USD 320- HIGH SCHOOL IMPROVEMENTS

801 LINCOLN AVENUE, WAMEGO, KS 66547

PRICING DRAWINGS

Owner: USD 320 SCHOOL DISTRICT 1008 8TH STREET WAMEGO, KS 66547

ARCHITECT:

BBN ARCHITECTS, INC. 228 POYNTZ AVE. MANHATTAN, KS 66502 TELEPHONE: (785) 776-4912

MEP ENGINEER: ORAZEM & SCALORA ENGINEERING, P.A. 2312 ANDERSON AVE. MANHATTAN, KS 66502

STRUCTURAL ENGINEER: DUDLEY WILLIAMS AND ASSOCIATES, P.A. 230 S. LAURA SUITE #200 WICHITA, KS 67211

PROJECT DESCRIPTION:

RENOVATION TO EXISTING LOCKER ROOMS IN LOWER GYM, NEW LOCKER ROOMS IN EXISTING WEIGHT ROOM LOCATION, RENOVATION TO FAMILY AND CONSUMER SCIENCE CLASSROOM, ADDITION OF AUTOMATIC VOLLEYBALL NETS IN UPPER GYM, RENOVATION OF PUBLIC RESTROOMS.

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D105	DEMO PLAN- FACS I
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A101 A103 A104 A105 A106 A120 A121 A122 A123 A200 A202 A203 A204 A205 A204 A205 A206 A207 A208 A207 A208 A301 A501 A501 A501 A501	UPPER GYMNASIUM EXISTING LOCKER R NEW LOCKER ROOM FACS FIRST FLOOR FACS SECOND FLOO CEILING PLAN EXISTI CEILING PLAN NEW L CEILING PLAN NEW L CEILING PLAN FACS REFLECTED CEILING EXTERIOR ELEVATION INTERIOR ELEVATION INTERIOR ELEVATION INTERIOR ELEVATION INTERIOR ELEVATION INTERIOR ELEVATION INTERIOR ELEVATION INTERIOR ELEVATION INTERIOR ELEVATION DETAILS FINISH SCHEDULE DOOR SCHEDULE
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FS1.01	FACS EQUIPMENT PL

GENERAL NOTES

1. GENERAL NOTES APPLY TO ALL ARCHITECTURAL DRAWINGS & DETAILS.

2. ALL WORK SHALL CONFORM WITH APPLICABLE BUILDING CODES, REGULATIONS, AND ORDINANCES. CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS.

3. DESIGN DOCUMENTS HAVE BEEN PREPARED DESCRIBING GENERAL REQUIREMENTS FOR WORK AT THE EXISTING SITE. IDENTIFICATION OF EXISTING CONDITIONS, SHOWN ON THE PLANS, IS BASED ON A GENERAL REVIEW OF EXISTING CONDITIONS. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO PROCEEDING WITH CONSTRUCTION AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.

4. THE CONTRACTOR SHALL VERIFY ALL LAYOUT DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH CONSTRUCTION.

5. CONTRACTOR SHALL COORDINATE THE WORK WITH THE INSTALLATION OF ALL EQUIPMENT/TRADES SHOWN ON THE PLANS.

6. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MEANS, METHODS, AND SEQUENCES OF CONSTRUCTION AND THE SAFETY OF ALL CONSTRUCTION PERSONNEL AND AUTHORIZED VISITORS TO THE PROJECT SITE.

7. WHERE DISCREPANCIES EXIST IN THE DOCUMENTS THE MOST STRINGENT SHALL APPLY.

OF NEW WATER PIPING.

9. REMOVE AND DISPOSE OF ALL EXISTING FIXTURES, CASEWORK, PARTITIONS, CEILINGS, INSULATION, AND ALL OTHER FINISHES REQUIRED PRIOR TO RENOVATION WORK.

KER ROOM PLAN OOM PLAN LAN MING DETAILS OTES AND SCHEDULES DETAILS

RMATION

XISTING LOCKER ROOMS EW LOCKER ROOMS ACS ROOM ESTROOMS

ER ROOMS COMS 00R FLOOR XISTING LOCKERS NEW LOCKER ROOMS FACS ROOM LING PLANS ATIONS ATIONS ATIONS ATIONS ATIONS ATIONS ATIONS ATIONS ONS

EP DEMOLITION PLANS MEP DEMOLITION PLANS

ECHANICAL PLANS MECHANICAL PLAN ETAILS ETAILS & SCHEDULES

ECTRICAL PLANS ELECTRICAL PLANS ECTRICAL PLAN ETAILS & SCHEDULES

LUMBING PLANS PLUMBING PLANS AILS & SCHEDULES

NT PLAN

8. PATCH, FINISH AND REPAINT ANY WALLS, FLOOR AND CEILINGS DAMAGED OR REMOVED WHILE INSTALLATION

PRICING DRAWINGS Project Number: 16036 Date: 3/23/18 Project Name: **USD 320- HIGH SCHOOL IMPROVEMENTS** Project Address: **801 LINCOLN AVENUE, WAMEGO, KS 66547** Sheet Title: **COVER SHEET** Sheet: **T101**

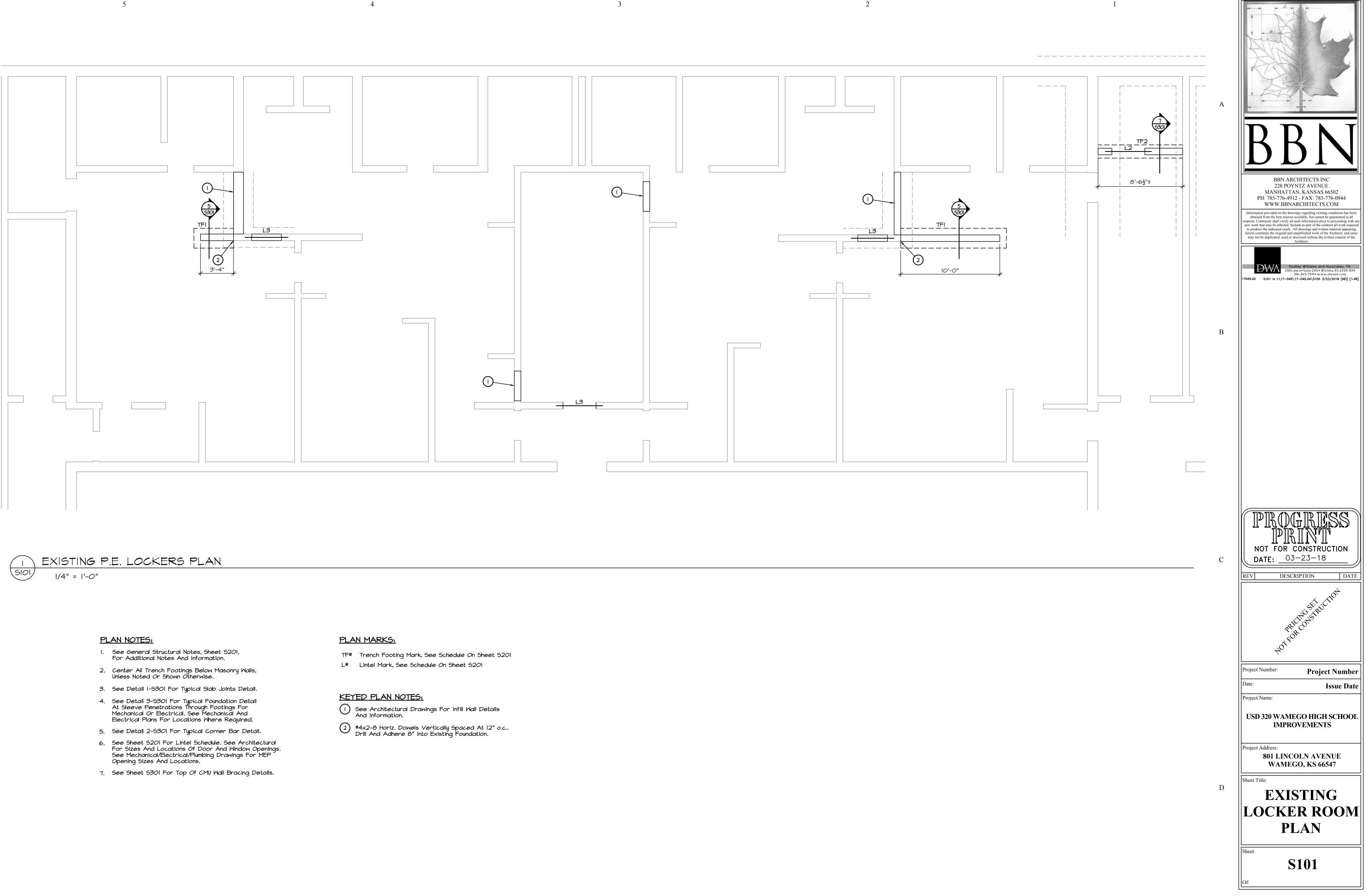


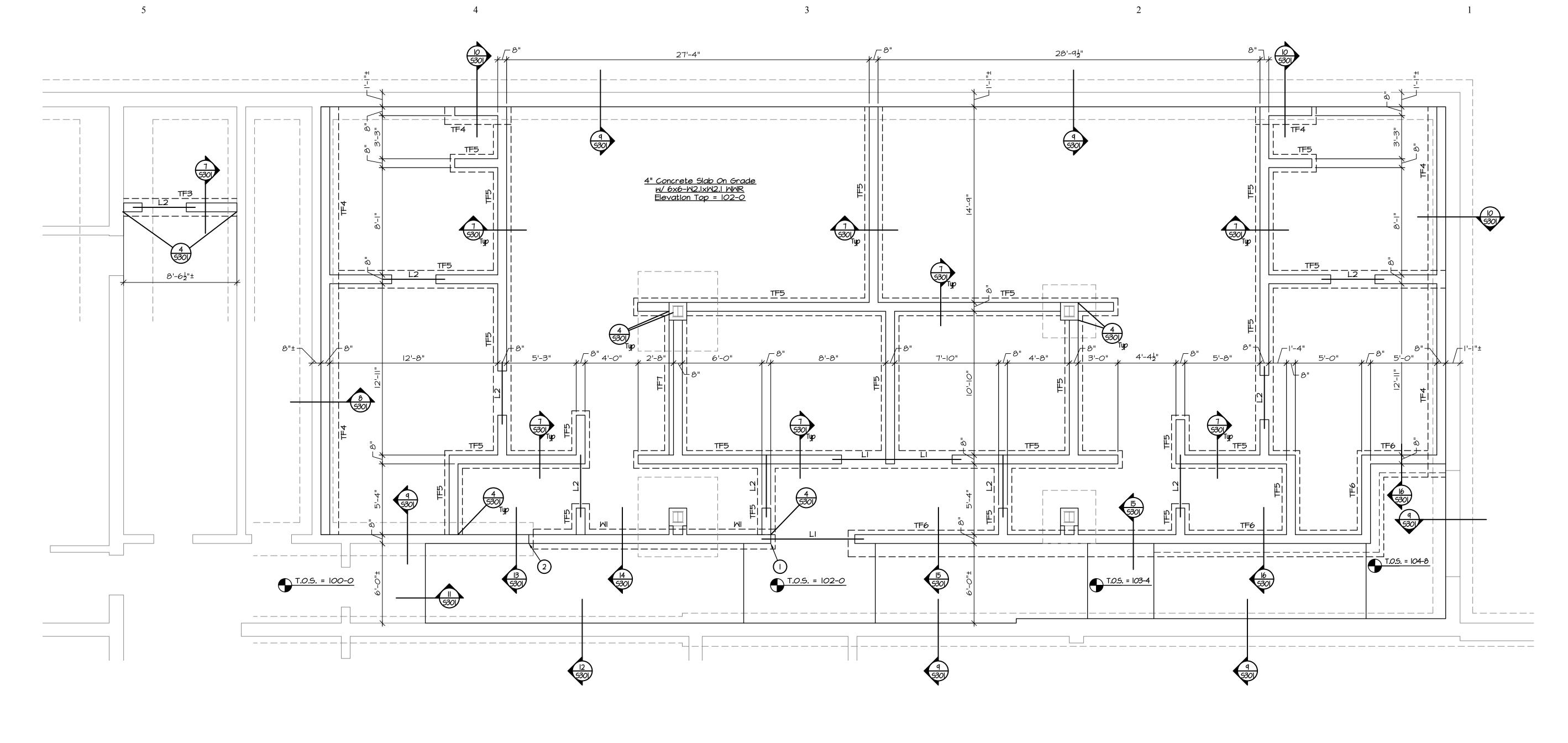
Information provided on the drawings regarding existing conditions has been

obtained from the best sources available, but cannot be guaranteed in all respects. Contractor shall verify all such information prior to proceeding with any new work that may be affected. Include as part of the contract all work require

to produce the indicated result. All drawings and written material appearing herein constitute the original and unpublished work of the Architect, and same may not be duplicated, used or disclosed without the written consent of the

Architect.







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PLAN NOTES:

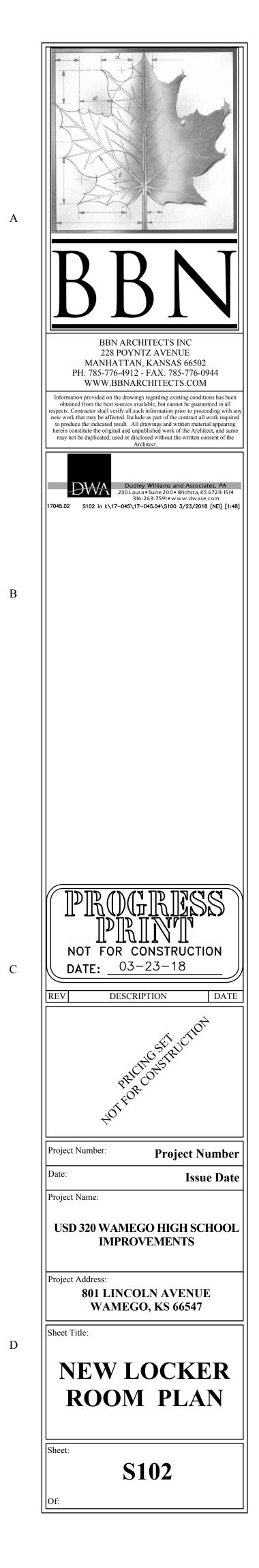
- I. See General Structural Notes, Sheet S201, For Additional Notes And Information.
- 2. Center All Trench Footings Below Masonry Walls, Unless Noted Or Shown Otherwise.
- 3. See Detail I-S301 For Typical Slab Joints Detail.
- 4. See Detail 3-5301 For Typical Foundation Detail At Sleeve Penetrations Through Footings For Mechanical Or Electrical. See Mechanical And Electrical Plans For Locations Where Required.
- 5. See Detail 2-5301 For Typical Corner Bar Detail.
- 6. See Sheet S201 For Lintel Schedule. See Architectural For Sizes And Locations Of Door And Window Openings. See Mechanical/Electrical/Plumbing Drawings For MEP Opening Sizes And Locations.
- 7. See Sheet S301 For Top Of CMU Wall Bracing Details.

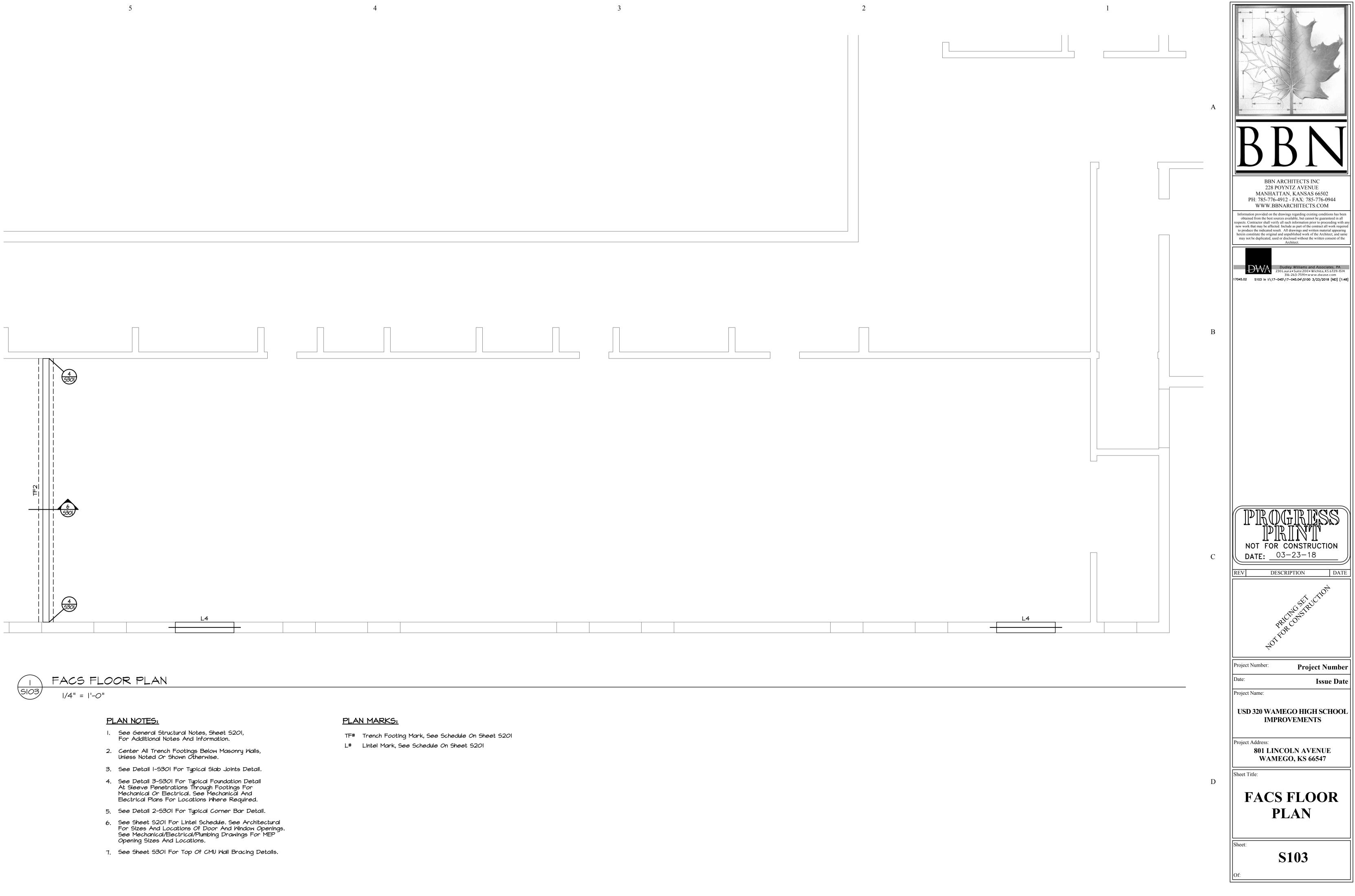
PLAN MARKS:

TF# Trench Footing Mark, See Schedule On Sheet S201 L# Lintel Mark, See Schedule On Sheet S201

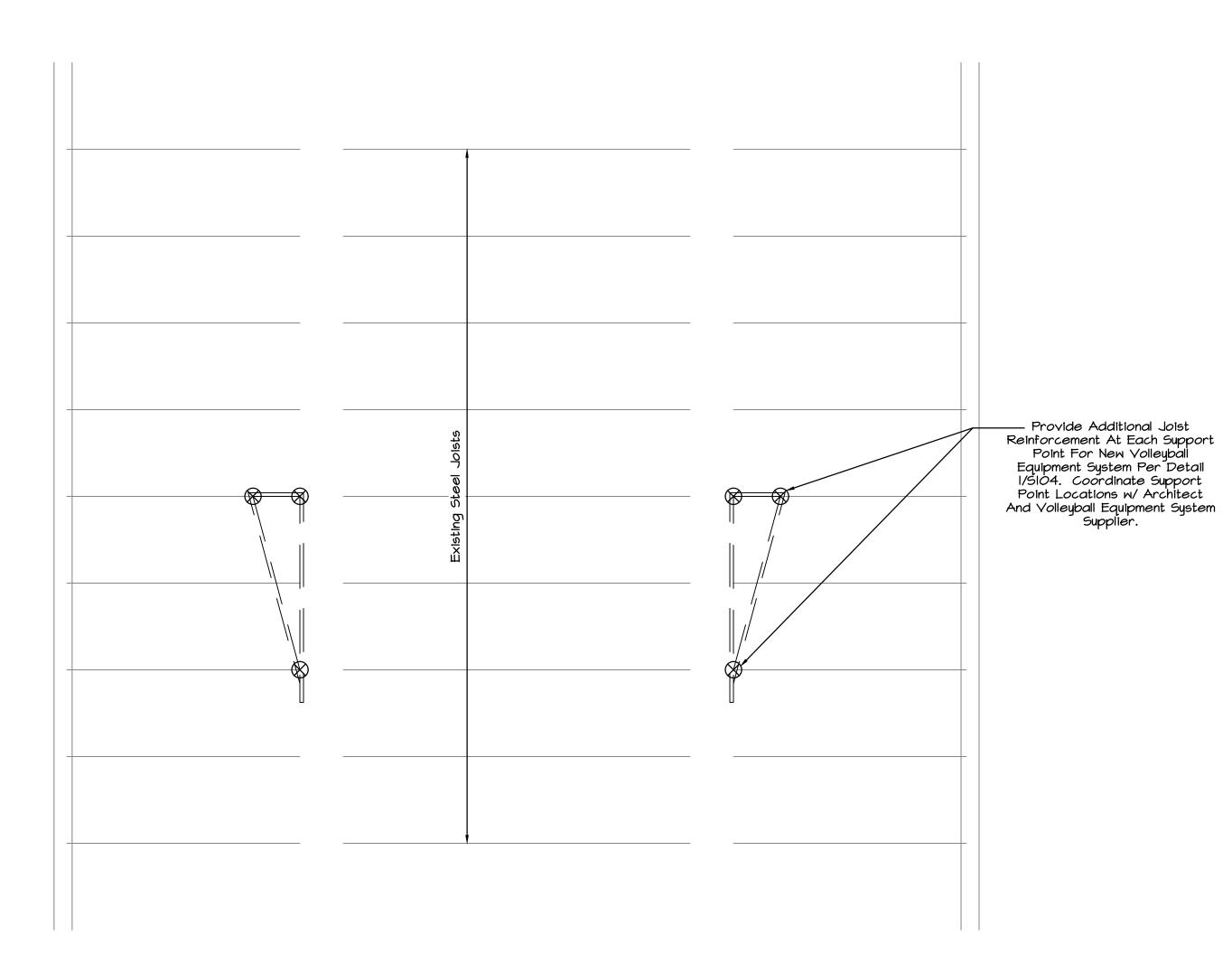
KEYED PLAN NOTES:

- Formed Foundation Wall Stops.
- 2 #4x2-8 Horiz. Dowels Vertically Spaced At 12" o.c.. Drill And Adhere 8" Into Existing Foundation.











5

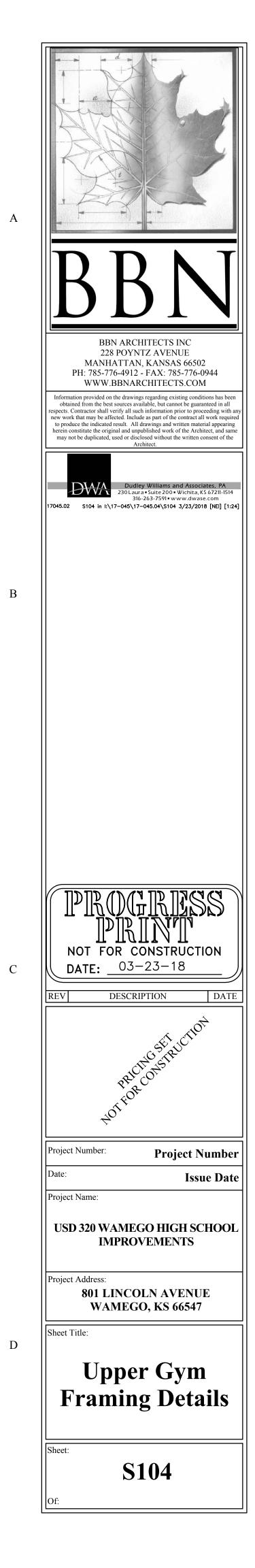
ROOF FRAMING PLAN

_ Additional Top Chord Point Load Existing Steel Joist — Additional Bottom Chord Point Load - 2 - L2x2x¹, Field Weld Between Top And Bottom Chords At All Point Loads Which Do Not Occur At Joist Panel Points.

3

 A maximum single concentrated load of 50 lbs may be applied between panel points without any joist reinforcing.
 For concentrated loads in excess of 50 lbs and up to 400 lbs, reinforce the joist with the angles noted above.

JOIST DETAIL @ POINT LOAD No Scale



GENERAL STRUCTURAL NOTES

General Contractor shall review and stamp all the shop drawings before submitting for revien Field verify all existing dimensions, elevations, and conditions. Notify the Architect for direction if the actual existing conditions differ from the conditions shown or implied

on the drawinas Verify all dimensions and elevations with the Architectural Drawinas. See the Architectural Drawings for the exact dimensions for openings in the walls, roof,

and floor systems. Verify all mechanical opening sizes and locations with the mechanical contractor. Verify all electrical opening sizes and locations with the electrical contractor. No pipes, sleeves, or etc. shall pass through the beams or columns unless indicated on

the plan. Do not hang or attach any architectural, mechanical, or electrical elements or systems from the metal roof deck or any joist bridging unless specifically approved otherwise. The contractor shall design, provide, and maintain temporary bracing, shoring, quying, etc. and other methods as required to prevent any excessive loading and to stabilize the structural elements during construction. These methods shall remain in place until

all members and final connections have been completed. The foundation is designed for an allowable bearing pressure of 3,000 psf as recommended in the Geotechnical Investigation Réport prepared by GSI Engineering, LLC, Job No. 1773023B

The building structural system is designed per the International Building Code - 2012 Edition The contractor shall perform all material testing and inspection requirements for

compliance with the governing building code, the project specifications, the local building inspection department, and the following Structural Special Inspection Notes. Steel joist, structural steel, and metal deck erection shall comply with OSHA Standard 29 CFR Part 1926, Subpart R and all other governing regulations. Steel joist and structural steel suppliers and fabricators shall incorporate the requirements of this standard into the materials fabricated and supplied on this project.

DESIGN LOADS

Building structure is designed for the following loads and criteria:

Building Occupancy Category: III

Dead: Weight of materials and construction plus weight of fixed service equipment

Live Load:	Floor Live Load: First floor general areas:	100 psf
	Roof live load:	20 psf (non-reducible)
Snow:	Ground snow load: Flat-roof snow load: Drifting snow load: Snow exposure factor: Snow load importance factor: Thermal factor:	Pg = 20 psf Pf = 15 psf ASCE 7-10 Ce = 1.0 I = 1.1 Ct = 1.0
Wind:	Basic wind speed (3-second gust): Wind exposure category: Internal pressure coefficient:	Vult = 120 MPH Ultimate Vasd = 93 MPH Nominal C ±0.18
Seismic:	Seismic importance factor: Mapped spectral response acceler	l = 1.25 rations: Ss = 0.159 Sl = 0.058 D
	Site class: Spectral response coefficients:	D Sds = 0.169 Sdl = 0.093
Walls	Seismic Design Category: Analysis procedure: Basic seismic-force res. system:	B B Equivalent lateral force Ordinary Reinforced Masonry Shear
	Response modification factor: Seismic response coefficient: Design base shear:	R = 2 Cs = 0.106 V = 0.106 x W

STRUCTURAL SPECIAL INSPECTIONS

The contractor shall engage one or more qualified independent testing and inspecting agencies to perform the material testing and inspection requirements as outlined in the project specifications and this section.

Testing and inspection reports shall be furnished to the Building Official, the Architect, and the Structural Engineer. Reports shall indicate that the materials tested and the work inspected are in conformance with the Contract Documents. Discrepancies shall be brought to the attention of the Contractor for correction. If the discrepancies are not corrected, the discrepancies shall be reported to the Building Official, the Architect, and the Structural Engineer.

The testing and inspecting agencies shall submit a final report for each type of work stating that any discrepancies noted in the testing and inspections have been corrected and that the structural work was, to the best of their knowledge, performed in conformance with the Contract Documents.

The testing and inspection program does not relieve the Contractor of any responsibility for constructing the project in accordance with the Contract Documents and for controlling the quality of construction.

The Contractor shall be responsible for the scheduling and the timely notification of the testing and inspection agencies of the need for material testing or inspections. All work which requires testing or inspection shall be ready for testing or inspection at the time of the testing and inspecting agency's visit. No work shall be performed which would conceal items to be tested or inspected until the work has been reviewed and accepted.

The following types of work require special inspection (IBC references refer to the International Building Code edition referenced above):

. Inspection of fabricators shall comply with IBC Section 1704.2.5.

2. Testing and inspection of steel construction shall comply with IBC Section 1705.2, IBC Table 1705.2.2, and American Institute of Steel Construction (AISC) Specification for Structural Steel Buildings 360.

- a. Submit material test reports, manufacturer's certifications, product data sheets, welding procedure specifications, welding personnel performance qualification records, fabricator/erector quality control manual, fabricator/erector inspector qualifications as specified. Contractor shall maintain same for review by Architect/Engineer as indicated in AISC 360 Chapter N.
- b. Submit AWS performance qualification records for personnel performing shop fabrication or field erection welding. c. Perform visual inspection of the fabricated or erected steel framing to verify
- compliance with the construction drawings, including member location, bracing, stiffeners, and connection types. d. Perform visual inspection of all shop fabrication and field erection welds.
- e. Perform visual inspection and bend testing of headed stud shear connectors in compliance with AWS DI.I, Section 7.

3. Testing and inspection of concrete construction shall comply with IBC Section 1705.3 and IBC Table 1705.3. a. Perform sampling and testing of cast-in-place concrete as specified.

- b. Perform periodic observation of reinforcing for steel size, cover, spacing, positioning, lap lengths and locations.
- c. Perform inspection of the reinforcing for steel size, cover, spacing, positioning, lap lengths and locations at slabs on grade. d. Perform inspection of concrete placement for proper procedures for
- transporting, placing, consolidating, and finishing of concrete.
- e. Perform periodic inspection of concrete curing and protection procedures, including compliance with the hot and cold weather requirements defined in the specifications.
- f. Contractor shall maintain records of all batch reports and delivery tickets on each load of concrete delivered to the project site for periodic review by the Architect/Engineer.

4. Testing and inspection of masonry construction shall comply with the quality assurance requirements of Section 1.19 Level B and Table 1.19.2 of the TMS 402/ACI 530/ASCE 5 and Section 1.6 Level B and Table 4 of the TMS 602/ACI 530.1/ASCE 6.

- a. Periodically verify the proportions of site prepared mortar and grout. b. Periodically verify the masonry construction complies with the site tolerances
- defined in TMS 602/ACI 530.1/ASCE 6 Section 3.3F. 2. Perform periodic inspection of the mortar joint construction.
- d. Perform periodic inspection of the reinforcing steel grade, type, size, placement and positioning and the block core cleaning and preparation.
- e. Perform continuous inspection of the grout placement for proper consolidation, reconsolidation, and placement of the grout lift heights. Periodically verify the type, size, and location of anchors and embeds for
- anchorage of masonry to other construction. q. Periodically observe the preparation of the mortar specimens per ASTM C780
- and grout specimens per ASTM CIO19 for testing and as specified.

5. Testing and inspection of the soils shall comply with IBC Section 1705.6 and IBC Table 1705.6.

a. Perform sampling, testing, and inspection of the soil type, exposed subgrade, moisture content, lift thickness, and compaction as specified. b. Perform periodic testing and inspection of the soils at the foundation system

- bearing elevation to verify the required soil bearing capacities. 6. Testing and inspection of post-installed anchors and post-installed reinforcing bars shall comply with IBC Section 1705.1.1. a. Perform an initial post-installed anchor and reinforcing bar installation inspection
- for each type and size of post-installed anchor and reinforcing bar. Any change in the personnel performing the post-installed anchor or reinforcing bar installation shall require an initial installation inspection.
- b. Perform periodic post-installed anchor and post-installed reinforcing bar installation inspections during the project to verify that the anchor and reinforcing bar installations continue to be properly performed. Post-installed anchor and reinforcing bar installation inspections shall verify
- anchor/reinforcing bar type, diameter, embedment depth, spacing, adhesive type, hole dimensions, base material, hole cleaning procedures, and adherence to the manufacturer's installation instructions. d. Perform visual observation of all completed post-installed anchor and
- post-installed reinforcing bar installations. e. All post-installed adhesive anchor installations shall be tested to a torque equal
- to a minimum of 75 percent of the anchor manufacturer's defined installation tightening torque. Perform continuous anchor installation inspections for all post-installed anchors
- and reinforcing bars that are installed overhead with the anchor/reinforcing bar in a vertical position.

CAST-IN-PLACE CONCRETE

All concrete shall have the following minimum compressive strengths at 28-days. <u>Зооо ры</u> Footinas Interior Floor Slabs: 3500 psi

All aggregate for normal weight concrete shall meet ASTM C33. Aqqreqates shall be proportioned such that mix design shall contain a minimum of 50% coarse aggregates by gradation requirements set forth in ASTM C33. Coarse aggregate shall meet No. 67 grading requirements. Concrete shall be in strict conformance with the current "ACI Manual of Concrete

Practice". No aluminum shall be placed in the concrete.

Chamfer all exposed edges of the concrete 3/4" Slabs on earth shall be 4 inches thick with 6x6-W2.1xW2.1 welded wire reinforcement

unless otherwise noted.

Contraction joints or construction joints in slabs on grade shall be spaced to divide the slab into panels not to exceed 225 square feet. The longer dimension of each panel shall not exceed the shorter dimension by more than 20 percent. All saw-cut joints in slab on grade floors shall use an early entry dry-cutting sawing system.

REINFORCING STEEL

All welded wire reinforcement (WWR) shall meet ASTM AlO64. Lap splice all welded wire reinforcement the cross wire spacing plus 2 inches. Furnish all welded wire reinforcement in flat sheets.

All reinforcing shall meet ASTM A615 - 60,000. All reinforcing steel shall have adequate coverage as indicated in ACI 318 for the

qiven exposure. Reinforcing shall be continuous and lapped a minimum of 24 inches or 36 bar diameters whichever is greater, unless otherwise noted. Reinforcing shall be detailed according to the ACI Detailing Manual and shall be

prepared under the supervision of a professional engineer licensed to practice in the State of Kansas Provide corner lap bars to match in size and spacing of all wall, trench footing, and

grade beam horizontal bars. Corner bars are not required in the wall footings, unless specifically indicated. Fan main reinforcing around openings in the structural members. Do not field cut bars

unless the Architect's approval is obtained. Provide 2-#5, 4'-0" longer than opening dimension, on all sides of the openings in the slabs and walls.

Provide 250 pounds of extra bars of various sizes to be used as directed. Include labor for placing same. Provide 3-inch slab bolster with continuous bottom plate at 4'-O" maximum centers for

positioning all footing bottom bars. Provide bar supports for all bars in slabs cast on grade at a maximum of 4'-O" in each direction

Mark each bundle of the reinforcing with weatherproof tags.

CONCRETE MASONRY

All concrete masonry units (CMU) shall be made of lightweight concrete aggregate U.N.O., and shall meet ASTM C90. All 8" concrete masonry units shall have a minimum compressive strength of 1900 psi on the net area at 28-days and a net area compressive strength of masonry of 1500 psi. All 12" concrete masonry units shall have a minimum compressive strength of 2800 psi on the net area at 28-days and a net area compressive strength of masonry of 2000 psi. All mortar for use in concrete masonry shall conform to ASTM C 270, Type S.

Provide vertical CMU reinforcement as indicated on the plan and sections. Bars for typical lift shall be shop cut for 4'-0" lifts plus a minimum 48 bar diameters lap. Field cut bars for top lift and non-typical lengths. Provide dowels from the foundation to match in size and spacing of all vertical CMU

reinforcement. Provide at least one vertical rebar at each end, side of control joints, jambs, corner, and intersection of all load bearing and exterior CMU walls. Size of rebar is to

match the size of typical vertical reinforcing. If the wall does not contain any vertical CMU reinforcing, provide I-#4 vertical at the described locations. Grout all reinforced vertical block cores and bond beams with minimum 2500 psi grout. Grout shall conform to ASTM C 476.

Provide 2-#4's continuous for all bond beams unless otherwise indicated on the plan. Furnish in shop lengths and field cut. See the plans (including architectural), sections and notes for the locations Provide one corner bar to match each horizontal bond beam.

Provide an 8-inch deep bond beam at the top of all interior and exterior CMU walls, unless detailed otherwise.

Provide horizontal joint reinforcing in all concrete masonry unit walls at 16 inches o.c. unless noted otherwise. Provide vertical masonry reinforcing galvanized bar positioners at 48 inches o.c. at

each vertical reinforcing bar. Provide bar positioners to match the wall thickness, bar size, and bar position as required. Provide masonry control joints at a maximum spacing of 24'-O" o.c. unless noted or

shown otherwise Coordinate all control joint locations with the Architect/Engineer. Control joints shall not occur below or directly adjacent to the joist, beam or lintel bearing points. Fill all beam and joist bearing pockets in masonry walls solid with grout. Provide temporary forms on the inside or exposed face of the wall flush with the face of the wall'to retain grout placement.

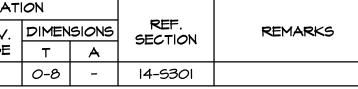
All lintels shall be built into the masonry walls over wall openings as the wall is being constructed. Closely coordinate the location and elevation of all openings in the masonry walls with the architectural, mechanical, and electrical drawings.

WALL FOOTING AND FOUNDATION SCHEDULE

MARK			FOOTING	FOUNDA		
MARK	TYPE	ELEV. TOP	NIDTH N	DEPTH D	ELEV. TOP	ELEV. LEDGE
M	I	97-0±	1-6	I-0	101-4	-

<u>Elev Top Fdn</u> Elev Top Ftg . W

<u>Type I</u> Foundation Wall Types



STRUCTURAL STEEL

Structural steel shall meet the latest AISC "Specification for Structural Steel

Buildinas. Steel framing members shall only be spliced at locations shown on the design drawings or as shown on and approved on the shop drawings. Structural steel shop drawings shall be prepared under the supervision of a professional engineer licensed to practice in the State of Kansas. All steel plates and shapes shall meet ASTM A36 except wide flange sections shall

meet ASTM A992, Fy = 50 ksi. All headed studs and shear connectors shall meet ASTM AlO8and A29, Grade 1015-1020, and AWS D1.1, Type B.

Welding shall conform to AWS DI.I, "Structural Welding Code - Steel". All welds shall be AWS prequalified welded joints. No unauthorized welds will be accepted. E70xx electrodes shall be used for all welding, U.N.O.. Steel lintels shall be provided over all the openings in the masonry walls, unless otherwise detailed.

See Lintel Schedule for lintel requirements indicated on the drawings. Not all masonry openings that require lintels are shown on the structural drawings. Refer to the architectural and mechanical drawings for the size and location of additional openings in the masonry walls.

Galvanize all'steel lintels in exterior masonry walls.

Provide solid grouted masonry units below bearing of all lintels, beams, or etc. Grout block cores with 2500 psi grout. Galvanized structural steel shall conform to ASTM A123 for members and ASTM A153 for connection elements.

Hot-dip galvanize steel framing members as specified where specifically noted on the drawings. Provide venting relief holes as required, but locate on the bottom side or at similar non-visible locations where the members are exposed on the exterior of the building. Show or note the locations of venting holes on the shop drawing submittal

POST-INSTALLED ANCHORS

All post-installed anchors and post-installed reinforcing bars shall be installed per the manufacturer's installation instructions. All holes shall be drilled per the manufacturer's instructions with the required bit type and size to provide the minimum embedment length specified in the Structural drawings. All holes shall be cleaned prior to installing the anchor or reinforcing bar per the manufacturer's instructions with the brush and compressed air method or with the self-cleaning Hilti Safe Set Technology method using Hilti Hollow Drill Bit and Vacuum System. The installation of all post-installed anchors and post-installed reinforcing bars shall be performed by personnel trained and certified by the American Concrete Institute/Concrete Reinforcing Steel Institute or trained by the post-installed anchor and/or adhesive manufacturer for the type of anchor or reinforcing bar being

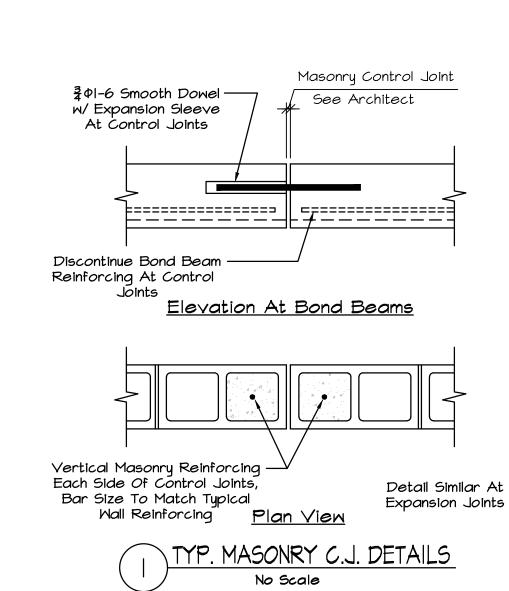
post-installed. Expansion anchors installed into concrete shall be wedge anchors equal to Hilti Kwik Bolt TZ Stud Anchor or Simpson Strong-Tie Strong-Bolt 2. Expansion anchors installed into solid grouted masonry shall be wedge anchors equal

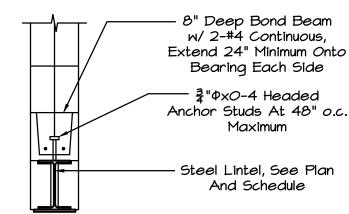
to Hilti Kwik Bolt 3 Stud Anchor. Adhesive anchors or reinforcing bars installed into concrete shall use Hilti HIT-HY 200 Adhesive Anchoring System or an approved equal. Adhesive anchors or reinforcing bar's installed into solid grouted masonry, hollow block

masonry, or brick masonry shall use Hilti HIT-HY 70 Adhesive Anchoring System or an approved equal. A piston plug injection procedure approved by the adhesive manufacturer shall be used for the injection of adhesive into all holes greater than 10 inches in depth.

Simpson Strong-Tie SET-XP, Simpson Strong-Tie AT-XP, and Hilti HIT-RE 500 V3 are approved equal adhesive anchoring systems for adhesive anchors or reinforcing bars installed into concrete. Simpson Strong-Tie SET-XP is an approved equal adhesive anchoring system for adhesive anchors or reinforcing bars installed into solid grouted masonry.

All post-installed expansion anchors must be tightened to the anchor manufacturer's recommended installation torque. The installation of all post-installed anchors and post-installed reinforcing bars shall be reviewed and accepted by the field testing and inspection agency.



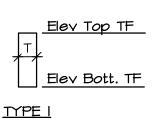




TRENCH FOOTING SCHEDL ELEV. ELEV. MARK MPE BOTT TOP TFI 96-0± | 100-0 98-4 | 100-0 TF2 TF3 97-8 99-4 TF4 97-0± | 101-4 99-8 TF5 101-4 TF6 99-8 101-4 99-8 TF7 101-4

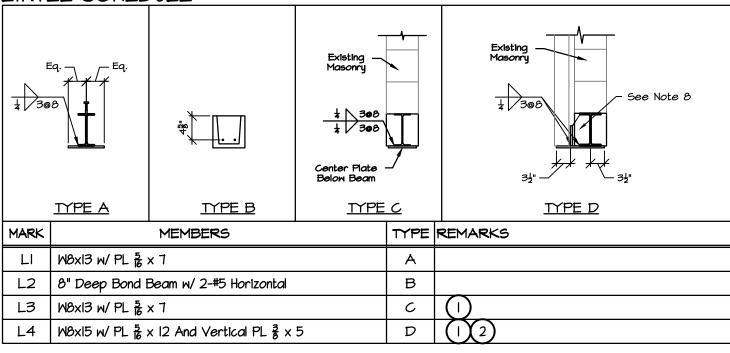
TRENCH FOOTING SCHEDULE REMARKS:

(I) Bottom of Footing to Align w/ Existing Adjacent Bottom of Footing.



TRENCH FOOTING TYPES

LINTEL SCHEDULE

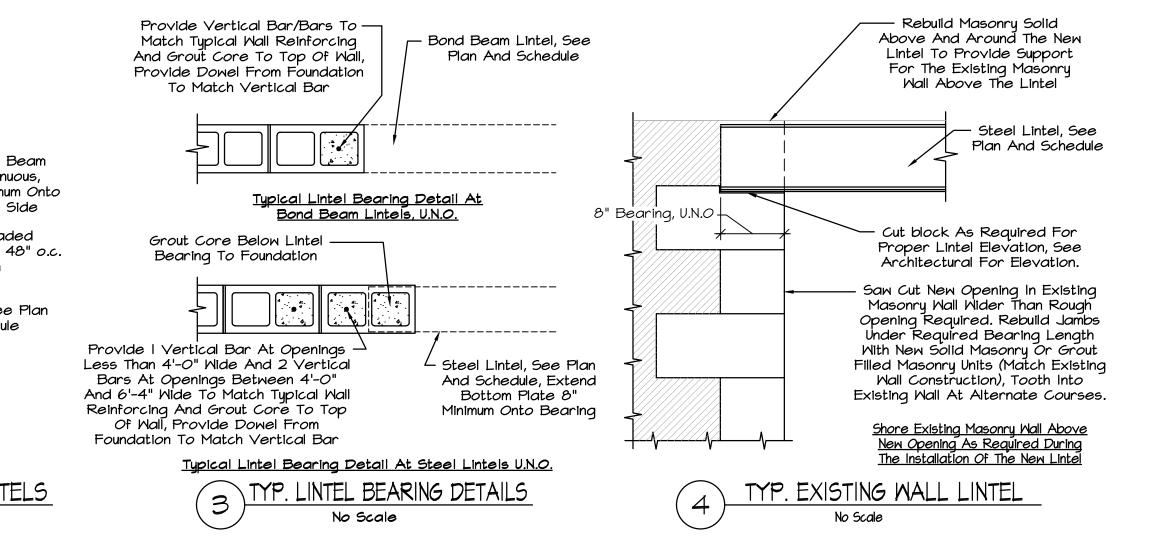


LINTEL SCHEDULE REMARKS:

- notes and details.
- (2) Galvinize assembly

LINTEL SCHEDULE NOTES:

- Bearina.
- Non-Bearing Walls With A Maximum Opening Width Of 3'-4", U.N.O.
- Block Walls With A Maximum Opening Width Of 6'-4", U.N.O.
- Which Are Not Shown On Plans.
- Additional Notes And Information.



LΕ				
ELEV.	DIMEN	SIONS	REF.	
LEDGE	т	A	SECTION	REMARKS
-	2-0	1	5-5301	
-	1-6	-	6-5301	
-	-4	١	7-5301	
-	1-4	-	8/10-5301	
-	1-4	-	7-5301	
-	2-0	-	15/16-5301	
-	1-8	-	7-5301	Similar
< 6 .				

(1) Remove existing masonry as required to install new lintel. Rebuild jambs with new masonry and grout cores solid below bearing. Tooth new masonry into existing masonry wall. Extend lintel and bottom plate a minimum of 8" onto CMU bearing at each end of new lintel, unless noted otherwise. See detail 4-5201 for

I. Provide A Minimum Of 8" Bearing On Concrete Masonry At Each End Of Steel Lintel. Grout Cores Solid Below Bearing. At Locations Where Steel Lintels Bear Perpendicular To An 8" Wall, Provide 6"

2. Provide Lintel L2 At Architectural, Mechanical, And Electrical Openings In 8" Interior Masonry Block,

3. Provide Lintel LI At Architectural, Mechanical, And Electrical Openings In Interior Masonry Block Walls With A Maximum Opening Width Greater Than 3'-4" And Less Than Or Equal To 6'-4".

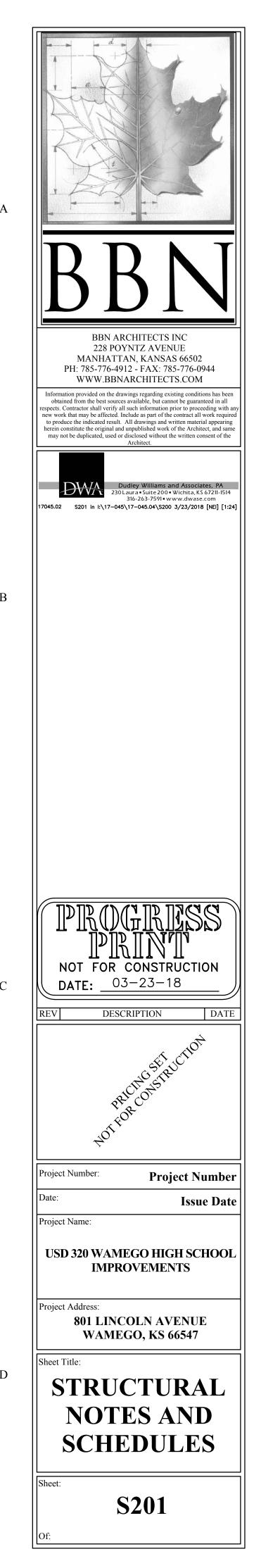
4. Provide Lintel L3 At Architectural, Mechanical, And Electrical Openings in Existing Interior Masonry

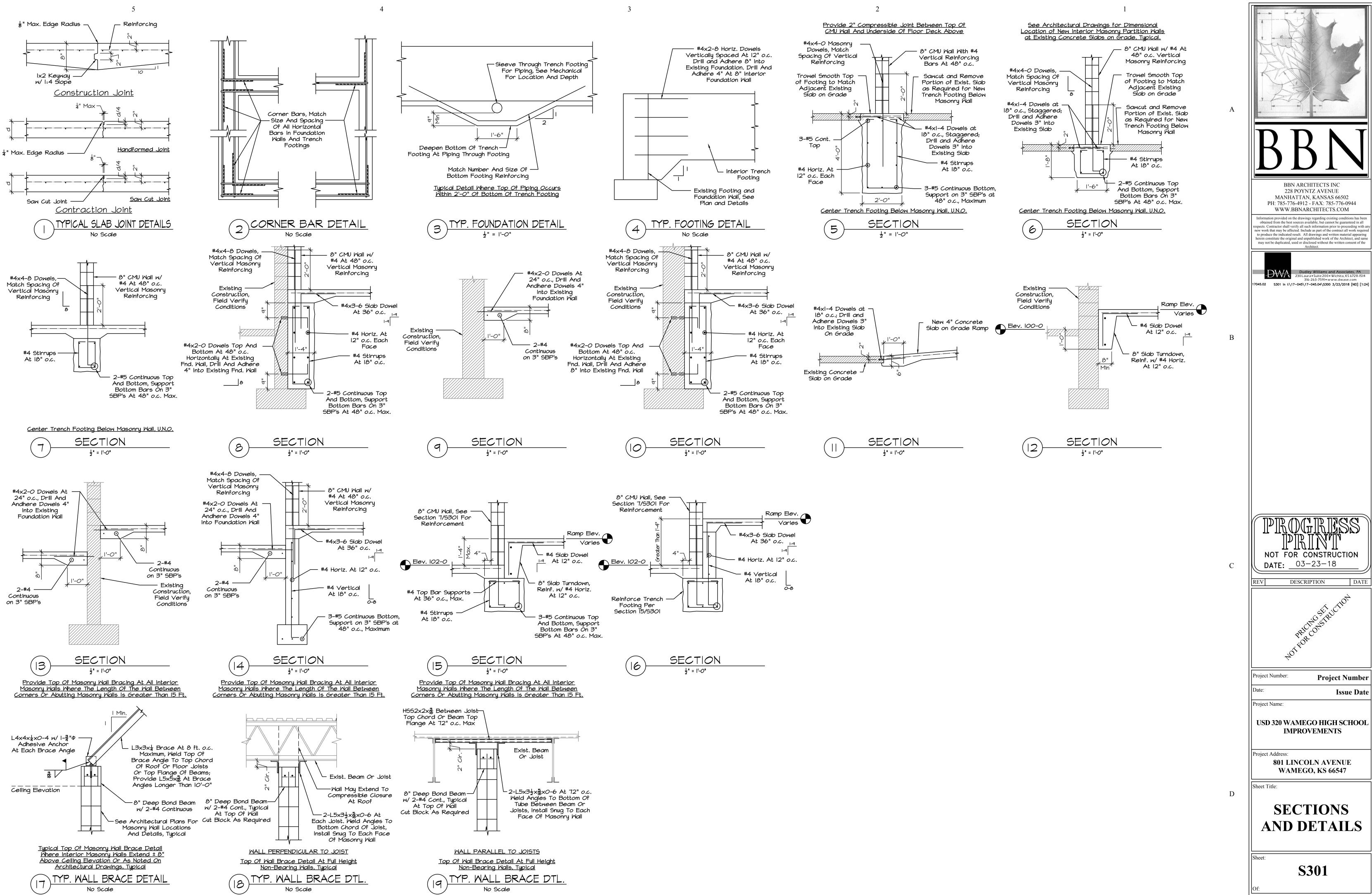
5. Provide Lintel L4 At All Openings 6'-4" Or Less In Width In Existing Exterior Masonry Walls. Notify Arch./Engineer Of Any Openings Greater Than 6'-4" In Width At Existing Exterior Masonry Walls

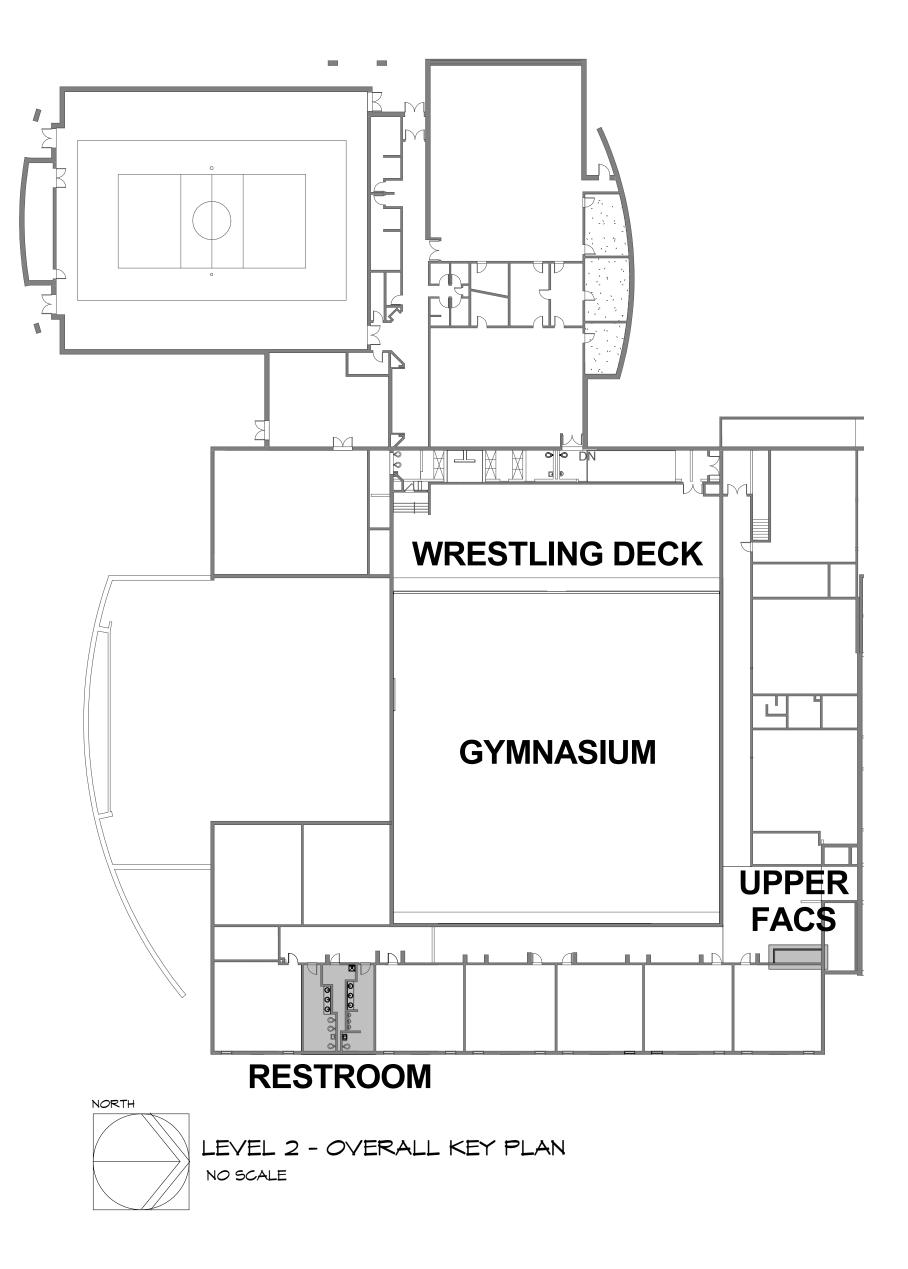
6. Not All Lintels Required Are Shown On Structural Drawings. Refer To Architectural And Mechanical Drawings For Locations Of Additional Lintels. DO NOT Locate Any Mechanical Openings Directly Below Beam Bearing Plates Unless Specifically Approved Otherwise.

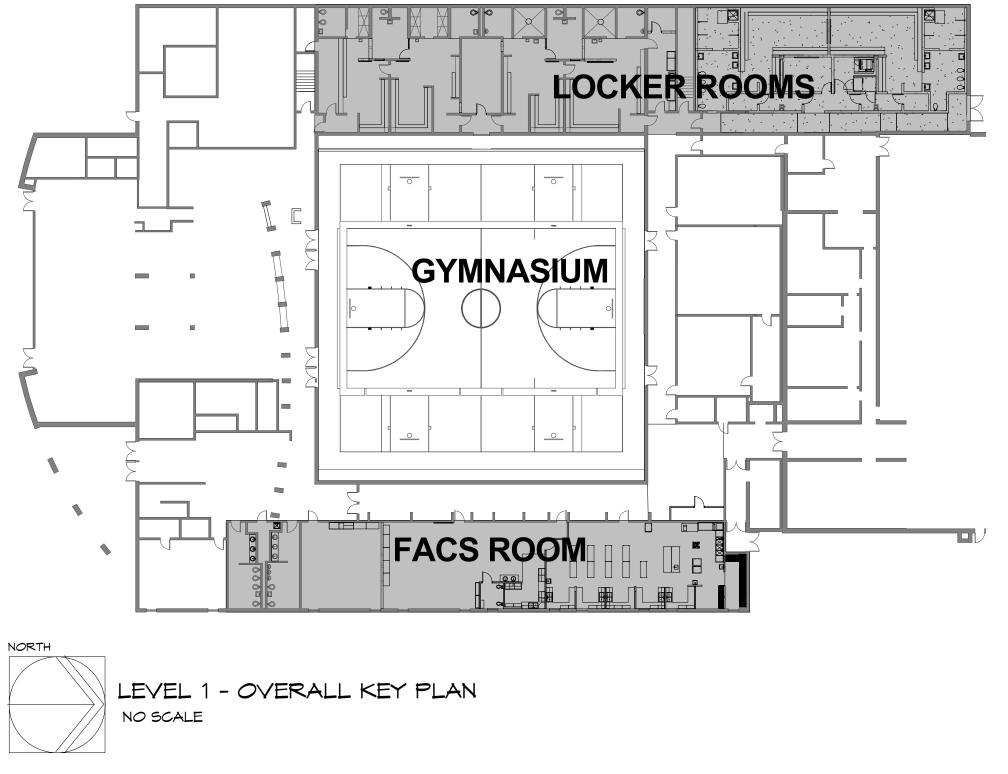
7. All Masonry Lintels Are To Extend 24" Beyond Jambs, Except Extend To Corner At Locations Where Corner Occurs 24" Or Less From Jamb. Provide Bond Beam And Corner Bar At Perpendicular Wall At Corners. Grout Cores Solid Below Lintel Bearing. See Detail 3-S201 For

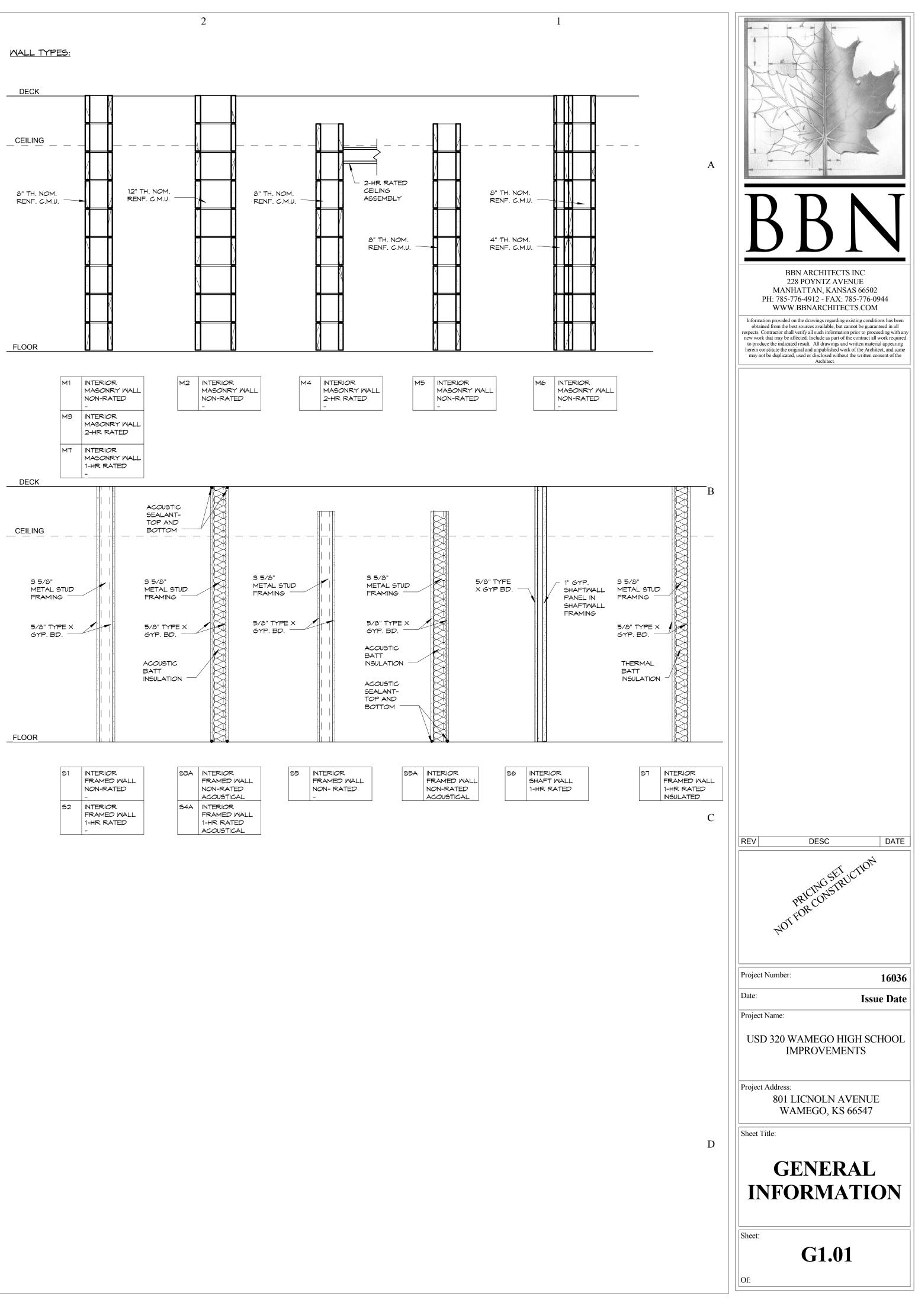
8. 🐉 Stiffener Plates On The Masonry Veneer Side Of Steel Beam Web. Locate Stiffener Plates 4" From Each End Of Lintel And Equally Spaced At Maximum 48" o.c. between, U.N.O.

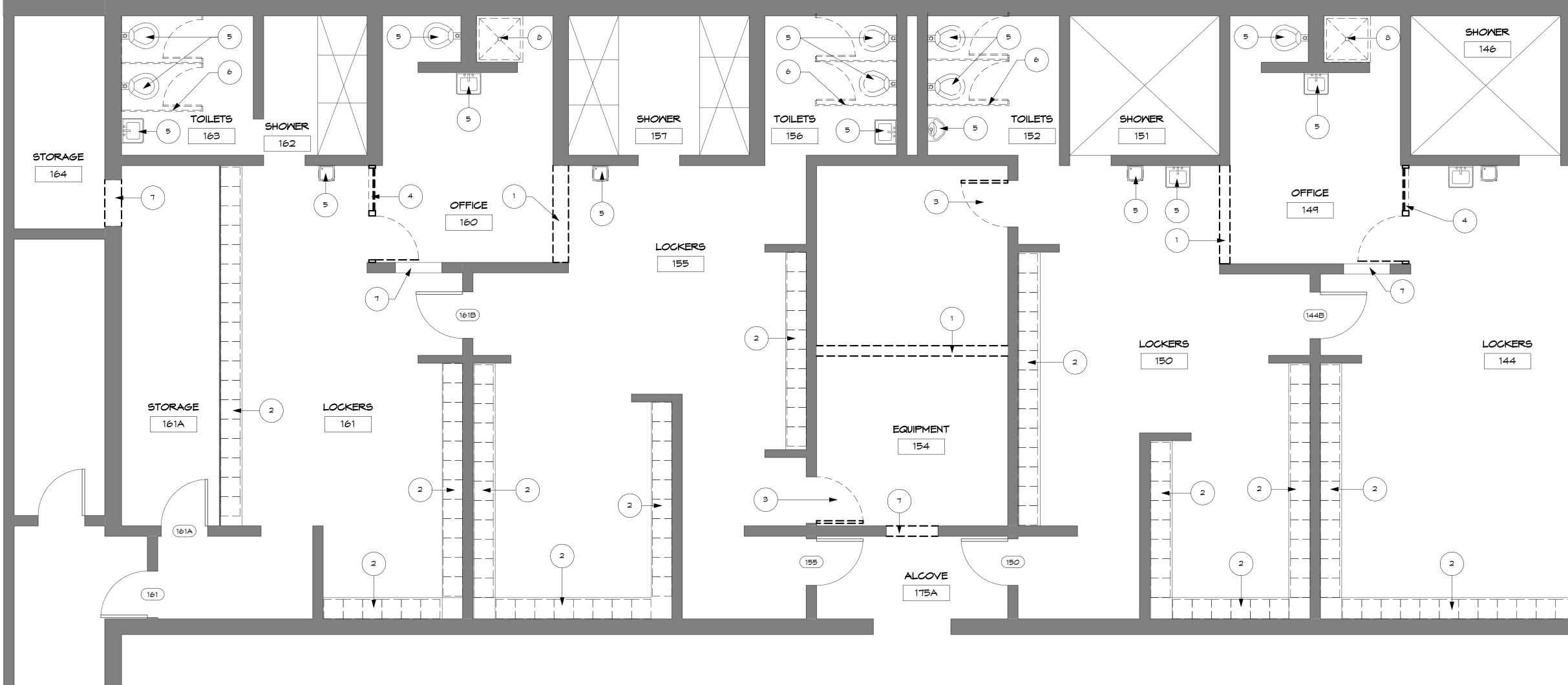






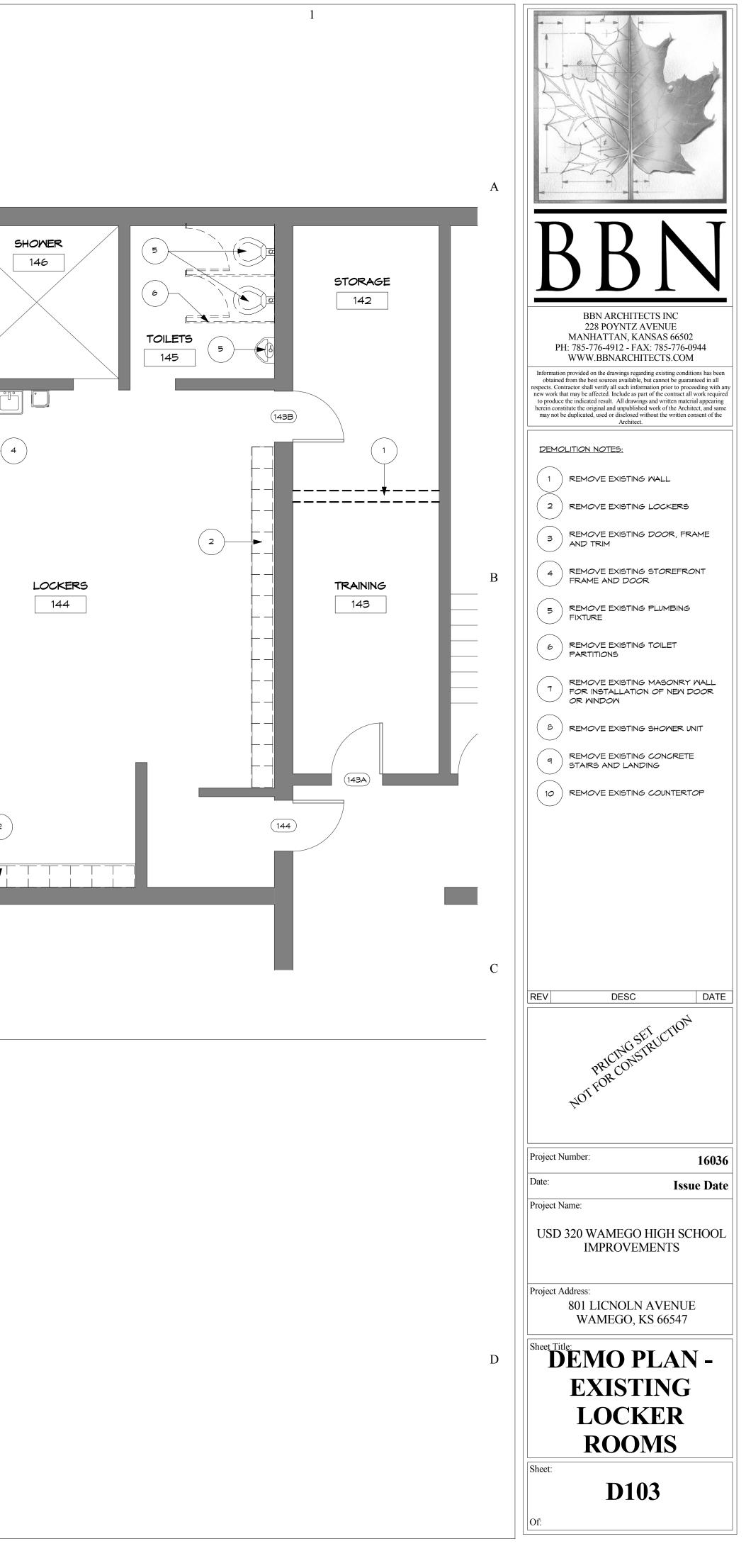


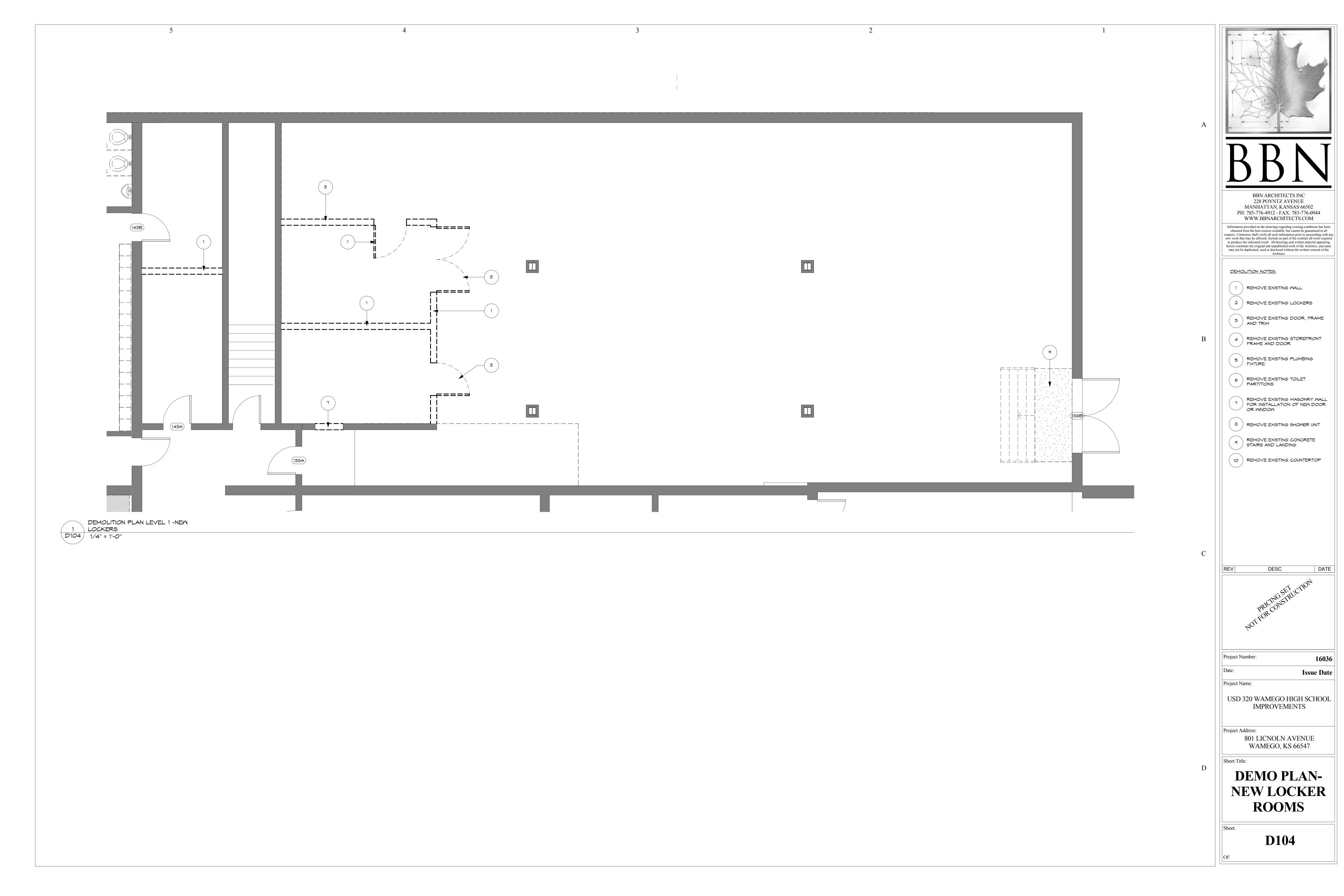




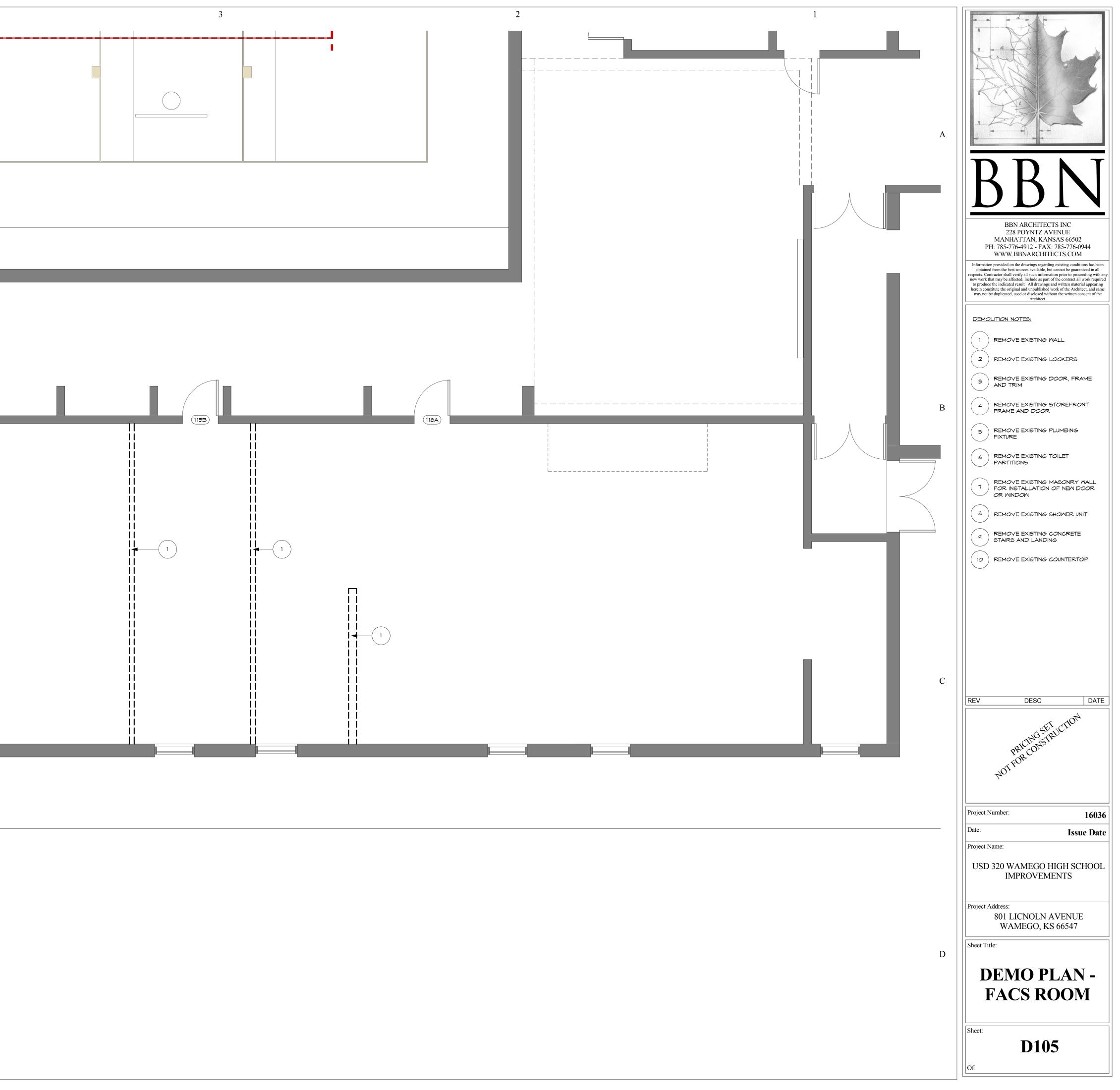


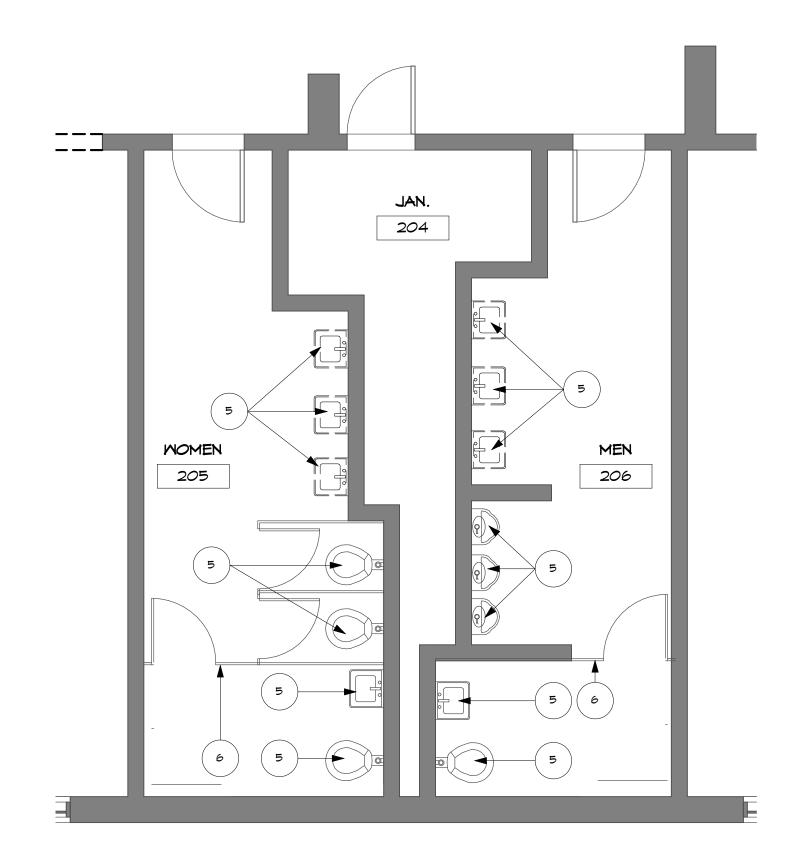
DEMOLITION PLAN - EXISTING P.E. 1 LOCKERS D103 1/4" = 1'-0"



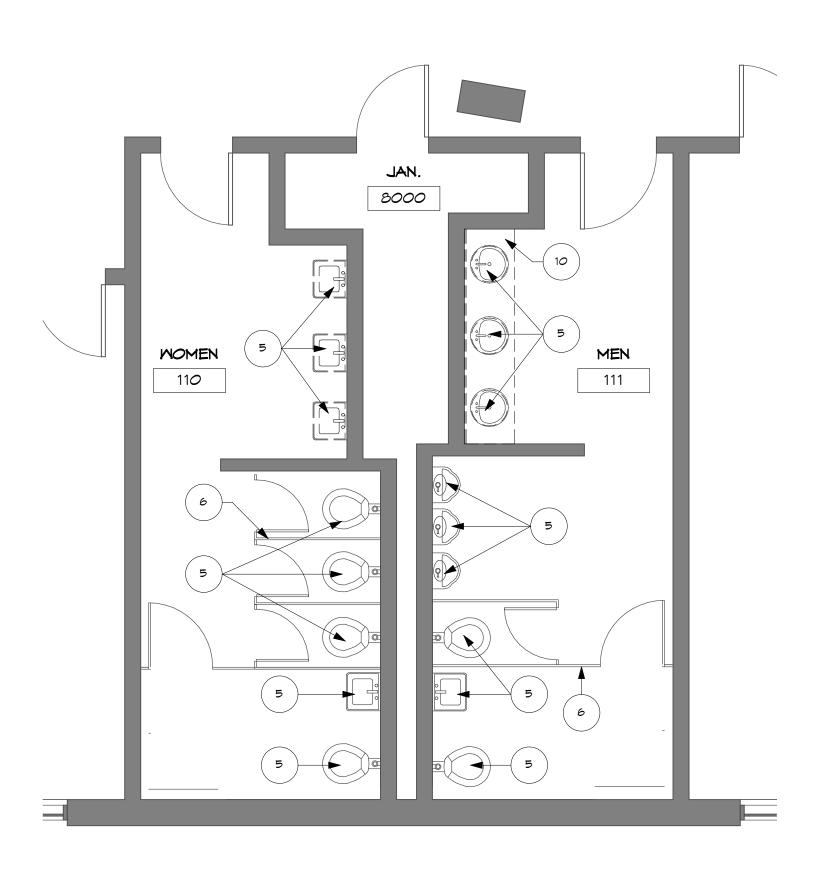


			5			4	
1 D105	DEMOLITION PLANLE 1/4" = 1'-0"	EVEL 1 - FACS					

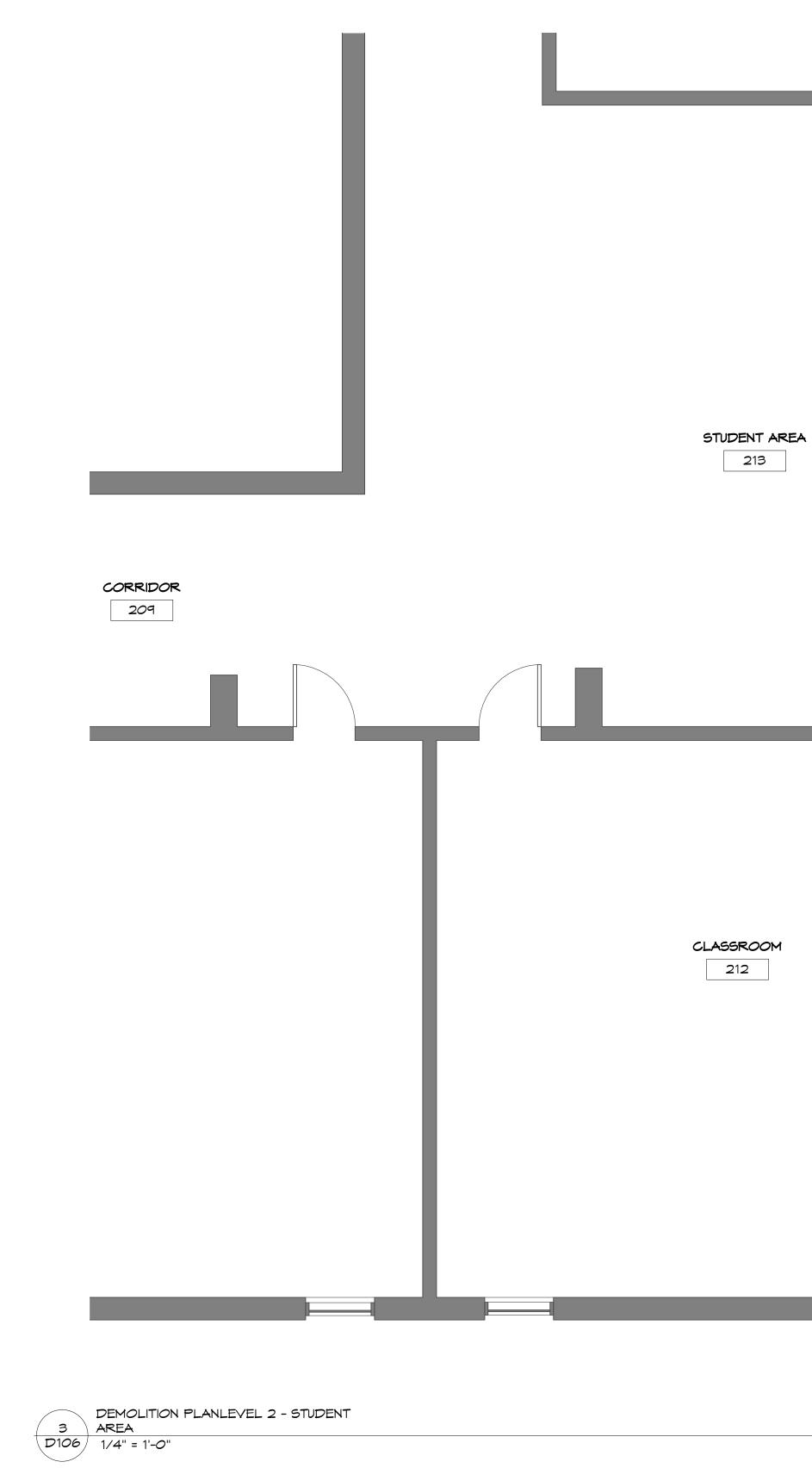




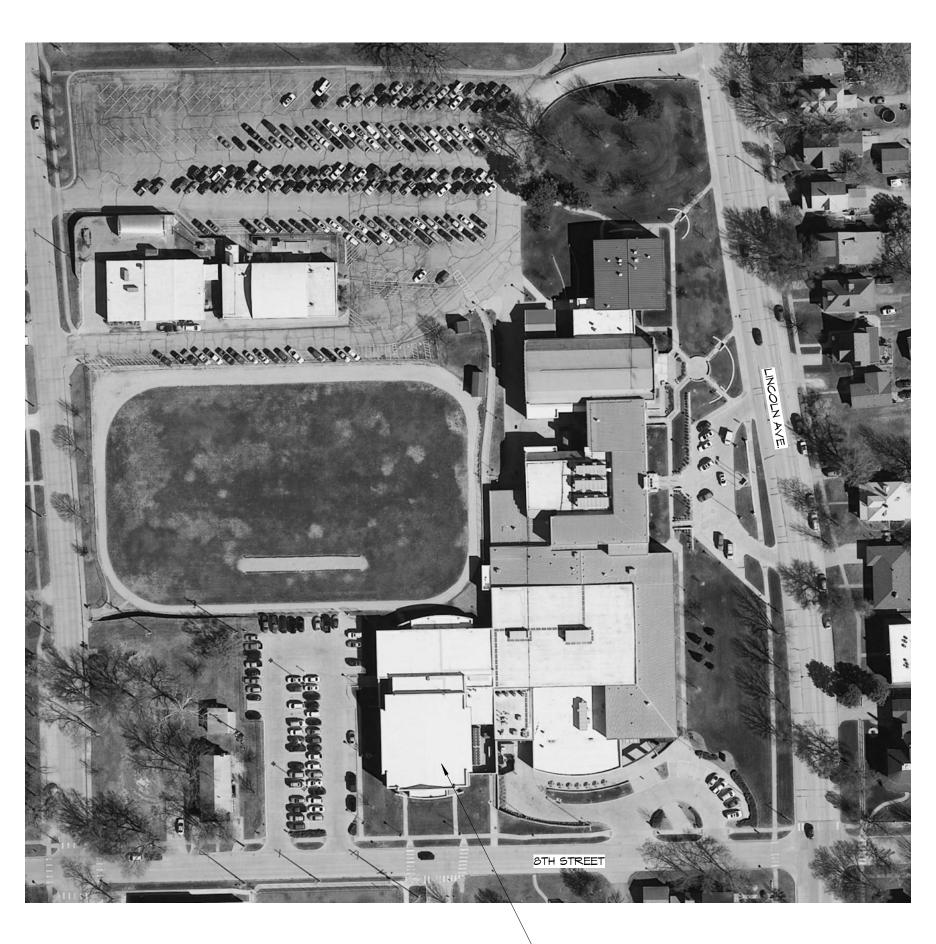








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BBN ARCHITECTS INC 228 POYNTZ AVENUE MANHATTAN, KANSAS 66502 PH: 785-776-4912 - FAX: 785-776-0944 WWW.BBNARCHITECTS.COM Information provided on the drawings regarding existing conditions has been obtained from the best sources available, but cannot be guaranteed in all respects.Contractor shall verify all such information prior to proceeding with any new work that may be affected. Include as part of the contract all work required to produce the indicated result. All drawings and writem material appearing herein constitute the original and unpublished work of the Architect, and same may not be duplicated, used or disclosed without the written consent of the Architect. DEMOLITION NOTES: (1) REMOVE EXISTING MALL (2) REMOVE EXISTING MALL (3) REMOVE EXISTING LOCKERS (3) REMOVE EXISTING DOOR, FRAME AND TRIM (4) REMOVE EXISTING STOREFRONT FRAME AND DOOR (5) REMOVE EXISTING PLUMBING FIXTURE
6 REMOVE EXISTING TOILET 7 REMOVE EXISTING MASONRY WALL FOR INSTALLATION OF NEW DOOR OR WINDOW 8 REMOVE EXISTING SHOWER UNIT 9 REMOVE EXISTING CONCRETE 5 STAIRS AND LANDING 10 REMOVE EXISTING COUNTERTOP
C REV DESC DATE REV DESC DATE PRICING STRUCTION PRICING STRUCTION NOT FOR CONSTRUCTION NOT FOR CONSTRUCTION NOT FOR Date: 16036 Date: Issue Date Project Name: USD 320 WAMEGO HIGH SCHOOL
D Project Address: 801 LICNOLN AVENUE WAMEGO, KS 66547 Sheet Title: DEMOLITON PLANS - RESTROOMS Sheet: D106 Of:

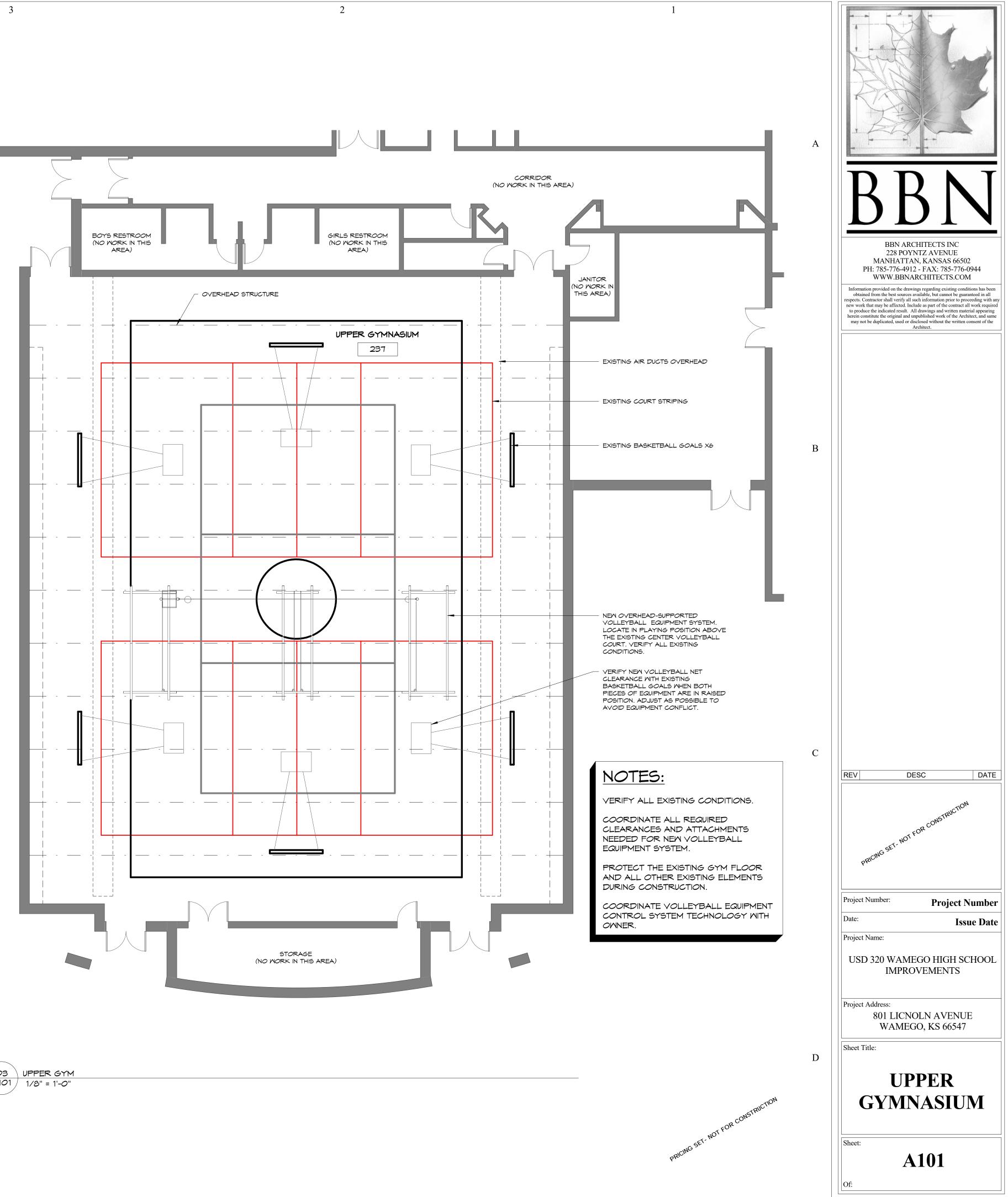


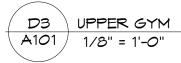


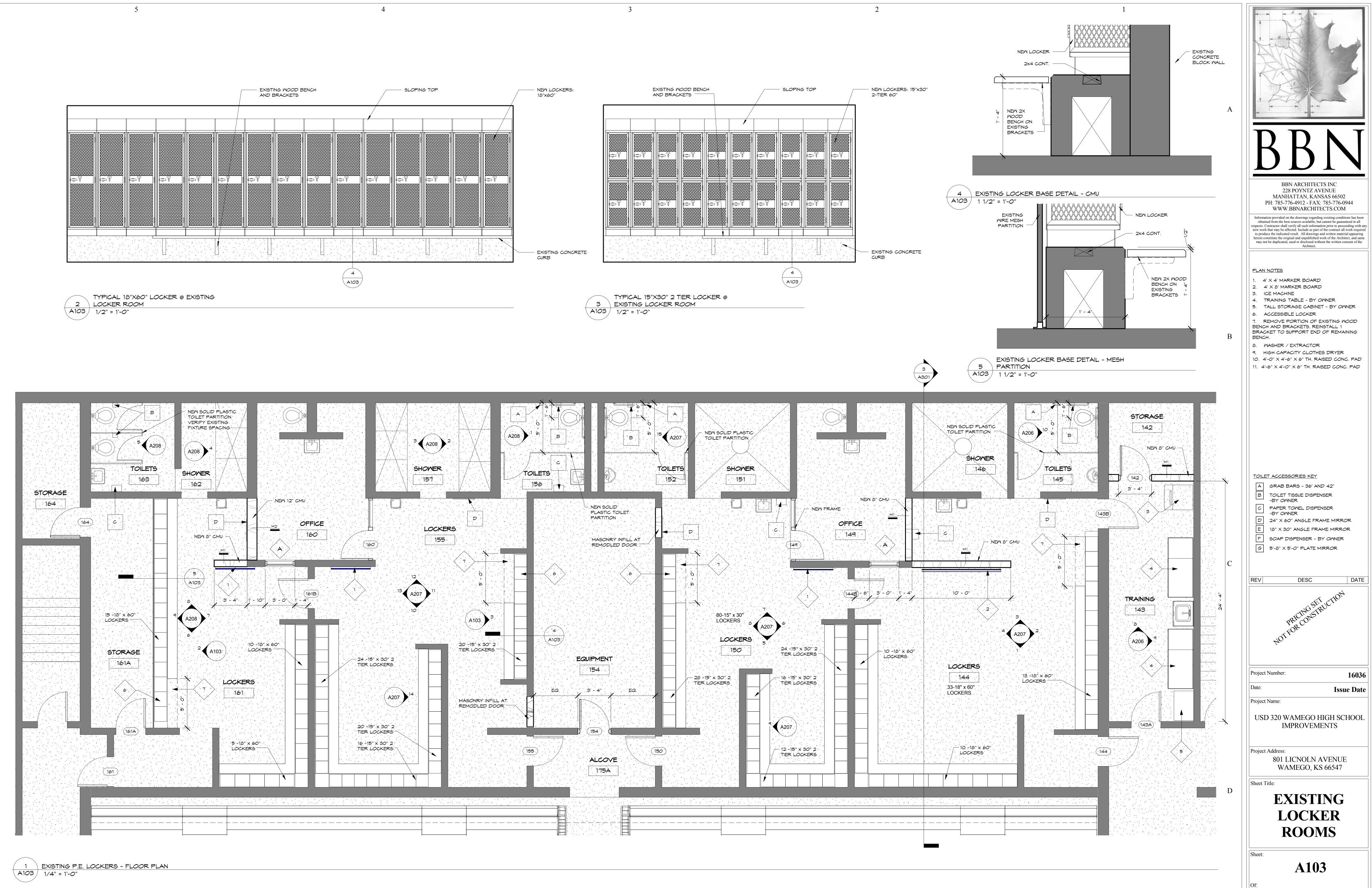
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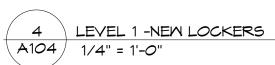
AERIAL SITE PLAN 1" = 100'-0"

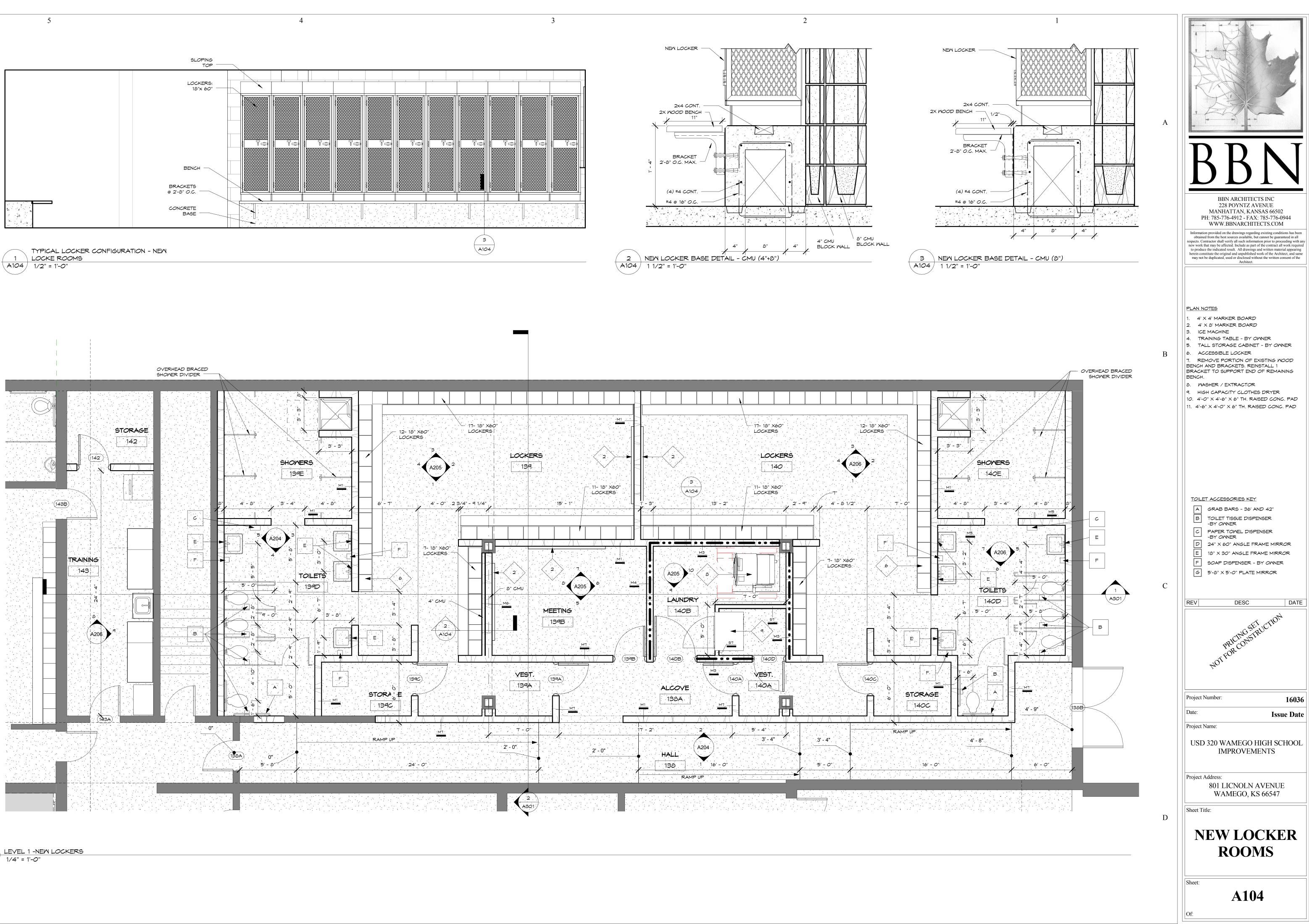
UPPER GYMNASIUM LOCATION

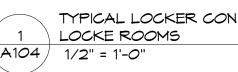


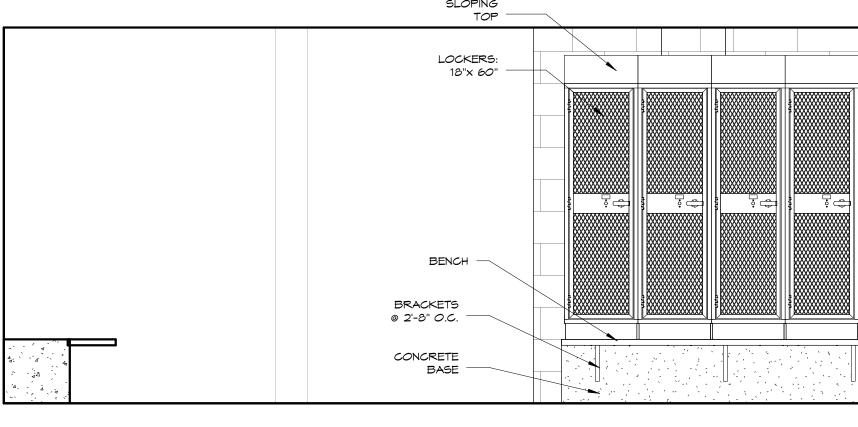


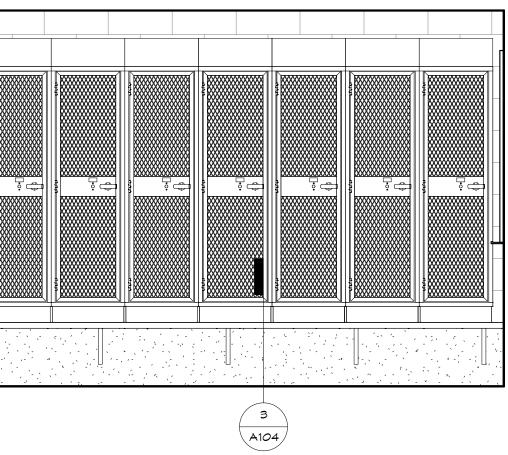


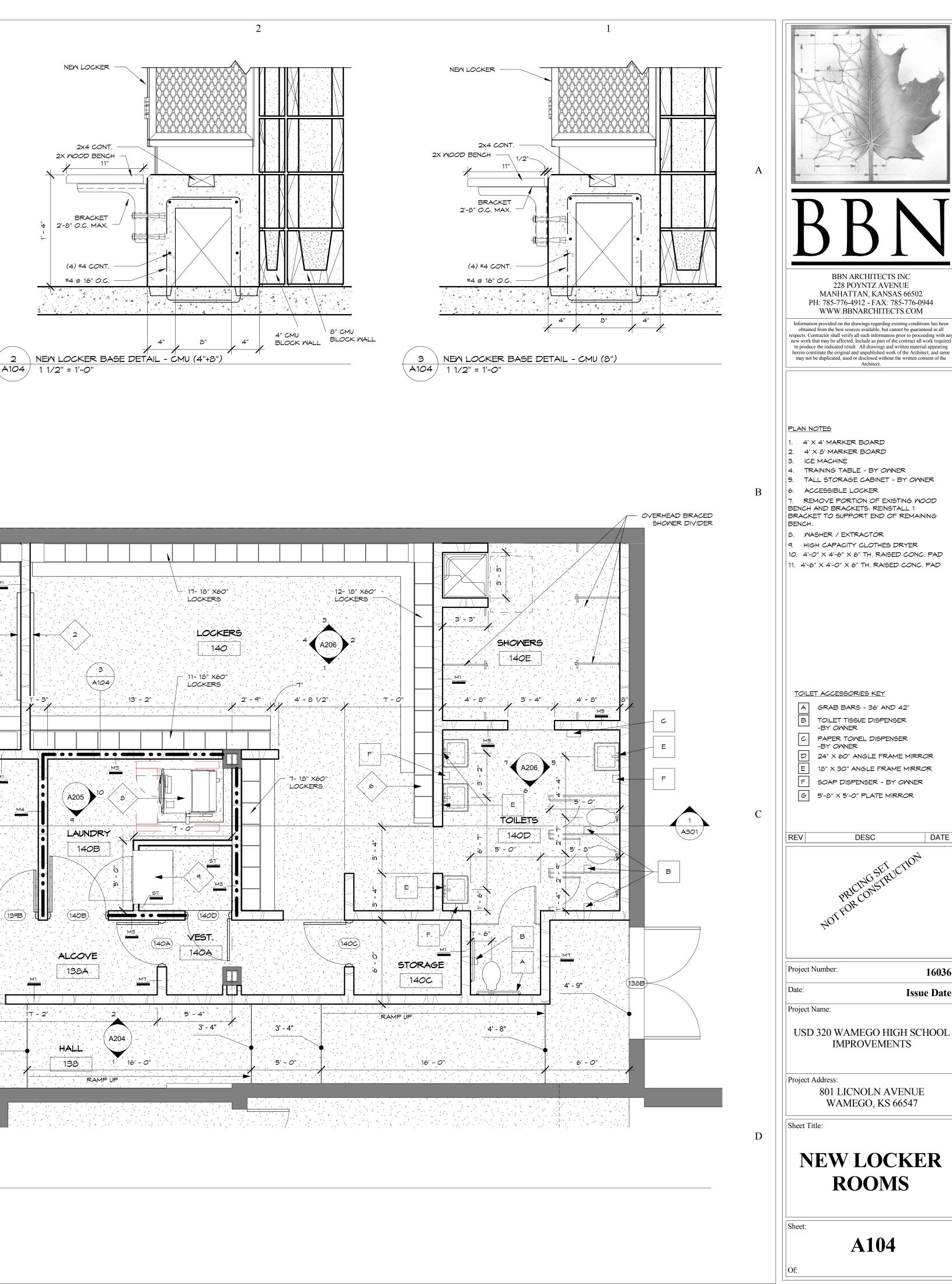


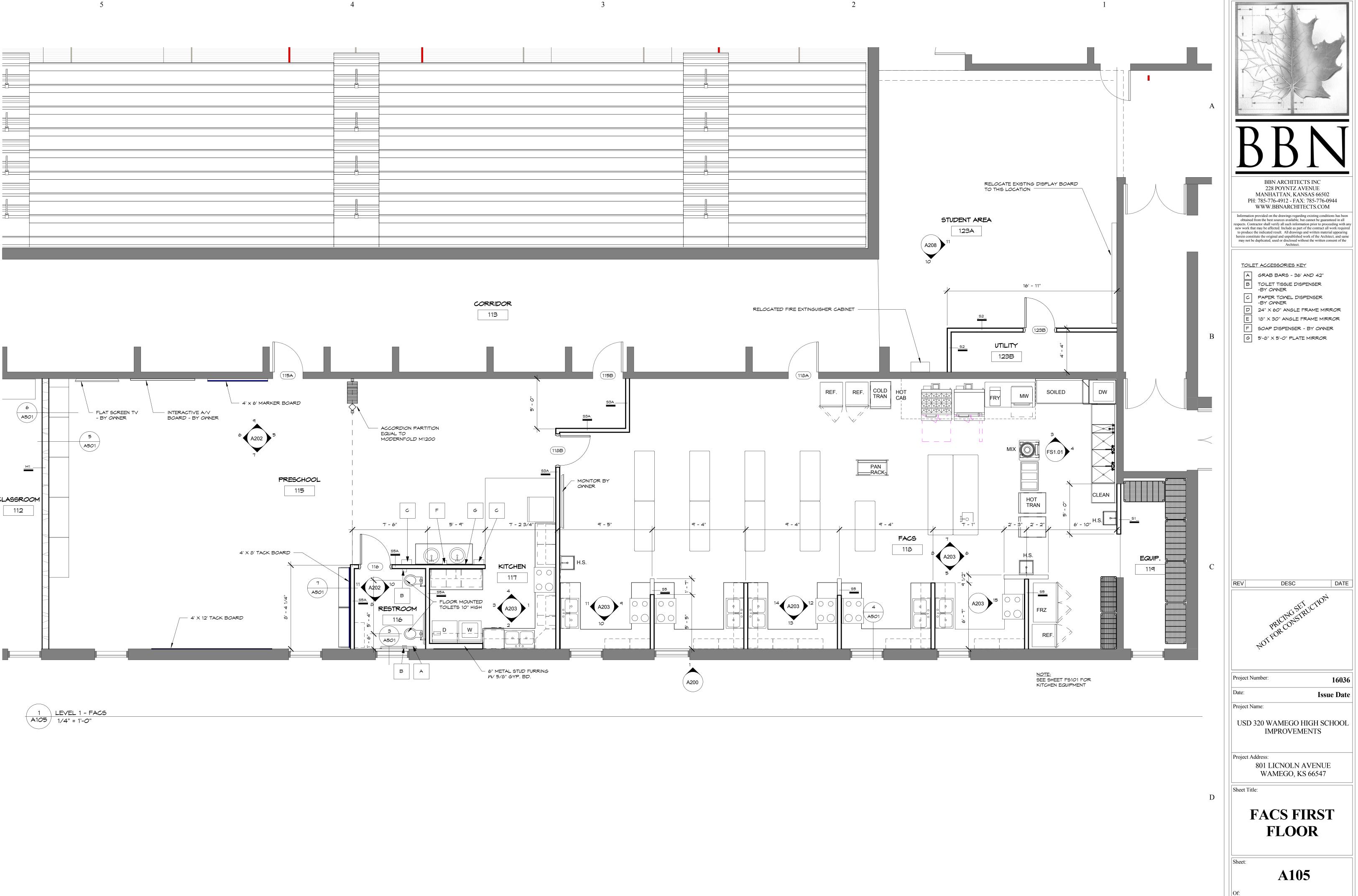


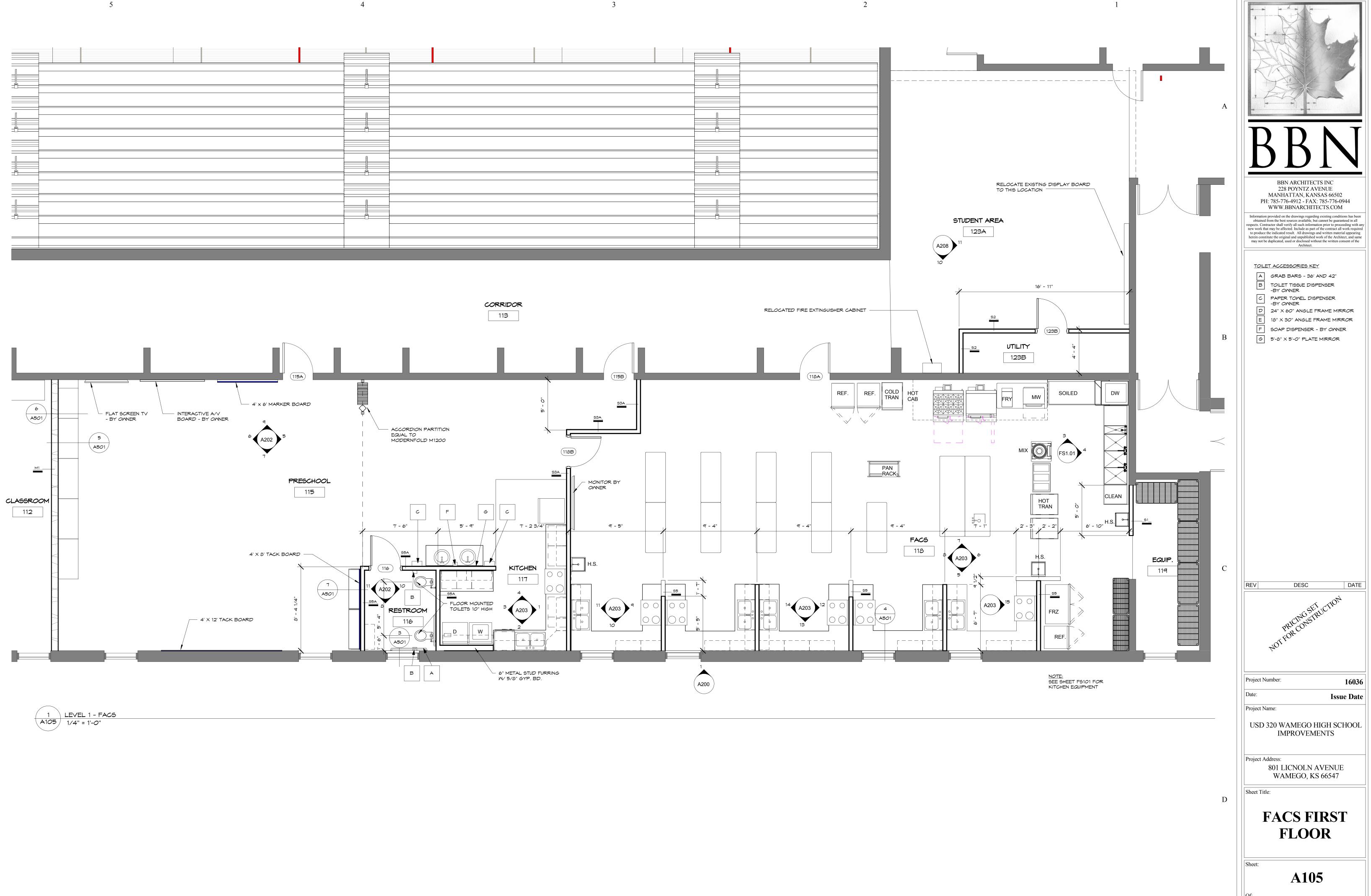


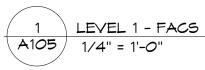


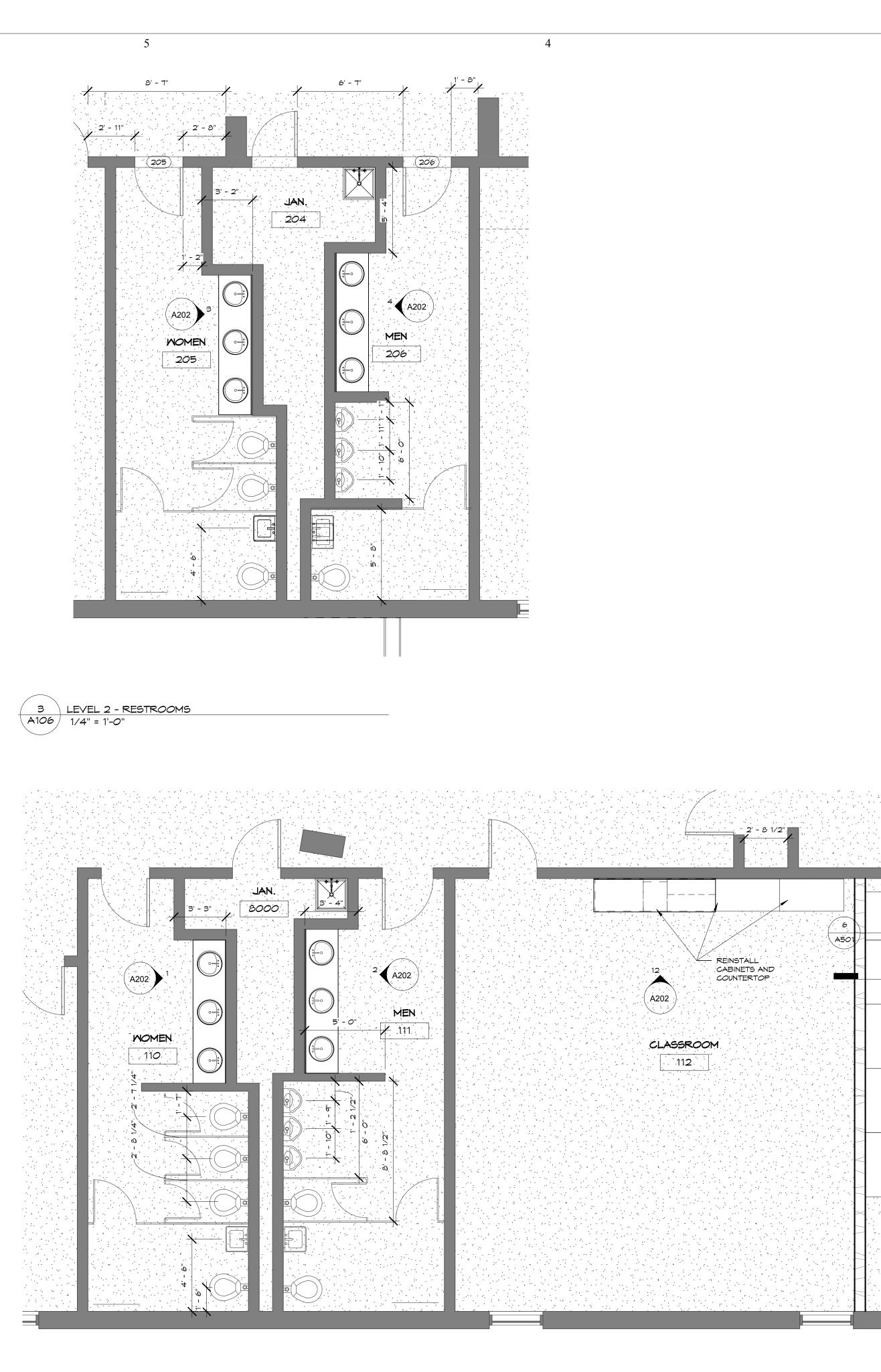




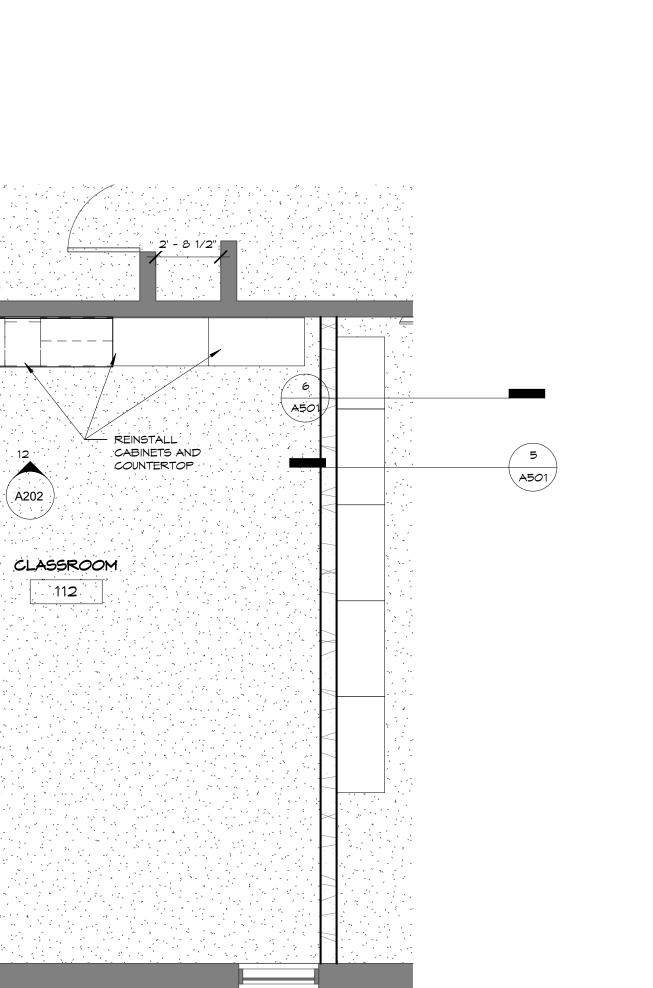


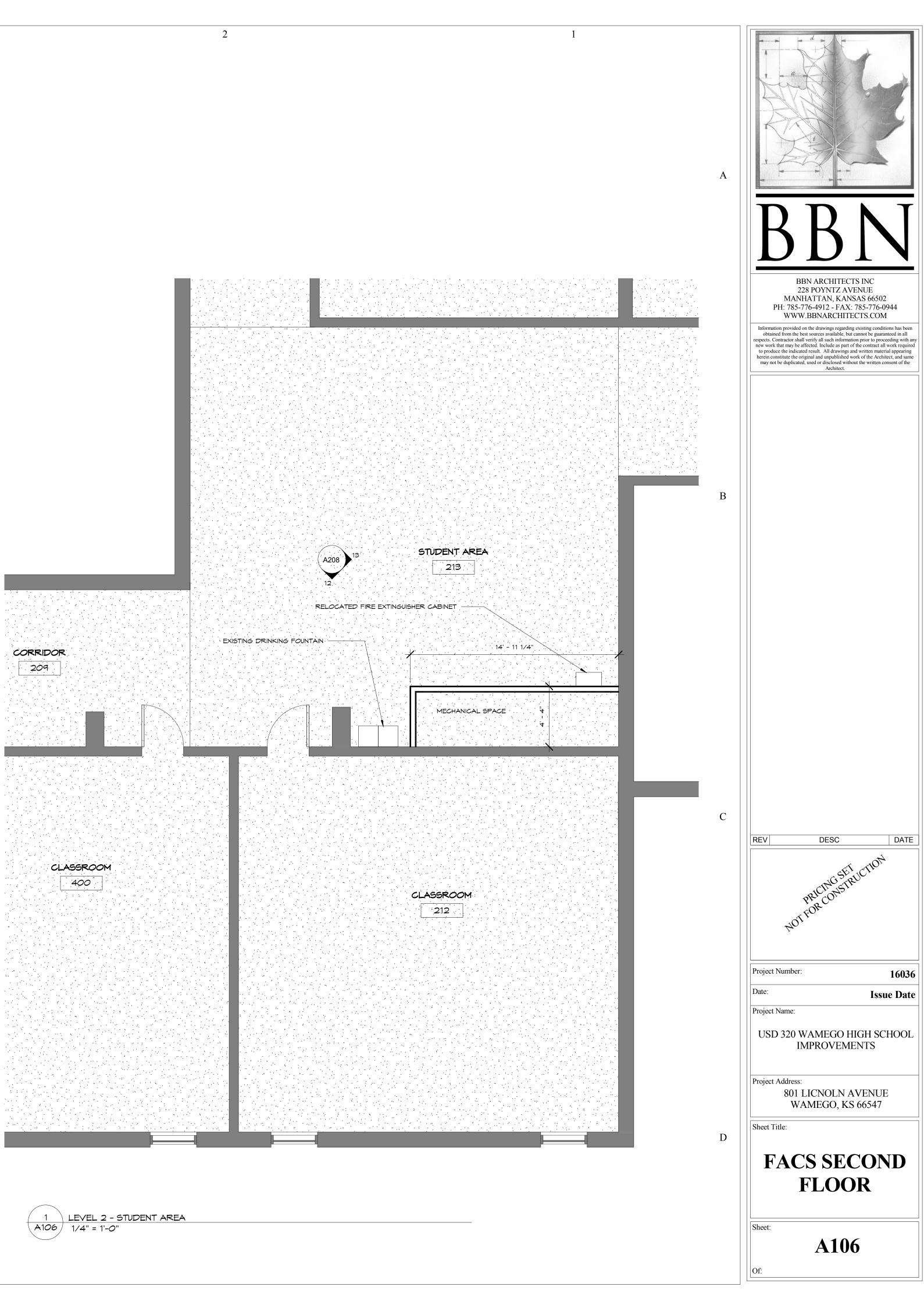






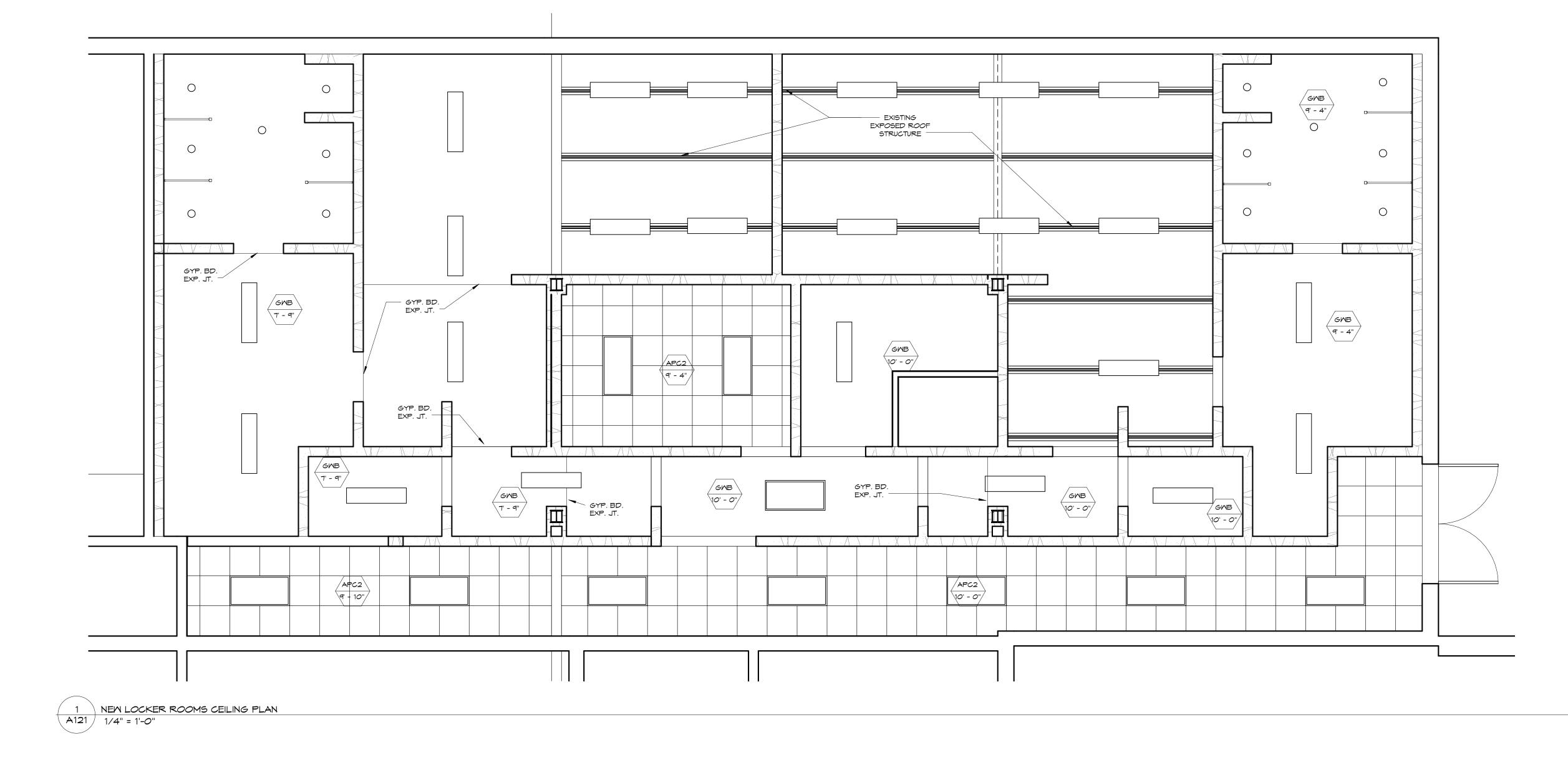
2 LEVEL 1 - RESTROOMS A106 1/4" = 1'-0"

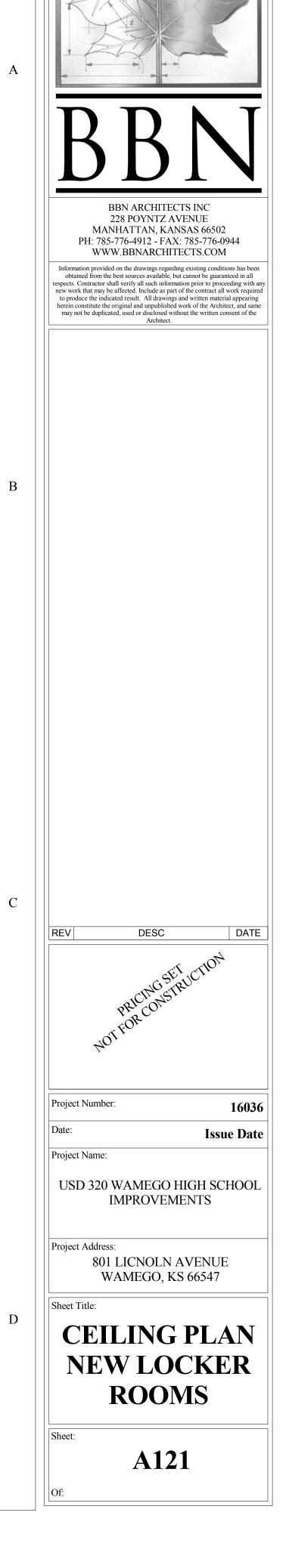




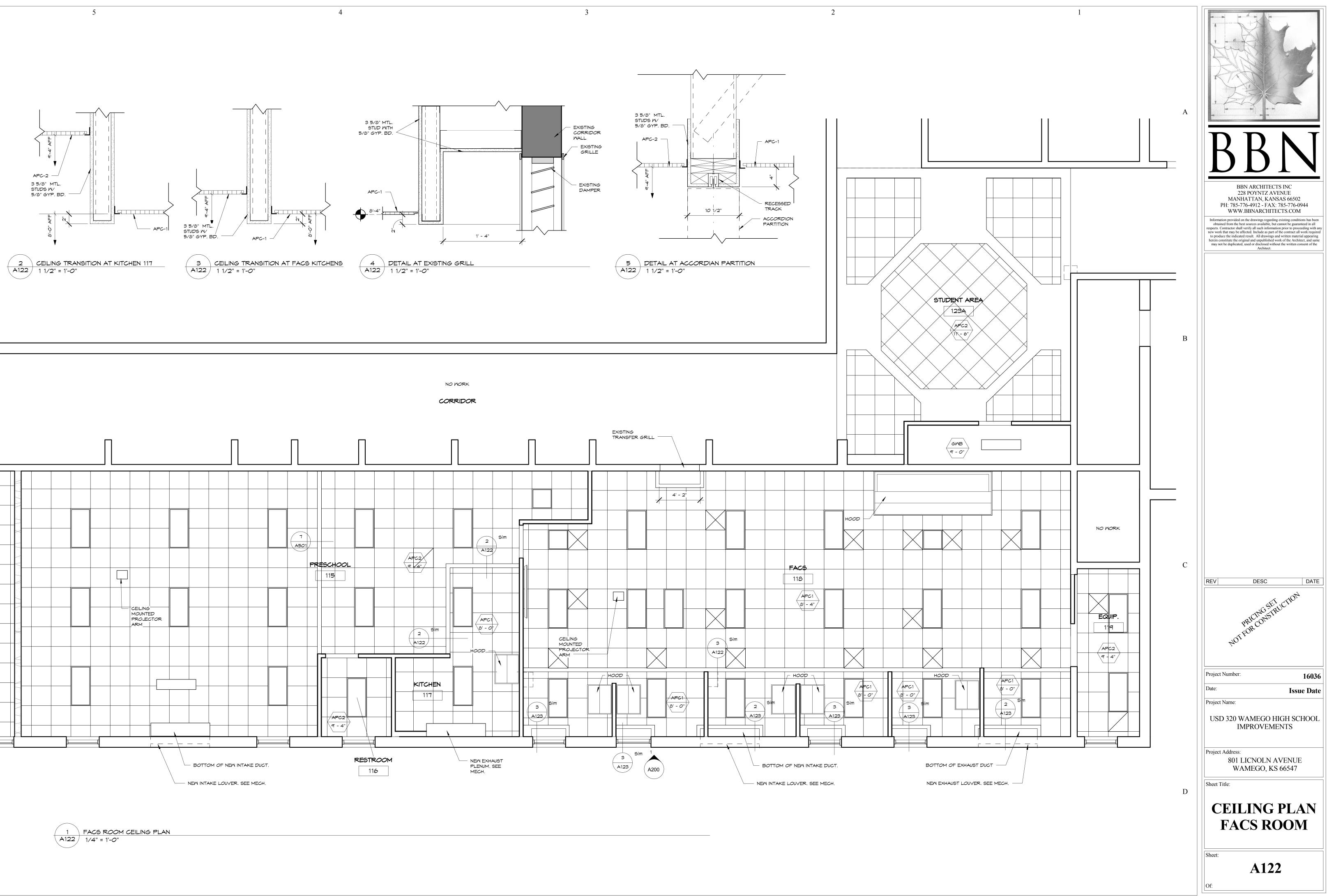


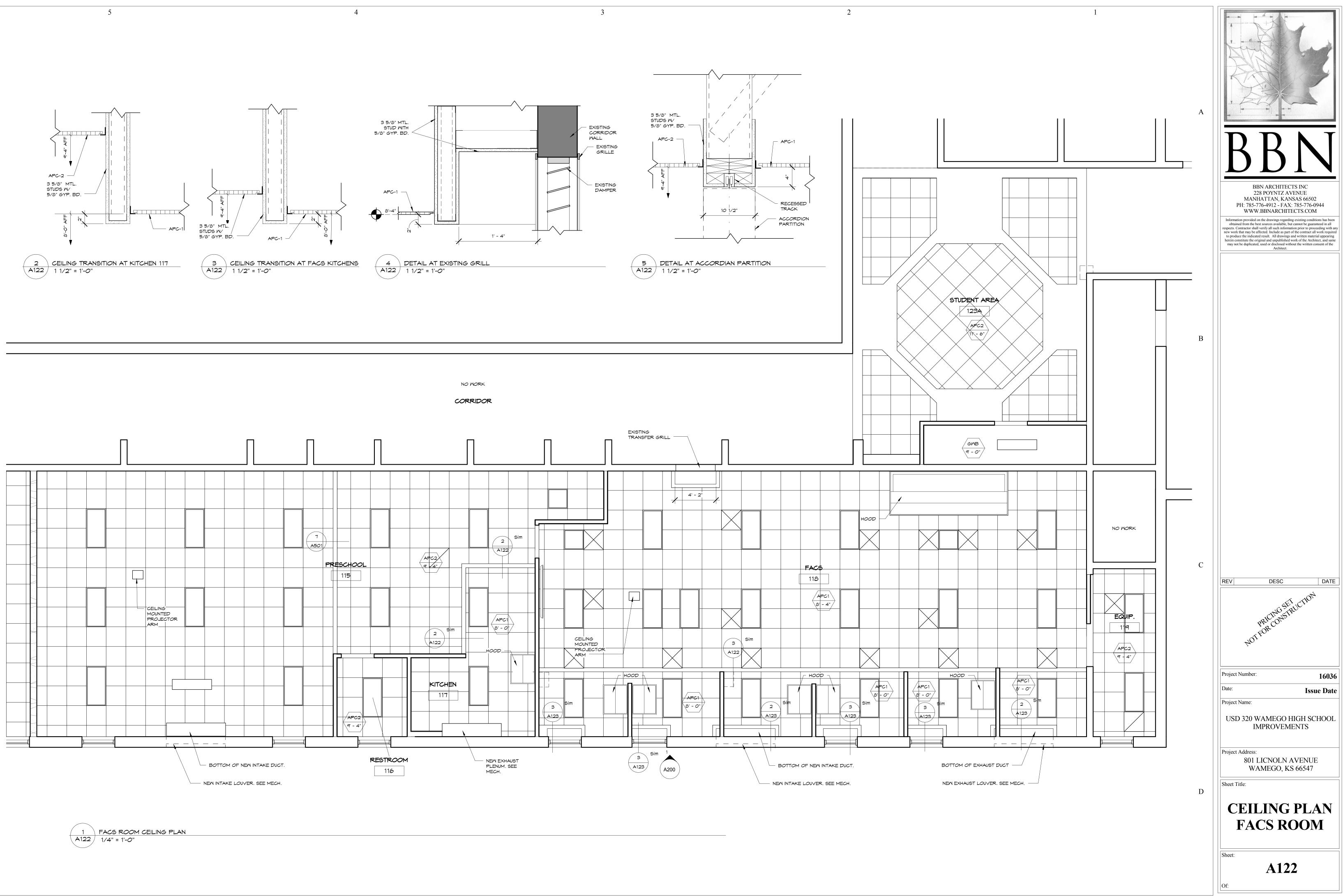


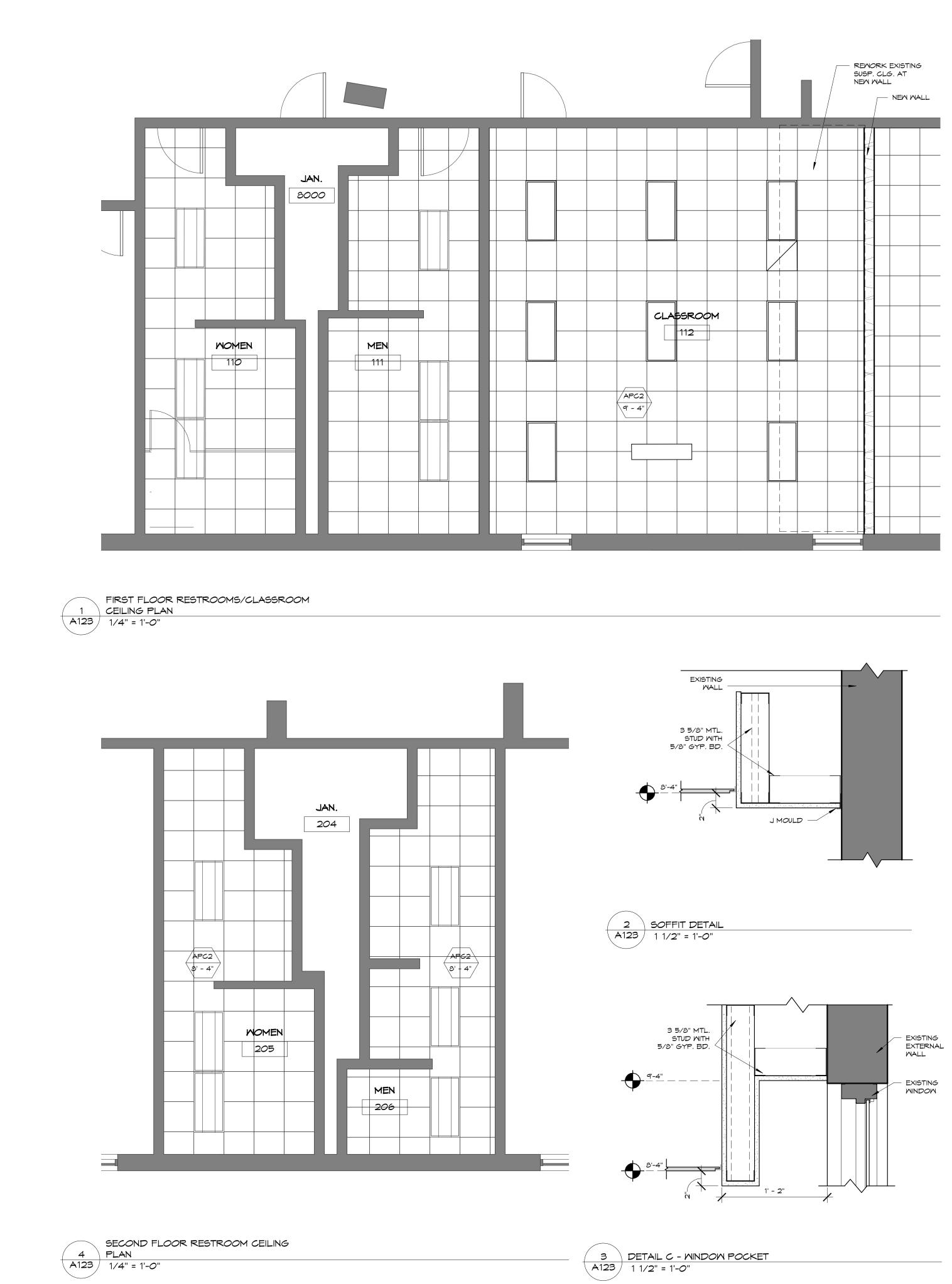


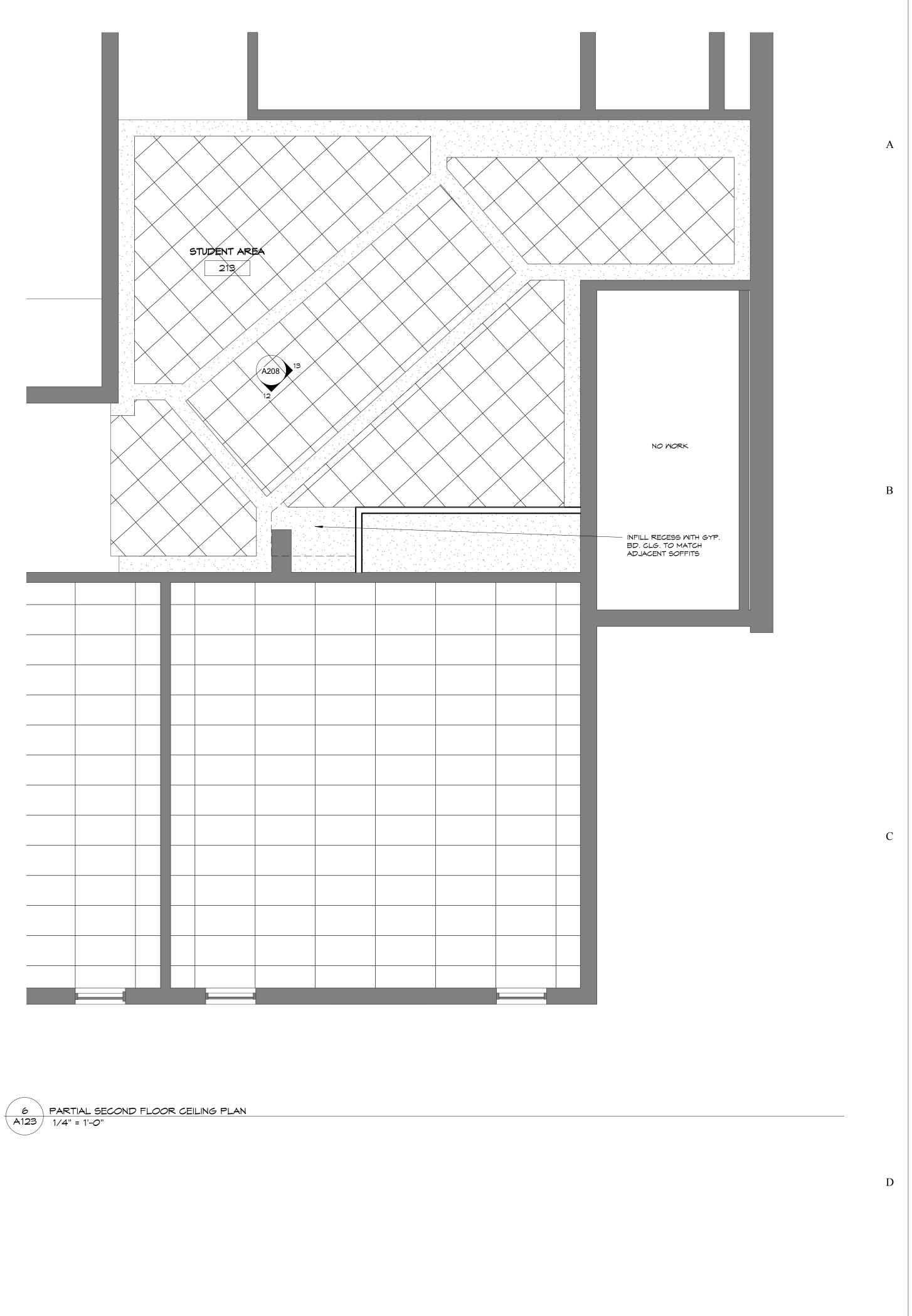


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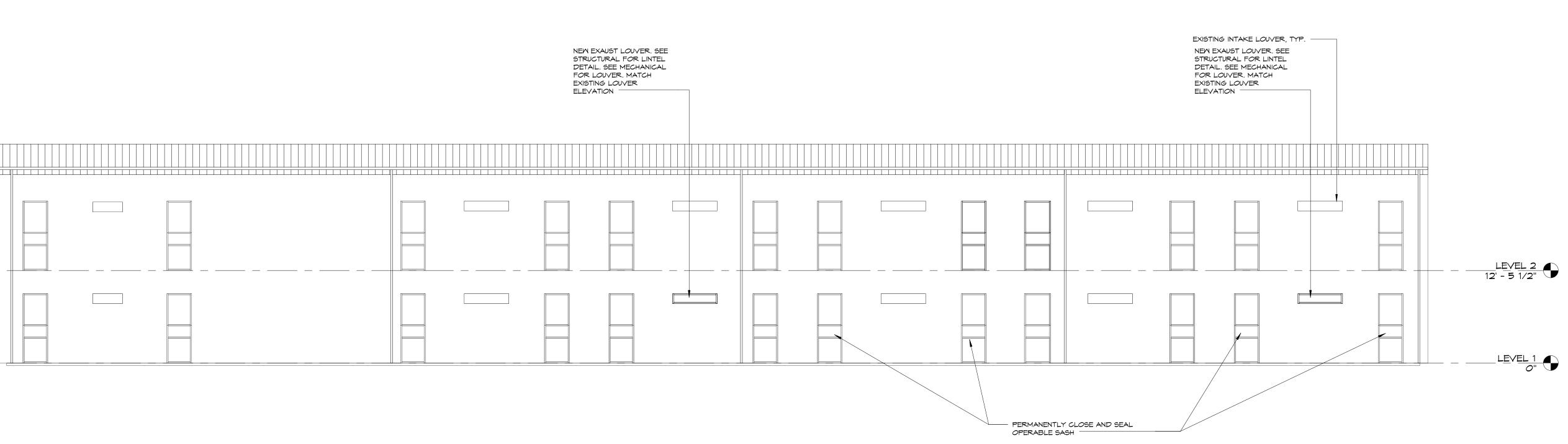
obtained from the best sources available, but cannot be guaranteed in all respects. Contractor shall verify all such information prior to proceeding with a new work that may be affected. Include as part of the contract all work require to produce the indicated result. All drawings and written material appearing	228 POYNTZ AVENUE MANHATTAN, KANSAS 66502 PH: 785-776-4912 - FAX: 785-776-0944 WWW.BBNARCHITECTS.COM			
	REV DESC DATE	228 H MANHA' PH: 785-776- WWW.Bl Information provided on the obtained from the best so respects. Contractor shall veri new work that may be affect to produce the indicated res herein constitute the origina	OYNTZ AVENUE TTAN, KANSAS 6 4912 - FAX: 785-7 BNARCHITECTS. drawings regarding existing arces available, but cannot b y all such information prior d. Include as part of the com ult. All drawings and writte and unpublished work of th and unpublished work of th	6502 76-0944 COM conditions has been e guaranteed in all to proceeding with a ract all work require a material appearing e Architect, and sam
	REV DESC DATE			
REV DESC DATE PRICING SERUCTION PRICING SERUCTION NOT FOR CONSTRUCTION NOT FOR CONSTRUCTION </td <td>INTROVENIEN 15</td> <td>Project Number: Date: Project Name: USD 320 WA</td> <td>MEGO HIGH</td> <td>1603 Issue Date SCHOOL</td>	INTROVENIEN 15	Project Number: Date: Project Name: USD 320 WA	MEGO HIGH	1603 Issue Date SCHOOL
Project Number: 1603 Date: Issue Dat Project Name:	801 LICNOLN AVENUE WAMEGO, KS 66547 Sheet Title: REFLECTED CEILING	Project Number: Date: Project Name: USD 320 WA IMP Project Address: 801 LIC WAM Sheet Title: REF CF	MEGO HIGH ROVEMENT CNOLN AVEN IEGO, KS 665 LECT LILINC	1603 Issue Dat SCHOOI S NUE 47 ED

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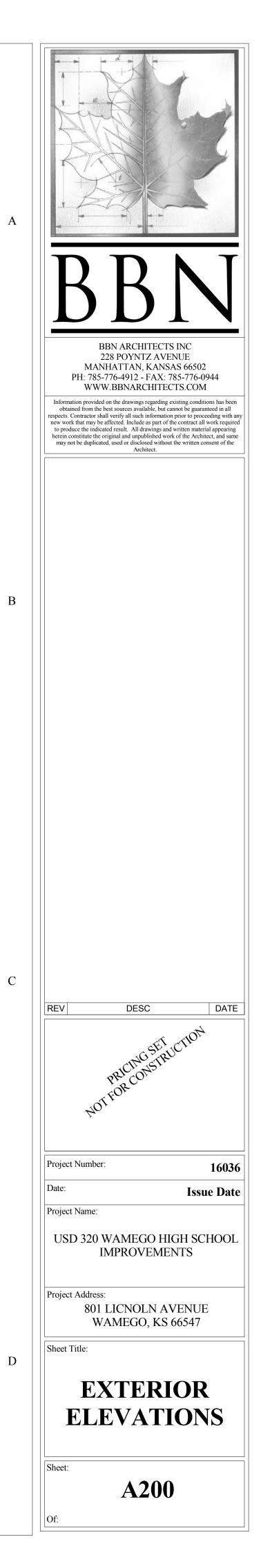


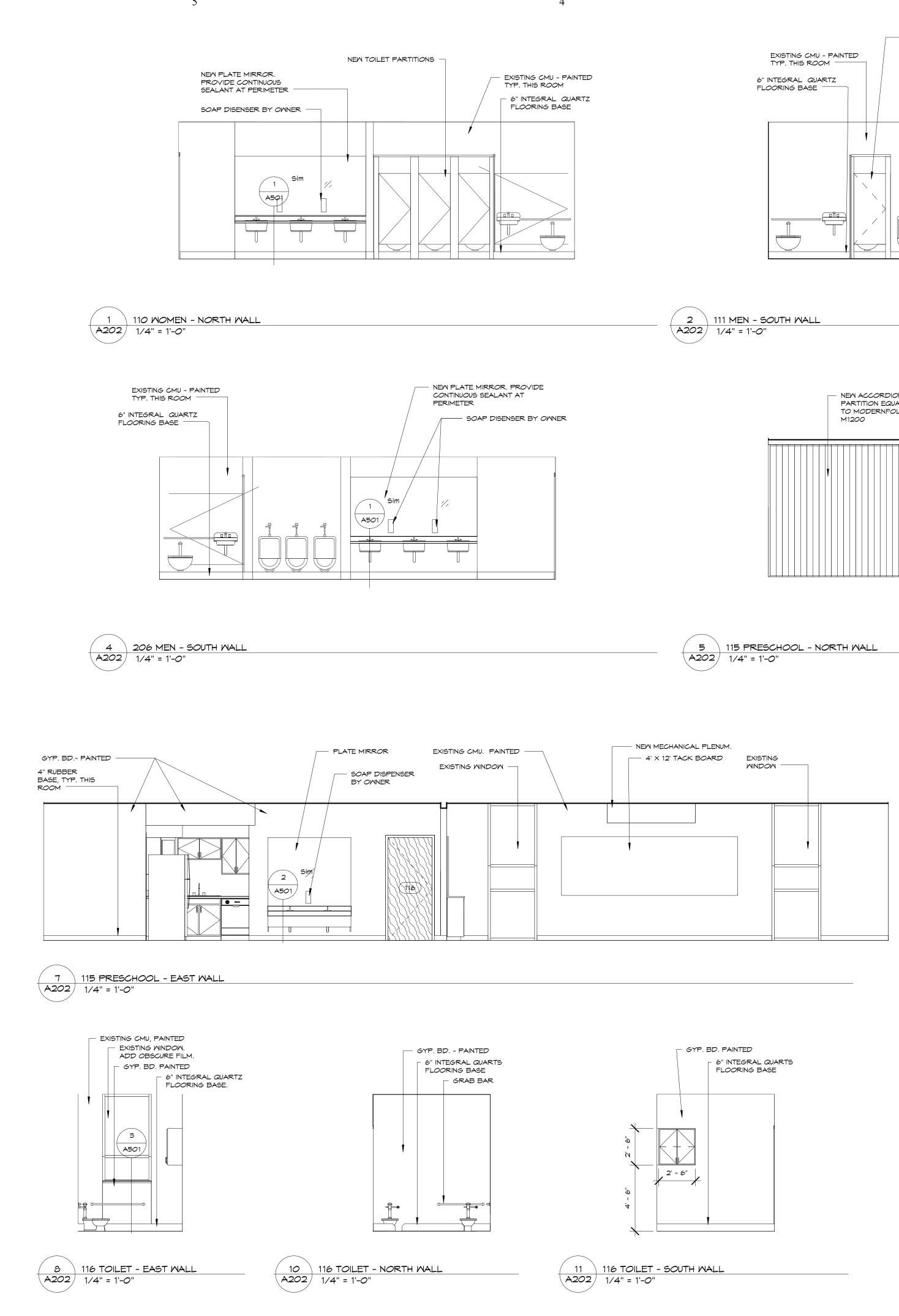
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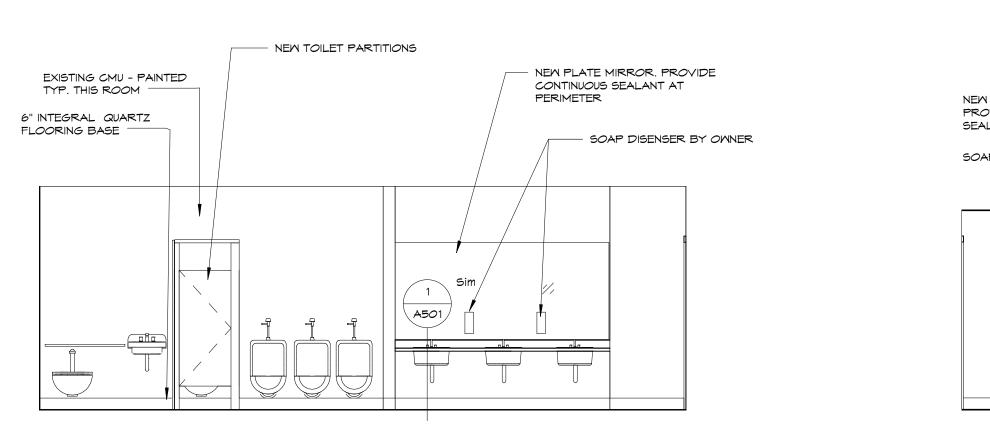
PARTIAL EAST ELEVATION A200 1/8" = 1'-0"



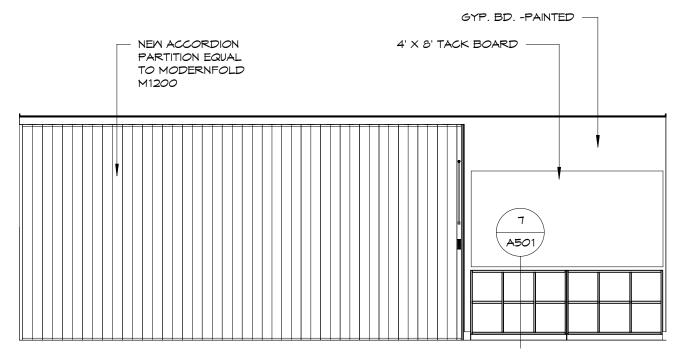
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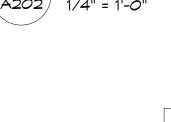


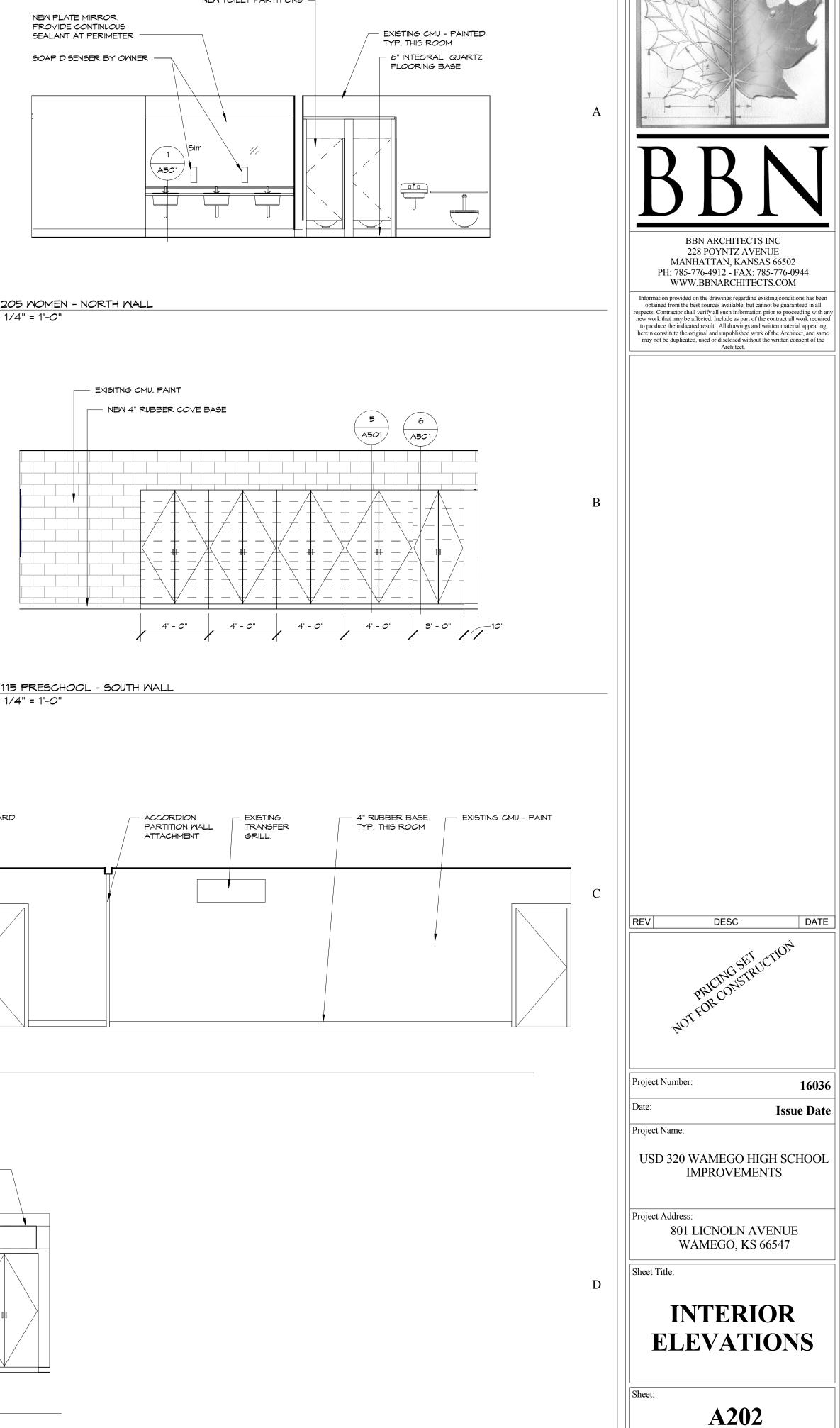








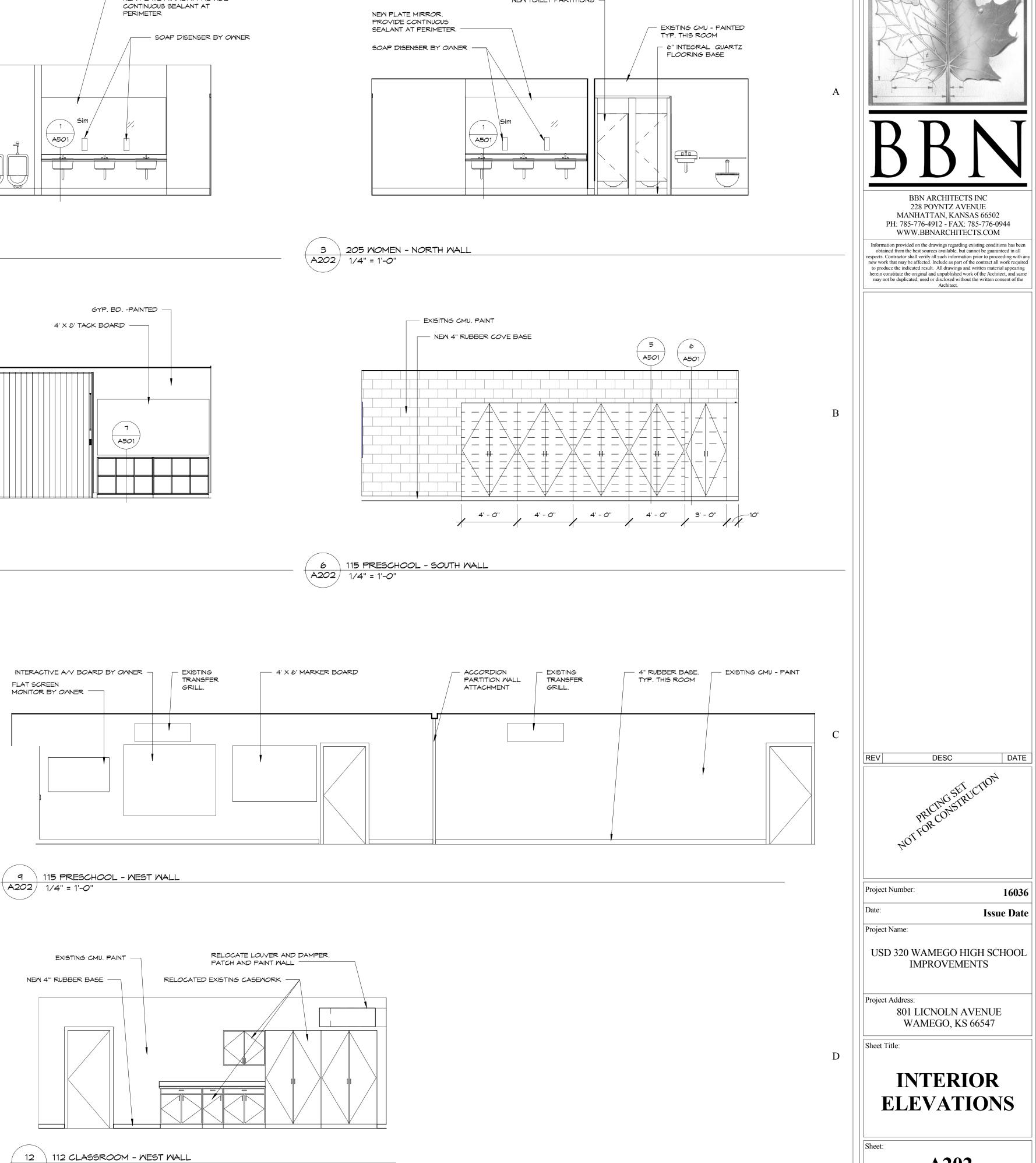


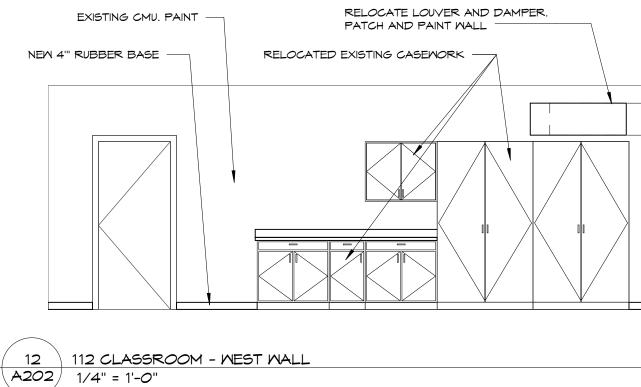


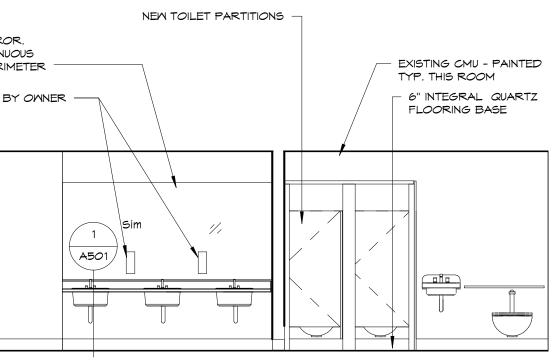
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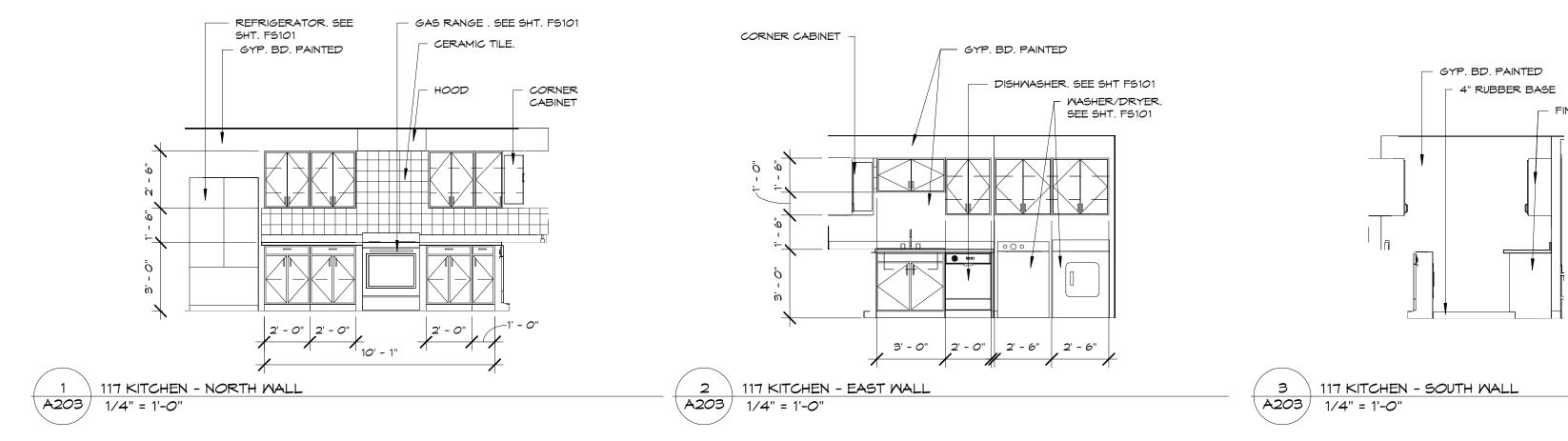
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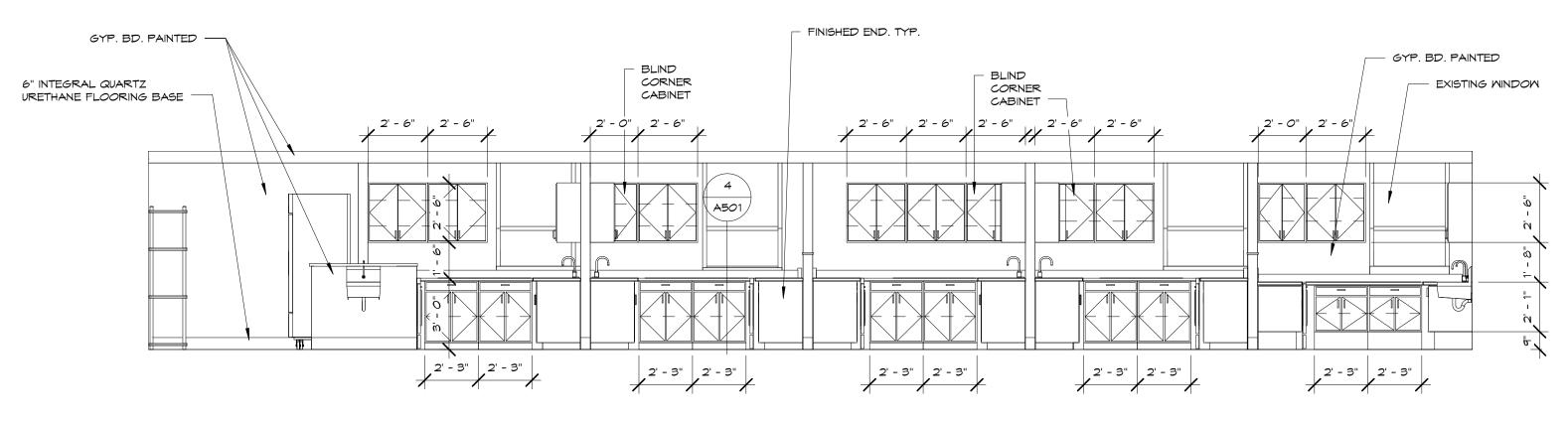




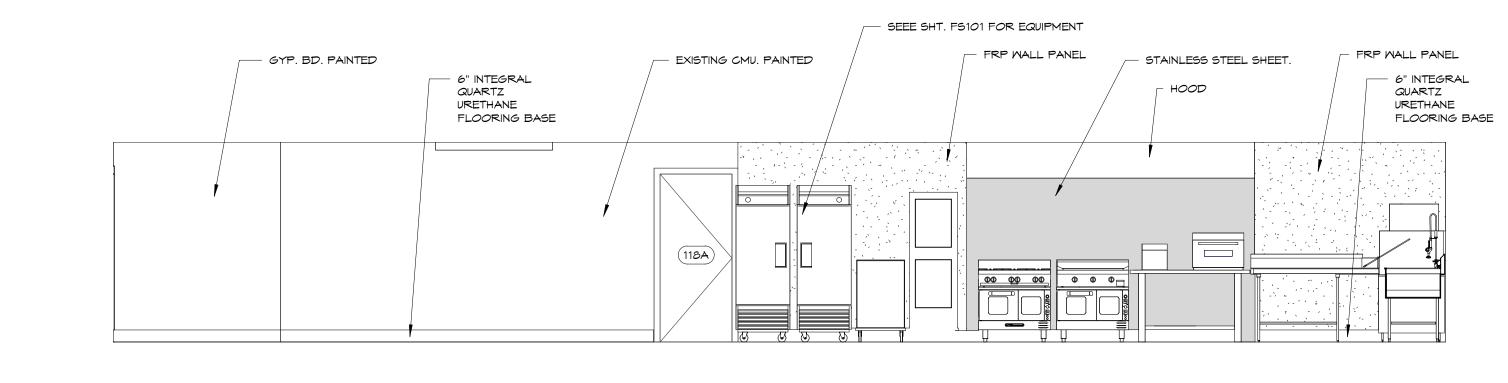










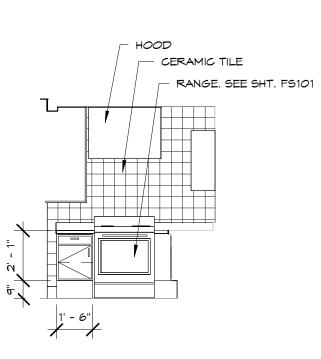




 9
 MALL

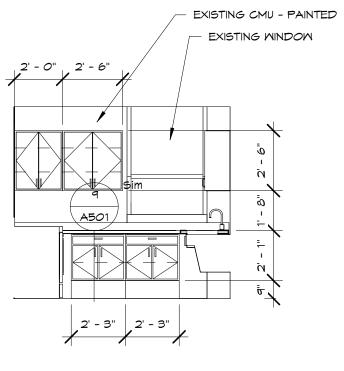
 A203
 1/4" = 1'-0"

7 118 FACS - WEST WALL A203 1/4" = 1'-0"

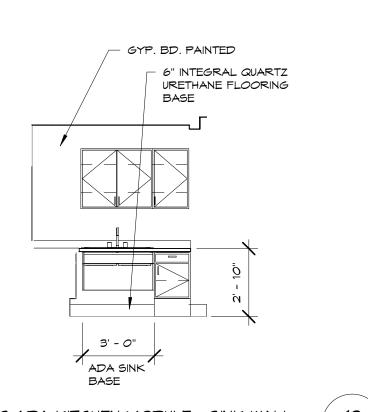


FACS ADA KITCHEN MODULE - RANGE

5



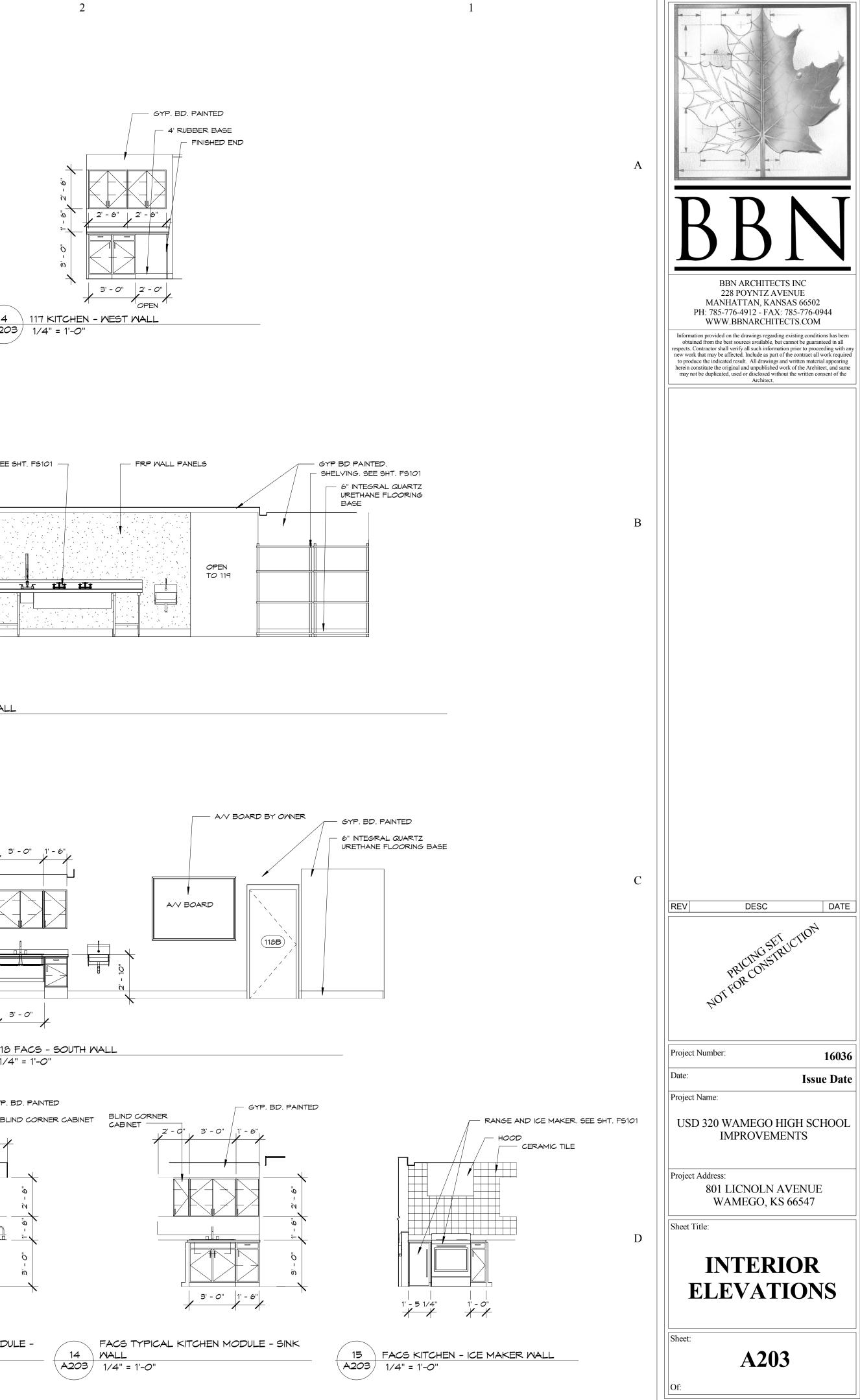
FACS ADA KITCHEN MODULE - COUNTER $\begin{array}{c} 10 \\ \hline A203 \\ \hline 1/4" = 1'-0" \end{array}$

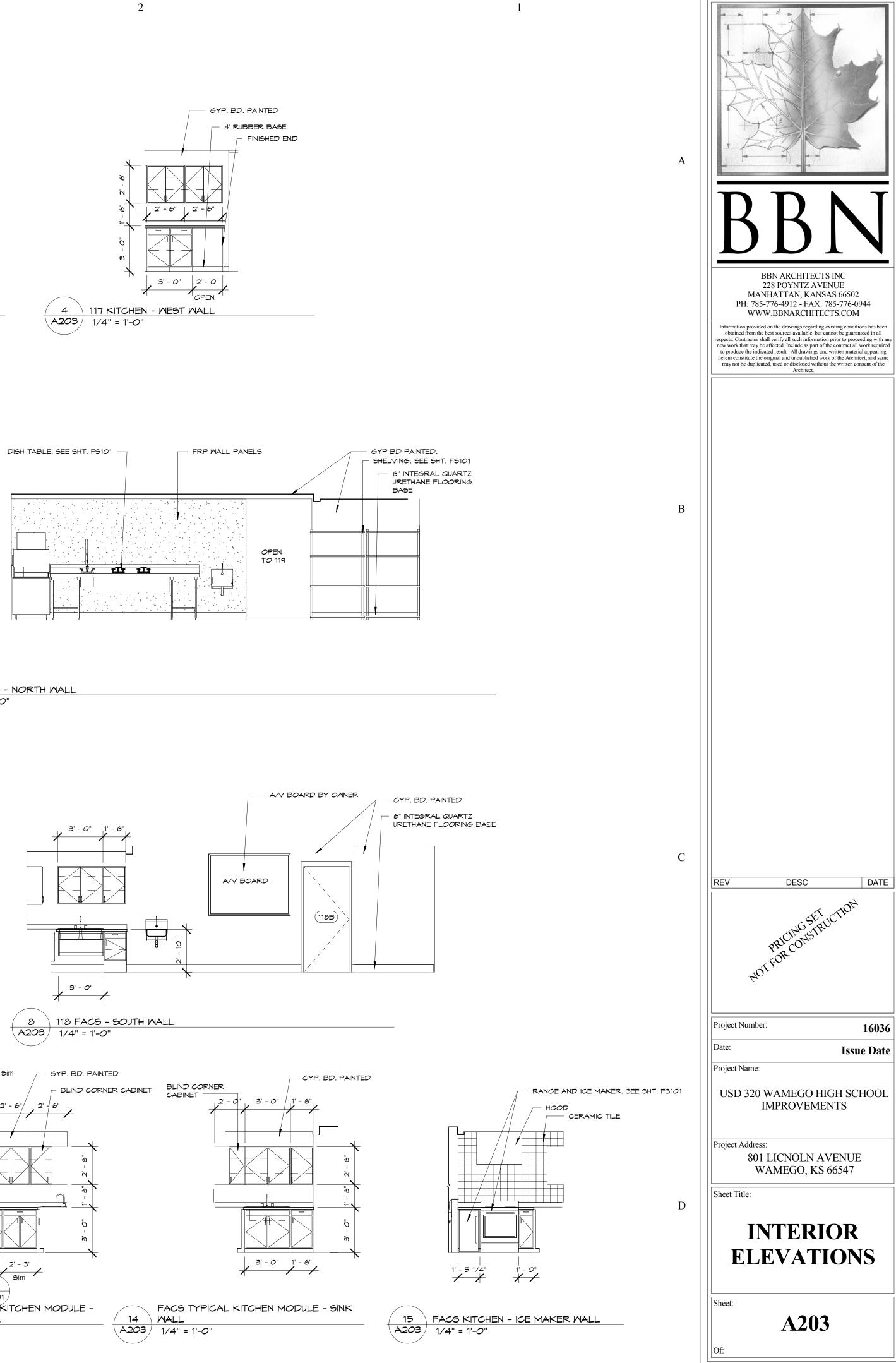


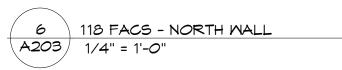
 11
 FACS ADA KITCHEN MODULE - SINK WALL

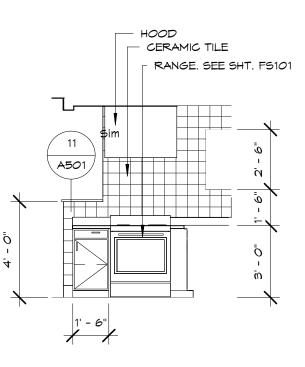
 A203
 1/4" = 1'-0"



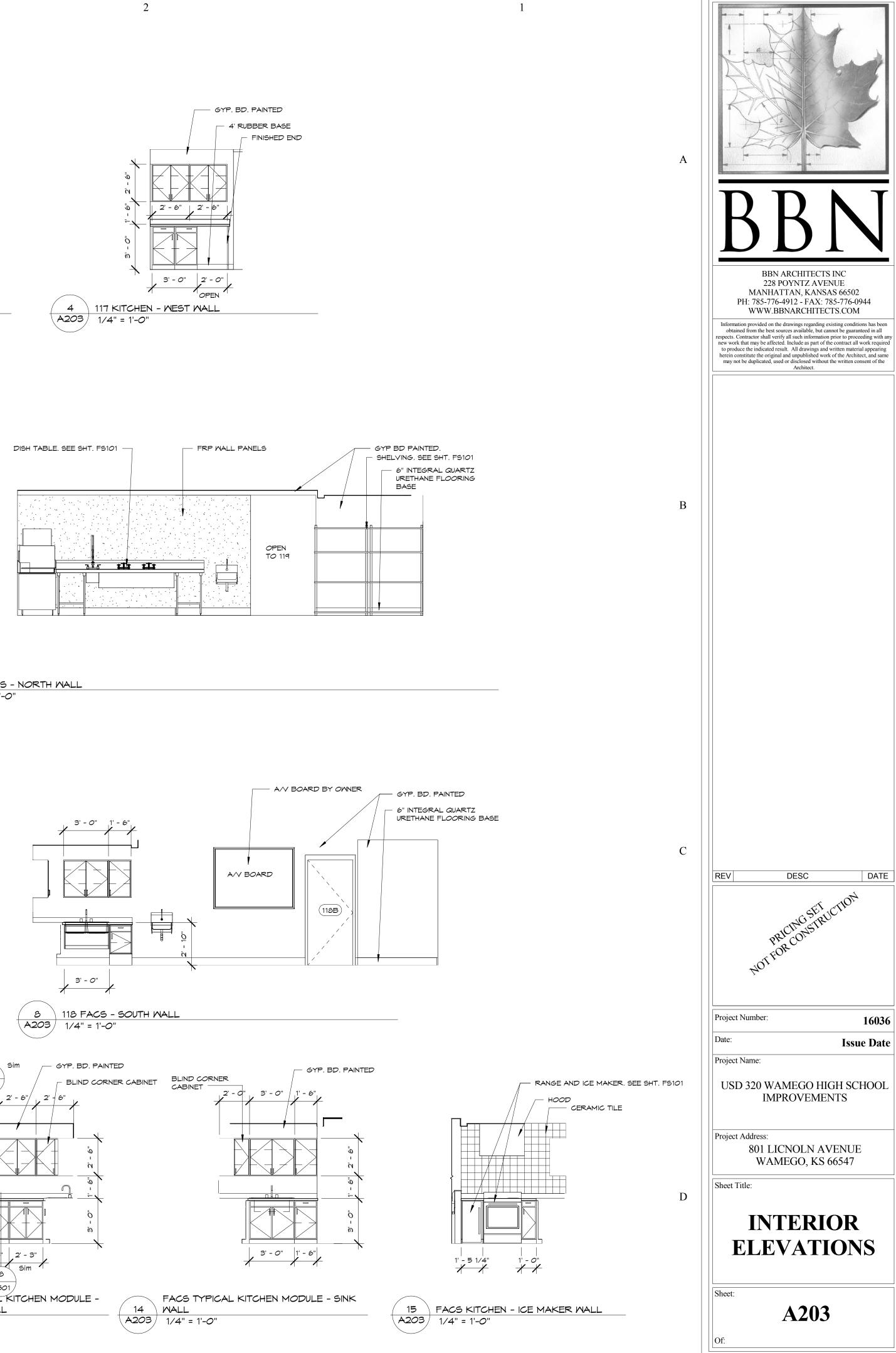


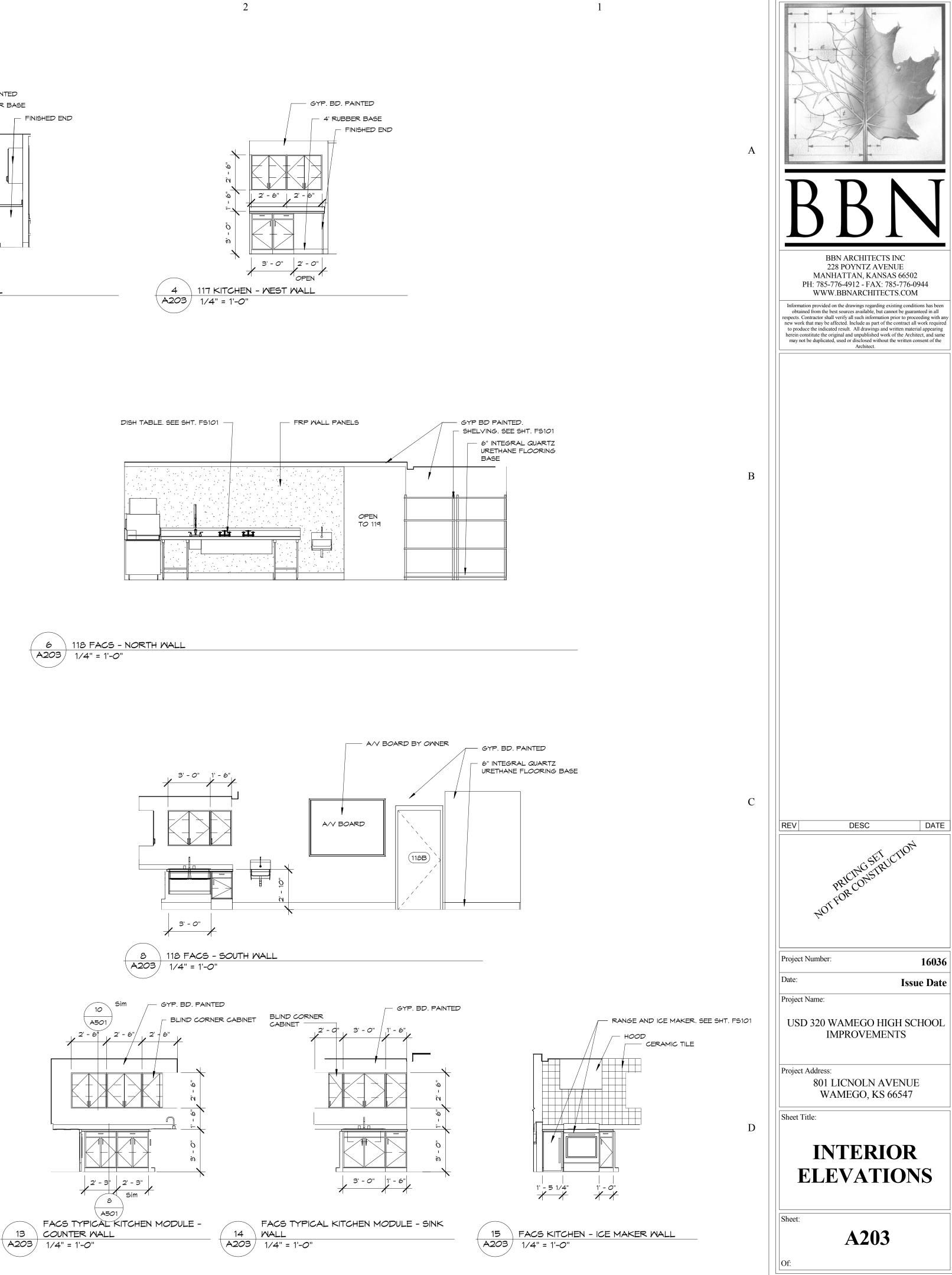


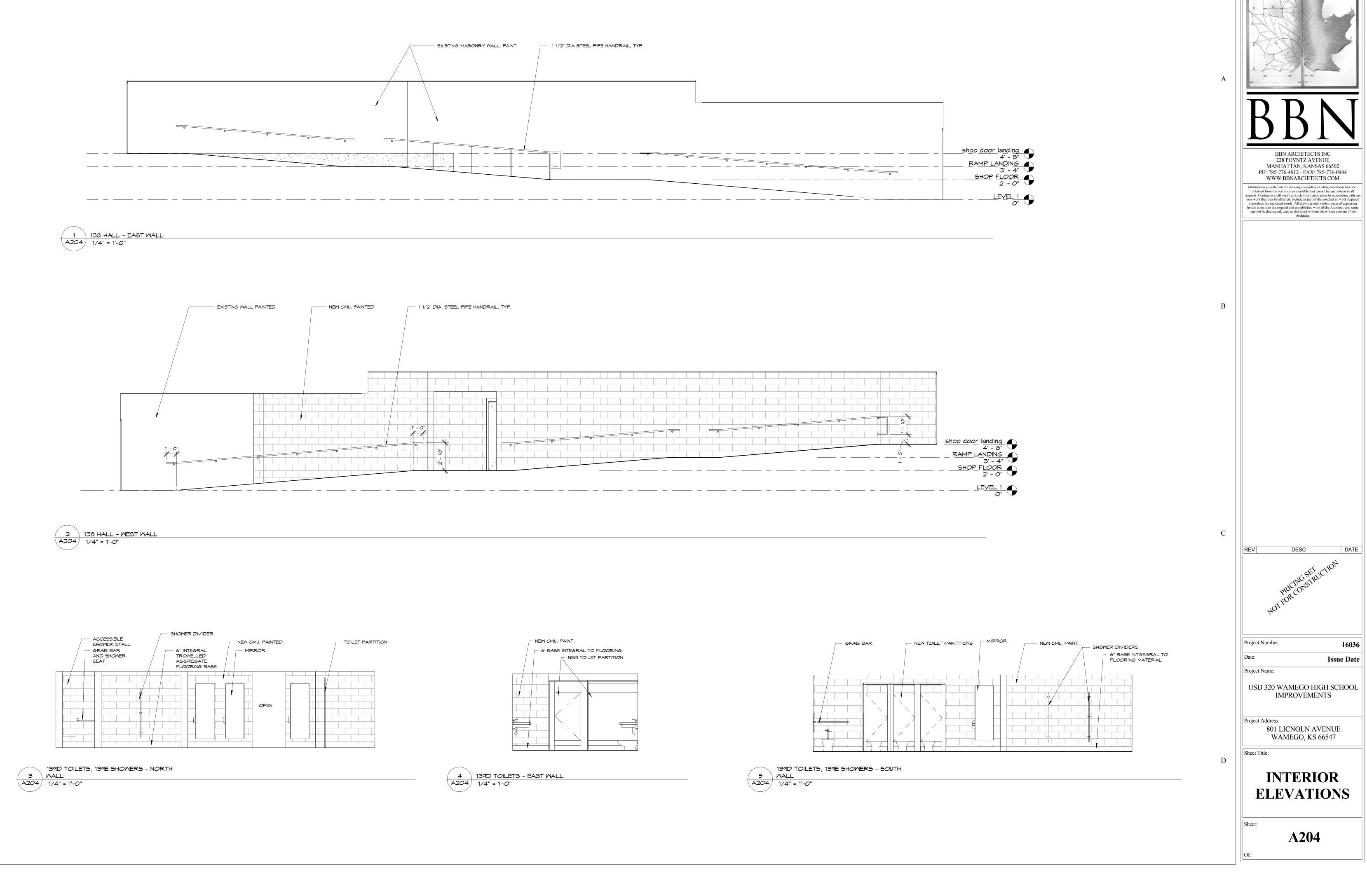




FACS TYPICAL KITCHEN MODULE - RANGE 12 MALL A203 1/4" = 1'-0"







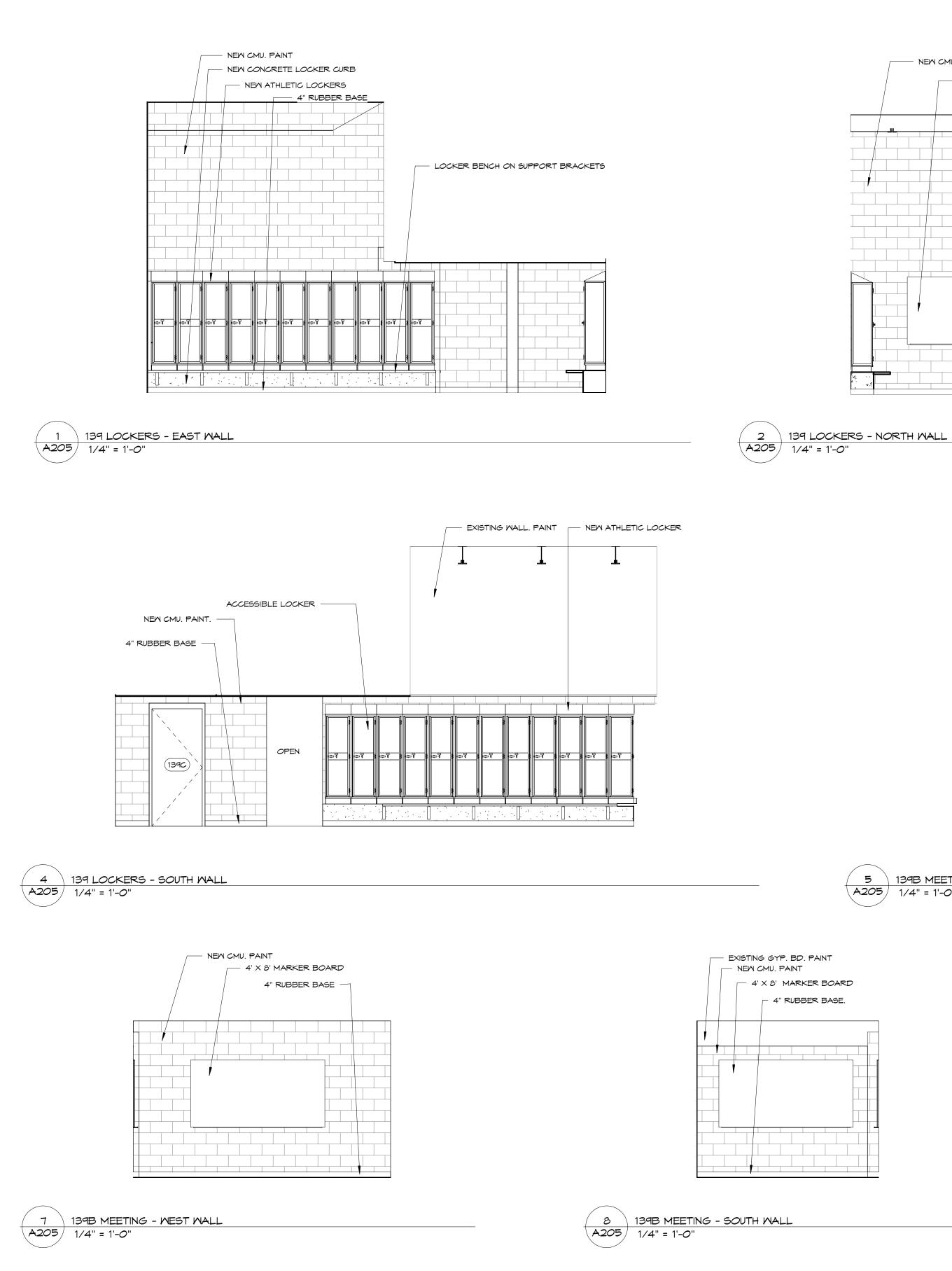
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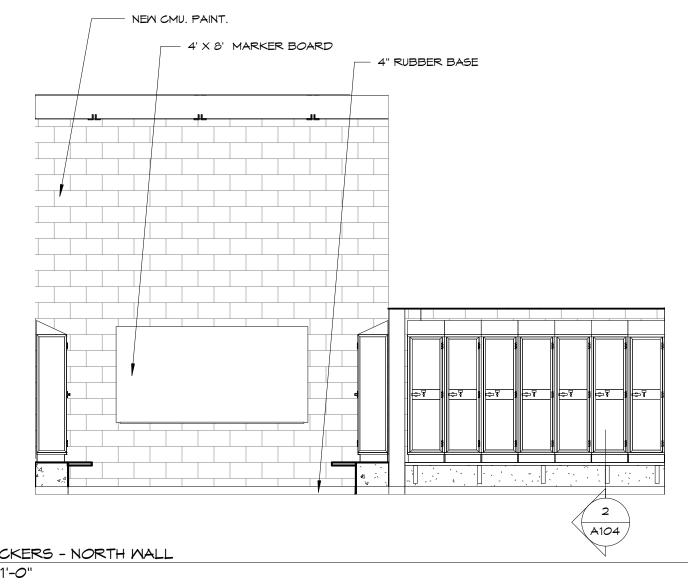
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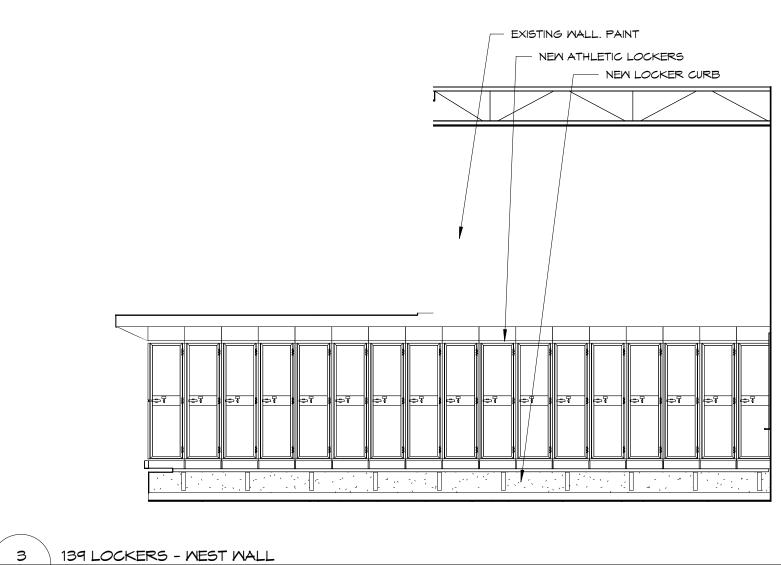
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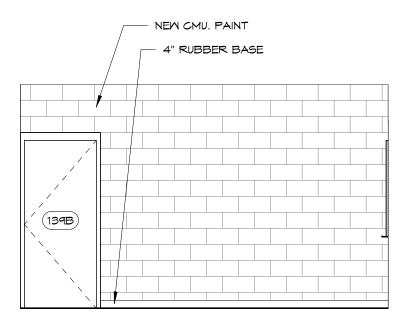
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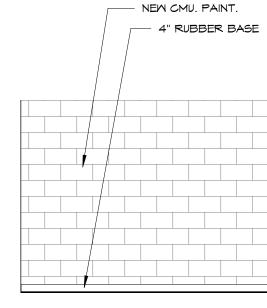
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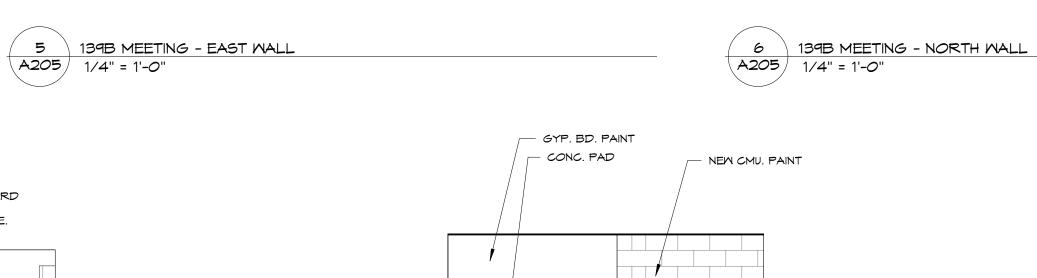


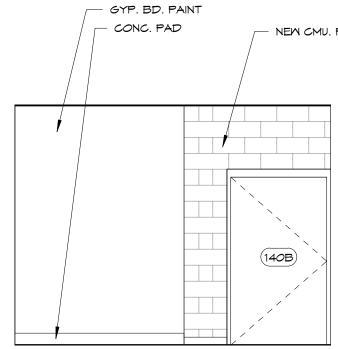




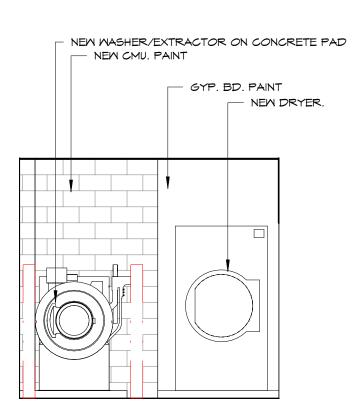
A205 1/4" = 1'-0"

2





9 140B LAUNDRY - EAST WALL A205/ 1/4" = 1'-0"





10 140B LAUNDRY - NORTH WALL A205 1/4" = 1'-0"

a d a BBN ARCHITECTS INC 228 POYNTZ AVENUE MANHATTAN, KANSAS 66502 PH: 785-776-4912 - FAX: 785-776-0944 WWW.BBNARCHITECTS.COM Information provided on the drawings regarding existing conditions has been obtained from the best sources available, but cannot be guaranteed in all respects. Contractor shall verify all such information prior to proceeding with any new work that may be affected. Include as part of the contract all work required to produce the indicated result. All drawings and written material appearing herein constitute the original and unpublished work of the Architect, and same may not be duplicated, used or disclosed without the written consent of the Architect. В С DESC DATE REV NOTFOR CONSTRUCTION Project Number: 16036 Date: Issue Date Project Name: USD 320 WAMEGO HIGH SCHOOL IMPROVEMENTS Project Address: 801 LICNOLN AVENUE WAMEGO, KS 66547 Sheet Title: D INTERIOR **ELEVATIONS** Sheet: A205 Of:

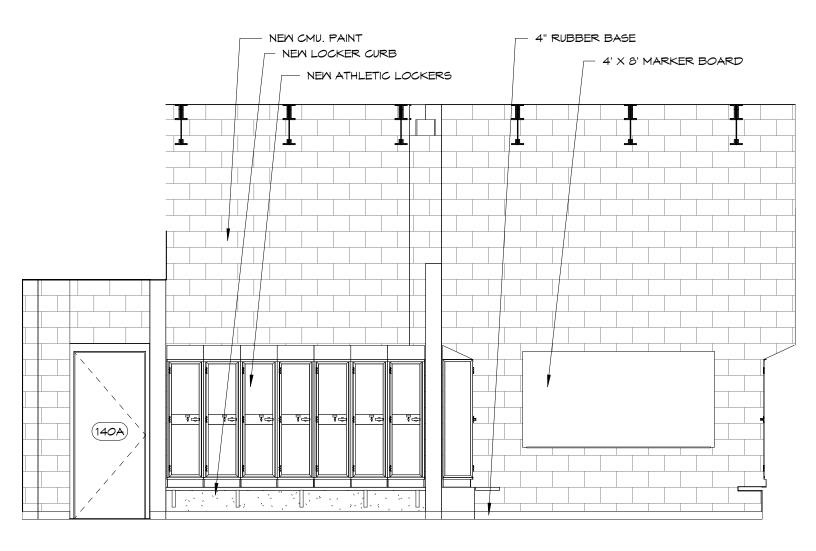
Α

- NEW CMU. PAINT - NEW LOCKER CURB - ATHLETIC LOCKERS - 4" RUBBER BASE.
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 <th 700 रिक्ता रिक्ता रिक्ता 7-2 _____

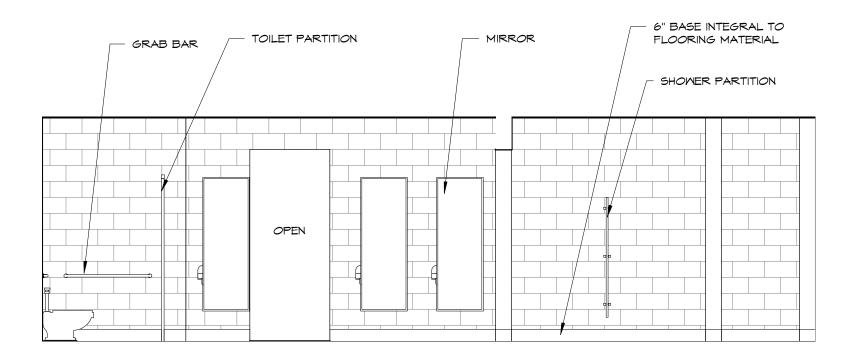
3 A104

140 LOCKERS - EAST WALL A206/ 1/4" = 1'-0"

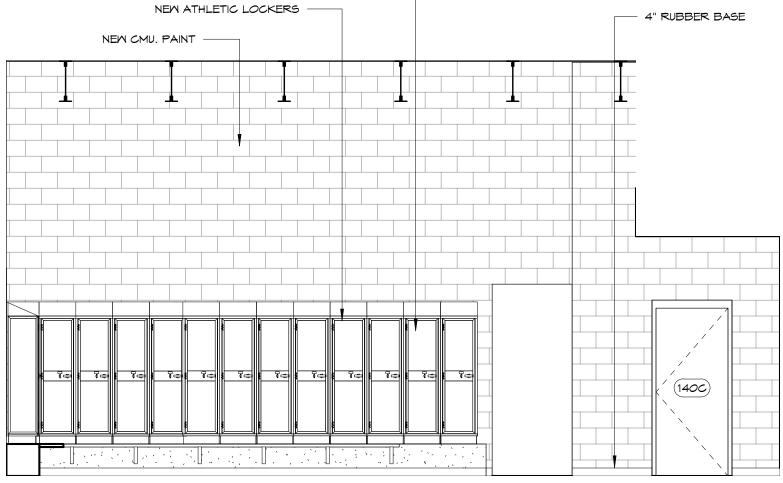
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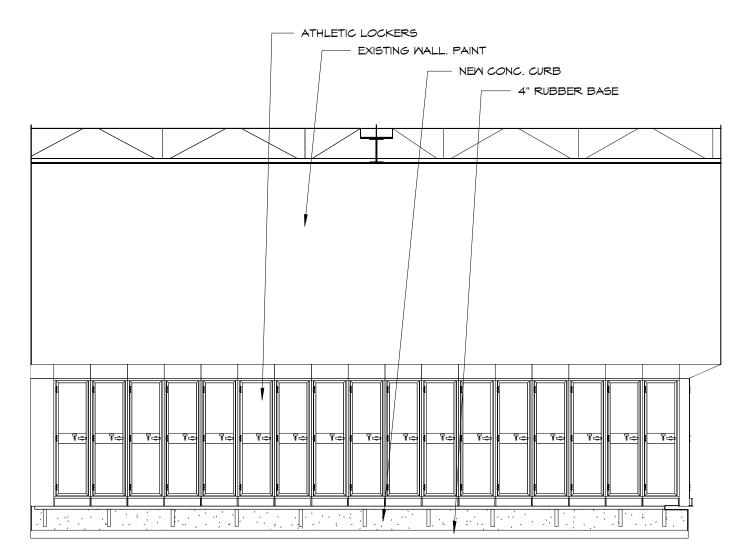


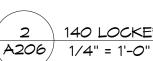
140 LOCKERS - SOUTH WALL 4 A206/ 1/4" = 1'-0"



140D TOILETS, 140E SHOWERS - SOUTH $\frac{7}{A206} \frac{MALL}{1/4" = 1'-0"}$

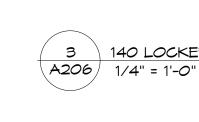






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2 140 LOCKERS - NORTH WALL

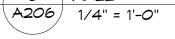


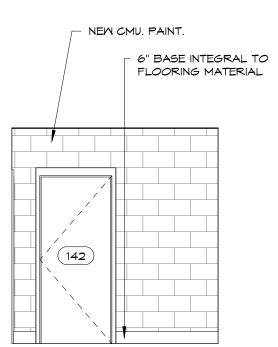
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SHOWER PARTITIONS NEW CMU. PAINT. MIRROR - TOILET PARTITIONS - 6" BASE INTWEGRAL TO FLOORING MATERIAL.

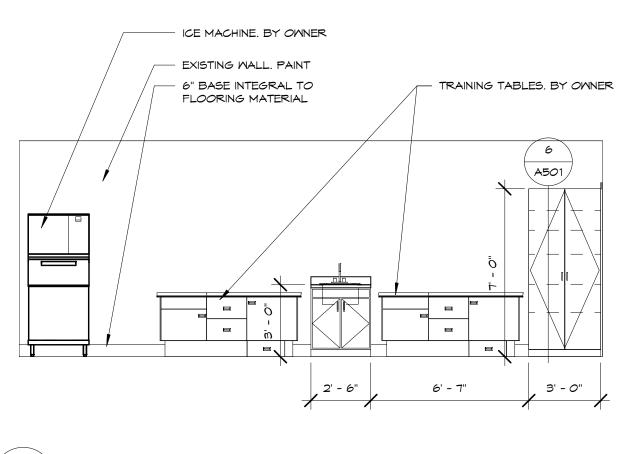


1400 TOILETS, 140E SHOWERS - NORTH MALL





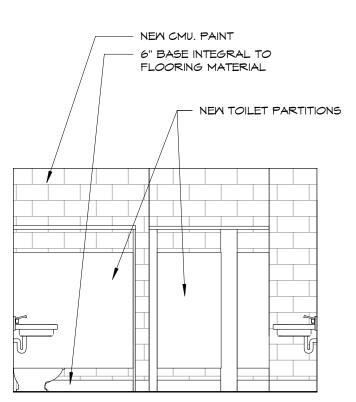


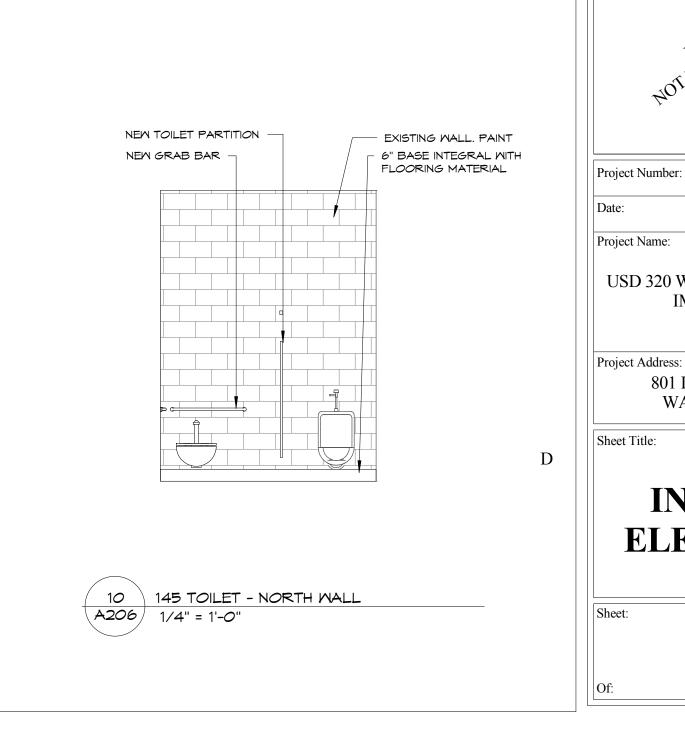


143 TRAINING - NORTH WALL 9 A206 1/4" = 1'-0"

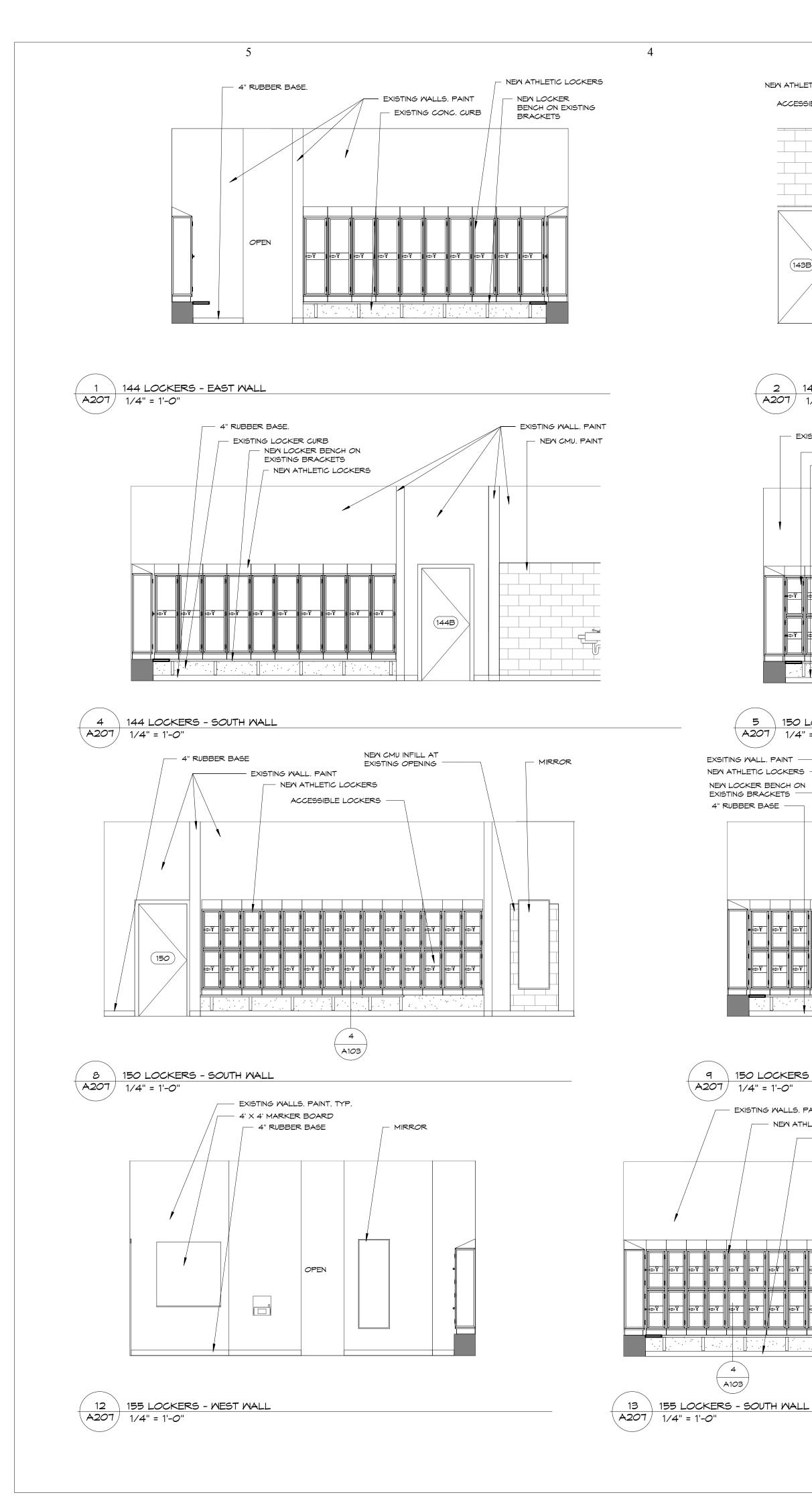


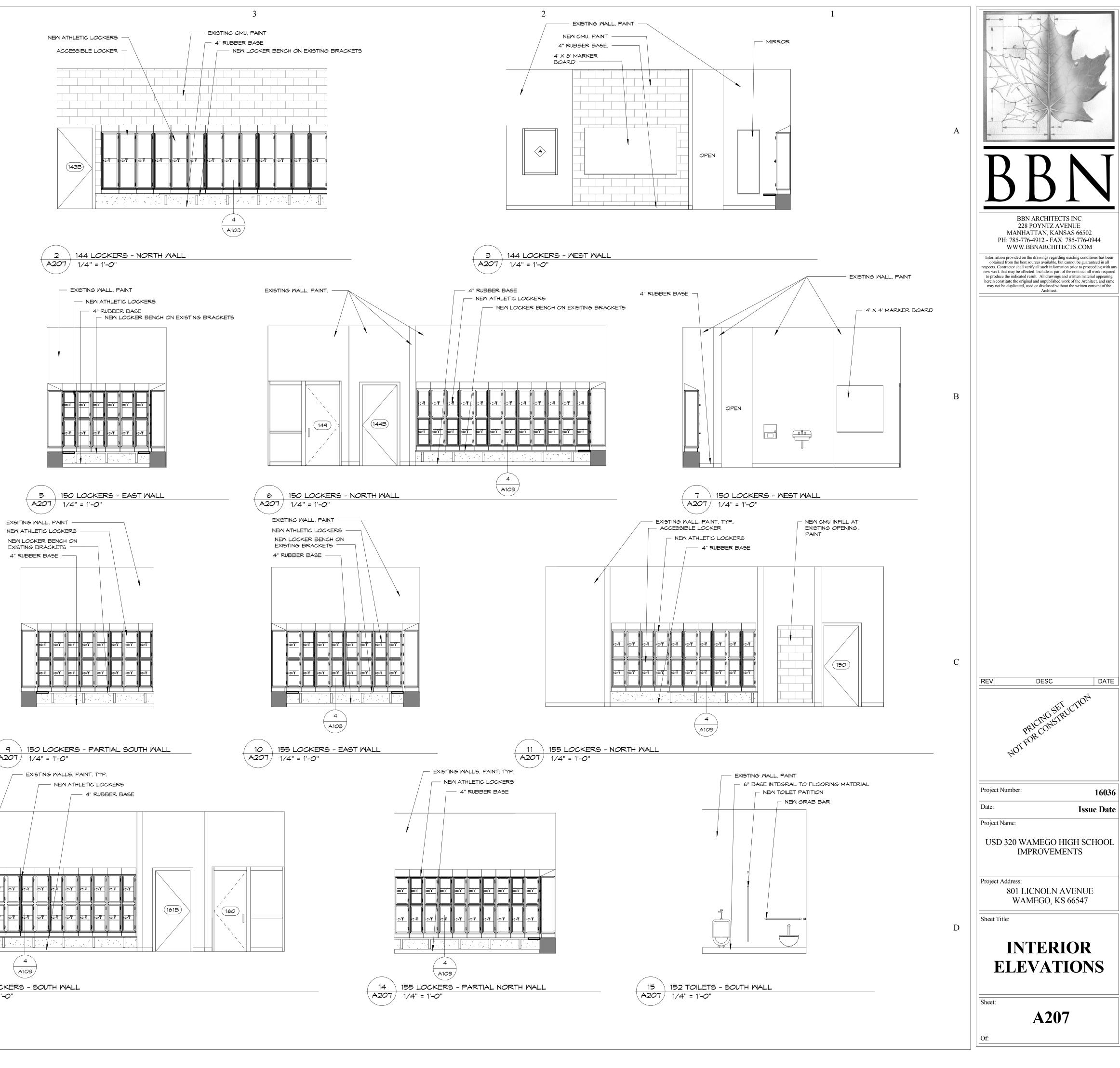
140 LOCKERS - WEST WALL



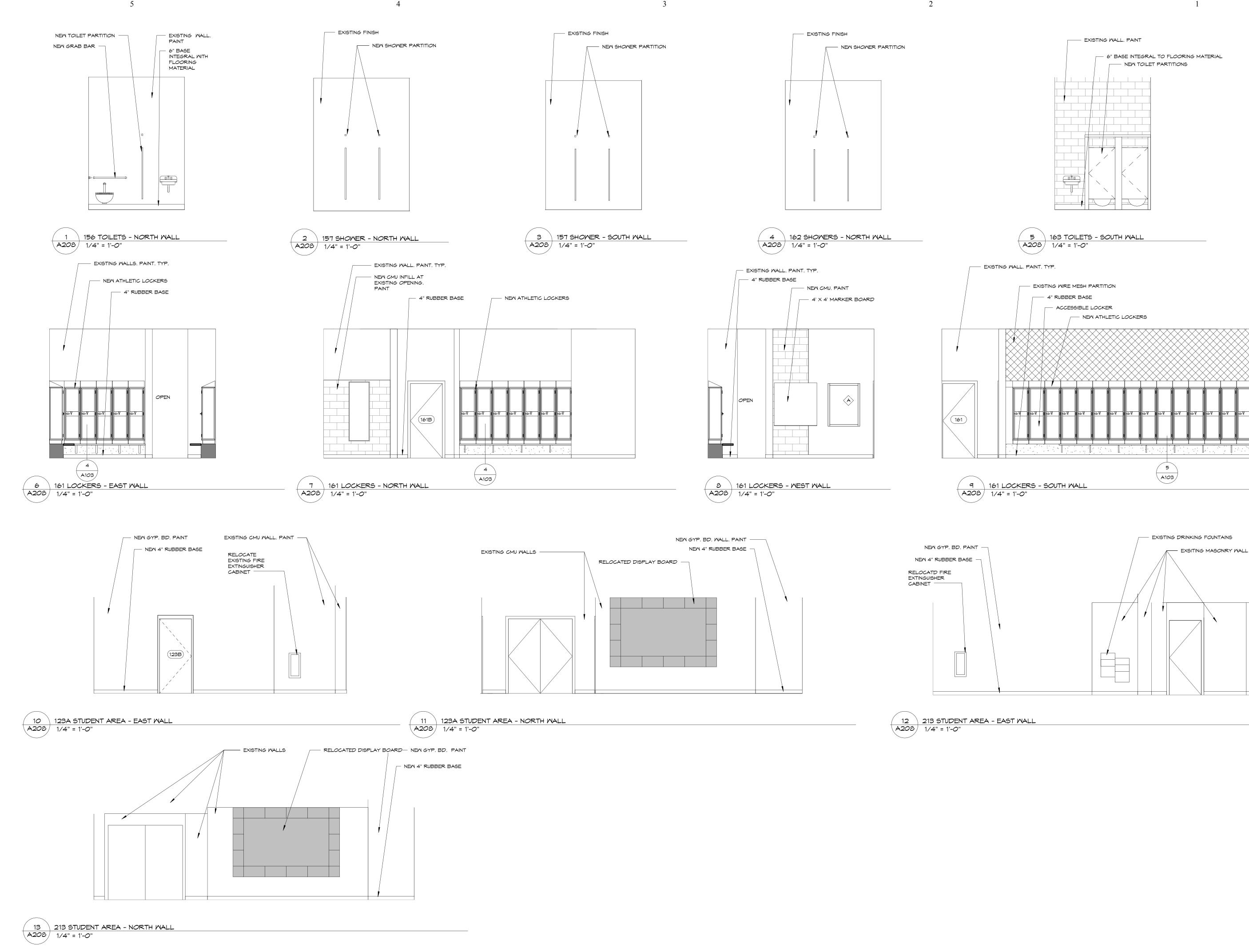


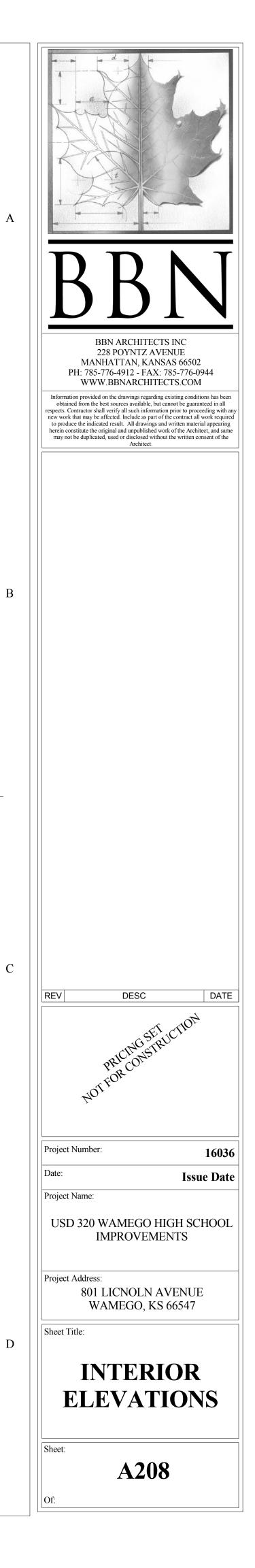
a d a -10-А BBN ARCHITECTS INC 228 POYNTZ AVENUE MANHATTAN, KANSAS 66502 PH: 785-776-4912 - FAX: 785-776-0944 WWW.BBNARCHITECTS.COM Information provided on the drawings regarding existing conditions has been obtained from the best sources available, but cannot be guaranteed in all respects. Contractor shall verify all such information prior to proceeding with any new work that may be affected. Include as part of the contract all work required to produce the indicated result. All drawings and written material appearing herein constitute the original and unpublished work of the Architect, and same may not be duplicated, used or disclosed without the written consent of the Architect. В С DESC DATE REV NOT FOR CONSTRUCTION 16036 Issue Date USD 320 WAMEGO HIGH SCHOOL IMPROVEMENTS 801 LICNOLN AVENUE WAMEGO, KS 66547 INTERIOR **ELEVATIONS** A206

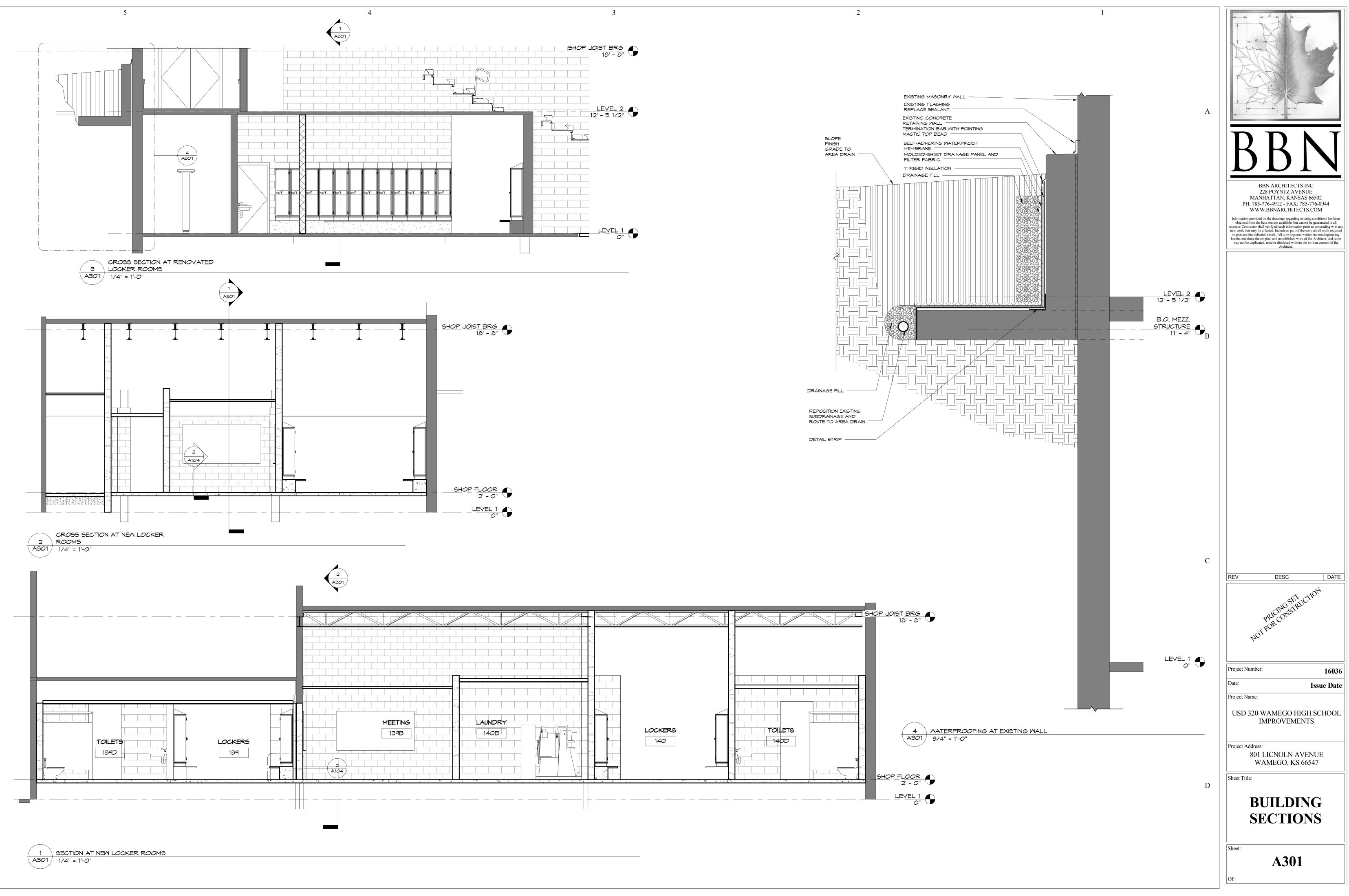




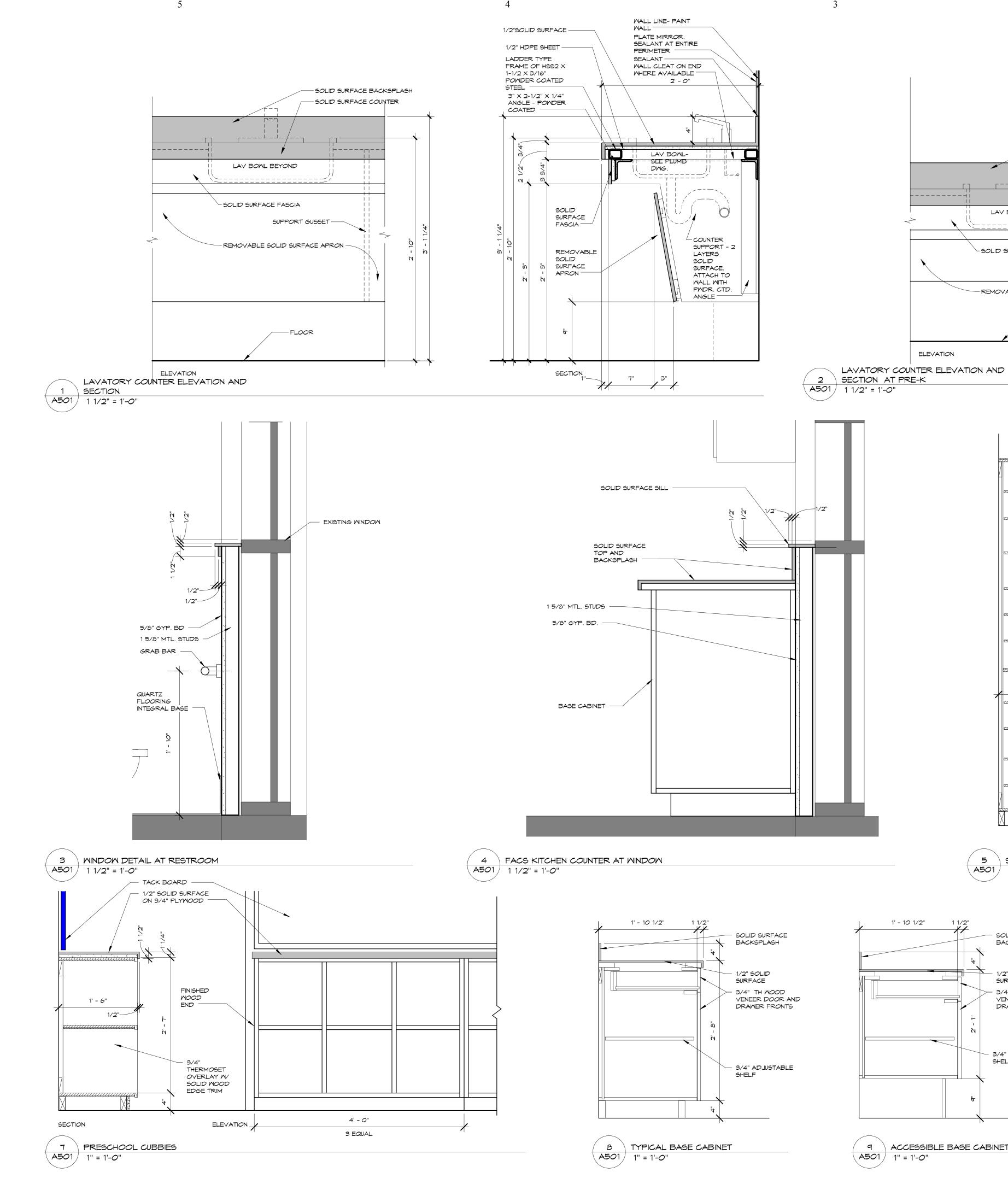
DATE

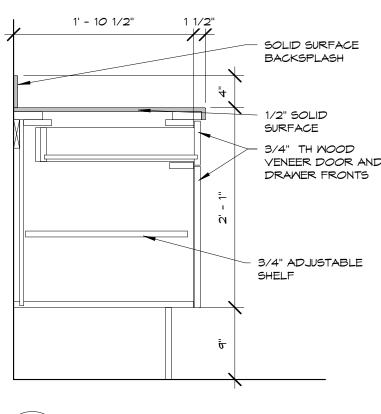


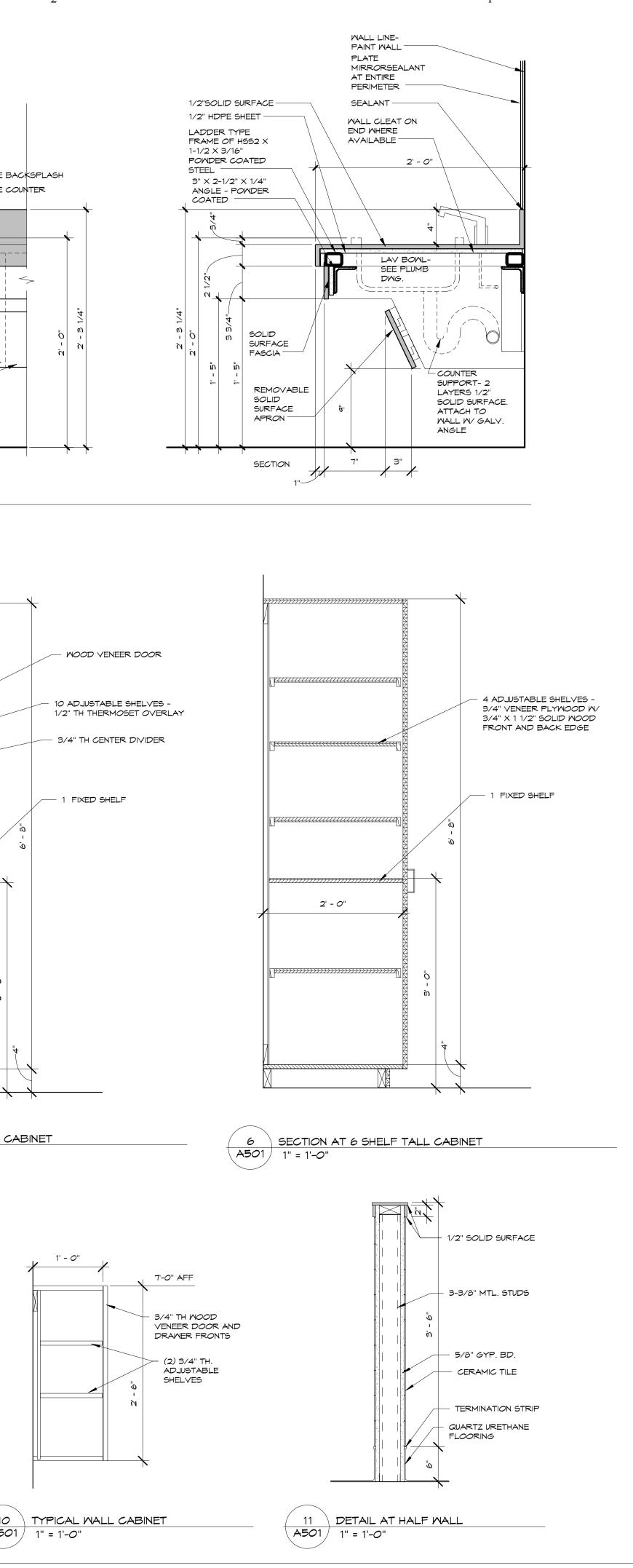


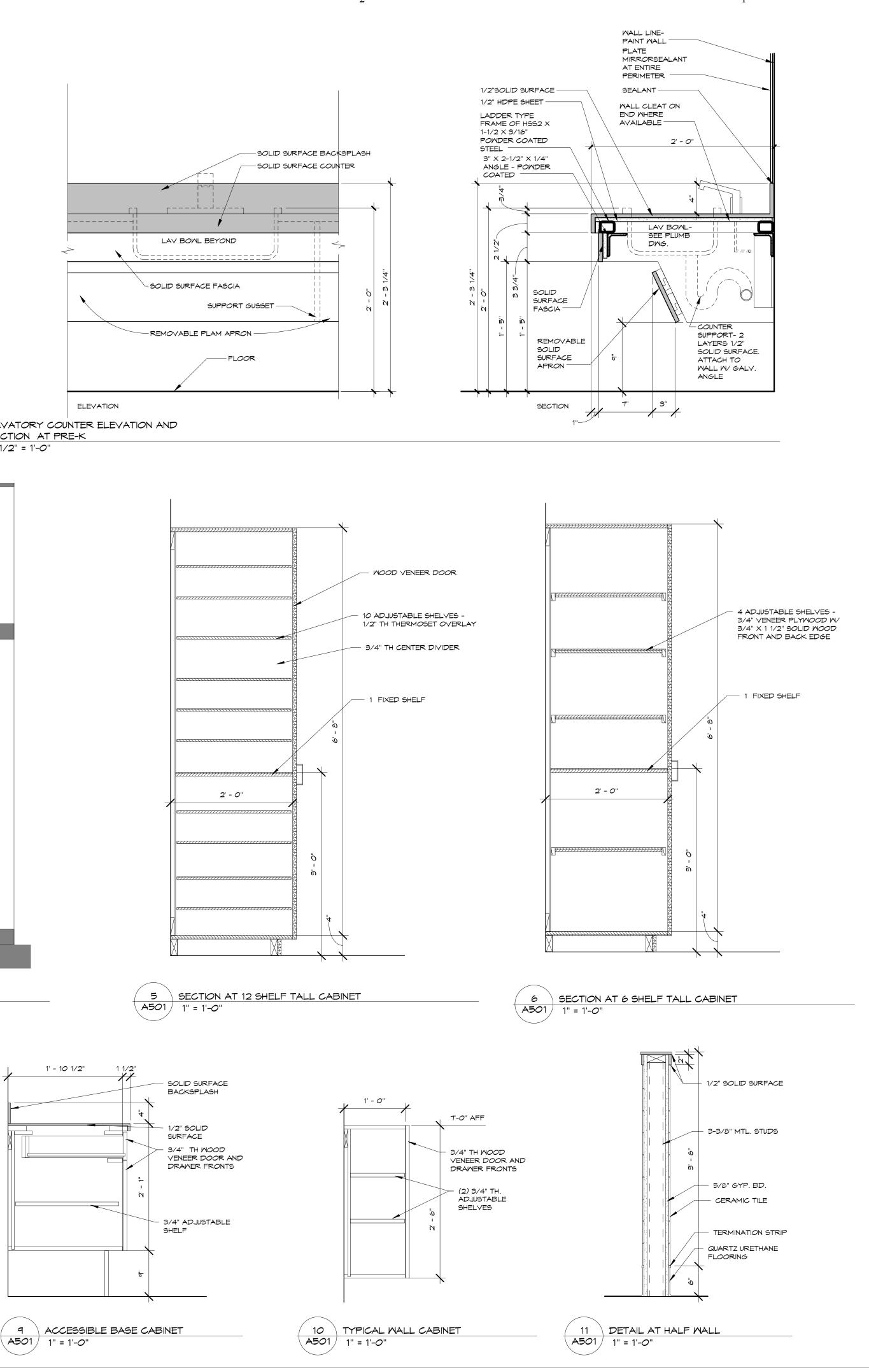


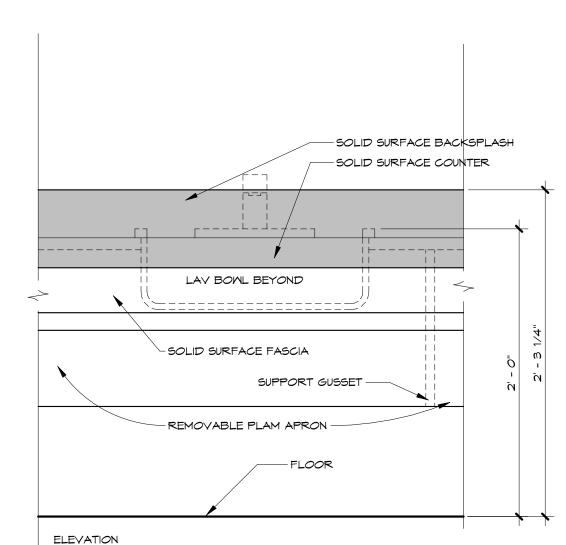


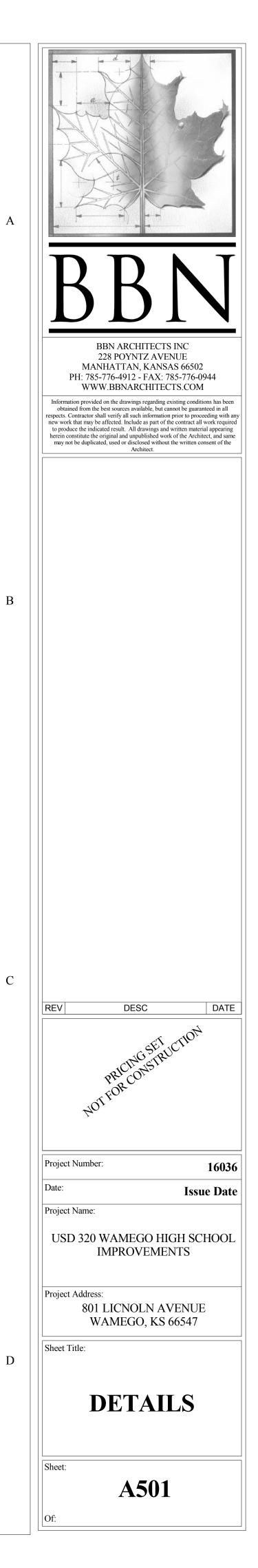












2	
5	

2	

Number 110 111 112 113 115 116 117 118 119 123A 123B 128	Name WOMEN MEN CLASSROOM CORRIDOR PRESCHOOL RESTROOM KITCHEN FACS EQUIP.	Floor Finish Q.F. Q.F. VCT VCT Q.F. Q.F. Q.U.F.	Base Finish Q.F. Q.F. R R	EF EF CMU	orth Finish PT PT	Material	East Finish	So Material	outh Finish	Material	/est Finish	Ceil Finish	ing Height	Comments
111 112 113 115 116 117 118 119 123A 123B	MEN CLASSROOM CORRIDOR PRESCHOOL RESTROOM KITCHEN FACS EQUIP.	Q.F. VCT VCT Q.F.	Q.F. R 	EF										_ <u>I</u>
112 113 115 116 117 118 119 123A 123B	CLASSROOM CORRIDOR PRESCHOOL RESTROOM KITCHEN FACS EQUIP.	VCT VCT Q.F.	R 		PT	EF	PT	EF	PT	EF	PT	APC-2		1
113 115 116 117 118 119 123A 123B	CORRIDOR PRESCHOOL RESTROOM KITCHEN FACS EQUIP.	 VCT Q.F.		CMU	1 1	EF	PT	EF	PT	EF	PT	APC-2		1
115 116 117 118 119 123A 123B	PRESCHOOL RESTROOM KITCHEN FACS EQUIP.	VCT Q.F.			PT	EF	PT	EF	PT	EF	PT	E		
116 117 118 119 123A 123B	RESTROOM KITCHEN FACS EQUIP.	Q.F.	P											
117 118 119 123A 123B	KITCHEN FACS EQUIP.			GWB	PT	GWB	PT	CMU	PT	EF	PT	APC-2	9' - 4"	
118 119 123A 123B	FACS EQUIP.	Q.U.F.	Q.F.	GWB	EPX	EF	EPX	GWB	EPX	GWB	EPX	APC-2	9' - 4"	
119 123A 123B	EQUIP.		Q.U.F.	GWB	PT	EF/GB	PT	GWB	PT	GWB	PT	APC-1	8' - 0"	
123A 123B		Q.U.F.	Q.U.F.	EF/GWB	EPX	EF/GWB	EPX	GWB	EPX	EF	EPX	APC-1		
123B		Q.U.F.	Q.U.F.	EF	EPX	EF	EPX	EF/GWB	EPX	EF	EPX	APC-1	9' - 4"	
	STUDENT AREA	EF	EF	EF	PT	GWB	PT	EF		EF		EF/GWB		
100	UTILITY	EF		EF		EF		GWB	PT	GWB	PT	EXP		
138	HALL	VCT	R	EF	PT	EF	PT	EF	PT	CMU	PT	APC-2		
138A	ALCOVE	VCT	R	CMU	PT	CMU	PT	CMU	PT	CMU	PT	GWB	10' - 0"	
139	LOCKERS	EXP	R	CMU	PT	CMU	PT	CMU	PT	EF	PT	EXP/GWB		
139A	VEST.	EXP	R	CMU	PT	CMU	PT	CMU	PT	CMU	PT	GWB	7' - 9"	
139B	MEETING	VCT	R	CMU	PT	CMU	PT	CMU	PT	CMU	PT	APC-2	9' - 4"	
139C	STORAGE	VCT	R	CMU	PT	CMU	PT	CMU	PT	CMU	PT	GWB	7' - 9"	
139D	TOILETS	TAF	TAF	CMU	EPX	CMU/EF	EPX	CMU	EPX	CMU	EPX	GWB	7' - 9"	
139E	SHOWERS	TAF	TAF	CMU	EPX	CMU	EPX	CMU	EPX	EF/CMU	EPX	GWB	7' - 9"	
140	LOCKERS	EXP	R	CMU	PT	CMU	PT	CMU	PT	EF/CMU	PT	EXP		
140A	VEST.	EXP	R	CMU	EPX	CMU	EPX	CMU	EPX	CMU	EPX	GWB	10' - 0"	
140B	LAUNDRY	TAF	TAF	CMU	EPX	CMU	EPX	CMU	EPX	CMU	EPX	GWB	10' - 0"	
140C	STORAGE	VCT	R	CMU	PT	CMU	PT	CMU	PT	CMU	PT	GWB	10' - 0"	
140D	TOILETS	TAF	TAF	CMU	EXP	CMU	EXP	CMU	EXP	CMU	EXP	GWB	10' - 0"	
140E	SHOWERS	TAF	TAF	CMU	EXP	CMU	EXP	CMU	EXP	EF/CMU	EXP	GWB	10' - 0"	
142	STORAGE	QF	QF	EF	PT	CMU	PT	EF	PT	EF	PT	APC-1	9' - 4"	
143	TRAINING	QF	QF	EF	PT	EF	EPX	EF	PT	CMU	PT	APC-1	9' - 4"	
144	LOCKERS	QF	QF	EF	EPX	EF	EPX	EF/CMU	EPX	EF/CMU	EPX	EF		
145	TOILETS	QF	QF	EF	EPX	EF	EPX	EF	EPX	EF	EPX	EF		
146	SHOWER	EF	EF	EF	EPX	EF	EPX	EF	EPX	EF	EPX	EF		
149	OFFICE	SC	R	EF/CMU	EPX	EF	EPX	EX	EPX	EX	EPX	APC-2	9' - 0"	
150	LOCKERS	SC	R	EF	EPX	EF	EPX	EX	EPX	EX	EPX	EF		
151	SHOWER	EF	EF	EF	EPX	EF	EPX	EX	EPX	EX	EPX	EF		
152	TOILETS	QF	QF	EF	EPX	EF	EPX	EX	EPX	EX	EPX	EF		
154	EQUIPMENT	SC	R	EF	EPX	EF	EPX	EX	EPX	EX	EPX	EF		
155	LOCKERS	SC	R	EF	EPX	EF	EPX	EX	EPX	EX	EPX	EF		
156	TOILETS	QF	QF	EF	EPX	EF	EPX	EX	EPX	EX	EPX	EF		
157	SHOWER	EF	WF	EF	EPX	EF	EPX	EX	EPX	EX	EPX	EF		
160	OFFICE	SC	R	EF	EPX	EF	EPX	EF/CMU	EPX	EX	EPX	APC-2	9' - 0"	-
161	LOCKERS	SC	R	EF/CMU	EPX	EF	EPX	EF	EPX	EX	EPX	EF		
161A	STORAGE	SC	R	EF	EPX	EF	EPX	EF	EPX	EX	EPX	EF		
162	SHOWER	EF	EF	EF	EPX	EF	EPX	EF	EPX	EX	EPX	EF		
163	TOILETS	QF	QF	EF	EPX	EF	EPX	EF	EPX	EX	EPX	EF		
164	STORAGE	SC	R	EF	EPX	EF	EPX	EF	EPX	EX	EPX	EF		
175A	ALCOVE	SC	R	EF	EPX	EF	EPX	EF	EPX	EX	EPX	EF		
204	JAN.													
205	WOMEN	QF	QF	EF	PT	EF	PT	EF	PT	EF	PT	APC-2		1
206	MEN	QF	QF	EF	PT	EF	PT	EF	PT	EF	PT	APC-2		1
209	CORRIDOR													-
212	CLASSROOM													2
212	STUDENT AREA	EF	EF	EF	PT	EF/GWB	PT	EF		EF		EF/GWB		-

FLOOR FINISH

EF - EXISTING FINISH

TAF -TROWELLED AGGREGATETAF -TROWELLED AGGREGATEFLOORINGFLOORING - INTEGRATEDQF - QUARTZ FLOORINGBASE 6"

QF - QUARTZ FLOORING QF - QUARTZ FLOORING -QUF -QUARTZ URETHANE FLOORING INTEGRATED BASE 6"

VCT - VINYL COMPOSITION TILE SC - SEAL EXISTING CONCRETE BASE MATERIAL

- EF EXISTING FINISH
- EXP EXPOSED SEALED CONCRETE R 4" RUBBER COVE BASE

QUF -QUARTZ URETHANE FLOORING INTEGRATED BASE 6"

MALL MATERIAL

EF - EXISTING MATERIAL

GWB - GYPSUM WALL BOARD PT - PAINT

EF - EXISTING FINISH

MALL FINISH

CMU - CONCRETE MASONRY UNITS EPT - EPOXY PAINT

EF - EXISTING FINISH GWB - PAINTED GYPSUM WALL BOARD EPX - EPOXY PAINT

 FRP -FIBERGLASS REINFORCED
 APC1- ACOUSTICAL PANEL CEILING - TYPE 1

 PLASTIC WALL PANELS
 APC2- ACOUSTICAL PANEL CEILING - TYPE 2

 APC2- ACOUSTICAL PANEL CEILING - TYPE 2

1/4" = 1'-0"

ROOM FINISH SCHEDULE LEGEND

EXP - EXPOSED STRUCTURE

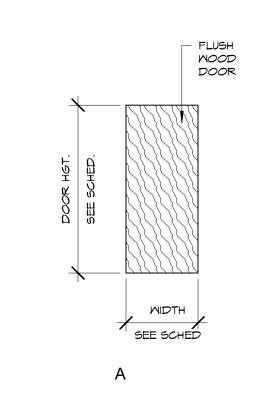
COMMENTS:

1. PROVIDE NEW PANELS IN EXISTING SUSPENSION SYSTEM

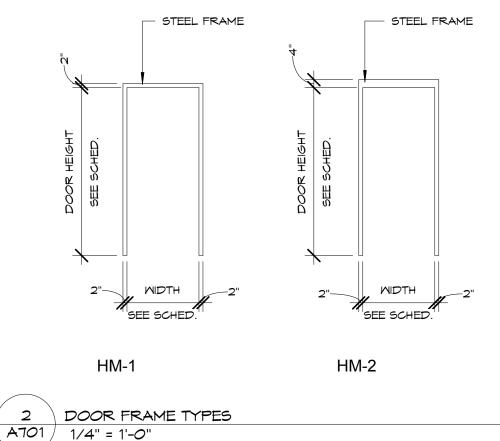
2. PATCH AND PAINT WALL AT RELOCATED GRILL. PAINTENTIRE WALL. CORNER TO CORNER

A	<image/> <section-header></section-header>
В	new work that may be affected. Include as part of the contract all work required to produce the indicated result. All drawings and written material appearing herein constitute the original and unpublished work of the Architect, and same may not be duplicated, used or disclosed without the written consent of the Architect.
C	REV DESC DATE
D	Project Number: 16036 Date: Issue Date Project Name: USD 320 WAMEGO HIGH SCHOOL IMPROVEMENTS Project Address: 801 LICNOLN AVENUE WAMEGO, KS 66547 Sheet Title: FINISH SCHEDULE Sheet: A601

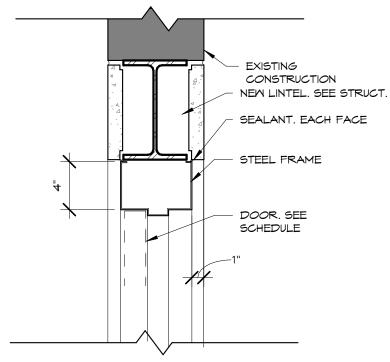
CEILING

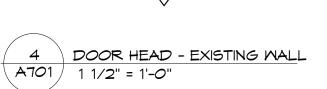


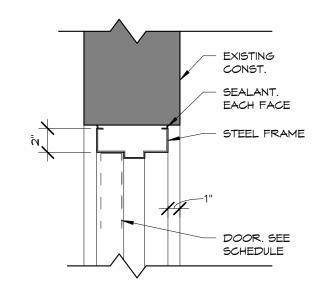


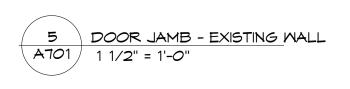


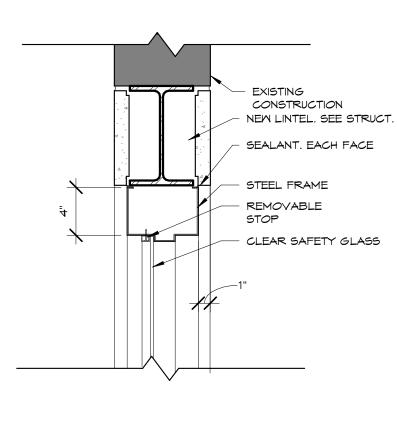
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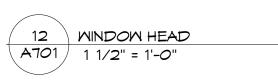


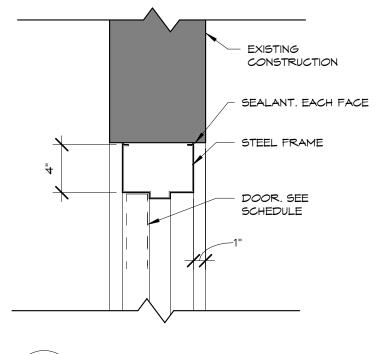


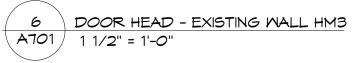


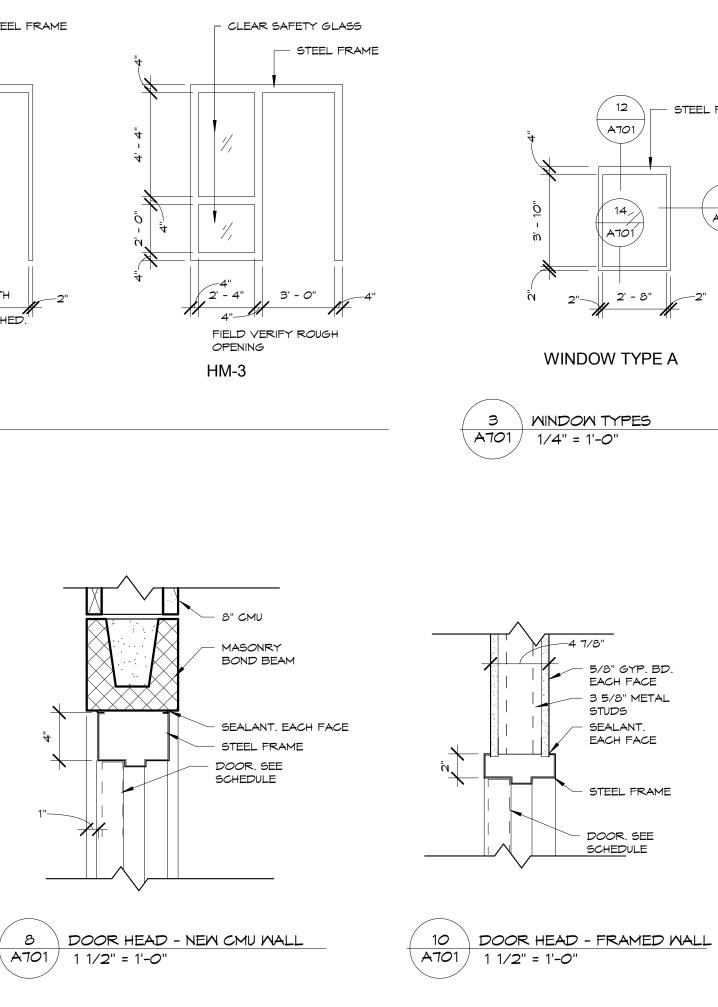


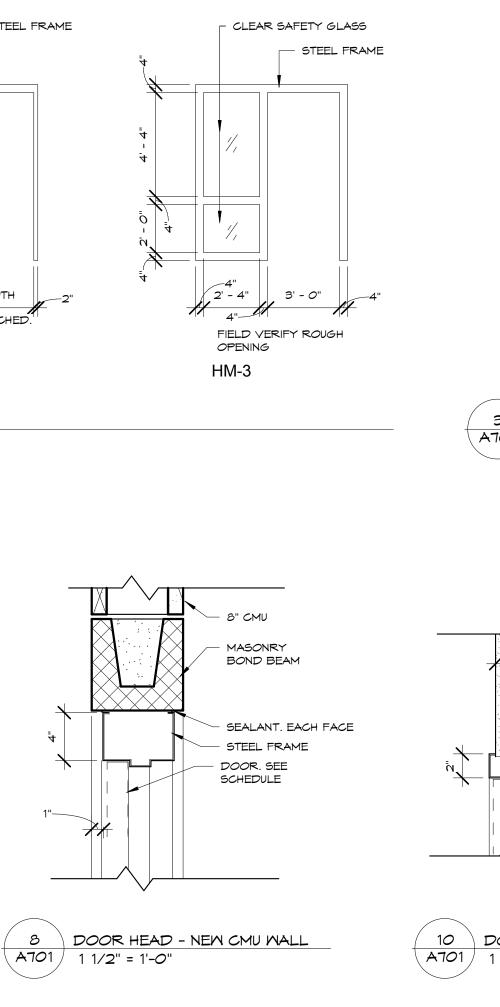


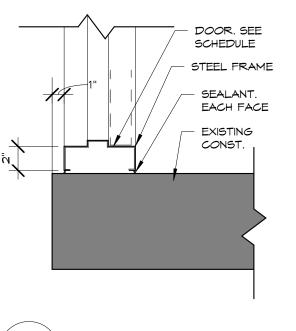


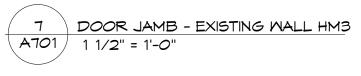


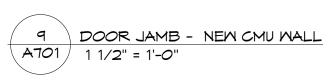


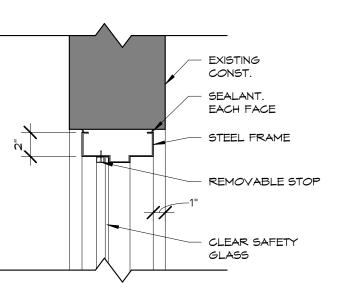




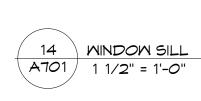












12 STEEL FRAME

13 \

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____2"

A701

14_>

2' - 8"

A701

WINDOW TYPE A

-4 7/8"

- 5/8" GYP. BD. EACH FACE

- 3 5/8" METAL

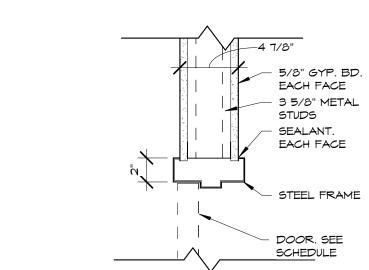
STEEL FRAME

- DOOR. SEE SCHEDULE

STUDS

SEALANT. EACH FACE





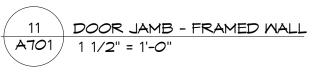
- 8" CMU

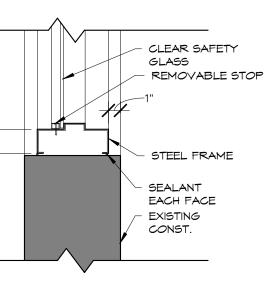
SEALANT.

EACH FACE

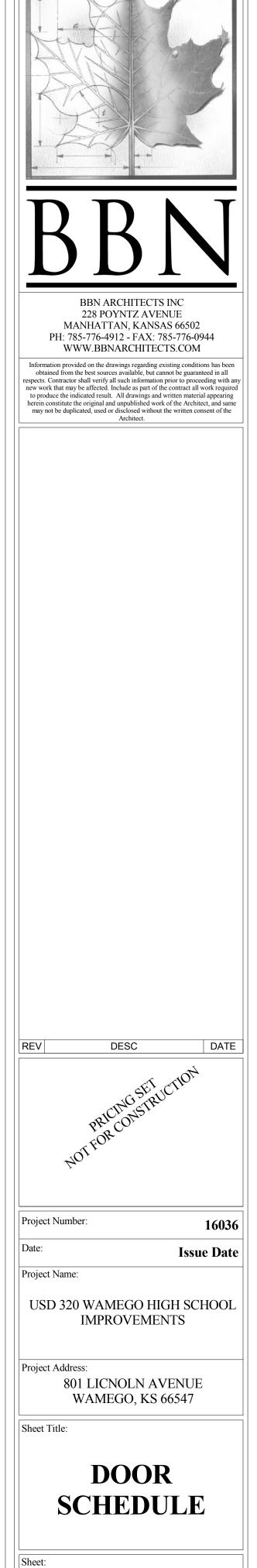
STEEL FRAME

- DOOR. SEE SCHEDULE





				[DOOR & FRAI	ME SCHEDU	ILE			
	DOOR SIZE TY		TY	PE	FIRE	DETAILS			HARDWARE	
DOOR	WIDTH	HEIGHT	DOOR	FRAME	RATING	HEAD	JAMB	SILL	SET	COMMENTS
110	6' - 0"	7' - 0"	EXISTING							1
111	6' - 0"	7' - 0"	EXISTING							1
115A	3' - 0"	7' - 0"	EXISTING							1
115B	3' - 0"	7' - 0"	EXISTING							1
116	3' - 0"	7' - 0"	A	HM-1						•
118A	3' - 0"	7' - 0"	EXISTING							1
118B	3' - 0"	7' - 0"	A	HM-1						•
123B	3' - 0"	7' - 0"	A	HM-1						
138A	3' - 0"	7' - 0"	EXISTING							1
138B	8' - 0"	7' - 0"	EXISTING							1
139A	3' - 0"	7' - 0"	A	HM-2						•
139A 139B	3' - 0"	7'-0"	A	HM-2						
139D 139C	3' - 0"	7'-0"	A	HM-2						
140A	3' - 0"	7' - 0"	A	HM-2						
140A 140B	4' - 0"	7' - 0"	A	HM-2	1-HR					
140D 140C	3' - 0"	7'-0"	A	HM-2	1-111					
140C 140D	3' - 0"	7'-0"		HM-2	1-HR					
	3' - 0"	7'-0"	A	HM-2						
142		7'-0"								1
143A	3' - 0"		EXISTING							1
143B	3' - 0"	7' - 0"	EXISTING							1
144	3' - 0"	7' - 0"	EXISTING							
144B	3' - 0"	7' - 0"	EXISTING							1
149	2' - 11"	7' - 0"	A	HM-3						
150	3' - 0"	7' - 0"	EXISTING							1
154	3' - 0"	7' - 0"	A	HM-2					_	
155	3' - 0"	7' - 0"								
155	3' - 0"	7' - 0"	EXISTING							1
160	2' - 10"	7' - 0"	A	HM-3						
161	3' - 0"	7' - 0"	EXISTING							1
161A	3' - 0"	7' - 0"	EXISTING							1
161B	3' - 0"	7' - 0"	EXISTING							1
164	3' - 0"	7' - 0"	EXISTING							1
197	3' - 0"	7' - 0"								
205	3' - 0"	7' - 0"	EXISTING							1
206 COMMENTS:	3' - 0"	7' - 0"	EXISTING							1



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Of:

GENERAL DEMOLITION NOTES

4

1. Coordinate cutting and patching of all building surfaces with general contractor.

-5

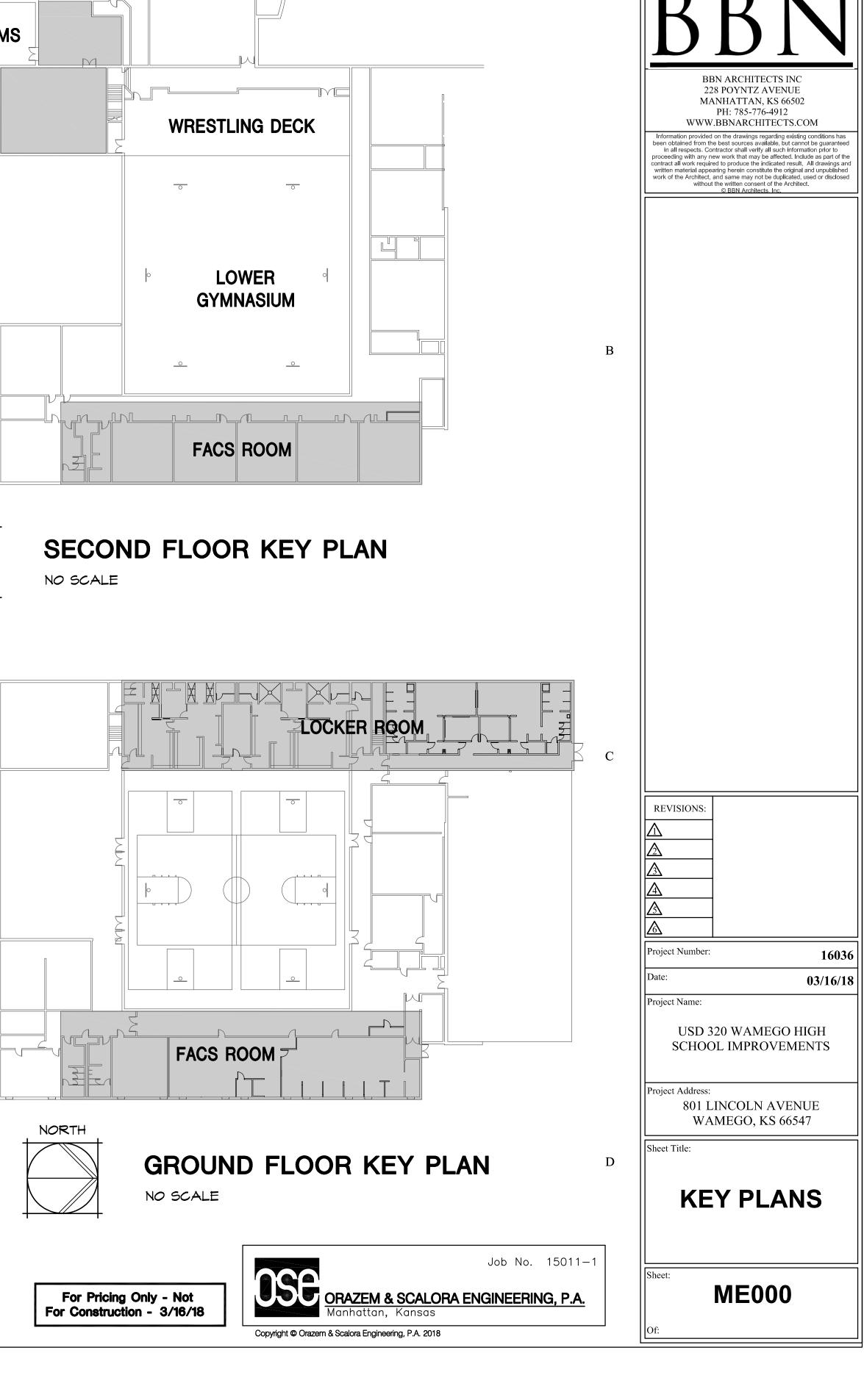
- 2. Coordinate sequence of work and interruption of services with general contractor and owner, see specifications.
- 3. Deliver all equipment to owner or dispose of as directed by owner.
- 4. Systems serving areas outside of the renovation area are to have temporary provisions to allow for continued operation of those systems during the renovation.

		Μ	EP SYMBOLS LEGEND		
Ū	Thermostat	G	Natural gas	Фwр	Weatherproof duplex receptacle
T	Temperature sensor		Sanitary waste above grade	Ф тр	Tamper resistant duplex receptacle
H	Humidity sensor		Sanitary waste below grade	•	Four-plex receptacle
CO ₂	Carbon dioxide sensor		Sanitary vent	Ø	Special receptacle as noted
6 10	90° Elbow down, round duct	VTR	Vent through roof	\bigtriangledown	Data box
	90° Elbow up, round duct		Plumbing trap	∇ст	Countertop data box
ണം	Round duct offset		Pipe turning down	\odot	Flush floor duplex receptacle
۲.	Radius elbow	o	Pipe turning up	Ū	Flush junction box
	90° Elbow down, rectangular supply duct	<u></u>	Shock arrestor	0	Surface or concealed junction box
	90° Elbow up, rectangular supply duct	-	Ball valve	+	Electrical connection to equipment
E II	90° Elbow down, rectangular return duct	→	Gate valve	\$	Single pole switch
Ę I	90° Elbow up, rectangular return duct		Check valve	\$κ	Keyed switch
	Rectangular elbow with turning vanes	 #	Butterfly valve	\$3	Three-way switch
~~~~	Flexible duct	<b>è</b>	Gas cock	\$ <u>M</u>	Manual motor starter
	Manual balancing damper	— <del>  </del>	Union	C	Electrical disconnect switch
•	Motorized damper	<u> </u>	Gauge	⊠	Motor starter
8	Fire damper	<u> </u>	Test plug	¥	Combination motor starter/disconnect switch
o	Smoke damper		Reducer	— Е —	Electrical
D	Combination fire/smoke damper		Thermometer in well	,、	Conduit concealed in wall or ceiling
	Backdraft damper	<b>U</b>	mermometer in weil		Homerun to panelboard with conductors as indicated. Do not share neutrals
<u> </u>	Ceiling supply air diffuser	<del></del>	Temperature sensor in well	~ N ⁺⁺	unless noted otherwise.
	Ceiling return air grille	<u>ــــــــــــــــــــــــــــــــــــ</u>	Wall mounting bracket		Panelboard
-	Sidewall supply air diffuser	6	Intercom speaker		Transformer
<b>↓</b>	Sidewall return air grille	Ø	Analog clock		Electrical meter
	Supply air slot diffuser		Fire alarm horn/strobe	•	Connection of new to existing
t O t	Round tap in bottom of duct	F	Fire alarm pull station	е	Existing device
	Rectangular tap in bottom of duct	D	Fire alarm duct smoke detector	С∖В	Circuit breaker
D	Condensate drain		Fire alarm test switch	UNO	Unless noted otherwise
·	Cold water	R	Fire alarm relay/addressable control module	AFF	Above finished floor
·	Hot water	M	Fire alarm addressable monitor module	NIC	Not in contract
	Recirculated water		Fire alarm strobe	G.C.	General Contractor
— нs —	Hot water supply	FACP	Fire alarm control panel	SM	Surface mount
HR	Hot water return	Φ	Duplex receptacle	WAP	Wireless access point
— снs —	Chilled water supply		Ground fault interrupting duplex receptacle	WP	Weatherproof
CHR	Chilled water return	Фст	Countertop duplex receptacle	_	

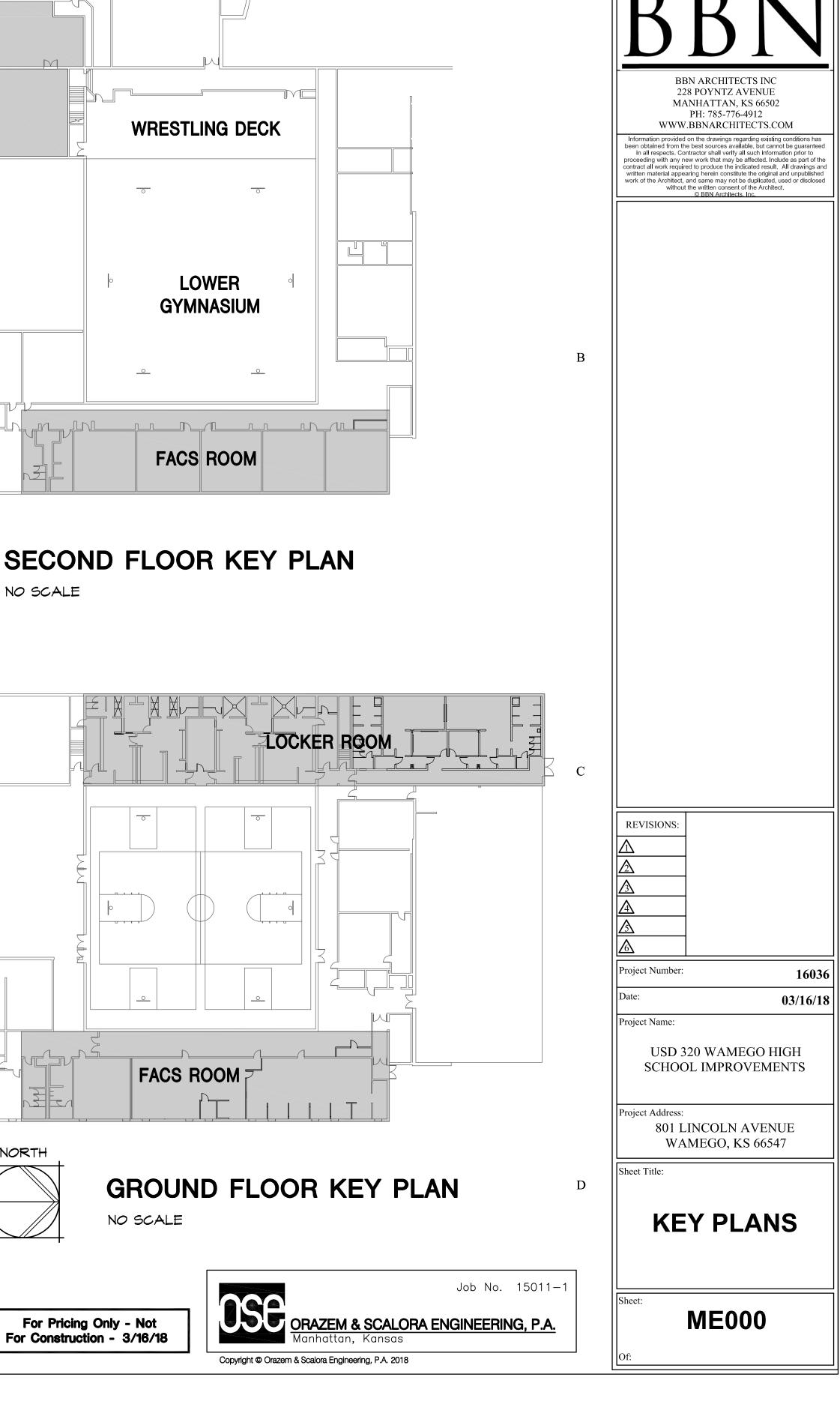
# GENERAL MECHANICAL AND ELECTRICAL NOTES

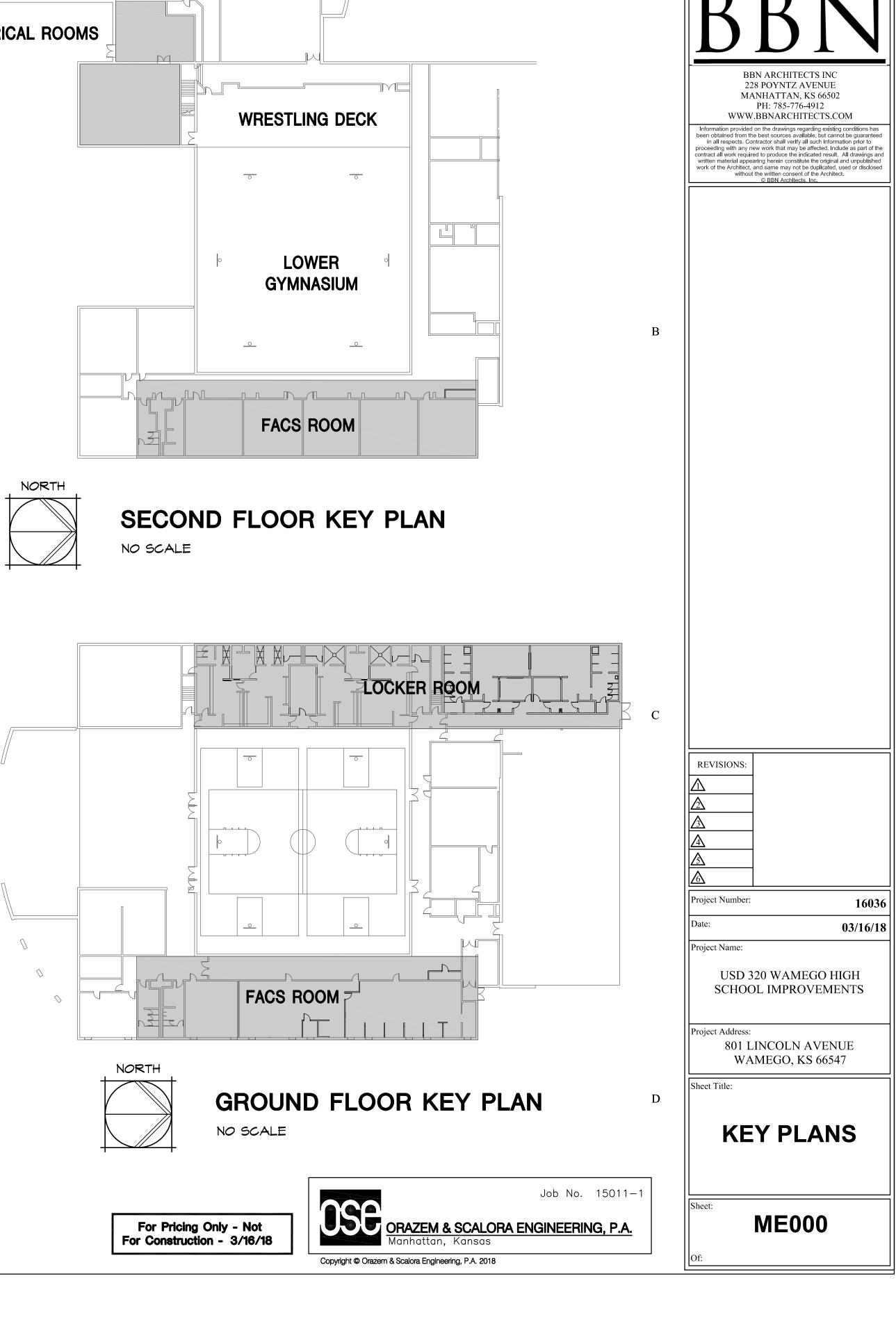
- 1. Do not scale these drawings. 2. These drawings were produced from original drawings, and field survey and measurements. Existing architectural and structural characteristics of the building which are represented on these drawings are believed to be accurate. However, the contractor shall verify all conditions, materials, and sizes at the site. The contractor shall verify locations and sizes of all below floor and above floor piping, ductwork, and circuitry, and modify as required for new work.
- 3. Submittal of detailed piping and electrical conduit installation shop drawings are not required. However, the Contractor shall be responsible for field verification of all dimensions and clearances for all system layouts. This shall be accomplished prior to installation.
- 4. Maintain maximum possible vertical clearance beneath all new conduit, equipment and piping.
- 5. These drawings are a schematic representation of the work that is to be accomplished by this Contract. Field coordinate the exact locations of all ceiling and wall mounted devices and equipment.
- 6. Lack of coordination between trades will not be a basis for change orders. Rework of already completed work to accommodate other trades will be performed at the Contractors' expense.
- 7. Where services to existing equipment, devices or systems which are to remain are interrupted in this work, such services shall be restored so that the existing systems are left in working order.
- 8. See Specifications for additional requirements.
- 9. All new piping shall be installed concealed wherever practicable. Where piping must be exposed, obtain Architect's approval for routing prior to installation.
- 10. All new circuitry shall be concealed wherever practicable. Where circuitry must be exposed, utilize metal surface raceway equivalent to Wiremold unless noted otherwise. Obtain Architect's approval for routing prior to installation.
- 1. Provide cutting and patching of walls, floors and ceilings as necessary to complete new work.

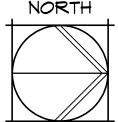
# ELECTRICAL ROOMS M

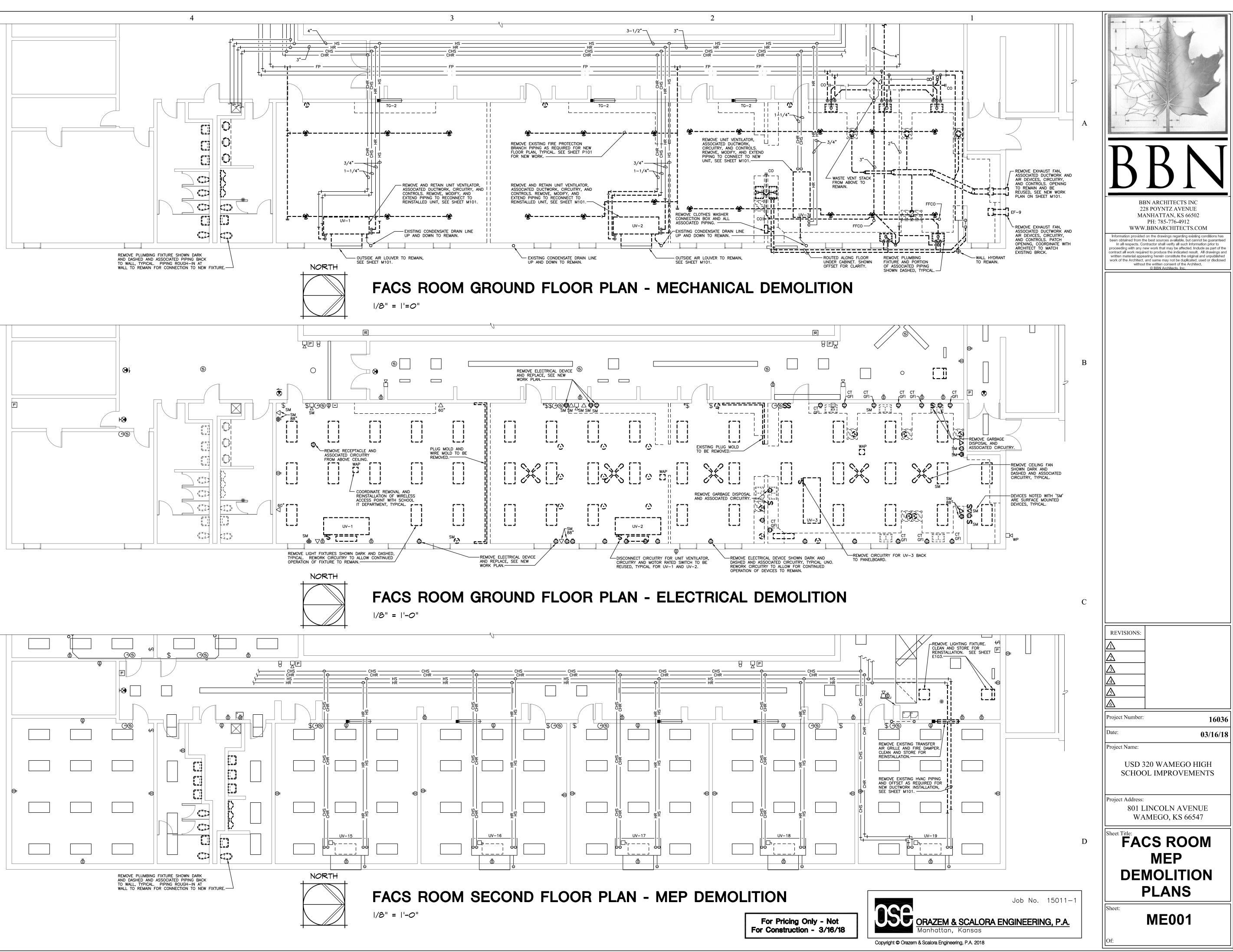


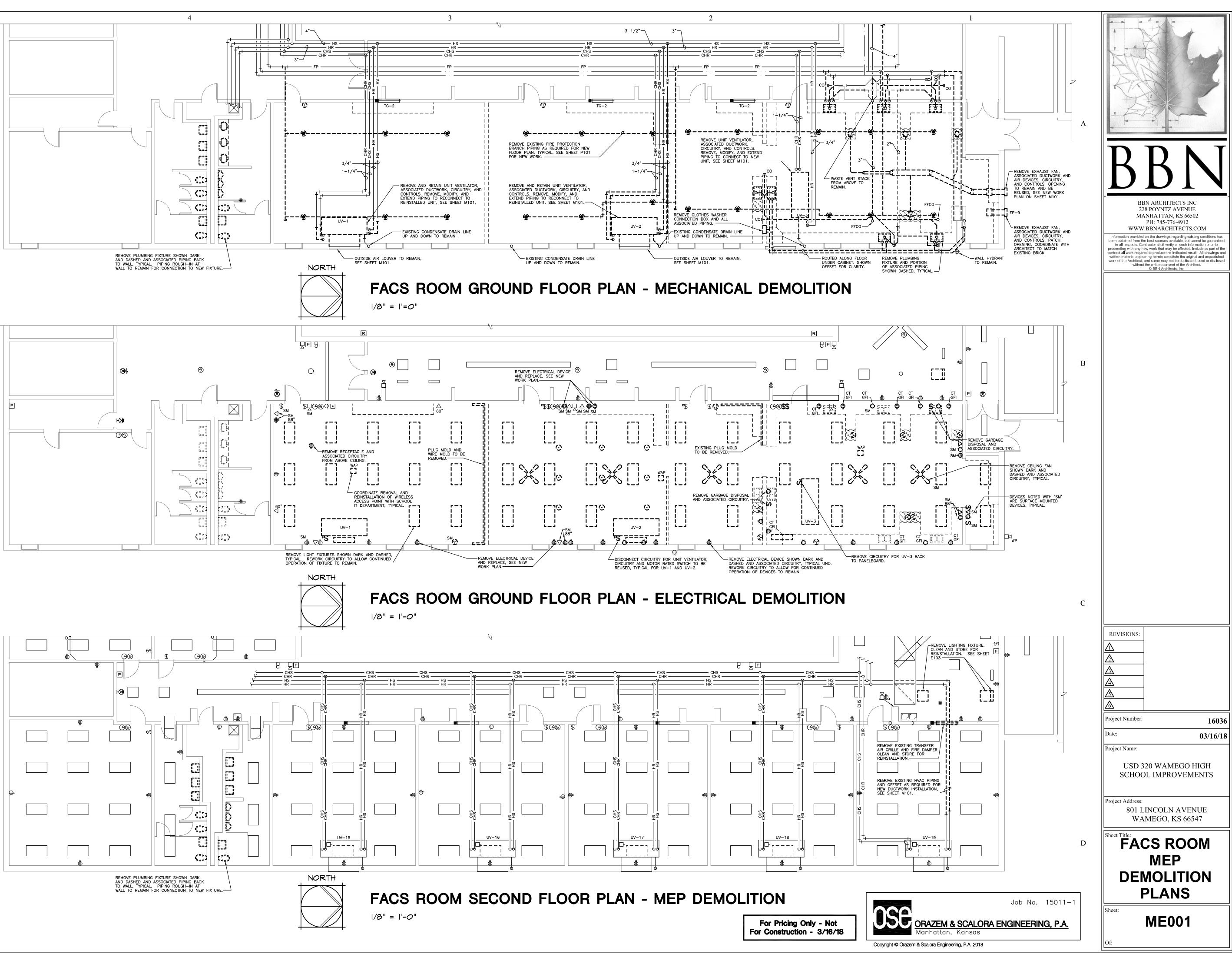


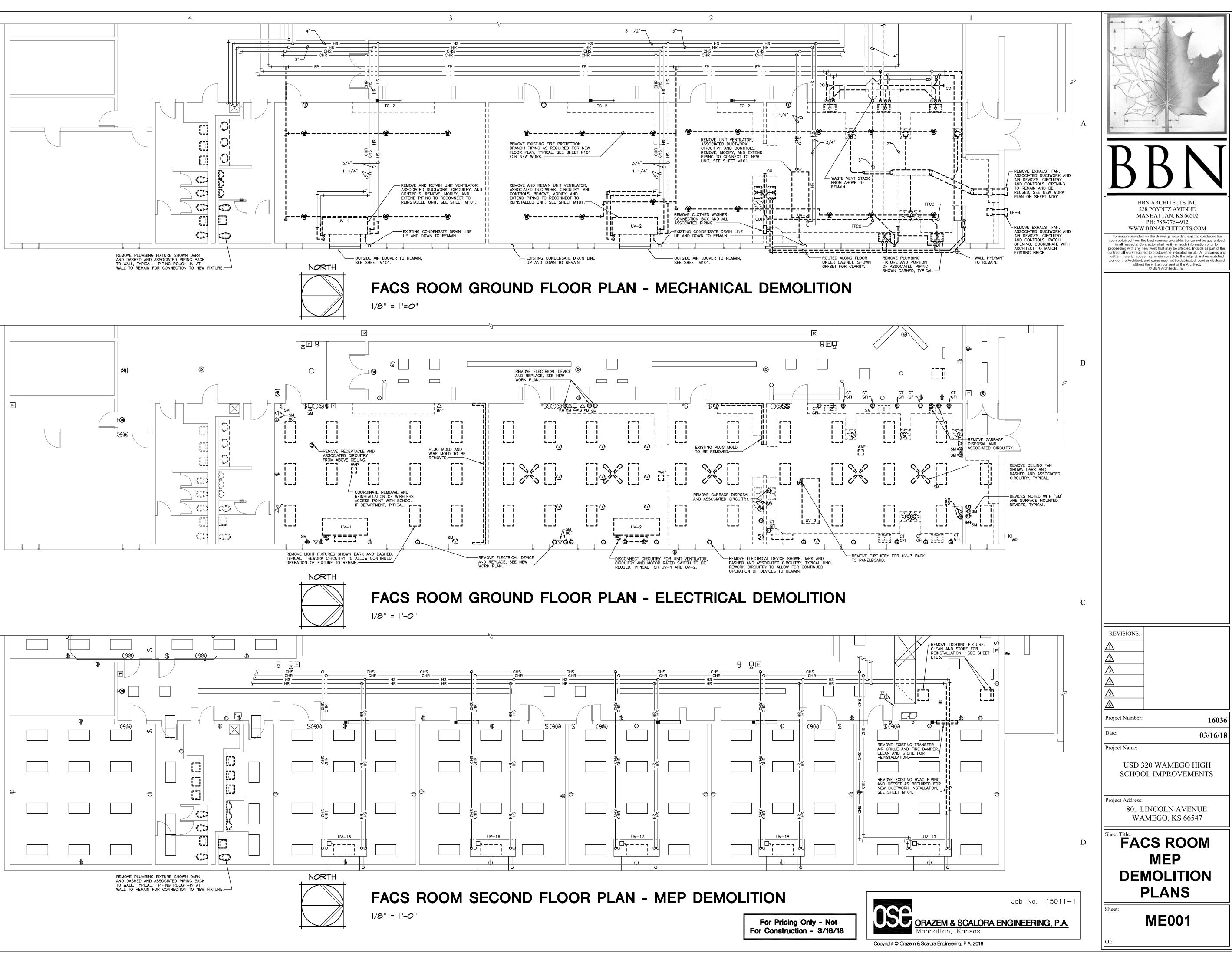


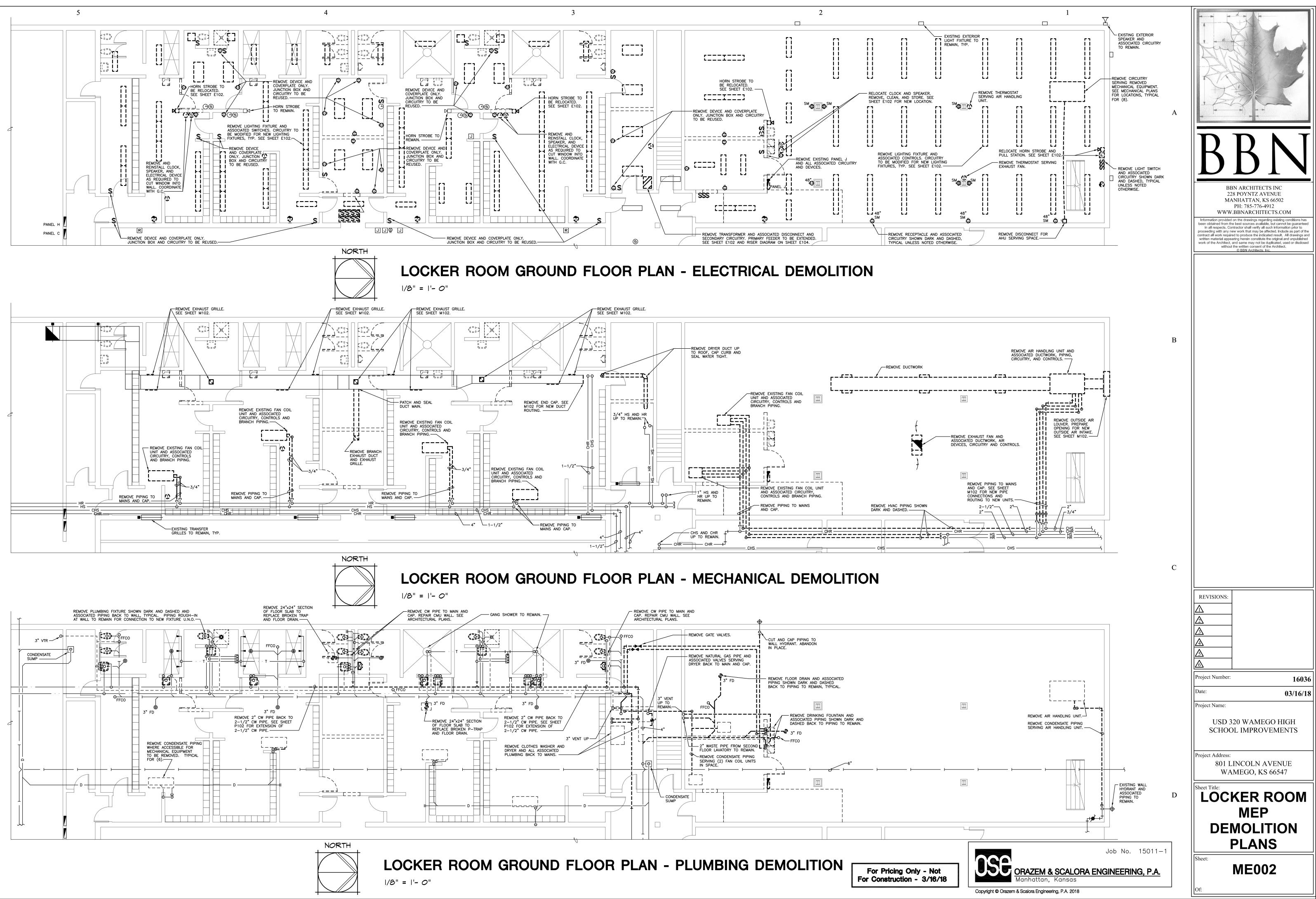


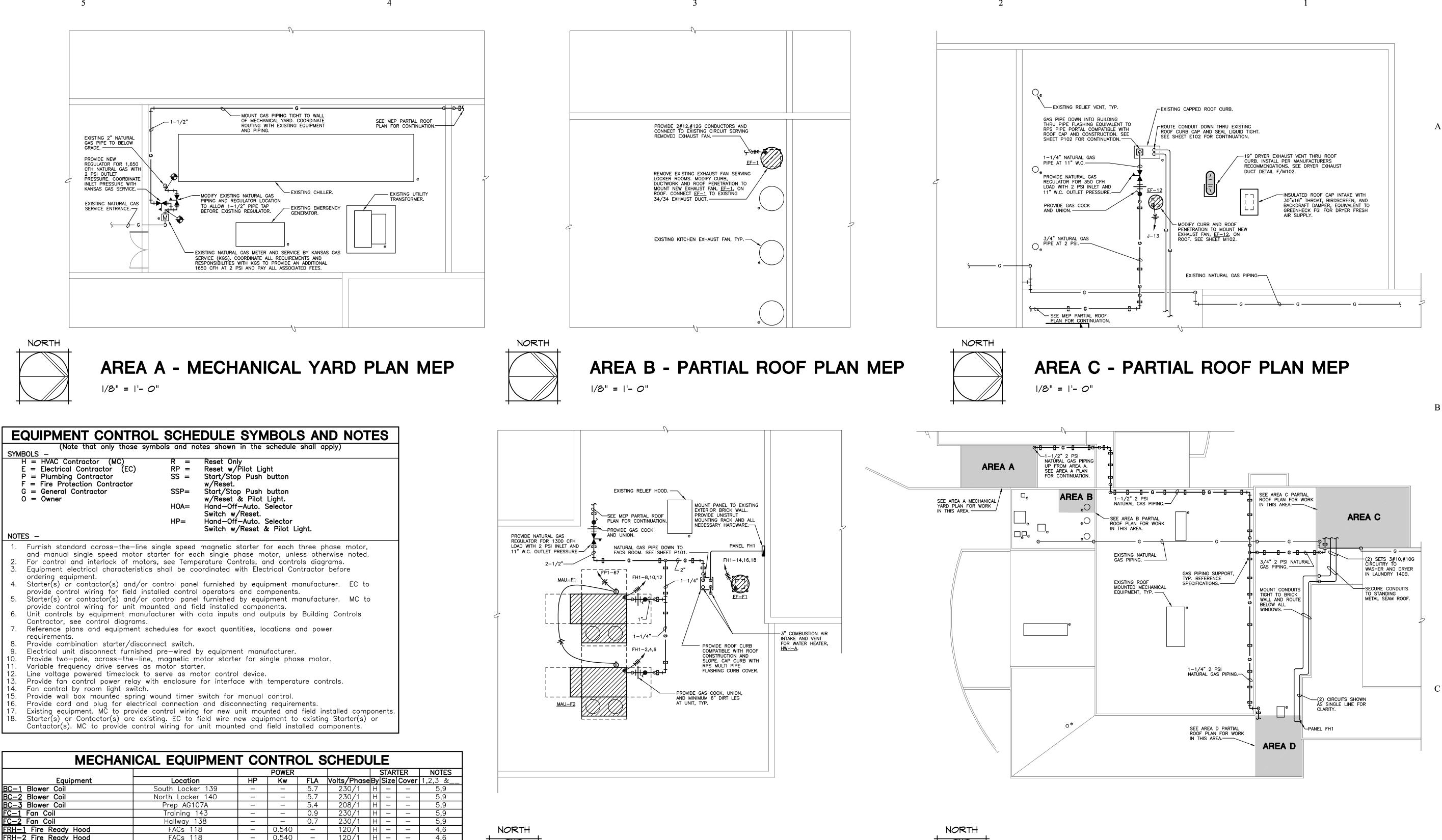








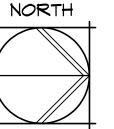




- 18.

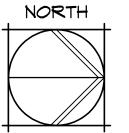
MECHAN	ICAL EQUIPMEN	CONTROL S	CHEDL	JLΕ
		DOWED		

				POWER			TER	NOTES
Equipment	Location	HP	Kw	FLA	Volts/Phase	By Size	Cover	1,2,3 &
<u>BC–1</u> Blower Coil	South Locker 139	-	-	5.7	230/1	Η –	_	5,9
<u>BC–2</u> Blower Coil	North Locker 140	-	-	5.7	230/1	Η –	-	5,9
<u>BC–3</u> Blower Coil	Prep AG107A	-	-	5.4	208/1	Η –	-	5,9
<u>FC—1</u> Fan Coil	Training 143	-	1	0.9	230/1	Η –	-	5,9
<u>FC—2</u> Fan Coil	Hallway 138	-	-	0.7	230/1	Η –	-	5,9
<u>FRH—1</u> Fire Ready Hood	FACs 118	-	0.540	1	120/1	Η –	-	4,6
<u>FRH—2</u> Fire Ready Hood	FACs 118	-	0.540	-	120/1	Η –	_	4,6
<u>FRH—3</u> Fire Ready Hood	FACs 118	-	0.540	-	120/1	Η –	-	4,6
<u>FRH—4</u> Fire Ready Hood	FACs 118	-	0.540	-	120/1	Η –	-	4,6
<u>FRH—5</u> Fire Ready Hood	FACs 118	-	0.540	-	120/1	Η –	-	4,6
<u>FRH—6</u> Fire Ready Hood	FACs 118	-	0.540	1	120/1	Η –	-	4,6
<u>EF—1</u> Exhaust Fan	Roof	2	-	1	480/3	H 00	-	9,18
<u>EF—12</u> Exhaust Fan	Roof	1/4	-	1	120/1	Η –	-	5,9,13
<u>EF—F1</u> Exhaust Fan	Roof	1-1/2	-	1	480/3	Η –	-	4,9
<u>EF-P1</u> Exhaust Fan	Roof	-	0.015	1	120/1	Η –	-	4,9,14
<u>MAU-F1</u> Make-up Air Unit	Roof	-	-	24	480/3	Η –	-	5,6
<u>MAU-F2</u> Make-up Air Unit	Roof	-	-	32	480/3	Η –	-	5,6,11
UV—1 Relocated Unit Ventilator	Roof	-	-	5	120/1	Η –	-	17
UV-2 Relocated Unit Ventilator	Roof	-	-	5	120/1	Η –	_	17
<u>DH—1</u> Electric Duct Heater	Classroom 112	-	5	-	277/1	Η –	-	5
<u>DH-2</u> Electric Duct Heater	Preschool 115	-	5	-	277/1	Η –	-	5
<u>DH-3</u> Electric Duct Heater	FACs 118	-	5	-	277/1	Η –	-	5
HWP Hot Water Circulation Pump	Room 123B	-	1/35	-	120/1		_	4,16



|/8" = |'- *0*"

## AREA D - PARTIAL ROOF PLAN MEP





PARTIAL ROOF PLAN MEP

С	
	REVISIONS:   A   A   A   A   A   A   A   A   A   A   A   A   A   A   A   A   A   A   A   A   A   A   A   A   A   A   A   A   A   A   A   A   A   A   A   A   A   A   A   A   A   A   A   A   A   A   A   A   A   A   A   A   A   A   A   A   A   A   B   Project Name:
)	USD 320 WAMEGO HIGH SCHOOL IMPROVEMENTS Project Address: 801 LINCOLN AVENUE WAMEGO, KS 66547 Sheet Title: MEP ROOF PLAN
	Sheet: <b>ME100</b> Of:

Job No. 15011-1

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Manhattan, Kansas

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100

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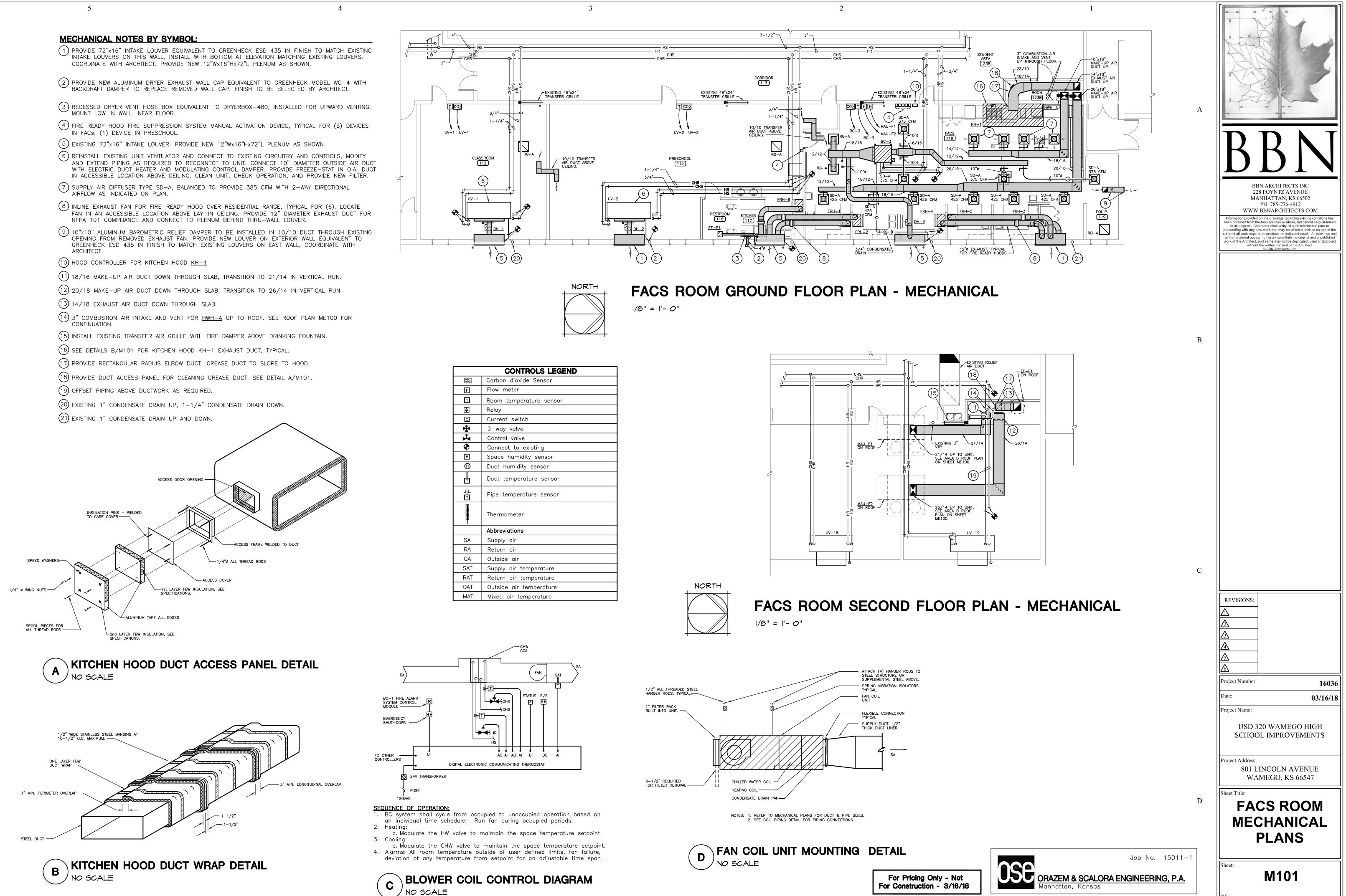
228 POYNTZ AVENUE MANHATTAN, KS 66502

PH: 785-776-4912 WWW.BBNARCHITECTS.COM

Information provided on the drawings regarding existing conditions has been obtained from the best sources available, but cannot be guarantee

in all respects. Contractor shall verify all such information prior to proceeding with any new work that may be affected. Include as part of the

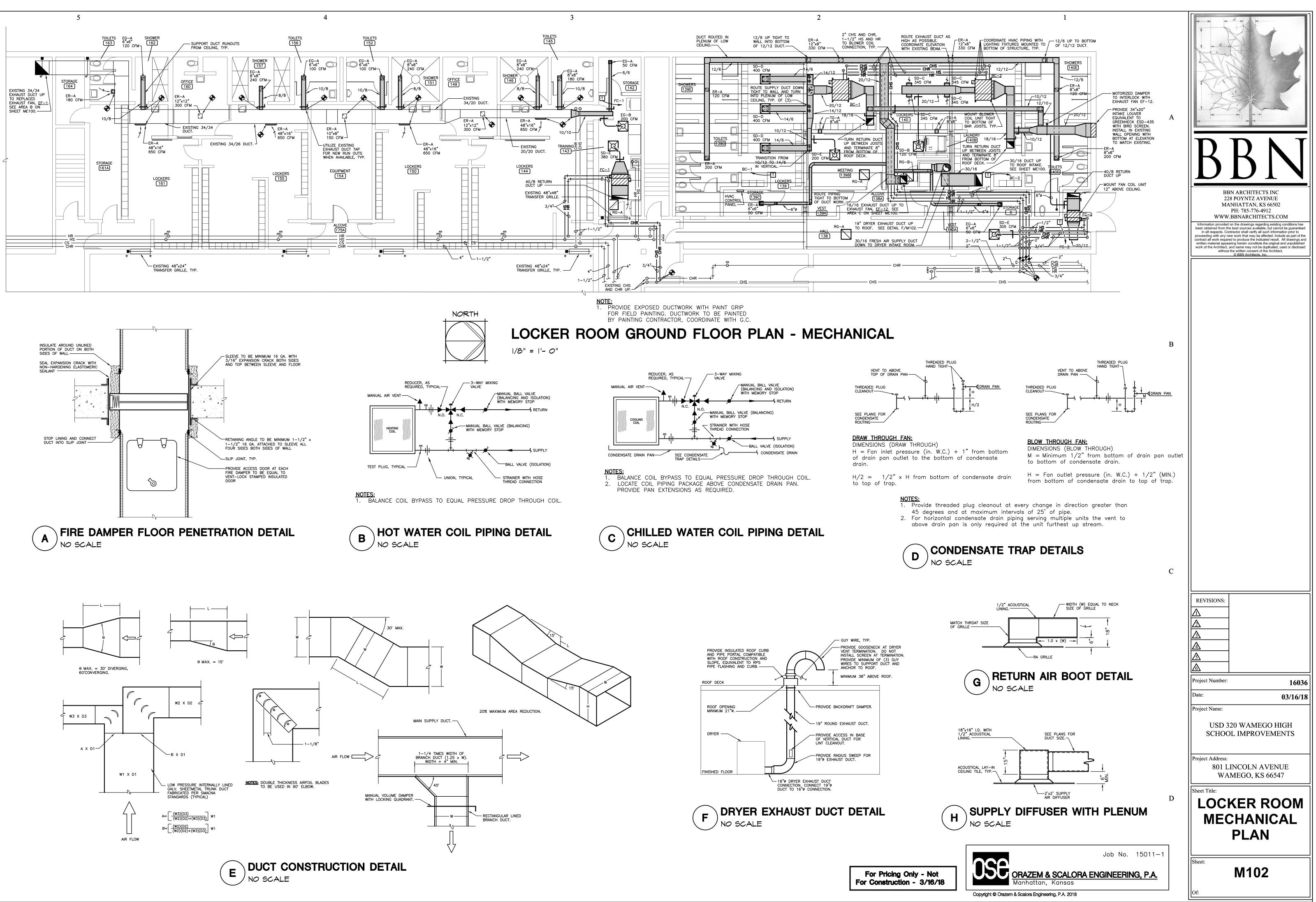
contract all work required to produce the indicated result. All drawings an written material appearing herein constitute the original and unpublished work of the Architect, and same may not be duplicated, used or disclosed without the written consent of the Architect. © BBN Architects. Inc.

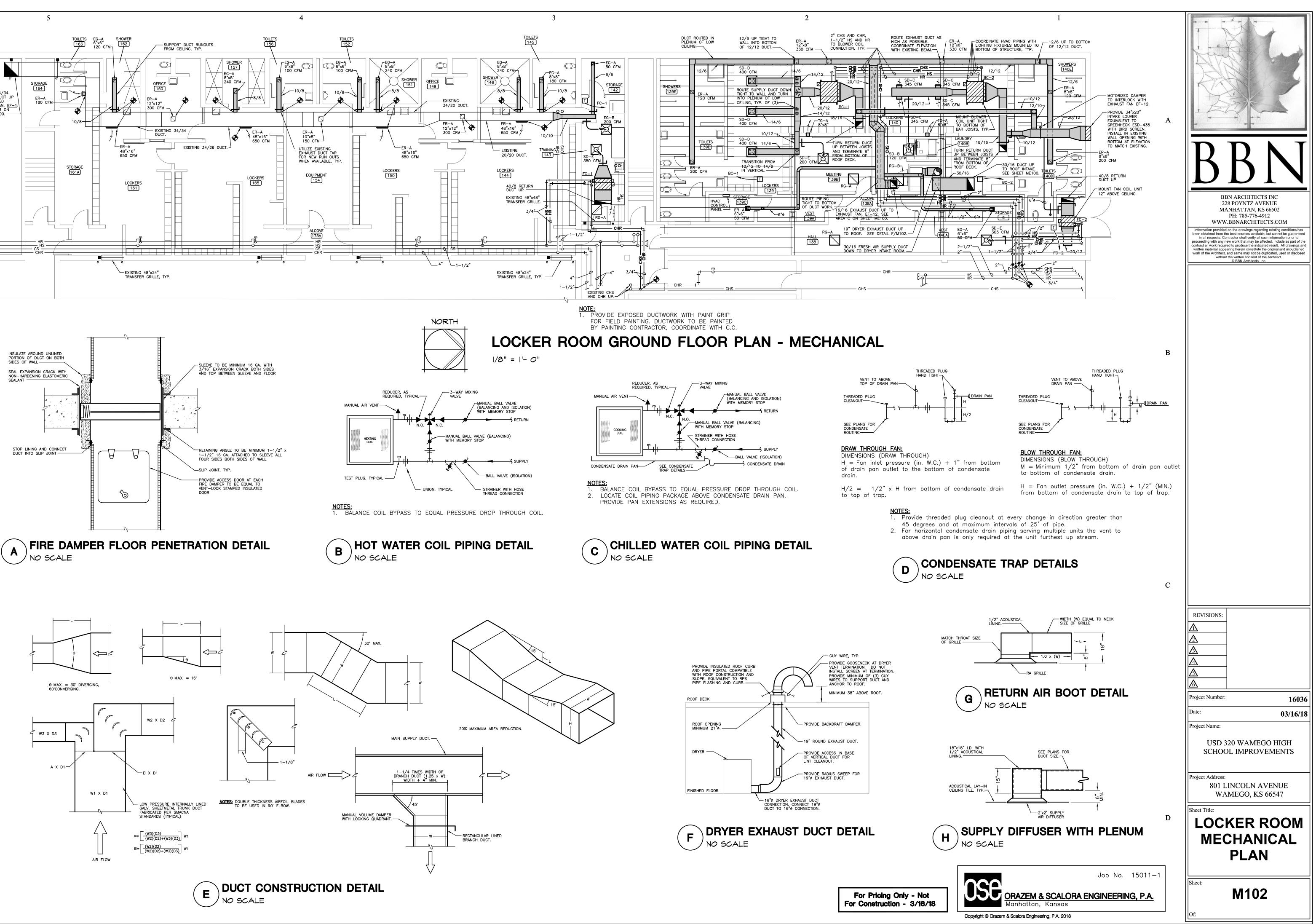


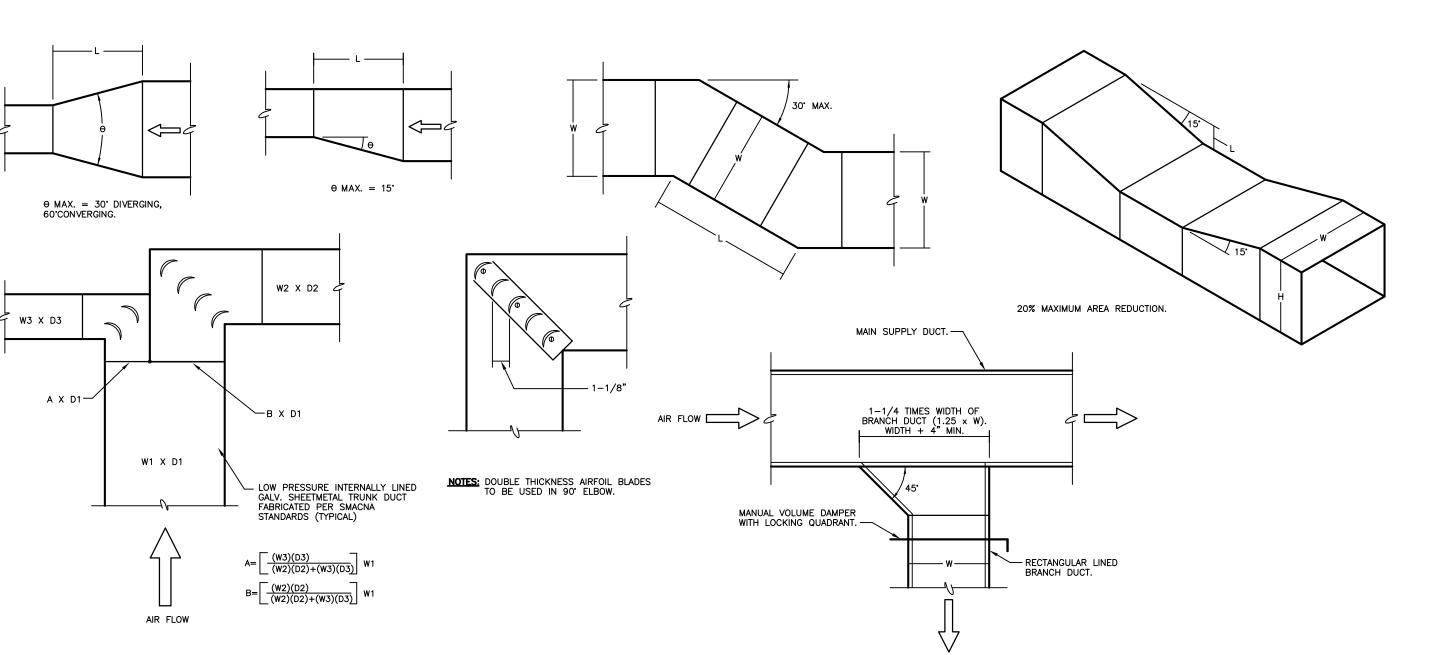
FACS ROOM GROUND FLOOR PLAN - I	ME
/8" =  '- <i>O</i> "	

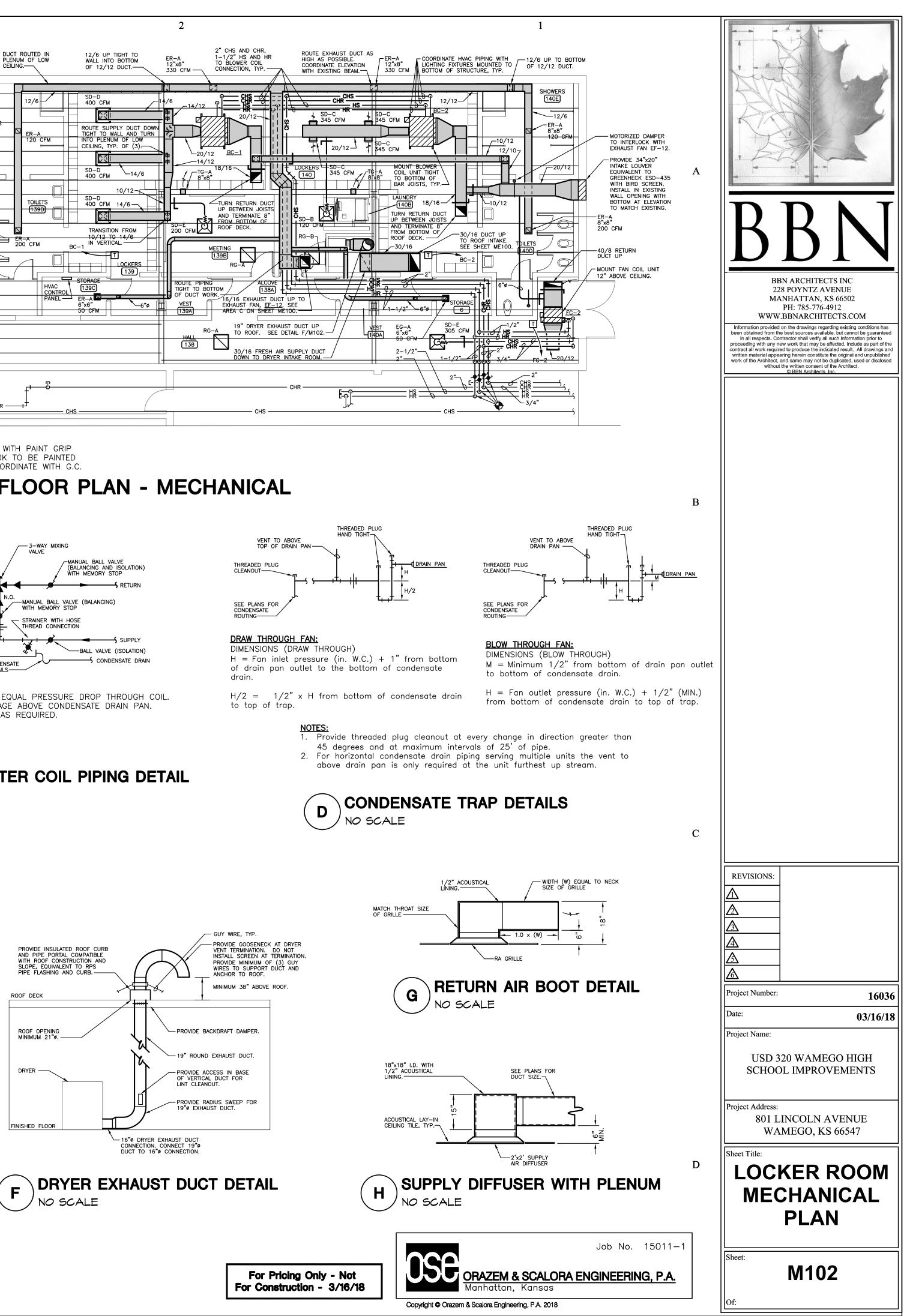
CO2	Carbon dioxide Sensor
F	Flow meter
T	Room temperature sensor
Ē	Relay
0	Current switch
Ŕ	3-way valve
*	Control valve
•	Connect to existing
H	Space humidity sensor
Θ	Duct humidity sensor
	Duct temperature sensor
л П	Pipe temperature sensor
	Thermometer
	Abbreviations
SA	Supply air
RA	Return air
OA	Outside air
SAT	Supply air temperature
RAT	Return air temperature
OAT	Outside air temperature
MAT	Mixed air temperature

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### FAN COIL UNIT CONTROL DIAGRAM Ε NO SCALE

a. FCU-1: During unoccupied operation the unit shall change to occupied operation for a duration of 1-hour (adj.) upon activation of the room temperature sensor over-ride button. Over-ride shall also put Locker Room Exhaust Fan EF-1 into occupied operation.

damper position shall be indexed to provide the scheduled value at each fan speed.

a. FCU-1 shall be based on the schedule of Locker Room Exhaust Fan EF-1.

d. Cycle fan during unoccupied periods to maintain setback temperature setpoint.

- b. FCU-2: During unoccupied operation the unit shall change to occupied operation for a duration of 1-hour (adi.) upon activation of the room temperature sensor over-ride button.

Heating: Modulate the heating water value and sequence the fan to maintain the space temperature setpoint.
 Cooling: Modulate the chilled water value and sequence the fan to maintain the space temperature setpoint.

b. FCU-2: During occupied operation open outside air damper to provide scheduled outside air volumes.

The maximum ventilation rate shall be set in conjunction with the test and balance contractor and

- 6. Alarms: All room temperature outside of user defined limits, fan failure, freeze-stat, deviation of any temperature from setpoint for an adjustable time span.

. . . TO OTHER CONTROLLERS ·

24V TRANSFORMER

. Unit shall cycle from occupied to unoccupied operation.

b. FCU-2 shall be based on an individual time schedule.

FUSE

c. Run fan during occupied periods.

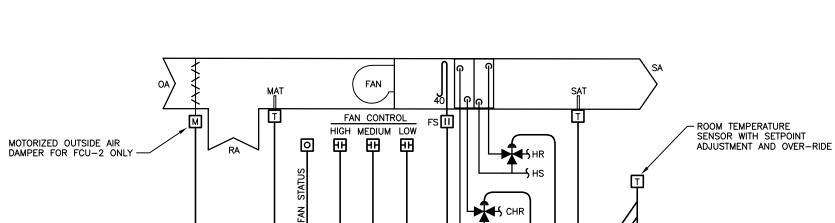
a. FCU-1: No outside air provisions.

120 VAC

SEQUENCE OF OPERATION:

4. Ventilation:

5. Over-ride:

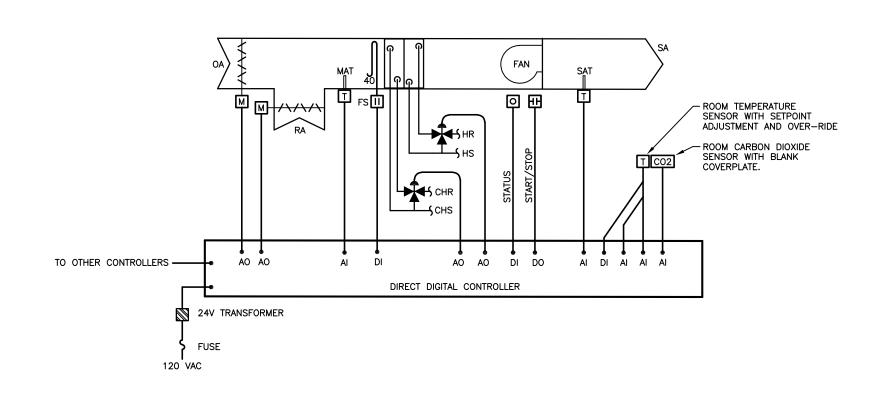


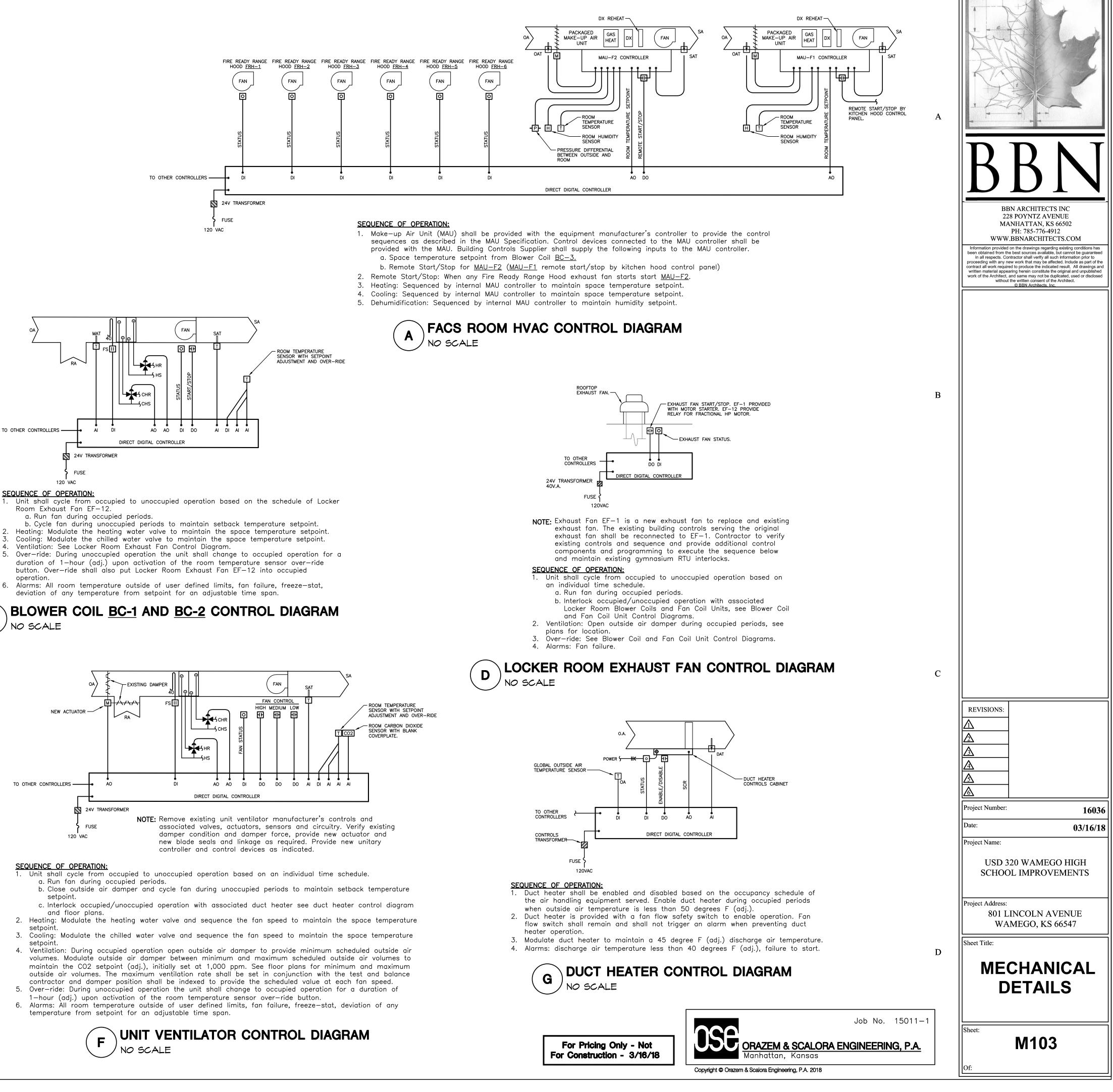
DIRECT DIGITAL CONTROLLER

DO DO AI DI AI

### BLOWER COIL BC-3 CONTROL DIAGRAM Β NO SCALE

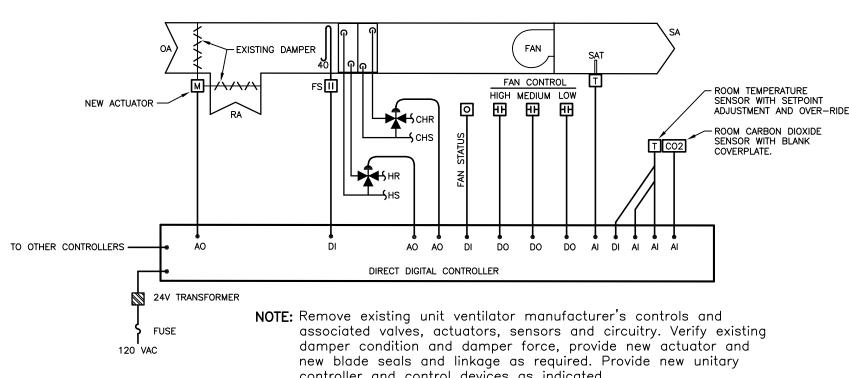
- 1-hour (adj.) upon activation of the room temperature sensor over-ride button. 6. Alarms: All room temperature outside of user defined limits, fan failure, freeze-stat, deviation of any temperature from setpoint for an adjustable time span.
- volumes to maintain the CO2 setpoint (adj.), initially set at 1,000 ppm. See equipment schedules for minimum and maximum outside air volumes. 5. Over-ride: During unoccupied operation the unit shall change to occupied operation for a duration of
- Cooling: Modulate the chilled water valve to maintain the space temperature setpoint. 4. Ventilation: During occupied operation open outside air damper to provide minimum scheduled outside air volumes. Modulate outside air damper between minimum and maximum scheduled outside air
- diagram and floor plans. Heating: Modulate the heating water value to maintain the space temperature setpoint.
- temperature setpoint c. Interlock occupied/unoccupied operation with associated duct heater see duct heater control
- a. Run fan during occupied periods. b. Close outside air damper and cycle fan during unoccupied periods to maintain setback
- **SEQUENCE OF OPERATION:** Unit shall cycle from occupied to unoccupied operation based on an individual time schedule.





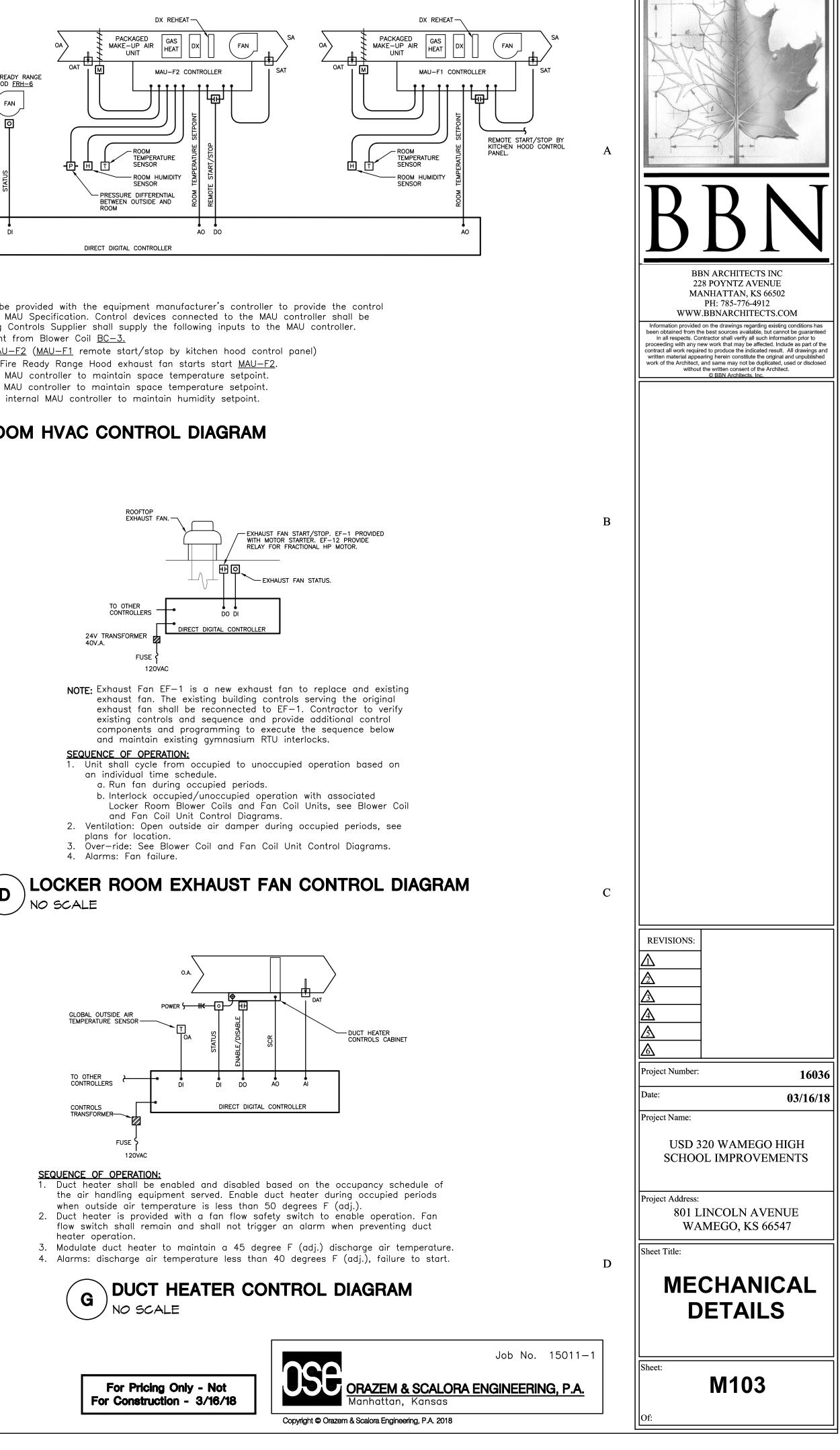
5. Over-ride: During unoccupied operation the unit shall change to occupied operation for a duration of 1-hour (adj.) upon activation of the room temperature sensor over-ride button. Over-ride shall also put Locker Room Exhaust Fan EF-12 into occupied operation.

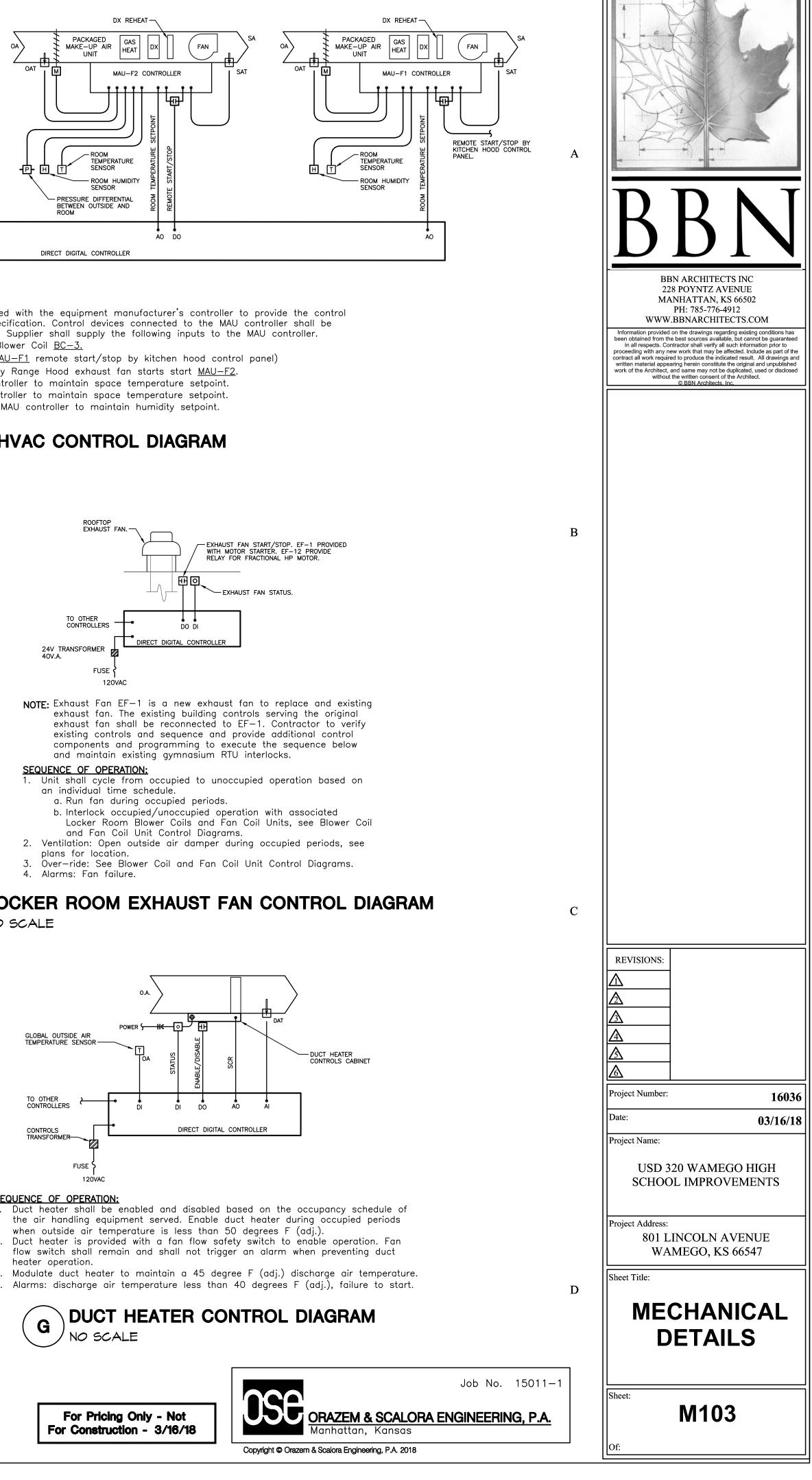
### BLOWER COIL BC-1 AND BC-2 CONTROL DIAGRAM NO SCALE

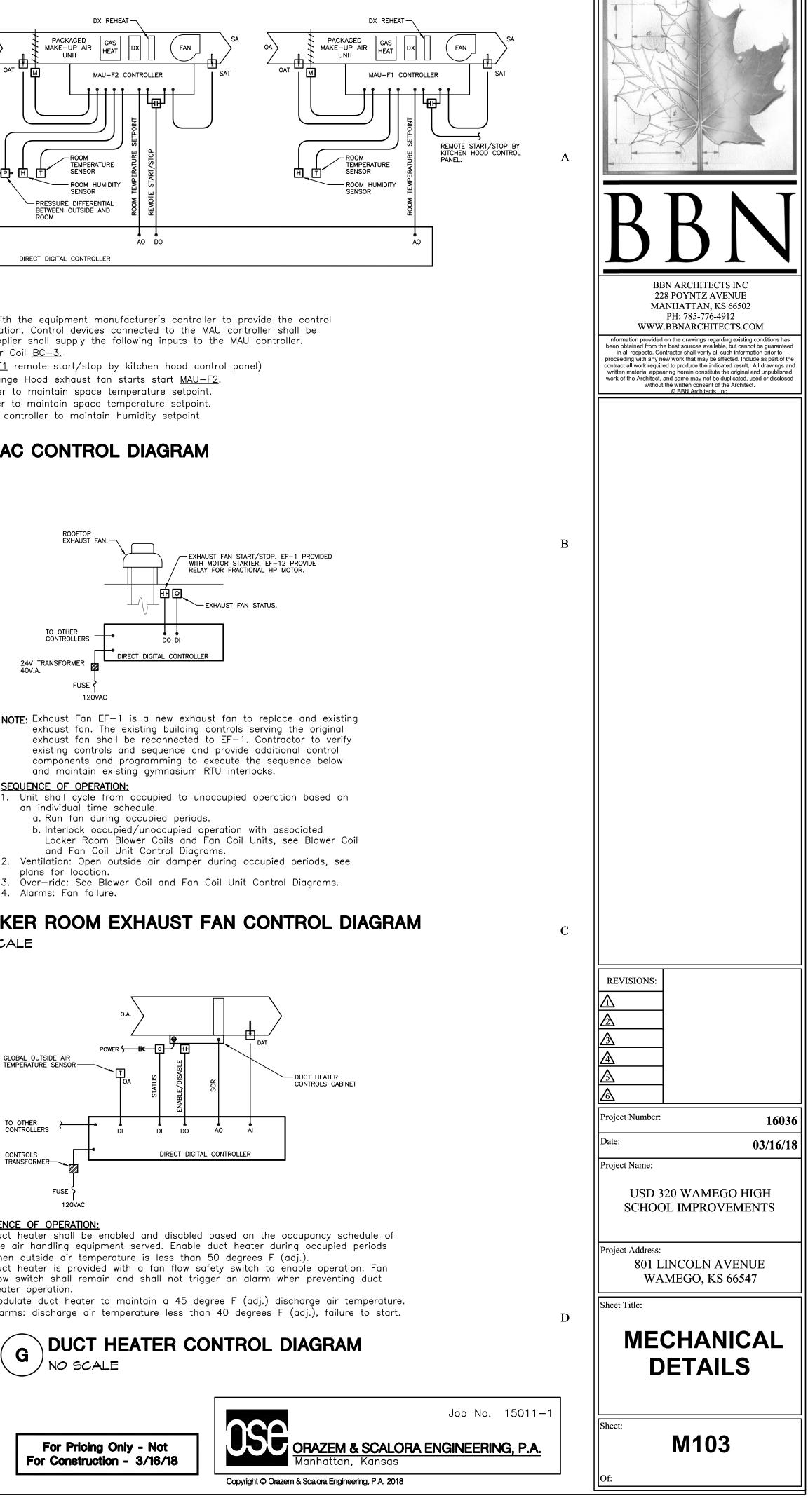


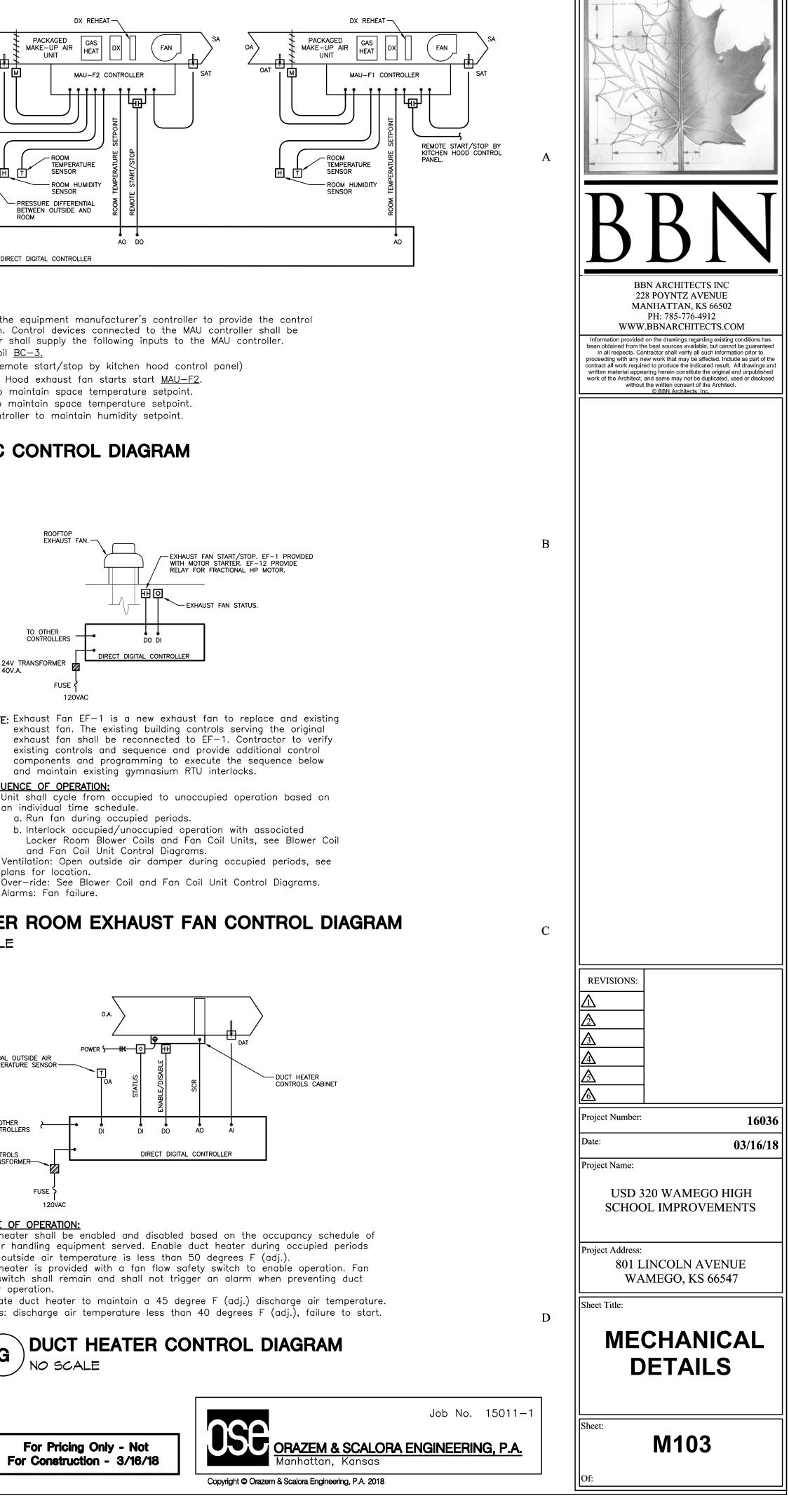
### SEQUENCE OF OPERATION:











RELOCATED UNIT VENTILATOR SCHEDULE				
DESIGNATION	<u>UV-1</u>	<u>UV-2</u>		
SERVES	Classroom 112	Preschool 115		
ARRANGEMENT	Ceiling Mounted	Ceiling Mounted		
	Bottom Supply, Rear Return	Bottom Supply, Rear Returr		
FAN SPEED	High	High		
DRIVE	Direct	Direct		
TOTAL CFM	1,500	1,500		
OUTSIDE AIR CFM	400	400		
MOTOR HP	1/3	1/3		
HEATING PERFORMANCE:				
HEATING COIL	Hot Water	Hot Water		
E.A.T. DB (F)	63.0	63.0		
HW GPM	3.0	3.5		
E.W.T. (F)	120	120		
WATER P.D. (ft wg)	1.59	2.00		
HEATING CAPACITY (MBH)	29.4	44.3		
COOLING PERFORMANCE:				
TYPE	Chilled Water	Chilled Water		
EAT DB/WB (F)	80/67	80/67		
CHW GPM	9.4	10.5		
E.W.T. (F)	45	45		
WATER P.D. (ft wg)	5.79	7.23		
SENS. CAP. (MBH)	35.6	36.5		
TOT. CAP. (MBH)	53.0	55.0		
VOLT/PHASE	120/1	120/1		
MAX. HACR CKT. BRKR. SIZE	15	15		
MIN. CKT. AMPS	6.3	6.3		
BASED ON (DAIKIN)	UAHV6H15	UAHV6H15		
NOTES: 1. Schedule provided for balancing and controls infor	mation.			

4

DESIGNATION DUTY

TYPE

CFM

AREA SERVED

EXT. S.P.("WG)

DESIGN HP OR (WATTS)

TYPE DRIVE

MOTOR RPM

MAX. SONES

ACCESSORIES

edule	provided	for	balancing	and	controls	information.	

5

AIR DEVICE SCHEDULE				
	All devices shall be supplied in white finish suitable for field painting.			
<u>SD-A</u>	EH Price SMD/3P/4A steel louvered flush face diffuser, 24" square face, square			
	neck, to lay into T-bar ceiling. Blow pattern is 4-way unless indicated			
	otherwise.			
	CFM Range Max. APD Max. NC Neck Dia.			
	0-125 0.10 30 6"x6"			
	126–280 0.10 30 9"x9"			
	281–500 0.10 30 12"x12"			
	501–780 0.10 30 15"x15"			
	Unless noted otherwise, runouts to diffusers shall be same size as neck.			
<u>SD-B</u>	EH Price SMD/6/4A steel louvered flush face diffuser, 24" square face, round			
<u> 30 0</u>	neck, gasketed beveled frame. Blow pattern is 4-way unless indicated			
	otherwise.			
	CFM Range Max. APD Max. NC Neck Dia.			
	0-110 0.10 30 6"			
	111-200 0.10 30 8"			
	201-300 0.10 30 10"			
	301-400 0.10 30 12"			
	401–535 0.10 30 14"			
50 0	Unless noted otherwise, runouts to diffusers shall be same size as neck.			
<u>SD-C</u>	EH Price 620DAL aluminum double deflection sidewall register with 0 degree horizontal front blades, $1-1/4$ " screwed flanged frame, gasketed border,			
<u>SD-D</u>	aluminum opposed blade damper. Size as indicated on drawings. EH Price AMD/1/4A extruded aluminum louvered flush face diffuser, 24" square			
<u>-30-0</u>				
<u>SD-E</u>	face, 12" square neck, 4-way blow pattern, for installation in hard ceiling. EH Price SMD/3P/4A steel louvered flush face diffuser, 24" square face, round			
	neck, to lay into T-bar ceiling. Blow pattern is 4-way unless indicated			
	otherwise.			
	CFM Range Max. APD Max. NC Neck Dia.			
	0-110 0.10 30 6"			
	111–200 0.10 30 8"			
	201-300 0.10 30 10"			
	301-400 0.10 30 12"			
	401-535 0.10 30 14"			
	Unless noted otherwise, runouts to diffusers shall be same size as neck.			
<u>RG–A</u>	EH Price SMD/3P steel louvered flush face return grille with 22" square			
<u> 110-A</u>	neck, 24" square face, to lay into T-bar ceiling.			
<u>RG-B</u>	EH Price SMD/6 steel louvered flush face return grille with 22" square			
<u>1(0-D</u>	neck, 24" square face, gasketed frame, to install in hard ceiling.			
<u>ER–A</u>	EH Price 630DAL/L extruded aluminum louvered exhaust air register with $1-1/4$ "			
	screwed and gasketed border, fixed horizontal blades, and opposed blade			
	damper. Size as indicated on drawings.			
<u>EG–A</u>	EH Price $630/L$ extruded aluminum louvered exhaust air grille with $1-1/4$ "			
	screwed border and aasketed frame. Size as indicated on drawings			
FC-R	screwed border and gasketed frame. Size as indicated on drawings. EH Price SMD/3P steel louvered flush face exhaust grille with 8" round			
<u>EG-B</u>				
TC-4	neck, 24" square face, to lay into T-bar ceiling. EH Price 630/L extruded aluminum louvered transfer air grille with 1-1/4"			
<u>TG–A</u>	screwed border and gasketed frame. Size as indicated on drawings.			
	r screwed border and gasketed frame. Size as indicated on ardwings.			

ELECTRIC DUCT HEATER SCHEDULE					
MARK	<u>DH-1</u>	<u>DH-2</u>	<u>DH-3</u>		
TYPE	Flanged	Flanged	Flanged		
	Open Coil	Open Coil	Open Coil		
SERVES	UV—1	UV-2	BC-3		
DUCT DIMENSIONS (DIA. IN INCHES)	10	10	10		
CFM	400	400	380		
KW	5.0	5.0	5.0		
VOLTAGE	277	277	277		
PHASE	1	1	1		
FULL LOAD AMPS	18.0	18.0	18.0		
MIN. OVERCURRENT PROTECTION AMPACITY	20	20	20		
CONTROL	Discharge Air	Discharge Air	Discharge Air		
BASED ON: (Thermolec)	FC	FC	FC		
<ul> <li>NOTES:</li> <li>1. Provide units with integral electrical disc</li> <li>2. Provide units with automatic reset therm manual reset thermal cutout, and pilot</li> <li>3. Provide units with magnetic contactor.</li> <li>4. Provide units with control transformer, or</li> <li>5. Provide units with silicon controlled rect building control system contractor.</li> </ul>	nal cutout, proof of light. coordinate requireme	ents with building co	ntrols contractor.		

$\mathbf{a}$
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	E	BLOWER COIL UNI	T SCHEDULE		A	+
ESIGNATION SERVES		BC-1 South Locker 139	<u>BC-2</u> North Locker 140	<u>BC–3</u> FACS Room	a a a	
ARRANGEMENT		Horizontal	Horizontal Front Supply, Plenum Return	Horizontal	AV	Mar of C
JNIT SIZE FAN SPEED		20 1,049	20 1,054	16 1,109		HE LE
DRIVE TOTAL CFM		Belt 1,700	Belt 1,700	Belt 1,500		t
OUTSIDE AIR CF OUTSIDE AIR CF		620 620	620 620	190 380		7
EXTERNAL S.P. FILTER TYPE		0.5 2" Disposable	0.5 2" Disposable	0.5 2" Disposable	A	
VOTOR FLA	-	5.7 230/1	5.7 230/1	5.4 208/1		and a second second
NUMBER OF CO	DILS	2	2	2		
NUMBER OF RC		6 14.50	6 14.50	6 12.10		KN
E.W.T. (F) WATER P.D. (F	FT WG)	45.0 3.78	45.0 3.78	45.0 2.97		
E.A.T. DB/WB L.A.T. DB/WB	(F) (F)	85/67 53/52.1	85/67 53/52.1	82/66 53.1/52.4		
SENSIBLE CAPA	CITY (MBH)	55.9 72.6	55.9 72.6	47.9 61.0	228	N ARCHITECTS INC 3 POYNTZ AVENUE
EATING PERFOR NUMBER OF RC		2	2	2		NHATTAN, KS 66502 PH: 785-776-4912
HW GPM E.W.T. (F)		7.90 160.0	9.20 160.0	5.70 160.0	Information provided o	BBNARCHITECTS.COM n the drawings regarding existing condition best sources available, but cannot be guar
NATER P.D. (ft E.A.T. DB (F)	wg)	0.98 55.0	1.29 55.0	0.32 63.0	in all respects. Cont proceeding with any new contract all work required	ractor shall verify all such information prior v work that may be affected. Include as par t to produce the indicated result. All drawir
A.T. DB (F) HEATING CAPAC	CITY (MBH)	97.7 77.7	104.6 90.2	97.5 56.3	work of the Architect, an	ing herein constitute the original and unput d same may not be duplicated, used or dis ne written consent of the Architect. © BBN Architects. Inc.
<b>2.</b> Maintain all N	equired transitions and Manufacturer's recomm ple connections at sup	l adapters nended clearances. ply and return duct connections				
5.Provide with 5.See coil pipir 7.For BC-1 ar	integral disconnect sw ng details.	stractor to field paint units, coo	rdinate with Architect.			
	[		INIT SCHEDULE			
	DESIGNATION		<u>FC-1</u>	<u>FC-2</u>	B	
) pods	SERVES ARRANGEMENT		Training 143, Storage 142 Horizontal Cabinet with	Hallway 138 Horizontal Cabinet with		
je	UNIT SIZE		Front Supply, Plenum Return 40	30		
	FAN SPEED DRIVE		Medium Direct	Medium Direct		
	TOTAL CFM OUTSIDE AIR CFM	\`	380.0 0	305.0 40		
	EXTERNAL S.P. ("w FILTER TYPE	g)	0.3 1" Pleated MERV 7	0.3 1" Pleated MERV 7		
	MOTOR FLA VOLTAGE/PHASE		0.9 230/1	0.7 230/1		
	NUMBER OF COILS COOLING PERFORMAN NUMBER OF ROWS	CE:	2	2		
	CHW GPM E.W.T. (F)		2.40 45.0	2.20 45.0		
	WATER P.D. (FT WO E.A.T. DB/WB (F)	3)	2.00 76/63	2.61 79/65		
	L.A.T. DB/WB (F) SENSIBLE CAPACITY	(MBH)	52.8/52.0 9.0	54/52.9 7.8		
	TOTAL CAPACITY (ME HEATING PERFORMANC	iĤ)	11.1	10.4		
	NUMBER OF ROWS	۶ <u>ـ</u> .	1 1.70	1 1.10		
	E.W.T. (F) WATER P.D. (ft wg)		160.0 1.55	160.0 0.91		
	E.A.T. DB (F) L.A.T. DB (F)		69.0 110.30	68.0 101.9		
-3GB	HEATING CAPACITY ( BASED ON: (JCI)	MBH)	17.2 FHP-40	11.3 FHP–30		
	EQUIPMENT NOTES: 1. Provide all require	ed transitions and adapters.			с	
	2. Maintain all Manu 3. Provide flexible co	facturer's recommended clearan onnections at supply and return	duct connections.			
	<b>5.</b> Provide three-spe			or.		
vent.	<b>7.</b> Provide stainless	stalled and tested piping packa steel drain pans. insulated drain pan below valve			REVISIONS:	
	9. Provide with facto	ory installed disconnect switch. and detail for additional install				
			i			
	<b>KITCHE</b> DESIGNATION	N HOOD SCHEDU	<b>_E</b>			
Ready,	TYPE SIZE	Wall Mou	<u>n - 1</u> Int Canopy 14"Wx24"H			
System	EXHAUST CFM EXHAUST CONNECTIO	2,	400 'x23"		Project Number:	
cted	FILTER TYPE	Be	affle uss Steel			1
	FILTER SIZE NUMBER OF FILTERS	16"×20"	, 20"x20" 1,4		Date:	03/1
	BASED ON: (Accure <u>NOTES:</u>	ex) XXEW	<u>-144-S</u>		Project Name:	
——	<b>1.</b> Provide with four <b>2.</b> Provide hood with	interior incandescent light fixtur	rdance with			20 WAMEGO HIGH L IMPROVEMENTS
	(2) sets of conta	6. Fire protection system shall octs to signal fire alarm system o circuit upon fire protection ac	and			
acle.	3. Provide with remo	o circuit upon fire protection ac ote mounted hood control panel XFCC. Control panel shall sta	equivalent		Project Address:	
acle.	associated exhaus	st fan and make—up air unit. for additional requirements.			801 LI	NCOLN AVENUE
acle.						MEGO, KS 66547
acle.					D Sheet Title:	
acle.					∥ MEC	HANICAL
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acle.				Job No. 1501 <b>ALORA ENGINEERING, P./</b> Isas	SCH	

8. Provide hinged base, curb seal, grease trap, and heat baffle.
9. Provide step-down transformer to convert from 277V to 120V.

 ACCESSORIES
 1,2,4

 VOLTAGE/PHASE
 480/3

 BASED ON: (Greenheck)
 GB-220-20

 APPROX. WEIGHT INCLUDING CURB
 180

 ACCESSORY KEY:
 1. Provide with backdraft damper.

 2. Provide with factory mounted and wired disconnect.
 3. Provide with unit-mounted solid state speed control.

 4. Browide roof ourb compatible with roof type and plane

**7.** Exhaust fan shall be U.L. 762 listed.

MAKE-UP AIR UNIT SCHEDULE				
MAKE-UP AIR UNIT	MAU-F1	MAU-F2		
TYPE	Heating/Cooling	Heating/Cooling		
SERVES	FACs Competition Hood	FACs Classroom Hoods		
CONFIGURATION	Vertical Discharge	Vertical Discharge		
CFM	1540	2550		
EXT. S.P.("WG)	1	1		
HEATING FUEL	Natural Gas	Natural Gas		
MAXIMUM HEATING INPUT (MBH)	195.0	292.5		
HEATING CAPACITY (MBH)	156.0	234.0		
TURNDOWN RATIO	10:1	10:1		
REFRIGERANT	R-410A	R-410A		
EVAP. E.A.T. DB/WB (F)	105/75	105/75		
CONDENSER E.A.T. DB(F)	105	105		
NET SENSIBLE COOLING CAPACITY (MBH)	76.2	130.3		
NET TOTAL COOLING CAPACITY (MBH)	100.4	167.9		
SUPPLY AIR FAN RPM (or speed)	1535	1098		
SUPPLY FAN HP	1	2		
SUPPLY FAN DRIVE TYPE	Direct	Direct		
CONDENSER FAN HP	1/3	3/4		
NO. COMPRESSORS	2	2		
COMPRESSOR FLA (EACH)	8.1	12.6		
TOTAL COOLING F.L.A.	24	32		
MINIMUM CIRCUIT AMPS	26	35		
MAXIMUM HACR CIRCUIT BRKR. AMPS	30	45		
FILTERS	2"Disposable	2"Disposable		
VOLTAGE/PHASE	480/3	480/3		
MINIMUM EER (SEER)	11.2	10.9		
APPROXIMATE WEIGHT INCLUDING CURB, & ACCESSORIES (LBS)	1,775	2,100		
BASED ON: (AAON)	RN-011-3-0-FA0A-3FB	RN-015-3-0-FA0A-3GB		

1. Provide each MAU with a flexible connection at supply duct connection and transition as required to duct size. Provide each MAU with a flocible connection at cappy find connect switch.
 Provide each MAU with factory installed and field wired weatherproof GFI NEMA 5-15 receptacle.
 Equip unit with complete integral control system for interface with building automation system or kitchen hood exhaust control

3

EXHAUST FAN SCHEDULE

Existing Locker Rooms New Locker Rooms

Centrifugal Downblast 5,000 Centrifugal Downblast 1,400

<u>EF-1</u> Exhaust

See Plans

1.0

Belt

2

1,725 17.3

1,2,4

4. Provide roof curb compatible with roof type and slope.
5. Provide vented roof curb to provide minimum 40" fan discharge height above roof per NFPA 96.
6. Provide NEMA 3R disconnect.

<u>EF-12</u> Exhaust

See Plans

0.5

Direct

1/2

1,055

8.2

1,2,3,4

120/1

100

G-143-VG

<u>EF-P1</u>

Exhaust

Preschool Bathroom

See Plans

Ceiling Cabinet

70

.25

Direct (15) 900

0.5

1,2,3,9

120/1

SP-A90

—

<u>EF-F1</u>

Exhaust

FACs <u>KH-1</u>

See Plans

Centrifugal Upblast

2,400

1.5

Belt

1-1/2

1,353 16.5

2,4,5,6,7,8

480/3

CUBE-180HP

150

see control diagrams.

5. Provide each MAU with 14" high insulated roof curb compatible with roof slope and construction.
6. Provide each MAU with factory provided and field installed hail guards.
7. Coordinate installation of unit so that the outside air intake is a minimum 10'-0" from any building exhaust fan, flue, or plun

FIRE READY HOOD SCHEDULE							
DESIGNATION	<u>FRH-1, FRH-2, FRH-3</u>	<u>FRH-4, FRH-5</u>	<u>FRH-6</u>				
DUTY	Range Exhaust	Range Exhaust	Range Exhaust				
LOCATION	FACs 118	FACs 118	Preschool 115				
TYPE	NFPA 101 Compliant, Fire Ready,	NFPA 101 Compliant, Fire Ready,	NFPA 101 Compliant, Fire Ready,				
	Wet Chemical Suppression System	Wet Chemical Suppression System	Wet Chemical Suppression System				
EXHAUST CFM	510	510	510				
NOMINAL WIDTH (INCHES)	30	30	30				
FAN TYPE	ECM, External, Inline, Ducted	ECM, External, Inline, Ducted	ECM, External, Inline, Ducted				
RANGE TYPE	Electric	Gas	Electric				
VOLTAGE/PHASE	120/1	120/1	120/1				
WATTS	540	540	540				
PHYSICAL DIMENSIONS (LxWxH)	35.8"x19.3"x10.5"	35.8"x19.3"x10.5"	35.8"x19.3"x10.5"				
BASED ON: (Greenheck)	GRRS-30-T-E-D-N	GRRS-30-T-G-D-N	GRRS-30-T-E-D-N				
ACCESSORY KEY:	mmondations and requirements						

1. Install per manufacturer's recommendations and requirements. 2. Provide all necessary mounting hardware.

3. For hoods serving electric range, provide with electric range utility appliance power disconnect with 50A/250V/NEMA 14-50 Coordinate with electrical contractor.

4. For hoods serving gas range, provide with gas disconnect solenoid valve. Coordinate with plumbing contractor. 5. Provide with manual pull station kit.

6. Provide with auxiliary contacts for connection to building fire alarm system.

2 B	LOWER COIL UNI	T SCHEDULE	1	*	
M MINIMUM M MAXIMUM ("wg) MLS RMANCE: WS T WG) (F) (F) CITY (MBH) (MBH) MANCE: WS	<u>BC-1</u> South Locker 139 Horizontal	BC-2           North Locker 140           Horizontal           Front Supply, Plenum Return           20           1,054           Belt           1,700           620           0.5           2" Disposable           5.7           230/1           2           6           14.50           45.0           3.78           85/67           53/52.1           55.9           72.6	$\begin{array}{r} \underline{BC-3} \\ FACS \ Room \\ Horizontal \\ Front \ Supply, \ Ducted \ Return \\ 16 \\ 1,109 \\ Belt \\ 1,500 \\ 190 \\ 380 \\ 0.5 \\ 2" \ Disposable \\ 5.4 \\ 208/1 \\ 2 \\ \hline \\ 6 \\ 12.10 \\ 45.0 \\ 2.97 \\ 82/66 \\ 53.1/52.4 \\ 47.9 \\ 61.0 \\ \hline \\ \end{array}$	A	BBN ARCHITECTS INC 28 POYNTZ AVENUE MANHATTAN, KS 66502 PH: 785-776-4912
wg) TY (MBH) I) S:	7.90 160.0 0.98 55.0 97.7 77.7 <b>AHI–20</b>	9.20 160.0 1.29 55.0 104.6 90.2 AHI-20	5.70 160.0 0.32 63.0 97.5 56.3 AHI-16	Information pr been obtained in all respec proceeding with contract all work written materia work of the Arci	WW.BBNARCHITECTS.COM ovided on the drawings regarding existing conditions has from the best sources available, but cannot be guaranteed cts. Contractor shall verify all such information prior to any new work that may be affected. Include as part of the required to produce the indicated result. All drawings and 1 appearing herein constitute the original and unpublished hitect, and same may not be duplicated, used or disclosed without the written consent of the Architect. © BBN Architects. Inc.
DESIGNATION SERVES ARRANGEMENT UNIT SIZE FAN SPEED DRIVE TOTAL CFM OUTSIDE AIR CFM EXTERNAL S.P. ("wg FILTER TYPE MOTOR FLA VOLTAGE/PHASE NUMBER OF COILS COOLING PERFORMANCE NUMBER OF ROWS CHW GPM E.W.T. (F) WATER P.D. (FT WG) E.A.T. DB/WB (F) L.A.T. DB/WB (F) SENSIBLE CAPACITY (MBH HEATING PERFORMANCE NUMBER OF ROWS HW GPM E.W.T. (F) WATER P.D. (ft wg) E.A.T. DB (F) L.A.T. DB (F) L.A.T. DB (F) L.A.T. DB (F) HEATING CAPACITY (MBH HEATING CAPACITY (MBH HEATING CAPACITY (MBH I.A.T. DB (F) L.A.T. DB (F) L.A.T. DB (F) L.A.T. DB (F) HEATING CAPACITY (MBH FOR CAPACITY (MBH E.W.T. (F) WATER P.D. (ft wg) E.A.T. DB (F) L.A.T. DB (F) HEATING CAPACITY (MBH HEATING CAPACITY (MBH FOR CAPACITY (MBH E.A.T. DB (F) L.A.T. DB (F) L.A.T. DB (F) HEATING CAPACITY (MBH BASED ON: (JCI) EQUIPMENT NOTES: 1. Provide all required 2. Maintain all Manufo 3. Provide flexible cor 4. Provide terminal st 5. Provide three—spee 6. Provide factory ins 7. Provide stainless s 8. Provide with factor 10. See specifications	ractor to field paint units, coouriements.         FAN COIL L         FAN COIL L         ()         E:         MBH)         )         :         BH)         :         BH         is transitions and adapters.         is transitions at supply and return rip for field wiring of controls d fans.         talled and tested piping package	INIT SCHEDULE         FC-1         Training 143, Storage 142         Horizontal Cabinet with         Front Supply, Plenum Return         40         Medium         Direct         380.0         0         0.3         1" Pleated MERV 7         0.9         230/1         2         4         2.40         45.0         2.00         76/63         52.8/52.0         9.0         11.1         1         1.70         160.0         1.55         69.0         110.30         17.2         FHP-40	FC-2         Hallway 138         Horizontal Cabinet with         Front Supply, Plenum Return         30         Medium         Direct         305.0         40         0.3         1" Pleated MERV 7         0.7         230/1         2         4         2.20         45.0         2.61         79/65         54/52.9         7.8         10.4         1         1.10         160.0         0.91         68.0         101.9         11.3         FHP-30	B C REVISION ▲ ▲ ▲	
<ol> <li>Provide hood with NFPA 17A and 96.</li> <li>(2) sets of contac operate shunt trip</li> </ol>	Wall Mou 144"Lx5 2, 10" Bo Stainle 16"x20" 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	rdance with include and tivation.			03/16/18
to Accurex model associated exhaust <b>4.</b> See Specifications <b>For P</b>	e mounted hood control panel XFCC. Control panel shall sta fan and make-up air unit. for additional requirements.	rt/stop	Job No. 15011 ALORA ENGINEERING, P.A	D Sheet Title: ME C S( S(	Tess: 1 LINCOLN AVENUE WAMEGO, KS 66547 ECHANICAL DETAILS & CHEDULES M104

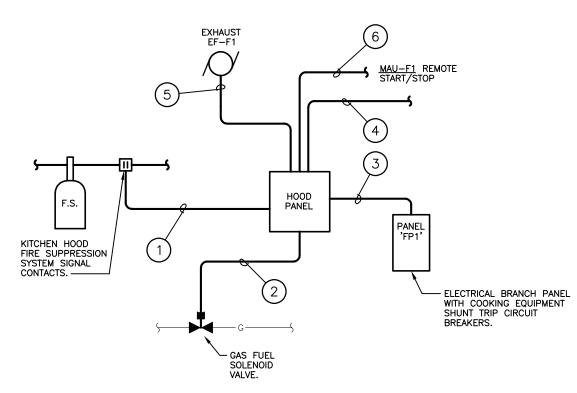
B	BLOWER COIL UNI	T SCHEDULE	1		
M MINIMUM M MAXIMUM ("wg) LS MANCE: WS T WG) (F) F) ITY (MBH) (MBH) MANCE:	<u>BC-1</u> South Locker 139 Horizontal	BC-2           North Locker 140           Horizontal           Front Supply, Plenum Return           20           1,054           Belt           1,700           620           0.5           2" Disposable           5.7           230/1           2           6           14.50           45.0           3.78           85/67           53/52.1           55.9           72.6	$\begin{array}{c} \underline{BC-3} \\ FACS \ Room \\ Horizontal \\ Front \ Supply, \ Ducted \ Return \\ 16 \\ 1,109 \\ Belt \\ 1,500 \\ 190 \\ 380 \\ 0.5 \\ 2" \ Disposable \\ 5.4 \\ 208/1 \\ 2 \\ \hline \end{array} \\ \begin{array}{c} 6 \\ 12.10 \\ 45.0 \\ 2.97 \\ 82/66 \\ 53.1/52.4 \\ 47.9 \\ 61.0 \\ \end{array}$	A	BIN ARCHITECTS INC         28 POYNTZ AVENUE         MANHATTAN, KS 66502
Vg) Y (MBH)	2 7.90 160.0 0.98 55.0 97.7 77.7 <b>AHI–20</b>	2 9.20 160.0 1.29 55.0 104.6 90.2 <b>AHI-20</b>	2 5.70 160.0 0.32 63.0 97.5 56.3 <b>AHI-16</b>	been obtair in all re proceeding contract all v written ma	PH: 785-776-4912 WWW.BBNARCHITECTS.COM In provided on the drawings regarding existing conditions has hed from the best sources available, but cannot be guaranteed spects. Contractor shall verify all such information prior to with any new work that may be affected. Include as part of the work required to produce the indicated result. All drawings and terial appearing herein constitute the original and unpublished Architect, and same may not be duplicated, used or disclosed without the written consent of the Architect. © BBN Architects. Inc.
DESIGNATION SERVES ARRANGEMENT UNIT SIZE FAN SPEED DRIVE TOTAL CFM OUTSIDE AIR CFM EXTERNAL S.P. ("wg FILTER TYPE MOTOR FLA VOLTAGE/PHASE NUMBER OF COILS COOLING PERFORMANC NUMBER OF ROWS CHW GPM E.W.T. (F) WATER P.D. (FT WG E.A.T. DB/WB (F) L.A.T. DB/WB (F) SENSIBLE CAPACITY (MB HEATING PERFORMANC NUMBER OF ROWS HW GPM E.W.T. (F) WATER P.D. (ft wg) E.A.T. DB (F) HEATING CAPACITY (MB HEATING CAPACITY (MB ASED ON: (JCI) QUIPMENT NOTES: 1. Provide all require 2. Maintain all Manuf 3. Provide three-spec 6. Provide stainless s 8. Provide stainless s 8. Provide with facto 10. See specifications	ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH) ABH)	Init Schedule         Fc-1         Training 143, Storage 142         Horizontal Cabinet with         Front Supply, Plenum Return         40         Medium         Direct         380.0         0         0.3         1" Pleated MERV 7         0.9         230/1         2         4         2.40         45.0         2.00         76/63         52.8/52.0         9.0         11.1         1         1.70         160.0         1.55         69.0         110.30         17.2         FHP-40	FC-2         Hallway 138         Horizontal Cabinet with         Front Supply, Plenum Return         30         Medium         Direct         305.0         40         0.3         1" Pleated MERV 7         0.7         230/1         2         4         2.20         45.0         2.61         79/65         54/52.9         7.8         10.4         1         1.10         160.0         0.91         68.0         101.9         11.3         FHP-30	B R R R R R R R R R R R R R	
<ol> <li>Provide hood with NFPA 17A and 96 (2) sets of contac operate shunt trip</li> <li>Provide with remo to Accurex model associated exhaus</li> </ol>	Stainle 16"x20"	rdance with include and tivation. equivalent		SC Project A	03/16/18 ame: JSD 320 WAMEGO HIGH CHOOL IMPROVEMENTS
		ORAZEM & SC Manhattan, Kan	Job No. 15011 <b>ALORA ENGINEERING, P.A</b> Isas	_1	ECHANICAL DETAILS & SCHEDULES M104

### ELECTRICAL NOTES BY SYMBOL:

- (1) ROUTE CIRCUITRY BELOW FLOOR AND PROVIDE CONDUIT RISER ATTACHED TO TABLE LEG WITH JUNCTION BOX AND RECEPTACLE INSTALLED BELOW TABLE TOP.
- 2 PROVIDE IN FLOOR JUNCTION BOX WITH (2) DUPLEX RECEPTACLE AND METAL IN-USE COVER EQUIVALENT TO WIREMOLD EVOLUTION SERIES.
- 3 PROVIDE RED, MAINTAINED PUSHBUTTON WITH 24 VAC LED ILLUMINATION AND NO/NC CONTACTS WITH STAINLESS STEEL COVER PLATE EQUIVALENT TO SQUARE D 9001KR9P1 FOR EMERGENCY NATURAL GAS SHUT-OFF. PROVIDE CIRCUITRY TO GAS FUEL SOLENOID VALVE, SEE PLUMBING PLAN FOR LOCATION AND COORDINATE WITH PLUMBING CONTRACTOR. PROVIDE PUSHBUTTON WITH ENGRAVED SIGN THAT READS "EMERGENCY GAS SHUT-OFF".



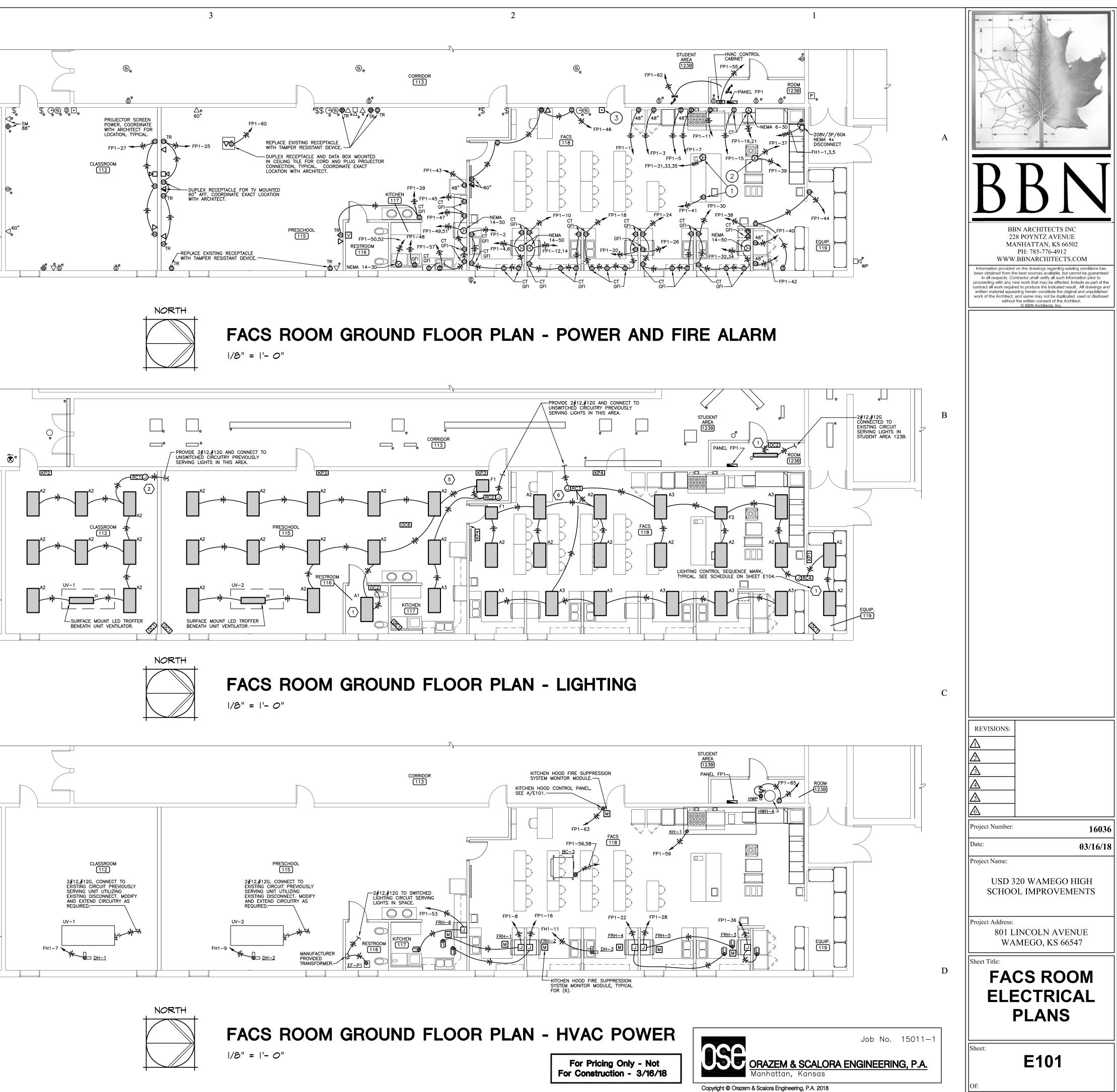
	FIRE ALARM SYSTEM NOTES
1.	The existing building is presently equipped with a Notifier NFS-640 fire alarm system. The fire alarm system shall be extended to accommodate the indicated new devices and appliances.
2.	Provide all equipment, circuitry, installation labor and programming for for a complete and fully functional system in accordance with the local building codes and the supplying manufacturer's recommendations.
3.	Equipment and accessories furnished for this system shall be the standard products of the supplying manufacturer, equivalent to the product of the Notifier Company, and shall be compatible with the existing fire alarm system. All new equipment shall be U.L. listed.
4.	Field verify all existing circuitry and verify new circuiting requirements with equipment manufacturer. New circuitry shall be in conduit where
5.	concealed. Circuitry above accessible ceilings may be plenum rated cable. At completion of system, test all new or relocated fire alarm devices. Testing shall be in accordance with NFPA 72, and shall be conducted in the presence of the Owner's representative, a representative of the local fire department, and a representative of the fire alarm equipment manufacturer.
6.	When required by the Kansas State Fire Marshal's Office provide documentation including fire alarm shop drawings sealed by a Kansas licensed engineer and submit to the Kansas State Fire Marshal's Office for approval in accordance with the Kansas Fire Prevention Code.

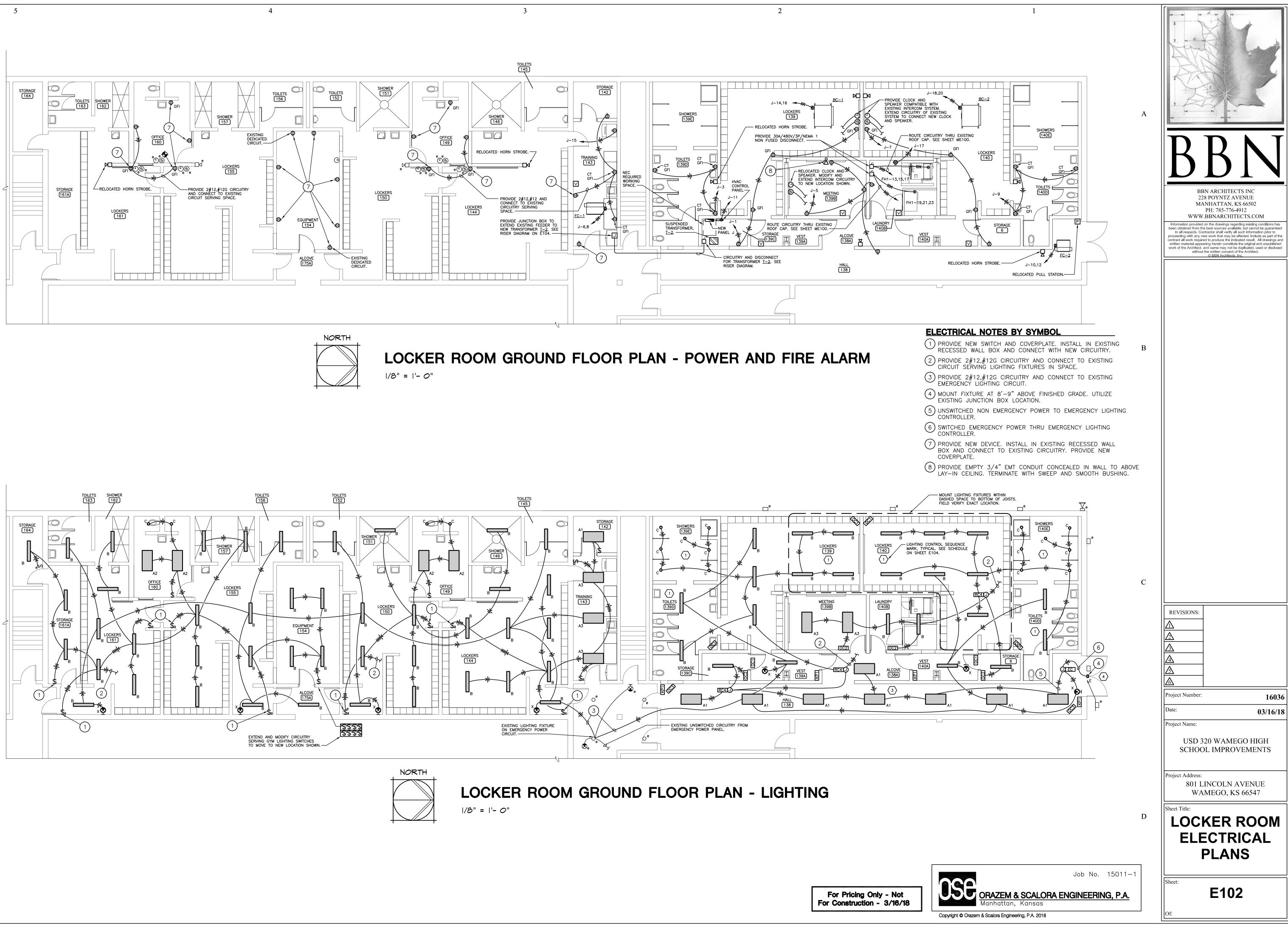


### **KITCHEN HOOD CONTROL NOTES**

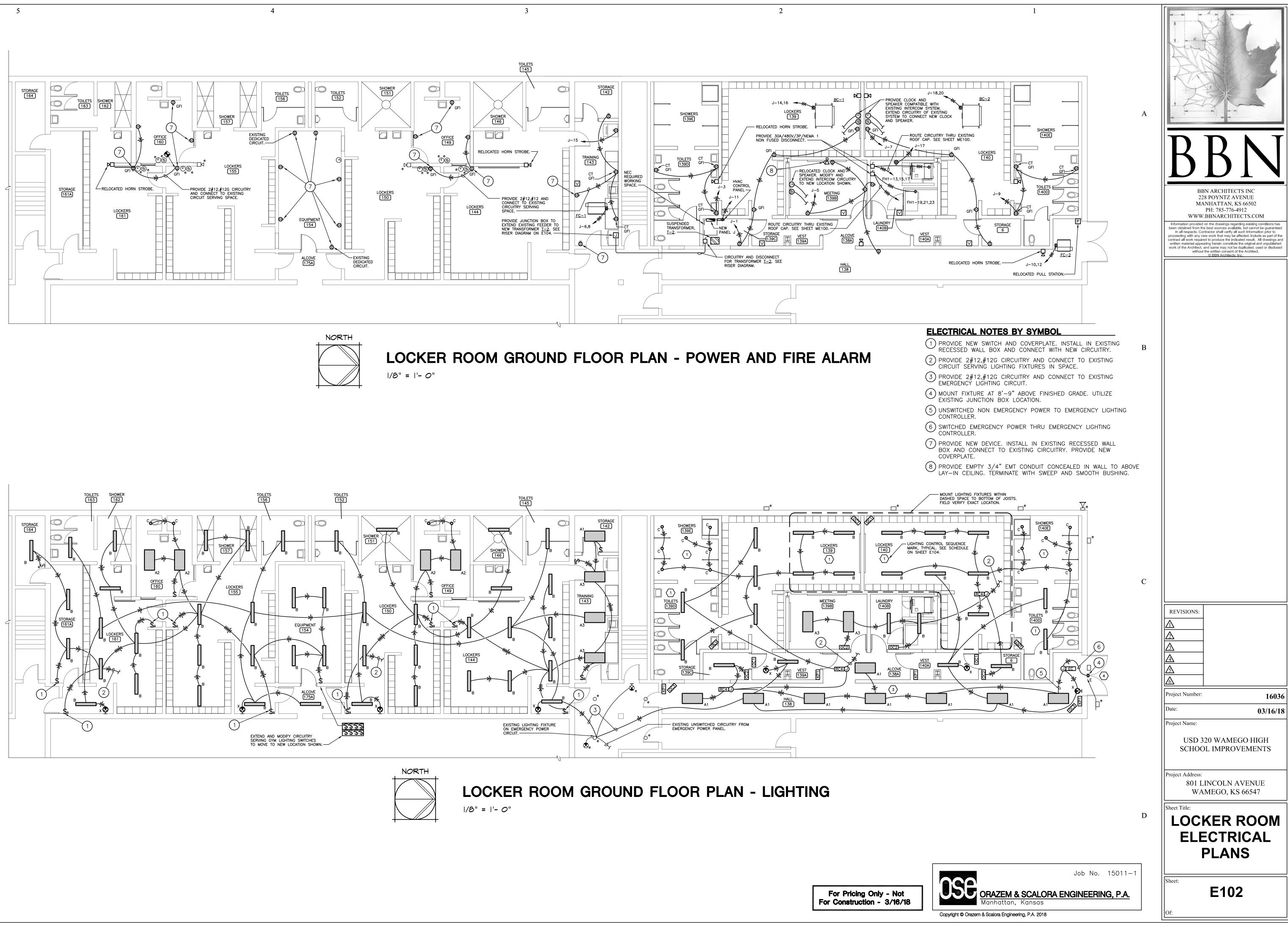
- 1. Provide signal circuitry from hood Fire Suppression system contacts to Hood Panel for signal to shut-down energization of associated components. Provide incidental control relays for contact configuration needed for multiple signals and voltages. Coordinate number of Fire Suppression signal contacts with system provider.
- 2. Provide control circuitry and interface with suppression system signal to shut fuel gas solenoid valve upon activation of Fire Suppression system. This circuitry is typically 120 VAC. Coordinate exact requirements with Plumbing
- Contractor. 3. Provide 120 VAC circuitry for control power and shunt trip from Hood Panel to Electrical Branch Panel. The shunt trip circuit breakers are to be operated
- upon activation of Fire Suppression system. 4. Provide additional circuitry and interface components for incidental equipment and systems associated with hood safety operation.
- 5. Provide wiring of Exhaust Fan and Make-up air unit components to hood control panel. Coordinate requirements with Mechanical Contractor.
- 6. Provide wiring of remote start/stop to <u>MAU-F1</u> controller. Provide wiring of MAU shut-down upon activation of the hood fire suppression system. Coordinate requirements with Mechanical Contractor.

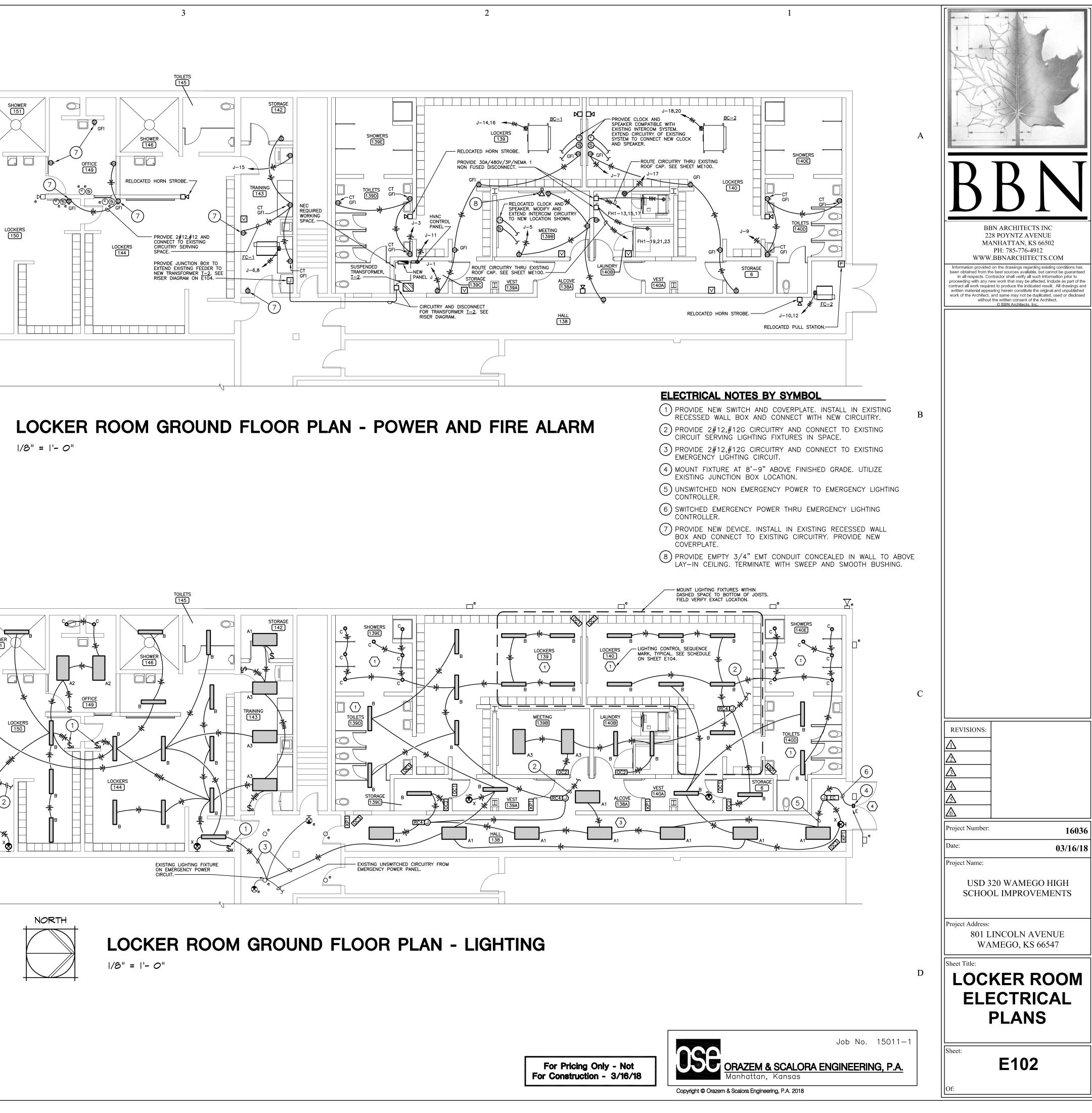


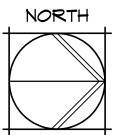


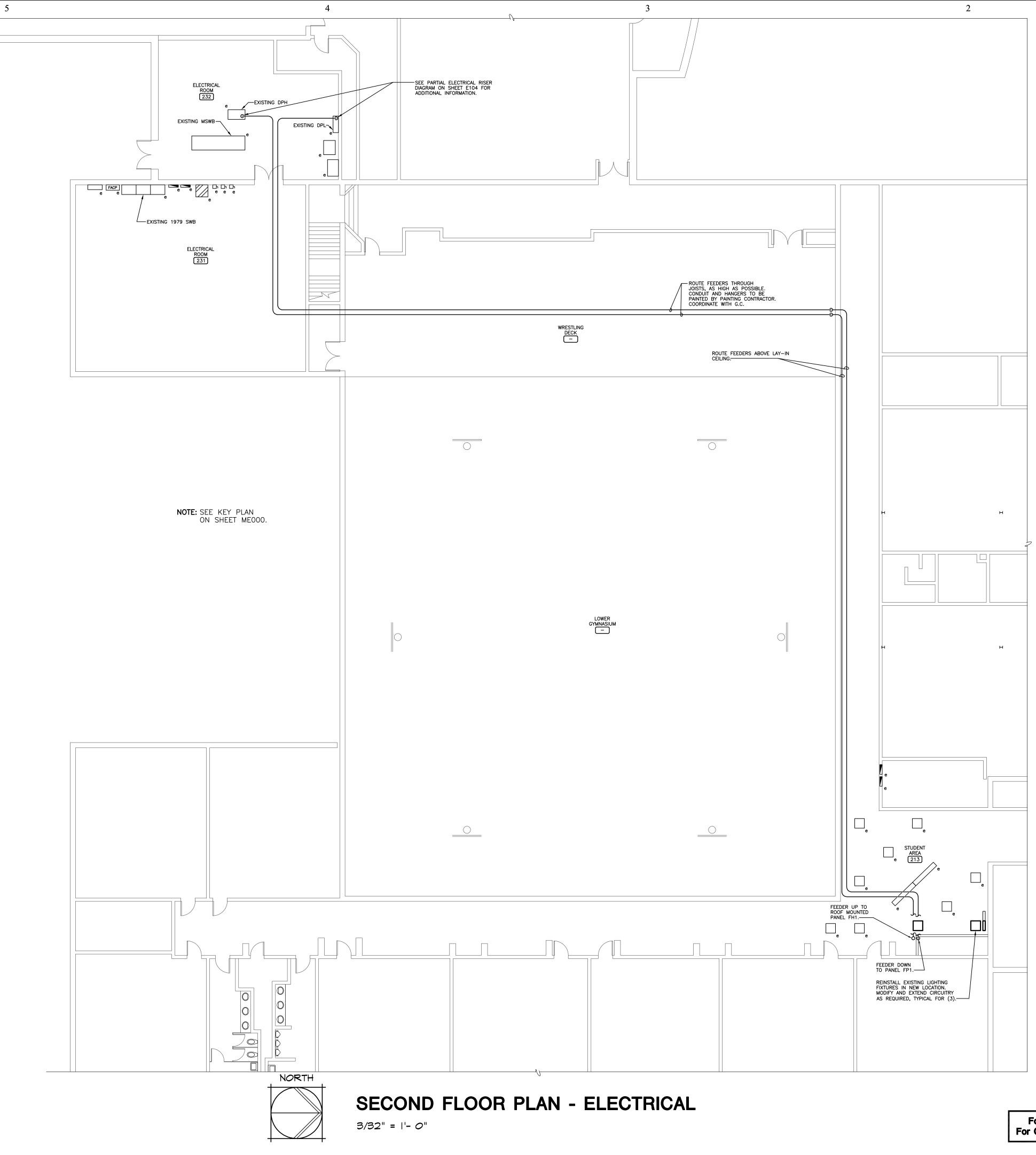












# For Pricing O For Construction

A	<image/> <section-header></section-header>
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C	REVISIONS:
D	Image: Constraint of the second system         Image: Constraint of the second system
Job No. 15011–1 I <b>GINEERING, P.A.</b>	PLAN Sheet: E103 Of:

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ORAZEM & SCALORA ENGINEERING, P.A. Manhattan, Kansas Manhattan, Kansas Copyright © Orazem & Scalora Engineering, P.A. 2018

1

LOCATION: Room 123B VOLTS: 120/208 CONFIGURATION: 3 Phase/4 MOUNTING: Surface Description Rcpt - 118 Comp. Refrig. Left Rcpt - 118 Comp. Refrig. Righ *Rcpt - 118 Comp. Refrig. Righ *Rcpt - 118 Comp. Range/Oven (Shunt Trip) *Rcpt - 118 Comp. Griddle/Over (Shunt Trip) *Rcpt - 118 Comp. Griddle/Over (Shunt Trip) Rcpt - 118 Comp. Micro./Steam (Shunt Trip) Rcpt - S. Preschool 115 Rcpt - N. Classroom 112 Rcpt - E. Preshool 115 Rcpt - 118 Food Processor Rcpt - 118 Comp. 20 Qt. Mixer Rcpt - 118 Comp. Transport Cab. Rcpt - 118 Comp. Transport Cab. Rcpt - 115 Refrigerator Rcpt - 115 Gen. Use Rcpt - 115 Range/Oven ** <u>FRH-6</u> FACs HVAC Control Cabinet	Conductors 2#12,#12G t 2#12,#12G 2#12,#12G 2#12,#12G 2#12,#12G 2#12,#12G 2#12,#12G	BUS 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	CKT.           2           4           6           8           10           12           14           16	200       – Equipme         NEMA 1       – Equal to         Description         Rcpt – S. Station Gen. Use         Rcpt – S. Station Oven         **FRH–1         Rcpt – S. Mid Station Gen. Use         Rcpt – S. Mid Station Oven	ard Construction nt Ground Bus Square D NQ Conductors 2#12,#12G 3#8,#10G 2#12,#12G Jse 2#12,#12G 3#8,#10G	<b>C/B</b> 20/1 50 2 20/1 20/1 50	0C1) 0C2	St St
CONFIGURATION: 3 Phase/4 MOUNTING: Surface Description Rcpt - 118 Comp. Refrig. Left Rcpt - 118 Comp. Refrig. Righ *Rcpt - 118 Comp. Holding Cab *Rcpt - 118 Comp. Range/Oven (Shunt Trip) *Rcpt - 118 Comp. Griddle/Over (Shunt Trip) *Rcpt - 118 Comp. Fryer	Conductors 2#12,#12G t 2#12,#12G 2#12,#12G 2#12,#12G 2#12,#12G 2#12,#12G 2#12,#12G	<b>C/B</b> 20/1 20/1 20/1 20/1 20/1 20/1	ENCL.: CKT. 2 4 6 8 10 12 14 16	NEMA 1       - Equal to         Description         Rcpt - S. Station Gen. Use         Rcpt - S. Station Oven         **FRH-1         Rcpt - S. Mid Station Gen. Use         Rcpt - S. Mid Station Oven	Square D NQ Conductors 2#12,#12G 3#8,#10G 2#12,#12G Jse 2#12,#12G	20/1 50 2 20/1 20/1		St
MOUNTING:SurfaceDescriptionRcpt - 118Comp.Refrig.LeftRcpt - 118Comp.Refrig.Righ*Rcpt - 118Comp.HoldingCab*Rcpt - 118Comp.Range/Oven(ShuntTrip)*Rcpt - 118Comp.Griddle/Over(ShuntTrip)*Rcpt - 118Comp.Fryer	Conductors 2#12,#12G t 2#12,#12G 2#12,#12G 2#12,#12G 2#12,#12G 2#12,#12G 2#12,#12G	<b>C/B</b> 20/1 20/1 20/1 20/1 20/1 20/1	CKT.           2           4           6           8           10           12           14           16	DescriptionRcpt – S. Station Gen. UseRcpt – S. Station Oven**FRH–1Rcpt – S. Mid Station Gen. URcpt – S. Mid Station Oven	Conductors 2#12,#12G 3#8,#10G 2#12,#12G Jse 2#12,#12G	20/1 50 2 20/1 20/1	<u>[0C2]</u>	St
DescriptionRcpt - 118Comp.Refrig.LeftRcpt - 118Comp.Refrig.Righ*Rcpt - 118Comp.HoldingCab*Rcpt - 118Comp.Range/Oven(ShuntTrip)*Rcpt - 118Comp.Griddle/Over(ShuntTrip)*Rcpt - 118Comp.Fryer	2#12,#12G t 2#12,#12G 2#12,#12G 2#12,#12G 2#12,#12G 2#12,#12G 2#12,#12G	20/1 20/1 20/1 20/1 20/1 20/1	$ \begin{array}{r}     2 \\     4 \\     6 \\     8 \\     10 \\     12 \\     14 \\     16   \end{array} $	Rcpt — S. Station Gen. Use Rcpt — S. Station Oven <u>**FRH-1</u> Rcpt — S. Mid Station Gen. U Rcpt — S. Mid Station Oven	2#12,#12G 3#8,#10G 2#12,#12G Jse 2#12,#12G	20/1 50 2 20/1 20/1	[ <u>OC2</u> ]	St
Rcpt–118Comp.Refrig.LeftRcpt–118Comp.Refrig.Righ*Rcpt–118Comp.HoldingCab*Rcpt–118Comp.Range/Oven(ShuntTrip)**Rcpt–*Rcpt–118Comp.Griddle/Over(ShuntTrip)**Rcpt–*Rcpt–118Comp.Fryer	2#12,#12G t 2#12,#12G 2#12,#12G 2#12,#12G 2#12,#12G 2#12,#12G 2#12,#12G	20/1 20/1 20/1 20/1 20/1 20/1	$ \begin{array}{r}     2 \\     4 \\     6 \\     8 \\     10 \\     12 \\     14 \\     16   \end{array} $	Rcpt — S. Station Gen. Use Rcpt — S. Station Oven <u>**FRH-1</u> Rcpt — S. Mid Station Gen. U Rcpt — S. Mid Station Oven	2#12,#12G 3#8,#10G 2#12,#12G Jse 2#12,#12G	20/1 50 2 20/1 20/1	[ <u>0C2</u> ]	S
Rcpt -118Comp.Refrig.Righ*Rcpt -118Comp.HoldingCab.*Rcpt -118Comp.Range/Oven(ShuntTrip)*Rcpt -118Comp.Griddle/Over(ShuntTrip)*Rcpt -118Comp.Fryer	t 2#12,#12G 2#12,#12G 2#12,#12G 2#12,#12G 2#12,#12G 2#12,#12G	20/1 20/1 20/1 20/1 20/1	$     \frac{         \frac{4}{6}}{         \frac{8}{10}}         \frac{10}{12}         \frac{14}{16}         $	Rcpt — S. Station Oven ** <u>FRH-1</u> Rcpt — S. Mid Station Gen. I Rcpt — S. Mid Station Oven	3#8,#10G 2#12,#12G Jse 2#12,#12G	50 2 20/1 20/1	[OC2]	S
*Rcpt - 118 Comp. Holding Cab *Rcpt - 118 Comp. Range/Oven (Shunt Trip) *Rcpt - 118 Comp. Griddle/Over (Shunt Trip) *Rcpt - 118 Comp. Fryer	2#12,#12G 2#12,#12G 2#12,#12G 2#12,#12G 2#12,#12G	20/1 20/1 20/1 20/1 20/1	8 10 12 14 16	** <u>FRH—1</u> Rcpt — S. Mid Station Gen. I Rcpt — S. Mid Station Oven	2#12,#12G Jse 2#12,#12G	2 20/1 20/1		S
*Rcpt — 118 Comp. Range/Oven (Shunt Trip) *Rcpt — 118 Comp. Griddle/Over (Shunt Trip) *Rcpt — 118 Comp. Fryer	2#12,#12G 2#12,#12G 2#12,#12G	20/1 20/1 20/1	8 10 12 14 16	Rcpt — S. Mid Station Gen. 1 Rcpt — S. Mid Station Oven	Jse 2#12,#12G	20/1 20/1		
(Shunt Trip) *Rcpt – 118 Comp. Griddle/Over (Shunt Trip) *Rcpt – 118 Comp. Fryer	2#12,#12G	20/1	$ \begin{array}{r} 10\\ 12\\ 14\\ 16\\ \end{array} $	Rcpt — S. Mid Station Gen. 1 Rcpt — S. Mid Station Oven	Jse 2#12,#12G	20/1		_
*Rcpt – 118 Comp. Griddle/Over (Shunt Trip) *Rcpt – 118 Comp. Fryer	2#12,#12G	20/1	12 14 16	Rcpt — S. Mid Station Oven				
(Shunt Trip) *Rcpt – 118 Comp. Fryer	2#12,#12G	20/1	<u>14</u> 16	· · · · · · · · · · · · · · · · · · ·			OC3	St
*Rcpt – 118 Comp. Fryer			16			2		
				** <u>FRH-2</u>	2#12,#12G	20/1		
Rcpt — 118 Comp. Micro./Steam	2#10,#10G		18	Rcpt - Mid Station Gen. Use		20/1	OC4	
-		30 /	20	Rcpt – Mid Station Gas Over		20/1		S
		2	22	** <u>FRH-4</u>	2#12,#12G	20/1		
- (Shunt Trip)			24	Rcpt - N. Mid Station Gen.		20/1		
Rcpt – S. Preschool 115	2#12,#12G	20/1	26	Rcpt - N. Mid Station Gas Ov		20/1	0C5	
Rcpt – N. Classroom 112	2#12,#12G	20/1	28	** <u>FRH-5</u>	2#12,#12G	20/1	005	S
Rcpt – E. Preshool 115	2#12,#12G		30	Rcpt - N. Station Gen. Use	2#12,#12G	20/1		
		20	32	Rcpt - N. Station Oven	3#8,#10G	50		
- Rcpt – 118 Food Processor	3#12,#12G		34			2	0C6	s
-		3	36	**FRH-3	2#12,#12G	20/1		
Rcpt – 118 Comp. 20 Qt. Mixer	2#12,#12G	20/1	38	Rcpt - Undercounter Ice Mak		20/1		
Rcpt — 118 Comp. Transport Cab.	2#12,#12G	20/1		Rcpt – 118 Freezer	2#12,#12G	20/1		
Rcpt - 118 Center Work Table	2#12,#12G	20/1	42	Rcpt – 118 Refrigerator	2#12,#12G	20/1		+
Rcpt — 115 Refrigerator	2#12,#12G	20/1	44	*Rcpt - 118 Class Gen. Use		20/1	RC1	s
Rcpt - 115 Microwave	2#12,#12G	20/1	46	*Rcpt - 118 Class Gen. Use		20/1		
Rcpt — 115 Gen. Use	2#12,#12G	20/1	48	Rcpt - 115 Washing Machine		20/1		+
Rcpt — 115 Range/Oven	3#8,#10G	50	50	Rcpt – 115 Dryer	3#10,#10G	30	RC2	
		2	52			2		S
** <u>FRH-6</u>	2#12,#12G	20/1	54	Spare		20/1		—
	2#12,#12G	20/1	56	Blower Coil Unit <u>BC-3</u>	2#12,#12G	15	RC3	
Rcpt — 115 Dishwasher	2#12,#12G		58			2		S
<u>KH-1</u> Lights	2#12,#12G	20/1	60	Rcpt – 115 Projector	2#12,#12G	20/1		
(Shunt Trip)			62	Gas Solenoid Valves	2#12,#12G			
<u>KH-1</u> Control Panel	2#12,#12G	20/1	64	Spare		20/1	RC4	S
<u>HWH-A</u> and <u>HWP</u>	2#12,#12G	20/1	66	Spare		20/1		
Rcpt – Rooftop Units	2#12,#12G	20/1	68	Spare		20/1		
Spare		20/1	70	Spare		20/1	KP1	s
Spare		20/1	72	Spare		20/1		
Provide GFCI protected breaker.							KP2	S
Provide lockout breaker.								

### PANELBOARD SCHEDULE PANEL DESIGNATION: Panel 'FH1 MIN A.I.C.: 10,000 FEATURES: LOCATION: Roof MCB Amps: 200 Panelboard Construction **VOLTS:** 480/277 BUS Amps: 200 - Equipment Ground Bus ENCL.: NEMA 3R **CONFIGURATION:** 3 Phase/4 Wire Equal to Square D NF **MOUNTING:** Surface CKT Description Conductors Description Conductors C/ 1 FACS 118 **3** Dishwasher 3#10,#10G 3#10,#10G 4 <u>MAU-F1</u> 2#12,#12G 2#12,#12G <u>uct Heater <u>DH-1</u></u> 10 3#8,#10G )uct Heater <u>DH-2</u> <u>MAU-F2</u> 2#12,#12G Duct Heater <u>DH-3</u> 13 Laundry 140B 15 3#10,#10G 16 3#12,#120 Clothes Washer <u>EF-F1</u> _aundry 140E 21 23 3#10,#10G Clothes Dryer <u>Spare</u> Spare ---

PANELBOARD SCHEDULE								
	PANEL DESIGNATION: PANEL 'J'		MIN	A.I.C.:	10,000	FEATURES	S:	
	LOCATION: Storage 1390	)		Amps:			oard Construction	
	<b>VOLTS:</b> 120/240				100		nent Ground Bus	
	CONFIGURATION: 1 Phase/3 W	/ire			NEMA 1	– Equal	to Square D NQ	
	MOUNTING: Surface							
CKT.	Description	Conductors	C/B	CKT.	Des	scription	Conductors	C/B
1	Rcpt – Stor. 139C, Lockers 139	2#12,#12G	20/1	2	Spare			20/1
3	Rcpt – Toilets 139D	2#12,#12G	20/1	4	Spare			20/1
5	Rcpt — Meeting 139B, Hall 138	2#12,#12G	20/1		<u>FC-1</u>		2#12,#12G	15
7	Rcpt — Storage 6, Lockers 140	2#12,#12G	20/1	8				2
9	Rcpt – Toilets 140D	2#12,#12G	20/1	10	<u>FC-2</u>		2#12,#12G	15
11	HVAC Control Panel	2#12,#12G	15/1	12				2
13	<u>EF-12</u>	2#12,#12G	20/1	14	<u>BC-1</u>		2#12,#12G	15
15	Rcpt — Ice Machine Training 143	2#12,#12G	20/1	16				2
17	Rcpt — Washer chemicals	2#12,#12G	20/1	18	BC-2		2#12,#12G	15
19	Spare		20/1	20				2
21	Spare		20/1	22	Spare			20/1
23	Spare		20/1	24				_
25	Spare		_	26				_
27			_	28				_
29			_	30				_

modifications. Туре  $\langle 1 \rangle$  $\langle 3 \rangle$  $\langle 4 \rangle$ 

NOTES:

		LIGHTING CONTROL DEVICE SCHEDULE	
MARK	MANUF.	DESCRIPTION	MOUNTING
OC1	Watt Stopper	LMDX—100 dual technology sensor with passive infrared and ultrasonic sensors, 40 kHz frequency ultrasonic transmission, adjustable time delay, automatic passive	Ceiling/Wall
		infrared adjustment, manual ultrasonic adjustment, 1000 sf of desktop motion coverage, 2000 sf of walking motion coverage, swivel mounting bracket. Complete	
		installation for integration to lighting management system.	
OC2	Watt Stopper	PW-100 Passive Infrared Wall Switch Sensor with pyroelectric sensor, adjustable time delay, sensitivity adjustment, 20' x 15' minor motion coverage, 120 volt relay,	Switch Box
	Watt	mountable in standard switch box. PW-311 Passive Infrared 0-10V Dimming Wall Switch Sensor with adjustable time	Switch Box
OC3	Stopper	delay, sensitivity adjustment, 20' x 15' minor motion coverage, 120 volt relay, mountable in standard switch box.	-
OC4	Watt	LMPX-100-3 Passive Infrared corner mount occupancy sensor with 2-sided aisle	Ceiling
	Stopper	lens, adjustable time delay, sensitivity adjustment, LCD display and pushbuttons for setting sensor and system parameters, and 10' x 60' of coverage. Complete	
	1.1.1	installation for integration to lighting management system.	
OC5	Watt Stopper	PW—301 Passive Infrared Wall Switch Sensor with adjustable time delay, sensitivity adjustment, 20' x 15' minor motion coverage, 120 volt relay, mountable in standard switch box.	Switch Box
	Watt	LMDC-100 dual technology sensor with passive infrared and ultrasonic sensors,	Ceiling
0C6	Stopper	40 kHz frequency ultrasonic transmission, adjustable time delay, automatic passive	
		infrared adjustment, manual ultrasonic adjustment, 1000 sf PIR coverage, 600 sf	
		of ultrasonic coverage. Complete installation for integration to lighting management system.	
	Watt	LMRC-211 Series Digital On/Off/0-10 Volt dimming single relay room controller.	Above Ceiling
RC1	Stopper	Plenum-rated construction for mounting above ceiling, RJ45 receptacles for cable	5
		connections. Complete installation for integration to lighting management system.	
RC2	Watt	LMRC-212 Series Digital On/Off/0-10 Volt dimming dual relay room controller.	Above Ceiling
	Stopper	Plenum-rated construction for mounting above ceiling, RJ45 receptacles for cable	
	Watt	connections. Complete installation for integration to lighting management system. LMRC-213 Series Digital On/Off/0-10 Volt dimming triple relay room controller.	Above Ceiling
RC3	Stopper	Plenum-rated construction for mounting above ceiling, RJ45 receptacles for cable	Above coming
		connections. Complete installation for integration to lighting management system.	
	Watt	LMRC-101 Series Digital On/Off room controller. Plenum-rated construction for	Above Ceiling
RC4	Stopper	mounting above ceiling, RJ45 receptacles for cable connections. Complete installation	
		for integration to lighting management system.	
KP1	Watt	LMSW-101 Series 1-Button wall switch.	Switch Box
	Stopper Watt	LMSW—102 Series 2—Button wall switch. Provide custom engraving for buttons,	Switch Box
KP2	Stopper	approve with Architect and Owner before ordering.	SWITCH DOX
	Watt	LMSW-105 Series 5-Button wall switch. Provide custom engraving for buttons,	Switch Box
KP3	Stopper	approve with Architect and Owner before ordering.	
	Watt	LMSW-108 Series 8-Button wall switch. Provide custom engraving for buttons,	Switch Box
KP4	Stopper	approve with Architect and Owner before ordering.	
EC	Watt	ELCU-200 lighting control unit, device wired to allow for automatic control of	Above Ceiling
	Stopper	lighting through occupancy sensor, and/or dimming device. U.L. 924 listed for use	
		with emergency lighting, 120V operation and plenum-rated.	
NOTES:			
		sensors per manufacturer's recommendations.	

2. Provide relays, power supplies, and circuitry for complete operation of sensors.

3. Set time delays - 15 minutes for offices, 20 minutes for classrooms, 20 minutes for commons, and 15 minutes for all other rooms with occupancy sensors.

4. Provide digital wireless configuration tool equivalent to Watt Stopper LMCT-100 for remote system and device

### LIGHTING CONTROL SEQUENCE SCHEDULE Description

Single Zone with Occupancy Sensor Light fixtures in space controlled by occupancy sensor with manual on/off from pushbutton device located near door.

Single Zone with Dimming Control and Occupancy Sensor Light fixtures in space controlled by occupancy sensor with manual on/off/dim from two button pushbutton device located near door. Fixtures will be controlled On/Raise (hold) with button #1 and Off/Lower (hold) with button #2.

<u>Typical Corridor</u> Light fixtures in space controlled by occupancy sensor with manual on/off from single button pushbutton devices located at each end of the corridor.

Emergency Exit Exterior emergency lighting fixture on exterior wall controlled by emergency lighting control unit. Fixture to be normally off. Upon loss of normal power, emergency lighting control unit to turn 'on' fixture with emergency power.

<u>2-Zones with Dimming, Occupancy Sensors</u>

2 separately controlled lighting zones in space controlled by occupancy sensor with manual on/off/dim from pushbutton device located near door. Main paddle button on 5 button keypad will control all light fixtures together on/off/dim. Individual zone control thru small buttons #2-#5. Control of zone #1 On/Raise (hold) with small button #2 on device, control of zone #1 Off/Lower (hold) with button #3 on device. Control of zone #2 On/Raise (hold) with small button #4 on device, control of zone #2 Off/Lower (hold) with button #5 on device. <u>3-Zones with Dimming</u>

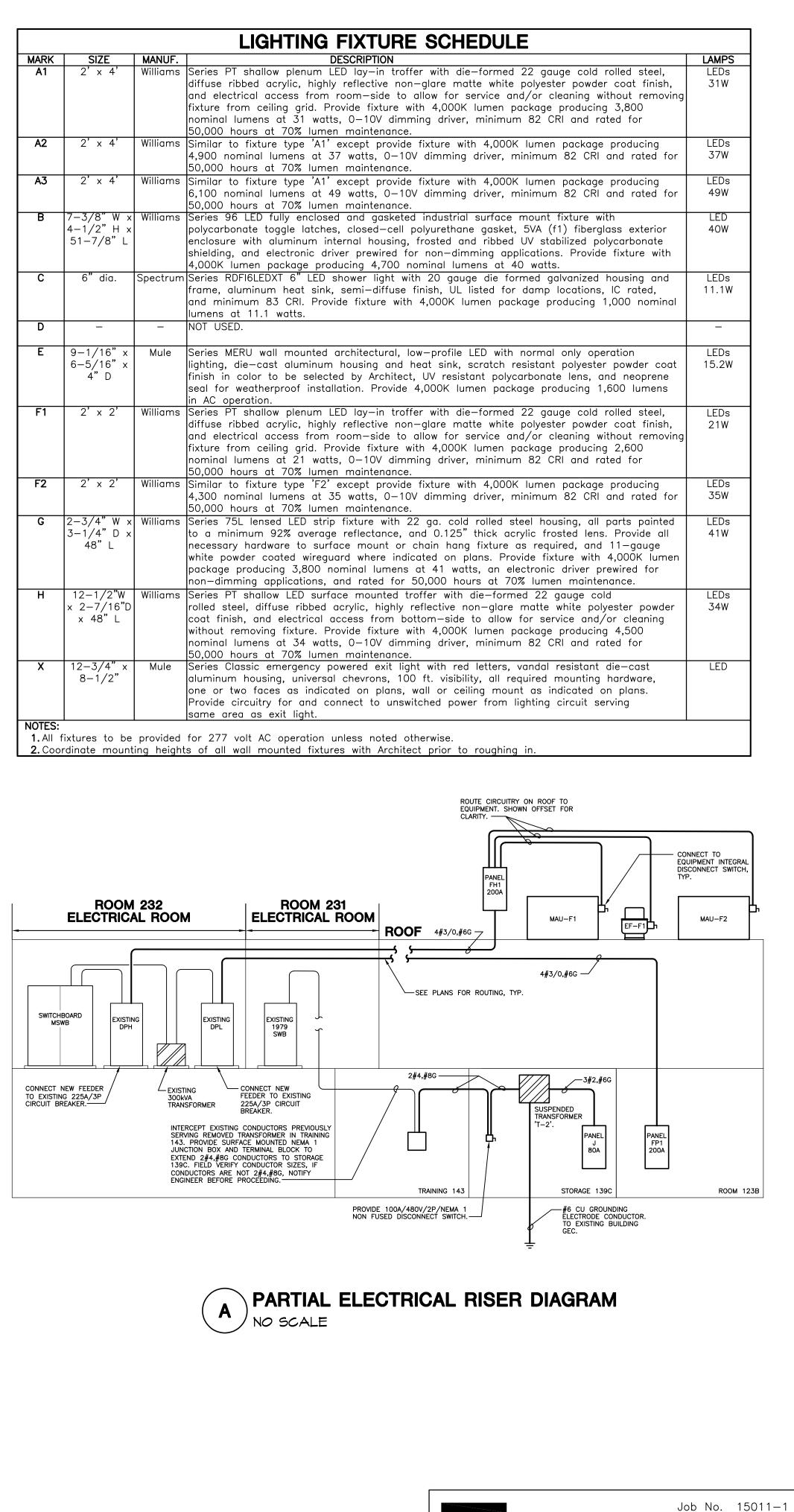
3 separately controlled lighting zones in space controlled by occupancy sensor with manual on/off/dim from pushbutton device located near door. Button #1 on 8 button keypad will control all light fixtures On/Raise (hold), button #2 will control all light fixtures Off/Lower (hold). Individual zone control thru small buttons #3—#8. Control of zone #1 On/Raise (hold) with button #3 on device, Off/Lower (hold) with button #4 on device. Control of zone #2 On/Raise (hold) with button #5 on device, Off/Lower (hold) with button #6 on device. Control of zone #3 On/Raise (hold) with button #7 on device, Off/Lower (hold) with button #8 on device.

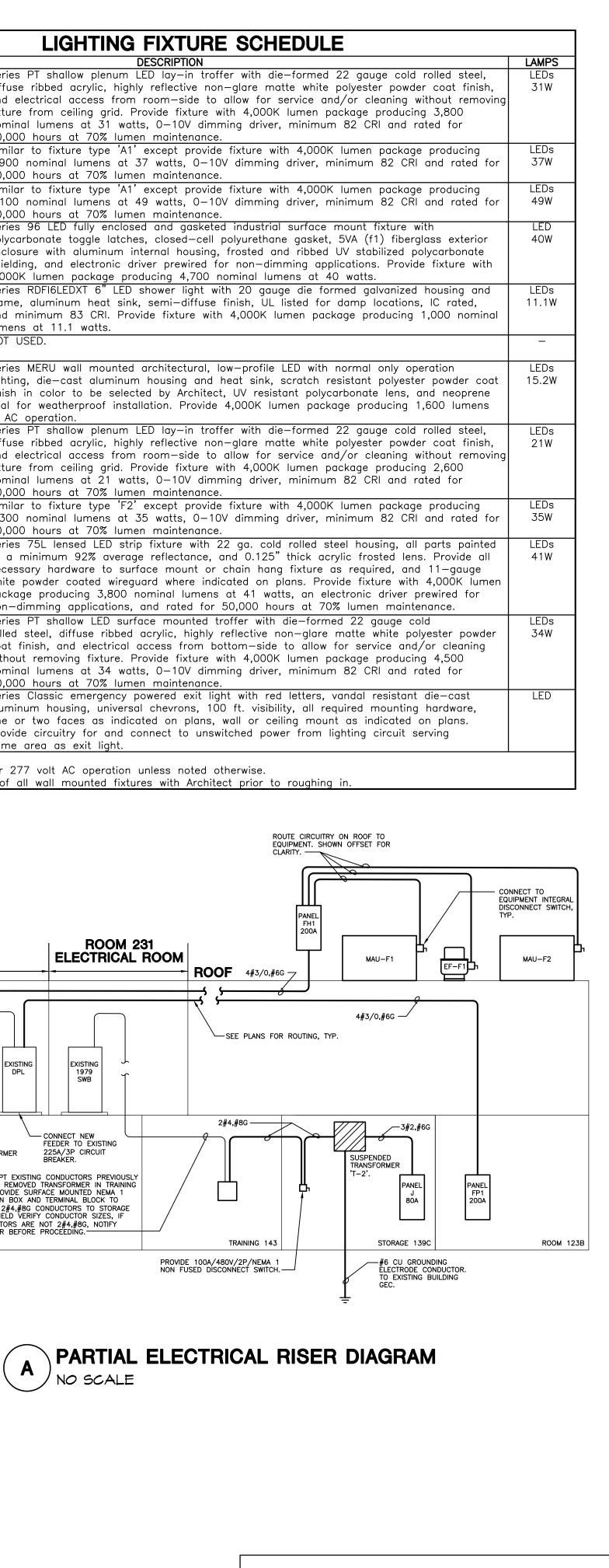
1. See floor plan for quantity and location of occupancy sensors, room controllers, and keypad devices.

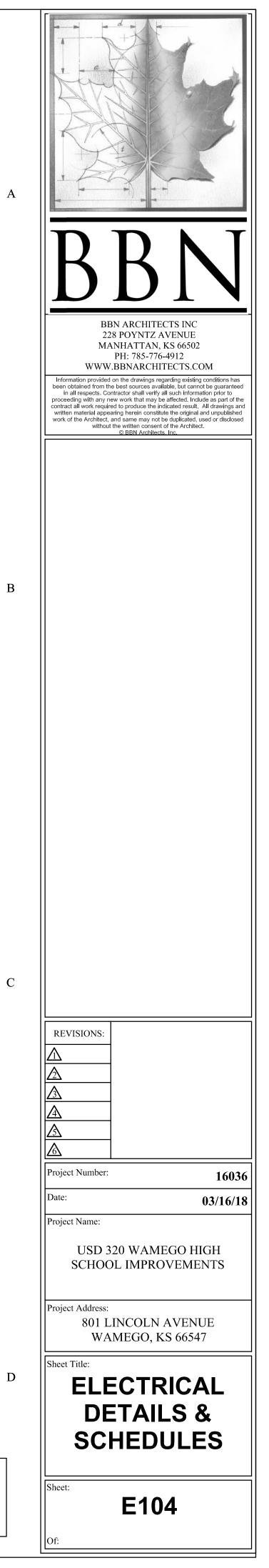


mounting. Provide NEC compliant signage for transformers served by remote disconnects. Equivalent to Square D EE.

			LIGHTING
MARK	SIZE 2' x 4'	MANUF.	
A1	2' x 4'	Williams	Series PT shallow plenun diffuse ribbed acrylic, hi and electrical access fro fixture from ceiling grid. nominal lumens at 31 w 50,000 hours at 70% lu
A2	2' x 4'	Williams	Similar to fixture type 'A 4,900 nominal lumens a 50,000 hours at 70% lu
A3	2' x 4'	Williams	Similar to fixture type 'A 6,100 nominal lumens a 50,000 hours at 70% lu
В	7-3/8"W x 4-1/2"H x 51-7/8"L	Williams	Series 96 LED fully enclo polycarbonate toggle latc enclosure with aluminum shielding, and electronic 4,000K lumen package p
С	6" dia.	Spectrum	4,000K lumen package p Series RDFI6LEDXT 6" LE frame, aluminum heat si and minimum 83 CRI. P lumens at 11.1 watts.
D	-	-	NOT USED.
E	9-1/16" x 6-5/16" x 4" D	Mule	Series MERU wall mounte lighting, die—cast alumin finish in color to be sel- seal for weatherproof ins in AC operation.
F1	2' x 2'	Williams	Series PT shallow plenun diffuse ribbed acrylic, hid and electrical access fro fixture from ceiling grid. nominal lumens at 21 w 50,000 hours at 70% lu
F2	2' x 2'	Williams	Similar to fixture type 'F 4,300 nominal lumens a 50,000 hours at 70% lu
G	2-3/4"W x 3-1/4"D x 48"L		Series 75L lensed LED s to a minimum 92% aver necessary hardware to s white powder coated wire package producing 3,800 non—dimming application
Η	12-1/2"W x 2-7/16"D x 48" L	Williams	Series PT shallow LED survey rolled steel, diffuse ribbe coat finish, and electrico without removing fixture. nominal lumens at 34 w 50,000 hours at 70% lu
X	12-3/4" × 8-1/2"	Mule	Series Classic emergency aluminum housing, unive one or two faces as inc Provide circuitry for and same area as exit light.
			for 277 volt AC operatio s of all wall mounted fix







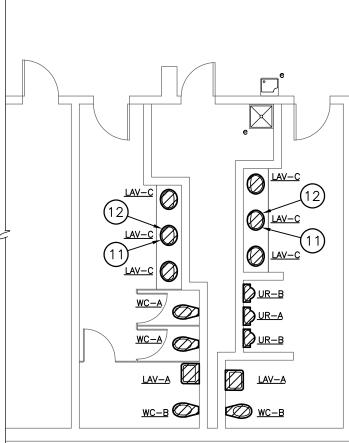
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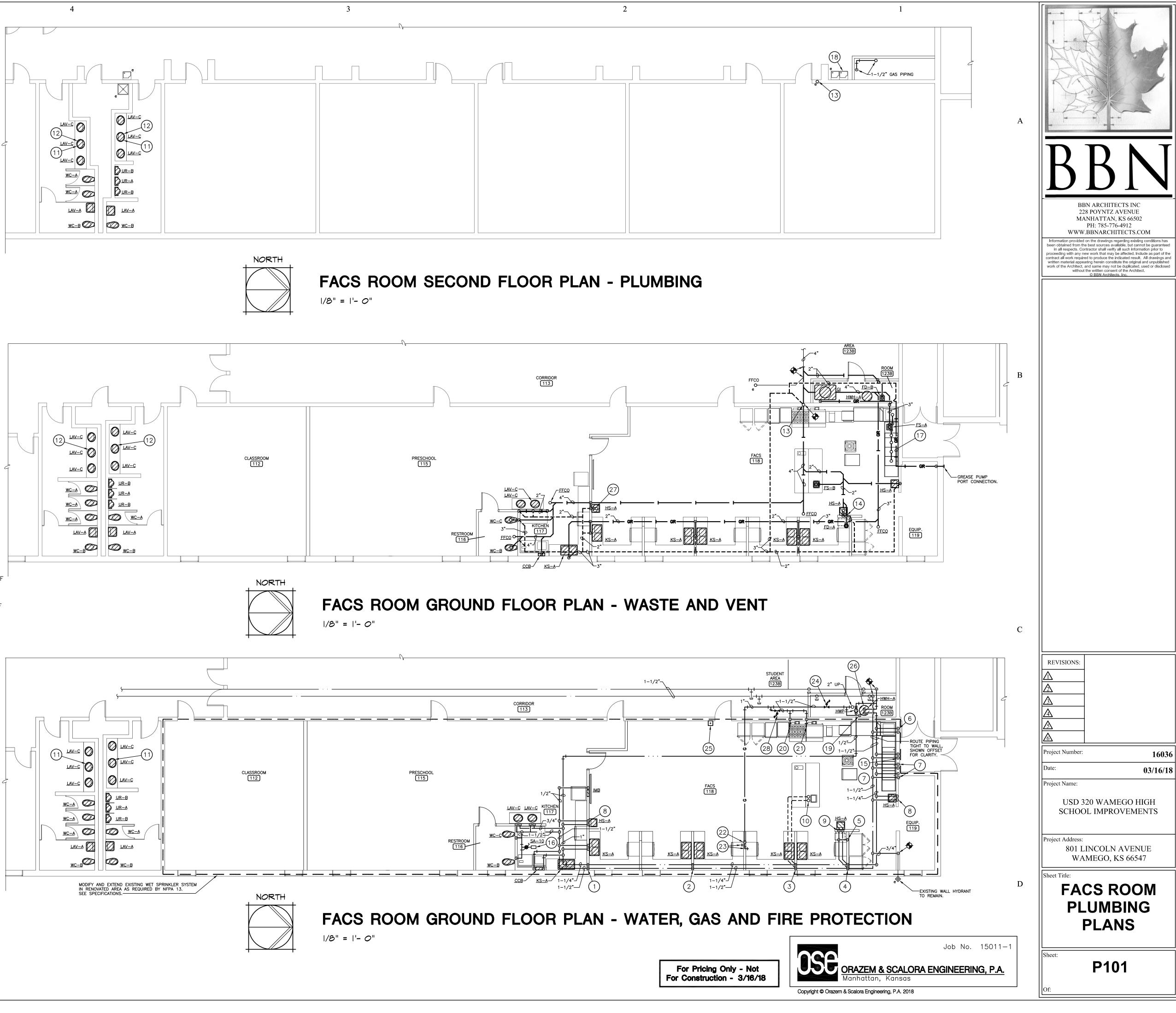
Manhattan. Kansas

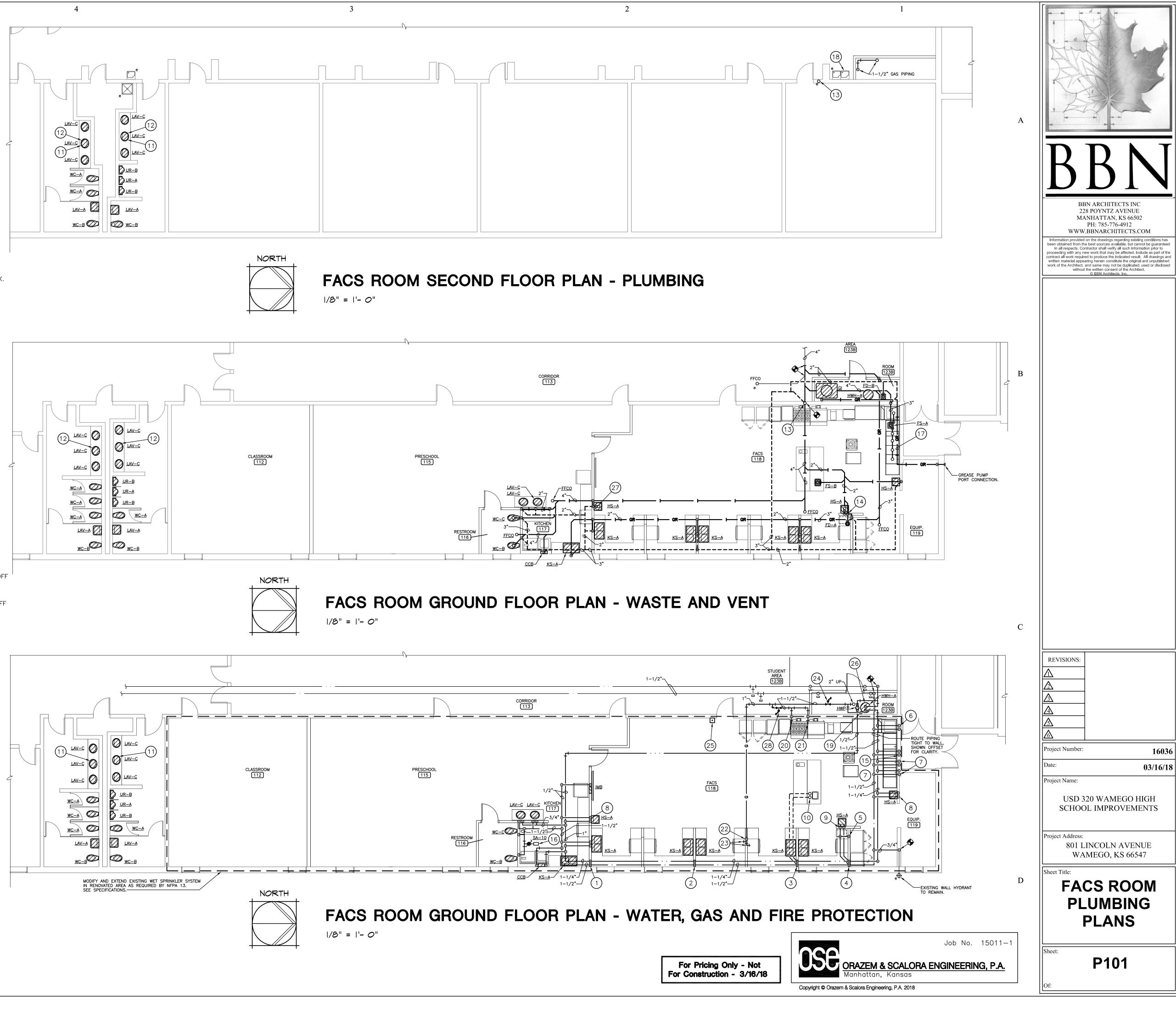
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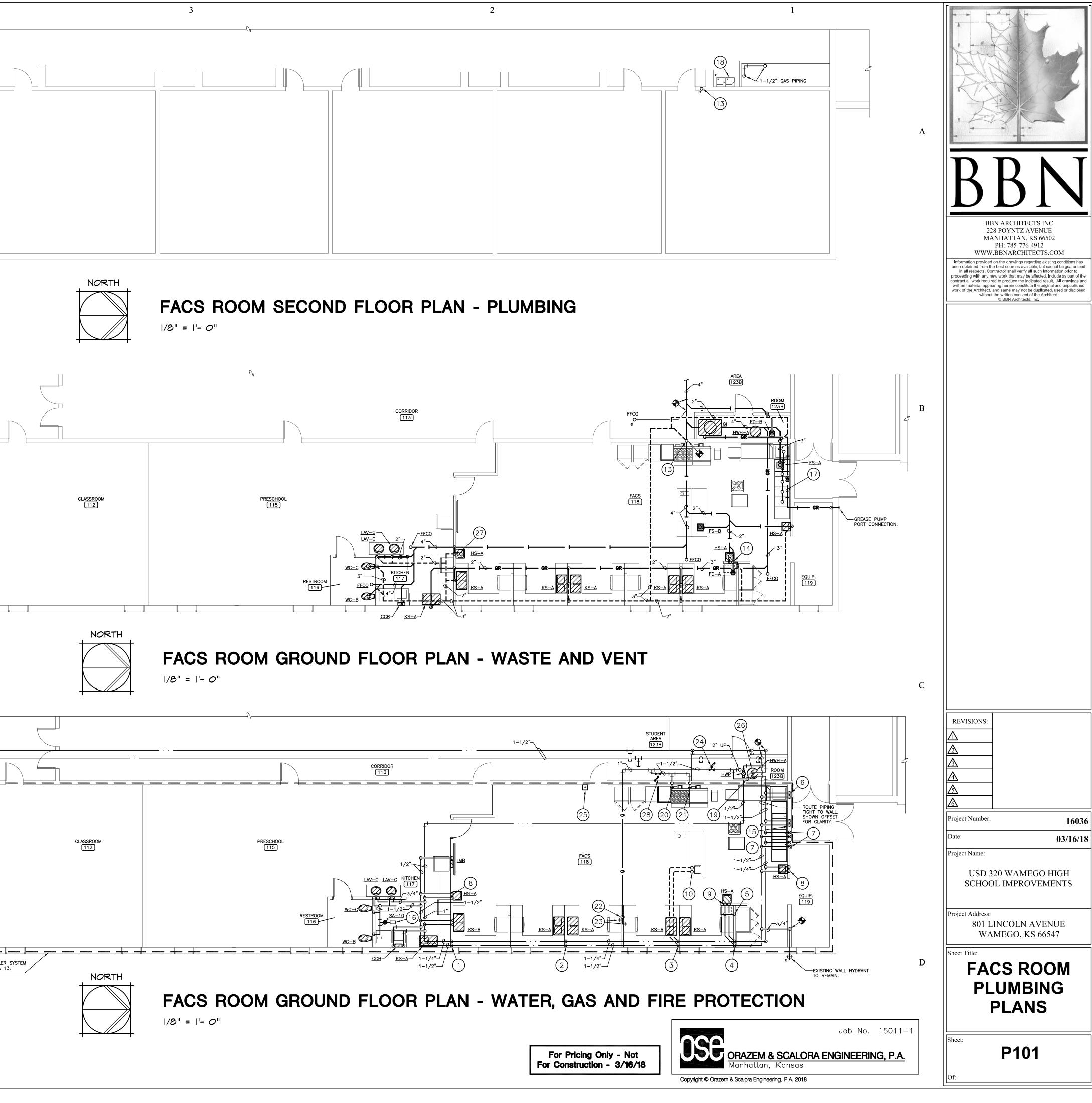
### PLUMBING NOTES BY SYMBOL

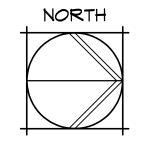
- 1 1/2" HW AND 1/2" CW DOWN IN WALL, ROUTE CONCEALED IN CASEWORK TO SERVE <u>KS-A</u> AND UNDER COUNTER DISHWASHER IN KITCHEN 117.
- 2 3/4" HW AND 3/4" CW DOWN IN WALL, ROUTE CONCEALED IN CASEWORK TO SERVE (2) <u>KS-A</u> WITH 1/2" HW AND 1/2" CW TO EACH FAUCET.
- (3) 3/4" HW AND 3/4" CW DOWN IN WALL, ROUTE CONCEALED IN CASEWORK TO SERVE (2) <u>KS-A</u> AND (1) WORKTABLE SINK. ROUTE 1/2" HW AND 1/2" CW IN FLOOR TO WORKTABLE SINK, PROVIDE 1/2" HW AND 1/2" CW TO EACH <u>KS-A</u> FAUCET.
- 4 1/2" HW AND 1/2" CW DOWN IN WALL, ROUTE CONCEALED IN WALL TO SERVE HANDSINK AND ICE MAKER, SHOWN OFFSET FOR CLARITY.
- 5 3/8" CW TO UNDER COUNTER ICE MAKER. COORDINATE REQUIREMENTS FOR BACKFLOW PREVENTION WITH ICE MAKER SUPPLIER.
- 6 1/2" HW AND 1/2" CW DOWN TO SERVE DISHWASHER. SEE DÍSHWASHER CONNECTION DETAIL B/P103.
- 7 1/2" HW AND 1/2" CW DOWN TO SERVE BACKSPLASH MOUNTED SÍNK FAUCET.
- (8) 1/2" HW AND 1/2" CW DOWN TO SERVE HANDSINK <u>HS-A.</u>
- (9) 1/2" HW AND 1/2" CW UP TO SERVE HANDSINK <u>HS-A</u>.
- (10) 1/2" HW AND 1/2" CW UP THROUGH FLOOR TO SERVE WORK SINK.
- (11) NEW PLUMBING FIXTURE TO BE CONNECTED TO EXISTING DOMESTIC WATER ROUGH-INS. MODIFY WATER CONNECTIONS AS REQUIRED FOR NEW PLUMBING FIXTURE, TYPICAL FOR THIS ROOM.
- 12 NEW PLUMBING FIXTURE TO BE CONNECTED TO EXISTING WASTE ROUGH-INS. MODIFY WASTE CONNECTIONS AS REQUIRED FOR NEW PLUMBING FIXTURE, TYPICAL THIS ROOM.
- (13) 4" EXISTING WASTE VENT STACK UP TO ROOF.
- (14) 2" CIRCUIT VENT DOWN TO SERVE HAND SINK, <u>FD-A</u>, AND <u>FS-B</u>. (15) 3/4" HW AND 3/4" CW DOWN TO SERVE BACKSPLASH MOUNTED PRERINSE FAUCET.
- (16) INSTALL SHOCK ARRESTOR IN ACCESSIBLE LOCATION ABOVE LAY-IN CEILING.
- (17) 3" PVC ABOVE GRADE PIPING FOR GREASE INTERCEPTOR REMOTE PUMPOUT PORT KIT. ROUTE PIPING TIGHT TO WALL, SHOWN OFFSET FOR CLARITY.
- (18) MODIFY VENT AND DOMESTIC WATER PIPING AS REQUIRED TO INSTALL RELOCATED TRANSFER AIR GRILLE ABOVE DRINKING FOUNTAIN, SEE SHEET M101 FOR MECHANICAL WORK.
- (19) 1" NATURAL GAS PIPING DOWN TO WATER HEATER. PROVIDE GAS COCK, UNION, AND 6" DEEP DIRTLEG.
- 20 1-1/4" NATURAL GAS PIPING DOWN TO RANGE. PROVIDE GAS COCK AND 6" DEEP DIRTLEG. PROVIDE 24" U.L. LISTED FLEXIBLE GAS CONNECTOR TO ALLOW EQUIPMENT TO BE MOVED FOR CLEANING.
- (21) 1" NATURAL GAS PIPING DOWN TO GRIDDLE. PROVIDE GAS COCK AND 6" DEEP DIRTLEG. PROVIDE 24" U.L. LISTED FLEXIBLE GAS CONNECTOR TO ALLOW EQUIPMENT TO BE MOVED FOR CLEANING.
- (22) 1" NATURAL GAS PIPING DOWN IN WALL, PROVIDE 6" DEEP DIRTLEG IN WALL
- 23 3/4" NATURAL GAS PIPING TO RANGE. PROVIDE GAS COCK AND 24" U.L. LISTED FLEXIBLE GAS CONNECTOR TO ALLOW EQUIPMENT TO BE MOVED FOR CLEANING. CONNECT TO AUTOMATIC GAS SHUT-OFF VALVE PROVIDED WITH FIRE READY HOOD FOR OPERATION WHEN HOOD SUPPRESSION SYSTEM IS ACTIVATED.
- (24) NATURAL GAS SOLENOID VALVE CONNECTED TO EMERGENCY SHUT-OFF PUSHBUTTON IN FACS ROOM. COORDINATE WITH E.C.
- (25) NATURAL GAS EMERGENCY SHUT-OFF PUSHBUTTON.
- (26) SEE WATER HEATER DETAIL A/P103.
- 27) 2" BRANCH WASTE PIPE AND 2" BRANCH VENT PIPE SERVING HAND SINK, TYPICAL.
- (27) PROVIDE AUTOMATIC GAS SHUT-OFF VALVE FOR OPERATION WHEN HOOD SUPPRESSION SYSTEM IS ACTIVATED.

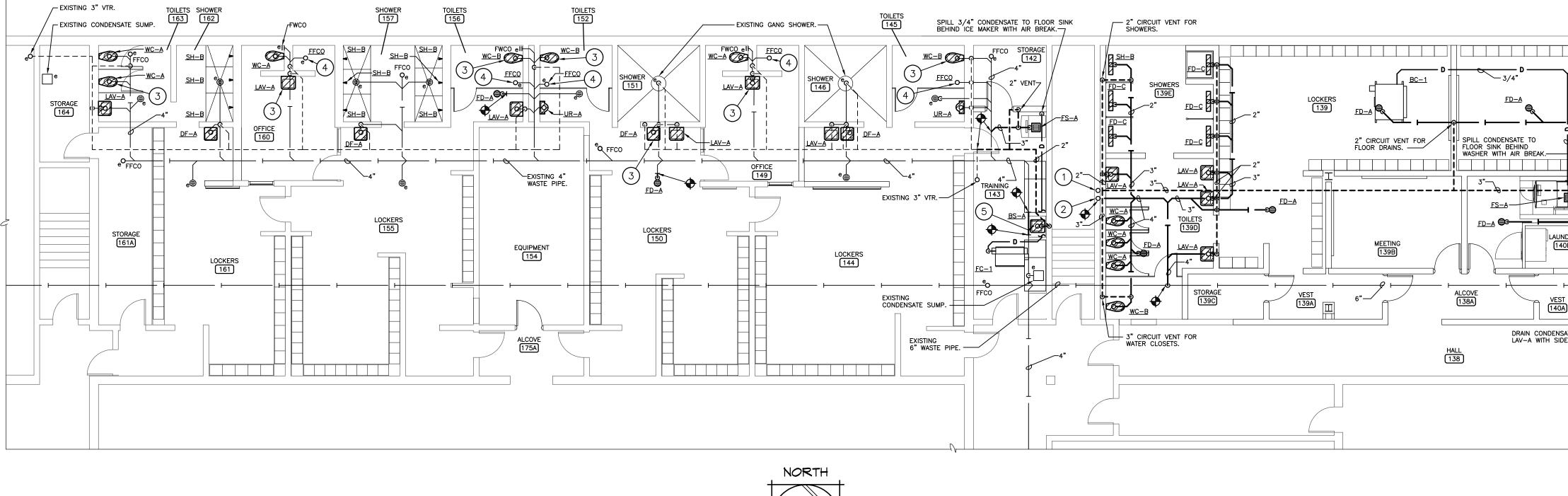


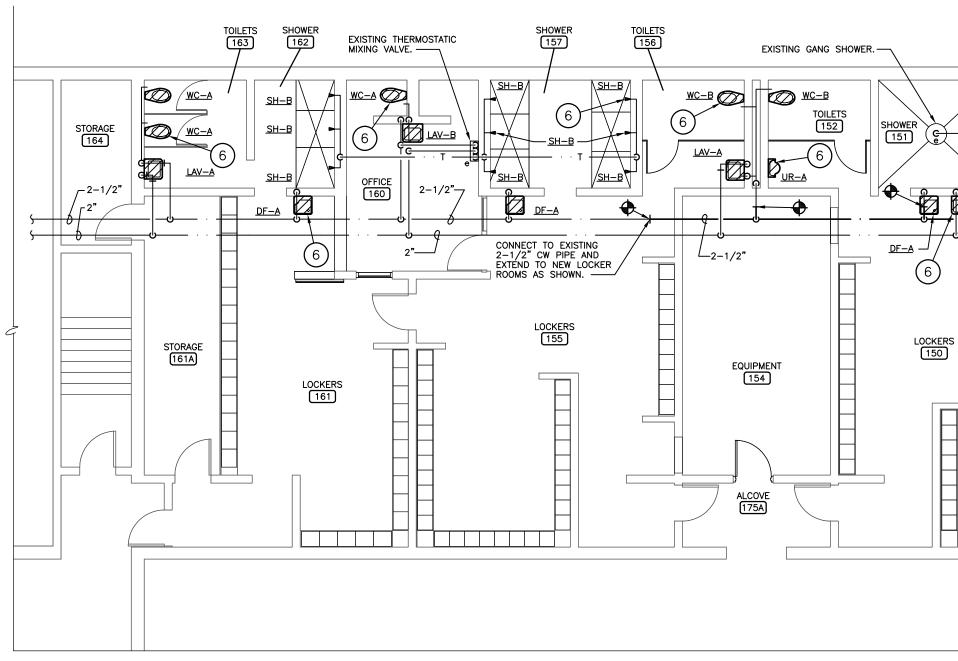






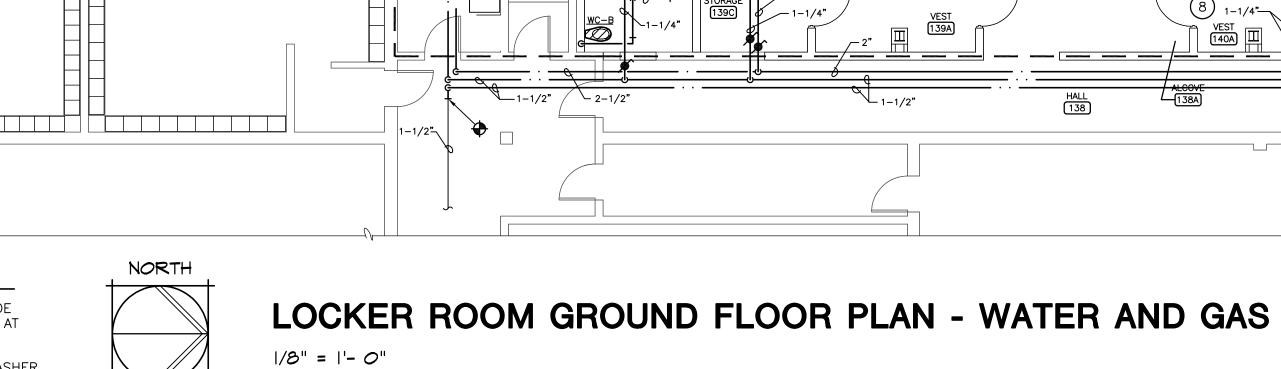






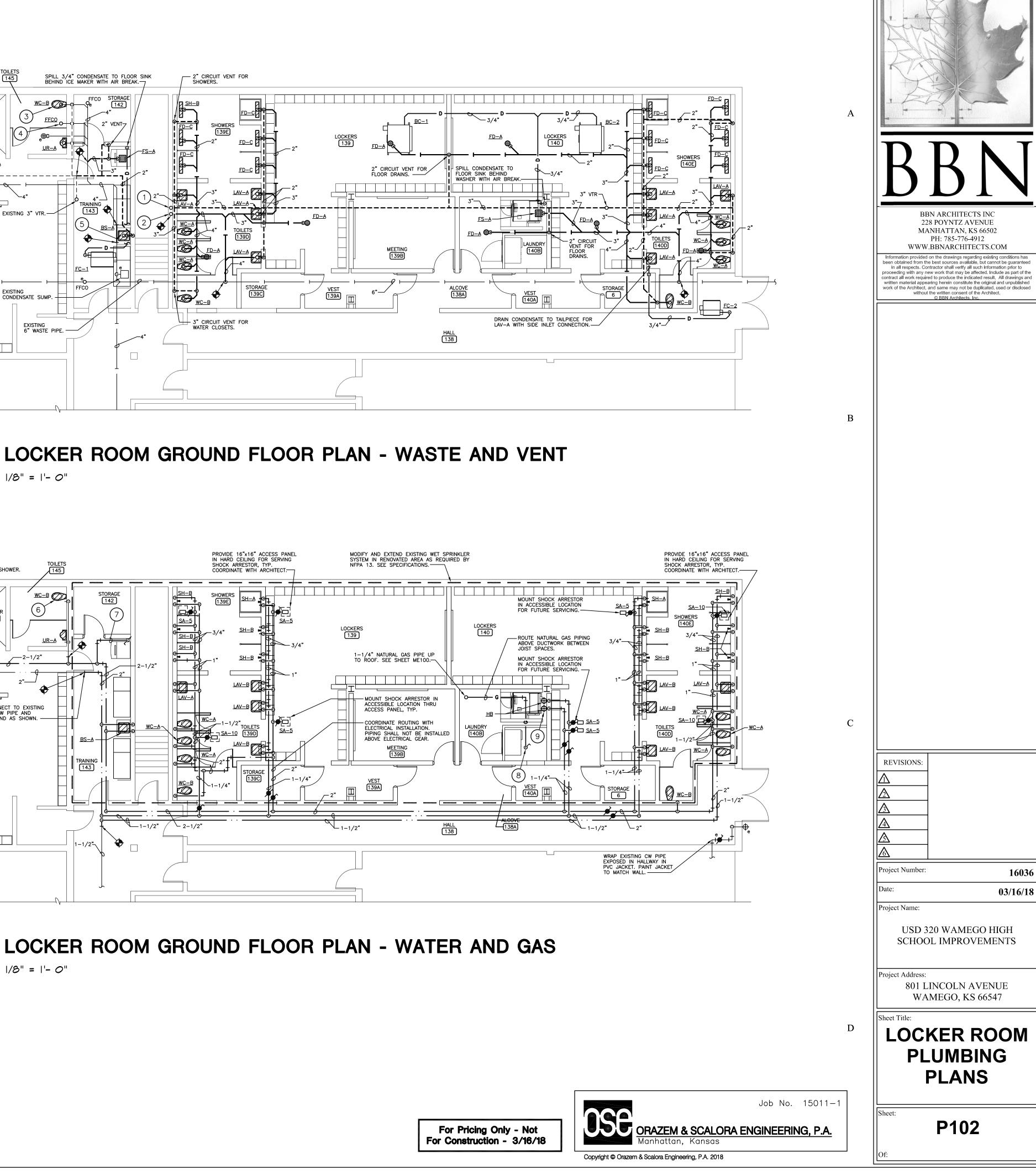
### PLUMBING NOTES BY SYMBOL

- (1) EXISTING 3" VENT UP TO FLOOR ABOVE.
- (2) EXISTING 2" WASTE DOWN FROM FIXTURE ABOVE.
- 3 NEW PLUMBING FIXTURE TO BE CONNECTED TO EXISTING WASTE ROUGH-INS. MODIFY WASTE CONNECTIONS AS REQUIRED FOR NEW PLUMBING FIXTURE, TYPICAL THIS ROOM.
- (4) PROVIDE AND INSTALL FINISHED FLOOR CLEAN OUT IN WASTE LINE SERVING REMOVED PLUMBING FIXTURE.
- 5 CONNECT 2" WASTE FROM BAR SINK, <u>BS-A</u>, TO EXISTING 4" BELOW GRADE WASTE.
- 6 NEW PLUMBING FIXTURE TO BE CONNECTED TO EXISTING DOMESTIC CW AND HW WATER ROUGH-INS. MODIFY WATER CONNECTIONS AS REQUIRED FOR NEW PLUMBING FIXTURE, TYPICAL FOR THIS ROOM.
- 7 1/2" CW TO ICE MAKER. PROVIDE BALL VALVE IN ACCESSIBLE LOCATION. TRANSITION FROM 1/2" TO 3/8" CW PIPE AND INSTALL BACKFLOW PREVENTER ON WALL BEHIND ICE MACHINE, EQUIVALENT TO WATTS SD-2 LEAD FREE DUAL CHECK BACKFLOW PREVENTION ASSEMBLY.
- 8) 1–1/4" NATURAL GAS CONNECTION TO DRYER. PROVIDE GAS COCK AND UL LISTED FLEXIBLE GAS CONNECTOR AT UNIT CONNECTION.
- 9 PROVIDE (3) 4' LONG 1" BRAIDED METAL CLOTHES WASHER CONNECTION HOSES TO WASHER. PROVIDE WYE FITTING FOR HW SUPPLY CONNECTION.



PROVIDE 16"x16" ACCESS PANEL IN HARD CEILING FOR SERVING SHOCK ARRESTOR, TYP. MODIFY AND EXTEND EXISTING WET SPRINKLER SYSTEM IN RENOVATED AREA AS REQUIRED BY NFPA 13. SEE SPECIFICATIONS. EXISTING THERMOSTATIC EXISTING GANG SHOWER. 145 COORDINATE WITH ARCHITECT .-WC-A <u>WC-В</u> (139E) LOCKEF LOCKERS <u>UR-</u>A DF-A 1–1/4" NATURAL GAS PIPE UP TO ROOF. SEE SHEET ME100.— <u>~~2-1/2"</u> SH-B OFFICE <u>LAV-A</u> — <u>LAV-A</u> - MOUNT SHOCK ARRESTOR IN ACCESSIBLE LOCATION THRU ACCESS PANEL, TYP. CONNECT TO EXISTING 2" HW PIPE AND EXTEND AS SHOWN. — - COORDINATE ROUTING WITH ELECTRICAL INSTALLATION. PIPING SHALL NOT BE INSTALLED ABOVE ELECTRICAL GEAR. TOILETS AUNDRY (140B) <u>BS-A</u> MEETING 139B LOCKERS TRAINING HALL 138

|/8" = |'- *0*"

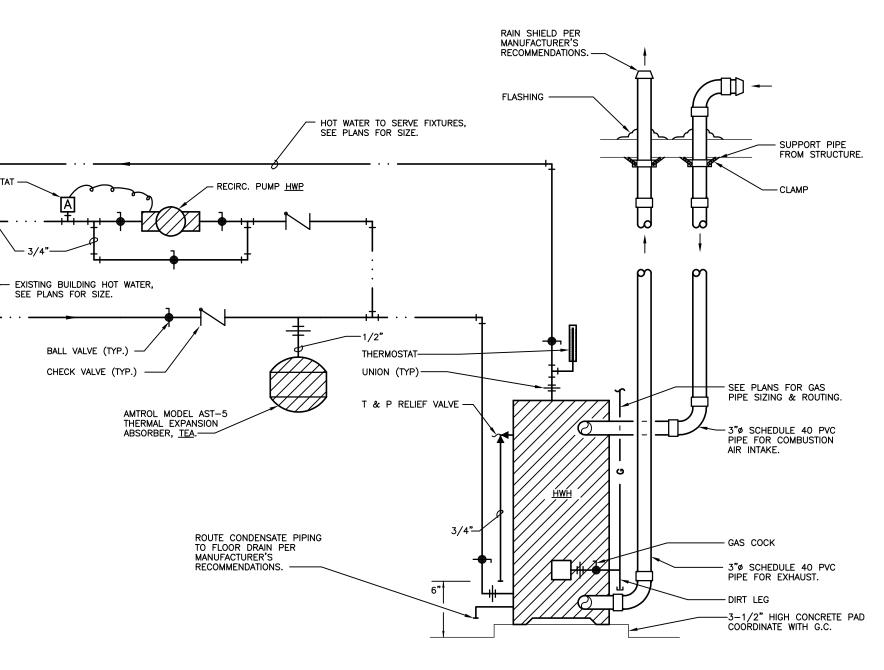


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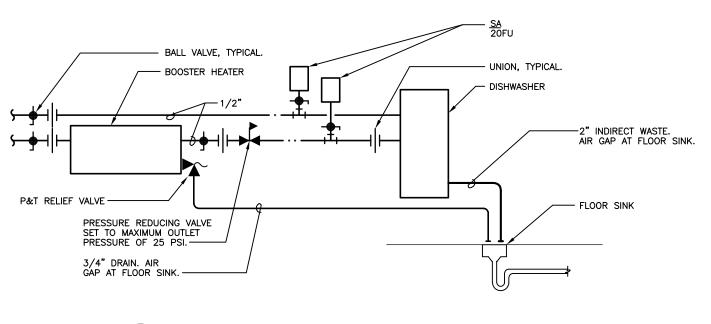
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PLUMBING FIXTURE	MINIMUM	<b>ROUGH-IN</b>	SIZE SCHE	DULE
FIXTURE/DESIGNATION	WASTE	VENT	COLD WTR.	HOT WTR.
FLUSH VALVE WATER CLOSET/WC-A,B,C	4"	2"	1 "	
URINAL/UR-A,B	2"	2"	3/4"	
LAVATORY/LAV-A,B,C	2"	2"	1/2"	1/2"
HANDSINK/HS-A	2"	2"	1/2"	1/2"
BAR SINK/BS-A	2"	2"	1/2"	1/2"
KITCHEN SINK/KS-A	2"	2"	1/2"	1/2"
SHOWER/SH-A,B	2"	2"	1/2"	1/2"
DRINKING FOUNTAIN/DF-A	2"	2"	1/2"	
CLOTHESWASHER CONNECTION BOX/CCB	2"	2"	1/2"	1/2"
ICEMAKER BOX/IMB			1/2"	
FLOOR DRAIN/FD-A,B,C	2"	2"		
FLOOR SINK/FS-A	3"	2"		
FLOOR SINK/FS-B	2"	2"		

3









					LU	
	<b>For fi</b>		marl	ked	(ADA)	), fix
	require	ement	s of	the	2010	Am
2. 3	Coord All fix	inate tures	fixture	e loo be	cation provid	is W Hed
4.	Provid	e car	rier re	equii	red fo	or c
<u>WC-A</u>	Zurn top sj	Z5655	5 vitre	ous	chine	a, fl
	breake Zurn	er and	d angl	le s	top. f	-ixtu
<u>WC-B</u> (ADA)	Zurn	Z5665	5 ADA	vitr	eous	chir
(ADA)	1—1/2 vacuu	z top mbre	o spuc eaker.	a to anc	ilet, ile sti	ן ו סס מ
	FLUSH	VALV	/E.			
<u>WC-C</u>	Zurn 1.6 G	Z5675 df 1	o vitre _1/2'	ous ' to	chino S SDU	а, с 
	with v	acuur	n bre	aker	and	ang
<u>UR-A</u> (ADA)	Zurn	Z5755	5-U v	itrec	ous cl	hina
(ADA)	spud, valve	with v	vacuui	m b	reake	r, A
	valve with li Zurn	p at	maxir	num	of	17"
<u>UR-B</u>	∠urn spud,	25755 intea	n−U v ral tra	itrec	wall h	nina nana
	valve Zurn	with	vacuu	<u>m b</u>	reake	r ar
LAV-A (ADA)	Zurn ZW387	Z5344 70XI T-	⊦20″ -4P r	x 1 noint	8″ vi	treo
	ZW387 faucet	with	4"s	pout	, 0.5	gpi
	Dearb	orn si	upplies	s wi	th sta	ops
	cast l with r					
	piping	, equi	valent			
LAV-B	bolted Zurn	to fl 75344	loor. - 20"	× 1	8" vi	treo
	ZW387 faucet	OXLT-	-4P p	point	ofu	ise
	faucet	with	4"s	pout	, 0.5	gpi
	Dearbo cast t	orass	P-tro	w at	vith c	lean
<u>LAV-C</u> (ADA)	Zurn	Z5124	- self-	-rim	ming	rou
(ADA)	Zurn Zurn faucet	ZW38, with	-OXLT 4 ° م	-4P nout	point 0.5	t of
	with s	tops	and e	escu	tcheo	n pl
	with c piping	leano	ut plu	ig. F	ixture	
	Handi	Lav-	Guard	msisi mc	ing a inufac	ture
<u>BS-A</u>	Handi Just S	SLX-2	019-	A–G	R sel	f-riı
	x 10- with Z	-1/2   .urn 2	D insi Z831A	de, 1-X	tully L—16l	sour F fa
	indexe and D Elkay	d hot	orc	old	2-1/	′2"
<u>KS–A</u>	and D Flkav	earbo	<u>rn 1-</u> 322 2	$\frac{-1}{2}$		<u>st b</u> typ
	kitche straine	n sink	, eac	h c	ompa	rtme
	straine	er. Tri	m wit	h Z	urn Z	:831
	cast l brass					
<u>HS-A</u>	brass Hands					
	anti-s 17 ag	scald Loffs	therm set tai	osto ilpied	itic m ce an	uxin d 1
<u>SH-A</u> (ADA)	17 ga Provid	e trin	n for	han	dicap	ped
(ADA)	anti—s to lim head	it har	pressi	ure	balan	cing inte
	head	with i	ntegro	urn, ul 1.	.75 G	PM
	metal	hose	with	in–	line v	acu
	with A Acces:					
<u>SH-B</u>	Acces: Trim 1	or sh	iower:	Ζι	urn Z	730
	lever Pipina					
<u>DF-A</u> (ADA)	Piping Haws	1201	vitre	ous	china	wa
(ADA)	and s adjust Guy G	traine ment	r, 7″	inte	gral l aral l	oack P—tr
<u>CCB</u>	Guy G	ray T	200 c	loth	eswas	sher
	or bo [.]	ttom	supply	/ CO	nnect	ions
	steel Guy G	rav E	BIM875	i. SAB	icemo	aker
	galvar	nized	steel	rece	essed	hοι
RH	Woodf backfl					
	hvdrar	nt sur	pport.	dec	k fla	nae.
<u>FD–A</u>	top o [.] Floor	t the drain	unit for f	with inish	out re	emo reas
	top o Floor 6"sa Floor	tin nia	ckel b	ronz	e top	).
<u>FD-B</u>	Floor	drain	for n	nech	ianica remu	il ro
<u>FD-C</u>	loose Floor	drain	for s	how	ers –	- Zu
	adjust with V	able †	top w	ith ⁻	Гуре	304 "
	trap ç	' snap Juard	7256	nanr 30—I	nei, ∠ F.	INC
<u>GI</u>	Schier	GB-	75 gr	ease	e inte	rcep
	4" tap liquid	ped i	inlet o hity in	and atea	outle [:] ral_fl(	t, 2° Sw (
	bolted					
<u>FWCO</u>	16,00 Wade	<u>) Ib I</u>	load r	atin	g. Pro	<u>bivc</u>
<u>FWCO</u>	waae steel	cover	−∟ ci olate	eanc secu	ired t	ew top
<u>FFCO</u>	Finishe	ed flo	or cle	eano	ut, W	ade
	threac round	led ac secu	djusta red ni	ble ickel	housıı bror	ng, Ize
<u>SA</u>	Wade	Shock	< Arre	stor	s, sto	ainle
	125 p	osi ma <b>kture</b>		n o		ing <b>)esig</b>
	11/	1-1			L	S/
		12-3				SA- SA-
FS-A	3"Flo	<u>33-6</u> or sir	<u>nk –</u>	Wad	e 91	<u>- 58-</u> 40
	double	e drai	nage	flan	ge, b	otto
	indirea coatea					
<u>FS-B</u>	2"Flc	or sir	1k –	Wad	e 91	10 8
	double	e drai	nage	flan	ge, b	otto
	indirea cast i	ron w	here	not	subje	ected
<u>HWH-A</u>	State	SPC-	·50-1	30-	NE g	as f
HB	storag Woodf	ord m	nodel	26,	hose	bib
	threac	l outle	et. Ho	se	bibb 🗉	shal
TEA	Therm butyl					
1.0.40	workin Hot w					
HWP	Hot w 3250	ater ( RPM	circulo 120	ition volt	pum 1 n	p, 1 hase
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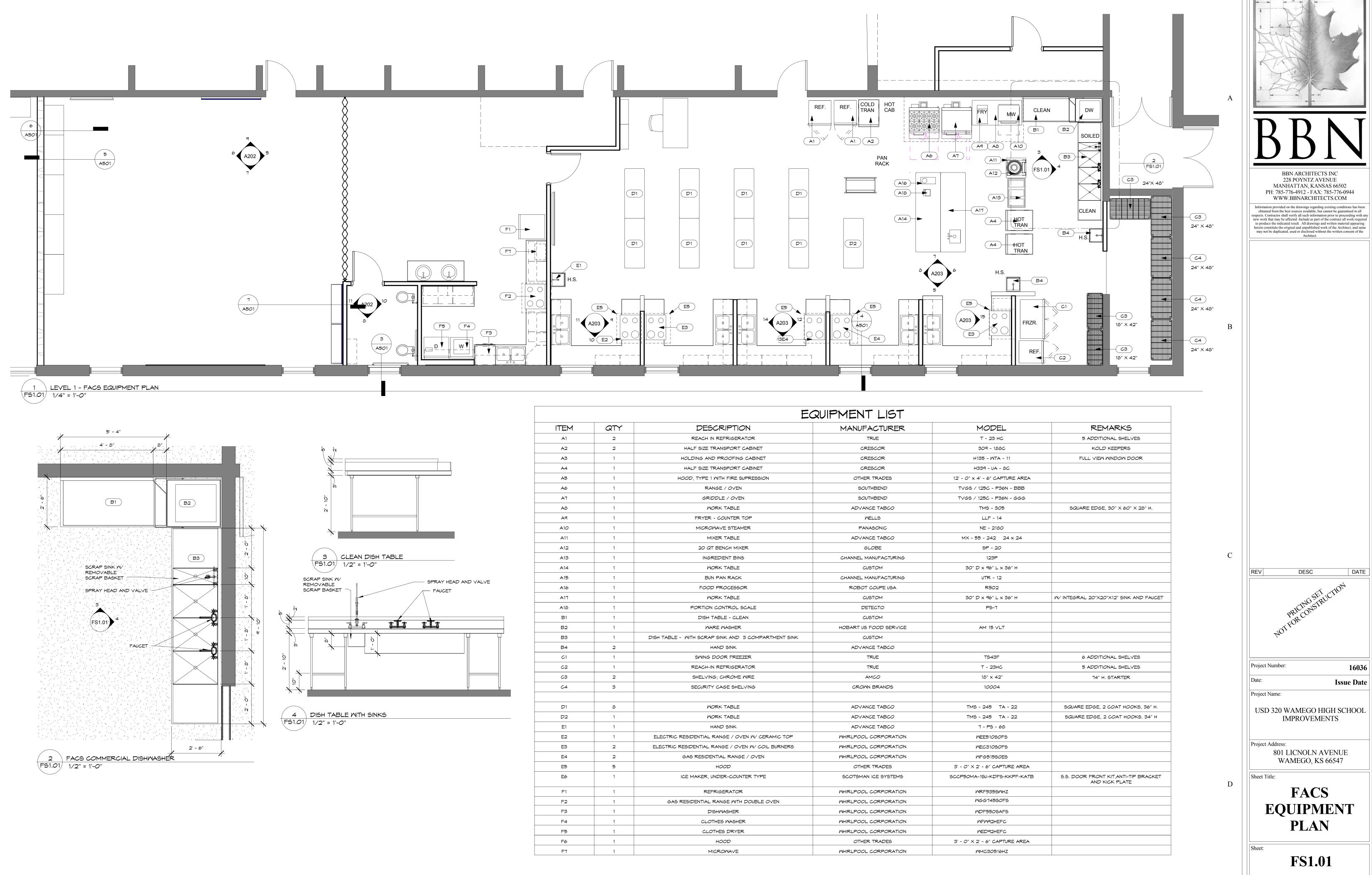
## PLUMBING EQUIPMENT SCHEDULE

Job No	. 15011–1 <b>ING, P.A.</b>	Sheet:
Taco #005-BF, In-line, 4GPM @ 9 ft. nead, 1/35 HP, bronze body, se, 3/4" flanges. Provide bronze companion flanges and aquastat control.		SC
Amtrol ST-5 precharged hydropneumatic steel expansion tank with internal total volume, 0.9 gal. minimum expansion volume, 150 psig maximum Taco #005-BF, in-line, 4GPM @ 9 ft. head, 1/35 HP, bronze body,	D	'   P   D
d to foot traffic. Provide with ProSet Systems trap guard T25630-F. fired high efficiency condensing hot water heater, 130 MBH input, 50 gallor recovery at 90 degree F rise. bb, cast bronze, with rough chrome finish, wheel handle, 3/4" inlet and ho I be furnished complete with no spray back integral vacuum breaker.		Sheet Title:
8" square, 6" deep, cast iron with smooth porcelain acid resisting interior, m outlet, acid resisting nickel brass grate with openings as required for bucket. Omit grate where not required. Use acid resistant porcelain coo		Project Addre
12" square, 8" deep, cast iron with smooth porcelain acid resisting interior m outlet, acid resisting nickel brass grate with openings as required for bucket. Omit grate where not required. Use acid resistant porcelain ubjected to foot traffic. Provide with ProSet Systems trap guard T25630-		USI SCH0
5         5         A           -10         10         B           -20         20         C		Project Name
sconded top. s steel construction with welded nested bellows, precharged with nitrogen, pressure, 300 degree F maximum temperature. nation Wade Catalog No. PDI Rating		Project Numb
ug by countersunk screw. 6000-Z-1 cast iron finished floor cleanout with spigot outlet, flanged ferrule with bronze threaded plug and vandal proof scoriated top.	1	
nd water tight gasket. Field adjustable adapter riser cover and rated for with pumpout port kit PP2. ith brass threaded plug and 8480—R round stainless	_	
otor, rotationally molded polyethylene separator, 75 GPM intermittent flow ro " tapped internal vent connection, 616 lbs of grease capacity, 125 gallons control device on inlet with inlet diffuser, outlet diffuser, composite cover v	of	
rn ZS880—28 4" x 28" stainless steel shower drain with bottom outlet, stainless steel slotted heel—proof grate. Fabricated stainless steel body —Hub center drain, secured leveling frame. Provide with ProSet Systems		REVISION
Provide with ProSet Systems trap guard T25630—F. ooms — Wade 2350—27 cast iron with bottom outlet, 8" square top, square ole sediment bucket. Provide with ProSet Systems trap guard T25630—F.		
d pipe casing, one—piece plunger, 1/8" drain hole. Provide with cast iron , well seal, and EPDM boot cover. Hydrant shall be serviceable through the wing the hydrant. ; — Wade 1100—1 floor drain with clamping collar, adjustable, vandal proof		
connection box, 20 gauge galvanized steel faceplate, 20 gauge using with 1/2" lead free valved cold water supply connection. eezeless roof hydrant, painted cast iron head assembly, integral cast bras	s	
connection box, recessed housing with $1/2$ " valved hot and cold water to as required, and knockout for 2" drain connection. White powder coat	p	
wall. Install valve at 48" AFF, head at 72" AFF. Il mounted drinking fountain with polished chrome—plated brass bubbler he splash, push—button operation, front—accessible cartridge and flow rap.	ad	
mounting heights. 1—SS—MT—I2 pressure balancing valve with integral stops, metal 1 spray shower head with integral 2.5 GPM flow control.	-	
gral service stops, Z7000-12-1.75 institutional fixed spray shower flow control, wall and hand spray unit with 60" of flexible rubber line um breaker, wall spout, 24" slide bar with bracket, and diverter valve er handle. Piping shall be concealed in wall. See Handicapped		
-1/4" cast brass P-trap with cleanout plug. accessible shower: Zurn Z7301-SS-MT-DV2P-HW-VB mixing valve with ADA compliant handle, adjustable stop screw		
Dearborn supplies with stops and escutcheon plate, Dearborn 1-1/2" cas lug. provided by Kitchen Consultant. Provide Zurn ZW3870XLT-4P point of use y valve, Dearborn supplies with stops and escutcheon plate, Dearborn #760		
rass P-trap with cleanout plug. e 302 18-8 nickel bearing stainless steel double compartment self-rimmir ent 14"L x 15-3/4"W x 7"D, fully undercoated, 4 hole, LK-99 basket C4-XL-HS 8" gooseneck with 4" wristblade handles, chrome plated finish,	-	
nd deadened, holes as required for scheduled trim, with JB—99 strainer. Tr ucet with 8" centers, gooseneck swing spout, 1.0 gpm flow control and metal lever handles, Dearborn supplies with stops and escutcheon plate,		
olor: White. Insulate water and waste piping below sink with manufactured exible vinyl insulation with white finish and access to piping, equivalent to ed by Trubro Inc. mming single compartment Type 304 18-8 stainless steel sink, 14"L x 16'	, W	
use anti-scald thermostatic mixing valve, Zurn Z81101-XL-3M 4" centers n flow control, grid drain, indexed single metal handle, Dearborn supplies ate, Dearborn #760W 17 ga. offset tailpiece and 1-1/4" cast brass P-tro lor: White. Insulate water and waste piping below sink with manufactured		
m flow control, grid drain, indexes hot or cold 2-1/2" metal lever handles and escutcheon plate, Dearborn #760W 17 ga. offset tailpiece and 1-1/4 out plug. Fixture color: white. nd vitreous china lavatory, 19" outside diameter, front overflow. Trim with		
us china front overflow lavatory for concealed arms. Trim with Zurn anti-scald thermostatic mixing valve, Zurn Z81101-XL-3M 4" centerset		written material a work of the Archi wi
and escutcheon plate, Dearborn $\#760W$ 17 ga. offset tailpiece and $1-1/4$ out plug. Fixture color: White. Insulate water and waste piping below sink ers consisting of flexible vinyl insulation with white finish and access to av-Guard manufactured by Truebro Inc. Provide carrier with feet anchor		Information prov been obtained fro in all respects proceeding with a contract all work re written material a
us china front overflow lavatory for concealed arms. Trim with Zurn anti-scald thermostatic mixing valve, Zurn Z81101-XL-3M 4" centerset m flow control, grid drain, indexes hot or cold 2-1/2" metal lever handles		WW
AFF. NO SUBSTITUTIONS FOR FLUSH VALVE. , wall hung, washout flushing action, extended rim, 1.0 GPF, 3/4" top er carrier with feet anchor bolted to floor, Sloan Regal 180—1 XL flush ad angle stop. Fixture color: White. Mount with lip at 24" AFF.	_	
wall hung, washout flushing action, extended rim, 1.0 GPF, 3/4" top er carrier with feet anchor bolted to floor, Sloan Regal 180—1 XL flush DA compliant handle and angle stop. Fixture color: White. Mount		K
hildrens water closet, floor mounted, round front, siphon jet flushing actior 10" rim height, open front seat less cover, Sloan Regal 111—XL flush valve 11e stop. Fixture color: White. NO SUBSTITUTIONS FOR FLUSH VALVE.		n
re color: White. NO SUBSTITUTIONS FOR FLUSH VALVE. a, floor mounted, elongated bowl, siphon jet flushing action, 1.6 GPF, rim height, open front seat less cover, Sloan Regal 111—XL flush valve wi and ADA compliant handle. Fixture color: White. NO SUBSTITUTIONS FOR	th A	
omplete installation of fixture. oor mounted, elongated bowl, siphon jet flushing action, 1.6 GPF, 1—1/2" nt, open front seat less cover, Sloan Regal 111—XL flush valve with vacuu		
ericans With Disabilities Act. th Architectural plans and elevations prior to rough—in. with vandal resistant trim.		
cture, trim, mounting dimensions and installation shall meet the		1/ M

N ARCHITECTS INC 8 POYNTZ AVENUE NHATTAN, KS 66502 PH: 785-776-4912 BBNARCHITECTS.COM on the drawings regarding existing conditions has e best sources available, but cannot be guaranteed ntractor shall verify all such information prior to ew work that may be affected. Include as part of the ed to produce the indicated result. All drawings and aring herein constitute the original and unpublished and same may not be duplicated, used or disclosed the written consent of the Architect. © BBN Architects. Inc. 16036 03/16/18 20 WAMEGO HIGH L IMPROVEMENTS INCOLN AVENUE MEGO, KS 66547 **UMBING** ETAILS & HEDULES P103

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		EQUIPMENT LIST		
ITEM	QTY	DESCRIPTION	MANUFACTURER	
A1	2	REACH IN REFRIGERATOR	TRUE	
A2	2	HALF SIZE TRANSPORT CABINET	CRESCOR	
A3	1	HOLDING AND PROOFING CABINET	CRESCOR	
A4	1	HALF SIZE TRANSPORT CABINET	CRESCOR	
A5	1	HOOD, TYPE 1 WITH FIRE SUPRESSION	OTHER TRADES	
A6	1	RANGE / OVEN	SOUTHBEND	
A7	1	GRIDDLE / OVEN	SOUTHBEND	
AB	1	WORK TABLE	ADVANCE TABCO	
A9	1	FRYER - COUNTER TOP	WELLS	
A10	1	MICROWAVE STEAMER	PANASONIC	
A11	1	MIXER TABLE	ADVANCE TABCO	
A12	1	20 QT BENCH MIXER	GLOBE	
A13	1	INGREDIENT BINS	CHANNEL MANUFACTURING	
A14	1	WORK TABLE	CUSTOM	
A15	1	BUN PAN RACK	CHANNEL MANUFACTURING	
A16	1	FOOD PROCESSOR	ROBOT COUPE USA	
A17	1	WORK TABLE	CUSTOM	
A18	1	PORTION CONTROL SCALE	DETECTO	
B1	1	DISH TABLE - CLEAN	CUSTOM	
B2	1	WARE WASHER	HOBART US FOOD SERVICE	
B3	1	DISH TABLE - WITH SCRAP SINK AND 3 COMPARTMENT SINK	CUSTOM	
B4	2	HAND SINK	ADVANCE TABCO	
C1	1	SWING DOOR FREEZER	TRUE	
C2	1	REACH-IN REFRIGERATOR	TRUE	
СЗ	2	SHELVING; CHROME WIRE	АМСО	
C4	З	SECURITY CAGE SHELVING	CROWN BRANDS	
D1	8	WORK TABLE	ADVANCE TABCO	
D2	1	WORK TABLE	ADVANCE TABCO	
E1	1	HAND SINK	ADVANCE TABCO	
E2	1	ELECTRIC RESIDENTIAL RANGE / OVEN W/ CERAMIC TOP	WHIRLPOOL CORPORATION	
E3	2	ELECTRIC RESIDENTIAL RANGE / OVEN W/ COIL BURNERS	WHIRLPOOL CORPORATION	
E4	2	GAS RESIDENTIAL RANGE / OVEN	WHIRLPOOL CORPORATION	
E5	5	HOOD	OTHER TRADES	
E6	1	ICE MAKER, UNDER-COUNTER TYPE	SCOTSMAN ICE SYSTEMS	
F1	1	REFRIGERATOR	WHIRLPOOL CORPORATION	
F2	1	GAS RESIDENTIAL RANGE WITH DOUBLE OVEN	WHIRLPOOL CORPORATION	
F3	1	DISHWASHER	WHIRLPOOL CORPORATION	
F4	1	CLOTHES WASHER	WHIRLPOOL CORPORATION	
F5	1	CLOTHES DRYER	WHIRLPOOL CORPORATION	
F6	1	HOOD	OTHER TRADES	
F7	1	MICROWAVE	WHIRLPOOL CORPORATION	

Of: