

# XTREME CLEAN AUTO SPA

## 616 WHITE SULPHUR ROAD, GAINESVILLE, GA

### GENERAL NOTES and INFORMATION

1. ALL FEDERAL, STATE AND COUNTY CODES, ORDINANCES, REGULATIONS, ETC. SHALL BE CONSIDERED AS PART OF THE SPECIFICATIONS FOR THIS BUILDING AND TAKE PRECEDENCE OVER ITEMS SHOWN, DESCRIBED OR IMPLIED WHERE SAME ARE AT VARIANCE.
2. OWNER, GENERAL CONTRACTOR AND ALL SUB-CONTRACTORS ARE RESPONSIBLE FOR REVIEWING AND APPROVING THE INFORMATION SHOWN ON THESE PLANS PRIOR TO COMMENCEMENT OF CONSTRUCTION. ANY DISCREPANCIES FOUND SHALL BE REPORTED IMMEDIATELY TO THE ARCHITECT.
3. PRIOR TO CONSTRUCTION, G.C. (GENERAL CONTRACTOR) SHALL VERIFY ALL LOADS FOR COMPLIANCE WITH ALL APPLICABLE BUILDING CODES. REVISE SIZES AS REQUIRED AND NOTIFY ARCHITECT OF ALL CHANGES.
4. TOP OF FOOTING ELEVATIONS SHALL BE SET BY G.C. FOR SPECIFIC SITE CONDITIONS.
5. FOOTINGS ARE DESIGNED FOR THE SOIL BEARING CAPACITY OF 2500 PSF AND ARE TO BE VERIFIED BY A REGISTERED SOILS ENGINEER AS REQUIRED.
6. G.C. SHALL CONFIRM ALL ELECTRICAL OUTLET AND FIXTURE LOCATIONS WITH OWNERS.

### DESIGN TEAM

#### OWNER:

#### ARCHITECT

RICHARD LANDAU ARCHITECTS & PLANNERS  
2266 GAINESVILLE HIGHWAY  
BLAIRSVILLE, GA 30512

CONTACT: RICHARD LANDAU  
706-745-5824  
775-890-8644 FAX

#### CONTRACTOR:

WINKLER AND WINKLER  
CONSTRUCTION PROFESSIONALS  
P.O. BOX 2282  
BLAIRSVILLE, GA 30514

#### STRUCTURAL ENGINEER

JOHN McWATERS STRUCTURAL ENGINEER  
GOLD DUST TRACE DAHLONEGA, GA 30533  
(706) 362-9229 202

#### MECHANICAL/ELECTRICAL ENGINEER

TRINITY ENGINEERING GROUP P.C.  
446 GREEN STREET  
GAINESVILLE, GEORGIA 30501

CONTACT: KEVIN HARRISON  
770-535-1044  
770-535-0037 FAX

### LIST OF DRAWINGS

- A-1.0 COVER SHEET
- A-2.0 SITE PLAN (INCLUDED FOR REFERENCE ONLY)
- A-3.1 FLOOR AND EQUIPMENT PLANS
- A-4.1 EXTERIOR ELEVATIONS
- A-4.2 EXTERIOR ELEVATIONS
- A-5.1 DOOR, WINDOW, FINISH SCHEDULE
- A-6.1 INTERIOR ELEVATIONS
- A-7.1 ARCHITECTURAL SECTIONS
- A-8.1 REFLECTED CEILING PLAN
- A-9.1 ROOF PLAN AND AWNING DETAILS
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- S-1.0 SLAB AND FOUNDATION PLAN
- S-2.0 ROOF FRAMING PLAN
- S-3.0 DETAILS AND SECTIONS
- M-0.1 SCHEDULES, NOTES AND DETAILS
- M-1.1 MECHANICAL PLAN
- P-0.0 SCHEDULES, NOTES AND DETAILS
- P-1.1 PLUMBING SANITARY PLAN
- P-2.1 PLUMBING WATER PLAN
- E-0.1 LEGEND, NOTES AND DETAILS
- E-0.2 RISERS AND SCHEDULES
- E-1.0 ELECTRICAL SITE PLAN
- E-1.1 POWER PLAN AND NOTES
- E-2.1 LIGHTING PLAN & NOTES

### CODE SYNOPSIS

PROJECT NUMBER	PROJECT LOCATION	PROJECT DESCRIPTION
18-19	XTREME CLEAN AUTO SPA WHITE SULPHUR ROAD GAINESVILLE, GA	4541 sq AUTOMATIC CAR WASH BUILDING

OCCUPANCY & CONSTRUCTION	
OCCUPANCY CLASSIFICATION (IBC 511.2)	
GROUP	B
DIVISION	BUSINESS

LIFE SAFETY	
EXIST AND EGRESS REQUIREMENTS	
EXIT ACCESS COMPLIES WITH IBC SECTION 1014 AND TABLE 1021.1	
MEANS OF EGRESS WIDTH (IBC 1015)	

### GOVERNING CODES

TYPE	YEAR	AFFLIGABLE CODES
ARCHITECTURAL	2012 EDITION WITH 6A AMENDMENTS	INTERNATIONAL BUILDING CODE (IBC)
ACCESSIBILITY	2010 ADA	ADA/AGCS (ANSI)
ELECTRICAL	2014 EDITION WITH NO AMENDMENTS	NATIONAL ELECTRICAL CODE (NEC)
ENERGY	2009 EDITION WITH 6A AMENDMENTS	INTERNATIONAL ENERGY CODE
FIRE SAFETY	2012 EDITION WITH 6A AMENDMENTS	INTERNATIONAL FIRE CODE
GAS / FUELS	2012 EDITION WITH 6A AMENDMENTS	INTERNATIONAL FUEL/GAS CODE
LIFE SAFETY	2012 EDITION	LIFE SAFETY CODE
MECHANICAL	2012 EDITION WITH 6A AMENDMENTS	INTERNATIONAL MECHANICAL CODE
PLUMBING	2012 EDITION WITH 6A AMENDMENTS	INTERNATIONAL PLUMBING CODE
SEISMIC HAZARD EXPOSURE GROUP	2012 EDITION WITH 6A AMENDMENTS	INTERNATIONAL BUILDING CODE (IBC)

TYPE OF CONSTRUCTION (IBC TABLE 601)			
CONSTRUCTION TYPE	V-B	FIRE RATING	UNSPRINKLERED
BUILDING HEIGHT AND AREA LIMITATIONS (IBC TABLE 503)			
BUILDING CONSTRUCTION	V-B	OCCUPANCY	B BUSINESS
ALLOWABLE HEIGHT	40 FT	ACTUAL HEIGHT	37'-5"
ALLOWABLE STORIES	TWO	ACTUAL STORIES	ONE
ALLOWABLE AREA PER FLOOR	9,000 SF	ACTUAL AREA PER FLOOR	4510 SF
(IBC TABLE 503, SECTIONS 504 & 506)			
FIRE CONSTRUCTION PROTECTION REQUIRED FOR TYPE CONSTRUCTION (IBC TABLE 601)			
BUILDING ELEMENTS	RATING	RATING	RATING
BEARING WALLS - EXTERIOR	0	FLOOR & FLOOR/CEILING	0
- INTERIOR	0	ROOF & ROOF/CEILING	0
NON-BEARING - EXTERIOR	0	EXTERIOR DOORS & WINDOWS	0
STRUCTURAL FRAME	0	STAIR CONSTRUCTION	N/A
PARTITIONS - PERMANENT	0	DRAFTSTOPPING-FLOORS	N/A
SHAFT ENCLOSURES	N/A	-ATTIC	N/A

EGRESS WIDTH		REQUIRED	INCHES
		FURNISHED	INCHES
STAIR UNITS OF EGRESS WIDTH		REQUIRED	N/A
		FURNISHED	N/A
COMPLIES WITH DIAGONAL RULE (IBC 1015.2.1)			
DISTANCE OF TRAVEL	MAXIMUM DISTANCE OF TRAVEL	100 FT	
		ACTUAL MAXIMUM DISTANCE OF TRAVEL	
SPACES WITH ONE MEANS OF EGRESS		MAXIMUM OCCUPANT LOAD (IBC 1014.3.2)	N/A
		MAXIMUM ALLOWABLE TRAVEL BASED ON OCCUPANT LOAD	N/A
EXITING (PER 1001 & 1004) SHOWN ON SHEET:		A-11.1	
MINIMUM EGRESS WIDTHS, SEATING & AISLES		N/A	
MAINTAINED PER 1005, 1007 & 1014.4 SHOWN ON SHEET:		N/A	
EMERGENCY ESCAPE FOR RESIDENTIAL OCCUPANCY & INSTITUTIONAL-1 PROVIDED PER SECTION 1026 SHOWN ON SHEET		N/A	

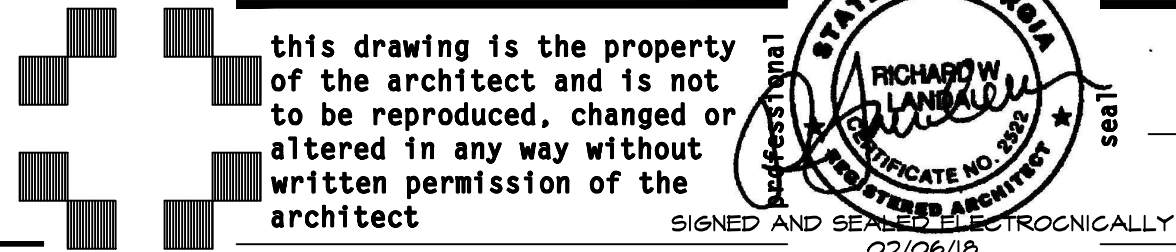
ACCESSIBILITY	
DESIGN CONFORMS TO ICC/ANSI A117.1-2003	
SEE SHEET A-5.1 FOR RESTROOM PLANS AND ELEVATIONS	
AN ACCESSIBLE EGRESS ROUTE IS PROVIDED THROUGHOUT THIS BUILDING PER IBC 1103 & 1007	

ISSUED FOR PERMITS  
AND CONSTRUCTION  
FEBRUARY 23, 2018

**richard landau**

ARCHITECTS & PLANNERS  
1-800-576-1783

2266 Gainesville Highway Blairsville, Georgia 30512  
(706) 745-5824 mountainarchitect @ msn.com fax (775) 890-8644



XTREME CLEAN AUTO SPA project name

616 WHITE SULPHUR ROAD GAINESVILLE, GA 30501

18-19 project number

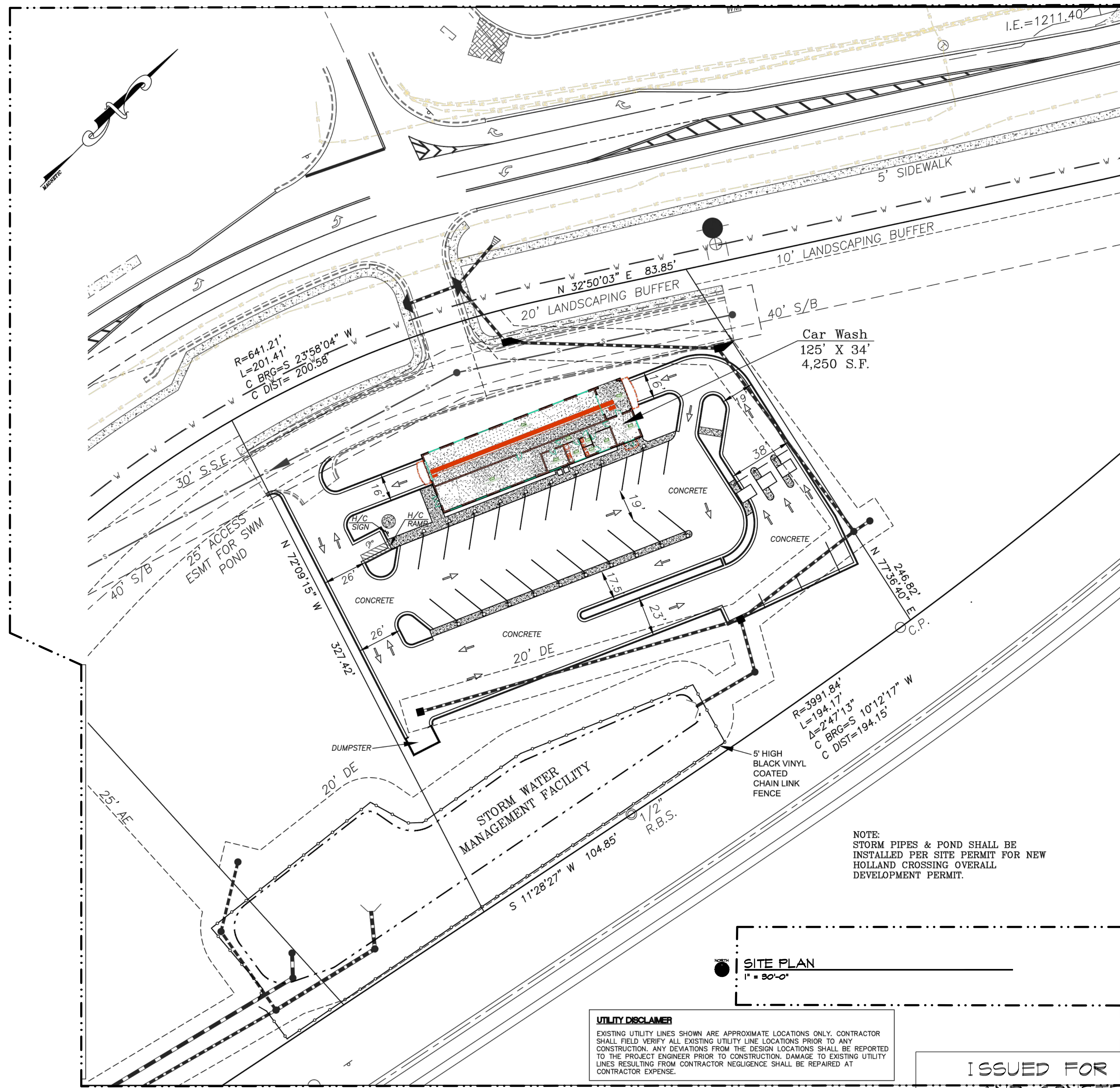
drawn J.W.H.

COVER SHEET sheet title

checked R.L.

approved

sheet 1 of 1  
A-1.0  
date 01/10/18  
revisions



SITE PLAN PROVIDED FOR REFERENCE ONLY.  
MEYERS & CO. CIVIL ENGINEERS  
P.O. BOX 659  
GAINESVILLE, GA 30503  
1-770-247-9743

NOTE:  
STORM PIPES & POND SHALL BE  
INSTALLED PER SITE PERMIT FOR NEW  
HOLLAND CROSSING OVERALL  
DEVELOPMENT PERMIT.

SITE PLAN  
1" = 50'-0"

**UTILITY DISCLAIMER**  
EXISTING UTILITY LINES SHOWN ARE APPROXIMATE LOCATIONS ONLY. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LINE LOCATIONS PRIOR TO ANY CONSTRUCTION. ANY DEVIATIONS FROM THE DESIGN LOCATIONS SHALL BE REPORTED TO THE PROJECT ENGINEER PRIOR TO CONSTRUCTION. DAMAGE TO EXISTING UTILITY LINES RESULTING FROM CONTRACTOR NEGLIGENCE SHALL BE REPAIRED AT CONTRACTOR EXPENSE.

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project name  
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616 WHITE SULPHUR ROAD GAINESVILLE, GA 30501

project  
**18-19**

number

sheet title  
**SITE PLAN- FOR REFERENCE ONLY**

drawn J.W.H.

checked R.L.

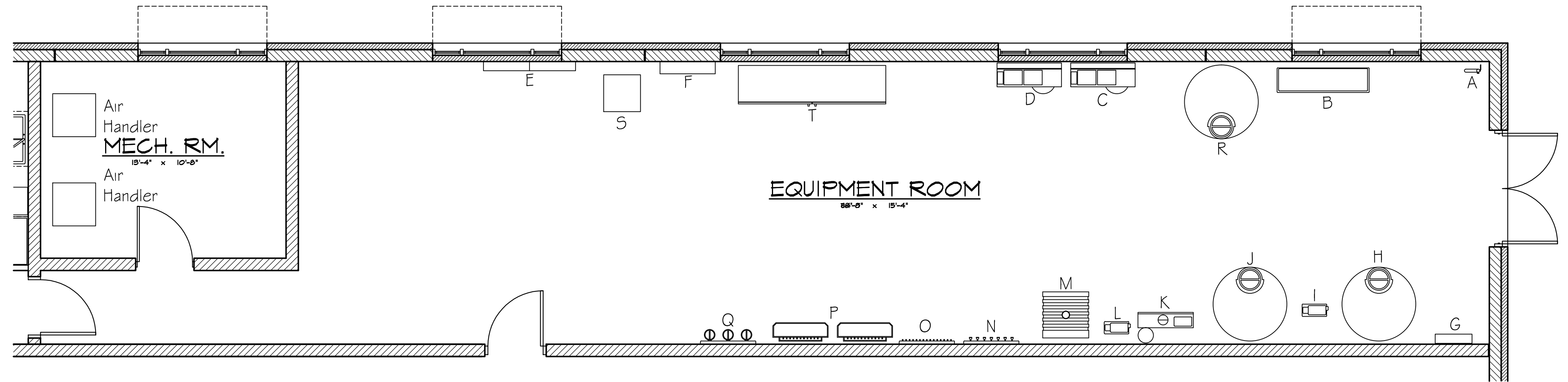
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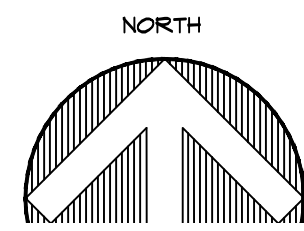
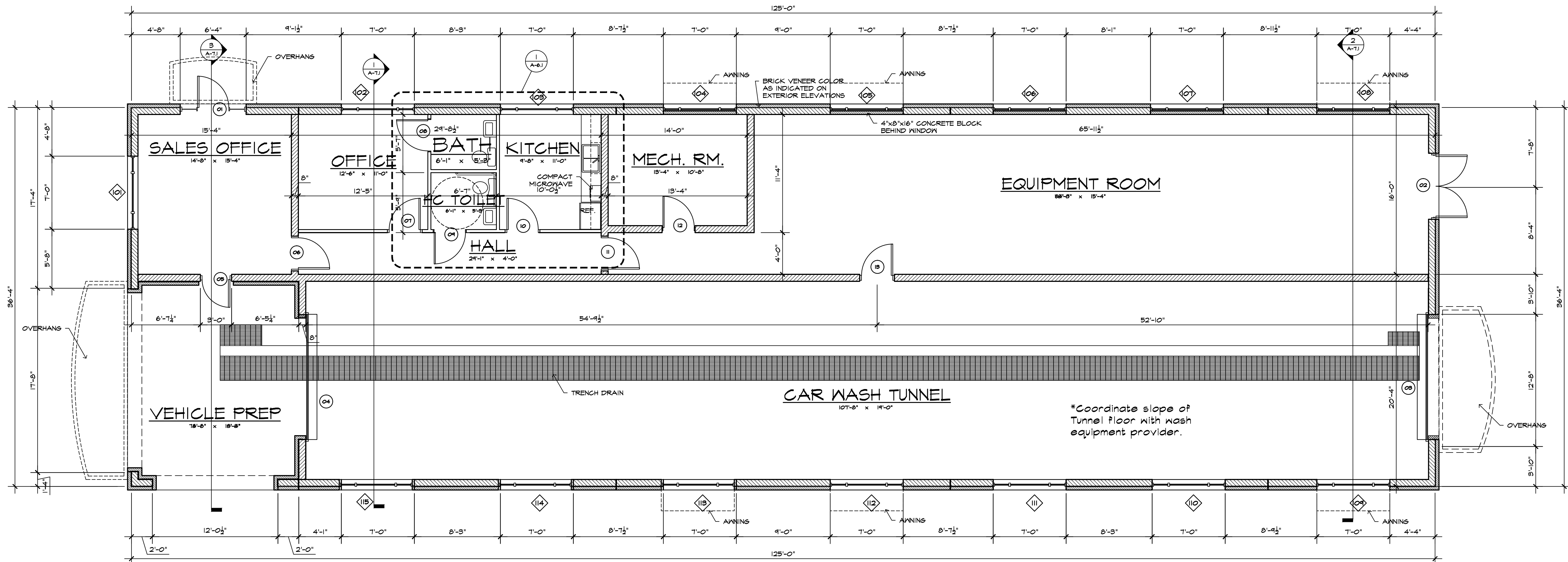
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revisions

Type	Description
A	Water Main Entry
B	Water Reclaim System
C	Air Compressor
D	Air Dryer
E	Two Section Electrical Sub-Panel
F	3-Phase 277-480 Main Distribution Panel
G	Chemical Panel
H	Reverse Osmosis System Reject Tank
I	Reverse Osmosis System Repressurization
J	Reverse Osmosis System Storage Tank
K	Reverse Osmosis System
L	Reverse Osmosis System Repressurization Pump
M	High Pressure Pump
N	Air Distribution Panel
O	Water Distribution Panel
P	Chemical Panel
Q	Chemical Pumps
R	Water Reclaim Storage Tank
S	Step Down Transformer
T	Master Control Center



**EQUIPMENT PLAN**  
1/4" = 1'-0"



**FLOOR PLAN**  
3/16" = 1'-0"

- Concrete Block
- Metal Studs
- Brick

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FLOOR AND EQUIPMENT PLANS sheet title

checked R.L.

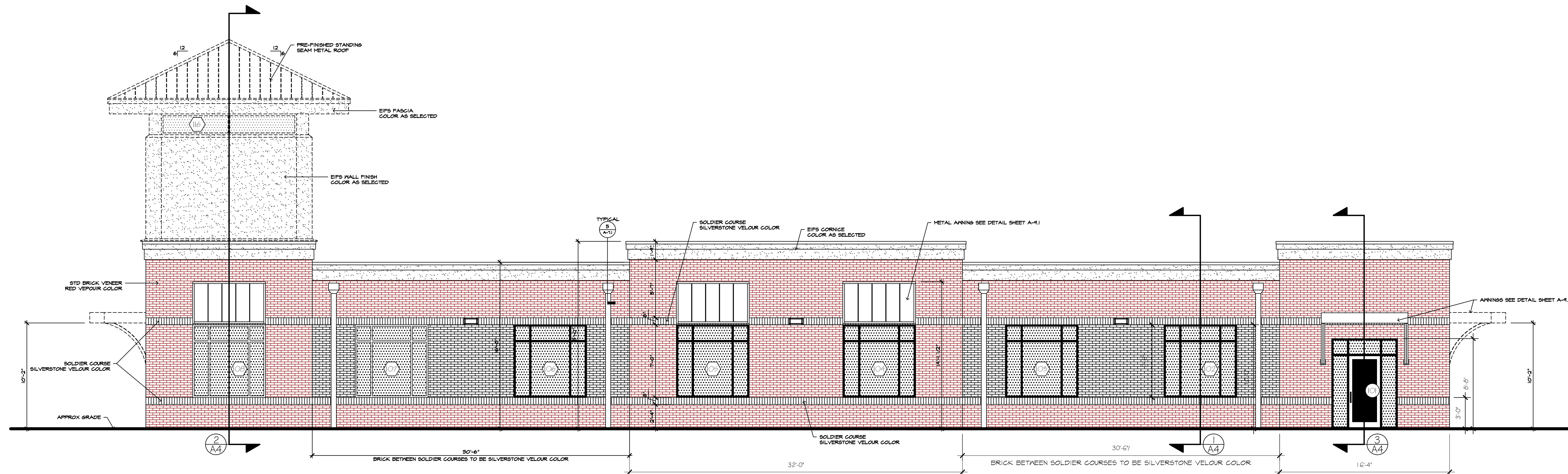
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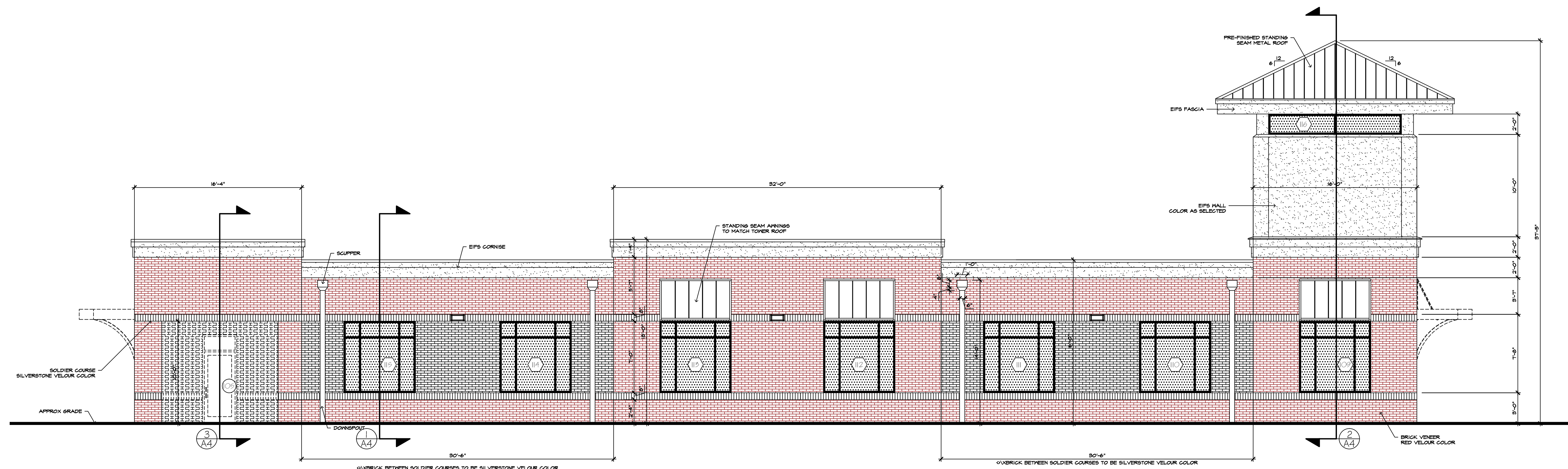
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of

date 01/10/18  
revisions



**REAR ELEVATION**  
3/16" = 1'-0"



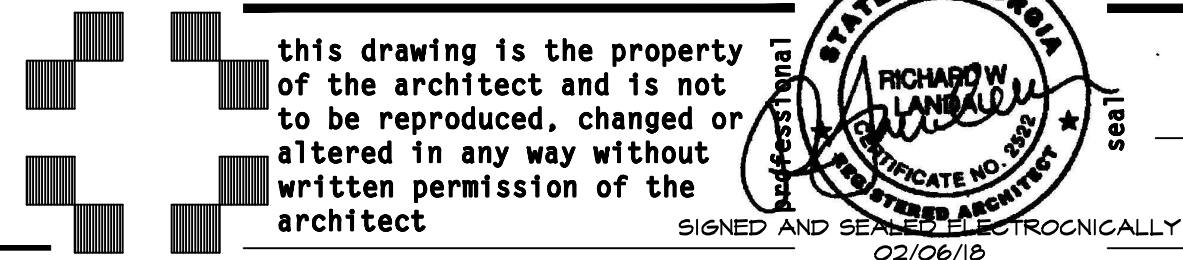
**FRONT ELEVATION**  
3/16" = 1'-0"

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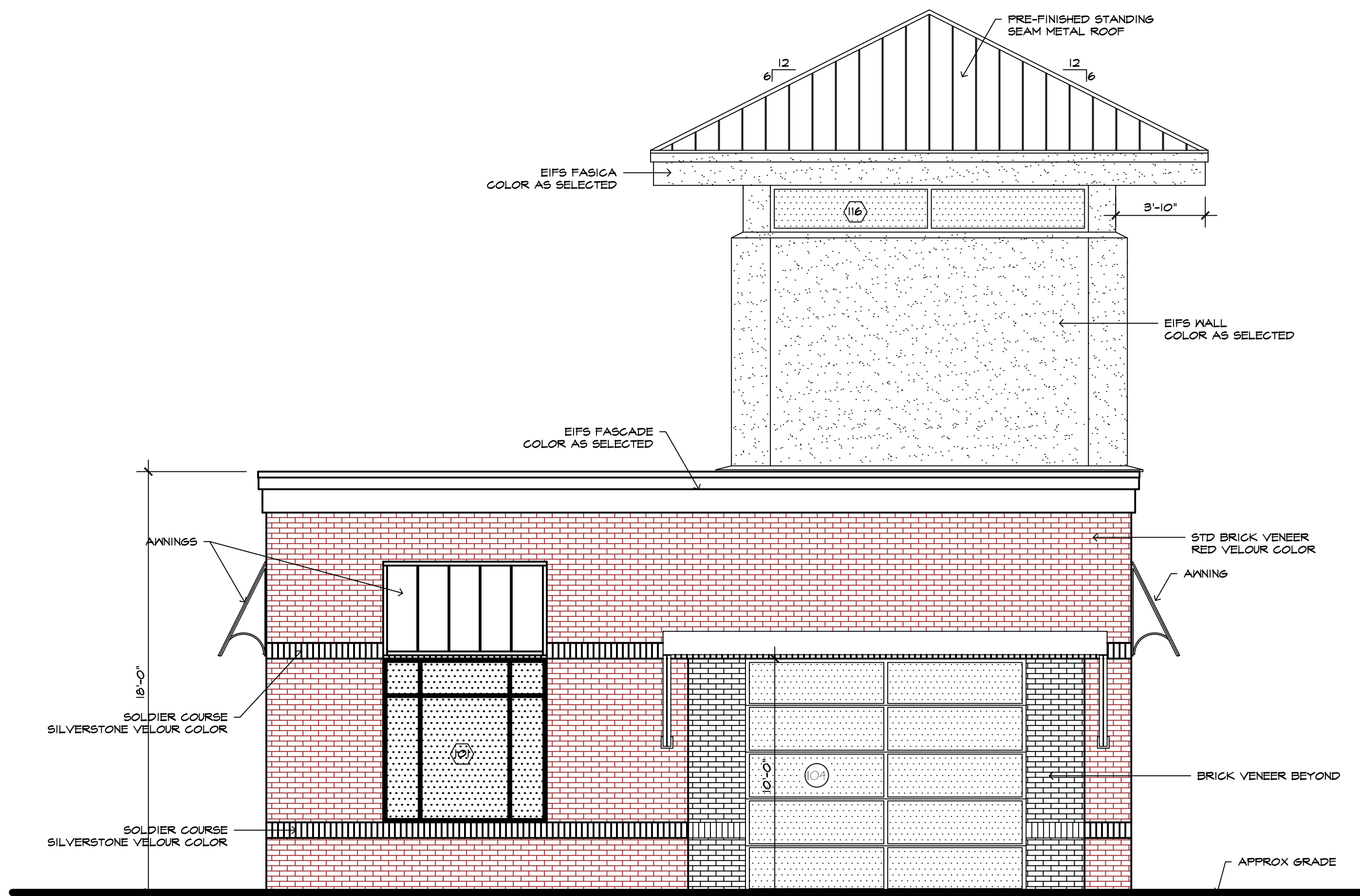
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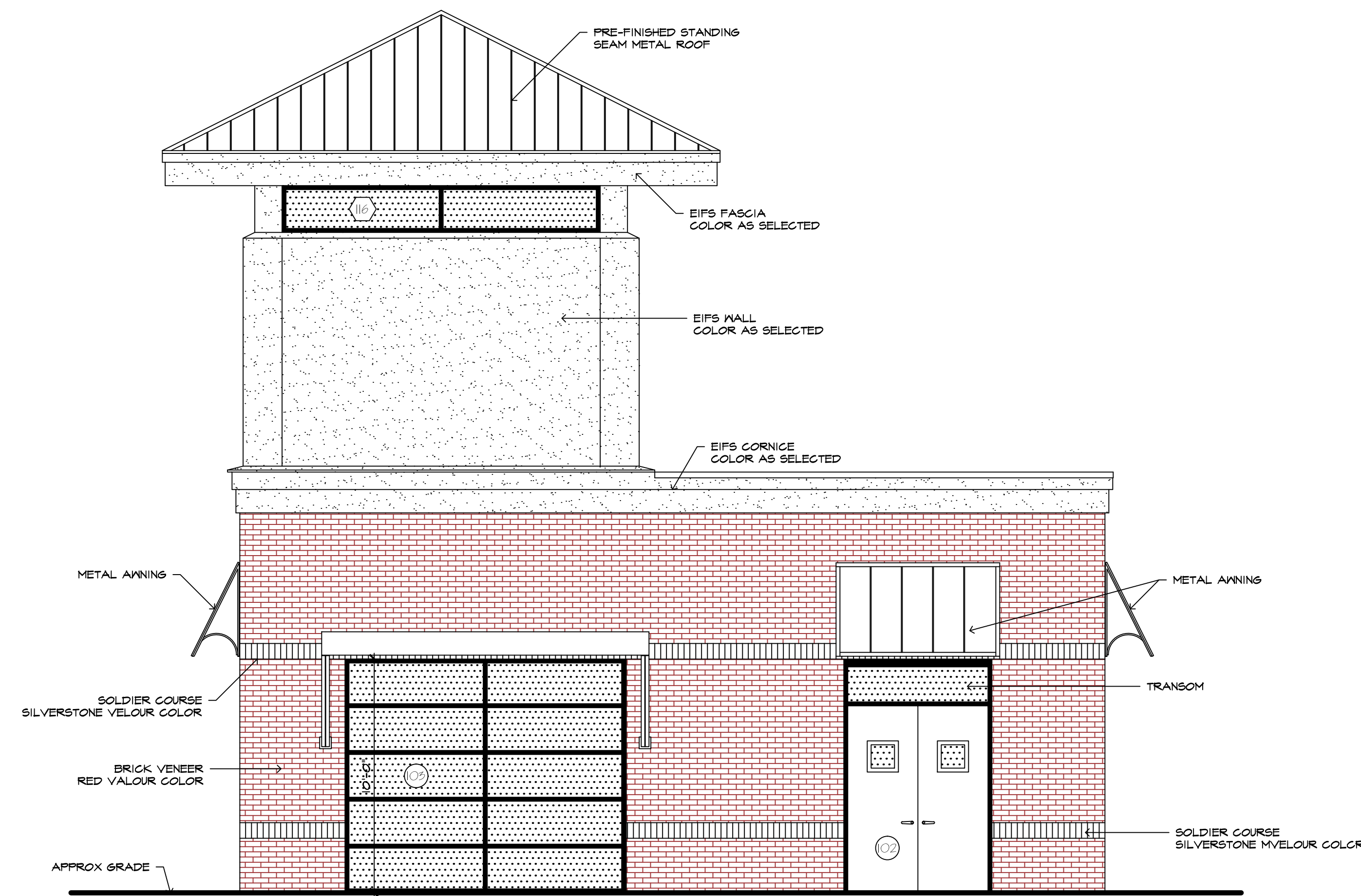
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4 of 4

date 01/10/18  
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**LEFT SIDE ELEVATION**  
1/4" = 1'-0"



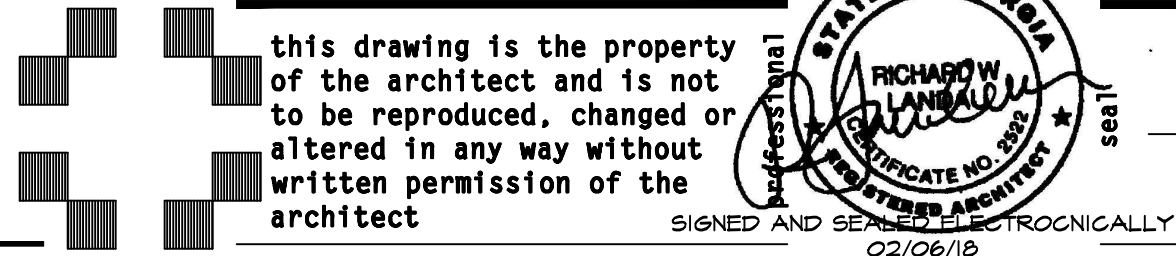
**RIGHT SIDE ELEVATION**  
1/4" = 1'-0"

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drawn J.W.H.

EXTERIOR ELEVATIONS sheet title

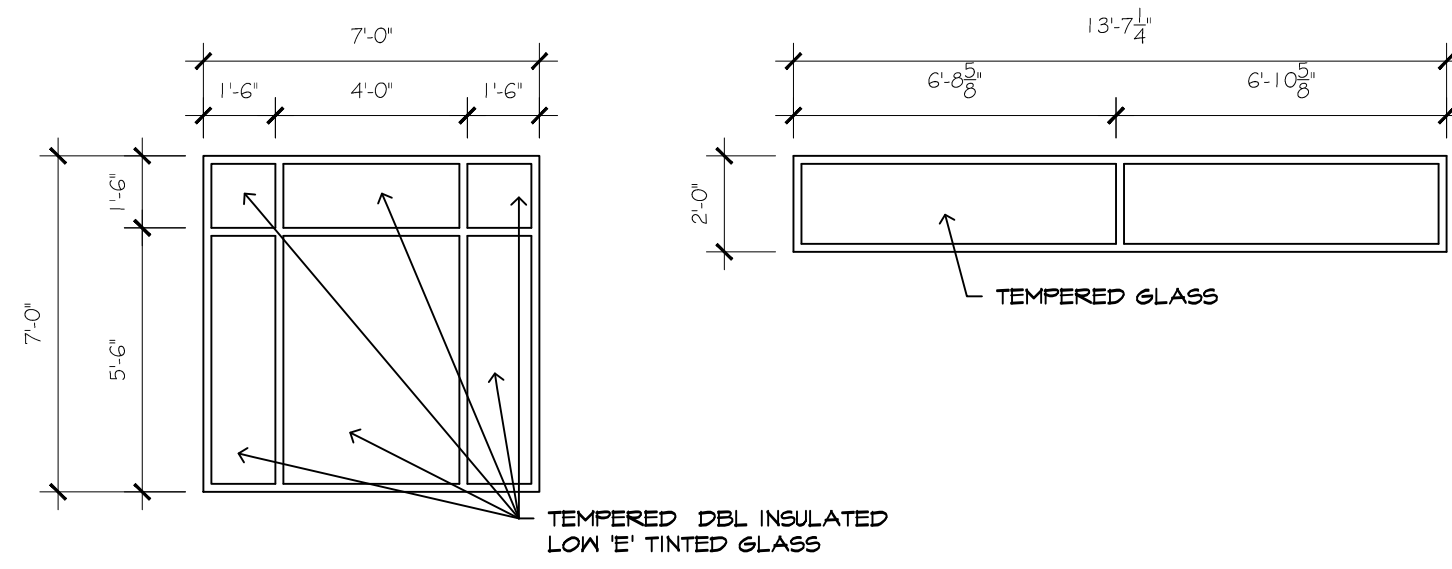
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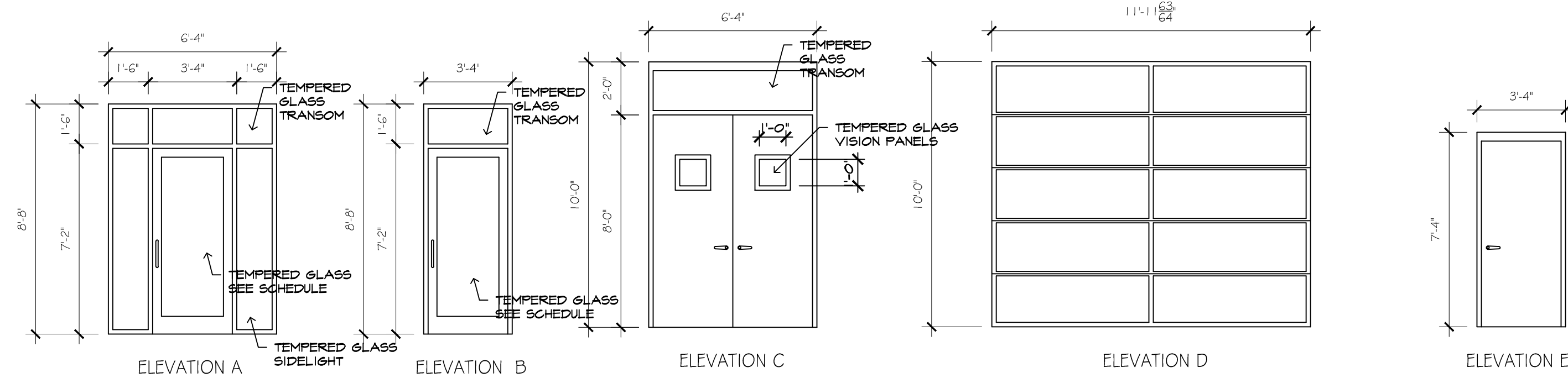
### DOOR AND FRAME SCHEDULE

MARK	DOOR SIZE	TYPE	DOOR		FRAME		HARDWARE	ELEVATION	NOTES	
			GLAZING	FINISH	MATERIAL	FINISH				MATERIAL
1	3'-0" x 7'-0"	STOREFRONT	TEMPERED DOUBLE INSULATED, LOW E, TINTED	ANODIZED	ALUMINUM/GLASS	ANODIZED	ALUMINUM	FUSH/PULLS, DEADBOLT W/ INTERIOR THUMBTURN, CLOSER, PIVOTS OR BUTTS	A	WITH TEMPERED GLASS TRANSOM AND SIDELIGHTS
2	FR 3'-0" x 8'-0"	DOUBLE HINGED, FLUSH	TEMPERED CLEAR	PAINTED	H.M.	PAINTED	H.M.	LOCKSET, DEADBOLT, SURFACE BOLTS, CRASH CHAINS	C	WITH 12X12 TEMPERED GLASS VISION PANEL AND TRANSOM
3	12'-0" x 10'-0"	OVERHEAD COILING	--	PRE-FINISHED	ALUMINUM	PRE-FINISHED	ALUMINUM	BY MFR.	D	--
4	12'-0" x 10'-0"	OVERHEAD COILING	--	PRE-FINISHED	ALUMINUM	PRE-FINISHED	ALUMINUM	BY MFR.	D	--
5	2'-8" x 7'-0"	STOREFRONT	TEMPERED DOUBLE INSULATED, LOW E, TINTED	ANODIZED	ALUMINUM/GLASS	ANODIZED	ALUMINUM	FUSH/PULLS, DEADBOLT W/ INTERIOR THUMBTURN, CLOSER, PIVOTS OR BUTTS	B	WITH TEMPERED GLASS TRANSOM
6	3'-0" x 6'-8"	HINGED SINGLE, FLUSH	--	PAINT	H.M.	PAINT	H.M.	LOCKSET, 1 1/2 PR BUTTS	E	--
7	3'-0" x 6'-8"	HINGED SINGLE, FLUSH	--	PAINT	H.M.	PAINT	H.M.	LOCKSET, 1 1/2 PR BUTTS	E	--
8	3'-0" x 6'-8"	HINGED SINGLE, FLUSH	--	PAINT	H.M.	PAINT	H.M.	PRIVACY LATCH, 1 1/2 PR BUTTS	E	--
9	3'-0" x 6'-8"	HINGED SINGLE, FLUSH	--	PAINT	H.M.	PAINT	H.M.	PRIVACY LATCH, 1 1/2 PR BUTTS	E	--
10	3'-0" x 6'-8"	HINGED SINGLE, FLUSH	--	PAINT	H.M.	PAINT	H.M.	LOCKSET, 1 1/2 PR BUTTS	E	--
11	3'-0" x 6'-8"	HINGED SINGLE, FLUSH	--	PAINT	H.M.	PAINT	H.M.	LOCKSET, 1 1/2 PR BUTTS	E	--
12	3'-0" x 6'-8"	HINGED SINGLE, FLUSH	--	PAINT	H.M.	PAINT	H.M.	LOCKSET, 1 1/2 PR BUTTS	E	--
13	3'-0" x 6'-8"	HINGED SINGLE, FLUSH	--	PAINT	H.M.	PAINT	H.M.	LOCKSET, 1 1/2 PR BUTTS	E	--



Window 101 THRU 115

Window 116



### DOOR ELEVATIONS

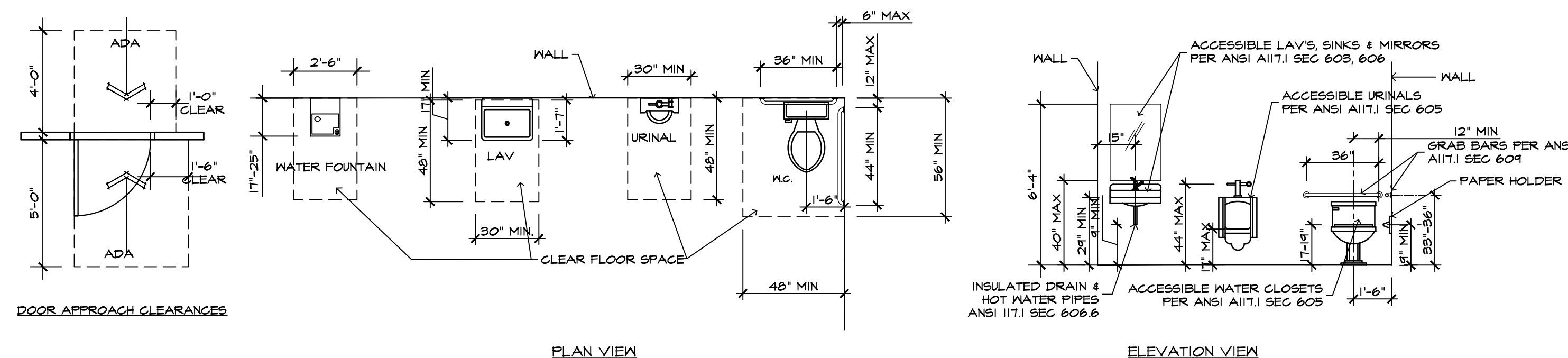
1/4" = 1'-0"

### WINDOW SCHEDULE

1/4" = 1'-0"

### ROOM FINISH SCHEDULE

Room Number	ROOM NAME	FLOOR	BASE	WALLS				CEILING		NOTES
				N	S	E	W	MATL	CLG HGT	
101	CAR WASH TUNNEL	BROOMED CONCRETE	NONE	PLASTIC LINER PANEL BY EXTRUTECH	PLASTIC LINER PANEL BY EXTRUTECH	PLASTIC LINER PANEL BY EXTRUTECH	PLASTIC LINER PANEL BY EXTRUTECH	PLASTIC LINER PANEL BY EXTRUTECH	12'-0"	--
102	EQUIPMENT ROOM	BROOMED CONCRETE	NONE	MASONRY/PAINTED	MASONRY/PAINTED	MASONRY/PAINTED	MASONRY/PAINTED	1/2" PLYWOOD/PAINTED	12'-0"	--
103	VEHICLE PREP	BROOMED CONCRETE	NONE	MASONRY/PAINTED	MASONRY/PAINTED	MASONRY/PAINTED	MASONRY/PAINTED	PLASTIC LINER PANELS BY EXTRUTECH	12'-0"	--
104	SALES OFFICE	ACID ETCHED AND STAINED CONCRETE	VINYL	MASONRY/PAINTED	MASONRY/PAINTED	MASONRY/PAINTED	MASONRY/PAINTED	SUSPENDED 2X2 ACOUSTIC TILE	10'-4"	--
105	HALL	ACID ETCHED AND STAINED CONCRETE	VINYL	GYP BOARD/PAINTED	MASONRY/PAINTED	MASONRY/PAINTED	MASONRY/PAINTED	SUSPENDED 2X2 ACOUSTIC TILE	10'-4"	--
106	MECH. RM.	BROOMED CONCRETE	NONE	MASONRY/PAINTED	MASONRY/PAINTED	MASONRY/PAINTED	MASONRY/PAINTED	SUSPENDED 2X2 ACOUSTIC TILE	10'-4"	--
107	KITCHEN	ACID ETCHED AND STAINED CONCRETE	VINYL	MASONRY/PAINTED	GYP BOARD/PAINTED	MASONRY/PAINTED	MASONRY/PAINTED	SUSPENDED 2X2 ACOUSTIC TILE	10'-4"	--
108	OFFICE	ACID ETCHED AND STAINED CONCRETE	VINYL	MASONRY/PAINTED	GYP BOARD/PAINTED	GYP BOARD/PAINTED	MASONRY/PAINTED	SUSPENDED 2X2 ACOUSTIC TILE	10'-4"	--
109	BATH	ACID ETCHED AND STAINED CONCRETE	VINYL	GYP BOARD/PAINTED	GYP BOARD/PAINTED	GYP BOARD/PAINTED	GYP BOARD/PAINTED	SUSPENDED 2X2 ACOUSTIC TILE	10'-4"	--
110	HC TOILET	ACID ETCHED AND STAINED CONCRETE	VINYL	GYP BOARD/PAINTED	GYP BOARD/PAINTED	GYP BOARD/PAINTED	GYP BOARD/PAINTED	SUSPENDED 2X2 ACOUSTIC TILE	10'-4"	--



TYPICAL HEIGHTS AND CLEARANCES FOR ACCESSIBILITY

NO SCALE

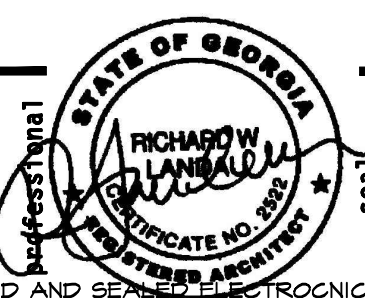
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18-19

number

DOOR, WINDOW, FINISH SCHEDULES

sheet title

sheet

A-5.1

date 01/10/18

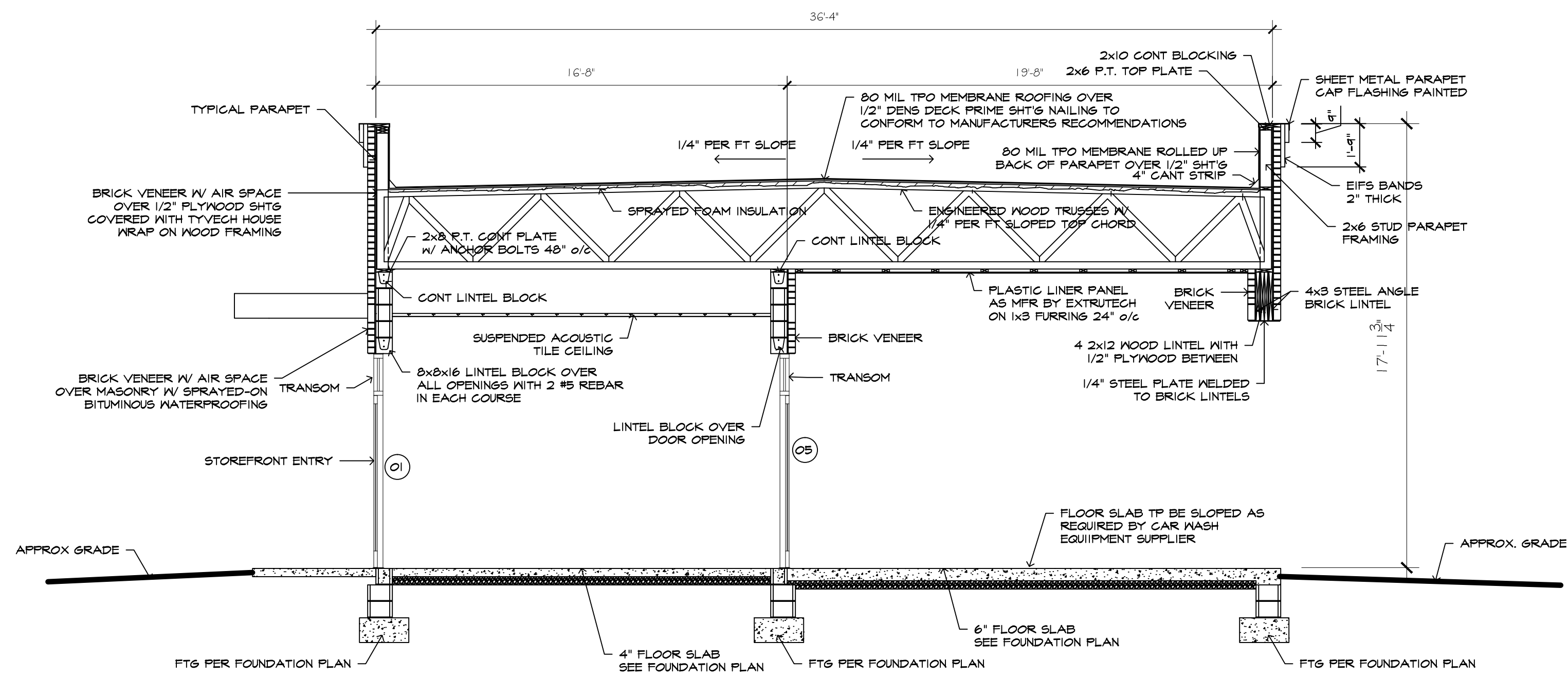
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checked R.L.

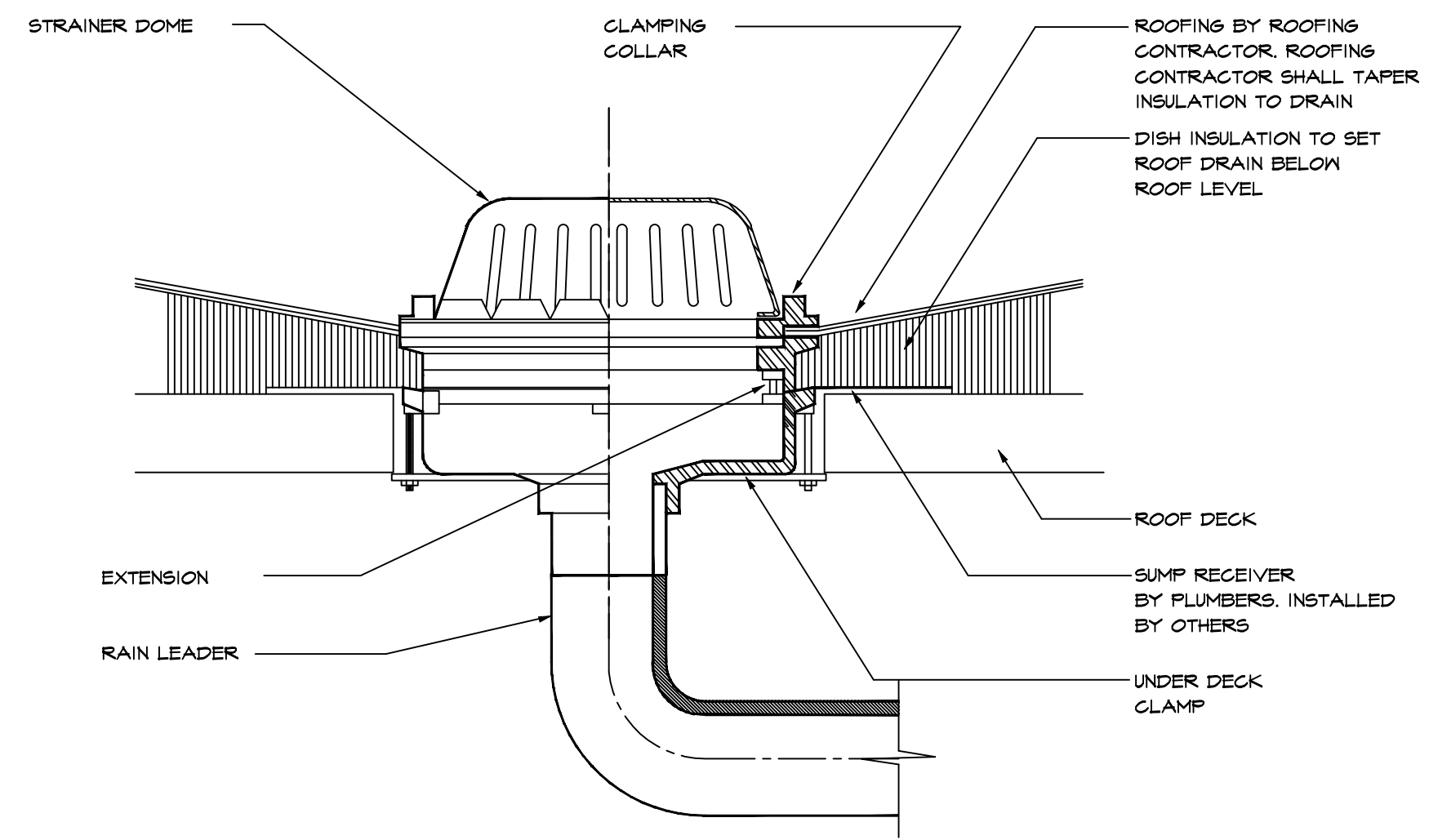
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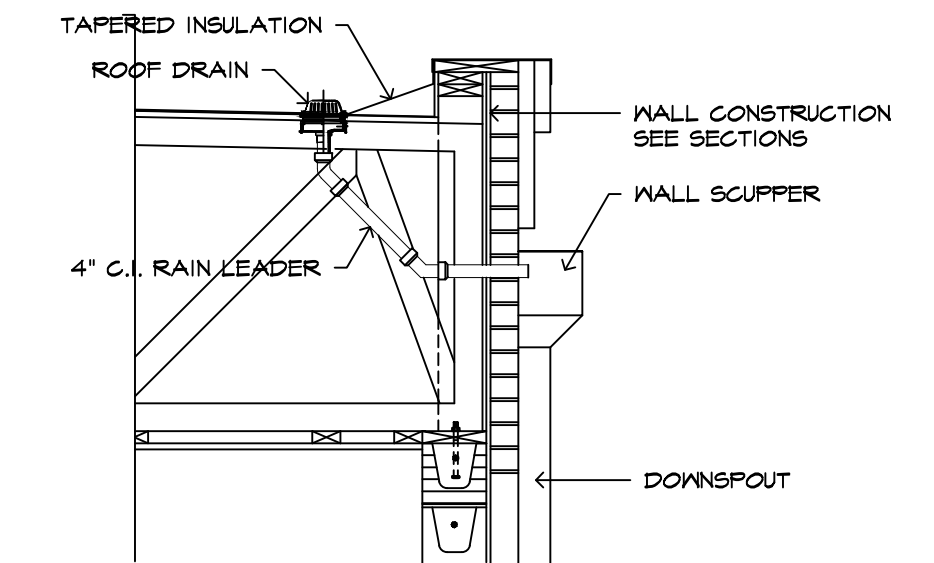
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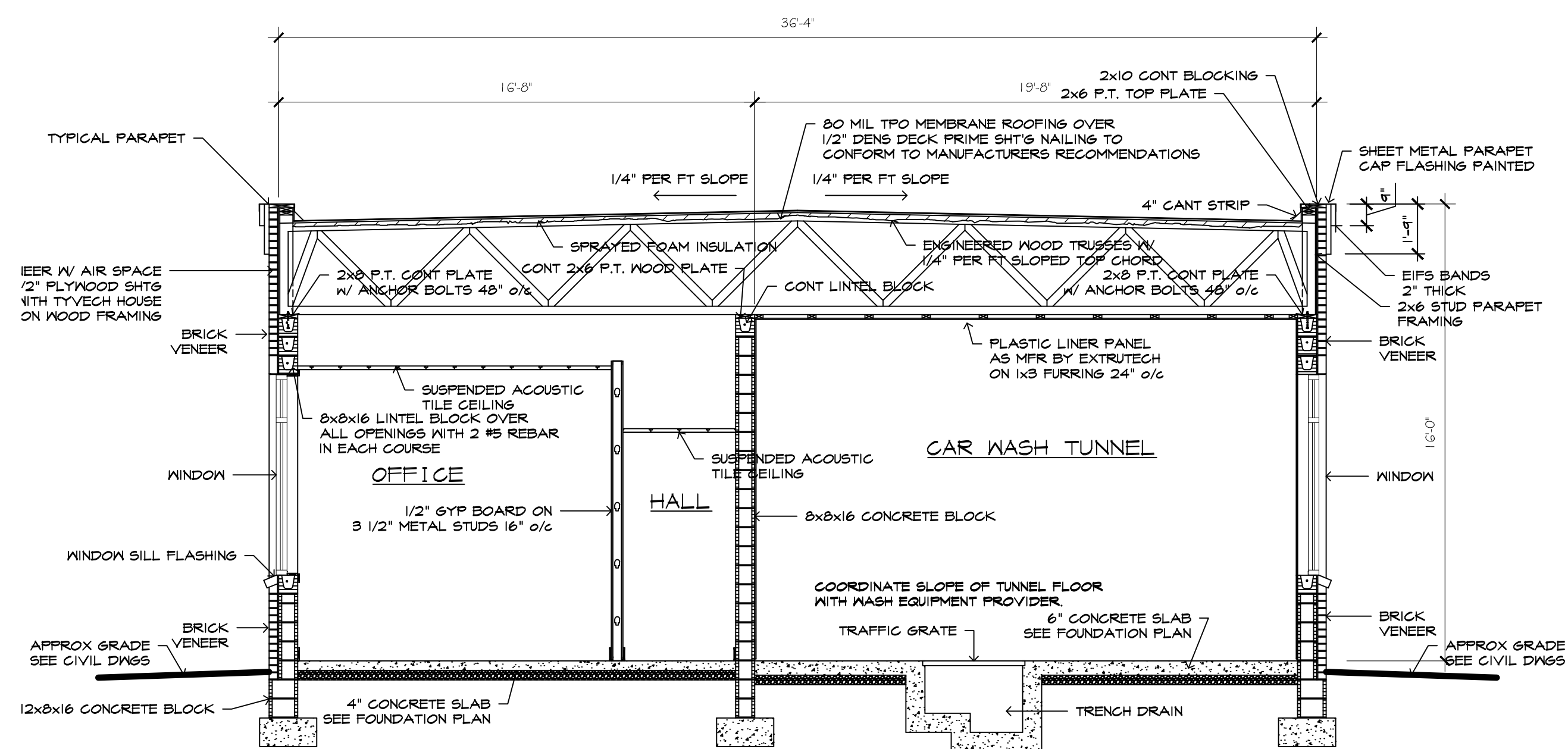
**3** SECTION 3  
1/4" = 1'-0"



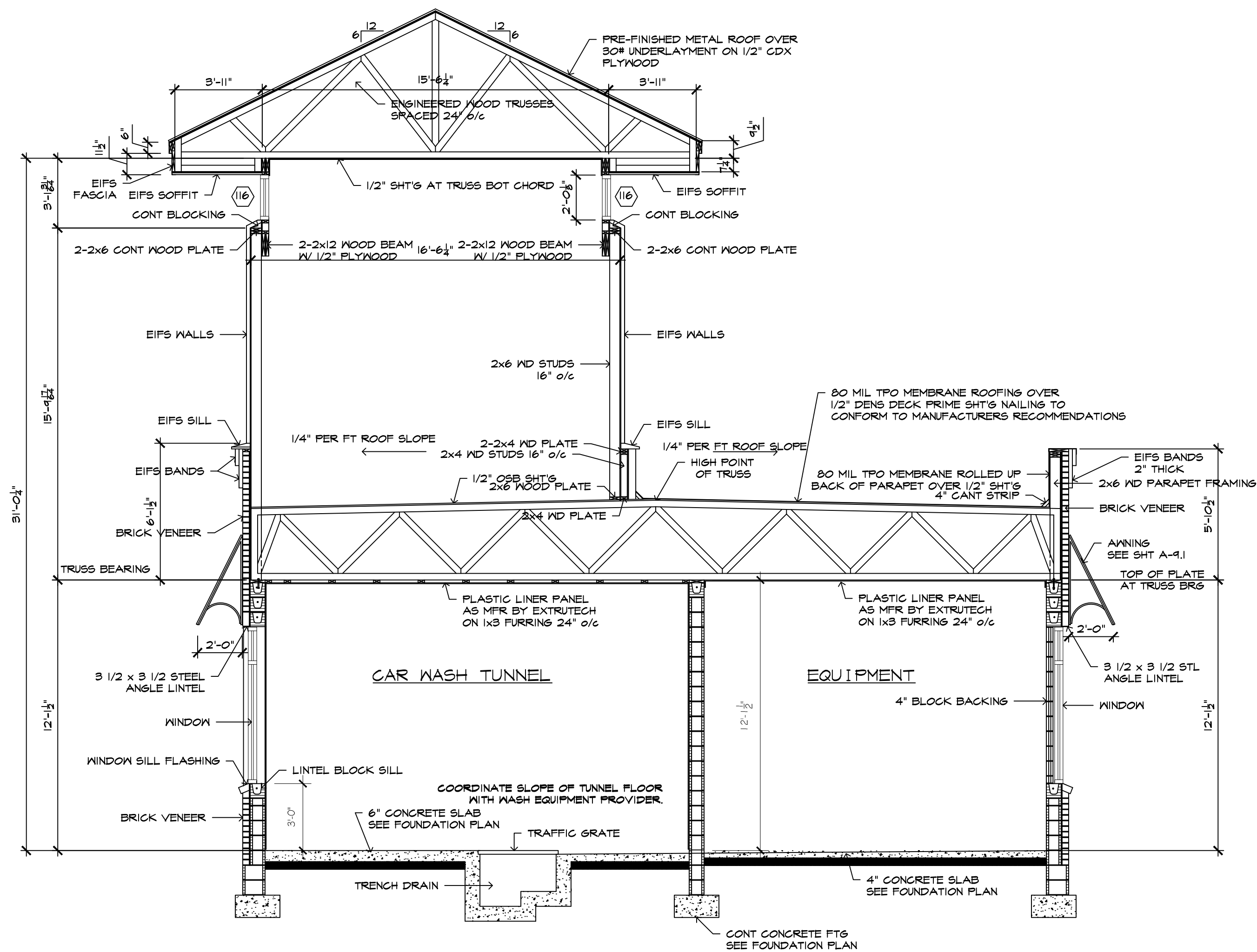
**4** ROOF DRAIN DETAIL  
NO SCALE



**5** ROOF DRAIN INSTALLATION  
1/2" = 1'-0"



**1** SECTION 1  
1/4" = 1'-0"



**2** SECTION 2  
1/4" = 1'-0"

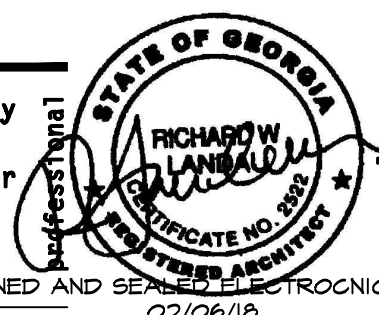
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18-19 number

drawn J.W.H.

SECTIONS sheet title

checked R.L.

approved

sheet

A-7.1

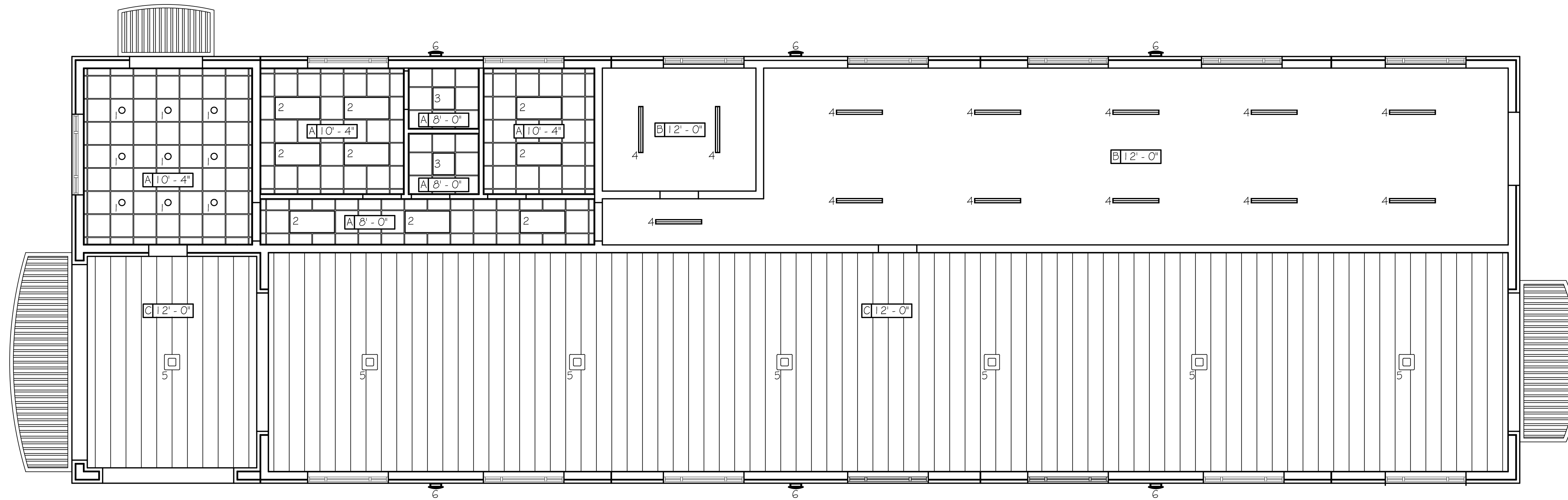
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revisions

Ceiling Schedule	
Type	Description
A	2' x 2' Suspended Acoustical Ceiling
B	Painted 1/2" A-C Plywood
C	Plastic Liner Panels by Extrutech

Light Fixture Schedule	
Type	Description
1	6" LED recessed can light
2	2'x4' LED lay-in w/ acrylic lens
3	2'x2' LED lay-in w/ acrylic lens
4	4' 2-Lamp fluorescent w/ wire cage wrap around
5	LSI - Legacy CRU LED Canopy Light (20 3/4" x 20 3/4")
6	Invue Entri Round Reveal ENV-E02-LED-1 20-BL3-BZ-ULG-LCF

Note: Two LED flood lights shall be installed inside the tower.



REFLECTED CEILING PLAN

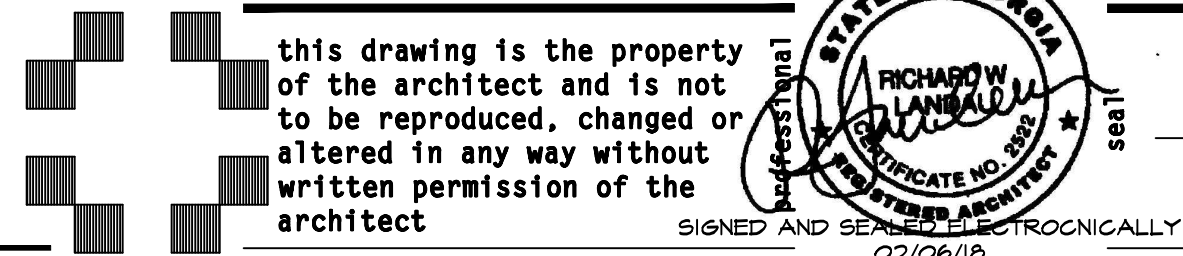
3/16" = 1'-0"

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AND CONSTRUCTION  
FEBRUARY 23, 2018

**richard landau**

ARCHITECTS & PLANNERS  
1-800-576-1783

2266 Gainesville Highway Blairsville, Georgia 30512  
(706) 745-5824 mountainarchitect @ msn.com fax (775) 890-8644



XTREME CLEAN AUTO SPA project name

616 WHITE SULPHUR ROAD GAINESVILLE, GA 30501

18-19 project number

drawn J.W.H.

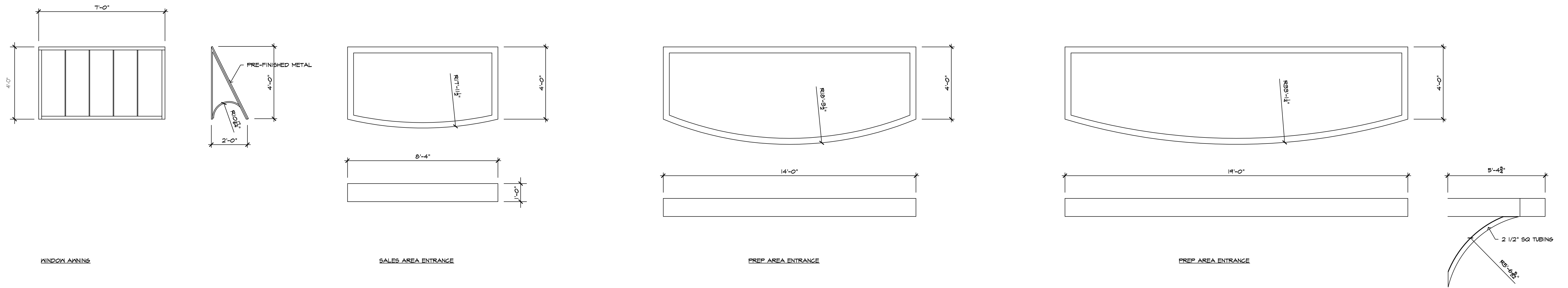
REFLECTED CEILING PLAN sheet title

checked R.L.

approved

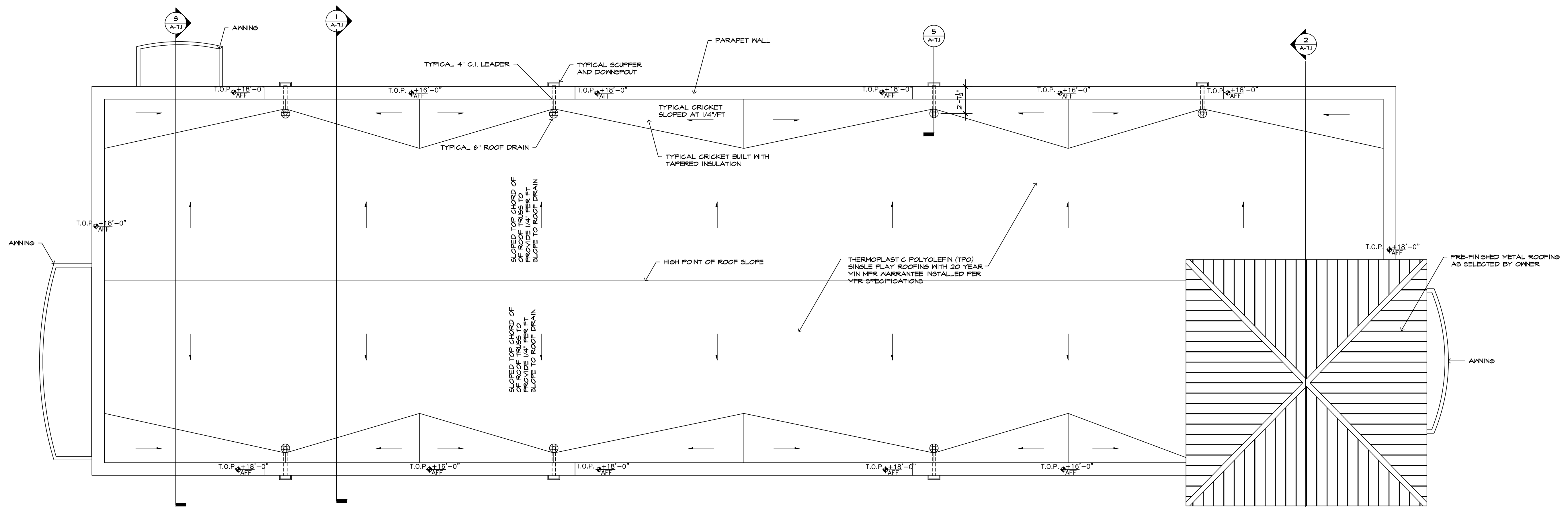
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9 of  
date 01/10/18  
revisions





**AWNINGS DETAILS**

3/8" = 1'-0"



**ROOF PLAN**

3/16" = 1'-0"

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**richard landau**

ARCHITECTS & PLANNERS  
1-800-576-1783

2266 Gainesville Highway Blairsville, Georgia 30512  
(706) 745-5824 mountainarchitect@msn.com fax (775) 890-8644

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**RICHARD W. LANDAU**  
REGISTERED PROFESSIONAL ARCHITECT  
STATE OF GEORGIA  
NO. 10000  
SIGNED AND SEALED ELECTRONICALLY  
02/06/18

XTREME CLEAN AUTO SPA

project name

616 WHITE SULPHUR ROAD GAINESVILLE, GA 30501

18-19

number

drawn J.W.H.

ROOF PLAN AND AWNING DETAILS

sheet title

checked R.L.

approved

sheet






**A-9.1**

of

date

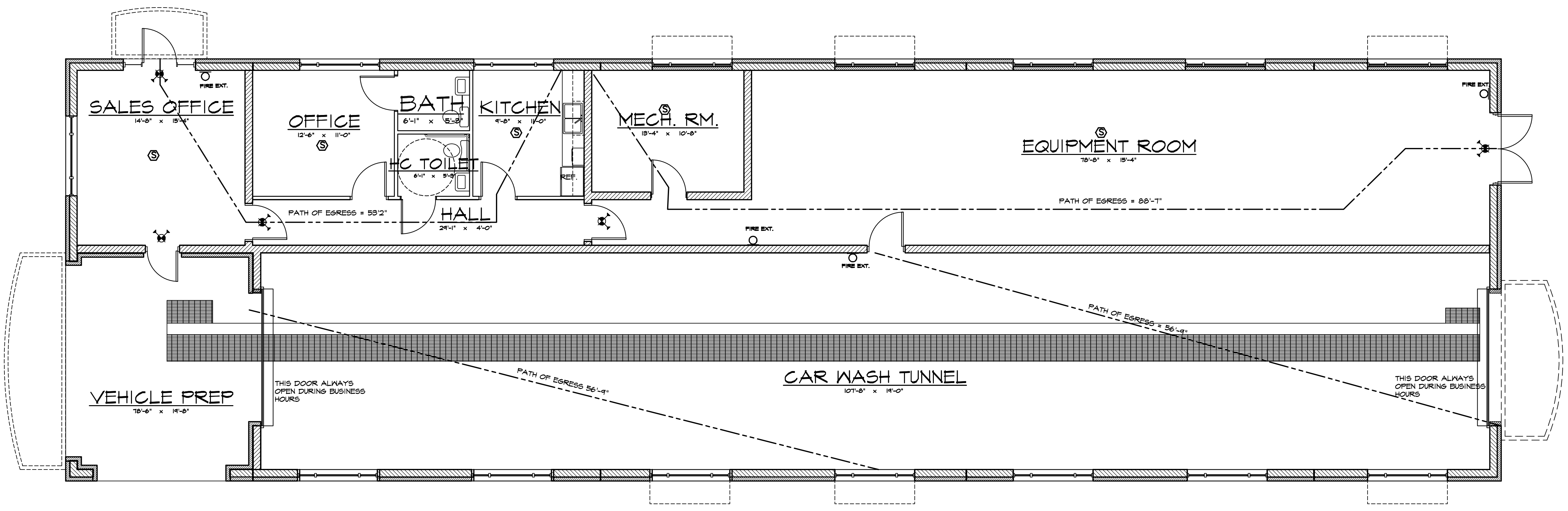
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revisions

**LEGEND** NOTE: NOT ALL SYMBOLS ARE USED ON ALL SHEETS.

-  - EMERGENCY EXIT LIGHT
-  - EMERGENCY EGRESS LIGHT
-  - COMBO EMERGENCY & EXIT LIGHT
-  - FIRE EXTINGUISHER
-  - SMOKE DETECTOR

ROOM NAME	OCCUPANCY CLASS	FLOOR AREA	SF/PERSON	OCCUPANT LOAD
CAR WASH TUNNEL	B-ACCESSORY	2044.876	300	6.8
EQUIPMENT ROOM	B-ACCESSORY	1046.917	300	3.5
SALES OFFICE	B	224.884	100	2.2
HALL	B	116.167	100	1.2
MECH. RM.	B-ACCESSORY	142.222	300	.5
KITCHEN	B	105.931	100	1.1
OFFICE	B	136.979	100	1.4
BATH	B	32.411	100	.3
HC TOILET	B	32.411	100	.3
<b>TOTALS</b>				<b>17.3</b>

TOTAL EGRESS WIDTH REQUIRED @ 2' PER OCCUPANT (W/O SPRINKLER SYSTEM): 17.3 \* 2 = 34.6'  
 TOTAL EGRESS WIDTH PROVIDED = 144'  
 TRAVEL DISTANCE  
 MAXIMUM TRAVEL DISTANCE ALLOWED: 100'-0"  
 MAXIMUM TRAVEL DISTANCE TO EXIT: 88'-7"



**LIFE SAFETY PLAN**  
3/16" = 1'-0"

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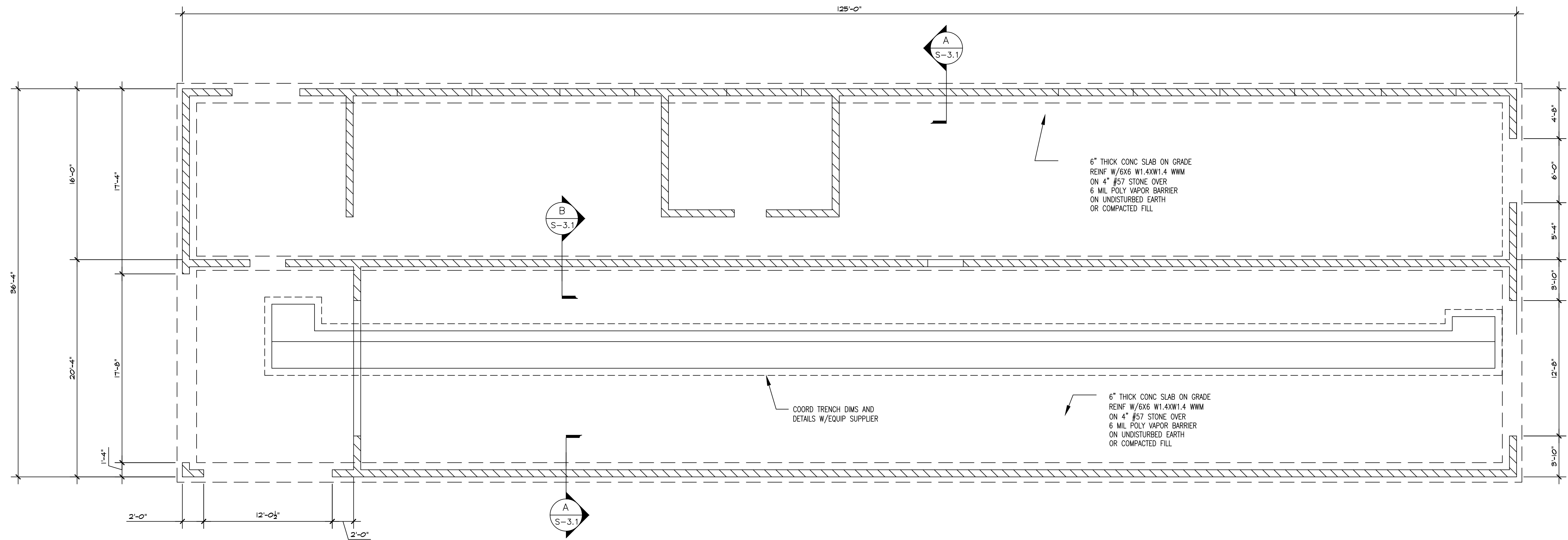
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RICHARD W. LANDAU  
REGISTERED ARCHITECT  
NO. 2821  
SIGNED AND SEALED ELECTRONICALLY  
02/06/18

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616 WHITE SULPHUR ROAD GAINESVILLE, GA 30501

project  
**18-19**

number  
**LIFE SAFETY PLAN**  
sheet title  
drawn J.W.H. checked R.L. approved

sheet  
**A-11.1**  
date 01/10/18  
11 of 11  
revisions



FOUNDATION PLAN

SCALE 3/16" = 1'-0"

STRUCTURAL NOTES

1. GENERAL

- A. ALL WORK SHALL COMPLY WITH THE 2012 INTERNATIONAL BUILDING CODE (IBC) WITH STATE OF GEORGIA AMENDMENTS.
- B. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER PRIOR TO FABRICATION OR INSTALLATION.
- C. THE STRUCTURE DEPICTED ON THESE DRAWINGS IS DESIGNED TO WITHSTAND IMPOSED LOADING AS COMPLETELY CONSTRUCTED. THE CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT AND BRACING AS REQUIRED DURING CONSTRUCTION.

2. DESIGN LOADS

- A. ROOF LIVE LOAD = 20 PSF
- B. FLOOR LIVE LOAD = 50 PSF TUNNEL FLOOR AND OFFICE FLOOR  
= 125 PSF STORAGE MEZZANINE
- C. WIND VELOCITY = 90 PSF

3. SOILS AND FOUNDATIONS

- A. FOUNDATION DESIGN IS BASED ON AN ALLOWABLE SOIL BEARING CAPACITY OF 2000 PSF FOR SANDY CLAY SOIL. B. FOOTINGS SHALL BEAR MINIMUM 12" BELOW ADJACENT GRADE.

4. CONCRETE

- A. CONCRETE WORK SHALL CONFORM TO ACI 318.
- B. CONCRETE SHALL BE NORMAL WEIGHT CONCRETE CONFORMING TO ASTM C33 AND SHALL DEVELOP A 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI.
- C. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60.
- D. WELDED WIRE MESH SHALL CONFORM TO ASTM A185.
- E. EDGE OF FOUNDATION SLAB ON GRADE TO BE FORMED.
- F. PROVIDE MINIMUM 3" CONCRETE COVER FOR STEEL REINFORCING WHERE CONCRETE IS PLACED AGAINST EARTH. PROVIDE MINIMUM 1 1/2" COVER WHERE CONCRETE IS PLACED AGAINST FORMS. PROVIDE MINIMUM 3/4" COVER FROM TOP OF FOUNDATION SLAB.

5. STEEL

- A. STRUCTURAL STEEL CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF AISC, ASD.
- B. STRUCTURAL STEEL TUBING SHALL BE ASTM A500 GRADE B, FY = 46 KSI.
- C. STRUCTURAL STEEL PLATE AND FRAMING MATERIAL SHALL CONFORM TO ASTM A36.
- D. STEEL ROOF DECK SHALL CONFORM TO THE STEEL DECK INSTITUTE SPECIFICATIONS FOR STEEL ROOF DECK.
- E. STRUCTURAL STEEL CONNECTIONS SHALL BE WITH ASTM A325 BOLTED UNLESS NOTED OTHERWISE.
- F. ANCHOR BOLTS SHALL BE ASTM A307.
- G. ALL WELDING SHALL CONFORM TO AWS D1.1.
- H. STEEL JOISTS SHALL BE PROVIDED IN ACCORDANCE WITH THE STEEL JOIST INSTITUTE STANDARD SPECIFICATION FOR OPEN WEB STEEL JOISTS, K-SERIED.
- I. SHOP DRAWINGS OF ALL STRUCTURAL STEEL FRAMING, JOISTS AND METAL ROOF DECK SHALL BE PROVIDED FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
- J. COLD FORMED LIGHT GAGE STEEL FRAMING SHALL CONFORM TO ASTM A446 EXCEPT C-RUNNERS MAY BE ASTM 446, 33 KSI.

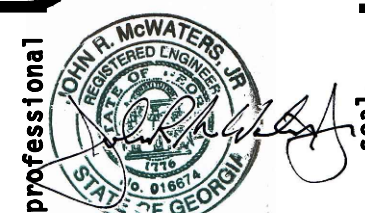
**richard landau**

ARCHITECTS & PLANNERS  
1-800-576-1783

2266 Gainesville Highway Blairsville, Georgia 30512  
(706) 745-5824 mountainarchitect@msn.com fax (775) 890-8644

JOHN MCWATERS  
STRUCTURAL ENGINEER  
(706) 362-9229  
202 GOLD DUST TRACE  
DAHLONEGA, GA 30533

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XTREME CLEAN AUTO SPA

project name

616 WHITE SULPHUR ROAD GAINESVILLE, GA 30501

18-19

number

drawn J.W.H.

FOUNDATION PLAN

sheet title

checked R.L.

approved

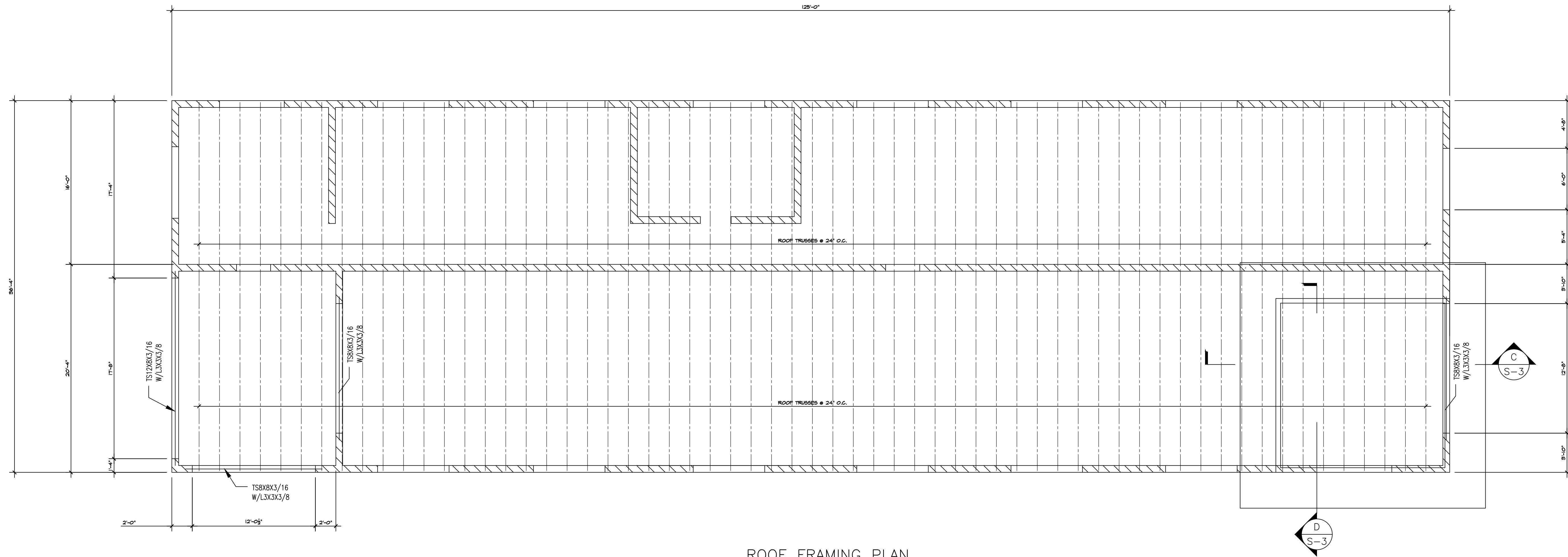
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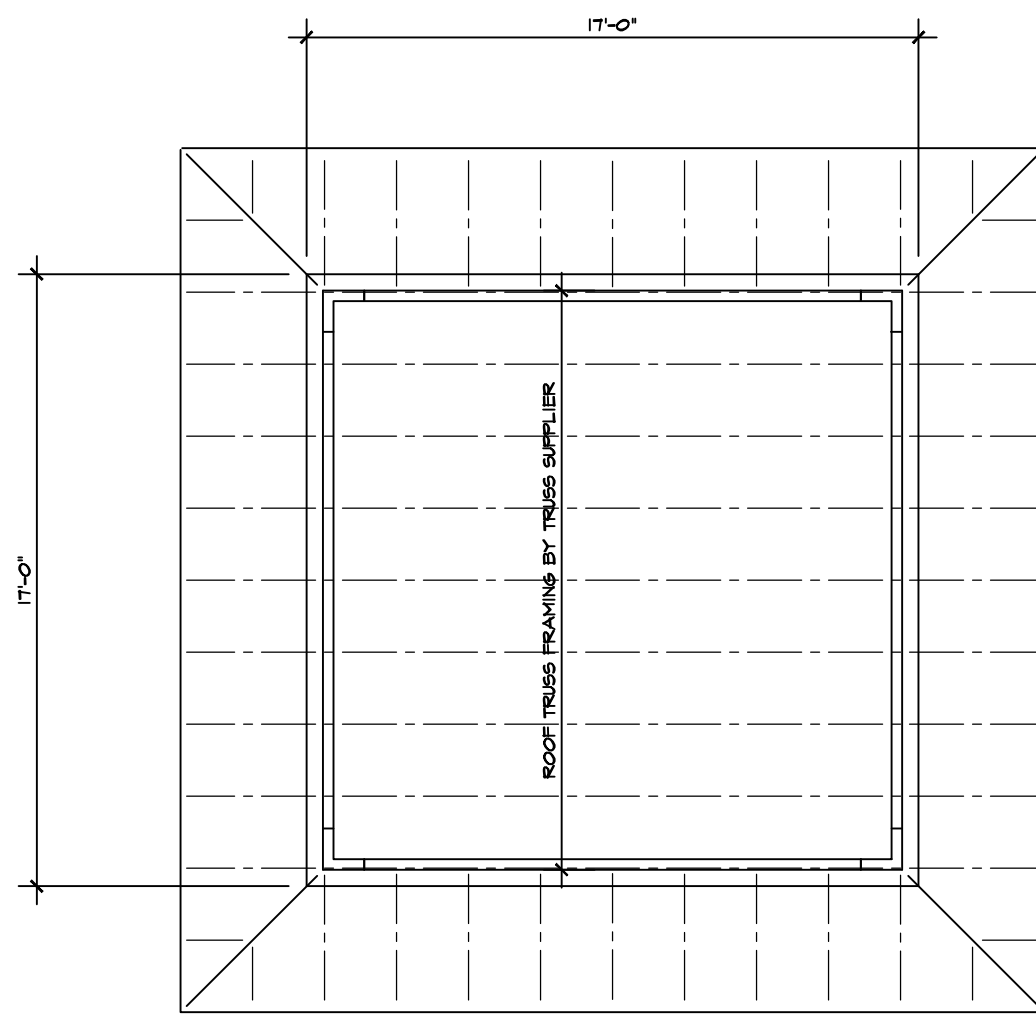
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revisions

PRELIMINARY DRAWINGS  
DO NOT USE FOR CONSTRUCTION



ROOF FRAMING PLAN  
SCALE 3/16" = 1'-0"



TOWER ROOF FRAMING PLAN  
SCALE 3/16" = 1'-0"

JOHN MCWATERS  
STRUCTURAL ENGINEER  
(706) 362-9229  
202 GOLD DUST TRACE  
DAHLONEGA, GA 30533

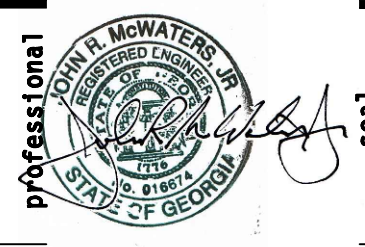
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ARCHITECTS & PLANNERS  
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(706) 745-5824 mountainarchitect @ msn.com fax (775) 890-8644

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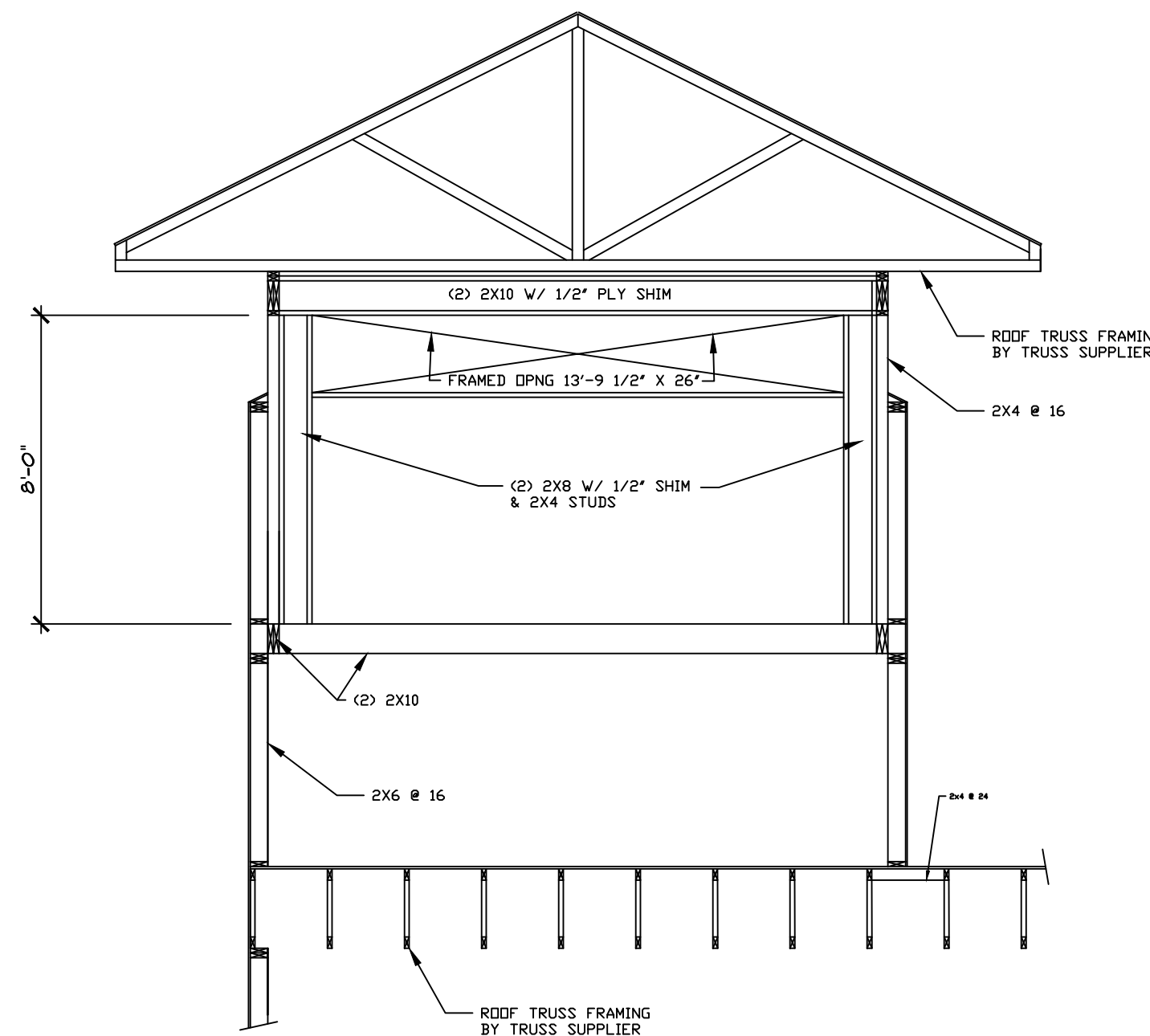
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**18-19**

drawn  
J.W.H.

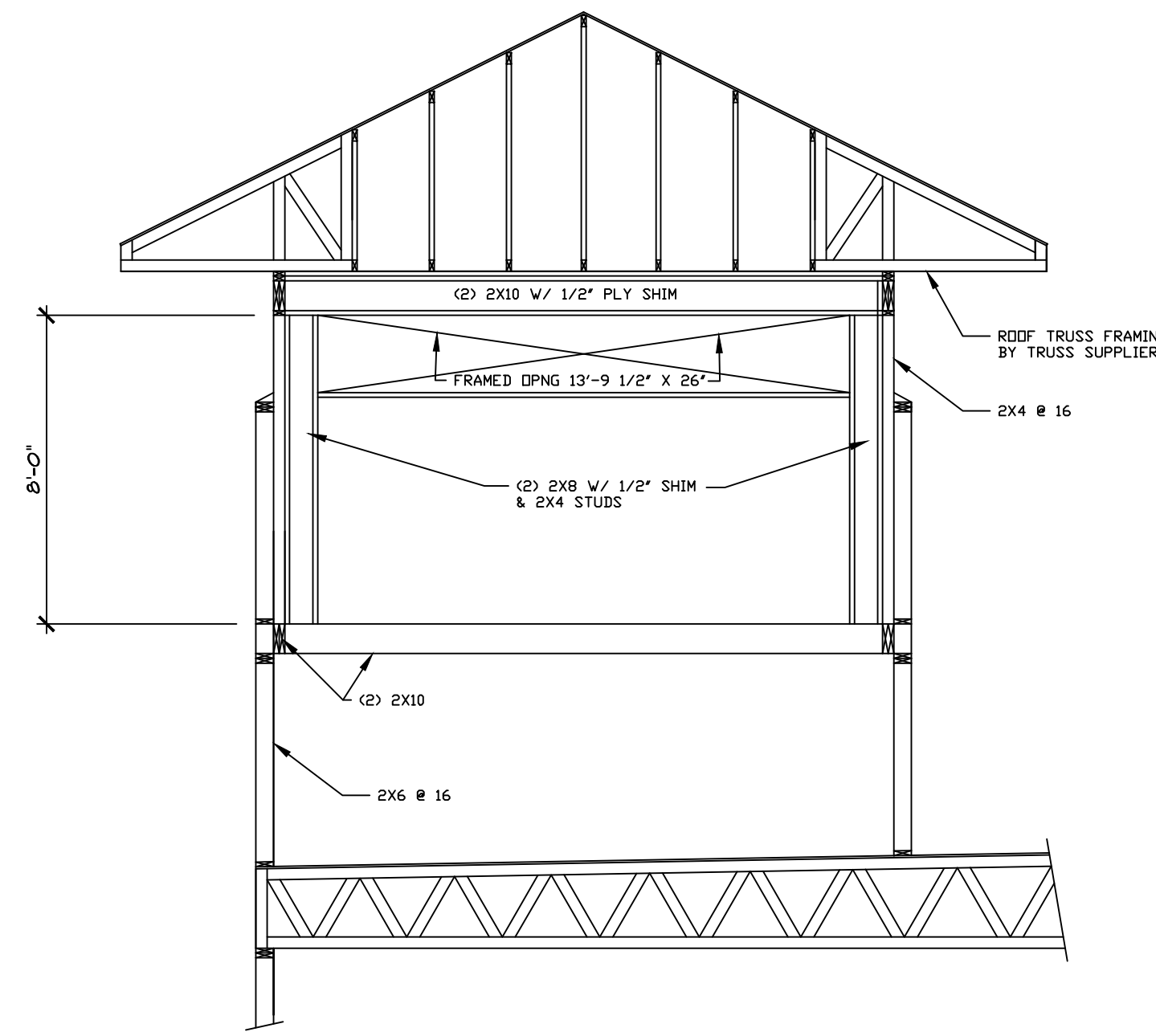
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**ROOF FRAMING PLANS**

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approved

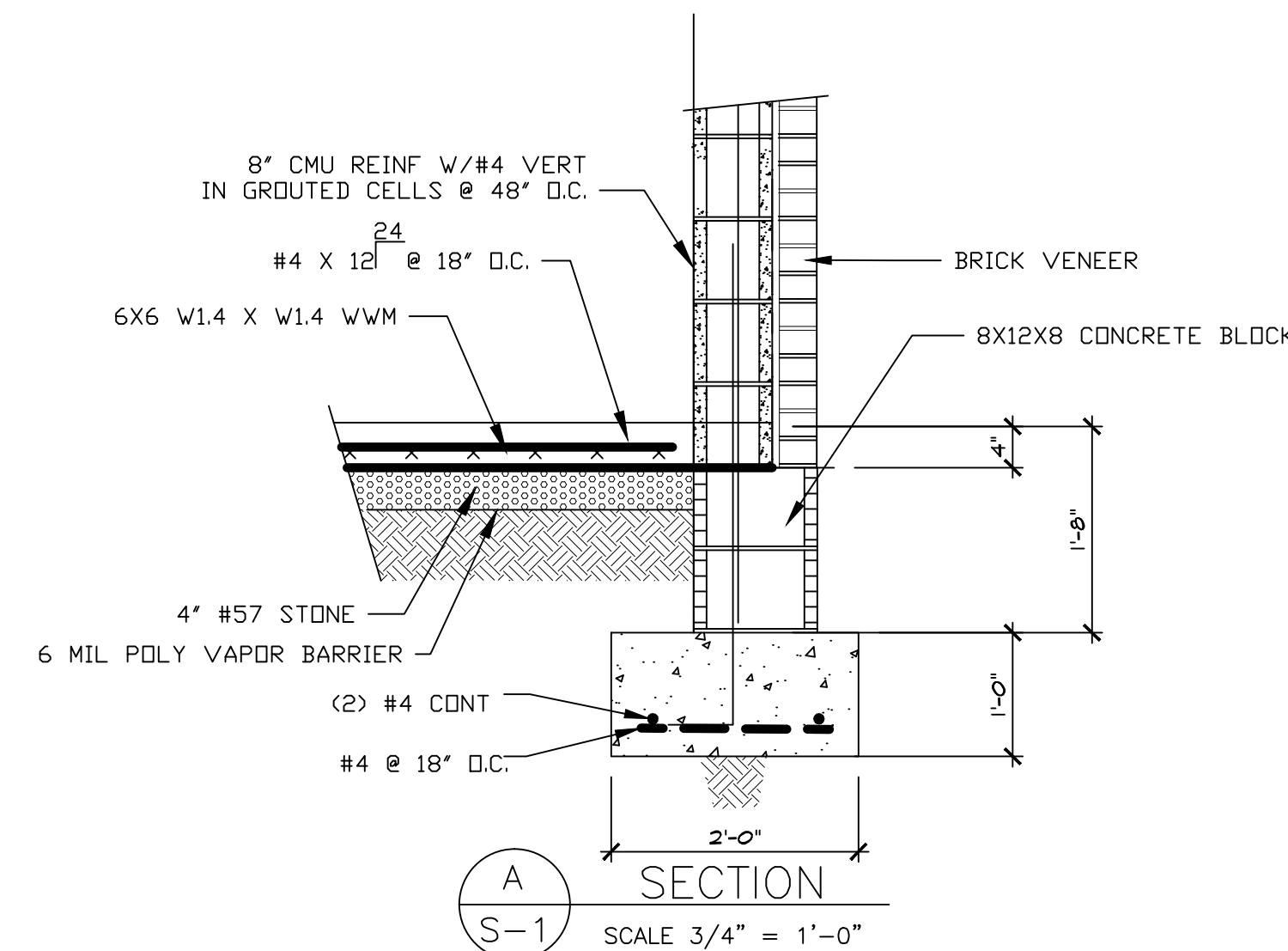
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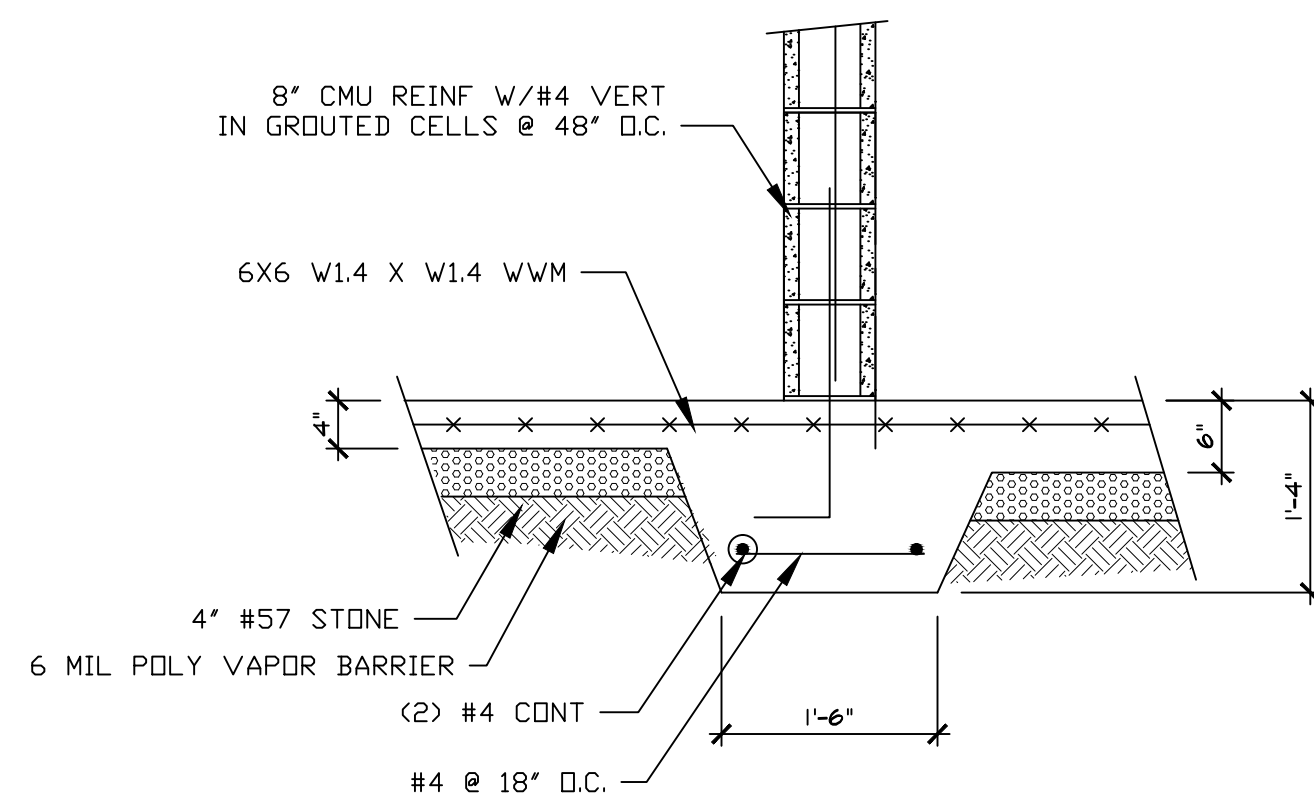
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SECTION  
SCALE 3/8" = 1'-0"



**D**  
SECTION  
SCALE 3/8" = 1'-0"



**A**  
SECTION  
SCALE 3/4" = 1'-0"



**B**  
SECTION  
SCALE 3/4" = 1'-0"

JOHN MCWATERS  
STRUCTURAL ENGINEER  
(706) 362-9229  
202 GOLD DUST TRACE  
DAHLONEGA, GA 30533

**richard landau**

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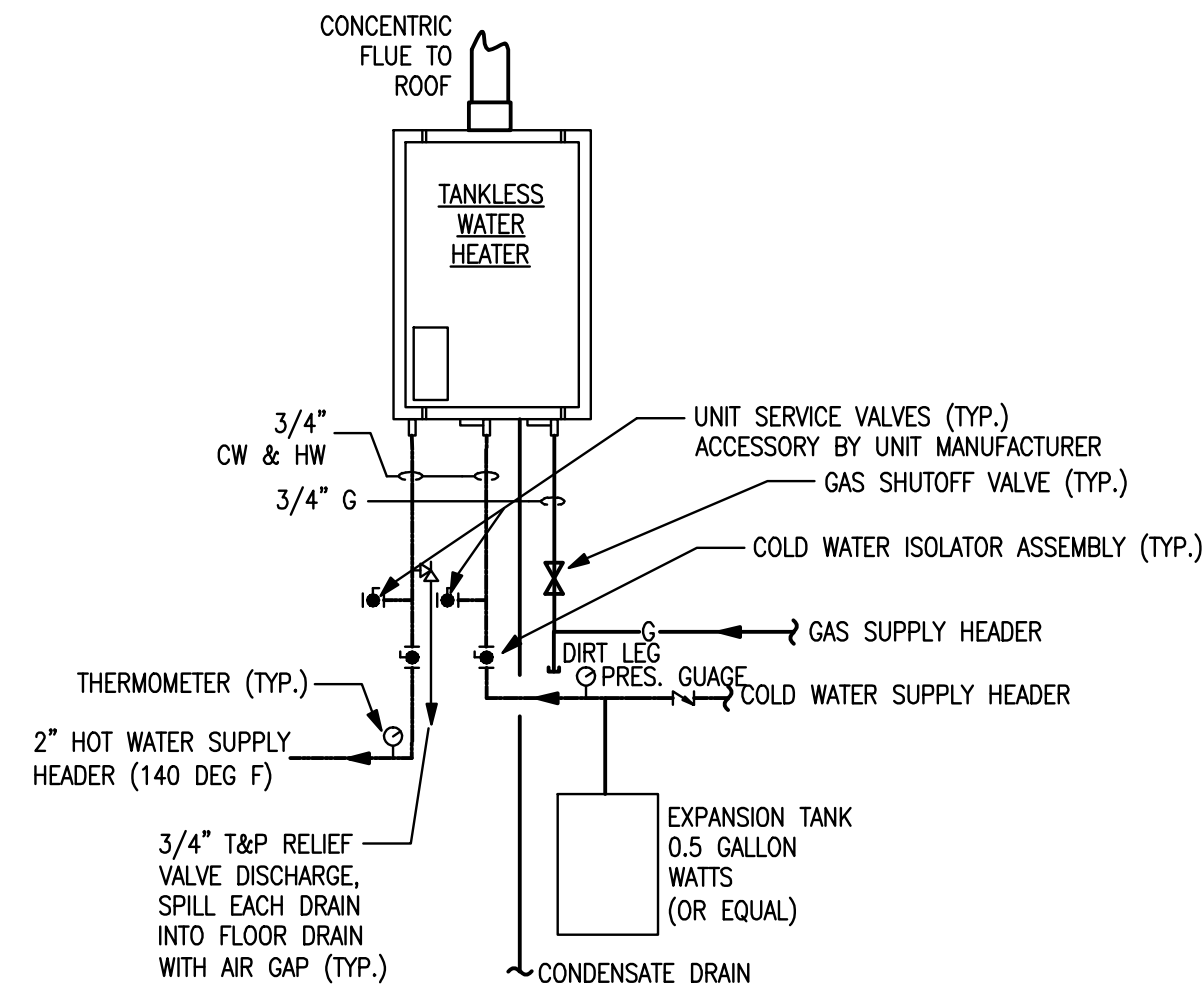
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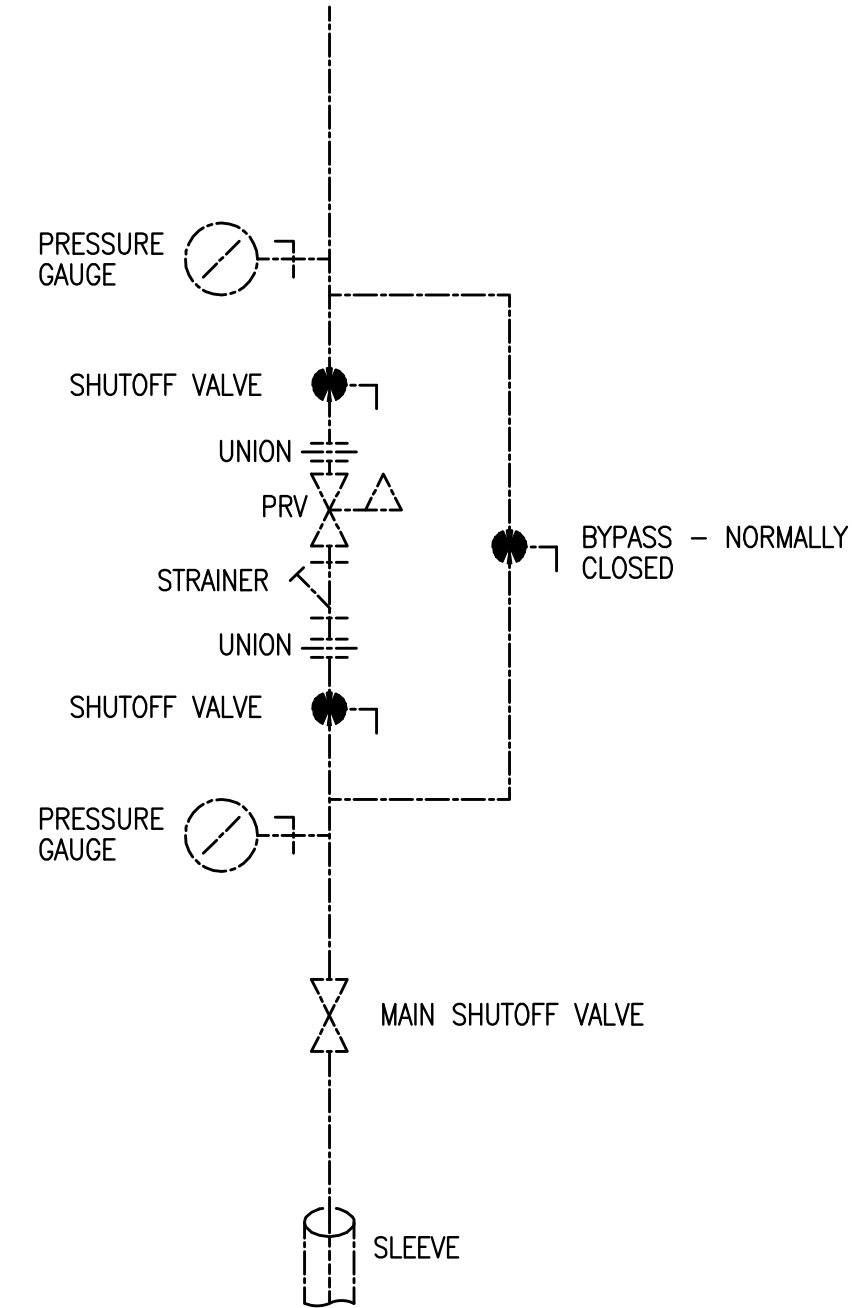
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sheet title \_\_\_\_\_ sheet \_\_\_\_\_  
number \_\_\_\_\_  
drawn J.W.H. checked R.L. approved \_\_\_\_\_ of \_\_\_\_\_  
date \_\_\_\_\_ revisions \_\_\_\_\_

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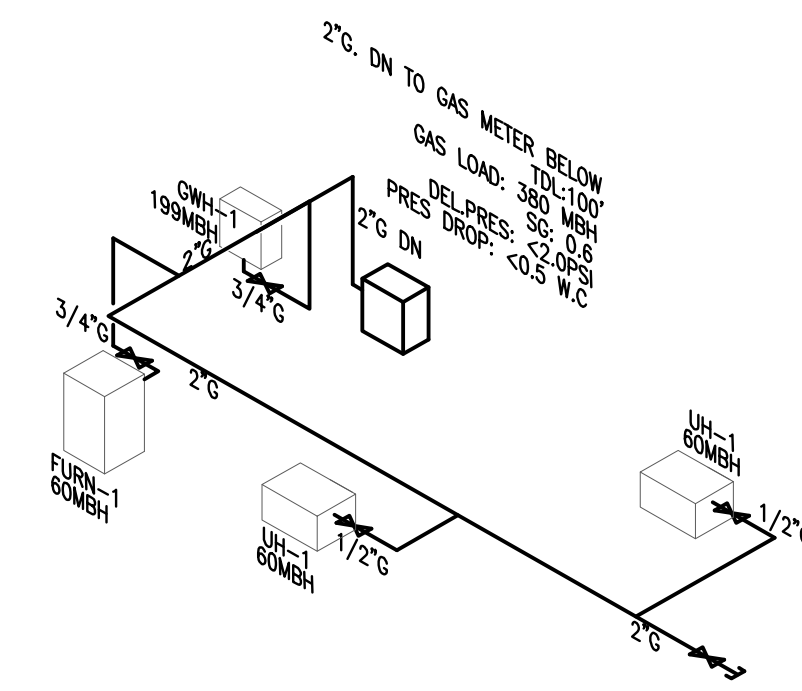


**2 WATER HEATER CONNECTION DETAIL**  
SCALE: NO SCALE

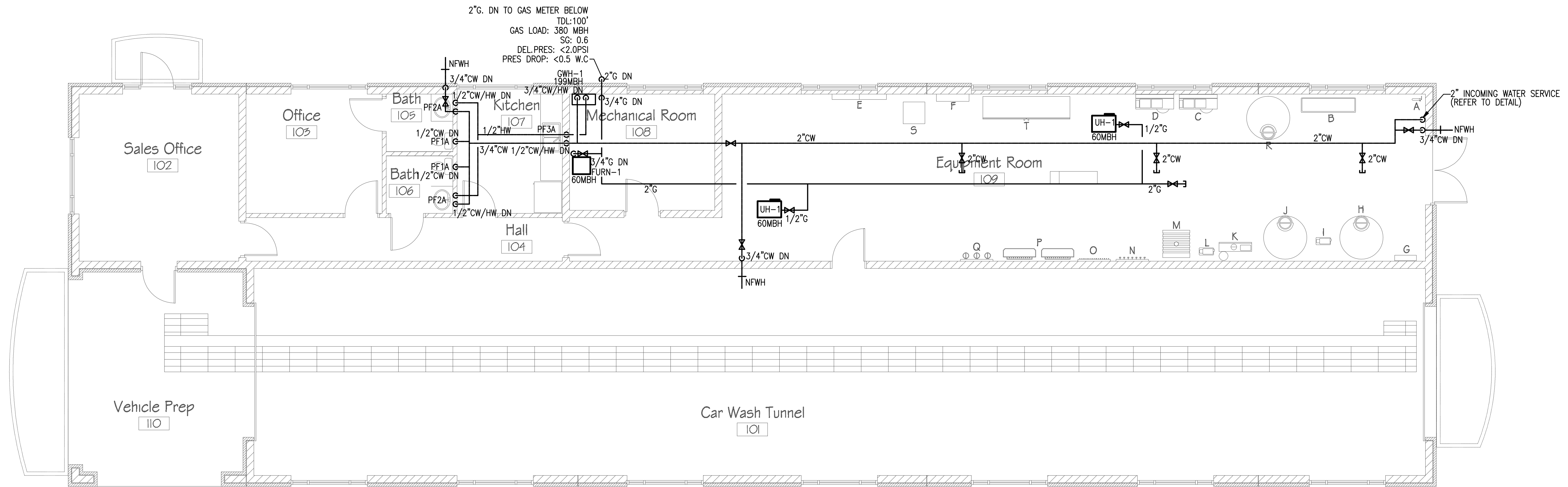


**3 WATER SERVICE ENTRANCE**  
SCALE: NO SCALE

NOTE:  
PROVIDE RPZ TYPE BACKFLOW IN ADDITION TO THE ABOVE WHERE REQUIRED. COORDINATE WITH GENERAL CONTRACTOR AND CIVIL DRAWINGS.

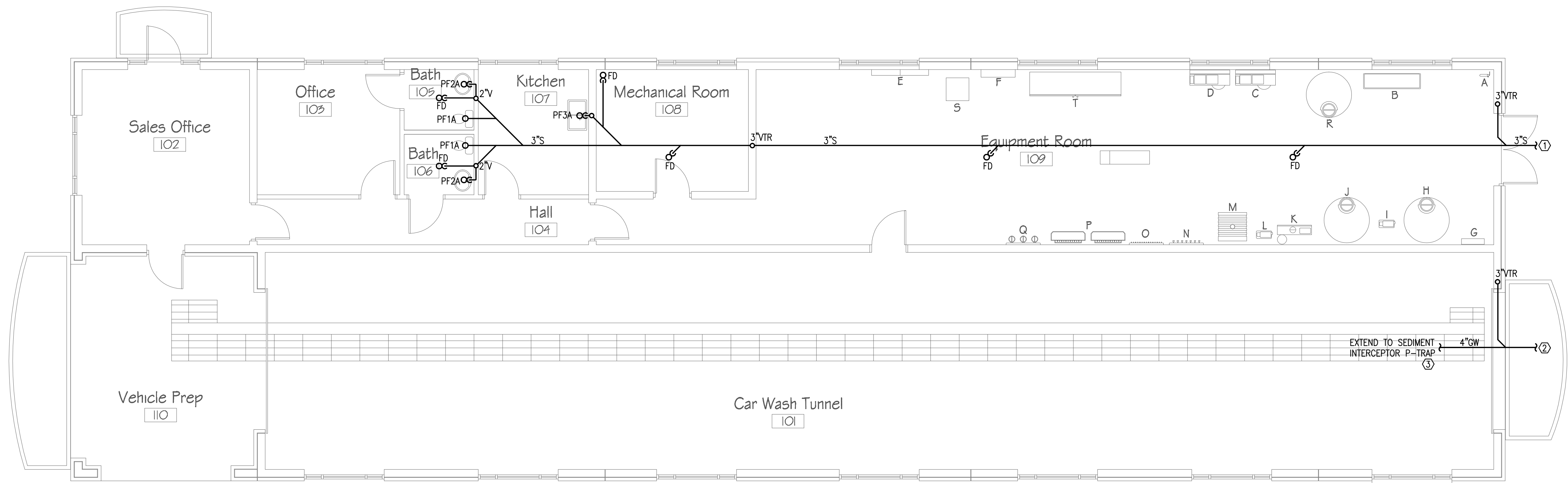


**4 GAS RISER**  
SCALE: NO SCALE



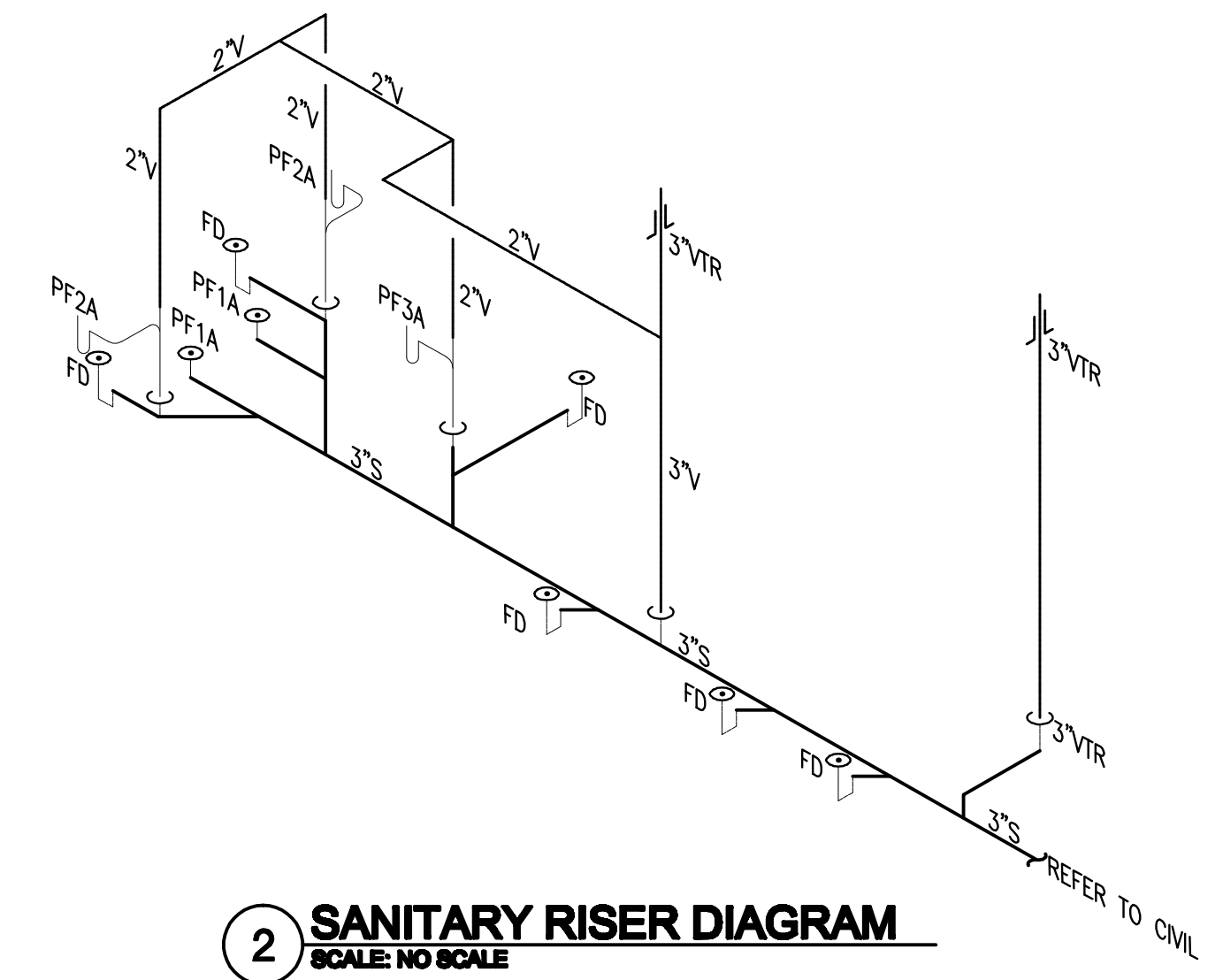
**1 PLUMBING WATER PLAN**  
SCALE: 3/16" = 1'-0"

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- KEYNOTES: ⓧ
1. EXTEND PLUMBING LINE TO SITE SEWER. COORDINATE WITH CIVIL PLAN FOR CONTINUATION.
  2. EXTEND PLUMBING LINE TO SITE GREASE WASTE INTERCEPTOR. COORDINATE WITH CIVIL PLAN FOR CONTINUATION.
  3. CONNECT LINE TO SAND/SEDIMENT INTERCEPTOR WITHIN TRENCH DRAIN. REFER TO ARCHITECTURAL PLANS FOR TRENCH DRAIN DETAILS.

**1 PLUMBING SANITARY PLAN**  
SCALE: 3/16" = 1'-0"

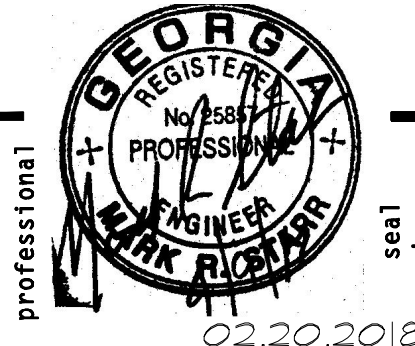


**2 SANITARY RISER DIAGRAM**  
SCALE: NO SCALE

PLOT DATE: Feb 23, 2018 DIRECTOR: F:\2018-009 Xtreme Car Wash Gainesville GA\PLMB\ FILE NAME: P1.1.dwg

**richard landau**  
ARCHITECTS & PLANNERS  
1-800-576-1783  
2266 Gainesville Highway • Blairsville, Georgia 30512  
(706) 745-5824 mountainarchitect@msn.com fax (775) 890-8644

**TRINITY ENGINEERING GROUP**  
1001 TRUMPSON BRIDGE RD  
GAINESVILLE, GA 30601  
TEL: (770) 535-1044  
FAX: (770) 535-0837  
TEGPC: 2018009



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**XTREME CLEAN AUTO SPA**  
WHITE SULFUR ROAD, GAINESVILLE GA

project name  
project

18-19

number  
drawn KAH

**PLUMBING SANITARY PLAN**  
checked MRS

sheet title  
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### PLUMBING GENERAL NOTES

- ALL PIPING SHALL BE ROUTED ABOVE THE FINISHED CEILING SPACE UNLESS OTHERWISE INDICATED. PIPING BELOW THE CEILING LEVEL SHALL BE CONCEALED IN WALLS AND BEHIND FIXED FURNISHINGS UNLESS OTHERWISE INDICATED. ACCESS PANELS SHALL BE PROVIDED WHERE CONCEALED CONTROL DEVICES, VALVES, ETC. ARE CONCEALED WITHIN WALLS. WHERE ACCESS FOR ADJUSTMENT AND MAINTENANCE IS POSSIBLE THROUGH LAY-IN SUSPENDED CEILING, ACCESS PANELS ARE NOT REQUIRED.
- PIPING EXPOSED TO VIEW SHALL BE ROUTED AS HIGH AS POSSIBLE AND TIGHT TO THE UNDERSIDE OF THE STRUCTURAL STEEL.
- EXPOSED PIPING IN FINISHED AREAS SHALL BE CHROME PLATED WITH CHROME PLATED ESCUTCHEON AT PIPE ENTRY TO FINISHED AREA.
- WHEREVER FOUNDATION WALLS, OUTSIDE WALLS, ROOFS, ETC. ARE PENETRATED FOR INSTALLATION OF SYSTEMS, THEY SHALL BE PATCHED TO MATCH EXISTING CONSTRUCTION AND SEALED WEATHER TIGHT. WORK SHALL BE PERFORMED BY CRAFTSMEN SKILLED IN THEIR RESPECTIVE TRADE.
- ALL PIPING SHALL BE RUN PARALLEL TO BUILDING LINES AND SUPPORTED AND ANCHORED AS REQUIRED TO FACILITATE EXPANSION AND CONTRACTION. ALL PIPING SHALL BE CONCEALED EXCEPT IN UNFINISHED SPACES. INSTALL AS REQUIRED TO MEET ALL CONSTRUCTION CONDITIONS AND TO ALLOW FOR INSTALLATION OF OTHER WORK INCLUDING DUCTS AND ELECTRICAL CONDUIT. AT ALL CONNECTIONS BETWEEN FERROUS PIPING AND NONFERROUS PIPING, PROVIDE AN ISOLATING DIELECTRIC UNION.
- ALL OPENINGS IN DRAINAGE AND/OR VENT SYSTEMS AS A RESULT OF INSTALLATION ROUGH-IN SHALL BE PROTECTED WITH A TEST PLUG THAT IS SECURELY LOCKED IN PLACE UNTIL FINAL FINISHED CONNECTIONS ARE INSTALLED.
- PROVIDE ALL FITTINGS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY TO FACILITATE THE PLUMBING SYSTEM'S FUNCTIONING AS INDICATED BY THE DESIGN AND THE EQUIPMENT INDICATED.
- PROVIDE CLEANOUTS AT THE END OF EACH HORIZONTAL RUN, AND AT THE BASE OF ALL VERTICAL WASTE AND DRAIN PIPES. CLEANOUTS SHALL BE OF THE SAME SIZE AS THE PIPES THEY SERVE.
- SANITARY DRAINAGE PIPING ABOVE FLOOR SHALL BE SCHEDULE 40 PVC, FITTINGS AND CONNECTIONS. SANITARY DRAINAGE PIPING BELOW GRADE SHALL BE SCHEDULE 40 PVC. ALL DRAINAGE PIPING SHALL BE UNIFORMLY PITCHED, 1/8" PER FOOT MIN UNLESS OTHERWISE REQUIRED BY EXISTING CONDITIONS.
- HOT AND COLD WATER PIPING SHALL BE PEX OR CPVC. PROVIDE MINIMUM 16" HIGH FULL AIR CHAMBER AT EACH FIXTURE STOP.
- CONDENSATE AND INDIRECT DRAIN PIPING SHALL BE SCHEDULE 40 PVC AND TYPE DWV TUBING AND FITTINGS FOR 1-1/4" AND LARGER SIZES.
- INSULATE ALL HOT AND COLD WATER PIPING. PROVIDE 1" PREFORMED FIBERGLASS ASJ-VB, FLAME SPREAD 25, SMOKE DEVELOPED 50, ASTM C-547
- TEST WATER SYSTEM UNDER 150 PSIG HYDROSTATIC PRESSURE, FOR FOUR (4) HOURS MINIMUM WHEN TESTING INDICATES MATERIALS OR WORKMANSHIP IS DEFICIENT, REPLACE OR REPAIR AS REQUIRED, AND REPEAT TEST UNTIL STANDARDS ARE ACHIEVED
- THE DOMESTIC WATER SYSTEM, DRAINAGE SYSTEMS, AND GAS PIPING SYSTEM SHALL BE FLUSHED AND PRESSURE TESTED. THE DOMESTIC WATER SYSTEM SHALL BE PURIFIED.
- COORDINATE FIXTURE TYPES WITH THE ARCHITECTURAL DRAWINGS. AREAS DESIGNATED FOR USE BY THE HANDICAPPED SHALL BE SUPPLIED WITH FIXTURES AND TRIM AS SET FORTH IN THE "AMERICANS WITH DISABILITIES ACT"(ADA).
- PROVIDE A 1-1/2" P-TRAP WITH A TRAP PRIMER FOR WATER HEATER P&T DISCHARGE.
- HOSE BIBBS SHALL BE NON-FREEZE, BACK-FLOW PREVENTER TYPE.
- COORDINATE ELECTRICAL VOLTAGES WITH ELECTRICAL DRAWINGS AND ELECTRICAL SUB-CONTRACTOR PRIOR TO ORDERING ANY EQUIPMENT.
- COORDINATE LOCATION OF FLOOR DRAINS IN MECHANICAL ROOMS WITH MECHANICAL EQUIPMENT AND MECHANICAL SUB-CONTRACTOR..

### PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	DESCRIPTION	WASTE CONN.	C.W. SUPPLY	H.W. SUPPLY
PF1A	WATER CLOSET - FLOOR MOUNTED FLUSH TANK ADA COMPLIANT	HANDICAPPED - AMERICAN STANDARD MODEL NO. 2467.100 ELONGATED BOWL, PRESSURE ASSISTED FLUSH TANK (25-80PSI OPER. PRESSURE), 1.1 GPF, WHITE VITREOUS CHINA FINISH, 15" HIGH BOWL, AMERICAN STANDARD 5905.100T WHITE SOLID PLASTIC OPEN FRONT HEAVY DUTY SEAT.	3"	1"	---
PF2A	LAVATORY - WALL MOUNTED ADA COMPLIANT	AMERICAN STANDARD 0355.012 LUCERNE VITREOUS CHINA WALL MOUNTED 20" X 18" LAVATORY PUNCHED ON 4" CENTERS. AMERICAN STANDARD FAUCET; 8123F WRIST BLADE FAUCET WITH 0.5GPM AERATOR, LESS DRAIN, 1/2" MALE THREADED CONNECTIONS. ADJUSTABLE TEMPERING VALVE. AMERICAN STANDARD 2411.015 GRID DRAIN WITH 1-1/4" TAILPIECE. MCGUIRE 170 SUPPLY TO WALL WITH WHEEL HANDLE STOPS, EXTENSION TUBE TO WALL AND FLEXIBLE RISERS. MCGUIRE 8872 P-TRAP 1-1/4" X 1-1/4" WITH CAST BRASS NUTS AND CLEANOUT PLUG.	1 1/4"	1/2"	1/2"
PF3A	DOUBLE COMPARTMENT SINK ADA COMPLIANT	33X22 STAINLESS STEEL SINK, DROP-IN, SELF RIMMING, 8" DEEP BOWL, 3" DIA OUTLET. AMERICAN STANDARD 200B.8332283S.075 SINK FAUCET - SINGLE WRIST BLADE WITH SIDE SPRAY, 8" CENTERS. AMERICAN STANDARD #7074.040	3"	1/2"	1/2"
FD	FLOOR DRAIN	FLOOR DRAIN - JOSAM 30000-5A WITH 1/2" TRAP PRIMER CONNECTION, ADJUSTABLE STRAINER NECK, ROUND STRAINER	2"	---	---
NFWH	FROST-PROOF HOSE BIB	FROST PROOF WALL HYDRANT, STAINLESS STEEL WALL BOX, LOCKABLE COVER, KEY OPERATED VALVE, DOUBLE CHECK VALVE/BACK-FLOW PREVENTER. 4" DEEP HOUSING. ARROWHEAD #AC415-08LKNL.	---	3/4"	---

NOTES:  
1. EQUAL PLUMBING FIXTURES SELECTED BY THE CONTRACTOR SHALL BE ACCEPTABLE.

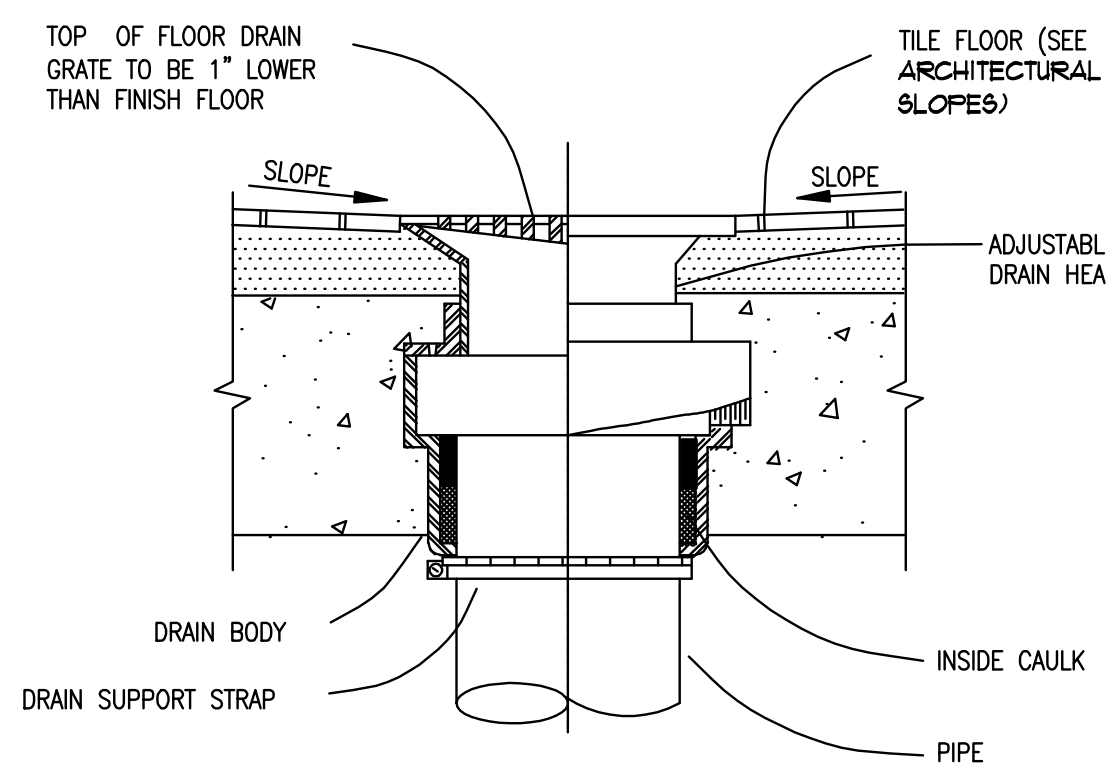
### GAS WATER HEATER SCHEDULE

MARK	MAKE & MODEL	STORAGE CAPACITY	MBH INPUT	SUPPLY TEMP (F)	TEMP RISE(F)	RECOVERY	MIN/MAX FLOW (G)	ACCESSORIES
GWH-1	NAVIER NPE-240	INST. 0	199.9	140.0	67.0	5.6GPM @ 67F	0.5/5.6	1-3

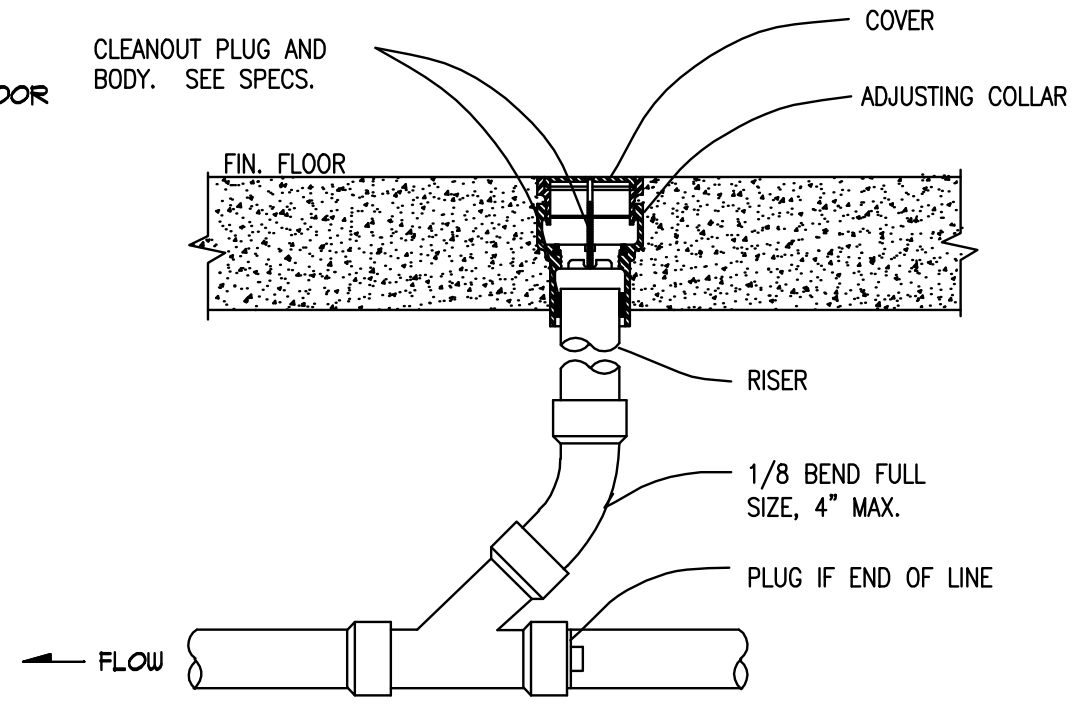
NOTES:  
1. WALL MOUNTED HEATERS, SHALL BE INTERCONNECTED CONTROLS AND HEADER PIPING PER MANUF. INSTALLATION REQUIREMENTS.  
2. 120V CONTROL CIRCUITING; COORDINATE WITH ELECTRICIAN FOR CONNECTION REQUIREMENTS.

### PLUMBING LEGEND

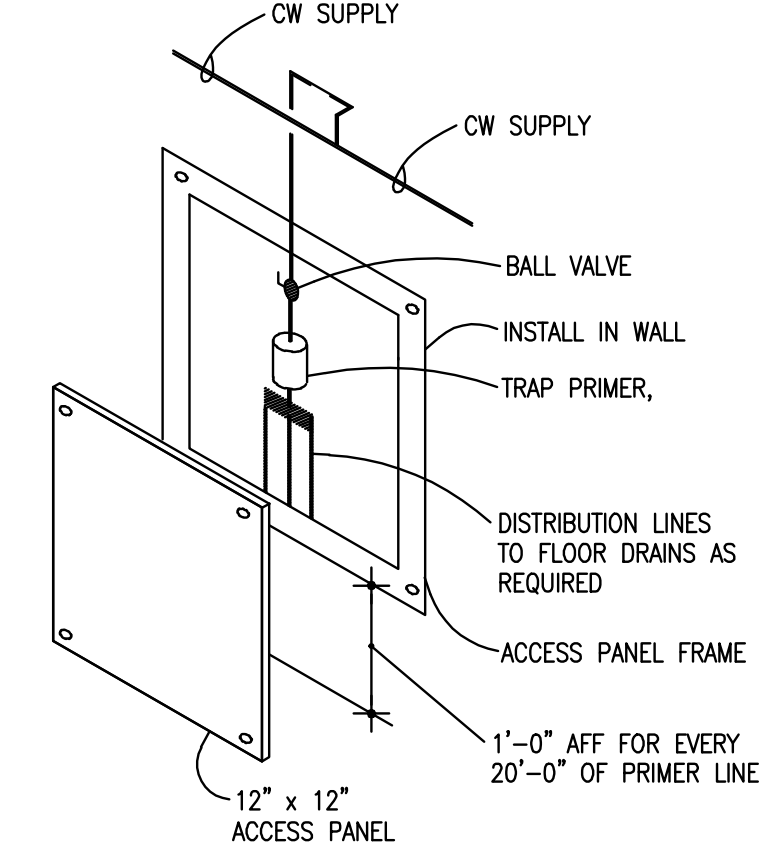
- SOIL OR WASTE ABOVE FLOOR OR GRADE (S. or W.) (PLAN VIEW)
- SOIL OR WASTE BELOW GRADE (S. or W.) (PLAN VIEW)
- GREASE/WASTE LINE BELOW GRADE (PLAN VIEW)
- VENT LINE (V.) (PLAN VIEW)
- COLD WATER LINE (CW)
- HOT WATER LINE (140 DEG HW)
- HOT WATER RETURN LINE.
- GAS PIPING
- PIPE DOWN
- PIPE UP
- BREAK
- RISER VENT THRU ROOF
- FLOOR DRAIN (F.D.) OR FLOOR SINK (FS)
- FLOOR CLEAN OUT
- C.W. COLD WATER
- H.W. HOT WATER
- HC HANDICAPPED
- W.H. WATER HEATER
- P.R.V. PRESSURE REDUCING VALVE
- B.F.P. BACK-FLOW PREVENTER
- CO CLEAN-OUT
- GCO GRADE CLEAN-OUT
- FCO FLOOR CLEAN-OUT
- SAN SANITARY WASTE
- GW GREASE WASTE
- V VENT
- V.T.R. VENT THRU ROOF



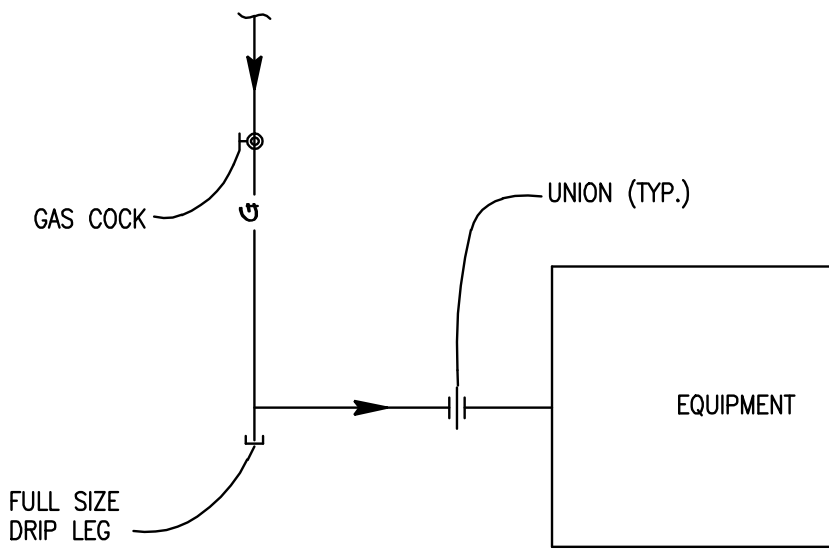
1 FLOOR DRAIN DETAIL  
SCALE: NO SCALE



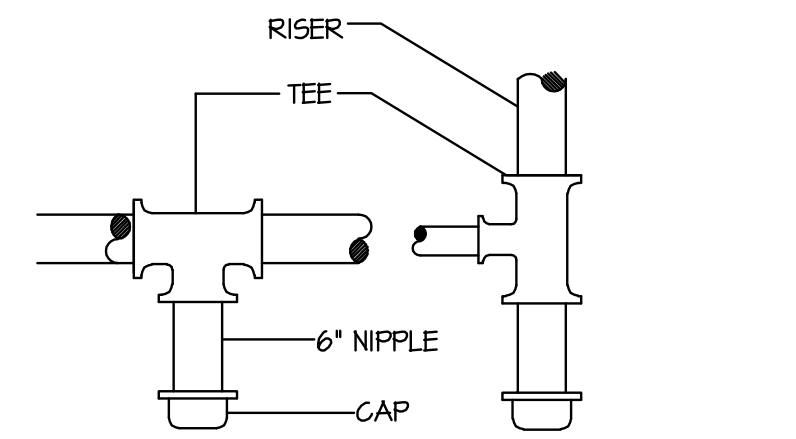
2 FLOOR CLEAN-OUT DETAIL  
SCALE: NO SCALE



3 AUTO TRAP PRIMER  
SCALE: NO SCALE



4 TYPICAL GAS CONNECTION  
SCALE: NO SCALE



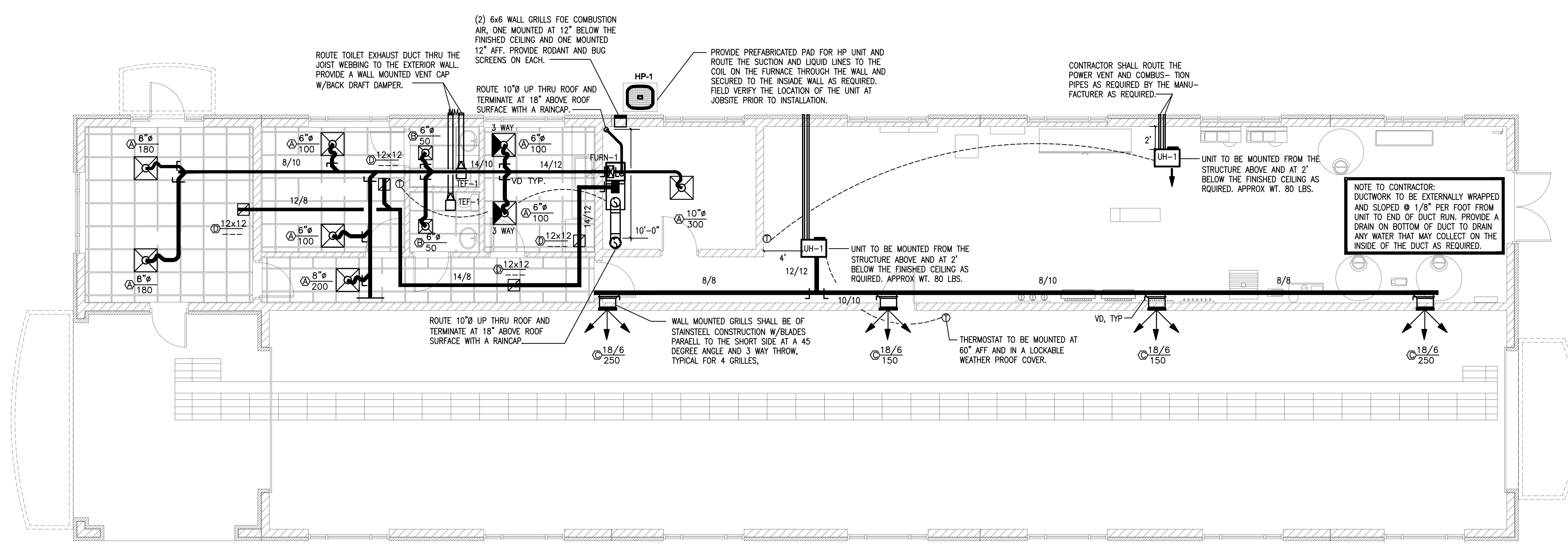
INSTALL AT LOWEST POINT IN TRAPPED SECTION  
INSTALL AT BOTTOM OF VERTICAL RISER

5 GAS DRIP LEG DETAIL  
SCALE: NO SCALE

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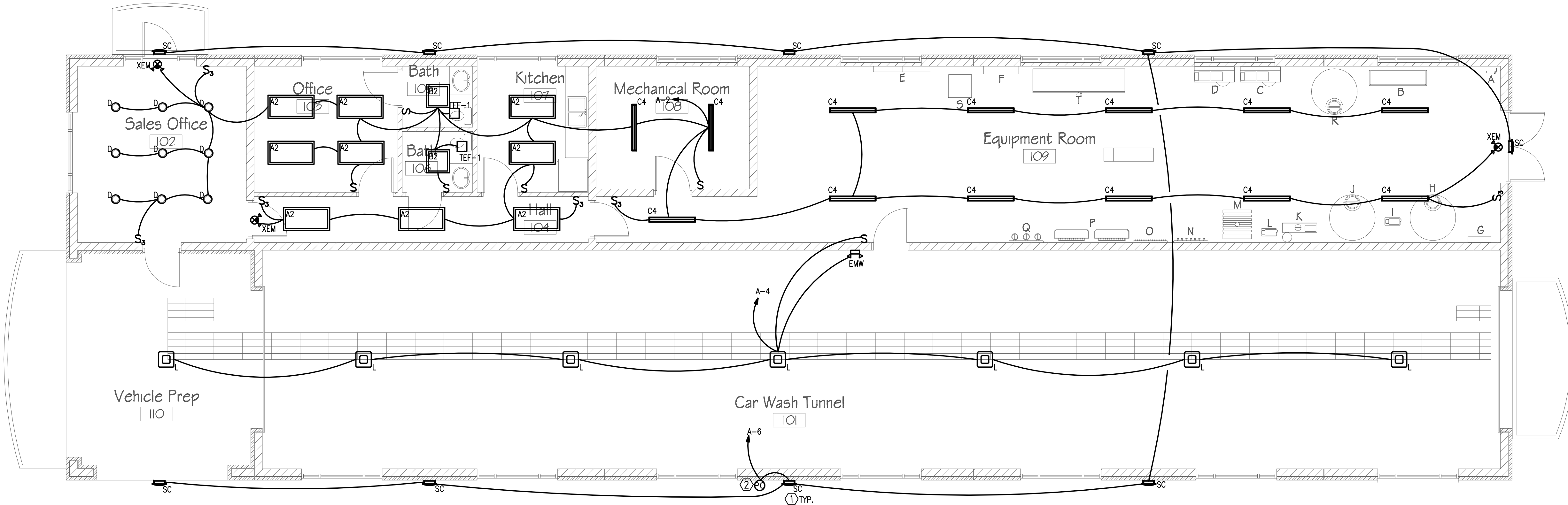
**1 MECHANICAL PLAN**  
SCALE: 3/16" = 1'-0"

HVAC SYMBOLS AND ABBREVIATIONS			
	NEW DUCTWORK	RTU*	ROOFTOP UNIT
	FLEXIBLE DUCT	FURN*	FURNACE
	VOLUME DAMPER	CFM	CUBIC FEET PER MINUTE
	SUPPLY DIFFUSER	○	DIFFUSER DESIGNATION
	RETURN OR EXHAUST GRILLE	⊕	THERMOSTAT
HP*	HEAT PUMP CONDENSER	UH*	GAS FIRED UNIT HEATER

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**1 ELECTRICAL LIGHTING PLAN**  
SCALE: 3/16" = 1'-0"

LIGHTING FIXTURE SCHEDULE							
TYPE	FIXTURE DESCRIPTION	MOUNTING	VOLTS	INPUT WATTS	LAMPS	MANUFACTURER	REMARKS
A2	2'x4' TROFFER, VOLUMETRIC HOUSING, EXTRUDED ACRYLIC CURVED SMOOTH DIFFUSER, STATIC HOUSING, 0-10V LED DIMMING DRIVER, 6' PRE-WIRE FIXTURE WHIP, DAMP LOCATION LISTED	RECESS GRID	120/277	30	90CRI 3000L 4000K	LITHONIA #2BLT4-30L-ADSM-MVOLT-EZ1-LP940	
B2	2'x2' TROFFER, VOLUMETRIC HOUSING, EXTRUDED ACRYLIC CURVED SMOOTH DIFFUSER, STATIC HOUSING, 0-10V LED DIMMING DRIVER, 6' PRE-WIRE FIXTURE WHIP, DAMP LOCATION LISTED	RECESS GRID	120/277	30	90CRI 3000L 4000K	LITHONIA #2BLT2-33L-ADSM-MVOLT-EZ1-LP940	
C4	4' STRIP, WHITE STEEL CHANNEL HOUSING, LED DRIVER, DROPPED ACRYLIC DIFFUSER, DAMP LOCATION LISTED	SURFACE CEILING	120	42	90CRI 5000L 4000K	LITHONIA #ZLIN-148-5000LM-L/LENS-MVOLT-40K-80CRI-WH	
D	6" DIA. DOWNLIGHT, 0-10V LED DIMMING, 50,000 HR OPERATION, SEMI SPECULAR DIFFUSER, DAMP LOCATION LISTED. NON-IC RATED HOUSING, WHITE PAINTED FLANGE.	RECESS CEILING	120	10.5	90CRI 1500L 4000K	LITHONIA #LDN6-40K-15L-L06WR-LSS-MVOLT-EZ10-TRW	
L	CANOPY LIGHT, DIRECT SPRAY WET LOCATION LISTED, SYMMETRICAL LIGHT DISTRIBUTION, CLASS 1, DIV 2 RATED	RECESS CEILING	120	140	80CRI 18,000L	LSI - Legacy CRU LED	
SC	INWUE ENTRI ROUND REVEAL, LED LIGHTBARS, ELECTRONIC, TYPE III W/BACK LIGHT CONTROL, BRONZE, UPLIGHT GLOW.	SURFACE WALL	120	47	80CRI 5405L	COOPER LIGHTING ENV-E02-LED-120-BL3-BZ-ULG-LCF	
EM	EMERGENCY EGRESS LIGHT, 90-MIN. BATTERY BACK-UP, 2-HEADS, WHITE THERMOPLASTIC HOUSING	SURFACE WALL	120	15	WITH UNIT	LITHONIA #ELM6 LED-W-LP03VS	
EMW	EMERGENCY EGRESS LIGHT, 90-MIN. BATTERY BACK-UP, 2-HEADS, GREY THERMOPLASTIC HOUSING, WEATHER-PROOF HOUSING	SURFACE WALL	120	15	WITH UNIT	LITHONIA, #WLTU-MR	
XEM	COMBINATION EXIT/EMERGENCY EGRESS LIGHT, SINGLE FACED, (2) ADJUSTABLE LED HEADS, 90-MIN BATTERY BACK-UP, SELF DIAGNOSTICS, WHITE THERMOPLASTIC HOUSING, RED LETTERING, DIRECTIONAL CHEVRONS AS INDICATED ON PLANS.	SURFACE WALL/CEILING	120/277	5	WITH UNIT	LITHONIA #LHQM-LED-R-SD	

NOTES:  
1. SPECIFIED LIGHT FIXTURES SHALL BE USED AS A BASIS OF DESIGN. OWNER SHALL APPROVE EXACT LIGHTING FIXTURE PACKAGE PRIOR TO BID SUBMITTAL.

- KEYNOTES: ☒
- COORDINATE MOUNTING OF FIXTURE WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN.
  - WALL MOUNTED PHOTOCELL. EXTERIOR WALL MOUNTED LIGHTING FIXTURES SHALL BE CONTROLLED VIA PHOTOCELL.

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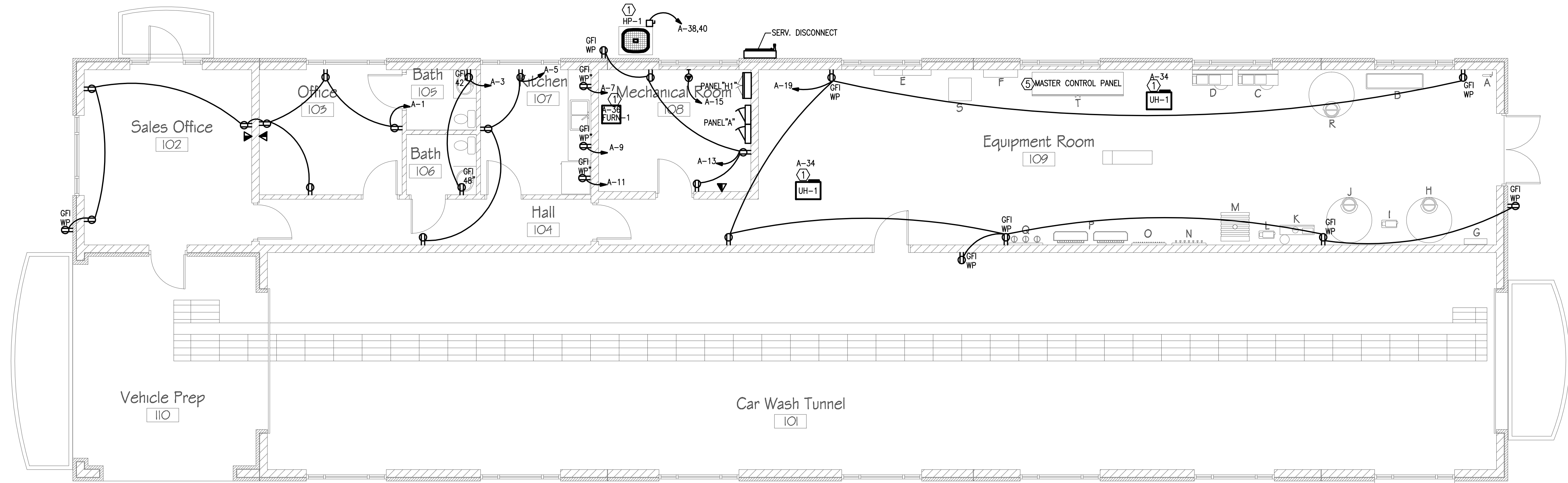
**ELECTRICAL LIGHTING PLAN**  
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approved

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**E-2.1**  
of

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**1 ELECTRICAL POWER PLAN**  
SCALE: 3/16" = 1'-0"

**KEYNOTES:** ☒

1. REFER TO "MECHANICAL-ELECTRICAL EQUIPMENT CONNECTION SCHEDULE" FOR PROTECTIVE DEVICE, FEEDER AND RACEWAY REQUIREMENTS OF UNIT. VERIFY WITH MECHANICAL CONTRACTOR EXACT REQUIREMENTS PRIOR TO ROUGH-IN.
2. PROVIDE ELECTRICAL CONNECTION TO WATER HEATER.
3. ROUTE (1) 4" PVC FROM BACKBOARD OUT TO TELEPHONE DEMARC COORDINATE EXACT SITE TERMINATION WITH UTILITY SERVICE PROVIDER.
4. PROVIDE ELECTRICAL INTEGRAL SERVICE DISCONNECT OF UNIT. FIELD CONFIRM WITH MANUFACTURERS INSTALLATION MANUAL.
5. VENDOR PROVIDED EQUIPMENT; COORDINATE WITH VENDOR DRAWING SUBMITTALS FOR EXACT ELECTRICAL REQUIREMENTS AND TERMINATION TO EQUIPMENT.

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**richard landau**  
ARCHITECTS & PLANNERS  
1-800-576-1783  
2266 Gainesville Highway • Blairsville, Georgia 30512  
(706) 745-5824 mountainarchitect@msn.com fax (775) 890-8644

**TRINITY ENGINEERING GROUP**  
1001 THOMPSON BRIDGE RD  
GAINESVILLE, GA 30601  
TEL: (770) 535-1044  
FAX: (770) 535-0637  
TEGPC: 2018009

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02.20.2018

**XTREME CLEAN AUTO SPA**  
WHITE SULFUR ROAD, GAINESVILLE GA

project name  
project

18-19

number  
drawn KAH

**ELECTRICAL POWER PLAN**  
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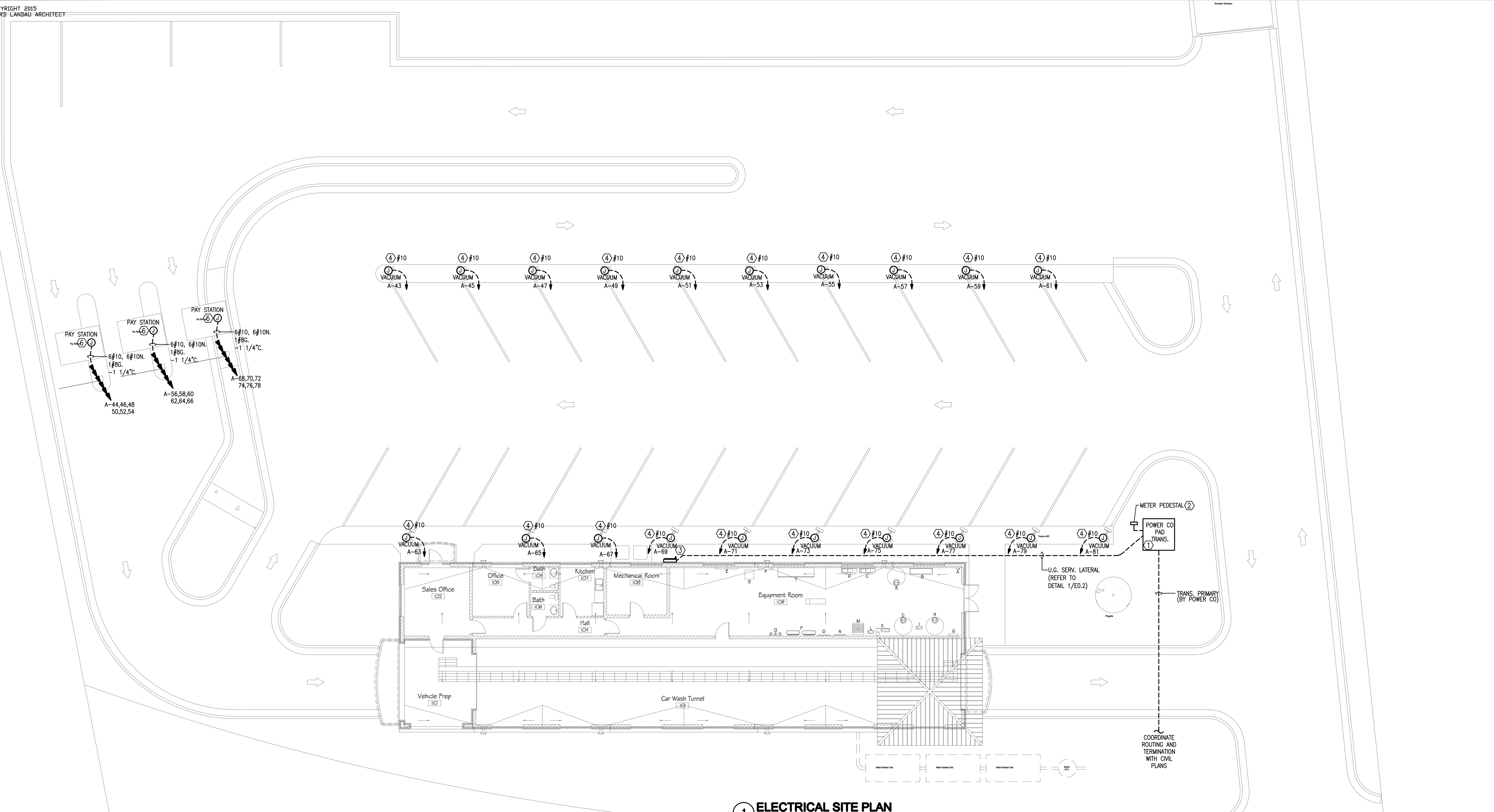
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**1 ELECTRICAL SITE PLAN**  
SCALE: 1" = 10'-0"

**KEYNOTES: (X)**

1. POWER COMPANY PAD MOUNTED TRANSFORMER; COORDINATE EXACT PLACEMENT WITH GENERAL CONTRACTOR AND POWER COMPANY PRIOR TO ROUGH-IN. TRANSFORMER AND PRE-CAST TRANSFORMER PAD TO BE PROVIDED BY POWER COMPANY.
2. ELECTRICAL METER PEDESTAL. ELECTRICAL SUB-CONTRACTOR TO PROVIDE A 6" GALVANIZED C-CHANNEL FOR MOUNTING ELECTRICAL METER. CHANNEL SHALL BE ANCHORED WITH A 1/4" DIA X 16" CONCRETE FOOTING. EXTEND A 1" GALV. RIGID RACEWAY FROM METER BASE TO INTERIOR OF TRANSFORMER ENCLOSURE; UNDERGROUND RACEWAY SHALL BE ALLOWED TO TRANSITION TO PVC
3. EXTERIOR ELECTRICAL SERVICE DISCONNECT BY ELECTRICAL SUB-CONTRACTOR.
4. PROVIDE ELECTRICAL INTEGRAL SERVICE DISCONNECT OF UNIT. FIELD CONFIRM WITH MANUFACTURERS INSTALLATION MANUAL.
5. ROUTE (1) 4" PVC FROM BACKBOARD OUT TO TV/TELEPHONE DEMARC COORDINATE EXACT SITE TERMINATION WITH UTILITY SERVICE PROVIDER.
6. EXTEND CIRCUIT HOMERUNS FROM PAY STATION ENCLOSURE BACK TO ELECTRICAL PANEL AS SHOWN. COORDINATE WITH EQUIPMENT VENDOR FOR ADDITIONAL INSTALLATION REQUIREMENTS.

**richard landau**  
ARCHITECTS & PLANNERS  
1-800-576-1783  
2266 Gainesville Highway • Blairsville, Georgia 30512  
(706) 745-5824 mountainarchitect @ msn.com fax (775) 890-8644

**TRINITY ENGINEERING GROUP**  
1001 TROMPSON BRIDGE RD  
GAINESVILLE, GA 30601  
TEL: (770) 535-1844  
FAX: (770) 535-0637  
TEGPC: 2018009

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02.20.2018

**XTREME CLEAN AUTO SPA**  
WHITE SULFUR ROAD, GAINESVILLE GA

project name  
project

18-19

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**ELECTRICAL SITE PLAN**  
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of

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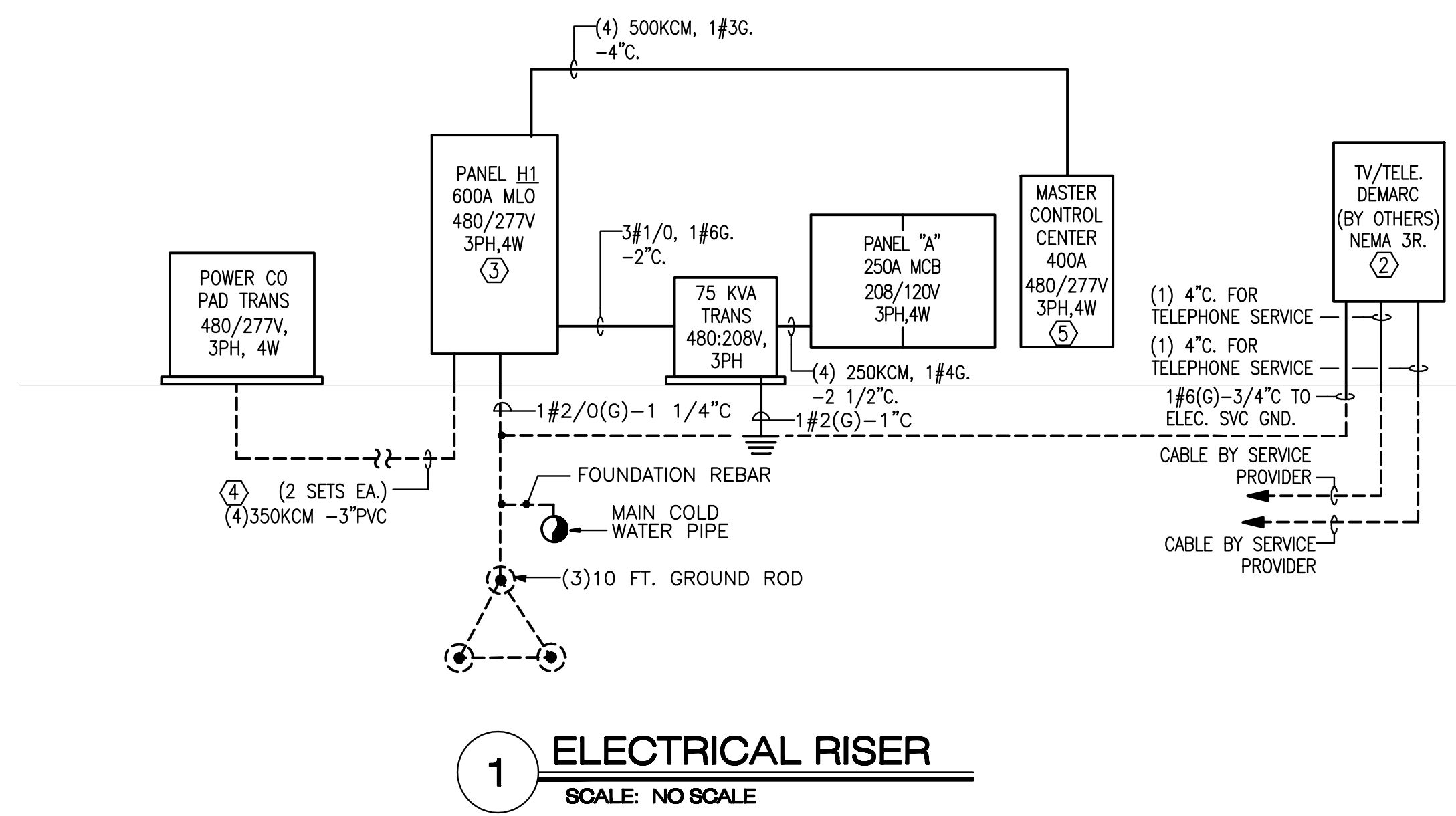
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MAINS: 600A MLO VOLTAGE: 480/277V PHASE/WIRE: 3PH, 4W MIN. AIC RATING: 65,000		PANEL SCHEDULE "H1"						MAIN BUS: COPPER MOUNTING: SURFACE LOCATION: X		
AMPS TRIP	POLES	DESCRIPTION	CKT. #	PHASE LOAD (K.V.A.)			CKT. #	DESCRIPTION	POLES	AMPS TRIP
				#A	#B	#C				
	1	SPACE	1	-	-	-	2	SPACE	1	
	1		3	-	-	-	4		1	
	1		5	-	-	-	6		1	
	1		7	-	-	-	8		1	
	1		9	-	-	-	10		1	
	1		11	-	-	-	12		1	
	1		13	-	-	-	14		1	
	1		15	-	-	-	16		1	
	1		17	-	-	-	18		1	
	1		19	-	-	-	20		1	
	1		21	-	-	-	22		1	
	1		23	-	-	-	24		1	
	1		25	-	-	-	26		1	
	1		27	-	-	-	28		1	
	1		29	-	-	-	30		1	
	1		31	-	-	-	32		1	
	1		33	-	-	-	34		1	
	1		35	-	-	-	36		1	
125			37	25.0	88.0		38			400
		TRANSFORMER	39		25.0	88.0	40	MASTER CONTROL CENTER		
	3		41			25.0	88.0	42		
NOTES: 1.				TOTALS	113.0	113.0	113.0	CONNECTED LOAD: 339.0KVA (407.9AMPS)		
								DEMAND LOAD: 339.0KVA (407.9AMPS)		

MAINS: 250A MCB VOLTAGE: 208/120V PHASE/WIRE: 3PH,4W MIN. AIC RATING: 22,000		PANEL SCHEDULE "A"						MAIN BUS: COPPER MOUNTING: SURFACE LOCATION: X			
AMPS TRIP	POLES	DESCRIPTION	CKT. #	PHASE LOAD (K.V.A.)			CKT. #	DESCRIPTION	POLES	AMPS TRIP	
				#A	#B	#C					
20	1	RECEPT.-OFFICE/SALES	1	1.6	1.3		2	LIGHTS	1	20	
20	1	RECEPT.-TOILET	3		0.4	1.0	4	LIGHTS	1	20	
20	1	RECEPT.-KITCHEN/HALLWAY	5			0.6 / 0.4	6	LIGHTS- EXTERIOR	1	20	
20	1	RECEPT.-KITCHEN	7	0.2	-		8	SPARE	1	20	
20	1	RECEPT.-KITCHEN	9		0.2	-	10	SPARE	1	20	
20	1	RECEPT.-REF.	11			1.5	-	12	SPARE	1	20
20	1	RECEPT.-MECHANICAL ROOM	13	0.6	-		14	SPARE	1	20	
20	1	TANKLESS WATER HEATER	15		-	-	16	SPARE	1	20	
20	1	SPARE	17		-	-	18	SPARE	1	20	
20	1	RECEPT.-EQUIPMENT ROOM	19	1.2	-		20	SPARE	1	20	
20	1	SPARE	21		-	-	22	SPARE	1	20	
20	1	SPARE	23		-	-	24	SPARE	1	20	
20	1	SPARE	25	-	-		26	SPARE	1	20	
20	1	SPARE	27		-	-	28	SPARE	1	20	
20	1	SPARE	29		-	-	30	SPARE	1	20	
20	1	SPARE	31	-	-		32	SPARE	1	20	
20	1	SPARE	33		-	1.4	34	UH-1 CONTROLS	1	20	
20	1	SPARE	35		-	0.9	36	FURN-1	1	20	
20	1	SPARE	37	-	2.5		38	HP-1		40	
20	1	SPARE	39		-	2.5	40		2		
20	1	SPARE	41		-	-	42	SPARE	1	20	
NOTES: 1. FEED THRU LUGS				TOTALS	7.4	5.5	3.4	CONNECTED LOAD: REFER TO SECTION 2			
								DEMAND LOAD: REFER TO SECTION 2			

MAINS: 250A MCB VOLTAGE: 208/120V PHASE/WIRE: 3PH,4W MIN. AIC RATING: 22,000		PANEL SCHEDULE "A"						MAIN BUS: COPPER MOUNTING: SURFACE LOCATION: X			
AMPS TRIP	POLES	DESCRIPTION	CKT. #	PHASE LOAD (K.V.A.)			CKT. #	DESCRIPTION	POLES	AMPS TRIP	
				#A	#B	#C					
30	1	VACUUM	43	2.0	1.5		44	PAY STATION	1	20	
30	1	VACUUM	45		2.0	1.5	46	PAY STATION	1	20	
30	1	VACUUM	47			2.0	1.5	48	PAY STATION	1	20
30	1	VACUUM	49	2.0	1.5		50	PAY STATION	1	20	
30	1	VACUUM	51		2.0	1.5	52	PAY STATION	1	20	
30	1	VACUUM	53			2.0	1.5	54	PAY STATION	1	20
30	1	VACUUM	55	2.0	1.5		56	PAY STATION	1	20	
30	1	VACUUM	57		2.0	1.5	58	PAY STATION	1	20	
30	1	VACUUM	59			2.0	1.5	60	PAY STATION	1	20
30	1	VACUUM	61	2.0	1.5		62	PAY STATION	1	20	
30	1	VACUUM	63		2.0	1.5	64	PAY STATION	1	20	
30	1	VACUUM	65			2.0	1.5	66	PAY STATION	1	20
30	1	VACUUM	67	2.0	1.5		68	PAY STATION	1	20	
30	1	VACUUM	69		2.0	1.5	70	PAY STATION	1	20	
30	1	VACUUM	71			2.0	1.5	72	PAY STATION	1	20
30	1	VACUUM	73	2.0	1.5		74	PAY STATION	1	20	
30	1	VACUUM	75		2.0	1.5	76	PAY STATION	1	20	
30	1	VACUUM	77			2.0	1.5	78	PAY STATION	1	20
30	1	VACUUM	79	2.0			80	SPACE	1		
30	1	VACUUM	81		2.0		82	SPACE	1		
20	1	SPARE	83				84	SPACE	1		
NOTES: 1.				SECTION 1	16.4	14.5	12.4	CONNECTED LOAD: 83.3KVA (156.4 AMPS)			
				SECTION 2	14.0	14.0	12.0	DEMAND LOAD: 71.0KVA (197.2 AMPS)			

SERVICE LOAD SUMMARY			
LOAD TYPE	CONNECTED LOAD (KVA)	DIVERSITY FACTOR	DEMAND LOAD (KVA)
LIGHTING	2.7	1.25	3.4
RECEPTACLES	34.6	NEC	22.3
HVAC	7.3	1.0	7.3
COOKING	N/A		N/A
ELEVATOR	N/A		N/A
MISCELLANEOUS	264.0	1.0	264.0
TOTAL LOAD	308.6 KVA		297.0 KVA
TOTAL AMPERAGE	371.4 AMPS		357.4 AMPS



- KEYNOTES (RISER):**
- COORDINATE EXACT DIMENSIONAL REQUIREMENTS OF THE METER/DISCONNECT ENCLOSURE WITH THE OWNER PRIOR TO ROUGH-IN.
  - PROVIDE A WEATHER PROOF METAL ENCLOSURE FOR INSTALLATION OF TELEPHONE AND CATV DEMARC (BY LOCAL SERVICE PROVIDER). ENCLOSURE SHALL BE PROVIDED WITH A GASKETED HINGED DOOR WITH A LOCKING HANDLE. EXTEND A PVC RACEWAY FROM THE ENCLOSURE TO THE SERVICE PROVIDER PEDESTAL/UTILITY POLE. SEAL ENDS OF RACEWAY TO PREVENT DEBRIS FROM ENTERING THE RACEWAY. ENCLOSURE SHALL BE PROVIDED WITH A 4"x4"x3/4" PLYWOOD BACKBOARD PAINTED WITH GREY FIRE RETARDANT PAINT.
  - NEW TENANT METER/SERVICE DISCONNECT ENCLOSURE. REFER TO POWER PLAN FOR PROPOSED LOCATION OF THE METER/DISCONNECT. PANEL SHALL BE SURFACE MOUNTED ON THE EXTERIOR WALL.
  - UNDERGROUND SERVICE LATERAL TO PAD MOUNTED TRANSFORMER. ELECTRICAL SUB-CONTRACTOR TO INSTALL RACEWAY (AS REQUIRED) WITH A PULL CORD FROM METER TO TRANSFORMER LOCATION. POWER COMPANY SHALL INSTALL CONDUCTORS FROM TRANSFORMER TO METER.
  - CONTROL PANEL TO BE PROVIDED BY OWNER. ELECTRICAL SUB-CONTRACTOR SHALL PROVIDE ELECTRICAL FEEDER TO LOAD LUGS OF PANEL. FIELD COORDINATE EXACT PLACEMENT OF ENCLOSURE WITH THE OWNER PRIOR TO ROUGH-IN.

ELECTRICAL-MECHANICAL EQUIPMENT SCHEDULE											
DEVICE	VOLTAGE	HP	HEAT KW	FLA	MCA	MOCP	CKT. #	LOAD (KVA)	FEEDERS	DISCONNECT	NOTES
FURN-1	120/1	1.0	N/A	7.1	8.8	20	SEE PANEL SCHEDULE	0.9	2#12, 1#12G, -1/2"	MOT SQ.	
HP-1	208/1			23.3	27.6	40		4.9	3#8, 1#10G, -3/4"	60/2/F40A/WP	

NOTES:  
1. X

