

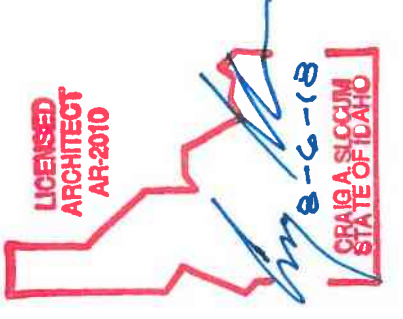
1 MAIN FLOOR DEMOLITION PLAN
SCALE 3/32" = 1'-0"

LEGEND:

	EXISTING CONCRETE WALL
	EXISTING CMU WALL
	EXISTING FRAME WALL
	EXISTING BUILDING ELEMENT TO BE REMOVED

- # SHEET NOTES:**
- REMOVE EXISTING WINDOW AND ALL ASSOCIATED ITEMS. PREP OPENING TO RECEIVE NEW WINDOW.
 - REMOVE EXISTING DOOR, HARDWARE AND FRAME. PREP OPENING TO RECEIVE NEW DOOR.
 - REMOVE EXISTING WINDOW AND WALL FRAMING WITHIN ORIGINAL OPENING. PREP OPENING TO RECEIVE NEW WINDOW.
 - REMOVE EXISTING WINDOW AND AWNING (WHERE EXISTS) ABOVE. PREP OPENING TO RECEIVE NEW OPENING.
 - REMOVE EXISTING DOOR AND HARDWARE.
 - REMOVE EXISTING WALL.
 - REMOVE EXISTING BREAK ROOM AND ALL ASSOCIATED ITEMS.
 - REMOVE EXISTING OFFICE AND ALL ASSOCIATED ITEMS.
 - REMOVE EXISTING SHOP FOREMAN OFFICE AND ALL ASSOCIATED ITEMS, INCLUDING CONC. WALLS, CONC. FLOOR AND CONC. STEPS.
 - REMOVE EXISTING PLASTER CEILING WHERE NEW MECHANICAL EQUIPMENT IS SCHEDULED. COORDINATE EXACT LOCATION AND EXTENT WITH MECHANICAL. SEE STRUCTURAL FOR ANY STRUCTURAL DEMOLITION.
 - REMOVE EXISTING SUSPENDED TILE CEILING IN EXISTING OFFICE AND ALL ASSOCIATED ITEMS.
 - REMOVE ALL EXISTING FRAME WALL, DOORS, SECOND FLOOR FRAMING AND STAIRS, AND ALL ASSOCIATED ITEMS.
 - SAWCUT OPENING IN EXISTING CONCRETE OR CMU WALL FOR NEW HVAC DUCTWORK. COORDINATE EXACT OPENING SIZE AND LOCATION WITH MECHANICAL. SEE STRUCTURAL FOR ADDITIONAL INFORMATION.
 - SAWCUT AND REMOVE EXISTING CONCRETE OR CMU WALL TO EXTENT REQUIRED FOR INSTALLATION OF NEW DOOR, RE: A21, A51 AND A52.
 - SAWCUT AND REMOVE EXISTING ASPHALT PAVING FOR CONSTRUCTION OF NEW CONCRETE LANDINGS.
 - REMOVE EXISTING CONCRETE STAIR, METAL RAILING AND ALL RELATED ITEMS.
 - REMOVE EXISTING CMU WALLS AND ALL RELATED ITEMS TO EXTENT SHOWN. SAWCUT EDGES AT EXISTING CMU TO REMAIN.
 - REMOVE EXISTING DOOR AND FRAME. SAVE FOR REUSE.

- GENERAL NOTES:**
- MAINTAIN THE INTEGRITY OF ALL REMAINING BUILDING SYSTEMS AND RATINGS. REPAIR ANY DAMAGE DONE TO SURROUNDING AREAS DURING DEMOLITION.
 - PATCH AND REPAIR ANY DAMAGE OR PENETRATIONS AT ALL ELEMENTS TO REMAIN (INCLUDING BUT NOT LIMITED TO WALLS, CEILINGS, FLOORS, ETC.) CAUSED BY DEMOLITION ACTIVITIES OR REMOVAL OF ELECTRICAL, MECHANICAL, AND ARCHITECTURAL ELEMENTS, AND EQUIPMENT. REPLACE ITEMS NOT REPAIRABLE TO ORIGINAL STATE. EXISTING FINISH MATERIALS, INCLUDING CEILINGS, TRIM, ETC. SHALL BE PROTECTED AND RETAINED UNLESS OTHERWISE NOTED.
 - EXISTING EQUIPMENT, WALLS, CEILINGS, ETC., ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, FINISHES, AND LOCATIONS.
 - CLEAN CONSTRUCTION DEBRIS AND DUST DAILY BEYOND CONSTRUCTION LIMITS.
 - AT ALL LOCATIONS WHERE A WALL TO BE REMOVED INTERSECTS A WALL TO REMAIN, PATCH AND REPAIR WALL TO REMAIN. ALIGN FINISH FACE OF PATCH WITH ADJACENT FINISH FACE.
 - COORDINATE ALL DEMOLITION WITH FLOOR PLAN. WHERE NEW WORK IS INDICATED, SUCH WORK SHALL INCLUDE ALL REQUIRED DEMOLITION OR REMOVAL OF EXISTING FINISHES, SYSTEMS, AND ALL RELATED ITEMS FOR THAT WORK.
 - FIELD VERIFY ANY EXISTING PIPING LOCATIONS TO DETERMINE EXTENT OF ANY TRENCHING THAT MAY BE REQUIRED FOR MODIFICATIONS. FOR NEW PATCHES, DOWEL A 1/2" LONG #3 BAR AT 48" O.C. (6" MIN. EMBEDMENT) INTO THE EXISTING SLAB TO TIE THE NEW SLAB WITH THE EXISTING. A MINIMUM OF (2) DOWELS ARE REQUIRED FOR SMALLER PATCHES.
 - UPON COMPLETION OF DEMOLITION THOROUGHLY CLEAN ALL SURFACES INDICATED TO REMAIN OF DUST, DIRT, AND DEBRIS IN PREPARATION FOR NEW CONSTRUCTION.
 - CONTRACTOR TO COORDINATE WITH OWNER PRIOR TO COMMENCING WITH WORK TO CONFIRM ANY ITEMS TO BE SALVAGED AND RETAINED BY OWNER.
 - THIS PLAN SHOWS GENERAL DEMOLITION WORK TO BE PERFORMED AND DOES NOT RELIEVE THE CONTRACTOR FROM OTHER DEMOLITION WORK REQUIRED TO PRODUCE THE BUILDING MODIFICATIONS SHOWN ON THE REMAINING CONTRACT DOCUMENTS:
 - FOR DEMOLITION CUTTING AND REMOVAL TO EXISTING BUILDING CONCRETE, RE: A20 SLAB PLAN.
 - FOR DEMOLITION WORK TO EXISTING INTERIOR WALLS, RE: A21 FLOOR PLAN AND A51 INTERIOR ELEVATIONS.
 - FOR DEMOLITION WORK AS A RESULT OF ROOF MODIFICATIONS, RE: A23 ROOF PLAN.
 - FOR CEILING FINISH REMOVAL AND REPLACEMENT AND SUSPENDED WALL MODIFICATIONS, RE: A31 REFLECTED CEILING PLAN.
 - FOR DEMOLITION WORK AS A RESULT OF PLUMBING, HVAC, REFRIGERATION AND ELECTRICAL MODIFICATIONS, RE: MECHANICAL, REFRIGERATION AND ELECTRICAL SHEETS.
 - CONTRACTOR SALVAGE ITEMS SHALL BE DISPOSED OF PROPERLY OFF SITE AND IN AN EXPEDITIOUS MANNER.



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GARDEN CITY, ID
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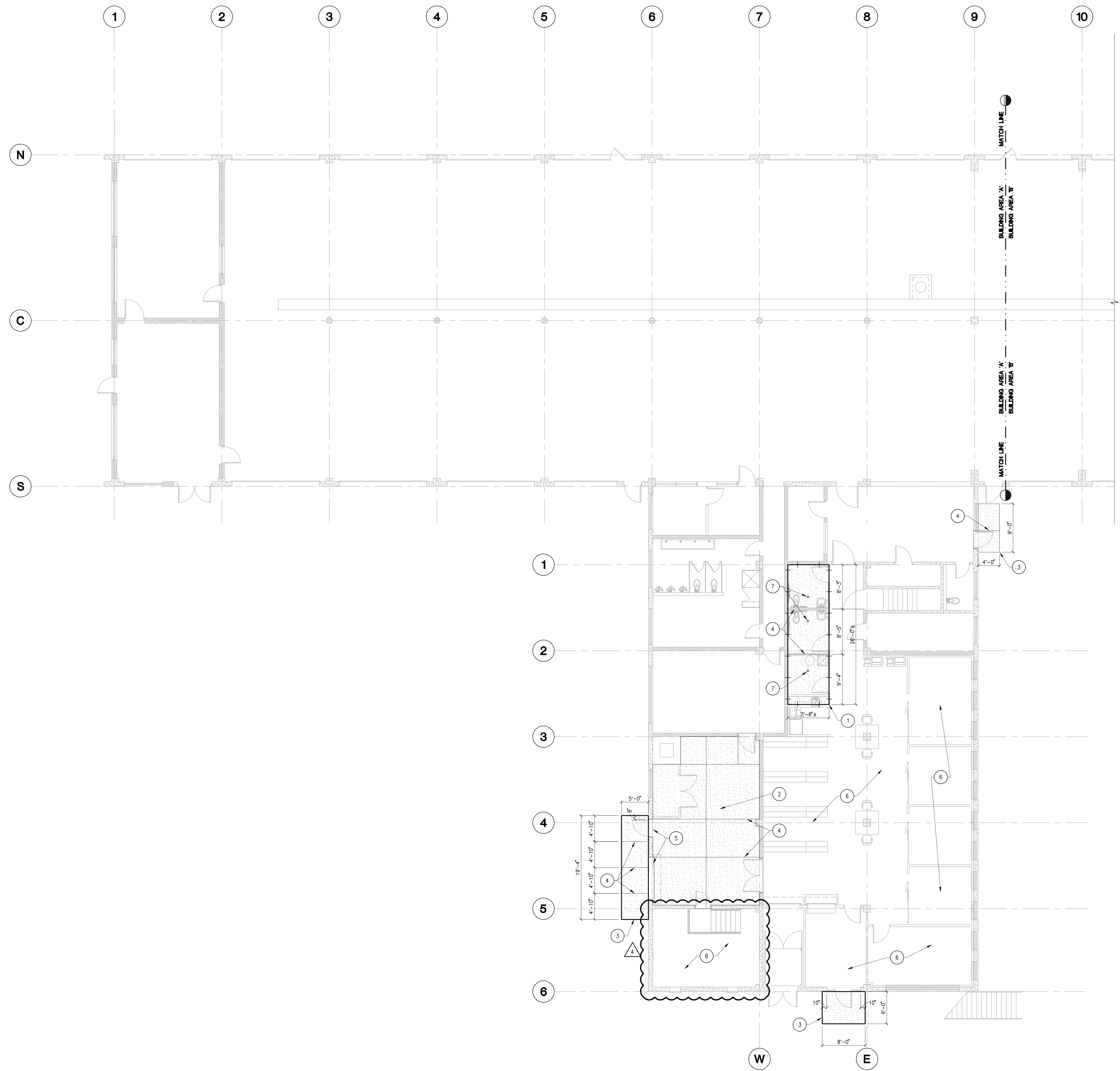
PROJECT	DATE
18059.00	5-2-18
DRAWN	CHECKED
LGB	CAS

REVISED	ADDENDUM NO. ONE
1	05-15-18
4	ADDENDUM NO. FIVE
4	06-06-18
5	CCD 001
5	08-06-18

SHEET TITLE
MAIN FLOOR DEMOLITION PLAN

SHEET
A10

ORIGINAL SHEET SIZE
30' x 42'



1 MAIN FLOOR SLAB PLAN - AREA 'A'
SCALE 1/8" = 1'-0"

LEGEND:

AREA OF CONCRETE REMOVAL AND REPLACEMENT, RE: GENERAL NOTES FOR DOWEL PLACEMENT.

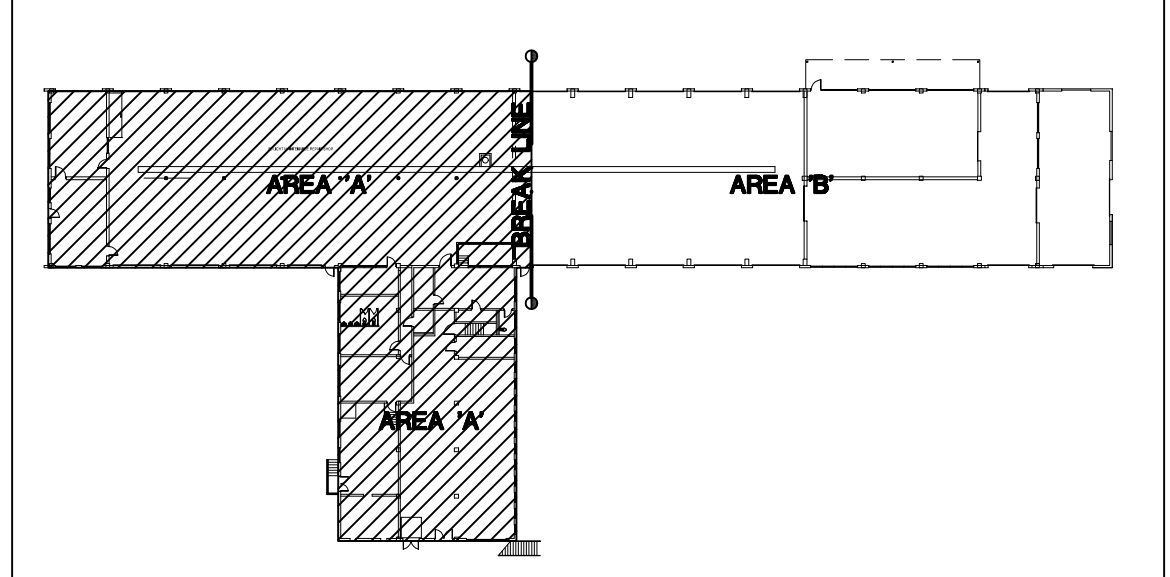
GENERAL NOTES:

- A. DO NOT WET SUBGRADE PRIOR TO POURING SLABS.
- B. SAW CUT ALL CONCRETE FOR CLEAN STRAIGHT LINES.
- C. NEW SLABS SHOWN WITHIN THE EXISTING BUILDING AREA INDICATES EXISTING SLABS TO BE REMOVED.
- D. ALL NEW CONCRETE SLAB WORK WITHIN EXISTING BUILDING AREA SHALL BE FLUSH WITH ADJACENT EXISTING CONCRETE SLABS UNLESS OTHERWISE NOTED ON PLANS.
- E. DOWEL AND EPOXY A 1/2" LONG #3 BAR AT 48" O.C. (6" MIN. EMBEDMENT) INTO EXISTING SLAB TO THE NEW SLAB INTO EXISTING. A MINIMUM OF (2) DOWELS ARE REQUIRED FOR SMALLER PATCHES (DOWELS ARE REQUIRED AT ALL NEW SLAB WORK WITH THE EXCEPTION OF ISOLATION JOINTS).
- F. INSTALL 1/2" PRE-FORMED ISOLATION JOINT FILLER WHERE SLABS ABUT VERTICAL WALLS.

SHEET NOTES:

- 1. NEW CONCRETE SLAB OVER VAPOR RETARDER FOR PLUMBING AND ELECTRICAL MODIFICATIONS, RE: PLUMBING AND ELECTRICAL SHEETS. MATCH EXISTING ADJACENT THICKNESS & REINFORCEMENT.
- 2. NEW INTERIOR CONCRETE SLAB, RE: STRUCT.
- 3. NEW EXTERIOR CONCRETE SLAB, RE: STRUCT.
- 4. CONTROL JOINT, RE: A71-18, TYP.
- 5. LINE OF FOUNDATION BELOW.
- 6. EXISTING CONCRETE SLAB ON GRADE.
- 7. FLOOR DRAIN, RE: PLUMBING.

BUILDING KEY PLAN



ORIGINAL DOCUMENT DESIGNED BY: CRAIG A. SLOCUM, ARCHITECT
ARCHITECT ON FILE WITH THE STATE OF IDAHO
ORIGINAL DATE: 05-15-18
CRAIG A. SLOCUM, ARCHITECT
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GARDEN CITY, ID**



**FOR CONSTRUCTION
6/25/18**

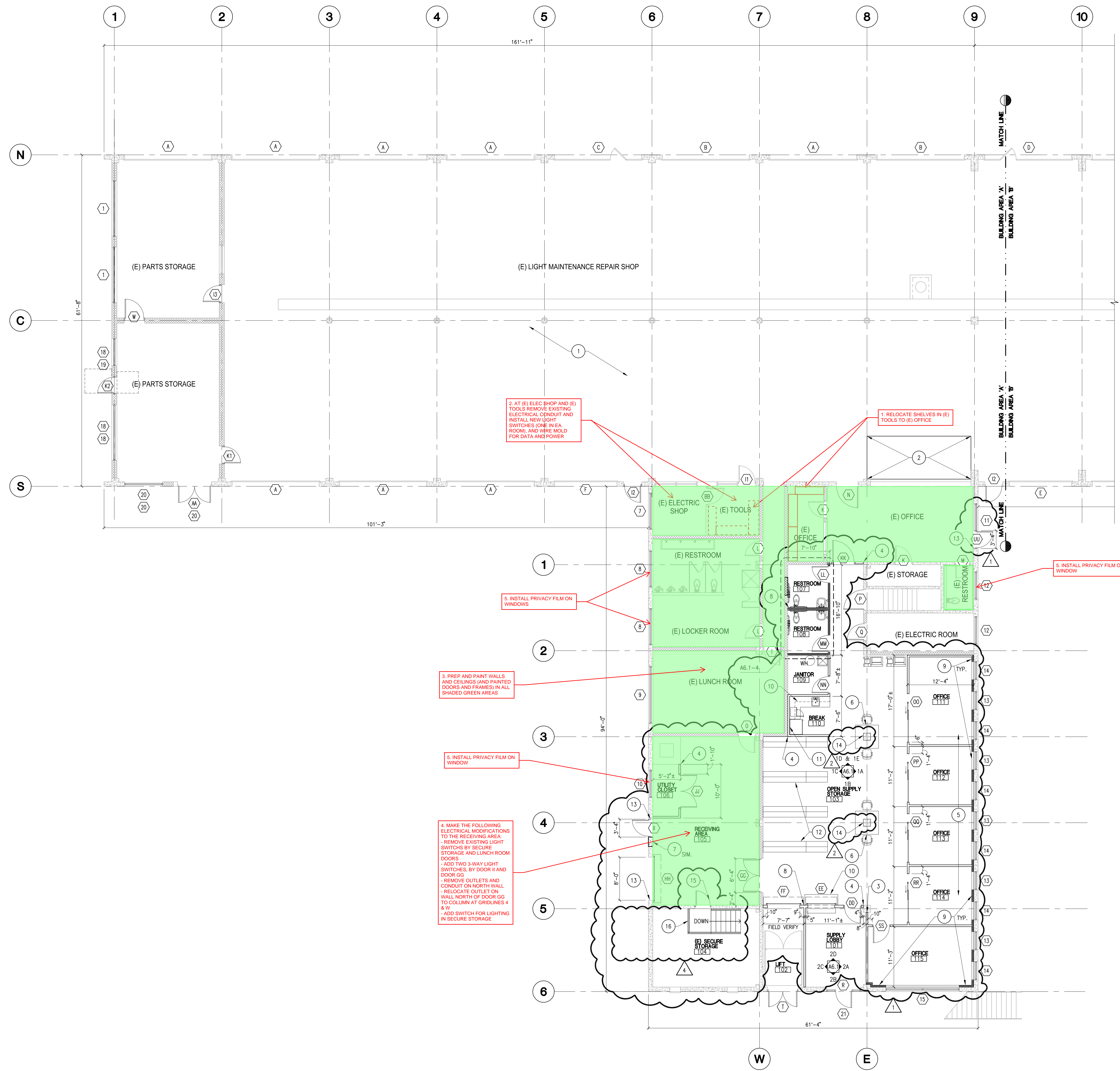
PROJECT	18059.00	DATE	5-2-18
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REVISED	ADDENDUM NO. ONE	05-15-18
ADDENDUM NO. FIVE	06-06-18	

**MAIN FLOOR
SLAB PLAN
AREA 'A'**

A20

ORIGINAL SHEET SIZE
30" x 42"



2. AT (E) ELEC SHOP AND (E) TOOLS REMOVE EXISTING ELECTRICAL CONDUIT AND INSTALL NEW LIGHT SWITCHES ONE IN EA. ROOM, AND WIRE MOLD FOR DATA AND POWER.

1. RELOCATE SHELVES IN (E) TOOLS TO (E) OFFICE

5. INSTALL PRIVACY FILM ON WINDOWS

3. PREP AND PAINT WALLS AND CEILINGS (AND PAINTED DOORS AND FRAMES) IN ALL SHADED GREEN AREAS

5. INSTALL PRIVACY FILM ON WINDOW

4. MAKE THE FOLLOWING ELECTRICAL MODIFICATIONS TO THE RECEIVING AREA:
 - REMOVE EXISTING LIGHT SWITCHES BY SECURE STORAGE AND LUNCH ROOM DOORS
 - ADD TWO 3-WAY LIGHT SWITCHES, BY DOOR II AND DOOR GG
 - REMOVE OUTLETS AND CONDUIT ON NORTH WALL
 - RELOCATE OUTLET ON WALL NORTH OF DOOR GG TO COLUMN AT GRIDLINES 4 & W
 - ADD SWITCH FOR LIGHTING IN SECURE STORAGE

5. INSTALL PRIVACY FILM ON WINDOW

1 MAIN FLOOR PLAN - AREA 'A'
 SCALE 1/8" = 1'-0"

LEGEND:

- EXISTING CONCRETE WALL
- EXISTING CMU WALL
- EXISTING FRAME WALL
- NEW CONCRETE INFILL WALL
- NEW CMU INFILL WALL
- NEW METAL STUD FRAME WALL OR FURRING

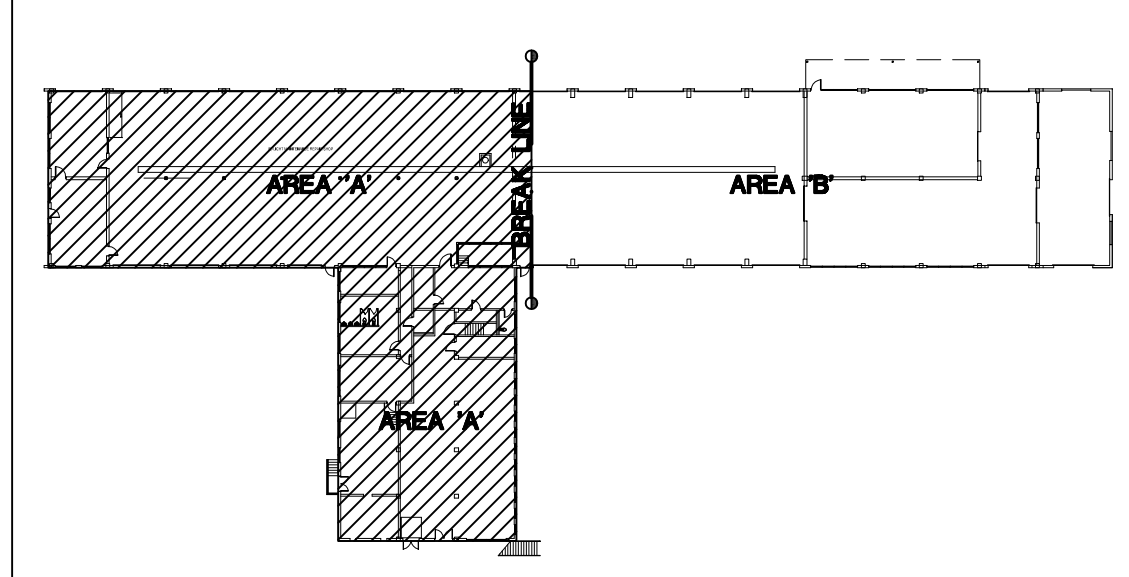
GENERAL NOTES:

- A. WHERE WORK OCCURS IN ROOMS OTHER THAN THE REPAIR SHOPS CONTRACTOR TO PAINT TO MATCH EXISTING COLOR UNLESS NEW PAINT COLOR IS INDICATED.
- B. ALL METAL FRAMED WALLS/PARTITIONS ARE 3/8" STUDS UNLESS OTHERWISE NOTED.
- C. EXTEND ALL METAL STUD FRAMED WALLS TO BOTTOM OF SECOND FLOOR STRUCTURE ABOVE UNLESS OTHERWISE NOTED.
- D. ALL WALL DIMENSIONS ARE TO FACE OF CONCRETE AND/OR FACE OF STUD UNLESS NOTED OTHERWISE.
- E. VERIFY DIMENSIONS OF ALL FIXTURES AND EQUIPMENT PROVIDED BY OWNER AND OWNER'S OUTSIDE CONTRACTORS.
- F. PROVIDE BLOCKING AS REQUIRED FOR ALL WALL MOUNTED ITEMS.
- G. WHERE NEW WORK IS CALLED FOR, SUCH WORK SHALL INCLUDE REQUIRED DEMOLITION OR REMOVAL OF EXISTING FINISHES, SYSTEMS AND ALL RELATED ITEMS.

SHEET NOTES:

1. SHERWIN WILLIAMS, "PURE WHITE" SW7005, EGGSHELL.
2. WHERE EXISTING SHOP FORMAN OFFICE IS REMOVED, PLACE NEW 6" CONCRETE FLOOR W/ 6"x6"-6/6 WIRE MESH REINFORCING. PLACE #4 DOWELS AT 24" O.C. BETWEEN EXISTING AND NEW SLABS. TOP OF SLAB TO BE FLUSH WITH TOP OF ADJACENT SLAB.
3. CENTER NEW FRAMED WALL ON EXISTING CONCRETE COLUMN.
4. ALIGN NEW CONSTRUCTION WITH EXISTING AND ADJUST DIMENSIONS TO COORDINATE WITH INTENDED ALIGNMENT OR RELATIONSHIP.
5. REFER TO A61-3 FOR TYPICAL OFFICE ELEVATIONS.
6. STAND UP WORK COUNTER, RE: A71-16.
7. INFILL EXISTING OPENING IN MASONRY OR CONCRETE WHERE DEMOLITION WORK HAS OCCURRED, RE: STRUCT.
8. 6" STUD WALL.
9. FURR EXTERIOR WALL WITH 3/8" METAL STUDS AT 24" O.C. INSULATE FURRING WALL WITH R-13 MINIMUM BATT INSULATION. INSTALL VAPOR BARRIER ON INTERIOR MOST SIDE OF FURRING.
10. MILLWORK, SEE SHEET A61.
11. 3/8" METAL STUD FURRING AT 24" O.C.
12. RELOCATED PARTS STORAGE RACK, (TYP. OF 4). POWDER COAT RACKS PRIOR TO FINAL PLACEMENT, RE A61 FOR COLOR.
13. EDGE OF EXISTING OPENING
14. PAINT EXISTING CONCRETE COLUMN 'P1'.
15. REUSE EXISTING DOOR, FRAME AND HARDWARE.
16. (N) METAL STAIRS AND LANDING, RE: A71-22.

BUILDING KEY PLAN



ORIGINAL DOCUMENT SIGNED BY ARCHITECT ON FILE WITH THE ORIGINAL SIGNED BY CRAIG A. SJOCUM ORIGINAL DATE SIGNED: JUNE 2018
 LOANED BY: JUNE 2018
 CRAIG A. SJOCUM ARCHITECT
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ITD DIST 3 MAINTENANCE BLDG UPGRADES GARDEN CITY, ID
5800 COFFEY STREET
 FOR CONSTRUCTION 6/25/18

PROJECT 18059.00 DATE 5-2-18
 DRAWN LGB CHECKED CAS
 REVISED
 1 ADDENDUM NO. ONE 05-15-18
 2 ADDENDUM NO. THREE 05-24-18
 4 ADDENDUM NO. FIVE 06-06-18

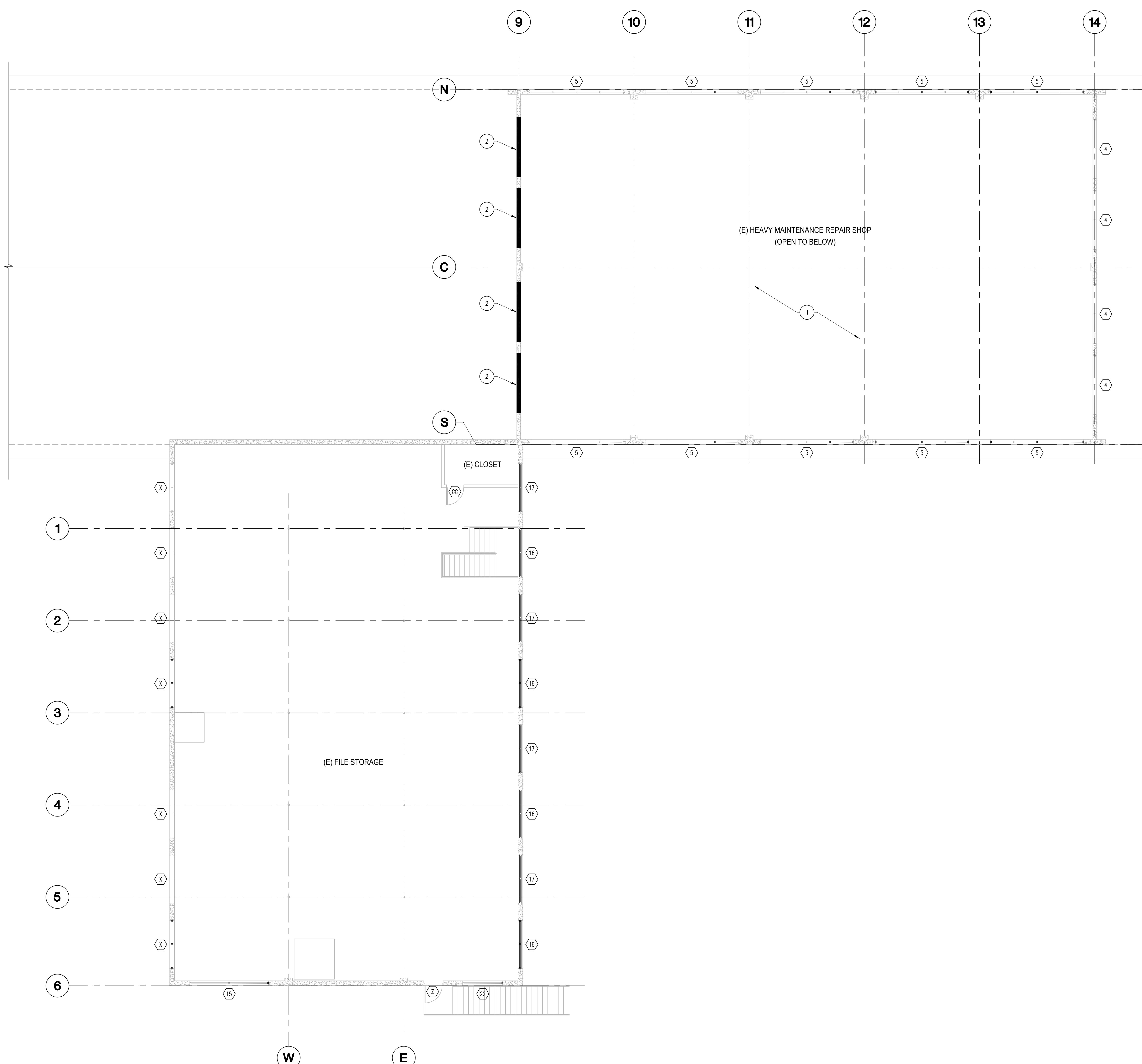
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FOR CONSTRUCTION 6/25/18

SHEET TITLE
MAIN FLOOR PLAN AREA 'A'

SHEET
A21A

ORIGINAL SHEET SIZE 30" x 42"



1 SECOND FLOOR PLAN
SCALE 1/8" = 1'-0"

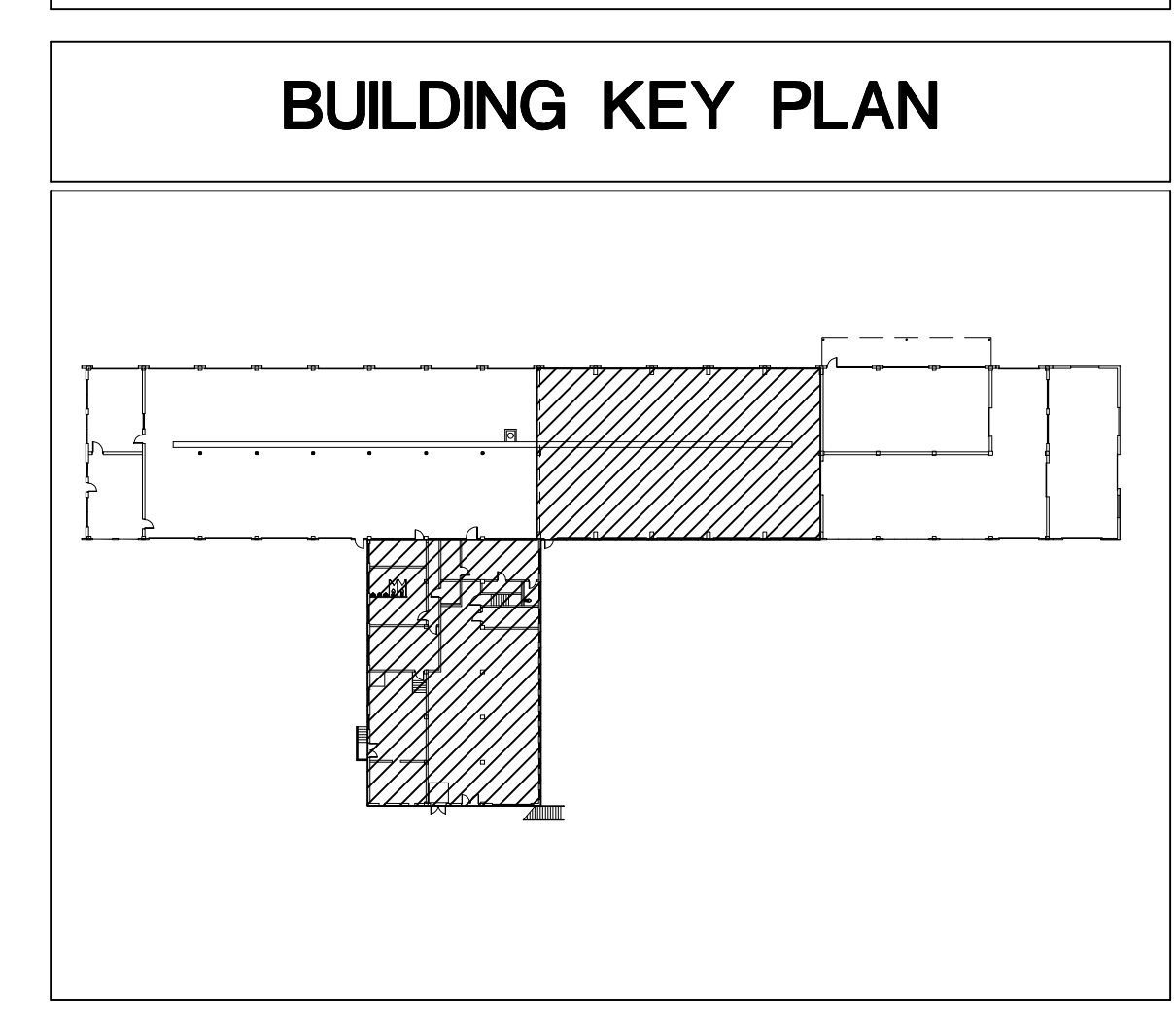
LEGEND:

	EXISTING CONCRETE WALL
	EXISTING CMU WALL
	EXISTING FRAME WALL

GENERAL NOTES:

A. WHERE WORK OCCURS IN ROOMS OTHER THAN THE REPAIR SHOPS CONTRACTOR TO PAINT TO MATCH EXISTING COLOR.

- # SHEET NOTES:**
1. PAINT THE INTERIOR WALLS, CEILINGS, STRUCTURE AND ALL OTHER PAINTED ELEMENTS IN THE MAINTENANCE & REPAIR SHOPS. PAINT COLOR TO MATCH SHERWIN WILLIAMS, "PURE WHITE" SW7005, EGGSHELL.
 2. FILL IN EXISTING WINDOW OPENING WITH WALL FRAMING, RE: A71-5.



APPROVED FOR CONSTRUCTION BY:
CRAIG A. SJOCUM, ARCHITECT
DATE: 6/25/18

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GARDEN CITY, ID**

FOR CONSTRUCTION
6/25/18

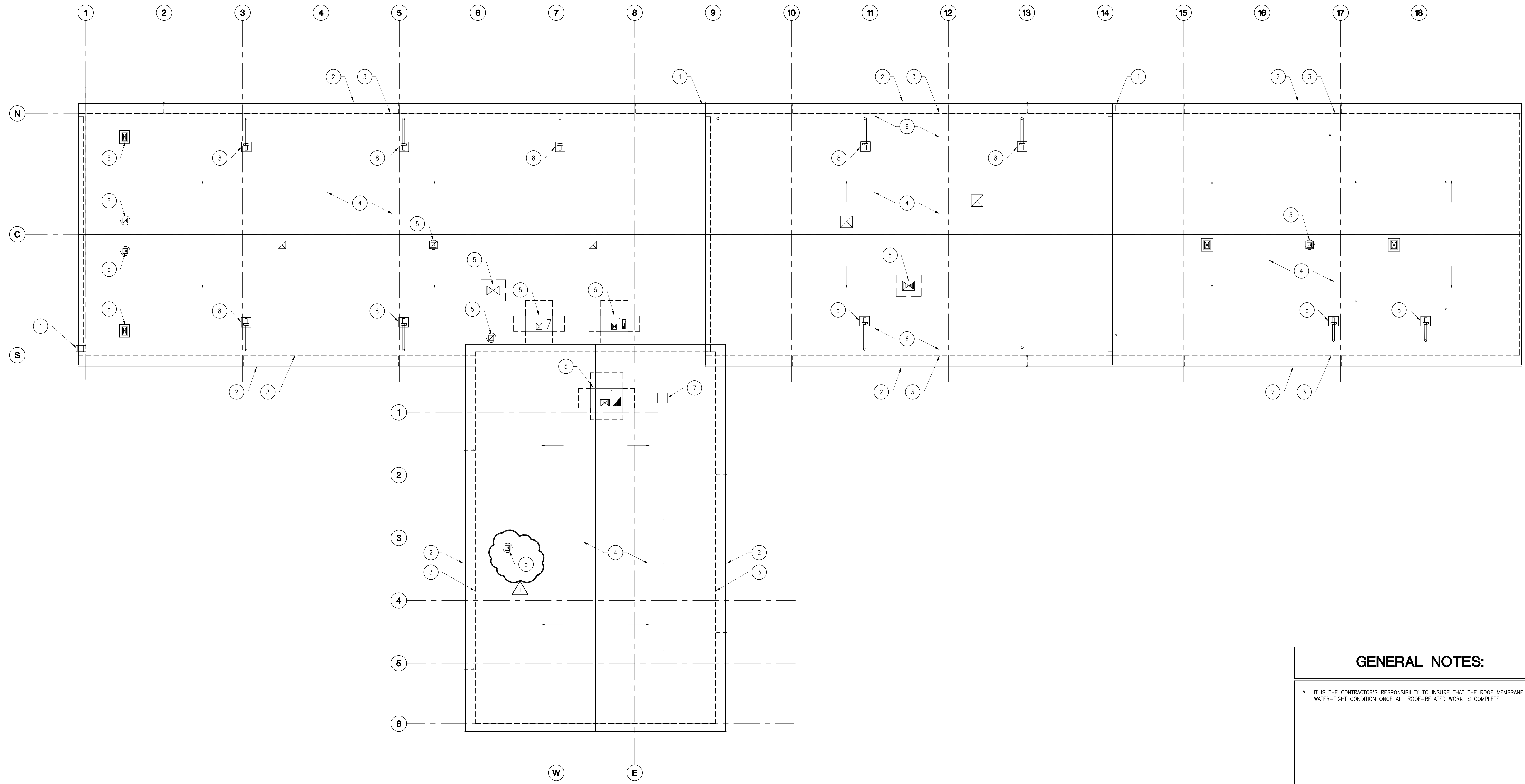
PROJECT: 18059.00
DATE: 5-2-18
DRAWN: LGB
CHECKED: CAS

REVISIONS:

SHEET TITLE:
SECOND FLOOR PLAN

SHEET:
A22

ORIGINAL SHEET SIZE:
30" x 42"



1 ROOF PLAN
SCALE 3/32" = 1'-0"

GENERAL NOTES:

A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSURE THAT THE ROOF MEMBRANE IS IN WATER-TIGHT CONDITION ONCE ALL ROOF-RELATED WORK IS COMPLETE.

- # SHEET NOTES:**
- (E) FIXED ROOF ACCESS LADDER
 - (E) RAIN GUTTER
 - LIMIT OF EXTERIOR BUILDING WALLS
 - (E) ROOF MEMBRANE
 - (N) CURBED OPENING, RE: A71-7 AND MECHANICAL.
 - REPAIR AREAS OF WATER PONDING ALONG THE NORTH AND SOUTH EAVES OF THE HIGH BAY PORTION OF THE STRUCTURE.
 - (E) 30"x30" ROOF SCUTTLE
 - PLATFORM FOR (N) EXHAUST FAN, RE: A71-8 AND MECHANICAL.

ORIGINAL DOCUMENT SIGNED BY
ARCHITECT ON FILE WITH THE
ORIGINAL SIGNED BY:
CRAIG A. SLACUM
ARCHITECT
JAN 8, 2018

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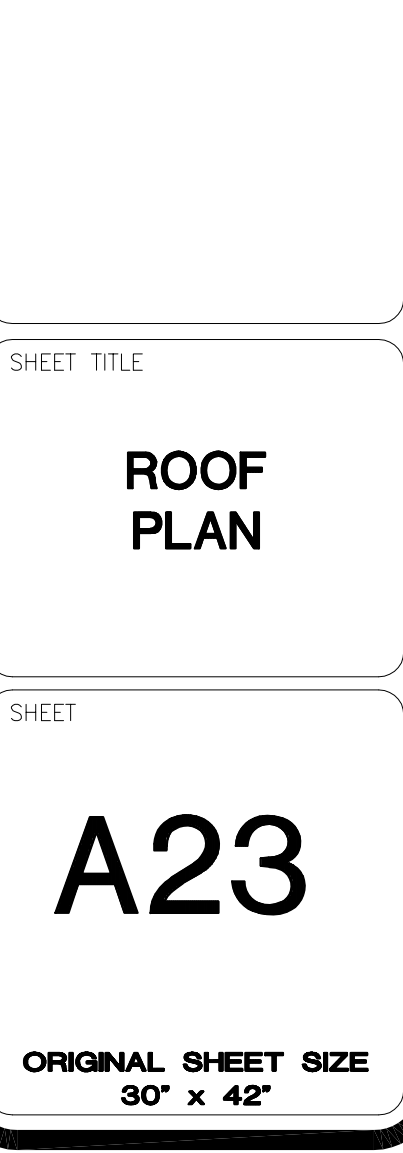
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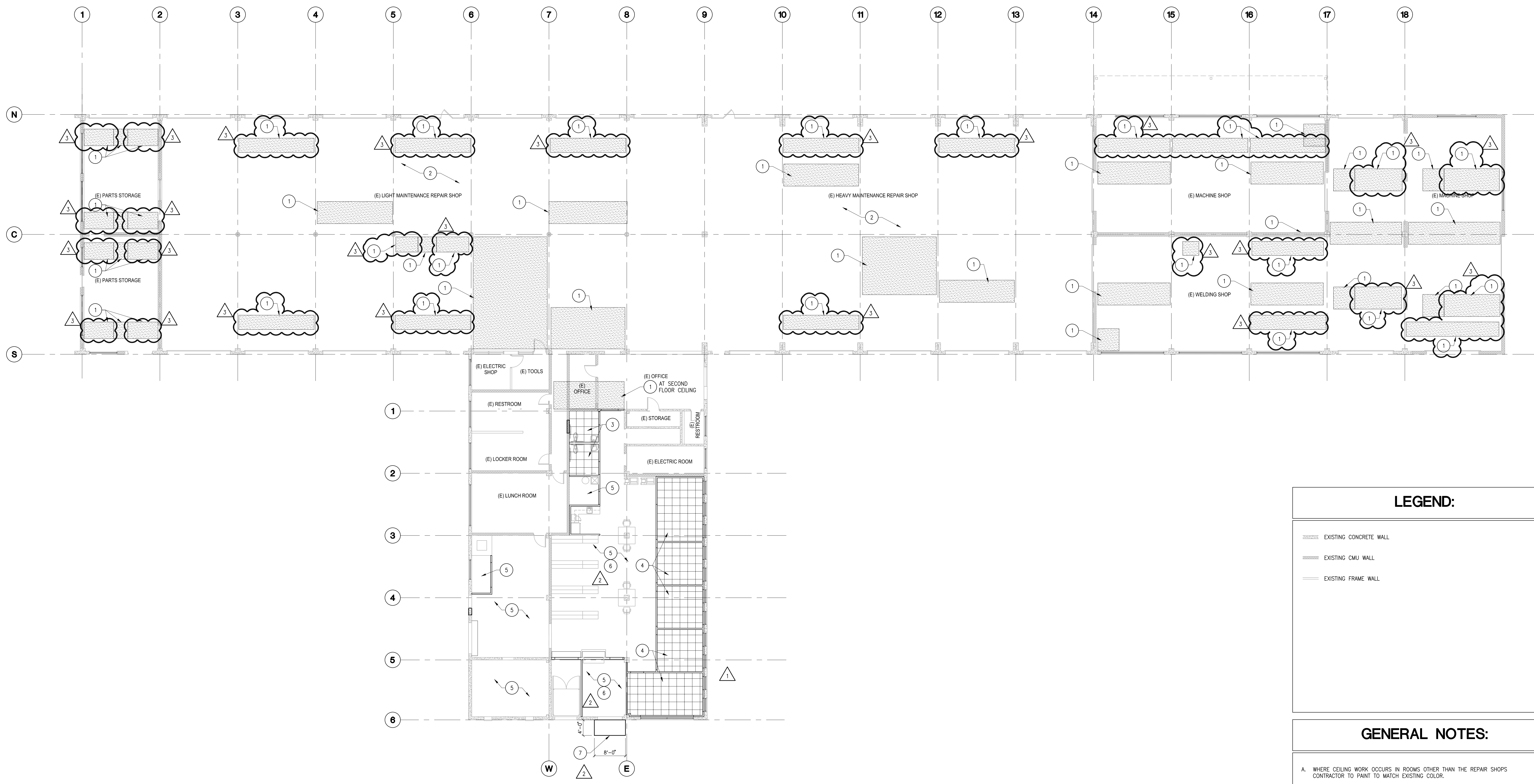
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DRAWN: LGB CHECKED: CAS
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ADDENDUM NO. ONE
05-15-18

SHEET TITLE
ROOF PLAN

SHEET
A23

ORIGINAL SHEET SIZE
30" x 42"





1 REFLECTED CEILING PLAN - MAIN FLOOR
SCALE 3/32" = 1'-0"

LEGEND:

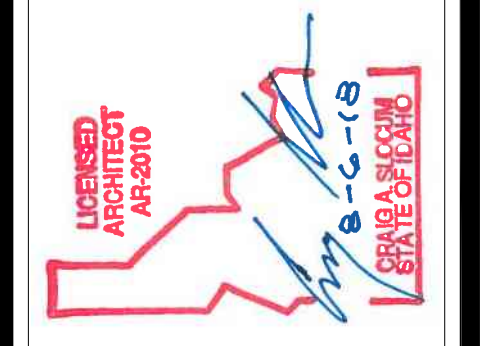
- EXISTING CONCRETE WALL
- EXISTING CMU WALL
- EXISTING FRAME WALL

GENERAL NOTES:

- A. WHERE CEILING WORK OCCURS IN ROOMS OTHER THAN THE REPAIR SHOPS CONTRACTOR TO PAINT TO MATCH EXISTING COLOR.
- B. FOR MECHANICAL EQUIPMENT/WORK SEE MECHANICAL PLANS.
- C. FOR ELECTRICAL FIXTURES/WORK SEE ELECTRICAL PLANS.

SHEET NOTES:

1. REPAIR/REPLACE PORTIONS OF PLASTER CEILING AS NEEDED WHERE ROOF AND HVAC WORK OCCURS. COORDINATE LOCATIONS AND EXTENT OF WORK NEEDED WITH MECHANICAL AND STRUCTURAL.
2. PAINT CEILINGS (STRUCTURAL MEMBERS AND ALL OTHER EXISTING PAINTED ELEMENTS AT CEILING) IN THE REPAIR SHOPS. PAINT COLOR TO MATCH SHERWIN WILLIAMS 'PURE WHITE' SW7005.
3. 2'x2' VINYL FACED GYP. BRD. LAY-IN SUSPENDED CEILING AT 8'-0" A.F.F.
4. 2'x2' ACOUSTICAL TILE LAY-IN SUSPENDED CEILING AT 9'-6" A.F.F.
5. OPEN TO STRUCTURE ABOVE.
6. PAINT UNDERSIDE OF SECOND FLOOR STRUCTURE 'P1'.
7. (N) ANNING, RE: A71-19. CENTER OVER DOOR.



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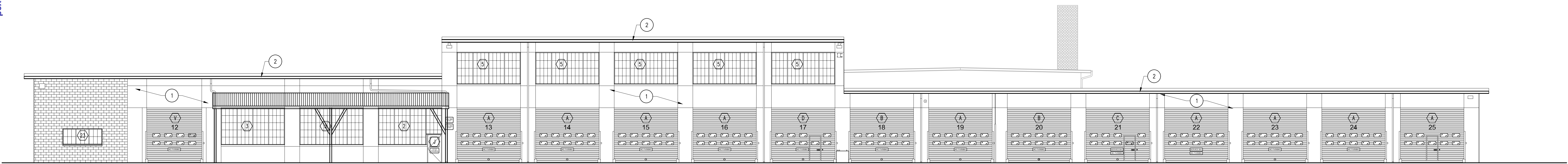
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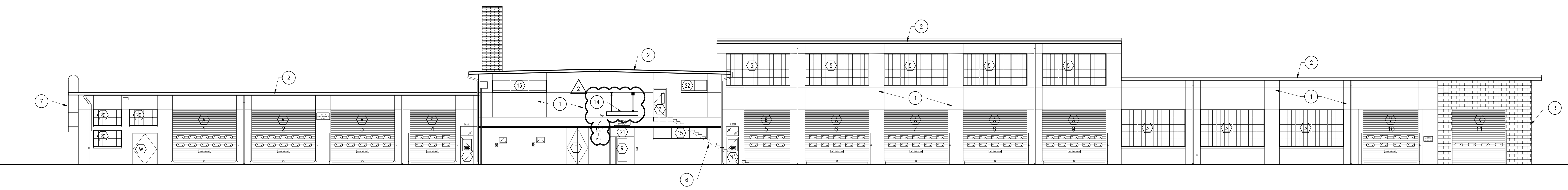
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2 ADDENDUM NO. THREE 05-24-18	
3 CCD 001 08-06-18	

SHEET TITLE
**REFLECTED CEILING PLAN
MAIN FLOOR**

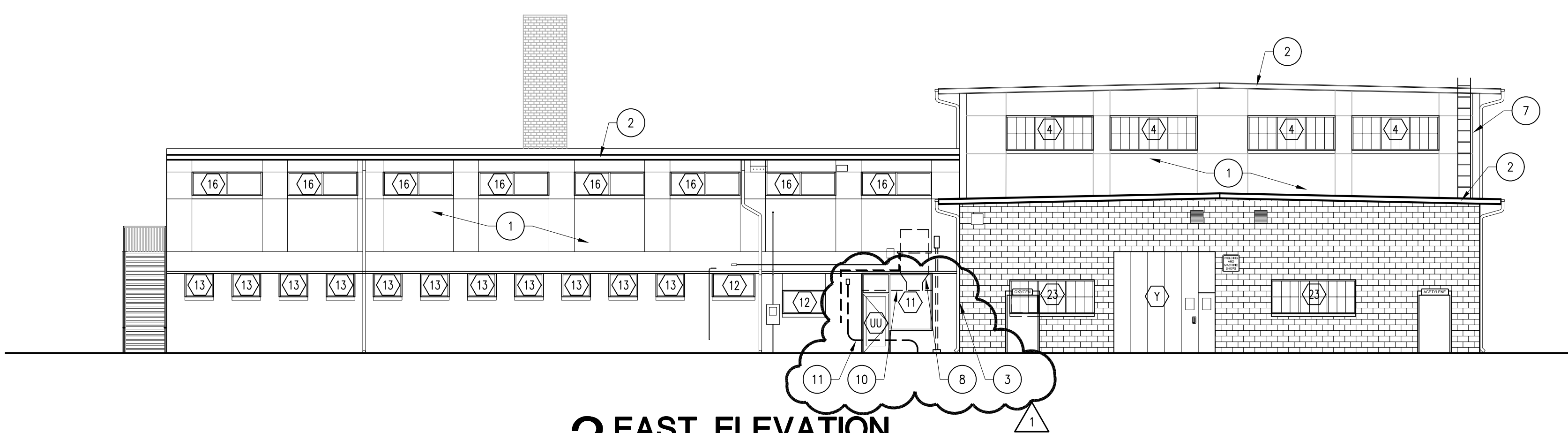
SHEET
A31
ORIGINAL SHEET SIZE
30" x 42"



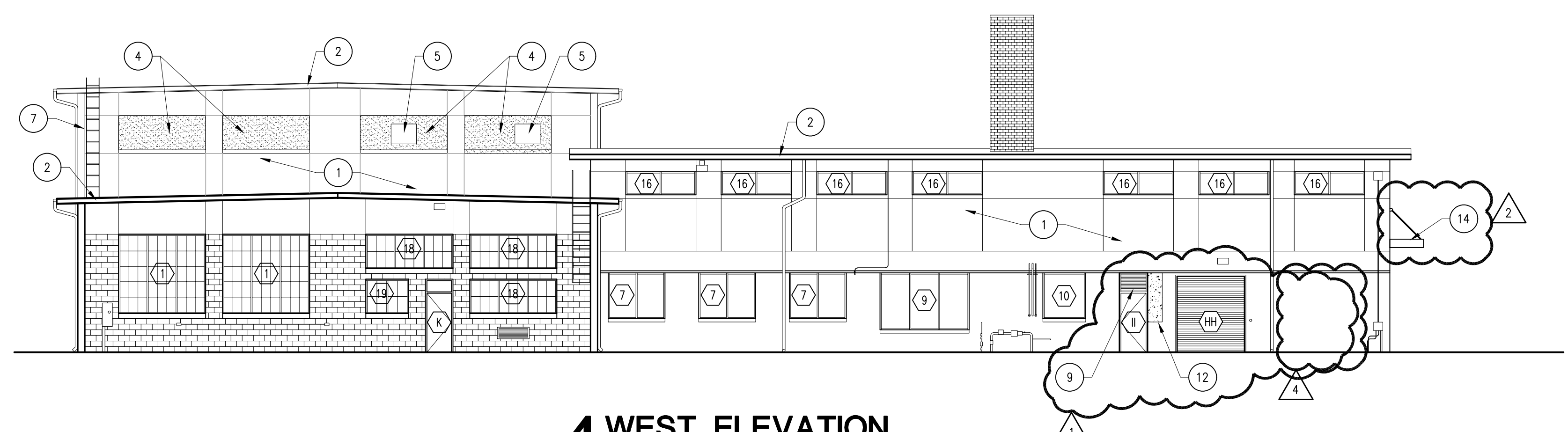
1 NORTH ELEVATION
SCALE 3/32" = 1'-0"



2 SOUTH ELEVATION
SCALE 3/32" = 1'-0"



3 EAST ELEVATION
SCALE 3/32" = 1'-0"



4 WEST ELEVATION
SCALE 3/32" = 1'-0"

GENERAL NOTES:

A. ALL BUILDING SIGNAGE IS TO BE REMOVED/REPLACED/INSTALLED BY ITD. CONTRACTOR TO COORDINATE WITH ITD.

SHEET NOTES:

1. PAINT EXTERIOR OF BUILDING (ALL ELEMENTS THAT ARE CURRENTLY PAINTED). COLORS TO MATCH EXISTING.
2. REPLACE ALL FASCIA AND SOFFIT BOARDS THAT ARE DAMAGED OR IN POOR CONDITION.
3. REPAIR DAMAGED CMU AT SE CORNER OF BUILDING.
4. FRAME IN EXISTING WINDOW OPENING AND SHEATH WITH STUCCO, RE: A71-5.
5. (N) EXHAUST FAN, RE: MECHANICAL. PROVIDE SOLID BLOCKING IN WALL AS REQUIRED FOR SUPPORT.
6. EXISTING STAIRS, LANDING AND RAILING (NOT SHOWN FOR CLARITY). PAINT.
7. EXISTING FIXED ROOF ACCESS LADDER. PAINT.
8. EXISTING MECHANICAL EQUIPMENT TO BE REMOVED (SEE MECHANICAL). FILL IN ALL WALL OPENINGS WITH MATCHING WALL MATERIAL.
9. (N) LOUVER ABOVE DOOR, RE: MECH.
10. REMOVE EXISTING INFILL AT UPPER PORTION OF WINDOW OPENING FOR INSTALLATION OF (N) STOREFRONT.
11. EXISTING ELECTRICAL CONDUIT TO BE REROUTED OR ABANDONED, RE: ELEC.
12. PARTIAL INFILL OF OPENING WITH CONCRETE TO MATCH EXISTING WALL THICKNESS AND TEXTURE, RE: A10 AND A21.
13. NOT USED.
14. (N) AWNING, RE: A71-19. PAINT TO MATCH GREEN BUILDING TRIM COLOR.

APPROVED
CRAIG A. SIJOCUM
ARCHITECT
ORIGINAL DOCUMENT ISSUED BY ARCHITECT ON FILE WITH THE ORIGINAL SIGNED BY CRAIG A. SIJOCUM
ORIGINAL DATE SIGNED: JUNE 28, 2018

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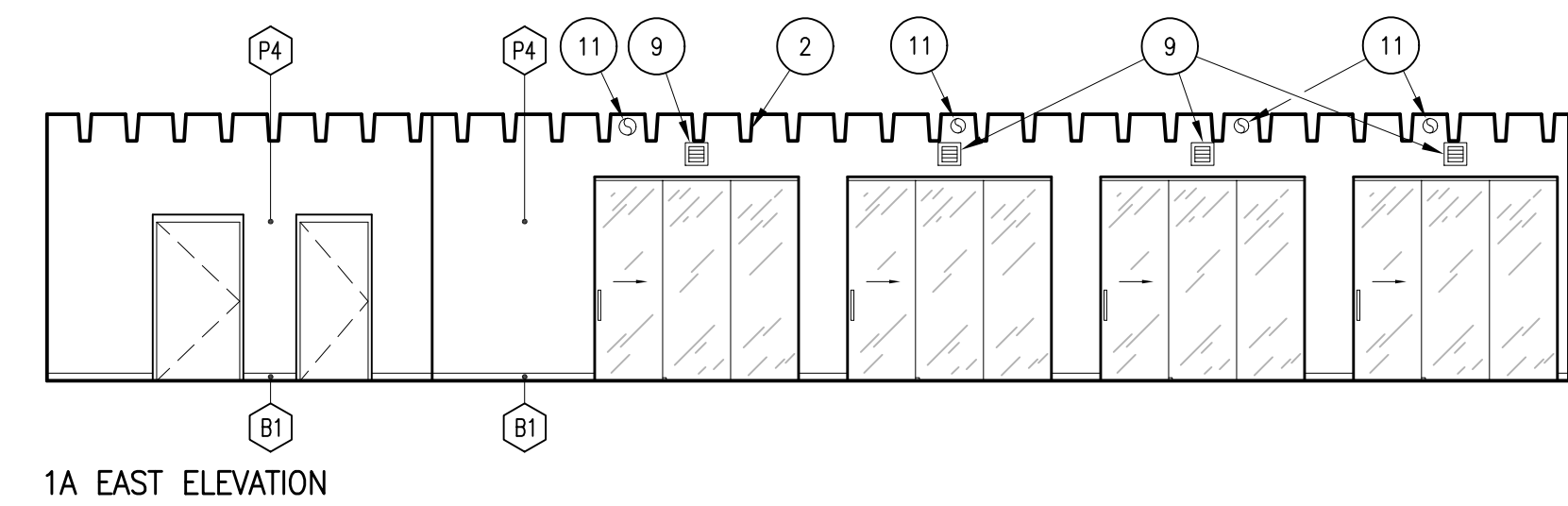
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2 ADDENDUM NO. THREE 05-24-18
4 ADDENDUM NO. FIVE 06-06-18

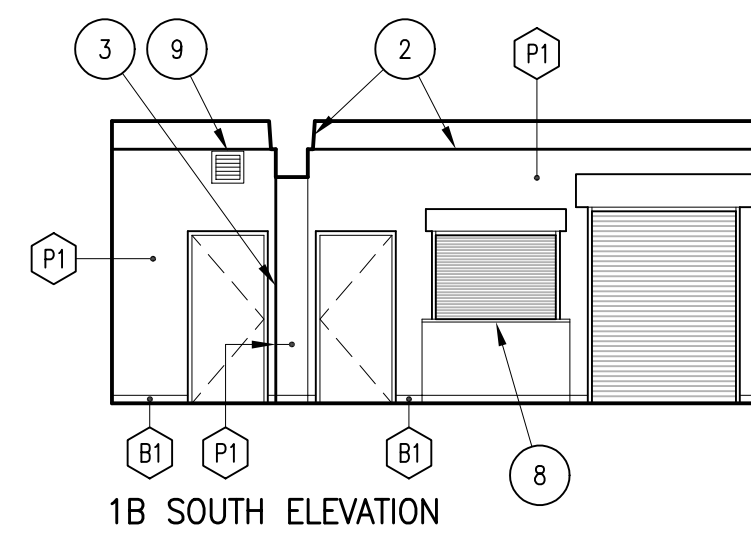
SHEET TITLE
EXTERIOR ELEVATIONS

SHEET
A51

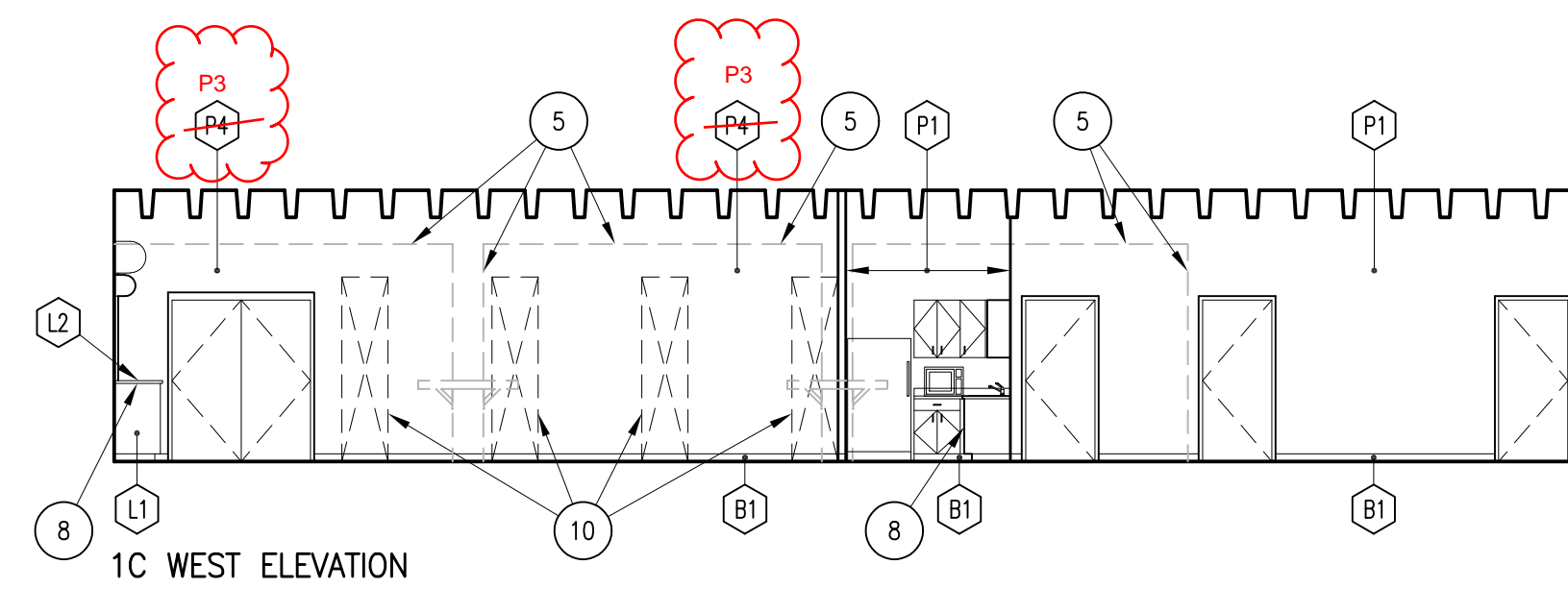
ORIGINAL SHEET SIZE
30" x 42"



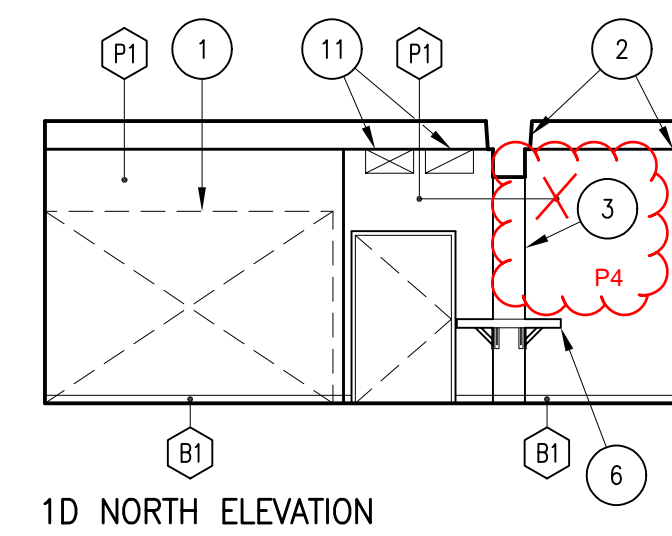
1A EAST ELEVATION



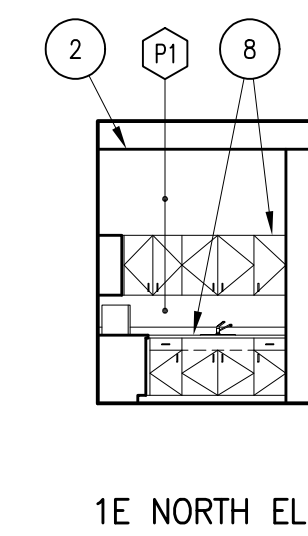
1B SOUTH ELEVATION



1C WEST ELEVATION

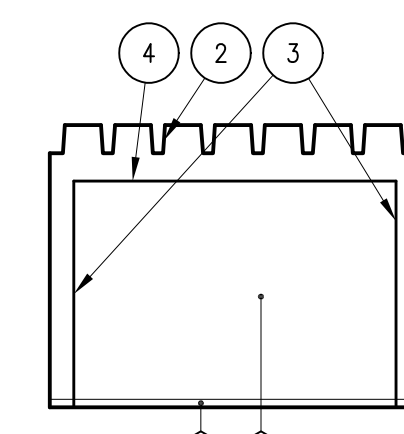


1D NORTH ELEVATION

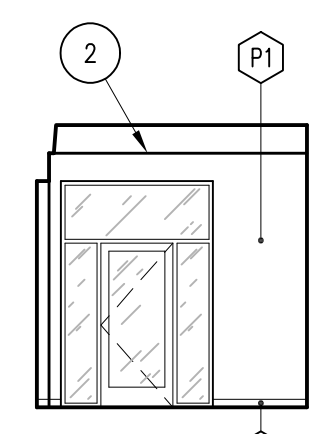


1E NORTH ELEVATION - BREAK ROOM

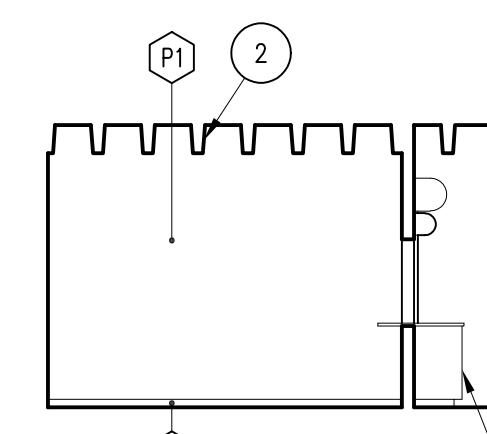
1 INTERIOR ELEVATIONS - OPEN SUPPLY STORAGE
SCALE 1/8"=1'



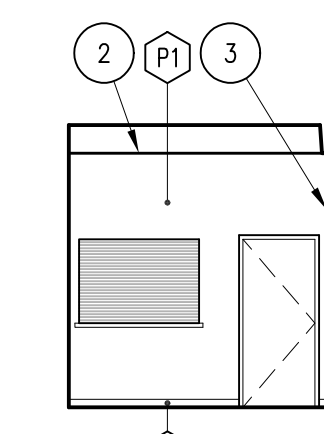
2A EAST ELEVATION



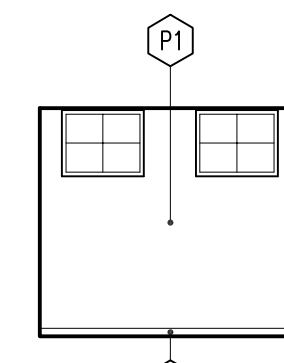
2B SOUTH ELEVATION



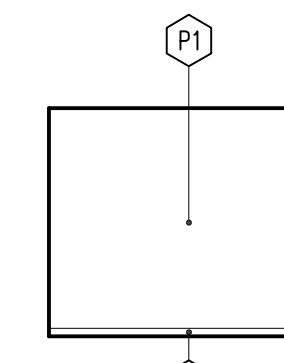
2C WEST ELEVATION



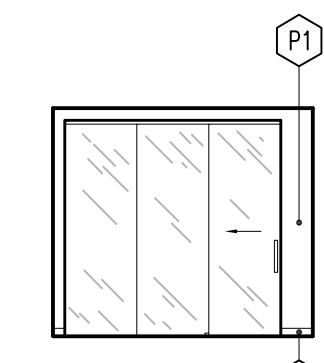
2D NORTH ELEVATION



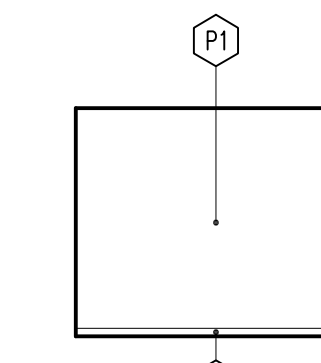
3A EAST ELEVATION



3B SOUTH ELEVATION



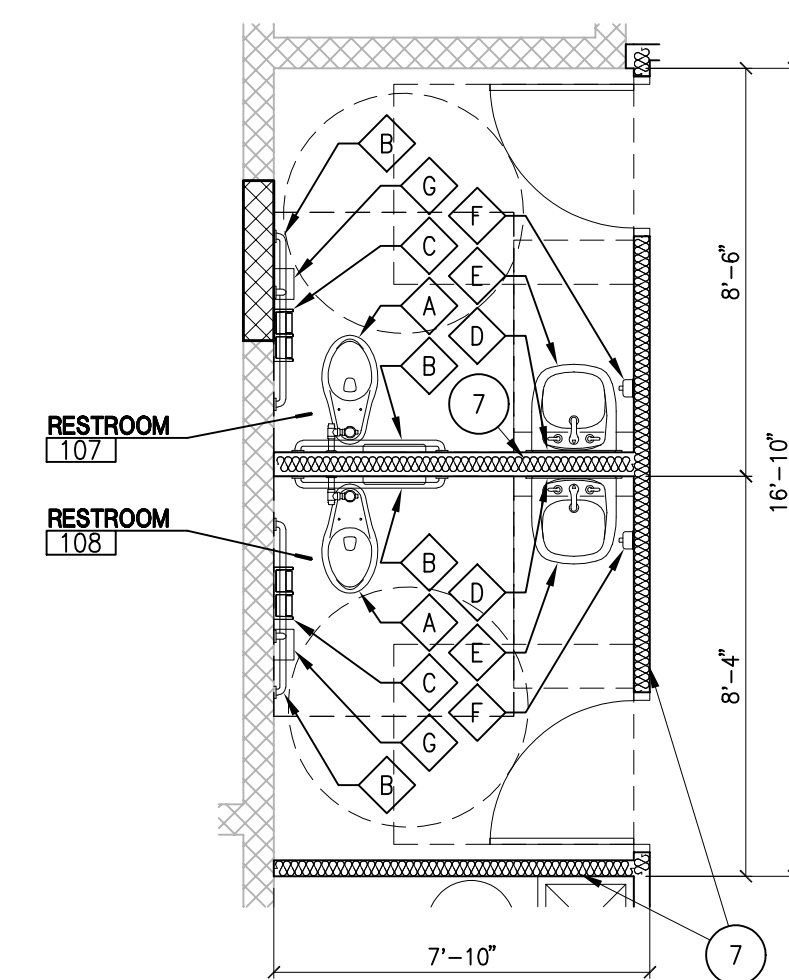
3C WEST ELEVATION



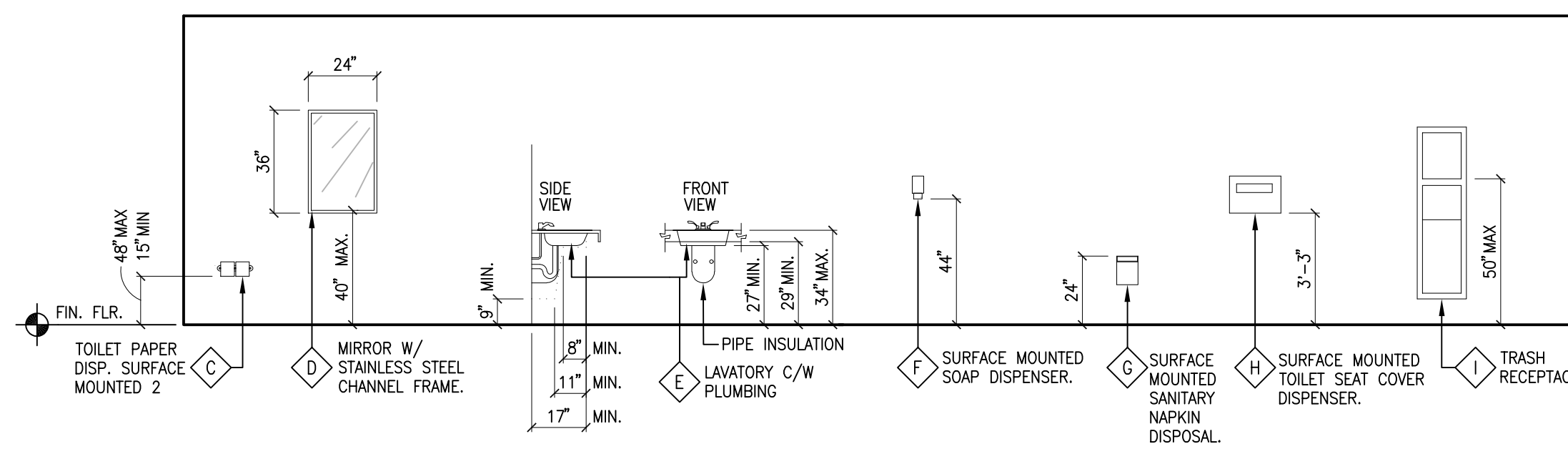
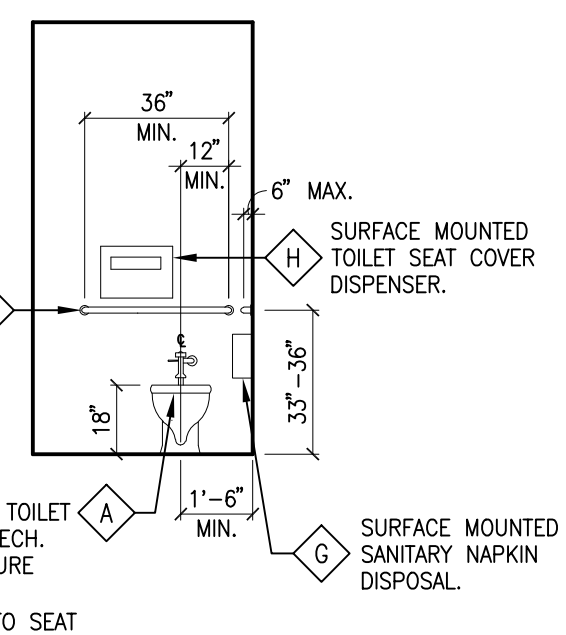
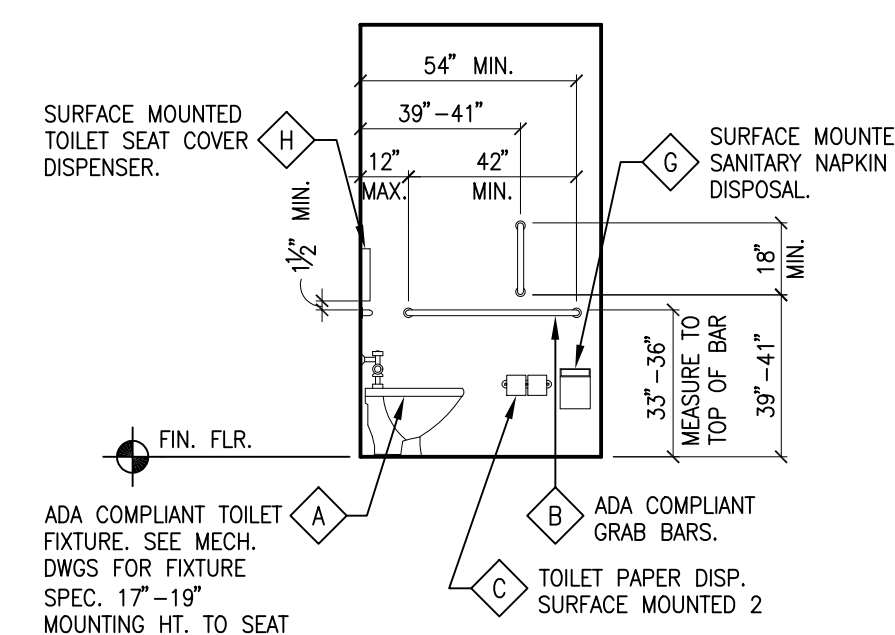
3D NORTH ELEVATION

2 INTERIOR ELEVATIONS - SUPPLY LOBBY
SCALE 1/8"=1'

3 INTERIOR ELEVATIONS - TYPICAL OFFICE
SCALE 1/8"=1'



SEE A6.1-5 FOR RESTROOM FIXTURE DESIGNATIONS AND LOCATIONS



NOTE: PROVIDE SOLID BLOCKING OR OTHER SUITABLE BACKING AT LOCATIONS INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING EDGES WHERE FINISH MATERIALS CHANGE, GRAB BARS, TOILET PARTITIONS, DOOR STOPS, SHELF BRACKETS, HANDRAILS AND ALL MOUNTED EQUIPMENT, INCLUDING EQUIPMENT FURNISHED BY OWNER. SEE SPECIFICATIONS FOR LOADING RESISTANCE REQUIRED. EXTEND BACKING 6" BEYOND OUTLINE OF EQUIPMENT.

4 ENLARGED RESTROOM PLAN
SCALE 1/4"=1'

5 FIXTURE MOUNTING LOCATIONS
SCALE 1/4"=1'

SCHEDULE OF INTERIOR MATERIALS AND FINISHES

ROOM NO.	ROOM NAME	NORTH				EAST				SOUTH				WEST				FLOOR		CEILING		REMARKS
		MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	BASE	MATERIAL	HEIGHT			
101	SUPPLY LOBBY	GYP	P1	GYP	P1	GYP/EC	P1	GYP	P1	EC	B1	• STRUCT	-	2	• PAINT UNDERSIDE OF SECOND FLOOR STRUCTURE 'P1'							
102	LIFT	GYP	-	GYP	-	EC	-	EC	-	EC	-	•	-	-	• OPEN							
103	OPEN SUPPLY STORAGE	GYP/EM	• P1, P4	GYP	• P4	GYP/EC	• P1	GYP/EM	• P1, P3	EC	B1	•• STRUCT	-	2	• SEE ELEVATION A6.1-1 • PAINT UNDERSIDE OF SECOND FLOOR STRUCTURE 'P1'							
104	SECURE STORAGE	EC	-	EC	-	EC	-	EC	-	CONC	-	STRUCT	-	-	-							
105	RECEIVING AREA	EM	-	EM/EC	-	EC	-	GYP/EC	-	CONC	-	STRUCT	-	-	-							
106	UTILITY CLOSET	EM	-	PLY	•	PLY	•	EC	-	CONC	-	STRUCT	-	-	• PLYWOOD TO 8'-0" A.F.F.							
107	RESTROOM	EM	SKIM/P1	GYP	• T1/P1	GYP	• T1/P1	EM	• T1/P1	CONC	•• T1	SVT	8'-0"	-	• SEE DETAIL A61-8, •• 6" HIGH TILE BASE AT PAINTED GYP. BRD. WALL							
108	RESTROOM	GYP	• T1/P1	GYP	• T1/P1	GYP	PT	EM	• T1/P1	CONC	•• T1	SVT	8'-0"	-	• SEE DETAIL A61-8, •• 6" HIGH TILE BASE AT PAINTED GYP. BRD. WALL							
109	JANITOR	GYP	• L3	GYP	-	GYP	-	EM	-	CONC	B1	STRUCT	-	-	• 4'-0" x 8'-0" FRP PANEL AT MOP SINK. PAINT EXPOSED GYP. BRD. P1							
110	BREAK	GYP	P1	-	-	GYP	P1	GYP	P1	EC/CONC	B1	• STRUCT	-	2	• PAINT UNDERSIDE OF SECOND FLOOR STRUCTURE 'P1'							
111	OFFICE	GYP	P1	GYP	P1	GYP	P1	GYP	P1	CPT	B1	ACT	9'-6"	-	-							
112	OFFICE	GYP	P1	GYP	P1	GYP	P1	GYP	P1	CPT	B1	ACT	9'-6"	-	-							
113	OFFICE	GYP	P1	GYP	P1	GYP	P1	GYP	P1	CPT	B1	ACT	9'-6"	-	-							
114	OFFICE	GYP	P1	GYP	P1	GYP	P1	GYP	P1	CPT	B1	ACT	9'-6"	-	-							
115	OFFICE	GYP	P1	GYP	P1	GYP	P1	GYP	P1	CPT	B1	ACT	9'-6"	-	-							

MATERIAL
GYP - 5/8" GYPSUM BOARD (WATER RESISTANT GYP. BRD. AT FRAMED RESTROOM WALLS)
PLY - 3/4" CDX PLYWOOD
CMU - CONCRETE MASONRY UNITS
CONC - NEW CONCRETE
SKIM - NEW CONCRETE SKIM COAT OVER EXISTING SURFACE
EC - EXISTING CONCRETE
EM - CONCRETE MASONRY UNITS (OR BRICK WHERE OCCURS)
STRUCT - OPEN TO STRUCTURE ABOVE
ACT - 2'x2' SUSPENDED ACOUSTICAL CEILING TILE
SVT - 2'x2' SUSPENDED VINYL FACE CEILING TILE

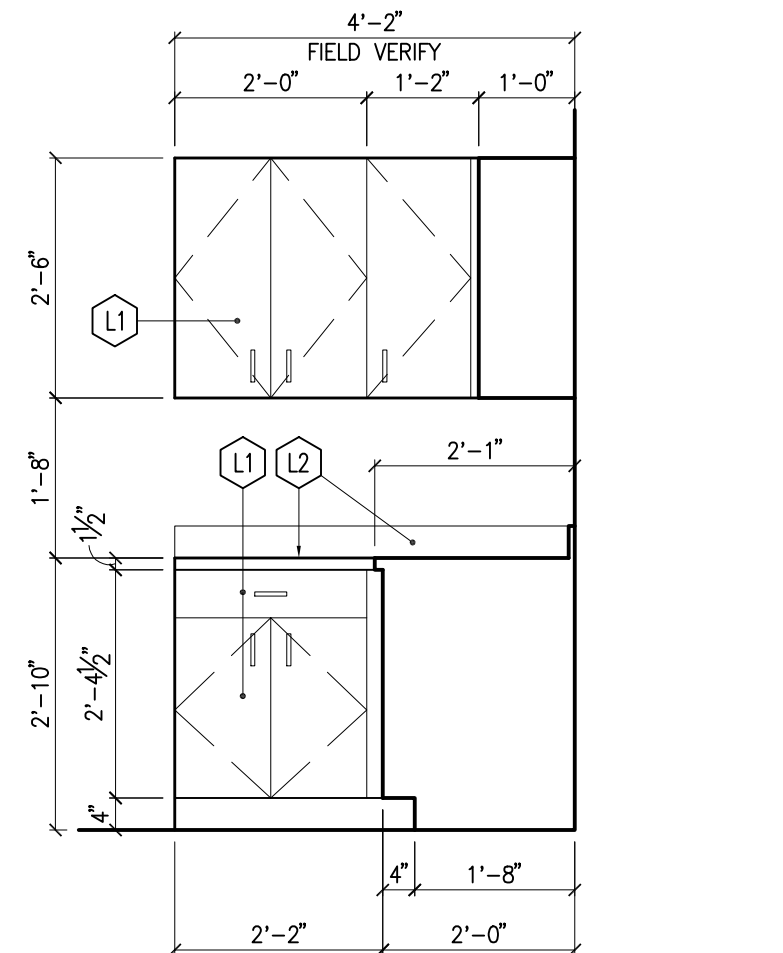
FLOORING
F1 - CARPET TILE - MANNINGTON COMMERCIAL, SCRIPT MODULAR BOROUGH 15217, INSTALLATION - HORIZONTAL BRICK ASHLAR

WALL BASE
B1 - JOHNSONITE, 4" RUBBER BASE #48 GREY WG

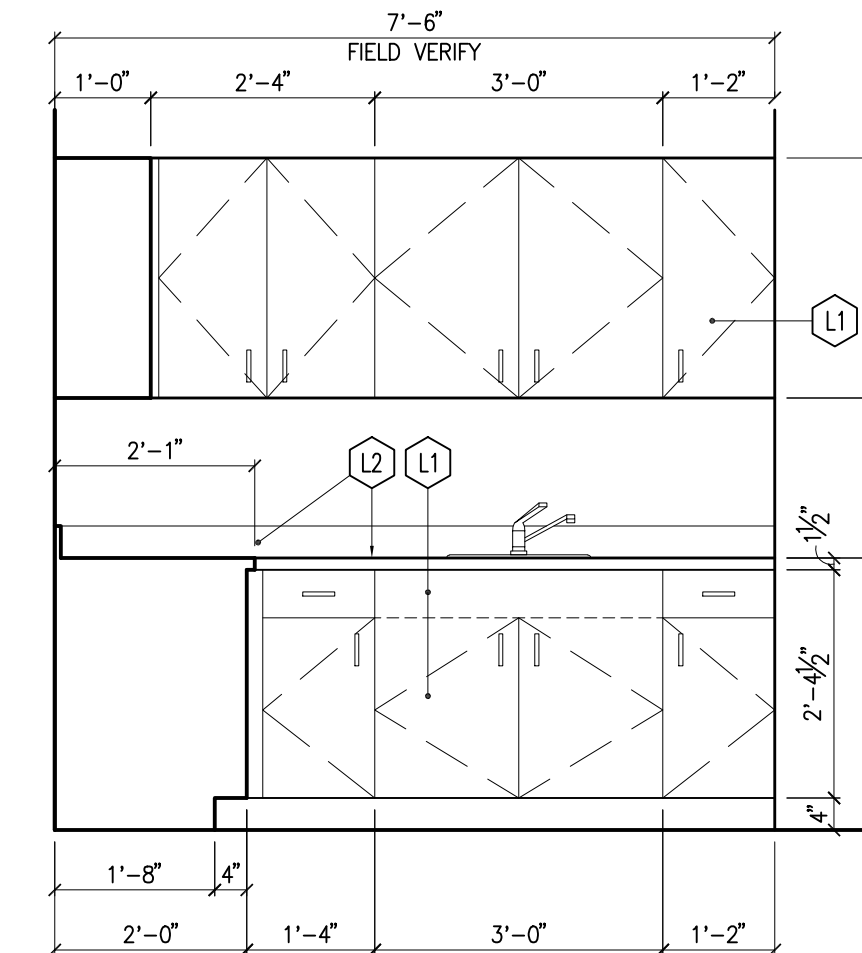
PAINT
P1 - SHERWIN WILLIAMS #SW 7050 - USEFUL GREY
P2 - SHERWIN WILLIAMS #SW 6965 - HIPPER BLUE
P3 - SHERWIN WILLIAMS #SW 6883 - RAUCOUS ORANGE
P4 - BENJAMIN MOORE #2062-30 - SNOW CONE GREEN

TILE
T1 - DALTILE VOLUME 1.0, AURAL SAND VL77 (12x24)

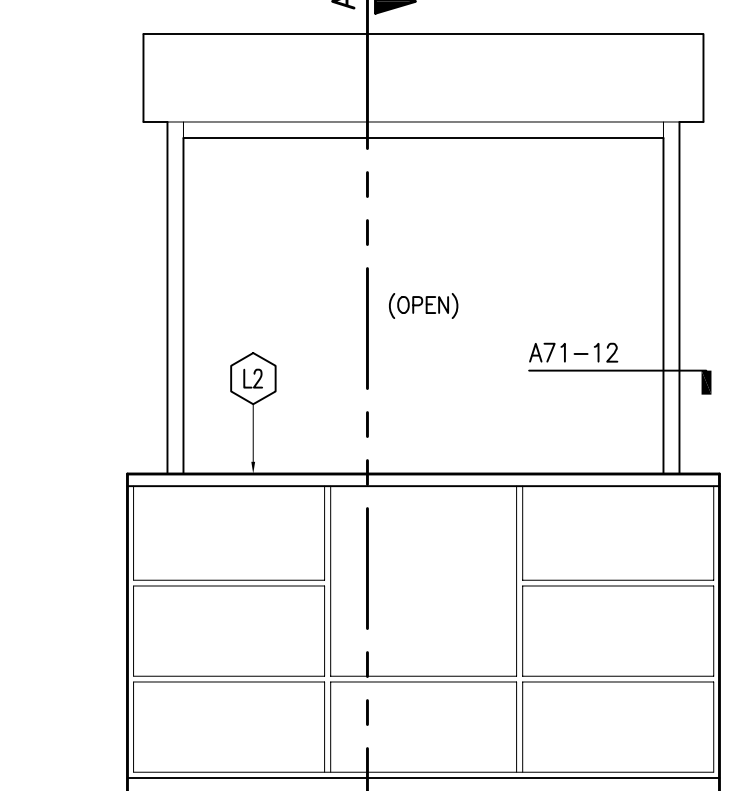
LAMINATE/WALL FINISHES
L1 - WILSONART, PORTICO TEAK #B210K-28
L2 - WILSONART, ORGANIC COTTON #4945-38
L3 - MARLITE, STANDARD FRP #P151 LIGHT GREY



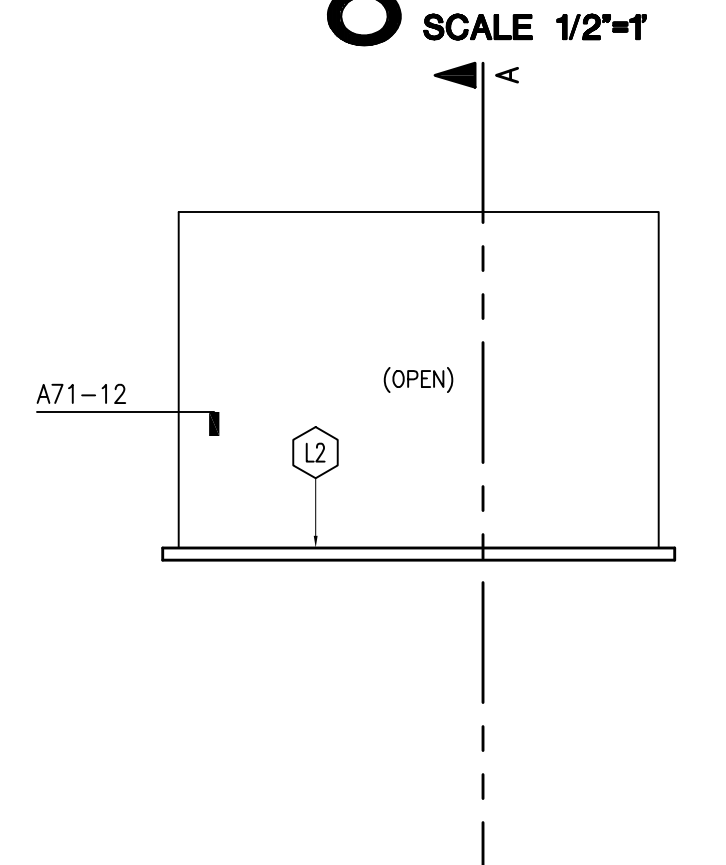
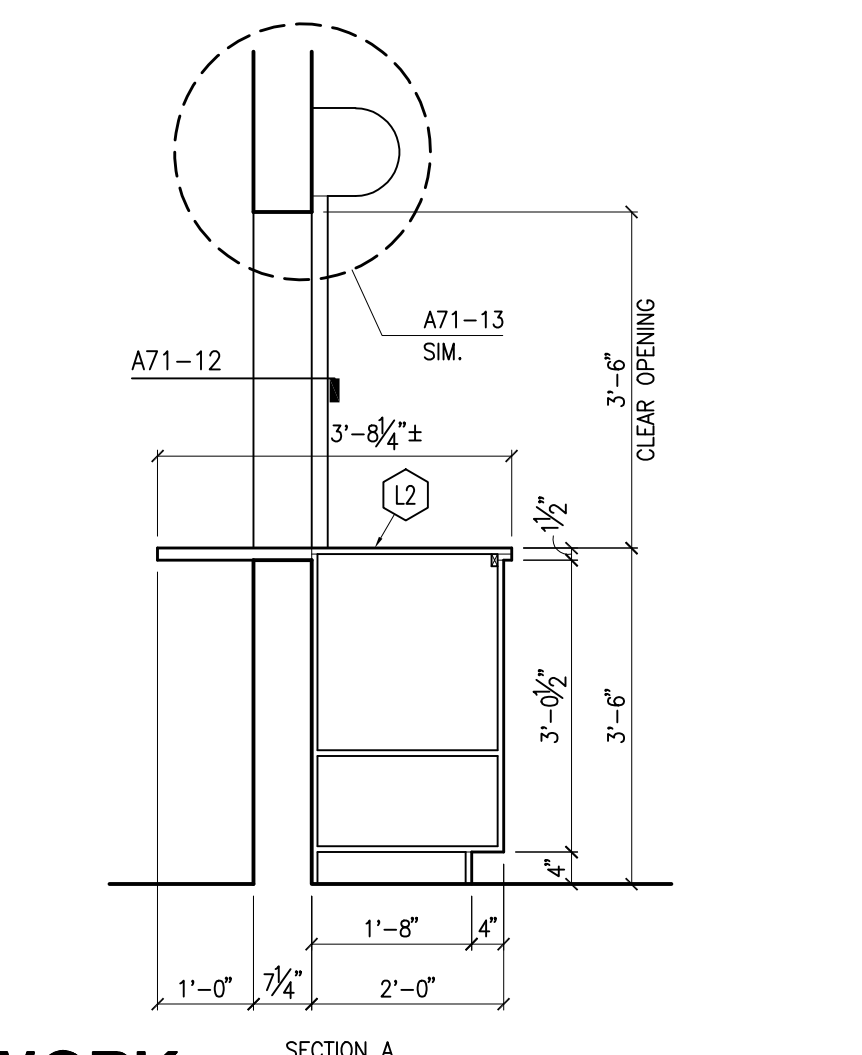
6 BREAK MILLWORK
SCALE 1/2"=1'



8 RESTROOM TILE
SCALE 1/2"=1'



7 SUPPLY COUNTER MILLWORK
SCALE 1/2"=1'



NOTE:
FURNISH AND INSTALL 'SCHLUTER QUADRA' TILE EDGE TRIM AT THE FOLLOWING LOCATIONS:
• OUTSIDE TILE CORNERS
• TOP OF TILE WANSKOOT
• TOP OF TILE BASE

FINISHES/MATERIALS

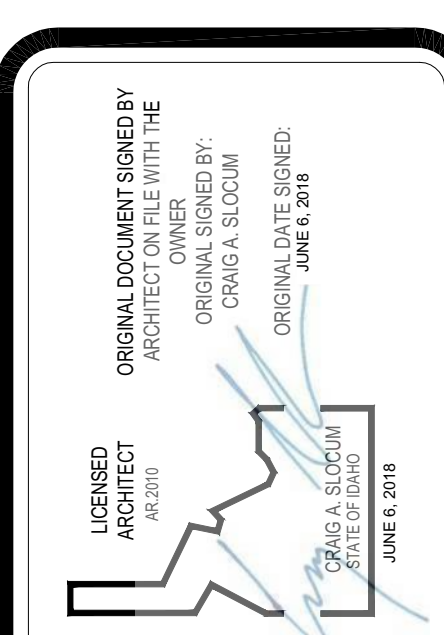
REFER TO "SCHEDULE OF INTERIOR MATERIALS AND FINISHES" ON THIS SHEET.

GENERAL NOTES:

- FINISHES NOT REQUIRED ON WALL AREAS CONCEALED BY PERMANENT FIXTURES. FINISHES SHALL EXTEND A MINIMUM OF 6" BEHIND FIXTURE.
- ALL GYPSUM BOARD APPLICATIONS SHALL BE TAPED.
- PAINT ALL INTERIOR GYPSUM BOARD SOFFITS AND BOTTOM AND BACKSIDES OF SUSPENDED WALLS.

SHEET NOTES:

- FIXTURE OR EQUIPMENT.
- SECOND FLOOR CONCRETE STRUCTURE.
- EXISTING CONCRETE COLUMN.
- EXISTING CONCRETE BEAM.
- LINE OF EXISTING CONCRETE COLUMNS AND BEAMS IN FOREGROUND.
- STAND UP WORK COUNTER, RE: A71-16.
- R-11 BATT INSULATION.
- MILLWORK, RE: A61-6 AND A61-7.
- TRANSFER GRILLE, RE: MECH.
- POWDER COAT 4 EXISTING PART STORAGE RACKS WITH COLOR TO MATCH 'P2' PRIOR TO FINAL PLACEMENT.
- DUCT, RE: MECH.



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6/25/18

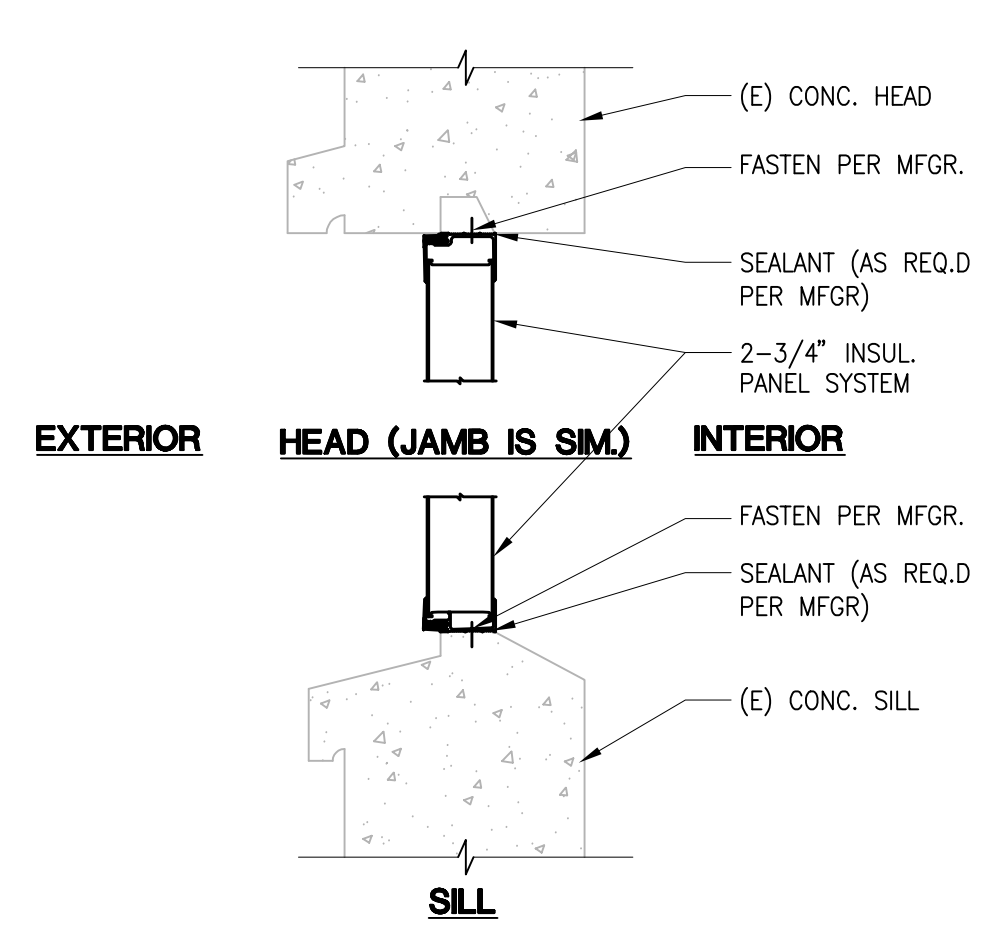
PROJECT: 18059.00 DATE: 5-2-18
DRAWN: JT CHECKED: CAS
REVISIONS:
1 ADDENDUM NO. ONE 05-15-18
2 ADDENDUM NO. THREE 05-24-18

CSHOA

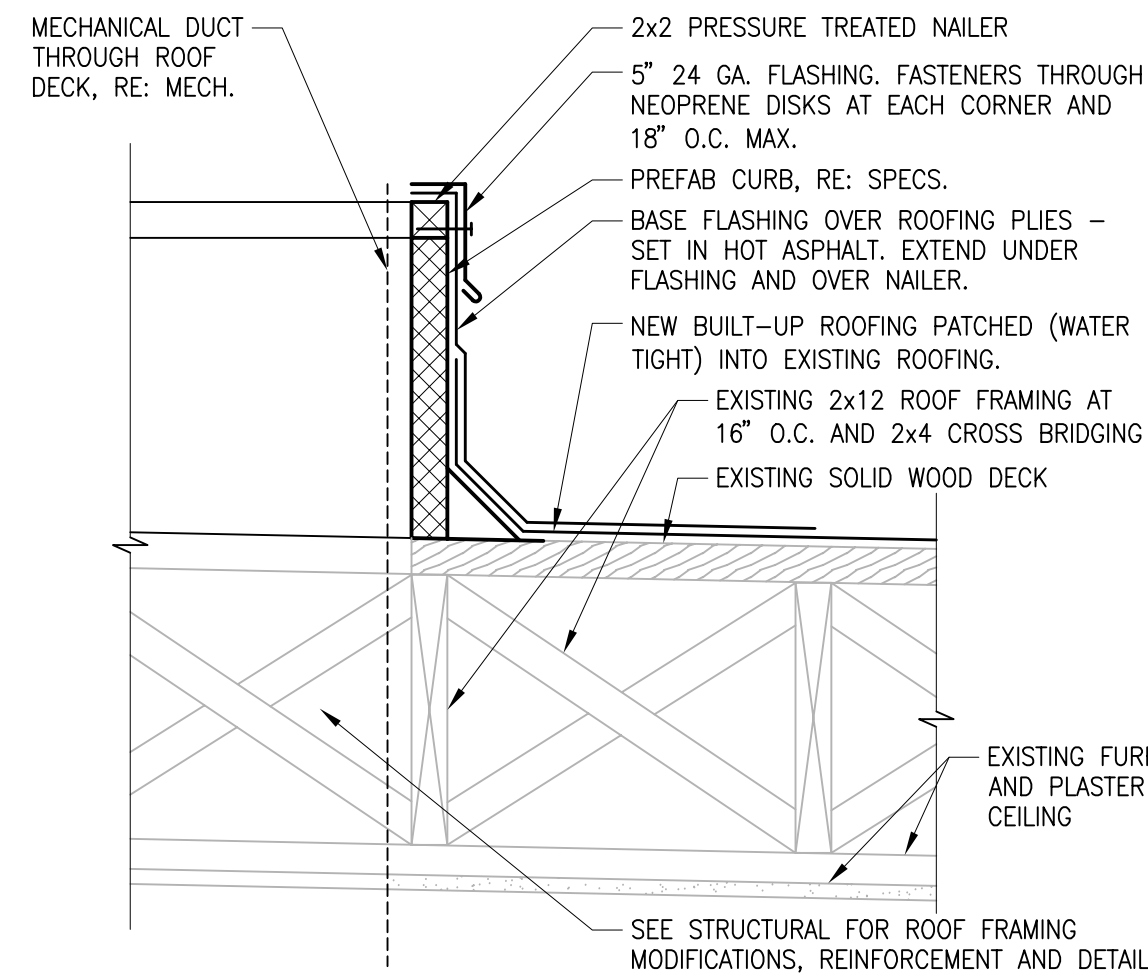
INTERIOR ELEVATIONS

SHEET TITLE: **INTERIOR ELEVATIONS**
SHEET: **A61**

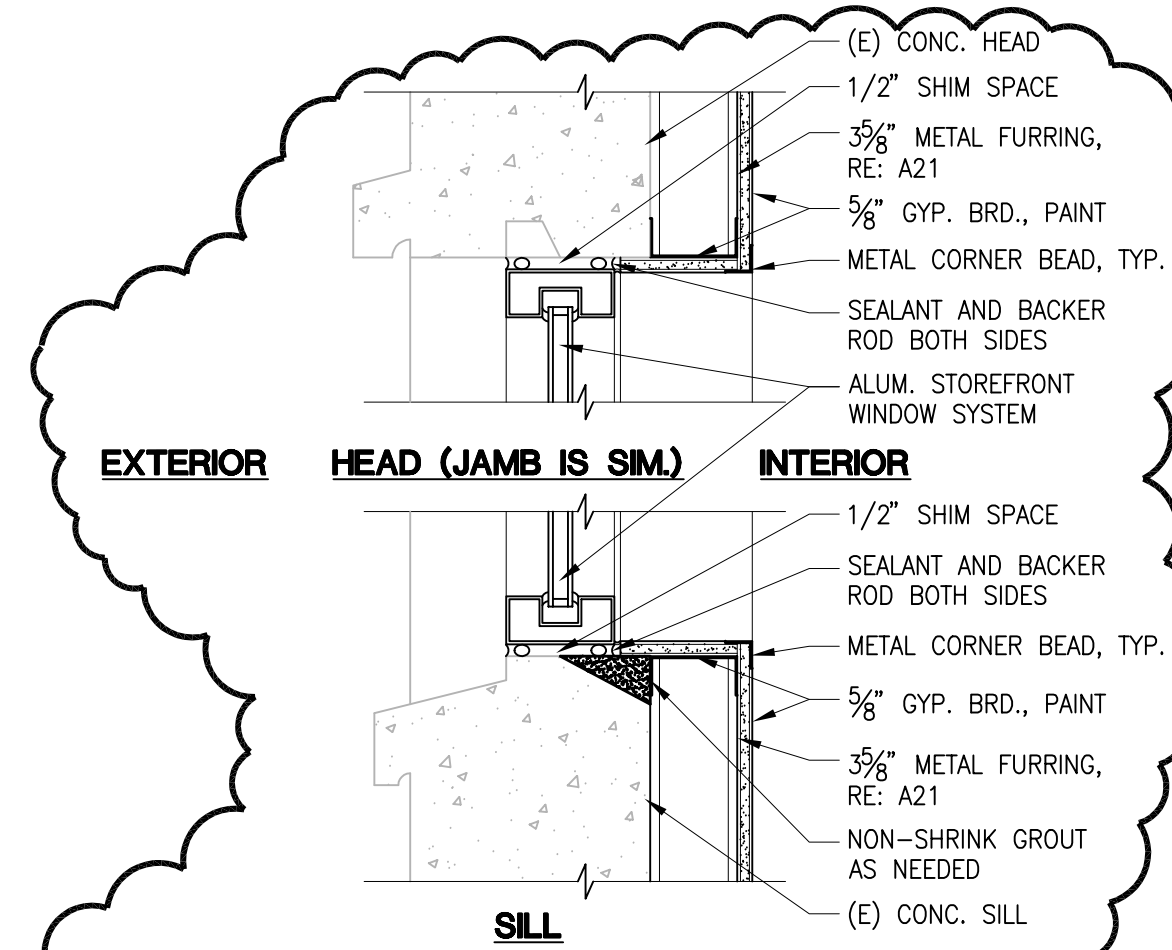
ORIGINAL SHEET SIZE: 30" x 42"



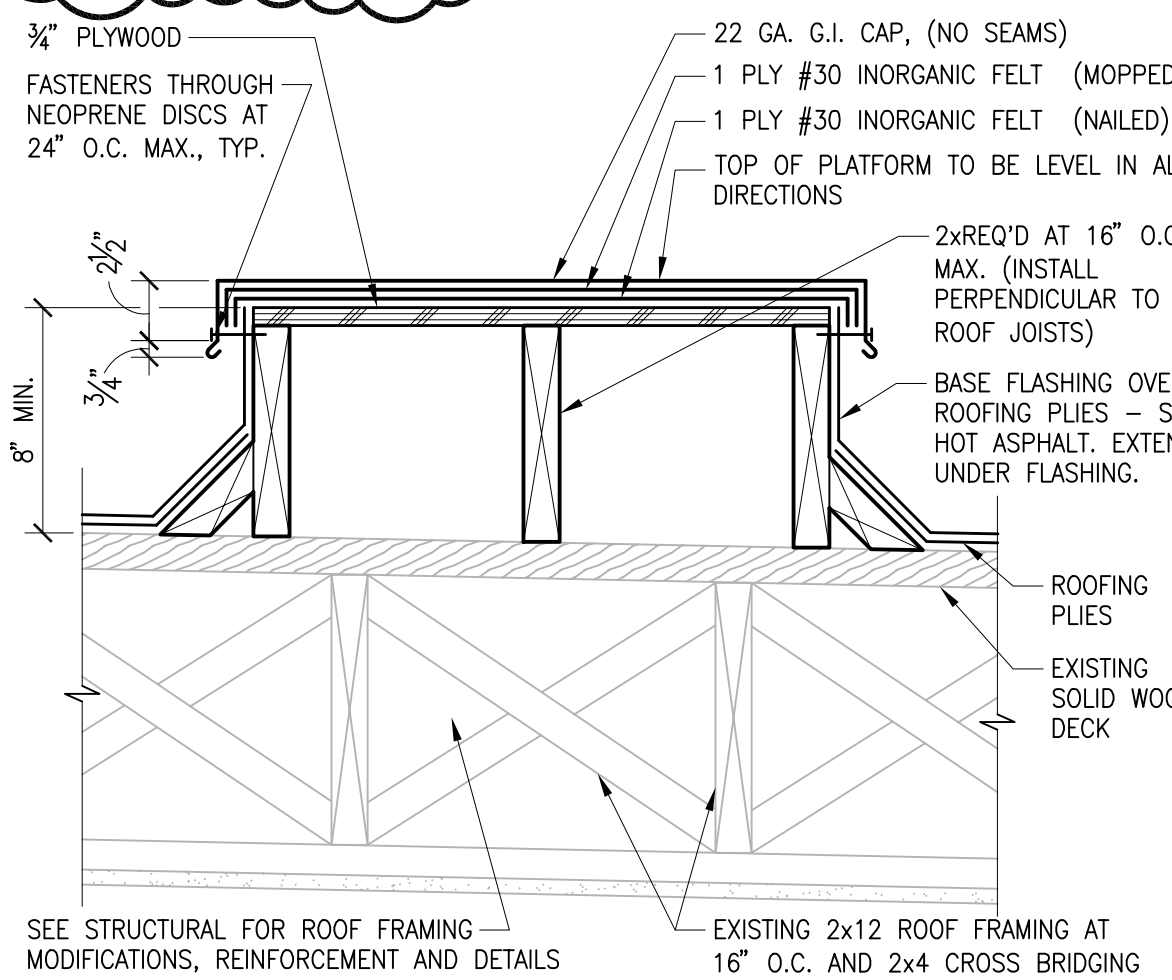
1 INSUL. PANEL SYSTEM AT UNFINISHED ROOMS
SCALE 1 1/2" = 1'-0"



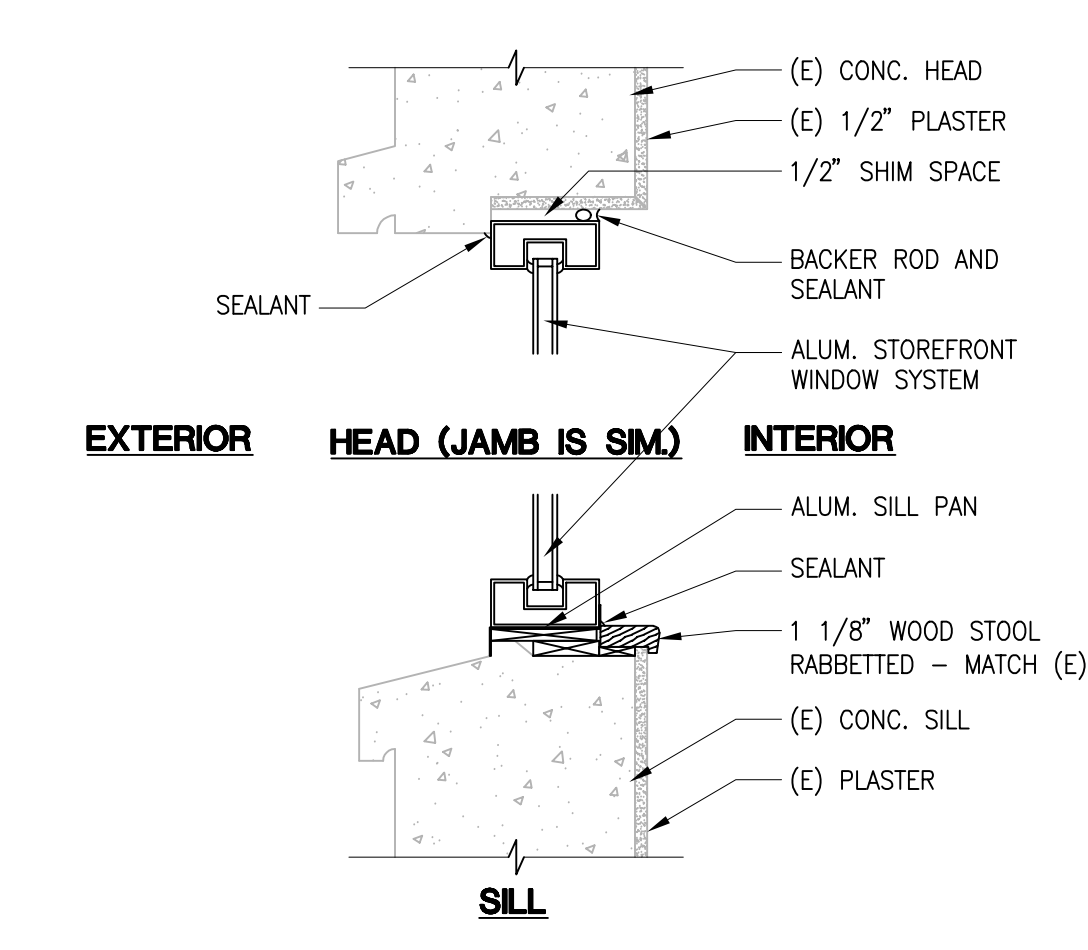
7 PREFABRICATED ROOF CURB
SCALE 1 1/2" = 1'-0"



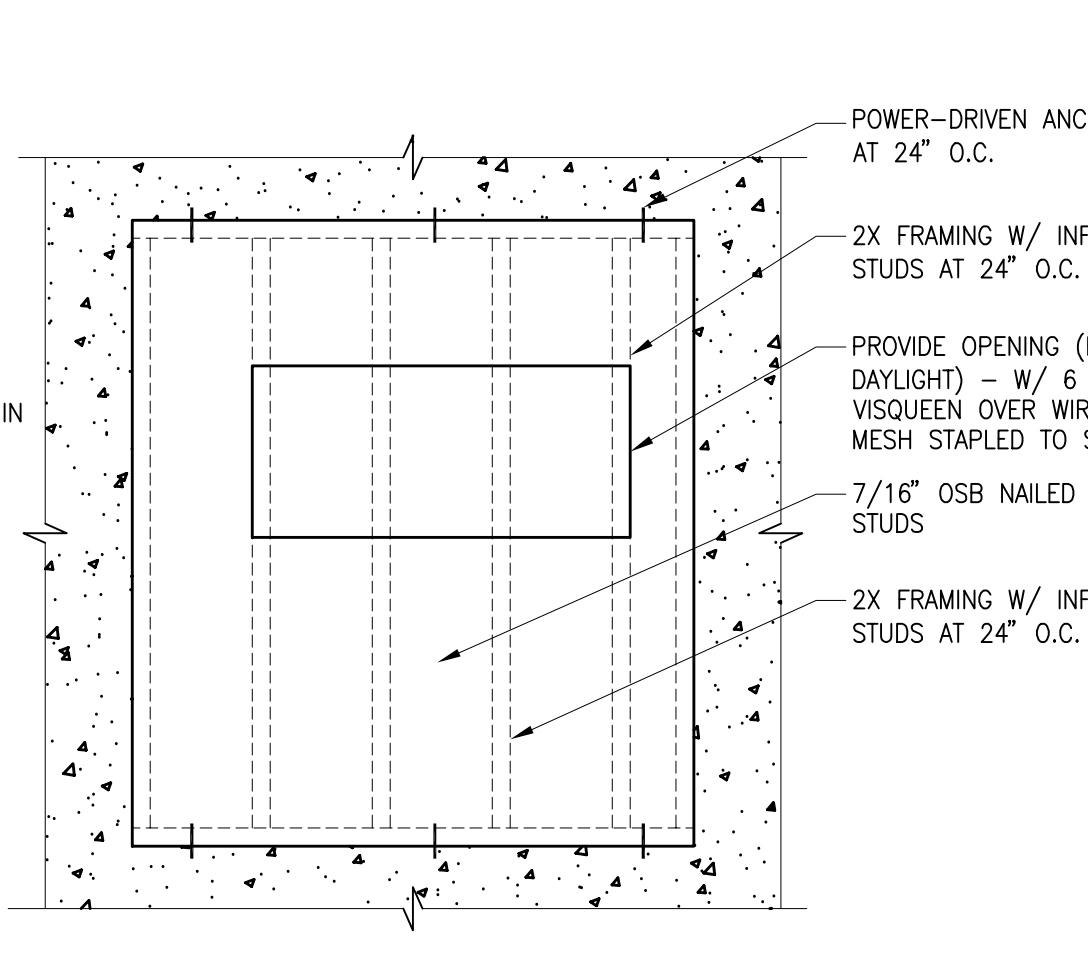
2 ALUM STOREFRONT
SCALE 1 1/2" = 1'-0"



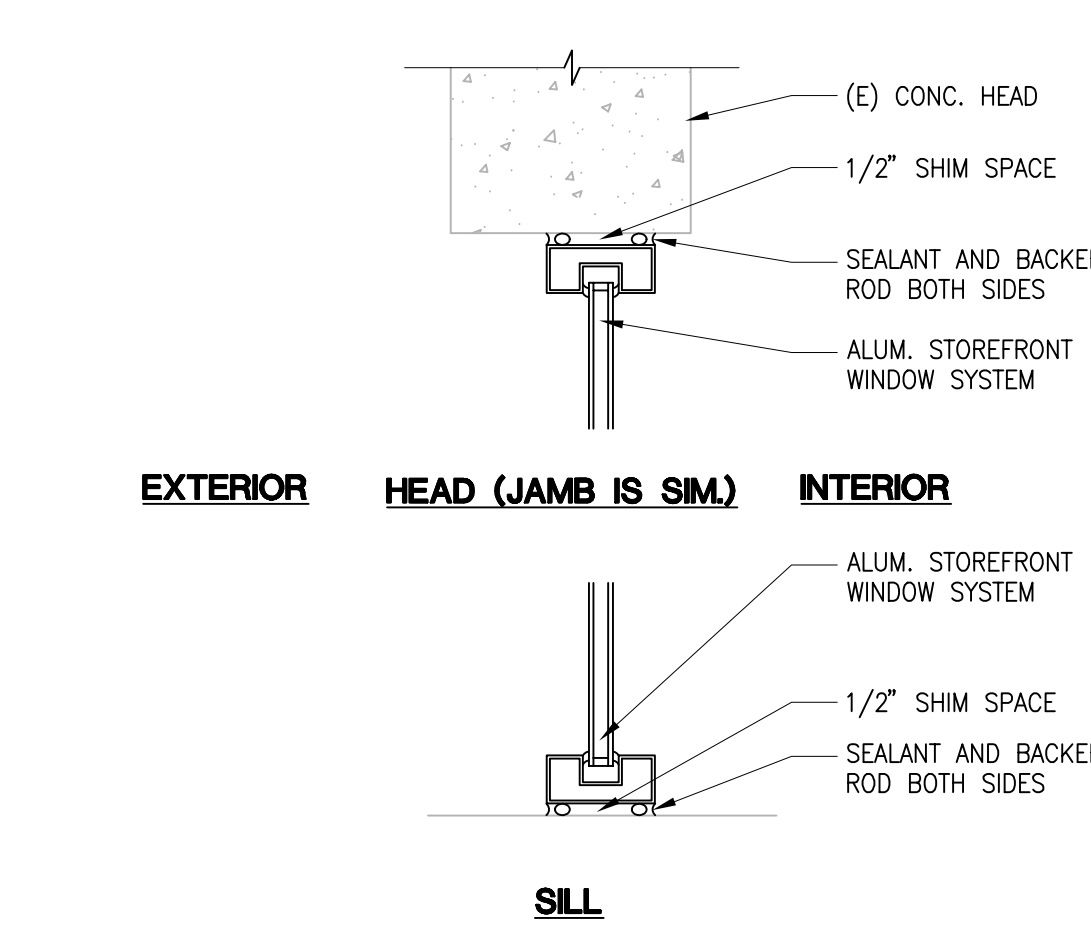
8 EQUIPMENT PLATFORM
SCALE 1 1/2" = 1'-0"



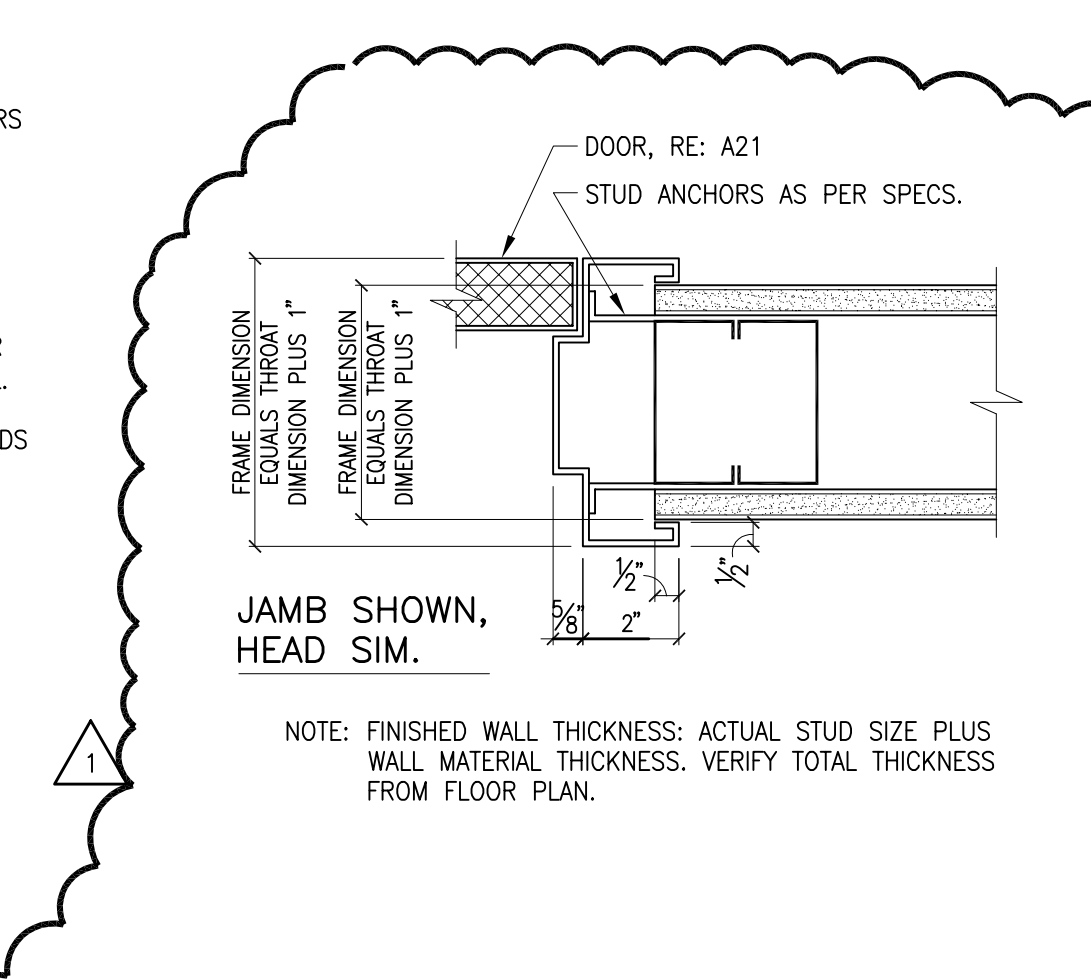
3 ALUM STOREFRONT AT FINISHED ROOMS
SCALE 1 1/2" = 1'-0"



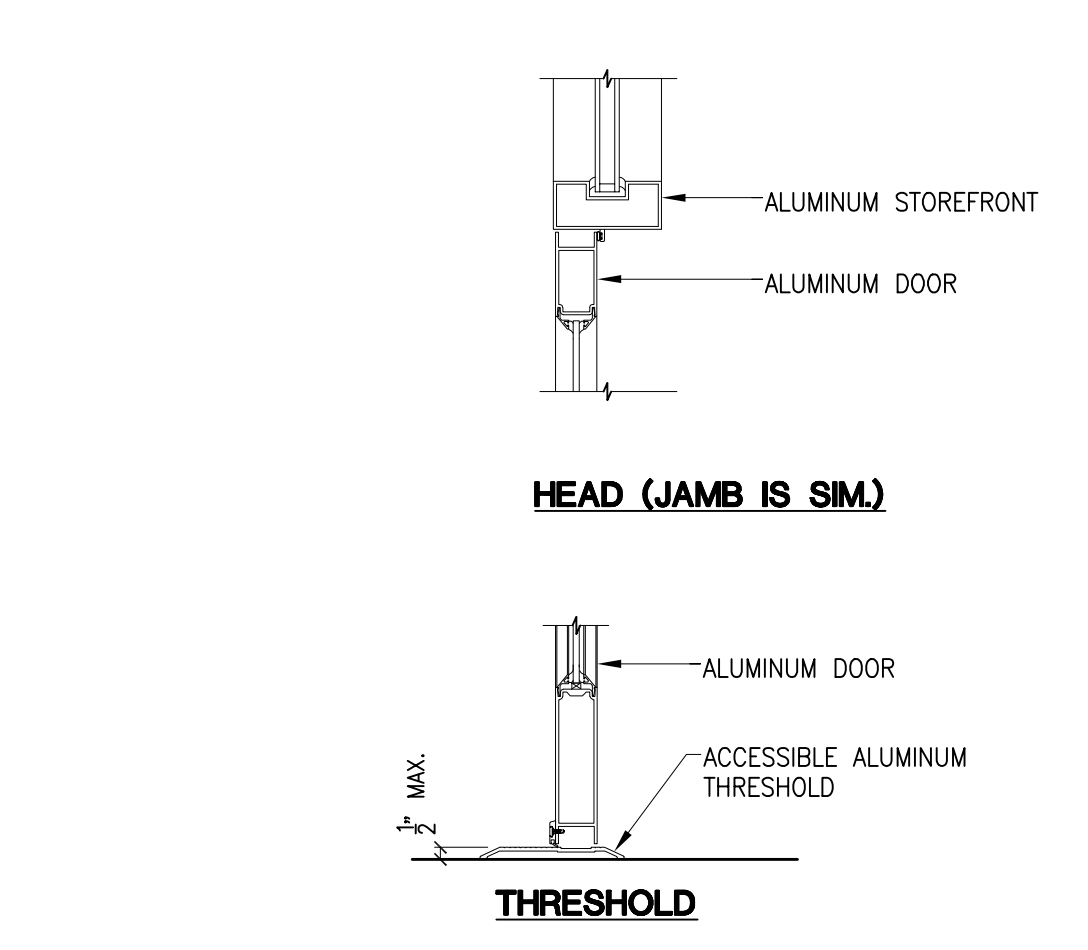
9 TEMP. OPENING INFILL
SCALE N.T.S.



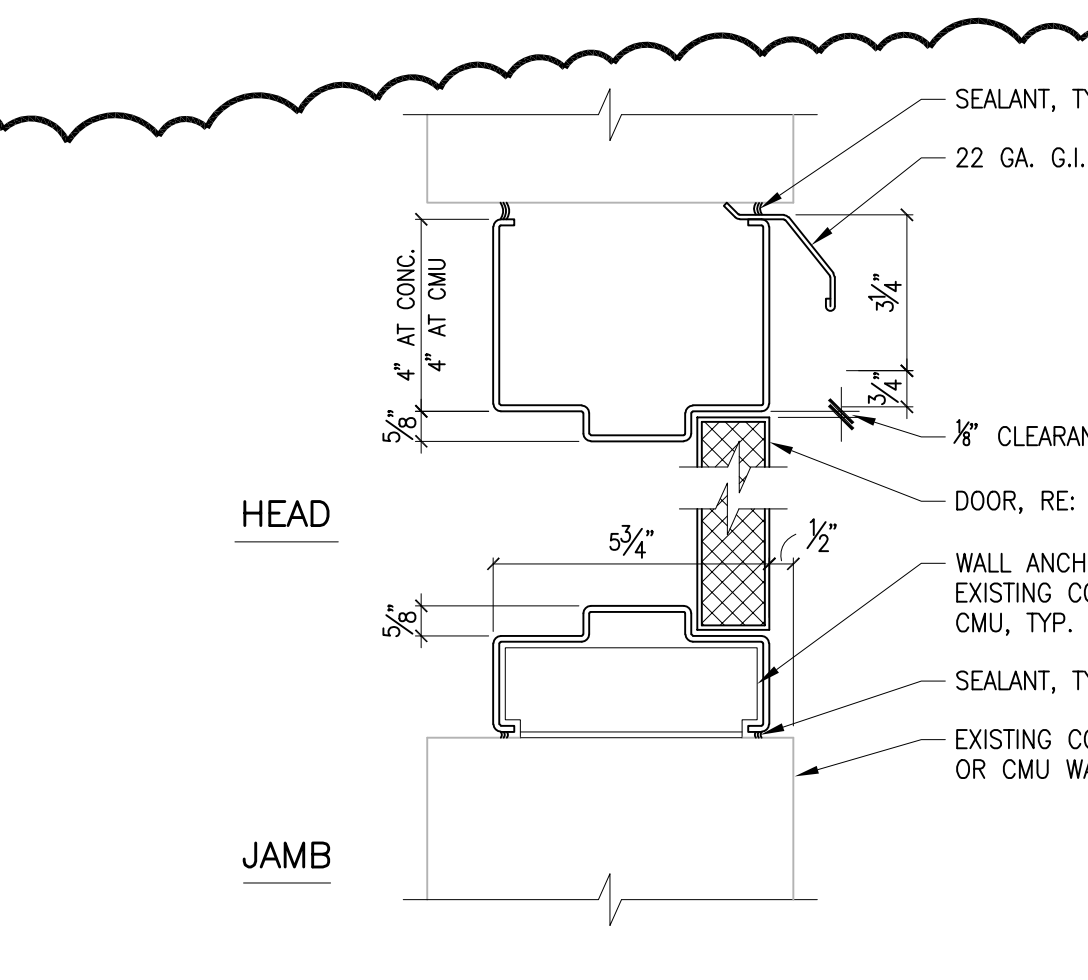
4 ALUM STOREFRONT IN CONC. WALL
SCALE 1 1/2" = 1'-0"



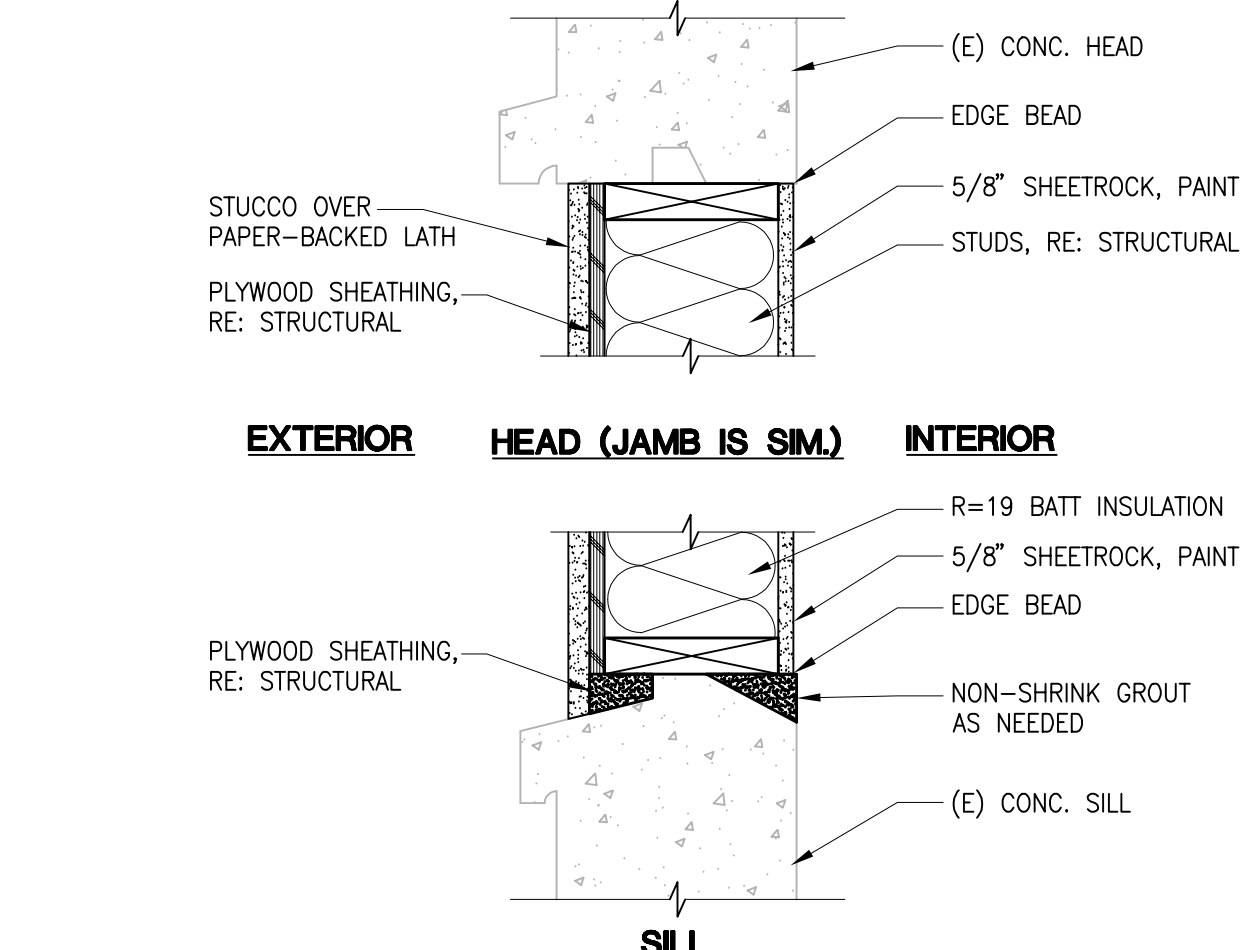
10 HM FRAME - DRYWALL
SCALE 3" = 1'-0"



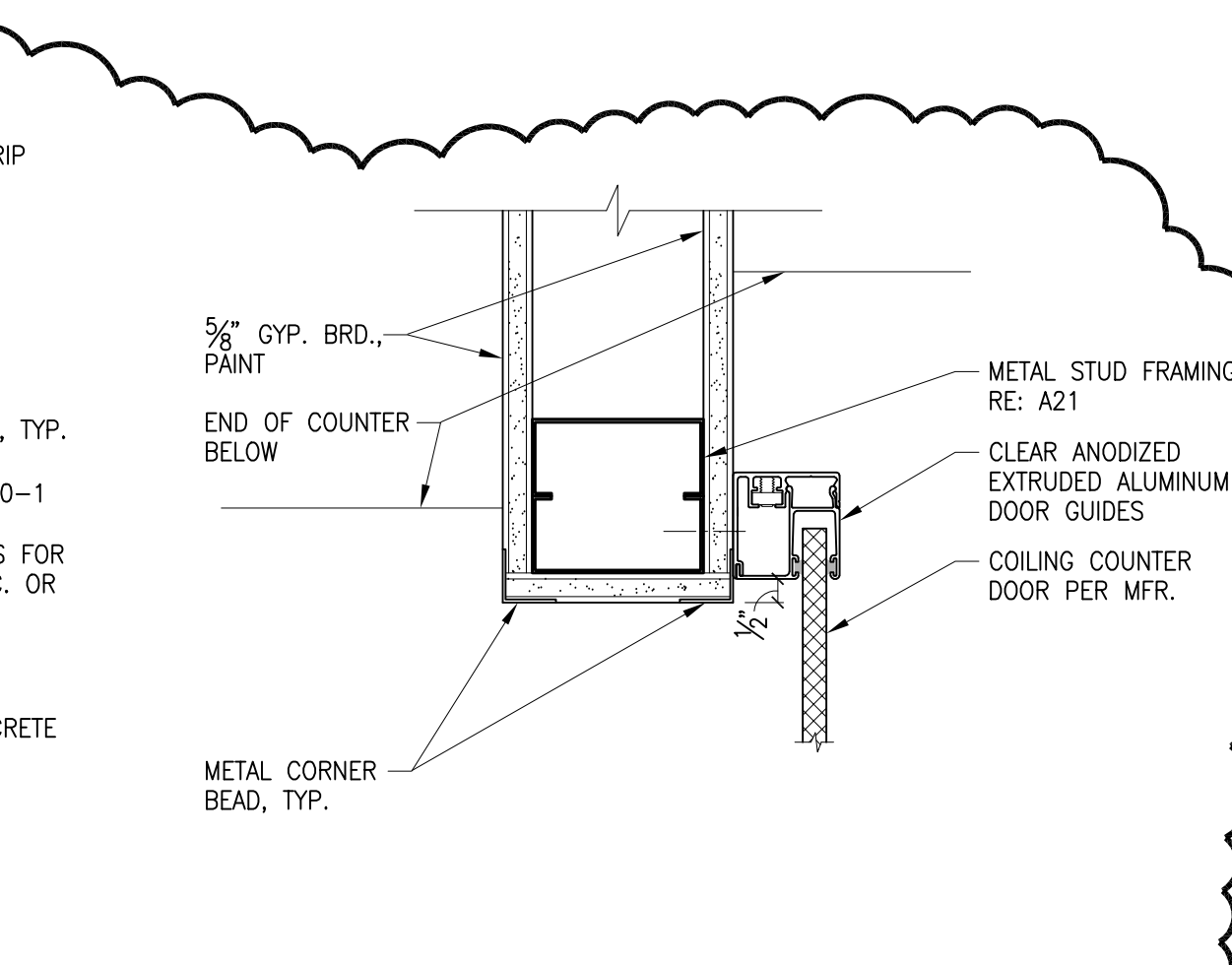
5 ALUM STOREFRONT DOOR
SCALE 1 1/2" = 1'-0"



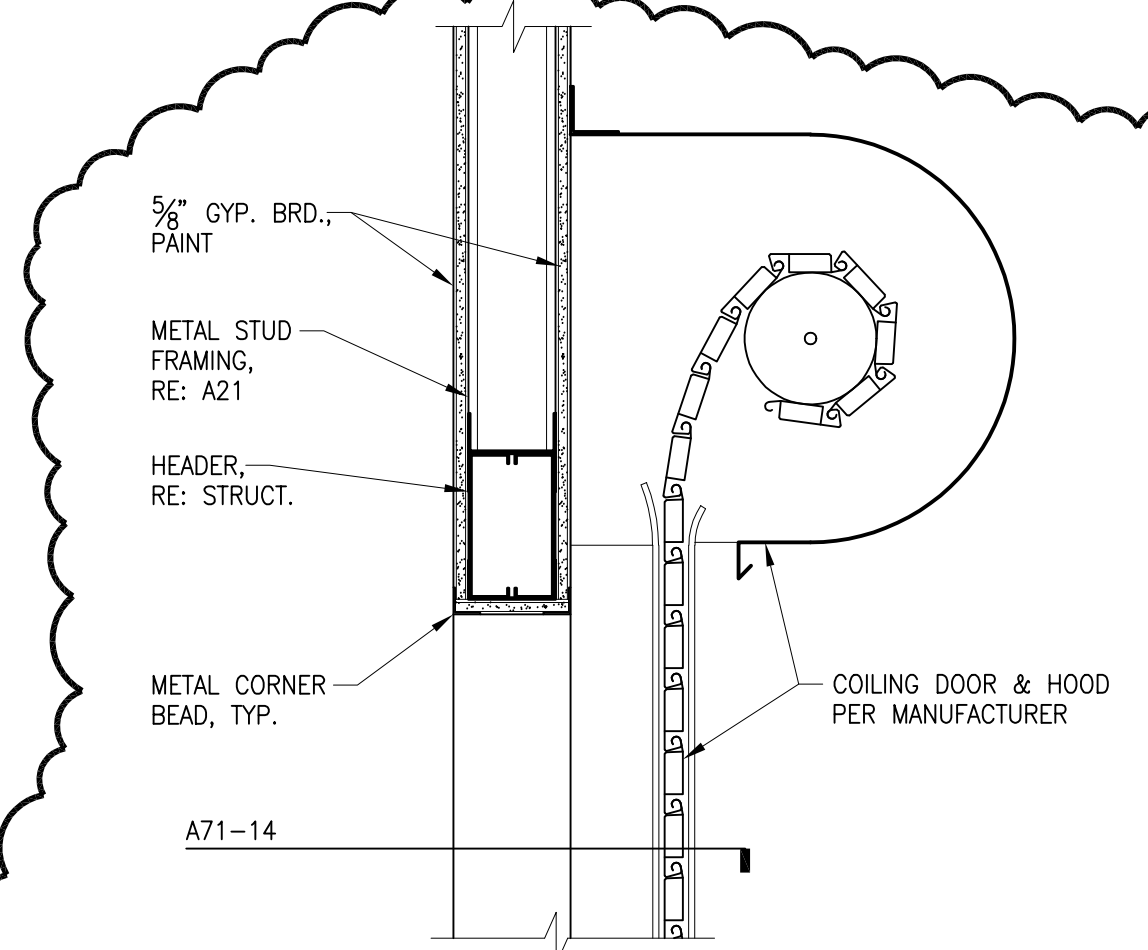
11 HM FRAME - CMU
SCALE 3" = 1'-0"



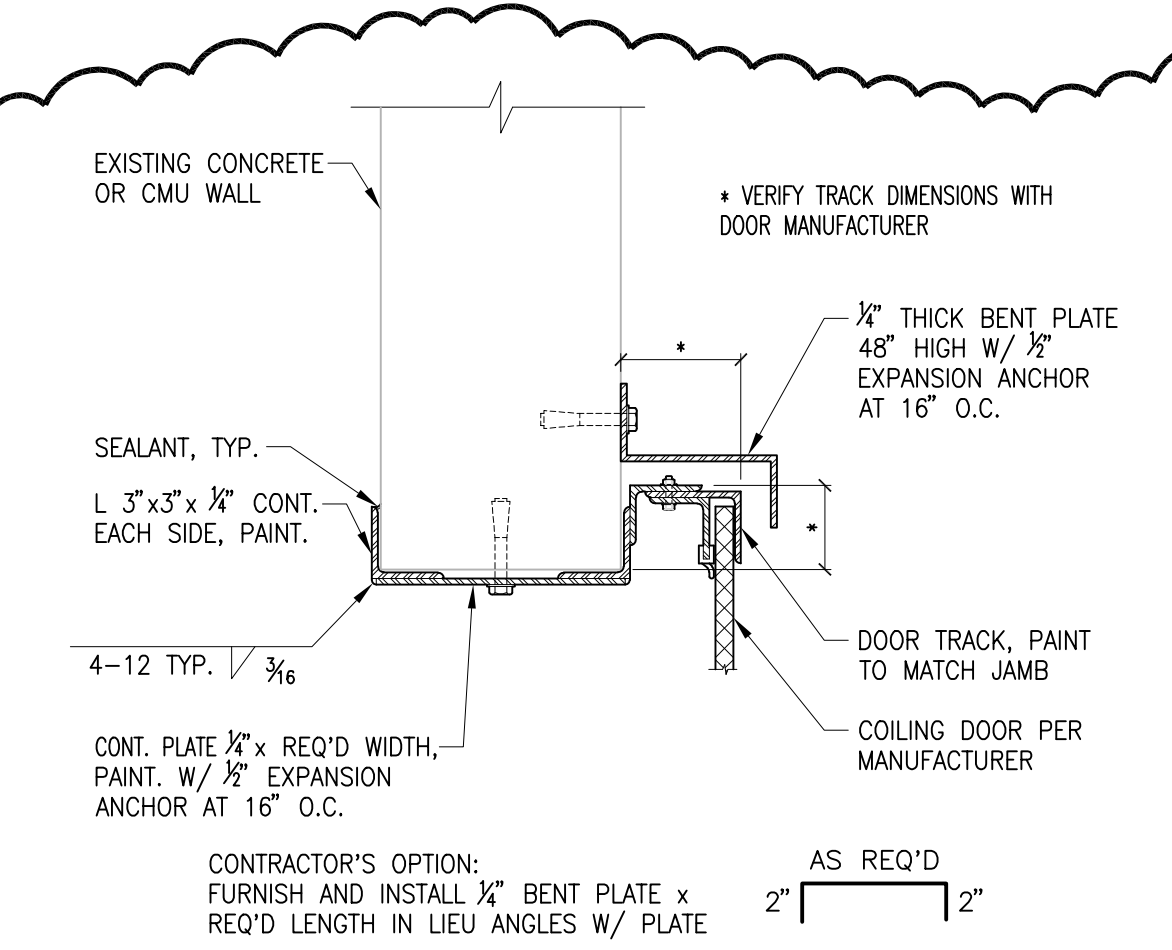
6 WALL FILL @ (E) OPENING
SCALE 1 1/2" = 1'-0"



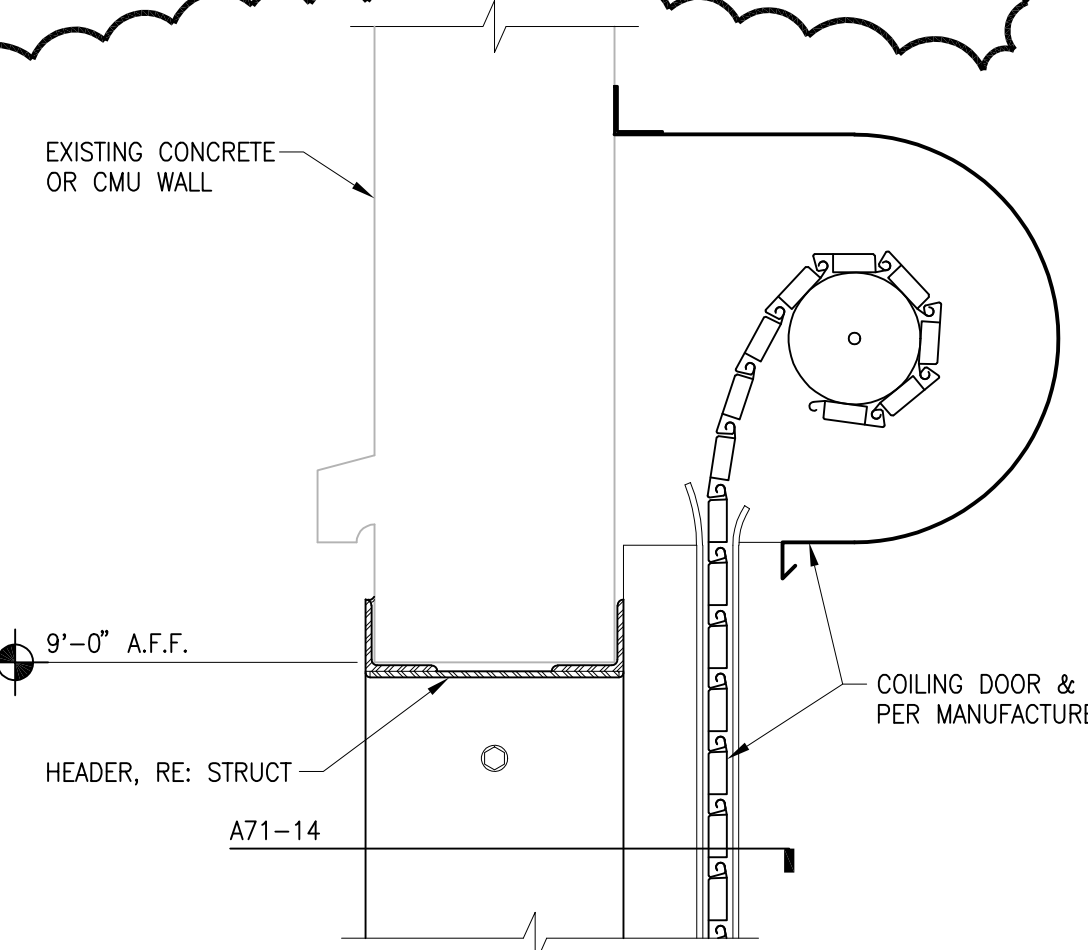
12 COILING COUNTER DOOR
SCALE 3" = 1'-0"



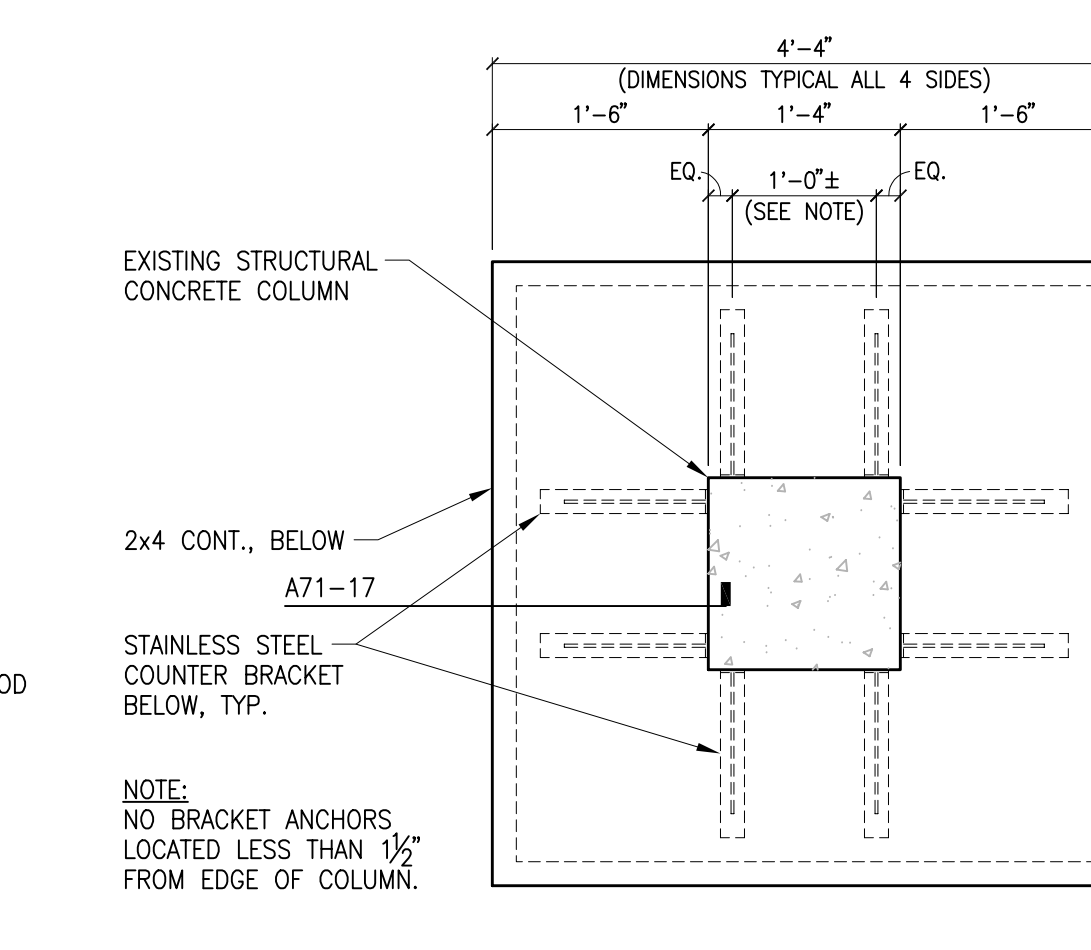
13 COILING DOOR HEAD
SCALE 1 1/2" = 1'-0"



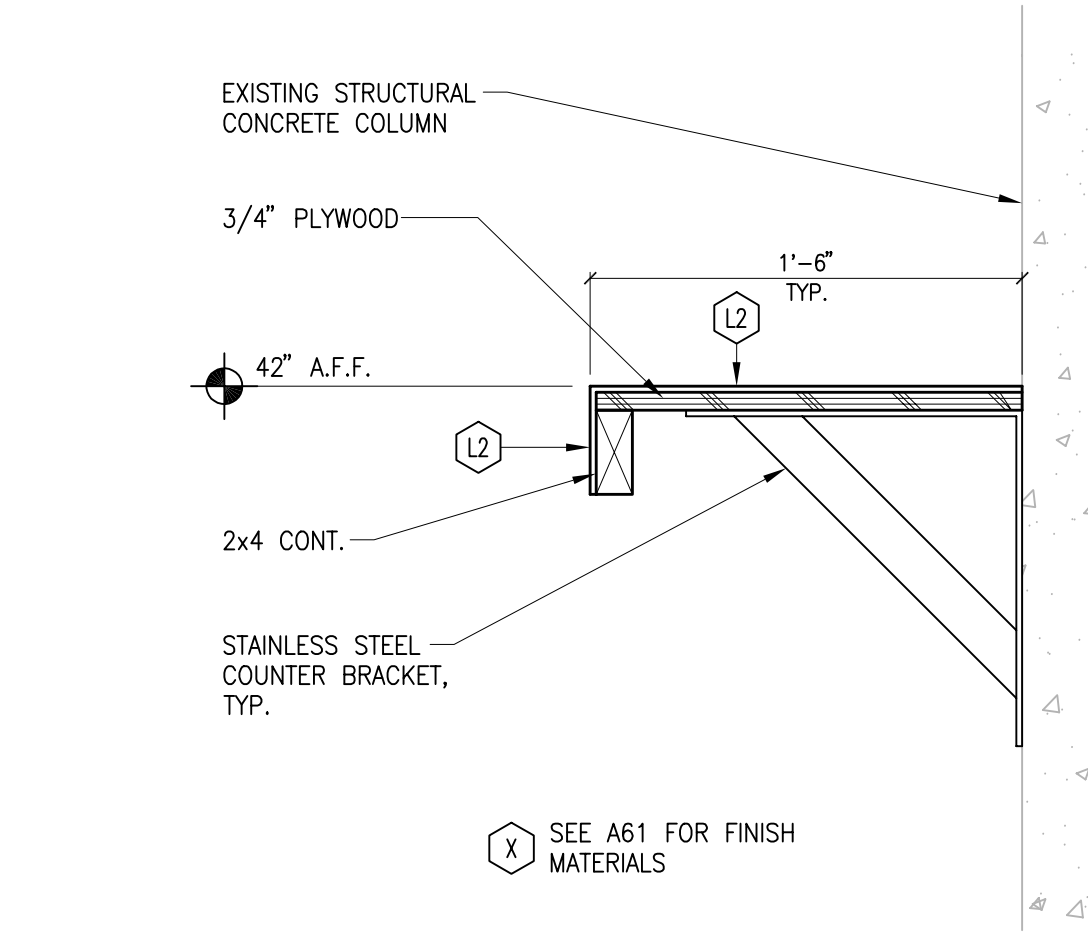
14 COILING DOOR JAMB
SCALE 1 1/2" = 1'-0"



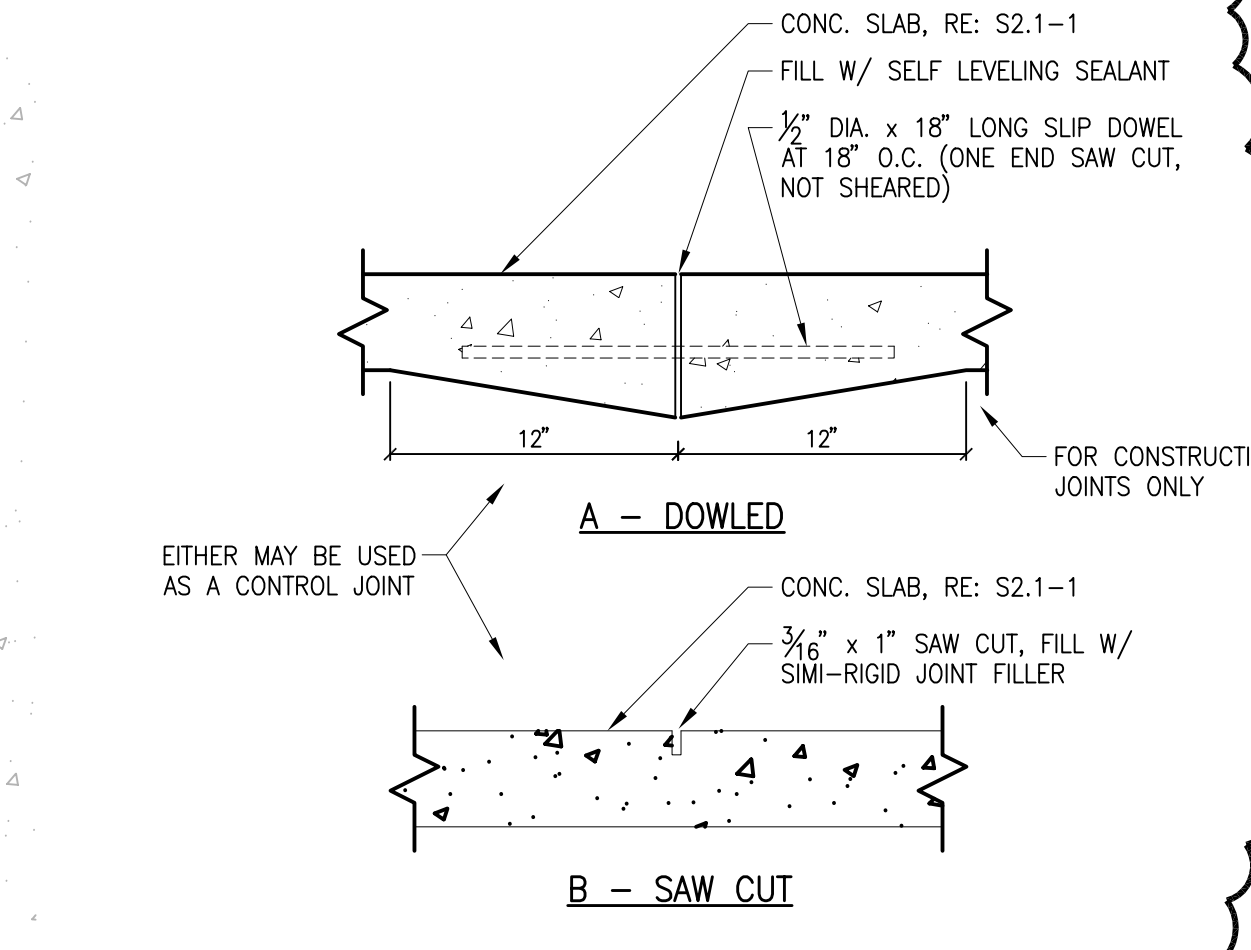
15 COILING DOOR HEAD
SCALE 1 1/2" = 1'-0"



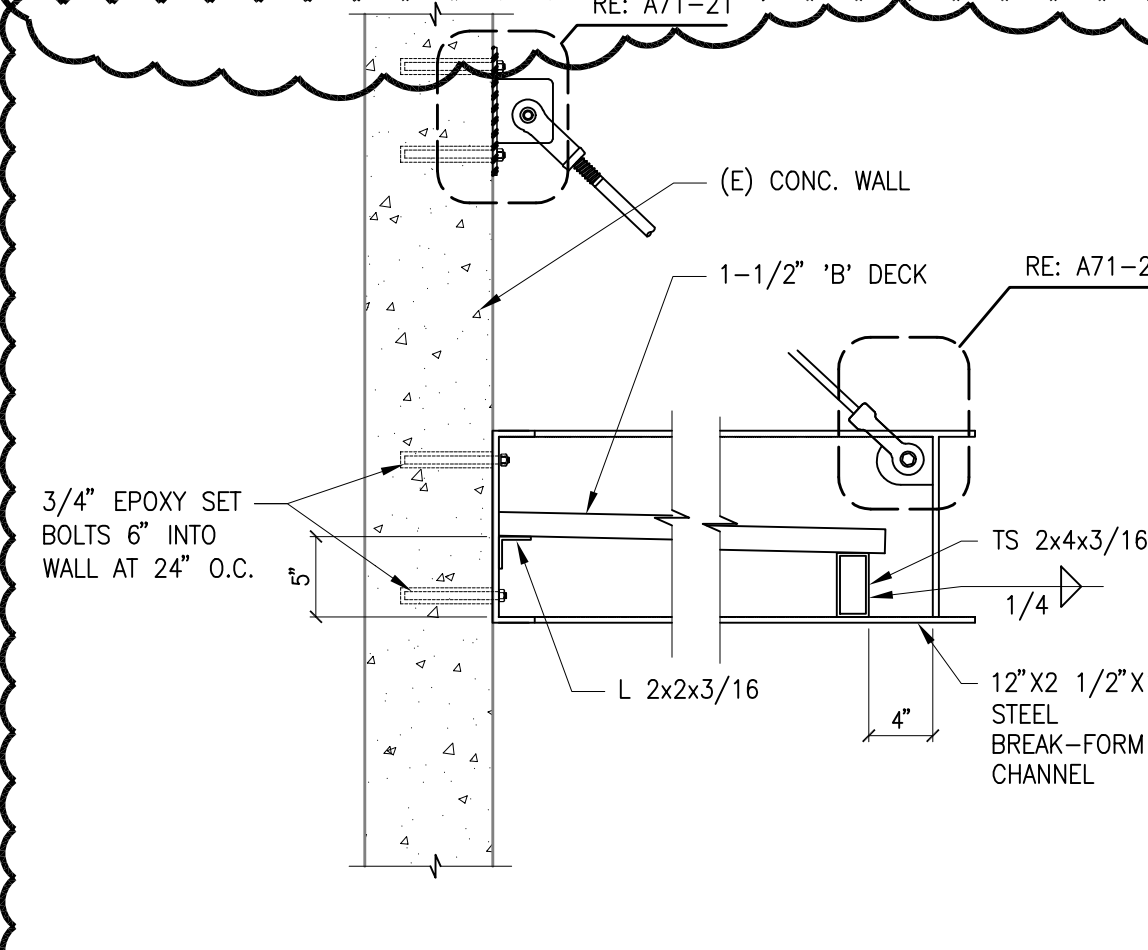
16 STAND UP WORK COUNTER
SCALE 3/4\" = 1'-0"



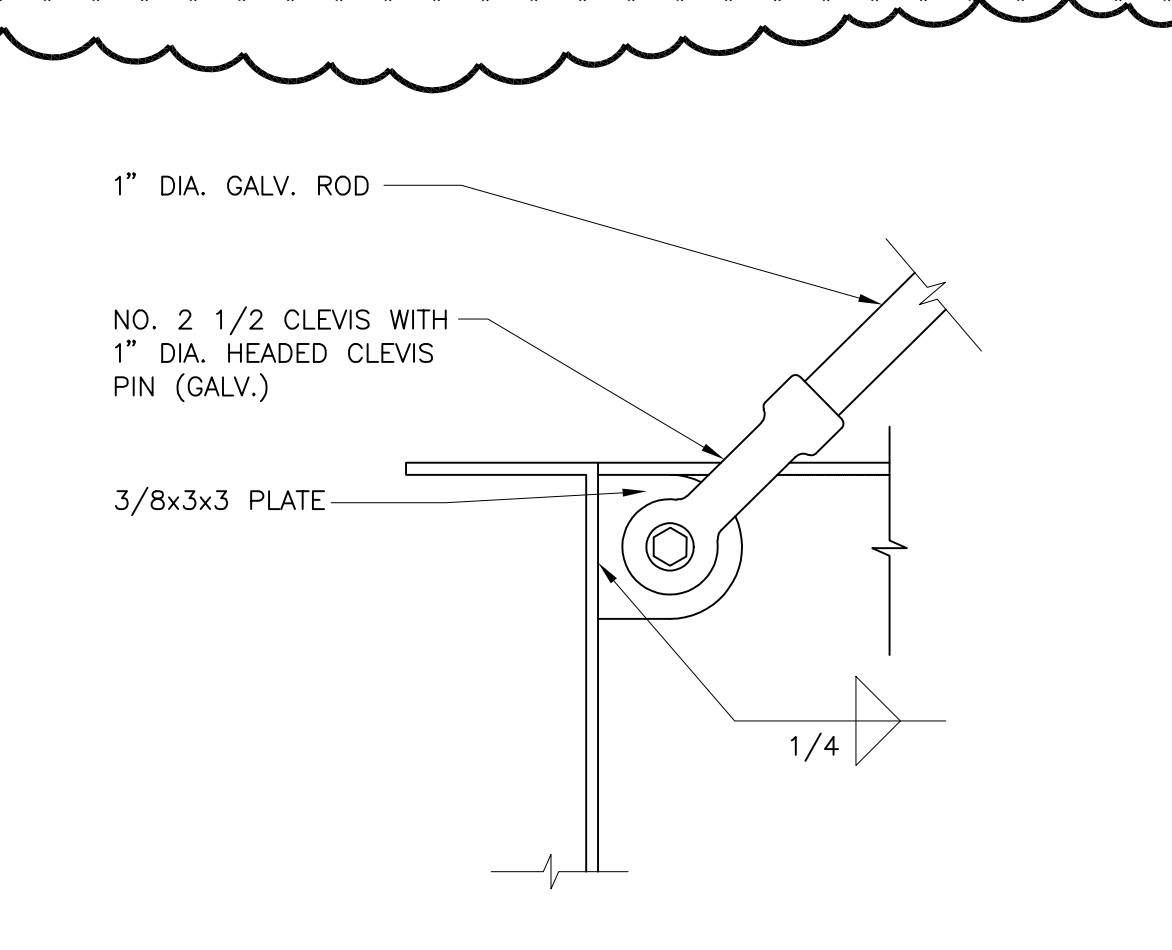
17 STAND UP WORK COUNTER
SCALE 1 1/2" = 1'-0"



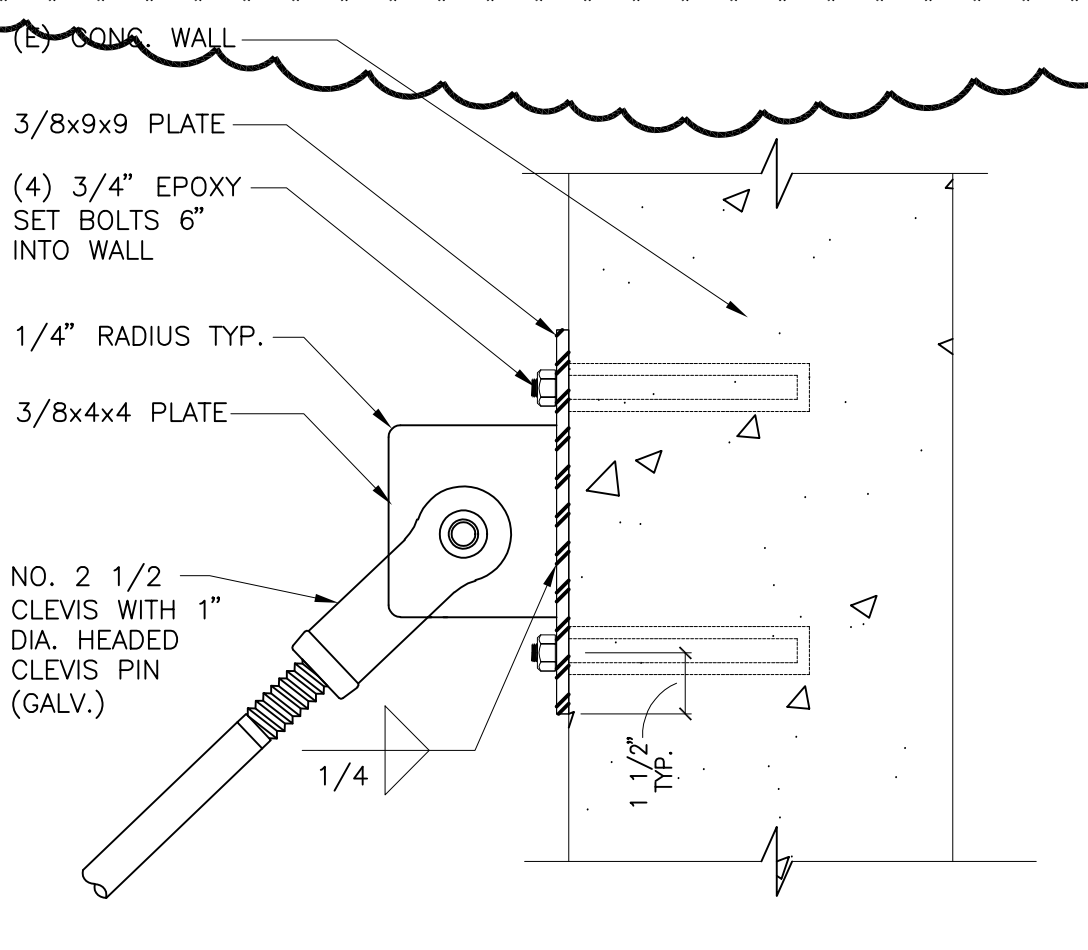
18 CONCRETE SLAB JOINTS
SCALE 1 1/2" = 1'-0"



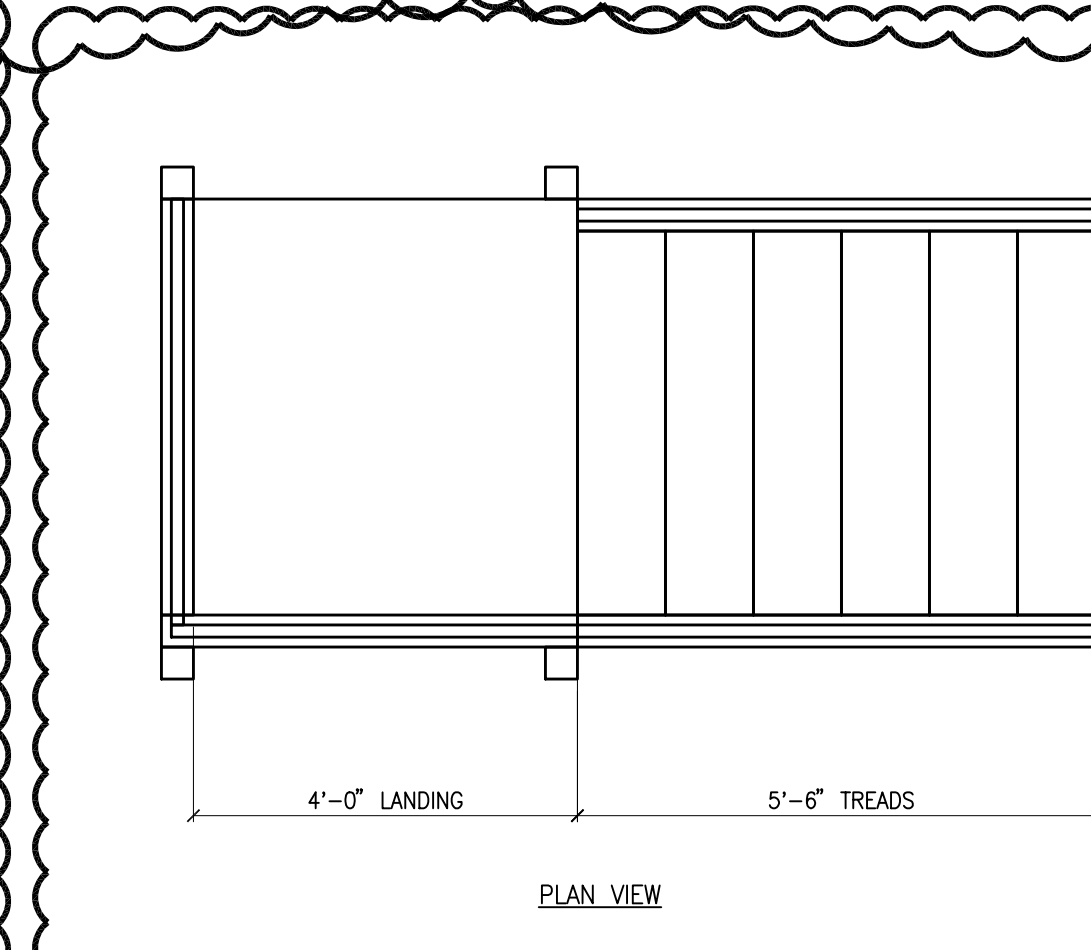
19 AWNING DETAIL
SCALE 1\" = 1'-0"



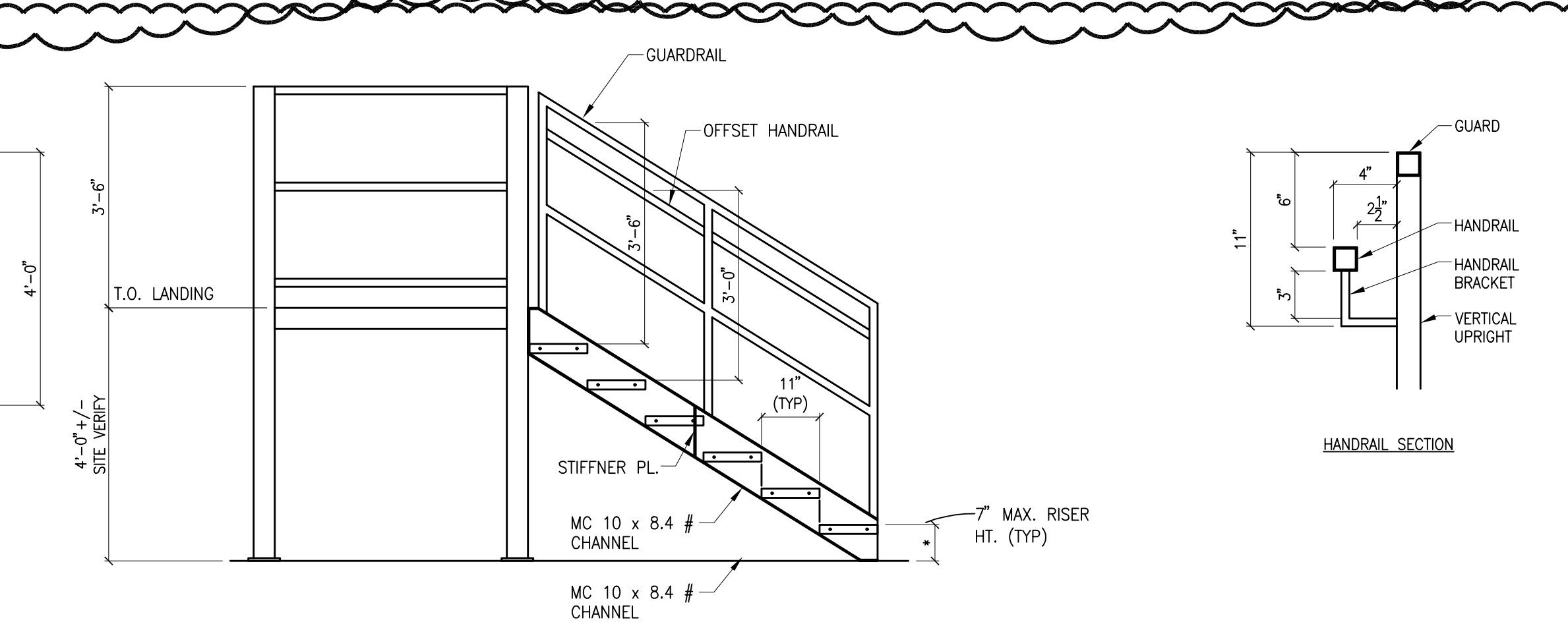
20 PLATE CONNECTION
SCALE 3\" = 1'-0"



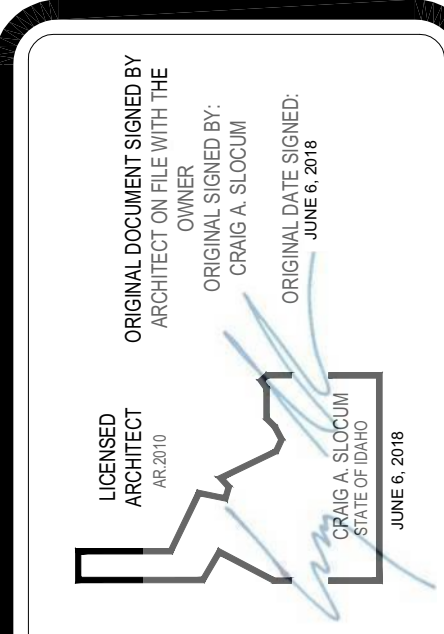
21 CANOPY TOP CONNECTION
SCALE 3\" = 1'-0"



22 METAL STAIRS
SCALE 1/2\" = 1'-0"



ELEVATION



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6/25/18**

PROJECT 18059.00 DATE 5-2-18
DRAWN LGB CHECKED CAS
REVISIONS:
1 ADDENDUM NO. ONE 05-15-18
2 ADDENDUM NO. THREE 05-24-18
4 ADDENDUM NO. FIVE 06-06-18

SHEET TITLE
DETAILS
SHEET

A71
ORIGINAL SHEET SIZE
30" x 42"



DOOR SCHEDULE

CONTRACTOR TO SITE-VERIFY EXISTING DOOR SIZES.

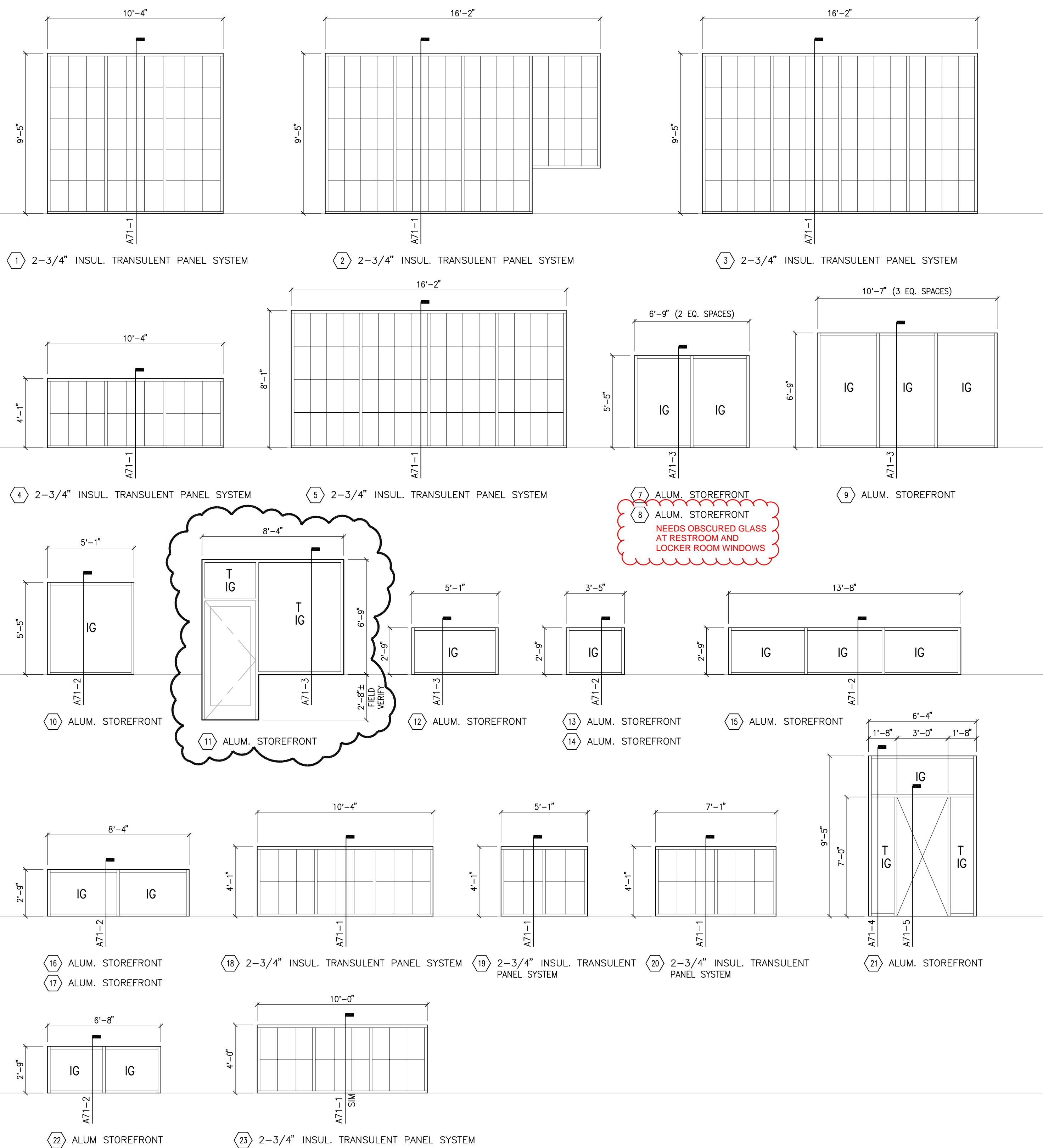
DOOR NO./TYPE	FIRE RATING	DOOR SIZE			FRAME	DOOR HARDWARE GROUP	REMARKS
		WIDTH	HT.	THICKNESS			
A	-	16'-4"	14'-1"	1 3/4"	-	-	2, 3, 4
B	-	16'-4"	14'-1"	1 3/4"	-	-	2, 3, 4
C	-	16'-4"	14'-1"	1 3/4"	-	-	2, 3, 4
D	-	16'-4"	14'-1"	1 3/4"	-	-	2, 3, 4
E	-	11'-9"	14'-1"	1 3/4"	-	-	2, 3, 4
F	-	11'-9"	14'-1"	1 3/4"	-	-	2, 3, 4
G	-	-	-	-	-	-	NOT USED
H	-	10'-2"	12'-1"	1 3/4"	-	-	2, 5
I-1	-	3'-0"	7'-0"	1 3/4"	(E)	-	1
I-2	-	3'-0"	7'-0"	1 3/4"	(E)	1	7
I-3	90 MIN.	3'-0"	7'-0"	1 3/4"	H.M.	7	7, 8
J	-	3'-0"	7'-0"	1 3/4"	H.M.	1	7, 8
K-1	90 MIN.	3'-0"	7'-0"	1 3/4"	(E)	7	2, 6
K-2	-	3'-0"	7'-0"	1 3/4"	(E)	1	7
L	-	2'-8"	7'-0"	1 3/4"	(E)	-	1
M	-	-	-	-	-	-	DELETE
N	-	4'-0"	7'-0"	1 3/4"	(E)	2	7
O	-	3'-0"	7'-0"	1 3/4"	(E)	-	1
P	-	3'-8"	7'-0"	1 3/4"	(E)	3	7
Q	-	3'-0"	7'-0"	1 3/4"	(E)	3	7
R	-	3'-0"	7'-0"	1 3/4"	ALUM.	4	7, 8
S	-	-	-	-	-	-	DELETE
T	-	5'-8"	9'-3"	1 3/4"	(E)	5	7
U	-	12'-2"	14'-1"	1 3/4"	-	-	5
V	-	14'-2"	14'-1"	1 3/4"	-	-	3, 4
W	-	3'-6"	7'-0"	1 3/4"	(E)	-	6
X	-	14'-2"	14'-1"	1 3/4"	-	-	2, 3, 4
Y	-	11'-8"	12'-0"	1 3/4"	-	-	1
Z	-	3'-0"	7'-0"	1 3/4"	(E)	-	1
AA	-	6'-0"	8'-0"	1 3/4"	(E)	6	7
BB	-	3'-0"	7'-0"	1 3/4"	(E)	-	6
CC	-	3'-0"	7'-0"	1 3/4"	(E)	-	1
DD	-	3'-0"	7'-0"	1 3/4"	HM	7	RE: A71-10, UNDERCUT 1/2"
EE	-	5'-0"	3'-6"	MFR	STL	8	-
FF	-	6'-0"	8'-0"	MFR	STL	8	-
GG	-	6'-0"	7'-0"	1 3/4"	HM	9	RE: A71-10
HH	-	8'-0"	9'-0"	MFR	STL	8	-
II	-	3'-0"	7'-0"	1 3/4"	HM	1	RE: A71-11
JJ	-	6'-0"	7'-0"	1 3/4"	HM	10	RE: A71-10
KK	-	4'-0"	7'-0"	1 3/4"	HM	2	RE: A71-10
LL	-	3'-0"	7'-0"	1 3/4"	HM	3	RE: A71-10, UNDERCUT 1/2"
MM	-	3'-0"	7'-0"	1 3/4"	HM	3	RE: A71-10, UNDERCUT 1/2"
NN	-	3'-0"	7'-0"	1 3/4"	HM	6	RE: A71-10
OO	-	9'-0"	9'-0"	MFR	-	-	3'-0" OPERABLE SLIDING GLASS W/ 6'-0" FIXED
PP	-	9'-0"	9'-0"	MFR	-	-	3'-0" OPERABLE SLIDING GLASS W/ 6'-0" FIXED
QQ	-	9'-0"	9'-0"	MFR	-	-	3'-0" OPERABLE SLIDING GLASS W/ 6'-0" FIXED
RR	-	9'-0"	9'-0"	MFR	-	-	3'-0" OPERABLE SLIDING GLASS W/ 6'-0" FIXED
SS	-	3'-0"	7'-0"	1 3/4"	HM	6	RE: A71-10
TT	-	-	-	-	-	-	NOT USED
UU	-	3'-0"	7'-0"	1 3/4"	ALUM	4	-

REMARKS: 1. (E) DOOR TO REMAIN - NO WORK SCHEDULED
 2. (E) DOOR TO REMAIN - WORK PARTS AS NEEDED TO INSURE PROPER OPERATION.
 3. REPLACE MOTOR, ADD MOTION SENSOR - SEE SPECIFICATIONS
 4. PROVIDE MAINTENANCE TO DOOR AND TRACK ASSEMBLY, REPLACE WORK PARTS AS NEEDED TO INSURE PROPER OPERATION.
 5. REPLACE (E) GLASS WITH TEMPERED GLASS
 6. REPLACE (E) KNOBS WITH LEVER HANDLES
 7. REPLACE (E) DOOR AND HARDWARE
 8. REPLACE (E) DOOR FRAME

WINDOW TYPES

SCALE 1/4"=1'-0"

*NOTE: ALL OVERALL DIMENSIONS ARE TO ROUGH OPENINGS. CONTRACTOR TO SITE VERIFY ALL ROUGH OPENING DIMENSIONS.



GLAZING LEGEND/ NOTES

SCALE NTS

- THE SYMBOL T REPRESENTS TEMPERED GLAZING.
- THE SYMBOL IG REPRESENTS 1" INSULATED GLAZING WITH U VALUE OF 0.35 AND SHGC OF 0.8 UNLESS OTHERWISE NOTED.

DOOR NOTES

SCALE NTS

- ALL NEW WOOD DOORS TO BE FINISHED WITH CLEAR STAIN/SEALER.
- ALL NEW METAL DOORS AND FRAMES TO BE PAINTED.
- CONTRACTOR TO VERIFY SPECIFIED DOOR HARDWARE IS COMPATIBLE WITH EXISTING DOORS AND OR FRAMES THEY ARE SPECIFIED FOR.

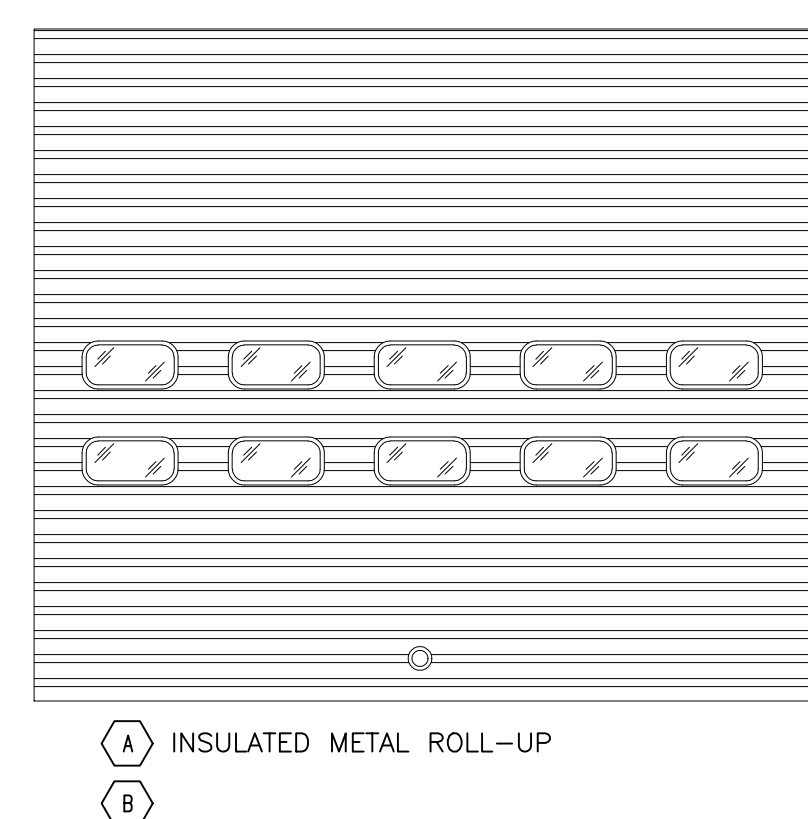
DOOR HARDWARE

SCALE NTS

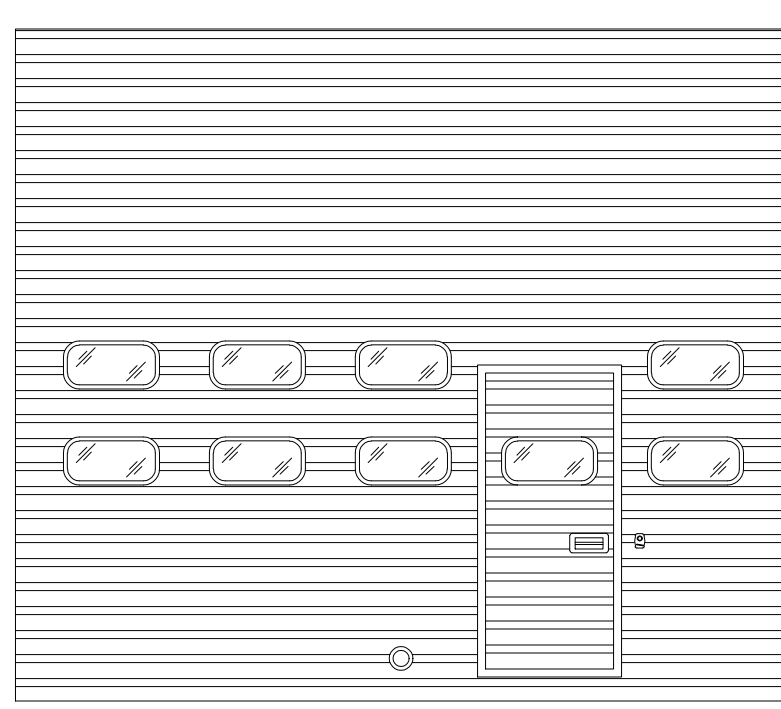
- | | |
|---|--|
| HARDWARE SET NO. 1 (DOORS I2, J, K2, JJ) | HARDWARE SET NO. 5 (DOOR AA) |
| (3) HINGES
(1) LEVER LOCKSET
(1) PANIC HARDWARE
(1) CLOSER
(1) THRESHOLD
(1) DOOR SWEEP
(1) SEAL SET
(3) SILENCERS | (8) HINGES
(1) MORTISE CYLINDER
(2) FULL
(2) PANIC HARDWARE
(1) SECURITY ASTRAGAL
(2) CLOSER
(2) DOOR SWEEP
(1) THRESHOLD
(1) SEAL SET |
| HARDWARE SET NO. 2 (DOOR N, KK) | HARDWARE SET NO. 6 (DOOR NN, SS) |
| (4) HINGES
(1) LEVER LOCKSET
(1) CLOSER
(3) SILENCERS | (4) HINGES
(1) LEVER LATCHSET
(3) SILENCERS |
| HARDWARE SET NO. 3 (DOORS P, Q, LL, MM) | HARDWARE SET NO. 7 (DOORS DD) |
| (3) HINGES
(1) LEVER LOCKSET
(1) CLOSER
(3) SILENCERS | (3) HINGES
(1) LEVER LOCKSET
(1) PANIC HARDWARE
(1) CLOSER
(1) THRESHOLD
(1) DOOR SWEEP
(1) SEAL SET |
| HARDWARE SET NO. 4 (DOOR R, UU) | HARDWARE SET NO. 8 (DOOR EE, FF, HH) |
| (3) HINGES
(1) LOCKSET
(1) PULL
(1) PANIC HARDWARE
(1) CLOSER
(1) DOOR SWEEP
(1) THRESHOLD
(1) SEAL SET | (1) MORTISE CYLINDER |
| HARDWARE SET NO. 5 (DOOR T) | HARDWARE SET NO. 9 (DOOR GG) |
| (8) HINGES
(1) MORTISE CYLINDER
(1) SECURITY ASTRAGAL
(2) DOOR SWEEP
(6) SILENCERS
(1) THRESHOLD
(1) SEAL SET | (2) PUSH/PULL
(2) CLOSER
(1) ASTRAGAL
(2) DOOR SWEEP
(6) SILENCERS
(2) HOLD OPEN |
| | HARDWARE SET NO. 10 (DOOR JJ) |
| | (6) HINGES
(2) LATCHSET
(2) CLOSER
(6) SILENCERS
(2) HOLD OPEN |

DOOR TYPES

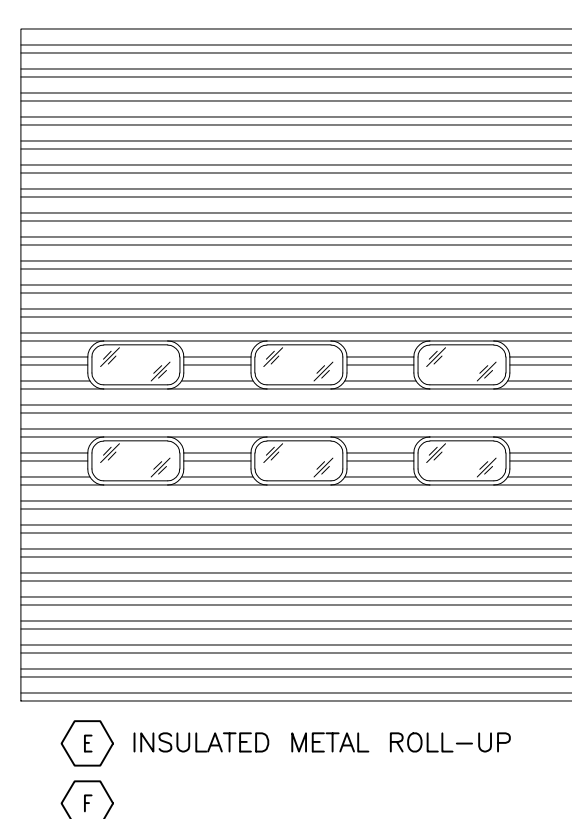
SCALE 1/4"=1'-0"



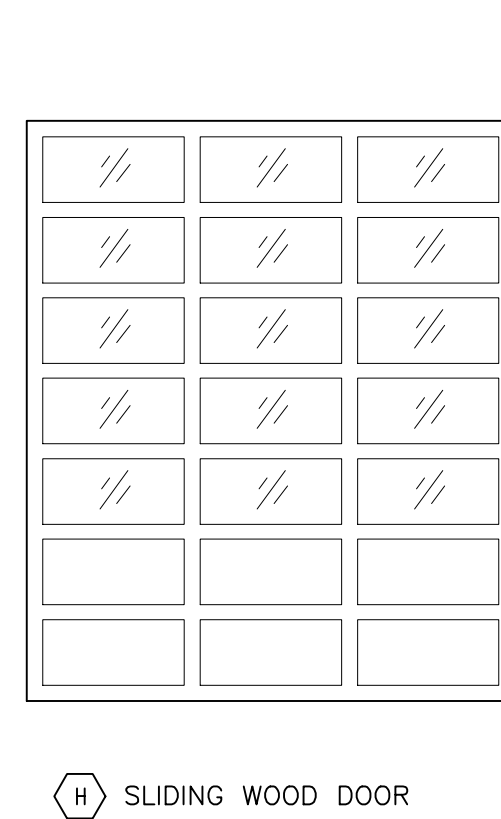
(A) INSULATED METAL ROLL-UP



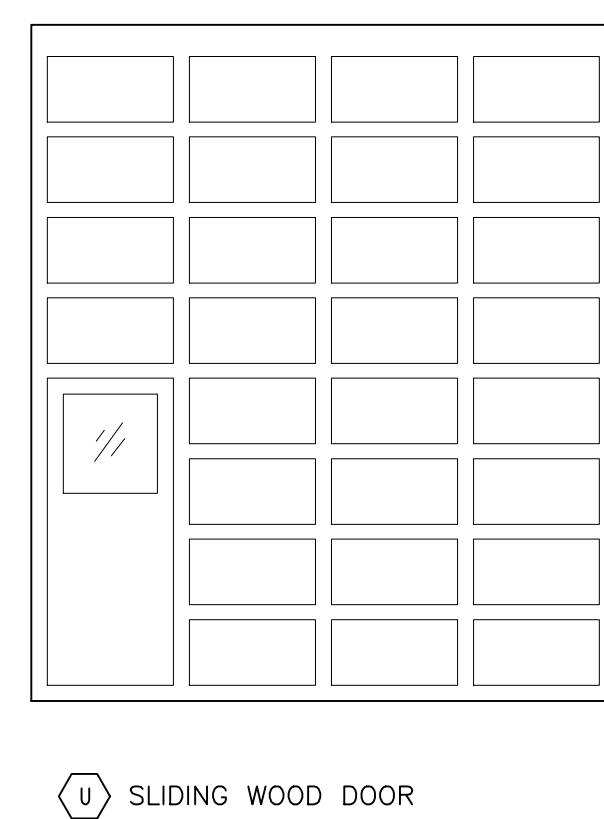
(C) INSULATED METAL ROLL-UP



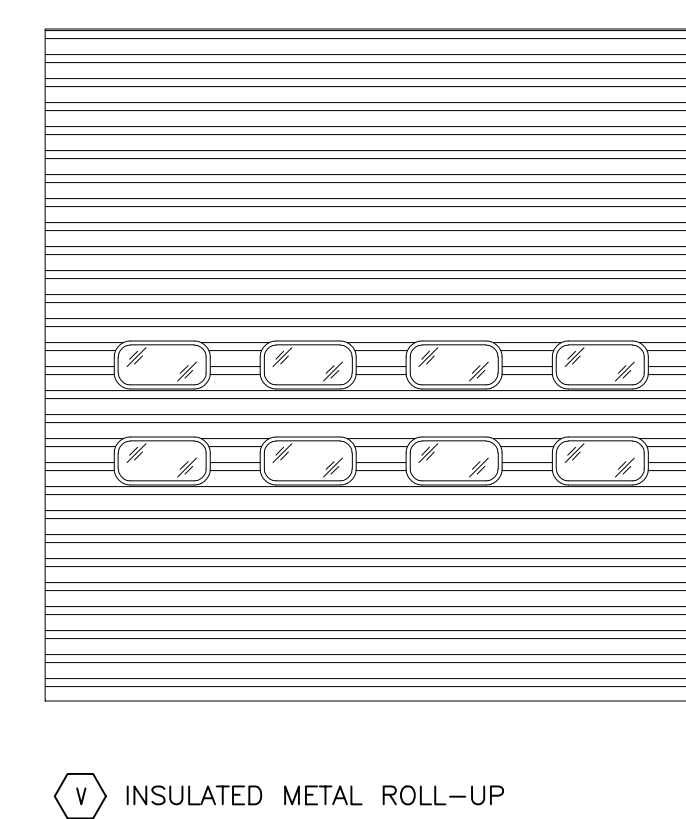
(E) INSULATED METAL ROLL-UP



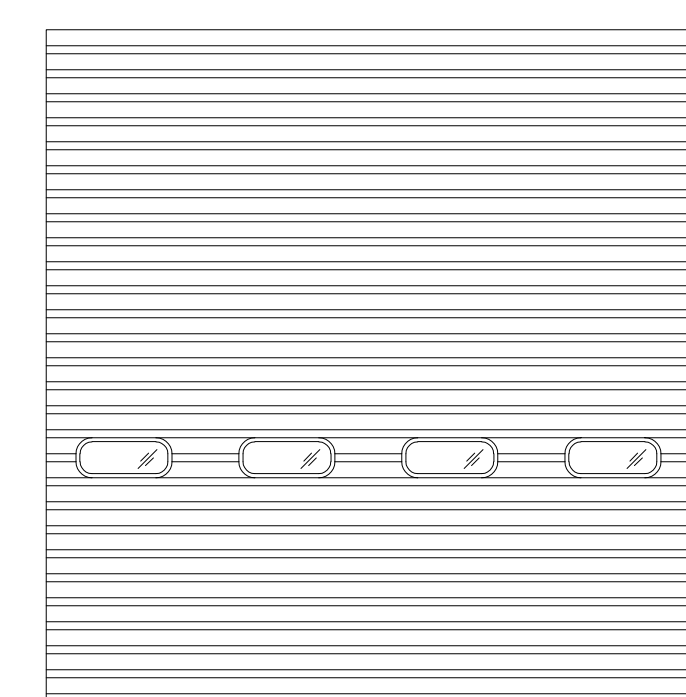
(H) SLIDING WOOD DOOR



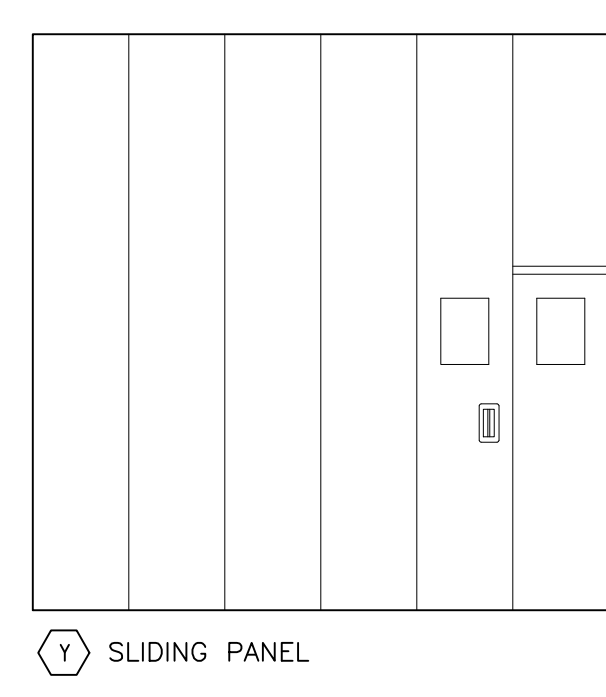
(U) SLIDING WOOD DOOR



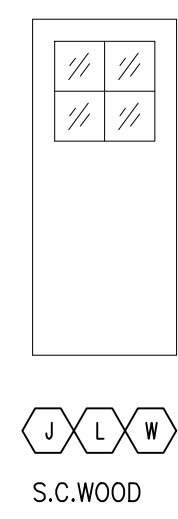
(V) INSULATED METAL ROLL-UP



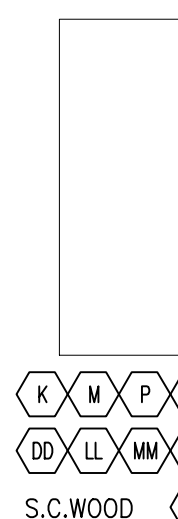
(X) INSULATED METAL ROLL-UP



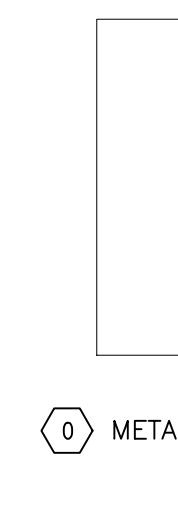
(Y) SLIDING PANEL



(J) S.C. WOOD



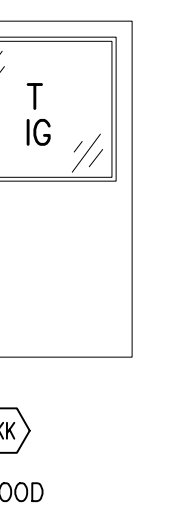
(L) S.C. WOOD



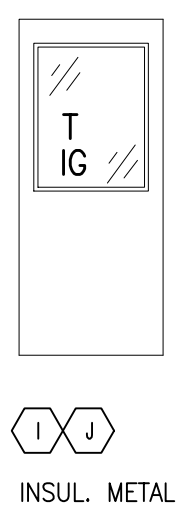
(M) S.C. WOOD



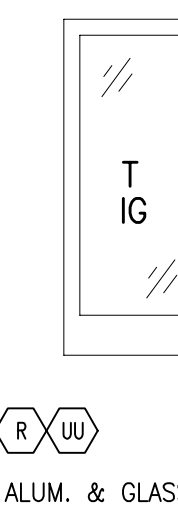
(N) METAL FIRE DOOR



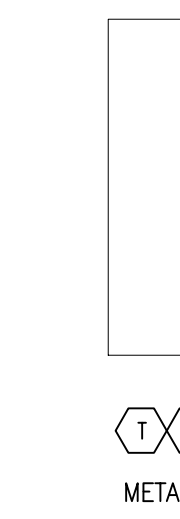
(O) S.C. WOOD



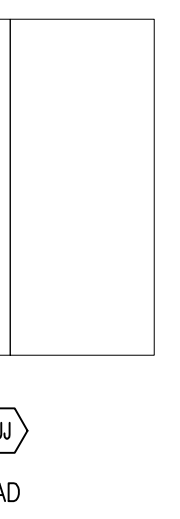
(P) INSUL. METAL



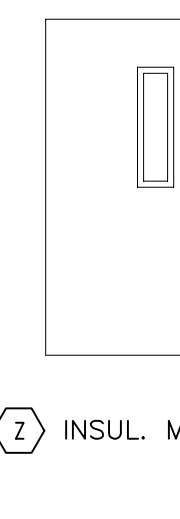
(Q) ALUM. & GLASS



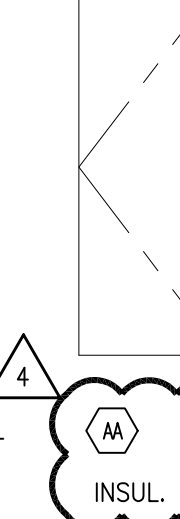
(R) METAL CLAD



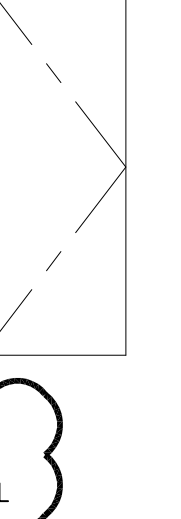
(T) INSUL. METAL



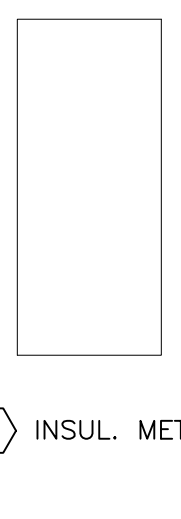
(Z) INSUL. METAL



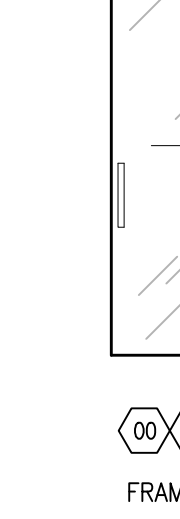
(A) INSUL. METAL



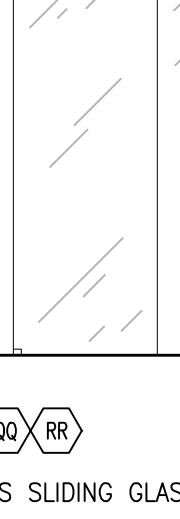
(B) INSUL. METAL



(C) INSUL. METAL



(D) INSUL. METAL



(E) FRAMELESS SLIDING GLASS



(F) COILING COUNTER DOOR



(G) OVERHEAD COILING DOOR

ITD DIST 3 MAINTENANCE BLDG UPGRADES
 5800 COFFEY STREET
 GARDEN CITY, ID

CSHOA

FOR CONSTRUCTION
 6/25/18

PROJECT 18059.00 DATE 5-2-18
 DRAWN LGB CHECKED CAS
 REVISIONS:
 1 ADDENDUM NO. ONE 05-15-18
 2 ADDENDUM NO. FIVE 06-06-18

SHEET TITLE
DOOR & WINDOW SCHEDULES

SHEET
A81

ORIGINAL SHEET SIZE
 30" x 42"



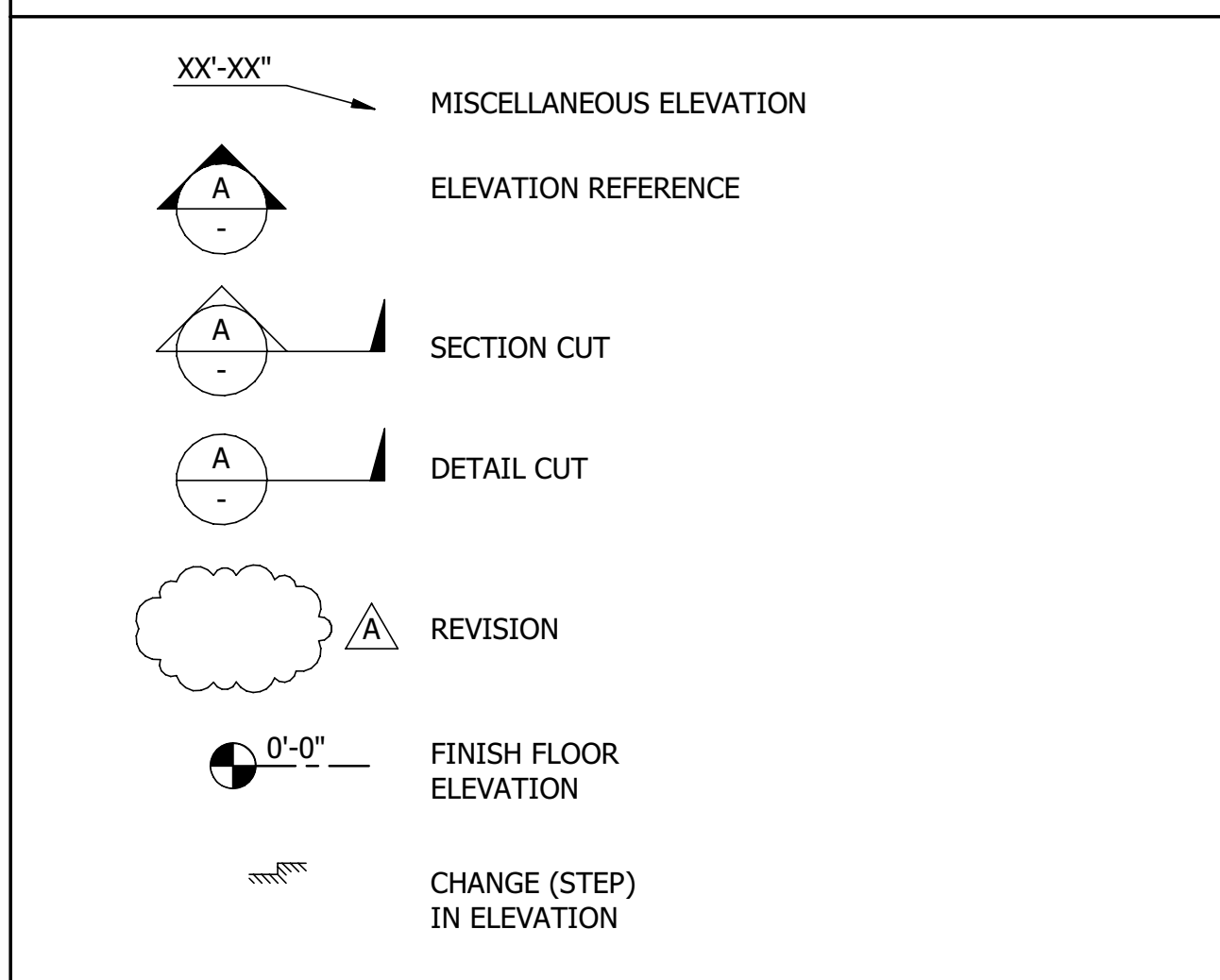
STRUCTURAL ABBREVIATIONS

Table with 4 columns: Symbol, Description, Abbreviation, and Full Name. Includes symbols for #, &, @, Ø, ALT, ARCH, BOD, BPL, CL, CLR, CMU, CONC, CONN, CONT, DF, DIA, DT, EJ, EL, ELEC, EMBED, EQ, EQUIP, EXST, (E), EXT, FTG, GA, GLB, GT, HORIZ, ID, JB, LONG, LT WT, MAX, MECH, MFD, MFG.

Table with 2 columns: Symbol and Description. Includes STRUCTURAL UNITS, #, LB, FT/LB, K, KSI, PCF, PLF, PSF, PSI, SF.

Table with 2 columns: Symbol and Description. Includes STRUCTURAL ORGANIZATIONS, ACI, AISC, AISI, ANSI, APA, ASTM, AWS.

GENERAL SYMBOL LEGEND



STRUCTURAL SYMBOL LEGEND

Table with 2 columns: Symbol and Description. Includes roof supported mechanical unit, roof hung mechanical, finish floor elevation, flat blocking, beam/header, and wood wall.

GENERAL NOTES

GENERAL REQUIREMENTS

GOVERNING CODE: THE DESIGN AND CONSTRUCTION OF THIS PROJECT IS GOVERNED BY THE "INTERNATIONAL BUILDING CODE (IBC)", 2015 EDITION, HEREAFTER REFERRED TO AS THE IBC, AS ADOPTED AND MODIFIED BY THE LOCAL BUILDING DEPARTMENT WITH AUTHORITY HAVING JURISDICTION.

REFERENCE STANDARDS: REFER TO CHAPTER 35 OF IBC. WHERE OTHER STANDARDS ARE NOTED IN THE DRAWINGS, USE THE LATEST EDITION OF THE STANDARD UNLESS A SPECIFIC DATE IS INDICATED. REFERENCE TO A SPECIFIC SECTION IN A CODE DOES NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE ENTIRE STANDARD. ALL SPECIFICATIONS AND CODES NOTED SHALL BE THE LATEST APPROVED EDITIONS AND REVISIONS BY THE AUTHORITY HAVING JURISDICTION OVER THIS PROJECT.

SPECIFICATIONS: REFER TO THE PROJECT SPECIFICATIONS ISSUED AS PART OF THE CONTRACT DOCUMENTS FOR INFORMATION SUPPLEMENTAL TO THESE DRAWINGS.

OTHER DRAWINGS: REFER TO THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, CIVIL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION INCLUDING BUT NOT LIMITED TO: DIMENSIONS, ELEVATIONS, SLOPES, DOOR AND WINDOW OPENINGS, NON-BEARING WALLS, STAIRS, FINISHES, DRAINS, WATERPROOFING, RAILINGS, CURBS, DEPRESSIONS, MECHANICAL UNIT LOCATIONS, AND OTHER NON-STRUCTURAL ITEMS.

STRUCTURAL DETAILS: THE STRUCTURAL DRAWINGS ARE INTENDED TO SHOW THE GENERAL CHARACTER AND EXTENT OF THE PROJECT AND ARE NOT INTENDED TO SHOW ALL DETAILS OF THE WORK. DETAILS, SECTIONS, AND NOTES SHOWN ON THESE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR CONDITIONS ELSEWHERE UNLESS OTHERWISE SHOWN OR NOTED. IF LOCATIONS ARE FOUND WHERE NO TYPICAL DETAIL, TYPICAL SCHEDULE, OR SPECIFIC DETAIL APPLIES, NOTIFY THE ARCHITECT/STRUCTURAL ENGINEER.

STRUCTURAL RESPONSIBILITIES: THE STRUCTURAL ENGINEER (SER) IS RESPONSIBLE FOR THE STRENGTH AND STABILITY OF THE PRIMARY STRUCTURE IN ITS COMPLETED FORM. THE STRUCTURAL DRAWINGS DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION.

COORDINATION: THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING DETAILS AND ACCURACY OF THE WORK; FOR CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS; FOR SELECTING FABRICATION PROCESSES; FOR TECHNIQUES OF ASSEMBLY; AND FOR PERFORMING WORK IN A SAFE AND SECURE MANNER.

DIMENSIONS: DO NOT SCALE THE DRAWINGS. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION. THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES. STRUCTURE NOTED IN THE DRAWINGS AS EXISTING SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT/STRUCTURAL ENGINEER.

MEANS, METHODS AND SAFETY REQUIREMENTS: THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND ALL JOB RELATED SAFETY STANDARDS SUCH AS OSHA (OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION) AND DOSH (DEPARTMENT OF OCCUPATIONAL SAFETY AND HEALTH). THE CONTRACTOR IS TO PROVIDE ADEQUATE EXCAVATION PROCEDURES, SHORING, BRACING AND ERECTION PROCEDURES COMPLYING WITH NATIONAL, STATE AND LOCAL SAFETY ORDINANCES.

TEMPORARY SHORING AND BRACING: THE CONTRACTOR IS RESPONSIBLE FOR THE STRENGTH AND STABILITY OF THE STRUCTURE DURING CONSTRUCTION AND SHALL PROVIDE MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE (BUT ARE NOT LIMITED TO): BRACING AND SHORING FOR LOADS DUE TO HYDROSTATIC, EARTH, WIND OR SEISMIC FORCES; CONSTRUCTION EQUIPMENT, ETC. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE FAMILIAR WITH THE WORK REQUIRED IN THE CONSTRUCTION DOCUMENTS AND THE REQUIREMENTS FOR EXECUTING IT PROPERLY. THE CONTRACTOR SHALL AT HIS DISCRETION EMPLOY A REGISTERED PROFESSIONAL ENGINEER FOR THE DESIGN OF ANY TEMPORARY BRACING AND SHORING.

CONSTRUCTION LOADS: CONSTRUCTION LOADS AND MATERIALS SHALL BE SPREAD OUT WHEN PLACED ON FRAMED FLOORS OR ROOFS. LOADS ON THE STRUCTURE DURING CONSTRUCTION SHALL NOT EXCEED THE DESIGN LOADS AS NOTED IN DESIGN CRITERIA AND LOADS BELOW OR THE CAPACITY OF PARTIALLY COMPLETED CONSTRUCTION AS DETERMINED BY THE CONTRACTOR'S PROFESSIONAL ENGINEER FOR BRACING/SHORING.

CHANGES IN LOADING: THE CONTRACTOR HAS THE RESPONSIBILITY TO NOTIFY THE SER OF ANY ARCHITECTURAL, MECHANICAL, ELECTRICAL, OR PLUMBING LOAD IMPOSED ONTO THE STRUCTURE THAT DIFFERS FROM, OR THAT IS NOT DOCUMENTED ON THE ORIGINAL CONTRACT DOCUMENTS (ARCHITECTURAL / STRUCTURAL / MECHANICAL / ELECTRICAL OR PLUMBING DRAWINGS). PROVIDE DOCUMENTATION OF LOCATION, LOAD, SIZE AND ANCHORAGE OF ALL UNDOCUMENTED LOADS IN EXCESS OF 300 POUNDS. PROVIDE MARKED-UP STRUCTURAL PLAN INDICATING LOCATIONS OF ANY NEW EQUIPMENT OR LOADS NOT PREVIOUSLY DOCUMENTED. SUBMIT PLANS TO THE ARCHITECT/ENGINEER FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.

ROOF DRAINAGE: THE ROOF DRAINAGE SYSTEM SHALL BE DESIGNED SO THAT RAINWATER LOADS DO NOT EXCEED THE ROOF SNOW OR LIVE LOADS AS SHOWN IN THE DESIGN CRITERIA AND LOADS SECTION.

NOTE PRIORITIES: PLAN AND DETAIL NOTES AND SPECIFIC LOADING DATA PROVIDED ON INDIVIDUAL PLANS AND DETAIL DRAWINGS SUPPLEMENTS INFORMATION IN THE STRUCTURAL GENERAL NOTES AND PROJECT SPECIFICATIONS.

DISCREPANCIES: IN CASE OF DISCREPANCIES BETWEEN THE GENERAL NOTES, SPECIFICATIONS PLAN/DETAILS OR REFERENCE STANDARDS, THE ARCHITECT/ENGINEER SHALL DETERMINE WHICH SHALL GOVERN. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK. SHOULD ANY DISCREPANCY BE FOUND IN THE CONTRACT DOCUMENTS, THE CONTRACTOR WILL BE DEEMED TO HAVE INCLUDED IN THE PRICE THE MOST EXPENSIVE WAY OF COMPLETING THE WORK, UNLESS PRIOR TO THE SUBMISSION OF THE PRICE, THE CONTRACTOR ASKS FOR A DECISION FROM THE ARCHITECT AS TO WHICH SHALL GOVERN. ACCORDINGLY, ANY CONFLICT IN OR BETWEEN THE CONTRACT DOCUMENTS SHALL NOT BE A BASIS FOR ADJUSTMENT IN THE CONTRACT PRICE.

SITE VERIFICATION: THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE. CONFLICTS BETWEEN THE DRAWINGS AND ACTUAL SITE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL INVESTIGATE THE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR FILLED EXCAVATIONS OR BURIED STRUCTURES SUCH AS CESSPOOLS, CISTERNS, FOUNDATIONS, UTILITIES, ETC. IF ANY SUCH STRUCTURES ARE FOUND, NOTIFY THE STRUCTURAL ENGINEER IMMEDIATELY.

ADJACENT UTILITIES: THE CONTRACTOR SHALL DETERMINE THE LOCATION OF ALL ADJACENT UNDERGROUND UTILITIES PRIOR TO EARTH-WORK, FOUNDATIONS, SHORING, AND EXCAVATION. ANY UTILITY INFORMATION SHOWN ON THE STRUCTURAL DRAWINGS AND DETAILS ARE INTENDED FOR REFERENCE ONLY AND NOT FOR CONSTRUCTION.

ALTERNATES: ALTERNATE PRODUCTS OF SIMILAR STRENGTH, NATURE AND FORM FOR SPECIFIED ITEMS MAY BE SUBMITTED WITH ADEQUATE TECHNICAL DOCUMENTATION TO THE ARCHITECT/ENGINEER FOR REVIEW. ALTERNATE MATERIALS THAT ARE SUBMITTED WITHOUT ADEQUATE TECHNICAL DOCUMENTATION OR THAT SIGNIFICANTLY DEVIATE FROM THE DESIGN INTENT BY MATERIALS SPECIFIED MAY BE RETURNED WITHOUT REVIEW. ALTERNATES THAT REQUIRE SUBSTANTIAL EFFORT TO REVIEW WILL NOT BE REVIEWED UNLESS AUTHORIZED BY THE OWNER.

MECHANICAL, PLUMBING AND ELECTRICAL ANCHORAGE: ANCHORAGE AND SUPPORT OF MECHANICAL AND ELECTRICAL EQUIPMENT, PIPING AND DUCTWORK IS TO BE DESIGNED BY OTHERS. SEE ASCE 7-10 SECTION 13.2 AND TABLE 13.2-1. USE ISOLATORS, FASTENERS AND BRACING APPROVED BY ICC-ES REPORT CAPABLE OF TRANSMITTING CODE REQUIRED LATERAL LOADS. ALL SUSPENDED EQUIPMENT IS TO BE SECURED WITH LATERAL BRACING. SEE THE LATEST EDITION OF "GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS" BY THE SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION.

OBSERVATION VISITS: OBSERVATION VISITS (SITE VISITS) BY REPRESENTATIVES OF ARCHITECT/STRUCTURAL ENGINEER DO NOT INCLUDE INSPECTION OF CONSTRUCTION MEANS AND METHODS. SITE VISITS DURING CONSTRUCTION ARE NOT CONTINUOUS AND DETAILED INSPECTION SERVICES (WHICH ARE TO BE PERFORMED BY OTHERS). OBSERVATIONS ARE PERFORMED SOLELY FOR THE PURPOSE OF DETERMINING IF THE CONTRACTOR UNDERSTANDS DESIGN INTENT SHOWN IN THE CONTRACT DRAWINGS. OBSERVATIONS DO NOT GUARANTEE CONTRACTOR'S PERFORMANCE AND ARE NOT TO BE CONSTRUED AS SUPERVISION OR VERIFICATION OF CONSTRUCTION.

GENERAL REQUIREMENTS (CONT)

SHOP DRAWINGS: SHOP DRAWINGS SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW SHALL CONSIST OF (1) ELECTRONIC PDF SET OR (1) MARKUP SET (FOR OUR RECORDS) AND (1) REPRODUCIBLE SET. NO MODIFICATIONS OR SUBSTITUTION OF DRAWINGS AND SPECIFICATIONS WILL BE ACCEPTED VIA SHOP DRAWING REVIEW.

- 1. CONTRACTOR SHALL REVIEW AND STAMP SHOP DRAWINGS PRIOR TO SUBMISSION TO THE ARCHITECT/STRUCTURAL ENGINEER. CONTRACTOR SHALL REVIEW FOR COMPLETENESS AND COMPLIANCE WITH CONTRACT DOCUMENTS.
2. SUBMIT SHOP DRAWINGS TO THE ARCHITECT/STRUCTURAL ENGINEER AS INDICATED OR SPECIFIED FOR REVIEW PRIOR TO FABRICATION. REVIEW WILL BE FOR GENERAL CONFORMANCE WITH DESIGN INTENT CONVEYED IN THE CONTRACT DOCUMENTS.
3. WHEN AN ENGINEER IS REQUIRED TO SIGN AND STAMP SHOP DRAWINGS AND CALCULATIONS, ENSURE SEAL INDICATES ENGINEER AS BEING REGISTERED IN THE STATE OF THE PROJECT SITE.
4. SHOP DRAWINGS ARE NOT A PART OF CONTRACT DOCUMENTS. THEREFORE, ARCHITECT'S/STRUCTURAL ENGINEER'S REVIEW DOES NOT CONSTITUTE AN AUTHORIZATION TO DEVIATE FROM TERMS AND CONDITIONS OF THE CONTRACT.
5. SHOP DRAWINGS WILL BE REJECTED FOR INCOMPLETENESS, LACK OF COORDINATION WITH OTHER PORTIONS OF CONTRACT DOCUMENTS, LACK OF CALCULATIONS (IF REQUIRED), OR WHERE MODIFICATIONS OR SUBSTITUTIONS ARE INDICATED WITHOUT PRIOR REVIEW PER PARAGRAPH ABOVE.
6. SUBMIT SHOP DRAWINGS AND CALCULATIONS TO GOVERNING CODE AUTHORITY WHEN SPECIFICALLY INDICATED OR REQUESTED.
7. MAINTAIN A COPY OF ALL SHOP DRAWINGS REVIEWED BY THE ARCHITECT/STRUCTURAL ENGINEER AT SITE DURING CONSTRUCTION PERIOD.
8. STRUCTURAL ENGINEER REQUIRES 10 WORKING DAYS AFTER RECEIPT OF SHOP DRAWINGS AND CALCULATIONS FOR PROCESSING.
9. REPRODUCTION OF ANY PORTION OF THE STRUCTURAL CONTRACT DRAWINGS FOR RESUBMITTAL AS SHOP DRAWINGS IS PROHIBITED. SHOP DRAWINGS PRODUCED IN SUCH A MANNER WILL BE REJECTED AND RETURNED.

DESIGN CRITERIA AND LOADS

RISK CATEGORY OF BUILDING II

WIND DESIGN - ASCE 7-10 CHAPTER 26, 29, & 30 (STRENGTH LEVEL UNLESS NOTED)
- BASIC WIND SPEED 115 MPH
- EXPOSURE CATEGORY C
- TOPOGRAPHIC FACTOR (Kzt) 1.0

SEISMIC DESIGN - ASCE 7-10 CHAPTER 13 (NON-STRUCTURAL COMPONENTS)
- MAPPED MCE: Ss = 0.304 S1 = 0.105
- SOIL SITE CLASSIFICATION D
- DESIGN ACCEL: Sds = 0.315g Sd1 = 0.167g
- SEISMIC DESIGN CATEGORY (SDC) C
- SEISMIC IMPORTANCE FACTOR (Ie) 1.0

SNOW LOAD - ASCE 7-10 CHAPTER 7
- GROUND SNOW LOAD (Pg) 20 PSF
- SNOW EXPOSURE FACTOR (Ce) 1.0
- THERMAL FACTOR (Ct) 1.0
- SNOW LOAD IMPORTANCE FACTOR (Ie) 1.0
- ROOF SNOW LOAD (Ps or Pn or Pp) 25 PSF

SEE ROOF PLAN FOR DRIFT LOADING

DESIGN DEAD LOADS

Table with 4 columns: AREA, DEAD LOADS (PSF) UNO, REMARKS AND NOTES. Row for ROOF with value 20.

TESTS AND INSPECTIONS

INSPECTIONS: SPECIAL INSPECTIONS AND TESTING SHALL BE DONE IN ACCORDANCE THE STATEMENT OF SPECIAL INSPECTIONS PER IBC SECTIONS 1704 AND 1705 AS APPLICABLE. FOR SPECIFIC SECTIONS: 1705.11 (WIND SPECIAL INSPECTIONS), 1705.12 (SEISMIC SPECIAL INSPECTIONS), 1705.13 (SEISMIC SPECIAL TESTING). FOUNDATIONS, FOOTINGS, UNDER SLAB SYSTEMS AND FRAMING ARE SUBJECT TO INSPECTION BY THE BUILDING OFFICIAL IN ACCORDANCE WITH IBC SECTION 110.3. CONTRACTOR SHALL COORDINATE ALL REQUIRED INSPECTIONS WITH THE BUILDING OFFICIAL.

SPECIAL INSPECTORS: SPECIAL INSPECTORS SHALL BE EMPLOYED BY THE OWNER TO PROVIDE SPECIAL INSPECTIONS FOR THE PROJECT. SPECIAL INSPECTORS SHALL BE QUALIFIED PERSONS WHO DEMONSTRATE COMPETENCE TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION PER 1704.1.

STATEMENT OF SPECIAL INSPECTIONS: SPECIAL INSPECTIONS AND TESTING ARE REQUIRED BY 1704 AND 1705 FOR THE FOLLOWING:

- SOIL AND FOUNDATION CONSTRUCTION: PER IBC SECTION 1705.6:
1. PERIODIC INSPECTION OF SOILS EARTHWORK PER TABLE 1705.6 IS REQUIRED FOR:
A. FOOTING SOIL BEARING SURFACES PRIOR TO PLACING ANY REINFORCING STEEL.
B. EXCAVATION DEPTH AND BEARING LAYER PRIOR TO PLACING ANY REINFORCING STEEL.
C. COMPACTED FILL MATERIAL CLASSIFICATION AND TESTING.
D. SUBGRADE PREPARATION PRIOR TO FILLING.
2. CONTINUOUS INSPECTION PER TABLE 1705.6 REQUIRED TO VERIFY:
A. FILLING OPERATIONS TO SATISFY REQUIREMENTS OF IBC TABLE 1705.6 AND THE GEOTECHNICAL REPORT LISTED UNDER SOILS AND FOUNDATIONS SECTION.
B. COMPACTED FILL DENSITY TESTING OF EACH LIFT, PROPER LIFT THICKNESS AND MATERIAL CLASSIFICATION.

- CONCRETE CONSTRUCTION: PER IBC SECTION 1705.3 AND TABLE 1705.3 INCLUDING:
1. PERIODIC INSPECTION REQUIRED FOR:
A. SIZE AND PLACEMENT OF ALL REINFORCING STEEL PRIOR TO THE POUR.
B. PLACEMENT CLEARANCES AROUND REINFORCING STEEL AT EMBEDDED CONDUIT.
C. SHAPE, LOCATION AND DIMENSIONS OF MEMBERS FORMED.
D. USE OF THE REQUIRED DESIGN CONCRETE MIX.
E. MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.
2. CONTINUOUS INSPECTION REQUIRED DURING THE:
A. PLACING AND SIZE OF CAST-IN-PLACE BOLTS AND EMBEDDED FABRICATIONS PRIOR TO THE POUR.
B. PLACING OF CONCRETE AROUND CAST-IN-PLACE BOLTS AND EMBEDS.
C. SAMPLING OF FRESH CONCRETE.
D. DETERMINATIONS OF SLUMP, AIR CONTENT AND TEMPERATURE.

STRUCTURAL STEEL FABRICATION: PER IBC SECTION 1705.2. SPECIAL INSPECTOR SHALL REVIEW THE FABRICATION SHOP'S QUALITY CONTROL PROCEDURES FOR COMPLETENESS AND ADEQUACY RELATIVE TO AISC 360 CHAPTER M AND N, OF THE AISC CODE OF STANDARD PRACTICE, AWS D1.1-2015 STRUCTURAL WELDING CODE AND IBC CODE REQUIREMENTS FOR THE FABRICATOR'S SCOPE OF WORK.

- STRUCTURAL STEEL INSPECTION: PER IBC SECTION 1705.2 AND AISC 360 CHAPTER M AND N AT THE SITE AND THE FABRICATION SHOP, SHALL BE DONE IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:
1. PERIODIC INSPECTION REQUIRED:
A. PRIOR TO THE START OF FABRICATION FOR:
a. VERIFICATION OF SHOP COMPLIANCE WITH AISC CHAPTER N, SECTIONS N2 & N3 FOR COMPLETENESS AND ADEQUACY OF FABRICATION AND QUALITY CONTROL PROCEDURES
b. VERIFICATION OF SHOP COMPLIANCE WITH AWS D1.1 STRUCTURAL WELDING CODE
B. VERIFICATION OF SHOP COMPLIANCE WITH AISC 360 CHAPTER M, N, AND CODE OF STANDARD PRACTICE
C. PRIOR TO THE START OF ERECTION - VERIFICATION OF FRAMING REQUIREMENTS AND BOLTING PROCEDURES PER AISC
D. DURING HIGH STRENGTH BOLTING PER AISC TABLES N5.6-1, 2 AND 3

TESTS AND INSPECTIONS (CONT)

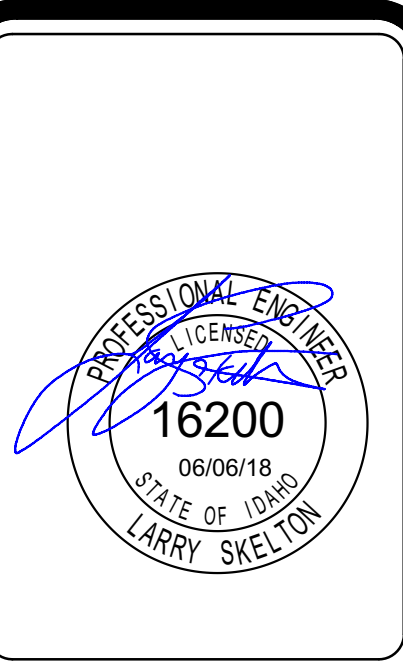
POST INSTALLED ANCHORS TO CONCRETE AND MASONRY: SHALL COMPLY WITH IBC SECTION 1705. INSPECTIONS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH IN THE APPROVED ICC EVALUATION REPORT AND AS INDICATED BY THE DESIGN REQUIREMENTS SPECIFIED ON THE DRAWINGS. REFER TO THE POST INSTALLED ANCHORS SECTION OF THESE NOTES FOR ANCHORS THAT ARE THE BASIS OF THE DESIGN. SPECIAL INSPECTOR SHALL VERIFY ANCHORS ARE AS SPECIFIED IN THE POST INSTALLED ANCHORS SECTION OF THESE NOTES OR AS OTHERWISE SPECIFIED ON THE DRAWINGS. SUBSTITUTIONS REQUIRE APPROVAL BY THE SER AND REQUIRE SUBSTANTIATING CALCULATIONS AND CURRENT IBC RECOGNIZED ICC-ES REPORT. SPECIAL INSPECTOR SHALL DOCUMENT IN THEIR SPECIAL INSPECTION REPORT COMPLIANCE WITH EACH OF THE ELEMENTS REQUIRED WITHIN THE APPLICABLE ICC-ES REPORT.

INSPECTION REPORTS: SPECIAL INSPECTION REPORTS SHALL BE PROVIDED AS SOON AS PRACTICAL AFTER COMPLETING INSPECTIONS. FINAL SPECIAL INSPECTION REPORTS WILL BE REQUIRED BY EACH SPECIAL INSPECTION FIRM PER IBC 1704.2.4. SUBMIT COPIES OF ALL INSPECTION REPORTS TO THE ARCHITECT/ENGINEER AND THE AUTHORITY HAVING JURISDICTION FOR REVIEW.

PREFABRICATED CONSTRUCTION: ALL PREFABRICATED CONSTRUCTION SHALL CONFORM TO IBC SECTION 1703.

SHEET INDEX

Table with 4 columns: SHEET NUMBER, SHEET NAME, CURRENT REVISION, CURRENT REVISION DATE. Includes sheets S0.01, S0.02, S1.01, S1.02, S5.01, S5.02, S6.01.



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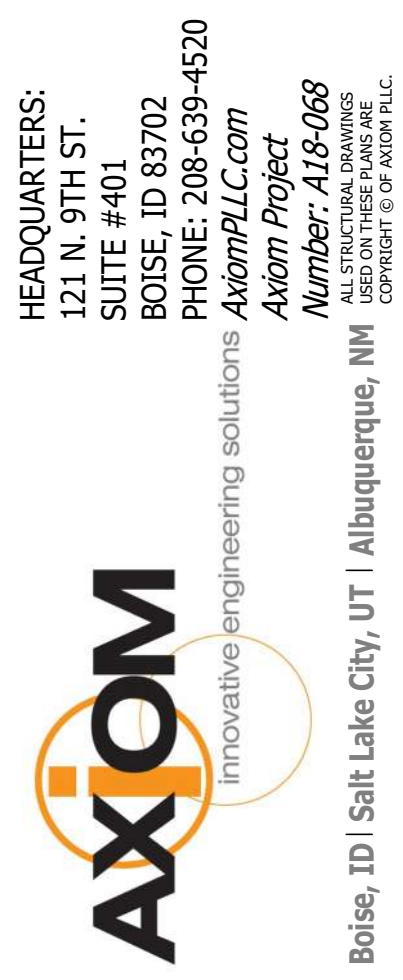
PERMIT SET FOR CONSTRUCTION
6/25/18

Table with 2 columns: PROJECT, DATE, DRAWN, CHECKED. Values include 18059.00, 05/02/18, AP, LS.

Table with 2 columns: REVISION, DATE. Values include ADDENDUM 1, 2018-05-15, ADDENDUM 5, 2018-06-06.

SHEET TITLE
STRUCTURAL COVER SHEET

SHEET
S0.01
ORIGINAL SHEET SIZE
30" x 42"



HEADQUARTERS: 121 N. 9TH ST. SUITE # 401 BOISE, ID 83702 PHONE: 208-639-4520
Account Project 188
Axiom Engineering Solutions
188
Axiom Engineering Solutions
188
Axiom Engineering Solutions
188



GENERAL NOTES

SOIL AND FOUNDATIONS

REFERENCE STANDARDS: CONFORM TO IBC CHAPTER 18 "SOILS AND FOUNDATIONS."
CONTRACTOR'S RESPONSIBILITIES: CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW THE GEOTECHNICAL REPORT AND SHALL FOLLOW THE RECOMMENDATIONS SPECIFIED THEREIN INCLUDING, BUT NOT LIMITED TO, SUBGRADE PREPARATIONS, PILE INSTALLATION PROCEDURES, GROUND WATER MANAGEMENT AND STEEP SLOPE BEST MANAGEMENT PRACTICES."
GEOTECHNICAL SUBGRADE INSPECTION: THE GEOTECHNICAL ENGINEER SHALL INSPECT ALL SUB-GRADES AND PREPARED SOIL BEARING SURFACES, PRIOR TO PLACEMENT OF FOUNDATION REINFORCING STEEL AND CONCRETE. GEOTECHNICAL ENGINEERS SHALL PROVIDE A LETTER TO THE OWNER STATING THAT SOILS ARE ADEQUATE TO SUPPORT THE "ALLOWABLE FOUNDATION BEARING PRESSURE(S)" SHOWN BELOW.

DESIGN SOIL VALUES

Table with 2 columns: Foundation type, Value. Row 1: Allowable foundation bearing pressure, 1,500 PSF*

SLABS-ON-GRADE: ALL SLABS-ON-GRADE SHALL BEAR ON COMPACTED STRUCTURAL FILL OR CONTROLLED DENSITY FILL. ALL MOISTURE SENSITIVE SLABS-ON-GRADE OR THOSE SUBJECT TO RECEIVE MOISTURE SENSITIVE COATINGS/COVERING SHALL BE PROVIDED WITH AN APPROPRIATE CAPILLARY BREAK AND VAPOR BARRIER/RETARDANT OVER THE SUBGRADE PREPARED AND INSTALLED AS NOTED IN THE GEOTECHNICAL REPORT, BARRIER MANUFACTURER'S WRITTEN RECOMMENDATIONS AND COORDINATED WITH THE FINISHES SPECIFIED BY THE ARCHITECT.

PREPARATION: THE CONTRACTOR SHALL PROVIDE FOR PROPER DEWATERING OF EXCAVATIONS FROM SURFACE WATER, GROUND WATER, SEEPING ETC

SHORING: THE CONTRACTOR SHALL PROVIDE FOR THE INSTALLATION AND DESIGN OF ALL CRIBBING, SHEATHING AND SHORING REQUIRED TO SAFELY AND ADEQUATELY RETAIN THE EARTH BANKS, NEW WALLS AND SUPPORT ANY EXISTING STRUCTURES IN ACCORDANCE WITH ALL NATIONAL, STATE AND LOCAL SAFETY ORDINANCES.

EXISTING CONDITIONS: ALL ABANDONED UTILITIES, FOOTINGS, ETC, THAT INTERFERE WITH NEW CONSTRUCTION SHALL BE REMOVED. NOTIFY THE STRUCTURAL ENGINEER SHOULD EXISTING FOUNDATIONS OR STRUCTURES BE ENCOUNTERED THAT ARE NOT SHOWN ON THE STRUCTURAL DRAWINGS.

BACKFILL: ALL EXCAVATIONS SHALL BE PROPERLY BACKFILLED. FOOTING BACKFILL AND UTILITY TRENCH BACKFILL WITHIN THE BUILDING PERIMETER SHALL BE MECHANICALLY COMPACTED IN LAYERS, TO THE APPROVAL OF THE GEOTECHNICAL ENGINEER. FLOODING WILL NOT BE PERMITTED. SEE THE GEOTECHNICAL REPORT FOR REQUIREMENTS. BACKFILL BEHIND RETAINING OR PIT WALLS BELOW GRADE SHALL NOT OCCUR UNTIL THE WALLS HAVE REACHED FULL DESIGN STRENGTH. PROPER BRACING TO PROTECT THE STRUCTURE AGAINST LATERAL LOADS SHALL BE IN PLACE PRIOR TO BACKFILL UNTIL THE ATTACHING FLOORS ARE IN PLACE AND HAVE REACHED FULL DESIGN STRENGTH.

CAST-IN-PLACE CONCRETE

REFERENCE STANDARDS: CONFORM TO:
1. ACI 301-10 "SPECIFICATIONS FOR STRUCTURAL CONCRETE", WITH MODIFICATIONS AS NOTED ON THE PROJECT DRAWINGS AND SPECIFICATIONS
2. IBC 2015 CHAPTER 19 "CONCRETE"
3. ACI 318-14 WITH MODIFICATIONS AS NOTED ON THE PROJECT DRAWINGS AND SPECIFICATIONS
4. ACI 117-10: SPECIFICATION FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS AND COMMENTARY RE-APPROVED 2015

FIELD REFERENCE: THE CONTRACTOR SHALL KEEP A COPY OF ACI FIELD REFERENCE MANUAL, SP-15, "STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE (ACI 301-10) WITH ADDITIONAL ACI AND ASTM REFERENCES."

CONCRETE MIXTURES: CONFORM TO ACI 301 SECTION 4 "CONCRETE MIXTURES" AND ACI 318 SECTION 26.4.

MATERIALS: CONFORM TO ACI 301 SECTION 4.2.1 "MATERIALS" FOR REQUIREMENTS FOR CEMENTITIOUS MATERIALS, AGGREGATES, MIXING WATER AND ADMIXTURES.

- 1. CEMENT
A. PORTLAND CEMENT SHALL CONFORM TO ASTM C150 TYPE II.
B. IF SULFATES ARE IN SOIL, PER GEOTECHNICAL REPORT, PROVIDE CEMENTITIOUS MATERIAL, MAXIMUM W/C AND MINIMUM F_c CONCRETE STRENGTH PER EXPOSURE CATEGORY S "X" AND ACI 301 TABLE 4.2.2.7.a
C. DO NOT USE CONCRETE OR GROUT CONTAINING CHLORIDES.

SUBMITTALS: PROVIDE ALL SUBMITTALS REQUIRED BY ACI 301 SECTION 4.1.2. SUBMIT MIX DESIGNS TO THE SER FOR EACH MIX IN THE TABLE BELOW. SUBSTANTIATING STRENGTH RESULTS FROM PAST TESTS SHALL NOT BE OLDER THAN 24 MONTHS PER ACI 318 SECTION 26.12. ALL MIX DESIGNS SHALL BE VERIFIED BY A QUALIFIED TESTING LABORATORY, WHERE REQUIRED BY THE AUTHORITY HAVING JURISDICTION, MIX DESIGNS SHALL BE WET STAMPED BY A CIVIL ENGINEER LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED.

TABLE OF MIX DESIGN REQUIREMENTS

Table with 6 columns: Member Type/Location, 28 Day Strength (psi), Maximum Aggregate, Exposure Class, Max W/C, Air Content. Row 1: Slabs on Grade (Interior), 3,000, 3/4", -, 0.40, -. Row 2: Concrete Stem Walls, 4,500, 3/4", F1,C1, 0.45, 5%

TABLE OF MIX DESIGN REQUIREMENTS NOTES:

- 1. W/C RATIO: WATER-CEMENTITIOUS MATERIAL RATIOS SHALL BE BASED ON THE TOTAL WEIGHT OF CEMENTITIOUS MATERIALS. MAXIMUM RATIOS ARE CONTROLLED BY STRENGTH NOTED IN THE TABLE OF MIX DESIGN REQUIREMENTS AND DURABILITY REQUIREMENTS GIVEN IN ACI 318 SECTION 4.3.
2. CEMENTITIOUS MATERIALS:
A. THE USE OF FLY ASH, OTHER POZZOLANS, SILICA FUME, OR SLAG SHALL CONFORM TO ACI 318 SECTIONS 4.3.1 AND 4.4.2. MAXIMUM AMOUNT OF FLY ASH SHALL BE 20% OF TOTAL CEMENTITIOUS CONTENT UNLESS REVIEWED AND APPROVED OTHERWISE BY SER.
B. CEMENTITIOUS MATERIALS SHALL CONFORM TO THE RELEVANT ASTM STANDARDS LISTED IN ACI 318 SECTION 3.2.1.
3. HARDROCK AGGREGATES SHALL CONFORM TO ASTM C33. LIGHT-WEIGHT AGGREGATES SHALL CONFORM TO ASTM C330.
4. SLUMP: CONFORM TO ACI 301 SECTION 4.2.2.2. SLUMP SHALL BE DETERMINED AT POINT OF DELIVERY.
5. CHLORIDE CONTENT: CONFORM TO ACI 318 SECTION 4.3.1 AND TABLE R4.3.1.
6. NON-CHLORIDE ACCELERATOR: NON-CHLORIDE ACCELERATING ADMIXTURE MAY BE USED IN CONCRETE PLACED AT AMBIENT TEMPERATURES BELOW 50°F AT THE CONTRACTOR'S OPTION.
7. ACI 318, SECTION 4 EXPOSURE CLASSES SHALL BE ASSUMED TO BE F0, S0, P0, AND C0 UNLESS DIFFERENT EXPOSURE CLASSES ARE LISTED IN THE TABLE OF MIX DESIGN REQUIREMENTS THAT MODIFY THESE BASE REQUIREMENTS.
8. DO NOT ADD WATER TO CONCRETE DURING DELIVERY, AT PROJECT SITE OR DURING PLACEMENT.

MEASURING, MIXING AND DELIVERY: CONFORM TO ACI 301 SECTION 4.3-EXECUTION.
1. DO NOT ADD WATER TO CONCRETE DURING DELIVERY, AT PROJECT SITE, OR DURING PLACEMENT.

HANDLING, PLACING, CONSTRUCTING AND CURING: CONFORM TO ACI 301 SECTION 5. IN ADDITION, HOT WEATHER CONCRETING SHALL CONFORM TO ACI 305R-10 WITH 305.1-14 UPDATES AND COLD WEATHER CONCRETING SHALL CONFORM TO ACI 306R-10. CONCRETE CURING: PROVIDE CURING COMPOUNDS FOR CONCRETE AS FOLLOWS:

- 1. USE MEMBRANE CURING COMPOUNDS THAT ARE COMPATIBLE WITH AND WILL NOT AFFECT SURFACES TO BE COVERED WITH FINISH MATERIALS APPLIED DIRECTLY TO CONCRETE.
2. APPLY CURING COMPOUNDS AT A RATE EQUIVALENT TO THE RATE OF APPLICATION AT WHICH CURING COMPOUND WAS ORIGINALLY TESTED FOR IN CONFORMANCE TO THE REQUIREMENTS OF ASTM C 309-11 AND THE MANUFACTURER'S RECOMMENDATIONS.

CAST-IN-PLACE CONCRETE (CONT)

CONSTRUCTION JOINTS: CONFORM TO ACI 301 SECTIONS. 2.2.2.5, 5.2.2.1 AND 5.3.2.6. CONSTRUCTION JOINTS SHALL BE LOCATED AND DETAILED AS ON THE CONSTRUCTION DRAWINGS. SUBMIT ALTERNATE LOCATIONS PER ACI 301 SECTION 5.1.2.3A FOR REVIEW AND APPROVAL BY THE SER (2) WEEKS MINIMUM PRIOR TO FORMING. USE OF AN ACCEPTABLE ADHESIVE, SURFACE RETARDANT, PORTLAND CEMENT GROUT OR ROUGHENING THE SURFACE IS NOT REQUIRED UNLESS SPECIFICALLY NOTED ON THE DRAWINGS.

EMBEDDED ITEMS: POSITION AND SECURE IN PLACE EXPANSION JOINT MATERIAL, ANCHORS AND OTHER STRUCTURAL (REINFORCING BARS, ANCHOR BOLTS AND OTHER EMBEDDED ITEMS) AND NON-STRUCTURAL EMBEDDED ITEMS BEFORE PLACING CONCRETE. CONTRACTOR SHALL REFER TO MECHANICAL, ELECTRICAL, PLUMBING AND ARCHITECTURAL DRAWINGS AND COORDINATE OTHER EMBEDDED ITEMS.

CONCRETE PLACEMENT TOLERANCE: CONFORM TO ACI 117 FOR CONCRETE PLACEMENT TOLERANCE. CONCRETE FORMS SHALL BE LAID OUT AND CONSTRUCTED TO PROVIDE THE SPECIFIED CAMBERS INDICATED IN THE STRUCTURAL DRAWINGS. CONCRETE PLACEMENT SHALL BE IN ACCORDANCE WITH ACI STANDARD 304R-00 AND PROJECT SPECIFICATIONS.

CONCRETE PREPARATION AND FINISH: CONCRETE SURFACES TO BE ROUGHENED TO 1/4" AMPLITUDE WHERE MASONRY WALLS INTERSECT CONCRETE OR WHERE NEW CONCRETE INTERFACES WITH EXISTING CONCRETE. THE PROJECTING CORNERS OF COLUMNS, BEAMS, AND WALLS, ETC, SHALL BE FORMED WITH A 3/4" CHAMFER, UNLESS OTHERWISE NOTED ON ARCHITECTURAL DRAWINGS OR SPECIFICATIONS.

SLABS: UNLESS OTHERWISE INDICATED IN THE MECHANICAL OR ELECTRICAL DRAWINGS OR PROJECT SPECIFICATIONS, MECHANICAL PIPES AND ELECTRICAL CONDUITS WHICH PASS THROUGH SLAB ON GRADE, CONCRETE ON STEEL DECK, FRAMED CONCRETE FLOORS AND WALLS DO NOT REQUIRE SLEEVES. IF SLEEVES ARE REQUIRED, THE SLEEVES SHALL BE INSTALLED PRIOR TO PLACING CONCRETE. DO NOT CUT ANY REINFORCING WHICH MAY INTERFERE WITH SLEEVE PLACEMENT. CORING OPENINGS IN CONCRETE IS NOT PERMITTED. NOTIFY THE STRUCTURAL ENGINEER IN ADVANCE OF CONDITIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS.

FOR SLABS ON GRADE AND CONCRETE ON STEEL DECK NO PIPES OR CONDUITS SHALL BE PLACED WITHIN THE INDICATED CONCRETE SLAB THICKNESS AND SHALL BE LOCATED BELOW THE SLAB UNLESS SPECIFICALLY DETAILED OTHERWISE.

CLEAR COVERAGE TO REINFORCING: CLEAR COVERAGE OF CONCRETE REINFORCING SHALL BE PER ACI 318 SECTION 20.6.1.3.1 AS FOLLOWS:

CLEAR COVERAGE OF REINFORCING

Table with 2 columns: Location of concrete, Concrete cover. Row 1: Slab on grade, See plan

POST-INSTALLED ANCHORS (INTO CONCRETE)

DESIGN STANDARDS: POST-INSTALLED ANCHORS INTO CONCRETE FOR THIS PROJECT ARE DESIGNED IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE, ACI 318-14, APPENDIX D SPECIFICATIONS.

POST-INSTALLED ANCHORS: ALL ANCHORS AND THREADED RODS INSTALLED IN EXTERIOR OR DAMP ENVIRONMENTS SHALL BE GALVANIZED OR STAINLESS STEEL TO PROTECT AGAINST CORROSION. INSTALL ONLY WHERE SPECIFICALLY SHOWN IN THE DETAILS OR ALLOWED BY SER. ALL POST-INSTALLED ANCHORS TYPES AND LOCATIONS SHALL BE APPROVED BY THE SER AND SHALL HAVE A CURRENT ICC-EVALUATION SERVICE REPORT THAT PROVIDES RELEVANT DESIGN VALUES NECESSARY TO VALIDATE THE AVAILABLE STRENGTH EXCEEDS THE REQUIRED STRENGTH. SUBMIT CURRENT MANUFACTURER'S DATA AND ICC-ES REPORT TO SER FOR APPROVAL REGARDLESS OF WHETHER OR NOT IT IS A PRE-APPROVED ANCHOR. ANCHORS SHALL BE INSTALLED IN STRICT ACCORDANCE TO ICC-ES REPORT AND MANUFACTURER'S INSTRUCTIONS. NO REINFORCING BARS SHALL BE DAMAGED DURING INSTALLATION OF POST-INSTALLED ANCHORS. SPECIAL INSPECTION SHALL BE PER THE TESTS AND INSPECTIONS SECTION. ANCHOR TYPE, DIAMETER AND EMBEDMENT SHALL BE AS INDICATED ON DRAWINGS.

POST-INSTALLED ANCHORS AT POST-TENSIONED CONCRETE DECKS (EXTENDING INTO THE DEPTH WHERE TENDONS ARE PLACED) SHALL NOT BE USED UNLESS THE TENDONS HAVE BEEN LOCATED AND WILL NOT BE DAMAGED BY THE ANCHOR INSTALLATION.

- 1. ADHESIVE ANCHORS: THE FOLLOWING ADHESIVE-TYPE ANCHORING SYSTEMS HAVE BEEN USED IN THE DESIGN AND SHALL BE USED FOR ANCHORAGE TO CONCRETE AND MASONRY, AS APPLICABLE AND IN ACCORDANCE WITH CORRESPONDING CURRENT ICC-ES REPORT. DRILLED-IN ANCHOR EMBEDMENT LENGTHS SHALL BE AS SHOWN ON DRAWINGS, OR NOT LESS THAN 7 TIMES THE ANCHOR NOMINAL DIAMETER (7D).
A. HILTI "HIT HY-200" - ICC ESR-3187 FOR ANCHORAGE TO CONCRETE ONLY
B. SIMPSON "SET-XP" - ICC ESR-2508 FOR ANCHORAGE TO CONCRETE ONLY
2. EXPANSION ANCHORS:
A. HILTI "KB-TZ"-ICC ESR-1917 FOR ANCHORAGE TO CONCRETE ONLY
B. SIMPSON "STRONG-BOLT"-ICC ESR-3037 FOR ANCHORAGE TO CONCRETE ONLY
3. SCREW ANCHORS:
A. SIMPSON "TITEN HD"-ICC ESR-2713 FOR CONCRETE, ICC ESR-1056 FOR MASONRY

WOOD FRAMING

REFERENCE STANDARDS: CONFORM TO:
1. IBC CHAPTER 23 "WOOD"
2. NDS- "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION"
3. APA PDS-12 PLYWOOD DESIGN SPECIFICATION
4. ANSI/TPI1 "NATIONAL DESIGN STANDARD FOR METAL-PLATE-CONNECTED WOOD TRUSS CONSTRUCTION"
5. BCSP "GUIDE TO GOOD PRACTICE FOR INSTALLING, RESTRAINING AND BRACING OF METAL PLATED CONNECTED WOOD TRUSSES"
6. TPI DSB "RECOMMENDED DESIGN SPECIFICATION FOR TEMPORARY BRACING OF METAL PLATE CONNECTED WOOD TRUSSES"
7. APA REPORT TT-045B "MINIMUM NAIL PENETRATION FOR WOOD STRUCTURAL PANEL CONNECTIONS SUBJECT TO LATERAL LOADS"

DEFERRED SUBMITTALS: SUBMIT PRODUCT DATA AND PROOF OF ICBO APPROVAL FOR FRAMING MEMBERS AND FASTENERS THAT HAVE BEEN DESIGNED BY OTHERS. SUBMIT CALCULATIONS PREPARED BY A PROFESSIONAL ENGINEER IN THE AUTHORITY HAVING JURISDICTION FOR ALL MEMBERS AND CONNECTIONS DESIGNED BY OTHERS ALONG WITH SHOP DRAWINGS. ALL NECESSARY BRIDGING, BLOCKING, BLOCKING PANELS AND WEB STIFFENERS SHALL BE DETAILED AND FURNISHED BY THE SUPPLIER. TEMPORARY AND PERMANENT BRIDGING SHALL BE INSTALLED IN CONFORMANCE WITH THE MANUFACTURER'S SPECIFICATIONS. DEFLECTION LIMITS SHALL BE AS NOTED UNDER DESIGN LOADS SECTION. PRODUCTS INCLUDED ARE:
1. STRUCTURAL COMPOSITE LUMBER (PSL, LSL, LVL, ETC)

IDENTIFICATION: ALL SAWN LUMBER AND PRE-MANUFACTURED WOOD PRODUCTS SHALL BE IDENTIFIED BY THE GRADE MARK OR A CERTIFICATE OF INSPECTION ISSUED BY THE CERTIFYING AGENCY.

MATERIALS

1. FRAMING LUMBER: SHALL BE KILN DRIED OR MC-19, AND GRADED AND MARKED IN CONFORMANCE WITH W.C.L.I.B. STANDARD GRADING RULES FOR WEST COAST LUMBER NO 17. FURNISH TO THE FOLLOWING MINIMUM STANDARDS:

- JOISTS: (2x, 3x, AND 4x MEMBERS) DOUGLAS FIR #2
BEAMS AND STRINGERS: DOUGLAS FIR #1 (INCLUDING 6x AND LARGER MEMBERS)
POSTS AND TIMBERS: DOUGLAS FIR #1
STUDS, PLATES AND MISCELLANEOUS DOUGLAS FIR #2
LIGHT FRAMING:

2. FRAMING LUMBER IN DIRECT CONTACT WITH CONCRETE OR MASONRY, EXPOSED TO WEATHER, OR THAT ARE WITHIN 8" OF EARTH SHALL BE PRESERVATIVE TREATED AND MARKED PER IBC SECTION 2303.1.9 AND AWPA STANDARD U1 AND M4 FOR THE SPECIES, PRODUCT, PRESERVATIVE, AND END USE.

3. LAMINATED VENEER LUMBER (LVL) SHALL BE DESIGNED AND MANUFACTURED PER ASTM D5456. EACH PIECE SHALL BEAR A STAMP, OR STAMPS, NOTING THE NAME AND PLANT NUMBER OF THE MANUFACTURER, THE GRADE, AND THE INDEPENDENT INSPECTION AGENCY'S LOGO. ALL LAMINATED VENEER LUMBER SHALL BE MANUFACTURED USING DOUGLAS-FIR VENEER GLUED WITH A WATERPROOF ADHESIVE MEETING THE REQUIREMENTS OF ASTM D2559 WITH ALL GRAIN PARALLEL WITH THE LENGTH OF THE MEMBER. MINIMUM STRUCTURAL PROPERTIES ARE AS FOLLOWS:

FB = 2,600 PSI, E = 1.9 x 10⁶ PSI, Fv = 285 PSI DESIGN SHOWN ON PLANS IS BASE ON THE MATERIALS MANUFACTURED BY THE WEYERHAEUSER CORPORATION. ALTERNATE MANUFACTURERS MAY BE USED SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND STRUCTURAL ENGINEER.

ENGINEERED WOOD PRODUCTS: THE FOLLOWING MATERIALS ARE BASED ON LUMBER MANUFACTURED BY TRUS-JOIST AND WERE USED FOR THE DESIGN AS SHOWN ON THE PLANS. ALTERNATE PRODUCTS BY OTHER MANUFACTURERS MAY BE SUBSTITUTED PROVIDED THEY HAVE CURRENT ICC APPROVAL FOR EQUIVALENT OR GREATER LOAD AND STIFFNESS PROPERTIES AND ARE REVIEWED AND APPROVED BY THE STRUCTURAL ENGINEER.

TIMBER CONNECTORS: SHALL BE "STRONG-TIE" BY SIMPSON COMPANY AS SPECIFIED IN THEIR LATEST CATALOG. ALTERNATE CONNECTORS BY OTHER MANUFACTURERS MAY BE SUBSTITUTED PROVIDED THEY HAVE CURRENT ICC APPROVAL FOR EQUIVALENT OR GREATER LOAD CAPACITIES AND ARE REVIEWED AND APPROVED BY THE EOR PRIOR TO ORDERING. CONNECTORS SHALL BE INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS. WHERE CONNECTOR STRAPS CONNECT (2) MEMBERS, PLACE ONE-HALF OF THE NAILS OR BOLTS IN EACH MEMBER. WHERE STRAPS ARE USED AS HOLD-DOWNS, NAIL STRAPS TO WOOD FRAMING JUST PRIOR TO DRYWALL APPLICATION, AS LATE AS POSSIBLE IN THE FRAMING PROCESS TO ALLOW THE WOOD TO SHRINK AND THE BUILDING TO SETTLE. PREMATURE NAILING OF THE STRAP MAY LEAD TO STRAP BUCKLING AND POTENTIAL FINISH DAMAGE.

WHERE CONNECTORS ARE IN EXPOSED EXTERIOR APPLICATIONS IN CONTACT WITH PRESERVATIVE TREATED WOOD (PT) OTHER THAN SBX/DOT AND ZINC BORATE IN AN INTERIOR, DRY ENVIRONMENT, CONNECTORS SHALL BE EITHER BATCH HOT-DIPPED GALVANIZED (HDG), MECHANICALLY GALVANIZED (ASTM B695, CLASS 40 OR GREATER) STAINLESS STEEL, OR PROVIDED WITH 1.85 OZ/SF OF ZINC GALVANIZING EQUAL TO OR BETTER THAN SIMPSON ZMAX FINISH.

FASTENERS (NAILS, BOLTS, SCREWS, ETC) ATTACHING TIMBER CONNECTORS JOIST HANGERS, POST CAPS AND BASES, ETC) TO PT WOOD SHALL HAVE SIMILAR CORROSION RESISTANCE PROPERTIES (MATCHING PROTECTIVE TREATMENTS) AS THE PROTECTED CONNECTOR. FASTENERS (NAILS, BOLTS, SCREWS, ETC) ATTACHING SAWN TIMBER MEMBERS OR SHEATHING (SHEAR WALLS) TO PT WOOD BE CORROSION RESISTANT; NAILS AND LAG BOLTS SHALL BE EITHER HDG (ASTM A153) OR STAINLESS STEEL. VERIFY THE SUITABILITY OF THE FASTENER PROTECTION/COATING WITH THE WOOD TREATMENT CHEMICAL MANUFACTURER/SUPPLIER.

PROVIDE STANDARD CUT WASHERS UNDER THE HEADS AND NUTS OF ALL BOLTS AND LAG SCREWS BEARING ON WOOD. ALL NAILS 1/2D AND SMALLER SHALL BE FULL LENGTH COMMON UNLESS NOTED OTHERWISE. 16D NAILS MAY BE 16D SINKERS UNLESS NOTED OTHERWISE. NAIL STRAPS TO WOOD FRAMING AS LATE AS POSSIBLE IN THE FRAMING PROCESS TO ALLOW THE WOOD TO SHRINK AND THE BUILDING TO SETTLE. PREMATURE NAILING OF THE STRAP MAY LEAD TO STRAP BUCKLING AND POTENTIAL FINISH DAMAGE.

FASTENERS: CONFORM TO IBC SECTION 2304.10 "CONNECTIONS AND FASTENERS." UNLESS NOTED ON PLANS, NAIL PER TABLE 2304.10.1. UNLESS NOTED OTHERWISE ALL NAILS SHALL BE COMMON. ALTERNATE NAILS MAY BE USED BUT ARE SUBJECT TO REVIEW AND APPROVAL BY THE STRUCTURAL ENGINEER. SUBSTITUTION OF STAPLES FOR THE NAILING OF RATED SHEATHING IS SUBJECT TO REVIEW BY THE STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION.

LAG SCREWS/BOLTS: CONFORM TO ASTM A307 AND IBC SECTION 2304.10.

NAILING REQUIREMENTS: PROVIDE MINIMUM NAILING IN ACCORDANCE WITH IBC TABLE 2304.10.1. "FASTENING SCHEDULE" EXCEPT AS NOTED ON THE DRAWINGS. NAILING FOR ROOF/FLOOR DIAPHRAGMS/SHEAR WALLS SHALL BE PER DRAWINGS. NAILS SHALL BE DRIVEN FLUSH AND SHALL NOT FRACTURE THE SURFACE OF SHEATHING.

WOOD FASTENERS: NAIL SIZES SPECIFIED ON DRAWINGS ARE BASED ON THE FOLLOWING SPECIFICATIONS:

WOOD FASTENERS

Table with 4 columns: Drawing ID, Nail Name, Nail Diameter, Nail Length. Row 1: "6d", 6d COMMON, 0.113", 2". Row 2: "8d BOX", 8d BOX, 0.113", 2 1/2". Row 3: "8d", 8d COMMON, 0.131", 2 1/2". Row 4: "10d-F", 10d FRAMER, 0.131", 3". Row 5: "10d", 10d SHEAR, 0.148", 2 1/4". Row 6: "16d", 16d SINKER, 0.148", 3 1/4". Row 7: "16d-S", 16d SHORT, 0.131", 3 1/4"

WOOD FRAMING (CONT)

IF CONTRACTOR PROPOSES THE USE OF ALTERNATE NAILS, THEY SHALL SUBMIT NAIL SPECIFICATIONS TO THE STRUCTURAL ENGINEER (PRIOR TO CONSTRUCTION) FOR REVIEW AND APPROVAL.

NAILS: SHEATHING FASTENERS TO FRAMING SHALL BE DRIVEN FLUSH TO FACE OF SHEATHING WITH NO COUNTERSINKING PERMITTED.

HOT DIPPED GALVANIZED NAILS, BOLTS AND METAL PLATES: ALL NAILS, BOLTS AND METAL PLATES IN CONTACT WITH PRESSURE TREATED (INCLUDING FIRE-RETARDANT TREATED) LUMBER SHALL BE HOT DIPPED GALVANIZED. HARDWARE IN CONTACT WITH SBX/DOT AND ZINC BORATE TREATED IN AN INTERIOR, DRY ENVIRONMENT IS NOT REQUIRED TO BE HOT DIPPED GALVANIZED.

STANDARD LIGHT-FRAME CONSTRUCTION: UNLESS NOTED ON THE PLANS, CONSTRUCTION SHALL CONFORM TO IBC SECTION 2308, "CONVENTIONAL LIGHT-FRAME CONSTRUCTION."

NAILERS ON STEEL COLUMNS AND BEAMS: WOOD 3x NAILERS ARE GENERALLY REQUIRED ON ALL HSS COLUMNS AND STEEL BEAMS ABUTTING OR EMBEDDED WITHIN WOOD FRAMING. UNLESS NOTED OTHERWISE, ATTACH WITH 5/8" DIAMETER BOLTS OR WELDED THREADED STUDS @ 16" ON CENTERS. WOOD NAILERS ON BEAMS SUPPORTING JOIST HANGERS SHALL NOT OVERHANG THE BEAM FLANGE BY MORE THAN 1/4".

MOISTURE CONTENT: WOOD MATERIAL USED FOR THIS PROJECT SHALL HAVE MAXIMUM MOISTURE CONTENT OF 19% EXCEPT FOR THE PRESSURE-TREATED WOOD SILL PLATE. REFER TO TESTING AND INSPECTIONS FOR THE VERIFICATION OF THESE LIMITS. THE MAXIMUM MOISTURE CONTENT REQUIRED MAY BE LESS THAN 19% WHEN BASED ON A PARTICULAR CLADDING/INSULATION SYSTEM. REFER TO THE ARCHITECT'S DRAWINGS, AND PROJECT SPECIFICATIONS, OR WITH CLADDING INSTALLER FOR MAXIMUM RECOMMENDED MOISTURE CONTENT.

Professional Engineer License stamp for Larry Skelton, State of Idaho, No. 16200, dated 06/06/18.

CRANG & SOKKUM ARCHITECT
200 BROAD STREET
BOISE, IDAHO
PHONE: 208-343-4635 • FAX: 208-343-1858

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GARDEN CITY, ID**
200 BROAD STREET
BOISE, ID 83702
(208) 343-4635 • FAX (208) 343-1858
http://www.csrhoa.com

**PERM SET
FOR CONSTRUCTION
6/25/18**

Table with 2 columns: PROJECT, DRAWN, DATE, CHECKED. Row 1: 18059.00, AP, 05/02/18, LS

REVISED
5 ADDENDUM 5 2018-06-06

PROJECT
18059.00
DATE
05/02/18
DRAWN
AP
CHECKED
LS

GENERAL NOTES

S0.02
ORIGINAL SHEET SIZE
30" x 42"

AXIOM innovative engineering solutions
Axiom Project
188
ALBUQUERQUE, NM
BOISE, ID | Salt Lake City, UT | Albuquerque, NM

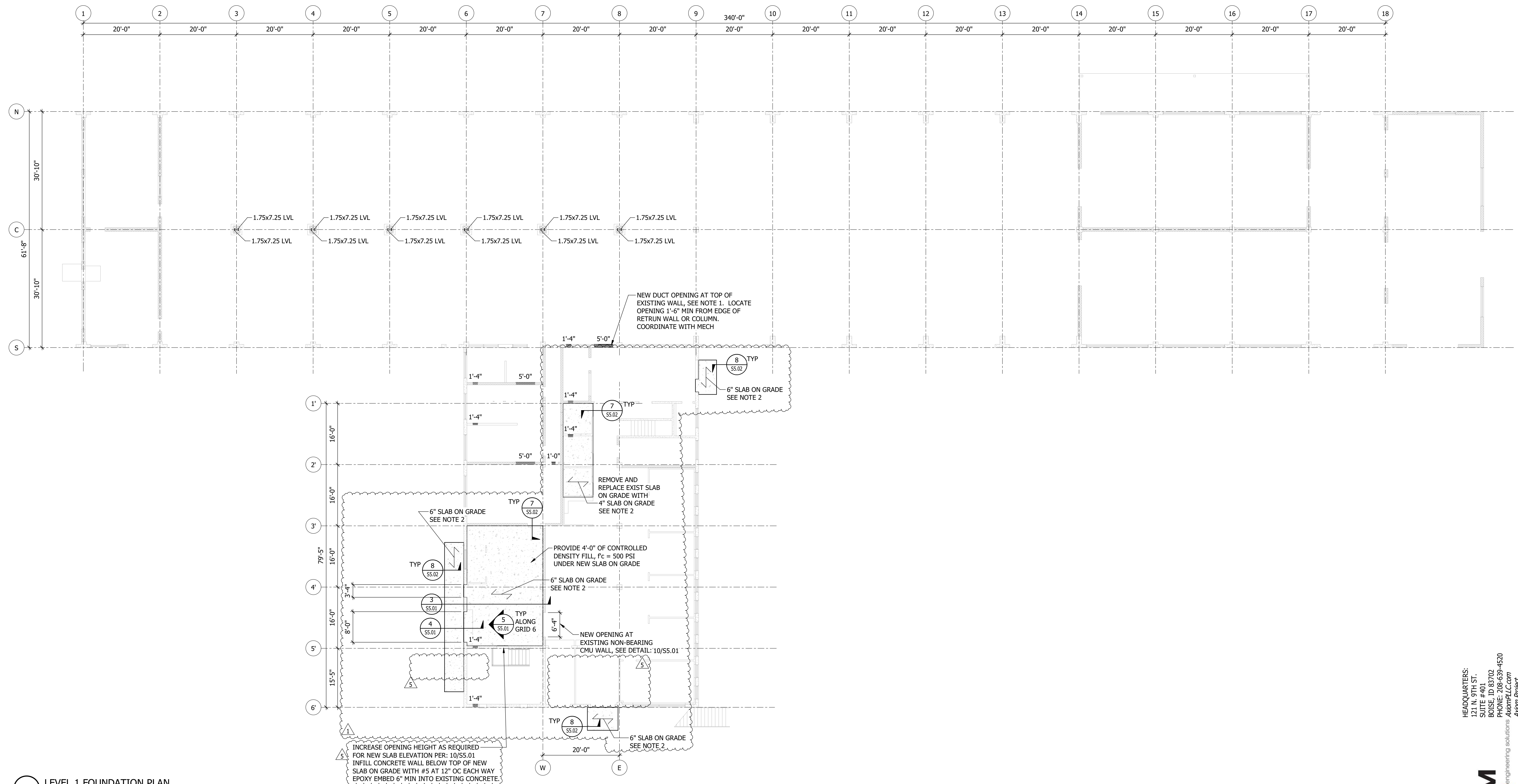


FOUNDATION NOTES

1. 'X'-X" INDICATES NEW OPENING IN EXISTING WALL. LOCATE AS SHOWN ON PLAN, COORDINATE EXACT LOCATION WITH MECHANICAL. REINFORCE OPENING, SEE 10/SS.01. CONTACT STRUCTURAL EOR PRIOR TO ANY ADDITIONAL OPENINGS FOR APPROVAL.
2. SLAB ON GRADE INDICATED ON PLAN, REINF SHALL BE:
6" SLAB = #4 @ 18" OC EACH WAY, 2" CLEAR FROM TOP OF CONC
4" SLAB = #4 @ 18" OC EACH WAY, 1 1/2" CLEAR FROM TOP OF CONC

GENERAL NOTES

- ALL DIMENSIONS AND ELEVATIONS ON THE STRUCTURAL PLANS SHALL BE VERIFIED BY THE CONTRACTOR WITH THE LATEST ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER IMMEDIATELY.
- CONTRACTOR SHALL FIELD VERIFY EXISTING STRUCTURAL CONDITIONS AND PROPOSED ALTERATIONS, CONTRACTOR SHALL CONTACT ARCHITECT AND STRUCTURAL ENGINEER BEFORE PERFORMING ALTERATION WORK.
- FOR GENERAL NOTES: CONCRETE STANDARD DETAILS: 50.00 SERIES SHEETS WOOD STANDARD DETAILS: 55.00 SERIES SHEETS



1 LEVEL 1 FOUNDATION PLAN
SCALE: 3/32" = 1'-0"

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5800 COFFEY STREET
GARDEN CITY, ID



PERMIT SET
CONSTRUCTION
6/25/18

PROJECT	DATE
18059.00	05/02/18
DRAWN	CHECKED
AP	LS

REVISED	
1 ADDENDUM 1	2018-05-15
5 ADDENDUM 5	2018-06-06

SHEET TITLE

FOUNDATION PLAN

SHEET

S1.01

ORIGINAL SHEET SIZE
30" x 42"

HEADQUARTERS:
121 N. 9TH ST.
SUITE # 401
BOISE, ID 83702
PHONE: 208-639-4520
AXIOM2LLC.COM
AXIOM PROJECT 288
ALBUQUERQUE, NM
BOISE, ID | Salt Lake City, UT | Albuquerque, NM
CONSULTING ENGINEERS



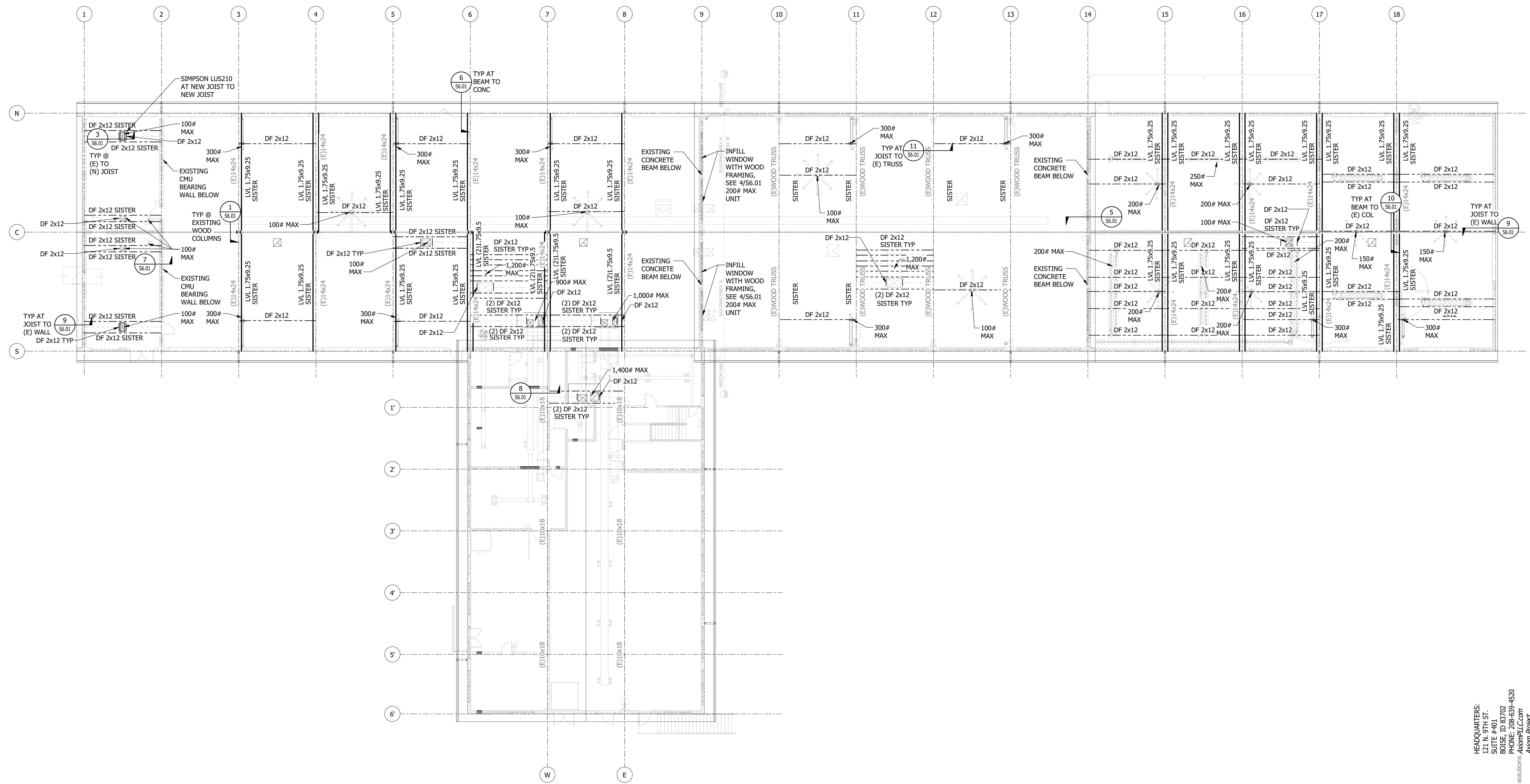


FLOOR FRAMING NOTES

- ALL SISTERED BEAMS TO BE CONNECTED PER IBC FASTENING SCHEDULE FOR BUILT-UP GIRDERS AND BEAMS, UNO.
- WHERE CROSS BRIDGING IS REMOVED TO ALLOW FOR NEW SISTER JOIST, REMOVE AND REPLACE CROSS BRIDGING.

GENERAL NOTES

- ALL DIMENSIONS AND ELEVATIONS ON THE STRUCTURAL PLANS SHALL BE VERIFIED BY THE CONTRACTOR WITH THE LATEST ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER IMMEDIATELY.
- CONTRACTOR SHALL FIELD VERIFY EXISTING STRUCTURAL CONDITIONS. IF ANY DISCREPANCY OCCURS BETWEEN EXISTING CONDITIONS AND PROPOSED ALTERATIONS, CONTRACTOR SHALL CONTACT ARCHITECT AND STRUCTURAL ENGINEER BEFORE PERFORMING ALTERATION WORK.
- FOR GENERAL NOTES: 50.00 SERIES SHEETS
CONCRETE STANDARD DETAILS: 55.00 SERIES SHEETS
WOOD STANDARD DETAILS: 55.60 SERIES SHEETS



1 LEVEL 2 FRAMING PLAN
SCALE: 3/32" = 1'-0"

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5800 COFFEY STREET
GARDEN CITY, ID



CRAG A. SLOCUM, ARCHITECT
200 BROAD STREET
BOISE, IDAHO
PHONE: 208-343-4635 • FAX: 208-343-1858

THESE DRAWINGS AND SPECIFICATIONS, AS PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND CONTROL, AND IN ACCORDANCE WITH THE PROFESSIONAL SEAL AND LICENSE NO. 16200, STATE OF IDAHO, ARE TRUE AND CORRECT. I AM NOT PROVIDING CONTRACT ADMINISTRATION SERVICES FOR THIS PROJECT. MY LIABILITY IS LIMITED TO THE PROFESSIONAL SERVICES PROVIDED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND CONTROL.

PERMIT SET
CONSTRUCTION
6/25/18

PROJECT 18059.00	DATE 05/02/18
DRAWN AP	CHECKED LS

REVISED

SHEET TITLE
FRAMING PLAN

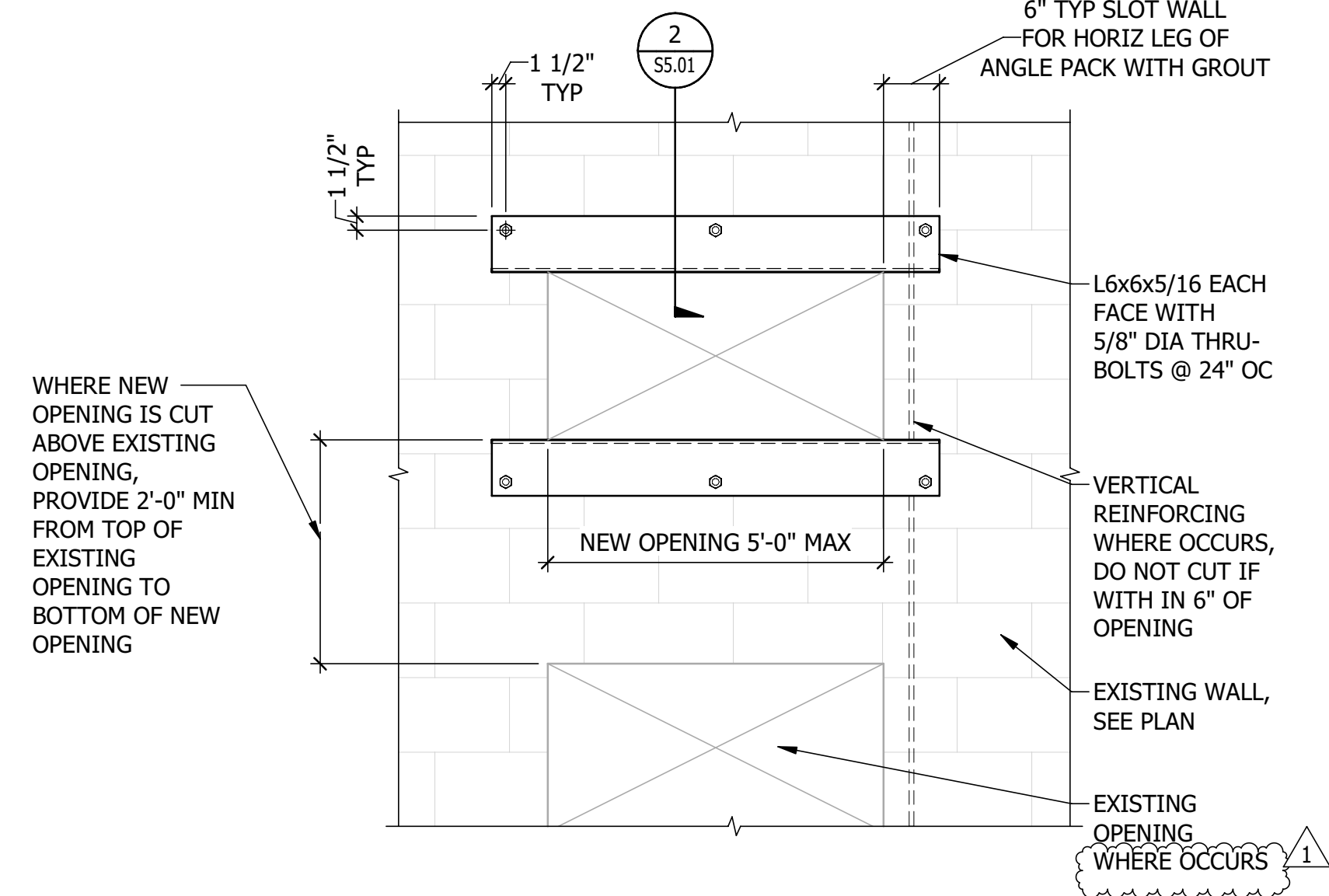
SHEET

S1.02

ORIGINAL SHEET SIZE
30" x 42"

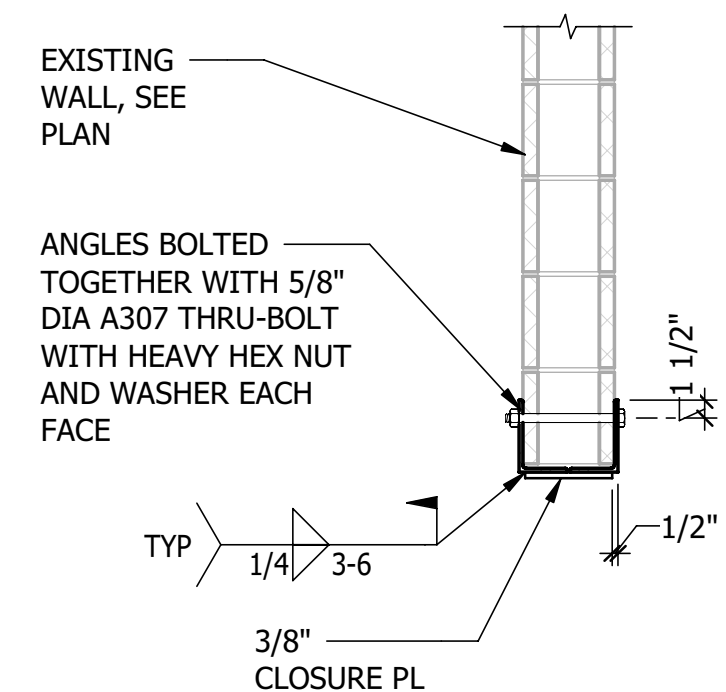
HEADQUARTERS:
121 N. 9TH ST.
SUITE # 401
BOISE, ID 83702
PHONE: 208-639-4520
AXIOMZLLC.COM
AXIOM PROJECT 068
ALBUQUERQUE, NM
CONTRACT NO. 18-000001





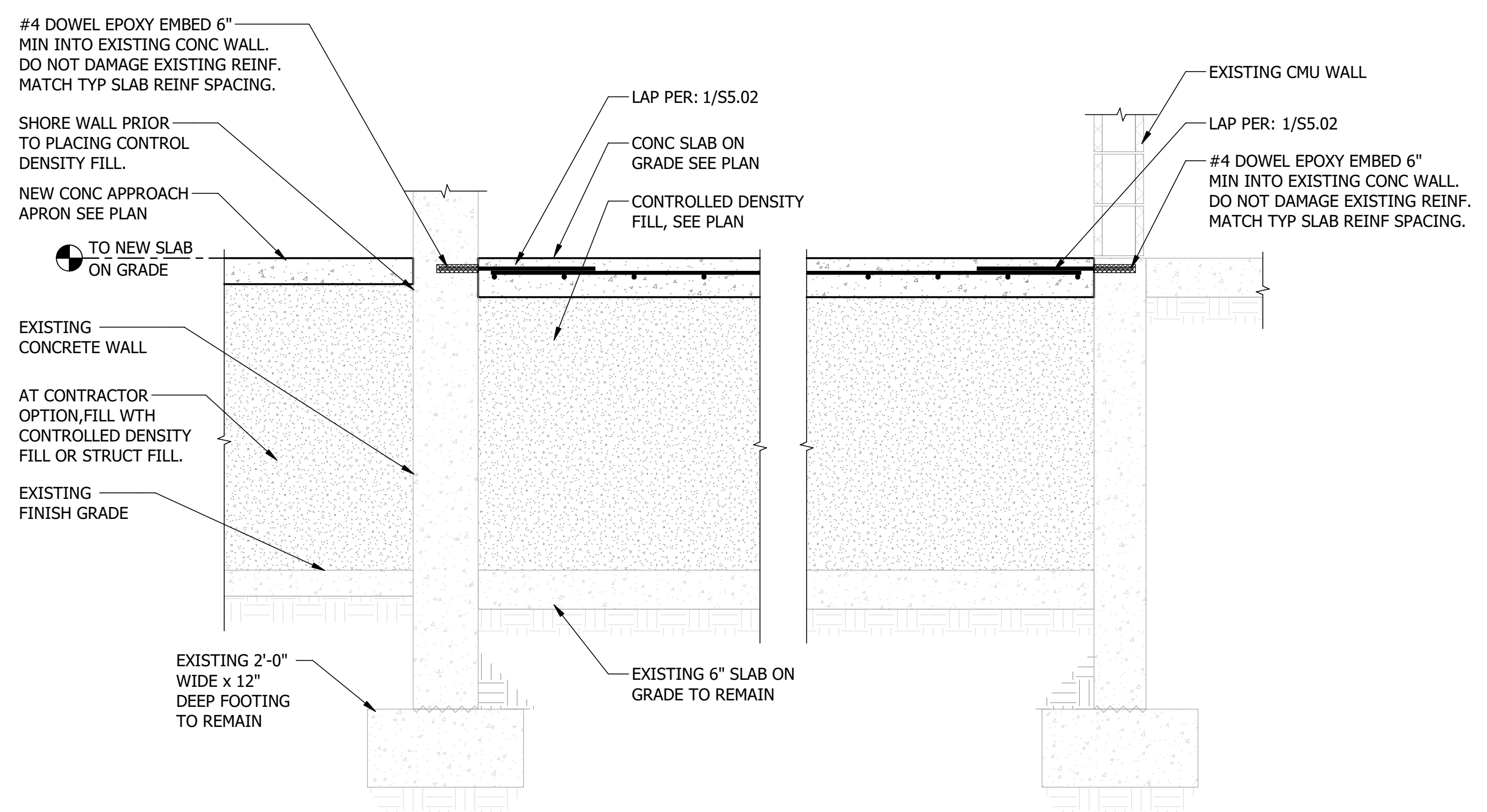
- NOTES:
1. SAWCUT MASONRY AND INSERT HEAD REINFORCING ANGLES; INSTALL BOLTS THEN REMOVE 2'-0" STRIP OF MASONRY AT JAMBS TO INSTALL JAMB REINFORCING, THEN COMPLETE REMOVAL OF MASONRY.
 2. MIRROR DETAIL AT BOTTOM OF OPENING WHERE NEW OPENING IS LOCATED ABOVE FLOOR LEVEL.
 3. NEW OPENINGS LOCATED ABOVE ANOTHER WALL OPENING SHALL MAINTAIN 24" MIN CLEARANCE BETWEEN OPENINGS.

1 NEW OPENING IN EXISTING WALL
SCALE: NTS

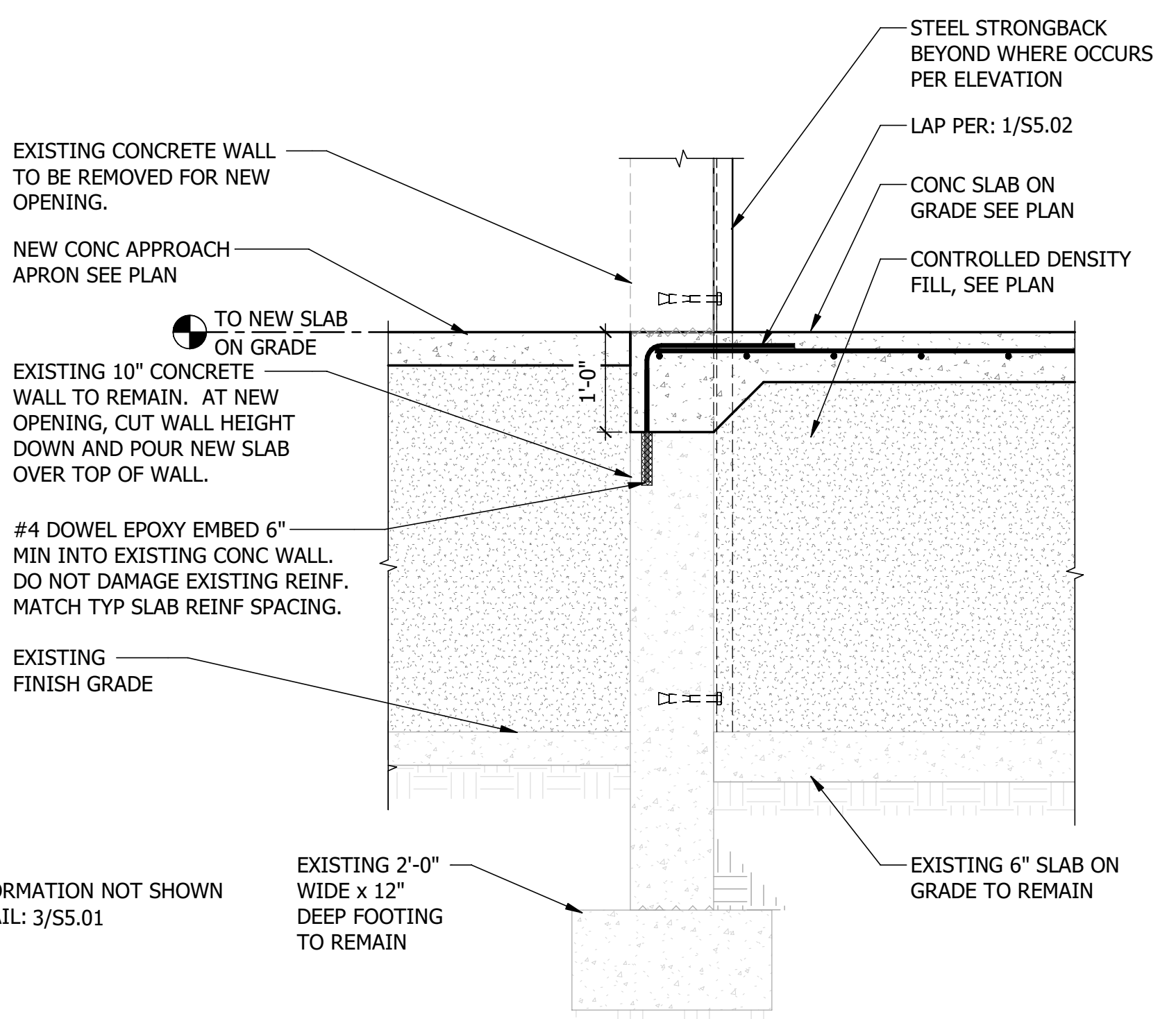


- NOTES:
1. FOR INFORMATION NOT SHOWN, SEE 1/S5.01
 2. CONTRACTOR'S OPTION: 3/8" BENT PLATE WITH 6" LEGS EACH FACE, MAY BE USED IN LIEU OF ANGLE EACH FACE

2 JAMB AND HEAD DETAIL
SCALE: NTS
REF SHEET: S5.01

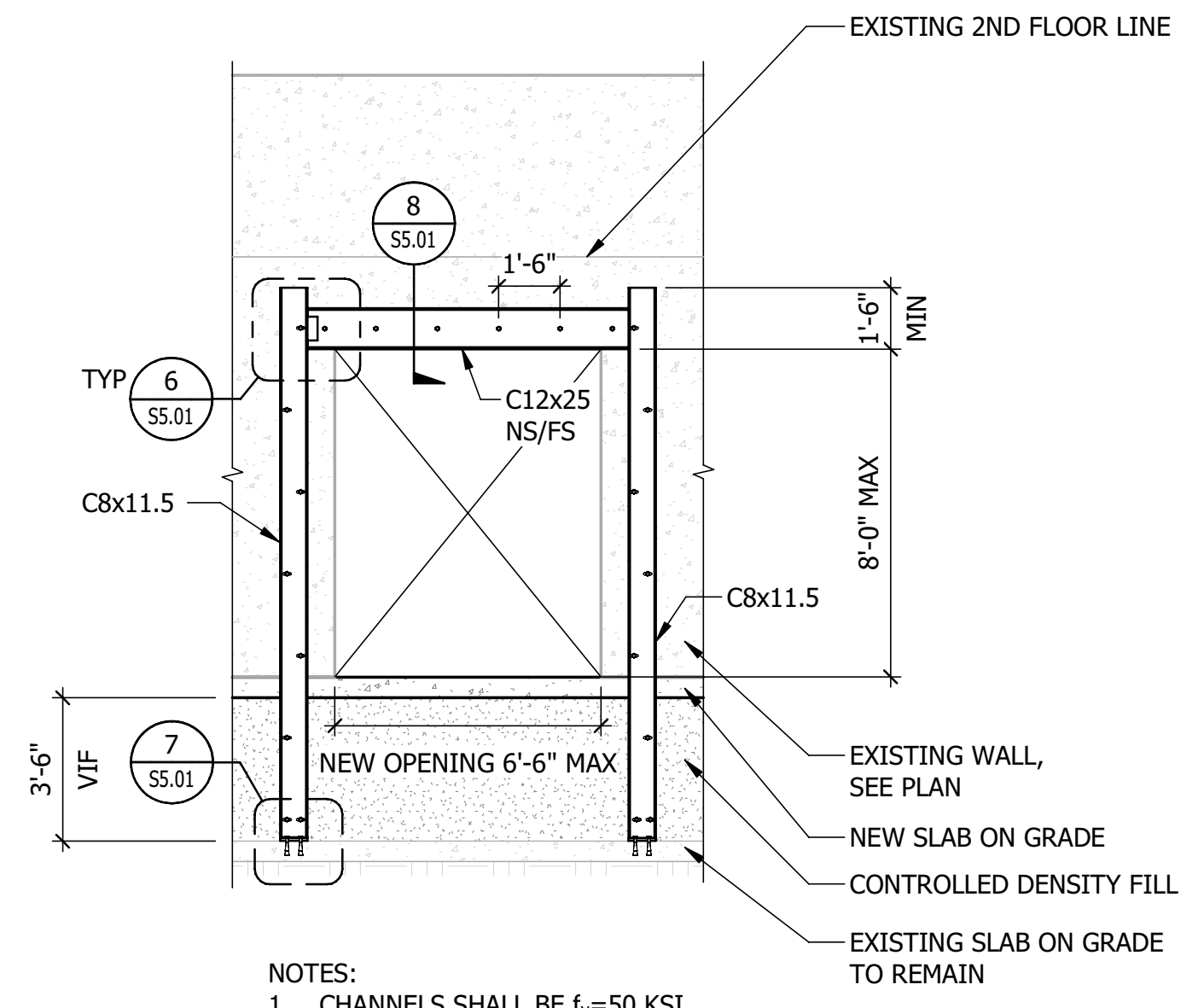


3 INFILL DETAIL
SCALE: NTS



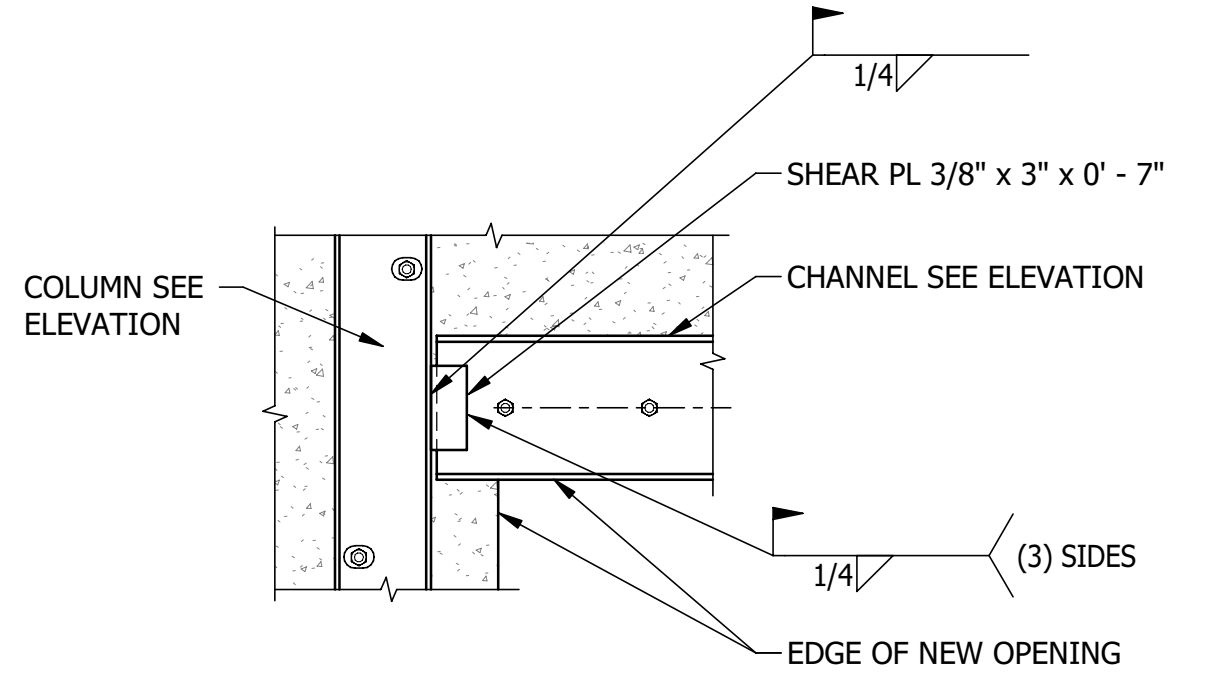
- NOTES:
1. FOR INFORMATION NOT SHOWN SEE DETAIL: 3/S5.01

4 INFILL DETAIL AT NEW OPENING
SCALE: NTS

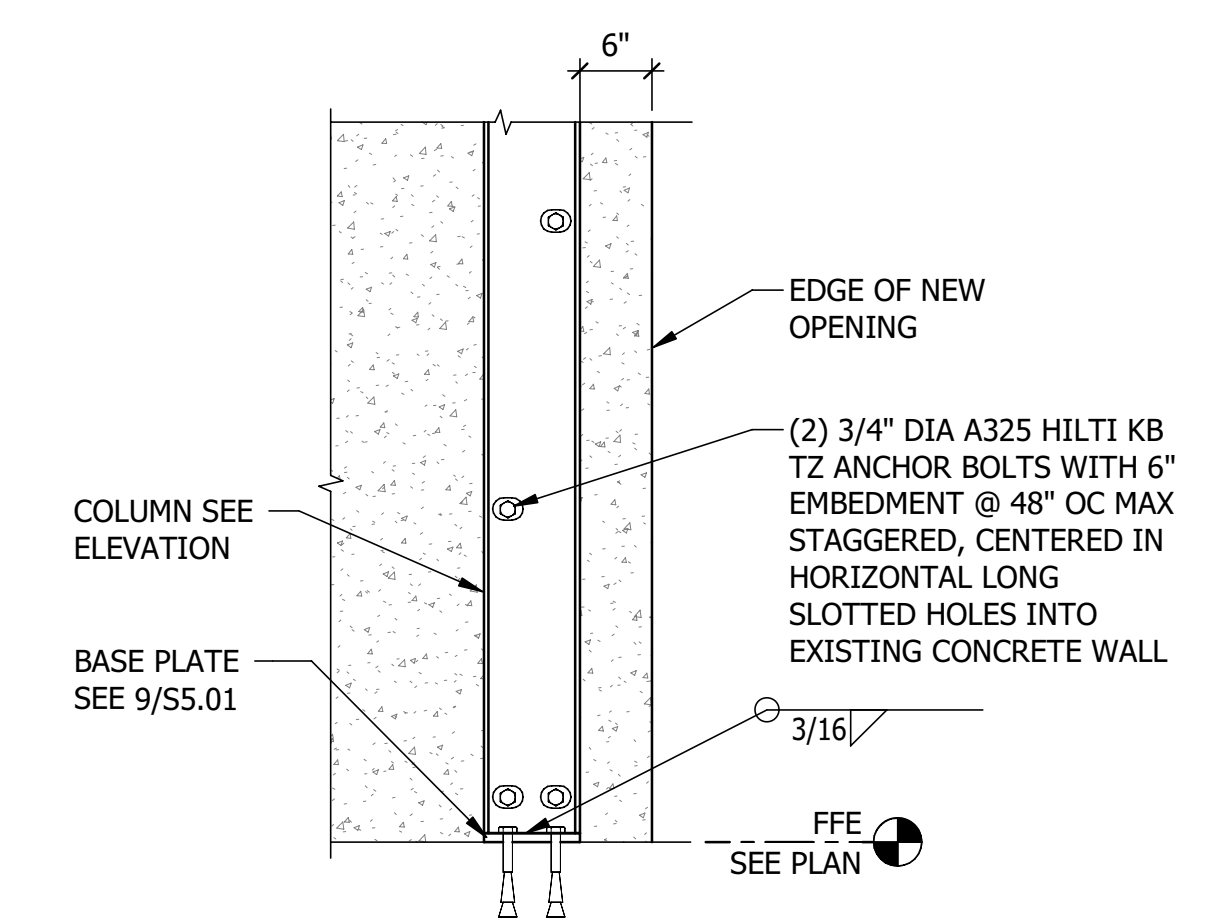


- NOTES:
1. CHANNELS SHALL BE $f_y = 50$ KSI

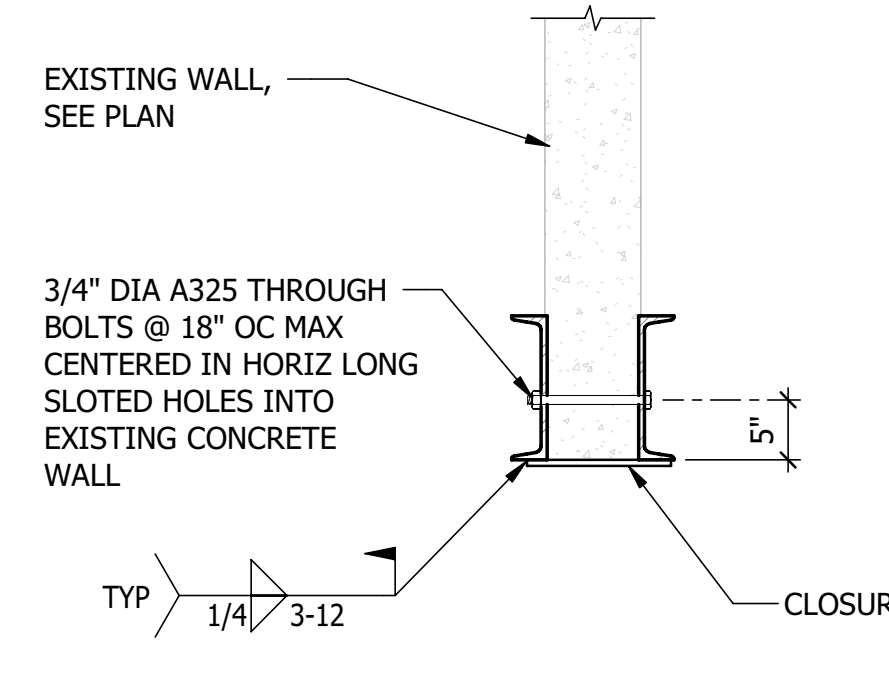
5 NEW OPENING IN EXISTING CONCRETE WALL
SCALE: NTS



6 HEADER AT NEW OPENING
SCALE: NTS
REF SHEET: S5.01

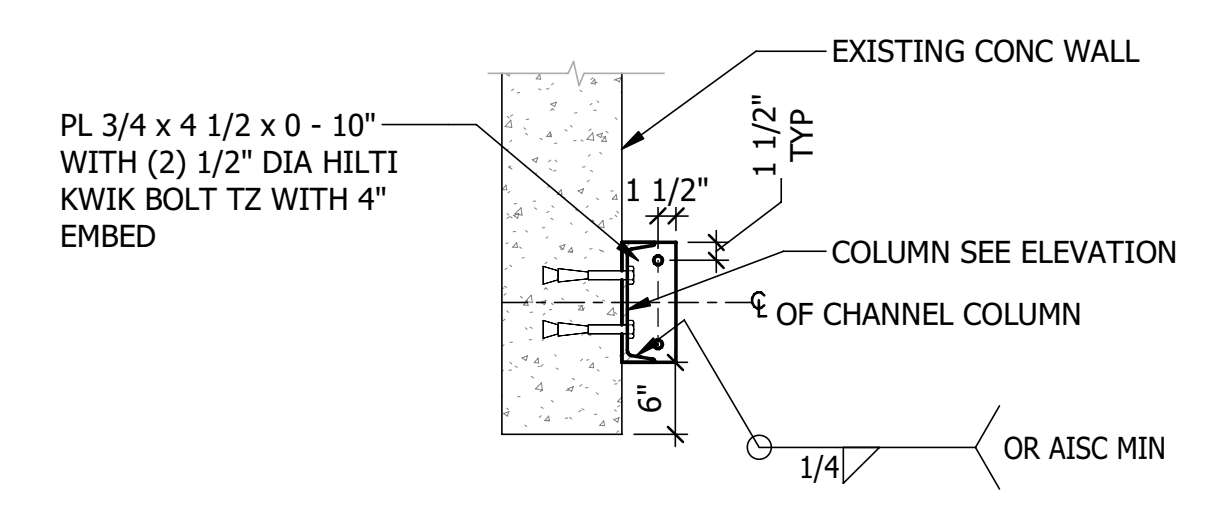


7 COLUMN AT NEW OPENING
SCALE: NTS
REF SHEET: S5.01

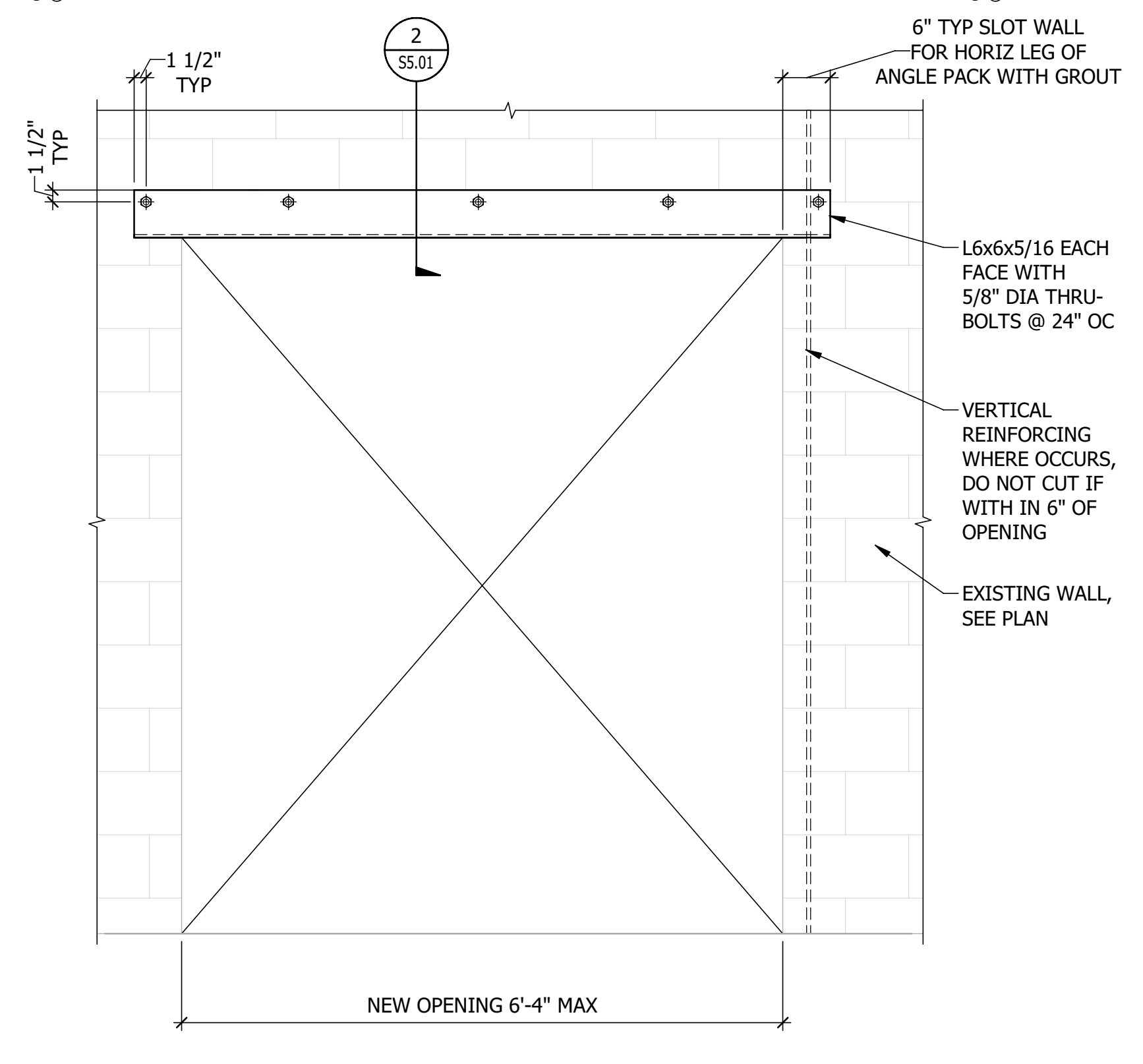


- NOTES:
1. FOR INFORMATION NOT SHOWN, SEE 5/S5.01
 2. PLATE TO BE 1/2" FROM EDGE OF OPENING (EACH SIDE)

8 LINTEL HEAD DETAIL
SCALE: NTS
REF SHEET: S5.01

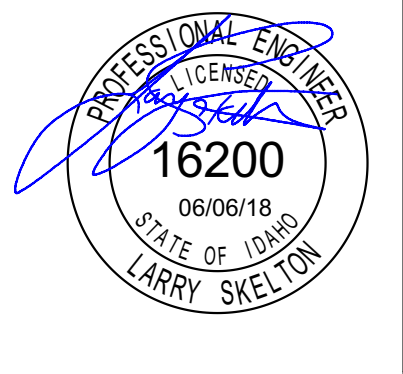


9 BASE PLATE SECTION
SCALE: NTS



- NOTES:
1. SAWCUT MASONRY AND INSERT HEAD REINFORCING ANGLES; INSTALL BOLTS THEN REMOVE 2'-0" STRIP OF MASONRY AT JAMBS TO INSTALL JAMB REINFORCING, THEN COMPLETE REMOVAL OF MASONRY.
 2. MIRROR DETAIL AT BOTTOM OF OPENING WHERE NEW OPENING IS LOCATED ABOVE FLOOR LEVEL.
 3. NEW OPENINGS LOCATED ABOVE ANOTHER WALL OPENING SHALL MAINTAIN 24" MIN CLEARANCE BETWEEN OPENINGS.

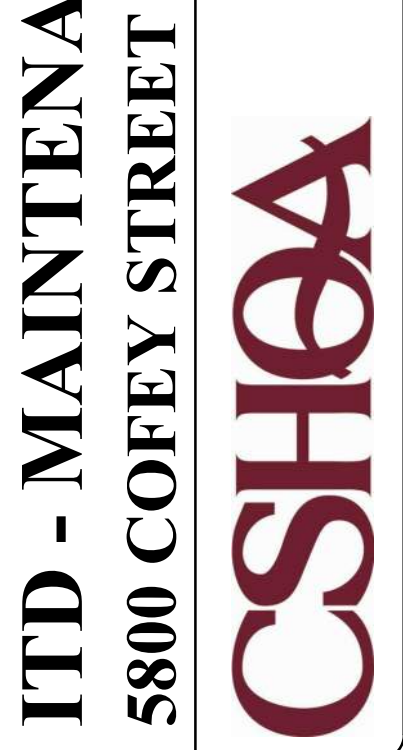
10 NEW OPENING IN EXISTING WALL
SCALE: NTS



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200 BROAD STREET
BOISE, ID 83702
(208) 343-4635 • FAX (208) 343-1858
http://www.cshoa.com



PERMITS FOR SET
CONSTRUCTION
6/25/18

PROJECT	18059.00	DATE	05/02/18
DRAWN	AP	CHECKED	LS

REVISED	1	ADDENDUM 1	2018-05-15
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CONCRETE AND MASONRY DETAILS (GENERAL)
SHEET

S5.01

ORIGINAL SHEET SIZE
30" x 42"

HEADQUARTERS:
121 N. 9TH ST.
SUITE #401
BOISE, ID 83702
PHONE: 208-639-4520
AXIOM PROJECTS
1000 S. GARDEN CITY
ALBUQUERQUE, NM
CONSULTING ENGINEERS, P.C.

AXIOM
innovative engineering solutions

Boise, ID | Salt Lake City, UT | Albuquerque, NM

$f_c = 3000$ PSI						$f_c = 4000, 4500$ PSI						$f_c = 5000$ PSI					
BAR SIZE	TOP BARS	OTHER BARS	BAR SIZE	TOP BARS	OTHER BARS	BAR SIZE	TOP BARS	OTHER BARS	BAR SIZE	TOP BARS	OTHER BARS	BAR SIZE	TOP BARS	OTHER BARS	BAR SIZE	TOP BARS	OTHER BARS
#3	12"	17"	#3	19"	15"	#3	17"	13"	#3	6"	#3	6"	12"	17"	#3	19"	15"
#4	29"	22"	#4	25"	19"	#4	23"	17"	#4	8"	#4	7"	15"	22"	#4	25"	19"
#5	36"	28"	#5	31"	24"	#5	28"	22"	#5	10"	#5	9"	19"	29"	#5	31"	24"
#6	43"	33"	#6	37"	29"	#6	34"	26"	#6	12"	#6	10"	27"	36"	#6	37"	29"
#7	63"	48"	#7	54"	42"	#7	49"	38"	#7	14"	#7	12"	39"	51"	#7	54"	42"
#8	72"	55"	#8	62"	48"	#8	56"	43"	#8	16"	#8	14"	45"	60"	#8	62"	48"
#9	81"	63"	#9	70"	54"	#9	63"	48"	#9	18"	#9	15"	51"	69"	#9	70"	54"
#10	91"	70"	#10	79"	61"	#10	71"	54"	#10	20"	#10	17"	57"	77"	#10	79"	61"
#11	101"	78"	#11	87"	67"	#11	78"	60"	#11	22"	#11	19"	63"	85"	#11	87"	67"

(FOR GRADE 60, UNCOATED BARS, NORMAL WEIGHT CONCRETE)
MINIMUM STRAIGHT DEVELOPMENT LENGTH FOR BARS IN TENSION (L_d)

$f_c = 3000$ PSI						$f_c = 4000, 4500$ PSI						$f_c = 5000$ PSI					
BAR SIZE	TOP BARS	OTHER BARS	BAR SIZE	TOP BARS	OTHER BARS	BAR SIZE	TOP BARS	OTHER BARS	BAR SIZE	TOP BARS	OTHER BARS	BAR SIZE	TOP BARS	OTHER BARS	BAR SIZE	TOP BARS	OTHER BARS
#3	28"	22"	#3	25"	19"	#3	22"	17"	#3	9"	#3	8"	12"	17"	#3	25"	19"
#4	38"	29"	#4	33"	25"	#4	29"	23"	#4	11"	#4	10"	15"	22"	#4	33"	25"
#5	47"	36"	#5	41"	31"	#5	36"	28"	#5	14"	#5	12"	18"	29"	#5	41"	31"
#6	56"	43"	#6	49"	37"	#6	44"	34"	#6	17"	#6	15"	21"	34"	#6	49"	37"
#7	81"	63"	#7	71"	54"	#7	63"	49"	#7	20"	#7	17"	24"	39"	#7	71"	54"
#8	93"	72"	#8	81"	62"	#8	72"	56"	#8	22"	#8	19"	26"	41"	#8	81"	62"
#9	105"	81"	#9	91"	70"	#9	81"	63"	#9	25"	#9	22"	28"	43"	#9	91"	70"
#10	118"	91"	#10	102"	79"	#10	92"	71"	#10	28"	#10	25"	30"	45"	#10	102"	79"
#11	131"	101"	#11	114"	87"	#11	102"	78"	#11	31"	#11	27"	32"	47"	#11	114"	87"

MINIMUM CLASS "B" LAP SPlice LENGTH FOR BARS IN TENSION (L_{sb})

$f_c = 3000$ PSI				$f_c = 4000-5000$ PSI			
BAR SIZE	ALL BARS	BAR SIZE	ALL BARS	BAR SIZE	ALL BARS	BAR SIZE	ALL BARS
#3	6"	#3	6"	#3	6"	#3	6"
#4	8"	#4	7"	#4	8"	#4	7"
#5	10"	#5	9"	#5	10"	#5	9"
#6	12"	#6	10"	#6	12"	#6	10"
#7	14"	#7	12"	#7	14"	#7	12"
#8	16"	#8	14"	#8	16"	#8	14"
#9	18"	#9	15"	#9	18"	#9	15"
#10	20"	#10	17"	#10	20"	#10	17"
#11	22"	#11	19"	#11	22"	#11	19"

MINIMUM EMBEDMENT LENGTHS FOR STANDARD END HOOKS (L_{eh})

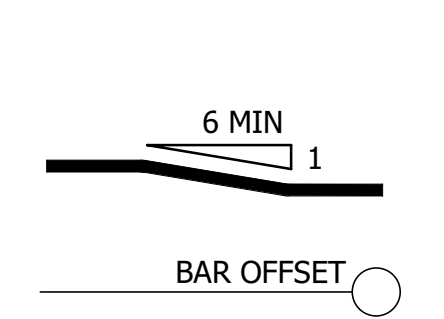
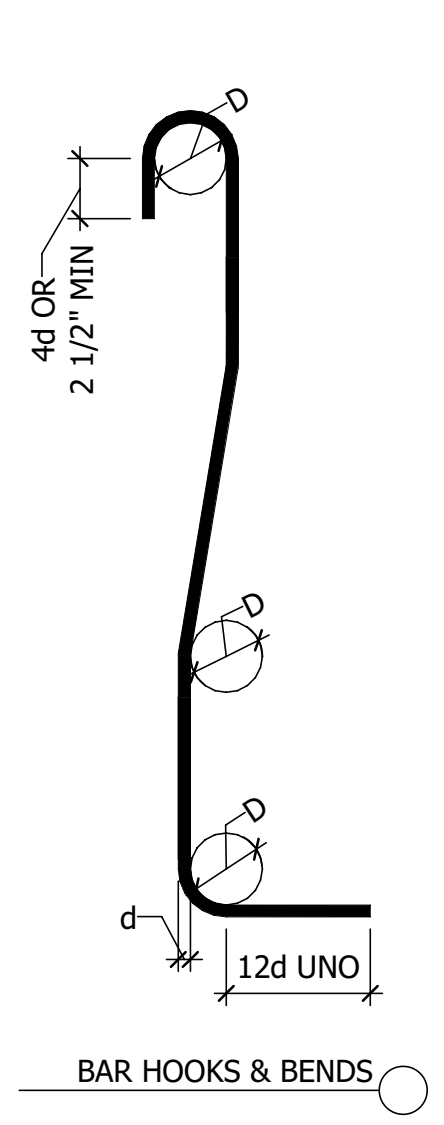
$f_c = 3000$ PSI				$f_c = 4000-5000$ PSI			
BAR SIZE	ALL BARS	BAR SIZE	ALL BARS	BAR SIZE	ALL BARS	BAR SIZE	ALL BARS
#3	9"	#3	8"	#3	9"	#3	8"
#4	11"	#4	10"	#4	11"	#4	10"
#5	14"	#5	12"	#5	14"	#5	12"
#6	17"	#6	15"	#6	17"	#6	15"
#7	20"	#7	17"	#7	20"	#7	17"
#8	22"	#8	19"	#8	22"	#8	19"
#9	25"	#9	22"	#9	25"	#9	22"
#10	28"	#10	25"	#10	28"	#10	25"
#11	31"	#11	27"	#11	31"	#11	27"

MINIMUM STRAIGHT DEVELOPMENT LENGTH FOR BARS IN COMPRESSION (L_{dc})

$f_c = 3000-5000$ PSI	
BAR SIZE	ALL BARS
#3	12"
#4	15"
#5	19"
#6	23"
#7	27"
#8	30"
#9	34"
#10	39"
#11	43"

MINIMUM LAP SPlice LENGTHS FOR BARS IN COMPRESSION (L_{dc})

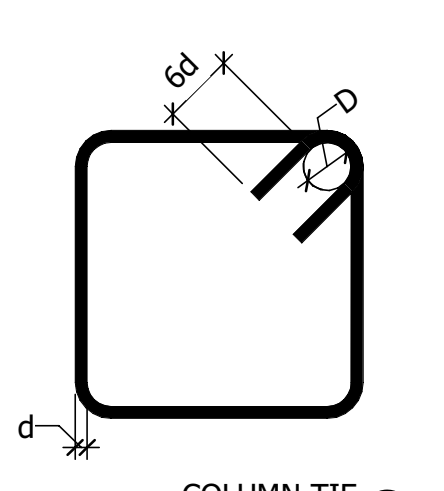
- NOTES:
- "TOP BARS" ARE HORIZ BARS WITH MORE THAN 12" DEPTH OF CONCRETE CAST BELOW THEM.
 - IF CLEAR CONCRETE COVER IS NOT GREATER THAN THE DIAMETER OF THE BAR OR THE CENTER TO CENTER SPACING IS NOT GREATER THAN 2 BAR DIAMETERS, THEN VALUES SHALL BE INCREASED BY A FACTOR OF 1.5.
 - END COVER FOR HOOKS MUST BE EQUAL TO OR GREATER THAN 2". SIDE COVER MUST BE EQUAL TO OR GREATER THAN 2 1/2". CLASS B - MORE THAN HALF OF THE BARS ARE SPLICED WITHIN A REQUIRED LAP LENGTH. CLASS A - LAP SPLICES MAY BE USED WHERE LESS THAN HALF OF THE BARS ARE SPLICED WITHIN A REQUIRED LAP LENGTH BY DIVIDING THE CLASS B LENGTH BY A FACTOR OF 1.3.
 - REBAR BENDS FOR HOOKS, SEE 2/S5.02



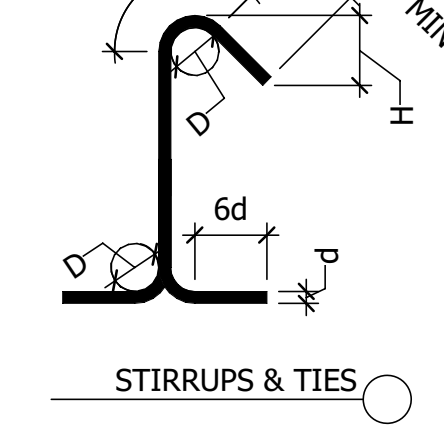
PRINCIPLE REINFORCING FOR BAR HOOKS AND BENDS		
BAR	D	H
#3 - #8	6d	
#9 - #11	8d	
#14 AND #18	10d	

SEISMIC STIRRUP AND TIES HOOK DIMENSIONS ALL GRADES OF STEEL		
BAR	D	H (APPROXIMATE)
#3	1 1/2"	3"
#4	2"	3"
#5	2 1/2"	3 3/4"

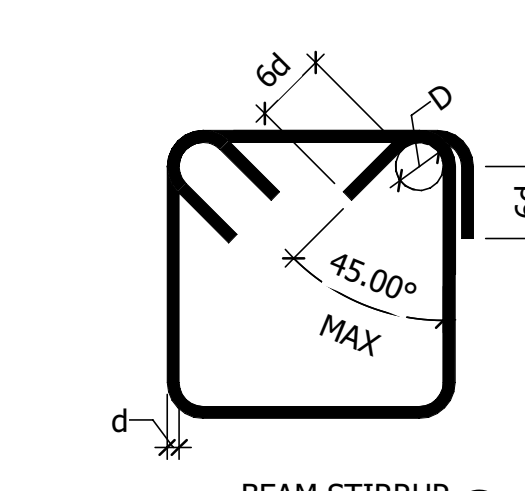
- NOTES:
- D = FINISHED BEND DIAMETER
 - d = BAR DIAMETER



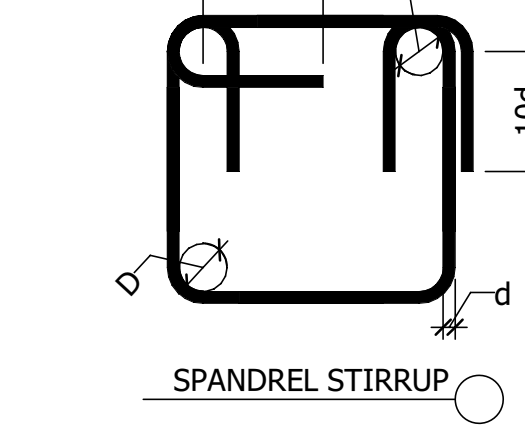
COLUMN TIE



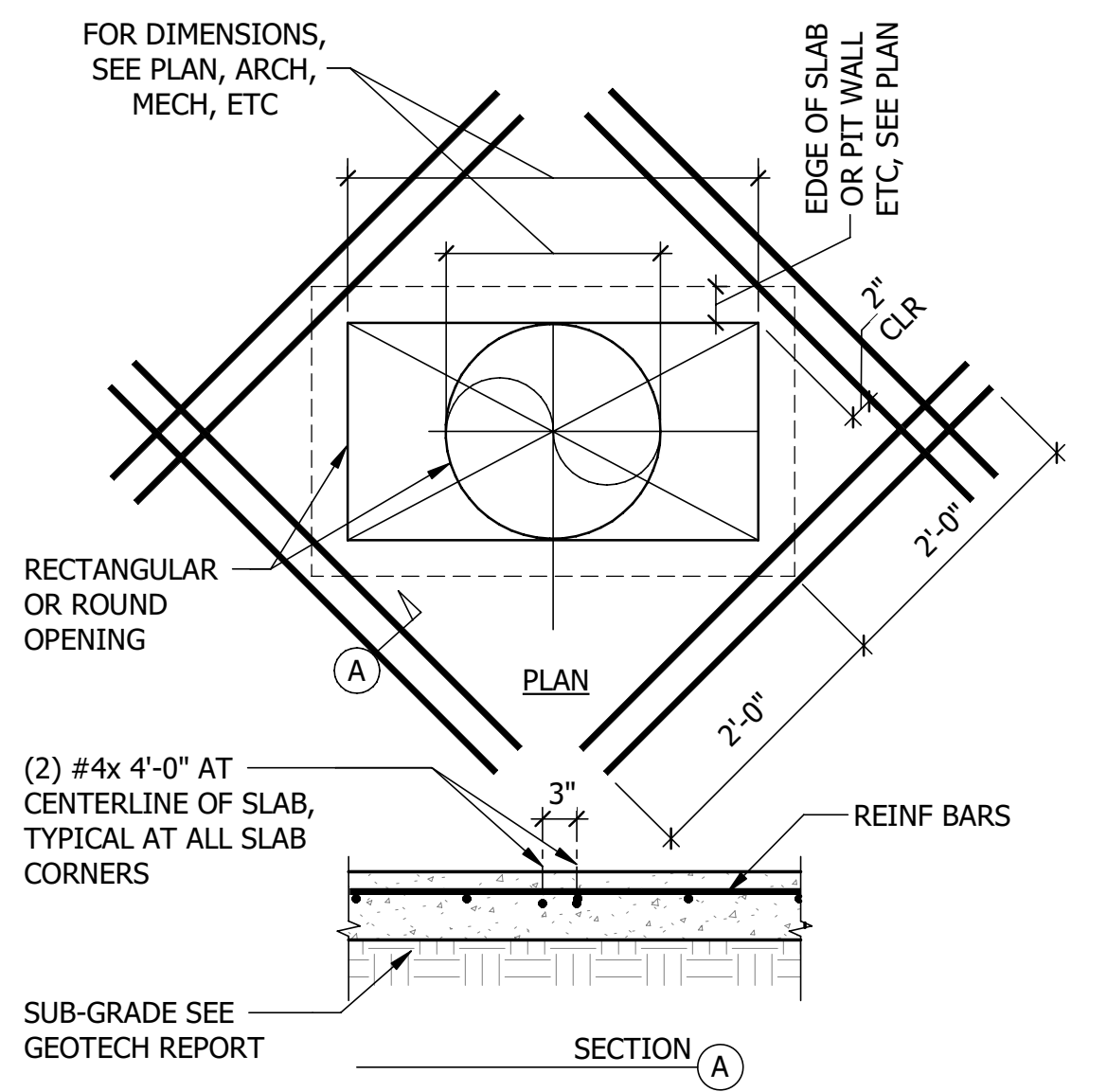
STIRRUPS & TIES



BEAM STIRRUP

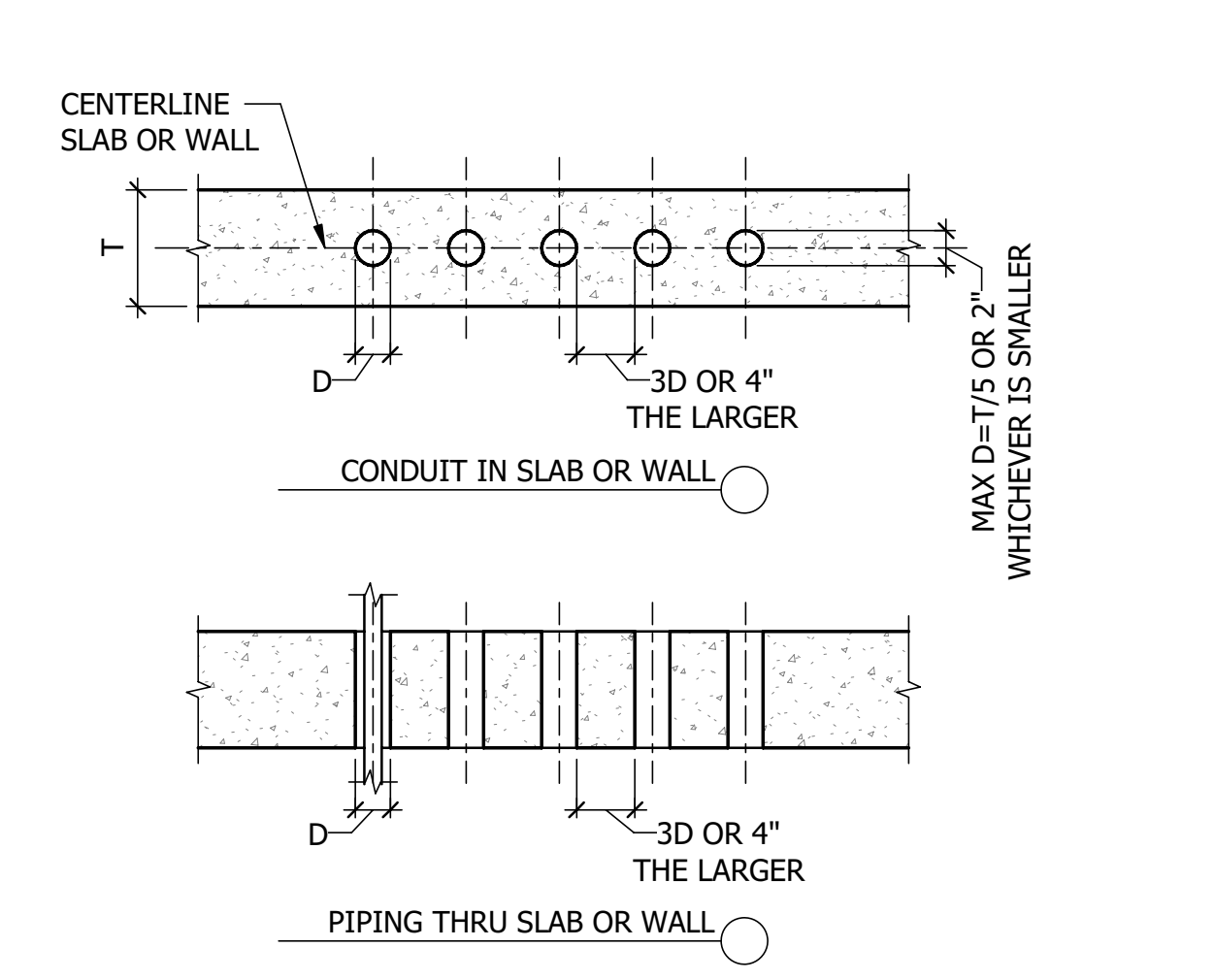


SPANDEL STIRRUP



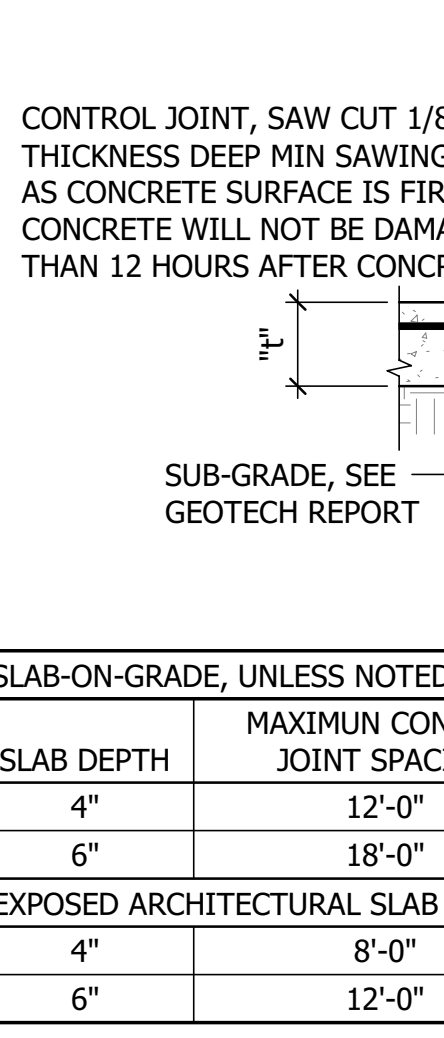
OPENING IN SLAB ON GRADE

1 REINF SPLICE & DEVELOPMENT LENGTH SCHEDULE



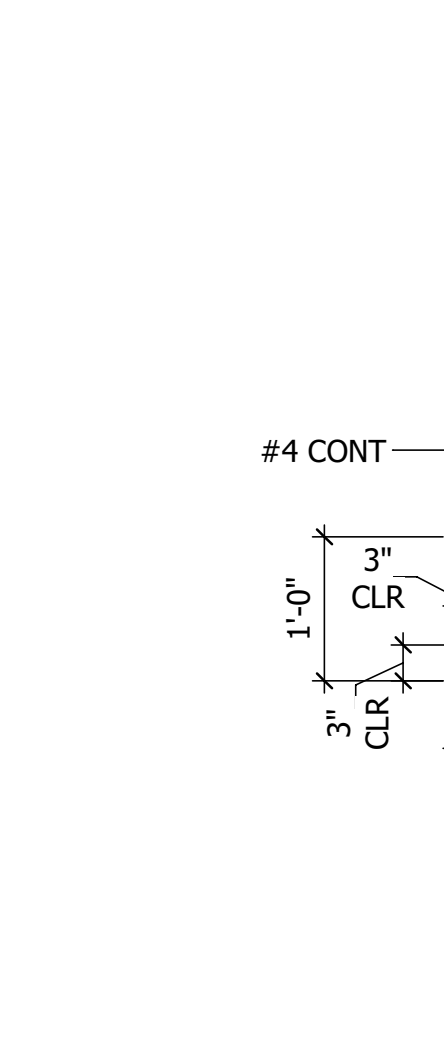
- NOTES:
- WHERE CLEAR DISTANCE BETWEEN SLEEVES IS IMPOSSIBLE THIS AREA SHALL BE TREATED AS A SLAB OPENING OR AS A WALL OPENING.

2 REBAR BENDS

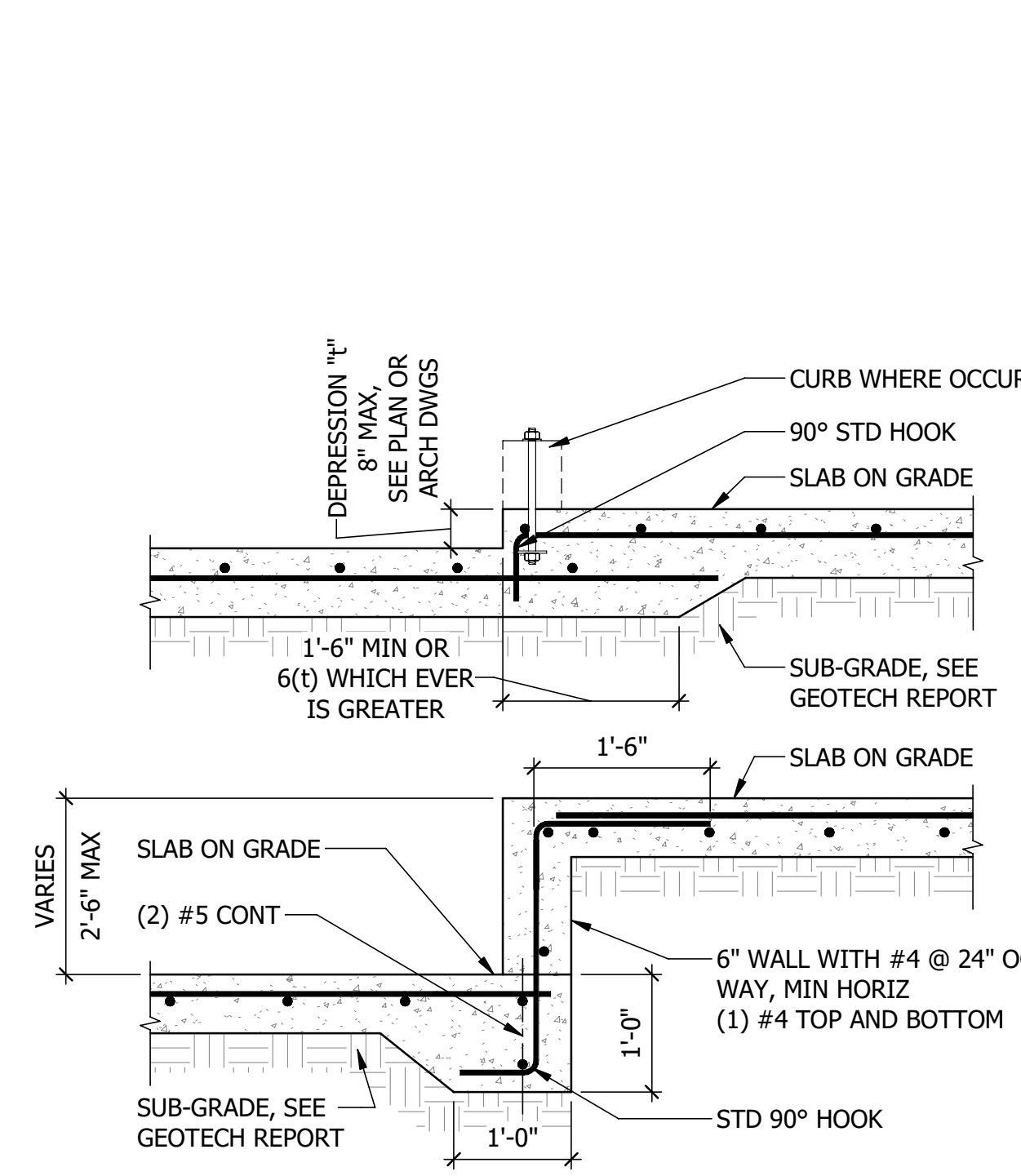


SLAB-ON-GRADE, UNLESS NOTED		
SLAB DEPTH	MAXIMUM CONTROL JOINT SPACING	
4"	12'-0"	
6"	18'-0"	
EXPOSED ARCHITECTURAL SLAB		
4"	8'-0"	
6"	12'-0"	

3 OPENING IN SLAB ON GRADE



4 PIPING CONDUIT IN OR THRU WALL OR SLAB



- NOTES:
- FOR LOCATION AND DEPTH, SEE PLAN OR ARCH DRAWINGS.

5 SLAB-ON-GRADE JOINT DETAILS



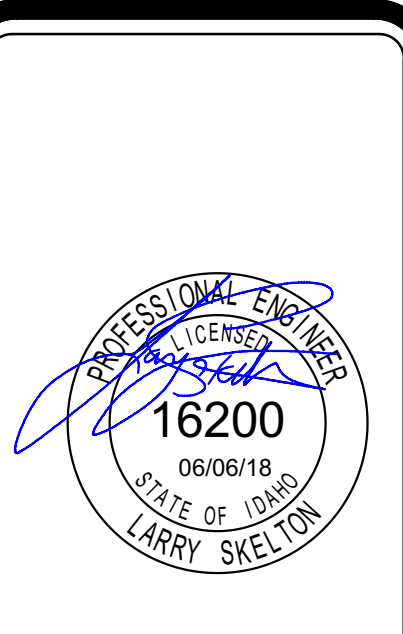
7 NEW SLAB DOWEL TO EXISTING SLAB



8 TURNED DOWN SLAB



9 STEP IN SLAB ON GRADE



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PERMIT SET
CONSTRUCTION
6/25/18

PROJECT 18059.00	DATE 05/02/18
DRAWN	CHECKED

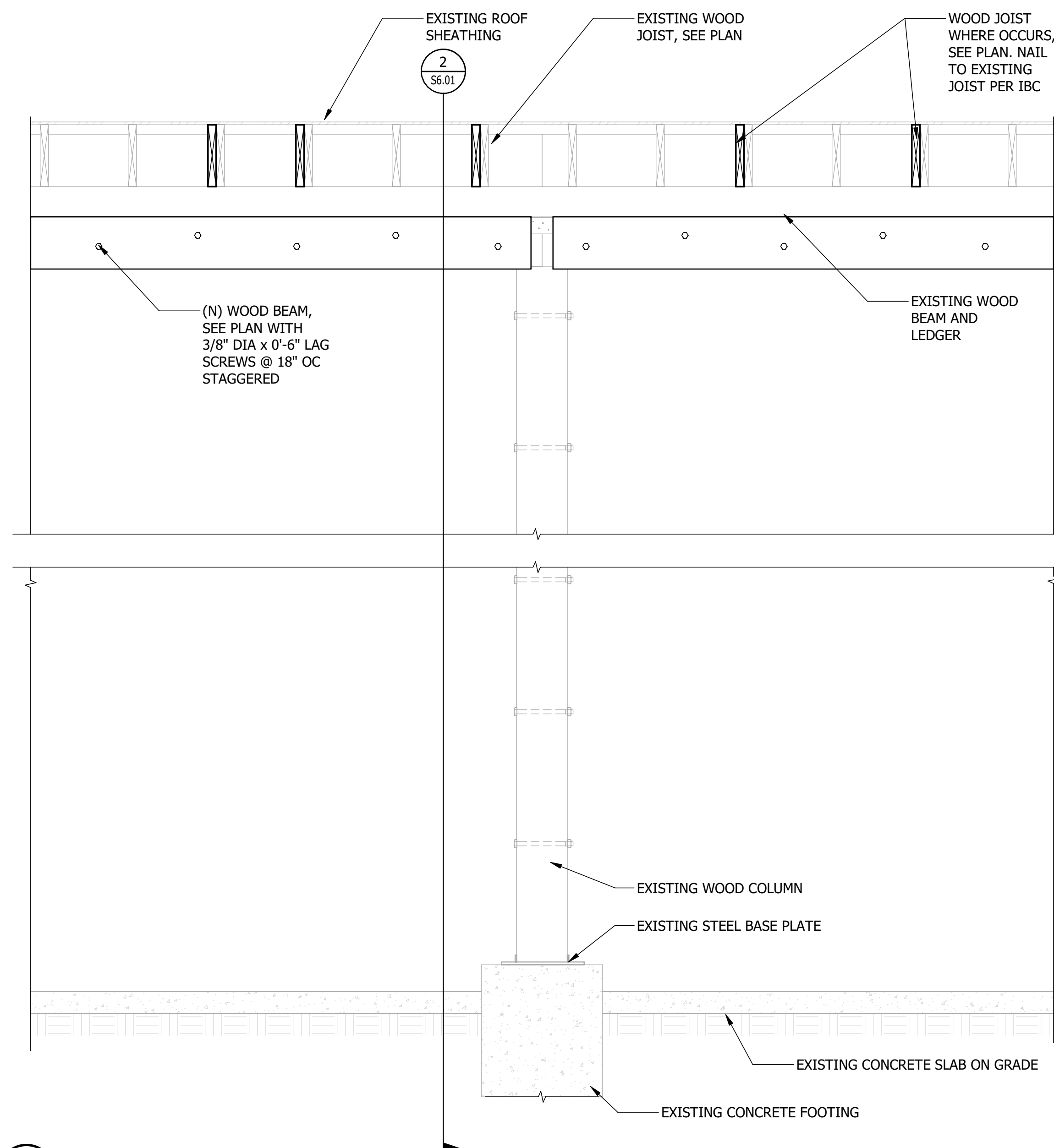
REVISED 1 ADDENDUM 1	2018-05-15
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HEADQUARTERS:
121 N. 9TH ST.
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AXIOMZLLC.COM
AXIOM PROJECT #88
ALBUQUERQUE, NM
CONSULTING ENGINEER

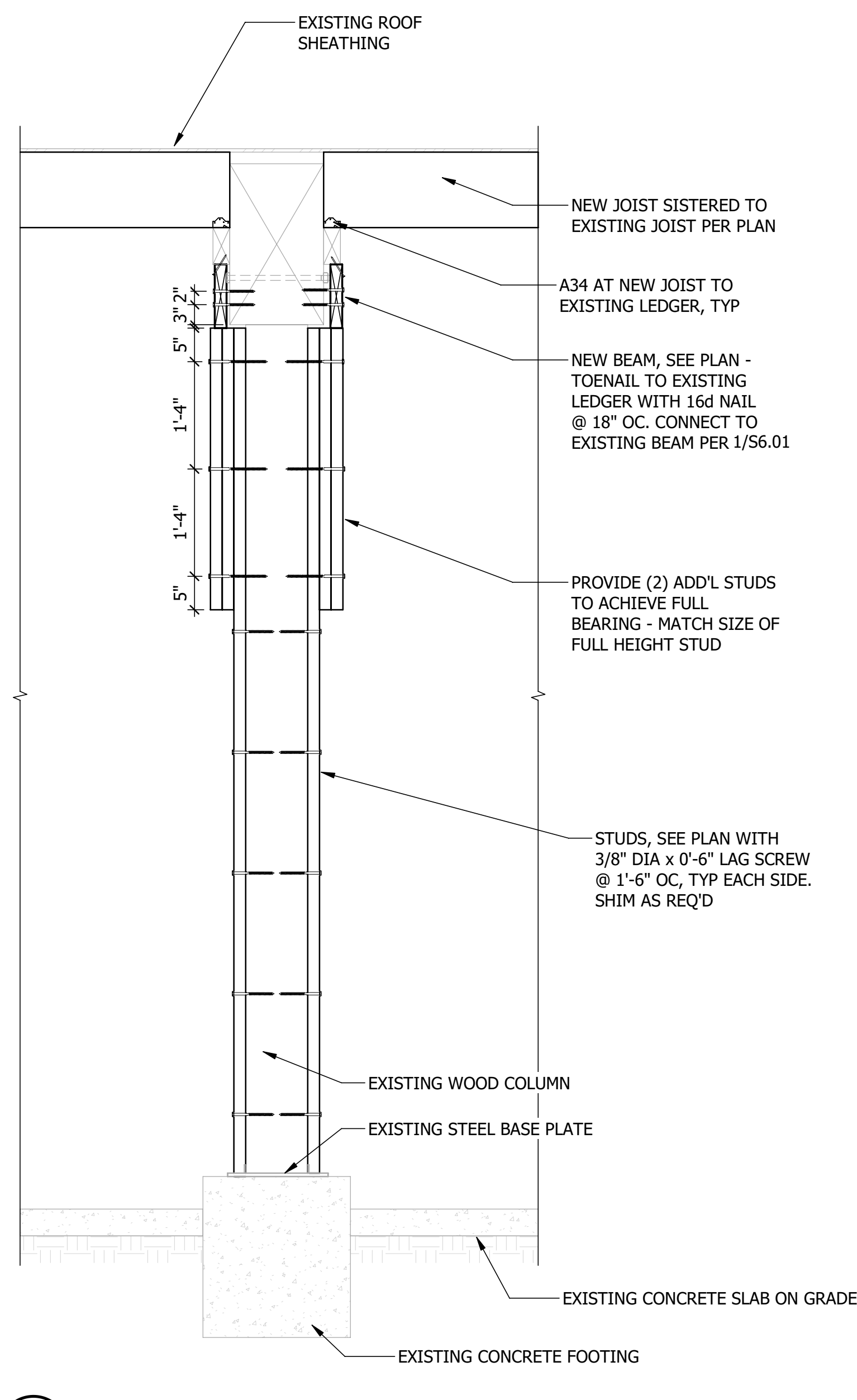
SHEET TITLE
CONCRETE DETAILS
SHEET
S5.02
ORIGINAL SHEET SIZE
30" x 42"

SHEET ADDED

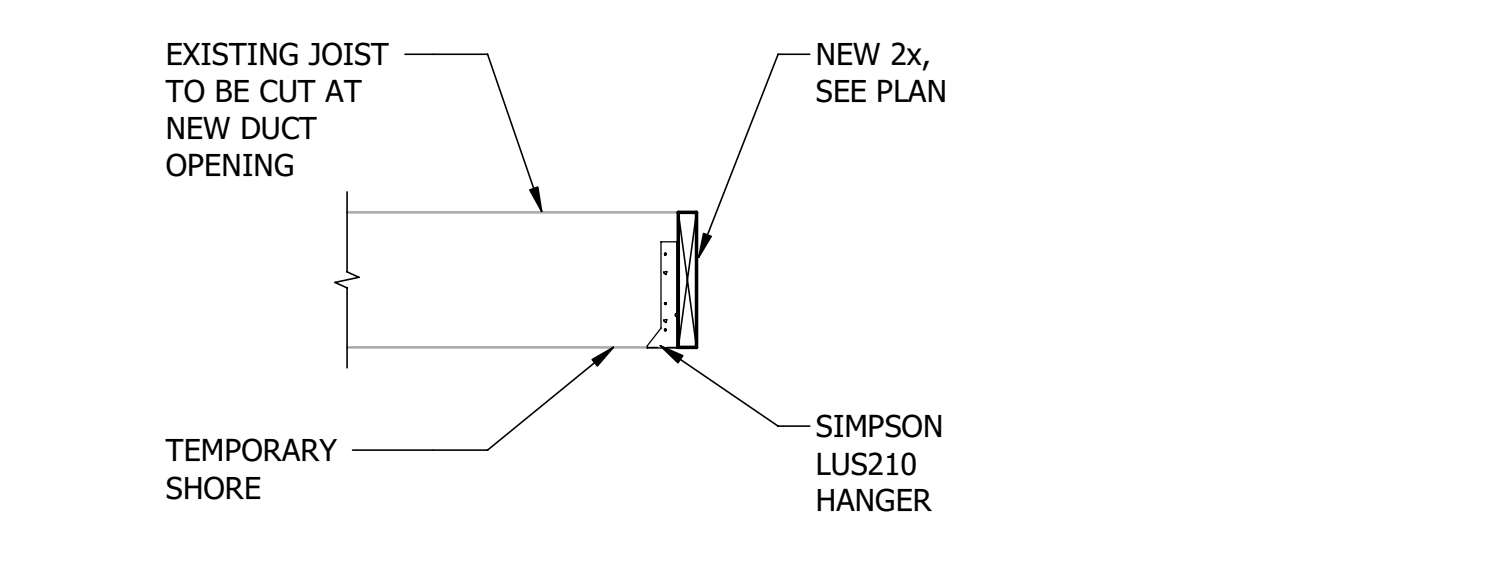




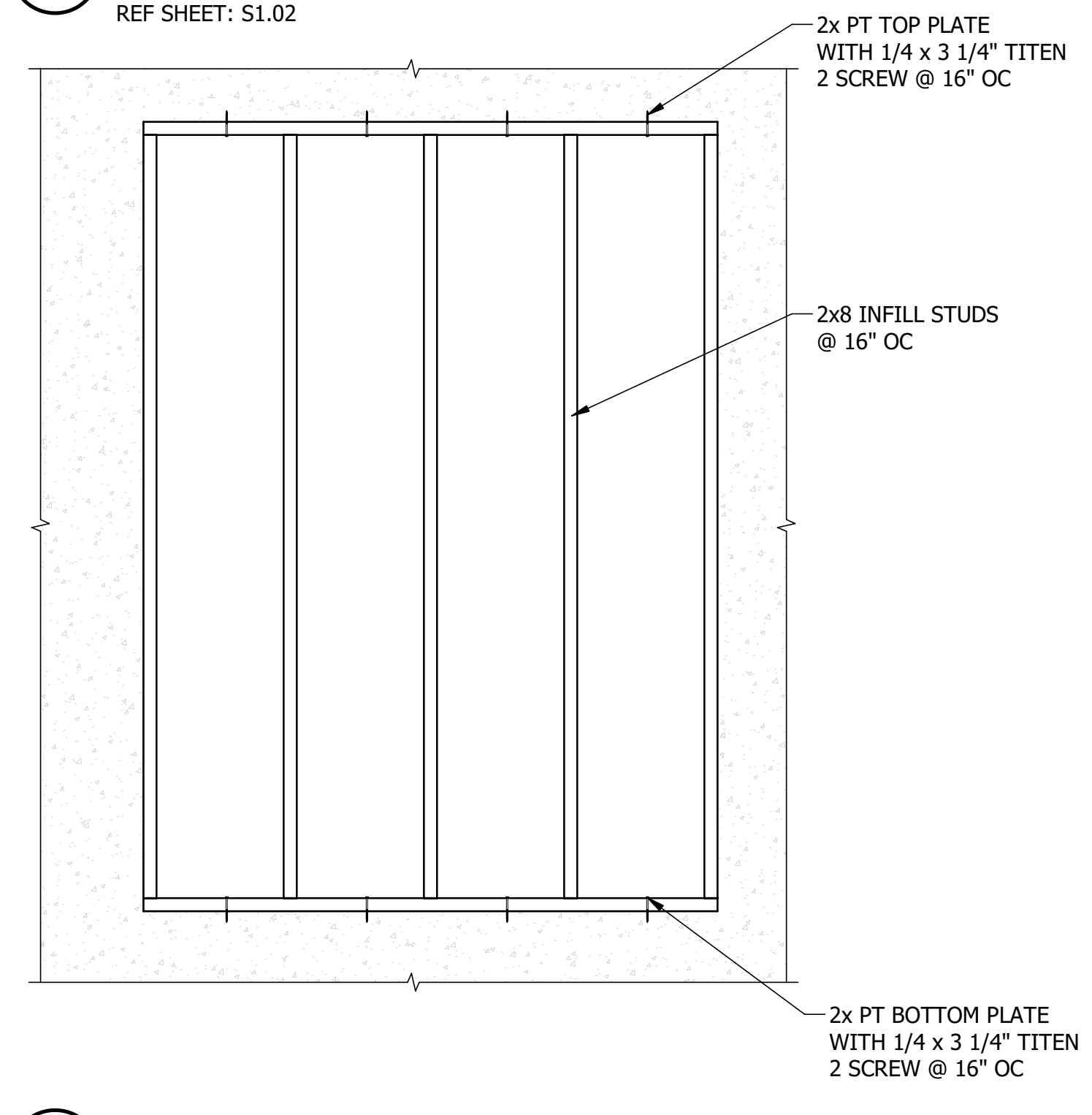
1 WOOD LVL TO COLUMN
SCALE: NTS
REF SHEET: S1.02



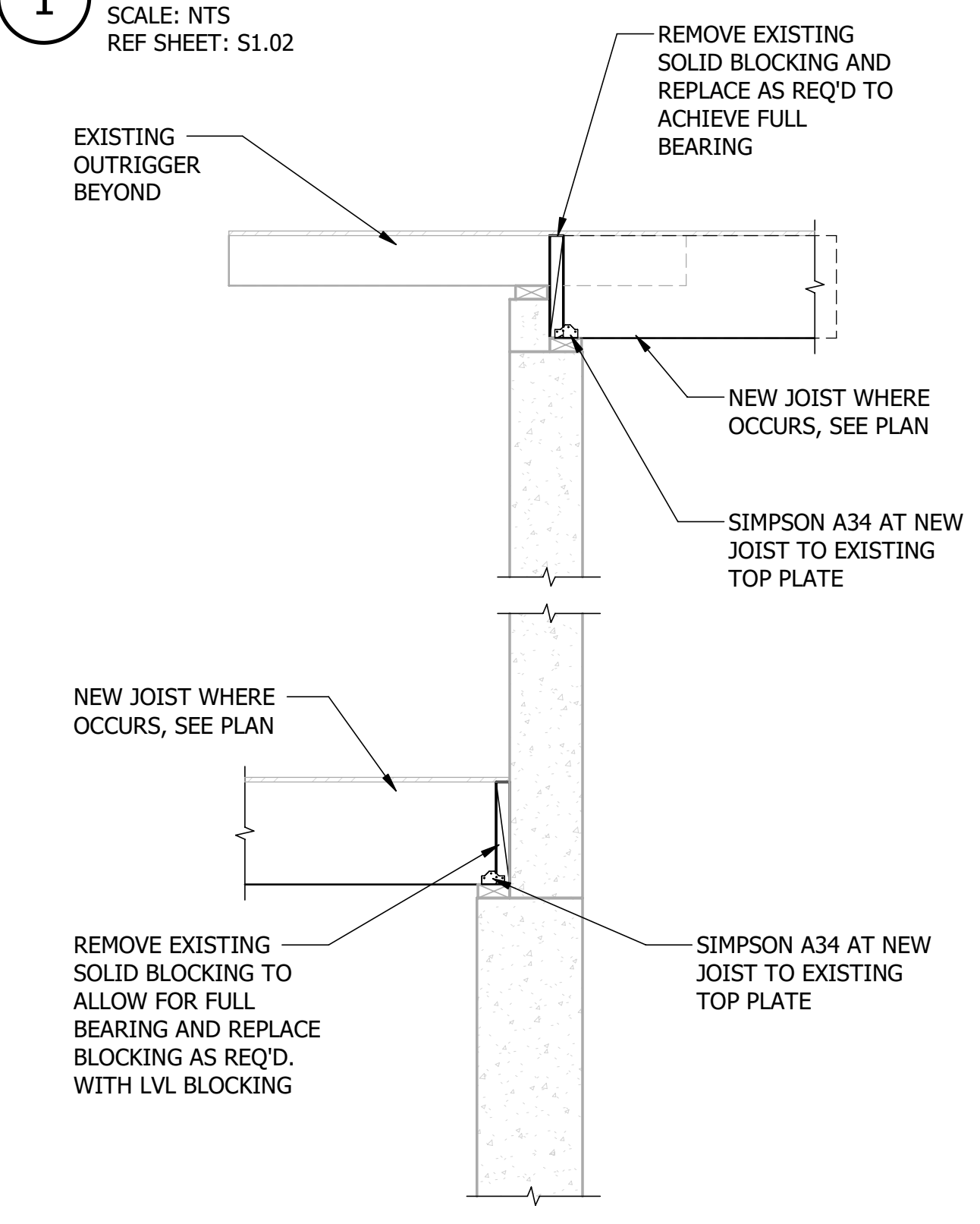
2 WOOD LVL TO BEAM/COLUMN
SCALE: NTS
REF SHEET: S6.01



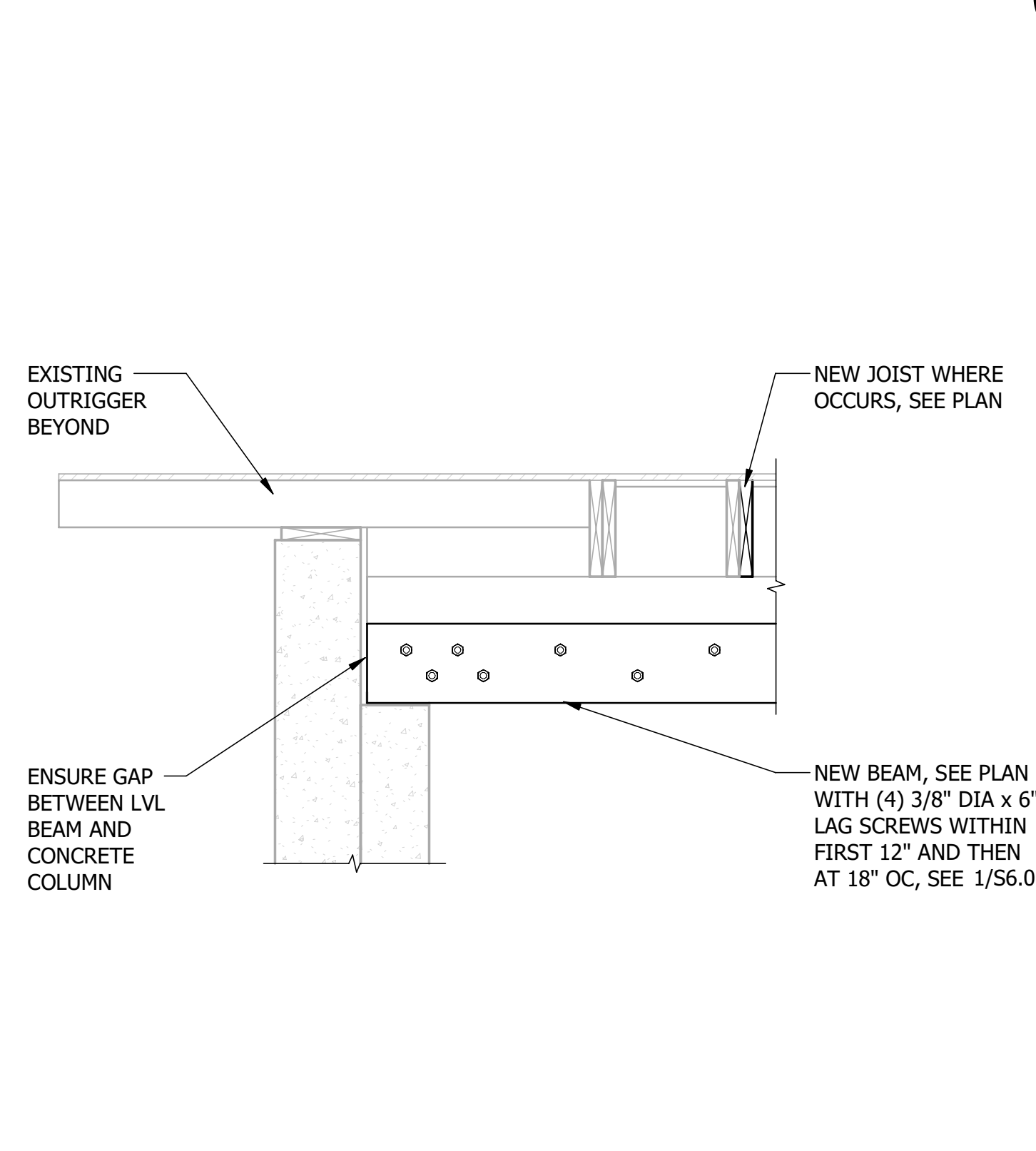
3 BEAM AT NEW MECHANICAL OPENING
SCALE: NTS
REF SHEET: S1.02



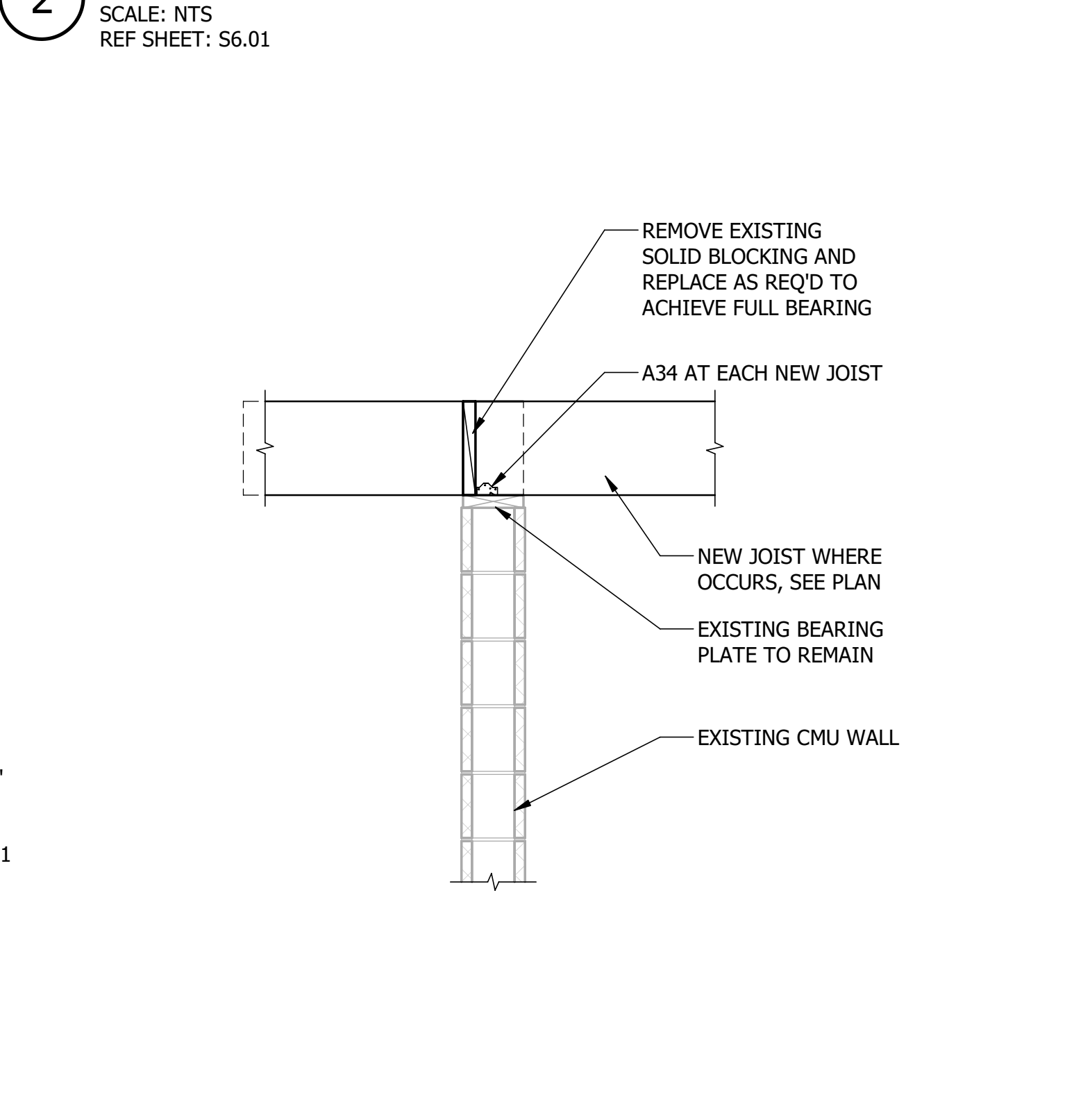
4 EXISTING OPENING INFILL
SCALE: NTS



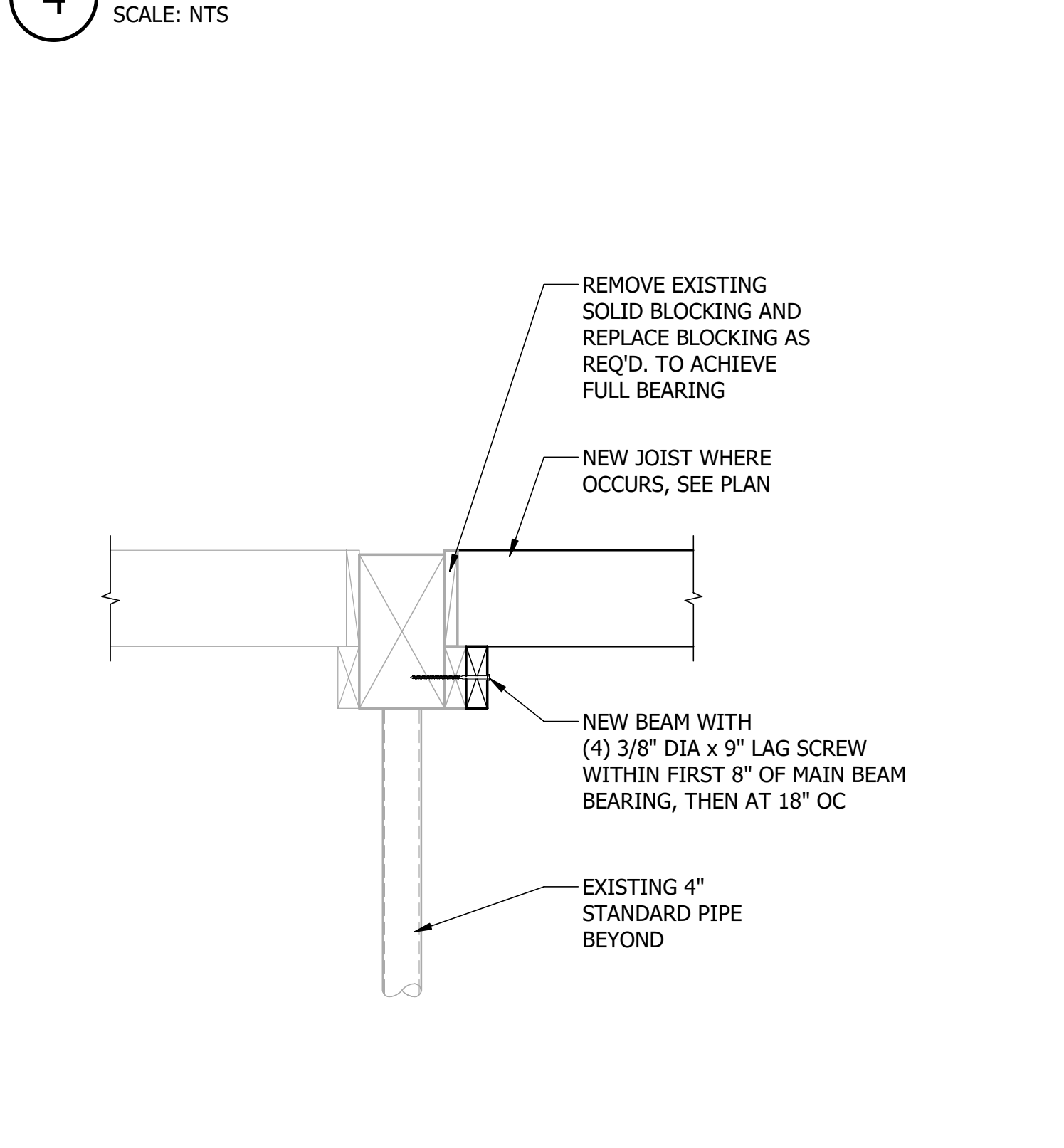
5 CONNECTION AT EXISTING CONCRETE WALL
SCALE: NTS
REF SHEET: S1.02



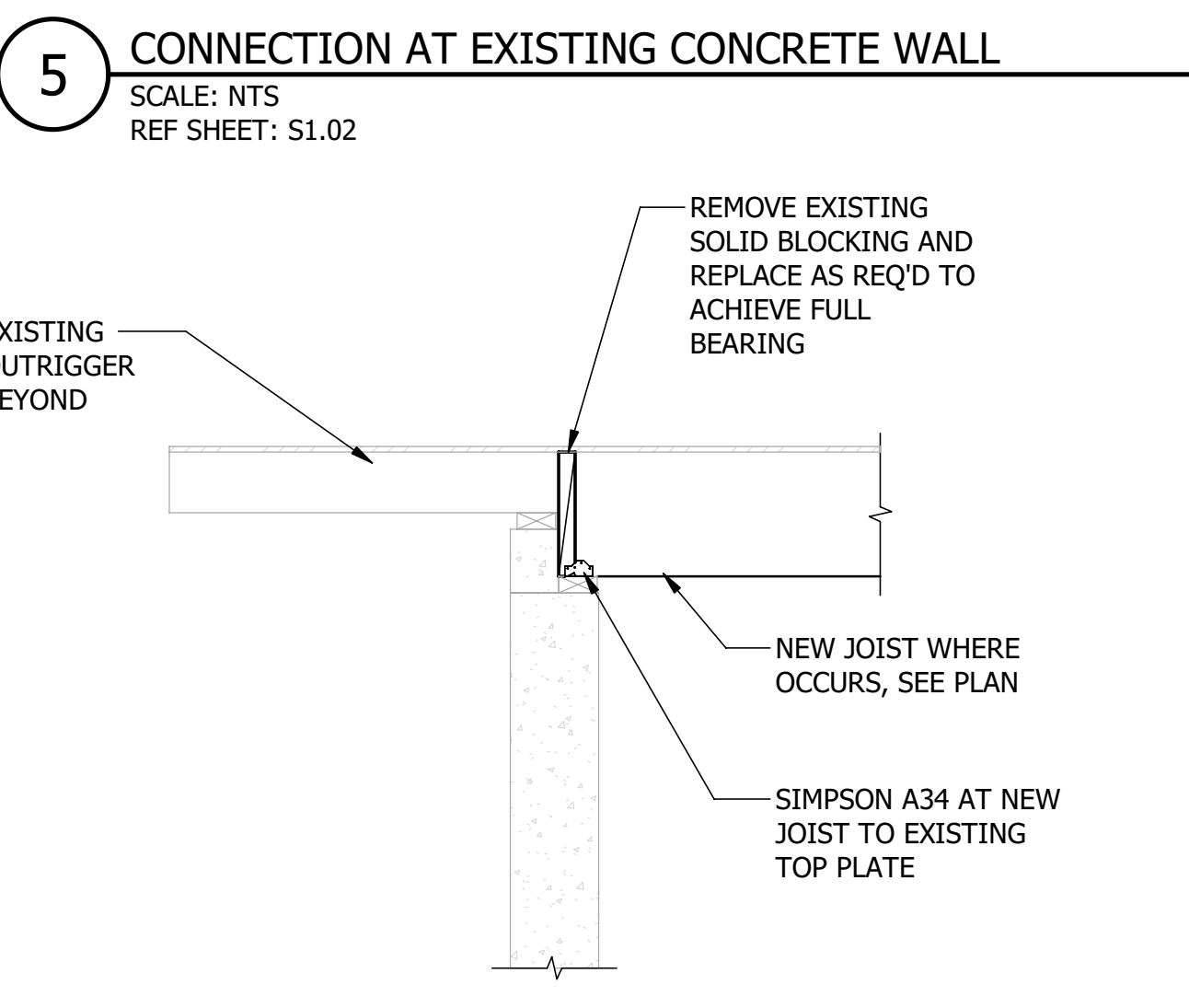
6 CONNECTION AT EXISTING CONCRETE WALL
SCALE: NTS
REF SHEET: S1.02



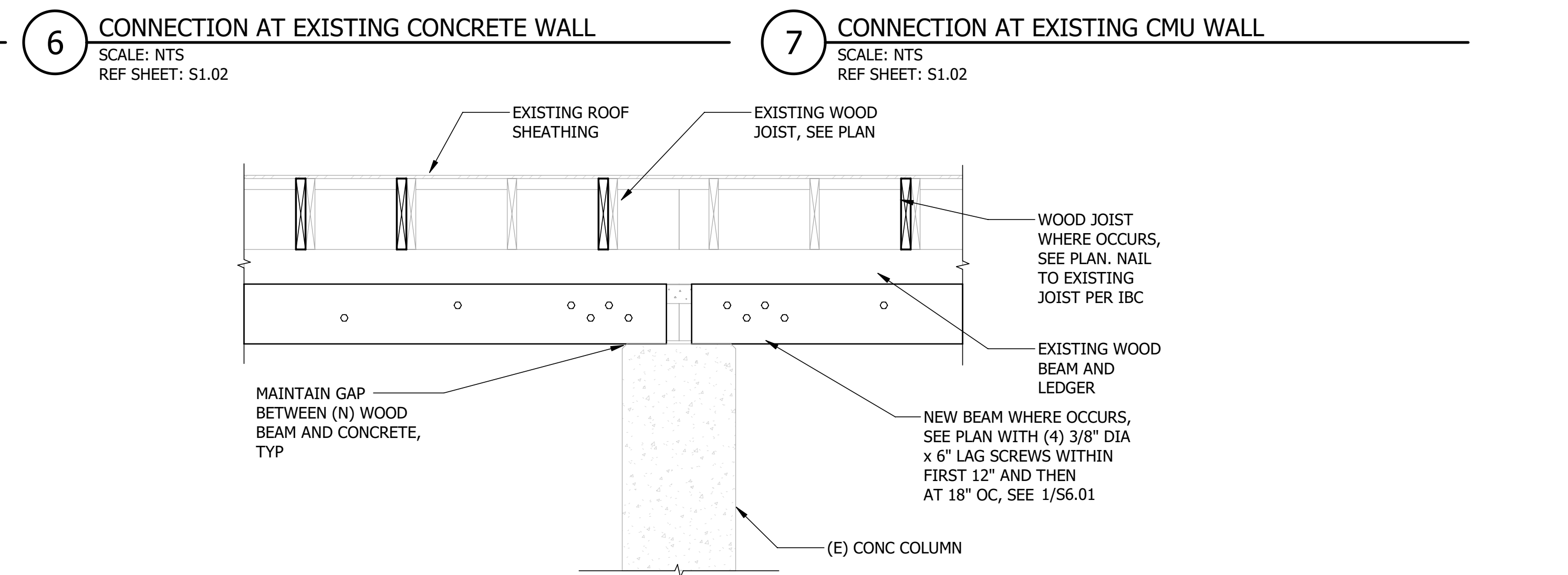
7 CONNECTION AT EXISTING CMU WALL
SCALE: NTS
REF SHEET: S1.02



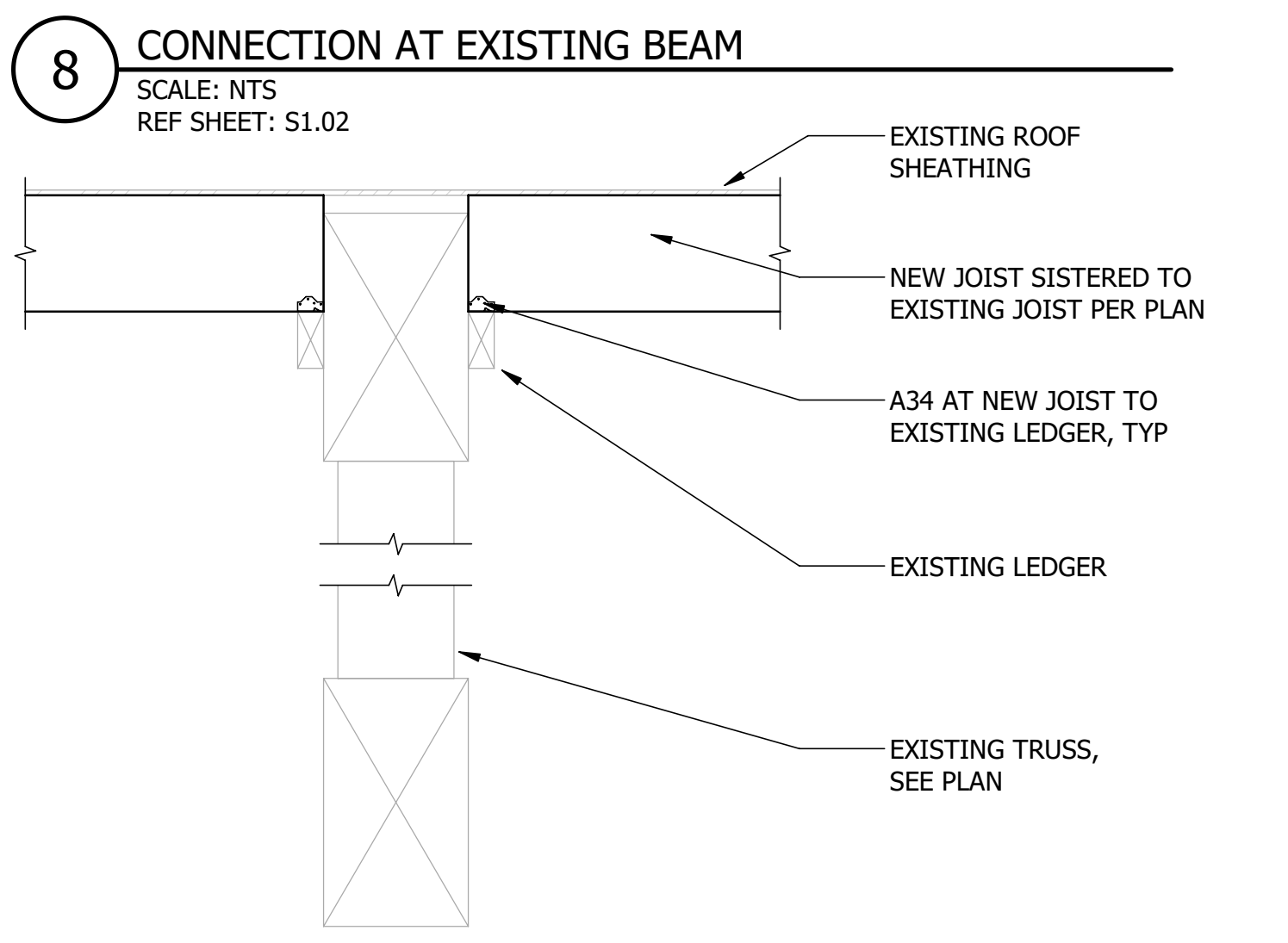
8 CONNECTION AT EXISTING BEAM
SCALE: NTS
REF SHEET: S1.02



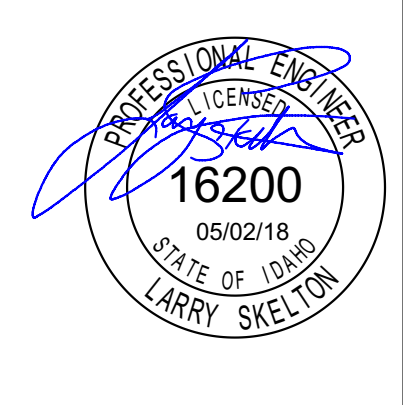
9 CONNECTION AT EXISTING CONCRETE WALL
SCALE: NTS
REF SHEET: S1.02



10 CONNECTION AT EXISTING CONCRETE COLUMN
SCALE: NTS
REF SHEET: S1.02



11 CONNECTION WOOD JOIST TO EXISTING TRUSS
SCALE: NTS
REF SHEET: S1.02



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CSHOA

PERMIT SET
CONSTRUCTION
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PROJECT	18059.00	DATE	05/02/18
DRAWN	AP	CHECKED	LS

REVISED

SHEET TITLE
DETAILS

SHEET
S6.01

ORIGINAL SHEET SIZE
30" x 42"

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BOISE, ID | Salt Lake City, UT | Albuquerque, NM





PLUMBING ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	MAX	MAXIMUM
AG	AIR GAP	MECH	MECHANICAL
ALT	ALTERNATIVE, ALTERNATE	MFR	MANUFACTURER
AP	ACCESS PANEL	MHT	MALE HOSE THREAD
ARCH	ARCHITECT, ARCHITECTURAL	MIN	MINIMUM
BFP	BACKFLOW PREVENTER	MISC	MISCELLANEOUS
BHP	BRAKE HORSEPOWER	MTD	MOUNTED
BLDG	BUILDING	MV	MIXING VALVE
CD	CONDENSATE DRAIN	(N)	NEW
CFM	CUBIC FEET PER MINUTE	NC	NORMALLY CLOSED
CO	CLEANOUT	NG	NATURALLY GAS
COTG	CLEANOUT TO GRADE	NIC	NOT IN CONTRACT
CP	CONDENSATE PUMP	NO	NORMALLY OPEN
CW	COLD WATER (DOMESTIC)	NO/#	NUMBER
C/W	COORDINATE WITH	NTS	NOT TO SCALE
(D)	DEMOLISH	OD	OUTSIDE DIAMETER, OVERFLOW DRAIN
DF	DRINKING FOUNTAIN	ODL	OVERFLOW LEADER
DIAM/Ø	DIAMETER	ORV	PRESSURE REDUCING VALVE
DWG	DRAWING	PSF	POUNDS PER SQUARE FOOT
(E)	EXISTING	PSI	POUNDS PER SQUARE INCH
EFF	EFFICIENCY	PVC	POLYVINYL CHLORIDE
EL	ELEVATION	R/RAD	RADIUS
ELEC	ELECTRIC, ELECTRICAL	RD	ROOF DRAIN
ET	EXPANSION TANK	RE	REFERENCE
EW	EYE WASH	RM	ROOM
EWIC	ELECTRIC WATER COOLER	RP	RECIRCULATION PUMP
EWS	EYE WASH SHOWER	RPM	REVOLUTIONS PER MINUTE
F	FAHRENHEIT	RWL	RAINWATER LEADER
FCO	FLOOR CLEANOUT	SA	SHOCK ARRESTER
FD	FLOOR DRAIN	SCW	SOFT COLD WATER
FS	FLOOR SINK	SH	SHOWER
FT	FEET	SK	SINK
FT HD	FEET OF HEAD	SPEC(S)	SPECIFICATION(S)
GA	GAUGE	SS	SANITARY SEWER
GAL	GALLON	TD	TRENCH DRAIN
GCO	GRADE CLEANOUT	TEMP	TEMPERATURE
GI	GREASE INTERCEPTOR	TP	TRAP PRIMER
GPM	GALLONS PER MINUTE	TYP	TYPICAL
GW	GREASE WASTE	U/UR	URINAL
HB	HOSE BIBB	UBC	UNIFORM BUILDING CODE
HP	HORSEPOWER	UFC	UNIFORM FIRE CODE
HW	HOT WATER	UMC	UNIFORM MECHANICAL CODE
HWR	HOT WATER RETURN	UN	UNLESS OTHERWISE NOTED
IBC	INTERNATIONAL BUILDING CODE	UPC	UNIFORM PLUMBING CODE
ID	INSIDE DIAMETER	V	VENT
IECC	INTERNATIONAL ENERGY CONSERVATION CODE	VTR	VENT THROUGH ROOF
IFGC	INTERNATIONAL FUEL GAS CODE	W	WIDE, WIDTH
IMC	INTERNATIONAL MECHANICAL CODE	WB	WATER BOX
IPC	INTERNATIONAL PLUMBING CODE	WC	WATER CLOSET
IN WC	INCHES OF WATER COLUMN	WCO	WALL CLEANOUT
INV	INVERT	WG	WATER GAUGE
ISPC	IDAHO STATE PLUMBING CODE	WH	WATER HEATER
KW	KILOWATT	WS	WATER SOFTENER
LAV	LAVATORY	W/	WITH
		W/O	WITHOUT

PLUMBING SYMBOLS

	PIPE ELBOW UP		TEMPERATURE GAUGE
	PIPE ELBOW DOWN		PRESSURE GAUGE
	PIPE TEE BRANCH UP (W/ ELBOW)		VENT-THRU-ROOF
	PIPE TEE BRANCH DOWN (W/ ELBOW)		WALL CLEANOUT
	INDICATES DIRECTION OF DOWNWARD FLOW		FLOOR CLEANOUT CLEANOUT TO GRADE
	FLOW DIRECTION INDICATOR		TRENCH DRAIN
	UNION		FLOOR DRAIN, ROUND
	STRAINER		FLOOR DRAIN, SQUARE
	PIPE CAP		FLOOR SINK
	BALL VALVE		ROOF DRAIN OR OVERFLOW DRAIN
	CHECK VALVE (ARROW TOWARD DIRECTION OF FREE FLOW)		CONNECT NEW TO EXISTING SHADED SIDE IS NEW WORK
	DOUBLE CHECK BACK FLOW PREVENTER		COMPRESSED AIR OUTLET
	REDUCED PRESSURE BACK FLOW PREVENTER		KEY NOTES
	CIRCUIT SETTER		FIXTURE OR EQUIPMENT CALLOUT (RE: FIXTURE AND EQUIPMENT SCHEDULES)
	HOSE BIBB, EXPOSED		REVISION
	HOSE BIBB, RECESSED W/ LOCKING COVER		
	GAS SHUTOFF COCK		
	PRESSURE REGULATING VALVE		
	A.S.M.E. PRESSURE RELIEF VALVE		
	VALVE IN RISER SHUTOFF		
	CONTROL STOP		
	IN-LINE PUMP		

PLUMBING LINETYPE LEGEND

NEW	EXISTING	TO BE DEMOLISHED	
---	---	----	DOMESTIC COLD WATER
---	---	----	DOMESTIC HOT WATER
---	---	----	DOMESTIC HOT WATER RETURN
---	---	----	PLUMBING EQUIPMENT
---NG---	---NG---	----	NATURAL GAS
---MPG---	---MPG---	----	MEDIUM PRESSURE NATURAL GAS
---CD---	---CD---	----	CONDENSATE DRAIN
---	---	----	SANITARY SEWER (BELOW GRADE)
---	---	----	SANITARY SEWER (ABOVE GRADE)
---	---	----	SANITARY VENT
---CA---	---CA---	----	COMPRESSED AIR

SUFFIX (E) IN CONJUNCTION WITH LIGHTER SHADING INDICATES EXISTING PIPE OR EQUIPMENT. (TYPICAL OF ALL EQUIPMENT AND PIPING).

PLUMBING SHEET INDEX

P01	PLUMBING COVER SHEET
P11A	PLUMBING DEMOLITION PLAN AREA A
P11B	PLUMBING DEMOLITION PLAN AREA B
P21A	PLUMBING PLAN AREA A
P21B	PLUMBING PLAN AREA B
P22	SECOND FLOOR PLUMBING PLAN
P23A	COMPRESSED AIR PLAN AREA A
P23B	COMPRESSED AIR PLAN AREA B
P24	PLUMBING ROOF PLAN
P41	PLUMBING SCHEDULES
P51	PLUMBING DETAILS

PLUMBING GENERAL NOTES

- ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL APPLICABLE STATE CODES, LOCAL CODES, LOCAL STANDARDS, ETC., IPC, NEPA, AND THE LANDLORD'S AND TENANT'S REQUIREMENTS INCLUDING SUPPLEMENTS AND DETAILS.
- PROVIDE SEAL BETWEEN WALLS AND PLUMBING FIXTURES PER HEALTH DISTRICT REQUIREMENTS.
- COLD AND HOT WATER SUPPLY PIPING SIZES FOR FIXTURE CONNECTIONS ARE NOT SHOWN ON PLANS. SEE FIXTURE SCHEDULE FOR CONNECTION SIZES.
- INSTALL ALL OVERHEAD PIPING AS CLOSE TO STRUCTURE AS POSSIBLE, OR AS DETAILED OTHERWISE.
- LOCATE AND LABEL ALL VALVES FOR SERVICE ACCESSIBILITY. VALVES INSTALLED ABOVE CEILING SHALL BE ACCESSIBLE THRU CEILING. SEE DRAWINGS FOR LOCATIONS.
- COORDINATE INSTALLATION WITH THE WORK OF OTHER TRADES PRIOR TO STARTING. IN THE EVENT THAT CONFLICTS ARE FOUND WITH THE WORK OF THE OTHER TRADES, BRING ALL SUCH CONFLICTS TO THE ARCHITECT'S ATTENTION FOR RESOLUTION PRIOR TO PROCEEDING WITH THE WORK IN THAT AREA. DEFICIENCIES CAUSED BY FAILURE TO PERFORM SUCH VERIFICATIONS SHALL BE CORRECTED AT NO ADDITIONAL EXPENSE TO OWNER. IMMEDIATELY NOTIFY ARCHITECT OF CONDITIONS IN CONFLICT WITH THE PLANS.
- PROVIDE PIPING EQUIPMENT AND MATERIALS IN ACCORDANCE WITH APPLICABLE PLUMBING CODE REGULATIONS AND STANDARDS, AUTHORITIES HAVING JURISDICTION, OR AS OTHERWISE RECOMMENDED OR DIRECTED BY MANUFACTURERS.
- COORDINATE INSTALLATION OF PIPING BELOW AND ABOVE GRADE WITH STRUCTURAL COMPONENTS AND OTHER SYSTEM INSTALLATIONS.
- COORDINATE ALL FIXTURES, EQUIPMENT AND ROUGH-IN CONNECTION LOCATIONS AND SIZES WITH ARCHITECTURAL DRAWINGS, OWNER AND EQUIPMENT SUPPLIER PRIOR TO INSTALLATION.
- PROVIDE SEISMIC RESTRAINTS FOR ALL PIPE AND EQUIPMENT AS RECOMMENDED IN SMOCKA "SEISMIC RESTRAINT MANUAL GUIDELINES FOR MECHANICAL EQUIPMENT", LATEST EDITION.
- ALL PIPING SHALL BE CONCEALED IN WALLS OR ABOVE CEILING UNLESS NOTED OTHERWISE. ALL WALLS IN WHICH WATER OR WASTE LINES ARE INSTALLED MUST BE PATCHED TO MATCH EXISTING AFTER LINES ARE INSTALLED.
- PRIOR TO BIDDING, OBTAIN A COPY OF THE SPECIFICATIONS AND PLANS, VISIT THE JOB SITE, TAKE NECESSARY MEASUREMENTS, NOTE EXISTING CONDITIONS, AND GATHER ALL OTHER INFORMATION NEEDED FOR AN ACCURATE BID. NO ALLOWANCES WILL BE MADE FOR EXTRA COSTS RESULTING FROM FAILURE TO NOTE EXISTING CONDITIONS.
- PIPING PENETRATIONS THROUGH RATED ASSEMBLIES SHALL BE FIRESTOPPED IN ACCORDANCE WITH APPLICABLE CODES.
- ALL WORK ON THE PLUMBING DRAWINGS SHALL BE COMPLETED BY THE PLUMBING CONTRACTOR UNLESS SPECIFIED OTHERWISE.
- ANY DISCREPANCIES OR INADEQUACIES BETWEEN THE DRAWINGS AND OTHER DISCIPLINES SHALL BE BROUGHT TO THE ATTENTION OF OWNER'S REPRESENTATIVE.
- INSTALL ALL PIPING RUNS AS HIGH AS POSSIBLE THROUGHOUT ENTIRE BUILDING. INSTALL LONG RUNS WITHIN JOIST SPACE AND OTHER PIPING TIGHT TO BOTTOM OF STEEL. COORDINATE WITH OTHER TRADES - DUCTWORK, FIRE PROTECTION, PIPING, LIGHTING SYSTEMS, ETC.
- FINAL CONNECTION TO ALL GAS FIRED APPLIANCES TO BE BY PLUMBING CONTRACTOR REGARDLESS OF WHO PROVIDES APPLIANCES. THIS SHALL INCLUDE BUT NOT BE LIMITED TO HVAC EQUIPMENT, COOKING EQUIPMENT, EMERGENCY GENERATORS, DOMESTIC WATER HEATERS, ETC.
- ALL PLUMBING FIXTURES SHALL HAVE THEIR OWN INDEPENDENT SHUT OFF BALL VALVES, INSTALLED IN AN EASILY ACCESSIBLE LOCATION.
- DOMESTIC WATER HEATER TEMPERATURE/PRESSURE RELIEF VALVES SHALL BE PIPED TO NEAREST APPROVED RECEPTOR.
- ALL HAND WASH SINKS SHALL HAVE IN-LINE WATER TEMPERING VALVES INSTALLED TO BE EASILY ACCESSIBLE. THESE TEMPERING VALVES SHALL BE SET TO DELIVER HOT WATER AT 110 DEGREES FAHRENHEIT.
- ALL REFRIGERATED CASE DRAINS AND COOLER/FREEZER EVAPORATOR COILS WILL BE PIPED TO HUB DRAINS OR STAND PIPES THAT SHALL TIE INTO THE SANITARY DRAINAGE SYSTEMS. CONDENSATE PIPING SHALL BE COPPER, COORDINATE WITH REFRIGERATION CONTRACTOR FOR CORRECT SIZE PIPE.
- PLUMBING CONTRACTOR TO FIELD VERIFY EXACT LOCATIONS OF CASE WASH DOWN HOSE BIBBS, PRODUCE SPRAY CONNECTIONS, AND MISTING UNITS WITH WHOLE FOODS REPRESENTATIVE AND SHALL FURNISH AND INSTALL PIPING FOR SAME. PLUMBER SHALL FURNISH AND INSTALL ACCESSIBLE SHUT OFF VALVE FOR MISTING UNIT BRANCH SUPPLY.
- ALL FOOD PREPARATION EQUIPMENT WITH DIRECT CONNECTION TO DOMESTIC WATER SYSTEM SHALL BE EQUIPPED WITH A WATTS NO. 007 DUAL CHECK VALVE TYPE BACKFLOW PREVENTION DEVICE.
- THE PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL WASH DOWN FAUCET EQUIPPED WITH INTEGRAL VACUUM BREAKER BENEATH ALL COMPARTMENT SINKS.
- ALL FLOOR DRAINS AND TRENCH DRAINS IN KITCHENS, MECHANICAL ROOMS, AND BATHROOMS SHALL BE EQUIPPED WITH STRAINERS.
- SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS.
- COORDINATE ALL PLUMBING PIPING ROOF PENETRATIONS WITH THE GENERAL CONTRACTOR. ALL PIPING PENETRATING THE ROOF MUST BE INSTALLED WITH A PREMANUFACTURED PENETRATION BOOT ASSEMBLY OR PROPERLY SEALED PER THE ARCHITECTURAL DRAWINGS.

MEDIUM PRESSURE GAS CALCULATIONS							
JOB NAME: ITD MAINTENANCE BLDG TI - DISTRICT III				JOB #: 18059			
Distance to Last Fixture:	550	Total Bldg. Load (MBH):	3222	Main size:	2"		
Delivery Pressure:	2 PSI	Code:	2015 IFGC	DATE:	5/2/2018		
Regulator Designation	Distance Meter to Regulator (ft)	Line Size into Reg. (inches)	Line Size out of Reg. (inches)	Equipment Designation	MBH Input	Distance Reg. to Equip. (ft)	Line Size to Equip. (inches)
PRV-1 130 MBH	550	1/2	3/4	RH-4	65	30	1/2
				RH-3	65	40	1/2
PRV-2 280 MBH	535	3/4	1	RH-6	65	45	1/2
				RH-5	65	30	1/2
PRV-3	475	1/2	3/4	RH-2	150	30	3/4
PRV-4	330	1 1/4	1 1/2	RH-1	150	15	3/4
PRV-5 120 MBH	260	1/2	3/4	MAU-2	1062	15	1 1/2
				UH-2	60	25	1/2
PRV-6 178 MBH	195	1	1 1/2	UH-1	60	30	1/2
				MAU-1	1062	15	1 1/2
PRV-7 178 MBH	140	1/2	3/4	RTU-1	108	30	3/4
				RTU-2	70	15	1/2
PRV-8	115	1/2	3/4	RTU-3	240	10	3/4
TOTAL CONNECTED LOAD (MBH)					3222		



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GARDEN CITY, ID
5800 COFFEY STREET

CSHOA

FOR CONSTRUCTION
6/25/18

PROJECT	DATE
18059.00	5-2-18
DRAWN	CHECKED
KMH	RCF

REVISED

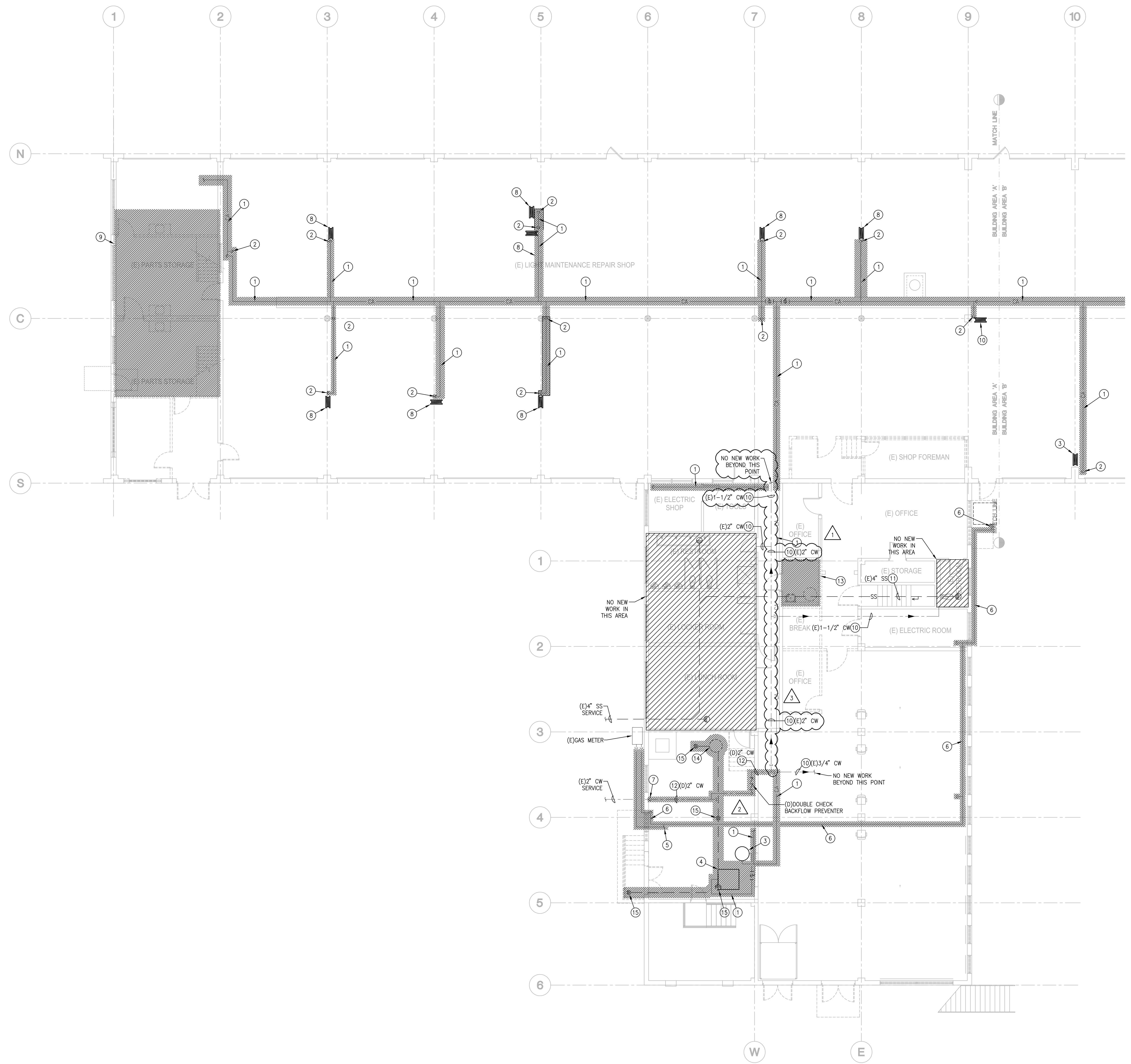
SHEET TITLE

PLUMBING COVER SHEET

SHEET

P01

ORIGINAL SHEET SIZE
30" x 42"



LEGEND:

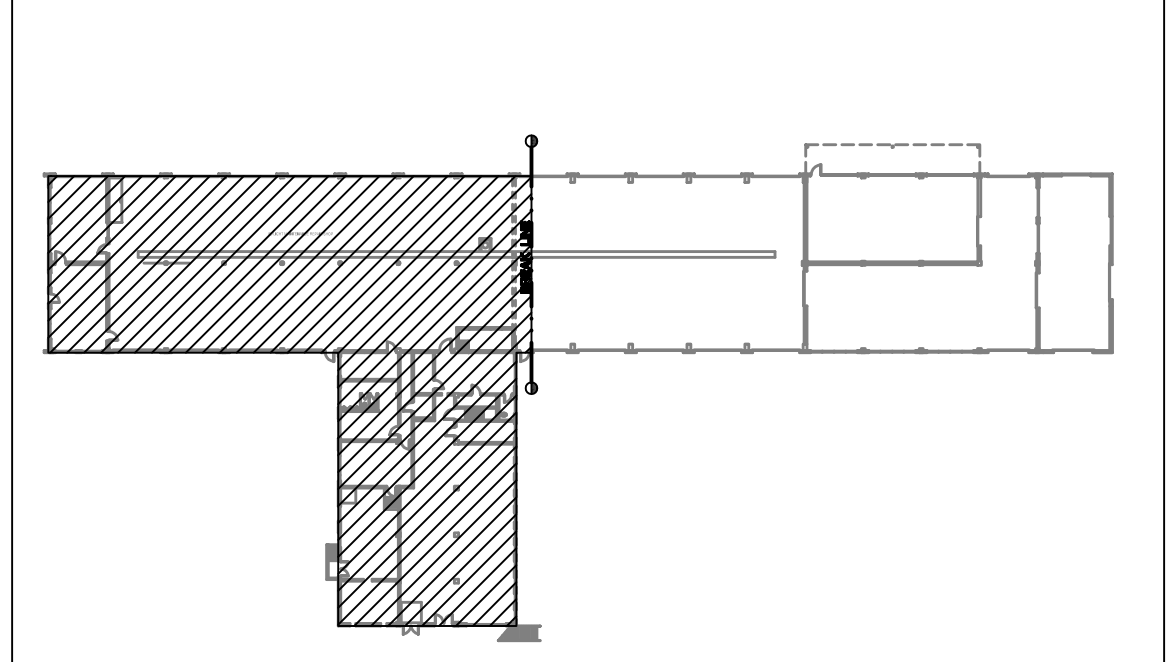
NEW	EXISTING	TO BE DEMOLISHED	
---	---	----	DOMESTIC COLD WATER
---	---	----	DOMESTIC HOT WATER
---	---	----	DOMESTIC HOT WATER RETURN
---	---	----	PLUMBING EQUIPMENT
---	---	----	PLUMBING EQUIPMENT ON ROOF
---NG---	---NG---	----	NATURAL GAS
---MPG---	---MPG---	----	MEDIUM PRESSURE GAS
---CD---	---CD---	----	CONDENSATE DRAIN
---CA---	---CA---	----	CONDENSATE DRAIN
---SS---	---SS---	----	SANITARY SEWER (BELOW GRADE)
---	---	----	SANITARY VENT
		WC	FIXTURE OR EQUIPMENT TAG (RE: FIXTURE AND EQUIPMENT SCHEDULES)

- GENERAL NOTES:**
- PRIOR TO INSTALLING ANY PIPING, VERIFY EXISTING CONDITIONS AND INVERTS. NOTIFY GC/ARCHITECT OF ANY CONDITIONS THAT WILL NOT ALLOW FOR INVERTS NOTED.
 - SLOPE ALL DRAINAGE PIPING AS FOLLOWS:
1. SANITARY SEWER BRANCH PIPING AT 1/4" PER FOOT.
2. INDIRECT WASTE PIPING AT 1/4" PER FOOT.
 - PROVIDE INDIRECT WASTE PIPING TO RECEPTORS FROM ALL EQUIPMENT AS REQUIRED. REFER TO FIXTURE SCHEDULES FOR FURTHER INFORMATION. PIPING SHALL BE TYPE DW OR TYPE M COPPER INSTALLED A MINIMUM OF 1/2" OFF ADJACENT FLOOR AND WALL SURFACES.
 - COORDINATE ALL FURRING REQUIREMENTS AND WALL THICKNESS WITH REGARD TO PIPE AND WALL CLEANOUT INSTALLATIONS.
 - COORDINATE ACCESS PANEL LOCATIONS WITH INTERIOR ELEVATIONS TO AVOID CONFLICTS WITH EQUIPMENT, GRAB BARS OR DECORATIVE ELEMENTS.
 - RECORD DRAWINGS USED FOR DESIGN MAY NOT REFLECT CURRENT LAYOUT OF STORE. PLUMBING CONTRACTOR SHALL FIELD VERIFY ALL EXISTING PIPING AND FIXTURE LOCATIONS PRIOR TO START OF WORK.
 - DEMOLISHED FIXTURES/EQUIPMENT SHALL BE REMOVED FROM THE BUILDING AND DISPOSED OF PROPERLY.
 - WASTE, VENT AND WATER PIPING FROM DEMOLISHED FIXTURES/EQUIPMENT SHALL BE CAPPED AT MAIN ABOVE CEILING, BELOW FLOOR AND AT WALL AS REQUIRED. ALL ABANDONED PIPING SHALL BE REMOVED FROM THE BUILDING AND DISPOSED OF PROPERLY. PATCH FLOOR AND WALLS AS REQUIRED.
 - PLUMBER SHALL COORDINATE REMOVAL OF FIXTURES/EQUIPMENT/PIPING WITH ALL OTHER DISCIPLINES.

- # SHEET NOTES:**
- DEMOLISH EXISTING COMPRESSED AIR PIPING, SHUTOFF VALVES, AND PIPING COMPONENTS AS SHOWN SHADED AND REMOVE OFF SITE.
 - DEMOLISH EXISTING COMPRESSED AIR PIPE DROP, INLINE AIR FILTER, AND AIR HOSE QUICK CONNECTS AS SHOWN SHADED AND REMOVE OFF SITE.
 - RELOCATE EXISTING COMPRESSED AIR RECEIVER TANK TO NEW MECHANICAL ROOM. RE: P2.1A-1 FOR NEW LOCATION.
 - REMOVE EXISTING COMPRESSOR AND DELIVER TO THE OWNER.
 - REMOVE ALL EXISTING NG PIPING FROM METER TO BOILER EQUIPMENT BEING DEMOLISHED. VERIFY EXACT DEMOLITION REQUIREMENTS IN FIELD PRIOR TO START OF WORK.
 - REMOVE ALL EXISTING NG PIPING FROM METER TO HVAC EQUIPMENT BEING DEMOLISHED. VERIFY EXACT DEMOLITION REQUIREMENTS IN FIELD PRIOR TO START OF WORK.
 - REMOVE EXISTING 2" CW SERVICE AND BUILDING WITH SHUT-OFF VALVE.
 - EXISTING COMPRESSED AIR HOSE REEL TO REMAIN.
 - REMOVE ALL EXISTING PLUMBING FIXTURES AND EQUIPMENT IN THIS AREA. VERIFY EXACT DEMOLITION REQUIREMENTS IN FIELD PRIOR TO START OF WORK.
 - EXISTING OVERHEAD PIPING TO REMAIN.
 - EXISTING PIPING BELOW FLOOR TO REMAIN.
 - REMOVE EXISTING CW PIPING AND REPLACE WITH NEW. VERIFY EXACT DEMOLITION REQUIREMENTS IN FIELD PRIOR TO START OF WORK.
 - REMOVE SERVICE SINK, FLOOR DRAIN AND WATER HEATER IN JANITORS CLOSET. RETAIN HW PIPING SERVING EXISTING TOILET ROOM AND EMPLOYEE BREAKROOM FOR CONNECTION TO NEW HW PIPING.
 - REMOVE EXISTING SUMP PIT AND REMOVE PUMP, CAP AND ABANDON ALL RELATED WASTE AND VENT PIPING BELOW FLOOR AS REQUIRED. VERIFY EXACT DEMOLITION REQUIREMENTS IN FIELD PRIOR TO START OF WORK.
 - REMOVE EXISTING FLOOR DRAIN AND FLOOR CLEANOUT, CAP AND ABANDON ALL RELATED WASTE AND VENT PIPING BELOW FLOOR AS REQUIRED. VERIFY EXACT DEMOLITION REQUIREMENTS IN FIELD PRIOR TO START OF WORK.

- REVISED**
- 1 ADDENDUM NO. ONE 06-15-18
 - 2 ADDENDUM NO. THREE 06-24-18
 - 3 RESPONSE TO RFI 013 06-06-18

BUILDING KEY PLAN



1 DEMOLITION PLAN AREA A
SCALE 1/8" = 1'-0"



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GARDEN CITY, ID**

CSHOA

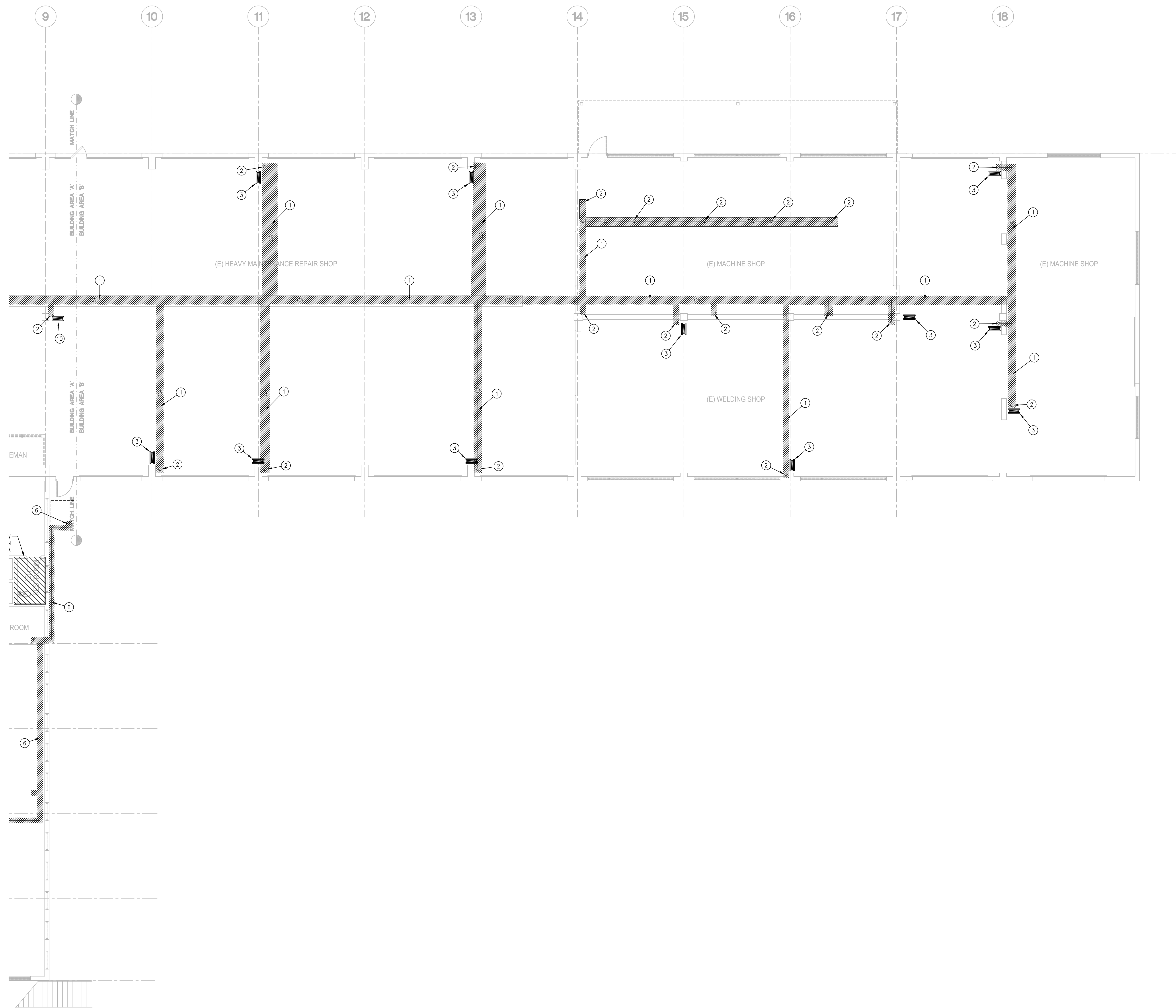
PROJECT: 18059.00 DATE: 5-2-18
DRAWN: KRA CHECKED: RCP

REVISIONS:
1 ADDENDUM NO. ONE 06-15-18
2 ADDENDUM NO. THREE 06-24-18
3 RESPONSE TO RFI 013 06-06-18

SHEET TITLE:
PLUMBING DEMOLITION PLAN AREA A

SHEET:
P11A

ORIGINAL SHEET SIZE:
30" x 42"



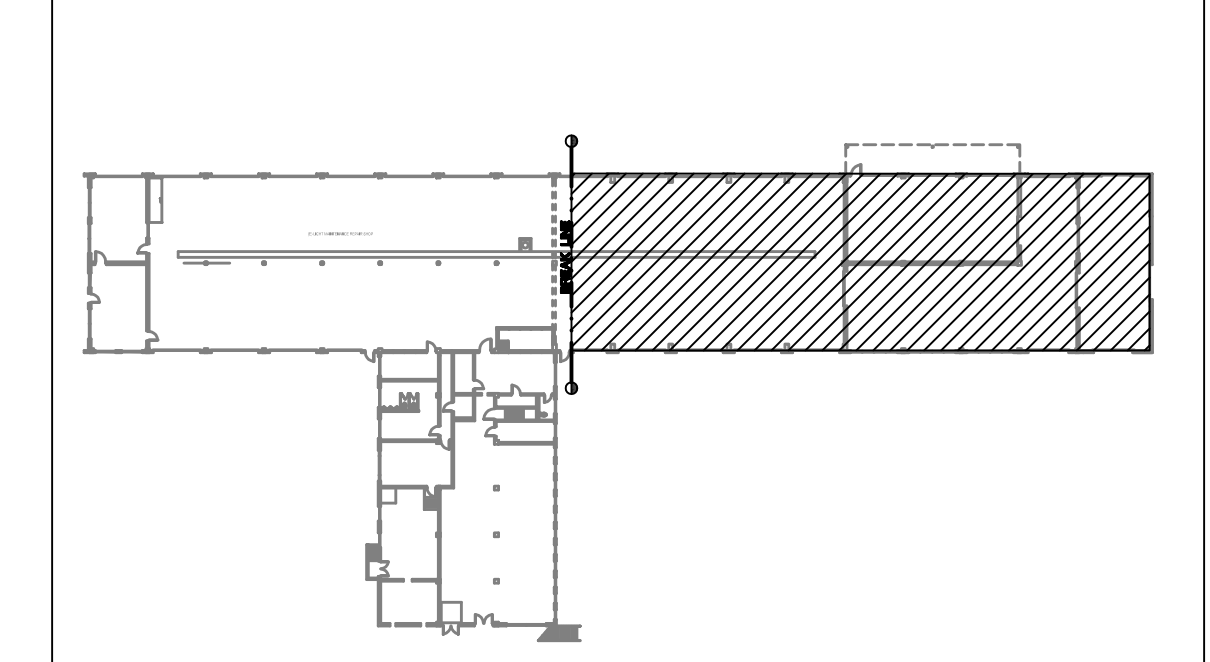
LEGEND:

NEW	EXISTING	TO BE DEMOLISHED	
---	---	---	DOMESTIC COLD WATER
---	---	---	DOMESTIC HOT WATER
---	---	---	DOMESTIC HOT WATER RETURN
---	---	---	PLUMBING EQUIPMENT
---	---	---	PLUMBING EQUIPMENT ON ROOF
---NG---	---NG---	---	NATURAL GAS
---MPG---	---MPG---	---	MEDIUM PRESSURE GAS
---CD---	---CD---	---	CONDENSATE DRAIN
---CA---	---CA---	---	CONDENSATE DRAIN
---SS---	---SS---	---	SANITARY SEWER (BELOW GRADE)
---	---	---	SANITARY VENT
		WC X	FIXTURE OR EQUIPMENT TAG (RE: FIXTURE AND EQUIPMENT SCHEDULES)

- GENERAL NOTES:**
- PRIOR TO INSTALLING ANY PIPING, VERIFY EXISTING CONDITIONS AND INVERTS. NOTIFY GC/ARCHITECT OF ANY CONDITIONS THAT WILL NOT ALLOW FOR INVERTS NOTED.
 - SLOPE ALL DRAINAGE PIPING AS FOLLOWS:
 - SANITARY SEWER BRANCH PIPING AT 1/4" PER FOOT.
 - INDIRECT WASTE PIPING AT 1/4" PER FOOT.
 - PROVIDE INDIRECT WASTE PIPING TO RECEPTORS FROM ALL EQUIPMENT AS REQUIRED. REFER TO FIXTURE SCHEDULES FOR FURTHER INFORMATION. PIPING SHALL BE TYPE DWV OR TYPE M COPPER INSTALLED A MINIMUM OF 1/2" OFF ADJACENT FLOOR AND WALL SURFACES.
 - COORDINATE ALL FURRING REQUIREMENTS AND WALL THICKNESS WITH REGARD TO PIPE AND WALL CLEANOUT INSTALLATIONS.
 - COORDINATE ACCESS PANEL LOCATIONS WITH INTERIOR ELEVATIONS TO AVOID CONFLICTS WITH EQUIPMENT, GRAB BARS OR DECORATIVE ELEMENTS.
 - RECORD DRAWINGS USED FOR DESIGN MAY NOT REFLECT CURRENT LAYOUT OF STORE. PLUMBING CONTRACTOR SHALL FIELD VERIFY ALL EXISTING PIPING AND FIXTURE LOCATIONS PRIOR TO START OF WORK.
 - DEMOLISHED FIXTURES/EQUIPMENT SHALL BE REMOVED FROM THE BUILDING AND DISPOSED OF PROPERLY.
 - WASTE, VENT AND WATER PIPING FROM DEMOLISHED FIXTURES/EQUIPMENT SHALL BE CAPPED AT MAIN ABOVE CEILING, BELOW FLOOR AND AT WALL AS REQUIRED. ALL ABANDONED PIPING SHALL BE REMOVED FROM THE BUILDING AND DISPOSED OF PROPERLY. PATCH FLOOR AND WALLS AS REQUIRED.
 - PLUMBER SHALL COORDINATE REMOVAL OF FIXTURES/EQUIPMENT/PIPING WITH ALL OTHER DISCIPLINES.

- # SHEET NOTES:**
- DEMOLISH EXISTING COMPRESSED AIR PIPING, SHUTOFF VALVES, AND PIPING COMPONENTS AS SHOWN SHADED AND REMOVE OFF SITE.
 - DEMO EXISTING COMPRESSED AIR DROP, EXISTING INLINE AIR FILTER, AIR HOSE QUICK CONNECTS, AND REMOVE OFF SITE. REPLACE ALL HOSE QUICK CONNECTS WITH NEW UNITS. RE: P2.1A AND P2.1B FOR SPECIFIC DIRECTION.
 - EXISTING COMPRESSED AIR HOSE REEL TO REMAIN.
 - NOT USED.
 - REMOVE ALL EXISTING NG PIPING FROM METER TO BOILER EQUIPMENT BEING DEMOLISHED. VERIFY EXACT DEMOLITION REQUIREMENTS IN FIELD PRIOR TO START OF WORK.
 - REMOVE ALL EXISTING NG PIPING FROM METER TO HVAC EQUIPMENT BEING DEMOLISHED. VERIFY EXACT DEMOLITION REQUIREMENTS IN FIELD PRIOR TO START OF WORK.
 - EXISTING 2" CW SERVICE INTO BUILDING WITH SHUT-OFF VALVE TO REMAIN.

BUILDING KEY PLAN



1 DEMOLITION PLAN AREA B
SCALE 1/8" = 1'-0"



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**FOR CONSTRUCTION
6/25/18**

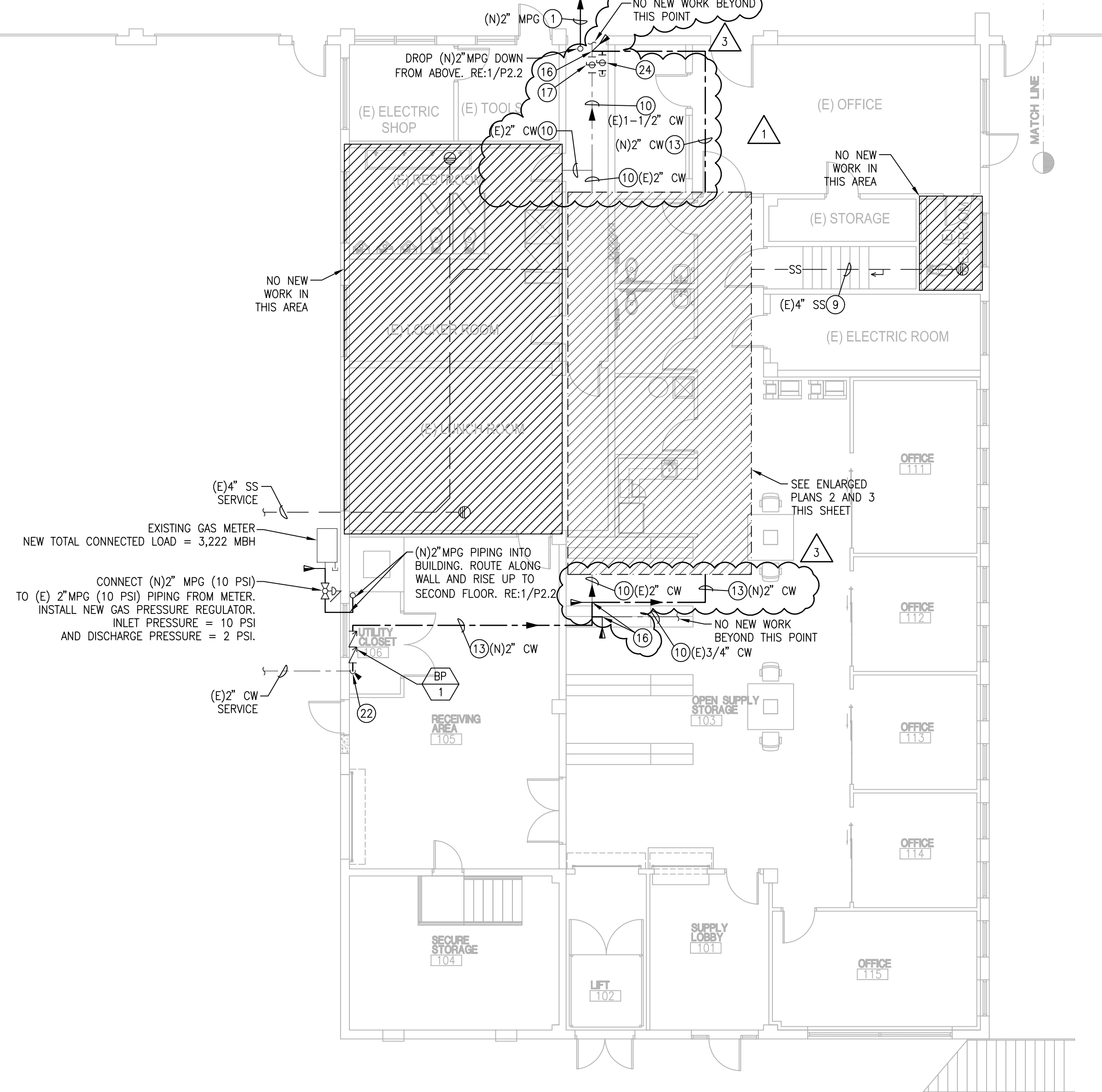
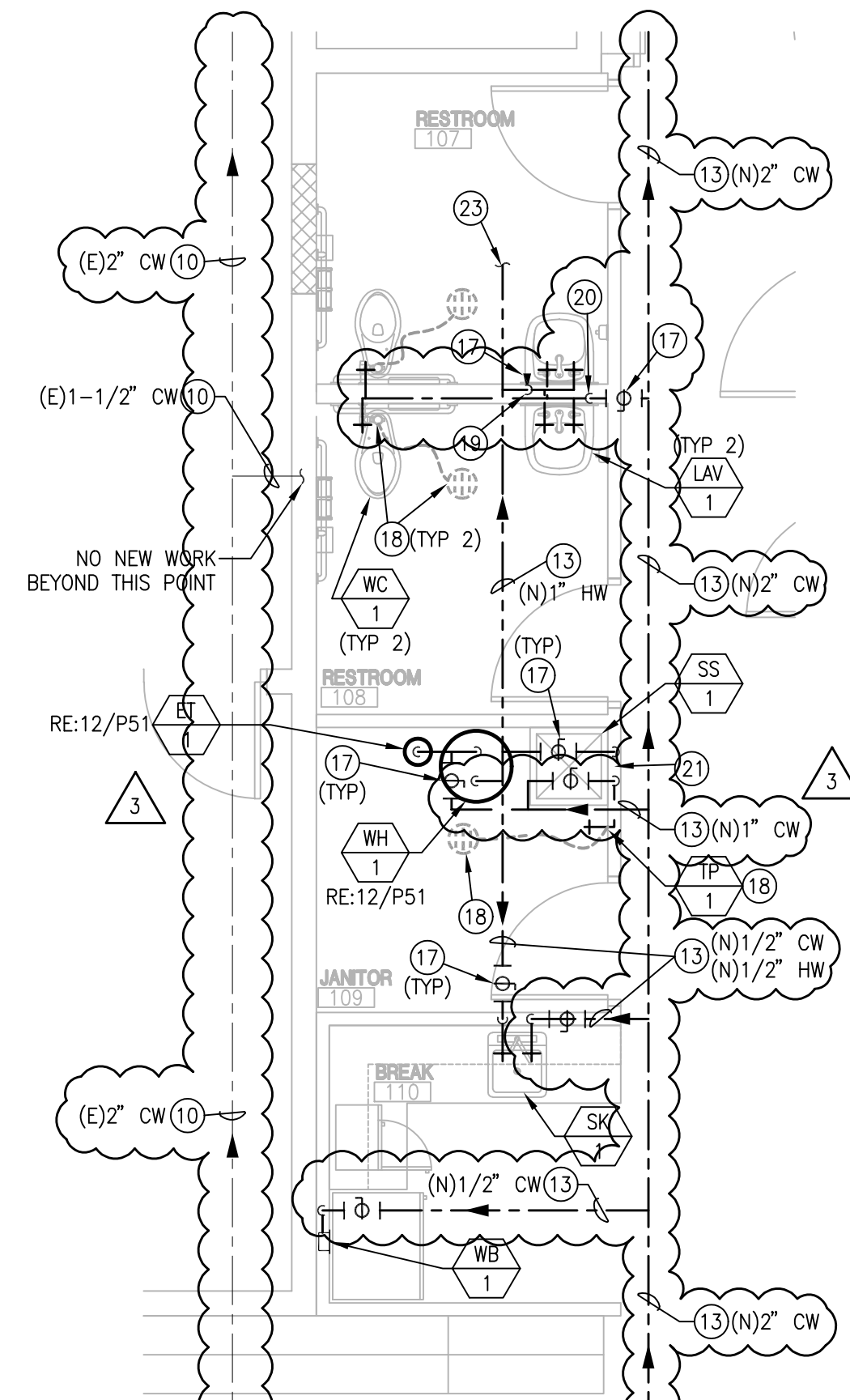
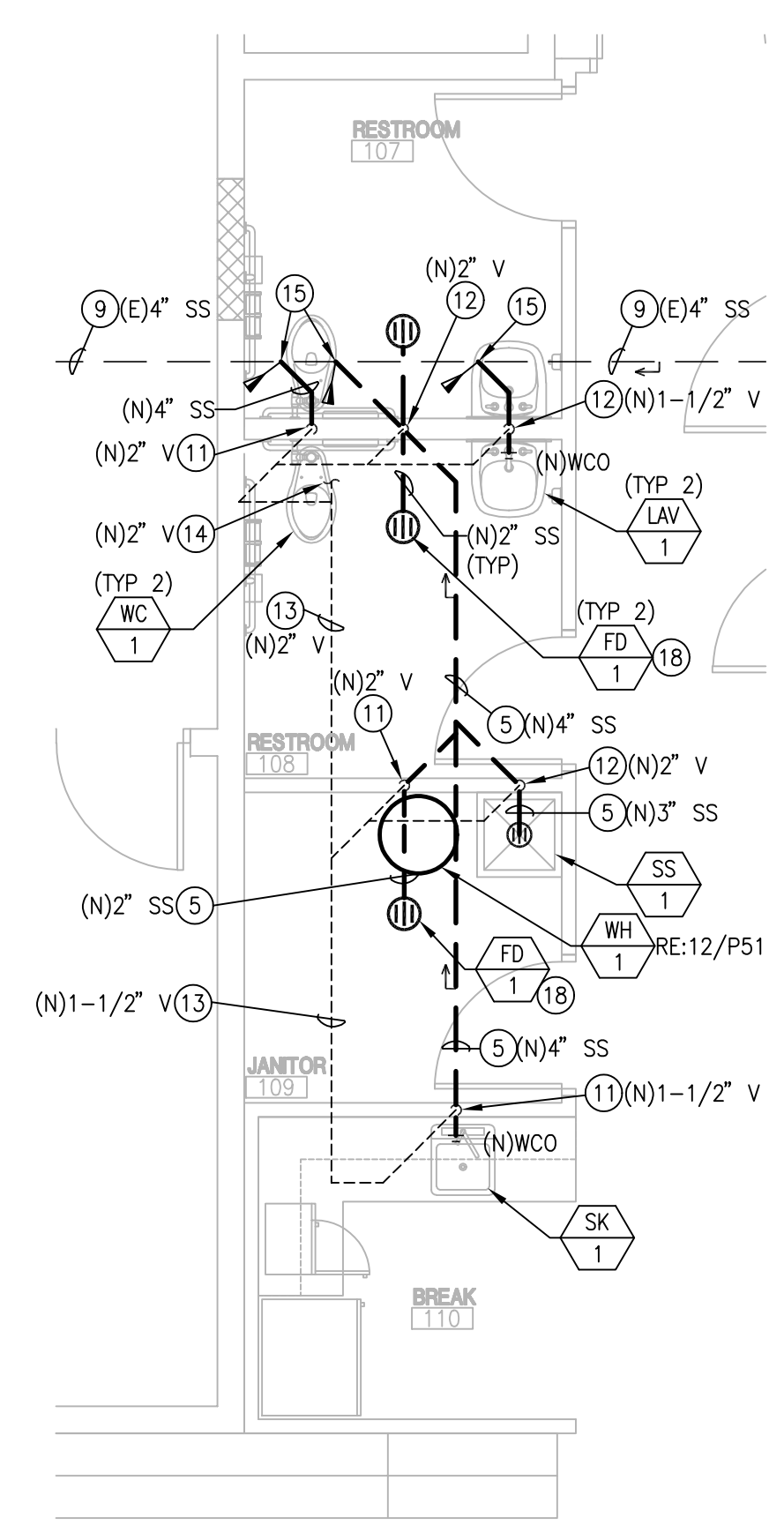
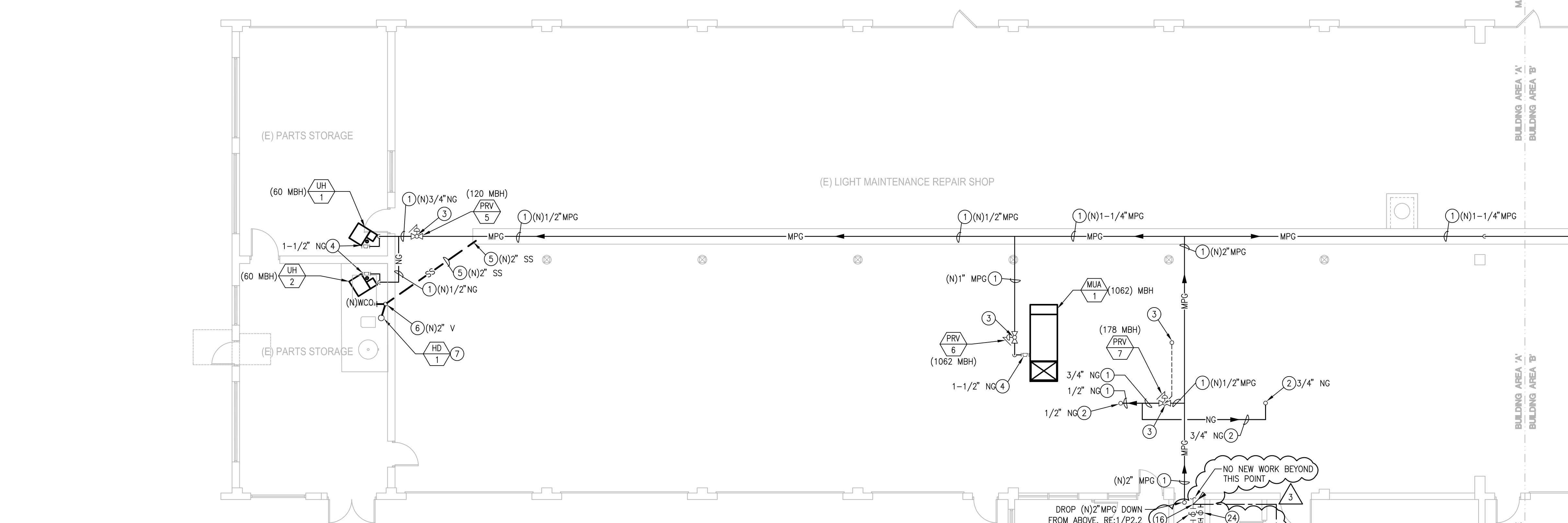
PROJECT 18059.00	DATE 5-2-18
DRAWN KRA	CHECKED RCP

REVISED

SHEET TITLE
**PLUMBING
DEMOLITION
PLAN AREA B**

SHEET
P11B

ORIGINAL SHEET SIZE
30" x 42"



2 ENLARGED WASTE & VENT PLAN AREA A
SCALE 1/4" = 1'-0"

3 ENLARGED WATER PLAN AREA A
SCALE 1/4" = 1'-0"

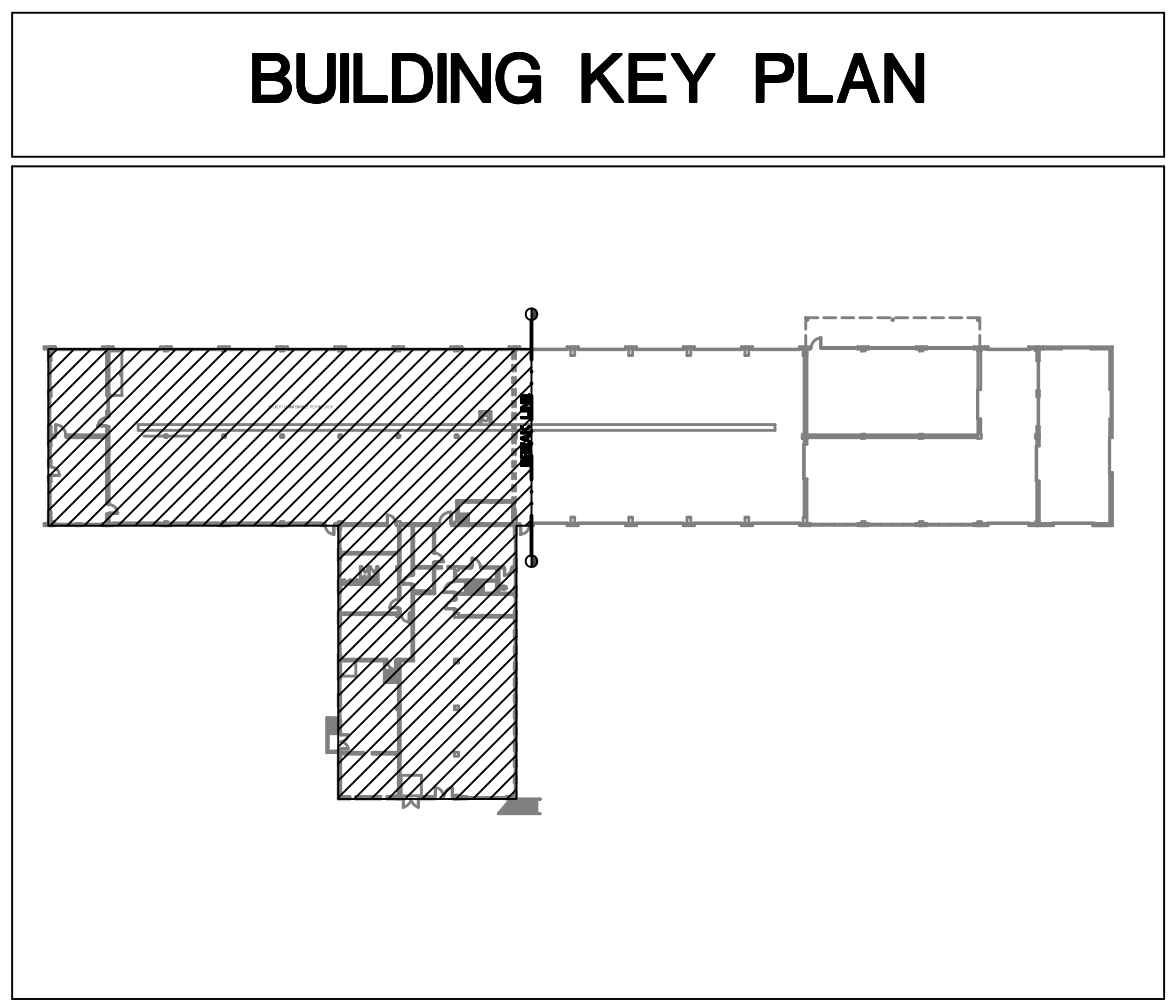
1 PLUMBING PLAN AREA A
SCALE 1/8" = 1'-0"

LEGEND:

NEW	EXISTING	TO BE DEMOLISHED	
---	---	---	DOMESTIC COLD WATER
---	---	---	DOMESTIC HOT WATER
---	---	---	DOMESTIC HOT WATER RETURN
---	---	---	PLUMBING EQUIPMENT
---	---	---	PLUMBING EQUIPMENT ON ROOF
---	---	---	NATURAL GAS
---	---	---	MEDIUM PRESSURE GAS
---	---	---	CONDENSATE DRAIN
---	---	---	CONDENSATE DRAIN
---	---	---	SANITARY SEWER (BELOW GRADE)
---	---	---	SANITARY VENT
---	---	---	FIXTURE OR EQUIPMENT TAG (RE: FIXTURE AND EQUIPMENT SCHEDULES)

- ### GENERAL NOTES:
- PRIOR TO INSTALLING ANY PIPING, VERIFY EXISTING CONDITIONS AND INVERTS. NOTIFY GC/ARCHITECT OF ANY CONDITIONS THAT WILL NOT ALLOW FOR INVERTS NOTED.
 - SLOPE ALL DRAINAGE PIPING AS FOLLOWS:
 - SANITARY SEWER BRANCH PIPING AT 1/4" PER FOOT.
 - INDIRECT WASTE PIPING AT 1/4" PER FOOT.
 - PROVIDE INDIRECT WASTE PIPING TO RECEPTORS FROM ALL EQUIPMENT AS REQUIRED. REFER TO FIXTURE SCHEDULES FOR FURTHER INFORMATION. PIPING SHALL BE TYPE DWV OR TYPE M COPPER INSTALLED A MINIMUM OF 1/2" OFF ADJACENT FLOOR AND WALL SURFACES.
 - COORDINATE ALL FURRING REQUIREMENTS AND WALL THICKNESS WITH REGARD TO PIPE AND WALL CLEANOUT INSTALLATIONS.
 - COORDINATE ACCESS PANEL LOCATIONS WITH INTERIOR ELEVATIONS TO AVOID CONFLICTS WITH EQUIPMENT, GRAB BARS OR DECORATIVE ELEMENTS.
 - RECORD DRAWINGS USED FOR DESIGN MAY NOT REFLECT CURRENT LAYOUT OF STORE. PLUMBING CONTRACTOR SHALL FIELD VERIFY ALL EXISTING PIPING AND FIXTURE LOCATIONS PRIOR TO START OF WORK.
 - DEMOLISHED FIXTURES/EQUIPMENT SHALL BE REMOVED FROM THE BUILDING AND DISPOSED OF PROPERLY.
 - WASTE, VENT AND WATER PIPING FROM DEMOLISHED FIXTURES/EQUIPMENT SHALL BE CAPPED AT MAIN ABOVE CEILING, BELOW FLOOR AND AT WALL AS REQUIRED. ALL ABANDONED PIPING SHALL BE REMOVED FROM THE BUILDING AND DISPOSED OF PROPERLY. PATCH FLOOR AND WALLS AS REQUIRED.
 - PLUMBER SHALL COORDINATE REMOVAL OF FIXTURES/EQUIPMENT/PIPING WITH ALL OTHER DISCIPLINES.

- ### # SHEET NOTES:
- ROUTE NEW PIPING OVERHEAD. COORDINATE ROUTING WITH EXISTING CRANE HEIGHT, STRUCTURE AND ALL EXISTING DUCTWORK AND/OR ELECTRICAL PIPING/EQUIPMENT. VERIFY EXACT ROUTING IN FIELD PRIOR TO START OF WORK.
 - ROUTE (N) PIPING UP THROUGH ROOF. RE:1/P2.3.
 - ROUTE NEW 1" VENT FROM GAS PRESSURE REGULATOR UP THROUGH ROOF. LOCATE NEW VENT MINIMUM 10'-0" FROM ALL AIR INTAKES. VERIFY AND MAKE ADJUSTMENT TO VTR LOCATIONS IN FIELD PRIOR TO START OF WORK.
 - MAKE CONNECTION TO EQUIPMENT WITH CSA LISTED SHUT-OFF VALVE, FLEXIBLE CONNECTOR, UNION AND 6" DIRT LEG.
 - ROUTE NEW PIPING BELOW FLOOR. SAW-CUT AND PATCH FLOOR AS REQUIRED. VERIFY EXACT INSTALLATION CONDITIONS AND REQUIREMENTS IN FIELD PRIOR TO START OF WORK.
 - ROUTE NEW VENT PIPING UP TO AS HIGH AS POSSIBLE AND VENT THROUGH ROOF. VERIFY LOCATION OF EXISTING ROOFTOP EQUIPMENT AND LOCATE NEW VENT MINIMUM 10'-0" FROM ALL EXISTING AIR INTAKES. VERIFY AND MAKE ADJUSTMENT TO VTR LOCATIONS IN FIELD PRIOR TO START OF WORK.
 - ROUTE INDIRECT WASTE AND CONDENSATE PIPING FROM AIR COMPRESSOR EQUIPMENT TO 4X2 HUB DRAIN, HD-1 AND CONNECT INDIRECTLY WITH MINIMUM 1" AIR GAP. SLOPE AT 1/4" PER FOOT. COORDINATE ALL DRAINAGE PIPING FROM EQUIPMENT IN FIELD.
 - SPILL NEW 2" WASTE LINE INTO END OF EXISTING TRENCH DRAIN.
 - EXISTING PIPING BELOW FLOOR TO REMAIN.
 - EXISTING OVERHEAD PIPING TO REMAIN.
 - ROUTE NEW VENT PIPING UP TO AS HIGH AS POSSIBLE AND ROUTE OVERHEAD.
 - ROUTE NEW VENT PIPING UP IN WALL TO +6" ABOVE FLOOR RIM LEVEL OF FIXTURE. ROUTE HORIZONTALLY IN WALL TO RISER.
 - ROUTE NEW PIPING OVERHEAD. COORDINATE ROUTING WITH STRUCTURE AND DUCTWORK LAYOUT.
 - CONNECT NEW OVERHEAD VENT PIPING TO EXISTING VENT SYSTEM AND VENT THROUGH ROOF. VERIFY EXACT LOCATION OF EXISTING VENT PIPING AND CONNECTION REQUIREMENTS IN FIELD PRIOR TO START OF WORK.
 - CONNECT NEW WASTE LINE TO EXISTING WASTE LINE BELOW FLOOR. VERIFY EXACT SIZE AND LOCATION OF EXISTING PIPING IN FIELD PRIOR TO START OF WORK.
 - CONNECT NEW OVERHEAD WATER PIPING TO EXISTING OVERHEAD PIPING. VERIFY EXACT SIZE, LOCATION AND CONNECTION REQUIREMENTS IN FIELD PRIOR TO START OF WORK.
 - PROVIDE NEW ISOLATION VALVES. PROVIDE ACCESS PANELS WHERE LOCATED OVER HARD CEILINGS OR IN VERTICAL DROPS.
 - ROUTE PIPING FROM TRAP PRIMER DOWN TO BELOW FLOOR AND MAKE CONNECTION TO FLOOR SINK TRAP. ALL PIPING BELOW FLOOR SHALL BE PEX TUBING WITH NO JOINTS BELOW FLOOR.
 - DROP 1/2" HW DOWN, RUN IN WALL AND CONNECT TO MW-1 BELOW EACH LAV-1. ROUTE 105" HW TO EACH LAV-1.
 - DROP 1-1/2" CW DOWN TO 1-1/2" CW HEADER IN WALL. CONNECT 1" CW TO EACH WC-1, 1/2" CW TO EACH LAV-1 AND 1/2" CW TO MW-1 BELOW LAV-1.
 - DROP 1/2" HW-CW DOWN IN WALL. CONNECT 1/2" HW-CW TO SS-1 AND ROUTE 1/2" CW IN WALL TO TP-1.
 - CONNECT NEW 2" CW LINE TO EXISTING CW SERVICE. INSTALL NEW BUILDING SHUT-OFF VALVE AT NEW FLOOR LEVEL AND ROUTE THROUGH NEW DOUBLE CHECK BACKFLOW PREVENTER, BP-1 AND RISE UP AND ROUTE AS HIGH AS POSSIBLE IN STRUCTURE.
 - EXTEND NEW 1" HW AND MAKE CONNECTION TO EXISTING HW PIPING SERVING THE (E)JANITORIES AND (E)BREAK ROOM SINK. VERIFY EXACT LOCATION OF EXISTING PIPING AND CONNECTION REQUIREMENTS IN FIELD PRIOR TO START OF WORK.
 - CAP 2" CW WITH BALL VALVE FOR FUTURE CONNECTION.



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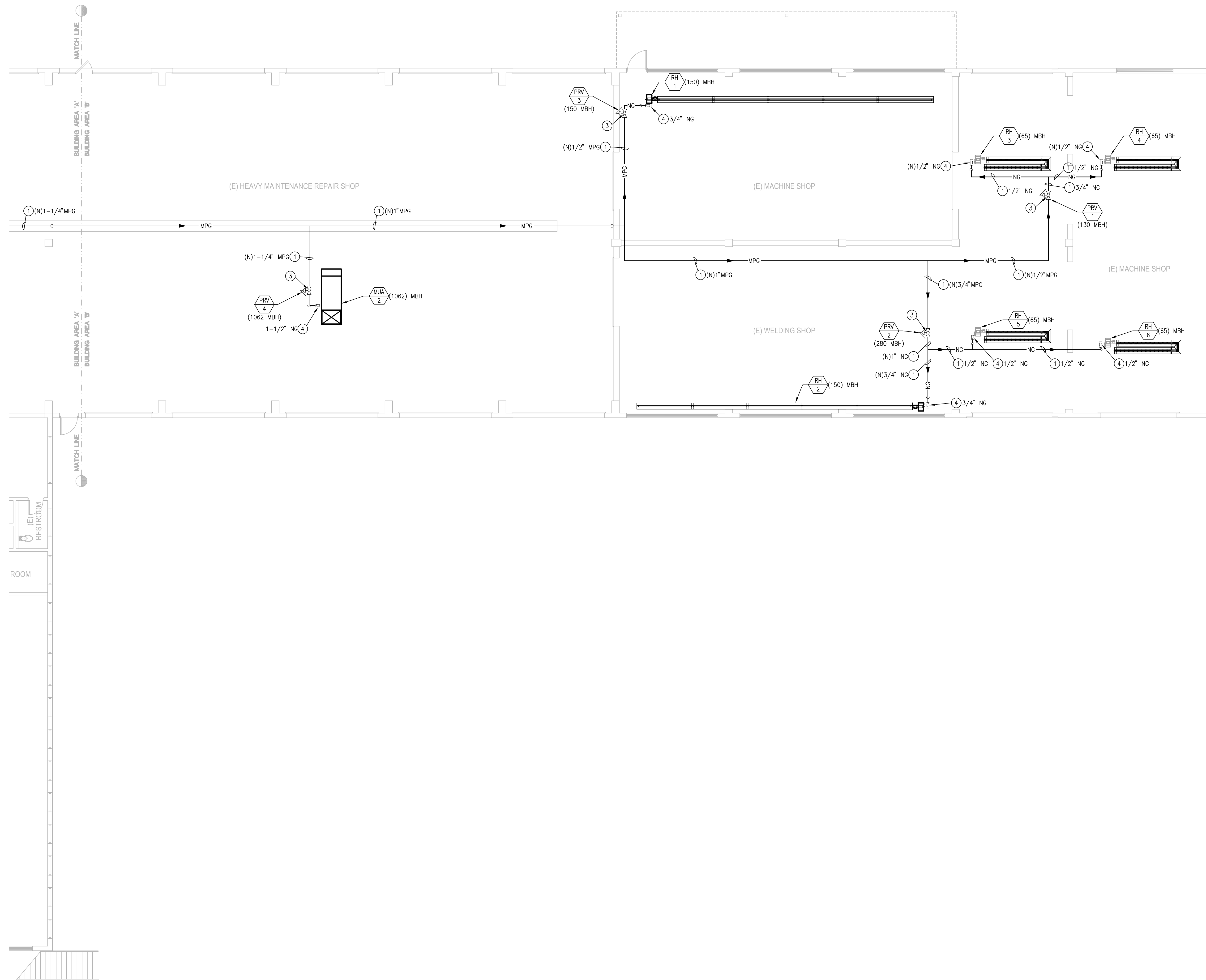
PROJECT	DATE
18059.00	5-2-18
DRAWN	CHECKED
KMH	RCF

- REVISED
- ADDENDUM NO. ONE 05-15-18
 - RESPONSE TO RFI 013 08-06-18

SHEET TITLE
PLUMBING PLAN AREA A

SHEET
P21A

ORIGINAL SHEET SIZE
30" x 42"

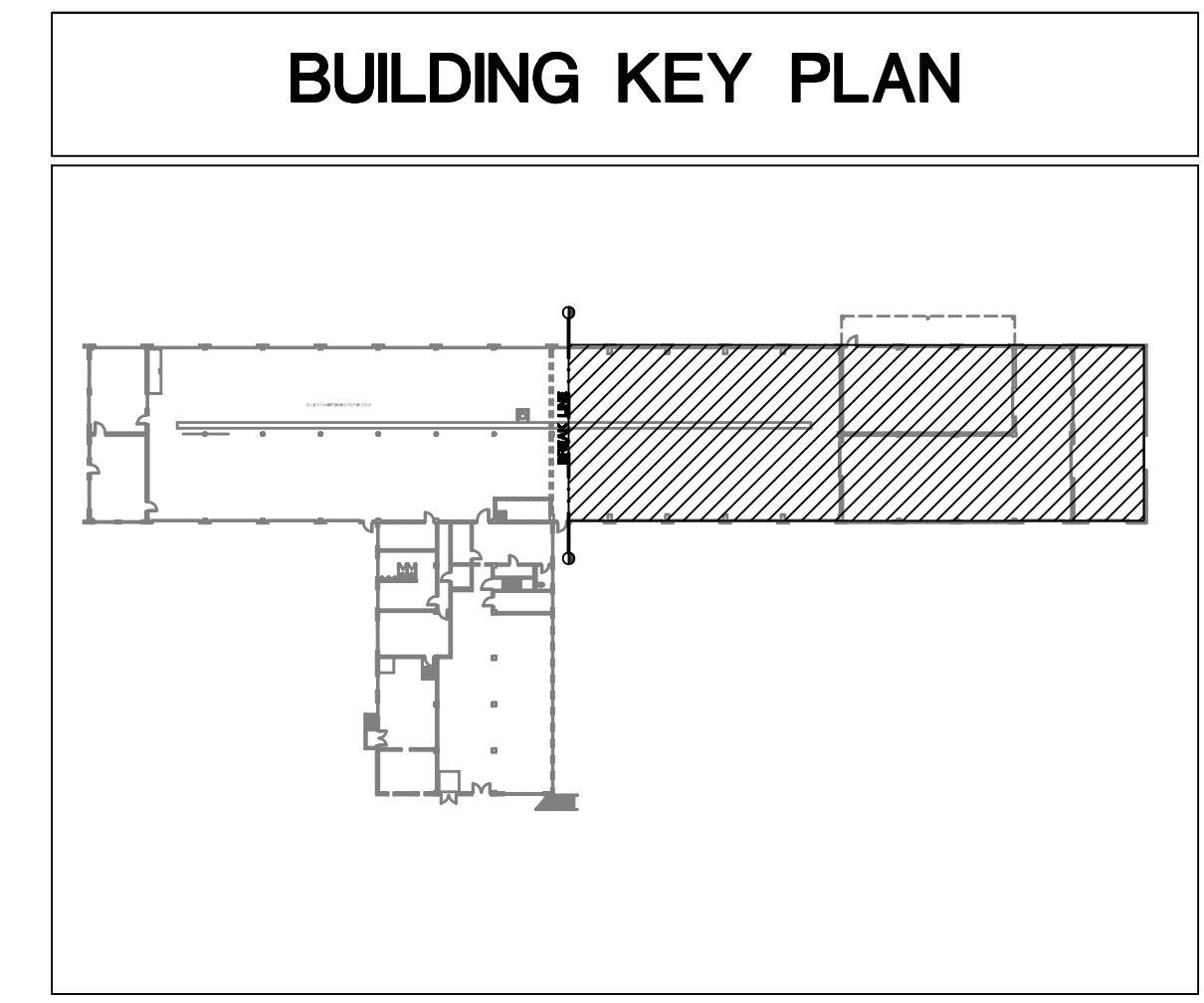


LEGEND:

NEW	EXISTING	TO BE DEMOLISHED	
---	---	---	DOMESTIC COLD WATER
---	---	---	DOMESTIC HOT WATER
---	---	---	DOMESTIC HOT WATER RETURN
---	---	---	PLUMBING EQUIPMENT
---	---	---	PLUMBING EQUIPMENT ON ROOF
---	---	---	NATURAL GAS
---	---	---	MEDIUM PRESSURE GAS
---	---	---	CONDENSATE DRAIN
---	---	---	CONDENSATE DRAIN
---	---	---	SANITARY SEWER (BELOW GRADE)
---	---	---	SANITARY VENT
			FIXTURE OR EQUIPMENT TAG (RE- FIXTURE AND EQUIPMENT SCHEDULES)

- GENERAL NOTES:**
- PRIOR TO INSTALLING ANY PIPING, VERIFY EXISTING CONDITIONS AND INVERTS. NOTIFY GC/ARCHITECT OF ANY CONDITIONS THAT WILL NOT ALLOW FOR INVERTS NOTED.
 - SLOPE ALL DRAINAGE PIPING AS FOLLOWS:
 - SANITARY SEWER BRANCH PIPING AT 1/4" PER FOOT.
 - INDIRECT WASTE PIPING AT 1/4" PER FOOT.
 - PROVIDE INDIRECT WASTE PIPING TO RECEPTORS FROM ALL EQUIPMENT AS REQUIRED. REFER TO FIXTURE SCHEDULES FOR FURTHER INFORMATION. PIPING SHALL BE TYPE DWV OR TYPE M COPPER INSTALLED A MINIMUM OF 1/2" OFF ADJACENT FLOOR AND WALL SURFACES.
 - COORDINATE ALL FURRING REQUIREMENTS AND WALL THICKNESS WITH REGARD TO PIPE AND WALL CLEANOUT INSTALLATIONS.
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 - WASTE, VENT AND WATER PIPING FROM DEMOLISHED FIXTURES/EQUIPMENT SHALL BE CAPPED AT MAIN ABOVE CEILING, BELOW FLOOR AND AT WALL AS REQUIRED. ALL ABANDONED PIPING SHALL BE REMOVED FROM THE BUILDING AND DISPOSED OF PROPERLY. PATCH FLOOR AND WALLS AS REQUIRED.
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- # SHEET NOTES:**
- ROUTE NEW PIPING OVERHEAD. COORDINATE ROUTING WITH EXISTING STRUCTURE AND ALL EXISTING DUCTWORK AND/OR ELECTRICAL PIPING/EQUIPMENT. VERIFY EXACT ROUTING IN FIELD PRIOR TO START OF WORK.
 - NOT USED
 - ROUTE NEW 1" VENT FROM GAS PRESSURE REGULATOR UP THROUGH ROOF. LOCATE NEW VENT MINIMUM 10'-0" FROM ALL AIR INTAKES. VERIFY AND MAKE ADJUSTMENT TO VTR LOCATIONS IN FIELD PRIOR TO START OF WORK.
 - MAKE CONNECTION TO EQUIPMENT WITH CSA LISTED SHUT-OFF VALVE, FLEXIBLE CONNECTOR, UNION AND 6" DIRT LEG.



1 PLUMBING PLAN AREA B
SCALE 1/8" = 1'-0"



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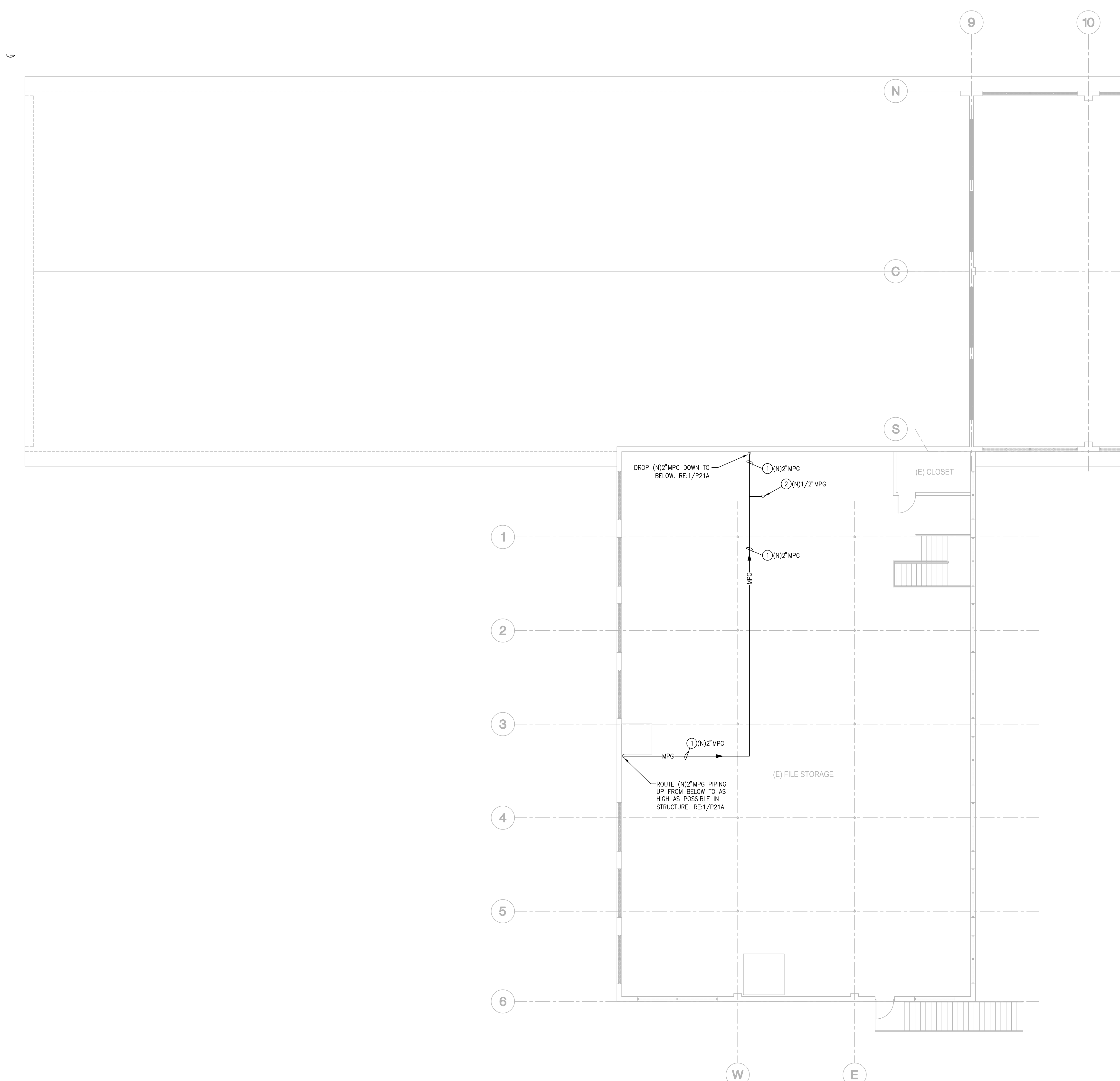
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**FOR CONSTRUCTION
6/25/18**

PROJECT 18059.00	DATE 5-2-18
DRAWN KMH	CHECKED RCP
REVISED	

SHEET TITLE
PLUMBING PLAN AREA B

SHEET
P21B
ORIGINAL SHEET SIZE
30" x 42"



1 GAS PLAN SECOND FLOOR
SCALE 1/8" = 1'-0"

NEW	EXISTING	TO BE DEMOLISHED	
---	---	----	DOMESTIC COLD WATER
---	---	----	DOMESTIC HOT WATER
---	---	----	DOMESTIC HOT WATER RETURN
---	---	----	PLUMBING EQUIPMENT
---	---	----	PLUMBING EQUIPMENT ON ROOF
—NG—	—NG—	----	NATURAL GAS
—MPG—	—MPG—	----	MEDIUM PRESSURE GAS
—CD—	—CD—	----	CONDENSATE DRAIN
—CA—	—CA—	----	CONDENSATE DRAIN
—SS—	—SS—	----	SANITARY SEWER (BELOW GRADE)
---	---	----	SANITARY VENT
		WC X	FIXTURE OR EQUIPMENT TAG (REF: FIXTURE AND EQUIPMENT SCHEDULES)

- GENERAL NOTES:**
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 - SLOPE ALL DRAINAGE PIPING AS FOLLOWS:
 - SANITARY SEWER BRANCH PIPING AT 1/4" PER FOOT.
 - INDIRECT WASTE PIPING AT 1/4" PER FOOT.
 - PROVIDE INDIRECT WASTE PIPING TO RECEPTORS FROM ALL EQUIPMENT AS REQUIRED. REFER TO FIXTURE SCHEDULES FOR FURTHER INFORMATION. PIPING SHALL BE TYPE DWV OR TYPE M COPPER INSTALLED A MINIMUM OF 1/2" OFF ADJACENT FLOOR AND WALL SURFACES.
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 - DEMOLISHED FIXTURES/EQUIPMENT SHALL BE REMOVED FROM THE BUILDING AND DISPOSED OF PROPERLY.
 - WASTE, VENT AND WATER PIPING FROM DEMOLISHED FIXTURES/EQUIPMENT SHALL BE CAPPED AT MAIN ABOVE CEILING, BELOW FLOOR AND AT WALL AS REQUIRED. ALL ABANDONED PIPING SHALL BE REMOVED FROM THE BUILDING AND DISPOSED OF PROPERLY. PATCH FLOOR AND WALLS AS REQUIRED.
 - PLUMBER SHALL COORDINATE REMOVAL OF FIXTURES/EQUIPMENT/PIPING WITH ALL OTHER DISCIPLINES.

- # SHEET NOTES:**
- ROUTE NEW PIPING OVERHEAD. COORDINATE ROUTING WITH EXISTING STRUCTURE AND ALL EXISTING DUCTWORK AND/OR ELECTRICAL PIPING/EQUIPMENT. VERIFY EXACT ROUTING IN FIELD PRIOR TO START OF WORK.
 - ROUTE (N)2 PSI GAS PIPING UP THROUGH ROOF. RE:1/P24.

BUILDING KEY PLAN

SECOND FLOOR PLUMBING PLAN

SHEET TITLE

P22

SHEET

ORIGINAL SHEET SIZE
30" x 42"

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GARDEN CITY, ID

CSHOA

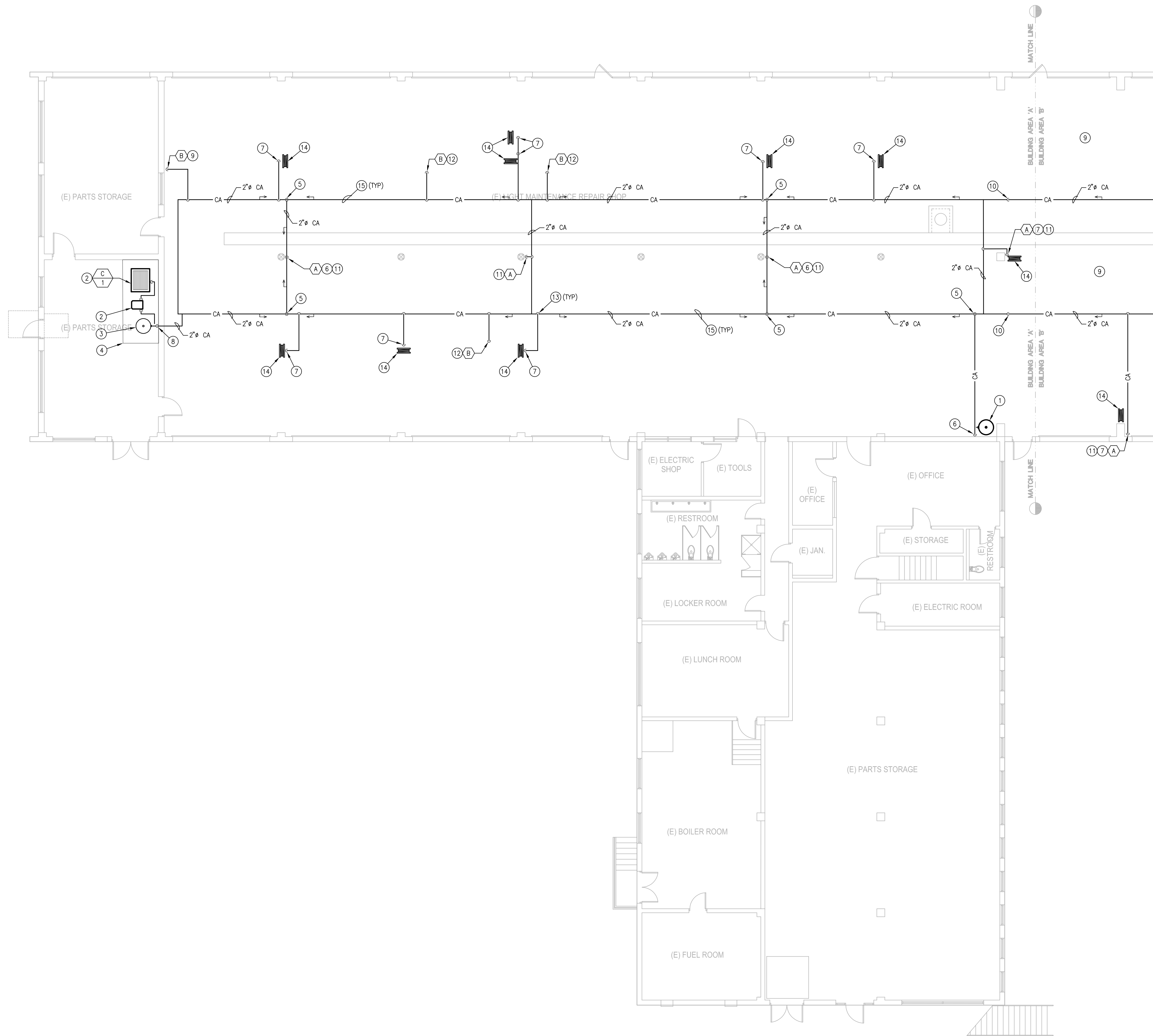
FOR CONSTRUCTION
6/25/18

PROJECT: 18059.00 DATE: 5-2-18
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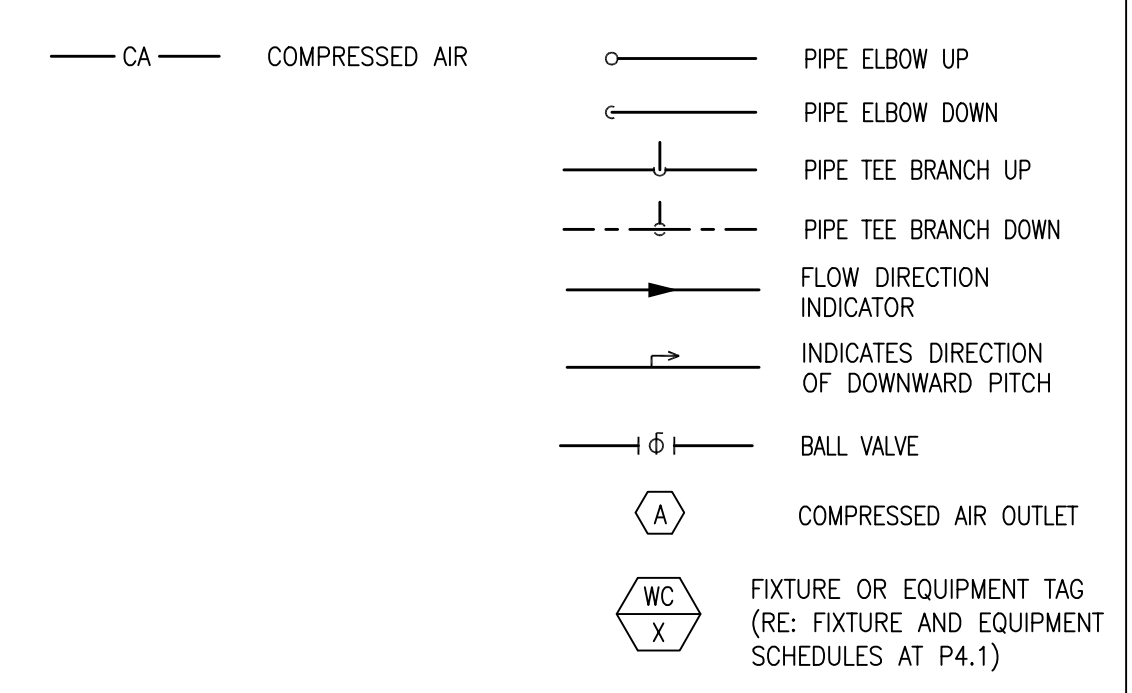
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STATE OF IDAHO
REGISTERED PROFESSIONAL ENGINEER
LICENSE NO. 13119
RUSSELL C. PRATT, P.E.

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LEGEND:



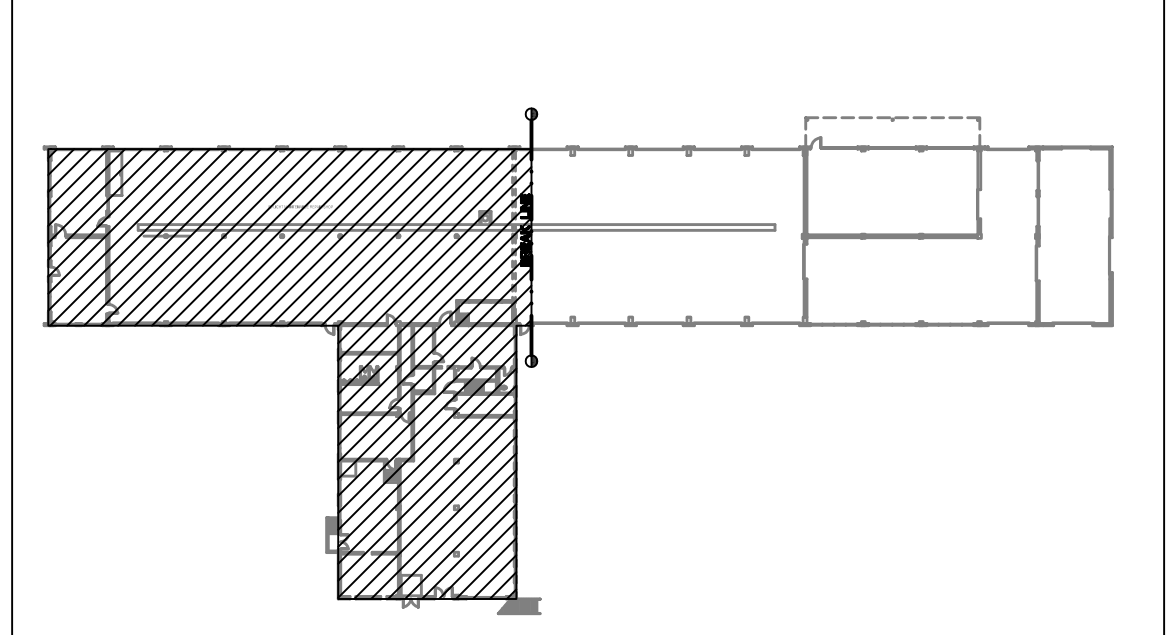
GENERAL NOTES:

- A. REFER TO THE MECHANICAL PLANS FOR EQUIPMENT AND DUCTWORK LOCATIONS BEFORE INSTALLING ANY PIPING. COORDINATE WITH THE MECHANICAL CONTRACTOR.
- B. PIPING PENETRATIONS THROUGH RATED ASSEMBLIES SHALL BE FIRE STOPPED IN ACCORDANCE WITH APPLICABLE CODE.
- C. CAREFULLY COORDINATE THE INSTALLATION OF COMPRESSED AIR PIPING LOCATED INSIDE WALLS OR ABOVE CEILINGS WITH OTHER TRADES PRIOR TO AND DURING CONSTRUCTION. COORDINATE PIPING ENTRY AND EXIT LOCATIONS WITH THE STRUCTURAL AND ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
- D. ALL CA BRANCH PIPING IS 3/4" UNLESS NOTED OTHERWISE.
- E. RE: P5.1 FOR ALL PLUMBING DETAILS THAT ARE NOT REFERENCED.

SHEET NOTES:

- 1. INSTALL COMPRESSED AIR RECEIVER FURNISHED WITH AIR COMPRESSOR C-1 AS SHOWN. INSTALL THE Y-STRAINER WITH BALL VALVE AND AUTOMATIC ELECTRIC TIMED CONDENSATE DRAIN VALVE FURNISHED WITH RECEIVER ON THE BOTTOM OF RECEIVER AND ROUTE THE DRAIN LINE TO A 5-GALLON BUCKET NEXT TO THE RECEIVER. RE: P51-9 FOR COMPRESSED AIR PIPING DETAIL FOR CONDENSATE DRAIN INSTALLATION.
- 2. INSTALL AIR COMPRESSOR AND REFRIGERATED AIR DRYER FURNISHED WITH AIR COMPRESSOR C-1 PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. ROUTE THE CONDENSATE LINE INDIRECT TO THE NEAREST APPROVED RECEPTOR. RE: P51-9 FOR COMPRESSED AIR PIPING DETAIL.
- 3. INSTALL RELOCATED COMPRESSED AIR RECEIVER WITH PRESSURE GAUGE AND AUTOMATIC ELECTRIC TIMED CONDENSATE DRAIN VALVE PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. RE: P51-9 FOR COMPRESSED AIR PIPING DETAIL.
- 4. 6" THICK HOUSEKEEPING PAD BY OTHERS. COORDINATE EXACT PAD DIMENSIONS WITH EQUIPMENT MOUNTING REQUIREMENTS PRIOR TO CONSTRUCTION. ALLOW 1/8" MIN BETWEEN ALL EQUIPMENT ON THE PAD AND TO NEAREST WALLS. RE: ARCHITECTURAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- 5. ROUTE COMPRESSED AIR LINE OFF BOTTOM OF MAIN AT LOW POINT TO ALLOW FOR CONDENSATE DRAINING.
- 6. ROUTE COMPRESSED AIR LINE DOWN TO SHUT-OFF VALVE FOR BLOW-DOWN. INSTALL BLOW-DOWN BELOW QUICK DISCONNECT. RE: P51-10 FOR COMPRESSED AIR DETAILS.
- 7. ROUTE 3/4" CA LINE DOWN TO EXISTING COMPRESSED AIR HOSE REEL. CONNECT AIR LINE TO REEL PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 8. ROUTE 2" CA LINE DOWN TO AIR COMPRESSOR EQUIPMENT WITH SHUT-OFF VALVE. RE: P51-10 FOR COMPRESSED AIR PIPING DETAIL.
- 9. CONNECT 3/4" CA TO FLUID DISTRIBUTION PUMP WITH A SHUTOFF VALVE AND FLEXIBLE CONNECTION PER MANUFACTURER'S INSTALLATION REQUIREMENTS.
- 10. ROUTE CA PIPING DOWN AGAINST WALL FROM HIGH CEILING TO LOW CEILING. CORE DRILL THROUGH WALL AND CONTINUE ROUTING AS SHOWN.
- 11. ROUTE 3/4" CA DOWN AGAINST WALL TO PRESSURE REGULATOR/FILTER AND QUICK DISCONNECT. COORDINATE THE EXACT TYPE, SIZE, AND NUMBER OF DISCONNECTS WITH THE OWNER PRIOR TO CONSTRUCTION. RE: P51-10 FOR COMPRESSED AIR DETAILS.
- 12. ROUTE 3/4" DOWN TO EXISTING VEHICLE LIFT. CONNECT CA PIPING TO LIFT PER THE MANUFACTURER'S INSTALLATION REQUIREMENTS. FIELD VERIFY THE EXACT LIFT CONNECTION LOCATION PRIOR TO CONSTRUCTION. RE: P51-10 FOR COMPRESSED AIR DETAILS.
- 13. INSTALL ALL BRANCH TAKE-OFFS FROM THE TOP OF THE MAIN CA LINE.
- 14. EXISTING COMPRESSED AIR HOSE REEL TO REMAIN.
- 15. ROUTE CA PIPING CLOSE TO ROOF STRUCTURE OR IN ROOF JOIST WEBBING. COORDINATE PIPE ROUTING WITH MECHANICAL EQUIPMENT AND DUCTWORK PRIOR TO CONSTRUCTION.

BUILDING KEY PLAN



1 COMPRESSED AIR PLAN AREA A
SCALE 1/8" = 1'-0"



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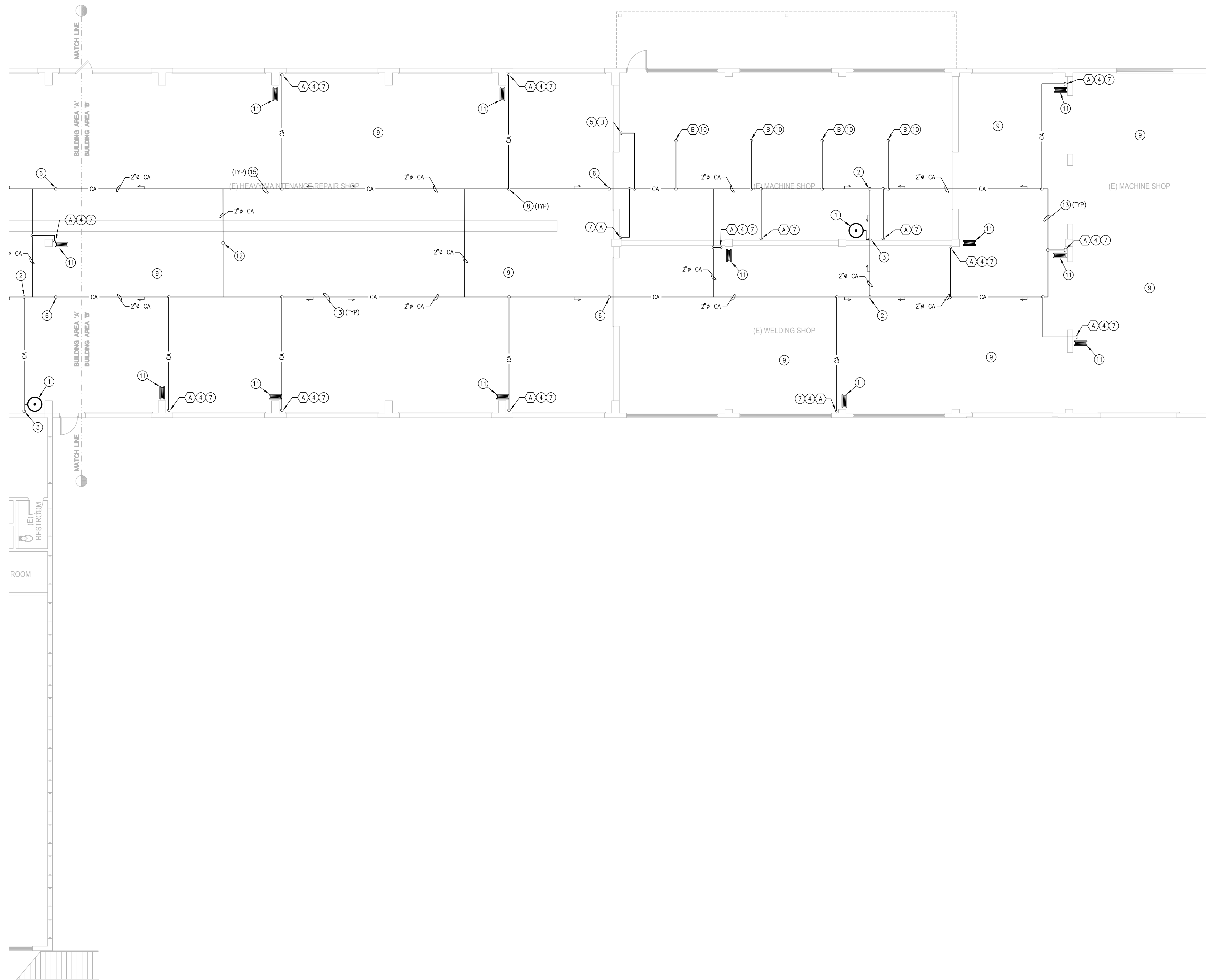
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KRA	RCF

REVISED

SHEET TITLE
COMPRESSED AIR PLAN AREA A

SHEET
P23A

ORIGINAL SHEET SIZE
30" x 42"



LEGEND:

- CA — COMPRESSED AIR
- PIPE ELBOW UP
- PIPE ELBOW DOWN
- ├ PIPE TEE BRANCH UP
- └ PIPE TEE BRANCH DOWN
- FLOW DIRECTION INDICATOR
- ↘ INDICATES DIRECTION OF DOWNWARD PITCH
- ⊘ BALL VALVE
- ⊘ COMPRESSED AIR OUTLET
- ⊘/⊙ FIXTURE OR EQUIPMENT TAG (RE: FIXTURE AND EQUIPMENT SCHEDULES AT P4.1)

GENERAL NOTES:

- A. REFER TO THE MECHANICAL PLANS FOR EQUIPMENT AND DUCTWORK LOCATIONS BEFORE INSTALLING ANY PIPING. COORDINATE WITH THE MECHANICAL CONTRACTOR.
- B. PIPING PENETRATIONS THROUGH RATED ASSEMBLIES SHALL BE FIRE STOPPED IN ACCORDANCE WITH APPLICABLE CODE.
- C. CAREFULLY COORDINATE THE INSTALLATION OF COMPRESSED AIR PIPING LOCATED INSIDE WALLS OR ABOVE CEILINGS WITH OTHER TRADES PRIOR TO AND DURING CONSTRUCTION. COORDINATE PIPING ENTRY AND EXIT LOCATIONS WITH THE STRUCTURAL AND ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
- D. ALL CA BRANCH PIPING IS 3/4" UNLESS NOTED OTHERWISE.
- E. RE: P5.1 FOR ALL PLUMBING DETAILS THAT ARE NOT REFERENCED.
- F. ROUTE CA PIPING ABOVE CRANES IN THE HEAVY MAINTENANCE, WELDING, AND MACHINE SHOPS.

SHEET NOTES:

1. INSTALL COMPRESSED AIR RECEIVER FURNISHED WITH AIR COMPRESSOR C-1 AS SHOWN. INSTALL THE Y-STRAINER WITH BALL VALVE AND AUTOMATIC ELECTRIC TIMED CONDENSATE DRAIN VALVE FURNISHED WITH RECEIVER ON THE BOTTOM OF RECEIVER AND ROUTE THE DRAIN LINE TO A 5-GALLON BUCKET NEXT TO THE RECEIVER. RE: P51-9 FOR COMPRESSED AIR PIPING DETAIL FOR CONDENSATE DRAIN INSTALLATION.
2. ROUTE COMPRESSED AIR LINE OFF BOTTOM OF MAIN AT LOW POINT TO ALLOW FOR CONDENSATE DRAINING.
3. PROVIDE FULL SIZE COMPRESSED AIR LINE DOWN TO SHOT-OFF VALVE FOR BLOW-DOWN. MOUNT AT 48" AFF.
4. ROUTE 3/4" CA LINE DOWN TO EXISTING COMPRESSED AIR HOSE REEL. CONNECT AIR LINE TO REEL PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
5. CONNECT 3/4" CA TO FLUID DISTRIBUTION PUMP WITH A SHUTOFF VALVE AND FLEXIBLE CONNECTION PER MANUFACTURER'S INSTALLATION REQUIREMENTS.
6. ROUTE CA PIPING DOWN AGAINST WALL FROM HIGH CEILING TO LOW CEILING. CORE DRILL THROUGH WALL AND CONTINUE ROUTING AS SHOWN.
7. ROUTE 3/4" CA DOWN AGAINST WALL TO PRESSURE REGULATOR/FILTER AND QUICK DISCONNECT. COORDINATE THE EXACT TYPE, SIZE, AND NUMBER OF DISCONNECTS WITH THE OWNER PRIOR TO CONSTRUCTION. RE: P51-10 FOR COMPRESSED AIR DETAILS.
8. INSTALL ALL BRANCH TAKE-OFFS FROM THE TOP OF THE MAIN CA LINE.
9. COORDINATE THE INSTALLATION OF ALL CA PIPING IN THIS AREA WITH THE EXISTING CRANE AND RELATED COMPONENTS PRIOR TO CONSTRUCTION. THE CA PIPING CANNOT INTERFERE WITH THE CRANE OPERATION.
10. ROUTE 3/4" CA DOWN FROM CEILING TO HOSE WITH QUICK DISCONNECT. COORDINATE THE EXACT DISCONNECT TYPE, SIZE, HOSE REQUIREMENTS, AND DISCONNECT MOUNTING HEIGHT WITH THE OWNER PRIOR TO CONSTRUCTION. RE: P51-10 FOR COMPRESSED AIR DETAILS.
11. EXISTING COMPRESSED AIR HOSE REEL TO REMAIN.
12. INSTALL PRESSURE TRANSDUCER FURNISHED WITH AIR COMPRESSOR AND CONNECT TO COMPRESSOR. ADJUST THE AIR COMPRESSOR AND RELATED SYSTEM COMPONENTS TO MAINTAIN A SYSTEM PRESSURE OF 135 PSIG.
13. ROUTE CA PIPING CLOSE TO ROOF STRUCTURE OR IN ROOF JOIST WEBBING. COORDINATE PIPE ROUTING WITH MECHANICAL EQUIPMENT AND DUCTWORK PRIOR TO CONSTRUCTION.

BUILDING KEY PLAN

COMPRESSED AIR PLAN AREA B

P23B

ORIGINAL SHEET SIZE 30" x 42"

1 COMPRESSED AIR PLAN AREA B
SCALE 1/8" = 1'-0"

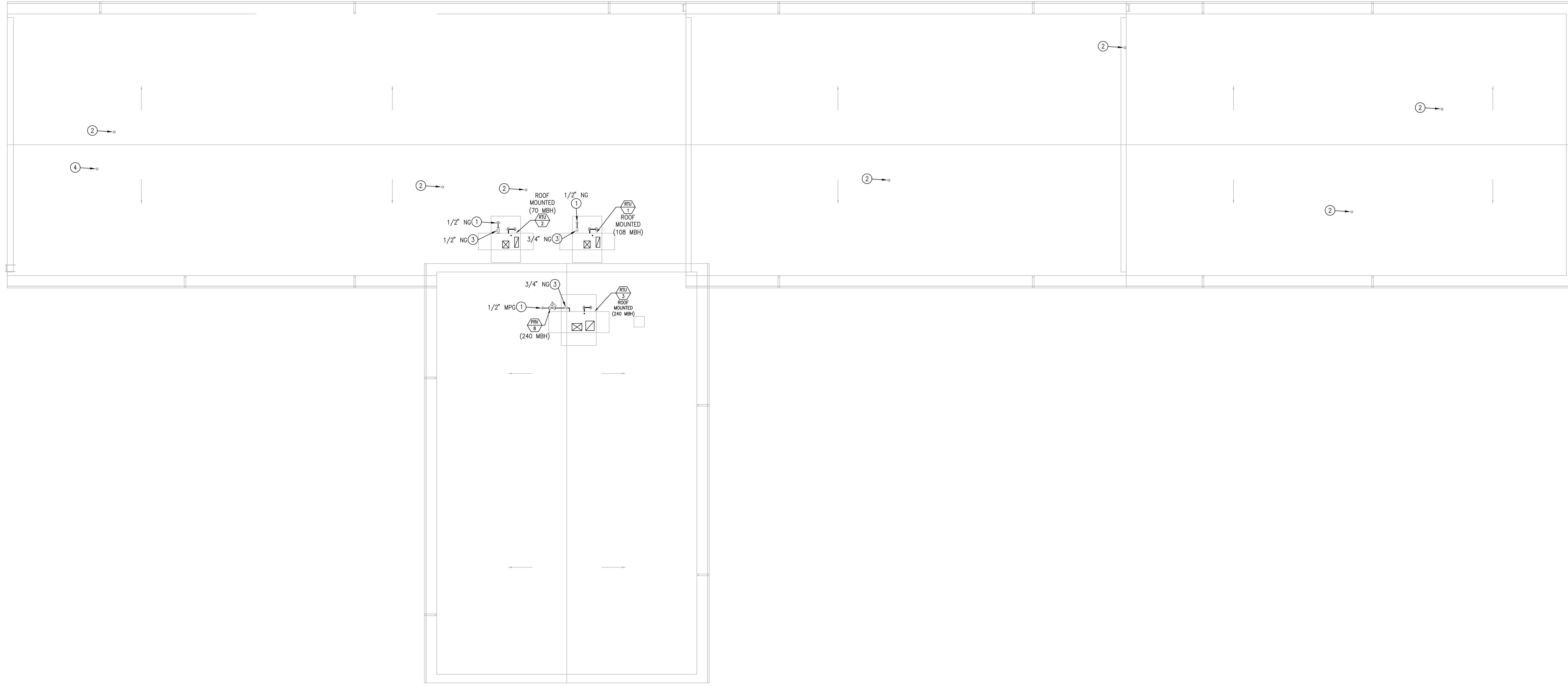
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1 PLUMBING ROOF PLAN
SCALE 3/32" = 1'-0"

LEGEND:			
NEW	EXISTING	TO BE DEMOLISHED	
—	—	▨	DOMESTIC COLD WATER
—	—	▨	DOMESTIC HOT WATER
—	—	▨	DOMESTIC HOT WATER RETURN
—	—	▨	PLUMBING EQUIPMENT
—	—	▨	PLUMBING EQUIPMENT ON ROOF
—NG—	—NG—	▨	NATURAL GAS
—MPC—	—MPC—	▨	MEDIUM PRESSURE GAS
—CD—	—CD—	▨	CONDENSATE DRAIN
—CA—	—CA—	▨	CONDENSATE DRAIN
—SS—	—SS—	▨	SANITARY SEWER (BELOW GRADE)
—	—	▨	SANITARY VENT
			FIXTURE OR EQUIPMENT TAG (RE: FIXTURE AND EQUIPMENT SCHEDULES)

- GENERAL NOTES:**
- PRIOR TO INSTALLING ANY PIPING, VERIFY EXISTING CONDITIONS AND INVERTS. NOTIFY GC/ARCHITECT OF ANY CONDITIONS THAT WILL NOT ALLOW FOR INVERTS NOTED.
 - SLOPE ALL DRAINAGE PIPING AS FOLLOWS:
 - SANITARY SEWER BRANCH PIPING AT 1/4" PER FOOT.
 - INDIRECT WASTE PIPING AT 1/4" PER FOOT.
 - PROVIDE INDIRECT WASTE PIPING TO RECEPTORS FROM ALL EQUIPMENT AS REQUIRED. REFER TO FIXTURE SCHEDULES FOR FURTHER INFORMATION. PIPING SHALL BE TYPE DWV OR TYPE M COPPER INSTALLED A MINIMUM OF 1/2" OFF ADJACENT FLOOR AND WALL SURFACES.
 - COORDINATE ALL FURRING REQUIREMENTS AND WALL THICKNESS WITH REGARD TO PIPE AND WALL CLEANOUT INSTALLATIONS.
 - COORDINATE ACCESS PANEL LOCATIONS WITH INTERIOR ELEVATIONS TO AVOID CONFLICTS WITH EQUIPMENT, GRAB BARS OR DECORATIVE ELEMENTS.
 - RECORD DRAWINGS USED FOR DESIGN MAY NOT REFLECT CURRENT LAYOUT OF STORE. PLUMBING CONTRACTOR SHALL FIELD VERIFY ALL EXISTING PIPING AND FIXTURE LOCATIONS PRIOR TO START OF WORK.
 - DEMOLISHED FIXTURES/EQUIPMENT SHALL BE REMOVED FROM THE BUILDING AND DISPOSED OF PROPERLY.
 - WASTE, VENT AND WATER PIPING FROM DEMOLISHED FIXTURES/EQUIPMENT SHALL BE CAPPED AT MAIN ABOVE CEILING, BELOW FLOOR AND AT WALL AS REQUIRED. ALL ABANDONED PIPING SHALL BE REMOVED FROM THE BUILDING AND DISPOSED OF PROPERLY. PATCH FLOOR AND WALLS AS REQUIRED.
 - PLUMBER SHALL COORDINATE REMOVAL OF FIXTURES/EQUIPMENT/PIPING WITH ALL OTHER DISCIPLINES.

- # SHEET NOTES:**
- ROUTE (N) PIPING UP THROUGH ROOF. SEE SHEETS P21A, P21B OR P22.
 - ROUTE NEW 1" VENT FROM GAS PRESSURE REGULATOR UP THROUGH ROOF. LOCATE NEW VENT MINIMUM 10'-0" FROM ALL AIR INTAKES. VERIFY AND MAKE ADJUSTMENT TO VTR LOCATIONS IN FIELD PRIOR TO START OF WORK.
 - MAKE CONNECTION TO EQUIPMENT WITH CSA LISTED SHUT-OFF VALVE, FLEXIBLE CONNECTOR, UNION AND 6" DIRT LEG.
 - NEW 2" SANITARY VENT THROUGH ROOF. VERIFY LOCATION OF EXISTING ROOFTOP EQUIPMENT AND LOCATE NEW VENT MINIMUM 10'-0" FROM ALL EXISTING AIR INTAKES. VERIFY AND MAKE ADJUSTMENT TO VTR LOCATIONS IN FIELD PRIOR TO START OF WORK.



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SHEET TITLE
PLUMBING ROOF PLAN

SHEET
P24

ORIGINAL SHEET SIZE
30" x 42"



AIR COMPRESSOR SCHEDULE

REFERENCE				PERFORMANCE					RECEIVER	AIR COMPRESSOR DIMENSIONS			ELECTRICAL					
MARK	BASIS OF DESIGN			TYPE	LOCATION	COMP. ACFM AT 135 PSIG RANGE MIN-MAX	MOTOR HP	SOUND LEVEL dBA	VOLUME GAL EACH	LENGTH IN	WIDTH IN	HEIGHT IN	VOLTS	PHASE	MCA	MOCP	WEIGHT LBS	REMARKS
	ITEM	MFR	MODEL															
C-1	AIR COMPRESSOR	ROGERS	KIV-30-125	ROTARY SCREW, ADJUSTABLE SPEED	NEW MECH ROOM	45-92	30	73	240	46	37	60	460	3	51	80	1,800	1, 2, 3
TYPICAL REQUIREMENTS:					REMARKS:													
A. RE: DIVISION 22 SPECIFICATIONS FOR FURTHER REQUIREMENTS.					1. FURNISH VARIABLE SPEED LUBRICANT-INJECTED AIR COMPRESSOR WITH LOAD/NO LOAD CONTORRS, LUBRICANT-FLOODED ROTARY SCREW COMPRESSOR, HIGH EFFICIENCY ROTOR PRIFILE, AIR-COOLED LUBRICANT COOLER WITH AUTOMATIC TEMPERAUTRE CONTROL, TRIPPLE LIP SHAFT SEAL, V-BELT DRIVE, MULTI-STAGE HIGH EFFICIENCY AIR-LUBRICANT SEPARATION SYSTEM, SPIN-ON TYPE LUBRICANT FILTER, INLET AIR FILTER/SILENCER, ASME PRESSURE RELIEF VLAVE, MINIMUM PRESSURE DISCHARGE AIR CHECK VAVLE, LUBRICANT LEVEL SIGHT GLASS, HIGH TEMPERATURE SHUTDOWN SWITCH, UL LISTED CONTROL PANEL AND INSTRUMENTATION, MICROPROCESSOR-BASED CONTROL COMPLETE WITH LCD DISPLAY, REMOTE START CAPABILITY, MULTIPLE-COMPRESSOR CONTROL SEQUENCING CAPABILITY, E-STOP BUTTON FOR IMMEDIATE MANUAL SAFETY SHUTDOWN OF COMPRESSOR, PRESSURE TRANSDUCER SHIPPED LOOSE FOR FIELD INSTALLATION, AIR-COOLED AFTERCOOLER, WYE-DELTA REDUCED VOLTAGE MOTOR STARTER, AND STEP UP TRANSFORMER MODEL V13097.2. 2. FURNISH COMPRESSOR WITH TWO (2) VERTICAL, 30" DIAMETER 84" TALL, ASME RECEIVERS CODED FOR 200 PSIG COMPLETE WITH EXTERIOR PRIMER, SAFETY RELIEF VALVES MODEL 95404 SET TO 200 PSIG, 0-200 PSIG 2-1/2" DIAMETER PRESSURE GAUGES, 1/4" MANUAL BALL VALVE DRAINS MEDEL 70-101-01, Y STRAINERS FOR DRAIN MODEL BPS-5025, AND AUTOMATIC ELECTRIC TIMED POSI-DRAINS MODEL PD7020. 3. PROVIDE ZEK'S MODEL 100HSH CYCLING AIR DRYER WITH AUTOMATIC TEMPERATURE CONTROL, STAINLESS STEEL HEAT EXCHANGER, ONE (1) 3/4 HP 115 VOLT / 1-PHASE MOTOR 0.98 KW 15.44 AMPS MCA 20 AMPS MOCP, REFRIGERANT SUCTION PRESSURE GAUGE, AUTOMATIC TIMED SOLENOID DRAIN, AND 1" MPT INLET AND OUTLET CONNECTIONS.													

WATER HEATER SCHEDULE

REFERENCE				PERFORMANCE					ELECTRICAL		CONNECTIONS								
MARK	ITEM	MFR	MODEL	TYPE	LOCATION	DETAIL REFERENCE	FUEL TYPE	STORAGE GAL	INPUT MBH (WATTS)	EFF %	RECOVERY GPH	TEMP RISE °F	VOLTAGE	PHASE	MCA	CW IN	HW IN	OP. WEIGHT LBS	REMARKS
WH-1	WATER HEATER	A.O. SMITH	DEL-66	ELECTRIC STORAGE	JANITOR 109	12/P5.1	ELEC.	66	(4,500)	-	36	100	208	3	13.1	3/4	3/4	450	1, 2, 3
TYPICAL REQUIREMENTS:				REMARKS:															
A. RE: DIVISION 22 SPECIFICATIONS FOR FURTHER REQUIREMENTS.				1. SET OPERATING TEMPERATURE AT 140°F. 2. INSTALL WITH HEAT TRAPS AT CW AND HW CONNECTIONS. 3. FURNISH WITH CONCENTRIC [ROOF][WALL] VENT KIT[AND CONDENSATE NEUTRALIZATION KIT]. 4. PROVIDE WITH INSTANT FLOW TEMPERATURE CONTROL, STAINLESS STEEL HEATING COIL, AND FLOW SWITCH TO ACTIVATE HEATER AT 0.5 GPM. 5. FURNISH WATER HEATER WITH ASME RATED CONSTRUCTION.															

NATURAL GAS PRESSURE REGULATOR SCHEDULE

REFERENCE	MARK	MFR	MODEL	SERVICE	REMARKS
PRV-1	FISHER	SC400 SERIES		RH-3, RH-4	1, 3
PRV-2	FISHER	SC400 SERIES		RH-2, RH-5, RH-6	1, 3
PRV-3	FISHER	SC400 SERIES		RH-1	1, 3
PRV-4	FISHER	SC400 SERIES		MAU-2	2, 3
PRV-5	FISHER	SC400 SERIES		UH-1, UH-2	1, 3
PRV-6	FISHER	SC400 SERIES		MAU-1	2, 3
PRV-7	FISHER	SC400 SERIES		RTU-1, RTU-2	1, 3
PRV-8	FISHER	SC400 SERIES		RTU-3	1, 3
TYPICAL REQUIREMENTS:					
A. RE: DIVISION 22 SPECIFICATIONS FOR FURTHER REQUIREMENTS.					
REMARKS:					
1. THE DELIVERY PRESSURE ENTERING THE PRESSURE REGULATOR (UPSTREAM IS 2 PSI AND THE DISCHARGE PRESSURE (DOWNSTREAM IS 7 N WC. 2. THE DELIVERY PRESSURE ENTERING THE PRESSURE REGULATOR (UPSTREAM IS 2 PSI AND THE DISCHARGE PRESSURE (DOWNSTREAM IS 8 N WC. 3. PROVIDE APPROPRIATE SPRING AND ORIFICE TO DELIVER NATURAL GAS DEMAND AS SCHEDULED					

EXPANSION TANK SCHEDULE

REFERENCE				PERFORMANCE						
MARK	MFR	MODEL	SERVICE	LOCATION	DETAIL REFERENCE	TYPE	TANK VOL GALLONS	ACCEP. FACTOR	WEIGHT POUNDS	REMARKS
ET-1	AMTROL	ST-12	DOMESTIC HOT WATER	JANITOR 109	12/P51	DIAPHRAGM	4.4	0.73	36	1, 2
TYPICAL REQUIREMENTS:				REMARKS:						
A. RE: DIVISION 22 SPECIFICATIONS FOR FURTHER REQUIREMENTS.				1. PROVIDE UNIS/TRUT BRACKET SECURED TO WALL WITH STRAP AROUND TANK. 2. PROVIDE ISOLATION VALVE (LESS HANDLE OR LOCK-SHIELD).						

PLUMBING FIXTURE SCHEDULE

FIXTURE				TRIM			CONNECTIONS, IN				REMARKS
MARK	ITEM	MFR	MODEL	ITEM	MFR	MODEL	CW	HW	W	V	
FD-1	FLOOR DRAIN (ROUND)	J.R. SMITH	2005YA[P050][U]	-	-	-	-	-	2	1-1/2	CAST IRON BODY WITH ADJUSTABLE STRAINER HEAD. FURNISH WITH ROUND TOP, VANDAL PROOF SCREWS, AND 1/2" CW TRAP PRIMER CONNECTION.
HD-1	4 X 2 HUB DRAIN			-	-	-	-	-	2	2	
LAV-1	ADA LAVATORY (SQUARE WALL-MTD)	ZURN	Z5344	FAUCET	ZURN	Z81000-XL-3M	1/2	1/2	2	1-1/2	WALL-MOUNTED VITREOUS CHINA LAVATORY WITH FLOOR MOUNTED SUPPORTS. FURNISH WITH DECK MOUNTED CHROME PLATED FAUCET 4" CENTERS. LEVER HANDLE WITH VANDAL RESISTANT SCREWS, AND VANDAL RESISTANT 5 GPM AERATOR. INSULATE CW, HW, AND SS LINES FOR ADA COMPLIANCE. ADA COMPLIANT (BARRIER-FREE). PROVIDE MIXING VALVE MV-1 FOR HW INLET AND SET TO 105°F.
MV-1	MIXING VALVE (LAVATORIES, HAND SINKS)	WATTS	LFUSG-B	-	-	-	3/8	3/8	-	-	INSTALL VALVE UNDER FIXTURE AND SIZE ACCORDING TO FIXTURE WATER SUPPLY. SET FOR 105°F.
SK-1	SINK (COUNTER-MTD)	ELKAY	LR2219	FAUCET	ZURN	Z871C1-VL	1/2	1/2	2	1-1/2	COUNTER MOUNTED, 18 GAUGE TYPE 304 STAINLESS STEEL SINGLE BOWL SINK WITH SELF-RIMMING EDGE, STRAINER, AND TWO (2) HOLES 4" OC. INSIDE BOWL DIMENSIONS : 18" L, 14" W, 7-1/2" D. FURNISH WITH ADA COMPLIANT DECK-MOUNTED GOOSENECK FAUCET WITH LEVER HANDLES AND 2.2 GPM AERATOR.
SS-1	SERVICE SINK (SQUARE, CORNER-MTD)	FIAT	TSB-100	FAUCET	ZURN	Z842M1	1/2	1/2	3	2	FLOOR MOUNTED PRECAST TERRAZZO SERVICE SINK. FURNISH WITH E-77-AA BUMPER GUARD, STRAINER, 889-CC MOP BRACKET, 832-AA HOSE & BRACKET, WALL MOUNTED POLISHED CHROME FAUCET WITH TOP BRACE, STOPS, VACUUM BREAKER, 3/4" THREADED HOSE OUTLET, AND PAIL HOOK WITH WALL SUPPORT.
TP-1	TRAP PRIMER (AUTO-PNEUMATIC)	PPP	[P1-500][P2-500]	-	-	-	1/2	-	-	-	INSTALL TRAP PRIMER IN WALL IN AN ACCESSIBLE LOCATION. WITH A LOCKABLE STAINLESS STEEL ACCESS COVER.
WB-1	WATER BOX (ICE MAKER)	GUY GRAY	MIB1AB	-	-	-	1/2	-	-	-	STEEL ICEMAKER BOX WITH WHITE POWDER COAT FINISH AND ONE QUARTER-TURN VALVE. MOUNT FIXTURE FLUSH TO WALL AT 48" AFF TO TOP OF BOX
WC-1	ADA WATER CLOSET (FLOOR-MTD)	ZURN	Z5665-BWL1	FLUSH VALVE TRAP PRIMER	SLOAN SLOAN	ROYAL-111-1.28 VBF-72-A1	1	-	3	2	VITREOUS CHINA, FLOOR MOUNTED, ADA WATER CLOSET WITH SIPHON-JET ACTION. FURNISH WITH 1.28 GPF MANUALLY OPERATED FLUSH VALVE ON OPEN SIDE, TRAP PRIMER DIVERTER, AND CHURCH SEAT NO. 9500CT. ADA COMPLIANT (BARRIER FREE).
TYPICAL REQUIREMENTS:				REMARKS:							
A. RE: DIVISION 22 SPECIFICATIONS FOR FURTHER REQUIREMENTS.				1. PROVIDE BRACKETS, SUPPORTS, AND PIPING REDUCERS AS NECESSARY.							
B. RE: ARCHITECTURAL DRAWINGS FOR ADA ACCESSIBLE FIXTURE APPLICABILITY, BARRIER CLEARANCE, AND MOUNTING HEIGHT.				2. FURNISH WITH QUARTER-TURN BALL VALVES AND STRAINER ON INLET.							
C. TRENCH DRAIN LENGTHS LISTED INCLUDE CATCH BASIN AND ARE NOMINAL ONLY. CONTRACTOR SHALL COORDINATE EXACT LENGTH REQUIRED WITH GENERAL CONTRACTOR.											

BACKFLOW PREVENTER SCHEDULE

REFERENCE				CONNECTIONS		PERFORMANCE					
MARK	ITEM	MFR	MODEL	TYPE	SERVICE	WATER IN	WASTE IN	FLOW RATE GPM	PRES. DROP PSI	REMARKS	
BP-1	BACKFLOW PREVENTER	WATTS	LF007M1QT-S	DOUBLE CHECK	BUILDING SUPPLY	2	-	55	6	1, 2	
TYPICAL REQUIREMENTS:				REMARKS:							
A. RE: DIVISION 22 SPECIFICATIONS FOR FURTHER REQUIREMENTS.				1. PROVIDE BRACKETS, SUPPORTS, AND PIPING REDUCERS AS NECESSARY. 2. FURNISH WITH QUARTER-TURN BALL VALVES AND STRAINER ON INLET.							



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 5800 COFFEY STREET
 GARDEN CITY, ID

FOR CONSTRUCTION
 6/25/18

PROJECT 18059.00 DATE 5-2-18
 DRAWN XXXX CHECKED XXXX
 REVISED 05-15-18

PROFESSIONAL ENGINEER

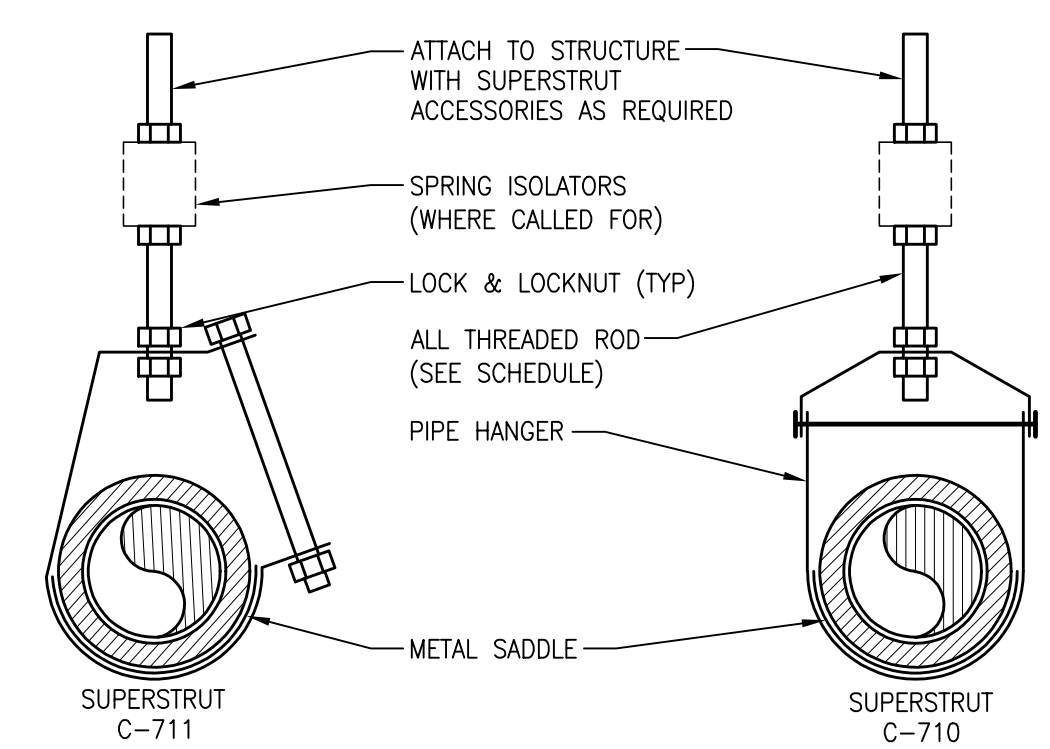
SHEET TITLE

PLUMBING SCHEDULES

SHEET

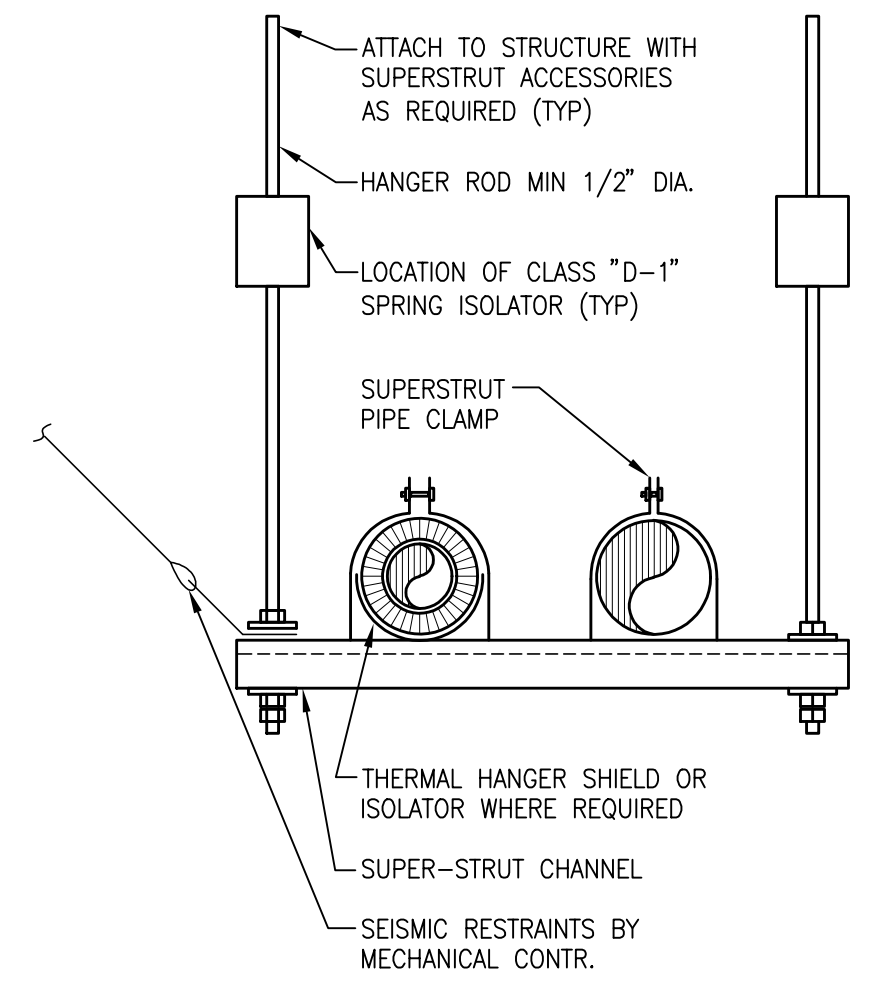
P41

ORIGINAL SHEET SIZE 30" x 42"

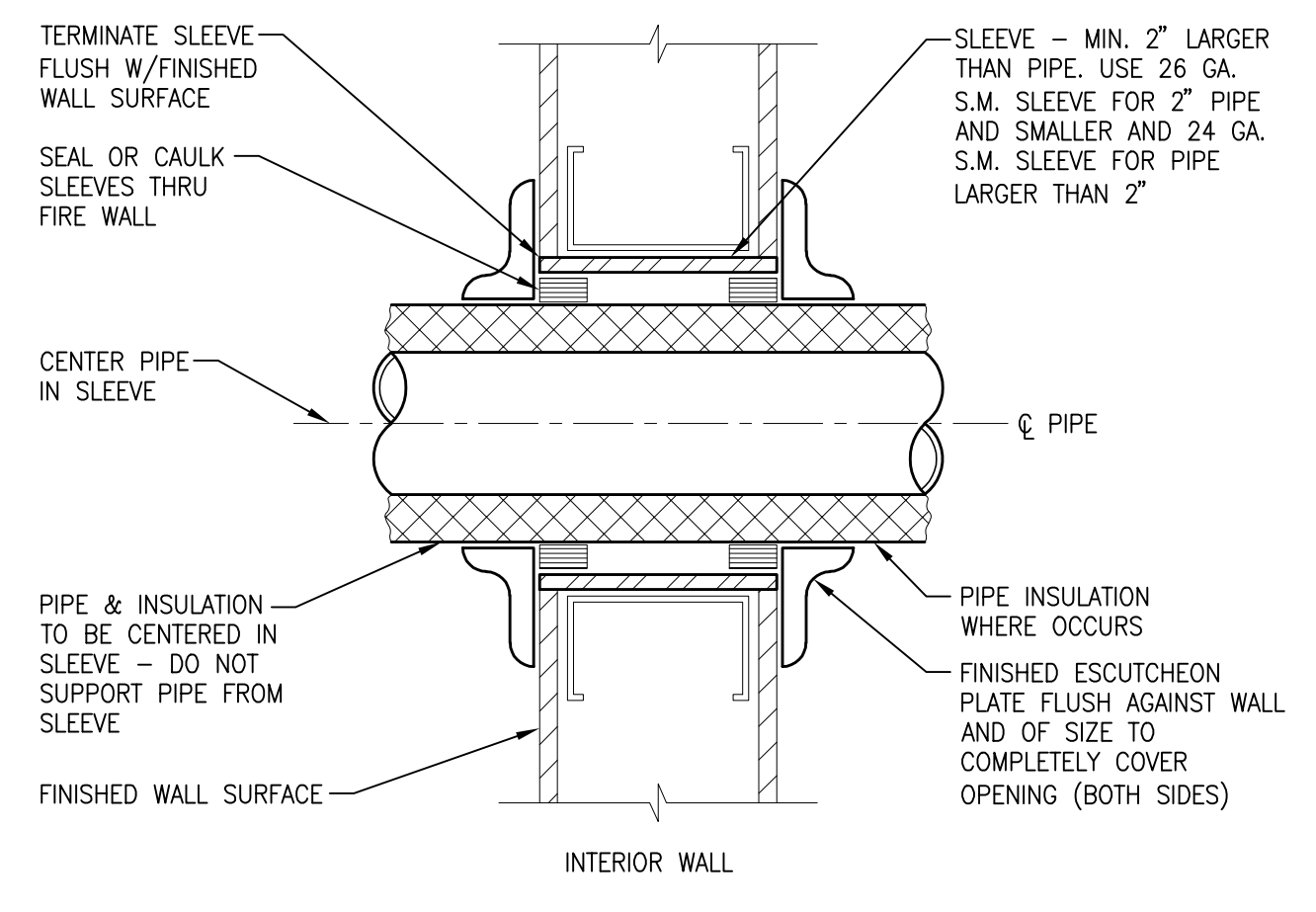


PIPE TYPE	MAX. HORIZONTAL HANGER SPACING	THREADED ROD SIZE
ABS PIPE	4 FT	1/2 IN
CAST IRON PIPE	5 FT	5/8 IN
CPVC 1 IN AND SMALLER	3 FT	1/2 IN
CPVC 1-1/4 IN AND LARGER	4 FT	1/2 IN
COPPER PIPE	12 FT	3/8 IN
COPPER TUBE 1-1/4 IN AND SMALLER	6 FT	3/8 IN
COPPER TUBE 1-1/2 IN AND LARGER	10 FT	1/2 IN
STEEL PIPE	12 FT	5/8 IN
PEX PIPE	32 IN	3/8 IN
PVC PIPE	4 FT	1/2 IN
POLYPROPYLENE 1 IN AND SMALLER	32 IN	1/2 IN
POLYPROPYLENE 1-1/4 IN AND LARGER	4 FT	1/2 IN

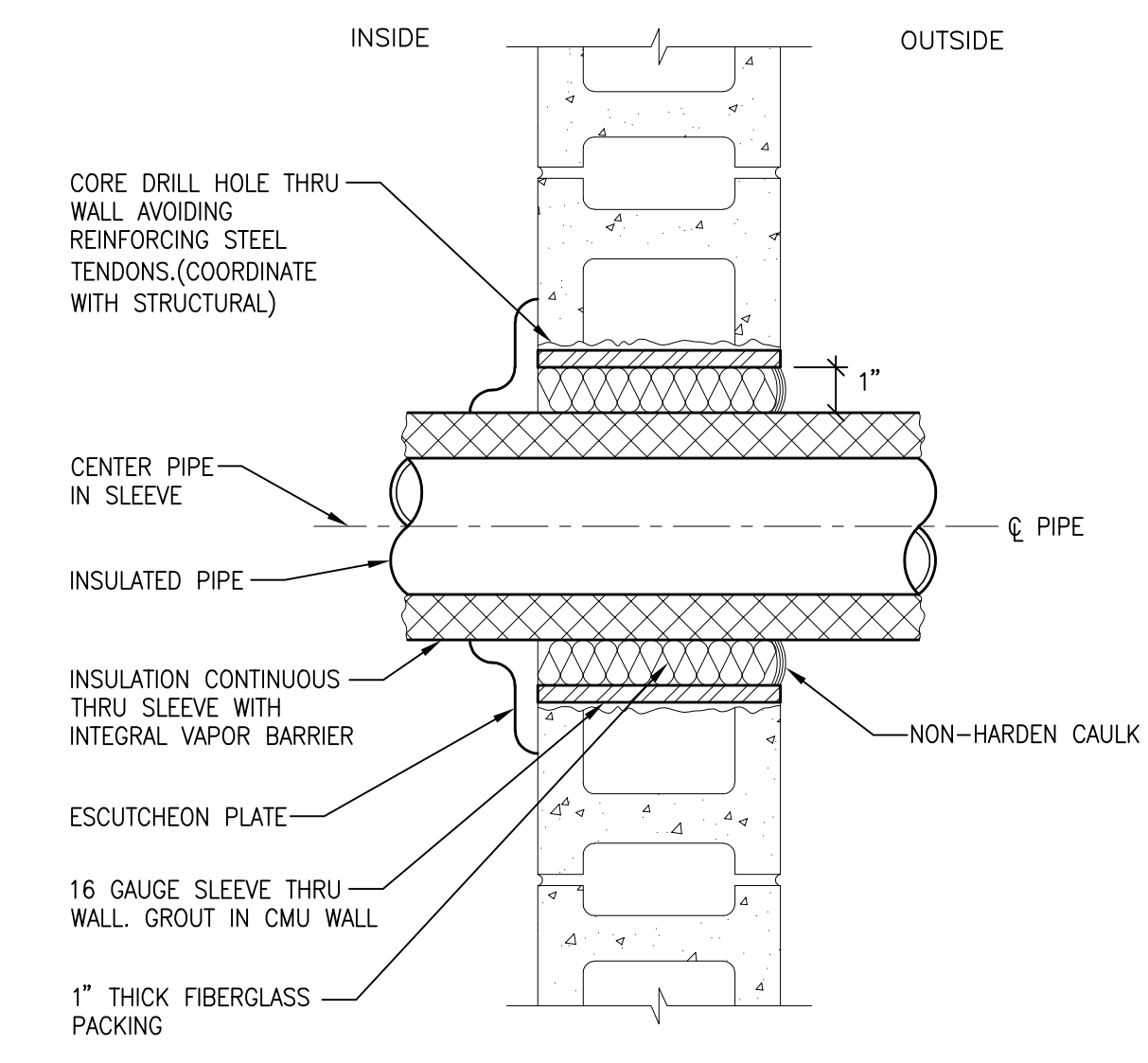
1 SINGLE PIPE SUPPORT DETAIL
SCALE: NTS



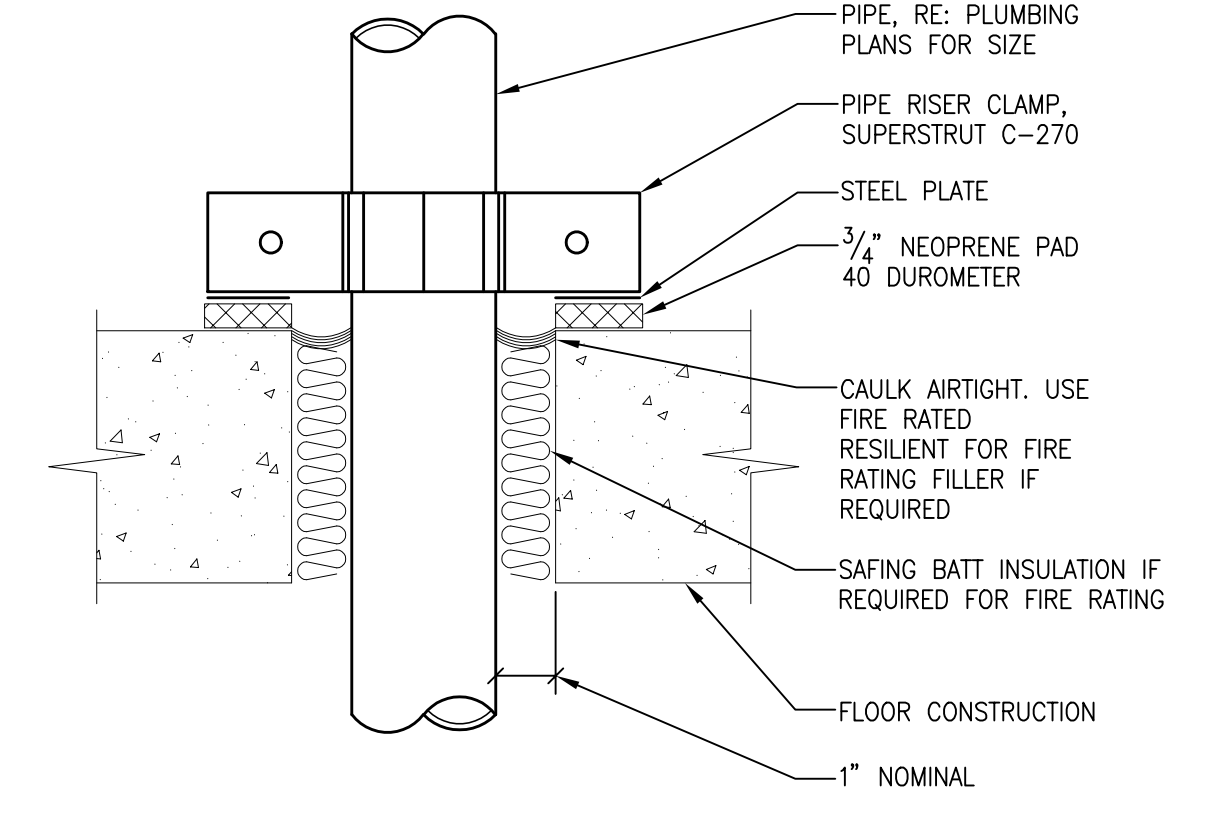
2 TRAPEZE SPRING HANGER DETAIL
SCALE: NTS



3 PIPE THRU FRAMED WALL DETAIL
SCALE: NTS

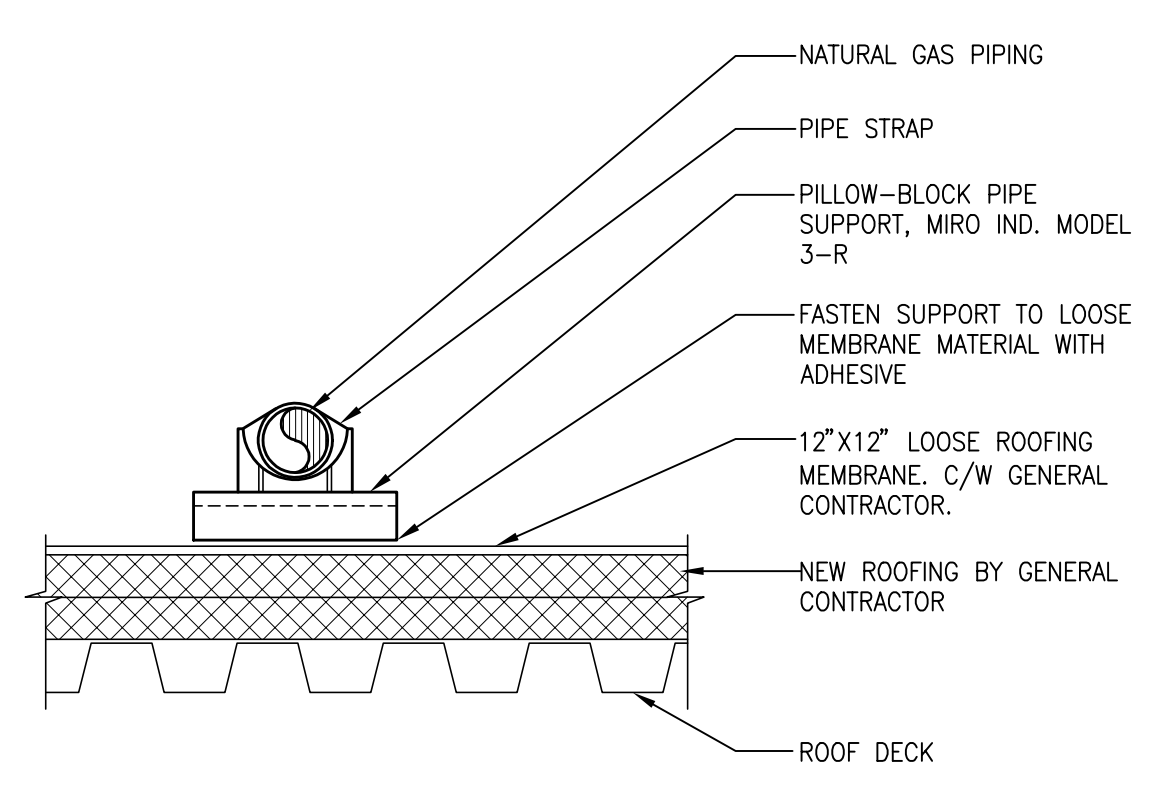


4 PIPE PENETRATION THRU CMU WALL DETAIL
SCALE: NTS

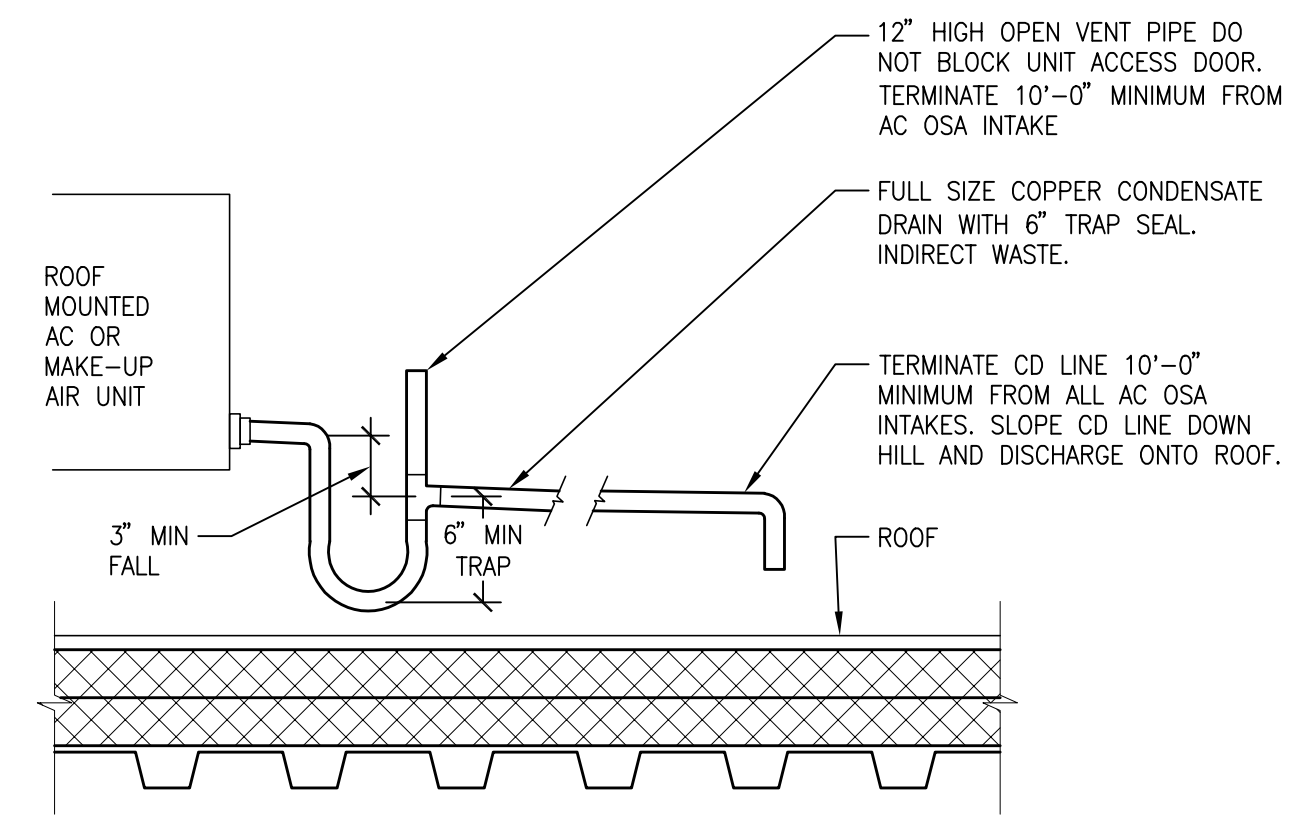


5 PIPE ISOLATION AT FLOOR PENETRATION DETAIL
SCALE: NTS

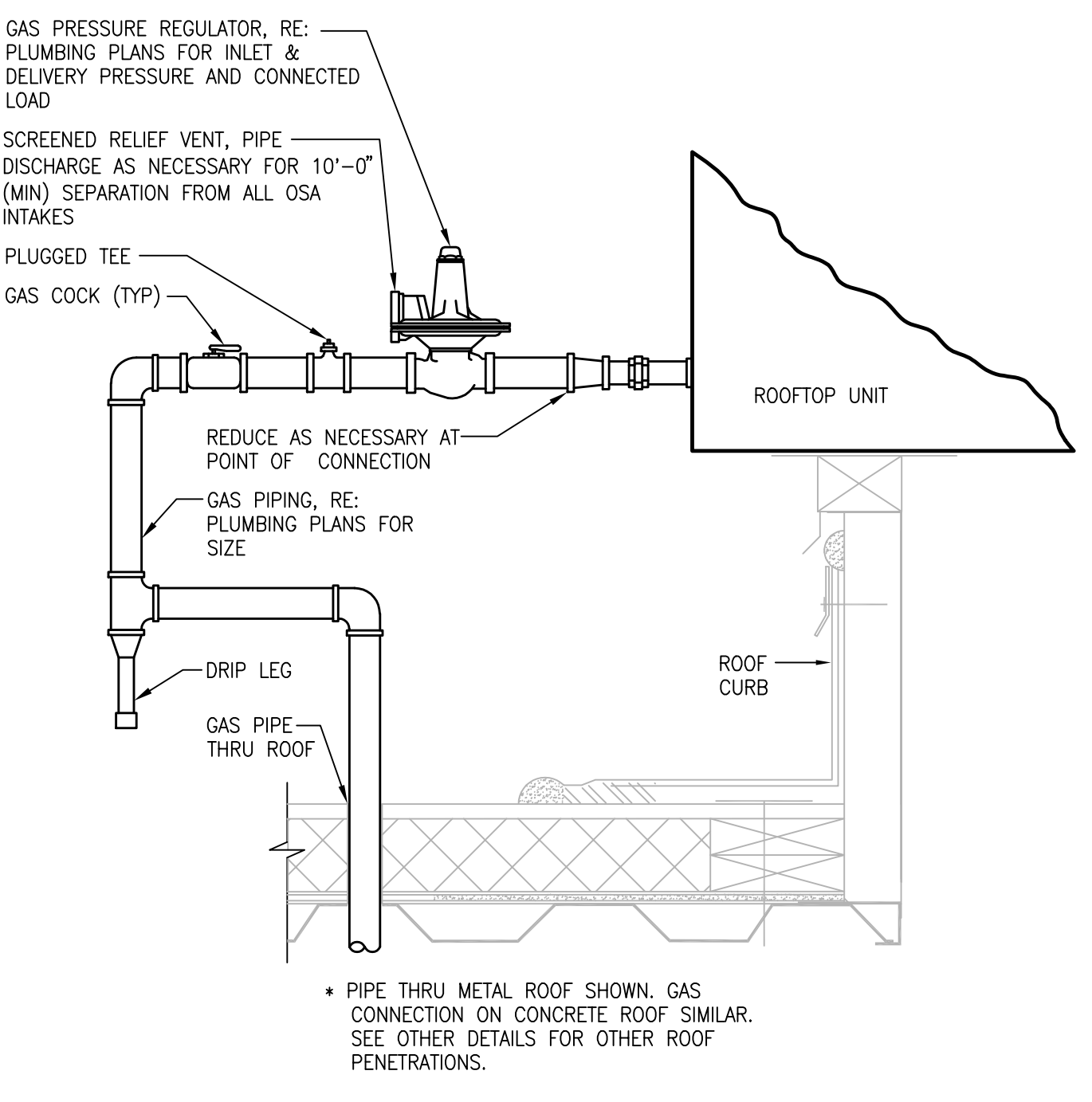
NOTE: IF PIPE IS SUSPENDED FROM OR DIRECTLY ATTACHED TO STRUCTURE OR OTHER BUILDING ELEMENTS, USE 1/2" THICK, 40-DUROMETER NEOPRENE AS SLEEVE BETWEEN PIPE AND PIPE COLLAR.



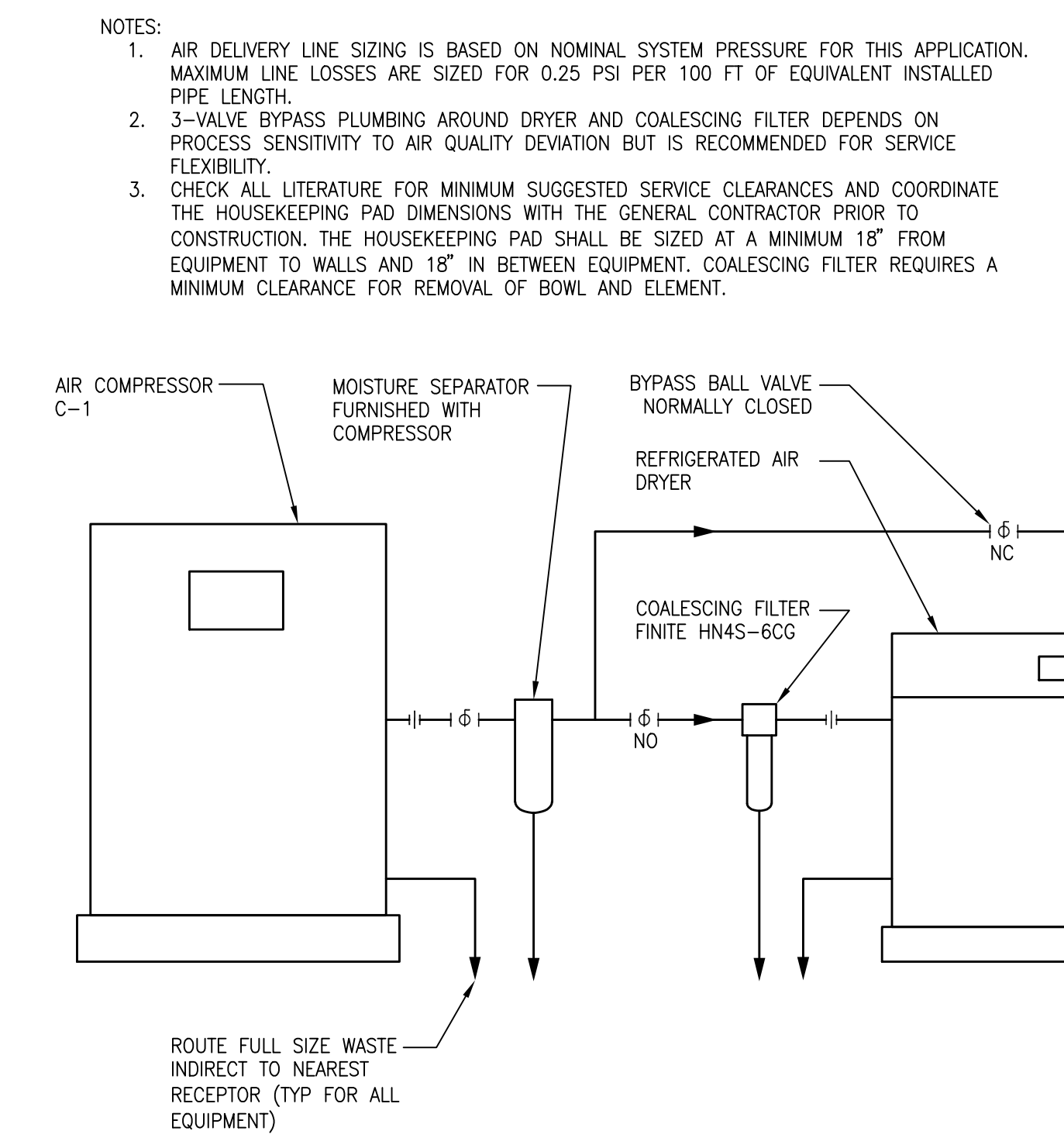
6 PIPE SUPPORT ON ROOF DETAIL
SCALE: NTS



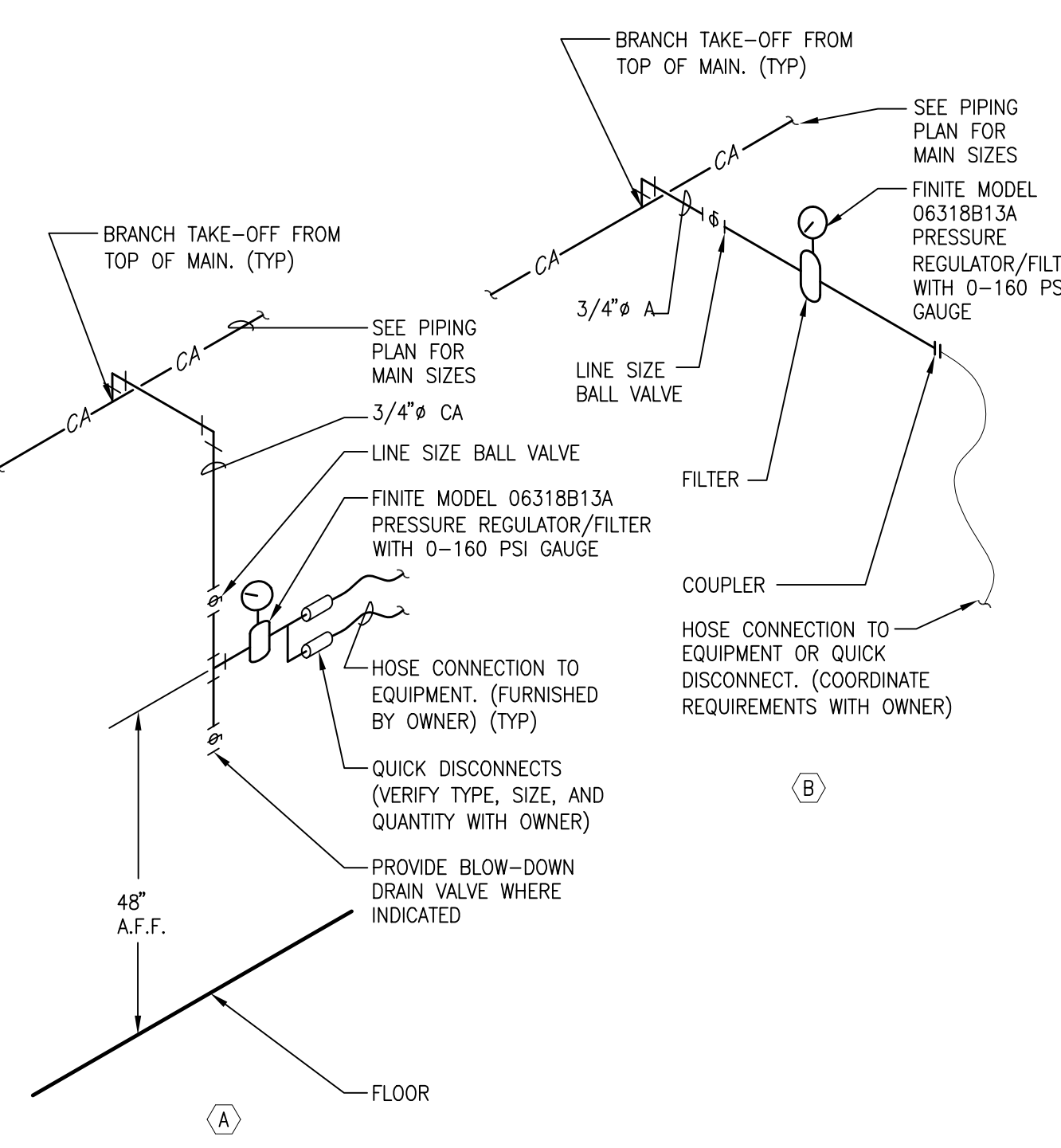
7 AC UNIT CONDENSATE DRAIN DETAIL
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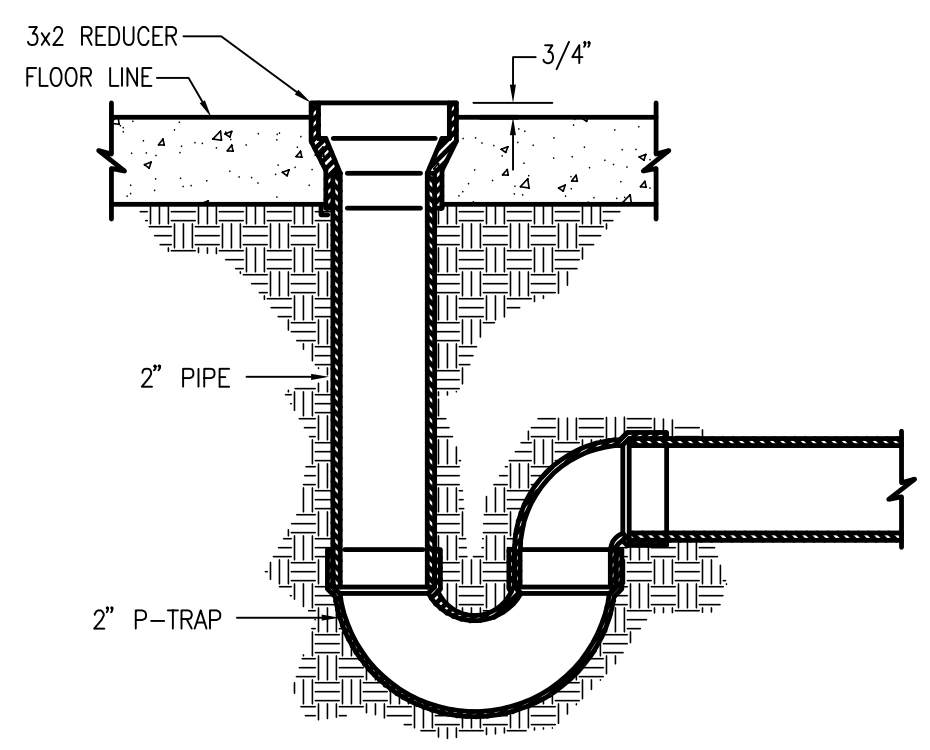
8 GAS TO UNIT CONNECTION DETAIL
SCALE: NTS



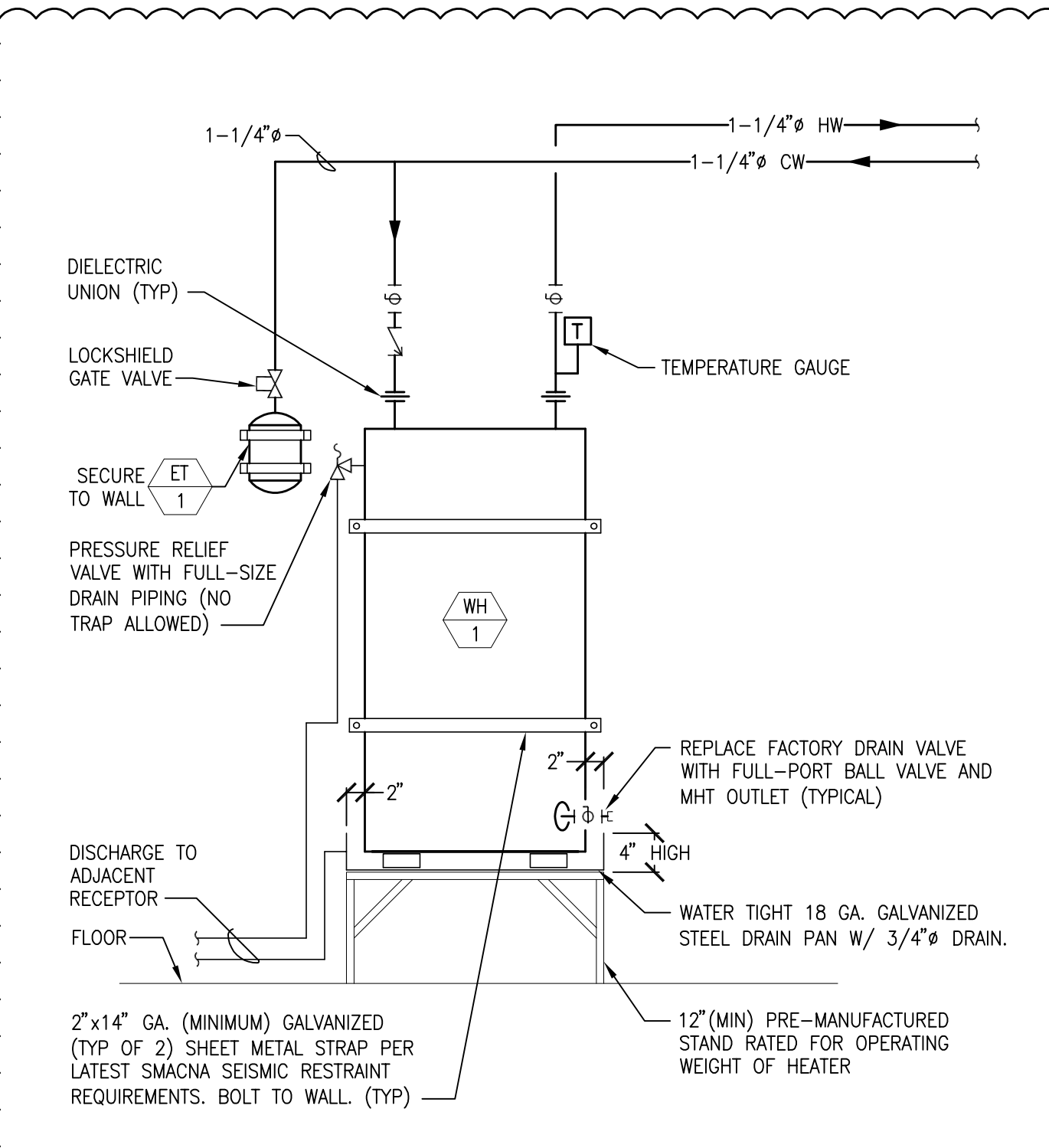
9 AIR COMPRESSOR DETAIL
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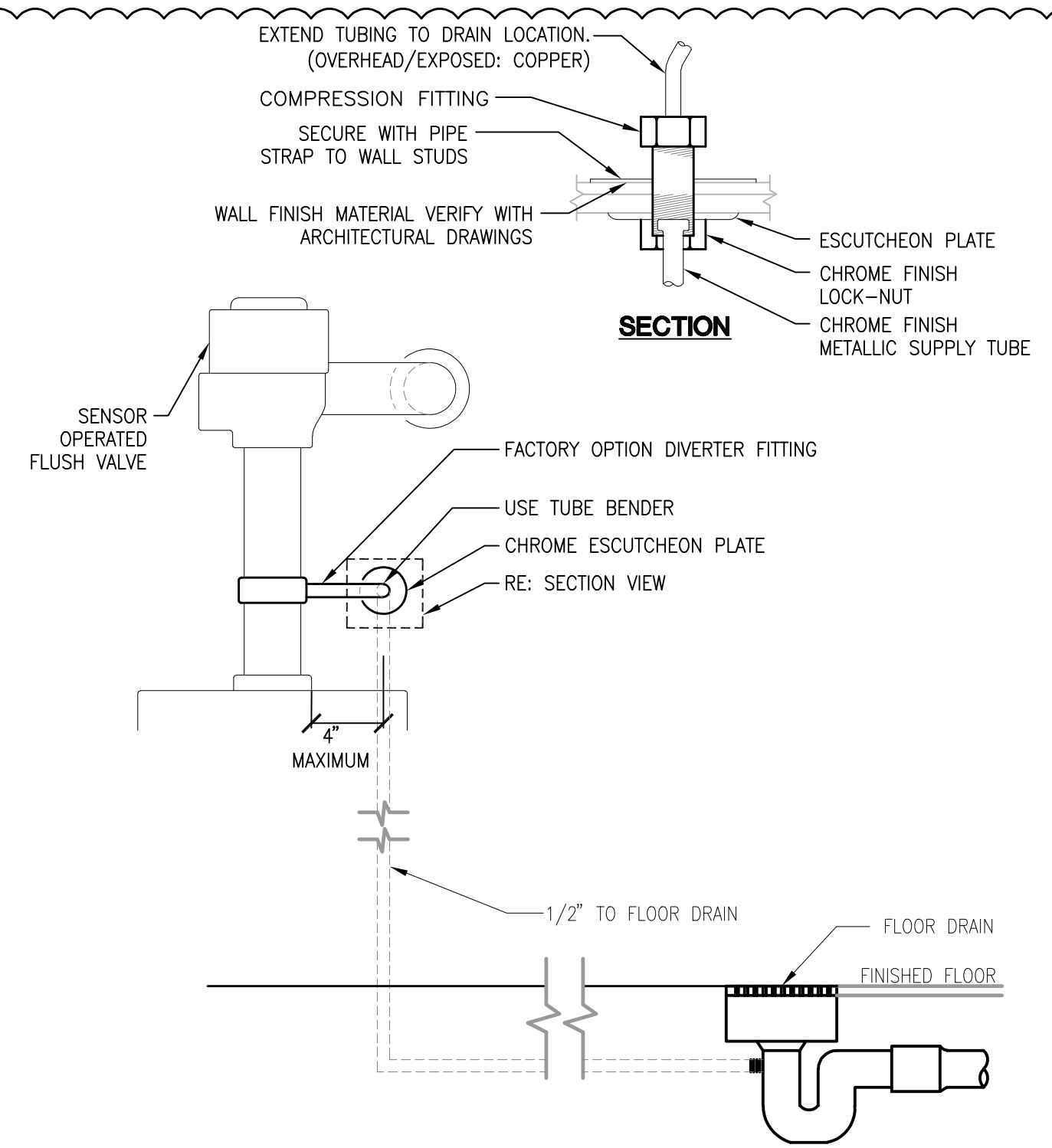
10 COMPRESSED AIR DETAILS
SCALE: NTS



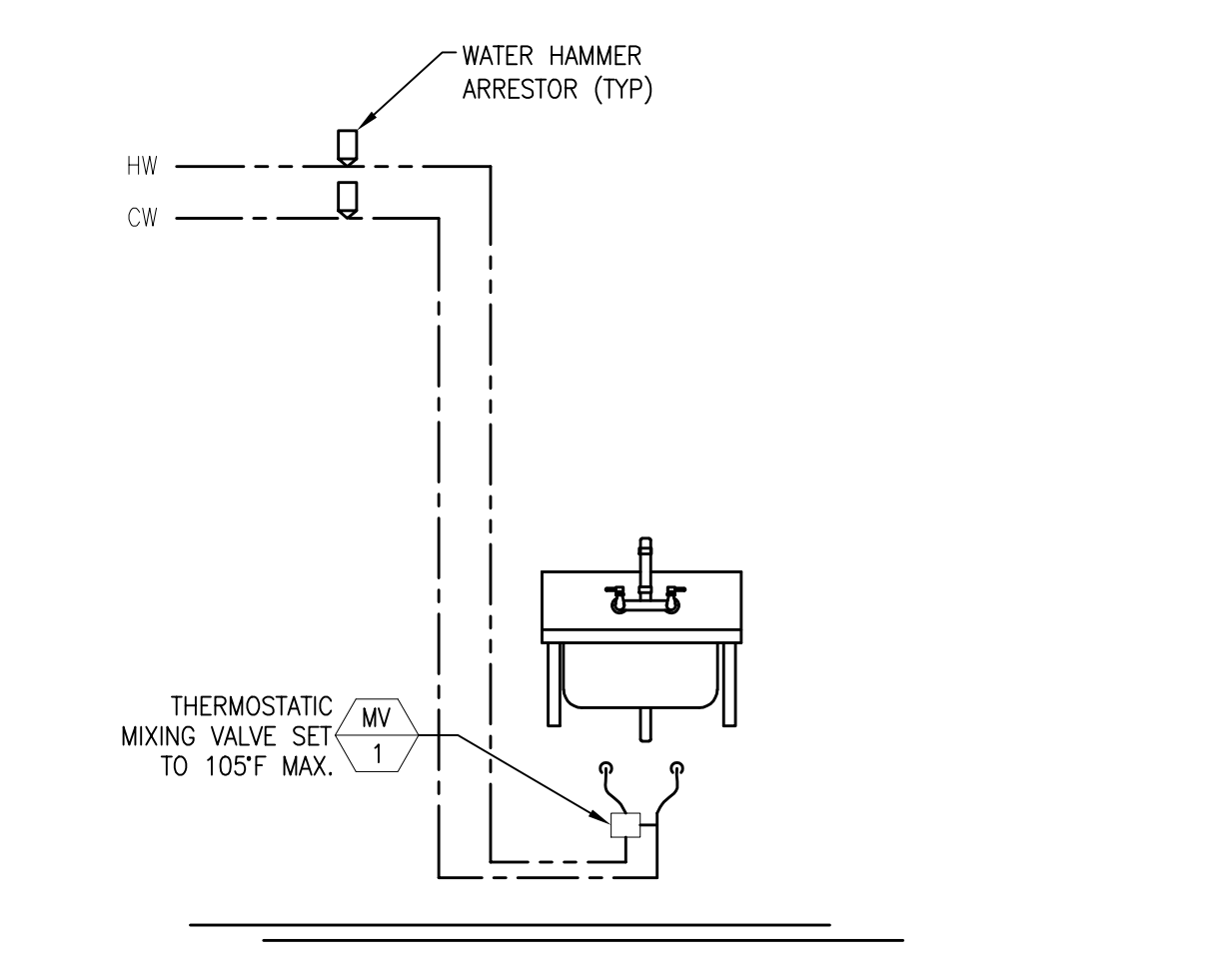
11 HUB DRAIN DETAIL
SCALE: NTS



12 ELECTRICAL WATER HEATER PIPING DETAIL
SCALE: NTS



13 FLUSH VALVE TRAP PRIMER DETAIL
SCALE: NTS



14 MIXING VALVE PIPING DETAIL
SCALE: NTS



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CSHOA

FOR CONSTRUCTION
6/25/18

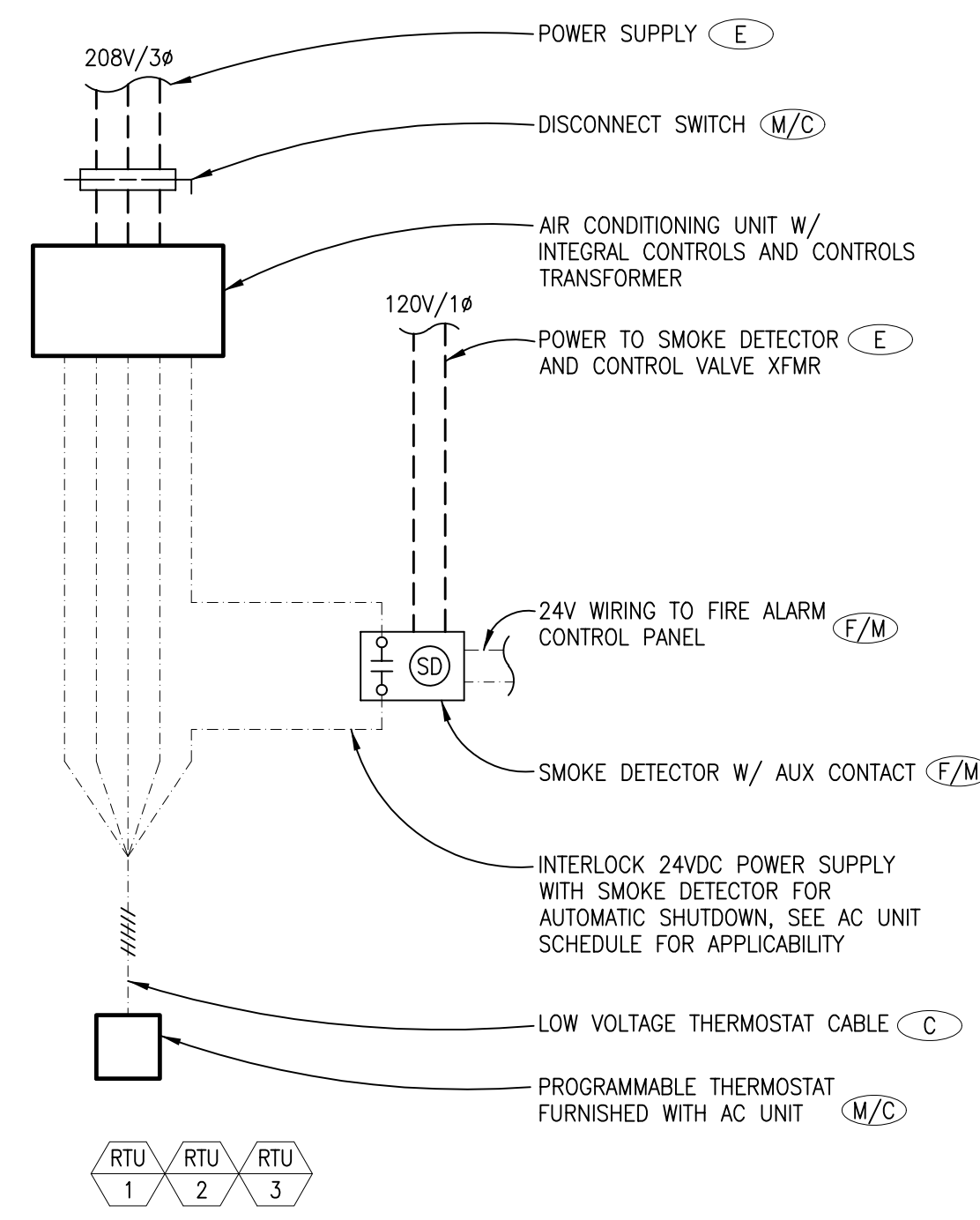
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DRAWN: KMH CHECKED: RCP

REVISION: 1 ADDENDUM NO. ONE 05-15-18

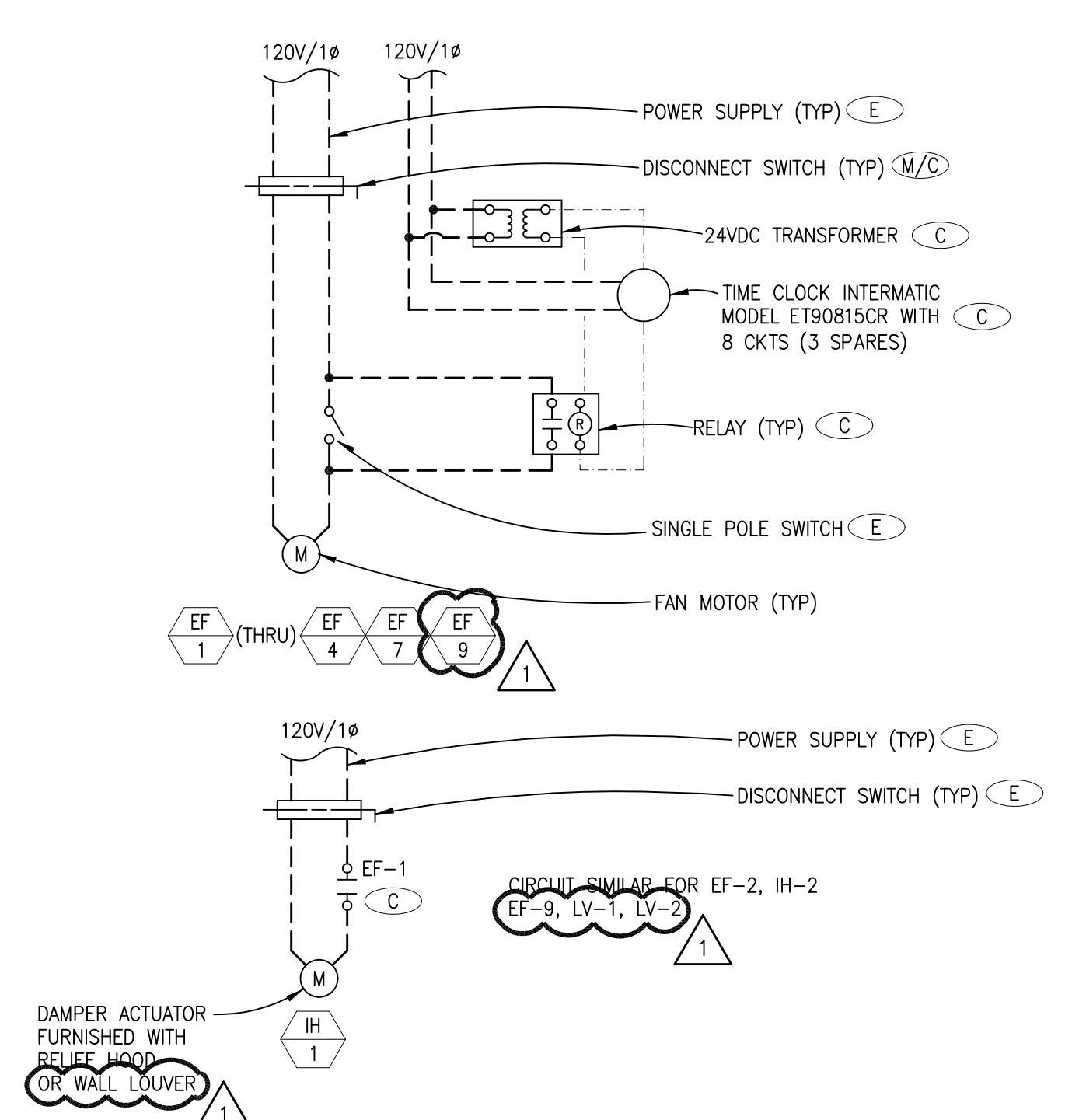
SHEET TITLE: PLUMBING DETAILS

SHEET: P51

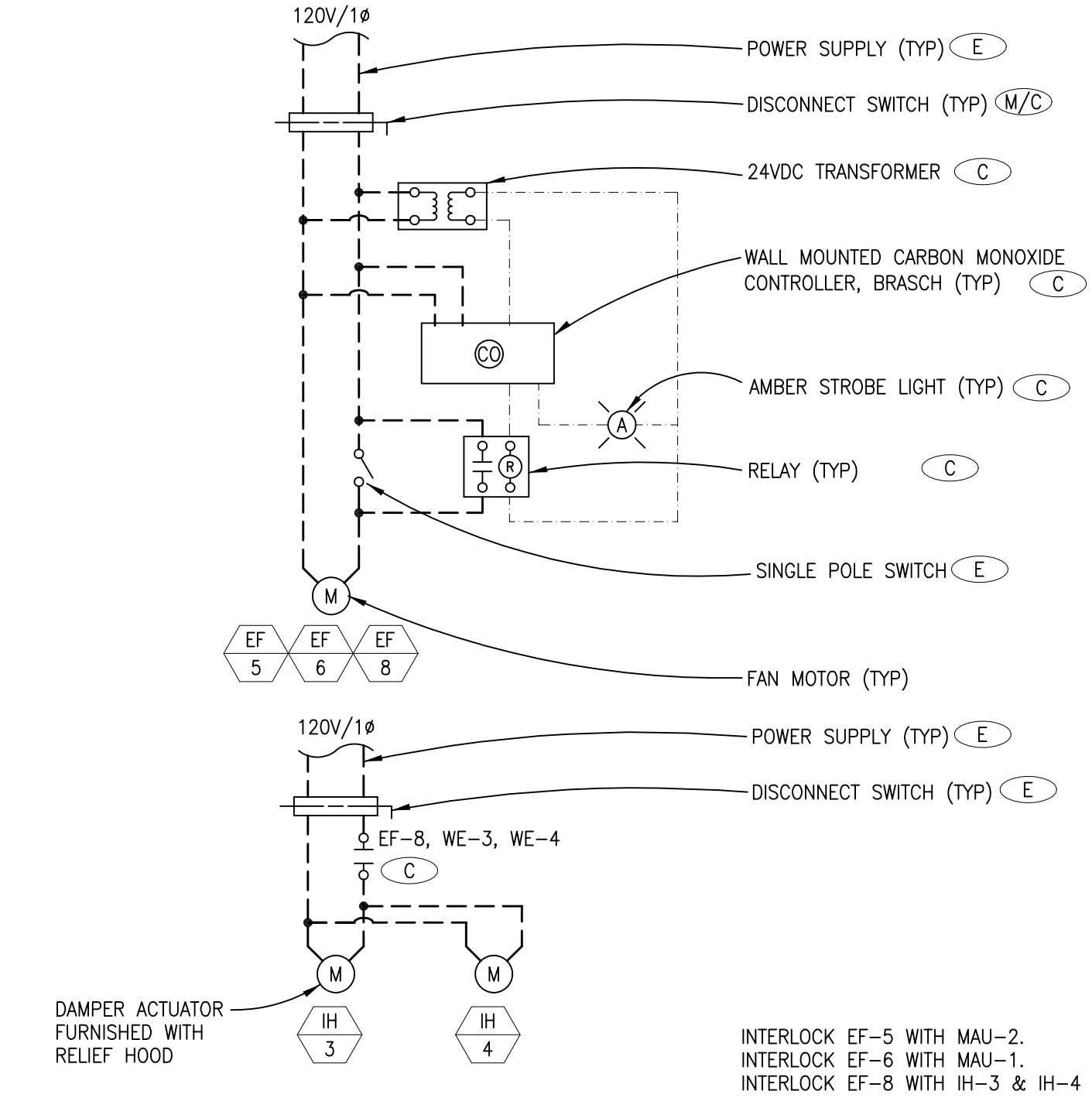
ORIGINAL SHEET SIZE: 30" x 42"



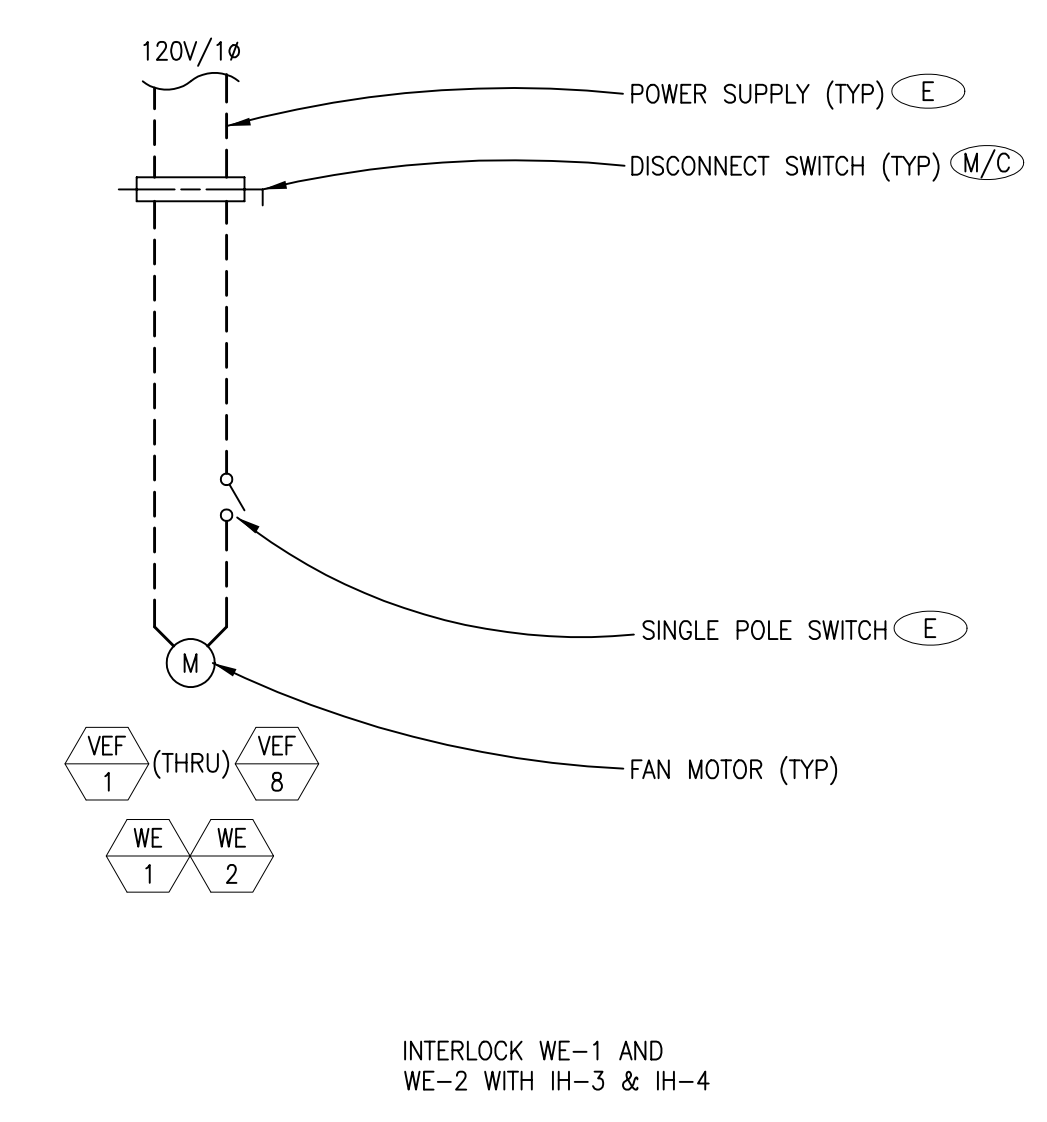
1 AIR CONDITIONING UNIT CONTROL SCHEMATIC
 SCALE: NTS



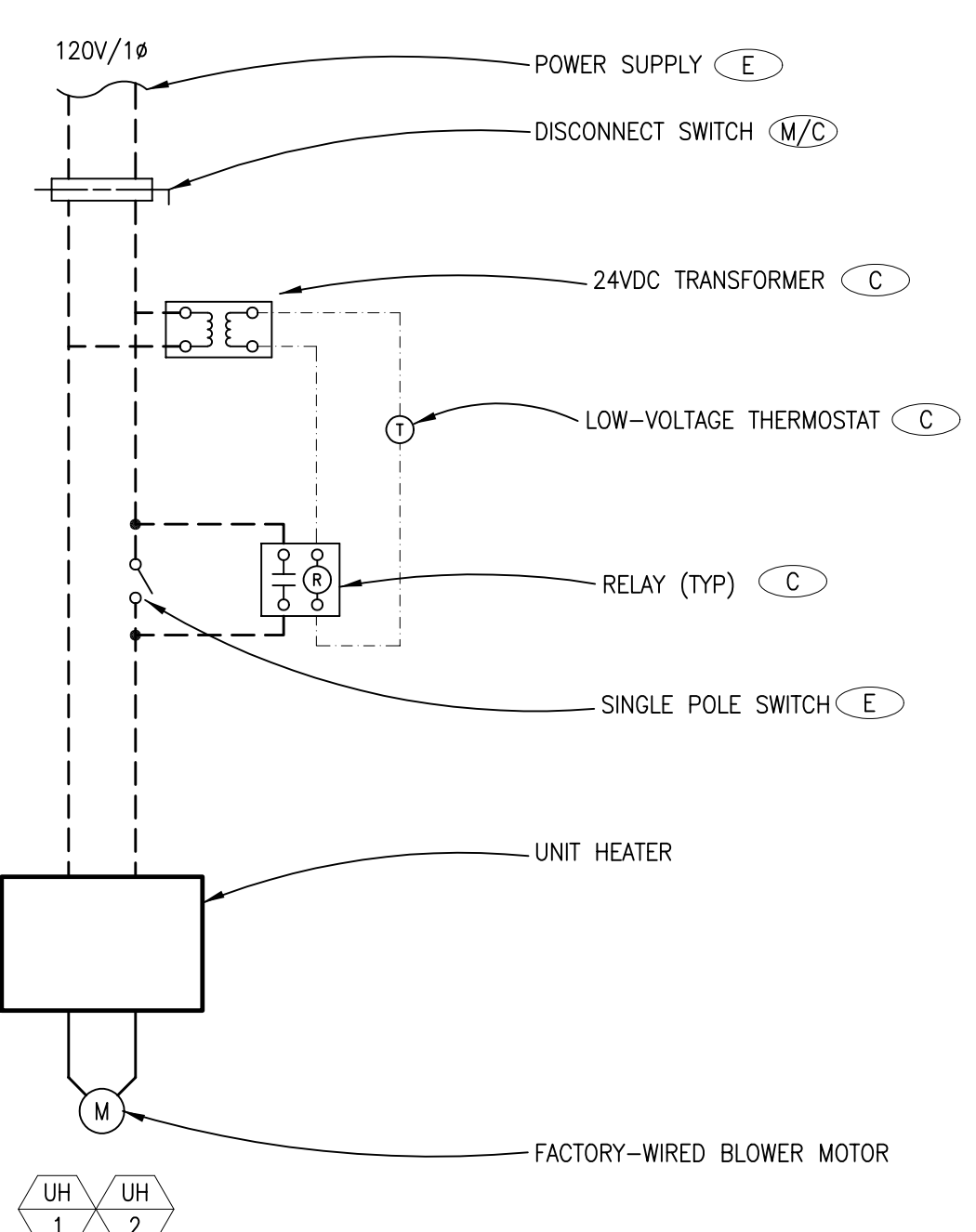
2 GENERAL EXHAUST CONTROL SCHEMATIC
 SCALE: NTS



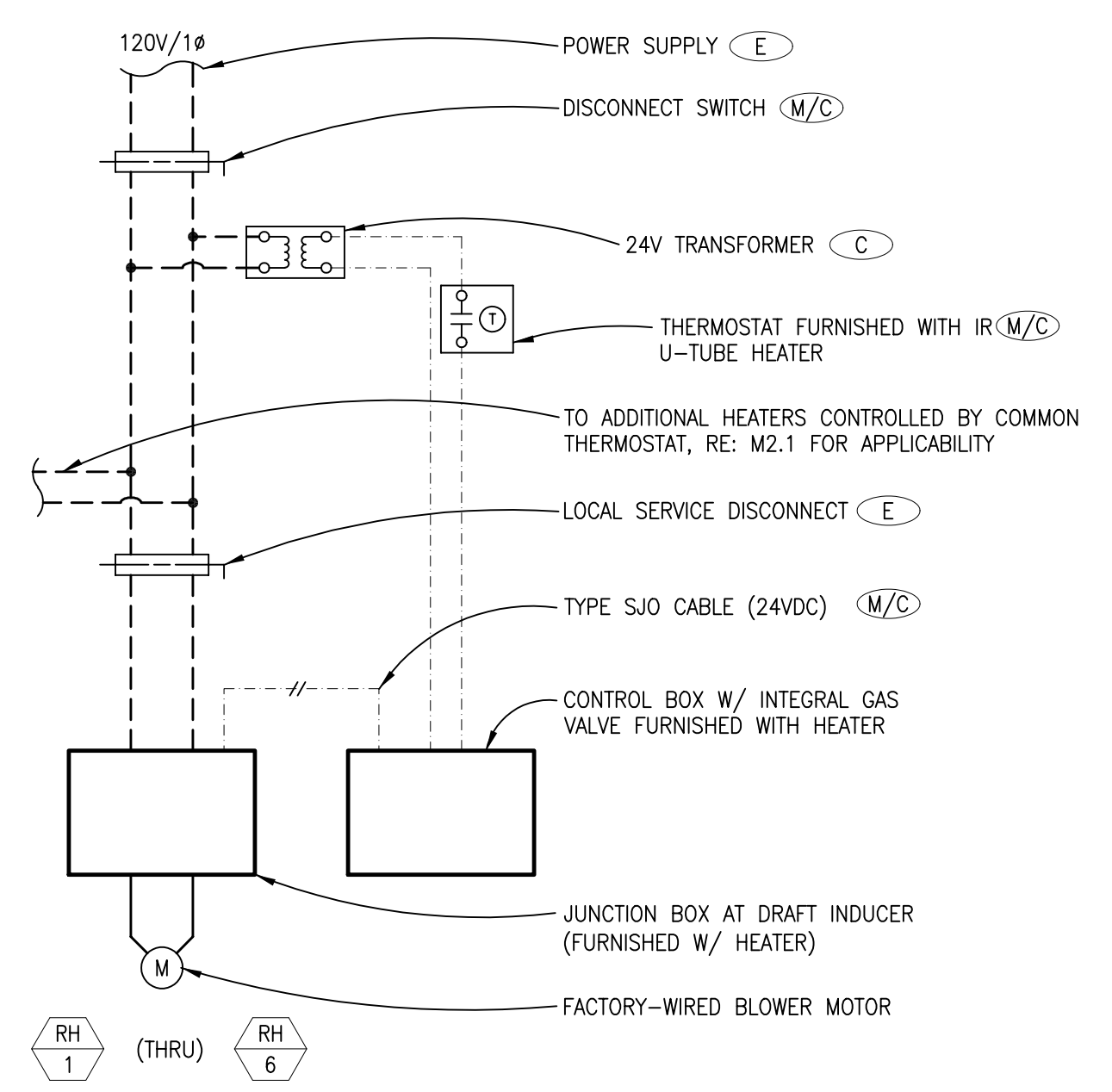
3 CARBON MONOXIDE VENTILATION CONTROL SCHEMATIC
 SCALE: NTS



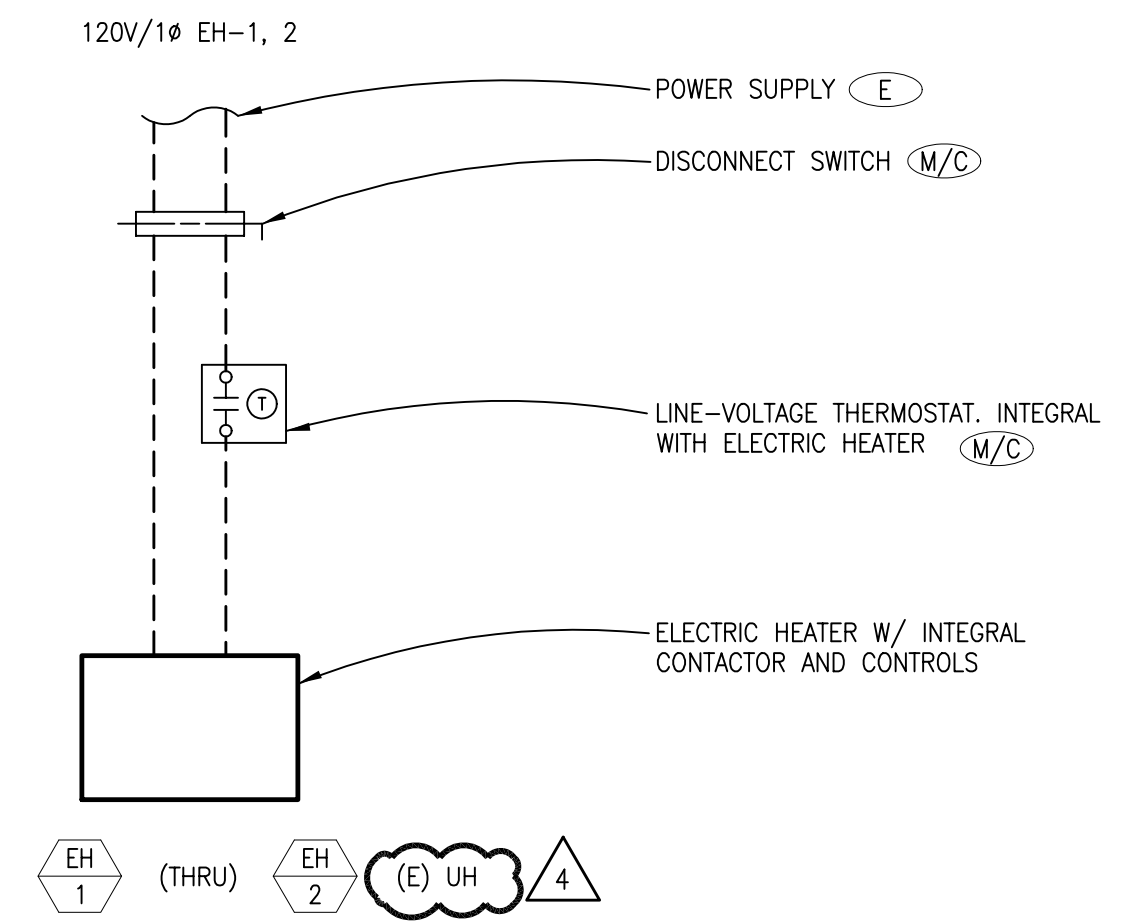
4 VEHICLE AND WELDING EXHAUST CONTROL SCHEMATIC
 SCALE: NTS



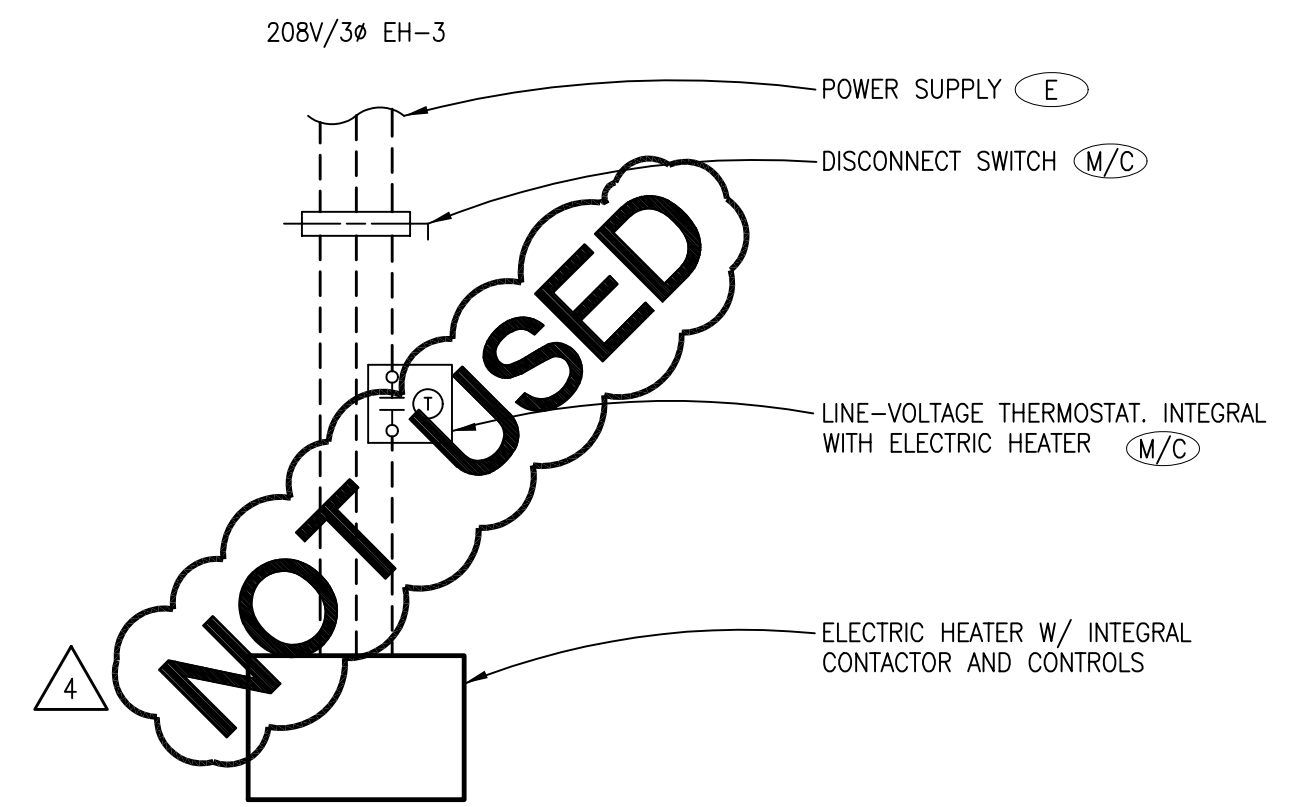
5 UNIT HEATER CONTROL SCHEMATIC
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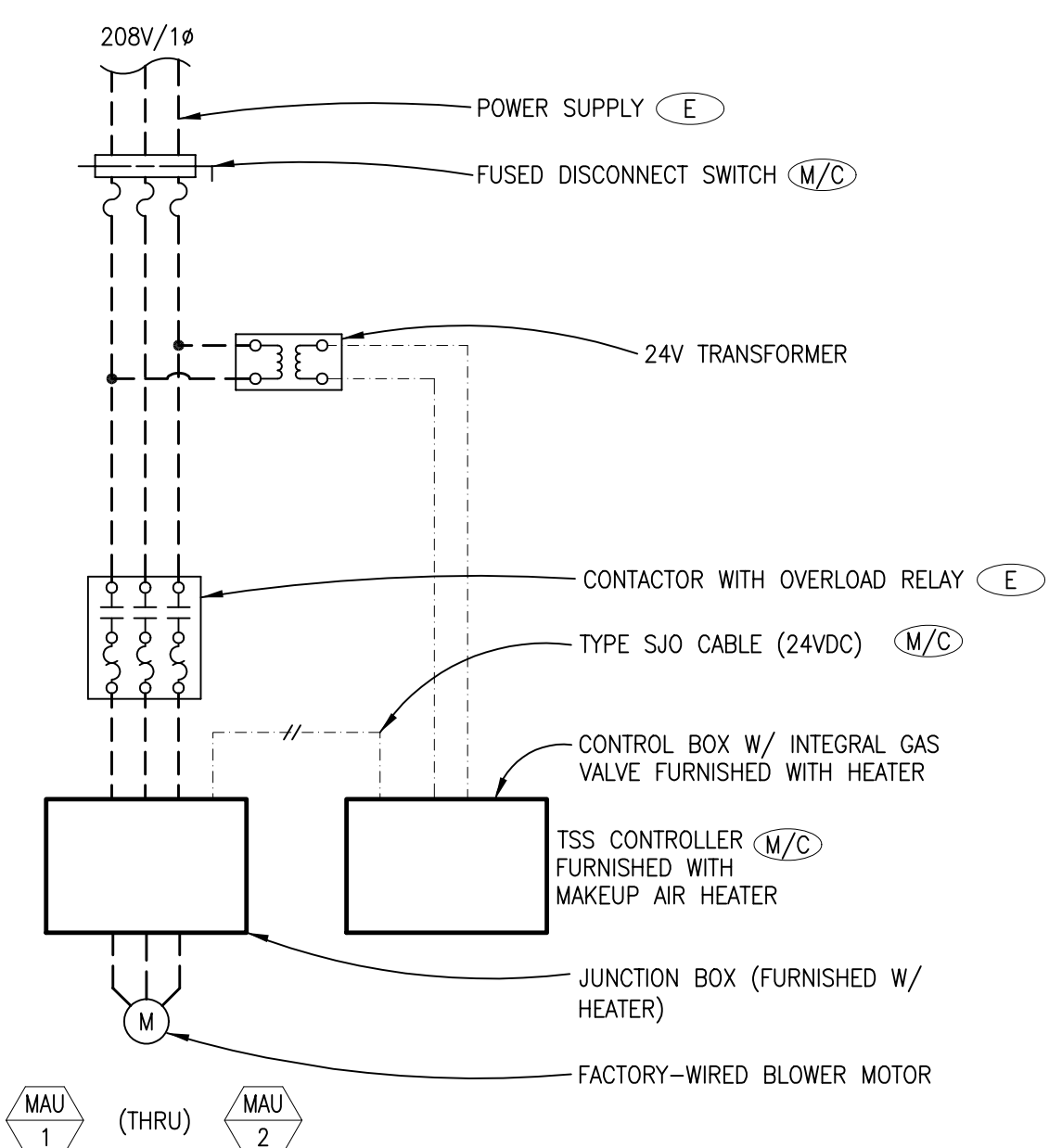
6 INFRARED RADIANT U-TUBE HEATER CONTROL SCHEMATIC
 SCALE: NTS



7 ELECTRIC HEATER CONTROL SCHEMATIC
 SCALE: NTS



8 ELECTRIC HEATER CONTROL SCHEMATIC
 SCALE: NTS



9 MAKEUP AIR HEATER CONTROL SCHEMATIC
 SCALE: NTS



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 GARDEN CITY, ID

FOR CONSTRUCTION
 6/25/18

PROJECT 18059.00 DATE 5-2-18
 DRAWN RCP CHECKED RCP

REVISED
 1 ADDENDUM NO. ONE 05-15-18
 4 ADDENDUM NO. FIVE 06-06-18

SHEET TITLE
HVAC CONTROL DIAGRAMS

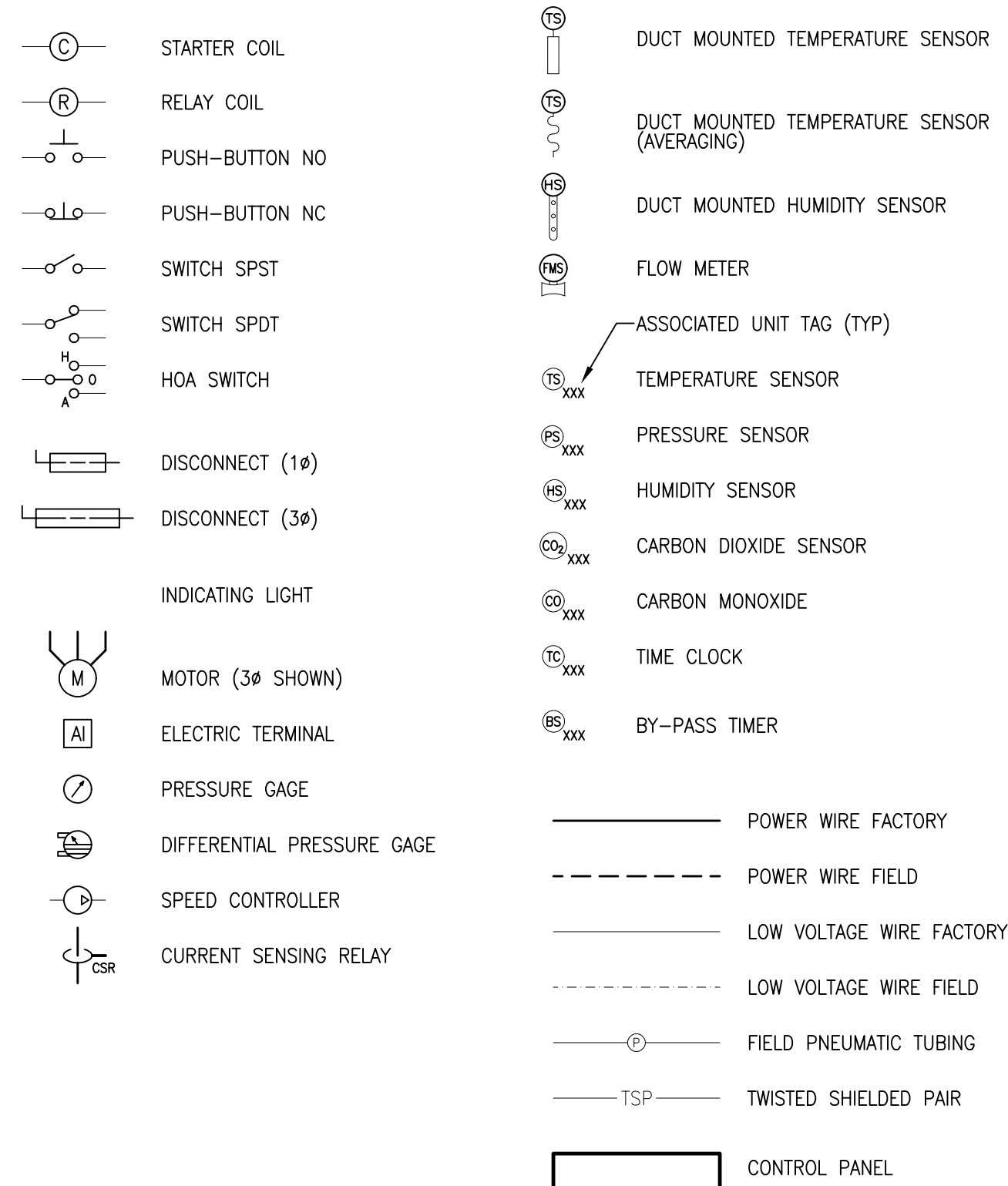
SHEET

BM71

ORIGINAL SHEET SIZE
 30" x 42"

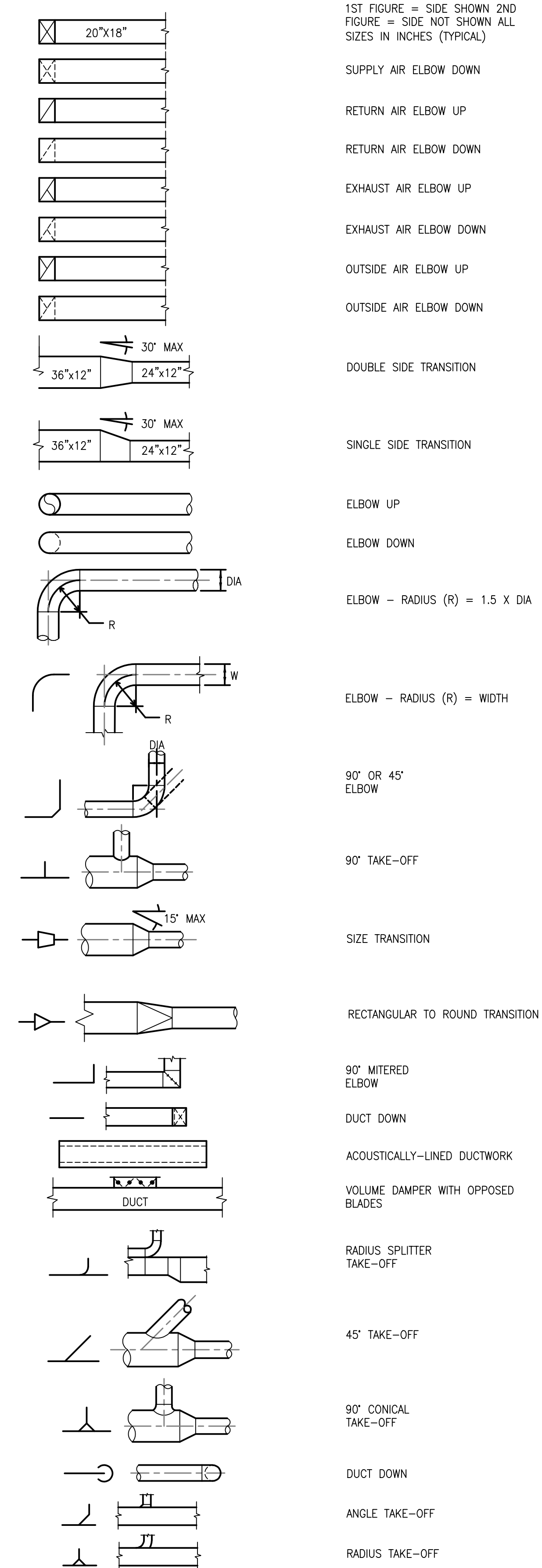
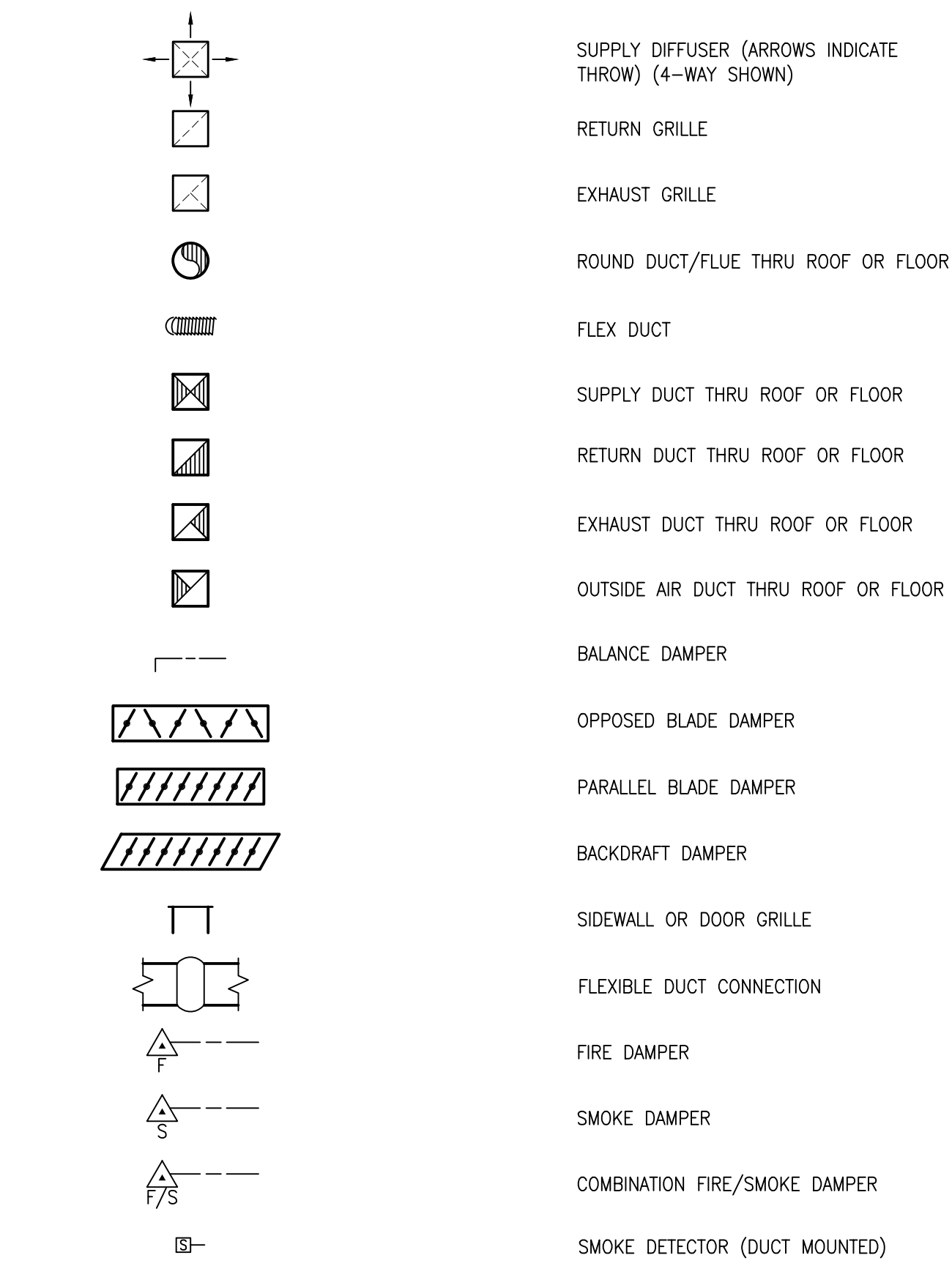


MECHANICAL CONTROL SYMBOLS



- (C) FURNISHED AND INSTALLED BY CONTROLS CONTRACTOR
- (E) FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR
- (M) FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR
- (M/E) FURNISHED AND INSTALLED BY MECH WIRED BY ELECTRICAL
- (C/M) FURNISHED AND WIRED BY CONTROLS, INSTALLED BY MECHANICAL
- (E/M) FURNISHED AND WIRED BY ELECTRICAL, INSTALLED BY MECH.
- (M/C) FURNISHED AND INSTALLED BY MECHANICAL WIRED BY CONTROLS
- (C/E) FURNISHED BY CONTROLS WIRED AND INSTALLED BY ELECTRICAL

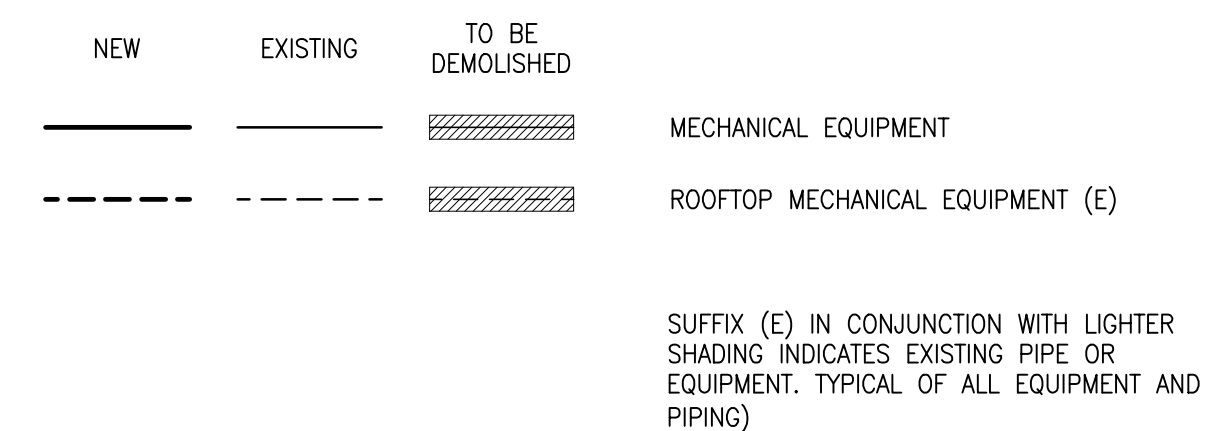
MECHANICAL DUCTWORK SYMBOLS



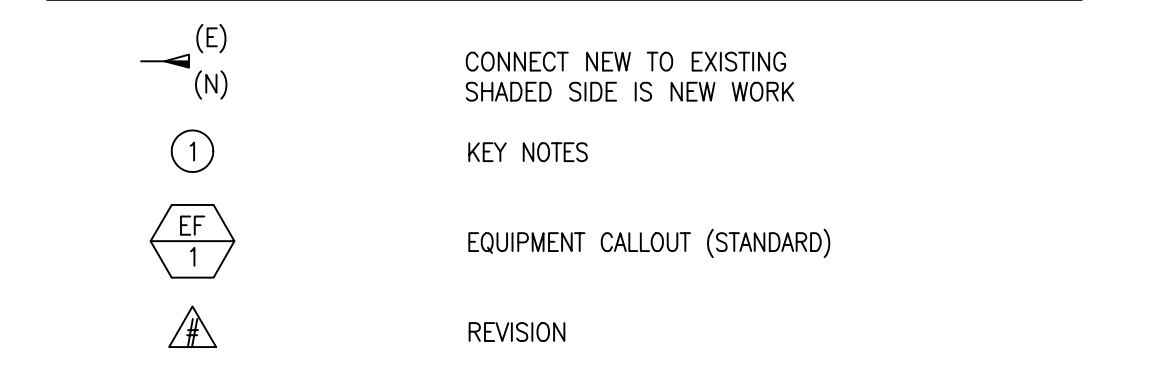
MECHANICAL CONTROL SYMBOLS

- (1) (ROOM OR UNIT#) THERMOSTAT
- (S) (ROOM OR UNIT#) WALL-MOUNT TEMPERATURE SENSOR

MECHANICAL LINETYPES LEGEND



MECHANICAL PIPING SYMBOLS



HVAC ABBREVIATIONS

AC	AIR CONDITIONING	KW	KILOWATT
ACCU	AIR COOLED CONDENSING UNIT	LAT	LEAVING AIR TEMPERATURE
ACU	AIR CONDITIONING UNIT	LBS	POUNDS
AFF	ABOVE FINISHED FLOOR	LVR	LOUVER
AFG	ABOVE FINISHED GRADE	MA	MILLIAMPS
AHU	AIR HANDLING UNIT	MAX	MAXIMUM
AL	ALUMINUM	MCA	MAXIMUM CIRCUIT AMPACITY
APD	AIR PRESSURE DROP	MECH	MECHANICAL
APPROX	APPROXIMATE	MFR	MANUFACTURER
ARCH	ARCHITECT, ARCHITECTURAL	MIN	MINIMUM
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR CONDITIONING ENGINEERS	MISC	MISCELLANEOUS
		MOC	MAXIMUM OVER CURRENT PROTECTION
AUTO	AUTOMATIC	MTO	MOUNTED
BD	BAROMETRIC DAMPER	MUA	MAKE UP AIR UNIT
BDD	BACKDRAFT DAMPER	N	NEW
BHP	BRAKE HORSE POWER	NC	NORMALLY CLOSED
BLDG	BUILDING	NIC	NOT IN CONTRACT
BOD	BOTTOM OF DUCT	NO	NORMALLY OPEN
BOT	BOTTOM	NO/#	NUMBER
BTU	BRITISH THERMAL UNIT	NOM	NOMINAL
C	COMMON	NTS	NOT TO SCALE
CAB	CABINET	OB	OPPOSED BLADE DAMPER
CFM	CUBIC FEET PER MINUTE	OC	ON CENTER
CL	CENTERLINE	OD	OUTSIDE DIAMETER
CLG	CENTERLINE	OPNG	OPENING
CONC	CONCRETE	OSA	OUTSIDE AIR
C/W	COORDINATE WITH	PH	PREHEAT
(D)	DEMOLISH	PREFAB	PREFABRICATED
D	DEPTH, DEEP	PSF	POUNDS PER SQUARE FOOT
DB	DRY BULB TEMPERATURE	PSI	POUNDS PER SQUARE INCH
DDC	DIRECT DIGITAL CONTROL	PVC	POLYVINYL CHLORIDE
DIA/Ø	DIAMETER	R/RAD	RADIUS
DIFF	DIFFUSER	RA	RETURN AIR
DN	DOWN	RE:	REFERENCE
DS	DEW POINT SENSOR	REG	REGISTER
DUC	DOOR UNDER CUT	REQ'D	REQUIRED
DWG	DRAWING	RG	RETURN AIR GRILLE
(E)	EXISTING	RH	REHEAT
EA	EXHAUST AIR	RM	ROOM
EAT	ENTERING AIR TEMPERATURE	RFM	REVOLUTIONS PER MINUTE
EER	ENERGY EFFICIENCY RATIO	RR	RETURN REGISTER
EF	EXHAUST FAN	RS	REFRIGERANT SUCTION
EFF	EFFICIENCY	RTU	ROOFTOP UNIT
EG	EXHAUST GRILLE	SA	SUPPLY AIR
EL	ELEVATION	SCHED	SCHEDULE
ELEC	ELECTRIC, ELECTRICAL	SD	SUPPLY DIFFUSER
ELEV	ELEVATOR	SEER	SEASONAL ENERGY EFFICIENCY RATIO
EQUIP	EQUIPMENT	SG	SUPPLY AIR GRILLE
ESP	EXTERNAL STATIC PRESSURE	SHT	SHEET
EXH	EXHAUST	SP	STATIC PRESSURE
EXT	EXTERIOR	SPEC(S)	SPECIFICATION(S)
F	FAHRENHEIT	SQ. FT.	SQUARE FEET
FCU	FAN COIL UNIT	STD	STANDARD
FD	FIRE DAMPER	TEMP	TEMPERATURE
FLA	FULL LOAD AMPS	TD	TEMPERATURE DIFFERENCE
FP	FIRE PROTECTION	TS	TEMPERATURE SENSOR
FPM	FEET PER MINUTE	TXV	THERMAL EXPANSION VALVE
FSD	COMBINATION FIRE/SMOKE DAMPER	TYP	TYPICAL
FT	FEET	UBC	UNIFORM BUILDING CODE
FT HD	FEET OF HEAD	UFC	UNIFORM FIRE CODE
FUR	FURNACE	UMC	UNIFORM MECHANICAL CODE
G	GAS	UH	UNIT HEATER
GAL	GAUGE	UV	UNIT VENTILATOR
GALV	GALLON	VAV	VARIABLE AIR VOLUME
GEN	GENERAL CONTRACTOR	VD	VOLUME DAMPER
GPM	GALLONS PER MINUTE	VEL	VELOCITY
HP	HORSEPOWER	VFD	VARIABLE FREQUENCY DRIVE
HS	HUMIDITY SENSOR	VF	VERIFY IN FIELD
HT	HEIGHT/HIGH	VF	VARIABLE VOLUME-FAN POWERED
HTR	HEATER	WR	VARIABLE VOLUME-REHEAT
HVAC	HEATING/VENTILATION, AIR CONDITIONING	W	WIDE, WIDTH
HW	HOT WATER (DOMESTIC)	W/	WITH
HX	HEAT EXCHANGER	WB	WET BULB TEMPERATURE
IBC	INTERNATIONAL BUILDING CODE	WC	WATER COLUMN
ID	INSIDE DIAMETER	W/O	WITHOUT
IE	INVERT ELEVATION		
IECC	INTERNATIONAL ENERGY CONSERVATION CODE		
IFGC	INTERNATIONAL FUEL GAS CODE		
IMC	INTERNATIONAL MECHANICAL CODE		
INSUL	INSULATION, INSULATE		
IN WC	INCHES OF WATER COLUMN		

MECHANICAL SHEET LIST

- M01 HVAC COVER SHEET
- M02 ENERGY CODE COMPLIANCE
- M11A HVAC DEMO PLAN
- M11B HVAC DEMO PLAN
- M12A HVAC ROOF DEMO PLAN
- M12B HVAC ROOF DEMO PLAN
- M21A HVAC FLOOR PLAN
- M21B HVAC FLOOR PLAN
- M22 2ND FLOOR HVAC PLAN
- M23A HVAC ROOF PLAN
- M23B HVAC ROOF PLAN
- M60 HVAC DETAILS
- M70 HVAC SCHEDULES
- M71 HVAC SCHEDULES
- BM71 HVAC CONTROL DIAGRAMS

MECHANICAL GENERAL NOTES

- A. ALL WORK SHALL COMPLY WITH THE OWNERS REQUIREMENTS, AND WITH ALL APPLICABLE STATE AND LOCAL CODES, OR AUTHORITY HAVING JURISDICTION.
- B. PROVIDE SEISMIC RESTRAINTS FOR ALL PIPING EQUIPMENT, AND DUCTWORK AS RECOMMENDED IN SMACNA "SEISMIC RESTRAINT MANUAL, GUIDELINES FOR MECHANICAL EQUIPMENT", LATEST EDITION. CONSULT LOCAL SEISMIC CODES FOR THE SEISMIC RATING OF AN AREA IN WHICH THE PROJECT IS BEING BUILT.
- C. FOR LOW PRESSURE DUCTWORK, WHERE RECTANGULAR DUCT IS INDICATED ON PLANS, EQUIVALENT SIZE ROUND DUCT MAY BE USED. EQUIVALENT SIZE RECTANGULAR DUCT MAY BE USED IN PLACE OF ROUND DUCT, EXCEPT IN EXPOSED AREAS. EQUIVALENT RECTANGULAR SIZE MAY NOT BE USED ON DUCTS EXPOSED TO VIEW OR AS INDICATED OTHERWISE.
- D. HVAC CONTRACTOR IS RESPONSIBLE FOR COORDINATING FINAL LOCATIONS OF DIFFUSERS, REGISTERS AND GRILLES WITH ARCHITECTURAL REFLECTED CEILING PLANS. CONTRACTOR SHALL NOT DEVIATE FROM REFLECTED CEILING PLAN UNLESS THERE ARE EXTENUATING JOB SITE CONDITIONS.
- E. DUCTWORK SIZES NOTED ON DRAWINGS ARE FREE AREA SIZES. HVAC CONTRACTOR SHALL BE RESPONSIBLE TO COMPENSATE FOR INSULATION, ETC.
- F. ALL SQUARE SUPPLY DIFFUSERS SHALL BE 4-WAY THROW UNLESS INDICATED OTHERWISE ON PLAN.
- G. PROVIDE TURNING VANES IN ALL MITERED ELBOWS AND BULL HEAD TEES.
- H. PROVIDE ACCESS DOORS IN DUCTWORK FOR RESETING OF FIRE/SMOKE DAMPERS WHERE INDICATED AND AS REQUIRED BY SPECIFICATIONS OR CODE.
- I. SUBSTITUTIONS OF EQUIPMENT OTHER THAN AS SPECIFIED SHALL BE THE COMPLETE RESPONSIBILITY OF THE HVAC CONTRACTOR. ANY ADDITIONAL ELECTRICAL, STRUCTURAL, MECHANICAL OR ARCHITECTURAL REQUIREMENTS SHALL BE PROVIDED AT NO ADDITIONAL EXPENSE TO OWNER.
- J. ALL WIRING, PIPING, AND EQUIPMENT IN ALL PLENUMS SHALL BE PLENUM RATED OR INSTALLED IN CONDUIT.
- K. COORDINATE INSTALLATION WITH THE WORK OF OTHER TRADES PRIOR TO STARTING. IN THE EVENT THAT CONFLICTS ARE FOUND WITH THE WORK OF OTHER TRADES, BRING ALL SUCH CONFLICTS TO THE ARCHITECT'S ATTENTION FOR RESOLUTION PRIOR TO PROCEEDING WITH THE WORK IN THAT AREA. DEFICIENCIES CAUSED BY FAILURE TO PERFORM SUCH VERIFICATIONS SHALL BE CORRECTED AT NO ADDITIONAL EXPENSE TO OWNER. IMMEDIATELY NOTIFY ARCHITECT OF CONDITIONS IN CONFLICT WITH THE PLANS.
- L. SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS.
- M. PRIOR TO BIDDING, OBTAIN A COPY OF THE SPECIFICATIONS AND PLANS, VISIT THE JOB SITE, TAKE ALL NECESSARY MEASUREMENTS, NOTE EXISTING CONDITIONS, AND GATHER ALL OTHER INFORMATION NEEDED FOR AN ACCURATE BID. ALLOWANCES WILL NOT BE MADE FOR EXTRA COSTS RESULTING FROM FAILURE TO NOTE EXISTING CONDITIONS.

BMS GENERAL NOTES

- A. ALL WORK SHALL COMPLY WITH THE OWNERS REQUIREMENTS, AND WITH ALL APPLICABLE STATE AND LOCAL CODES, OR AUTHORITY HAVING JURISDICTION.
- B. SEE HVAC AND PLUMBING DRAWINGS FOR THERMOSTAT, SENSOR, AND EQUIPMENT LOCATIONS.
- C. CONTROLS CONTRACTOR IS RESPONSIBLE FOR THE PURCHASE, INSTALLATION AND TESTING OF ALL OF THE CARBON MONOXIDE DETECTION AND CONTROL SYSTEMS. RE: M21A, M21B, BM7.1.
- D. CONTROLS CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF CONTROLS ASSOCIATED WITH THE INDUSTRIAL CEILING FANS. RE: M21A, M21B.
- E. CONTROLS CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF CONTROLS ASSOCIATED WITH RTU-1, RTU-2, RTU-3. COORDINATE WITH MECHANICAL CONTRACTOR PROVIDED CONTROLS ON THE ROOFTOP UNITS.
- F. CONDUIT DROPS AND BACKER BOXES FOR T-STATS ARE BY EC. RE: ELECTRICAL DRAWINGS.
- G. WHERE 24V TRANSFORMERS ARE SHOWN ON THE CONTROL DIAGRAMS, THE EC WILL PROVIDE A JUNCTION BOX AND 120V POWER TO THE BOX. CC WILL PROVIDE AND INSTALL THE TRANSFORMER.



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GARDEN CITY, ID
5800 COFFEY STREET

FOR CONSTRUCTION
6/25/18

PROJECT DATE
18059.00 5-2-18

DRAWN CHECKED
RLM RCP

REVISED

SHEET TITLE
HVAC COVER SHEET

SHEET
M01

ORIGINAL SHEET SIZE
30" x 42"



COMcheck Software Version 4.0.2.0
Mechanical Compliance Certificate

Project Information

Energy Code: 2015 IECC
 Project Title: ITD Maintenance Building TI
 Location: Garden City, Idaho
 Climate Zone: 5b
 Project Type: Alteration

Construction Site: 5800 Coffey Street, Garden City, ID 83714
 Owner/Agent:
 Designer/Contractor: Russell C. Pratt P.E., CSHOA, 200 Broad St., Boise, ID 83702, 208-343-4635

Mechanical Systems List

Quantity	System Type & Description
1	RTU-1 (Single Zone): Heating: 1 each - Other, Gas, Capacity = 108 kBtu/h No minimum efficiency requirement applies Cooling: 1 each - Single Package DX Unit, Capacity = 62 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 14.00 SEER, Required Efficiency = 14.00 SEER Fan System: RTU-1 Offices - Compliance (Motor nameplate HP method) : Passes Fans: FAN 1 Supply, Constant Volume, 2000 CFM, 1.0 motor nameplate hp, 0.0 fan efficiency
1	RTU-2 (Single Zone): Heating: 1 each - Other, Gas, Capacity = 108 kBtu/h No minimum efficiency requirement applies Cooling: 1 each - Single Package DX Unit, Capacity = 37 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 14.00 SEER, Required Efficiency = 14.00 SEER Fan System: RTU-2 Offices/Breakroom/Restrooms - Compliance (Motor nameplate HP method) : Passes Fans: FAN 2 Supply, Constant Volume, 1200 CFM, 1.0 motor nameplate hp, 0.0 fan efficiency
1	RTU-3 (Single Zone): Heating: 1 each - Other, Gas, Capacity = 180 kBtu/h No minimum efficiency requirement applies Cooling: 1 each - Single Package DX Unit, Capacity = 118 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 11.00 EER, Required Efficiency = 11.00 EER Fan System: RTU-3 2nd Floor Storage - Compliance (Motor nameplate HP method) : Passes Fans: FAN 3 Supply, Constant Volume, 4000 CFM, 2.0 motor nameplate hp, 0.0 fan efficiency
2	UH-1, UH-2 (Unknown): Heating: 2 each - Unit Heater, Gas, Capacity = 60 kBtu/h Proposed Efficiency = 83.00% Ee, Required Efficiency = 80.00% Ee Fan System: UH-1, UH-2 Storage - Compliance (Motor nameplate HP method) : Passes Fans: FAN 4 Supply, Constant Volume, 769 CFM, 0.0 motor nameplate hp, 0.0 fan efficiency

Project Title: ITD Maintenance Building TI
 Data filename: Q:\2018\18059.0\Mech\04_Calcs\18059 ITD Maintenance Building.cck Report date: 05/02/18 Page 1 of 16

Quantity	System Type & Description
1	MAU-1 Space Heater (Single Zone): Heating: 1 each - Other, Gas, Capacity = 1062 kBtu/h No minimum efficiency requirement applies Fan System: MAU-1 Space Heater Light Maintenance - Compliance (Motor nameplate HP method) : Passes Fans: FAN 5 Supply, Constant Volume, 5400 CFM, 3.0 motor nameplate hp, 0.0 fan efficiency
1	MAU-2 Space Heater (Single Zone): Heating: 1 each - Other, Gas, Capacity = 1062 kBtu/h No minimum efficiency requirement applies Fan System: MAU-2 Space Heater Heavy Maintenance - Compliance (Motor nameplate HP method) : Passes Fans: FAN 6 Supply, Constant Volume, 5400 CFM, 3.0 motor nameplate hp, 0.0 fan efficiency
2	RH-1, RH-2 (Single Zone): Heating: 2 each - Radiant Heater, Gas, Capacity = 150 kBtu/h No minimum efficiency requirement applies Fan System: None
3	RH-3, RH-4, RH-5, RH-6 (Single Zone): Heating: 3 each - Radiant Heater, Gas, Capacity = 65 kBtu/h No minimum efficiency requirement applies Fan System: None
2	EH-1, EH-2 (Unknown): Heating: 2 each - Unit Heater, Electric, Capacity = 3 kBtu/h No minimum efficiency requirement applies Fan System: EH-1, EH-1 Restroom/Storage - Compliance (Motor nameplate HP method) : Passes Fans: FAN 7 Supply, Constant Volume, 65 CFM, 0.0 motor nameplate hp, 0.0 fan efficiency

4 NOT USED - ~~EH-3 (Unknown):
Heating: 1 each - Unit Heater, Electric, Capacity = 344 kBtu/h
No minimum efficiency requirement applies
Fan System: EH-3 | Storage - Compliance (Motor nameplate HP method) : Passes
Fans:
FAN 8 Supply, Constant Volume, 650 CFM, 0.0 motor nameplate hp, 0.0 fan efficiency~~

Mechanical Compliance Statement
 Compliance Statement: The proposed mechanical alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems were designed to meet the 2015 IECC requirements in COMcheck Version 4.0.2.0 and to comply with the mandatory requirements listed in the Inspection Checklist.

Russell C. Pratt P.E. Signature Date: 05/16

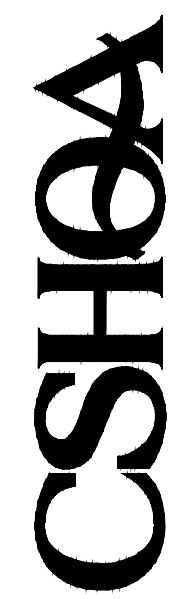
Project Title: ITD Maintenance Building TI
 Data filename: Q:\2018\18059.0\Mech\04_Calcs\18059 ITD Maintenance Building.cck Report date: 05/02/18 Page 2 of 16



RUSSELL C. PRATT, P.E.
 200 BROAD STREET
 BOISE, ID 83702
 PHONE: 208-343-4635 - FAX: 208-343-1888
 THESE CALCULATIONS AND SPECIFICATIONS ARE MECHANICAL SYSTEMS ONLY. THEY DO NOT COVER ELECTRICAL, PLUMBING, OR STRUCTURAL WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL BUILDING DEPARTMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL BUILDING DEPARTMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL BUILDING DEPARTMENT.

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FOR CONSTRUCTION
 6/25/18

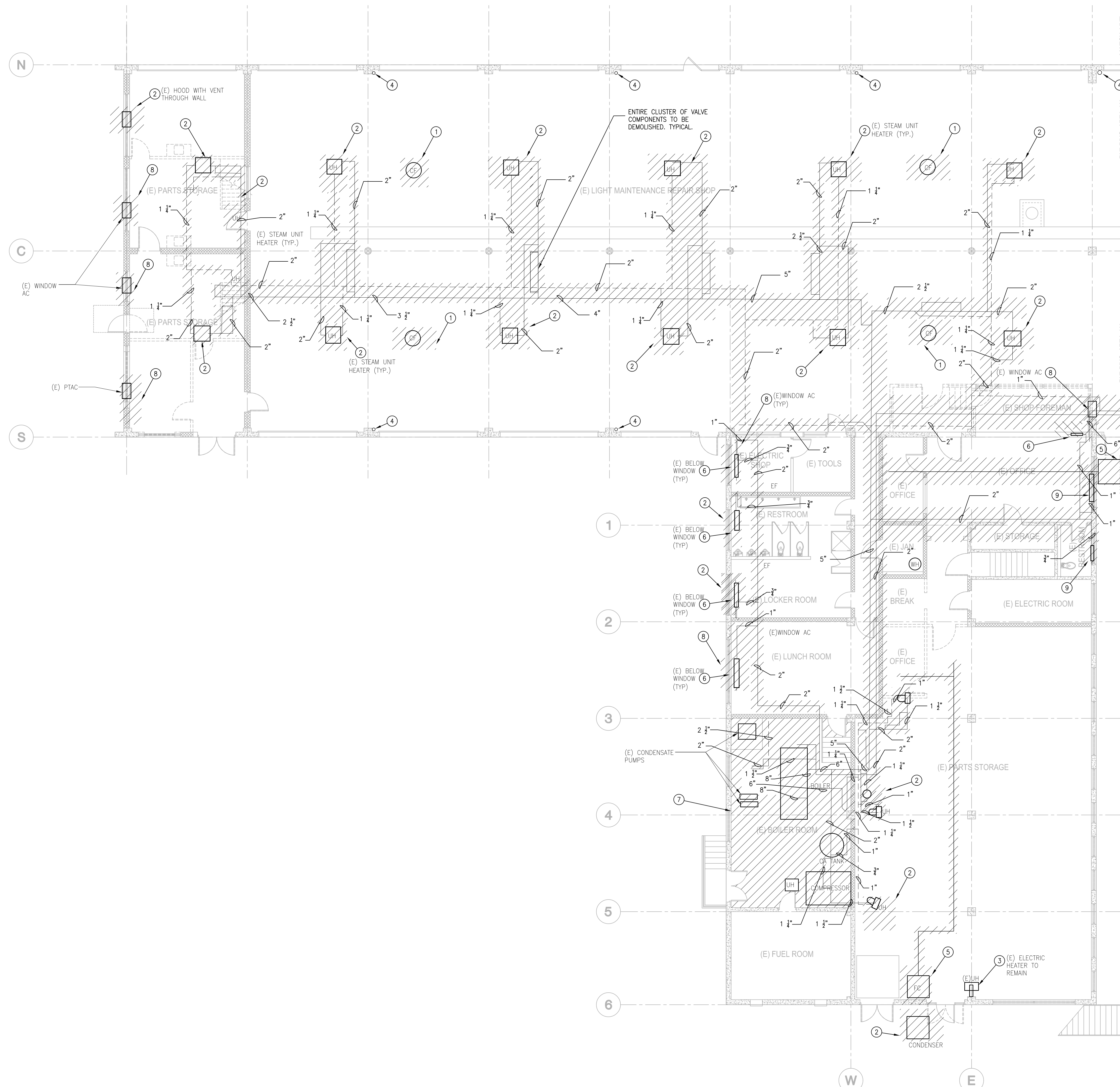
PROJECT 18059.00	DATE 5-2-18
DRAWN RLM	CHECKED RCP

REVISED
 4 ADDENDUM NO. FIVE
 06-06-18

SHEET TITLE
ENERGY CODE COMPLIANCE

SHEET
M02

ORIGINAL SHEET SIZE
 30" x 42"



HVAC DEMO PLAN
SCALE 1/8" = 1'-0"

MECHANICAL GENERAL NOTES:

- A. ALL WORK SHALL COMPLY WITH THE OWNERS REQUIREMENTS, AND WITH ALL APPLICABLE STATE AND LOCAL CODES, OR AUTHORITY HAVING JURISDICTION.
- B. PROVIDE SEISMIC RESTRAINTS FOR ALL PIPING EQUIPMENT, AND DUCTWORK AS RECOMMENDED IN SMACNA "SEISMIC RESTRAINT MANUAL GUIDELINES FOR MECHANICAL EQUIPMENT", LATEST EDITION. CONSULT LOCAL SEISMIC CODES FOR THE SEISMIC RATING OF AN AREA IN WHICH THE PROJECT IS BEING BUILT.
- C. FOR LOW PRESSURE DUCTWORK, WHERE RECTANGULAR DUCT IS INDICATED ON PLANS, EQUIVALENT SIZE ROUND DUCT MAY BE USED. EQUIVALENT SIZE RECTANGULAR DUCT MAY BE USED IN PLACE OF ROUND DUCT, EXCEPT IN EXPOSED AREAS. EQUIVALENT RECTANGULAR SIZE MAY NOT BE USED ON DUCTS EXPOSED TO VIEW OR AS INDICATED OTHERWISE.
- D. COORDINATE FINAL LOCATIONS OF DIFFUSERS, REGISTERS AND GRILLES WITH ARCHITECTURAL REFLECTED CEILING PLANS. CONTRACTOR SHALL NOT DEVIATE FROM REFLECTED CEILING PLAN UNLESS THERE ARE EXTENUATING JOB SITE CONDITIONS.
- E. DUCTWORK SIZES NOTED ON DRAWINGS ARE FREE AREA SIZES. HVAC CONTRACTOR SHALL BE RESPONSIBLE TO COMPENSATE FOR INSULATION, ETC.
- F. ALL SQUARE SUPPLY DIFFUSERS SHALL BE 4-WAY THROW UNLESS INDICATED OTHERWISE ON PLAN.
- G. PROVIDE TURNING VANES IN ALL MITERED ELBOWS AND BULL HEAD TEES.
- H. PROVIDE ACCESS DOORS IN DUCTWORK FOR RESETTING OF FIRE/SMOKE DAMPERS WHERE INDICATED AND AS REQUIRED BY SPECIFICATIONS OR CODE.
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- K. COORDINATE INSTALLATION WITH THE WORK OF OTHER TRADES PRIOR TO STARTING. IN THE EVENT THAT CONFLICTS ARE FOUND WITH THE WORK OF OTHER TRADES, BRING ALL SUCH CONFLICTS TO THE ARCHITECT'S ATTENTION FOR RESOLUTION PRIOR TO PROCEEDING WITH THE WORK IN THAT AREA. DEFICIENCIES CAUSED BY FAILURE TO PERFORM SUCH VERIFICATIONS SHALL BE CORRECTED AT NO ADDITIONAL EXPENSE TO OWNER. IMMEDIATELY NOTIFY ARCHITECT OF CONDITIONS IN CONFLICT WITH THE PLANS.
- L. PRIOR TO BIDDING, OBTAIN A COPY OF THE PLANS, VISIT THE JOB SITE, TAKE ALL NECESSARY MEASUREMENTS, NOTE EXISTING CONDITIONS, AND GATHER ALL OTHER INFORMATION NEEDED FOR AN ACCURATE BID. ALLOWANCES WILL NOT BE MADE FOR EXTRA COSTS RESULTING FROM FAILURE TO NOTE EXISTING CONDITIONS.

SHEET NOTES:

- 1. DEMOLISH EXISTING CEILING FAN.
- 2. DEMOLISH EXISTING STEAM HEATER WITH ALL ASSOCIATED PIPING, VALVES, TRAPS, CONTROL WIRING AND SENSORS.
- 3. EXISTING ELECTRIC HEATER AND CONTROLS TO REMAIN IN SERVICE.
- 4. EXISTING HOSE, DUCT AND/OR REEL SYSTEM TO REMAIN.
- 5. DEMOLISH EXISTING FAN COIL OR AC UNIT AND ASSOCIATED DUCTWORK.
- 6. DEMOLISH EXISTING FLOOR MOUNTED STEAM RADIATOR.
- 7. DEMOLISH ALL EXISTING EQUIPMENT AND ASSOCIATED PIPING IN THIS AREA.
- 8. DEMOLISH EXISTING WALL AC OR PTAC.

MECHANICAL LEGEND:

	SUPPLY DIFFUSER		EA DUCT THRU ROOF OR FLOOR
	RETURN GRILLE		SA/OA DUCT THRU ROOF OR FLOOR
	EXHAUST GRILLE		ROUND DUCT THROUGH ROOF
	SIDEWALL OR DOOR GRILLE		THERMOSTAT
	FLEX DUCT		REMOTE TEMPERATURE SENSOR
	BALANCE DAMPER		SMOKE DETECTOR
	MECHANICAL EQUIPMENT		EQUIPMENT CALLOUT (STANDARD)
	ROOFTOP MECHANICAL EQUIPMENT		

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DLA/DA	DIAMETER	OSA	OUTSIDE AIR
(E)	EXISTING	(R)	RELOCATE
EA	EXHAUST AIR	RE:	REFERENCE
EF	EXHAUST FAN	RG	RETURN AIR GRILLE
EXH	EXHAUST	SA	SUPPLY AIR
F	FAHRENHEIT	SP	STATIC PRESSURE
FFM	FEET PER MINUTE	TG	TRANSFER GRILLE
MAX	MAXIMUM	WC	WATER COLUMN



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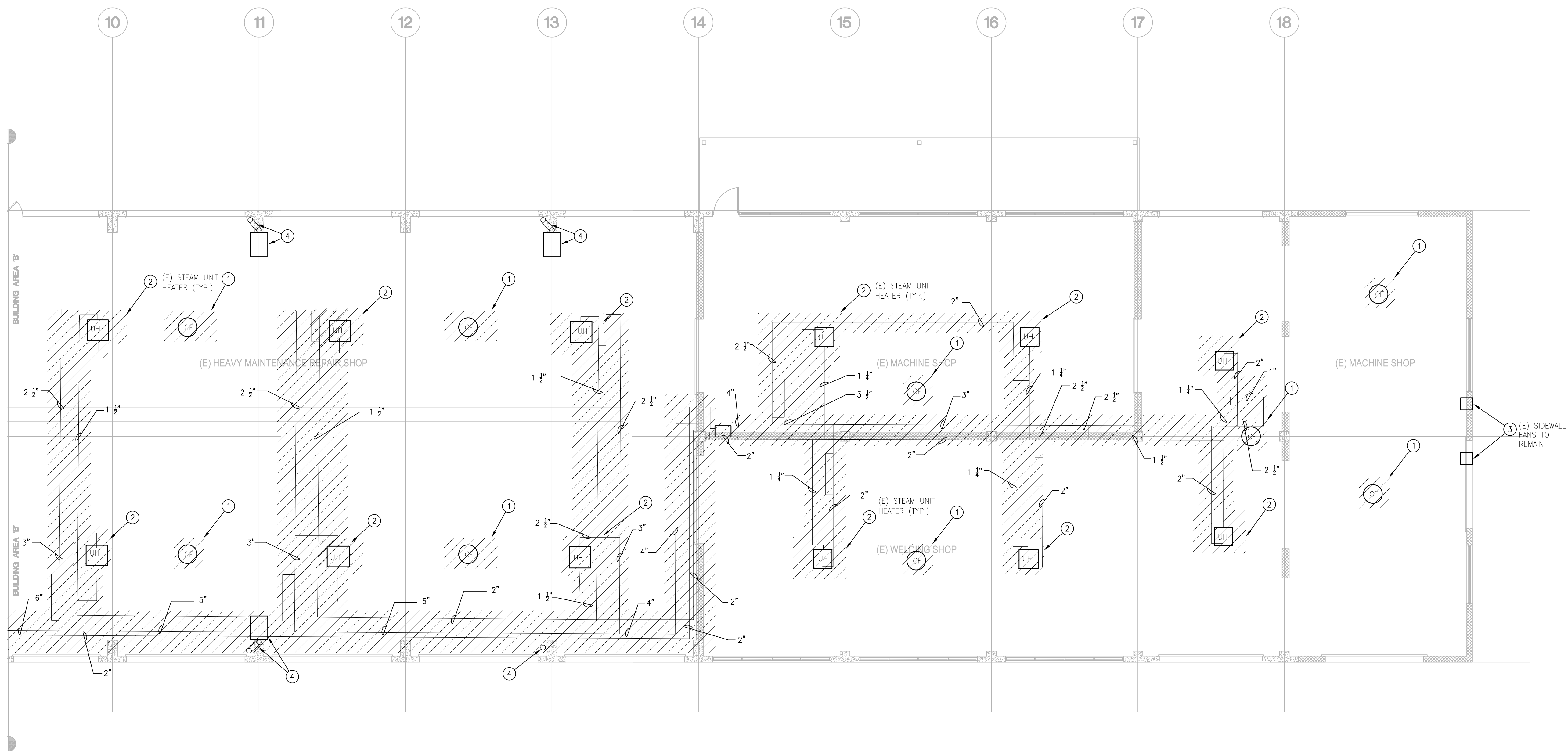
PROJECT	DATE
18059.00	5-2-18
DRAWN	CHECKED
RLM	RCP

REVISED

SHEET TITLE
HVAC DEMO PLAN

SHEET
M11A

ORIGINAL SHEET SIZE
30" x 42"



HVAC DEMO PLAN
SCALE 1/8" = 1'-0"

MECHANICAL GENERAL NOTES:

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- 3. EXISTING FANS TO REMAIN.
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MECHANICAL LEGEND:

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RETURN GRILLE	SA/OA DUCT THRU ROOF OR FLOOR
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ROOFTOP MECHANICAL EQUIPMENT	

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Ø	DIAMETER	OSA	OUTSIDE AIR
(E)	EXISTING	(R)	RELOCATE
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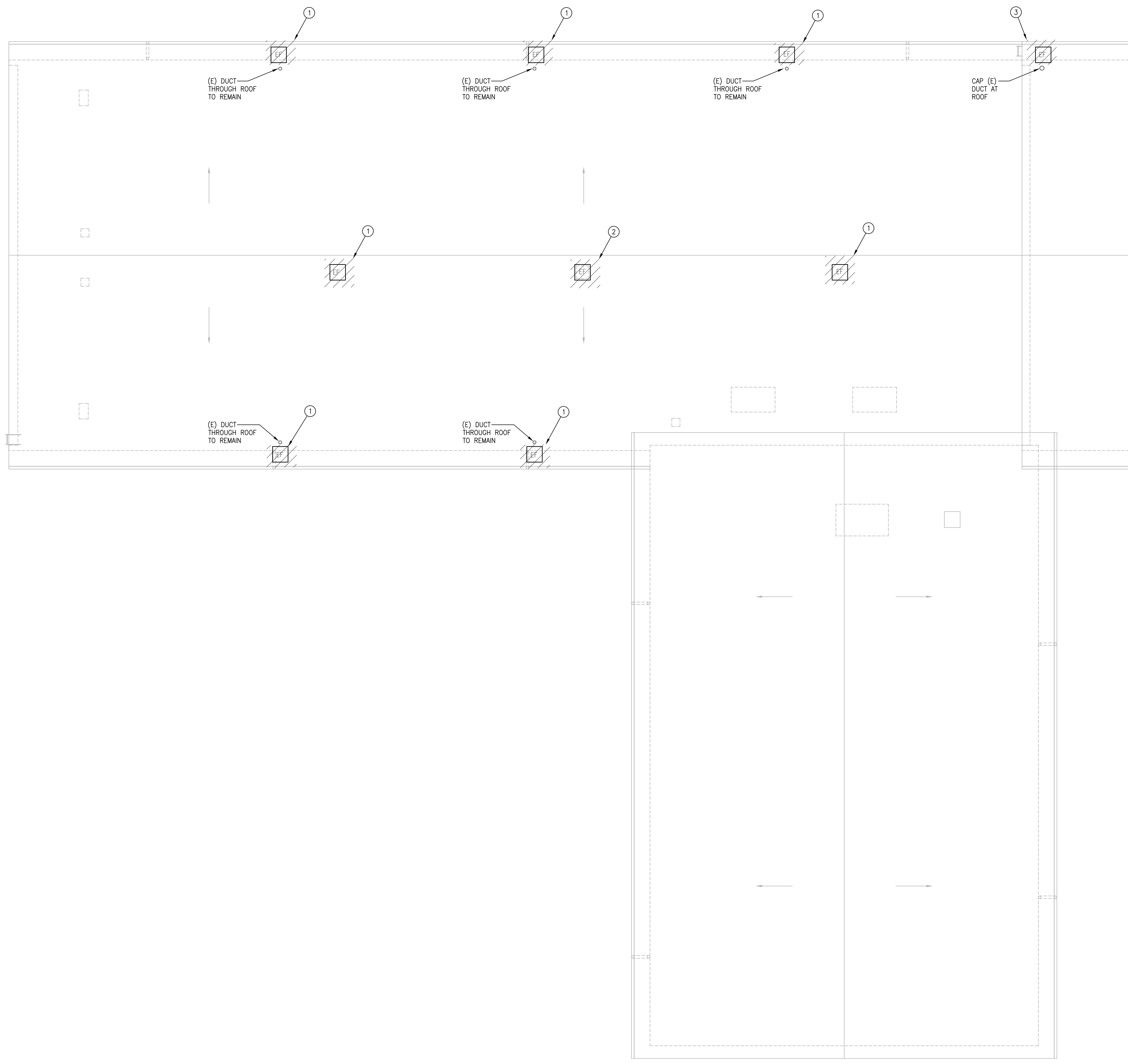
PROJECT: 18059.00 DATE: 5-2-18
DRAWN: RLM CHECKED: RCP

REVISIONS:

SHEET TITLE:
HVAC DEMO PLAN

SHEET:
M11B

ORIGINAL SHEET SIZE
30" x 42"



1 HVAC ROOF DEMO PLAN
SCALE 1/8" = 1'-0"

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- 1. DEMOLISH EXISTING FANS ON ROOF. CAP EXISTING OPENING WEATHERTIGHT.
- 2. DEMOLISH EXISTING FANS ON ROOF. REUSE EXISTING OPENING. SEE SHEET M23.
- 3. DEMOLISH EXISTING VEHICLE EXHAUST FAN ON ROOF. EXISTING DUCT THROUGH ROOF TO REMAIN.

MECHANICAL LEGEND:

	SUPPLY DIFFUSER		EA DUCT THRU ROOF OR FLOOR
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	SIDEWALL OR DOOR GRILLE		THERMOSTAT
	FLEX DUCT		REMOTE TEMPERATURE SENSOR
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EA	EXHAUST AIR	RE:	REFERENCE
EF	EXHAUST FAN	RG	RETURN AIR GRILLE
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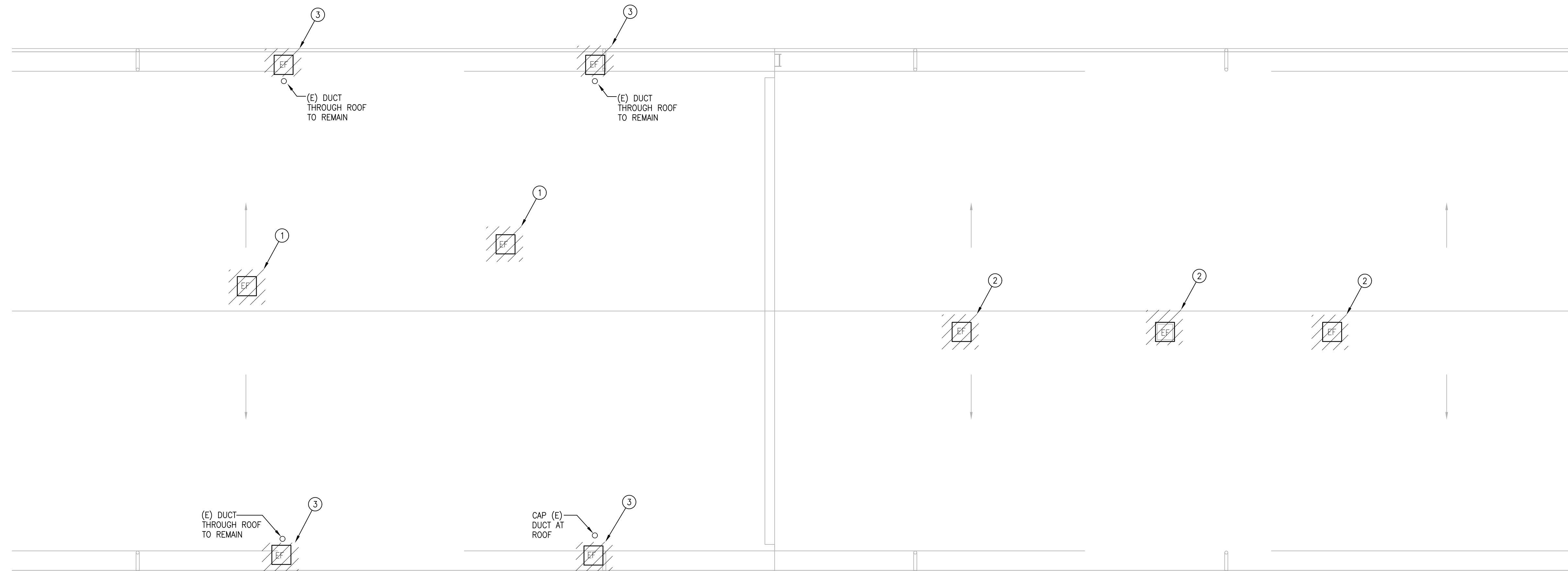
PROJECT	DATE
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RLM	RPC

REVISED

SHEET TITLE
HVAC ROOF DEMO PLAN

SHEET
M12A

ORIGINAL SHEET SIZE
30" x 42"



HVAC ROOF DEMO PLAN
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BOISE, ID 83702
(208) 343-4635 • FAX (208) 343-1838
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5800 COFFEY STREET
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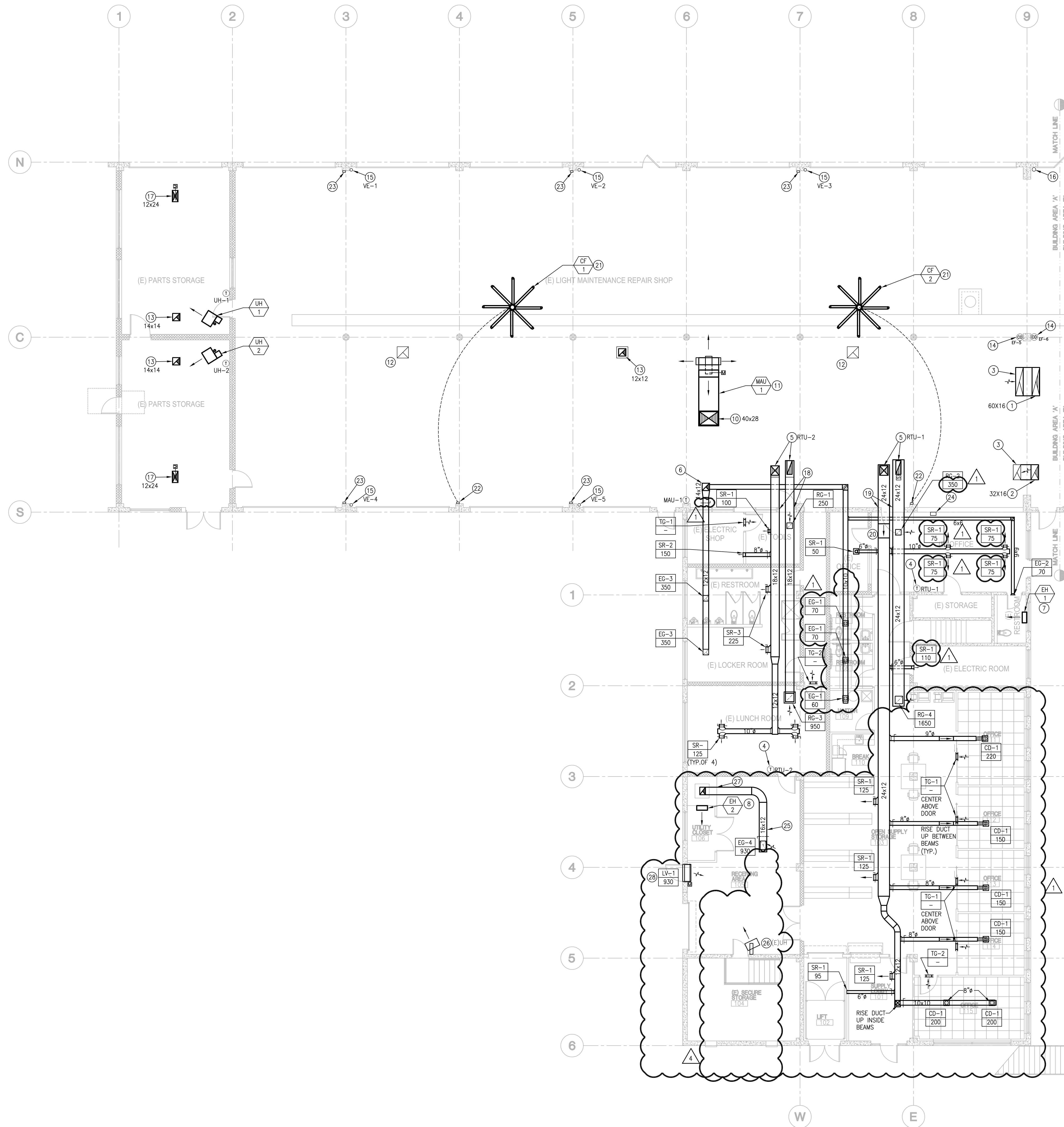
**FOR CONSTRUCTION
6/25/18**

PROJECT	DATE
18059.00	5-2-18
DRAWN	CHECKED
RLM	RCP

REVISED

SHEET TITLE
HVAC ROOF DEMO PLAN

SHEET
M12B
ORIGINAL SHEET SIZE
30" x 42"



1 HVAC FLOOR PLAN
SCALE 1/8" = 1'-0"

MECHANICAL GENERAL NOTES:

- A. ALL WORK SHALL COMPLY WITH THE OWNERS REQUIREMENTS, AND WITH ALL APPLICABLE STATE AND LOCAL CODES, OR AUTHORITY HAVING JURISDICTION.
- B. PROVIDE SEISMIC RESTRAINTS FOR ALL PIPING EQUIPMENT, AND DUCTWORK AS RECOMMENDED IN SMACNA "SEISMIC RESTRAINT MANUAL GUIDELINES FOR MECHANICAL EQUIPMENT", LATEST EDITION. CONSULT LOCAL SEISMIC CODES FOR THE SEISMIC RATING OF AN AREA IN WHICH THE PROJECT IS BEING BUILT.
- C. FOR LOW PRESSURE DUCTWORK, WHERE RECTANGULAR DUCT IS INDICATED ON PLANS, EQUIVALENT SIZE ROUND DUCT MAY BE USED. EQUIVALENT SIZE RECTANGULAR DUCT MAY BE USED IN PLACE OF ROUND DUCT EXCEPT IN EXPOSED AREAS. EQUIVALENT RECTANGULAR SIZE MAY NOT BE USED ON DUCTS EXPOSED TO VIEW OR AS INDICATED OTHERWISE.
- D. COORDINATE FINAL LOCATIONS OF DIFFUSERS, REGISTERS AND GRILLES WITH ARCHITECTURAL REFLECTED CEILING PLANS. CONTRACTOR SHALL NOT DEVIATE FROM REFLECTED CEILING PLAN UNLESS THERE ARE EXTENUATING JOB SITE CONDITIONS.
- E. DUCTWORK SIZES NOTED ON DRAWINGS ARE FREE AREA SIZES. HVAC CONTRACTOR SHALL BE RESPONSIBLE TO COMPENSATE FOR INSULATION, ETC.
- F. PROVIDE TURNING VANES IN ALL MITERED ELBOWS AND BULL HEAD TEES.
- G. PROVIDE ACCESS DOORS IN DUCTWORK FOR RESETTING OF FIRE/SMOKE DAMPERS WHERE INDICATED AND AS REQUIRED BY SPECIFICATIONS OR CODE.
- H. SUBSTITUTIONS OF EQUIPMENT OTHER THAN AS SPECIFIED SHALL BE THE COMPLETE RESPONSIBILITY OF THE HVAC CONTRACTOR. ANY ADDITIONAL ELECTRICAL, STRUCTURAL, MECHANICAL OR ARCHITECTURAL REQUIREMENTS SHALL BE PROVIDED AT NO ADDITIONAL EXPENSE TO OWNER.
- I. ALL WIRING, PIPING, AND EQUIPMENT IN ALL PLENUMS SHALL BE PLENUM RATED OR INSTALLED IN CONDUIT.
- J. COORDINATE INSTALLATION WITH THE WORK OF OTHER TRADES PRIOR TO STARTING. IN THE EVENT THAT CONFLICTS ARE FOUND WITH THE WORK OF OTHER TRADES, BRING ALL SUCH CONFLICTS TO THE ARCHITECT'S ATTENTION FOR RESOLUTION PRIOR TO PROCEEDING WITH THE WORK IN THAT AREA. DEFICIENCIES CAUSED BY FAILURE TO PERFORM SUCH VERIFICATIONS SHALL BE CORRECTED AT NO ADDITIONAL EXPENSE TO OWNER. IMMEDIATELY NOTIFY ARCHITECT OF CONDITIONS IN CONFLICT WITH THE PLANS.
- K. PRIOR TO BIDDING, OBTAIN A COPY OF THE PLANS, VISIT THE JOB SITE, TAKE ALL NECESSARY MEASUREMENTS, NOTE EXISTING CONDITIONS, AND GATHER ALL OTHER INFORMATION NEEDED FOR AN ACCURATE BID. ALLOWANCES WILL NOT BE MADE FOR EXTRA COSTS RESULTING FROM FAILURE TO NOTE EXISTING CONDITIONS.

SHEET NOTES:

- 1. EXHAUST DUCT DOWN AND TIGHT TO WALL OF HEAVY MAINTENANCE. FIELD VERIFY CLEARANCE BETWEEN CRANE STOP AND WALL. OFFSET DUCT UNDERNEATH LIGHT MAINTENANCE CEILING. HOLD BOTTOM OF DUCT 12" FROM FLOOR. SEE DETAILS SHEET M60 AND M61.
- 2. EXHAUST DUCT DOWN AND TIGHT TO WALL OF HEAVY MAINTENANCE. FIELD VERIFY CLEARANCE BETWEEN CRANE STOP AND WALL. OFFSET DUCT UNDERNEATH LIGHT MAINTENANCE CEILING. HOLD BOTTOM OF DUCT 12" FROM FLOOR. SEE DETAILS SHEET M60 AND M61.
- 3. COVER OPENING ON BOTTOM OF DUCT WITH 1/2" 16GBW GALVANIZED WIRE FABRIC.
- 4. INSTALL THERMOSTAT AT 48" A.F.F. PER ADA REQUIREMENTS.
- 5. SA AND RA DUCT FROM ROOF TOP UNIT (RTU). SEE SHEET M23A FOR CONTINUATION.
- 6. EXHAUST DUCT DOWN THROUGH ROOF. HOLD EXHAUST DUCT BRANCHES BELOW CEILING OF FIRST FLOOR OFFICES.
- 7. ELECTRIC WALL HEATER INSTALLED BELOW WINDOW IN SURFACE MOUNT ENCLOSURE.
- 8. ELECTRIC WALL HEATER INSTALLED ON WALL IN SURFACE MOUNT ENCLOSURE. INSTALL AT 24" A.F.F.
- 9. ELECTRIC HEATER SUSPENDED ON WALL WITH HEATER MOUNTING BRACKET. INSTALL AT 10'-0" A.F.F.
- 10. OSA DUCT DOWN THROUGH ROOF. CONNECT TO MAU PER MANUFACTURERS INSTRUCTIONS.
- 11. SUSPEND UNIT BELOW ROOF STRUCTURE PER MANUFACTURERS INSTRUCTIONS. VERIFY CLEARANCES REQUIRED BELOW UNIT FROM ALL OTHER EQUIPMENT PRIOR TO INSTALLATION.
- 12. CAP AND ABANDON EXISTING EXHAUST OPENING THROUGH ROOF FOR FUTURE REUSE.
- 13. EXHAUST DUCT DOWN THROUGH ROOF 12" BELOW CEILING. COVER OPENING WITH 1/2" 16GBW GALVANIZED WIRE FABRIC.
- 14. BRASCH MODEL GSE-NCM-LRO GAS DETECTOR AND EDWARDS SIGNALING MODEL 125STRM120A LOCAL STROBE, BOTH PROVIDED AND INSTALLED BY THE CONTROLS CONTRACTOR. MOUNT THE CONTROL 54" A.F.F. MOUNT THE STROBE 120" A.F.F. ON A 4" JUNCTION BOX.
- 15. EXISTING VEHICLE EXHAUST CONNECTION. SEE SHEET M23A FOR CONTINUATION.
- 16. EXISTING VEHICLE EXHAUST CONNECTION TO REMAIN. NO WORK REQUIRED.
- 17. INTAKE HOOD DUCT DOWN THROUGH ROOF 12" BELOW CEILING. COVER OPENING WITH 1/2" 16GBW GALVANIZED WIRE FABRIC. INTERLOCK WITH EF TO OPEN WHEN OPERATING.
- 18. HOLD DUCTS TIGHT TO TOP OF WINDOW OPENING THROUGH WALL.
- 19. DUCTS THROUGH CONCRETE WALL. HOLD DUCTS TIGHT TO BOTTOM OF CONCRETE JOISTS.
- 20. DROP BOTTOM OF DUCT 8'-0" A.F.F.
- 21. PROPELLER FAN SUSPENDED FROM STRUCTURE WITH MANUFACTURER STANDARD 2'-0" MOUNTING TUBE. MAINTAIN A MINIMUM OF 2'-0" CLEARANCE FROM ALL LIGHTS, AIR COMPRESSOR PIPING AND OTHER SUSPENDED ITEMS BELOW CEILING.
- 22. PROPELLER FAN WIRED WALL CONTROLLER MOUNTED ON WALL 54" A.F.F. EC TO PROVIDE CONDUIT AND WALL MOUNTED SINGLE GANG JUNCTION BOX BETWEEN CONTROLLER AND FANS. MC TO PROVIDE LOW VOLTAGE WIRING TO FAN.
- 23. VEHICLE EXHAUST FAN STARTER MOUNTED ON WALL 54" A.F.F. EC TO PROVIDE INTERCONNECT WIRING AND CONDUIT BETWEEN STARTER AND FAN.
- 24. TIMECLOCK TO START AND STOP GENERAL EXHAUST FANS EF-1 THRU EF-4 AND EF-7. SEE SHEET BM71 FOR CONTROL SCHEMATIC.
- 25. HOLD DUCT TIGHT TO BOTTOM OF CONCRETE BEAMS.
- 26. RELOCATE EXISTING HEATER FROM EXISTING PARTS STORAGE ROOM AND INSTALL AS SHOWN. INSTALL AT 10'-0" A.F.F.
- 27. DUCT THROUGH EXISTING CHIMNEY AND UP THROUGH EXISTING CHASE TO ABOVE. SEE M22 FOR CONTINUATION.
- 28. INTAKE LOUVER THROUGH WALL. COVER OPENING WITH 1/2" 16GBW GALVANIZED WIRE FABRIC. INTERLOCK WITH EF TO OPEN WHEN OPERATING.

MECHANICAL LEGEND:

	SUPPLY DIFFUSER		EA DUCT THRU ROOF OR FLOOR
	RETURN GRILLE		SA/OA DUCT THRU ROOF OR FLOOR
	EXHAUST GRILLE		ROUND DUCT THROUGH ROOF
	SIDEWALL OR DOOR GRILLE		THERMOSTAT
	FLEX DUCT		REMOTE TEMPERATURE SENSOR
	BALANCE DAMPER		SMOKE DETECTOR
	MECHANICAL EQUIPMENT		EQUIPMENT CALLOUT (STANDARD)
	ROOFTOP MECHANICAL EQUIPMENT		

CD	CEILING DIFFUSER	MIN	MINIMUM
CFM	CUBIC FEET PER MINUTE	NTS	NOT TO SCALE
(D)	DEMOLISH	OSD	OPPOSED BLADE DAMPER
DIA/#	DIAMETER	OSA	OUTSIDE AIR
(E)	EXISTING	(R)	RELOCATE
EA	EXHAUST AIR	(RE)	REFERENCE
EF	EXHAUST FAN	RG	RETURN AIR GRILLE
EXH	EXHAUST	SA	SUPPLY AIR
F	FAHRENHEIT	SP	STATIC PRESSURE
FFM	FEET PER MINUTE	TG	TRANSFER GRILLE
MAX	MAXIMUM	WC	WATER COLUMN



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PROJECT	DATE
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RLM	RCP

REVISED	
1	ADDENDUM NO. ONE 05-15-18
4	ADDENDUM NO. FIVE 06-06-18

SHEET TITLE
HVAC FLOOR PLAN

SHEET
M21A

ORIGINAL SHEET SIZE
30" x 42"



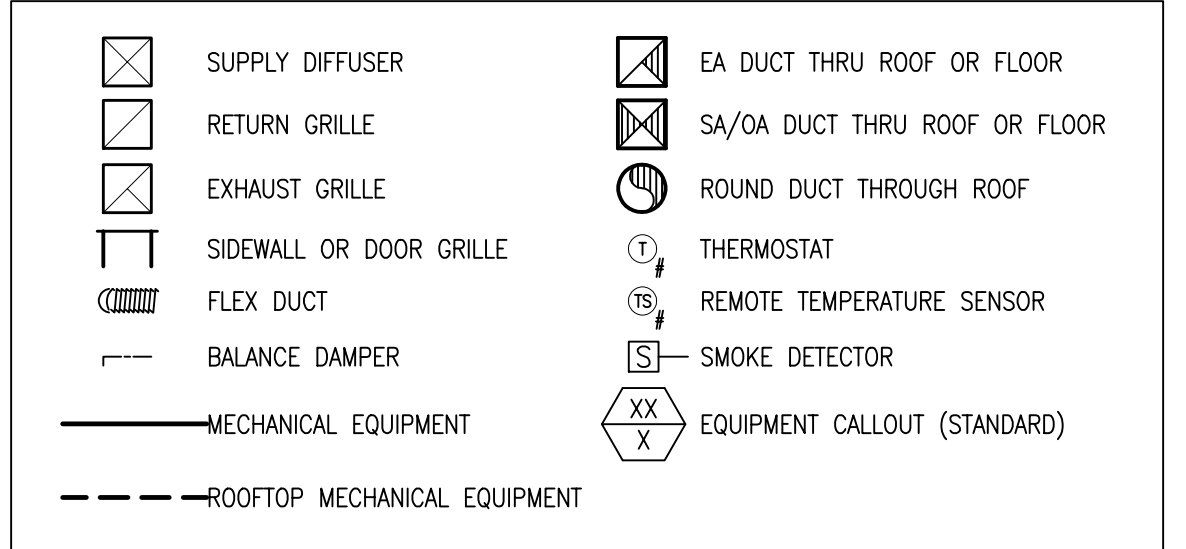
MECHANICAL GENERAL NOTES:

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- C. FOR LOW PRESSURE DUCTWORK, WHERE RECTANGULAR DUCT IS INDICATED ON PLANS, EQUIVALENT SIZE ROUND DUCT MAY BE USED. EQUIVALENT SIZE RECTANGULAR DUCT MAY BE USED IN PLACE OF ROUND DUCT, EXCEPT IN EXPOSED AREAS. EQUIVALENT RECTANGULAR SIZE MAY NOT BE USED ON DUCTS EXPOSED TO VIEW OR AS INDICATED OTHERWISE.
- D. COORDINATE FINAL LOCATIONS OF DIFFUSERS, REGISTERS AND GRILLES WITH ARCHITECTURAL REFLECTED CEILING PLANS. CONTRACTOR SHALL NOT DEVIATE FROM REFLECTED CEILING PLAN UNLESS THERE ARE EXTENUATING JOB SITE CONDITIONS.
- E. DUCTWORK SIZES NOTED ON DRAWINGS ARE FREE AREA SIZES. HVAC CONTRACTOR SHALL BE RESPONSIBLE TO COMPENSATE FOR INSULATION, ETC.
- F. ALL SQUARE SUPPLY DIFFUSERS SHALL BE 4-WAY THROW UNLESS INDICATED OTHERWISE ON PLAN.
- G. PROVIDE TURNING VANES IN ALL MITERED ELBOWS AND BULL HEAD TEES.
- H. PROVIDE ACCESS DOORS IN DUCTWORK FOR RESETTNG OF FIRE/SMOKE DAMPERS WHERE INDICATED AND AS REQUIRED BY SPECIFICATIONS OR CODE.
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- L. PRIOR TO BIDDING, OBTAIN A COPY OF THE PLANS, VISIT THE JOB SITE, TAKE ALL NECESSARY MEASUREMENTS, NOTE EXISTING CONDITIONS, AND GATHER ALL OTHER INFORMATION NEEDED FOR AN ACCURATE BID. ALLOWANCES WILL NOT BE MADE FOR EXTRA COSTS RESULTING FROM FAILURE TO NOTE EXISTING CONDITIONS.

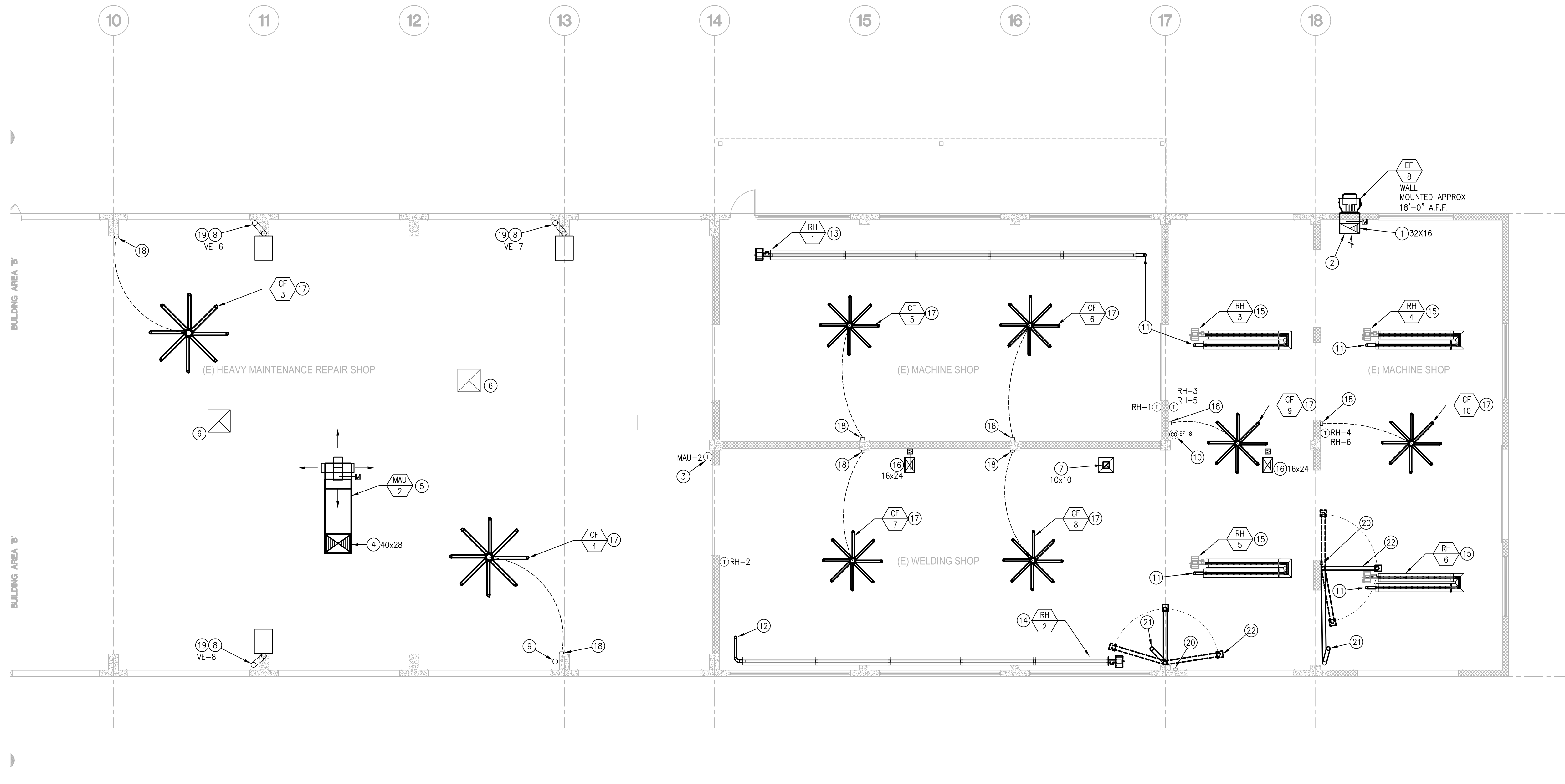
SHEET NOTES:

1. EXHAUST DUCT DOWN AND TIGHT TO WALL OF EXISTING ADDITION. FIELD VERIFY CLEARANCE BETWEEN CRANE STOP AND WALL. HOLD BOTTOM OF DUCT 12" FROM FLOOR.
2. COVER OPENING ON BOTTOM OF DUCT WITH 1/2", 16GBW GALVANIZED WIRE FABRIC.
3. INSTALL THERMOSTAT AT 48" A.F.F. PER ADA REQUIREMENTS.
4. OSA DUCT DOWN THROUGH ROOF. CONNECT TO MAU PER MANUFACTURERS INSTRUCTIONS.
5. SUSPEND UNIT BELOW ROOF STRUCTURE PER MANUFACTURERS INSTRUCTIONS. VERIFY CLEARANCES REQUIRED BELOW UNIT FROM ALL OTHER EQUIPMENT PRIOR TO INSTALLATION.
6. CAP AND ABANDON EXISTING EXHAUST OPENING THROUGH ROOF FOR FUTURE REUSE.
7. EXHAUST DUCT DOWN THROUGH ROOF 12" BELOW CEILING. COVER OPENING WITH 1/2", 16GBW GALVANIZED WIRE FABRIC.
8. EXISTING VEHICLE EXHAUST CONNECTION. SEE SHEET M23B FOR CONTINUATION.
9. EXISTING VEHICLE EXHAUST CONNECTION TO REMAIN. NO WORK REQUIRED.
10. BRASCH MODEL GSE-NCM-LRO GAS DETECTOR AND EDWARDS SIGNALING MODEL125STRN120A LOCAL STROBE. BOTH PROVIDED AND INSTALLED BY THE CONTROLS CONTRACTOR. MOUNT THE CONTROL 54" A.F.F. MOUNT THE STROBE 120" A.F.F. ON A 4" JUNCTION BOX.
11. 4" DIA. RADIANT HEATER FLUE UP THROUGH ROOF. SEE SHEET M23B FOR CONTINUATION.
12. 4" DIA. RADIANT HEATER FLUE UP THROUGH ROOF. COORDINATE INSTALLATION WITH CRANE RAIL ABOVE. SEE SHEET M23B FOR CONTINUATION.
13. INSTALL RADIANT HEATER APPROX. 18'-0" A.F.F. HEATER INSTALLED AT 0° ANGLE. VERIFY THAT MANUFACTURER CLEARANCES FROM COMBUSTIBLES WILL BE MAINTAINED.
14. INSTALL RADIANT HEATER BELOW CRANE RAIL APPROX. 14'-0" A.F.F. HEATER INSTALLED AT 45° ANGLE. VERIFY THAT MANUFACTURER CLEARANCES FROM COMBUSTIBLES WILL BE MAINTAINED.
15. INSTALL RADIANT HEATER APPROX 18'-0" A.F.F. COORDINATE MOUNTING ABOVE CRANE RAIL. CONTRACTOR SHALL INSTALL INSULATED HEAT SHIELD TO PROTECT CRANE MOTOR COMPONENTS (SEE DETAIL SHEET M50) HEATER INSTALLED AT 0° ANGLE. VERIFY THAT MANUFACTURER CLEARANCES FROM COMBUSTIBLES WILL BE MAINTAINED.
16. DUCT DOWN THROUGH EXISTING ROOF OPENING 12" BELOW CEILING. COVER OPENING WITH 1/2", 16GBW GALVANIZED WIRE FABRIC. INTERLOCK MOTORIZED DAMPER TO OPEN WHEN ANY EXHAUST FAN SERVING THE WELDING AREA IS IN OPERATION.
17. PROPELLER FAN SUSPENDED FROM STRUCTURE WITH MANUFACTURER STANDARD 2'-0" MOUNTING TUBE. MAINTAIN A MINIMUM OF 2'-0" CLEARANCE FROM ALL LIGHTS, AIR COMPRESSOR PIPING AND OTHER SUSPENDED ITEMS BELOW CEILING.
18. PROPELLER FAN WIRED WALL CONTROLLER MOUNTED ON WALL 54" A.F.F. EC TO PROVIDE CONDUIT AND WALL MOUNTED SINGLE GANG JUNCTION BOX BETWEEN CONTROLLER AND FANS. MC TO PROVIDE LOW VOLTAGE WIRING TO FAN.
19. EC SHALL CONNECT EXISTING VEHICLE EXHAUST FAN STARTER MOUNTED ON HOSE REEL TO NEW VEHICLE EXHAUST FAN ON ROOF. PROVIDE INTERCONNECT WIRING AND CONDUIT BETWEEN STARTER AND FAN.
20. WELDING EXHAUST FAN STARTER MOUNTED ON WALL 54" A.F.F. EC TO PROVIDE INTERCONNECT WIRING AND CONDUIT BETWEEN STARTER AND FAN.
21. 6" DIA. WELDING EXHAUST DUCT UP THROUGH ROOF. SEE SHEET M23B FOR CONTINUATION. VERIFY LOCATION OF DUCT ROUTING AND COORDINATE BETWEEN CRANE RAILS.
22. MOUNT WELDING ARM ON COLUMN WHERE SHOWN. COORDINATE HEIGHT ABOVE FLOOR WITH OWNER VERIFY CLEARANCES FROM OVERHEAD CRANE OPERATION ABOVE.

MECHANICAL LEGEND:



CD	CEILING DIFFUSER	MIN	MINIMUM
CFM	CUBIC FEET PER MINUTE	NTS	NOT TO SCALE
(D)	DEMOLISH	OSD	OPPOSED BLADE DAMPER
DIA/Ø	DIAMETER	OSA	OUTSIDE AIR
(E)	EXISTING	(R)	RELOCATE
EA	EXHAUST AIR	RE	REFERENCE
EF	EXHAUST FAN	RG	RETURN AIR GRILLE
EXH	EXHAUST	SA	SUPPLY AIR
F	FAHRENHEIT	SP	STATIC PRESSURE
FPM	FEET PER MINUTE	TG	TRANSFER GRILLE
MAX	MAXIMUM	WC	WATER COLUMN



1 HVAC FLOOR PLAN
SCALE 1/8" = 1'-0"



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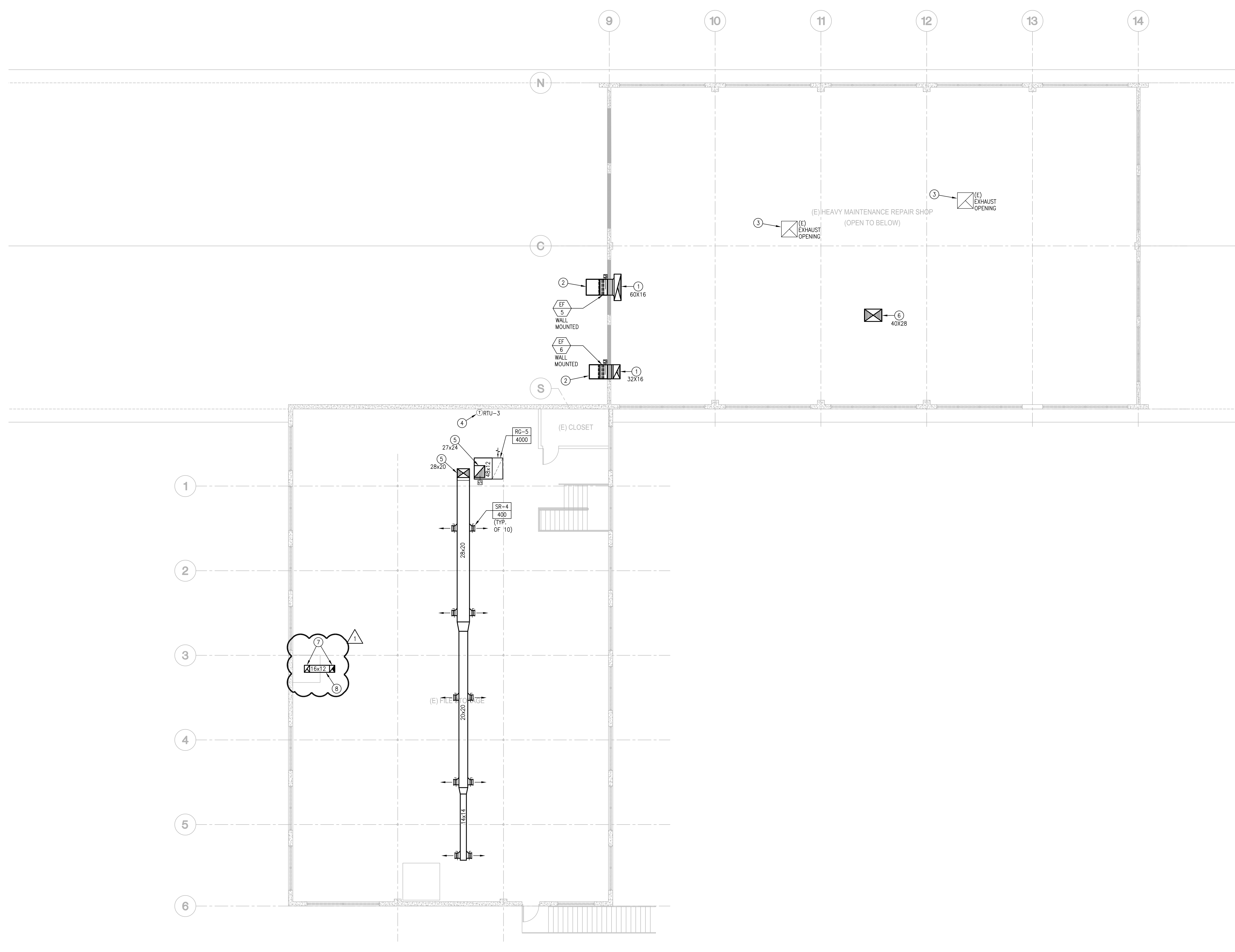
SHEET TITLE

HVAC FLOOR PLAN

SHEET

M21B

ORIGINAL SHEET SIZE
30" x 42"



HVAC PLAN SECOND FLOOR
SCALE 1/8" = 1'-0"

MECHANICAL GENERAL NOTES:

- A. ALL WORK SHALL COMPLY WITH THE OWNERS REQUIREMENTS, AND WITH ALL APPLICABLE STATE AND LOCAL CODES, OR AUTHORITY HAVING JURISDICTION.
- B. PROVIDE SEISMIC RESTRAINTS FOR ALL PIPING EQUIPMENT, AND DUCTWORK AS RECOMMENDED IN SMACNA "SEISMIC RESTRAINT MANUAL GUIDELINES FOR MECHANICAL EQUIPMENT", LATEST EDITION. CONSULT LOCAL SEISMIC CODES FOR THE SEISMIC RATING OF AN AREA IN WHICH THE PROJECT IS BEING BUILT.
- C. FOR LOW PRESSURE DUCTWORK, WHERE RECTANGULAR DUCT IS INDICATED ON PLANS, EQUIVALENT SIZE ROUND DUCT MAY BE USED. EQUIVALENT SIZE RECTANGULAR DUCT MAY BE USED IN PLACE OF ROUND DUCT, EXCEPT IN EXPOSED AREAS. EQUIVALENT RECTANGULAR SIZE MAY NOT BE USED ON DUCTS EXPOSED TO VIEW OR AS INDICATED OTHERWISE.
- D. COORDINATE FINAL LOCATIONS OF DIFFUSERS, REGISTERS AND GRILLES WITH ARCHITECTURAL REFLECTED CEILING PLANS. CONTRACTOR SHALL NOT DEVIATE FROM REFLECTED CEILING PLAN UNLESS THERE ARE EXTENUATING JOB SITE CONDITIONS.
- E. DUCTWORK SIZES NOTED ON DRAWINGS ARE FREE AREA SIZES. HVAC CONTRACTOR SHALL BE RESPONSIBLE TO COMPENSATE FOR INSULATION, ETC.
- F. PROVIDE TURNING VANES IN ALL MITERED ELBOWS AND BULL HEAD TEES.
- G. PROVIDE ACCESS DOORS IN DUCTWORK FOR RESETTING OF FIRE/SMOKE DAMPERS WHERE INDICATED AND AS REQUIRED BY SPECIFICATIONS OR CODE.
- H. SUBSTITUTIONS OF EQUIPMENT OTHER THAN AS SPECIFIED SHALL BE THE COMPLETE RESPONSIBILITY OF THE HVAC CONTRACTOR. ANY ADDITIONAL ELECTRICAL, STRUCTURAL, MECHANICAL OR ARCHITECTURAL REQUIREMENTS SHALL BE PROVIDED AT NO ADDITIONAL EXPENSE TO OWNER.
- I. ALL WIRING, PIPING, AND EQUIPMENT IN ALL PLENUMS SHALL BE PLENUM RATED OR INSTALLED IN CONDUIT.
- J. COORDINATE INSTALLATION WITH THE WORK OF OTHER TRADES PRIOR TO STARTING. IN THE EVENT THAT CONFLICTS ARE FOUND WITH THE WORK OF OTHER TRADES, BRING ALL SUCH CONFLICTS TO THE ARCHITECT'S ATTENTION FOR RESOLUTION PRIOR TO PROCEEDING WITH THE WORK IN THAT AREA. DEFICIENCIES CAUSED BY FAILURE TO PERFORM SUCH VERIFICATIONS SHALL BE CORRECTED AT NO ADDITIONAL EXPENSE TO OWNER. IMMEDIATELY NOTIFY ARCHITECT OF CONDITIONS IN CONFLICT WITH THE PLANS.
- K. PRIOR TO BIDDING, OBTAIN A COPY OF THE PLANS, VISIT THE JOB SITE, TAKE ALL NECESSARY MEASUREMENTS, NOTE EXISTING CONDITIONS, AND GATHER ALL OTHER INFORMATION NEEDED FOR AN ACCURATE BID. ALLOWANCES WILL NOT BE MADE FOR EXTRA COSTS RESULTING FROM FAILURE TO NOTE EXISTING CONDITIONS.

SHEET NOTES:

- 1. EXHAUST DUCT DOWN TO FLOOR LEVEL BELOW. SEE SHEET M21 FOR CONTINUATION.
- 2. INSTALL EXHAUST FAN ON HIGH WALL THROUGH EXISTING OPENING. BOTTOM OF FAN SHALL BE INSTALLED A MINIMUM OF 3FT ABOVE ROOF LINE.
- 3. ABANDON EXISTING EXHAUST OPENING THROUGH ROOF FOR FUTURE REUSE.
- 4. INSTALL THERMOSTAT AT 48" A.F.F. PER ADA REQUIREMENTS.
- 5. SA AND RA DUCT FROM ROOF TOP UNIT (RTU). SEE SHEET M23A FOR CONTINUATION.
- 6. OSA DUCT DOWN THROUGH ROOF, CONNECT TO MAU. SEE SHEET M21B FOR CONTINUATION.
- 7. FURNISH RADIUS ELBOW FITTINGS.
- 8. EXHAUST DUCT UP THROUGH EXISTING CHIMNEY SPACE. HOLD DUCT TIGHT TO BOTTOM OF SECOND FLOOR CEILING AS POSSIBLE BEFORE TURNING UP THROUGH ROOF. SEE M23 FOR CONTINUATION.

MECHANICAL LEGEND:

	SUPPLY DIFFUSER		EA DUCT THRU ROOF OR FLOOR
	RETURN GRILLE		SA/OA DUCT THRU ROOF OR FLOOR
	EXHAUST GRILLE		ROUND DUCT THROUGH ROOF
	SIDEWALL OR DOOR GRILLE		THERMOSTAT
	FLEX DUCT		REMOTE TEMPERATURE SENSOR
	BALANCE DAMPER		SMOKE DETECTOR
	MECHANICAL EQUIPMENT		EQUIPMENT CALLOUT (STANDARD)
	ROOFTOP MECHANICAL EQUIPMENT		

CD	CEILING DIFFUSER	MIN	MINIMUM
CFM	CUBIC FEET PER MINUTE	NTS	NOT TO SCALE
(D)	DEMOLISH	OSD	OPPOSED BLADE DAMPER
DIA/φ	DIAMETER	OSA	OUTSIDE AIR
(E)	EXISTING	(R)	RELOCATE
EA	EXHAUST AIR	RE:	REFERENCE
EF	EXHAUST FAN	RG	RETURN AIR GRILLE
EXH	EXHAUST	SA	SUPPLY AIR
F	FAHRENHEIT	SP	STATIC PRESSURE
FPM	FEET PER MINUTE	TG	TRANSFER GRILLE
MAX	MAXIMUM	WC	WATER COLUMN



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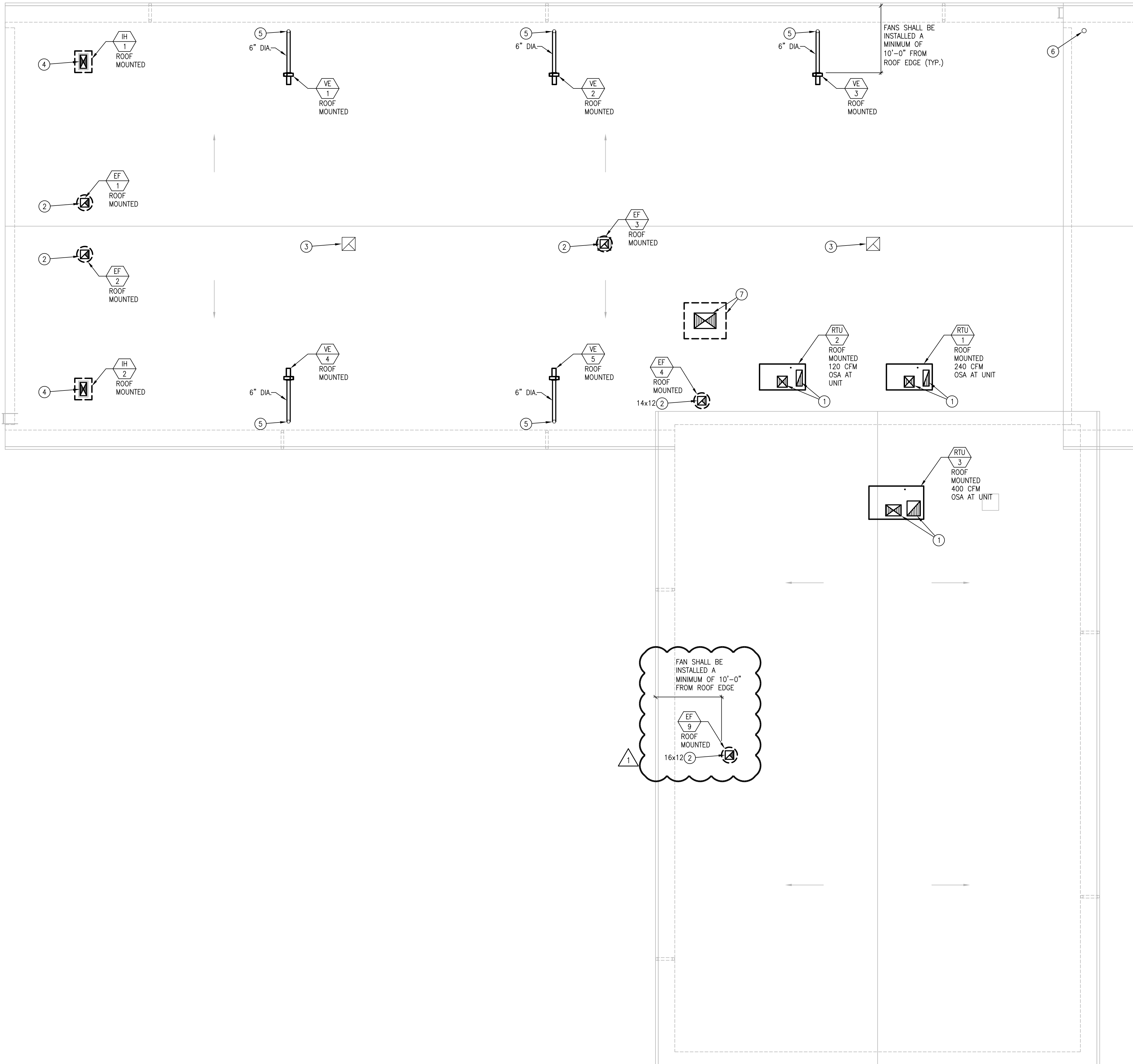
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REVISED
1 ADDENDUM NO. ONE
05-15-18

SHEET TITLE
**2ND FLOOR
HVAC
PLAN**

SHEET
M22
ORIGINAL SHEET SIZE
30" x 42"



1 HVAC ROOF PLAN
SCALE 1/8" = 1'-0"

MECHANICAL GENERAL NOTES:

- A. ALL WORK SHALL COMPLY WITH THE OWNERS REQUIREMENTS, AND WITH ALL APPLICABLE STATE AND LOCAL CODES, OR AUTHORITY HAVING JURISDICTION.
- B. PROVIDE SEISMIC RESTRAINTS FOR ALL PIPING EQUIPMENT, AND DUCTWORK AS RECOMMENDED IN SMACNA "SEISMIC RESTRAINT MANUAL GUIDELINES FOR MECHANICAL EQUIPMENT", LATEST EDITION. CONSULT LOCAL SEISMIC CODES FOR THE SEISMIC RATING OF AN AREA IN WHICH THE PROJECT IS BEING BUILT.
- C. SUBSTITUTIONS OF EQUIPMENT OTHER THAN AS SPECIFIED SHALL BE THE COMPLETE RESPONSIBILITY OF THE HVAC CONTRACTOR. ANY ADDITIONAL ELECTRICAL, STRUCTURAL, MECHANICAL OR ARCHITECTURAL REQUIREMENTS SHALL BE PROVIDED AT NO ADDITIONAL EXPENSE TO OWNER.
- D. COORDINATE INSTALLATION WITH THE WORK OF OTHER TRADES PRIOR TO STARTING. IN THE EVENT THAT CONFLICTS ARE FOUND WITH THE WORK OF OTHER TRADES, BRING ALL SUCH CONFLICTS TO THE ARCHITECT'S ATTENTION FOR RESOLUTION PRIOR TO PROCEEDING WITH THE WORK IN THAT AREA. DEFICIENCIES CAUSED BY FAILURE TO PERFORM SUCH VERIFICATIONS SHALL BE CORRECTED AT NO ADDITIONAL EXPENSE TO OWNER. IMMEDIATELY NOTIFY ARCHITECT OF CONDITIONS IN CONFLICT WITH THE PLANS.
- E. PRIOR TO BIDDING, OBTAIN A COPY OF THE PLANS, VISIT THE JOB SITE, TAKE ALL NECESSARY MEASUREMENTS, NOTE EXISTING CONDITIONS, AND GATHER ALL OTHER INFORMATION NEEDED FOR AN ACCURATE BID. ALLOWANCES WILL NOT BE MADE FOR EXTRA COSTS RESULTING FROM FAILURE TO NOTE EXISTING CONDITIONS.

SHEET NOTES:

- 1. SA AND RA DUCT DOWN FROM ROOF TOP UNIT (RTU). PROVIDE DUCT TRANSITIONING AS NECESSARY FROM RTU CURB. SEE SHEET M21A FOR RTU MOUNTING DETAIL. SEE SHEET M21A AND M23 FOR CONTINUATION.
- 2. EXHAUST DUCT DOWN THROUGH ROOF. SEE SHEET M21A FOR CONTINUATION.
- 3. CAP AND ABANDON EXISTING EXHAUST OPENING THROUGH ROOF FOR FUTURE REUSE.
- 4. INTAKE HOOD DUCT DOWN THROUGH ROOF. SEE SHEET M21A FOR CONTINUATION.
- 5. CONNECT NEW VEHICLE EXHAUST DUCT TO EXISTING VEHICLE EXHAUST DUCT THROUGH ROOF. VERIFY SIZE IN FIELD AND PROVIDE TRANSITION TO NEW DUCT SIZE.
- 6. CAP EXISTING VEHICLE EXHAUST DUCT THROUGH ROOF.
- 7. OSA INTAKE HOOD FURNISHED WITH HEATING AND VENTILATING UNIT MAU-1. OSA INTAKE DUCT DOWN THROUGH ROOF. SEE SHEET M21A FOR CONTINUATION.

MECHANICAL LEGEND:

	SUPPLY DIFFUSER		EA DUCT THRU ROOF OR FLOOR
	RETURN GRILLE		SA/OA DUCT THRU ROOF OR FLOOR
	EXHAUST GRILLE		ROUND DUCT THROUGH ROOF
	SIDEWALL OR DOOR GRILLE		THERMOSTAT
	FLEX DUCT		REMOTE TEMPERATURE SENSOR
	BALANCE DAMPER		SMOKE DETECTOR
	MECHANICAL EQUIPMENT		EQUIPMENT CALLOUT (STANDARD)
	ROOFTOP MECHANICAL EQUIPMENT		

CD	CEILING DIFFUSER	MIN	MINIMUM
CFM	CUBIC FEET PER MINUTE	NTS	NOT TO SCALE
(D)	DEMOLISH	OSB	OPPOSED BLADE DAMPER
DIA./ø	DIAMETER	OSA	OUTSIDE AIR
(E)	EXISTING	(R)	RELOCATE
EA	EXHAUST AIR	RE-	REFERENCE
EF	EXHAUST FAN	RG	RETURN AIR GRILLE
EXH	EXHAUST	SA	SUPPLY AIR
F	FAHRENHEIT	SP	STATIC PRESSURE
FFM	FEET PER MINUTE	TG	TRANSFER GRILLE
MAX	MAXIMUM	WC	WATER COLUMN



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5800 COFFEY STREET
GARDEN CITY, ID**

CSHOA

**FOR CONSTRUCTION
6/25/18**

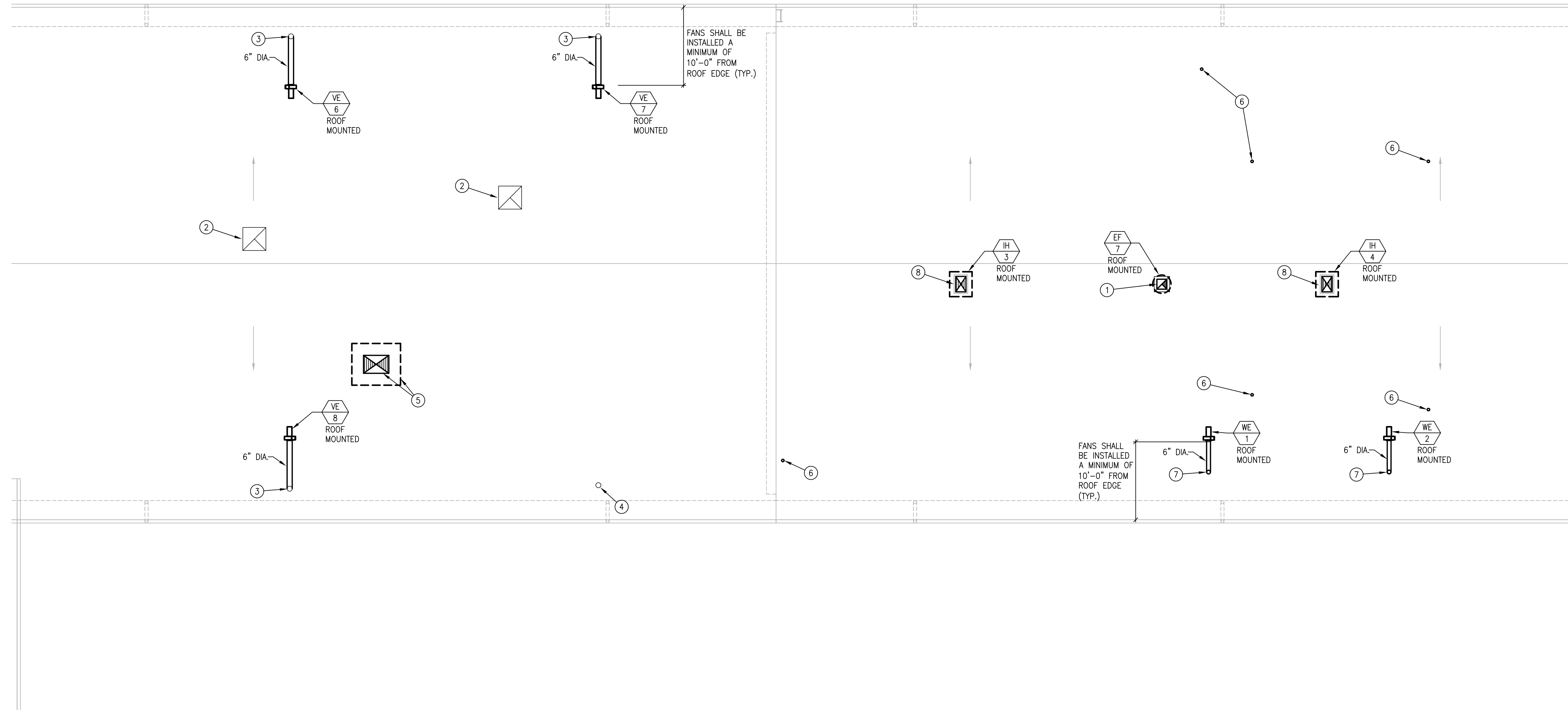
PROJECT	18059.00	DATE	5-2-18
DRAWN	RLM	CHECKED	RCP

REVISED
1 ADDENDUM NO. ONE
05-15-18

SHEET TITLE
**HVAC
ROOF
PLAN**

SHEET
M23A

ORIGINAL SHEET SIZE
30" x 42"



HVAC ROOF PLAN
SCALE 1/8" = 1'-0"

MECHANICAL GENERAL NOTES:

- A. ALL WORK SHALL COMPLY WITH THE OWNERS REQUIREMENTS, AND WITH ALL APPLICABLE STATE AND LOCAL CODES, OR AUTHORITY HAVING JURISDICTION.
- B. PROVIDE SEISMIC RESTRAINTS FOR ALL PIPING EQUIPMENT, AND DUCTWORK AS RECOMMENDED IN SMACNA "SEISMIC RESTRAINT MANUAL GUIDELINES FOR MECHANICAL EQUIPMENT", LATEST EDITION. CONSULT LOCAL SEISMIC CODES FOR THE SEISMIC RATING OF AN AREA IN WHICH THE PROJECT IS BEING BUILT.
- C. SUBSTITUTIONS OF EQUIPMENT OTHER THAN AS SPECIFIED SHALL BE THE COMPLETE RESPONSIBILITY OF THE HVAC CONTRACTOR. ANY ADDITIONAL ELECTRICAL, STRUCTURAL, MECHANICAL OR ARCHITECTURAL REQUIREMENTS SHALL BE PROVIDED AT NO ADDITIONAL EXPENSE TO OWNER.
- D. COORDINATE INSTALLATION WITH THE WORK OF OTHER TRADES PRIOR TO STARTING. IN THE EVENT THAT CONFLICTS ARE FOUND WITH THE WORK OF OTHER TRADES, BRING ALL SUCH CONFLICTS TO THE ARCHITECT'S ATTENTION FOR RESOLUTION PRIOR TO PROCEEDING WITH THE WORK IN THAT AREA. DEFICIENCIES CAUSED BY FAILURE TO PERFORM SUCH VERIFICATIONS SHALL BE CORRECTED AT NO ADDITIONAL EXPENSE TO OWNER. IMMEDIATELY NOTIFY ARCHITECT OF CONDITIONS IN CONFLICT WITH THE PLANS.
- E. PRIOR TO BIDDING, OBTAIN A COPY OF THE PLANS, VISIT THE JOB SITE, TAKE ALL NECESSARY MEASUREMENTS, NOTE EXISTING CONDITIONS, AND GATHER ALL OTHER INFORMATION NEEDED FOR AN ACCURATE BID. ALLOWANCES WILL NOT BE MADE FOR EXTRA COSTS RESULTING FROM FAILURE TO NOTE EXISTING CONDITIONS.

SHEET NOTES:

- 1. EXHAUST DUCT DOWN THROUGH ROOF. SEE SHEET M21B FOR CONTINUATION.
- 2. CAP AND ABANDON EXISTING EXHAUST OPENING THROUGH ROOF FOR FUTURE REUSE.
- 3. CONNECT NEW VEHICLE EXHAUST DUCT TO EXISTING VEHICLE EXHAUST DUCT THROUGH ROOF. VERIFY SIZE IN FIELD AND PROVIDE TRANSITION TO NEW DUCT SIZE.
- 4. CAP EXISTING VEHICLE EXHAUST DUCT THROUGH ROOF.
- 5. OSA INTAKE HOOD FURNISHED WITH HEATING AND VENTILATING UNIT MAU-2. OSA INTAKE DUCT DOWN THROUGH ROOF. SEE SHEET M21A FOR CONTINUATION.
- 6. 4" DIA. FLUE FROM IR HEATER. FOLLOW MANUFACTURER INSTRUCTIONS FOR INSTALLATION. SEE GAS FLUE THROUGH ROOF DETAIL SHEET M60.
- 7. WELDING EXHAUST DUCT THROUGH ROOF TO WELDING EXHAUST FAN. SEE DETAIL SHEET M60.
- 8. INTAKE HOOD DUCT DOWN THROUGH EXISTING OPENING IN ROOF. SEE SHEET M21B FOR CONTINUATION.

MECHANICAL LEGEND:

	SUPPLY DIFFUSER		EA DUCT THRU ROOF OR FLOOR
	RETURN GRILLE		SA/OA DUCT THRU ROOF OR FLOOR
	EXHAUST GRILLE		ROUND DUCT THROUGH ROOF
	SIDEWALL OR DOOR GRILLE		THERMOSTAT
	FLEX DUCT		REMOTE TEMPERATURE SENSOR
	BALANCE DAMPER		SMOKE DETECTOR
	MECHANICAL EQUIPMENT		EQUIPMENT CALLOUT (STANDARD)
	ROOFTOP MECHANICAL EQUIPMENT		

CD	CEILING DIFFUSER	MIN	MINIMUM
CFM	CUBIC FEET PER MINUTE	NIS	NOT TO SCALE
(D)	DEMOLISH	OBD	OPPOSED BLADE DAMPER
DIA/#	DIAMETER	OSA	OUTSIDE AIR
(E)	EXISTING	(R)	RELOCATE
EA	EXHAUST AIR	RE:	REFERENCE
EF	EXHAUST FAN	RG	RETURN AIR GRILLE
EXH	EXHAUST	SA	SUPPLY AIR
F	FAHRENHEIT	SP	STATIC PRESSURE
FPM	FEET PER MINUTE	TG	TRANSFER GRILLE
MAX	MAXIMUM	WC	WATER COLUMN



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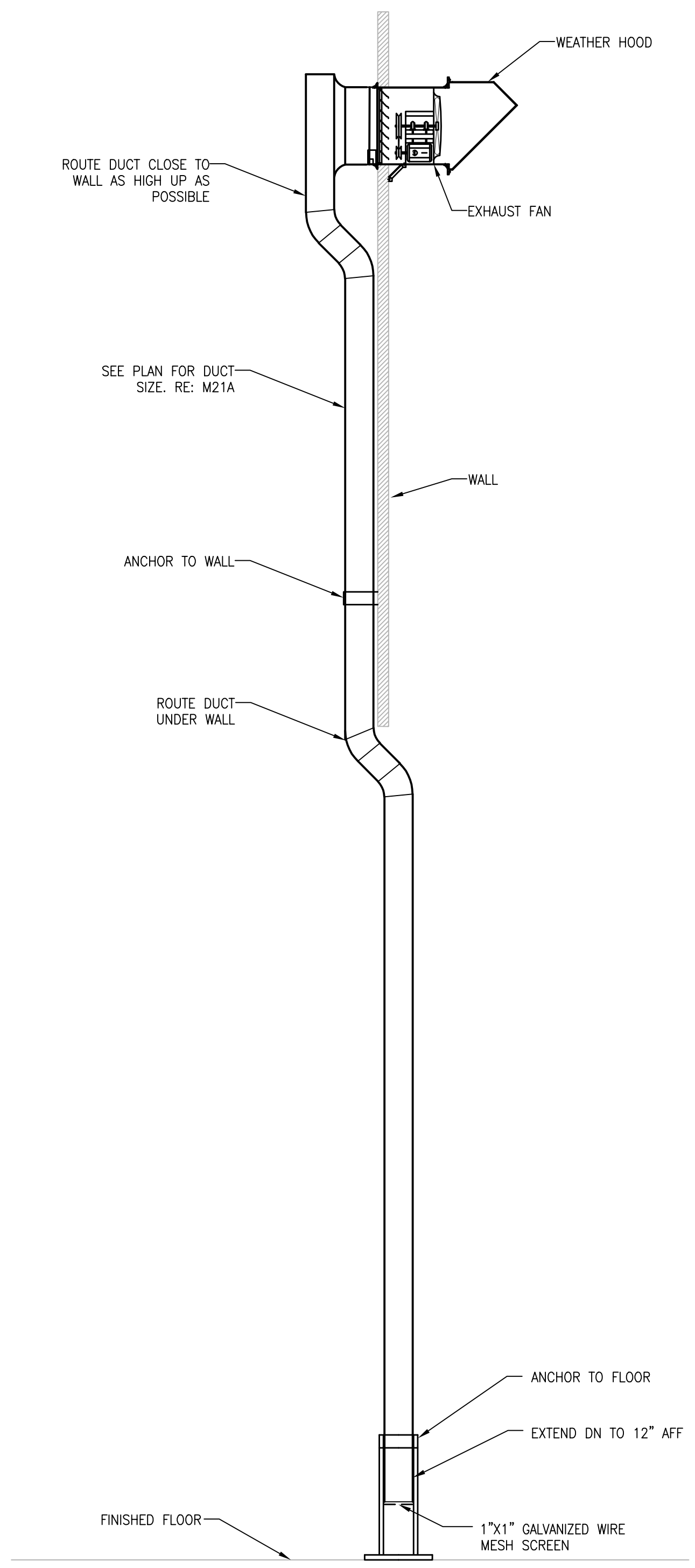
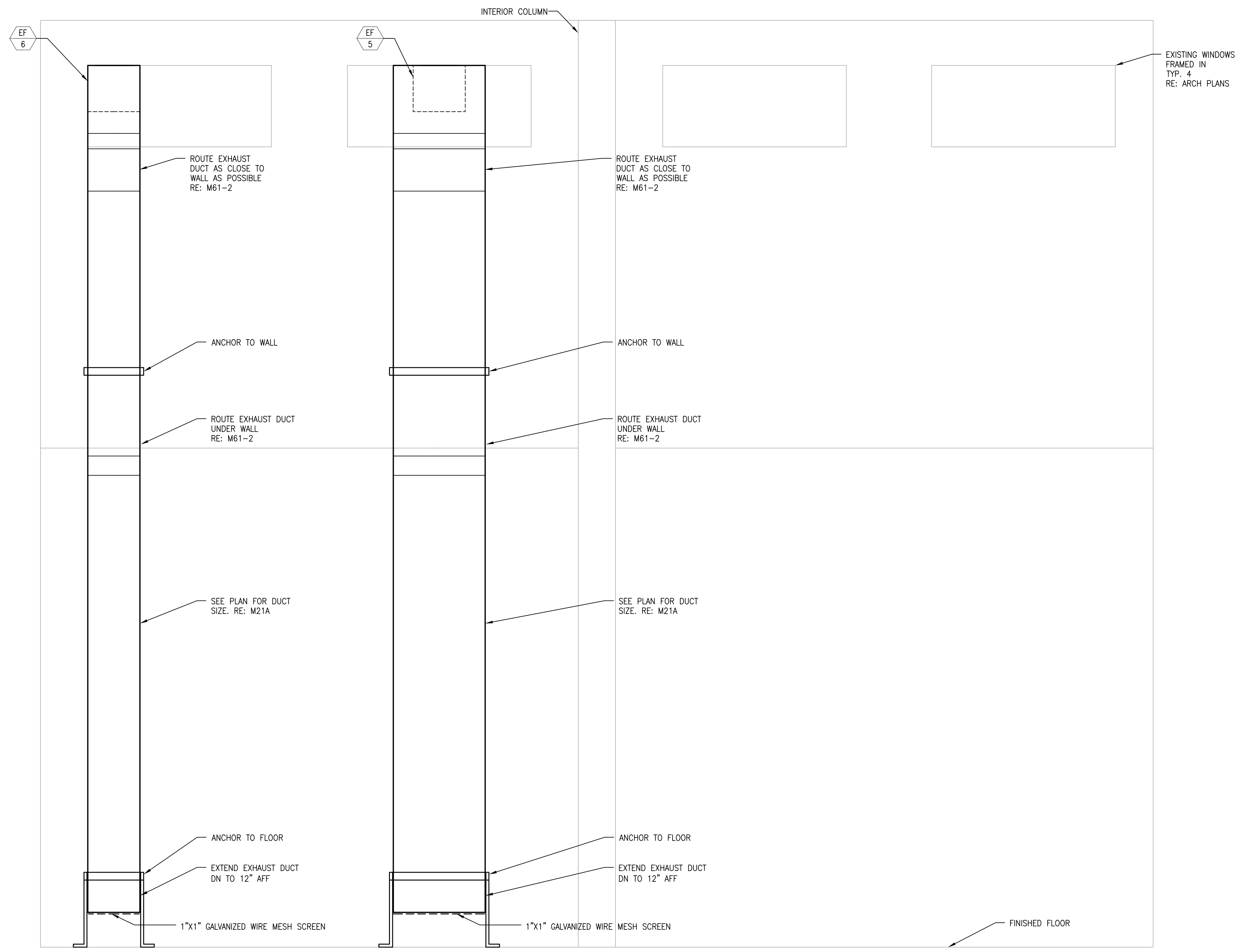
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**FOR CONSTRUCTION
6/25/18**

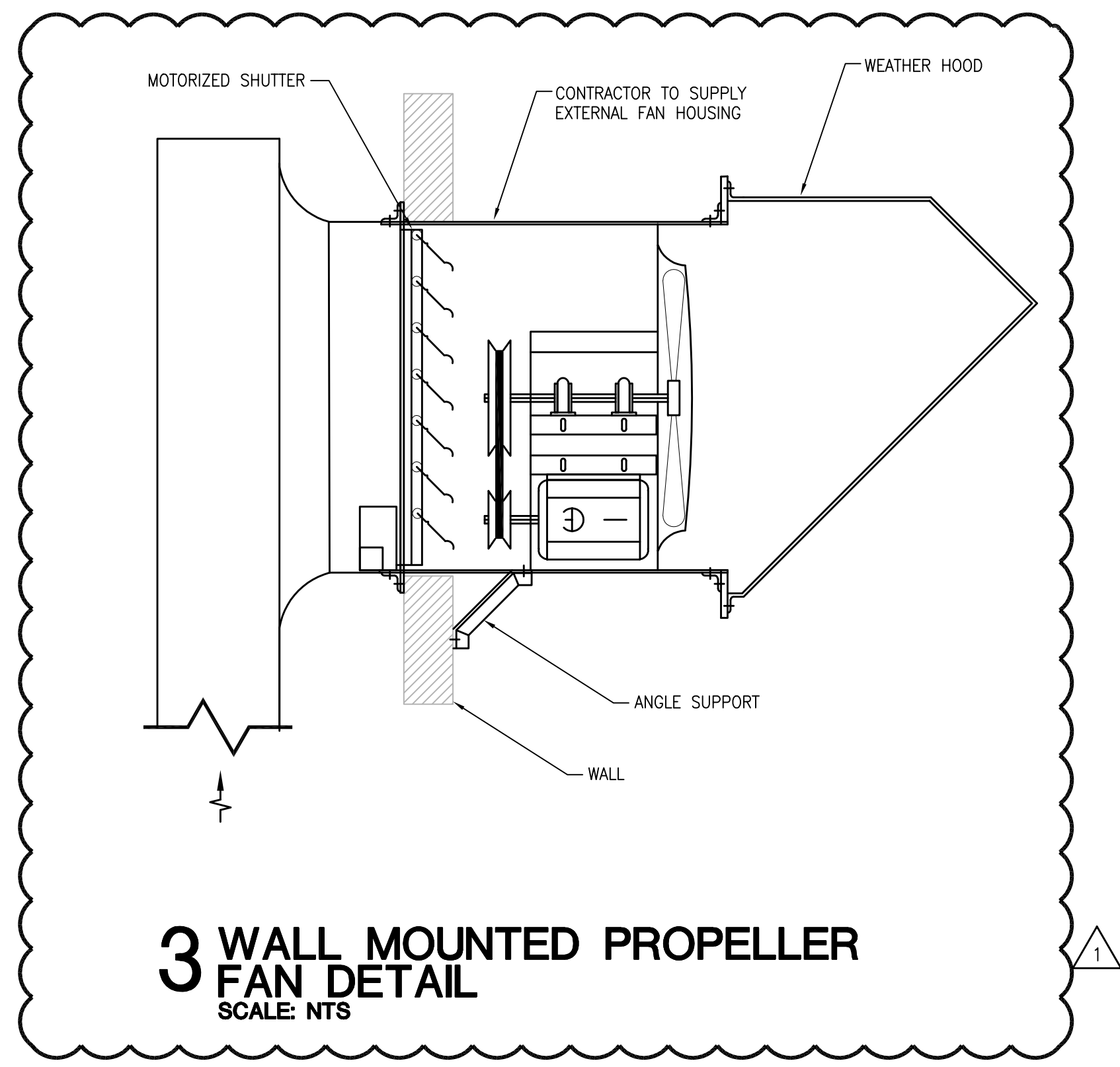
PROJECT	18059.00	DATE	5-2-18
DRAWN	RLM	CHECKED	RCP

SHEET TITLE
**HVAC
ROOF
PLAN**

SHEET
M23B
ORIGINAL SHEET SIZE
30" x 42"



1 WALL MOUNTED EXHAUST FAN DUCT ROUTING SECTION
SCALE: NTS



3 WALL MOUNTED PROPELLER FAN DETAIL
SCALE: NTS

2 WALL MOUNTED EXHAUST FAN DUCT ROUTING SECTION
SCALE: NTS



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FOR CONSTRUCTION
6/25/18

PROJECT	DATE
18059.00	5-2-18
DRAWN	CHECKED
RLM	RCP

REVISED	ADDENDUM NO. ONE
1	05-15-18

SHEET TITLE
HVAC DETAILS

SHEET
M61

ORIGINAL SHEET SIZE
30" x 42"



DIRECT GAS FIRED BLOW-THRU SPACE HEATER SCHEDULE

MARK	BASIS OF DESIGN		LOCATION	AREA AND/OR BLDG SERVED	TYPE	INPUT MBH	OUTPUT MBH	NAT. GAS INLET SIZE IN	TEMPERATURES		SUPPLY CFM	MOTOR HP	VOLTS/PHASE	HEATER FLA	WEIGHT	REMARKS
	MANUFACTURER	MODEL NUMBER							EAT (F°)	LAT (F°)						
MAU-1	CAMBRIDGE	S1200	UNDER ROOF INTERIOR	HEAVY MAINTENANCE	100% OSA DIRECT FIRED	1062	977	1-1/4	2	160	5400	3	208/3	12.0	1150	1
MAU-2	CAMBRIDGE	S1200	UNDER ROOF INTERIOR	LIGHT MAINTENANCE	100% OSA DIRECT FIRED	1062	977	1-1/4	2	160	5400	3	208/3	12.0	1150	1

REMARKS:
1. FURNISH WITH UNDER ROOF MOUNTING PACKAGE, INTAKE HOOD, ROOF CURB, MOTORIZED DAMPER, AND TSS CONTROLLER.

ROOFTOP AIR CONDITIONING UNITS GAS/ELECTRIC

MARK	BASIS OF DESIGN		LOCATION	AREA AND/OR BLDG SERVED	TYPE	COOLING CAPACITY										HEATING CAPACITY				ELECTRICAL DATA				REMARKS
	MANUFACTURER	MODEL NUMBER				TOTAL SUPPLY AIR FLOW	MIN. OUTSIDE AIR FLOW	EXT. STATIC PRESSURE	MIN. TOTAL CAPACITY	MIN. SENS. CAPACITY	MIN. SEER	EAT		OSA DESIGN TEMP	GAS MIN. INPUT (LOW/HIGH)	MIN. NET OUTPUT (LOW/HIGH)	EAT Db	LAT Db	AIR FILTER	INDOOR FAN	UNIT POWER CONNECTION			
												Db	Wb								HP	MCA	PHASE	
RTU-1	LENNOX INDUSTRIES INC.	KGB06054B	ROOF	1ST FLOOR, EAST SIDE	PACKAGED ROOFTOP	2000	335	0.6	53.0	50.4	14	80	62	96	81 / 108	65 / 86	63.7	90.6	MERV 8	1	24	3	208	1, 2, 3, 4
RTU-2	LENNOX INDUSTRIES INC.	KGB03654B	ROOF	1ST FLOOR, WEST SIDE	PACKAGED ROOFTOP	1200	120	0.6	32.4	31.0	14	80	62	96	53 / 70	43 / 57	65.9	82.8	MERV 8	1	18	3	208	1, 2, 4
RTU-3	LENNOX INDUSTRIES INC.	KGB12054B	ROOF	2ND FLOOR STORAGE	PACKAGED ROOFTOP	4000	405	0.6	95.1	88.5	12.6	80	62	96	156 / 240	124.8 / 192	62.8	87.9	MERV 8	2	43	3	208	1, 2, 3, 4

REMARKS:
1. FURNISH WITH FACTORY INSTALLED SENSIBLE ECONOMIZER W/ HOOD, WEATHERPROOF DISCONNECT, GFCI NON-POWERED, CONSTANT AIR VOLUME BELT DRIVE, BAROMETRIC RELIEF DAMPERS W/ HOOD, HINGED DOORS, AND 2" MERV 4 FILTER.
2. FURNISH WITH FIELD INSTALLED 18" DNFLOW HYBRID CURB, COMMERCIAL PROGRAMMABLE THERMOSTAT MODEL # CS7500, HAL/COIL GUARD, AND QTY. 4 MERV 8 FILTERS.
3. FURNISH WITH RETURN AIR SMOKE DETECTOR KIT
4. FURNISH WITH AUTOMATIC 7-DAY PROGRAMMABLE ELECTRONIC THERMOSTAT. CONTROLS SHALL HAVE 5 DEGREE DEADBAND, AUTO SETBACK, AND MANUAL OVERRIDE.

LOW INTENSITY RADIANT TUBE HEATER SCHEDULE

MARK	BASIS OF DESIGN		LOCATION	AREA AND/OR BLDG SERVED	SYSTEM AND/OR SERVICE	TYPE	MAX INPUT	NATURAL GAS MAX SUPPLY PRESSURE	FUEL	STRAIGHT LENGTH	WEIGHT	ELECTRICAL				REMARKS	
	MANUFACTURER	MODEL NUMBER										IN WG	IGNITION POWER	RUNNING POWER	PHASE		VOLT
RH-1	DETROIT RADIANT PRODUCTS CO.	DET3-50-150	CEILING	MACHINE SHOP	SPACE HEATING	GAS-FIRED INFRARED STRAIGHT	150	14	NG	50'-9"	235	1.7	1.1	1	120	1, 4	
RH-2	DETROIT RADIANT PRODUCTS CO.	DET3-50-150	CEILING	WELDING SHOP	SPACE HEATING	GAS-FIRED INFRARED STRAIGHT	150	14	NG	50'-9"	235	1.7	1.1	1	120	2, 4	
RH-3, RH-4, RH-5, RH-6	DETROIT RADIANT PRODUCTS CO.	DET3-20-65	CEILING	WELDING SHOP	SPACE HEATING	GAS-FIRED INFRARED U-BEND	65	14	NG	21'-9"	150	1.7	1.1	1	120	3, 4	

REMARKS:
1. FURNISH WITH 4" ROOFTOP VENT PACKAGE, REFLECTOR AND SINGLE MOUNTING BRACKETS.
2. FURNISH WITH 4" ROOFTOP VENT PACKAGE, REFLECTOR AND SINGLE MOUNTING BRACKETS. FURNISH WITH 45 DEGREE ANGLE MOUNTING BRACKET.
3. FURNISH WITH 4" ROOFTOP VENT PACKAGE, REFLECTOR AND U' BEND PACKAGE, SINGLE MOUNTING BRACKETS, AND 180 DEGREE 4" RADIANT U' BEND.
4. FURNISH AND INSTALL MFG THERMOSTAT PART NUMBER TH-BR52 AND 120V/24V 40VA XFRMR. WHERE TWO HEATERS ARE LOCATED IN THE SAME AREA WIRE TO OPERATE BOTH UNITS IN PARALLEL FROM THE SAME THERMOSTAT.

FUEL FIRED UNIT HEATER SCHEDULE

MARK	BASIS OF DESIGN		LOCATION	AREA AND/OR BLDG SERVED	FUEL	AIR FLOW	EAT	INPUT CAPACITY	OUTPUT CAPACITY	EFF.	TEMP. RISE	ELECTRICAL					WEIGHT	REMARKS							
	MANUFACTURER	MODEL NUMBER										CFM	°F	MBH	MBH	%			°F	HP	VOLT	PHASE	FLA	MOCP	LBS.
UH-1 / UH-2	REZNOR	UDAP-60	CEILING	STORAGE	GAS	769	67	58.2	48.3	83	60	0.06	120	1	2.4	15	67	1, 2, 3, 4							

REMARKS:
1. SCHEDULED OUTPUT RATING HAS BEEN DERATED FOR 2800' ELEVATION.
2. ELECTRONIC SPARK IGNITION, CL-18 THERMOSTAT KIT.
3. DISCONNECT SWITCH FURNISHED BY MC AND INSTALLED BY EC.
4. HANGING MATERIALS FURNISHED AND INSTALLED BY MC.

ELECTRIC UNIT HEATER SCHEDULE

MARK	BASIS OF DESIGN		LOCATION	AREA AND/OR BLDG SERVED	TYPE	AIR FLOW	EAT	ELEC	MIN CAPACITY	POWER			REMARKS				
	MANUFACTURER	MODEL NUMBER								CFM	°F	KW		BTUH	AMP	PHASE	VOLT
EH-1	QMARK	CWH1101DS	WALL	OFFICE RESTROOM	ELEC.	65	67	1	3413	8.4	1	120	1				
EH-2	QMARK	CWH1101DS	WALL	UTILITY CLOSET 106	ELEC.	65	67	1	3413	8.4	1	120	1				
EH-3	QMARK	CWH1101DS	WALL	RECEIVING AREA 105	ELEC.	65	67	1	3413	8.4	1	120	1				
EH-4	QMARK	CWH1101DS	WALL	RECEIVING AREA 105	ELEC.	65	67	1	3413	8.4	1	120	1				

REMARKS:
1. FURNISH WITH DISCONNECT SWITCH AND SURFACE MOUNTING FRAME.
2. FURNISH WITH SINGLE POLE INTERNAL THERMOSTAT (P/N: UHMT1), AND MOUNTING BRACKET (P/N: B10).



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FOR CONSTRUCTION
6/25/18

PROJECT: 18059.00 DATE: 5-2-18
DRAWN: RLM CHECKED: RCP

REVISED:
1. ADDENDUM NO. ONE 05-15-18
4. ADDENDUM NO. FIVE 06-06-18

SHEET TITLE

HVAC SCHEDULES

SHEET

M70

ORIGINAL SHEET SIZE
30" x 42"



WALL LOUVERS

MARK	BASIS OF DESIGN		LOCATION	SYSTEM AND/OR SERVICE	TYPE	APPLICATION	WIDTH	HEIGHT	FRAME DEPTH	FREE AREA	AIR FLOW	APD	DAMPER TYPE	REMARKS
	MANUFACTURER	MODEL NUMBER					IN	IN	IN	FT ²	CFM	IN		
LV-1	RUSKIN	ELF375DY	WALL	RECEIVING AREA	INTAKE	DUCTED	36	18	4	2.06	930	0.043	BACKDRAFT	1

REMARKS:
1. FURNISH WITH 120V MOTORIZED BACKDRAFT DAMPER, ALUMINUM INSECT SCREEN.

VEHICLE / WELDING EXHAUST SYSTEM SCHEDULE

MARK	BASIS OF DESIGN		LOCATION	FAN ROTATION AND DISCHARGE	AIRFLOW	TSP	ROT	DIS.	MOTOR ELECTRICAL			REMARKS	
	MANUFACTURER	MODEL NUMBER							CFM	IN	HP		FLA
VE-1 to VE-5	VENTAIRE	PW11-1	LIGHT MAINTENANCE	CCW-THD	635	3	CCW	THD	1.0	12.4	1	120	1,2,3
VE-6 to VE-8	VENTAIRE	PW11-3	HEAVY MAINTENANCE	CCW-THD	635	3	CCW	THD	1.0	12.4	1	120	1,2,3
WE-1 / WE-2	VENTAIRE	PW11-1	WELDING SHOP	CCW-THD	635	3	CCW	THD	1.0	12.4	1	120	1,2,3

REMARKS:
1. FURNISH WITH SET OF 4 VIBRATION ISOLATORS, NON-FUSED DISCONNECT SWITCH (25A), FAN STARTER W/ OVERLOAD PROTECTION (1 HP MAX).
2. FURNISH WITH RPS STANDARD ROUND DUCT ROOF SUPPORTS MODEL ER-3A.
3. FAN FURNISHED WITH BACKDRAFT DAMPER.
4. CONTRACTOR TO FURNISH FIELD FABRICATED RAIN HOOD.

FAN SCHEDULE

MARK	BASIS OF DESIGN		LOCATION	AREA AND/OR BLDG SERVED	SYSTEM AND/OR SERVICE	AIR FLOW	TSP	MOTOR ELECTRICAL										REMARKS			
	MANUFACTURER	MODEL NUMBER						WHEEL	CLASS	ARRANGEMENT, ROTATION, AND DISCHARGE	DIAMETER (IN)	DRIVE	FAN RPM	FAN MAX RPM	NOMINAL POWER		PHASE		VOLT	RPM	SPEED CONTROL
EF-1 / EF-2	COOK	ACRU-B 120R2B	ROOF	STORAGE	GENERAL EXHAUST	1000	0.25	CENTRIFUGAL	I	BACKWARD INCLINED, UPBLAST	30-3/16	BELT	1181	1671	0.127	1/6	1	120	1725	N/A	1, 2
EF-3	COOK	ACRU-B 120R2B	ROOF	GARAGE	GENERAL EXHAUST	1170	0.25	CENTRIFUGAL	I	BACKWARD INCLINED, UPBLAST	30-3/16	BELT	1181	1671	0.07	1/6	1	120	1725	N/A	1, 2
EF-4	COOK	ACE-B 120C3B	ROOF	RESTROOMS	GENERAL EXHAUST	1110	0.5	CENTRIFUGAL	I	BACKWARD INCLINED, DOWNBLAST	28-7/16	BELT	1357	1669	0.19	1/4	1	120	1725	N/A	1, 2
EF-5	COOK	30 XMWH	WALL	LIGHT MAINT.	CO EXHAUST	620	0.25	STEEL PROPELLER	I	X-STREAM STEEL PROPELLER	33-3/8	BELT	756	1175	0.271	3/4	1	120	1725	N/A	1, 3
EF-6	COOK	24 XMWH	WALL	HEAVY MAINT.	CO EXHAUST	4460	0.25	STEEL PROPELLER	I	X-STREAM STEEL PROPELLER	27-3/8	BELT	1044	1920	0.441	1/2	1	120	1725	N/A	1, 3
EF-7	COOK	ACRU-B 100R2B	ROOF	SHOP	GENERAL EXHAUST	310	0.15	CENTRIFUGAL	I	BACKWARD INCLINED, UPBLAST	25-3/16	BELT	843	2002	0.02	1/8	1	120	1725	N/A	1, 2
EF-8	COOK	ACW-B 210WB	WALL	MACH. SHOP	CO EXHAUST	4600	0.25	CENTRIFUGAL	I	BACKWARD INCLINED	41	BELT	859	1227	0.693	3/4	1	120	1725	N/A	1, 3
EF-9	COOK	ACRU-B 120R3B	ROOF	RECEIVING	GENERAL EXHAUST	930	0.5	CENTRIFUGAL	I	BACKWARD INCLINED, UPBLAST	30-3/16	BELT	1265	1671	0.171	1/4	1	120	1725	N/A	1, 2

REMARKS:
1. SIZED FOR USE AT ALTITUDE OF 2800'.
2. FURNISH WITH NEMA 1 STANDARD DISCONNECT, GRAVITY BACKDRAFT DAMPER, AND GALVANIZED STEEL ROOF CURB.
3. FURNISH WITH NEMA 1 STANDARD DISCONNECT, MOTORIZED DISCHARGE SHUTTER, WALL COLLAR, AND WEATHER HOOD.

INTAKE HOOD SCHEDULE

MARK	BASIS OF DESIGN		LOCATION	SYSTEM AND/OR SERVICE	TYPE	APPLICATION	THROAT SIZE	AIR FLOW	APD	DAMPER TYPE	REMARKS
	MANUFACTURER	MODEL NUMBER					IN	CFM	IN		
IH-1 / IH-2	COOK	12X24GR	ROOF	STORAGE	GRAVITY RELIEF	DUCTED	12 x 24	1000	0.011	BACKDRAFT	1
IH-3 / IH-4	COOK	16X24GR	ROOF	WELDING/MACHINE SHOP	GRAVITY RELIEF	DUCTED	16 x 24	2300	0.034	BACKDRAFT	1

REMARKS:
1. FURNISH WITH 120V MOTORIZED BACKDRAFT DAMPER, GALVANIZED STEEL ROOF CURB, AND ALUMINUM INSECT SCREEN.

CEILING FAN SCHEDULE

MARK	BASIS OF DESIGN		DIAMETER (FT)	LOCATION	MAX SPEED (RPM)	PHASE	VOLT	RATED CURRENT	WEIGHT (LBS)	REMARKS
	MANUFACTURER	MODEL NUMBER								
CF-1 to CF-4	BIG ASS FANS	ESSENCE	10	MAINT/REPAIR SHOP	107	1	208	3.4	81	1
CF-5 to CF-10	BIG ASS FANS	ESSENCE	8	WELD/MACHINE SHOP	158	1	208	3.6	75	1

REMARKS:
1. COORDINATE DOWN TUBE LENGTH WITH STRUCTURE AND MFG INSTALLATION REQUIREMENTS. PROVIDE AND INSTALL MFG WALL MOUNTED CONTROLLER. WIRE MULTIPLE FANS IN THE SAME SPACE IN PARALLEL TO OPERATE ON THE SAME WALL CONTROLLER.

CODE REQUIRED OUTSIDE AIR VENTILATION RATES (2015 IMC)

ZONE & AREA	OCCUPANCY CATEGORY	NET AREA SQ. FT.	AREA OUTDOOR AIR RATE CFM/SQ. FT.	CODE REQ'D BASED ON FLOOR AREA CFM	NO. OF PEOPLE	PEOPLE OUTDOOR AIR RATE CFM/PERSON	CODE REQ'D BASED ON PEOPLE CFM	TOTAL OA REQUIRED BY CODE CFM	ZONE AIR DIST. EFF. (2015 IMC)	SPACE OUTDOOR AIR CFM	DESIGN OSA PROVIDED CFM	REMARKS
(E) HEAVY MAINTENANCE	STORAGE-REPAIR GARAGE	5941	0.06	357	3	10	30	387	0.8	484	484	EXHAUST AT 0.05 CFM/SF CONTINUOUS. 0.75 CFM/SF WITH CO SENSOR.
(E) LIGHT MAINTENANCE	STORAGE-REPAIR GARAGE	8178	0.06	491	3	10	30	521	0.8	651	651	EXHAUST AT 0.05 CFM/SF CONTINUOUS. 0.75 CFM/SF WITH CO SENSOR.
(E) PARTS STORAGE WEST	STORAGE	562	0.12	68	0	5	0	68	0.8	85	1000	EXHAUST ONLY, VENT BY TRANSFER
(E) PARTS STORAGE WEST	STORAGE	558	0.12	67	0	5	0	67	0.8	84	1000	EXHAUST ONLY, VENT BY TRANSFER
(E) MACHINE SHOP	METAL SHOP	1737	0.18	313	1	10	10	323	0.8	404	404	EXHAUST AT 0.05 CFM/SF CONTINUOUS. 0.75 CFM/SF WITH CO SENSOR.
(E) WELDING SHOP	METAL SHOP	2933	0.18	528	1	10	10	538	0.8	673	673	EXHAUST AT 0.05 CFM/SF CONTINUOUS. 0.75 CFM/SF WITH CO SENSOR.
(E) MACHINE SHOP	METAL SHOP	1451	0.18	262	1	10	10	272	0.8	340	340	EXHAUST AT 0.05 CFM/SF CONTINUOUS. 0.75 CFM/SF WITH CO SENSOR.
(E) OFFICE	OFFICE SPACE	439	0.06	27	3	5	15	42	0.8	53		
(E) RESTROOM	RESTROOMS	43	0	0	0	0	0	0	0.8	0		EXHAUST ONLY, VENT BY TRANSFER
(E) OFFICE	OFFICE SPACE	94	0.06	6	1	5	5	11	0.8	14		
(E) JANITOR	STORAGE ROOM	55	0.12	7	0	5	0	7	0.8	9		EXHAUST ONLY, VENT BY TRANSFER
(E) ELECTRIC ROOM	OCC STORAGE ROOM	139	0.06	9	0	5	0	9	0.8	11		
OFFICE 111	OFFICE SPACE	191	0.06	12	1	5	5	17	0.8	21	335	
OFFICE 112	OFFICE SPACE	126	0.06	8	1	5	5	13	0.8	16		
OFFICE 113	OFFICE SPACE	126	0.06	8	1	5	5	13	0.8	16		
OFFICE 114	OFFICE SPACE	126	0.06	8	1	5	5	13	0.8	16		
OFFICE 115	OFFICE SPACE	211	0.06	13	1	5	5	18	0.8	23		
LIFT	GENERAL-CORRIDOR	114	0.06	7	0	0	0	7	0.8	9		
SUPPLY LOBBY	MISC-WAREHOUSE	167	0.06	11	1	10	10	21	0.8	26		
OPEN STORAGE	MISC-WAREHOUSE	1249	0.06	75	2	10	20	95	0.8	119		
(E) LUNCH ROOM	BREAKROOM	376	0.06	23	6	5	30	53	0.8	66		
(E) LOCKER/RESTROOM	LOCKER ROOMS	400	0	0	0	0	0	0	0.8	0	120	EXHAUST ONLY, VENT BY TRANSFER
(E) ELECTRIC SHOP	OFFICE SPACE	90	0.06	6	1	5	5	11	0.8	14		
(E) TOOLS	OFFICE SPACE	90	0.06	6	1	5	5	11	0.8	14		
(E) SECOND FLOOR FILE STORAGE	MISC-WAREHOUSE	5396	0.06	324	0	10	0	324	0.8	405	405	
RECEIVING AREA 105	MISC. SHIPPING / RECEIVING	543	0.06	33	0	5	0	33	0.8	41	935	EXHAUST ONLY, VENT BY TRANSFER
UTILITY CLOSET 106	UTILITY ROOM	47	0	0	0	0	0	0	0	0		
NOT USE	SECURE STORAGE 108	STORAGE ROOM	200	0.06	12	0	0	12	0.8	15	150	EXHAUST ONLY, VENT BY TRANSFER

AIR DEVICE SCHEDULE

MARK	BASIS OF DESIGN		TYPE	AIR FLOW		MAX APD	MOUNTING	PANEL/FRAME SIZE	NECK SIZE	NC	DAMPER	FINISH	REMARKS
	MANUFACTURER	MODEL NUMBER		MIN CFM	MAX CFM								
SR-1	TITUS	300RS	SUPPLY REGISTER	50	135	0.090	DUCT	8 x 8	6 x 6	20	NONE	WHITE	1
SR-2	TITUS	300RS	SUPPLY REGISTER	150	200	0.060	DUCT	10 x 8	8 x 6	17	NONE	WHITE	1
SR-3	TITUS	300RS	SUPPLY REGISTER	200	300	0.070	DUCT	12 x 8	10 x 6	18	NONE	WHITE	1
SR-4	TITUS	300RS	SUPPLY REGISTER	400	500	0.070	DUCT	14 x 12	12 x 10	21	NONE	WHITE	1
EG-1	TITUS	350RL	EXHAUST REGISTER	50	135	0.090	DUCT	8 x 8	6 x 6	20	OBD	WHITE	2, 4
EG-2	TITUS	350RL	EXHAUST REGISTER	50	135	0.090	WALL	8 x 8	6 x 6	20	OBD	WHITE	2, 4
EG-3	TITUS	350RL	EXHAUST REGISTER	350	500	0.030	DUCT	14 x 14	12 x 12	19	OBD	WHITE	2, 4
EG-4	TITUS	350RL	EXHAUST REGISTER	500	1000	0.090	DUCT	24 x 14	18 x 12	19	OBD	WHITE	2, 4
EG-5	TITUS	350RL	EXHAUST REGISTER	400	500	0.090	DUCT	12 x 12	10 x 10	20	OBD	WHITE	2, 4
RG-1	TITUS	350RL	RETURN REGISTER	250	350	0.07	DUCT	12 x 12	10 x 10	20	NONE	WHITE	2
RG-2	TITUS	350RL	RETURN REGISTER	450	530	0.07	DUCT	14 x 14	12 x 12	19	NONE	WHITE	2
RG-3	TITUS	350RL	RETURN REGISTER	950	1250	0.07	DUCT	20 x 20	18 x 18	21	NONE	WHITE	2
RG-4	TITUS	350RL	RETURN REGISTER	1550	1850	0.07	DUCT	24 x 24	22 x 22	24	NONE	WHITE	2
RG-5	TITUS	350RL	RETURN REGISTER	4000	4500	0.07	DUCT	26 x 50	24 x 48	22	NONE	WHITE	2
TG-1	TITUS	350RL	TRANSFER GRILLE	150	250	0.07	WALL	10 x 10	8 x 8	16	NONE	WHITE	2
TG-2	TITUS	350RL	RETURN REGISTER	450	530	0.07	WALL	14 x 14	12 x 12	19	NONE	WHITE	2
CD-1	TITUS	TDCA	SUPPLY DIFFUSER	150	250	0.142	LAY-IN	9 x 9	8" Ø	22	NONE	WHITE	3

REMARKS:
1. SEE DETAIL FOR DAMPER IN BRANCH DUCT SERVING EACH DIFFUSER.
2. 35° DEFLECTION. FURNISH WITH BLADES PARALLEL TO THE LONG DIMENSION.
3. BORDER TYPE SHALL BE COMPATIBLE WITH THE ARCHITECTURAL CEILING TYPE. PROVIDE 24X24 LAY-IN MODULE FRAME FOR CEILING GRID.
4. FURNISH WITH OPPOSED BLADE DAMPER.

Mechanical Plan Review: APPROVED with Conditions
1. An air balance report shall be provided to the HVAC Inspector prior to final inspection in order to verify that adequate makeup air has been provided for all exhaust equipment as per Section 403.7 of the 2012 IMC as well as reflecting adequate ventilation for the Repair Shop Areas in accordance with Table 403.3 of the 2012 IMC.
2. Ensure that all gas fired equipment within the shop areas have been supplied with adequate combustion air in accordance with Section 304 of the 2012 IFGC, accounting for all exhaust equipment where fuel fired gas equipment exist.
3. Final approval shall be based upon HVAC inspection for adherence to the 2012 IMC, 2012 IFGC, Idaho Statute Title 54 Chapter 50, stamped approved plans and manufacturers installation instructions.



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ITD DIST 3 MAINTENANCE BLDG UPGRADES
GARDEN CITY, ID
5800 COFFEY STREET

CSHQA
FOR CONSTRUCTION
6/25/18

PROJECT: 18059.00 DATE: 5-2-18
DRAWN: RLM CHECKED: RCP

REVISIONS:
1. ADDENDUM NO. ONE 05-15-18
4. ADDENDUM NO. FIVE 06-06-18

SHEET TITLE:
HVAC & INSULATION SCHEDULES

SHEET:
M71

ORIGINAL SHEET SIZE:
30" x 42"



SYMBOLS

	CONDUIT CONTINUATION		EMERGENCY EXIT SIGN WITH BATTERY BACKUP: SHADED QUARTER OF SYMBOL INDICATES LIGHTED 'EXIT' ON THAT FACE. ARROWS INDICATE LIGHTED DIRECTIONAL ARROW ON THAT FACE. CONNECT TO UNSWITCHED LOCAL LIGHTING CIRCUIT.
	CONDUIT CONCEALED IN WALL OR CEILING		EMERGENCY LIGHTING (SURFACE, RECESSED) CONNECT TO UNSWITCHED LOCAL LIGHTING CIRCUIT.
	CONDUIT EXISTING		FIXTURES WITH HALF-SHADING ARE EMERGENCY LIGHTS WITH BATTERY BACKUP. BATTERY BACKUP SHALL PROVIDE MINIMUM 1100 LUMENS PER FIXTURE FOR 90 MINUTES. EMERGENCY BATTERY UNIT SHALL BE CONNECTED TO UNSWITCHED LOCAL LIGHTING CIRCUIT. EMERGENCY FIXTURES SHALL BE NIGHT LIGHTS CONNECTED FOR 24 HOUR OPERATION. UON. EMERGENCY FIXTURES WITH AN 'DM' DESIGNATION SHALL BE SWITCHED WITH ROOM LIGHTS (ON AT LOSS OF POWER ONLY).
	CONDUIT CONCEALED UNDERGROUND		FLUORESCENT LIGHT FIXTURE
	HOMERUN		FLUORESCENT STRIP FIXTURE
	CONDUIT STUB DOWN		PENDANT FIXTURE
	STUB THROUGH		RECESSED ROUND FIXTURE
	CONDUIT STUB UP		WALL SCONCE
	JUNCTION BOX (NEW, EXISTING, DEMO)		WALL MOUNTED FIXTURE
	ELECTRICAL DISTRIBUTION PANELBOARD		RECESSED STEP FIXTURE
	EQUIPMENT ENCLOSURE AS NOTED		BOLLARD FIXTURE
	DUPLEX RECEPTACLE (NEW, EXISTING, DEMO)		POST TOP LIGHT FIXTURE, POLE, AND BASE
	DOUBLE DUPLEX RECEPTACLE		LIGHT FIXTURE CALLOUT
	250 VOLT RECEPTACLE: COORDINATE REQUIREMENTS WITH EQUIPMENT BEING SERVED		SWITCH 120/277 VOLT, 20 AMP
	DUPLEX FLOOR RECEPTACLE: FLUSH WITH BRASS COVER		HORSEPOWER RATED SWITCH WITH THERMAL OVERLOADS SIZED AS REQUIRED BY EQUIPMENT LABEL RATING.
	FLUSH FLOOR BOX DUPLEX RECEPTACLE, COMM/DATA, A/V		SWITCH 120/277 VOLT, 20 AMP X = 2 - DOUBLE POLE-DOUBLE THROW 3 - THREE-WAY 4 - FOUR-WAY D - DIMMER CONTROL K - KEY OPERATED OS - WALL MOUNT MOTION SENSOR SWITCH WITH BY-PASS. P - WITH NEON PILOT LIGHT T - SPRING WOUND 15 MINUTE COUNTDOWN TIMER WP - WEATHERPROOF LV - LOW VOLTAGE
	ALL RECEPTACLES: X = EP - EXPLOSION PROOF GF - GROUND FAULT INTERRUPTER WP - WEATHERPROOF		POWER CONTROLLER ENCLOSURE (POWER PACK)
	SPECIAL ELECTRICAL CONNECTION: COORDINATE REQUIREMENTS WITH EQUIPMENT BEING SERVED		CEILING OCCUPANCY SENSOR
	MOTOR CONNECTION		PHOTO SENSOR, CEILING MOUNT, LINE VOLTAGE, 0-10V DIMMING, nLIGHT
	STARTER OR CONTACTOR: SIZE AS REQUIRED BY EQUIPMENT MANUFACTURER		TELEPHONE TERMINAL BOARD (PLAN VIEW)
	COMBINATION MOTOR STARTER/DISCONNECT: SIZE AS REQUIRED BY EQUIPMENT MANUFACTURER		SIGNAL OUTLETS SYSTEM NOTES: SYSTEMS ARE RACEWAY ONLY FOR THIS CONTRACTOR UON. 4" SQUARE BOX MINIMUM WITH SINGLE GANG MUD RING UON. 1" MINIMUM CONDUIT SIZE FROM BOX TO NEAREST ACCESSIBLE CEILING.
	DISCONNECT SWITCH: SIZE AS REQUIRED BY EQUIPMENT MANUFACTURER F=FUSED, BLANK=UNFUSED		TELEPHONE-DATA OUTLET
	SWITCH/DISCONNECT CONFIGURATION DESIGNATION		TELEVISION OUTLET
	NUMBER OF POLES		SHEET NOTE CALLOUT
	AMPERE RATING OF THE SWITCH		REVISION DELTA
	NEMA CLASSIFICATION		EXISTING DEVICE/EQUIPMENT - FOR CLARIFICATION
	THERMOSTAT OR TEMPERATURE SENSOR: SEE MECHANICAL DRAWINGS FOR LOCATIONS FURNISH AND INSTALL BACKBOX AND 1°C TO ABOVE ACCESSIBLE CEILING. COORDINATE INSTALLATION WITH MECHANICAL.		NEW DEVICE/EQUIPMENT - FOR CLARIFICATION
	DUCT TYPE SMOKE DETECTOR: SEE MECHANICAL DRAWINGS FOR LOCATIONS VERIFY REQUIREMENTS WITH MECHANICAL AND FIRE PROTECTION. FURNISH AND INSTALL ALL ELECTRICAL REQUIRED FOR COMPLETE OPERATIONAL SYSTEM.		RELOCATED DEVICE/EQUIPMENT - FOR CLARIFICATION
	SMOKE DAMPER: SEE MECHANICAL DRAWINGS FOR LOCATIONS VERIFY REQUIREMENTS WITH MECHANICAL AND FIRE PROTECTION. FURNISH AND INSTALL ALL ELECTRICAL REQUIRED FOR COMPLETE OPERATIONAL SYSTEM.		
	MECHANICAL EQUIPMENT CALLOUT		

ABBREVIATIONS

#C	SIZE OF TRADE SIZE CONDUIT. # = 1/2" C, 2" C.	KO	KNOCK OUT
#P	NUMBER OF POLES. # = 1P, 2P, ETC.	KV	KILOVOLT
#W	NUMBER OF WIRES. # = 3W, 4W, ETC.	KVA	KILOVOLT AMPERE
A	AMPERE	KW	KILOWATT
AC	ALTERNATING CURRENT	KWH	KILOWATT HOUR
ADA	AMERICANS WITH DISABILITIES ACT	LV	LOW VOLTAGE
AFF	ABOVE FINISHED FLOOR	MCC	MOTOR CONTROL CENTER
AFG	ABOVE FINISHED GRADE	MDSB	MAIN DISTRIBUTION SWITCHBOARD
AHJ	AUTHORITY HAVING JURISDICTION	MFR	MANUFACTURER
AIC	AMPERE INTERRUPTING CAPACITY	MLO	MAIN LUG ONLY
AL	ALUMINUM	N/A	NOT APPLICABLE
ANN	ANNUNCIATOR	NC	NORMALLY CLOSED
AUX	AUXILIARY	NEC	NATIONAL ELECTRICAL CODE
AWG	AMERICAN WIRE GAUGE	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
CB	CIRCUIT BREAKER	NESCA	NATIONAL ELECTRICAL SAFETY CODE
CLG	CEILING	NO	NORMALLY OPEN
C	CONDUIT	NO.	NUMBER
CD	CANDELLA	NRTL	NATIONALLY RECOGNIZED TESTING LABORATORY - AS DEFINED BY OSHA
CT	CURRENT TRANSFORMER	OC	OVER COUNTER TOP BACKSPASH - COORDINATE INSTALLATION
CU	COPPER	O.H.	OPPOSITE HAND - MIRRORRED OR ROTATED LAYOUT
DC	DIRECT CURRENT	OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
DPDT	DOUBLE POLE, DOUBLE THROW	PF	POWER FACTOR
DPST	DOUBLE POLE, SINGLE THROW	PH	PHASE
EMT	ELECTRICAL METALLIC TUBING	REV	REVISION
EP	EXPLOSION PROOF	RTU	ROOF TOP UNIT
EWB	ELECTRIC WATER HEATER	SPDT	SINGLE POLE, DOUBLE THROW
F	FUSE	SPST	SINGLE POLE, SINGLE THROW
FACP	FIRE ALARM CONTROL PANEL	SST	SOFT START/STOP MOTOR STARTER
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	SYMM	SYMMETRICAL
GFI	GROUND FAULT INTERRUPTER	TTB	TELEPHONE TERMINAL BOARD
GND	GROUND	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
HOA	HAND-OFF-AUTO	TYP	TYPICAL
HP	HORSE POWER	UON	UNLESS OTHERWISE NOTED
HVAC	HEATING VENTILATION AND AIR CONDITIONING	UPS	UNINTERRUPTIBLE POWER SUPPLY
I/O	INPUT / OUTPUT	V	VOLTAGE
IG	ISOLATED GROUND	VA	VOLT-AMPERE
INC	INCANDESCENT	VFD	VARIABLE FREQUENCY MOTOR DRIVE
J-BOX	JUNCTION BOX	WP	WEATHERPROOF
KMIL	THOUSAND CIRCULAR MIL	XMR	TRANSFORMER
		XFR	TRANSFER SWITCH

ELECTRICAL PLAN REVIEW NOTES: APPROVED

Approval of the submitted documentation and drawings by an Electrical Plan Review does not alleviate the contractor or individuals from adherence to the 2017 National Electrical Code and local code requirements as they are adopted. Final approval will be based upon on-site Electrical Inspections.

Electrical service equipment, panels, and overcurrent protective devices shall be in compliance with NEC 110.9 and 110.10.

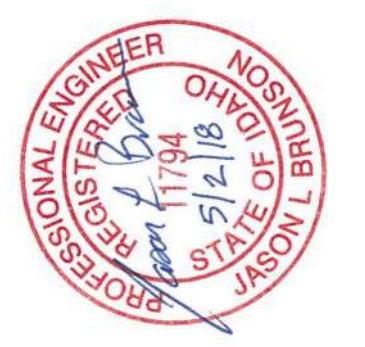
NEC 110.24 (B) - When modifications occur, that effect the maximum available fault current at the service or derived services (generators/transformers), the maximum available fault current shall be verified or recalculated. The required field markings shall be adjusted to reflect the new level of maximum available fault current.

NEC 210.63 - At least one 125-volt, single-phase 15 or 20 Ampere rated receptacle outlet shall be installed at an accessible location within 25 feet of the heating, air-conditioning and refrigeration equipment.

In other than dwelling units all single-phase receptacles rated 150 volts to ground or less, 50 amperes or less and three-phase receptacles rated 150 volts to ground or less, 100 amperes or less shall have GFCI protection where applicable in accordance with NEC 210.8 (B).

GENERAL NOTES:

- PROPOSED MODIFICATIONS OF ENGINEERED ELECTRICAL DRAWINGS SHALL BE APPROVED BY ENGINEER OF RECORD PRIOR TO PROCEEDING WITH WORK. PROPOSED CHANGES SHALL COMPLY WITH ALL APPLICABLE CODES/JURISDICTION REQUIREMENTS. COST OF ANY ENGINEERING/REVIEW REQUIRED BY PROPOSED CHANGES SHALL BE BORNE BY ENTITY PROPOSING CHANGE.
- ALL EXISTING ELECTRICAL EQUIPMENT SHALL REMAIN FULLY FUNCTIONAL, UON.
- CONTRACTOR SHALL COORDINATE ALL POWER OUTAGES WITH THE OWNER AND OBTAIN PERMISSION A MINIMUM OF (5) DAYS PRIOR TO REMOVAL OF POWER.
- PROTECT ALL EXISTING WORK FROM DAMAGE DURING CONSTRUCTION. ANY DAMAGED MATERIALS, SYSTEMS, COMPONENTS, FINISHES, AND THE LIKE, SHALL BE REPAIRED OR REPLACED AT THE EXPENSE OF THE CONTRACTOR TO THE ACCEPTANCE OF THE OWNER.
- DESIGN IS BASED ON BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS TO DETERMINE STATUS OF ACTUAL CONDITIONS AS THEY RELATE TO THE SCOPE OF WORK AS SHOWN ON THESE PLANS.
- DEMOLITION WORK IS A PART OF THIS PROJECT. SEE DRAWINGS FOR EXISTING ELECTRICAL DEVICES TO BE REMOVED. REMOVE ASSOCIATED BOXES, RACEWAYS AND CONDUCTORS BACK TO SOURCE, AND MAKE SAFE. RACEWAYS THAT ARE IN WALLS OR FLOORS WHICH ARE TO REMAIN SHALL BE ABANDONED IN PLACE. THE RACEWAY SHALL BE REMOVED TO BELOW THE SURFACE OF THE ASSOCIATED WALL OR FLOOR. THE RESULTING DEPRESSION SHALL BE REPAIRED TO MATCH THE ADJACENT SURFACE.
- CONTRACTOR SHALL DISPOSE OF THE REMOVED ELECTRICAL. DISPOSAL OF DEVICES SHALL COMPLY WITH ALL APPROPRIATE CODES. REUSE EXISTING CONDUITS AND JUNCTION BOXES AS IS PRACTICAL.
- ALL EXISTING CIRCUITS TO REMAIN THAT RUN THROUGH WALLS TO BE REMOVED SHALL BE REROUTED AND RECONNECTED. REPAIR AND PATCH ALL WALLS TO MATCH SURROUNDING SURFACES.
- IF A CIRCUIT TO REMAIN IS INTERRUPTED AS A RESULT OF WORK RELATING TO THIS PROJECT, THE CIRCUIT SHALL BE RE-ENERGIZED AS REQUIRED TO MAINTAIN POWER TO THE AFFECTED DEVICES.
- COORDINATE ALL ELECTRICAL WORK WITH ALL OTHER TRADES.
- COORDINATE EXACT LOCATION AND MOUNTING HEIGHTS OF ALL ELECTRICAL EQUIPMENT AND DEVICES WITH THE ARCHITECTURAL ELEVATIONS AND DETAILS PRIOR TO ROUGH-IN.
- CONTRACTOR SHALL COORDINATE WITH WALL TYPES AND FURNISH AND INSTALL EXTENSION RINGS AS REQUIRED. (I.E. WALLS WITH TWO LAYERS OF GYP BOARD).
- ALL MATERIALS AND EQUIPMENT FURNISHED TO THE PROJECT SHALL BE NEW AND SHALL BEAR THE LISTING LABEL OF UNDERWRITERS LABORATORY (UL), WHERE APPLICABLE.
- ALL ELECTRICAL BOXES, FITTINGS AND CABINETS SHALL BE OF STEEL CONSTRUCTION, GALVANIZED OR POWDER COATED, NEMA 1 TYPE, UON.
- EQUIPMENT REMOVED AND RELOCATED SHALL HAVE ALL CONDUCTORS AND CONDUITS LABELED IN A LOGICAL FASHION. CONTRACTOR SHALL COORDINATE WITH LABELING SCHEME FOR RECONNECTION OF EQUIPMENT.
- THE ELECTRICAL CONTRACTOR SHALL VERIFY ELECTRICAL LOADS ON EXISTING CIRCUIT(S) AND PANELBOARDS PRIOR TO MAKING ANY MODIFICATION TO ENSURE ADEQUATE CAPACITY FOR NEW DEVICES AND LIGHT FIXTURES. FURNISH AND INSTALL CIRCUIT BREAKERS OF THE SAME TYPE AND RATING IN PANELBOARD AS NEEDED.
- FOR CIRCUITS THAT ARE MADE SPARE, THE CIRCUIT BREAKER SHALL REMAIN IN PLACE. THE CIRCUIT CONDUCTORS SHALL BE DISCONNECTED FROM THE CIRCUIT BREAKER AND REMOVED FROM THE RACEWAY. THE CIRCUIT BREAKER SHALL BE MARKED SPARE.



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FOR CONSTRUCTION
6/25/18

PROJECT 18059.00 DATE 5-2-18
DRAWN RJL CHECKED JLB
REVISED

DRAWING INDEX:

E01	GENERAL SYMBOLS AND LEGEND
E02	SCHEDULES & COMPLIANCE FORMS
E03	ELECTRICAL SITE PLAN
E04A	DEMOLITION PLAN GROUND FLOOR
E04B	DEMOLITION PLAN GROUND FLOOR
E05A	DEMOLITION PLAN ROOF
E05B	DEMOLITION PLAN ROOF
E11A	LIGHTING PLAN GROUND FLOOR
E11B	LIGHTING PLAN GROUND FLOOR
E12	LIGHTING PLAN SECOND FLOOR
E21A	POWER PLAN GROUND FLOOR
E21B	POWER PLAN GROUND FLOOR
E22	POWER PLAN SECOND FLOOR
E31A	MECHANICAL POWER PLAN GROUND FLOOR
E31B	MECHANICAL POWER PLAN GROUND FLOOR
E32	MECHANICAL POWER PLAN SECOND FLOOR
E33A	MECHANICAL POWER PLAN ROOF
E33B	MECHANICAL POWER PLAN ROOF
E71	DETAILS
E81	SINGLE-LINE DIAGRAM
E82	PANEL SCHEDULES
E83	PANEL SCHEDULES

SHEET TITLE
GENERAL SYMBOLS AND LEGEND

SHEET

E01

ORIGINAL SHEET SIZE
30" x 42"



COMcheck Software Version 4.0.8.1 Interior Lighting Compliance Certificate

Project Information

Energy Code: 2015 IECC
 Project Title: ITD District 3 Maintenance Building Upgrades
 Project Type: New Construction

Construction Site: 5800 Coffey Street, Garden City, ID 83714
 Owner/Agent: CSHQA
 Designer/Contractor: 205 Broad Street, Boise, ID 83702, (208) 343-4635

Additional Efficiency Package(s)

Reduced interior lighting power. Requirements are implicitly enforced within interior lighting allowance calculations.

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft ²)	C Allowed Watts / ft ²	D Allowed Watts (B X C)
1-Parts Storage (Common Space Types:Storage >=1000 sq.ft.)	1148	0.57	654
3-Open Supply Storage (Common Space Types:Storage >=1000 sq.ft.)	1086	0.57	619
4-Lift (Common Space Types:Lobby For Elevator)	116	0.58	67
2-Receiving Area (Common Space Types>Loading Dock)	632	0.42	261
5-Supply Lobby (Common Space Types>Lobby - General)	171	0.81	139
6-Offices (Common Space Types>Office - Enclosed)	839	1.00	839
7-Break (Common Space Types>Lounge/Breakroom)	61	0.66	40
8-Janitor (Common Space Types>Storage <=50 <<=1000 sq.ft.)	68	0.57	34
9-Restrooms (Common Space Types>Restrooms)	129	0.88	114
10-Vending (Common Space Types>Lobby - General)	383	0.81	310
Total Allowed Watts =			3078

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps / Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
1-Parts Storage (Common Space Types:Storage >=1000 sq.ft.) LED Highbay, L1 LED Highbay, Other	1	4	290	1120
3-Open Supply Storage (Common Space Types:Storage >=1000 sq.ft.) Relocated LED Lowbay, 8' LED Lowbay, Other	1	5	35	325
Relocated LED Lowbay, 4' LED Lowbay, Other	1	3	33	99
4-Lift (Common Space Types>Lobby For Elevator) Relocated LED Lowbay, 4' LED Lowbay, Other	1	3	33	99
2-Receiving Area (Common Space Types>Loading Dock) Relocated LED Lowbay, 8' LED Lowbay, Other	1	2	35	130
Relocated LED Lowbay, 4' LED Lowbay, Other	1	2	33	66
5-Supply Lobby (Common Space Types>Lobby - General) Relocated LED Lowbay, 4' LED Lowbay, Other	1	1	33	33

Project Title: ITD District 3 Maintenance Building Upgrades
 Data filename: Q:\2018\18059_0\Elec04_Calcs\COMcheck\18059 COMcheck.cck
 Report date: 06/01/18
 Page 1 of 6

Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps / Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
6-Offices (Common Space Types>Office - Enclosed) LED Grid, G1, 2' x 2' LED, LED Panel 39W	1	24	30	708
7-Break (Common Space Types>Lounge/Breakroom) Relocated LED Lowbay, 4' LED Lowbay, Other	1	1	33	33
8-Janitor (Common Space Types>Storage >=50 <<=1000 sq.ft.) Relocated LED Lowbay, 4' LED Lowbay, Other	1	1	33	33
9-Restrooms (Common Space Types>Restrooms) Vanity fixture, V1, LED Vanity Light, Other	1	2	33	67
10-Vending (Common Space Types>Lobby - General) Relocated LED Lowbay, 8' LED Lowbay, Other	1	2	35	130
Total Proposed Watts =			2843	

Interior Lighting PASSES: Design 8% better than code

Interior Lighting Compliance Statement
 Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.0.8.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

BRUNO LOZA - EIT
 Name - Title: Signature: Date: 6/1/2018

Project Title: ITD District 3 Maintenance Building Upgrades
 Data filename: Q:\2018\18059_0\Elec04_Calcs\COMcheck\18059 COMcheck.cck
 Report date: 06/01/18
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COMcheck Software Version 4.0.8.1 Inspection Checklist

Energy Code: 2015 IECC
 Requirements: 0.0% were addressed directly in the COMcheck software
 Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req. ID	Plan Review	Complies?	Comments/Assumptions
C103.2 (PR4)†	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C406 (PR5)†	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: ITD District 3 Maintenance Building Upgrades
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LIGHTING FIXTURE SCHEDULE

LIGHT FIXTURES INDICATED IN SCHEDULE ARE BUILDING STANDARD FIXTURES PREFERRED BY OWNER. SUBSTITUTED FIXTURES MUST MATCH SPECIFIED FIXTURE IN APPEARANCE, QUALITY AND PERFORMANCE. CONTRACTOR MAY PROVIDE ALTERNATE FIXTURES EQUAL TO THOSE INDICATED BELOW PROVIDED THEY MEET SPECIFIED CRITERIA AND ARE ACCEPTABLE TO THE OWNER. EQUALITY OF SUBSTITUTED FIXTURE IS SUBJECT TO REVIEW BY ARCHITECT AND ENGINEER AT TIME OF LIGHTING FIXTURE SUBMITTALS. CONTRACTOR SHALL PROVIDE FIXTURES INDICATED ON SCHEDULE FOR ANY FIXTURES DEEMED NOT EQUAL BY THE ENGINEER.

TYPE	DESCRIPTION/MANUFACTURER NO.	WATTS PER LUMINAIRE	LAMP TYPE	MOUNTING	NOTES
EX1	CONTEMPORARY THERMOPLASTIC EXIT SIGN, GREEN STENCIL, WHITE HOUSING, NICKEL-CADMIUM BATTERY LITHONIA: LQM-S-W-1-G-120/277-EL N	3	LED	UNIVERSAL	
EX2	EMERGENCY LIGHTING WALL MOUNTED, LED, LOW TEMPERATURE WET LABLED ENCLOSURE. LITHONIA: WLU-LED-ELA-T-Q-L0309	2.7	LED	WALL MOUNTED	
AFN	WALL MOUNTED EMERGENCY EGRESS DISCHARGE LIGHT, WET LABLED, NI-CAD BATTERY LITHONIA: AFN-BN-PREM-WL	1.5	LED	WALL	
L1	HIGH BAY LED LIGHT FIXTURE, BLACK SHROUD (TO MATCH EXISTING) EATON: SSDL-LD1-28-M-UNV-L840-C02-BLK-MP/SHK-U	280	LED	HOOK HANG FROM CEILING	SHOP AND STORAGE
G1	2' X 2' LED LIGHT FIXTURE, EATON: 2VTL2-33L-ADP-EZ1-LP840	280	LED	RECESSED IN CEILING	OFFICES
V1	SQUARE LED VANITY LIGHT FIXTURE LITHONIA: FMYSL-48N-MVOLT-30K-90CRI	33.3	LED	WALL MOUNTED	RESTROOMS

- NOTES:
- COORDINATE WITH MANUFACTURER FOR ALL REQUIRED MOUNTING HARDWARE
 - PROVIDE EMERGENCY BATTERY BACK UP FOR FIXTURES INDICATED. COORDINATE WITH MANUFACTURER.
 - LIGHT FIXTURE TO MATCH EXISTING IN SPACE. COORDINATE EXISTING FIXTURE MANUFACTURER PRIOR TO ORDERING AND MATCH TYPE.
 - COORDINATE EXISTING SUPPORT STRUCTURE FOR SECURE MOUNTING. NEW MOUNTING TO MATCH EXISTING.

Section # & Req. ID	Rough-in Electrical Inspection	Complies?	Comments/Assumptions
C405.2.1 (EL15)†	Lighting controls installed to uniformly reduce the lighting load by at least 50%.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.1 (EL18)†	Occupancy sensors installed in required spaces.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.1 (EL23)†	Independent lighting controls installed per approved lighting plans and all manual controls readily accessible and visible to occupants.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.2 (EL22)†	Automatic controls to shut off all building lighting installed in all buildings.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.3 (EL16)†	Daylight zones provided with individual controls that control the lights independent of general area lighting.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.3 (EL20)†	Primary sidelighted areas are equipped with required lighting controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.3 (EL21)†	Enclosed spaces with daylight area under skylights and rooftop monitors are equipped with required lighting controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.4 (EL4)†	Separate lighting control devices for specific uses installed per approved lighting plans.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.4 (EL8)†	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.3 (EL6)†	Exit signs do not exceed 5 watts per face.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: ITD District 3 Maintenance Building Upgrades
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Section # & Req. ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5 (F17)†	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.4.1 (F118)†	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Interior Lighting fixture schedule for values.
C408.2.5 (F116)†	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C408.3 (F133)†	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: ITD District 3 Maintenance Building Upgrades
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Project Title: ITD District 3 Maintenance Building Upgrades
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FOR CONSTRUCTION 6/25/18

PROJECT: 18059.00 DATE: 5-2-18

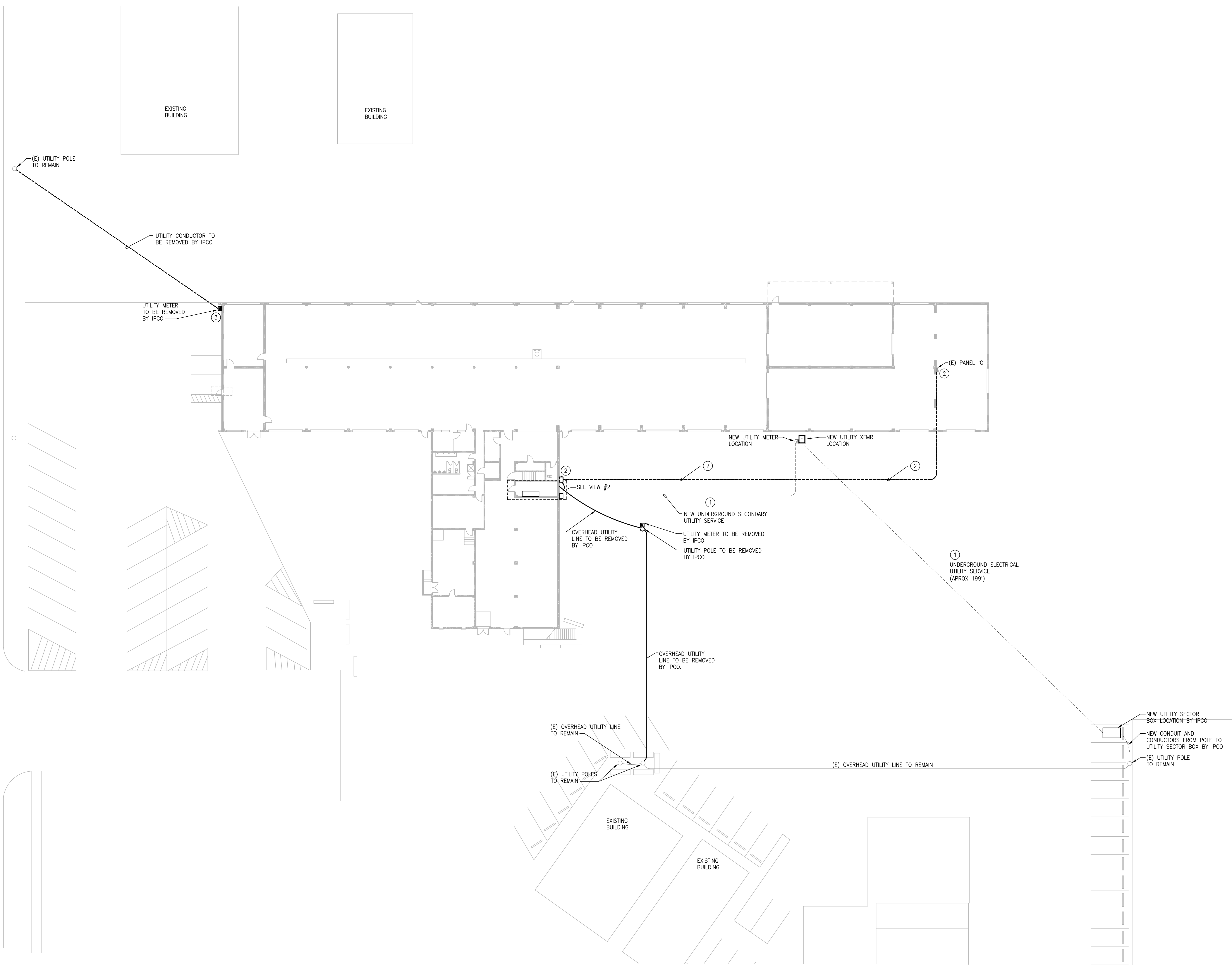
DRAWN: R/L CHECKED: JLB

REVISIONS:
 ADDENDUM 1 5-15-18, BL
 ADDENDUM 5 6-6-18, BL

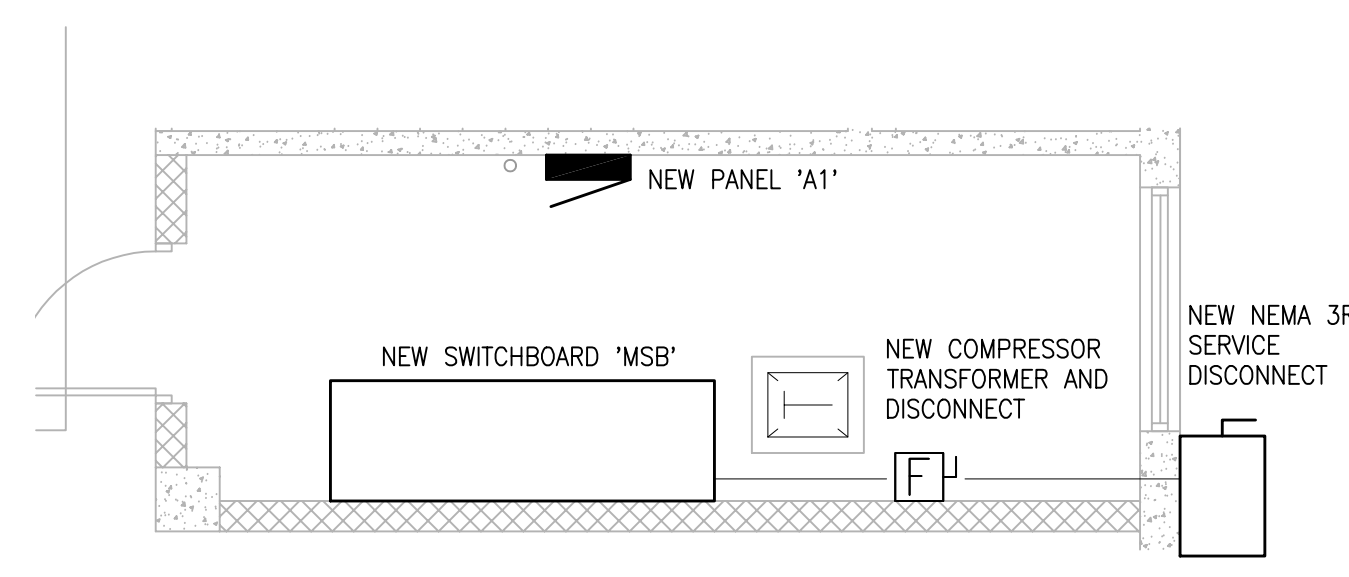
SHEET TITLE: SCHEDULES & COMPLIANCE FORMS

SHEET: E02

ORIGINAL SHEET SIZE 30" x 42"



1 ELECTRICAL SITE PLAN
SCALE 1" = 20'-0"



2 ELECTRIC ROOM
SCALE 1/4" = 1'-0"

GENERAL NOTES:

- A. FURNISH AND INSTALL PULLBOXES AND HANDHOLES FOR ALL SITE CONDUITS AS REQUIRED.
- B. FURNISH AND INSTALL PULL CORDS IN EACH NEW CONDUIT.
- C. COORDINATE AND COMPLY WITH ALL UTILITY STANDARDS AND REQUIREMENTS.
- D. ALL SITE ELECTRICAL CONDUCTORS BELOW GRADE SHALL BE ROUTED IN SCHEDULE 40 PVC CONDUIT, 1" MINIMUM. INSTALL AT DEPTH REQUIRED BY NEC FOR CONDITIONS OF INSTALLATION.
- E. ALL EXTERIOR ELECTRICAL BOXES, FITTINGS, AND CABINETS SHALL BE OF STEEL CONSTRUCTION, GALVANIZED OR POWER COATED, NEMA 3R TYPE, UNLESS OTHERWISE NOTED.
- F. COORDINATE WITH ALL ASSOCIATED SITE UTILITY ENTITIES PRIOR TO BEGINNING WORK.
- G. CONTRACTOR TO KEEP ACCURATE AS-BUILT INFORMATION FOR RECORD DRAWINGS FOR PROJECT COMPLETION.

SHEET NOTES:

- 1. TRENCH PER IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION NO. SD-306. COORDINATE WITH IDAHO POWER. COORDINATE WITH DIG-LINE TO MARK ANY UNDERGROUND UTILITIES PRIOR TO BEGINNING WORK.
- 2. EXISTING 200 AMP SERVICE DISCONNECT TO BE REMOVED. EXISTING FEEDER ROUTED UNDERGROUND TO EXISTING PANEL 'C'. REMOVE EXISTING CONDUCTOR AND PERMANENTLY SEAL UNDERGROUND CONDUIT AT BOTH ENDS. CONDUIT SHALL NOT BE REUSED.
- 3. EXISTING METER BASE TO BE REMOVED AND RETURNED TO OWNER. CAP EXISTING UNDERGROUND CONDUIT AT GRADE NEAR BUILDING.



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**FOR CONSTRUCTION
6/25/18**

PROJECT	DATE
18059.00	5-2-18
DRAWN	CHECKED
BL	JLB

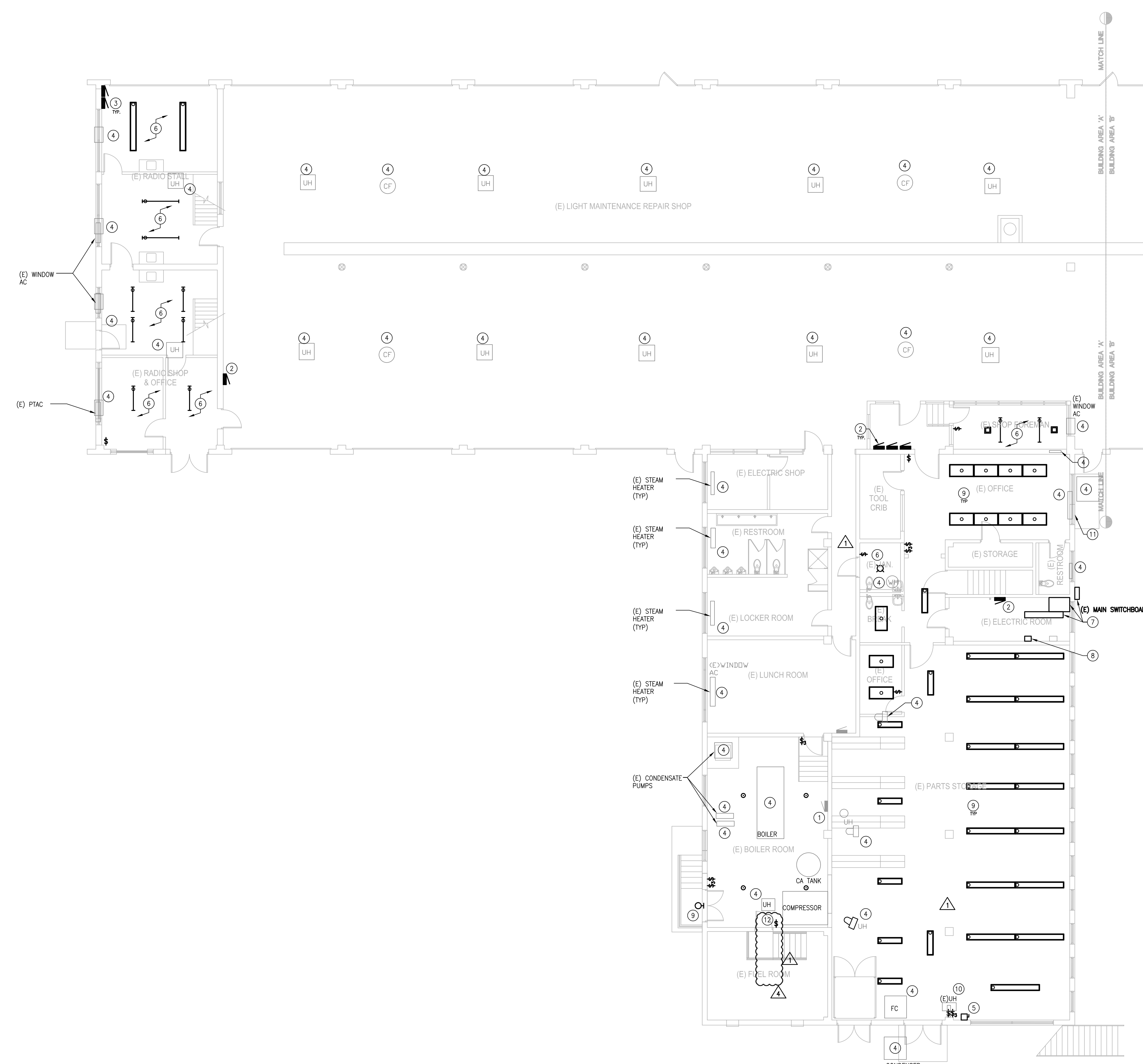
REVISIONS

SHEET TITLE
**ELECTRICAL
SITE PLAN**

SHEET

E03

ORIGINAL SHEET SIZE
30" x 42"



1 DEMOLITION PLAN GROUND FLOOR - AREA 'A'
SCALE 1/8" = 1'-0"

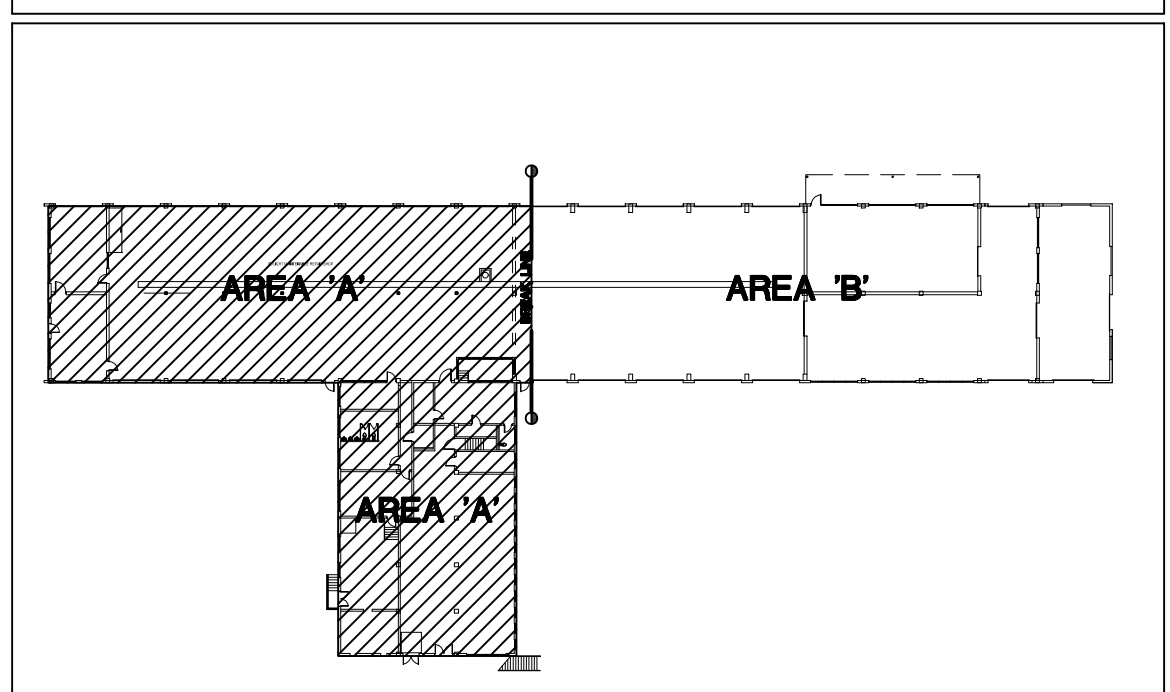
GENERAL NOTES:

- A. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE LOCALLY ADOPTED ELECTRICAL CODE, ALL LOCAL CODES, AND TO THE FULL ACCEPTANCE OF THE AUTHORITY HAVING JURISDICTION.
- B. OBTAIN ALL PERMITS, COORDINATE, FURNISH, INSTALL, CONNECT AND TEST ALL ELECTRICAL EQUIPMENT REQUIRED FOR ALL THE SYSTEMS INSTALLED UNDER THIS CONTRACT TO INSURE COMPLETE AND FULLY OPERATIONAL SYSTEMS.
- C. ALL EXISTING ELECTRICAL EQUIPMENT SHALL REMAIN FULLY FUNCTIONAL, UNO.
- D. PROTECT ALL EXISTING WORK FROM DAMAGE DURING CONSTRUCTION. ANY DAMAGED MATERIALS, SYSTEMS, COMPONENTS, FINISHES, AND THE LIKE, SHALL BE REPAIRED OR REPLACED AT THE EXPENSE OF THE CONTRACTOR TO THE ACCEPTANCE OF THE OWNER.
- E. DESIGN IS BASED ON BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS TO DETERMINE STATUS OF ACTUAL CONDITIONS AS THEY RELATE TO THE SCOPE OF WORK AS SHOWN ON THESE PLANS.
- F. CONTRACTOR SHALL DISPOSE OF THE REMOVED ELECTRICAL. DISPOSAL OF DEVICES SHALL COMPLY WITH ALL APPROPRIATE CODES. REUSE EXISTING CONDUITS AND JUNCTION BOXES AS IS PRACTICAL.
- G. ALL EXISTING CIRCUITS TO REMAIN THAT RUN THROUGH WALLS TO BE REMOVED SHALL BE REROUTED AND RECONNECTED. REPAIR AND PATCH ALL WALLS TO MATCH SURROUNDING SURFACES.
- H. IF A CIRCUIT TO REMAIN IS INTERRUPTED AS A RESULT OF WORK RELATING TO THIS PROJECT, THE CIRCUIT SHALL BE RE-ENERGIZED AS REQUIRED TO MAINTAIN POWER TO THE AFFECTED DEVICES.
- I. FOR CIRCUITS THAT ARE MADE SPARE, THE CIRCUIT BREAKER SHALL REMAIN IN PLACE. THE CIRCUIT CONDUCTORS SHALL BE DISCONNECTED FROM THE CIRCUIT BREAKER AND REMOVED FROM THE RACEWAY. THE CIRCUIT BREAKER SHALL BE MARKED SPARE.
- J. COORDINATE ALL PHASING WITH ALL OTHER DISCIPLINES PRIOR TO POWERING DOWN OR DISCONNECTING ANY EQUIPMENT.

① SHEET NOTES:

- 1. EXISTING PANEL TO BE RELOCATED.
- 2. EXISTING PANEL TO BE REMOVED AND REPLACED WITH NEW.
- 3. EXISTING PANEL TO BE REMOVED, DISCONNECT AND REMOVE ALL "DOWN STREAM" LOADS AND FEEDERS TO UTILITY METER.
- 4. EXISTING MECHANICAL EQUIPMENT TO BE REMOVED. DISCONNECT EXISTING ELECTRICAL CONNECTIONS, REMOVE ASSOCIATED CONDUIT AND CONDUCTORS. RE: SHEET M11.
- 5. EXISTING DISCONNECT FOR CONDENSER AND UNIT HEATER TO BE REMOVED, IF AVAILABLE, REUSE EXISTING CONDUIT AND CONDUCTORS FOR CONNECTION TO EXISTING UNIT HEATER.
- 6. EXISTING LIGHTS AND LIGHTING CONTROLS IN AREA TO BE REMOVED, DISCONNECT EXISTING ELECTRICAL CONNECTIONS. ENSURE ALL "DOWN STREAM" EQUIPMENT TO REMAIN REMAINS OPERATIONAL.
- 7. EXISTING MAIN SWITCHBOARD, SERVICE GUTTER, AND SERVICE DISCONNECT TO BE REMOVED AND REPLACED WITH NEW. COORDINATE POWER CUT OVER WITH ID40H POWER AND OWNER PRIOR TO BEGINNING WORK.
- 8. EXISTING DISCONNECT FOR DOWNSTREAM PANEL TO BE REMOVED. REMOVE ASSOCIATED CONDUIT AND CONDUCTORS.
- 9. EXISTING LIGHT FIXTURES IN THIS AREA TO BE REMOVED AND SALVAGED FOR REINSTALLATION. CAREFULLY DISCONNECT LIGHT FIXTURES AND REMOVE CONDUIT AND CONDUCTORS. CLEAN AND REPAIR ANY DAMAGE TO LIGHT FIXTURES. SEE LIGHTING PLAN E11A FOR NEW LOCATIONS.
- 10. EXISTING HEATER TO BE RELOCATED TO SECURE STORAGE ROOM. SEE SHEET E31A FOR NEW LOCATION.
- 11. EXISTING ELECTRICAL CONDUIT TO BE RE-ROUTED FOR NEW DOOR. COORDINATE NEW CONDUIT PATH WITH ALL OTHER DISCIPLINES.
- 12. EXISTING SWITCH TO BE REMOVED AND RELOCATED. EXISTING CONDUIT AND CONDUCTORS TO BE REUSED AND EXTENDED TO NEW SWITCH LOCATION.

BUILDING KEY PLAN



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**FOR CONSTRUCTION
6/25/18**

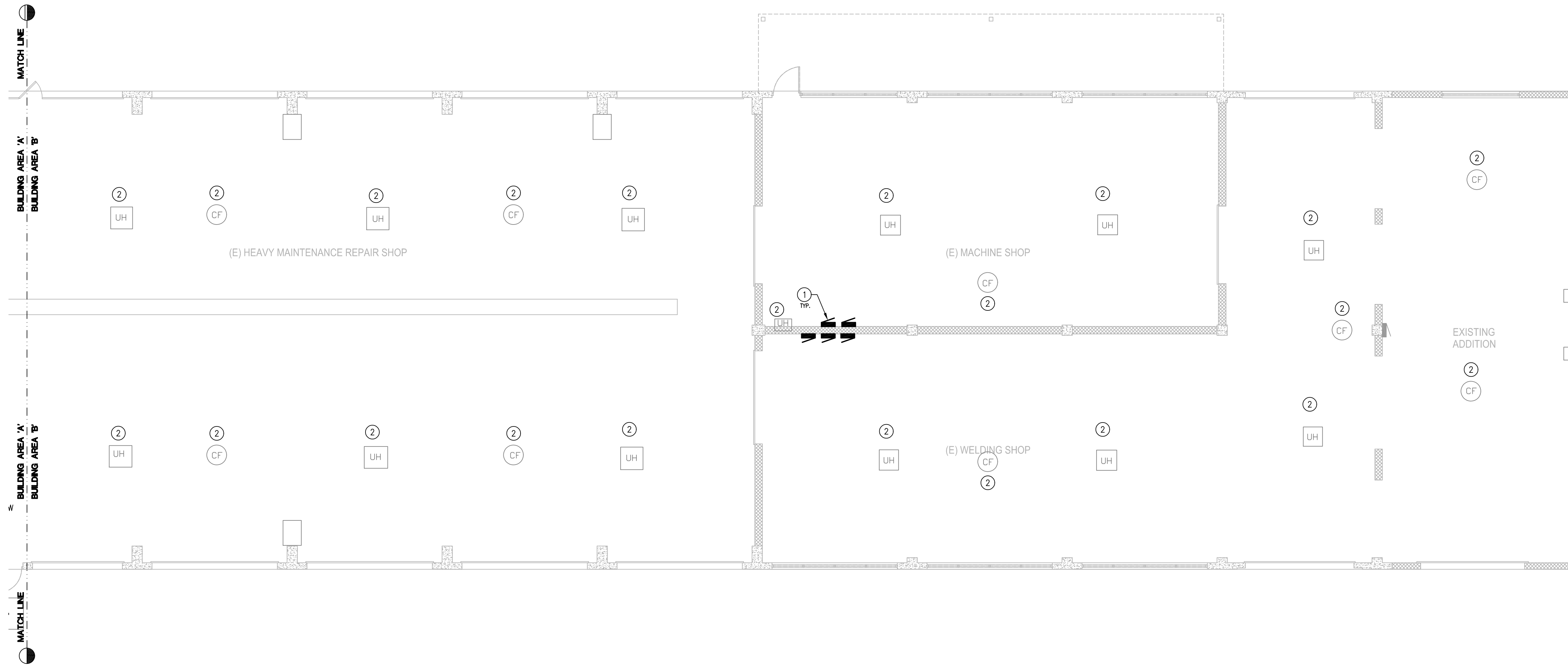
PROJECT	18059.00	DATE	5-2-18
DRAWN	BL	CHECKED	JLB

- REVISED
- ▲ ADDENDUM 1
5-15-18, BL
 - ▲ ADDENDUM 5
6-6-18, BL

SHEET TITLE
**DEMOLITION
PLAN GROUND
FLOOR**

SHEET
E04A

ORIGINAL SHEET SIZE
30" x 42"



DEMOLITION PLAN GROUND FLOOR - AREA 'B'
SCALE 1/8" = 1'-0"

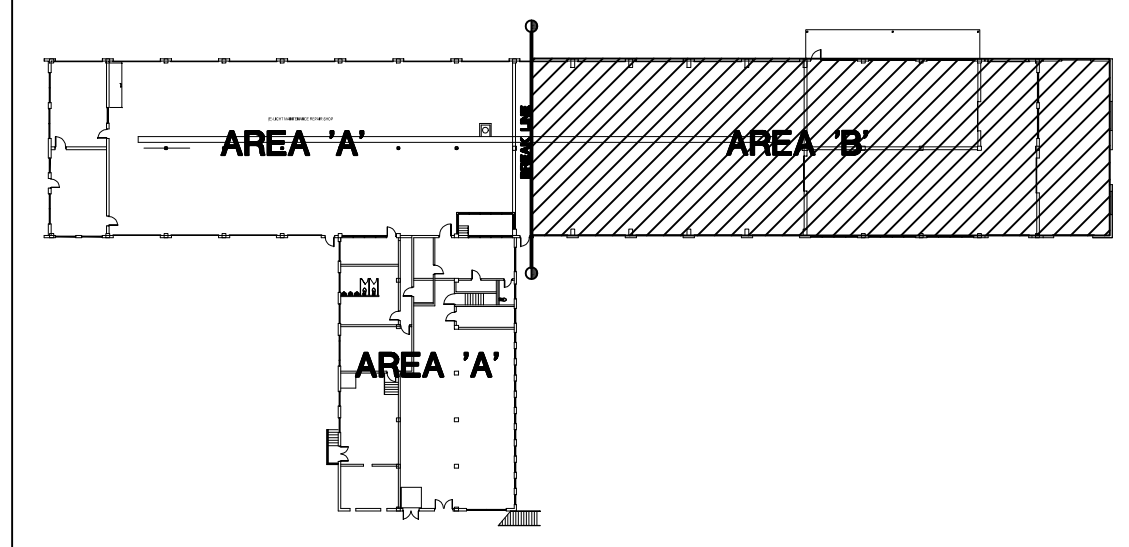
GENERAL NOTES:

- A. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE LOCALLY ADOPTED ELECTRICAL CODE, ALL LOCAL CODES, AND TO THE FULL ACCEPTANCE OF THE AUTHORITY HAVING JURISDICTION.
- B. OBTAIN ALL PERMITS, COORDINATE, FURNISH, INSTALL, CONNECT AND TEST ALL ELECTRICAL EQUIPMENT REQUIRED FOR ALL THE SYSTEMS INSTALLED UNDER THIS CONTRACT TO INSURE COMPLETE AND FULLY OPERATIONAL SYSTEMS.
- C. ALL EXISTING ELECTRICAL EQUIPMENT SHALL REMAIN FULLY FUNCTIONAL, UON.
- D. PROTECT ALL EXISTING WORK FROM DAMAGE DURING CONSTRUCTION. ANY DAMAGED MATERIALS, SYSTEMS, COMPONENTS, FINISHES, AND THE LIKE, SHALL BE REPAIRED OR REPLACED AT THE EXPENSE OF THE CONTRACTOR TO THE ACCEPTANCE OF THE OWNER.
- E. DESIGN IS BASED ON BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS TO DETERMINE STATUS OF ACTUAL CONDITIONS AS THEY RELATE TO THE SCOPE OF WORK AS SHOWN ON THESE PLANS.
- F. CONTRACTOR SHALL DISPOSE OF THE REMOVED ELECTRICAL. DISPOSAL OF DEVICES SHALL COMPLY WITH ALL APPROPRIATE CODES. REUSE EXISTING CONDUITS AND JUNCTION BOXES AS IS PRACTICAL.
- G. ALL EXISTING CIRCUITS TO REMAIN THAT RUN THROUGH WALLS TO BE REMOVED SHALL BE REROUTED AND RECONNECTED. REPAIR AND PATCH ALL WALLS TO MATCH SURROUNDING SURFACES.
- H. IF A CIRCUIT TO REMAIN IS INTERRUPTED AS A RESULT OF WORK RELATING TO THIS PROJECT, THE CIRCUIT SHALL BE RE-ENERGIZED AS REQUIRED TO MAINTAIN POWER TO THE AFFECTED DEVICES.
- I. FOR CIRCUITS THAT ARE MADE SPARE, THE CIRCUIT BREAKER SHALL REMAIN IN PLACE. THE CIRCUIT CONDUCTORS SHALL BE DISCONNECTED FROM THE CIRCUIT BREAKER AND REMOVED FROM THE RACEWAY. THE CIRCUIT BREAKER SHALL BE MARKED SPARE.
- J. COORDINATE ALL PHASING WITH ALL OTHER DISCIPLINES PRIOR TO POWERING DOWN OR DISCONNECTING ANY EQUIPMENT.

SHEET NOTES:

- 1. EXISTING PANEL TO BE REMOVED AND REPLACED WITH NEW.
- 2. EXISTING MECHANICAL EQUIPMENT TO BE REMOVED. DISCONNECT EXISTING ELECTRICAL CONNECTIONS. REMOVE ASSOCIATED CONDUIT AND CONDUCTORS. RE: SHEET M11.

BUILDING KEY PLAN



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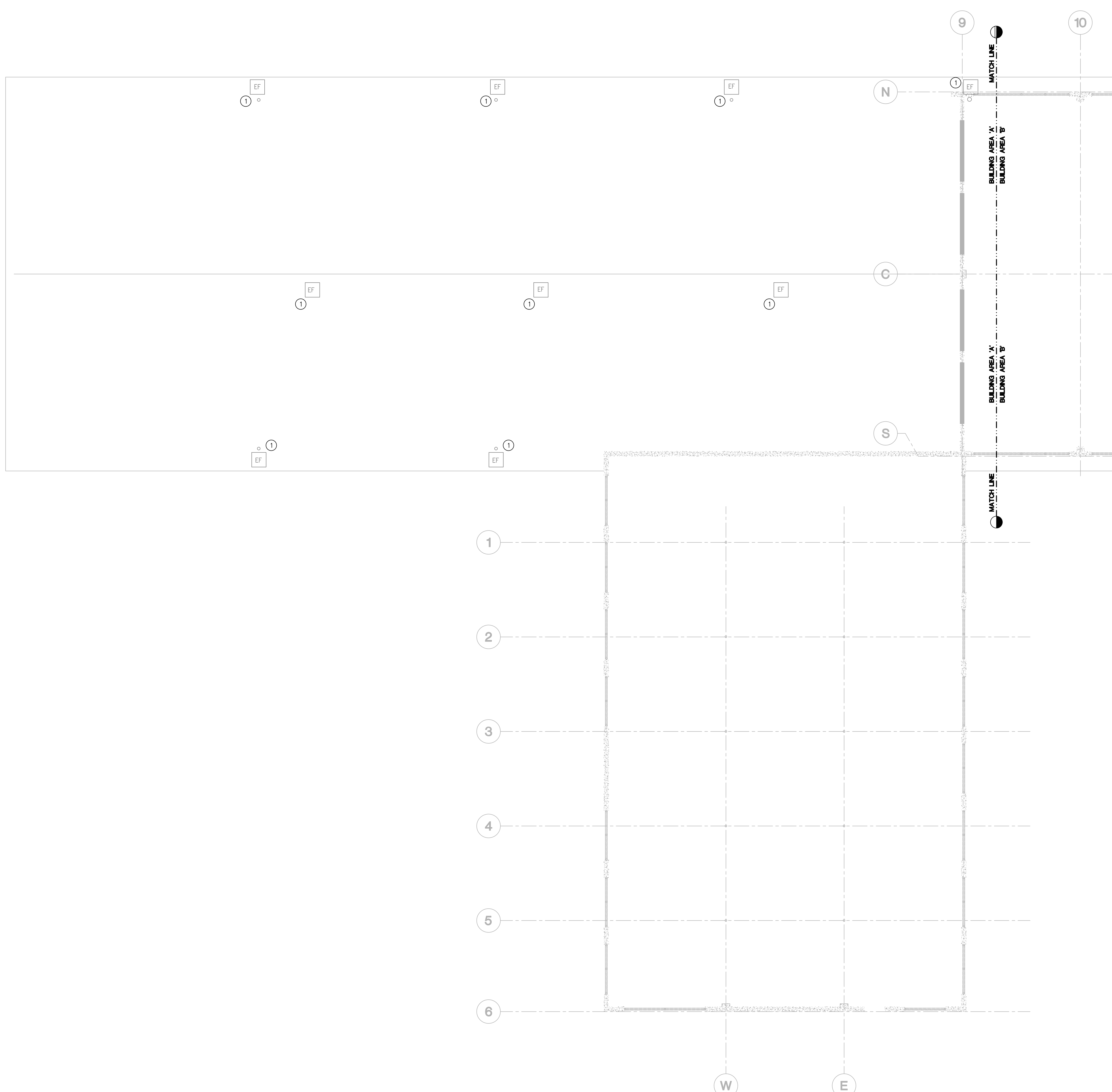
PROJECT	DATE
18059.00	5-2-18
DRAWN	CHECKED
BL	JLB

REVISED

SHEET TITLE
**DEMOLITION
PLAN GROUND
FLOOR**

SHEET
E04B

ORIGINAL SHEET SIZE
30" x 42"



DEMOLITION PLAN ROOF - AREA 'A'
SCALE 1/8" = 1'-0"

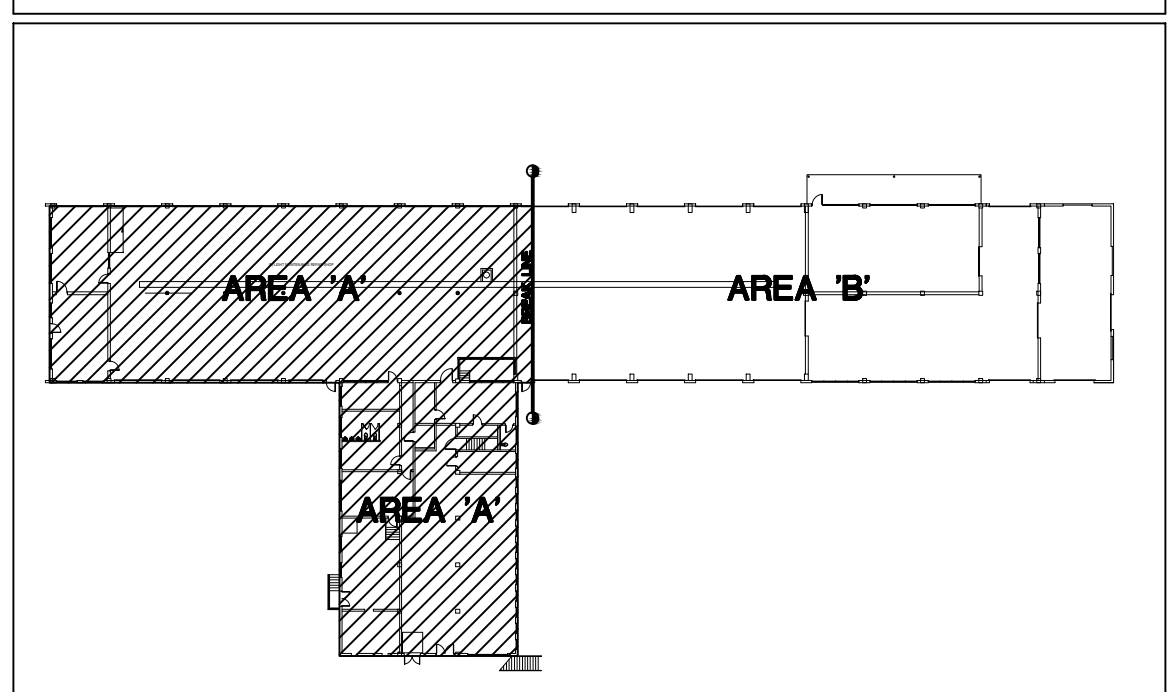
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- I. FOR CIRCUITS THAT ARE MADE SPARE, THE CIRCUIT BREAKER SHALL REMAIN IN PLACE. THE CIRCUIT CONDUCTORS SHALL BE DISCONNECTED FROM THE CIRCUIT BREAKER AND REMOVED FROM THE RACEWAY. THE CIRCUIT BREAKER SHALL BE MARKED SPARE.
- J. COORDINATE ALL PHASING WITH ALL OTHER DISCIPLINES PRIOR TO POWERING DOWN OR DISCONNECTING ANY EQUIPMENT.

SHEET NOTES:

- 1. EXISTING MECHANICAL EQUIPMENT TO BE REMOVED. DISCONNECT EXISTING ELECTRICAL CONNECTIONS; REMOVE ASSOCIATED CONDUIT AND CONDUCTORS. RE: SHEET M11.

BUILDING KEY PLAN



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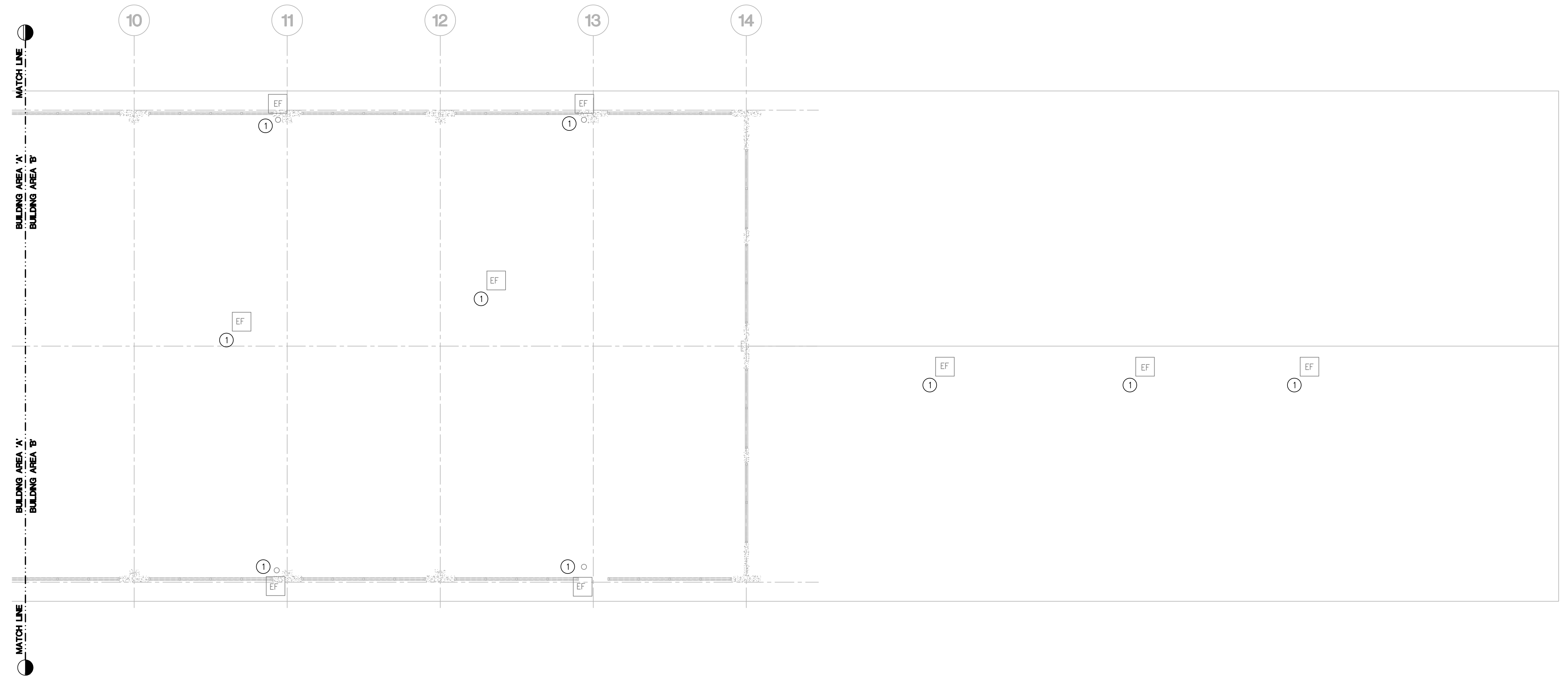
PROJECT 18059.00	DATE 5-2-18
DRAWN BL	CHECKED JLB

REVISED

SHEET TITLE
**DEMOLITION
PLAN ROOF**

SHEET
E05A

ORIGINAL SHEET SIZE
30" x 42"



1 DEMOLITION PLAN ROOF - AREA 'B'
SCALE 1/8" = 1'-0"

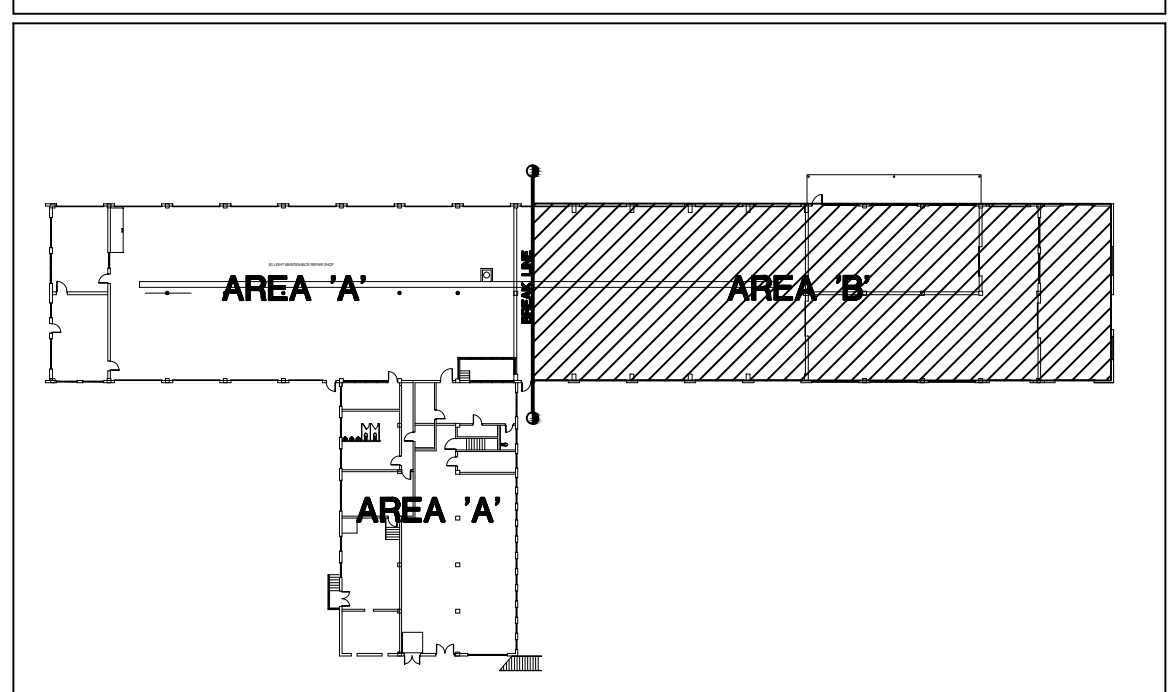
GENERAL NOTES:

- A. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE LOCALLY ADOPTED ELECTRICAL CODE, ALL LOCAL CODES, AND TO THE FULL ACCEPTANCE OF THE AUTHORITY HAVING JURISDICTION.
- B. OBTAIN ALL PERMITS, COORDINATE, FURNISH, INSTALL, CONNECT AND TEST ALL ELECTRICAL EQUIPMENT REQUIRED FOR ALL THE SYSTEMS INSTALLED UNDER THIS CONTRACT TO INSURE COMPLETE AND FULLY OPERATIONAL SYSTEMS.
- C. ALL EXISTING ELECTRICAL EQUIPMENT SHALL REMAIN FULLY FUNCTIONAL, UON.
- D. PROTECT ALL EXISTING WORK FROM DAMAGE DURING CONSTRUCTION. ANY DAMAGED MATERIALS, SYSTEMS, COMPONENTS, FINISHES, AND THE LIKE, SHALL BE REPAIRED OR REPLACED AT THE EXPENSE OF THE CONTRACTOR TO THE ACCEPTANCE OF THE OWNER.
- E. DESIGN IS BASED ON BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS TO DETERMINE STATUS OF ACTUAL CONDITIONS AS THEY RELATE TO THE SCOPE OF WORK AS SHOWN ON THESE PLANS.
- F. CONTRACTOR SHALL DISPOSE OF THE REMOVED ELECTRICAL. DISPOSAL OF DEVICES SHALL COMPLY WITH ALL APPROPRIATE CODES. REUSE EXISTING CONDUITS AND JUNCTION BOXES AS IS PRACTICAL.
- G. ALL EXISTING CIRCUITS TO REMAIN THAT RUN THROUGH WALLS TO BE REMOVED SHALL BE REROUTED AND RECONNECTED. REPAIR AND PATCH ALL WALLS TO MATCH SURROUNDING SURFACES.
- H. IF A CIRCUIT TO REMAIN IS INTERRUPTED AS A RESULT OF WORK RELATING TO THIS PROJECT, THE CIRCUIT SHALL BE RE-ENERGIZED AS REQUIRED TO MAINTAIN POWER TO THE AFFECTED DEVICES.
- I. FOR CIRCUITS THAT ARE MADE SPARE, THE CIRCUIT BREAKER SHALL REMAIN IN PLACE. THE CIRCUIT CONDUCTORS SHALL BE DISCONNECTED FROM THE CIRCUIT BREAKER AND REMOVED FROM THE RACEWAY. THE CIRCUIT BREAKER SHALL BE MARKED SPARE.
- J. COORDINATE ALL PHASING WITH ALL OTHER DISCIPLINES PRIOR TO POWERING DOWN OR DISCONNECTING ANY EQUIPMENT.

1 SHEET NOTES:

- 1. EXISTING MECHANICAL EQUIPMENT TO BE REMOVED. DISCONNECT EXISTING ELECTRICAL CONNECTIONS; REMOVE ASSOCIATED CONDUIT AND CONDUCTORS. RE: SHEET M11.

BUILDING KEY PLAN



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GARDEN CITY, ID**



**FOR CONSTRUCTION
6/25/18**

PROJECT 18059.00	DATE 5-2-18
DRAWN BL	CHECKED JLB

REVISED

SHEET TITLE
**DEMOLITION
PLAN ROOF**

SHEET
E05B

ORIGINAL SHEET SIZE
30" x 42"

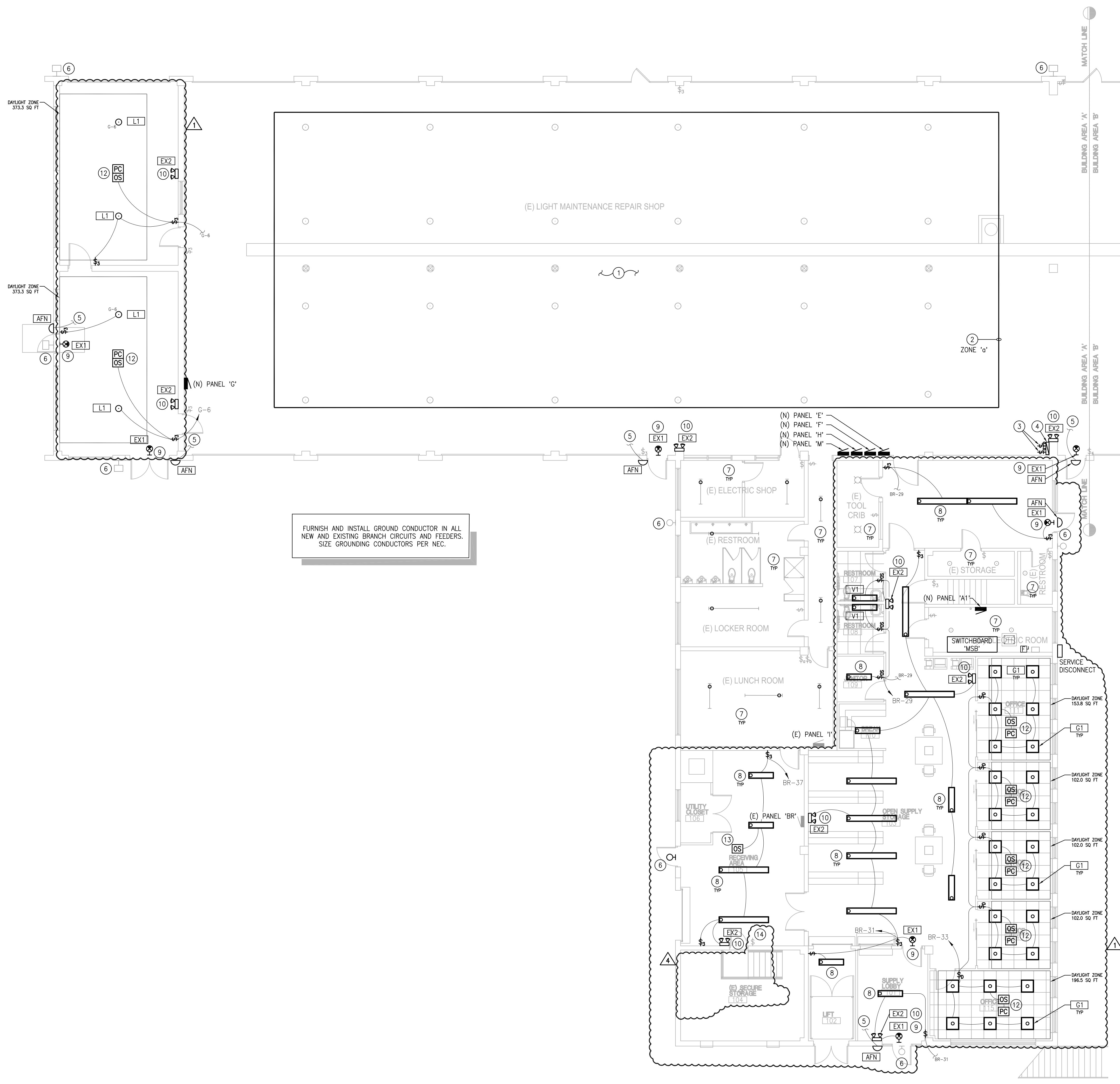


GENERAL NOTES:

- A. ALL ELECTRICAL WORK SHALL BE CLOSELY COORDINATED WITH THE CONTRACTORS PHASING OF THE PROJECT. COORDINATE ALL ELECTRICAL WORK WITH ALL OTHER TRADES.
- B. MAKE ALL CONNECTIONS TO EQUIPMENT PER MANUFACTURER'S REQUIREMENTS.
- C. ROUTE ALL CONDUIT HOME RUNS TO PANELS OVERHEAD AND ABOVE ACCESSIBLE CEILINGS WHERE AVAILABLE.
- D. ALL LIGHT FIXTURES SHALL BE 120 VOLT, UNLESS OTHERWISE NOTED.
- E. SHADED FIXTURE SHALL BE ON EMERGENCY/NIGHTLIGHT CIRCUIT AND SHALL NOT HAVE EMERGENCY BALLAST INSTALLED UNLESS OTHERWISE NOTED.
- F. ALL EXIT SIGNS AND NIGHT LIGHTS SHALL BE WIRED FOR CONTINUOUS OPERATION.
- G. FURNISH AND INSTALL 100W RATED DIMMER SWITCH FOR CONTROL OF LIGHT FIXTURES AS INDICATED. DERATING IS REQUIRED IF MULTI-GANGED AND CONTROL FINS/SIDE SECTIONS ARE REMOVED. COORDINATE WITH DIMMER SWITCH MANUFACTURER'S INSTALLATION REQUIREMENTS.
- H. COORDINATE ALL UNDER CABINET LIGHTING WITH MILLWORK BEING INSTALLED AND ARCHITECTURAL ELEVATIONS. CONTRACTOR SHALL CONCEAL ALL CONDUIT.
- I. ALL FINAL LOCATIONS AND ARRANGEMENTS OF CEILING LIGHTING FIXTURES SHALL BE COORDINATED WITH ALL OTHER TRADES.
- J. EACH SWITCH BOX SHALL HAVE A GROUND AND ASSOCIATED LIGHTING CIRCUIT NEUTRAL CONDUCTOR.
- K. THE CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT PANEL DIRECTORIES FOR ALL PANELS THAT CONTAIN CIRCUITS IMPACTED BY THIS PROJECT.

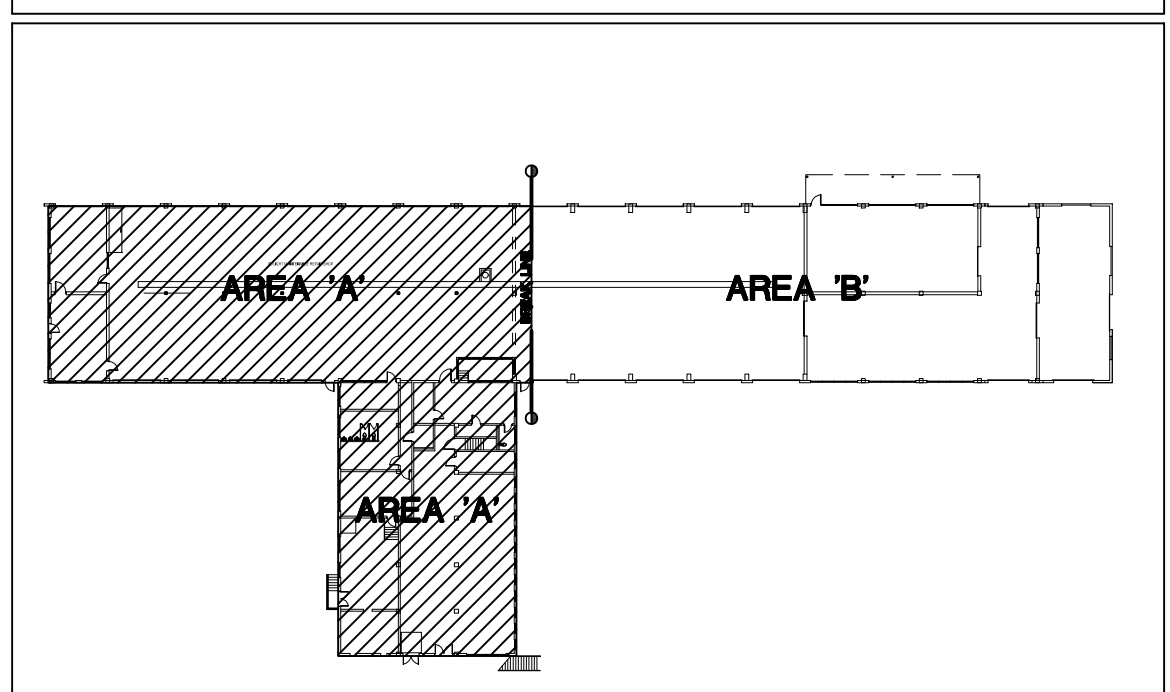
① SHEET NOTES:

- 1. EXISTING LIGHTING IN THIS AREA TO REMAIN. COORDINATE EXISTING CONDITIONS FOR NEW SWITCHING. FURNISH AND INSTALL NEW EQUIPMENT GROUND CONDUCTOR TO EACH FIXTURE.
- 2. CIRCUITS FOR LIGHT FIXTURES IN THIS AREA TO BE ROUTED THROUGH LIGHTING CONTROL PANEL AND CONTROLLED BY LOCAL AREA SWITCH AS INDICATED.
- 3. NEW LOCAL AREA LIGHTING CONTROL SWITCH FOR ZONE AS INDICATED. FURNISH AND INSTALL ALL CONDUIT, CONDUCTORS, J-BOXES AND SWITCHES AS REQUIRED FOR A COMPLETE INSTALLATION.
- 4. LIGHTING CONTROL PANEL WITH LOCAL AREA SWITCH(ES) BELOW.
- 5. BATTERY BACKED EMERGENCY EGRESS FIXTURE. MOUNT AT 8'-5" A.F.F. INTERCEPT CLOSEST EXISTING LIGHTING CIRCUIT AND CONNECT TO UNSWITCHED LEG. FIXTURE TO OPERATE IN THE EVENT OF POWER FAILURE.
- 6. EXISTING EXTERIOR LIGHTING TO BE CONTROLLED BY NEW PHOTOCELL LOCATED ON ROOF. INTERCEPT EXISTING CIRCUIT AND ROUTE THROUGH CONTACTOR PANEL FOR PHOTOCELL CONTROL. CONTRACTOR TO VERIFY CIRCUIT QUANTITIES AND PROVIDE CONTACTORS AS REQUIRED. SEE E118 FOR ADDITIONAL INFORMATION.
- 7. EXISTING LIGHT FIXTURES AND CONTROLS TO REMAIN.
- 8. RELOCATED SURFACE MOUNTED LED LIGHT FIXTURE. COORDINATE WITH OWNER FOR SALVAGED LIGHTS. RECONNECT PER MANUFACTURER'S REQUIREMENTS. FIXTURES TO BE MOUNTED TO BOTTOM OF STRUCTURE.
- 9. NEW EXIT SIGN. FIELD COORDINATE MOUNTING CONDITIONS AND INSTALL PER MANUFACTURER'S REQUIREMENTS. INTERCEPT 120V, UNSWITCHED GENERAL BRANCH LIGHTING CIRCUIT FOR THE AREA AND EXTEND TO EXIT SIGN.
- 10. EMERGENCY LIGHTING. PROVIDE POWER VIA UNSWITCHED LEG OF CIRCUIT. FIELD COORDINATE MOUNTING CONDITIONS. MOUNT LIGHT FIXTURE AT 10'-0" ABOVE FINISHED GRADE. AIM HEADS TO ILLUMINATE PATH OF EGRESS. COORDINATE WITH ARCHITECTURE.
- 11. NOT USED.
- 12. AREA LIGHTING TO BE CONTROLLED BY OCCUPANCY SENSOR AND PHOTOCELL WITH A LOCAL OVERRIDE. ROUTE POWER TO OCCUPANCY SENSOR AND PHOTOCELL PRIOR TO SWITCH AND LIGHT FIXTURES, TO MAINTAIN CONTINUOUS POWER TO SENSORS. FURNISH AND INSTALL SENSORS WITH RANGE TO FULLY DETECT THE AREA BEING CONTROLLED.
- 13. AREA LIGHTING TO BE CONTROLLED BY OCCUPANCY SENSOR AND LOCAL OVERRIDE. ROUTE POWER TO OCCUPANCY SENSOR PRIOR TO SWITCH AND LIGHT FIXTURES, TO MAINTAIN CONTINUOUS POWER TO SENSORS. FURNISH AND INSTALL OCCUPANCY SENSOR WITH RANGE TO FULLY DETECT THE AREA BEING CONTROLLED.
- 14. EXISTING LIGHTING SWITCH TO BE RELOCATED AT 48" ABOVE NEW RECEIVING AREA FURNISHED FLOOR. INTERCEPT AND EXTEND EXISTING CONTROL WIRING AND CONDUIT TO NEW LOCATION.



FURNISH AND INSTALL GROUND CONDUCTOR IN ALL NEW AND EXISTING BRANCH CIRCUITS AND FEEDERS. SIZE GROUNDING CONDUCTORS PER NEC.

BUILDING KEY PLAN



1 LIGHTING PLAN GROUND FLOOR - AREA 'A'
SCALE 1/8" = 1'-0"



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**FOR CONSTRUCTION
6/25/18**

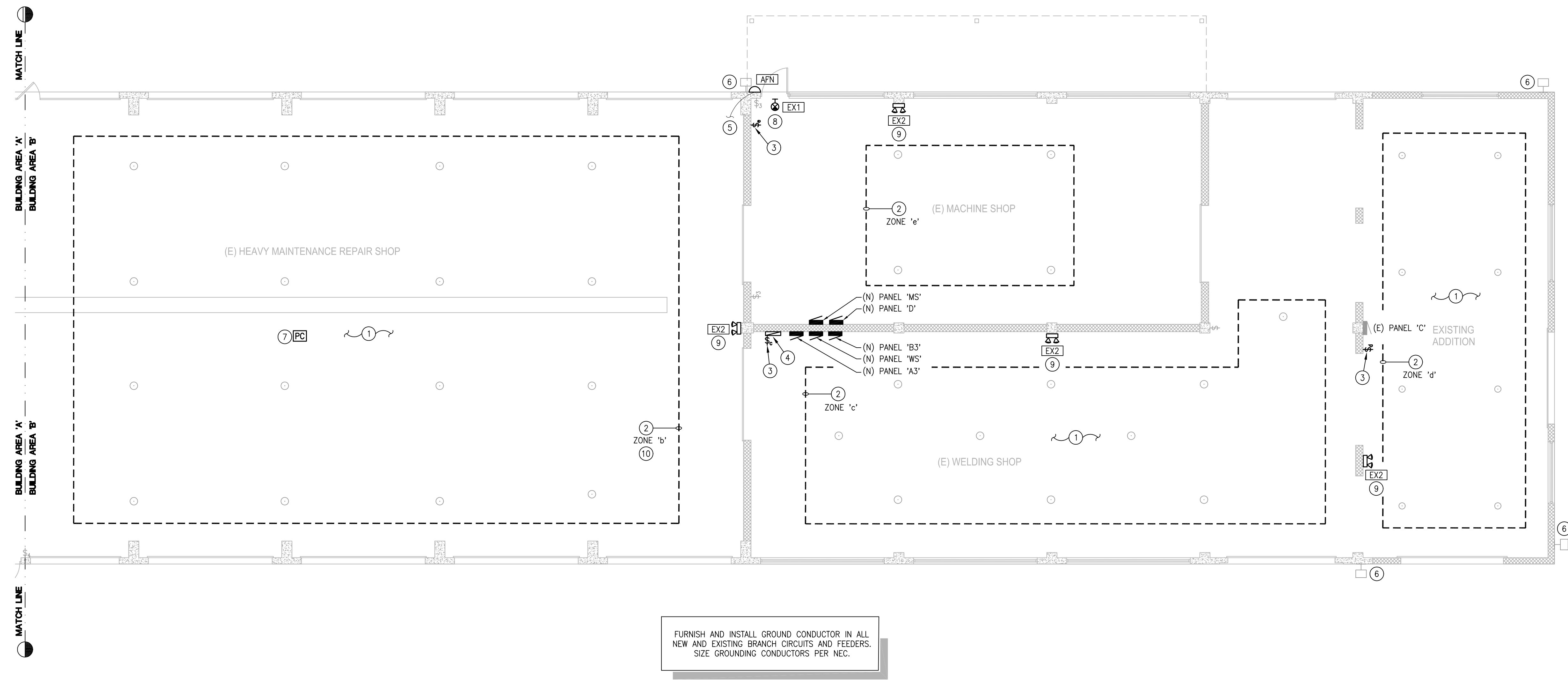
PROJECT 18059.00 DATE 5-2-18
DRAWN RJL CHECKED JLB
REVISED
▲ ADDENDUM 1 5-15-18, BL
▲ ADDENDUM 5 6-6-18, BL

CSHOA

SHEET TITLE
**LIGHTING PLAN
GROUND FLOOR**

SHEET
E11A

ORIGINAL SHEET SIZE
30" x 42"



1 LIGHTING PLAN GROUND FLOOR - AREA 'B'
SCALE 1/8" = 1'-0"

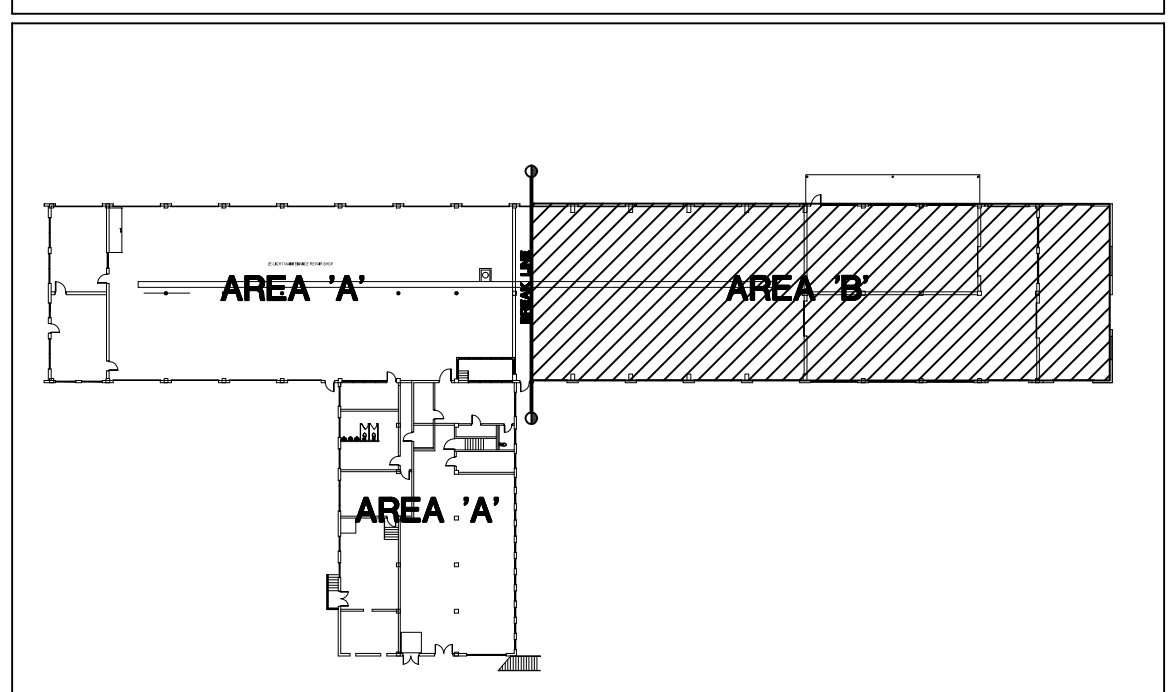
GENERAL NOTES:

- A. ALL ELECTRICAL WORK SHALL BE CLOSELY COORDINATED WITH THE CONTRACTORS PHASING OF THE PROJECT. COORDINATE ALL ELECTRICAL WORK WITH ALL OTHER TRADES.
- B. MAKE ALL CONNECTIONS TO EQUIPMENT PER MANUFACTURER'S REQUIREMENTS.
- C. ROUTE ALL CONDUIT HOME RUNS TO PANELS OVERHEAD AND ABOVE ACCESSIBLE CEILINGS WHERE AVAILABLE.
- D. ALL LIGHT FIXTURES SHALL BE 120 VOLT, UNLESS OTHERWISE NOTED.
- E. SHADED FIXTURE SHALL BE ON EMERGENCY/NIGHTLIGHT CIRCUIT AND SHALL NOT HAVE EMERGENCY BALLAST INSTALLED UNLESS OTHERWISE NOTED.
- F. ALL EXIT SIGNS AND NIGHT LIGHTS SHALL BE WIRED FOR CONTINUOUS OPERATION.
- G. FURNISH AND INSTALL 1000W RATED DIMMER SWITCH FOR CONTROL OF LIGHT FIXTURES AS INDICATED. DERATING IS REQUIRED IF MULTI-GANGED AND CONTROL FINS/SIDE SECTIONS ARE REMOVED. COORDINATE WITH DIMMER SWITCH MANUFACTURER'S INSTALLATION REQUIREMENTS.
- H. COORDINATE ALL UNDER CABINET LIGHTING WITH MILLWORK BEING INSTALLED AND ARCHITECTURAL ELEVATIONS. CONTRACTOR SHALL CONCEAL ALL CONDUIT.
- I. ALL FINAL LOCATIONS AND ARRANGEMENTS OF CEILING LIGHTING FIXTURES SHALL BE COORDINATED WITH ALL OTHER TRADES.
- J. EACH SWITCH BOX SHALL HAVE A GROUND AND ASSOCIATED LIGHTING CIRCUIT NEUTRAL CONDUCTOR.
- K. THE CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT PANEL DIRECTORIES FOR ALL PANELS THAT CONTAIN CIRCUITS IMPACTED BY THIS PROJECT.

2 SHEET NOTES:

- 1. EXISTING LIGHTING IN THIS AREA TO REMAIN. NEW EQUIPMENT GROUND CONDUCTOR TO BE PULLED TO EACH FIXTURE.
- 2. CIRCUITS FOR EXISTING LIGHT FIXTURES IN THIS AREA TO BE ROUTED THROUGH LIGHTING CONTROL PANEL AND CONTROLLED BY LOCAL AREA SWITCH AS INDICATED. SEE AREA A FOR SWITCH LOCATION.
- 3. NEW LOCAL AREA LIGHTING CONTROL SWITCH FOR ZONE AS INDICATED. FURNISH AND INSTALL ALL CONDUIT, CONDUCTORS, J-BOXES AND SWITCHES AS REQUIRED FOR A COMPLETE INSTALLATION.
- 4. LIGHTING CONTROL PANEL WITH LOCAL AREA SWITCH(ES) BELOW.
- 5. BATTERY BACKED EMERGENCY EGRESS FIXTURE. MOUNT AT 8'-6" A.F.F. INTERCEPT CLOSEST EXISTING LIGHTING CIRCUIT AND CONNECT TO UNSWITCHED LEG. FIXTURE TO OPERATE IN THE EVENT OF POWER FAILURE.
- 6. EXISTING EXTERIOR LIGHTING TO BE CONTROLLED BY PHOTOCELL LOCATED ON ROOF. INTERCEPT EXISTING CIRCUITS AND ROUTE THROUGH CONTACTOR PANEL FOR PHOTOCELL CONTROL. CONTRACTOR TO VERIFY CIRCUIT QUANTITIES AND PROVIDE CONTACTORS AS REQUIRED. SEE E1.1B FOR ADDITIONAL INFORMATION.
- 7. FURNISH AND INSTALL NEW PHOTOCELL ON ROOF. COORDINATE WITH NEW LIGHTING CONTROL PANEL SYSTEM.
- 8. NEW EXIT SIGN. FIELD COORDINATE MOUNTING CONDITIONS AND INSTALL PER MANUFACTURER'S REQUIREMENTS. INTERCEPT 120V, UNSWITCHED GENERAL BRANCH LIGHTING CIRCUIT FOR THE AREA AND EXTEND TO EXIT SIGN.
- 9. EMERGENCY LIGHTING TO BE CONNECTED TO GENERAL LIGHTING CIRCUIT IN THE AREA CAPABLE OF ACCEPTING ADDITIONAL LOAD. INTERCEPT AND EXTEND TO LIGHT FIXTURE. FIELD COORDINATE MOUNTING CONDITIONS. MOUNT LIGHT FIXTURE AT 10'-0" ABOVE FINISHED GRADE. AIM HEADS TO ILLUMINATE PATH OF EGRESS. COORDINATE WITH ARCHITECTURE.
- 10. SWITCH LOCATED IN AREA 'A'.

BUILDING KEY PLAN



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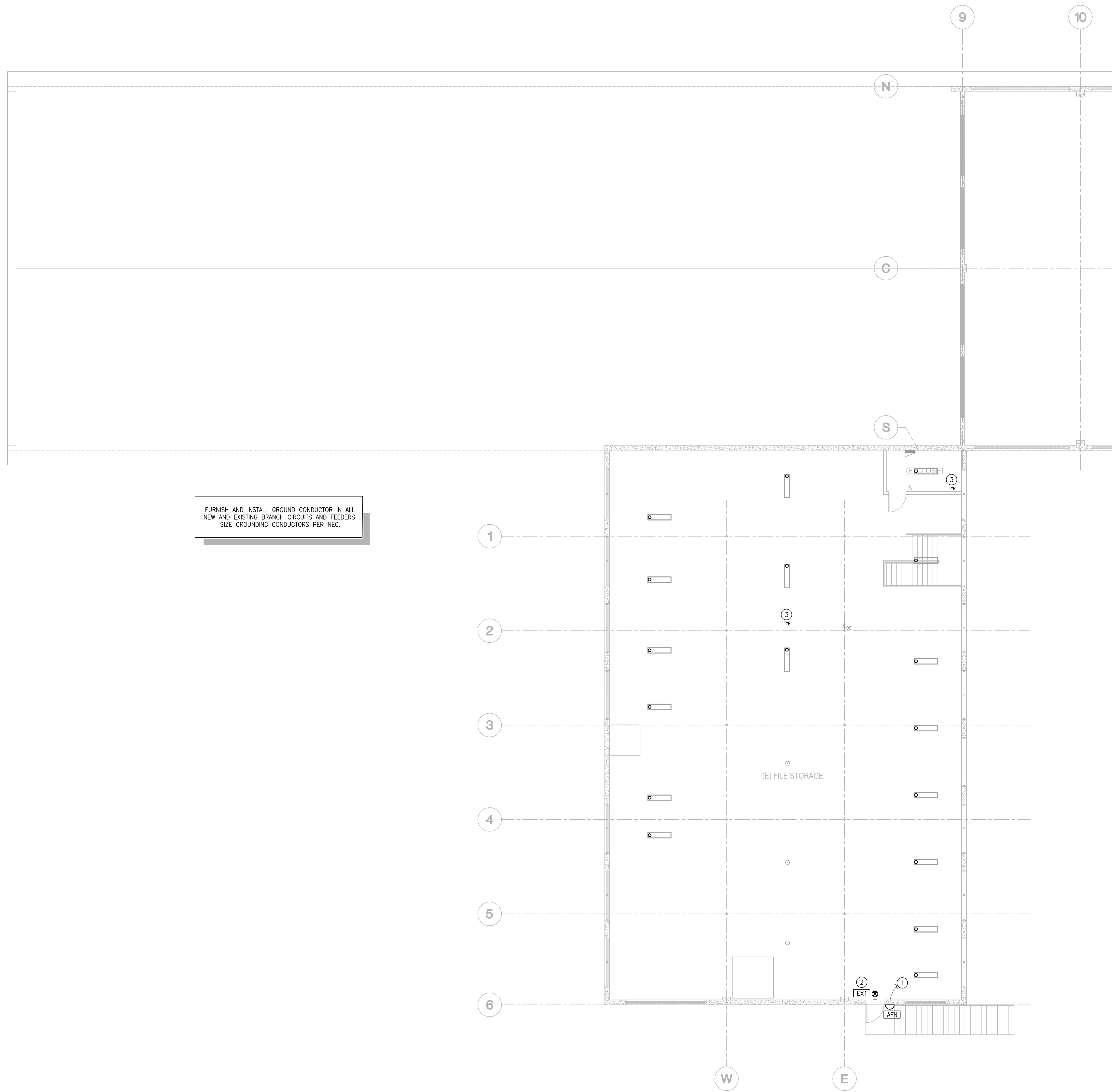
**FOR CONSTRUCTION
6/25/18**

PROJECT: 18059.00 DATE: 5-2-18
DRAWN: RJL CHECKED: JLB
REVISED:

SHEET TITLE: **LIGHTING PLAN GROUND FLOOR**

SHEET: **E11B**

ORIGINAL SHEET SIZE: 30" x 42"



1 LIGHTING PLAN SECOND FLOOR - AREA 'A'
SCALE 1/8" = 1'-0"

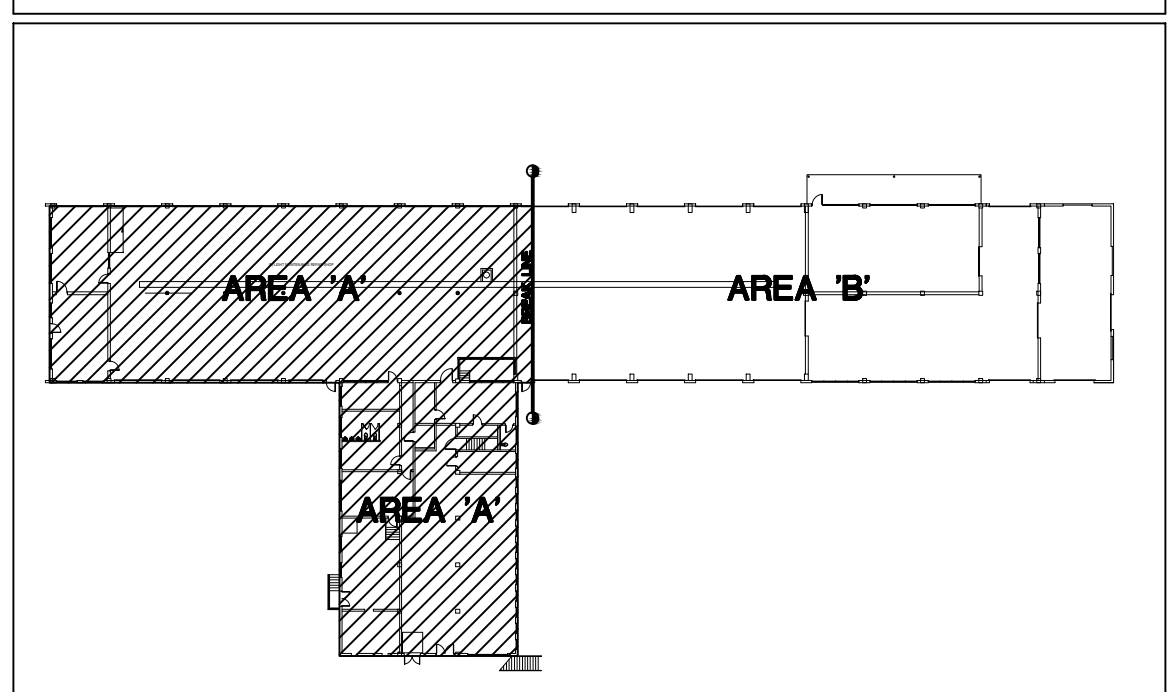
GENERAL NOTES:

- A. ALL ELECTRICAL WORK SHALL BE CLOSELY COORDINATED WITH THE CONTRACTOR'S PHASING OF THE PROJECT. COORDINATE ALL ELECTRICAL WORK WITH ALL OTHER TRADES.
- B. MAKE ALL CONNECTIONS TO EQUIPMENT PER MANUFACTURER'S REQUIREMENTS.
- C. ROUTE ALL CONDUIT HOME RUNS TO PANELS OVERHEAD AND ABOVE ACCESSIBLE CEILINGS WHERE AVAILABLE.
- D. ALL LIGHT FIXTURES SHALL BE 120 VOLT, UNLESS OTHERWISE NOTED.
- E. SHADED FIXTURE SHALL BE ON EMERGENCY/NIGHTLIGHT CIRCUIT AND SHALL NOT HAVE EMERGENCY BALLAST INSTALLED UNLESS OTHERWISE NOTED.
- F. ALL EXIT SIGNS AND NIGHT LIGHTS SHALL BE WIRED FOR CONTINUOUS OPERATION.
- G. FURNISH AND INSTALL 1000W RATED DIMMER SWITCH FOR CONTROL OF LIGHT FIXTURES AS INDICATED. DERATING IS REQUIRED IF MULTI-GANGED AND CONTROL FINS/SIDE SECTIONS ARE REMOVED. COORDINATE WITH DIMMER SWITCH MANUFACTURER'S INSTALLATION REQUIREMENTS.
- H. COORDINATE ALL UNDER CABINET LIGHTING WITH MILLWORK BEING INSTALLED AND ARCHITECTURAL ELEVATIONS. CONTRACTOR SHALL CONCEAL ALL CONDUIT.
- I. ALL FINAL LOCATIONS AND ARRANGEMENTS OF CEILING LIGHTING FIXTURES SHALL BE COORDINATED WITH ALL OTHER TRADES.
- J. EACH SWITCH BOX SHALL HAVE A GROUND AND ASSOCIATED LIGHTING CIRCUIT NEUTRAL CONDUCTOR.
- K. THE CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT PANEL DIRECTORIES FOR ALL PANELS THAT CONTAIN CIRCUITS IMPACTED BY THIS PROJECT.

ⓧ SHEET NOTES:

- 1. BATTERY BACKED EMERGENCY EGRESS FIXTURE. MOUNT AT 8'-5" A.F.F. INTERCEPT CLOSEST EXISTING LIGHTING CIRCUIT AND CONNECT TO UNSWITCHED LEG. FIXTURE TO OPERATE IN THE EVENT OF POWER FAILURE.
- 2. NEW EXIT SIGN. FIELD COORDINATE MOUNTING CONDITIONS AND INSTALL PER MANUFACTURER'S REQUIREMENTS. INTERCEPT NEAREST 120 VOLT, UNSWITCHED BRANCH CIRCUIT AND EXTEND TO EXIT SIGN.
- 3. EXISTING LIGHT FIXTURES AND CONTROLS TO REMAIN.

BUILDING KEY PLAN



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**FOR CONSTRUCTION
6/25/18**

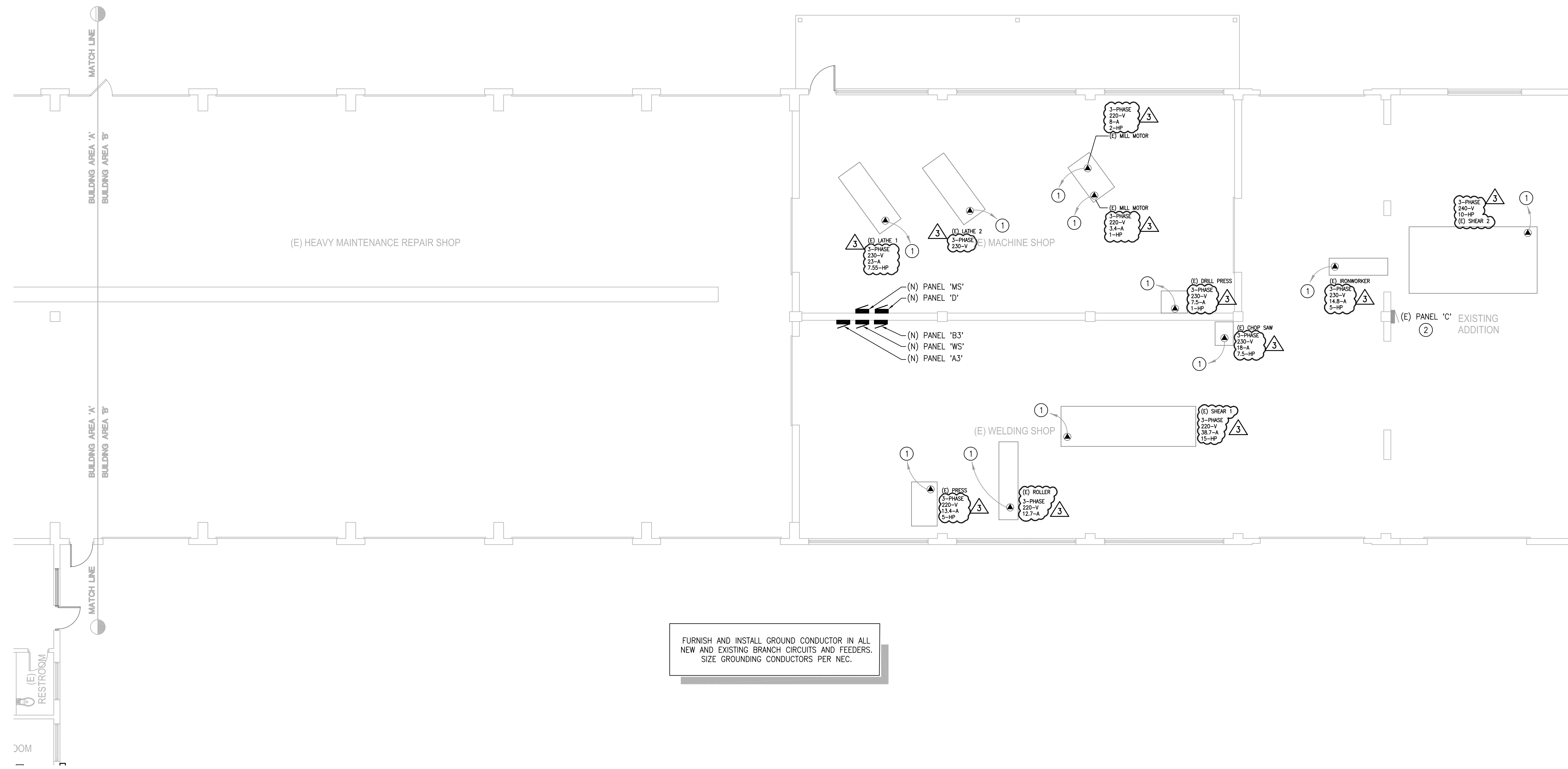
PROJECT	18059.00	DATE	5-2-18
DRAWN	RJL	CHECKED	JLB

REVISED

SHEET TITLE
**LIGHTING PLAN
SECOND FLOOR**

SHEET
E12

ORIGINAL SHEET SIZE
30" x 42"



FURNISH AND INSTALL GROUND CONDUCTOR IN ALL NEW AND EXISTING BRANCH CIRCUITS AND FEEDERS. SIZE GROUNDING CONDUCTORS PER NEC.

1 POWER PLAN GROUND FLOOR - AREA 'B'
SCALE 1/8" = 1'-0"

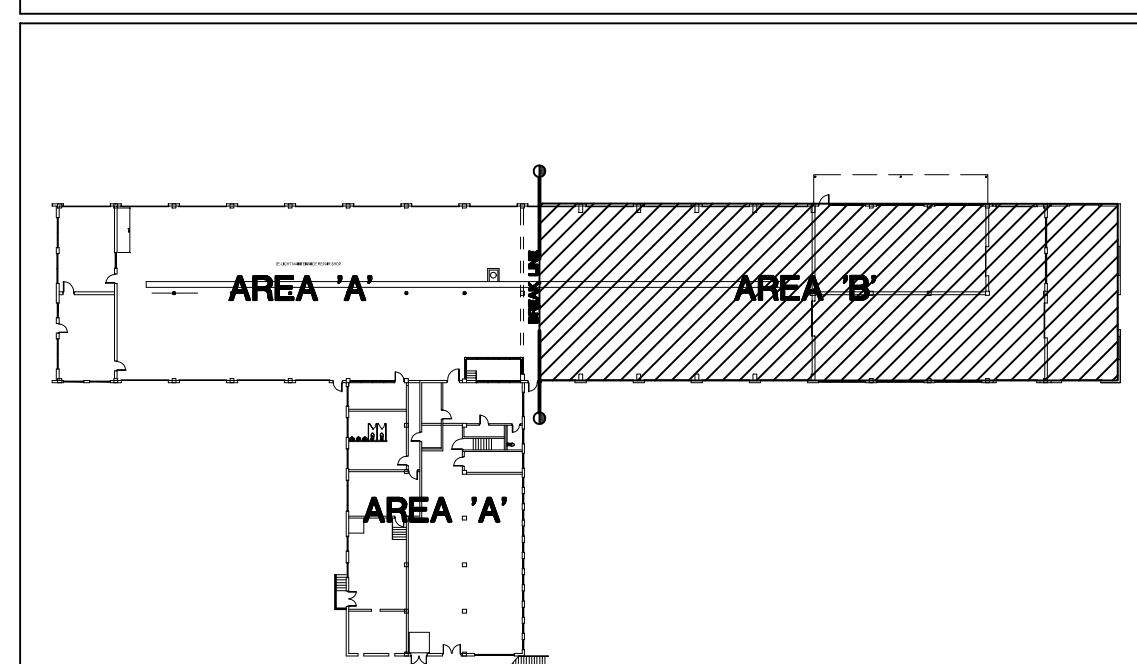
GENERAL NOTES:

- A. UNLESS SPECIFICALLY NOTED TO THE CONTRARY, ALL MATERIALS AND EQUIPMENT SHALL BE OF STANDARD CATALOG AND PRODUCTION AS REQUIRED TO PRODUCE COMPLETE OPERATING SYSTEMS.
- B. ALL EQUIPMENT MUST BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- C. PROVIDE LABEL ON COVER PLATE FOR ALL RECEPTACLES, J-BOXES, AND DEVICES INDICATING PANEL NAME AND CIRCUIT NUMBER.

2 SHEET NOTES:

- 1. INTERCEPT EXISTING ELECTRICAL FEED FOR EQUIPMENT TO NEW PANELS. PROVIDE ADDITIONAL CONDUIT AND CONDUCTORS AS REQUIRED.
- 2. EXISTING PANELBOARD TO BE RE-FED FROM NEW MAIN SWITCHBOARD. SEE SINGLE-LINE DIAGRAM.

BUILDING KEY PLAN



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**FOR CONSTRUCTION
6/25/18**

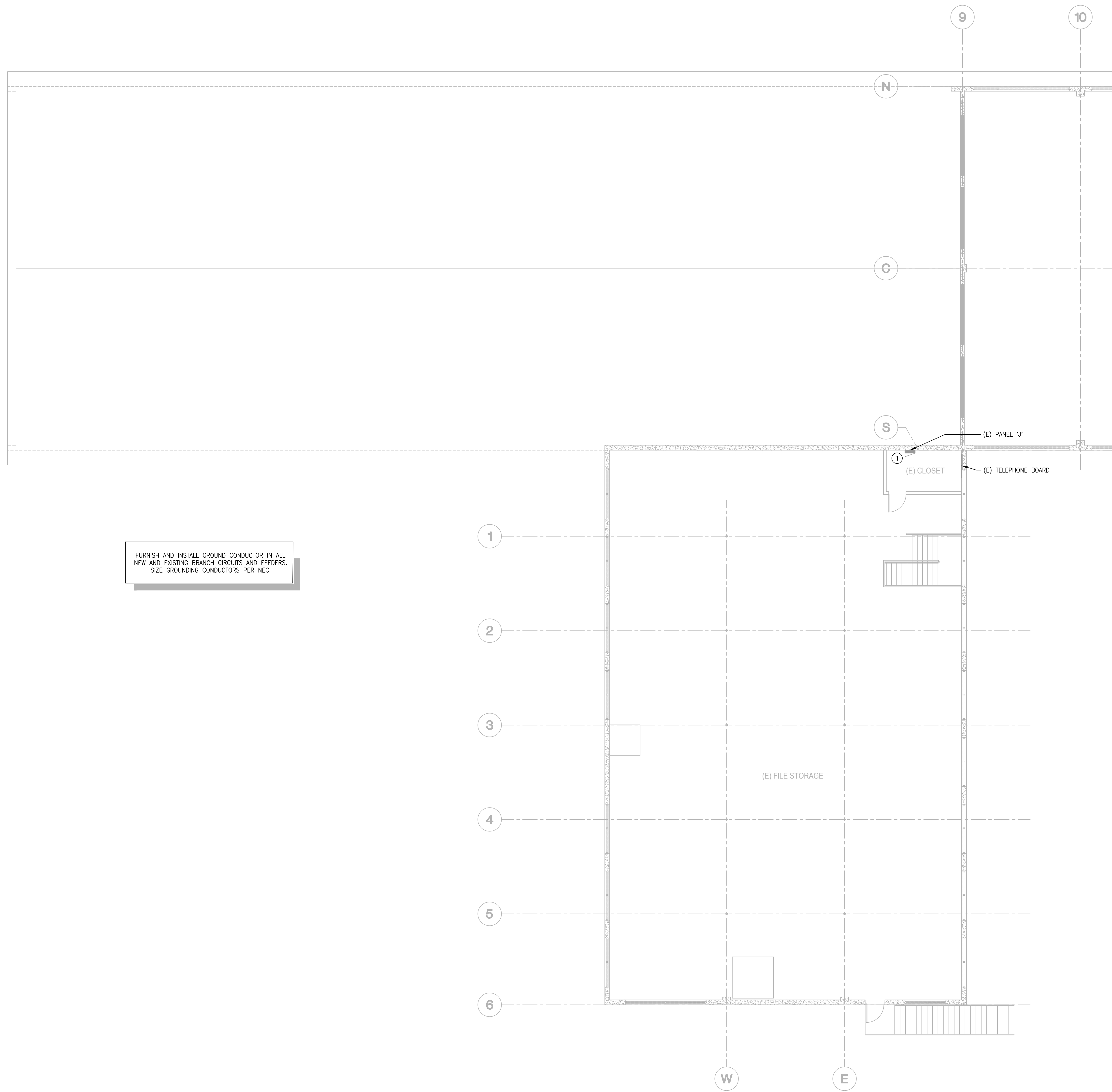
PROJECT: 18059.00 DATE: 5-2-18
DRAWN: BL CHECKED: JLB
REVISED:
ADDENDUM 4: 5-29-18, BL
SHEET NOT ISSUED

**POWER PLAN
GROUND FLOOR**

SHEET: **E21B**

ORIGINAL SHEET SIZE
30" x 42"

CSHOA



FURNISH AND INSTALL GROUND CONDUCTOR IN ALL NEW AND EXISTING BRANCH CIRCUITS AND FEEDERS. SIZE GROUNDING CONDUCTORS PER NEC.

1 POWER PLAN SECOND FLOOR - AREA 'A'
SCALE 1/8" = 1'-0"

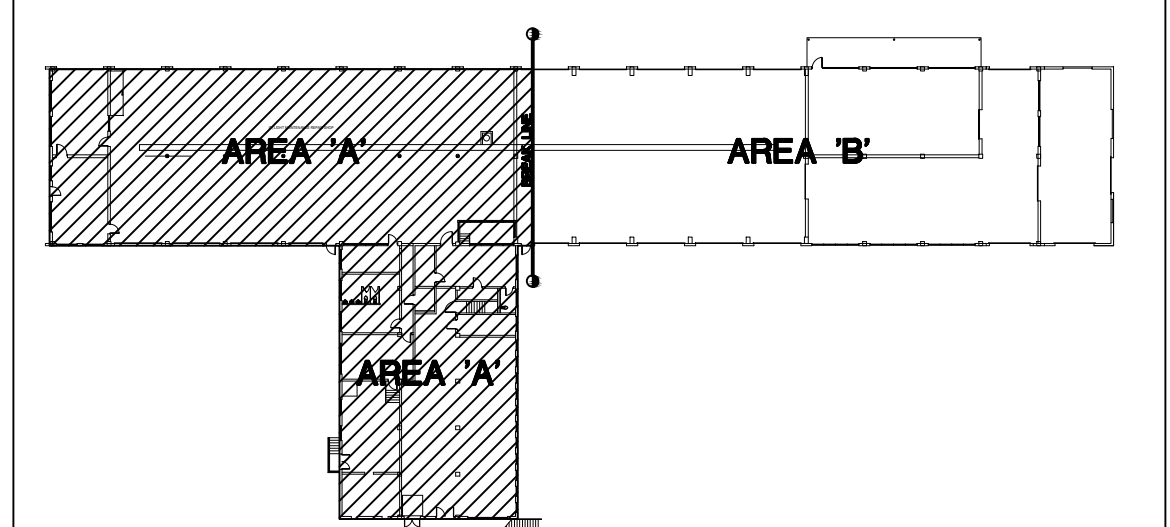
GENERAL NOTES:

- A. UNLESS SPECIFICALLY NOTED TO THE CONTRARY, ALL MATERIALS AND EQUIPMENT SHALL BE OF STANDARD CATALOG AND PRODUCTION AS REQUIRED TO PRODUCE COMPLETE OPERATING SYSTEMS.
- B. ALL EQUIPMENT MUST BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- C. PROVIDE LABEL ON COVER PLATE FOR ALL RECEPTACLES, J-BOXES, AND DEVICES INDICATING PANEL NAME AND CIRCUIT NUMBER.

3 SHEET NOTES:

- 1. REMOVE EXISTING LOAD CENTER FEEDER AND REPLACE WITH NEW. FIELD VERIFY EXISTING PANEL FEEDER. SEE SINGLE-LINE DIAGRAM FOR NEW FEEDER DETAILS. RE: E81.

BUILDING KEY PLAN



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**FOR CONSTRUCTION
6/25/18**

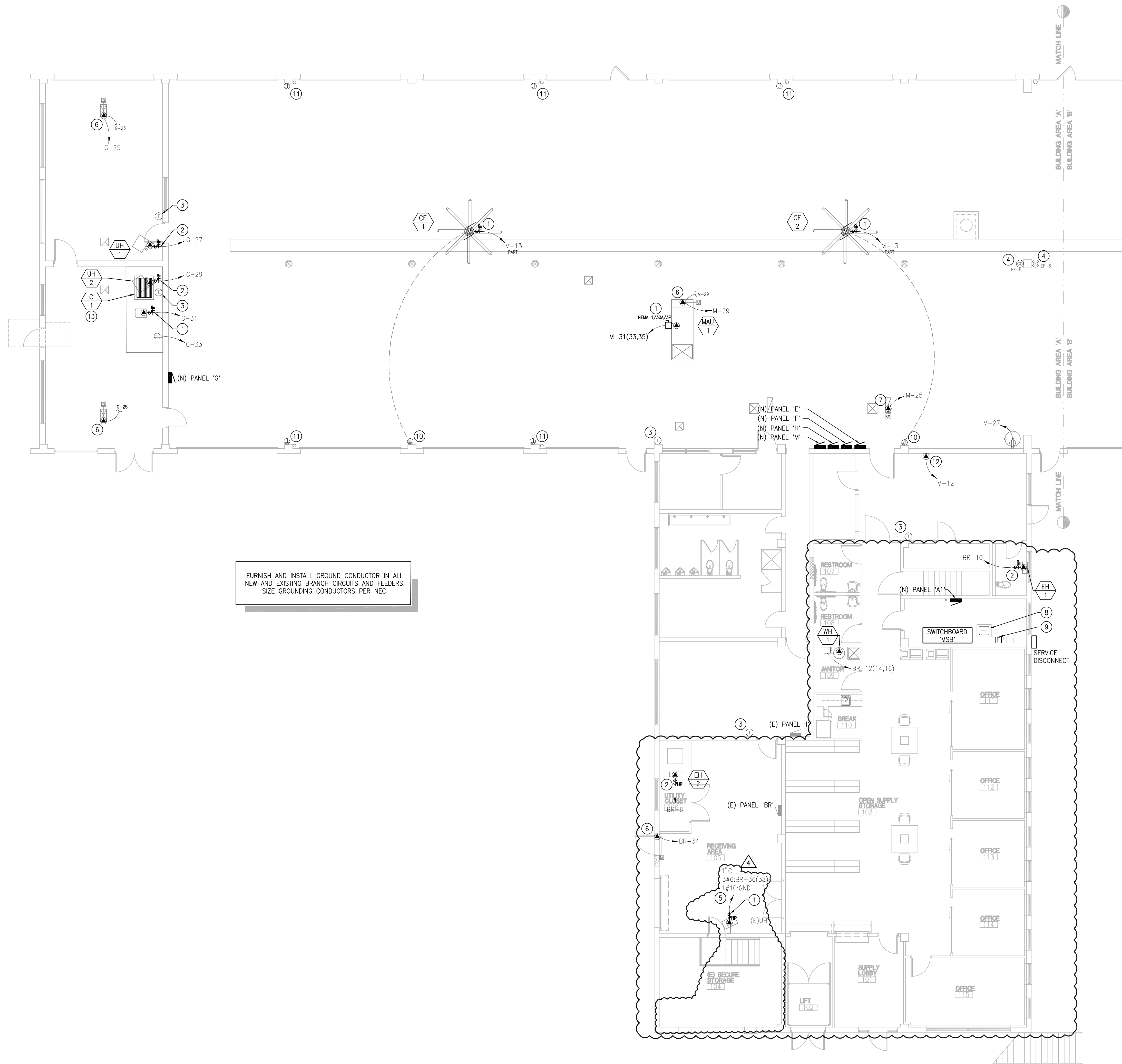
PROJECT 18059.00	DATE 5-2-18
DRAWN BL	CHECKED JLB

REVISED

SHEET TITLE
**POWER PLAN
SECOND FLOOR**

SHEET
E22

ORIGINAL SHEET SIZE
30' x 42'



FURNISH AND INSTALL GROUND CONDUCTOR IN ALL NEW AND EXISTING BRANCH CIRCUITS AND FEEDERS. SIZE GROUNDING CONDUCTORS PER NEC.

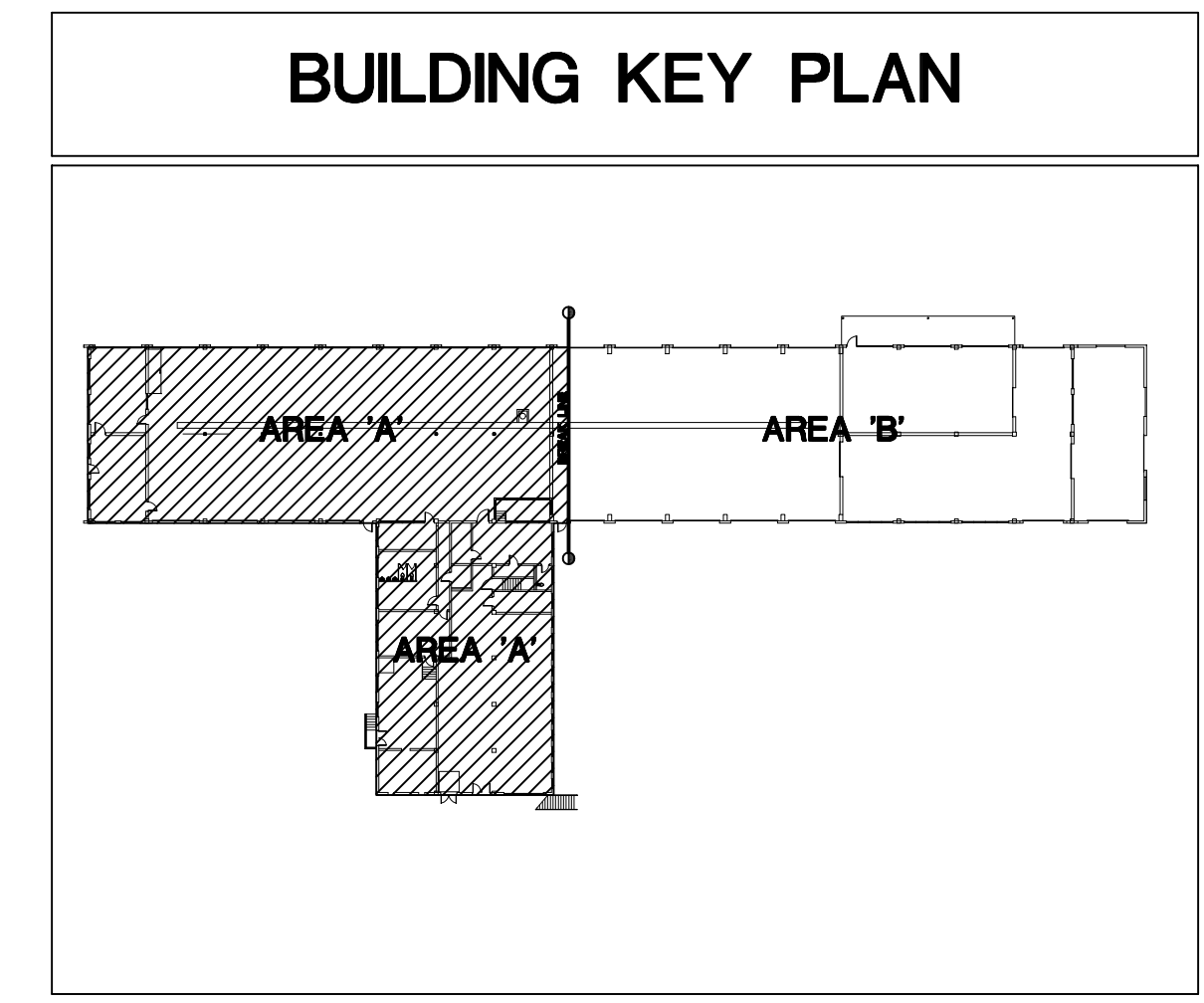
GENERAL NOTES:

- A. UNLESS SPECIFICALLY NOTED TO THE CONTRARY, ALL MATERIALS AND EQUIPMENT SHALL BE OF STANDARD CATALOG AND PRODUCTION AS REQUIRED TO PRODUCE COMPLETE OPERATING SYSTEMS.
- B. ALL EQUIPMENT MUST BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- C. PROVIDE LABEL ON COVER PLATE FOR ALL RECEPTACLES, J-BOXES, AND DEVICES INDICATING PANEL NAME AND CIRCUIT NUMBER.
- D. COORDINATE ALL REQUIREMENTS FOR MECHANICAL EQUIPMENT, DUCT WORK, AND DIFFUSERS WITH MECHANICAL CONTRACTOR. INSTALL ALL CONDUIT RUNS PARALLEL AND PERPENDICULAR WITH OTHER TRADES. FURNISH AND INSTALL STARTERS FOR ALL MOTORS AS REQUIRED.
- E. ALL 120-V POWER TO MECHANICAL CONTROLS SHALL BE BY ELECTRICAL CONTRACTOR. ALL LOW VOLTAGE POWER BY MECHANICAL CONTROLS CONTRACTOR.

SHEET NOTES:

- 1. FURNISH AND INSTALL DISCONNECT. ROUTE POWER TO EQUIPMENT VIA DISCONNECT. COORDINATE WITH MECHANICAL CONTRACTOR.
- 2. ELECTRICAL DISCONNECT PROVIDED BY MECHANICAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR. ROUTE POWER TO EQUIPMENT VIA DISCONNECT. COORDINATE WITH MECHANICAL CONTRACTOR.
- 3. FURNISH AND INSTALL BACK BOX WITH 3/4" CONDUIT TO MECHANICAL UNIT INDICATED FOR HVAC THERMOSTAT. COORDINATE WITH CONTROLS CONTRACTOR FOR EXACT LOCATION.
- 4. FURNISH AND INSTALL 2-GANG JUNCTION BOX AT 54" FOR GAS DETECTOR AND 4-GANG JUNCTION BOX AT 120" FOR STROBE. ROUTE 3/4" CONDUIT BETWEEN THE TWO JUNCTION BOXES FOR CONTROL WIRING. COORDINATE WITH CONTROLS CONTRACTOR.
- 5. EXISTING UNIT HEATER RELOCATED TO INDICATED LOCATION. VERIFY ELECTRICAL REQUIREMENTS AND ROUTE POWER TO NEW PANEL AS INDICATED.
- 6. MOTORIZED DAMPER. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR.
- 7. DUCT-MOUNTED SMOKE DETECTOR FURNISHED BY MECHANICAL CONTRACTOR. INSTALLED BY ELECTRICAL CONTRACTOR. COORDINATE WITH FIRE ALARM CONTRACTOR FOR TIE-IN TO FIRE ALARM SYSTEM.
- 8. AIR COMPRESSOR TRANSFORMER PROVIDED BY EQUIPMENT PROVIDER. SEE SINGLE-LINE DIAGRAM FOR ELECTRICAL CONNECTION. RE: EB1.
- 9. FURNISH AND INSTALL FUSED DISCONNECT FOR AIR COMPRESSOR TRANSFORMER. SEE SINGLE LINE DIAGRAM FOR ELECTRICAL INFORMATION. RE: EB1.
- 10. FURNISH AND INSTALL JUNCTION BOX AT 54" AFF FOR CEILING FAN CONTROLLER. ROUTE 3/4" CONDUIT AND CONTROL WIRING TO CEILING FAN. COORDINATE WITH CONTROLS CONTRACTOR.
- 11. FURNISH AND INSTALL JUNCTION BOX AT 54" AFF FOR VEHICLE EXHAUST FAN CONTROLLER. ROUTE 3/4" CONDUIT AND CONTROL WIRING TO EXHAUST FAN. COORDINATE WITH CONTROLS CONTRACTOR.
- 12. EXHAUST FAN TIMECLOCK. COORDINATE ELECTRICAL REQUIREMENTS AND LOCATION WITH MECHANICAL CONTRACTOR.
- 13. SEE SINGLE-LINE DIAGRAM FOR COMPRESSOR ELECTRICAL CONNECTIONS. RE: EB1.

MECHANICAL PLAN GROUND FLOOR - AREA 'A'
SCALE 1/8" = 1'-0"



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GARDEN CITY, ID
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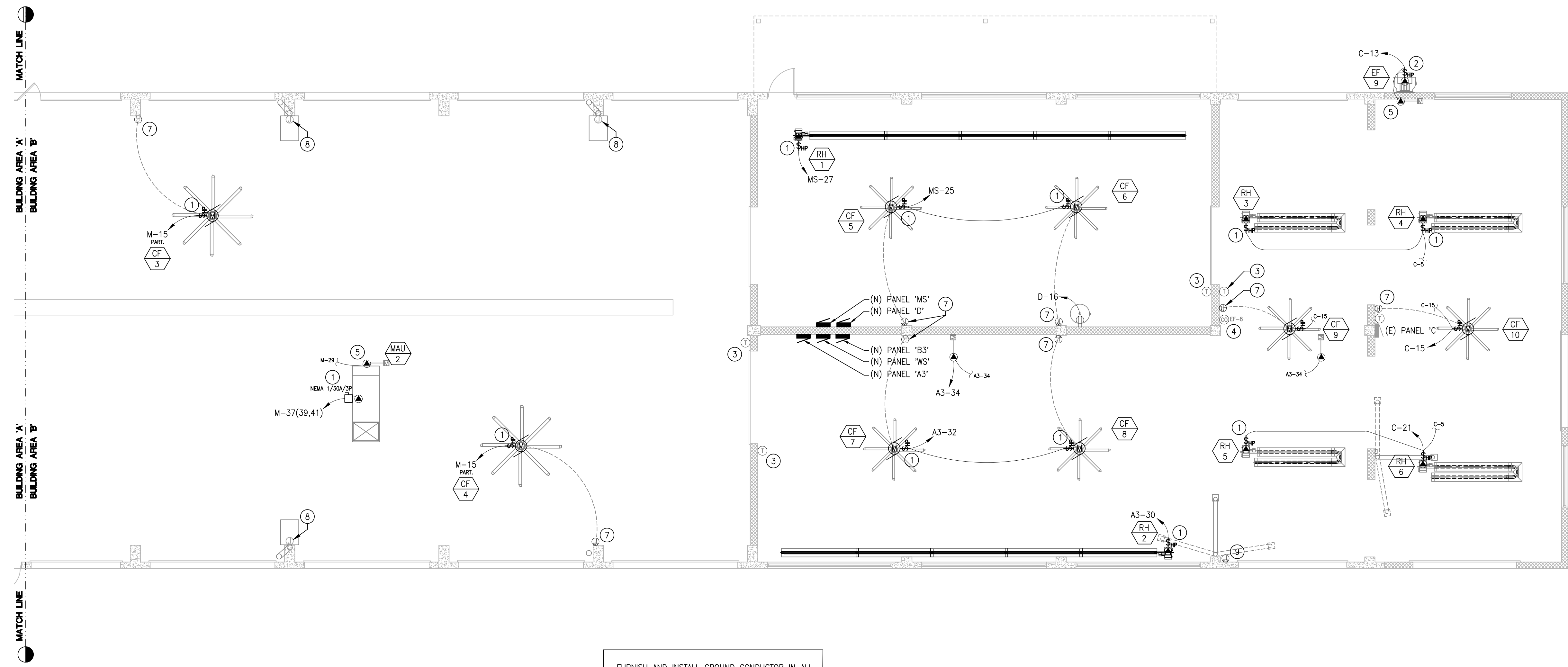
FOR CONSTRUCTION
6/25/18

PROJECT	DATE
18059.00	5-2-18
DRAWN	CHECKED
BL	JLB

REVISED

- ▲ ADDENDUM 1
5-15-18, BL
- ▲ ADDENDUM 5
6-6-18, BL

CSHOA



FURNISH AND INSTALL GROUND CONDUCTOR IN ALL NEW AND EXISTING BRANCH CIRCUITS AND FEEDERS. SIZE GROUNDING CONDUCTORS PER NEC.

MECHANICAL PLAN GROUND FLOOR - AREA 'B'
SCALE 1/8" = 1'-0"

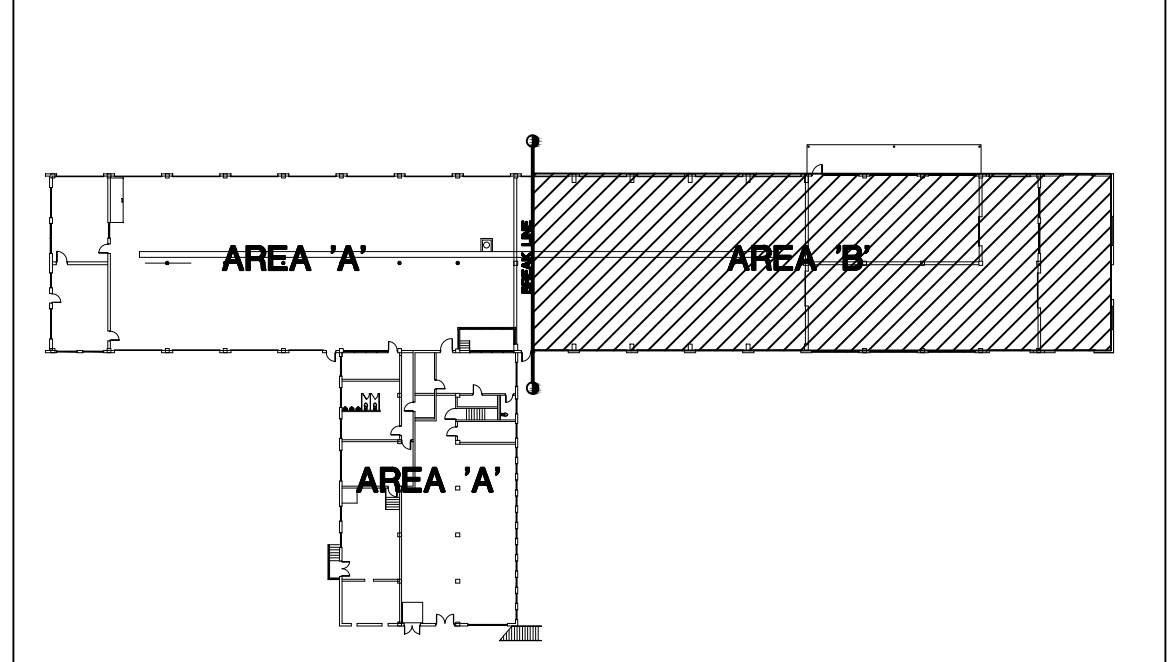
GENERAL NOTES:

- A. UNLESS SPECIFICALLY NOTED TO THE CONTRARY, ALL MATERIALS AND EQUIPMENT SHALL BE OF STANDARD CATALOG AND PRODUCTION AS REQUIRED TO PRODUCE COMPLETE OPERATING SYSTEMS.
- B. ALL EQUIPMENT MUST BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- C. PROVIDE LABEL ON COVER PLATE FOR ALL RECEPTACLES, J-BOXES, AND DEVICES INDICATING PANEL NAME AND CIRCUIT NUMBER.
- D. COORDINATE ALL REQUIREMENTS FOR MECHANICAL EQUIPMENT, DUCT WORK, AND DIFFUSERS WITH MECHANICAL CONTRACTOR. INSTALL ALL CONDUIT RUNS PARALLEL AND PERPENDICULAR WITH OTHER TRADES. FURNISH AND INSTALL STARTERS FOR ALL MOTORS AS REQUIRED.
- E. ALL 120-V POWER TO MECHANICAL CONTROLS SHALL BE BY ELECTRICAL CONTRACTOR. ALL LOW VOLTAGE POWER BY MECHANICAL CONTROLS CONTRACTOR.

SHEET NOTES:

- 1. FURNISH AND INSTALL DISCONNECT. ROUTE POWER TO EQUIPMENT VIA DISCONNECT. COORDINATE WITH MECHANICAL CONTRACTOR.
- 2. ELECTRICAL DISCONNECT PROVIDED BY MECHANICAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR. ROUTE POWER TO EQUIPMENT VIA DISCONNECT. COORDINATE WITH MECHANICAL CONTRACTOR.
- 3. FURNISH AND INSTALL BACK BOX WITH 3/4" CONDUIT TO MECHANICAL UNIT INDICATED FOR HVAC THERMOSTAT. COORDINATE WITH MECHANICAL FOR EXACT LOCATION.
- 4. FURNISH AND INSTALL 2-GANG JUNCTION BOX AT 54" FOR GAS DETECTOR AND 4-GANG JUNCTION BOX AT 120" FOR STROBE. ROUTE 3/4" CONDUIT BETWEEN THE TWO JUNCTION BOXES FOR CONTROL WIRING. COORDINATE WITH CONTROLS CONTRACTOR.
- 5. MOTORIZED DAMPER. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR.
- 6. NOT USED.
- 7. FURNISH AND INSTALL JUNCTION BOX AT 54" AFF FOR CEILING FAN CONTROLLER. ROUTE 3/4" CONDUIT AND CONTROL WIRING TO CEILING FAN. COORDINATE WITH CONTROLS CONTRACTOR.
- 8. EXISTING VEHICLE EXHAUST FAN CONTROLLER. INTERCEPT AND EXTEND EXISTING CONDUIT AND CONTROL WIRING TO NEW VEHICLE EXHAUST FAN. PROVIDE ADDITIONAL CONDUIT AND CONTROL WIRING AS REQUIRED. COORDINATE WITH CONTROLS CONTRACTOR.
- 9. FURNISH AND INSTALL JUNCTION BOX AT 54" AFF FOR WELDING EXHAUST FAN CONTROLLER. ROUTE 3/4" CONDUIT AND CONTROL WIRING TO EXHAUST FAN. COORDINATE WITH CONTROLS CONTRACTOR.

BUILDING KEY PLAN



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5800 COFFEY STREET
GARDEN CITY, ID



FOR CONSTRUCTION
6/25/18

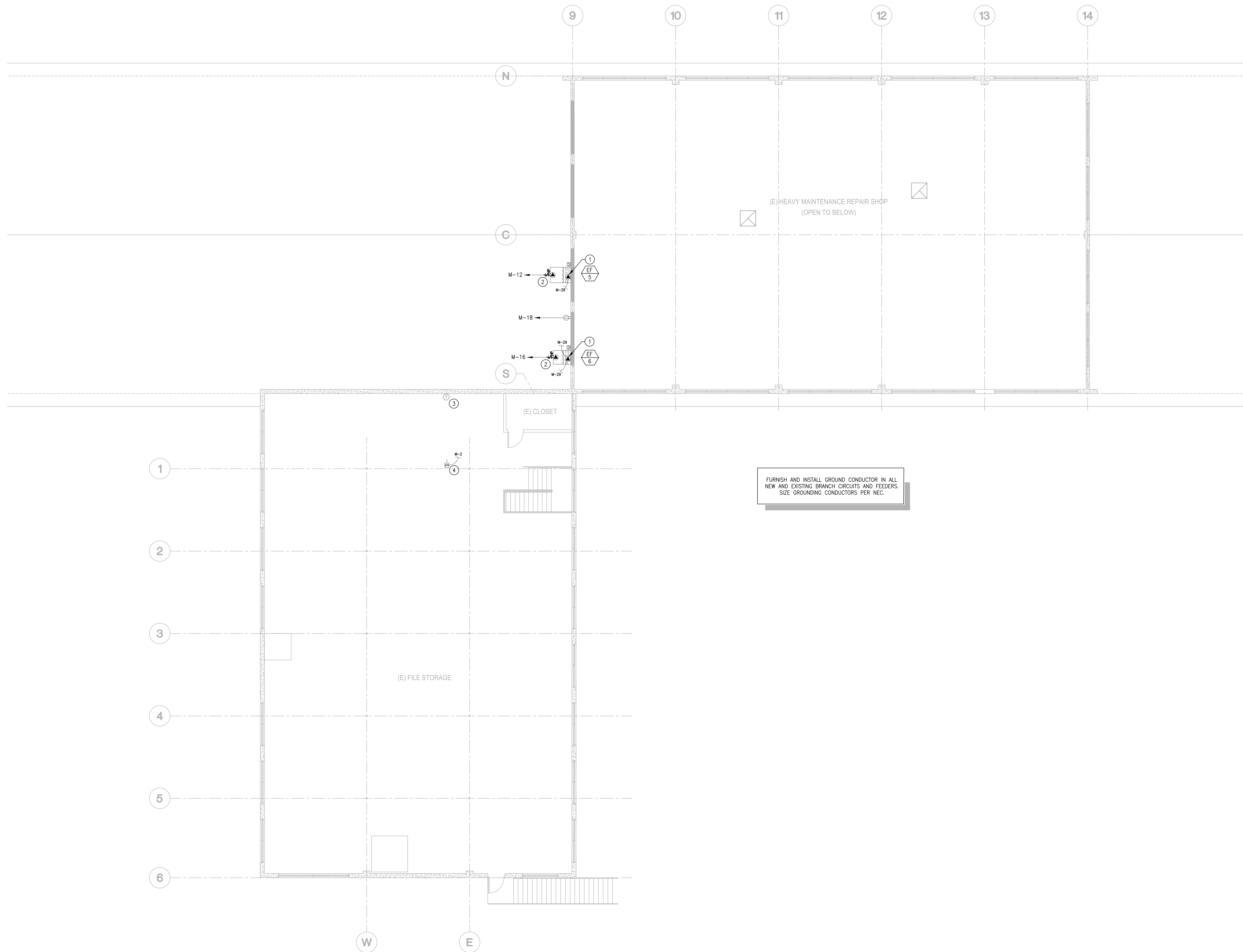
PROJECT	DATE
18059.00	5-2-18
DRAWN	CHECKED
BL	JLB

REVISED

SHEET TITLE
MECHANICAL POWER PLAN GROUND FLOOR

SHEET
E31B

ORIGINAL SHEET SIZE
30" x 42"



FURNISH AND INSTALL GROUND CONDUCTOR IN ALL NEW AND EXISTING BRANCH CIRCUITS AND FEEDERS. SIZE GROUNDING CONDUCTORS PER NEC.

GENERAL NOTES:

- A. UNLESS SPECIFICALLY NOTED TO THE CONTRARY, ALL MATERIALS AND EQUIPMENT SHALL BE OF STANDARD CATALOG AND PRODUCTION AS REQUIRED TO PRODUCE COMPLETE OPERATING SYSTEMS.
- B. ALL EQUIPMENT MUST BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- C. PROVIDE LABEL ON COVER PLATE FOR ALL RECEPTACLES, J-BOXES, AND DEVICES INDICATING PANEL NAME AND CIRCUIT NUMBER.
- D. COORDINATE ALL REQUIREMENTS FOR MECHANICAL EQUIPMENT, DUCT WORK, AND DIFFUSERS WITH MECHANICAL CONTRACTOR. INSTALL ALL CONDUIT RUNS PARALLEL AND PERPENDICULAR WITH OTHER TRADES. FURNISH AND INSTALL STARTERS FOR ALL MOTORS AS REQUIRED.
- E. ALL 120-V POWER TO MECHANICAL CONTROLS SHALL BE BY ELECTRICAL CONTRACTOR. ALL LOW VOLTAGE POWER BY MECHANICAL CONTROLS CONTRACTOR.

3 SHEET NOTES:

1. MOTORIZED DAMPER. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR. SEE SHEET E31A AND E31B FOR CIRCUIT CONTINUATION.
2. ELECTRICAL DISCONNECT PROVIDED BY MECHANICAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR. ROUTE POWER TO EQUIPMENT VIA DISCONNECT. COORDINATE WITH MECHANICAL CONTRACTOR.
3. FURNISH AND INSTALL BACK BOX WITH 3/4" CONDUIT TO MECHANICAL UNIT INDICATED FOR HVAC THERMOSTAT. COORDINATE WITH MECHANICAL FOR EXACT LOCATION.
4. DUCT-MOUNTED SMOKE DETECTOR FURNISHED BY MECHANICAL CONTRACTOR. INSTALLED BY ELECTRICAL CONTRACTOR. COORDINATE WITH FIRE ALARM CONTRACTOR FOR TIE-IN TO FIRE ALARM SYSTEM. SEE ROOF PLAN FOR CIRCUIT CONTINUATION.

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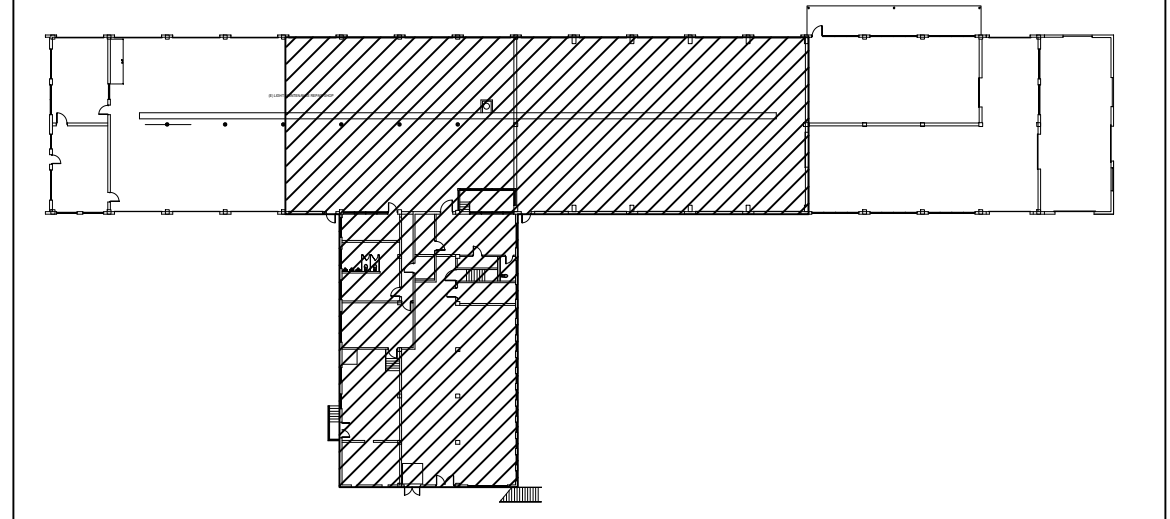


FOR CONSTRUCTION
6/25/18

PROJECT 18059.00	DATE 5-2-18
DRAWN BL	CHECKED JLB

REVISED

BUILDING KEY PLAN

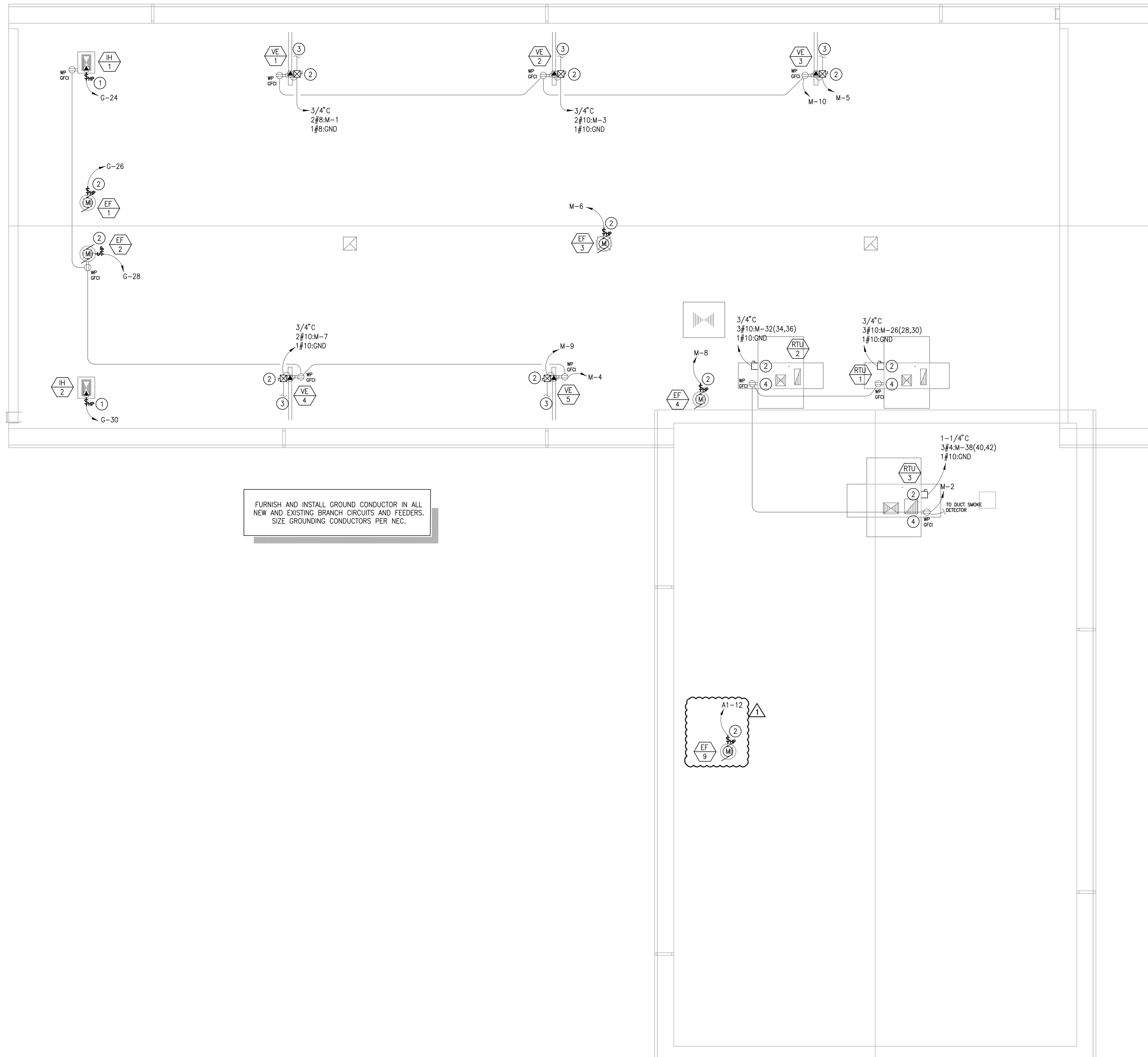


SHEET TITLE
**MECHANICAL
PLAN SECOND
FLOOR**

SHEET
E32

ORIGINAL SHEET SIZE
30" x 42"

MECHANICAL PLAN SECOND FLOOR
SCALE 1/8" = 1'-0"



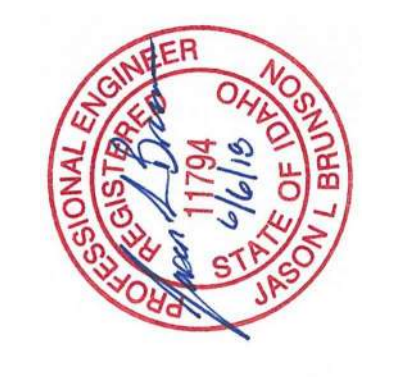
FURNISH AND INSTALL GROUND CONDUCTOR IN ALL NEW AND EXISTING BRANCH CIRCUITS AND FEEDERS. SIZE GROUNDING CONDUCTORS PER NEC.

GENERAL NOTES:

- A. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES.
- B. ROUTE ALL CONDUIT HOME RUNS TO PANELS OVERHEAD AND ABOVE ACCESSIBLE CEILINGS WHERE AVAILABLE.
- C. MAKE ALL CONNECTIONS TO EQUIPMENT.
- D. DO NOT ROUTE CONDUITS ABOVE THE ROOF, EXCEPT IN RUNS THAT ARE SHORTER THAN 10'-0" FEET IN LENGTH.
- E. UNLESS SPECIFICALLY NOTED TO THE CONTRARY, ALL MATERIALS AND EQUIPMENT SHALL BE OF STANDARD CATALOG AND PRODUCTION AS REQUIRED TO PRODUCE COMPLETE OPERATING SYSTEMS.
- F. ALL EQUIPMENT MUST BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- G. PROVIDE LABEL ON COVER PLATE FOR ALL RECEPTACLES, J-BOXES, AND DEVICES INDICATING PANEL NAME AND CIRCUIT NUMBER.
- H. CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR, ELECTRICAL BOXES AND CONDUIT RUN REQUIREMENTS PRIOR TO ROUGH-IN. PROVIDE ALL ELECTRICAL FOR MECHANICAL EQUIPMENT AS DIRECTED BY MECHANICAL CONTRACTOR.
- I. COORDINATE ALL CONTROL WORK WITH THE MECHANICAL CONTRACTOR. SEE THE MECHANICAL CONSTRUCTION DRAWINGS FOR ADDITIONAL WORK REQUIRED BY THE ELECTRICAL CONTRACTOR. PROVIDE ALL ELECTRICAL WORK AS SHOWN ON THE MECHANICAL DRAWINGS AND AS DIRECTED BY THE CONTROL CONTRACTOR.

SHEET NOTES:

- 1. FURNISH AND INSTALL DISCONNECT. ROUTE POWER TO EQUIPMENT VIA DISCONNECT. COORDINATE WITH MECHANICAL CONTRACTOR.
- 2. ELECTRICAL DISCONNECT PROVIDED BY MECHANICAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR. ROUTE POWER TO EQUIPMENT VIA DISCONNECT. COORDINATE WITH MECHANICAL CONTRACTOR.
- 3. FURNISH AND INSTALL 3/4" CONDUIT TO CONTROL SWITCH LOCATED IN MAINTENANCE/REPAIR SHOP BELOW. COORDINATE WITH EQUIPMENT INSTALLER FOR FINAL MOUNTING HEIGHT AND LOCATION AND CONNECTION REQUIREMENTS.
- 4. RECEPTACLE FURNISHED AND INSTALLED BY EQUIPMENT MANUFACTURER. COORDINATE WITH MECHANICAL CONTRACTOR. MAKE FINAL CONNECTIONS.



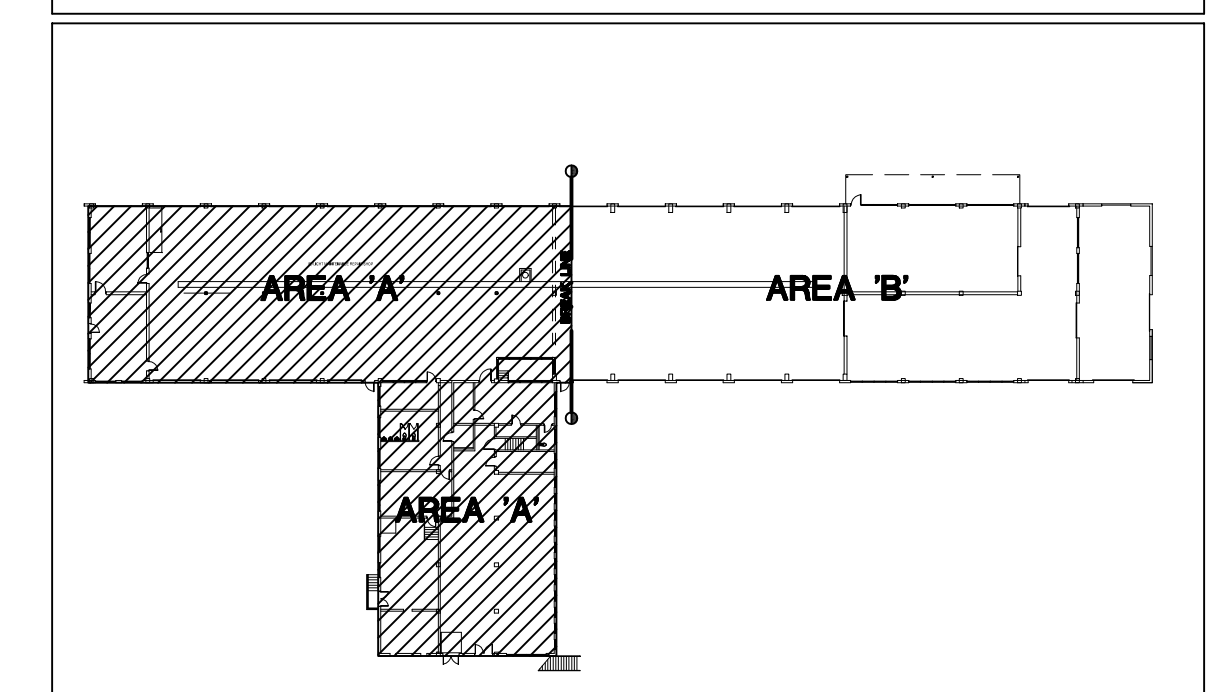
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FOR CONSTRUCTION
6/25/18

PROJECT 18059.00 DATE 5-2-18
DRAWN BL CHECKED JLB
REVISED
ADDENDUM 1 5-15-18, BL

BUILDING KEY PLAN

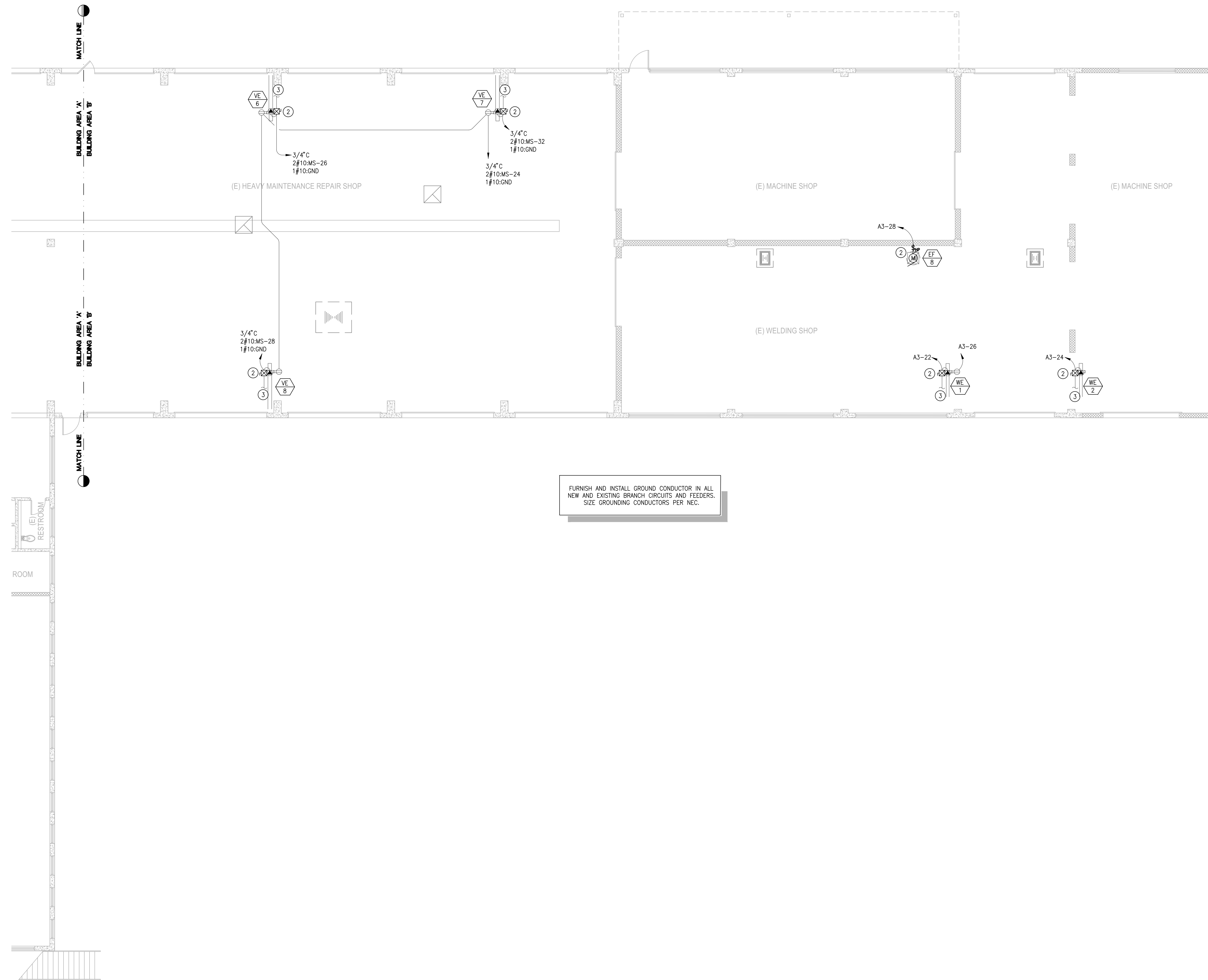


MECHANICAL POWER PLAN ROOF - AREA 'A'
SCALE 1/8" = 1'-0"

SHEET TITLE
MECHANICAL POWER PLAN ROOF

SHEET
E33A

ORIGINAL SHEET SIZE
30" x 42"



FURNISH AND INSTALL GROUND CONDUCTOR IN ALL NEW AND EXISTING BRANCH CIRCUITS AND FEEDERS. SIZE GROUNDING CONDUCTORS PER NEC.

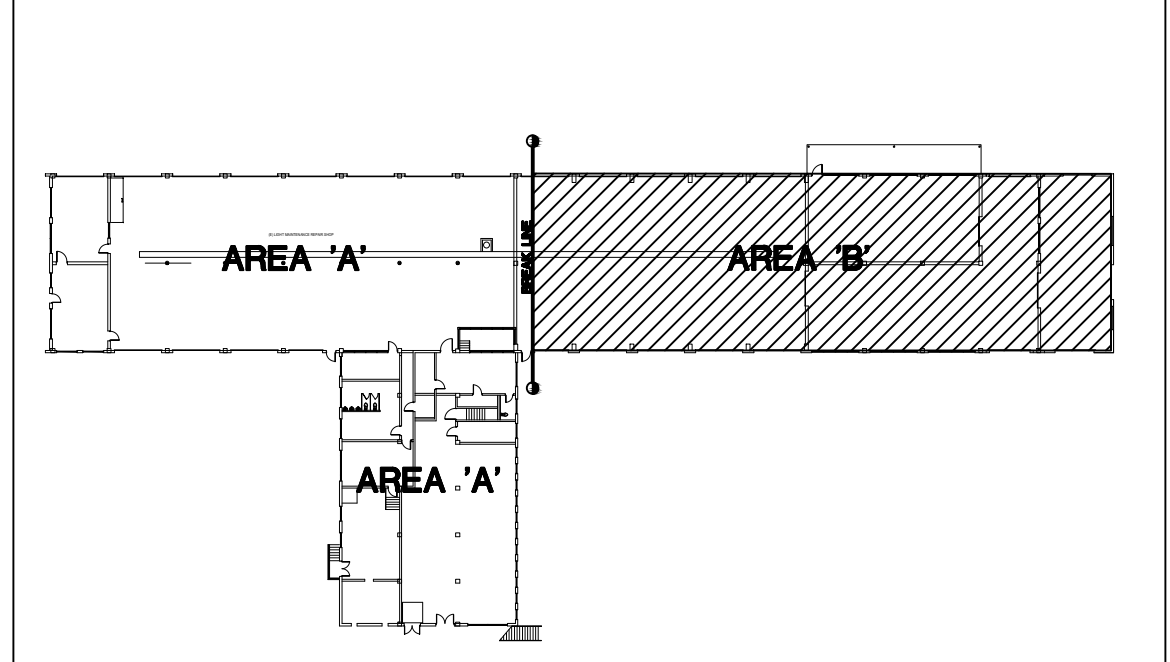
GENERAL NOTES:

- A. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES.
- B. ROUTE ALL CONDUIT HOME RUNS TO PANELS OVERHEAD AND ABOVE ACCESSIBLE CEILINGS WHERE AVAILABLE.
- C. MAKE ALL CONNECTIONS TO EQUIPMENT.
- D. DO NOT ROUTE CONDUITS ABOVE THE ROOF, EXCEPT IN RUNS THAT ARE SHORTER THAN 10'-0" FEET IN LENGTH.
- E. UNLESS SPECIFICALLY NOTED TO THE CONTRARY, ALL MATERIALS AND EQUIPMENT SHALL BE OF STANDARD CATALOG AND PRODUCTION AS REQUIRED TO PRODUCE COMPLETE OPERATING SYSTEMS.
- F. ALL EQUIPMENT MUST BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- G. PROVIDE LABEL ON COVER PLATE FOR ALL RECEPTACLES, J-BOXES, AND DEVICES INDICATING PANEL NAME AND CIRCUIT NUMBER.
- H. CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR, ELECTRICAL BOXES AND CONDUIT RUN REQUIREMENTS PRIOR TO ROUGH-IN. PROVIDE ALL ELECTRICAL FOR MECHANICAL EQUIPMENT AS DIRECTED BY MECHANICAL CONTRACTOR.
- I. COORDINATE ALL CONTROL WORK WITH THE MECHANICAL CONTRACTOR. SEE THE MECHANICAL CONSTRUCTION DRAWINGS FOR ADDITIONAL WORK REQUIRED BY THE ELECTRICAL CONTRACTOR. PROVIDE ALL ELECTRICAL WORK AS SHOWN ON THE MECHANICAL DRAWINGS AND AS DIRECTED BY THE CONTROL CONTRACTOR.

3 SHEET NOTES:

- 1. NOT USED.
- 2. ELECTRICAL DISCONNECT PROVIDED BY MECHANICAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR. ROUTE POWER TO EQUIPMENT VIA DISCONNECT. COORDINATE WITH MECHANICAL CONTRACTOR.
- 3. FURNISH AND INSTALL 3/4" CONDUIT TO CONTROL SWITCH LOCATED IN MAINTENANCE/REPAIR SHOP BELOW. COORDINATE WITH EQUIPMENT INSTALLER FOR FINAL MOUNTING HEIGHT, LOCATION, AND CONNECTION REQUIREMENTS.

BUILDING KEY PLAN



MECHANICAL POWER PLAN ROOF - AREA 'B'
SCALE 1/8" = 1'-0"



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**FOR CONSTRUCTION
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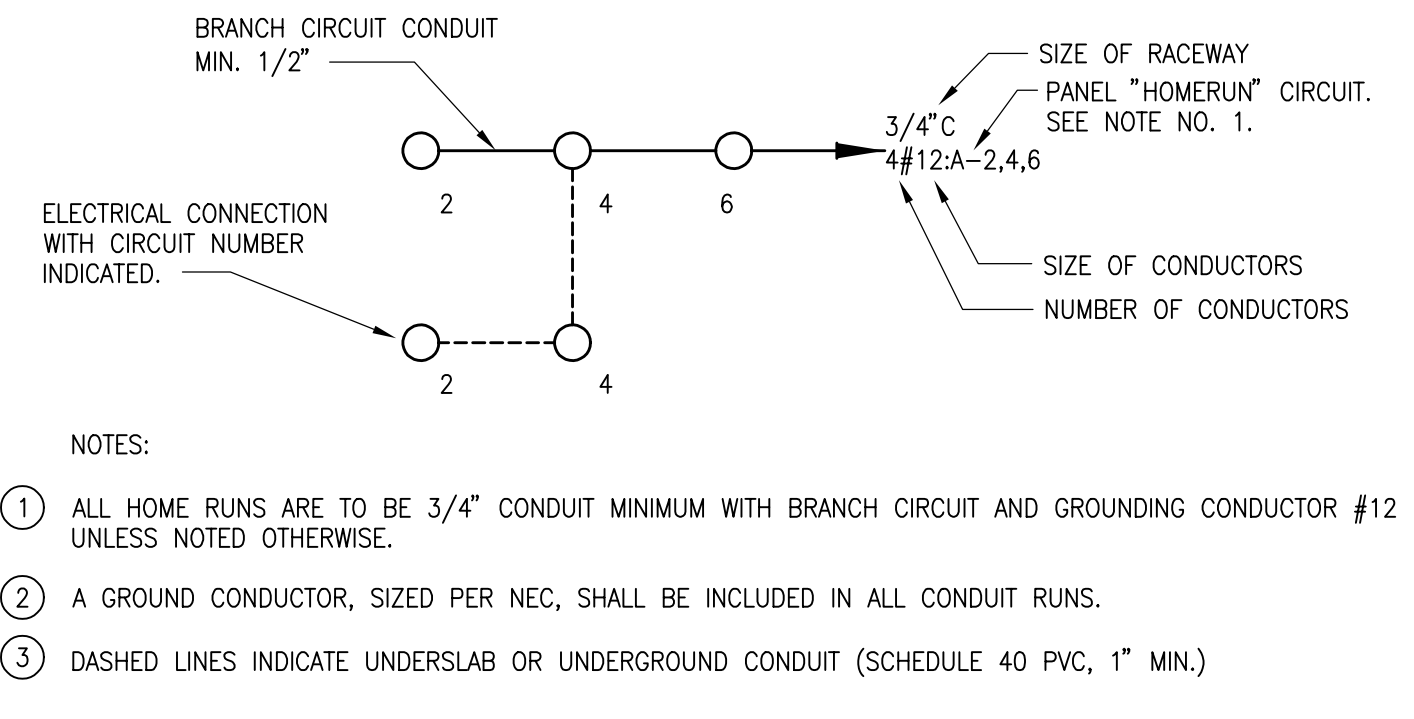
PROJECT	DATE
18059.00	5-2-18
DRAWN	CHECKED
BL	JLB
REVISED	

SHEET TITLE
MECHANICAL POWER PLAN ROOF

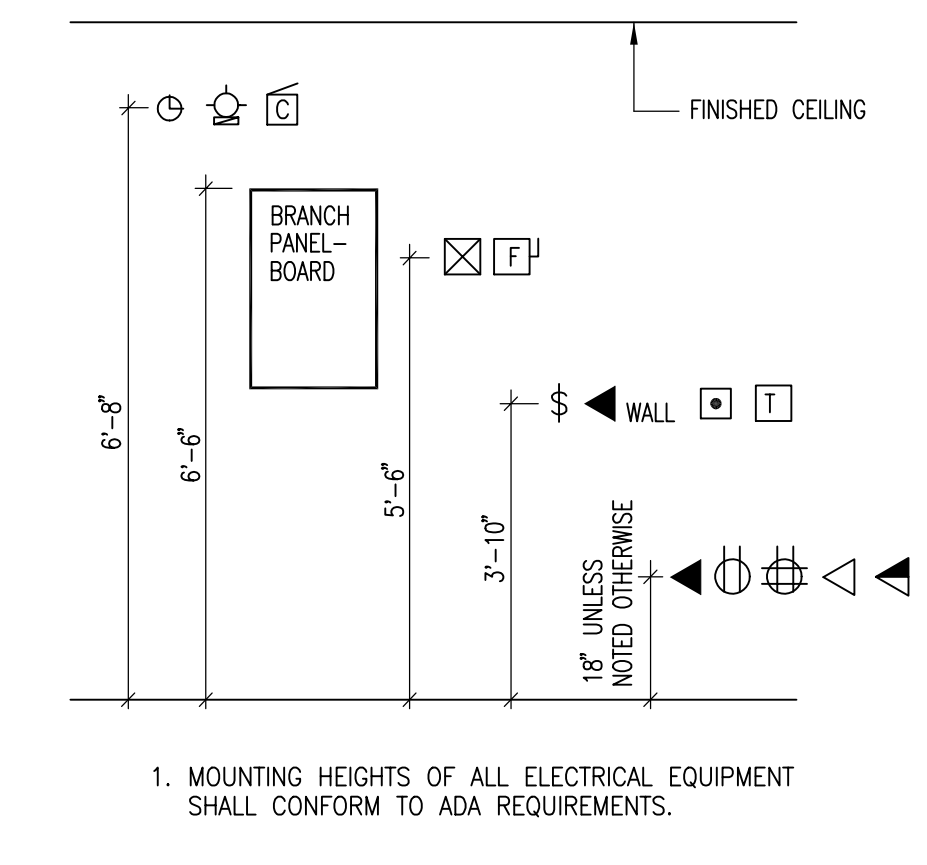
SHEET
E33B

ORIGINAL SHEET SIZE
30" x 42"

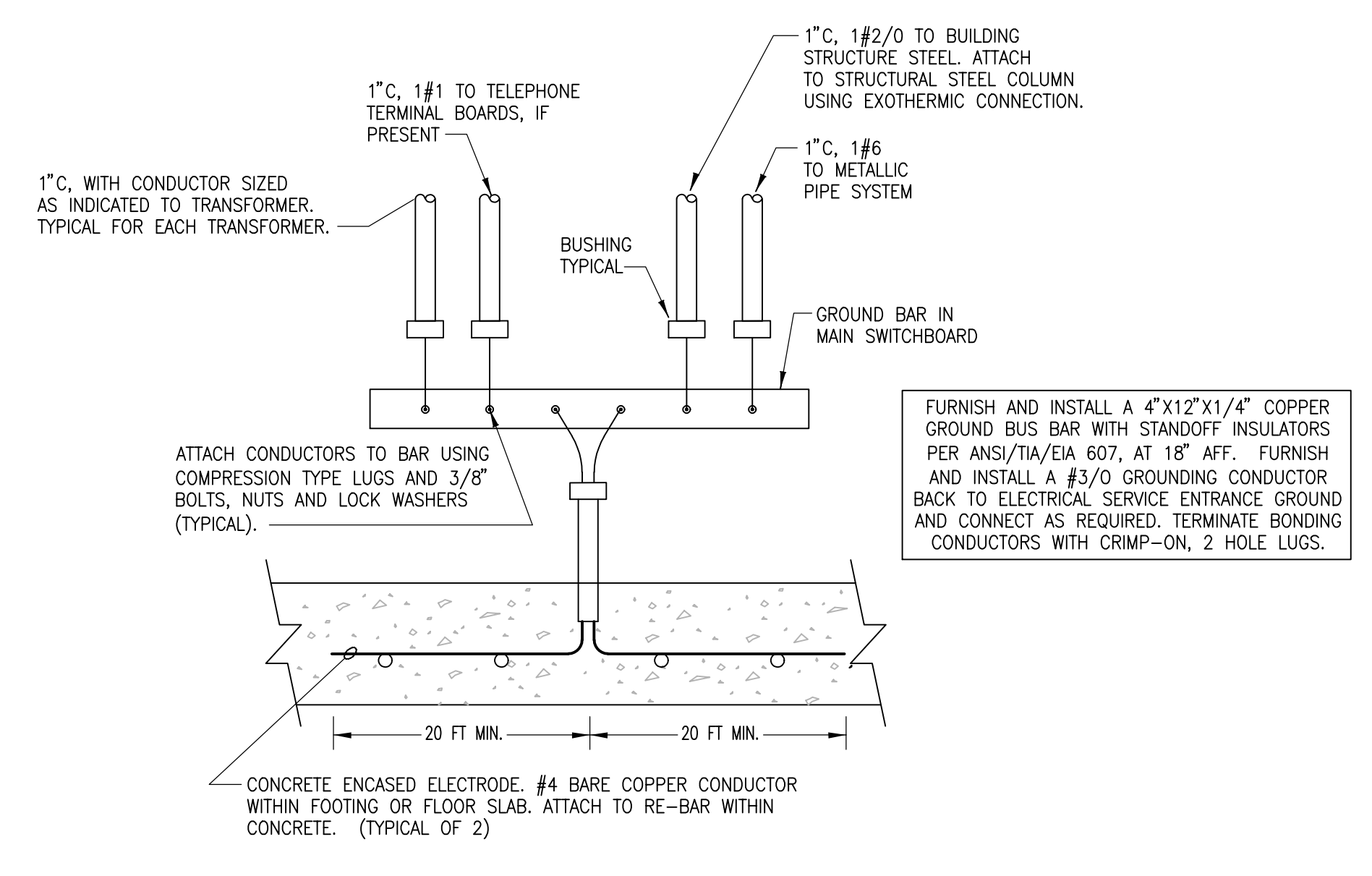
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1 CIRCUITING SYMBOLS
SCALE: NONE



2 STANDARD MOUNTING HEIGHTS
SCALE: NONE



3 GROUNDING DETAIL
SCALE: NONE

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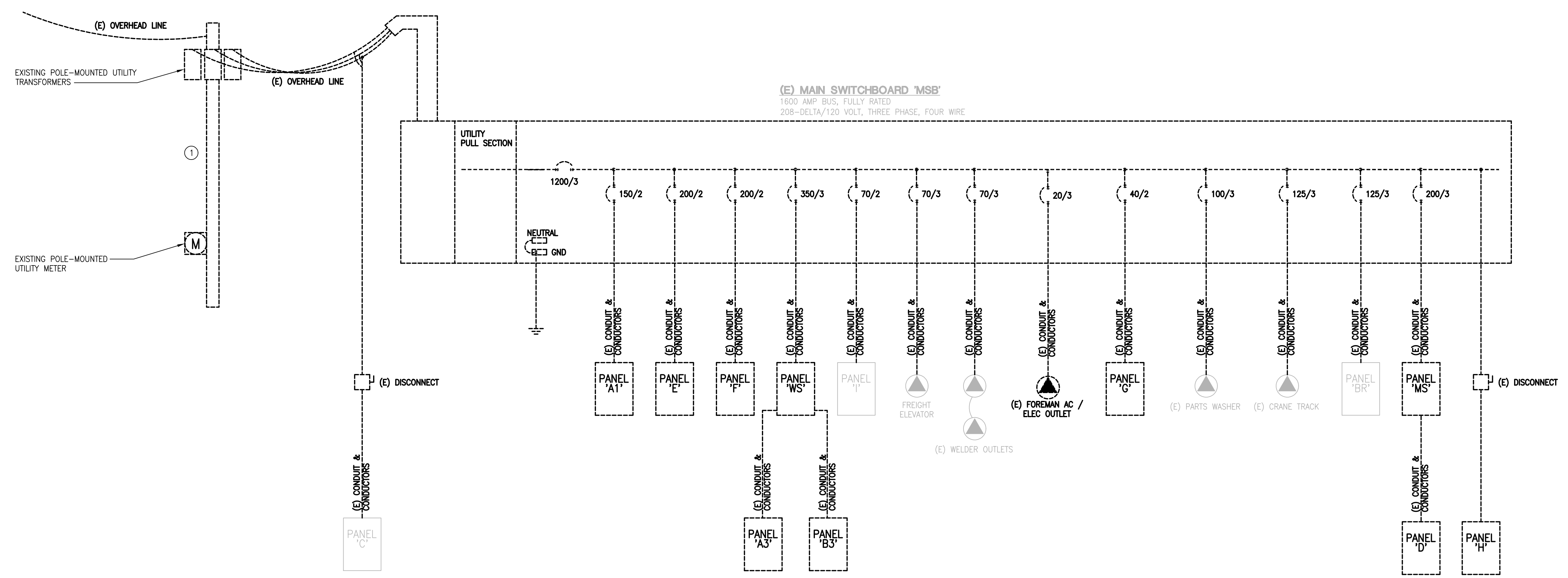
PROJECT 18059.00	DATE 5-2-18
DRAWN BL	CHECKED JLB

REVISED

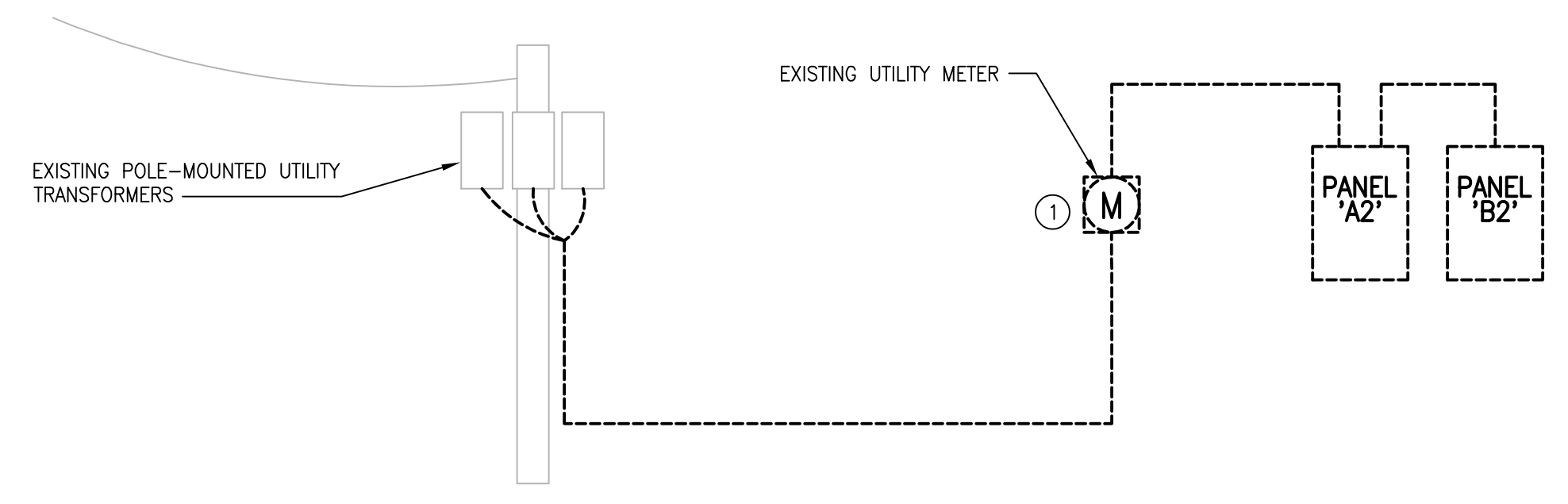
SHEET TITLE
DETAILS

SHEET
E71

ORIGINAL SHEET SIZE
30' x 42'



1 EXISTING SERVICE 1 OF 2 SINGLE-LINE DIAGRAM
SCALE: NONE

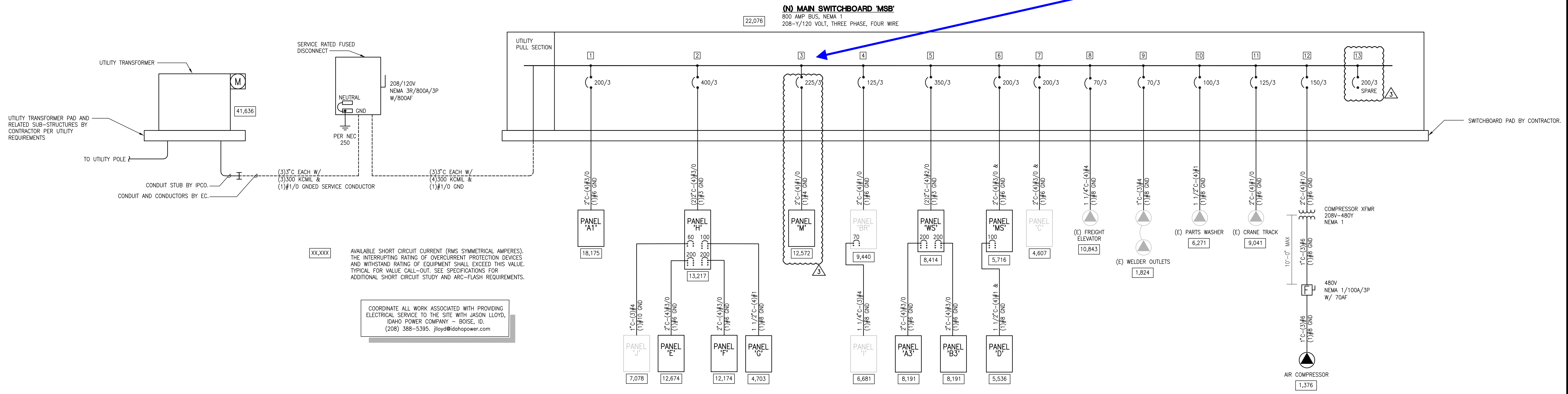


2 EXISTING SERVICE 2 OF 2 SINGLE-LINE DIAGRAM
SCALE: NONE

BUILDING LOAD SUMMARY		
	KW	NOTES
MAXIMUM EXISTING DEMAND LOAD(KW)	91	PER UTILITY 04/2018
PEAK DEMAND (EXISTING DEMAND @125%)	114	
ADDITIONAL LIGHTING @ 125%	2.8	NEW STORAGE HIGH BAY LIGHTS
ADDITIONAL MOTOR LOAD @ 125%+LARGEST + REMAINING	71.5	NEW CEILING FANS, EXHAUST FANS, AND COMPRESSOR
ADDITIONAL HVAC EQUIPMENT LOADS @ 100%	39.3	NEW ROOF TOP AND MAKE-UP AIR UNITS
ADDITIONAL HEATING LOADS @ 100%	20.7	NEW ROOF TOP AND MAKE-UP AIR UNITS
ADDITIONAL MISCELLANEOUS LOADS @ 100%	12.4	NEW RECEPTACLES
TOTAL ADDED REMODEL DEMAND (KVA)	152	
MAXIMUM REMODEL DEMAND (KVA)	266	
MAXIMUM REMODEL DEMAND (AMPS)	739	
MAIN SWITCHBOARD RATING: 800A @ 208V		

NOTE TO AGENCY REVIEWER:
ADDITIONAL REMODEL LOADS HAVE BEEN SHOWN IN ORDER TO SHOW THE EXISTING SERVICE IS SUFFICIENT TO ACCEPT ADDITIONAL LOAD. THE LOADS SHOWN ARE WORST CASE SCENARIO AND DO NOT REFLECT THE REMOVAL OF EXISTING EQUIPMENT, LIGHTING, REFRIGERATION AND MECHANICAL LOADS, WHICH WOULD LOWER THE ACTUAL DEMAND.

ELECTRICAL PLAN REVIEW NOTES:
Panel M - Compliance with NEC 215.2 and 215.3 shall be verified by on-site electrical inspections. It appears the Feeders are undersized and the overcurrent protection device for the Feeders exceeds that allowed.



3 SINGLE-LINE DIAGRAM
SCALE: NONE

GENERAL NOTES:

- A. REFER TO PANEL SCHEDULES ON SHEET E82 FOR LOAD INFORMATION.
- B. COORDINATE ALL UTILITY CONNECTION REQUIREMENTS AND CONNECT.

SHEET NOTES:

- 1. REMOVAL OF ANY EXISTING UTILITY TRANSFORMERS, UTILITY METERS, AND APPLICABLE OVERHEAD LINES IS TO BE COMPLETED BY THE BY UTILITY.



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5800 COFFEY STREET**



**FOR CONSTRUCTION
6/25/18**

PROJECT	DATE
18059.00	5-2-18
DRAWN	CHECKED
BL	JLB

- REVISED
- ▲ ADDENDUM 1 5-15-18, BL
 - ▲ ADDENDUM 4 5-29-18, BL SHEET NOT ISSUED

SHEET TITLE
**SINGLE-LINE
DIAGRAM**

SHEET
E81

ORIGINAL SHEET SIZE
30" x 42"



EXISTING PANEL TO BE REMOVED. SERVICE 2 OF 2

PANEL 'X1' 208Y/120-VOLT, 3-PHASE, 4-WIRE 200-AMP, MAIN LUGS ONLY. NOTES: NEW COMMERCIAL BOLT ON CIRCUIT BREAKER PANELBOARD. Table with columns for CKT NO, LOAD DESCRIPTION, REF NO, BRKR TYPE, LOAD AMPS, BREAKER P, PHASE AMPS (A, B, C), BREAKER P, LOAD AMPS, BRKR TYPE, REF NO, LOAD DESCRIPTION, CKT NO. Total Load: 0 0 6.

PANEL 'X2' 240/120-VOLT, 1-PHASE, 3-WIRE 200-AMP, MAIN CIRCUIT BREAKER. NOTES: TO BE REMOVED. Table with columns for CKT NO, LOAD DESCRIPTION, REF NO, BRKR TYPE, LOAD AMPS, BREAKER P, PHASE AMPS (L1, L2), BREAKER P, LOAD AMPS, BRKR TYPE, REF NO, LOAD DESCRIPTION, CKT NO. Total Load: 0 0.

PANEL 'X3' 208Y/120-VOLT, 3-PHASE, 4-WIRE 200-AMP, MAIN LUGS ONLY. NOTES: NEW COMMERCIAL BOLT ON CIRCUIT BREAKER PANELBOARD. Table with columns for CKT NO, LOAD DESCRIPTION, REF NO, BRKR TYPE, LOAD AMPS, BREAKER P, PHASE AMPS (A, B, C), BREAKER P, LOAD AMPS, BRKR TYPE, REF NO, LOAD DESCRIPTION, CKT NO. Total Load: 9 19 14.

EXISTING PANEL TO BE REMOVED. SERVICE 2 OF 2

PANEL 'B2' 240/120-VOLT, 1-PHASE, 3-WIRE 200-AMP, MAIN CIRCUIT BREAKER. NOTES: TO BE REMOVED. Table with columns for CKT NO, LOAD DESCRIPTION, REF NO, BRKR TYPE, LOAD AMPS, BREAKER P, PHASE AMPS (L1, L2), BREAKER P, LOAD AMPS, BRKR TYPE, REF NO, LOAD DESCRIPTION, CKT NO. Total Load: 0 0.

PANEL 'B3' 208Y/120-VOLT, 3-PHASE, 4-WIRE 200-AMP, MAIN LUGS ONLY. NOTES: NEW COMMERCIAL BOLT ON CIRCUIT BREAKER PANELBOARD. Table with columns for CKT NO, LOAD DESCRIPTION, REF NO, BRKR TYPE, LOAD AMPS, BREAKER P, PHASE AMPS (A, B, C), BREAKER P, LOAD AMPS, BRKR TYPE, REF NO, LOAD DESCRIPTION, CKT NO. Total Load: 0 0 0.

PANEL 'B4' 208Y/120-VOLT, 3-PHASE, 4-WIRE 225-AMP, MAIN LUGS ONLY. NOTES: EXISTING PANELBOARD. Table with columns for CKT NO, LOAD DESCRIPTION, REF NO, BRKR TYPE, LOAD AMPS, BREAKER P, PHASE AMPS (A, B, C), BREAKER P, LOAD AMPS, BRKR TYPE, REF NO, LOAD DESCRIPTION, CKT NO. Total Load: 96 55 78.

PANEL 'C' 208Y/120-VOLT, 3-PHASE, 4-WIRE 150-AMP, MAIN CIRCUIT BREAKER. NOTES: EXISTING PANELBOARD. 1. 2-POLE HANDLE TIE. 2. 3-POLE HANDLE TIE. 3. FIELD VERIFY LOCATION OF EXISTING BRANCH CIRCUIT FOR LOAD. Table with columns for CKT NO, LOAD DESCRIPTION, REF NO, BRKR TYPE, LOAD AMPS, BREAKER P, PHASE AMPS (A, B, C), BREAKER P, LOAD AMPS, BRKR TYPE, REF NO, LOAD DESCRIPTION, CKT NO. Total Load: 14 12 0.

PANEL 'D' 208Y/120-VOLT, 3-PHASE, 4-WIRE 200-AMP, MAIN LUGS ONLY. NOTES: NEW COMMERCIAL BOLT ON CIRCUIT BREAKER PANELBOARD. Table with columns for CKT NO, LOAD DESCRIPTION, REF NO, BRKR TYPE, LOAD AMPS, BREAKER P, PHASE AMPS (A, B, C), BREAKER P, LOAD AMPS, BRKR TYPE, REF NO, LOAD DESCRIPTION, CKT NO. Total Load: 0 2 0.

PANEL 'E' 208Y/120-VOLT, 3-PHASE, 4-WIRE 200-AMP, MAIN LUGS ONLY. NOTES: NEW COMMERCIAL BOLT ON CIRCUIT BREAKER PANELBOARD. Table with columns for CKT NO, LOAD DESCRIPTION, REF NO, BRKR TYPE, LOAD AMPS, BREAKER P, PHASE AMPS (A, B, C), BREAKER P, LOAD AMPS, BRKR TYPE, REF NO, LOAD DESCRIPTION, CKT NO. Total Load: 0 0 0.

JASON L. BRUNSON, P.E. 200 BROAD STREET BOISE, ID 83702 PHONE: 208-343-4635 FAX: 208-343-1858

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CSHOA

FOR CONSTRUCTION 6/25/18

PROJECT 18059.00 DATE 5-2-18 DRAWN JL.B CHECKED JL.B

REVISED ADDENDUM 1 5-15-18, BL ADDENDUM 4 5-29-18, BL SHEET NOT ISSUED ADDENDUM 5 6-6-18, BL

PANEL SCHEDULES

SHEET

E82

ORIGINAL SHEET SIZE 30" x 42"



PANEL 'Y'		NOTES: NEW COMMERCIAL BOLT ON CIRCUIT BREAKER PANELBOARD												
208Y/120-VOLT, 3-PHASE, 4-WIRE		MOUNTING: SURFACE												
100-AMP, MAIN LUGS ONLY		REF NO	BRKR TYPE	LOAD AMPS	BREAKER P AMP	PHASE AMPS			BREAKER P AMP	LOAD AMPS	BRKR TYPE	REF NO	LOAD DESCRIPTION	OXT NO
OXT NO	LOAD DESCRIPTION				A	B	C							
1	(E) FLOOD LIT - NW			1	20			0.0		20	1			SPARE 2
3	**			1	20					20	1			SPARE 4
5	(E) LIT - ANGLE			1	20			0.0	0.0	20	1			SPARE 6
7	**			1	20	0.0				20	1			SPARE 8
9	SPARE			1	20			0.0		20	1			SPARE 10
11	SPARE			1	20			0.0		20	1			SPARE 12
13	(E) LIT			2	20			0.0		20	1			SPARE 14
15	**			**	**			0.0		20	1			SPARE 16
17	(E) LIT			1	20			0.0	0.0	20	1			SPARE 18
19	**			1	20	0.0				20	1			SPARE 20
21	(E) LIT			2	20			0.0		20	1			SPARE 22
23	**			**	**			0.0	0.0	20	1			SPARE 24
25	(E) LIT			1	20	0.0				20	1			SPARE 26
27	**			1	20			0.0		20	1			SPARE 28
29	(E) LIT			2	20			0.0	0.0	20	1			SPARE 30
31	**			**	**			0.0		20	1			SPARE 32
33	(E) LIT			2	20			0.0		20	1			SPARE 34
35	**			**	**			0.0	0.0	20	1			SPARE 36
37	(E) LIT			1	20	0.0				20	1			SPARE 38
39	**			1	20			0.0		20	1			SPARE 40
41	(E) LIT - SHOP NIGHT			2	20			0.0	0.0	20	1			SPARE 42
43	**			**	**			0.0		20	1			SPARE 44
45	SPARE			1	20			0.0		20	1			SPARE 46
47	SPARE			1	20			0.0		20	1			SPARE 48
PROJECT #18059 Panel Schedule		TOTAL LOAD:		0	0	0								06/01/18

PANEL 'Y'		NOTES: COMMERCIAL BOLT-ON CIRCUIT BREAKER PANELBOARD												
208Y/120-VOLT, 3-PHASE, 4-WIRE		MOUNTING: SURFACE												
100-AMP, MAIN LUGS ONLY		REF NO	BRKR TYPE	LOAD AMPS	BREAKER P AMP	PHASE AMPS			BREAKER P AMP	LOAD AMPS	BRKR TYPE	REF NO	LOAD DESCRIPTION	OXT NO
OXT NO	LOAD DESCRIPTION				A	B	C							
1	(E) TRUCK TIRE			1	20			0.0		20	1			(E) FLOOD LIT - NW CORNER 2
3	**			**	**			0.0		20	1			(E) FLOOD LIT - NW CORNER 4
5	(E) REC - LIFT			1	20			9.3	20	1	9.3			LTS - STORAGE HIGH BAYS 6
7	(E) TIRE BALANCER			1	20	0.0				20	1			SPARE 8
9	**			**	**			0.0		20	1			(E) REC - W WALL 10
11	(E) REC - WALL GFCI			1	20			0.0	0.0	20	1			SPARE 12
13	(E) VEHICLE LIFT			1	20			9.0	20	1	9.0			SPARE 14
15	**			**	**			0.0	0.0	20	1			SPARE 16
17	SPARE			1	20			0.0	0.0	20	1			SPARE 18
19	**			**	**			0.0		20	1			SPARE 20
21	SPARE			1	20			0.0	0.0	20	1			SPARE 22
23	SPARE			1	20			1.0	20	1	1.0	IN-1		INTAKE HOOD - STORAGE 24
25	MOTORIZED DAMPERS			0.2	1	20		4.6	20	1	4.4	EF-1		EXHAUST FAN 26
27	UNIT HEATER			UH-1	2.4	1	15		6.8	20	1	4.4	EF-2	EXHAUST FAN 28
29	UNIT HEATER			UH-2	2.4	1	15		3.4	20	1	1.0	IN-2	INTAKE HOOD - STORAGE 30
31	AIR SYSTEM DRYER			8.2	1	20		8.2	20	1				SPARE 32
33	REC - AIR SYSTEM DRAIN			1.5	1	20		1.5	20	1				SPARE 34
35	SPARE			1	20			0.0	0.0	20	1			SPARE 36
37	SPARE			1	20	0.0				20	1			SPARE 38
39	SPARE			1	20			0.0		20	1			SPARE 40
41	SPARE			1	20			0.0	0.0	20	1			SPARE 42
PROJECT #18059 Panel Schedule		TOTAL LOAD:		22	8	14								06/01/18

PANEL 'Y'		NOTES: NEW COMMERCIAL BOLT ON CIRCUIT BREAKER PANELBOARD												
208Y/120-VOLT, 3-PHASE, 4-WIRE		MOUNTING: SURFACE												
100-AMP, MAIN LUGS ONLY		REF NO	BRKR TYPE	LOAD AMPS	BREAKER P AMP	PHASE AMPS			BREAKER P AMP	LOAD AMPS	BRKR TYPE	REF NO	LOAD DESCRIPTION	OXT NO
OXT NO	LOAD DESCRIPTION				A	B	C							
1	(E)			1	20			0.0		20	1			SPARE 2
3	**			**	**			0.0		20	1			SPARE 4
5	**			**	**			0.0	0.0	30	2			SPARE 6
7	(E) DOORS 1,2,3,4 SW			3	15	0.0			**	**	**			SPARE 8
9	**			**	**			0.0		20	1			SPARE 10
11	**			**	**			0.0	0.0	20	1			SPARE 12
13	(E) DOORS 22,23,24,25 NW			3	15	0.0			**	**	**			SPARE 14
15	**			**	**			0.0		20	1			SPARE 16
17	**			**	**			0.0	0.0	20	1			SPARE 18
19	(E) DOORS 18,19,20,21 NE			3	15	0.0			**	**	**			SPARE 20
21	**			**	**			0.0	60	2	0.0			PANEL 'Y' 22
23	**			**	**			0.0	**	**	**			SPARE 24
25	(E)			1	20	0.0			200	3	0.0			PANEL 'Y' 26
27	SPACE							0.0	**	**	**	0.0		SPARE 28
29	(E)			1	20			0.0	**	**	**	0.0		SPARE 30
31	(E)			1	20	0.0			200	3	0.0			PANEL 'Y' 32
33	SPACE							0.0	**	**	**	0.0		SPARE 34
35	(E)			1	20			0.0	**	**	**	0.0		SPARE 36
37	(E)			1	20	22.0			100	3	22.0			PANEL 'Y' 38
39	SPACE							8.0	**	**	**	8.0		SPARE 40
41	(E)			1	20			14.0	**	**	**	14.0		SPARE 42
PROJECT #18059 Panel Schedule		TOTAL LOAD:		22	8	14								06/01/18

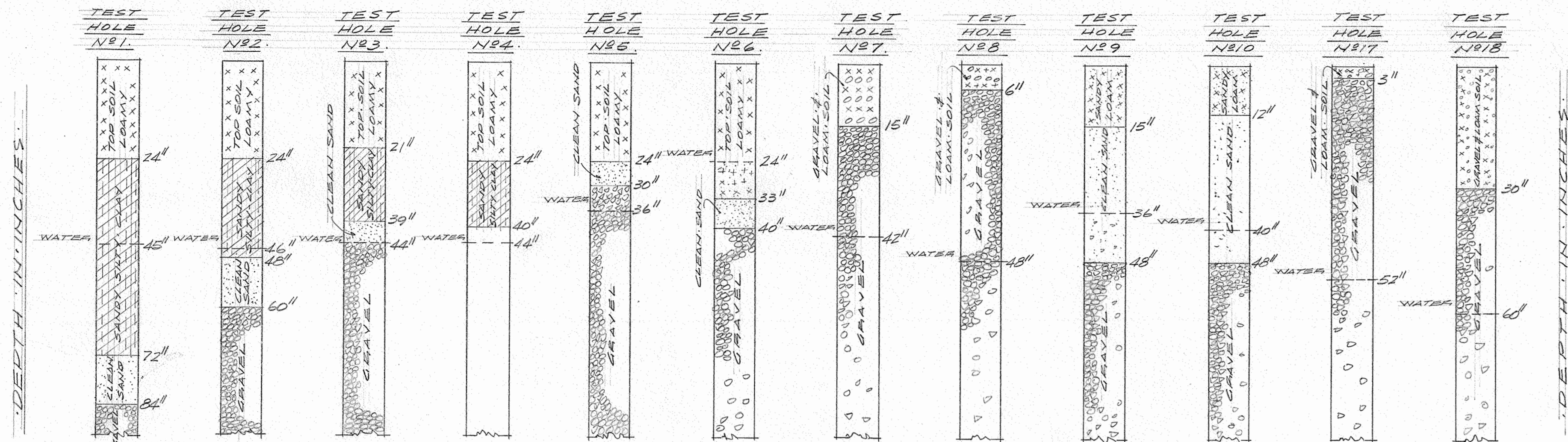
PANEL 'Y'		NOTES: EXISTING LOADCENTER												
240/120-VOLT, 1-PHASE, 3-WIRE		MOUNTING: SURFACE												
125-AMP, MAIN LUGS ONLY		REF NO	BRKR TYPE	LOAD AMPS	BREAKER P AMP	PHASE AMPS			BREAKER P AMP	LOAD AMPS	BRKR TYPE	REF NO	LOAD DESCRIPTION	OXT NO
OXT NO	LOAD DESCRIPTION				L1	L2	L3							
1	(E) REC - E			1	20	0.0			30	2				(E) GATE 2
3	SPARE			2	20			0.0	**	**	**			SPARE 4
5	**			**	**			0.0	**	**	**			(E) REC - PANEL 'Y' 6
7	(E) FAN			1	20	0.0			0.0	20	1	1		(E) REC - OLD COKE BIN 8
PROJECT #18059 Panel Schedule		TOTAL LOAD:		0		0								06/01/18

PANEL 'Y'		NOTES: EXISTING LOADCENTER												
240/120-VOLT, 1-PHASE, 3-WIRE		MOUNTING: SURFACE												
60-AMP, MAIN CIRCUIT BREAKER		REF NO	BRKR TYPE	LOAD AMPS	BREAKER P AMP	PHASE AMPS			BREAKER P AMP	LOAD AMPS	BRKR TYPE	REF NO	LOAD DESCRIPTION	OXT NO
OXT NO	LOAD DESCRIPTION				L1	L2	L3							
1	(E) BATTERY CHARGER			2	20	0.0			20	1				(E) REC 2
3	**			**	**			0.0	20	1				(E) REC 4
5	(E) REC			1	20	0.0			20	1				(E) REC 6
7	(E) REC			1	20	0.0			20	1				(E) REC 8
9	(E) SPACE					0.0								(E) SPACE 10
11	(E) SPACE					0.0			0.0	20	1			(E) SPACE 12
13	(E) SPACE					0.0			60	2				MAN 14
15	(E) SPACE					0.0			0.0	**	**			UNUSABLE SPACE 16
17	UNUSABLE SPACE					0.0			**	**	**			UNUSABLE SPACE 18
PROJECT #18059 Panel Schedule		TOTAL LOAD:		0		0								06/01/18

PANEL 'Y'		NOTES: NEW COMMERCIAL BOLT ON CIRCUIT BREAKER PANELBOARD												
208Y/120-VOLT, 3-PHASE, 4-WIRE		MOUNTING: SURFACE												
225-AMP, MAIN LUGS ONLY		REF NO	BRKR TYPE	LOAD AMPS	BREAKER P AMP	PHASE AMPS			BREAKER P AMP	LOAD AMPS	BRKR TYPE	REF NO	LOAD DESCRIPTION	OXT NO
OXT NO	LOAD DESCRIPTION				A	B	C							
1	VEHICLE EXHAUST FAN - LIGHT MANT			VE-1	12.4	1	20	16.9		20	1	4.5		REC - ROOF TOP / DUCT SMOKE DETECT 2
3	VEHICLE EXHAUST FAN - LIGHT MANT			VE-2	12.4	1	20	18.4		20	1	6.0		REC - ROOF TOP 4
5	VEHICLE EXHAUST FAN - LIGHT MANT			VE-3	12.4	1	20	16.8		20	1	4.4	EF-3	EXHAUST FAN - GARAGE 6
7	VEHICLE EXHAUST FAN - LIGHT MANT			VE-4	12.4	1	20	18.2		20	1	5.8	EF-4	EXHAUST FAN - RESTROOMS 8
9	VEHICLE EXHAUST FAN - LIGHT MANT			VE-5	12.4	1	20	16.9		20	1	4.5		REC - ROOF TOP 10
11	SPACE							0.0	20	1				EXHAUST FAN TIMELOCK 12
13	CEILING FANS - LIGHT MANT			CF-1/2	6.8	1	20	20.6		20	1	13.8	EF-5	EXHAUST FAN - LIGHT MANT 14
15	CEILING FANS - HEAVY MANT			CF-3/4	6.8	1	20	16.6		20	1	9.8	EF-6	EXHAUST FAN - HEAVY MANT 16
17	SPACE				1	20		1.5	20	1	1.5			REC - HEAVY MANT CEILING 18
19	SPACE				1	20		0.0	20	1				SPARE 20
21	SPACE				1	20		0.0	20	1				SPARE 22
23	SPACE				1	20		0.0	20	1				SPARE 24
25	DUCT SMOKE DETECTOR				1.0	1	20	25.0		30	3	24.0	RTU-1	ROOF TOP UNIT - 1ST FLOOR EAST 26
27	REC - AIR SYSTEM DRAIN				1.0	1	20		25.0	**	**	24.0	**	** 28
29	MOTORIZED DAMPERS				0.2	1	20			**	**	24.0	**	** 30
31	MAKE-UP AIR UNIT			MAU-1	12.0	3	20	30.0		25	3	18.0	RTU-2	ROOF TOP UNIT - 1ST FLOOR WEST 32
33	**			**	12.0	**	**	30.0		**	**	18.0	**	** 34
35	**			**	12.0	**	**	30.0		**	**	18.0	**	** 36
37	MAKE-UP AIR UNIT			MAU-2	12.0	3	20	55.0		60	3	43.0	RTU-3	ROOF TOP UNIT - 2ND FLOOR STORAGE 38
39	**			**	12.0	**	**	55.0		**	**	43.0	**	** 40
41	**			**	12.0	**	**	55.0		**	**	43.0	**	** 42

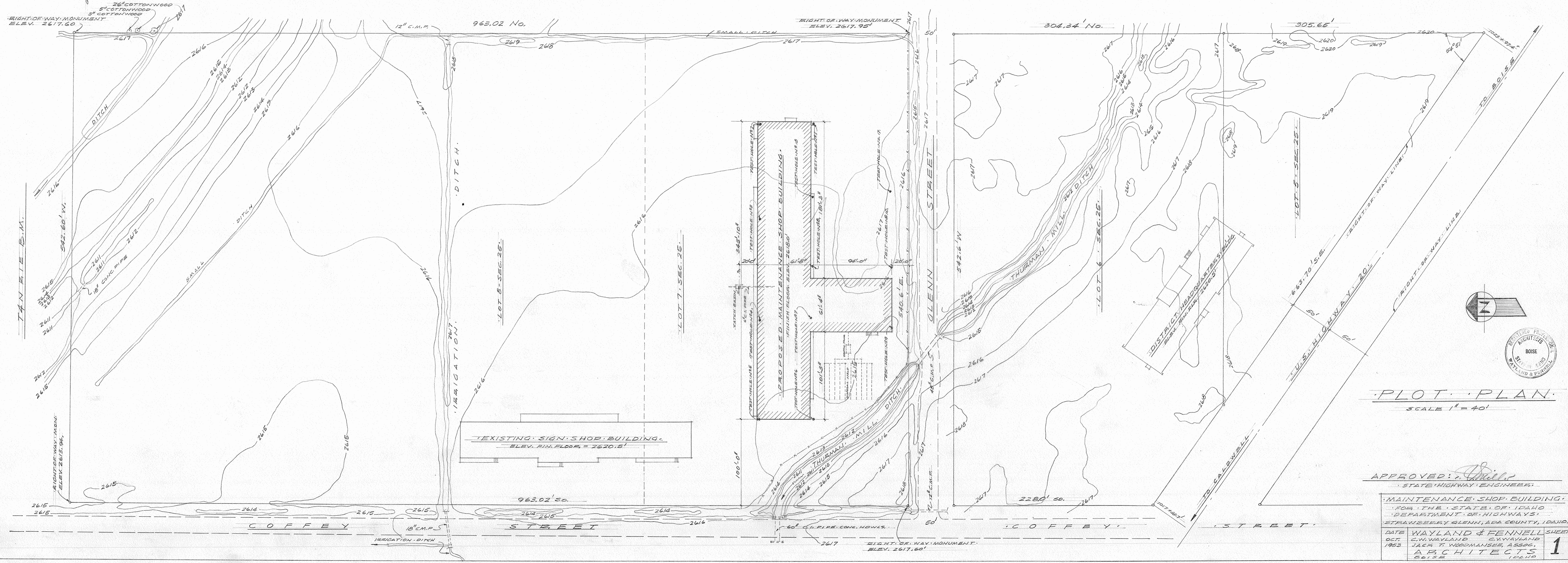
TEST HOLE DATA

NOV. 20, 1952



SCHEDULE OF DRAWINGS

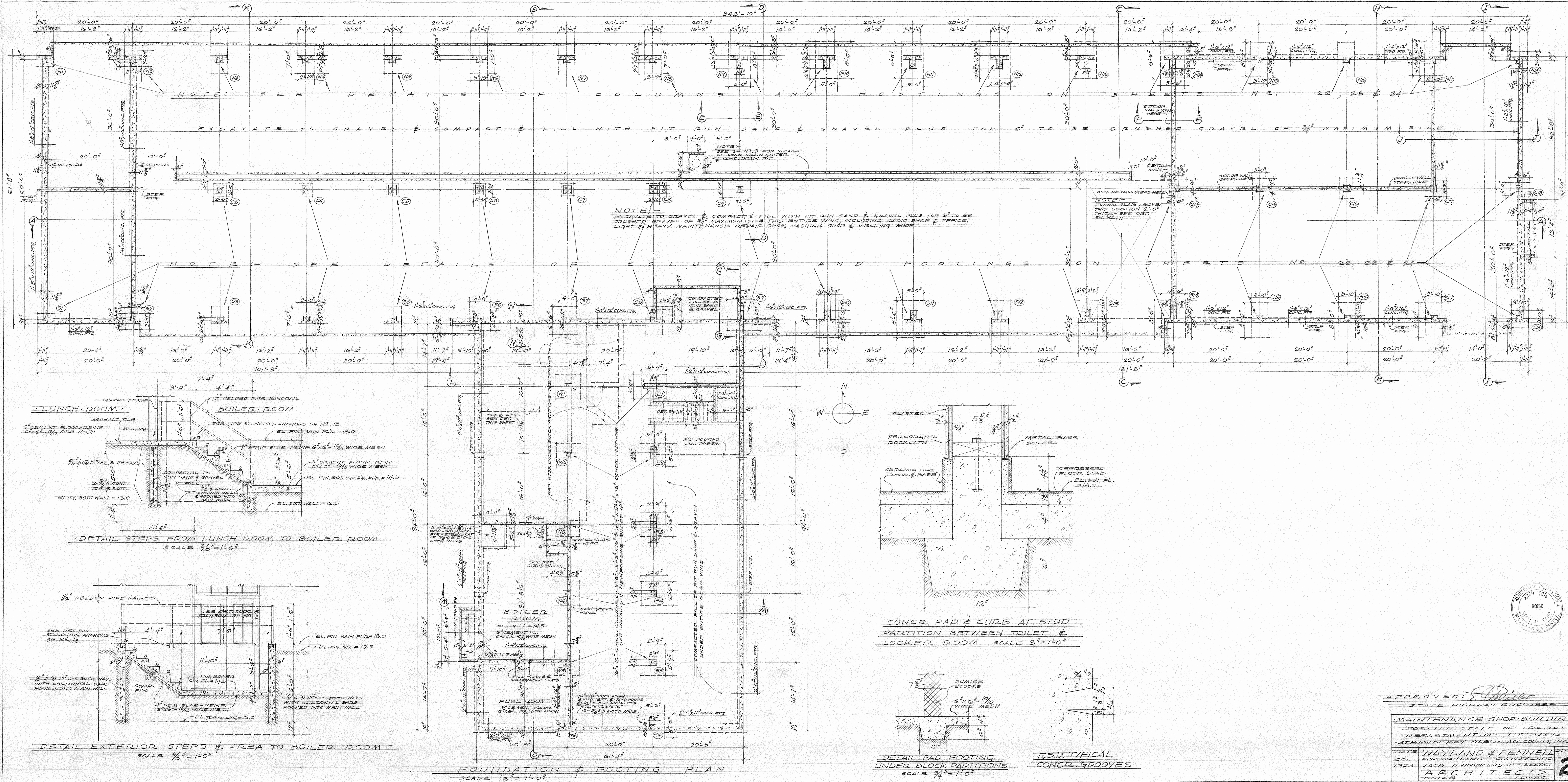
● PLOT PLAN & TEST HOLE DATA	SHEET NO. 1	● SECTION "H-H"	SHEET NO. 13	● MAIN FLOOR HEATING PLAN & SCHEDULE & DETAILS	SHEET H 1
● FOUNDATION & FOOTING PLAN & MISC. DETAILS	SHEET NO. 2	● SECTION "I-I"	SHEET NO. 14	● SECOND FLOOR HEATING PLAN & DETAILS	SHEET H 2
● PART. PLAN SHOWING FLOOR JOINTING & DRAINAGE LINES	SHEET NO. 3	● SECTION "K-K"	SHEET NO. 15	● EXHAUST ASSEMBLY & MISC. HEATING DETAILS	SHEET H 3
● MAIN FLOOR PLAN - WINDOW SCHEDULE & DETAILS	SHEET NO. 4	● SECTION "L-L"	SHEET NO. 16		
● ROOM FINISH SCHEDULE	SHEET NO. 5	● SECTION "M-M"	SHEET NO. 17	● MAIN FLOOR PLUMBING PLAN AND DETAILS	SHEET P 1
● SECOND FLOOR PLAN - PART ROOF PLAN - MISC. DETAILS	SHEET NO. 6	● SECTIONS "G-G", "J-J", "N-N" & MILLWORK DETAILS	SHEET NO. 18	● FOUNDATION PLUMBING PLAN - SEPTIC TANK AND DRAINAGE FIELD	SHEET P 2
● CRANE BEAM PLAN & DETAILS - TRUSS PLAN & DETAILS	SHEET NO. 7	● CONC. STAIR & MISC. STRUCTURAL FRAMING DETAILS	SHEET NO. 19		
● ROOF PLAN - MISC. DOOR & WINDOW FRAME DETAILS	SHEET NO. 8	● SECOND FLOOR STRUCT. FRAMING PLAN & STRUCT. DETAILS	SHEET NO. 20	● MAIN FLOOR ELECTRICAL PLAN AND DETAILS	SHEET E 1
● ELEVATIONS	SHEET NO. 9	● COLUMN & FOOTING SCHEDULES	SHEET NO. 21	● SECOND FLOOR ELECTRICAL PLAN - FIXTURE SCHEDULE ETC.	SHEET E 2
● SECTIONS "A-A" - "B-B" - DOOR SCHEDULE	SHEET NO. 10	● COLUMN & FOOTING DETAILS	SHEET NO. 22	● ELECTRICAL FIXTURE MOUNTING HEIGHTS PANEL SCHEDULES, RISER DIAGRAMS ETC.	SHEET E 3
● SECTION "C-C" & HEAVY SLAB SECTION DETAILS	SHEET NO. 11	● COLUMN & FOOTING DETAILS	SHEET NO. 23		
● SECTION "D-D" - "E-E" - "F-F"	SHEET NO. 12	● COLUMN & FOOTING DETAILS	SHEET NO. 24		



PLOT PLAN
SCALE 1" = 40'

APPROVED: [Signature]
STATE HIGHWAY ENGINEER

● MAINTENANCE SHOP BUILDING ●		
● FOR THE STATE OF IDAHO ●		
● DEPARTMENT OF HIGHWAYS ●		
● STRAWBERRY GLENN, ADA COUNTY, IDAHO ●		
DATE	WAYLAND & FENNELLS	SHEET
OCT. 1953	C.W. WAYLAND & G.W. FENNELLS	1
	JACK T. WOODMANSEE, ASSOC.	
	ARCHITECTS	
	BOISE	
	IDAHO	

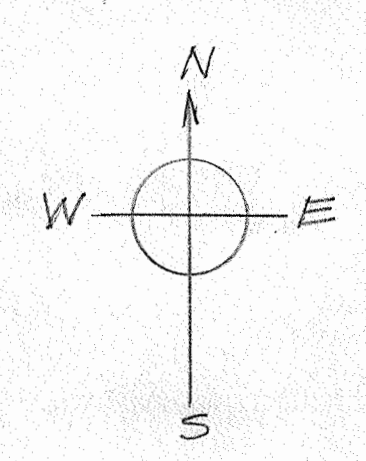


NOTE: SEE DETAILS OF COLUMNS AND FOOTINGS ON SHEETS NO. 22, 23 & 24

EXCAVATE TO GRAVEL & COMPACT & FILL WITH PIT RUN SAND & GRAVEL PLUS TOP 6" TO BE CRUSHED GRAVEL OF 3/4" MAXIMUM SIZE

NOTE: EXCAVATE TO GRAVEL & COMPACT & FILL WITH PIT RUN SAND & GRAVEL PLUS TOP 6" TO BE CRUSHED GRAVEL OF 3/4" MAXIMUM SIZE THIS ENTIRE WING, INCLUDING RADIO SHOP & OFFICE, LIGHT & HEAVY MAINTENANCE REPAIR SHOP, MACHINE SHOP & WELDING SHOP

NOTE: FLOOR SLAB ABOVE THIS SECTION 2' 0" THICK - SEE DET. SH. NO. 11

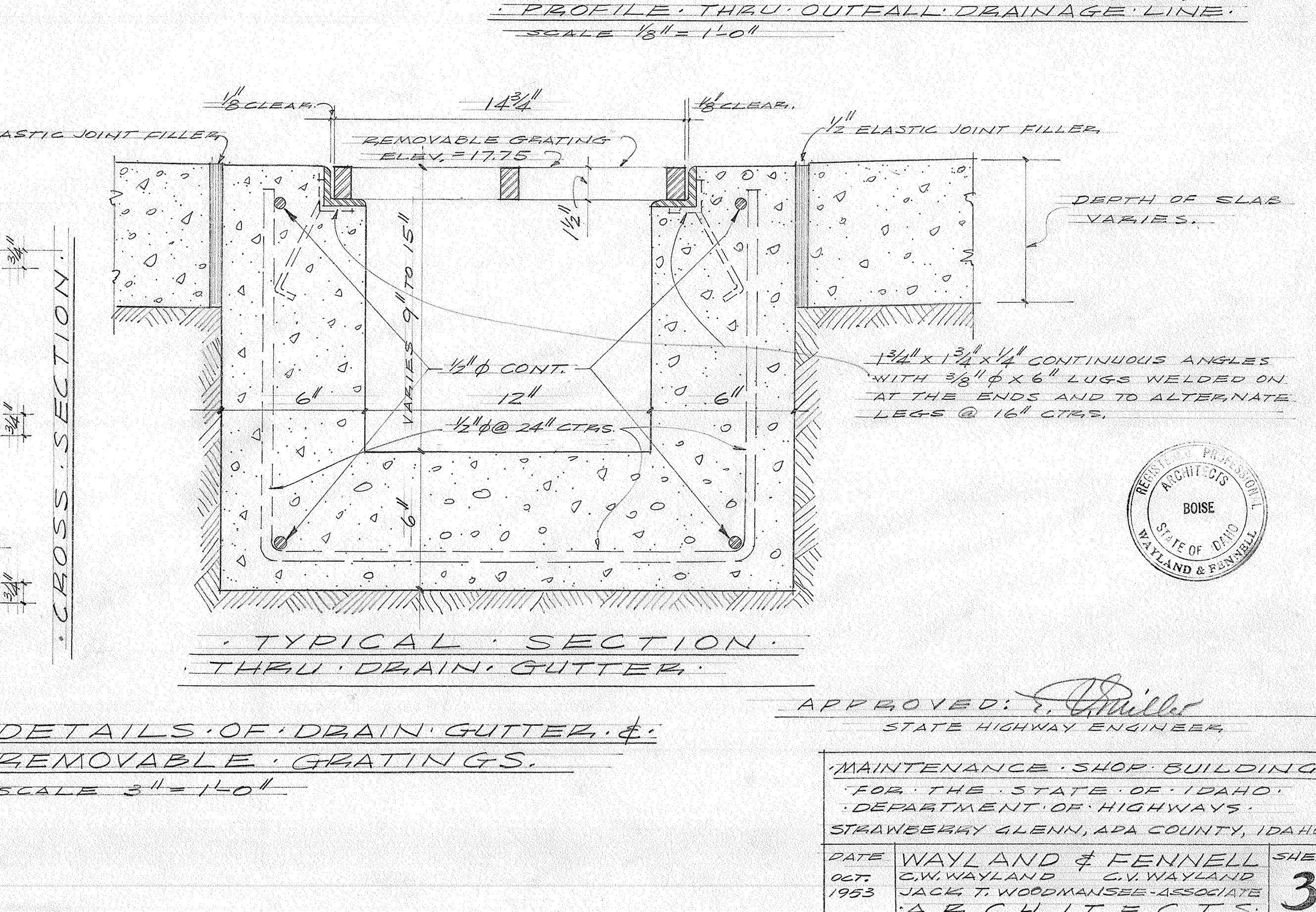
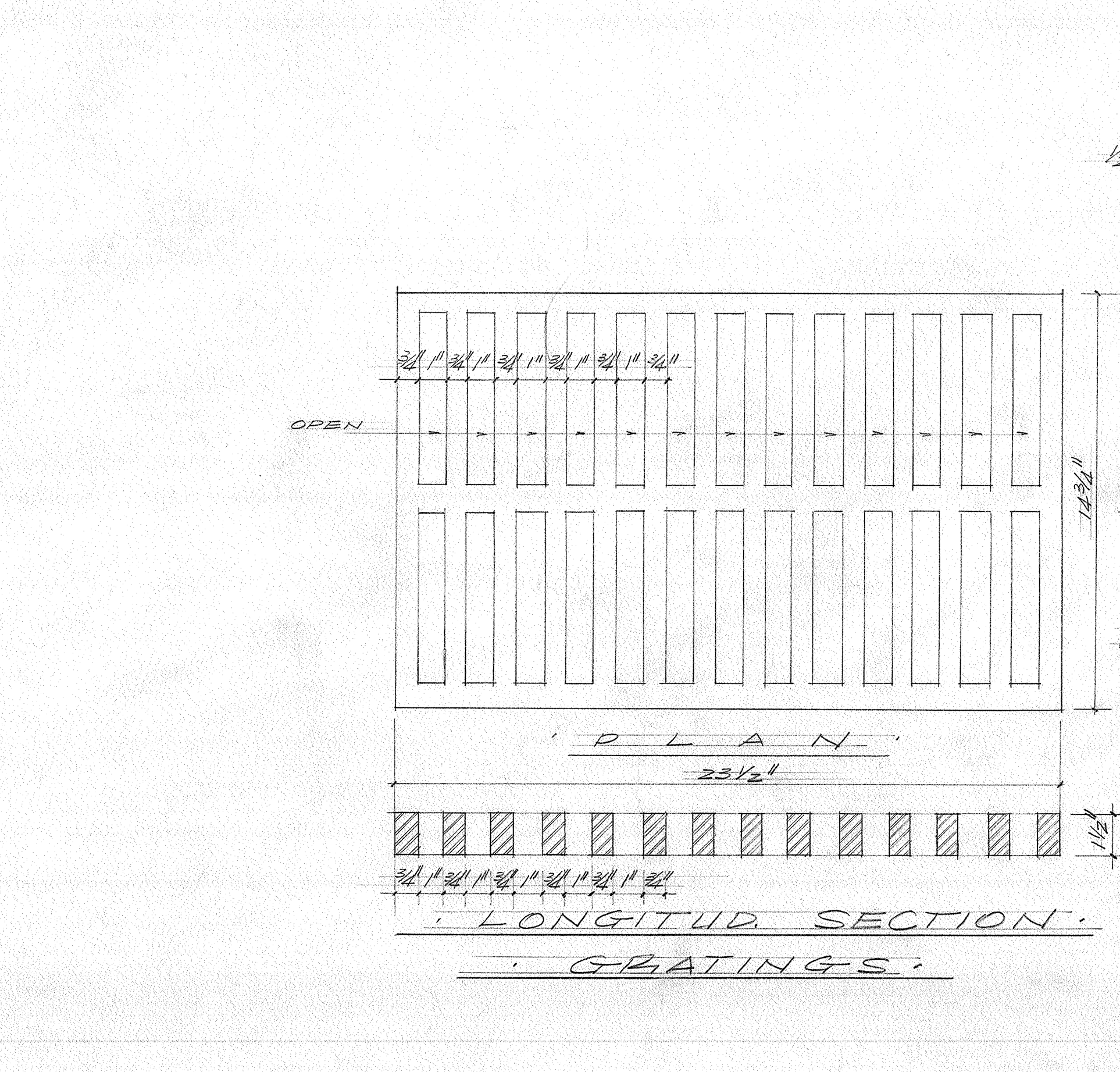
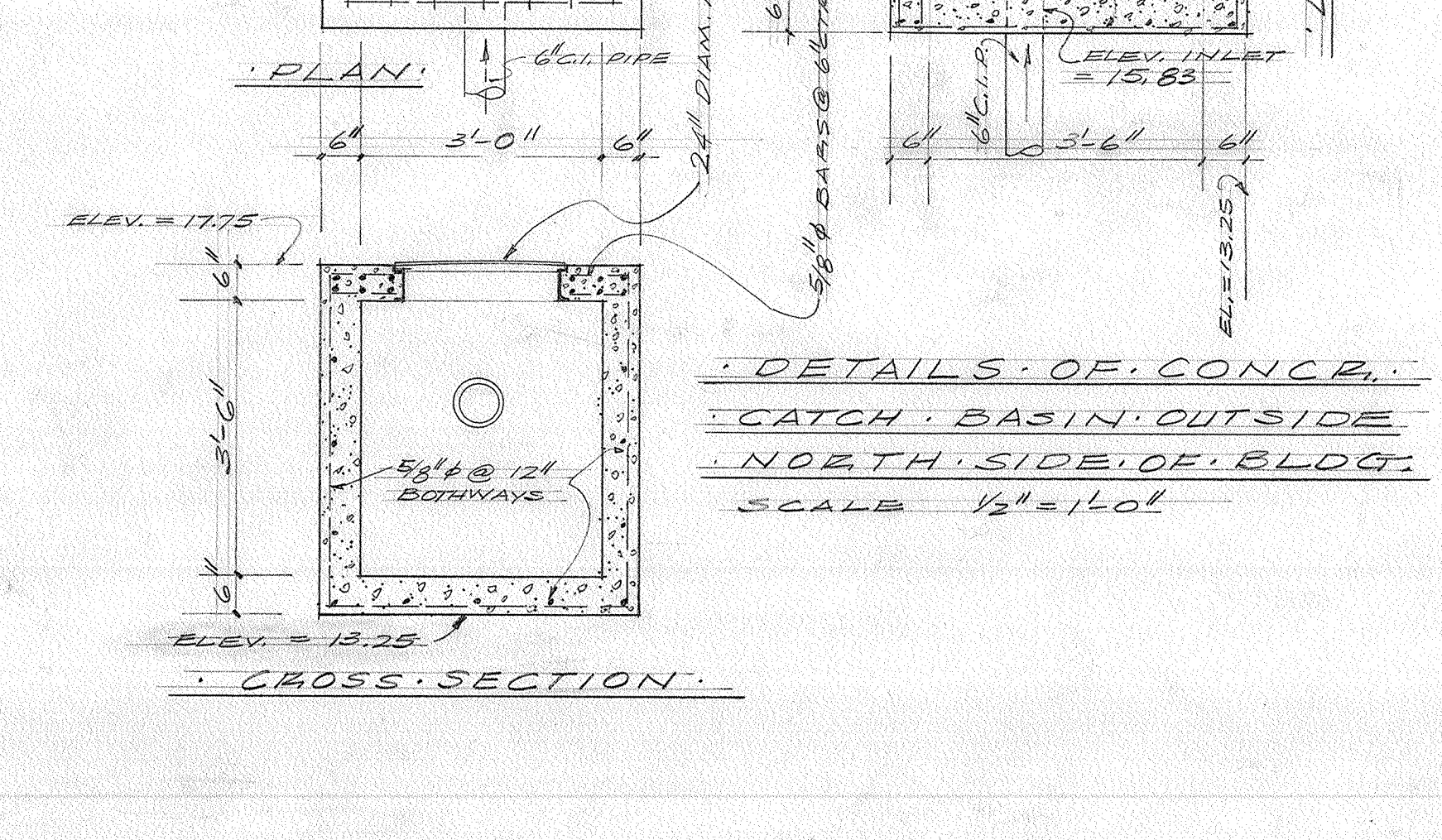
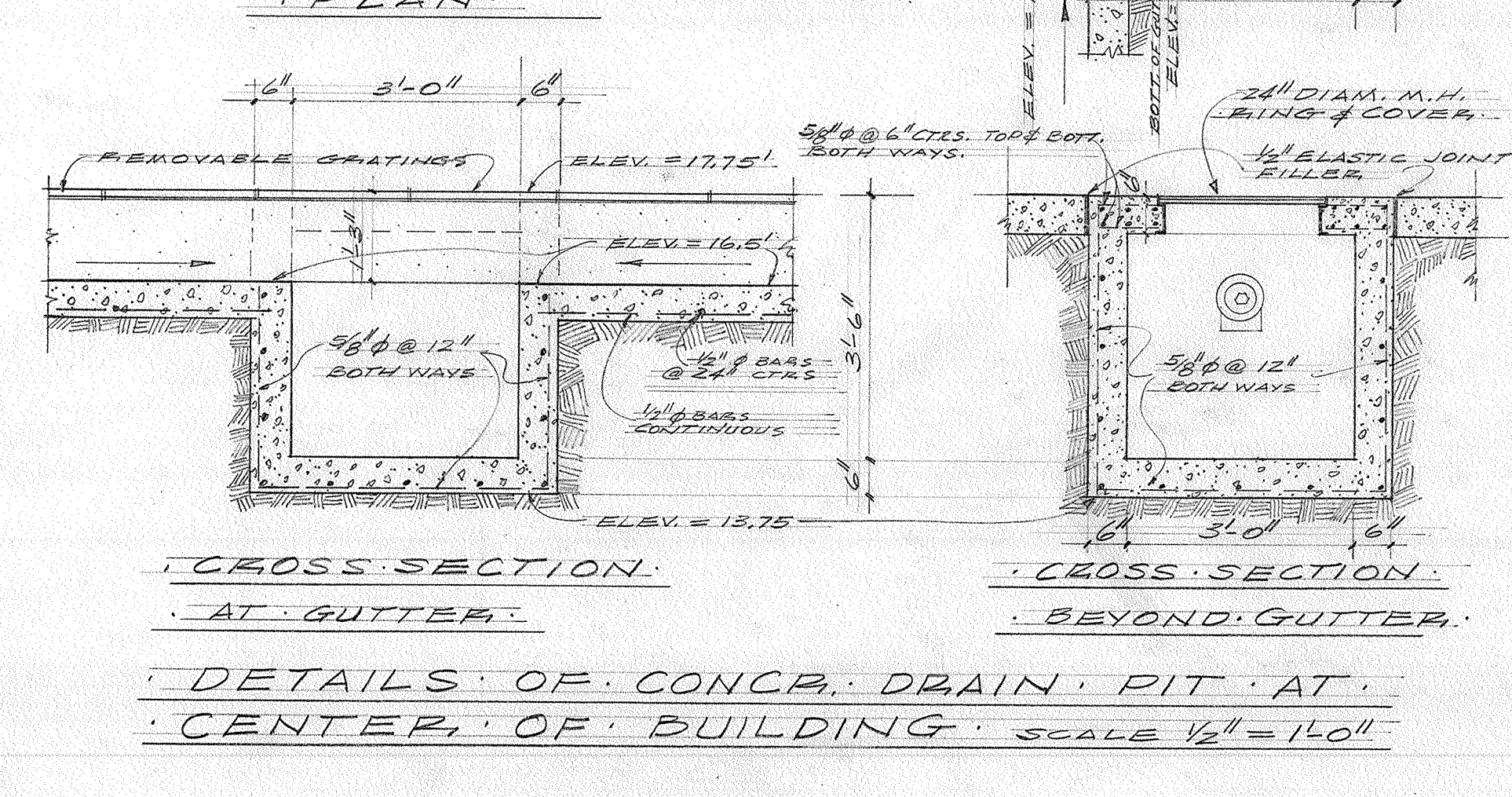
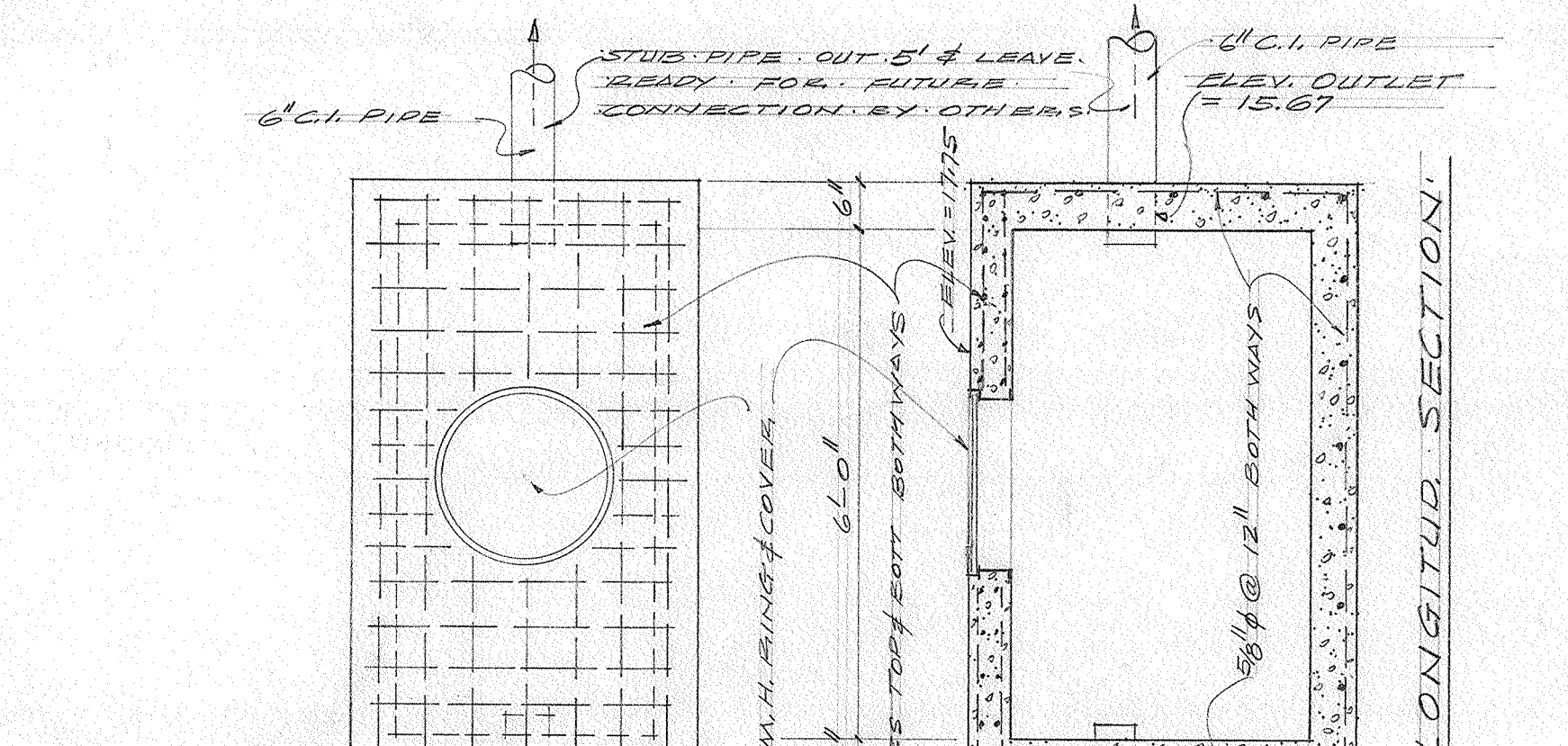
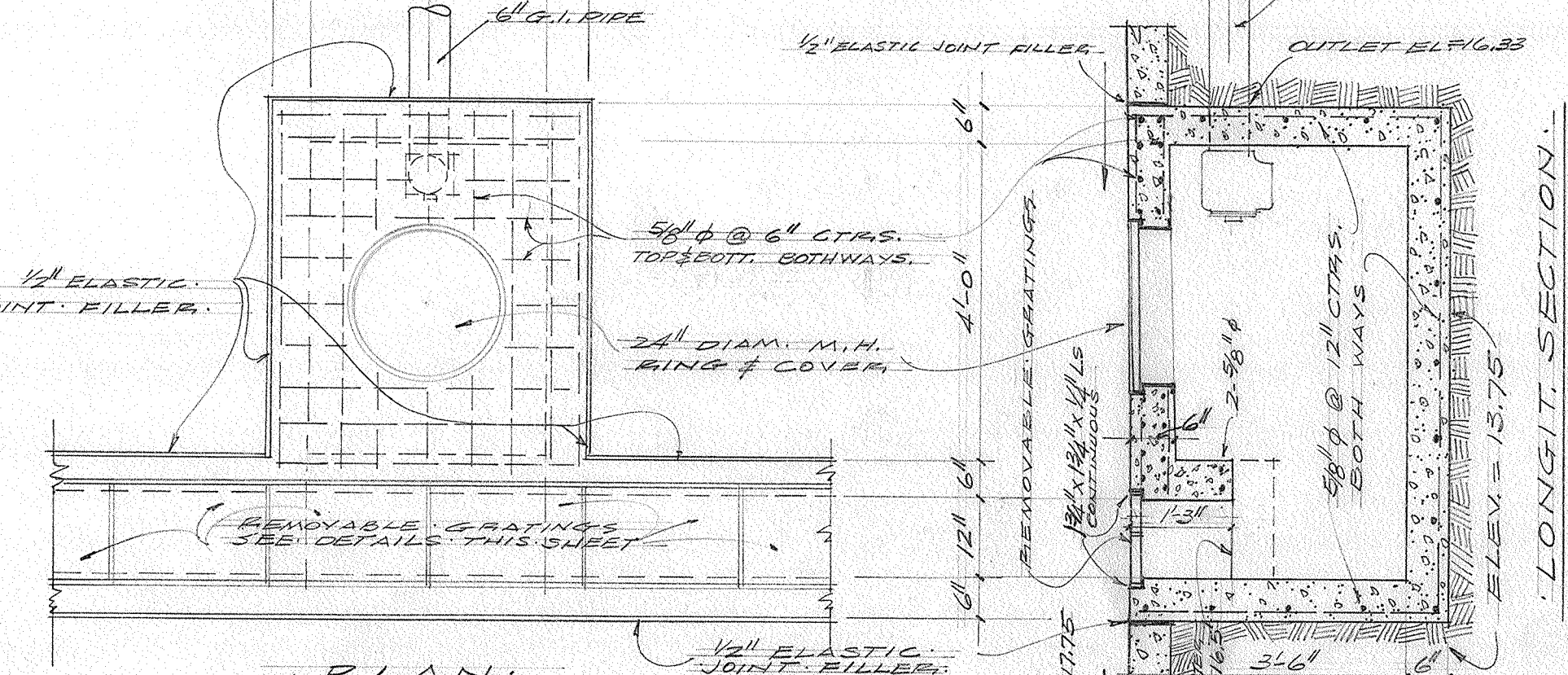
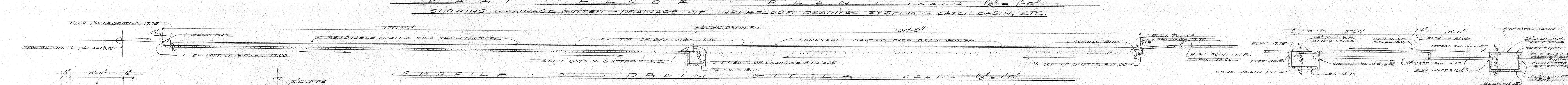
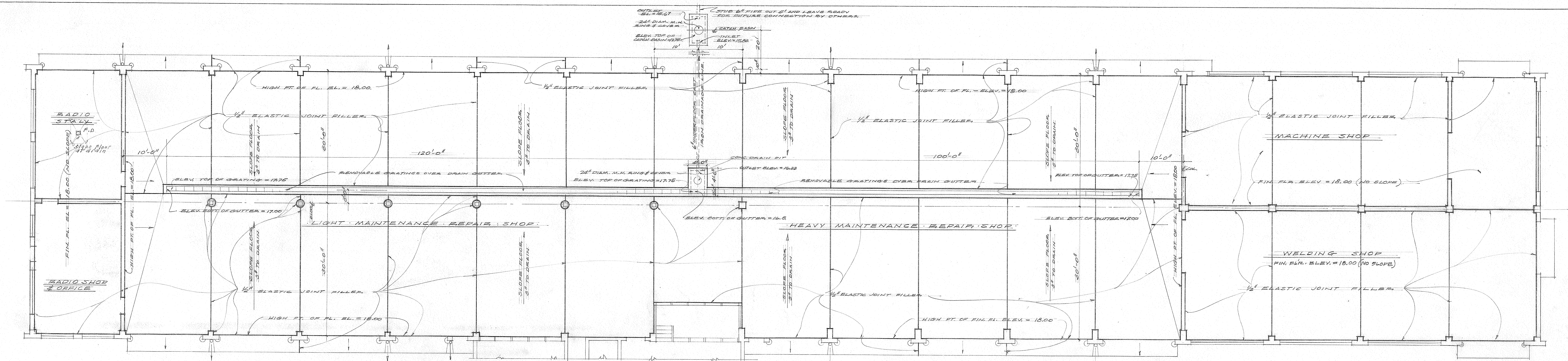


APPROVED: *[Signature]*
STATE HIGHWAY ENGINEER

MAINTENANCE SHOP BUILDING
FOR THE STATE OF IDAHO
DEPARTMENT OF HIGHWAYS
STRAWBERRY - GLENN, ADA COUNTY, IDAHO

DATE: WAYLAND & FENNEL
BY: C.W. WAYLAND C.V. WAYLAND
1953 JACK T. WOODMANSSE - ASOCC.
ARCHITECTS BOISE IDAHO

2

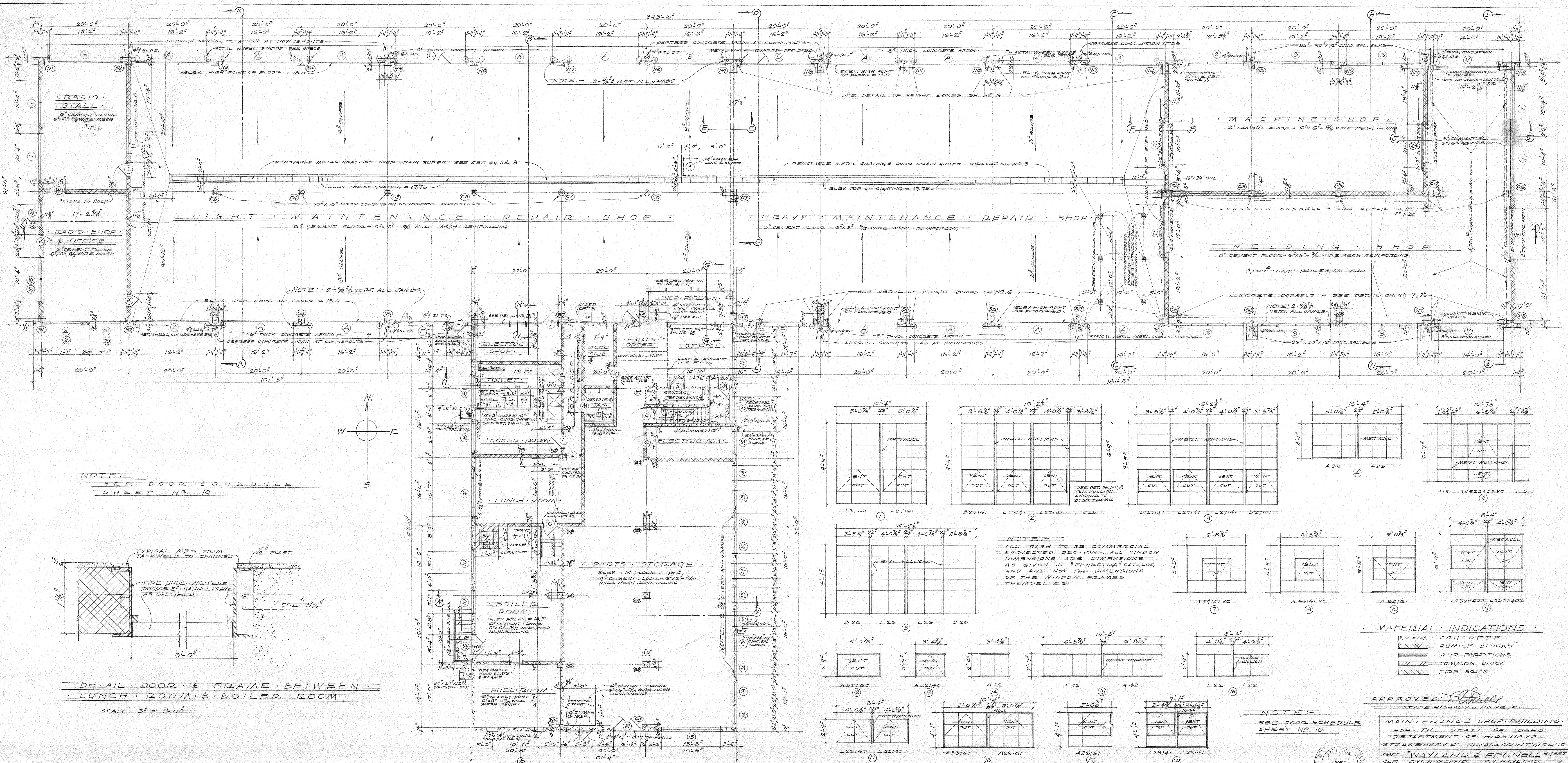


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STATE HIGHWAY ENGINEER

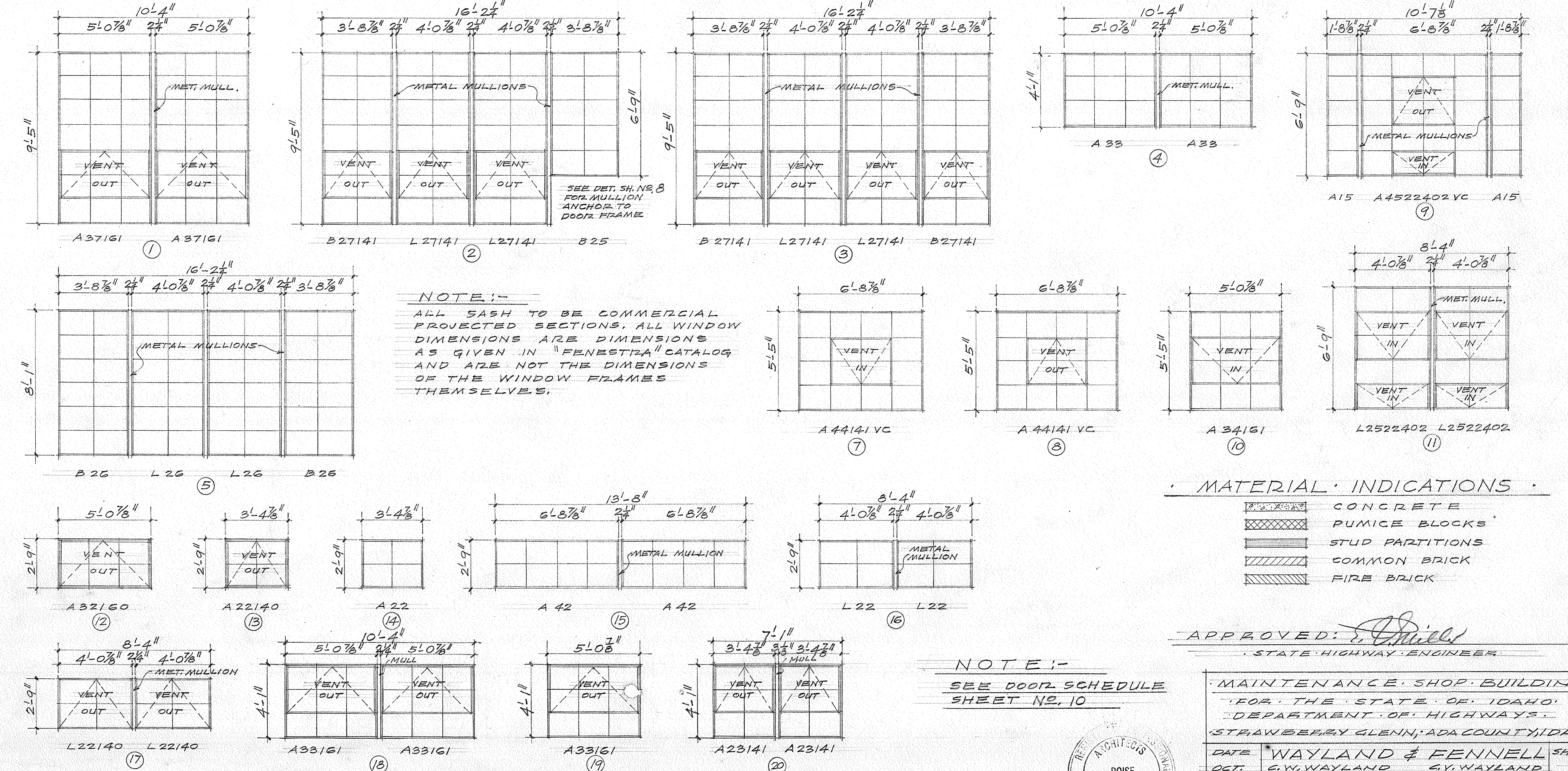
"MAINTENANCE SHOP BUILDING"
FOR THE STATE OF IDAHO
DEPARTMENT OF HIGHWAYS
STRAWBERRY GLENN, ADA COUNTY, IDAHO

DATE: OCT. 1953
WAYLAND & FENNEL
C.W. WAYLAND C.V. WAYLAND
JACK T. WOODMANISEE-ASSOCIATE
ARCHITECTS
BOISE, IDAHO

3

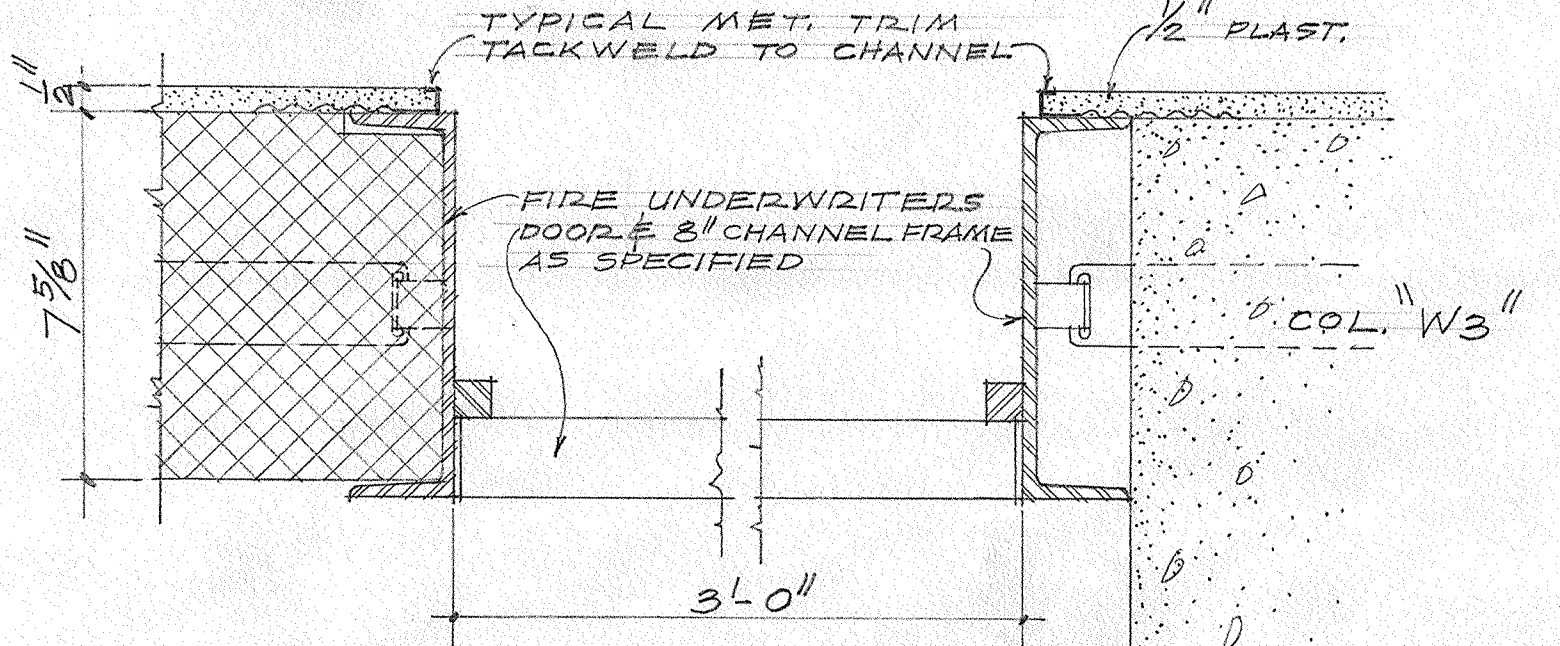


MAIN FLOOR PLAN
SCALE 1/8" = 1'-0"



WINDOW SCHEDULE
SCALE 1/4" = 1'-0"

NOTE:-
SEE DOOR SCHEDULE
SHEET NO. 10



DETAIL DOOR & FRAME BETWEEN LUNCH ROOM & BOILER ROOM

SCALE 3/4" = 1'-0"

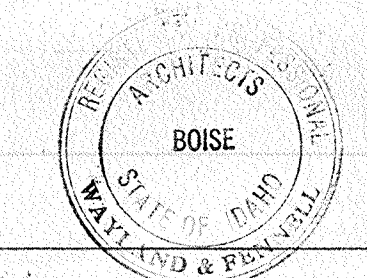
NOTE:-
ALL FLASH TO BE COMMERCIAL PROJECTED SECTIONS. ALL WINDOW DIMENSIONS ARE DIMENSIONS AS GIVEN IN "FENESTRA" CATALOG AND ARE NOT THE DIMENSIONS OF THE WINDOW FRAMES THEMSELVES.

- MATERIAL INDICATIONS**
- CONCRETE
 - PUMICE BLOCKS
 - STUD PARTITIONS
 - COMMON BRICK
 - FIRE BRICK

NOTE:-
SEE DOOR SCHEDULE
SHEET NO. 10

APPROVED: *[Signature]*
STATE HIGHWAY ENGINEER

MAINTENANCE SHOP BUILDING
FOR THE STATE OF IDAHO
DEPARTMENT OF HIGHWAYS
STRAWBERRY GLENN, ADA COUNTY, IDAHO
DATE: WAYLAND & FENNEL SHEET
OCT. 21, 1933
JACK T. WOODMANSEE, ASSOC.
ARCHITECTS
BOISE, IDAHO



R O O M - F I N I S H S C H E D U L E

ROOM	FLOORS	BASE	CONC. WALLS BEAMS, PIERS, ETC.	MASONRY WALLS & PARTNS.	STUD PARTITIONS	CEILINGS	REMARKS	ROOM	FLOORS	BASE	CONC. WALLS BEAMS, PIERS, ETC.	MASONRY WALLS & PARTNS.	STUD PARTITION	CEILINGS	REMARKS
FUEL ROOM	6" CEMENT	NONE	EXPOSED CONCRETE			EXPOSED CONCRETE	WOOD FRAME & REMOVABLE SLATS IN OPENING TO BOILER ROOM. METAL COAL CHUTES.	TOILET ADJACENT TO OFFICE	GREASEPROOF ASPHALT TILE OVER 4" CEMENT	4" HIGH RUBBER	PLASTER PUTTY COAT FIN.		LATH & PLASTER PUTTY COAT FIN.	PLASTER PUTTY COAT FIN. OVER CONCRETE	FURRED PARTN. BEHIND TOILET. MEDICINE CABINET OVER LAV. WOOD STOOL AT WINDOW
BOILER ROOM	6" CEMENT	NONE	EXPOSED CONCRETE	EXPOSED PUMICE BLOCK EXPOSED BRICK ON CHIMNEY.		EXPOSED CONCRETE	METAL TRIMBLE & CLEANOUT DOOR IN CHIMNEY. WOOD FRAME & SLATS TO FUEL ROOM. METAL FIRE DOOR & FRAME TO LUNCH ROOM. PIPE HANDRAIL ON CEMENT STEPS. FLOOR DRAINS & SUMP	OFFICE	GREASEPROOF ASPHALT TILE OVER 4" CEMENT	4" HIGH RUBBER	PLASTER SAND FINISH			3/4" ACOUSTICAL TILE ON SAND FINISH PLASTER PLASTER OVER RIS LATH AGAINST JOISTS	COUNTER GATE & RAIL - BY OWNER. WOOD STOOL AT WINDOWS SEE DETAILS FOR GLASS PARTITIONS.
LUNCH ROOM	4" CEMENT	4" HIGH RUBBER	PLASTER SAND FINISH	PLASTER SAND FINISH		3/4" ACOUSTICAL TILE ON SAND FIN. PLAST. PLAST. OVER RIS LATH AGAINST JOISTS ON PART OVER SUSPENDED CEILING ON PART. PLASTER SAND FIN. ON SUSPENDED CEILING FACIA.	MET. FIRE DOOR & FRAME TO BOILER ROOM. WOOD STOOL AT WINDOWS. SUSPENDED CEILING ON PART TO OFFICE. SEE DETAILS FOR SINK CABINET.	PARTS ORDER	4" CEMENT	NONE	EXPOSED CONCRETE CARBORUNDUM RUBBED	EXPOSED PUMICE BLOCK		3/4" ACOUSTICAL TILE ON SAND FINISH PLASTER PLASTER OVER RIS LATH AGAINST JOISTS.	COUNTER GATE & RAIL BY OWNER.
LOCKER ROOM	UNGLAZED CERAMIC TILE OVER 4" CEMENT	4" HIGH GLAZED CERAMIC TILE	PLASTER PUTTY COAT FIN.	PLASTER PUTTY COAT FIN.	LATH & PLASTER PUTTY COAT FIN.	PLASTER PUTTY COAT FIN. OVER RIS LATH AGAINST JOISTS	MET. SHOWER STALL & PARTN. WOOD STOOL AT WINDOWS DEPRESS FLOOR FOR TILE	SHOP FOREMAN	4" CEMENT	NONE	EXPOSED CONCRETE CARBORUNDUM RUBBED		SEE DETAILS	3/4" ACOUSTICAL TILE ON SAND FINISH OVER STRIPPING	CEMENT STEPS PIPE HANDRAIL AT STEPS SEE DETAILS FOR GLASS PARTITIONS
TOILET ROOM	UNGLAZED CERAMIC TILE OVER 4" CEMENT	4" HIGH GLAZED CERAMIC TILE	PLASTER PUTTY COAT FIN.	PLASTER PUTTY COAT FIN.	LATH & PLASTER PUTTY COAT FIN.	PLASTER PUTTY COAT FIN. OVER RIS LATH AGAINST JOISTS	MET. TOILET PARTNS. & DOORS. WOOD STOOL AT WINDOWS FLOOR DRAIN DEPRESS FLOOR FOR TILE	LIGHT MAINTENANCE REPAIR SHOP HEAVY MAINTENANCE REPAIR SHOP	4" CEMENT IN LIGHT SHOP 8" CEMENT IN HEAVY SHOP	NONE	EXPOSED CONCRETE	EXPOSED PUMICE BLOCK		5/8" SHEETROCK OVER STRIPPING	MET. GRATHING OVER DRAIN GUTTER. PIPE HANDRAIL OVER DRAIN AT METAL COVERED WEIGHT BONES FOR OVERHEAD DOORS IN HEAVY REPAIR SHOP. SPECIAL FOUNDATION & RAISES IN FLOOR SLAB IN ONE SECTION IN HEAVY REPAIR SHOP.
ELECTRIC SHOP	4" CEMENT	NONE	EXPOSED CONCRETE CARBORUNDUM RUBBED.	EXPOSED PUMICE BLOCK	SEE DETAILS	3/4" ACOUSTICAL TILE ON SAND FINISH PLASTER PLASTER OVER RIS LATH AGAINST JOISTS.	SEE DETAILS FOR GLASS PARTITIONS	RADIO STALL	6" CEMENT	NONE	EXPOSED CONCRETE	EXPOSED PUMICE BLOCK		5/8" SHEETROCK OVER STRIPPING	SEE DTL. FOR GLASS PARTN.
COFFEE SHOP	4" CEMENT	4" HIGH RUBBER	PLASTER PUTTY COAT FIN.	PLASTER PUTTY COAT FIN.		3/4" ACOUSTICAL TILE ON SAND FINISH PLASTER	SUSPEND CEILING TO 6'6" PROVIDE SCUTTLE TO ATTIC	RADIO SHOP & OFFICE	6" CEMENT	NONE	EXPOSED CONCRETE	EXPOSED PUMICE BLOCK		5/8" SHEETROCK OVER STRIPPING	SEE DTL. FOR GLASS PARTN.
TOOL CRIB	4" CEMENT	NONE	EXPOSED CONCRETE	EXPOSED PUMICE BLOCK		EXPOSED CONCRETE ON PART		MACHINE SHOP	6" CEMENT		EXPOSED CONCRETE	EXPOSED PUMICE BLOCK	5/8" SHEETROCK OVER STUDS ON UPPER PART OF SOUTH & EAST PARTITIONS TO WELDING SHOP	5/8" SHEETROCK OVER STRIPPING	
JANITOR'S CLOS.	GREASEPROOF ASPHALT TILE OVER 4" CEMENT	4" HIGH RUBBER		PLASTER PUTTY COAT FIN.	LATH & PLASTER PUTTY COAT FIN.	PLASTER PUTTY COAT FIN. OVER RIS LATH AGAINST JOISTS	SEE DETAILS FOR SHELVING FLOOR DRAIN FURRED PARTN. AT ONE END								
PARTS STORAGE	4" CEMENT	NONE	EXPOSED CONCRETE	EXPOSED PUMICE BLOCK		EXPOSED CONCRETE	METAL-CLAD DOOR & FRAME TO ELECTRIC ROOM & STAIRWAY GOING UP	WELDING SHOP	8" CONCRETE		EXPOSED CONCRETE	EXPOSED PUMICE BLOCK	5/8" SHEETROCK OVER STUDS ON UPPER PART OF NORTH & WEST PARTITIONS TO MACHINE SHOP	5/8" SHEETROCK OVER STRIPPING	METAL COVERED WEIGHT BONES FOR OVERHEAD DOORS CRANE BEAMS & RAILS FOR 4000# OVERHEAD CRANE & HOIST AND 2,000# CRANE & HOIST
ELECTRIC ROOM	4" CEMENT	NONE	EXPOSED CONCRETE	EXPOSED PUMICE BLOCK		EXPOSED CONCRETE	METAL-CLAD DOOR & FRAME	UPPER PART HEAVY MAINTENANCE REPAIR SHOP			EXPOSED CONCRETE			5/8" SHEETROCK OVER STRIPPING	CRANE BEAMS & RAILS FOR 10 TON OVERHEAD ELECTRIC TRAVELLING CRANE.
STAIRS GOING UP TO STORAGE WAREHOUSE	4" CEMENT	NONE	EXPOSED CONCRETE			EXPOSED CONCRETE	METAL SAFETY TREADS ON REINFORCED CONC. STEPS PIPE HANDRAILS METAL-CLAD DOOR & FRAME.	STORAGE WAREHOUSE	CONCRETE 3/8" T.G. OVER FUTURE ELEVATOR SHAFT		EXPOSED CONCRETE	EXPOSED BRICK ON CHIMNEY.		5/8" SHEETROCK OVER STRIPPING PLYWOOD ON SEAM FACIA AND SOFFIT	PIPE GUARDRAILS AROUND STAIRWELL - SEE DETAILS STEEL PIPE COLUMNS
STORAGE ADJACENT TO OFFICE	GREASEPROOF ASPHALT TILE OVER 4" CEMENT	4" HIGH RUBBER	PLASTER SAND FINISH			PLASTER SAND FINISH OVER CONCRETE	SEE DETAILS FOR SHELVING	STAIRS GOING DOWN TO PARTS STORAGE			EXPOSED CONCRETE				METAL SAFETY TREADS ON REINFORCED CONCRETE STEPS PIPE HANDRAILS

APPROVED: *T. Miller*
STATE HIGHWAY ENGINEER.

REGISTERED PROFESSIONAL
ARCHITECTS
BOISE
STATE OF IDAHO
WAYLAND & FENNEL

MAINTENANCE SHOP BUILDING
FOR THE STATE OF IDAHO
DEPARTMENT OF HIGHWAYS
STRAWBERRY GLENN, ADA COUNTY, IDAHO

DATE: WAYLAND & FENNEL
OCT. C.W. WAYLAND C.W. WAYLAND
1953 JACK T. WOODMANSEE-ASSOC.
ARCHITECTS
BOISE IDAHO

5

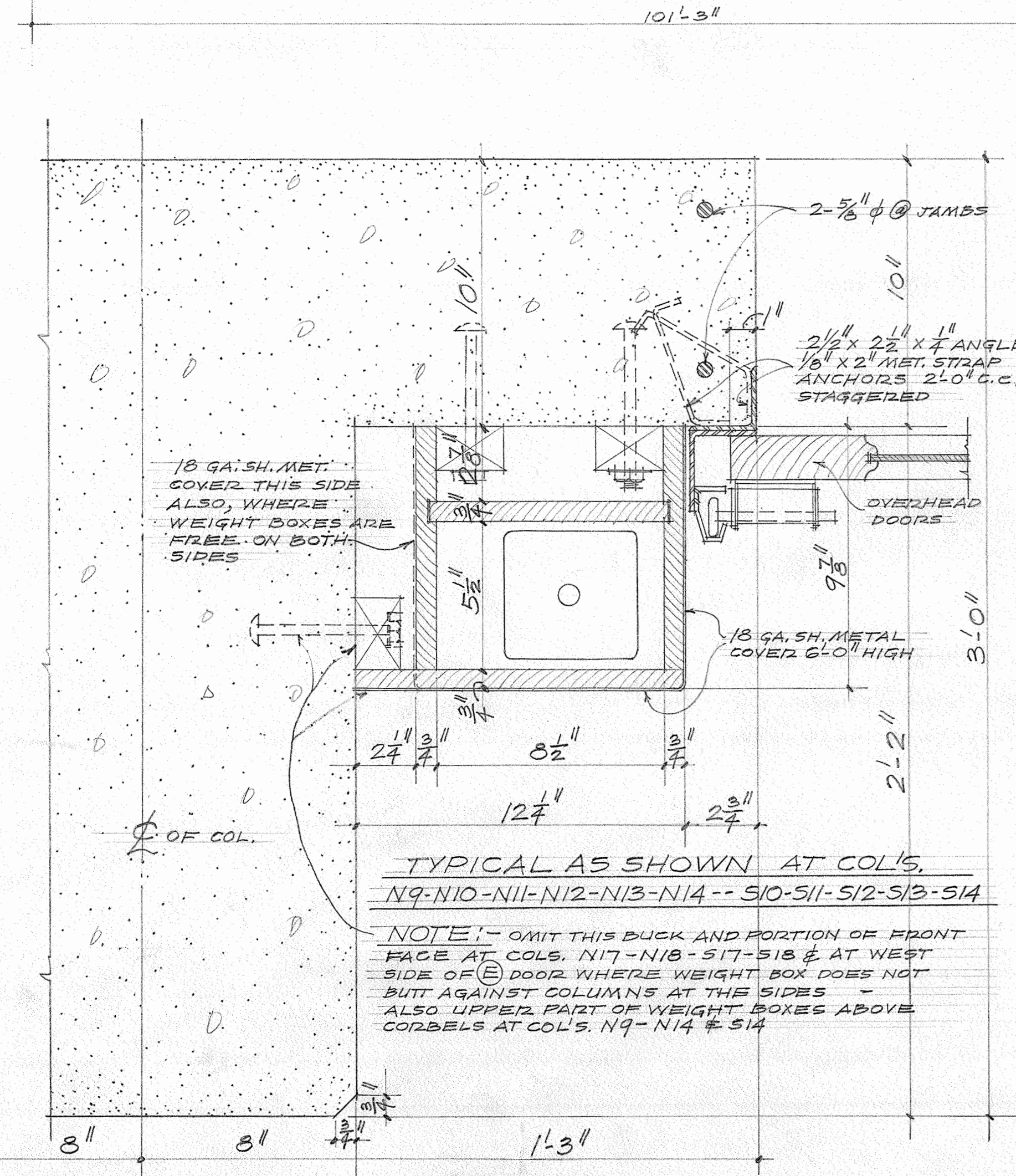
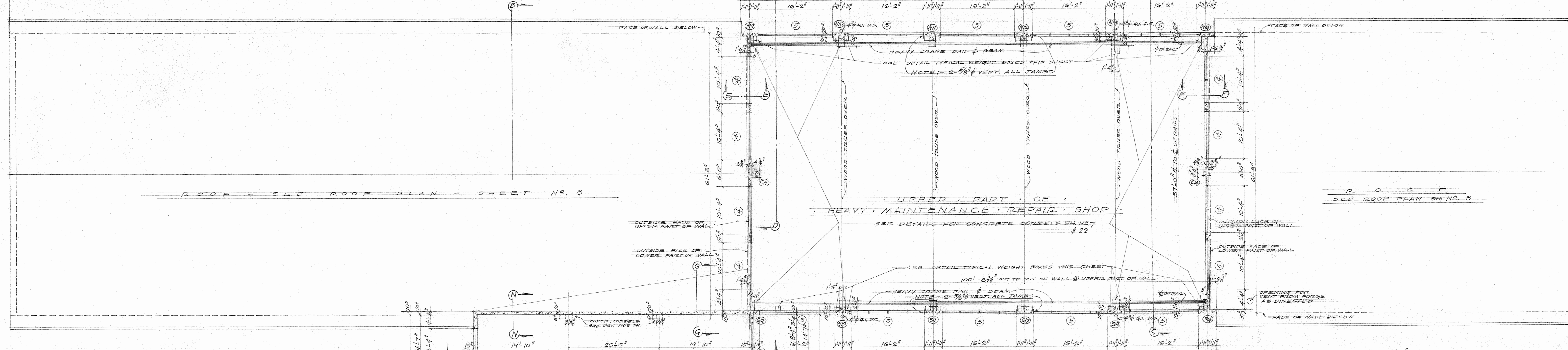
160'-0"

80'-0"

ROOF - SEE ROOF PLAN - SHEET NO. 8

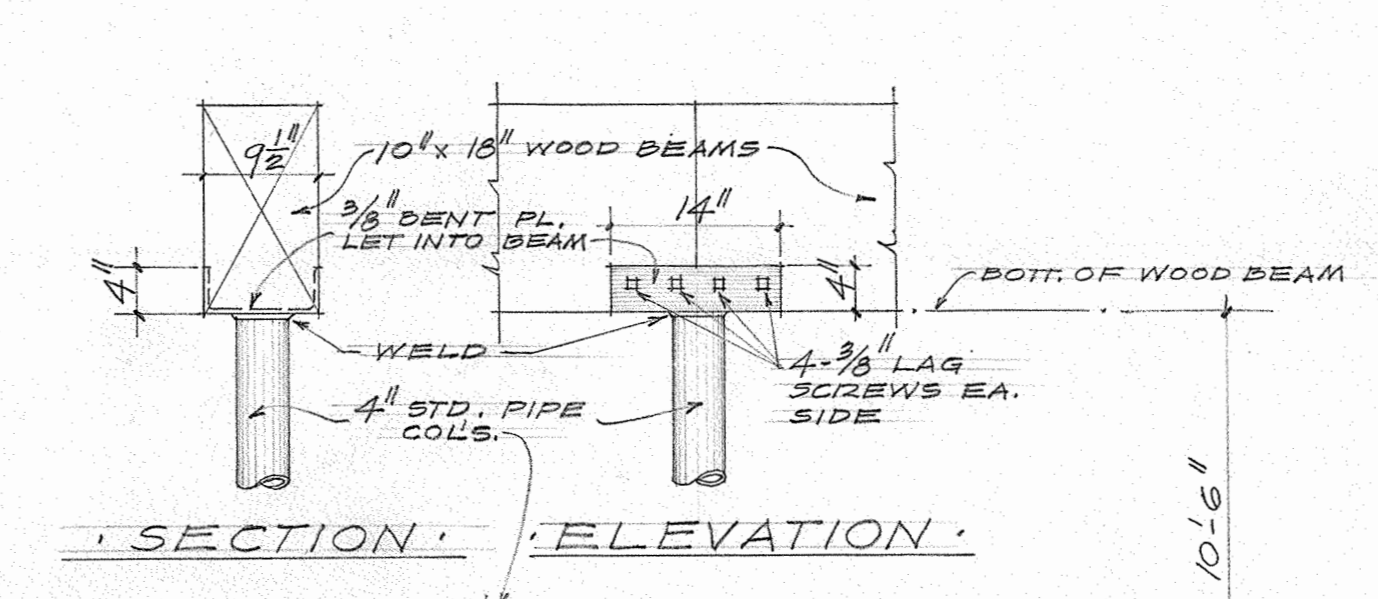
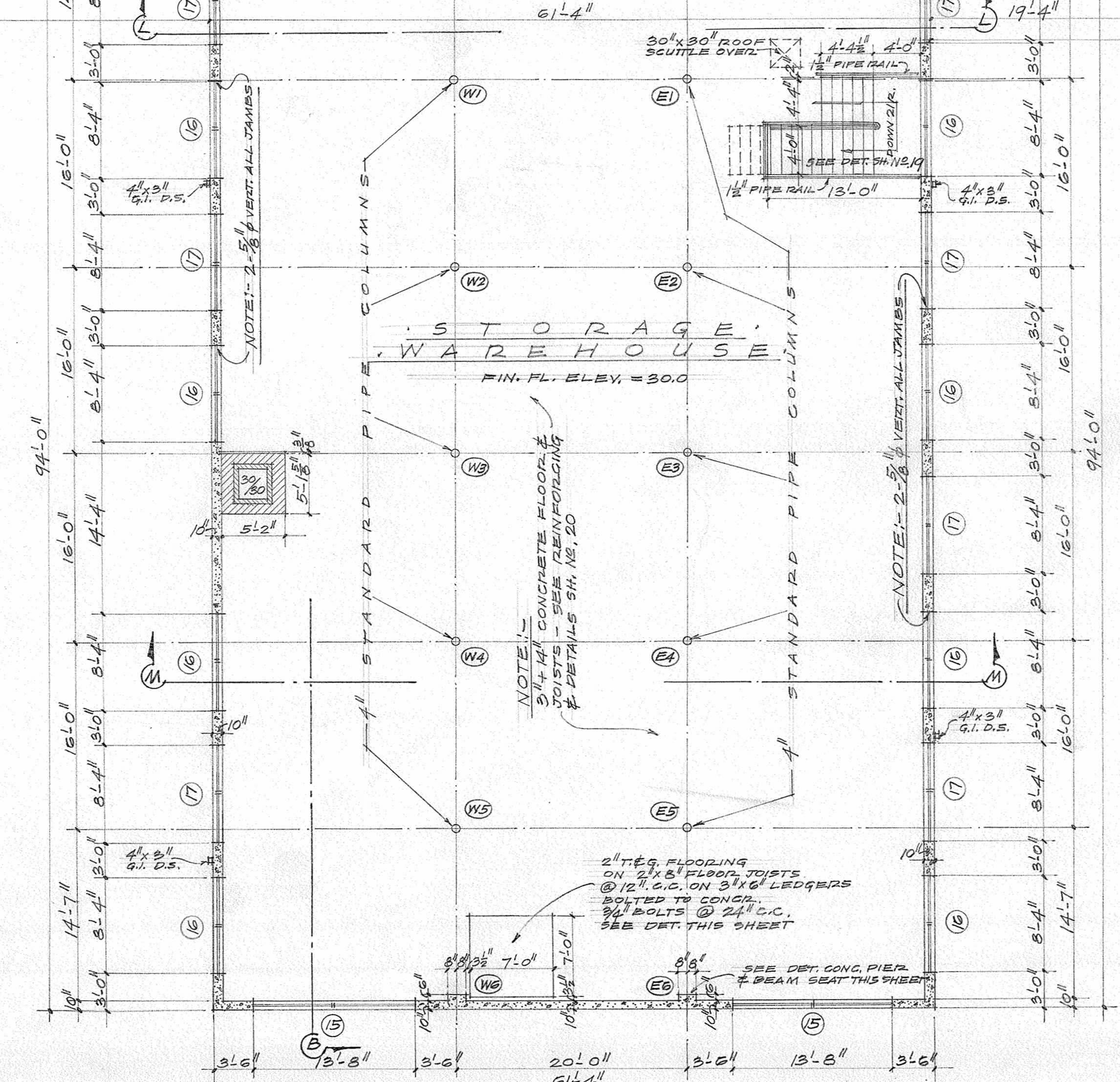
ROOF
SEE ROOF PLAN SH. NO. 8

UPPER PART OF
HEAVY MAINTENANCE REPAIR SHOP



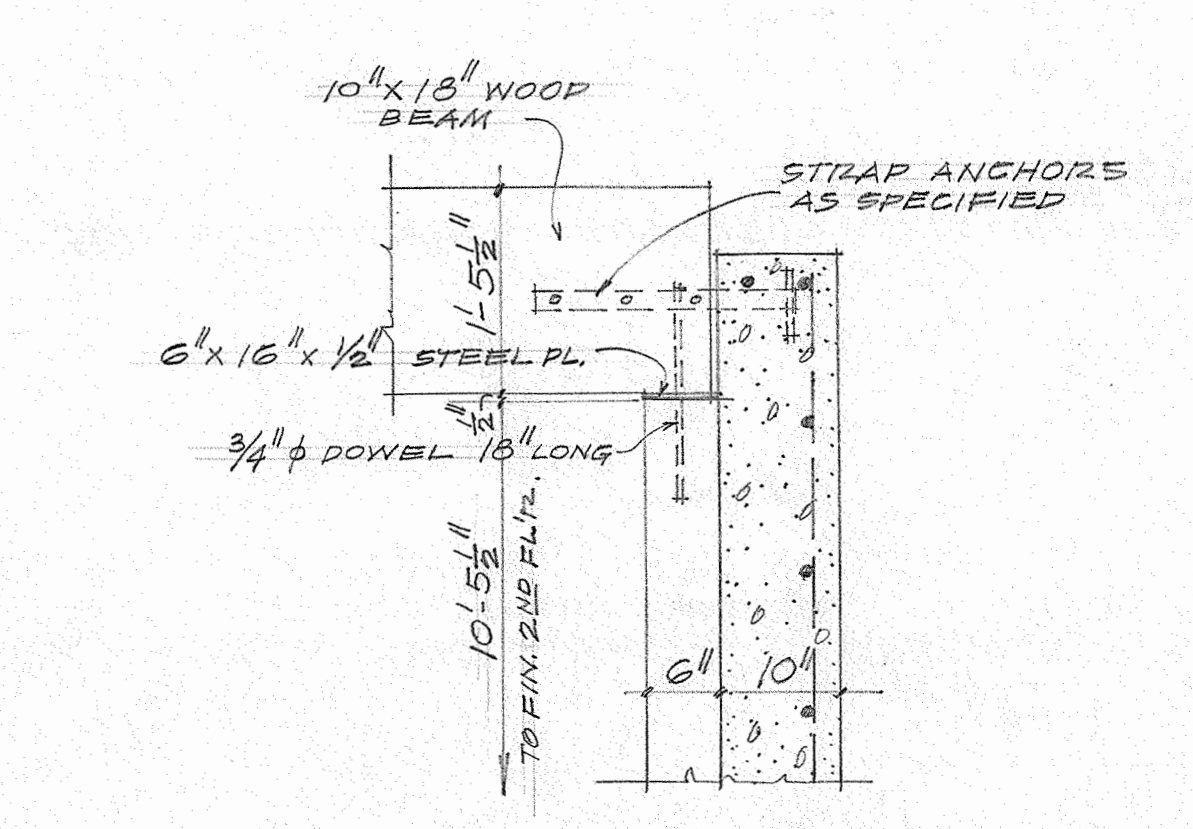
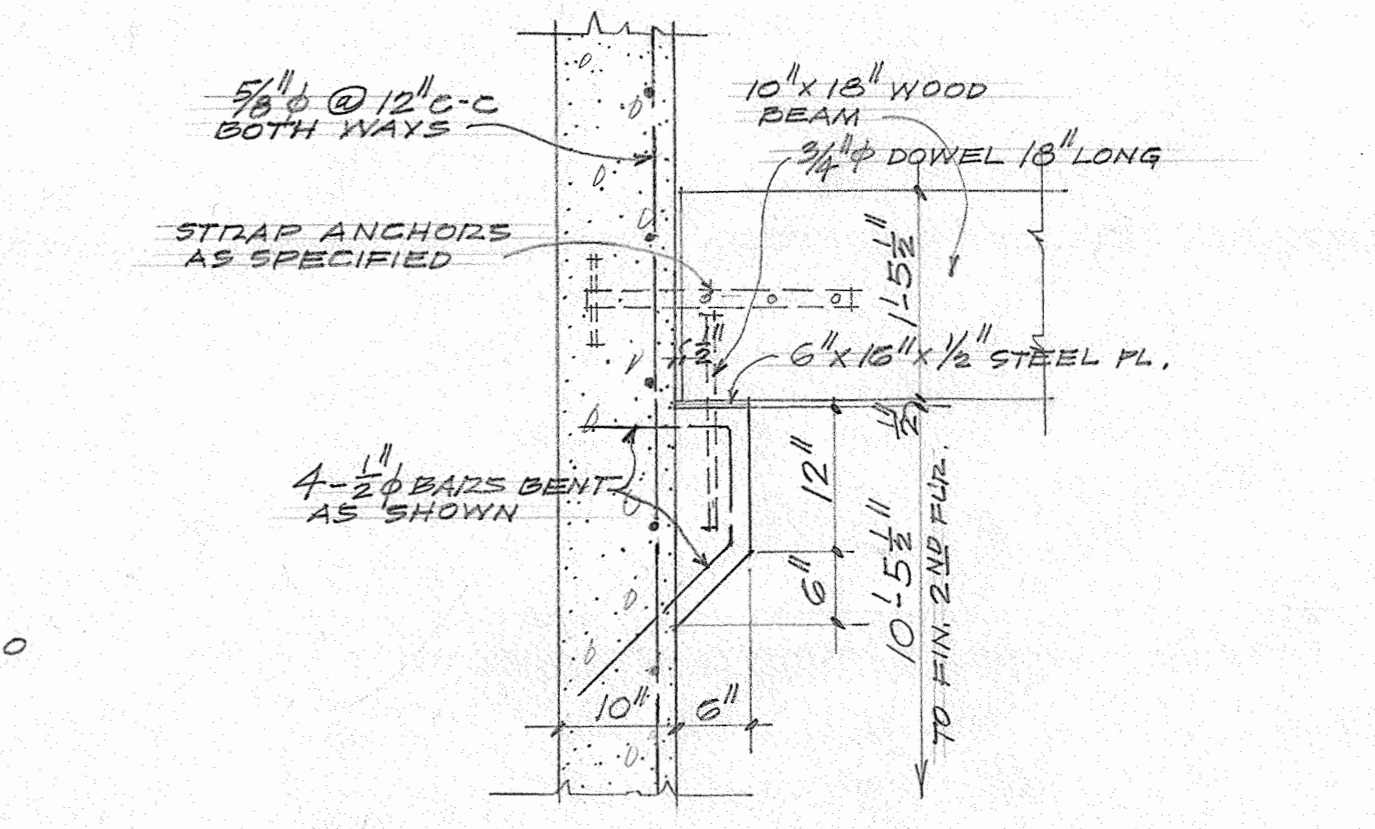
DETAIL OF WEIGHT BOXES AT
OVERHEAD DOORS
SCALE 3/8" = 1'-0"

NOTE: - TYPICAL AS SHOWN - VARY AS NOTED

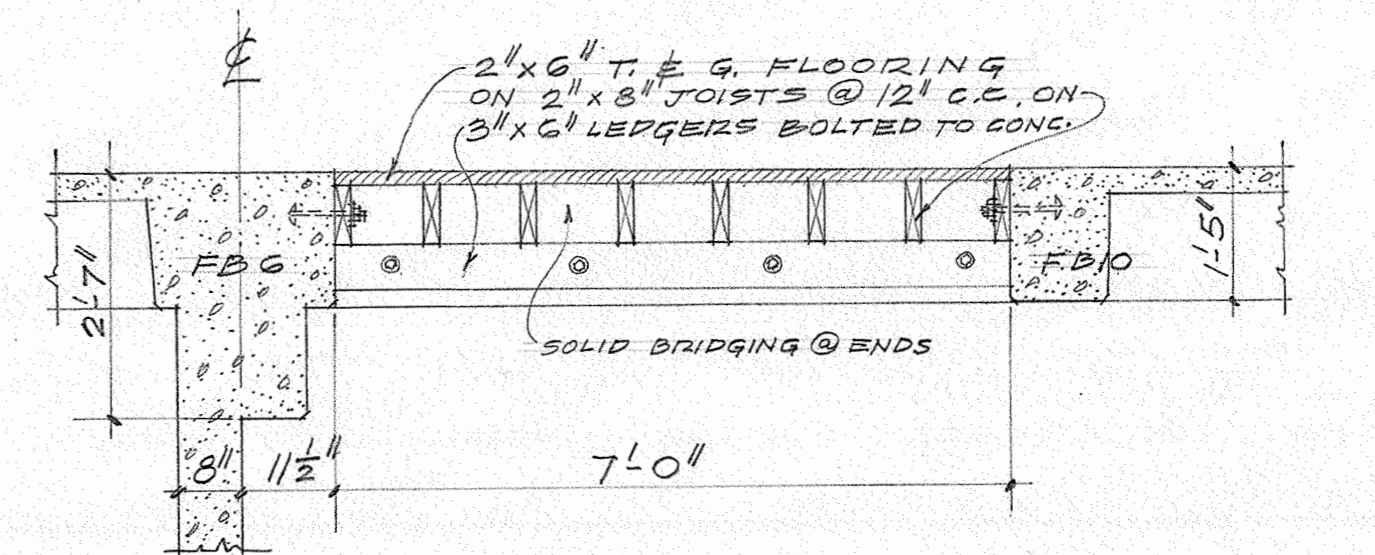


DETAIL COLUMN & BEAM
CONNECTIONS IN STORAGE
WAREHOUSE WING
SCALE 3/4" = 1'-0"

NOTE: -
DETAIL APPLIES TO STEEL PIPE COL'S.
W1-2-3-4-5 & E-1-2-3-4-5



DETAILS WOOD BEAM SEATS IN
STORAGE WAREHOUSE



MATERIAL INDICATIONS

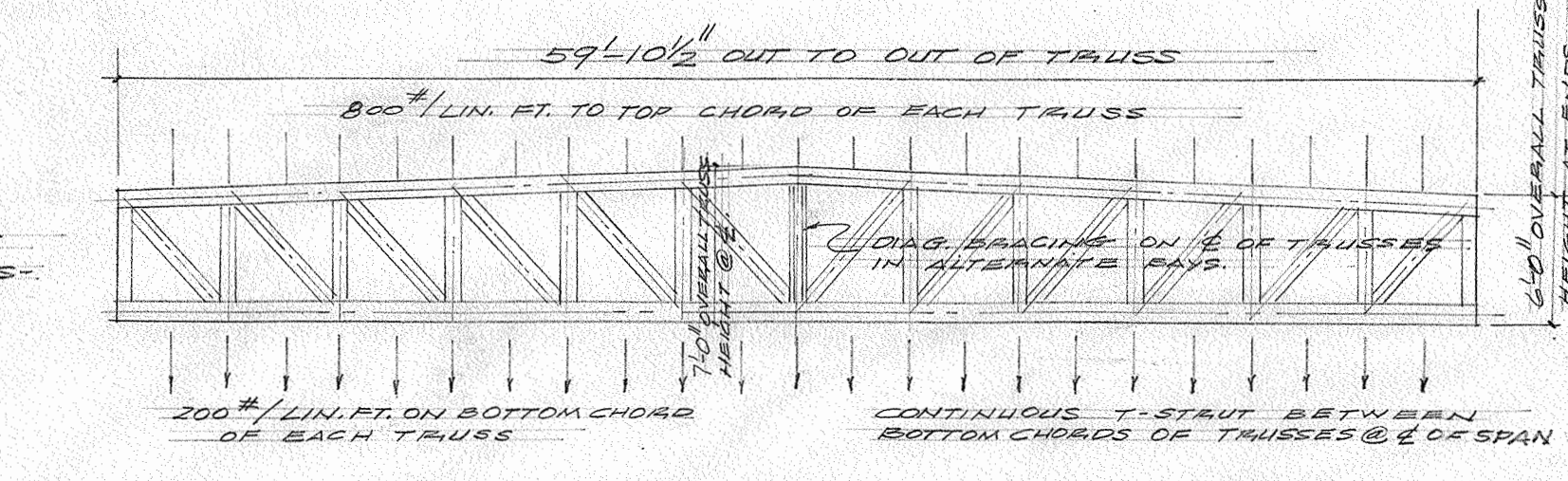
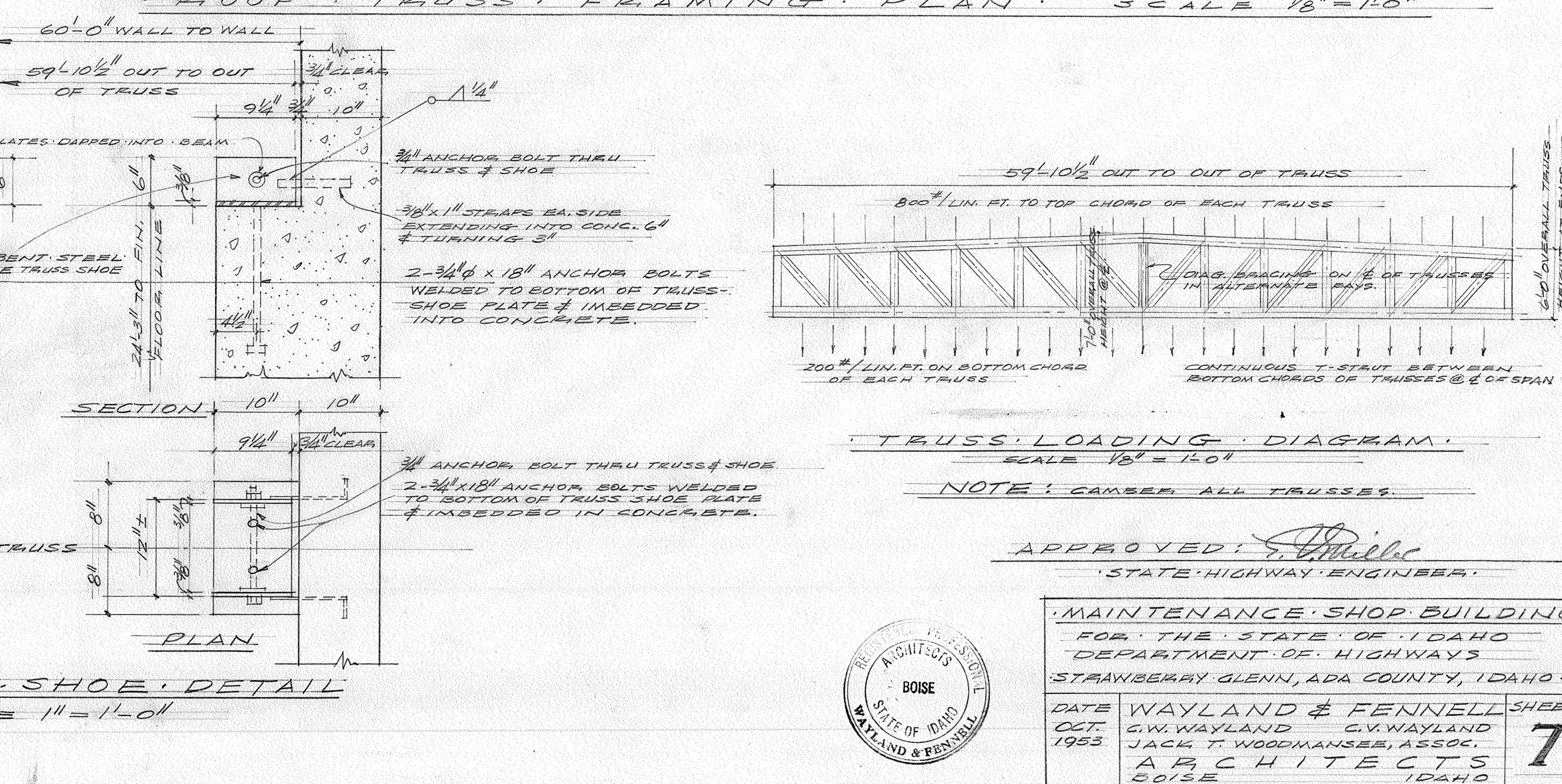
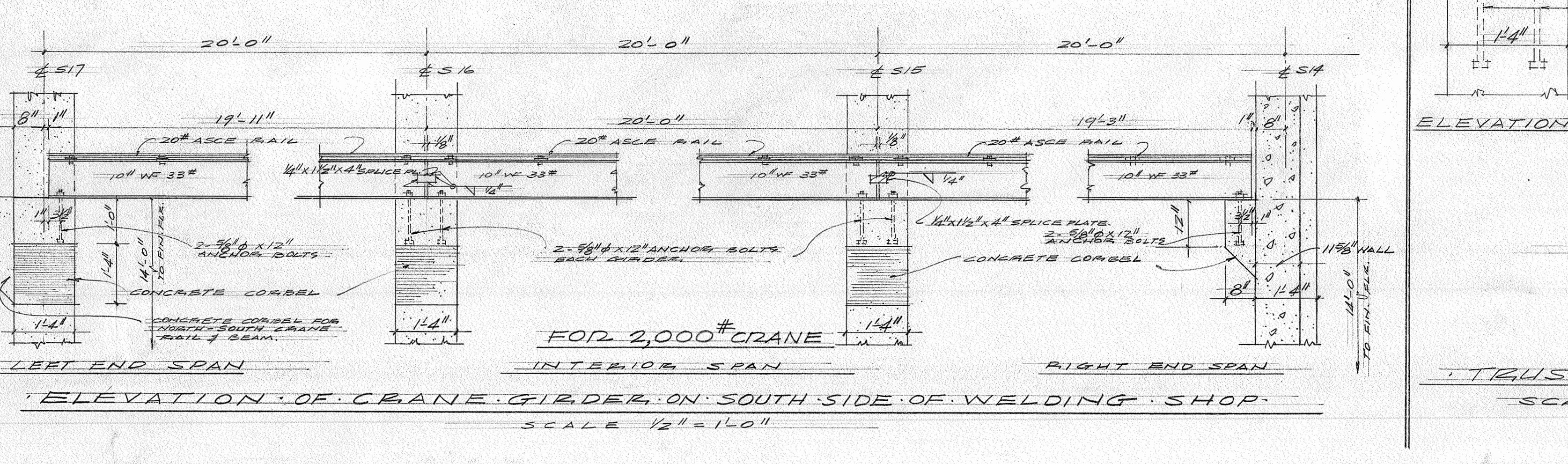
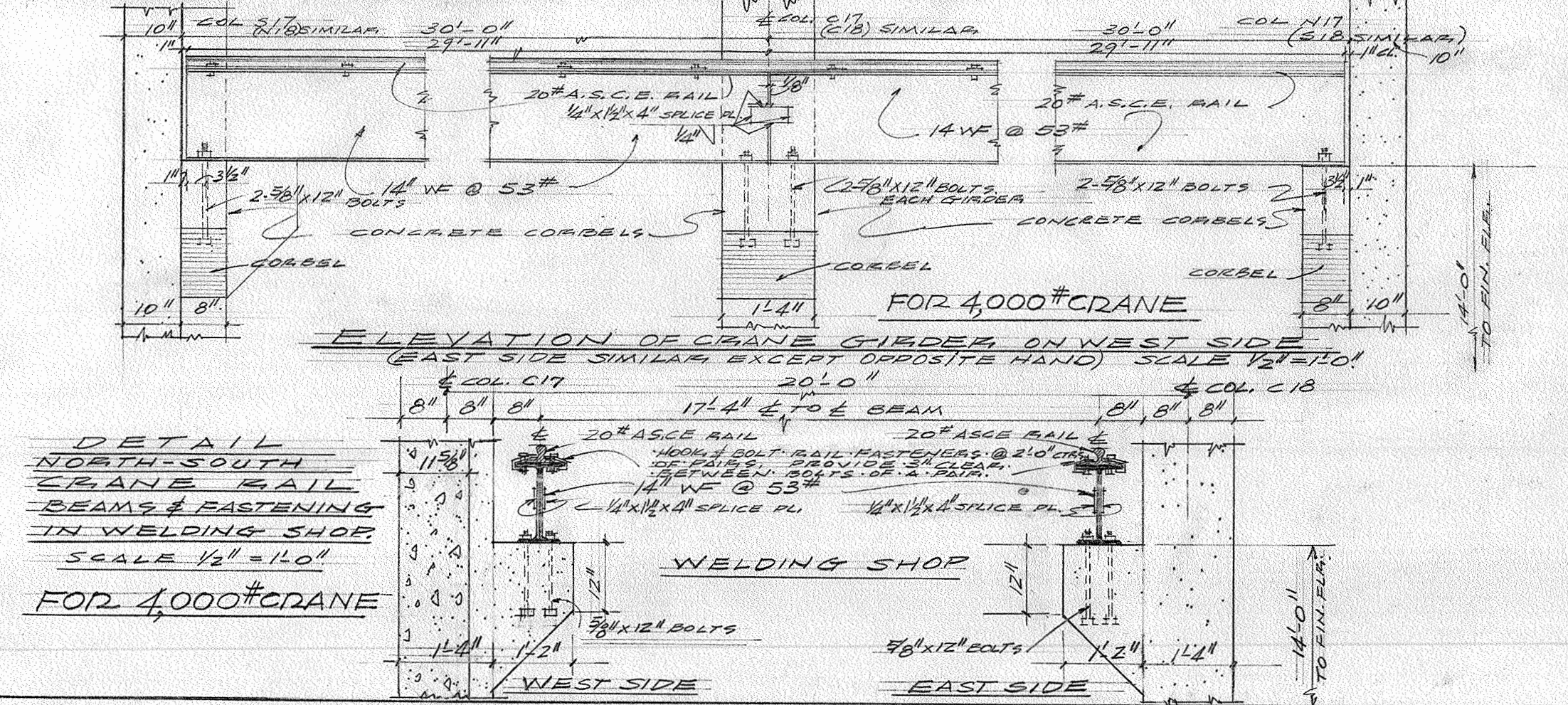
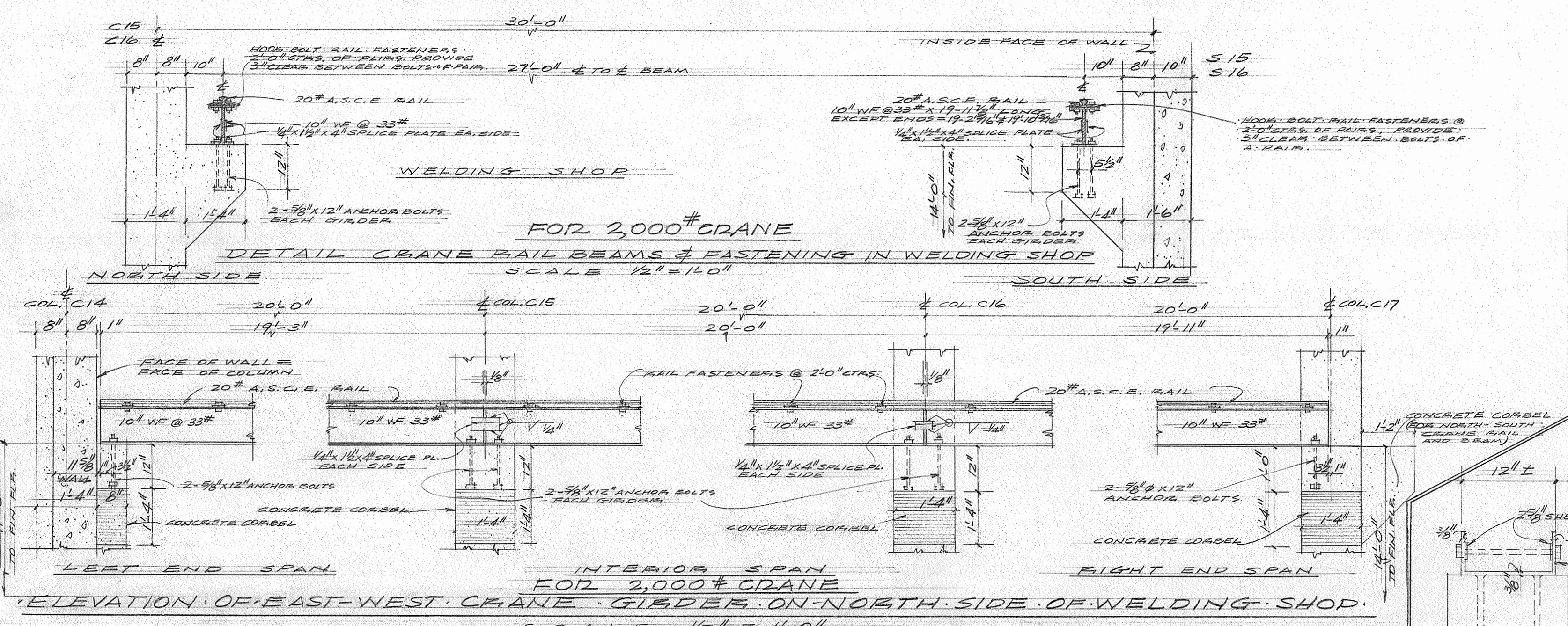
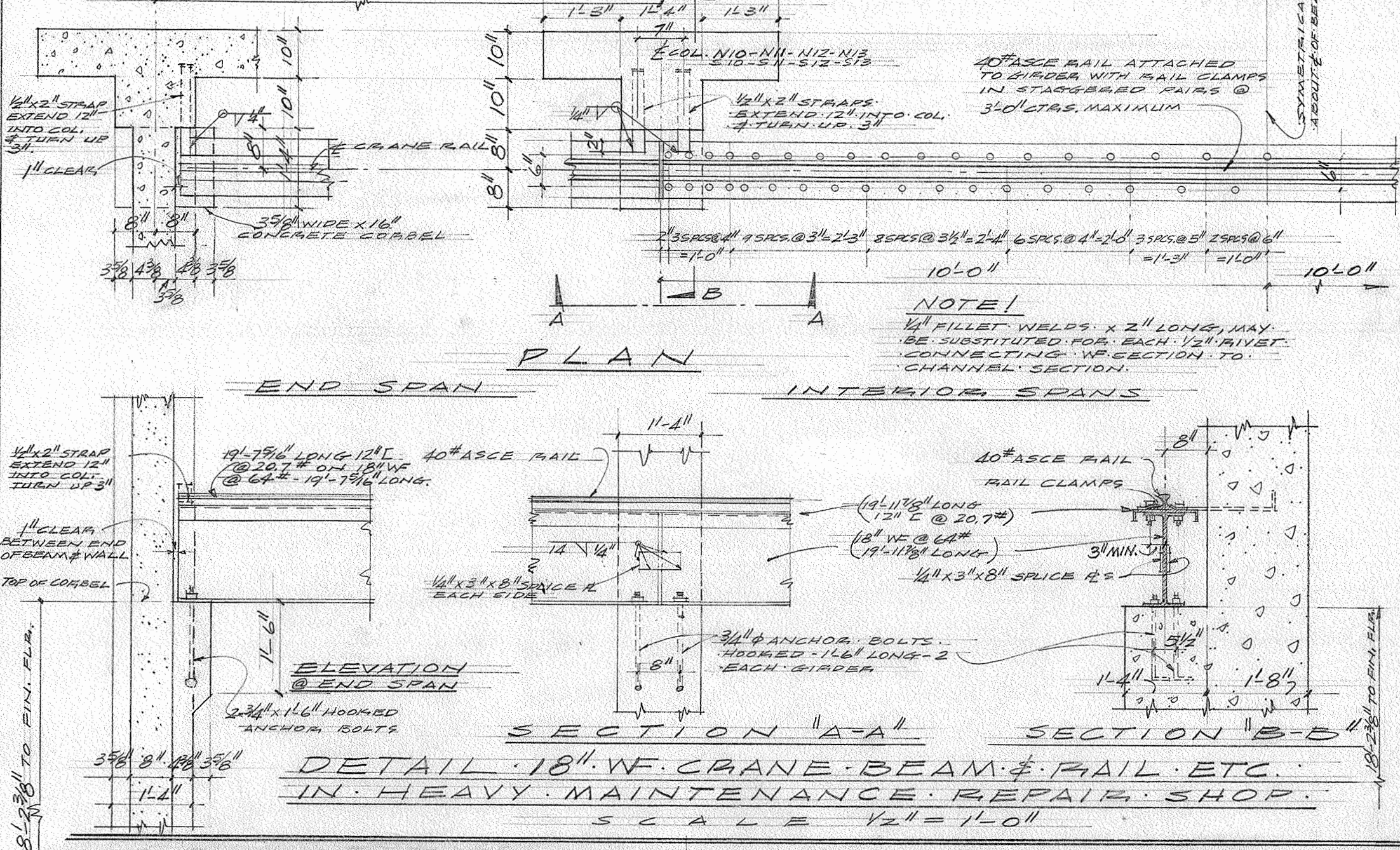
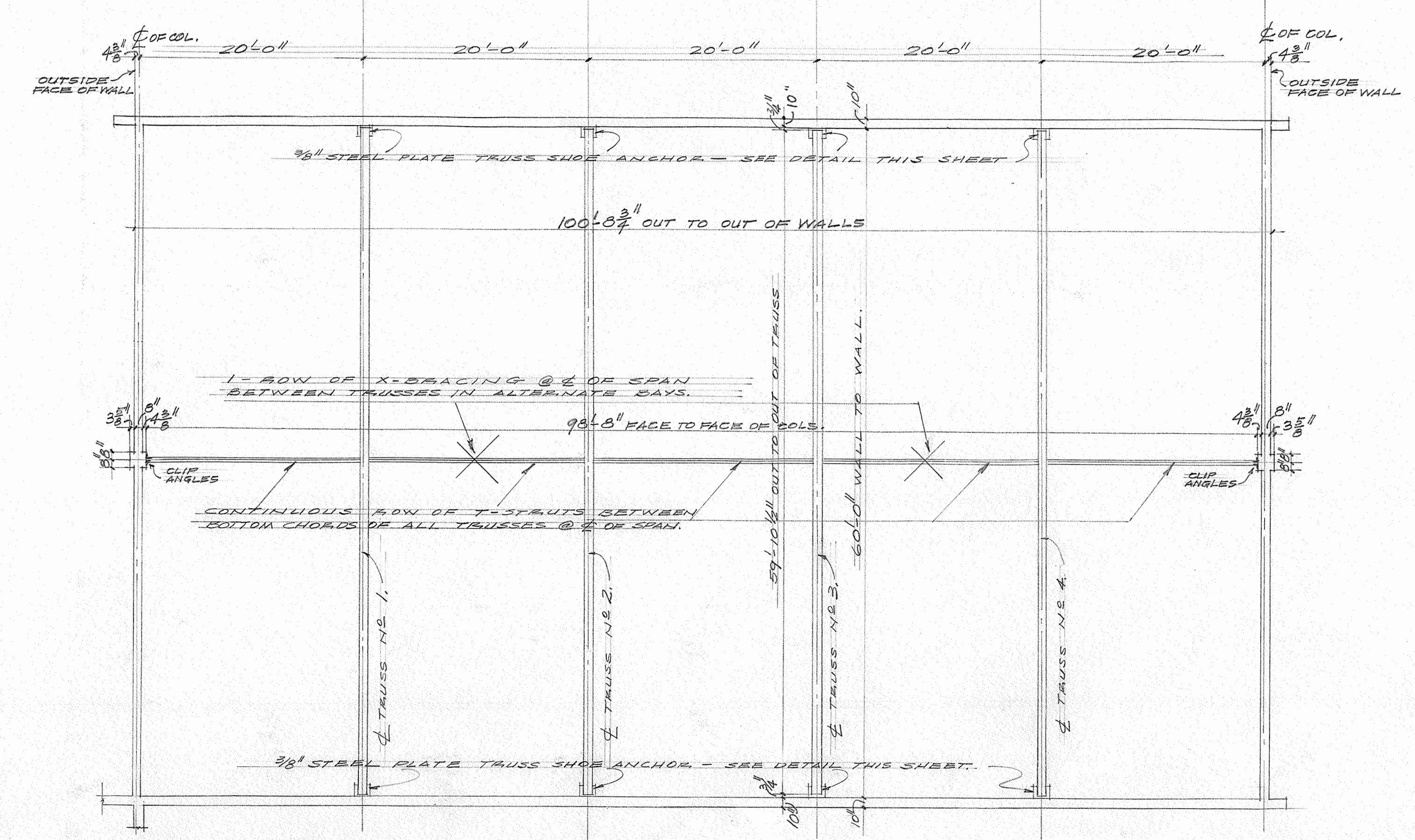
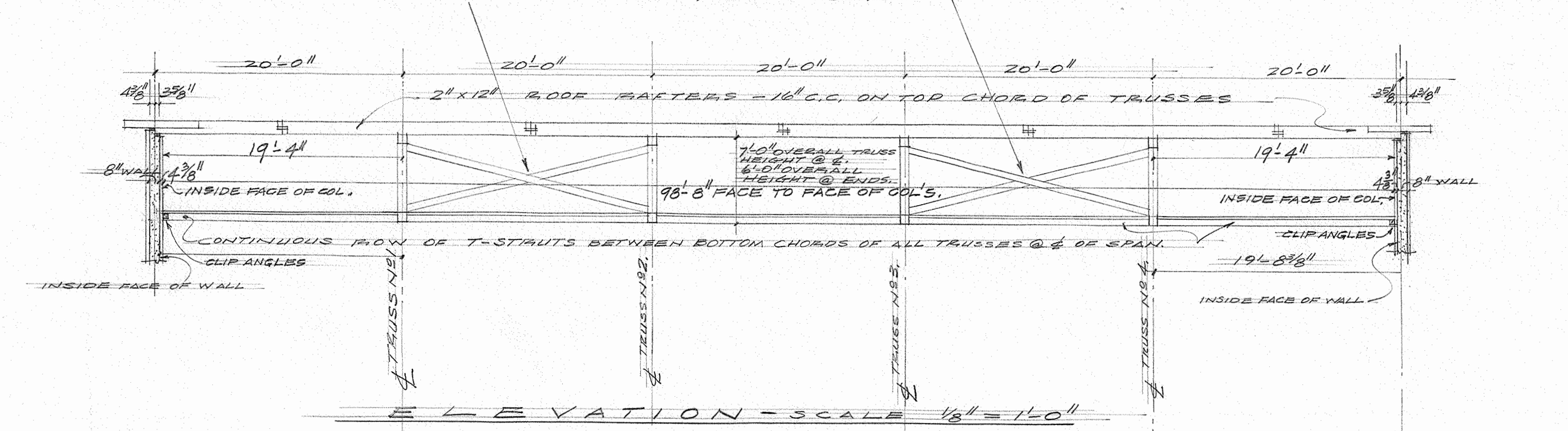
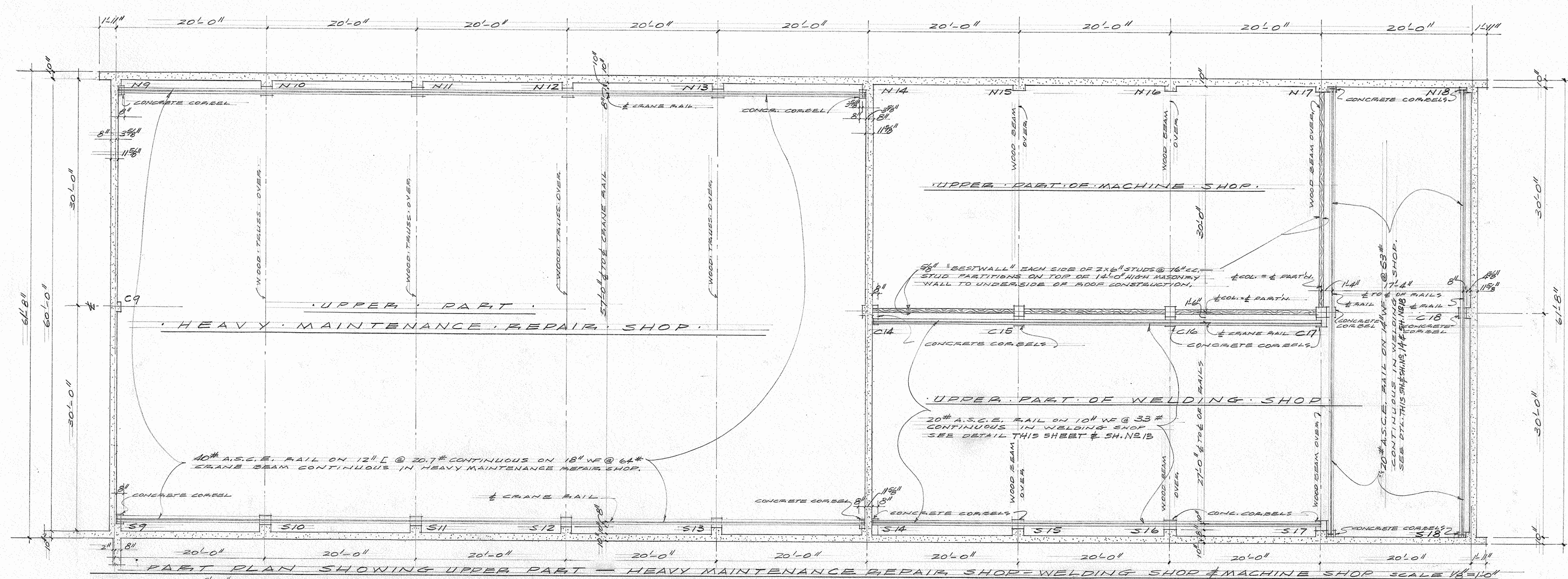
- CONCRETE
- PUMICE BLOCKS
- STUD PARTITIONS
- COMMON BRICK
- PIPE BRICK

APPROVED: *W. Miller*
STATE HIGHWAY ENGINEER

MAINTENANCE SHOP BUILDING
FOR THE STATE OF IDAHO
DEPARTMENT OF HIGHWAYS
137A W. BERRY GLENN, ADA COUNTY, IDAHO

DATE: WAYLAND & FENNELL
067 C.W. WAYLAND C.V. WAYLAND
1953 JACOB T. WOODMANSEER ASSOC.
ARCHITECTS BOISE IDAHO

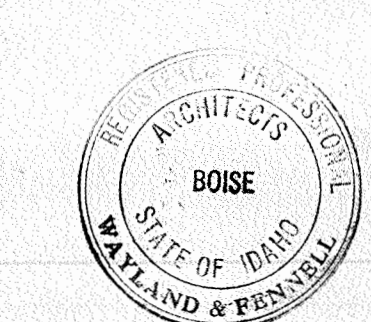
SHEET 6

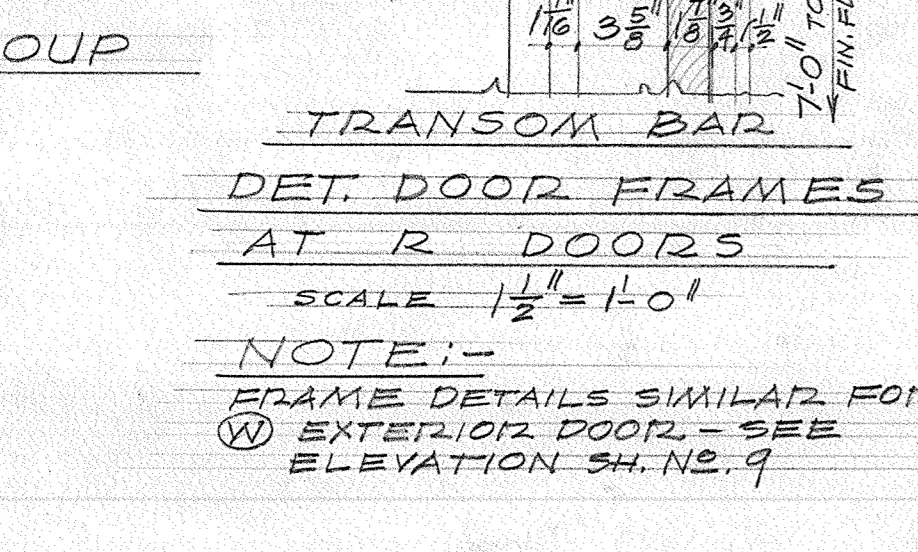
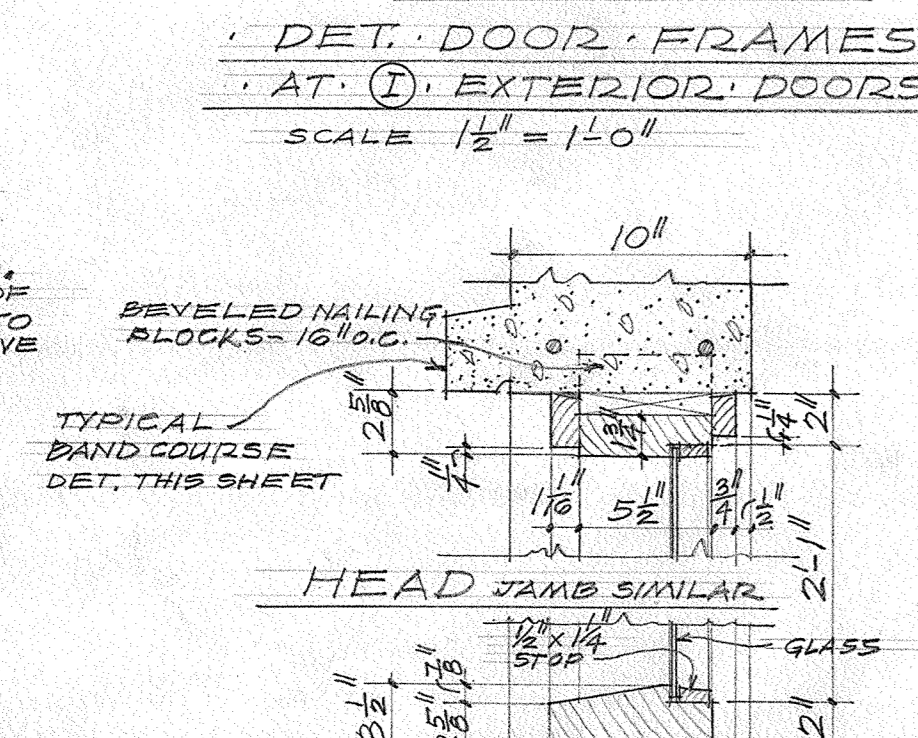
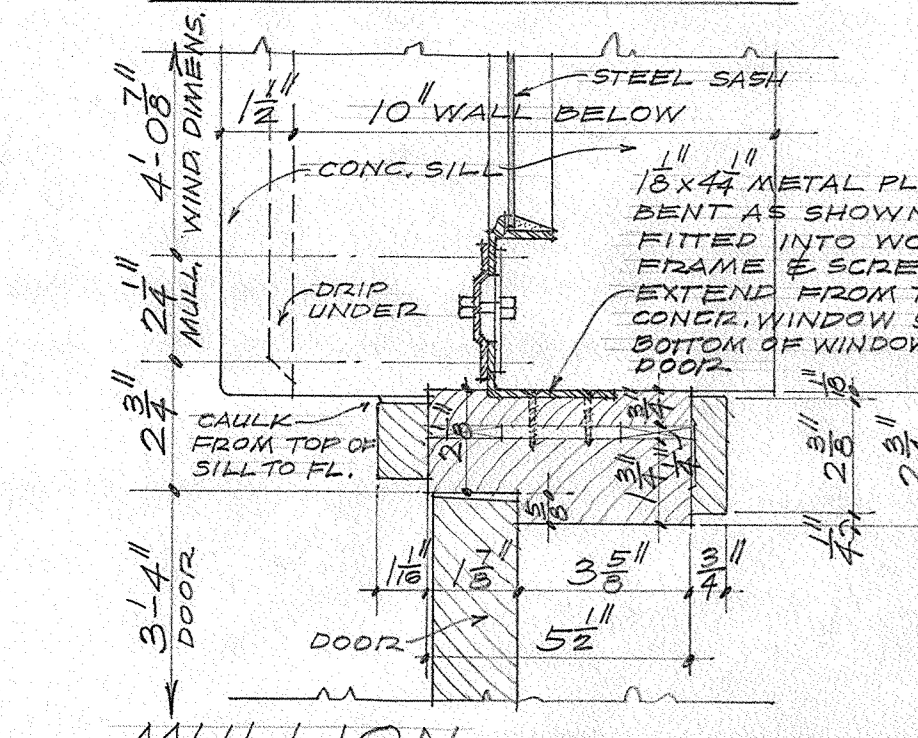
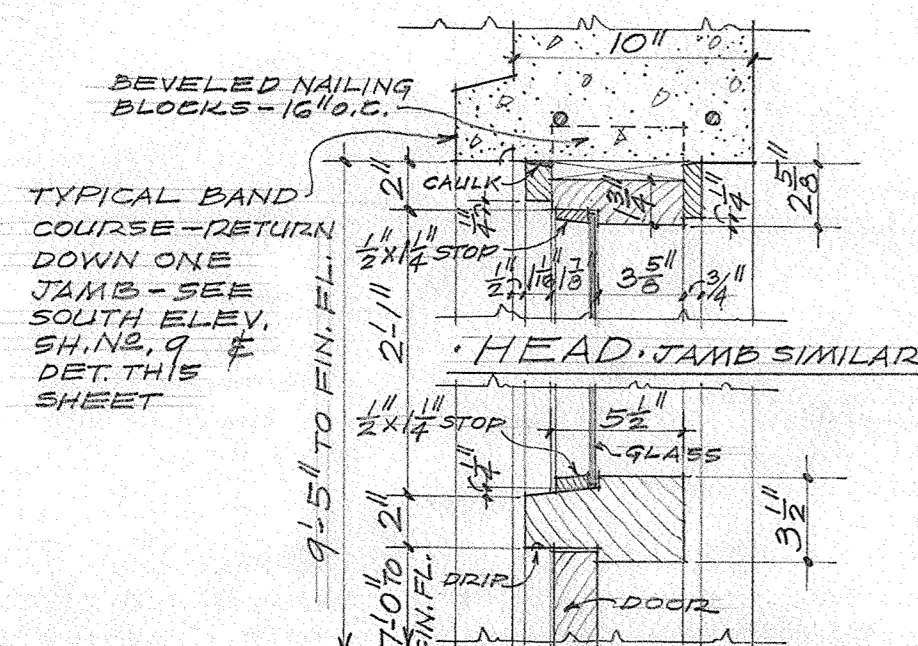
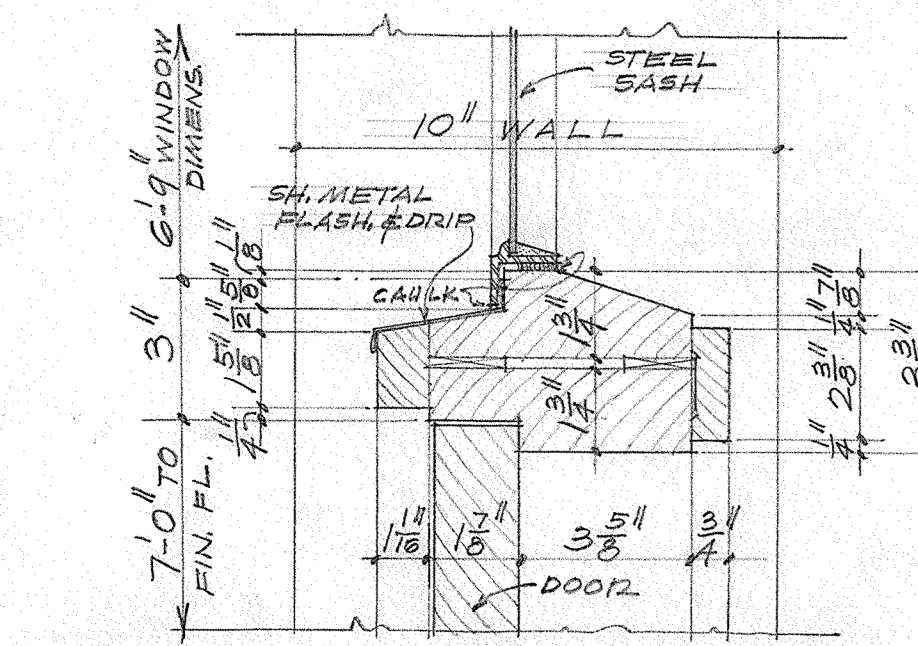
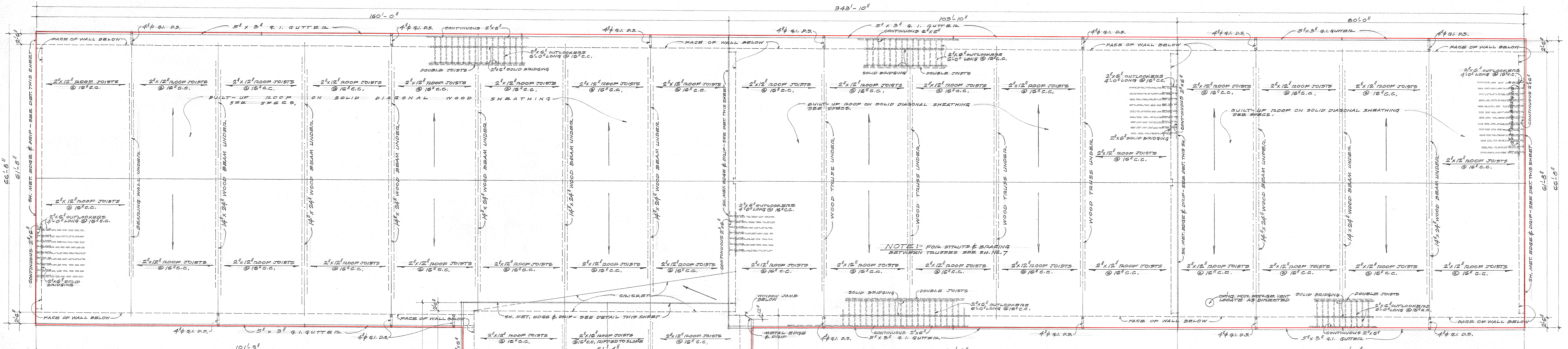


APPROVED: *[Signature]*
STATE HIGHWAY ENGINEER

MAINTENANCE SHOP BUILDING
FOR THE STATE OF IDAHO
DEPARTMENT OF HIGHWAYS
STRAWBERRY GLENN, ADA COUNTY, IDAHO

DATE WAYLAND & FENNEL SHEET
OCT. 1953
S.W. WAYLAND S.W. WAYLAND
JACK T. WOODMANSE, ASSOC.
ARCHITECTS
BOISE IDAHO





NOTE: FRAME DETAILS SIMILAR FOR EXTERIOR DOOR - SEE ELEVATION SH. NO. 9

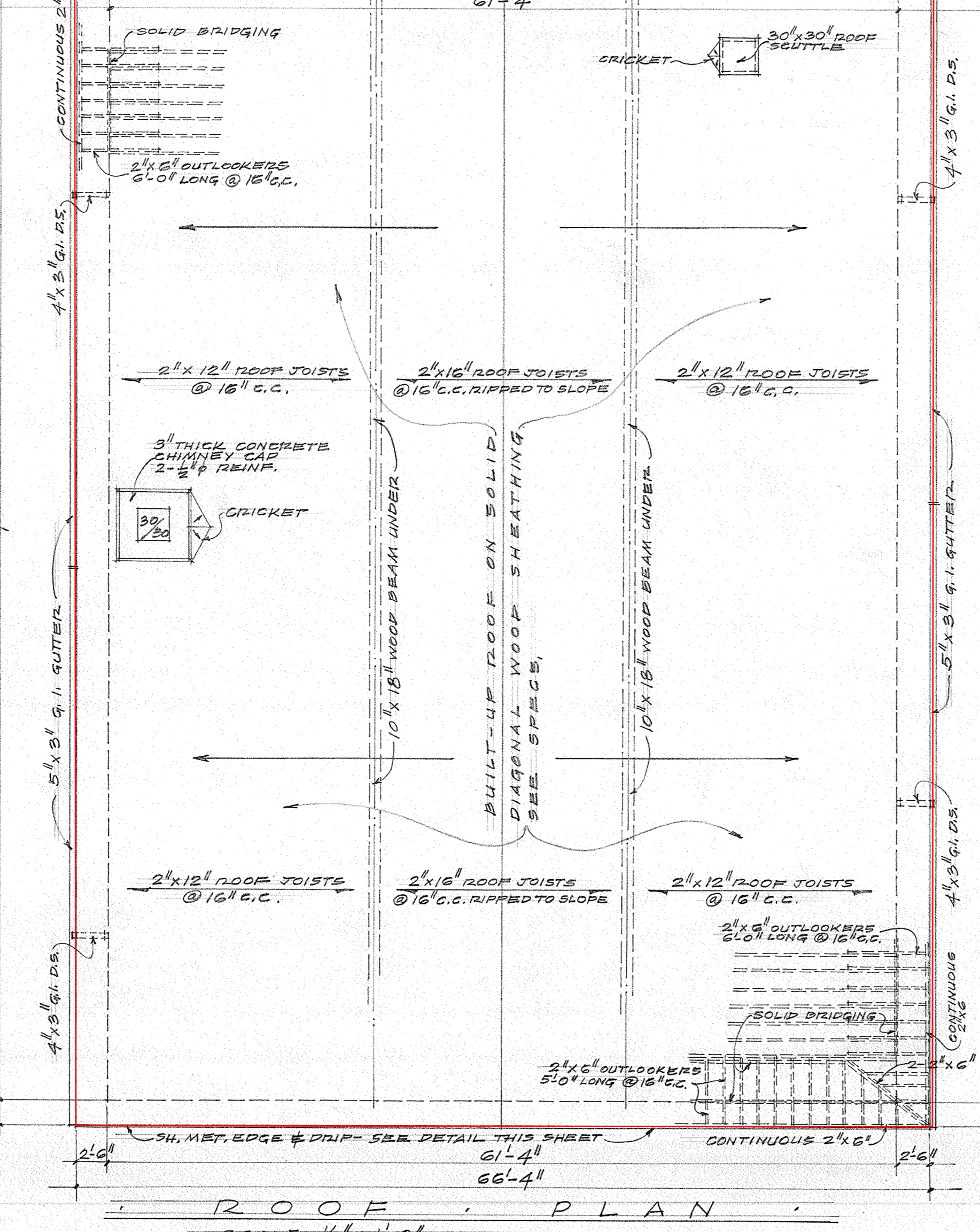
DET. DOOR IN WINDOW GROUP SCALE 3/4" = 1'-0"

TRANSOM BAR DET. DOOR FRAMES AT R DOORS SCALE 1/2" = 1'-0"

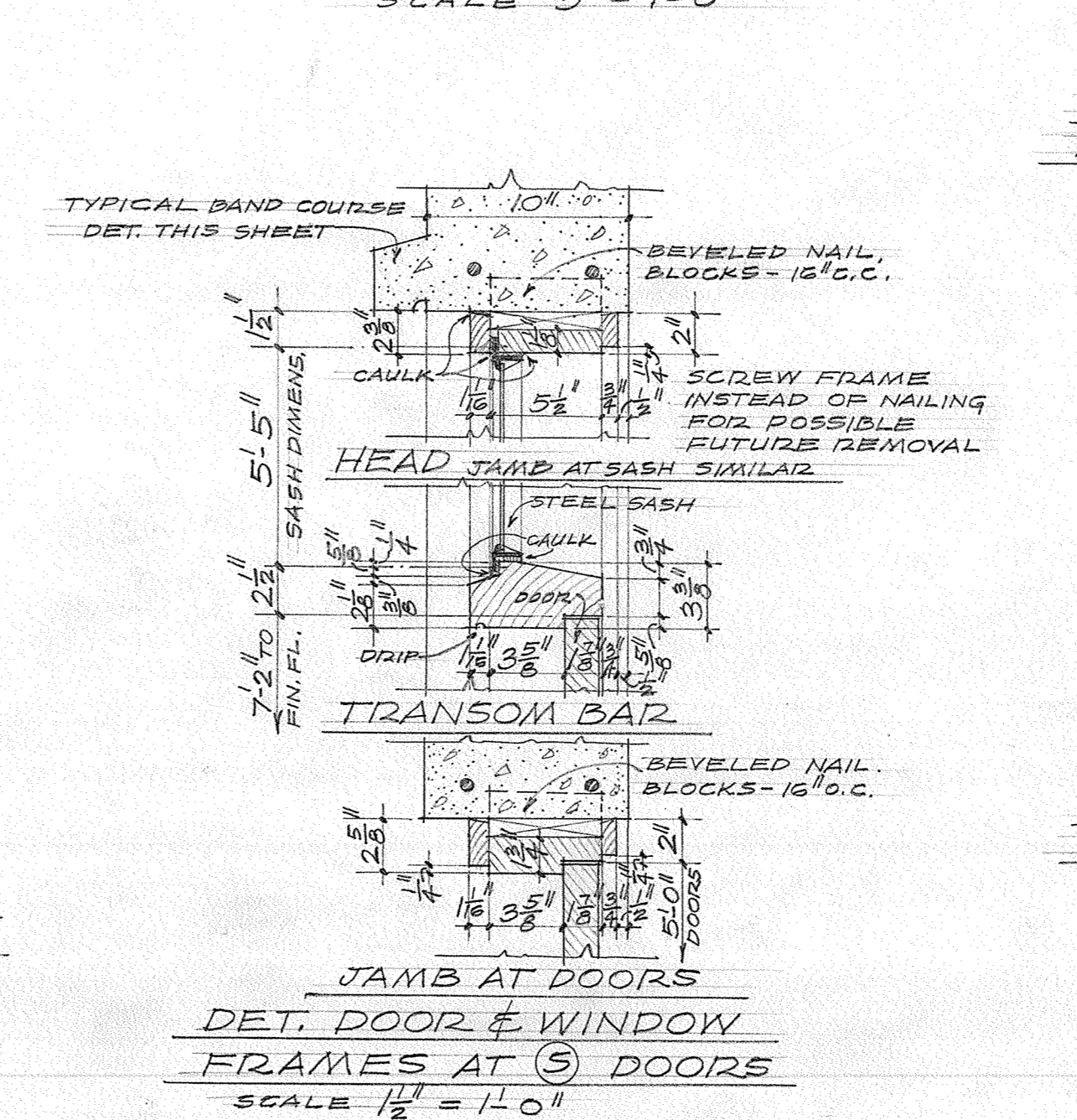
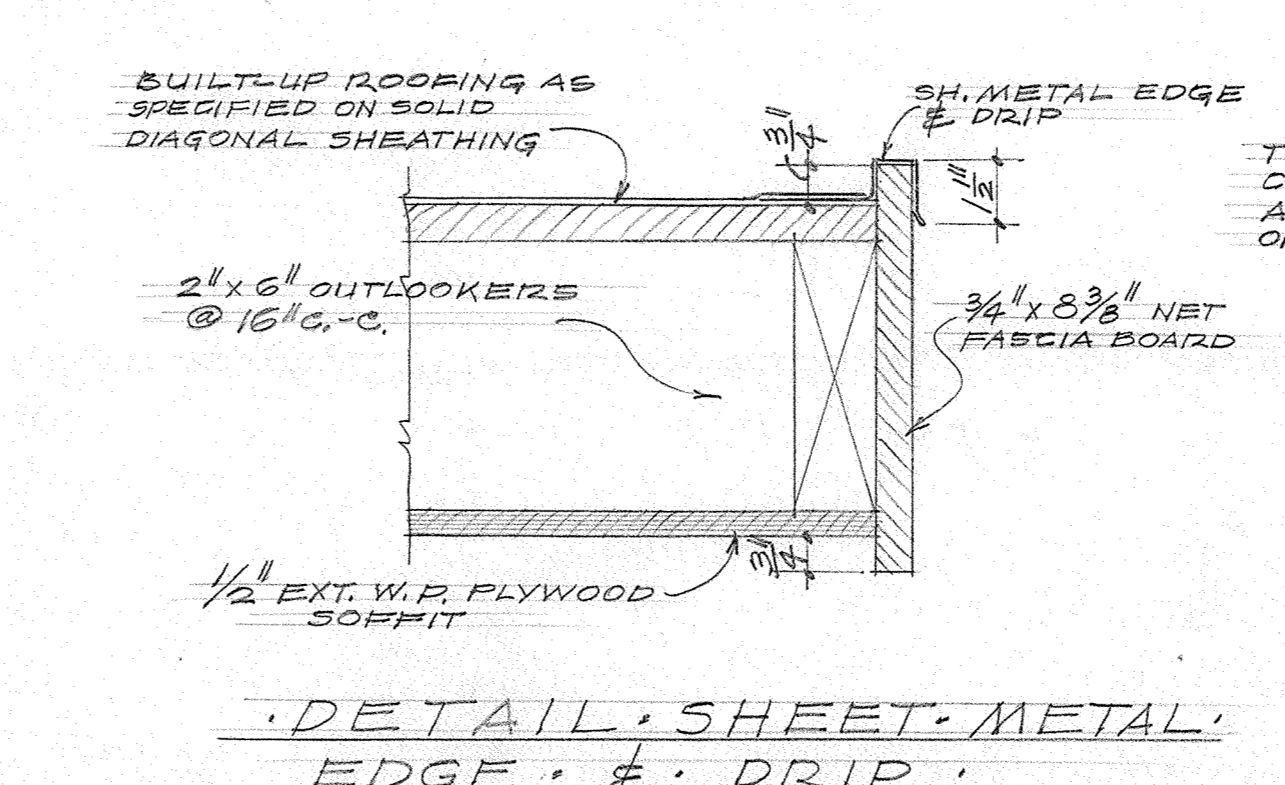
TRANSOM BAR DET. DOOR FRAMES AT R DOORS SCALE 1/2" = 1'-0"

TRANSOM BAR DET. DOOR FRAMES AT R DOORS SCALE 1/2" = 1'-0"

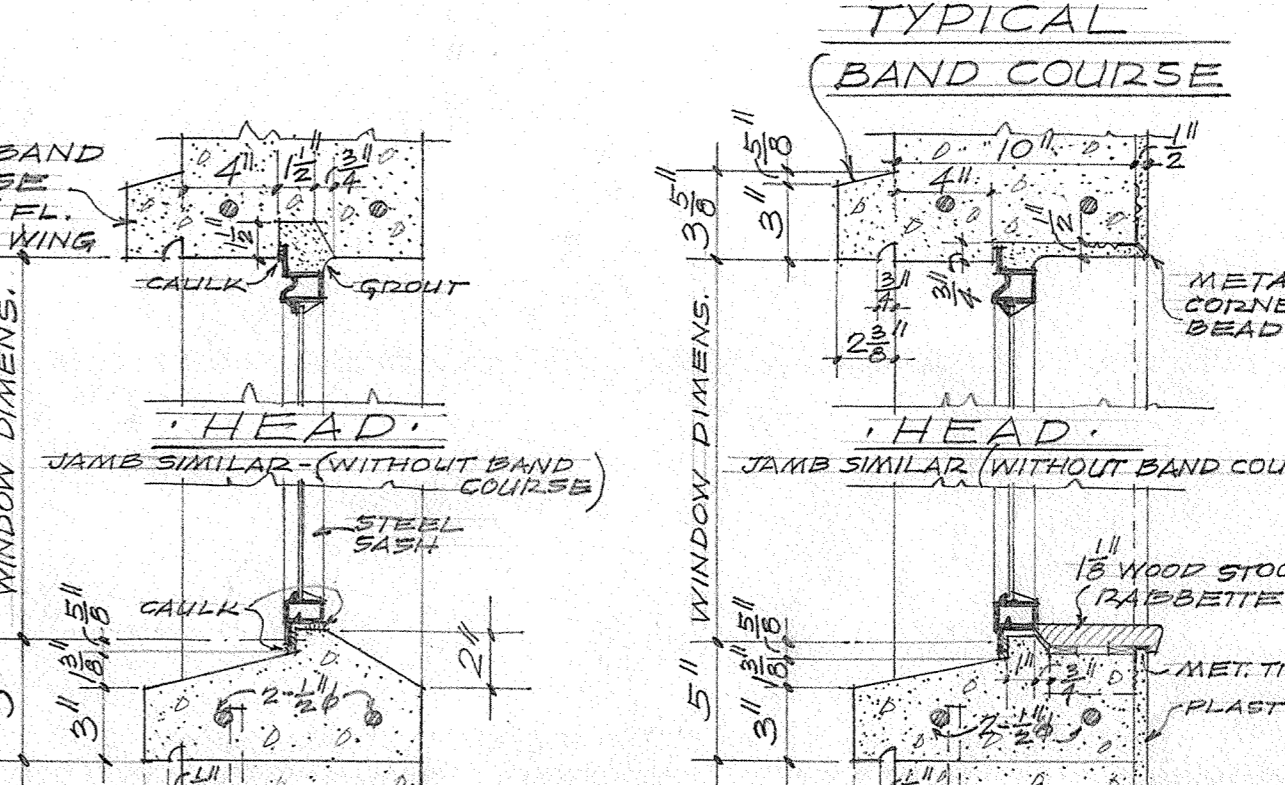
DET. DOOR IN WINDOW GROUP SCALE 3/4" = 1'-0"



ROOF PLAN SCALE 1/8" = 1'-0"



DET. TYPICAL WINDOWS AT UNFINISHED ROOMS SCALE 1 1/2" = 1'-0"



DET. TYPICAL WINDOWS AT FINISHED ROOMS SCALE 1 1/2" = 1'-0"

DET. TYPICAL WINDOWS AT FINISHED ROOMS SCALE 1 1/2" = 1'-0"

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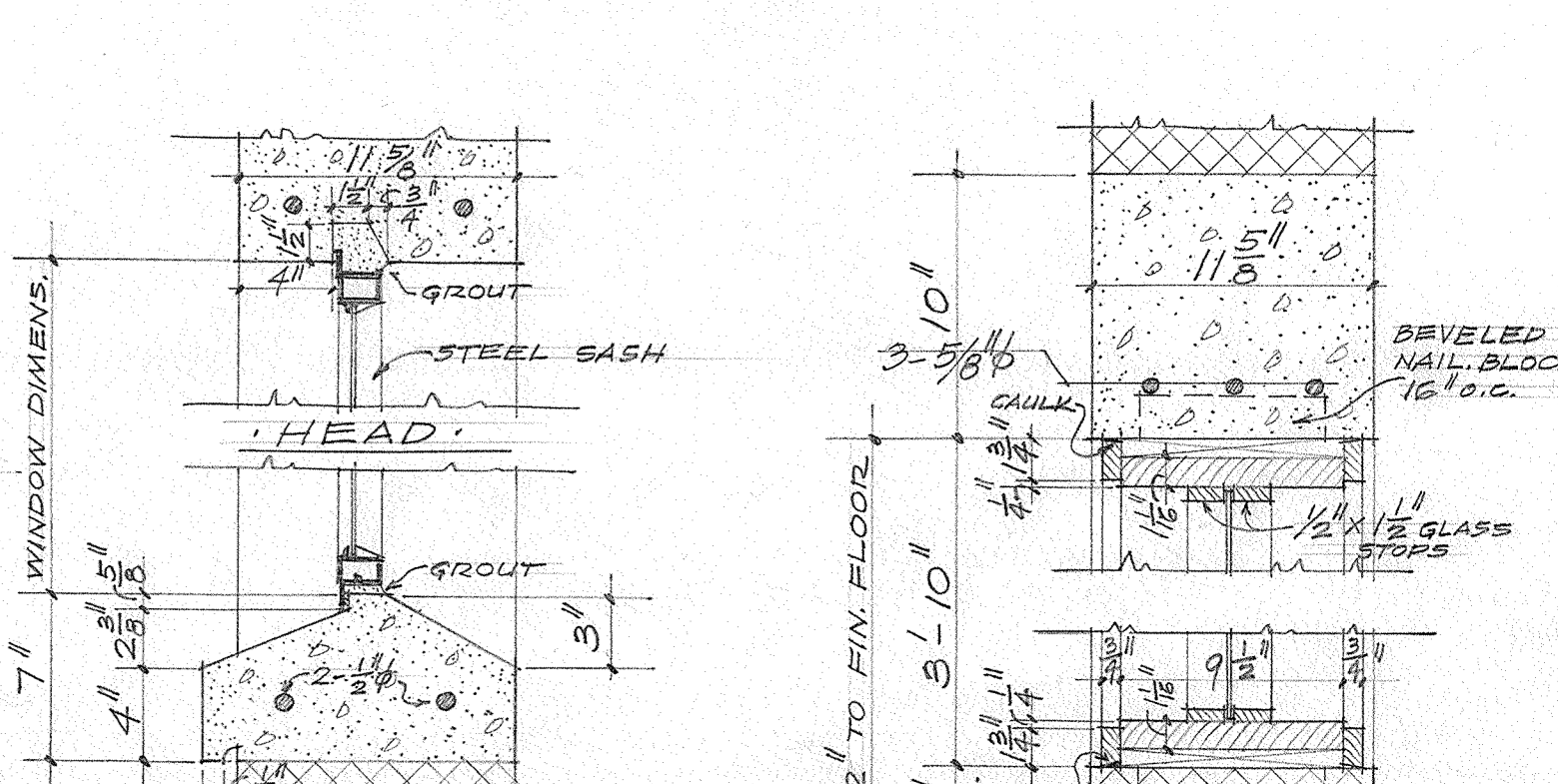
DET. TYPICAL WINDOWS AT FINISHED ROOMS SCALE 1 1/2" = 1'-0"

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DET. WINDOWS IN PUMICE BLOCK WALLS SCALE 1 1/2" = 1'-0"

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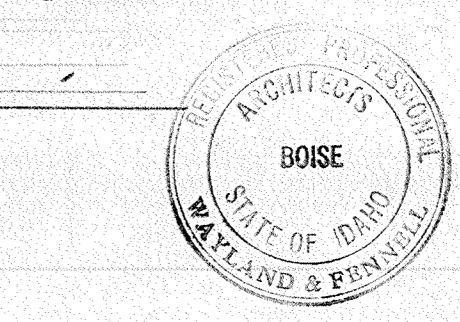
DET. WINDOWS IN PUMICE BLOCK WALLS SCALE 1 1/2" = 1'-0"

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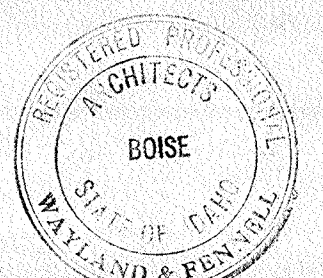
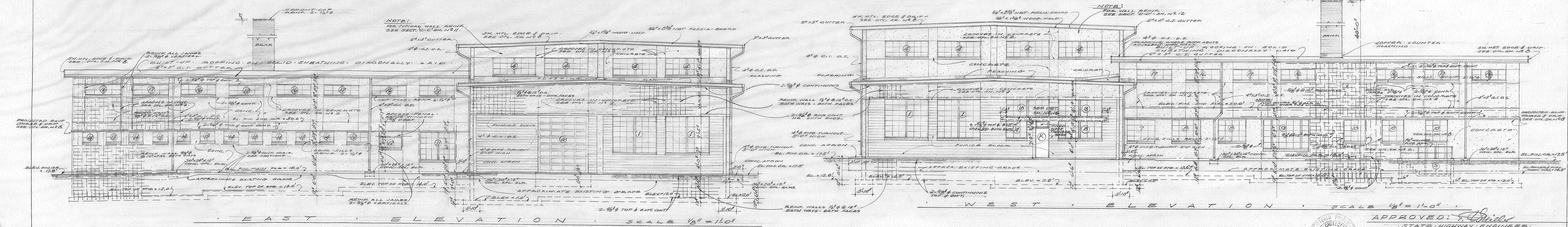
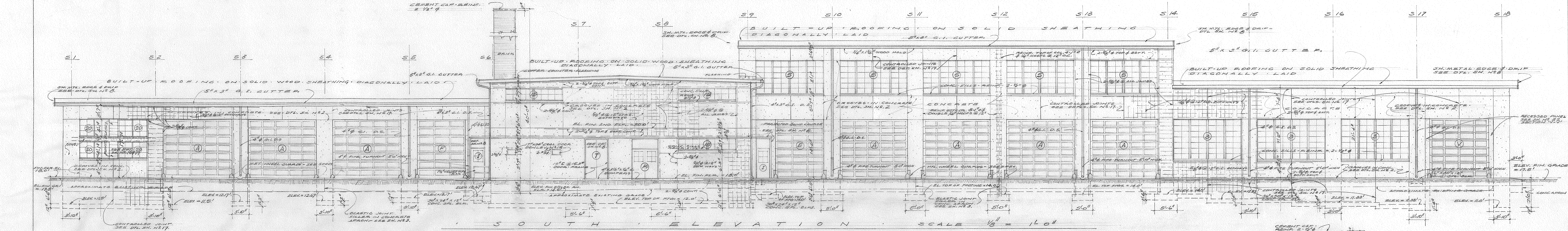
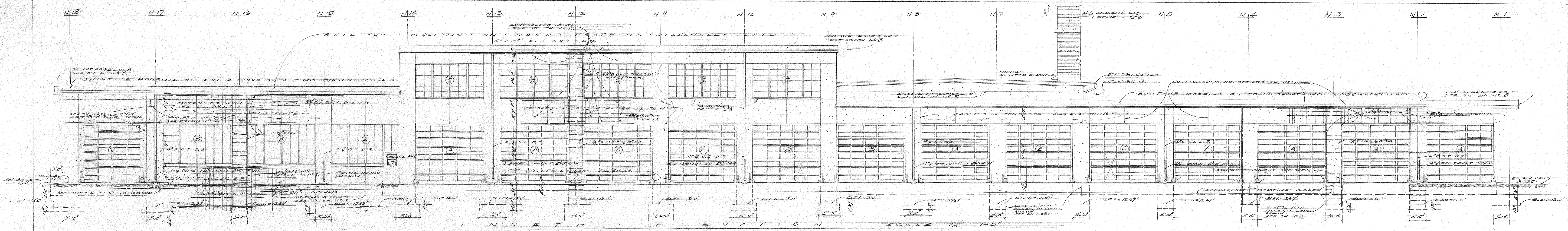
DET. WINDOWS IN PUMICE BLOCK WALLS SCALE 1 1/2" = 1'-0"

DET. WINDOWS IN PUMICE BLOCK WALLS SCALE 1 1/2" = 1'-0"

DET. WINDOWS IN PUMICE BLOCK WALLS SCALE 1 1/2" = 1'-0"



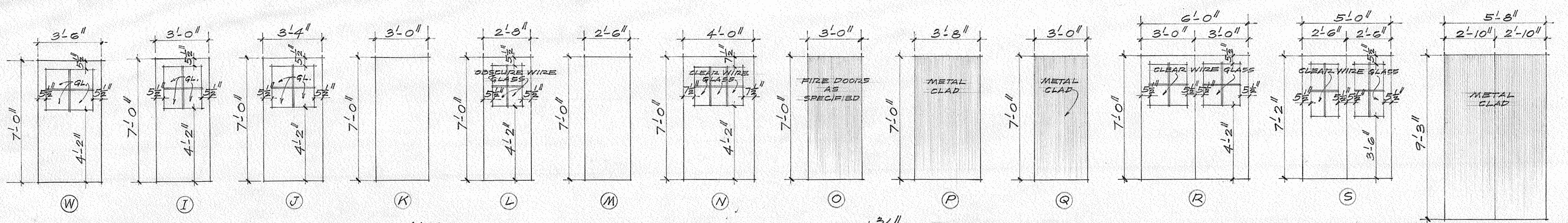
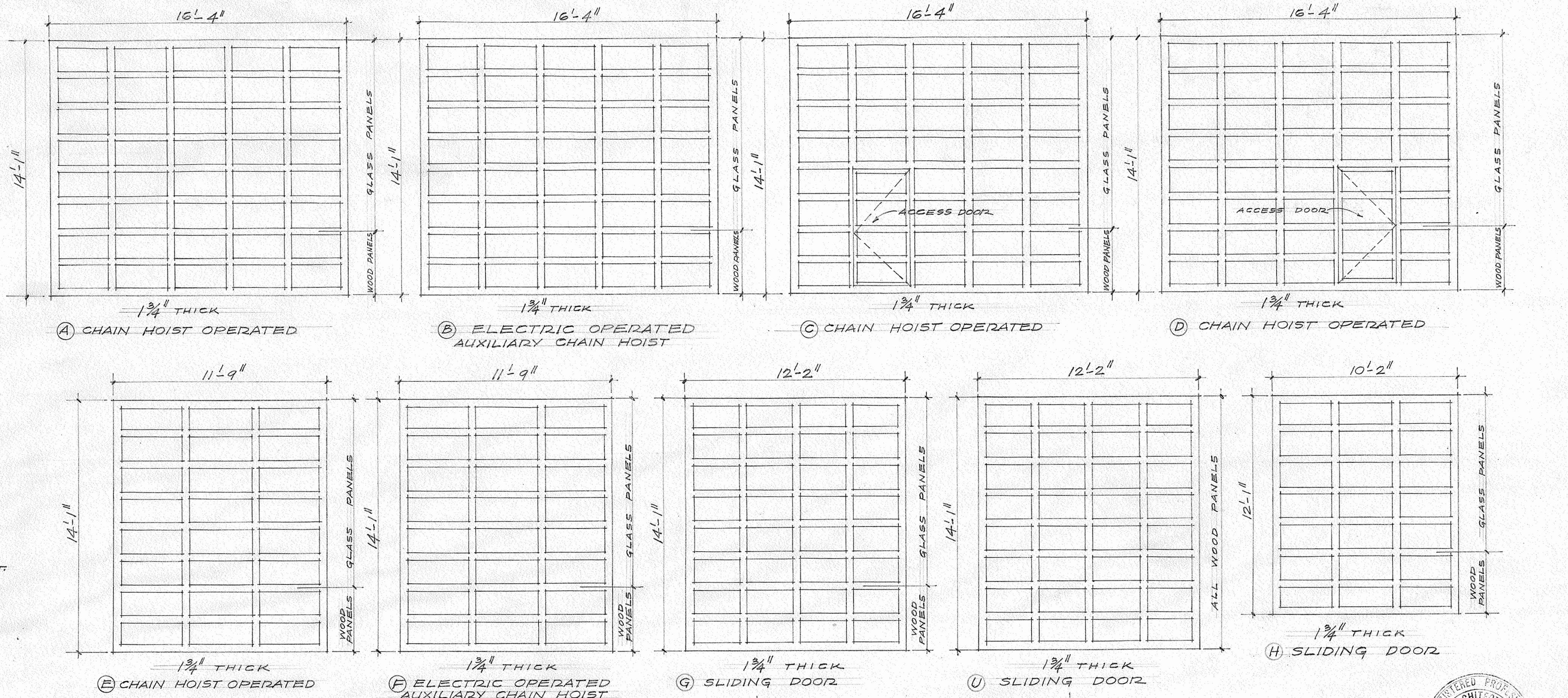
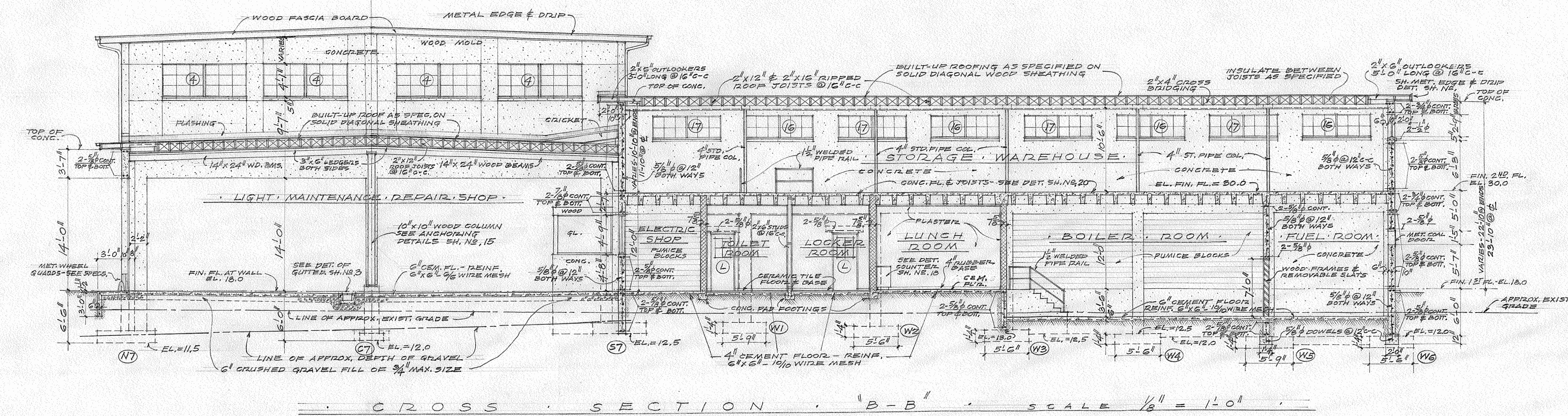
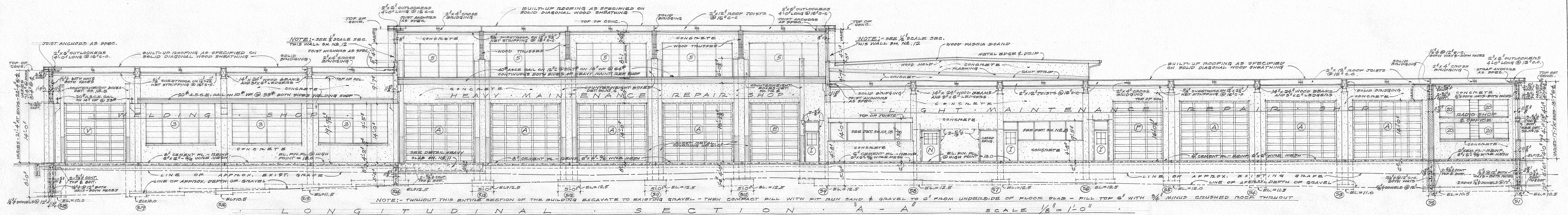
APPROVED: *[Signature]*
STATE HIGHWAY ENGINEER
MAINTENANCE SHOP BUILDING
FOR THE STATE OF IDAHO
DEPARTMENT OF HIGHWAYS
STRAWBERRY GLENN, ADA COUNTY, IDAHO
DATE WAYLAND & FENNELLS SHEET
DRAWN BY WAYLAND & FENNELLS
JACK T. WOODMAN, ARCHITECTS
BOISE, IDAHO



APPROVED: *[Signature]*
STATE HIGHWAY ENGINEER

MAINTENANCE SHOP BUILDING
FOR THE STATE OF IDAHO
DEPARTMENT OF HIGHWAYS
STRAWBERRY GLENN, ADA COUNTY, IDAHO
DATE WAYLAND & FENNELL
OCT. 1955
1955
WAYLAND & FENNELL
JACOB T. WOODMANSE, ASSOC.
ARCHITECTS
BOISE, IDAHO

NOTE!
SEE DETAIL OF TYPICAL WALL STEEL
TYPICAL CORNER STEEL & TYPICAL CONTROLLED
JOINT STEEL SHEET NO. 17.

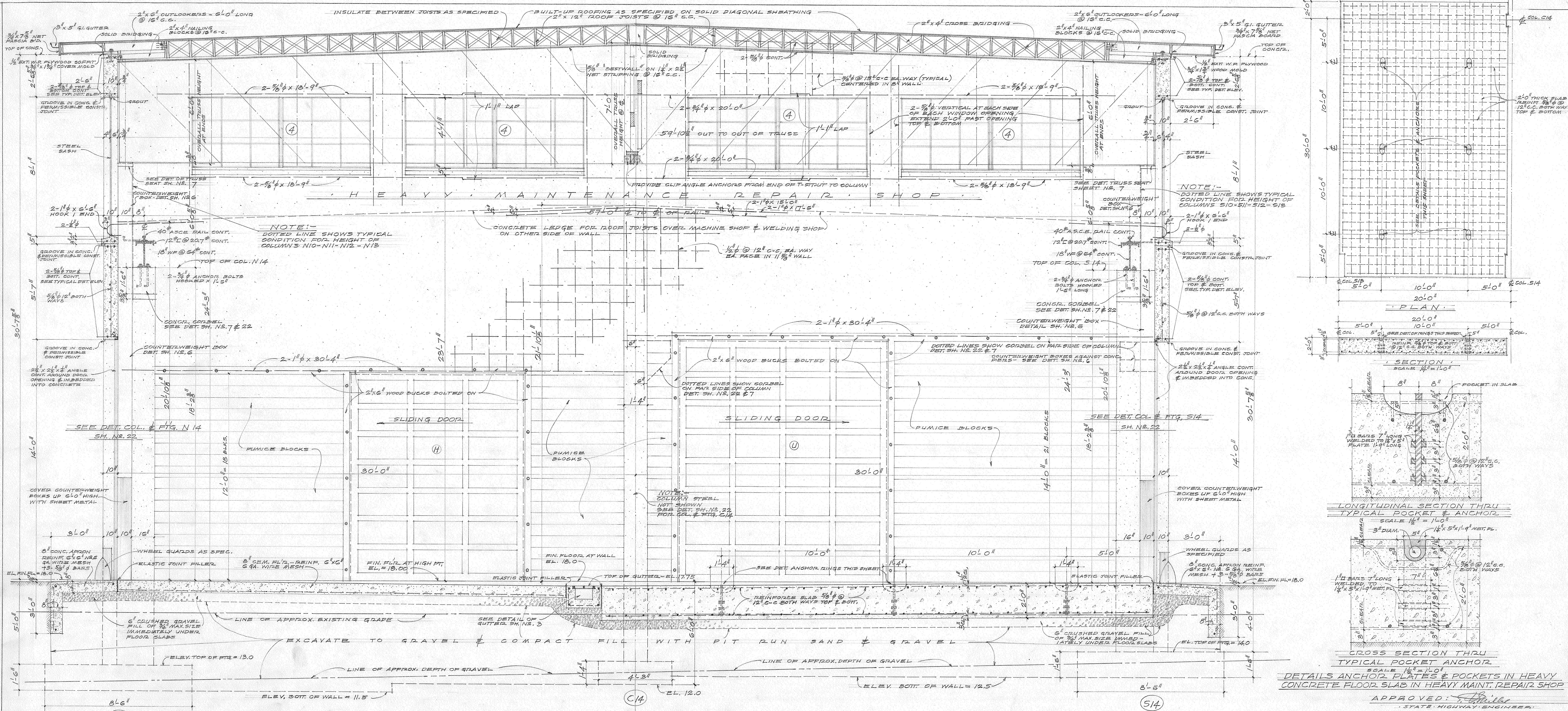


APPROVED: *[Signature]*
STATE HIGHWAY ENGINEER

MAINTENANCE SHOP BUILDING
FOR THE STATE OF IDAHO
DEPARTMENT OF HIGHWAYS
STRAWBERRY CLENN, ADA COUNTY, IDAHO

FATE WAYLAND & FENNEL SHEET
DCT. C.W. WAYLAND C.W. WAYLAND
1953 JACK T. WOODMANSEE ASSOCIATE
ARCHITECTS BOISE IDAHO

10



NOTE:-
DOTTED LINE SHOWS TYPICAL
CONDITION FOR HEIGHT OF
COLUMNS N10-N11-N12-N13

NOTE:-
DOTTED LINES SHOW CORBEL ON
FAIR SIDE OF COLUMN
DET. SH. NO. 22 & 7

NOTE:-
DOTTED LINE SHOWS TYPICAL
CONDITION FOR HEIGHT OF
COLUMNS S10-S11-S12-S13

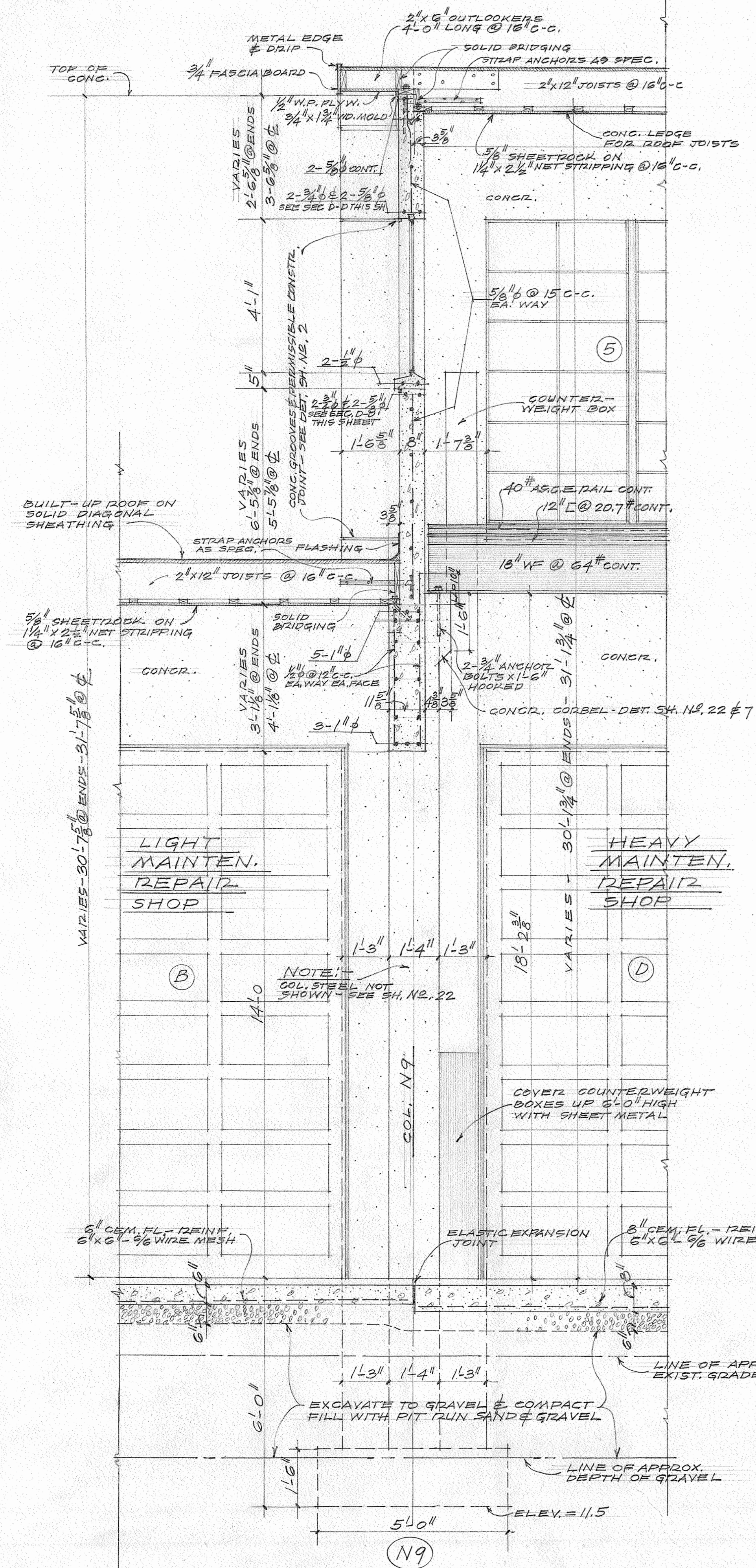
NOTE:-
DOTTED LINES SHOW CORBEL ON
FAIR SIDE OF COLUMN
DET. SH. NO. 22 & 7

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DOTTED LINES SHOW CORBEL ON
FAIR SIDE OF COLUMN
DET. SH. NO. 22 & 7

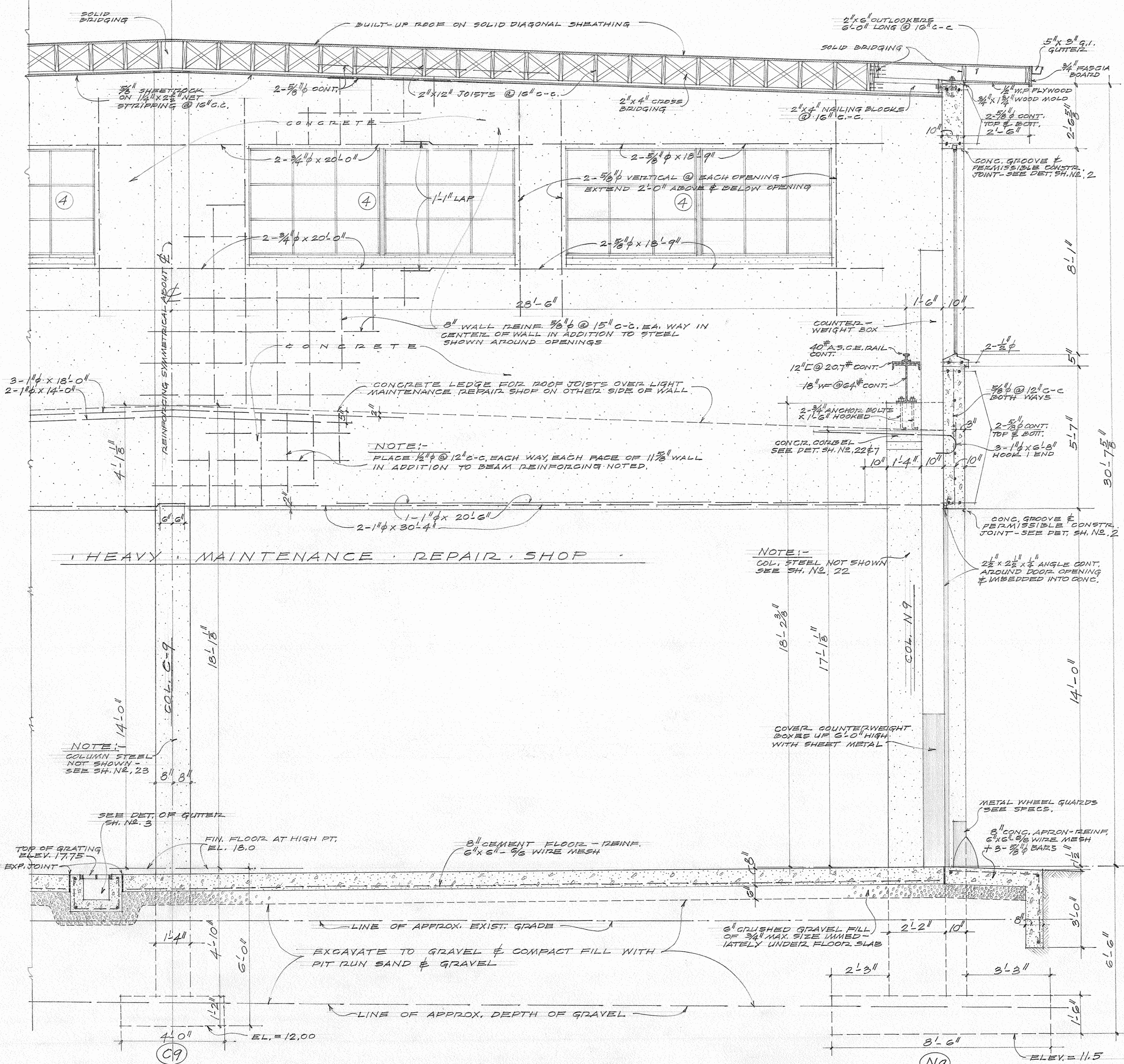
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DOTTED LINES SHOW CORBEL ON
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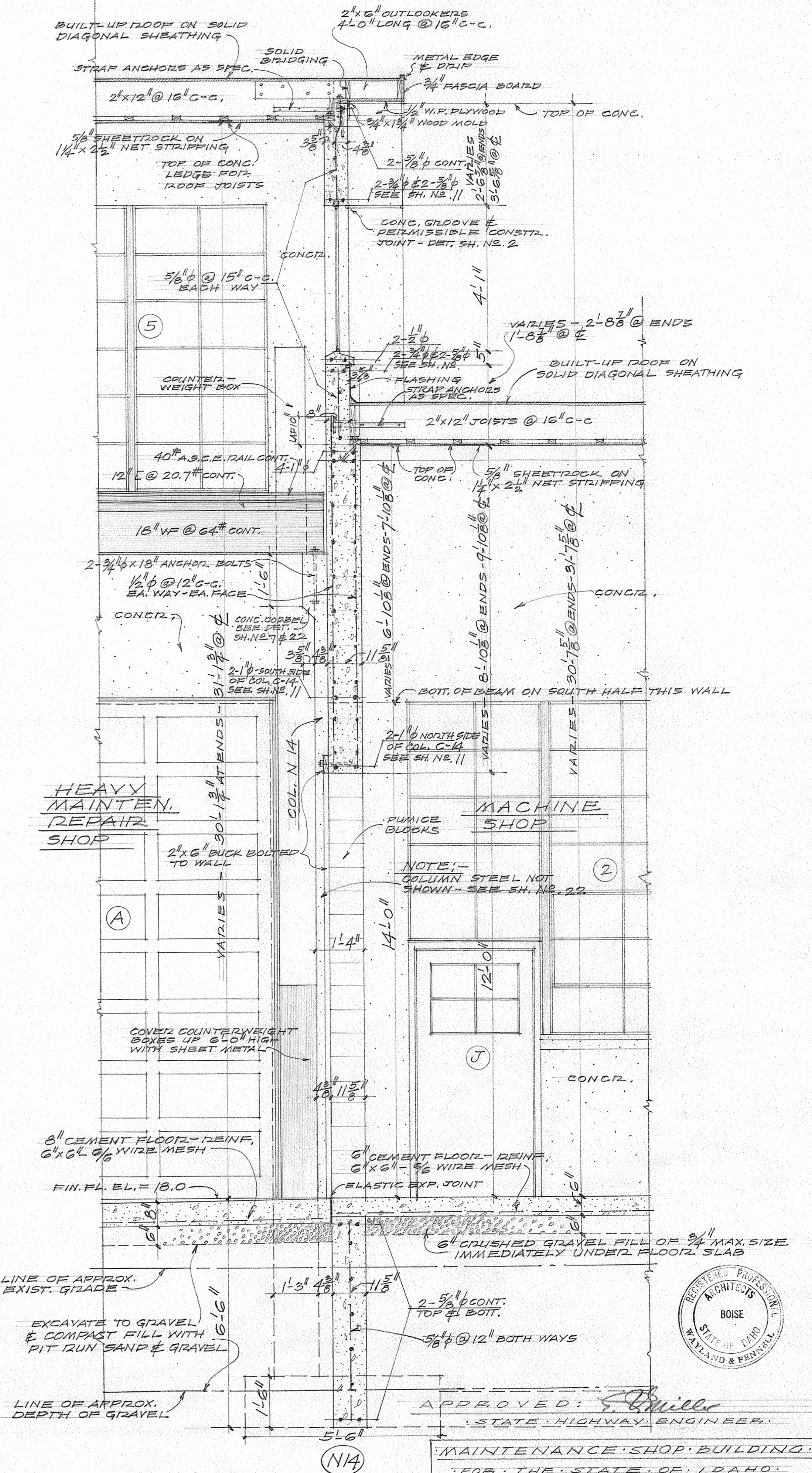
NOTE:-
DOTTED LINES SHOW CORBEL ON
FAIR SIDE OF COLUMN
DET. SH. NO. 22 & 7



CROSS SECTION "E-E"
SCALE 1/2" = 1'-0"



CROSS SECTION "D-D"
SCALE 1/2" = 1'-0"

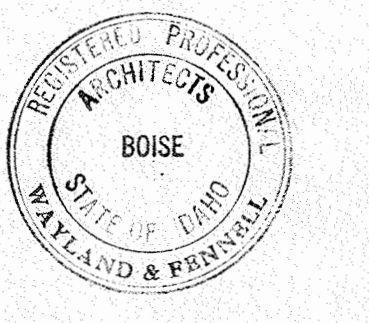


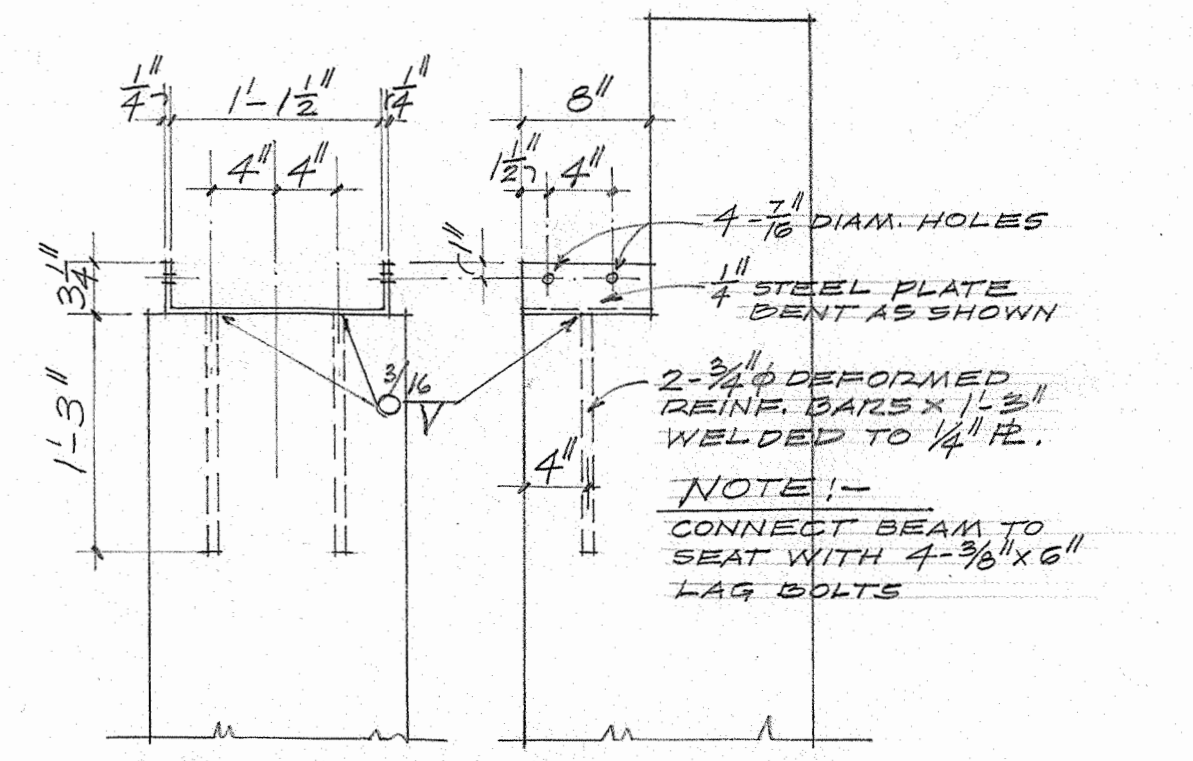
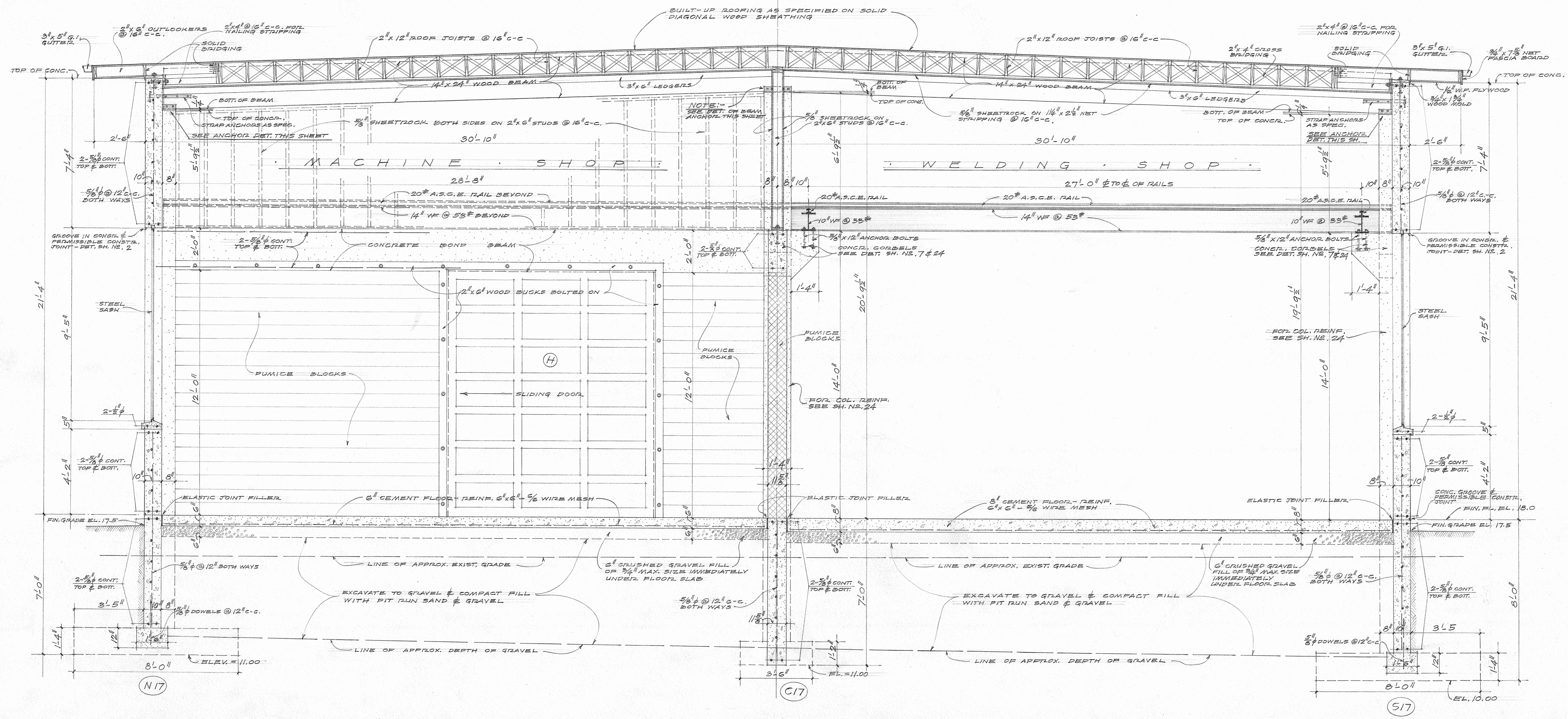
CROSS SEC. "F-F"
SCALE 1/2" = 1'-0"

APPROVED: *[Signature]*
STATE HIGHWAY ENGINEER

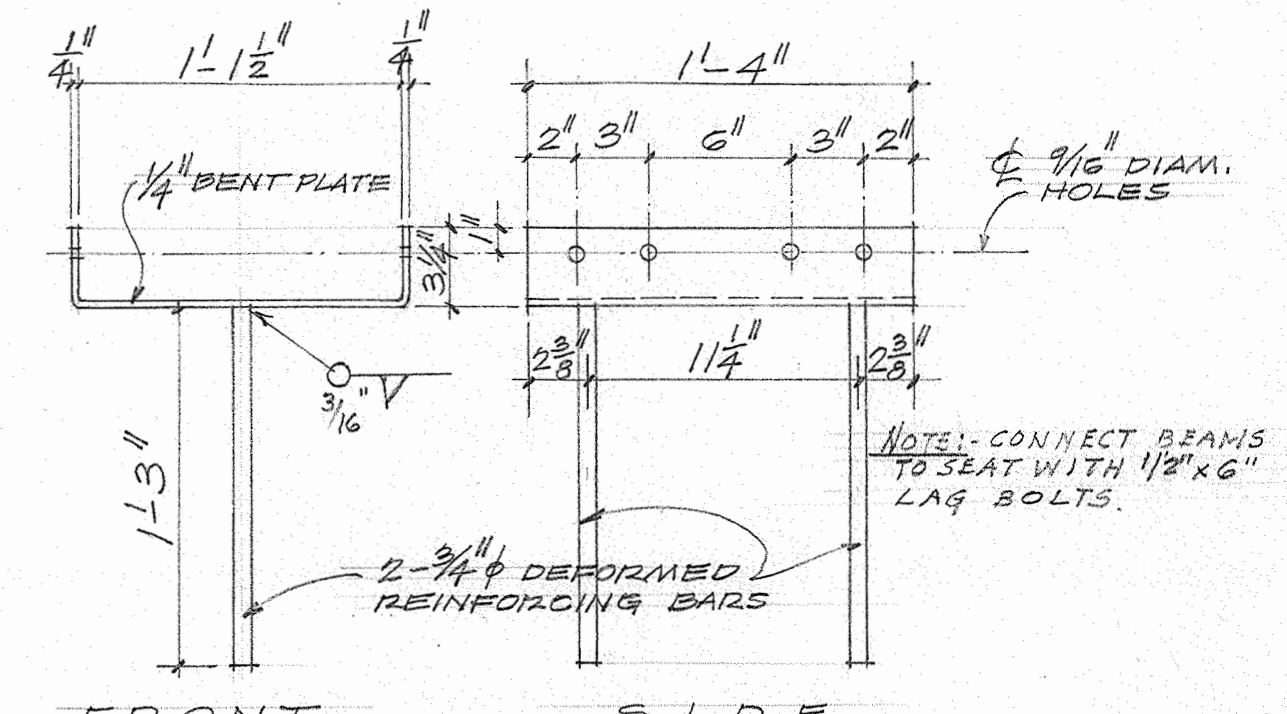
MAINTENANCE SHOP BUILDING
FOR THE STATE OF IDAHO
DEPARTMENT OF HIGHWAYS
STRAWBERRY GLEN, ADA COUNTY, IDAHO

DATE: WAYLAND & FENNELL
OCT. 1953 JACK T. WOODMANSEE ASSOC.
ARCHITECTS BOISE IDAHO



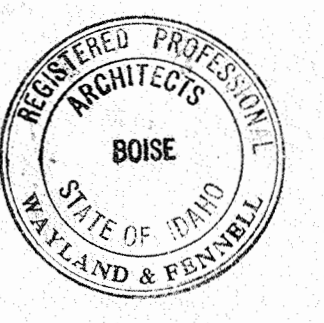


FRONT SIDE
ANCHOR DETAIL FOR
14x24 WOOD BEAMS AT
EXTERIOR COLUMNS
SCALE 1" = 1'-0"



FRONT SIDE
DETAILS OF BEAM SEAT
FOR COLS. C15-C16-C17
SCALE 1/2" = 1'-0"

CROSS SECTION H-H
SCALE 1/2" = 1'-0"

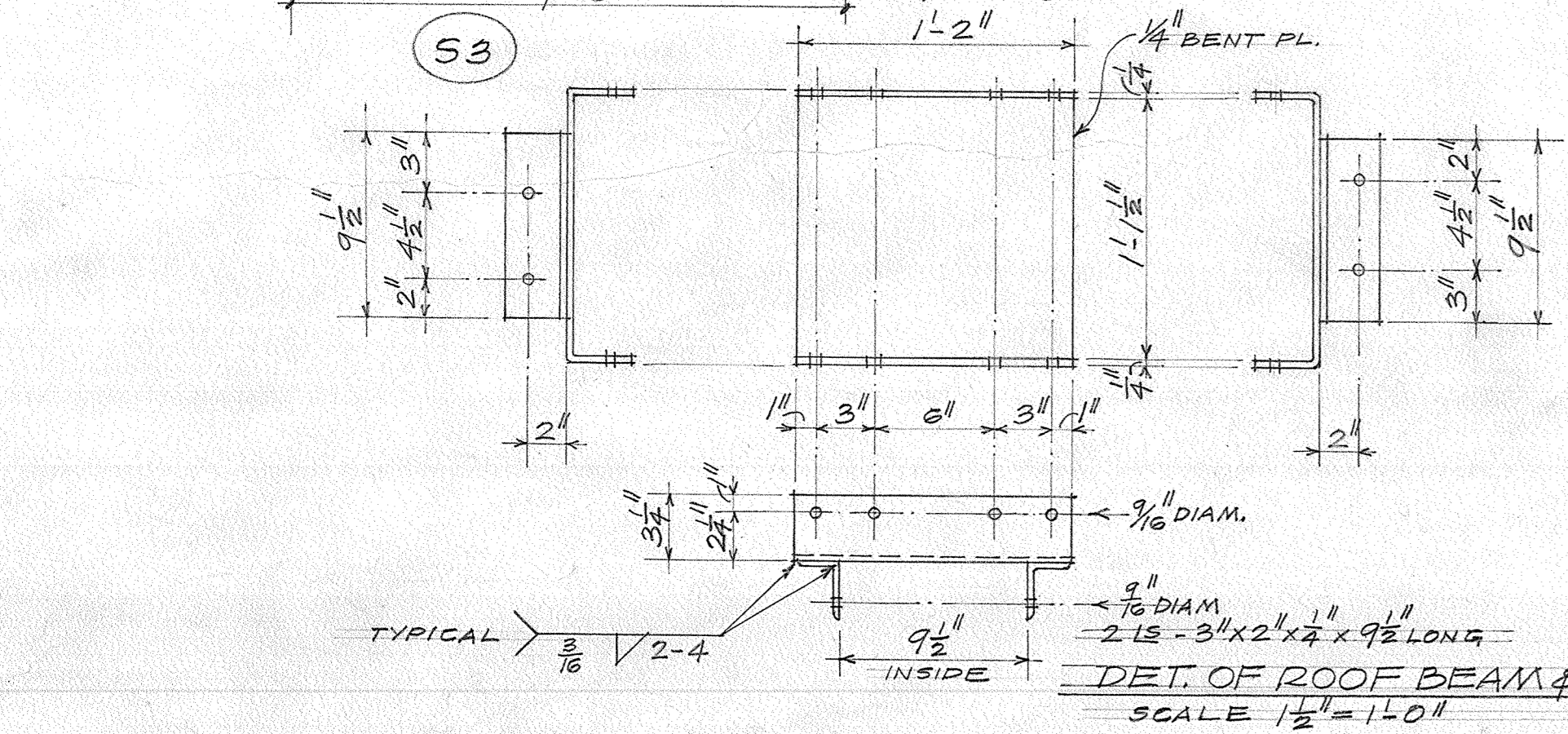
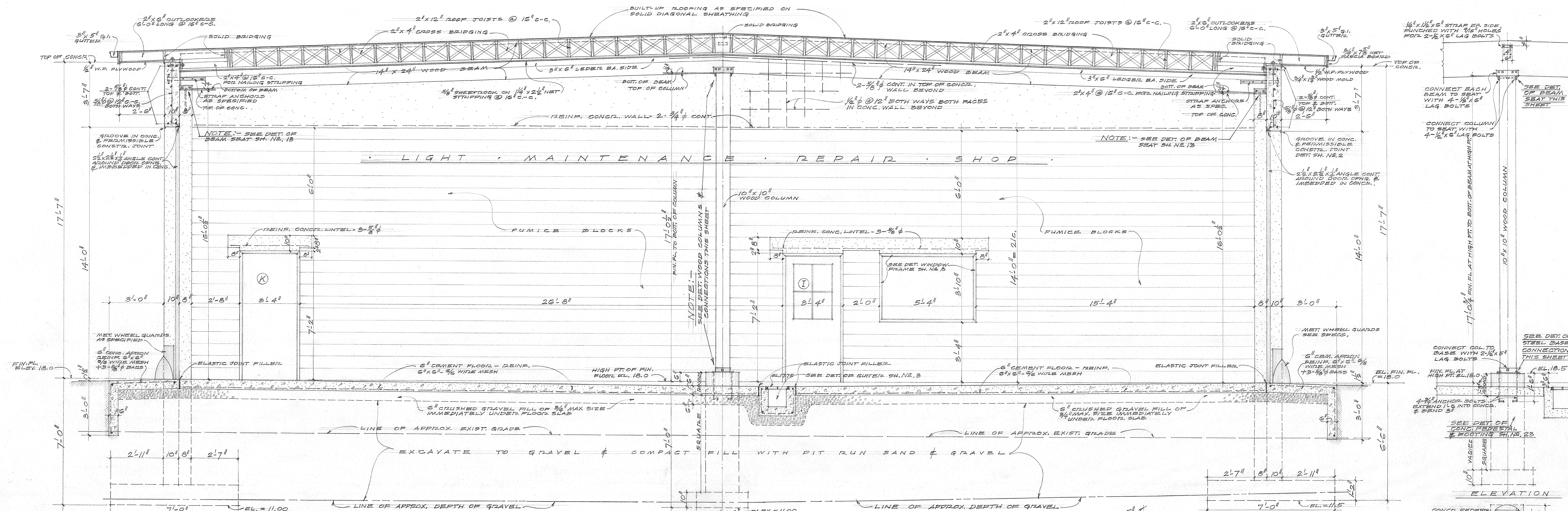


APPROVED: *J. Woodmansee*
STATE HIGHWAY ENGINEER

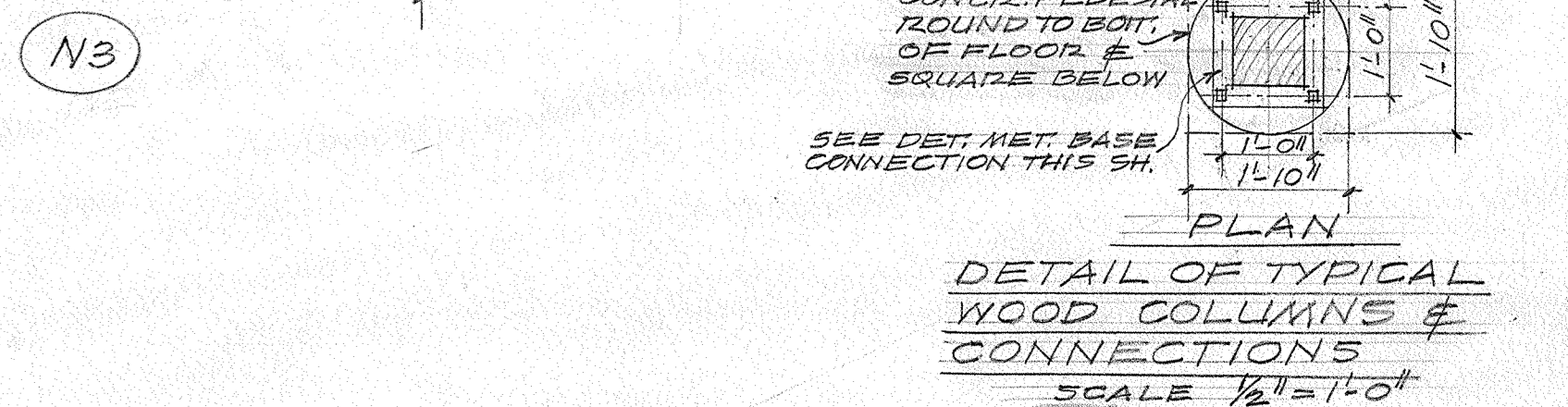
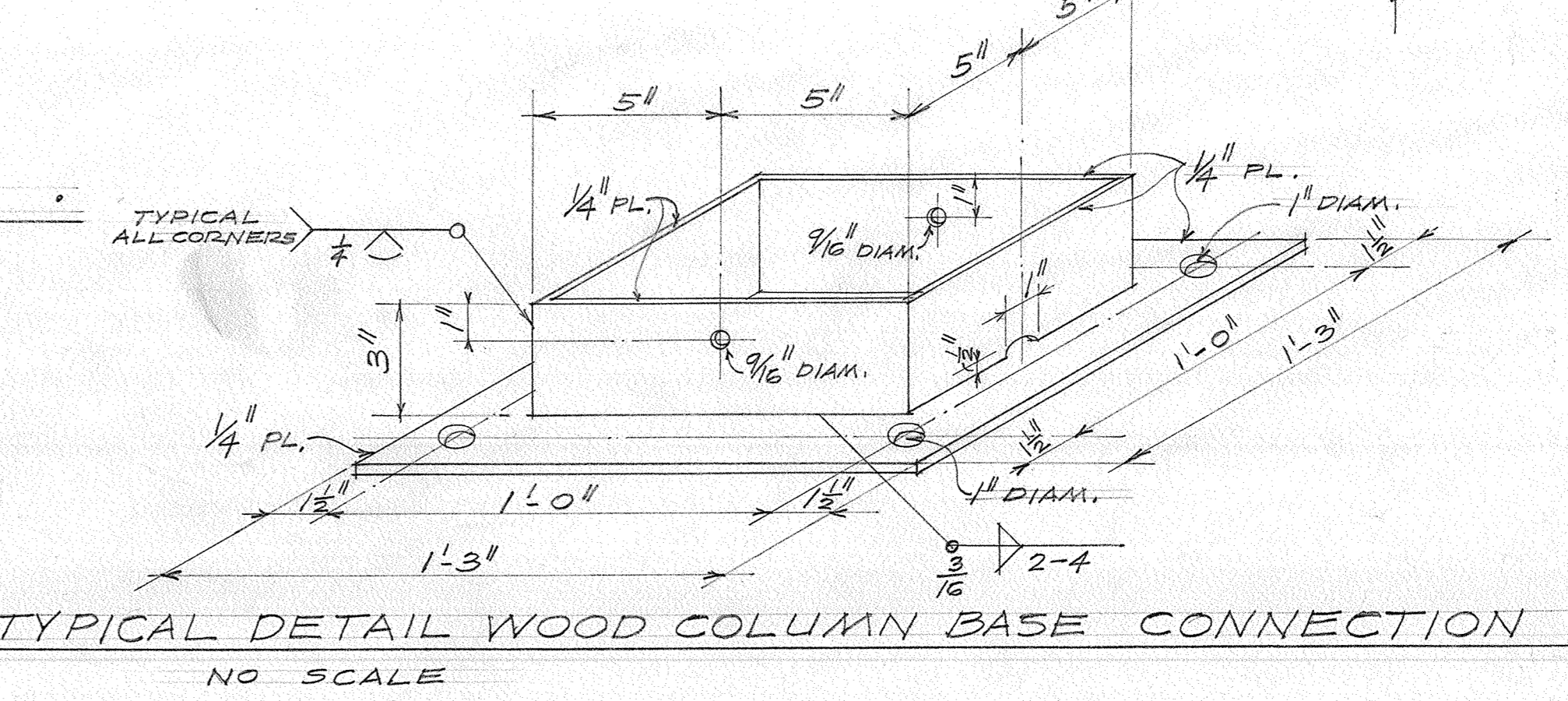
MAINTENANCE SHOP BUILDING
FOR THE STATE OF IDAHO
DEPARTMENT OF HIGHWAYS
STRAWBERRY GLENN, ADA COUNTY, IDAHO

DATE: WAYLAND & FENNELL
DCT: G.W. WAYLAND
1963 JACOB T. WOODMANSEE ASSOCIATES ARCHITECTS BOISE IDAHO

SHEET 13



SECTION "K-K"
SCALE 1/2" = 1'-0"



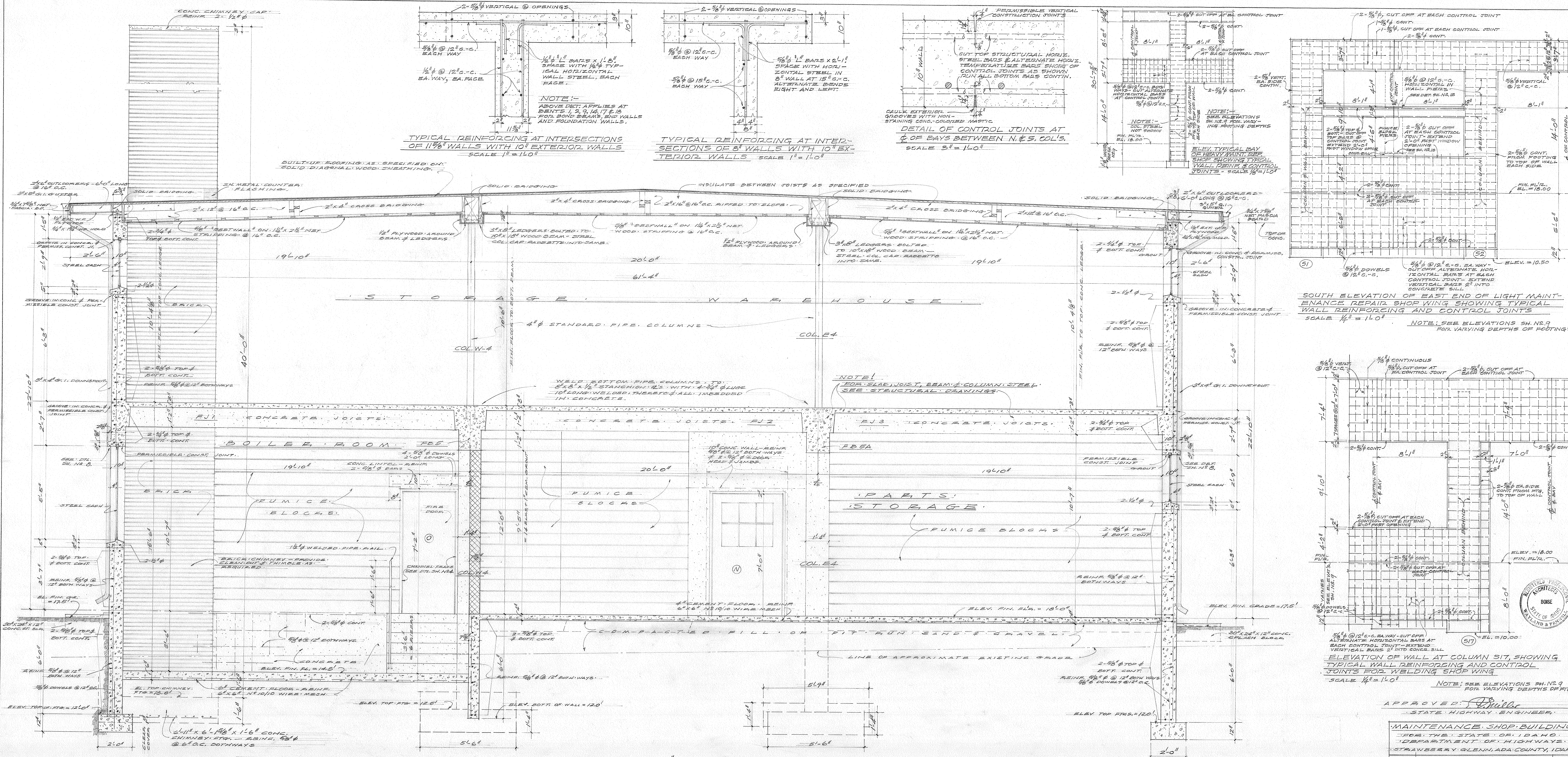
APPROVED: *[Signature]*
STATE HIGHWAY ENGINEER

MAINTENANCE SHOP BUILDING
FROM THE STATE OF IDAHO
DEPARTMENT OF HIGHWAYS
1374 W. BERRY GLENN, ADA COUNTY, IDAHO

DATE: OCT. 1953
WAYLAND & FENNELLS ARCHITECTS
BOISE, IDAHO

REGISTERED PROFESSIONAL ARCHITECTS
BOISE
WAYLAND & FENNELLS
STATE OF IDAHO

SHEET 15



TYPICAL REINFORCING AT INTERSECTIONS OF 11 7/8" WALLS WITH 10" EXTERIOR WALLS SCALE 1" = 1'-0"

TYPICAL REINFORCING AT INTERSECTIONS OF 8" WALLS WITH 10" EXTERIOR WALLS SCALE 1" = 1'-0"

DETAIL OF CONTROL JOINTS AT C. OF BAYS BETWEEN N. & S. COL'S. SCALE 3" = 1'-0"

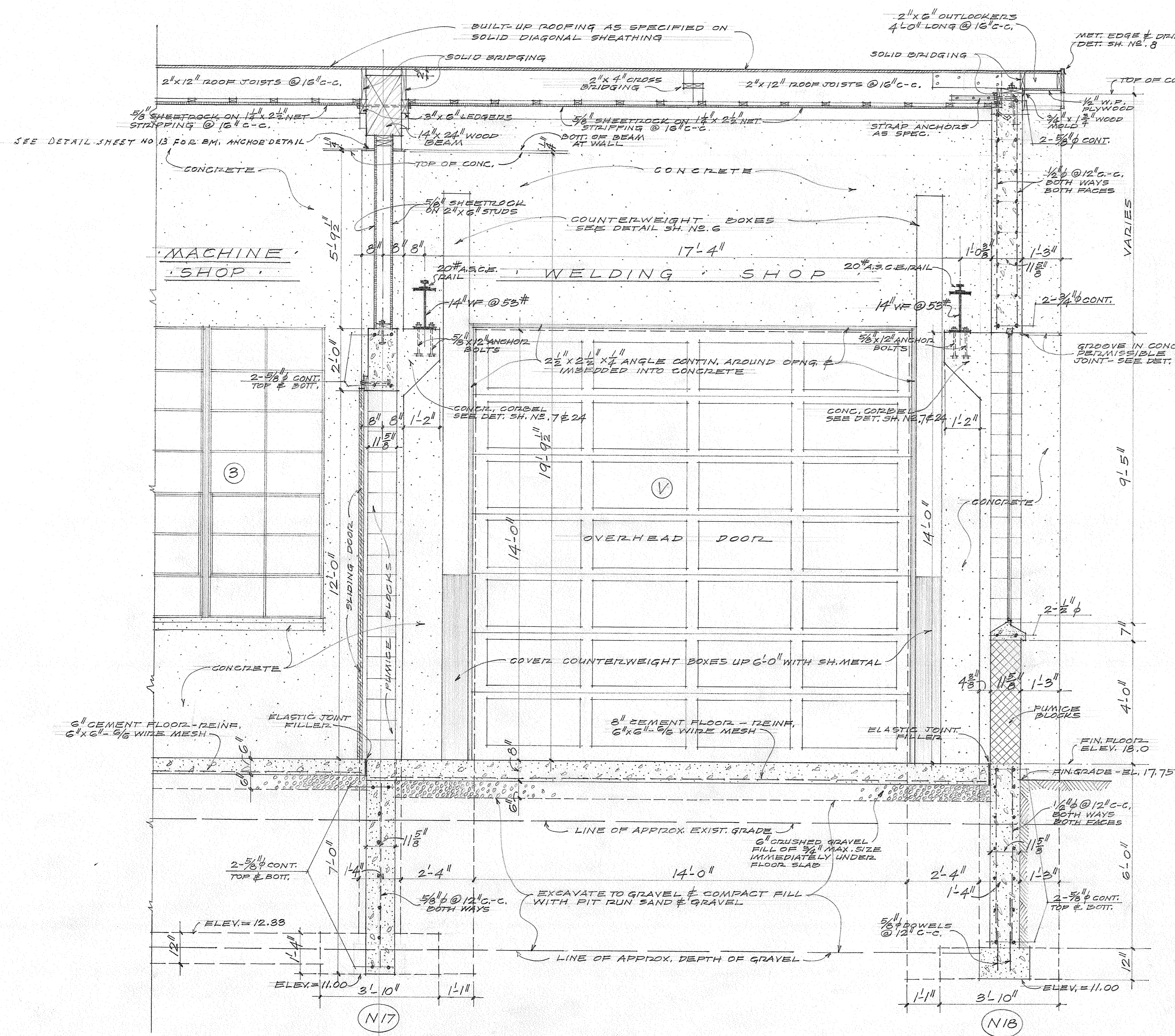
SOUTH ELEVATION OF EAST END OF LIGHT MAINTENANCE REPAIR SHOP WING SHOWING TYPICAL WALL REINFORCING AND CONTROL JOINTS SCALE 1/4" = 1'-0"

CROSS SECTION THROUGH "M-M" SCALE 1/2" = 1'-0"

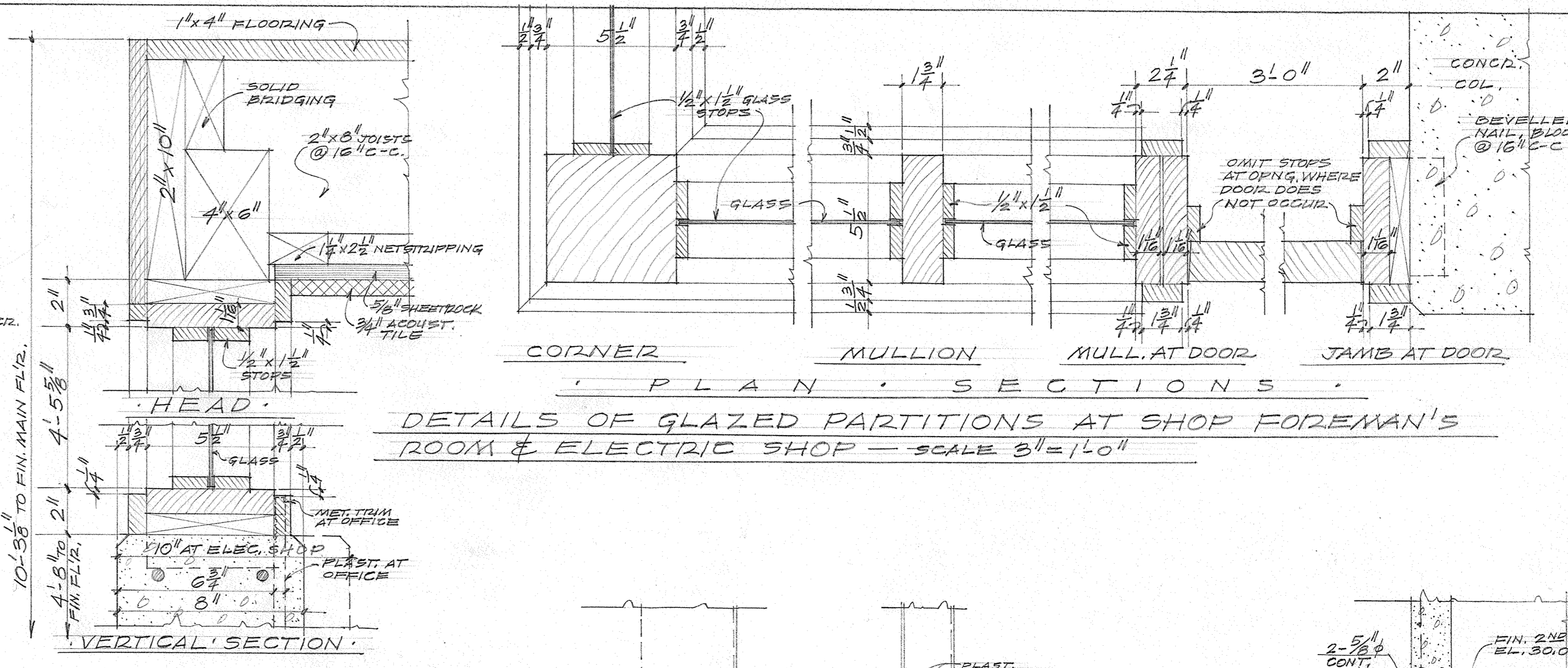
APPROVED: *[Signature]*
STATE HIGHWAY ENGINEER

MAINTENANCE SHOP BUILDING
FOR THE STATE OF IDAHO
DEPARTMENT OF HIGHWAYS
STRAWBERRY GLENN, ADA COUNTY, IDAHO

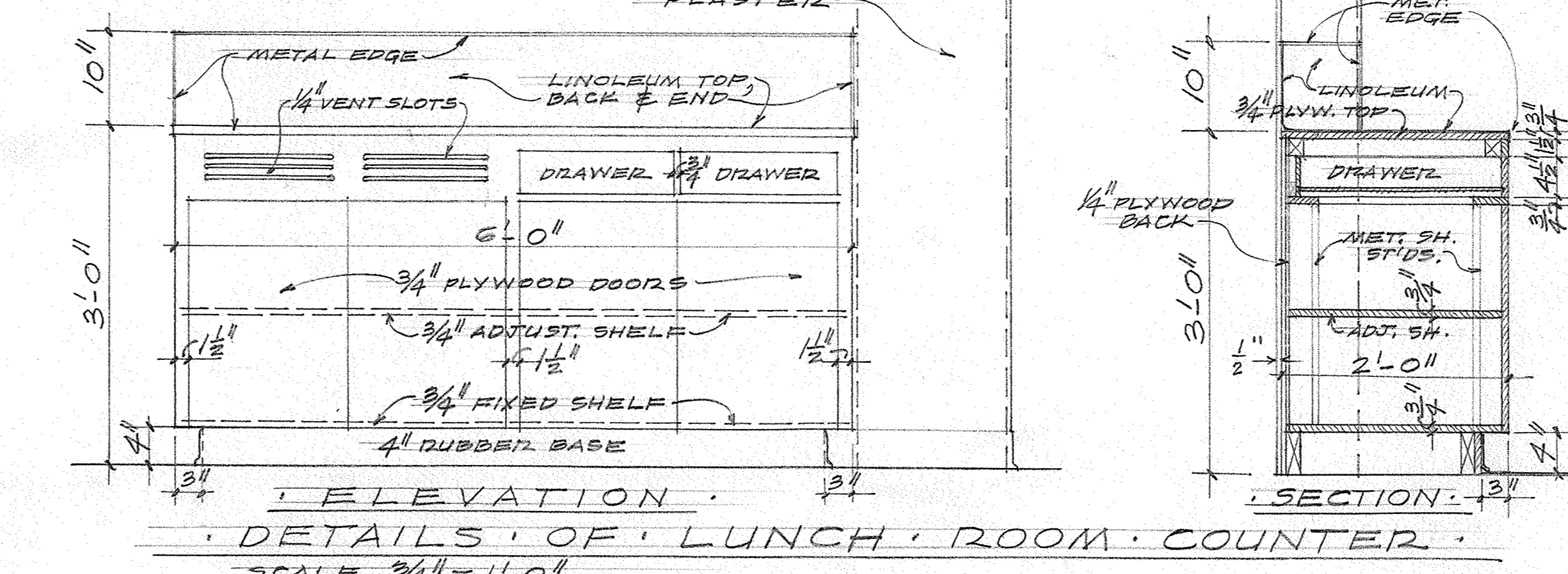
DATE: WAYLAND & FENNEL SHEET
C.V. WAYLAND C.V. WAYLAND
1953 JACQ. T. WOODMANSEE - ASSOC.
ARCHITECTS BOISE IDAHO 17



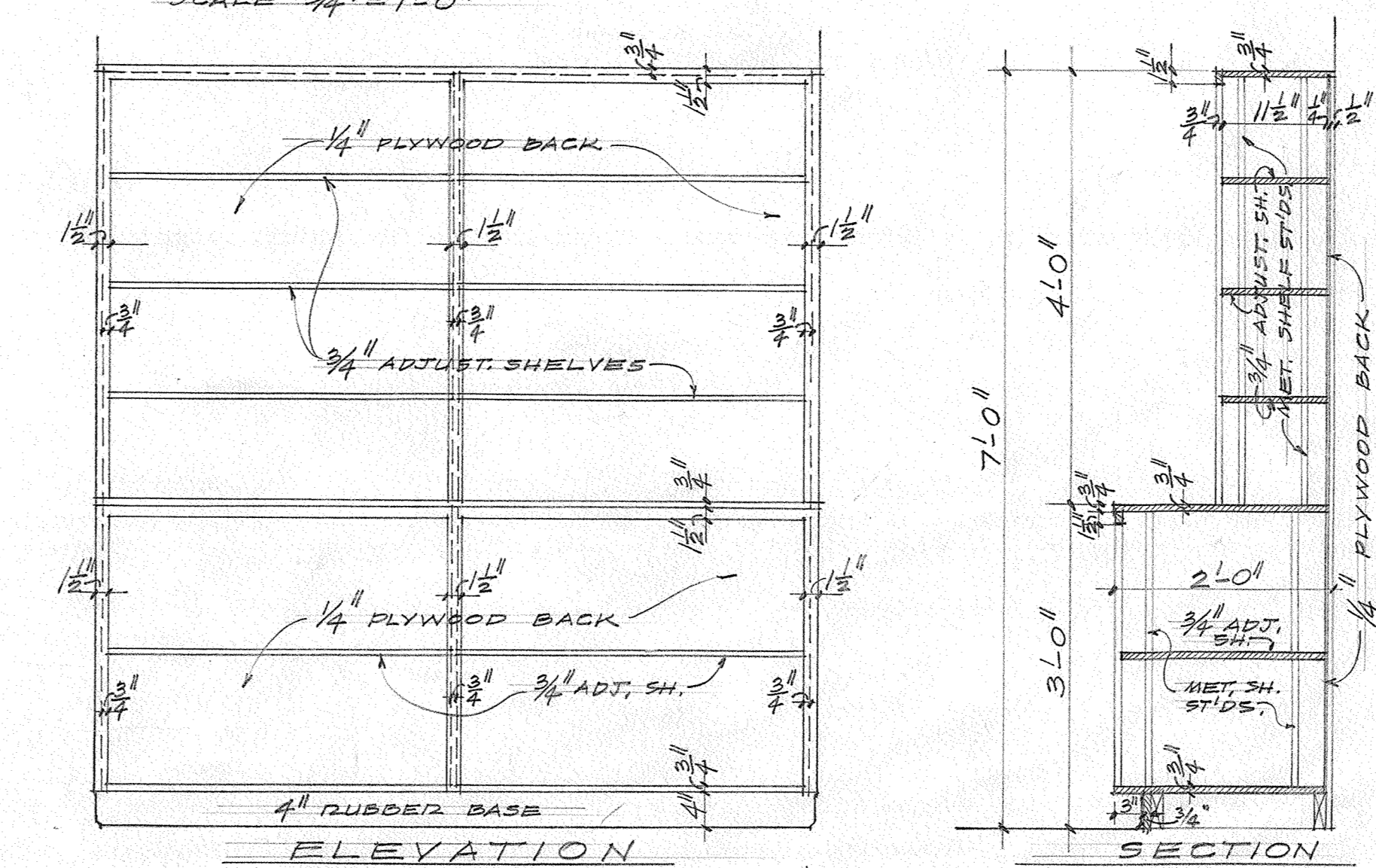
SECTION J-J
SCALE 1/2" = 1'-0"



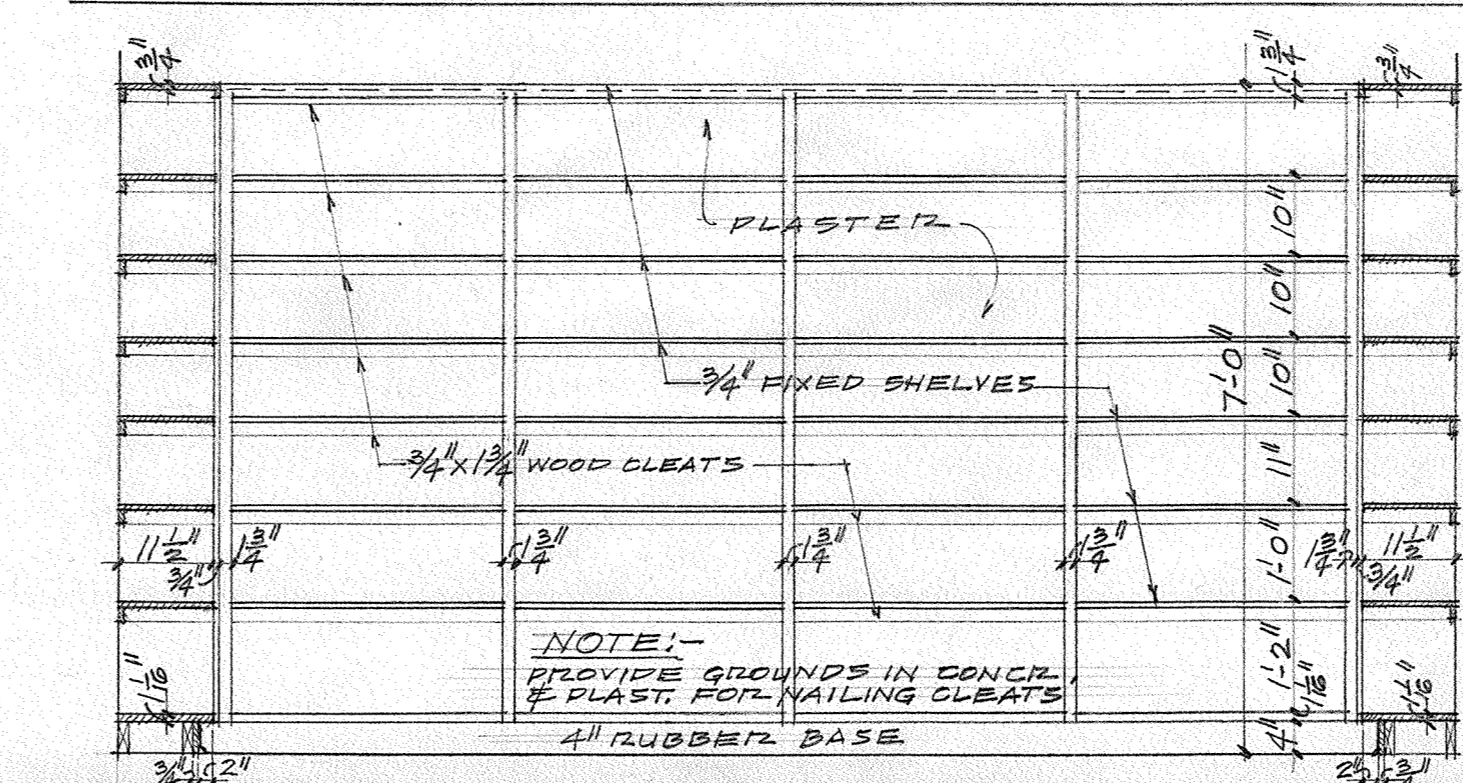
DETAILS OF GLAZED PARTITIONS AT SHOP FOREMAN'S ROOM & ELECTRIC SHOP - SCALE 3/4" = 1'-0"



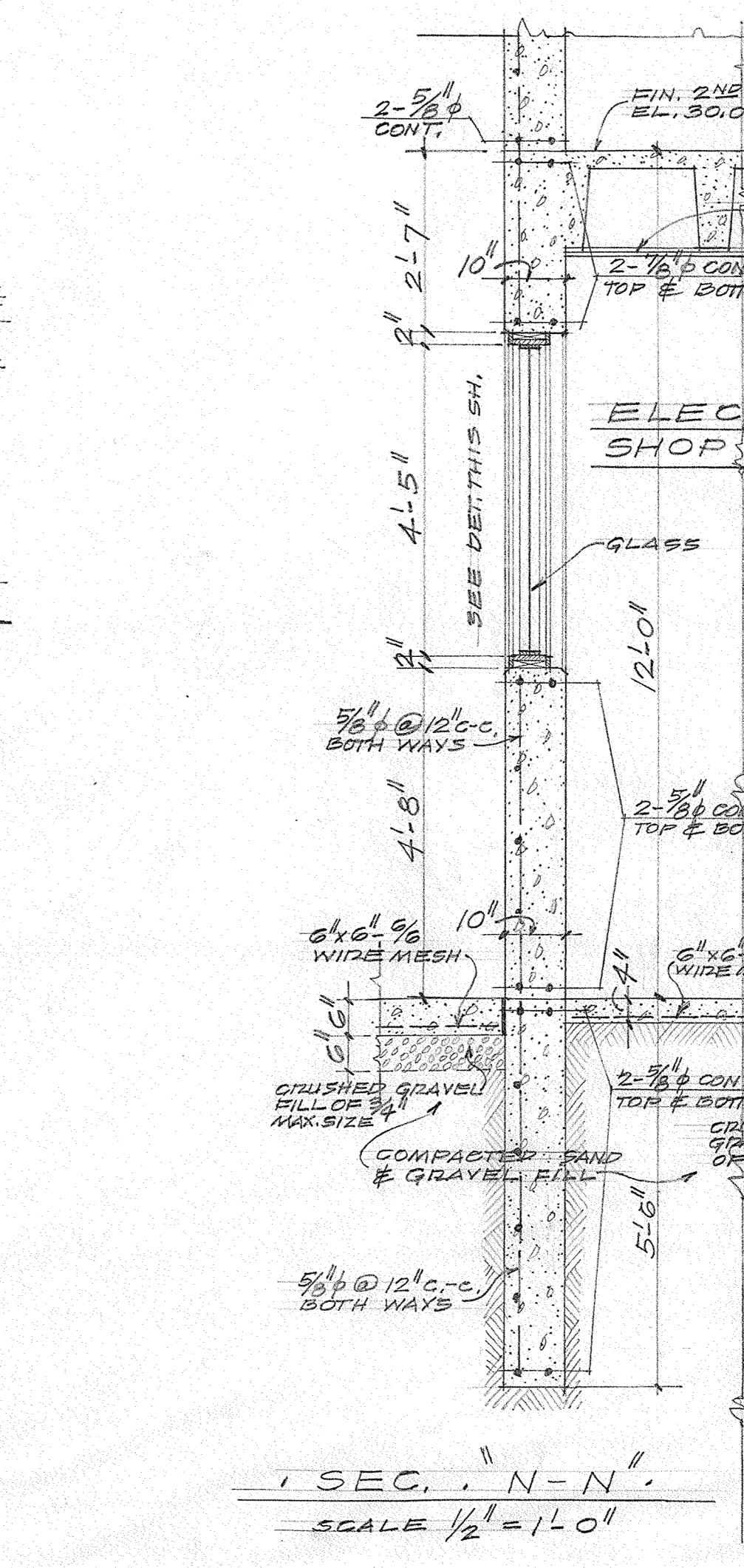
ELEVATION & SECTION
DETAILS OF LUNCH ROOM COUNTER
SCALE 3/4" = 1'-0"



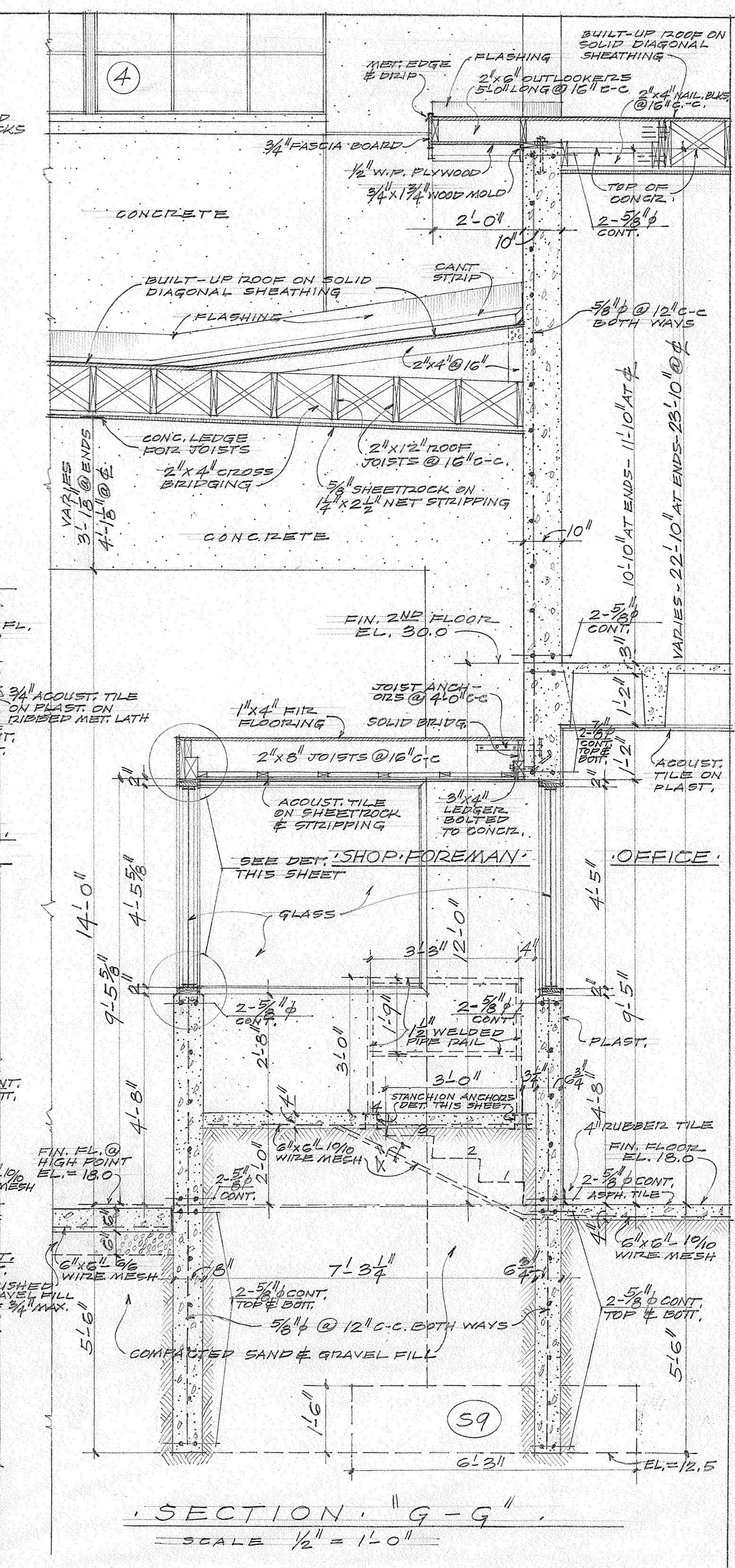
ELEVATION & SECTION
DET. SHELVING IN JANITOR'S CLOSET - SCALE 3/4" = 1'-0"



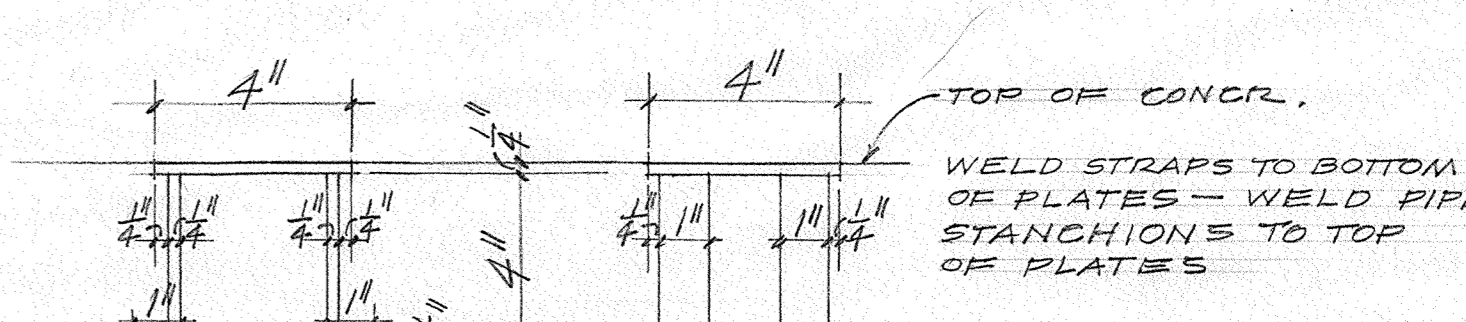
ELEVATION & SECTION
DET. SHELVING IN STORAGE ADJACENT TO OFFICE - SCALE 1/2" = 1'-0"



SECTION N-N
SCALE 1/2" = 1'-0"

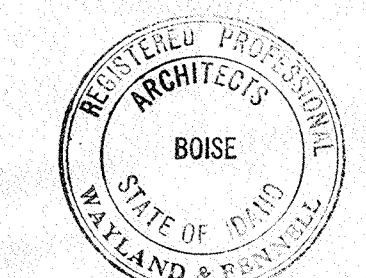


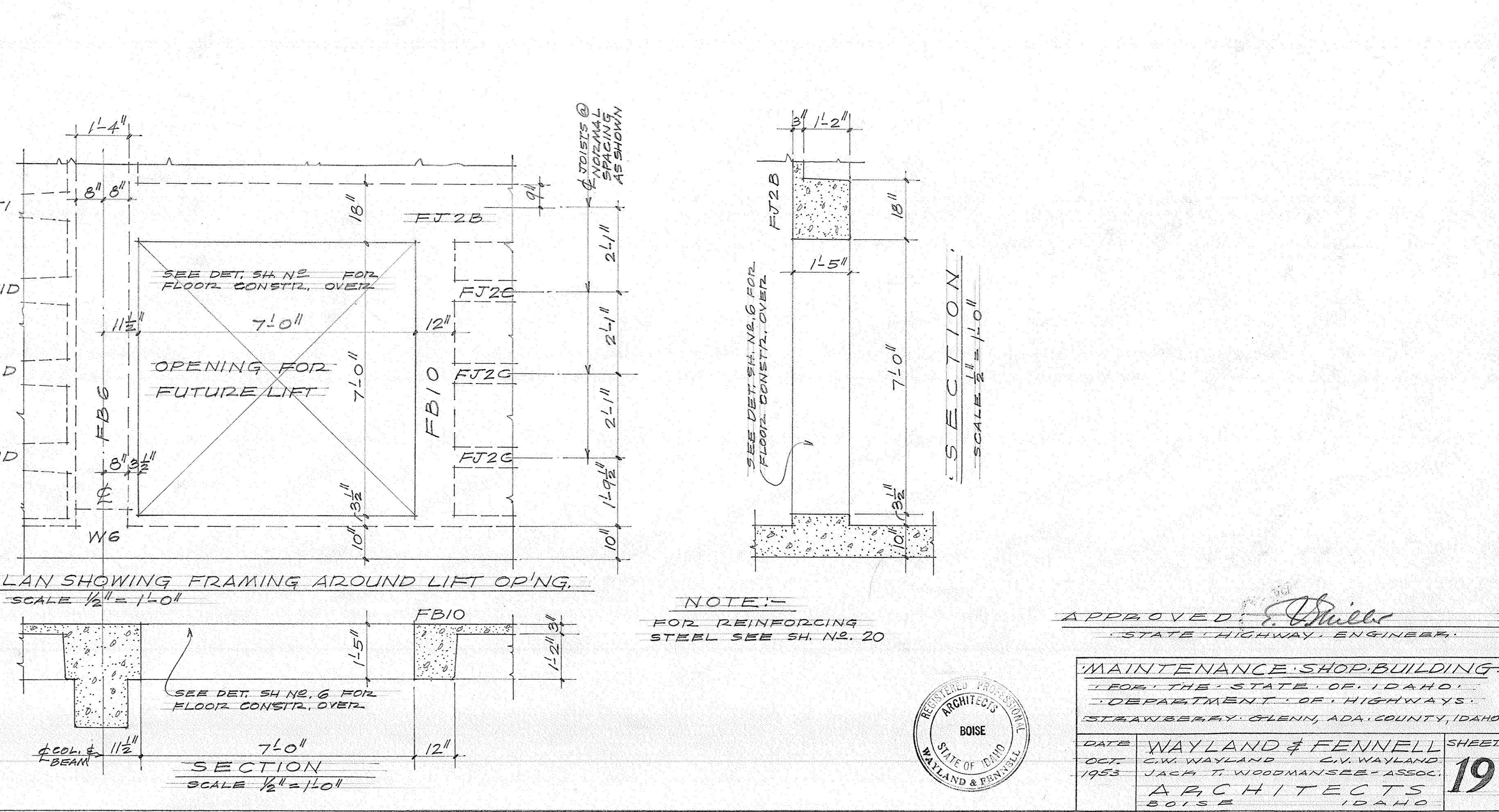
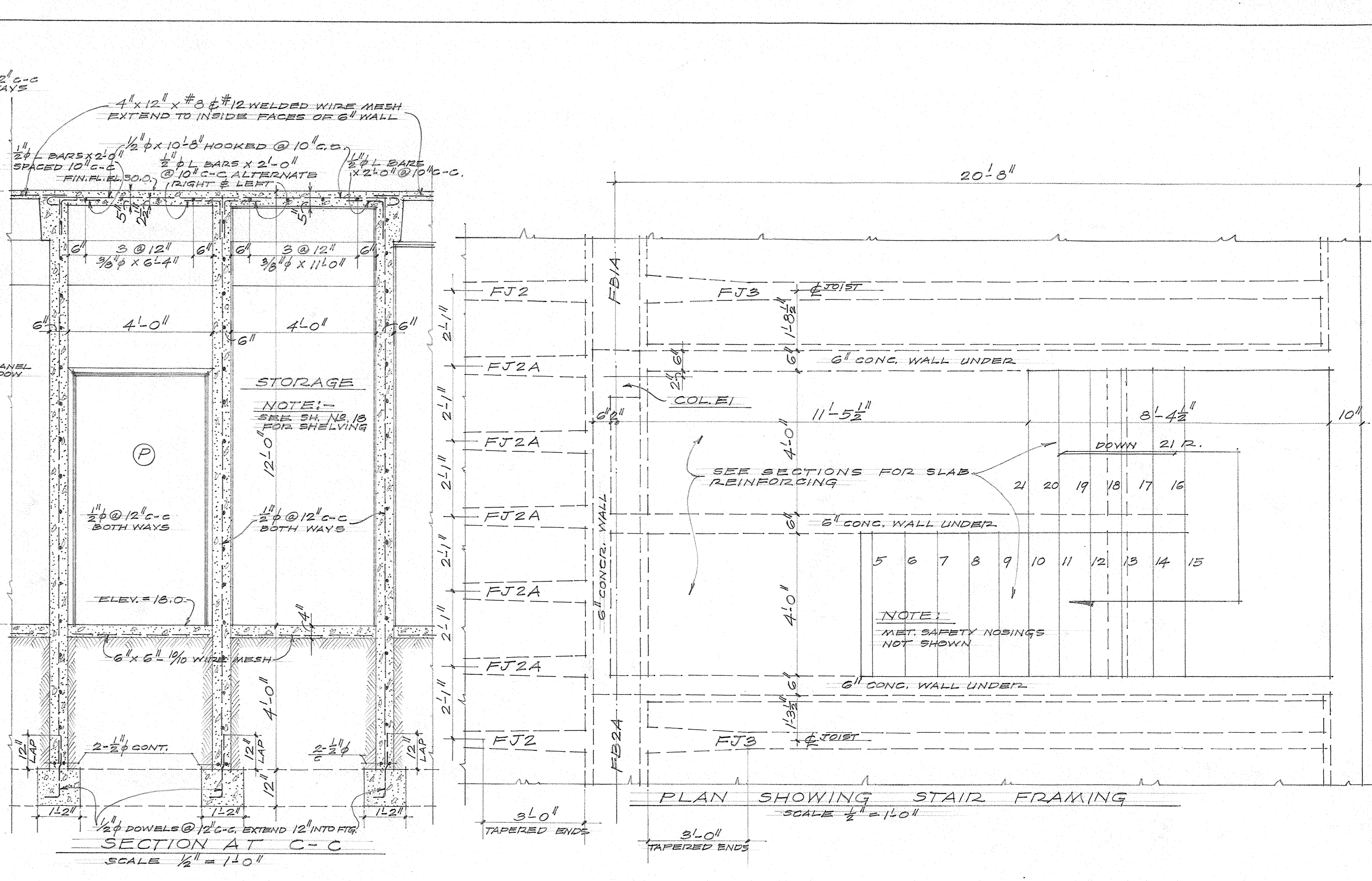
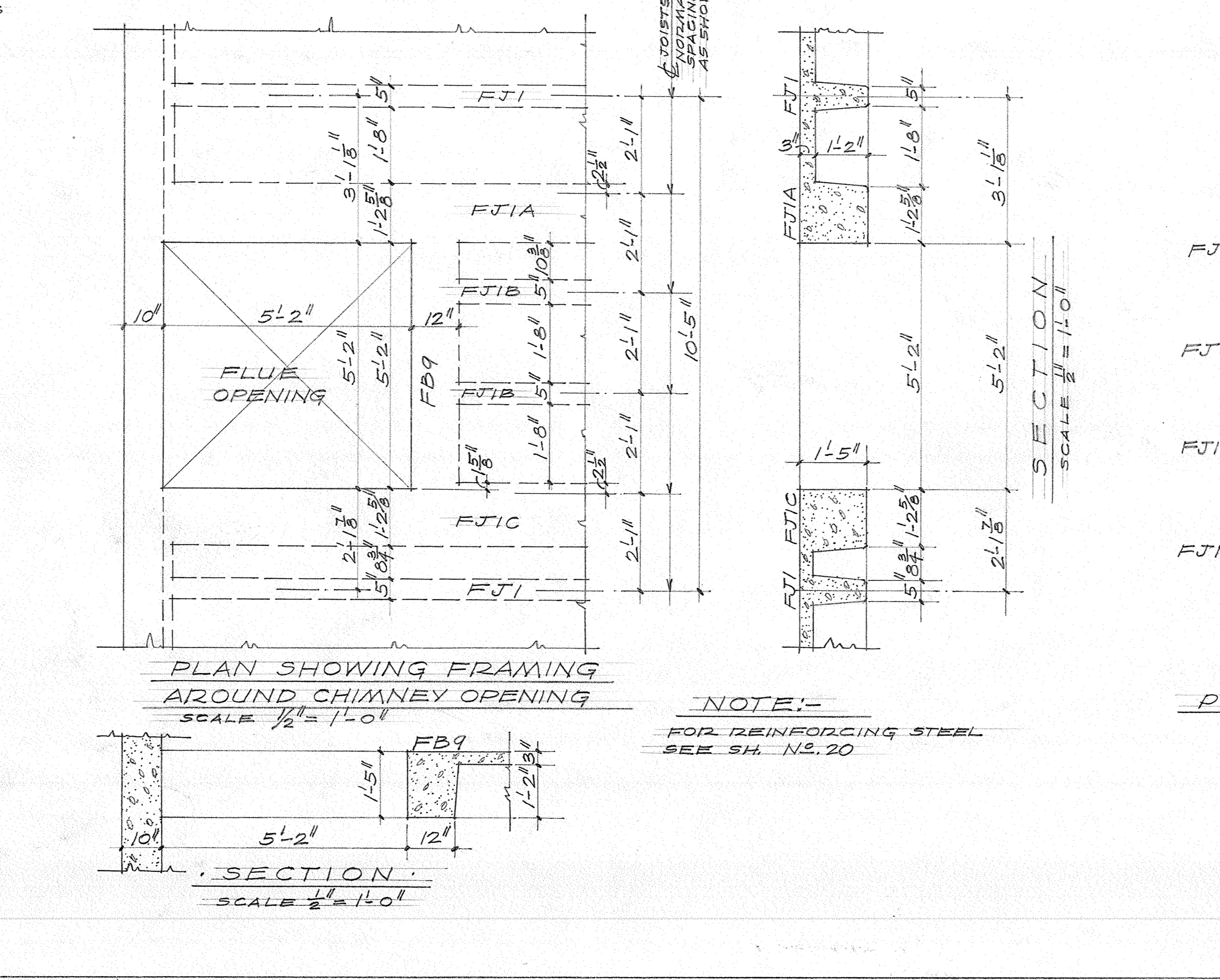
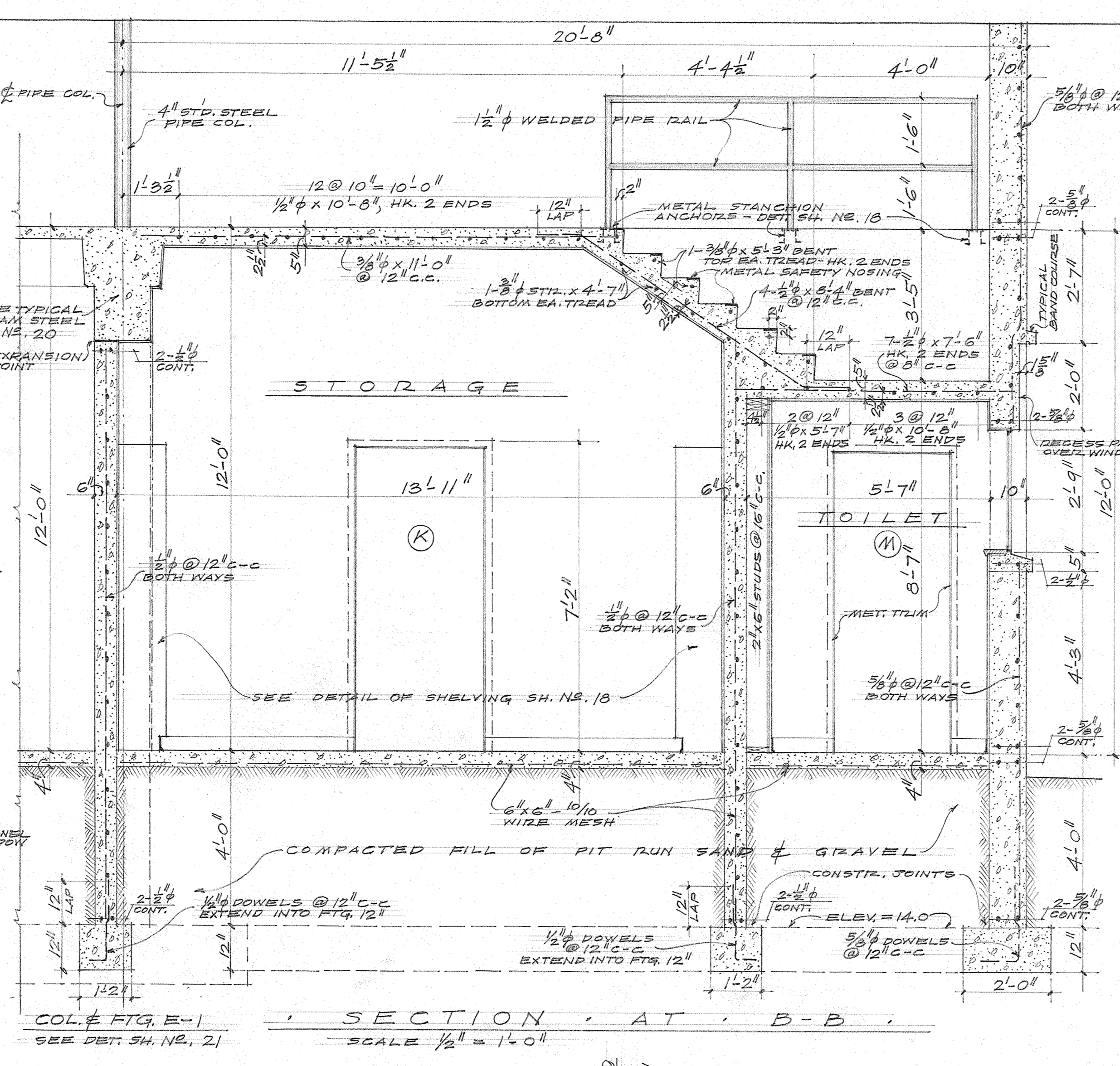
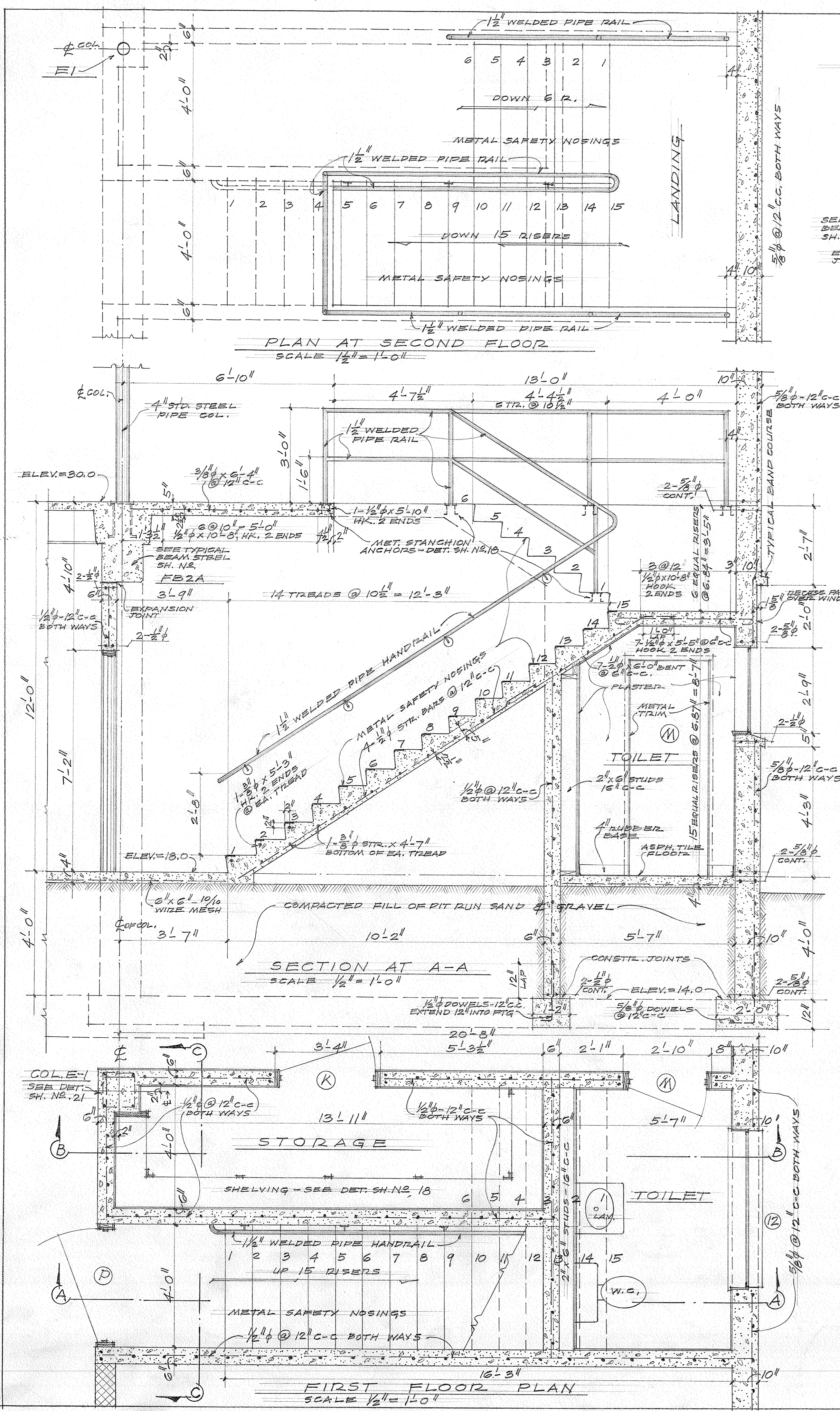
SECTION G-G
SCALE 1/2" = 1'-0"



DETAIL OF PIPE STANCHION ANCHORS
SCALE 3/4" = 1'-0"

APPROVED: *[Signature]*
STATE HIGHWAY ENGINEER
MAINTENANCE SHOP BUILDING
105, THE STATE OF IDAHO
DEPARTMENT OF HIGHWAYS
STRAWBERRY GLENN, ADA COUNTY, IDAHO
DATE: WAYLAND & FENNEL
BY: C. M. WAYLAND, CIVIL ENGINEER
1953 JACQ. T. WOODMANSEE - ASSOC.
ARCHITECTS
BOISE IDAHO



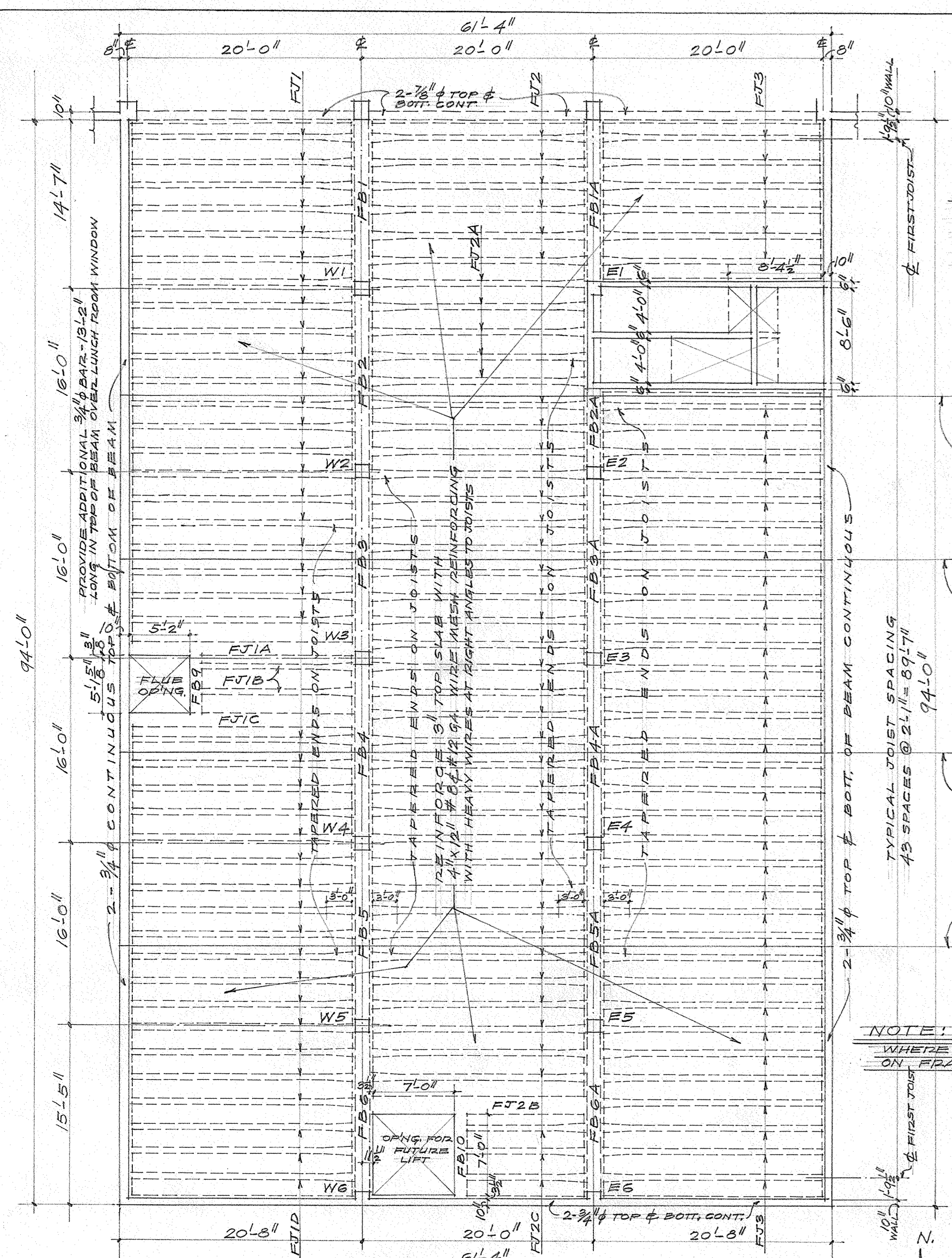


APPROVED: *[Signature]*
STATE HIGHWAY ENGINEER

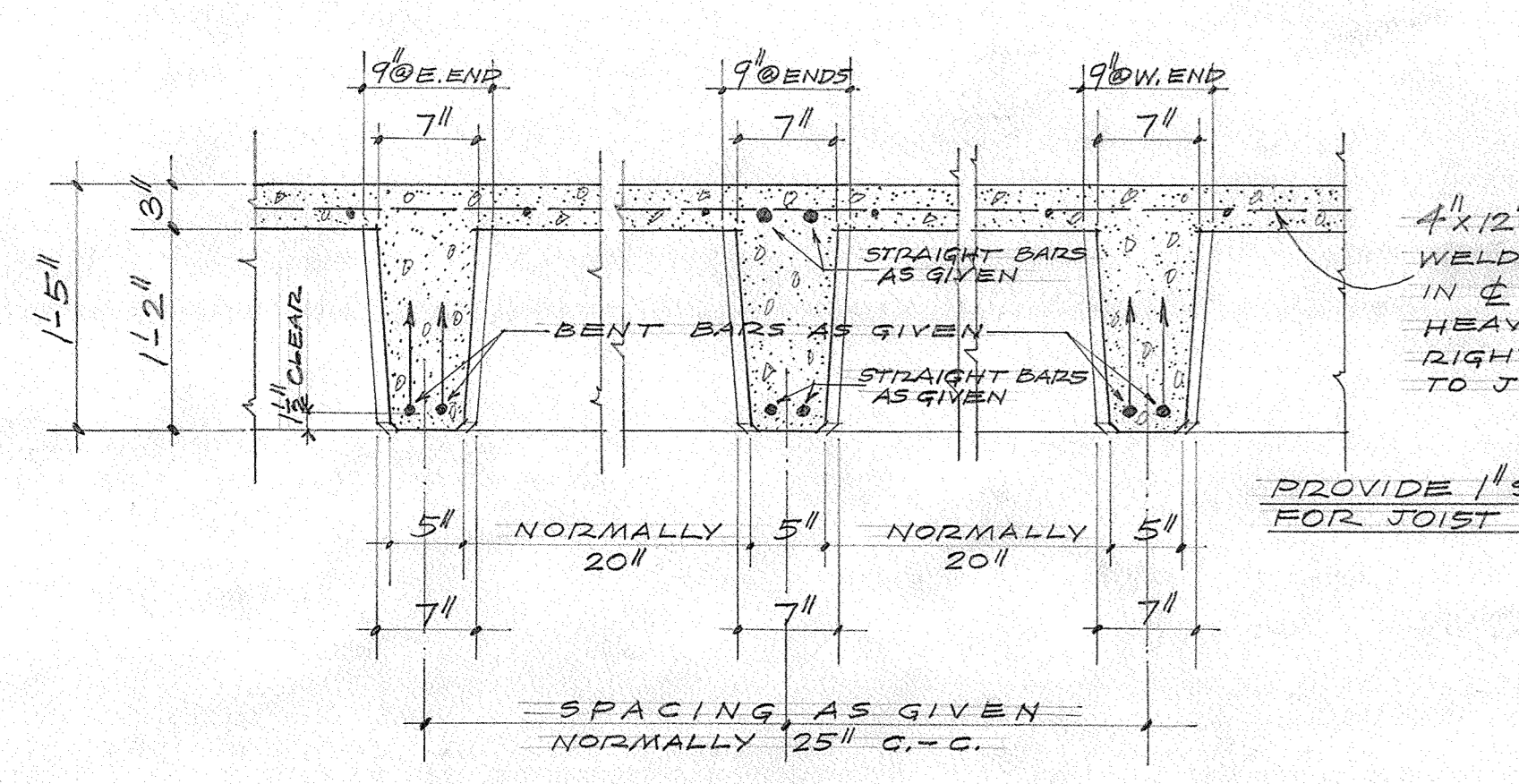
MAINTENANCE SHOP BUILDING
FOR THE STATE OF IDAHO
DEPARTMENT OF HIGHWAYS
STRAUSSER, GLENN, ADA COUNTY, IDAHO

DATE: WAYLAND & FENNEL
BY: G.W. WAYLAND & C.W. WAYLAND
1953 W.A.S.M. & WOODMANSEY & ASSOC.
ARCHITECTS
BOISE, IDAHO

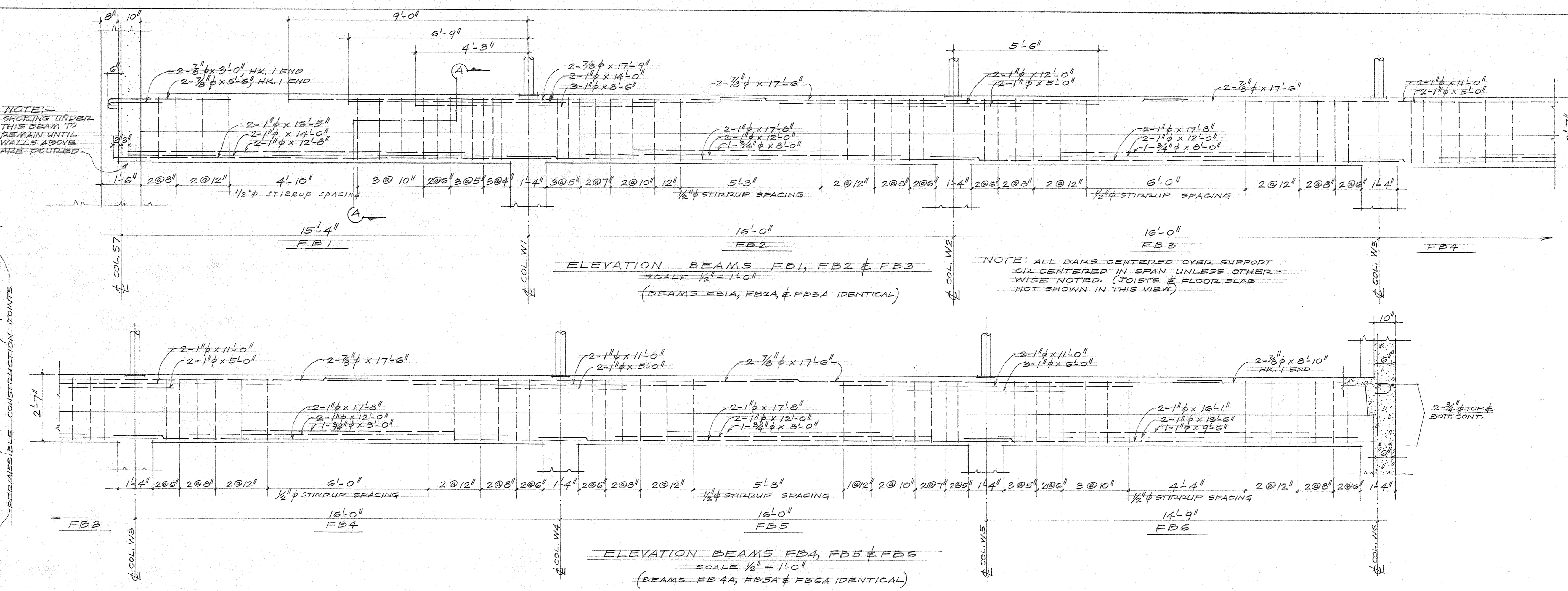
19



SECOND FLOOR STRUCTURAL FRAMING PLAN
SHOWING 1ST STORY WALLS & COLUMNS
SCALE 1/8" = 1'-0"



TYPICAL CONCRETE JOIST DETAILS
SCALE 1" = 1'-0"



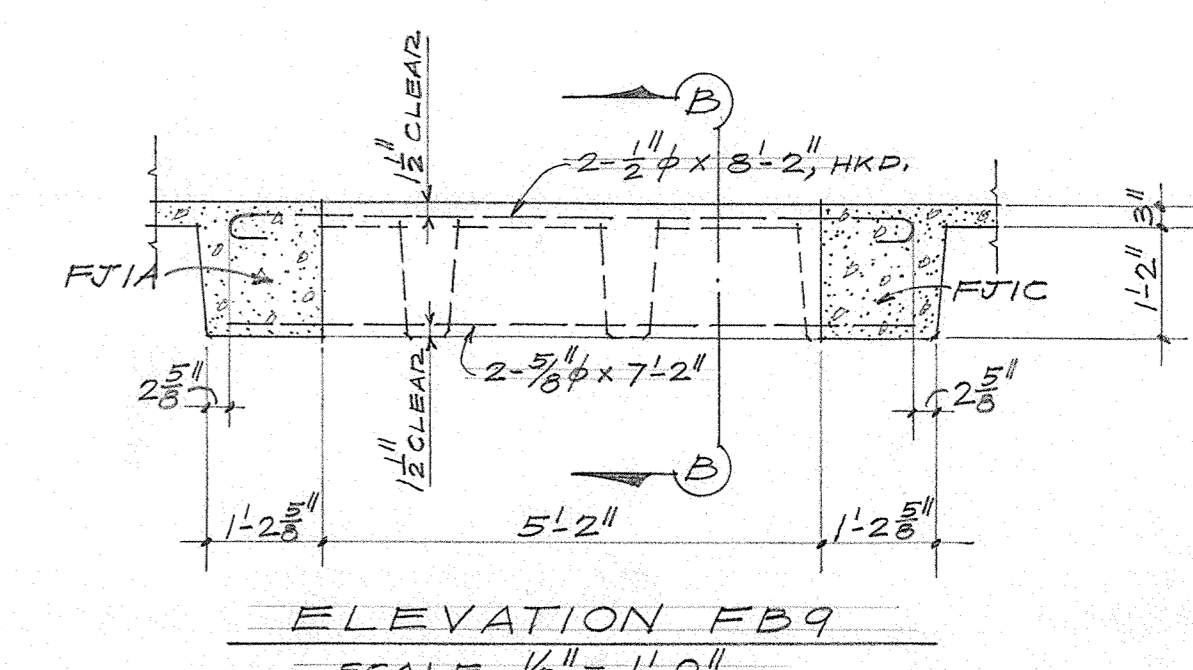
NOTE: WHERE CONSTRUCTION JOINTS OCCUR THRU BEAMS AS SHOWN ON FRAMING PLAN PROVIDE SHEAR KEYS

SECOND FLOOR JOIST SCHEDULE

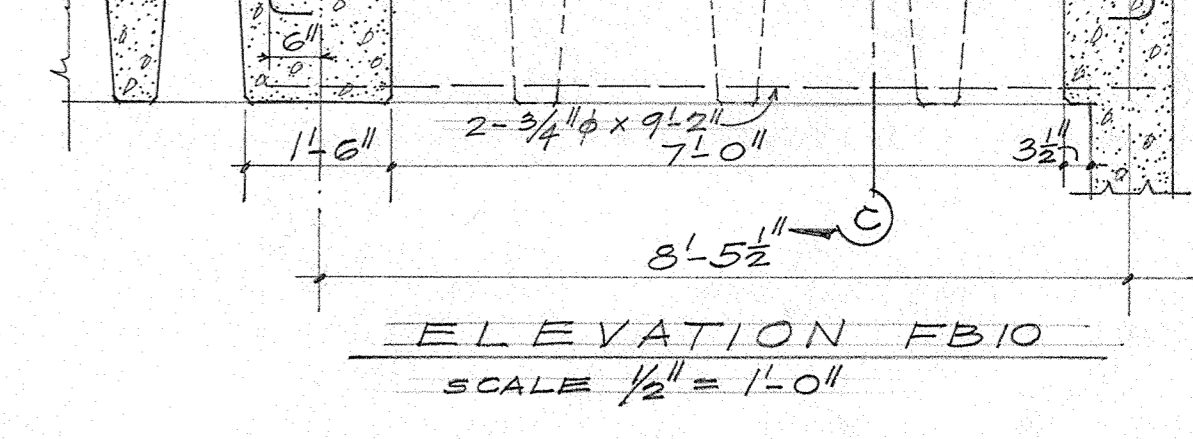
MARK	SIZE		REINFORCEMENT		EAST END
	WIDTH	DEPTH	NO.	TYPE	
FJ1	7"	1'-5"	1	1" φ	3'-0" 5'-0"
	5"		1	3/4" φ	9'
FJ1A & FJ1C	15'-5"	1'-5"	2	3/4" φ	3'-0" 5'-0"
	14'-5"		1	1" φ	3'-0" 5'-0"
			1	3/4" φ	3'-0" 5'-0"
FJ1D	7"	1'-5"	1	5/8" φ	3'-0" 5'-0"
	5"		1	3/4" φ	9'
FJ1E	7"	1'-5"	1	1" φ	3'-0" 5'-0"
	5"		1	1" φ	1'-9" 4'
FJ2	7"	1'-5"	1	5/8" φ	9'-0" 9'-0"
	5"		1	3/4" φ	6'-3" 6'-3"
			1	3/4" φ	12'-0" 6'

SECOND FLOOR JOIST SCHEDULE (CONTIN.)

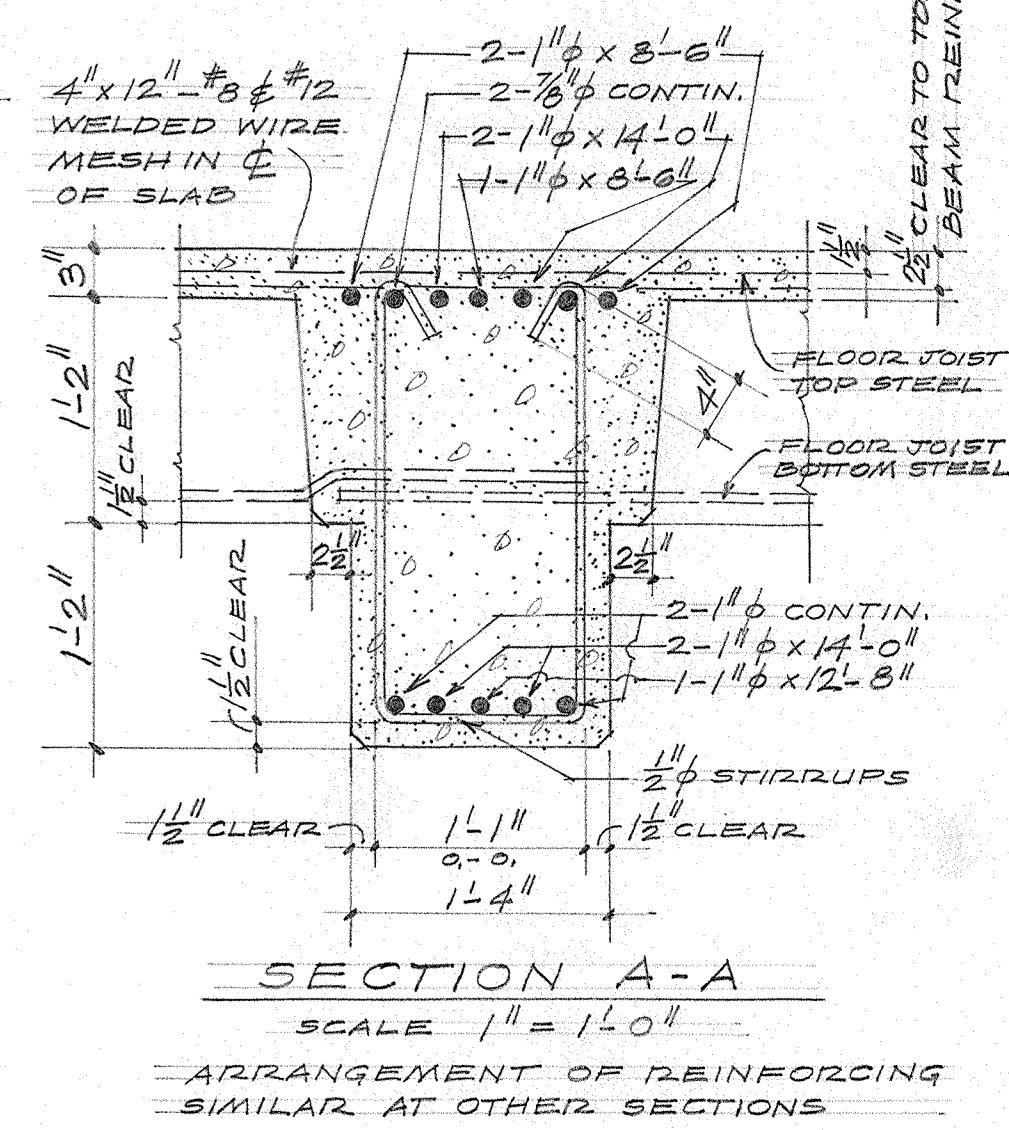
MARK	SIZE		REINFORCEMENT		EAST END
	WIDTH	DEPTH	NO.	TYPE	
FJ2A	7"	1'-5"	1	5/8" φ	9'-0" 11'-0"
	5"		1	3/4" φ	6'-3" 12'-0"
			1	1" φ	6'
FJ2B	18"	1'-5"	4	3/4" φ	2-BARS 3'-0" 2-BARS 3'-0"
			2	1" φ	14'-0" 14'-0"
			2	1" φ	6'
FJ2C	7"	1'-5"	1	5/8" φ	14' 6'-4" 3'-0"
	5"		2	5/8" φ	4' 3'-7" 6'
FJ3	7"	1'-5"	1	1" φ	5'-0" 3'-0" 3'
	5"		1	3/4" φ	9' 11'-6" 3'



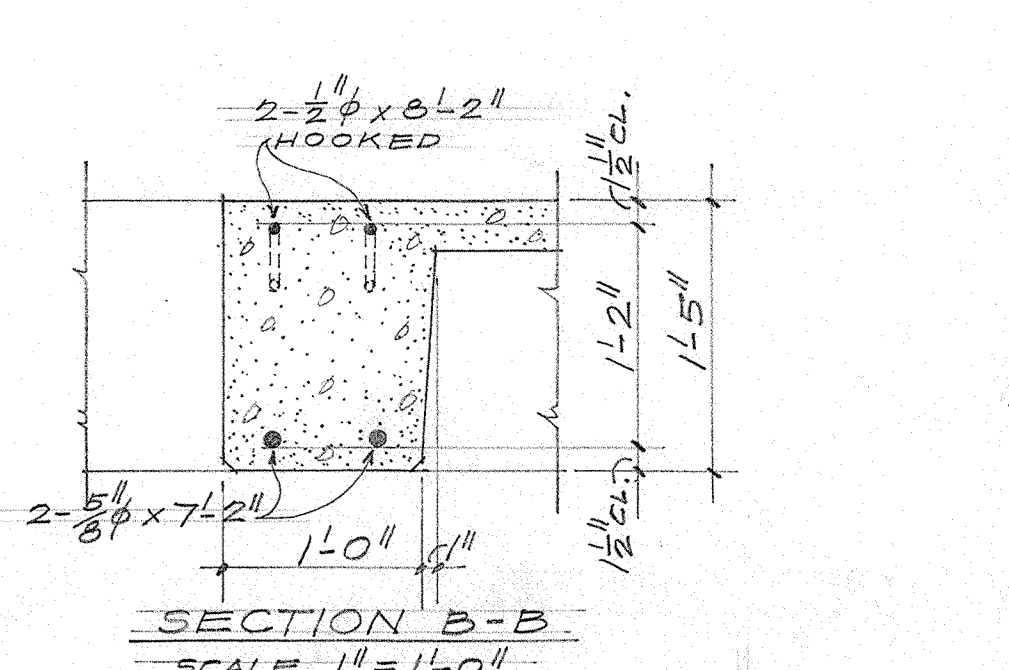
ELEVATION FB9
SCALE 1/2" = 1'-0"



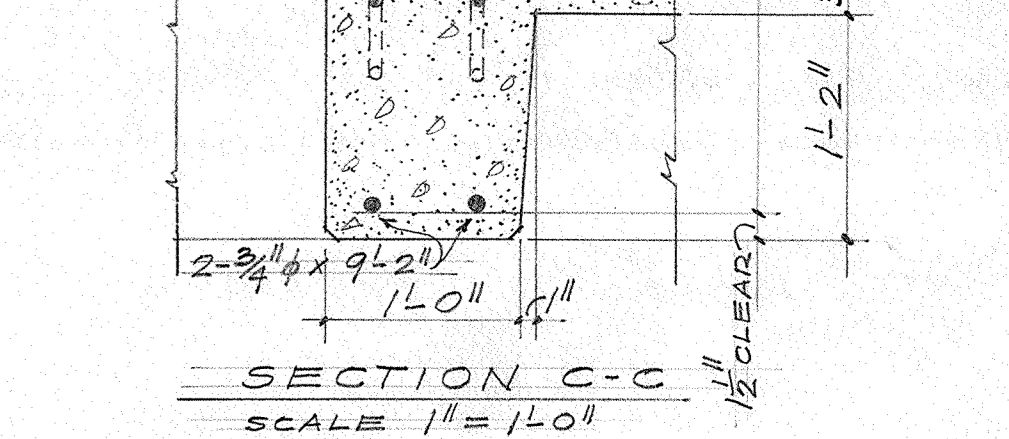
ELEVATION FB10
SCALE 1/2" = 1'-0"



SECTION A-A
SCALE 1" = 1'-0"
ARRANGEMENT OF REINFORCING SIMILAR AT OTHER SECTIONS

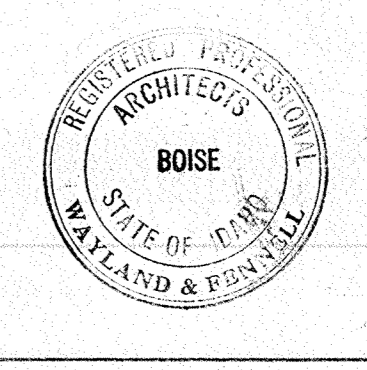


SECTION B-B
SCALE 1" = 1'-0"



SECTION C-C
SCALE 1" = 1'-0"

APPROVED: *Miller*
STATE HIGHWAY ENGINEER



MAINTENANCE SHOP BUILDING
FOR THE STATE OF IDAHO
DEPARTMENT OF HIGHWAYS
STRAWBERRY, GLENN, ADA COUNTY, IDAHO
DATE: OCT 1953
WAYLAND & FENNEL
ENGINEERS & ARCHITECTS
BOISE, IDAHO

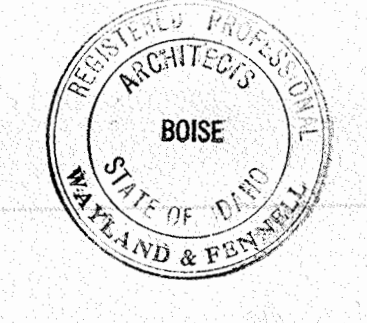
COLUMN & FOOTING SCHEDULE

MARK	N1	N2	N3	N4	N5	N6	N7	N8	N9	N10	N11	N12	N13	N14	N15	N16	N17	N18	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12		
2ND STORY COLUMNS	X																															
COLUMN SIZE EAST & WEST X NORTH & SOUTH	X																															
VERTICAL REINFORCING HOOPS	X																															
FOUNDATION 1ST STORY COLUMNS	16"x18"	16"x18"	16"x18"	16"x18"	16"x18"	16"x18"	16"x18"	16"x18"	16"x18"	16"x20"	16"x20"	16"x20"	16"x20"	16"x20"	16"x18"	16"x18"	16"x18"	16"x18"	16"x18"	16"x18"	16"x18"	16"x18"	16"x18"	16"x18"	16"x18"	16"x18"	16"x18"	16"x18"	16"x18"	16"x18"		
COLUMN SIZE EAST & WEST X NORTH & SOUTH	16"x18"	16"x18"	16"x18"	16"x18"	16"x18"	16"x18"	16"x18"	16"x18"	16"x18"	16"x20"	16"x20"	16"x20"	16"x20"	16"x20"	16"x18"	16"x18"	16"x18"	16"x18"	16"x18"	16"x18"	16"x18"	16"x18"	16"x18"	16"x18"	16"x18"	16"x18"	16"x18"	16"x18"	16"x18"	16"x18"		
VERTICAL REINFORCING HOOPS	4-7/8" @ 12"	4-7/8" @ 12"	6-1" @ 12"	6-1" @ 12"	6-1" @ 12"	6-1" @ 12"	6-1" @ 12"	6-1" @ 12"	6-1" @ 12"	8-1" @ 12"	8-1" @ 12"	8-1" @ 12"	8-1" @ 12"	8-1" @ 12"	4-1" @ 12"	4-1" @ 12"	4-1" @ 12"	4-1" @ 12"	4-1" @ 12"	4-1" @ 12"	4-1" @ 12"	4-1" @ 12"	4-1" @ 12"	4-1" @ 12"	4-1" @ 12"	4-1" @ 12"	4-1" @ 12"	4-1" @ 12"	4-1" @ 12"	4-1" @ 12"		
FOOTINGS	4-7/8" @ 12"	4-7/8" @ 12"	6-1" @ 12"	6-1" @ 12"	6-1" @ 12"	6-1" @ 12"	6-1" @ 12"	6-1" @ 12"	8-1" @ 12"	8-1" @ 12"	8-1" @ 12"	8-1" @ 12"	8-1" @ 12"	8-1" @ 12"	6-1" @ 12"	6-1" @ 12"	6-1" @ 12"	6-1" @ 12"	6-1" @ 12"	6-1" @ 12"	6-1" @ 12"	6-1" @ 12"	6-1" @ 12"	6-1" @ 12"	6-1" @ 12"	6-1" @ 12"	6-1" @ 12"	6-1" @ 12"	6-1" @ 12"	6-1" @ 12"		
STEEL MAT E-W REINFORCING N-S	4-1/2" @ 12"	4-1/2" @ 12"	B.E.W. 5-1/2" @ 12" T.N.S. 4-1/2" @ 12" B.N.S. 9-5/8" @ 12"	B.E.W. 5-1/2" @ 12" T.N.S. 4-1/2" @ 12" B.N.S. 9-5/8" @ 12"	B.E.W. 5-1/2" @ 12" T.N.S. 4-1/2" @ 12" B.N.S. 9-5/8" @ 12"	B.E.W. 5-1/2" @ 12" T.N.S. 4-1/2" @ 12" B.N.S. 9-5/8" @ 12"	B.E.W. 5-1/2" @ 12" T.N.S. 4-1/2" @ 12" B.N.S. 9-5/8" @ 12"	B.E.W. 5-1/2" @ 12" T.N.S. 4-1/2" @ 12" B.N.S. 9-5/8" @ 12"	B.E.W. 5-1/2" @ 12" T.N.S. 4-1/2" @ 12" B.N.S. 9-5/8" @ 12"	13-1/2" @ 12"	15-1/2" @ 12"	13-1/2" @ 12"	13-1/2" @ 12"	13-1/2" @ 12"	14-5/8" @ 12"	B.E.W. 6-1/2" @ 12" T.N.S. 4-1/2" @ 12" B.N.S. 11-5/8" @ 12"	B.E.W. 6-1/2" @ 12" T.N.S. 4-1/2" @ 12" B.N.S. 11-5/8" @ 12"	B.E.W. 6-1/2" @ 12" T.N.S. 4-1/2" @ 12" B.N.S. 11-5/8" @ 12"	4-1/2" @ 12"	4-1/2" @ 12"	4-1/2" @ 12"	B.E.W. 5-1/2" @ 12" T.N.S. 4-1/2" @ 12" B.N.S. 9-5/8" @ 12"	B.E.W. 5-1/2" @ 12" T.N.S. 4-1/2" @ 12" B.N.S. 9-5/8" @ 12"	B.E.W. 5-1/2" @ 12" T.N.S. 4-1/2" @ 12" B.N.S. 9-5/8" @ 12"	14-1/2" @ 12"	14-1/2" @ 12"	14-1/2" @ 12"	17-5/8" @ 12"	13-1/2" @ 12"	13-1/2" @ 12"	13-1/2" @ 12"	
WIDTH X LENGTH EAST & WEST X NORTH & SOUTH	3'-10" x 3'-10"	3'-10" x 3'-10"	3'-10" x 7'-0"	3'-10" x 7'-0"	3'-10" x 7'-0"	3'-10" x 7'-0"	3'-10" x 7'-0"	3'-10" x 7'-0"	3'-10" x 7'-0"	5'-0" x 8'-6"	5'-0" x 8'-6"	5'-0" x 8'-6"	5'-0" x 8'-6"	5'-0" x 8'-6"	3'-10" x 8'-0"	3'-10" x 8'-0"	3'-10" x 8'-0"	3'-10" x 8'-0"	3'-10" x 8'-0"	3'-10" x 8'-0"	3'-10" x 8'-0"	3'-10" x 8'-0"	3'-10" x 8'-0"	3'-10" x 8'-0"	3'-10" x 8'-0"	3'-10" x 8'-0"	3'-10" x 8'-0"	3'-10" x 8'-0"	3'-10" x 8'-0"	3'-10" x 8'-0"	3'-10" x 8'-0"	
THICKNESS	12"	12"	14"	14"	14"	14"	14"	14"	14"	13"	13"	13"	13"	13"	13"	16"	16"	16"	12"	12"	12"	14"	14"	14"	14"	16"	16"	16"	16"	16"	16"	16"
ELEVATION TOP OF FOOTING	12.50	12.50	12.67	12.67	12.67	12.67	12.67	12.67	12.67	13.00	13.00	13.00	13.00	13.00	12.83	12.83	12.83	12.83	12.83	12.83	12.83	12.83	12.83	12.83	12.83	12.83	12.83	12.83	12.83	12.83	12.83	12.83

COLUMN & FOOTING SCHEDULE

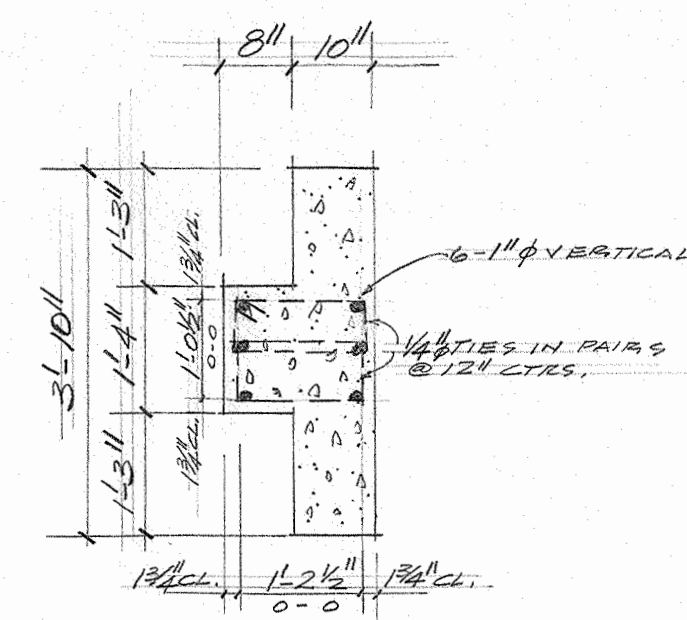
MARK	S13	S14	S15	S16	S17	S18	C3	C4	C5	C6	C7	C8	C9	C14	C15	C16	C17	C18	W1	W2	W3	W4	W5	W6	E1	E2	E3	E4	E5	E6
2ND STORY COLUMNS	X																													
COLUMN SIZE EAST & WEST X NORTH & SOUTH	X																													
VERTICAL REINFORCING HOOPS	X																													
FOUNDATION 1ST STORY COLUMNS	16"x20"	16"x20"	16"x20"	16"x20"	16"x20"	16"x20"	10"x10" WOOD COL.	10"x10" WOOD COL.	10"x10" WOOD COL.	10"x10" WOOD COL.	10"x10" WOOD COL.	10"x10" WOOD COL.	10"x10" WOOD COL.	16"x16"	24"x16"	16"x16"	16"x16"	16"x16"	16"x16"	16"x16"	16"x16"	16"x16"	16"x16"	16"x16"	16"x16"	16"x16"	16"x16"	16"x16"	16"x16"	16"x16"
COLUMN SIZE EAST & WEST X NORTH & SOUTH	16"x20"	16"x20"	16"x20"	16"x20"	16"x20"	16"x20"	10"x10" WOOD COL.	10"x10" WOOD COL.	10"x10" WOOD COL.	10"x10" WOOD COL.	10"x10" WOOD COL.	10"x10" WOOD COL.	10"x10" WOOD COL.	16"x16"	24"x16"	16"x16"	16"x16"	16"x16"	16"x16"	16"x16"	16"x16"	16"x16"	16"x16"	16"x16"	16"x16"	16"x16"	16"x16"	16"x16"	16"x16"	16"x16"
VERTICAL REINFORCING HOOPS	4-1" @ 12"	4-1" @ 12"	4-1" @ 12"	4-1" @ 12"	4-1" @ 12"	4-1" @ 12"	4-3/4" @ 12"	4-3/4" @ 12"	4-3/4" @ 12"	4-3/4" @ 12"	4-3/4" @ 12"	4-3/4" @ 12"	4-3/4" @ 12"	4-1" @ 12"	6-1" @ 12"	4-1" @ 12"	4-1" @ 12"	4-1" @ 12"	4-1" @ 12"	4-1" @ 12"	4-1" @ 12"	4-1" @ 12"	4-1" @ 12"	4-1" @ 12"	4-1" @ 12"	4-1" @ 12"	4-1" @ 12"	4-1" @ 12"	4-1" @ 12"	4-1" @ 12"
FOOTINGS	4-1" @ 12"	4-1" @ 12"	4-1" @ 12"	4-1" @ 12"	4-1" @ 12"	4-1" @ 12"	4-3/4" @ 12"	4-3/4" @ 12"	4-3/4" @ 12"	4-3/4" @ 12"	4-3/4" @ 12"	4-3/4" @ 12"	4-3/4" @ 12"	4-1" @ 12"	6-1" @ 12"	4-1" @ 12"	4-1" @ 12"	4-1" @ 12"	4-1" @ 12"	4-1" @ 12"	4-1" @ 12"	4-1" @ 12"	4-1" @ 12"	4-1" @ 12"	4-1" @ 12"	4-1" @ 12"	4-1" @ 12"	4-1" @ 12"	4-1" @ 12"	4-1" @ 12"
STEEL MAT E-W REINFORCING N-S	13-1/2" @ 12"	14-5/8" @ 12"	B.E.W. 6-1/2" @ 12" T.N.S. 4-1/2" @ 12" B.N.S. 11-5/8" @ 12"	B.E.W. 6-1/2" @ 12" T.N.S. 4-1/2" @ 12" B.N.S. 11-5/8" @ 12"	B.E.W. 6-1/2" @ 12" T.N.S. 4-1/2" @ 12" B.N.S. 11-5/8" @ 12"	B.E.W. 6-1/2" @ 12" T.N.S. 4-1/2" @ 12" B.N.S. 11-5/8" @ 12"	B.E.W. 6-1/2" @ 12" T.N.S. 4-1/2" @ 12" B.N.S. 11-5/8" @ 12"	4-1/2" @ 12"	4-1/2" @ 12"	4-1/2" @ 12"	4-1/2" @ 12"	4-1/2" @ 12"	4-1/2" @ 12"	11-5/8" @ 12"	13-1/2" @ 12"	4-1/2" @ 12"	4-1/2" @ 12"	7-1/2" @ 12"	9-1/2" @ 12"	14-5/8" @ 12"	12-5/8" @ 12"	12-5/8" @ 12"	12-5/8" @ 12"	14-5/8" @ 12"	12-5/8" @ 12"	12-5/8" @ 12"	12-5/8" @ 12"	14-5/8" @ 12"	12-5/8" @ 12"	12-5/8" @ 12"
WIDTH X LENGTH EAST & WEST X NORTH & SOUTH	5'-0" x 8'-6"	5'-0" x 8'-6"	3'-10" x 3'-0"	3'-10" x 3'-0"	3'-10" x 3'-0"	3'-10" x 3'-0"	2'-10" x 2'-10"	2'-10" x 2'-10"	2'-10" x 2'-10"	2'-10" x 2'-10"	2'-10" x 2'-10"	2'-10" x 2'-10"	2'-10" x 2'-10"	5'-0" x 4'-0"	6'-0" x 4'-0"	3'-0" x 4'-9"	3'-0" x 4'-9"	3'-0" x 4'-9"	4'-0" x 3'-0"	5'-9" x 5'-9"	5'-6" x 5'-6"	5'-6" x 5'-6"	5'-6" x 5'-6"	5'-6" x 5'-6"	5'-6" x 5'-6"	5'-6" x 5'-6"	5'-6" x 5'-6"	5'-6" x 5'-6"	5'-6" x 5'-6"	5'-6" x 5'-6"
THICKNESS	18"	18"	16"	16"	16"	12"	10"	10"	10"	10"	10"	10"	10"	14"	16"	14"	14"	14"	14"	16"	16"	16"	16"	16"	16"	16"	16"	16"	16"	16"
ELEVATION TOP OF FOOTING	14.00	14.00	12.83	11.83	11.83	11.00	11.83	12.33	12.33	12.33	12.33	12.33	12.33	13.17	13.33	12.67	12.67	12.17	12.17	14.00	13.50	13.00	12.50	12.00	12.00	12.00	12.00	12.00	12.00	12.00

APPROVED: *S. Miller*
STATE HIGHWAY ENGINEER

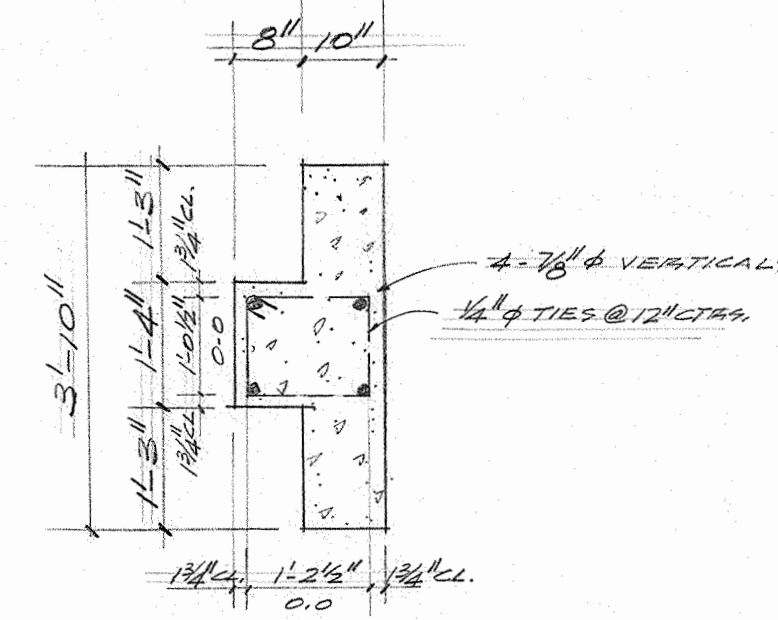


MAINTENANCE SHOP BUILDING
FOR THE STATE OF IDAHO
DEPARTMENT OF HIGHWAYS
STRAWBERRY GLENN, ADACOUNTY, IDAHO
DATE: *10/1/53*
WAYLAND FENNEL
C.W. WAYLAND
JACK T. WOODMANSEE-ASST.
ARCHITECTS

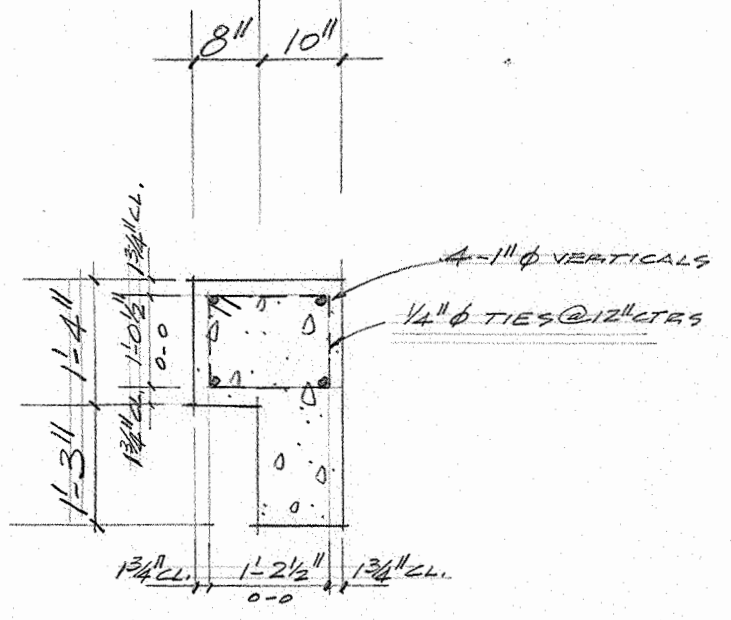
NOTE:-
TYPICAL WALL STEEL NOT SHOWN IN EXTERIOR COLUMN SECTIONS



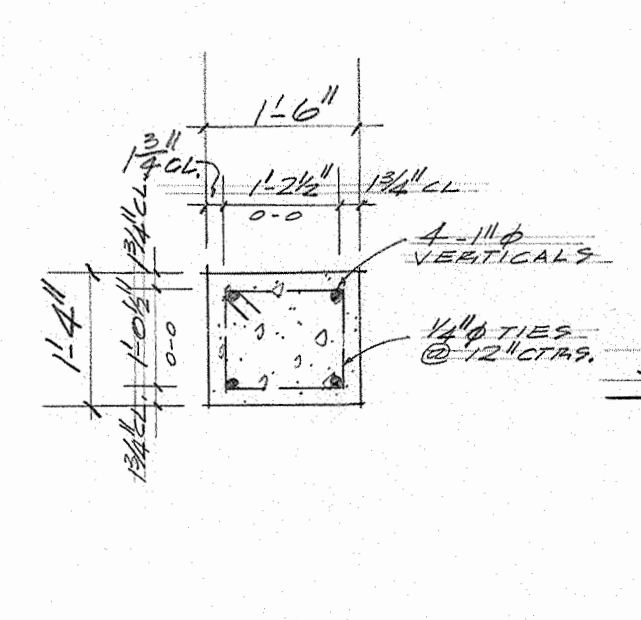
SECTION F-F



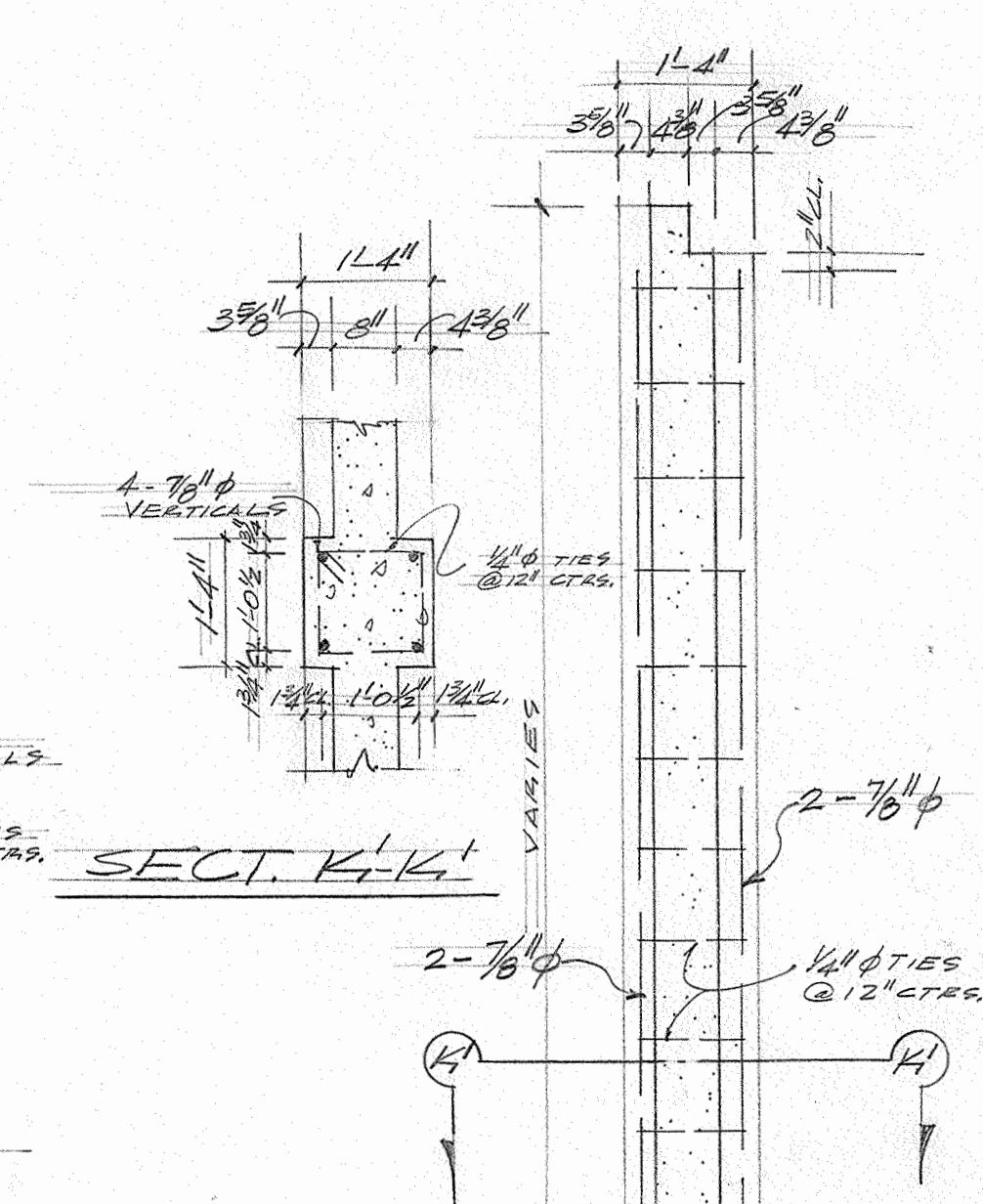
SECTION G-G



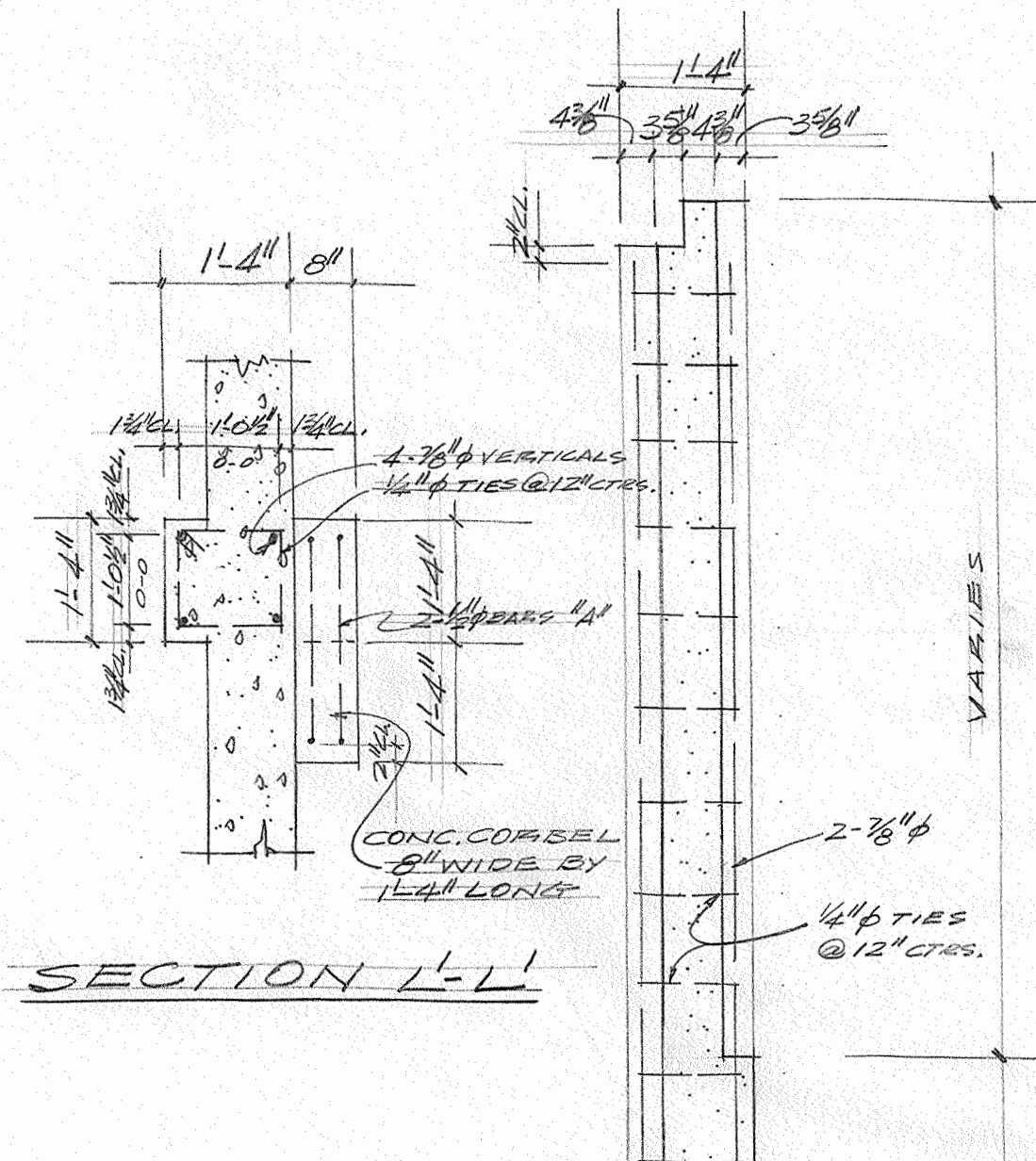
SECTION H-H



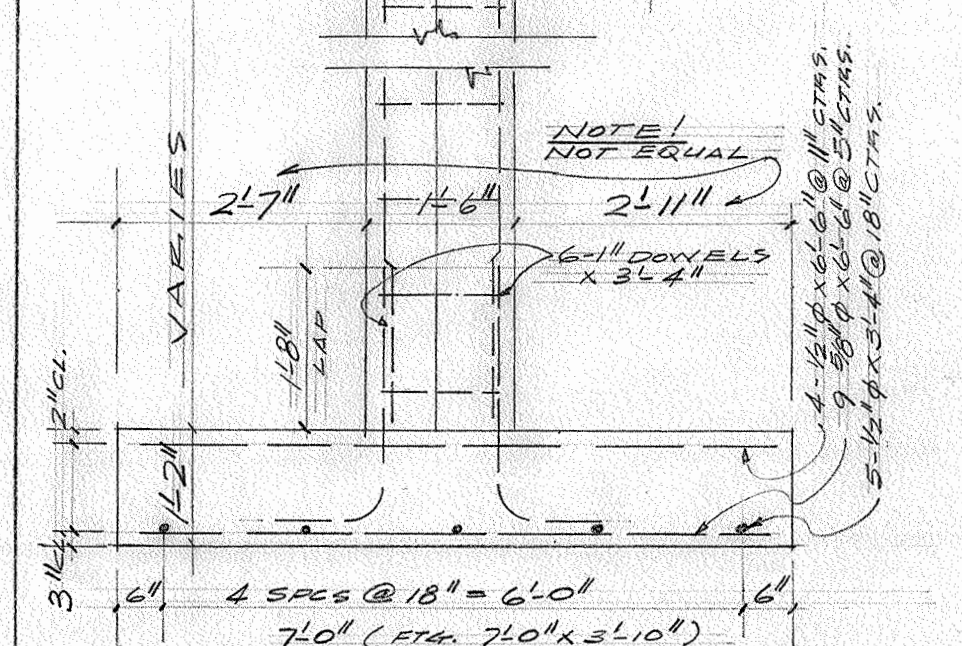
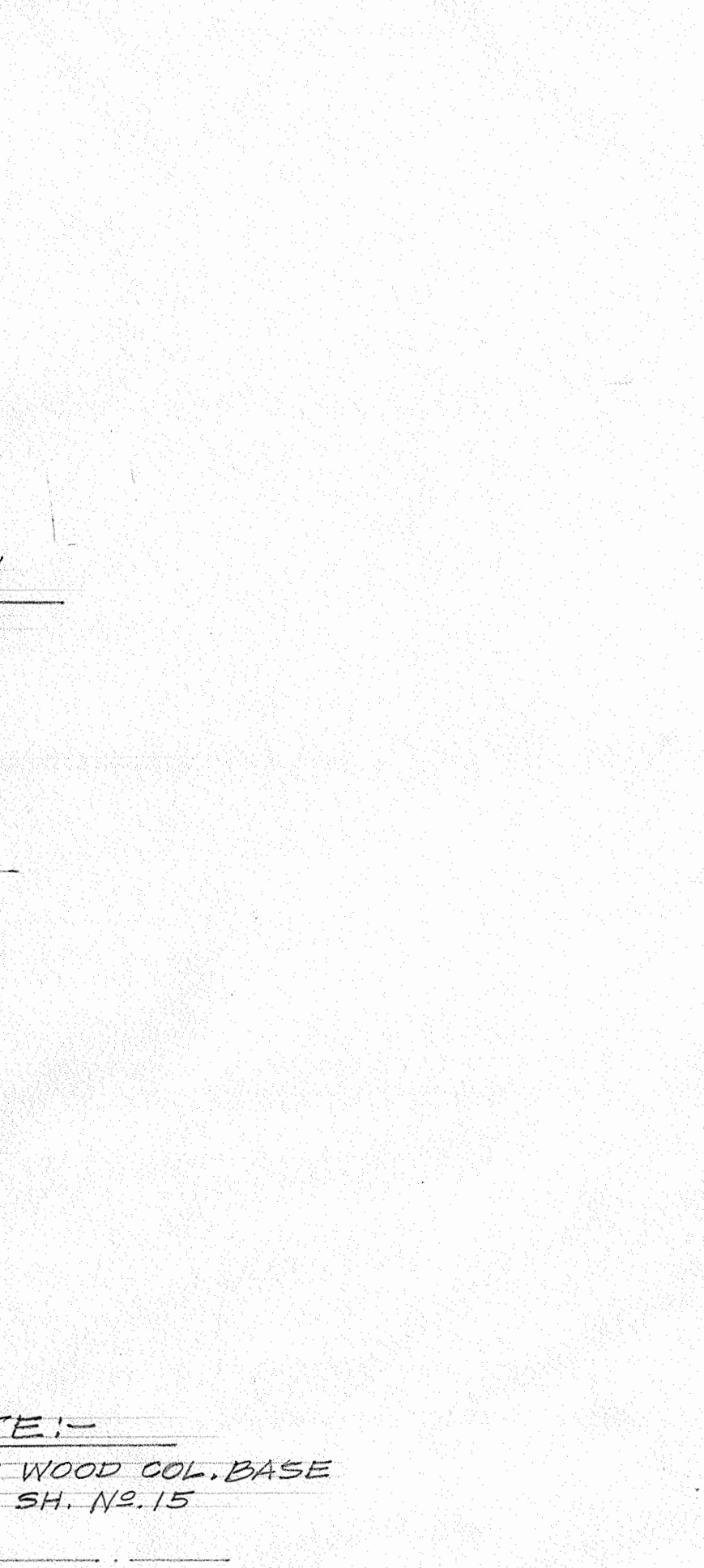
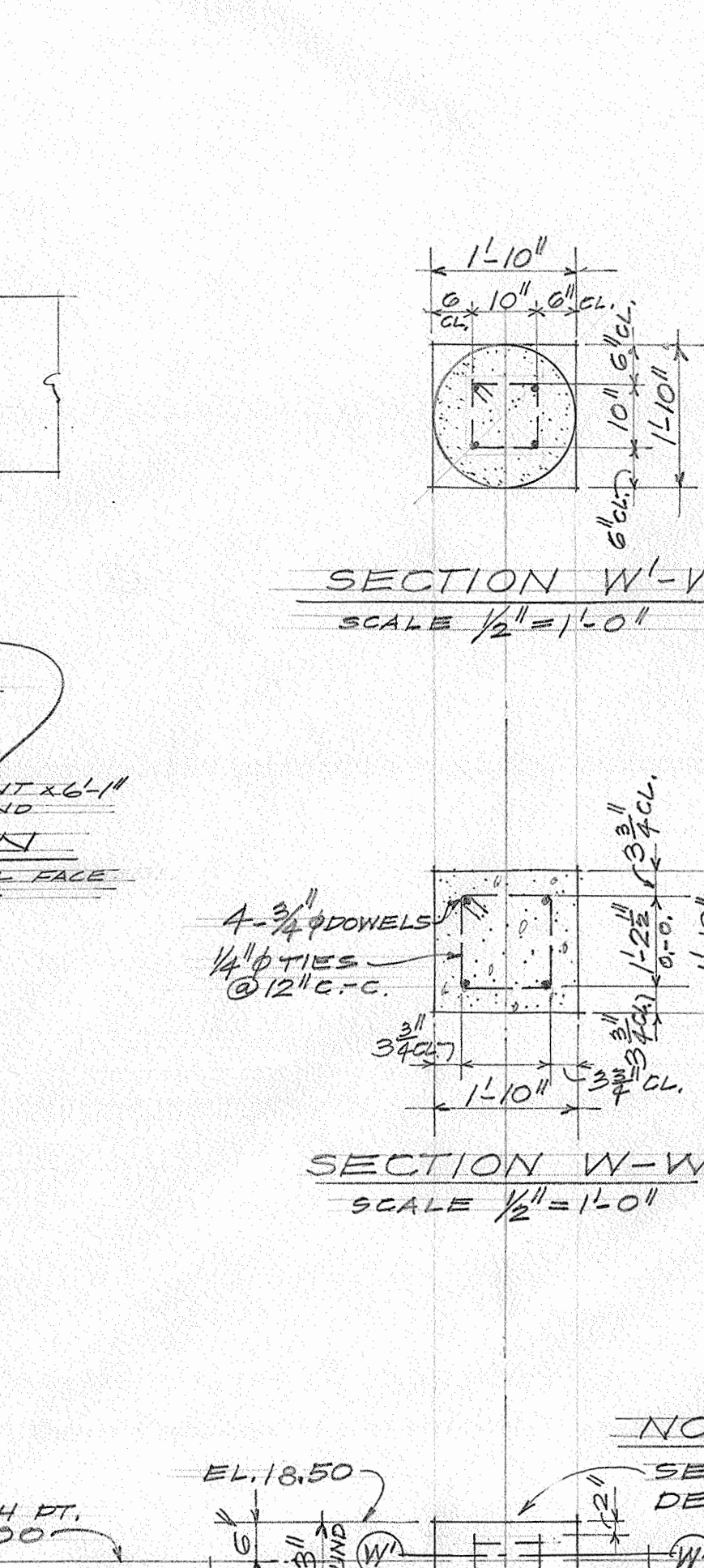
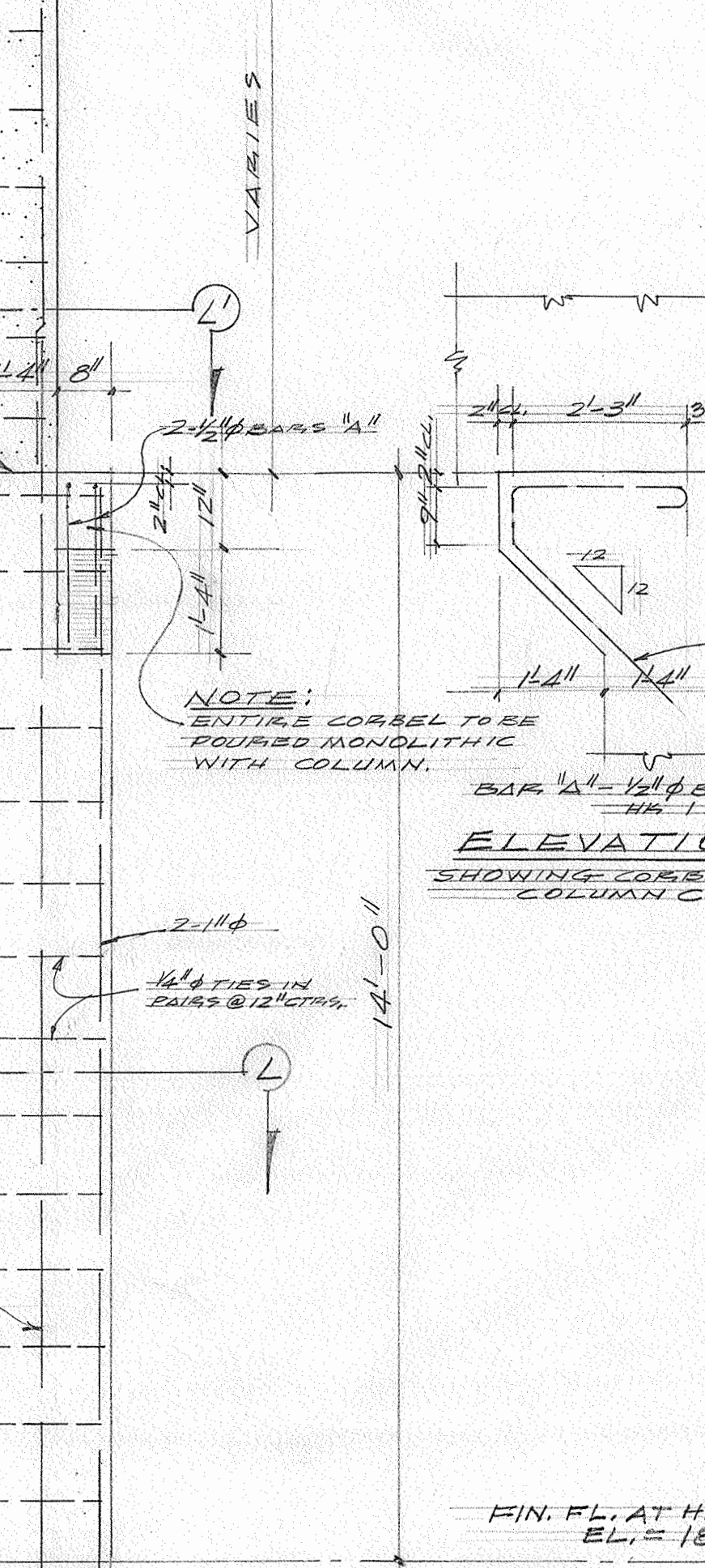
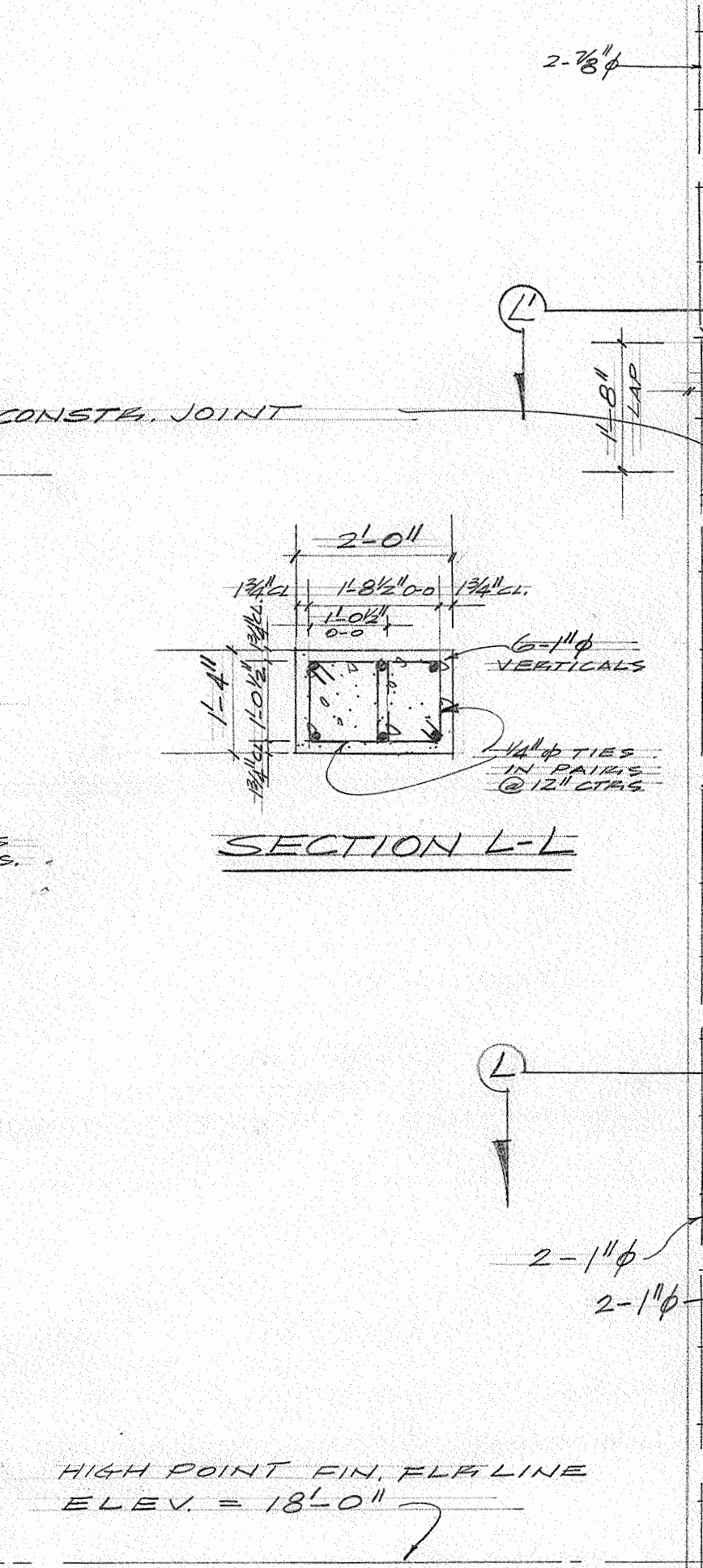
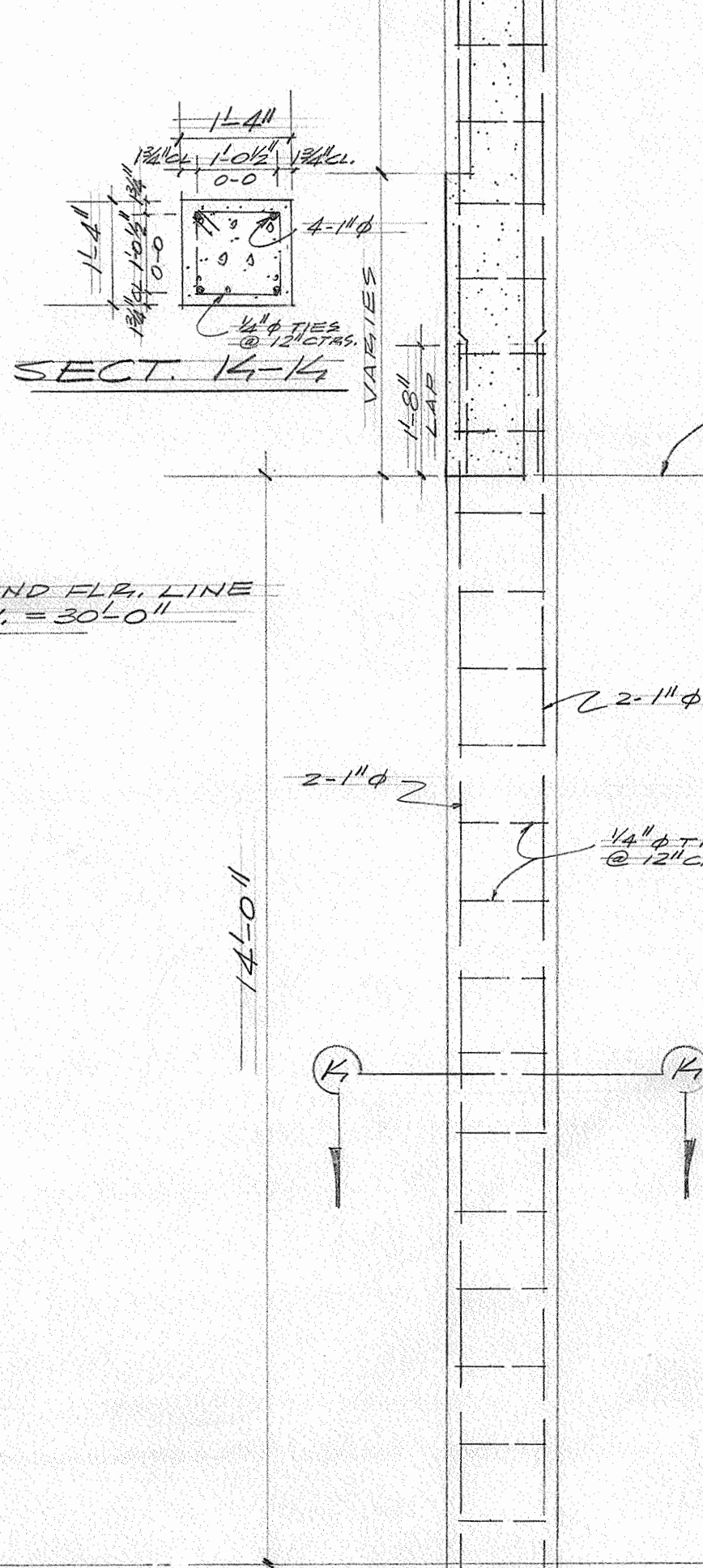
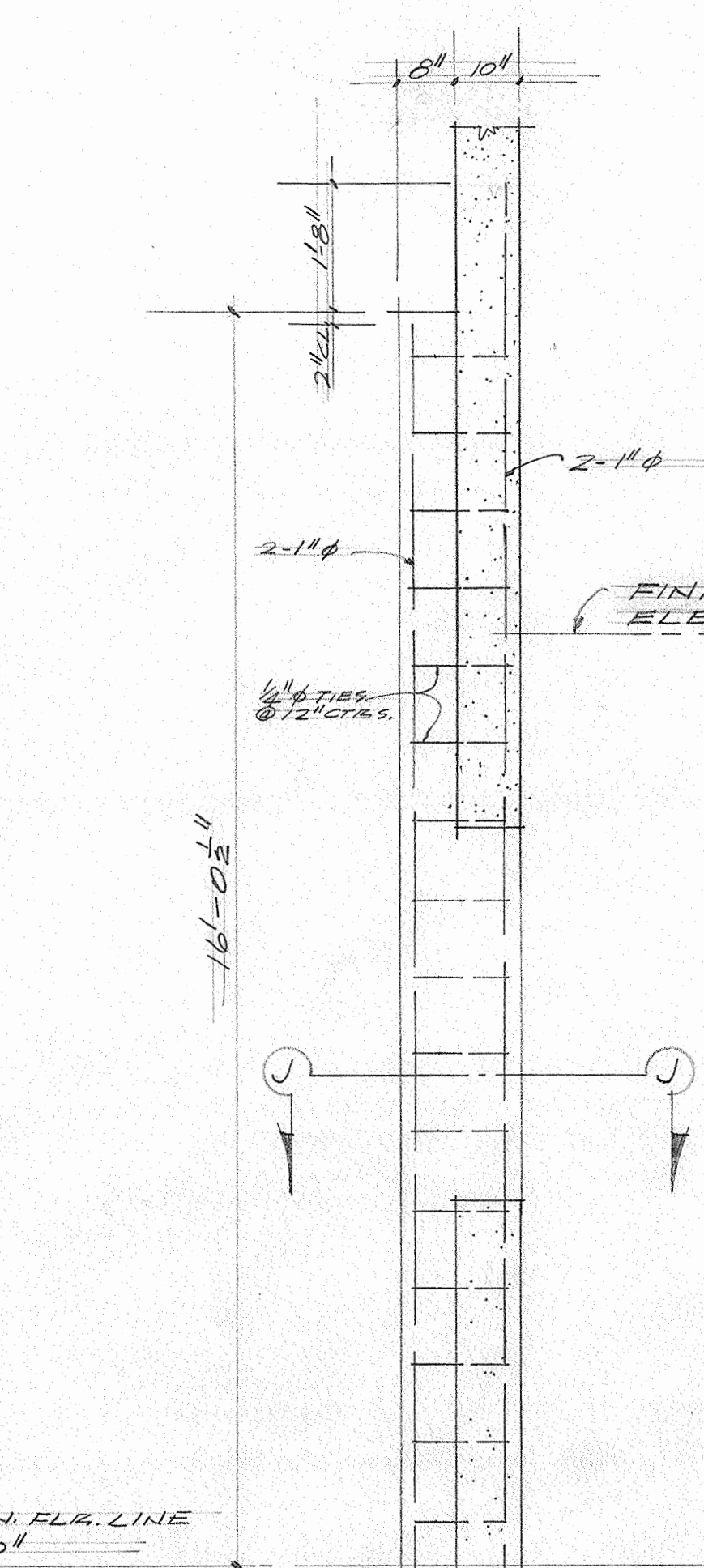
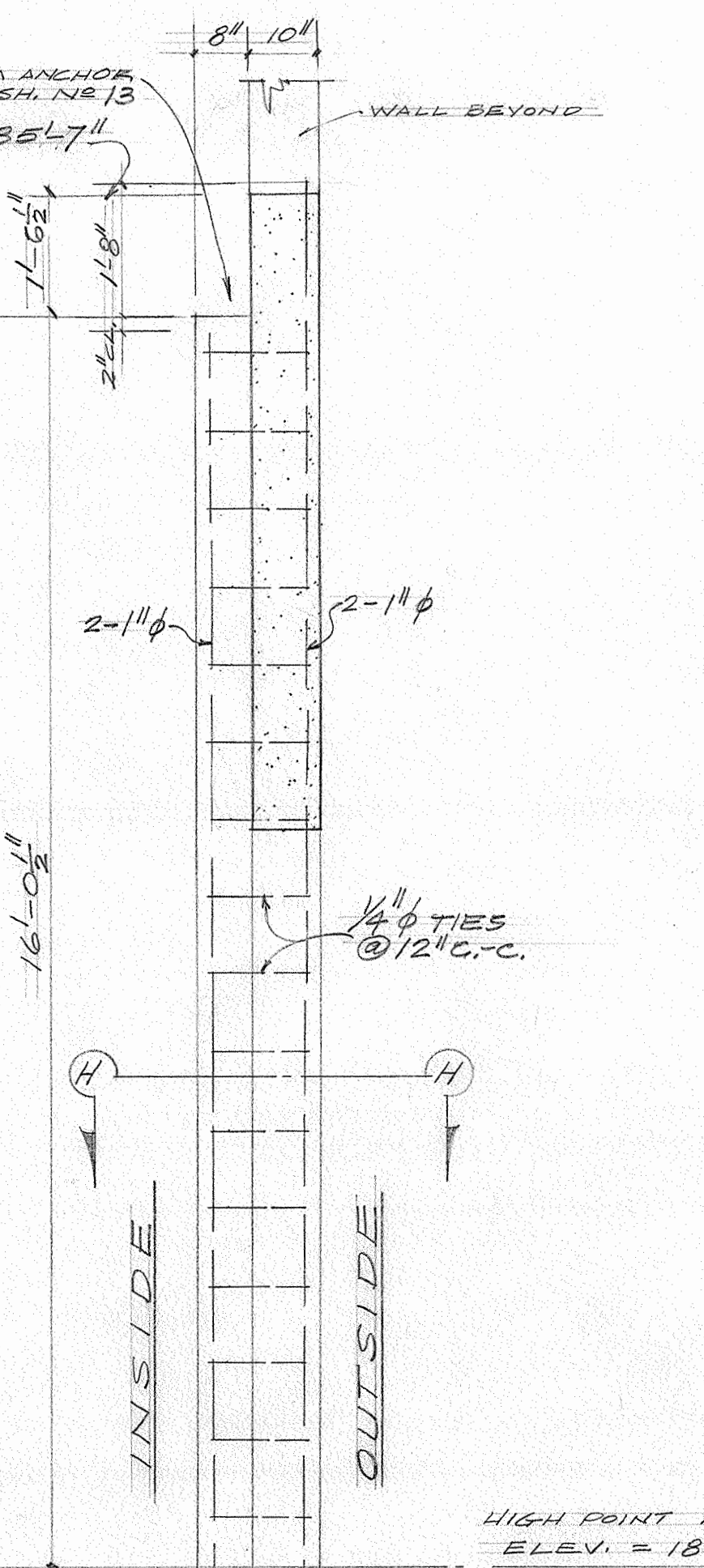
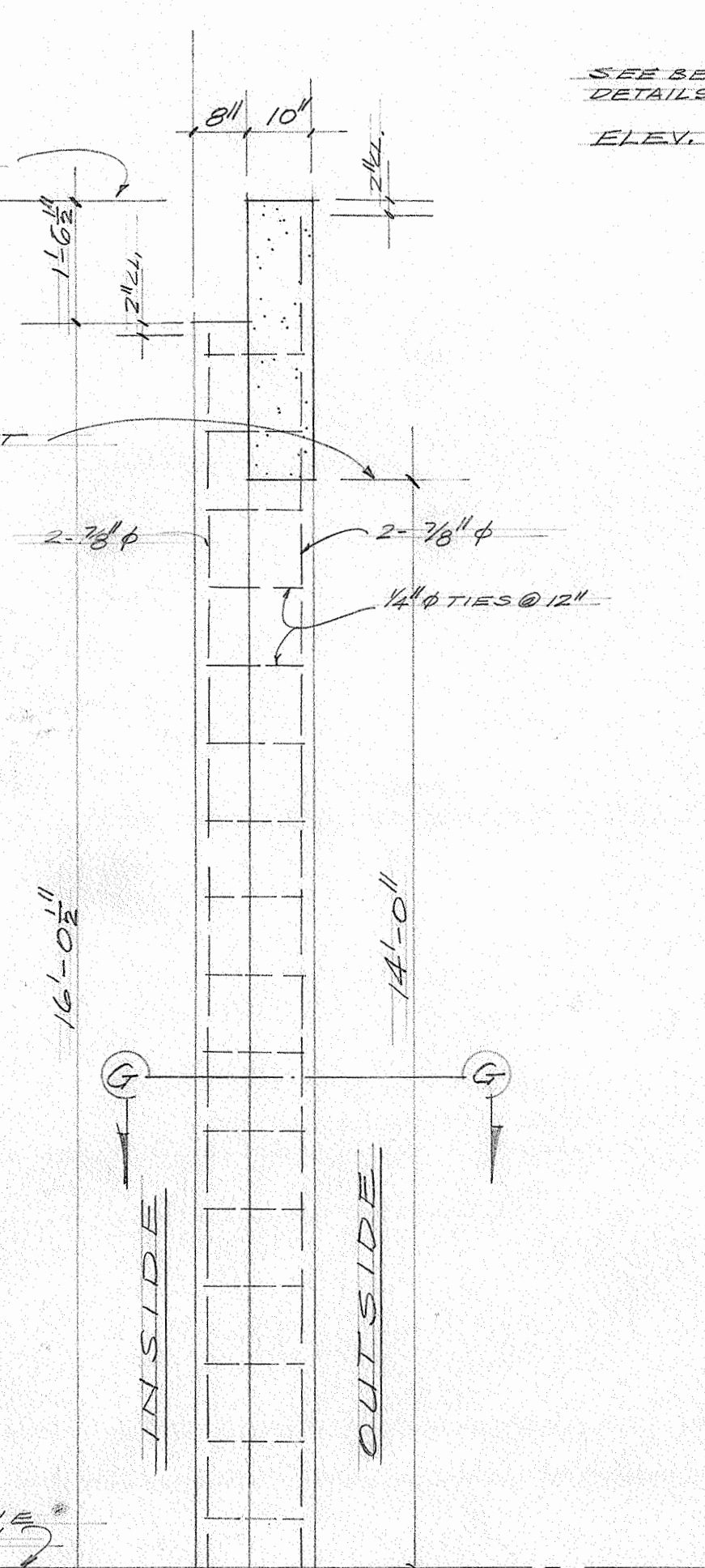
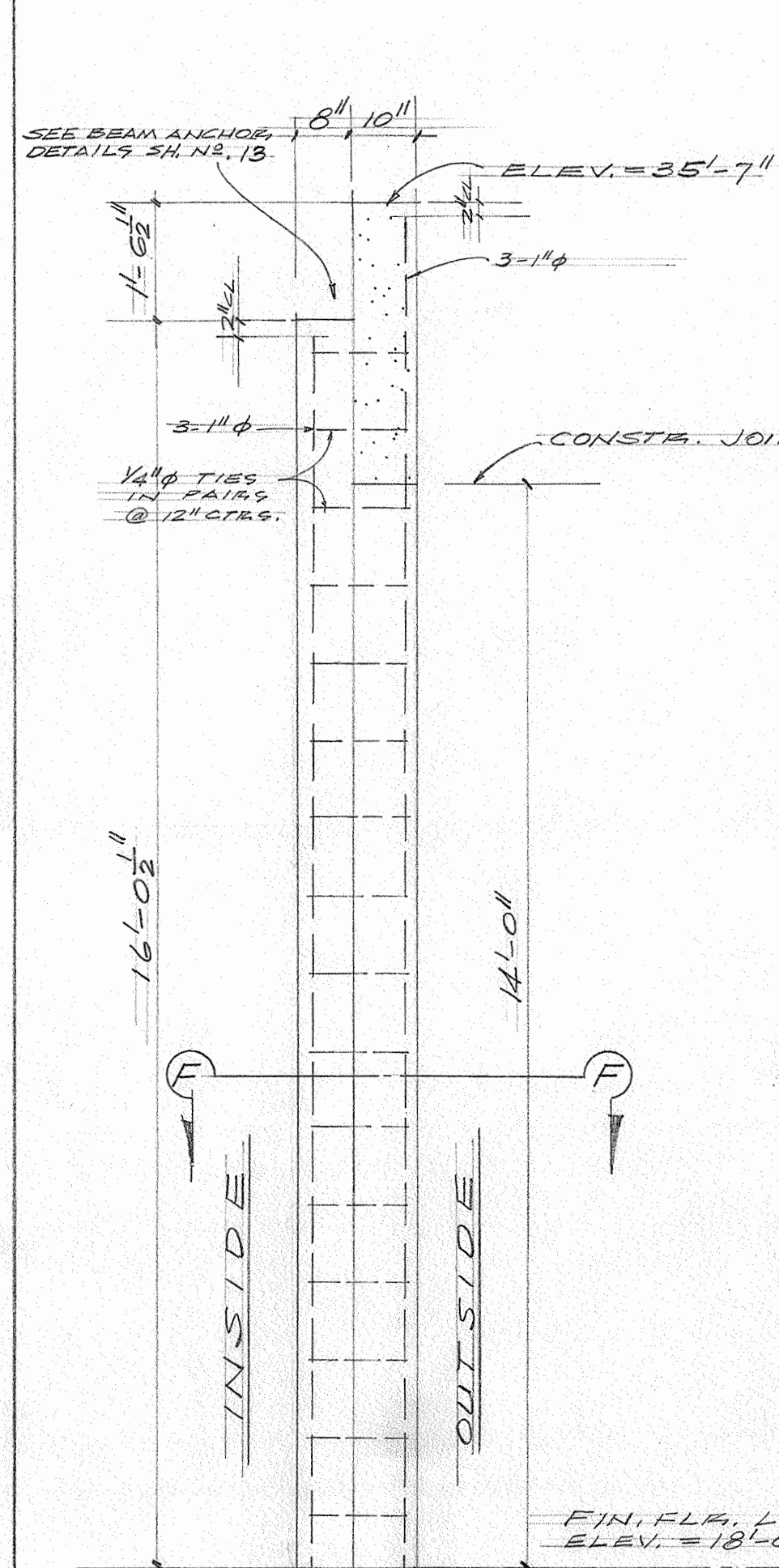
SECTION J-J



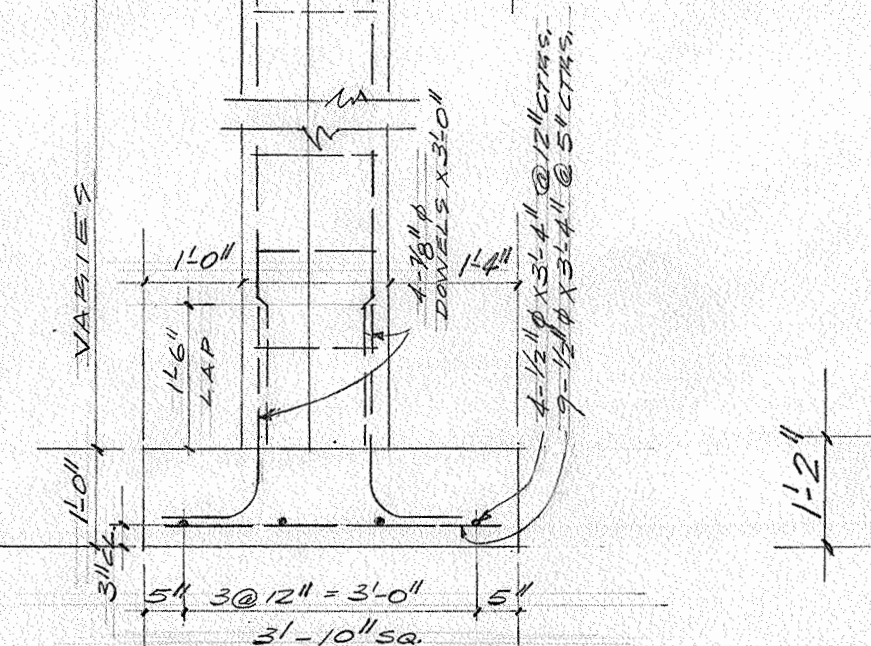
SECTION K-K



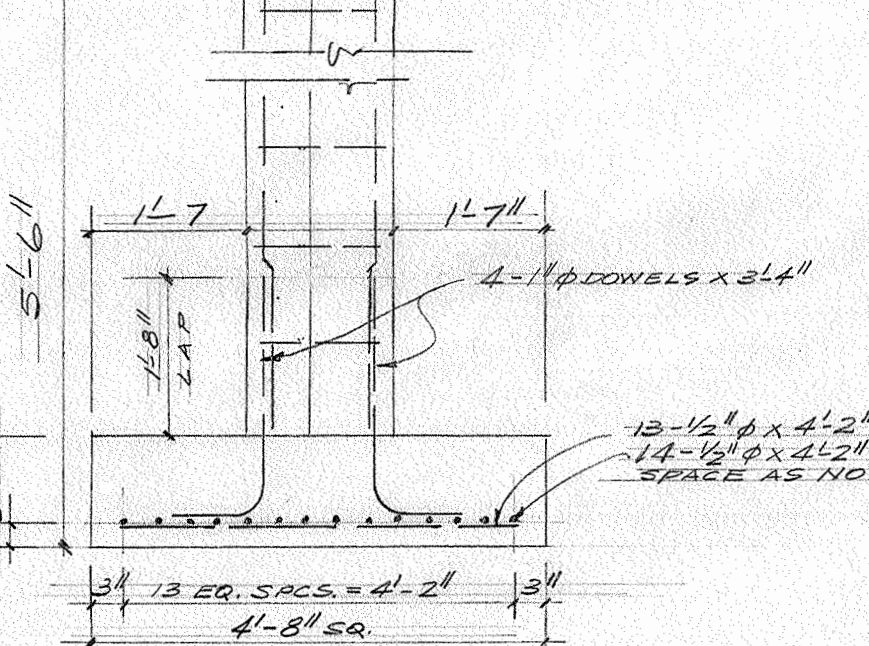
SECTION L-L



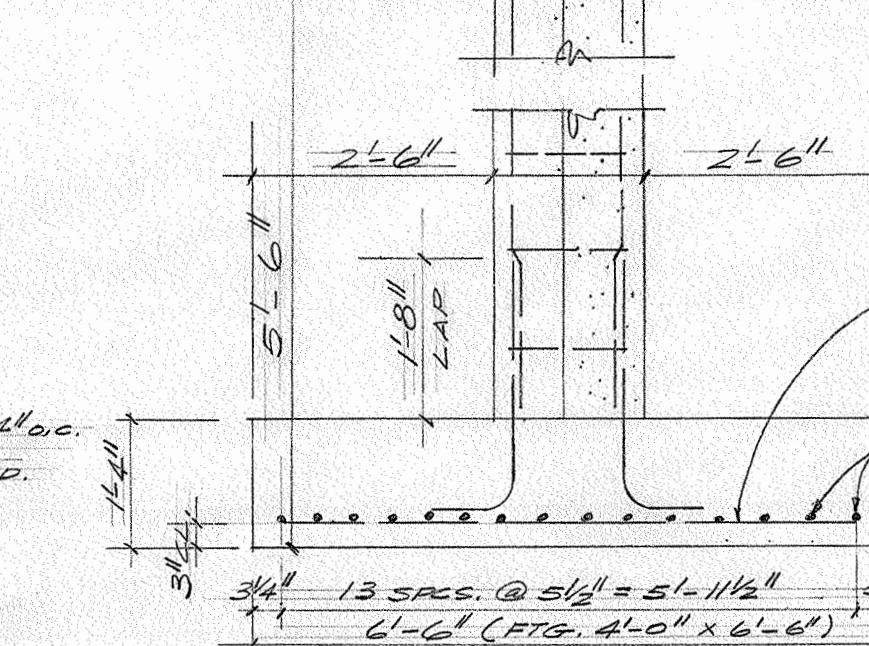
TYPICAL EXTERIOR COL. & FTG. FOR COLS. N3-N4-N5-N6-N7-N8 S3-S4-S5.



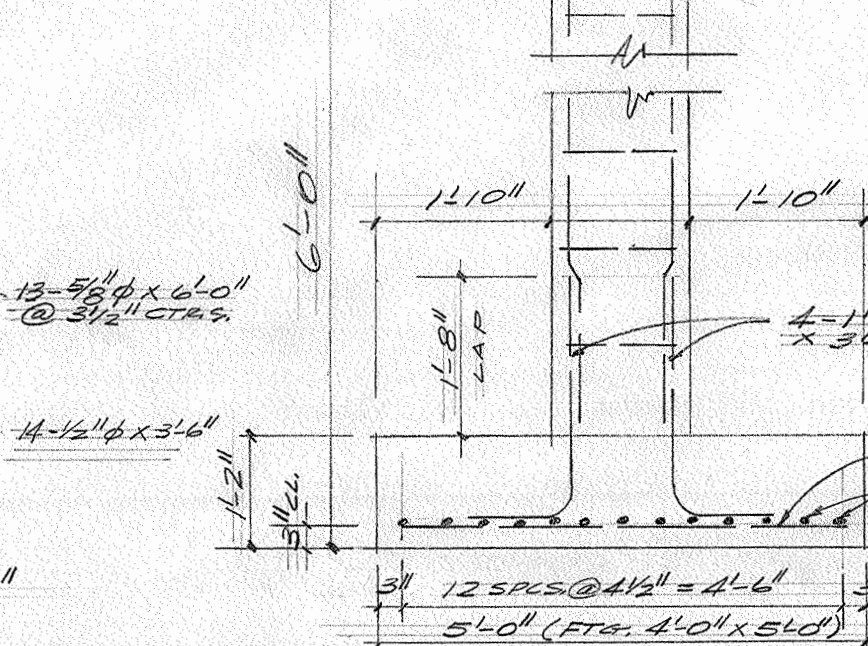
TYP. EXTERIOR COL. & FTG. FOR COLS. N1-N2-S1-S2



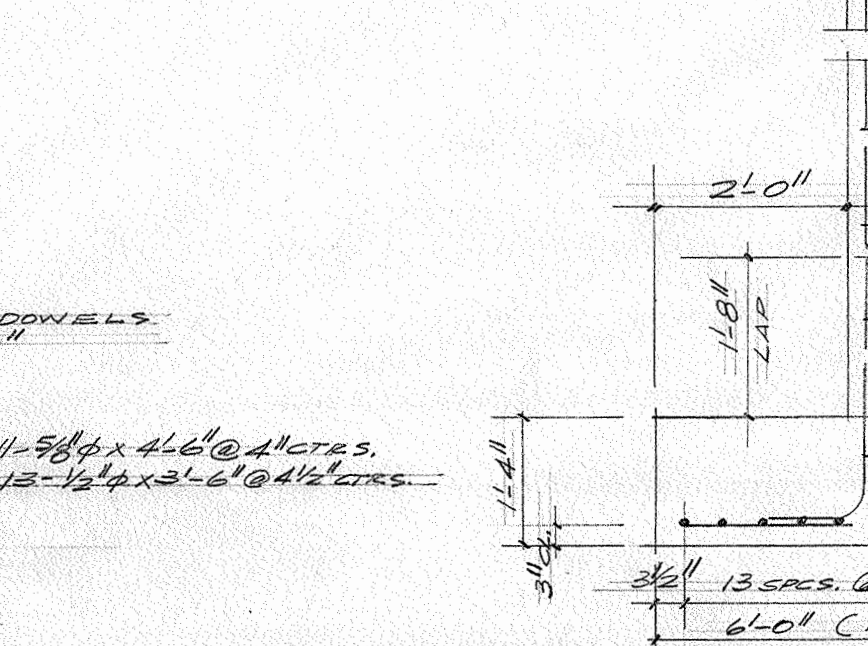
COLUMN & FOOTING S6



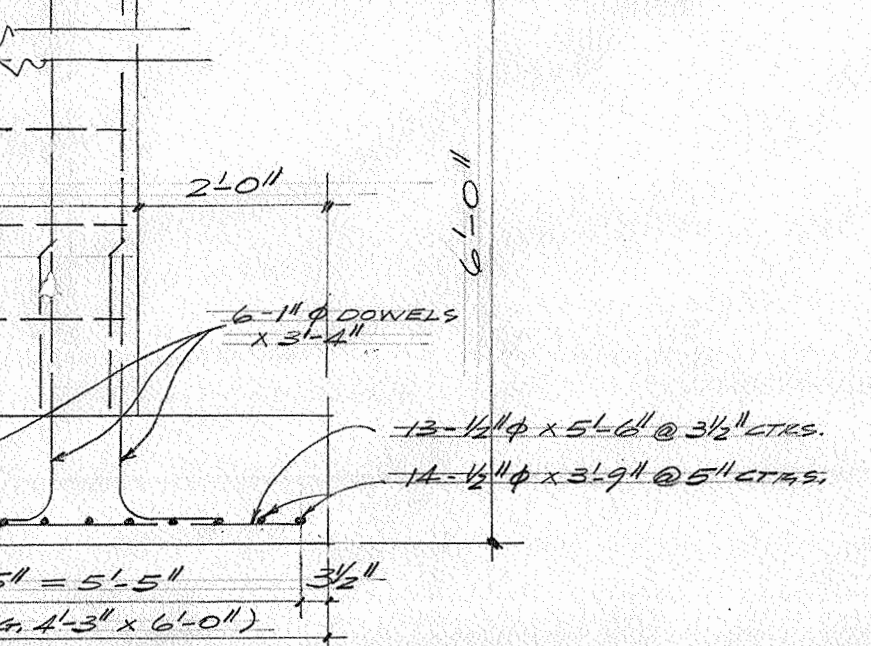
COLUMN & FOOTING S7



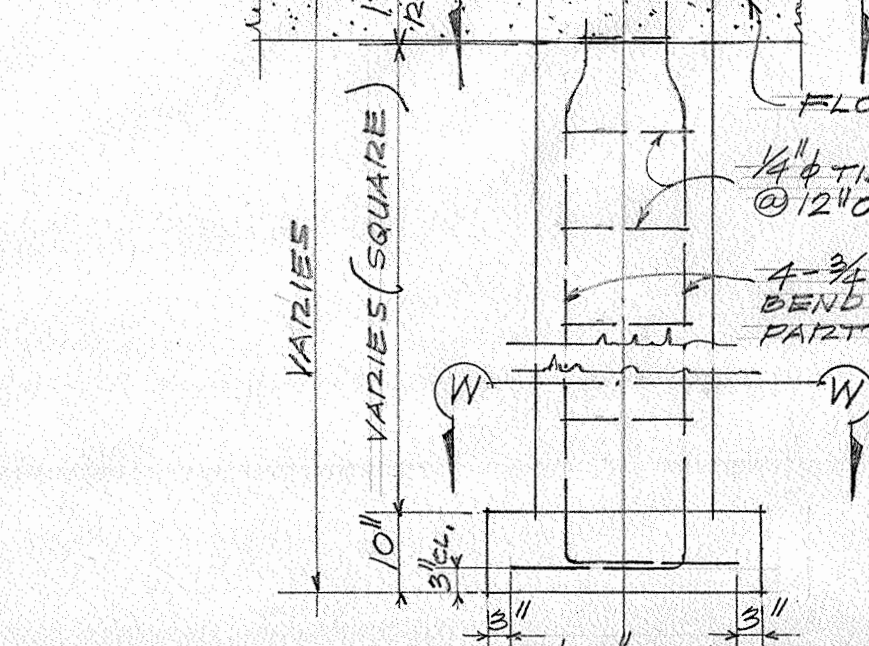
COLUMN & FOOTING C9 LOOKING NORTH



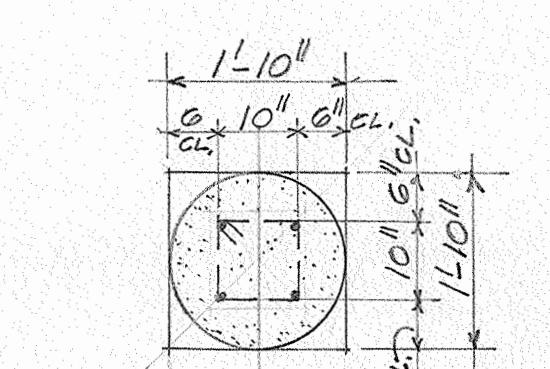
COLUMN & FOOTING C14 LOOKING NORTH



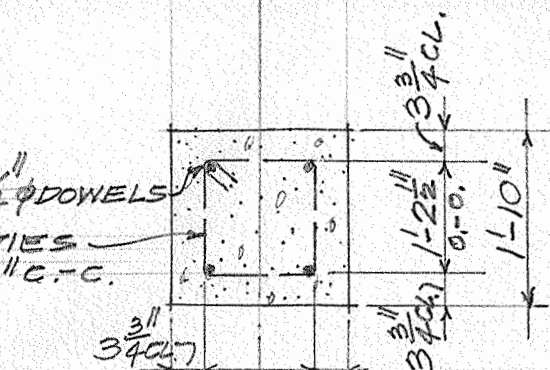
COLUMN & FOOTING C14 SHOWING CRANE



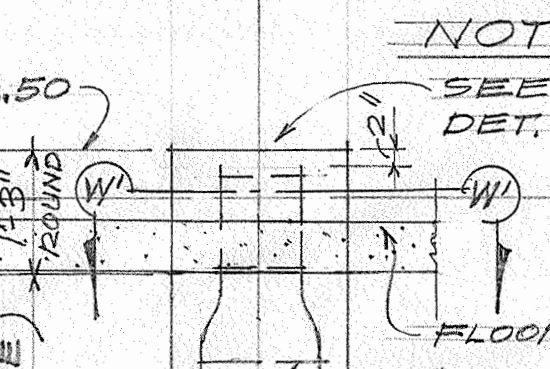
COLUMNS & FOOTINGS C3-C4-C5-C6-C7-C8 LOOKING WEST



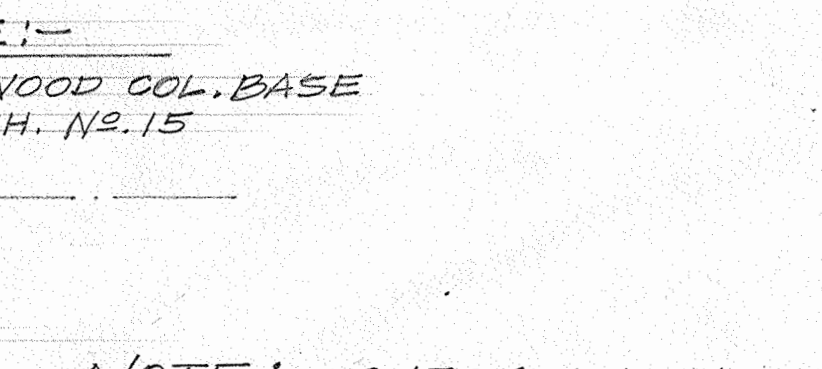
SECTION W-W SCALE 1/2" = 1'-0"



SECTION W-W SCALE 1/2" = 1'-0"



ELEVATION SHOWING CORBEL FACE COLUMN C14



ELEVATION SHOWING CORBEL FACE COLUMN C14

NOTE:-
SEE WOOD COL. BASE DET. SH. NO. 15

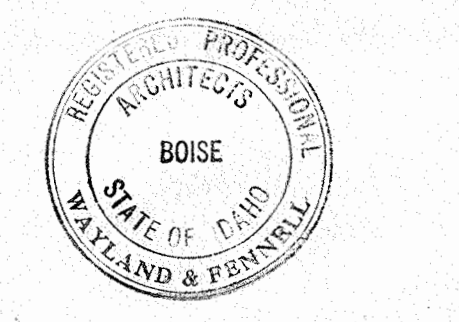
NOTE: CHECK WITH SCHEDULES.

APPROVED: [Signature]
STATE HIGHWAY ENGINEER

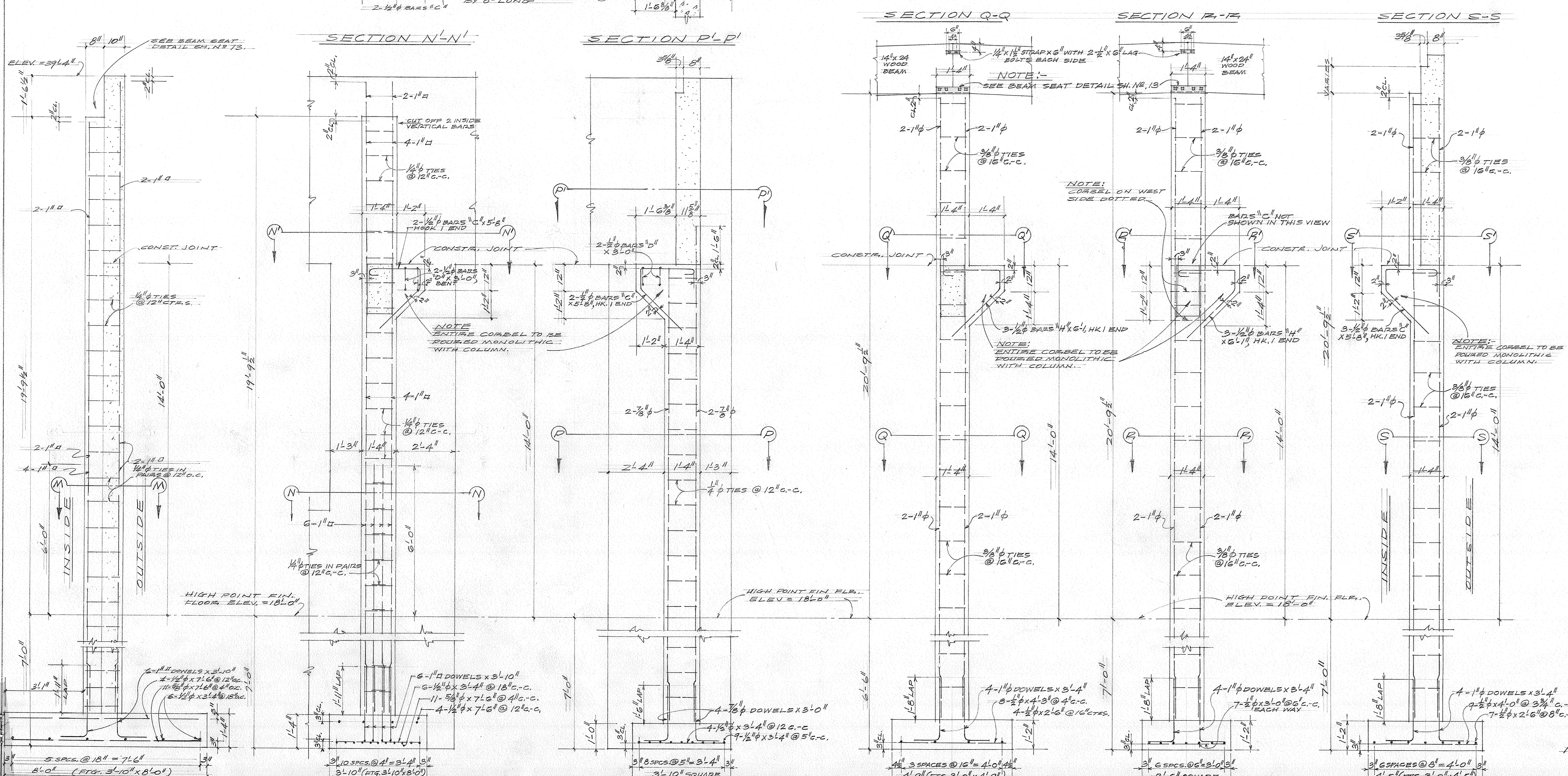
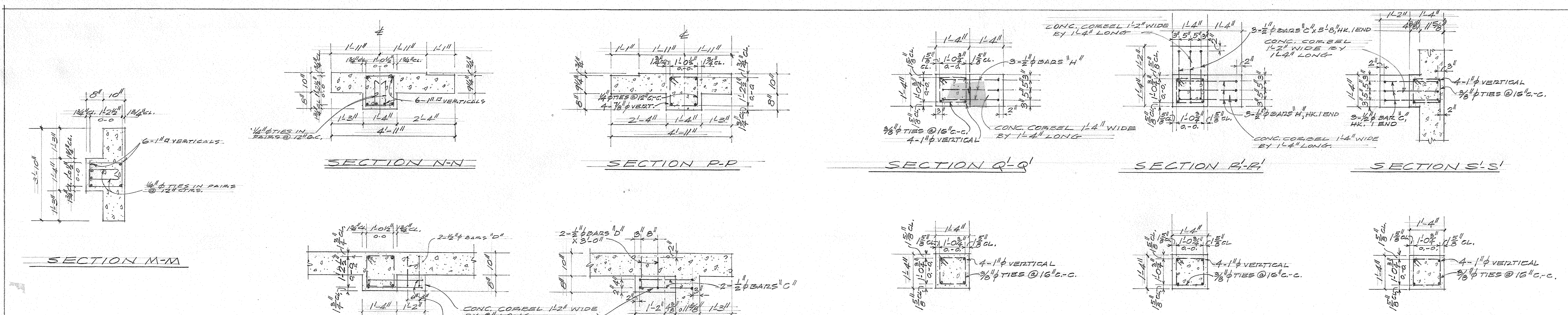
MAINTENANCE SHOP BUILDING
FOR THE STATE OF IDAHO
DEPARTMENT OF HIGHWAYS
STRAWBERRY GLENN, ADA COUNTY, IDAHO

DATE: OCT 1968
WAYLAND & FENNELLS
C.V. WAYLAND
JACK T. WOODMANSEE ASSOCIATE ARCHITECTS
BOISE IDAHO

SHEET **23**



ALL COLUMN AND FOOTING DETAILS - SCALE 1/2" = 1'-0"



COLUMNS & FOOTINGS - N 15 N 16

INSIDE ELEV. COL. & FTG. N 17 SHOWING CORBEL FOR 4000# CRANE

INSIDE ELEV. COL. & FTG. N 18 SHOWING CORBEL FOR 4000# CRANE

COLUMNS & FOOTINGS - C 15 - C 16 SHOWING CORBEL FOR 2000# CRANE

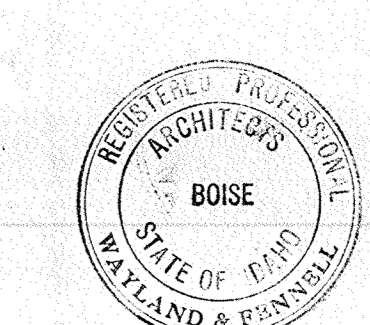
COLUMN & FOOTING - C 17 SHOWING CORBEL FOR 2000# CRANE AND 4000# CRANE

COLUMN & FOOTING - C 18 SHOWING CORBEL FOR 4000# CRANE

NOTE: ALL COLUMN & WALL DETAILS - SCALE 1/2" = 1'-0"

NOTE: CHECK WITH SCHEDULE.

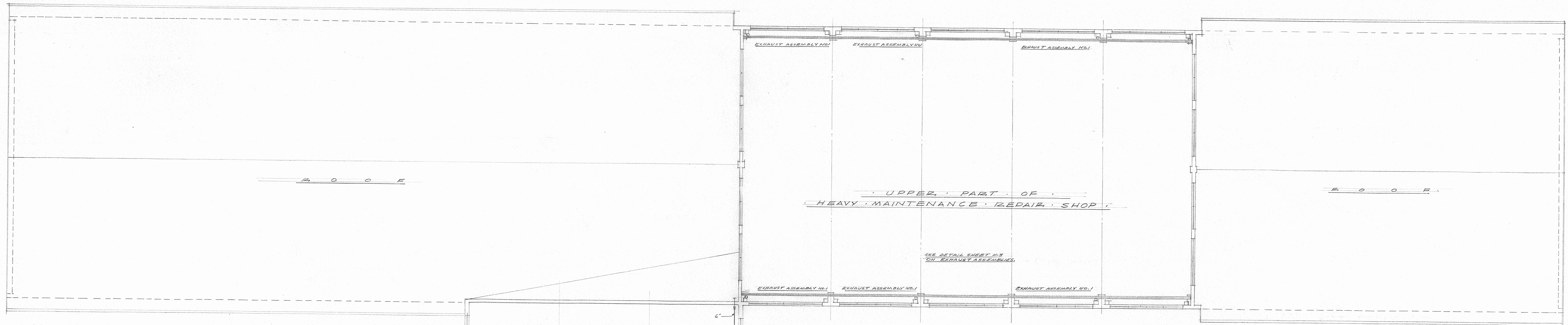
APPROVED: *[Signature]*
STATE HIGHWAY ENGINEER



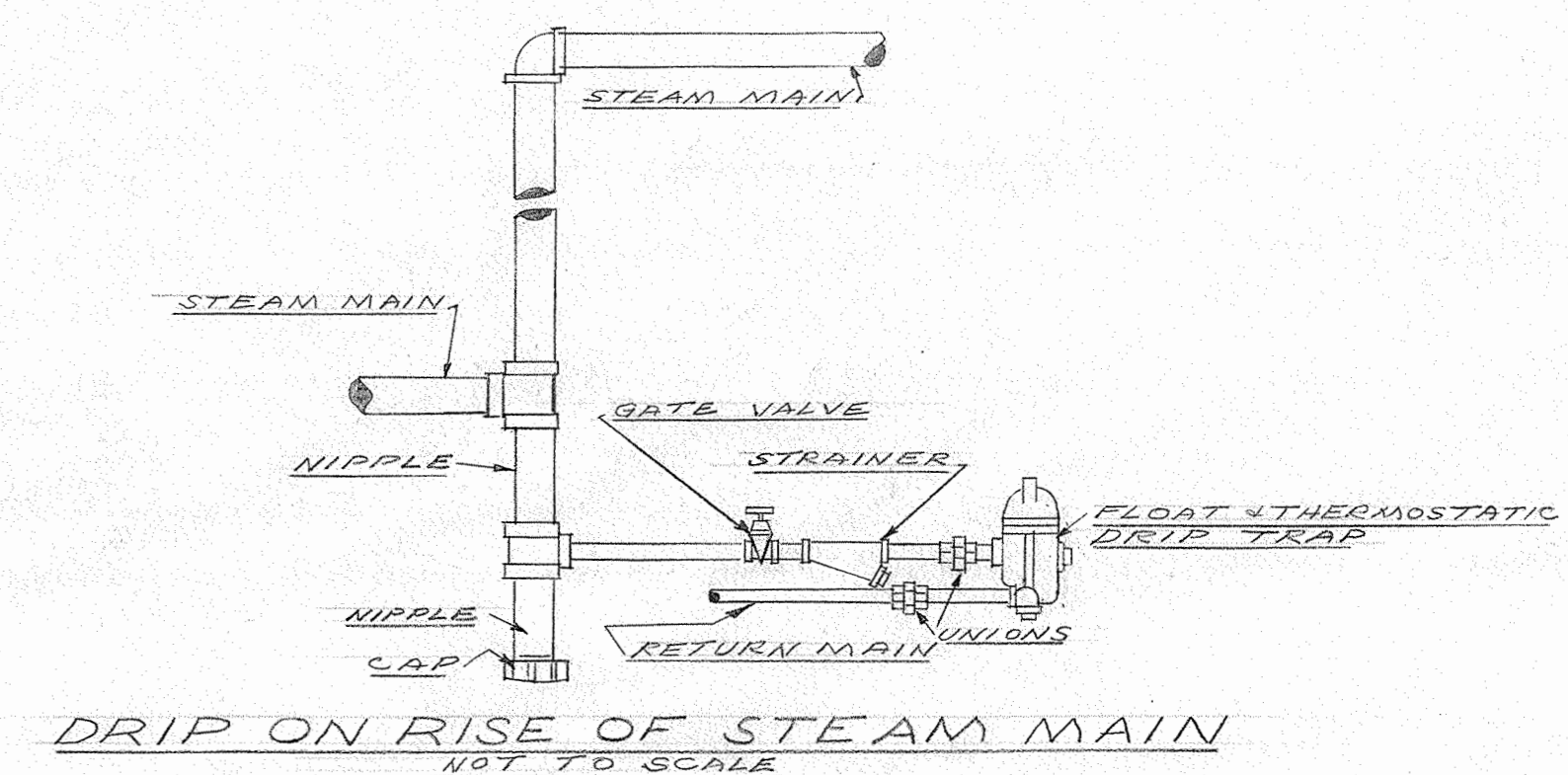
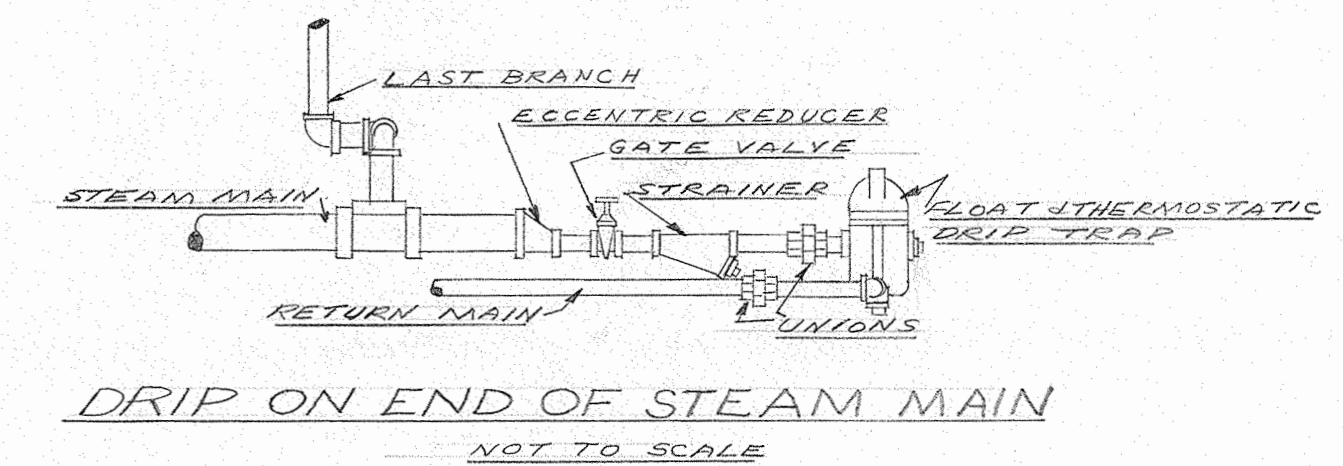
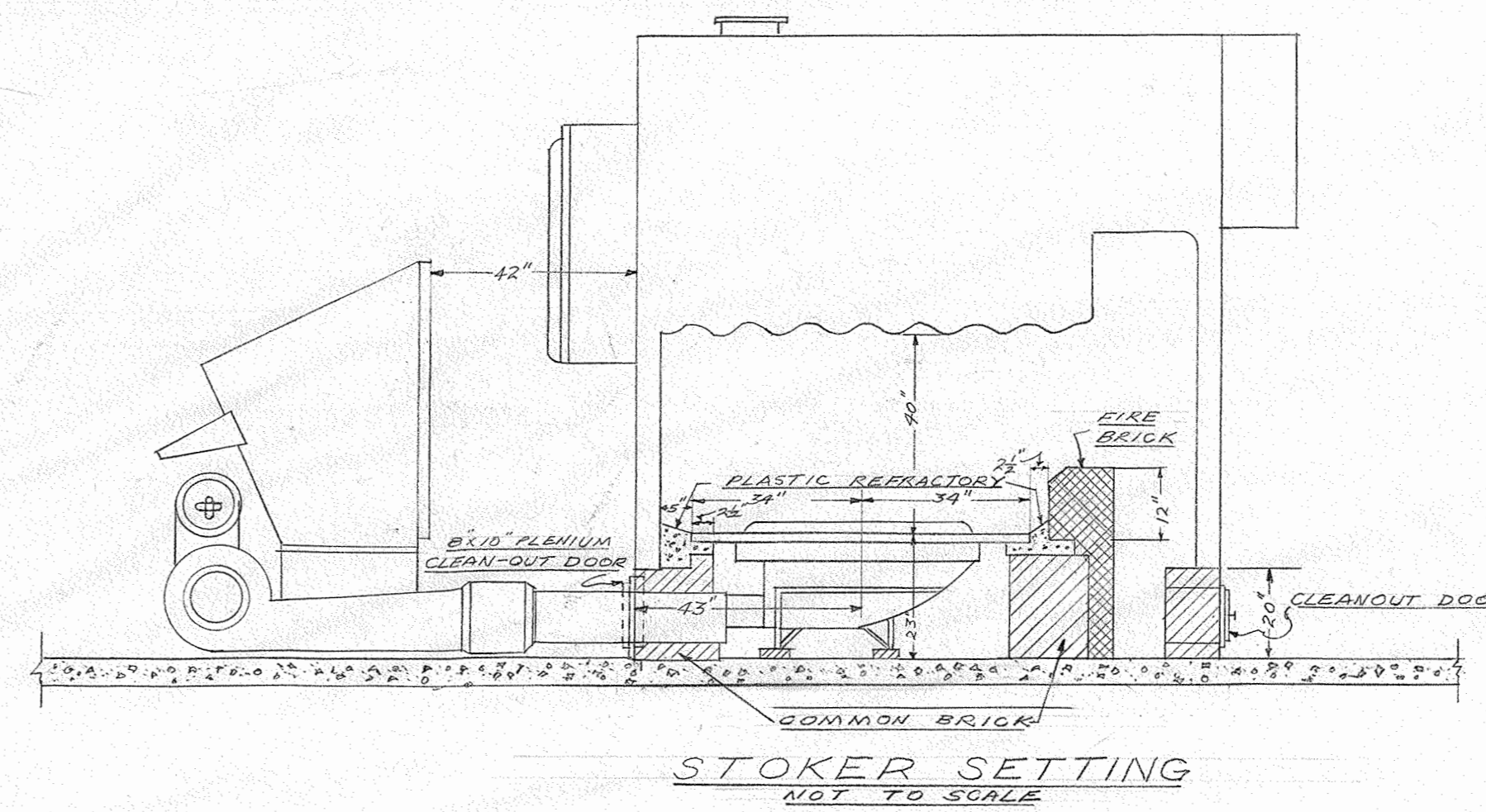
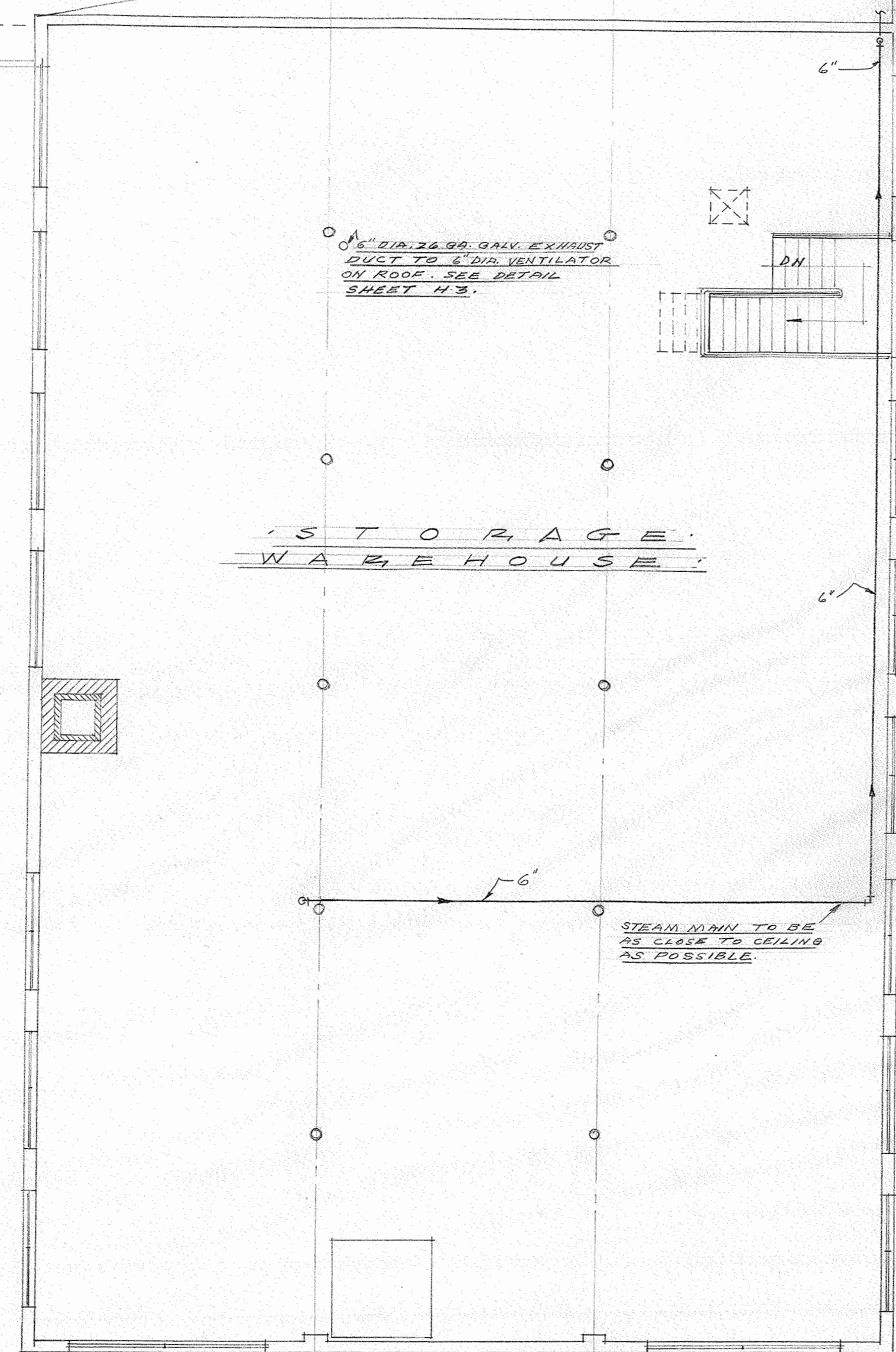
MAINTENANCE SHOP BUILDING
FOR THE STATE OF IDAHO
DEPARTMENT OF HIGHWAYS
STRAWBERRY GLENN, ADA COUNTY, IDAHO

DATE: WAYLAND & FENNEL
OCT. C.W. WAYLAND C.V. WAYLAND
1953 JACK T. WOODMANSEE ASSOC. ARCHITECTS BOISE IDAHO

SHEET 24

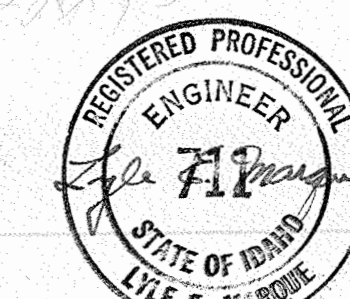
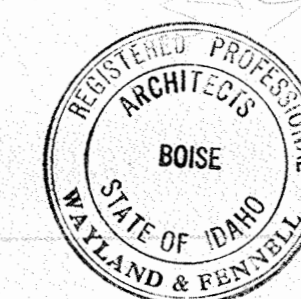


LEGEND	
HEATING	
STEAM SUPPLY	—
CONDENSATE RETURN	- - -
VACUUM PUMP DISCHARGE	—○—○—
MAKE-UP WATER	—○—
GATE VALVE	⊕
GLOBE VALVE	⊙
AIR CONTROLLED VALVE	⊙
CHECK VALVE	⊙
THERMOSTAT	⊙
ECCENTRIC REDUCER	⊙
FLOAT & THERMOSTATIC TRAP	⊙
GRADE ARROW	↗
UNIT HEATER SPEED CONTROLLER	⊙



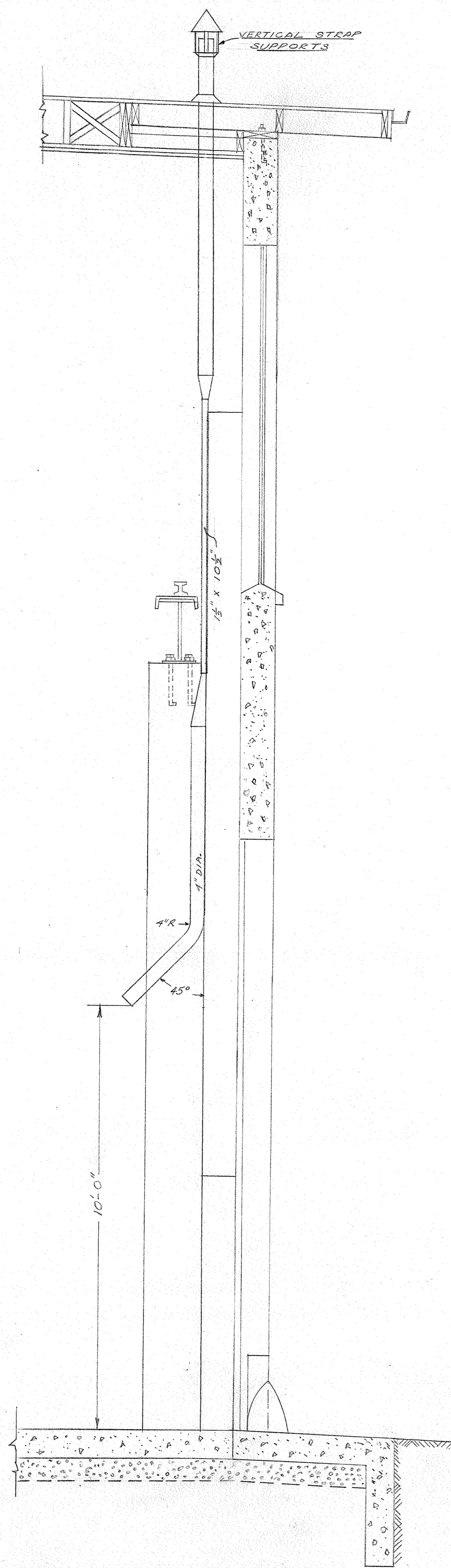
SECOND FLOOR HEATING PLAN
SCALE 1/8" = 1'-0"

APPROVED: *J. Miller*
STATE HIGHWAY ENGINEER

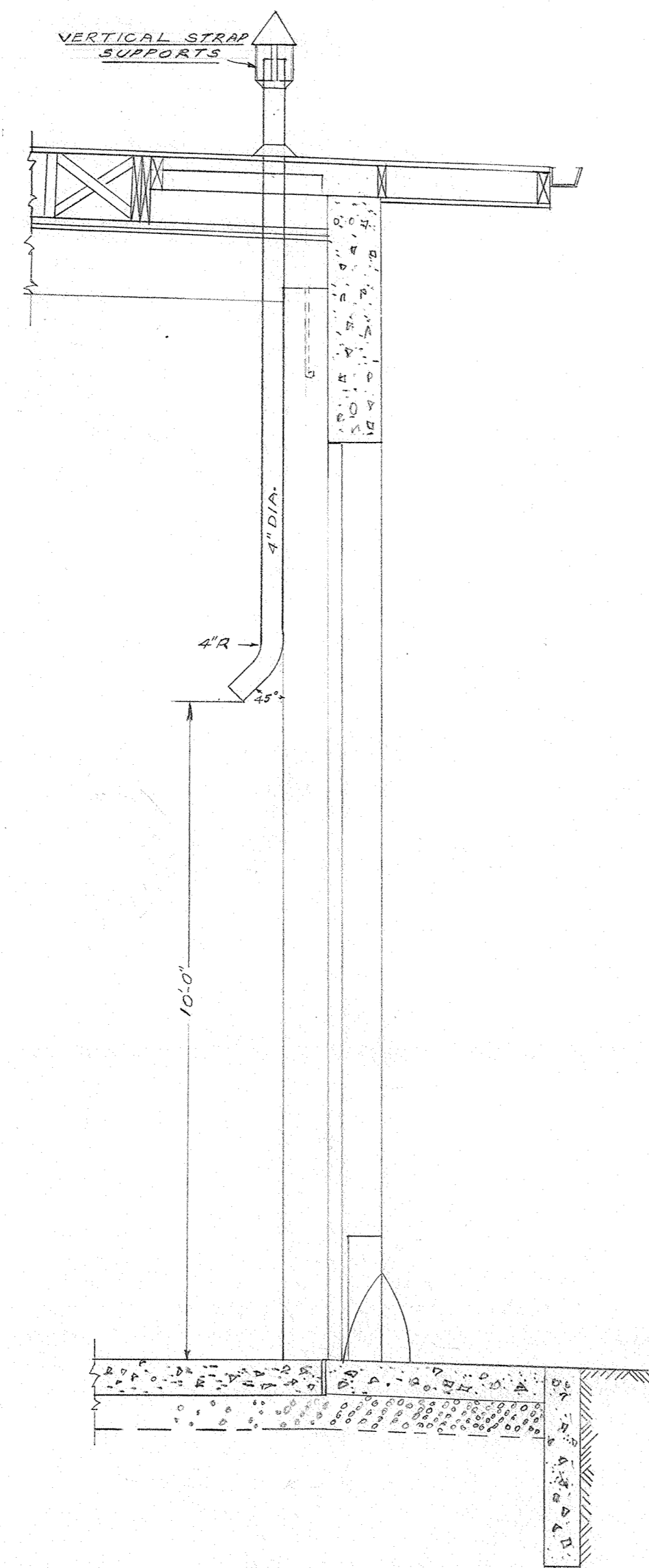


MAINTENANCE SHOP BUILDING
FOR THE STATE OF IDAHO
DEPARTMENT OF HIGHWAYS
STRAWBERRY GLENN, ADA COUNTY, IDAHO
DATE: WAYLAND & FENNEL
DCT: C.W. WAYLAND C.V. WAYLAND
1953 JACK T. WOODMANSEE - ASSOC.
ARCHITECTS
BOISE IDAHO

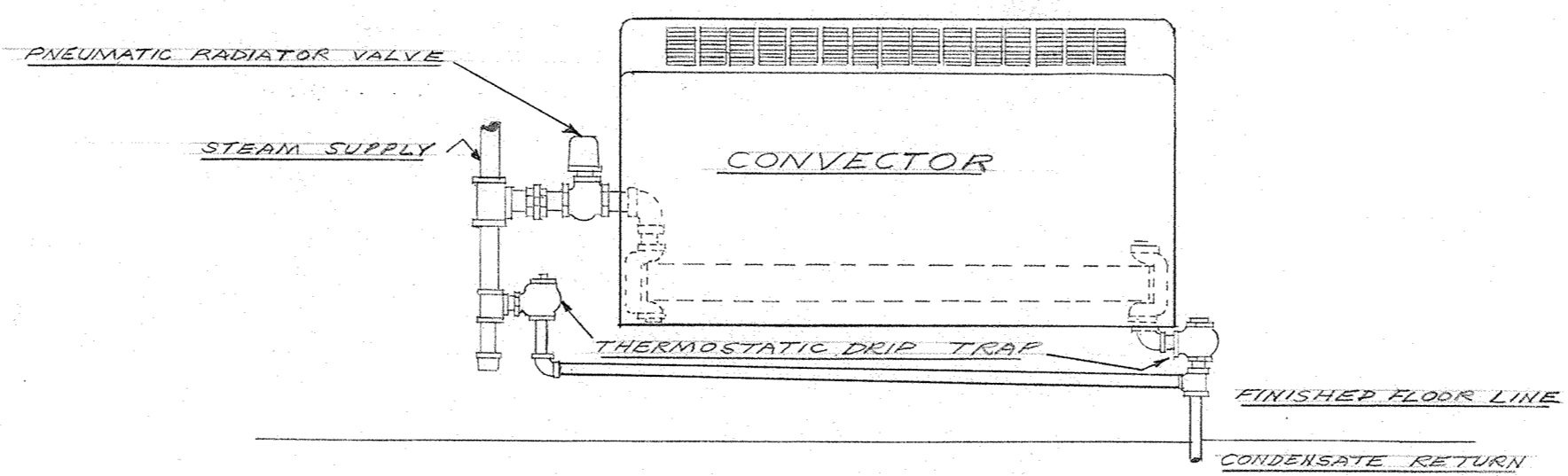
H2



SECTION "D-D" SHOWING TYPICAL EXHAUST ASSEMBLY NO. 1 RISER
SCALE 3/8" = 1'-0"

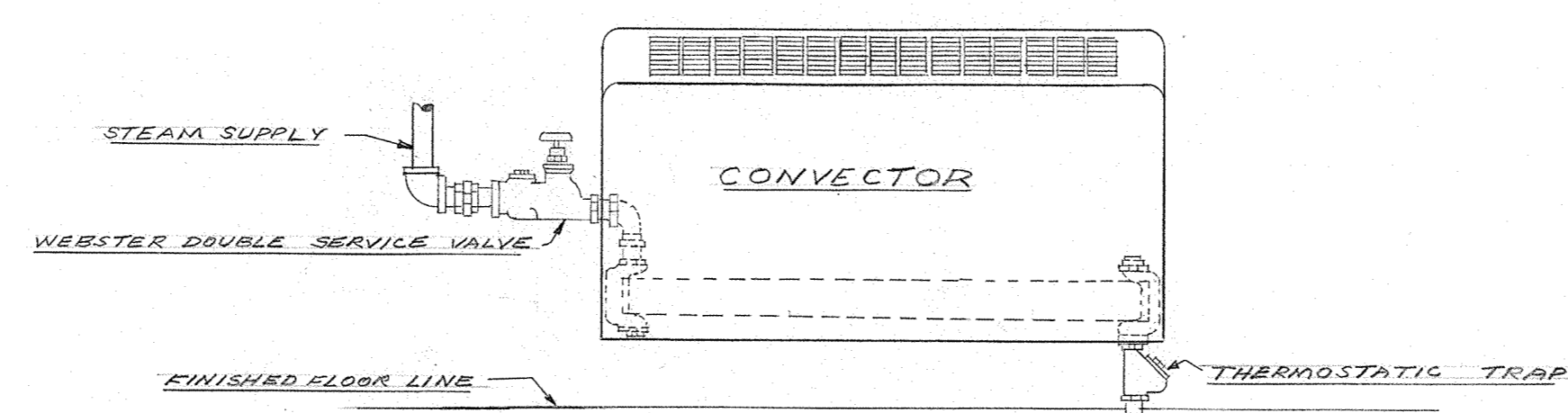


SECTION "K-K" SHOWING TYPICAL EXHAUST ASSEMBLY NO. 2 RISER
SCALE 3/8" = 1'-0"



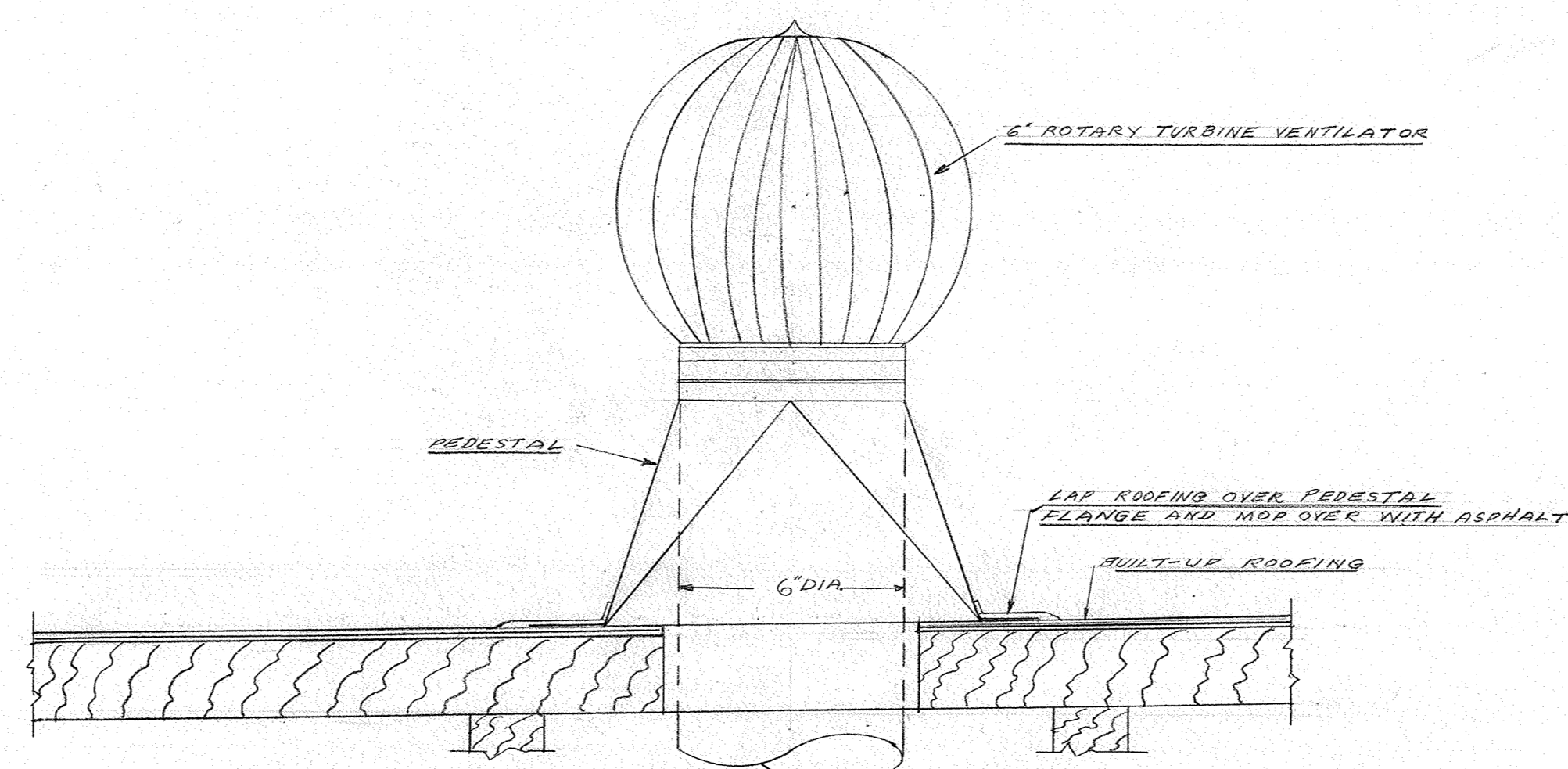
DETAIL OF AUTOMATIC CONTROLLED CONVECTORS

NOT TO SCALE



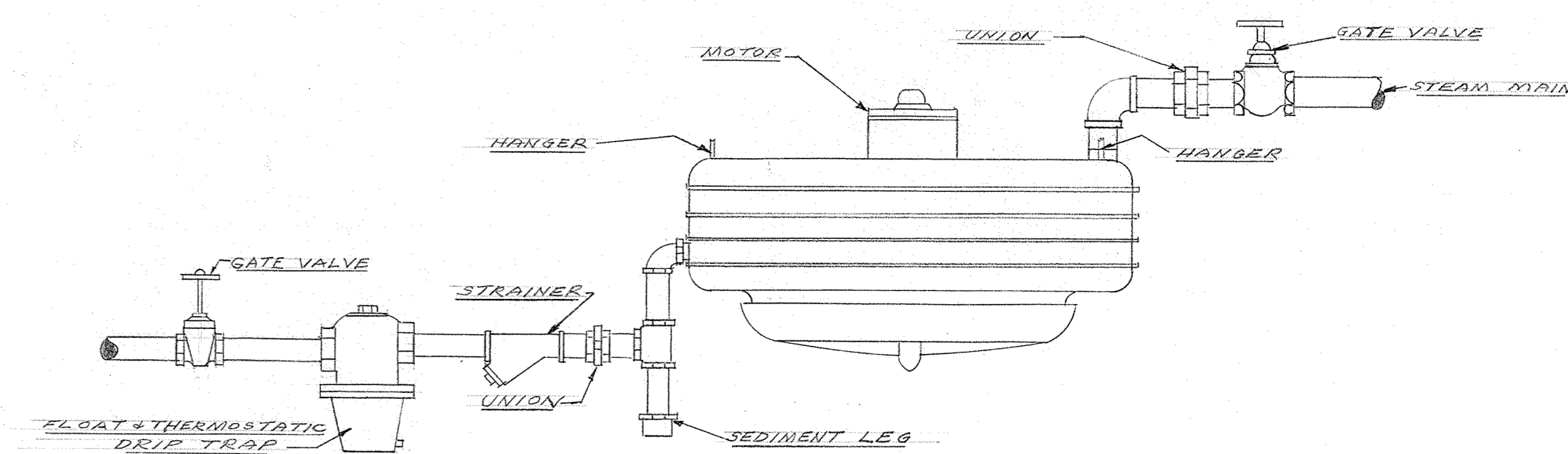
DETAIL OF MANUAL CONTROLLED CONVECTORS

NOT TO SCALE



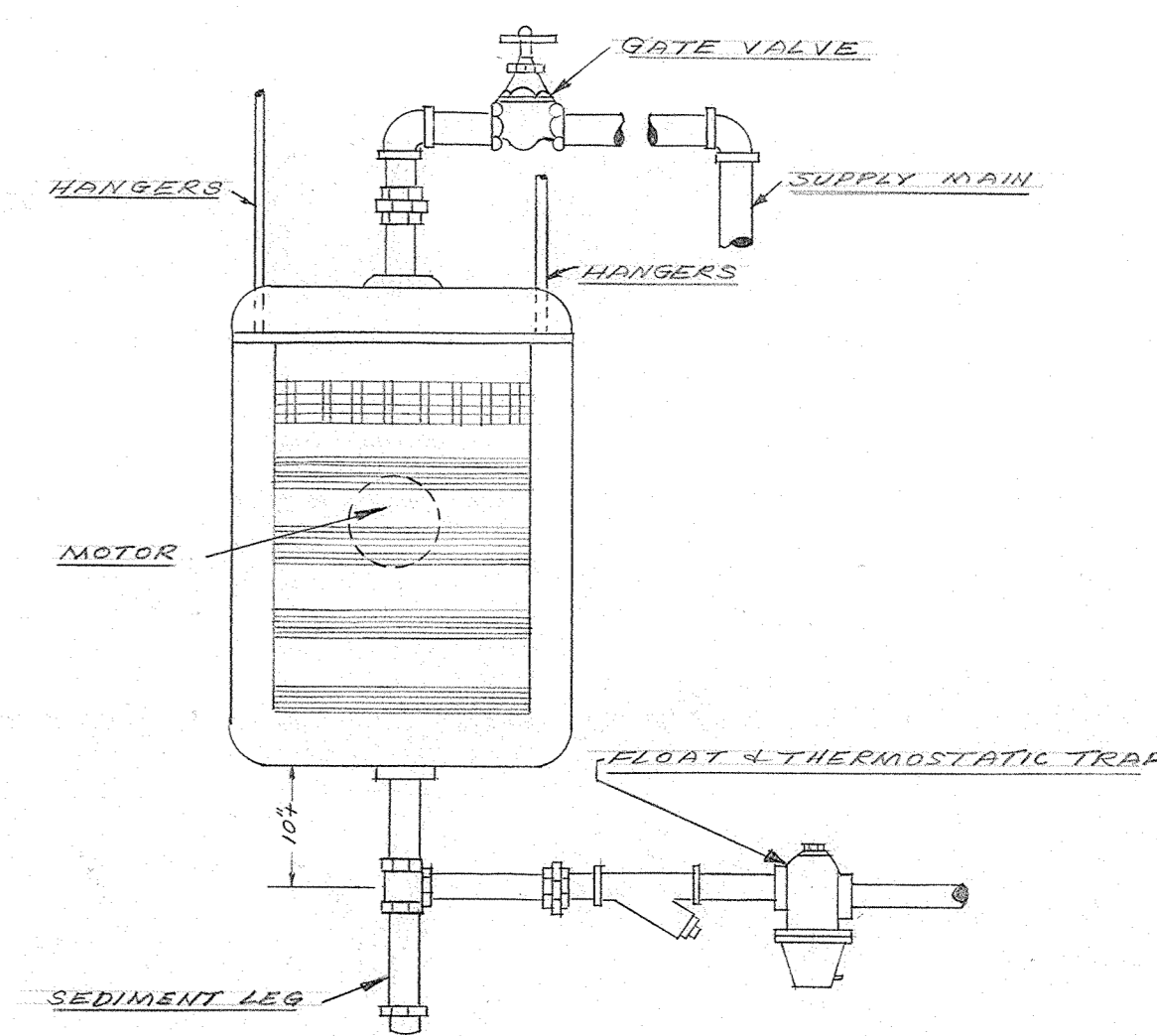
DETAIL OF ROOF VENTILATOR MOUNTING

SCALE 3/4" = 1'-0"



DETAIL OF VERTICAL DISCHARGE UNIT HEATERS

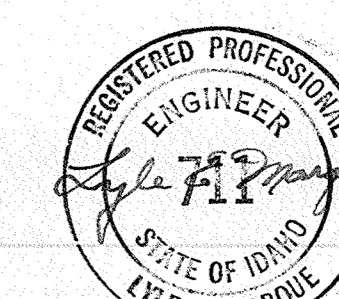
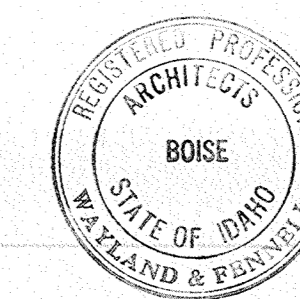
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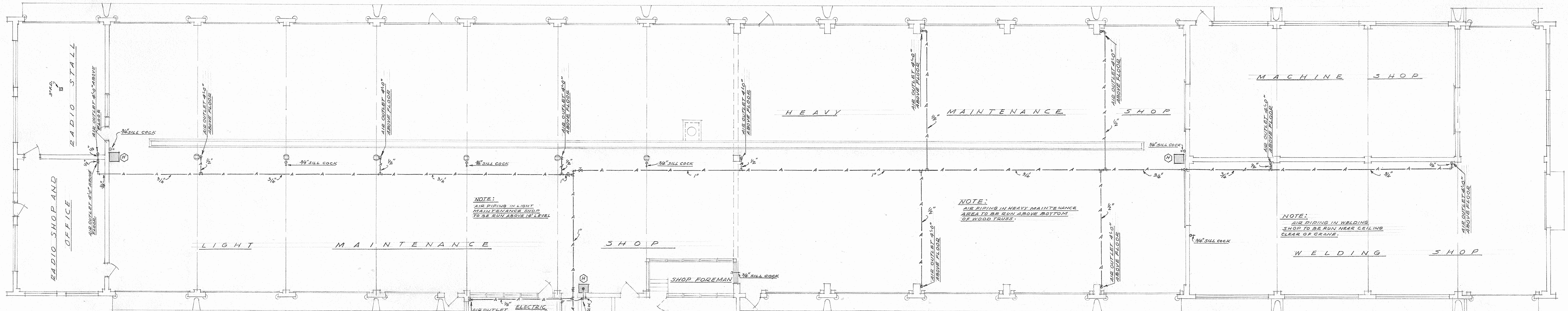
DETAIL OF HORIZONTAL UNIT HEATERS

NOT TO SCALE

APPROVED: *S. Miller*
STATE HIGHWAY ENGINEER



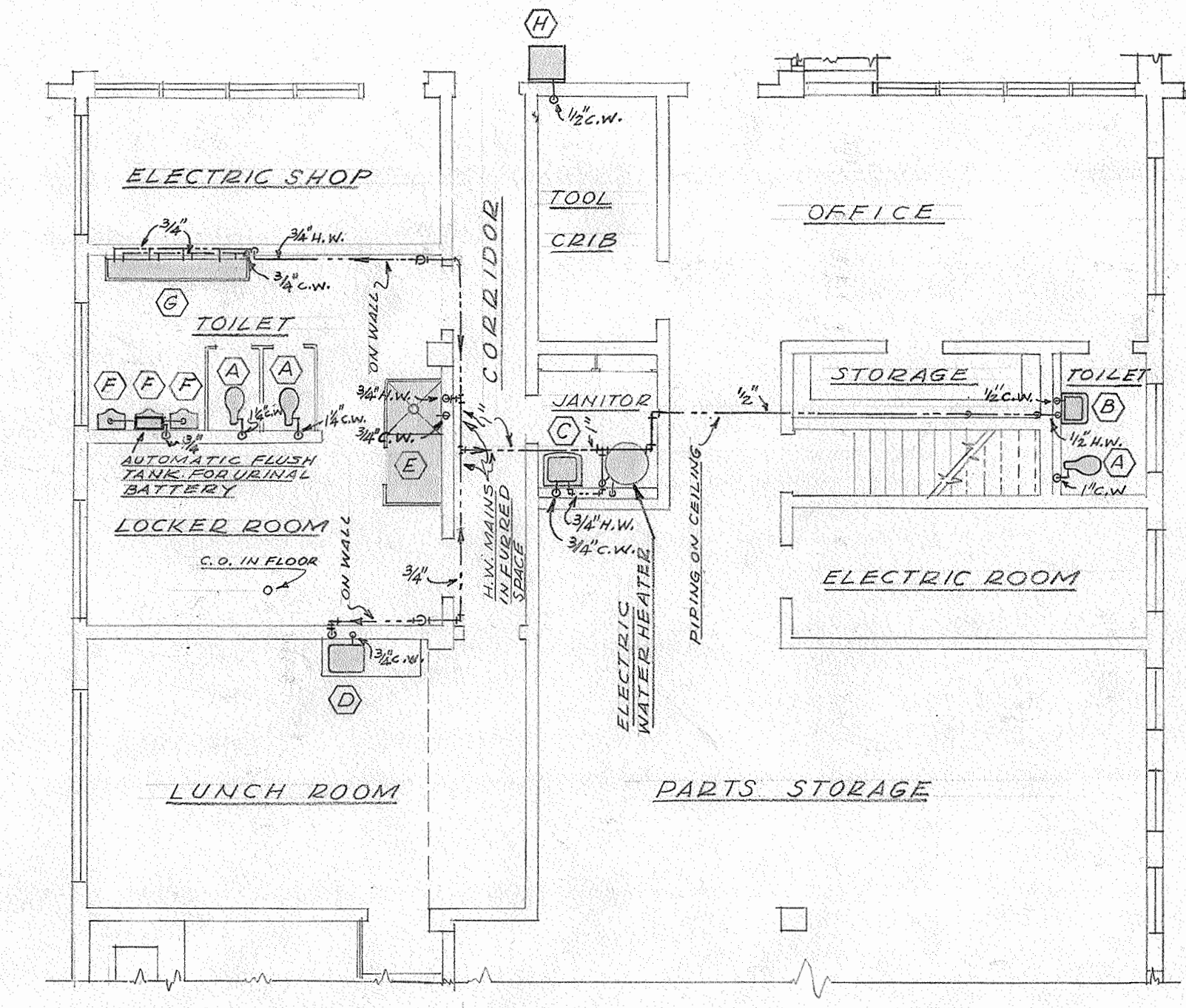
MAINTENANCE SHOP BUILDING
FOR THE STATE OF IDAHO
DEPARTMENT OF HIGHWAYS
STRAWBERRY GLENN, ADA COUNTY, IDAHO
DATE WAYLAND & FENNELL SHEET
DWT E. W. WAYLAND E. W. WAYLAND
1953 JACK T. WOODMANSEE - ASSOC.
ARCHITECTS H3
BOISE IDAHO



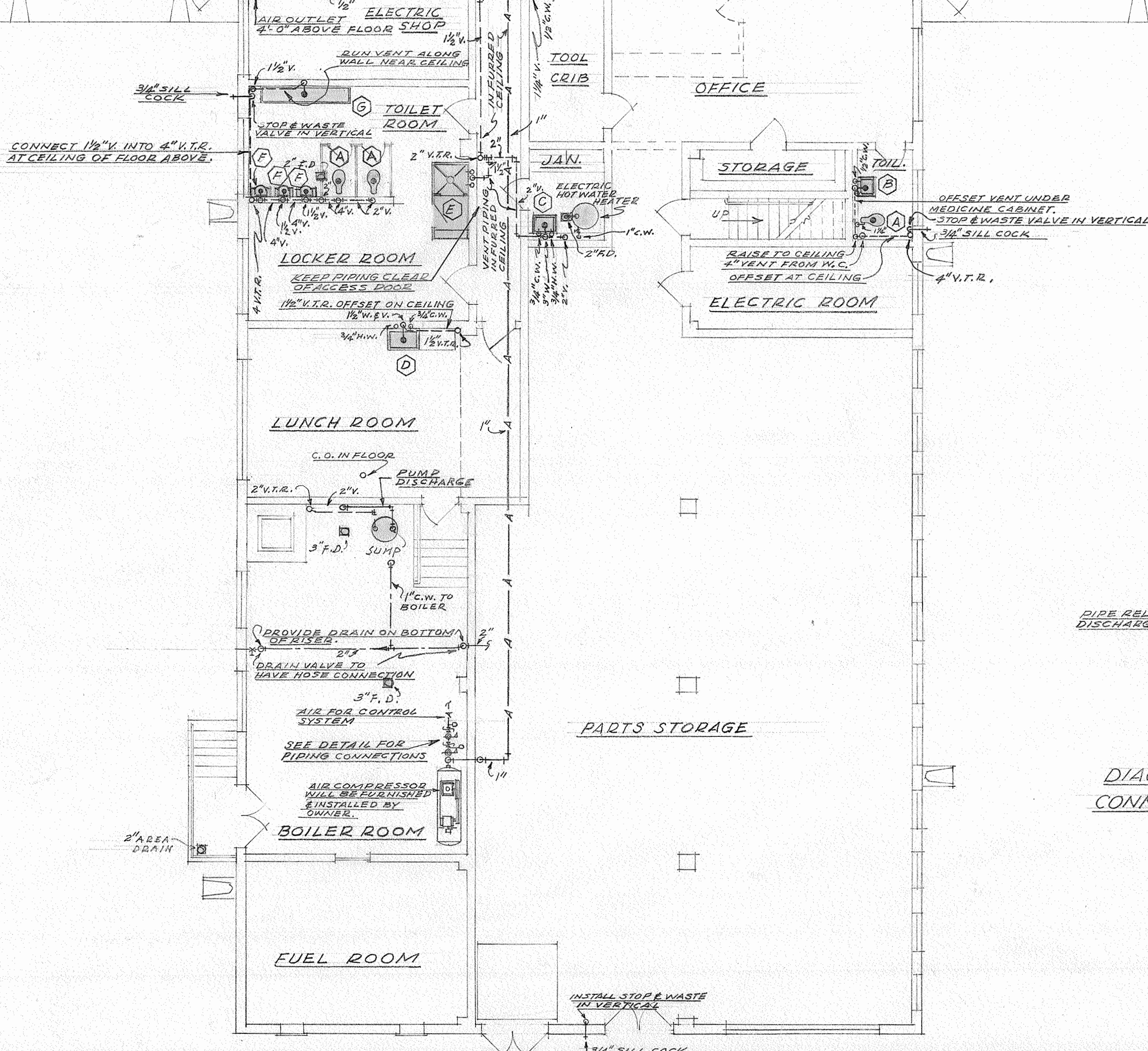
NOTE:
AIR PIPING IN LIGHT
MAINTENANCE SHOP
TO BE RUN ABOVE 12' LEVEL

NOTE:
AIR PIPING IN HEAVY MAINTENANCE
AREA TO BE RUN ABOVE BOTTOM
OF WOOD TRUSS.

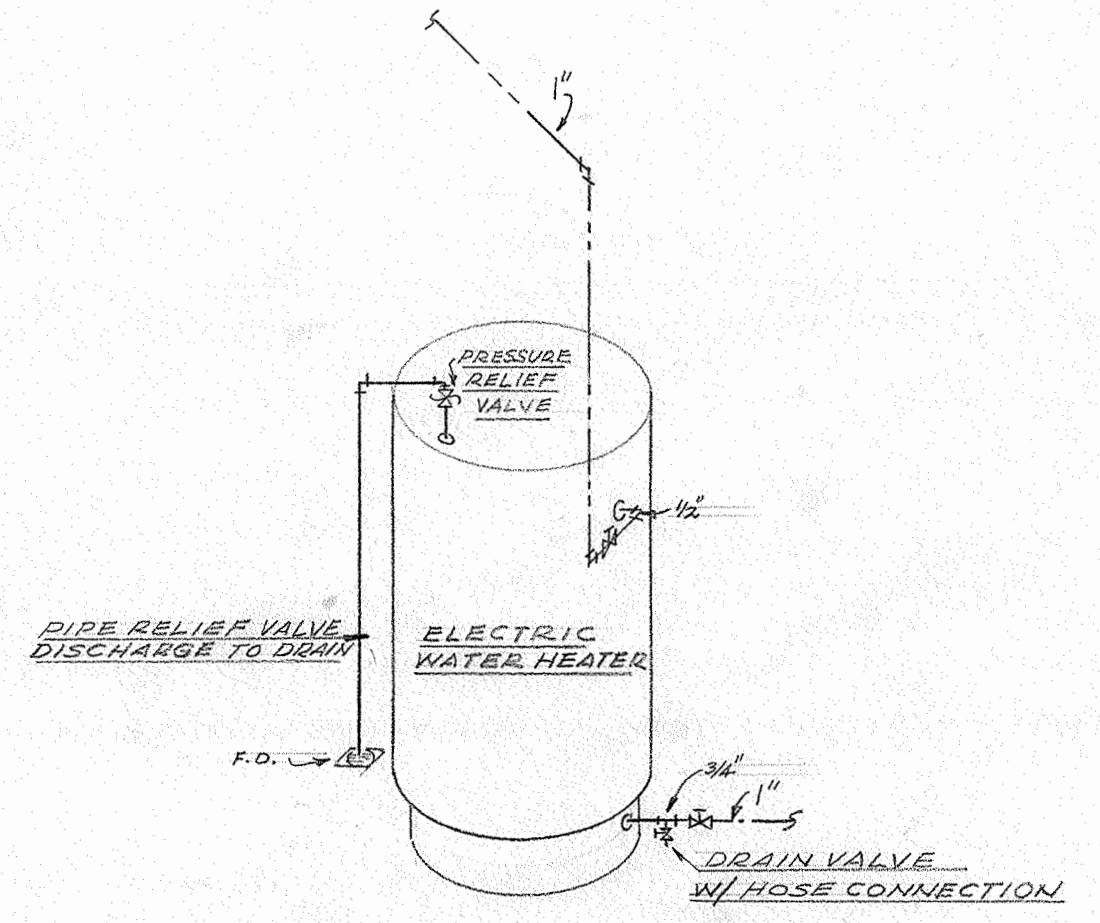
NOTE:
AIR PIPING IN WELDING
SHOP TO BE RUN NEAR CEILING
CLEAR OF CRANE.



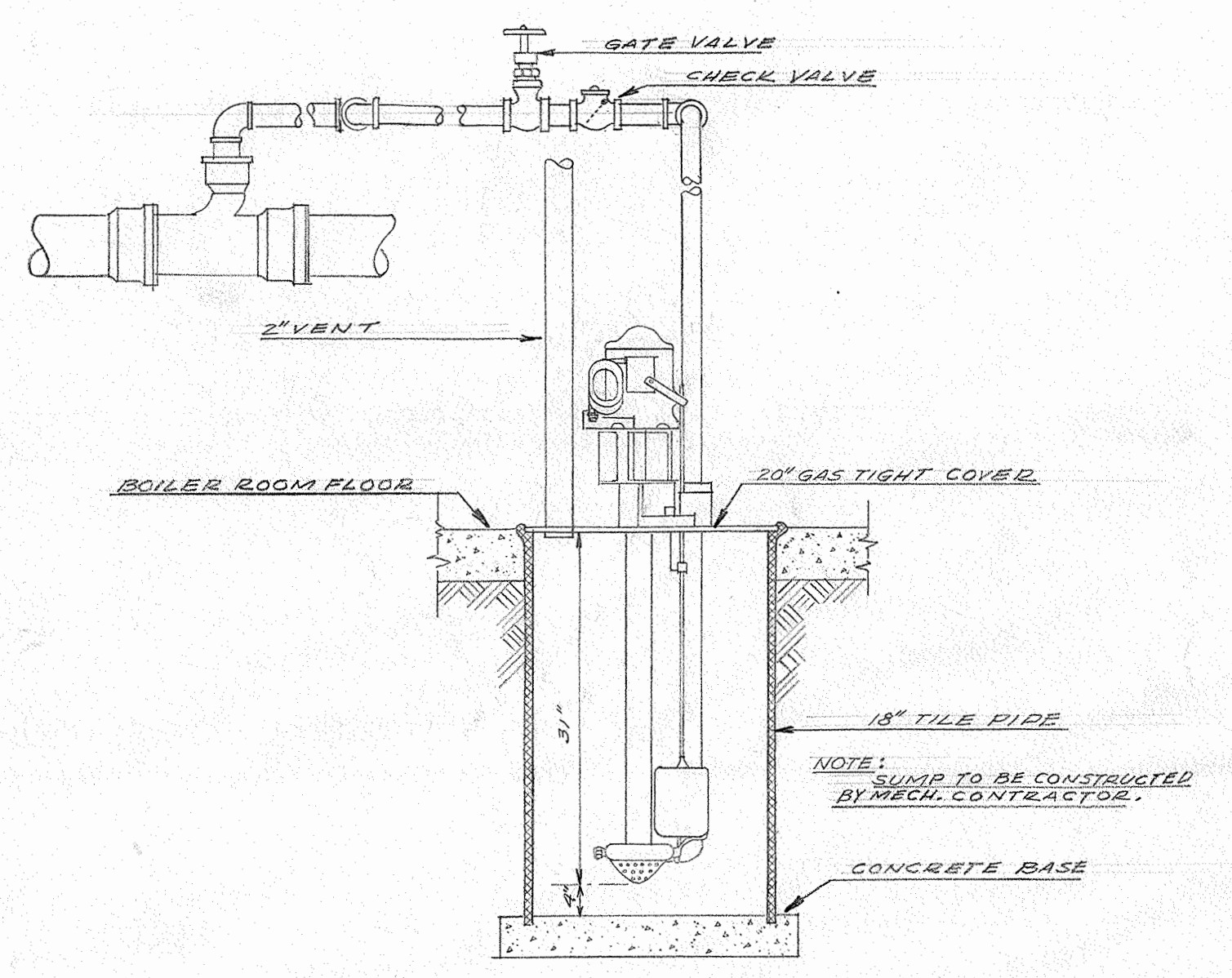
PARTIAL FIRST FLOOR PLAN
SCALE 1/8"=1'-0"



MAIN FLOOR PLUMBING PLAN SCALE 1/8"=1'-0"

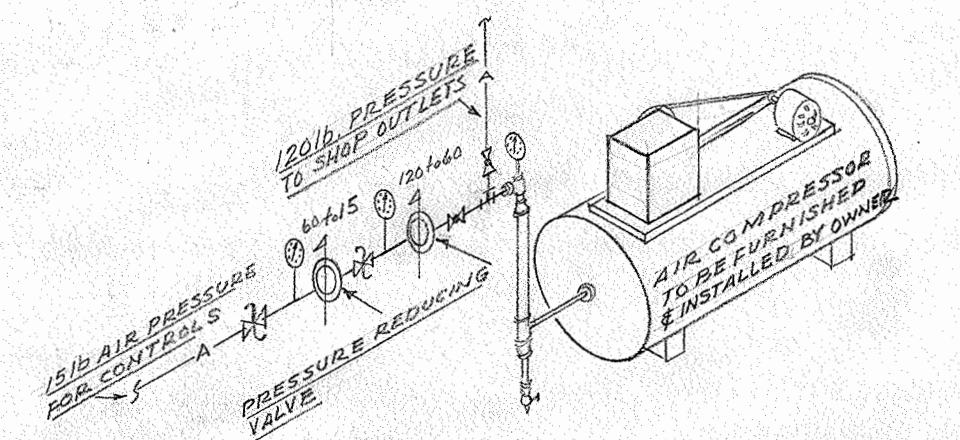


DIAGRAMMATIC OF PIPING
CONNECTIONS TO WATER HEATER
NOT TO SCALE



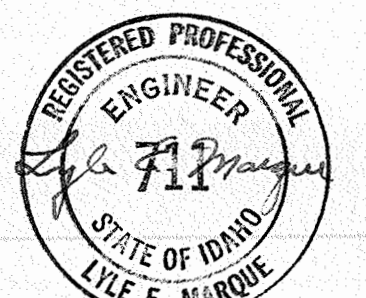
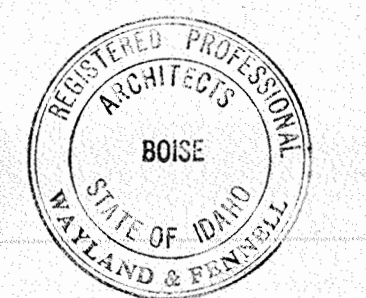
DETAIL OF SUMP PUMP
NOT TO SCALE

LEGEND	
PLUMBING	
SOIL & WASTE PIPING	---
VENT PIPING	---
HOT WATER SUPPLY	---
COLD WATER SUPPLY	---
GATE VALVE	⊥
CHECK VALVE	⊥
SILL COCK	⊥
FLOOR DRAIN	F.D.
CLEAN OUT	C.O.
VENT	V
VENT THROUGH ROOF	V.T.R.
PRESSURE RELIEF VALVE	⊥
HOT WATER	H.W.
COLD WATER	C.W.
AIR PIPING	A



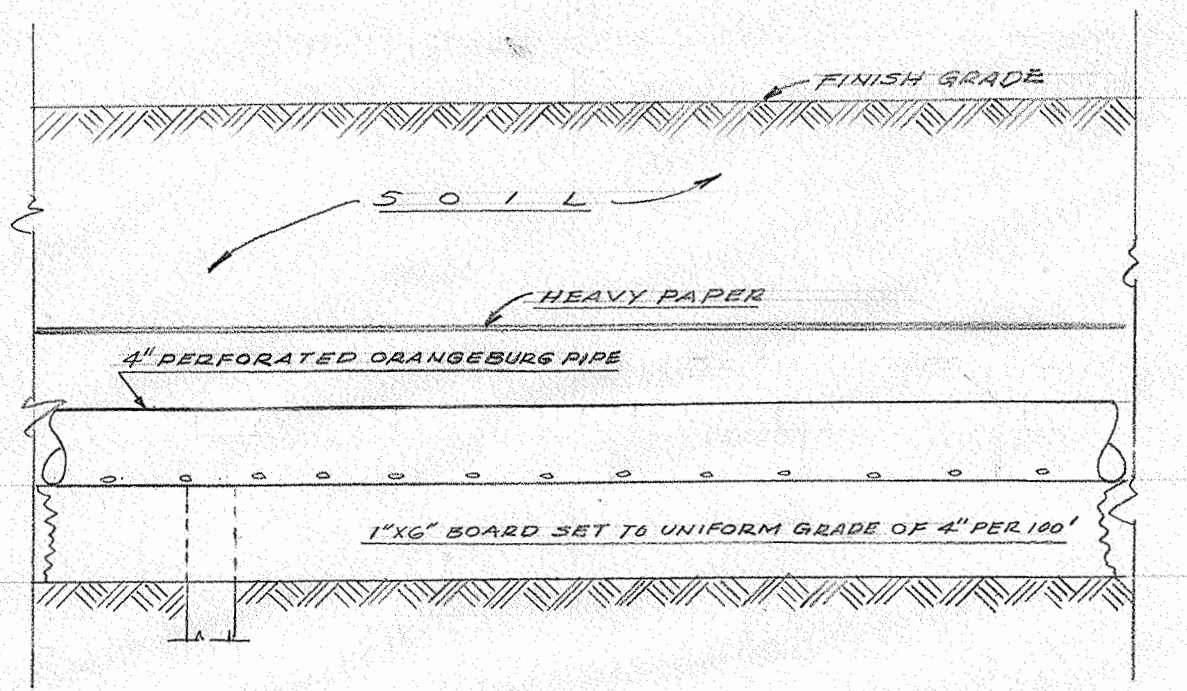
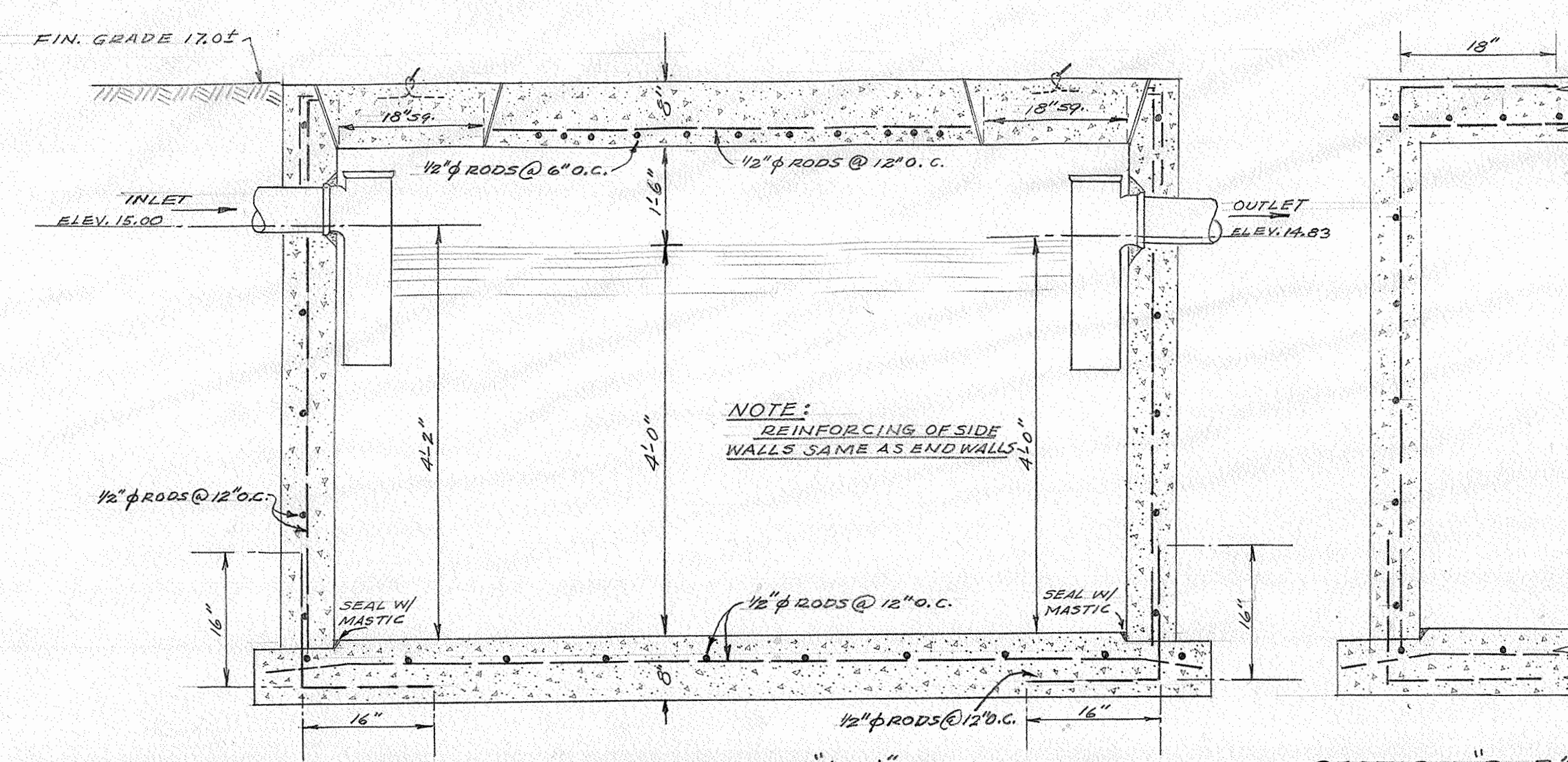
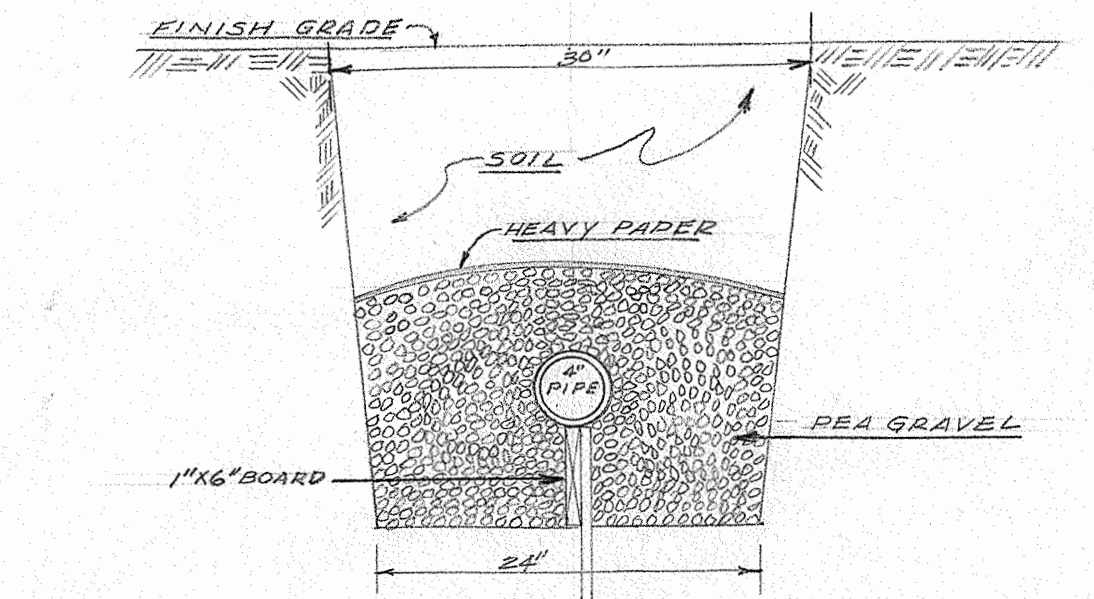
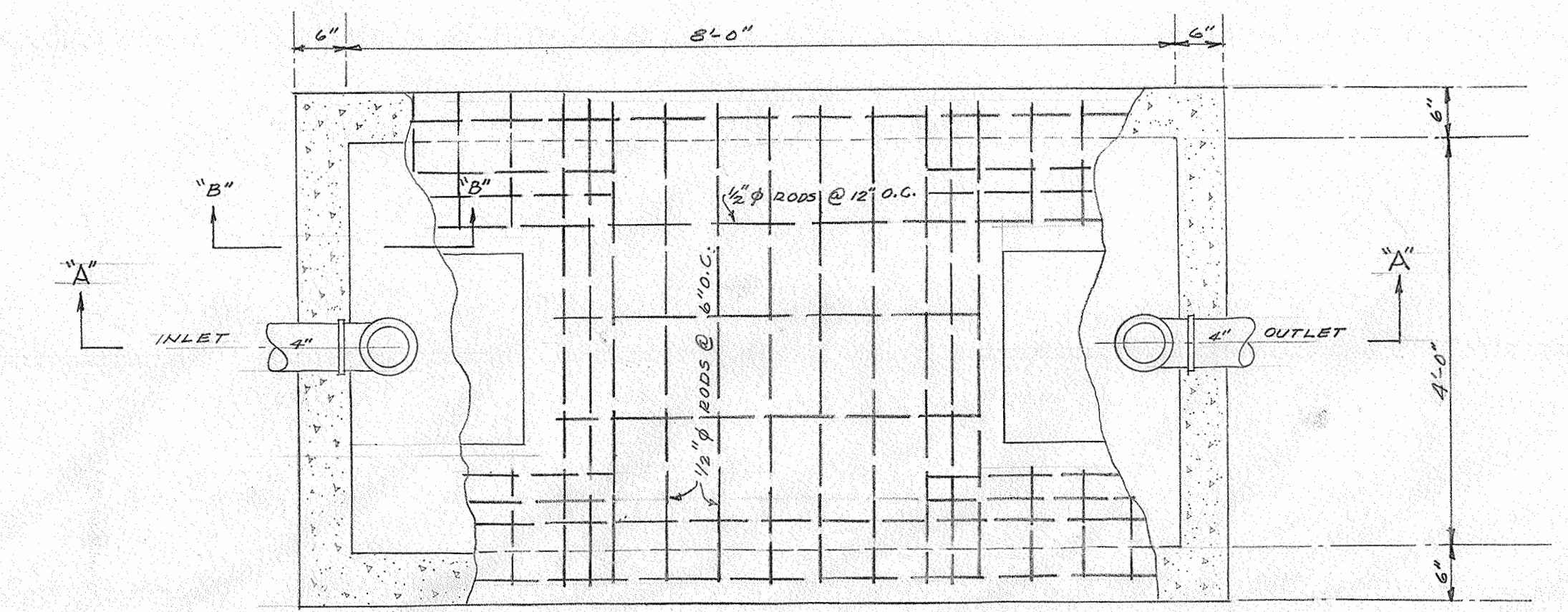
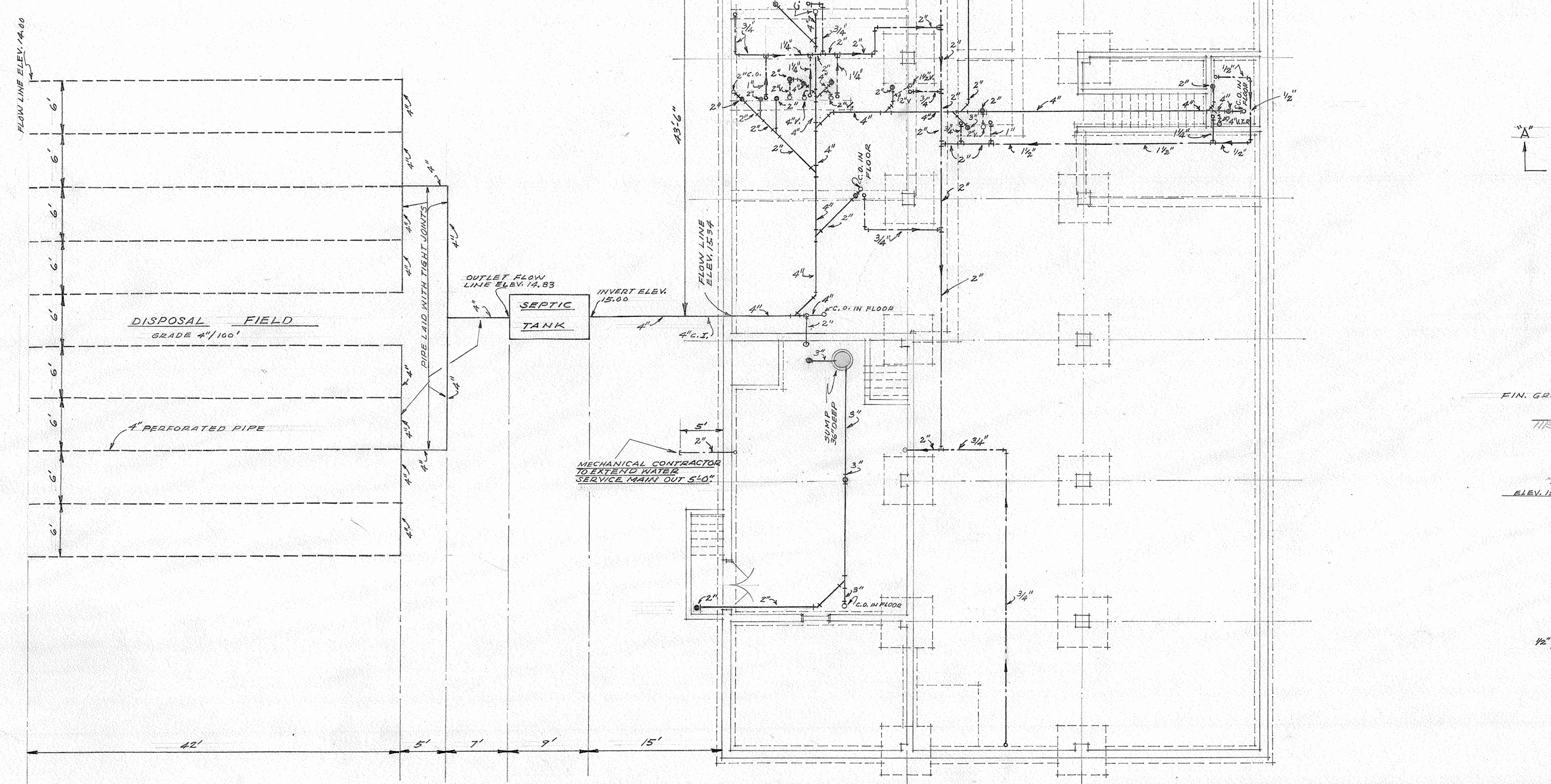
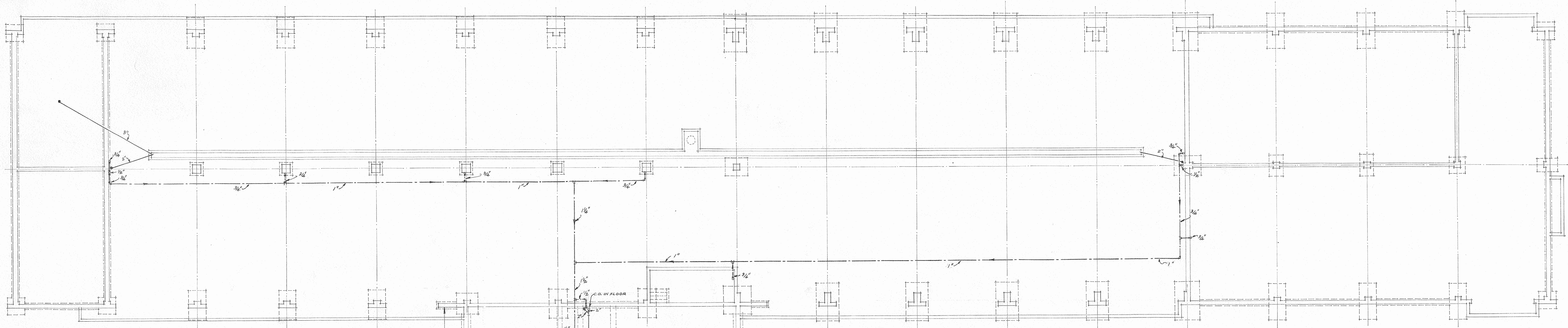
PRESSURE REDUCING STATION FOR AIR SYSTEMS
NOT TO SCALE

APPROVED: *T. Miller*
STATE HIGHWAY ENGINEER



MAINTENANCE SHOP BUILDING
FOR THE STATE OF IDAHO
DEPARTMENT OF HIGHWAYS
DESIGNED BY GLENN ADAMS COUNTY, IDAHO
DATE WAYLAND & FENNEL
OCT. C.W. WAYLAND C.W. WAYLAND
1953 JACK T. WOODMANSEE-ASSOC. ARCHITECTS
BOISE IDAHO

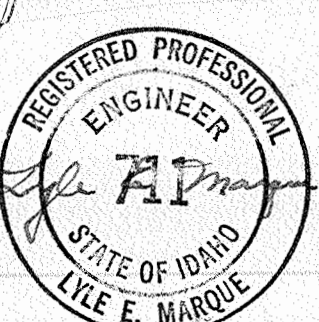
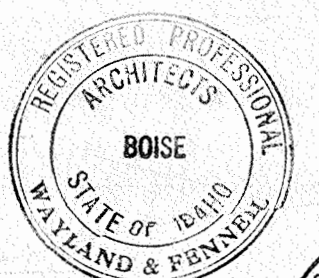
P-1



FOUNDATION PLUMBING PLAN
SCALE 1/8" = 1'-0"

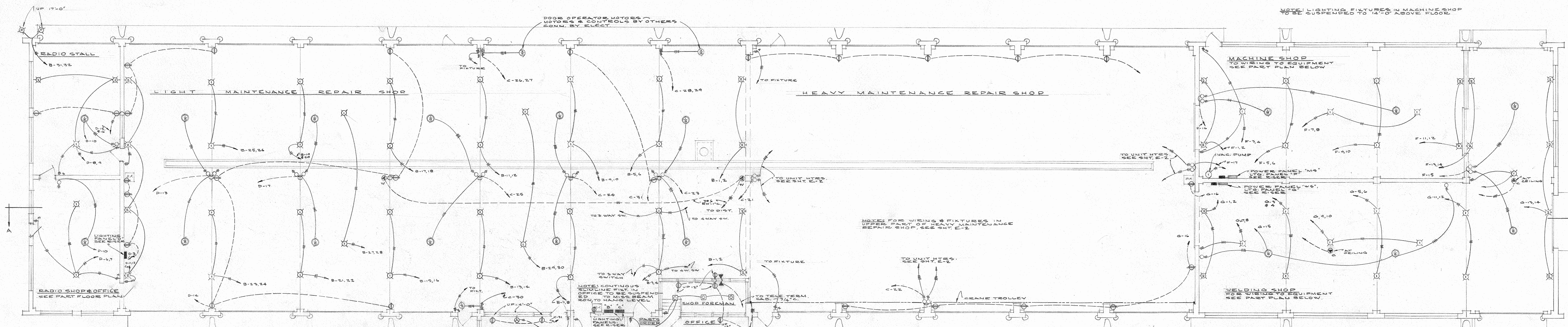
SECTION A-A
SECTION B-B
SEPTIC TANK DETAILS
SCALE 3/4" = 1'-0"

DISPOSAL DRAIN PIPE DETAILS
NOT TO SCALE



APPROVED *F. Miller*
STATE HIGHWAY ENGINEER

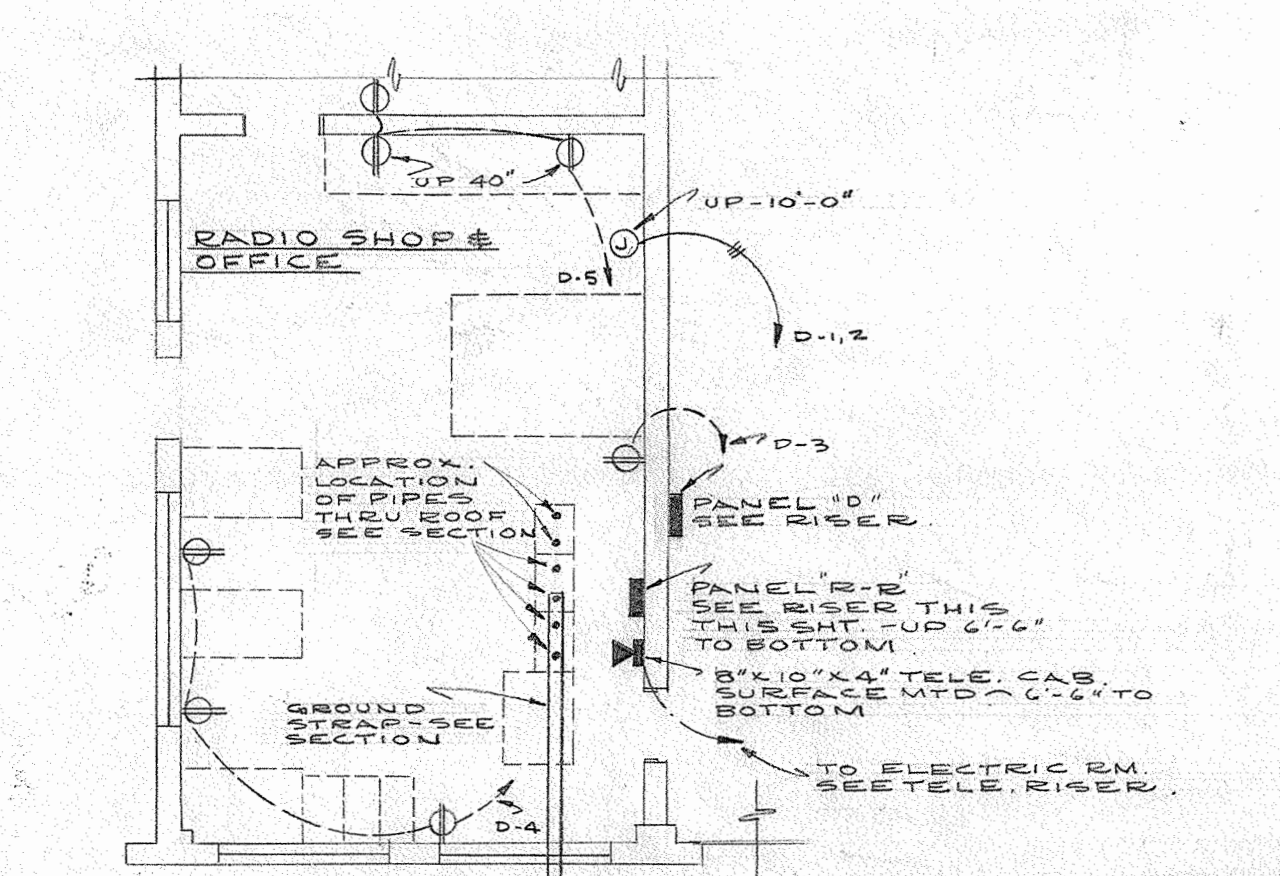
MAINTENANCE SHOP BUILDING
FOR THE STATE OF IDAHO
DEPARTMENT OF HIGHWAYS
STRAWBERRY GLENN, ADA COUNTY, IDAHO
DATE OCT. 1953
WAYLAND & FENNELLS ARCHITECTS
BOISE, IDAHO



NOTE: LIGHTING FIXTURES IN MACHINE SHOP TO BE SUSPENDED TO 14'-0" ABOVE FLOOR.

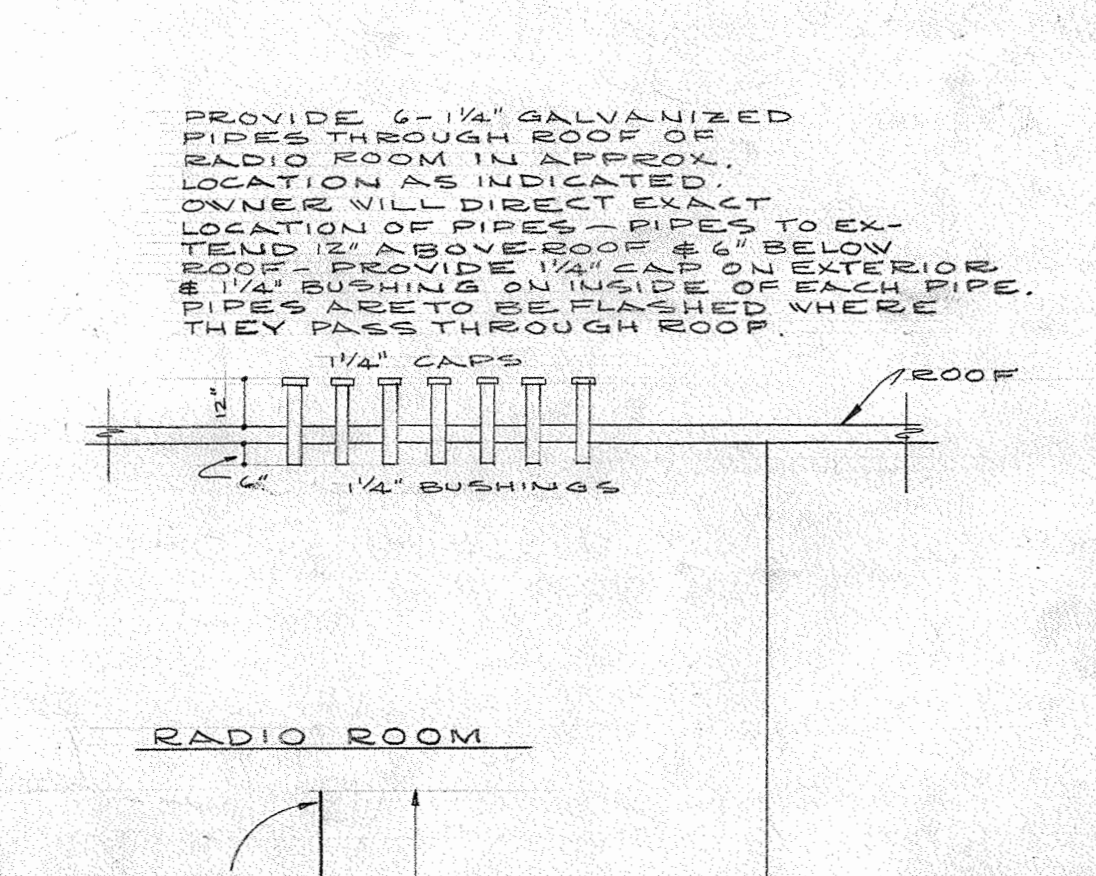
NOTE FOR WIRING & FIXTURES IN REPAIR SHOP SEE SHIT. E-2

NOTE: CONNECTIONS TO SHOP EQUIPMENT IN WELDING & MACHINE SHOPS TO BE BY OWNER. ELECTRICAL CONTRACTOR SHALL VERIFY LOCATIONS OF EQUIPMENT & STUB UP CONDUITS TO NEAREST POINT OF CONNECTION TO EQUIPMENT & LEAVE SUFFICIENT ENDS OF WIRE TO MAKE FINAL CONNECTIONS TO SHOP EQUIPMENT.



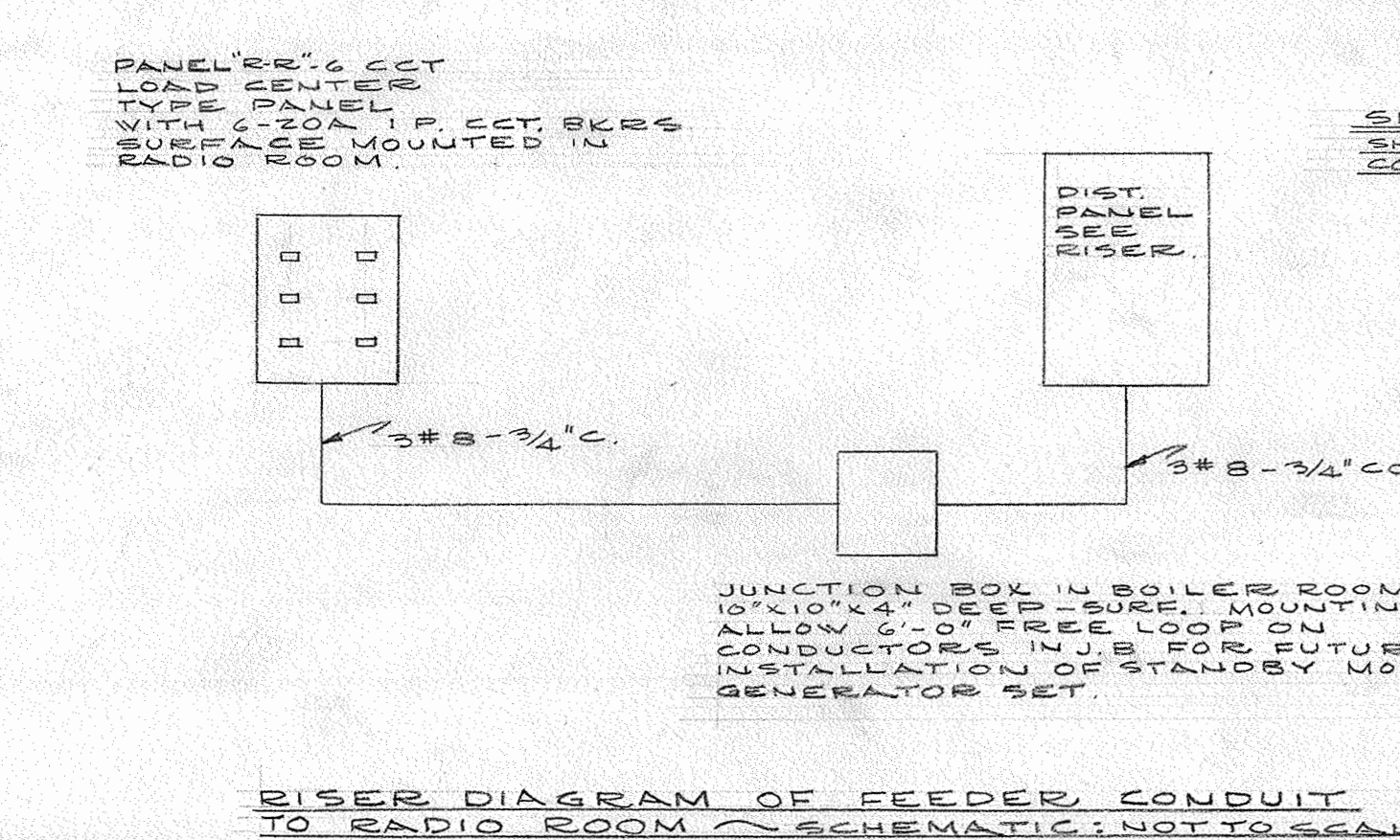
PART FLOOR PLAN SHOWING EQUIPMENT WIRING

NOTE: DOTTED LINES INDICATE EQUIPMENT TO BE FURNISHED & INSTALLED BY OWNER.

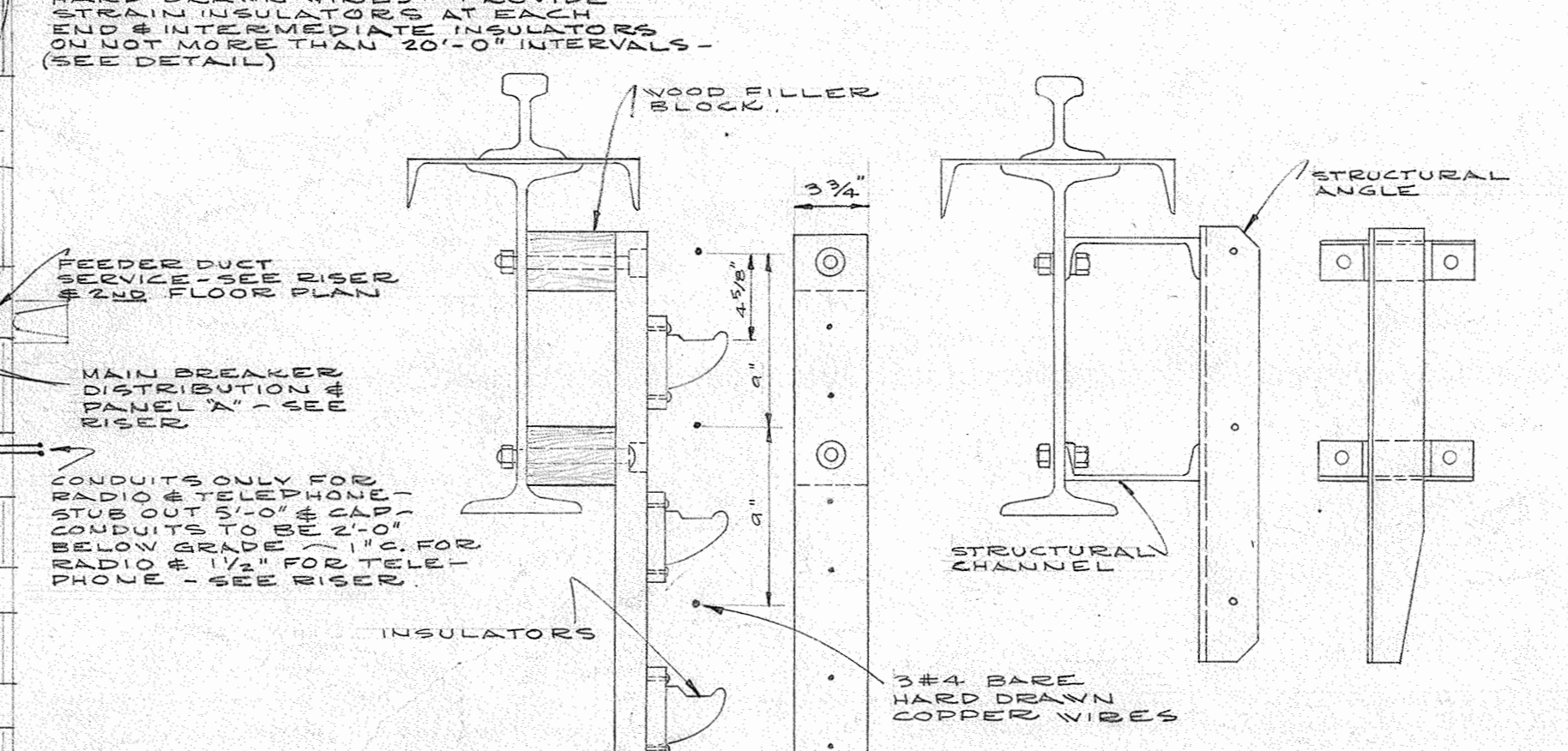
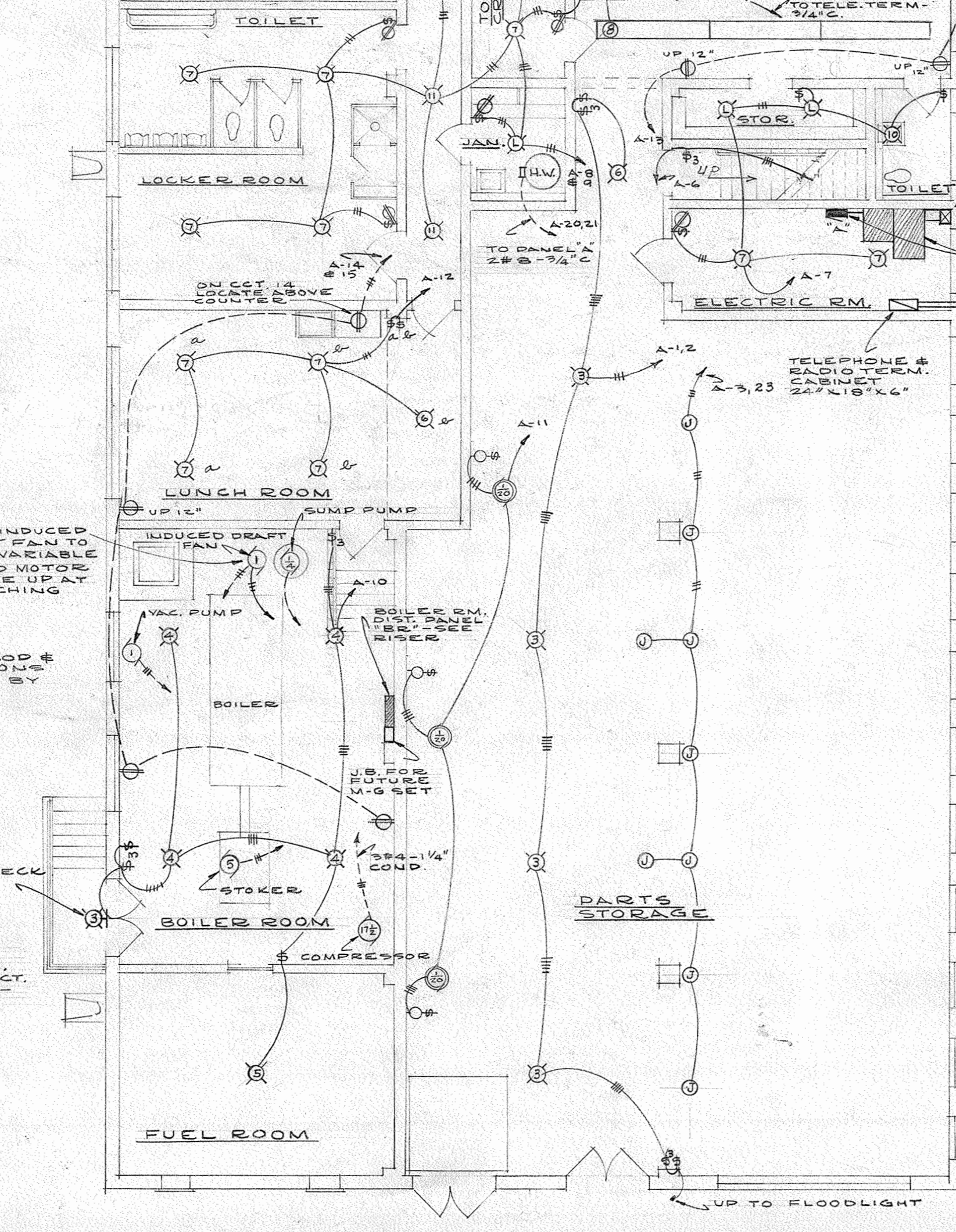


SECTION AT RADIO ROOM SHOWING GROUND STRAP & CONDUITS FOR ANTENNA

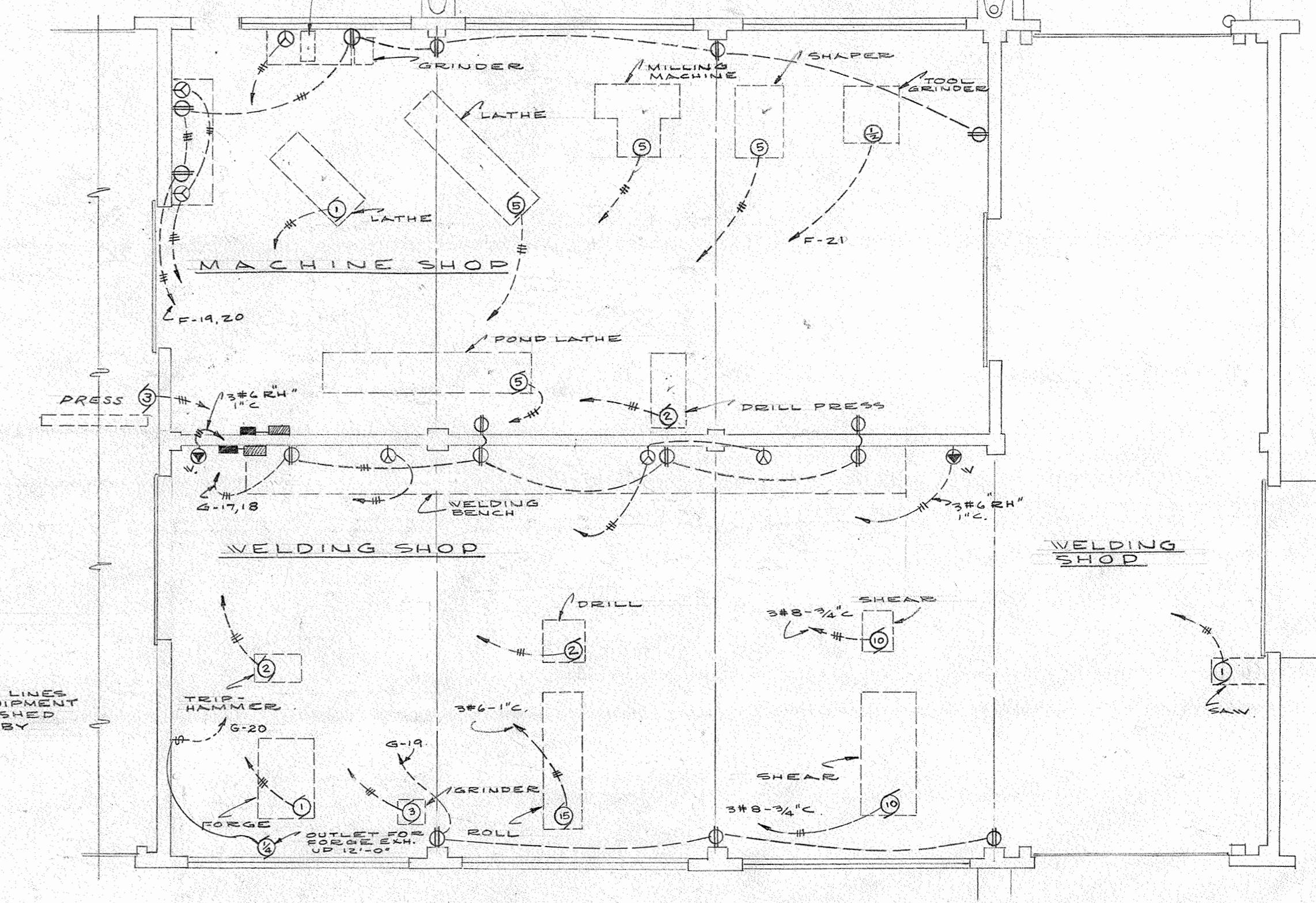
NOT TO SCALE



RISER DIAGRAM OF FEEDER CONDUIT TO RADIO ROOM - SCHEMATIC - NOT TO SCALE



DETAIL SHOWING RUNWAY WIRING NOT TO SCALE

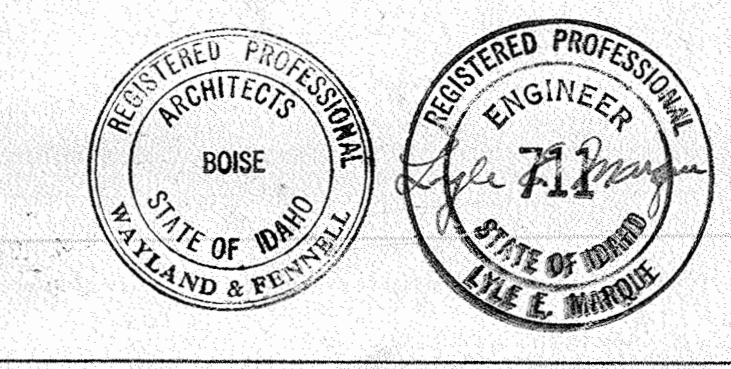


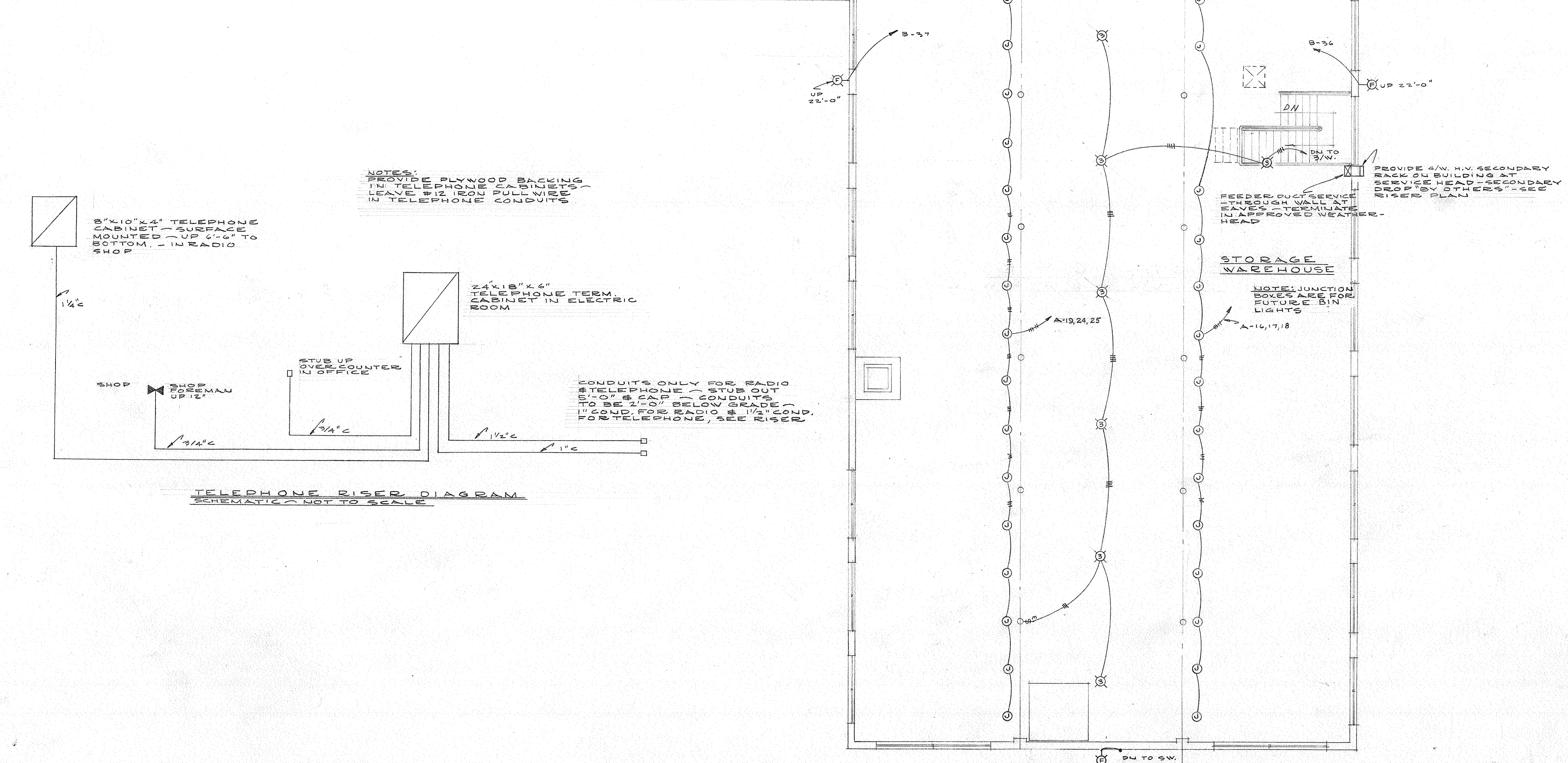
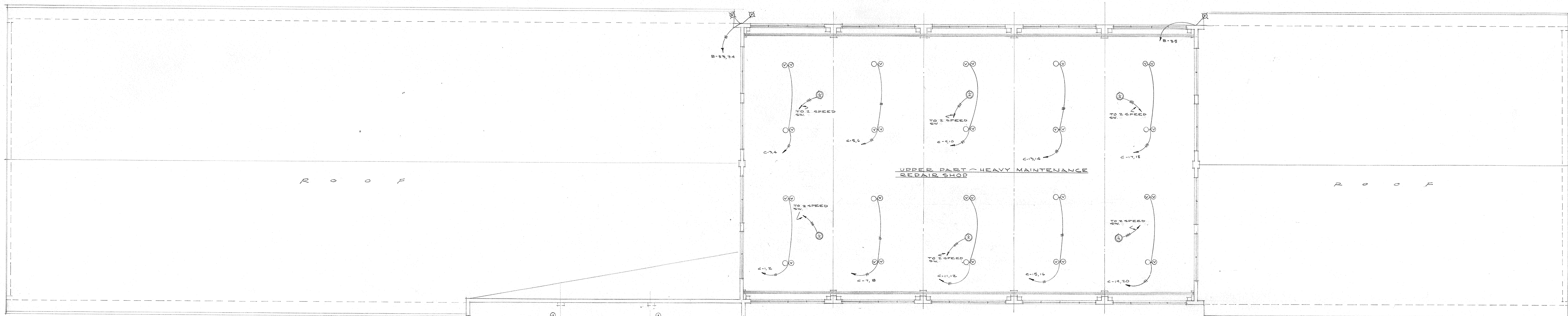
PART FLOOR PLAN SHOWING EQUIPMENT WIRING

NOTE: CONTRACTOR SHALL VERIFY & CHECK ALL DIMENSIONS & CONDITIONS AT BUILDING SITE.

APPROVED: *F. Miller*
STATE HIGHWAY ENGINEER

MAINTENANCE SHOP BUILDING
FOR THE STATE OF IDAHO
DEPARTMENT OF HIGHWAYS
STRAWBERRY GLENN, ADA COUNTY, IDAHO
DATE: WAYLAND & FENNELL
OCT. C.W. WAYLAND C.V. WAYLAND
1953 JACK T. WOODMANSEE - ASSOC.
ARCHITECTS
BOISE IDAHO





LIGHTING FIXTURE SCHEDULE

SYMBOL	TYPE	LAMPS	COMPARATIVE CATALOG NUMBERS	MOUNTING	NO. REQ.
⊙	TWO-LIGHT ALUM. MED. HIGH-BAY UNIT	2-400W H-400 E1	MILLER #PRAM-2400 WITH GE #B915-240V-ENCLOSED-2LAMP	SUSPENDED	10
⊙	COMB. 2-LIGHT ALUM. MED. HIGH-BAY UNIT	1-400W E1 1-1000W PS-62	MILLER #PRAM-2400 WITH GE #B915-240V ENCLOSED SINGLE BALLAST	SUSPENDED	10
⊙	ELM. REFLECTOR WITH MERCURY & INCANDES.	1-400W E1 3-150W A-23	MILLER #PCED-400 WITH GE #B915-240V ENCLOSED SINGLE BALLAST	SUSPENDED	48
⊙	ELLIPTICAL ANGLE REFL. WITH MERCURY LAMP	1-400W E1	BENJAMIN #PS22E WITH GE #B915-240V ENCLOSED SINGLE BALLAST	WALL	22
⊙	ELM. REFLECTOR	1-200W PS-30	SMOOT-HOLMAN #12816 (SWIVEL HANGER)	SUSPENDED	16
⊙	ELM. REFLECTOR	1-300W PS-35	SMOOT-HOLMAN #12816 (SWIVEL HANGER)	SUSPENDED	4
⊙	VAPOR PROOF	1-300W PS-35	BENJAMIN #6503 (SWIVEL HANGER)	SUSPENDED	1
⊙	CEILING UNIT WITH ENCLOSING GLASS	1-200W PS-30	PERFECTITE #0314	CEILING	2
⊙	CEILING UNIT WITH ENCLOSING GLASS	1-300W PS-35	PERFECTITE #0316 M	CEILING	12
⊙	24"-SLIMLINE WITH GLASS SIDES & LOUVE	2-F96/T12 SLIMLINE	3-COLUMBIA #PSL-275-M13	SUSPENDED TO 8'-6"	6
⊙	16"-O" SLIMLINE INDUSTRY TYPE / W LOUVE	2-F96/T12 SLIMLINE	2-COLUMBIA #SBML-275-M4	CEILING	2
⊙	BRACKET / W GLASS	1-60W A-19	PERFECTITE #970	OVER LAY.	1
⊙	DRUM TYPE	2-75W	PRESCOLITE #131 UNS	CEILING	3
⊙	RECESSED INCANDESCENT	1-300W PS-30	ART METAL #457	FLUSH	3
⊙	FLOODLIGHT WITH LENS	1000W PS-52	WESTINGHOUSE TYPE AH 16-CAT# B91571 - PIPE CLAMP BASE - 1/4"	UP 3' OR AS NOTED	8

LIGHTING FIXTURE NOTES

CATALOG NUMBERS USED IN FIXTURE SCHEDULE DESIGNATE TYPE OF FIXTURE & LIGHTING CHARACTERISTICS ONLY.

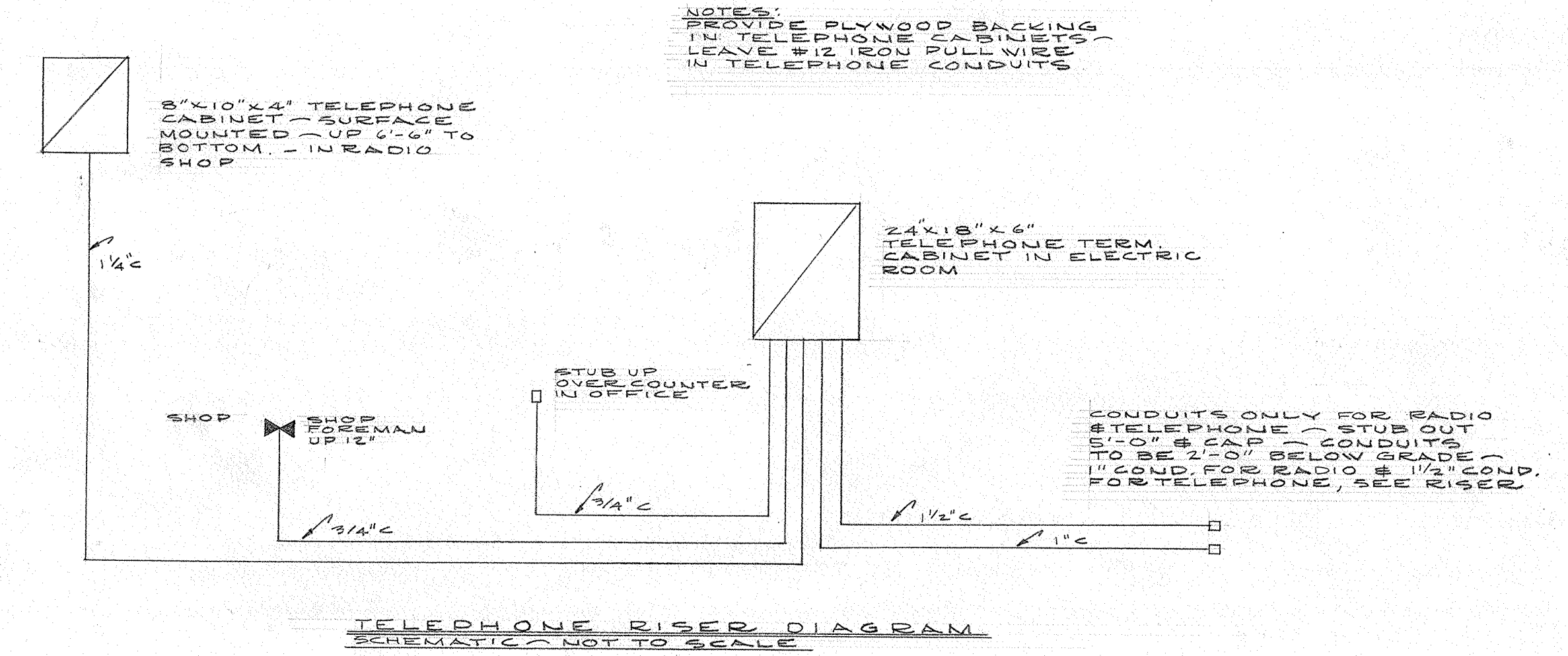
ALL LIGHTING FIXTURES FURNISHED TO BE AS INDICATED OR AN APPROVED EQUAL & SUBJECT TO THE ARCHITECT'S APPROVAL.

ALL LIGHTING FIXTURES TO BE COMPLETE WITH LAMPS.

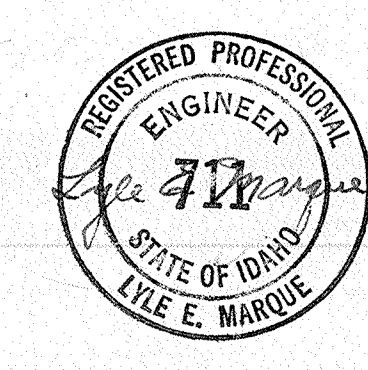
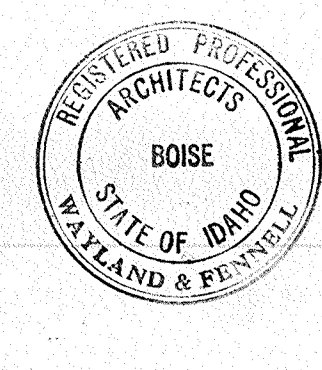
NOTE: FIXTURE SCHEDULE IS TO ASSIST CONTRACTOR IN CHECKING TOTAL NO. OF FIXTURES & DOES NOT NECESSARILY INCLUDE ALL FIXTURES REQUIRED & IS SUBJECT TO CONTRACTOR'S CHECK & SPECIFICATIONS.

NOTE: CONTRACTOR SHALL VERIFY & CORRECT ALL DIMENSIONS & LOCATION AT BUILDING SITE.

APPROVED: *T. Wheeler*
STATE HIGHWAY ENGINEER



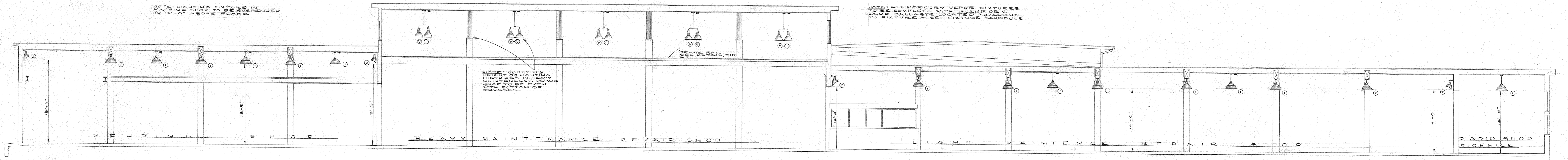
SECOND FLOOR ELECTRICAL PLAN
SCALE 1/8" = 1'-0"



MAINTENANCE SHOP BUILDING
FOR THE STATE OF IDAHO
DEPARTMENT OF HIGHWAYS
STRAWBERRY GLENN, ADA COUNTY, IDAHO

DATE: WAYLAND & FENNELL
OCT. C.W. WAYLAND C.V. WAYLAND
1953 JACOB T. WOODMANSEE & ASSOC.
ARCHITECTS
BOISE IDAHO

E2



SECTION A-A SCALE: 1/8" = 1'-0"

SCHEDULE-PANEL "WS"

DESCRIPTION: TYPE AB-41 CONVERTIBLE DISTRIBUTION PANEL 120/240 3Ø 3W 3/4" MAINS SURFACE MOUNTED. LUGS ONLY IN MAINS

NO OF BKRS	BKRS NO.	BREAKER RATING		POLES	AREA OF ITEMS SERVED
		FRAME AMP	TRIP AMP		
1	1	100	100	2	PANEL "G"
2	2-5	100	70	3	2 WELDER OUTLETS - 2 SHEARS
2	6-7	50	20	3	GRINDER # ROLL
2	8-13	50	15	3	2 PHANOMES POSSE DRILL
2	14-15	50	15	2	CRANE # SPARE

SCHEDULE PANEL "MS"

DESCRIPTION: SAME AS PANEL "WS"

NO OF BKRS	BKRS NO.	BREAKER RATING		POLES	AREA OF ITEMS SERVED
		FRAME AMP	TRIP AMP		
1	1	100	100	2	PANEL "F"
1	2	100	100	3	SPACE ONLY
4	3-4	50	40	3	2 LATHES, MILLING MACH, SHAPER
2	7-8	50	20	3	SPARES + OUTLETS
5	9-13	50	15	3	DRILL, LATHE, DRILL PRESS, VAC. PUMPS & SPARES
1	14	50	25	3	PRESS

SCHEDULE PANEL "BO"

DESCRIPTION: SAME AS PANEL "WS"

NO OF BKRS	BKRS NO.	BREAKER RATING		POLES	AREA OF ITEMS SERVED
		FRAME AMP	TRIP AMP		
1	1	100	40	3	AIR COMPRESSOR MOTOR
2	2,3	50	40	3	STOKER # SPARE
4	4-7	50	15	3	VAC. PUMP, INDUCED DRAFT, FUTURE ELEVATOR # SPARE

MAIN PANEL SCHEDULE

DESCRIPTION: BUILDING TYPE DISTRIBUTION SWITCHBOARD WITH TYPE DA-50 MAIN BREAKERS # 3/4" BUS

NO OF BKRS	BKRS NO.	FRAME OR TYPE	BREAKER RATING		POLES	AREA OR ITEM SERVED
			FRAME AMP	TRIP AMP		
1	1	DA-50	1600	1500	3	MAIN BREAKER
1	2	"K"	225	150	2	PANEL "A"
1	3	"K"	225	200	2	PANEL "B"
1	4	"K"	225	200	2	PANEL "C"
1	5	"F"	100	100	2	PANEL "D"
1	6	"L"	500	350	3	PANEL "WS"
1	7	"K"	225	200	3	PANEL "MS"
1	8	"K"	225	125	3	CRANE
1	9	"K"	225	125	3	BOILER RM. - PANEL "BR"
1	10	"F"	100	70	3	WELDER OUTLETS
1	11	"F"	100	40	2	PANEL "B-R"
1	12	"F"	100	20	3	OUTLET IN ELECT. SHOP
2	3,14	"F"	100	70	3	SPARES

PANEL "A"
 NLAB-30-3L200
 CIRCUIT BKRS. AS FOLLOWS:
 2-1P, -20A. BKRS. -24 IN USE, 4 SPARE
 1-2P, -40A. BKRS. -H.W. TANK

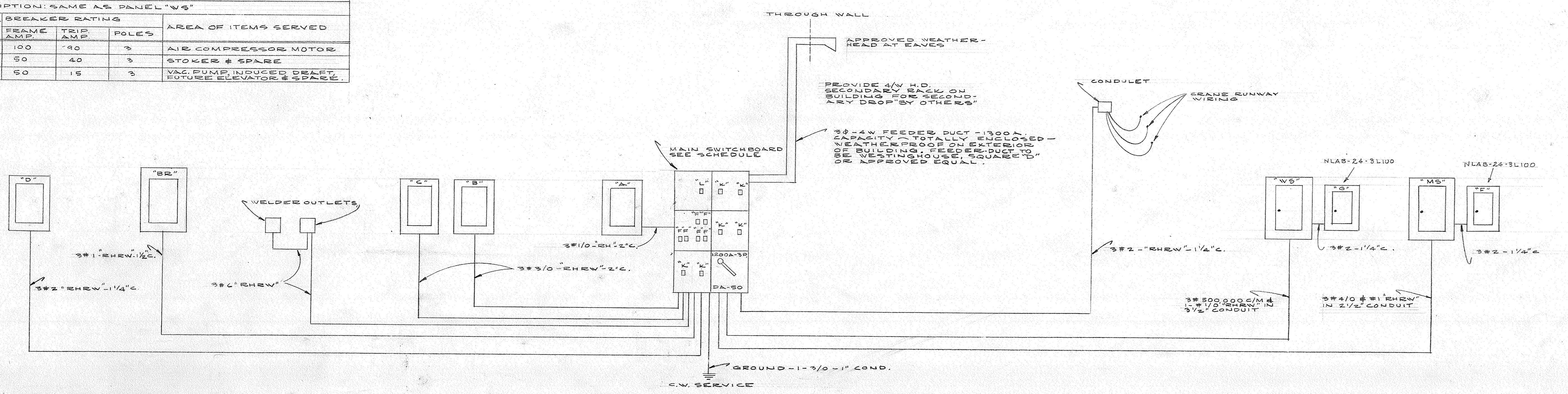
PANEL "B"
 NLAB-42-3L225
 CIRCUIT BKRS. AS FOLLOWS:
 15-2P, -20A. BKRS. -MERCURY VAPOR LAMPS
 12-1P, -20A. BKRS. -7 IN USE, 5 SPARES

PANEL "C"
 NLAB-28-3L200
 CIRCUIT BKRS. AS FOLLOWS:
 10-2P, -20A. BKRS. -MERCURY VAPOR LAMPS
 3-2P, -20A. BKRS. -DOOR OPERATOR BS
 12-1P, -20A. BKRS. -7 IN USE, 7 SPARES

PANEL "D"
 NLAB-20-3L100
 CIRCUIT BKRS. AS FOLLOWS:
 3-2P, -20A. BKRS. -MERCURY VAPOR LAMPS
 14-1P, -20A. BKRS. -11 IN USE, 3 SPARE

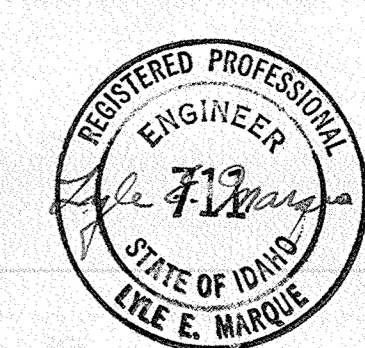
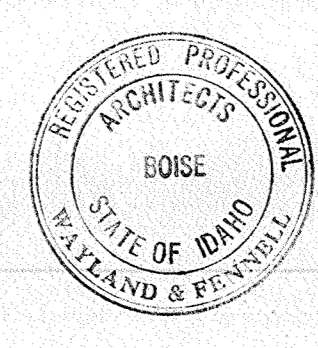
NOTE: WIRING TO COMBINATION MERCURY VAPOR & INCANDESCENT FIXTURES IS TO BE BALANCED SO THAT THE INCANDESCENT LIGHTING IS ON OPPOSITE LEGS OF 220V. CIRCUIT.

- ELECTRICAL SYMBOLS**
- ⊠ CEILING OUTLET - NUMERAL DENOTES FIXTURE
 - ⊠ BRACKET OUTLET - NUMERAL DENOTES FIXTURE
 - ⊙ OUTLET FOR HI-BAY FIXTURE AS NOTED
 - ⊙ OUTLET FOR HI-BAY FIXTURE AS NOTED
 - ⊠ OUTLET FOR RECESSED FIXTURE AS NOTED
 - ⊠ OUTLET FOR LAMPHOLDER - H # H # III
 - ⊠ OUTLET FOR FLOODLIGHT - AS NOTED
 - ⊠ OUTLET FOR SLIMLINE FIXTURE AS NOTED
 - ⊠ DUPLEX RECEPTACLE - UP 4'-0" OR AS NOTED
 - ⊠ 3Ø 4W POLARIZED OUTLET # CAP - 20A. - UP 4'-0"
 - ⊠ WELDER OUTLET - UP 4'-0"
 - ⊠ CRANE OUTLET - ON CEILING
 - ⊠ MOTOR OUTLET - NUMERAL DENOTES H.P.
 - ⊠ UNIT HEATER # OUTLET - NUMERAL DENOTES H.P. - CEILING MOUNTED
 - ⊠ 2 SPEED SWITCH FOR UNIT HEATER - UP 6'-0" BY OTHERS
 - ⊠ DOOR OPERATOR SWITCH - UP 5'-0" "BY OTHERS"
 - ⊠ SINGLE POLE FLUSH SWITCH
 - ⊠ THREE WAY FLUSH SWITCH
 - ⊠ FOUR WAY FLUSH SWITCH
 - ⊠ JUNCTION BOX - 4" SQUARE BOX, OR AS NOTED
 - ⊠ PUBLIC TELEPHONE OUTLET - 4" SQ. BOX # PLATE
 - ⊠ POWER PANEL - SEE RISER DIAGRAM # SCHEDULES
 - ⊠ LIGHTING PANEL - SEE RISER DIAGRAM # SCHEDULES
 - ⊠ MOTOR STARTING SWITCH (BY MECHANICAL) - CONNECTIONS BY ELECTRICAL
 - ⊠ DISCONNECT SWITCH BY ELECTRICAL
 - ⊠ TELEPHONE # RADIO CABINET - SIZE AS NOTED
 - CONDUIT - CONCEALED IN WALL OR CEILING
 - CONDUIT - CONCEALED IN FLOOR SLAB
 - CONDUIT - CONCEALED FOR TELEPHONE # RADIO - EMPTY
 - CRANE TROLLEY RUNWAY WIRING
 - ⊠ CROSSHATCH ON CONDUIT DENOTES NO. OF WIRES. NO CROSSHATCH INDICATES 2 WIRES - MINIMUM SIZE OF WIRE TO BE #12 UNLESS OTHERWISE NOTED



NOTE: CONTRACTOR SHALL VERIFY & CHECK ALL DIMENSIONS & CONDITIONS AT BUILDING SITE

APPROVED *F. Quier*
 STATE HIGHWAY ENGINEER



MAINTENANCE SHOP BUILDING
 FOR THE STATE OF IDAHO
 DEPARTMENT OF HIGHWAYS
 STRAWBERRY GLENN, ADA COUNTY, IDAHO

DATE: WAYLAND & FENNELL
 OCT. C.W. WAYLAND - C.W. WAYLAND
 1963 JACK T. WOODMANSEE, ASSOC. ARCHITECTS
 BOISE IDAHO

SHEET **E3**