

REFERENCE NOTES

- 1 - EXISTING ROOF DRAIN TO REMAIN.
- 2 - EXISTING CONCRETE PAVERS TO REMAIN.
- 3 - EXISTING VINYL FENCE TO REMAIN.
- 4 - EXISTING VINYL FENCE GATE TO REMAIN
- 5 - EXISTING PAVERS AND SUPPORT SYSTEM TO REMAIN.
- 6 - EXISTING ROOFING MEMBRANE TO REMAIN. COVER AND PROTECT AS REQUIRED DURING DEMOLITION AND NEW CONSTRUCTION.
- 7 - EXISTING CONCRETE PAVERS TO BE REMOVED.
- 8 - EXISTING CONCRETE PAVERS AND SUPPORT SYSTEM TO BE REMOVED AND STORED FOR FUTURE USE.
- 9 - EXISTING VINYL FENCE SECTIONS (2) AND POST TO BE REMOVED AND STORED FOR FUTURE USE.
- 10 - EXISTING ROOF ACCESS DOOR.
- 11 - ROOF CURB TO REMAIN.



FACILITIES PLANNING
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DATE: JUNE 2020
DESIGNER: SM
DRAWN BY: SM

ADA CHECK:
CODE CHECK:
UTILITIES DIR:
STRUCTURAL:
PLANNING DIR:

CLIENT APPROVAL DATE

REVISIONS

BRIGHAM YOUNG
UNIVERSITY
NEW TEMPORARY ANTENNA ARRAY SYSTEM SHED
ENGINEERING AND TECHNOLOGY
WILFORD W. CLYDE BUILDING

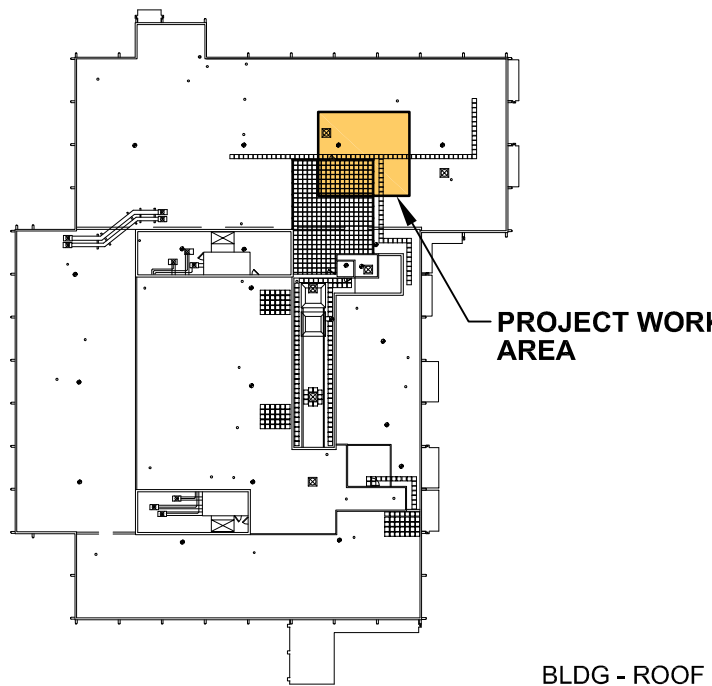


ROOF DEMOLITION
PLAN

WORK ORDER & SHEET NO.

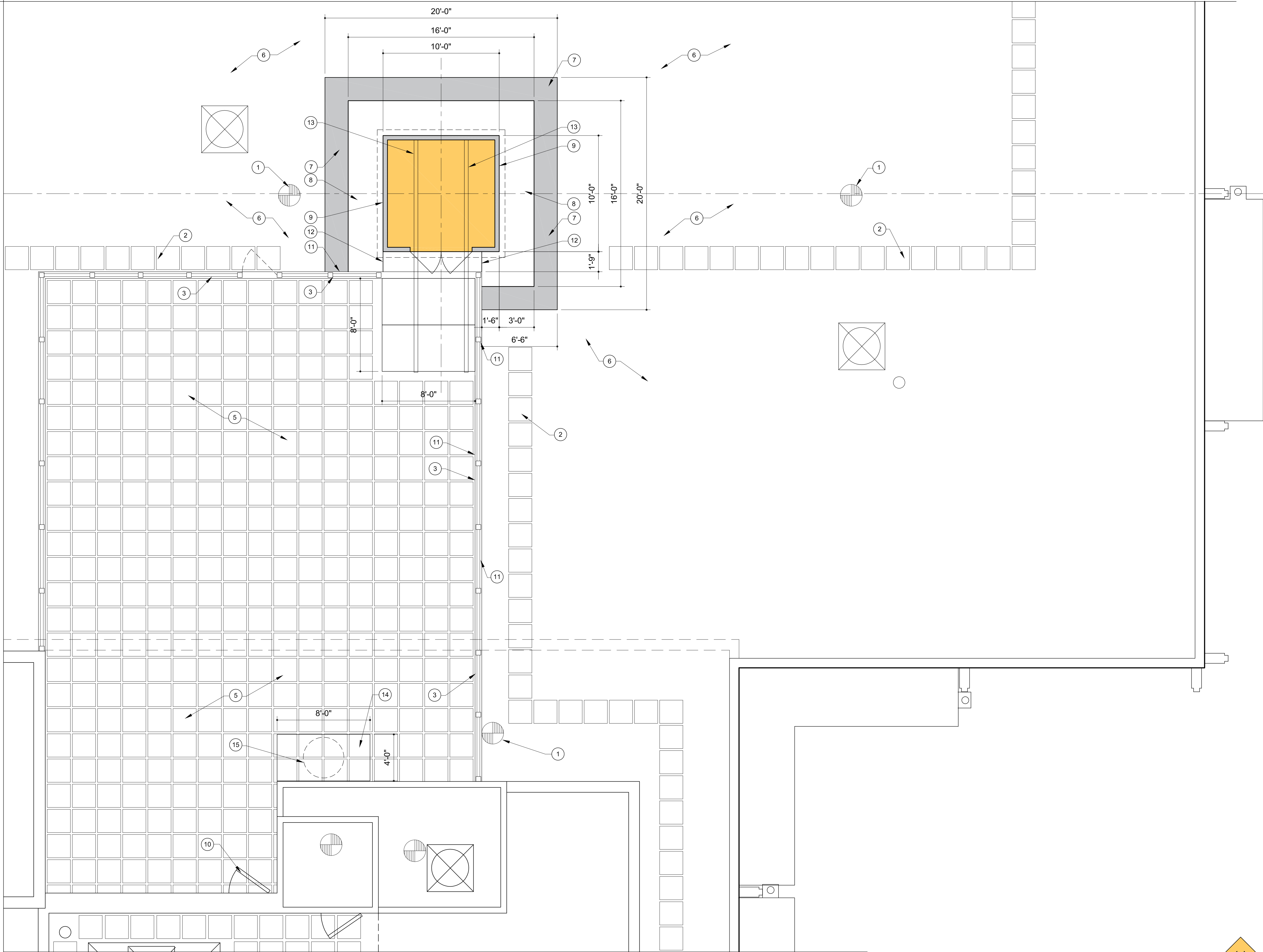
**K8557
A101**

CONSTRUCTION DOCUMENTS



PROJECT LOCATION PLAN

BLDG - ROOF



ROOF AND SHED LAYOUT PLAN
SCALE: 1/4" = 1'-0"

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- 3 - EXISTING VINYL FENCE TO REMAIN.
- 4 - EXISTING VINYL FENCE GATE TO REMAIN
- 5 - EXISTING PAVERS AND SUPPORT SYSTEM TO REMAIN.
- 6 - EXISTING ROOFING MEMBRANE TO REMAIN. COVER AND PROTECT AS REQUIRED DURING DEMOLITION AND NEW CONSTRUCTION.
- 7 - NEW ROOFING MEMBRANE TO BE INSTALLED OVER EXISTING MEMBRANE AS A PROTECTION SHEET FOR NEW STORAGE SHED - (20'-0"x 20'-0")
- 8 - NEW 2"x 12" TREATED DOUGLAS FIR BALLAST SUPPORT SHEATHING - (16'-0"x 16'-0").
- 9 - NEW STORAGE SHED - (10'-0"x 10'-0").
- 10 - EXISTING ROOF ACCESS DOOR.
- 11 - ROOF CURB TO REMAIN.
- 12 - NEW ACCESS RAMP CONSTRUCTION OF 2"x FRAMING WITH 3/4" PLYWOOD SHEATHING TOP AND BOTTOM AS REQUIRED - (1'-9" w x 8'-6" l)
- 13 - (2) NEW C4x 5.4x 20'-0" STEEL CHANNEL TRACKS TO BE SECURELY ATTACHED TO THE PLYWOOD. THIS IS A GUIDE FOR THE ANTENNA CART WHEELS, TRACKS TO BE SPACED THE PROPER DISTANCE FOR THE WHEELS TO ROLL ON.
- 14 - NEW 3/4" PLYWOOD SHEATHING ON TOP OF EXISTING CONCRETE PAVERS AND SUPPORT SYSTEM
- 15 - DASHED LINE INDICATES NEW COMPRESSOR - TO BE SUPPLIED BY CLIENT.



FACILITIES PLANNING

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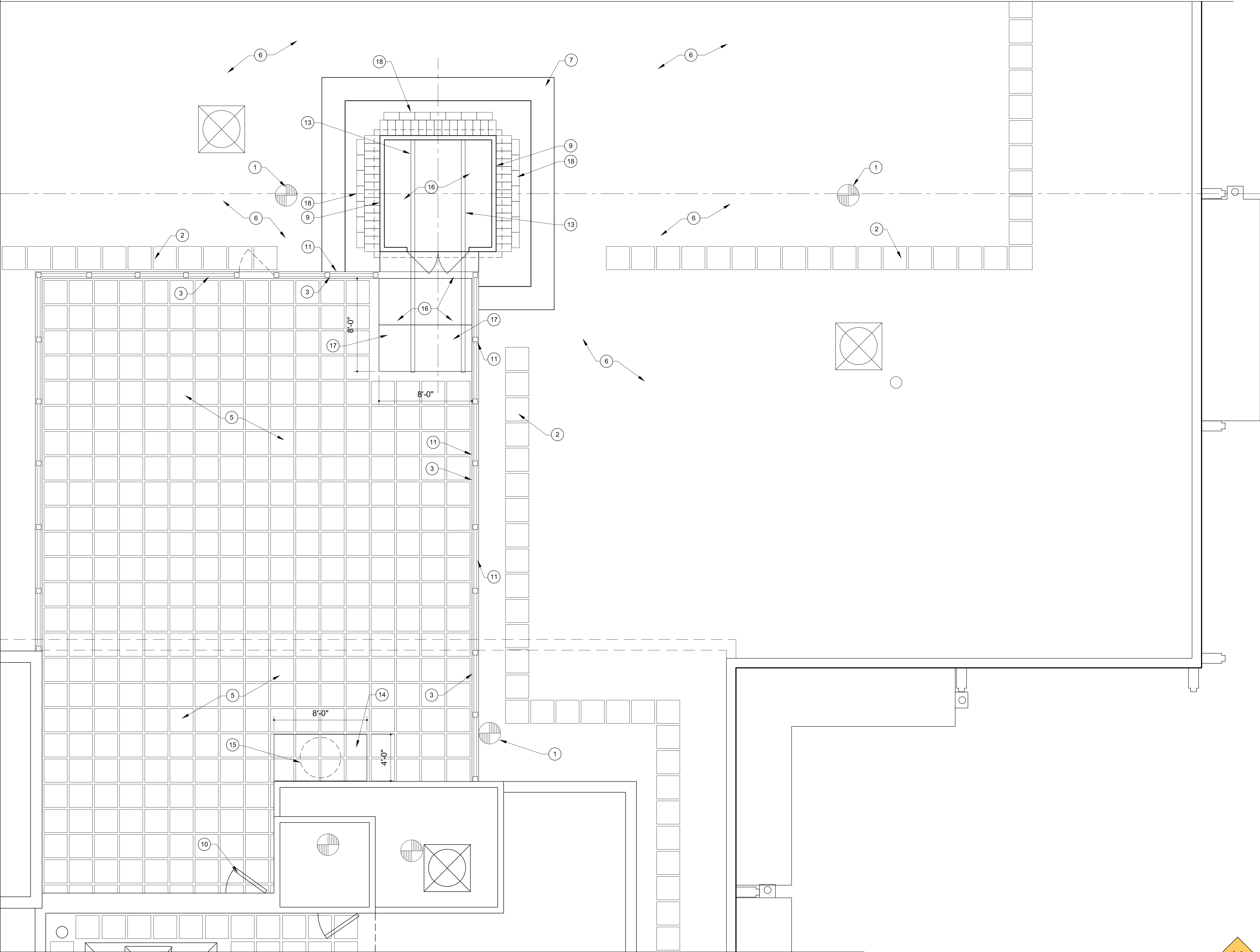


ROOF PLAN

WORK ORDER & SHEET NO.

K8557
A102

CONSTRUCTION DOCUMENTS



REFERENCE NOTES

- 1 - EXISTING ROOF DRAIN TO REMAIN.
- 2 - EXISTING CONCRETE PAVERS TO REMAIN.
- 3 - EXISTING VINYL FENCE TO REMAIN.
- 4 - EXISTING VINYL FENCE GATE TO REMAIN
- 5 - EXISTING PAVERS AND SUPPORT SYSTEM TO REMAIN.
- 6 - EXISTING ROOFING MEMBRANE TO REMAIN. COVER AND PROTECT AS REQUIRED DURING DEMOLITION AND NEW CONSTRUCTION.
- 7 - NEW ROOFING MEMBRANE TO BE INSTALLED OVER EXISTING MEMBRANE AS A PROTECTION SHEET FOR NEW STORAGE SHED - (20'-0"x 20'-0")
- 8 - NEW 2"x 12" TREATED DOUGLAS FIR BALLAST SUPPORT SHEATHING - (16'-0"x 16'-0").
- 9 - NEW STORAGE SHED - (10'-0"x 10'-0").
- 10 - EXISTING ROOF ACCESS DOOR.
- 11 - ROOF CURB TO REMAIN.
- 12 - NEW ACCESS RAMP CONSTRUCTION OF 2"x FRAMING WITH 3/4" PLYWOOD SHEATHING TOP AND BOTTOM AS REQUIRED - (1'-9"w x 8'-6")
- 13 - (2) NEW C4x 5.4x 20'-0" STEEL CHANNEL TRACKS TO BE SECURELY ATTACHED TO THE PLYWOOD. THIS IS A GUIDE FOR THE ANTENNA CART WHEELS, TRACKS TO BE SPACED THE PROPER DISTANCE FOR THE WHEELS TO ROLL ON.
- 14 - NEW 3/4" PLYWOOD SHEATHING ON TOP OF EXISTING CONCRETE PAVERS AND SUPPORT SYSTEM
- 15 - DASHED LINE INDICATES NEW COMPRESSOR - TO BE SUPPLIED BY CLIENT.
- 16 - NEW PLYWOOD SHEATHING TO BE INSTALLED LEVEL AND SMOOTH FOR INSTALLATION OF NEW STEEL ROLLER TRACKS. SHEATHING TO GO OVER THE CURB.
- 17 - NEW WOOD PLATFORM WITH 2"x FRAMING AT 16" O.C. WITH 3/4" PLYWOOD SHEATHING.
- 18 - NEW CONCRETE BLOCK BALLAST MATERIAL TO BE PLACED ON 2"x 12" BALLAST SUPPORT SHEATHING AS SHOWN. (35 BLOCKS PER SIDE FOR A TOTAL OF 105 BLOCKS)



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WILFORD W. CLYDE BUILDING



ROOF PLAN

WORK ORDER & SHEET NO.

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A103

CONSTRUCTION DOCUMENTS



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REVISIONS

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UNIVERSITY

NEW TEMPORARY ANTENNA ARRAY SYSTEM SHED
ENGINEERING AND TECHNOLOGY

WILFORD W. CLYDE BUILDING

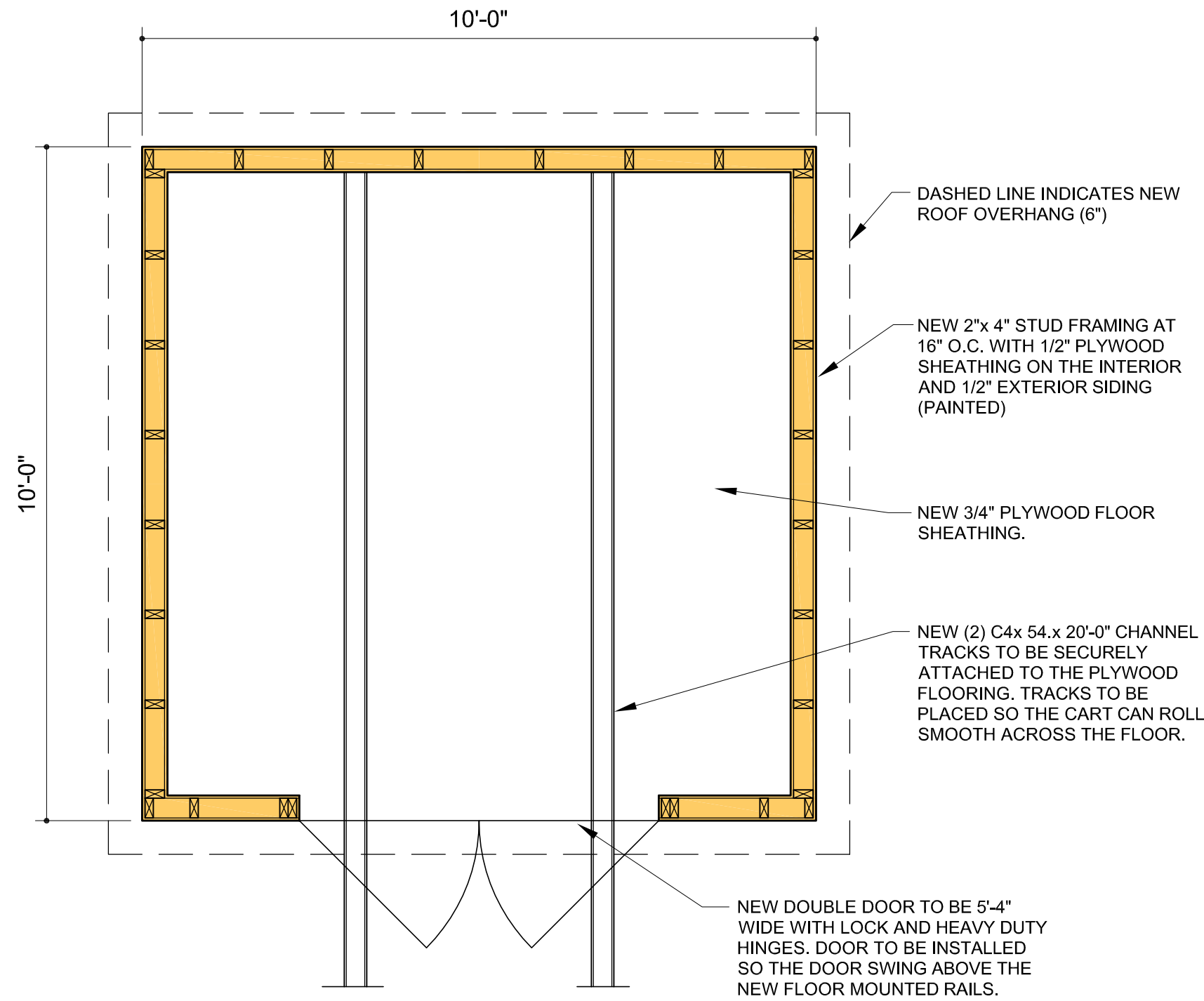


SHED DETAILS

WORK ORDER & SHEET NO.

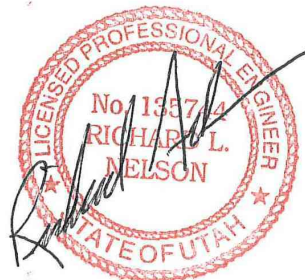
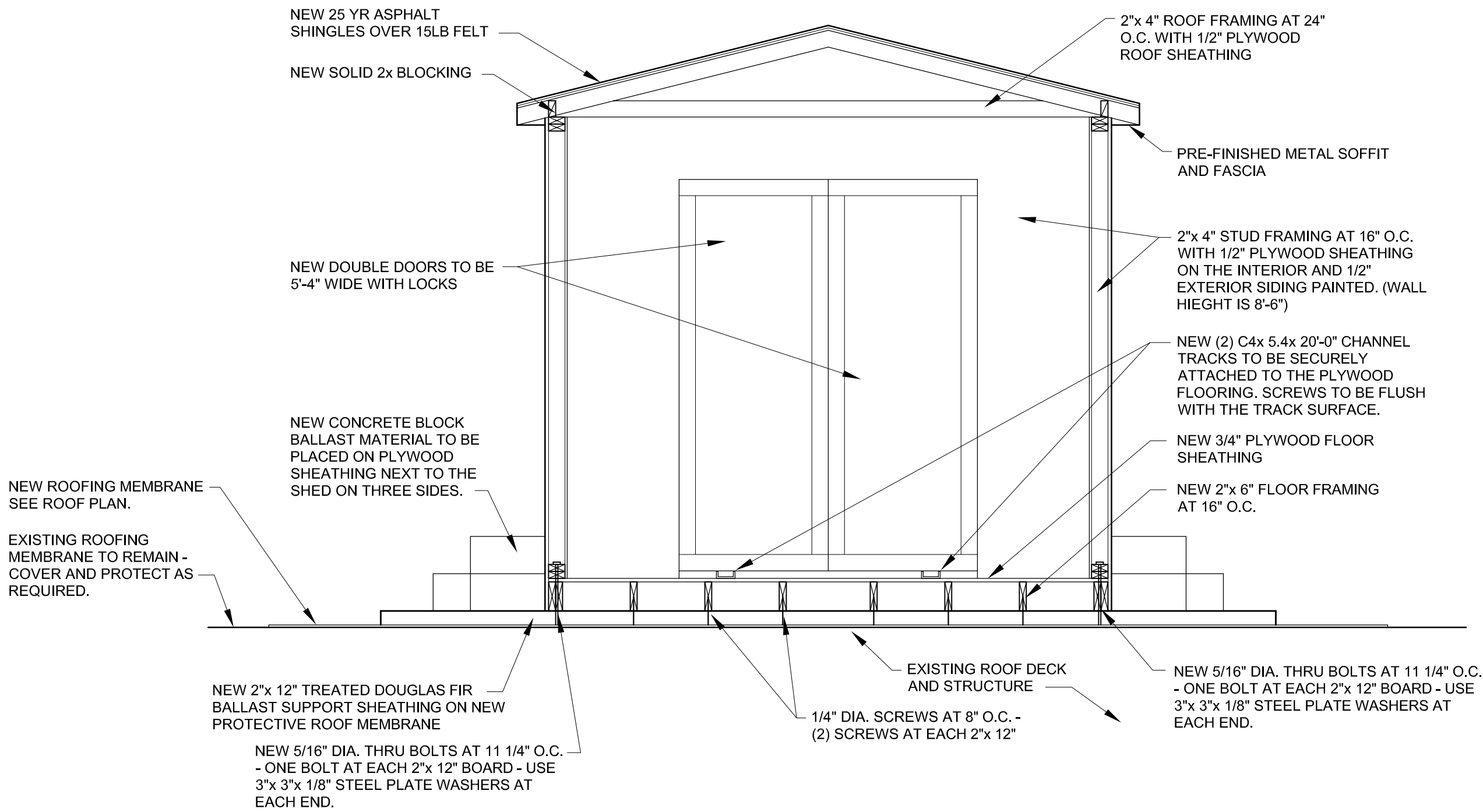
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A104

CONSTRUCTION DOCUMENTS



STORAGE SHED FLOOR PLAN
SCALE: 1/2"= 1'-0"

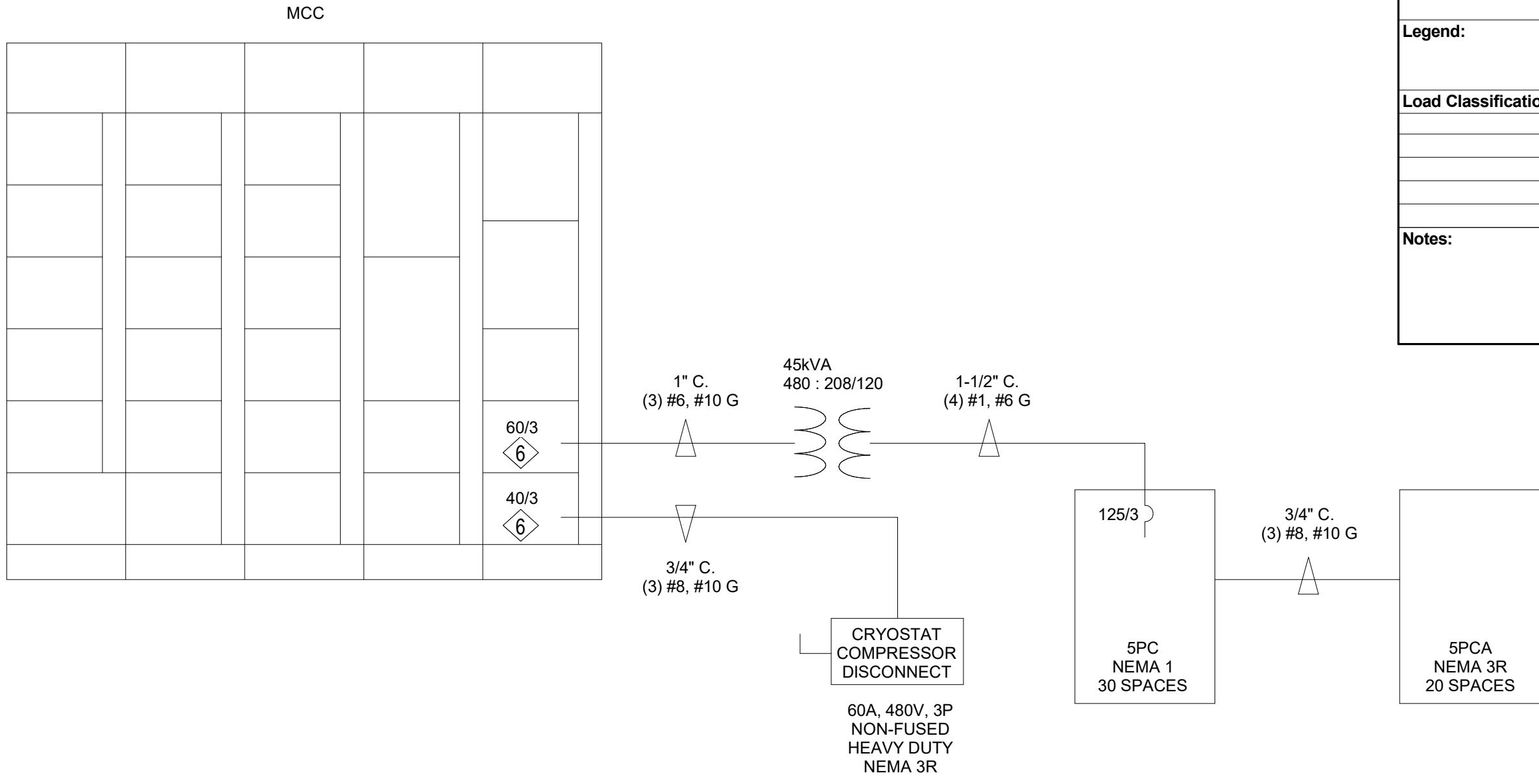
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SHED BUILDING SECTION PLAN
SCALE: 1/2"= 1'-0"

2

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Panel: 5PCA

Location: ROOF

Supply From: 5PC

Mounting: SURFACE

Enclosure: NEMA 3R

Volts: 120/208

Phases: 1

Wires: 3

A.I.C. Rating: 10K

Mains Type:

Mains Rating: 100 A

MCB Rating:

Notes:

CKT	Circuit Description	Trip	Pole s	A	B	C	Pole s	Trip	Circuit Description	CKT
1	Spare	20 A	1	0 VA 0 VA			1	20 A	Spare	2
3	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	4
5	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	6
7										8
9										10
11										12
13										14
15										16
17										18
19										20
Total...				0 VA	0 VA	0 VA				
Total...				0 A	0 A	0 A				

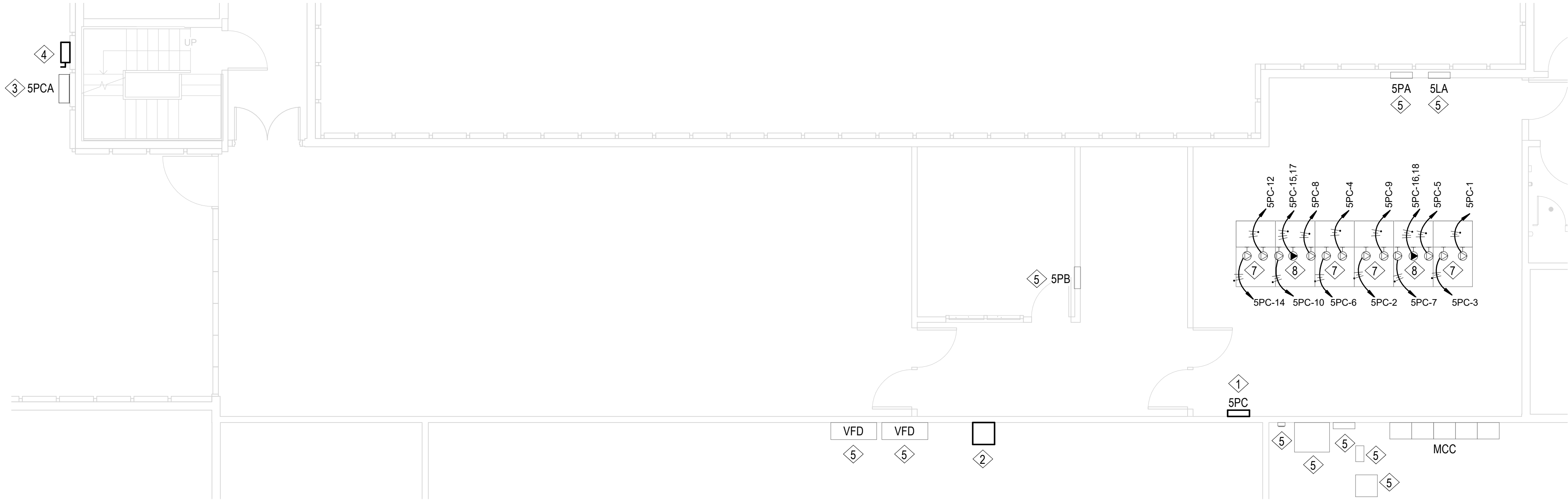
Legend:

Load Classification	Connected...	Demand Factor	Estimated...	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn.: 0 A
				Total Est. Demand: 0 A

Notes:

Panel: 5PC											
Location:				Volts: 120/208 Wye				A.I.C. Rating: 22K			
Supply From:				Phases: 3				Mains Type:			
Mounting: SURFACE				Wires: 4				Mains Rating: 225 A			
Enclosure: NEMA 1								MCB Rating: 125 A			
Notes:											
CKT	Circuit Description	Trip	Pole s	A	B	C	Pole s	Trip	Circuit Description	CKT	
1	Receptacle	30 A	1	28...	28...		1	30 A	Receptacle	2	
3	Receptacle	30 A	1		28...	28...	1	30 A	Receptacle	4	
5	Receptacle	30 A	1			28...	28...	1	30 A	Receptacle	6
7	Receptacle	30 A	1	28...	28...		1	30 A	Receptacle	8	
9	Receptacle	30 A	1		28...	28...	1	30 A	Receptacle	10	
11,13	5PCA	50 A	2			0 VA 28...	1	30 A	Receptacle	12	
--	--	--	--	0 VA 28...			1	30 A	Receptacle	14	
15,17	Receptacle	20 A	2		19...	19...	2	20 A	Receptacle	16,18	
--	--	--	--			0 VA, 0 VA	--	--	--	--	
19										20	
21										22	
23										24	
25										26	
27										28	
29										30	
Total...				14400 VA	15360 VA	8640 VA					
Total...				127 A	135 A	72 A					
Legend:											
Load Classification		Connected...		Demand Factor		Estimated...		Panel Totals			
Receptacle		38400 VA		63.02%		24200 VA		Total Conn. Load: 38400 VA			
								Total Est. Demand: 24200 VA			
								Total Conn.: 107 A			
								Total Est. Demand: 67 A			
Notes:											

ONE-LINE DIAGRAM



REFERENCE NOTES

1. INSTALL NEW PANEL. REFER TO ONE-LINE DIAGRAM FOR CONNECTION REQUIREMENTS.
2. INSTALL NEW TRANSFORMER. REFER TO ONE-LINE DIAGRAM FOR CONNECTION REQUIREMENTS. PROVIDE 4" CONCRETE HOUSEKEEPING PAD.
3. INSTALL NEW PANEL. REFER TO ONE-LINE DIAGRAM FOR CONNECTION REQUIREMENTS. PROVIDE FOUR 120V/20A CIRCUITS TO TEMPORARY WOODEN SHED VIA #12 S/O CORDS. VERIFY CORD CAP REQUIREMENTS WITH PROJECT MANAGER.
4. INSTALL NEW DISCONNECT. MAKE CONNECTIONS TO CRYOSTAT COMPRESSOR AS REQUIRED.
5. SHOWN FOR REFERENCE ONLY.
6. INSTALL NEW FUSES IN EXISTING MCC TUB.
7. INSTALL 120V/30A POWER DROP TO EXISTING EQUIPMENT CABINET VIA #10 S/O CORD. PROVIDE STRAIN RELIEF GRIP AT BOTH ENDS OF CABLE. VERIFY CORD CAP REQUIREMENTS WITH PROJECT MANAGER.
8. INSTALL 208V/20A POWER DROP TO EXISTING EQUIPMENT CABINET VIA #12 S/O CORD. PROVIDE STRAIN RELIEF GRIP AT BOTH ENDS OF CABLE. VERIFY CORD CAP REQUIREMENTS WITH PROJECT MANAGER.



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PLANNING DIR:

CLIENT APPROVAL DATE

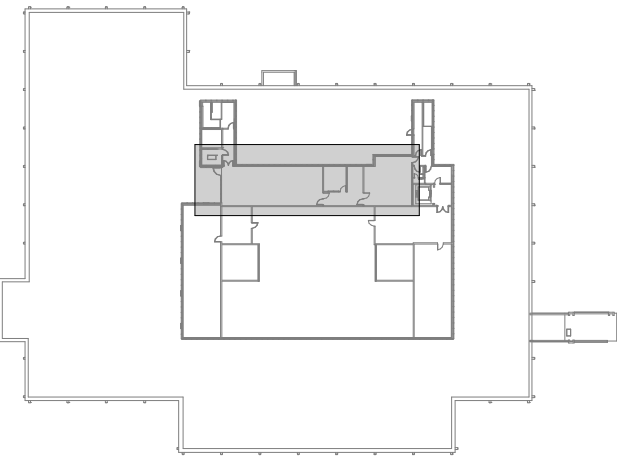
REVISIONS

BRIGHAM YOUNG
UNIVERSITY
MAKE CHANGES TO ROOF
CLYDE BUILDING
CB - LEVEL 5

GENERAL NOTES

1. IF THERE ARE ANY DESIGN OR BUDGET PROBLEMS WITH THIS PROJECT, CONTACT THE DESIGNER ABOVE AS SOON AS POSSIBLE.
2. FOLLOW THE DESIGN AS PER THESE STANDARD PLANS. ANY CHANGES, ADDITIONS, OR ADJUSTMENTS SHALL BE REVIEWED WITH THE PERSON WHOSE ENGINEERING STAMP IS HERE ATTACHED

LOCATION PLAN



CB - LEVEL 5

K8557 NEW POWER PLAN
SCALE: 3/16" = 1'-0"

1

ELECTRICAL POWER PLAN

WORK ORDER & SHEET NO.

K8557
E1.1

CONSTRUCTION DOCS - SHOPS