

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:

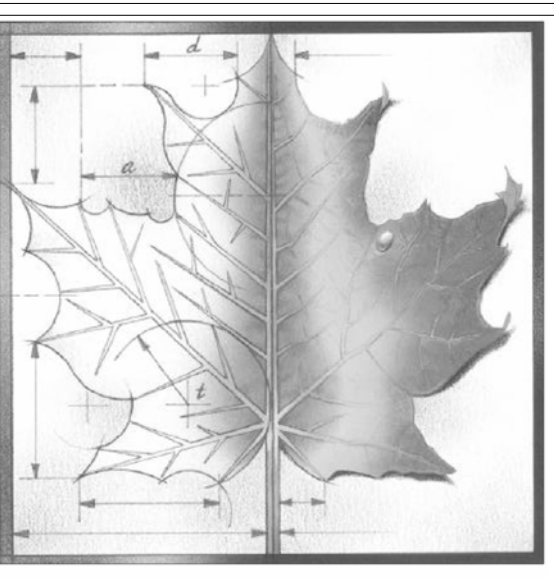
RENOVATION TO EXISTING LOCKER ROOMS IN LOWER GYM, NEW LOCKER ROOMS IN EXISTING WEIGHT ROOM LOCATION, RENOVATION TO FAMILY AND CONSUMER SCIENCE CLASSROOM, ADDITION OF AUTOMATIC VOLLEYBALL NETS IN UPPER GYM, RENOVATION OF PUBLIC RESTROOMS.

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ME002	LOCKER ROOM MEP DEMOLITION PLANS
ME100	MEP ROOF PLAN
M101	FACS ROOM MECHANICAL PLANS
M102	LOCKER ROOM MECHANICAL PLAN
M103	MECHANICAL DETAILS
M104	MECHANICAL DETAILS & SCHEDULES
E101	FACS ROOM ELECTRICAL PLANS
E102	LOCKER ROOM ELECTRICAL PLANS
E103	2ND FLOOR ELECTRICAL PLAN
E104	ELECTRICAL DETAILS & SCHEDULES
P101	FACS ROOM PLUMBING PLANS
P102	LOCKER ROOM PLUMBING PLANS
P103	PLUMBING DETAILS & SCHEDULES
FS1.01	FACS EQUIPMENT PLAN

GENERAL NOTES

- GENERAL NOTES APPLY TO ALL ARCHITECTURAL DRAWINGS & DETAILS.
- ALL WORK SHALL CONFORM WITH APPLICABLE BUILDING CODES, REGULATIONS, AND ORDINANCES. CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS.
- 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.
- THE CONTRACTOR SHALL VERIFY ALL LAYOUT DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH CONSTRUCTION.
- CONTRACTOR SHALL COORDINATE THE WORK WITH THE INSTALLATION OF ALL EQUIPMENT/TRADES SHOWN ON THE PLANS.
- 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.
- WHERE DISCREPANCIES EXIST IN THE DOCUMENTS THE MOST STRINGENT SHALL APPLY.
- PATCH, FINISH AND REPAINT ANY WALLS, FLOOR AND CEILINGS DAMAGED OR REMOVED WHILE INSTALLATION OF NEW WATER PIPING.
- REMOVE AND DISPOSE OF ALL EXISTING FIXTURES, CASEWORK, PARTITIONS, CEILINGS, INSULATION, AND ALL OTHER FINISHES REQUIRED PRIOR TO RENOVATION WORK.



BBN

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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.

PRICING
DRAWINGS

Project Number: **16036**

Date: **3/23/18**

Project Name:

**USD 320- HIGH
SCHOOL
IMPROVEMENTS**

Project Address:

**801 LINCOLN AVENUE,
WAMEGO, KS 66547**

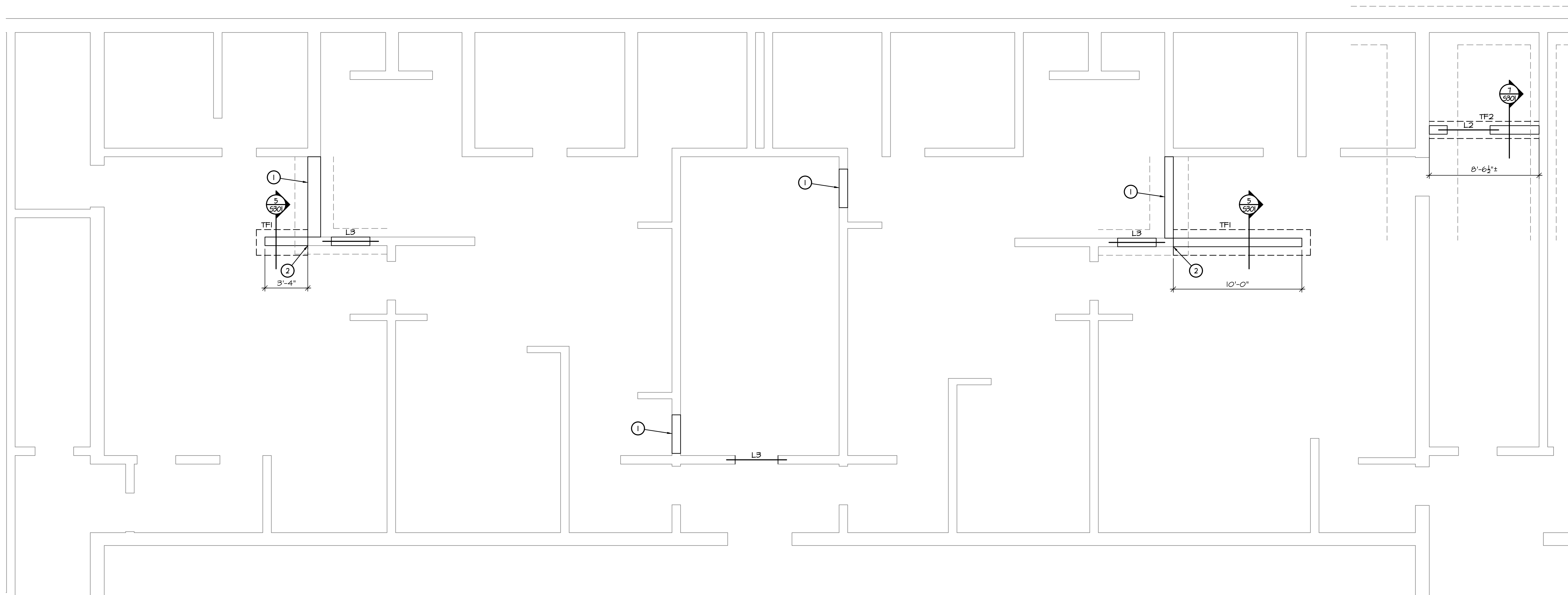
Sheet Title:

COVER SHEET

Sheet:

T101

OF



1
5101 EXISTING P.E. LOCKERS PLAN
1/4" = 1'-0"

PLAN NOTES:

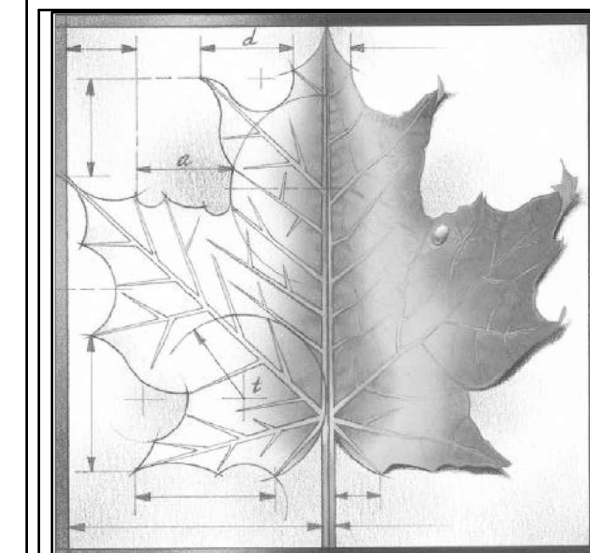
1. See General Structural Notes, Sheet S201, For Additional Notes And Information.
2. Center All Trench Footings Below Masonry Walls, Unless Noted Or Shown Otherwise.
3. See Detail 1-5301 For Typical Slab Joints Detail.
4. See Detail 3-5301 For Typical Foundation Detail At Sleeve Penetrations Through 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:

- 1 See Architectural Drawings For Infill Wall Details And Information.
2 #4x2-8 Horiz. Dowels Vertically Spaced At 12" o.c., Drill And Adhere 8" Into Existing Foundation.



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2301 Laura + Suite 200 Wichita, KS 67218-1514
316-263-7974 or www.dwa.com
17045.02 5101 in 1/17-04/17-04/04/5100 3/23/2018 [NE] [140]

PROGRESS PRINT
NOT FOR CONSTRUCTION
DATE: 03-23-18

REV	DESCRIPTION	DATE
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PRICING SET
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Project Number: **Project Number**

Date: **Issue Date**

Project Name:

USD 320 WAMEGO HIGH SCHOOL IMPROVEMENTS

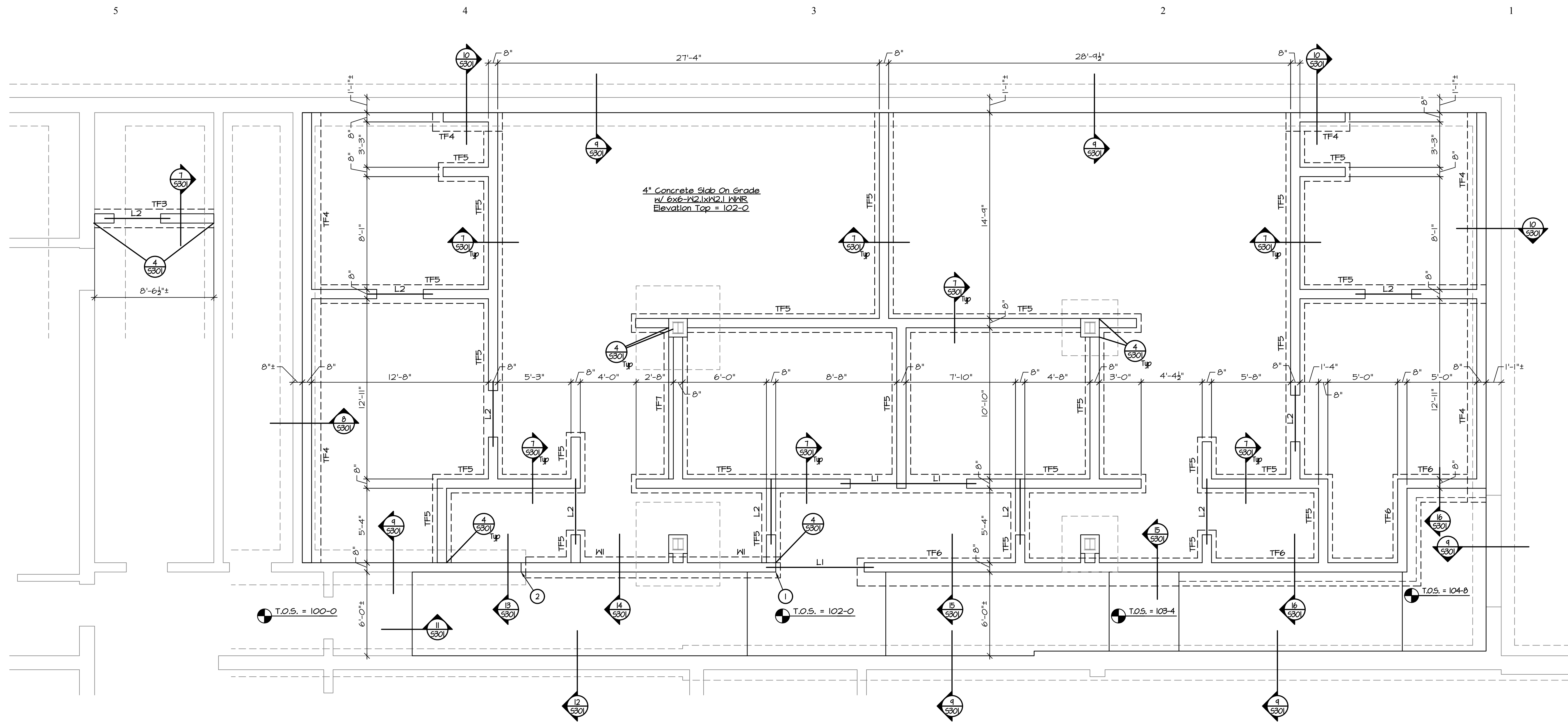
Project Address:
**801 LINCOLN AVENUE
WAMEGO, KS 66547**

Sheet Title:

**EXISTING
LOCKER ROOM
PLAN**

Sheet:
S101

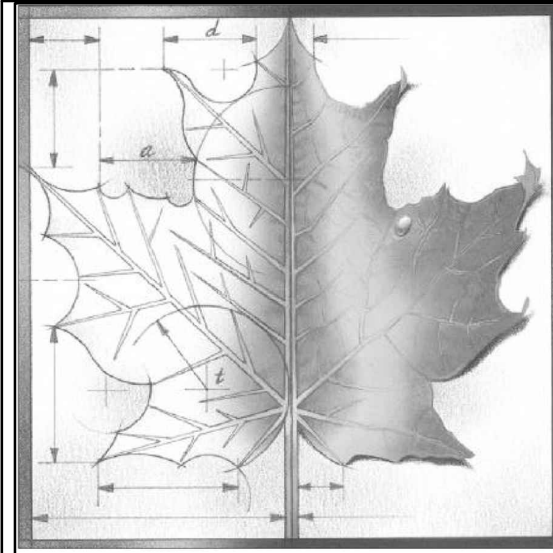
OF



1
S102
NEW LOCKERS PLAN
1/4" = 1'-0"

- PLAN NOTES:**
1. 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 1-S301 For Typical Slab Joints Detail.
 4. See Detail 3-S301 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-S301 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:**
- ① Formed Foundation Wall Stops.
 - ② #4x2-8 Horiz. Dowels Vertically Spaced At 12" o.c.. Drill And Adhere 8" Into Existing Foundation.



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7045.02 S102 in 1/17-045/17-045/04/S100 3/23/2018 [NE] [148]

PROGRESS PRINT
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REV	DESCRIPTION	DATE
PRICING SET NOT FOR CONSTRUCTION		

Project Number: **Project Number**
Date: **Issue Date**
Project Name: **USD 320 WAMEGO HIGH SCHOOL IMPROVEMENTS**
Project Address: **801 LINCOLN AVENUE WAMEGO, KS 66547**

Sheet Title: **NEW LOCKER ROOM PLAN**

Sheet: **S102**
OF

5

4

3

2

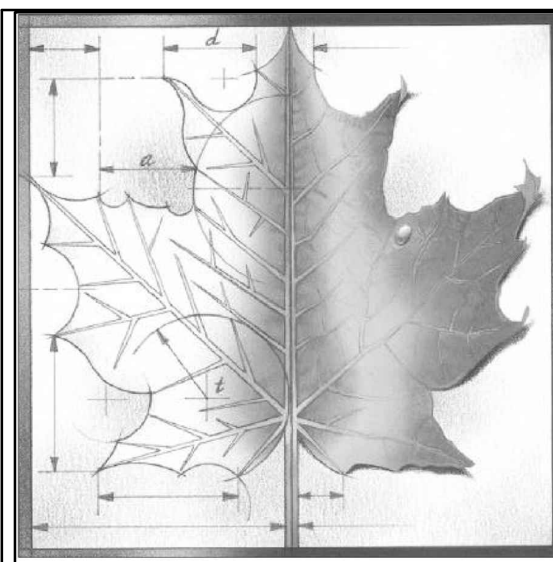
1



1
S103
FACS FLOOR PLAN
1/4" = 1'-0"

- PLAN NOTES:**
1. 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 1-S301 For Typical Slab Joints Detail.
 4. See Detail 3-S301 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-S301 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



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17045.02 S103 in 1/17-045/17-045.04/S100 3/23/2018 [NE] [140]

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Date: **Issue Date**

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USD 320 WAMEGO HIGH SCHOOL IMPROVEMENTS

Project Address:
**801 LINCOLN AVENUE
WAMEGO, KS 66547**

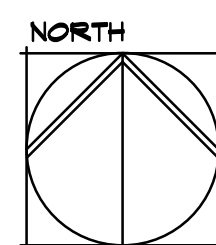
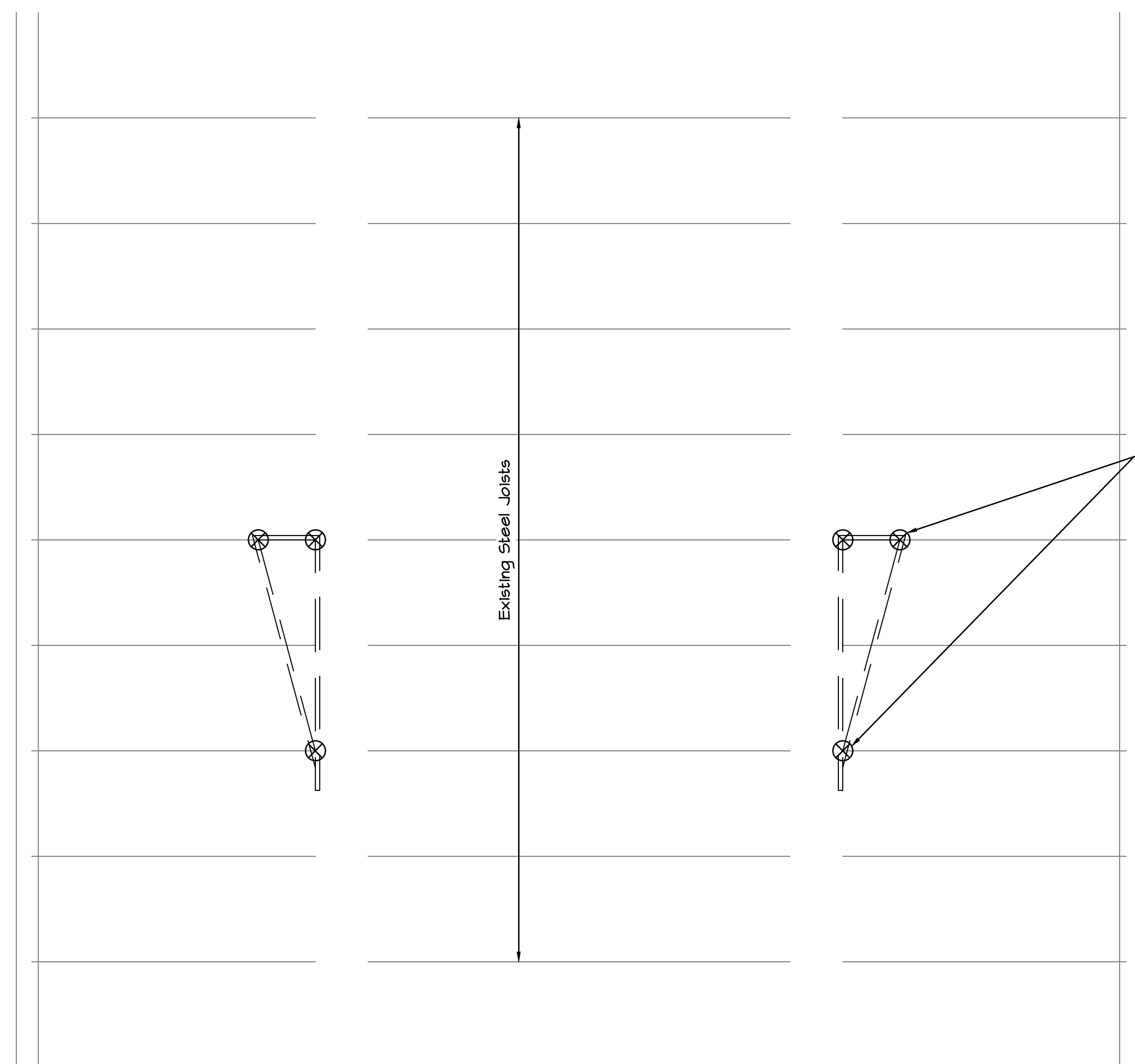
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FACS FLOOR PLAN

Sheet:

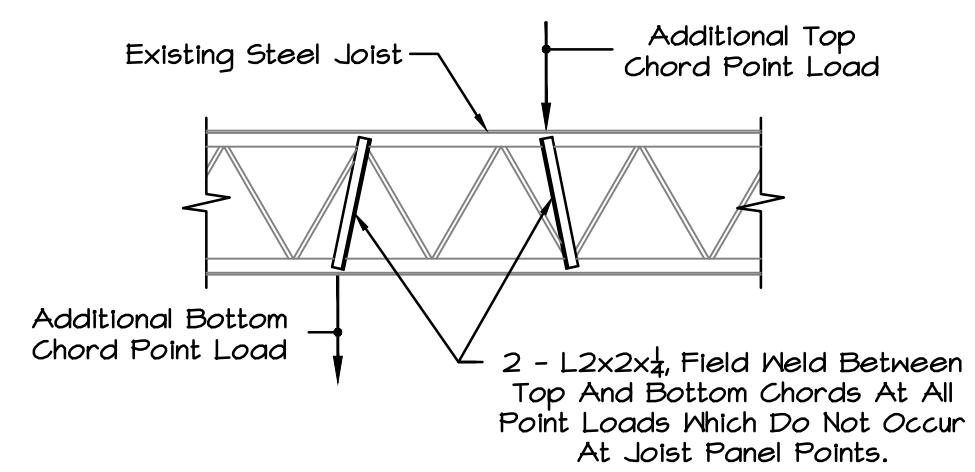
S103

OF



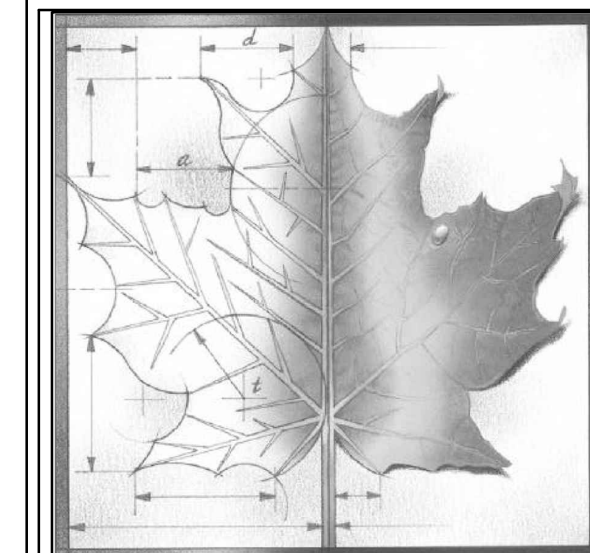
ROOF FRAMING PLAN

1/8" = 1'-0"



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

1 JOIST DETAIL @ POINT LOAD
No Scale



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17045.02 S104 in 15/17-045/17-045.04/S104 3/23/2018 [NE] [124]

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REV	DESCRIPTION	DATE
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PRICING SET
NOT FOR CONSTRUCTION

Project Number: **Project Number**

Date: **Issue Date**

Project Name:

USD 320 WAMEGO HIGH SCHOOL IMPROVEMENTS

Project Address:
**801 LINCOLN AVENUE
WAMEGO, KS 66547**

Sheet Title:

Upper Gym Framing Details

Sheet: **S104**

OF

GENERAL STRUCTURAL NOTES

General Contractor shall review and stamp all the shop drawings before submitting for review. 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 drawings.

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)

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 the inspection requirements. Testing and inspection reports shall be furnished to the Building Official, the Architect, and the Structural Engineer.

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.

CAST-IN-PLACE CONCRETE

All concrete shall have the following minimum compressive strengths at 28-days. Footings: 3000 psi Interior Floor Slabs: 3500 psi All aggregate for normal weight concrete shall meet ASTM C33. Aggregates shall be proportioned such that mix design shall contain a minimum of 50% coarse aggregates by gradation requirements set forth in ASTM C33.

REINFORCING STEEL

All welded wire reinforcement (WWR) shall meet ASTM A1064. Lap splice all welded wire reinforcement the cross wire spacing plus 2 inches. Furnish all welded wire reinforcement in flat sheets. All reinforcing steel shall have adequate coverage as indicated in ACI 318 for the given exposure.

CONCRETE MASONRY

All concrete masonry units (CMU) shall be made of lightweight concrete aggregate (UNO), and shall meet ASTM C-90. All 8" concrete masonry units shall have a minimum compressive strength of 1400 psi on the net area at 28-days and a net area compressive strength of masonry of 1500 psi.

WALL FOOTING AND FOUNDATION SCHEDULE

Table with columns: MARK, TYPE, ELEV. TOP, WIDTH, DEPTH, ELEV. TOP, ELEV. LEDGE, DIMENSIONS (T, A), REF. SECTION, REMARKS. Includes rows for Footing and Foundation Wall Types.

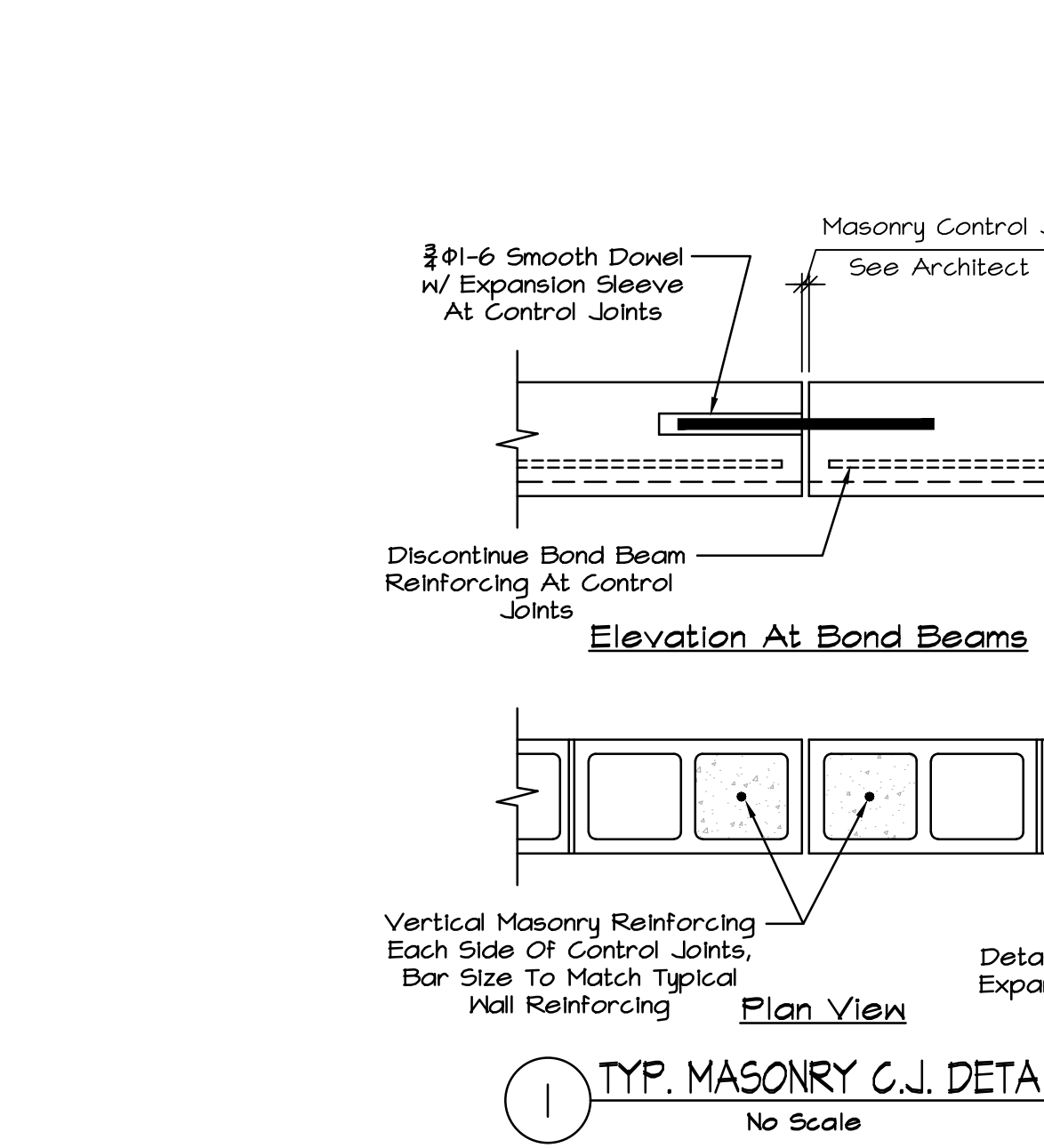
STRUCTURAL STEEL

Steel shall meet the latest AISC "Specification for Structural Steel Buildings." Steel framing members shall only be spliced at locations shown on the design drawings or as shown on and approved on the shop drawings.

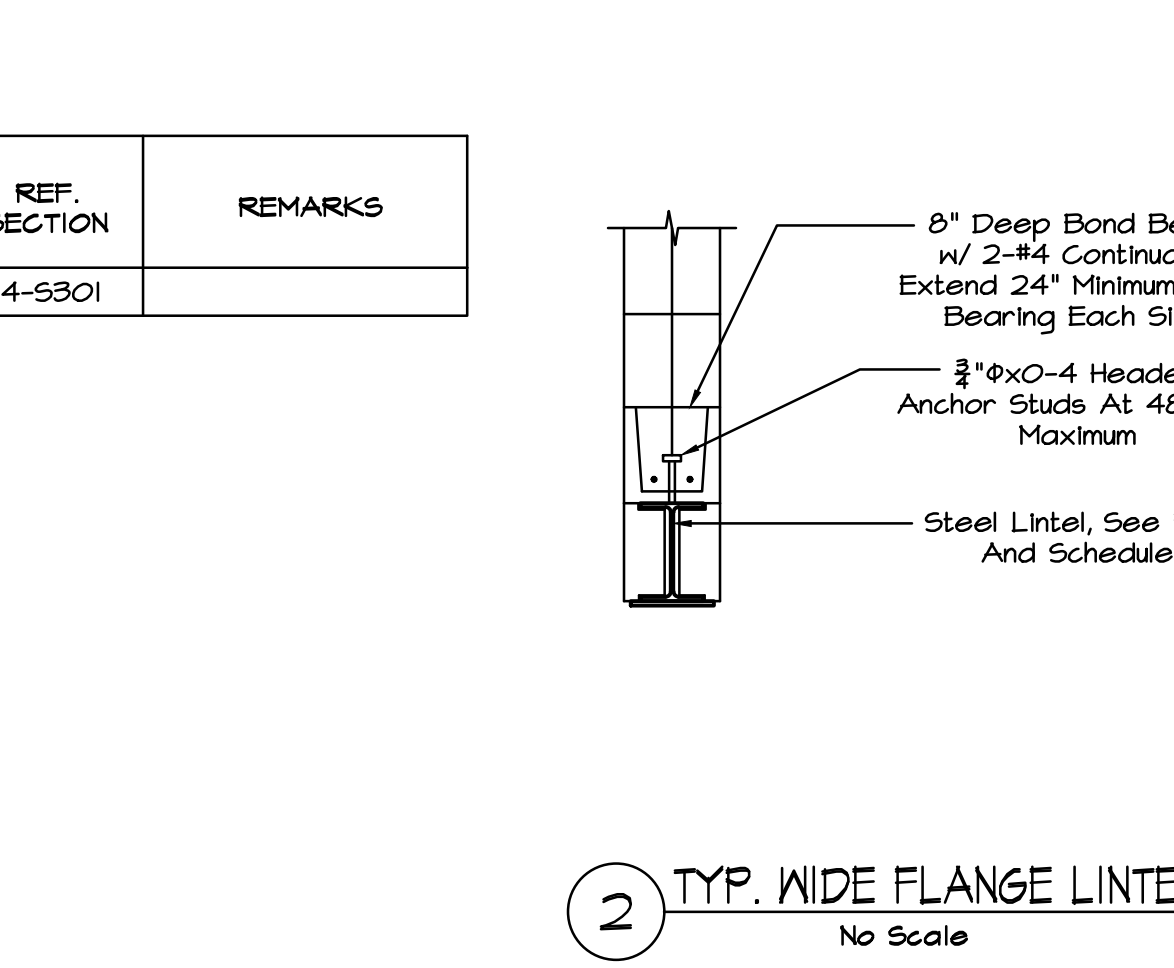
POST-INSTALLED ANCHORS

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.

TYP. MASONRY C.J. DETAILS



TYP. WIDE FLANGE LINTELS

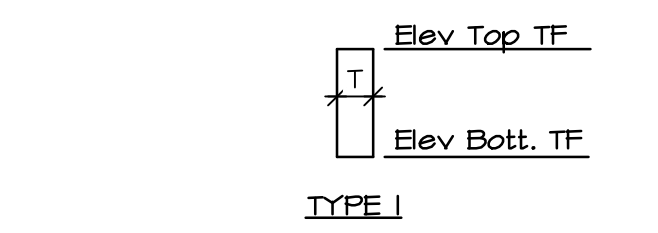


TRENCH FOOTING SCHEDULE

Table with columns: MARK, TYPE, ELEV. BOT, ELEV. TOP, ELEV. LEDGE, DIMENSIONS (T, A), REF. SECTION, REMARKS. Lists trench footing details for TF1 through TF7.

TRENCH FOOTING SCHEDULE REMARKS:

1 Bottom of Footing to Align w/ Existing Adjacent Bottom of Footing.



TRENCH FOOTING TYPES

LINTEL SCHEDULE

Table with columns: MARK, MEMBERS, TYPE, REMARKS. Lists lintel details for L1 through L4.

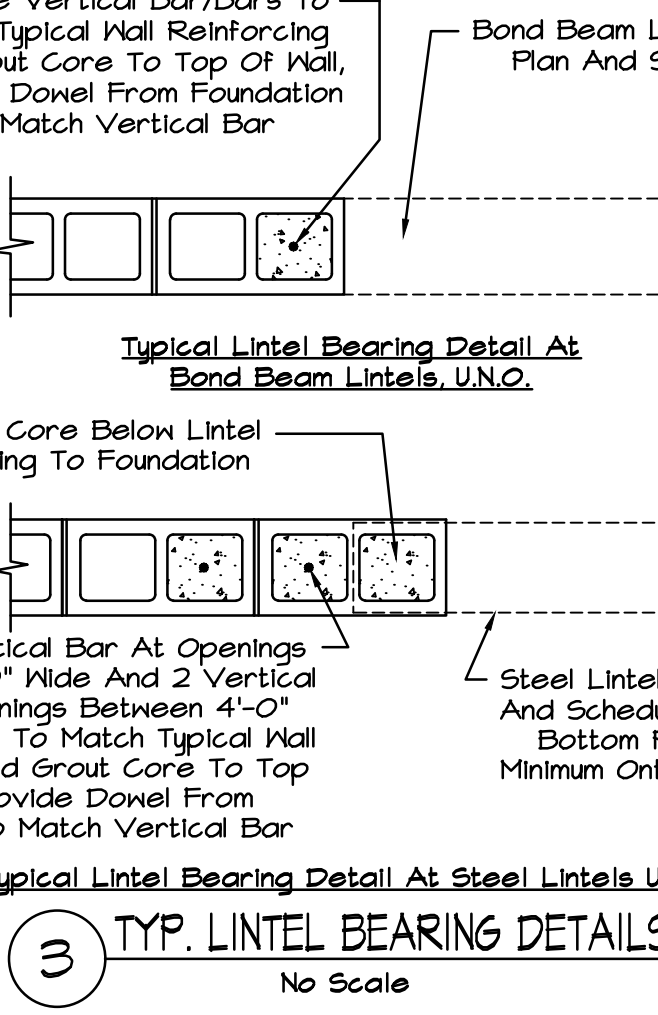
LINTEL SCHEDULE REMARKS:

1 Remove existing masonry as required to install new lintel. Rebuild Jamb with new masonry and grout cores solid below bearing. 2 Galvanize assembly.

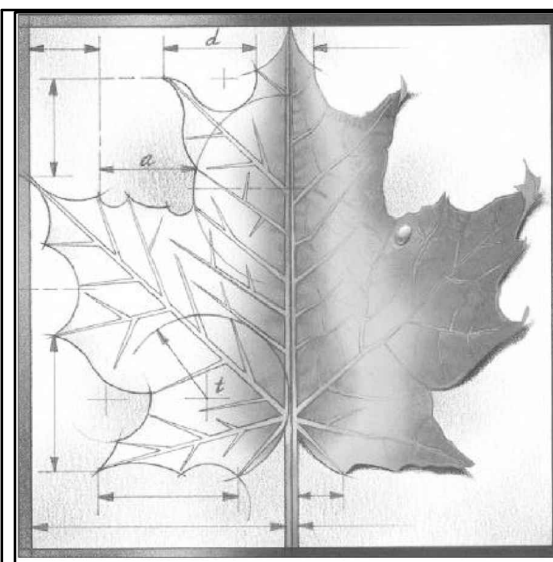
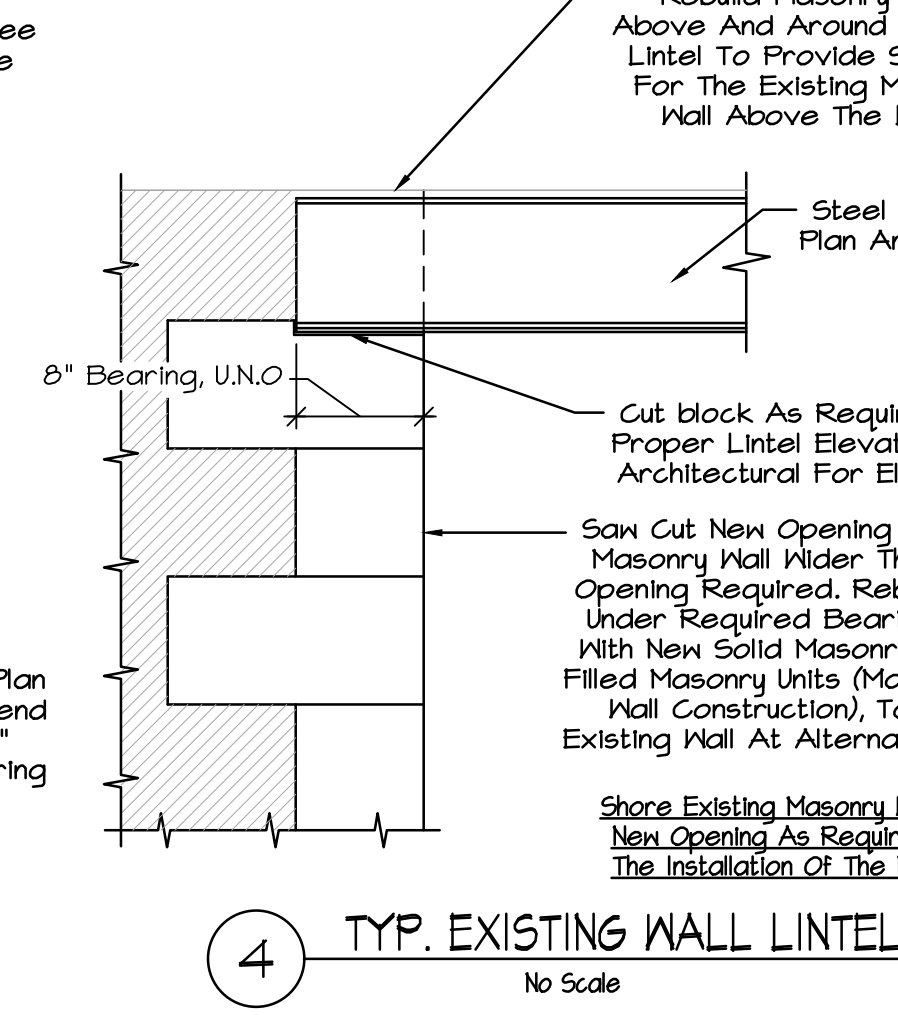
LINTEL SCHEDULE NOTES:

- 1. 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" Bearing. 2. Provide Lintel L2 At Architectural, Mechanical, And Electrical Openings In 8" Interior Masonry Block, Non-Bearing Walls With A Maximum Opening Width Of 3'-4", U.N.O.

TYP. LINTEL BEARING DETAILS

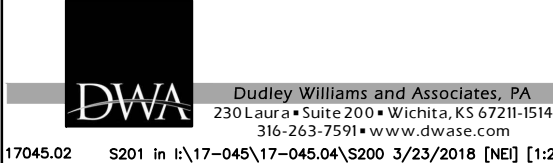


TYP. EXISTING WALL LINTEL



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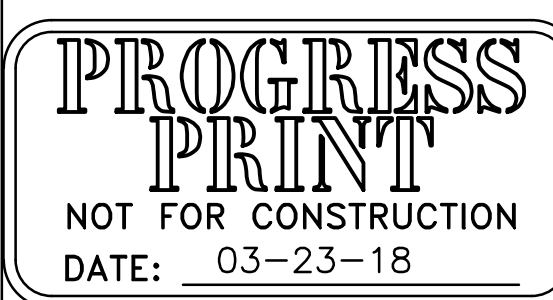


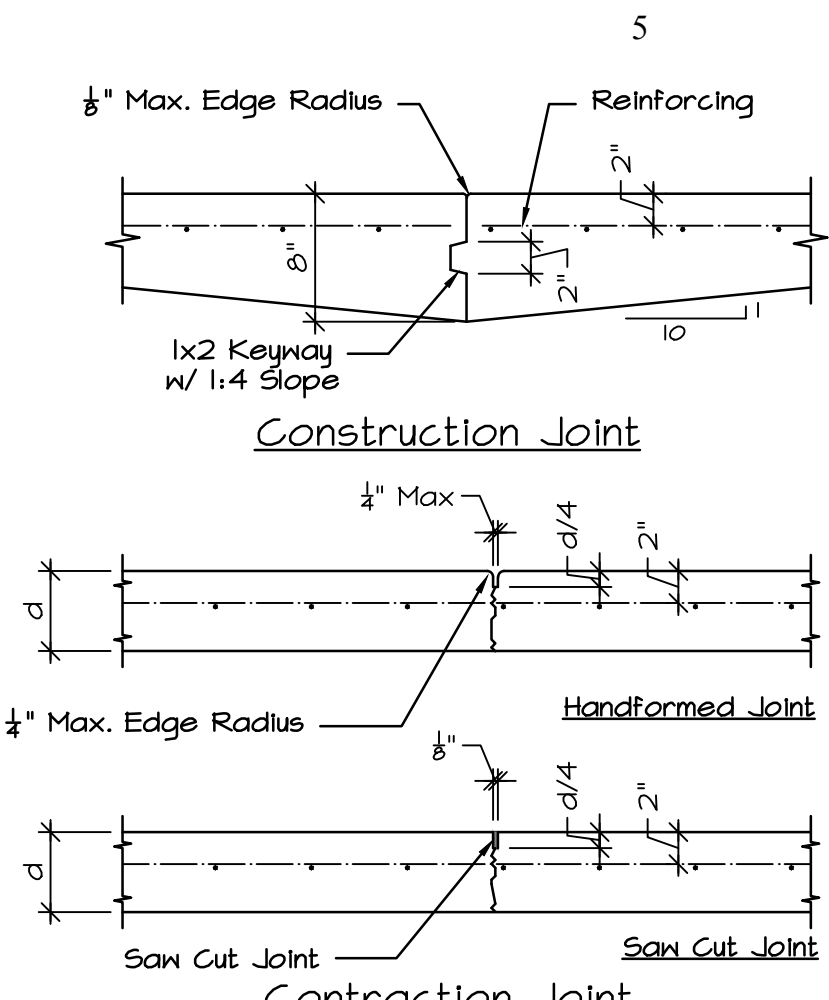
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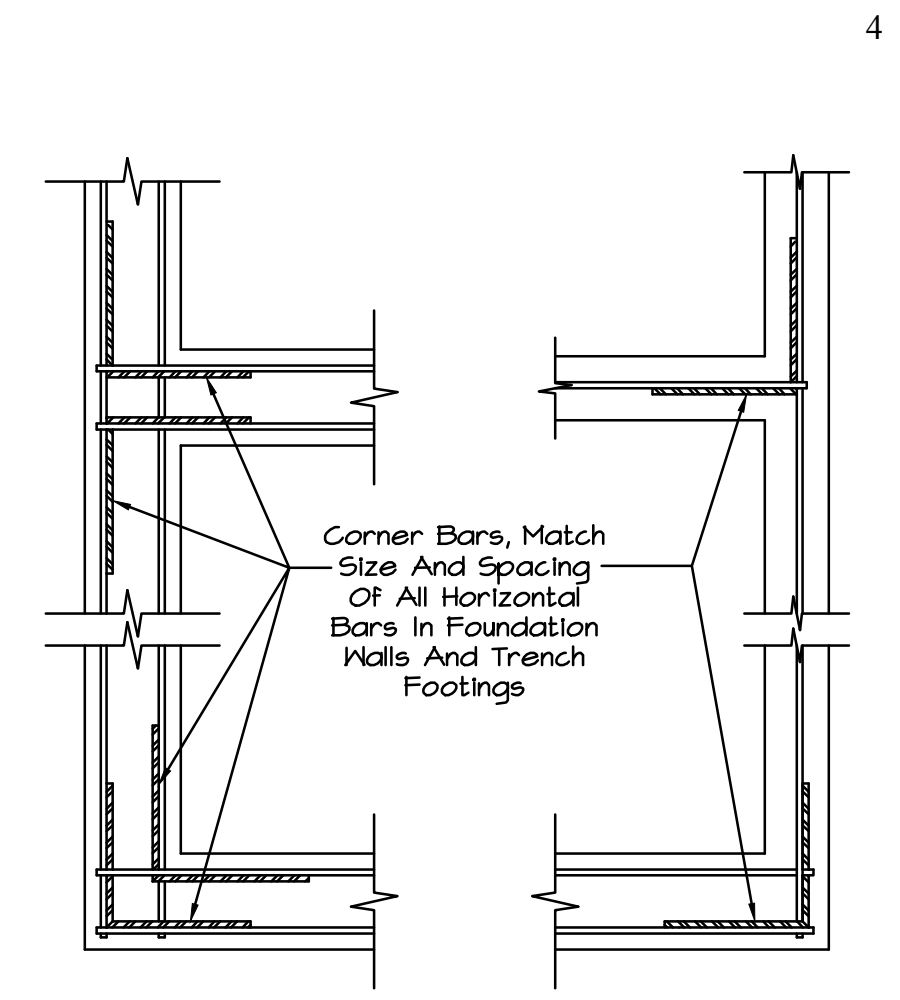
Project Number: Issue Date: Project Name: Issue Date: Project Address: 801 LINCOLN AVENUE WAMEGO, KS 66547

STRUCTURAL NOTES AND SCHEDULES

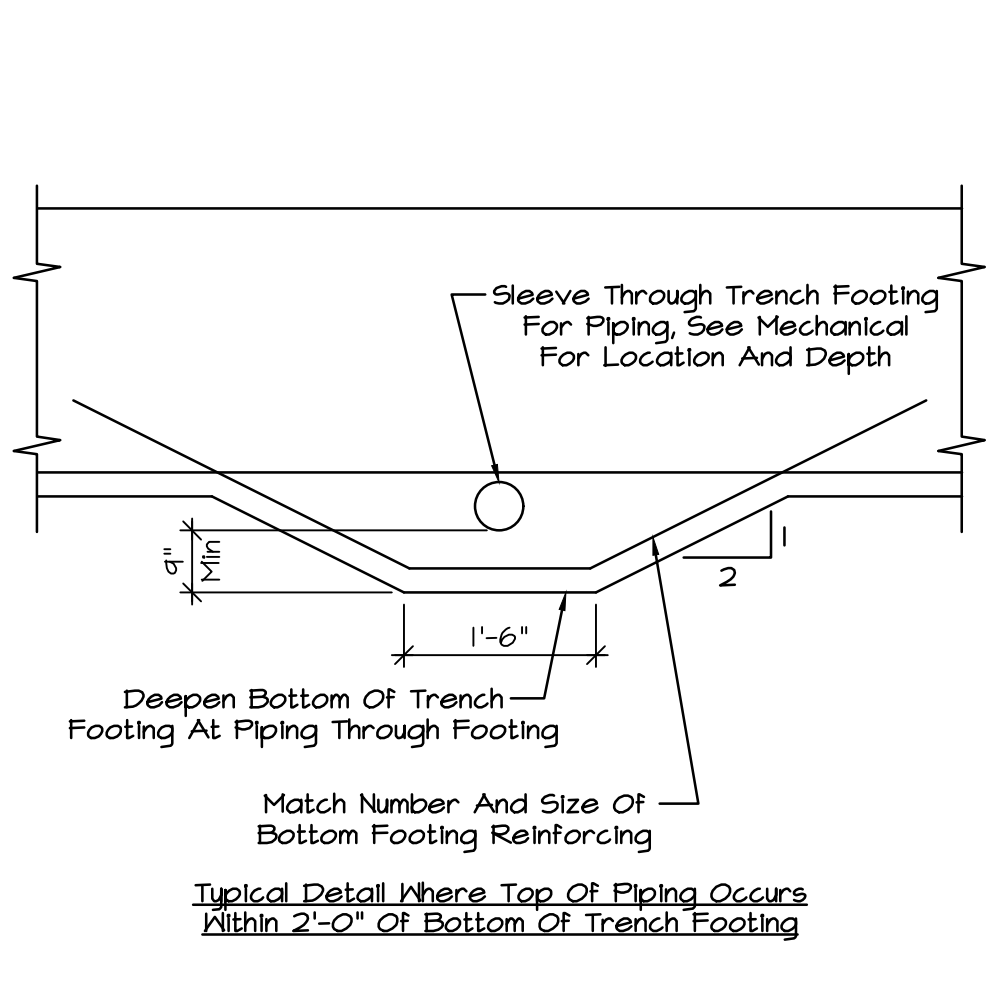
Sheet: S201 OF



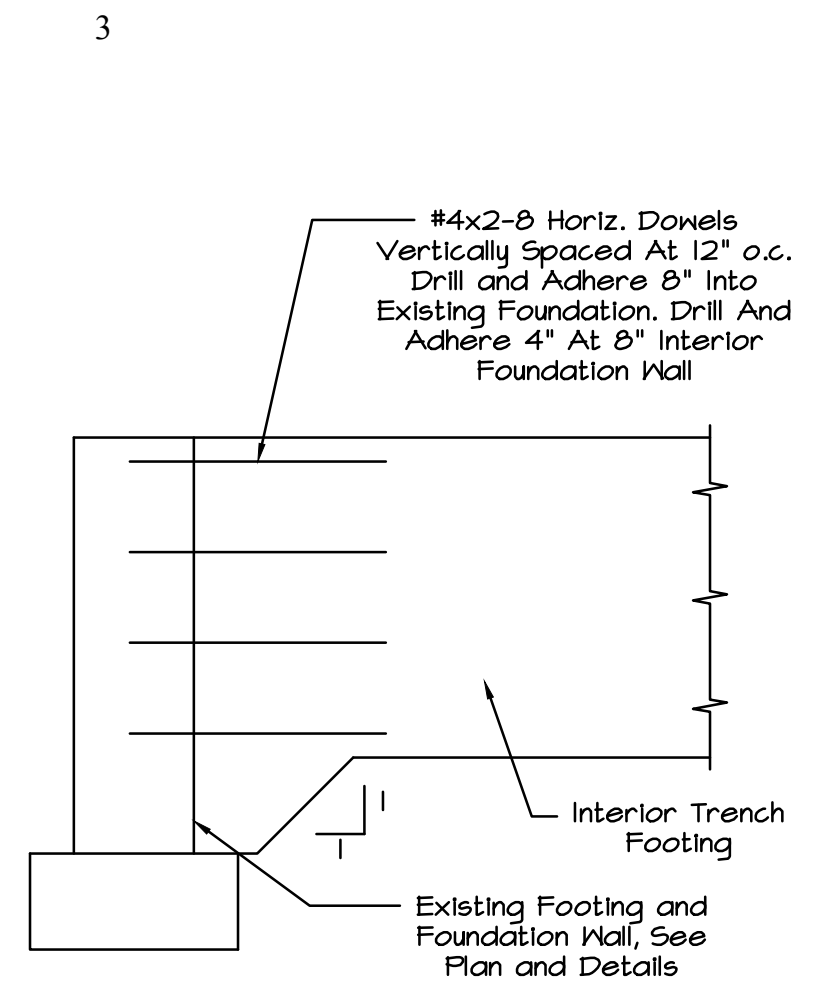
1 TYPICAL SLAB JOINT DETAILS
No Scale



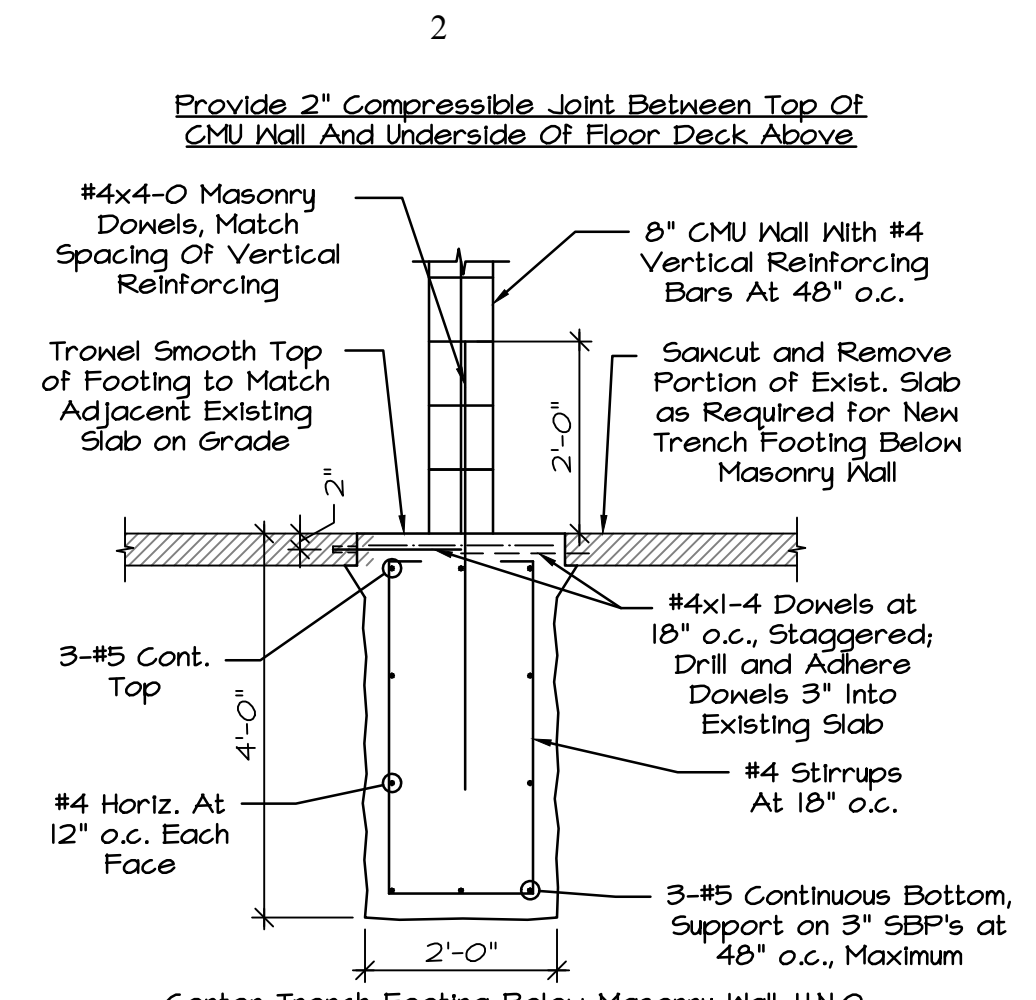
2 CORNER BAR DETAIL
No Scale



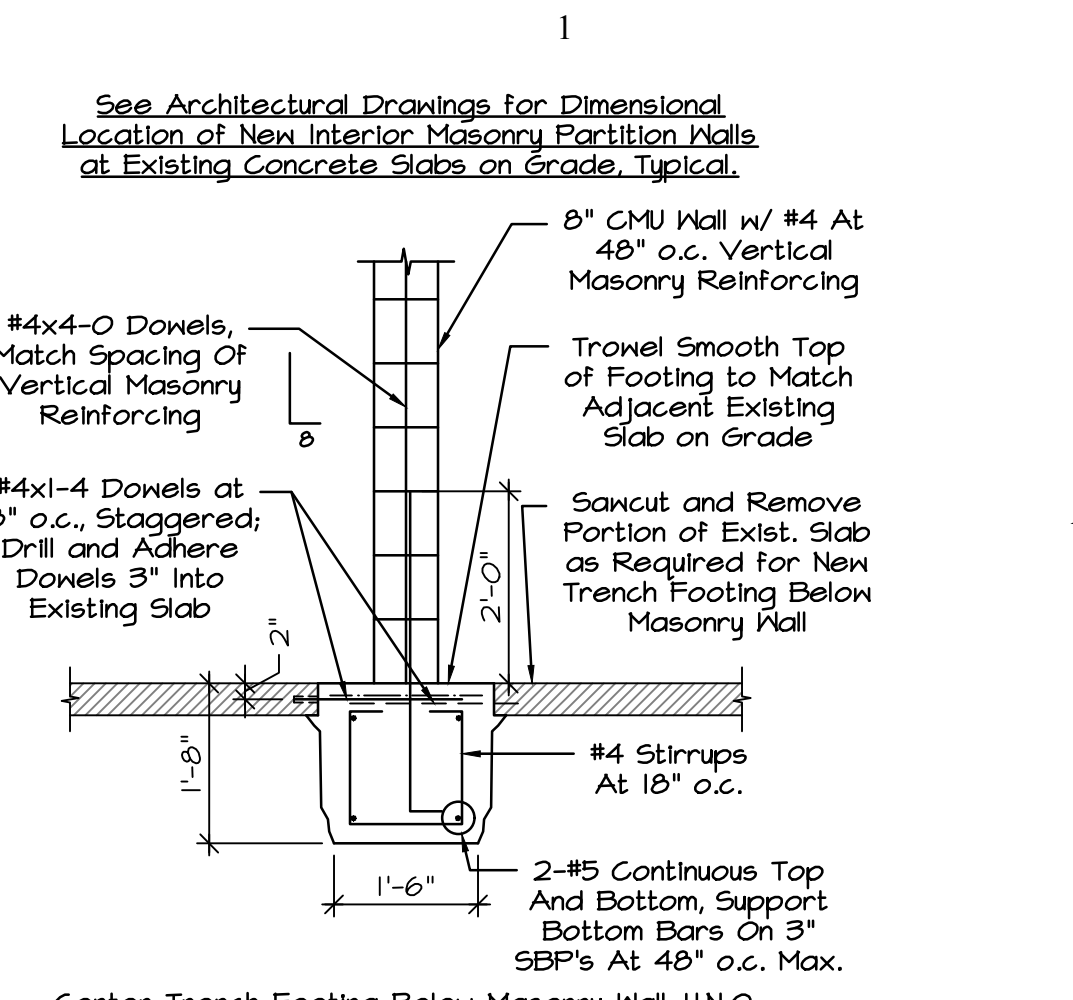
3 TYP. FOUNDATION DETAIL
1/2" = 1'-0"



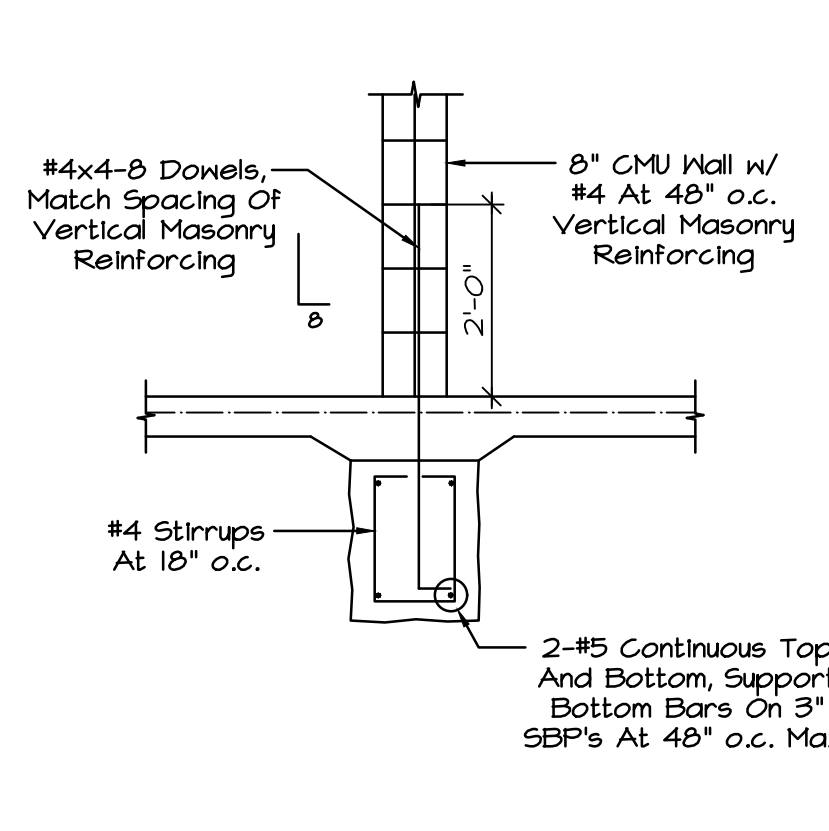
4 TYP. FOOTING DETAIL
No Scale



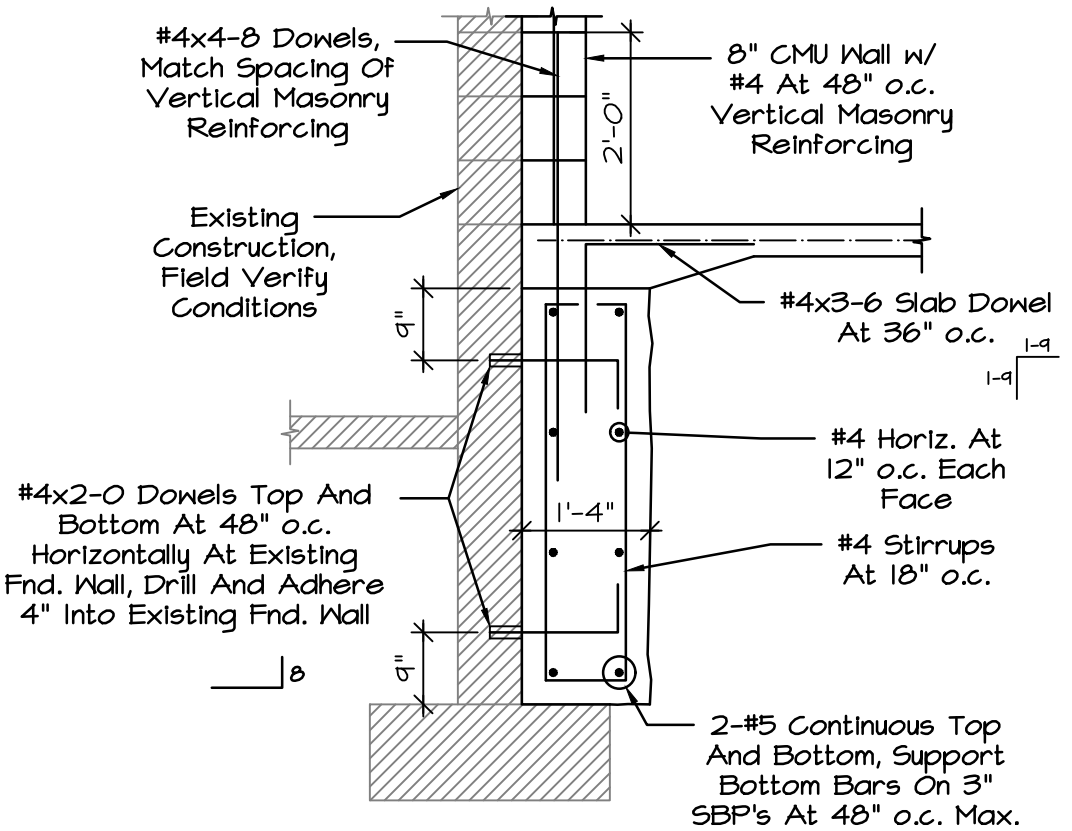
5 SECTION
1/2" = 1'-0"



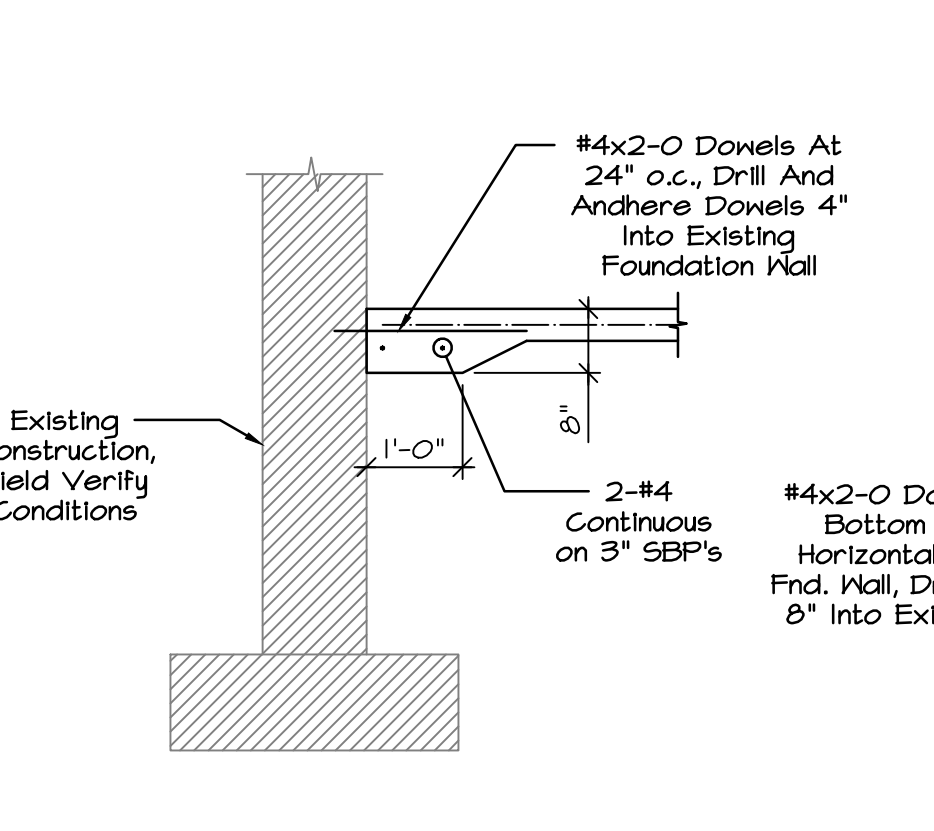
6 SECTION
1/2" = 1'-0"



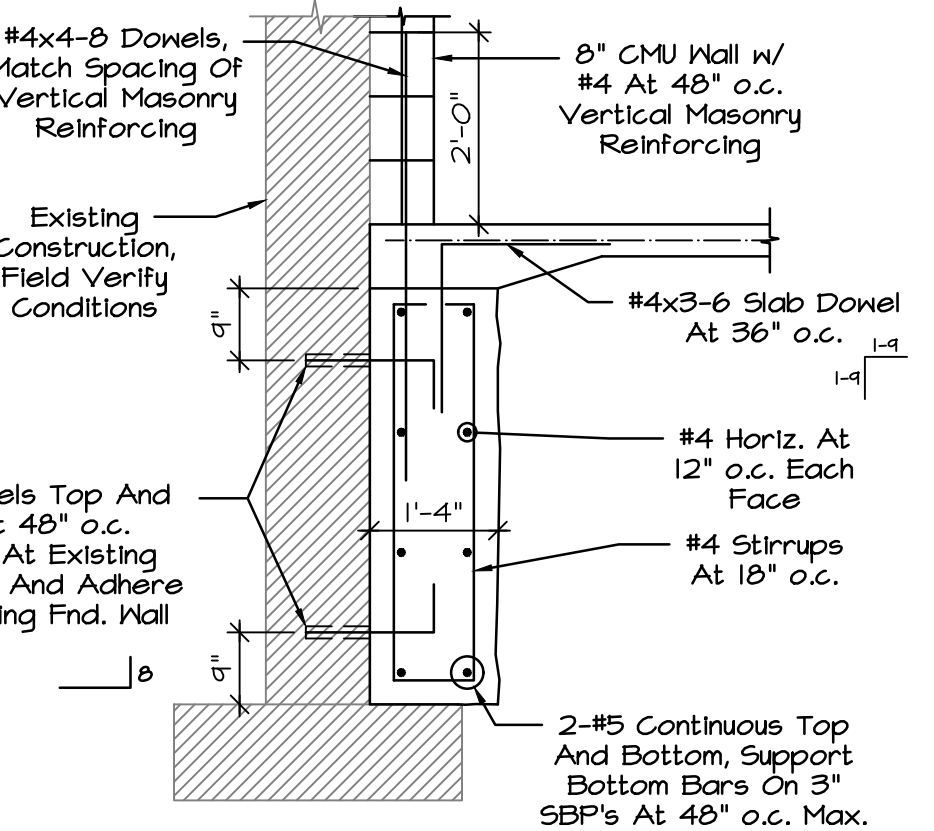
7 SECTION
1/2" = 1'-0"



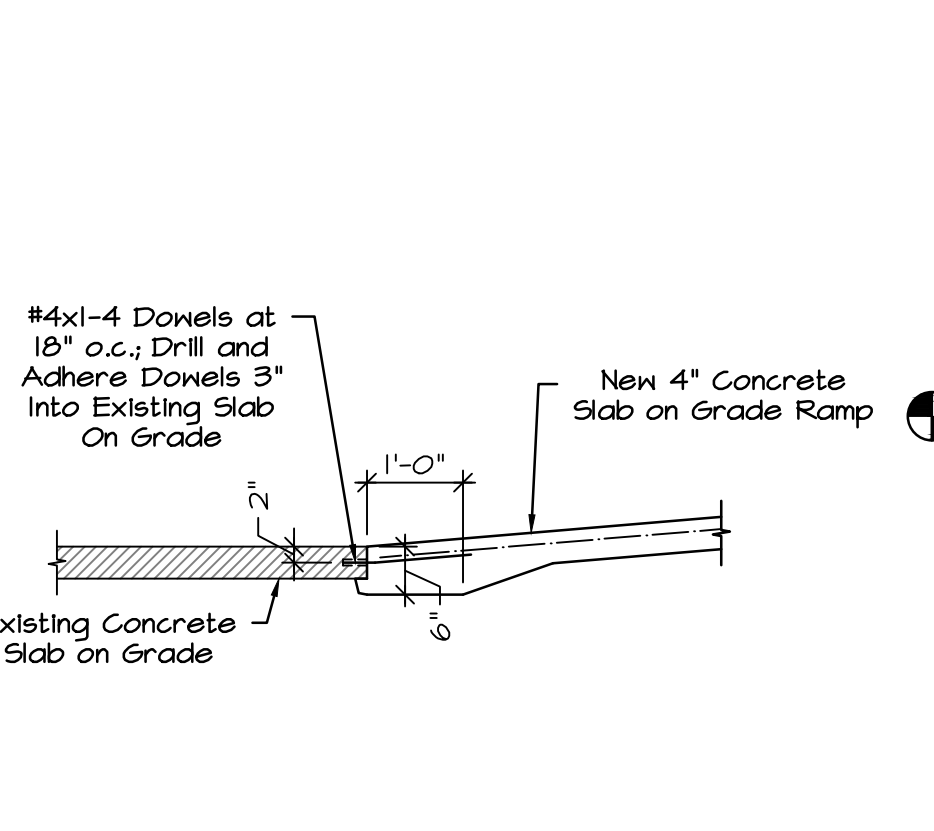
8 SECTION
1/2" = 1'-0"



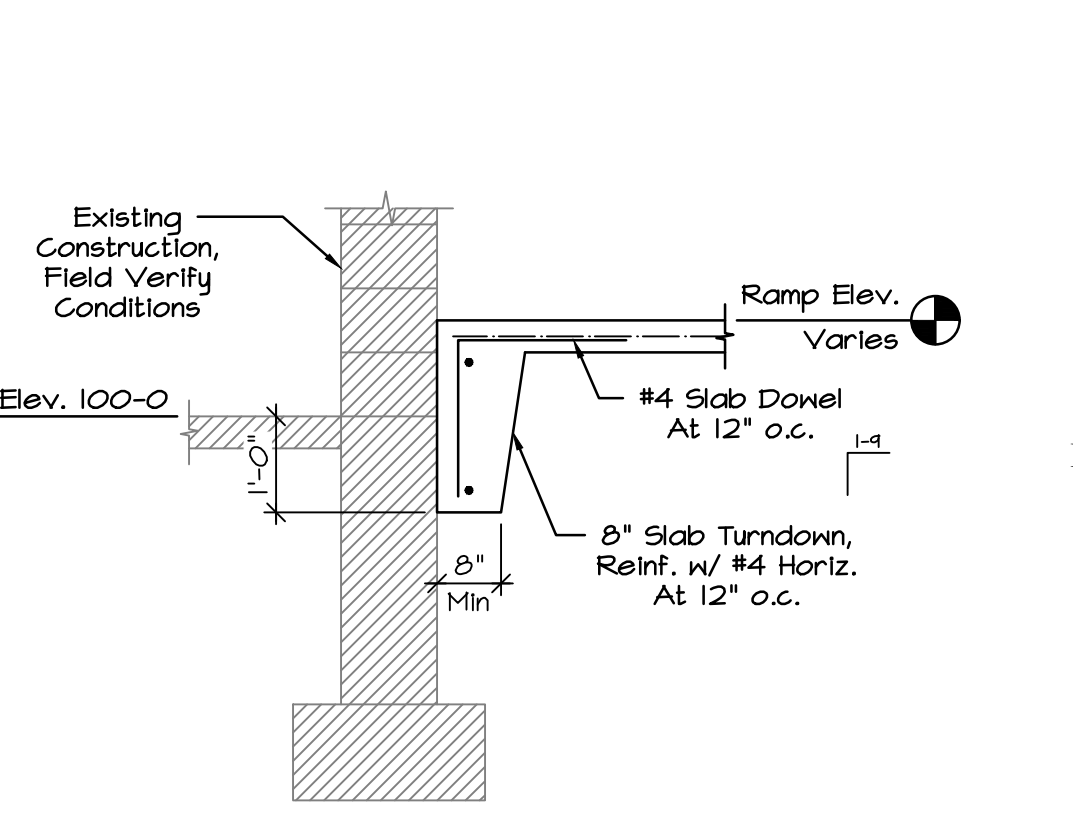
9 SECTION
1/2" = 1'-0"



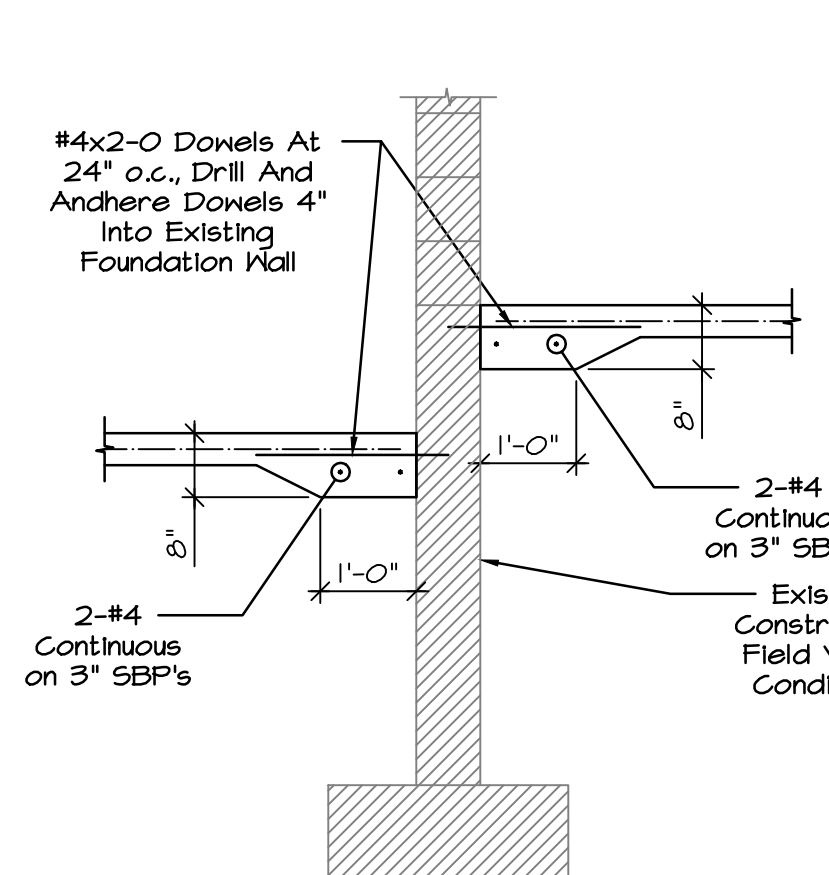
10 SECTION
1/2" = 1'-0"



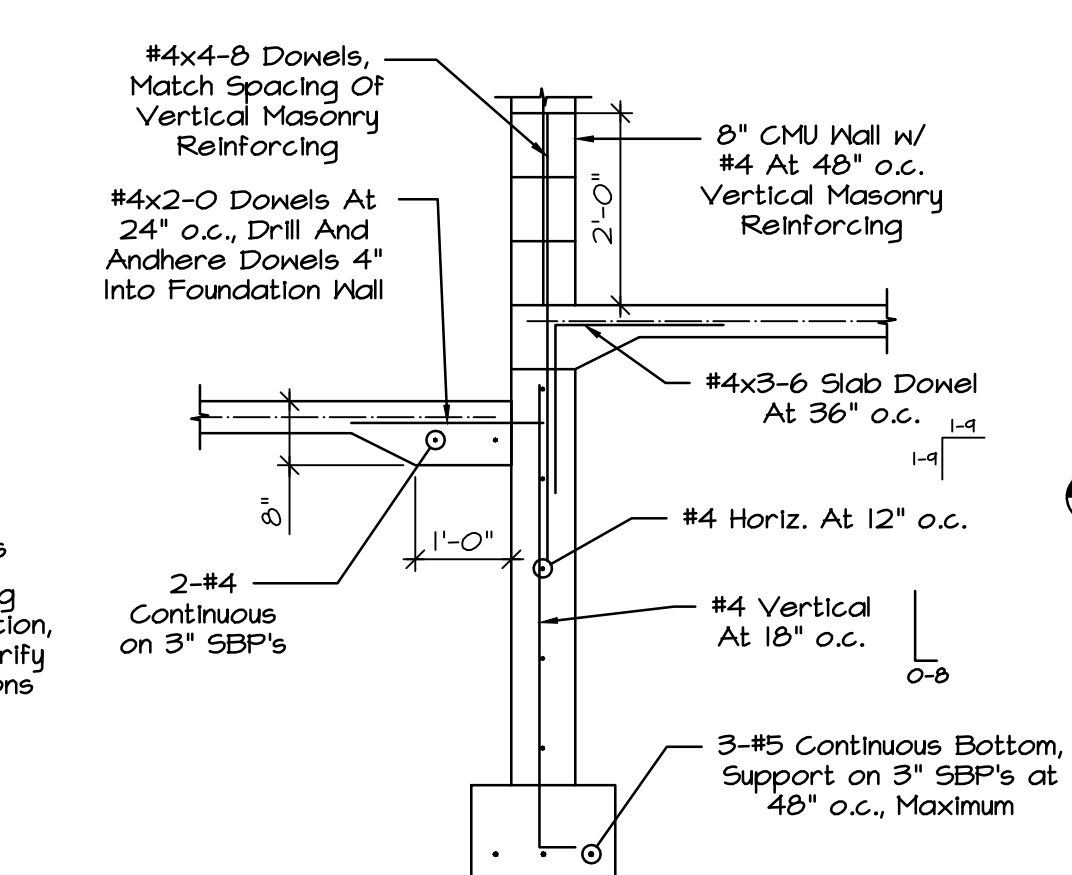
11 SECTION
1/2" = 1'-0"



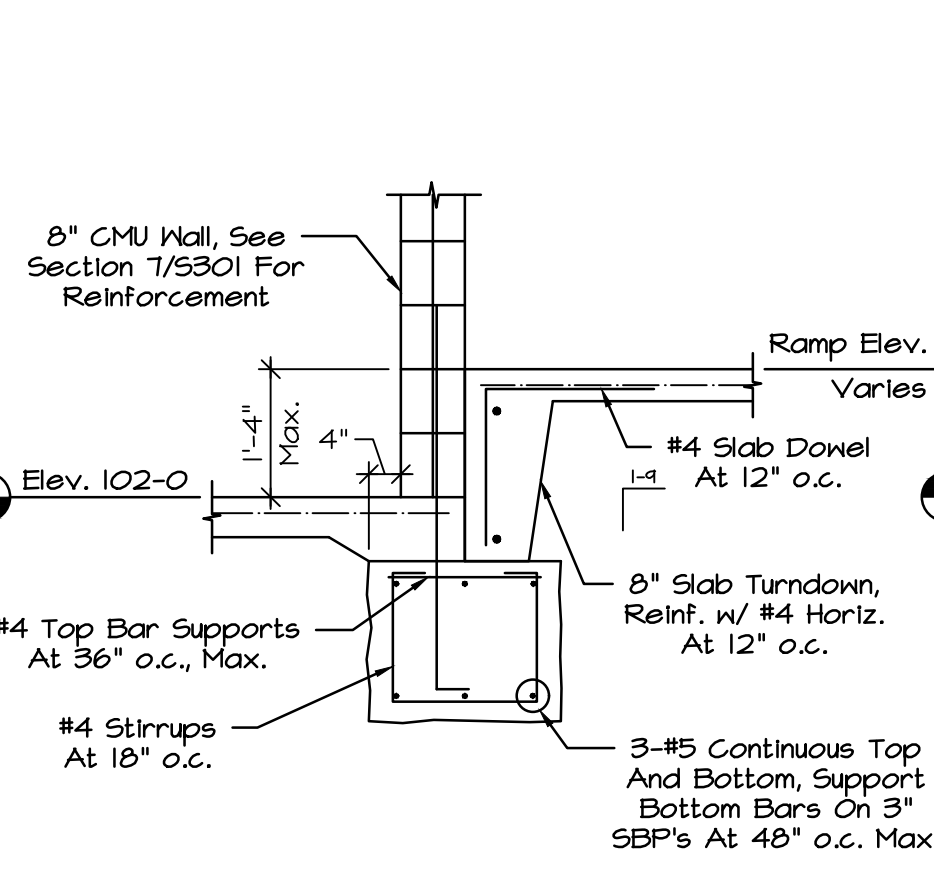
12 SECTION
1/2" = 1'-0"



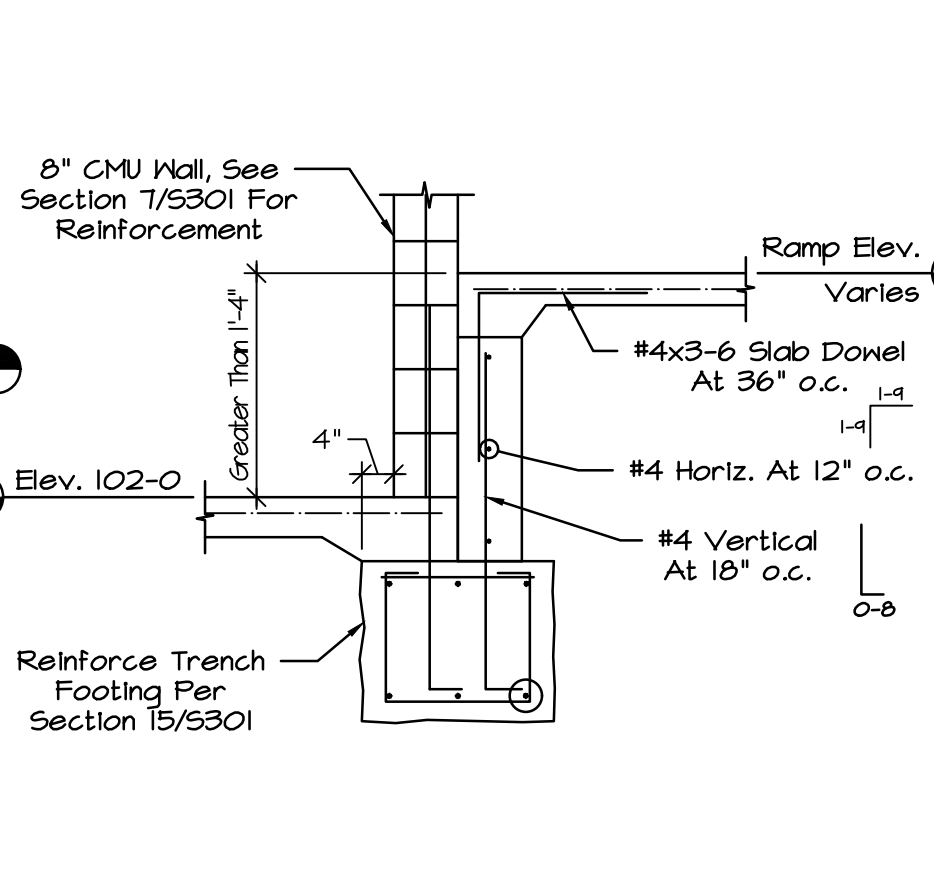
13 SECTION
1/2" = 1'-0"



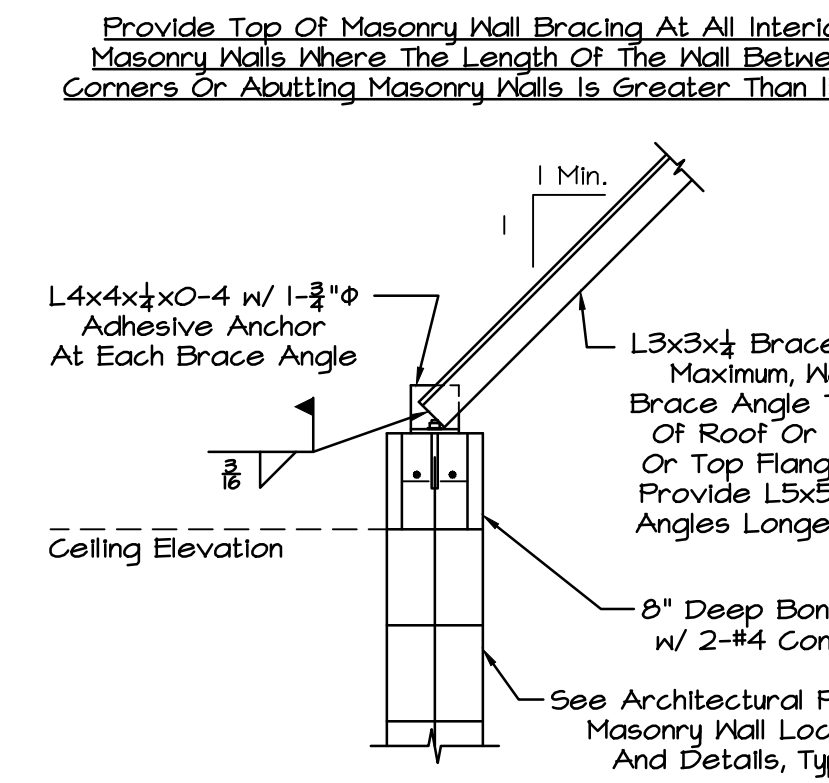
14 SECTION
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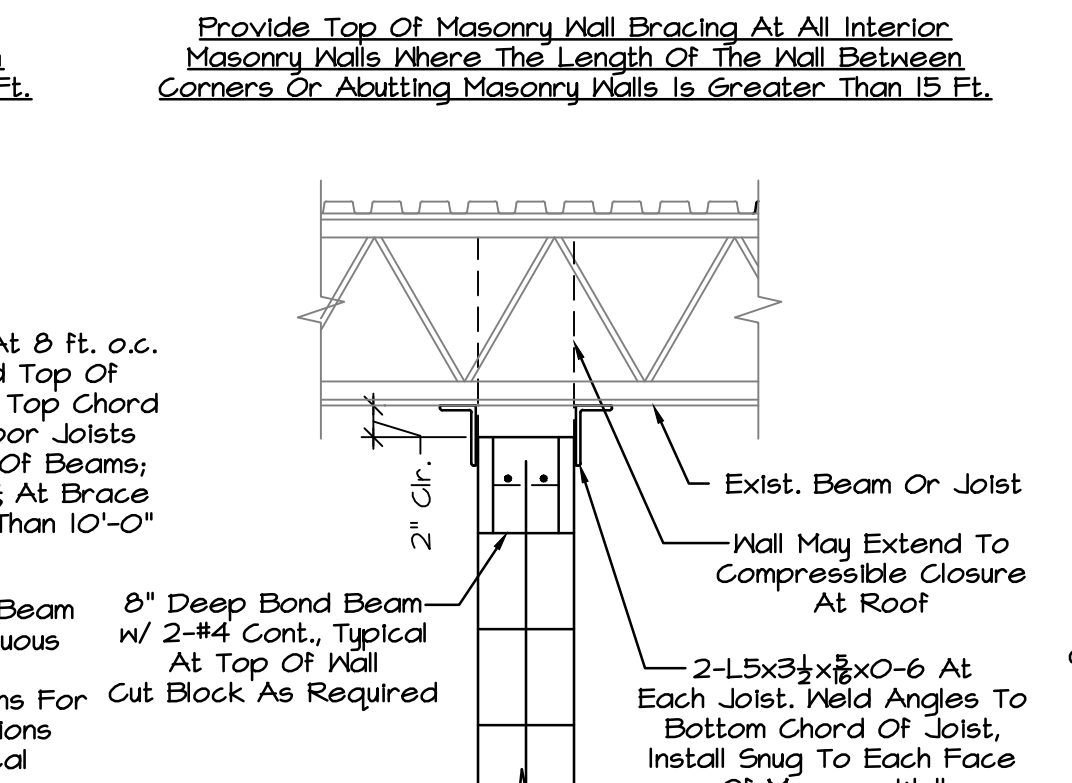
15 SECTION
1/2" = 1'-0"



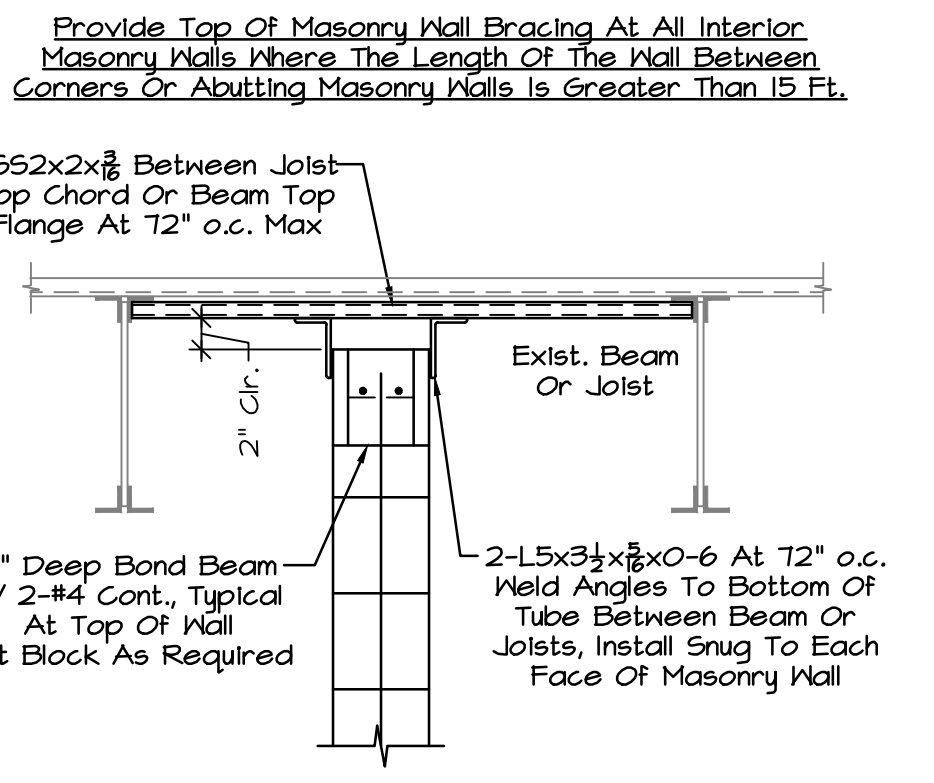
16 SECTION
1/2" = 1'-0"



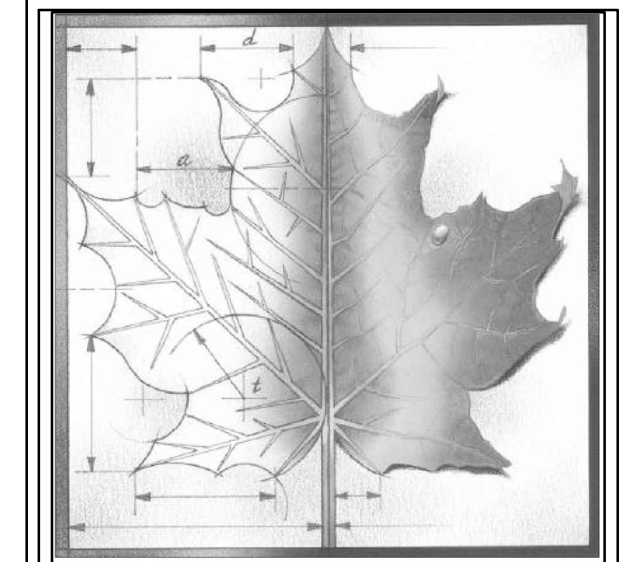
17 TYP. WALL BRACE DETAIL
No Scale



18 TYP. WALL BRACE DTL.
No Scale



19 TYP. WALL BRACE DTL.
No Scale



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DWA Dudley Williams and Associates, PA
2301 Laura + Suite 200 - Wichita, KS 67218-0514
316-263-2500 or www.dwa.com

17045.02 5301 in 1/17-045/17-045.04/5300 3/23/2018 [NE] [12x]

PROGRESS PRINT
NOT FOR CONSTRUCTION
DATE: 03-23-18

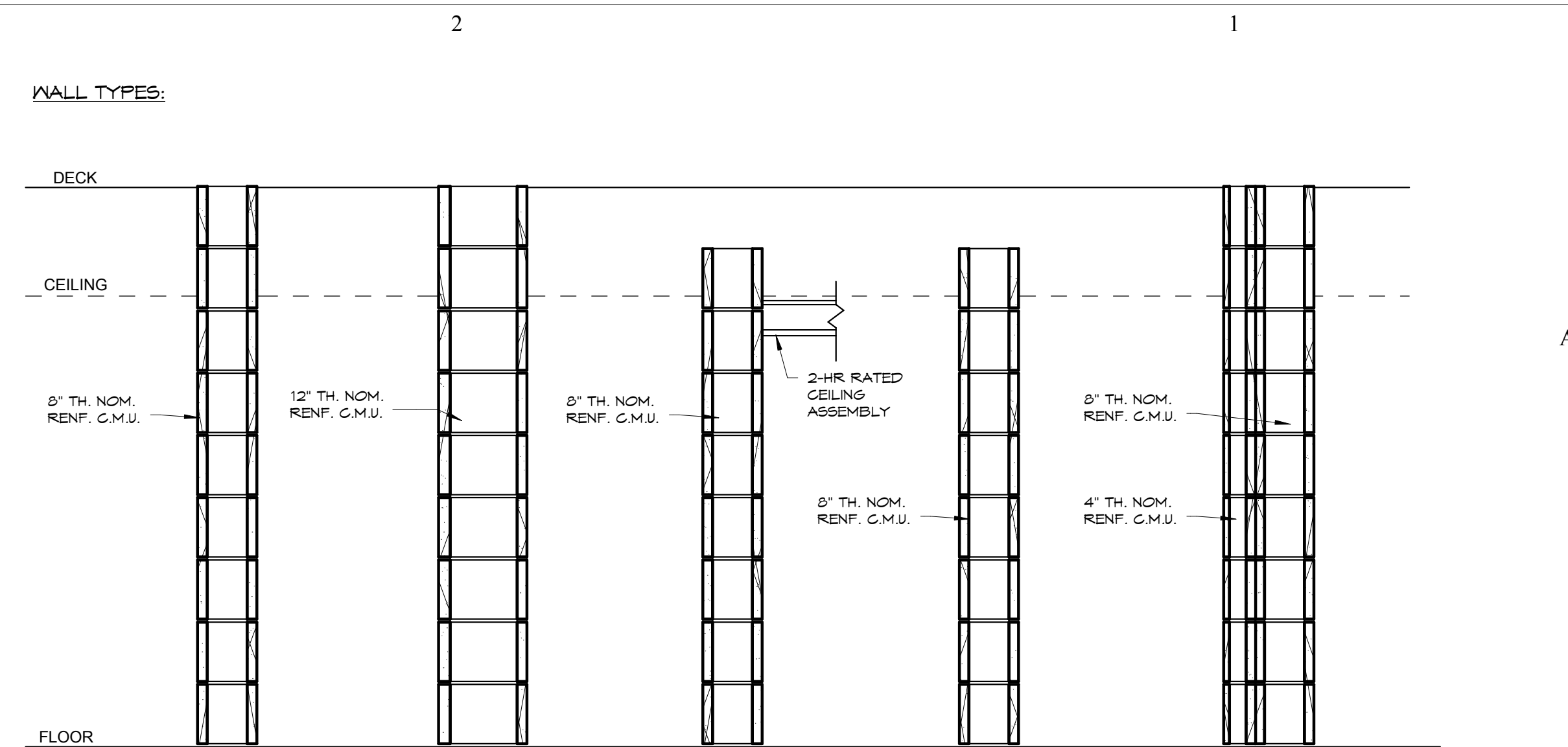
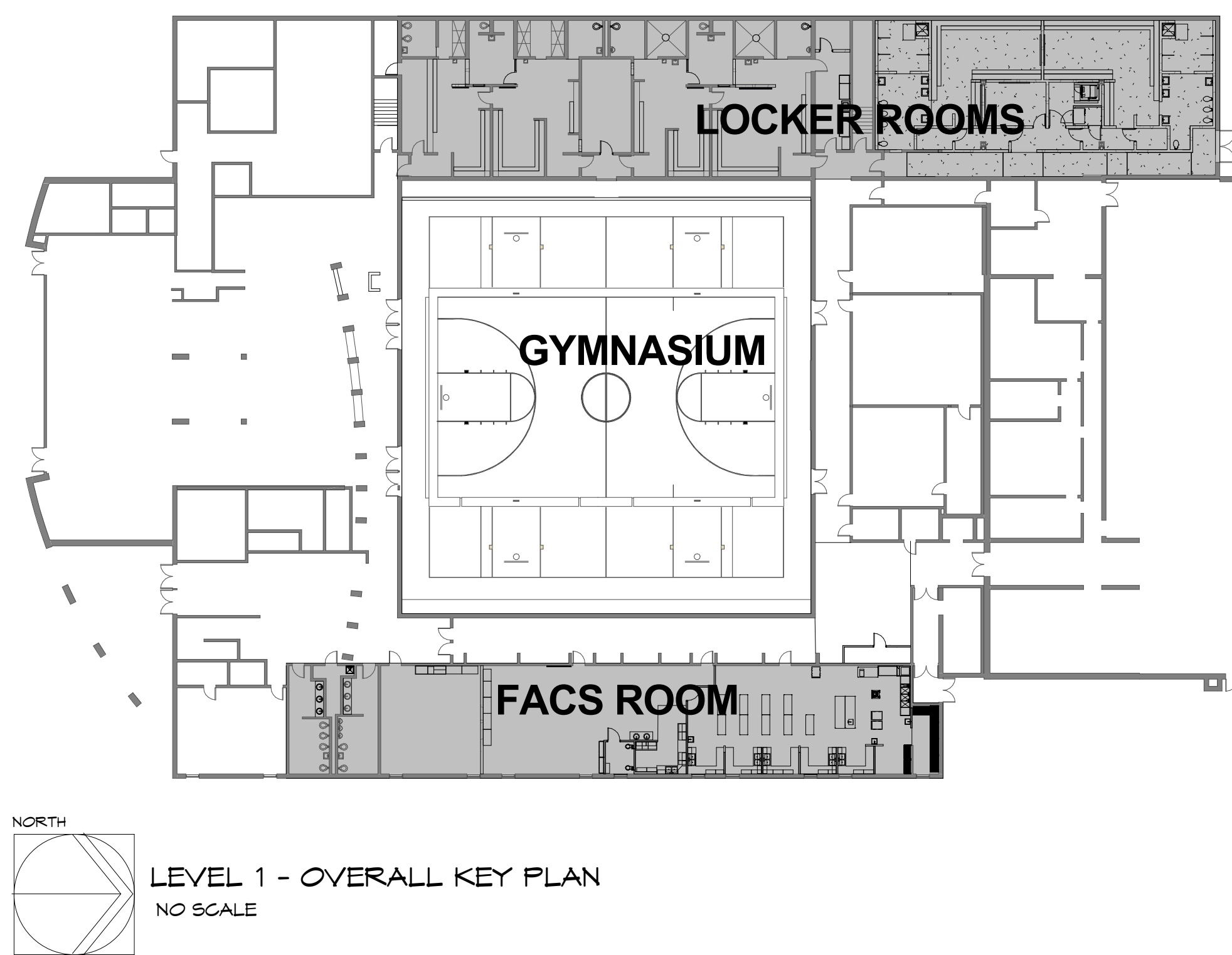
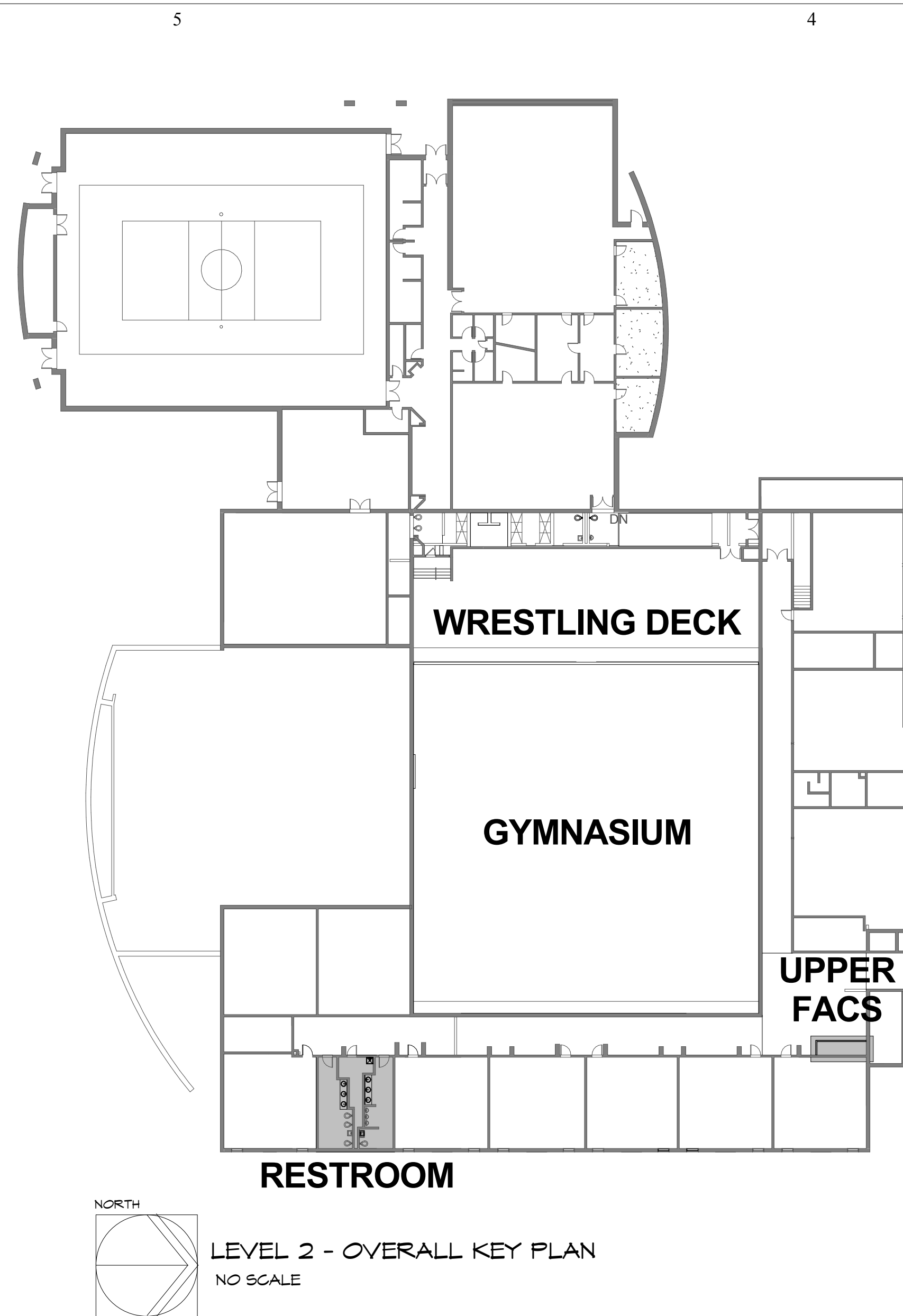
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PRICING SET
NOT FOR CONSTRUCTION

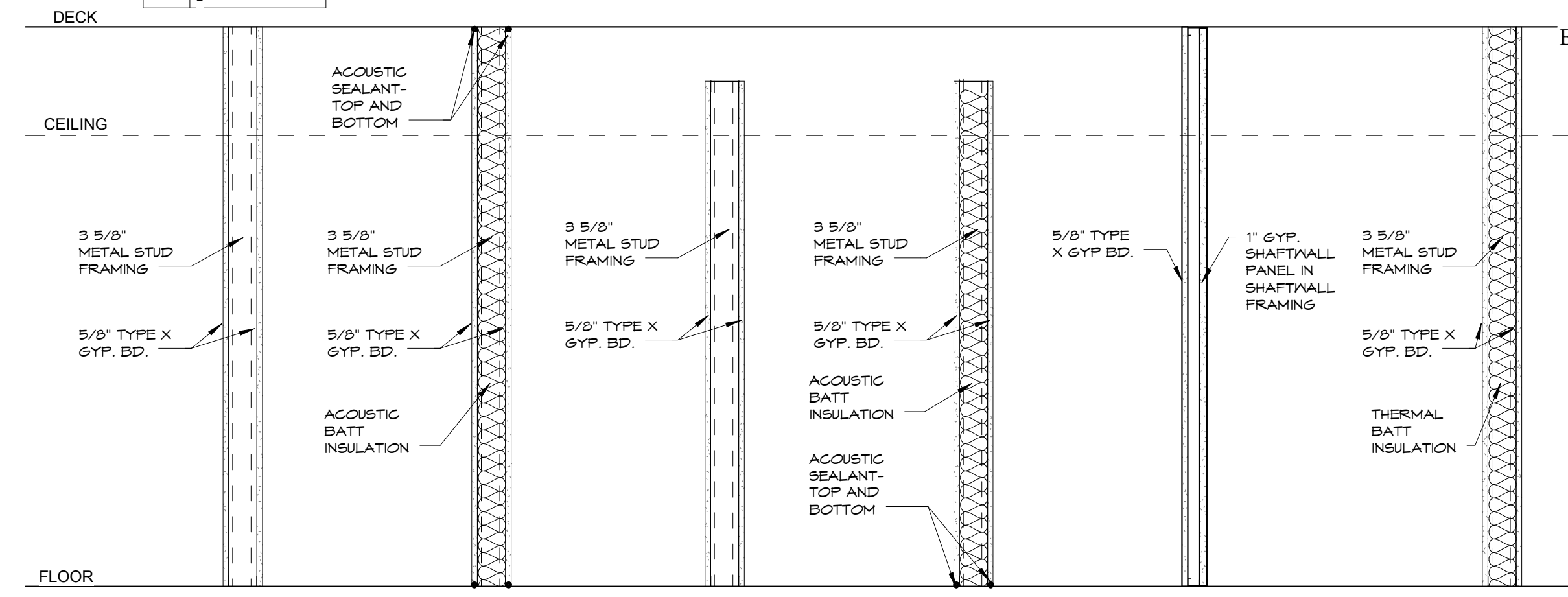
Project Number: **Project Number**
Date: **Issue Date**
Project Name: **USD 320 WAMEGO HIGH SCHOOL IMPROVEMENTS**
Project Address: **801 LINCOLN AVENUE WAMEGO, KS 66547**

Sheet Title: **SECTIONS AND DETAILS**

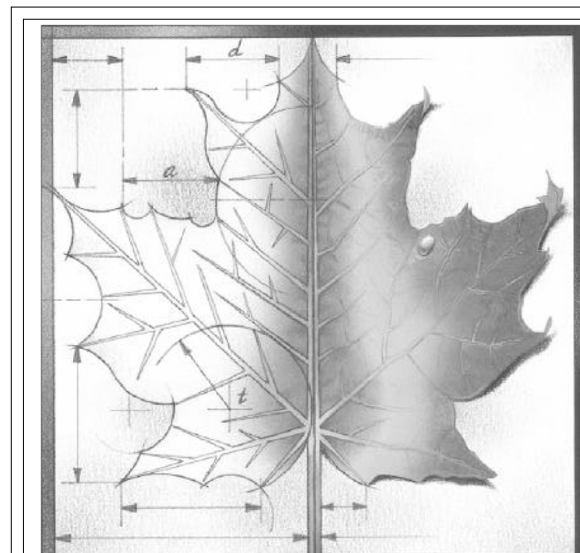
Sheet: **S301**



M1	INTERIOR MASONRY WALL NON-RATED	M2	INTERIOR MASONRY WALL NON-RATED	M4	INTERIOR MASONRY WALL 2-HR RATED	M5	INTERIOR MASONRY WALL NON-RATED	M6	INTERIOR MASONRY WALL NON-RATED
M3	INTERIOR MASONRY WALL 2-HR RATED								
M7	INTERIOR MASONRY WALL 1-HR RATED								



S1	INTERIOR FRAMED WALL NON-RATED	S3A	INTERIOR FRAMED WALL NON-RATED ACOUSTICAL	S5	INTERIOR FRAMED WALL NON-RATED	S5A	INTERIOR FRAMED WALL NON-RATED ACOUSTICAL	S6	INTERIOR SHAFT WALL 1-HR RATED	S7	INTERIOR FRAMED WALL 1-HR RATED INSULATED
S2	INTERIOR FRAMED WALL 1-HR RATED	S4A	INTERIOR FRAMED WALL 1-HR RATED ACOUSTICAL								



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REV	DESC	DATE
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**PRICING SET
NOT FOR CONSTRUCTION**

Project Number: **16036**

Date: **Issue Date**

Project Name:
USD 320 WAMEGO HIGH SCHOOL IMPROVEMENTS

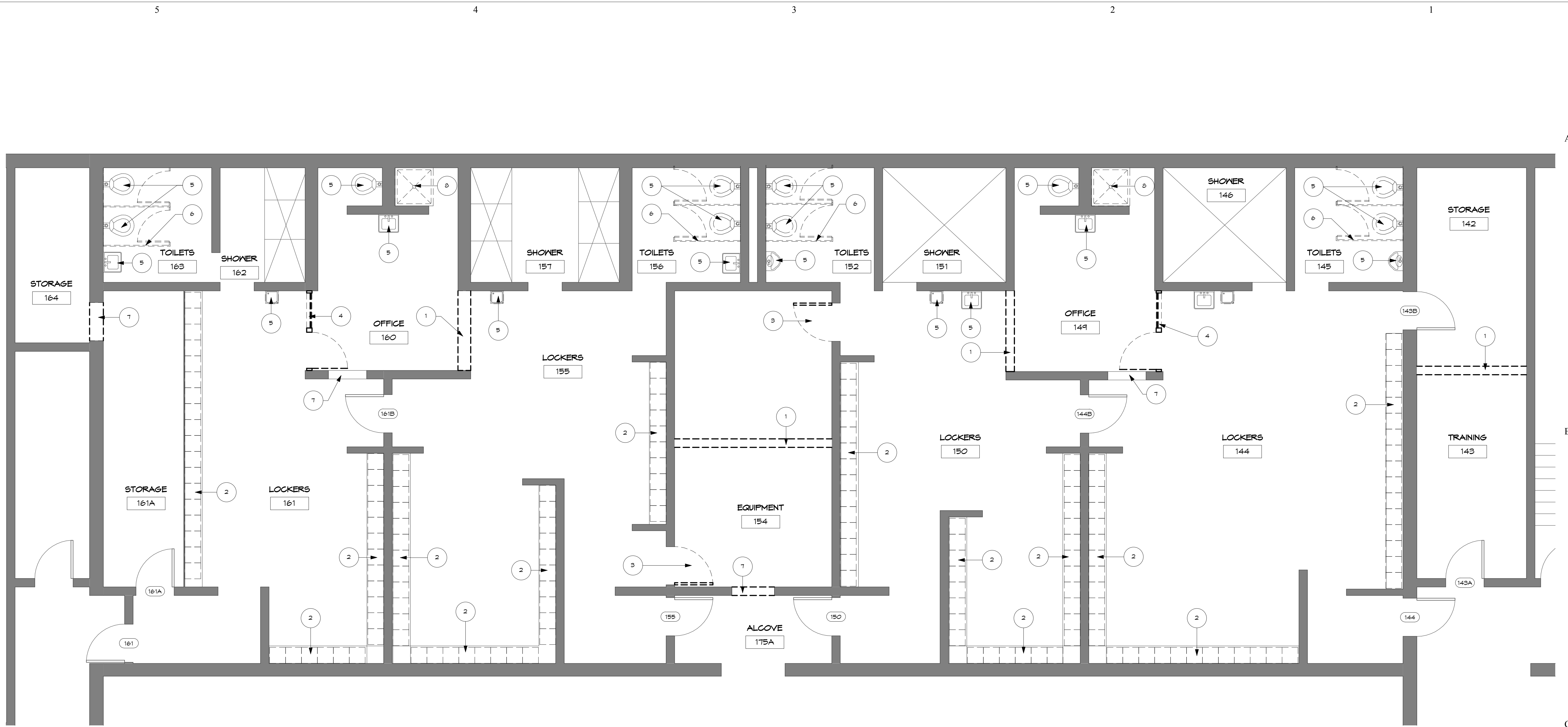
Project Address:
**801 LICNOLN AVENUE
WAMEGO, KS 66547**

Sheet Title:

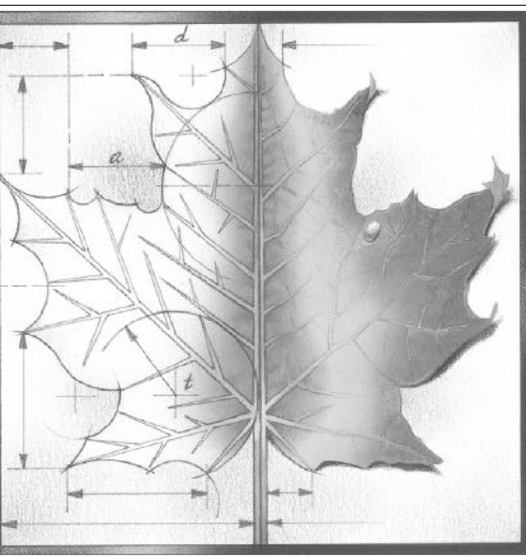
GENERAL INFORMATION

Sheet: **G1.01**

OF:



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



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DEMOLITION NOTES:

- 1 REMOVE EXISTING WALL
- 2 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 PARTITIONS
- 7 REMOVE EXISTING MASONRY WALL FOR INSTALLATION OF NEW DOOR OR WINDOW
- 8 REMOVE EXISTING SHOWER UNIT
- 9 REMOVE EXISTING CONCRETE STAIRS AND LANDING
- 10 REMOVE EXISTING COUNTERTOP

REV	DESC	DATE
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PRICING SET
 NOT FOR 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:
**DEMO PLAN -
 EXISTING
 LOCKER
 ROOMS**

Sheet:
D103

OF:

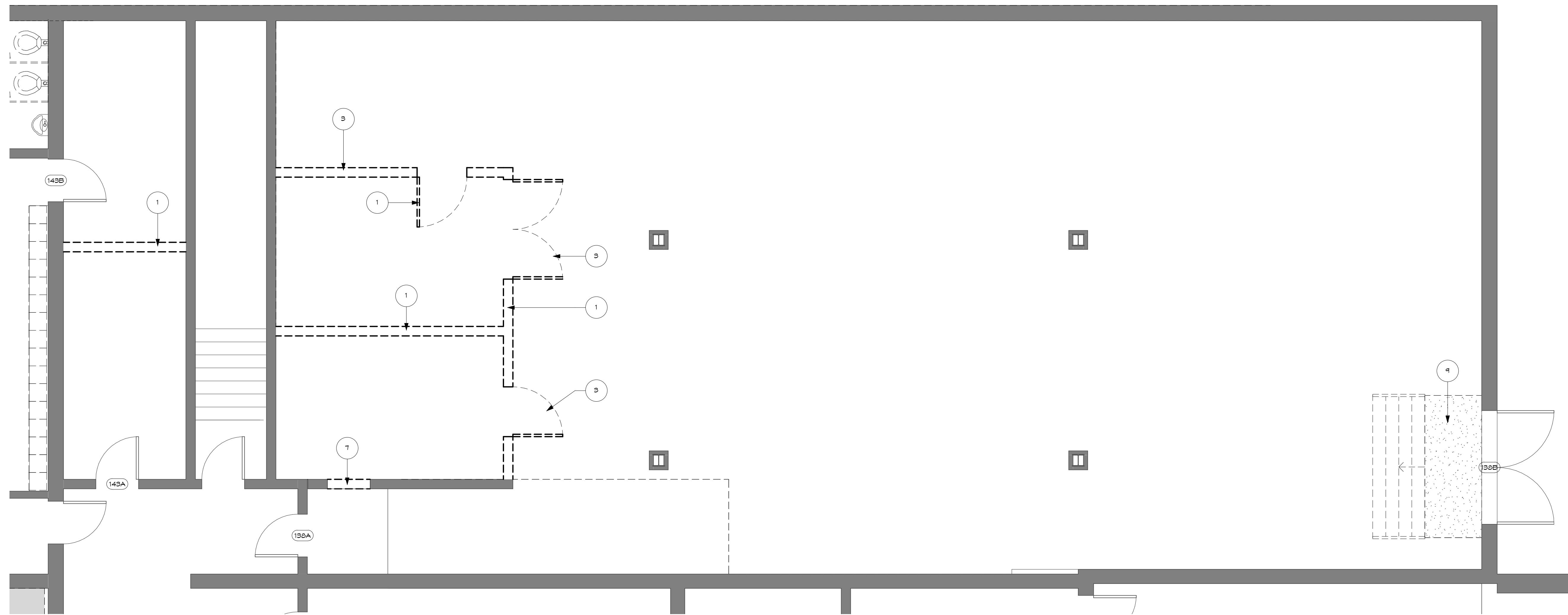
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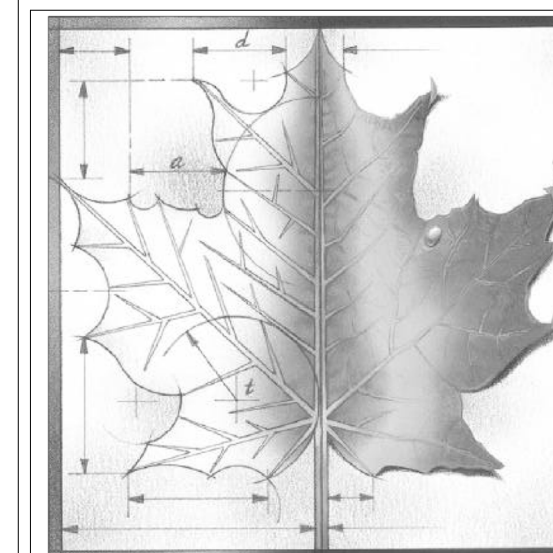
3

2

1



1
D104
DEMOLITION PLAN LEVEL 1 -NEW
LOCKERS
1/4" = 1'-0"



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- DEMOLITION NOTES:**
- 1 REMOVE EXISTING WALL
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 - 6 REMOVE EXISTING TOILET PARTITIONS
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 - 10 REMOVE EXISTING COUNTERTOP

REV	DESC	DATE
PRICING SET NOT FOR CONSTRUCTION		

Project Number: **16036**

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USD 320 WAMEGO HIGH SCHOOL IMPROVEMENTS

Project Address:
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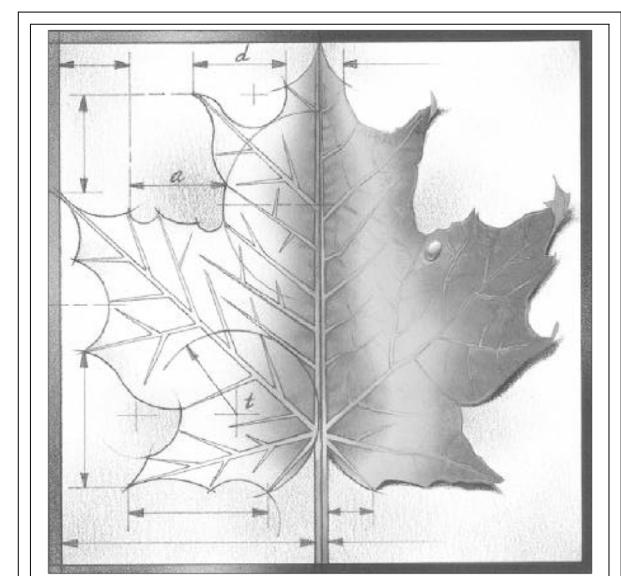
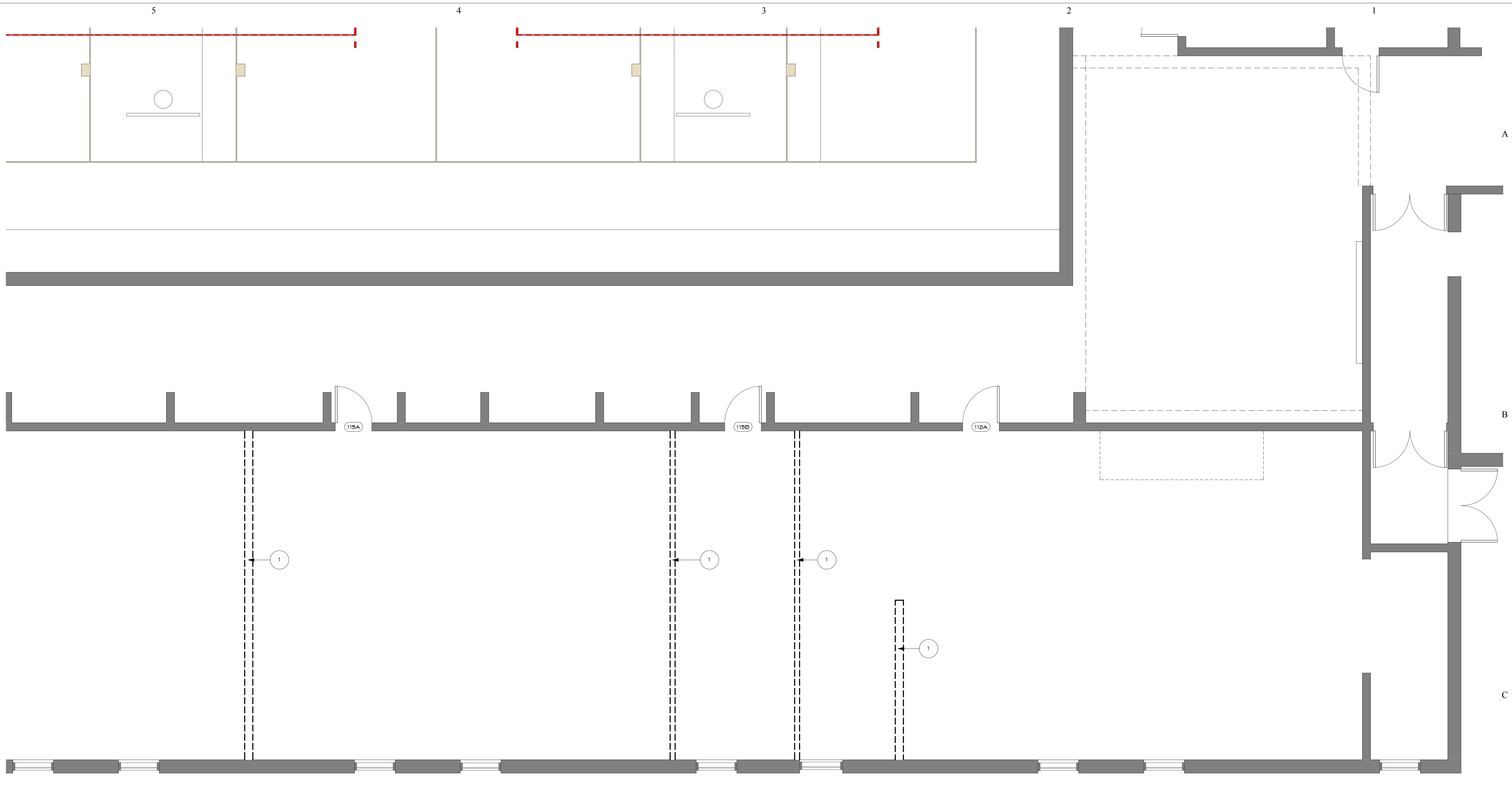
Sheet Title:

**DEMO PLAN-
NEW LOCKER
ROOMS**

Sheet:

D104

OF:



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- 7 REMOVE EXISTING MASONRY WALL FOR INSTALLATION OF NEW DOOR OR WINDOW
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- 10 REMOVE EXISTING COUNTERTOP

REV	DESC	DATE

**PRICING SET
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Project Number: **16036**

Date: **Issue Date**

Project Name:

USD 320 WAMEGO HIGH SCHOOL IMPROVEMENTS

Project Address:
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Sheet Title:

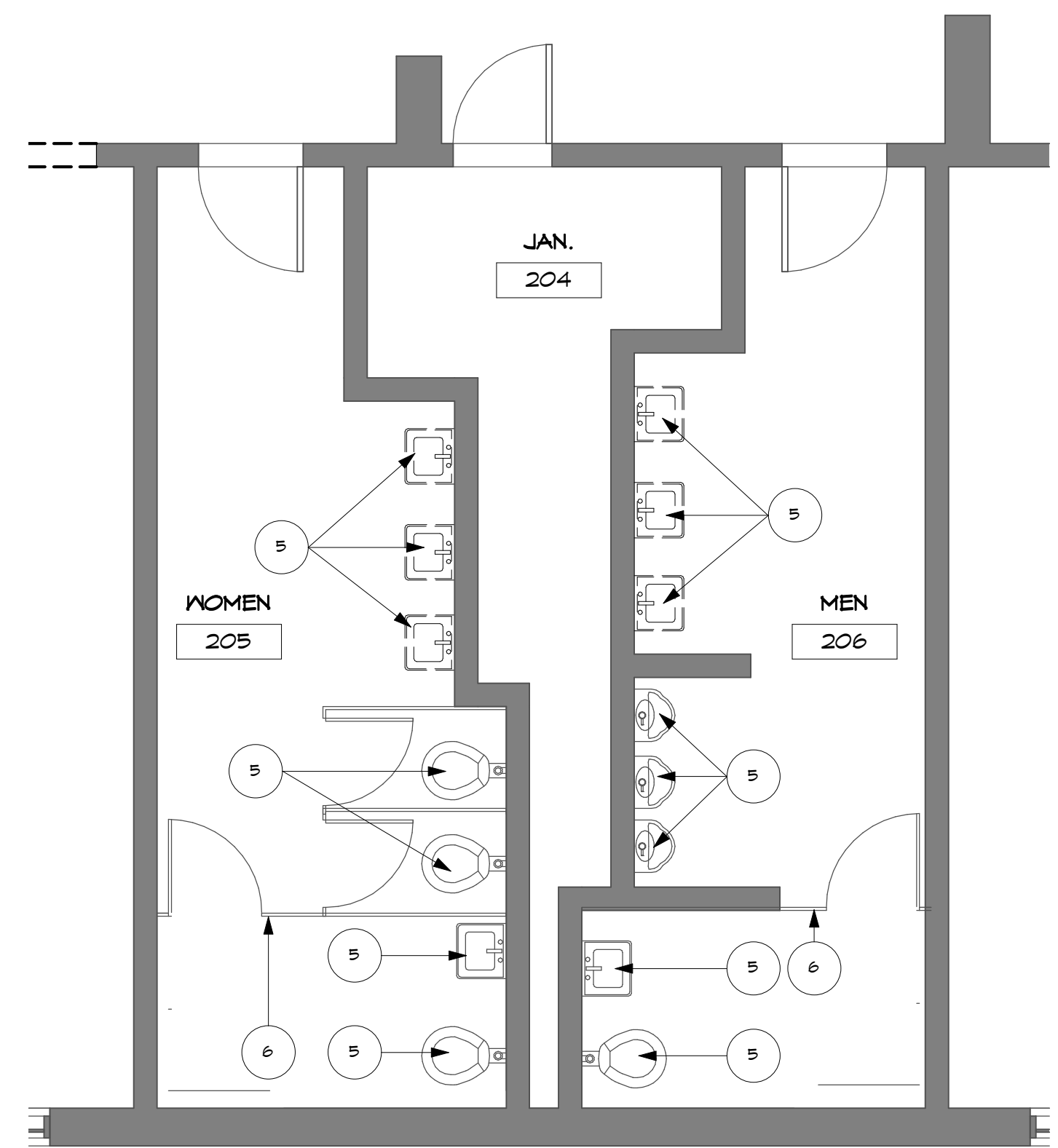
**DEMO PLAN -
FACS ROOM**

Sheet: **D105**

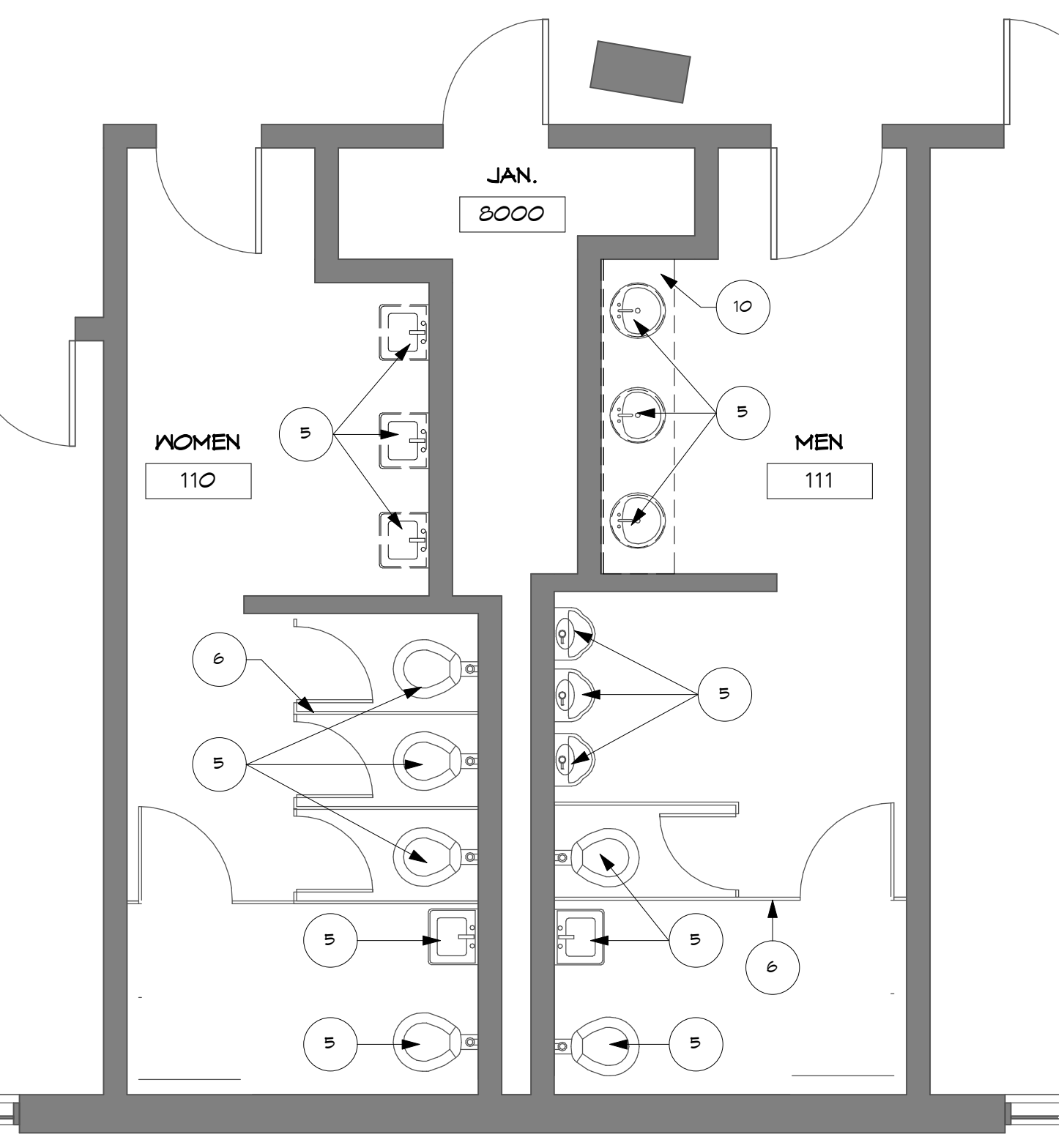
Of:

1
D105
DEMOLITION PLAN LEVEL 1 - FACS
1/4" = 1'-0"

5 4

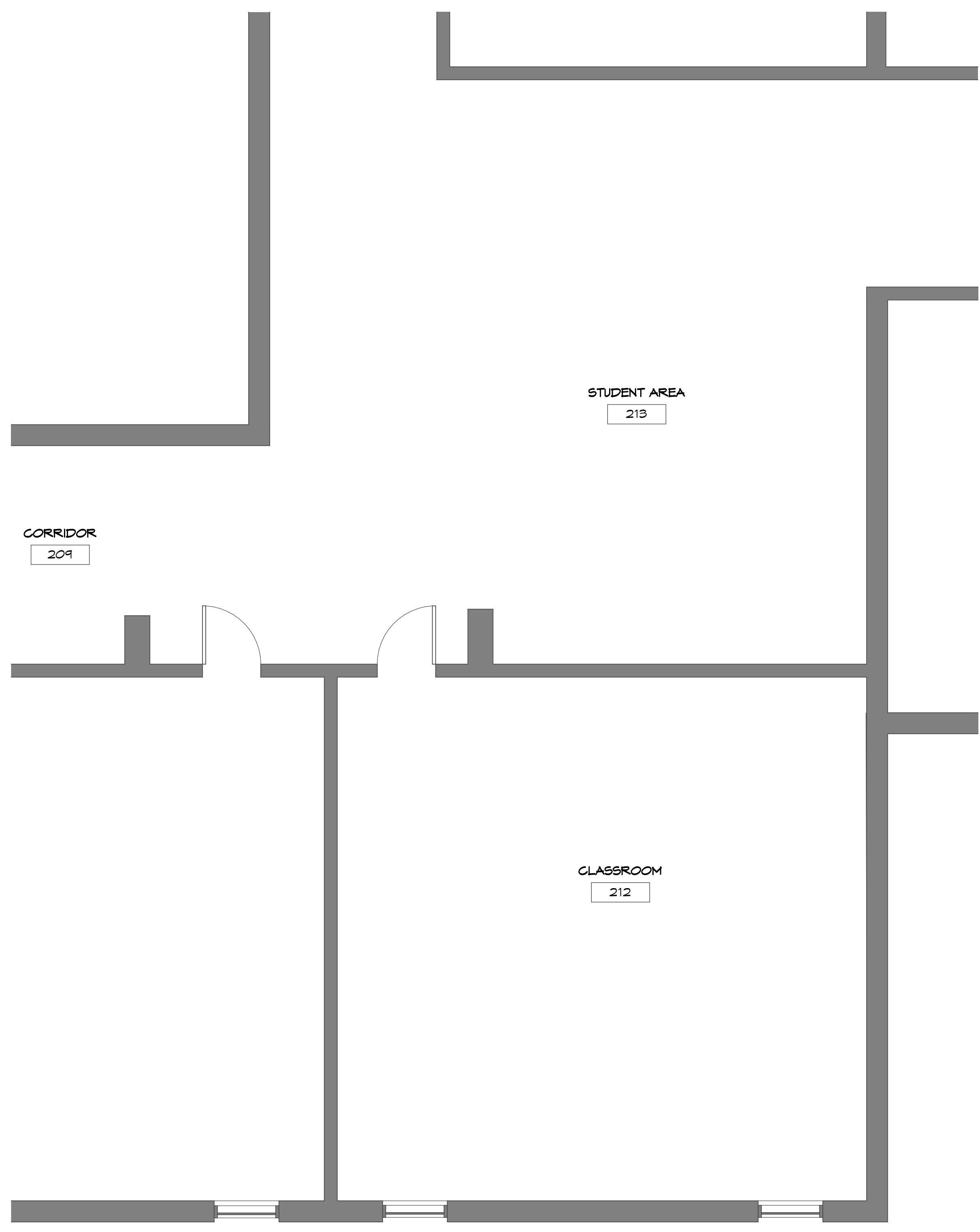


1
D106
DEMOLITION PLAN LEVEL 2 -
RESTROOMS
1/4" = 1'-0"

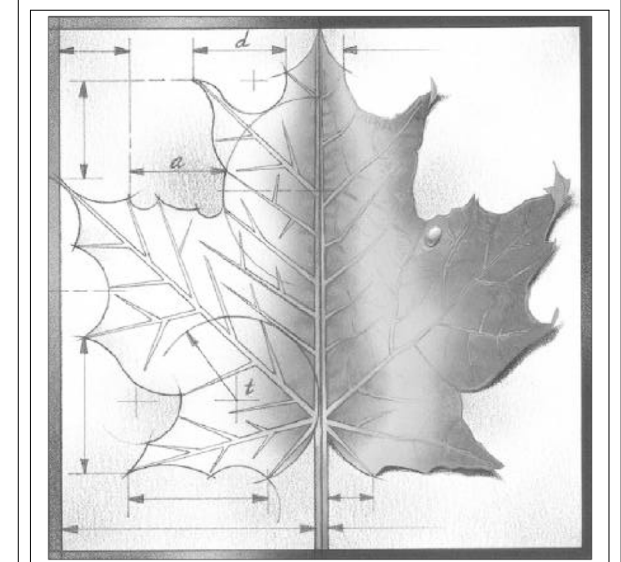


2
D106
DEMOLITION PLAN LEVEL 1 -
RESTROOMS
1/4" = 1'-0"

3 2 1



3
D106
DEMOLITION PLAN LEVEL 2 - STUDENT
AREA
1/4" = 1'-0"



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- DEMOLITION NOTES:
- 1 REMOVE EXISTING WALL
 - 2 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 PARTITIONS
 - 7 REMOVE EXISTING MASONRY WALL FOR INSTALLATION OF NEW DOOR OR WINDOW
 - 8 REMOVE EXISTING SHOWER UNIT
 - 9 REMOVE EXISTING CONCRETE STAIRS AND LANDING
 - 10 REMOVE EXISTING COUNTERTOP

REV	DESC	DATE
PRICING SET NOT FOR CONSTRUCTION		

Project Number: **16036**

Date: **Issue Date**

Project Name:

USD 320 WAMEGO HIGH SCHOOL IMPROVEMENTS

Project Address:
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Sheet Title:

**DEMOLITON
PLANS -
RESTROOMS**

Sheet: **D106**

Of:

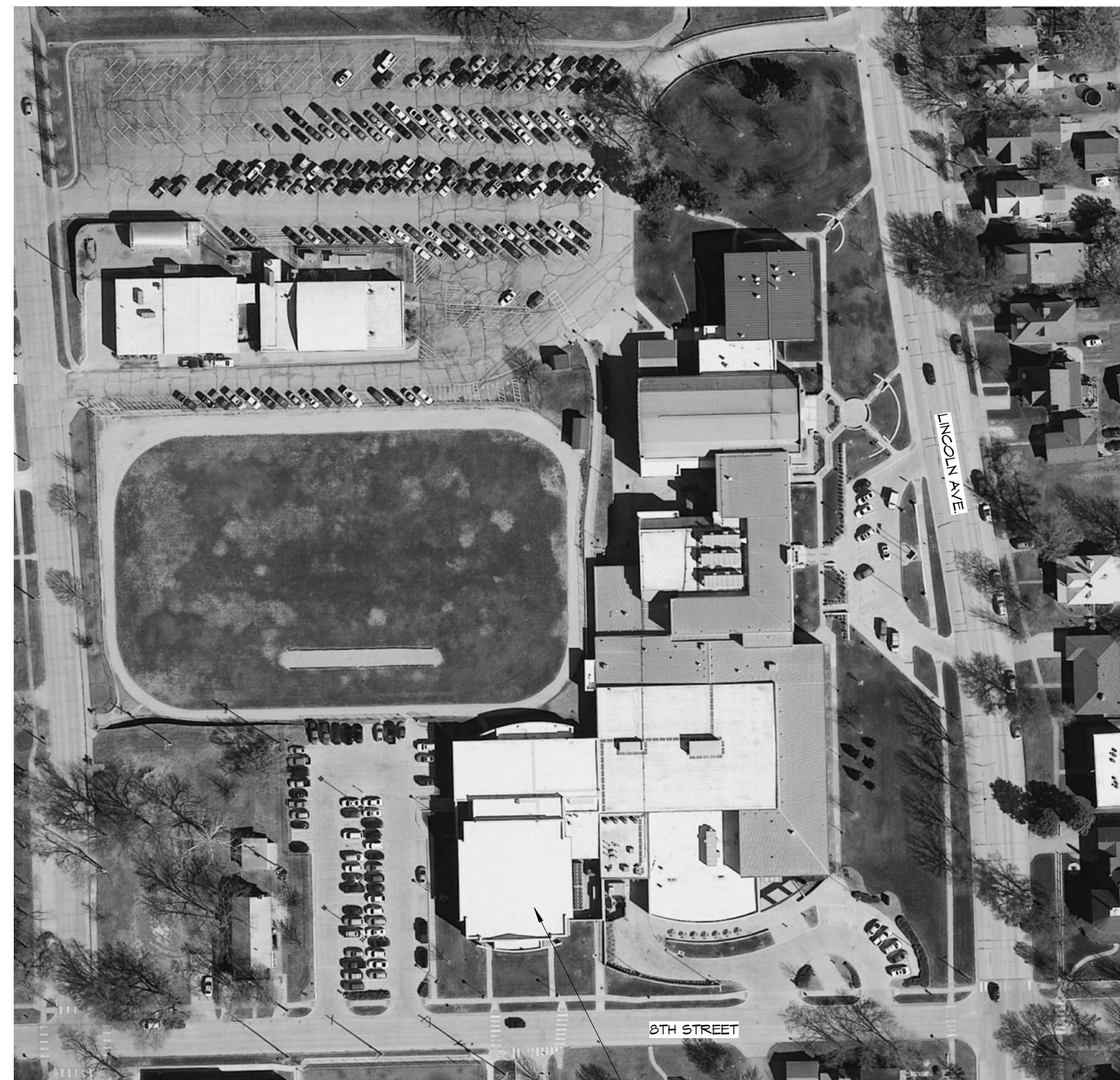
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4

3

2

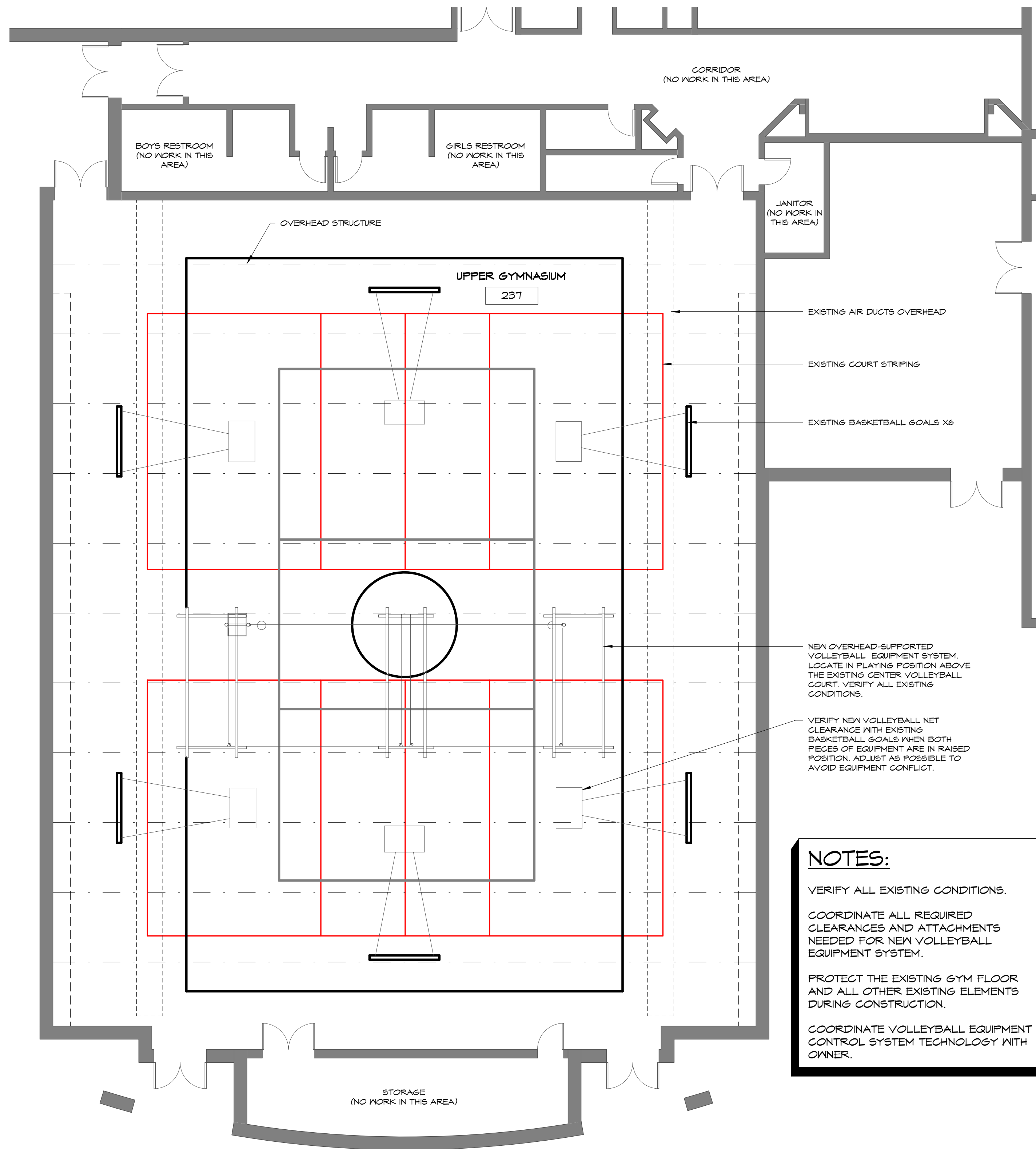
1



NORTH
 AERIAL SITE PLAN
 1" = 100'-0"

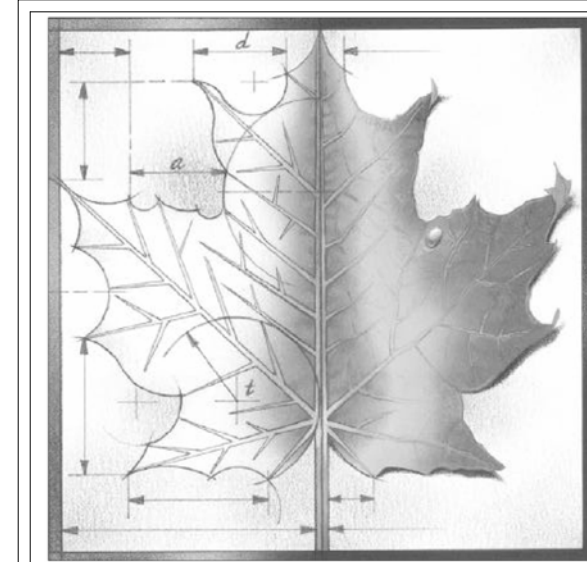
UPPER GYMNASIUM LOCATION

D3 UPPER GYM
 A101 1/8" = 1'-0"



NOTES:

- VERIFY ALL EXISTING CONDITIONS.
- COORDINATE ALL REQUIRED CLEARANCES AND ATTACHMENTS NEEDED FOR NEW VOLLEYBALL EQUIPMENT SYSTEM.
- PROTECT THE EXISTING GYM FLOOR AND ALL OTHER EXISTING ELEMENTS DURING CONSTRUCTION.
- COORDINATE VOLLEYBALL EQUIPMENT CONTROL SYSTEM TECHNOLOGY WITH OWNER.



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REV	DESC	DATE
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PRICING SET - NOT FOR CONSTRUCTION

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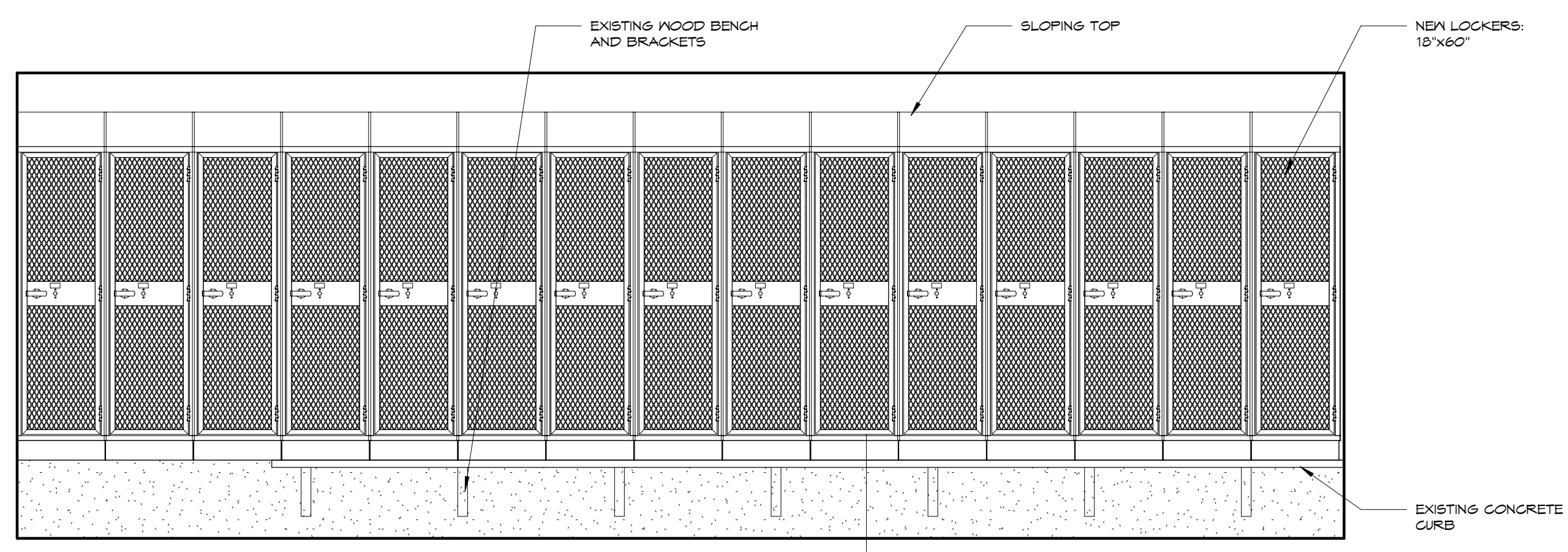
Project Name:
USD 320 WAMEGO HIGH SCHOOL IMPROVEMENTS

Project Address:
**801 LINCOLN AVENUE
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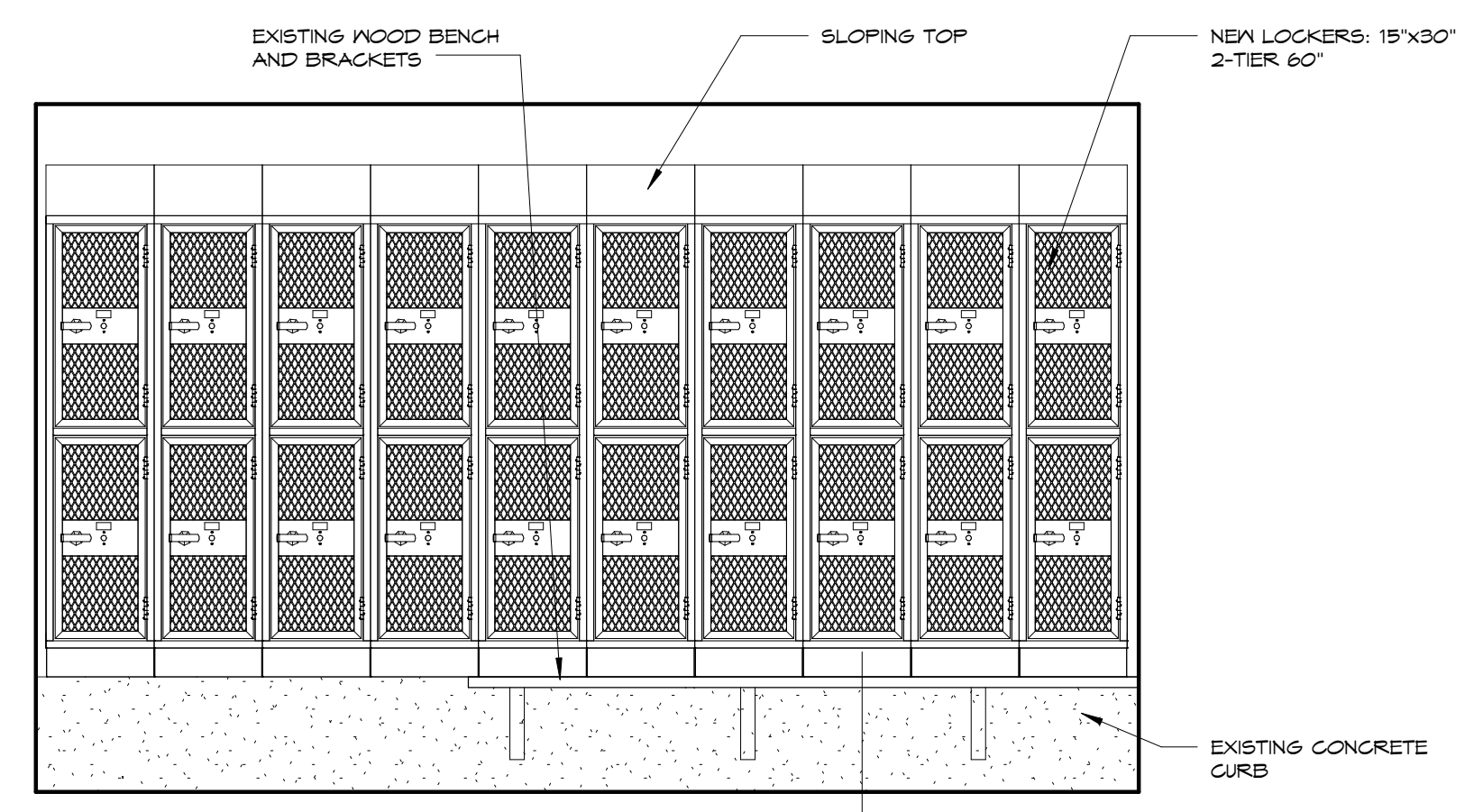
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UPPER GYMNASIUM

Sheet:
A101

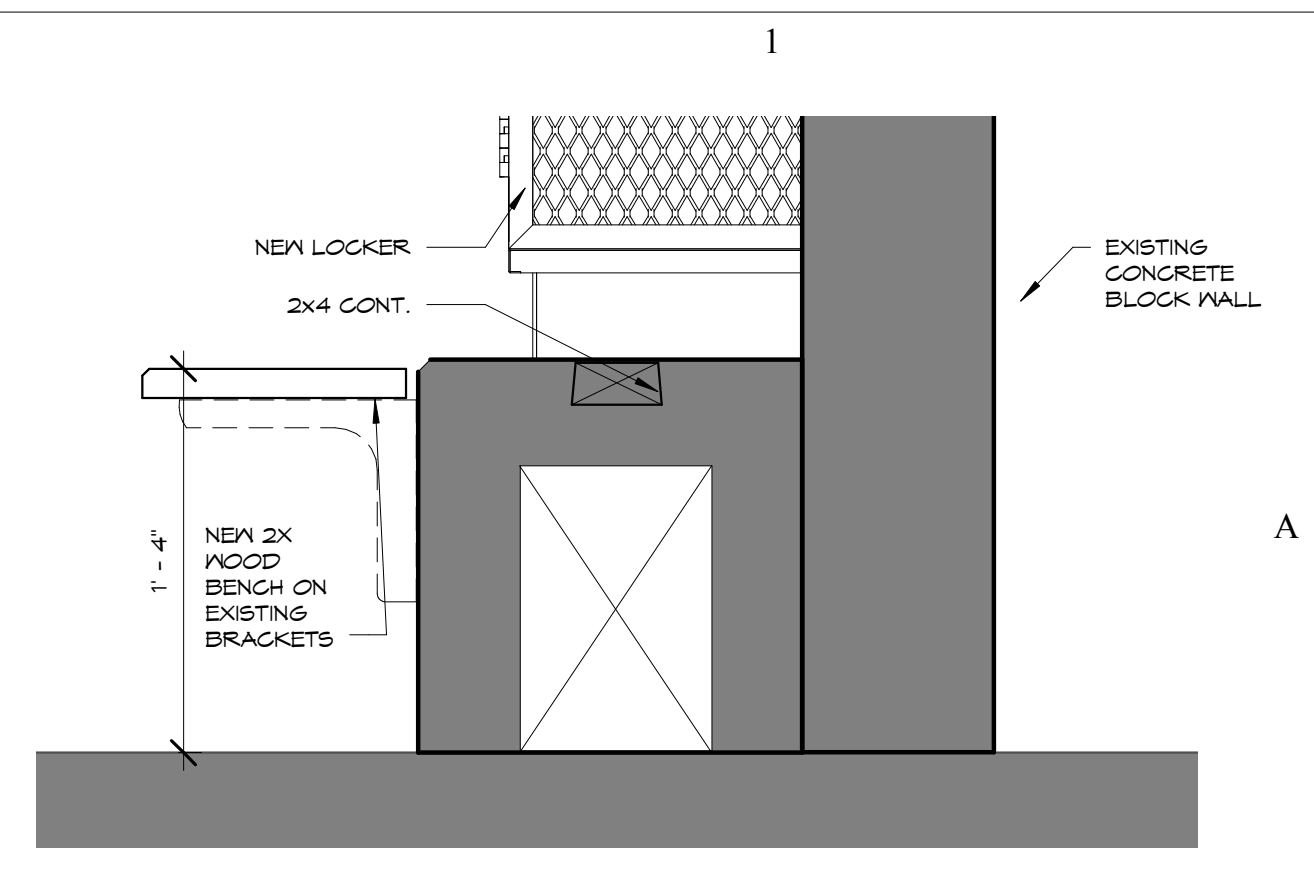
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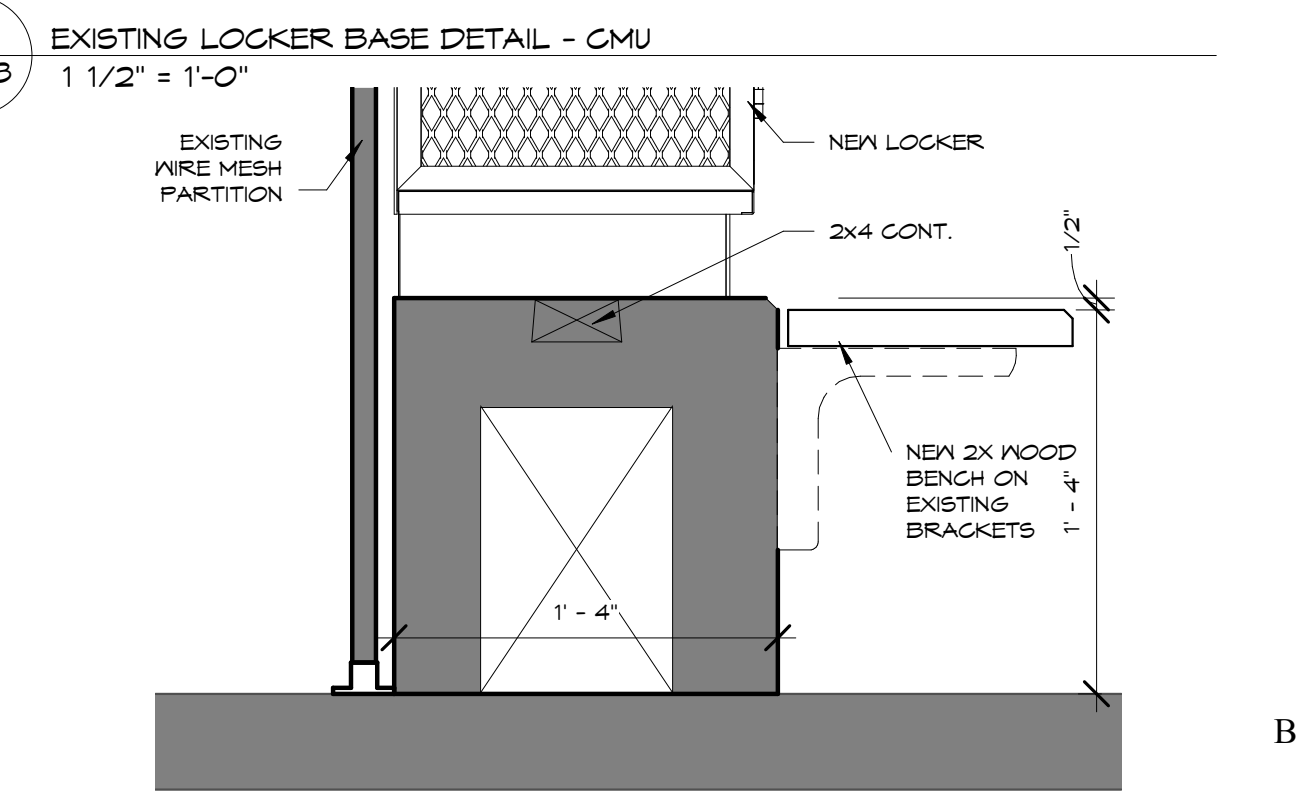
2
A103 TYPICAL 18'X60' LOCKER @ EXISTING LOCKER ROOM
1/2" = 1'-0"



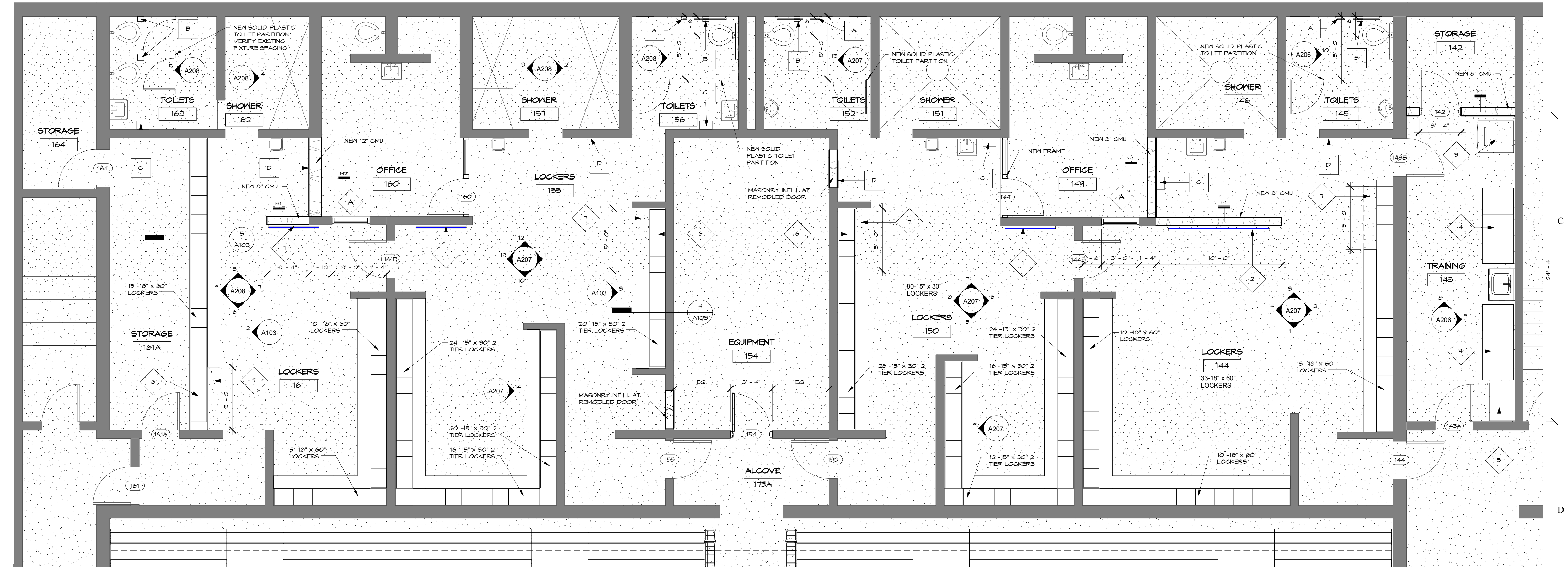
3
A103 TYPICAL 15'X30' 2 TIER LOCKER @ EXISTING LOCKER ROOM
1/2" = 1'-0"



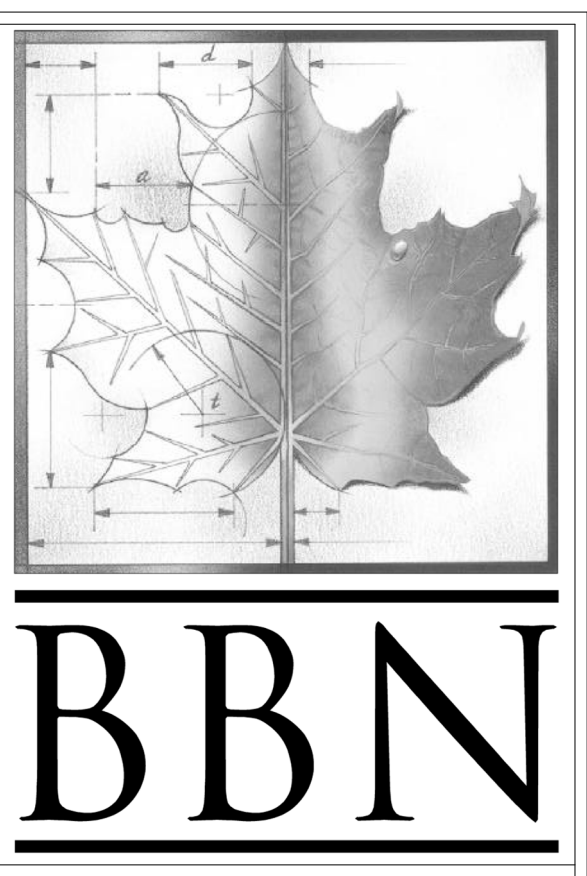
4
A103 EXISTING LOCKER BASE DETAIL - CMU
1 1/2" = 1'-0"



5
A103 EXISTING LOCKER BASE DETAIL - MESH PARTITION
1 1/2" = 1'-0"



1
A103 EXISTING P.E. LOCKERS - FLOOR PLAN
1/4" = 1'-0"



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PLAN NOTES

1. 4' X 4' MARKER BOARD
2. 4' X 6' MARKER BOARD
3. ICE MACHINE
4. TRAINING TABLE - BY OWNER
5. TALL STORAGE CABINET - BY OWNER
6. ACCESSIBLE LOCKER
7. REMOVE PORTION OF EXISTING WOOD BENCH AND BRACKETS. REINSTALL 1 BRACKET TO SUPPORT END OF REMAINING BENCH.
8. WASHER / EXTRACTOR
9. HIGH CAPACITY CLOTHES DRYER
10. 4'-0" X 4'-6" X 6" TH. RAISED CONG. PAD
11. 4'-6" X 4'-0" X 6" TH. RAISED CONG. PAD

TOILET ACCESSORIES KEY

A	GRAB BARS - 36" AND 42"
B	TOILET TISSUE DISPENSER - BY OWNER
C	PAPER TOWEL DISPENSER - BY OWNER
D	24" X 60" ANGLE FRAME MIRROR
E	18" X 30" ANGLE FRAME MIRROR
F	SOAP DISPENSER - BY OWNER
G	5'-0" X 5'-0" PLATE MIRROR

REV	DESC	DATE

PRICING SET
NOT FOR CONSTRUCTION

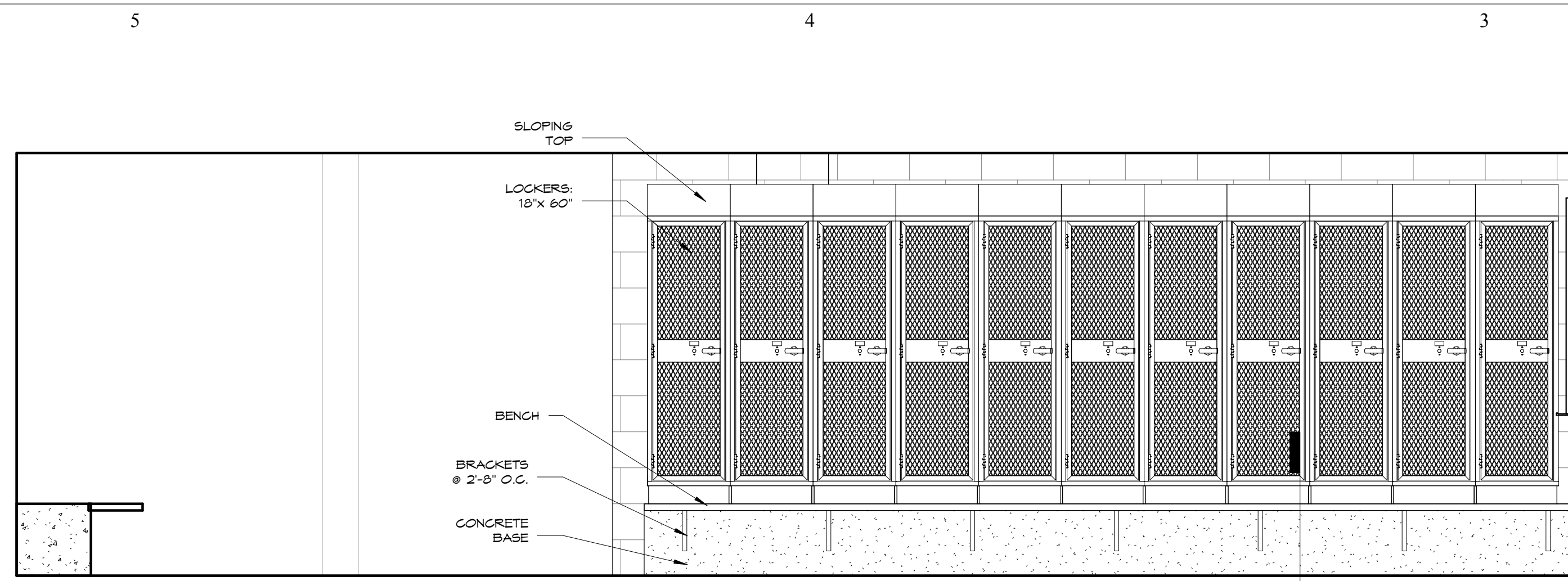
Project Number: **16036**
Date: **Issue Date**

Project Name:
USD 320 WAMEGO HIGH SCHOOL IMPROVEMENTS

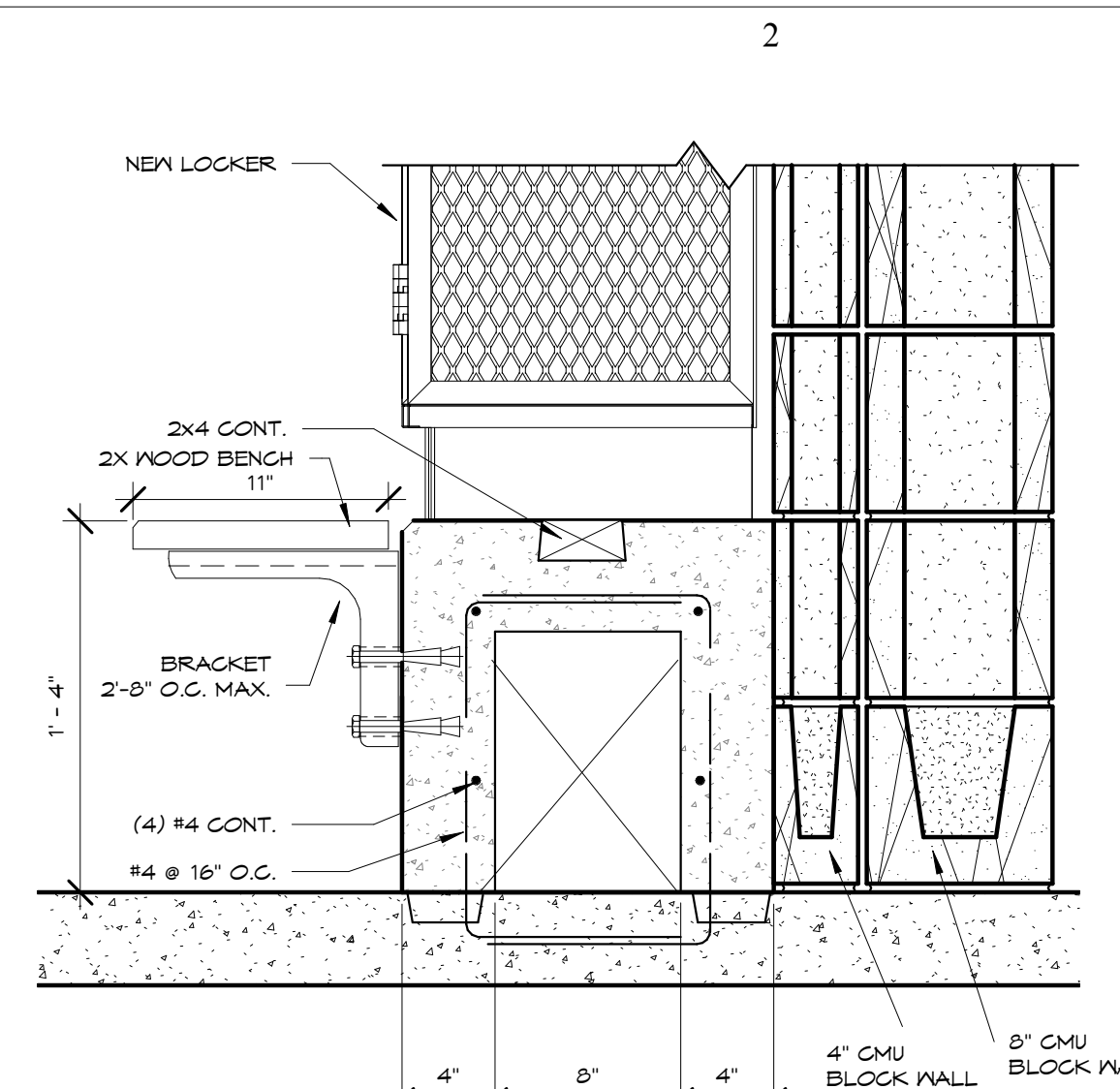
Project Address:
**801 LICNOLN AVENUE
WAMEGO, KS 66547**

Sheet Title:
EXISTING LOCKER ROOMS

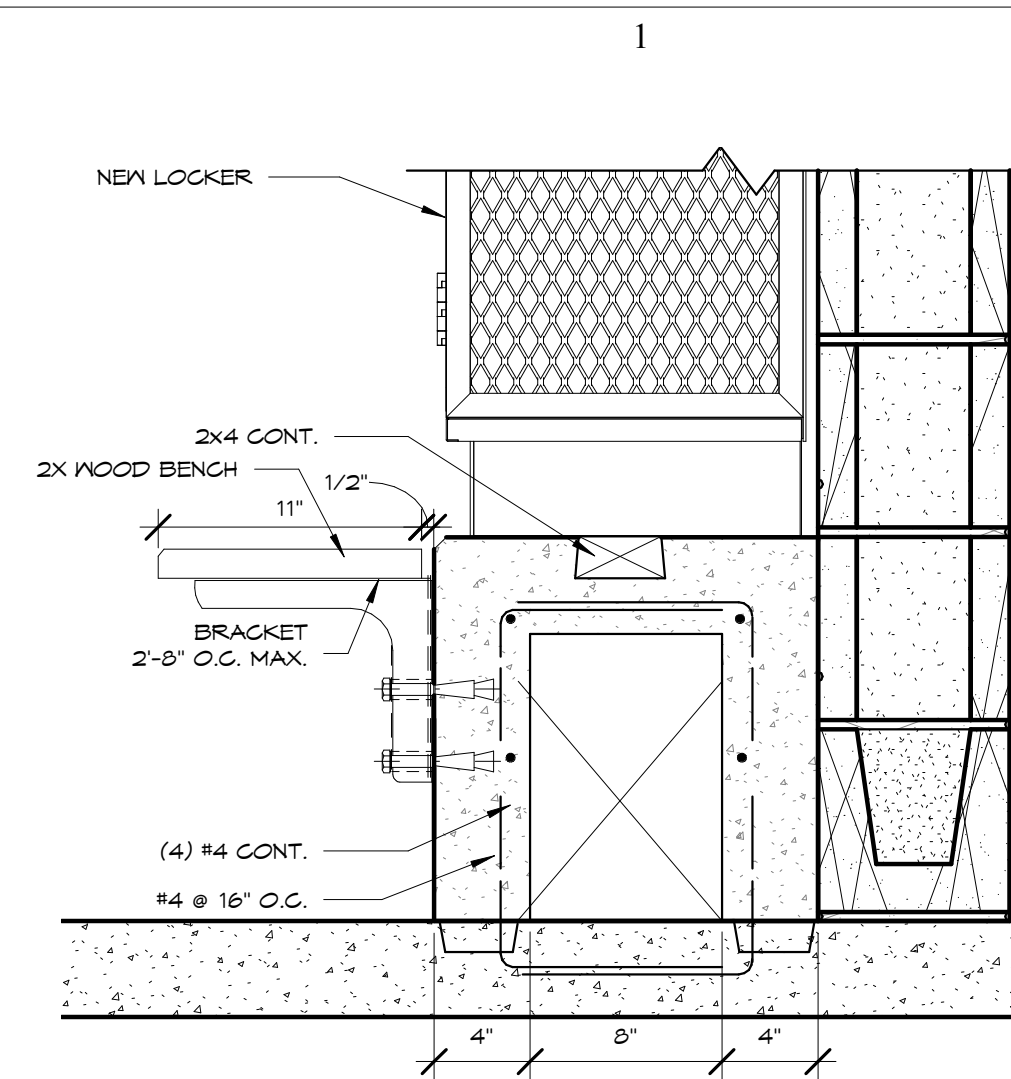
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A103



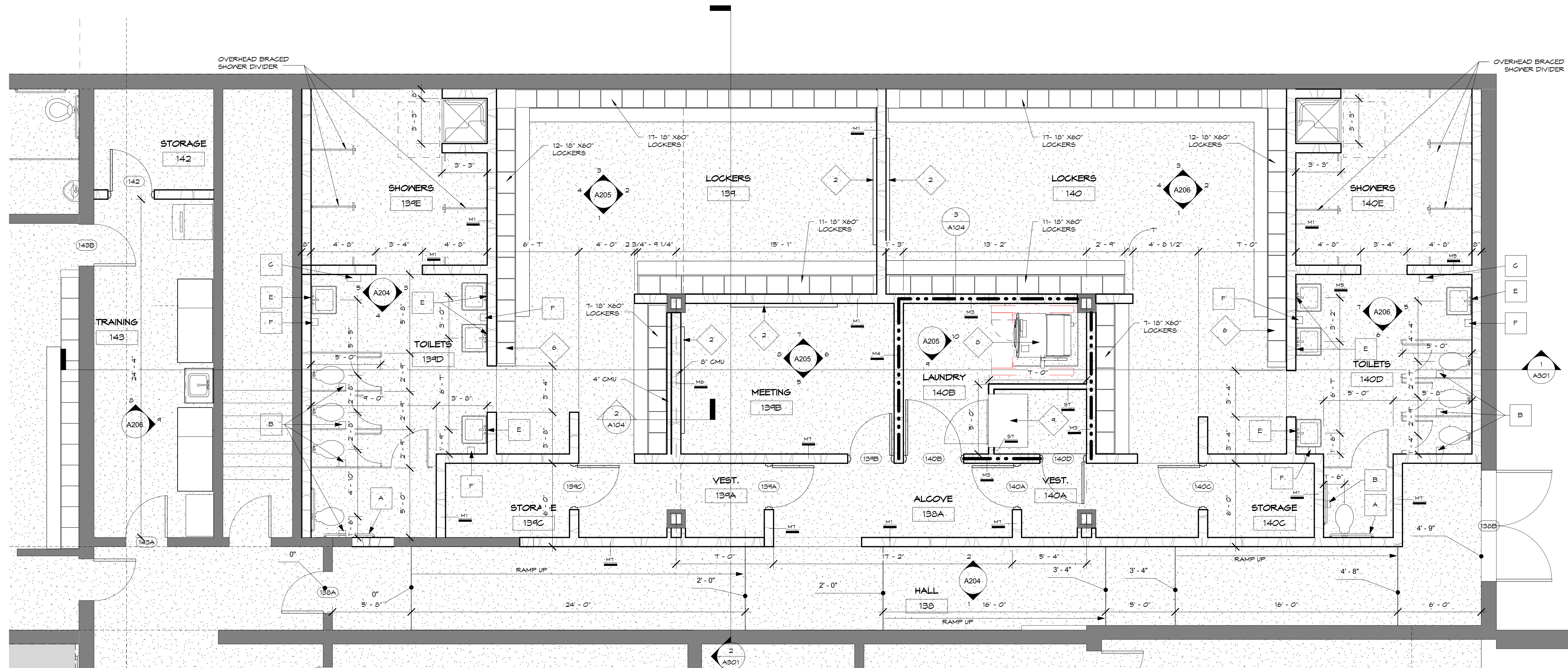
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A104 TYPICAL LOCKER CONFIGURATION - NEW LOCKER ROOMS
1/2" = 1'-0"



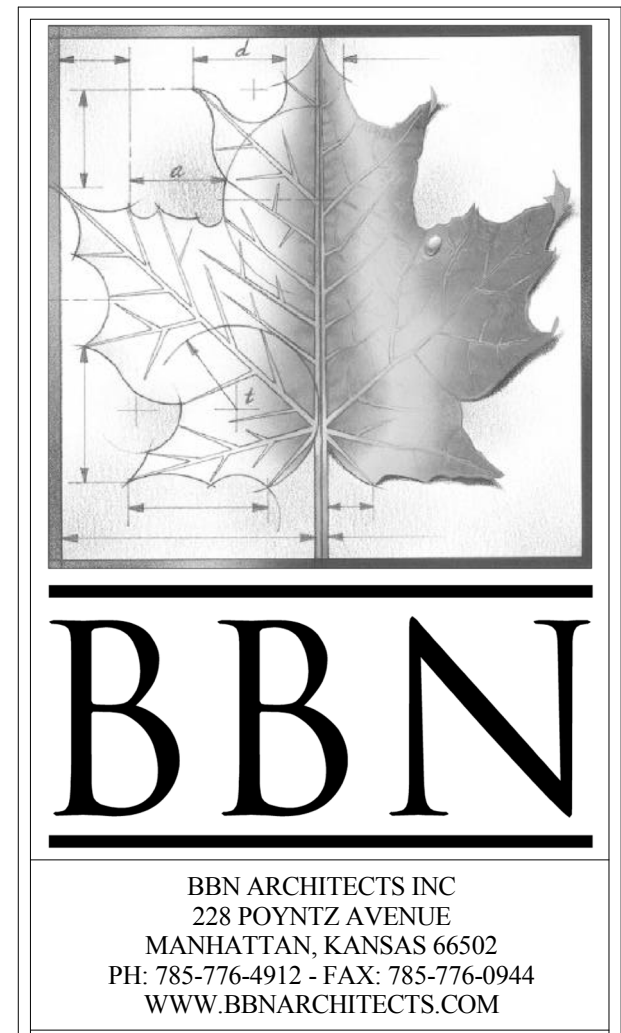
2
A104 NEW LOCKER BASE DETAIL - CMU (4'x8")
1 1/2" = 1'-0"



3
A104 NEW LOCKER BASE DETAIL - CMU (8")
1 1/2" = 1'-0"



4
A104 LEVEL 1 - NEW LOCKERS
1/4" = 1'-0"



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- PLAN NOTES
- 4' X 4' MARKER BOARD
 - 4' X 8' MARKER BOARD
 - ICE MACHINE
 - TRAINING TABLE - BY OWNER
 - TALL STORAGE CABINET - BY OWNER
 - ACCESSIBLE LOCKER
 - REMOVE PORTION OF EXISTING WOOD BENCH AND BRACKETS. REINSTALL 1 BRACKET TO SUPPORT END OF REMAINING BENCH.
 - WASHER / EXTRACTOR
 - HIGH CAPACITY CLOTHES DRYER
 - 4'-0" X 4'-6" X 6" TH. RAISED CONC. PAD
 - 4'-6" X 4'-0" X 6" TH. RAISED CONC. PAD

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 - B TOILET TISSUE DISPENSER - BY OWNER
 - C PAPER TOWEL DISPENSER - BY OWNER
 - D 24" X 60" ANGLE FRAME MIRROR
 - E 18" X 30" ANGLE FRAME MIRROR
 - F SOAP DISPENSER - BY OWNER
 - G 5'-0" X 5'-0" PLATE MIRROR

REV	DESC	DATE

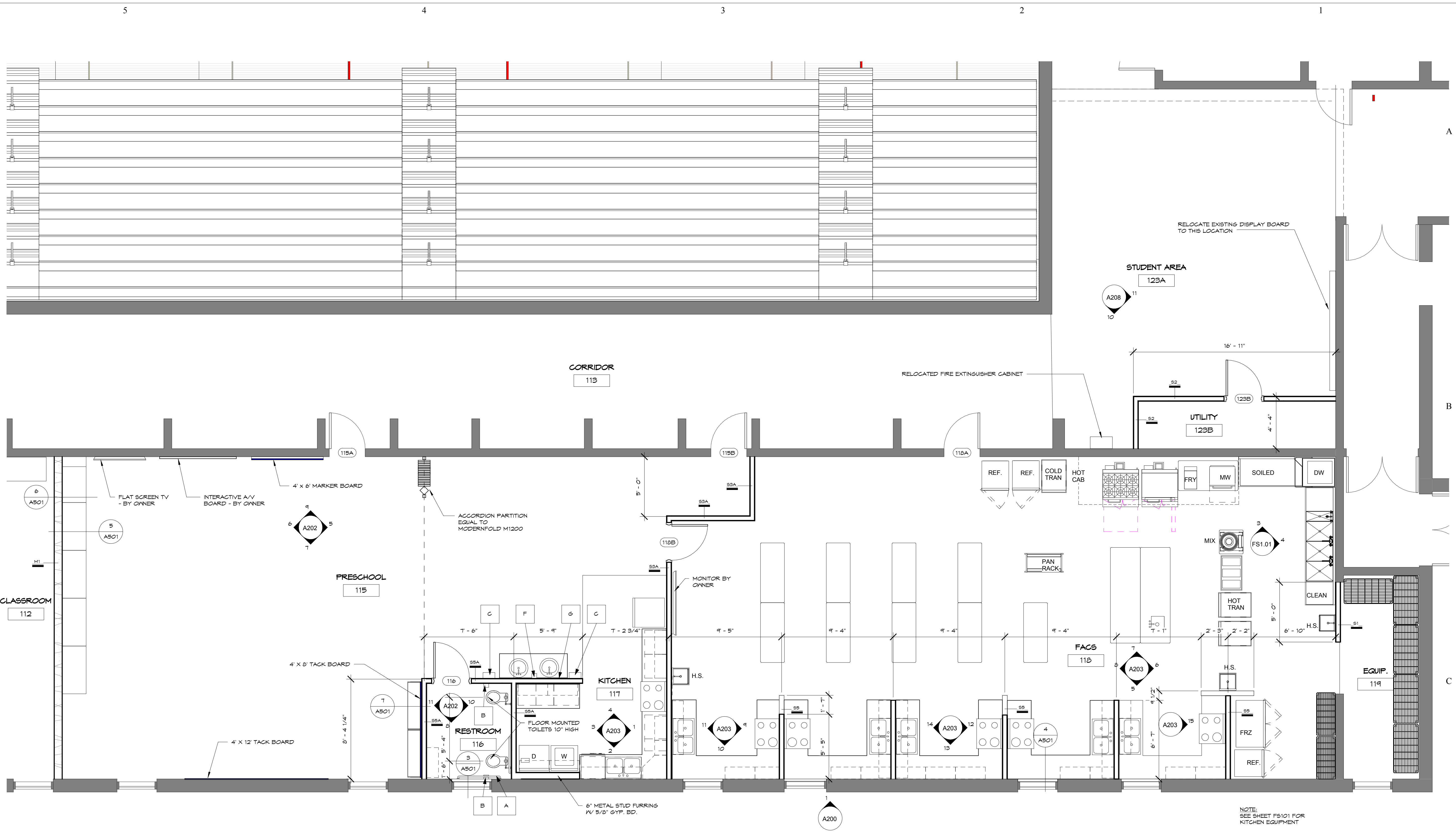
PRICING SET
NOT FOR CONSTRUCTION

Project Number: 16036
Date: Issue Date

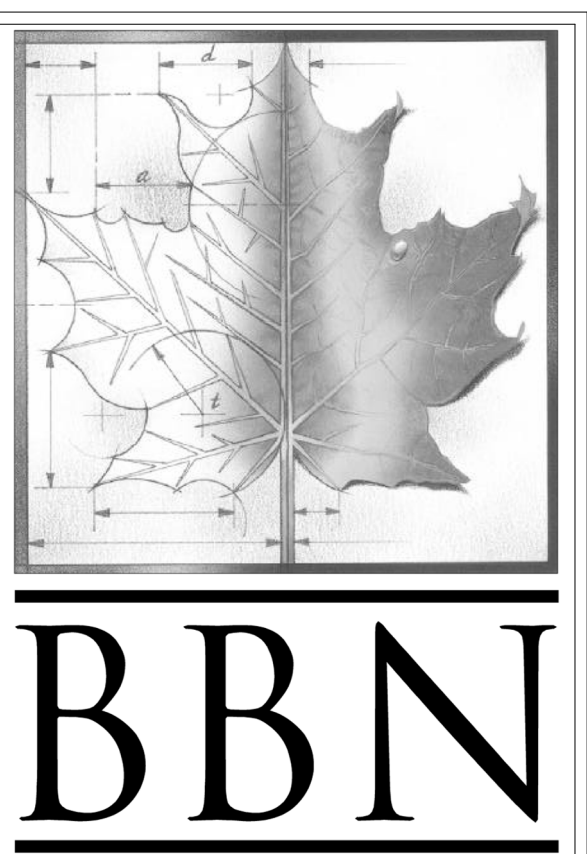
Project Name:
USD 320 WAMEGO HIGH SCHOOL IMPROVEMENTS
Project Address:
801 LICNOLN AVENUE
WAMEGO, KS 66547

Sheet Title:
NEW LOCKER ROOMS

Sheet:
A104
OF:



1 LEVEL 1 - FACS
A105 1/4" = 1'-0"



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- TOILET ACCESSORIES KEY**
- A GRAB BARS - 36" AND 42" - BY OWNER
 - B TOILET TISSUE DISPENSER - BY OWNER
 - C PAPER TOWEL DISPENSER - BY OWNER
 - D 24" X 60" ANGLE FRAME MIRROR
 - E 18" X 30" ANGLE FRAME MIRROR
 - F SOAP DISPENSER - BY OWNER
 - G 5'-0" X 5'-0" PLATE MIRROR

REV	DESC	DATE
PRICING SET NOT FOR CONSTRUCTION		

Project Number: **16036**
Date: **Issue Date**

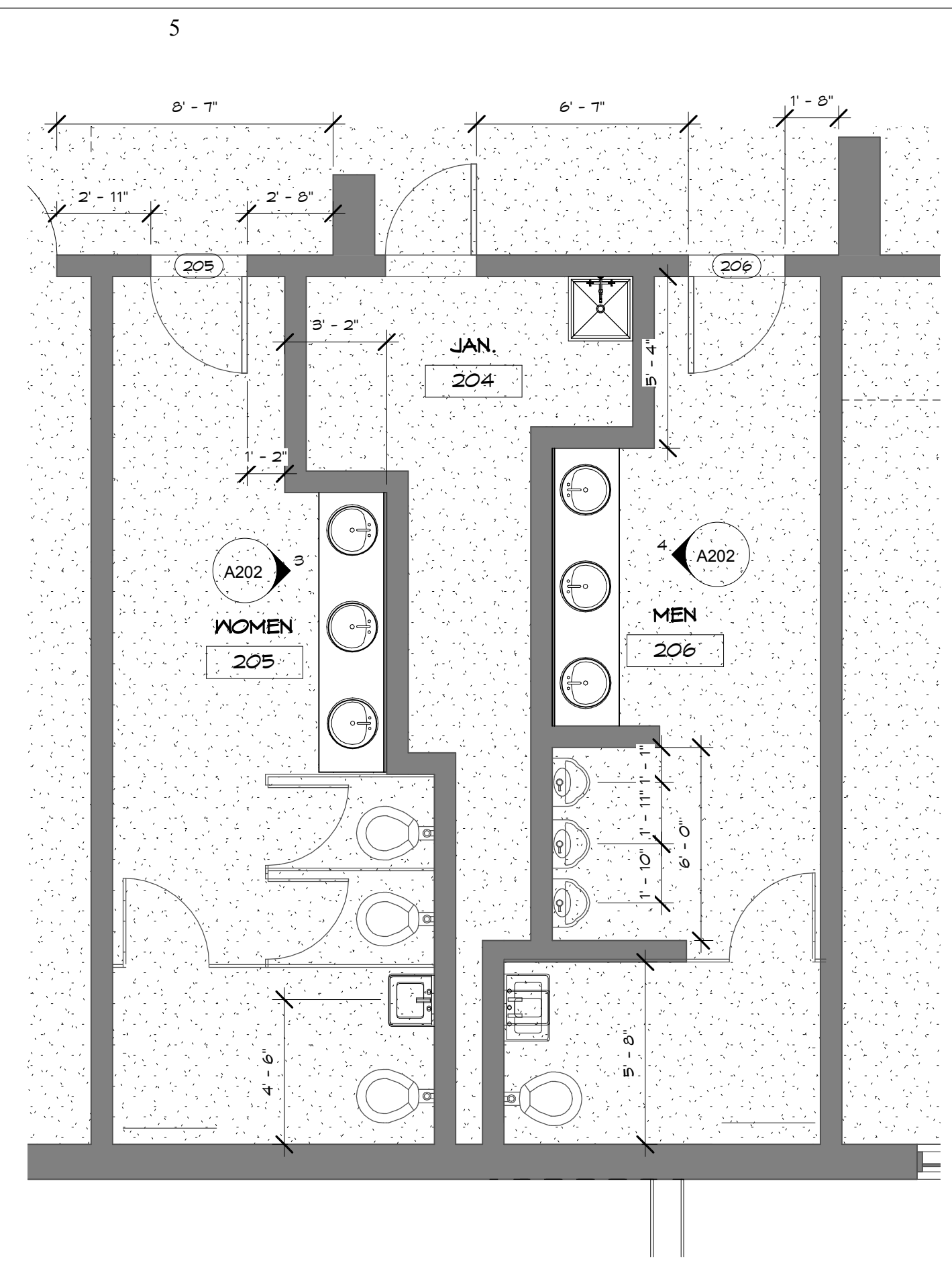
Project Name:
USD 320 WAMEGO HIGH SCHOOL IMPROVEMENTS

Project Address:
**801 LICNOLN AVENUE
WAMEGO, KS 66547**

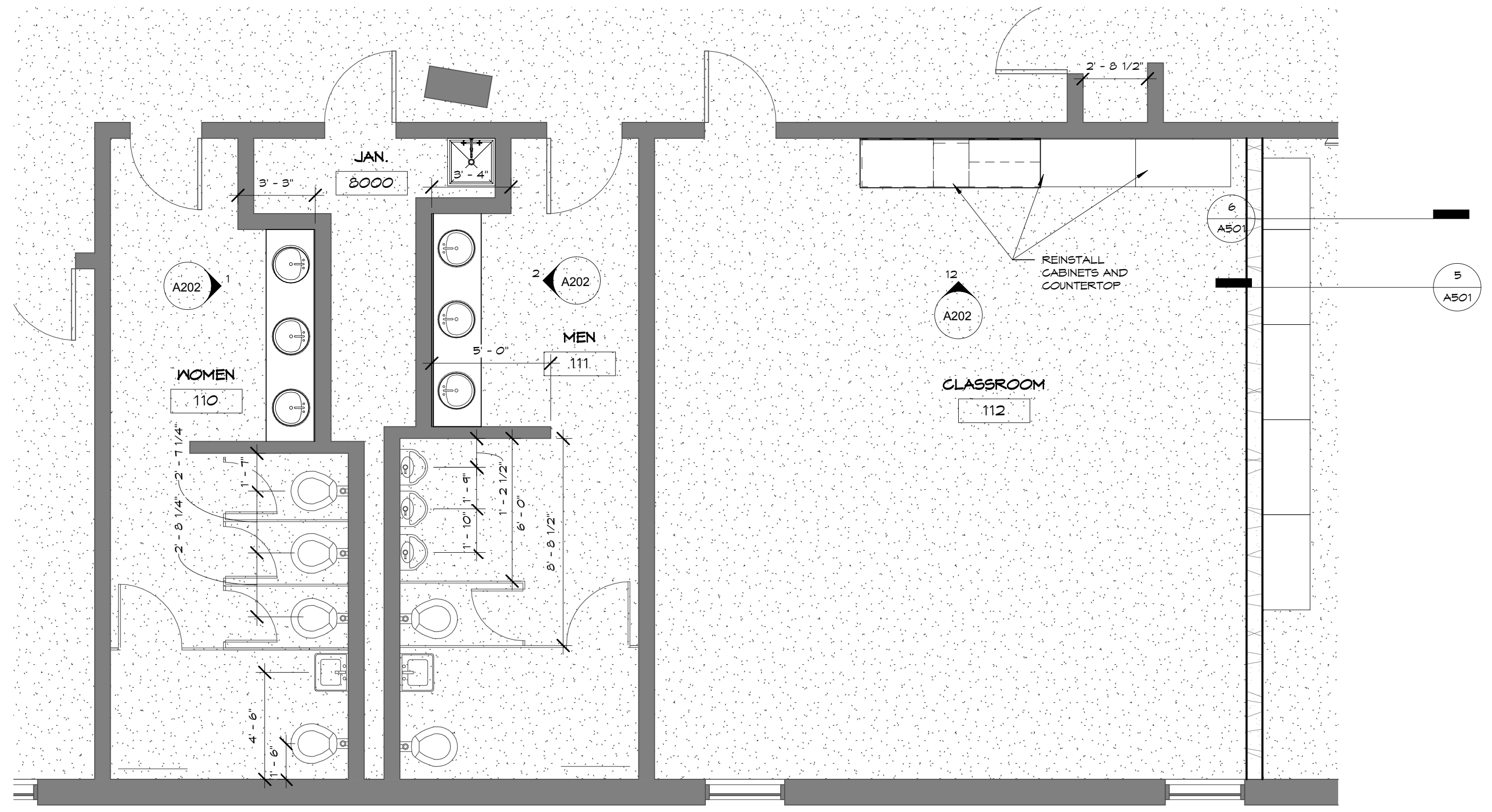
Sheet Title:
FACS FIRST FLOOR

Sheet:
A105

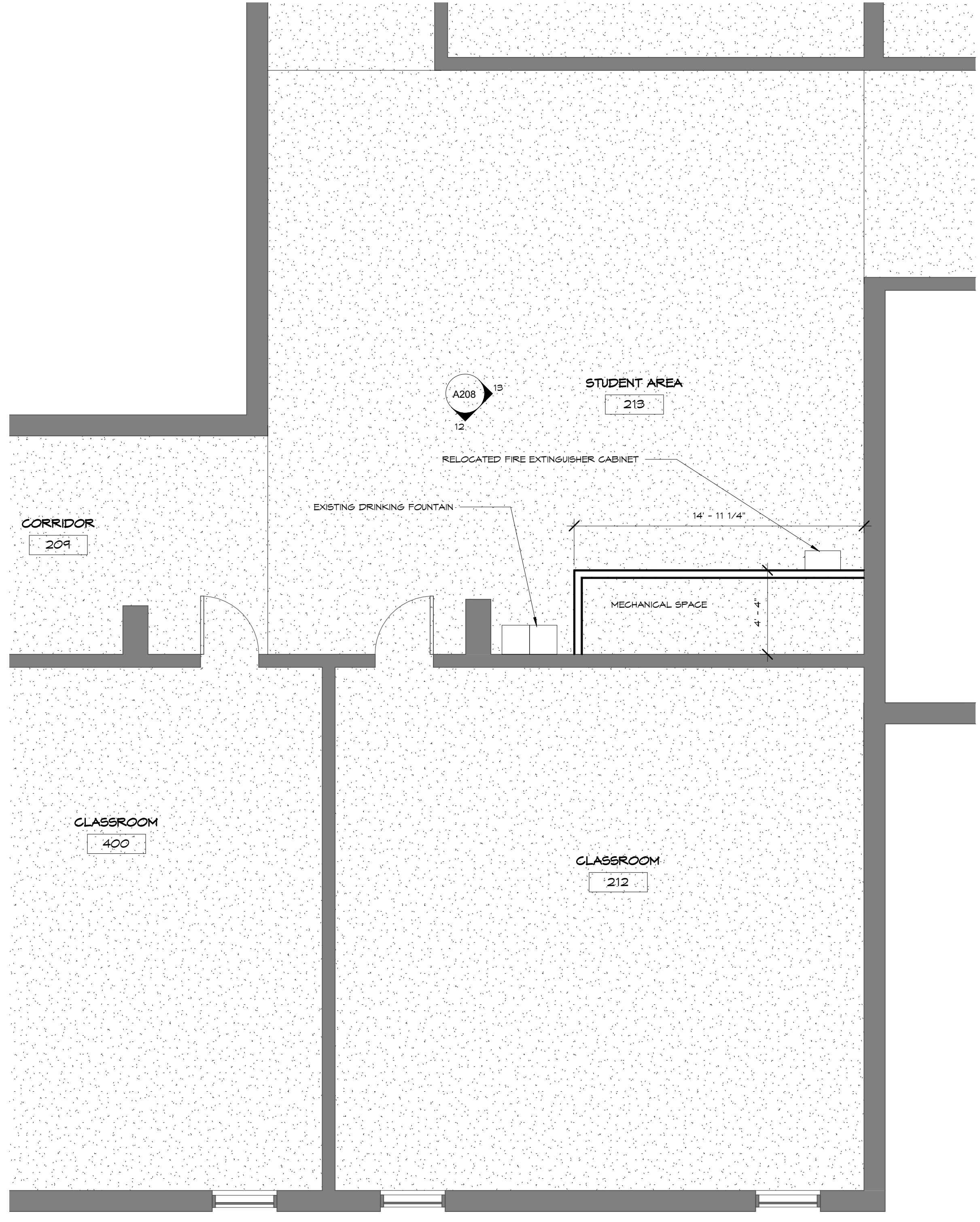
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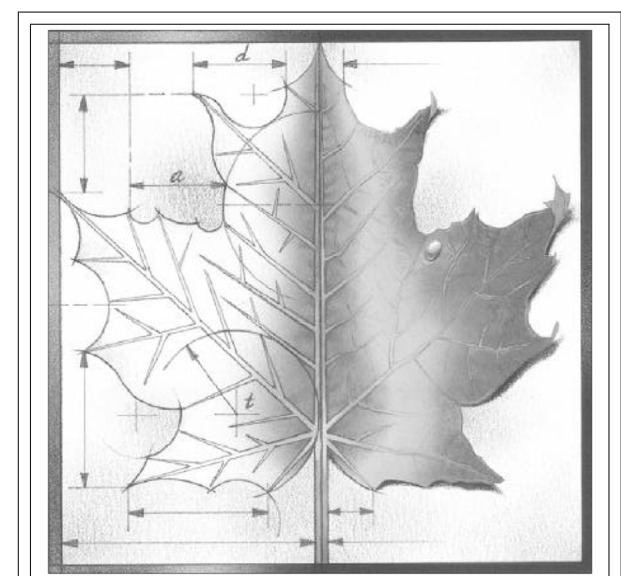
3 LEVEL 2 - RESTROOMS
A106 1/4" = 1'-0"



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



1 LEVEL 2 - STUDENT AREA
A106 1/4" = 1'-0"



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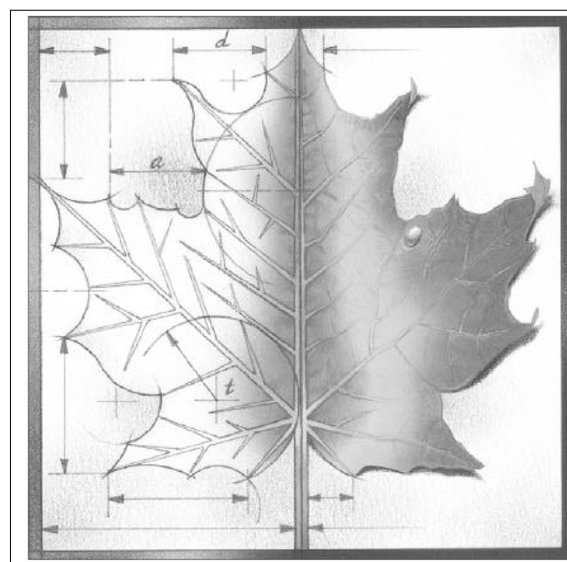
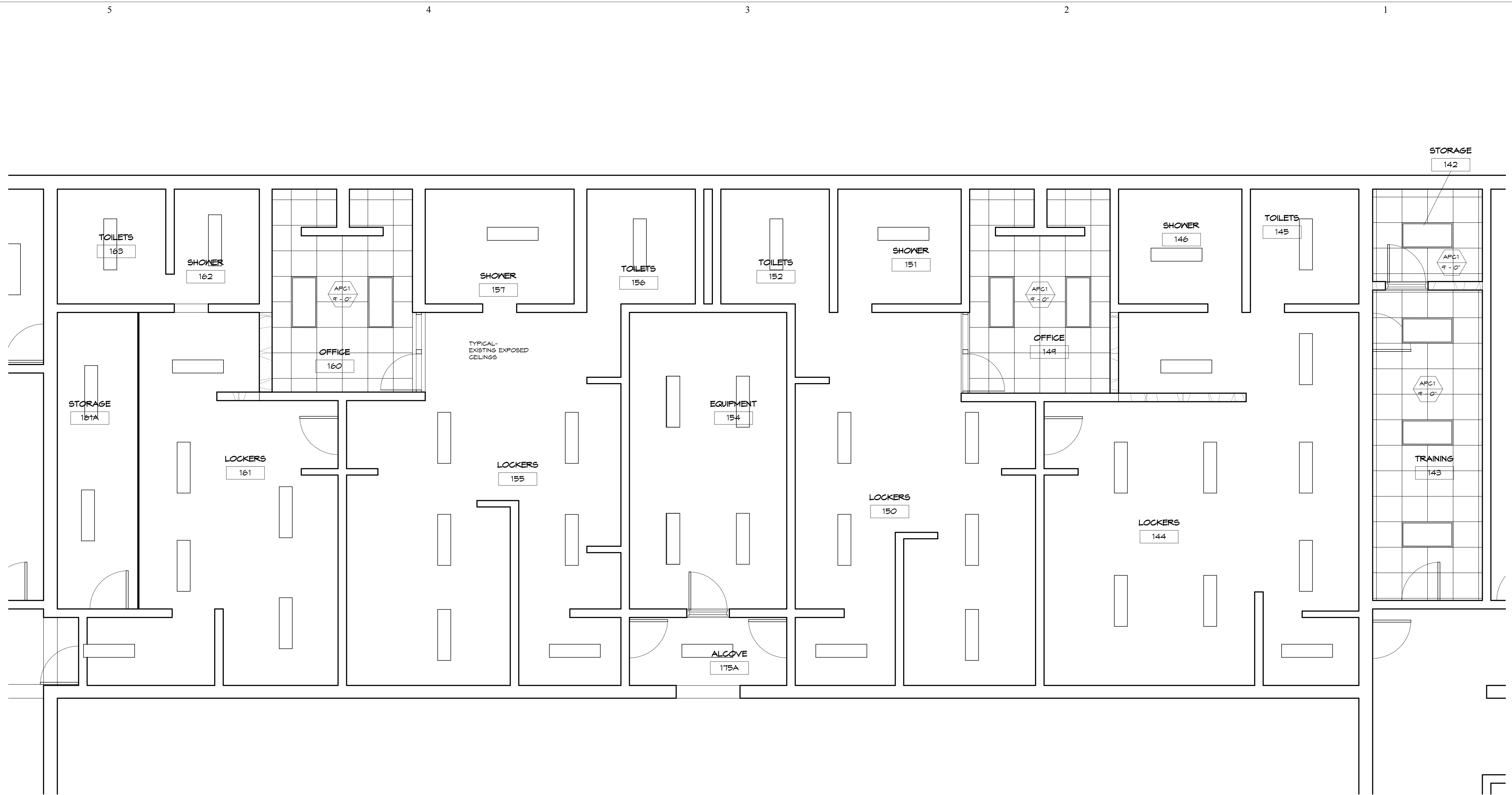
Project Address:
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Sheet Title:

FACS SECOND FLOOR

Sheet: **A106**

OF:



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Project Address:
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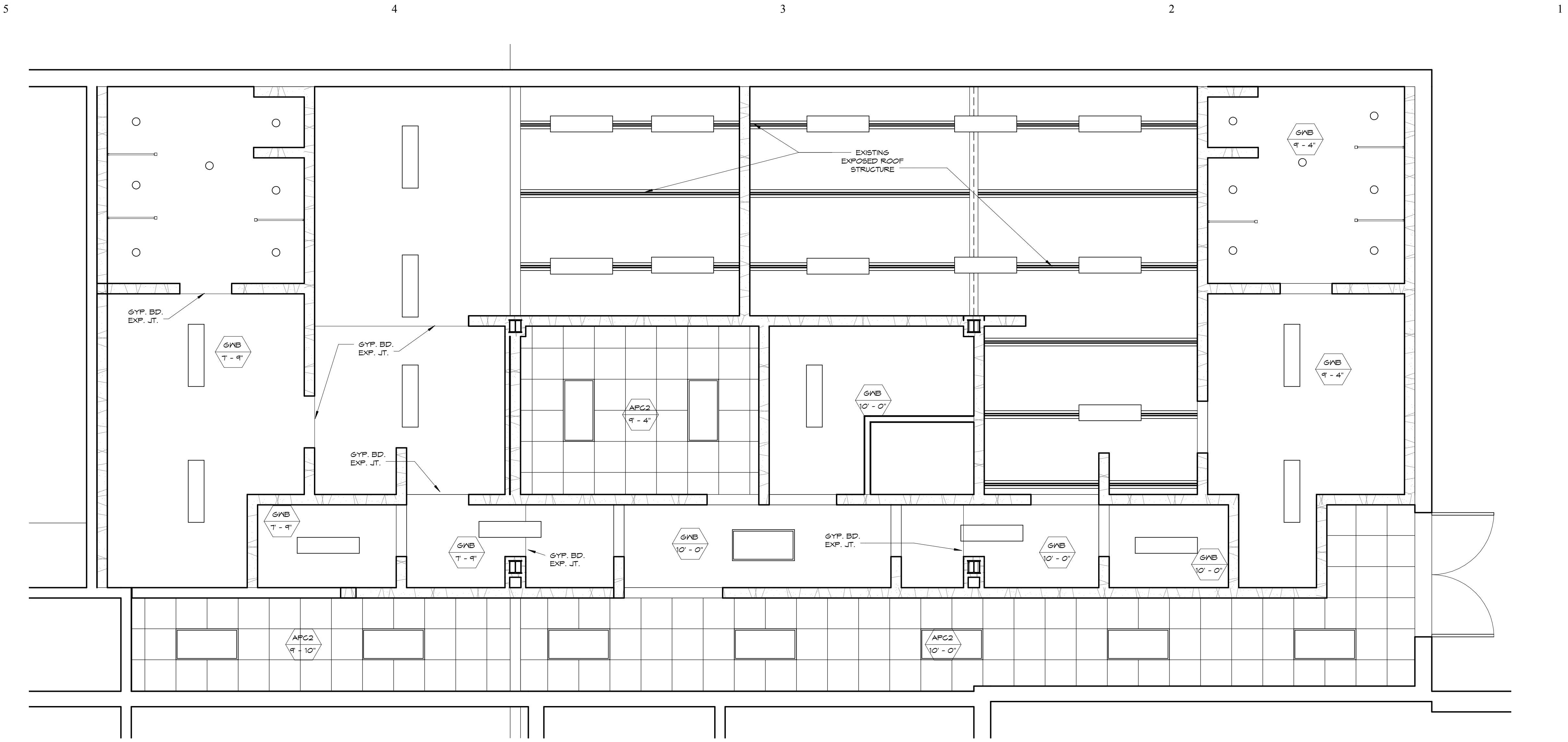
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**CEILING PLAN
 EXISTING
 LOCKERS**

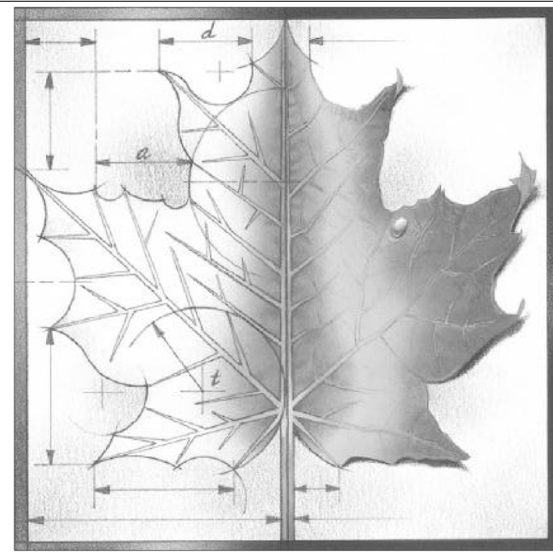
Sheet: **A120**

OF:

1
 A120 EXISTING LOCKER ROOMS CEILING PLAN
 1/4" = 1'-0"



1 NEW LOCKER ROOMS CEILING PLAN
 A121 1/4" = 1'-0"

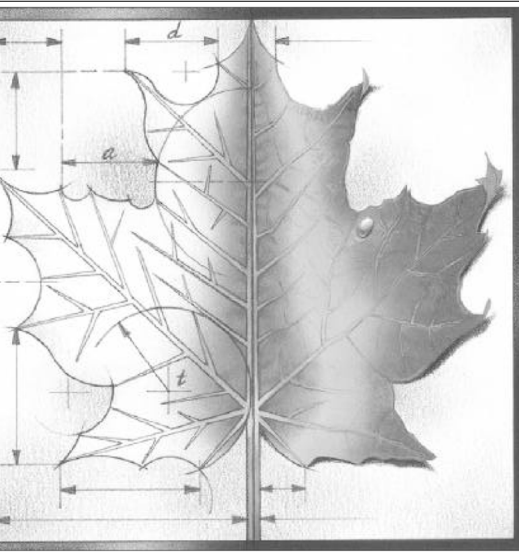


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PRICING SET NOT FOR CONSTRUCTION		
Project Number:		16036
Date:		Issue Date
Project Name:		
USD 320 WAMEGO HIGH SCHOOL IMPROVEMENTS		
Project Address:		
801 LICNOLN AVENUE WAMEGO, KS 66547		
Sheet Title:		
CEILING PLAN NEW LOCKER ROOMS		
Sheet:		A121
OF:		



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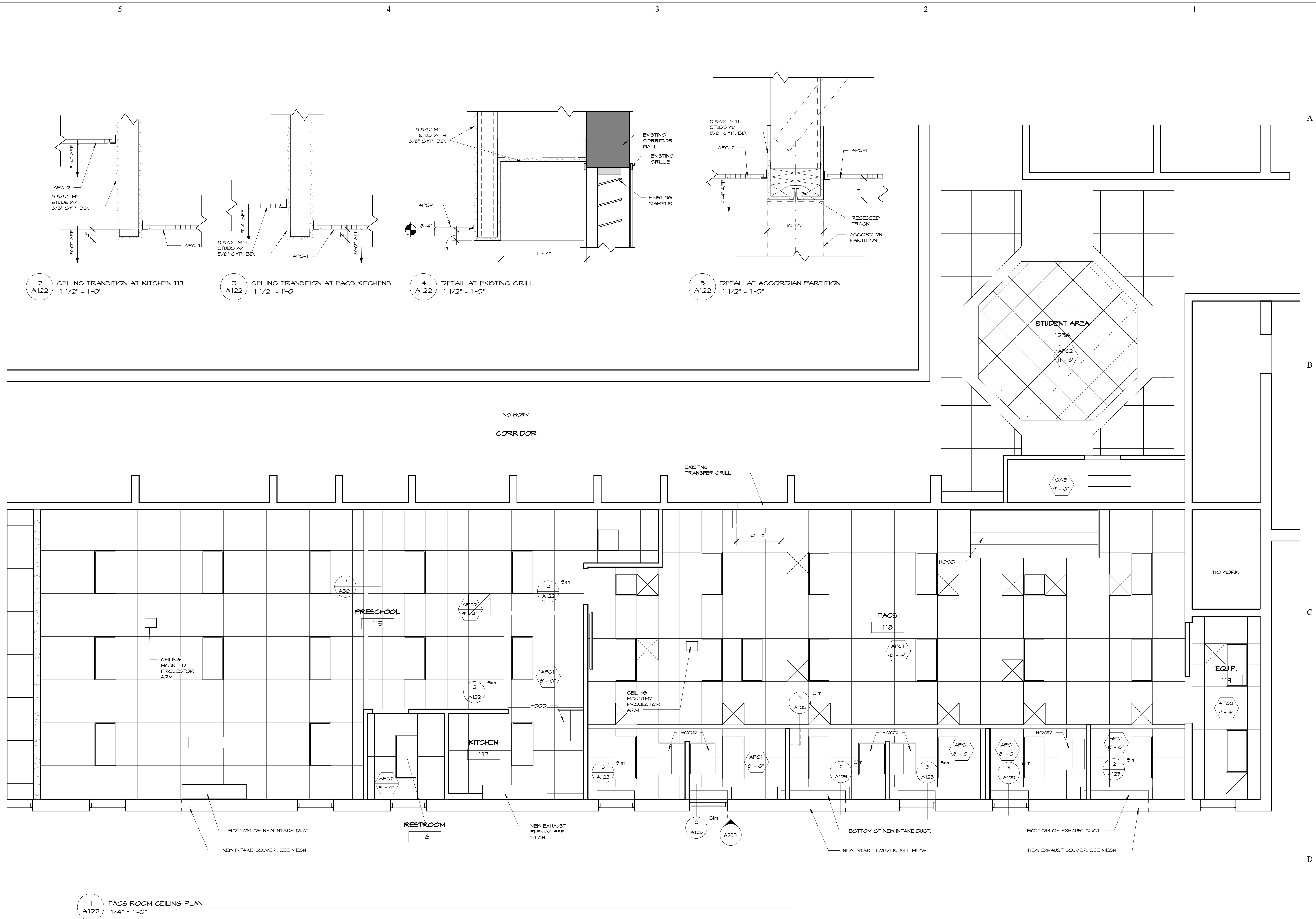
Project Name:
USD 320 WAMEGO HIGH SCHOOL IMPROVEMENTS

Project Address:
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Sheet Title:
**CEILING PLAN
 FACS ROOM**

Sheet:
A122

OF:



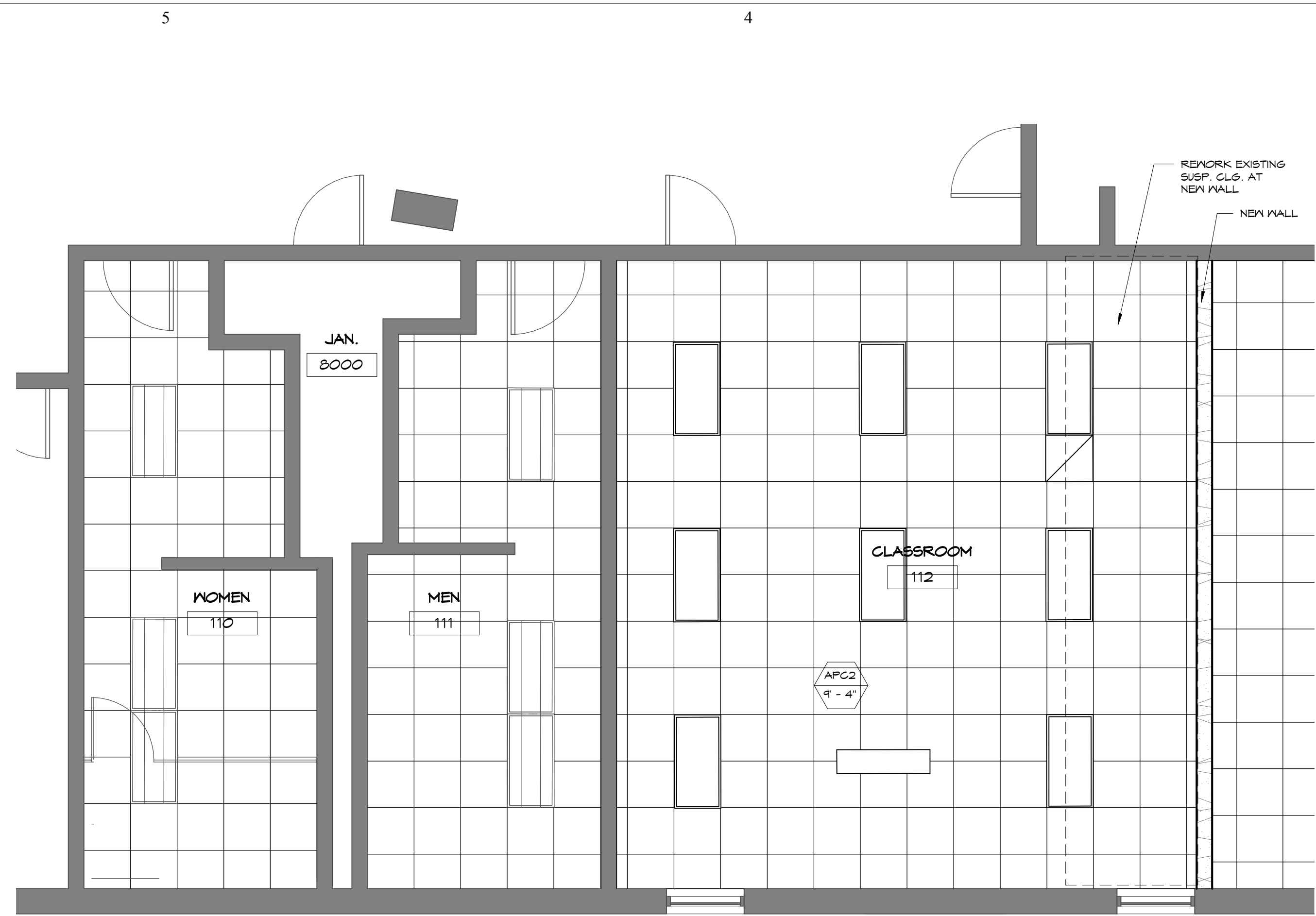
2 A122 CEILING TRANSITION AT KITCHEN 117
 1 1/2" = 1'-0"

3 A122 CEILING TRANSITION AT FACS KITCHENS
 1 1/2" = 1'-0"

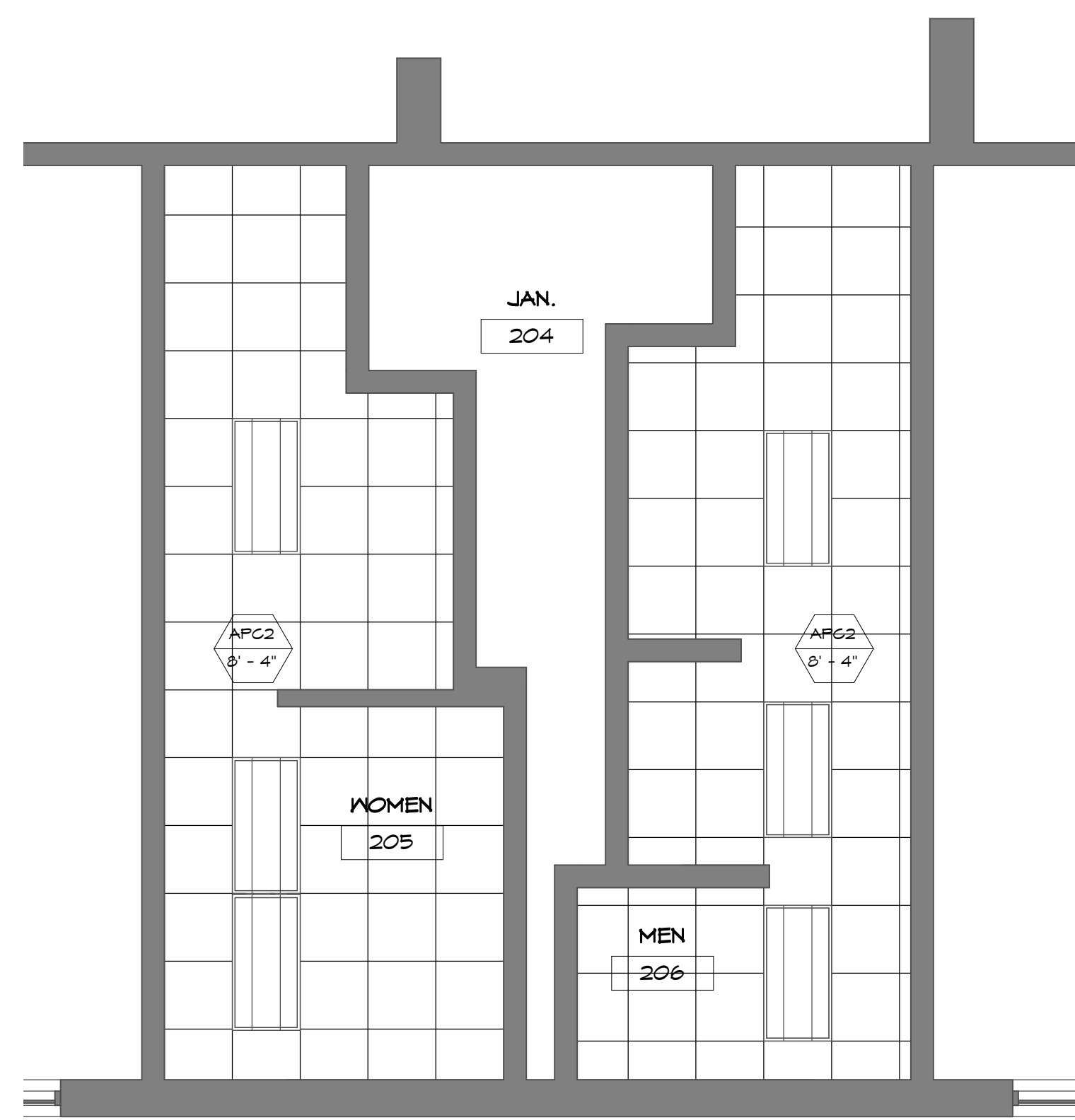
4 A122 DETAIL AT EXISTING GRILL
 1 1/2" = 1'-0"

5 A122 DETAIL AT ACCORDIAN PARTITION
 1 1/2" = 1'-0"

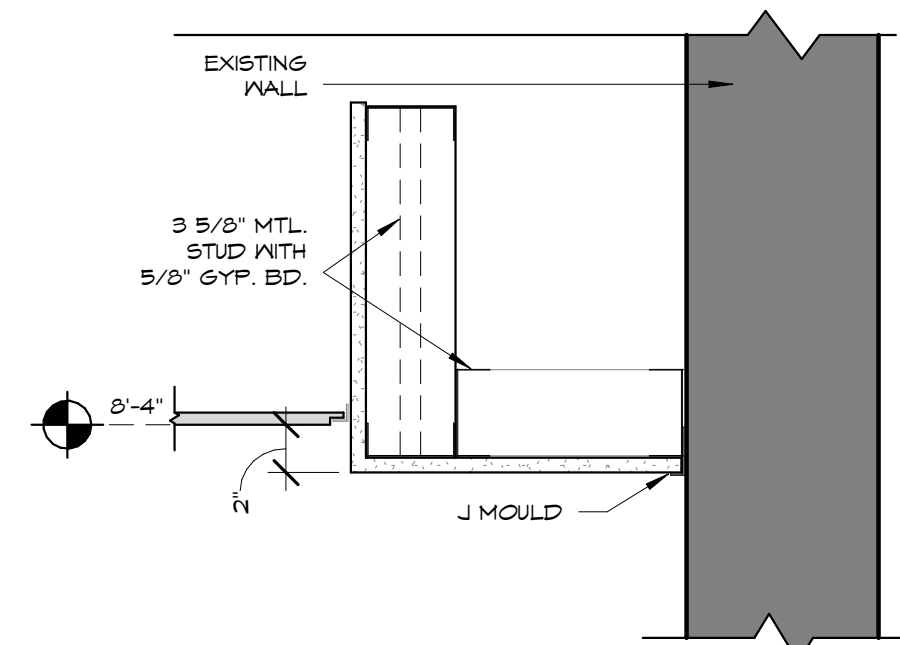
1 A122 FACS ROOM CEILING PLAN
 1/4" = 1'-0"



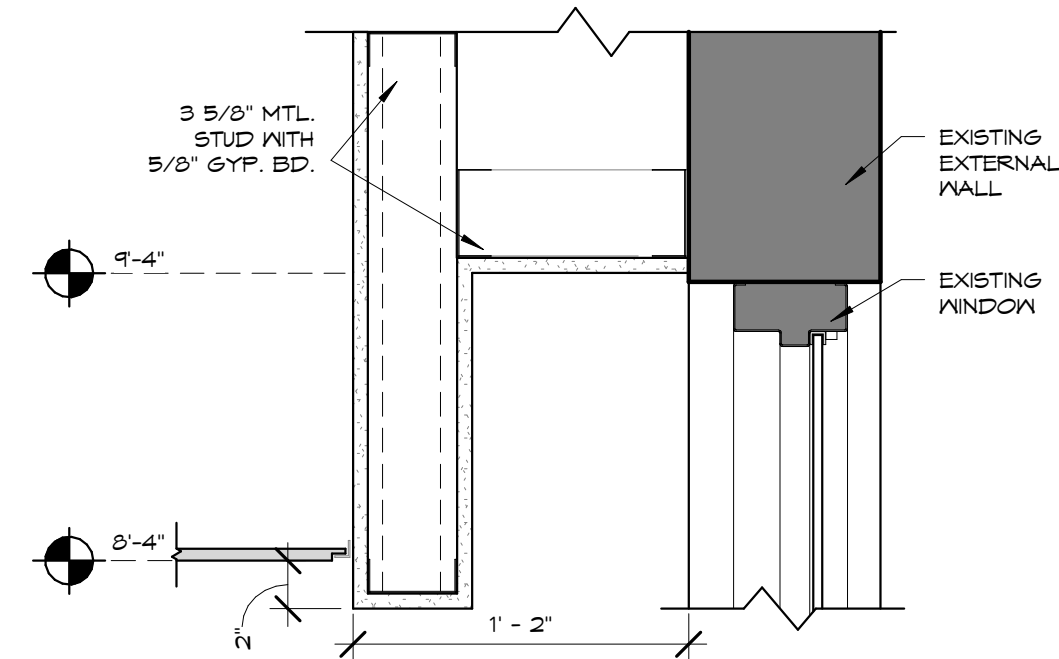
1
A123
FIRST FLOOR RESTROOMS/CLASSROOM
CEILING PLAN
1/4" = 1'-0"



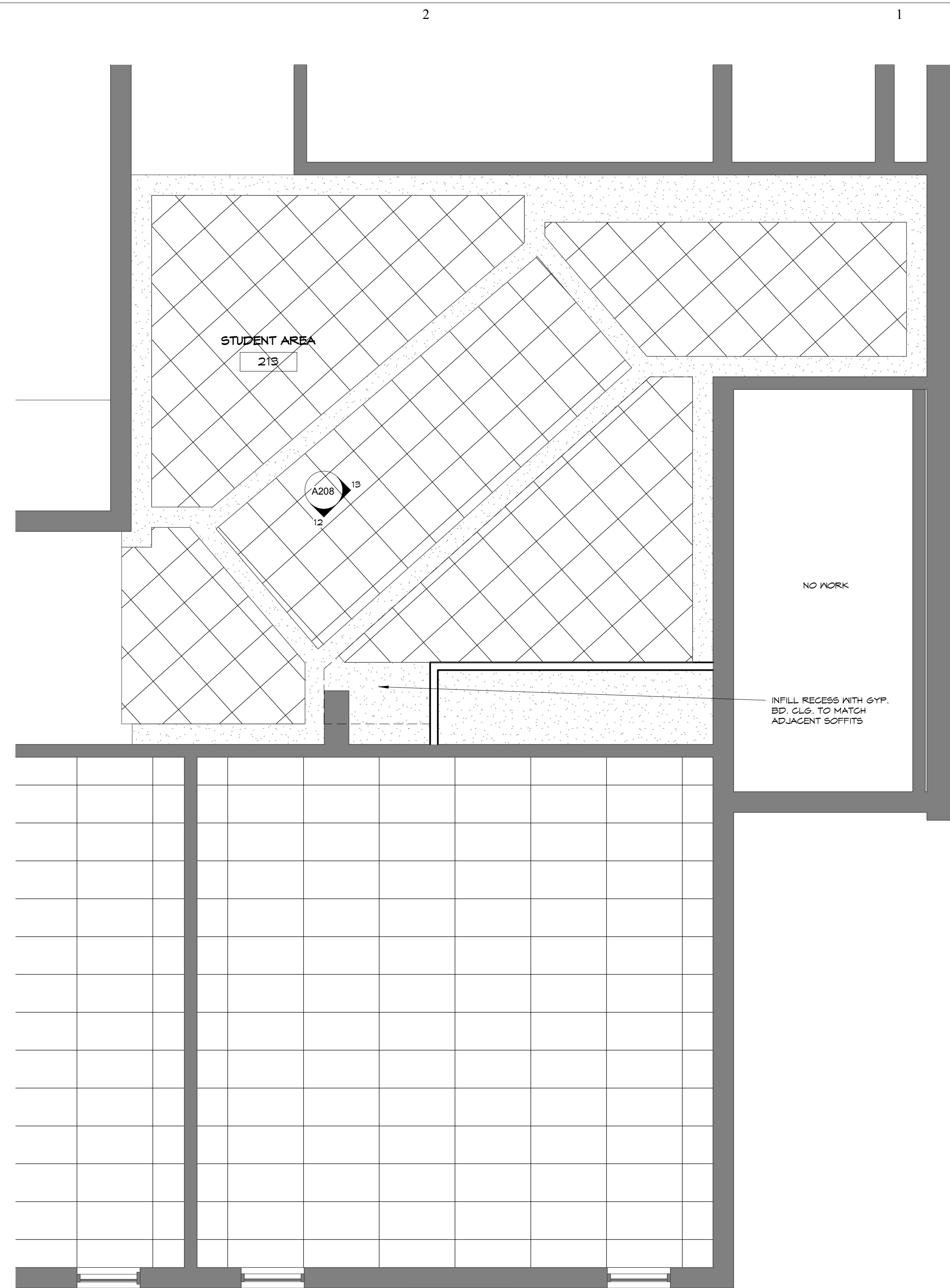
4
A123
SECOND FLOOR RESTROOM CEILING
PLAN
1/4" = 1'-0"



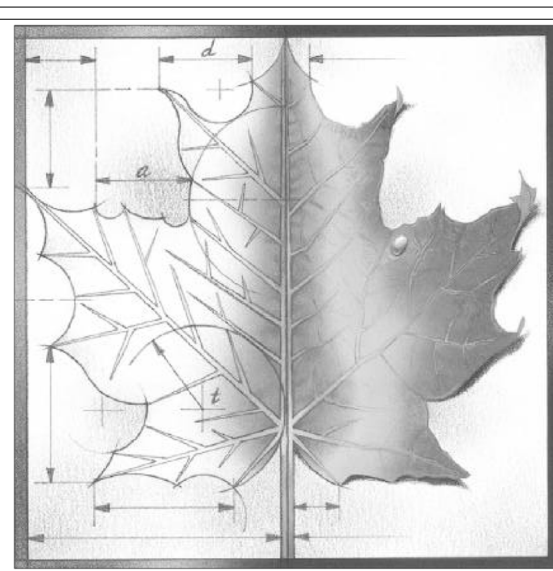
2
A123
SOFFIT DETAIL
1 1/2" = 1'-0"



3
A123
DETAIL C - WINDOW POCKET
1 1/2" = 1'-0"



6
A123
PARTIAL SECOND FLOOR CEILING
PLAN
1/4" = 1'-0"



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NOT FOR CONSTRUCTION

Project Number: 16036

Date: Issue Date

Project Name:

USD 320 WAMEGO HIGH SCHOOL
IMPROVEMENTS

Project Address:
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WAMEGO, KS 66547

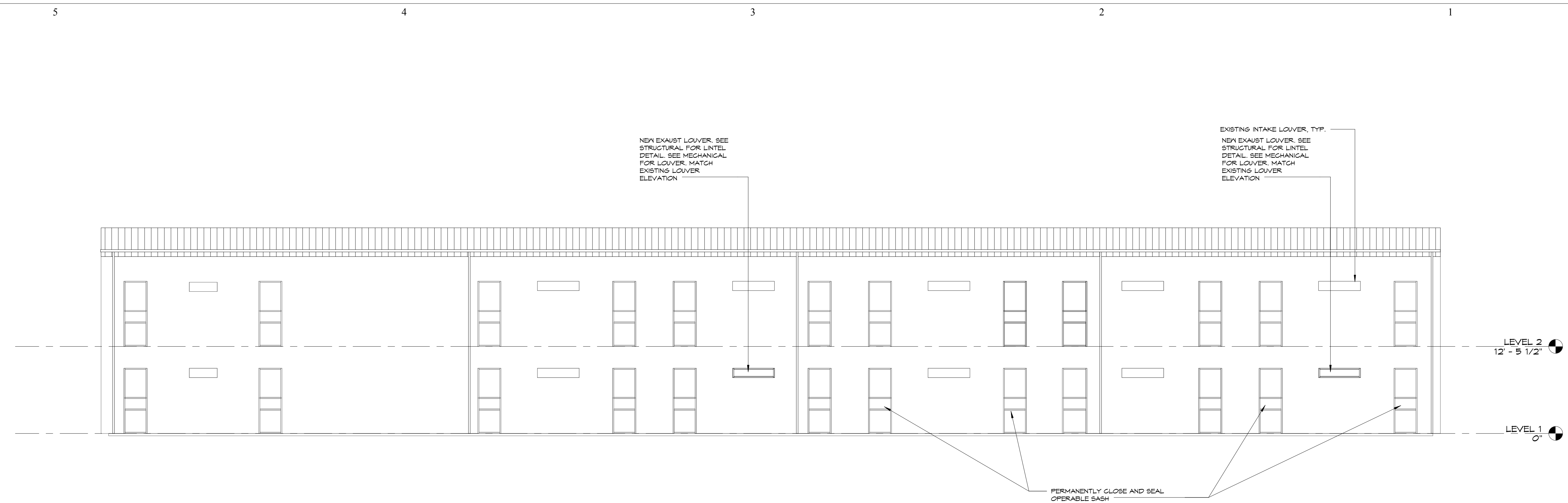
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**REFLECTED
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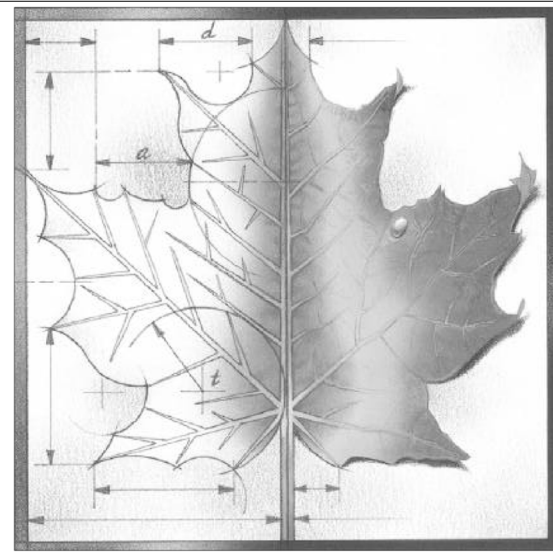
Sheet:

A123

Of:



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



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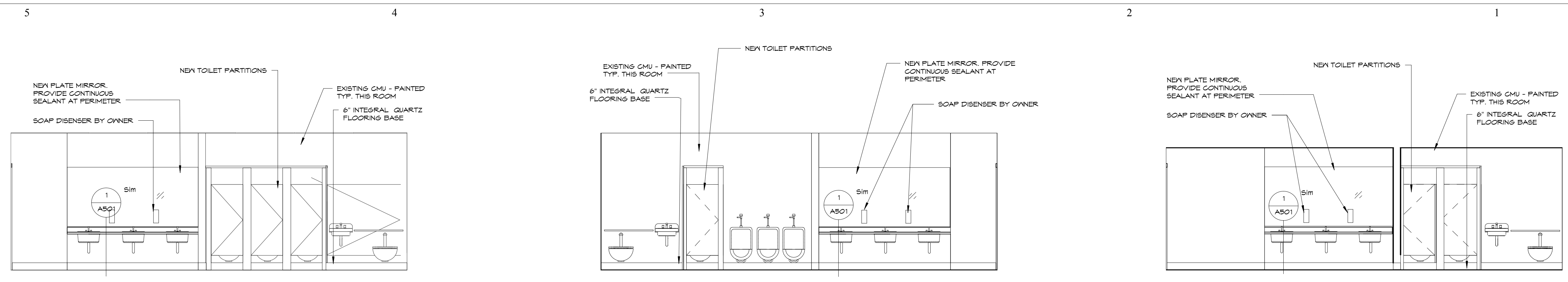
Project Address:
 801 LICNOLN AVENUE
 WAMEGO, KS 66547

Sheet Title:

**EXTERIOR
 ELEVATIONS**

Sheet: **A200**

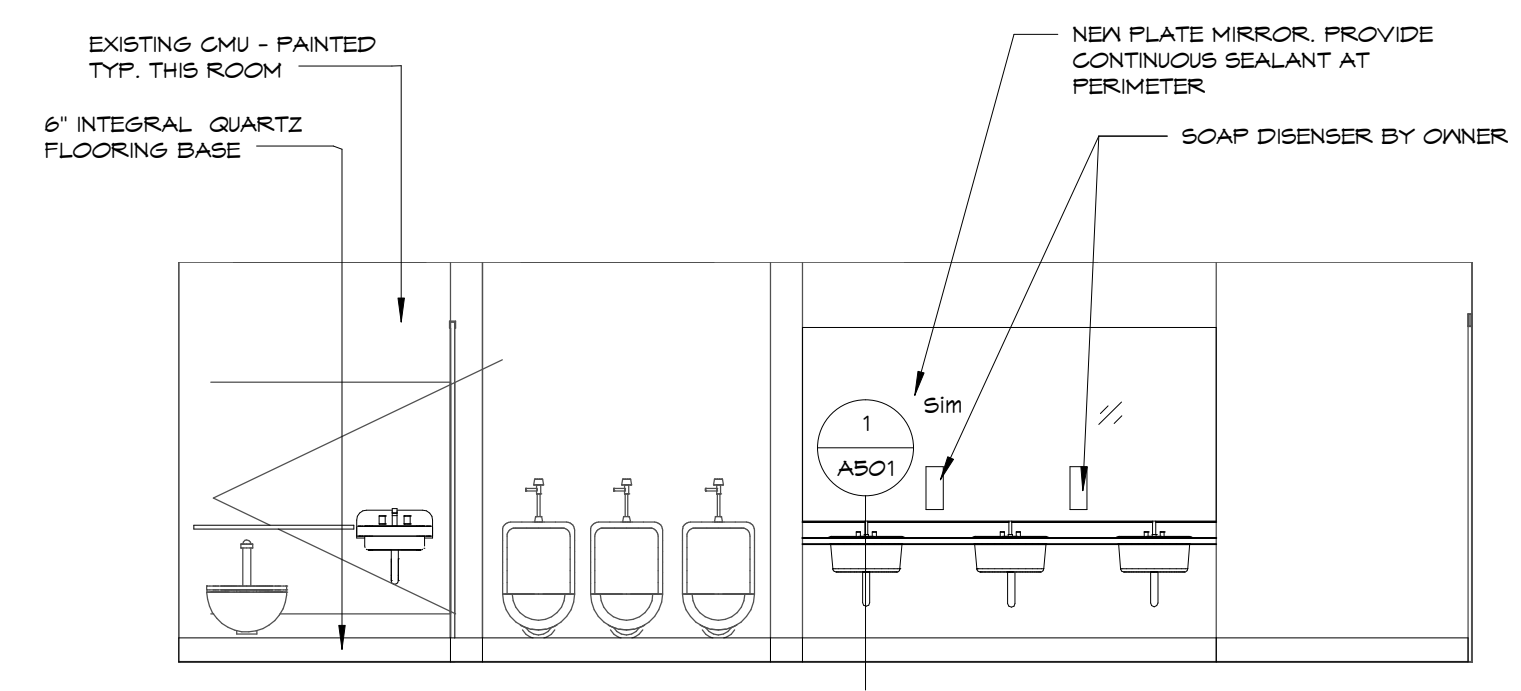
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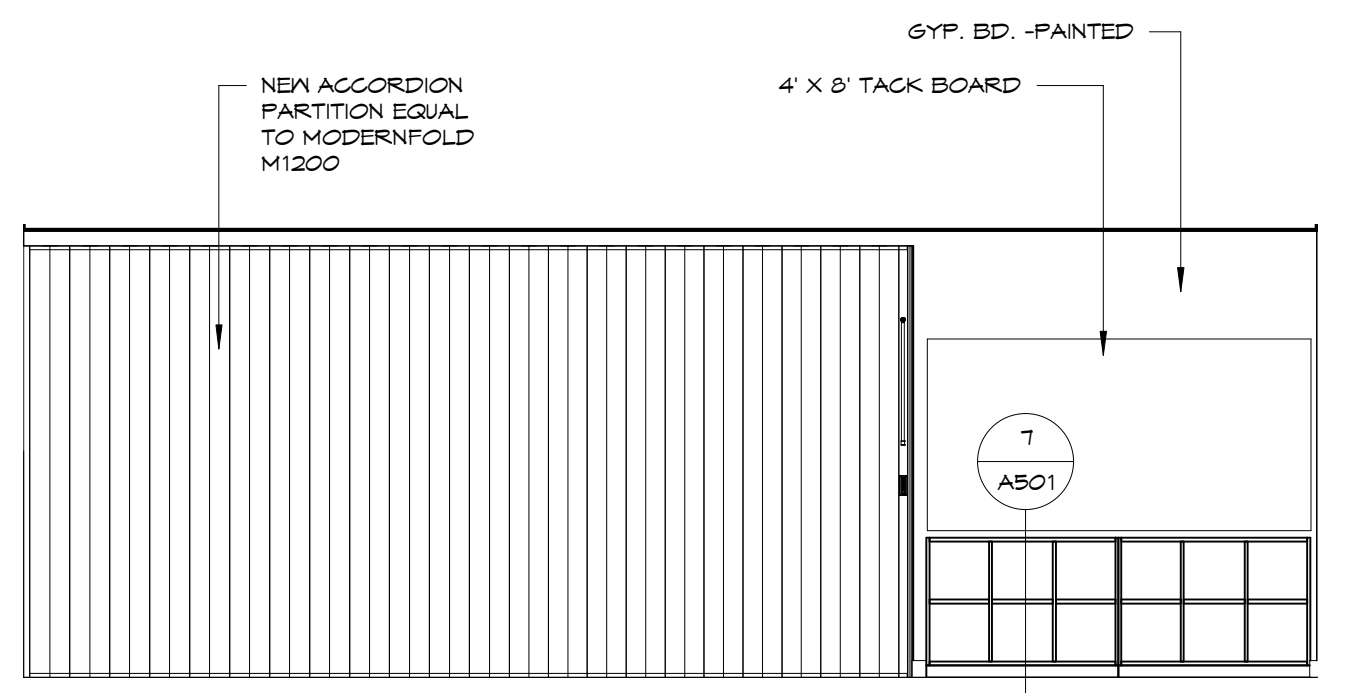
1 110 WOMEN - NORTH WALL
A202 1/4" = 1'-0"

2 111 MEN - SOUTH WALL
A202 1/4" = 1'-0"

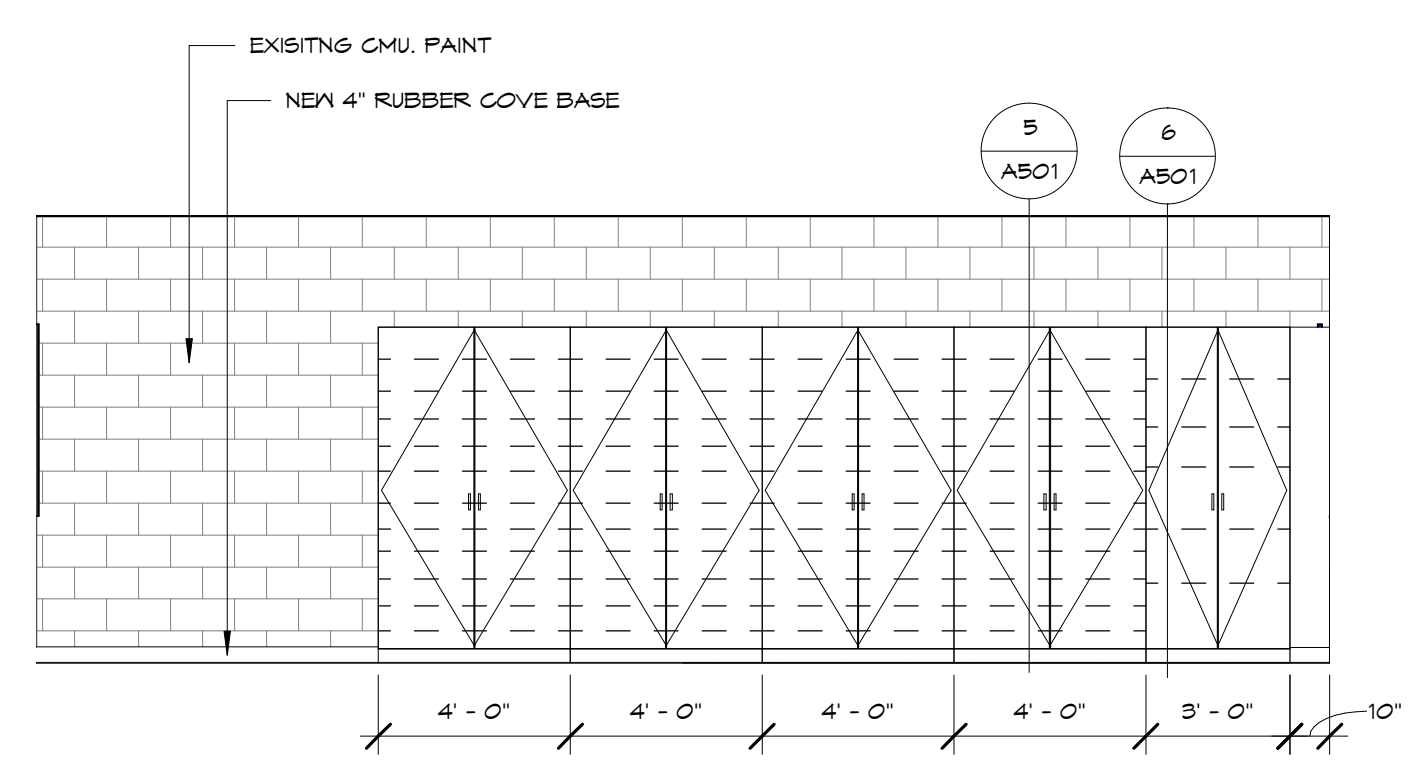
3 205 WOMEN - NORTH WALL
A202 1/4" = 1'-0"



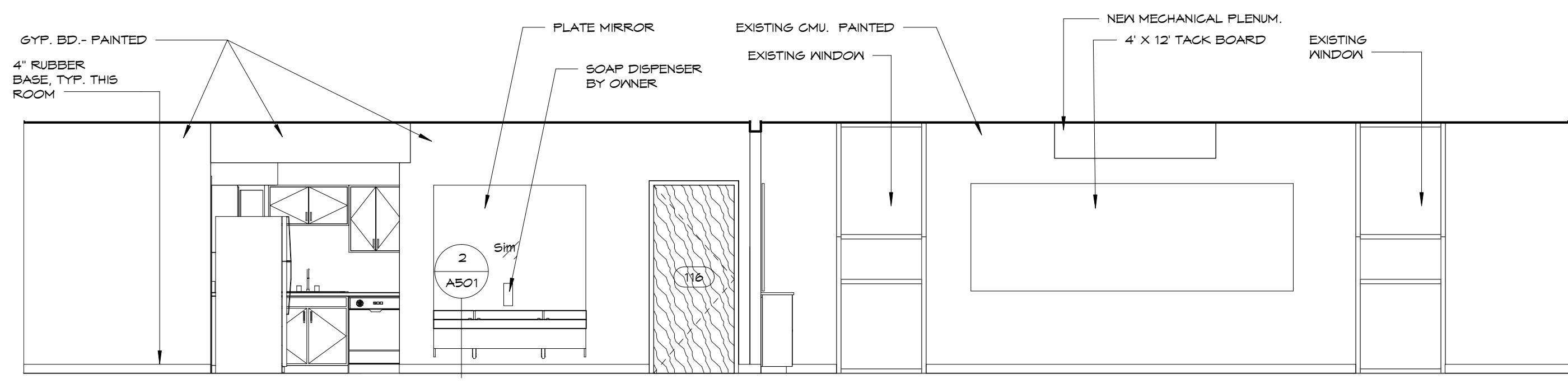
4 206 MEN - SOUTH WALL
A202 1/4" = 1'-0"



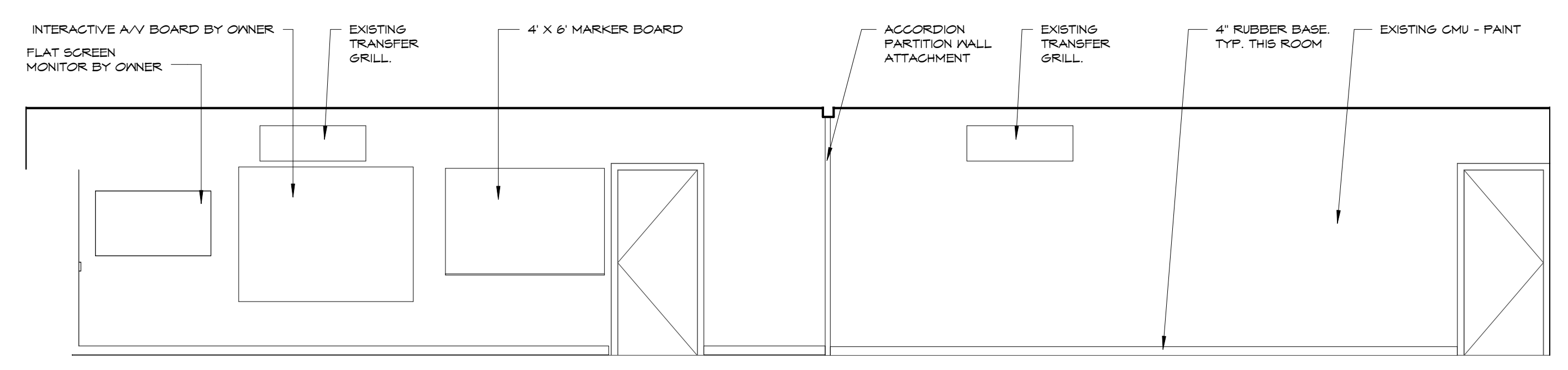
5 115 PRESCHOOL - NORTH WALL
A202 1/4" = 1'-0"



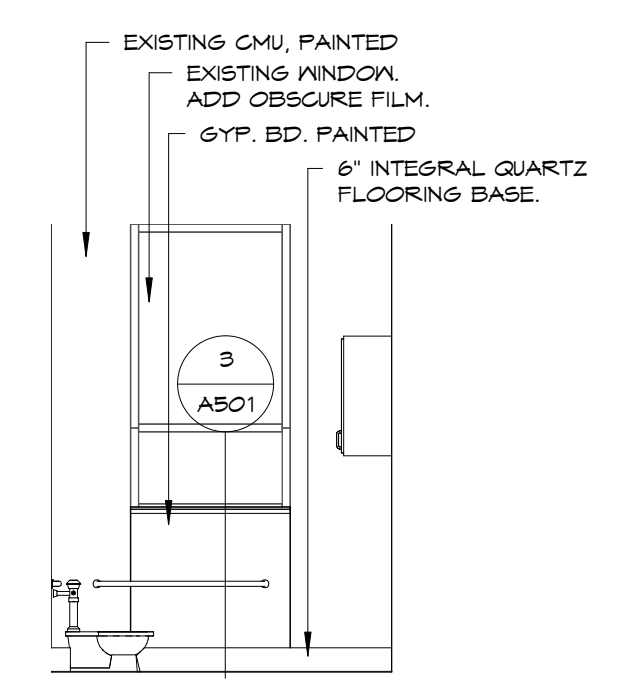
6 115 PRESCHOOL - SOUTH WALL
A202 1/4" = 1'-0"



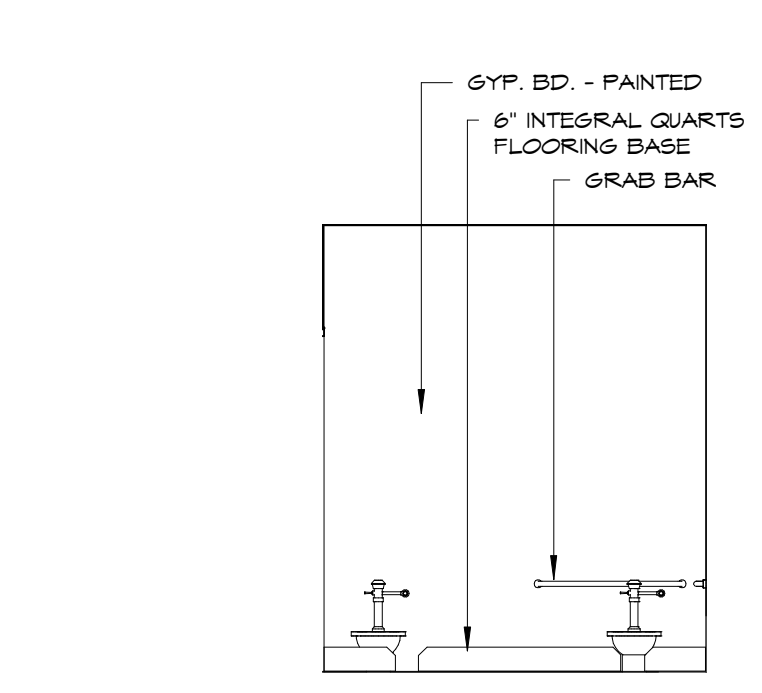
7 115 PRESCHOOL - EAST WALL
A202 1/4" = 1'-0"



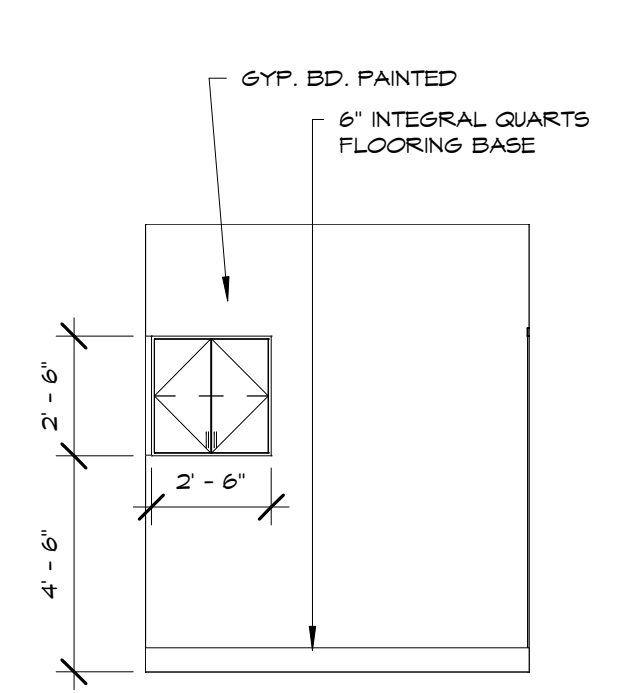
9 115 PRESCHOOL - WEST WALL
A202 1/4" = 1'-0"



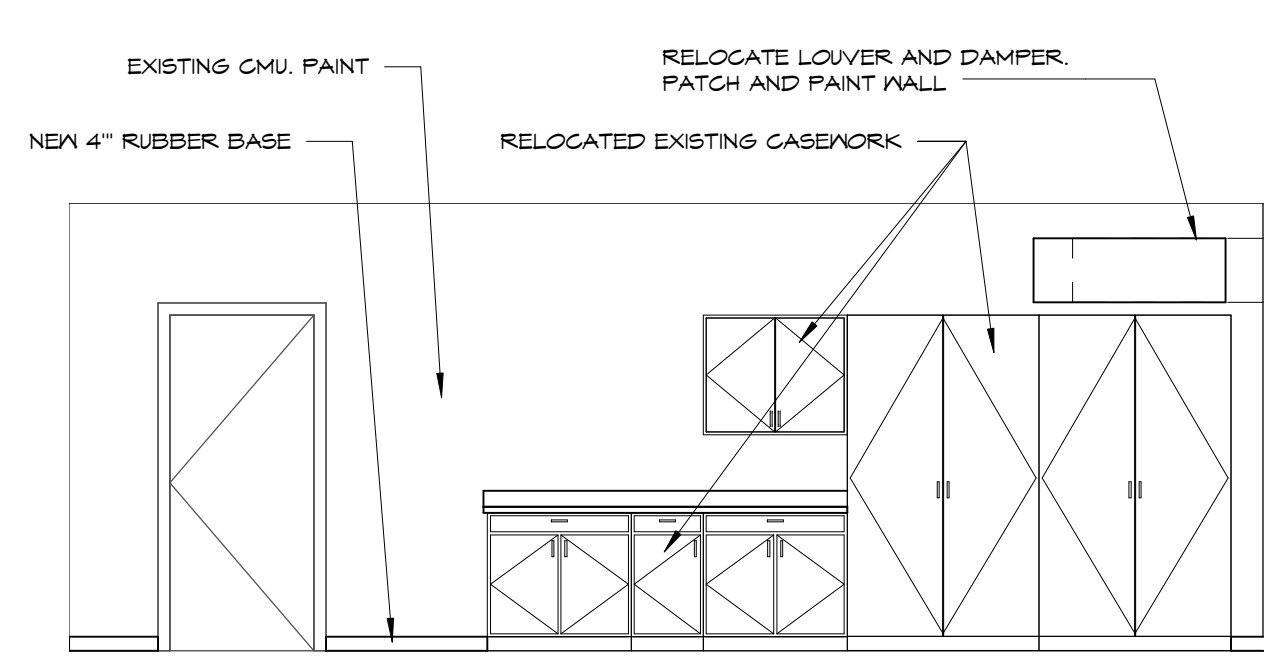
8 116 TOILET - EAST WALL
A202 1/4" = 1'-0"



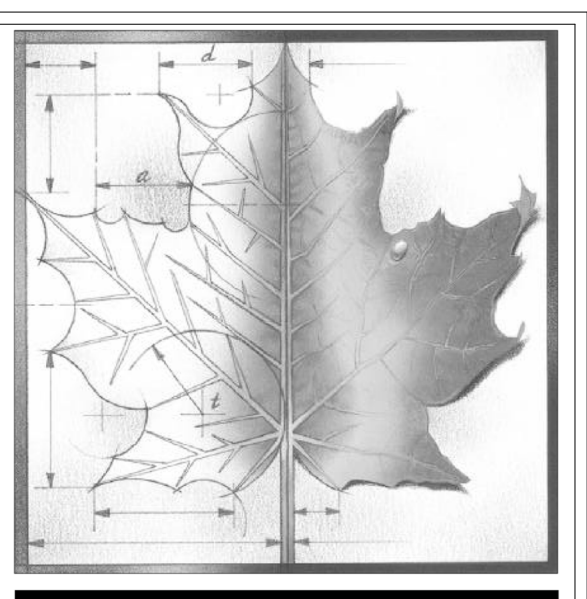
10 116 TOILET - NORTH WALL
A202 1/4" = 1'-0"



11 116 TOILET - SOUTH WALL
A202 1/4" = 1'-0"



12 112 CLASSROOM - WEST WALL
A202 1/4" = 1'-0"



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Project Number: **16036**

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Project Name:

USD 320 WAMEGO HIGH SCHOOL IMPROVEMENTS

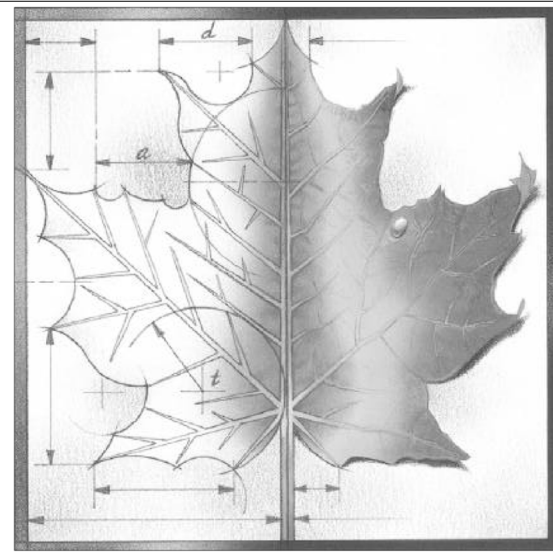
Project Address:
**801 LICNOLN AVENUE
WAMEGO, KS 66547**

Sheet Title:

INTERIOR ELEVATIONS

Sheet: **A202**

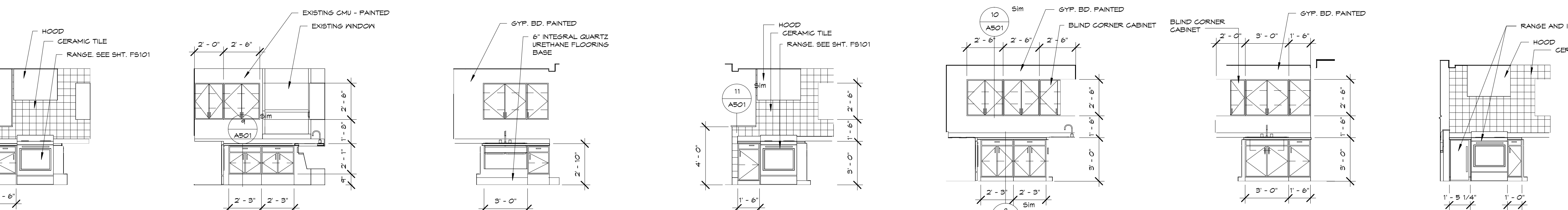
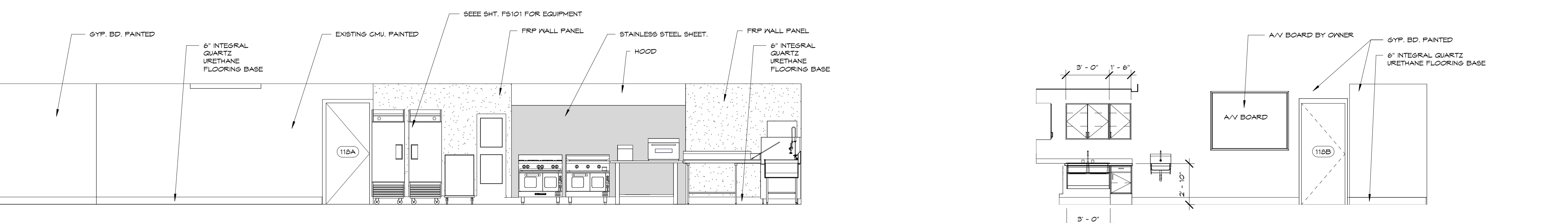
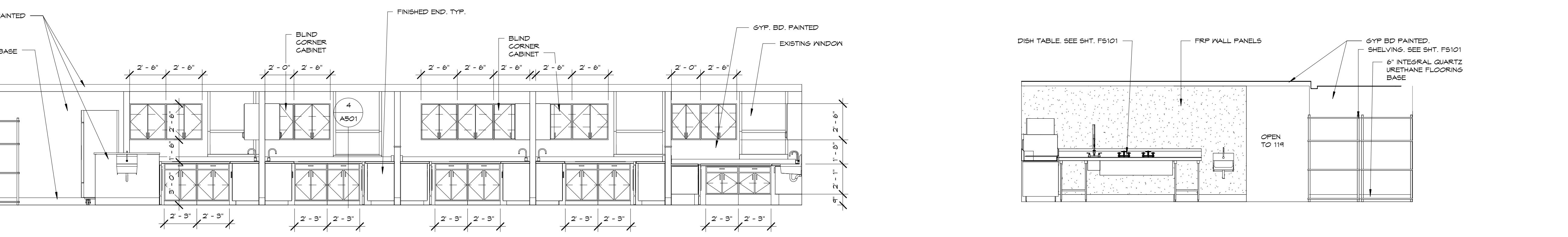
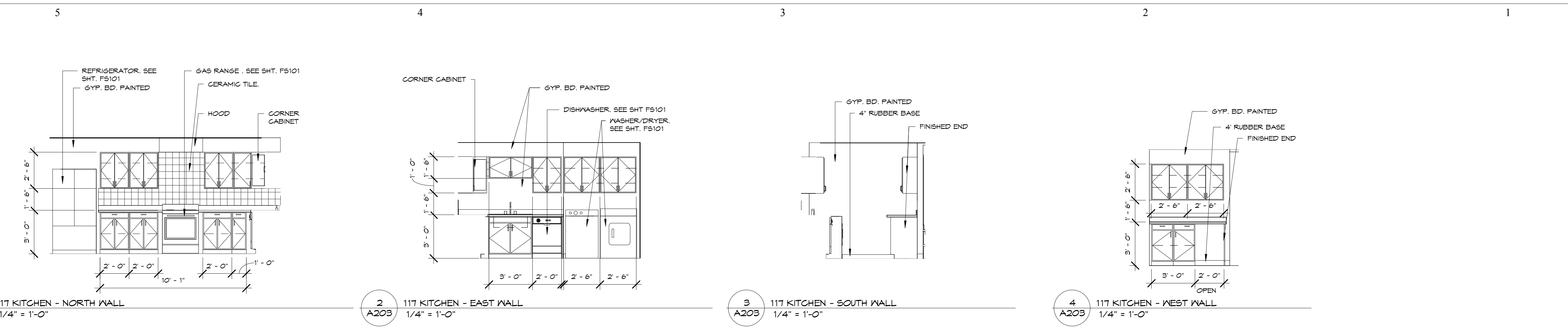
OF:



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REV	DESC	DATE
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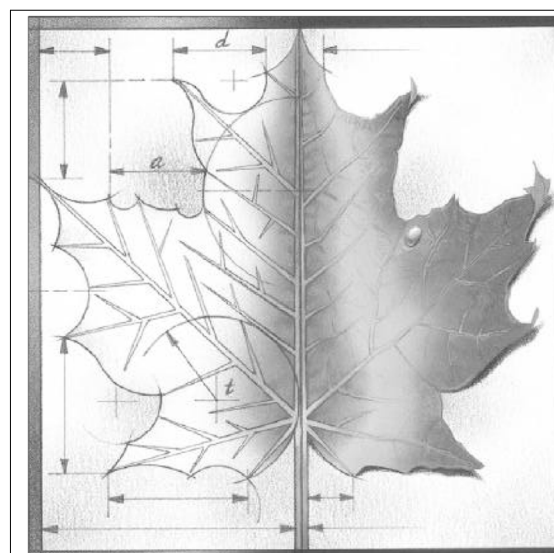
PRICING SET
NOT FOR CONSTRUCTION

Project Number: **16036**
Date: **Issue Date**

Project Name:
USD 320 WAMEGO HIGH SCHOOL IMPROVEMENTS
Project Address:
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Sheet Title:
INTERIOR ELEVATIONS

Sheet:
A203
Of:



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PRICING SET
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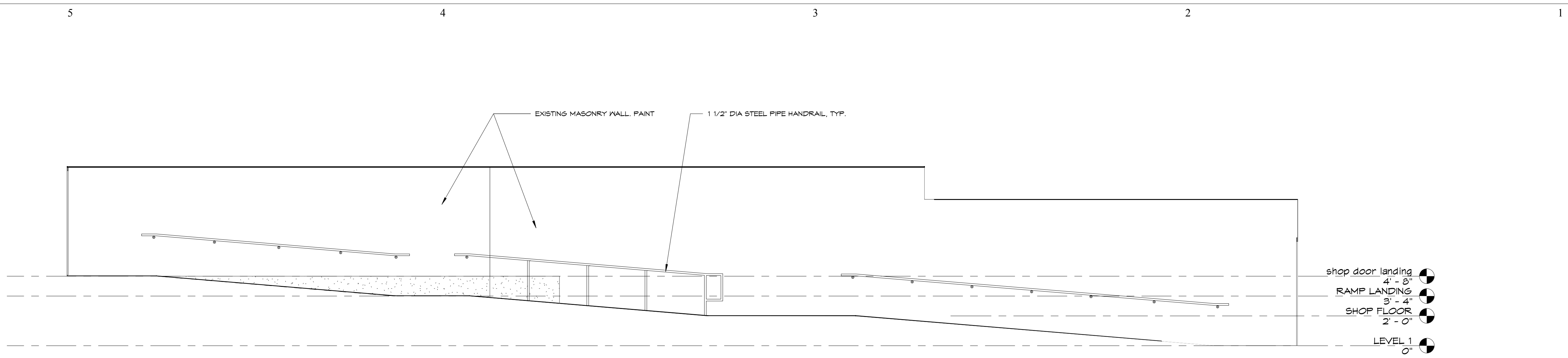
Project Address:
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Sheet Title:

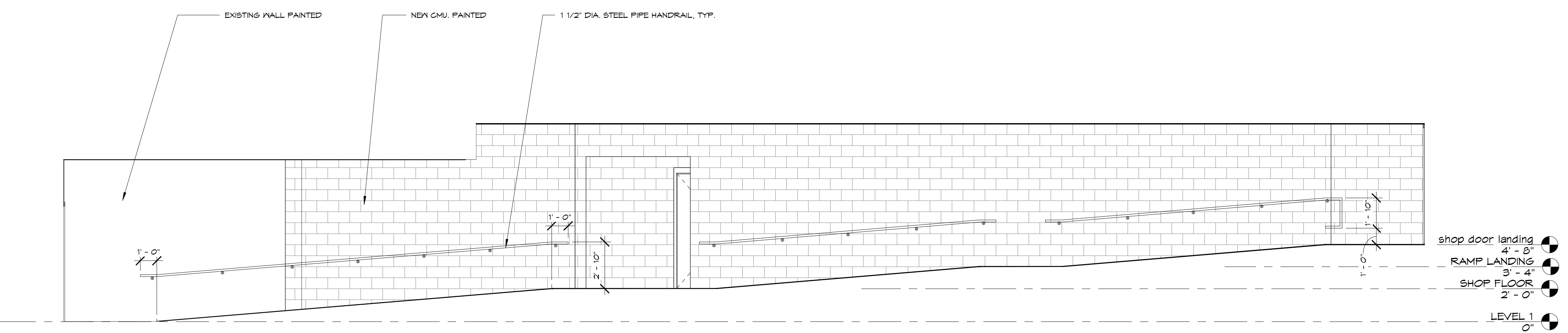
INTERIOR ELEVATIONS

Sheet: **A204**

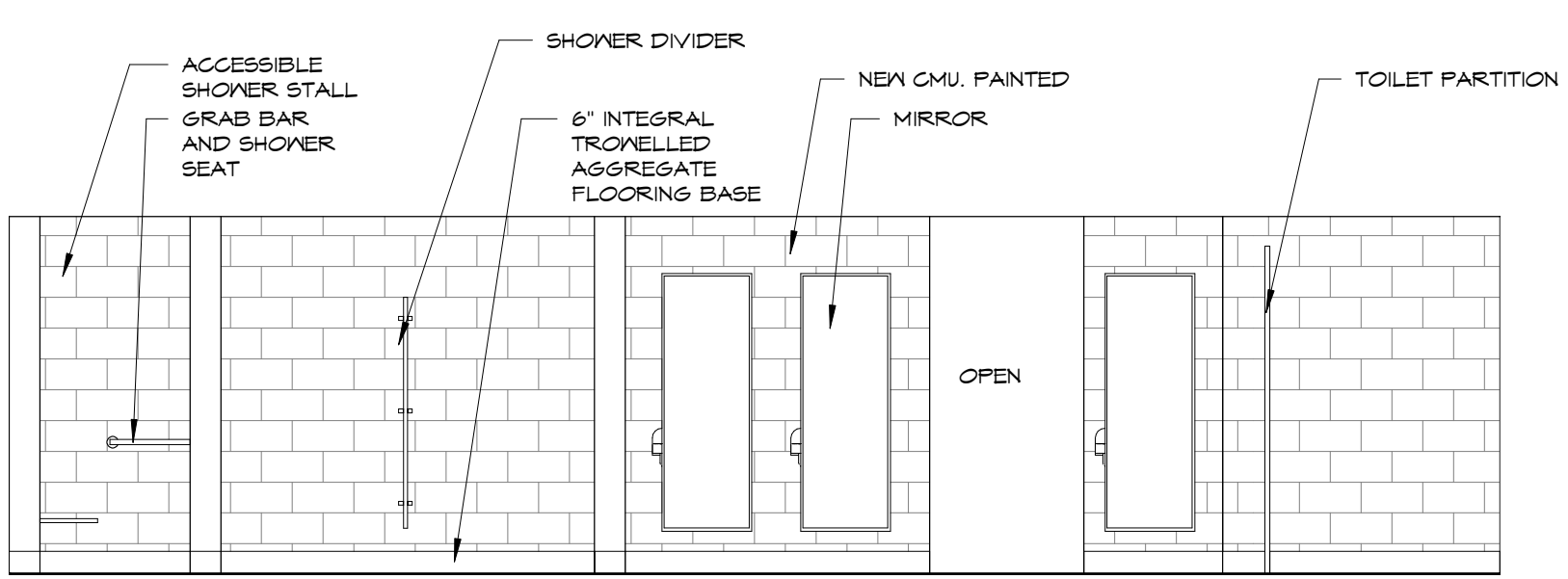
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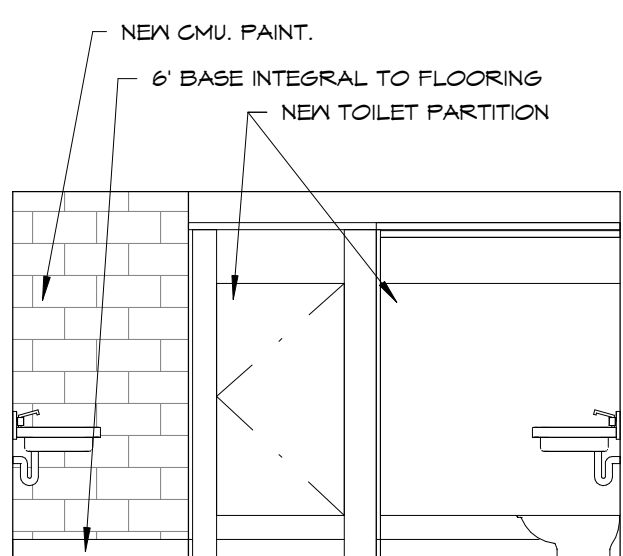
1 138 HALL - EAST WALL
 A204 1/4" = 1'-0"



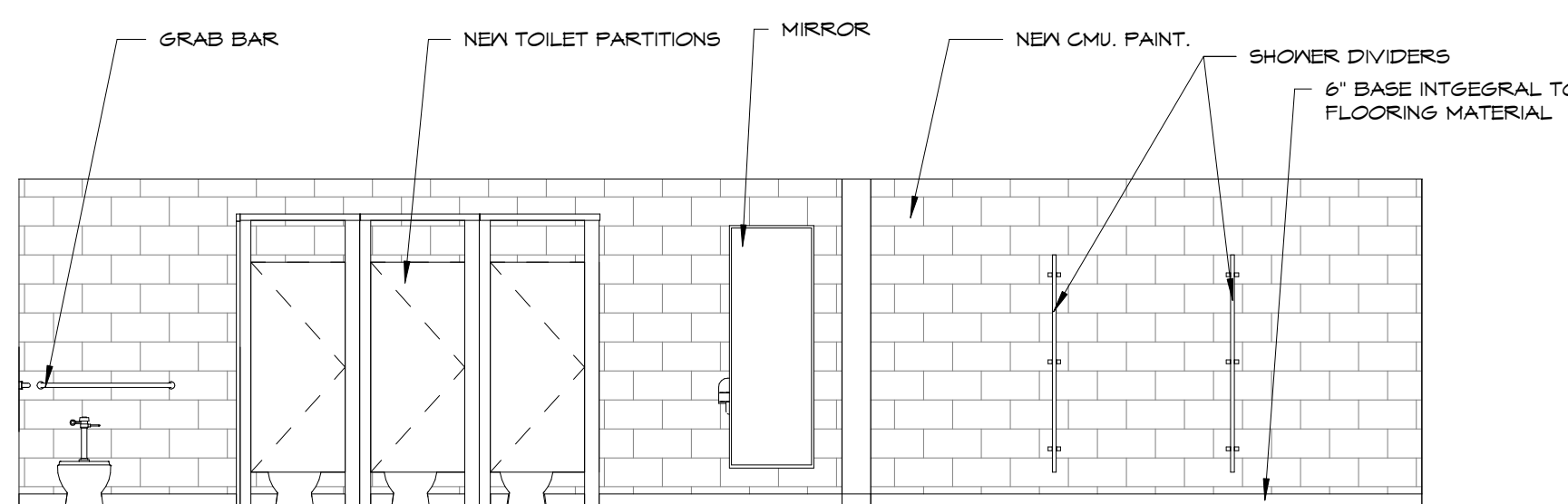
2 138 HALL - WEST WALL
 A204 1/4" = 1'-0"



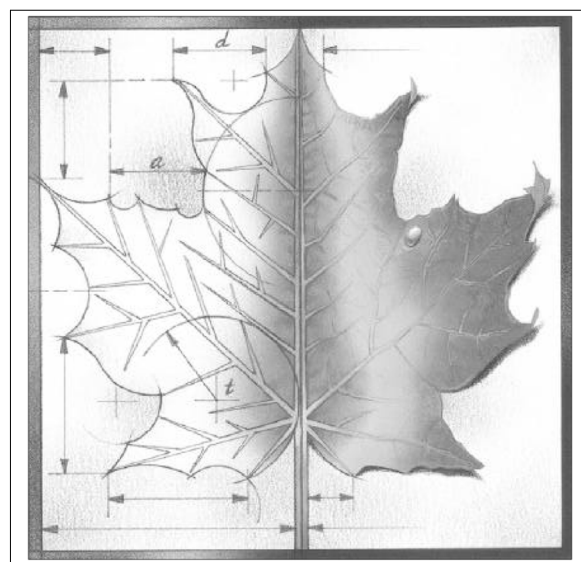
3 139D TOILETS, 139E SHOWERS - NORTH WALL
 A204 1/4" = 1'-0"



4 139D TOILETS - EAST WALL
 A204 1/4" = 1'-0"



5 139D TOILETS, 139E SHOWERS - SOUTH WALL
 A204 1/4" = 1'-0"



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Project Name:
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IMPROVEMENTS**

Project Address:
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WAMEGO, KS 66547**

Sheet Title:
**INTERIOR
ELEVATIONS**

Sheet:
A205
Of:

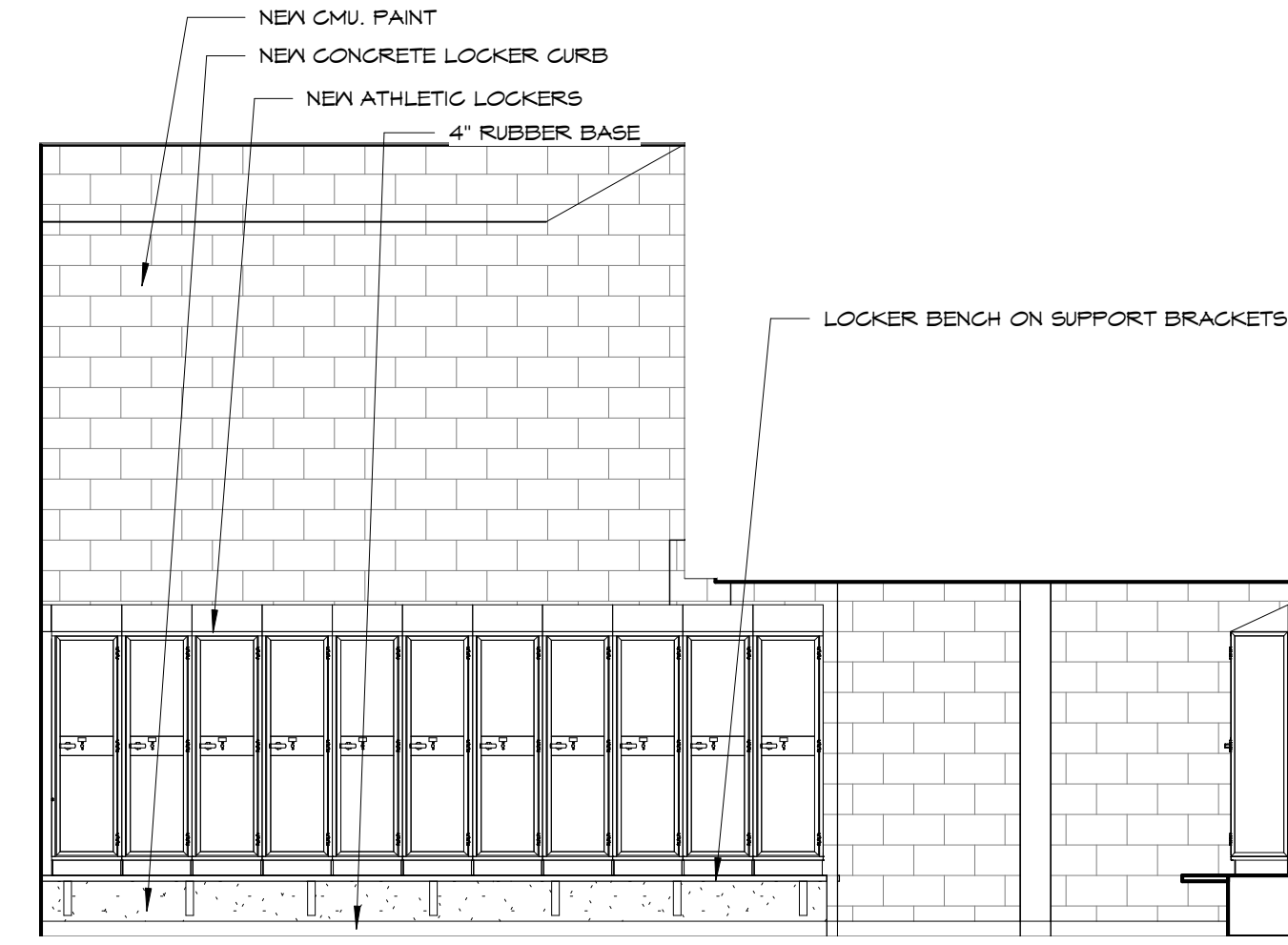
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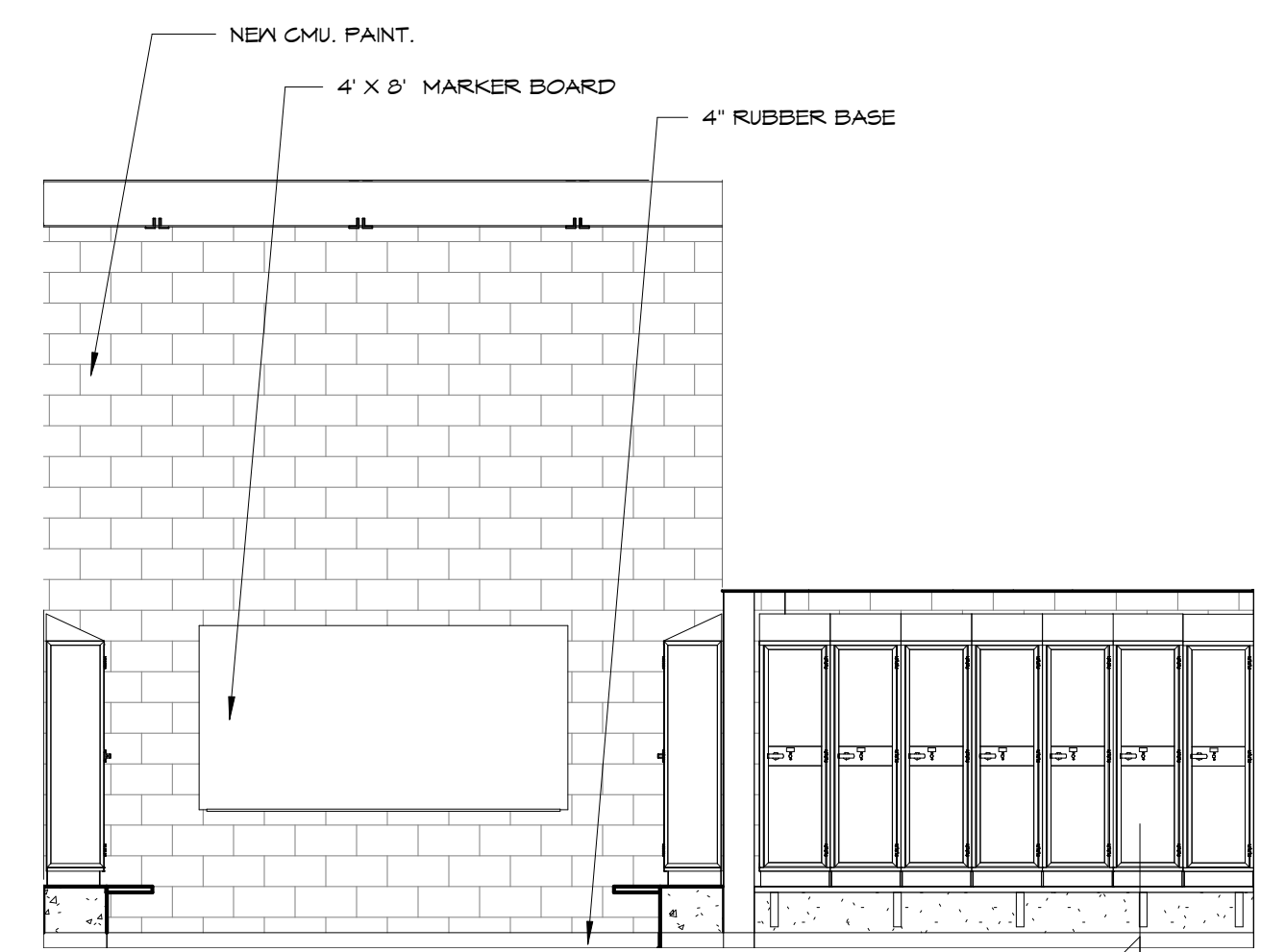
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2

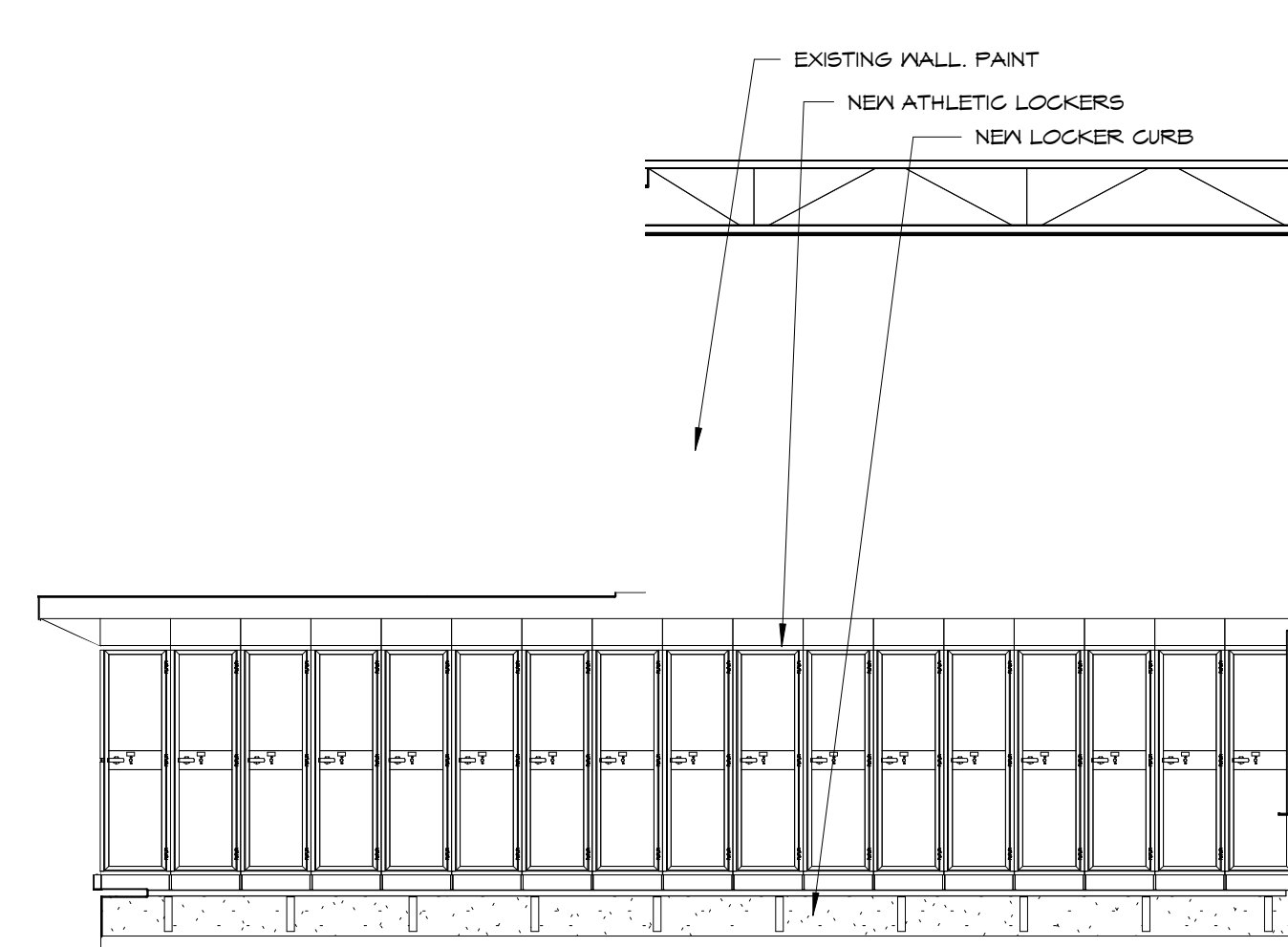
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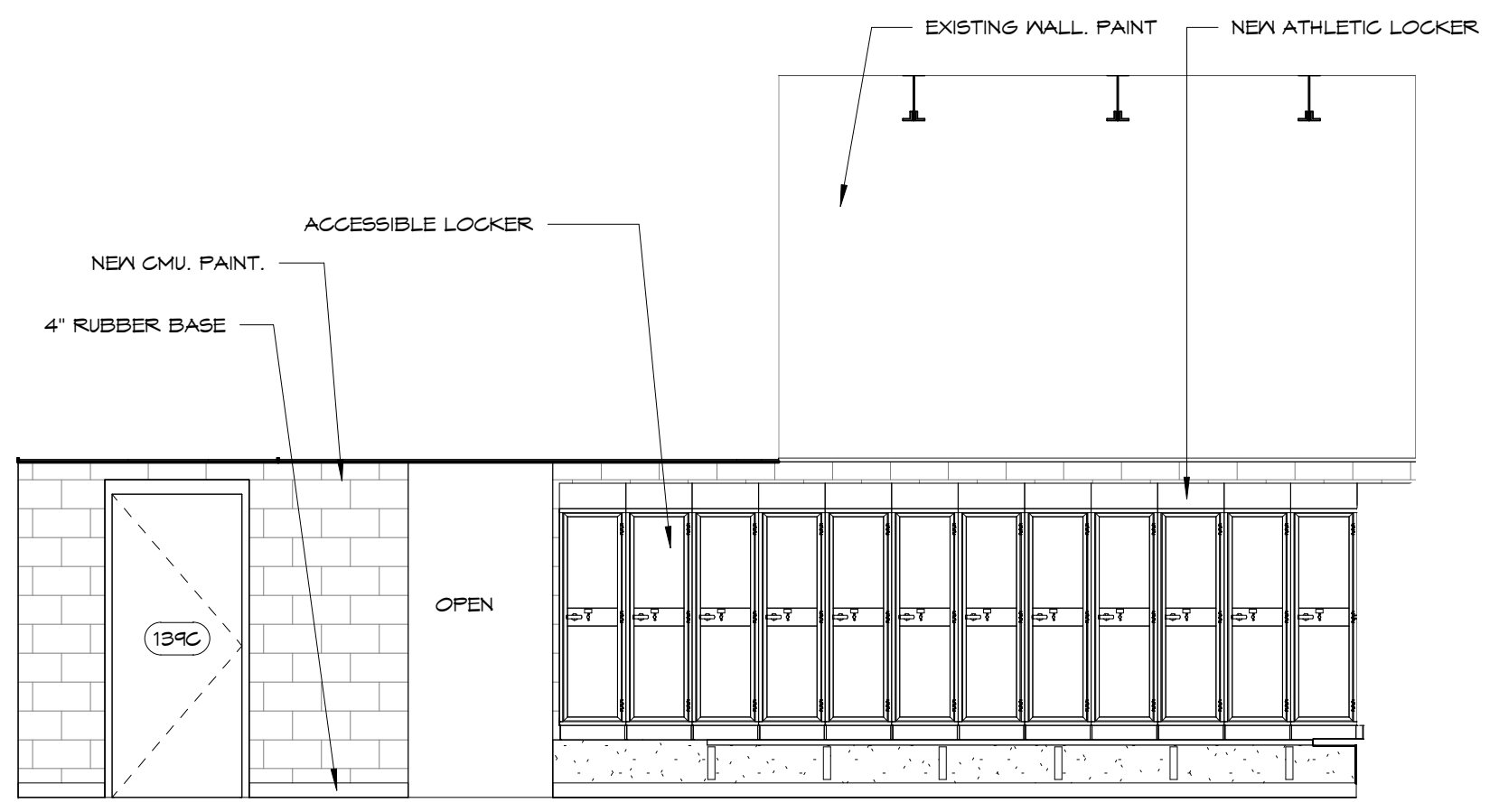
1
A205
139 LOCKERS - EAST WALL
1/4" = 1'-0"



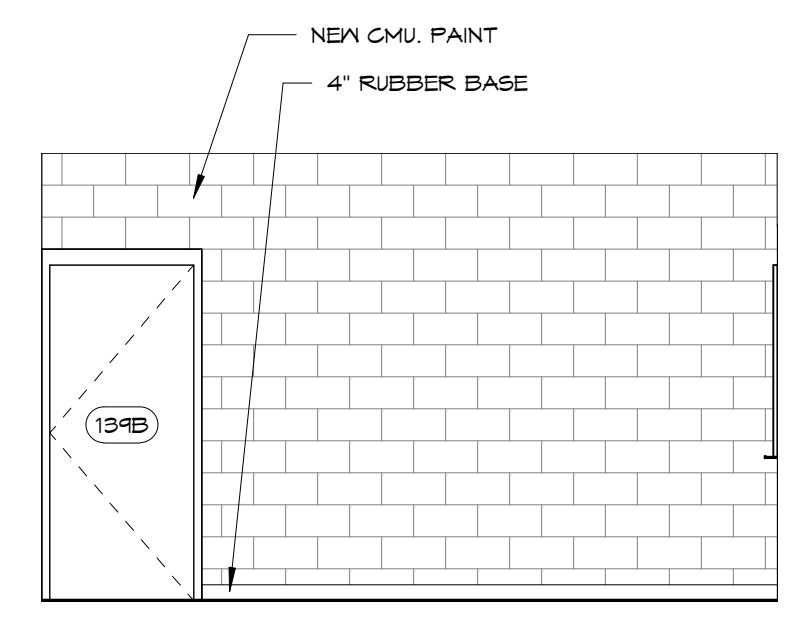
2
A205
139 LOCKERS - NORTH WALL
1/4" = 1'-0"



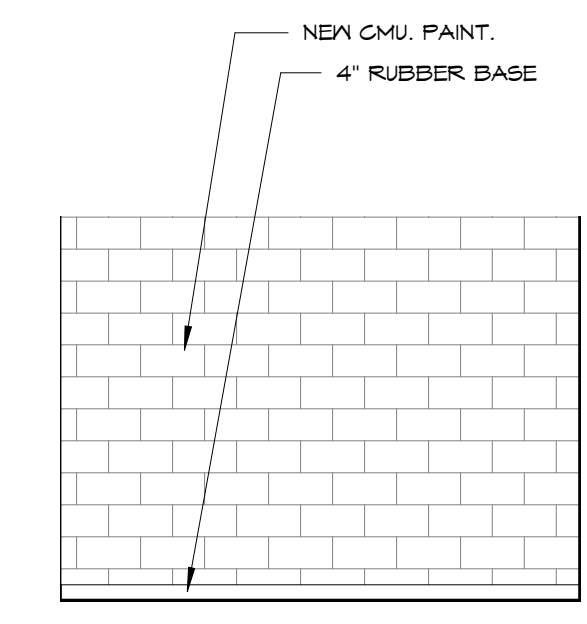
3
A205
139 LOCKERS - WEST WALL
1/4" = 1'-0"



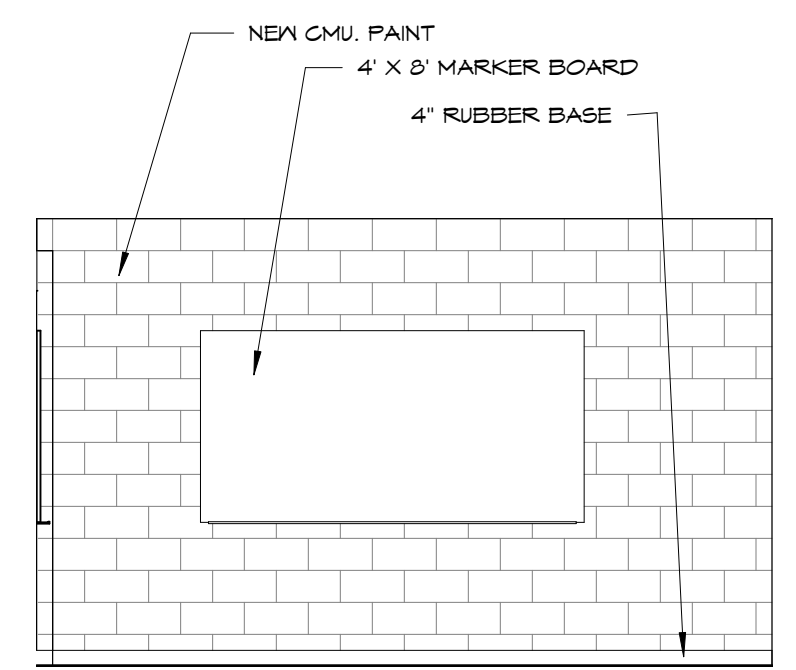
4
A205
139 LOCKERS - SOUTH WALL
1/4" = 1'-0"



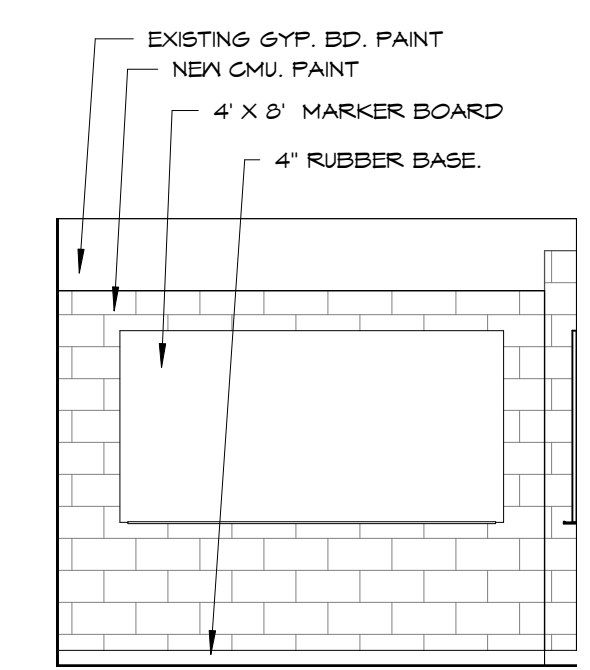
5
A205
139B MEETING - EAST WALL
1/4" = 1'-0"



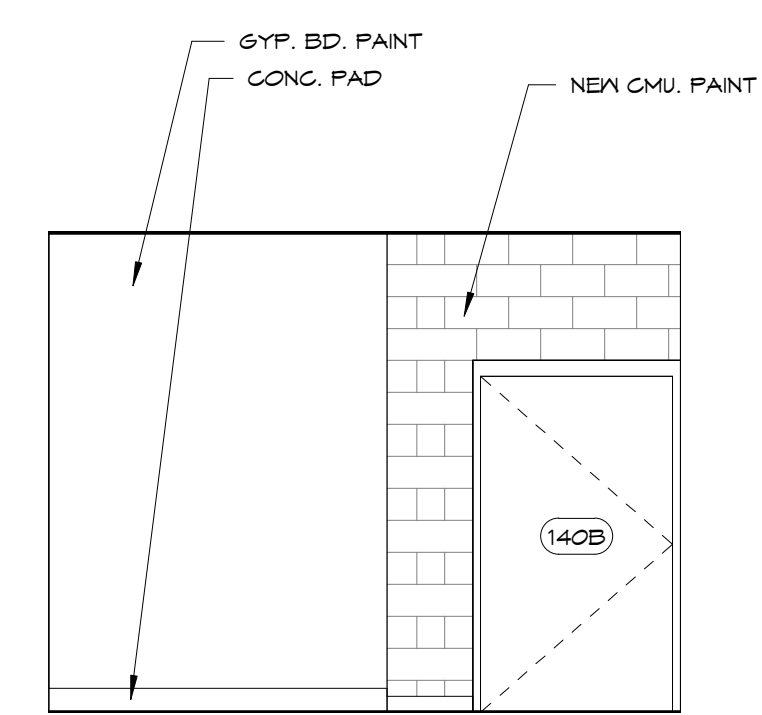
6
A205
139B MEETING - NORTH WALL
1/4" = 1'-0"



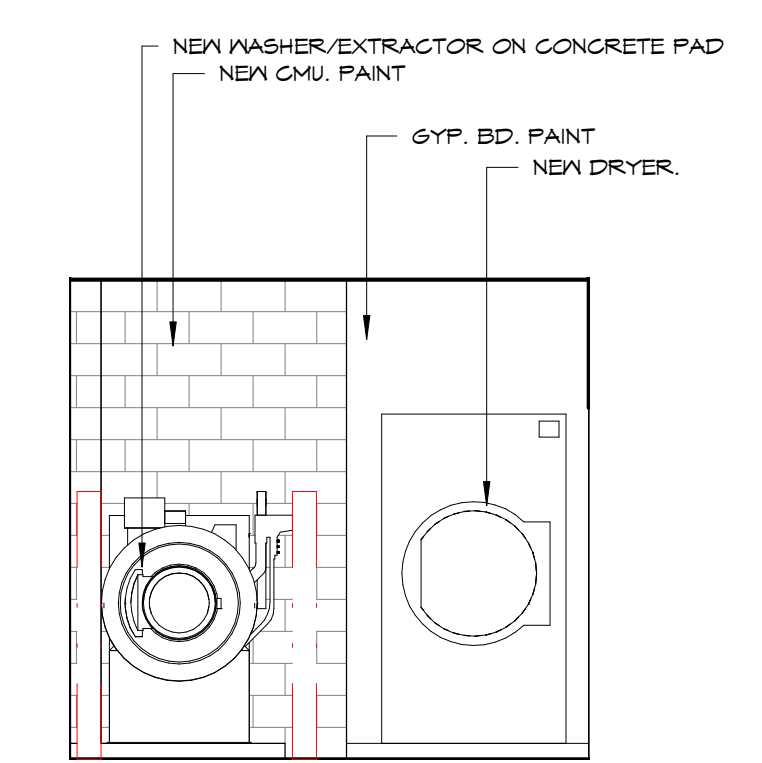
7
A205
139B MEETING - WEST WALL
1/4" = 1'-0"



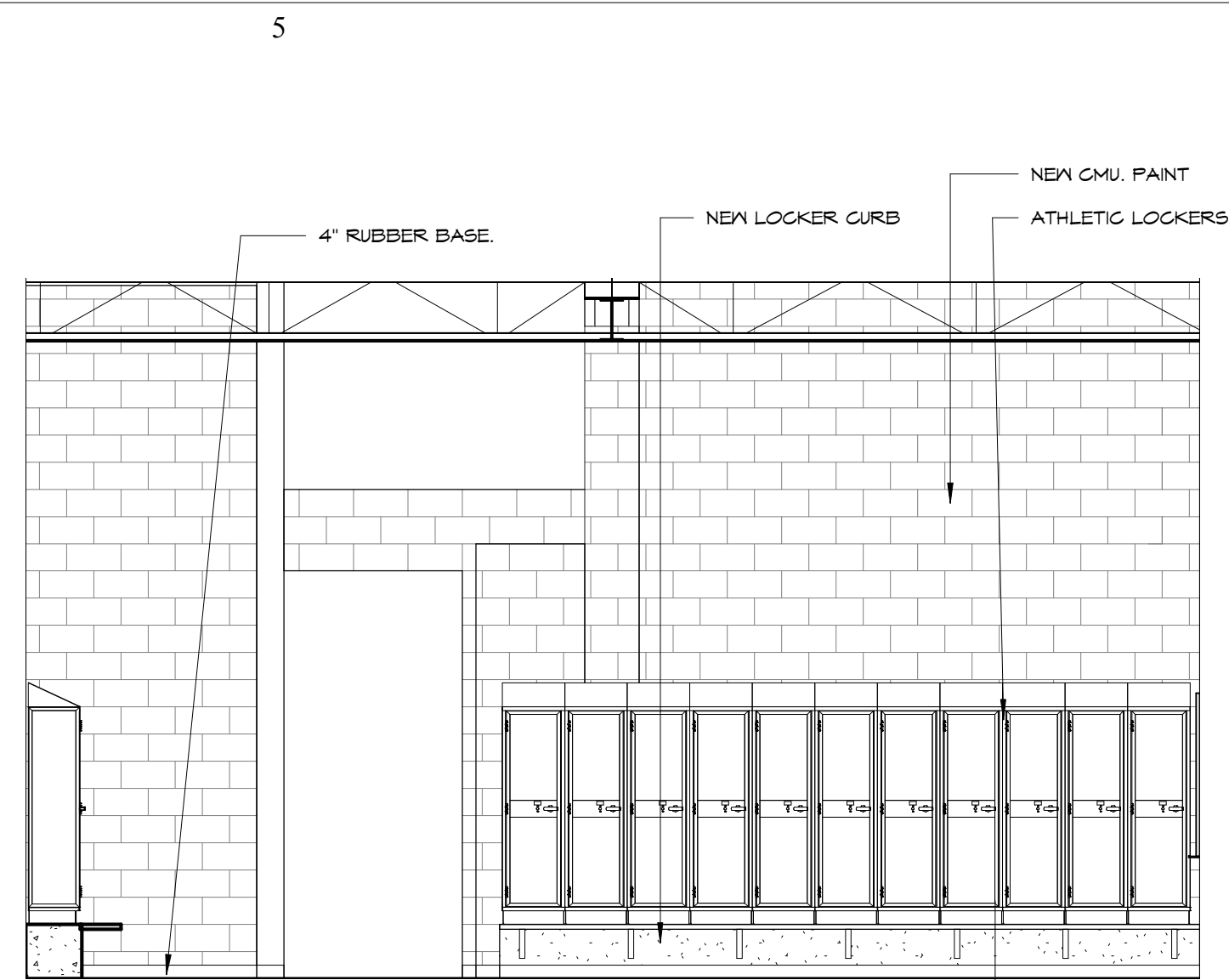
8
A205
139B MEETING - SOUTH WALL
1/4" = 1'-0"



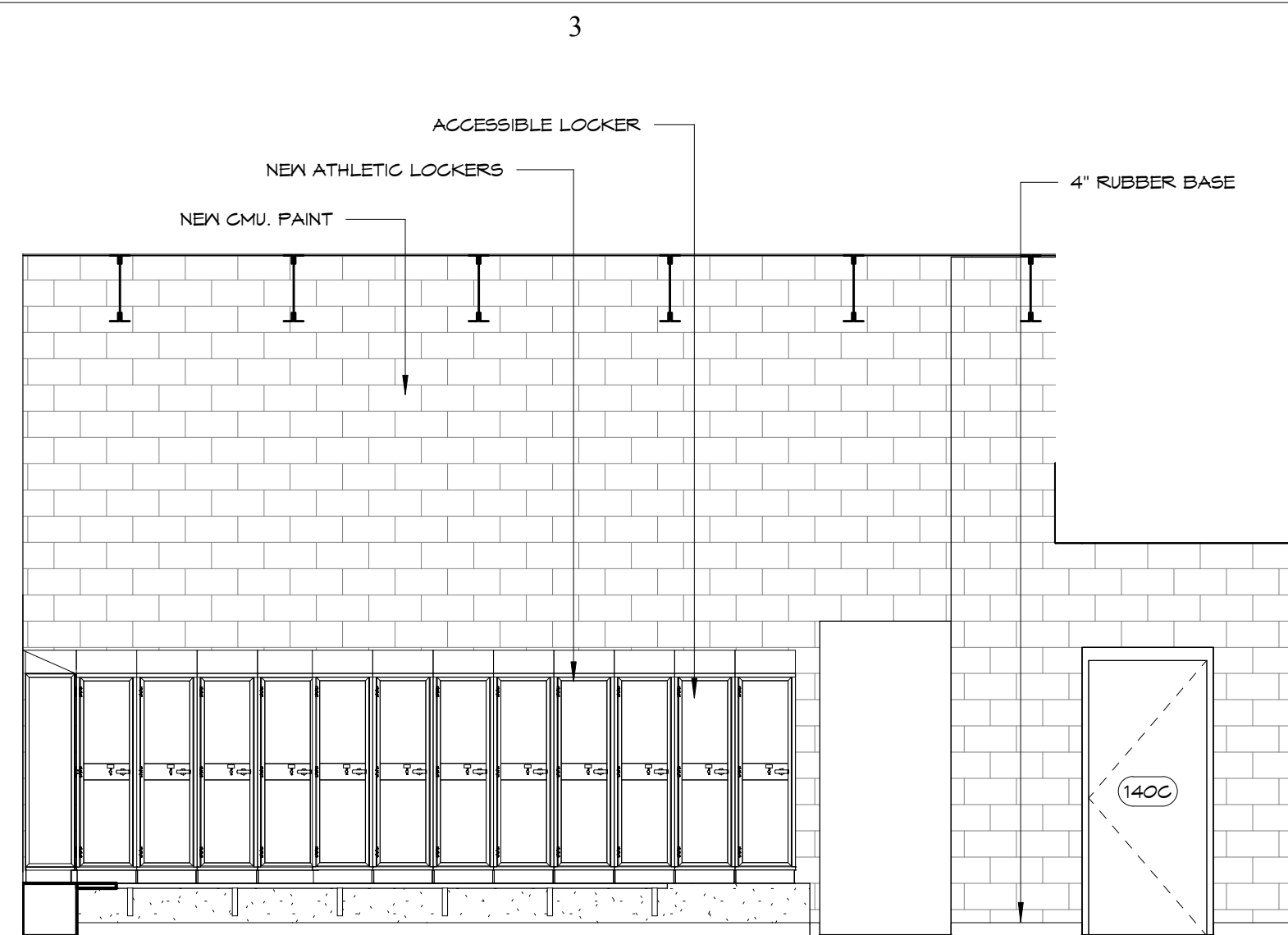
9
A205
140B LAUNDRY - EAST WALL
1/4" = 1'-0"



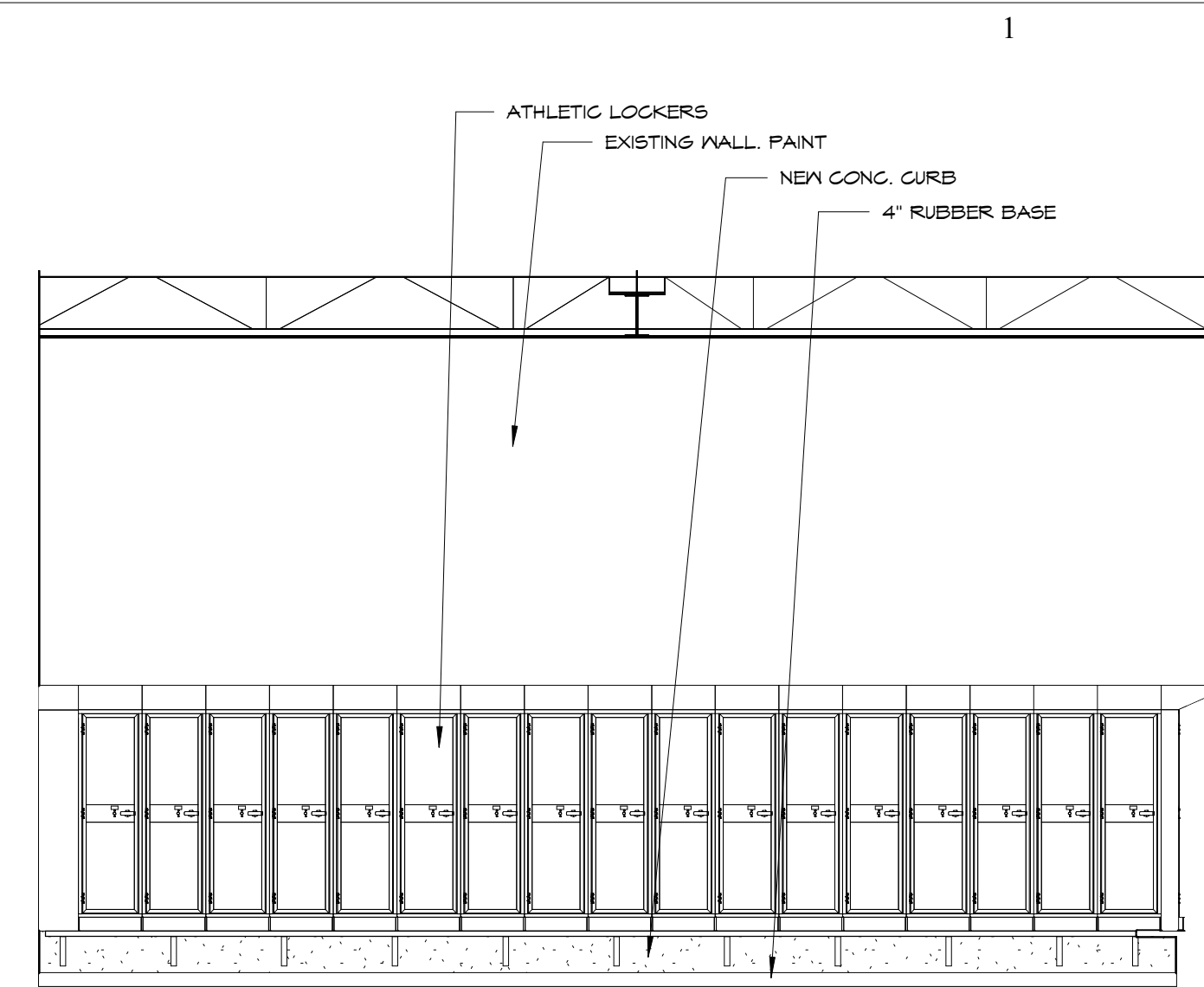
10
A205
140B LAUNDRY - NORTH WALL
1/4" = 1'-0"



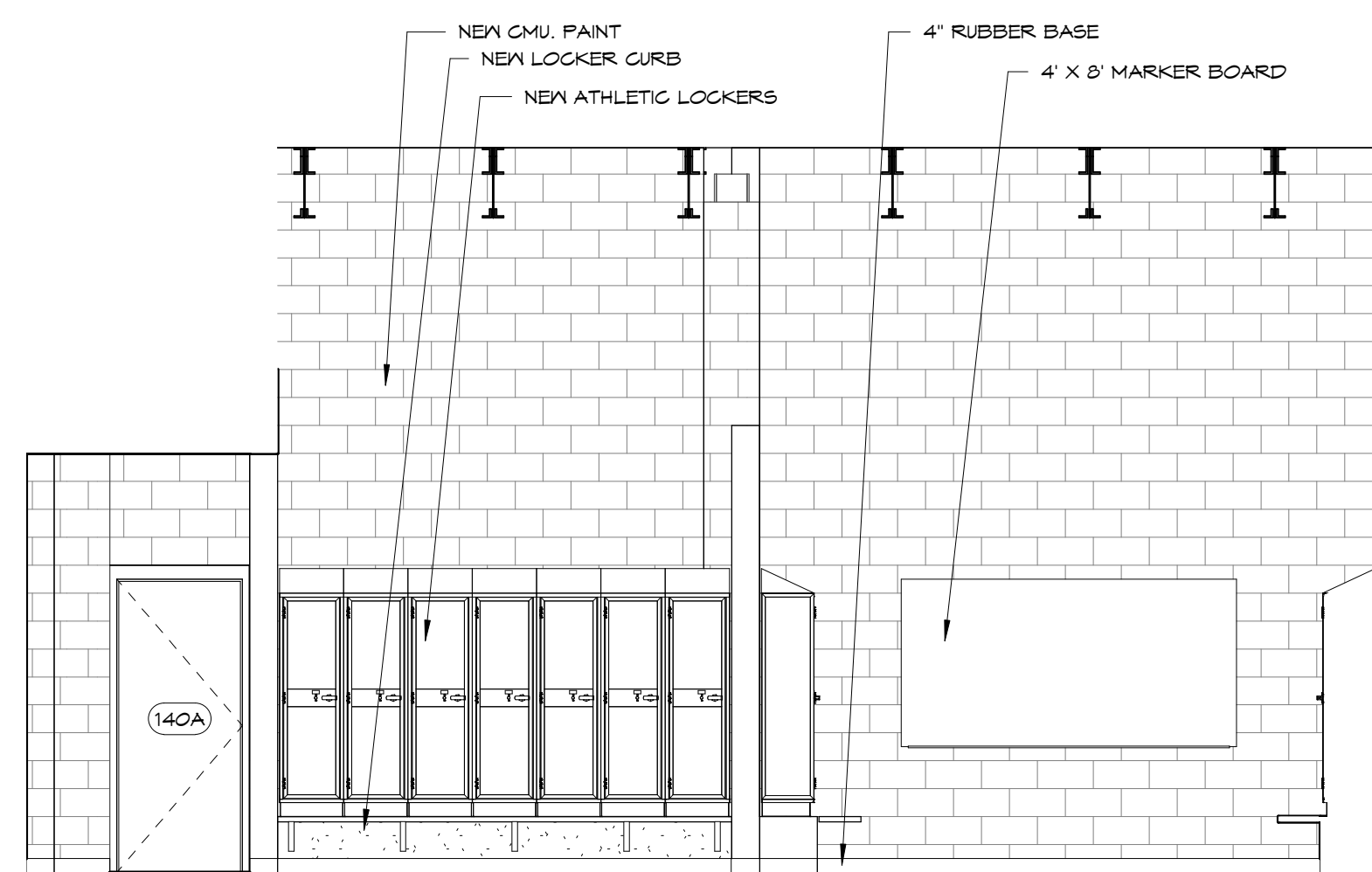
1 140 LOCKERS - EAST WALL
1/4" = 1'-0"



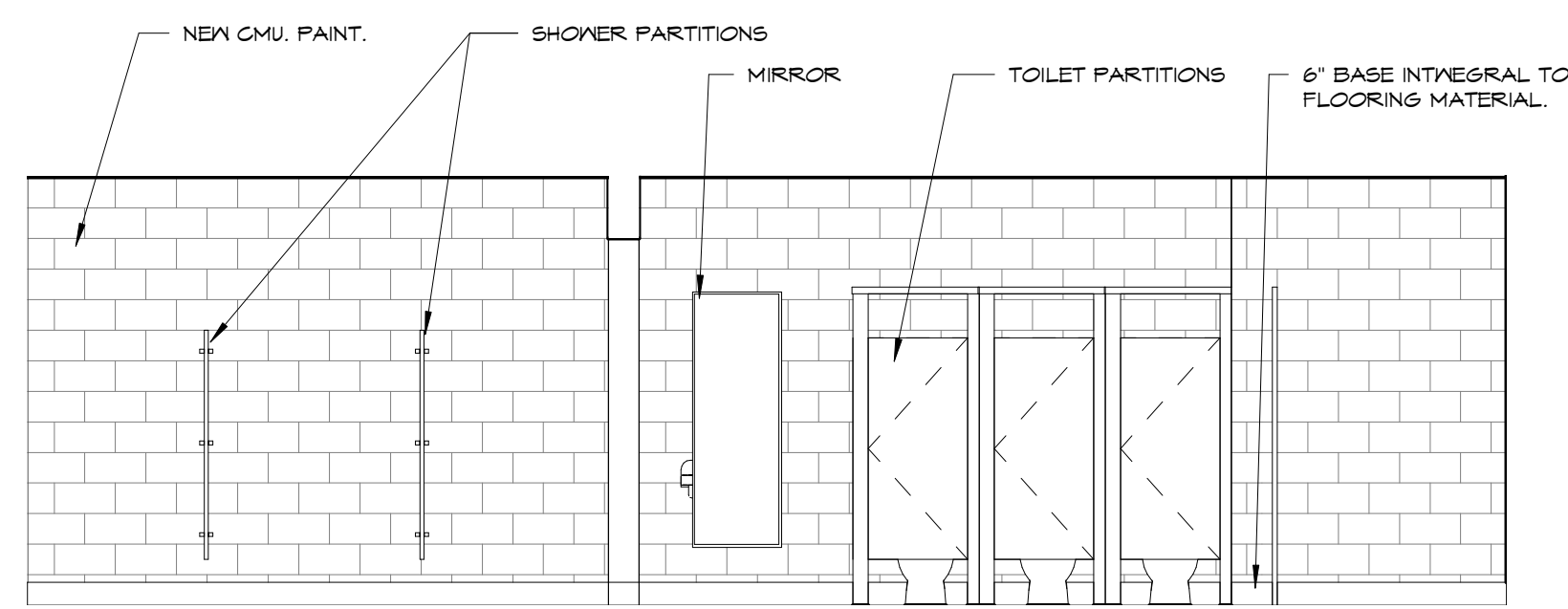
2 140 LOCKERS - NORTH WALL
1/4" = 1'-0"



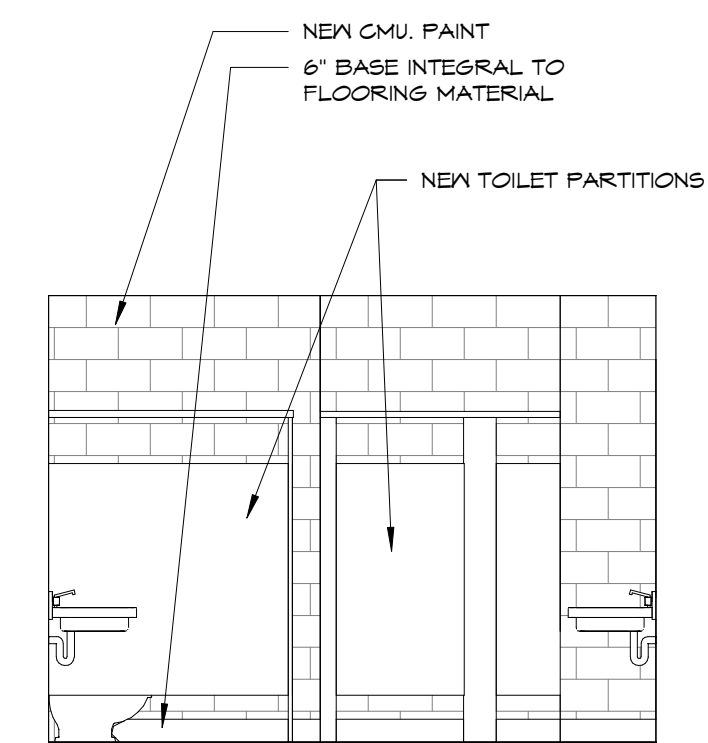
3 140 LOCKERS - WEST WALL
1/4" = 1'-0"



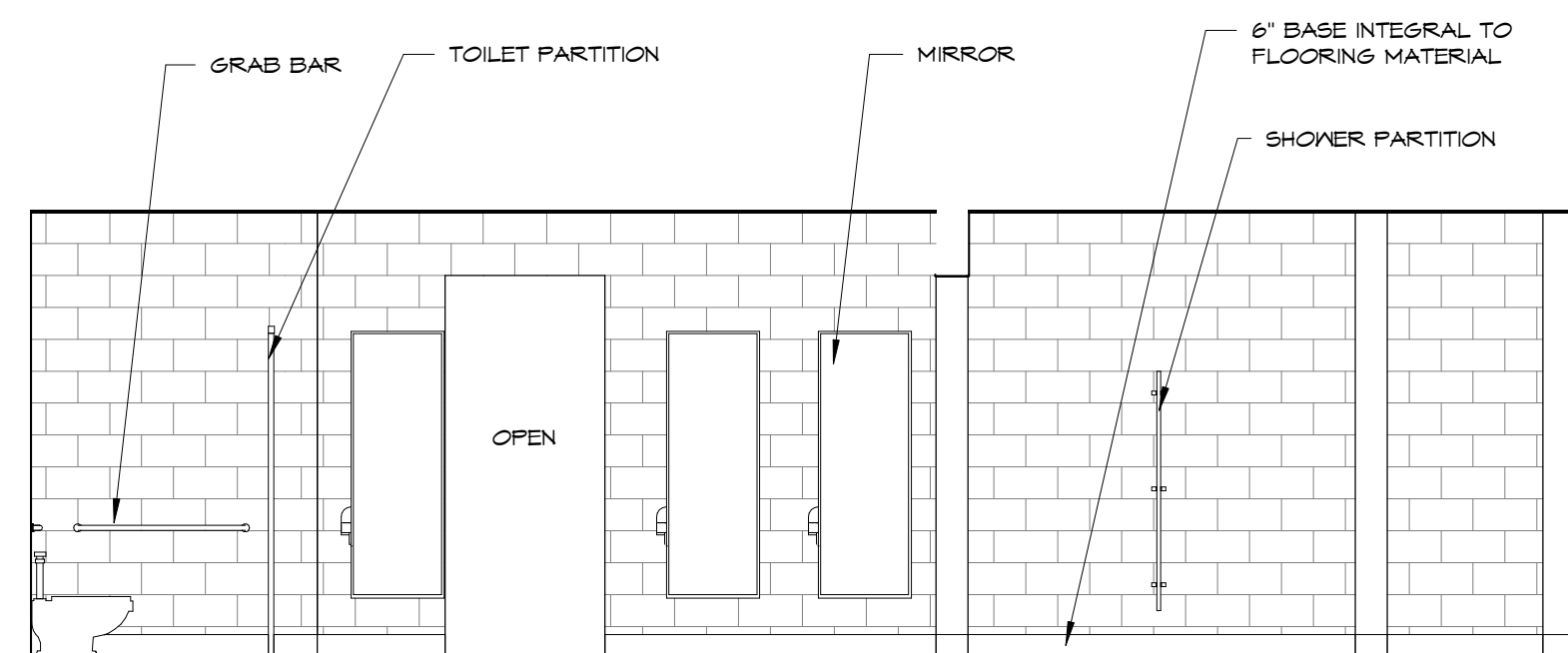
4 140 LOCKERS - SOUTH WALL
1/4" = 1'-0"



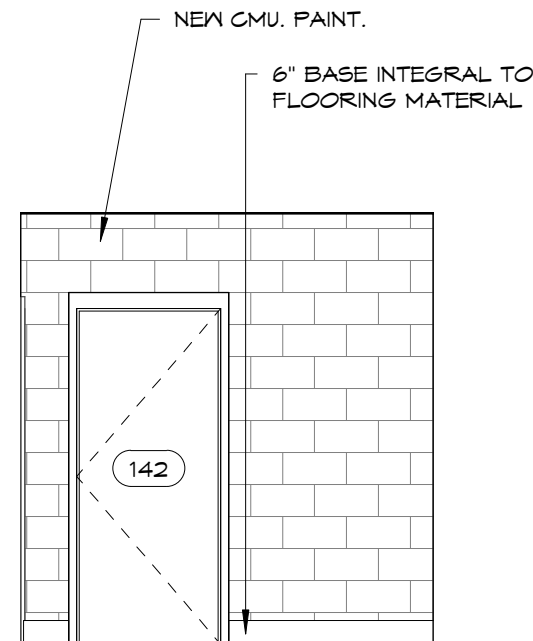
5 140D TOILETS, 140E SHOWERS - NORTH WALL
1/4" = 1'-0"



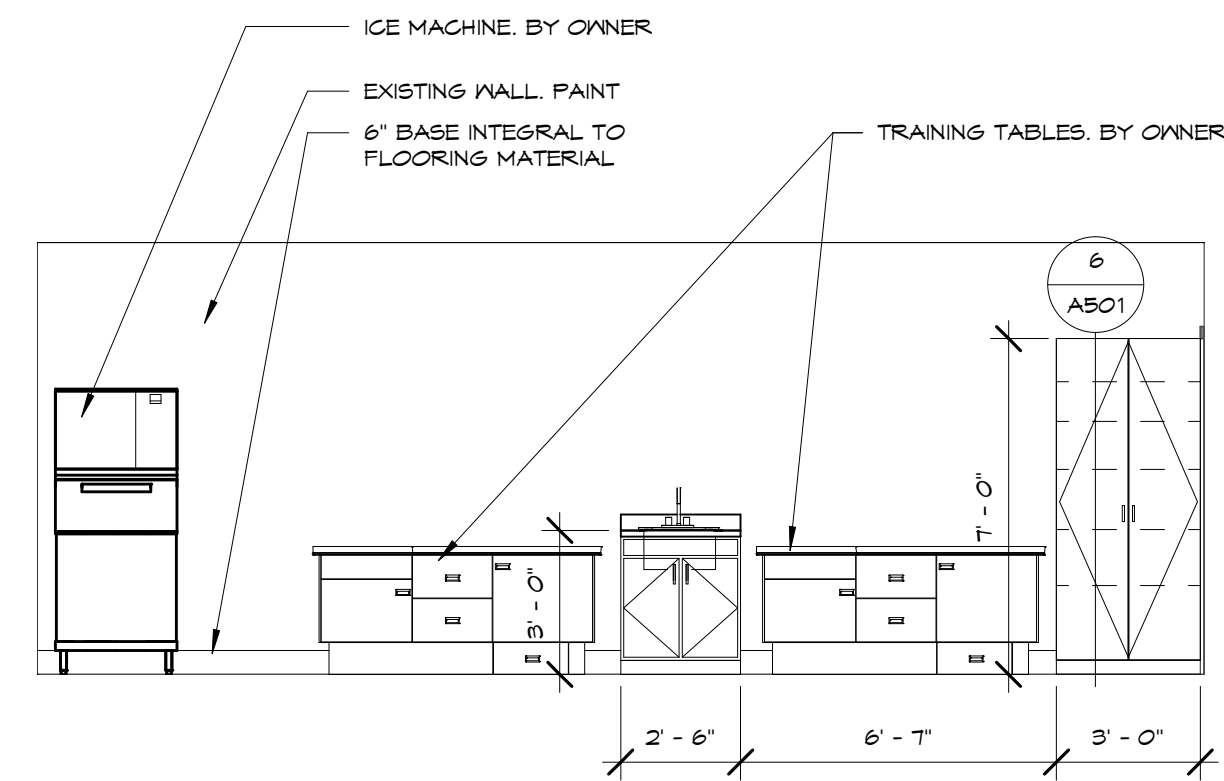
6 140D TOILETS - EAST WALL
1/4" = 1'-0"



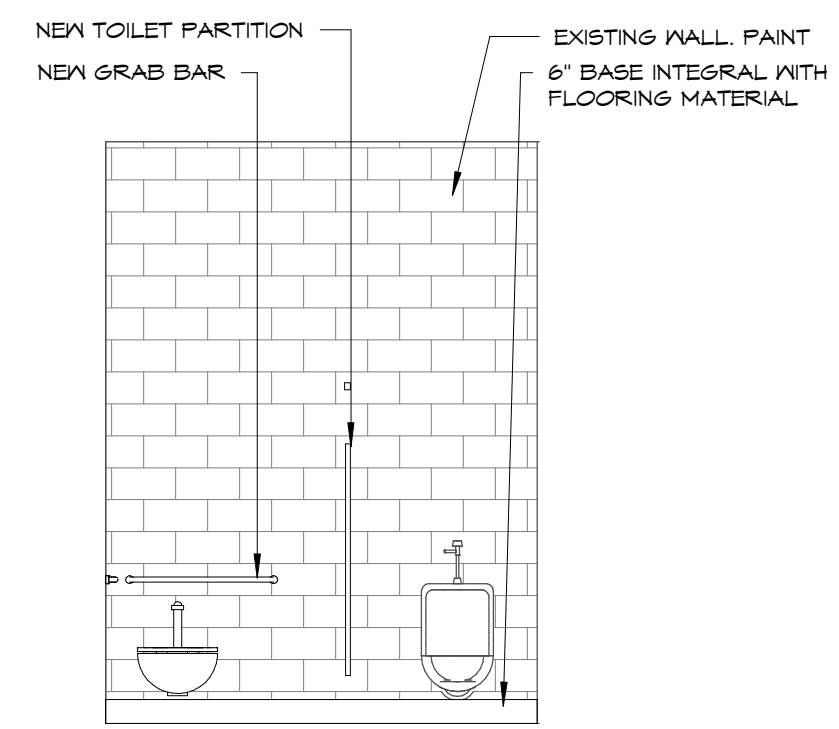
7 140D TOILETS, 140E SHOWERS - SOUTH WALL
1/4" = 1'-0"



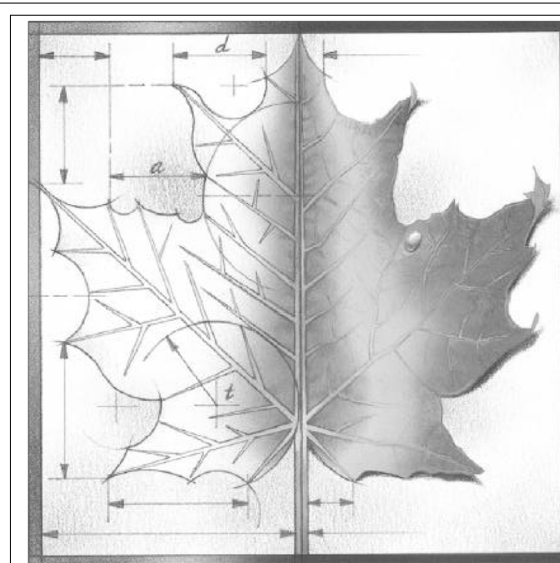
8 142 TRAINING - WEST WALL
1/4" = 1'-0"



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



10 145 TOILET - NORTH WALL
1/4" = 1'-0"



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REV	DESC	DATE
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PRICING SET
NOT FOR CONSTRUCTION

Project Number: **16036**

Date: **Issue Date**

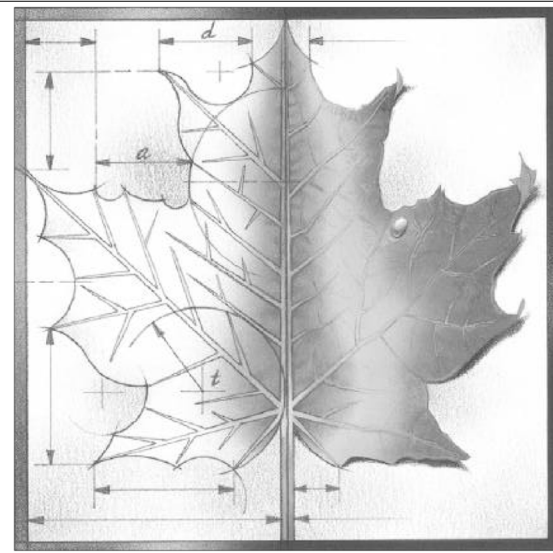
Project Name:
USD 320 WAMEGO HIGH SCHOOL IMPROVEMENTS

Project Address:
**801 LICNOLN AVENUE
WAMEGO, KS 66547**

Sheet Title:
INTERIOR ELEVATIONS

Sheet:
A206

Of:



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REV	DESC	DATE
PRICING SET NOT FOR CONSTRUCTION		

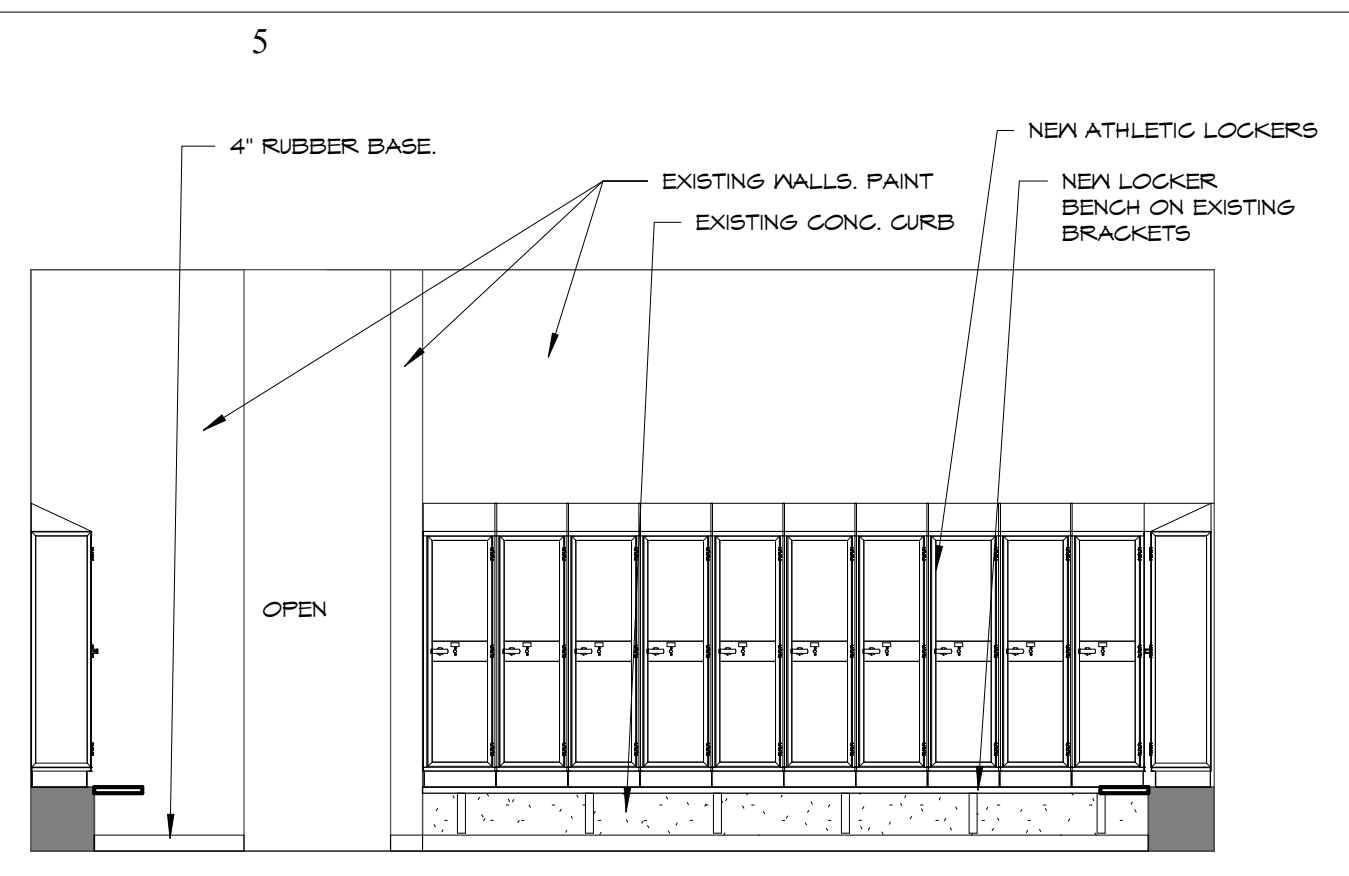
Project Number: **16036**
 Date: **Issue Date**

Project Name:
USD 320 WAMEGO HIGH SCHOOL IMPROVEMENTS

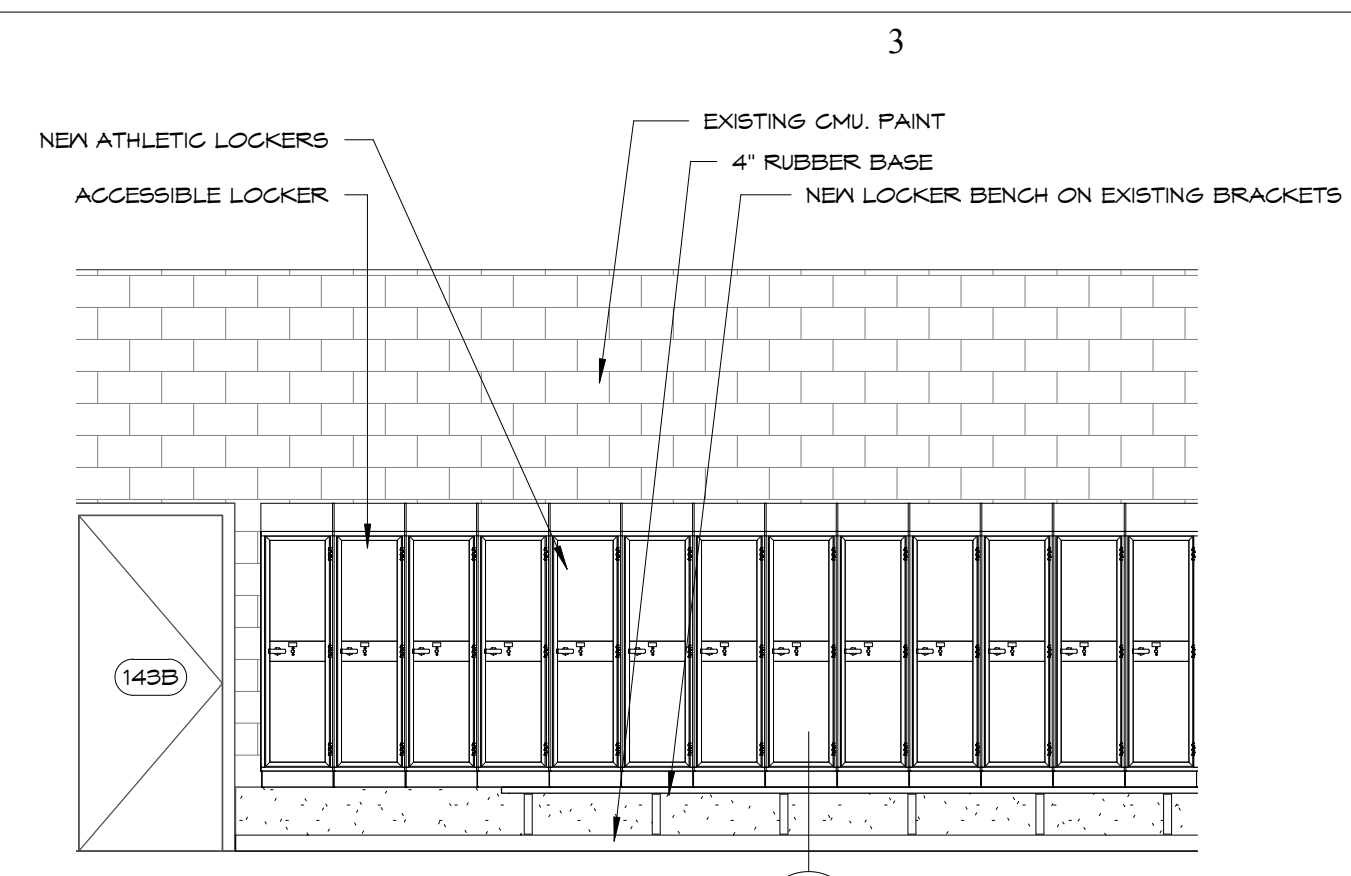
Project Address:
**801 LICNOLN AVENUE
 WAMEGO, KS 66547**

Sheet Title:
INTERIOR ELEVATIONS

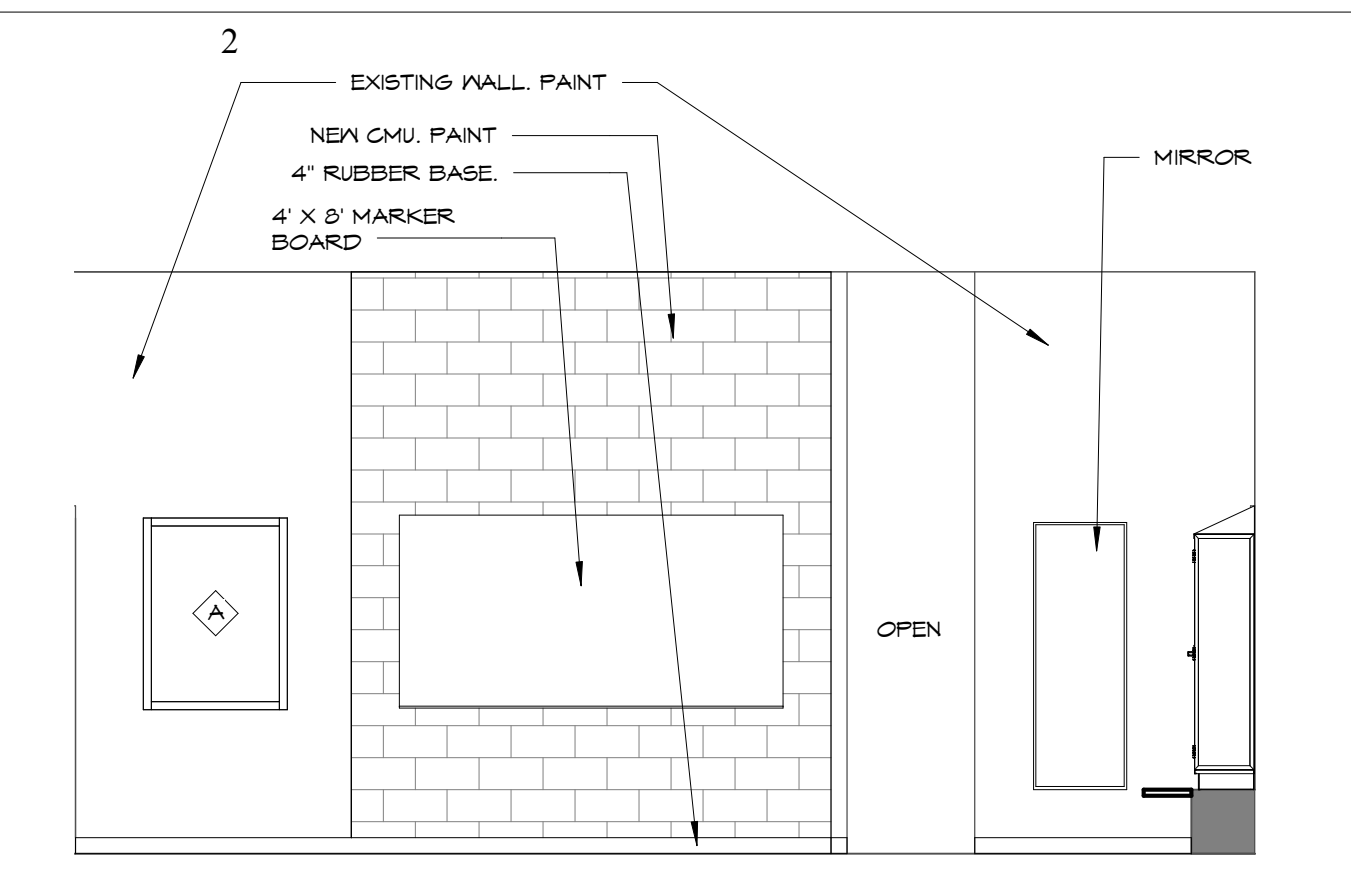
Sheet:
A207
 OF:



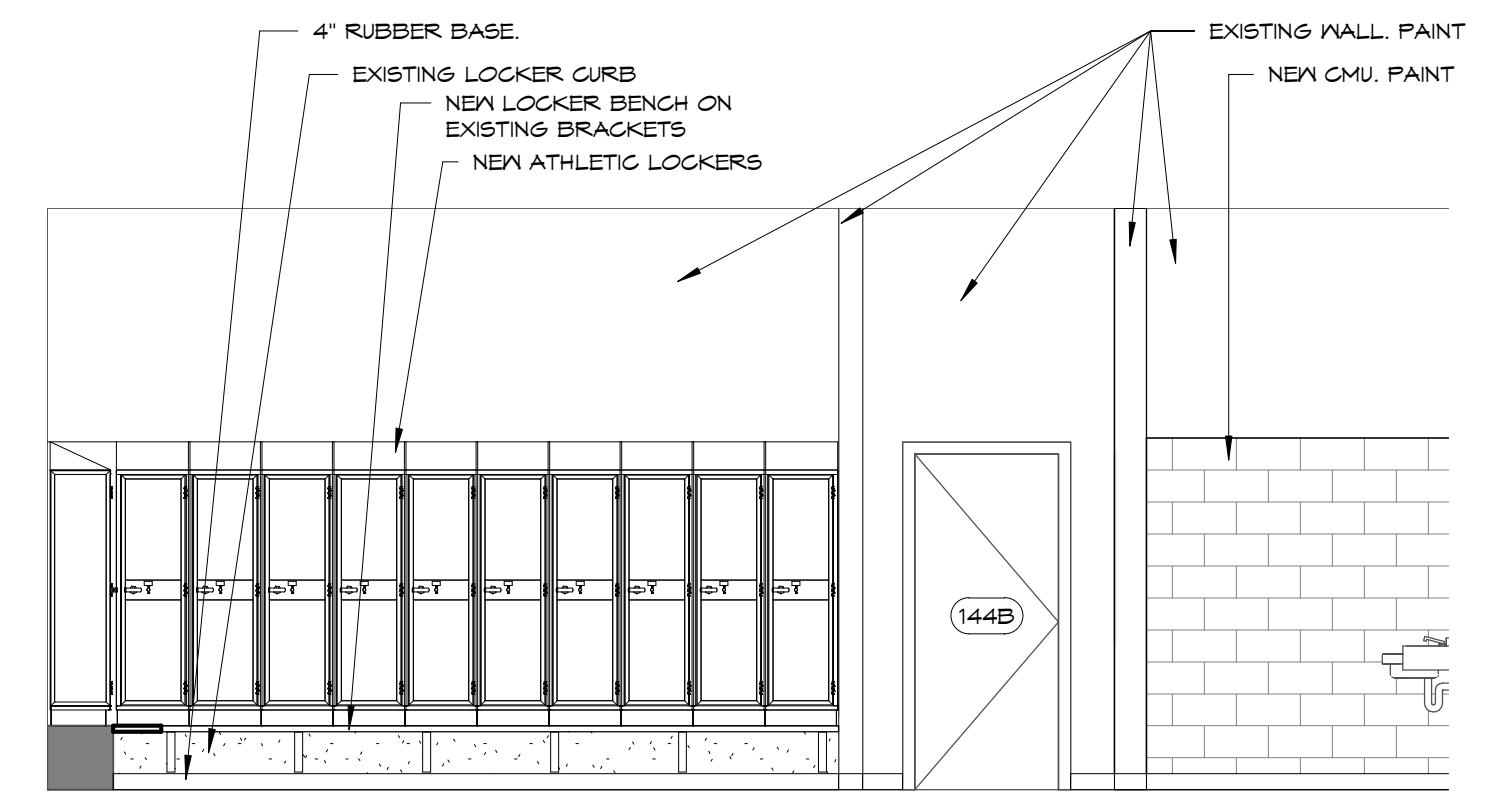
1 144 LOCKERS - EAST WALL
 A207 1/4" = 1'-0"



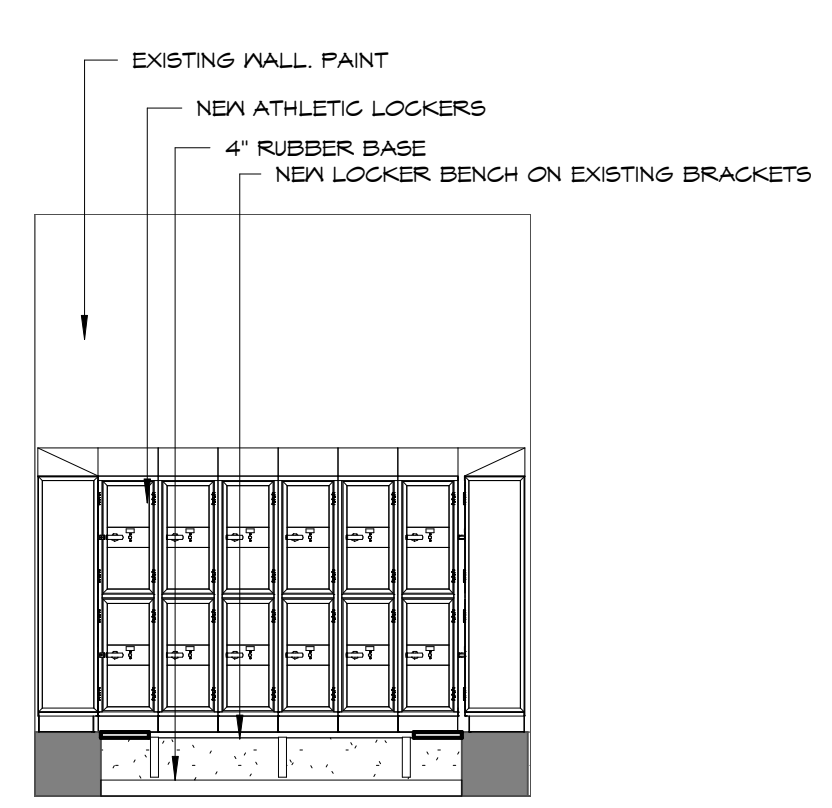
2 144 LOCKERS - NORTH WALL
 A207 1/4" = 1'-0"



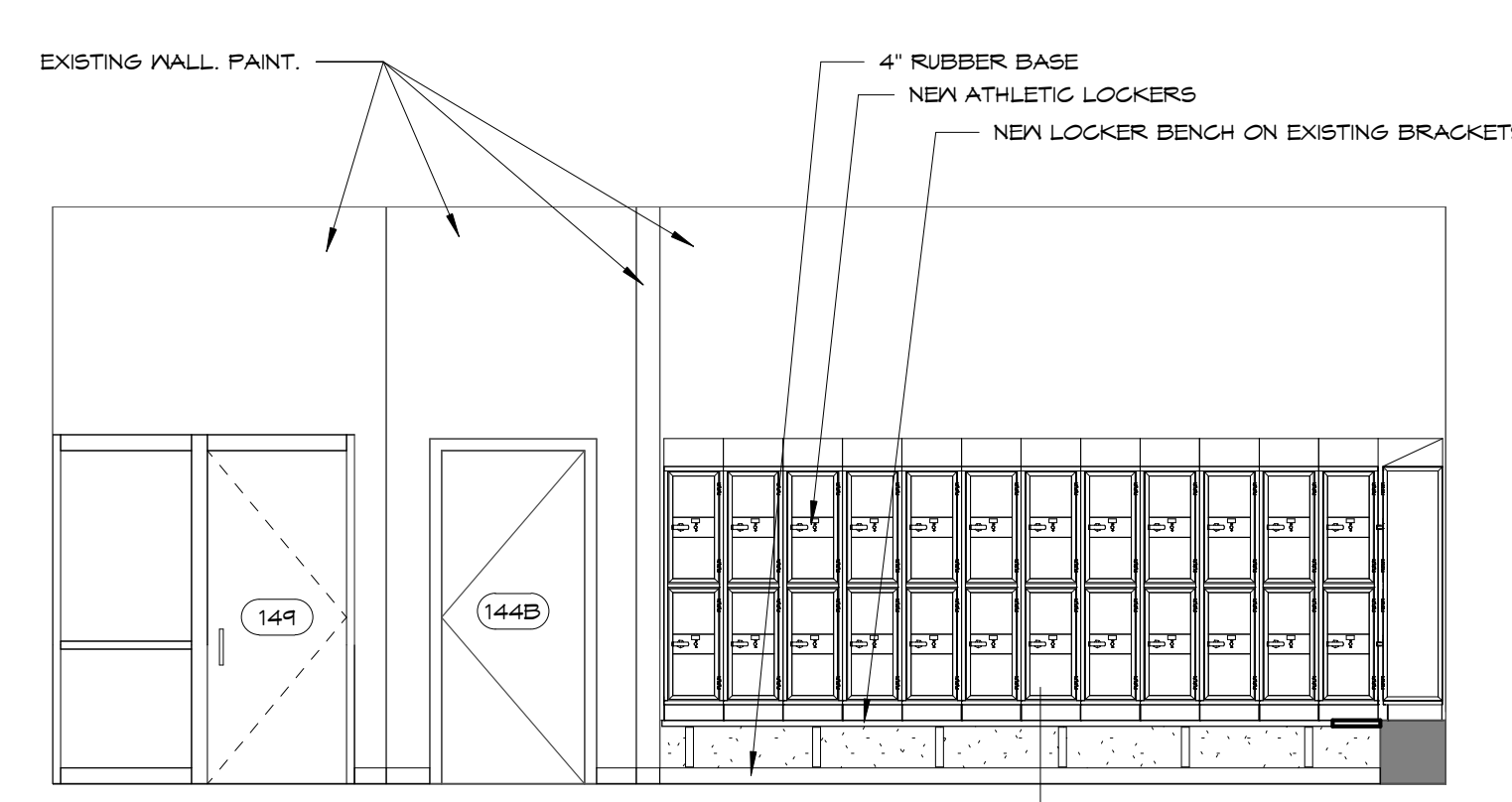
3 144 LOCKERS - WEST WALL
 A207 1/4" = 1'-0"



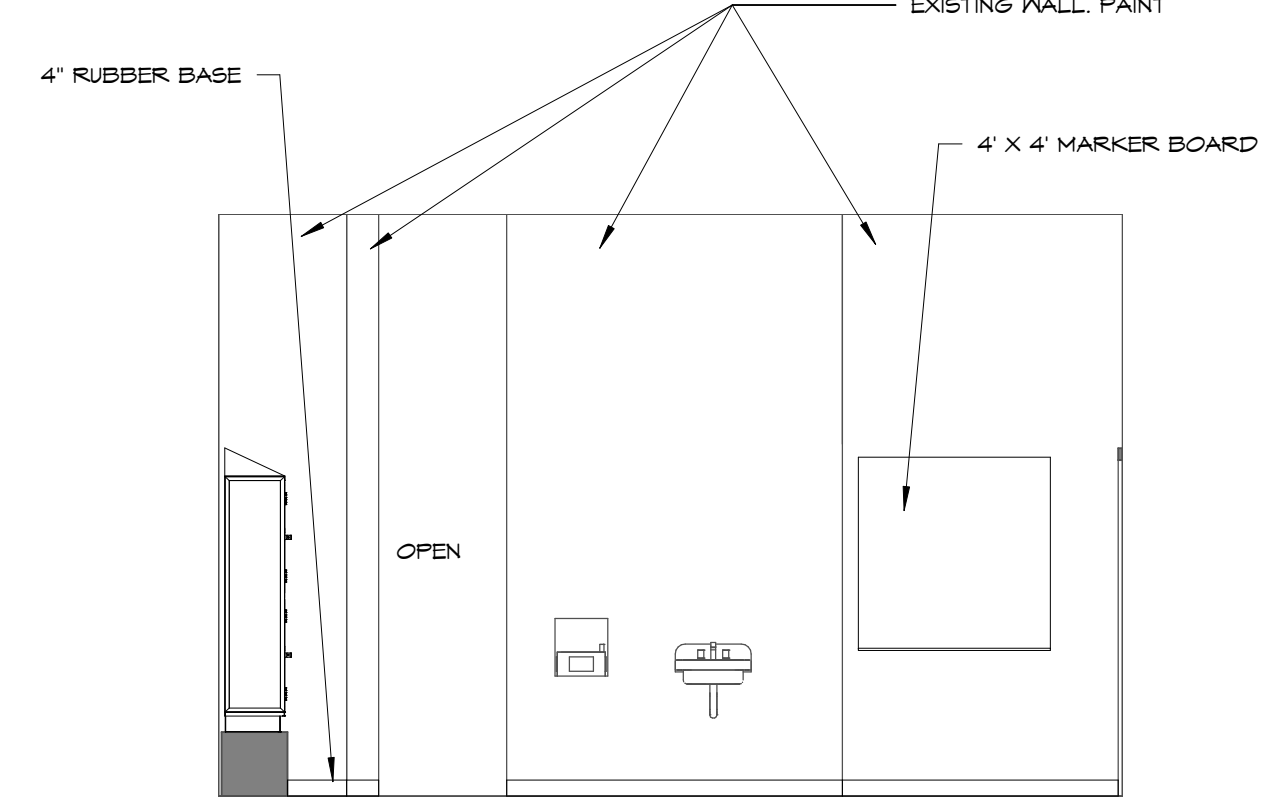
4 144 LOCKERS - SOUTH WALL
 A207 1/4" = 1'-0"



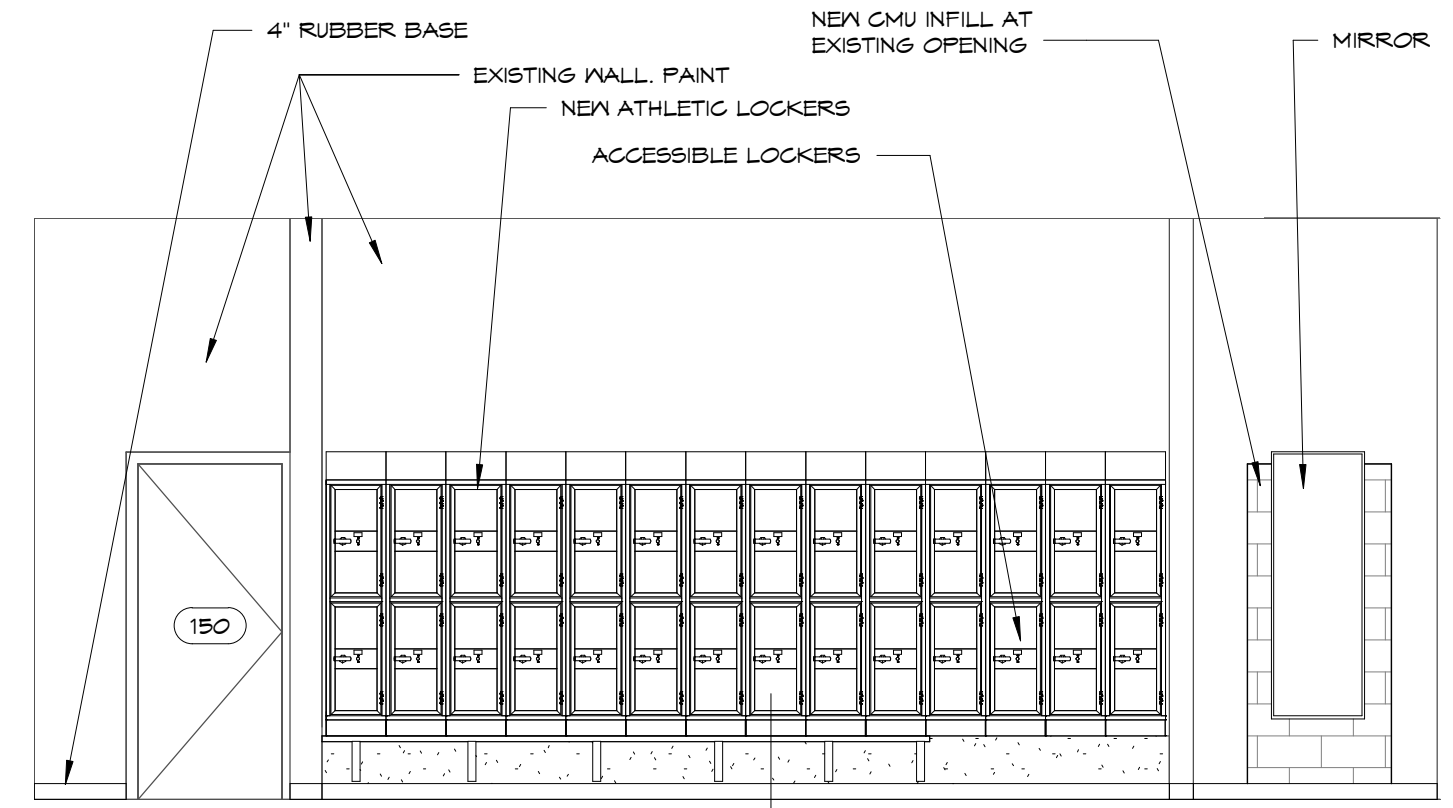
5 150 LOCKERS - EAST WALL
 A207 1/4" = 1'-0"



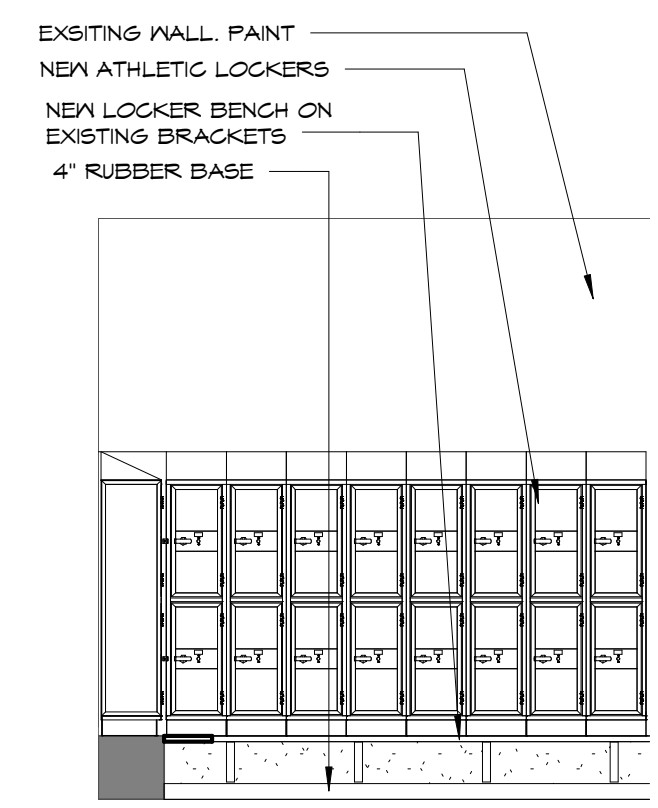
6 150 LOCKERS - NORTH WALL
 A207 1/4" = 1'-0"



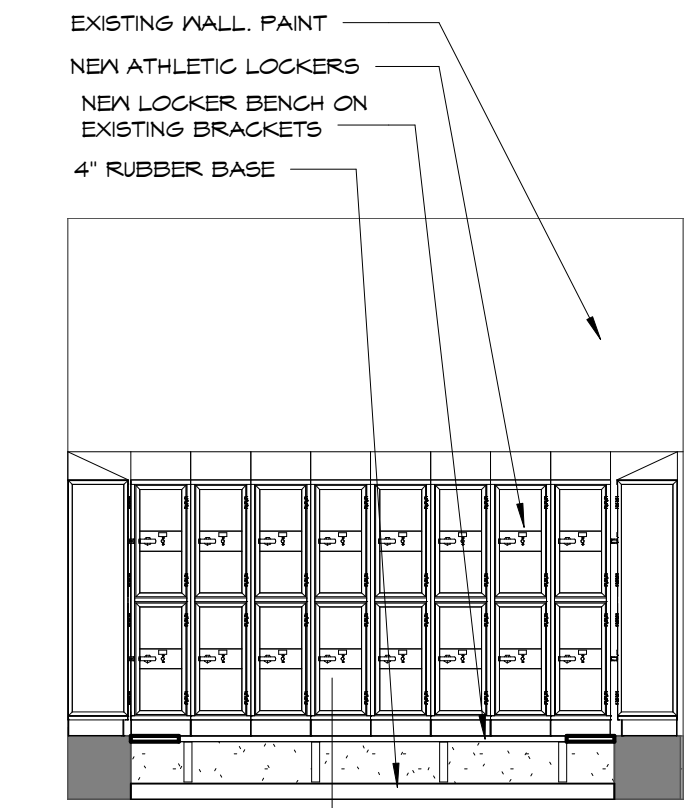
7 150 LOCKERS - WEST WALL
 A207 1/4" = 1'-0"



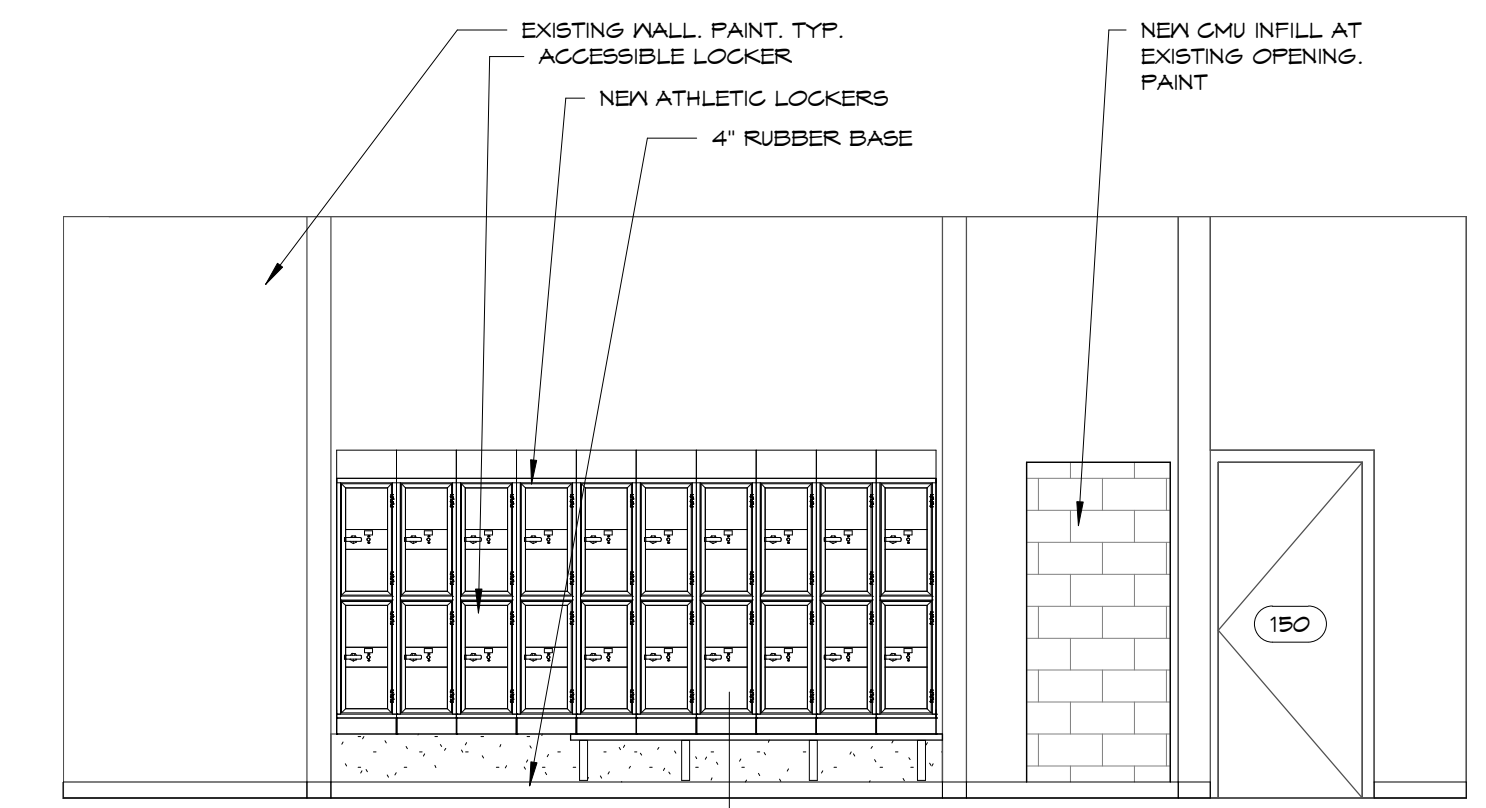
8 150 LOCKERS - SOUTH WALL
 A207 1/4" = 1'-0"



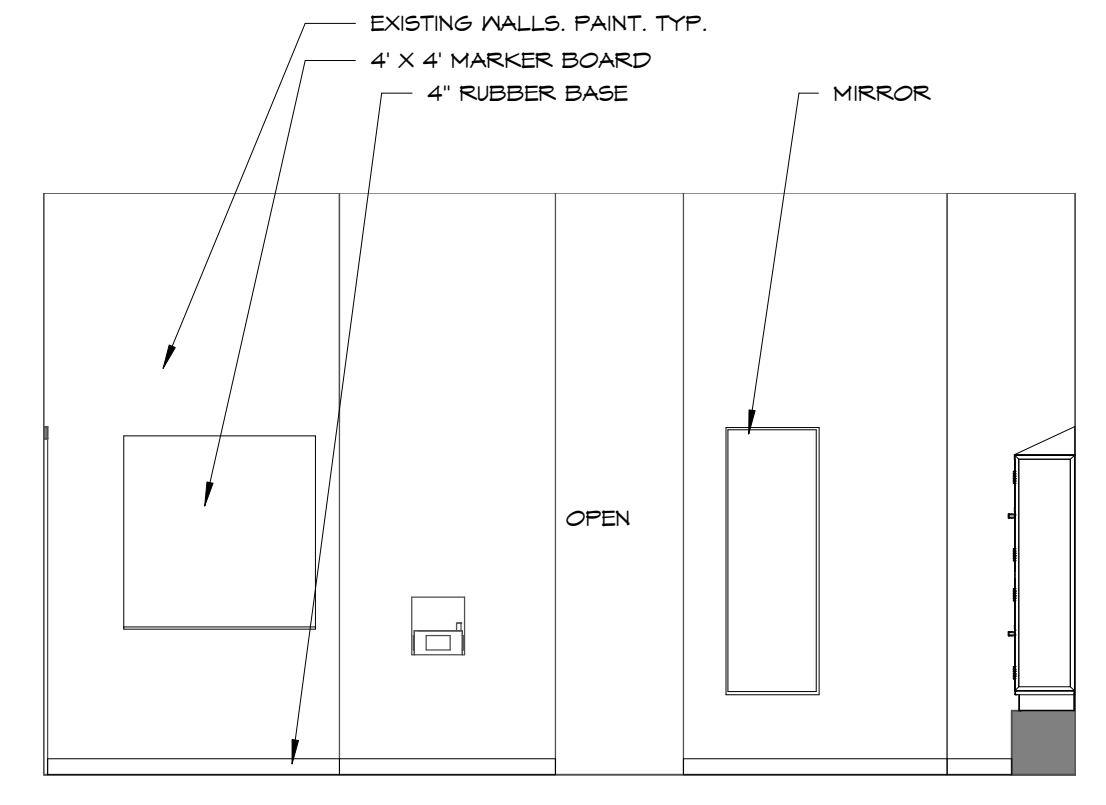
9 150 LOCKERS - PARTIAL SOUTH WALL
 A207 1/4" = 1'-0"



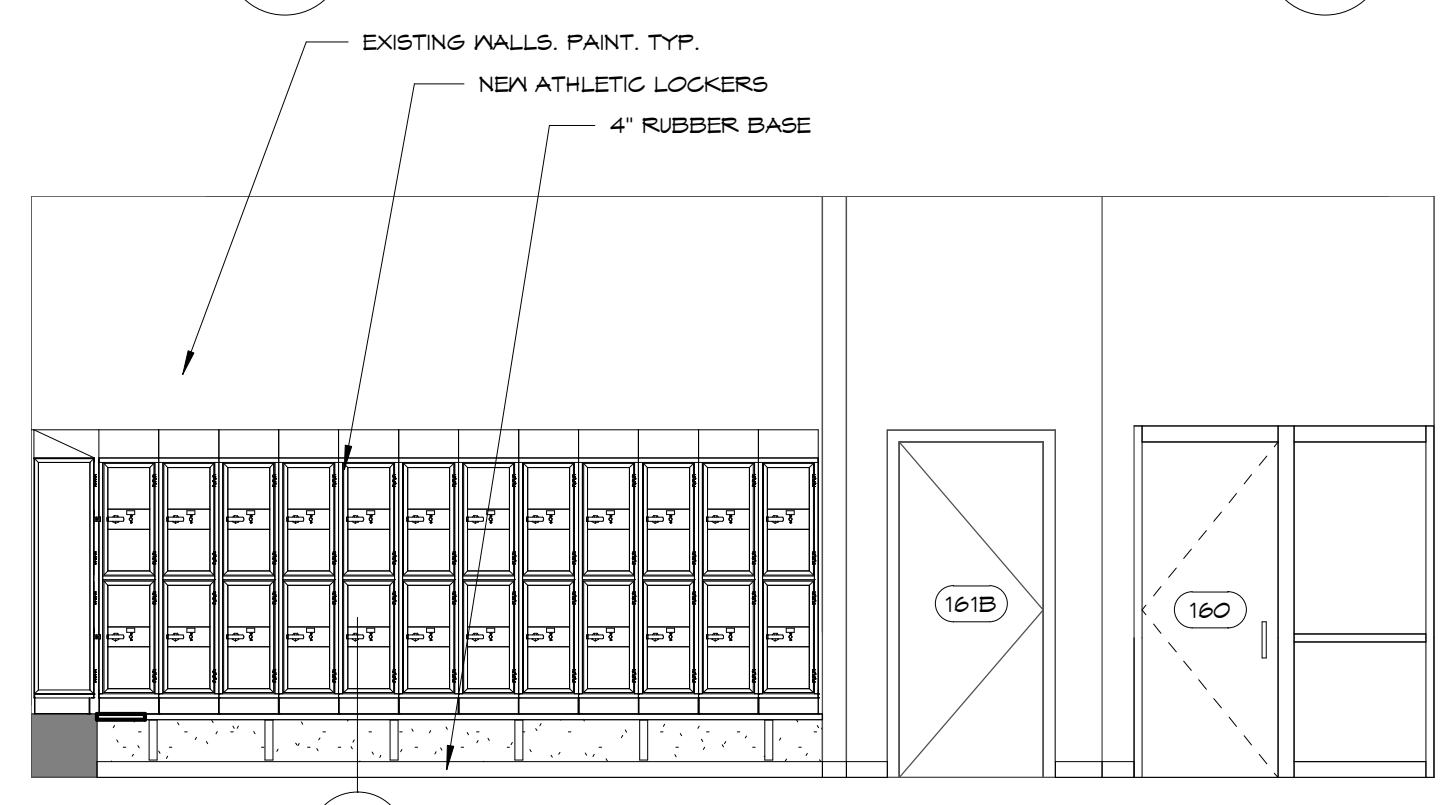
10 155 LOCKERS - EAST WALL
 A207 1/4" = 1'-0"



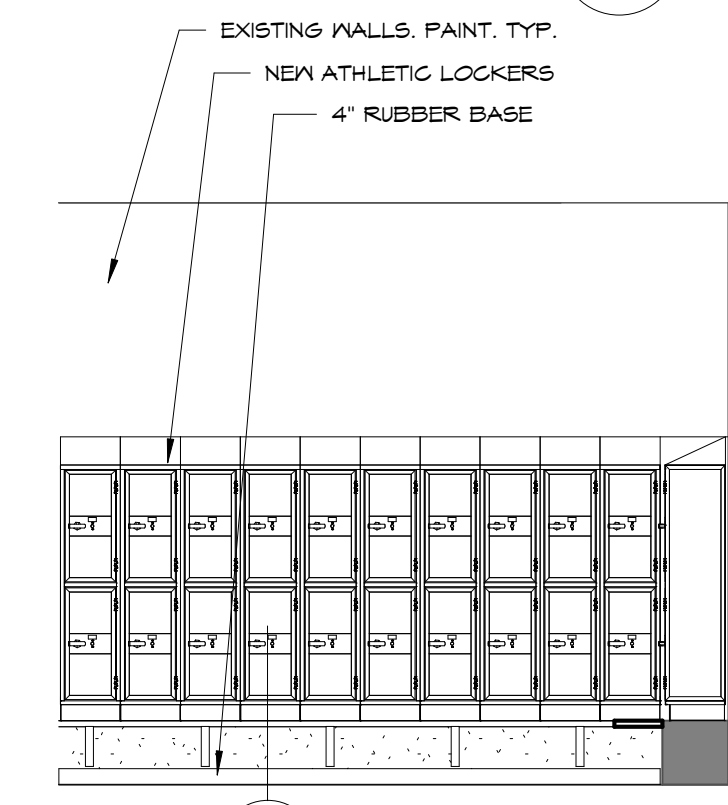
11 155 LOCKERS - NORTH WALL
 A207 1/4" = 1'-0"



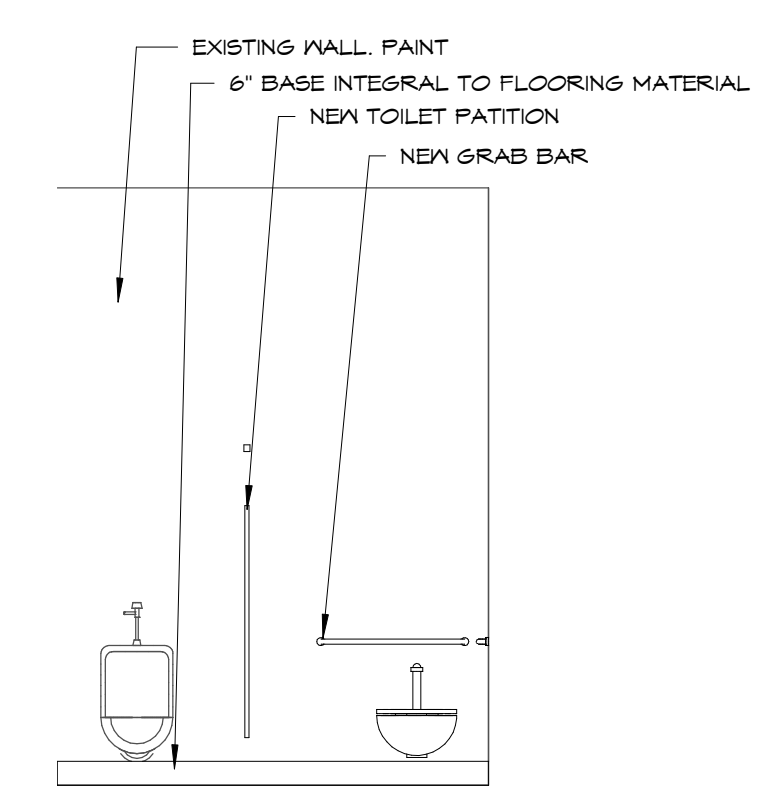
12 155 LOCKERS - WEST WALL
 A207 1/4" = 1'-0"



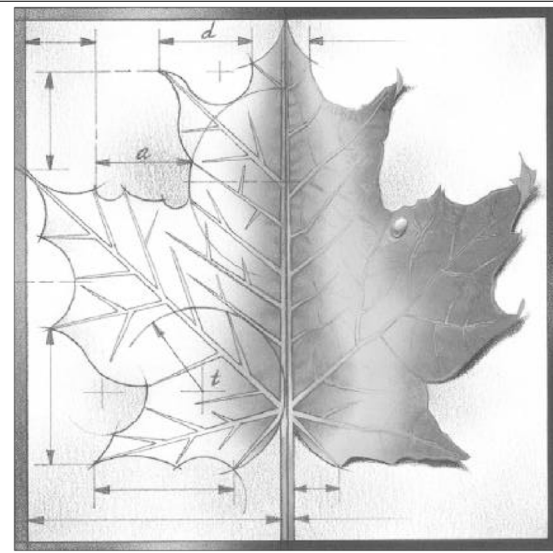
13 155 LOCKERS - SOUTH WALL
 A207 1/4" = 1'-0"



14 155 LOCKERS - PARTIAL NORTH WALL
 A207 1/4" = 1'-0"



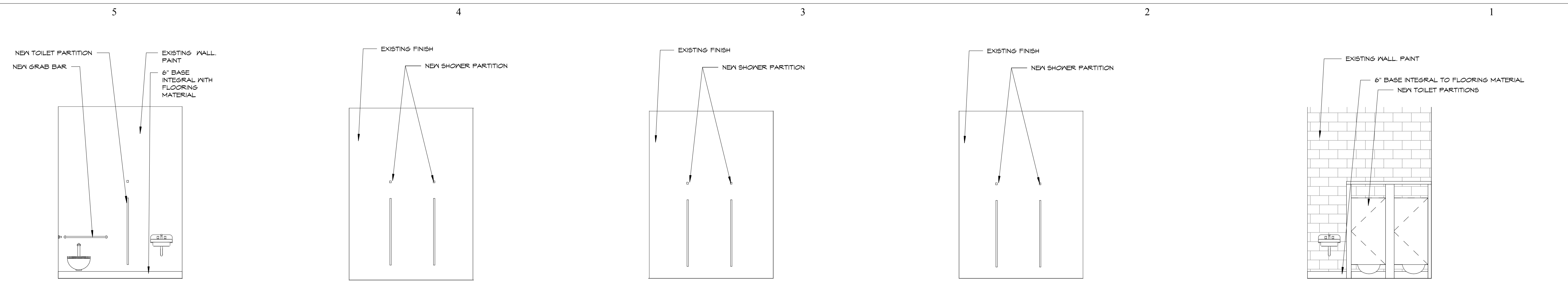
15 152 TOILETS - SOUTH WALL
 A207 1/4" = 1'-0"



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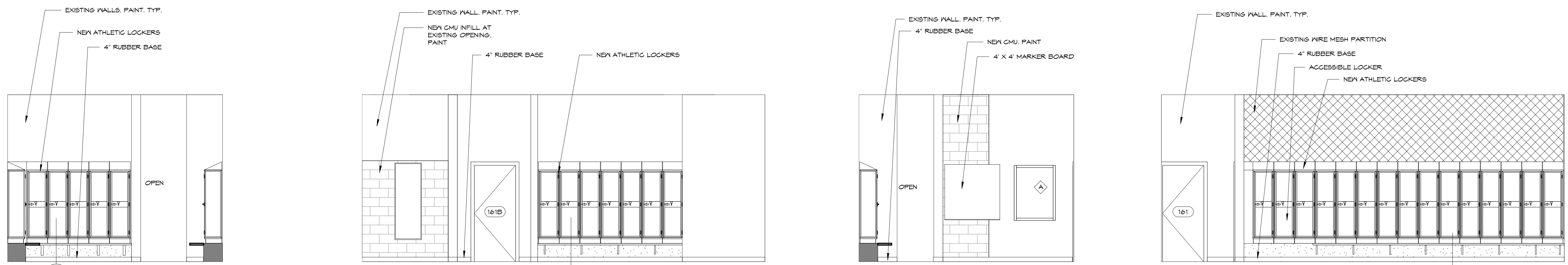
1 156 TOILETS - NORTH WALL
 A208 1/4" = 1'-0"

2 151 SHOWER - NORTH WALL
 A208 1/4" = 1'-0"

3 151 SHOWER - SOUTH WALL
 A208 1/4" = 1'-0"

4 162 SHOWERS - NORTH WALL
 A208 1/4" = 1'-0"

5 163 TOILETS - SOUTH WALL
 A208 1/4" = 1'-0"

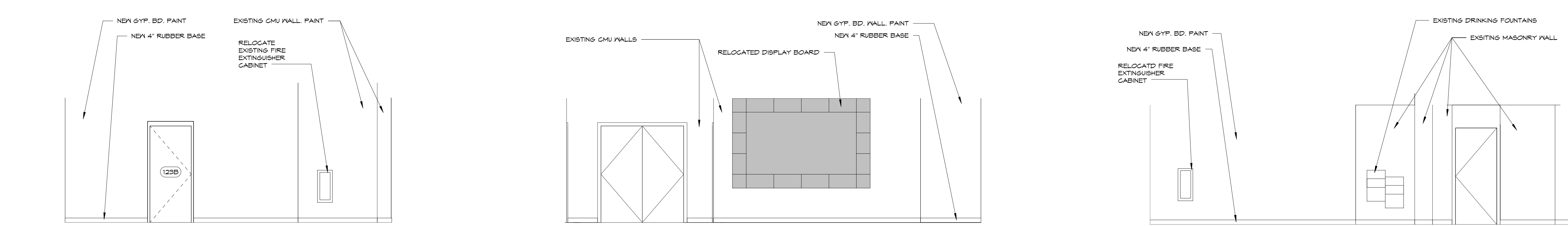


6 161 LOCKERS - EAST WALL
 A208 1/4" = 1'-0"

7 161 LOCKERS - NORTH WALL
 A208 1/4" = 1'-0"

8 161 LOCKERS - WEST WALL
 A208 1/4" = 1'-0"

9 161 LOCKERS - SOUTH WALL
 A208 1/4" = 1'-0"



10 123A STUDENT AREA - EAST WALL
 A208 1/4" = 1'-0"

11 123A STUDENT AREA - NORTH WALL
 A208 1/4" = 1'-0"

12 213 STUDENT AREA - EAST WALL
 A208 1/4" = 1'-0"



13 213 STUDENT AREA - NORTH WALL
 A208 1/4" = 1'-0"

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REV	DESC	DATE
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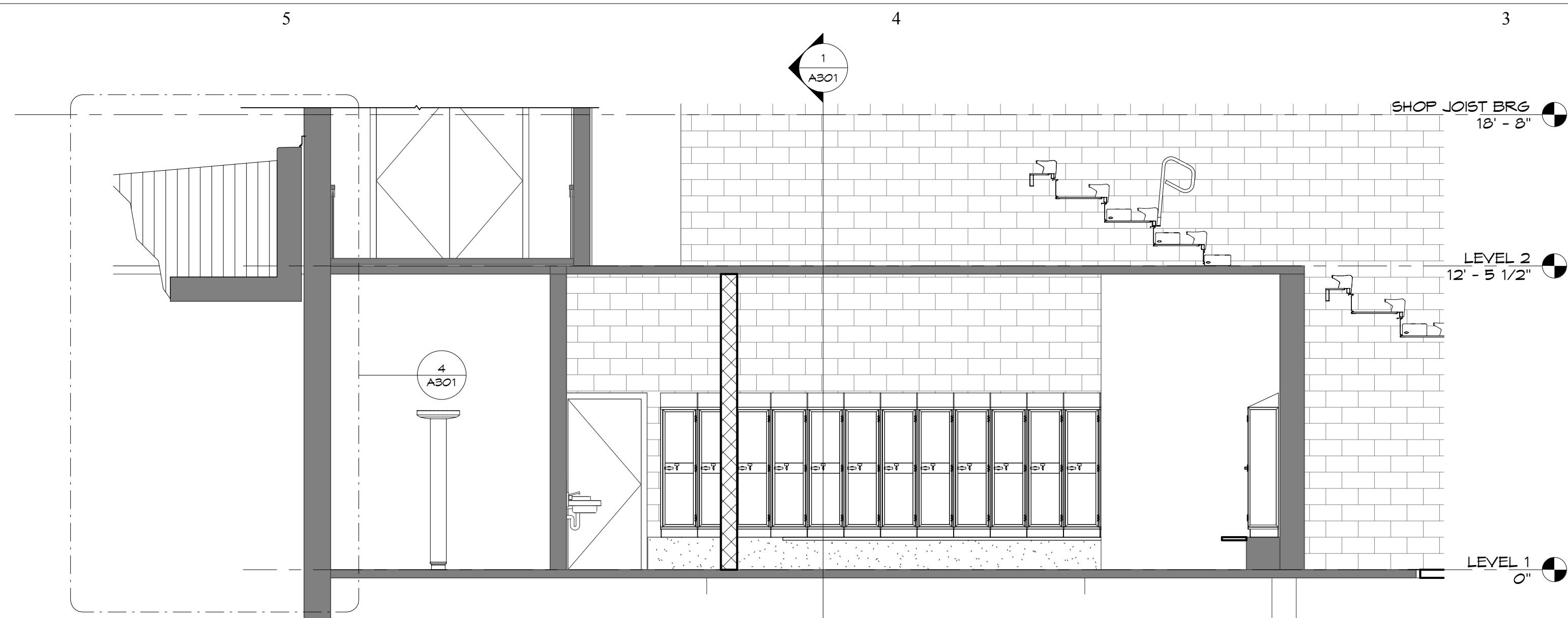
Project Number: **16036**
 Date: **Issue Date**

Project Name:
USD 320 WAMEGO HIGH SCHOOL IMPROVEMENTS

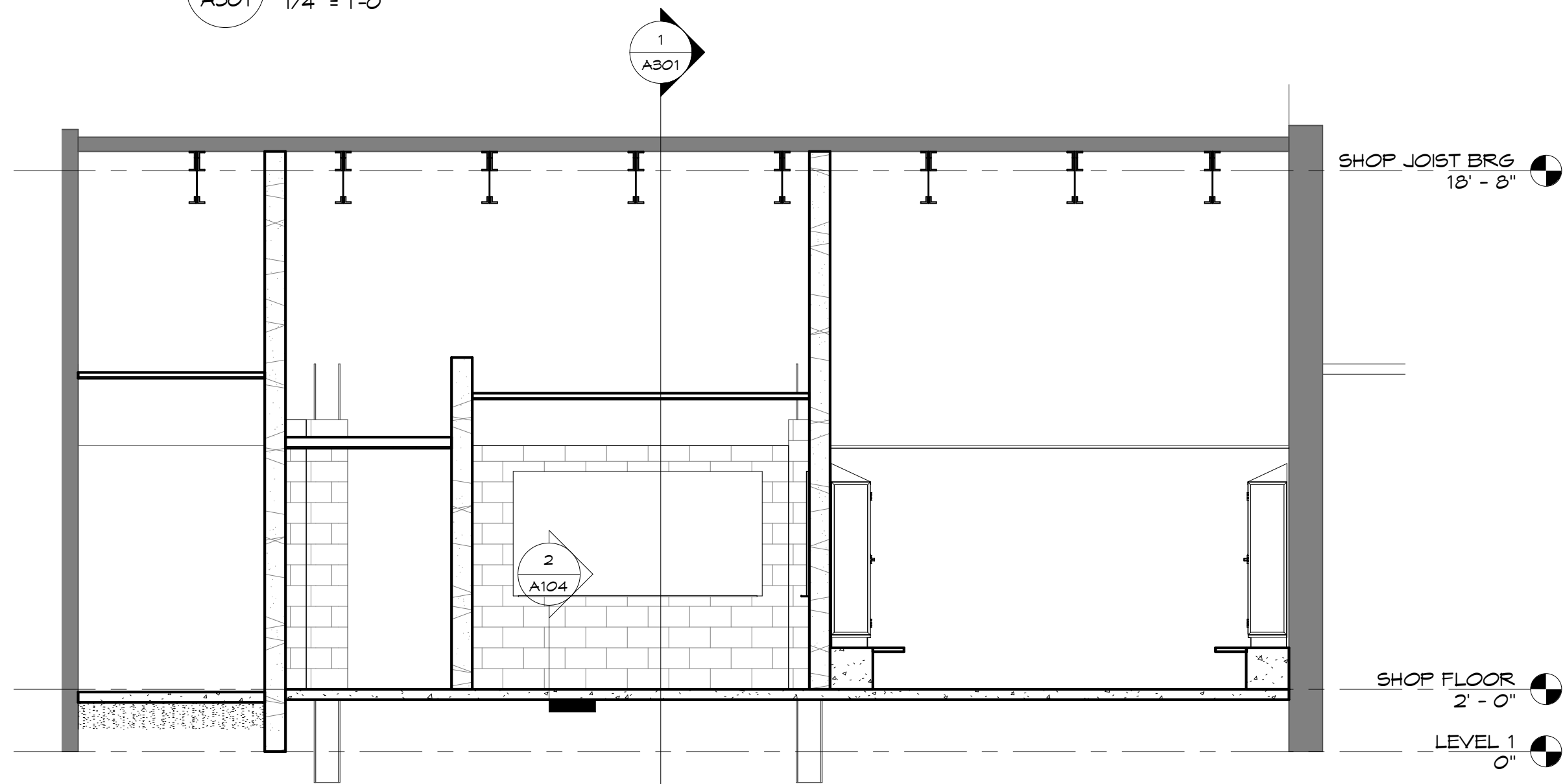
Project Address:
**801 LICNOLN AVENUE
 WAMEGO, KS 66547**

Sheet Title:
INTERIOR ELEVATIONS

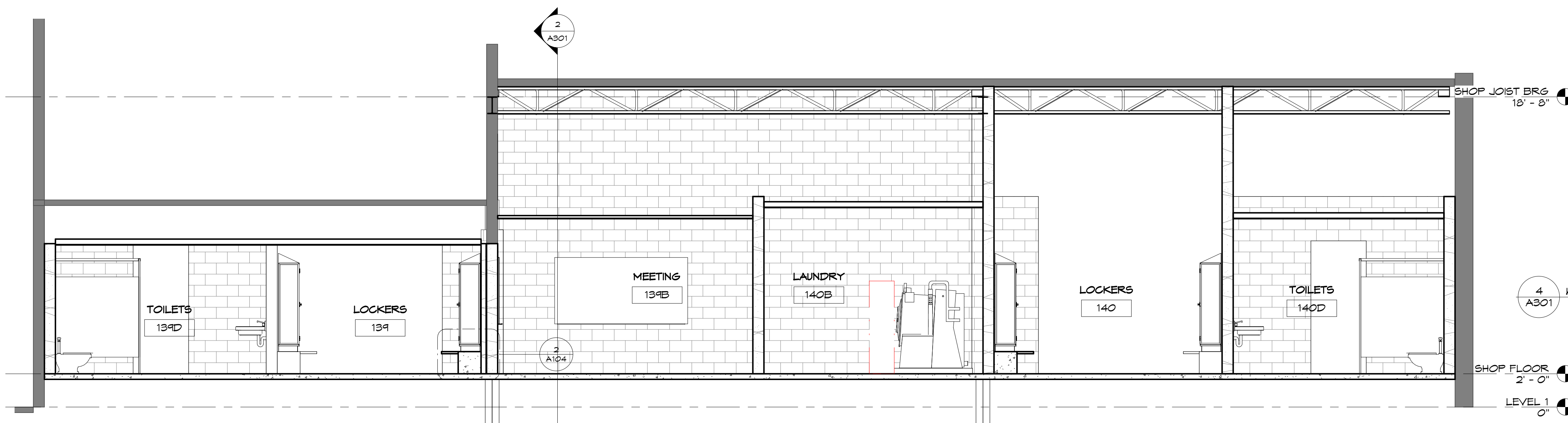
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A208
 of:



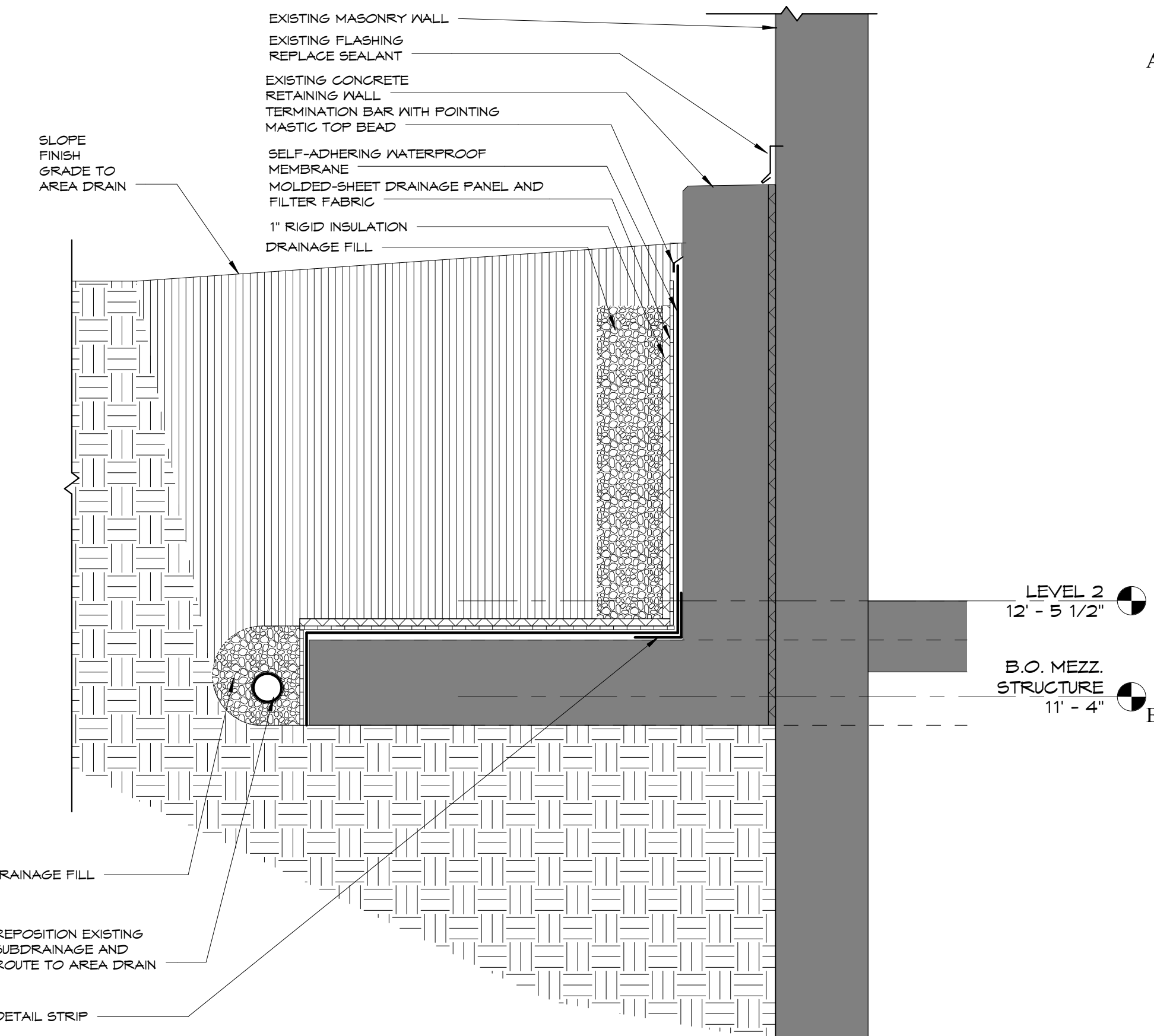
3 CROSS SECTION AT RENOVATED LOCKER ROOMS
A301 1/4" = 1'-0"



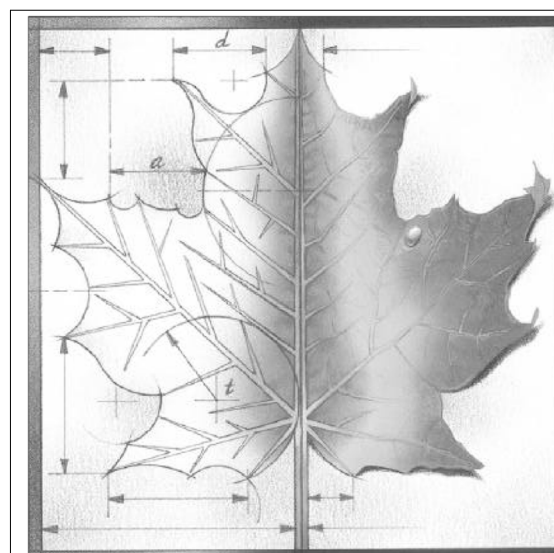
2 CROSS SECTION AT NEW LOCKER ROOMS
A301 1/4" = 1'-0"



1 SECTION AT NEW LOCKER ROOMS
A301 1/4" = 1'-0"



4 WATERPROOFING AT EXISTING WALL
A301 3/4" = 1'-0"



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Project Number: 16036

Date: Issue Date

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USD 320 WAMEGO HIGH SCHOOL IMPROVEMENTS

Project Address:
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WAMEGO, KS 66547

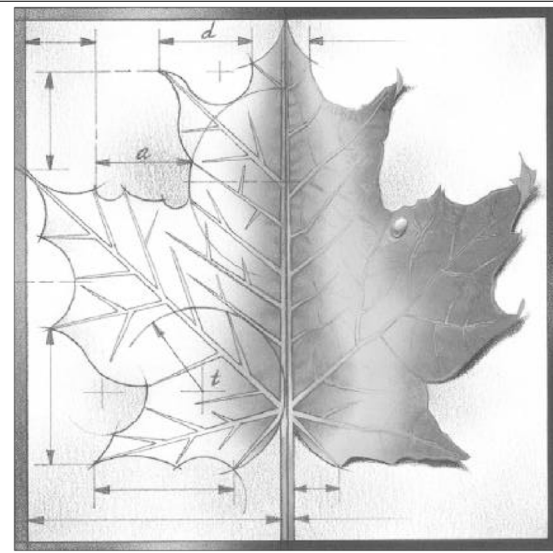
Sheet Title:

BUILDING SECTIONS

Sheet:

A301

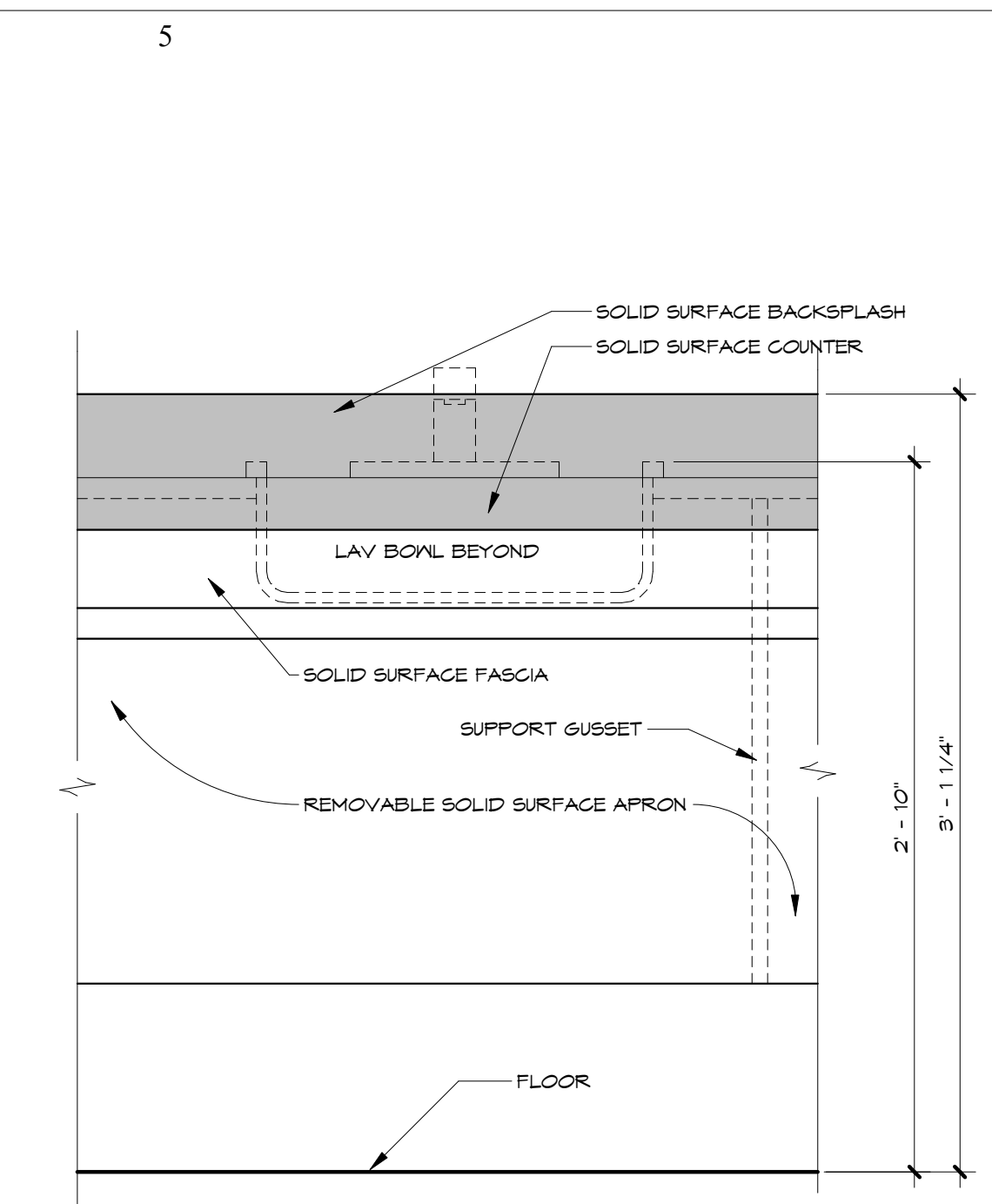
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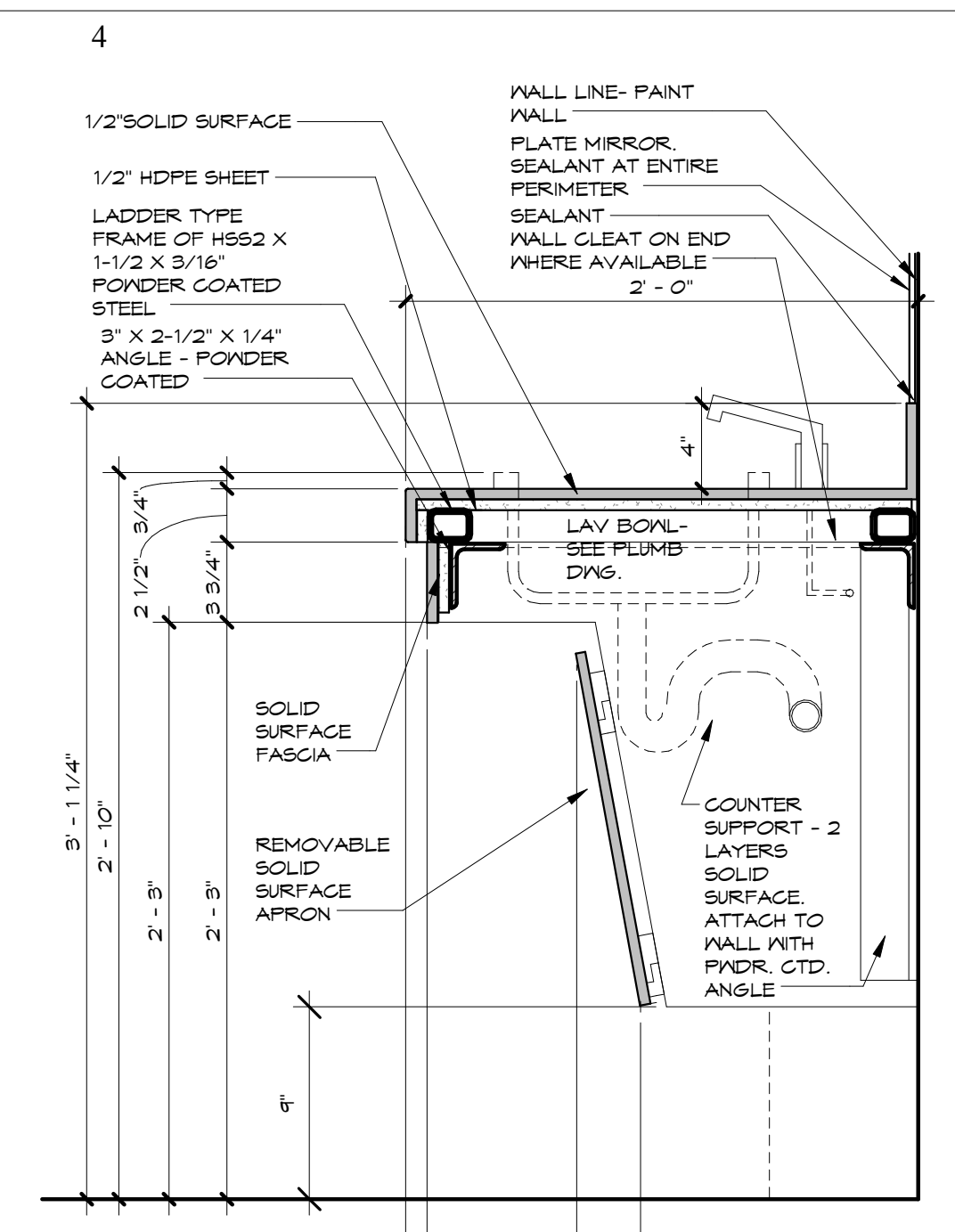
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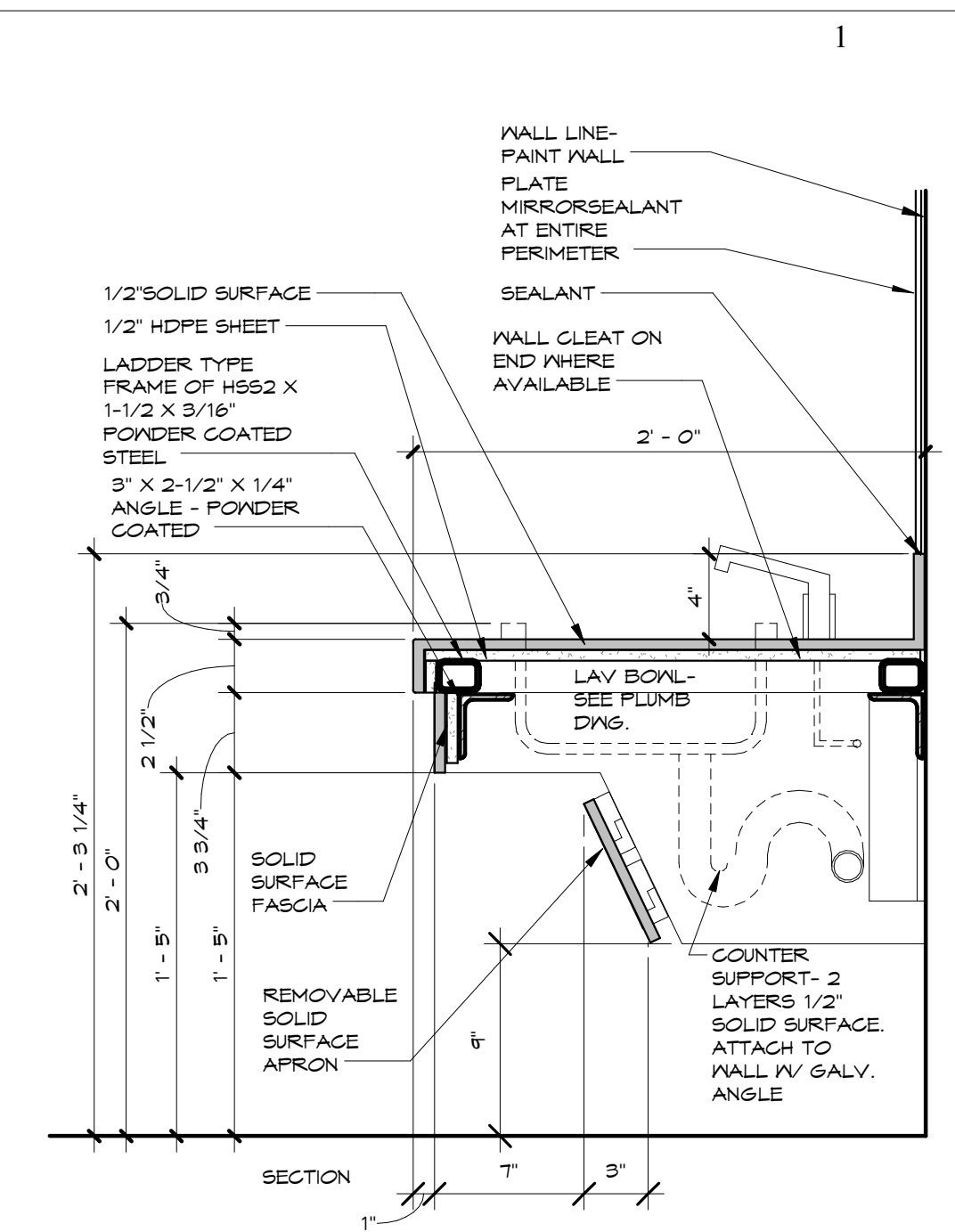
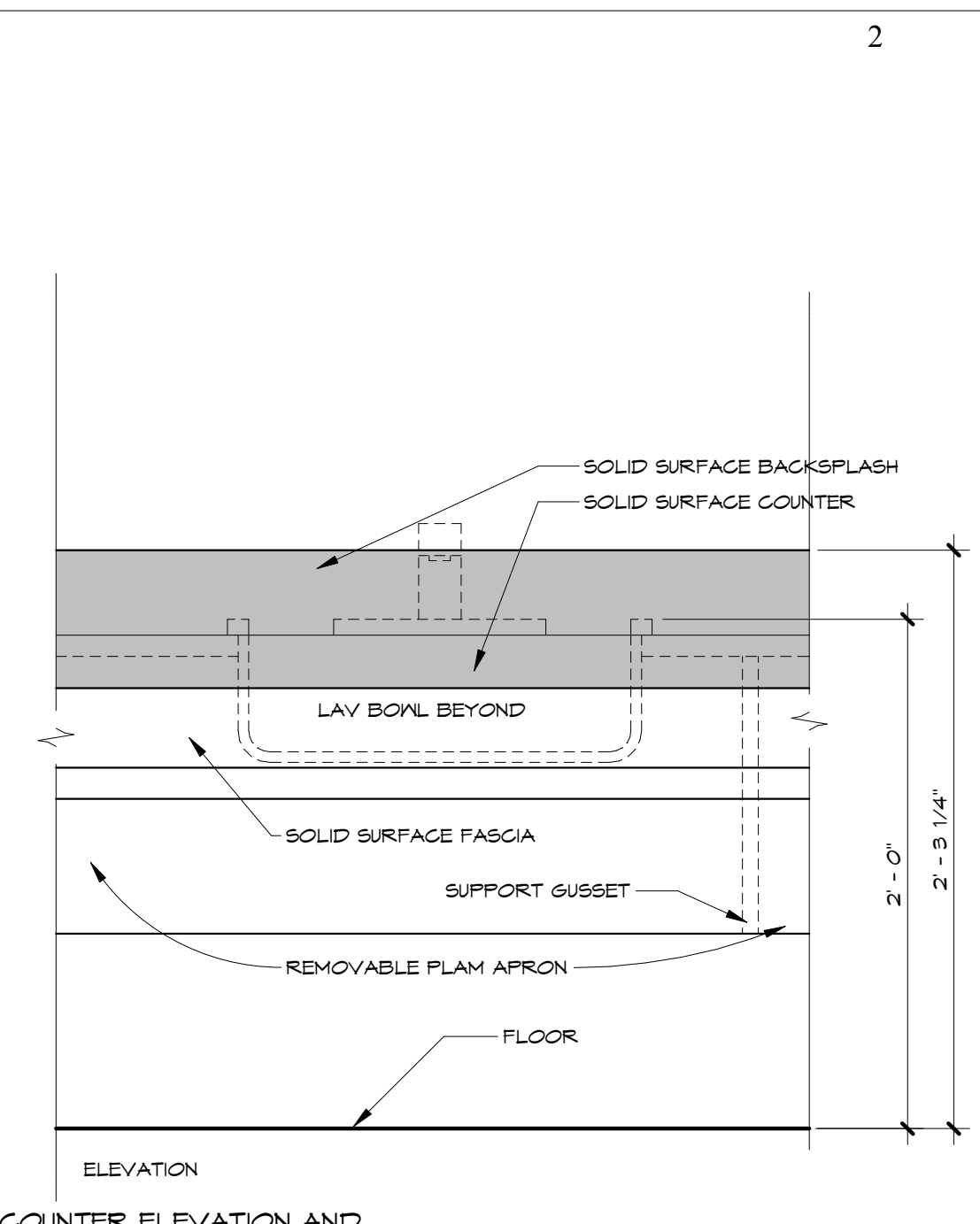
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1 LAVATORY COUNTER ELEVATION AND SECTION
A501 1 1/2" = 1'-0"



2 LAVATORY COUNTER ELEVATION AND SECTION AT PRE-K
A501 1 1/2" = 1'-0"



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REV	DESC	DATE
PRICING SET NOT FOR CONSTRUCTION		

Project Number: 16036

Date: Issue Date

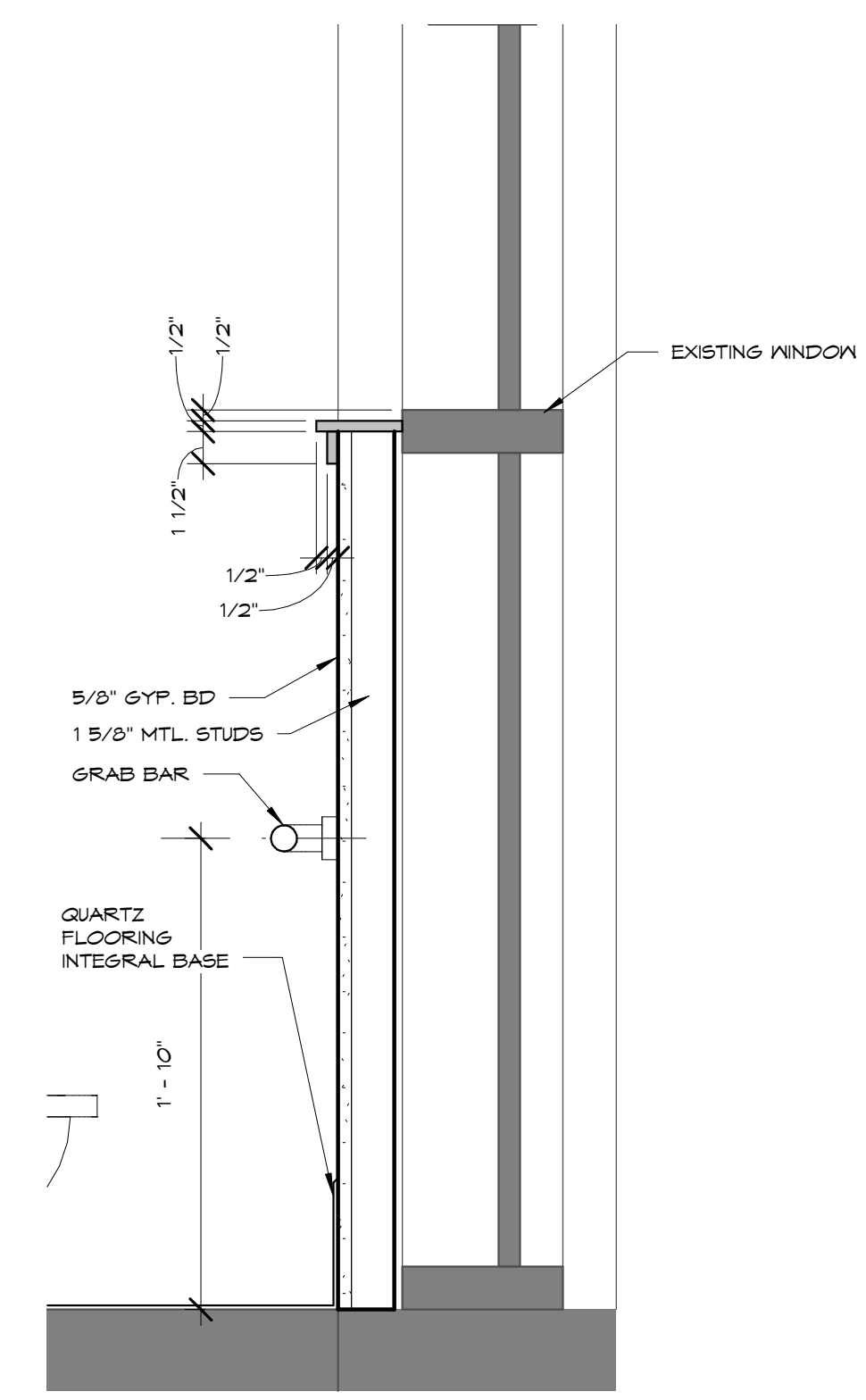
Project Name: USD 320 WAMEGO HIGH SCHOOL IMPROVEMENTS

Project Address: 801 LICNOLN AVENUE
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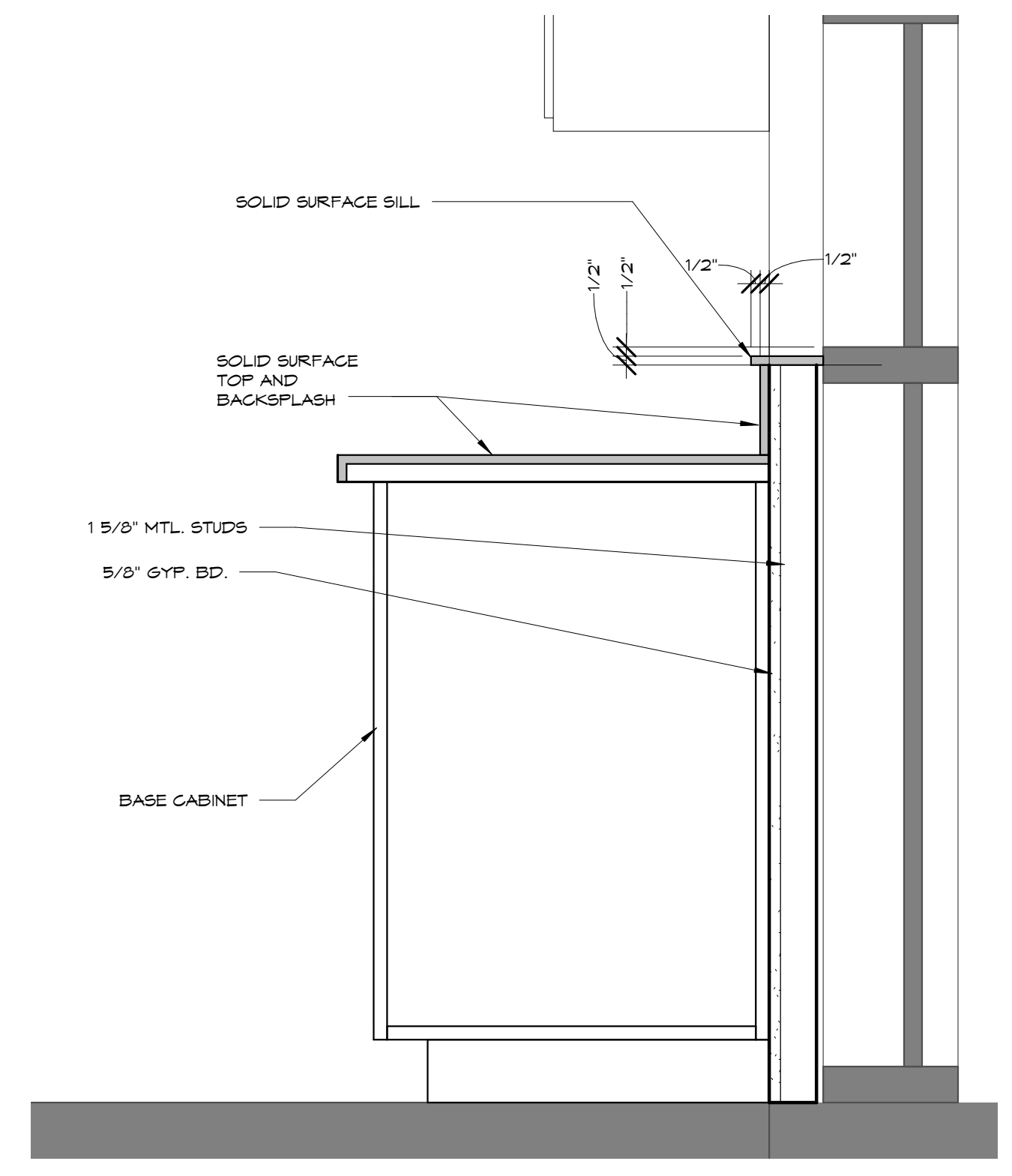
Sheet Title: DETAILS

Sheet: A501

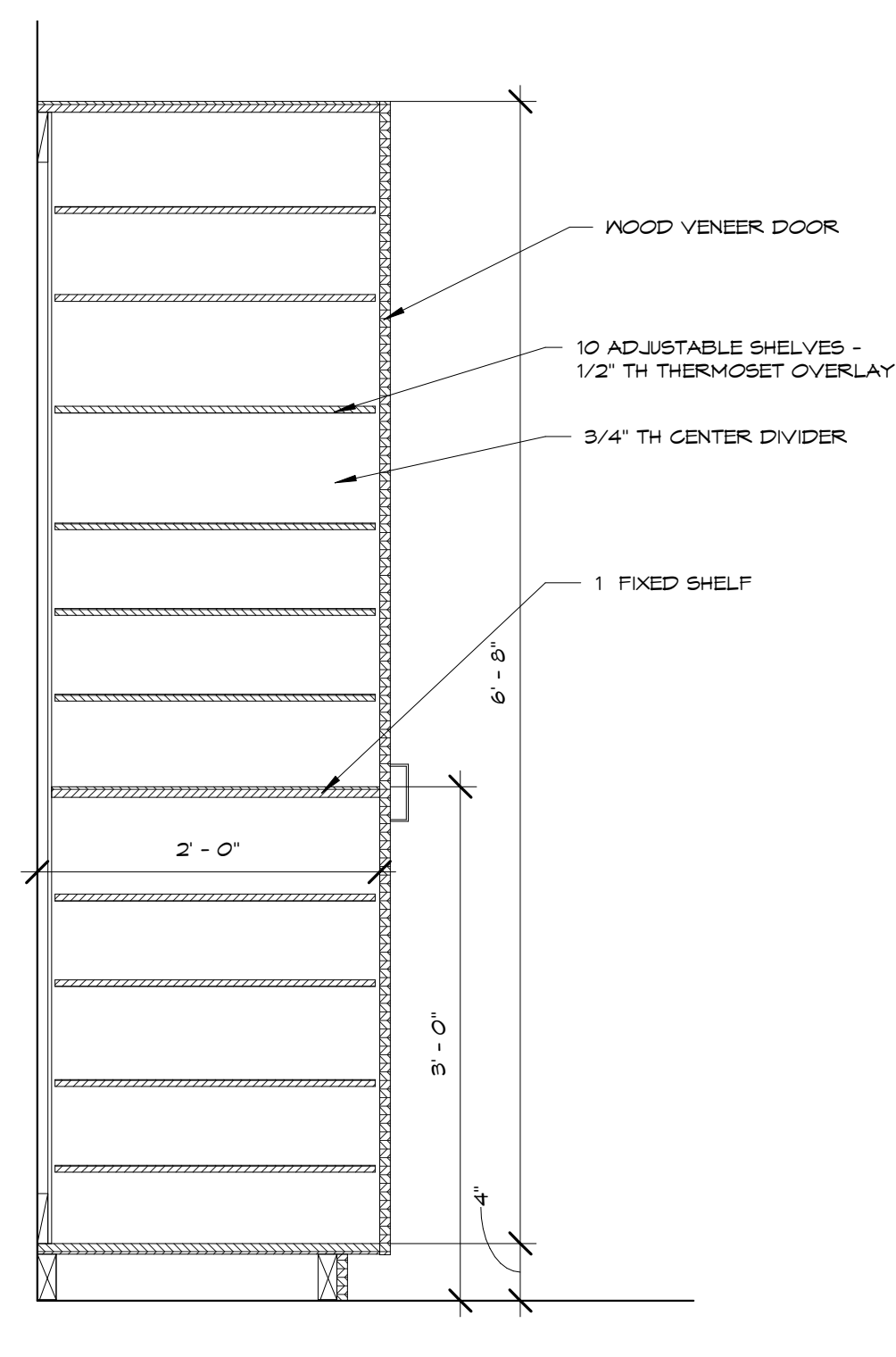
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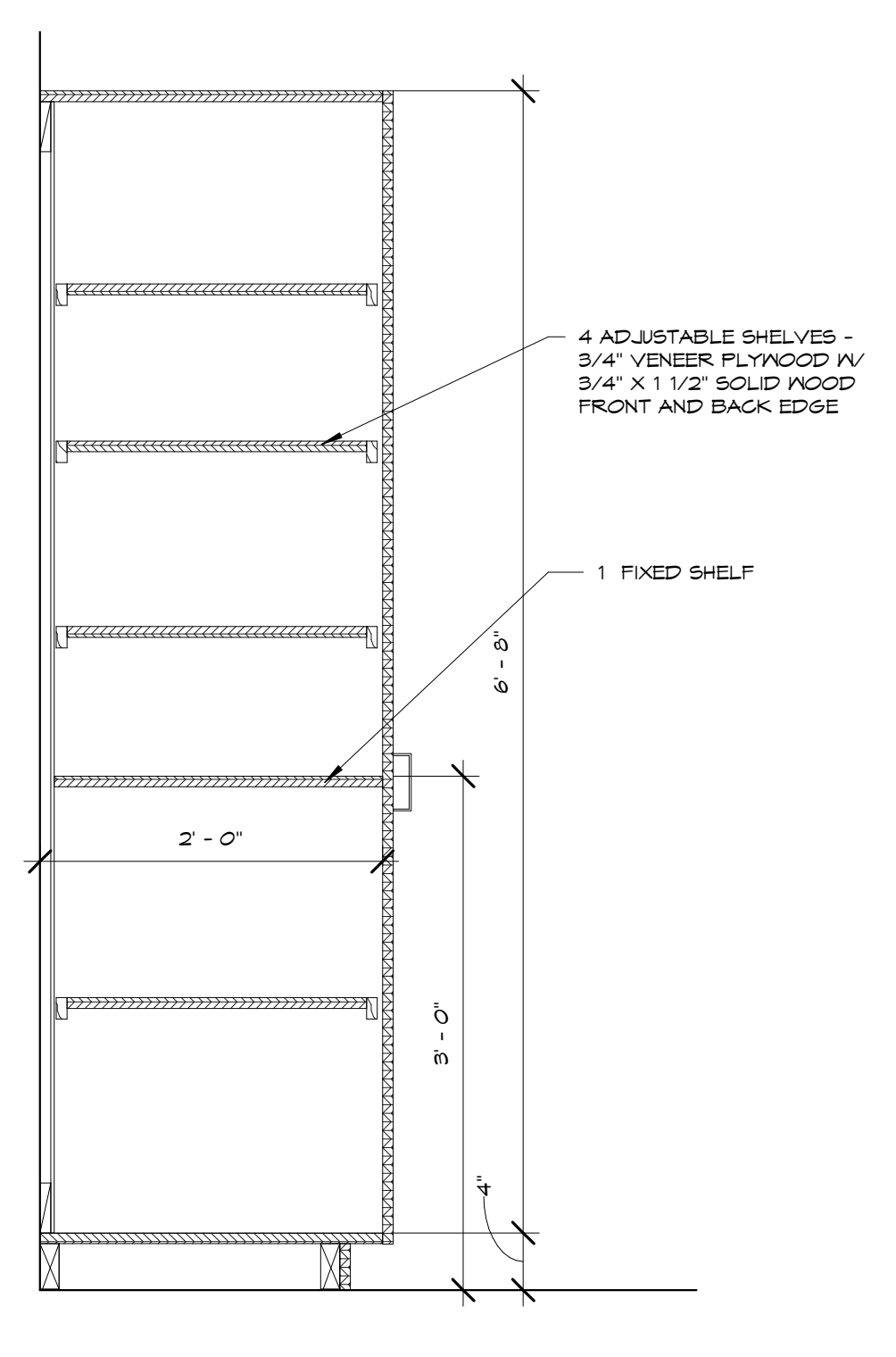
3 WINDOW DETAIL AT RESTROOM
A501 1 1/2" = 1'-0"



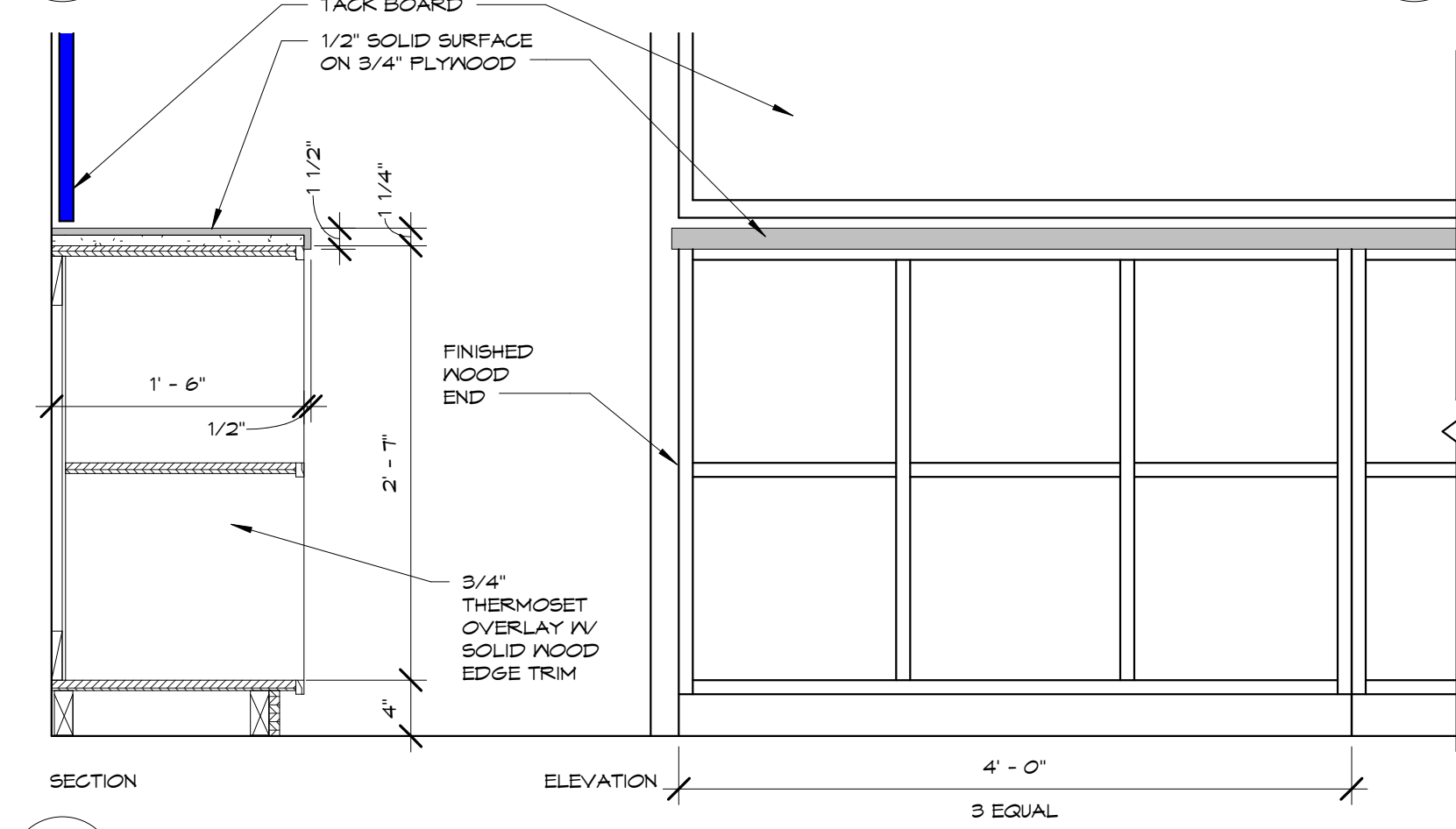
4 FACS KITCHEN COUNTER AT WINDOW
A501 1 1/2" = 1'-0"



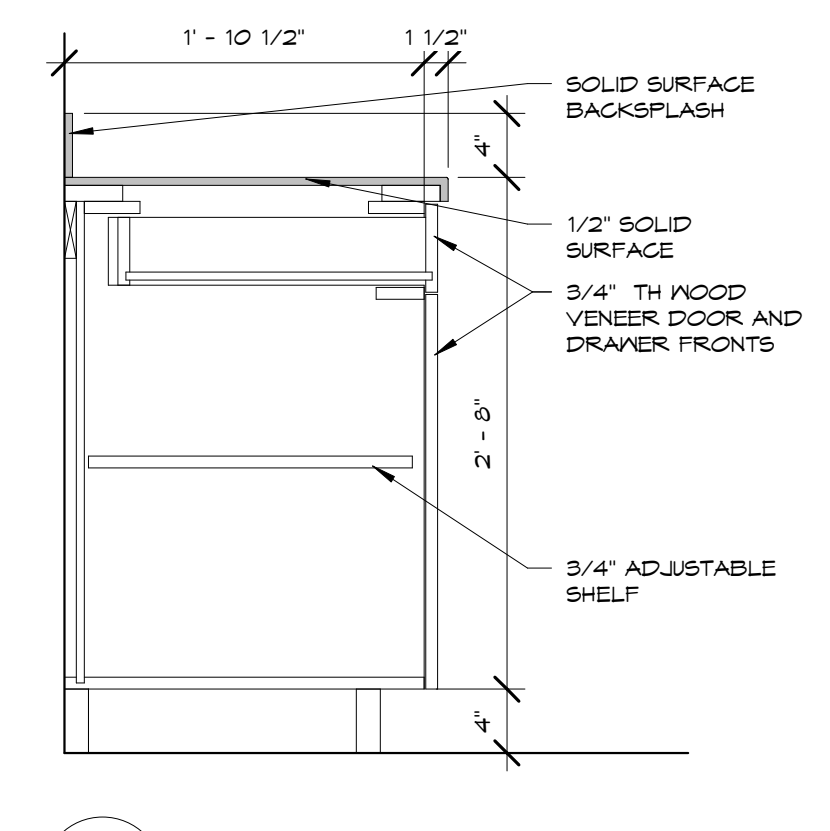
5 SECTION AT 12 SHELF TALL CABINET
A501 1" = 1'-0"



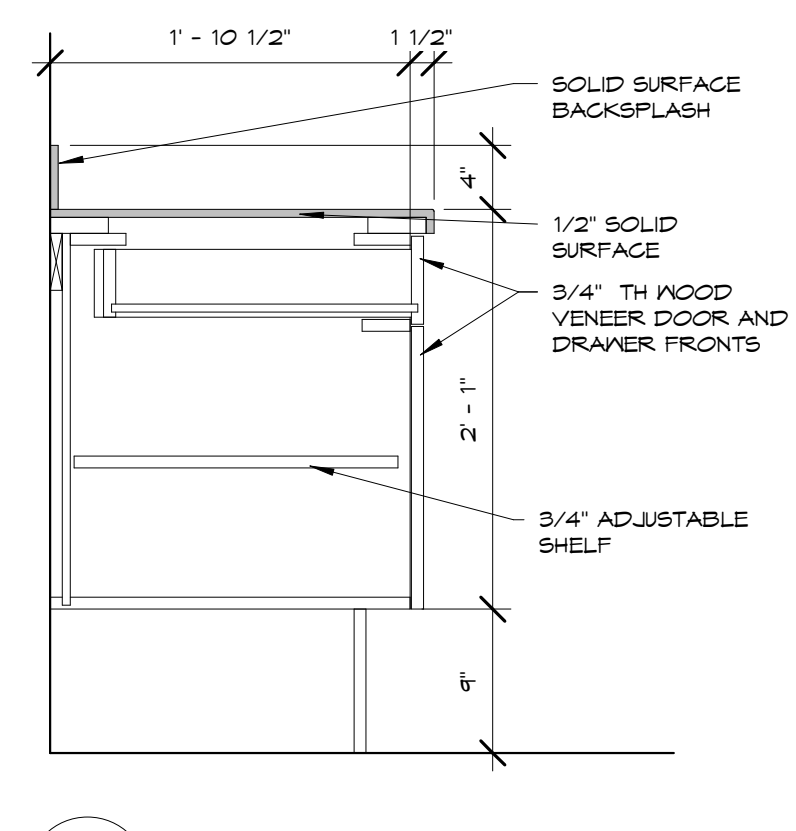
6 SECTION AT 6 SHELF TALL CABINET
A501 1" = 1'-0"



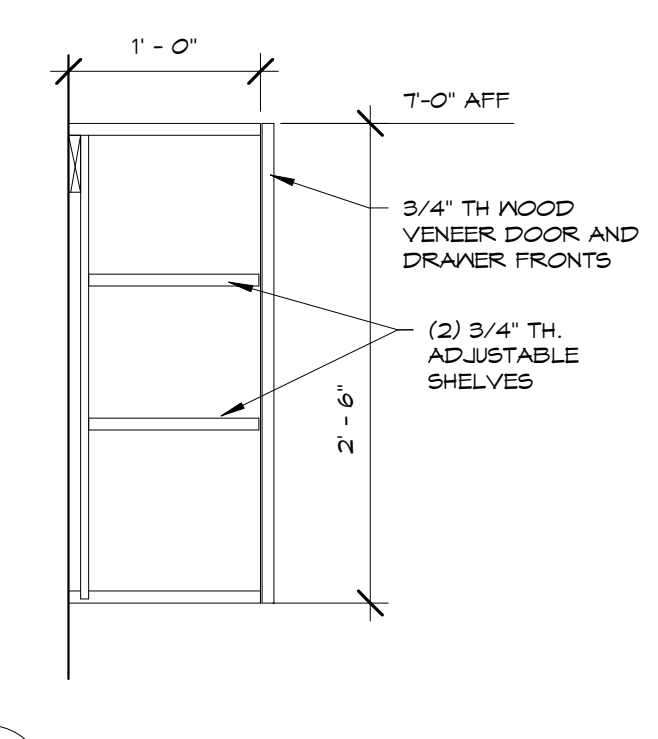
7 PRESCHOOL CUBBIES
A501 1" = 1'-0"



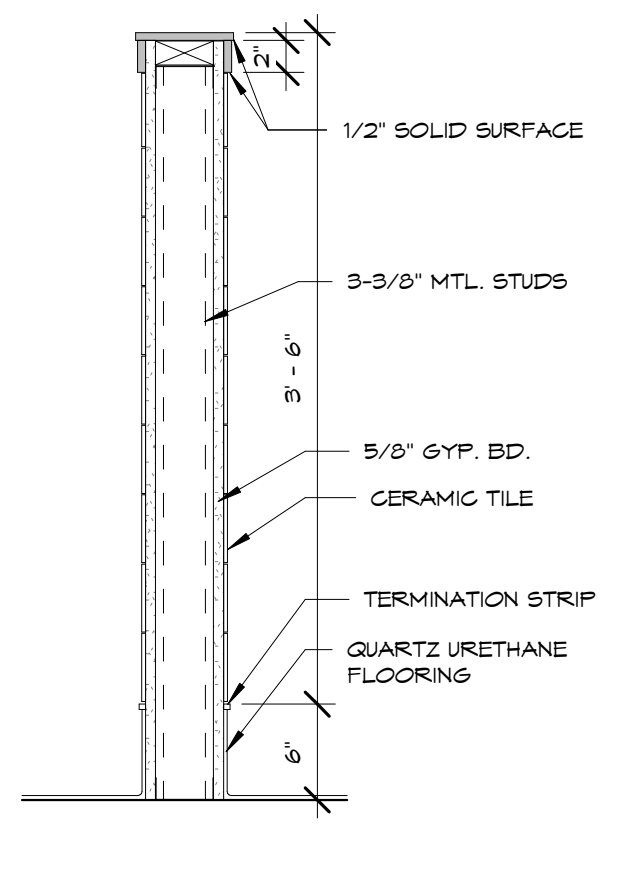
8 TYPICAL BASE CABINET
A501 1" = 1'-0"



9 ACCESSIBLE BASE CABINET
A501 1" = 1'-0"



10 TYPICAL WALL CABINET
A501 1" = 1'-0"



11 DETAIL AT HALF WALL
A501 1" = 1'-0"

ROOM FINISH SCHEDULE														
Number	Name	Floor Finish	Base Finish	North		East		South		West		Ceiling		Comments
				Material	Finish	Material	Finish	Material	Finish	Material	Finish	Finish	Height	
110	WOMEN	Q.F.	Q.F.	EF	PT	EF	PT	EF	PT	EF	PT	APC-2		1
111	MEN	Q.F.	Q.F.	EF	PT	EF	PT	EF	PT	EF	PT	APC-2		1
112	CLASSROOM	VCT	R	CMU	PT	EF	PT	EF	PT	EF	PT	E		
113	CORRIDOR	---	---	---	---	---	---	---	---	---	---	---		
115	PRESCHOOL	VCT	R	GWB	PT	GWB	PT	CMU	PT	EF	PT	APC-2	9' - 4"	
116	RESTROOM	Q.F.	Q.F.	GWB	EPX	EF	EPX	GWB	EPX	GWB	EPX	APC-2	9' - 4"	
117	KITCHEN	Q.U.F.	Q.U.F.	GWB	PT	EF/GWB	PT	GWB	PT	GWB	PT	APC-1	8' - 0"	
118	FACS	Q.U.F.	Q.U.F.	EF/GWB	EPX	EF/GWB	EPX	GWB	EPX	EF	EPX	APC-1		
119	EQUIP.	Q.U.F.	Q.U.F.	EF	EPX	EF	EPX	EF/GWB	EPX	EF	EPX	APC-1	9' - 4"	
123A	STUDENT AREA	EF	EF	EF	PT	GWB	PT	EF	---	EF	---	EF/GWB		
123B	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	CMU	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
213	STUDENT AREA	EF	EF	EF	PT	EF/GWB	PT	EF	---	EF	---	EF/GWB		
237	UPPER GYMNASIUM													

FLOOR FINISH EF - EXISTING FINISH EXP - EXPOSED SEALED CONCRETE TAF - TROWELLED AGGREGATE FLOORING QF - QUARTZ FLOORING QUF - QUARTZ URETHANE FLOORING VCT - VINYL COMPOSITION TILE SC - SEAL EXISTING CONCRETE	BASE MATERIAL EF - EXISTING FINISH R - 4" RUBBER COVE BASE TAF - TROWELLED AGGREGATE FLOORING - INTEGRATED BASE 6" QF - QUARTZ FLOORING - INTEGRATED BASE 6" QUF - QUARTZ URETHANE FLOORING - INTEGRATED BASE 6"	WALL MATERIAL EF - EXISTING MATERIAL GWB - GYPSUM WALL BOARD CMU - CONCRETE MASONRY UNITS	WALL FINISH EF - EXISTING FINISH PT - PAINT EPT - EPOXY PAINT FRP - FIBERGLASS REINFORCED PLASTIC WALL PANELS	CEILING EF - EXISTING FINISH GWB - PAINTED GYPSUM WALL BOARD EPX - EPOXY PAINT APC1- ACOUSTICAL PANEL CEILING - TYPE 1 APC2- ACOUSTICAL PANEL CEILING - TYPE 2 EXP - EXPOSED STRUCTURE	COMMENTS: 1. PROVIDE NEW PANELS IN EXISTING SUSPENSION SYSTEM 2. PATCH AND PAINT WALL AT RELOCATED GRILL. PAINT ENTIRE WALL CORNER TO CORNER
---	--	---	--	---	---

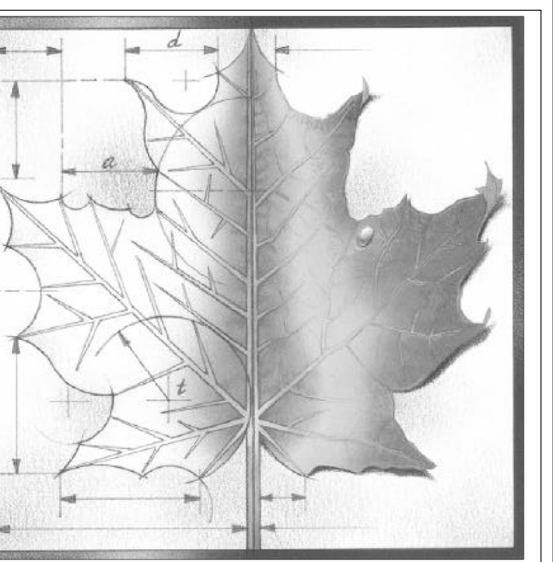
ROOM FINISH SCHEDULE LEGEND
1/4" = 1'-0"

A

B

C

D



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REV	DESC	DATE
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PRICING SET
NOT FOR CONSTRUCTION

Project Number: **16036**

Date: **Issue Date**

Project Name:

USD 320 WAMEGO HIGH SCHOOL IMPROVEMENTS

Project Address:
801 LICNOLN AVENUE
WAMEGO, KS 66547

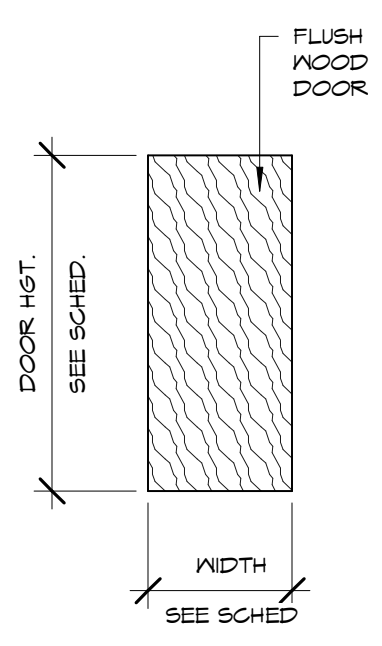
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FINISH SCHEDULE

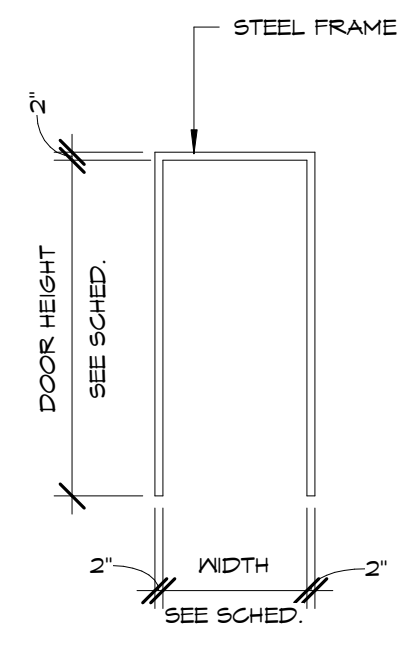
Sheet:

A601

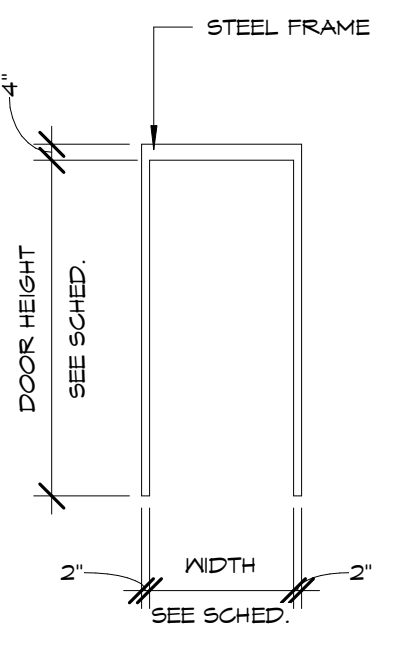
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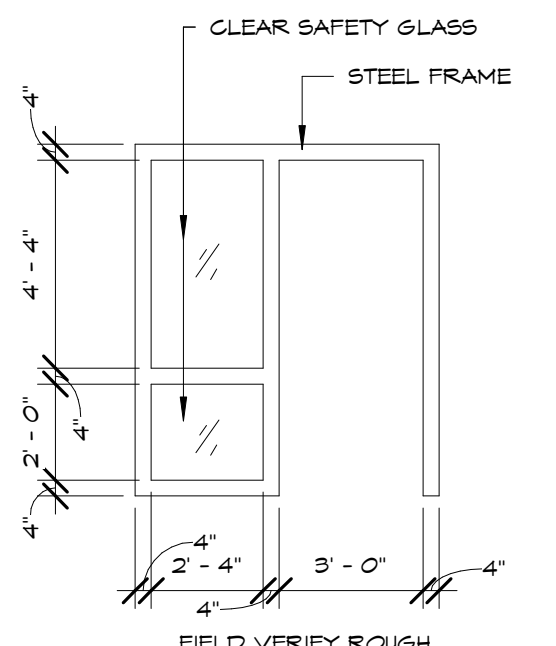
1 DOOR TYPES
A701 1/4" = 1'-0"



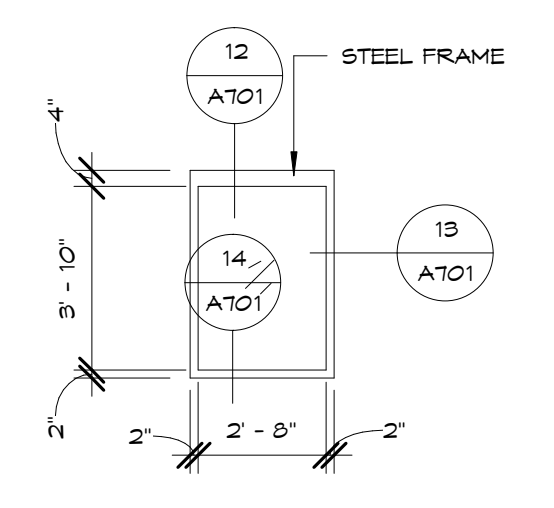
2 DOOR FRAME TYPES
A701 1/4" = 1'-0"



3 DOOR FRAME TYPES
A701 1/4" = 1'-0"



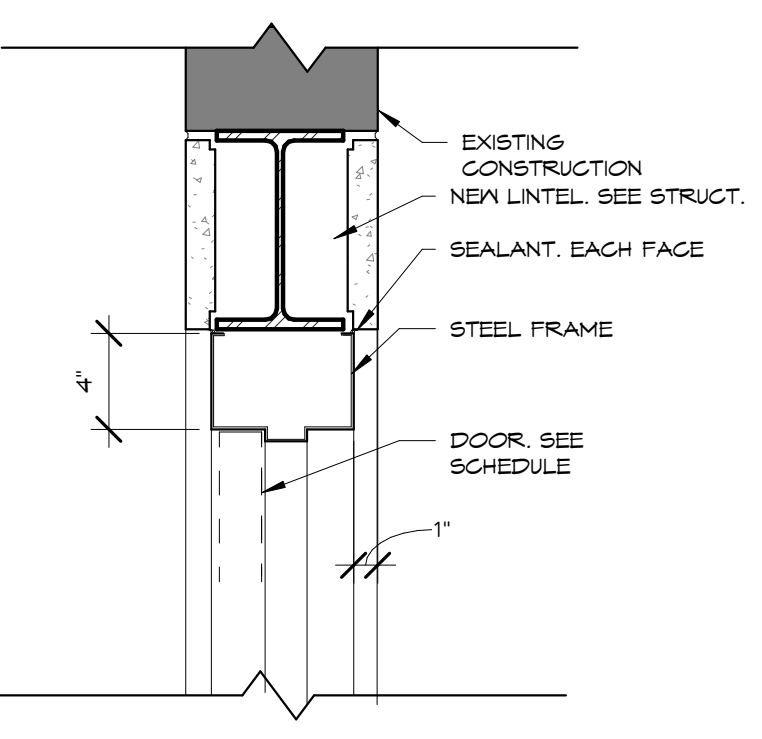
4 DOOR FRAME TYPES
A701 1/4" = 1'-0"



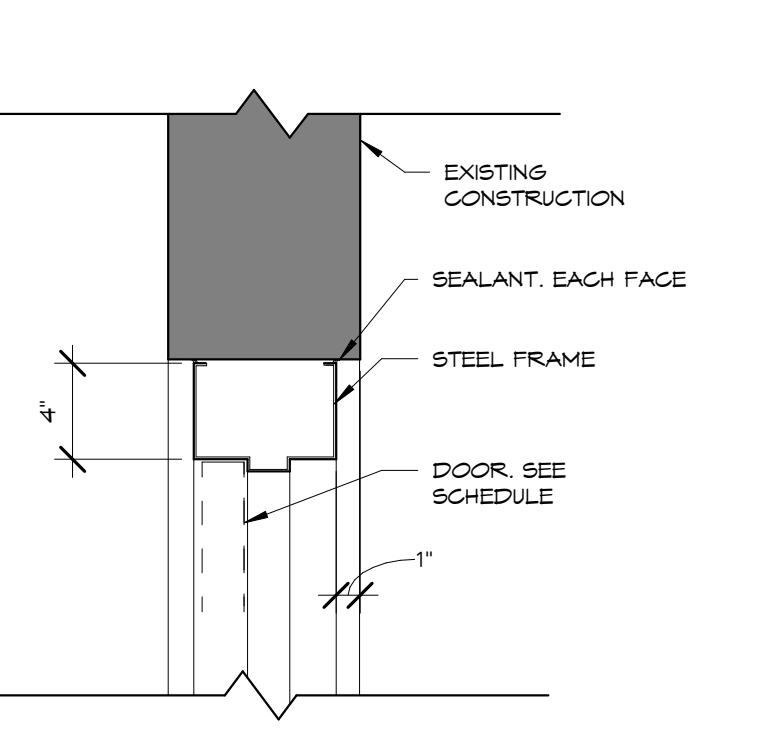
5 WINDOW TYPES
A701 1/4" = 1'-0"

DOOR	DOOR SIZE		TYPE		FIRE RATING	DETAILS			HARDWARE SET	COMMENTS
	WIDTH	HEIGHT	DOOR	FRAME		HEAD	JAMB	SILL		
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						
139B	3'-0"	7'-0"	A	HM-2						
139C	3'-0"	7'-0"	A	HM-2						
140A	3'-0"	7'-0"	A	HM-2						
140B	4'-0"	7'-0"	A	HM-2	1-HR					
140C	3'-0"	7'-0"	A	HM-2						
140D	3'-0"	7'-0"	A	HM-2	1-HR					
142	3'-0"	7'-0"	A	HM-2						
143A	3'-0"	7'-0"	EXISTING							1
143B	3'-0"	7'-0"	EXISTING							1
144	3'-0"	7'-0"	EXISTING							1
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"	EXISTING							1
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"	EXISTING							1
205	3'-0"	7'-0"	EXISTING							1
206	3'-0"	7'-0"	EXISTING							1

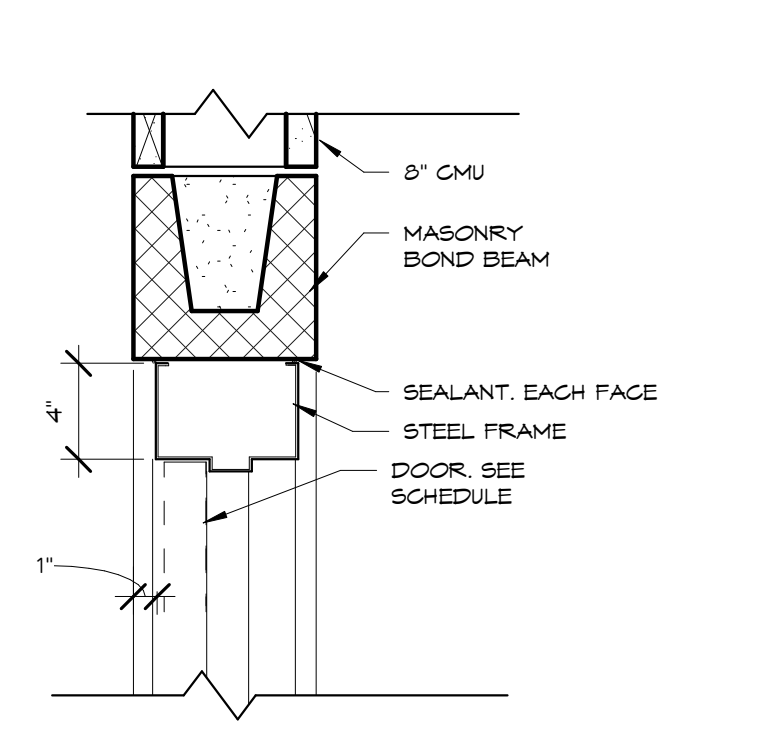
COMMENTS:
1. REFINISH EXISTING DOOR



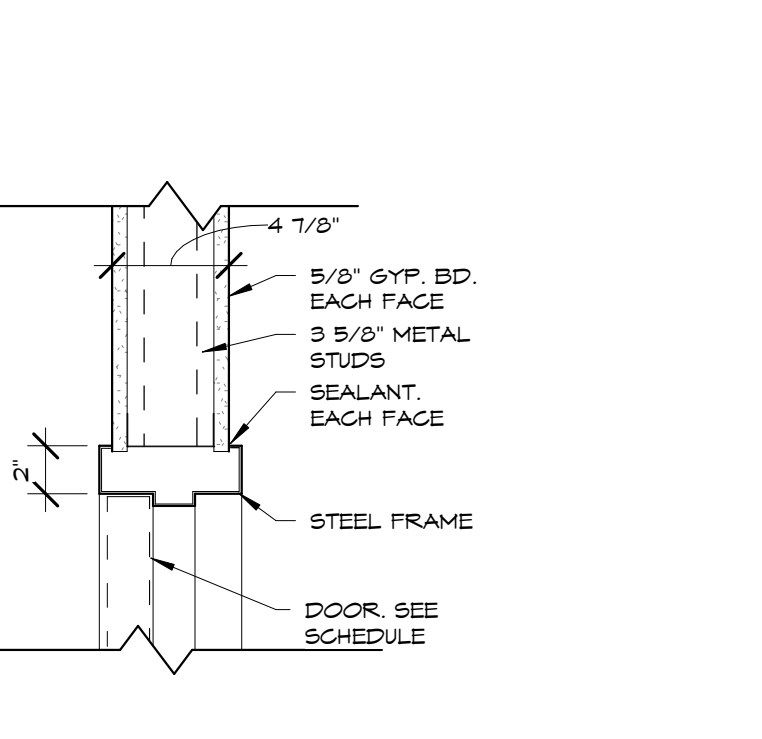
6 DOOR HEAD - EXISTING WALL
A701 1 1/2" = 1'-0"



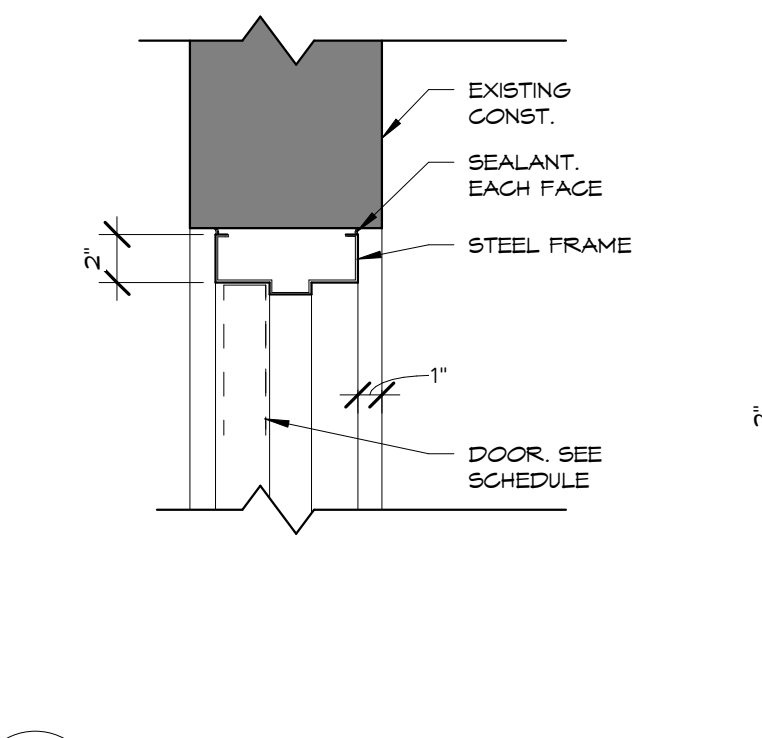
7 DOOR HEAD - EXISTING WALL HM3
A701 1 1/2" = 1'-0"



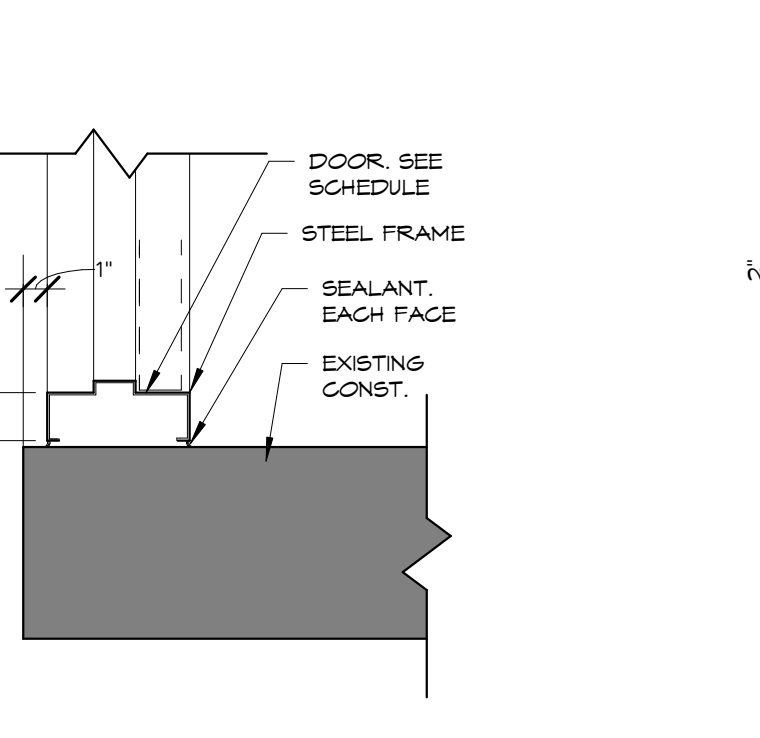
8 DOOR HEAD - NEW CMU WALL
A701 1 1/2" = 1'-0"



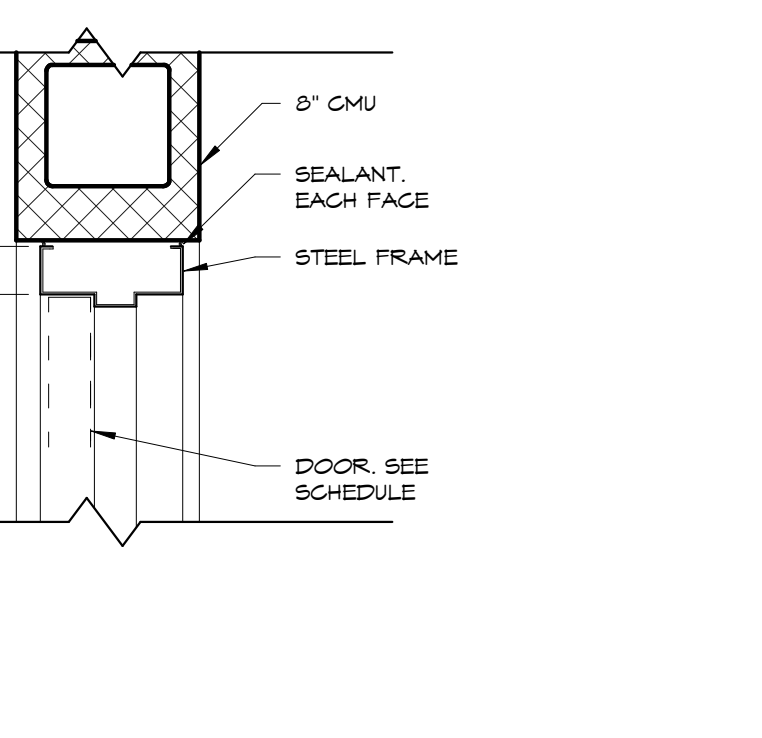
9 DOOR HEAD - FRAMED WALL
A701 1 1/2" = 1'-0"



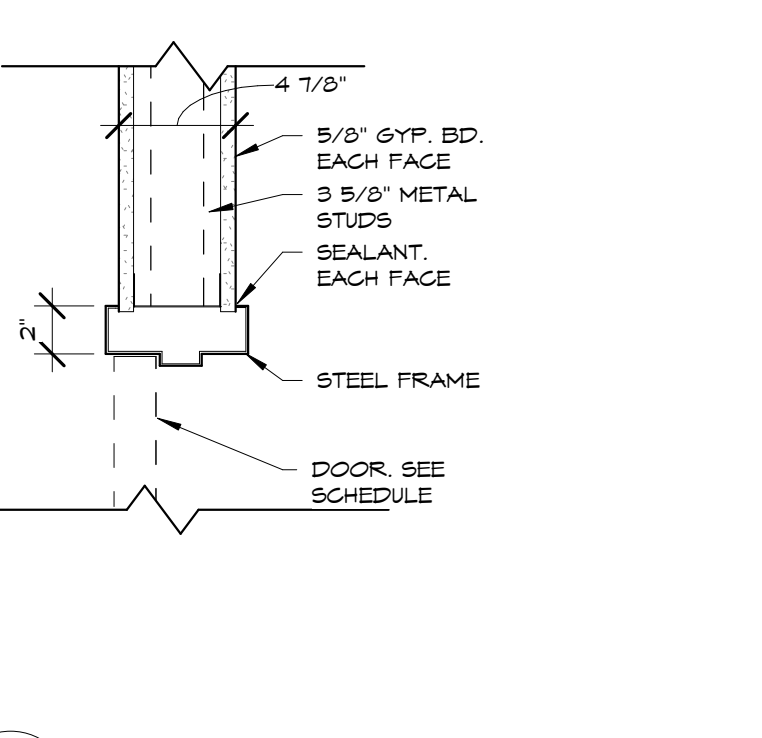
10 DOOR JAMB - EXISTING WALL
A701 1 1/2" = 1'-0"



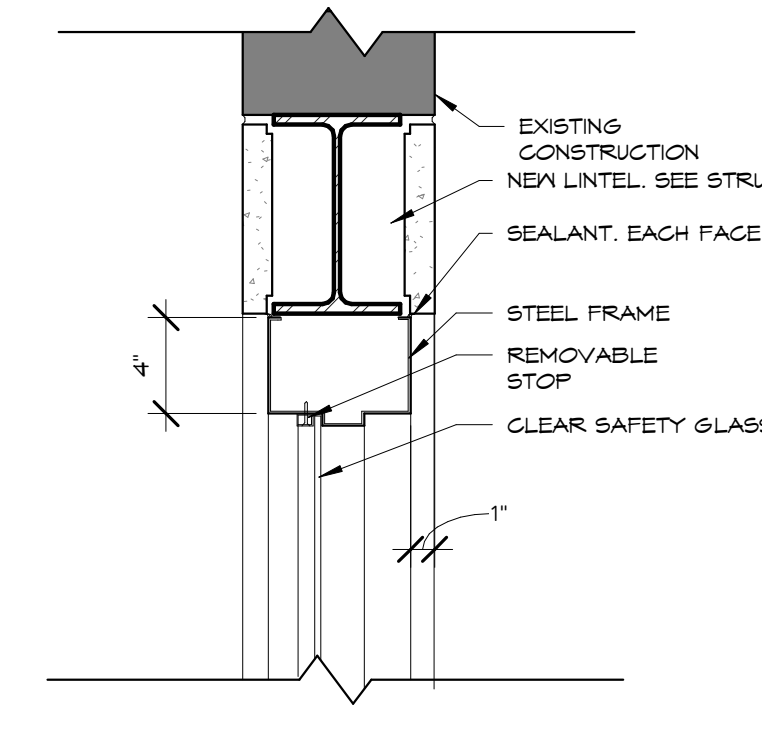
11 DOOR JAMB - EXISTING WALL HM3
A701 1 1/2" = 1'-0"



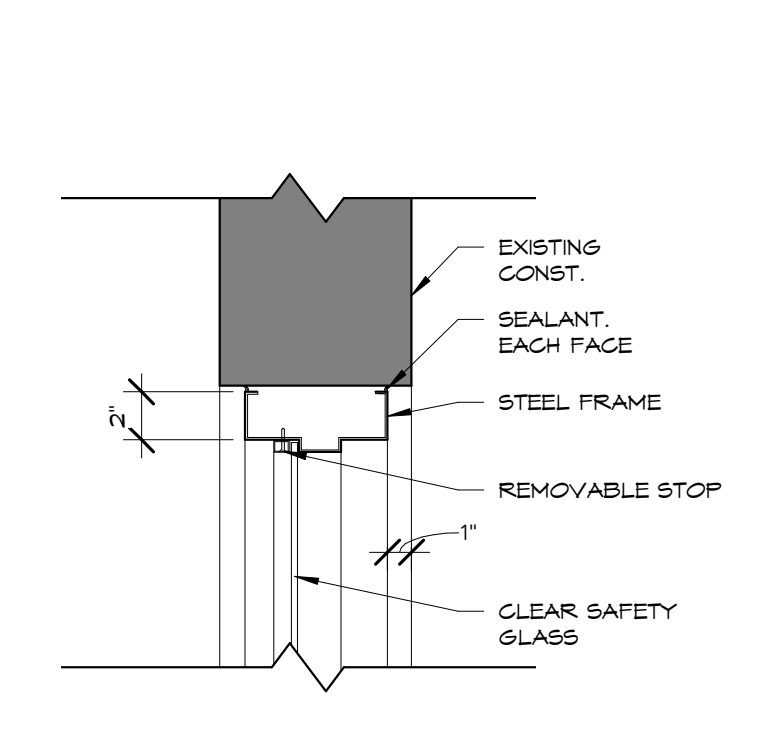
12 DOOR JAMB - NEW CMU WALL
A701 1 1/2" = 1'-0"



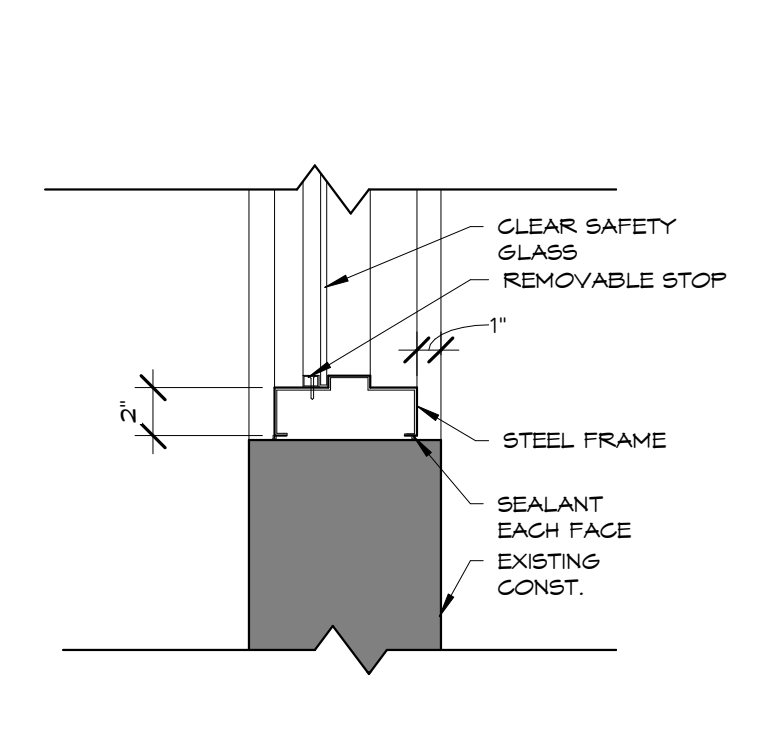
13 DOOR JAMB - FRAMED WALL
A701 1 1/2" = 1'-0"



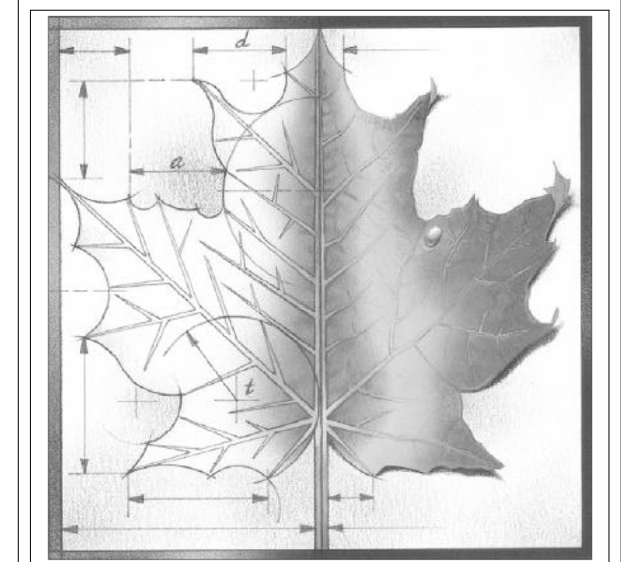
14 WINDOW HEAD
A701 1 1/2" = 1'-0"



15 WINDOW JAMB
A701 1 1/2" = 1'-0"



16 WINDOW SILL
A701 1 1/2" = 1'-0"



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REV	DESC	DATE
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PRICING SET
NOT FOR 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:
DOOR SCHEDULE

Sheet:
A701

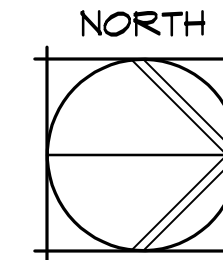
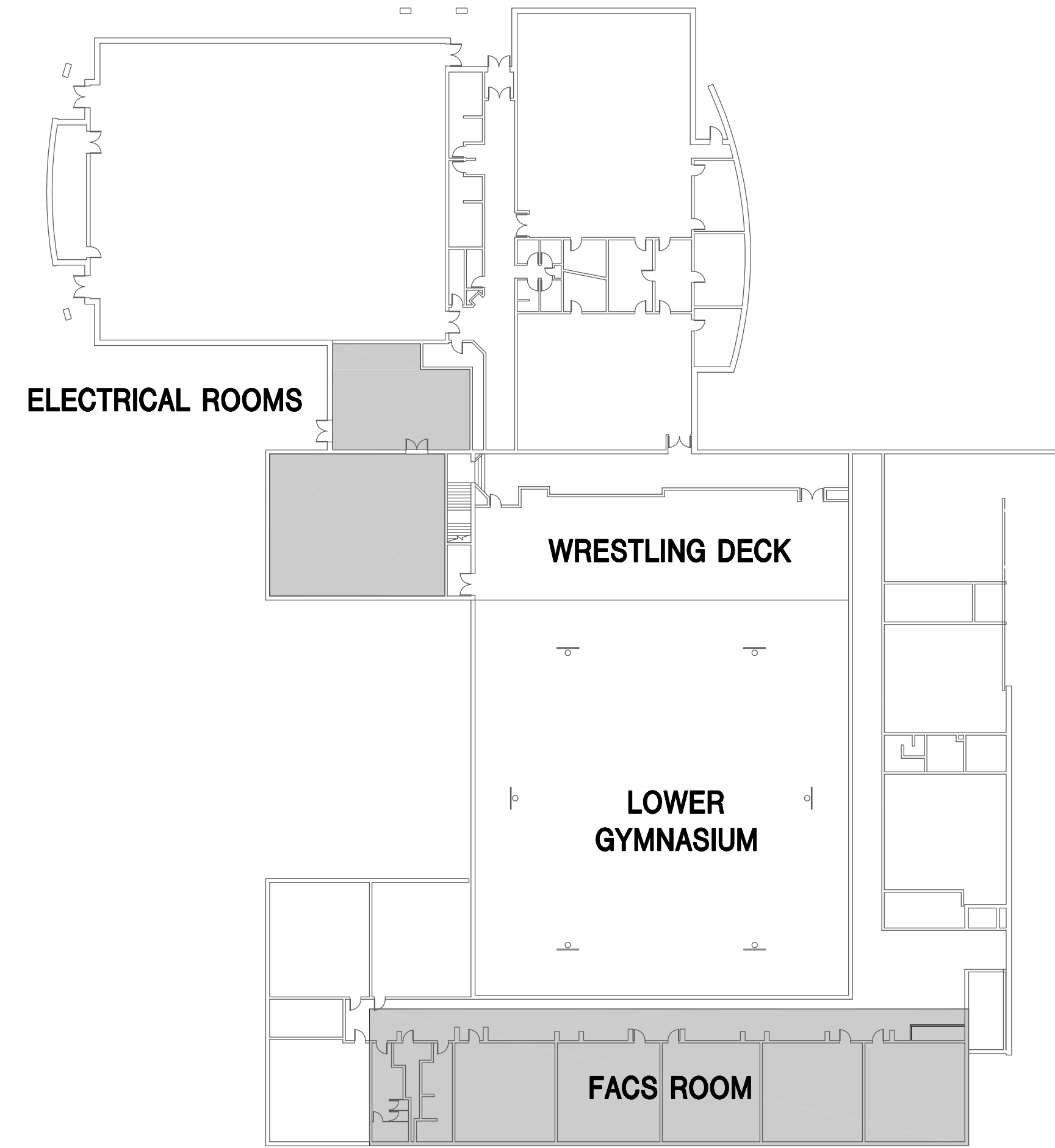
Of:

GENERAL DEMOLITION NOTES

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

GENERAL MECHANICAL AND ELECTRICAL NOTES

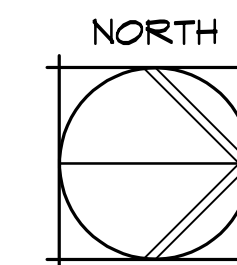
1. Do not scale these drawings.
2. These drawings were produced from original drawings, and field survey and measurements. Existing architectural and structural characteristics of the building which are represented on these drawings are believed to be accurate. However, the contractor shall verify all 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.
11. Provide cutting and patching of walls, floors and ceilings as necessary to complete new work.



SECOND FLOOR KEY PLAN

NO SCALE

MEP SYMBOLS LEGEND			
	Thermostat		Natural gas
	Temperature sensor		Sanitary waste above grade
	Humidity sensor		Sanitary waste below grade
	Carbon dioxide sensor		Sanitary vent
	90° Elbow down, round duct		Vent through roof
	90° Elbow up, round duct		Plumbing trap
	Round duct offset		Pipe turning down
	Radius elbow		Pipe turning up
	90° Elbow down, rectangular supply duct		Shock arrester
	90° Elbow up, rectangular supply duct		Ball valve
	90° Elbow down, rectangular return duct		Gate valve
	90° Elbow up, rectangular return duct		Check valve
	Rectangular elbow with turning vanes		Butterfly valve
	Flexible duct		Gas cock
	Manual balancing damper		Union
	Motorized damper		Gauge
	Fire damper		Test plug
	Smoke damper		Reducer
	Combination fire/smoke damper		Thermometer in well
	Backdraft damper		Temperature sensor in well
	Ceiling supply air diffuser		Wall mounting bracket
	Ceiling return air grille		Intercom speaker
	Sidewall supply air diffuser		Analog clock
	Sidewall return air grille		Fire alarm horn/strobe
	Supply air slot diffuser		Fire alarm pull station
	Round tap in bottom of duct		Fire alarm duct smoke detector
	Rectangular tap in bottom of duct		Fire alarm test switch
	Condensate drain		Fire alarm relay/addressable control module
	Cold water		Fire alarm addressable monitor module
	Hot water		Fire alarm strobe
	Recirculated water		Fire alarm control panel
	Hot water supply		Duplex receptacle
	Hot water return		Ground fault interrupting duplex receptacle
	Chilled water supply		Countertop duplex receptacle
	Chilled water return		
			Weatherproof duplex receptacle
			Tamper resistant duplex receptacle
			Four-plex receptacle
			Special receptacle as noted
			Data box
			Countertop data box
			Flush floor duplex receptacle
			Flush junction box
			Surface or concealed junction box
			Electrical connection to equipment
			Single pole switch
			Keyed switch
			Three-way switch
			Manual motor starter
			Electrical disconnect switch
			Motor starter
			Combination motor starter/disconnect switch
			Electrical
			Conduit concealed in wall or ceiling
			Home run to panelboard with conductors as indicated. Do not share neutrals unless noted otherwise.
			Panelboard
			Transformer
			Electrical meter
			Connection of new to existing
			Existing device
			Circuit breaker
			Unless noted otherwise
			Above finished floor
			Not in contract
			General Contractor
			Surface mount
			Wireless access point
			Weatherproof



GROUND FLOOR KEY PLAN

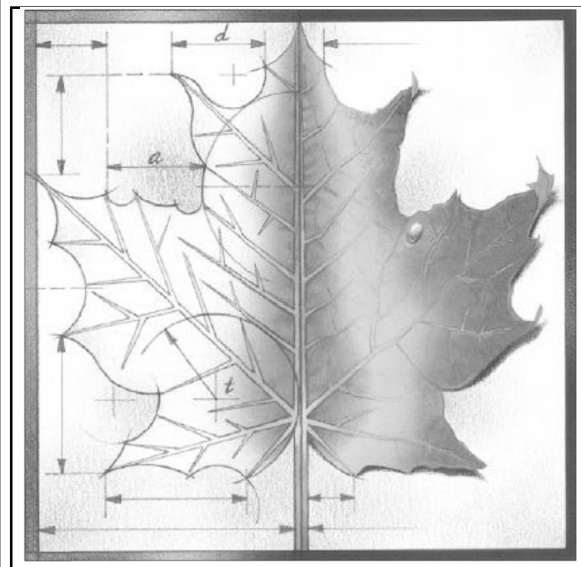
NO SCALE

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OSE OZAZEM & SCALORA ENGINEERING, P.A.
Manhattan, Kansas

Job No. 15011-1

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REVISIONS:	

Project Number: **16036**

Date: **03/16/18**

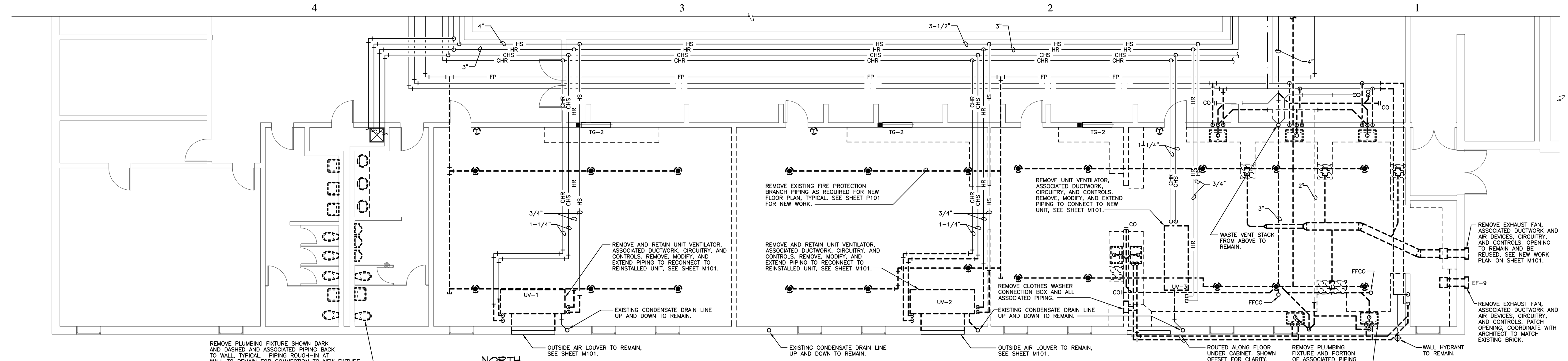
Project Name:
USD 320 WAMEGO HIGH SCHOOL IMPROVEMENTS

Project Address:
801 LINCOLN AVENUE WAMEGO, KS 66547

Sheet Title:
KEY PLANS

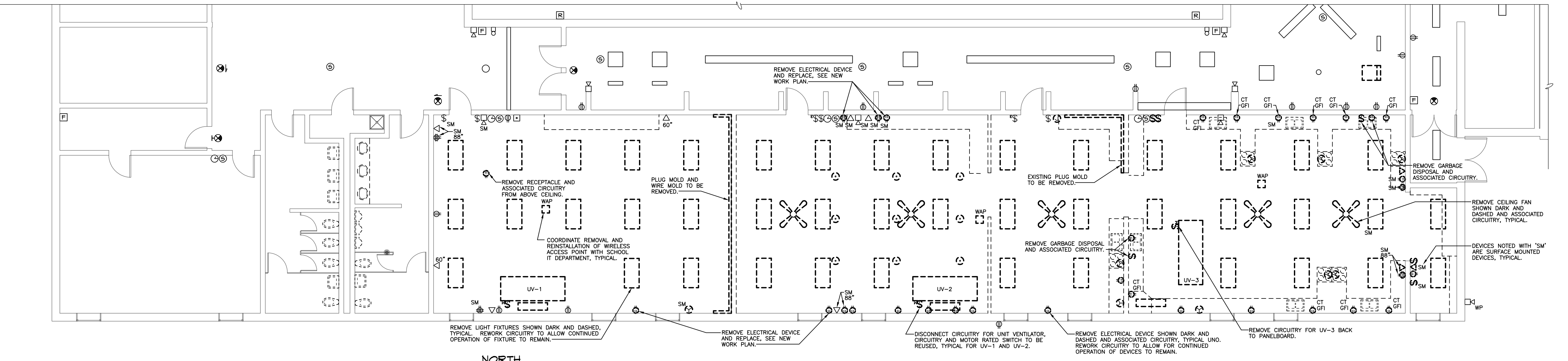
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ME000

Of:



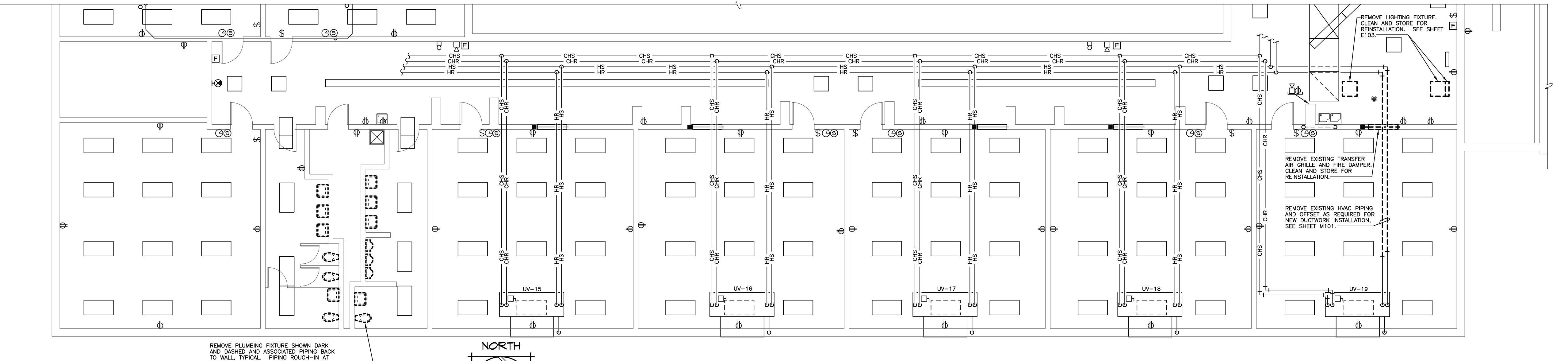
FACS ROOM GROUND FLOOR PLAN - MECHANICAL DEMOLITION

1/8" = 1'-0"



FACS ROOM GROUND FLOOR PLAN - ELECTRICAL DEMOLITION

1/8" = 1'-0"

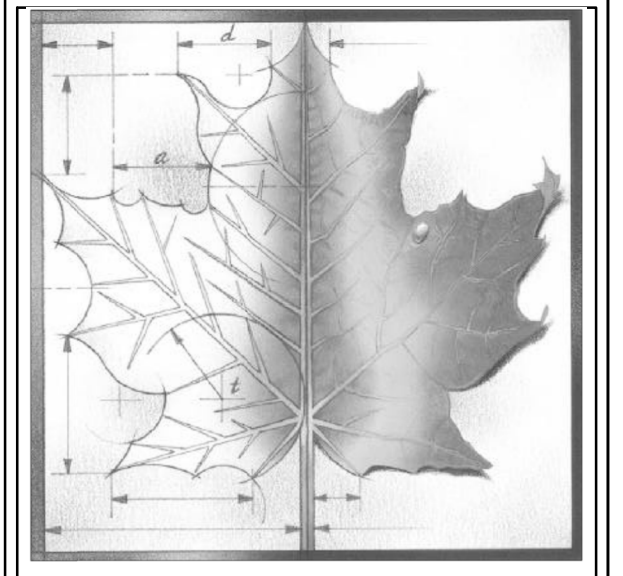


FACS ROOM SECOND FLOOR PLAN - MEP DEMOLITION

1/8" = 1'-0"

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Project Number: **16036**
 Date: **03/16/18**

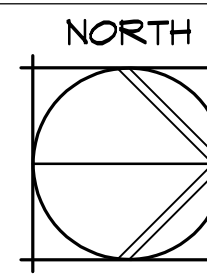
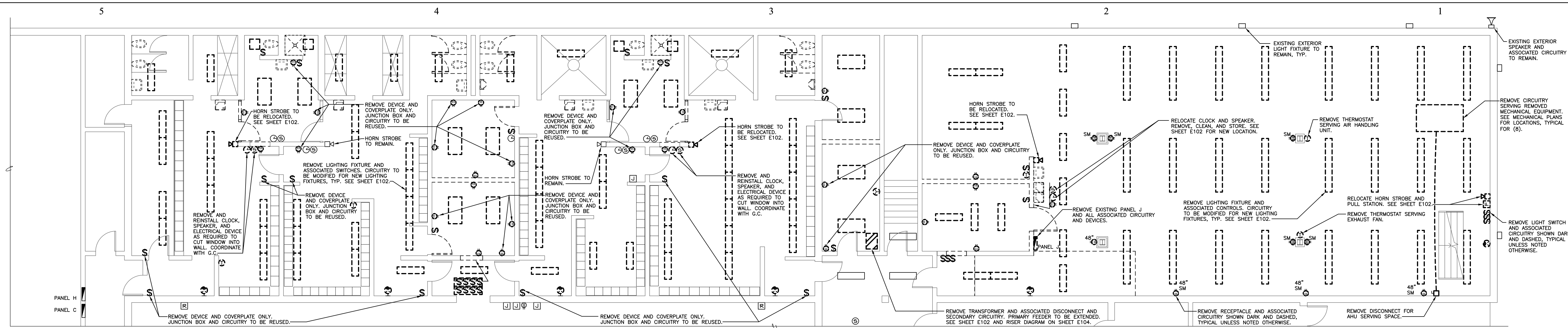
Project Name:
USD 320 WAMEGO HIGH SCHOOL IMPROVEMENTS

Project Address:
**801 LINCOLN AVENUE
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Sheet Title:
**FACS ROOM
 MEP
 DEMOLITION
 PLANS**

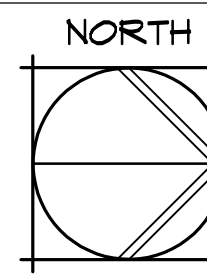
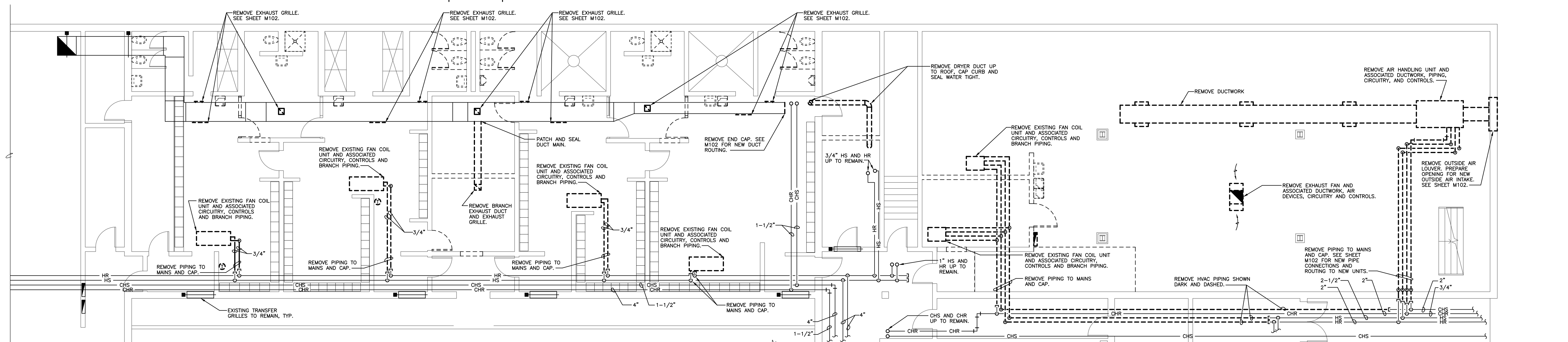
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ME001

Of:



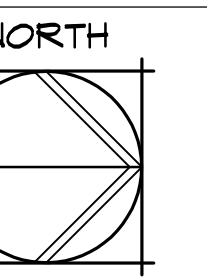
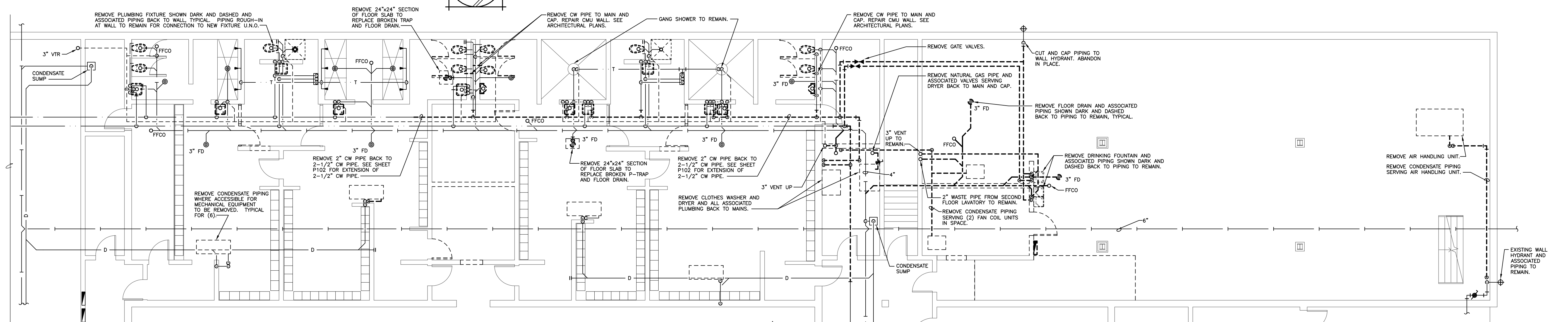
LOCKER ROOM GROUND FLOOR PLAN - ELECTRICAL DEMOLITION

1/8" = 1'-0"



LOCKER ROOM GROUND FLOOR PLAN - MECHANICAL DEMOLITION

1/8" = 1'-0"



LOCKER ROOM GROUND FLOOR PLAN - PLUMBING DEMOLITION

1/8" = 1'-0"

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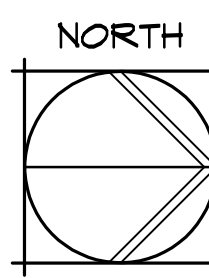
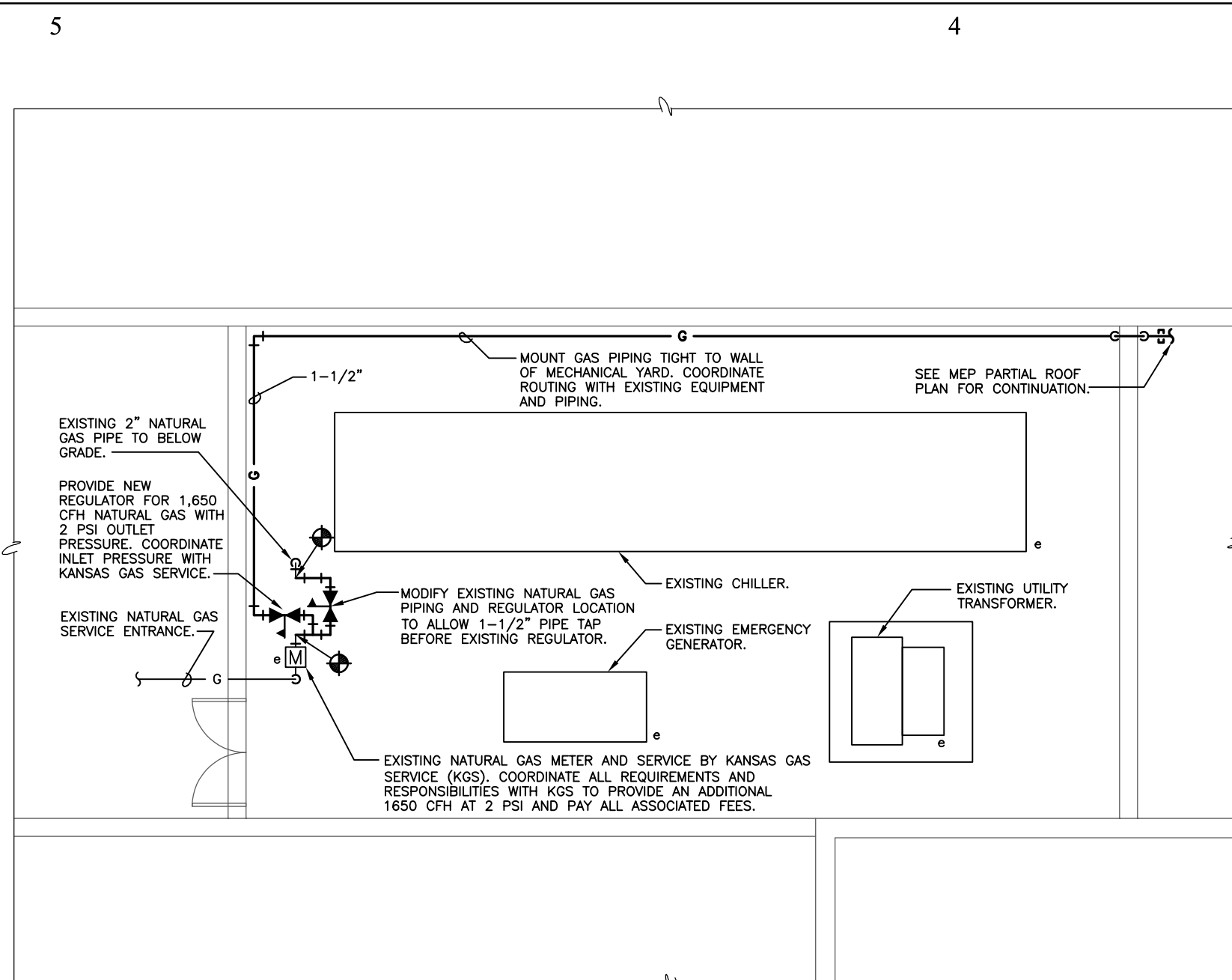
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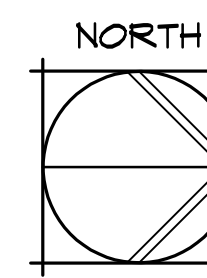
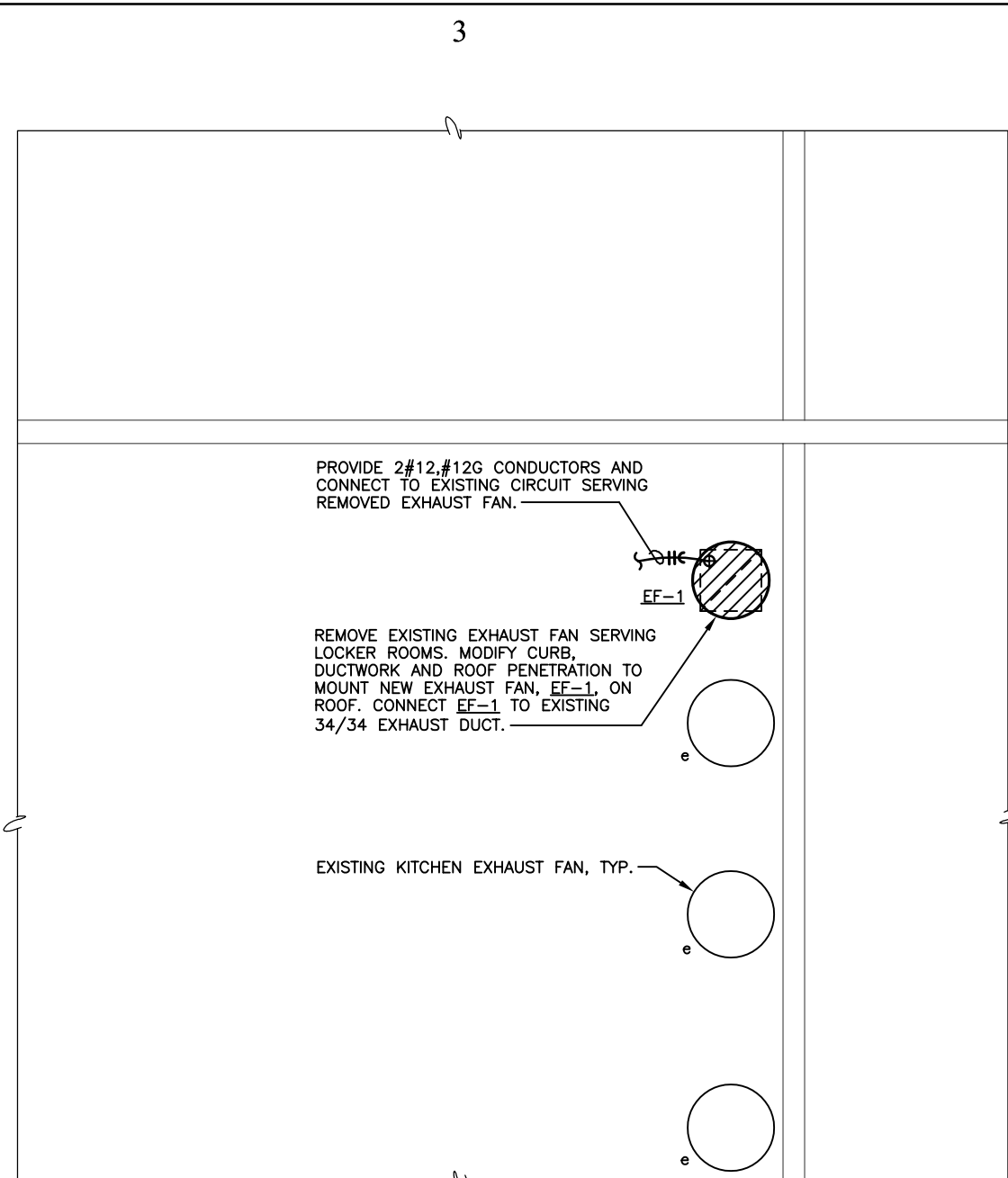
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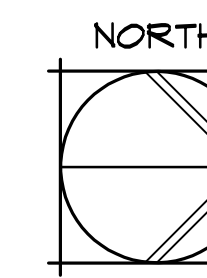
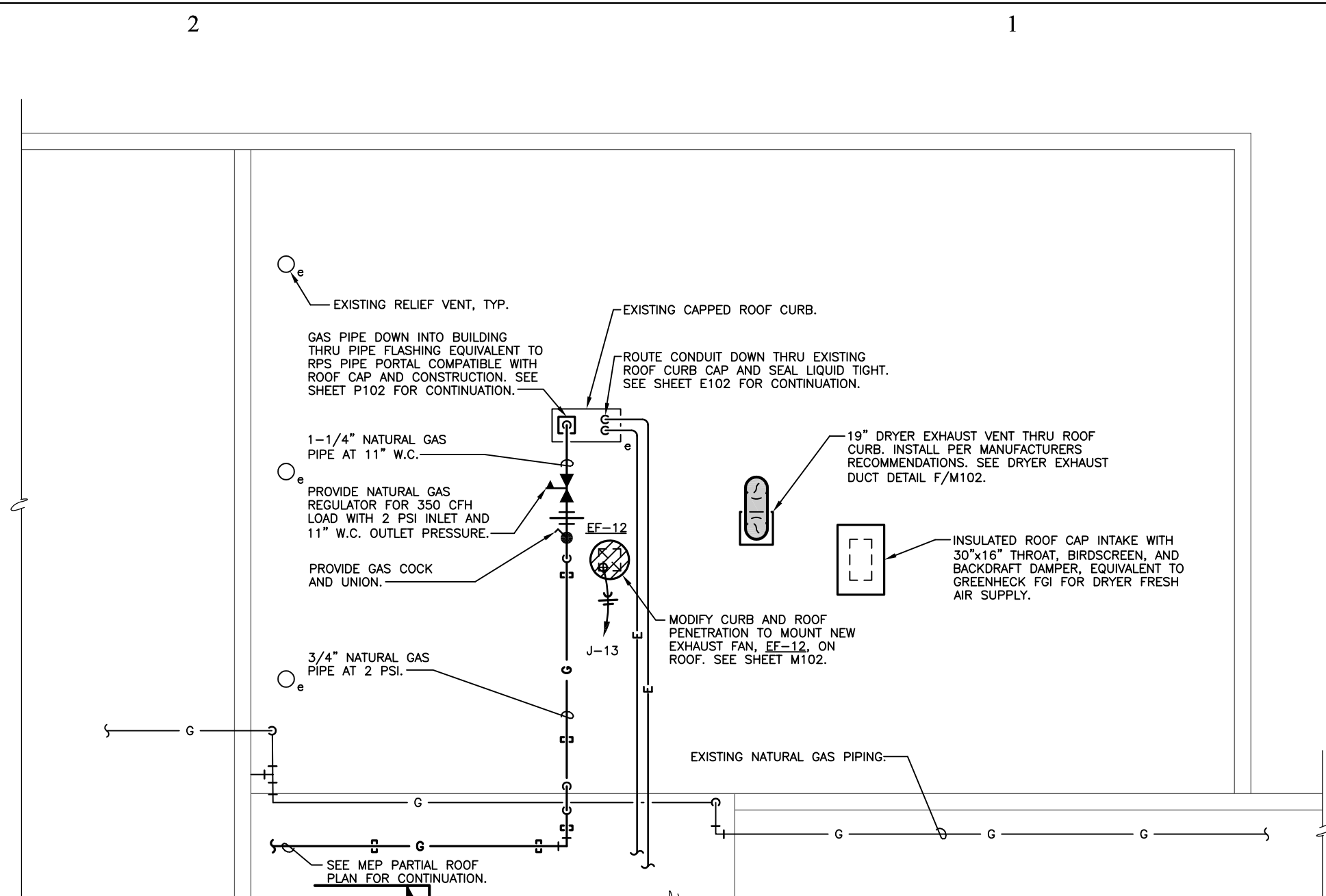
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Project Number: 16036	
Date: 03/16/18	
Project Name: USD 320 WAMEGO HIGH SCHOOL IMPROVEMENTS	
Project Address: 801 LINCOLN AVENUE WAMEGO, KS 66547	
Sheet Title: LOCKER ROOM MEP DEMOLITION PLANS	
Sheet: ME002	
Of:	



AREA A - MECHANICAL YARD PLAN MEP
1/8" = 1'-0"



AREA B - PARTIAL ROOF PLAN MEP
1/8" = 1'-0"



AREA C - PARTIAL ROOF PLAN MEP
1/8" = 1'-0"

EQUIPMENT CONTROL SCHEDULE SYMBOLS AND NOTES
(Note that only those symbols and notes shown in the schedule shall apply)

SYMBOLS -

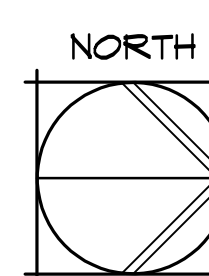
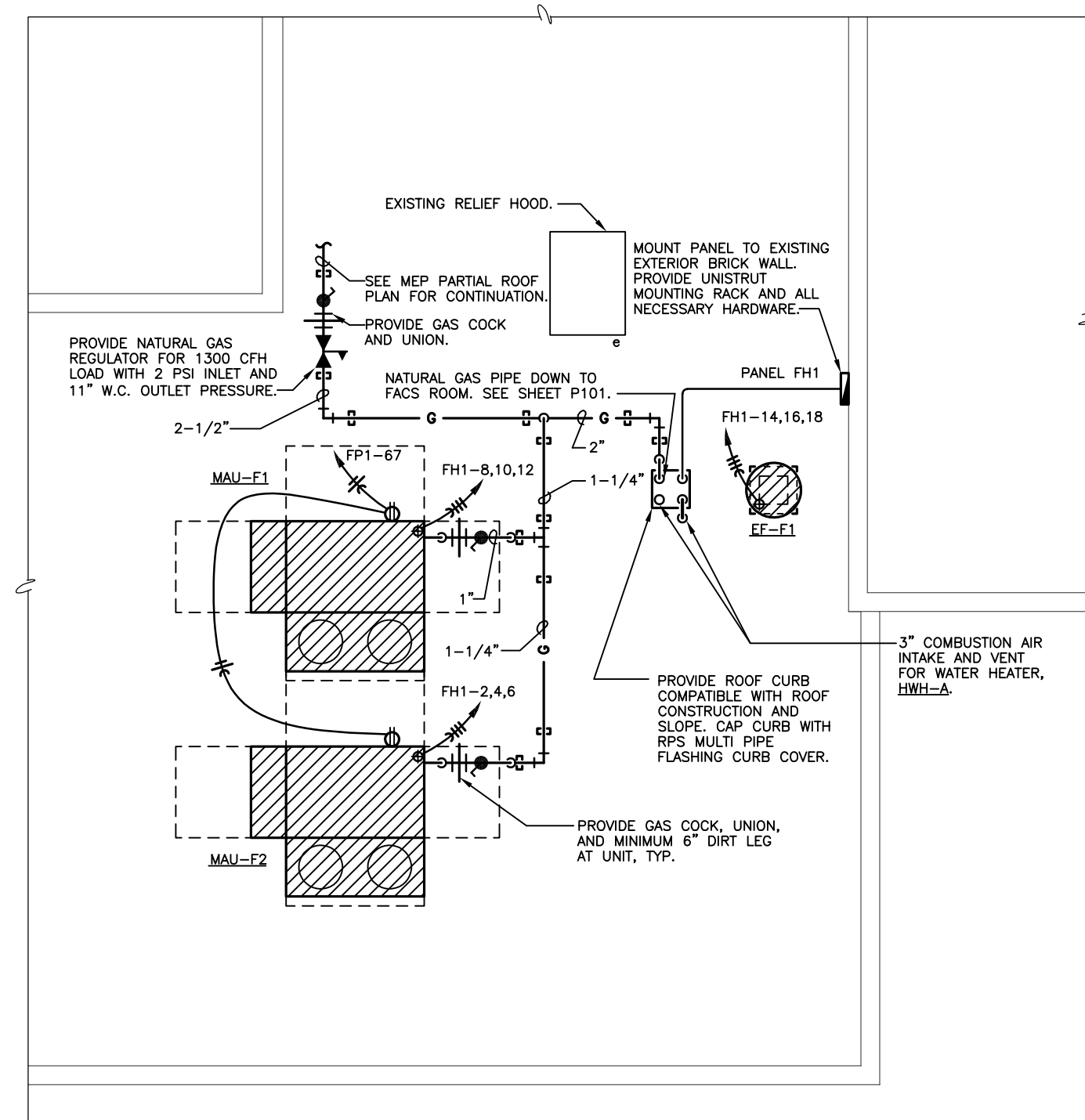
H = HVAC Contractor (MC)	R = Reset Only
E = Electrical Contractor (EC)	RP = Reset w/Pilot Light
P = Plumbing Contractor	SS = Start/Stop Push button w/Reset
F = Fire Protection Contractor	SSP = Start/Stop Push button w/Reset & Pilot Light
G = General Contractor	HOA = Hand-Off-Auto. Selector Switch w/Reset
O = Owner	HP = Hand-Off-Auto. Selector Switch w/Reset & Pilot Light

NOTES -

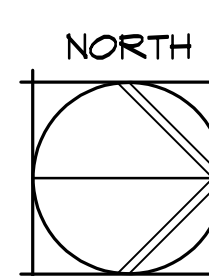
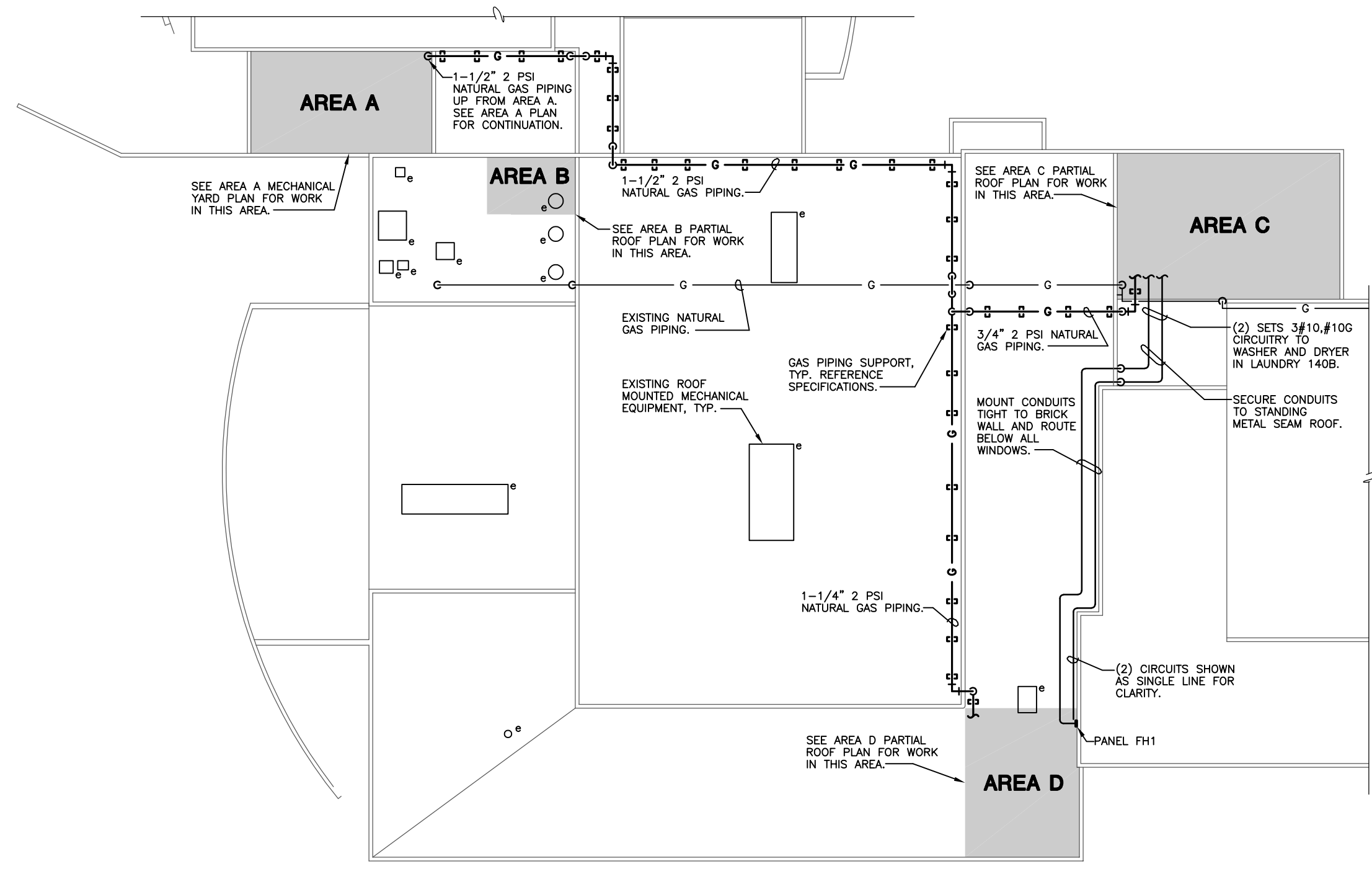
- Furnish standard across-the-line single speed magnetic starter for each three phase motor, and manual single speed motor starter for each single phase motor, unless otherwise noted.
- For control and interlock of motors, see Temperature Controls, and controls diagrams.
- Equipment electrical characteristics shall be coordinated with Electrical Contractor before ordering equipment.
- Starter(s) or contactor(s) and/or control panel furnished by equipment manufacturer. EC to provide control wiring for field installed control operators and components.
- Starter(s) or contactor(s) and/or control panel furnished by equipment manufacturer. MC to provide control wiring for unit mounted and field installed components.
- Unit controls by equipment manufacturer with data inputs and outputs by Building Controls Contractor, see control diagrams.
- Reference plans and equipment schedules for exact quantities, locations and power requirements.
- Provide combination starter/disconnect switch.
- Electrical unit disconnect furnished pre-wired by equipment manufacturer.
- Provide two-pole, across-the-line, magnetic motor starter for single phase motor.
- Variable frequency drive serves as motor starter.
- Line voltage powered timeclock to serve as motor control device.
- Provide fan control power relay with enclosure for interface with temperature controls.
- Fan control by room light switch.
- Provide wall box mounted spring wound timer switch for manual control.
- Provide cord and plug for electrical connection and disconnecting requirements.
- Existing equipment, MC to provide control wiring for new unit mounted and field installed components.
- Starter(s) or Contactor(s) are existing, EC to field wire new equipment to existing Starter(s) or Contactor(s). MC to provide control wiring for unit mounted and field installed components.

MECHANICAL EQUIPMENT CONTROL SCHEDULE

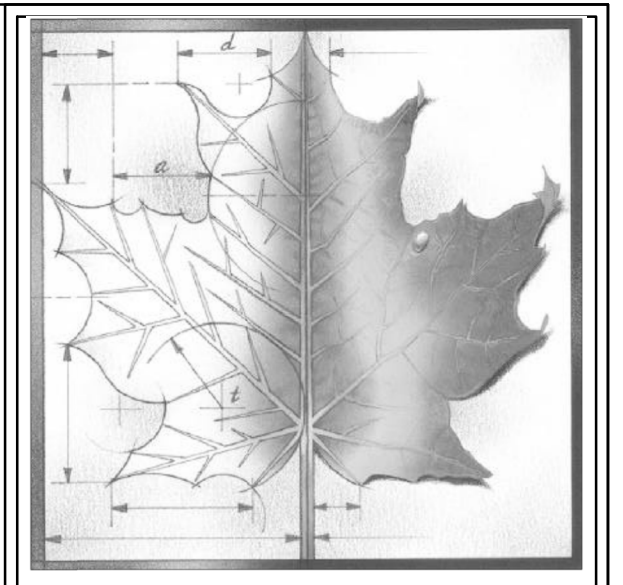
Equipment	Location	POWER			STARTER	NOTES
		HP	Kw	FLA		
BC-1 Blower Coil	South Locker 139	-	-	5.7	230/1 H	5.9
BC-2 Blower Coil	North Locker 140	-	-	5.7	230/1 H	5.9
BC-3 Blower Coil	Prep AG107A	-	-	5.4	208/1 H	5.9
FC-1 Fan Coil	Training 143	-	-	0.9	230/1 H	5.9
FC-2 Fan Coil	Hallway 138	-	-	0.7	230/1 H	5.9
FRH-1 Fire Ready Hood	FACs 118	-	0.540	-	120/1 H	4.6
FRH-2 Fire Ready Hood	FACs 118	-	0.540	-	120/1 H	4.6
FRH-3 Fire Ready Hood	FACs 118	-	0.540	-	120/1 H	4.6
FRH-4 Fire Ready Hood	FACs 118	-	0.540	-	120/1 H	4.6
FRH-5 Fire Ready Hood	FACs 118	-	0.540	-	120/1 H	4.6
FRH-6 Fire Ready Hood	FACs 118	-	0.540	-	120/1 H	4.6
EF-1 Exhaust Fan	Roof	2	-	-	480/3 H	9.18
EF-12 Exhaust Fan	Roof	1/4	-	-	120/1 H	5.9, 13
EF-F1 Exhaust Fan	Roof	1-1/2	-	-	480/3 H	4.9
EF-P1 Exhaust Fan	Roof	-	0.015	-	120/1 H	4.9, 14
MAU-F1 Make-up Air Unit	Roof	-	-	24	480/3 H	5.6
MAU-F2 Make-up Air Unit	Roof	-	-	32	480/3 H	5.6, 11
UV-1 Relocated Unit Ventilator	Roof	-	-	5	120/1 H	17
UV-2 Relocated Unit Ventilator	Roof	-	-	5	120/1 H	17
DH-1 Electric Duct Heater	Classroom 112	-	5	-	277/1 H	5
DH-2 Electric Duct Heater	Preschool 115	-	5	-	277/1 H	5
DH-3 Electric Duct Heater	FACs 118	-	5	-	277/1 H	5
HWP Hot Water Circulation Pump	Room 123B	-	1/35	-	120/1	4.16



AREA D - PARTIAL ROOF PLAN MEP
1/8" = 1'-0"



PARTIAL ROOF PLAN MEP
1/32" = 1'-0"



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Date: **03/16/18**

Project Name:
USD 320 WAMEGO HIGH SCHOOL IMPROVEMENTS

Project Address:
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Sheet Title:
MEP ROOF PLAN

Sheet:
ME100

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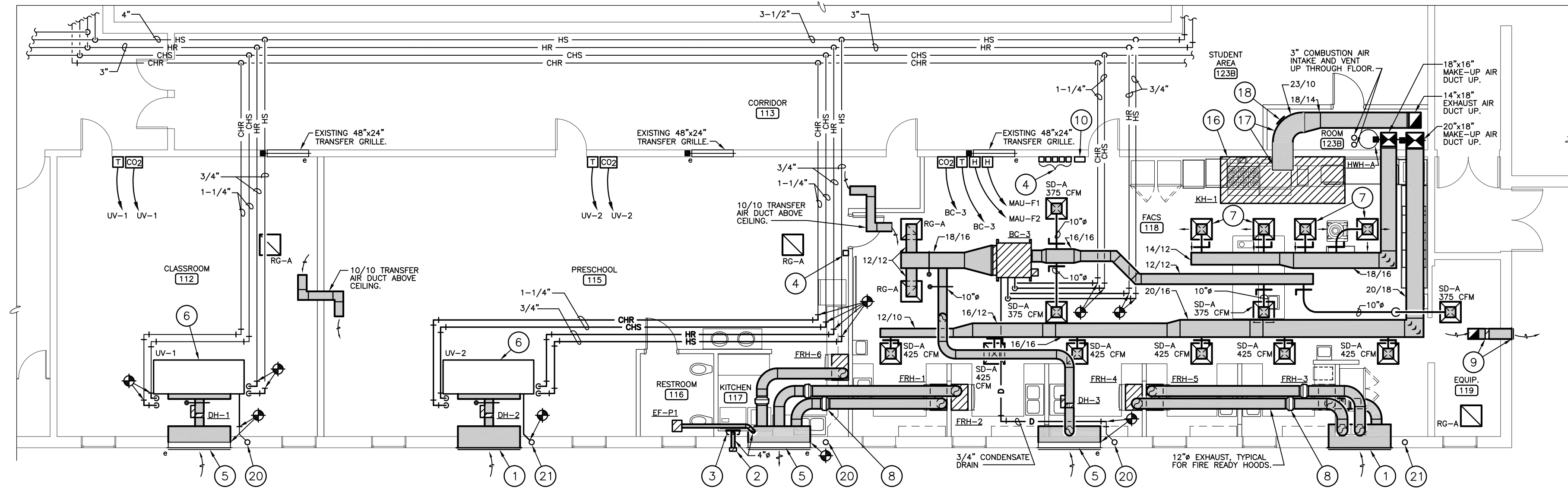
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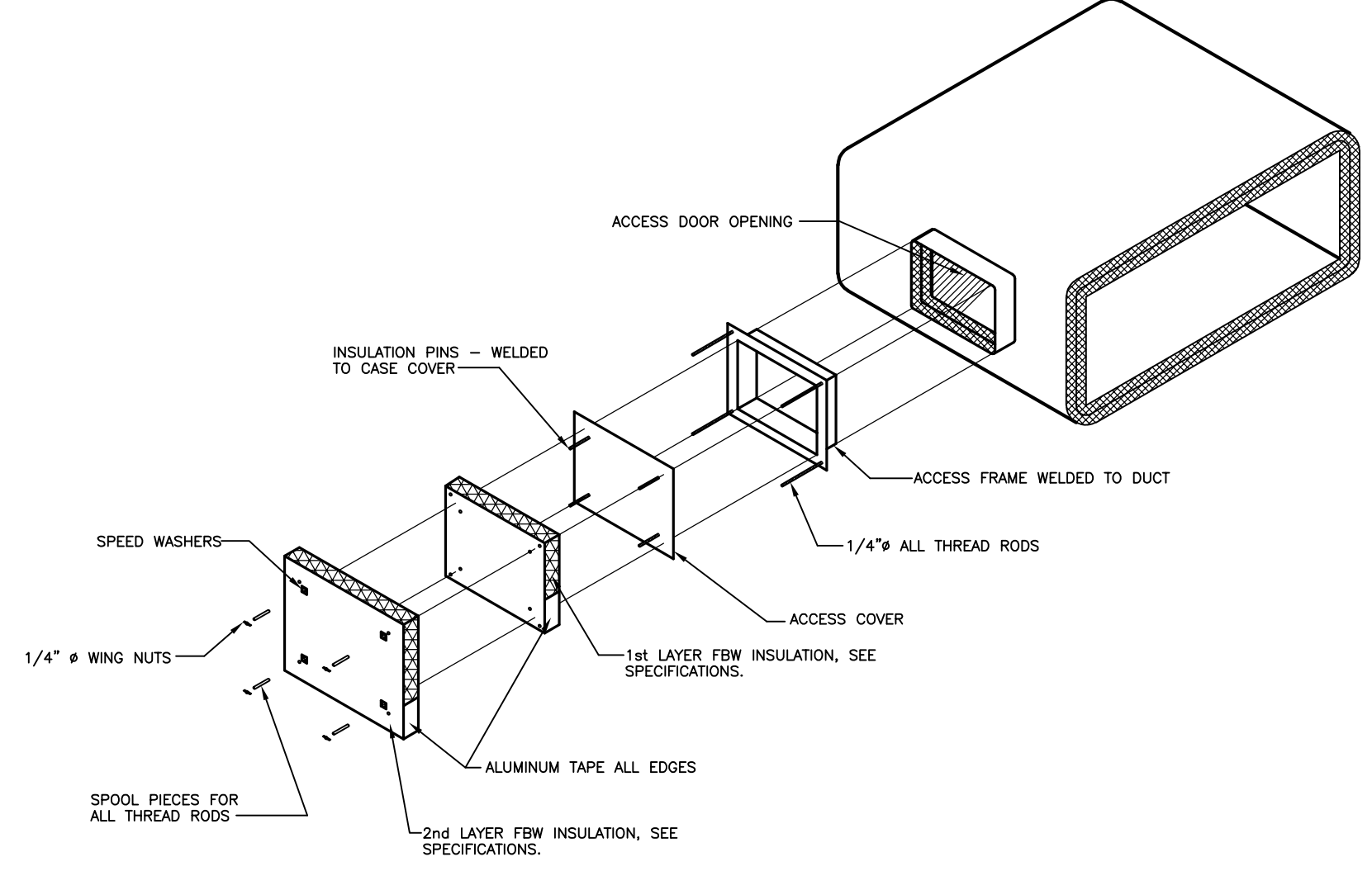
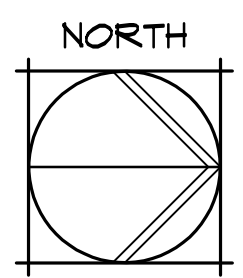
MECHANICAL NOTES BY SYMBOL:

- 1 PROVIDE 72"x16" INTAKE LOUVER EQUIVALENT TO GREENHECK ESD 435 IN FINISH TO MATCH EXISTING INTAKE LOUVERS ON THIS WALL. INSTALL WITH BOTTOM AT ELEVATION MATCHING EXISTING LOUVERS. COORDINATE WITH ARCHITECT. PROVIDE NEW 12"Wx16"Hx72"L PLENUM AS SHOWN.
- 2 PROVIDE NEW ALUMINUM DRYER EXHAUST WALL CAP EQUIVALENT TO GREENHECK MODEL WC-4 WITH BACKDRAFT DAMPER TO REPLACE REMOVED WALL CAP. FINISH TO BE SELECTED BY ARCHITECT.
- 3 RECESSED DRYER VENT HOSE BOX EQUIVALENT TO DRYERBOX-480, INSTALLED FOR UPWARD VENTING. MOUNT LOW IN WALL, NEAR FLOOR.
- 4 FIRE READY HOOD FIRE SUPPRESSION SYSTEM MANUAL ACTIVATION DEVICE, TYPICAL FOR (5) DEVICES IN FACs, (1) DEVICE IN PRESCHOOL.
- 5 EXISTING 72"x16" INTAKE LOUVER. PROVIDE NEW 12"Wx16"Hx72"L PLENUM AS SHOWN.
- 6 REINSTALL EXISTING UNIT VENTILATOR AND CONNECT TO EXISTING CIRCUITRY AND CONTROLS, MODIFY AND EXTEND PIPING AS REQUIRED TO RECONNECT TO UNIT. CONNECT 10" DIAMETER OUTSIDE AIR DUCT WITH ELECTRIC DUCT HEATER AND MODULATING CONTROL DAMPER. PROVIDE FREEZE-STAT IN O.A. DUCT IN ACCESSIBLE LOCATION ABOVE CEILING. CLEAN UNIT, CHECK OPERATION, AND PROVIDE NEW FILTER.
- 7 SUPPLY AIR DIFFUSER TYPE SD-A, BALANCED TO PROVIDE 385 CFM WITH 2-WAY DIRECTIONAL AIRFLOW AS INDICATED ON PLAN.
- 8 INLINE EXHAUST FAN FOR FIRE-READY HOOD OVER RESIDENTIAL RANGE, TYPICAL FOR (6). LOCATE FAN IN AN ACCESSIBLE LOCATION ABOVE LAY-IN CEILING. PROVIDE 12" DIAMETER EXHAUST DUCT FOR NFPA 101 COMPLIANCE AND CONNECT TO PLENUM BEHIND THRU-WALL LOUVER.
- 9 10"x10" ALUMINUM BAROMETRIC RELIEF DAMPER TO BE INSTALLED IN 10/10 DUCT THROUGH EXISTING OPENING FROM REMOVED EXHAUST FAN. PROVIDE NEW LOUVER ON EXTERIOR WALL EQUIVALENT TO GREENHECK ESD 435 IN FINISH TO MATCH EXISTING LOUVERS ON EAST WALL, COORDINATE WITH ARCHITECT.
- 10 HOOD CONTROLLER FOR KITCHEN HOOD KH-1.
- 11 18/16 MAKE-UP AIR DUCT DOWN THROUGH SLAB, TRANSITION TO 21/14 IN VERTICAL RUN.
- 12 20/18 MAKE-UP AIR DUCT DOWN THROUGH SLAB, TRANSITION TO 26/14 IN VERTICAL RUN.
- 13 14/18 EXHAUST AIR DUCT DOWN THROUGH SLAB.
- 14 3" COMBUSTION AIR INTAKE AND VENT FOR HWH-A UP TO ROOF. SEE ROOF PLAN ME100 FOR CONTINUATION.
- 15 INSTALL EXISTING TRANSFER AIR GRILLE WITH FIRE DAMPER ABOVE DRINKING FOUNTAIN.
- 16 SEE DETAILS B/M101 FOR KITCHEN HOOD KH-1 EXHAUST DUCT, TYPICAL.
- 17 PROVIDE RECTANGULAR RADIUS ELBOW DUCT. GREASE DUCT TO SLOPE TO HOOD.
- 18 PROVIDE DUCT ACCESS PANEL FOR CLEANING GREASE DUCT. SEE DETAIL A/M101.
- 19 OFFSET PIPING ABOVE DUCTWORK AS REQUIRED.
- 20 EXISTING 1" CONDENSATE DRAIN UP, 1-1/4" CONDENSATE DRAIN DOWN.
- 21 EXISTING 1" CONDENSATE DRAIN UP AND DOWN.

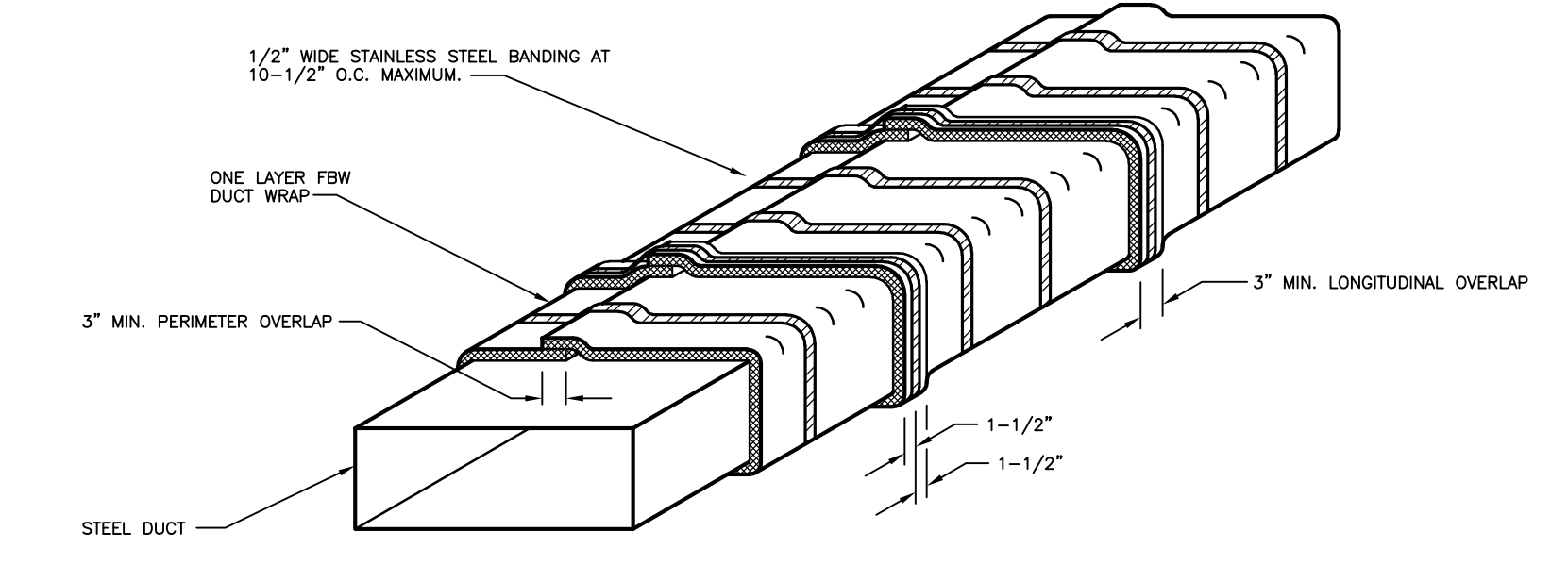


FACS ROOM GROUND FLOOR PLAN - MECHANICAL

1/8" = 1'-0"

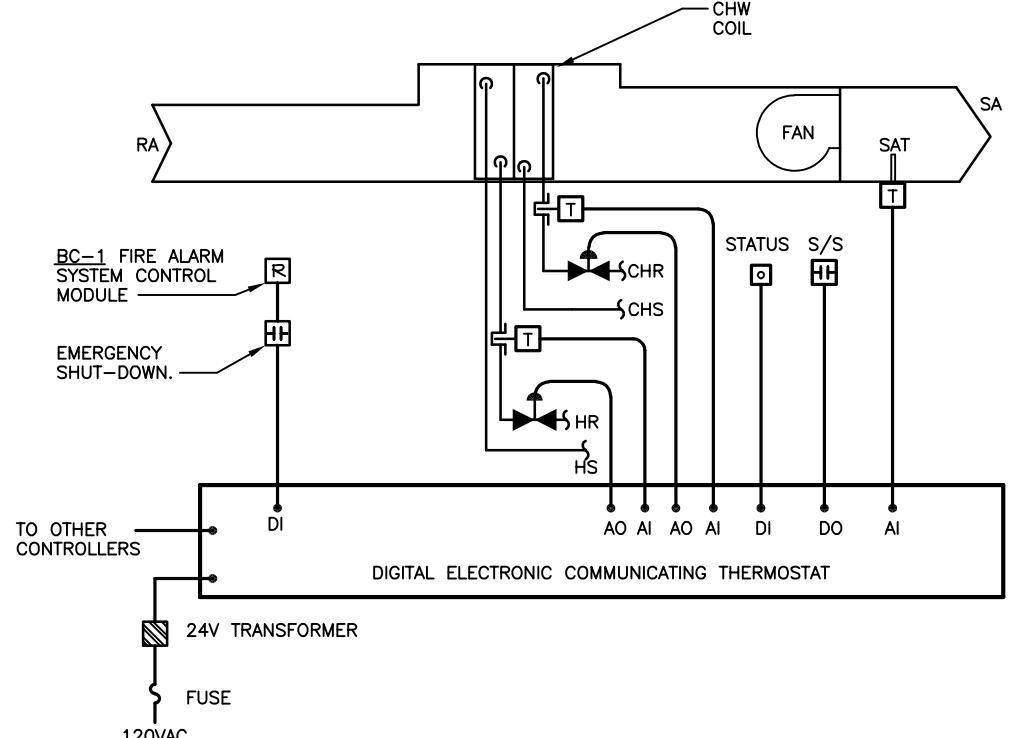


A KITCHEN HOOD DUCT ACCESS PANEL DETAIL
NO SCALE



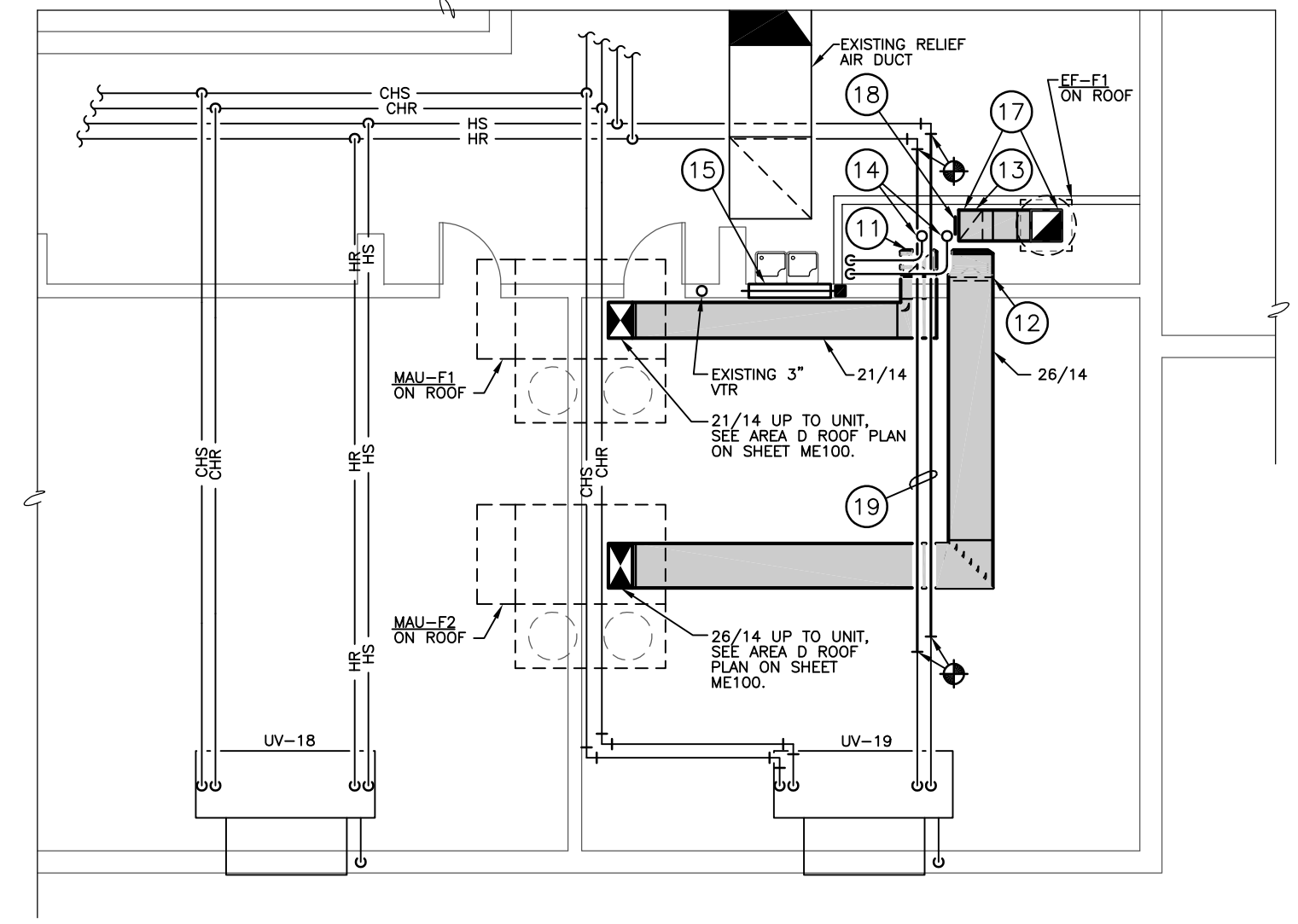
B KITCHEN HOOD DUCT WRAP DETAIL
NO SCALE

CONTROLS LEGEND	
	Carbon dioxide Sensor
	Flow meter
	Room temperature sensor
	Relay
	Current switch
	3-way valve
	Control valve
	Connect to existing
	Space humidity sensor
	Duct humidity sensor
	Duct temperature sensor
	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



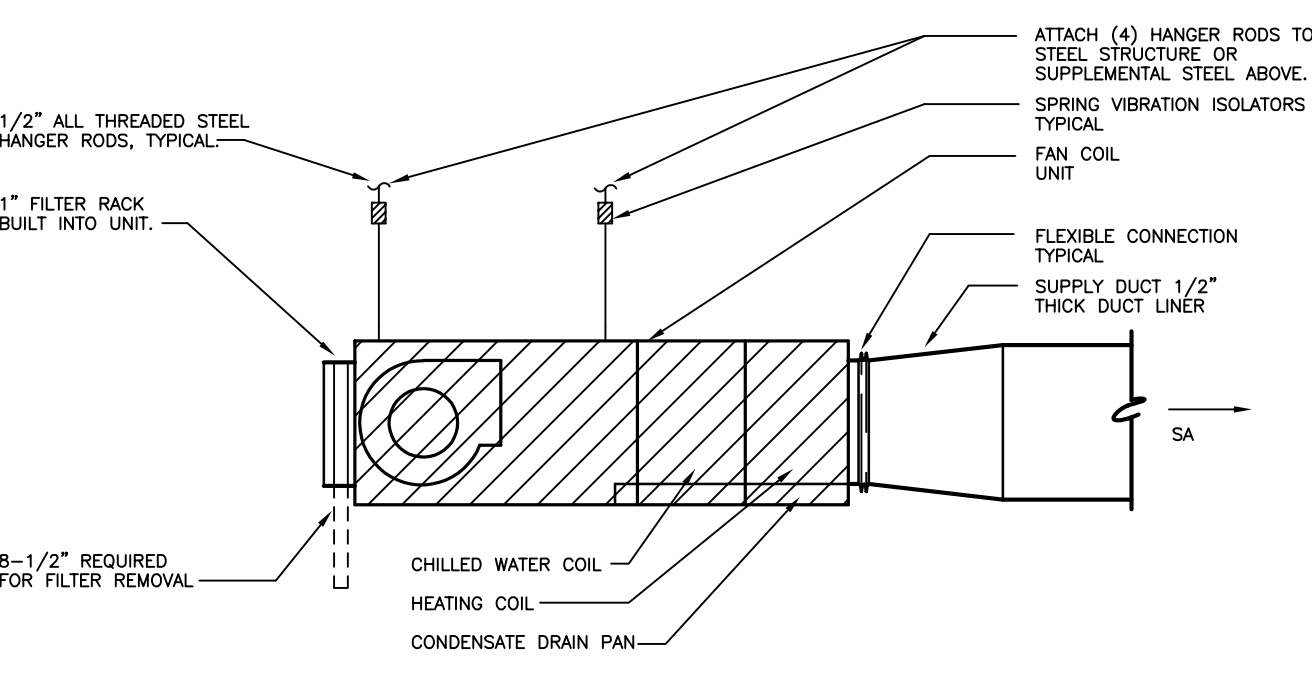
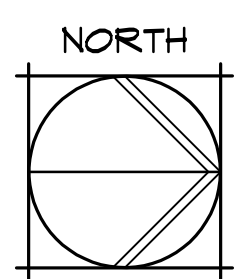
- SEQUENCE OF OPERATION:**
- BC system shall cycle from occupied to unoccupied operation based on an individual time schedule. Run fan during occupied periods.
 - Heating:
 - o. Modulate the HW valve to maintain the space temperature setpoint.
 - Cooling:
 - a. Modulate the CHW valve to maintain the space temperature setpoint.
 - Alarms: All room temperature outside of user defined limits, fan failure, deviation of any temperature from setpoint for an adjustable time span.

C BLOWER COIL CONTROL DIAGRAM
NO SCALE



FACS ROOM SECOND FLOOR PLAN - MECHANICAL

1/8" = 1'-0"



- NOTES: 1. REFER TO MECHANICAL PLANS FOR DUCT & PIPE SIZES.
2. SEE COIL PIPING DETAIL FOR PIPING CONNECTIONS.

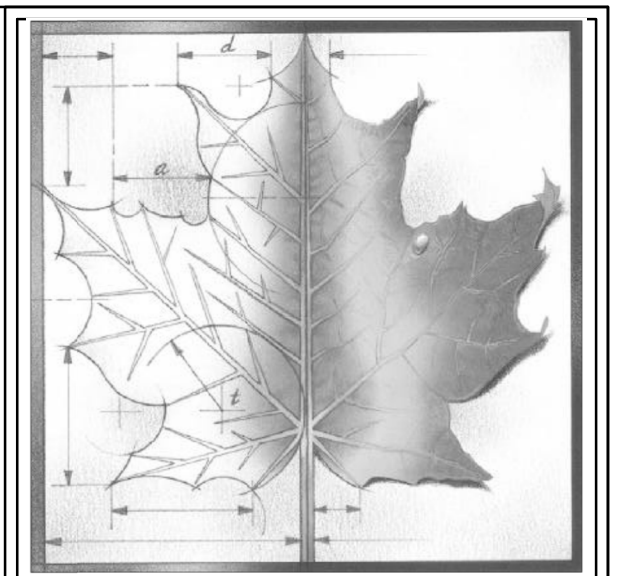
D FAN COIL UNIT MOUNTING DETAIL
NO SCALE

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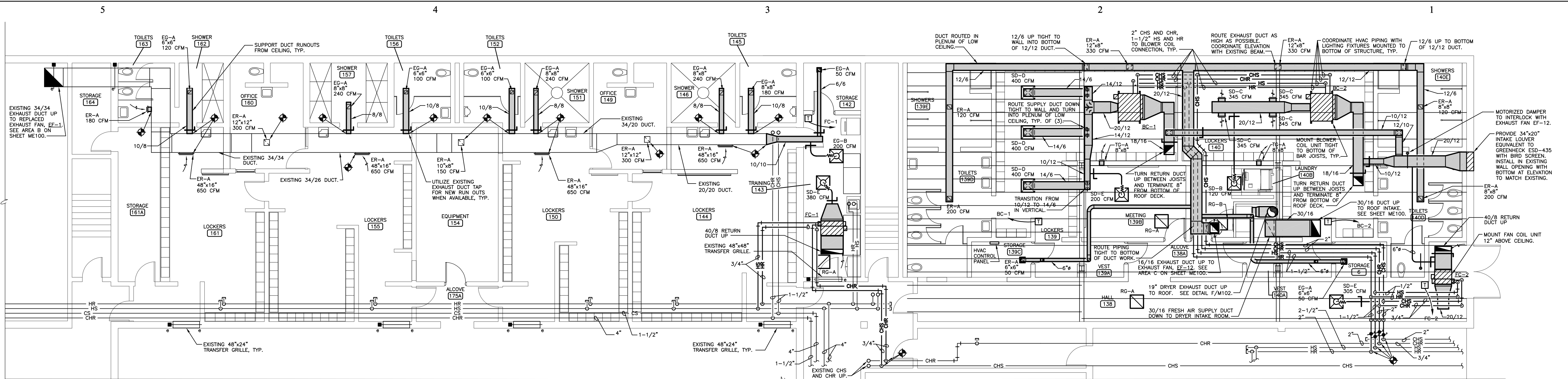
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FACS ROOM MECHANICAL PLANS

Sheet Title:
M101

Sheet:
M101

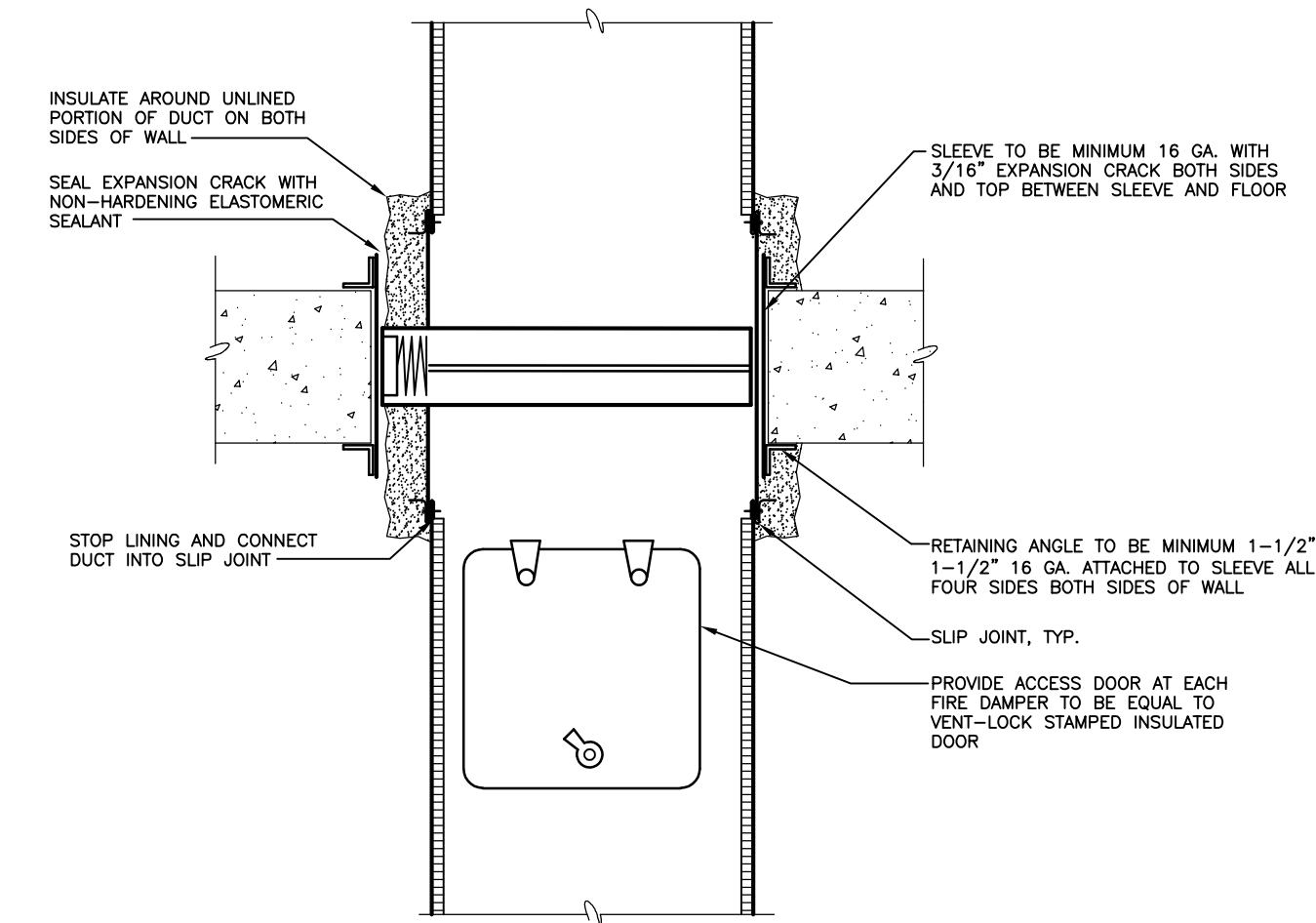
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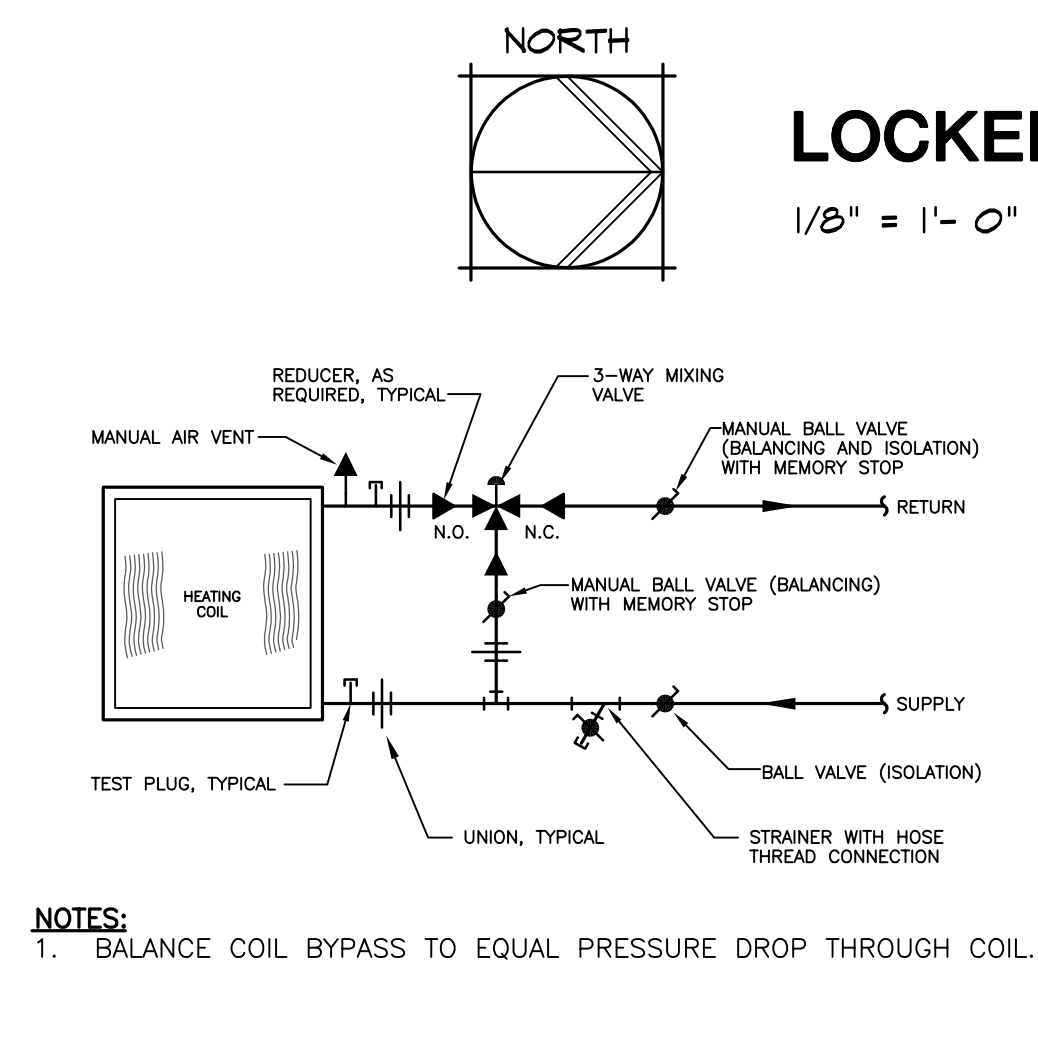
NOTE:
1. PROVIDE EXPOSED DUCTWORK WITH PAINT GRIP FOR FIELD PAINTING. DUCTWORK TO BE PAINTED BY PAINTING CONTRACTOR, COORDINATE WITH G.C.

LOCKER ROOM GROUND FLOOR PLAN - MECHANICAL

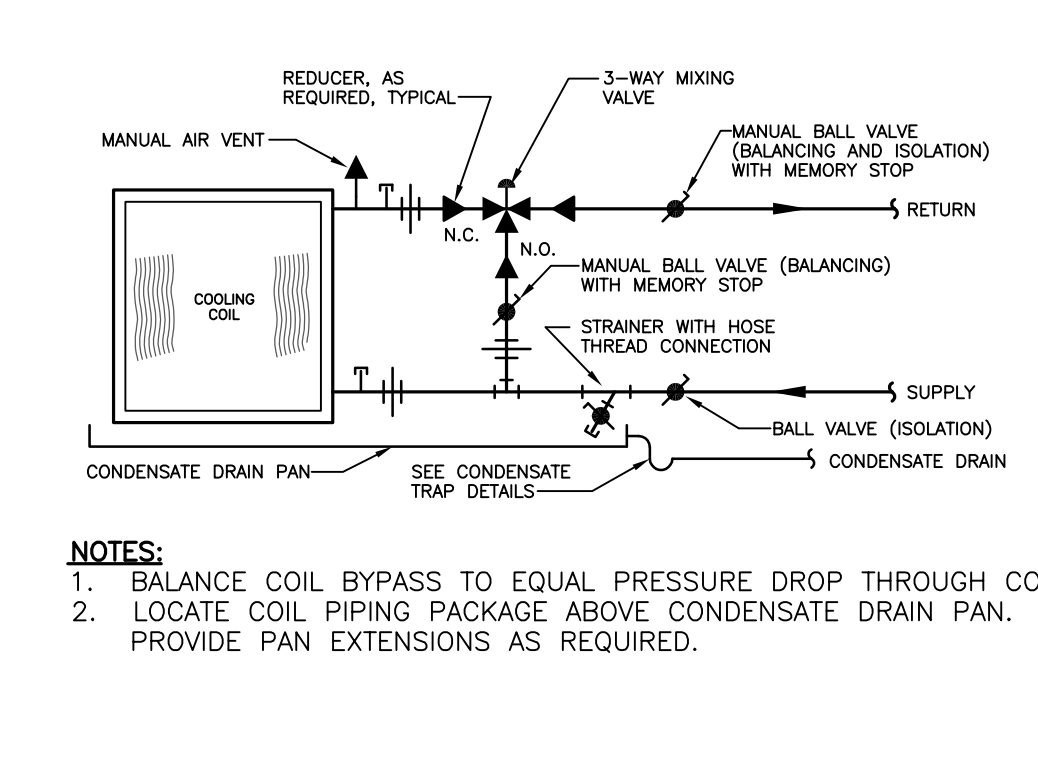
1/8" = 1'-0"



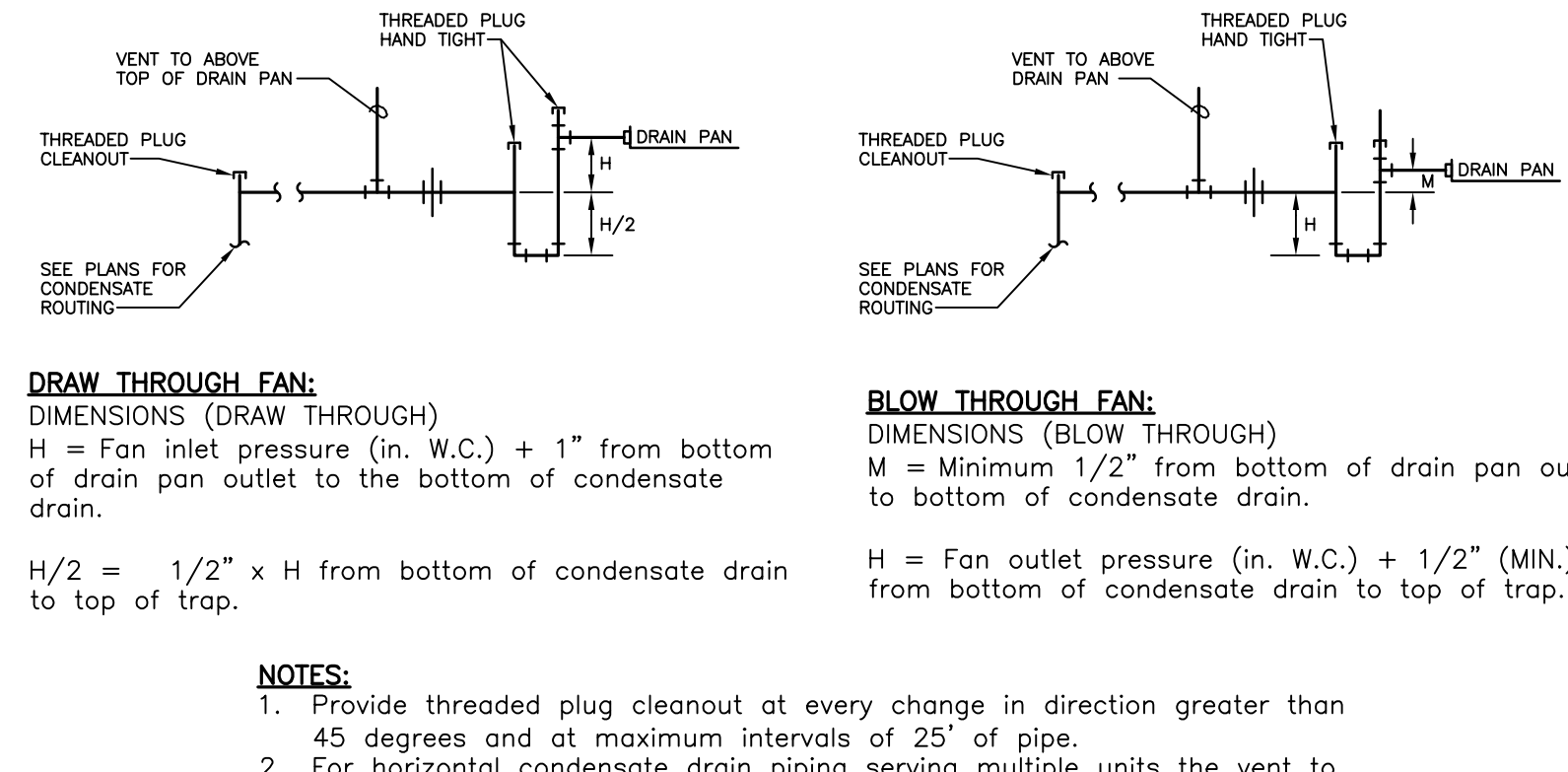
A FIRE DAMPER FLOOR PENETRATION DETAIL
NO SCALE



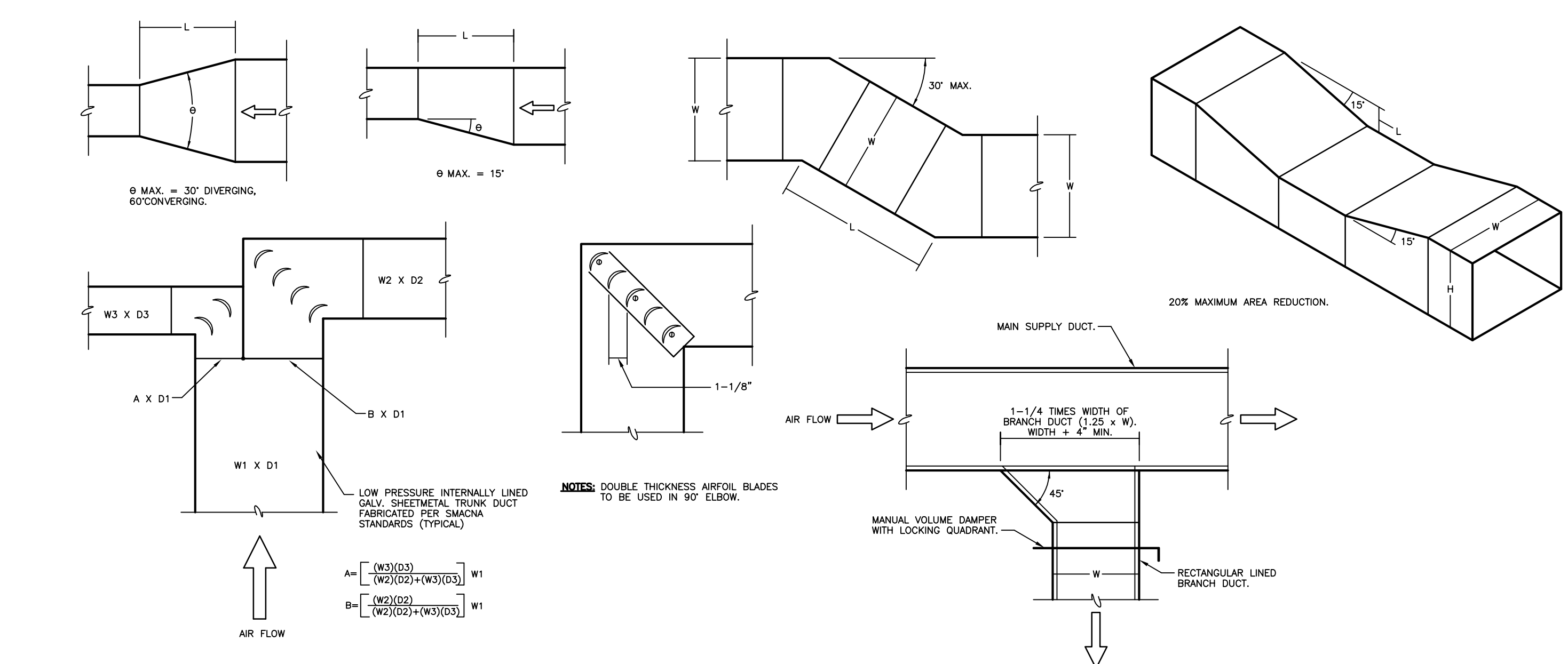
B HOT WATER COIL PIPING DETAIL
NO SCALE



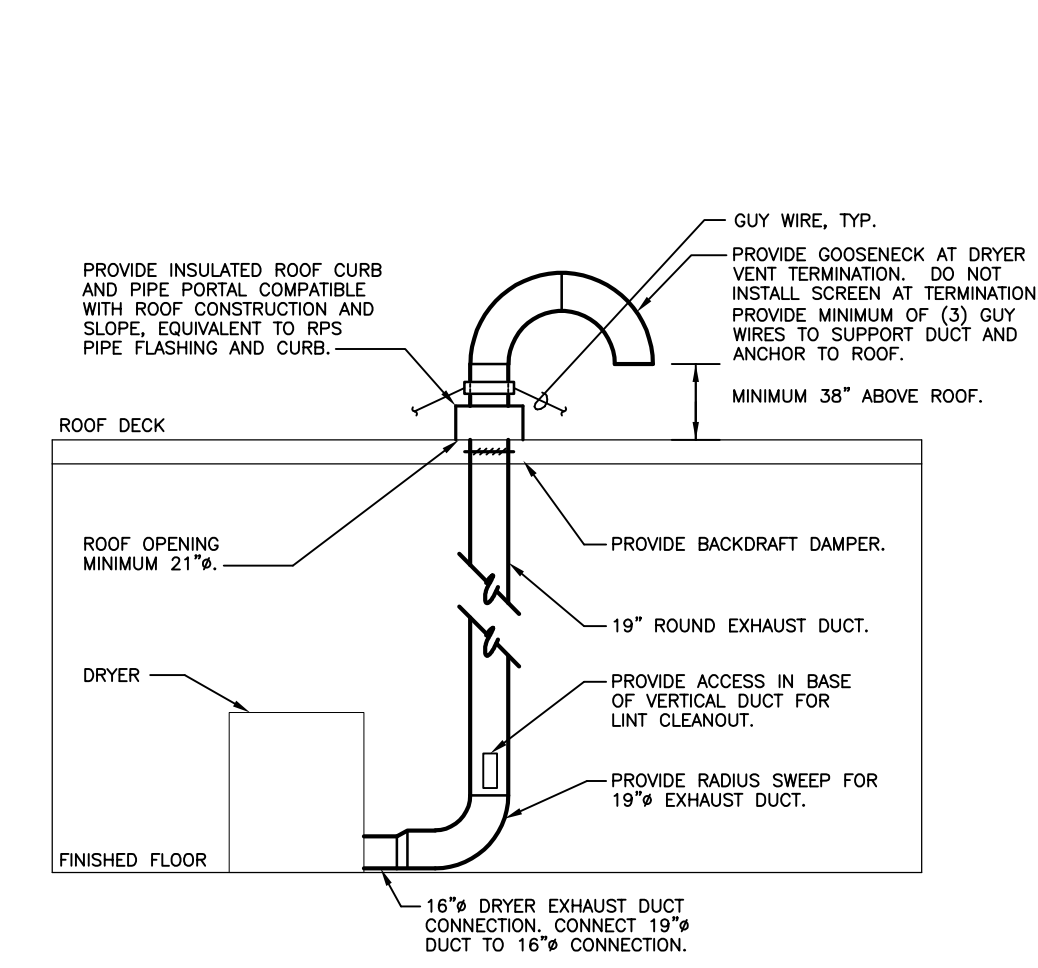
C CHILLED WATER COIL PIPING DETAIL
NO SCALE



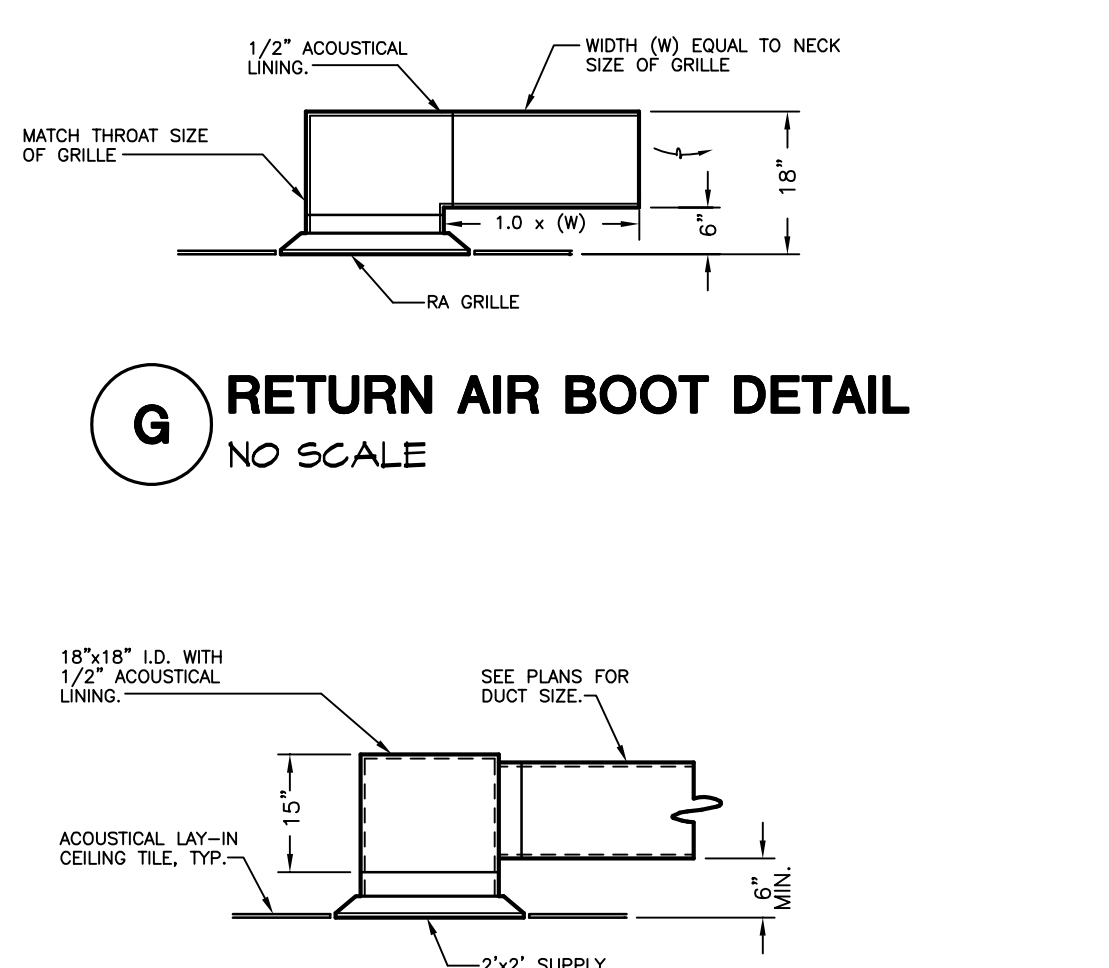
D CONDENSATE TRAP DETAILS
NO SCALE



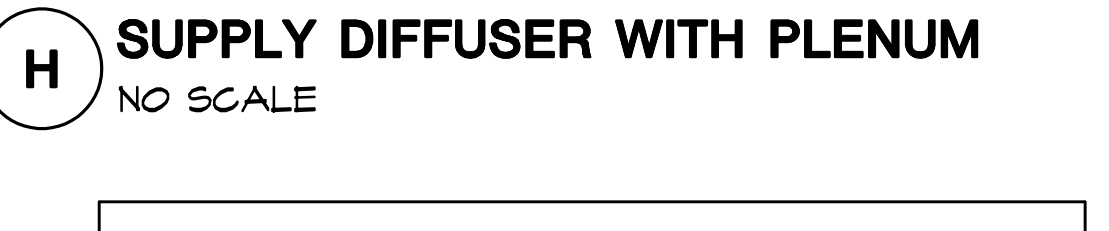
E DUCT CONSTRUCTION DETAIL
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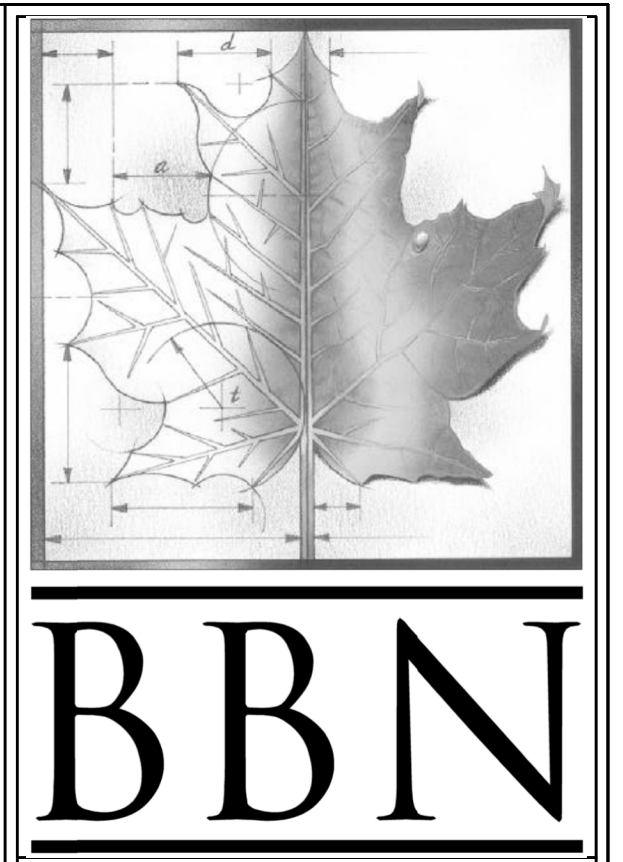
F DRYER EXHAUST DUCT DETAIL
NO SCALE



G RETURN AIR BOOT DETAIL
NO SCALE



H SUPPLY DIFFUSER WITH PLENUM
NO SCALE



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Sheet Title:
LOCKER ROOM MECHANICAL PLAN

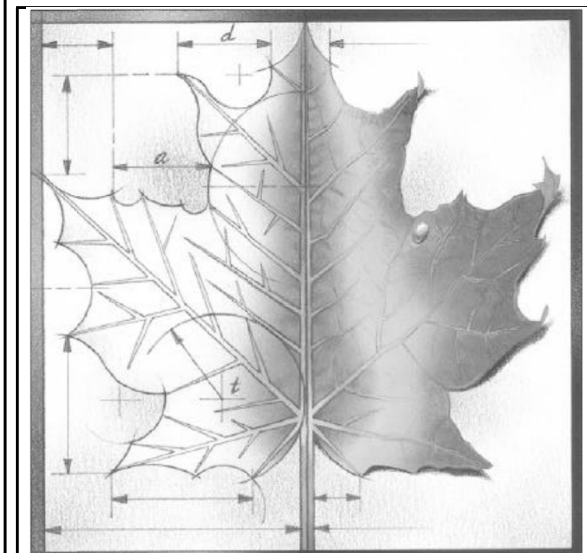
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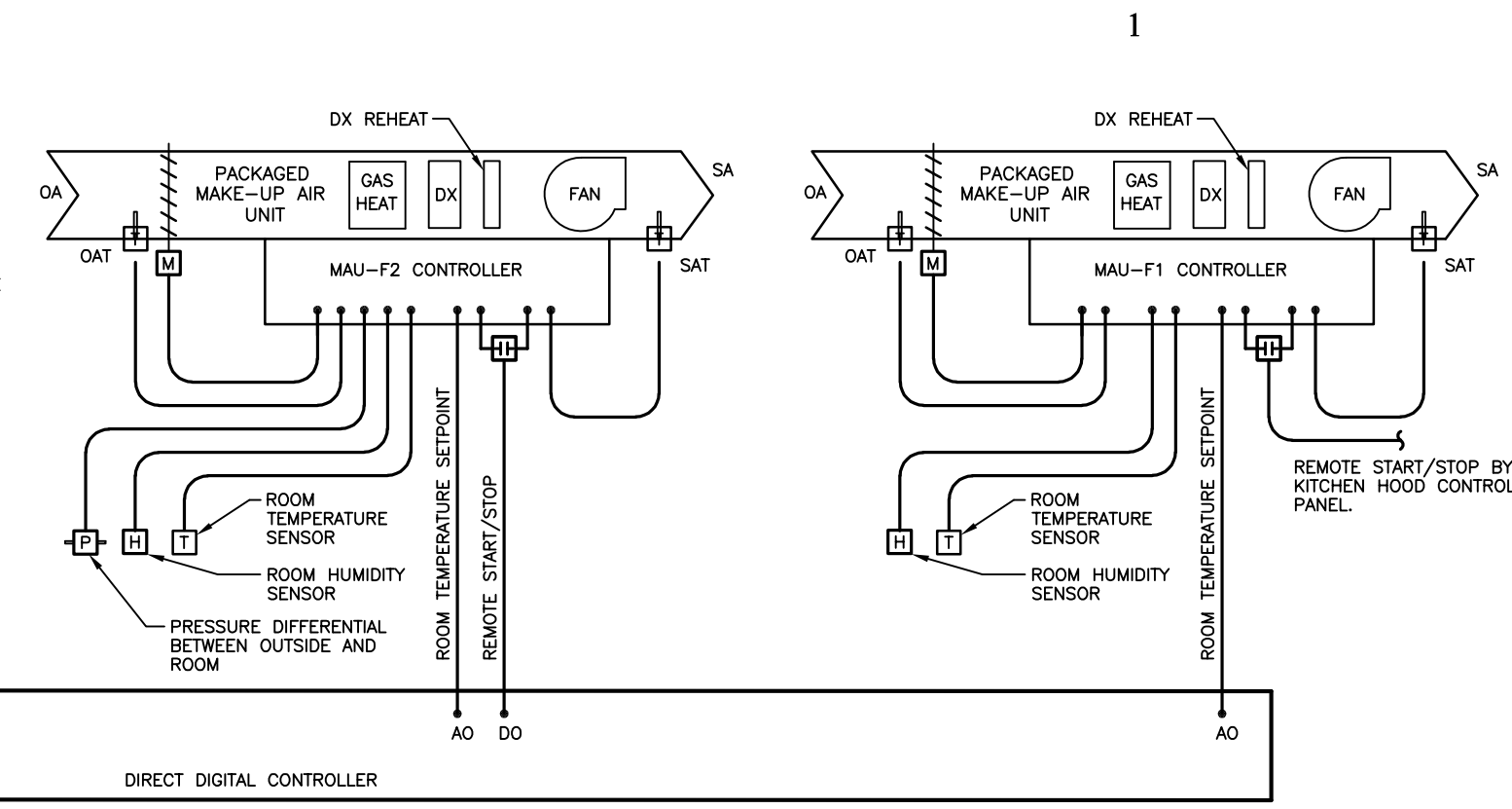
Sheet Title:

**MECHANICAL
DETAILS**

Sheet: **M103**

Of:

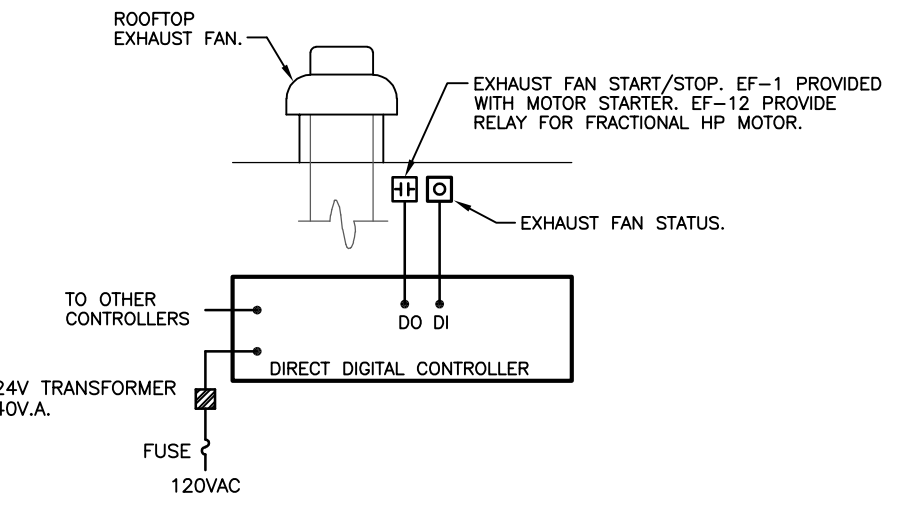
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SEQUENCE OF OPERATION:

1. Make-up Air Unit (MAU) shall be provided with the equipment manufacturer's controller to provide the control sequences as described in the MAU Specification. Control devices connected to the MAU controller shall be provided with the MAU. Building Controls Supplier shall supply the following inputs to the MAU controller.
 - a. Space temperature setpoint from Blower Coil BC-3.
 - b. Remote Start/Stop for MAU-F2 (MAU-F1 remote start/stop by kitchen hood control panel).
2. Remote Start/Stop: When any Fire Ready Range Hood exhaust fan starts start MAU-F2.
3. Heating: Sequenced by internal MAU controller to maintain space temperature setpoint.
4. Cooling: Sequenced by internal MAU controller to maintain space temperature setpoint.
5. Dehumidification: Sequenced by internal MAU controller to maintain humidity setpoint.

**A FACS ROOM HVAC CONTROL DIAGRAM
NO SCALE**

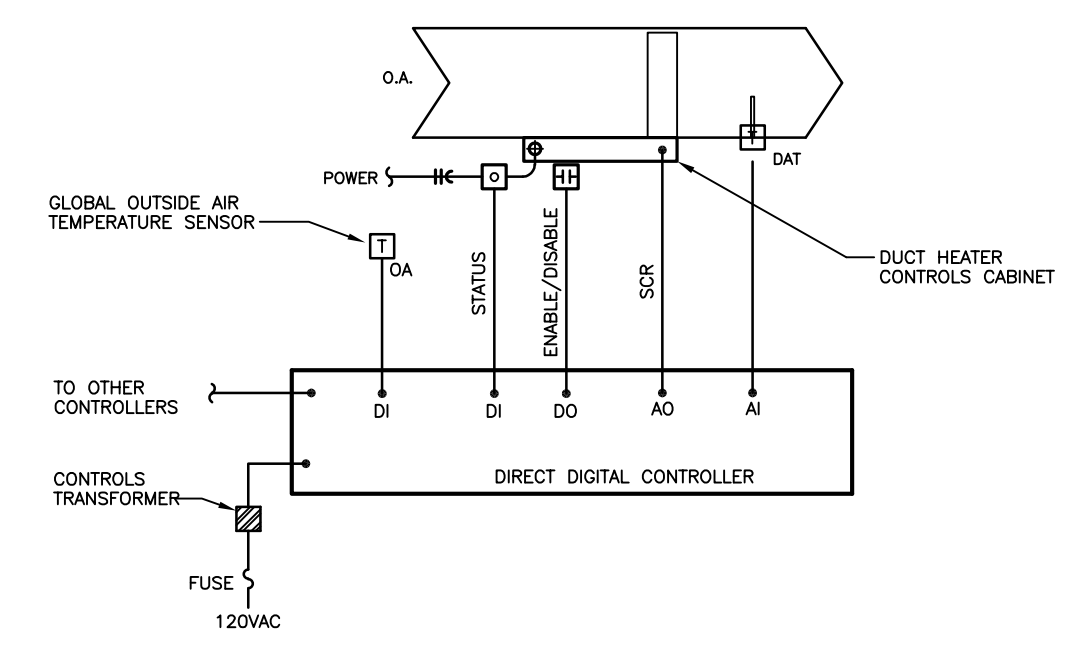


NOTE: Exhaust Fan EF-1 is a new exhaust fan to replace an existing exhaust fan. The existing building controls serving the original exhaust fan shall be reconnected to EF-1. Contractor to verify existing controls and sequence and provide additional control components and programming to execute the sequence below and maintain existing gymnasium RTU interlocks.

SEQUENCE OF OPERATION:

1. Unit shall cycle from occupied to unoccupied operation based on an individual time schedule.
 - a. Run fan during occupied periods.
 - b. Interlock occupied/unoccupied operation with associated Locker Room Blower Coils and Fan Coil Units, see Blower Coil and Fan Coil Unit Control Diagrams.
2. Ventilation: Open outside air damper during occupied periods, see plans for location.
3. Over-ride: See Blower Coil and Fan Coil Unit Control Diagrams.
4. Alarms: Fan failure.

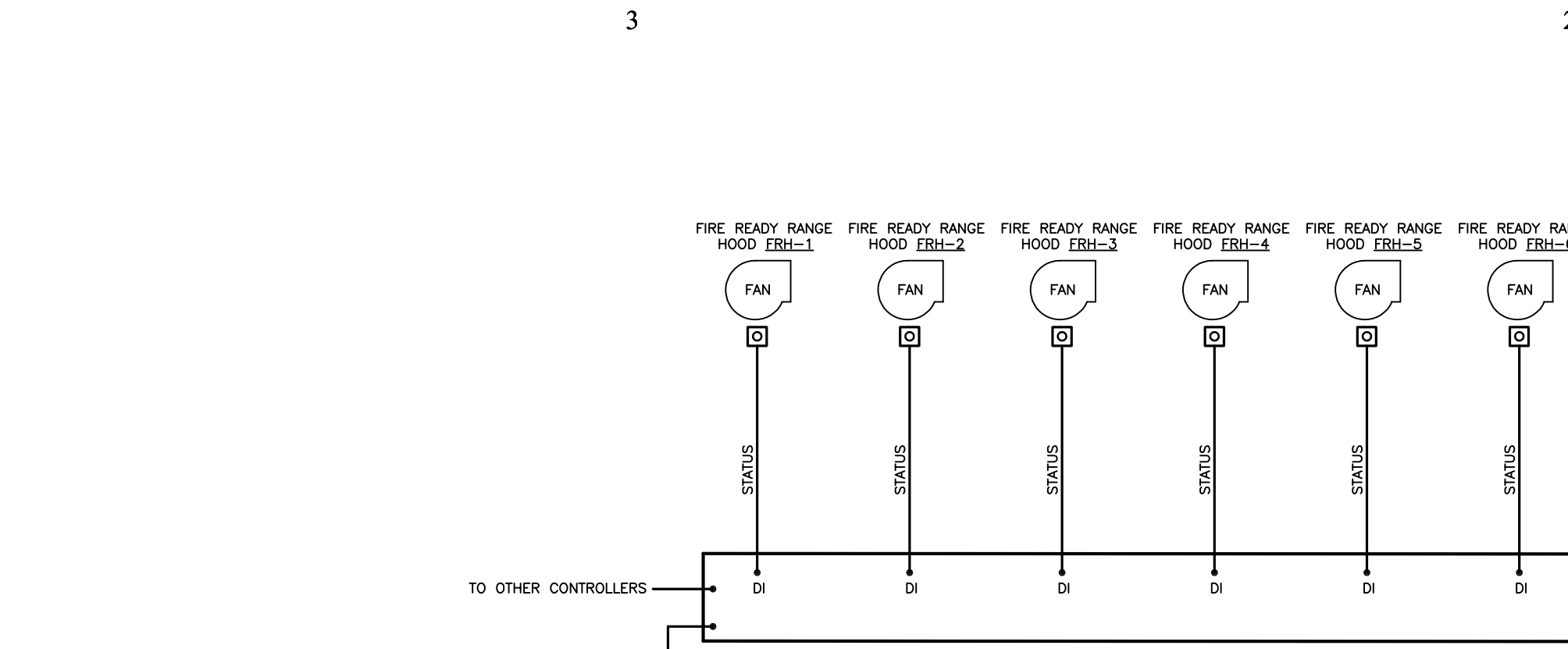
**D LOCKER ROOM EXHAUST FAN CONTROL DIAGRAM
NO SCALE**



SEQUENCE OF OPERATION:

1. Duct heater shall be enabled and disabled based on the occupancy schedule of the air handling equipment served. Enable duct heater during occupied periods when outside air temperature is less than 50 degrees F (adj.).
2. Duct heater is provided with a fan flow safety switch to enable operation. Fan flow switch shall remain and shall not trigger an alarm when preventing duct heater operation.
3. Modulate duct heater to maintain a 45 degree F (adj.) discharge air temperature.
4. Alarms: discharge air temperature less than 40 degrees F (adj.), failure to start.

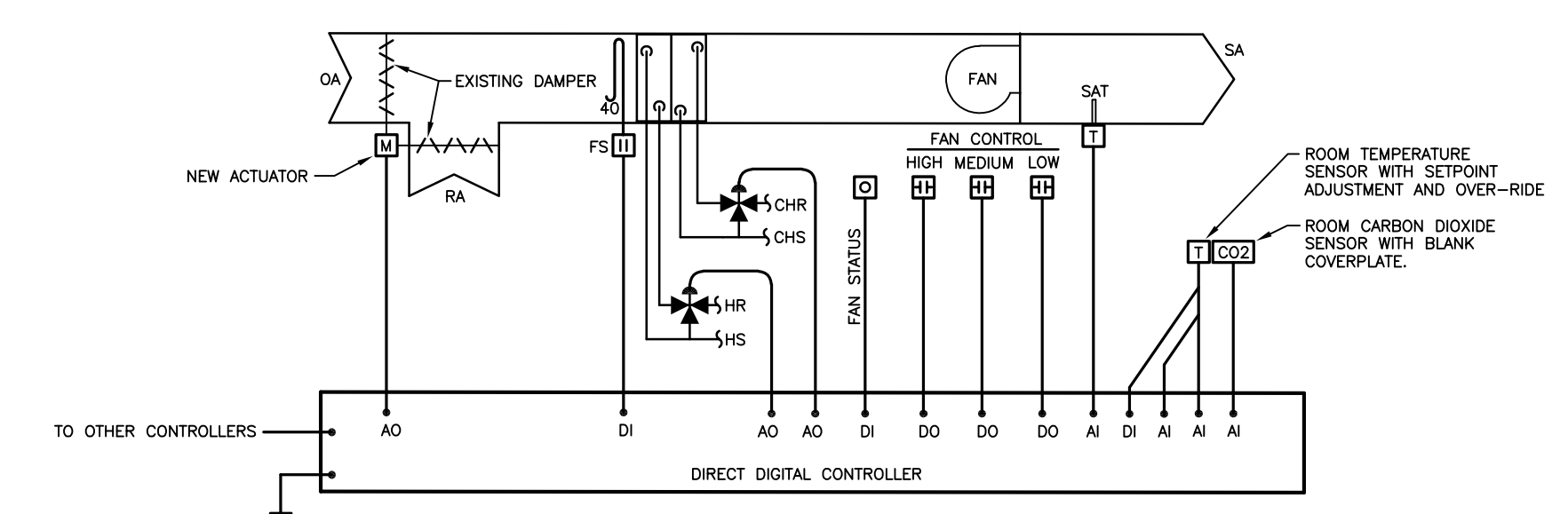
**G DUCT HEATER CONTROL DIAGRAM
NO SCALE**



SEQUENCE OF OPERATION:

1. Unit shall cycle from occupied to unoccupied operation based on the schedule of Locker Room Exhaust Fan EF-12.
 - a. Run fan during occupied periods.
 - b. Cycle fan during unoccupied periods to maintain setback temperature setpoint.
2. Heating: Modulate the heating water valve to maintain the space temperature setpoint.
3. Cooling: Modulate the chilled water valve to maintain the space temperature setpoint.
4. Ventilation: See Locker Room Exhaust Fan Control Diagram.
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.
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.

**C BLOWER COIL BC-1 AND BC-2 CONTROL DIAGRAM
NO SCALE**

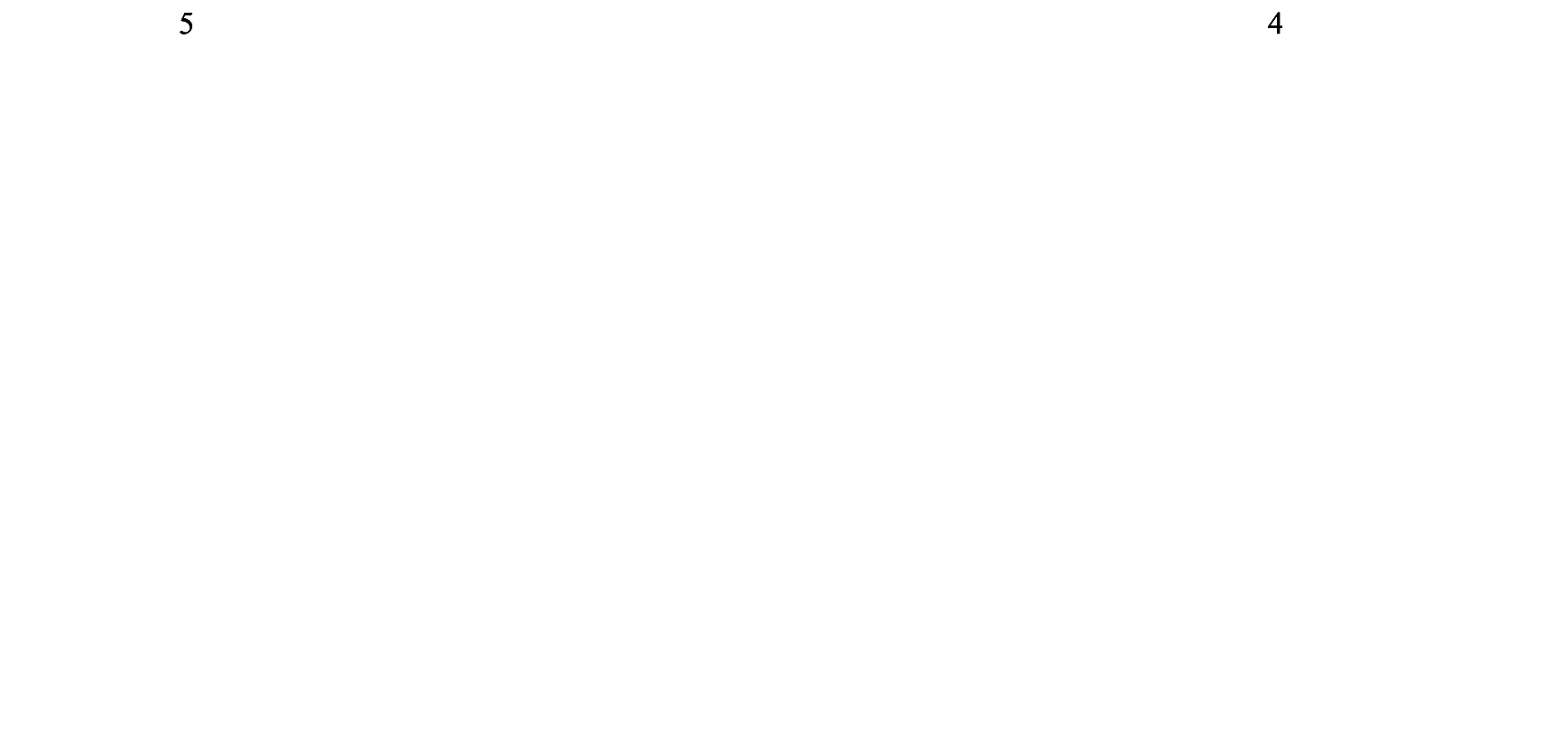


NOTE: Remove existing unit ventilator manufacturer's controls and associated valves, actuators, sensors and circuitry. Verify existing damper condition and damper force, provide new actuator and new blade seals and linkage as required. Provide new unitary controller and control devices as indicated.

SEQUENCE OF OPERATION:

1. Unit shall cycle from occupied to unoccupied operation based on an individual time schedule.
 - a. Run fan during occupied periods.
 - b. Close outside air damper and cycle fan during unoccupied periods to maintain setback temperature setpoint.
 - c. Interlock occupied/unoccupied operation with associated duct heater see duct heater control diagram and floor plans.
2. Heating: Modulate the heating water valve and sequence the fan speed to maintain the space temperature setpoint.
3. Cooling: Modulate the chilled water valve and sequence the fan speed 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 volumes to maintain the CO2 setpoint (adj.), initially set at 1,000 ppm. See floor plans for minimum and maximum outside air volumes. The maximum ventilation rate shall be set in conjunction with the test and balance contractor and damper position shall be indexed to provide the scheduled value at each fan speed.
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.
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.

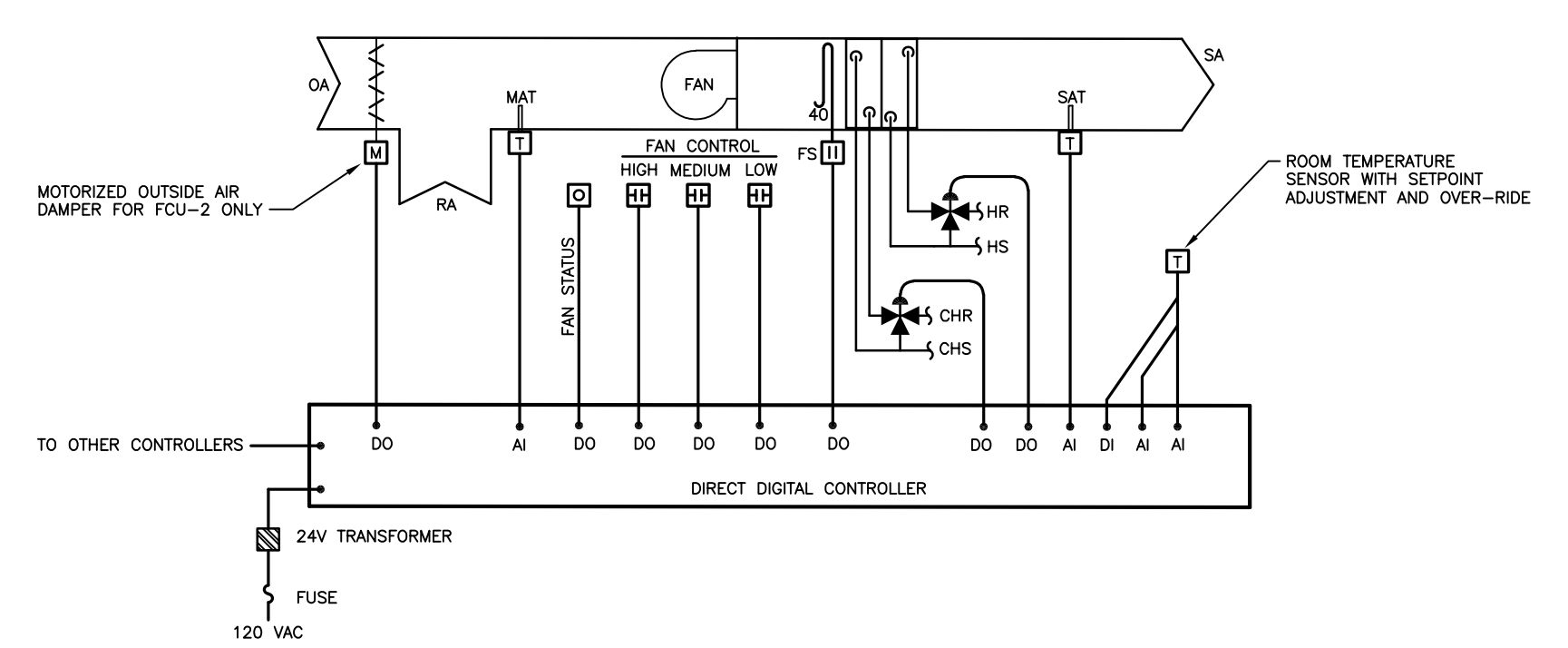
**F UNIT VENTILATOR CONTROL DIAGRAM
NO SCALE**



SEQUENCE OF OPERATION:

1. Unit shall cycle from occupied to unoccupied operation based on an individual time schedule.
 - a. Run fan during occupied periods.
 - b. Close outside air damper and cycle fan during unoccupied periods to maintain setback temperature setpoint.
 - c. Interlock occupied/unoccupied operation with associated duct heater see duct heater control diagram and floor plans.
2. Heating: Modulate the heating water valve to maintain the space temperature setpoint.
3. 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 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 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.

**B BLOWER COIL BC-3 CONTROL DIAGRAM
NO SCALE**



SEQUENCE OF OPERATION:

1. Unit shall cycle from occupied to unoccupied operation.
 - a. FCU-1 shall be based on the schedule of Locker Room Exhaust Fan EF-1.
 - b. FCU-2 shall be based on an individual time schedule.
 - c. Run fan during occupied periods.
 - d. Cycle fan during unoccupied periods to maintain setback temperature setpoint.
2. Heating: Modulate the heating water valve and sequence the fan to maintain the space temperature setpoint.
3. Cooling: Modulate the chilled water valve and sequence the fan to maintain the space temperature setpoint.
4. Ventilation:
 - a. FCU-1: No outside air provisions.
 - 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 damper position shall be indexed to provide the scheduled value at each fan speed.
5. Over-ride:
 - 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.
 - b. FCU-2: 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.
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.

**E FAN COIL UNIT CONTROL DIAGRAM
NO SCALE**

5

4

3

2

1

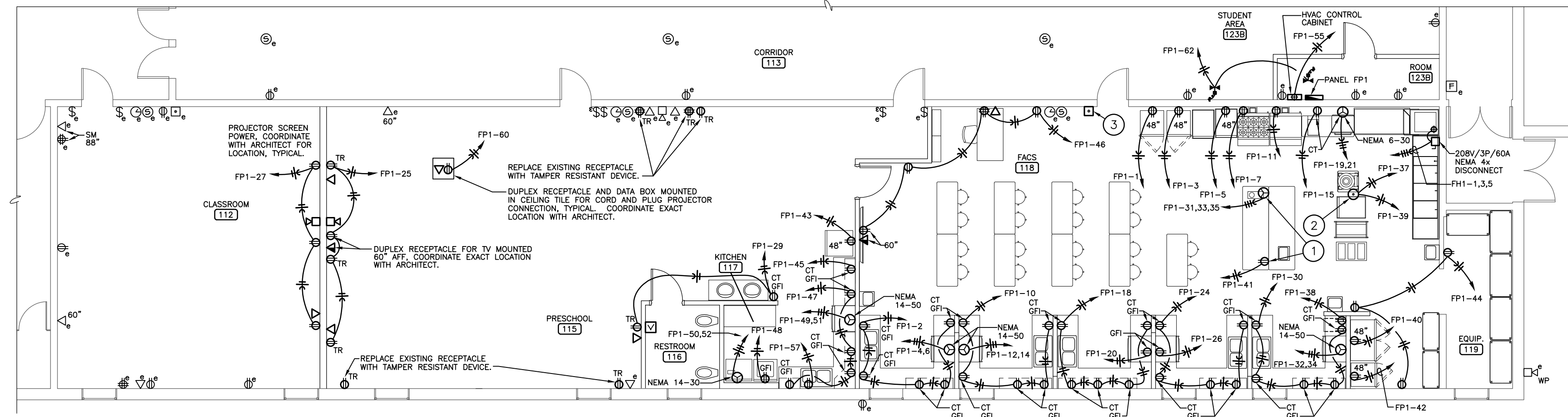
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ELECTRICAL NOTES BY SYMBOL:

- 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".

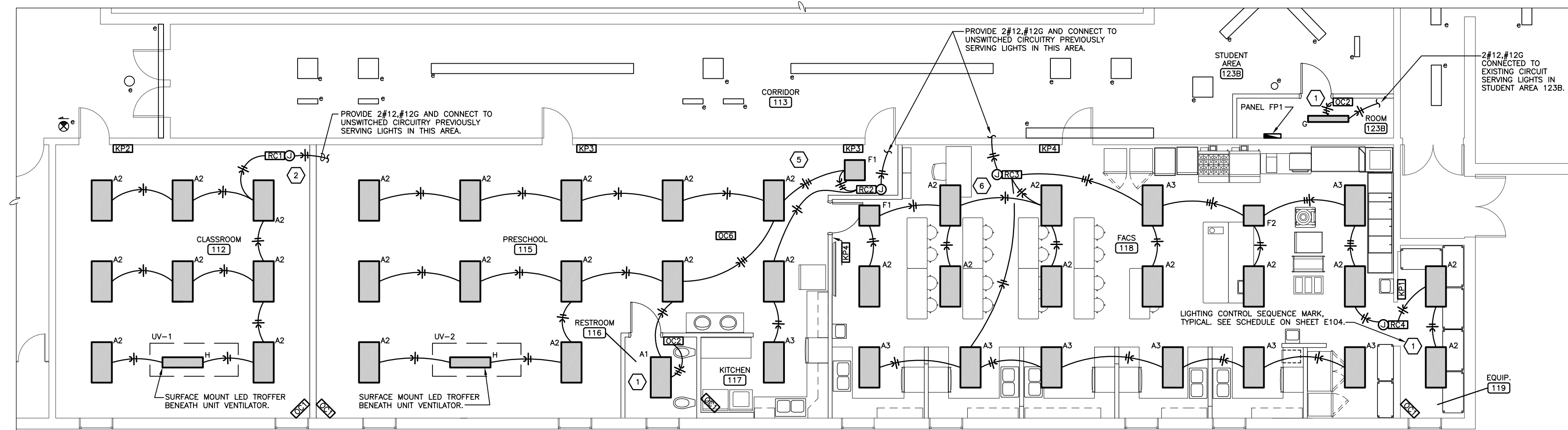


FACS ROOM GROUND FLOOR PLAN - POWER AND FIRE ALARM

1/8" = 1'-0"

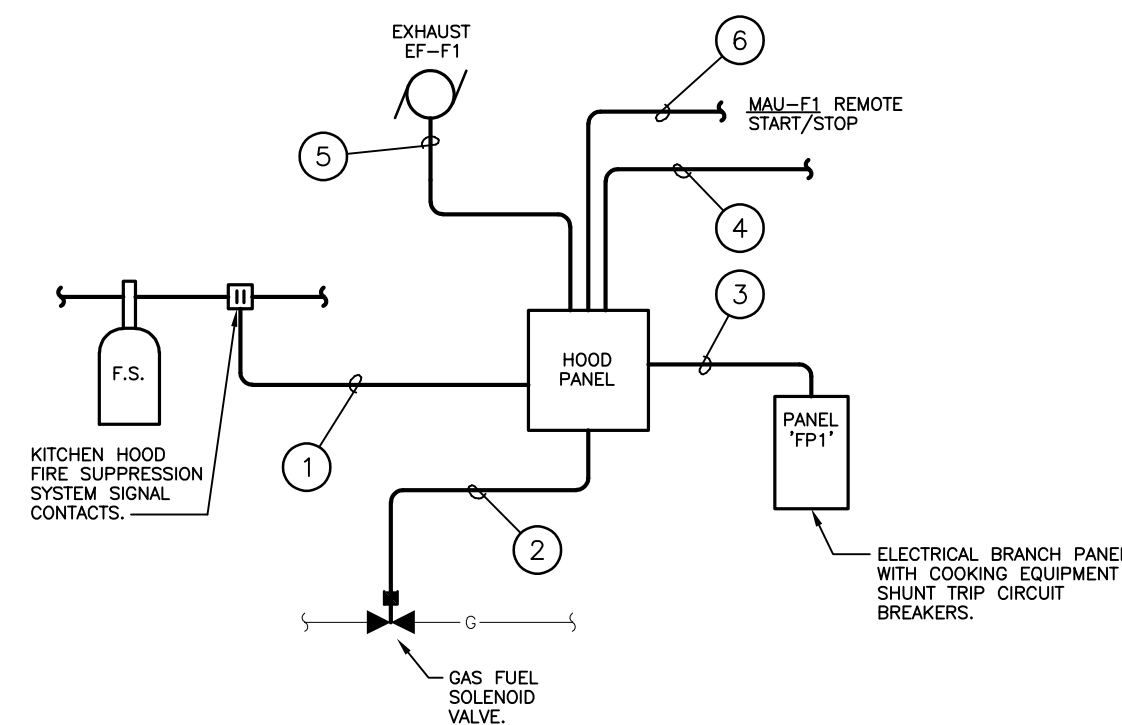
FIRE ALARM SYSTEM NOTES

- 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 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 concealed. Circuitry above accessible ceilings may be plenum rated cable.
- 5. 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.



FACS ROOM GROUND FLOOR PLAN - LIGHTING

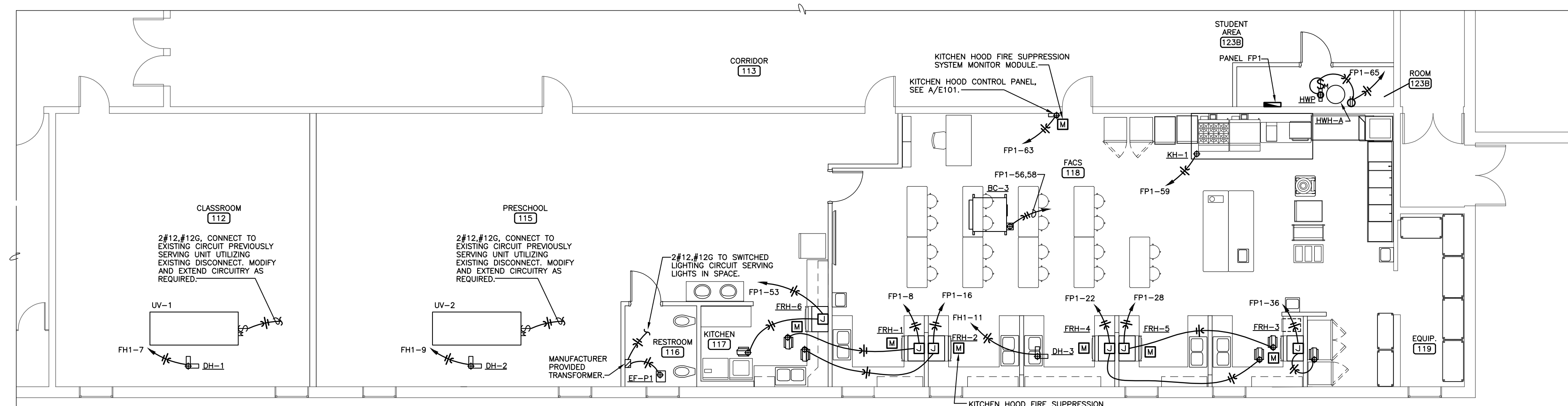
1/8" = 1'-0"



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 MAU=F1 controller. Provide wiring of MAU shut-down upon activation of the hood fire suppression system. Coordinate requirements with Mechanical Contractor.

A KITCHEN HOOD CONTROL DETAIL
NO SCALE



FACS ROOM GROUND FLOOR PLAN - HVAC POWER

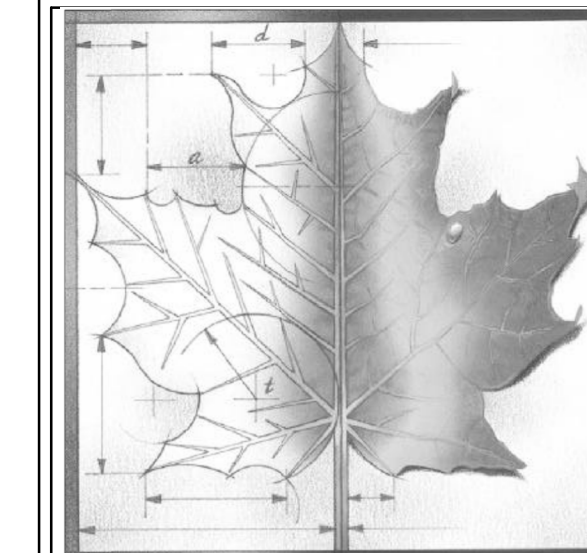
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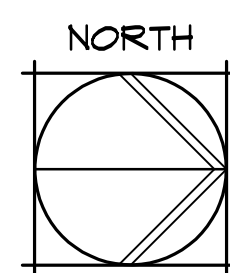
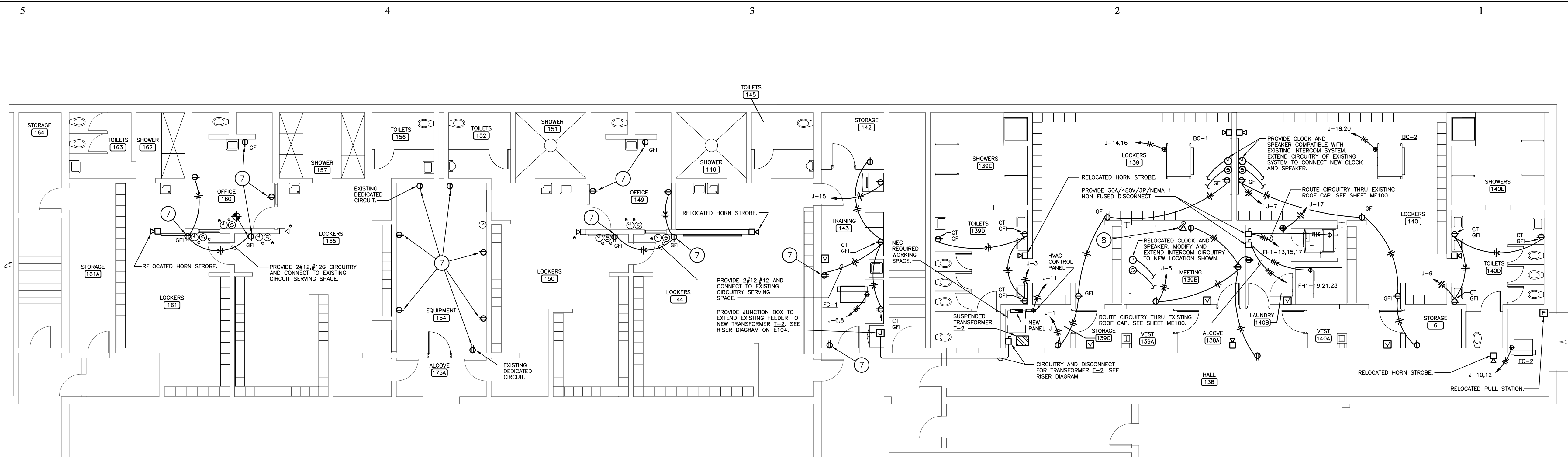
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Sheet Title:
FACS ROOM ELECTRICAL PLANS

Sheet:
E101

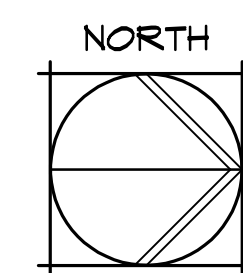
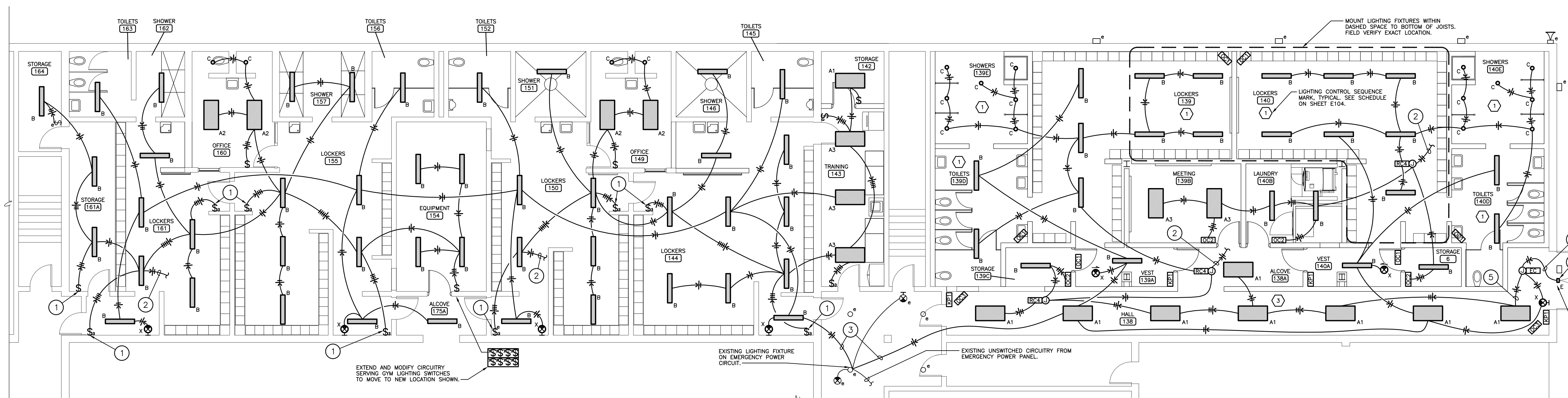
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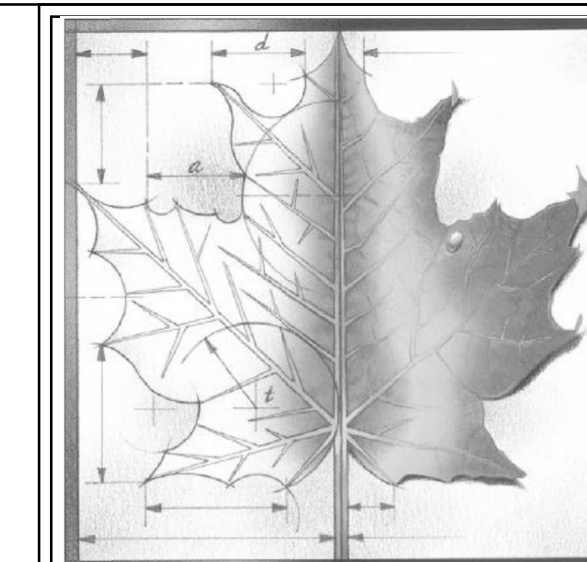
LOCKER ROOM GROUND FLOOR PLAN - POWER AND FIRE ALARM
1/8" = 1'-0"

ELECTRICAL NOTES BY SYMBOL

- 1 PROVIDE NEW SWITCH AND COVERPLATE. INSTALL IN EXISTING RECESSED WALL BOX AND CONNECT WITH NEW CIRCUITRY.
- 2 PROVIDE 2#12,#12G CIRCUITRY AND CONNECT TO EXISTING CIRCUIT SERVING LIGHTING FIXTURES IN SPACE.
- 3 PROVIDE 2#12,#12G CIRCUITRY AND CONNECT TO EXISTING EMERGENCY LIGHTING CIRCUIT.
- 4 MOUNT FIXTURE AT 8'-9" ABOVE FINISHED GRADE. UTILIZE EXISTING JUNCTION BOX LOCATION.
- 5 UNSWITCHED NON EMERGENCY POWER TO EMERGENCY LIGHTING CONTROLLER.
- 6 SWITCHED EMERGENCY POWER THRU EMERGENCY LIGHTING CONTROLLER.
- 7 PROVIDE NEW DEVICE. INSTALL IN EXISTING RECESSED WALL BOX AND CONNECT TO EXISTING CIRCUITRY. PROVIDE NEW COVERPLATE.
- 8 PROVIDE EMPTY 3/4" EMT CONDUIT CONCEALED IN WALL TO ABOVE LAY-IN CEILING. TERMINATE WITH SWEEP AND SMOOTH BUSHING.



LOCKER ROOM GROUND FLOOR PLAN - LIGHTING
1/8" = 1'-0"



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Sheet Title:
LOCKER ROOM ELECTRICAL PLANS

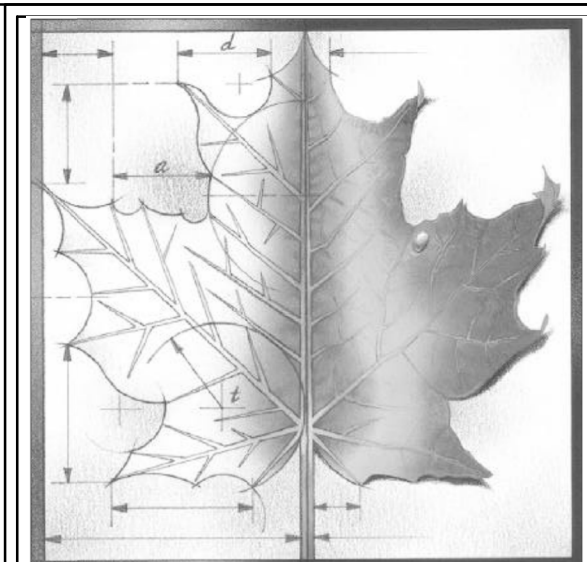
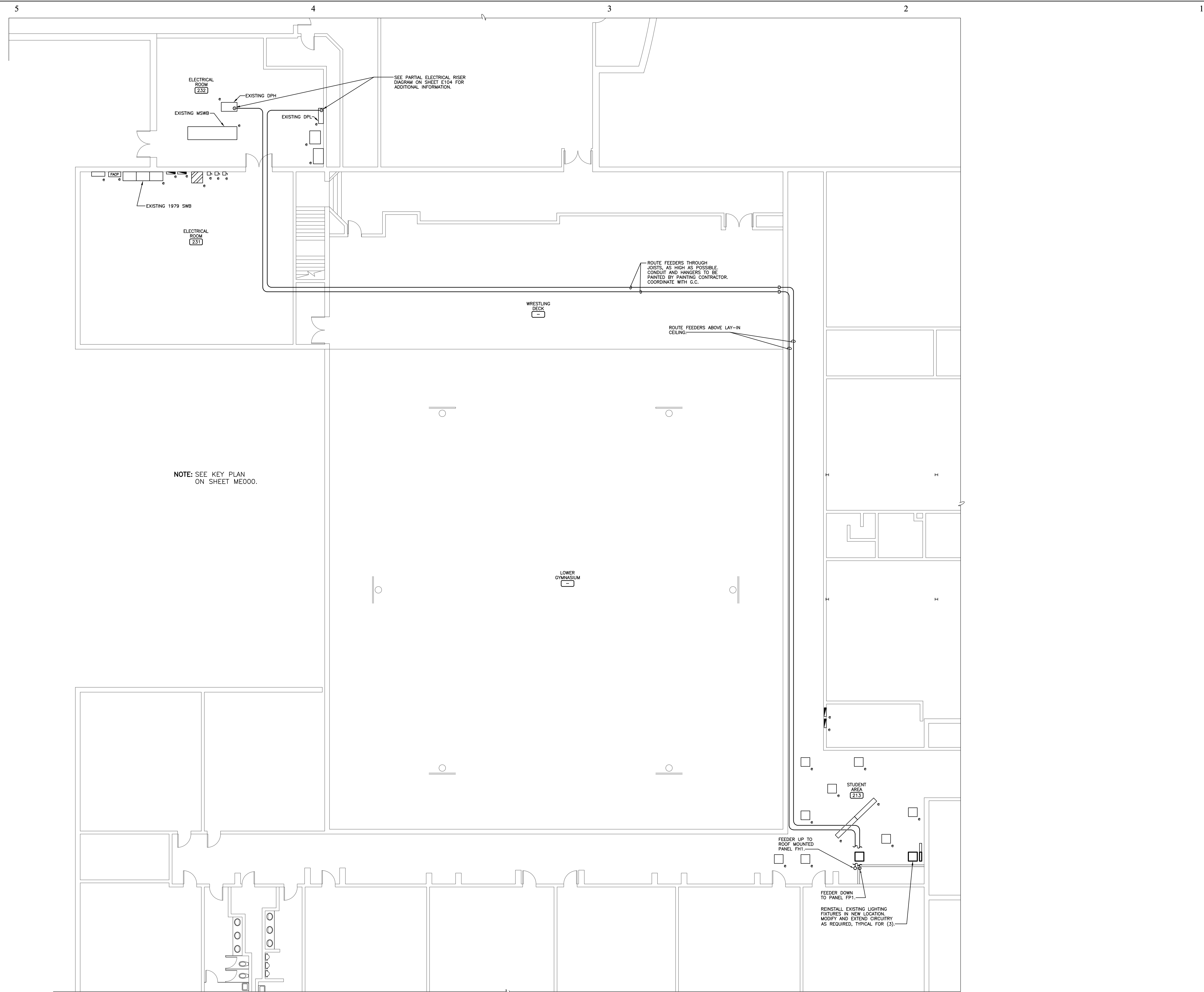
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Sheet Title:
2ND FLOOR ELECTRICAL PLAN

Sheet:
E103

SECOND FLOOR PLAN - ELECTRICAL
3/32" = 1'-0"

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PANELBOARD SCHEDULE					
PANEL DESIGNATION: Panel 'FP1'		MIN A.I.C.: 10,000		FEATURES:	
LOCATION: Room 123B		MCB Amps: 200		- Panelboard Construction	
VOLTS: 120/208		BUS Amps: 200		- Equipment Ground Bus	
CONFIGURATION: 3 Phase/4 Wire		ENCL.: NEMA 1		- Equal to Square D NQ	
MOUNTING: Surface					
CKT.	Description	Conductors	C/B	CKT.	Description
1	Rcpt - 118 Comp. Refrig. Left	2#12,#12G	20/1	2	Rcpt - S. Station Gen. Use
3	Rcpt - 118 Comp. Refrig. Right	2#12,#12G	20/1	4	Rcpt - S. Station Oven
5	*Rcpt - 118 Comp. Holding Cab.	2#12,#12G	20/1	6	**FRH-1
7	*Rcpt - 118 Comp. Range/Oven	2#12,#12G	20/1	8	Rcpt - S. Mid Station Gen. Use
9	(Shunt Trip)			10	Rcpt - S. Mid Station Oven
11	*Rcpt - 118 Comp. Griddle/Oven	2#12,#12G	20/1	12	**FRH-2
13	(Shunt Trip)			14	Rcpt - Mid Station Gen. Use
15	*Rcpt - 118 Comp. Fryer	2#12,#12G	20/1	16	Rcpt - Mid Station Gas Oven
17	(Shunt Trip)			18	**FRH-4
19	Rcpt - 118 Comp. Micro./Steam	2#10,#10G	30	20	Rcpt - N. Mid Station Gen. Use
21	(Shunt Trip)			22	Rcpt - N. Mid Station Gas Oven
23				24	**FRH-5
25	Rcpt - S. Preschool 115	2#12,#12G	20/1	26	Rcpt - N. Station Gen. Use
27	Rcpt - N. Classroom 112	2#12,#12G	20/1	28	Rcpt - N. Station Oven
29	Rcpt - E. Preschool 115	2#12,#12G	20/1	30	**FRH-3
31				32	Rcpt - Undercounter Ice Maker
33	Rcpt - 118 Food Processor	3#12,#12G	30	34	Rcpt - 118 Freezer
35				36	Rcpt - 118 Refrigerator
37	Rcpt - 118 Comp. 20 Qt. Mixer	2#12,#12G	20/1	38	*Rcpt - 118 Class Gen. Use
39	Rcpt - 118 Comp. Transport Cab.	2#12,#12G	20/1	40	*Rcpt - 118 Class Gen. Use
41	Rcpt - 118 Center Work Table	2#12,#12G	20/1	42	*Rcpt - 118 Washing Machine
43	Rcpt - 115 Refrigerator	2#12,#12G	20/1	44	Rcpt - 115 Dryer
45	Rcpt - 115 Microwave	2#12,#12G	20/1	46	Spare
47	Rcpt - 115 Gen. Use	2#12,#12G	20/1	48	Spare
49	Rcpt - 115 Range/Oven	3#8,#10G	50	50	Spare
51	**FRH-6			52	Spare
53	FACs HVAC Control Cabinet	2#12,#12G	20/1	54	Spare
55	Rcpt - 115 Dishwasher	2#12,#12G	20/1	56	Blower Coil Unit BC-3
57	Rcpt - 115 Dishwasher	2#12,#12G	20/1	58	Rcpt - 115 Projector
59	KH-1 Lights	2#12,#12G	20/1	60	Gas Solenoid Valve
61	KH-1 Control Panel	2#12,#12G	20/1	62	Spare
63	HWH-A and HWP	2#12,#12G	20/1	64	Spare
65	Rcpt - Rooftop Units	2#12,#12G	20/1	66	Spare
67	Spare			68	Spare
69	Spare			70	Spare
71	Spare			72	Spare

* Provide GFCI protected breaker.
** 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	
CONFIGURATION: 3 Phase/4 Wire		ENCL.: NEMA 3R		- Equal to Square D NF	
MOUNTING: Surface					
CKT.	Description	Conductors	C/B	CKT.	Description
1	FACS 118	3#10,#10G	30	2	MAU-F1
3	Dishwasher	3#10,#10G	30	4	
5				6	
7	Duct Heater DH-1	2#12,#12G	20/1	8	
9	Duct Heater DH-2	2#12,#12G	20/1	10	MAU-F2
11	Duct Heater DH-3	2#12,#12G	20/1	12	
13	Laundry 140B	3#10,#10G	15	14	EF-F1
15	Clothes Washer	3#10,#10G	15	16	
17				18	
19	Laundry 140B	3#10,#10G	15	20	Spare
21	Clothes Dryer	3#10,#10G	15	22	Spare
23				24	Spare

PANELBOARD SCHEDULE					
PANEL DESIGNATION: PANEL 'J'		MIN A.I.C.: 10,000		FEATURES:	
LOCATION: Storage 139C		MCB Amps: 100		- Panelboard Construction	
VOLTS: 120/240		BUS Amps: 80		- Equipment Ground Bus	
CONFIGURATION: 1 Phase/3 Wire		ENCL.: NEMA 1		- Equal to Square D NQ	
MOUNTING: Surface					
CKT.	Description	Conductors	C/B	CKT.	Description
1	Rcpt - Stor. 139C, Lockers 139	2#12,#12G	20/1	2	Spare
3	Rcpt - Toilets 139D	2#12,#12G	20/1	4	Spare
5	Rcpt - Meeting 139B, Hall 138	2#12,#12G	20/1	6	FC-1
7	Rcpt - Storage 6, Lockers 140	2#12,#12G	20/1	8	
9	Rcpt - Toilets 140D	2#12,#12G	20/1	10	FC-2
11	HVAC Control Panel	2#12,#12G	15/1	12	
13	EF-12	2#12,#12G	20/1	14	BC-1
15	Rcpt - Ice Machine Training 143	2#12,#12G	20/1	16	BC-2
17	Rcpt - Washer chemicals	2#12,#12G	20/1	18	
19	Spare			20	Spare
21	Spare			22	Spare
23	Spare			24	Spare
25	Spare			26	Spare
27	Spare			28	Spare
29	Spare			30	Spare

LIGHTING CONTROL DEVICE SCHEDULE				
MARK	MANUF.	DESCRIPTION	MOUNTING	
QCC1	Watt Stopper	LMDC-100 dual technology sensor with passive infrared and ultrasonic sensors, 40 kHz frequency ultrasonic transmission, adjustable time delay, automatic passive 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.	Ceiling/Wall	
QCC2	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, mountable in standard switch box.	Switch Box	
QCC3	Watt Stopper	PW-311 Passive Infrared 0-10V Dimming 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	
QCC4	Watt Stopper	LMPX-100-3 Passive Infrared corner mount occupancy sensor with 2-sided aisle lens, adjustable time delay, sensitivity adjustment, LCD display and pushbuttons for setting sensor and system parameters, and 10' x 60' of coverage. Complete installation for integration to lighting management system.	Ceiling	
QCC5	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	
QCC6	Watt Stopper	LMDC-100 dual technology sensor with passive infrared and ultrasonic sensors, 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.	Ceiling	
RC1	Watt Stopper	LMRC-211 Series Digital On/Off/0-10 Volt dimming single relay room controller. Plenum-rated construction for mounting above ceiling, RJ45 receptacles for cable connections. Complete installation for integration to lighting management system.	Above Ceiling	
RC2	Watt Stopper	LMRC-212 Series Digital On/Off/0-10 Volt dimming dual relay room controller. Plenum-rated construction for mounting above ceiling, RJ45 receptacles for cable connections. Complete installation for integration to lighting management system.	Above Ceiling	
RC3	Watt Stopper	LMRC-213 Series Digital On/Off/0-10 Volt dimming triple relay room controller. Plenum-rated construction for mounting above ceiling, RJ45 receptacles for cable connections. Complete installation for integration to lighting management system.	Above Ceiling	
RC4	Watt Stopper	LMRC-101 Series Digital On/Off room controller. Plenum-rated construction for mounting above ceiling, RJ45 receptacles for cable connections. Complete installation for integration to lighting management system.	Above Ceiling	
KP1	Watt Stopper	LMSW-101 Series 1-Button wall switch.	Switch Box	
KP2	Watt Stopper	LMSW-102 Series 2-Button wall switch. Provide custom engraving for buttons, approve with Architect and Owner before ordering.	Switch Box	
KP3	Watt Stopper	LMSW-105 Series 5-Button wall switch. Provide custom engraving for buttons, approve with Architect and Owner before ordering.	Switch Box	
KP4	Watt Stopper	LMSW-108 Series 8-Button wall switch. Provide custom engraving for buttons, approve with Architect and Owner before ordering.	Switch Box	
EC	Watt Stopper	ELCU-200 lighting control unit, device wired to allow for automatic control of lighting through occupancy sensor, and/or dimming device, U.L. 924 listed for use with emergency lighting, 120V operation and plenum-rated.	Above Ceiling	

- NOTES:
1. Install occupancy 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 modifications.

LIGHTING CONTROL SEQUENCE SCHEDULE		
Type	Description	
①	Single Zone with Occupancy Sensor Light fixtures in space controlled by occupancy sensor with manual on/off from pushbutton device located near door.	
②	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.	
③	Typical Corridor Light fixtures in space controlled by occupancy sensor with manual on/off from single button pushbutton devices located at each end of the corridor.	
④	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.	
⑤	2-Zones with Dimming, Occupancy Sensors 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 through 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.	
⑥	3-Zones with Dimming 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 through small buttons #3-#5. 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.	

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

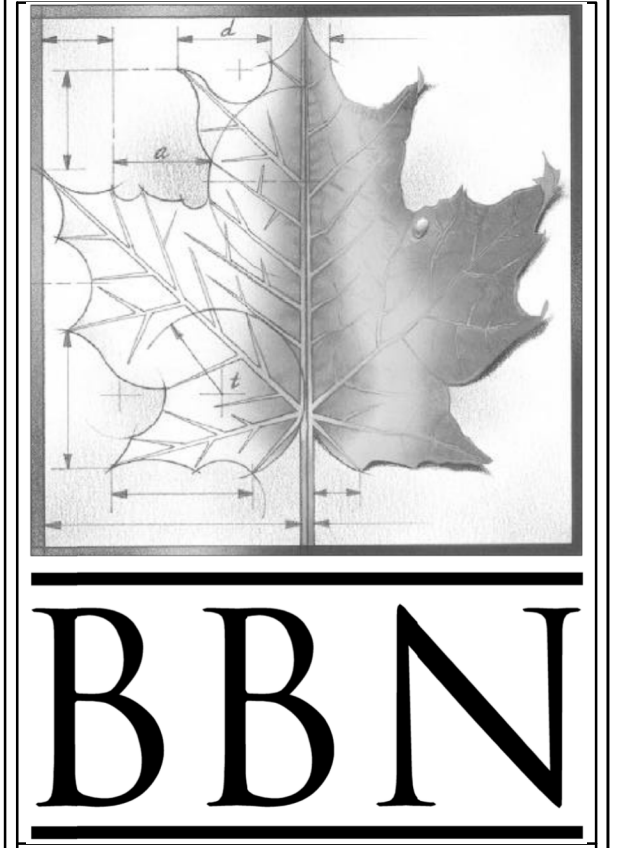
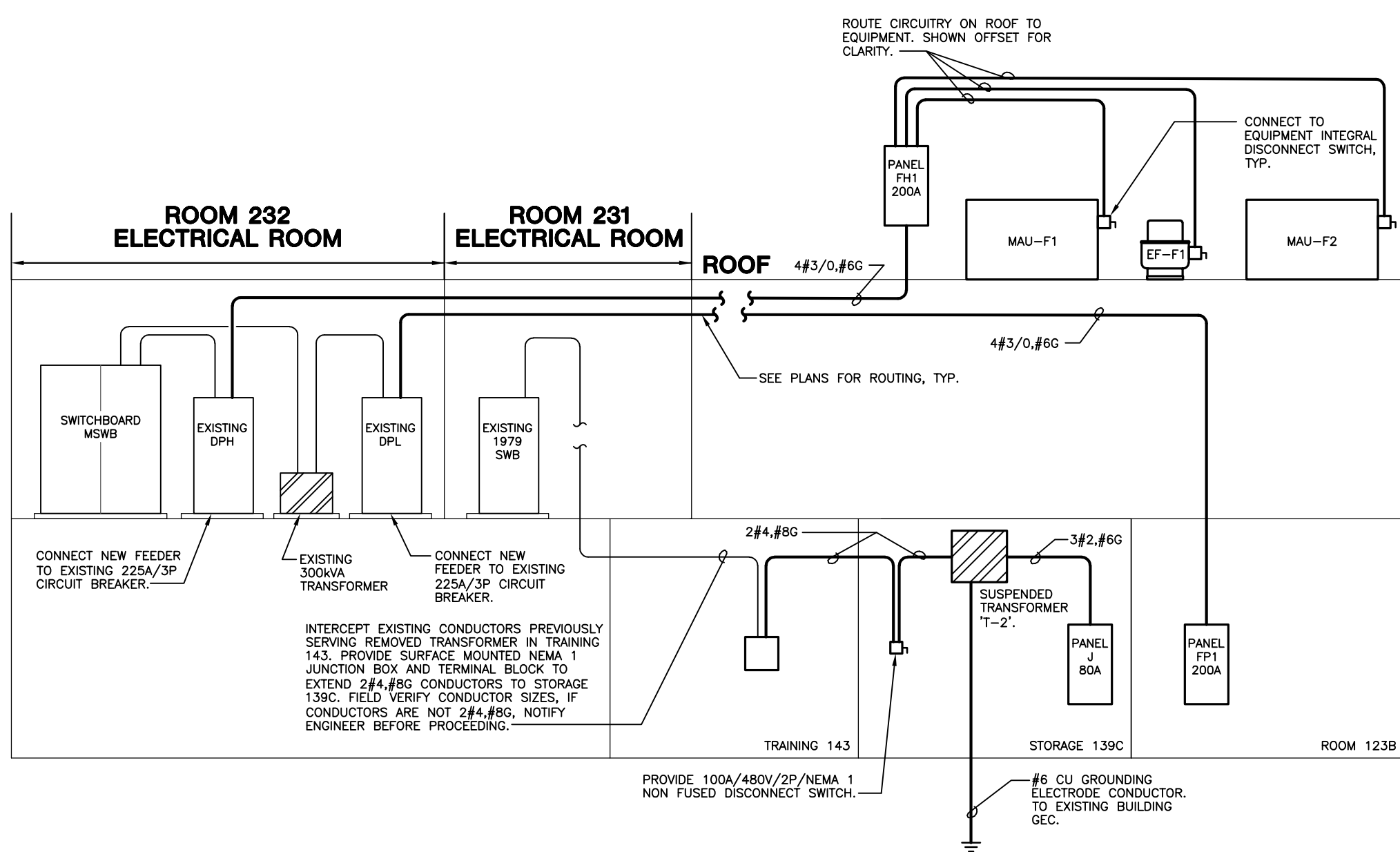
ELECTRICAL EQUIPMENT SCHEDULE				
Mark	KVA	Mounting	Secondary Conductors	GEC
T2	25	Suspended	3#2,#6G	#6

Dry type transformer for indoor installation, U.L. listed, compliant with IEEE, NEMA and ANSI standards, single phase, 60 hertz, 480 volt primary 240/120 volt secondary, (6) 2-1/2% full capacity taps, 150 degree C temperature rise, ventilated enclosure and internal vibration isolation core mounting. Provide NEC compliant signage for transformers served by remote disconnects. Equivalent to Square D EE.

LIGHTING FIXTURE SCHEDULE				
MARK	SIZE	MANUF.	DESCRIPTION	LAMPS
A1	2' x 4'	Williams	Series PT shallow plenum LED lay-in troffer with die-formed 22 gauge cold rolled steel, diffuse ribbed acrylic, highly reflective non-glare matte white polyester powder coat finish, and electrical access from room-side to allow for service and/or cleaning without removing fixture from ceiling grid. Provide fixture with 4,000K lumen package producing 3,800 nominal lumens at 31 watts, 0-10V dimming driver, minimum 82 CRI and rated for 50,000 hours at 70% lumen maintenance.	LEDs 31W
A2	2' x 4'	Williams	Similar to fixture type 'A1' except provide fixture with 4,000K lumen package producing 4,900 nominal lumens at 37 watts, 0-10V dimming driver, minimum 82 CRI and rated for 50,000 hours at 70% lumen maintenance.	LEDs 37W
A3	2' x 4'	Williams	Similar to fixture type 'A1' except provide fixture with 4,000K lumen package producing 6,100 nominal lumens at 49 watts, 0-10V dimming driver, minimum 82 CRI and rated for 50,000 hours at 70% lumen maintenance.	LEDs 49W
B	7-3/8" W x 4-1/2" H x 51-7/8" L	Williams	Series 96 LED fully enclosed and gasketed industrial surface mount fixture with polycarbonate toggle latches, closed-cell polyurethane gasket, 5VA (f1) fiberglass exterior enclosure with aluminum internal housing, frosted and ribbed UV stabilized polycarbonate shielding, and electronic driver prewired for non-dimming applications. Provide fixture with 4,000K lumen package producing 4,700 nominal lumens at 40 watts.	LED 40W
C	6" dia.	Spectrum	Series RDF16LXDT 6" LED shower light with 20 gauge die formed galvanized housing and frame, aluminum heat sink, semi-diffuse finish, UL listed for damp locations, IC rated, and minimum 83 CRI. Provide fixture with 4,000K lumen package producing 1,600 nominal lumens at 11.1 watts.	LEDs 11.1W
D	-	-	NOT USED.	-
E	9-1/16" x 6-5/16" x 4" D	Mule	Series MERU wall mounted architectural, low-profile LED with normal only operation lighting, die-cast aluminum housing and heat sink, scratch resistant polyester powder coat finish in color to be selected by Architect, UV resistant polycarbonate lens, and neoprene seal for weatherproof installation. Provide 4,000K lumen package producing 1,600 lumens in AC operation.	LEDs 15.2W
F1	2' x 2'	Williams	Series PT shallow plenum LED lay-in troffer with die-formed 22 gauge cold rolled steel, diffuse ribbed acrylic, highly reflective non-glare matte white polyester powder coat finish, and electrical access from room-side to allow for service and/or cleaning without removing fixture from ceiling grid. Provide fixture with 4,000K lumen package producing 2,600 nominal lumens at 21 watts, 0-10V dimming driver, minimum 82 CRI and rated for 50,000 hours at 70% lumen maintenance.	LEDs 21W
F2	2' x 2'	Williams	Similar to fixture type 'F1' except provide fixture with 4,000K lumen package producing 4,300 nominal lumens at 35 watts, 0-10V dimming driver, minimum 82 CRI and rated for 50,000 hours at 70% lumen maintenance.	LEDs 35W
G	2-3/4" W x 3-1/4" D x 48" L	Williams	Series 75L lensed LED strip fixture with 22 gauge cold rolled steel housing, all parts painted to a minimum 92% coverage reflectance, and 0.125" thick acrylic frosted lens. Provide all necessary hardware to surface mount or chain hang fixture as required, and 11-gauge white powder coated wireguard where indicated on plans. Provide fixture with 4,000K lumen package producing 3,800 nominal lumens at 41 watts, an electronic driver prewired for non-dimming applications, and rated for 50,000 hours at 70% lumen maintenance.	LEDs 41W
H	12-1/2" W x 2-7/16" D x 48" L	Williams	Series PT shallow LED surface mounted troffer with die-formed 22 gauge cold rolled steel, diffuse ribbed acrylic, highly reflective non-glare matte white polyester powder coat finish, and electrical access from bottom-side to allow for service and/or cleaning without removing fixture. Provide fixture with 4,000K lumen package producing 4,500 nominal lumens at 34 watts, 0-10V dimming driver, minimum 82 CRI and rated for 50,000 hours at 70% lumen maintenance.	LEDs 34W
X	12-3/4" x 8-1/2"	Mule	Series Classic emergency powered exit light with red letters, vandal resistant die-cast aluminum housing, universal chevrons, 100 ft. visibility, all required mounting hardware, one or two faces as indicated on plans, wall or ceiling mount as indicated on plans. Provide circuitry for and connect to unswitched power from lighting circuit serving same area as exit light.	LED

NOTES:

1. All fixtures to be provided for 277 volt AC operation unless noted otherwise.
2. Coordinate mounting heights of all wall mounted fixtures with Architect prior to roughing in.



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REVISIONS:

Project Number: **16036**

Date: **03/16/18**

Project Name: **USD 320 WAMEGO HIGH SCHOOL IMPROVEMENTS**

Project Address: **801 LINCOLN AVENUE WAMEGO, KS 66547**

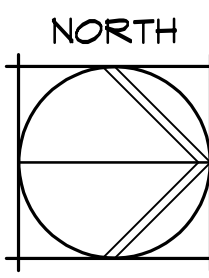
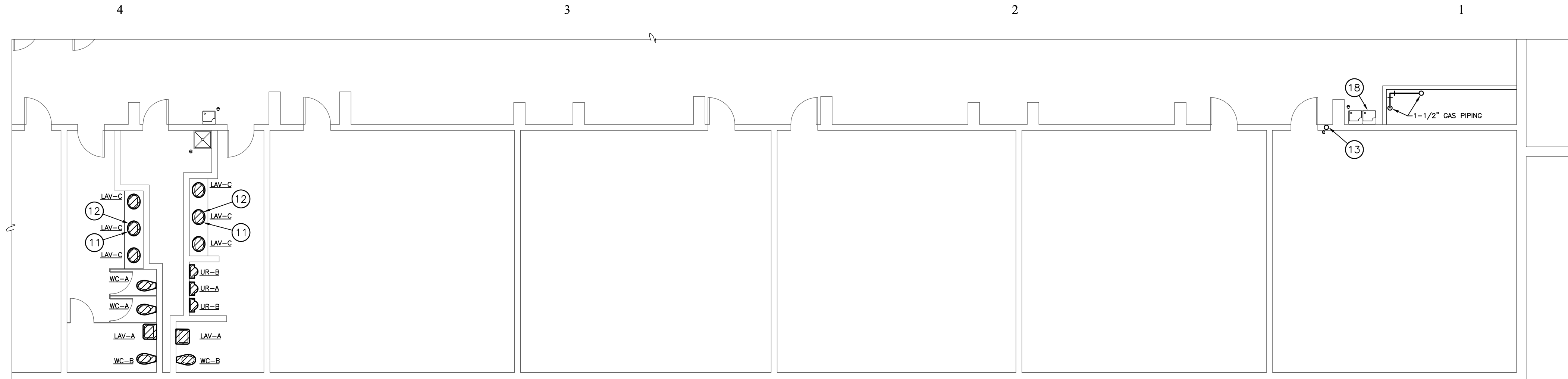
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Sheet: **E104**

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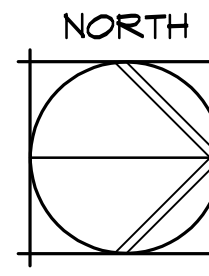
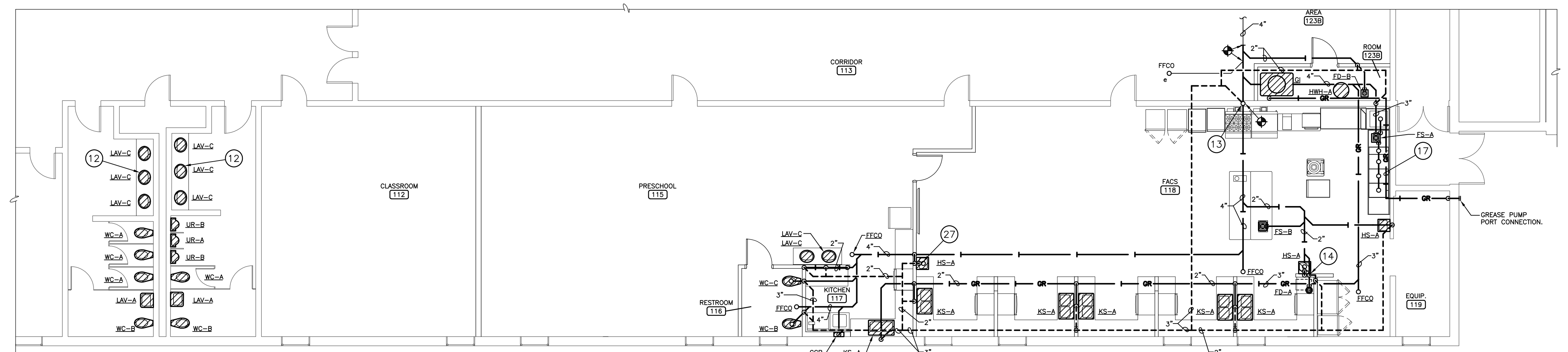
PLUMBING NOTES BY SYMBOL

- 1 1/2" HW AND 1/2" CW DOWN IN WALL, ROUTE CONCEALED IN CASEWORK TO SERVE KS-A 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) KS-A 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) KS-A 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 KS-A 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 DISHWASHER CONNECTION DETAIL B/P103.
- 7 1/2" HW AND 1/2" CW DOWN TO SERVE BACKSPASH MOUNTED SINK FAUCET.
- 8 1/2" HW AND 1/2" CW DOWN TO SERVE HANDSINK HS-A.
- 9 1/2" HW AND 1/2" CW UP TO SERVE HANDSINK HS-A.
- 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, FD-A, AND FS-B.
- 15 3/4" HW AND 3/4" CW DOWN TO SERVE BACKSPASH 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.



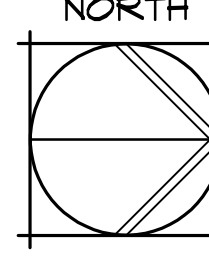
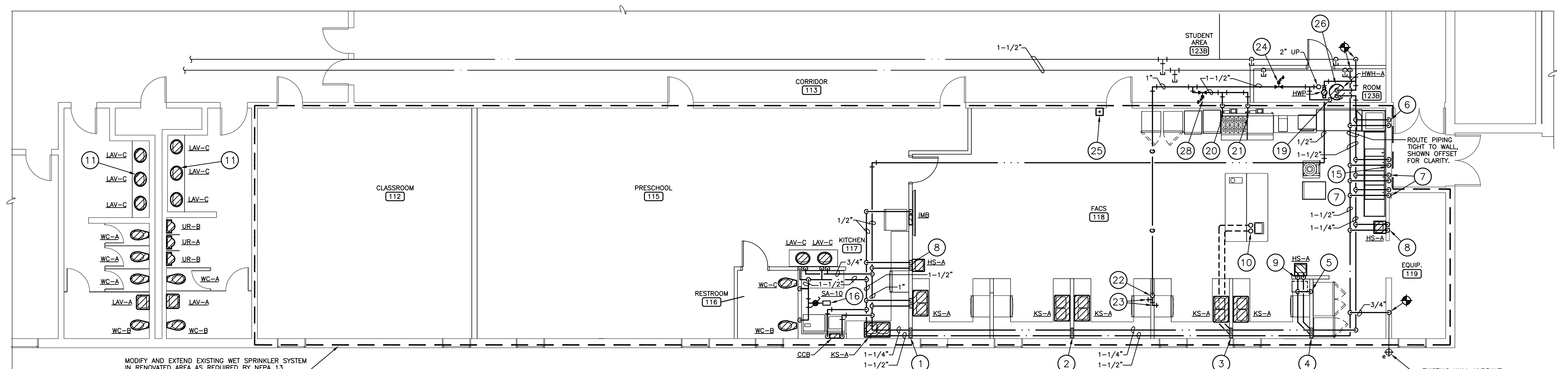
FACS ROOM SECOND FLOOR PLAN - PLUMBING

1/8" = 1'-0"



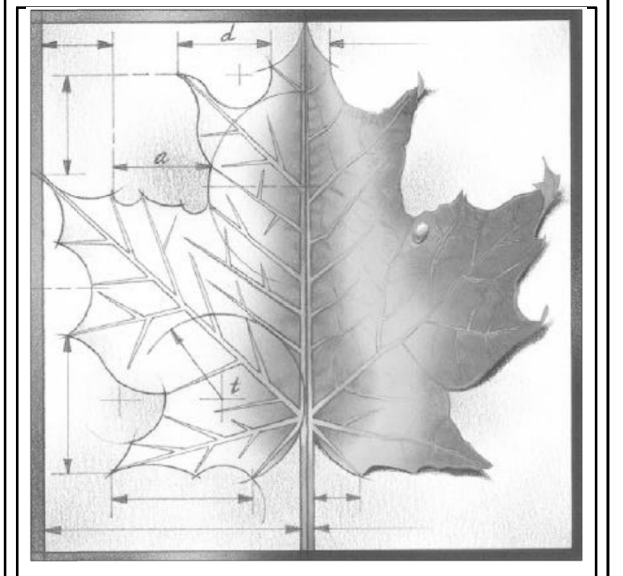
FACS ROOM GROUND FLOOR PLAN - WASTE AND VENT

1/8" = 1'-0"



FACS ROOM GROUND FLOOR PLAN - WATER, GAS AND FIRE PROTECTION

1/8" = 1'-0"



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Sheet Title:
**FACS ROOM
PLUMBING
PLANS**

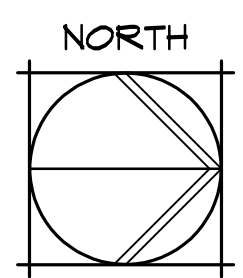
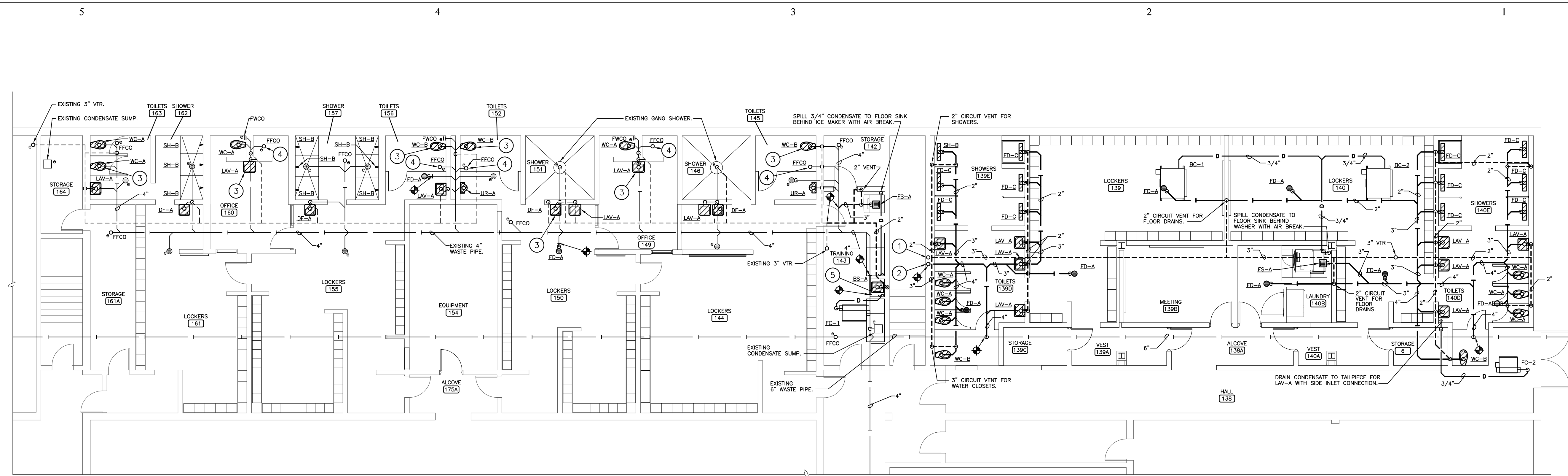
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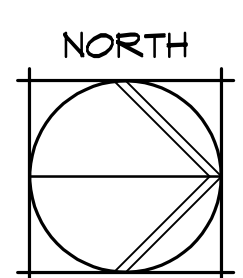
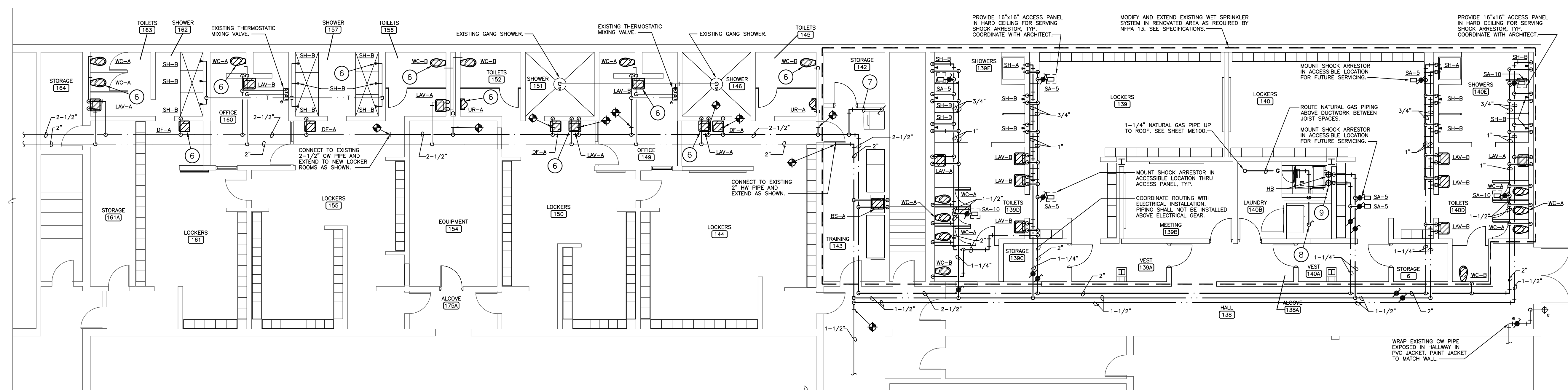
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LOCKER ROOM GROUND FLOOR PLAN - WASTE AND VENT

1/8" = 1'-0"

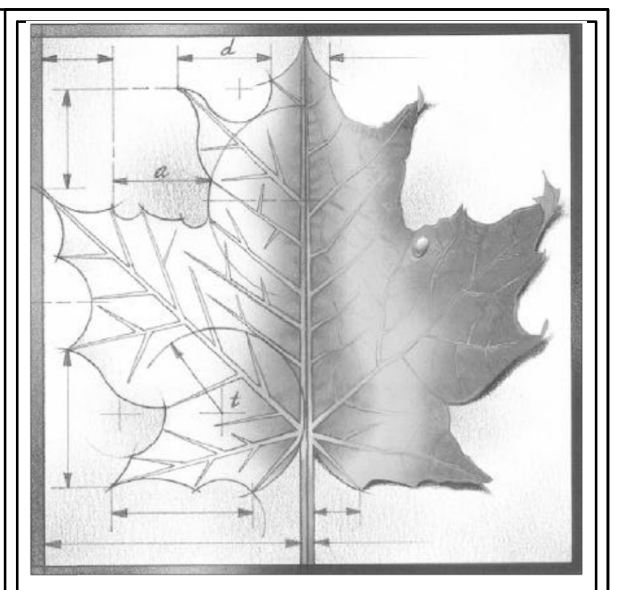


LOCKER ROOM GROUND FLOOR PLAN - WATER AND GAS

1/8" = 1'-0"

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, BS-A, 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.



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LOCKER ROOM PLUMBING PLANS

Sheet:
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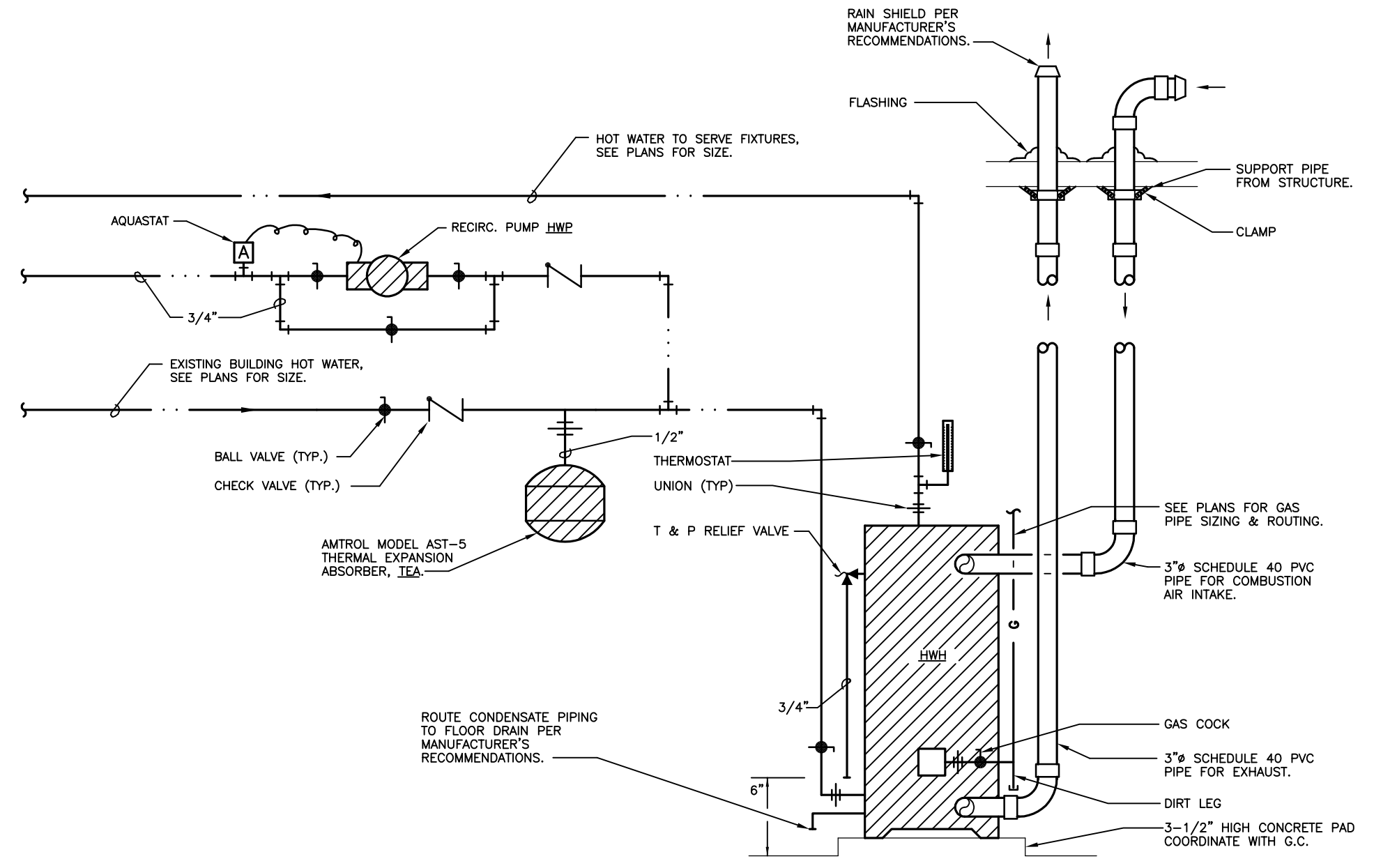
PLUMBING FIXTURE MINIMUM ROUGH-IN SIZE SCHEDULE				
FIXTURE/DESIGNATION	WASTE	VENT	COLD WTR.	HOT WTR.
FLUSH VALVE WATER CLOSET/WC-A,B,C	4"	2"	1"	---
URINAL/UR-A,B	2"	2"	3/4"	---
LAVATORY/LAV-A,B,C	2"	2"	1/2"	1/2"
HANDSINK/HS-A	2"	2"	1/2"	1/2"
BAR SINK/BS-A	2"	2"	1/2"	1/2"
KITCHEN SINK/KS-A	2"	2"	1/2"	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"	---
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"	---	---

PLUMBING EQUIPMENT SCHEDULE

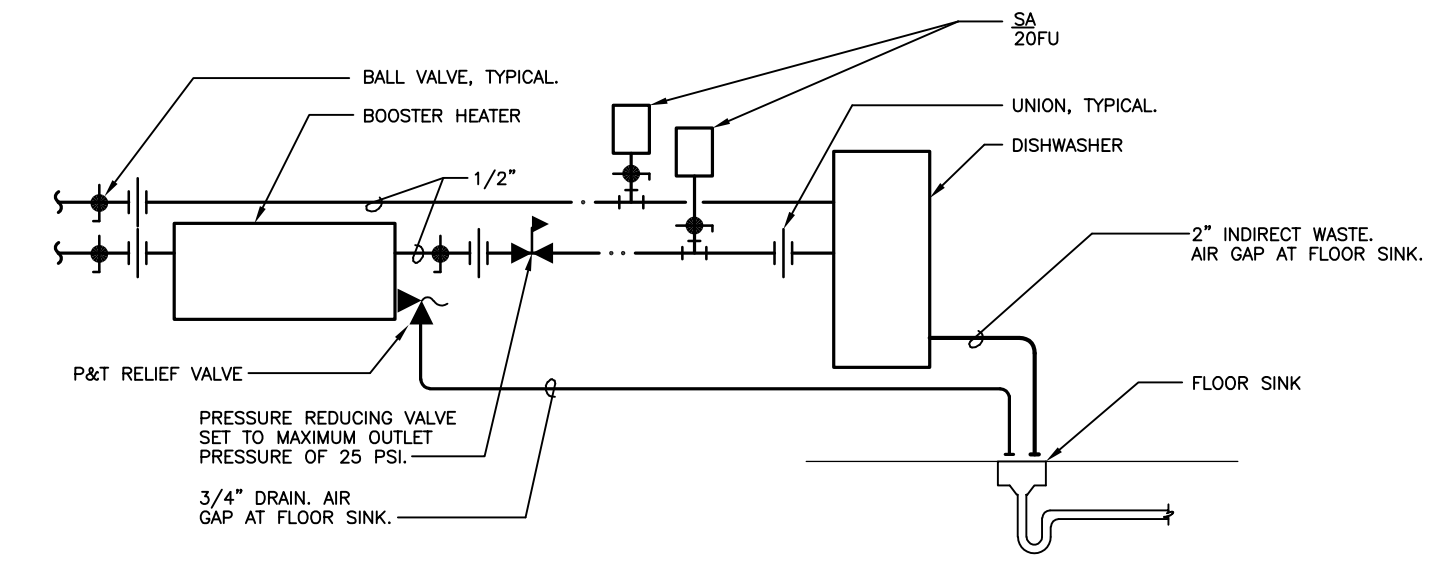
General Notes:

- For fixtures marked (ADA), fixture, trim, mounting dimensions and installation shall meet the requirements of the 2010 Americans With Disabilities Act.
- Coordinate fixture locations with Architectural plans and elevations prior to rough-in.
- All fixtures shall be provided with vandal resistant trim.
- Provide carrier required for complete installation of fixture.

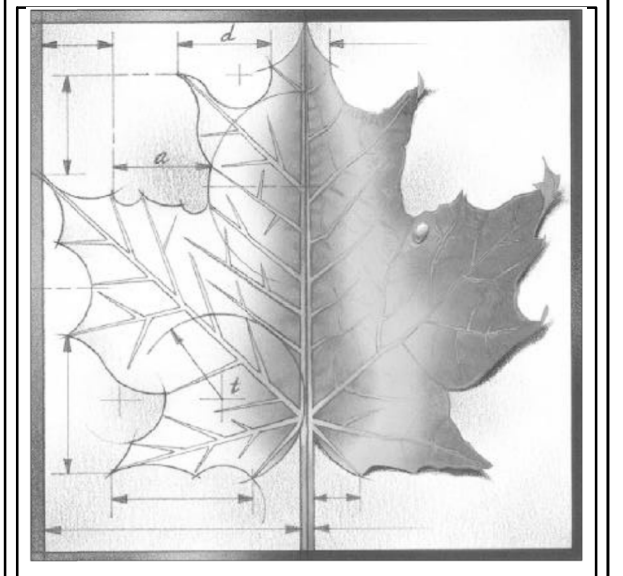
WC-A	Zurn Z5655 vitreous china, floor mounted, elongated bowl, siphon jet flushing action, 1.6 GPF, 1-1/2" top spud toilet, 14" rim height, open front seat less cover, Sloan Regal 111-XL flush valve with vacuum breaker and angle stop. Fixture color: White. NO SUBSTITUTIONS FOR FLUSH VALVE.																
WC-B (ADA)	Zurn Z5665 ADA vitreous china, floor mounted, elongated bowl, siphon jet flushing action, 1.6 GPF, 1-1/2" top spud toilet, 17" rim height, open front seat less cover, Sloan Regal 111-XL flush valve with vacuum breaker, angle stop and ADA compliant handle. Fixture color: White. NO SUBSTITUTIONS FOR FLUSH VALVE.																
WC-C	Zurn Z5675 vitreous china, childrens water closet, floor mounted, round front, siphon jet flushing action, 1.6 GPF, 1-1/2" top spud, 10" rim height, open front seat less cover, Sloan Regal 111-XL flush valve with vacuum breaker and angle stop. Fixture color: White. NO SUBSTITUTIONS FOR FLUSH VALVE.																
UR-A (ADA)	Zurn Z5755-U vitreous china, wall hung, washout flushing action, extended rim, 1.0 GPF, 3/4" top spud, integral trap, wall hanger carrier with feet anchor bolted to floor, Sloan Regal 180-1 XL flush valve with vacuum breaker, ADA compliant handle and angle stop. Fixture color: White. Mount with lip at maximum of 17" AFF. NO SUBSTITUTIONS FOR FLUSH VALVE.																
UR-B	Zurn Z5755-U vitreous china, wall hung, washout flushing action, extended rim, 1.0 GPF, 3/4" top spud, integral trap, wall hanger carrier with feet anchor bolted to floor, Sloan Regal 180-1 XL flush valve with vacuum breaker and angle stop. Fixture color: White. Mount with lip at 24" AFF.																
LAV-A (ADA)	Zurn Z5344 20" x 18" vitreous china front overflow lavatory for concealed arms. Trim with Zurn ZW3870XLT-4P point of use anti-scauld thermostatic mixing valve, Zurn ZB1101-XL-3M 4" centerset faucet with 4" spout, 0.5 gpm flow control, grid drain, indexes hot or cold 2-1/2" metal lever handles, Dearborn supplies with stops and escutcheon plate, Dearborn #760W 17 ga. offset tailpiece and 1-1/4" cast brass P-trap with cleanout plug. Fixture color: White. Insulate water and waste piping below sink with manufactured piping covers consisting of flexible vinyl insulation with white finish and access to piping, equivalent to Handi Lav-Guard manufactured by Truebro Inc. Provide carrier with feet anchor bolted to floor.																
LAV-B	Zurn Z5344 20" x 18" vitreous china front overflow lavatory for concealed arms. Trim with Zurn ZW3870XLT-4P point of use anti-scauld thermostatic mixing valve, Zurn ZB1101-XL-3M 4" centerset faucet with 4" spout, 0.5 gpm flow control, grid drain, indexes hot or cold 2-1/2" metal lever handles, Dearborn supplies with stops and escutcheon plate, Dearborn #760W 17 ga. offset tailpiece and 1-1/4" cast brass P-trap with cleanout plug. Fixture color: white.																
LAV-C (ADA)	Zurn Z5124 self-rimming round vitreous china lavatory, 19" outside diameter, front overflow. Trim with Zurn ZW3870XLT-4P point of use anti-scauld thermostatic mixing valve, Zurn ZB1101-XL-3M 4" centerset faucet with 4" spout, 0.5 gpm flow control, grid drain, indexed single metal handle, Dearborn supplies with stops and escutcheon plate, Dearborn #760W 17 ga. offset tailpiece and 1-1/4" cast brass P-trap with cleanout plug. Fixture color: White. Insulate water and waste piping below sink with manufactured piping covers consisting of flexible vinyl insulation with white finish and access to piping, equivalent to Handi Lav-Guard manufactured by Truebro Inc.																
BS-A	Just SLX-2019-A-OR self-rimming single compartment Type 304 18-8 stainless steel sink, 14" L x 16" W x 10-1/2" D inside, fully sound deadened, holes as required for scheduled trim, with 4B-99 strainer. Trim with Zurn ZB31A1-XL-16F faucet with 8" centers, gooseneck swing spout, 1.0 gpm flow control and indexed hot or cold 2-1/2" metal lever handles, Dearborn supplies with stops and escutcheon plate, and Dearborn 1-1/4" cast brass P-trap with cleanout plug.																
KS-A	Elkoy #CR3322 20 gauge type 302 18-8 nickel bearing stainless steel double compartment self-rimming kitchen sink, each compartment 14" L x 15-3/4" W x 7" D, fully undercoated, 4 hole, LK-99 basket strainer. Trim with Zurn ZB31C4-XL-HS 8" gooseneck with 4" wristblade handles, chrome plated finish, cast brass body, hand spray, Dearborn supplies with stops and escutcheon plate, Dearborn 1-1/2" cast brass P-trap with cleanout plug.																
HS-A	Handsink and associated trim provided by Kitchen Consultant. Provide Zurn ZW3870XLT-4P point of use anti-scauld thermostatic mixing valve, Dearborn supplies with stops and escutcheon plate, Dearborn #760 17 ga. offset tailpiece and 1-1/4" cast brass P-trap with cleanout plug.																
SH-A (ADA)	Provide trim for handicapped accessible shower: Zurn Z7301-SS-MT-DV2P-HW-VB anti-scauld pressure balancing mixing valve with ADA compliant handle, adjustable stop screw to limit handle turn, and integral service stops, Z7000-12-1.75 institutional fixed spray shower head with integral 1.75 GPM flow control, wall and hand spray unit with 60" of flexible rubber line metal hose with in-line vacuum breaker, wall spout, 24" slide bar with bracket, and diverter valve with ADA compliant metal lever handle. Piping shall be concealed in wall. See Handicapped Accessible Shower Detail for mounting heights.																
SH-B	Trim for shower: Zurn Z7301-SS-MT-12 pressure balancing valve with integral stops, metal lever handle, institutional fixed spray shower head with integral 2.5 GPM flow control. Piping shall be concealed in wall. Install valve at 48" AFF, head at 72" AFF.																
DF-A (ADA)	Haws 1201 vitreous china wall mounted drinking fountain with polished chrome-plated brass bubbler head and strainer, 7" integral back splash, push-button operation, front-accessible cartridge and flow adjustment, and integral P-trap.																
CCB	Guy Gray T200 clotheswasher connection box, recessed housing with 1/2" valved hot and cold water top or bottom supply connections as required, and knockout for 2" drain connection. White powder coat steel construction.																
IMB	Guy Gray BMB75AB icemaker connection box, 20 gauge galvanized steel faceplate, 20 gauge galvanized steel recessed housing with 1/2" lead free valved cold water supply connection.																
RH	Woodford model RHY2-MS freezeless roof hydrant, painted cast iron head assembly, integral cast brass backflow preventer, galvanized pipe casing, one-piece plunger, 1/8" drain hole. Provide with cast iron hydrant support, deck flange, well seal, and EPDM boot cover. Hydrant shall be serviceable through the top of the unit without removing the hydrant.																
FD-A	Floor drain for finished areas - Wade 1100-1 floor drain with clamping collar, adjustable, vandal proof, 6" satin nickel bronze top. Provide with ProSet Systems trap guard T25630-F.																
FD-B	Floor drain for mechanical rooms - Wade 2350-27 cast iron with bottom outlet, 8" square top, square loose set grate, and removable sediment bucket. Provide with ProSet Systems trap guard T25630-F.																
FD-C	Floor drain for showers - Zurn Z5880-28 4" x 28" stainless steel shower drain with bottom outlet, adjustable top with Type 304 stainless steel slotted heel-proof grate. Fabricated stainless steel body with V shaped channel, 2" No-Hub center drain, secured leveling frame. Provide with ProSet Systems trap guard T25630-F.																
GI	Schier GB-75 grease interceptor, rotationally molded polyethylene separator, 75 GPM intermittent flow rate, 4" tapped inlet and outlet, 2" tapped internal vent connection, 616 lbs of grease capacity, 125 gallons of liquid capacity, integral flow control device on inlet with inlet diffuser, outlet diffuser, composite cover with 16,000 lb load rating. Provide with pumpout part kit PP2.																
FWCO	Wade 8560-E cleanout tee with brass threaded plug and 8480-R round stainless steel coverplate secured to plug by countersunk screw.																
FFCO	Finished floor cleanout, Wade 6000-Z-1 cast iron finished floor cleanout with spigot outlet, threaded adjustable housing, flanged ferrule with bronze threaded plug and vandal proof round secured nickel bronze scoriated top.																
SA	Wade Shock Arrestors, stainless steel construction with welded nested bellows, precharged with nitrogen, 125 psi maximum operating pressure, 300 degree F maximum temperature. <table border="1"> <thead> <tr> <th>Fixture Units</th> <th>Designation</th> <th>Wade Catalog No.</th> <th>PDI Rating</th> </tr> </thead> <tbody> <tr> <td>1-11</td> <td>SA-5</td> <td>5</td> <td>A</td> </tr> <tr> <td>12-32</td> <td>SA-10</td> <td>10</td> <td>B</td> </tr> <tr> <td>33-60</td> <td>SA-20</td> <td>20</td> <td>C</td> </tr> </tbody> </table>	Fixture Units	Designation	Wade Catalog No.	PDI Rating	1-11	SA-5	5	A	12-32	SA-10	10	B	33-60	SA-20	20	C
Fixture Units	Designation	Wade Catalog No.	PDI Rating														
1-11	SA-5	5	A														
12-32	SA-10	10	B														
33-60	SA-20	20	C														
FS-A	3" Floor sink - Wade 9140 12" square, 8" deep, cast iron with smooth porcelain acid resisting interior, double drainage flange, bottom outlet, acid resisting nickel brass grate with openings as required for indirect drains, and sediment bucket. Omit grate where not required. Use acid resistant porcelain coated cast iron where not subjected to foot traffic. Provide with ProSet Systems trap guard T25630-F.																
FS-B	2" Floor sink - Wade 9110 8" square, 6" deep, cast iron with smooth porcelain acid resisting interior, double drainage flange, bottom outlet, acid resisting nickel brass grate with openings as required for indirect drains, and sediment bucket. Omit grate where not required. Use acid resistant porcelain coated cast iron where not subjected to foot traffic. Provide with ProSet Systems trap guard T25630-F.																
HWH-A	State SPC-50-130-NE gas fired high efficiency condensing hot water heater, 130 MBH input, 50 gallon storage, 165 gallon per hour recovery at 90 degree F rise.																
HB	Woodford model 26, hose bibb, cast bronze, with rough chrome finish, wheel handle, 3/4" inlet and hose thread outlet. Hose bibb shall be furnished complete with no spray back integral vacuum breaker.																
TEA	Thermal Expansion Absorber, Amtrul ST-5 precharged hydropneumatic steel expansion tank with internal butyl diaphragm, 2.0 gallons total volume, 0.9 gal. minimum expansion volume, 150 psig maximum working pressure.																
HWP	Hot water circulation pump, Taco #005-BF, in-line, 4GPM @ 9 ft. head, 1/35 HP, bronze body, 3250 RPM, 120 volt, 1 phase, 3/4" flanges. Provide bronze companion flanges and aquastat control.																



A WATER HEATER DETAIL
NO SCALE



B DISHWASHER CONNECTION DETAIL
NO SCALE



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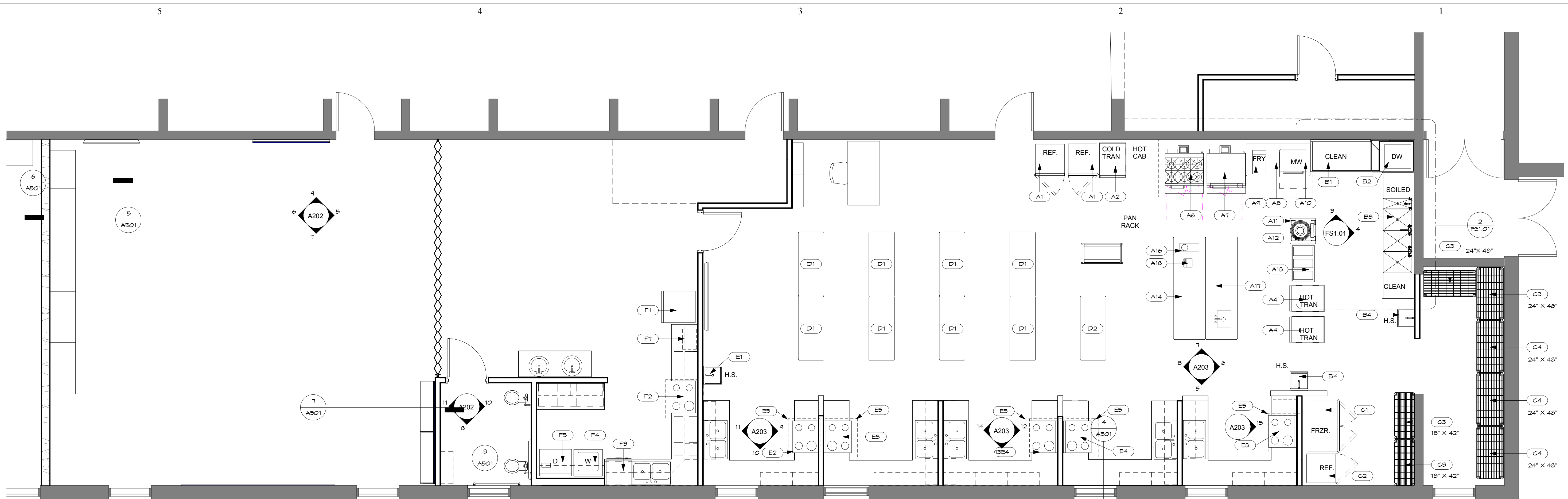
Project Number: **16036**
Date: **03/16/18**
Project Name: **USD 320 WAMEGO HIGH SCHOOL IMPROVEMENTS**
Project Address: **801 LINCOLN AVENUE WAMEGO, KS 66547**

Sheet Title: **PLUMBING DETAILS & SCHEDULES**

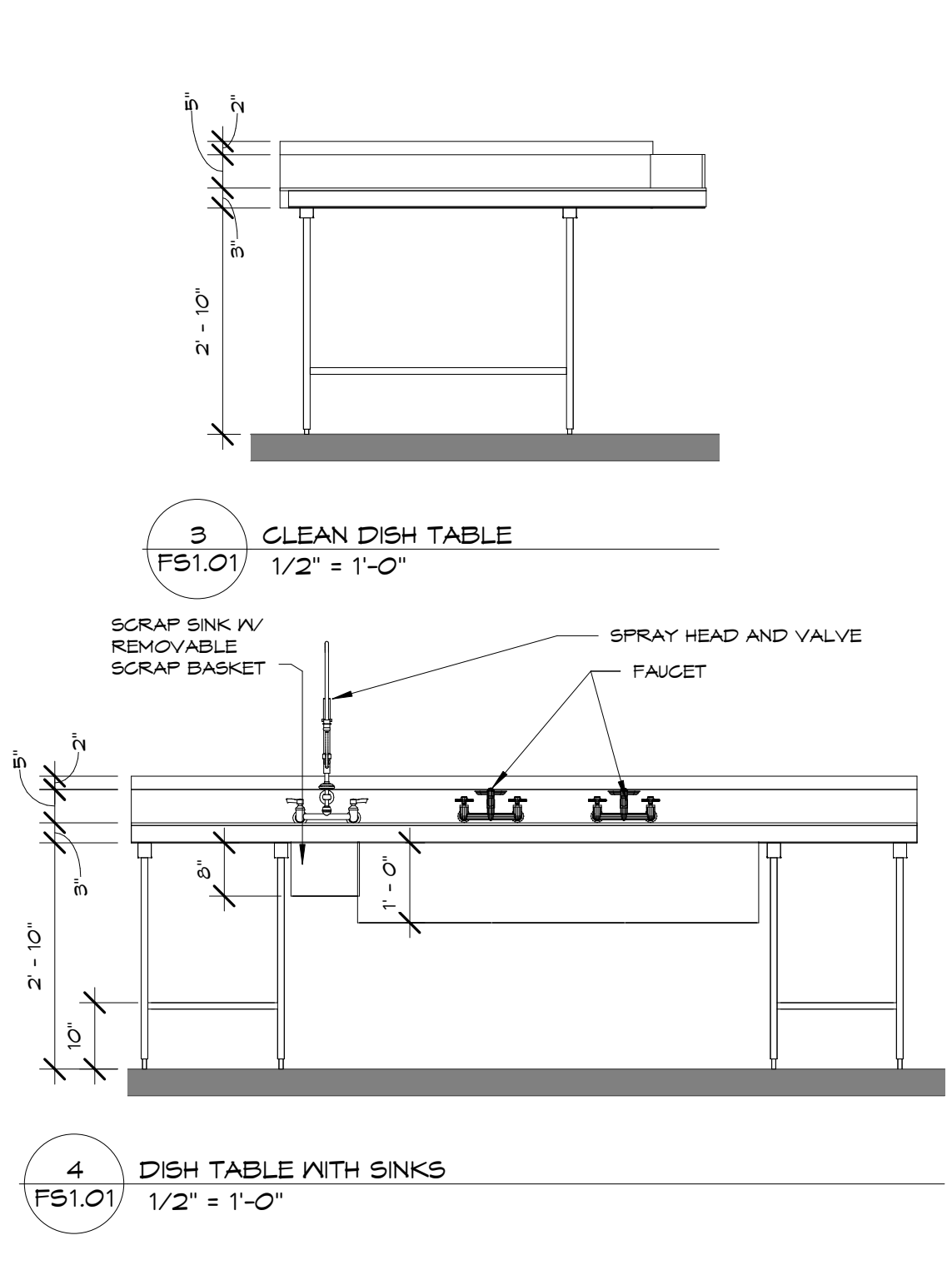
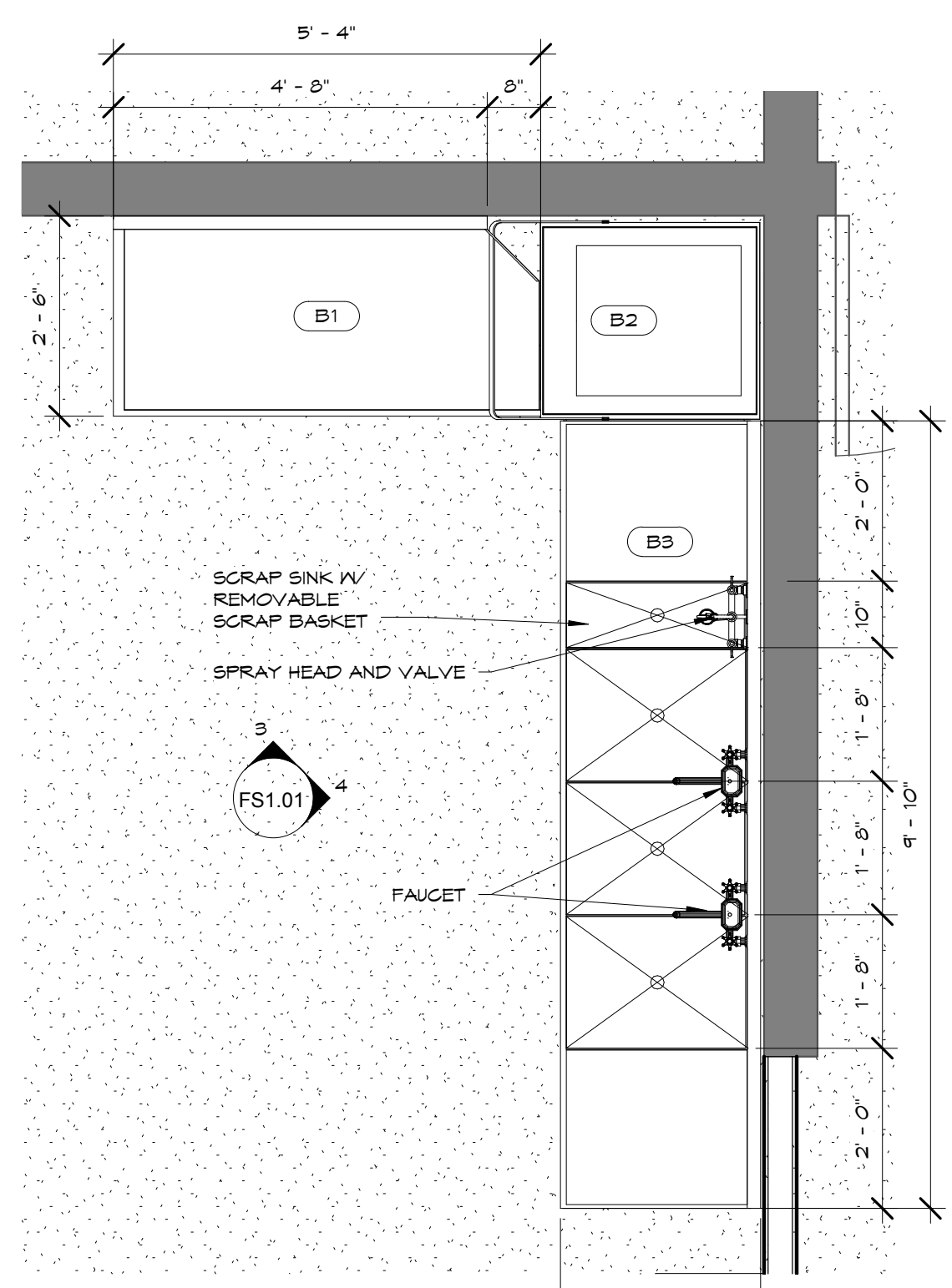
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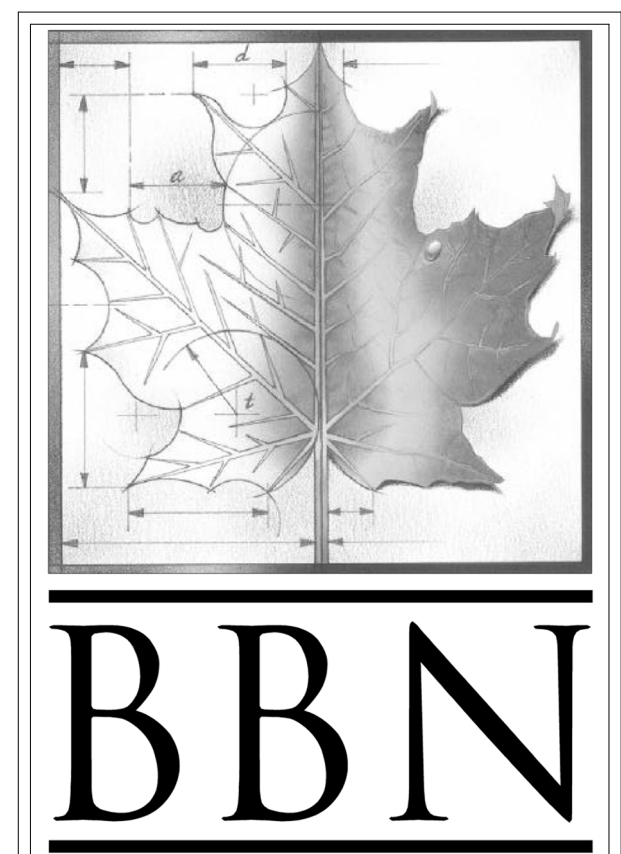


1 LEVEL 1 - FAC'S EQUIPMENT PLAN
1/4" = 1'-0"



EQUIPMENT LIST

ITEM	QTY	DESCRIPTION	MANUFACTURER	MODEL	REMARKS
A1	2	REACH IN REFRIGERATOR	TRUE	T - 23 HC	5 ADDITIONAL SHELVES
A2	2	HALF SIZE TRANSPORT CABINET	CRESGOR	304 - 108G	KOLD KEEPERS
A3	1	HOLDING AND PROOFING CABINET	CRESGOR	H135 - WTA - 11	FULL VIEW WINDOW DOOR
A4	1	HALF SIZE TRANSPORT CABINET	CRESGOR	H394 - UA - 0G	
A5	1	HOOD, TYPE 1 WITH FIRE SUPPRESSION	OTHER TRADES	12' - 0" X 4' - 6" CAPTURE AREA	
A6	1	RANGE / OVEN	SOUTHBEND	TV65 / 125G - P36N - BBB	
A7	1	GRIDDLE / OVEN	SOUTHBEND	TV65 / 125G - P36N - GGG	
A8	1	WORK TABLE	ADVANCE TABCO	TMS - 305	SQUARE EDGE, 30" X 60" X 28" H.
A9	1	FRYER - COUNTER TOP	NELLS	LLF - 14	
A10	1	MICROWAVE STEAMER	PANASONIC	NE - 2180	
A11	1	MIXER TABLE	ADVANCE TABCO	MX - 55 - 242 24 X 24	
A12	1	20 QT BENCH MIXER	GLOBE	SP - 20	
A13	1	INGREDIENT BINS	CHANNEL MANUFACTURING	123P	
A14	1	WORK TABLE	CUSTOM	30" D X 96" L X 36" H	
A15	1	BUN PAN RACK	CHANNEL MANUFACTURING	UTR - 12	
A16	1	FOOD PROCESSOR	ROBOT COUPE USA	R502	
A17	1	WORK TABLE	CUSTOM	30" D X 96" L X 36" H	IV INTEGRAL 20"X20"X12" SINK AND FAUCET
A18	1	PORTION CONTROL SCALE	DETECTO	PS-7	
B1	1	DISH TABLE - CLEAN	CUSTOM		
B2	1	WARE WASHER	HOBART US FOOD SERVICE	AM 15 VLT	
B3	1	DISH TABLE - WITH SCRAP SINK AND 3 COMPARTMENT SINK	CUSTOM		
B4	2	HAND SINK	ADVANCE TABCO		
C1	1	SWING DOOR FREEZER	TRUE	T543F	6 ADDITIONAL SHELVES
C2	1	REACH-IN REFRIGERATOR	TRUE	T - 23HC	5 ADDITIONAL SHELVES
C3	2	SHELVING; CHROME WIRE	AMCO	18" X 42"	14" H. STARTER
C4	3	SECURITY CASE SHELVING	CROWN BRANDS	10004	
D1	8	WORK TABLE	ADVANCE TABCO	TMS - 245 TA - 22	SQUARE EDGE, 2 COAT HOOKS, 36" H.
D2	1	WORK TABLE	ADVANCE TABCO	TMS - 245 TA - 22	SQUARE EDGE, 2 COAT HOOKS, 34" H.
E1	1	HAND SINK	ADVANCE TABCO	T - PS - 60	
E2	1	ELECTRIC RESIDENTIAL RANGE / OVEN W/ CERAMIC TOP	WHIRLPOOL CORPORATION	WEE510S0FS	
E3	2	ELECTRIC RESIDENTIAL RANGE / OVEN W/ COIL BURNERS	WHIRLPOOL CORPORATION	WEG310S0FS	
E4	2	GAS RESIDENTIAL RANGE / OVEN	WHIRLPOOL CORPORATION	WFG515S0ES	
E5	5	HOOD	OTHER TRADES	3' - 0" X 2' - 6" CAPTURE AREA	
E6	1	ICE MAKER, UNDER-COUNTER TYPE	SCOTSMAN ICE SYSTEMS	SCGFS0MA-15U-KDPS-KKFF-KATB	S.S. DOOR FRONT KIT ANTI-TIP BRACKET AND KICK PLATE
F1	1	REFRIGERATOR	WHIRLPOOL CORPORATION	WRF5355KHZ	
F2	1	GAS RESIDENTIAL RANGE WITH DOUBLE OVEN	WHIRLPOOL CORPORATION	WEG749S0FS	
F3	1	DISHWASHER	WHIRLPOOL CORPORATION	WDF5505AF5	
F4	1	CLOTHES WASHER	WHIRLPOOL CORPORATION	WFW42HEFG	
F5	1	CLOTHES DRYER	WHIRLPOOL CORPORATION	WED42HEFG	
F6	1	HOOD	OTHER TRADES	3' - 0" X 2' - 6" CAPTURE AREA	
F7	1	MICROWAVE	WHIRLPOOL CORPORATION	WMC30516HZ	



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REV	DESC	DATE

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Project Number: **16036**
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Project Name:
USD 320 WAMEGO HIGH SCHOOL IMPROVEMENTS
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Sheet Title:
**FACS
EQUIPMENT
PLAN**

Sheet:
FS1.01
Of: