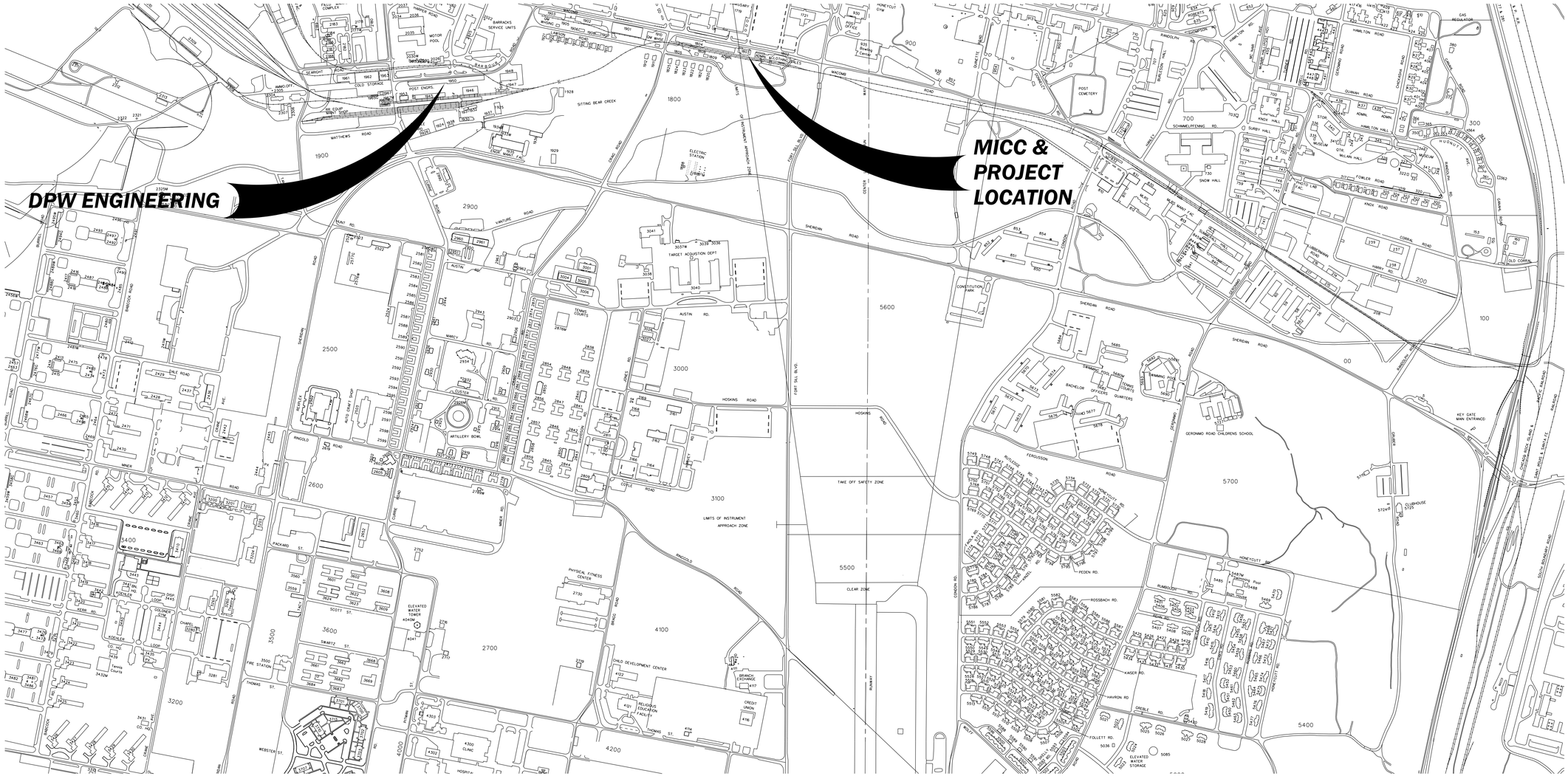
BUILDING 1803
REPAIR /REPLACE ROOF

DRAWING INDEX

SHT. REF. NO.	REVISION NO.	
GI-001		TITLE SHEET, LOCATION MAP AND DRAWING INDEX
A-100		ORIGINAL AS-BUILTS - ELEVATIONS
A-101		ORIGINAL AS-BUILTS - ROOF DETAILS
A-102		ORIGINAL AS-BUILTS - DETAILS



1	4/9/2018	ADDED SHEET P-104, P-105, AND P-106.	TLY
REVISION	DATE	DESCRIPTION	BY
CHECKED BY:	FIRE CH	CHIEF, ENGR DIV	

Public Works

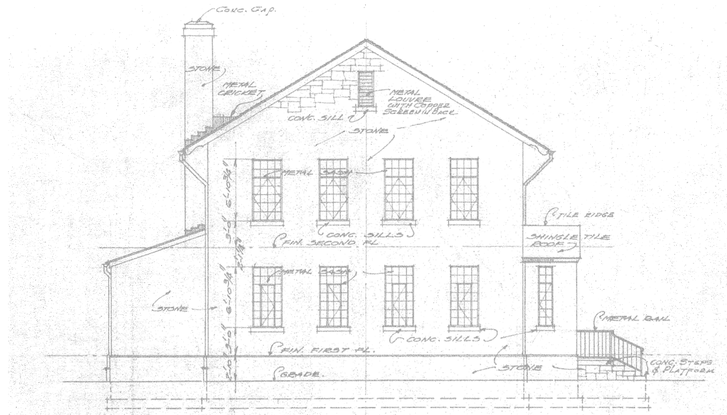
DIRECTORATE OF PUBLIC WORKS
FORT SILL, OKLAHOMA

FIRES Center of Excellence

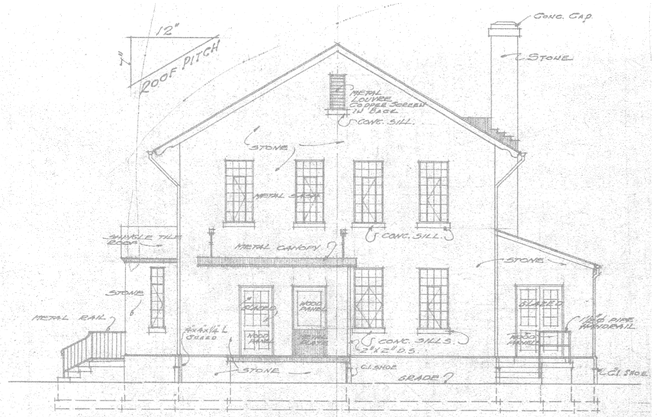
BUILDING 1803
REPAIR / REPLACE ROOF
TITLE SHEET, LOCATION MAP AND DRAWING INDEX

DESIGNED BY: T. YOUNG
DRAWN BY: TLY
DATE: JUNE 2019
PROJECT NO: KK00940-9J

DRAWING NO
19029
GI-001



1 A-100 | A-100 **LEFT SIDE ELEVATION**
SCALE: NOT TO SCALE



2 A-100 | A-100 **RIGHT SIDE ELEVATION**
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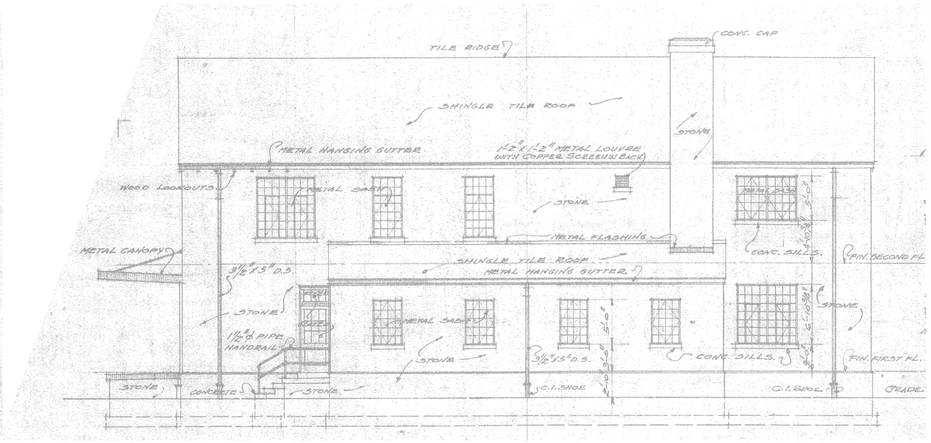

3 A-100 | A-100 **REAR ELEVATION**
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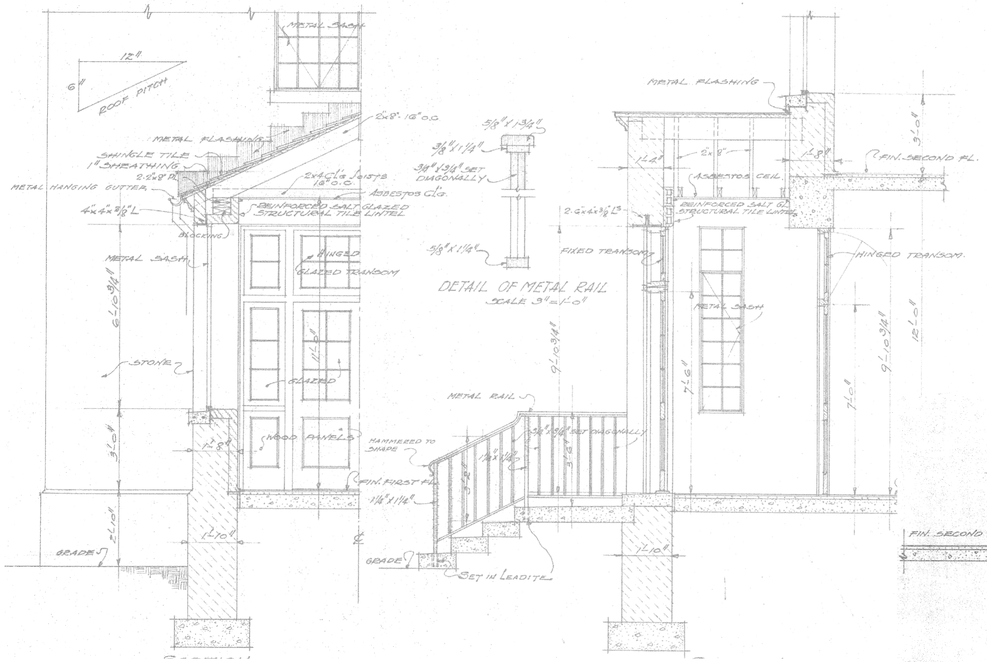
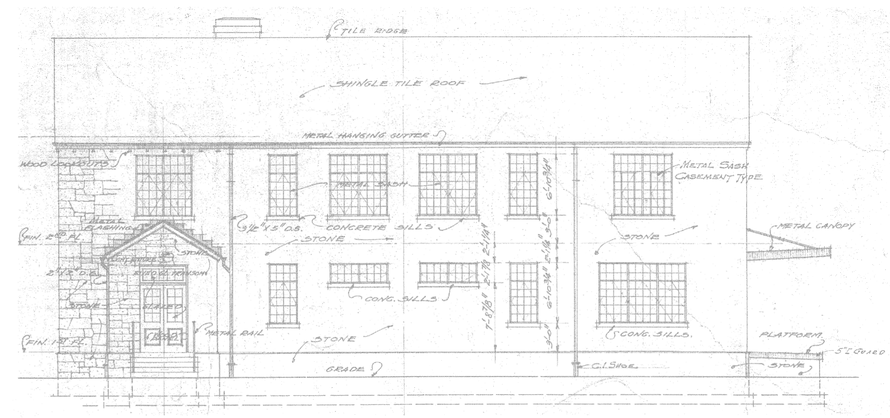
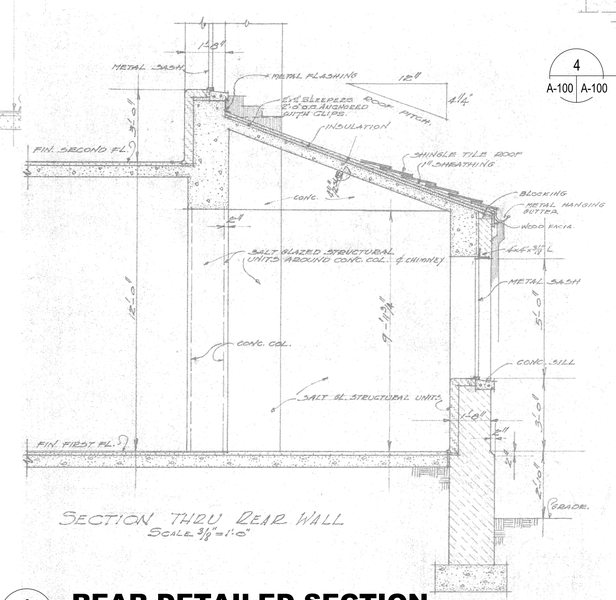


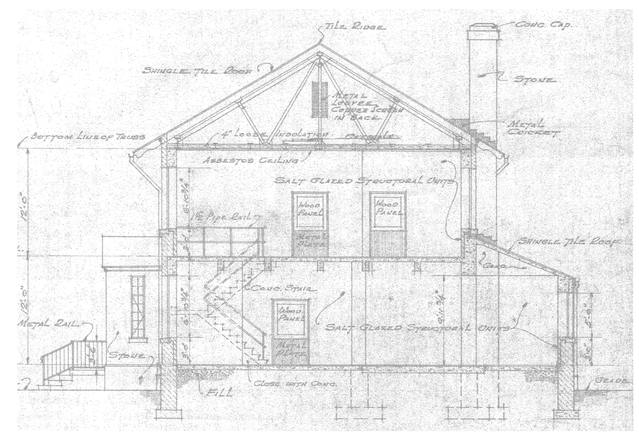
5 A-100 | A-100 **FRONT ENTRANCE DETAILED ELEVATION**
SCALE: NOT TO SCALE



4 A-100 | A-100 **FRONT ELEVATION**
SCALE: NOT TO SCALE



6 A-100 | A-100 **REAR DETAILED SECTION**
SCALE: NOT TO SCALE



7 A-100 | A-100 **CROSS SECTION**
SCALE: NOT TO SCALE

REVISION	DATE	DESCRIPTION	BY
CHECKED BY:	FIRE CH	CHIEF, ENGR DIV	

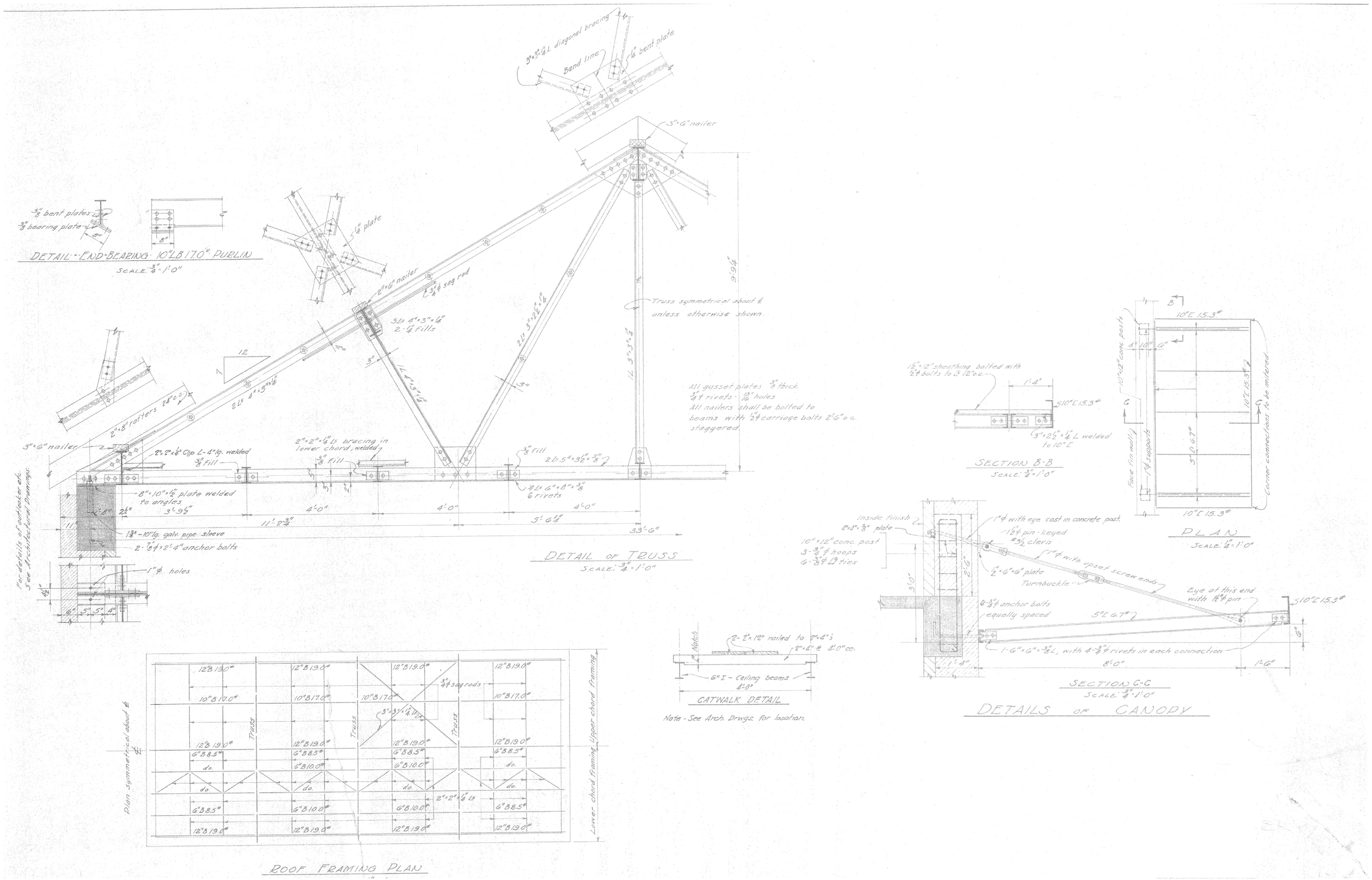
Public Works

DIRECTORATE OF PUBLIC WORKS
FORT SILL, OKLAHOMA
FIRES Center of Excellence

BUILDING 1803
REPAIR / REPLACE ROOF
ORIGINAL AS-BUILTS - ELEVATIONS

DESIGNED BY: T. YOUNG
DRAWN BY: TLY
DATE: JUNE 2019
PROJECT NO: KK00940-9J

DRAWING NO
19029
A-100



1
A-101 | A-101

ORGINAL AS-BUILT ROOF FRAMING AND DETAILS

SCALE: NOT TO SCALE

REVISION	DATE	DESCRIPTION	BY
CHECKED BY	FIRE CH	CHIEF, ENGR DIV	

Public Works

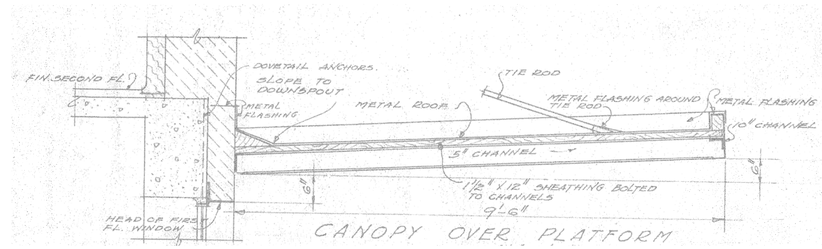
DIRECTORATE OF PUBLIC WORKS
FORT SILL, OKLAHOMA

Center of Excellence

BUILDING 1803
REPAIR / REPLACE ROOF
ORIGINAL AS-BUILTS - ROOF DETAILS

DESIGNED BY: T. YOUNG
DRAWN BY: TLY
DATE: JUNE 2019
PROJECT NO: KK00940-9J

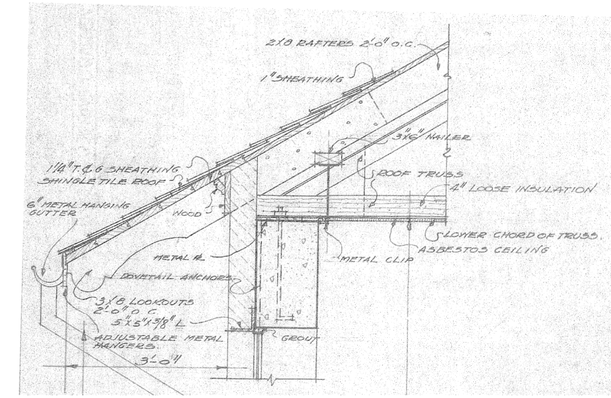
DRAWING NO
19029
A-101



1 A-101 | A-101

CANOPY DETAIL

SCALE: NOT TO SCALE



2 A-101 | A-101

ROOF SECTION DETAIL

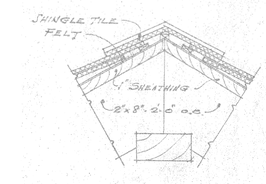
SCALE: NOT TO SCALE

REMOVE TREE AND GRIND STUMP FLUSH WITH FINISHED GRAD, TREAT SO AS TO INSURE THAT TREE DOES NOT RETURN. ALL MATERIAL BEING DEMOLISHED SHALL BE DISPOSED OF IN ACCORDANCE WITH STATE, FEDERAL REGULATIONS AND FT. SILL ENVIRONMENTAL QUALITY DIVISION REQUIREMENTS.

3 A-101 | A-101

TREE REMOVAL DETAIL

SCALE: NOT TO SCALE



4 A-101 | A-101

SHINGLE TILE RIDGE

SCALE: NOT TO SCALE

REVISION	DATE	DESCRIPTION	BY
CHECKED BY:	FIRE CH	CHIEF, ENGR DIV	

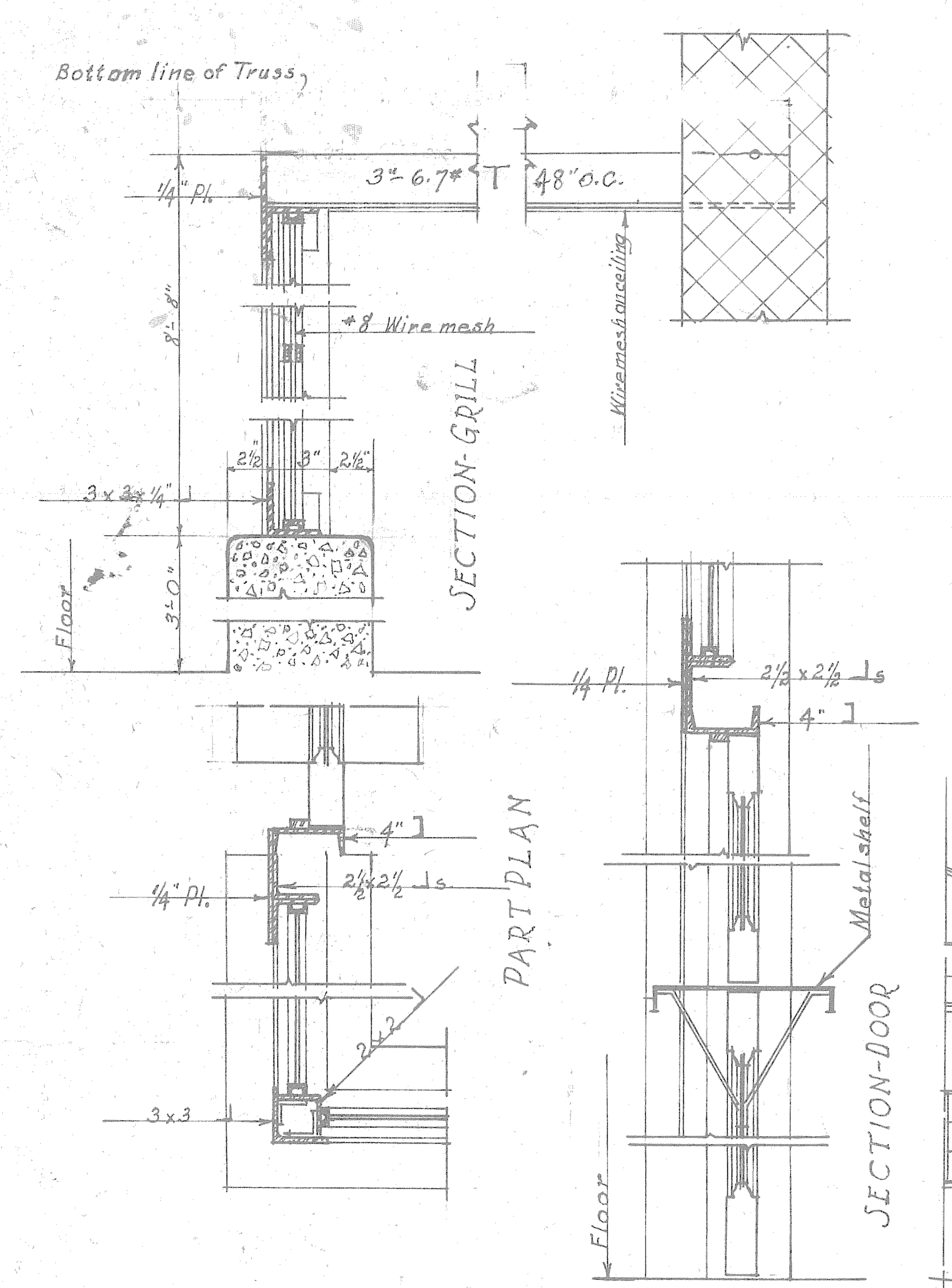
DIRECTORATE OF PUBLIC WORKS
FORT SILL, OKLAHOMA

FIRES Center of Excellence

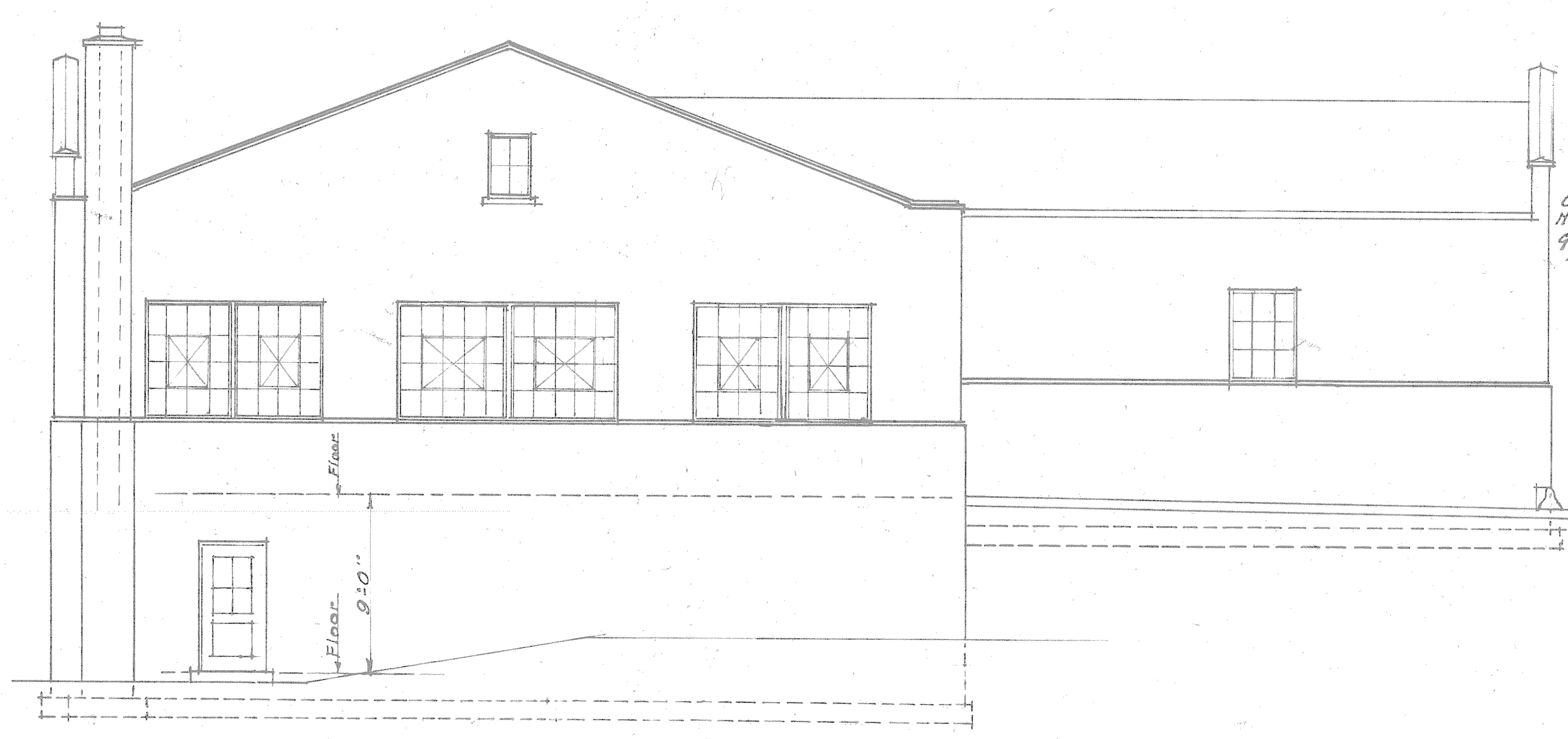
BUILDING 1803
REPAIR / REPLACE ROOF
ORIGINAL AS-BUILTS - DETAILS

DESIGNED BY *T. YOUNG*
DRAWN BY *TLY*
DATE *JUNE 2019*
PROJECT NO *KK00940-9J*

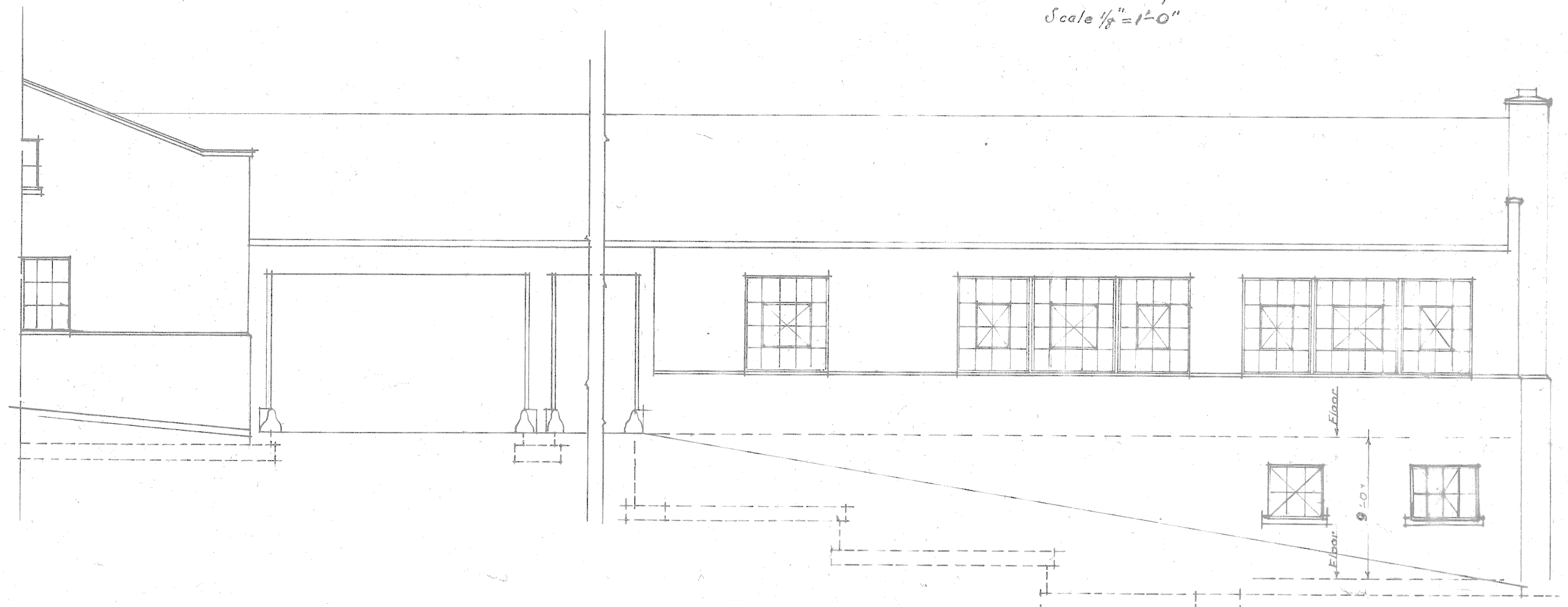
DRAWING NO
19029
A-102



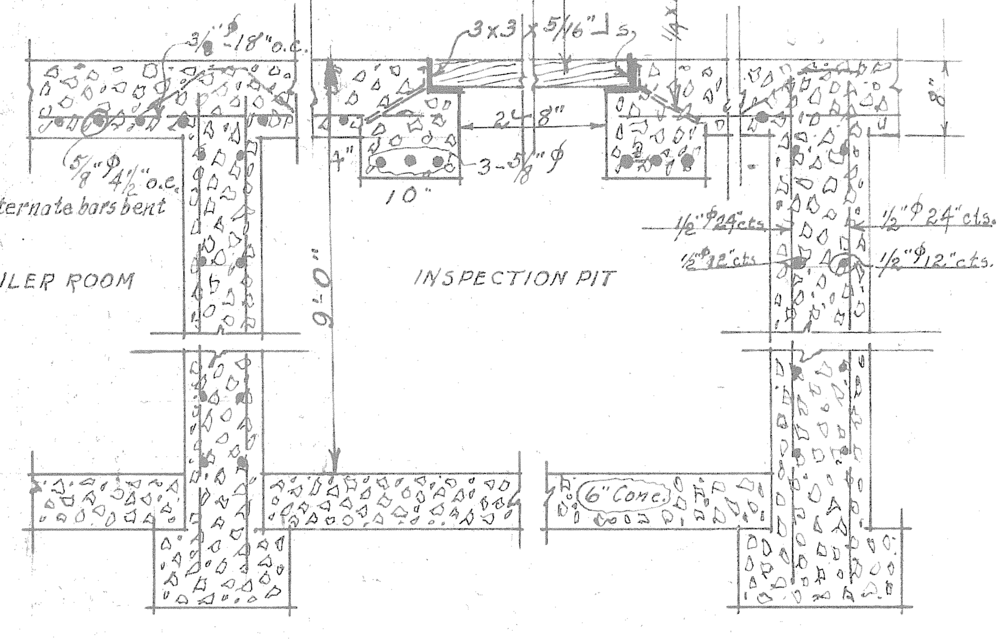
DETAILS - TOOL ROOM GRILL
Scale 1½"=1'-0"



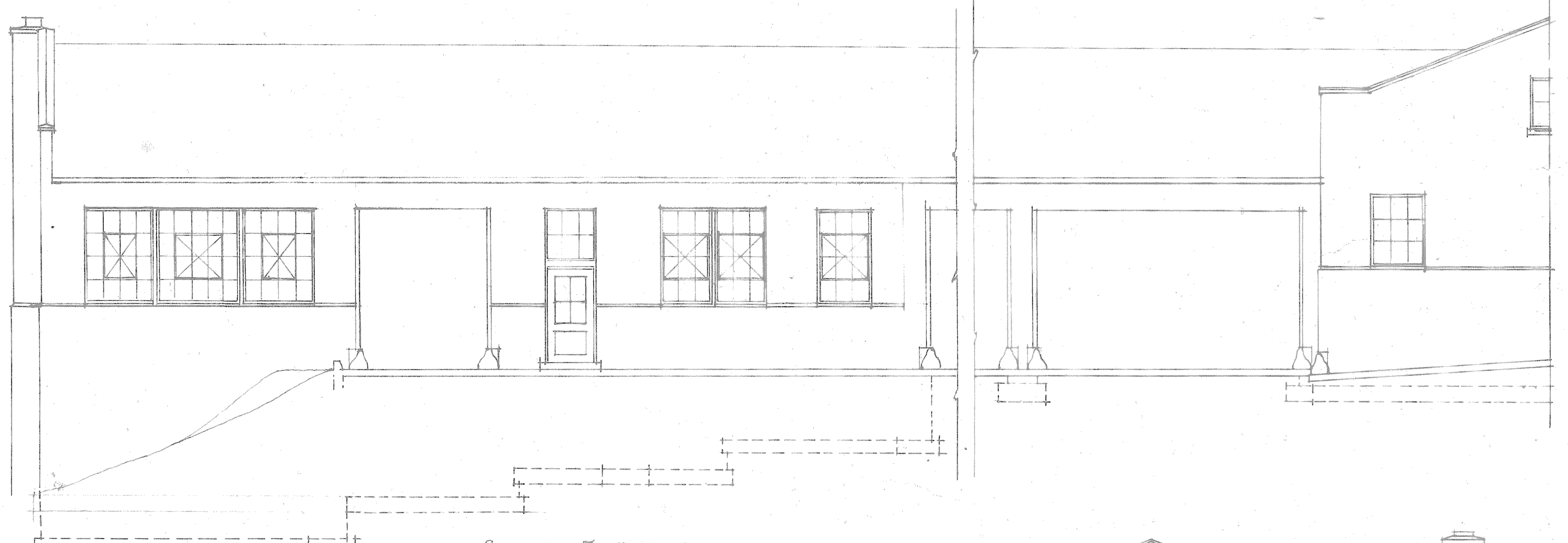
WEST ELEVATION
Scale ⅛"=1'-0"



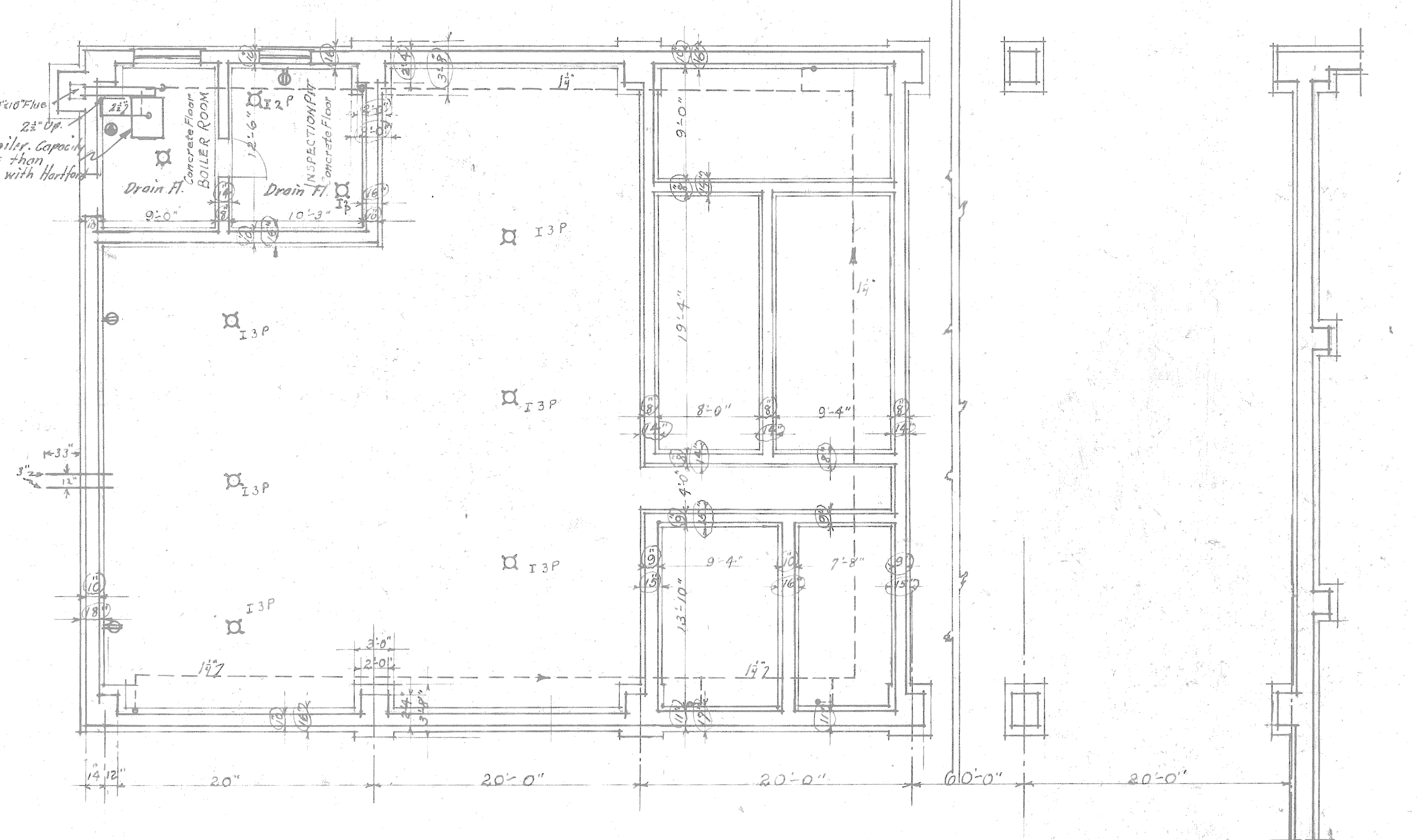
NORTH ELEVATION
Scale ⅛"=1'-0"



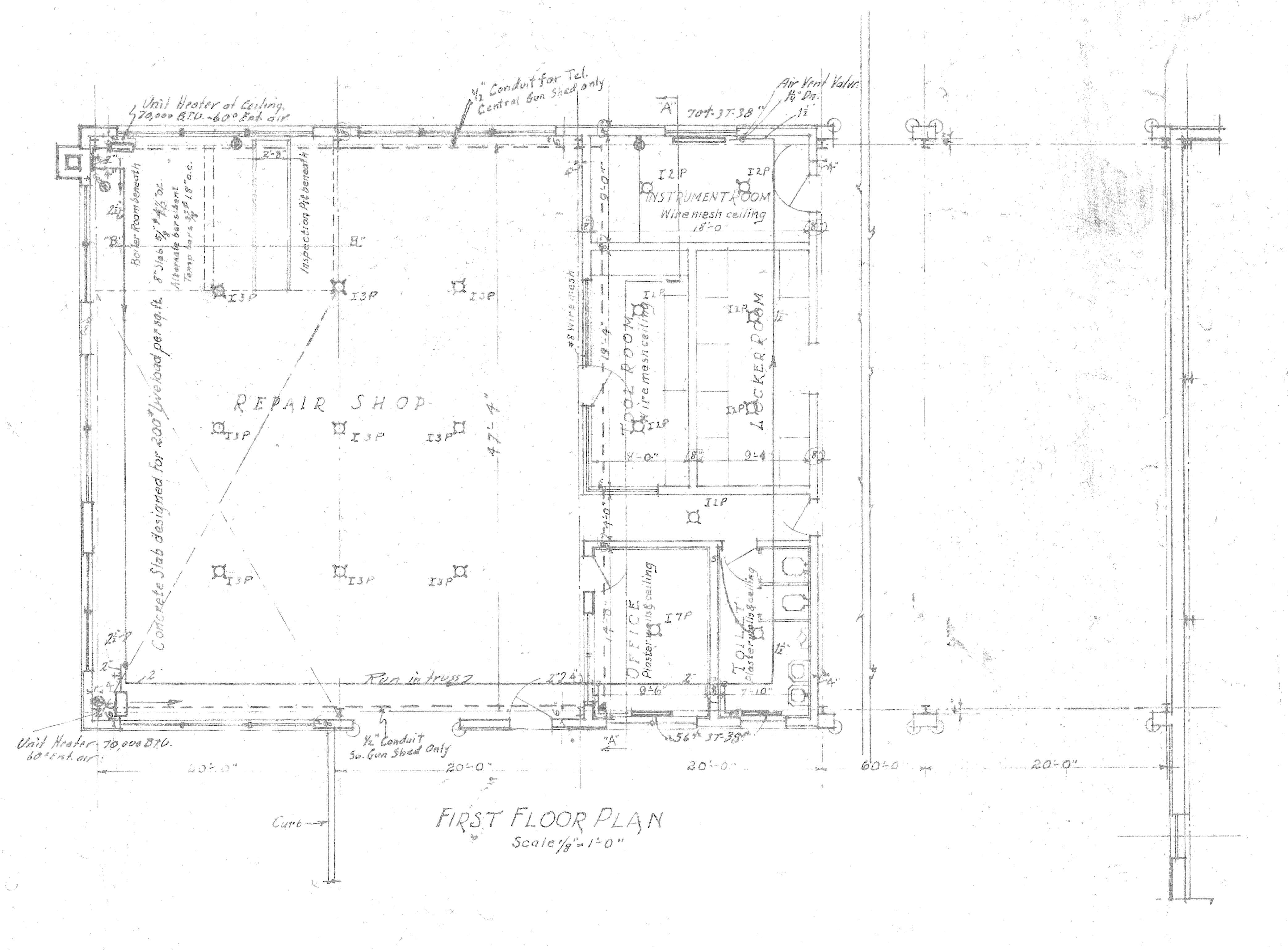
SECTION "B" "B" - FLOOR PLAN
Scale ¾"=1'-0"



SOUTH ELEVATION
Scale ⅛"=1'-0"



FOUNDATION PLAN
Scale ⅛"=1'-0"



FIRST FLOOR PLAN
Scale ⅛"=1'-0"

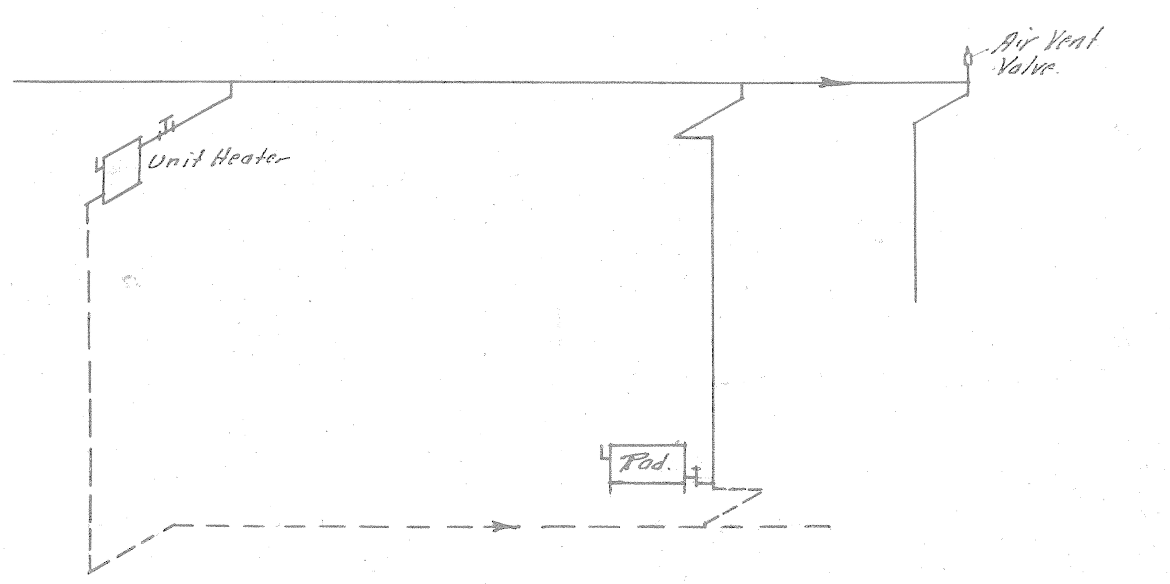
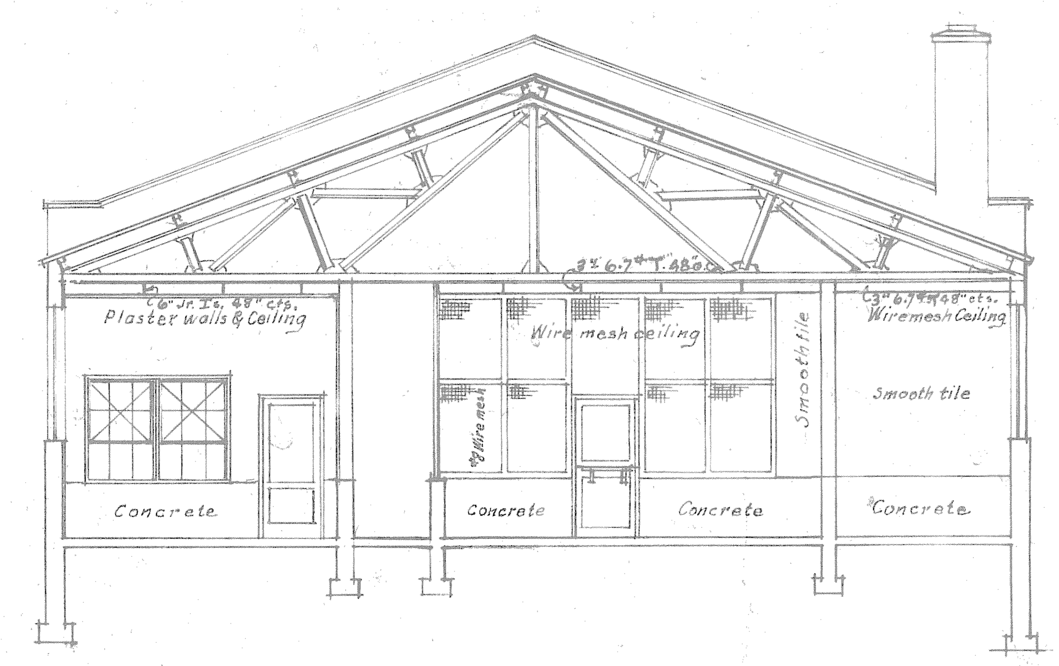


DIAGRAM OF HEATING CONNECTIONS
No Scale



SECTION "A" A - FLOOR PLAN
Scale ⅛"=1'-0"

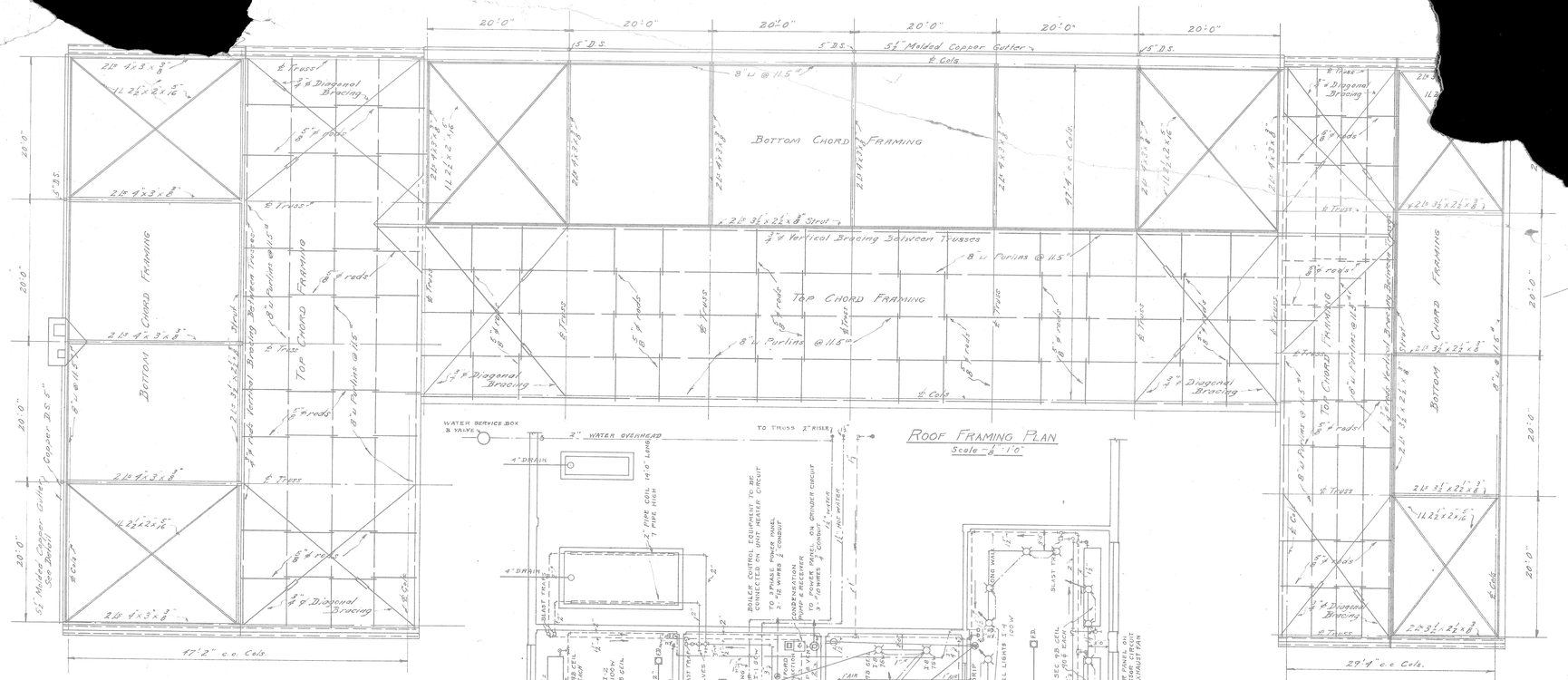
APPROVED BY: [signature] ATG. COMDG. OFFICER, FORT SILL, OKLA.

OFFICE · OF · THE · CONSTRUCTING · QUARTERMASTER
· FORT · SILL · OKLAHOMA ·

· GUN SHED ·
(REVISED PLAN)
· FORT SILL, OKLAHOMA ·

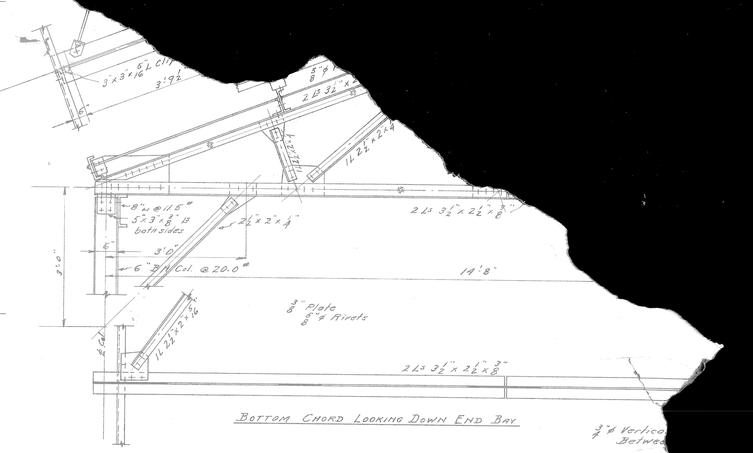
DRAWN BY	CHECKED BY	APPROVED:	DATE
GPY DALE	[signature] CONSTR. ENGR.	[signature] MAJOR, Q.M.C. CONSTRUCTING Q.M.	
TRACED BY GPY DALE			PLAN NUMBER 6143-1048

NORTH ELEVATION
Note: Depths of footings shown on drawings are approximate only. In no case shall any footing be less than 1'-6" below top of natural (unfilled) grade.
SECTION X-X
Scale-1/4"=1'-0"
SECTION Y-Y
Scale-3/4"=1'-0"
Note-At end columns, where through bolting is impossible, omit sleeve and provide 3/4"x12" bolts 3'-0" c.c. with 4" washers, imbedded in concrete.
WEST ELEVATION
SOUTH ELEVATION
Note: Fan not in contract. Leave hole for same only.
Note: All glass shall be double strength, as specified, instead of rough wire, as noted on drawings. Glass in toilet room window and door shall be Syenite-1/8" thick, as specified.
Note: All concrete filled tile lintels over openings more than 8'-0" in width shall be reinforced with 3-3/4" ϕ bars top and bottom. Tile lintels over openings less than 8'-0" wide shall have 3-1/2" ϕ bars top and bottom.
EAST ELEVATION
DETAIL AT "K"
Scale-3/4"=1'-0"
SECTION ON LINE A-A
SECTION ON LINE B-B
SECTION ON LINE C-C
OVERHEAD DOOR (SEE ALTERNATE)
Scale-1/8"=1'-0"
TYPICAL SHELF STACK
Scale-1/4"=1'-0"
TYPICAL LOCKER
Scale-3/8"=1'-0"
INSTRUMENT ROOM CABINET
Scale-3/8"=1'-0"
TYPICAL EAVE SECTIONS
Scale-3/4"=1'-0"
TYPICAL PARAPET SECTION
Scale-3/4"=1'-0"
SECTION THROUGH MONORAIL
Scale-1 1/2"=1'-0"
TYPICAL COLUMN BASE
Scale 1 1/2"=1'-0"
DETAILS OF WIRE MESH PARTITION AROUND TOOL ROOM
Plan and Elevations-Scale-1/8"=1'-0"
Sections Scale-1 1/2"=1'-0"
TYPICAL SPLASH BLOCK
Scale-3/4"=1'-0"
TYPICAL LOUVRE DETAILS
Scale-3/4"=1'-0"
SCALE-1/8"=1'-0" AND AS NOTED OTHERWISE
CONSTRUCTION DIVISION
OFFICE OF THE CONSTRUCTING QUARTERMASTER
FORT SILL, OKLA.
GUN SHED
FOR A
FIRING BATTERY-FIELD ARTILLERY
ELEVATIONS-SECTIONS & DETAILS
APPROVED BY Wm. Cruikshank BRIG. GEN. U.S.A. COM. F.A.S. FT. SILL, OKLA.
DRAWN BY T.R.Harper
TRACED BY T.R.Harper
CHECKED BY E.S.Huntington
APPROVED
CAPT. Q.M.C. CONSTRUCTING QUARTERMASTER
DATE NOV. 1, 193



Roof Framing Plan

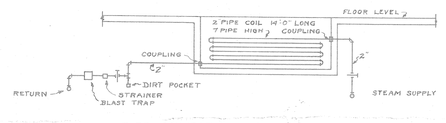
Scale – ⅛" = 1'-0"



Bottom Chord Looking Down End Bay

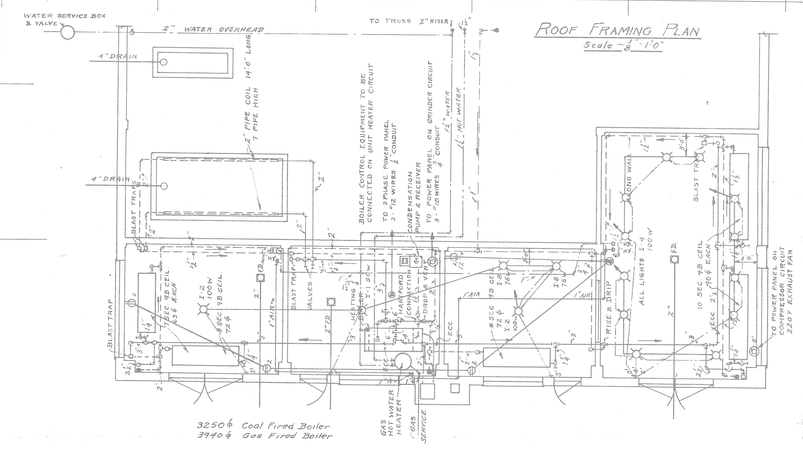
Roof Truss Truck Shed

Scale – ⅜" = 1'-0"



Pipe Connections for Tank

~No Scale~

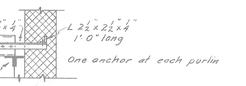


3250# Coal Fired Boiler
3140# Gas Fired Boiler

Radiator Connections			
Pipe Size	Supply Horizontals	Supply Verticals & Valves	Return
¾"		0 - 30#	½"
1"	0 - 26#	31 - 56#	½"
1¼"	27 - 58#	57 - 122#	½"
1½"	59 - 95#		

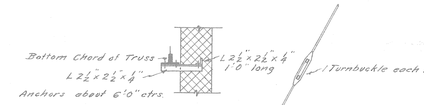
Basement Electrical, Heating & Plumbing

No Scale on Layouts



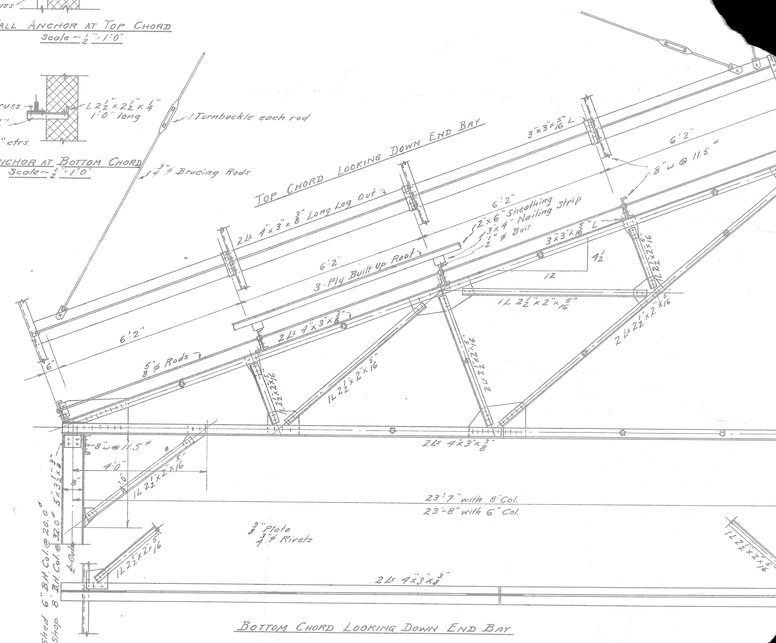
Wall Anchor at Top Chord

Scale – ½" = 1'-0"



Wall Anchor at Bottom Chord

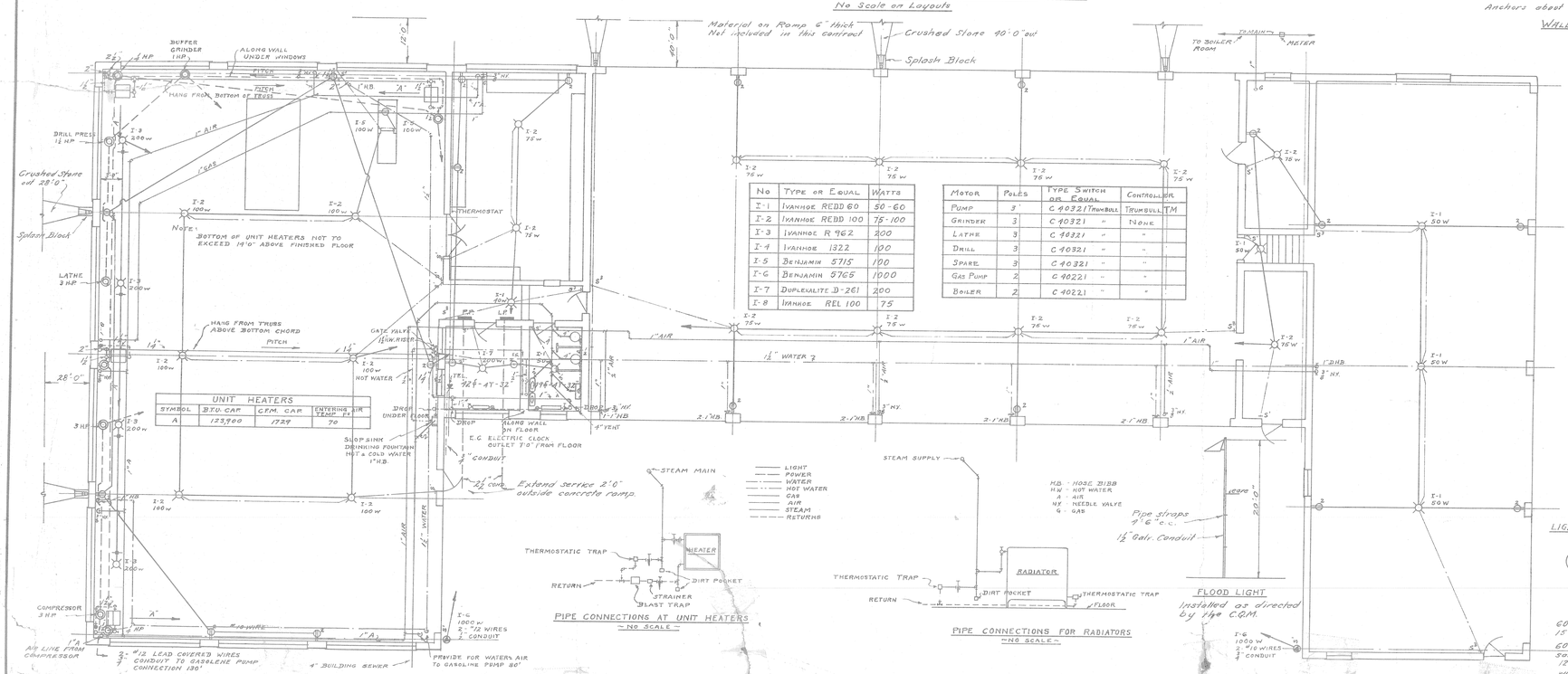
Scale – ½" = 1'-0"



Bottom Chord Looking Down End Bay

Roof Truss Gun Shed

Scale – ½" = 1'-0"



No	Type or Equal	Watts
I-1	Ivanhoe Redd 60	50-60
I-2	Ivanhoe Redd 100	75-100
I-3	Ivanhoe R 962	200
I-4	Ivanhoe 1322	100
I-5	Benjamin 5715	100
I-6	Benjamin 5765	1000
I-7	Duplexalite D-261	200
I-8	Ivanhoe REL 100	75

Motor	Poles	Type Switch or Equal	Controller
Pump	3	C 40321 Trumbull	Trumbull TM
Grinder	3	C 40321 "	None
Lathe	3	C 40321 "	"
Drill	3	C 40321 "	"
Spare	3	C 40321 "	"
Gas Pump	2	C 40221 "	"
Boiler	2	C 40221 "	"

Unit Heaters			
Symbol	B.T.U. Cap.	C.F.M. Cap.	Entering Air Temp. F°
A	123,900	1729	70

H.B. - H03E 2138
H.W. - Hot Water
A - Air
N.V. - Needle Valve
G - Gas

Light
Power
Water
Hot Water
Gas
Air
Steam
Returns

Pipe connections at unit heaters

~No Scale~

Pipe connections for radiators

~No Scale~

First Floor Electrical, Heating & Plumbing

No Scale on Layouts

Note: Plumbing, Heating and Electric lines are diagramatical. See specific requirements of specifications.

Lighting panel riser diagram

Power panel riser diagram

60 amp. main time fuses
15 amp. branch line fuses

60 amp. 2 blade, 2 use solid neutral safety main switch.
12-30 amp. Bus line branch circuits with single pole fuse cutouts and cartridge fuse connection.
10 lighting circuits to be connected on 1½ amp. 3 wire 220 volt 60 cycle single phase wattheur meter.
2 circuits for exterior flood lights to be 60 cycle 220 volt on 5 amp. 3 wire 220 volt single phase wattheur meter.

1-100 amp. 3 blade, 3 use main switch
1-60 amp. and 1-30 amp. 3 blade 3 use branch circuit on 35 amp. polyphase wattheur meter
1-30 amp. 3 blade 3 fuse circuit on 10 amp. single phase wattheur meter.

12-3 HP motors gas pump on one circuit
(3-#8 R.C. wires in 1" conduit.
(2-1½ HP, 1½ & 1-¾ HP motors on condensing pump on one circuit 3-#10 R.C. wires in ¾" conduit.
Unit heaters and boiler control equipment to be metered on 10 amp. meter. 2-#12 R.C. wires in ¾" conduit.

SCALE: ⅛" = 1'-0" AND AS NOTE

CONSTRUCTION DIV

OFFICE OF THE CONSTRUCTING

FORT SILL, O

GUN SHE

FOR A

FIRING BATTERY - FIELD

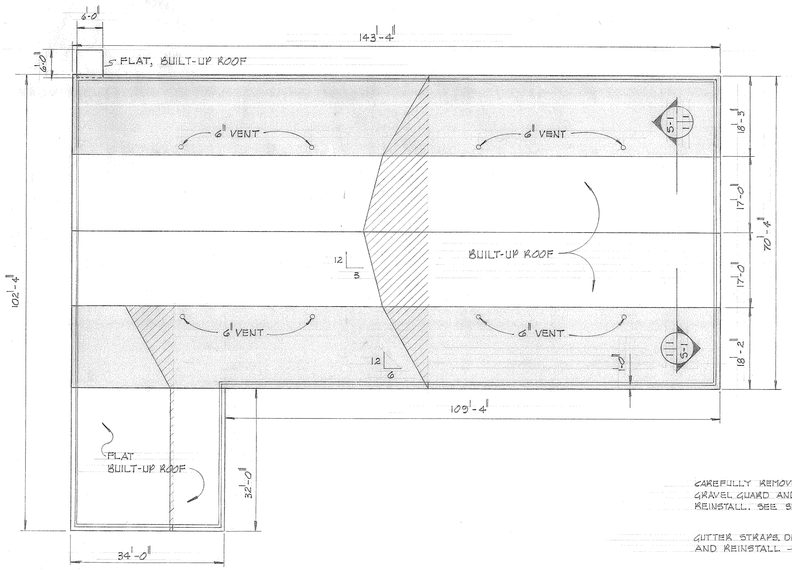
ROOF PLAN - M CHANICAL PLAN & ST

APPROVED

DRAWN BY

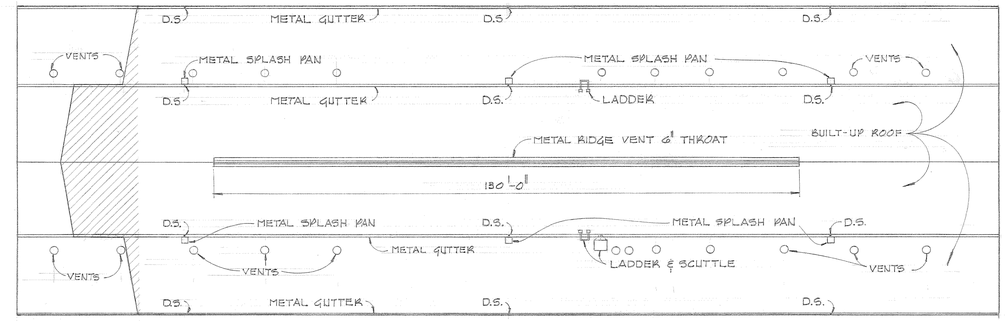
TRACED BY

Gun Shed



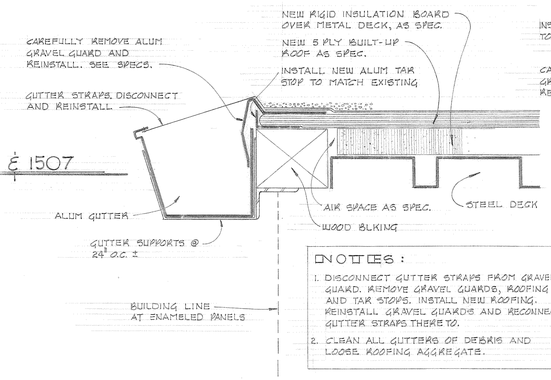
ROOF PLAN FOR BLDG. 1505, 1506 & 1507

SCALE: 1/16" = 1'-0"



ROOF PLAN BLDG. 2182

SCALE: 1/16" = 1'-0"

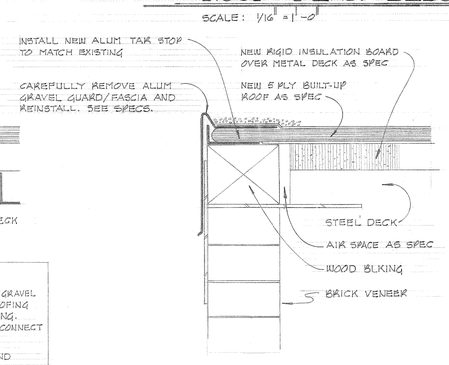


NOTES:

1. DISCONNECT GUTTER STRAPS FROM GRAVEL GUARD. REMOVE GRAVEL GUARDS, ROOFING AND TAR STOPS. INSTALL NEW ROOFING. REINSTALL GRAVEL GUARDS AND RECONNECT GUTTER STRAPS THERE TO.
2. CLEAN ALL GUTTERS OF DEBRIS AND LOOSE ROOFING AGGREGATE.

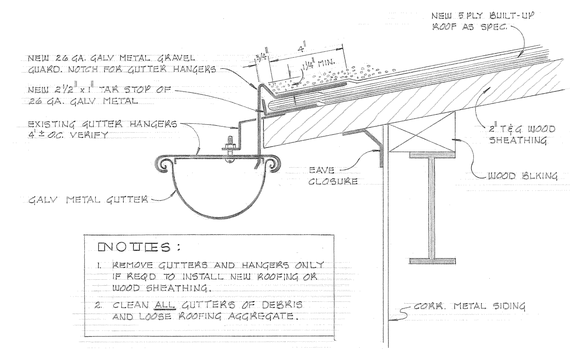
EAVE DETAIL, BLDG. 5684

N.T.S.



GABLE DETAIL, BLDG. 5684

N.T.S.

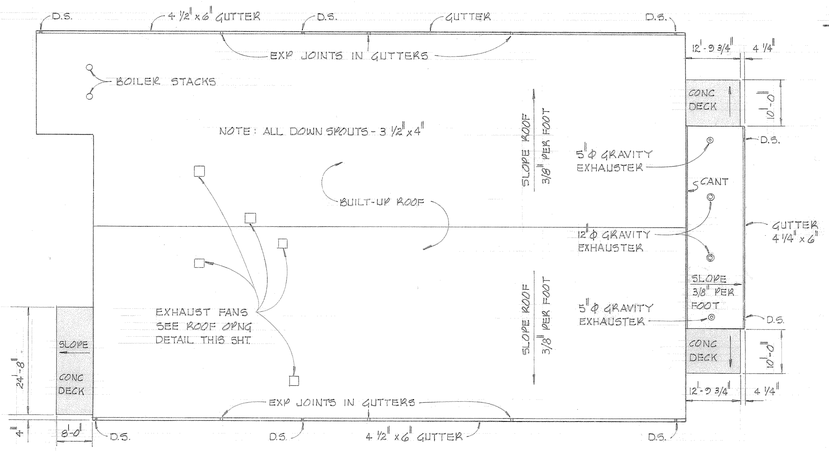


NOTES:

1. REMOVE GUTTERS AND HANGERS ONLY IF REQ'D TO INSTALL NEW ROOFING OR WOOD SHEATHING.
2. CLEAN ALL GUTTERS OF DEBRIS AND LOOSE ROOFING AGGREGATE.

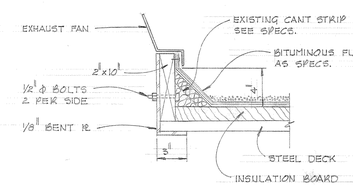
EAVE DETAIL, BLDG. 2182

N.T.S.



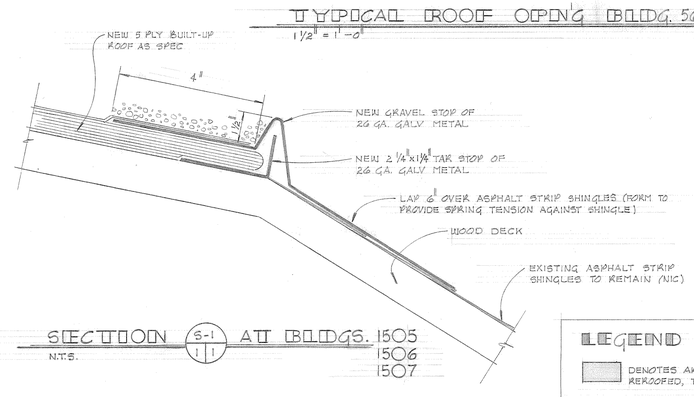
ROOF PLAN BLDG. 5684

SCALE: 1/16" = 1'-0"



TYPICAL ROOF OPNG BLDG. 5684

1 1/2" = 1'-0"



SECTION S-1 / 1 1 AT BLDGS. 1505, 1506, 1507

N.T.S.

GENERAL NOTES

1. TAR STOP SHALL BE SET IN MASTIC AND NAILED IN PLACE.
2. PITCH POCKET SHALL BE FORMED BY APPLYING 2 LAYERS OF ROOFING FELT BENEATH THE ROLL ROOFING WITH NOT LESS THAN 9" MOPPING ON DECK AND TURNED BACK 9" AND MOPPED OVER THE TOP ROOF PLY. THE BOTTOM LAYER OF FELT SHALL BE APPLIED IN A 9" WIDE STRIP OF BITUMINOUS CEMENT.
3. PRIME THE FLANGE OF THE GRAVEL GUARD EXTENDING ON THE ROOF WITH PRIMER AND ALLOW TO DRY THOROUGHLY.
4. THE GRAVEL GUARD SHALL BE EMBEDDED IN BITUMINOUS CEMENT AND NAILED ON TOP OF THE ENVELOPE FORMED BY THE FELT TURN BACK.
5. COVER FLANGE WITH A 6" AND A 8" WIDE STRIP OF 15 # SATURATED FELT EMBEDDED IN ASPHALT.
6. GRAVEL GUARDS AND TAR STOPS SHALL BE FABRICATED OF ZINC COATED (GALVANIZED) STEEL, 26 GA. TYPE I, CLASS "D", CONFORMING TO FED. SPECS QQ-S-775. FOR BUILDING 1505, 1506, 1507 AND 2182 ONLY.
7. ALUMINUM GRAVEL GUARD/FASCIA SHALL BE REMOVED AND REINSTALLED AS DIRECTED BY THE CONTRACTING OFFICER, BLDG. 5684
8. INSTALL ALL NEW ALUMINUM TAR STOPS TO MATCH EXISTING, BLDG 5684.
9. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS IN THE FIELD THAT WILL EFFECT HIS WORK.

LEGEND

DENOTES AREAS NOT TO BE REROOFED, THIS PROJECT.

Revision	Date	Description	By
1	02 AUG 76	ADDED BLDG. 3482	J.D.I.

Designed By: J.D.I.
Drawn By: L.H. JR
Checked By: J.L.W.
Submitted By: CHIEF ENGR. OFFICE

DIRECTOR OF FACILITIES ENGINEERING
FORT SILL, OKLAHOMA

REROOF BLDGS. 1505, 1506, 1507, 2182, 3482, & 5684

ROOF PLANS AND DETAILS

Approved: DEPUTY DIRECTOR
Approved: DIRECTOR — COL. C.E.

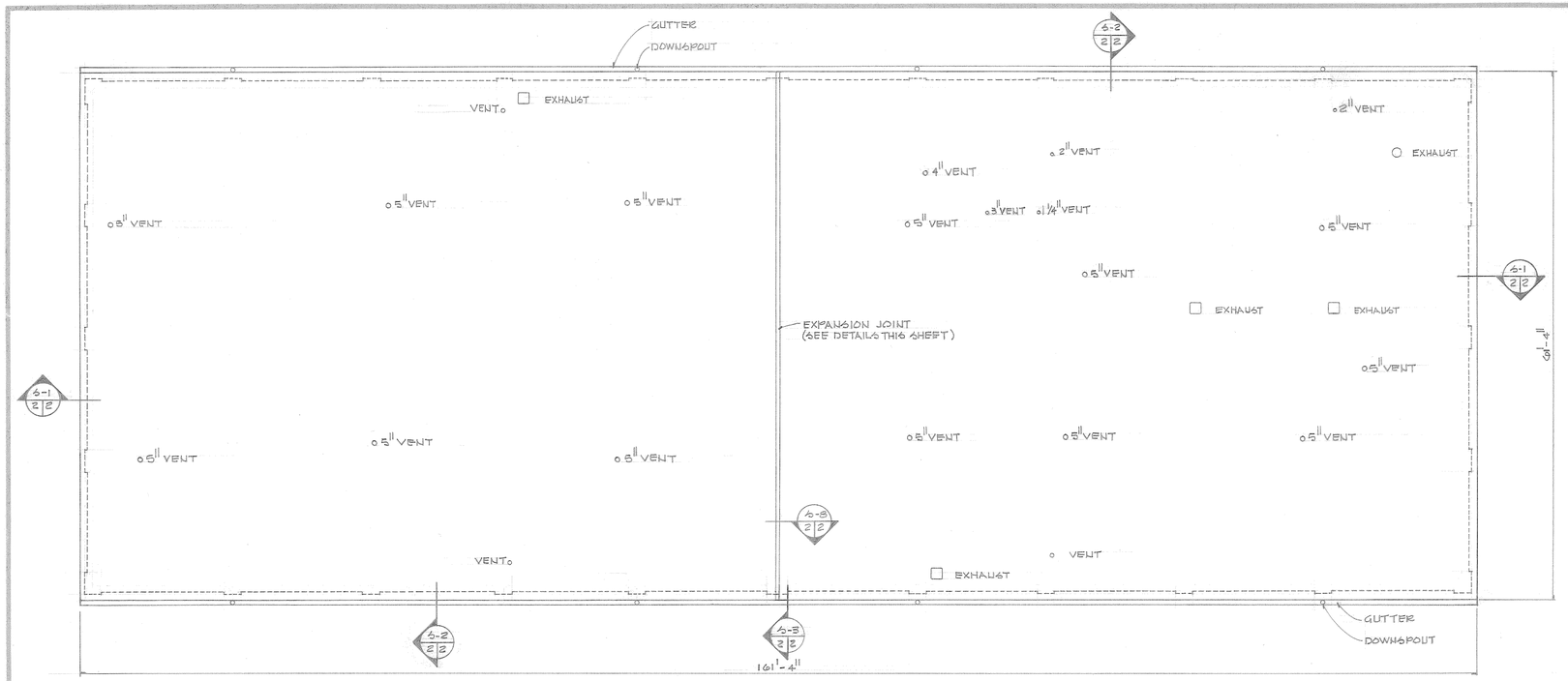
SCALE: A/S	FS NUMBER PR-S-528-75 PR-P-528-75	DATE 11 JUNE 1976	PLAN NUMBER A-76169-1

Approved: DATE

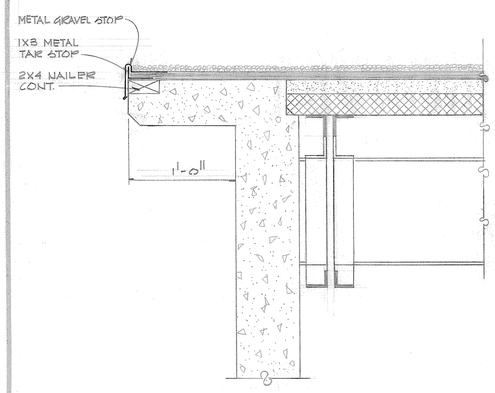
013827

MICROFILMED MAR 27 1987

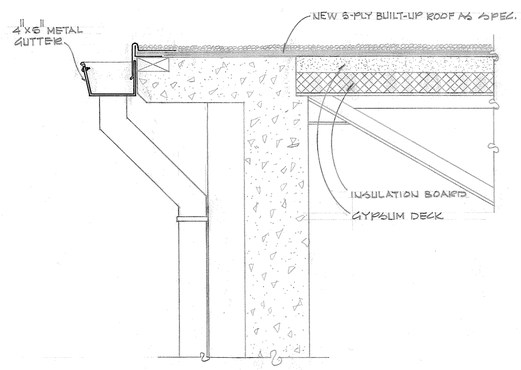
L338 Army-Ft. Sill, Okla.



ROOF PLAN - BLDG. 3482
SCALE: 1/8"=1'-0"



S-1 2/2 SECTION
SCALE: 1½"=1'-0"



S-2 2/2 SECTION
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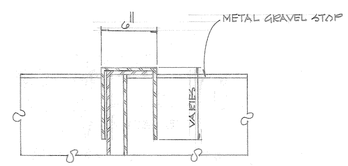
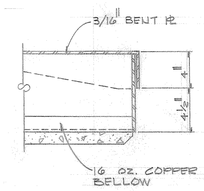


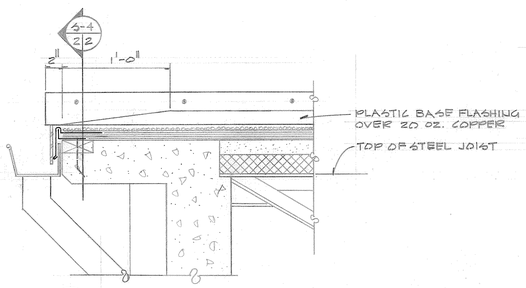
S-5 2/2 SECTION
SCALE: 1½"=1'-0"



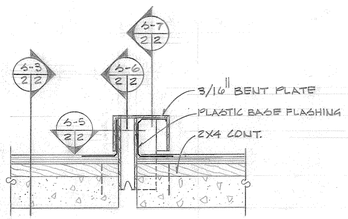
S-6 2/2 SECTION
SCALE: 1½"=1'-0"

GENERAL NOTES:

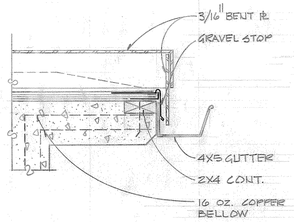
1. REMOVE 5-PLY BUILT-UP ROOF COMPLETELY TO GYPSUM DECK.
2. INSTALL NEW GRAVEL STOPS AND TAR STOPS.
3. PROPERLY FLASH ALL ROOF VENTS AND EXHAUST FANS.
4. INSTALL NEW 5-PLY BUILT-UP ROOF AS SPECIFIED TO ENTIRE BUILDING.
5. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS IN THE FIELD.



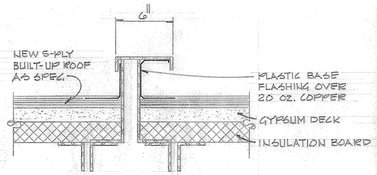
S-3 2/2 SECTION
SCALE: 1½"=1'-0"



S-4 2/2 SECTION (AT OVERHANG)
SCALE: 1½"=1'-0"



S-7 2/2 SECTION



S-8 2/2 SECTION (AT STEEL JOIST)
SCALE: 1½"=1'-0"

Revision	Date	Description	By
1	02 AUG 76	ADDED BLDG. 3482	J.D.I.

Designed By: J.D.I.
Drawn By: D.M.W.
Checked By: J.L.W.
Submitted By: CHIEF ENGR. OFFICE

DIRECTOR OF FACILITIES ENGINEERING
FORT SILL, OKLAHOMA

REROOF BLDGS. 1505, 1506, 1507, 2182, 3482, & 5684

ROOF PLAN AND DETAILS

Approved: DEPUTY DIRECTOR
Approved: DIRECTOR COL. M.E.

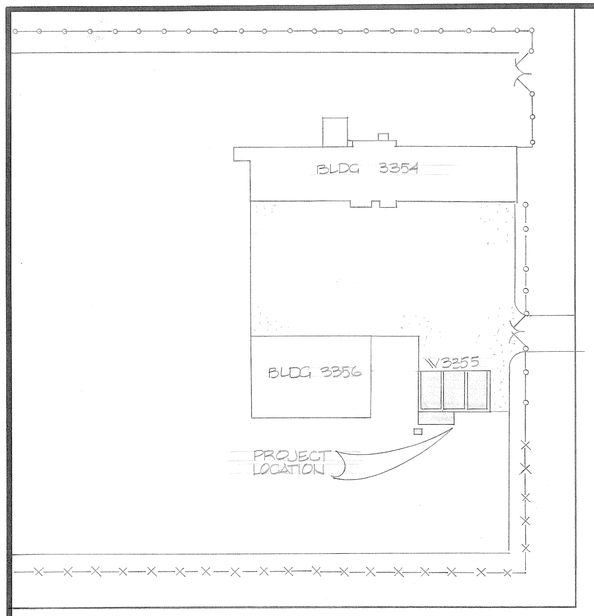
SCALE: A/S	FS NUMBER 1567-76	DATE 11 JUNE 1976	PLAN NUMBER A-76169-2

Approved:
DATE

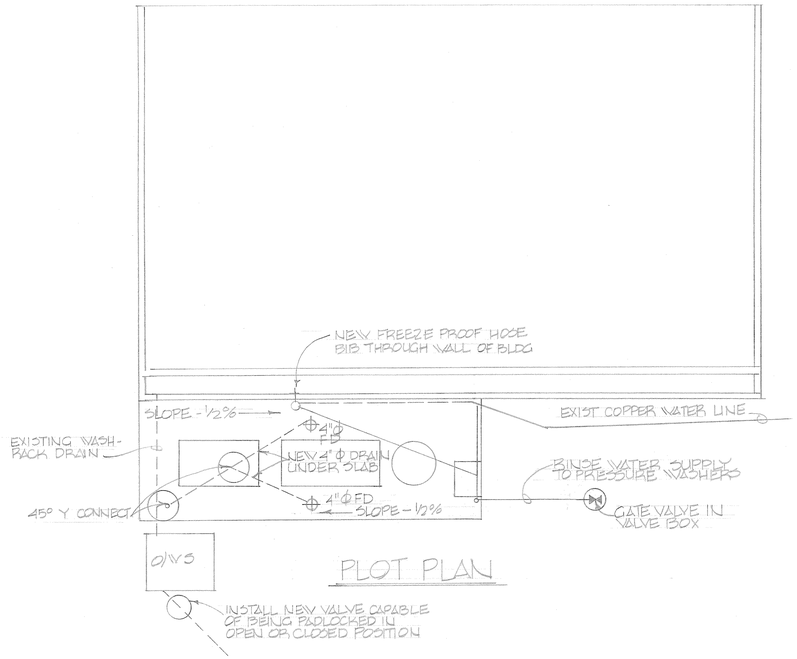
013828

MICROFILMED
MAR 27 1987

L336 Army-Ft. Sill, Okla.



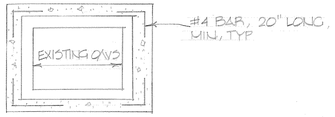
SITE PLAN
SCALE: 1" = 60'



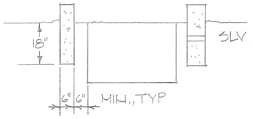
PLOT PLAN

ELEVATION OF CURTAIN WALL WILL BE 1" ABOVE FLOOR SLAB SURFACE OF EQUIP BLDG.

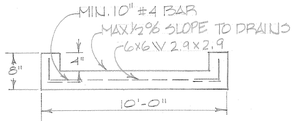
PROVIDE REMOVABLE ROOF STRUCTURE FOR CURTAIN WALL



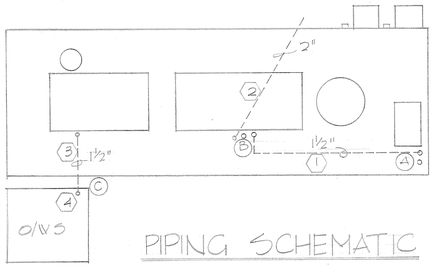
O/W S PLAN



O/W S CURTAIN WALL SEC.



BLDG FLOOR SLAB



PIPING SCHEMATIC

(A) RINSE WATER SUPPLY TO PRESSURE WATER.

(B) RINSE WATER SUPPLY TO RGF SERIES II.

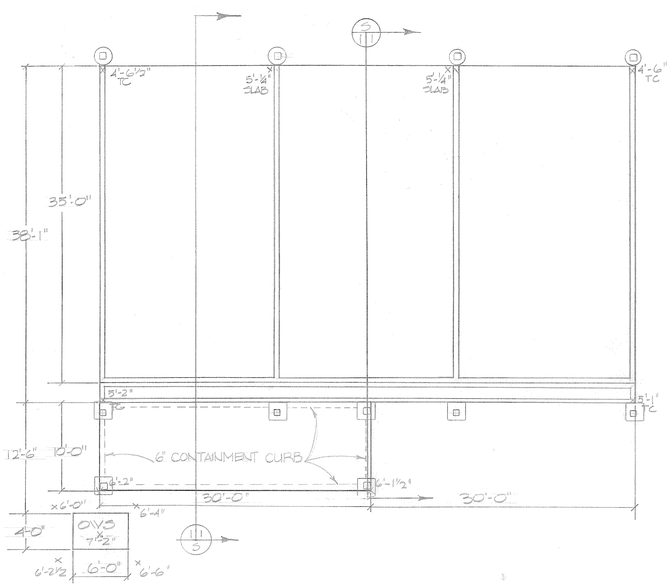
(C) ALL EXPOSED PIPING 18" ABOVE FINISHED FLOOR

(1) 1 1/2" SUPPLY LINE THROUGH CONCRETE FROM RGF SERIES II TO PRESSURE WASHERS.

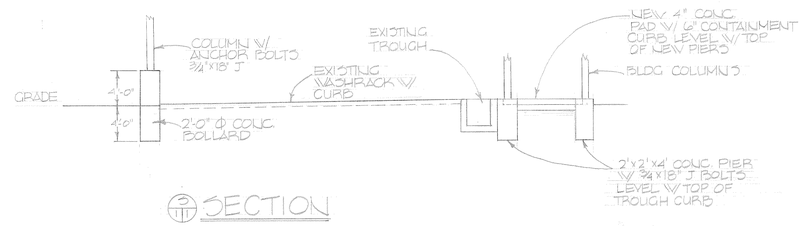
(2) 2" BACKFLUSH LINE THROUGH CONCRETE FROM RGF SERIES II TO TRENCH.

(3) 1 1/2" COLLECTION LINE THROUGH CONCRETE FROM SUMP TO RGF SERIES I

(4) ALL PIPING SHALL BE SCHEDULE 40 PVC & SHALL BE SLEEVED THROUGH CONCRETE SLAB.



WASHRACK FOUNDATION
SCALE: 1/8" = 1'-0"



SECTION

AS BUILTS SUBMITTED BY
GWH / FT. SILL JOINT VENTURE, INC.

REVISION	DATE	DESCRIPTION	BY
1	0-95	REVISED AS-BUILT GWH JOB # 427	SW

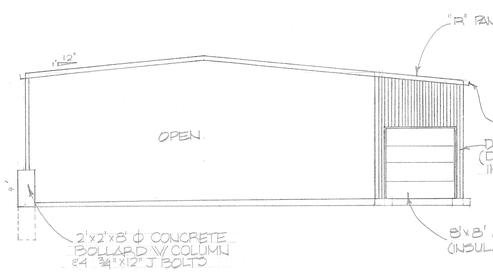
DESIGNED BY	DEPARTMENT OF THE ARMY JOB ORDER CONTRACTING FORT SILL, OKLAHOMA
DRAWN BY SW	
CHECKED BY	3355 WASHRACK RENOVATION
SUBMITTED BY CHIEF, ENGR DIV	PLAN & MECHANICAL
APPROVED DEPUTY DIRECTOR	APPROVED DIRECTOR COL CE

D.O. NUMBER	INVITATION NO	DATE	DRAWING NO
424	WX40008-5P	1-19-95	JOC -1 OF 4

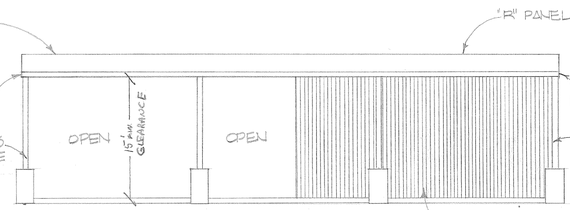
ZG2:[300117]JOCCS.DGN;1
CONNERMB
17-JAN-1995 09:02

P-28
5-18

499-1

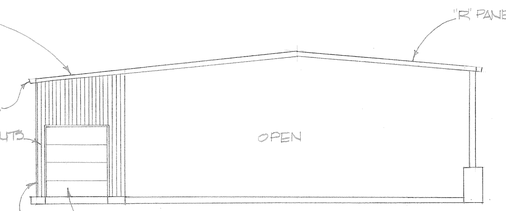


WEST

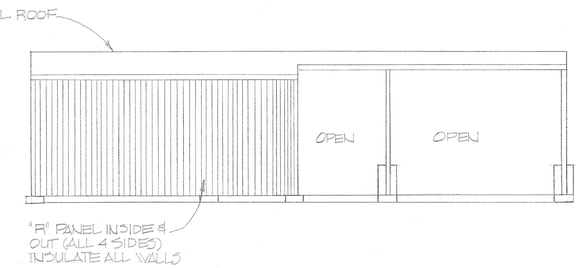


NORTH

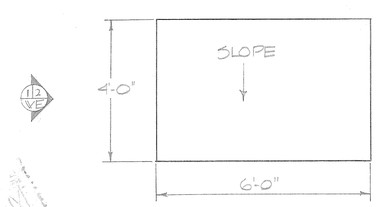
SCALE: 1/8"=1'-0"



EAST

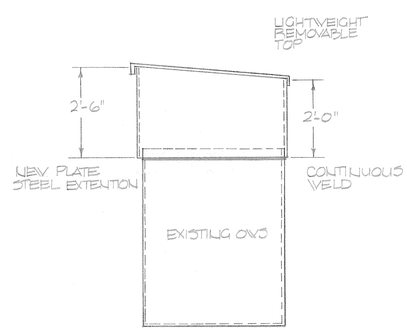


SOUTH



OIL/WATER SEPARATOR PLAN

SCALE: 1/2"=1'-0"



WEST ELEVATION

AS BUILTS SUBMITTED BY

GWH / FT. SILL JOINT VENTURE, INC.

REVISION	DATE	DESCRIPTION	BY
1	1-27-95	ADDED CONC. BOLLARDS	

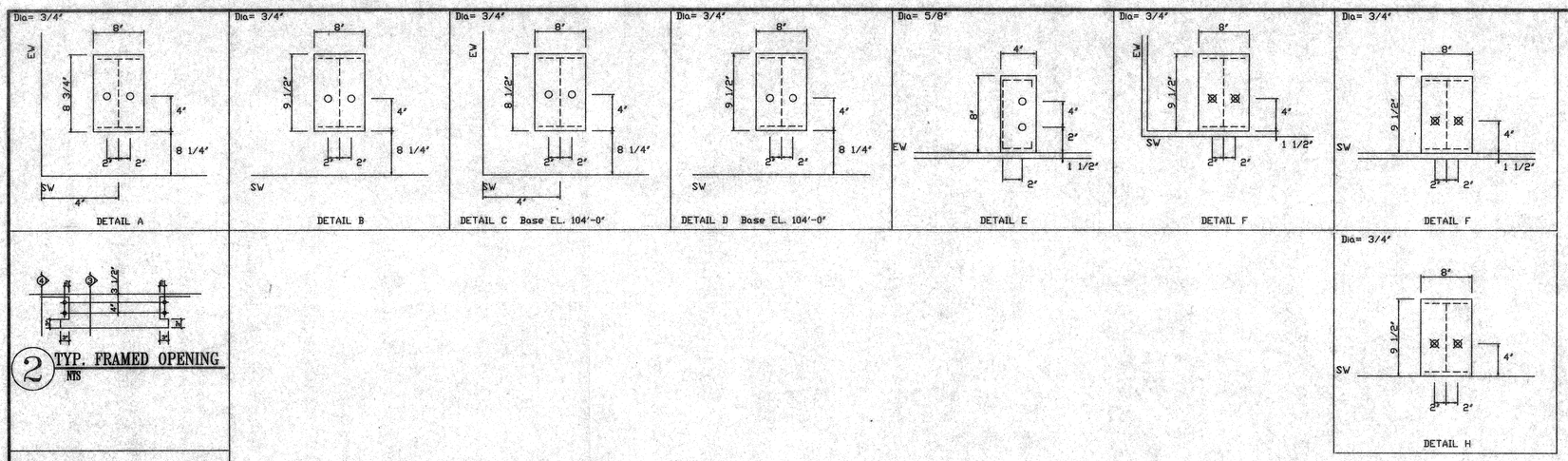
DESIGNED BY	DEPARTMENT OF THE ARMY JOB ORDER CONTRACTING FORT SILL, OKLAHOMA
DRAWN BY SW	
CHECKED BY	WASHRACK 3355
SUBMITTED BY CHIEF, ENGR DIV	ELEVATION 3
APPROVED DEPUTY DIRECTOR	APPROVED DIRECTOR COL CE

D.O. NUMBER	INVITATION NO	DATE	DRAWING NO
		1-19-95	JOC - 2 OF 4

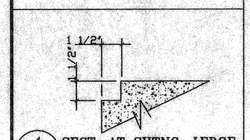
ZC2:[300117]JOCCS.DGN;1
CONNERMB
17-JAN-1995 09:02

P.28

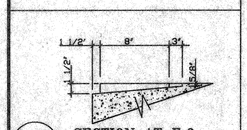
499-2 5-18



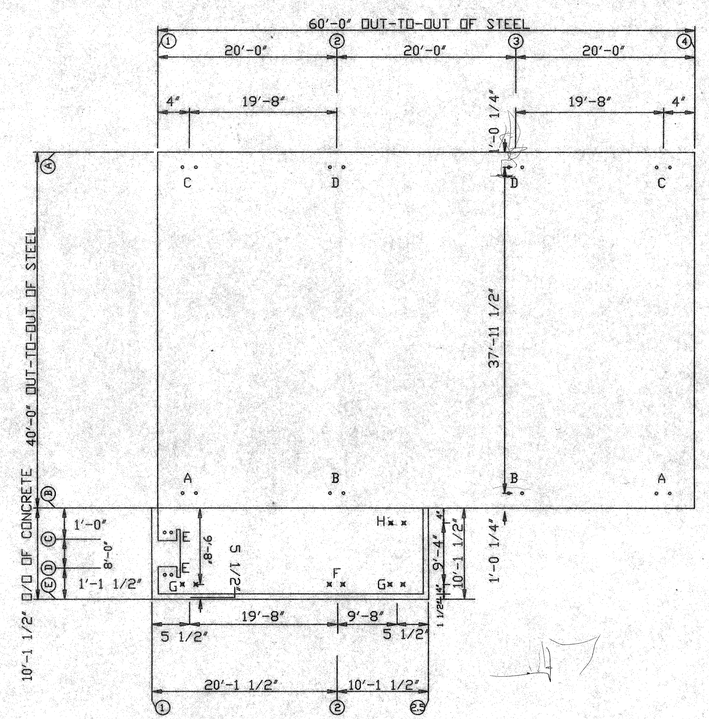
2 TYP. FRAMED OPENING
NTS



4 SECT. AT SHTNG. LEDGE
NTS

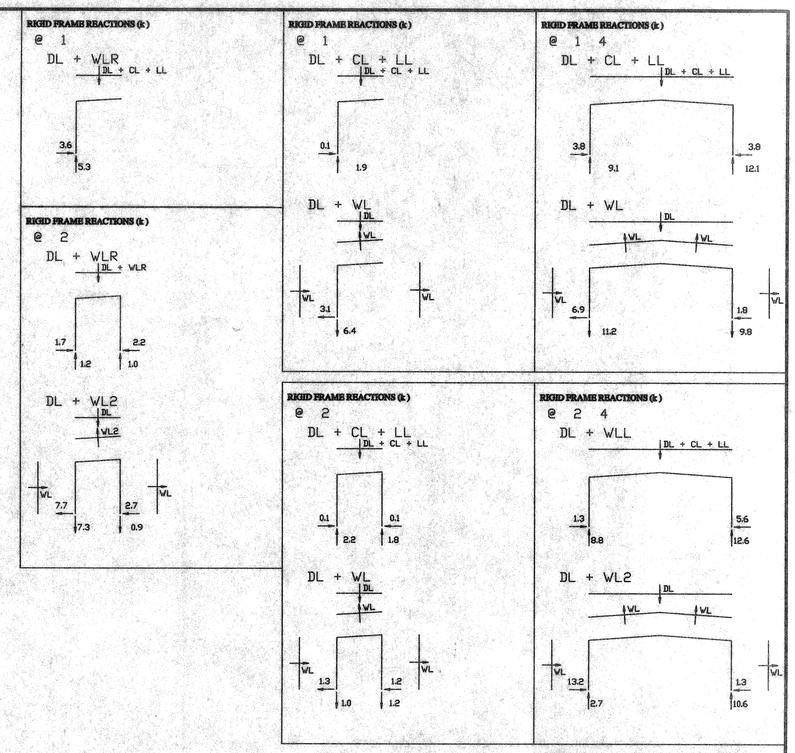


3 SECTION AT F.O.
NTS



ANCHOR BOLT PLAN
NOTE: All Base Plates @ 100'-0"(U.N.)

NOTE: ALL A-BOLTS @ COL.LINE A
TO SET 4'-0" ABOVE F.F.



ENDWALL COLUMN REACTIONS (k)

MAXIMUM VERTICAL DL+LL = 0.1
MAXIMUM VERTICAL DL+WL = -0.1
MAXIMUM HORIZONTAL DL+WL = 0.0

BRACING REACTIONS

Wall Id	Col Id	With Bracing (k) Horiz Reactn	Vert Reactn	No Bracing Load at Base Angle (lb/ft)
1				0
2	3	5.0	3.9	
3				0
4	2	5.0	3.9	

NOTES FOR REACTIONS

Building reactions are based on the following building data:

Width (ft)	=	40.0
Length (ft)	=	60.0
Eave Height (ft)	=	17.0/17.0
Roof Slope	=	1.0/ 1.0
Dead Load (psf)	=	3.0
Live Load (psf)	=	20.0
Snow Load (psf)	=	7.0
Wind Speed (mph)	=	80.0
Wind Code	=	BOCA 90
Exposure	=	C
Importance	=	1.00
Seismic Zone	=	2

ANCHOR BOLT SUMMARY

	Qnt	Loc	Dia (in)	Total Len (in)	Bend Len (in)	Proj (in)
○	20	RF	3/4"	18.00	3.00	2.50
⊕	4	EW	5/8"	18.00	3.00	2.50

GENERAL NOTES

6-23-95

GWH / FT. SILL JOINT VENTURE, INC.

⊕ Dia= 5/8"
○ Dia= 3/4"

ALLIANCE STEEL INC		GWH/FT SILL JNT VENTURE, INC	
PROJECT	GWH/FT SILL JNT VENTURE, INC.	ANCHOR BOLT PLAN	
ID	5-378 D.O.424	DESIGN:SD DRAFT:TS	CHECK:
PROJECT	WASH RACK WX0008-5P	DATE:6-7-95 SHEET: 1 OF 1	
ADDRESS	FORT SILL, OK	3OF 4	

4/99-3 3354 5-18