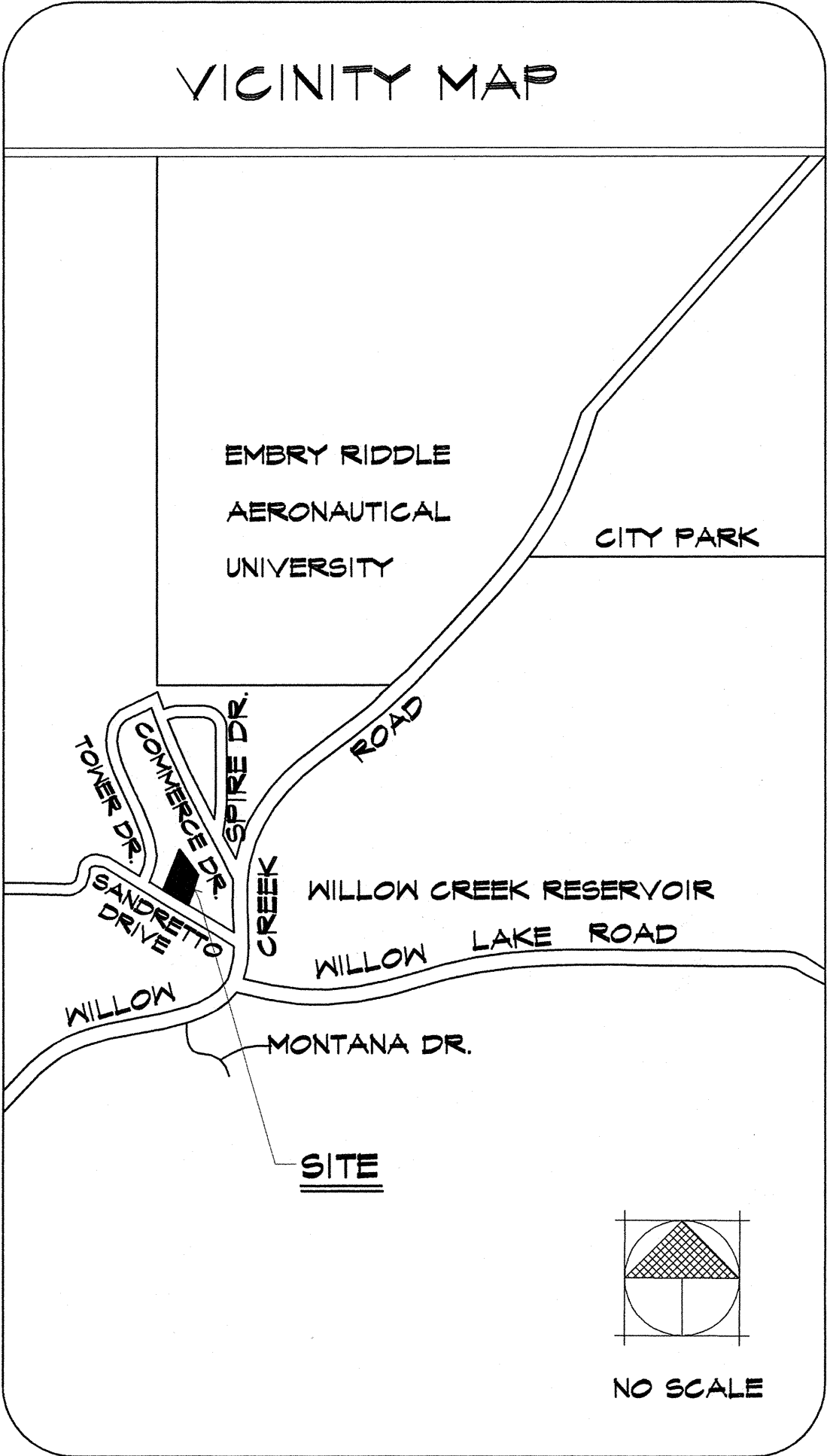


COMMERCIAL BUILDING FOR:  
PIERCE PROPERTIES

PRESCOTT, AZ.



PROJECT INFORMATION

OWNER: PIERCE PROPERTIES  
ADDRESS: 1044 SANDRETTO DRIVE  
PRESCOTT, ARIZONA 86305

ZONING: INDUSTRIAL "A"

PARCEL NO. 106 - 08 - 013

CODE: 1997 EDITION OF THE UNIFORM BUILDING CODE

OCCUPANCY: "B"

CONSTRUCTION TYPE: II-N

BLDG. SQ. FOOTAGE: 7282 S.F.

PARKING REQ'D:

OFFICE  
991 S.F.  
X .80 (CIRCULATION FACTOR)  
793 S.F. (USABLE AREA)  
+ 300 S.F. / SPACE  
= 3 SPACES REQUIRED

LIGHT MANUFACTURING:  
6291 S.F. - ALLOW 5 EMPLOYEES  
1 SPACE PER EMPLOYEE = 5 SPACES  
1 LOADING SPACE REQ'D.

TOTAL PARKING REQ'D:  
8 PARKING SPACES  
1 LOADING SPACE

PARKING PROVIDED:  
18 PARKING SPACES, INCLUDING  
1 FOR THE PHYSICALLY IMPAIRED  
2 LOADING SPACES

NOTE: BUILDING SHALL BE EQUIPPED WITH AN  
AUTOMATIC FIRE ALARM SYSTEM

SYMBOLS KEY

SYMBOL	DESCRIPTION
	NORTH INDICATOR
	BUILDING SECTION DESIGNATOR
	DESCRIPTIVE NOTE DESIGNATOR
	DOOR TYPE DESIGNATOR
	REVISION DESIGNATOR
	DOOR NUMBER DESIGNATOR
	ROOM NUMBER DESIGNATOR
	WINDOW TYPE DESIGNATOR
	GRID LINE DESIGNATOR
	DETAIL DESIGNATOR

INDEX TO DRAWINGS

CS	VICINITY MAP / PROJECT INFORMATION INDEX TO DRAWINGS / SYMBOLS KEY
L1	LANDSCAPE PLAN
A1	SITE/ GRADING & DRAINAGE PLAN
A2	REFERENCE / DIMENSION FLOOR PLAN CEILING & ROOF FRAMING PLANS, ENLARGED RESTROOM PLAN
A3	BUILDING SECTION, ROOM FINISH SCHEDULE & DOOR SCHEDULE
A4	EXTERIOR ELEVATIONS
MP1	MECHANICAL / PLUMBING FLOOR PLAN, MECHANICAL & PLUMBING DETAILS, & MECHANICAL SCHEDULES
MP2	MECHANICAL & PLUMBING DETAILS, SCHEDULES & NOTES
PE1	PLUMBING / ELECTRICAL SITE PLAN
E1	LIGHTING FLOOR PLAN, ELECTRICAL FIXTURE SCHEDULE, SYMBOLS LIST, & PANEL SCHEDULE
E2	ELECTRICAL POWER FLOOR PLAN, LOAD CALCULATIONS, ONE-LINE DIAGRAM, & PANEL SCHEDULES

NOTES:  
1) STRUCTURAL DRAWINGS ARE ATTACHED  
UNDER SEPARATE COVER  
2) FIRE ALARM DRAWINGS SHALL BE SUBMITTED  
UNDER SEPARATE COVER PRIOR TO ROUGH  
FRAMING INSPECTION

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REVISIONS	BY
1. OWNER ADDRESS	MSR








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DRAWING: VICINITY MAP /  
PROJECT INFORMATION /  
INDEX TO DRAWINGS / SYMBOLS KEY

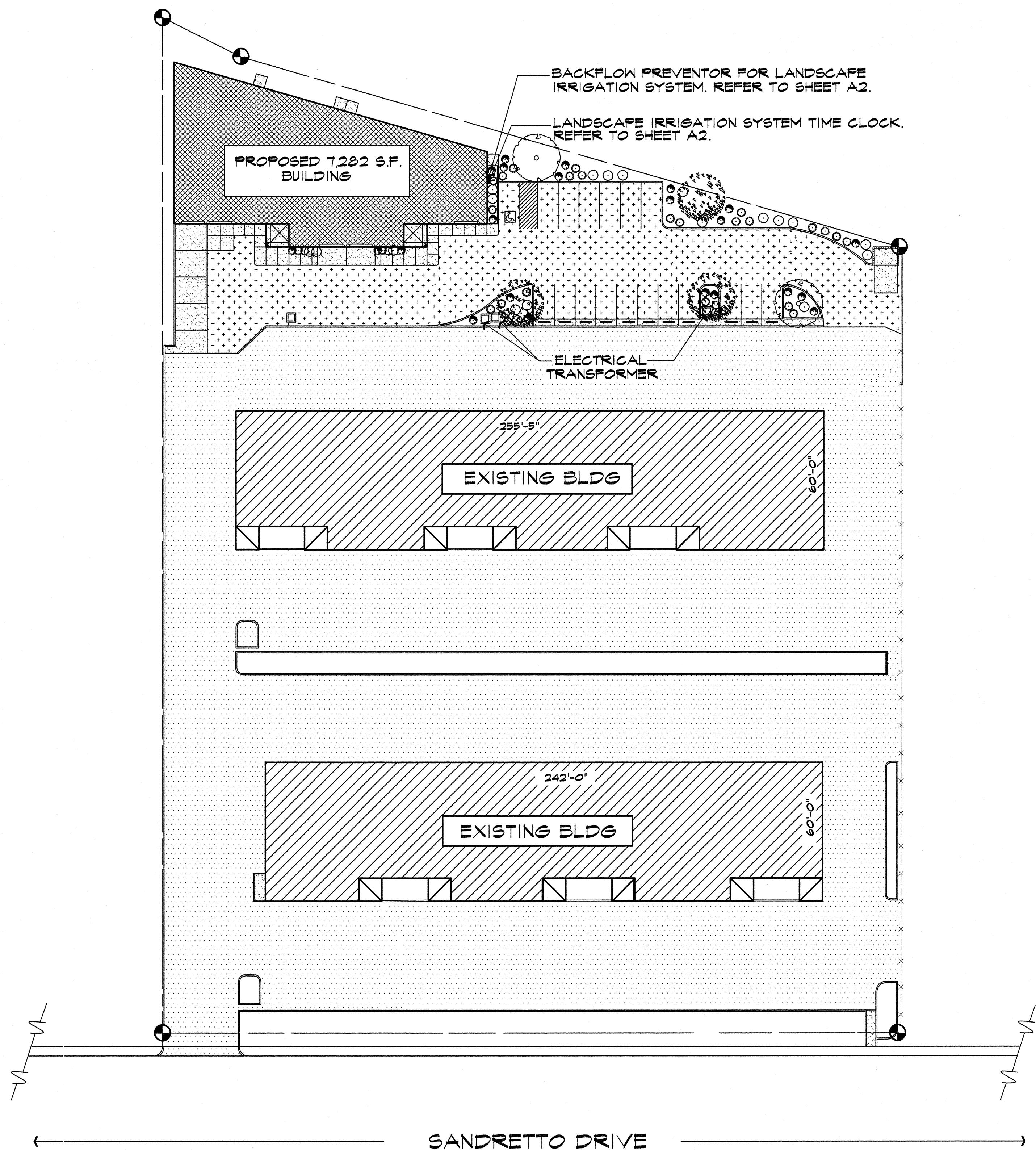
PROJECT: COMMERCIAL BUILDING  
FOR PIERCE PROPERTIES  
PRESCOTT, AZ.

DRAWN BY <b>TARVER</b>
CHECKED BY
DATE
SCALE <b>AS NOTED</b>
JOB NO. <b>450</b>
SHEET <b>CS</b>
OF 11 SHEETS

PLANT SCHEDULE			
SYMBOLS	SIZE	QUANTITY	COMMON NAME
	5 GAL.	29	ESCOLONIA
	15 GAL.	1	ARIZONA SYCAMORE
	15 GAL.	2	AUTUMN BLAZE MAPLE
	5 GAL.	22	NANDINA DOMESTICA
	5 GAL.	20	CREEPING JUNIFER

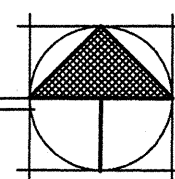
NOTES:

1. ENTIRE LANDSCAPE SYSTEM SHALL BE WATERED VIA DRIP IRRIGATION SYSTEM ON A LANDSCAPE TIME CLOCK
2. GROUND COVER IN ALL PLANTER AREAS SHALL BE 3/4" DECOMPOSED GRANITE
3. SPRAY ALL GROUND COVER AREAS WITH PRE-EMERGENT FOR WEED CONTROL



LANDSCAPE PLAN

SCALE: 1" = 30'-0"



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DRAWING: LANDSCAPE PLAN  
PROJECT: COMMERCIAL BUILDING  
FOR PIERCE PROPERTIES  
PRESCOTT, AZ.

DRAWN BY <b>TARVER</b>
CHECKED BY <b>W.A.K.</b>
DATE
SCALE <b>AS NOTED</b>
JOB NO. <b>450</b>
SHEET <b>1</b>
OF <b>11</b> SHEETS



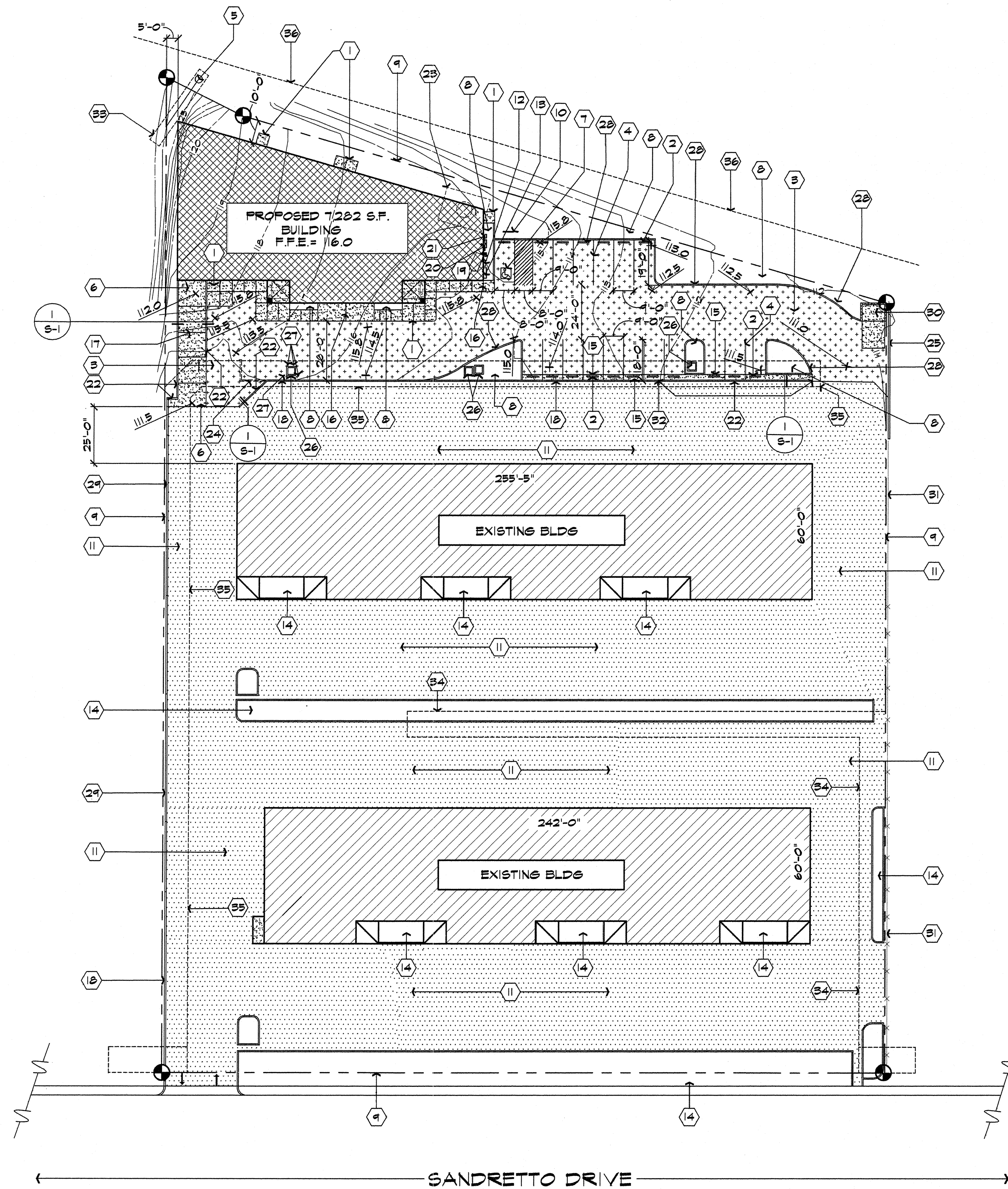
## DESCRIPTIVE NOTES

- 4" CONCRETE SLAB SIDEWALK OVER 4" COMPACTED A.B.C. REFER TO SHEET A-2
- 6" PRE-MOLDED BUMPER CURB.
- 3" ASPHALTIC PAVEMENT OVER 6" COMPACTED A.B.C.
- 4" WIDE PAINTED WHITE PARKING STRIPE
- EXISTING A.P.S. POWER POLE
- 6" THICK FIBERMESH CONCRETE SLAB W/ #4 REBAR @ 24" O.C. EACH WAY OVER 4" COMPACTED A.B.C.
- A.D.A. APPROVED HANDICAPPED SYMBOL & UNLOADING ZONE. MAXIMUM SLOPE OF UNLOADING ZONE SHALL NOT EXCEED 2 %.
- PROPOSED LANDSCAPE AREA. REFER TO LANDSCAPE PLAN.
- PROPERTY LINE.
- ADA APPROVED HANDICAPPED PARKING SPACE SIGNAGE ON STEEL POST.
- EXISTING PAVING.
- TELEPHONE TERMINAL CABINET. REFER TO ELECTRICAL PLANS.
- ELECTRICAL SERVICE ENTRANCE SECTION. REFER TO ELECTRICAL PLANS.
- EXISTING LANDSCAPE AREA.
- 4" THICK X 2'-0" WIDE CONCRETE SPILLWAY OVER 4" THICK COMPACTED A.B.C.
- TOOLED CONCRETE CONTROL JOINT.
- SAW-CUT CONCRETE CONTROL JOINT AT LOADING DOCK AREA.
- EXISTING CONCRETE RETAINING WALL.
- BACK FLOW PREVENTOR FOR DRIP IRRIGATION SYSTEM.
- NATURAL GAS METERS. REFER TO PLUMBING PLANS.
- WATER METER. REFER TO PLUMBING PLANS.
- PROVIDE CONCRETE RETAINING WALL. REFER TO STRUCTURAL PLANS.
- OWNER TO REMOVE EXISTING CONCRETE SLAB & STEEL OXYGEN TANK.
- REMOVE PORTION OF CONCRETE RETAINING WALL AS REQUIRED.
- EXISTING CMU WALL.
- ELECTRICAL TRANSFORMER.
- 4" DIA. STEEL BOLLARD IMBEDDED IN CONCRETE FOOTING 2'-0" BELOW GRADE & FILLED WITH CONCRETE.
- 6" X 6" EXTRUDED CONCRETE CURB.
- EXISTING CHAIN LINK FENCE ATOP EXISTING CAST-IN-PLACE CONCRETE WALL.
- DUMPSTER ENCLOSURE PER CITY OF PRESCOTT STANDARD DETAIL 4-15.
- EXISTING WROUGHT-IRON FENCE.
- EAST-MOST END OF EXISTING CONCRETE RETAINING WALL.
- 4 FT. EASEMENT FOR DOWNSUY, BOOK 1609 OF OFFICIAL RECORDS PAGE 579.
- 8 FT. EASEMENT FOR UNDERGROUND ELECTRICAL LINES, BOOK 1526 OF OFFICIAL RECORDS, PAGE 14.
- 8 FT. EASEMENT FOR UNDERGROUND ELECTRICAL LINES, BOOK 1695 OF OFFICIAL RECORDS, PAGE 88.
- 20' FOOT APS EASEMENT BOOK 1598 OF OFFICIAL RECORDS, PAGE 80.

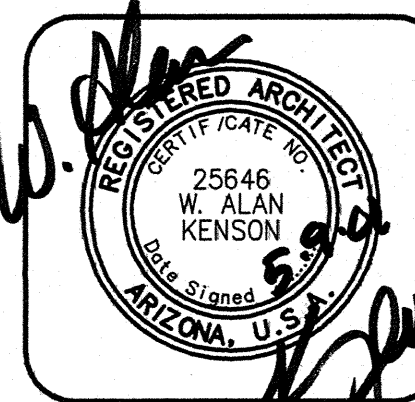
## LEGEND

- |  |                                                                                     |
|--|-------------------------------------------------------------------------------------|
|  | INDICATES EXISTING CONCRETE PARKING AREA                                            |
|  | INDICATES EXISTING BUILDING                                                         |
|  | INDICATES PROPOSED ASPHALTIC PARKING AREA. REFER TO DESCRIPTIVE NOTES ON THIS SHEET |
|  | INDICATES PROPOSED BUILDING                                                         |
|  | INDICATES PROPOSED CONCRETE. REFER TO DESCRIPTIVE NOTES ON THIS SHEET               |
|  | INDICATES PROPOSED FINISH GRADE ELEVATION                                           |
|  | INDICATES EXISTING GRADE CONTOUR                                                    |

## SITE / GRADING & DRAINAGE PLAN



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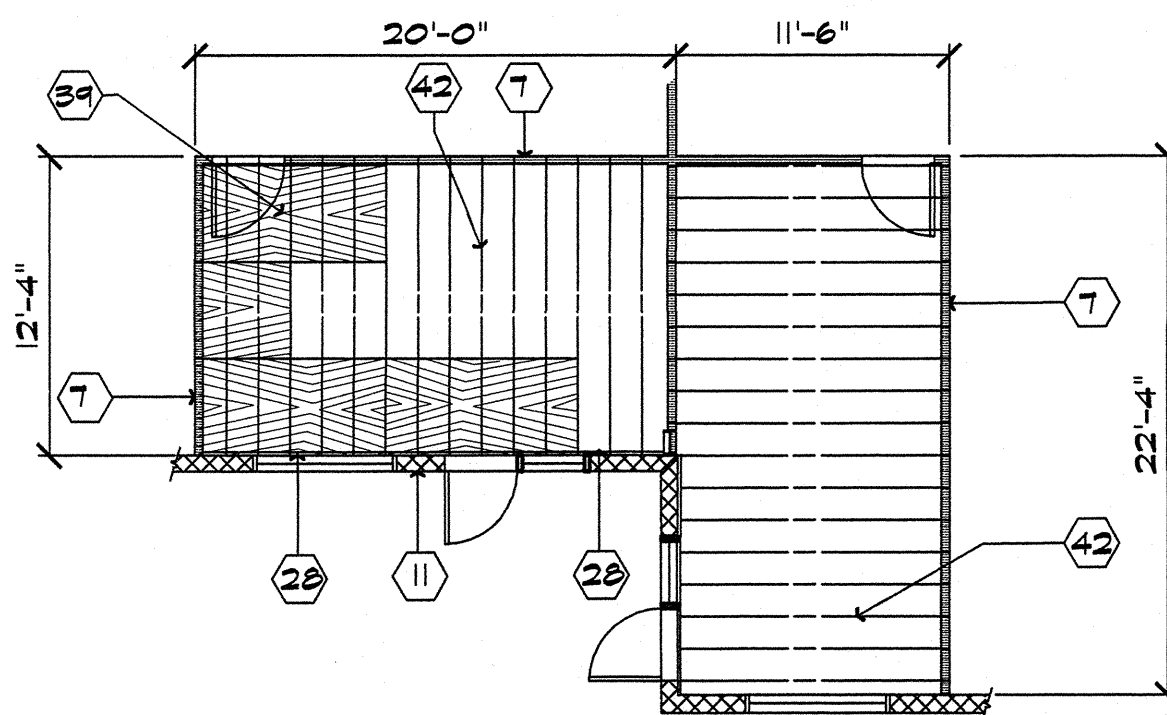
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PROJECT: COMMERCIAL BUILDING FOR PIERCE PROPERTIES  
PRESCOTT, AZ

DRAWN BY TARVER
CHECKED BY W.A.K.
DATE
SCALE AS NOTED
JOB NO. 450
SHEET 11
OF 11 SHEETS

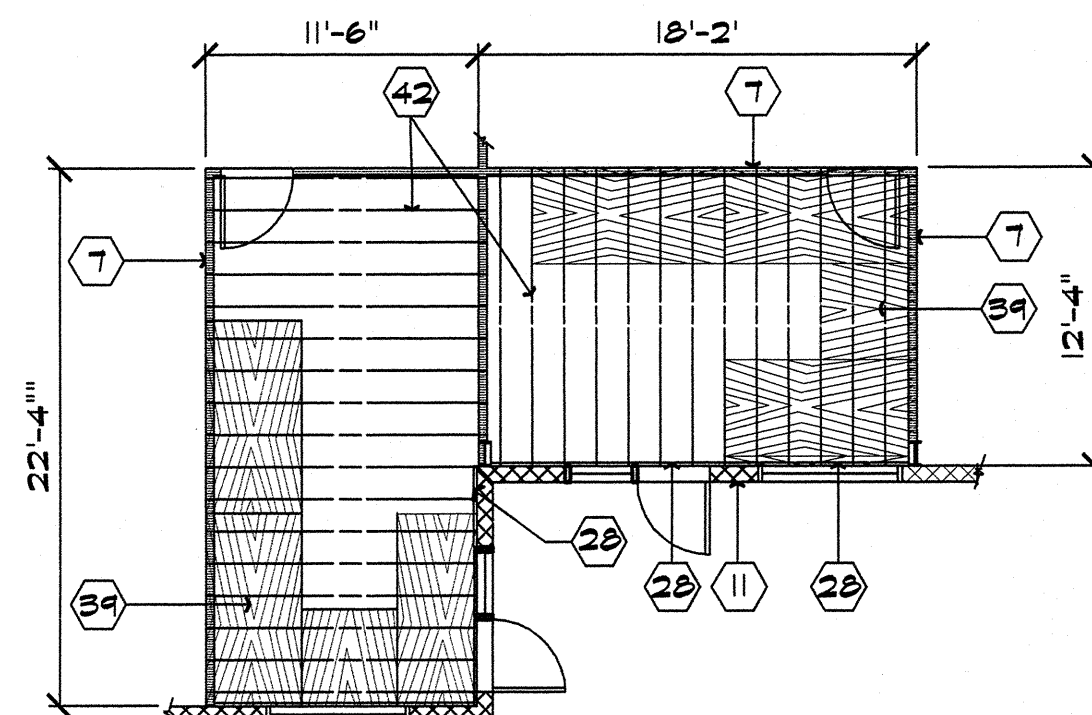




CEILING FRAMING PLAN

OFFICES 101 & 102

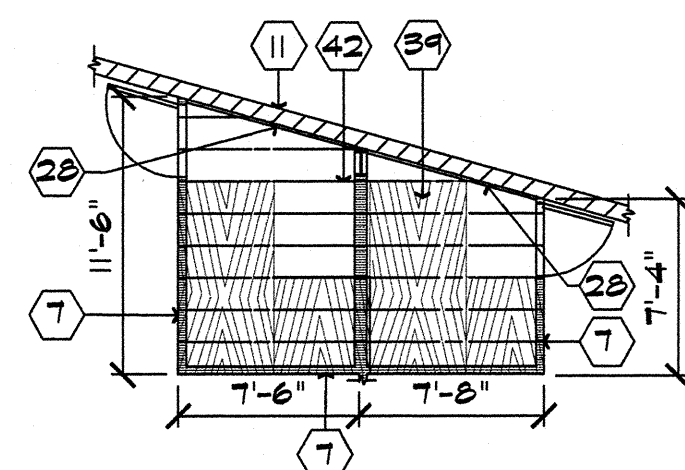
SCALE: 1/8" = 1'-0"



CEILING FRAMING PLAN

OFFICES 104 & 105

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



CEILING FRAMING PLAN

RESTROOMS 108, 109, 110 & 111

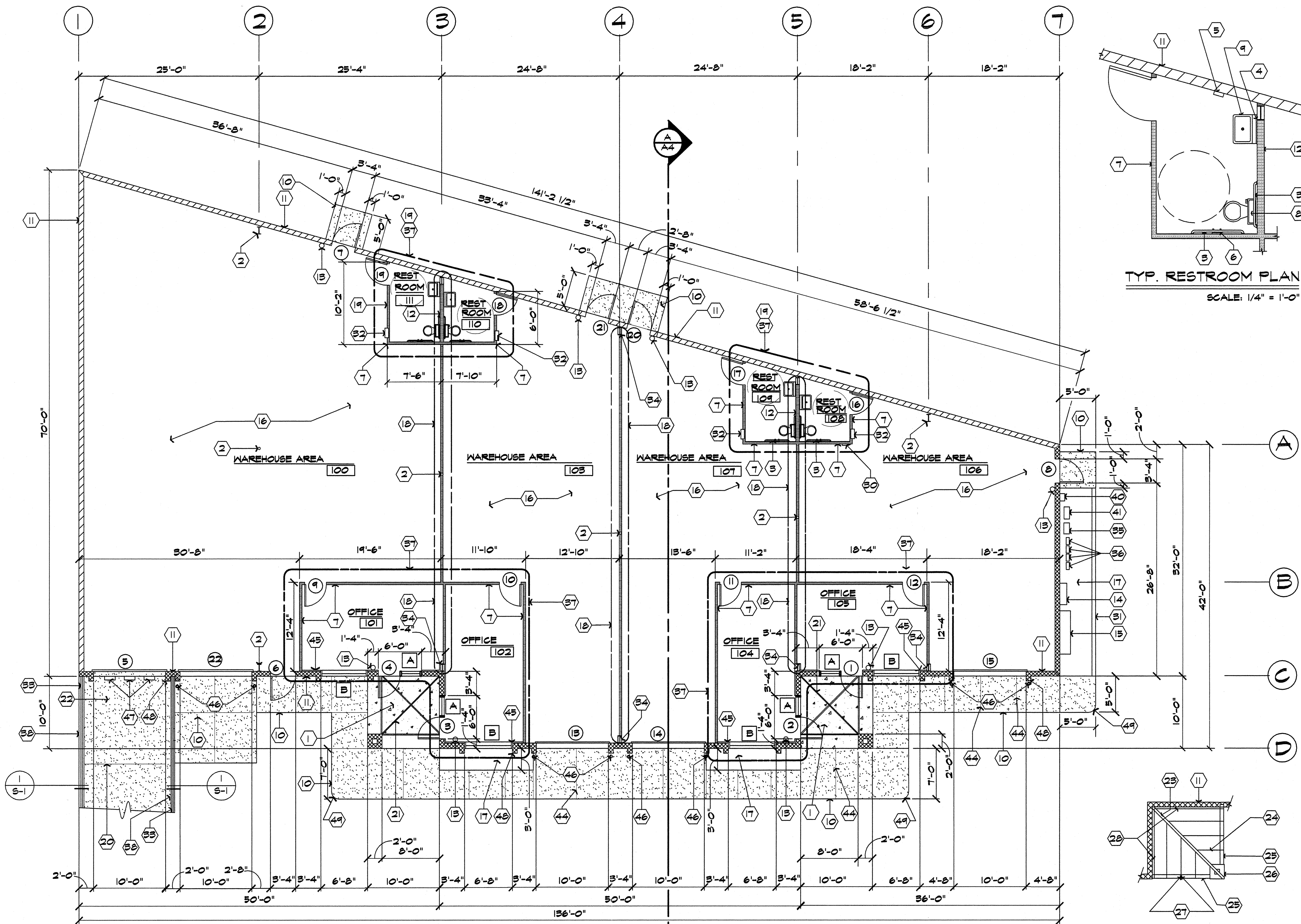
SCALE: 1/8" = 1'-0"

# WALL LEGEND

	SMOOTH FACE CMU WALL
	SPLIT-FACE CMU WALL - STACKED BOND
	METAL STUD PARTITION

## DESCRIPTIVE NOTES

- 4" EXPOSED AGGREGATE CONCRETE SLAB OVER 4" COMPACTED A.B.C.
- STEEL COLUMN. REFER TO STRUCTURAL PLANS.
- 1 1/2" DIAMETER HANDICAP GRAB-BARS PER A.D.A. REQUIREMENTS. MOUNT TOP OF GRAB BAR @ 34" A.F.F.
- PROVIDE 24" X 36" MIRROR - SET BOTTOM OF MIRROR @ 40" A.F.F., MAX.
- "C" FOLD PAPER TOWEL DISPENSER - SET BOTTOM OF DISPENSER @ 42" A.F.F.
- TOILET PAPER DISPENSER. SET BOTTOM OF DISPENSER @ 22" A.F.F.
- TYPICAL INTERIOR BEARING WALL CONSTRUCTION: 8 5/8", 20 GA., METAL STUDS @ 24" O.C. W/ 1/2" GPDW EACH SIDE.
- A.D.A. APPROVED TANK TYPE WATER CLOSET. REFER TO PLUMBING PLANS.
- A.D.A. APPROVED WALL- HUNG LAVATORY & FAUCET. SET RIM HEIGHT @ 33" A.F.F. MINIMUM CLEARANCE OF 28" BELOW. REFER TO PLUMBING PLANS.
- 4" THICK CONCRETE SIDEWALK / SLAB OVER 4" THICK COMPACTED A.B.C.
- EXTERIOR WALL (SPLIT-FACE OR SMOOTH FACE CMU. SEE LEGEND, THIS SHEET. REFER TO STRUCTURAL PLANS.

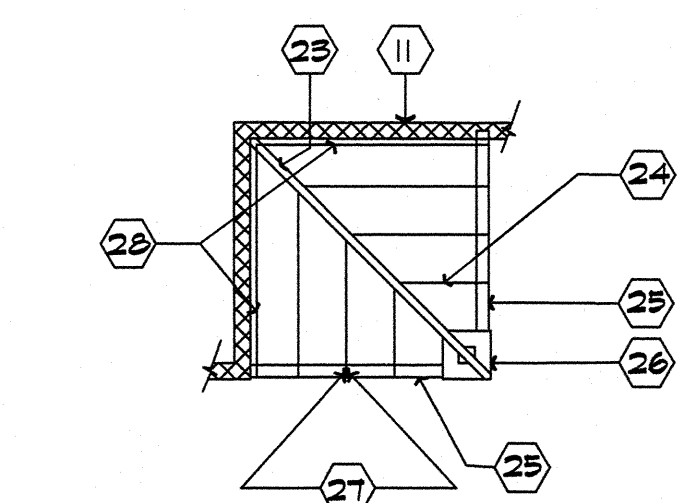


REFERENCE / DIMENSION FLOOR PLAN

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

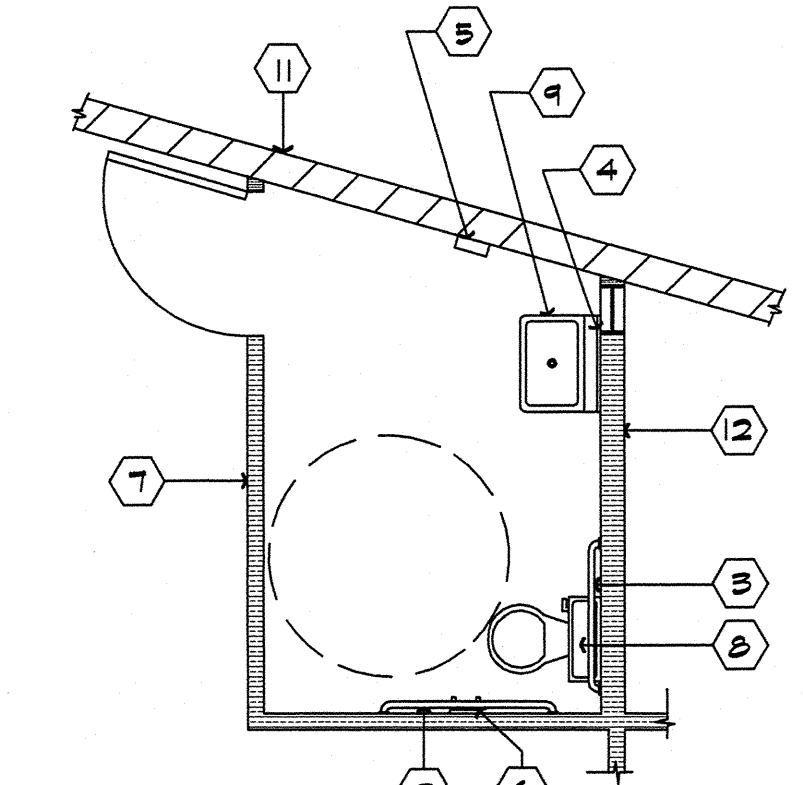
TYP. ENTRY ROOF FRAMING

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

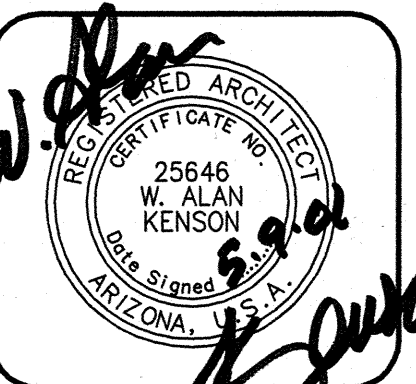


TYP. RESTROOM PLAN

SCALE: 1/4" = 1'-0"



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DRAWING: REFERENCE / DIMENSION FLOOR PLAN  
CEILING & ROOF FRAMING PLANS,  
ENLARGED RESTROOM PLAN  
PROJECT: COMMERCIAL BUILDING  
FOR PIERCE PROPERTIES  
PRESCOTT, AZ.

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CHECKED BY  
**K.A.K.**  
DATE  
SCALE  
**AS NOTED**  
JOB NO.  
**450**  
SHEET

**A2**

OF 11 SHEETS



## DOOR SCHEDULE

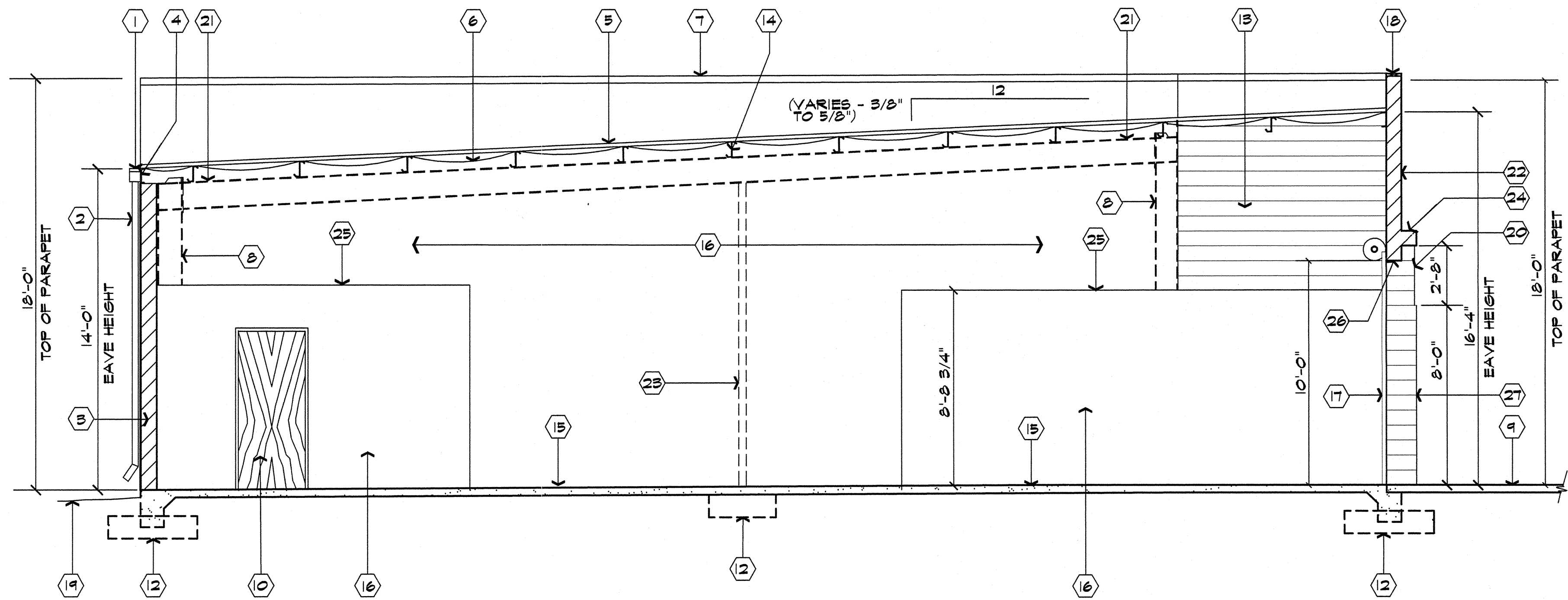
NO.	SIZE	TYPE	DOOR		FRAME		REMARKS
			MAT'L.	FIN.	MAT'L.	FIN.	
1	3'-0" X 7'-0"	A	STEEL	PAINT	ALUM.	BRONZE	ENTRY LEVER LOCK, KEY 'A', SPRING LOADED CHAIN STOP
2	3'-0" X 7'-0"	A	STEEL	PAINT	ALUM.	BRONZE	ENTRY LEVER LOCK, KEY 'B', SPRING LOADED CHAIN STOP
3	3'-0" X 7'-0"	A	STEEL	PAINT	ALUM.	BRONZE	ENTRY LEVER LOCK, KEY 'C', SPRING LOADED CHAIN STOP
4	3'-0" X 7'-0"	A	STEEL	PAINT	ALUM.	BRONZE	ENTRY LEVER LOCK, KEY 'D', SPRING LOADED CHAIN STOP
5	10'-0" X 10'-0"	B	STEEL	PAINT	STEEL	PAINT	ROLL - UP GARAGE DOOR W / MANUAL CHAIN OPERATOR
6	3'-0" X 7'-0"	D	H.M.	PAINT	H.M.	PAINT	ENTRY LEVER LOCK, KEY 'D', SPRING LOADED CHAIN STOP
7	3'-0" X 7'-0"	D	H.M.	PAINT	H.M.	PAINT	ENTRY LEVER LOCK, KEY 'D', SPRING LOADED CHAIN STOP
8	3'-0" X 7'-0"	D	H.M.	PAINT	H.M.	PAINT	ENTRY LEVER LOCK, KEY 'A', SPRING LOADED CHAIN STOP
9	3'-0" X 6'-8"	C	S.C. WOOD	STAIN	STEEL	PAINT	PASSAGE LEVER LOCK
10	3'-0" X 6'-8"	C	S.C. WOOD	STAIN	STEEL	PAINT	PASSAGE LEVER LOCK
11	3'-0" X 6'-8"	C	S.C. WOOD	STAIN	STEEL	PAINT	PASSAGE LEVER LOCK
12	3'-0" X 6'-8"	C	S.C. WOOD	STAIN	STEEL	PAINT	PASSAGE LEVER LOCK
13	10'-0" X 10'-0"	B	STEEL	PAINT	STEEL	PAINT	ROLL - UP GARAGE DOOR W / MANUAL CHAIN OPERATOR
14	10'-0" X 10'-0"	B	STEEL	PAINT	STEEL	PAINT	ROLL - UP GARAGE DOOR W / MANUAL CHAIN OPERATOR
15	10'-0" X 10'-0"	B	STEEL	PAINT	STEEL	PAINT	ROLL - UP GARAGE DOOR W / MANUAL CHAIN OPERATOR
16	3'-0" X 6'-8"	C	S.C. WOOD	STAIN	STEEL	PAINT	PRIVACY LEVER LOCK
17	3'-0" X 6'-8"	C	S.C. WOOD	STAIN	STEEL	PAINT	PRIVACY LEVER LOCK
18	3'-0" X 6'-8"	C	S.C. WOOD	STAIN	STEEL	PAINT	PRIVACY LEVER LOCK
19	3'-0" X 6'-8"	C	S.C. WOOD	STAIN	STEEL	PAINT	PRIVACY LEVER LOCK
20	3'-0" X 7'-0"	D	H.M.	PAINT	H.M.	PAINT	ENTRY LEVER LOCK, KEY 'B', SPRING LOADED CHAIN STOP
21	3'-0" X 7'-0"	D	H.M.	PAINT	H.M.	PAINT	ENTRY LEVER LOCK, KEY 'C', SPRING LOADED CHAIN STOP
22	10'-0" X 10'-0"	B	STEEL	PAINT	STEEL	PAINT	ROLL - UP GARAGE DOOR W / MANUAL CHAIN OPERATOR

## NOTES:

1. ALL EXTERIOR DOORS AND HARDWARE SHALL COMPLY WITH THE 1997 U.B.C.
2. DOOR THRESHOLDS SHALL HAVE A MAX. HEIGHT OF 1/2" FOR HC ACCESSIBILITY.
3. ALL GLAZING IN DOORS SHALL BE INSULATED SAFETY GLAZING.
4. ALL GLAZING WITHIN 24" OF OPENINGS SHALL BE SAFETY GLASS.
5. ALL INTERIOR DOORS SHALL BE OPERABLE WITHOUT THE USE OF A KEY, SPECIAL KNOWLEDGE OR EFFORT.

## FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR	BASE	WALLS	CLS. HT.	REMARKS
100	WAREHOUSE AREA	F1	B1/B2	W1 / W2	C2	VARIES
101	OFFICE	F3	B2	W1	C1	8'-0"
102	OFFICE	F3	B2	W1	C1	8'-0"
103	WAREHOUSE AREA	F1	B1/B2	W1 / W2	C2	VARIES
104	OFFICE	F3	B2	W1	C1	8'-0"
105	OFFICE	F3	B2	W1	C1	8'-0"
106	WAREHOUSE AREA	F1	B1/B2	W1 / W2	C2	VARIES
107	WAREHOUSE AREA	F1	B2	W1/W2	C2	VARIES
108	RESTROOM	F2	B2	W1/W3	C1	8'-0"
109	RESTROOM	F2	B2	W1/W3	C1	8'-0"
110	RESTROOM	F2	B2	W1/W3	C1	8'-0"
111	RESTROOM	F2	B2	W1/W3	C1	8'-0"
FLOORS			WALLS		CEILING	
F1 - EXPOSED CONC. SLAB			W1 - GPDW		C1 - GPDW	
F2 - VINYL TILE			W2 - EXPOSED CMU		C2 - EXPOSED STRUCTURE	
F3 - CARPET			W3 - 4' HIGH FRP MAINSCOT		& VINYL-BACKED INSUL.	
BASE						
B1 - NONE						
B2 - 4" RUBBER COVE						

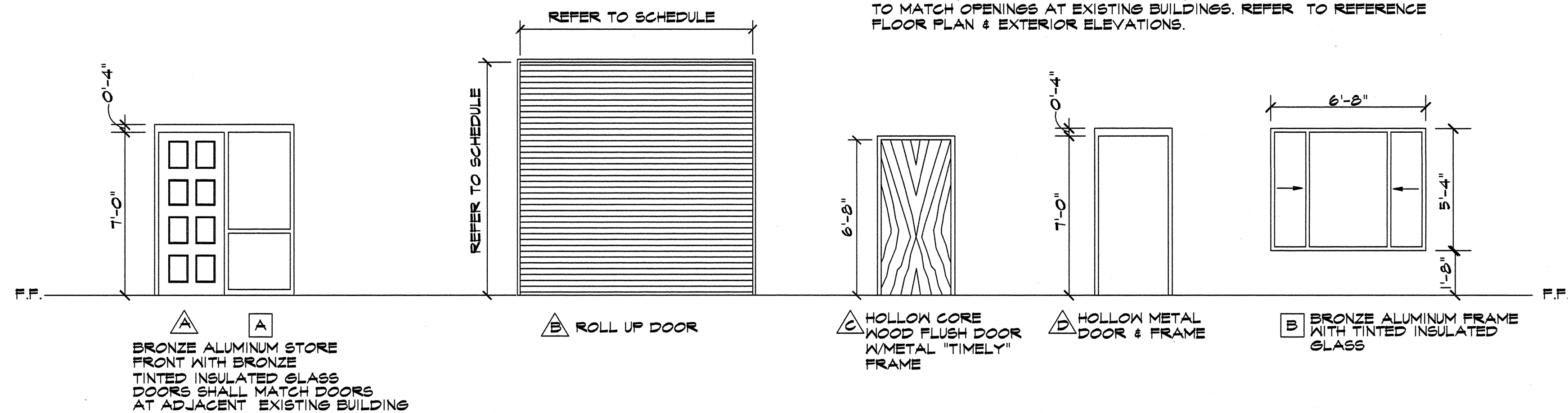


BUILDING SECTION A - A

SCALE: 1/4" = 1'-0"

## DESCRIPTIVE KEY NOTES

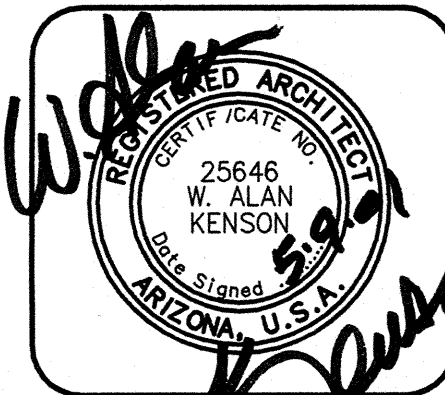
1. SHEET METAL GUTTER. REFER TO EXTERIOR ELEVATIONS.
2. SHEET METAL DOWNSPOUT. REFER TO EXTERIOR ELEVATIONS.
3. SMOOTH-FACED CMU WALL. REFER TO STRUCTURAL PLANS.
4. EAVE FURLIN - REFER TO STRUCTURAL PLANS.
5. STANDING SEAM METAL ROOF. REFER TO STRUCTURAL PLANS.
6. R-II VINYL-FACED BLANKET INSULATION.
7. TOP OF PARAPET BEYOND.
8. STEEL COLUMN. REFER TO STRUCTURAL PLANS.
9. 4" CONCRETE SLAB / SIDEWALK OVER 4" COMPACTED A.B.C.
10. WOOD DOOR. REFER TO DOOR SCHEDULE.
11. NOT USED
12. CONCRETE FOOTING. REFER TO STRUCTURAL PLANS.
13. CMU WALL BEYOND. REFER TO STRUCTURAL PLANS.
14. TYPICAL ROOF FURLIN. REFER TO STRUCTURAL PLAN.
15. 4" THICK CONCRETE SLAB OVER 4" COMPACTED A.B.C. REFER TO STRUCTURAL PLAN.
16. GPDW ON WALL BEYOND. REFER TO ROOM FINISH SCHEDULE.
17. ROLL - UP GARAGE TYPE DOOR. REFER TO DOOR SCHEDULE.
18. METAL PARAPET CAP OVER 2 X 8 PLATE W / 1/2" A.B. @ 48" O.C.
19. APPROXIMATE FINISHED GRADE.
20. STUCCO FINISH OVER CMU WALL BEYOND. REFER TO EXTERIOR ELEVATIONS.
21. STEEL BEAM. REFER TO STRUCTURAL PLANS.
22. SPLIT-FACE CMU WALL. REFER TO STRUCTURAL PLANS.
23. STEEL PIPE COLUMN. REFER TO STRUCTURAL PLANS.
24. PROVIDE MORTAR WASH CAP ON TOP OF CMU.
25. 3/4" T & 6 OSB BOARD ON METAL JOISTS. REFER TO SHEET A-2.
26. 8X8X16 SMOOTH FACE CMU AT HEAD OF ROLL-UP DOOR.
27. 8 X 8 X 16, SPLIT ONE SIDE & ONE END, SPLIT FACE CMU TO MATCH OPENINGS AT EXISTING BUILDINGS. REFER TO REFERENCE FLOOR PLAN & EXTERIOR ELEVATIONS.



WINDOW / DOOR TYPES

SCALE: 1/4"=1'-0"

REVISIONS	BY



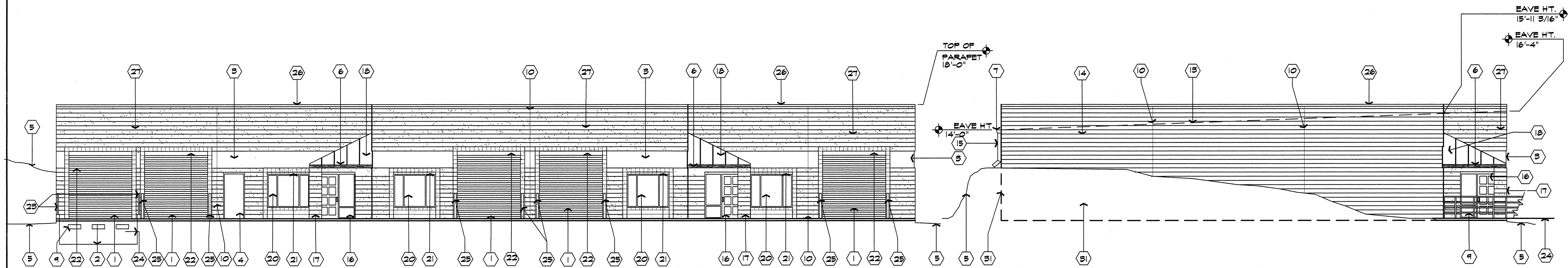
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DRAWING: BUILDING SECTION / ROOM FINISH SCHEDULE, DOOR SCHEDULE, DOOR & WINDOW TYPES  
PROJECT: COMMERCIAL BUILDING PIERCE PROPERTIES PRESCOTT, AZ

DRAWN BY <b>TARVER</b>
CHECKED BY <b>W.A.K.</b>
DATE
SCALE <b>AS NOTED</b>
JOB NO. <b>450</b>
SHEET <b>A3</b>
OF 11 SHEETS



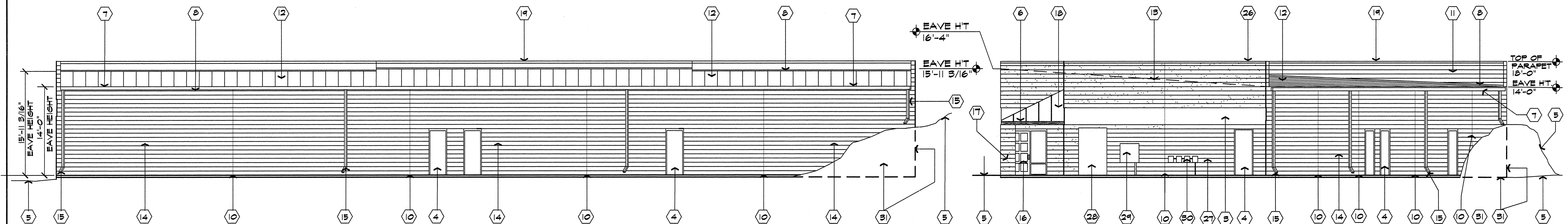


SOUTH ELEVATION

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

WEST ELEVATION

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



NORTH ELEVATION

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

EAST ELEVATION

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

DESCRIPTIVE KEY NOTES

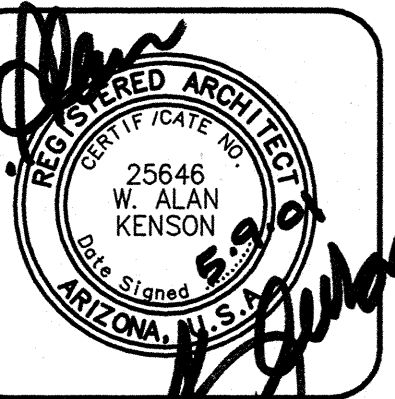
1. ROLL - UP GARAGE DOOR. REFER TO DOOR SCHEDULE.
2. LOADING DOCK - REFER TO SITE PLAN.
3. STUCCO FINISH OVER CMU WALL. REFER TO EXTERIOR ELEVATIONS.
4. HOLLOW METAL DOOR - REFER TO DOOR SCHEDULE / REFERENCE FLOOR PLAN.
5. APPROXIMATE FINISH GRADE
6. TYPICAL 6 X 8 R.S. WOOD BEAM. REFER TO STRUCTURAL PLAN.
7. SHEET METAL GUTTER.
8. ROOF FLASHING RESLET.
9. PRE-MOLDED LOADING DOCK BUMPERS.

10. CMU CONTROL JOINT.
11. SMOOTH-FACE CMU ON PARAPET BEYOND.
12. STANDING SEAM METAL ROOF.
13. LINE OF ROOF BEHIND PARAPET.
14. SMOOTH-FACE CMU. REFER TO WALL LEGEND ON REFERENCE FLOOR PLAN & STRUCTURAL PLANS.
15. SHEET METAL DOWNSPOUT.
16. STOREFRONT OPENING. REFER TO FLOOR PLAN & DOOR & WINDOW SCHEDULE.
17. 2'-0" X 2'-0" SPLIT FACE CMU COLUMN. REFER TO STRUCTURAL PLANS.

18. BATTEN-SEAM COPPER METAL ROOF PANELS. MATCH DESIGN ON EXISTING BUILDINGS.
19. TOP OF PARAPET BEYOND.
20. INSULATED ALUMINUM WINDOW. REFER TO REFERENCE FLOOR PLAN / WINDOW SCHEDULE.
21. 8 X 4 X 16 SMOOTH-FACE CMU @ HEAD OF WINDOW.
22. 8 X 8 X 16 SMOOTH-FACE CMU @ HEAD OF ROLL-UP DOOR.
23. 3'-6" HIGH STEEL GUARD RAIL W / INTERMEDIATE HORIZONTAL RAILS @ 12" O.C., VERTICAL SUPPORT POSTS @ 8'-0" O.C.
24. CONCRETE RETAINING WALL. REFER TO STRUCTURAL PLANS.
25. 4" DIAMETER X 6'-0" LONG STEEL BOLLARD EMBEDDED IN CONCRETE 2'-0" BELOW GRADE & FILLED W / CONCRETE.

26. SHEET METAL PARAPET CAP.
27. SPLIT-FACE CMU. REFER TO WALL LEGEND ON REFERENCE FLOOR PLAN & STRUCTURAL PLANS.
28. ELECTRICAL SERVICE ENTRY SECTION. REFER TO ELECTRICAL PLANS.
29. TELEPHONE TERMINAL CABINET. REFER TO ELECTRICAL PLANS.
30. NATURAL GAS METERS / REGULATORS. REFER TO PLUMBING PLANS.
31. PROVIDE WATERPROOFING @ BELOW GRADE CMU WALL.

REVISIONS	BY



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**KENSON**  
Construction Co., Inc.  
PRESCOTT, AZ 86305  
(620) 445-5192

DRAWING: EXTERIOR ELEVATIONS  
PROJECT: COMMERCIAL BUILDING FOR PIERCE PROPERTIES  
PRESCOTT, AZ.

DRAWN BY <b>TARVER</b>
CHECKED BY <b>N.A.K.</b>
DATE
SCALE <b>AS NOTED</b>
JOB NO. <b>450</b>
SHEET <b>A4</b>
OF 11 SHEETS



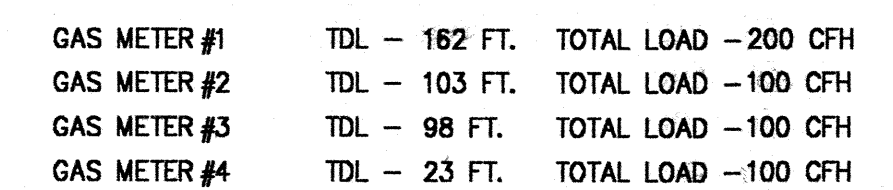
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MARK	MANUFACTURER	DESCRIPTION	MODEL	FRAME	MODULE	O.B.D.	FINISH	REMARKS
D-1	KRUEGER	CEILING	1400	YES	-	NO	OFF WHITE	20" DEFLECTION
WL-1	RUSKIN	WALL LOUVER	L330	YES	-	-	GALV.	4" DEEP BLADES @ 30° ANGLE, 1/4" GALV. SCREEN

MARK	MODEL	BTUH - INPUT	CFM	TYPE	HP	VOLTAGE/PHASE	REMARKS
UH-1	RENZOR B-100	100,000	1645	HORIZ	1/3	115/1	REZNOR MODEL B-100, 6" OVAL VENT, SPARK IGN.



MARK	MANUFACTURER	MODEL	TOTAL CFM	E.S.P.	ELECTRICAL		REMARKS
					FAN HP	V/PH	
EVC-1	PHOENIX	AERO COOL TD-6800	4000	.2	1	115/1	PROVIDE CUSTOM CURB FOR METAL ROOF (1) CONTROL WITH 5-POSITION SWITCH

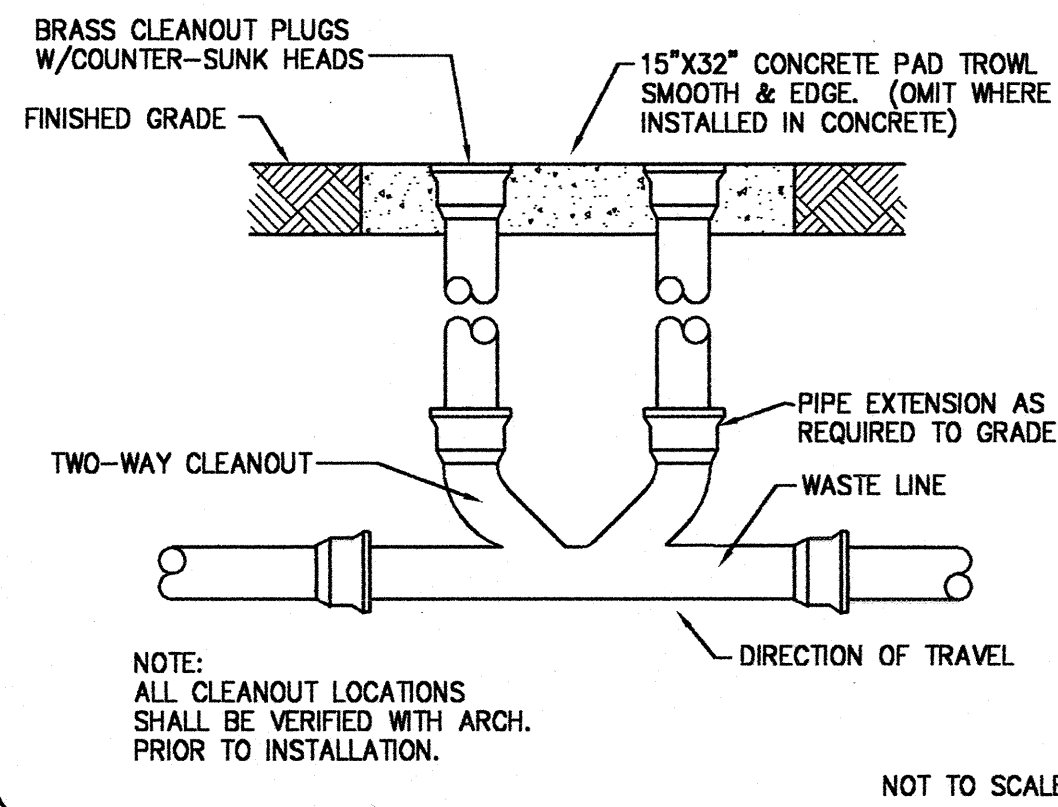


## DOMESTIC WATER PIPING DIAGRAM

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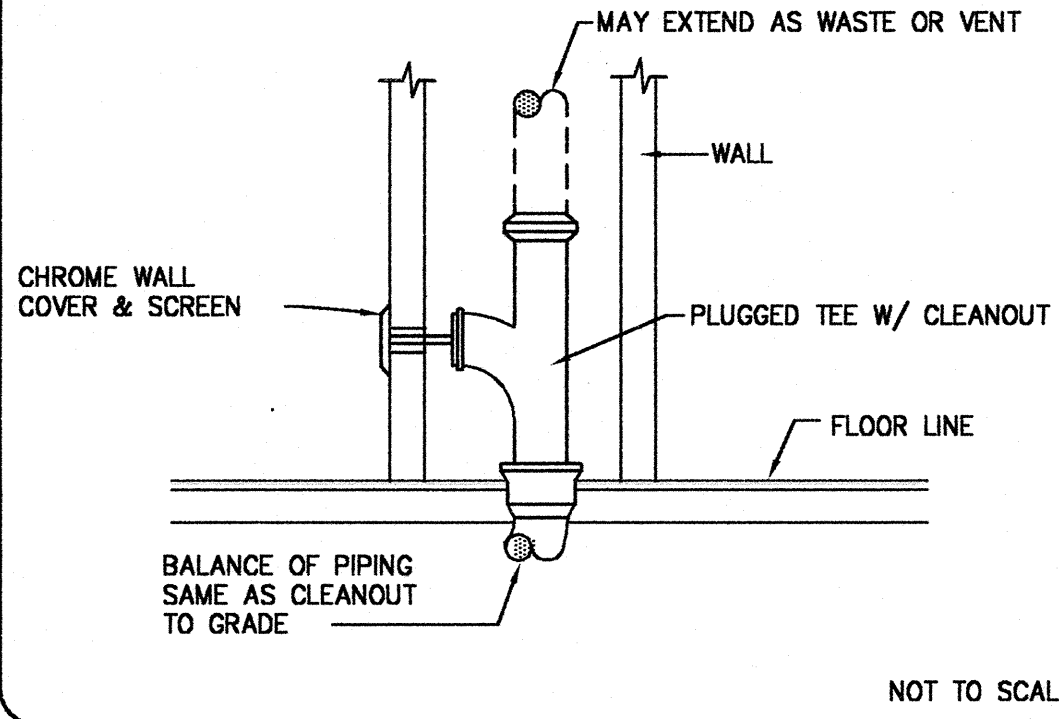
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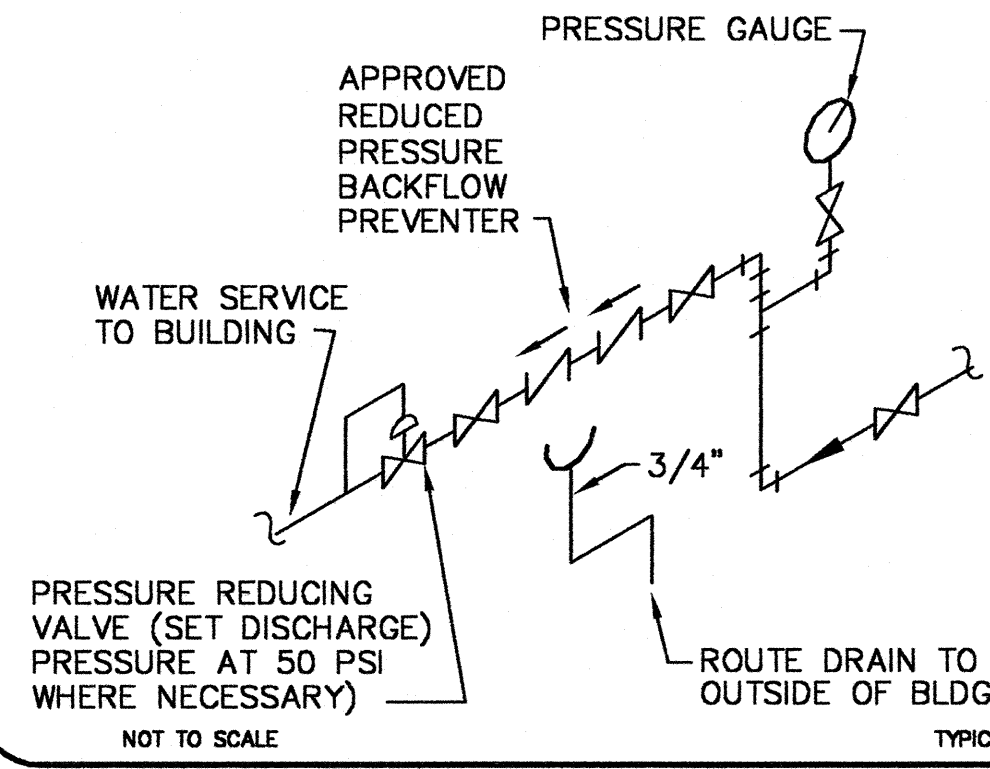
2-WAY SURFACE CLEANOUT

1  
MP2



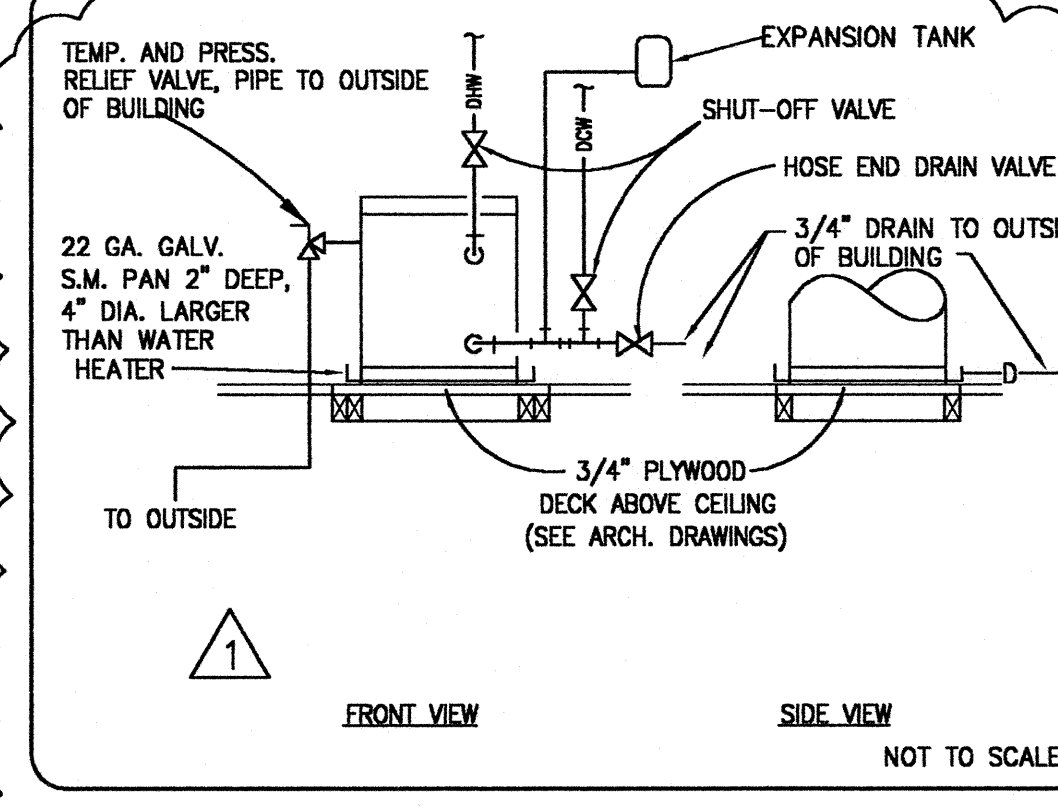
WALL CLEANOUT

2  
MP2



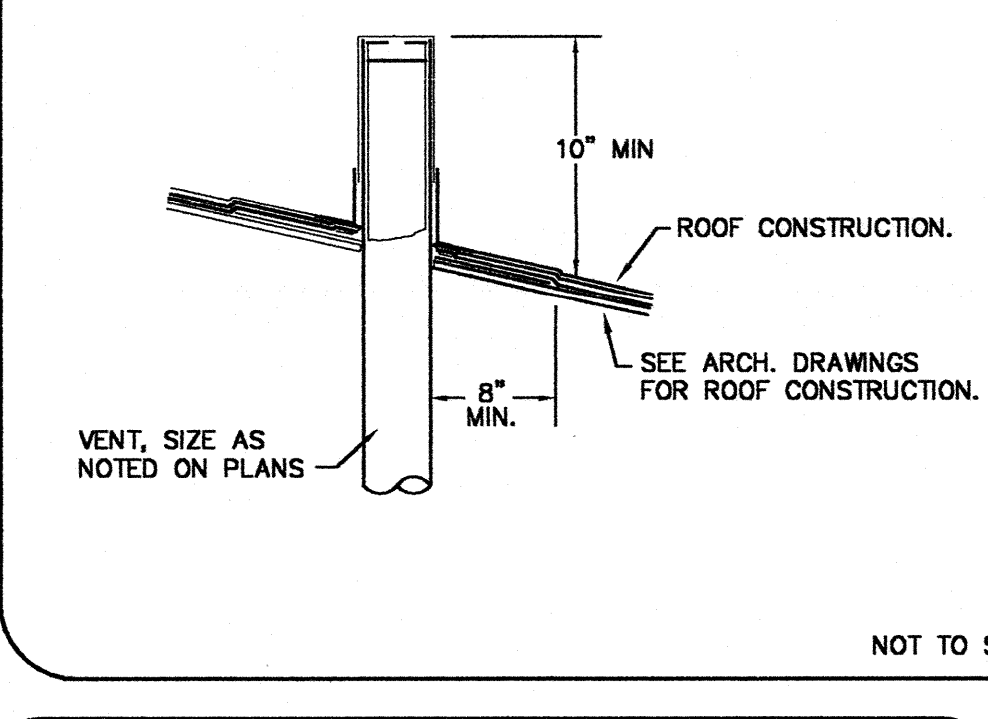
PRV AND BACKFLOW PREVENTER

3  
MP2



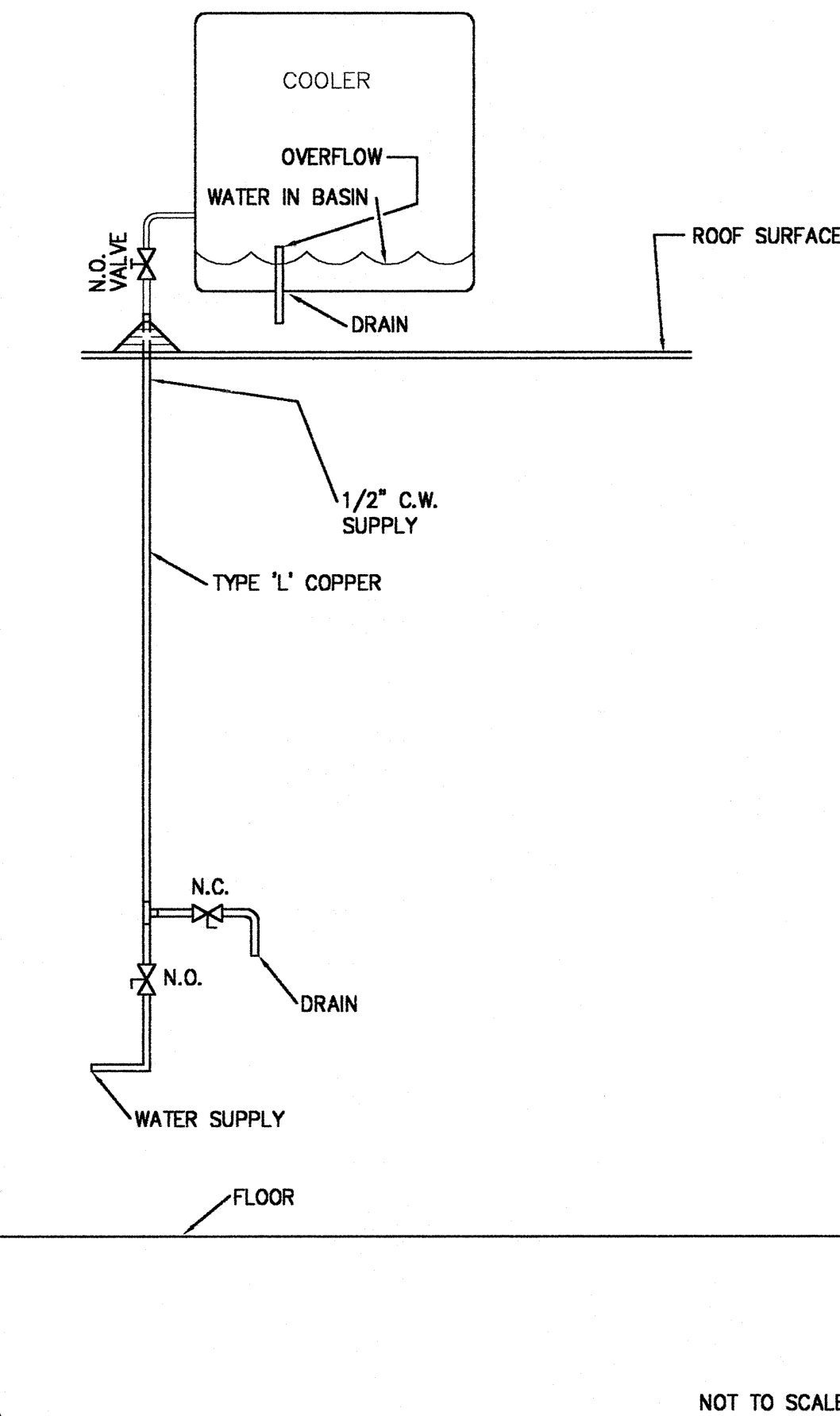
WATER HEATER DETAIL

4  
MP-2



VENT THRU ROOF DETAIL

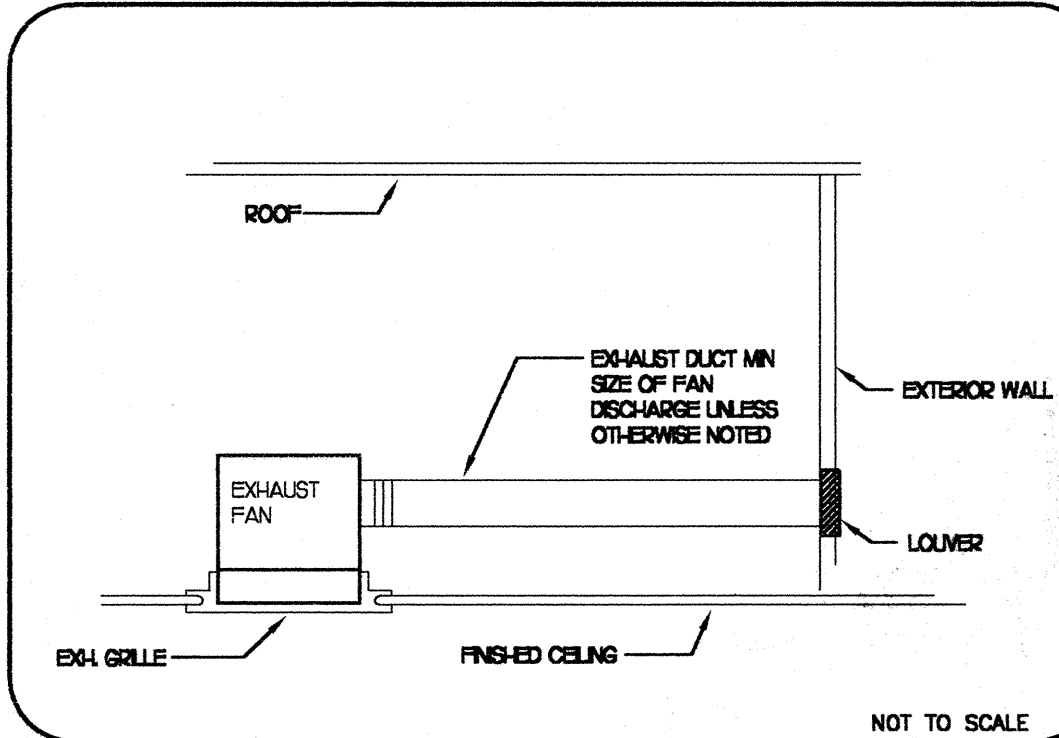
5  
MP2



COOLER PIPING SCHEMATIC

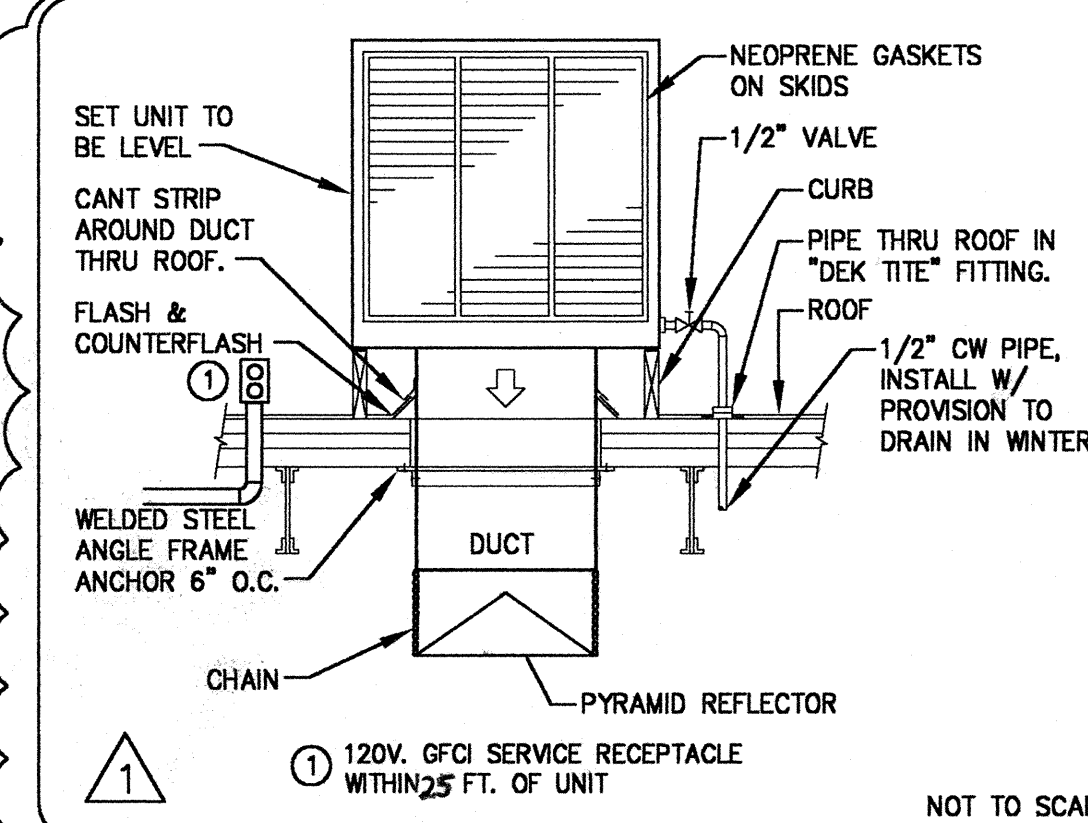
6  
MP2

PLUMBING FIXTURE SCHEDULE													
FIXTURE SPECIFICATIONS						FIXTURE CONNECTIONS				FIXTURE UNITS			
MARK	DESCRIPTION	MANUFACTURER & MODEL NUMBER	FITTING	ACCESSORIES/REMARKS	COLD WATER	HOT WATER	WASTE	VENT	QUANTITY OF FIXTURES	WATER F.U. EACH	TOTAL	WASTE F.U. EACH	TOTAL
WC-1	WATER CLOSET (HANDICAPPED)	MANSFIELD — KILGORE 137-160 18" HIGH	FLOOR MOUNTED	FLUSH TANK, 18" HIGH FLUSH HANDLE ON WIDE SIDE OF ROOM, A.D.A. COMPLIANT	1/2"	—	3"	2"	4	5	20	6	24
L-1	LAVATORY (HANDICAPPED)	MANSFIELD 2018 HB	DELTA 23T-334 A.D.A.	20"x18"x6" DEEP, WALL HUNG, INSUL. TRAP & SUPPLY A.D.A COMPLIANT	1/2"	1/2"	1-1/2"	1-1/2"	4	1	4	2	8
				<div>1</div>									
FFHB	FROST FREE HOSE BIB	WOODFORD B-65	—	INTEGRAL ANTI-SIPHON VACUUM BREAKER	3/4"	—	—	—	2	5	10	—	—
WH-1	WATER HEATER	BRADFORD-WHITE M-1 6U6SS	EXPANSION TANK	1.5 KW 120 V 6 GAL CAPACITY	3/4"	3/4"	—	—	4	—	—	—	—
TOTAL											34	—	32



EXHAUST FAN DETAIL

7  
MP2



EVAPORATIVE COOLER

8  
MP2

## WATER CALCULATIONS

STREET PRESSURE    80 P.S.I.

HORIZONTAL PIPE LENGTH, METER TO LAST FIXTURE ————— 165 FT.

VERTICAL RISE TAP TO HIGHEST FIXTURE ————— 5 FT.

EQUIVALENT LENGTH FOR FITTINGS ————— 85 FT.

TOTAL LENGTH ————— 255 FT.

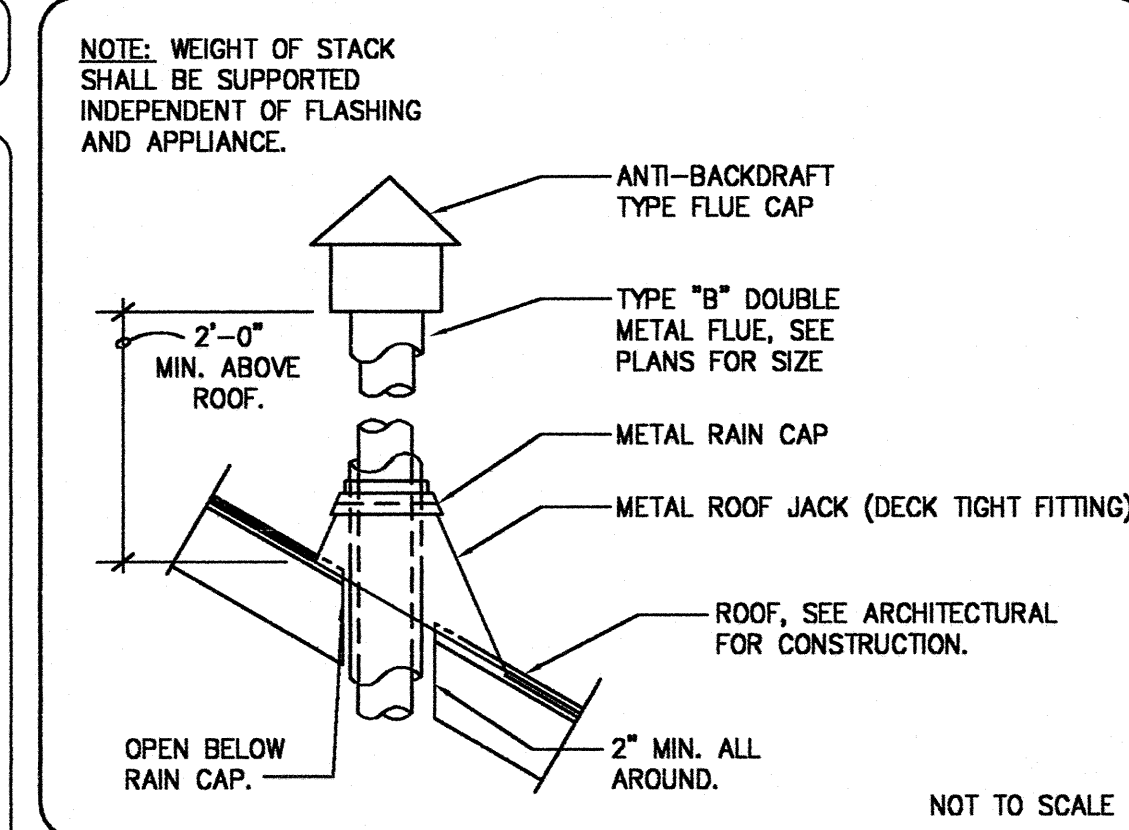
HEIGHT 5 FT. X .43 = 2 P.S.I. LOSS ( STATIC )

TOTAL FIXTURE UNITS 34 GPM 21

SIZE	DEVICE	P.S.I. LOSS		
3/4"	METER	<u>8</u>	STREET PRESSURE	<u>60</u>
	BACKFLOW PREVENTER	<u>8</u>	TOTAL LOSS	<u>33</u>
	STATIC	<u>2</u>	DIFFERENCE -----	<u>27</u>
	FIXTURE	<u>20</u>		
	TOTAL -----	<u>38</u>		

(DIFFERENCE 27 X 100 = 2700 ) ÷ ( TOTAL LENGTH 255 )

EQUALS 10.5 ALLOWABLE PRESSURE DROP, PER 100 FT. PIPE.( 1/4" MAIN REQ'D.)



FLUE THRU PITCHED ROOF

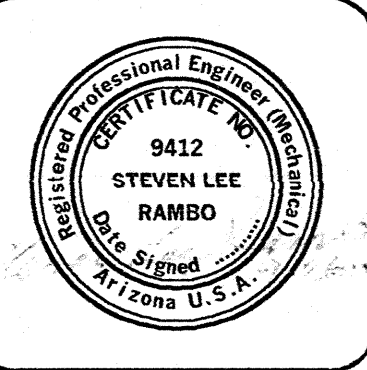
9  
MP2

- PLUMBING GENERAL NOTES**
- COMPLY WITH ALL LOCAL, COUNTY, STATE AND FEDERAL CODES, ORDINANCES, RULES AND REGULATIONS.
  - EXACT LOCATION OF PLUMBING FIXTURES SHALL BE DETERMINED FROM ARCHITECTURAL DRAWINGS.
  - USE 95-5 TIN-ANTIMONY SOLDER ON ALL SOLDERED JOINTS 1/2" THROUGH 2". PREPARE JOINTS WITH SOLVENT AND EMERY CLOTH.
  - CONTRACTOR TO EXTEND WATER PIPING TO ALL FIXTURES, OUTLETS, AND EQUIPMENT. PROVIDE SHUT-OFF VALVES OR FIXTURE STOPS, AS REQUIRED FOR PROPER SERVICE.
  - SIZE ALL HANGERS ON INSULATED LINES TO FIT AROUND OUTSIDE DIAMETER OF INSULATION SPECIFIED WITH ALLOWANCES FOR GALVANIZED SHEET METAL SHIELD.
  - INSTALL DIELECTRIC FITTING BETWEEN FERROUS AND NON-FERROUS MATERIALS.
  - PIPE RELIEF DRAIN FOR WATER HEATER TO OUTSIDE OR APPROVED RECEPTACLE.
  - SOIL AND WASTE PIPING SHALL BE SCHEDULE 40 ABS PIPE.
  - SLOPE SOIL WASTE DRAIN PIPING 3" AND SMALLER AT A GRADIENT SLOPE OF NOT LESS THAN 1/4" P.L.F. UNLESS SPECIFICALLY NOTED ON THE DRAWINGS.
  - EACH VENT SHALL TERMINATE NOT LESS THAN SIX (6) INCHES ABOVE ROOF NOR LESS THAN ONE (1) FOOT FROM ANY VERTICAL SURFACE, AND NOT LESS THAN TEN (10) FEET FROM OR AT LEAST THREE (3) FEET ABOVE ANY WINDOW, DOOR, OPENING, AIR INTAKE OR VENT SHAFT.
  - GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL PIPE W/ MALLEABLE FITTINGS.
  - GAS PIPING JOINTS MAY BE SCREWED.
  - ALL GAS LINE FLEXIBLE PIPE CONNECTORS SHALL BE CONSTRUCTED OF A ONE PIECE DESIGN AND SHALL BE U.L. AND OR AGA APPROVED AS REQUIRED BY LOCAL AUTHORITIES.
  - ADEQUATELY SUPPORT ALL PIPE AGAINST SAGGING, POKETING, SWAYING AND DISPLACEMENT. PROPERLY SPACE AND APPLY HANGERS PER CODE.
  - CONTRACTOR SHALL ROUGH-IN ALL WASTES AND SUPPLIES TO SPECIAL EQUIPMENT ACCORDING TO MANUFACTURER'S SHOP DRAWINGS AND MAKE FINAL CONNECTIONS. ALL SUPPLIES SHALL BE VALVED.
  - GENERAL, MECHANICAL, ELECTRICAL AND PLUMBING CONTRACTORS AND SUBCONTRACTORS SHALL COORDINATE THEIR WORK PRIOR TO INSTALLATION TO PROVIDE FOR PROPER CLEARANCES BETWEEN EQUIPMENT, DUCTWORK, PIPING, JOISTS, CEILINGS, ETC.
  - WATER PIPING SHALL BE TYPE 'L' HARD DRAWN COPPER FOR ABOVE GROUND & TYPE 'K' SOFT COPPER FOR ALL BELOW SLAB, CONFORMING TO ASTM B-88-83.
  - INSTALL 4" BACK WATER VALVE ON SEWER LINE IF REQUIRED.
  - EVAP PIPING TO BE TYPE 'M' HARD DRAWN COPPER.
  - CONDENSATE DRAINS TO BE TYPE 'M' HARD DRAWN COPPER.
  - DOMESTIC HOT WATER PIPE & RECIRC LOOP TO BE INSULATED WITH 1/2" WALL FIBER GLASS INSULATION.
  - FOR ALL VALVES IN WALLS & VALVES ABOVE GYP. BOARD CEILINGS, PROVIDE ACCESS PANELS.

- MECHANICAL GENERAL NOTES**
- ALL MECHANICAL EQUIPMENT LOCATIONS TO COMPLY WITH THE U.M.C.
  - COORDINATE EXACT DIFFUSER AND GRILLE LOCATIONS WITH OTHER TRADES.
  - THE MAXIMUM LENGTH OF ANY FLEX DUCT SHALL NOT EXCEED 8 FT. PROVIDE RIGID RD. DUCT IF FLEX DUCT LENGTH EXCEEDS 8 FT. W/ SHEET METAL ELBOW AT DIFFUSER.
  - PROVIDE 1" DUCT LINER WHERE SHOWN ON DRAWINGS. ALL DUCTS TO BE SHEET METAL WITH 11/2" EXTERIOR INSULATION WITH FOIL FACE, EXCEPT FOR LINED DUCTS.
  - ALL FLEX DUCTS TO BE THERMAFLEX TYPE GKM OR APPROVED EQUAL.
  - ALL OUTSIDE AIR INTAKES SHALL BE MINIMUM 10 FEET FROM ANY EXHAUST OR PLUMBING VENTS.
  - EXTEND 3/4" PVC CONDENSATE DRAIN AS SHOWN ON DRAWING, OR TO NEAREST PLUMBING TAIL PIECE.
  - TEST AND BALANCE SYSTEM. SUBMIT REPORT TO ENGINEER WITHIN 10 DAYS OF COMPLETING TEST AND BALANCE.
  - ALL NEW DUCTWORK TO BE CONSTRUCTED AND INSTALLED IN ACCORDANCE W/ "ASHRAE GUIDE AND SMACNA STANDARDS".
  - MECHANICAL CONTRACTOR TO VERIFY THAT ALL DUCTWORK WILL FIT WHERE INDICATED W/O INTERFERENCE WITH STRUCTURAL MEMBERS OR OTHER MATERIALS OR EQUIPMENT.
  - CONTRACTOR AND OWNER TO VERIFY T-STAT LOCATIONS.
  - COORDINATE ALL MECHANICAL WORK, INCLUDING EQUIPMENT, DUCTWORK AND PIPING, W/ ARCHITECT AND OTHER TRADES PRIOR TO WORK.
  - THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR REGARDING SPACE AVAILABILITY FOR RECESSED LIGHTING AND DUCTWORK TO AVOID RELOCATION DUCTWORK AT THE MECHANICAL CONTRACTOR'S EXPENSE.
  - THERMOSTATS SHALL BE 7 DAY PROGRAMMABLE WITH AUTOMATIC CHANGE-OVER HEATING COVER AND FAN ON CONTINUOUSLY. (NO EXCEPTIONS) HONEYWELL OR EQUAL T-7300 W/COMMERCIAL SUBBASE.
  - DUCTS SHALL CONFORM TO DIMENSIONS ON THE DRAWING UNLESS LOCATION OF STRUCTURAL MEMBERS PROHIBITS. IN CASE OF A CHANGE IN DIMENSIONS, CROSS SECTIONAL AREAS SHALL BE MAINTAINED.
  - ALL DUCTS SHALL BE SUBSTANTIALLY SUPPORTED WITH HANGERS TO THE STRUCTURE. PLACING SUPPORTS NOT OVER 8 FEET APART ALONG THE LENGTH OF THE DUCT. SHEET METAL SHALL BE IN ACCORDANCE WITH THE FOLLOWING SCHEDULE:
- |                  |                |
|------------------|----------------|
| UP TO 12" WIDTH  | 26 GAUGE STEEL |
| 13" TO 30" WIDTH | 24 GAUGE STEEL |
| 31" TO 60" WIDTH | 22 GAUGE STEEL |
- ALL DUCTWORK SHALL BE INSTALLED PER THE LATEST SMACNA MANUAL FOR LOW PRESSURE DESIGN.
  - DUCTWORK TO CONFORM TO CHAPTER 5 & 6 U.M.C.
  - ALL INSULATION, MATERIAL, COVERINGS, ADHESIVES, VAPOR-BARRIERS & TAPES SHALL CONFORM TO NFPA '90A, FLAME SPREAD CLASSIFICATION NOT TO EXCEED 25 AND SMOKE DEVELOPMENT NOT TO EXCEED 50.
  - THE EXHAUST DUCTS MUST TERMINATE 10 FEET HORIZONTALLY FROM OR 3 FT. ABOVE ALL AIR INTAKES.
  - SEAL ALL JOINTS IN DUCTWORK WITH HARDCAST #12B.
  - FURNISH ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, FEES, PERMITS, CERTIFICATE OF INSPECTION, ETC. NECESSARY OR REASONABLE REQUIRED FOR THE COMPLETE INSTALLATION OF ALL AIR-CONDITIONING WORK. THE WORK BE IN STRICT ACCORDANCE ASHRAE GUIDE, AND ALL LOCAL AND STATE CODES, ORDINANCES AND REGULATIONS.
  - PROVIDE RADIUS ELBOWS, TURNING VANES, AND SPLITTER DAMPERS IN BRANCHES & EXTRACTORS WHERE APPLICABLE.
  - DUCT SIZES SHOWN ARE "CLEAR INSIDE" DIMENSIONS.
  - MECHANICAL CONTRACTOR TO VERIFY AND COORDINATE AVAILABLE VOLTAGE, PHASE & MCA LOADS WITH THE ELECTRICAL CONTRACTOR PRIOR TO ORDERING ELECTRICAL & MECHANICAL EQUIPMENT.
  - MECHANICAL CONTRACTOR TO VERIFY THAT ALL SPECIFIED EQUIPMENT IS COMPATIBLE WITH DUCTWORK, STRUCTURE & OTHER PHYSICAL FACTORS BEFORE ORDERING
  - LOCATE ALL DIFFUSERS, GRILLES & REGISTERS ACCORDING TO ARCHITECTURAL REFLECTED CEILING PLAN.
  - ANY PROBLEMS AS A RESULT OF "VALUE ENGINEERING" OR OTHER CHANGES BY OWNER AND OR CONTRACTOR SHALL BE HIS/HER RESPONSIBILITY.
  - SYSTEMS SHALL NOT BE USED FOR TEMPORARY HEATING OR COOLING DURING CONSTRUCTION.
  - FOR ALL VOLUME DAMPERS ABOVE GYP. BOARD CEILINGS, PROVIDE CEILING ACCESS PANELS.

**YAVAPAI ENGINEERING DESIGN SERVICES**  
 300 E. WILLIS SUITE B  
 PRESCOTT, AZ. 86301  
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 FAX (520) 776-4502

REVISIONS	BY
PLAN CHECK 09-21-01	SLR



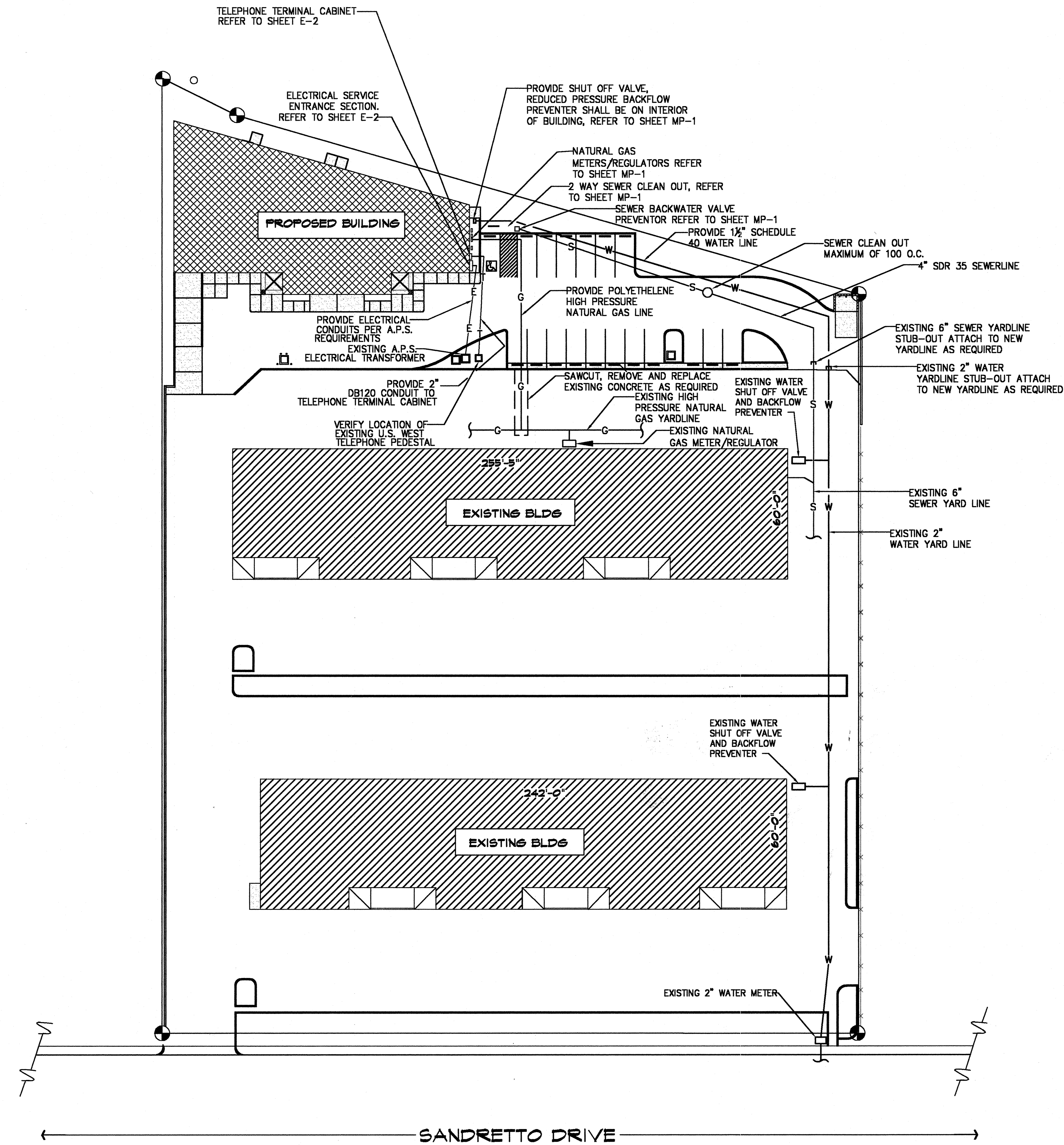
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 (520) 445-5182

DRAWING: MECHANICAL & PLUMBING DETAILS, SCHEDULES, & NOTES  
 PROJECT: COMMERCIAL BUILDING FOR PIERCE PROPERTIES PRESCOTT, AZ.

DRAWN BY G-CADD	CHECKED BY S.L.R.
DATE 04-18-01	SCALE AS NOTED
JOB NO. 049-01	SHEET MP-2
OF 11	SHEETS



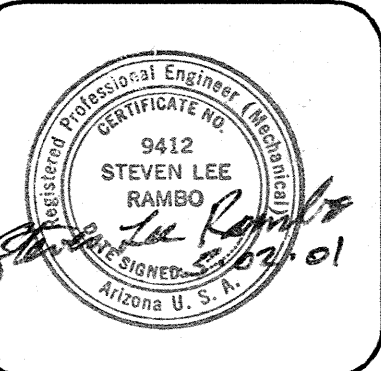


PLUMBING / ELECTRICAL SITE PLAN

SCALE: 1" = 30'-0"

**YAVAPAI ENGINEERING DESIGN SERVICES**  
 300 E. WILLIS SUITE B  
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 PRESCOTT, AZ 86305

DRAWING: PLUMBING/ ELECTRICAL SITE PLAN  
 PROJECT: COMMERCIAL BUILDING  
 FOR PIERCE PROPERTIES  
 PRESCOTT, AZ.

DRAWN BY Q-CADD	 SHEETS
CHECKED BY S.L.R.	
DATE 04-18-01	
SCALE AS NOTED	
JOB NO. 049-01	
OF 11	SHEETS



## ELECTRICAL SYMBOLS

NOTE: NOT ALL SYMBOLS ARE USED ON THIS PROJECT

FLUORESCENT FIXTURE, WITH FIXTURE DESIGNATED BY LETTER. SMALL LETTER INDICATES SWITCH LEG	FLUORESCENT STRIP FIXTURE.
NIGHT LIGHT- NOT SWITCHED	Ceiling or wallmounted fixture.
FLUORESCENT STRIP FIXTURE.	
Ceiling or wallmounted fixture.	
PORCELAIN PULL CHAIN FIXTURE	
JUNCTION BOX	
JUNCTION BOX WITH FLEX CONNECTION.	
SINGLE FACE EXIT SIGN- NOT SWITCHED	
DOUBLE FACED EXIT SIGN- NOT SWITCHED.	
TWO HEAD EMERGENCY LIGHT WITH BATTERY.	
S SINGLE POLE SWITCH, + 48" A.F.F. (20A-120/277V)	
S <sub>3</sub> THREE WAY SWITCH, + 48" A.F.F. (20A-120/277V)	
S <sub>4</sub> 4-WAY SWITCH +48" AFF (20A-120/277V)	
S <sub>p</sub> SWITCH AND PILOT LIGHT (20A-120-/277V)	
S <sub>K</sub> SINGLE POLE SWITCH, KEY OPERATED (20A)	
DIMMER CONTROL, + 48" A.F.F. TYPE, RATING AS NOTED	
DUPLEX RECEPTACLE, + 18" A.F.F. (20A)	
DUPLEX RECEPTACLE ABOVE COUNTER, VERIFY HEIGHT. (20A)	
FOURPLEX RECEPTACLE, + 18" A.F.F. (20A)	
HALF SWITCHED DUPLEX RECEPTACLE (20A)	
SPECIAL RECEPTACLE - SIZE & TYPE AS NOTED	
POWER / PHONE / DATA FLUSH FLOOR OUTLET	
TELEPHONE OUTLET PLASTER RING AT + 18" A.F.F. HUBBELL #P12 COVERPLATE. 3/4" C. TO CEILING SPACE UNLESS SHOWN WITH HOMERUNS.	
DATA SYSTEM OUTLET, 4" SQUARE BOX AND COVERPLATE, 3/4" C. TO CEILING SPACE UNLESS SHOWN WITH HOMERUN, + 18" A.F.F.	
TELE/DATA COMBO OUTLET, 4" SQUARE BOX AND COVERPLATE, 3/4" C. TO CEILING SPACE UNLESS SHOWN WITH HOMERUN, + 18" A.F.F.	
CABLE TELEVISION (CATV) OUTLET PLASTER RING AT + 18" A.F.F. U.N.O. HUBBELL COVERPLATE. 3/4" C. TO CEILING SPACE UNLESS SHOWN WITH HOMERUNS.	
TELEPHONE SYSTEM CONDUIT HOMERUN WITH NYLON PULLWIRE (1" MIN UNO)	
CLOSED CIRCUIT TV (CCTV) OUTLET SAME AS CATV OUTLET	
DISCONNECT SWITCH, FUSE PER EQUIPMENT MANUFACTURER'S RECOMMENDATION. OUTSIDE NEMA 3R - N.F. = NON-FUSED.	
COMBINATION STARTER AND FUSIBLE DISCONNECT SWITCH SIZE AS NOTED	
MOTOR	
SM THERMAL PROTECTED SWITCH	
MOTOR STARTER - SHADING INDICATES F.B.O.	
DISTRIBUTION PANELBOARD.	
BRANCH CIRCUIT PANELBOARD.	
CONDUIT BELOW FLOOR OR UNDERGROUND	
CONDUIT IN WALL OR ABOVE CEILING	
HOMERUN TO PANEL, NEUTRAL AND PHASE WIRING DESIGNATION (SEE GROUNDING NOTE)	
A.F.F. ABOVE FINISHED FLOOR ( @ OF OUTLET )	
A.F.G. ABOVE FINISHED GRADE ( @ OF OUTLET )	
E.C. EMPTY CONDUIT	
G.F.I. GROUND FAULT INTERRUPTER	
WP WEATHERPROOF	
NF NON-FUSED	
UNO UNLESS OTHERWISE NOTED	
NL NIGHT LIGHT	
TYP TYPICAL	
TMB TELEPHONE MOUNTING BOARD	
TTC TELEPHONE TERMINAL CABINET	
SES SERVICE ENTRANCE SECTION	
EF EXHAUST FAN	

## SPECIFICATIONS

- PRIOR TO SUBMITTING BID, SUBCONTRACTORS SHALL EXAMINE ALL GENERAL CONSTRUCTION DRAWINGS AND VISIT THE CONSTRUCTION SITE TO BECOME FAMILIAR WITH EXISTING CONDITIONS UNDER WHICH HE WILL HAVE TO OPERATE AND WHICH IN ANY WAY AFFECTS THE WORK UNDER HIS CONTRACT. NO SUBSEQUENT ALLOWANCE WILL BE MADE IN BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLIGENCE ON HIS PART.
- THE SUBCONTRACTOR SHALL BE HELD FULLY RESPONSIBLE FOR THE PROPER RESTORATION OF ALL EXISTING SURFACES REQUIRING PATCHING, PLASTERING, PAINTING AND /OR OTHER REPAIR DUE TO THE INSTALLATION OF ELECTRICAL WORK UNDER THE TERMS OF THE CONTRACT. CLOSE ALL OPENINGS, REPAIR ALL SURFACES, ETC., AS REQUIRED.
- SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS, ELEVATIONS AND BUILDING DETAILS. VERIFY LOCATION OF ALL OUTLETS, SWITCHES, AND WALL MOUNTED LIGHTING FIXTURES WITH ARCHITECTURAL DRAWINGS AND ACTUAL CONDITIONS. VERIFY ALL CEILING TYPES WITH ARCHITECTURAL DRAWINGS BEFORE ORDERING FIXTURES.
- PRIOR TO ROUGH-IN AND FINAL CONNECTION, VERIFY ELECTRICAL CHARACTERISTICS AND EXACT LOCATION OF EQUIPMENT.
- GROUT AND SEAL ALL CONDUIT PENETRATIONS OF WALLS AND FLOOR SLABS TO PRESERVE FIRE RATING AND WATERTIGHT INTEGRITY.
- ALL WIRING TO BE INSTALLED IN RACEWAYS. TYPE OF RACEWAY SHALL BE AS REQUIRED BY CODE. MINIMUM CONDUIT SIZE SHALL BE 1/2". MC CABLE WILL BE ALLOWED WHERE APPROVED BY LOCAL AUTHORITIES.
- BRANCH CIRCUIT WIRING SHALL BE THHN/THWN INSULATION. PANEL FEEDERS SHALL BE TYPE XHHW. ALL WIRE SHALL BE COPPER. MINIMUM WIRE SIZE SHALL BE #12. NONMETALLIC- SHEATHED CABLE (NMC), OFTEN REFERRED TO AS "ROMEX" AS DEFINED BY ARTICLE 336 OF THE NEC MAY BE USED FOR GENERAL WIRING AS ACCEPTED BY THE OWNER AND BY THE LOCAL CODE ENFORCING AUTHORITY.
- PROVIDE CODE SIZED BOND WIRE IN ALL EMT, FLEXIBLE CONDUIT, MC, OR AC CABLES.
- ALL ELECTRICAL EQUIPMENT SHALL BE NEW, U.L. APPROVED AND COMMERCIAL GRADE.
- WIRE RATED FOR 150° CENTIGRADE SHALL BE USED FOR ALL INCANDESCENT LIGHTING FIXTURES.
- ALL ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST NATIONAL CODE, (N.E.C.), AND ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES.
- PROVIDE TYPEWRITTEN DESCRIPTIVE PANEL DIRECTORIES

## PANELBOARD SYMBOLS

- \* CONTINUOUS DUTY/LARGEST MOTOR @ 125%
- ◆ PROVIDE BREAKER W/ HANDLE "LOCK-ON" DEVICE
- CIRCUIT VIA TIMECLOCK

PANELBOARD				LA				SCHEDULE			
MAINS: 225A MLD				LOAD-VA				LOCATION: SEE PLAN			
VOLTAGE: 120 / 208 - 3Ø - 4W								MOUNTING: SURFACE			
TYPE: SQ D 'NGDD' OR EQUAL								MIN. A.I.C.: 10,000			
CIRCUIT DESCRIPTION		BKR	CIR. NO.	Ø A	Ø B	Ø C	CIR. NO.	BKR	CIRCUIT DESCRIPTION		
LIGHTS	20	1	1530				20	1	RECEPT'S.		
		3	900					3			
LIGHTS		5	955					5	RECEPT'S.		
		7	900					7			
LIGHTS - EXTERIOR		9	975					9	RECEPT'S.		
		11	720					11			
BASEBOARD HEATER		13	1500					13			
		15	300					15	RECEPT. - TMB		
UNIT HEATER UH-1		17	830					17			
		19	1150					19	EVAP. COOLER EVC-1		
WATER HEATER		21				1500		21			
		23				1150		23			
SPARE		25						25	SPARE		
		27						27			
SPACE		29						29	SPACE		
		31						31			
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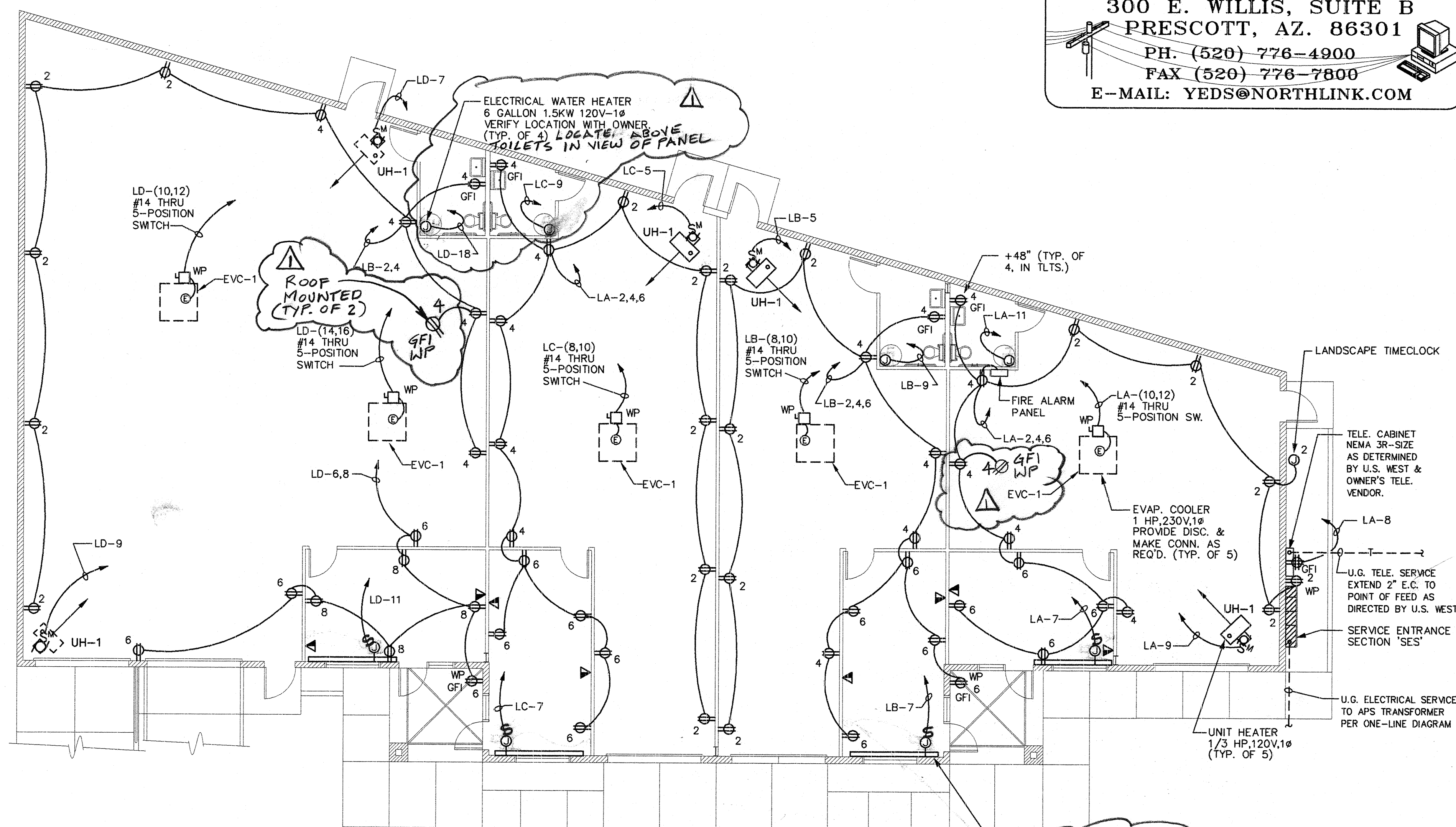


- \* CONTINUOUS DUTY/LARGEST MOTOR @ 125%
- PROVIDE BREAKER W/ HANDLE "LOCK-ON" DEVICE
- ◆ CIRCUIT VIA TIMECLOCK

PANELBOARD				LB		SCHEDULE			
MAINS: 225A MLD				LOAD-VA		LOCATION: SEE PLAN		MOUNTING: SURFACE	
VOLTAGE: 120 / 208						MIN. A.I.C.: 10,000			
TYPE: SQ D 'MOOD' OR EQUAL									
CIRCUIT DESCRIPTION		BKR.	CIR. NO.	Ø A	Ø B	Ø C	CIR. NO.	BKR.	CIRCUIT DESCRIPTION
LIGHTS	20	1	1315				20	1	RECEPT'S.
			900				2		
LIGHTS			3	890			4		RECEPT'S.
				900					
UNIT HEATER UH-1			5			830	6		RECEPT'S.
						900			
BASEBOARD HEATER			7	1500			20		
				1150			8		EVAP. COOLER EVC-1
WATER HEATER			9		1500		10	2	
				1150					
SPARE			11				20	1	SPARE
							12		
SPARE			13						SPARE
							14		
SPACE			15						SPACE
							16		
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							42		
TOTAL LOAD PER PHASE:				H1Ø	4865	4440	1730	H1Ø A= 4865 / 120 = 40.5 AMPS	

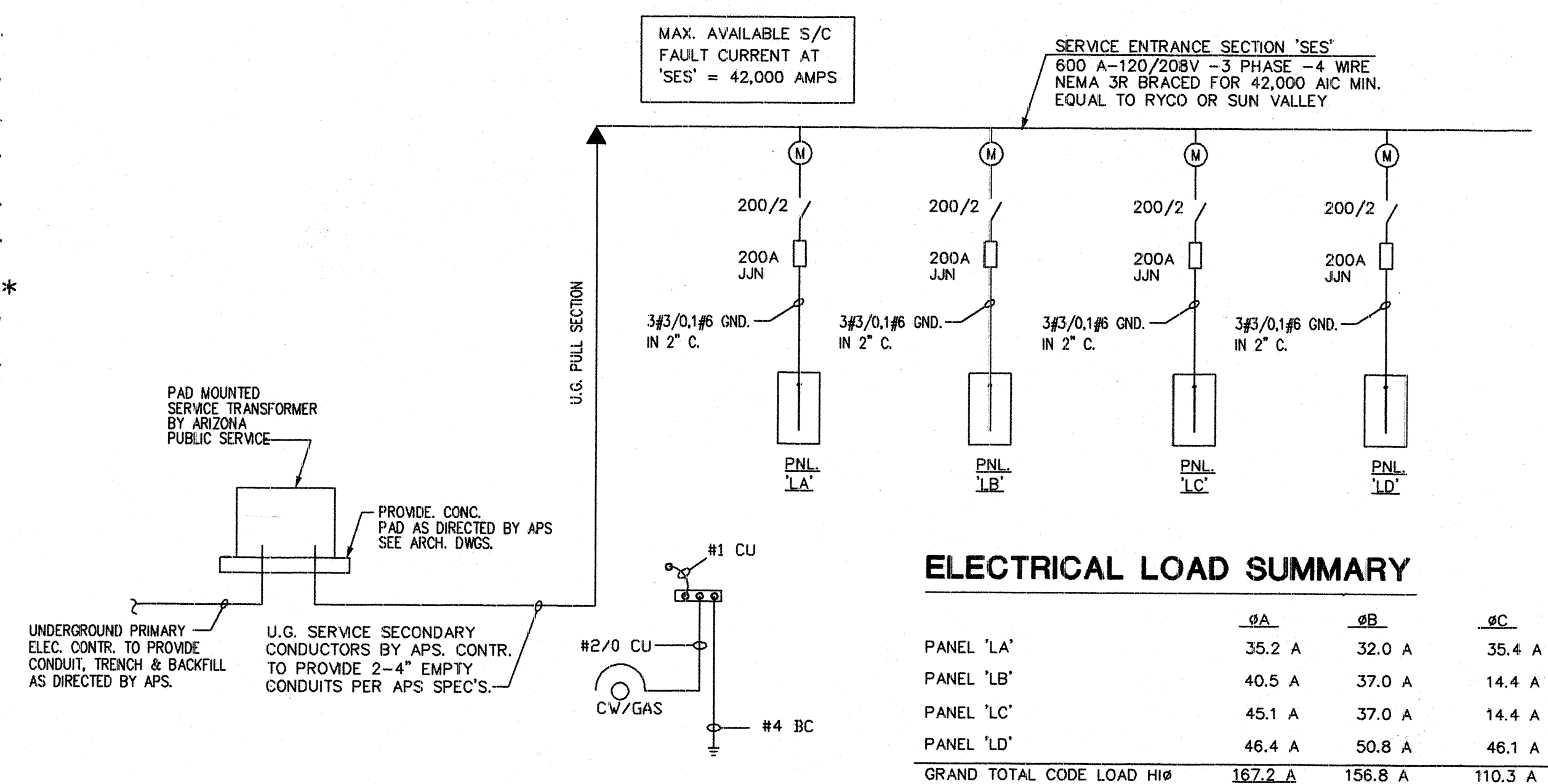
PANELBOARD				LC			SCHEDULE				
MAINS: 255A MLD				LOAD - VA			LOCATION: SEE PLAN		MOUNTING: SURFACE		
VOLTAGE: 120 / 208							MIN. A.I.C.: 10,000				
TYPE: S0 D 'NOOD' OR EQUAL											
CIRCUIT DESCRIPTION		BKR.	CIR. NO.	Ø A	Ø B	Ø C	CIR. NO.	BKR.	CIRCUIT DESCRIPTION		
LIGHTS	1	20	1	1860			2	20	RECEPT'S.		
LIGHTS	1		3		890		1		RECEPT'S.		
					900		4				
UNIT HEATER UH-1	1		5			830	6		RECEPT'S.		
						900	20				
BASEBOARD HEATER	1		7	1500			8		EVAP. COOLER EVC-1		
				1150			10	2			
WATER HEATER	1		9		1500		12	1	SPARE		
				1150			14		SPARE		
SPARE			11				16		SPARE		
SPARE			13				18				
			15				20				
SPACE			17				22				
			19				24				
			21				26				
			23				28				
			25				30				
			27				32				
			29				34				
			31				36				
			33				38				
			35				40				
			37				42				
			39								
			41								
TOTAL LOAD PER PHASE:				H1Ø	5410	4440	1730	H1Ø A= 5410 / 120 = 45.1	AMPS		

PANELBOARD						LD		SCHEDULE			
MAINS: 225A MLD						LOAD-VA		LOCATION: SEE PLAN			
VOLTAGE: 120 / 208								MOUNTING: SURFACE			
TYPE: SQ D "NGDY" DR EQUAL.								MIN. A.I.C.: 10,000			
CIRCUIT DESCRIPTION	BKR.	CIR NO.	Ø A	Ø B	Ø C	CIR NO.	BKR.	CIRCUIT DESCRIPTION			
LIGHTS	20	1	1970			20	2	RECEPT'S.			
		1	900				1				
LIGHTS		3		2300			4				
				900							
LIGHTS		5			890		6				
					780						
UNIT HEATER UH-1		7	830				8				
			720				20				
UNIT HEATER UH-1		9		830			10	EVAP. COOLER EVC-1			
				920							
BASEBOARD HEATER		11			1500		12				
					920		2				
SPARE		13					20				
			1150				14	EVAP. COOLER EVC-1			
		15					2				
				1150			16				
		17					20	WATER HEATER			
					1500		1				
		19					18				
							20	SPACE			
		21					22				
		23					24				
SPACE		25					26				
		27					28				
		29					30				
		31					32				
		33					34				
		35					36				
		37					38				
		39					40				
		41					42				
TOTAL LOAD PER PHASE:			H#	S570	6100	5530	H#	B= 6100 / 120 = 50.8	AMPS		



## POWER FLOOR PLAN

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



## ONE LINE DIAGRAM

N.T.S.

**ELECTRICAL DESIGN & CADD SERVICES**  
**300 E. WILLIS, SUITE B**  
**PRESCOTT, AZ. 86301**  
**PH: (520) 776-4900**  
**FAX (520) 776-7800**  
**E-MAIL: YEDS@NORTHLINK.COM**



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**KENSON**  
Construction Co., Inc.

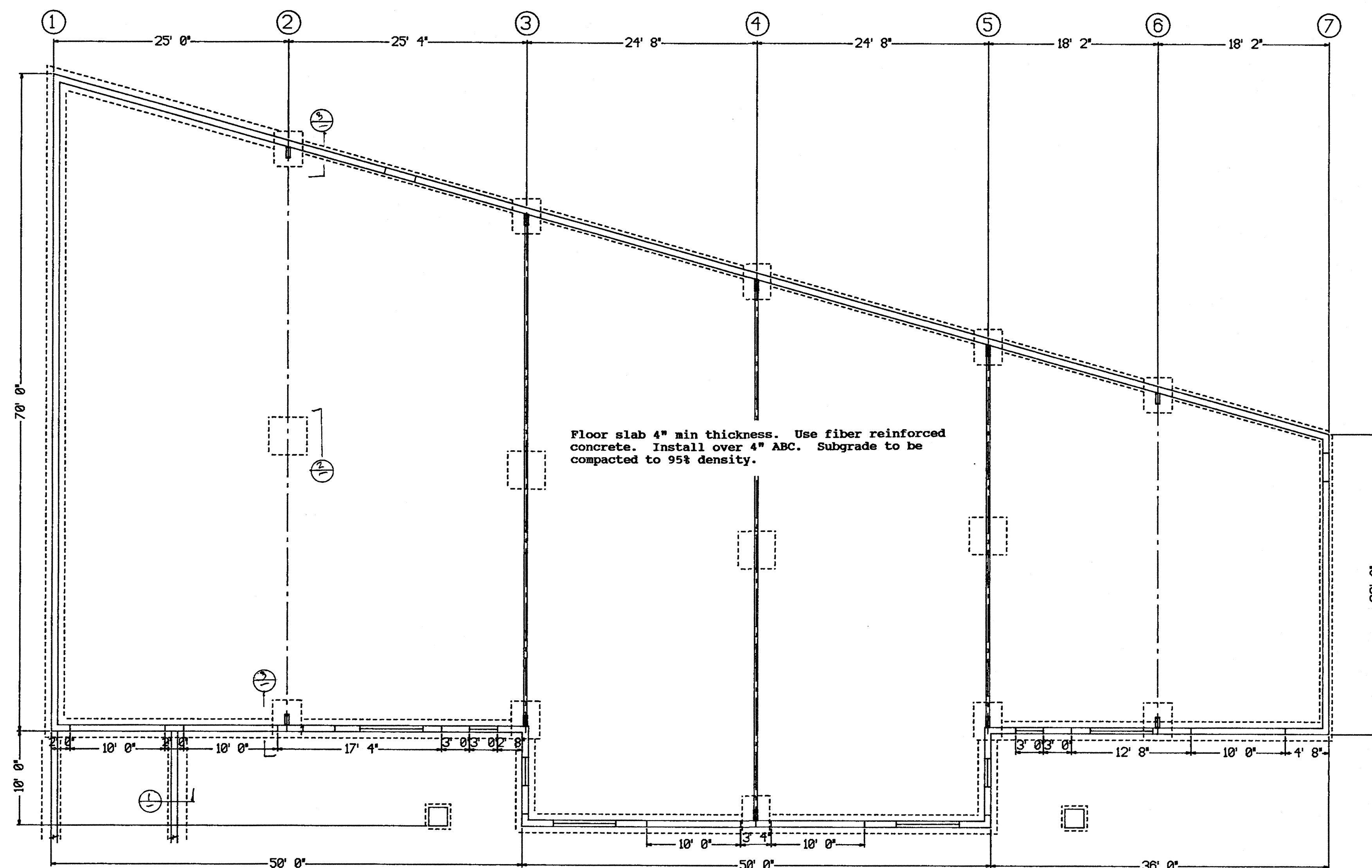
520 445-5192  
PRESCOTT, AZ 86305

**DRAWING:** ELECTRICAL POWER PLAN, LOAD CALCULATIONS, ONE-LINE DIAGRAM, & PANEL SCHEDULES

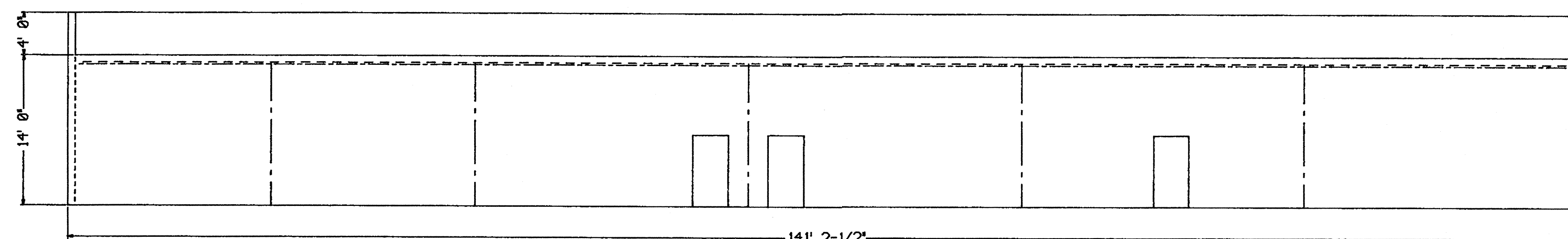
**PROJECT:** COMMERCIAL BUILDING FOR PIERCE PROPERTIES  
PRESCOTT AZ

DRAWN BY
RA
CHECKED BY
AO
DATE
4-18-2001
SCALE
AS NOTED
JOB NO.
01-03
SHEET



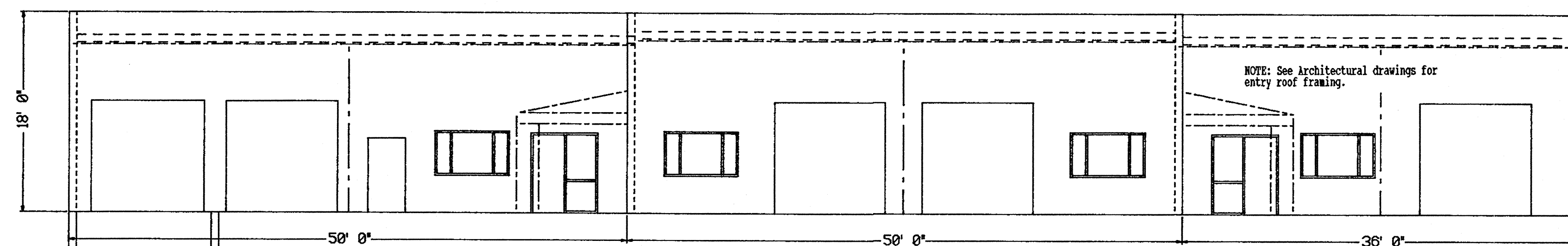


FOUNDATION PLAN



BACK ELEVATION

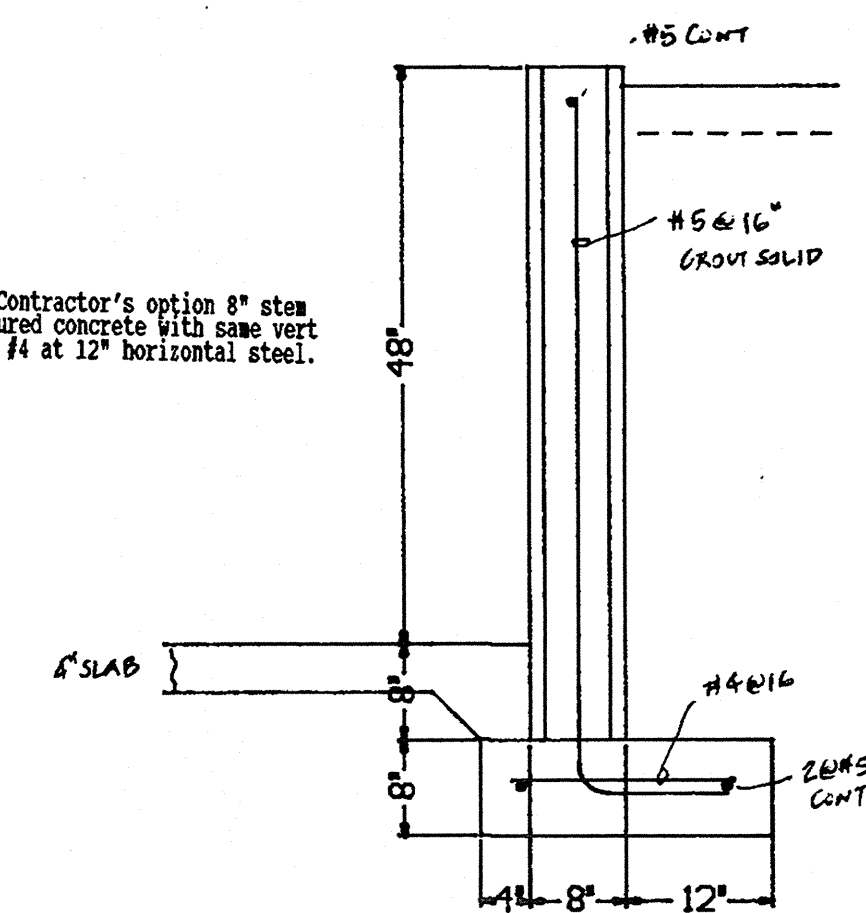
NOTE: See Architectural drawings for wall opening dimensions not shown.



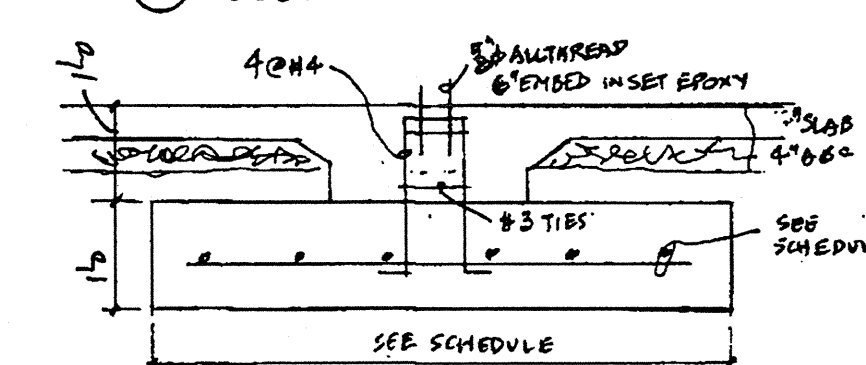
FRONT ELEVATION

NOTE: See Architectural drawings for entry roof framing.

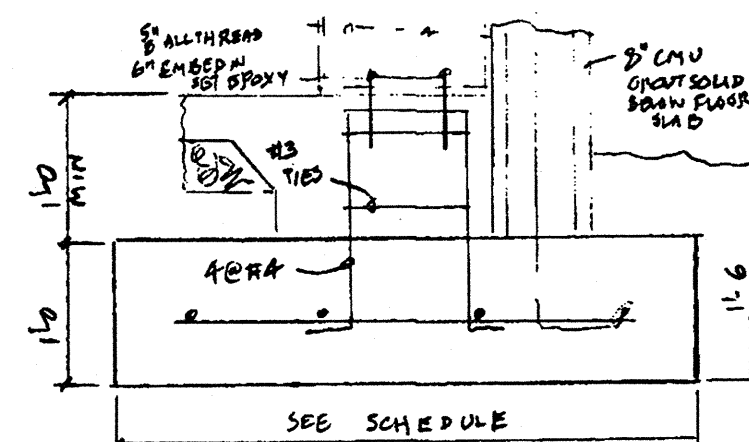
NOTE: At Contractor's option 8\"/>



① DOCK SIDEWALLS



② INTERIOR COLUMN PAD



③ END COLUMN PAD

#### MASONRY

Hollow concrete masonry units shall conform to ASTM C90, Grade N type 1,  $F'm = 1,500$  psi, running bond, Mortar Type S, 1,800 psi., Grout 2,000 psi. Mechanically vibrate grout in vertical spaces immediately after pouring and again about 5 minutes later. Provide cleanouts if grout lift exceeds 4'-0\"/>

#### VERTICAL REINFORCING

One #5 in center of grout at center of wall, continuous full height of wall at all corners, intersections, wall ends, beam bearings, jambs, each side of control joints and at intervals not to exceed 32\"/>

#### HORIZONTAL REINFORCING

Two #5 in minimum 8\"/>

Use 24\"/>

#### FOUNDATION SCHEDULE:

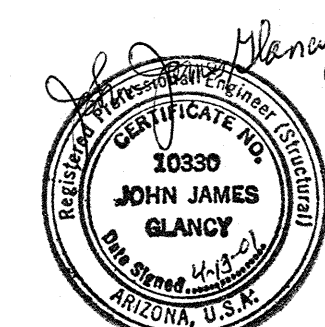
LOCATION	SIZE	REINFORCING
North Frame Cols (Lines 2-6)	3' 0" x 3' 9"	#5 @ 12" Ea Way
Interior Cpl Pads (Lines 2-5)	4' 0" x 4' 0"	#5 @ 12" Ea Way
South Frame Cols (Lines 2-6)	3' 0" x 4' 0"	#5 @ 12" Ea Way
Entry CMU Piers	2' 8" x 2' 8"	#5 @ 12" Ea Way

Foundations are 1' 0\"/>

Footings for CMU walls are 2' 0\"/>

#### GENERAL NOTES

1997 UBC CODE - 80 MPH EXP \"C\"  
SEISMIC ZONE 2B -  $Z = .20$   
LIVE LOAD - 30 PSF SNOW  
DEAD LOAD - 5 PSF ROOF  
METAL DECK - 24 GA \"ULTRA-DEK\" PANELS  
LT. GA. SHAP - PER LT. GA STRUCT INSTITUTE  
STRUCT STEEL - A36 MISC PLS, ANGLES, CHANNELS  
A572-GR 50 WF BEAMS (as noted)  
WELDS - E70XX ELECTRODES  
MASONRY -  $F'm = 1500$  PSI  
REINFORCING - A615-GR 60 (GR 40 FOR #3 AND #4)  
CONCRETE -  $F'c = 3000$  PSI QUALITY (2500 PSI DESIGN)  
SOIL BEARING - 1500 PSF (CLASS 4 - TABLE 18-I-A)



KENSON CONSTRUCTION CO.  
PIERCE PROPERTIES  
PRESCOTT, AZ

SHEET S1 of 2



