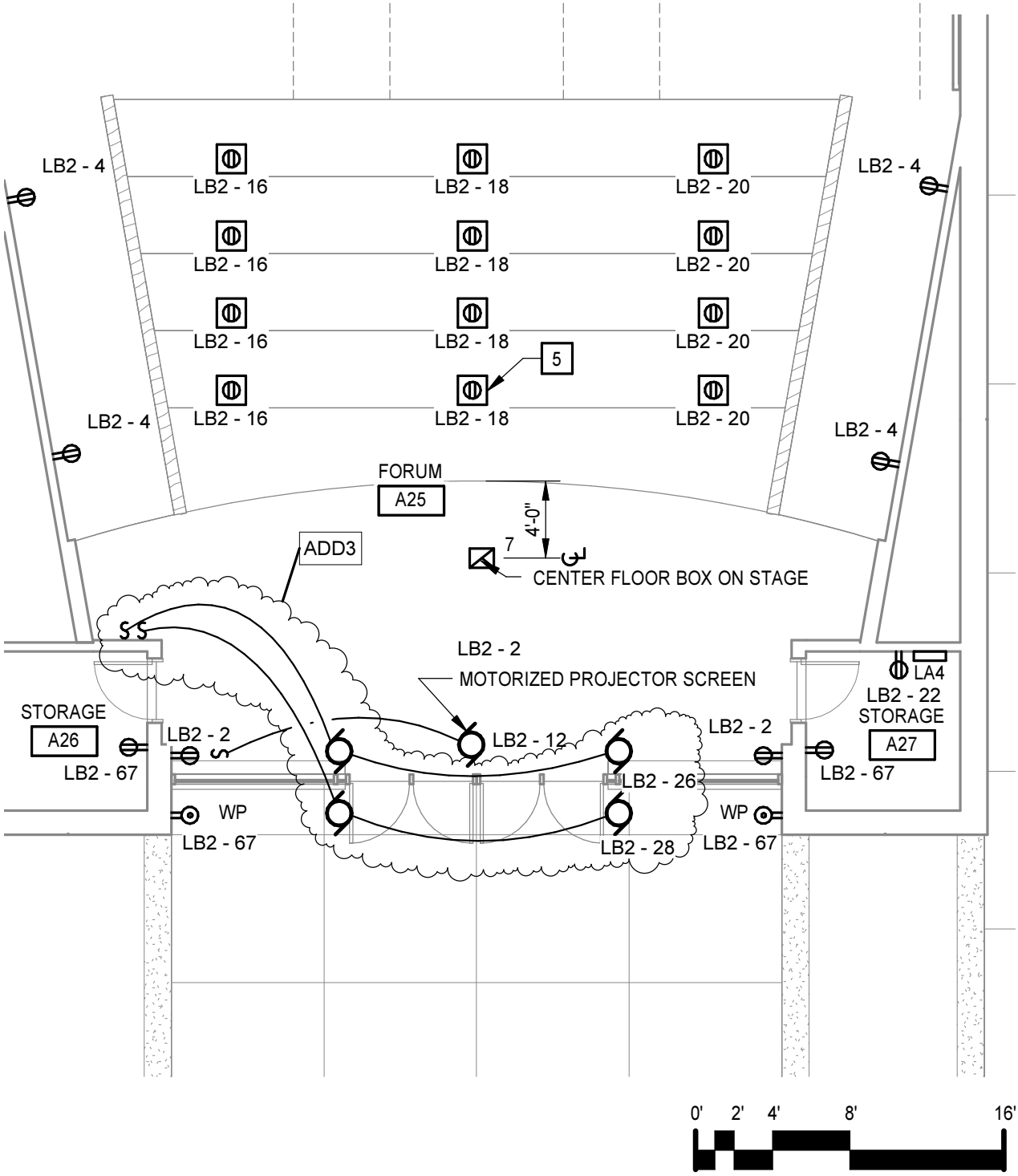
0' 1' 2' 4' 8'

2/24/2014 2:31:51 PM

MOSELEYARCHITECTS

3200 NORFOLK STREET, RICHMOND, VIRGINIA, 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

DRAWING TITLE:	CONTRACT DWG NO.:	PROJECT:	DRAWN BY:	ATTACHMENT TO:	SUPPLEMENTAL DWG. NO:
REVISIONS TO PART A POWER	E2.1.2	HERITAGE HIGH SCHOOL 3020 WARDS FERRY ROAD, LYNCHBURG, VA 24502	JAT	AD3	AD3-E2.1.2-1
			DATE: 02/28/14	PROJECT NO: 520910	



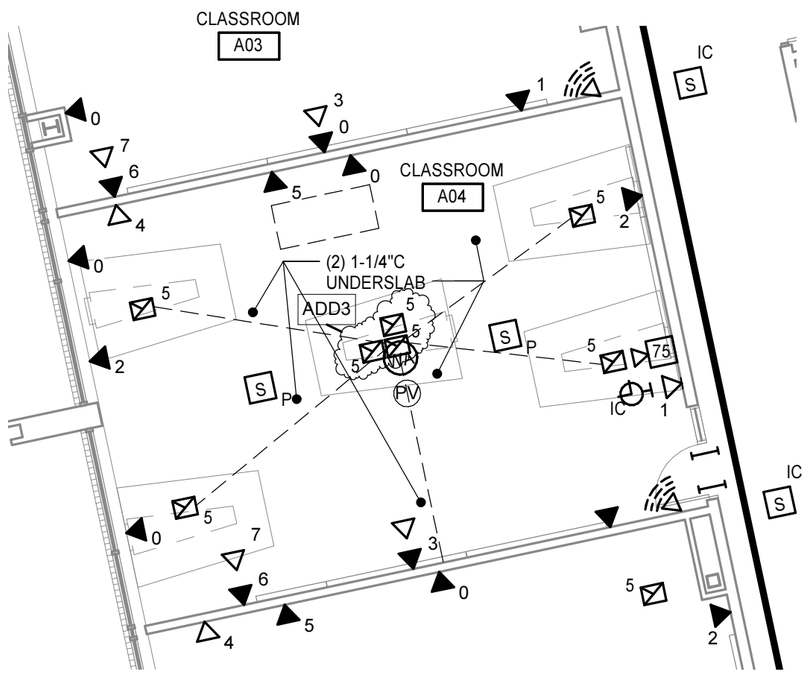
DRAWING TITLE:	CONTRACT DWG NO.:	PROJECT:
REVISION TO PART B POWER	**E2.1.2**	**HERITAGE HIGH SCHOOL** **3020 WARDS FERRY ROAD, LYNCHBURG, VA 24502**

MOSELEYARCHITECTS

3200 NORFOLK STREET, RICHMOND, VIRGINIA, 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

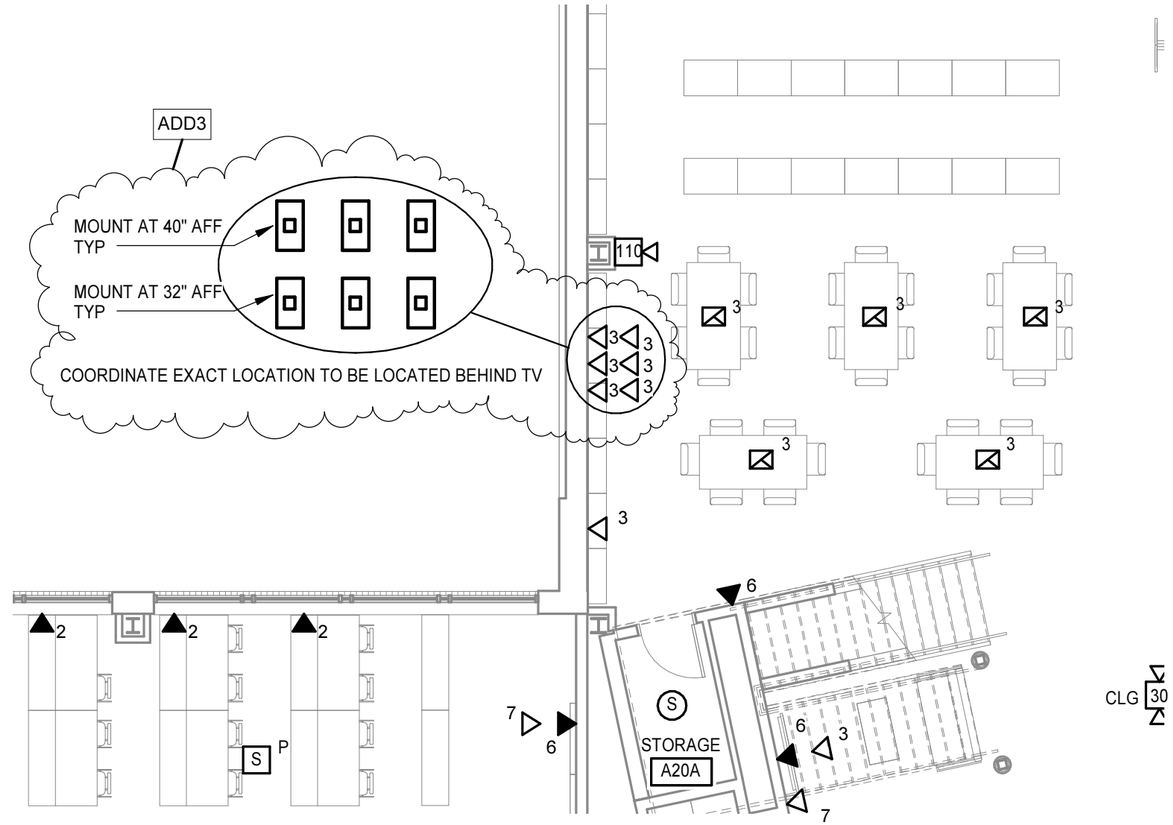
DRAWN BY:	ATTACHMENT TO:	SUPPLEMENTAL DWG. NO:
JAT	**AD3**	**AD3-E2.1.2-2**
DATE: **02/28/14**	PROJECT NO: **520910**	

2/24/2014 2:04:03 PM



AD3-FIRST FLOOR PLAN - PART A - COMM 1

1/8" = 1'-0"



AD3-FIRST FLOOR PLAN - PART A - COMM 2

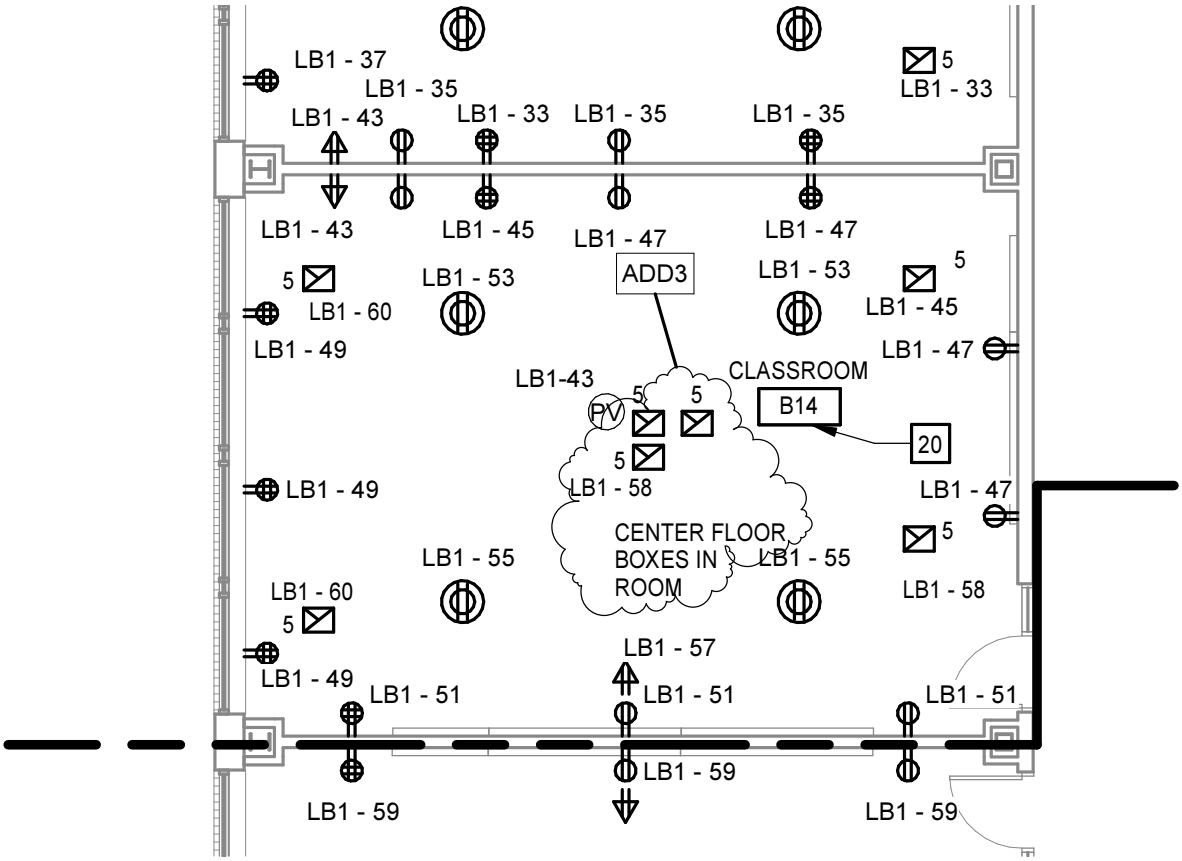
1/8" = 1'-0"

0' 2' 4' 8' 16'

2/27/2014 9:57:22 AM

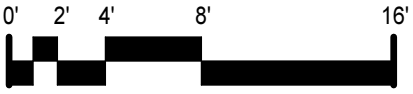
MOSELEYARCHITECTS
3200 NORFOLK STREET, RICHMOND, VIRGINIA, 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

DRAWING TITLE:	CONTRACT DWG NO.:	PROJECT:	DRAWN BY:	ATTACHMENT TO:	SUPPLEMENTAL DWG. NO:
REVISION TO PART A COMM	E2.1.3	HERITAGE HIGH SCHOOL 3020 WARDS FERRY ROAD, LYNCHBURG, VA 24502	JAT	AD3	AD3-E2.1.3-1
			DATE: 02/28/14	PROJECT NO: 520910	



AD3-FIRST FLOOR PLAN - PART B - POWER

1/8" = 1'-0"



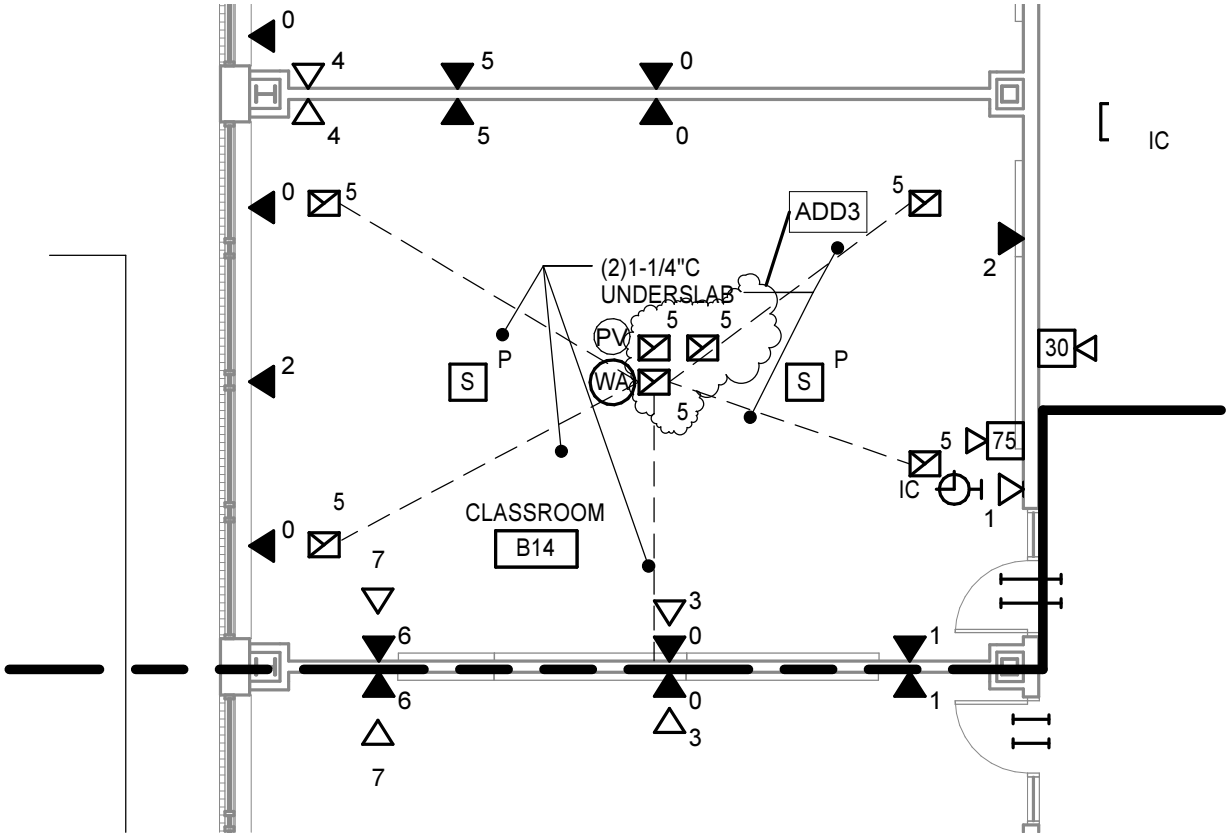
DRAWING TITLE:	CONTRACT DWG NO.:	PROJECT:
REVISIONS TO PART B POWER	**E2.2.2**	**HERITAGE HIGH SCHOOL** **3020 WARDS FERRY ROAD, LYNCHBURG, VA 24502**

MOSELEYARCHITECTS

3200 NORFOLK STREET, RICHMOND, VIRGINIA, 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

DRAWN BY:	ATTACHMENT TO:	SUPPLEMENTAL DWG. NO:
JAT	**AD3**	**AD3-E2.2.2-1**
DATE: **02/28/14**	PROJECT NO: **520910**	

2/27/2014 10:31:05 AM



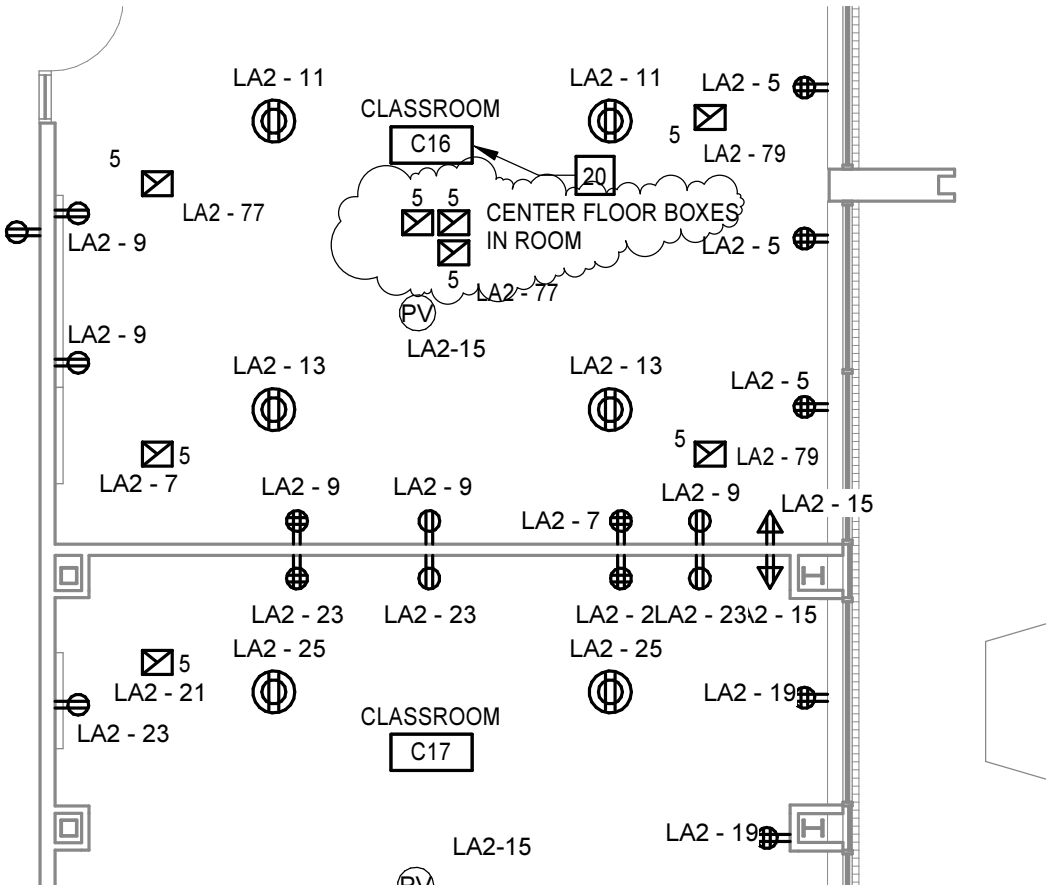
DRAWING TITLE:	CONTRACT DWG NO.:	PROJECT:
REVISION TO PART B COMM	**E2.2.3**	**HERITAGE HIGH SCHOOL** **3020 WARDS FERRY ROAD, LYNCHBURG, VA 24502**

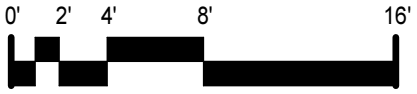
MOSELEYARCHITECTS

3200 NORFOLK STREET, RICHMOND, VIRGINIA, 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

DRAWN BY:	ATTACHMENT TO:	SUPPLEMENTAL DWG. NO:
JAT	**AD3**	**AD3-E2.2.3-1**
DATE: **02/28/14**	PROJECT NO: **520910**	

2/27/2014 10:32:59 AM





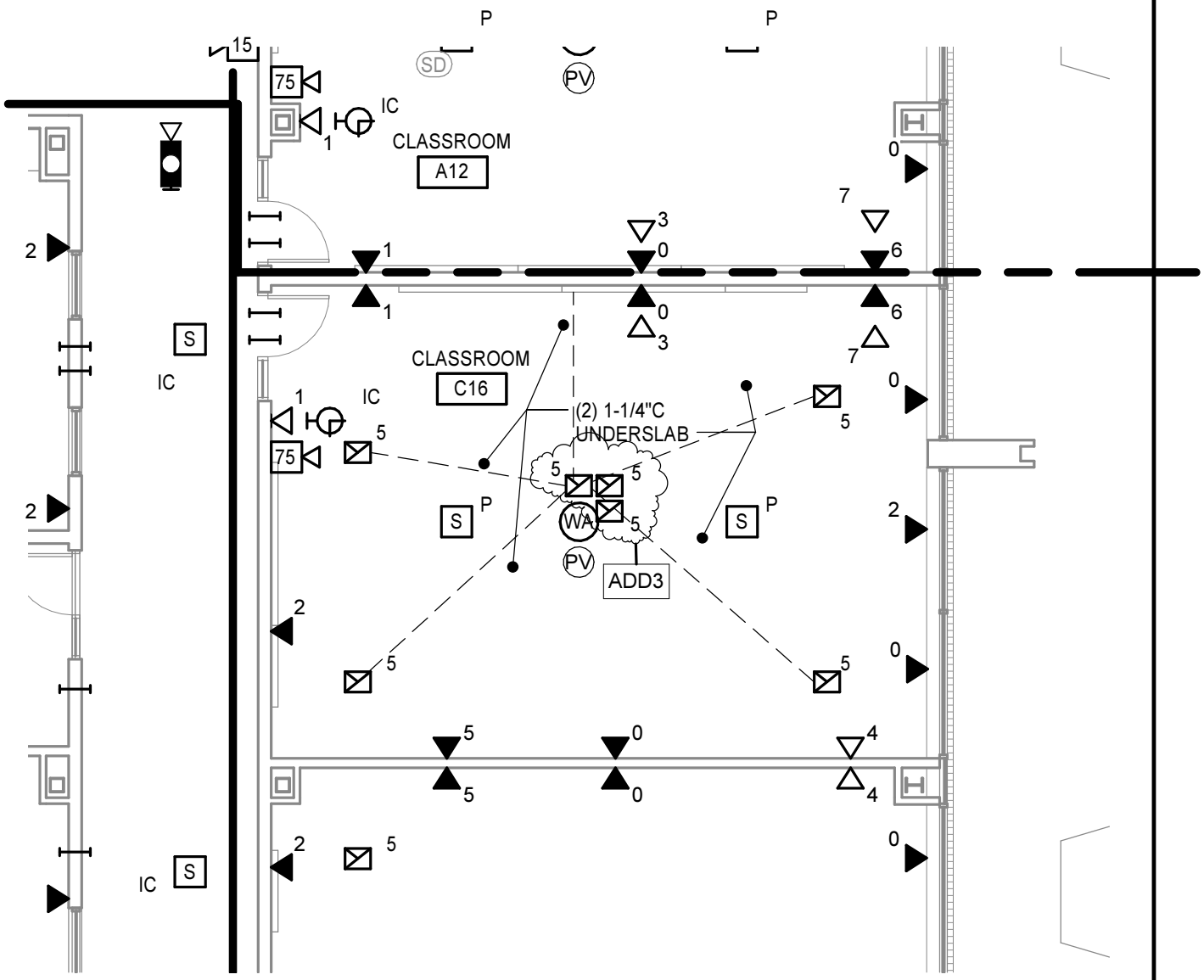
DRAWING TITLE:	CONTRACT DWG NO.:	PROJECT:
REVISIONS TO PART C POWER	**E2.3.2**	**HERITAGE HIGH SCHOOL** **3020 WARDS FERRY ROAD, LYNCHBURG, VA 24502**

MOSELEYARCHITECTS

3200 NORFOLK STREET, RICHMOND, VIRGINIA, 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

DRAWN BY:	ATTACHMENT TO:	SUPPLEMENTAL DWG. NO:
JAT	**AD3**	**AD3-E2.3.2-1**
DATE: **02/28/14**	PROJECT NO: **520910**	

2/27/2014 10:27:43 AM



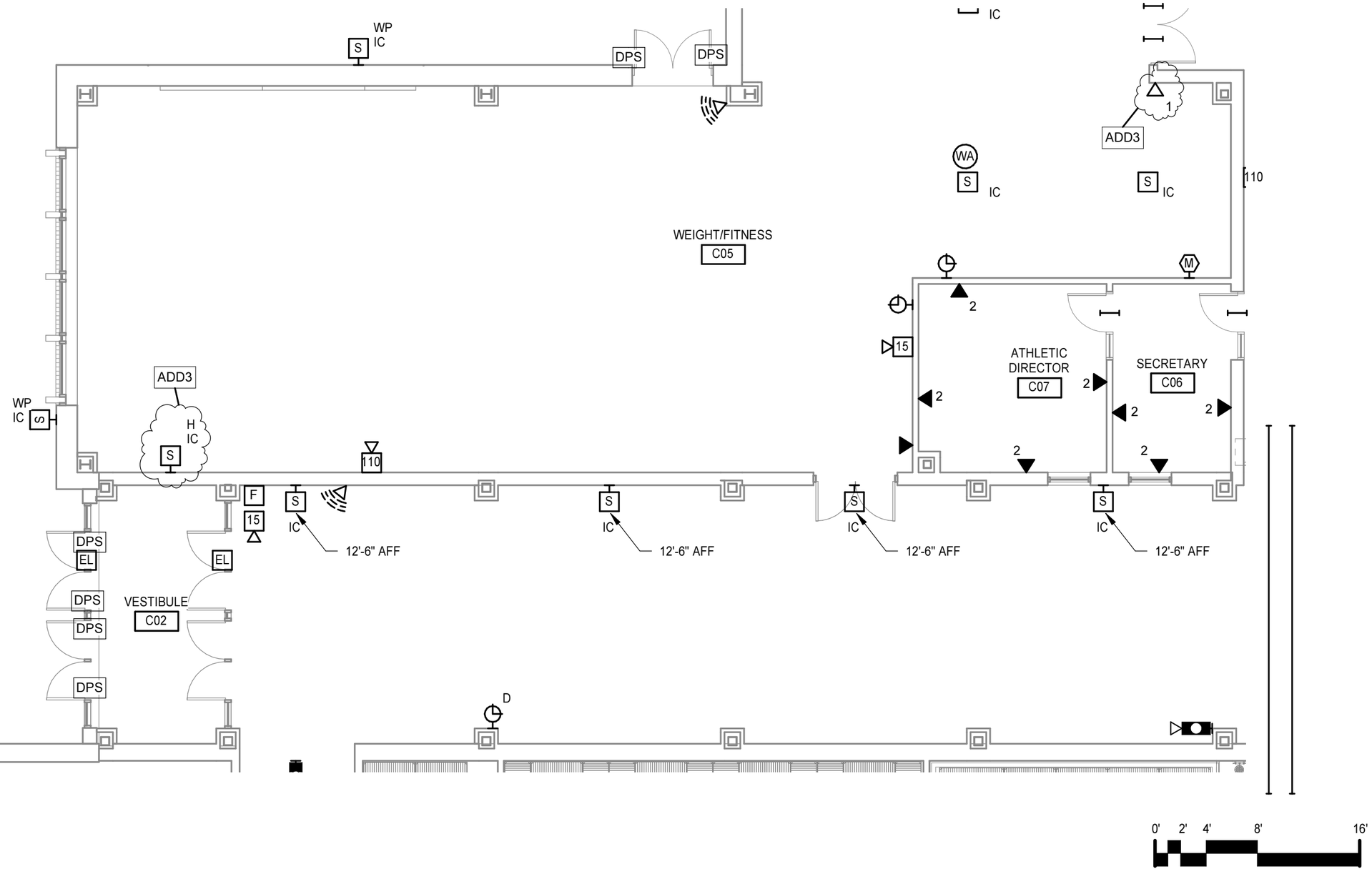
DRAWING TITLE:	CONTRACT DWG NO.:	PROJECT:
REVISIONS TO PART C COMM	**E2.3.3**	**HERITAGE HIGH SCHOOL** **3020 WARDS FERRY ROAD, LYNCHBURG, VA 24502**

MOSELEYARCHITECTS

3200 NORFOLK STREET, RICHMOND, VIRGINIA, 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

DRAWN BY:	ATTACHMENT TO:	SUPPLEMENTAL DWG. NO:
JAT	**AD3**	**AD3-E2.3.3-1**
DATE: **02/27/14**	PROJECT NO: **520910**	

2/27/2014 11:30:26 AM

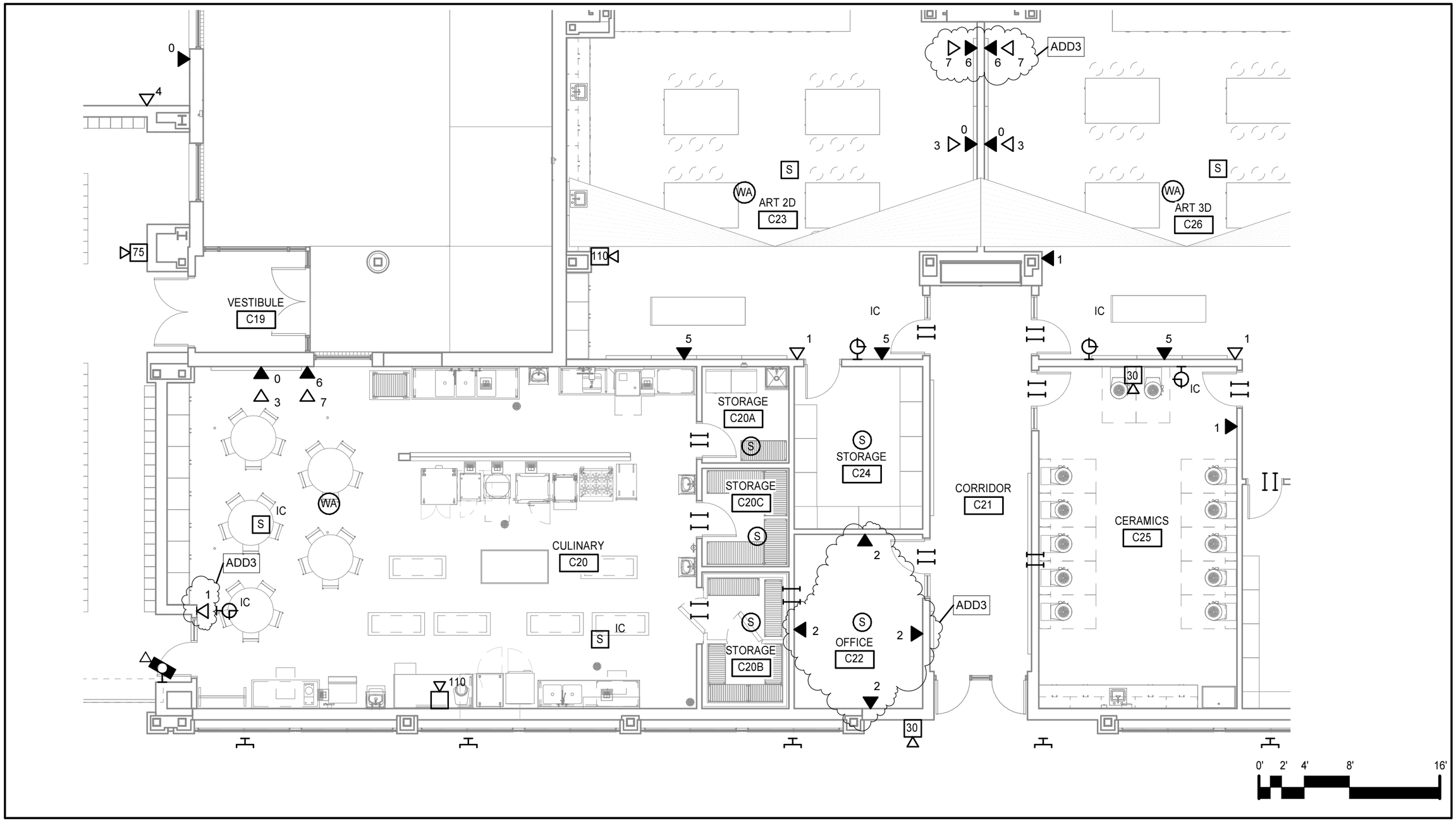


2/24/2014 2:19:52 PM

MOSELEYARCHITECTS

3200 NORFOLK STREET, RICHMOND, VIRGINIA, 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

DRAWING TITLE:	CONTRACT DWG NO.:	PROJECT:	DRAWN BY:	ATTACHMENT TO:	SUPPLEMENTAL DWG. NO:
REVISIONS TO PART C COMM	**E2.2.3**	**HERITAGE HIGH SCHOOL** **3020 WARDS FERRY ROAD, LYNCHBURG, VA 24502**	**JAT**	**AD3**	**AD3 -E2.3.3-2**
			DATE: **02/28/14**	PROJECT NO: **520910**	

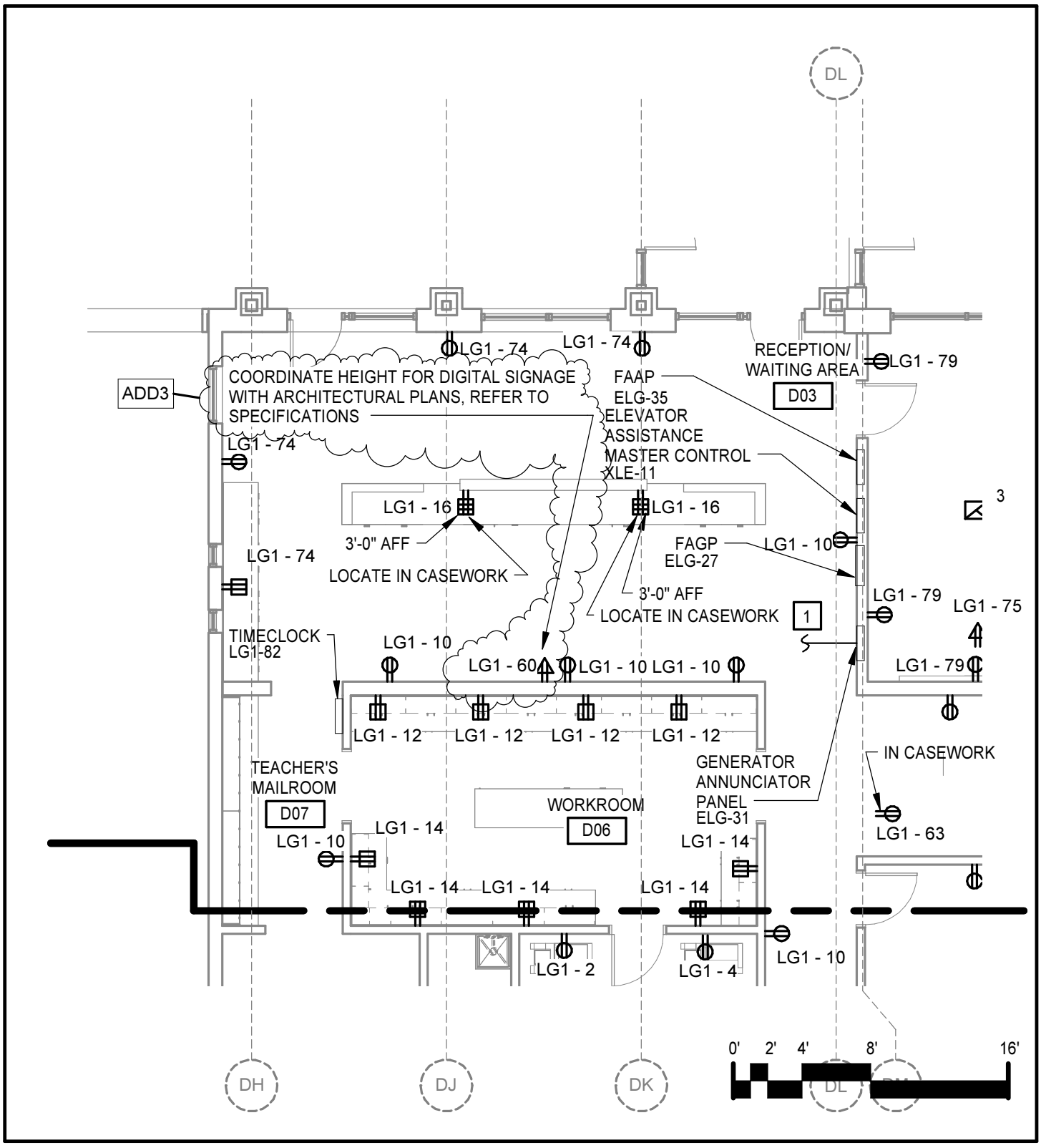


2/24/2014 2:20:10 PM

MOSELEYARCHITECTS

3200 NORFOLK STREET, RICHMOND, VIRGINIA, 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

DRAWING TITLE:	CONTRACT DWG NO.:	PROJECT:	DRAWN BY:	ATTACHMENT TO:	SUPPLEMENTAL DWG. NO:
REVISIONS TO PART C COMM	E2.2.3	HERITAGE HIGH SCHOOL 3020 WARDS FERRY ROAD, LYNCHBURG, VA 24502	JAT	AD3	AD3-
			DATE: 02/28/14	PROJECT NO: 520910	E2.3.3-3



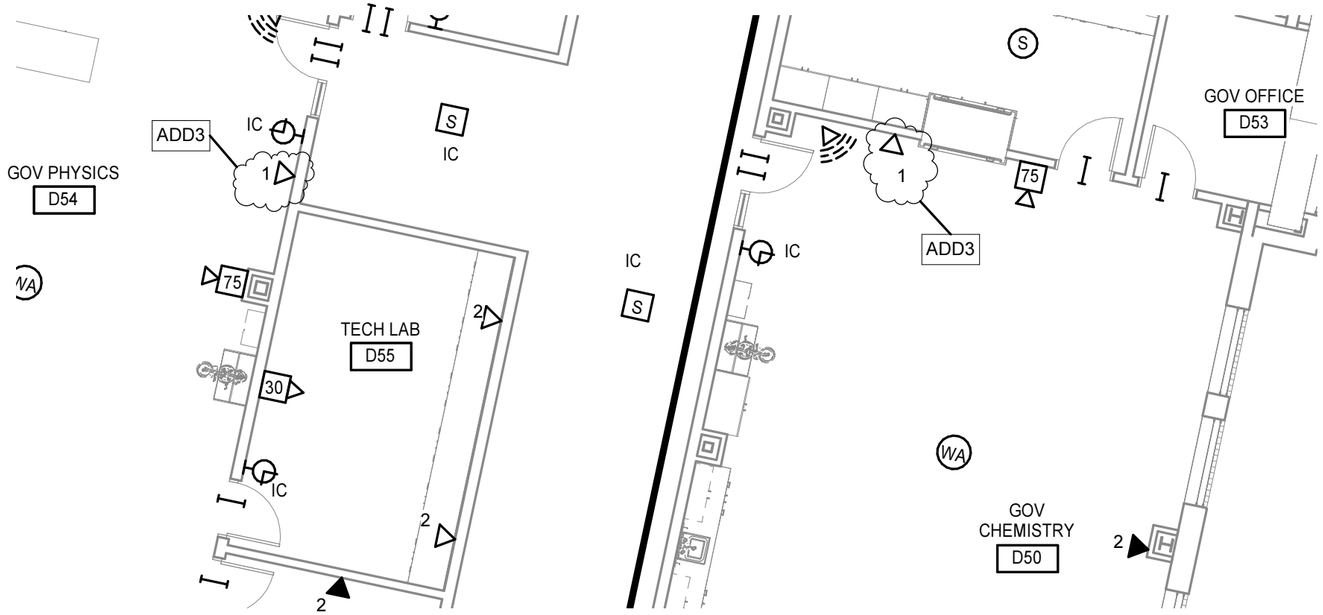
DRAWING TITLE:	CONTRACT DWG NO.:	PROJECT:
REVISIONS TO PART D POWER	**E2.4.2**	**HERITAGE HIGH SCHOOL** **3020 WARDS FERRY ROAD, LYNCHBURG, VA 24502**

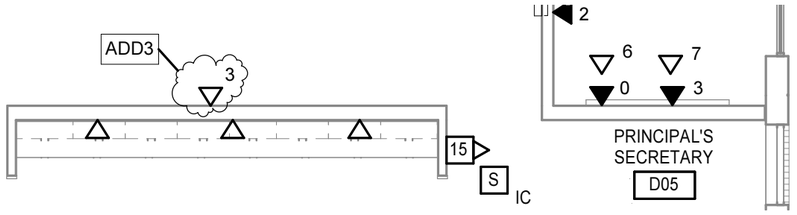
MOSELEYARCHITECTS

3200 NORFOLK STREET, RICHMOND, VIRGINIA, 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

DRAWN BY:	ATTACHMENT TO:	SUPPLEMENTAL DWG. NO:
JAT	**AD3**	**AD3**
DATE: **02/28/14**	PROJECT NO: **520910**	**-E2.4.2-1**

2/24/2014 2:07:44 PM



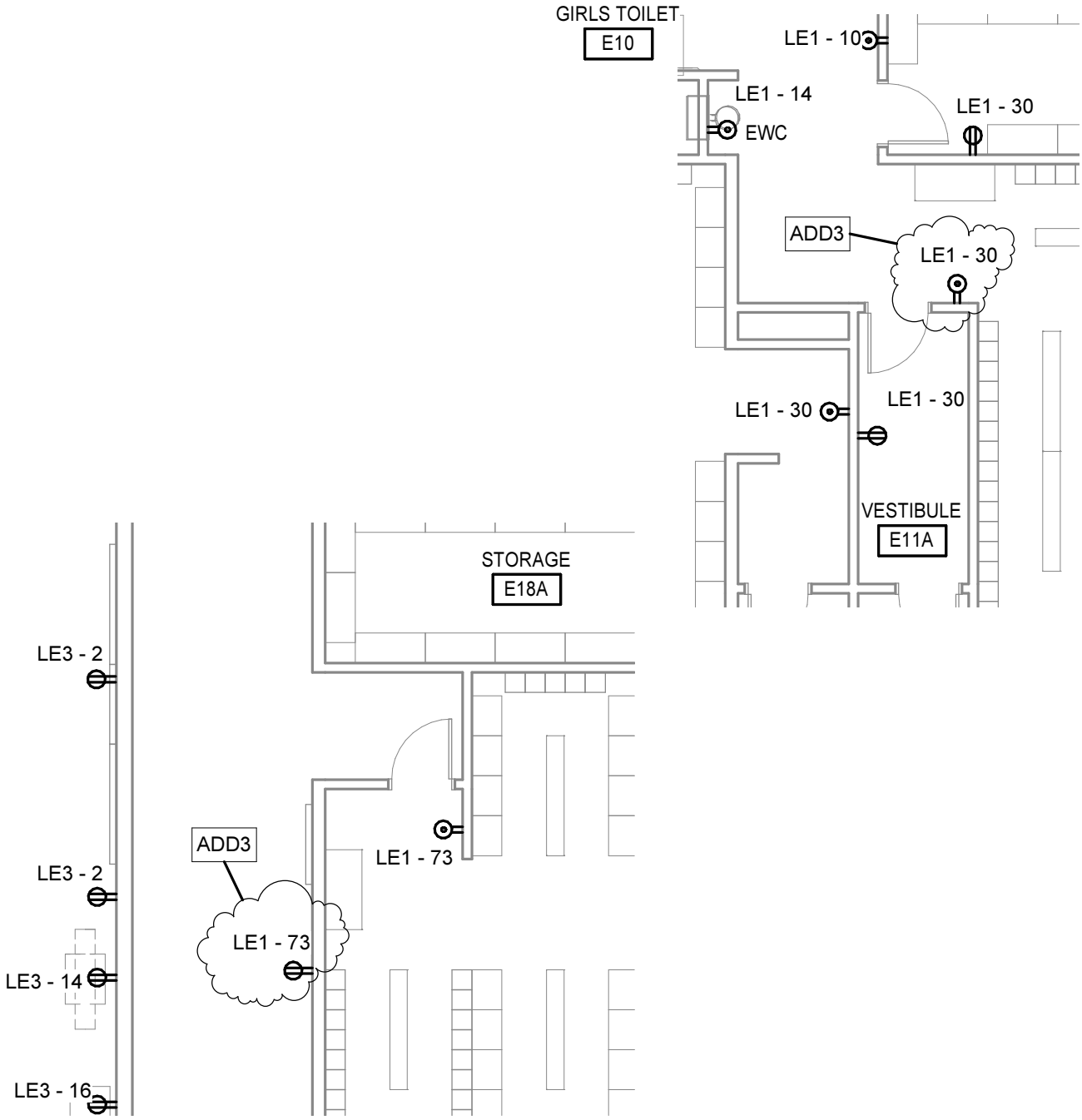


0' 2' 4' 8' 16'

2/24/2014 2:20:37 PM

MOSELEYARCHITECTS
3200 NORFOLK STREET, RICHMOND, VIRGINIA, 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

DRAWING TITLE:	CONTRACT DWG NO.:	PROJECT:	DRAWN BY:	ATTACHMENT TO:	SUPPLEMENTAL DWG. NO:
REVISIONS TO PART D COMM	E2.4.3	HERITAGE HIGH SCHOOL 3020 WARDS FERRY ROAD, LYNCHBURG, VA 24502	JAT	AD3	AD3-E2.4.3-1
			DATE: 02/28/14	PROJECT NO: 520910	



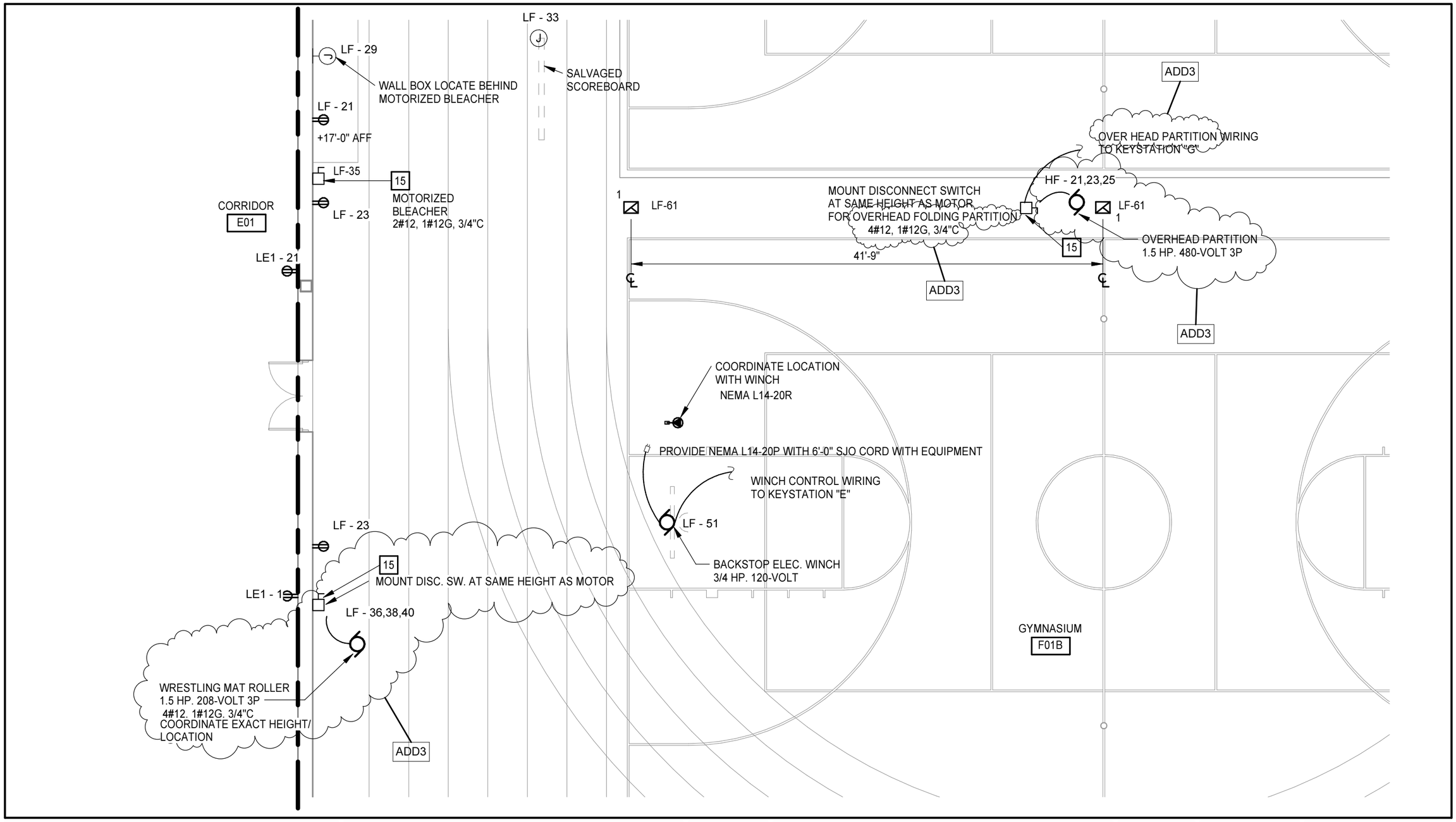
DRAWING TITLE:	CONTRACT DWG NO.:	PROJECT:
REVISIONS TO PART E POWER	**E2.5.2**	**HERITAGE HIGH SCHOOL** **3020 WARDS FERRY ROAD, LYNCHBURG, VA 24502**

MOSELEYARCHITECTS

3200 NORFOLK STREET, RICHMOND, VIRGINIA, 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

DRAWN BY:	ATTACHMENT TO:	SUPPLEMENTAL DWG. NO:
JAT	**AD3**	**AD3-E2.5.2-1**
DATE: **02/28/14**	PROJECT NO: **520910**	

2/24/2014 2:08:03 PM

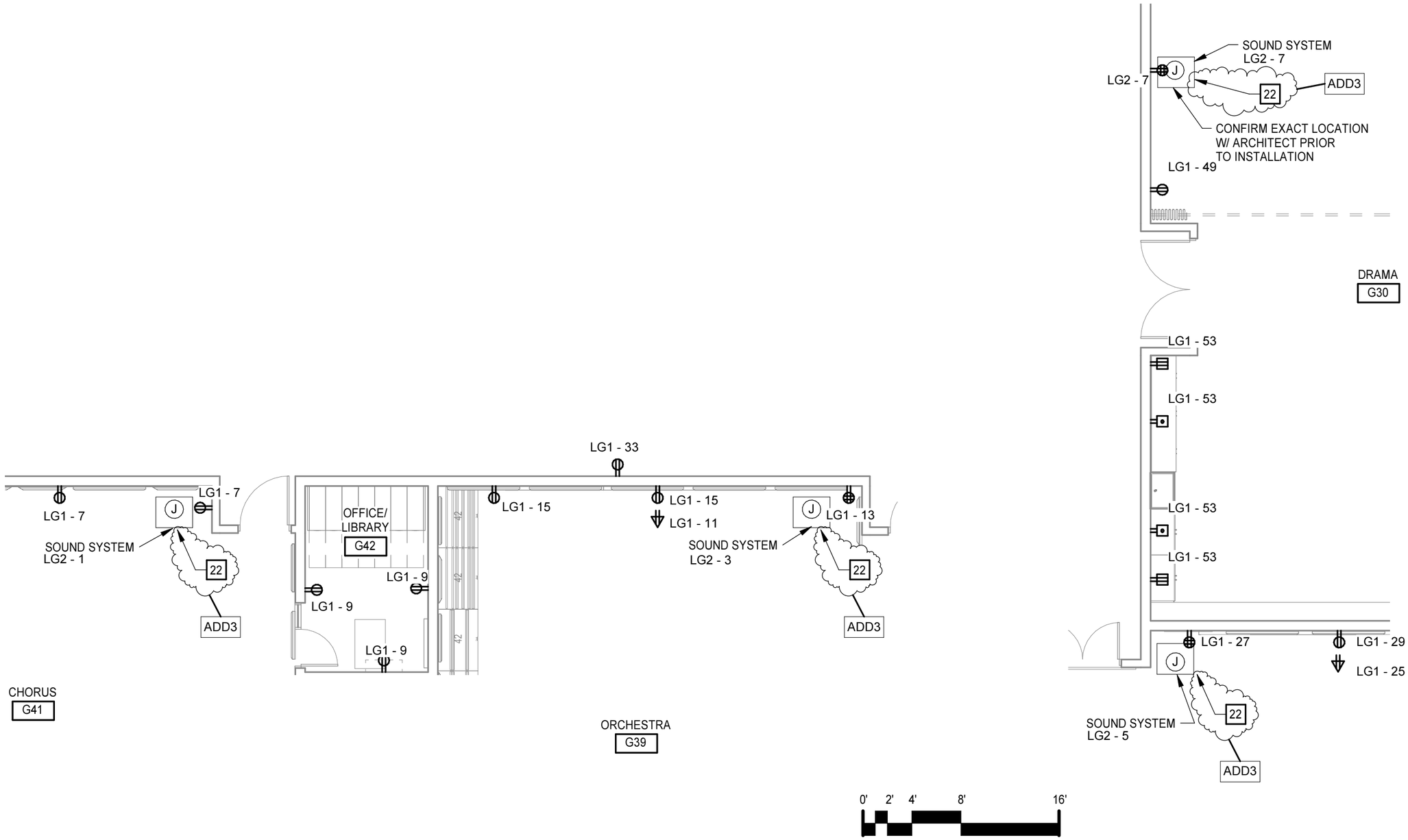


2/27/2014 11:25:17 AM

MOSELEYARCHITECTS

3200 NORFOLK STREET, RICHMOND, VIRGINIA, 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

DRAWING TITLE:	CONTRACT DWG NO.:	PROJECT:	DRAWN BY:	ATTACHMENT TO:	SUPPLEMENTAL DWG. NO:
REVISIONS TO PART F POWER	**E2.6.2**	**HERITAGE HIGH SCHOOL** **3020 WARDS FERRY ROAD, LYNCHBURG, VA 24502**	**JAT**	**AD3**	**AD3-E2.6.2-1**
			DATE: **02/28/14**	PROJECT NO: **520910**	

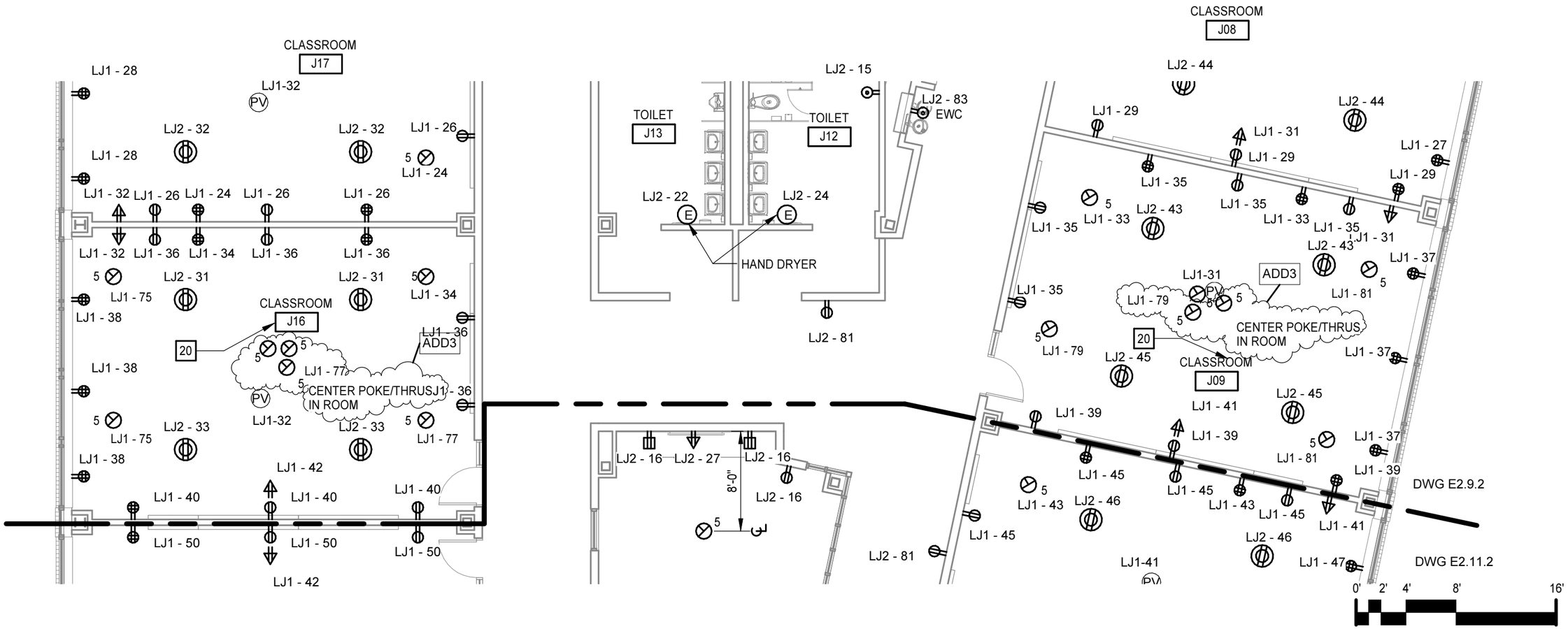


2/24/2014 2:21:24 PM

MOSELEYARCHITECTS

3200 NORFOLK STREET, RICHMOND, VIRGINIA, 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

DRAWING TITLE:	CONTRACT DWG NO.:	PROJECT:	DRAWN BY:	ATTACHMENT TO:	SUPPLEMENTAL DWG. NO:
REVISIONS TO PART G POWER	E2.7.2	HERITAGE HIGH SCHOOL 3020 WARDS FERRY ROAD, LYNCHBURG, VA 24502	JAT	AD3	AD3
			DATE: 02/28/14	PROJECT NO: 520910	-E2.7.2-1

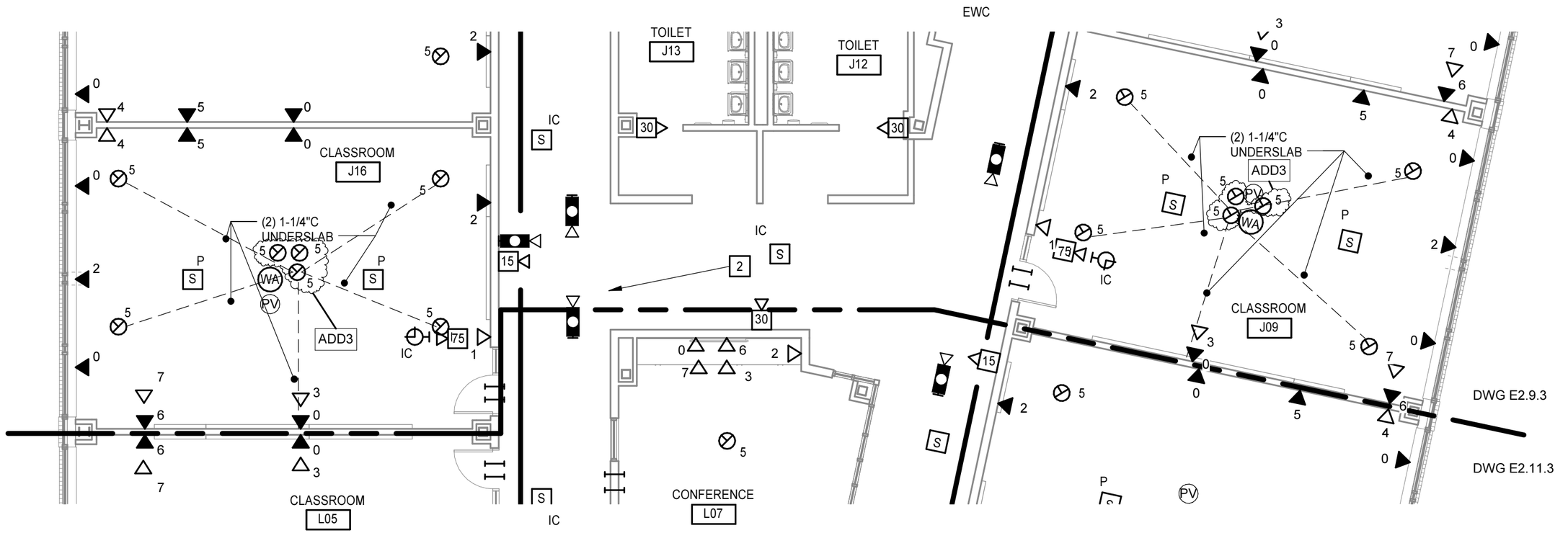


2/27/2014 10:42:46 AM

MOSELEYARCHITECTS

3200 NORFOLK STREET, RICHMOND, VIRGINIA, 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

DRAWING TITLE:	CONTRACT DWG NO.:	PROJECT:	DRAWN BY:	ATTACHMENT TO:	SUPPLEMENTAL DWG. NO:
REVISIONS TO PART J POWER	**E2.9.2**	**HERITAGE HIGH SCHOOL** **3020 WARDS FERRY ROAD, LYNCHBURG, VA 24502**	**JAT**	**AD3**	**AD3-E2.9.2-1**
			DATE: **02/28/14**	PROJECT NO: **520910**	

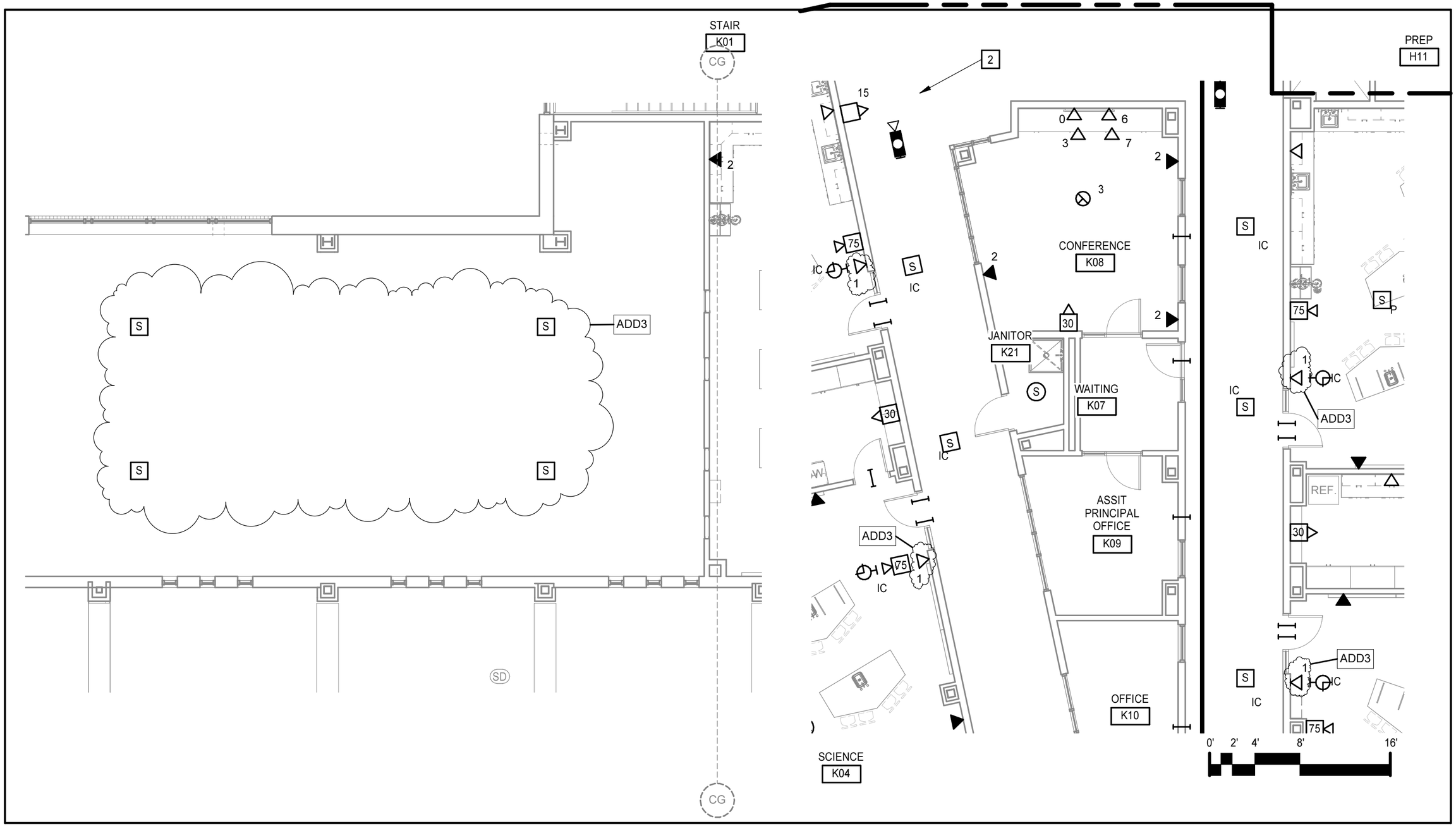


2/27/2014 10:43:00 AM

MOSELEYARCHITECTS

3200 NORFOLK STREET, RICHMOND, VIRGINIA, 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

DRAWING TITLE:	CONTRACT DWG NO.:	PROJECT:	DRAWN BY:	ATTACHMENT TO:	SUPPLEMENTAL DWG. NO:
REVISIONS TO PART J COMM	E2.9.3	HERITAGE HIGH SCHOOL 3020 WARDS FERRY ROAD, LYNCHBURG, VA 24502	JAT	AD3	AD3-
			DATE: 02/28/14	PROJECT NO: 520910	E2.9.3-1

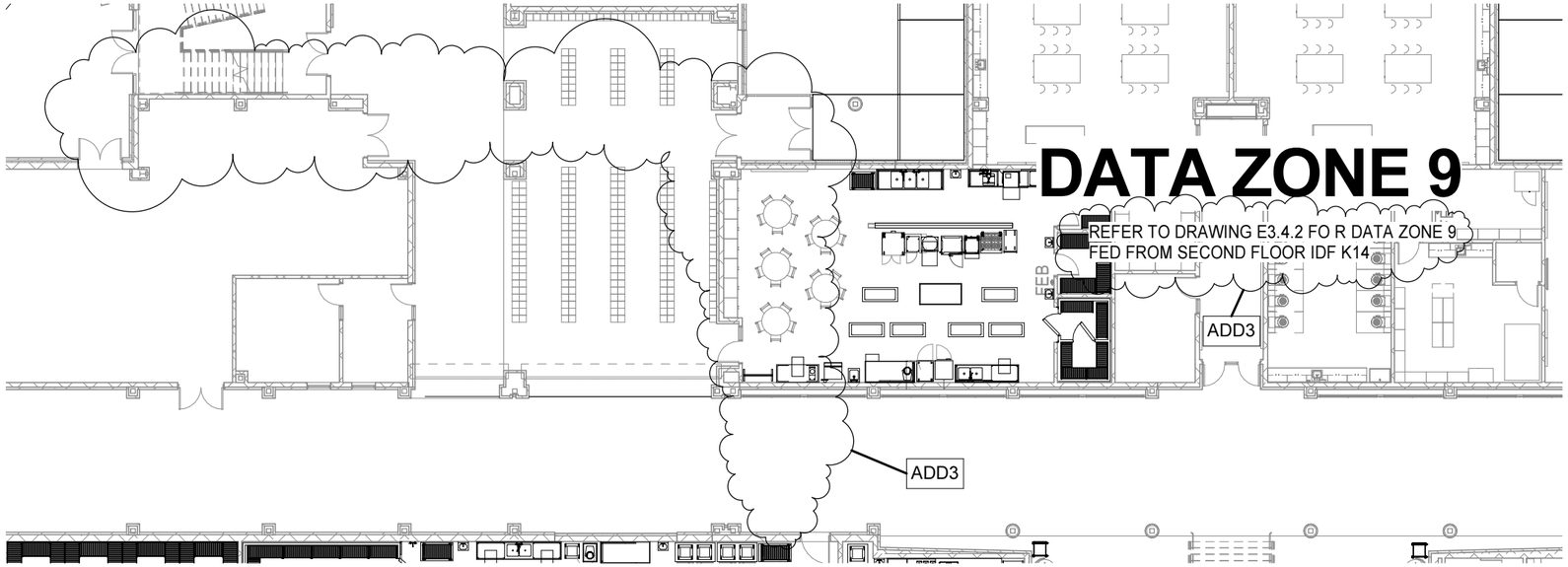


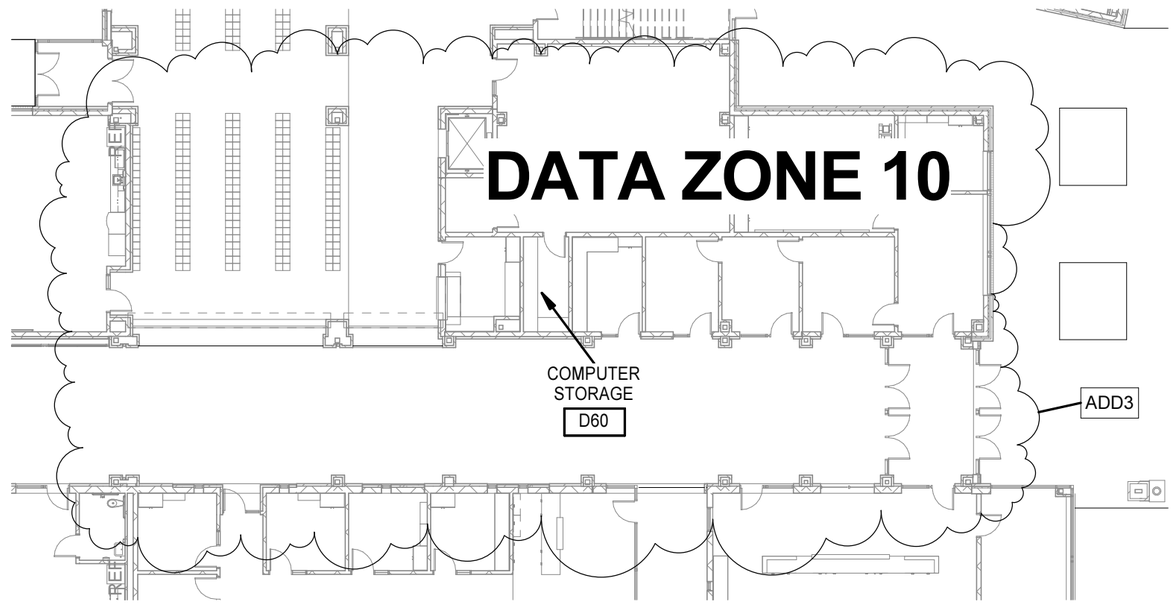
2/24/2014 2:22:43 PM

MOSELEYARCHITECTS

3200 NORFOLK STREET, RICHMOND, VIRGINIA, 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

DRAWING TITLE:	CONTRACT DWG NO.:	PROJECT:	DRAWN BY:	ATTACHMENT TO:	SUPPLEMENTAL DWG. NO:
REVISIONS TO PART K COMM	E2.10.3	HERITAGE HIGH SCHOOL 3020 WARDS FERRY ROAD, LYNCHBURG, VA 24502	JAT	AD3	AD3-
			DATE: 02/28/14	PROJECT NO: 520910	E2.10.3-1



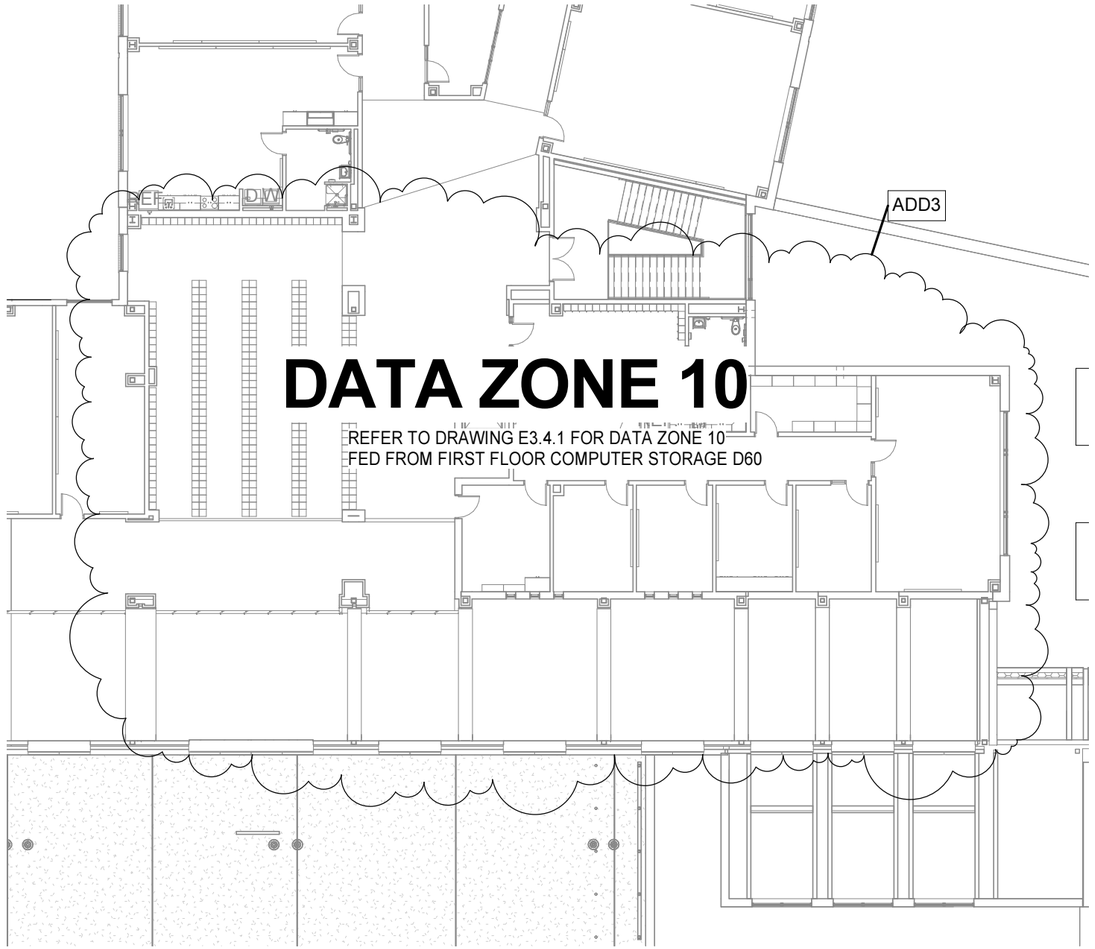


NO SCALE

2/24/2014 2:27:14 PM

MOSELEYARCHITECTS
3200 NORFOLK STREET, RICHMOND, VIRGINIA, 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

DRAWING TITLE:	CONTRACT DWG NO.:	PROJECT:	DRAWN BY:	ATTACHMENT TO:	SUPPLEMENTAL DWG. NO:
REVISIONS TO FIRST FLOOR DATA ZONE PLANS	E3.4.1-1	HERITAGE HIGH SCHOOL 3020 WARDS FERRY ROAD, LYNCHBURG, VA 24502	JAT	AD3	AD3-E3.4.1-1
			DATE: 02/28/14	PROJECT NO: 520910	

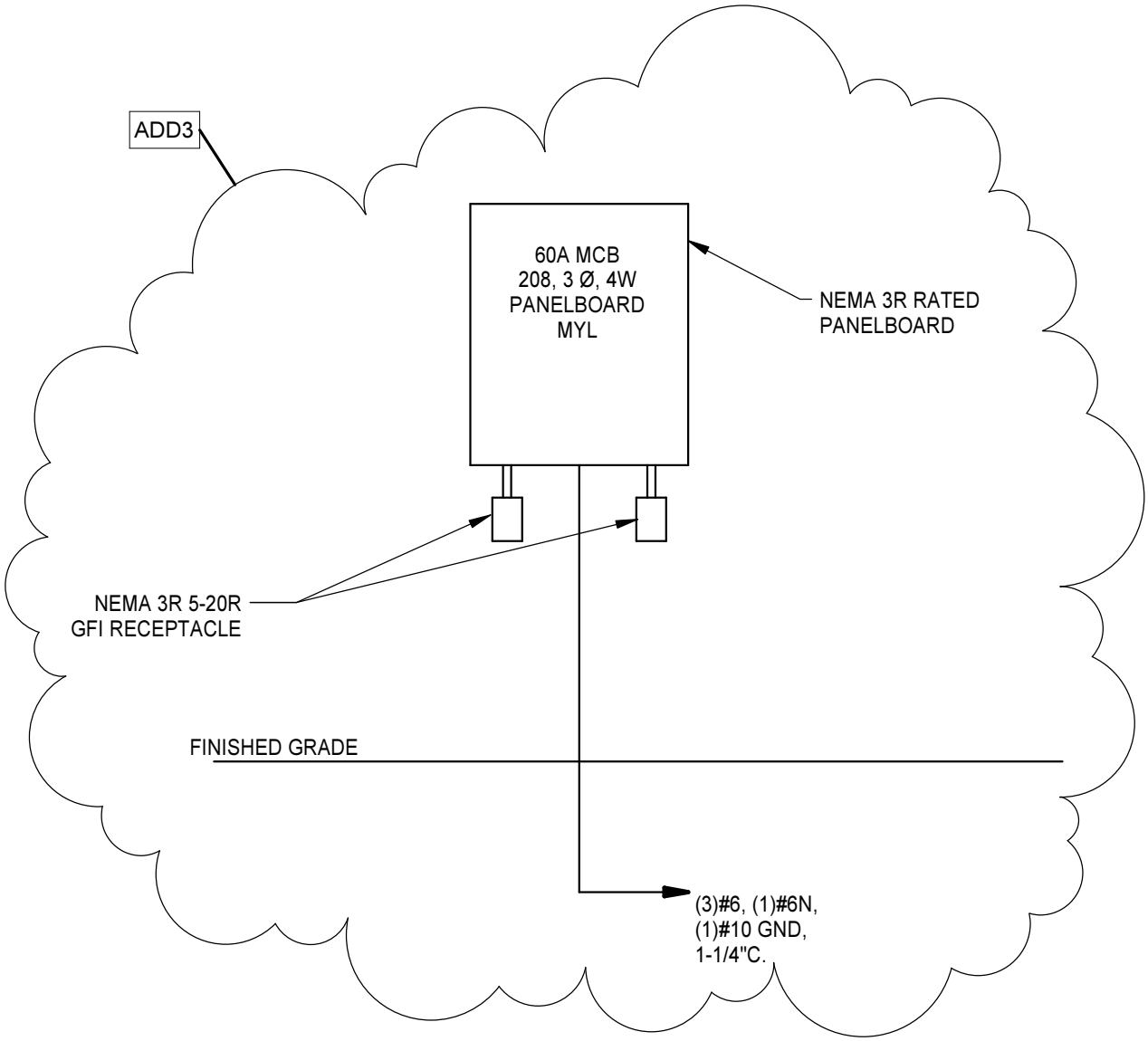


NO SCALE

2/24/2014 2:26:09 PM

MOSELEYARCHITECTS
3200 NORFOLK STREET, RICHMOND, VIRGINIA, 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

DRAWING TITLE:	CONTRACT DWG NO.:	PROJECT:	DRAWN BY:	ATTACHMENT TO:	SUPPLEMENTAL DWG. NO:
REVISIONS TO SECOND FLOOR DATA ZONES	E3.4.2	HERITAGE HIGH SCHOOL 3020 WARDS FERRY ROAD, LYNCHBURG, VA 24502	JAT	AD3	AD3-E3.4.2-1
			DATE: 02/28/14	PROJECT NO: 520910	



NO SCALE

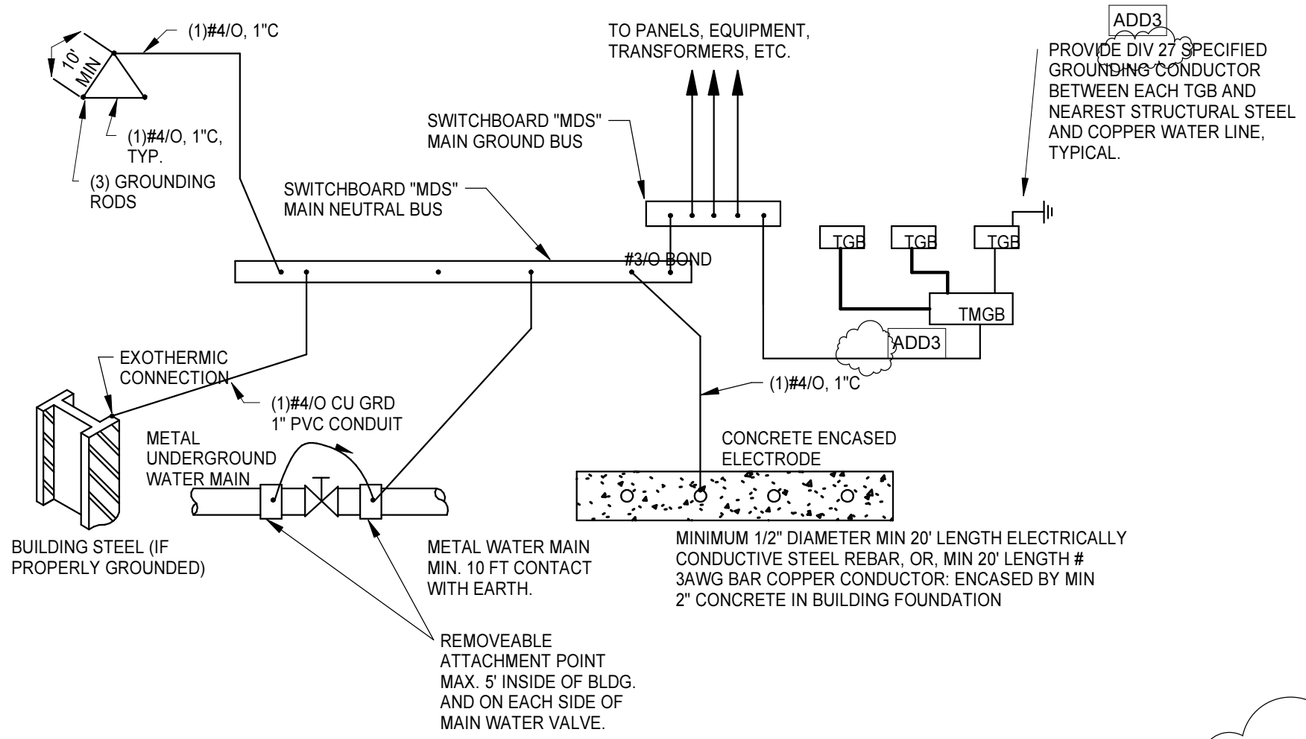
DRAWING TITLE:	CONTRACT DWG NO.:	PROJECT:
REVISION TO E4.1	**E4.1**	**HERITAGE HIGH SCHOOL** **3020 WARDS FERRY ROAD, LYNCHBURG, VA 24502**

MOSELEYARCHITECTS

3200 NORFOLK STREET, RICHMOND, VIRGINIA, 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

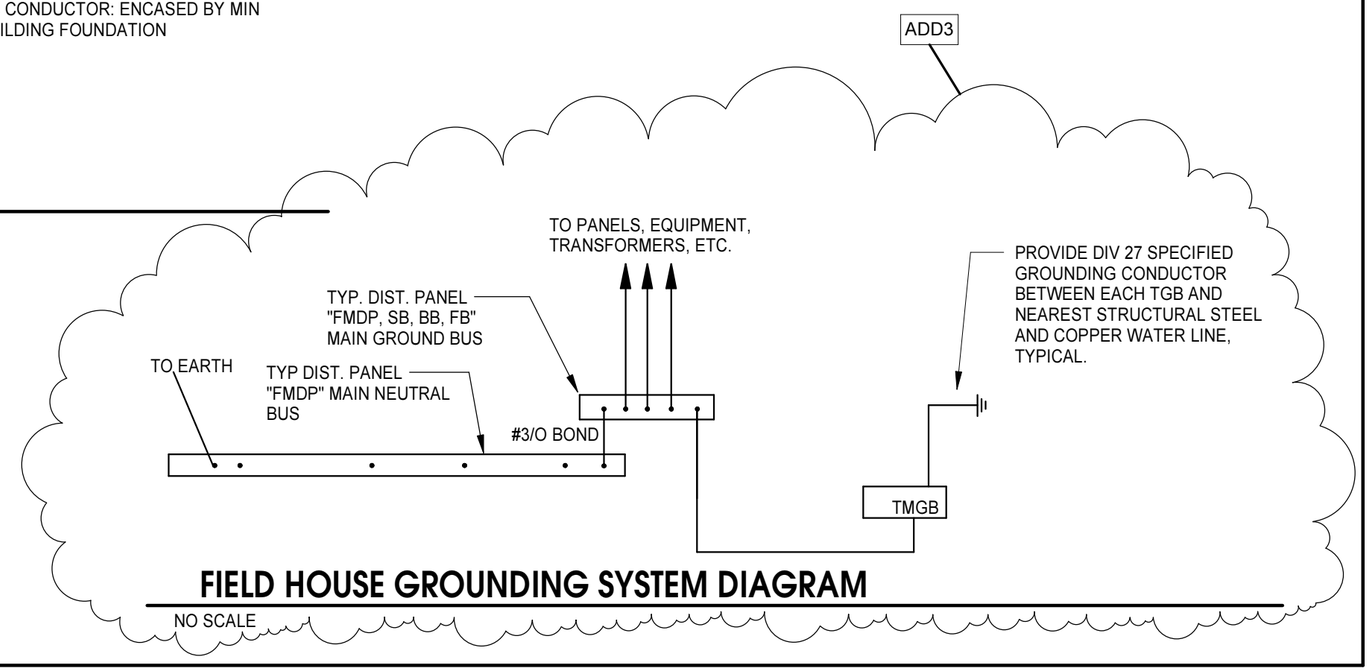
DRAWN BY:	ATTACHMENT TO:	SUPPLEMENTAL DWG. NO:
JAT	**AD3**	**AD3-E4.1-1**
DATE: **02/28/14**	PROJECT NO: **520910**	

2/24/2014 2:09:40 PM



GROUNDING SYSTEM DIAGRAM

NO SCALE



FIELD HOUSE GROUNDING SYSTEM DIAGRAM

NO SCALE

2/27/2014 10:21:32 AM

MOSELEYARCHITECTS

3200 NORFOLK STREET, RICHMOND, VIRGINIA, 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

DRAWING TITLE:	CONTRACT DWG NO.:	PROJECT:	DRAWN BY:	ATTACHMENT TO:	SUPPLEMENTAL DWG. NO:
REVISIONS TO ELECTRICAL DETAILS	E4.1	HERITAGE HIGH SCHOOL 3020 WARDS FERRY ROAD, LYNCHBURG, VA 24502	JAT	AD3	AD3-E4.1-2
			DATE: 02/28/14	PROJECT NO: 520910	

ADD3

PANELBOARD SCHEDULE MYL

LOCATION: FED FROM: MLE

100 AMP MCB 120/208 Wye 3 PH 4 W MOUNT: SURFACE PANEL ASSEMBLY RATED (KAIC): 10

CKT	BRKR	POLE	LOAD	A		B		C		LOAD	POLE	BRKR	CKT
1	20 A	1	GFI RECEP BELOW	0.18	0.18					GFI RECEP BELOW	1	20 A	2
3	20 A	1	SPARE			0.00	0.00			SPARE	1	20 A	4
5	20 A	1	SPARE					0.00	0.00	SPARE	1	20 A	6
7	20 A	1	SPARE	0.00	0.00					SPARE	1	20 A	8
9	20 A	1	SPARE			0.00	0.00			SPARE	1	20 A	10
11	20 A	1	SPARE					0.00	0.00	SPARE	1	20 A	12
13	20 A	1	SPARE	0.00	0.00					SPARE	1	20 A	14
15	20 A	1	SPARE			0.00	0.00			SPARE	1	20 A	16
17	20 A	1	SPARE					0.00	0.00	SPARE	1	20 A	18
19	20 A	1	SPARE	0.00	0.00					SPARE	1	20 A	20
21	20 A	1	SPARE			0.00	0.00			SPARE	1	20 A	22
23	20 A	1	SPARE					0.00	0.00	SPARE	1	20 A	24
25	20 A	1	SPARE	0.00	0.00					SPARE	1	20 A	26
27	20 A	1	SPARE			0.00	0.00			SPARE	1	20 A	28
29	20 A	1	SPARE					0.00	0.00	SPARE	1	20 A	30
31	20 A	1	SPARE	0.00	0.00					SPARE	1	20 A	32
33	20 A	1	SPARE			0.00	0.00			SPARE	1	20 A	34
35	20 A	1	SPARE					0.00	0.00	SPARE	1	20 A	36
37	20 A	1	SPARE	0.00	0.00					SPARE	1	20 A	38
39	20 A	1	SPARE			0.00	0.00			SPARE	1	20 A	40
41	20 A	1	SPARE					0.00	0.00	SPARE	1	20 A	42
				0 kVA		0 kVA		0 kVA					
				3 A		0 A		0 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand
INTERIOR LIGHTING	0.00 kVA	0.00%	0.00 kVA
EXTERIOR LIGHTING	0.00 kVA	0.00%	0.00 kVA
RECEPTACLES	0.36 kVA	100.00%	0.36 kVA
AC / HEAT PUMP	0.00 kVA	0.00%	0.00 kVA
ELECTRIC HEAT	0.00 kVA	0.00%	0.00 kVA
KITCHEN	0.00 kVA	0.00%	0.00 kVA
MISCELLANEOUS	0.00 kVA	0.00%	0.00 kVA

Panel Totals

Total Conn. Load: 0.4 kVA
Total Est. Demand: 0.4 kVA
Total Conn. Current: 1 A
Total Est. Demand... 1 A

NO SCALE

2/24/2014 2:29:33 PM

MOSELEYARCHITECTS
3200 NORFOLK STREET, RICHMOND, VIRGINIA, 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

DRAWING TITLE: REVISIONS TO E5.2 PANEL SCHEDULES

CONTRACT DWG NO.: E5.2

PROJECT: HERITAGE HIGH SCHOOL
3020 WARDS FERRY ROAD, LYNCHBURG, VA 24502

DRAWN BY: JAT

ATTACHMENT TO: AD3

DATE: 02/28/14

PROJECT NO: 520910

SUPPLEMENTAL DWG. NO: AD3-E5.2-1

2/24/2014 1:51:38 PM

COMMUNICATIONS LEGEND

NOTE: REFER TO 'TYPICAL COMMUNICATION OUTLET DETAIL' FOR BOX & CONDUIT REQUIREMENTS. REFER TO TELECOMMUNICATION DEVICE DETAILS FOR CABLING AND TERMINAL JACK REQUIREMENTS.

SYMBOL	DESCRIPTION
▽X	TELECOMMUNICATIONS OUTLET, SUBSCRIPT NUMBER INDICATES OUTLET TYPE. MOUNT AT +3'-10"AFF U.N.O. REFER TO DRAWING E4.3 FOR OUTLET REQUIREMENTS.
▼X	TELECOMMUNICATIONS OUTLET, SUBSCRIPT NUMBER INDICATES OUTLET TYPE. MOUNT AT +1'-8"AFF U.N.O. REFER TO DRAWING E4.3 FOR OUTLET REQUIREMENTS.
▽	RECESSED FLOOR MOUNT DEVICE COMPLETE WITH FITTINGS FOR FLOOR COVERING.
	INTERCOM STATION WITH PUSHBUTTON, MOUNT AT +4'-6"AFF.
	DIGITAL WALL CLOCK, MOUNT AT +7'-6"AFF. SUBSCRIPT "D" INDICATES DOUBLE FACE CLOCK. SUBSCRIPT "IC" INDICATES INTEGRAL INTERCOM SPEAKER, POE.
M# M#	MICROPHONE OUTLET, WALL MOUNT AT +1'-6"AFF, FLUSH FLOOR MOUNT. SUBSCRIPT NUMBER INDICATES NUMBER OF JACKS TO PROVIDE IN OUTLET
S	SOUND SYSTEM SPEAKER, RECESS WALL MOUNT AT +7'-6"AFF. 'WG' WHERE PRESENT INDICATES PROVIDE PROTECTIVE WIRE GUARD. "IC" INTERCOM SYSTEM, "H" HORN, REFER TO SOUND SYSTEM DETAILS
S	SOUND SYSTEM SPEAKER, RECESS CEILING MOUNT. 'WG' WHERE PRESENT INDICATES PROVIDE PROTECTIVE WIRE GUARD. "IC" INTERCOM SYSTEM, "H" HORN, REFER TO SOUND SYSTEM DETAILS
#	POWER/COMMUNICATIONS RECESSED FLOOR BOX. SUBSCRIPT LETTER INDICATES OUTLET TYPE. REFER TO DETAILS ON DRAWING E4.3 FOR REQUIREMENTS, REFER TO POWER PLANS FOR DIMENSIONS.
#	POWER/COMMUNICATIONS RECESSED FLOOR BOX ON EMERGENCY POWER. SUBSCRIPT LETTER INDICATES OUTLET TYPE. REFER TO DETAILS ON DRAWING E4.3 FOR REQUIREMENTS, REFER TO POWER PLANS FOR DIMENSIONS.
#	POWER/COMMUNICATIONS POKE-THRU FLOOR BOX. SUBSCRIPT LETTER INDICATES OUTLET TYPE. (2) 3/4" CONDUITS, (1) EACH AT OPPOSITE SIDES, TO STUB-UP AT NEAREST COMMUNICATION BOARD, UNO. REFER TO DETAILS ON DRAWING E4.3 FOR REQUIREMENTS, REFER TO POWER PLANS FOR DIMENSIONS.
#	POWER/COMMUNICATIONS POKE-THRU FLOOR BOX ON EMERGENCY POWER. SUBSCRIPT LETTER INDICATES OUTLET TYPE. (2) 3/4" CONDUITS, (1) EACH AT OPPOSITE SIDES, TO STUB-UP AT NEAREST COMMUNICATION BOARD, UNO. REFER TO DETAILS ON DRAWING E4.3 FOR REQUIREMENTS, REFER TO POWER PLANS FOR DIMENSIONS.
– CT –	CABLE TRAY, CEILING MOUNTED, WALL MOUNTED IF REQUIRED, REFER TO MOUNTING DETAILS ON DRAWING E4.5
	TELECOMMUNICATIONS EQUIPMENT RACK, AS SPECIFIED
	2" U.N.O. EMT CONDUIT SLEEVE WITH NYLON BUSHING EACH END UNO, THRU WALL AT +6" ABOVE FINISHED CEILING.
TGB	TELECOMMUNICATIONS GROUND BUS BAR, MOUNT AT +1'-6"AFF.
TMGB	TELECOMMUNICATIONS MAIN GROUND BUS BAR, MOUNT AT +1'-6"AFF.
	LADDER TYPE CABLE TRAY, MOUNT AT +6" ABOVE FINISHED CEILING.
PV	EXTRON PVM 220 PLENUMVAULT MOUNTING KIT, OWNER FURNISHED, INSTALLED BY CONTRACTOR. REFER TO DETAIL ON DRAWING E4.3 FOR REQUIREMENTS
WA	WIRELESS ACCESS POINT, ROUTE TWO (2) CAT 6 CABLES TO NEAREST IDF ROOM
S P	SOUND SYSTEM SPEAKER, RECESS CEILING MOUNT. "P" INDICATES SPEAKERS FOR PROJECTOR, PROVIDED BY OWNER, REFER TO SOUND SYSTEM DETAILS

ADD3

ADD3

NO SCALE

MOSELEYARCHITECTS
3200 NORFOLK STREET, RICHMOND, VIRGINIA, 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

DRAWING TITLE: REVISION TO COMM LEGEND

CONTRACT DWG NO.: E0.1

PROJECT: HERITAGE HIGH SCHOOL
3020 WARDS FERRY ROAD, LYNCHBURG, VA 24502

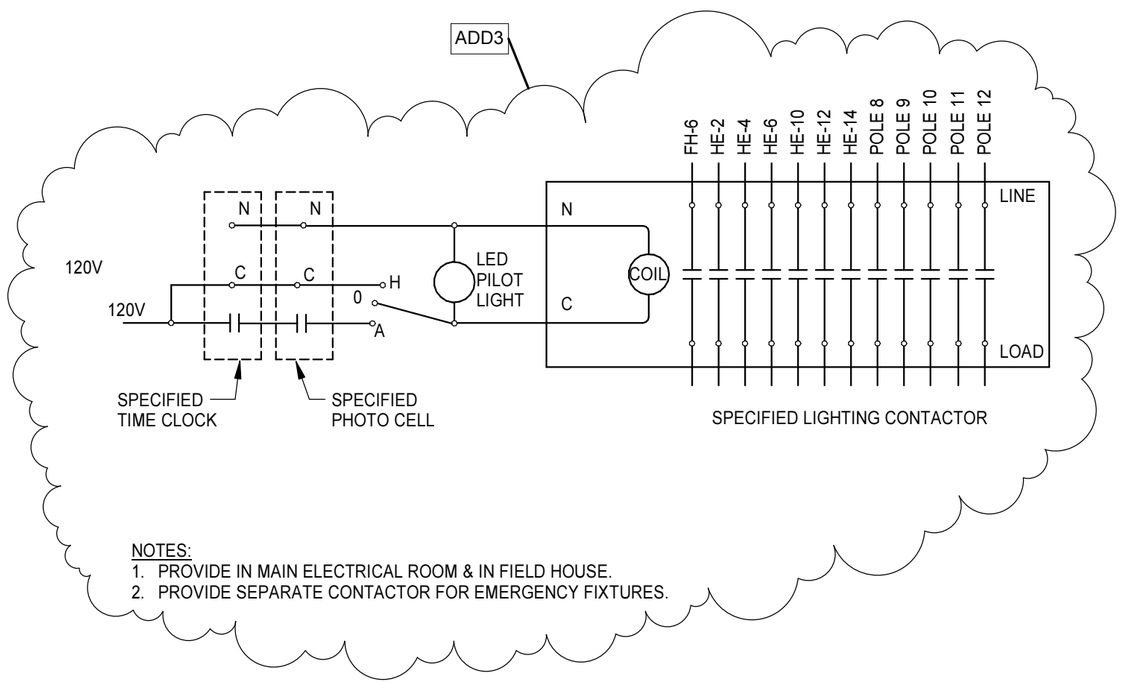
DRAWN BY: JAT

DATE: 02/28/14

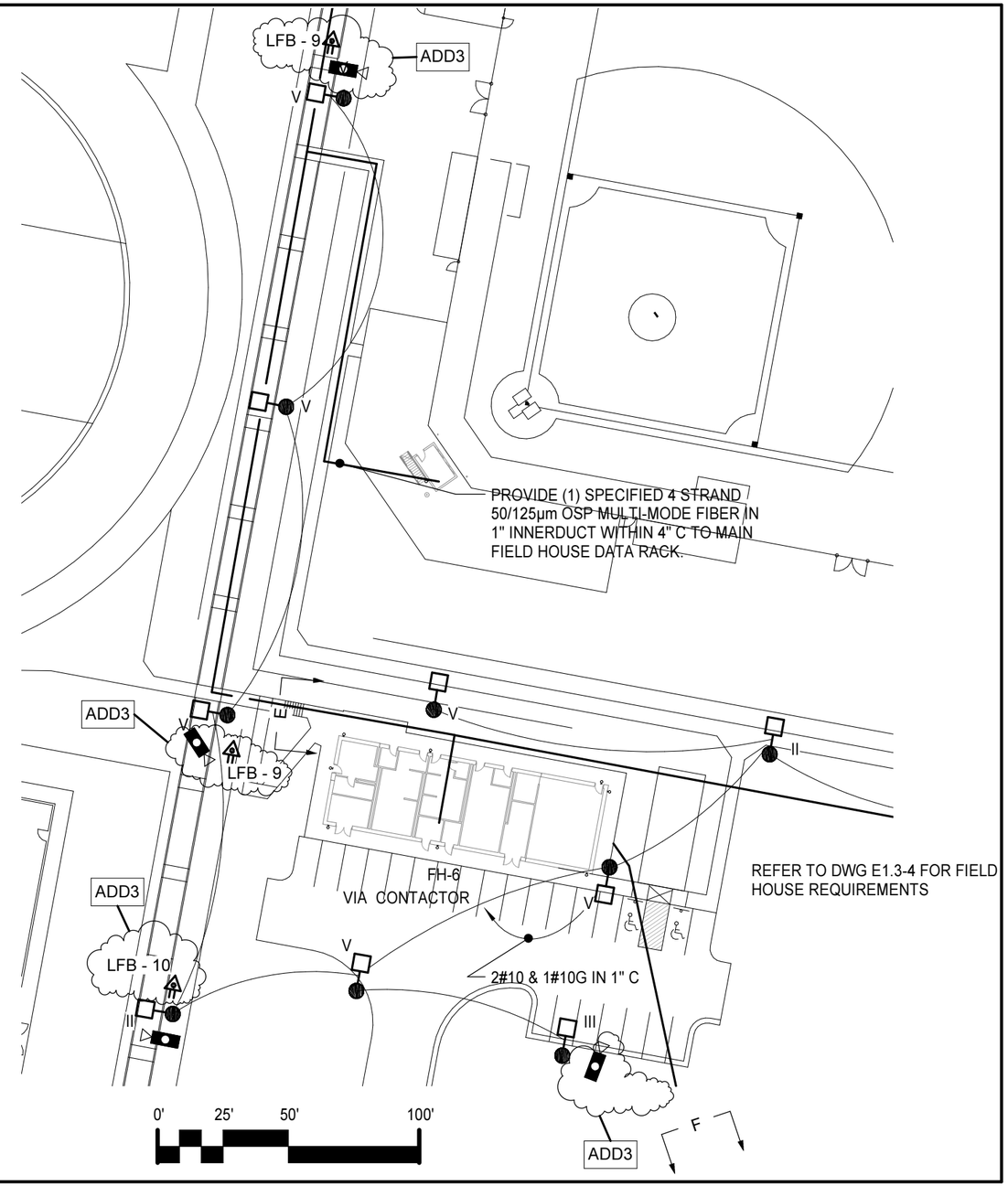
ATTACHMENT TO: AD3

PROJECT NO: 520910

SUPPLEMENTAL DWG. NO: AD3-E0.1-1



NOTES:
1. PROVIDE IN MAIN ELECTRICAL ROOM & IN FIELD HOUSE.
2. PROVIDE SEPARATE CONTACTOR FOR EMERGENCY FIXTURES.

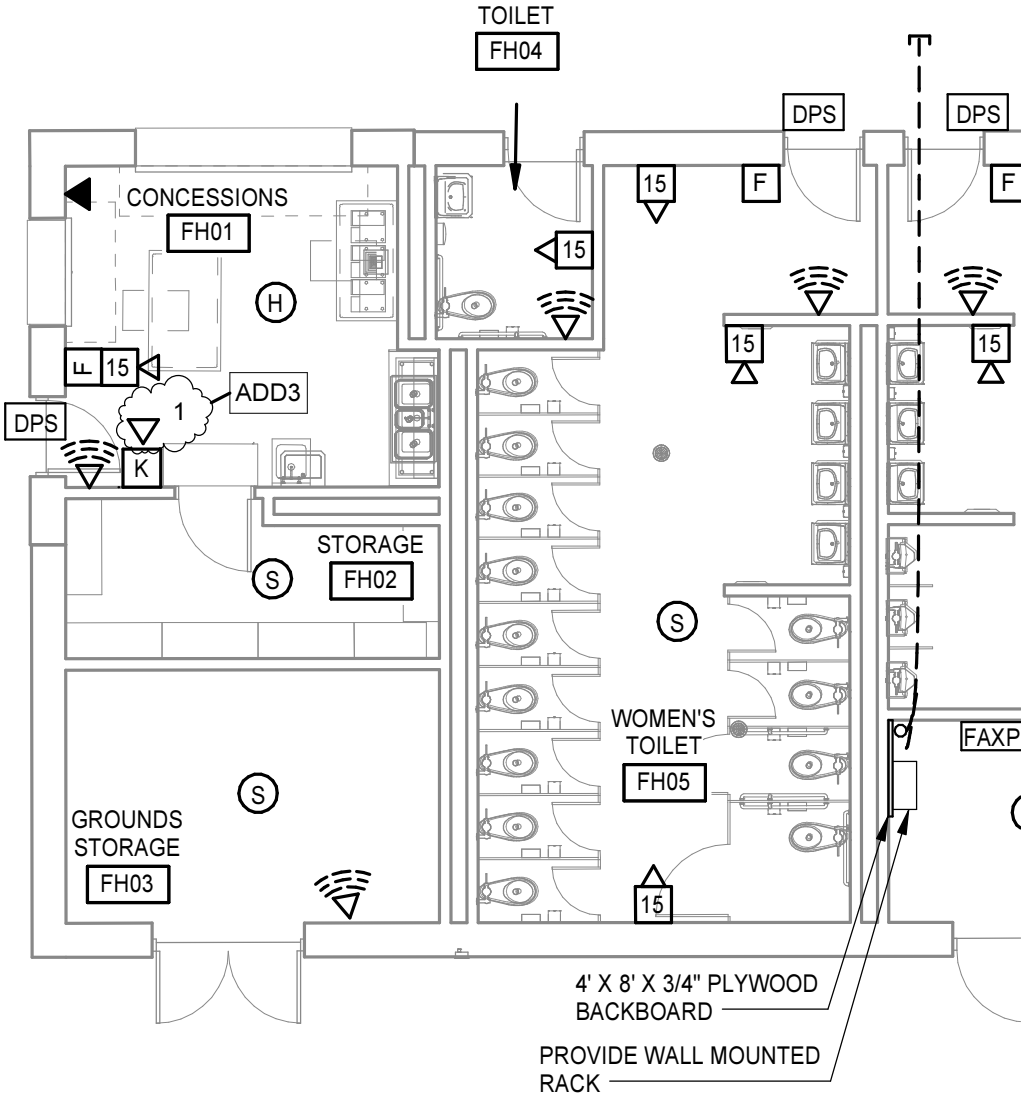


2/24/2014 1:59:15 PM

MOSELEYARCHITECTS

3200 NORFOLK STREET, RICHMOND, VIRGINIA, 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

DRAWING TITLE:	CONTRACT DWG NO.:	PROJECT:	DRAWN BY:	ATTACHMENT TO:	SUPPLEMENTAL DWG. NO:
REVISION TO SITE LIGHTING SOUTH AND LIGHTING CONTACTOR DETAIL	**E1.2**	**HERITAGE HIGH SCHOOL** **3020 WARDS FERRY ROAD, LYNCHBURG, VA 24502**	**JAT**	**AD3**	**AD3-E1.2-1**
			DATE: **02/28/14**	PROJECT NO: **520910**	



0' 2' 4' 8' 16'

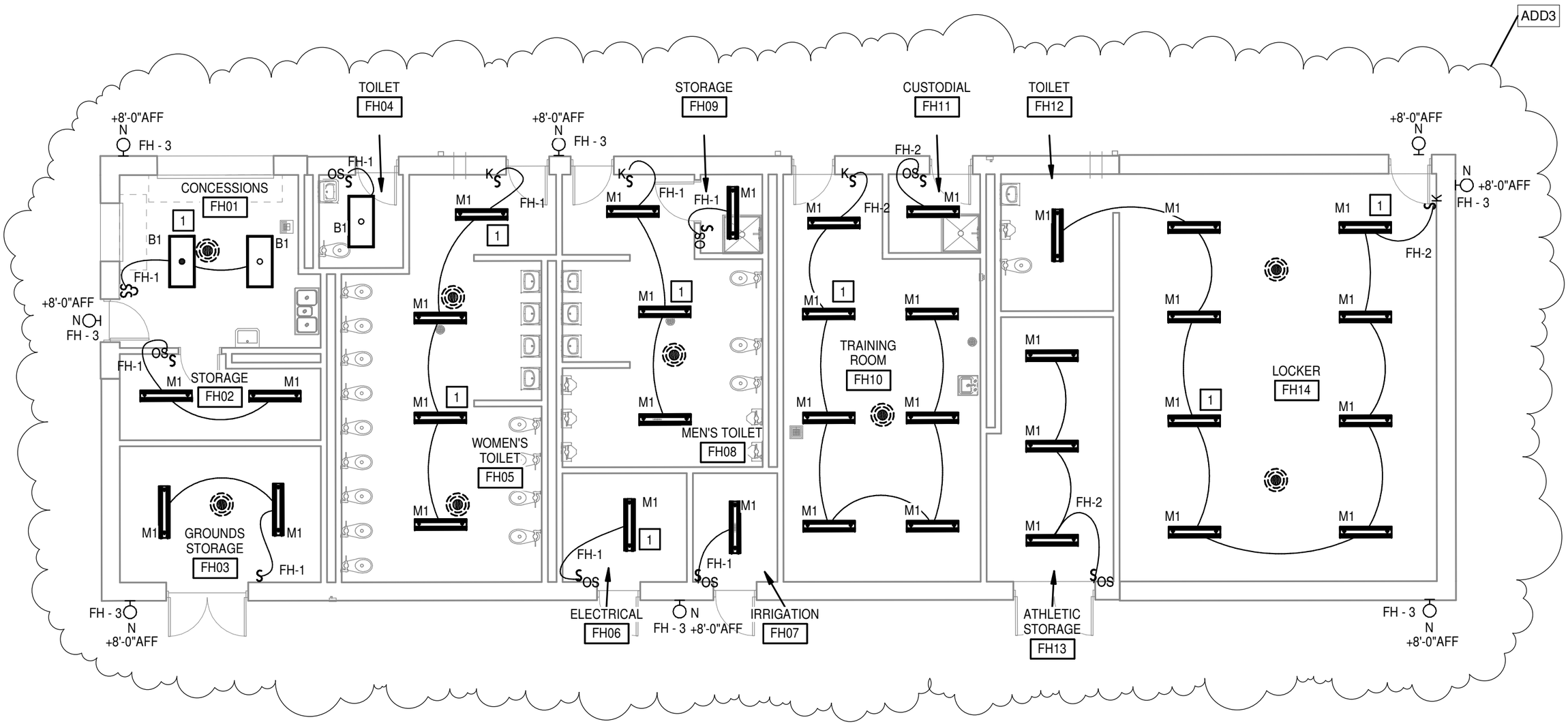
DRAWING TITLE:	CONTRACT DWG NO.:	PROJECT:
REVISION OF FIELD HOUSE COMM	**E1.3**	**HERITAGE HIGH SCHOOL** **3020 WARDS FERRY ROAD, LYNCHBURG, VA 24502**

MOSELEYARCHITECTS

3200 NORFOLK STREET, RICHMOND, VIRGINIA, 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

DRAWN BY:	ATTACHMENT TO:	SUPPLEMENTAL DWG. NO:
JAT	**AD3**	**AD3-E1.3-1**
DATE: **02/28/14**	PROJECT NO: **520910**	

2/24/2014 2:00:17 PM



AD3 - FIELD HOUSE - LIGHTING

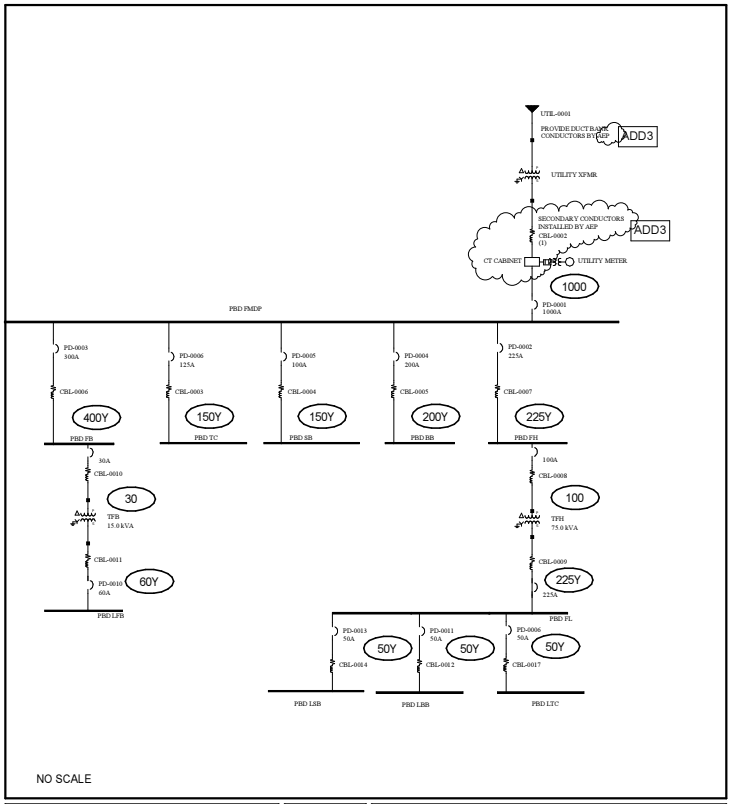
1/8" = 1'-0"

2/27/2014 8:11:03 PM

MOSELEYARCHITECTS

3200 NORFOLK STREET, RICHMOND, VIRGINIA, 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

DRAWING TITLE:	CONTRACT DWG NO.:	PROJECT:	DRAWN BY:	ATTACHMENT TO:	SUPPLEMENTAL DWG. NO:
REVISION OF FIELD HOUSE LTG	1.3	HERITAGE HIGH SCHOOL 3020 WARDS FERRY ROAD, LYNCHBURG, VA 24502	ACV	AD3	AD3-E1.3-2
			DATE: 02/27/14	PROJECT NO: 520910	



NO SCALE

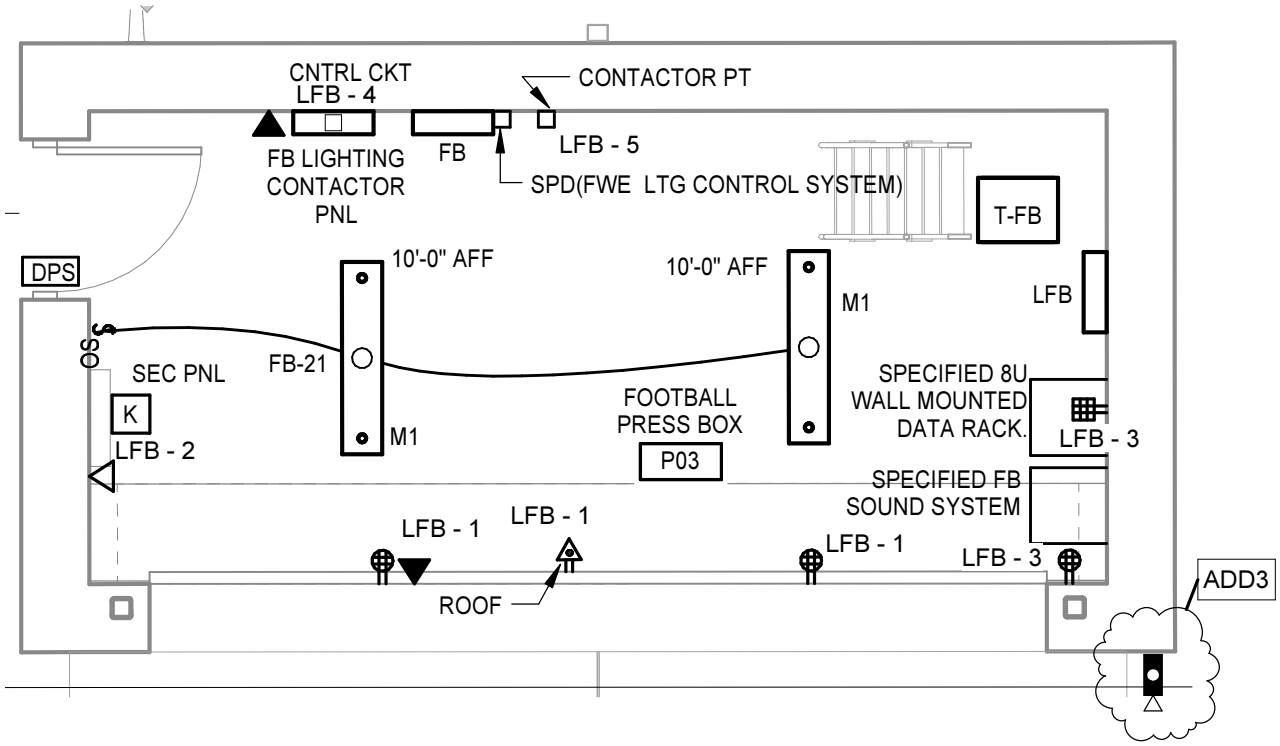
DRAWING TITLE:	CONTRACT DWG NO.:	PROJECT:
REVISION TO FIELD HOUSE RISER	**E1.4**	**HERITAGE HIGH SCHOOL** **3020 WARDS FERRY ROAD, LYNCHBURG, VA 24502**

MOSELEYARCHITECTS

3200 NORFOLK STREET, RICHMOND, VIRGINIA, 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

DRAWN BY:	ATTACHMENT TO:	SUPPLEMENTAL DWG. NO:
JAT	**AD3**	
DATE: **02/28/14**	PROJECT NO: **520910**	**AD3-E1.4-1**

2/25/2014 9:14:55 AM



DRAWING TITLE:	CONTRACT DWG NO.:	PROJECT:
REVISION TO FOOTBALL PRESS BOX COMM	**E1.5**	**HERITAGE HIGH SCHOOL** **3020 WARDS FERRY ROAD, LYNCHBURG, VA 24502**

MOSELEYARCHITECTS

3200 NORFOLK STREET, RICHMOND, VIRGINIA, 23230
PHONE (804) 794-7555 FAX (804) 355-5690
MOSELEYARCHITECTS.COM

DRAWN BY:	ATTACHMENT TO:	SUPPLEMENTAL DWG. NO:
JAT	**AD3**	
DATE: **02/28/14**	PROJECT NO: **520910**	**AD3-E1.5-1**

2/24/2014 2:01:36 PM