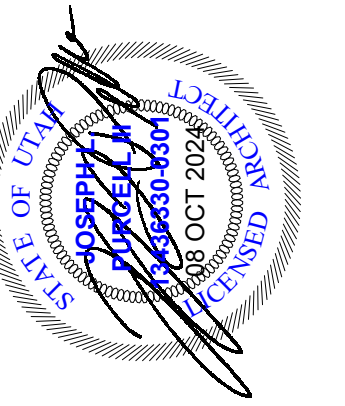


# KCC STORES WAREHOUSE

## 2010 N. RULON WHITE BLVD.

### FARR WEST, WEBER COUNTY, UT 84404

**PERMIT SUBMITTAL -  
REV 1**



**EA SOLUTIONS**

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**1 SITE LOCATION PLAN**  
N.T.S.

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#### SHEET INDEX

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#### SHEET NUMBER KEY

PHASE  
DISCIPLINE  
TYPE  
SEQUENCE IN TYPE

**X-A-201**

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1	10/23/24	Revision 1

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2010 N. RULON WHITE BLVD.

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**ABBREVIATIONS/ACRONYMS**

A.B.	anchor bolt	FD	floor drain	MTL	metal
A/C	air conditioning	FDN	foundation	MULL	mullion
ABV	above	FE	fire extinguisher	N	north
ADA	americans with disabilities act	FEC	fire extinguisher cabinet	NIC	not in contract
ADD'L	additional	FGL	fiberglass	No.	number
AFF	above finished floor	FHS	fire hose station	NOM	nominal
ALT	alternate	FIN	finish(ed)	NTS	not to scale
ALUM	aluminum	FIN. FLR	finished floor elevation	O.C.	on center
ANOD	anodized	FP	fireplace	OD	outside diameter
ANSI	american national standards institute	FRT	fire-retardant treated	OH	overhead
APPR	approved	FS	footing step	OPG	opening
APPROX	approximate	FT	feet	OPP	opposite
ARCH	architect(ural)	FTG	footing	OPT	optimum
ASPH	asphalt	GA	gage, guage	PBD	particle board
AUTO	automatic	GALV	galvanized	PCB	polychlorinated biphenyls
BD	board	GB	grab bar	PL	plate
BLDG	building	GD	grade(ing)	PNL	panel
BLK	block	GF	government furnished	PSI	pounds per square inch
BO	bottom of _____	GI	government installed	PSIG	pounds per square inch gauge
BRG	bearing	GL	glass	PT	pressure treated or post tension
BSMT	basement	GLB	glue laminated timber beam	PTD	painted
BTWN	between	GYP. BD.	gypsum wall board	PTN	partition
CF	cubic foot	HAS	headed anchor stud	QTY	quantity
CG	center of gravity	HB	hose bib	R	riser(s), radius
CI	cast iron	HC	hollow core	RAD	radius
CJ	construction joint	HCAP	handicap	REA	Rand Eardley & Associates
CL	center line or column line	HD	holdown	REINFD	reinforced
CLG	ceiling	HDR	header	REQ'D	required
CLR	clear(ance), category of logistical responsibility	HDWR	hardware	REV	revised
CMU	concrete masonry unit	HM	hollow metal	RM	room
COL	column	HOR	horizontal	RO	rough opening
CONC	concrete	HR	hour	S	south
CONST	construction	HRDWD	hardwood	S.S.	stainless steel
CONT	continuous, continue	HT	height	SCHED	schedule(ed)
CPT	carpet	HTG	heating	SECT	section
CRS	course(s)	HVAC	heating/ventilating/air cond.	SF	square feet
CSMT	casement	HWH	hot water heater	SHT	sheet
CY	cubic yard	ID	inside diameter	SIM	similar
DE	door elevation	INCL	include(d), (ing)	SPEC	specifications
DET	detail	INSUL	insulate(d), (ion)	SQ	square
DF	drinking fountain	INT	interior	STD	standard
DF-L	douglas fir	JSN	joint schedule number	STG	storage
DIA	diameter	JT	joint	STRUC	structure(al)
DIM	dimension	LAM	laminated(d)	SW	shear wall
DIV	division	LAV	lavatory	T	tread(s)
DL	dead load	LF	linear feet	T.O.	top of _____
DOD	department of defense	LH	left hand	TC	top of curb
DPR	dispenser	LL	live load	TYP	typical
DR	door	LP	low pressure	UL	underwriters laboratories
DWB	deformed weldable bar	LTL	lintel	UNO	unless noted otherwise
DWG	drawing	LVL	laminated veneer lumber	VB	vapor barrier
E	east	LW	lightweight	VCT	vinyl composition tile
EA	each	MAS	masonry	VERT	vertical
EJ	expansion joint	MATL	material(s)	W	west
ELEC	electrical	MAX	maximum	W/	with
ELEV. EL	elevation	MB	machine bolt	W/O	without
EMT	electrical metallic tubing	MBR	member	WC	water closet
EN	edge nail	MC	medicine cabinet	WD	wood
EQ	equal	MECH	mechanic(al)	WF	wide flange
EQUIP	equipment	MED	medium	WP	water proof(ing)
EST	estimate	MFR	manufacture(r)	WR	water repellant
EX	existing	MIN	minimum	WS	wall step
EXP	expansion	MISC	miscellaneous	WSCT	wainscot
EXT	extinguisher	MLB	microlam beam	WWF	welded wire fabric
fc	concrete 28 day strength	MMB	membrane		
fm	masonry strength	MO	masonry opening		

**STANDARD SYMBOLS**

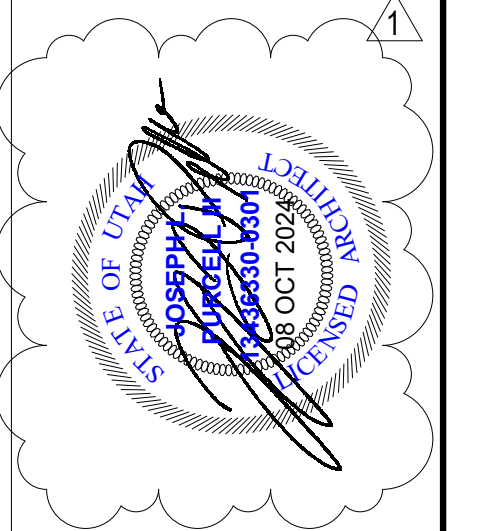
<b>ROOM DESIGNATION</b>	
<b>DOOR DESIGNATION</b>	
<b>WINDOW DESIGNATION</b>	
<b>ELEVATION, (VIEW)</b>	
<b>ELEVATION, (DATUM)</b>	
<b>NORTH ARROW</b>	
<b>DETAIL</b>	
<b>DRAWING TITLE</b>	
<b>REVISION DESIGNATION</b>	
<b>GRID HEAD</b>	

**LINE TYPES**

<b>MATCH</b>	
<b>PROPERTY</b>	
<b>GRID</b>	
<b>HIDDEN</b>	
<b>REMOVAL</b>	
<b>OVERHEAD</b>	

**ARCHITECTURAL MATERIALS**

<b>STEEL STUD</b>	
<b>GYPSUM BOARD CEILING / WALL</b>	
<b>LAY-IN ACOUSTICAL CEILING</b>	
<b>CONCRETE</b>	
<b>CARPET / TILE (SECTION)</b>	
<b>PLYWOOD (SECTION)</b>	
<b>MASONRY WALL</b>	
<b>TEMPORARY WALL</b>	



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**KCC STORES WAREHOUSE**  
 2010 N. RULON WHITE BLVD.  
 FARR WEST, UT 84404  
**PERMIT SUBMITTAL**  
 GENERAL NOTES, SYMBOLS, ABBREVIATIONS

SHEET NUMBER  
**G-002**

## STRUCTURAL STEEL SPECIAL INSPECTION SCHEDULE

ESTABLISHED PER 2021 IBC SECTION 1705.2.1

INSPECTION TASKS PRIOR TO WELDING (TABLE N5.4-1)	FABRICATOR QUALITY CONTROL		SPECIAL INSPECTOR QUALITY ASSURANCE		NOTES
	CONTINUOUS	PERIODIC	CONTINUOUS	PERIODIC	
WELDER QUALIFICATION RECORDS AND CONTINUITY RECORDS	●			●	
WELDING PROCEDURE SPECIFICATIONS (WPSs) AVAILABLE	●				
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	●				
MATERIAL IDENTIFICATION (TYPE / GRADE)		●		●	
WELDER IDENTIFICATION SYSTEM <sup>1</sup>		●		●	
FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY)					
* JOINT PREPARATION					
* DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)					
* CLEANLINESS (CONDITION OF STEEL SURFACES)					
* TACKING (TACK WELD QUALITY AND LOCATION)					
* BACKING TYPE AND FIT (IF APPLICABLE)					
FIT-UP OF CJP GROOVE WELDS OF HSS T-, Y-, AND K-JOINTS WITHOUT BACKING (INCLUDING JOINT GEOMETRY)					
* JOINT PREPARATIONS					
* DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)					
* CLEANLINESS (CONDITION OF STEEL SURFACES)					
* TACKING (TACK WELD QUALITY AND LOCATION)					
CONFIGURATION AND FINISH OF ACCESS HOLES					
FIT-UP OF FILLET WELDS					
* DIMENSIONS (ALIGNMENT, GAPS AT ROOT)					
* CLEANLINESS (CONDITION OF STEEL SURFACES)					
* TACKING (TACK WELD QUALITY AND LOCATION)					
CHECK WELDING EQUIPMENT					
<i><sup>1</sup>THE FABRICATOR OR ERECTOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED. STAMPS, IF USED, SHALL BE THE LOW-STRESS TYPE.</i>					
INSPECTION TASKS DURING WELDING (TABLE N5.4-2)	CONTINUOUS	PERIODIC	CONTINUOUS	PERIODIC	NOTES
CONTROL AND HANDLING OF WELDING CONSUMABLES					
* PACKAGING					
* EXPOSURE CONTROL					
NO WELDING OVER CRACKED TACK WELDS					
ENVIRONMENTAL CONDITIONS					
* WIND SPEED WITHIN LIMITS					
* PRECIPITATION AND TEMPERATURE					
WPS FOLLOWED					
* SETTINGS ON WELDING EQUIPMENT					
* TRAVEL SPEED					
* SELECTED WELDING MATERIALS					
* SHIELDING GAS TYPE / FLOW RATE					
* PREHEAT APPLIED					
* INTERPASS TEMPERATURE MAINTAINED (MIN. / MAX)					
* PROPER POSITION (F, V, H, OH)					
WELDING TECHNIQUES					
* INTERPASS AND FINAL CLEANING					
* EACH PASS WITHIN PROFILE LIMITATIONS					
* EACH PASS MEETS QUALITY REQUIREMENTS					
PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS					
INSPECTION TASKS AFTER WELDING (TABLE N5.4-3)	CONTINUOUS	PERIODIC	CONTINUOUS	PERIODIC	NOTES
WELDS CLEANED					
SIZE, LENGTH AND LOCATION OF WELDS					
WELDS MEET VISUAL ACCEPTANCE CRITERIA					
* CRACK PROHIBITION					
* WELD / BASE-METAL FUSION					
* CRATER CROSS SECTION					
* WELD PROFILES					
* WELD SIZE					
* UNDERCUT					
* POROSITY					
ARC STRIKES					
K-AREA <sup>1</sup>					
WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES <sup>2</sup>					
BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)					
REPAIR ACTIVITIES					
DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER					
NO PROHIBITED WELDS HAVE BEEN ADDED WITHOUT THE APPROVAL OF THE EOR					
<i><sup>1</sup>WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE K-AREA, VISUALLY INSPECT THE WEB K-AREA FOR CRACKS WITHIN 3 IN. (75mm) OF THE WELD.</i>					
<i><sup>2</sup>AFTER ROLLED HEAVY SHAPES (SEE SECTION A3.1c) AND BUILT-UP HEAVY SHAPES (SEE SECTION A3.1d) ARE WELDED, VISUALLY INSPECT THE WELD ACCESS HOLE FOR CRACKS.</i>					

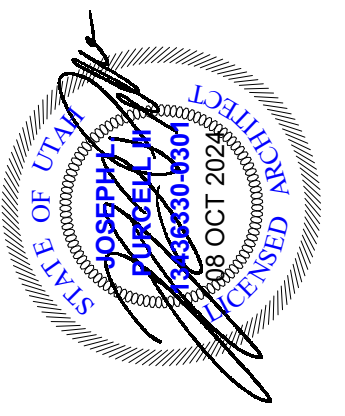
INSPECTION TASKS PRIOR TO BOLTING (TABLE N5.6-1)	CONTINUOUS	PERIODIC	CONTINUOUS	PERIODIC	NOTES
MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS					
FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS					
PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)					
PROPER BOLTING PROCEDURES SELECTED FOR JOINT DETAIL					
CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS					
PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED					
PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS					
INSPECTION TASKS DURING BOLTING (TABLE N5.6-2)	CONTINUOUS	PERIODIC	CONTINUOUS	PERIODIC	NOTES
FASTENER ASSEMBLIES, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED					
JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION					
FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING					
FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES					
INSPECTION TASKS AFTER BOLTING (TABLE N5.6-3)	CONTINUOUS	PERIODIC	CONTINUOUS	PERIODIC	NOTES
DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS					

**GENERAL STEEL SPECIAL INSPECTION NOTES :**

- QUALITY ASSURANCE (QA) INSPECTION OF FABRICATED ITEMS SHALL BE MADE AT THE FABRICATOR'S PLANT. THE QUALITY ASSURANCE INSPECTOR (QAI) SHALL SCHEDULE THIS WORK TO MINIMIZE INTERRUPTION TO THE WORK OF THE FABRICATOR.
- QA INSPECTION OF THE ERECTED STEEL SYSTEM SHALL BE MADE AT THE PROJECT SITE. THE QAI SHALL SCHEDULE THIS WORK TO MINIMIZE INTERRUPTION TO THE WORK OF THE ERECTOR.
- WHERE A TASK IS NOTED TO BE PERFORMED BY BOTH QC AND QA, IT IS PERMITTED TO COORDINATE THE INSPECTION FUNCTION BETWEEN THE QC AND QAI SO THAT THE INSPECTION FUNCTIONS ARE PERFORMED BY ONLY ONE PARTY. WHERE QA RELIES UPON INSPECTION FUNCTIONS PERFORMED BY QC, THE APPROVAL OF THE ENGINEER OF RECORD AND THE AUTHORITY HAVING JURISDICTION IS REQUIRED.
- THE FABRICATOR'S QCI SHALL INSPECT THE FABRICATED STEEL TO VERIFY COMPLIANCE WITH THE DETAILS SHOWN ON THE SHOP DRAWINGS, SUCH AS PROPER APPLICATION OF JOINT DETAILS AT EACH CONNECTION. THE ERECTOR'S QCI SHALL INSPECT THE ERECTED STEEL FRAME TO VERIFY COMPLIANCE WITH THE DETAILS SHOWN ON THE ERECTION DRAWINGS, SUCH AS BRACES, STIFFENERS, MEMBER LOCATIONS AND PROPER APPLICATION OF JOINT DETAILS AT EACH CONNECTION.
- THE QAI SHALL BE ON THE PREMISES FOR INSPECTION DURING THE PLACEMENT OF ANCHOR RODS AND OTHER EMBEDMENTS SUPPORTING STRUCTURAL STEEL FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS. AS A MINIMUM, THE DIAMETER, GRADE, TYPE AND LENGTH OF THE ANCHOR ROD OR EMBEDMENT INTO THE CONCRETE, SHALL BE VERIFIED PRIOR TO PLACEMENT OF THE CONCRETE.
- THE QAI SHALL INSPECT THE FABRICATED STEEL OR ERECTED STEEL FRAME, AS APPROPRIATE, TO VERIFY COMPLIANCE WITH THE DETAILS SHOWN ON THE CONSTRUCTION DOCUMENTS, SUCH AS BRACES, STIFFENERS, MEMBER LOCATIONS AND PROPER APPLICATION OF JOINT DETAILS AT EACH CONNECTION.
- QUALITY ASSURANCE (QA) INSPECTIONS, EXCEPT NONDESTRUCTIVE TESTING (NDT), MAY BE WAIVED WHEN THE WORK IS PERFORMED IN A FABRICATING SHOP OR BY AN ERECTOR APPROVED BY THE AUTHORITY HAVING JURISDICTION (AHJ) TO PERFORM THE WORK WITHOUT QA. NDT OF WELDS COMPLETED IN AN APPROVED FABRICATOR'S SHOP MAY BE PERFORMED BY THAT FABRICATOR WHEN APPROVED BY THE AHJ. WHEN THE FABRICATOR PERFORMS THE NDT, THE QA AGENCY SHALL REVIEW THE FABRICATOR'S NDT REPORTS.
- AT COMPLETION OF FABRICATION, THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE AHJ STATING THAT THE MATERIALS SUPPLIED AND WORK PERFORMED BY THE FABRICATOR ARE IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS. AT COMPLETION OF ERECTION, THE APPROVED ERECTOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE AHJ STATING THAT THE MATERIALS SUPPLIED AND WORK PERFORMED BY THE ERECTOR ARE IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS.
- IDENTIFICATION AND REJECTION OF MATERIAL OR WORKMANSHIP THAT IS NOT IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS, SHALL BE PERMITTED AT ANY TIME DURING THE PROGRESS OF THE WORK. HOWEVER, THIS PROVISION SHALL NOT RELIEVE THE OWNER OR THE INSPECTOR OF THE OBLIGATION FOR TIMELY, IN-SEQUENCE INSPECTIONS. NONCONFORMING MATERIAL AND WORKMANSHIP SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE FABRICATOR OR ERECTOR, AS APPLICABLE.
- NONCONFORMING MATERIAL OR WORKMANSHIP SHALL BE BROUGHT INTO CONFORMANCE, OR MADE SUITABLE FOR ITS INTENDED PURPOSE AS DETERMINED BY THE ENGINEER OF RECORD.
- CONCURRENT WITH THE SUBMITTAL OF SUCH REPORTS TO THE AHJ, EOR OR OWNER, THE QA AGENCY SHALL SUBMIT TO THE FABRICATOR AND ERECTOR:
  - NONCONFORMANCE REPORTS
  - REPORTS OF REPAIR, REPLACEMENT OR ACCEPTANCE OF NONCONFORMING ITEMS.

Sched18I - 2021 Structural Steel Special Inspection



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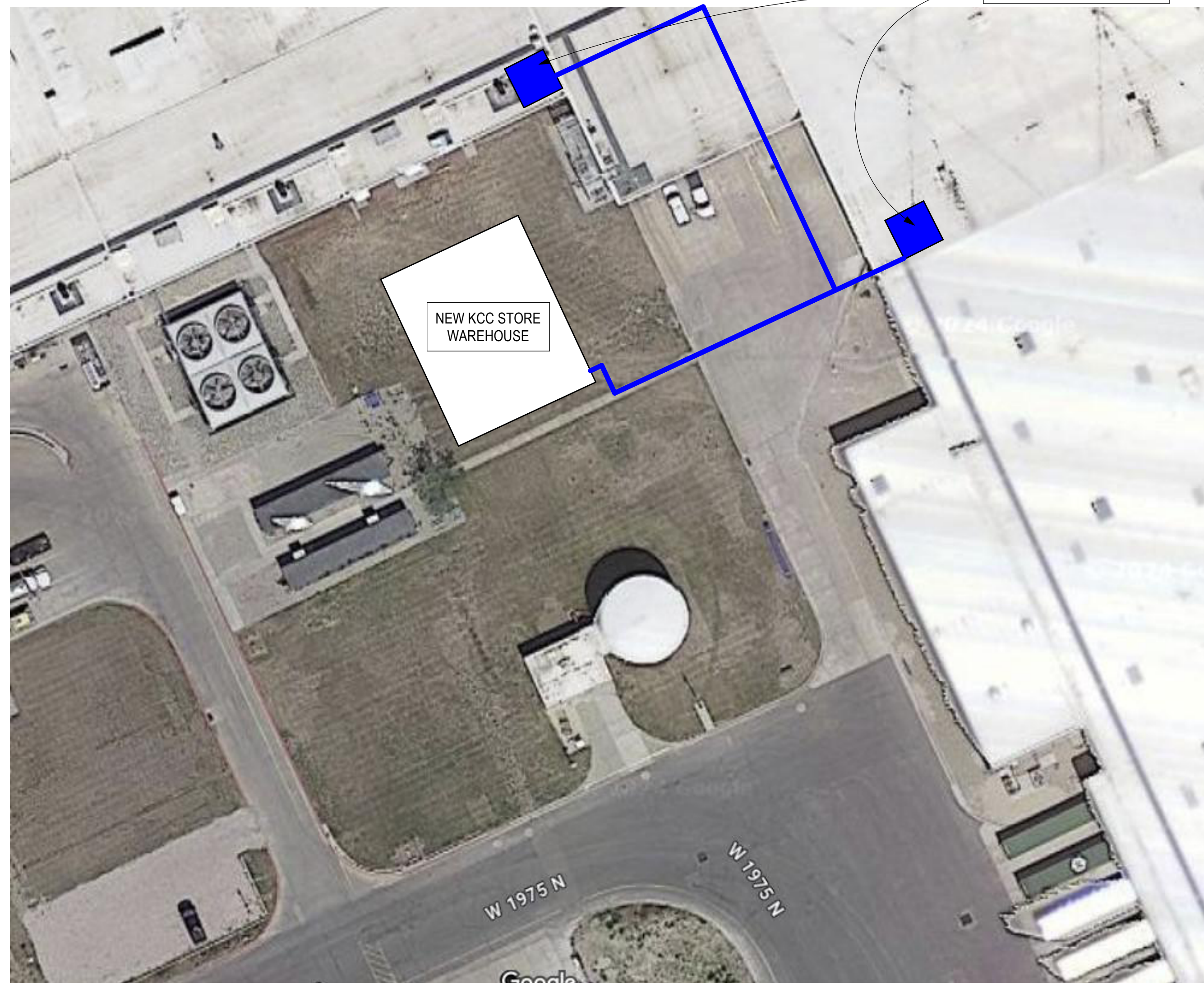
Rev.	Date	Description
1	10/23/24	

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Reviewed by: RME	Scale: 3/4" = 1'-0"	
Submitted by:	Project Number: E242022P	

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**STRUCTURAL STEEL SPECIAL INSPECTION SCHEDULE**

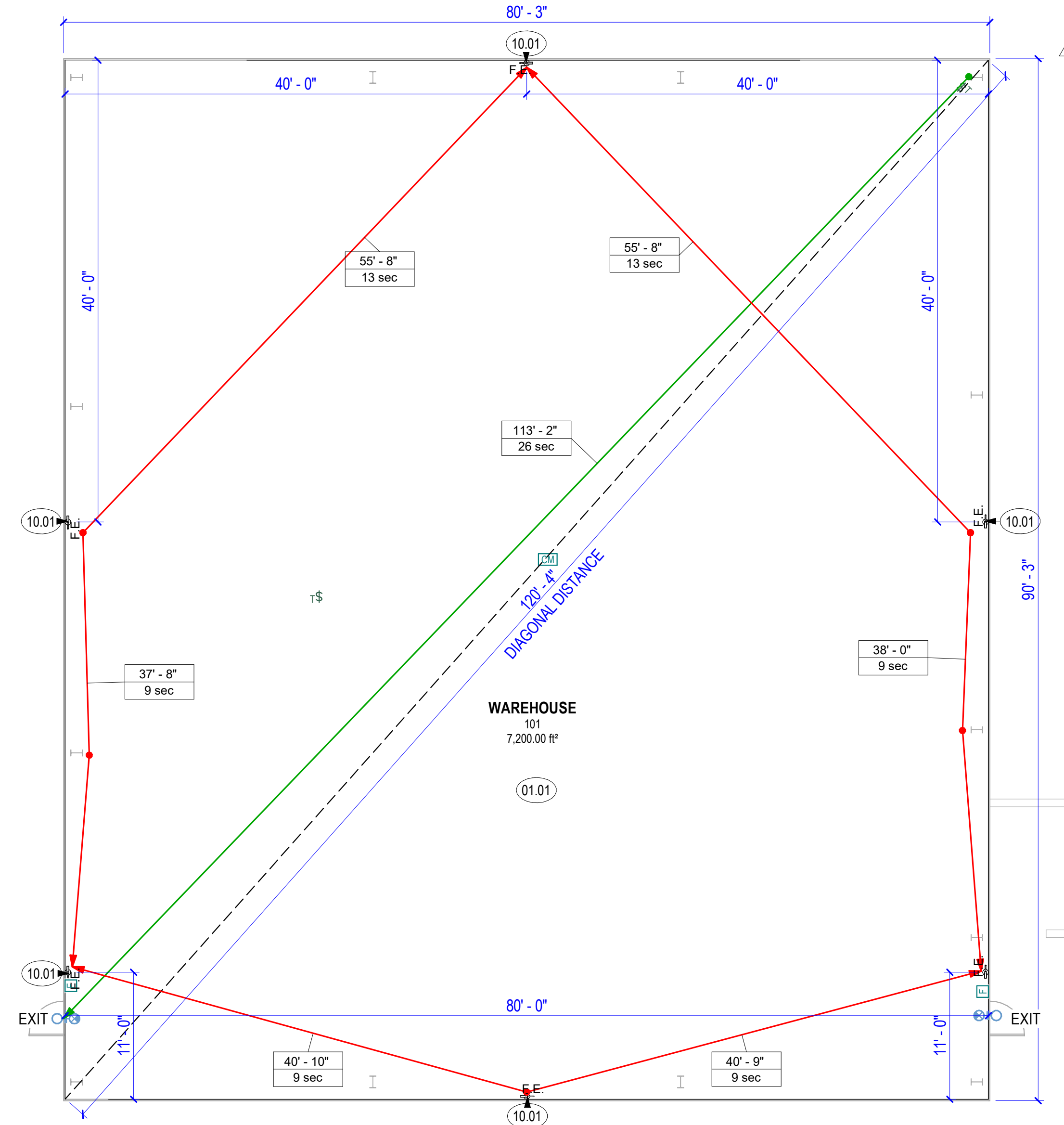
SHEET NUMBER  
**G-003**



2 RESTROOM LOCATIONS  
N.T.S.

**APPLICABLE CODES**

2021 INTERNATIONAL BUILDING CODE, INCLUDING APPENDIX J  
 2021 INTERNATIONAL MECHANICAL CODE  
 2021 INTERNATIONAL PLUMBING CODE  
 2021 INTERNATIONAL FIRE CODE  
 2021 INTERNATIONAL FUEL GAS CODE  
 2020 NATIONAL ELECTRIC CODE  
 2021 INTERNATIONAL ENERGY CONSERVATION CODE  
 ICC A117.1-2009 STANDARD FOR ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES



1 FIRST LEVEL LIFE SAFETY PLAN  
1/8" = 1'-0"

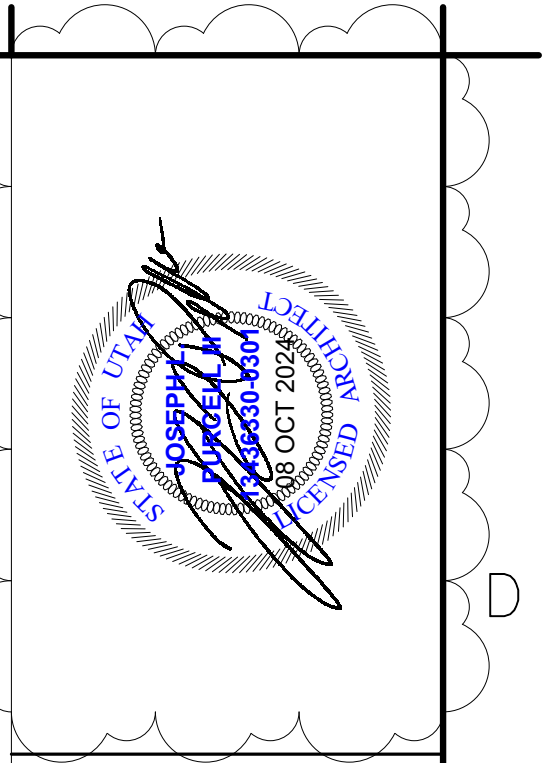
**KEYED NOTES**

01.01 STRUCTURES UNDER CONSTRUCTION, ALTERATION OR DEMOLITION SHALL BE PROVIDED WITH NOT FEWER THAN ONE APPROVED PORTABLE FIRE EXTINGUISHER IN ACCORDANCE WITH IBC SECTION 906 AND SIZED FOR NOT LESS THAN ORDINARY HAZARDS AS FOLLOWS PER IBC 3309.1: ON ALL FLOOR LEVELS WHERE COMBUSTIBLE MATERIALS HAVE ACCUMULATED, IN EVERY STORAGE AND CONSTRUCTION SHED, ADDITIONAL PORTABLE FIRE EXTINGUISHERS SHALL BE PROVIDED WHERE SPECIAL HAZARDS EXIST, SUCH AS THE STORAGE AND USE OF FLAMMABLE AND COMBUSTIBLE LIQUIDS

10.01 WALL-MOUNTED FIRE EXTINGUISHER, SEE SHEET A-501 FOR MOUNTING HEIGHT

**LIFE SAFETY PLAN LEGEND**

- EXIT SIGN
- LIFE SAFETY EGRESS PATH
- FIRE EXTINGUISHER DISTANCE
- WALL MOUNTED FIRE EXTINGUISHER
- FIRE ALARM, HORN - STROBE
- FIRE ALARM PULL STATION



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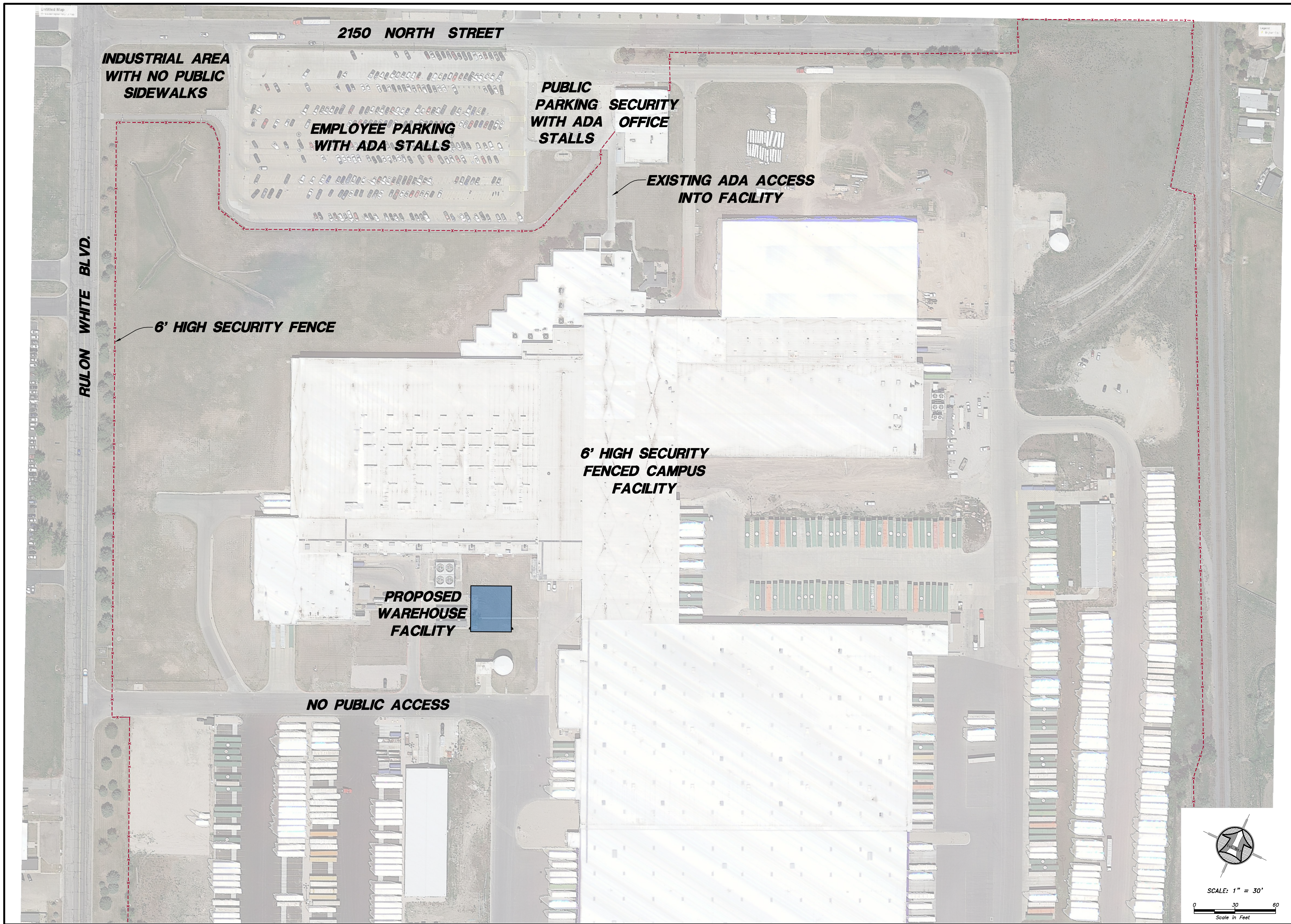
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Designed by:	TRP
Drawn by:	CJK
Reviewed by:	TRP
Submitted by:	TRP
File:	
Scale:	As indicated
Project Number:	E242022P

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 2010 N. RULON WHITE BLVD.  
 FARR WEST, UT 84404  
 PERMIT SUBMITTAL

FIRST LEVEL LIFE SAFETY PLAN



SHEET NUMBER  
**LP101**



2150 NORTH STREET

INDUSTRIAL AREA WITH NO PUBLIC SIDEWALKS

EMPLOYEE PARKING WITH ADA STALLS

PUBLIC PARKING WITH ADA STALLS

SECURITY OFFICE

EXISTING ADA ACCESS INTO FACILITY

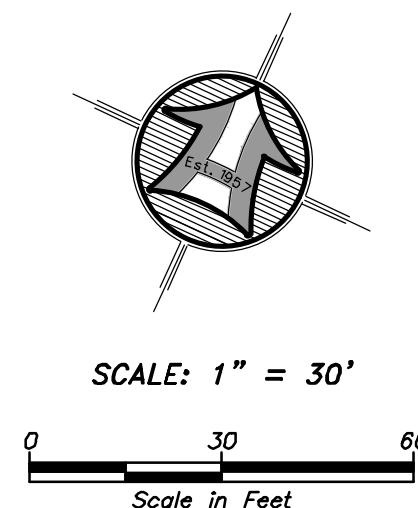
6' HIGH SECURITY FENCE

RULON WHITE BLVD.

6' HIGH SECURITY FENCED CAMPUS FACILITY

PROPOSED WAREHOUSE FACILITY

NO PUBLIC ACCESS



OVERALL CAMPUS FACILITY & PUBLIC ADA ACCESS FOR

# KCC STORES WAREHOUSE

2150 N. Rulon White Blvd.  
Farr West, Weber County, Utah

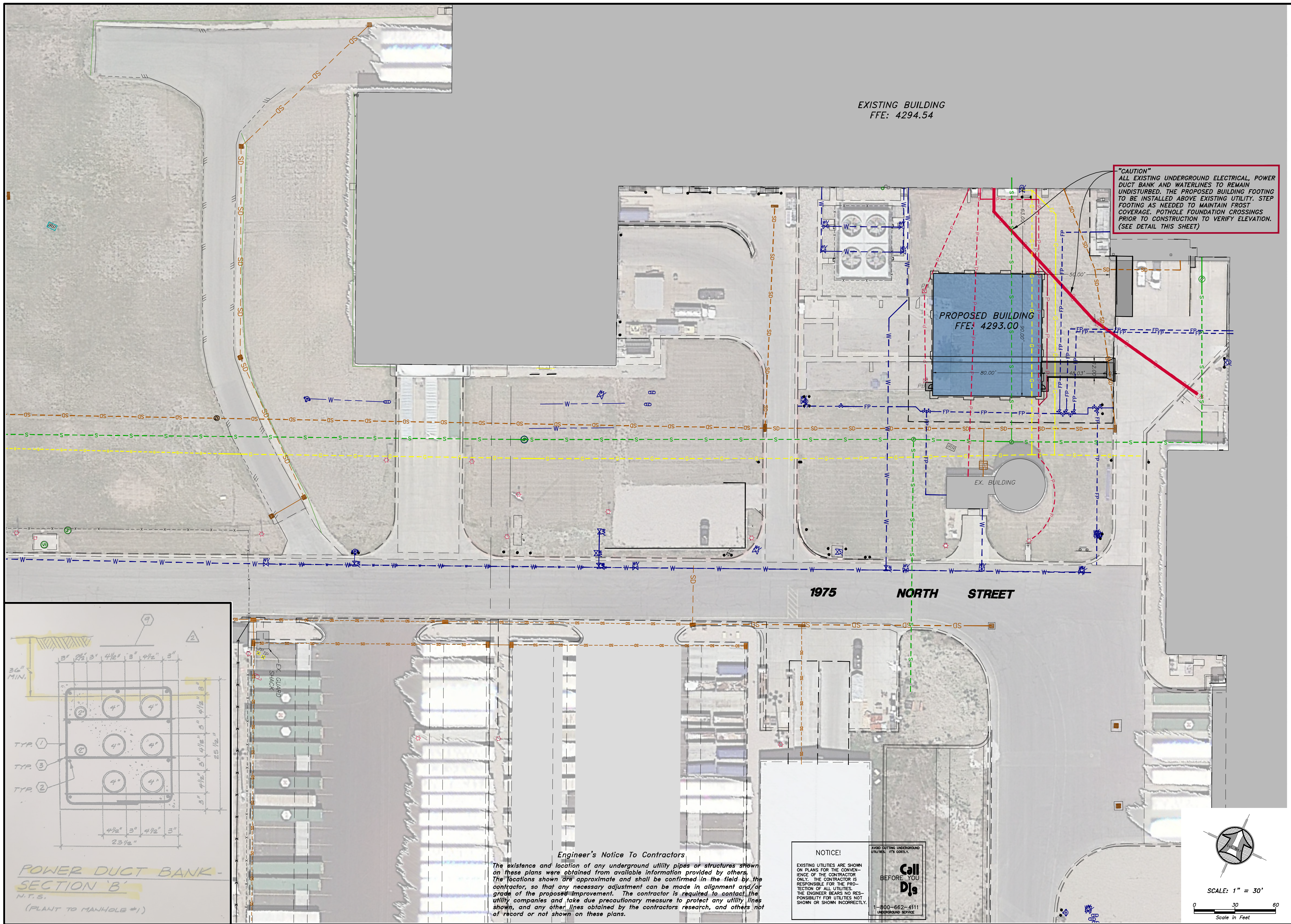
Sheet  
**C-100**

Drawn By: MSJ Date: 11/04/24  
 Checked By: \_\_\_\_\_  
 Approved By: \_\_\_\_\_  
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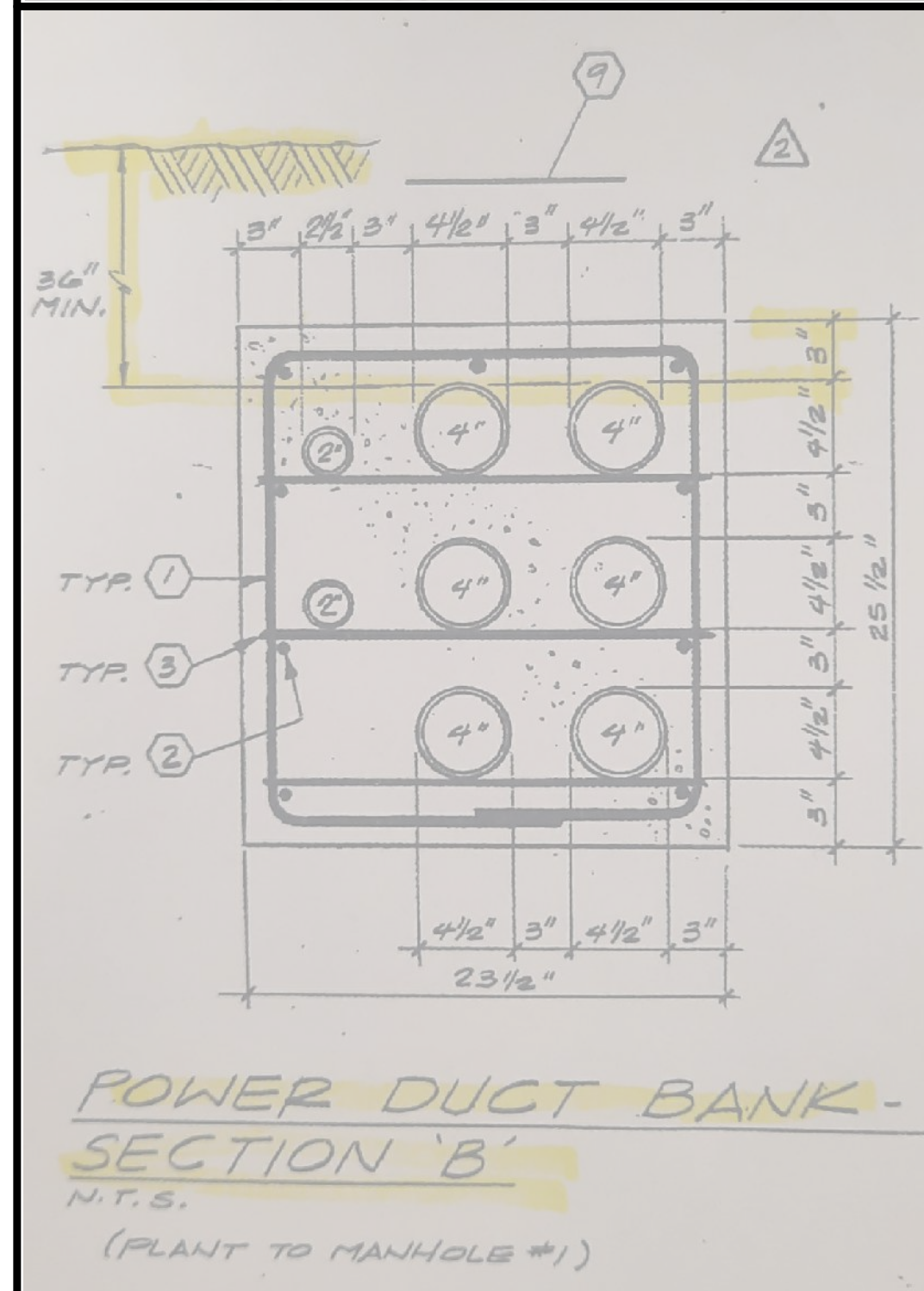
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PROFESSIONAL ENGINEER AND LAND SURVEYOR  
 JAMES B. HANSEN  
 No. \_\_\_\_\_ Date \_\_\_\_\_ By \_\_\_\_\_  
 Revision \_\_\_\_\_

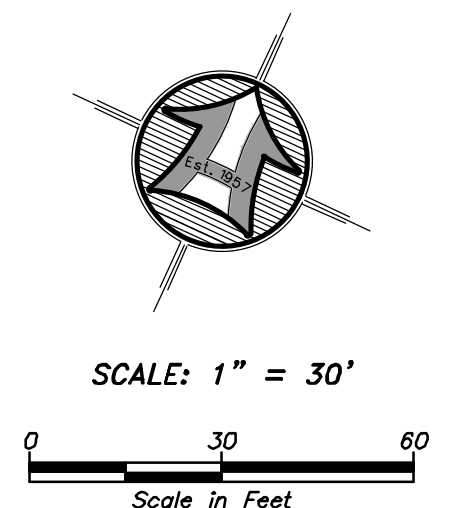


**"CAUTION"**  
 ALL EXISTING UNDERGROUND ELECTRICAL, POWER DUCT BANK AND WATERLINES TO REMAIN UNDISTURBED. THE PROPOSED BUILDING FOOTING TO BE INSTALLED ABOVE EXISTING UTILITY. STEP FOOTING AS NEEDED TO MAINTAIN FROST COVERAGE. POTHOLE FOUNDATION CROSSINGS. PRIOR TO CONSTRUCTION TO VERIFY ELEVATION. (SEE DETAIL THIS SHEET)

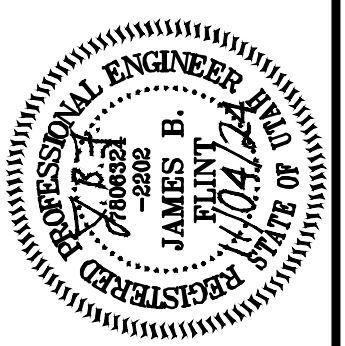


**Engineer's Notice To Contractors**  
 The existence and location of any underground utility pipes or structures shown on these plans were obtained from available information provided by others. The locations shown are approximate and shall be confirmed in the field by the contractor, so that any necessary adjustment can be made in alignment and/or grade of the proposed improvement. The contractor is required to contact the utility companies and take due precautionary measure to protect any utility lines shown, and any other lines obtained by the contractor's research, and others not of record or not shown on these plans.

**NOTICE!**  
 EXISTING UTILITIES ARE SHOWN ON PLANS FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES. THE ENGINEER BEARS NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR SHOWN INCORRECTLY.  
 Call BEFORE YOU Dig  
 1-800-662-4111  
 UNDERGROUND SERVICE



No.	Date	By	Revision
1.	11/04/24	MBJ	REVIEW COMMENTS - ADD STAMP & SIGNATURE

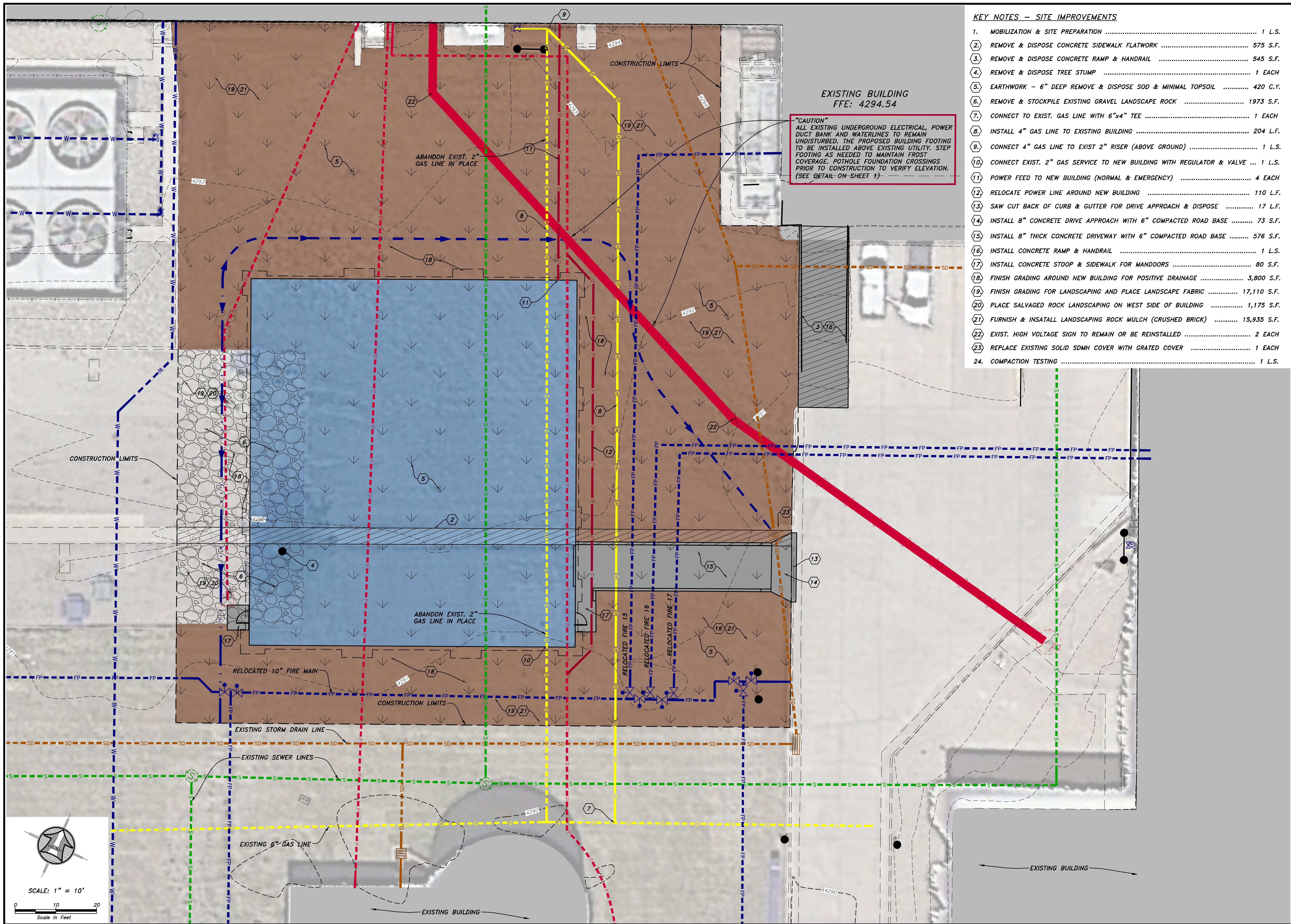


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 JOB NUMBER: 24-5-9

OVERALL SITE PLAN FOR  
**KCC STORES WAREHOUSE**  
 2150 N. Rulon White Blvd.  
 Farr West, Weber County, Utah  
 Sheet  
**C-101**



**KEY NOTES – SITE IMPROVEMENTS**

1. MOBILIZATION & SITE PREPARATION ..... 1 L.S.
2. REMOVE & DISPOSE CONCRETE SIDEWALK FLATWORK ..... 575 S.F.
3. REMOVE & DISPOSE CONCRETE RAMP & HANDRAIL ..... 545 S.F.
4. REMOVE & DISPOSE TREE STUMP ..... 1 EACH
5. EARTHWORK – 6" DEEP REMOVE & DISPOSE SOD & MINIMAL TOPSOIL ..... 420 C.Y.
6. REMOVE & STOCKPILE EXISTING GRAVEL LANDSCAPE ROCK ..... 1973 S.F.
7. CONNECT TO EXIST. GAS LINE WITH 6"x4" TEE ..... 1 EACH
8. INSTALL 4" GAS LINE TO EXISTING BUILDING ..... 204 L.F.
9. CONNECT 4" GAS LINE TO EXIST 2" RISER (ABOVE GROUND) ..... 1 L.S.
10. CONNECT EXIST. 2" GAS SERVICE TO NEW BUILDING WITH REGULATOR & VALVE ... 1 L.S.
11. POWER FEED TO NEW BUILDING (NORMAL & EMERGENCY) ..... 4 EACH
12. RELOCATE POWER LINE AROUND NEW BUILDING ..... 110 L.F.
13. SAW CUT BACK OF CURB & GUTTER FOR DRIVE APPROACH & DISPOSE ..... 17 L.F.
14. INSTALL 8" CONCRETE DRIVE APPROACH WITH 6" COMPACTED ROAD BASE ..... 73 S.F.
15. INSTALL 8" THICK CONCRETE DRIVEWAY WITH 6" COMPACTED ROAD BASE ..... 576 S.F.
16. INSTALL CONCRETE RAMP & HANDRAIL ..... 1 L.S.
17. INSTALL CONCRETE STOOP & SIDEWALK FOR MANDOORS ..... 80 S.F.
18. FINISH GRADING AROUND NEW BUILDING FOR POSITIVE DRAINAGE ..... 3,800 S.F.
19. FINISH GRADING FOR LANDSCAPING AND PLACE LANDSCAPE FABRIC ..... 17,110 S.F.
20. PLACE SALVAGED ROCK LANDSCAPING ON WEST SIDE OF BUILDING ..... 1,175 S.F.
21. FURNISH & INSATLL LANDSCAPING ROCK MULCH (CRUSHED BRICK) ..... 15,935 S.F.
22. EXIST. HIGH VOLTAGE SIGN TO REMAIN OR BE REINSTALLED ..... 2 EACH
23. REPLACE EXISTING SOLID SDMH COVER WITH GRATED COVER ..... 1 EACH
24. COMPACTION TESTING ..... 1 L.S.

Drawn By: MBI Date: 11/04/24

Designed By: \_\_\_\_\_

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Scale: 1" = 10'

Drawing File: 24-5-9 123.DWG

JOB NUMBER: 24-5-9

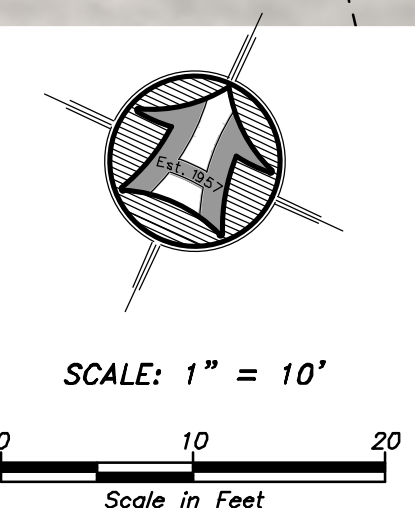
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**KCC STORES WAREHOUSE**

KEYNOTE SITE & UTILITY PLAN FOR

2150 N. Rulon White Blvd.  
Farr West, Weber County, Utah

Sheet  
**C-102**



SITE DEMOLITION PLAN FOR

## KCC STORES WAREHOUSE

2150 N. Rulon White Blvd.  
Farr West, Weber County, Utah

Sheet  
**C-103**

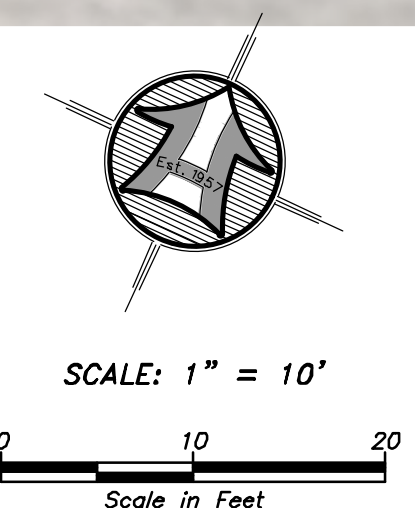
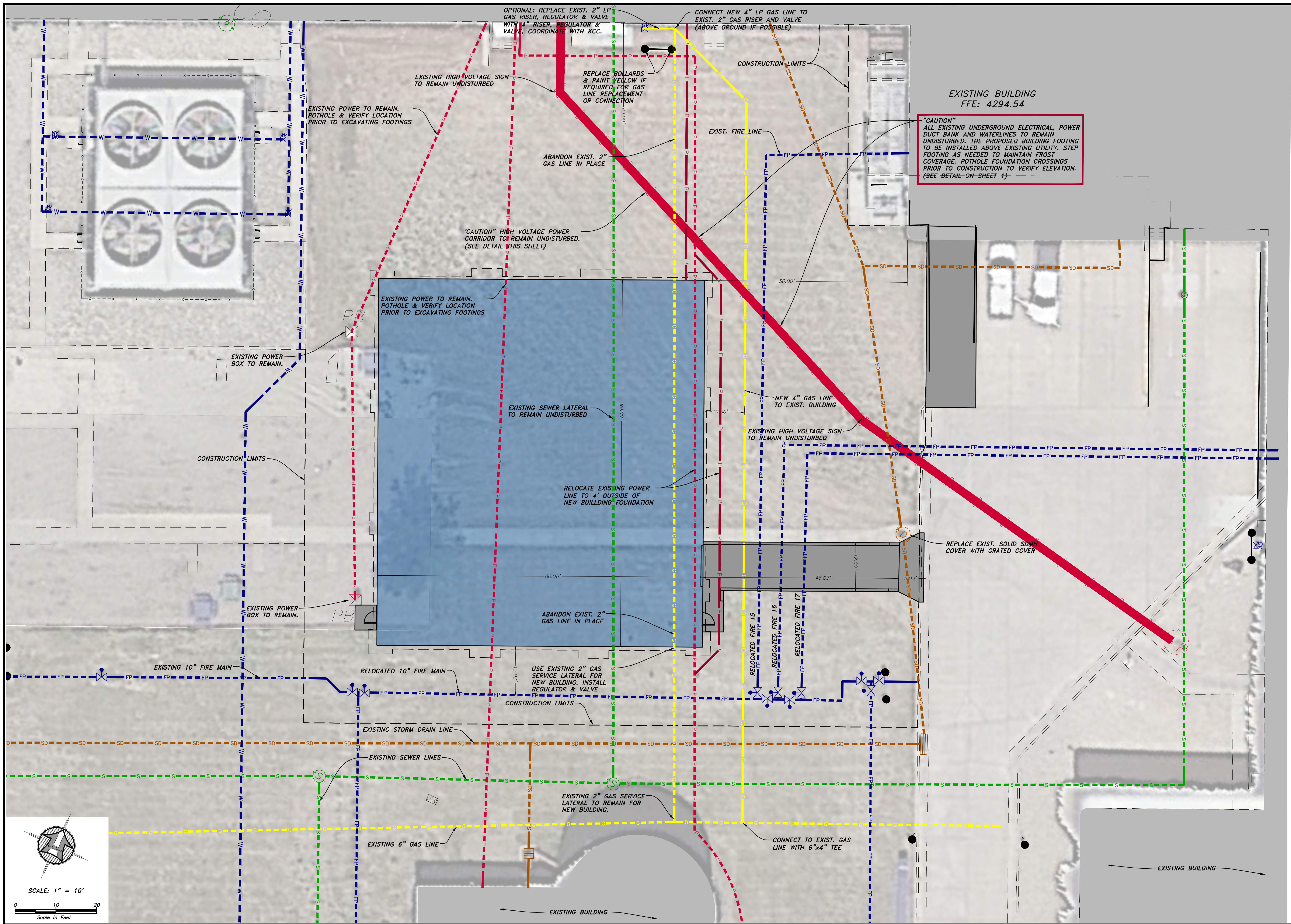
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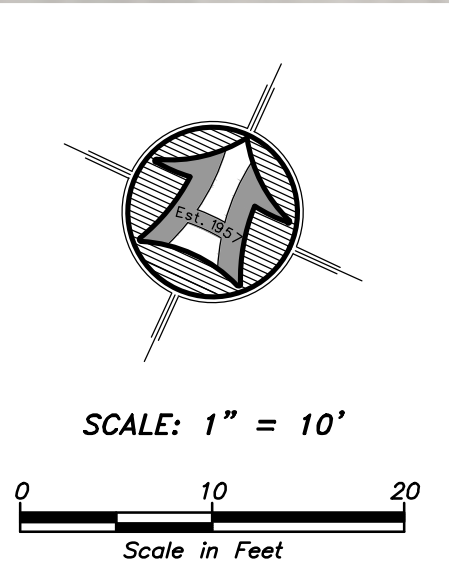
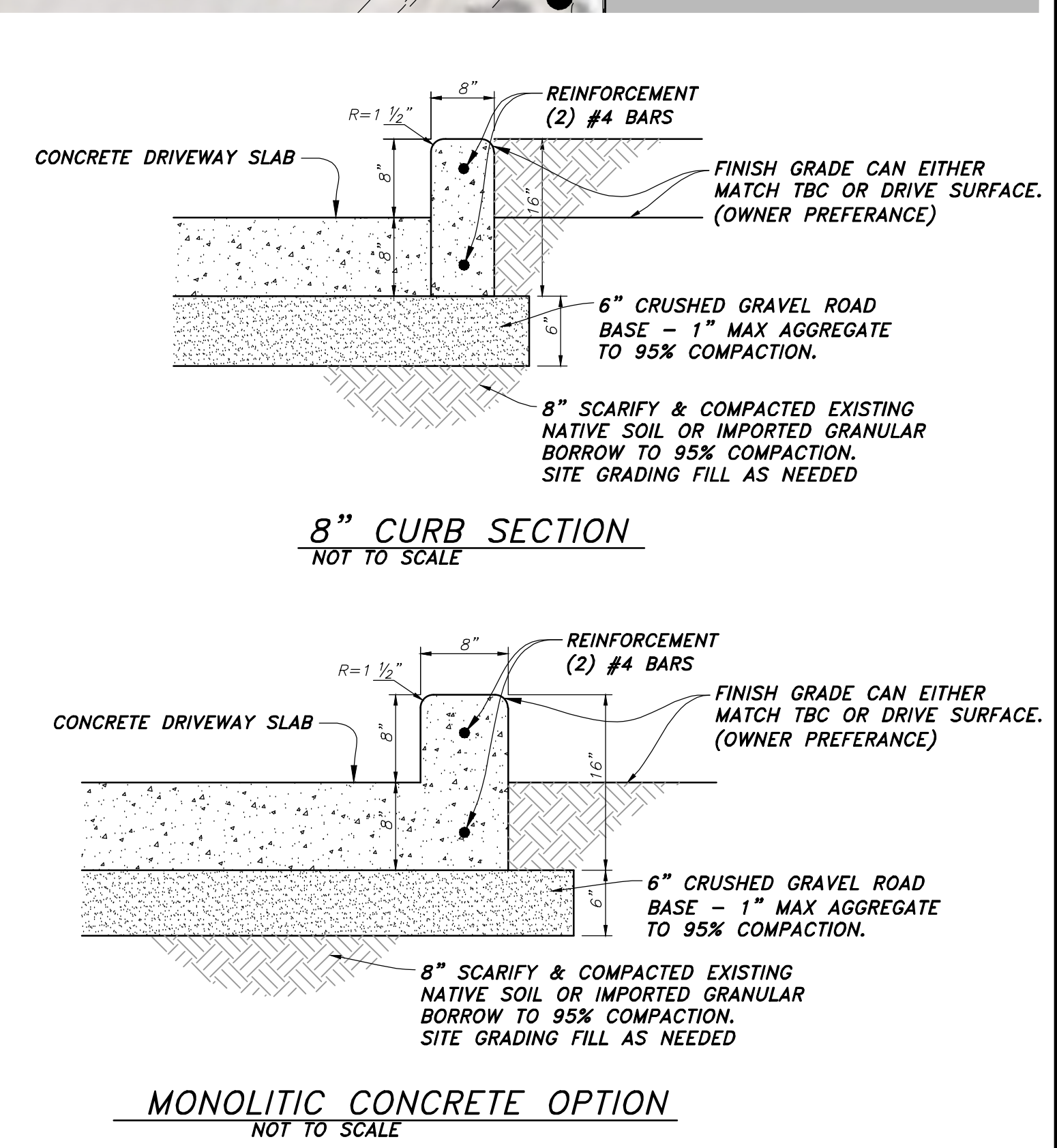
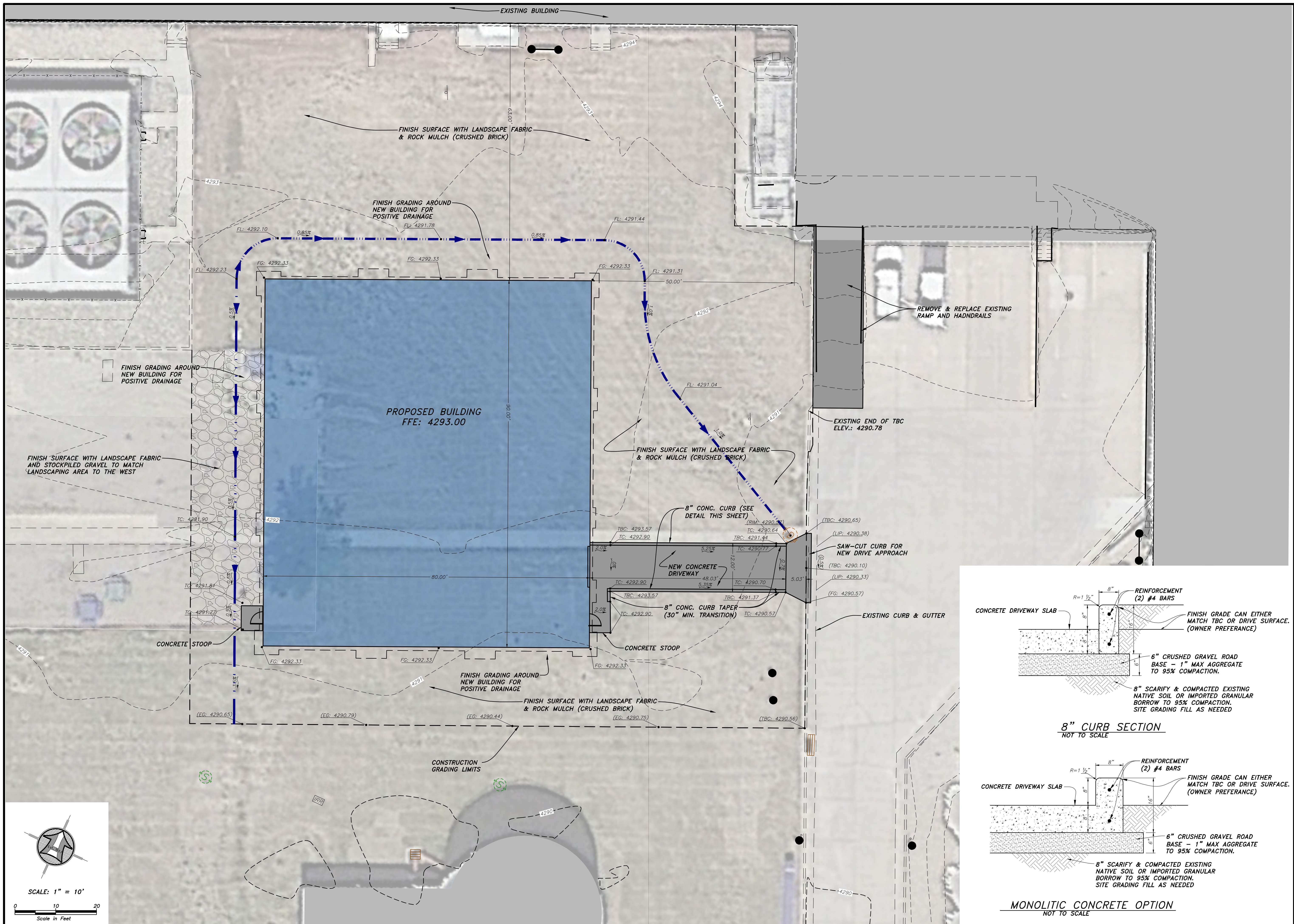
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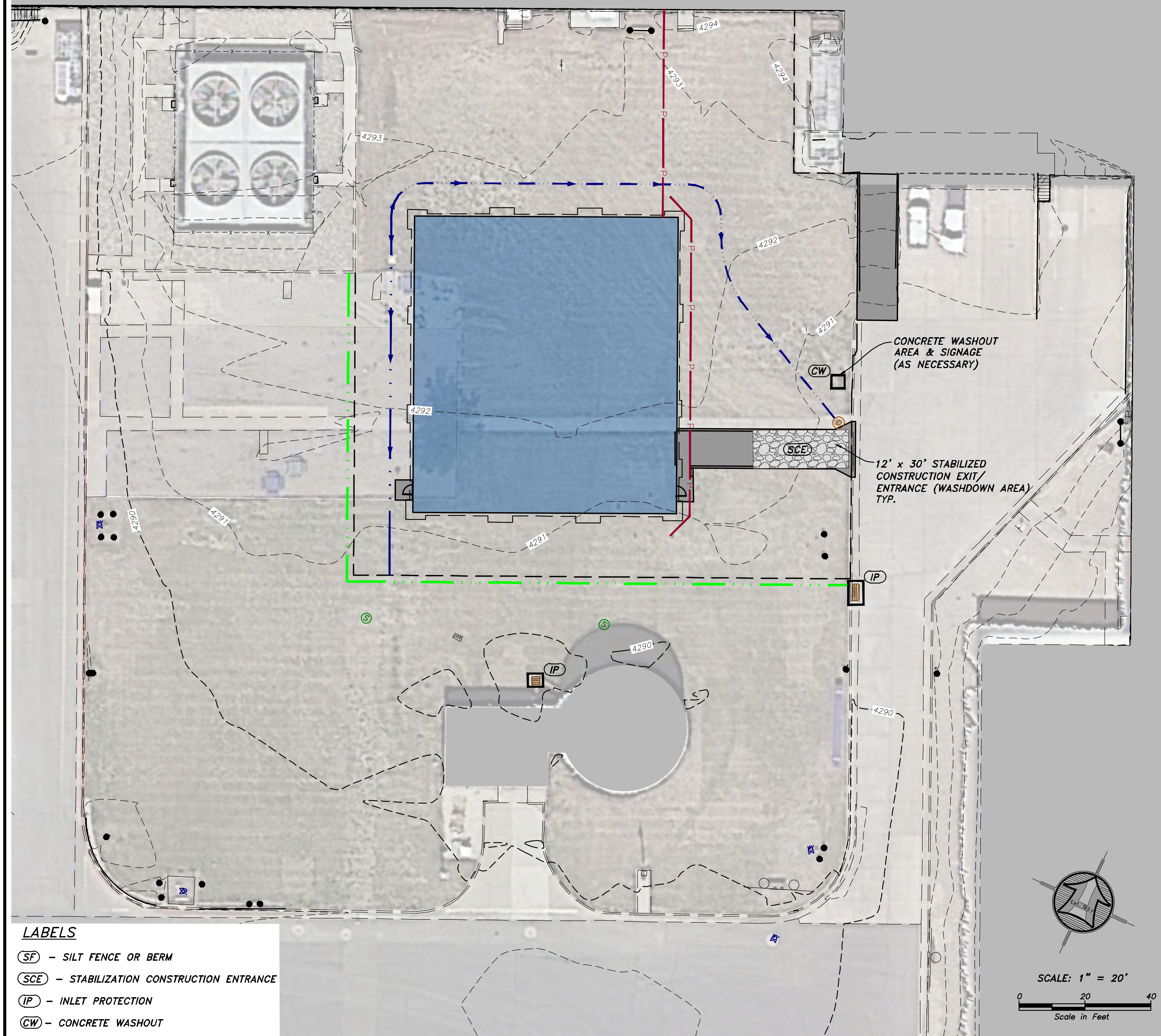
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 Approved By:  
 Scale: 1" = 10'  
 Drawing File: 24-5-9 123.DWG  
 JOB NUMBER: 24-5-9

UTILITY PLAN FOR  
**KCC STORES WAREHOUSE**  
 2150 N. Rulon White Blvd.  
 Farr West, Weber County, Utah



	MBJ Date No. By
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Drawn By: MBJ    Date: 11/08/24 Designed By: Checked By: Approved By: Scale: 1" = 10' Drawing File: 24-5-9 123.DWG JOB NUMBER: 24-5-9	
SITE & GRADING PLAN FOR <b>KCC STORES WAREHOUSE</b> 2150 N. Rulon White Blvd. Farr West, Weber County, Utah	
Sheet <b>C-105</b>	

# SWPPP PLAN



### LOCATION:

LOCATION: 2150 N. RULON WHITE BLVD. FARR WEST, WEBER COUNTY, UTAH  
SECTION 36, TOWNSHIP 7 NORTH, RANGE 2 WEST, SLB&M  
LATITUDE: 41°17'38" N LONGITUDE: 112°00'27" W  
APPROXIMATE ELEVATION: 4293'

### PROJECT DATA:

TAX ID #: 19-041-0076  
PARCEL ACREAGE: 133.48 ACRES  
KIMBERLY CLARK CORPORATION  
400 GOODYS LN STE 100,  
KNOXVILLE TN 379221932

### OVERVIEW:

THE PROJECT CONSISTS OF THE CONSTRUCTION OF A BUILDING ADDITION AND ADJACENT DRIVE ACCESS IMPROVEMENTS. CONSTRUCTION WILL ALSO CONSIST OF UTILITY CONNECTIONS AND INSTALLATION, STORM DRAIN ROUTING AND SITE GRADING. DRAINAGE FROM ON-SITE ACTIVITY IS TO BE INTERCEPTED BY THE SILT FENCE/BERM AT THE SOUTH BOUNDARY OF THE PROJECT. EXISTING DITCHES ALONG THE EAST AND WEST PROPERTY LINES WILL ALSO ACT AS BARRIERS. CONCRETE WASHOUT AREA IS LOCATED NEAR THE ENTRANCE/EXIT.

### MAINTENANCE/RECORD-KEEPING:

STRICT RECORD KEEPING IS IMPERATIVE. THE PROJECT WILL BE STATE-PERMITTED BUT PARTICULARLY UNDER THE AUSPICES OF WEBER COUNTY. KEEP INSPECTION REPORTS FORMS/FORMAT AS MANDATED BY WEBER COUNTY. A THOROUGH INSPECTION OF THE SWPPP MUST BE CONDUCTED AT LEAST EVERY 14 DAYS AND AFTER ANY PRECIPITATION OR SNOWMELT THAT CAUSES SURFACE EROSION. MAINTENANCE AND/OR MODIFICATIONS TO EROSION MEASURES MUST BE COMPLETED IN A TIMELY MANNER, BUT IN NO CASE MORE THAN 7 CALENDAR DAYS AFTER THE INSPECTION. THE ENFORCEMENT AGENCY IS WEBER COUNTY, WHO ADMINISTERS AND ENFORCES STORMWATER POLLUTION PREVENTION PLANS LOCALLY. STORMWATER MANAGEMENT ASPECTS AND PROCEDURES MAY BE MODIFIED BY PERMITTEE (AND/OR OFFICIAL REPRESENTATIVE) UPON OBTAINING WEBER COUNTY APPROVAL.

### SWPPP PHASING - ORDER OF WORK:

- PHASE 1:** CONSTRUCTION OF STABILIZED CONSTRUCTION ENTRANCE, CONCRETE WASHOUT AREA AND SIGNAGE, SILT FENCES & BERMS, AND INLET PROTECTION.
- PHASE 2:** MAINTAIN STABILIZED CONSTRUCTION ENTRANCE, CONCRETE WASHOUT AREA, SILT FENCES & BERMS, AND WATTLES DURING CONSTRUCTION AND SITE IMPROVEMENTS.
- PHASE 3:** UPON ASPHALTING, REMOVE CONSTRUCTION ENTRANCE, WATTLES, INLET PROTECTION, AND TEMPORARY SILT FENCES & BERMS.

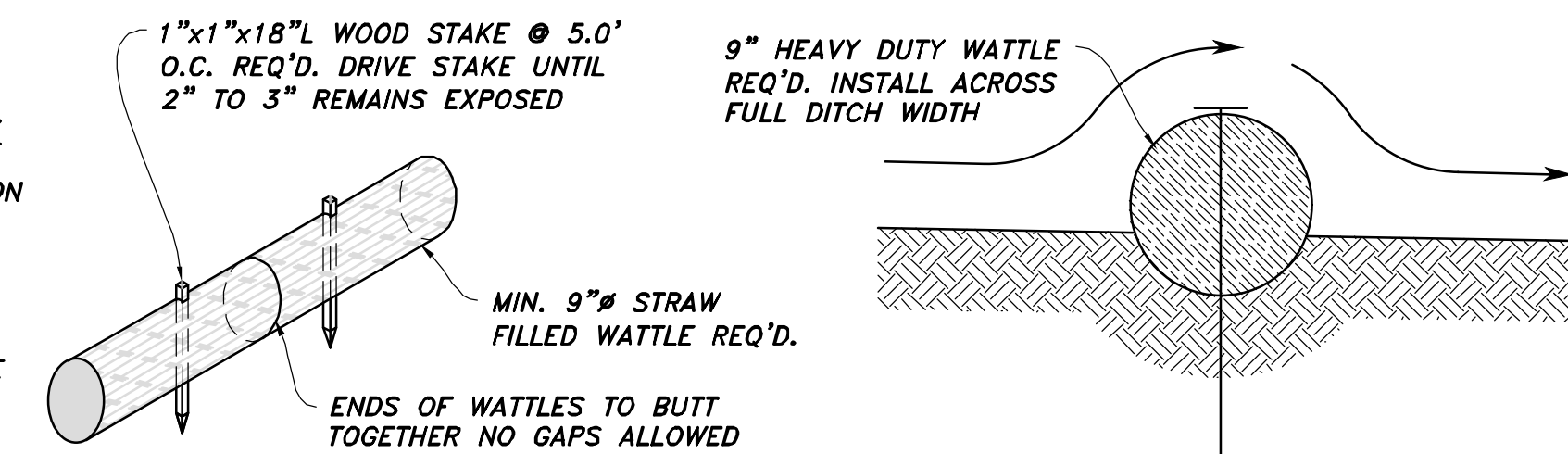


**CONCRETE WASHOUT AREA**  
NOT TO SCALE

### CONCRETE WASHOUT AREA NOTES:

INSTALLATION & MAINTENANCE PER SERVICE AGREEMENT.

NOTE: ADDING SOLVENTS, FLOCCULENTS, OR ACID TO THE WASHWATER IS PROHIBITED.



**TYPICAL WATTLE/FILTER SOCK**  
NOT TO SCALE

### LABELS

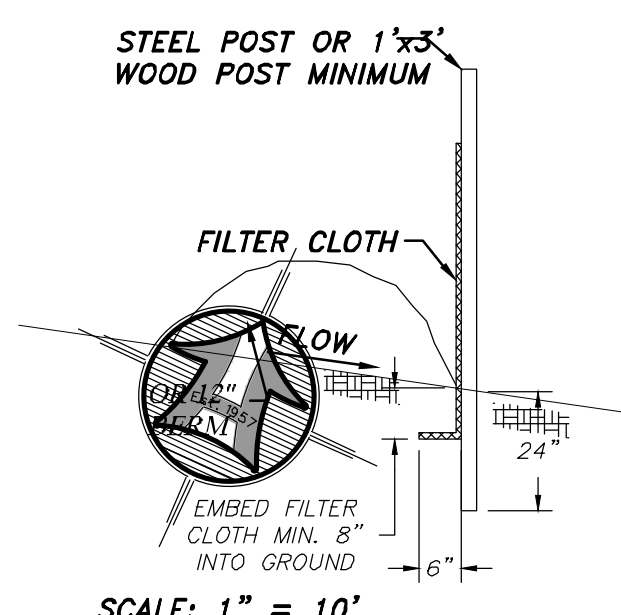
- (SF) - SILT FENCE OR BERM
- (SCE) - STABILIZATION CONSTRUCTION ENTRANCE
- (IP) - INLET PROTECTION
- (CW) - CONCRETE WASHOUT

### QUANTITIES

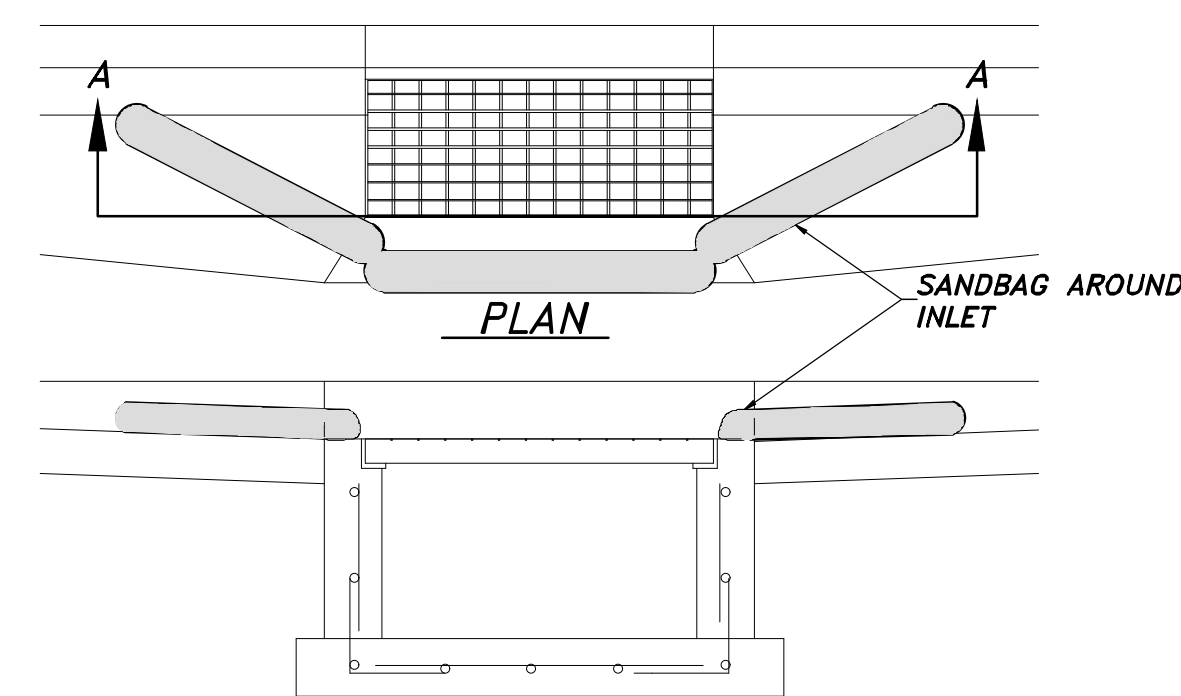
- SILT FENCE/BERM - 250 LF
- STABILIZED CONSTRUCTION ENTRANCE - 1
- INLET PROTECTION - 2
- CONCRETE WASHOUT - 1

### LEGEND

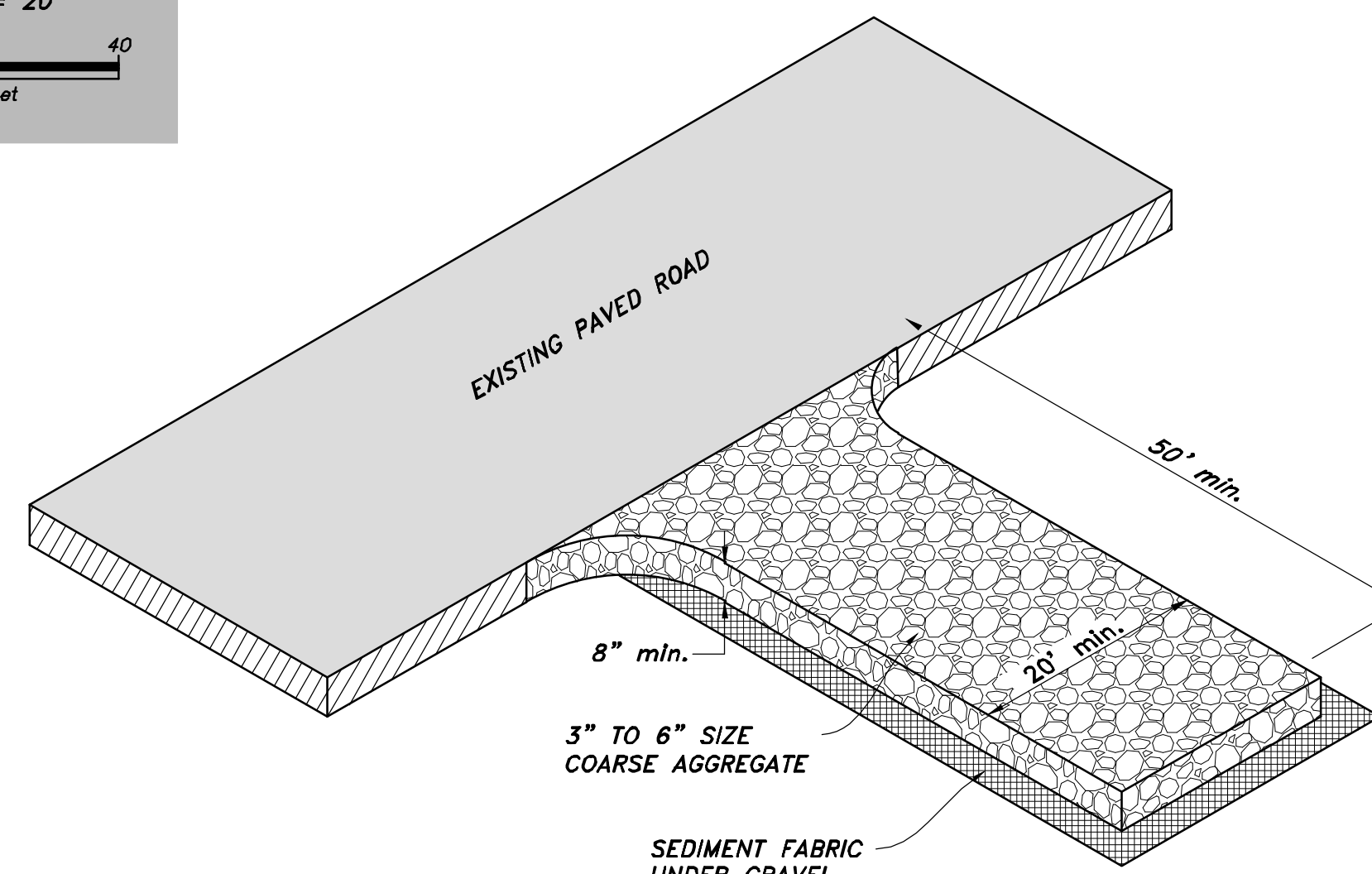
- PROPERTY BOUNDARY LINE
- SILT FENCE OR BERM REQ'D
- ▒ TRACKING PAD
- CONCRETE WASHOUT AREA & SIGNAGE
- INLET PROTECTION



**SILT FENCE DETAIL**  
NOT TO SCALE



**SECTION A**  
**CURB INLET PROTECTION DETAIL**  
NOT TO SCALE



**STABILIZED CONSTRUCTION ENTRANCE**  
NOT TO SCALE

### STABILIZED CONSTRUCTION ENTRANCE NOTES:

#### INSTALLATION/APPLICATION CRITERIA:

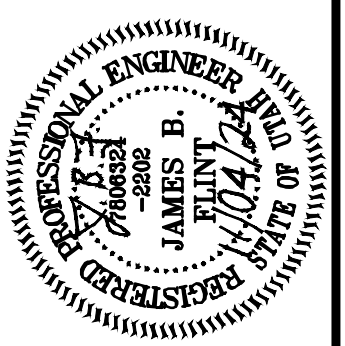
1. CLEAR AND GRUB AREA AND GRADE TO PROVIDE MAXIMUM SLOPE OF 2%.
2. COMPACT SUBGRADE AND PLACE FILTER FABRIC IF DESIRED (RECOMMENDED FOR ENTRANCES TO REMAIN FOR MORE THAN 3 MONTHS)
3. PLACE COARSE AGGREGATE, 3" TO 6" IN SIZE, TO A MINIMUM DEPTH OF 8".

#### LIMITATIONS:

1. REQUIRES PERIODIC TOP DRESSING WITH ADDITIONAL STONES.
2. SHOULD BE USED IN CONJUNCTION WITH STREET SWEEPING ON ADJACENT PUBLIC RIGHT-OF-WAY.

#### MAINTENANCE:

1. INSPECT DAILY FOR LOSS OF GRAVEL OR SEDIMENT BUILDUP.
2. INSPECT ADJACENT ROADWAY FOR SEDIMENT DEPOSIT AND CLEAN BY SWEEPING OR SHOVELING.
3. REPAIR ENTRANCE AND REPLACE GRAVEL AS REQUIRED TO MAINTAIN CONTROL IN GOOD WORKING CONDITION.
4. EXPAND STABILIZED AREA AS REQUIRED TO ACCOMMODATE TRAFFIC AND PREVENT EROSION AT DRIVEWAYS.



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JOB NUMBER: 24-5-9

EROSION CONTROL PLAN FOR  
**KCC STORES WAREHOUSE**  
2150 N. Rulon White Blvd.  
Farr West, Weber County, Utah

STRUCTURAL NOTES:

A. GENERAL

- 1. THE STRUCTURAL NOTES ARE INTENDED TO COMPLEMENT THE PROJECT SPECIFICATIONS WHICH ARE PART OF THE CONSTRUCTION DOCUMENTS. SPECIFIC NOTES AND DETAILS ON THE DRAWINGS SHALL GOVERN OVER THE STRUCTURAL NOTES AND TYPICAL DETAILS.
2. THESE DRAWINGS (AND, WHERE APPLICABLE, ACCOMPANYING WRITTEN SPECIFICATIONS) ARE THE ONLY CONTRACT DOCUMENTS PROVIDED BY ARW ENGINEERS FOR THE PROJECT REPRESENTED HEREIN. NOTHING IN ANY DIGITAL MODEL OR DIGITAL FILE RELATED TO THIS PROJECT SHALL BE TAKEN TO SUPERSEDE ANY INFORMATION SHOWN IN THESE DRAWINGS (INCLUDING, BUT NOT LIMITED TO, DIMENSIONS, SIZES, ETC.).
3. THE ARCHITECTURAL DRAWINGS ARE THE PRIME CONTRACT DRAWINGS. THE STRUCTURAL DRAWINGS ARE SUPPLEMENTARY TO AND MUST BE USED IN CONJUNCTION WITH THE ARCHITECTURAL DRAWINGS AND OTHER CONTRACT DOCUMENTS. ANY CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND STRUCTURAL ENGINEER BEFORE PROCEEDING WITH ANY WORK INVOLVED. IN CASE OF CONFLICT, FOLLOW THE MOST STRINGENT REQUIREMENT AS DIRECTED BY THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.
4. SEE SPECIFICATIONS FOR REQUIRED SUBMITTALS. SUBMITTALS SHALL BE MADE IN A TIMELY MANNER AS INDICATED IN SPECIFICATIONS. REVIEW OF SUBMITTALS BY ARW ENGINEERS IS FOR GENERAL COMPLIANCE ONLY AND IS NOT INTENDED AS APPROVAL. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL SIZES, DIMENSIONS, AND ELEVATIONS ON SUBMITTALS AS RELATED TO DESIGN DOCUMENTS. PREPARATION OF SHOP DRAWINGS FOR STRUCTURAL ELEMENTS WILL REQUIRE INFORMATION (I.E. DIMENSIONS, ETC.) FOUND IN THE ARCHITECTURAL, STRUCTURAL, AND OTHER CONSULTANT'S DRAWINGS.
5. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE SITE. IF ACTUAL CONDITIONS DIFFER FROM THOSE SHOWN ON CONTRACT DOCUMENTS, CONTRACTOR SHALL NOTIFY ARCHITECT PRIOR TO FABRICATION OR CONSTRUCTION OF ANY AFFECTED ELEMENTS.
6. THE CONTRACTOR SHALL COORDINATE AND VERIFY ALL LOCATIONS AND SIZES OF MECHANICAL EQUIPMENT OR OTHER EQUIPMENT BEFORE FABRICATING AND ERECTING STRUCTURAL ELEMENTS. SIZES AND LOCATIONS THAT DIFFER FROM THOSE SHOWN ON THE CONTRACT DOCUMENTS SHALL BE REPORTED TO THE ARCHITECT.
7. THE CONTRACTOR SHALL SUBMIT A WRITTEN REQUEST TO THE ARCHITECT FOR ARCHITECT AND/OR ENGINEER APPROVAL BEFORE PROCEEDING WITH ANY CHANGES, MODIFICATIONS, OR SUBSTITUTIONS.
8. OBSERVATION VISITS TO THE SITE BY ARW ENGINEERS FIELD REPRESENTATIVES SHALL NEITHER BE CONSTRUED AS INSPECTION NOR APPROVAL OF CONSTRUCTION.
9. DURING AND AFTER CONSTRUCTION, BUILDER AND/OR OWNER SHALL KEEP LOADS ON STRUCTURE WITHIN THE LIMITS OF DESIGN LOADS AS NOTED IN THESE DOCUMENTS.
10. TYPICAL OR SIMILAR DETAILS AND SECTIONS SHALL APPLY WHERE SPECIFIC DETAILS ARE NOT SHOWN. TYPICAL OR SIMILAR DETAILS REFER TO THE CONDITION ADDRESSED AND ARE NOT NECESSARILY DETAILS LABELED "TYPICAL" OR "SIMILAR" IN THE PLANS AND DOCUMENTS.
11. DRAWINGS AND DETAILS HAVE BEEN PREPARED WITH THE INTENT TO VISUALLY REPRESENT INFORMATION PROVIDED IN SCALED FORM; HOWEVER CONTRACTOR/SUPPLIERS SHOULD NOT SCALE PLANS OR DETAILS FOR DIMENSIONS OR INFORMATION.
12. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DESIGN AND INSTALL ADEQUATE TEMPORARY SHORING AND BRACING FOR ALL STRUCTURAL ELEMENTS UNTIL THE ENTIRE STRUCTURAL SYSTEM IS COMPLETED.
13. ENGINEER SHALL NOT BE RESPONSIBLE FOR ACTIVITIES UNDER CONTROL OF THE CONTRACTOR SUCH AS CONSTRUCTION SITE SAFETY MEANS, METHODS AND SEQUENCING OF CONSTRUCTION. ENGINEER SHALL NOT BE RESPONSIBLE FOR FABRICATION, ERECTION AND CONSTRUCTION REQUIREMENTS AS PRESCRIBED BY OSHA OR OTHER REGULATORY AGENCIES REGARDLESS OF INDICATIONS IN THESE DOCUMENTS.
14. NOTICE OF COPYRIGHT: THESE STRUCTURAL DRAWINGS ARE HEREBY COPYRIGHTED BY ARW ENGINEERS. ALL RIGHTS RESERVED. THESE DOCUMENTS DEFINE A STRUCTURE AND ARE INSTRUMENTS OF SERVICE. FOR ONE USE ONLY. REPRODUCTION AND DISTRIBUTION OF THESE DRAWINGS IS ONLY ALLOWED AS REQUIRED FOR REGULATORY AGENCIES AND FOR CONVEYANCE OF INFORMATION TO PARTIES INVOLVED IN THE CONSTRUCTION OF THIS PROJECT. THESE DOCUMENTS SHALL NOT BE REPRODUCED OR COPIED, IN PART OR WHOLE BY ANY PARTY FOR USE IN PREPARATION OF SHOP DRAWINGS OR OTHER SUBMITTALS.
15. WHERE THE WORD "SHALL" OCCURS IN THESE DRAWINGS AND ANY ACCOMPANYING SPECIFICATIONS, IT IS CONSIDERED A MANDATORY OBLIGATION AND SYNONYMOUS WITH THE PHRASE "HAS DUTY TO".

B. STATEMENT OF SPECIAL INSPECTIONS AND SPECIAL INSPECTIONS

- 1. THE DESIGNATED SEISMIC/WIND SYSTEMS AND SEISMIC/WIND-FORCE-RESISTING SYSTEMS THAT ARE SUBJECT TO SPECIAL INSPECTIONS IN ACCORDANCE WITH IBC SECTION 1705.12 AND 1705.13 ARE IDENTIFIED ON THESE DOCUMENTS WITH A CIRCLE "L". ALL OTHER ITEMS REQUIRING SPECIAL INSPECTION ARE IDENTIFIED IN THE SPECIAL INSPECTION SCHEDULE ON SHEET S011 AND S012.
2. SPECIAL INSPECTIONS AND TESTING ARE TO BE PROVIDED AS REQUIRED BY IBC SECTIONS 1704 THROUGH 1705 AND OTHER APPLICABLE SECTIONS OF THE IBC. THE TYPE AND FREQUENCY OF TESTING AND SPECIAL INSPECTIONS SHALL BE AS NOTED IN THE SPECIAL INSPECTION SCHEDULE. JOB SPECIFICATIONS, AND ACCORDANCE WITH IBC SECTION 110 AND CHAPTER 17. CONTRACTOR SHALL COORDINATE AND COOPERATE WITH REQUIRED INSPECTIONS.
3. ALL TESTING AND SPECIAL INSPECTION SHALL BE PROVIDED BY A QUALIFIED INDEPENDENT SPECIAL INSPECTION AGENCY IN ACCORDANCE WITH IBC 1704 AND AS OUTLINED IN THE JOB SPECIFICATIONS. REPORTS OF FINDINGS OR DISCREPANCIES SHALL BE NOTED AND FORWARDED TO THE CONTRACTOR, ARCHITECT, ENGINEERS, AND BUILDING OFFICIAL IN A TIMELY MANNER.
4. STRUCTURAL OBSERVATION VISITS SHALL BE PERFORMED BY A REPRESENTATIVE FROM ARW ENGINEERS IN ACCORDANCE WITH THE CONTRACT AS NEEDED TO OBSERVE THE CONSTRUCTION OF CRITICAL BUILDING ELEMENTS (I.E. FOOTINGS, BRACED FRAMES, MOMENT FRAMES, DRAG STRUTS AND THEIR CONNECTIONS, COLLECTORS, AND ROOF AND FLOOR DIAPHRAGMS). STRUCTURAL OBSERVATION REPORTS FOR EACH VISIT SHALL BE SENT DIRECTLY TO THE ARCHITECT FOR DISTRIBUTION TO THE CONTRACTOR AND BUILDING OFFICIAL. STRUCTURAL OBSERVATION VISITS SHALL NEITHER BE CONSTRUED AS SPECIAL INSPECTION NOR APPROVAL OF COMPLETED CONSTRUCTION.
5. IN ACCORDANCE WITH IBC 1704.4, THE CONTRACTOR SHALL SUBMIT A WRITTEN CONTRACTOR'S STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND OWNER. THE STATEMENT SHALL BE SUBMITTED PRIOR TO THE CONSTRUCTION OF ANY SEISMIC/WIND-FORCE-RESISTING SYSTEM, DESIGNATED SEISMIC/WIND SYSTEM, OR COMPONENT IDENTIFIED IN THESE DOCUMENTS WITH A CIRCLE "L".

C. BASIS OF DESIGN

- 1. GOVERNING BUILDING CODE: INTERNATIONAL BUILDING CODE (IBC) 2021
RISK CATEGORY: D
2. LOADING ON FOUNDATIONS AS PROVIDED BY THE PRE ENGINEERED BUILDING MANUFACTURER

D. FOUNDATION

- 1. GENERAL
a. DESIGN SOIL PRESSURE: 2500 PSF
b. SOILS REPORT BY: GSH GEOTECHNICAL
REPORT #: 0115-117-21
DATED: FEBRUARY 14, 2022
c. SOIL PREPARATION UNDER FOUNDATIONS AND SLABS-ON-GRADE SHALL BE IN ACCORDANCE WITH THE SOILS REPORT.
d. TOP OF FOOTING ELEVATIONS SHOWN ON THE FOOTING AND FOUNDATION PLAN ARE BASED ON PRELIMINARY GRADING INFORMATION AND SHALL BE VERIFIED PRIOR TO CONSTRUCTION. STEPS WHERE SHOWN ARE AT APPROXIMATE LOCATIONS. ACTUAL STEP LOCATIONS SHALL BE AT THE CONTRACTOR'S DISCRETION BASED UPON FIELD CONDITIONS. ALL EXTERIOR FOUNDATIONS SHALL BEAR A MINIMUM OF 30 INCHES BELOW LOWEST ADJACENT FINAL GRADE.
e. ALL WALLS (EXCEPT CANTILEVERED RETAINING WALLS) SHALL BE ADEQUATELY BRACED AGAINST LATERAL MOVEMENT PRIOR TO BACKFILLING. DESIGN AND ERECTION OF BRACING/SHORING SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. BRACING SHALL REMAIN IN PLACE UNTIL SUPPORTING STRUCTURAL ELEMENTS ARE IN PLACE AND HAVE ATTAINED FULL STRENGTH.
f. UNLESS NOTED OTHERWISE, ALL FOOTINGS AT COLUMNS SHALL BE CENTERED BELOW COLUMNS.
g. UNLESS NOTED OTHERWISE, ALL FOOTINGS SHALL HAVE VERTICAL FACES FORMED WITH STANDARD FORMING MATERIALS (WOOD, METAL, ETC.), WITH PRIOR APPROVAL OF ARCHITECT AND ENGINEER. CONCRETE FOR FOOTINGS CAN BE PLACED IN EXCAVATED SOIL "FORMS" PROVIDED THAT THE DIMENSIONS ARE INCREASED 3" ON ALL SIDES.
h. UNLESS NOTED AND DETAILED OTHERWISE, NO PIPES, DUCTS, CONDUITS, NON-STRUCTURAL ITEMS, ETC. SHALL BE BURIED BELOW OR EMBEDDED IN FOOTINGS/ FOUNDATION WALLS. SEE TYPICAL DETAIL FOR CONDITIONS WHERE THESE ITEMS CROSS OR RUN PARALLEL TO FOOTINGS/ FOUNDATION WALLS.

E. CONCRETE

- 1. ALL CONCRETE MIX DESIGNS SHALL COMPLY WITH THE PROJECT SPECIFICATIONS AND THE REQUIREMENTS LISTED BELOW:
EXPOSURE CATEGORY: F S W C
f'c AT 28 DAYS (PSI): 3000
MAX. AIR CONTENT (%): ---
MAX. AGGREGATE SIZE: ---
Interior Slabs on Grade: F0 S0 W0 C0
Interior Slabs on Metal Deck: F0 S0 W0 C0
FTG / Grade Beams / FDN Walls: F0 S0 W1 C0
FTG / Grade Beams / FDN Walls: F2 S0 W1 C1

Table with columns: NOMINAL MAXIMUM AGGREGATE SIZE, IN.; TARGET AIR CONTENT, PERCENT (F1, F2 AND F3)

- 2. WATER USED IN MIXING CONCRETE SHALL CONFORM TO ASTM C1602.
3. NO CONDUIT, PIPES, DUCTS, SLEEVES, ETC. SHALL BE PLACED IN STRUCTURAL CONCRETE UNLESS SPECIFICALLY DETAILED OR APPROVED BY THE STRUCTURAL ENGINEER. NO ALUMINUM PRODUCTS SHALL BE EMBEDDED IN CONCRETE. PENETRATIONS THRU STRUCTURAL CONCRETE ELEMENTS MUST BE APPROVED BY THE ENGINEER AND SHALL BE BUILT INTO THE ELEMENT PRIOR TO CONCRETE PLACEMENT.
4. REFER TO ARCHITECTURAL DRAWINGS FOR MOLDS, GROOVES, ORNAMENTS, ETC. TO BE CAST IN TO CONCRETE, AND FOR EXTENT AND LOCATION OF DEPRESSIONS, CURBS, RAMPS, ETC.
5. UNLESS NOTED OTHERWISE, MINIMUM REINFORCING IN ALL CONCRETE FOUNDATION WALLS SHALL BE AS FOLLOWS:
THICKNESS TOP & BOTTOM BARS VERTICAL HORIZONTAL
6" (1) #5 #4 AT 18" O.C. #4 AT 16" O.C.
8" (2) #5 #4 AT 18" O.C. #4 AT 12" O.C.
10" (2) #5 #4 AT 12" O.C. #5 AT 12" O.C.
12" (2) #5 #4 AT 18" O.C. EA FACE #4 AT 16" O.C. EA FACE
6. UNLESS NOTED OTHERWISE, CONCRETE SLABS ON EARTH SHALL BE REINFORCED AS FOLLOWS:
4" THICK - #3 AT 18" O.C. EACH WAY
6" THICK - #4 AT 18" O.C. EACH WAY
8" THICK - #4 AT 12" O.C. EACH WAY
10" THICK - #4 AT 12" O.C. EACH WAY, TOP & BOTTOM
REINFORCING SHALL BE CONTINUOUSLY SUPPORTED AT 36" O.C. MAXIMUM SPACING.
7. UNLESS NOTED OTHERWISE, FOR NON-DETAILED OPENINGS IN CONCRETE WALLS LARGER THAN 12" AND SMALLER THAN 24" IN ANY DIRECTION ADD (2) #5 BARS ON ALL SIDES IN ADDITION TO REGULAR WALL REINFORCING AND EXTEND 24" EACH WAY BEYOND OPENING. IF 24" IS NOT AVAILABLE ON EVERY SIDE, NOTIFY STRUCTURAL ENGINEER FOR FURTHER DIRECTION. OPENINGS SHALL HAVE A MINIMUM OF 12" OF CONCRETE ABOVE THE OPENING, TYP.
8. CONSTRUCTION JOINTS NOT SHOWN ON THE PLANS SHALL BE MADE AND LOCATED SO AS TO NOT IMPAIR THE STRENGTH OF THE STRUCTURE AND AS APPROVED BY THE STRUCTURAL ENGINEER. ALL STEEL REINFORCING SHALL BE CONTINUOUS THROUGH COLD JOINTS UNLESS NOTED OTHERWISE. SEE TYPICAL DETAILS FOR COLD/CONSTRUCTION JOINTS FOR SLABS ON GRADE.
9. WHERE NEW CONCRETE IS PLACED AGAINST PREVIOUSLY HARDENED CONCRETE, THE JOINT SHALL BE CLEAN AND FREE OF LAITANCE. IMMEDIATELY BEFORE NEW CONCRETE IS PLACED, CONSTRUCTION JOINTS SHALL BE PREWETTED AND STANDING WATER REMOVED.
10. WHERE GRADE BEAMS, HAIRPINS, OR SLAB REINFORCING IS DOWELED TO THE FOUNDATION WALLS IN PRE-ENGINEERED METAL BUILDINGS, THE GRADE BEAMS, HAIRPINS, OR SLAB REINFORCING SHALL BE INSTALLED AND THE CONCRETE THAT ENCASES THEM SHALL BE PLACED PRIOR TO THE ERECTION OF THE METAL BUILDING.

F. ANCHOR BOLTS/EMBEDDED BOLTS

- 1. ALL ANCHOR BOLTS SHALL HAVE ASTM A-563 HEAVY HEX NUT AND ASTM F-436 WASHERS AT STANDARD OR OVERSIZED HOLES PER AISC SPECIFICATION TABLE J3.3. WHERE HOLE SIZES DO NOT COMPLY WITH THE LIMITATIONS FOR OVERSIZED HOLES THE STRUCTURAL ENGINEER SHALL BE NOTIFIED TO DETERMINE STEEL PLATE WASHER REQUIREMENTS. ANCHOR BOLTS SHALL COMPLY WITH THE FOLLOWING:
a. AT BRACED FRAMES & MOMENT RESISTING FRAMES - ASTM F1554 GRADE 105 HEADED BOLTS (ASTM F1554 THREADED ROD OF SAME GRADE MAY BE USED WITH DOUBLE NUT AND WASHER.)
b. AT ALL OTHER ANCHOR BOLTS (UNLESS NOTED OTHERWISE) - ASTM F1554 GRADE 36 HEADED BOLTS. (ASTM A36 THREADED ROD MAY BE USED WITH DOUBLE NUT AND WASHER.)
2. SEE TYPICAL ANCHOR BOLT DETAIL FOR DEFINITIONS OF EMBEDMENT LENGTH, ETC.
3. FURNISH TEMPLATES AND OTHER DEVICES AS NECESSARY FOR PRESETTING ALL BOLTS PRIOR TO PLACING CONCRETE AND/OR GROUT.
4. IF THREADED RODS ARE USED AS PERMITTED ABOVE, THEY SHALL BE CLEAR OF SOIL AND DIRT.
5. WHERE REQUIRED FOR ERECTION, HOLES LARGER THAN OVERSIZED MAY BE PERMITTED WITH THE USE OF STEEL PLATE WASHERS AT THE DISCRETION OF THE STRUCTURAL ENGINEER.

G. REINFORCING STEEL

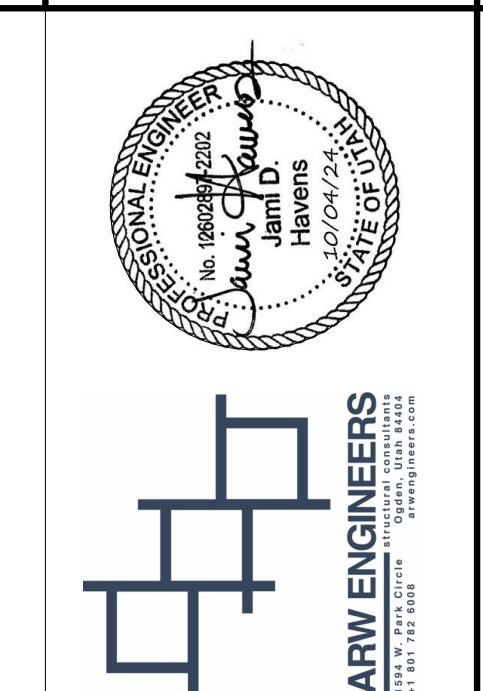
- 1. REINFORCING BAR STRENGTH REQUIREMENTS:
a. ALL REINFORCING BARS EXCEPT AS INDICATED IN NOTE b, SHALL CONFORM TO ASTM STANDARD A-615 GRADE 60 AND ALL WELDED WIRE FABRIC SHALL CONFORM TO ASTM STANDARD A-1064 AND SHALL BE SUPPLIED IN FLAT SHEETS. ADEQUATELY TIE AND SUPPORT ALL REINFORCING STEEL AS SPECIFIED BY ACI 117, TO MAINTAIN EXACT REQUIRED POSITION.
2. ALL REINFORCING STEEL SHALL BE TIED IN PLACE AND ADEQUATELY SUPPORTED PRIOR TO PLACING CONCRETE. WET STABBING OF ANY REINFORCING STEEL IS NOT PERMITTED, UNLESS SPECIFICALLY DETAILED OTHERWISE OR APPROVED BY THE ENGINEER.
3. ALL FIELD BENT DOWELS SHALL BE GRADE 40 WITH SPACING INDICATED REDUCED BY 1/3.
4. UNLESS NOTED OTHERWISE, REINFORCEMENT SHALL HAVE THE FOLLOWING CONCRETE COVERAGE:
a. CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH ..... 3"
b. EXPOSED TO EARTH OR WEATHER:
1. #6 & LARGER ..... 2"
2. #5 & SMALLER ..... 1-1/2"
c. NOT EXPOSED TO WEATHER OR EARTH:
1. SLABS, WALLS, JOISTS, #11 & SMALLER ..... 3/4"
2. BEAMS, COLUMNS: MAIN REINFORCING OR TIES ..... 1-1/2"
d. SLAB ON GRADE:
1. PLACE REINFORCING AT CENTER OF SLAB UNLESS INDICATED OTHERWISE.
2. EXCEPT WHERE NOTED ON PLANS OR DETAILS CONTINUOUS REINFORCEMENT SHALL BE SPLICED AT POINTS OF MINIMUM STRESS BY LAPPING PER THE REBAR LAP SCHEDULE.
5. REINFORCING STEEL MAY BE SPLICED WITH MECHANICAL COUPLERS THAT HAVE A TENSION CAPACITY OF AT LEAST 125% OF THE STRENGTH OF THE BAR. MECHANICAL COUPLERS SHALL BE A POSITIVE CONNECTING TYPE COUPLER, AND SHALL BE INSTALLED IN ACCORDANCE WITH AN APPROVED ICC RESEARCH REPORT. WHERE THESE ARE USED, SPLICES ON ADJACENT BARS SHALL BE STAGGERED AT LEAST 24 INCHES ALONG THE LENGTH OF THE BARS.
6. ALL VERTICAL REINFORCING IN STRUCTURAL ELEMENTS ABOVE SHALL BE SPLICED WITH MATCHING DOWELS EMBEDDED WITHIN THE FOOTINGS OR STRUCTURE BELOW. SPLICE LENGTHS SHALL COMPLY WITH REBAR LAP SCHEDULE. DOWELS INTO FOOTINGS SHALL TERMINATE WITH A STANDARD HOOK, AND SHALL EXTEND TO WITHIN 4" OF THE BOTTOM OF THE FOOTING, BUT NEED NOT EXTEND MORE THAN 20" INTO FOOTING.
7. DO NOT WELD REINFORCING.
8. REINFORCING BARS, TIES, AND TENDONS SHALL BE SUPPORTED BY NYLON CONES, PLASTIC-COATED TIE-WIRES, OR PLASTIC-COATED CHAIRS. REINFORCING IN FOOTINGS IS PERMITTED TO BE SUPPORTED ON CONCRETE DOBIES.
9. UNLESS NOTED OTHERWISE, HOOKS, STIRRUPS, TIES, AND OTHER BENDS IN REINFORCING STEEL SHALL MEET THE STANDARDS SET FORTH IN ACI 318/318R-19, UNLESS OTHERWISE PERMITTED BY THE ENGINEER. ALL REINFORCEMENT SHALL BE BENT COLD. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT, EXCEPT AS SHOWN ON THESE DRAWINGS OR OTHERWISE PERMITTED BY THE ENGINEER.
10. UNLESS SPECIFICALLY NOTED AND/OR DETAILED IN THE STRUCTURAL DRAWINGS CONDUIT SHALL NOT BE IN CONTACT WITH REINFORCING STEEL.

(STRUCTURAL NOTES CONTINUED ON SHEET S002)

LEGEND OF SYMBOLS AND ABBREVIATIONS

Legend of symbols and abbreviations including: AB = ANCHOR BOLT, ARCH = ARCHITECT, BLW = BELOW, BN = BOUNDARY NAILING, BS = BOUNDARY SCREW, BRB = BUCKLING RESTRAINED BRACE, BRBF = BUCKLING RESTRAINED BRACE FRAME, CJP = COMPLETE JOINT PENETRATION, CL = CENTERLINE, CMU = CONCRETE MASONRY UNIT, COL = COLUMN, CONC = CONCRETE, CP = CONCRETE PIER, DC = DEMAND CRITICAL, DIA / Ø = DIAMETER, DBA = DEFORMED BAR ANCHOR, DBE = DECK BEARING ELEVATION, ELEV = ELEVATION, EN = EDGE NAILING, EOD = EDGE OF DECK, FDN = FOUNDATION, FTG = FOOTING, FFE = FINISHED FLOOR ELEVATION, GB = CONCRETE GRADE BEAM, HSA = HEADED STUD ANCHOR, JBE = JOIST BEARING ELEVATION, KB = KICKER BRACE, MAX = MAXIMUM, MB = MASONRY BEAM, MC = MASONRY COLUMN, MECH = MECHANICAL, MEZZ = MEZZANINE, MIN = MINIMUM, MJ = MASONRY JAMB, MW = MASONRY WALL, NS, FS = NEAR SIDE, FAR SIDE, OR APPROVED EQUAL, OPP = OPPOSITE, PAF = POWDER ACTUATED FASTENER, PL = PLATE, REINF = REINFORCING, REQ'D = REQUIRED, SIM = SIMILAR, SSH = STEEL STUD HEADER, SSJ = STEEL STUD JAMB, SSS = STEEL STUD SILL, SSW = STEEL STUD WALL, TOB = TOP OF BEAM ELEVATION, TOC = TOP OF CONCRETE SLAB, TOF = TOP OF FOOTING, TOG = TOP OF GIRDER ELEVATION, TOM = TOP OF MASONRY, TOS = TOP OF STEEL ELEVATION, TYP = TYPICAL, UNO = UNLESS NOTED OTHERWISE.

Structural Sheet Index table with columns: SHEET NUMBER, SHEET NAME. Rows include S001 STRUCTURAL NOTES, S002 STRUCTURAL NOTES, S010 SCHEDULES, S011 SCHEDULES, S012 SCHEDULES, S101 FOOTING & FOUNDATION PLAN, S201 TYPICAL DETAILS.



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Table with columns: Rev., Date, Description. Contains revision information.

Designed by: JDH
Drawn by: LEE
Reviewed by:
Checked by:
Submitted by:
Approver:
Submitted: 10.04.2024
File:
Scale: As indicated
Project Number: EA24022P

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2010 N. RULON WHITE BLVD.
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PERMIT SUBMITTAL
STRUCTURAL NOTES

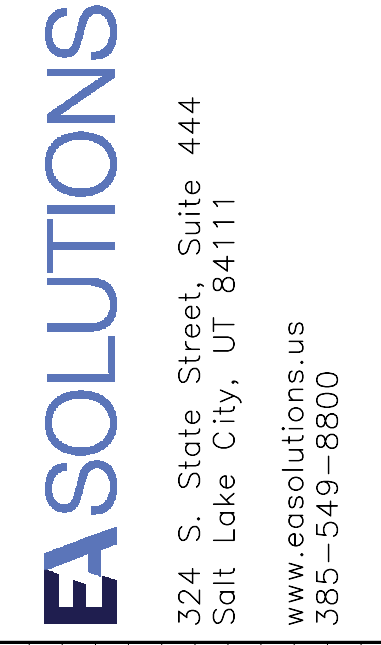
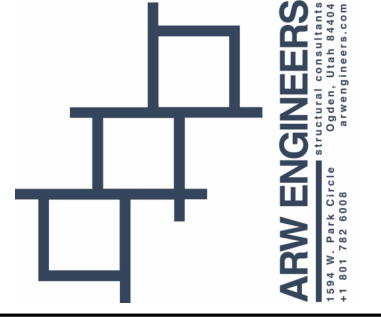
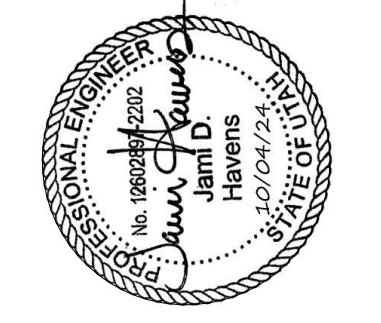
SHEET NUMBER
S001

D

C

B

A

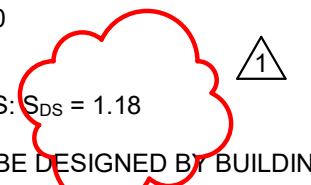


**I. NON-STRUCTURAL DELEGATED DESIGNS AND DEFERRED SUBMITTALS**

- NON-STRUCTURAL DELEGATED DESIGNS AND SUBSEQUENT DEFERRED SUBMITTALS ARE FOR ITEMS NOT INCLUDED IN THE STRUCTURAL DELEGATED DESIGN SECTION. THESE ARE ITEMS THAT ARE NOT CRITICAL TO THE OVERALL PERFORMANCE OF THE STRUCTURAL SYSTEM BUT THAT IMPART LOADS AND FORCES TO THE STRUCTURAL SYSTEM.
- NON-STRUCTURAL DEFERRED SUBMITTALS SHALL BEAR THE STAMP AND SIGNATURE OF THE DESIGN PROFESSIONAL RESPONSIBLE FOR THE DESIGN.
- ARW ENGINEERS WILL REVIEW NON-STRUCTURAL DEFERRED SUBMITTALS TO VERIFY DESIGN CRITERIA IS COMPLIANT WITH THE APPROVED CONSTRUCTION DOCUMENTS.
- IF THE STRUCTURAL DRAWINGS INCLUDE LOADS TO ACCOMMODATE NON-STRUCTURAL ELEMENTS, THE CONTRACTOR SHALL SUBMIT DOCUMENTATION INDICATING THAT THE NON-STRUCTURAL ELEMENTS COMPLY WITH THE LOADING CRITERIA PROVIDED HEREIN. SUCH DOCUMENTATION SHALL BEAR THE STAMP AND SIGNATURE OF THE DESIGN PROFESSIONAL RESPONSIBLE FOR THE DESIGN.
- WHEN THE NON-STRUCTURAL DEFERRED SUBMITTAL INDICATES THAT THE ELEMENT WILL IMPART FORCES IN EXCESS OF LOADS THAT ARE INDICATED ON THE STRUCTURAL DRAWINGS, THE CONTRACTOR SHALL SUBMIT A DETAILED GRAPHICAL REPRESENTATION OF THOSE DESIGN LOADS, INCLUDING MAGNITUDE, AND LOCATION. THE GRAPHIC SHALL BE ACCOMPANIED BY DOCUMENTATION INDICATING THAT THE NON-STRUCTURAL ELEMENT DESIGN COMPLIES WITH THE LOADING CRITERIA PROVIDED HEREIN. THE LETTER SHALL BEAR THE STAMP AND SIGNATURE OF THE DESIGN PROFESSIONAL RESPONSIBLE FOR THE DESIGN.
- NON-STRUCTURAL DELEGATED DESIGN ITEMS REQUIRING DEFERRED SUBMITTALS SHALL INCLUDE, BUT ARE NOT LIMITED TO:
  - SEISMIC BRACING OF ALL ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL ITEMS WHERE REQUIRED BY THE MOST RECENT VERSION OF ASCE 7 AND THE PROJECT CONTRACT DOCUMENTS.

**J. PRE-ENGINEERED BUILDING NOTES**

- PRE-ENGINEERED METAL BUILDING, FRAME, ROOF, WALL PANELS, ANCHOR BOLTS, ETC. SHALL BE DESIGNED AND DETAILED BY THE MANUFACTURER. SPECIFICATIONS, CALCULATIONS, REACTIONS AT FOUNDATIONS, AND PLANS SHALL BE SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE IN WHICH THE PROJECT OCCURS AND SUBMITTED TO THE ARCHITECT FOR REVIEW PRIOR TO FABRICATION.
- GOVERNING BUILDING CODE: INTERNATIONAL BUILDING CODE (IBC) 2021
- WIND DESIGN
  - BASIC WIND SPEED (3 SECOND GUST): 103 MPH
  - WIND IMPORTANCE FACTOR,  $I_w$ : 1.0,
  - BUILDING CATEGORY: II
  - WIND EXPOSURE: C
  - COMPONENT AND CLADDING DESIGN WIND PRESSURE SHALL BE AS REQUIRED BY THE IBC 2021.
- SEISMIC DESIGN
  - SEISMIC IMPORTANCE FACTOR,  $I_e$ : 1.0
  - BUILDING CATEGORY II
  - SITE CLASS D - DEFAULT
  - SPECTRAL RESPONSE COEFFICIENTS,  $S_{DS} = 1.18$
  - SEISMIC DESIGN CATEGORY: D
  - LATERAL SUPPORT OF BUILDING TO BE DESIGNED BY BUILDING MANUFACTURER MAY BE BRACING, FRAMES, ETC.
- ARW ENGINEERS EXPRESSLY DISCLAIMS RESPONSIBILITY FOR THE ENGINEERING OF THE PRE-ENGINEERED METAL BUILDING.



Rev.	Date	Description
1	11/11/24	ADD.01

Designed by:	Designer	Submitted:	10.04.2024	REV:	1
Drawn by:	Author	File:			
Reviewed by:	Checker	Scale:	1/2" = 1'-0"		
Submitted by:	Approver	Project Number:	EA240221P		

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STRUCTURAL NOTES

SHEET NUMBER  
**S002**

D

C

B

A

### CONCRETE PIER SCHEDULE

MARK	SIZE (B x L)	B1	B2	L1	L2	VERT REINF. (NOTE 2)	TIES	COMMENTS
CP-1	20" x 16"	---	---	---	---	(10) #6	#3 @ 8"	(3 TIES IN TOP 5')

PIER AT WALL

PIER REINFORCEMENT

PIER AT CORNER

WALL REINFORCEMENT

10 VERTS

**NOTES:**

- WHERE TOP OF PIER IS LOWER THAN TOP OF FOUNDATION WALL, BLOCK OUT FOUNDATION WALL AS REQUIRED FOR BASE PLATE CLEARANCE.
- VERTICAL PIER REINFORCING TO BE UNIFORMLY SPACED AROUND PERIMETER, 2" CLEAR FROM OUTSIDE OF PIER.
- TOP OF PIER ELEVATION IS 8" BELOW FINISHED FLOOR ELEVATION EXCEPT WHERE [PIER (ELEV.)] OTHERWISE NOTED ON PLANS. SEE LEGEND FOR ADDITIONAL INFORMATION.
- WHERE PIER IS NOT SYMMETRICAL ABOUT GRIDLINES, REFER TO PLAN FOR BRACED FRAME LAYOUT AND RESPECTIVE DIRECTION OF OFFSET DIMENSIONS, WHERE PROVIDED.
- ALL PIERS AT FOUNDATION WALLS ARE TO BE CONSTRUCTED MONOLITHICALLY WITH WALLS UNLESS NOTED OTHERWISE.
- PIER REINFORCEMENT SHALL BE FABRICATED WITH SUFFICIENT SIZE SO THAT WALL REINFORCEMENT PASSES THROUGH PIER REINFORCEMENT.
- WHERE SPECIFIC 'B' AND 'L' DIMENSIONS ARE NOT PROVIDED, EDGE OF PIER EXTENDS TO EXTERIOR EDGE OF FOUNDATION WALL.
- SEE 7/5201 FOR ADDITIONAL PIER REINF. AT ALL PIERS.

### CONCRETE FOUNDATION WALL SCHEDULE

MARK	THICKNESS "T"	VERTICAL REINFORCING				HORIZONTAL REINFORCING				TOP & BOTTOM BARS
		INSIDE FACE		CENTER OF WALL/OUTSIDE FACE		EACH FACE		CENTER OF WALL		
		SIZE	SPACING	SIZE	SPACING	SIZE	SPACING	SIZE	SPACING	
CW-1	8"	---	---	#4	18"o.c.	---	---	#4	12"o.c.	(2) #5
CW-2	---	---	---	---	---	---	---	---	---	---
CW-3	---	---	---	---	---	---	---	---	---	---
CW-4	---	---	---	---	---	---	---	---	---	---
CW-5	---	---	---	---	---	---	---	---	---	---
CW-6	---	---	---	---	---	---	---	---	---	---
CW-7	---	---	---	---	---	---	---	---	---	---
CW-8	---	---	---	---	---	---	---	---	---	---
CW-9	---	---	---	---	---	---	---	---	---	---

**TWO LAYERS OF REINFORCING**

**ONE LAYER OF REINFORCING**

**ENGINEER NOTE:**  
REVIEW COVER DISTANCES AND REVISE ACCORDINGLY WHEN THE ARCHITECT IS PUTTING REVEALS IN THE WALL.

### FOOTING SCHEDULE

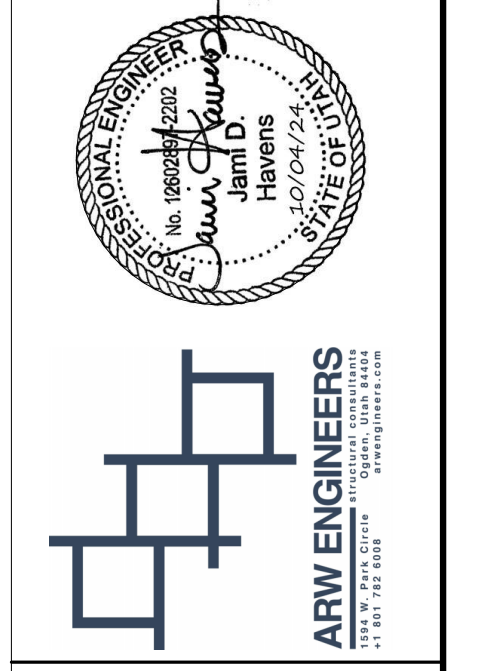
MARK	WIDTH	LENGTH	THICK	LENGTHWISE REINF.		CROSSWISE REINF.		REMARKS
				NO.	SIZE	NO.	SIZE	
				NO.	SPA.	NO.	SPA.	
FC2	2'-0"	CONT.	12"	(2)	#5	---	---	
F3	3'-0"	3'-0"	12"	(3)	#5	(3)	#5	REINFORCE TOP & BOTTOM
F3.5	3'-6"	3'-6"	12"	(3)	#5	(3)	#5	REINFORCE TOP & BOTTOM
F4	4'-0"	4'-0"	12"	(4)	#5	(4)	#5	REINFORCE TOP & BOTTOM
F4.5	4'-6"	4'-6"	12"	(4)	#5	(4)	#5	REINFORCE TOP & BOTTOM
F5	5'-0"	5'-0"	12"	(5)	#5	(5)	#5	REINFORCE TOP & BOTTOM
F5.5	5'-6"	5'-6"	12"	(6)	#5	(6)	#5	REINFORCE TOP & BOTTOM
F6	6'-0"	6'-0"	14"	(6)	#5	(6)	#5	REINFORCE TOP & BOTTOM
F6.5	6'-6"	6'-6"	14"	(7)	#6	(7)	#6	REINFORCE TOP & BOTTOM
F7	7'-0"	7'-0"	16"	(7)	#6	(7)	#6	REINFORCE TOP & BOTTOM
F7.5	7'-6"	7'-6"	16"	(8)	#6	(8)	#6	REINFORCE TOP & BOTTOM
F8	8'-0"	8'-0"	18"	(8)	#6	(8)	#6	REINFORCE TOP & BOTTOM
F8.5	8'-6"	8'-6"	18"	(9)	#7	(9)	#7	REINFORCE TOP & BOTTOM
F9	9'-0"	9'-0"	20"	(9)	#7	(9)	#7	REINFORCE TOP & BOTTOM
F9.5	9'-6"	9'-6"	20"	(9)	#7	(9)	#7	REINFORCE TOP & BOTTOM
F10	10'-0"	10'-0"	22"	(10)	#7	(10)	#7	REINFORCE TOP & BOTTOM
F10.5	10'-6"	10'-6"	22"	(11)	#7	(11)	#7	REINFORCE TOP & BOTTOM
F11	11'-0"	11'-0"	24"	(11)	#7	(11)	#7	REINFORCE TOP & BOTTOM
F11.5	11'-6"	11'-6"	26"	(11)	#8	(11)	#8	REINFORCE TOP & BOTTOM
F12	12'-0"	12'-0"	26"	(12)	#8	(12)	#8	REINFORCE TOP & BOTTOM

**TYP. FOOTING SECTION**

**TYP. FOOTING SECTION W/ TOP & BOTTOM REIN.**

### STANDARD HOOK & BEND SCHEDULE

TYPE OF STANDARD HOOK	BAR SIZE	MIN. INSIDE BEND DIA. FOR STIRRUPS, TIES, AND HOOPS, in	STRAIGHT EXTENSION $l_{ext}$ FOR STIRRUPS, TIES, AND HOOPS in.	MIN. INSIDE BEND DIA. FOR OTHER BARS, in	STRAIGHT EXTENSION $l_{ext}$ FOR OTHER BARS in.	TYPE OF STANDARD HOOK
90° HOOK	#3 - #5	4d <sub>b</sub>	GREATER OF 6d <sub>b</sub> AND 3"	6d <sub>b</sub>	12d <sub>b</sub>	
	#6 - #8	6d <sub>b</sub>	12d <sub>b</sub>	8d <sub>b</sub>		
	#9 - #11	N/A	N/A	10d <sub>b</sub>		
	#14 - #18	N/A	N/A	10d <sub>b</sub>		
135° HOOK	#3 - #5	4d <sub>b</sub>	GREATER OF 6d <sub>b</sub> AND 3"	N/A	N/A	
	#6 - #8	6d <sub>b</sub>	GREATER OF 6d <sub>b</sub> AND 3"	N/A	N/A	
180° HOOK	#3 - #5	4d <sub>b</sub>	GREATER OF 4d <sub>b</sub> AND 2.5"	6d <sub>b</sub>	GREATER OF 4d <sub>b</sub> AND 2.5"	
	#6 - #8	6d <sub>b</sub>	N/A	8d <sub>b</sub>		
	#9 - #11	N/A	N/A	10d <sub>b</sub>		



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REV.	DATE	DESCRIPTION
1	11/11/24	ADD.01

DESIGNED BY: JDH  
 DRAWN BY: LEE  
 CHECKER: LEE  
 REVIEWED BY: LEE  
 PROJECT NUMBER: EA24022P  
 SCALE: 3/4" = 1'-0"

KCC STORES  
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 FARR WEST, UT 84404  
 PERMIT SUBMITTAL





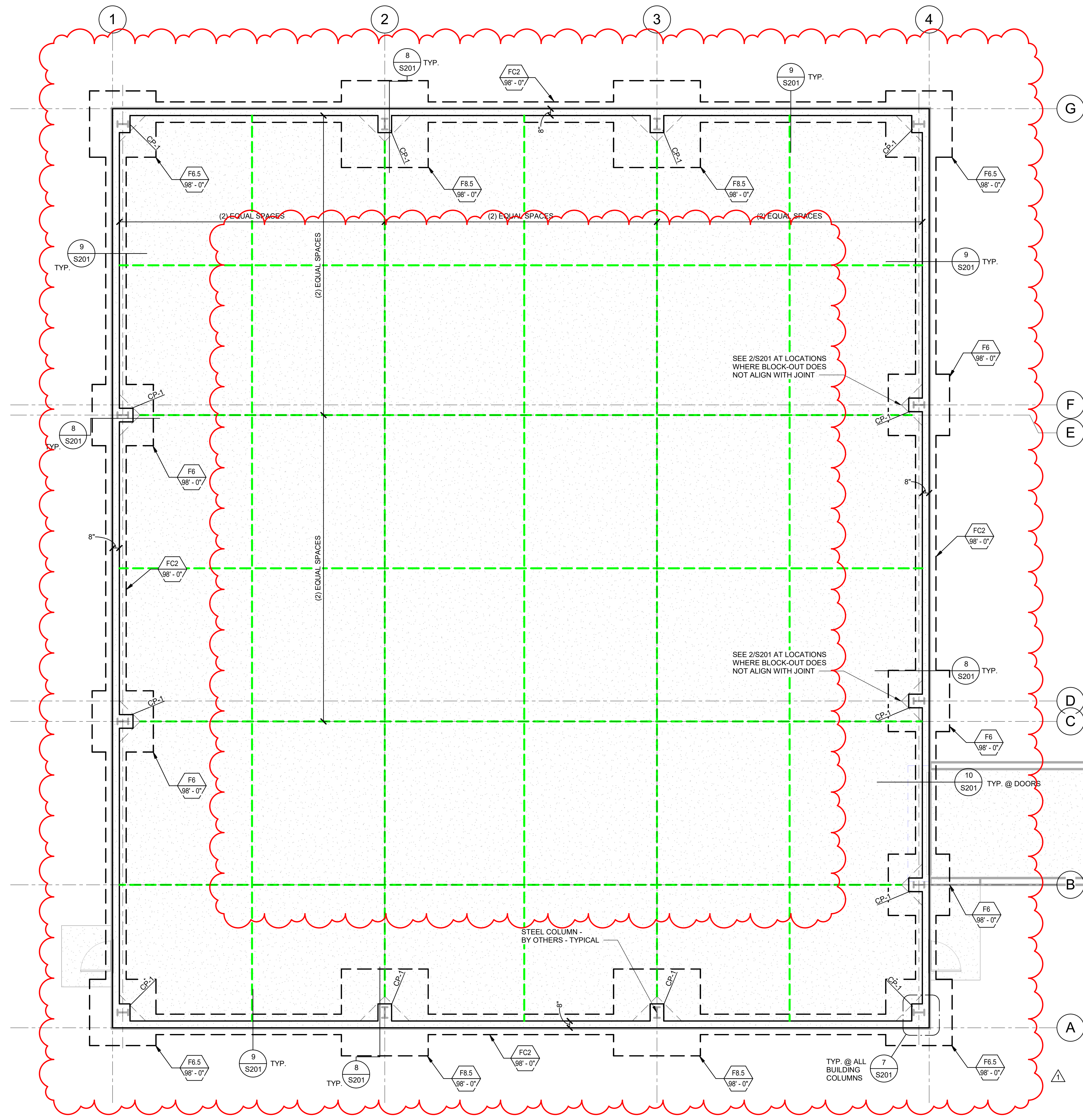


**FOOTING & FOUNDATION NOTES :**

1. SEE SHEET S001 & S002 FOR GENERAL STRUCTURAL NOTES.
2. ALL FOOTINGS SHALL BE PLACED ON SOIL WHICH HAS BEEN PREPARED FOR THE BEARING PRESSURE SHOWN IN THE STRUCTURAL NOTES.
3. VERIFY ALL DIMENSIONS WITH DRAWINGS AND NOTIFY ENGINEER OF ANY DISCREPANCIES FOUND.
4. SOLID GROUT ALL MASONRY COURSES BELOW FINISHED FLOOR OR EXTERIOR GRADE (WHICHEVER IS HIGHER).
5. SEE SHEET S010 FOR FOOTING SCHEDULE.
6. PROVIDE DOWELS IN FOOTINGS / FOUNDATIONS TO MATCH VERTICAL WALL REINFORCING U.N.O.
7. SEE SHEET S201 FOR TYPICAL FOOTING AND FOUNDATION DETAILS.
8. ALL EXTERIOR WALL FOOTINGS TO BEAR A MINIMUM DIMENSION BELOW EXTERIOR GRADE AS NOTED IN GENERAL STRUCTURAL NOTES.
9. FOUNDATION WALLS ARE DESIGNED AND DETAILED FOR THE COMPLETED CONDITION. CONTRACTOR IS RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION. BACKFILLED WALLS SHALL BE ADEQUATELY BRACED DURING CONSTRUCTION AND BACKFILLING TO PRODUCE PLUMB AND TRUE FINISHED WALLS.
10. ALL ANCHORS, HOLDDOWNS, ANCHOR BOLTS, DOWELS, EMBEDDED ITEMS, ETC. SHALL BE HELD IN PLACE PRIOR TO AND DURING CONCRETE AND/OR GROUT PLACEMENT.
11. COORDINATE ALL FOOTING DEPTHS (INTERIOR AND EXTERIOR) WITH DRAINS, CONDUITS, ETC. THAT MAY INTERFERE WITH FOOTINGS.
12. ALL CONCRETE PIERS BELOW COLUMNS SHALL BE CP-1 UNLESS NOTED OTHERWISE. SEE THE PIER SCHEDULE ON S010 FOR PIER SIZE AND REINFORCEMENT.
13. ALL FOUNDATION WALLS SHALL BE CW-1 U.N.O. - SEE SCHEDULE ON S010.

**CONCRETE SLAB NOTES :**

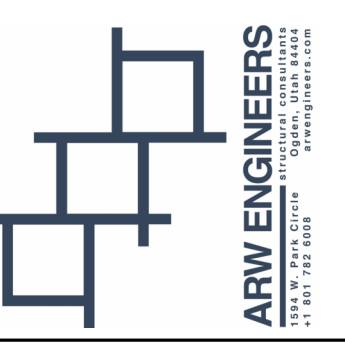
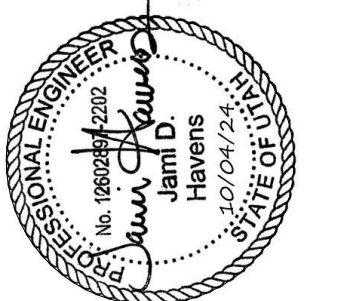
1. SLAB ON GRADE SHALL BE 10" THICK CONCRETE U.N.O. SLAB SHALL BE UNDERLAIN BY FREE DRAINING MATERIAL AS PRESCRIBED IN THE SOILS REPORT.
2. SEE SHEET S201 FOR CONTROL AND CONSTRUCTION JOINT INFORMATION.
3. REINFORCE SLAB WITH #5 @ 12" o.c. EACH WAY TYP. AND BOTTOM.
4. --- INDICATES JOINT LOCATIONS/BLOCKOUTS - SEE 1/S201
5. THE SLAB ON GRADE IS A STRUCTURAL DIAPHRAGM. THE SLAB MAY NOT BE CUT IN ANY LOCATION. IN ADDITION, SPECIAL INSPECTION OF THE SLAB REINFORCEMENT IS REQUIRED PER IBC 2021 SECTION 1705.3



**FOOTING AND FOUNDATION PLAN**

SCALE : 3/16" = 1'-0"

A  
S101



**EASOLUTIONS**  
 324 S. Sicde Street, Suite 444  
 Salt Lake City, UT 84111  
 www.easolutions.us  
 385-549-8800

Rev.	Description	Date	Appr.
1	ADD.01	11/11/24	

Designed by:	Submitted:	REV:
JDH	10.04.2024	1
Drawn by:	File:	
LEE		
Reviewed by:	Scale:	
JDH	As indicated	
Submitted by:	Project Number:	
JDH	E02022P	

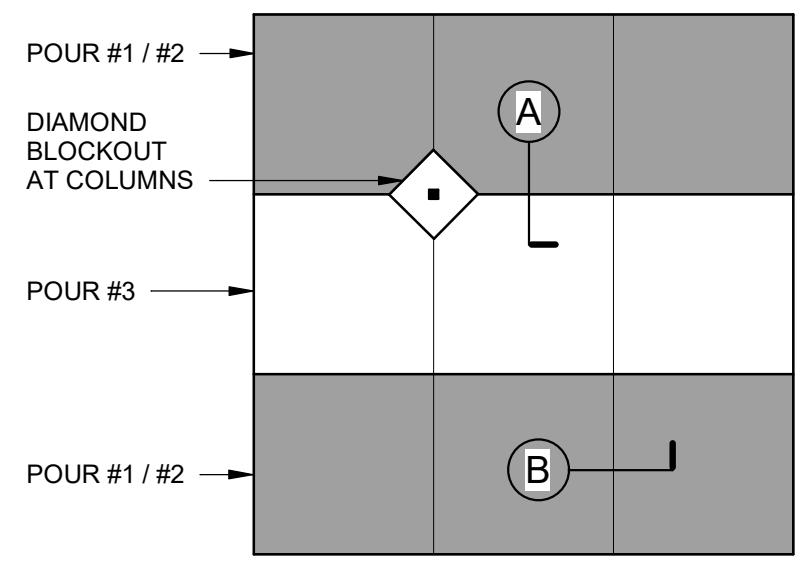
**KCC STORES  
 PEMB BLDG.  
 2010 N. RULON WHITE BLVD.  
 FARR WEST, UT 84404  
 PERMIT SUBMITTAL**

FOOTING & FOUNDATION PLAN

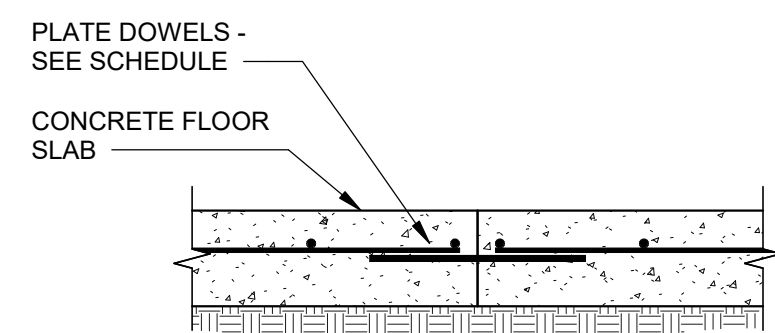
SHEET NUMBER  
**S101**

Autodesk Docs://EA244022P - KC PEMB Structure - Ogden/S-24127-Kimberly Clark 80x90 PEMB-2025.rvt

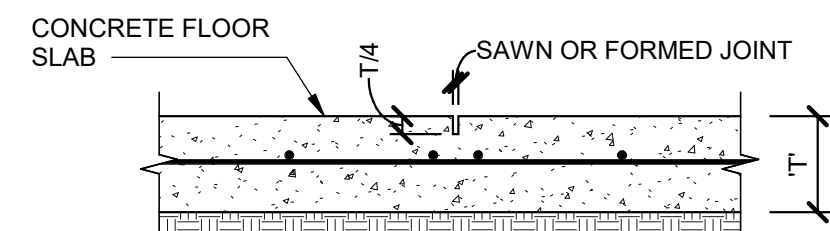
SLAB THICKNESS	SMOOTH DOWELS		DIAMOND DOWELS		COMMENTS
	SIZE	SPACING	SIZE	SPACING	
6" & 8"	1" DIA. x 16"	12"	3/8" x 4 1/2" x 4 1/2"	18"	
10" & 12"	1 1/4" DIA. x 18"	12"	3/4" x 4 1/2" x 4 1/2"	20"	



NOTES:  
 1. JOINTS SHALL OCCUR AT MAIN COLUMN / GRID LINES W/ 15'-0" MAX. SPACING BETWEEN JOINTS AT 8" AND 10" SLABS, 20'-0" MAX. AT 12" SLABS.  
 2. SEE PLAN FOR SLAB THICKNESS 'T' AND REINFORCING SIZE AND SPACING.



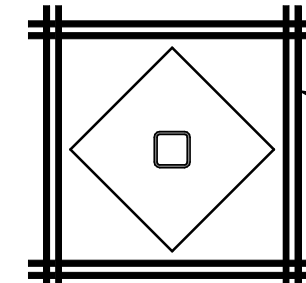
CONSTRUCTION JOINT  
SCALE: NONE



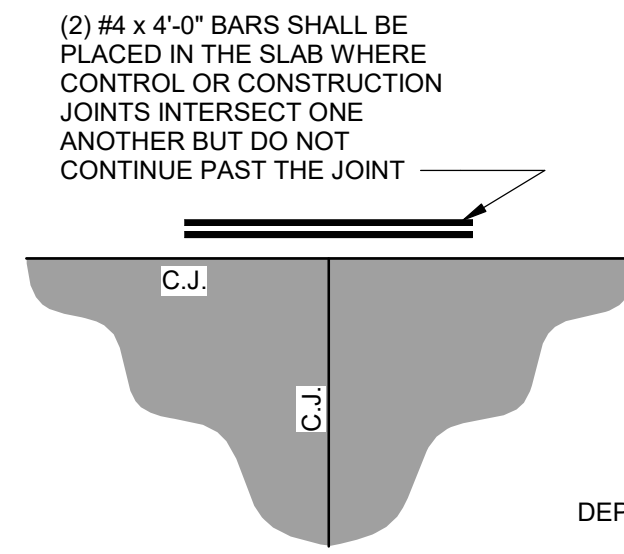
CONTROL JOINT  
SCALE: NONE

TYPICAL CONCRETE SLAB JOINTS  
SCALE: NONE

1  
S201



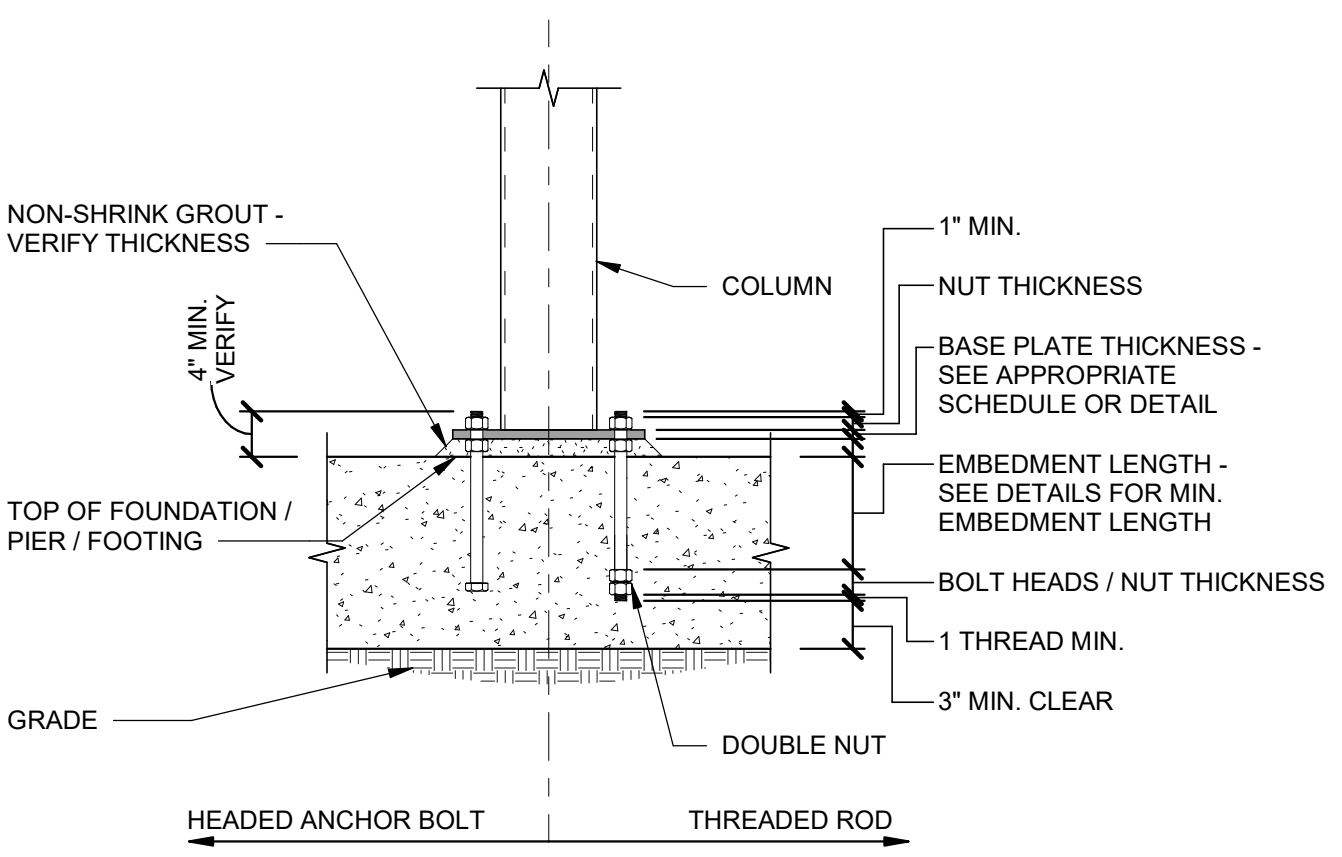
PLAN VIEW



PLAN VIEW

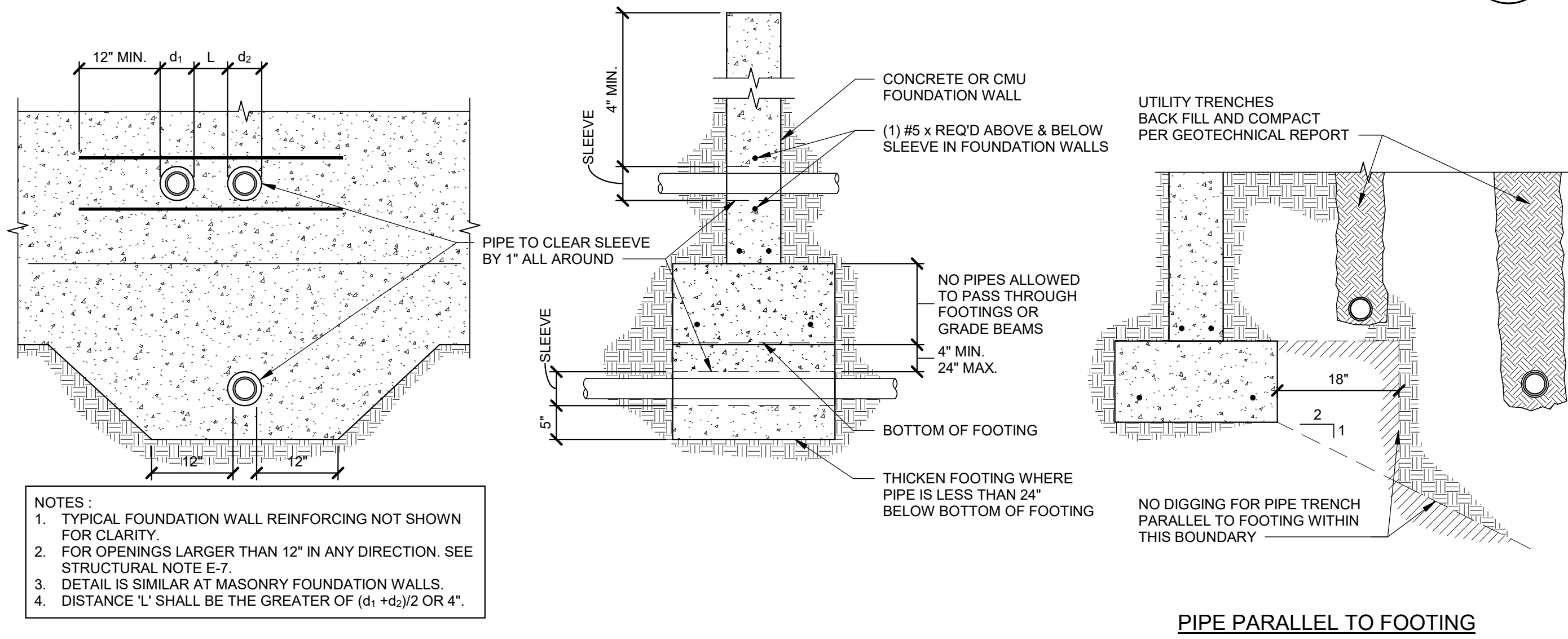
TYPICAL CONTROL JOINT DETAIL  
SCALE: NONE

2  
S201



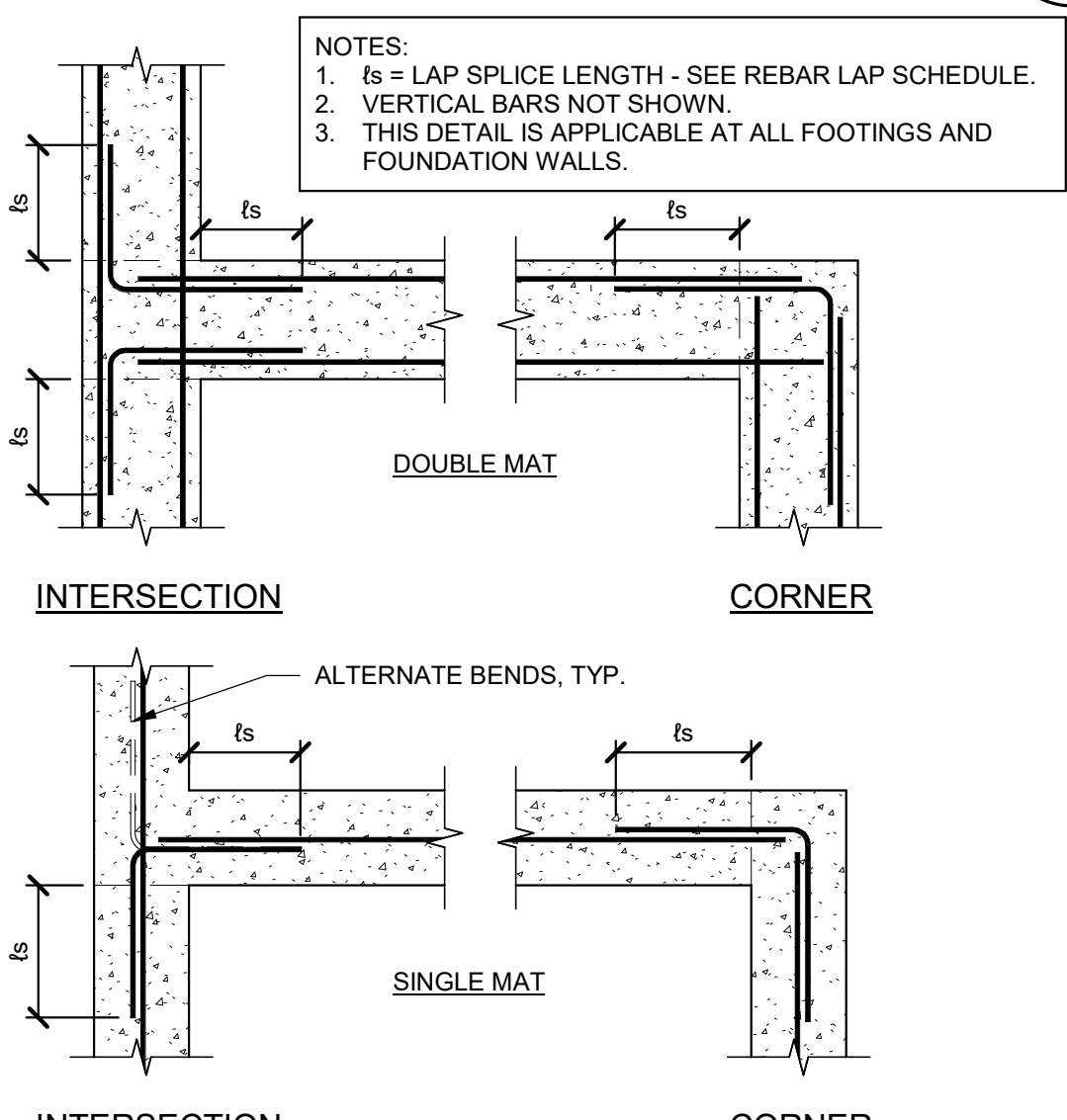
TYPICAL ANCHOR BOLT EMBEDMENT  
DETAIL  
SCALE: NONE

3  
S201



ALLOWABLE PIPING LOCATIONS @ FOOTING DETAIL  
SCALE: NONE

4  
S201

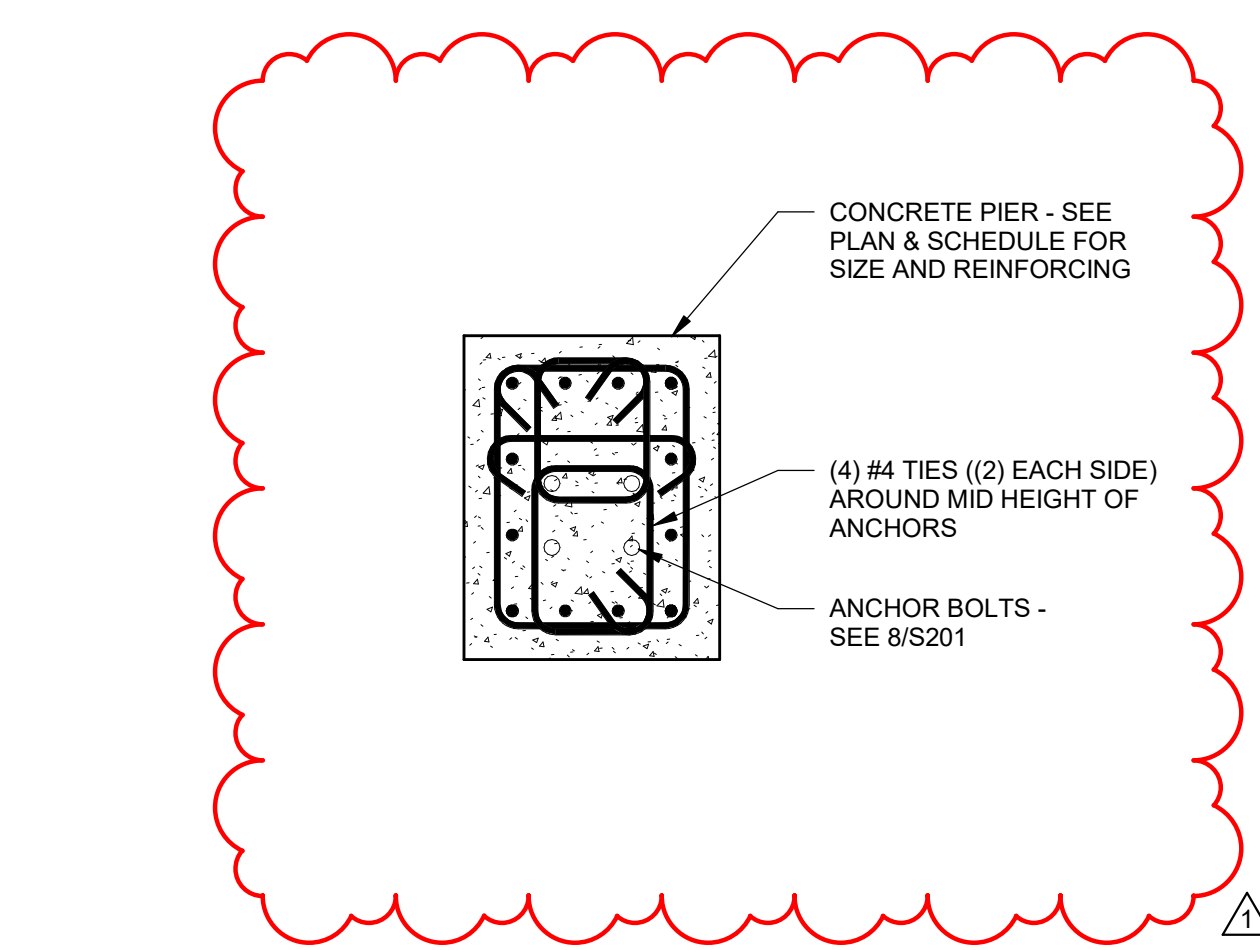


TYPICAL REINFORCING @ INTERSECTIONS  
IN CONCRETE DETAIL  
SCALE: NONE

5  
S201

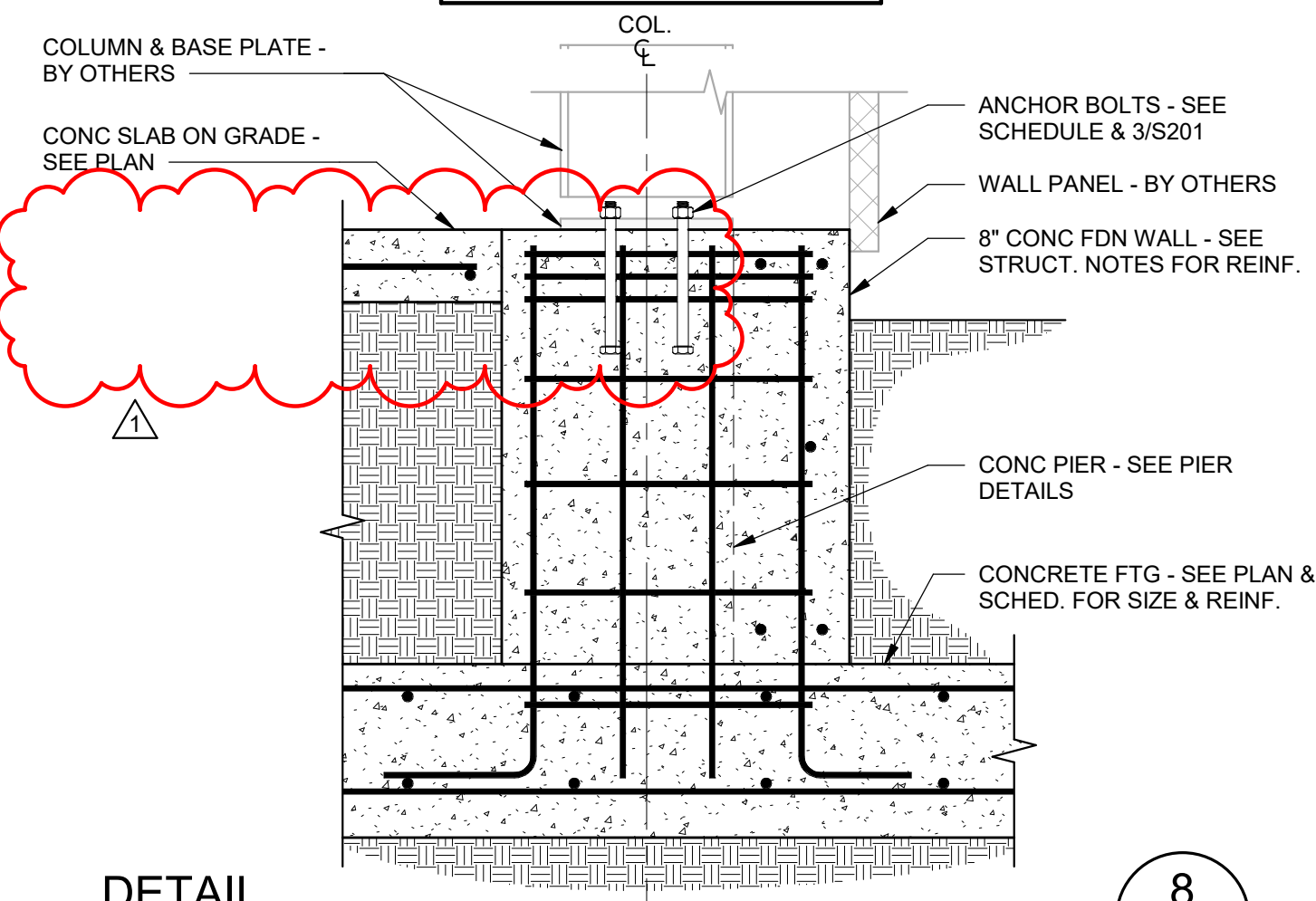
GRID	SIZE	EMBEDMENT
1	3/4" DIA.	18"
2	1" DIA.	18"
3	1" DIA.	18"
4	3/4" DIA.	18"

NOTE: ALL ANCHOR BOLTS SHALL BE ASTM F1554 GRADE 105



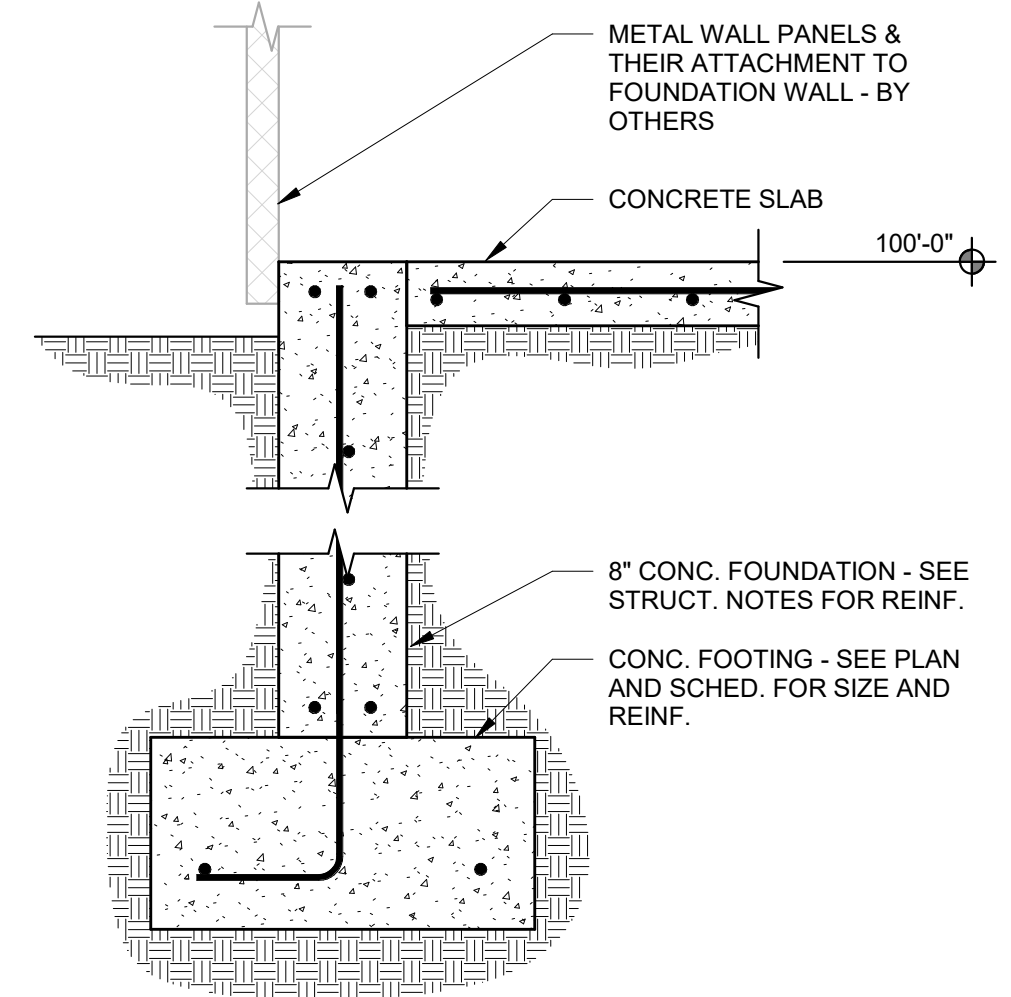
DETAIL  
SCALE: NONE

7  
S201



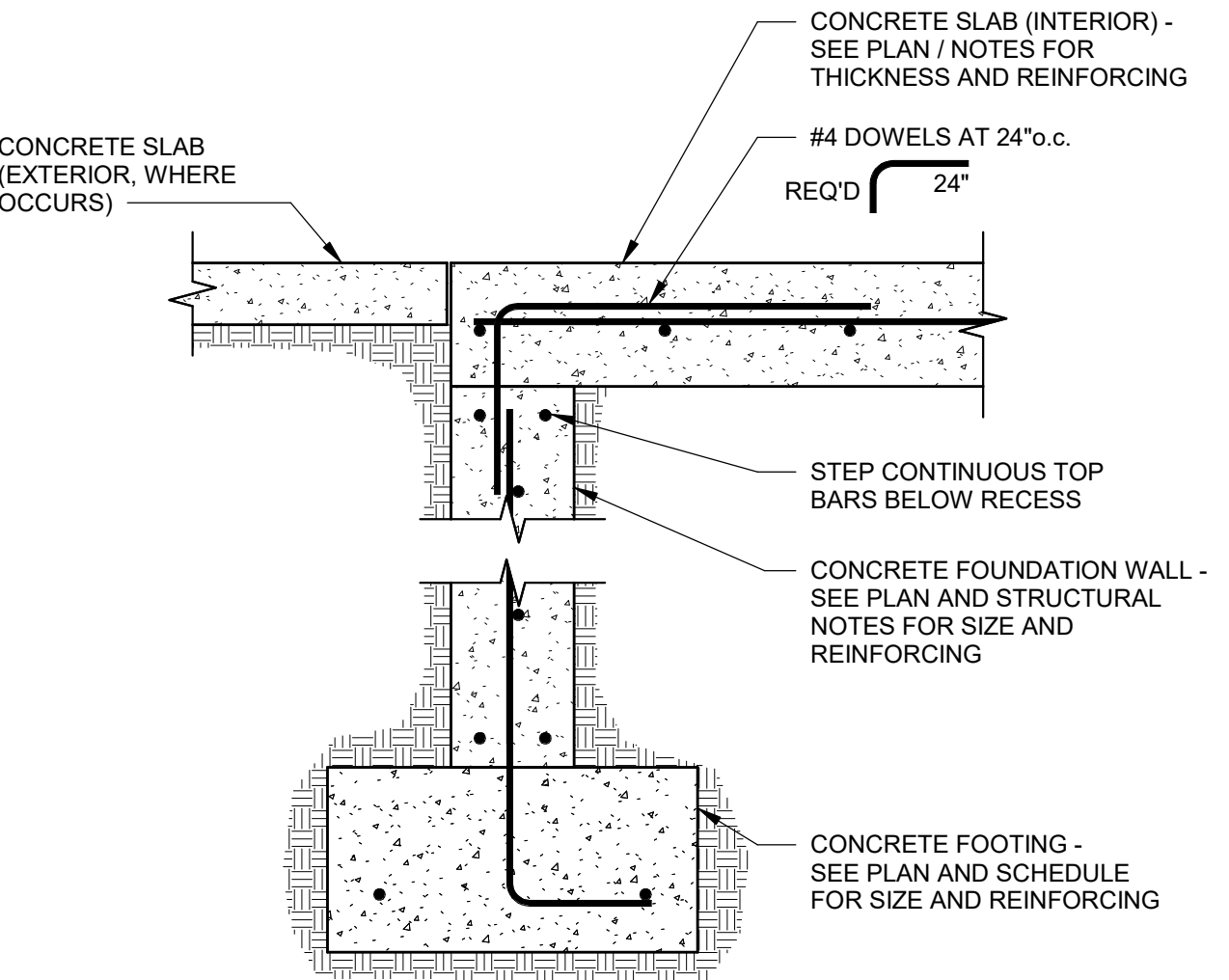
DETAIL  
SCALE: NONE

8  
S201



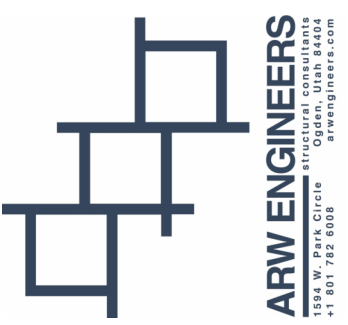
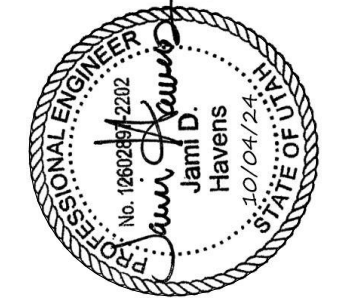
DETAIL  
SCALE: NONE

9  
S201



CONCRETE FOUNDATION @ OPENING  
SCALE: NONE

10  
S201



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 324 S. State Street, Suite 444  
 Salt Lake City, UT 84111  
 www.easolutions.us  
 385-549-8800

Rev.	Date	Description
1	11/11/24	ADD 01

Designed by:	Submitted:	REV:	1
JDH	10.04.2024		
Drawn by:	File:		
LEE			
Reviewed by:	Scale:		
Checker	As indicated		
Submitted by:	Project Number:		
Approver	EA2022P		

**KCC STORES  
 PEMB BLDG.  
 2010 N. RULON WHITE BLVD.  
 FARR WEST, UT 84404  
 PERMIT SUBMITTAL**

TYPICAL DETAILS

SHEET NUMBER  
**S201**

Autodesk Docs://EA244022P - KC PEMB Structure - Ogden/S-24127-Kimberly Clark 80090 PEMB-2025.rvt

WSB LETTER OF CERTIFICATION

Reference: KIMBERLY CLARK  
2010 RULON WHITE BLVD  
OGDEN, UT

DATE 9/10/24  
Job No. SBI37662

To whom it may concern:

This is to certify that the above referenced building components furnished by WSB are designed with good engineering practice and in accordance with the order documentation and the applicable structural design provisions set forth in the Applicable MBMA Low Rise Building Systems Manual, the applicable AISC and AISI Manuals, and the IBC 21 code, to sustain the requested design loads, specifically as follows:

Risk/Occupancy Category - II - Normal	Terrain_Category----- C
Wind Exposure ---- C	Building Enclosure ---- Enclosed
Live Load (Roof)----- 20.00 psf	Live Load (Frame) ----- 20.00 psf
Dead Load ----- 2.90 psf	Collateral Load ----- 5.00 psf
Rain Intensity(5yr) ----- 2.9900 in/hr	
Rain Intensity(25yr) ----- 4.8600 in/hr	
Ground snow Pg ----- 43 psf	
Snow Exposure coeff Ce -- 1.0000	Thermal Coeff Ct----- 1.20
Slippery Roof Coeff Cs -- Y	Slope Factor coeff ----- 1.0000
Snow Importance ----- 1.00	Flat Roof Snow Load Pf-- 36.12 psf
Wind Load (Vult) -- 115 mph	Wind Importance* -- 1.00
Wind Load (Vasd) -- 89.08 mph	
Cpi_P----- 0.18	Cpi_S----- -0.18
Component Loads= 25.981 / -34.642 psf	

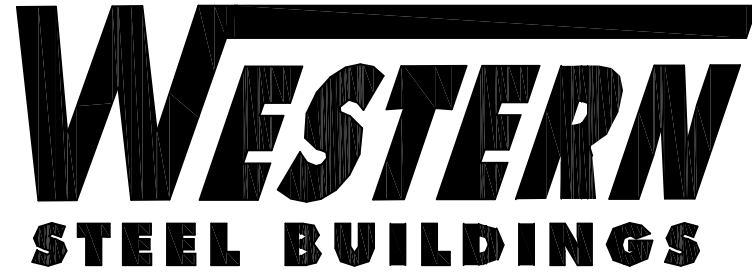
Seismic Importance--- 1.00  
Ss--- 1.48 S1--- 0.54 Sds--- 1.18 Sd1--- 0.63  
Sdc--- D Site\_Class--- d  
Seismic base shear, longitudinal 48.59 kips  
Seismic base shear, transverse 49.21 kips

FRAME.R--- 3.2500  
BRACE\_SW.R--- 3.2500  
Cs=(Sds/(I\*R))  
Equivalent Lateral force procedure used  
Basic seismic resisting systems: Moment frames, braced frames, diaphragm  
Special loads: as required (crane loads, mezzanine loads, snow drift loads)

\* Wind Importance is not applicable to all building codes.  
When not prescribed by code, Importance is taken as 1.0 in calculations.

This certification is limited to the structural design of the frames, secondary, and roof/wall covering manufactured by WSB. Accessory items such as doors, windows, louvers, translucent panels, and ventilators are not included. Also excluded are other parts of the project such as masonry, footings, and foundations, mechanical equipment, erection, and general contract work.

DEFLECTION LIMITS  
WALL GIRT, MAX. DEFL. L/span = 90  
ROOF PURLIN, L.L. DEFL. L/span = 180  
RIGID FRAME VERT. DEFL. L/span = 180  
RIGID FRAME HORIZ. DEFL. H/span = 60



PH: 435-565-6882  
Fax: 435-503-9467

BUILDING DATA:

WIDTH (ft) = 90  
LENGTH (ft) = 80  
EAVE HEIGHT (ft) = 29.5  
ROOF SLOPE (rise/12") = 1.0:12  
SIDEWALL BAY SPACING = 3 at 26.67  
  
LEFT ENDWALL BAY SP = 3 at 30  
RIGHT ENDWALL BAY SP = 1 at 14  
  
FR. SIDEWALL GIRT TYPE = Bypass  
BK. SIDEWALL GIRT TYPE = Bypass  
LT. ENDWALL GIRT TYPE = Bypass  
RT. ENDWALL GIRT TYPE = Bypass  
ROOF FRAMING = Bypass PURLINS  
INTERIOR FRAMING = 2 Rigid Frames, Clear Span  
  
ROOF PANEL TYPE = TSS-324  
ROOF PANEL GAUGE = 24 GA  
ROOF PANEL COLOR = Galvalume  
  
WALL PANEL TYPE = PBR  
WALL PANEL GAUGE = 26 GA  
WALL PANEL COLOR = POLAR WHITE

SUPPLIED OPTIONS AND ACCESSORIES

GUTTERS AND DOWNSPOUTS  
FRONT SIDEWALL (ft): 80 FRONT Downspouts: 4  
BACK SIDEWALL (ft): 80 BACK Downspouts: 4  
COLOR: POLAR WHITE COLOR: POLAR WHITE

ROOF EDGE TRIM = COLOR: POLAR WHITE  
CORNER TRIM = COLOR: POLAR WHITE  
OPENING TRIM = COLOR: POLAR WHITE  
BASE TRIM = COLOR: POLAR WHITE

WALK DOORS = N/A

ROOF INSULATION = R48 MULTI-LAYER ENERGY SAVER (WSB) <sup>2</sup>

WALL INSULATION = R19 (RSB)

LINER PANEL = N/A

CANOPIES \ EXTENSIONS= N/A

ENGINEERING CERTIFICATION:



**REVIEWED**  
By Philip Perkins at 9:26 am, Nov 15, 2024

REMARKS/NOTES

1.

PROJECT: 90X80 SHOP	BLDG SIZE: 90.00' x 80.00' x 29.50'	JOB NUMBER
2010 RULON WHITE BLVD OGDEN, UT	DESIGN: PP DRAWN: MH	WSB37662
CUSTOMER: KIMBERLY CLARK	DATE: 11/4/24 CHECK:	ACCT# 14046
DWG NAME: DRAWINGS COVER PAGE	SCALE: NONE REV. NO: <sup>2</sup>	DRAWING NUMBER
		SHEET 1 OF 15

THESE DRAWINGS ARE SUBMITTED FOR CONSTRUCTION AND ARE DESIGNED TO BE FINAL DRAWINGS. IT IS THE CUSTOMER'S RESPONSIBILITY TO ENSURE THIS SET OF DRAWINGS ARE THE SOLE SET OF DRAWINGS IN THE HANDS OF THE ERECTOR AND OTHER PROFESSIONAL TRADES ON THE PROJECT SITE.

**ISSUED FOR CONSTRUCTION**

**GENERAL NOTES: MBM=METAL BUILDING MANUFACTURER**

1. MANUFACTURING AND FABRICATION PROCEDURES SHALL BE IN ACCORDANCE WITH MBM'S STANDARD PRACTICES WHICH ARE BASED ON THE APPLICABLE SECTIONS RELATING TO DESIGN REQUIREMENTS, ALLOWABLE STRESSES, AND FABRICATION TOLERANCES PER THE LATEST EDITIONS OF 'MBMA-COMMON INDUSTRY PRACTICES' AND 'AISC CODE OF STANDARD PRACTICE' AND THE 'AWS STRUCTURAL WELDING CODES D1.1 & D1.3

2. MATERIALS	ASTM DESIGNATION	MIN. YIELD
HOT ROLLED SHAPES	A36	Fy= 36 ksi
STRUCT. STEEL PLATE	A572	Fy= 55 ksi
STRUCT. STEEL SHEET	A1011 (SS)	Fy= 55 ksi
FLANGE/END PLATE MATERIAL	A529	Fy= 55 ksi
COLD FORM. LT. GA. SHAPES	A1011 (SS)	Fy= 55 ksi
ROOF SHEETING	A792 (SS)	Fy= 80 ksi
WALL SHEETING	A792 (SS)	Fy= 80 ksi
MACHINE BOLTS	A307	Fy= 36 ksi
HIGH STR. BOLTS	F3125 (A325)	Fy= 120 ksi
ANCHOR BOLTS (if supplied)	A36/F1554	Fy= 36 ksi
PIPE (interior or posts)	A53, GRADE A or B	Fy= 30 ksi
RECTANGULAR TUBE (interior or posts)	A500, GRADE B	Fy= 46 ksi

3. PRIMER  
SHOP PRIMER PAINT IS A RUST INHIBITIVE PRIMER WHICH MEETS OR EXCEEDS THE END PERFORMANCE OF FEDERAL SPECIFICATIONS TT-P-636 AND TT-P-664 AND IS A RED OXIDE OR GRAY PRIMER. PRIMER IS NOT INTENDED FOR LONG TERM EXPOSURE TO THE ELEMENTS. MBM IS NOT RESPONSIBLE FOR ANY DETERIORATION OF THE SHOP PRIMER AS A RESULT OF IMPROPER HANDLING AND/OR STORAGE. MBM SHALL NOT BE RESPONSIBLE FOR ANY FIELD APPLIED PAINT AND/OR COATINGS. (Section 6.5 AISC Code of Standard Practice, 9th ED.)

4. A325 BOLT TIGHTENING REQUIREMENTS  
ALL HIGH STRENGTH BOLTS ARE A325-N UNLESS SPECIFICALLY NOTED OTHERWISE. STRUCTURAL BOLTS SHALL BE TIGHTENED BY THE TURN OF NUT METHOD IN ACCORDANCE WITH THE CURRENT EDITION OF THE 'AISC STEEL CONSTRUCTION MANUAL'. A325 BOLTS ARE SUPPLIED WITHOUT WASHERS UNLESS NOTED OTHERWISE. UNLESS NOTED OTHERWISE, ALL BOLTED CONNECTIONS ARE DESIGNED AS BEARING TYPE CONNECTIONS WITH THE BOLT THREADS INCLUDED IN THE SHEAR PLANE.

5. ERECTION NOTE: (ERECTION AND UNLOADING NOT BY MBM)  
ALL BRACING SHOWN AND PROVIDED BY MBM FOR THIS BUILDING IS REQUIRED AND SHALL BE INSTALLED BY THE ERECTOR AS A PERMANENT PART OF THE STRUCTURE. IF ADDITIONAL BRACING IS REQUIRED FOR STABILITY DURING ERECTION, IT SHALL BE THE ERECTOR'S RESPONSIBILITY TO DETERMINE THE AMOUNT OF SUCH BRACING AND TO PROCURE AND INSTALL AS NEEDED.

6. SHORTAGES (SEE MBMA 5.2.1)  
THE QUANTITY OF CRATES AND STRUCTURAL ITEMS SHIPPED SHALL BE CHECKED AND ANY SHORTAGES OR OTHER DISCREPANCIES WITH RESPECT THERETO, SHALL BE REPORTED TO MBM ON THE DAY OF DELIVERY AND SUCH DISCREPANCY CONFIRMED IN WRITING WITHIN (7) SEVEN DAYS. WITH RESPECT TO ITEMS OR QUANTITIES WITHIN UNOPENED CRATES AND ANY LATENT DEFECTS, IT SHALL BE THE DUTY OF THE PURCHASER TO NOTIFY MBM ON THE DATE SUCH DEFECT OR SHORTAGE IS DISCOVERED AND CONFIRM SUCH NOTICE IN WRITING TO MBM WITHIN (7) DAYS THEREOF.

7. CORRECTIONS OF ERRORS AND REPAIRS (SEE MBMA 6.10)  
CLAIMS FOR CORRECTION OF ALLEGED MISFITS WILL BE DISALLOWED UNLESS MBM SHALL HAVE RECEIVED PRIOR NOTICE THEREOF AND ALLOWED REASONABLE INSPECTION OF SUCH MISFITS. THE CORRECTION OF MINOR MISFITS BY USE OF DRIFT PINS TO DRAW THE COMPONENTS INTO LINE, MODERATE AMOUNTS OF REAMING, SHIMMING, CHIPPING AND CUTTING, AND THE REPLACEMENT OF MINOR SHORTAGES OF MATERIAL ARE A NORMAL PART OF ERECTION AND ARE NOT SUBJECT TO CLAIM. NO PART OF THE BUILDING MAY BE RETURNED FOR ALLEGED MISFITS WITHOUT THE PRIOR APPROVAL OF MBM

**GENERAL NOTES (CONT.):**

8. CLOSURE STRIPS ARE FURNISHED FOR APPLICATION  
INSIDE - Under roof panels at eave.  
OUTSIDE - Between endwall panels and rake trim.  
- Under continuous ridge vent skirts.

Note: Conditions vary at hips, valleys, fascias, mansards and canopies. Refer to Erection Drawings.

9. VERTICAL DEFLECTION OF RIGID FRAMES  
Buildings which are loaded in regions of the country where snow and ice accumulation may occur should be aware that purlins and rigid frames particularly long span frames, will deflect vertically when subjected to snow and ice loads. Two areas which require special precaution during interior erection and are greatly affected by vertical deflection, should be carefully considered:

10.) Metal Studs should never be attached directly to rigid frames or purlins without slotted vertical clips. Even a small vertical deflection can cause a metal stud to bow out significantly.

11.) Care should be taken when supporting acoustical or other type hanging ceiling tiles from purlins and rigid frames. In hallways or small rooms the tiles should be supported from the permanent walls and partitions rather than the purlins. In larger rooms where the ceiling must be supported from the roof system, it is important to allow the ceiling to deflect at the outside walls at the same rate it deflects in the center of the room. If the ceiling is supported continuously along any non-yielding wall while rest of the ceiling is deflecting, obvious problems occur.

12. ROOF PENETRATION WARRANTY CONSIDERATIONS  
If a weather tightness warranty is to be provided for your project, MBM requires that the roof curbs and dectights be pre-approved by MBM. All roof curbs must be compatible with the roof panel. The roof curbs should have male and female side ribs and water diverters at the upslope side of the roof curbs. The following manufactures are currently pre-approved:

Manufacturer	Location	Web Site	Phone
LM Curbs	Longview, TX	lmcurbs.com	800-284-1412
Buildex	varies	itwbuildex.com	
Dyna-Flash	varies	dynamicfastener.com	
Dek-Tite	varies	itwbuildex.com	

10. SEAMER RENTAL INFORMATION  
MBM utilizes Quality Roof Seamers Inc. for all seamer rental needs. It is your responsibility to obtain seamer rental for your project needs unless otherwise stated in the contract documents. Contact information follows:

Quality Roof Seamers Inc.  
8265 MS-178  
Olive Branch, MS 38654  
(622) 895-1222  
<http://www.qualityroofseamers.com/>  
  
Direct Rental Adresse:  
<http://www.qualityroofseamers.com/manufacture/60-sbi-metal-buildings>



**REVIEWED**  
By Philip Perkins at 9:26 am, Nov 15, 2024

**WESTERN**  
STEEL BUILDINGS  
PH: 435-565-6882  
Fax: 435-503-9467

**BUYER/END USE CUSTOMER RESPONSIBILITIES**

1. It is the responsibility of the BUYER/END USER to obtain appropriate approvals and secure necessary permits for City, County, State, or Federal Agencies as required, and to advise/release MBM to proceed to fabricate upon receiving such.

2. MBM's standard specifications apply unless stipulated otherwise in the Contract Documents. MBM's design, fabrication, quality criteria, standards, practices, methods, and tolerances shall govern the work with any other interpretations to the contrary notwithstanding. It is understood by both Parties that the BUYER/END USER is responsible for clarification of inclusions or exclusions from the architectural plans and/or specifications.

SBI is not responsible for any testing of welds, screws, bolts, etc... Any testing including non-destructive testing of welds is the responsibility of the Buyer/End User to procure. SBI standards for quality control of welds is visual inspection during fabrication.

3. In case of discrepancies between MBM's structural steel plans and plans for other trades, MBM's plans shall govern. (Section 3, AISC Code of Standard Practices, 9th edition)

4. Approval of MBM drawings and calculations indicates that MBM has correctly interpreted and applied the Contract Documents. This approval constitutes the contractor/owners acceptance of the MBM's design concepts, assumptions, and loading. (Section 4 AISC Code and MBMA 3.3.3)

5. Once the BUYER/END USER has signed MBM's Approval Package and the project is released for fabrication, changes shall be billed to the BUYER/END USER including material, engineering, and other cost. An additional fee may be charged if the project must be moved from the fabrication and shipping sched..

6. The BUYER/END USER is responsible for overall project coordination. All interface, compatibility, and design considerations concerning any materials not furnished by MBM are to be considered and coordinated by the BUYER/END USER. Specific design criteria concerning this interface between materials must be furnished before release for fabrication or MBM's assumptions will govern. (Section 4 and Commentary, AISC)

7. It is the responsibility of the BUYER/END USER to insure that MBM's plans comply with the applicable requirements of any governing building authorities. The supplying of sealed engineering data and drawings for the metal building system does not imply or constitute an agreement that MBM or its design engineers are acting as the 'Engineer of Record' or 'Design Professional' for a construction project. These drawings are sealed only to certify the design of the structural components furnished by MBM.

8. The BUYER/END USER is responsible for setting of anchor bolts and erection of steel in accordance with MBM's "FOR CONSTRUCTION" drawings only. Temporary supports such as guys, braces, falsework, cribbing or other elements required for the erection operation shall be determined and furnished and installed by the erector. No items should be purchased from a preliminary set of drawings, including anchor bolts. Use only final "FOR CONSTRUCTION" drawings for this use. (Section 7 AISC Code)

9. MBM is responsible for the design of the anchor bolt to permit the transfer of forces between the base plate and the anchor bolt in shear, bearing, and tension, but is not responsible for the transfer of anchor bolt forces to the concrete or the adequacy of the anchor bolt in relation to the concrete. Unless otherwise provided in the Order Documents, MBM does not design and is not responsible for the design, material and construction of the foundation or foundation embedments. The BUYER/END USER should assure himself that adequate provisions are made in the foundation design for loads imposed by column reactions of the building, other imposed loads, and bearing capacity of the soil and other conditions of the building site. It is recommended that the anchorage and foundation of the building be designed by a Registered Professional Engineer experienced in the design of such structures. (Section 3.2.2 MBMA Low Rise Building Systems Manual)

10. Normal erection operations include the corrections of minor misfits by moderate amounts of reaming, chipping, welding, or cutting, and the drawing of elements into line through the use of drift pins. Errors which cannot be corrected by the foregoing means or which require major changes in member design are to be reported immediately to MBM by the BUYER/END USER, to enable whoever is responsible either to correct the error or to approve the most efficient and economic method of correction to be used by others. (Section 6-10 MBMA Manual)

11. Neither the fabricator nor the BUYER/END USER will cut, drill, or otherwise alter his work, or the work of other trades, to accommodate other trades, unless such work is clearly specified in the contract documents. Whenever such work is specified, the BUYER/END USER is responsible for furnishing complete information as to materials, size, location, and number of alterations prior to preparation of shop drawings. (Section 7 'AISC Code, MBMA Manual Section 8.6)

12. WARNING: In no case should Aluminized Zinc steel panels be used in conjunction with lead or copper. Run-off from these materials are highly corrosive to the Aluminum Zinc coatings.

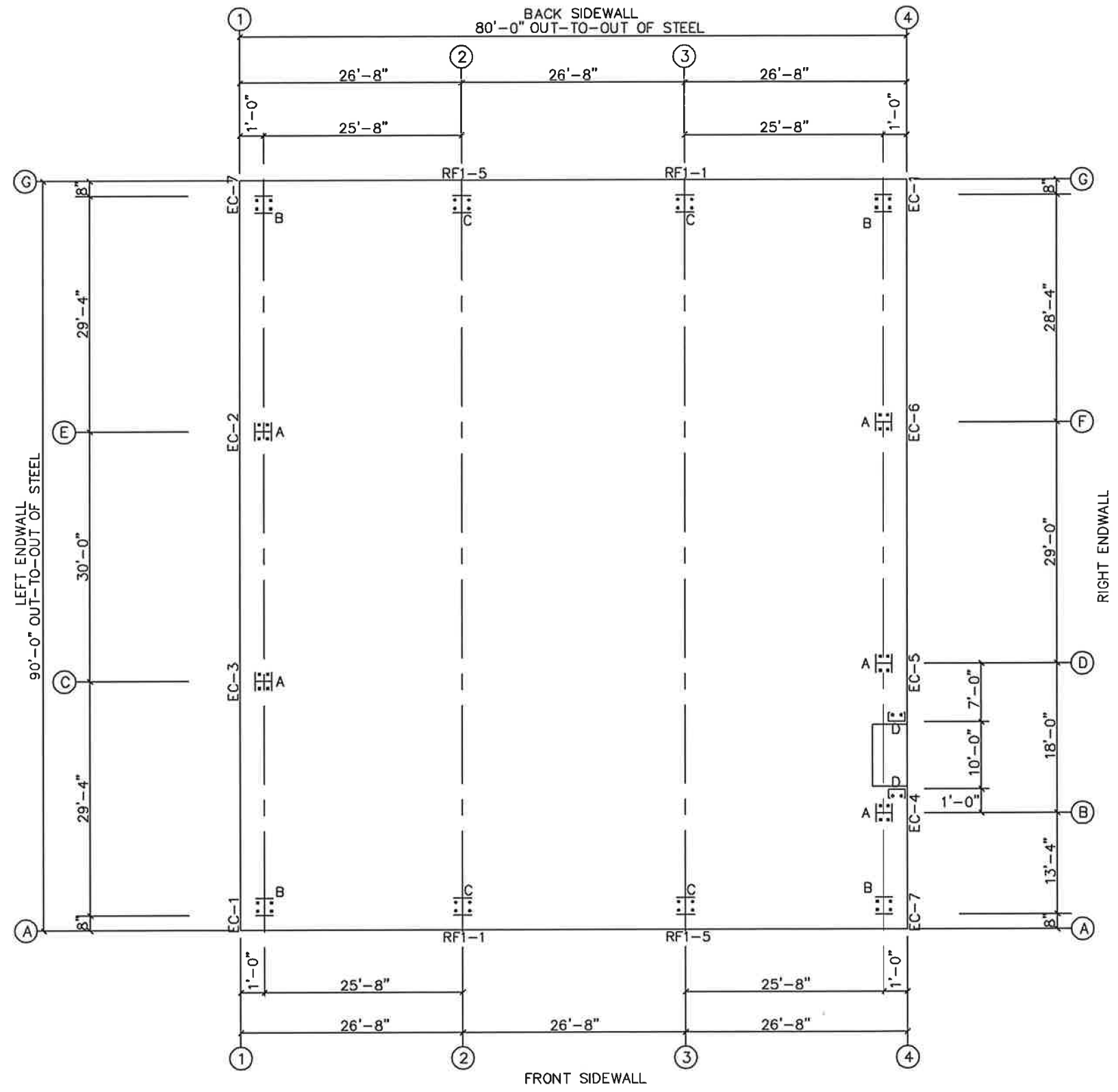
13. SAFETY COMMITMENT: MBM has a commitment to manufacture quality building components that can be safely erected. However, the safety commitment and job site practices of the erector are beyond the control of MBM. It is strongly recommended that safe working conditions and accident prevention practices be the top priority of any job site. Make sure that all Local, State, and Federal safety and health standards are always followed. Insure that employees are aware and trained in emergency procedures.

14. Please note OSHA now requires the first girt placed in all lapping conditions be firmly attached prior to placing the second lapped girt.

THESE DRAWINGS ARE SUBMITTED FOR CONSTRUCTION AND ARE DESIGNED TO BE FINAL DRAWINGS. IT IS THE RESPONSIBILITY OF THE BUYER/END USER TO OBTAIN ALL NECESSARY PERMITS AND APPROVALS. THE DRAWINGS ARE THE SOLE PROPERTY OF WESTERN STEEL BUILDINGS AND ARE NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF WESTERN STEEL BUILDINGS.

ISSUED FOR CONSTRUCTION

PROJECT: 90X80 SHOP	BLDG SIZE: 90.00' x 80.00' x 29.50'	JOB NUMBER: WSB37662
2010 RULON WHITE BLVD OGDEN, UT	DESIGN: JLR	
CUSTOMER: KIMBERLY CLARK	DATE: 10/1/24	CHECK:
DWG NAME: GENERAL NOTES	SCALE: NONE	REV. NO:
		DRAWING NUMBER: SHEET 2 OF 15



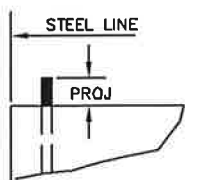
ANCHOR BOLT PLAN  
 NOTE: All Base Plates @ 100'-0" (U.N.)



**REVIEWED**  
 By Philip Perkins at 9:26 am, Nov 15, 2024

**ISSUED FOR CONSTRUCTION**

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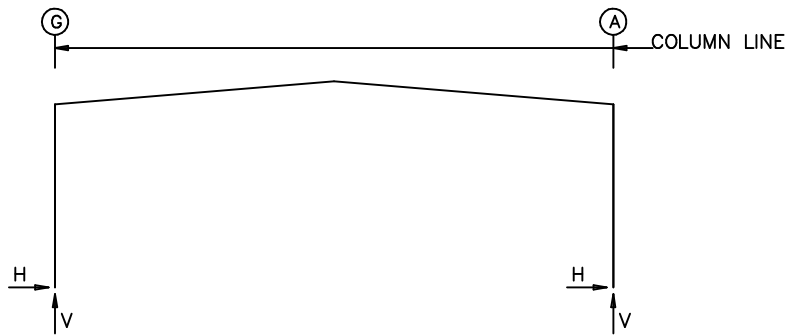
NOTE:  
 All dimensions shown on plans are from metal building steel line.  
 slab dimensions or notch dimensions are to be determined by contractor.

**WESTERN**  
 STEEL BUILDINGS

PH: 435-565-6882  
 Fax: 435-503-9467

PROJECT: 90X80 SHOP	BLDG SIZE: 90.00' x 80.00' x 29.50'	JOB NUMBER: WSB37662
2010 RULON WHITE BLVD OGDEN, UT	DESIGN: JLR	DRAWN: JLR
CUSTOMER: KIMBERLY CLARK	DATE: 10/1/24	CHECK: [ ]
DWG NAME: ANCHOR BOLT PLAN & DETAILS	SCALE: NONE	REV. NO: [ ]
		DRAWING NUMBER: SHEET 3 OF 15

FRAME LINES: 2 3



RIGID FRAME: MAXIMUM REACTIONS

Frm Line	Col Line	Load Id	Column_Reactions(k )				
			Hmax	V	Hmin	V	
2*	G	1	30.1	56.7	4	-8.7	-11.7
					6	-1.5	-14.2
2*	A	5	8.7	-11.7	2	-30.1	56.7
		2	-30.1	56.7	7	1.5	-14.2
2*	Frame lines: 2 3						

ENDWALL COLUMN: MAXIMUM REACTIONS

Frm Line	Col Line	Load Id	Column_Reactions(k )				
			Hmax	V	Hmin	V	
1	G	6	0.0	-2.9	11	-10.6	-10.4
		9	0.0	13.9			
1	E	12	6.2	-8.2	13	-5.6	-5.0
		14	0.0	22.6	12	6.2	-8.2
1	C	15	6.2	-8.2	16	-5.6	-5.0
		17	0.0	22.6	15	6.2	-8.2
1	A	7	0.0	-2.9	11	-10.6	-10.4
		9	0.0	13.9			
4	A	6	0.0	-1.3	11	-10.6	-10.6
		8	0.0	12.4			
4	B	18	3.1	-2.6	13	-2.8	-2.6
		19	0.0	9.3	18	3.1	-2.6
4	D	12	4.9	-7.7	13	-4.5	-4.2
		19	0.0	20.9	10	0.0	-8.2
4	F	15	6.0	-7.9	16	-5.4	-4.7
		20	0.0	21.0	15	6.0	-7.9
4	G	7	0.0	-2.8	11	-10.6	-10.4
		9	0.0	13.7			

BUILDING BRACING REACTIONS

Wall Loc	Col Line	Panel Line	± Reactions(k )				Panel_Shear (lb/ft)
			Wind Horz	Wind Vert	Seismic Horz	Seismic Vert	
L_EW	1	E,C	4.2	4.2	11.8	11.8	
F_SW	A	1,2	6.4	6.6	15.8	16.3	
		3,4	6.4	6.6	15.8	16.3	
R_EW	4	D,F	4.2	4.4	11.8	12.3	
B_SW	G	4,3	6.4	6.6	15.8	16.3	
		2,1	6.4	6.6	15.8	16.3	

Reactions for seismic represent shear force, Eh  
Reaction values shown are unfactored

NOTES FOR REACTIONS

Building reactions are based on the following building data:

Width	(ft)	=	90.0
Length	(ft)	=	80.0
Eave Height	(ft)	=	29.5/ 29.5
Roof Slope	(rise/12)	=	1.00/ 1.00
Roof Dead Load	(psf)	=	2.9
Wall Dead Load			
Left Endwall	(psf)	=	2.0
Right Endwall	(psf)	=	2.0
Front Sidewall	(psf)	=	2.0
Back Sidewall	(psf)	=	2.0
Live Load	(psf)	=	20.0
Collateral Load	(psf)	=	5.0
Snow Load	(psf)	=	36.1
Wind Speed	(mph)	=	115.0
Wind Code		=	IBC 21
Exposure		=	C
Closure		=	Enclosed
Internal Wind Coeff		=	-0.18, +0.18
Risk Category		=	II - Normal
Importance - Wind		=	1.00
Importance - Seismic		=	1.00
Seismic Design Category		=	D
Seismic Coeff	(Sms)	=	1.77

ID Description

1	Dead+Collateral+Snow
2	Dead+Collateral+Snow+Snow_Drift
3	Dead+Collateral+Snow+Slide_Snow
4	0.6Dead+0.6Wind_Left1
5	0.6Dead+0.6Wind_Right1
6	0.6Dead+0.6Wind_Long1L
7	0.6Dead+0.6Wind_Long2L
8	1.17Dead+1.17Collateral+0.7Seismic_LongR
9	1.12Dead+1.12Collateral+0.75Live+0.53Seismic_LongR
10	0.43Dead+0.7Seismic_Left
11	0.43Dead+0.7Seismic_LongL
12	0.6Dead+0.6Wind_Left1+0.6Wind_Suction
13	0.6Dead+0.6Wind_Pressure+0.6Wind_Long1L
14	Dead+Collateral+E1UNB_SL_L
15	0.6Dead+0.6Wind_Right1+0.6Wind_Suction
16	0.6Dead+0.6Wind_Pressure+0.6Wind_Long2L
17	Dead+Collateral+E1UNB_SL_R
18	0.6Dead+0.6Wind_Suction+0.6Wind_Long1L
19	Dead+Collateral+E2UNB_SL_L
20	Dead+Collateral+E2UNB_SL_R

GENERAL NOTES

- METAL BUILDING MANUFACTURER ASSUMES NO RESPONSIBILITY OR LIABILITY FOR FOUNDATION DESIGN OR CONSTRUCTION.
- THE FOUNDATION DESIGN SHOULD BE DONE WITH DUE REGARD TO EXISTING SOILS CONDITIONS FOR THE DESIGN LOADS AT THE ACTUAL JOB SITE.
- ANCHOR BOLT DIAMETERS WERE DETERMINED BY THE AISC ALLOWABLE SHEAR-TENSION METHOD USING (Fy = 36 ksi)
- ANCHOR BOLT LENGTH & METHOD OF TRANSFER OF FORCES FROM ANCHOR BOLTS TO THE FOUNDATION ARE TO BE DETERMINED BY OTHERS. IT IS RECOMMENDED THAT AN EXPERIENCED DESIGN PROFESSIONAL DETERMINE THIS METHOD.
- BOTTOMS OF ALL BASE PLATES ARE AT THE SAME ELEVATION UNLESS NOTED.
- ANCHOR BOLTS ARE NOT SUPPLIED BY THE METAL BUILDING MANUFACTURER.
- IT IS THE RESPONSIBILITY OF THE ERECTOR TO PROVIDE FOR ALL TEMPORARY BRACING AS WELL AS A PLAN FOR INSTALLING IT. THIS INCLUDES SIZES, TYPE, LOCATION, AND QUANTITY.

ANCHOR BOLT SUMMARY

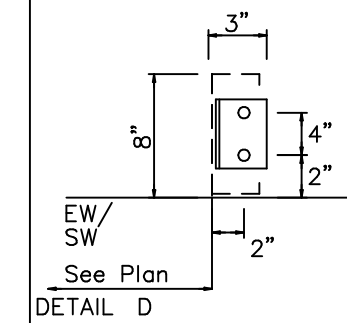
Qty	Locate	Dia (in)	Type	Proj (in)
4	Jamb	1/2"	WEDGE	
36	Endwall	3/4"	F1554	2.50
16	Frame	1"	F1554	3.00



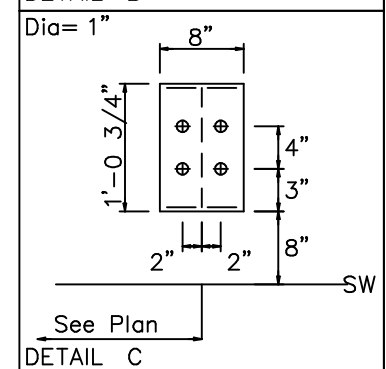
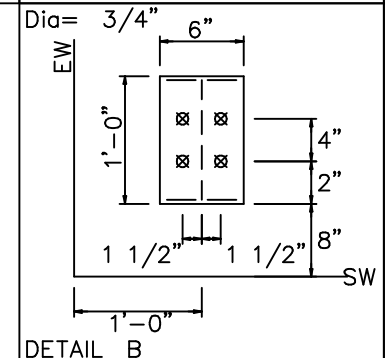
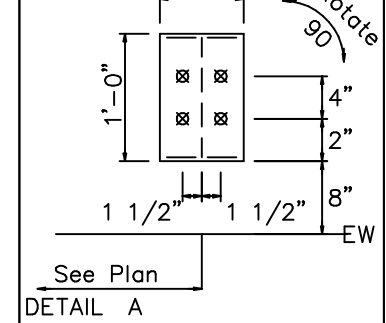
**REVIEWED**

By Philip Perkins at 9:26 am, Nov 15, 2024

Dia= 1/2"



Dia= 3/4"



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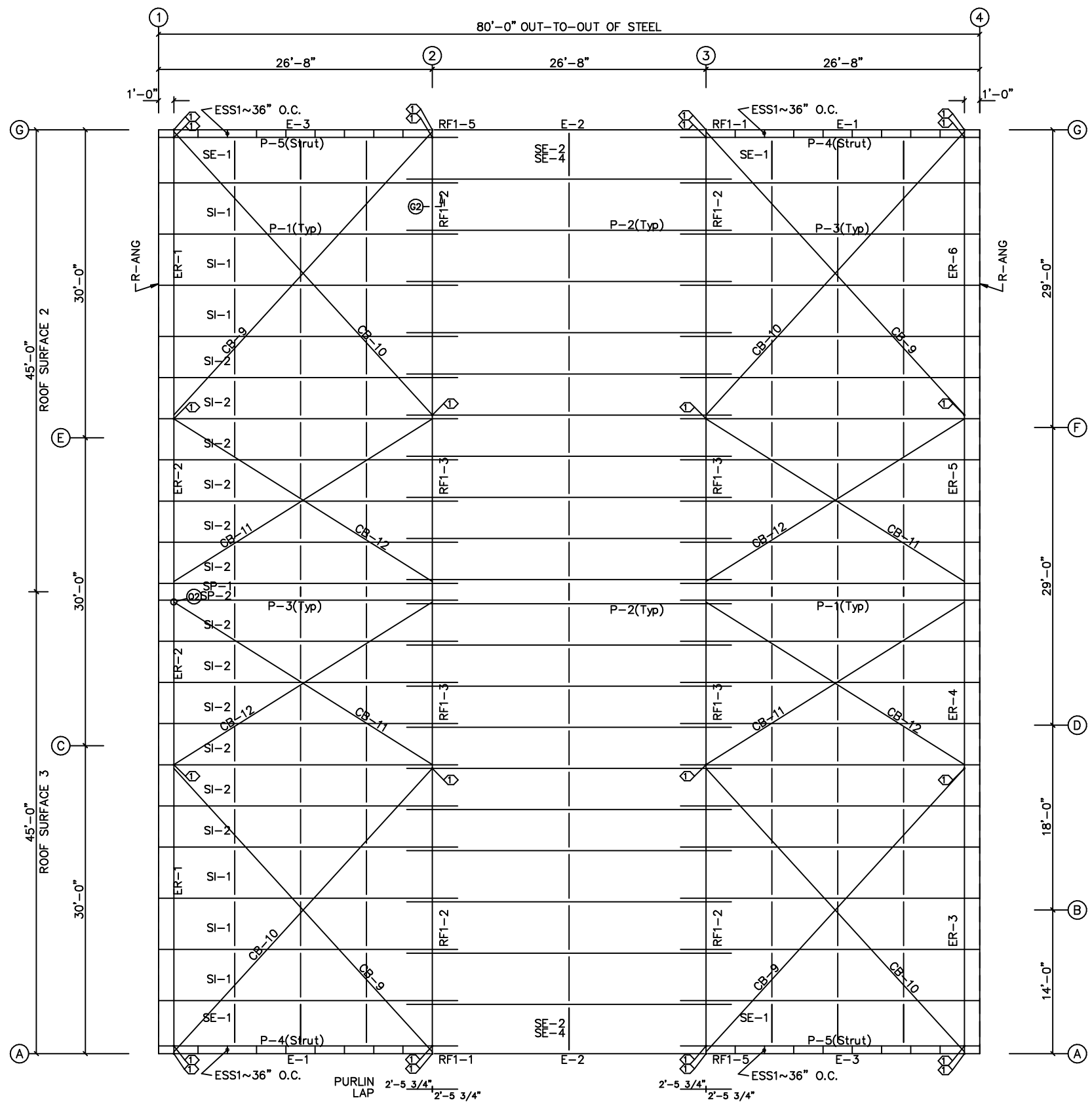
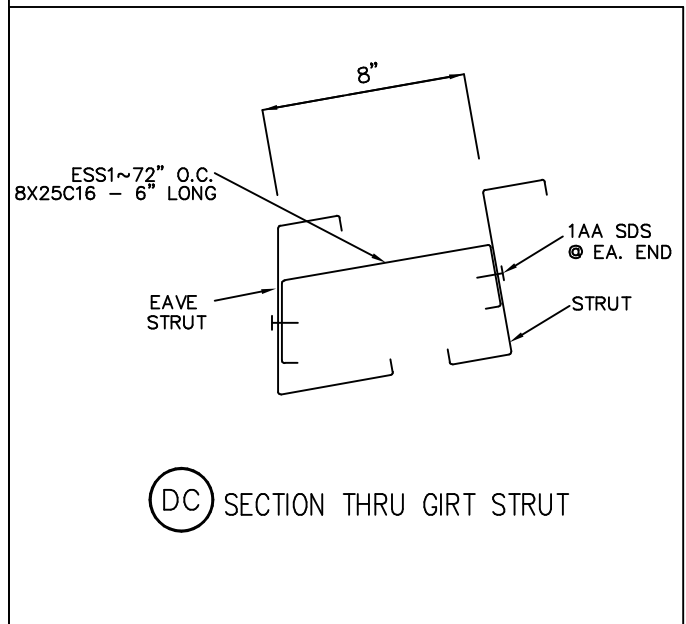
PH: 435-565-6882  
Fax: 435-503-9467

PROJECT:	BLDG SIZE:	JOB NUMBER
90X80 SHOP	90.00' x 80.00' x 29.50'	WSB37662
2010 RULON WHITE BLVD OGDEN, UT	DESIGN: JLR	
CUSTOMER: KIMBERLY CLARK	DATE: 11/4/24	CHECK:
DWG NAME: ANCHOR BOLT DETAILS & REACTIONS	SCALE: NONE	REV. NO:
		DRAWING NUMBER
		SHEET 4 OF 15

SPECIAL BOLTS					
ROOF PLAN					
Q ID	QUAN	TYPE	DIA	LENGTH	WASH
1	4	A325	1/2"	11 1/4"	2

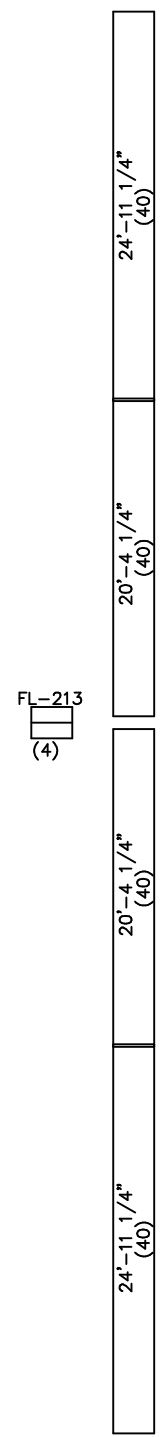


**REVIEWED**  
By Philip Perkins at 9:26 am, Nov 15, 2024



MEMBER TABLE			
FRAME LINE			
QTY	MARK	PART	LENGTH
20	P-1	12X25Z12	29'-1 1/2"
20	P-2	12X25Z12	31'-7 1/2"
20	P-3	12X25Z12	29'-1 1/2"
2	P-4	12X25Z14	29'-1 1/2"
2	P-5	12X25Z14	29'-1 1/2"
2	E-1	12E14.1	26'-7 1/2"
2	E-2	12E14.1	26'-7 1/2"
2	E-3	12E14.1	26'-7 1/2"
4	CB-9	HW-380	37'-5 1/2"
4	CB-10	HW-380	36'-10"
4	CB-11	HW-374	30'-6 3/4"
4	CB-12	HW-374	30'-11"
7	SP-1	PeakStab	2'-1 7/16"
7	SP-2	PeakStab	2'-0 3/4"
84	SI-1	Int-Ang	5'-2 1/16"
168	SI-2	Int-Ang	4'-2 1/4"
24	SE-1	Ev-Ang	4'-6 13/16"
2	SE-2	Ev-Ang	5'-2 5/16"
2	SE-4	Ev-Ang	5'-2 5/8"
32	ESS1		6"

TRIM TABLE			
Q	PART	LENGTH	DETAIL
0	FL-213	20'-6"	TRIM_50



- GENERAL NOTES:**
- The purlins will have one leg with a wider flange, and should be facing in opposite directions at each adjacent bay. (wide leg up, wide leg down, etc.)
  - All purlins are bolted in place with (2) 1/2"x1-1/4" A307 bolts on a diagonal pattern at the clip and (2) 1/2"x1-1/4" A307 bolts at each end of the lap (6-bolts total per connection see detail drawings)
  - Eave struts are bolted with (2) 1/2"x1-1/4" A307 bolts at each end, also supplied are eave strut cover angles to fit on top of the joint between the struts to close off the gap and eliminate light penetration.
  - If sag angle is shown on this plan, secure in place by bending tabs over as shown in detail drawings. Note: PBR panels only require one run of sag angle in bottom set of slots, Standing Seam panels require double runs of sag angle, the purlins are always provided with a (4) slot pattern, alternate left to right at each adjacent purlin space.
  - Roof sheeting should be installed with the correct laps, overhangs, and screw patterns as shown in the detail drawings.
  - It is the responsibility of the erector to provide all temporary bracing as well as a plan for installing and securing it. This includes size, type, location, and quantity.
  - Hanging loads suspended from purlins shall be attached to the purlin webs so as to prevent distortion of the purlin flanges. Hanging loads shall not be attached to the lips of the purlins. Any attachment that is not made directly to the purlin web shall be submitted for review. In no case shall the load applied to a single purlin exceed 150 lb.

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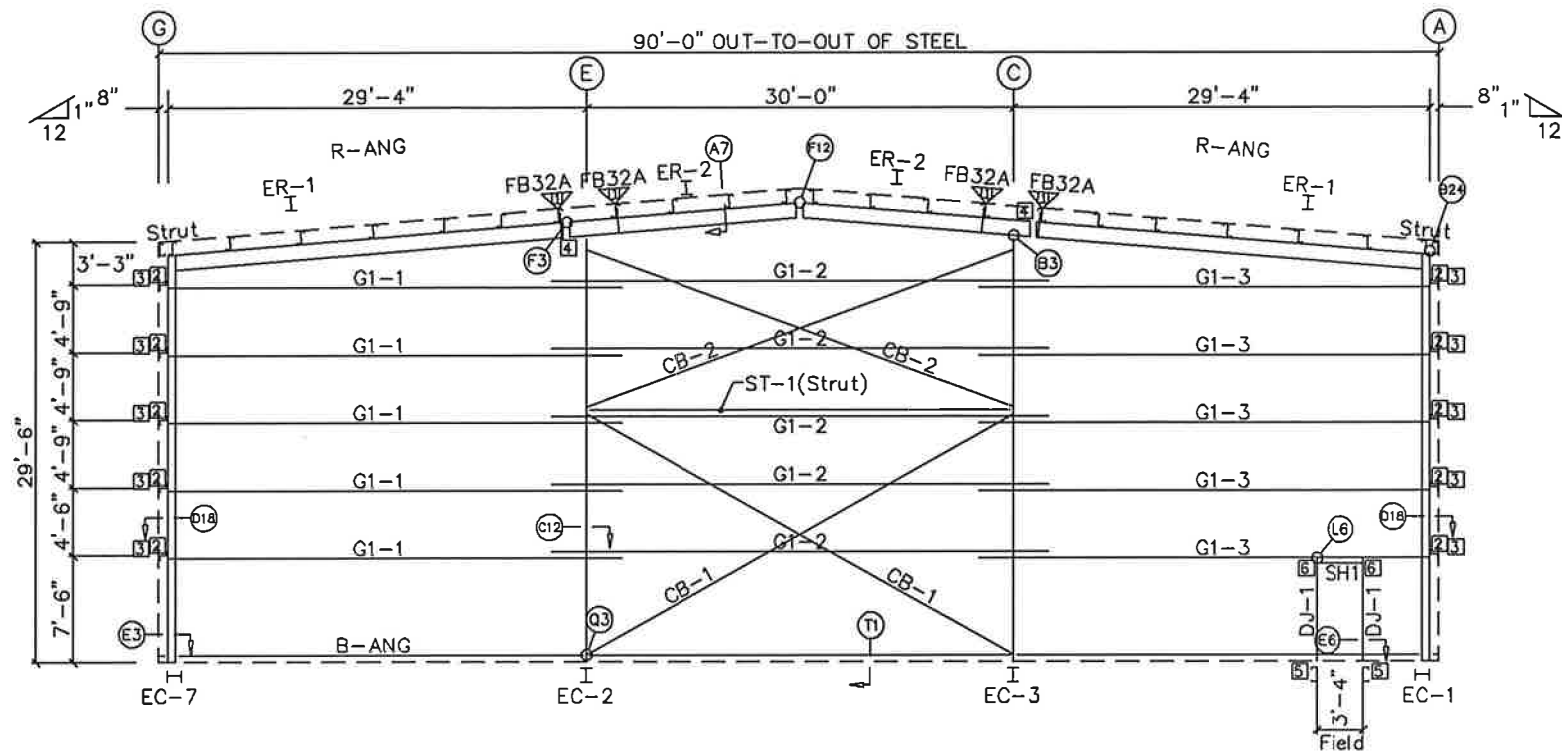
**ROOF FRAMING PLAN**



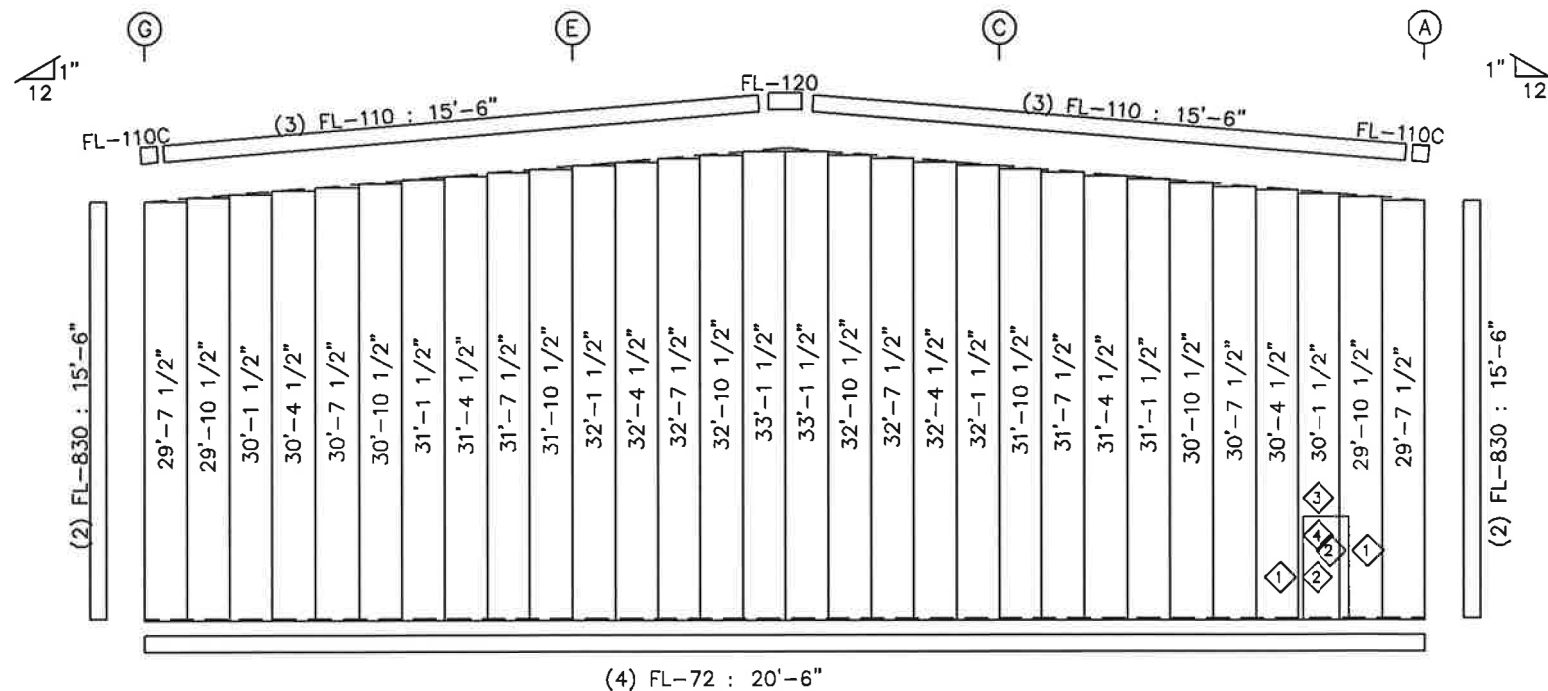
PH: 435-565-6882  
Fax: 435-503-9467

PROJECT: 90X80 SHOP	BLDG SIZE: 90.00' x 80.00' x 29.50'	JOB NUMBER
2010 RULON WHITE BLVD OGDEN, UT	DESIGN: DRAWN: JLR	WSB37662
CUSTOMER: KIMBERLY CLARK	DATE: 11/4/24	CHECK:
DWG NAME: ROOF FRAMING	SCALE: NONE	REV. NO:
		DRAWING NUMBER
		SHEET 5 OF 15

**ROOF SHEETING**  
PANELS: 24 Ga. TSS  
Galvalume



LEFT ENDWALL FRAMING: FRAME LINE 1



LEFT ENDWALL SHEETING & TRIM: FRAME LINE 1  
PANELS: 26 Ga. PR - POLAR WHITE

GIRT @ 7'-6"  
"SH" HEADER @ 7'-2"  
17A SDS 12 O.C.  
SECTION THRU "SH" HEADER

BOLT TABLE				
FRAME LINE 1				
LOCATION	QUAN	TYPE	DIA	LENGTH
Cor_Column/Raf	4	A325	1/2"	1 1/4"
ER-1/ER-2	4	A325	3/4"	1 1/2"
ER-2/ER-2	8	A325	3/4"	2 1/4"
Int_Column/Raf	4	A325	1/2"	1 1/4"
Strut	4	A325	1/2"	1 1/4"

TRIM TABLE			
FRAME LINE 1			
QID	MARK	LENGTH	DETAIL
	FL-110	15'-6"	TRIM_46
	FL-830	15'-6"	TRIM_12
1	FL-37	7'-6"	TRIM_18
2	FL-22	7'-6"	TRIM_18
3	37-SH	3'-6"	TRIM_18
4	FL-24	4'-6"	TRIM_19

MEMBER TABLE			
FRAME LINE 1			
QTY	MARK	PART	LENGTH
1	EC-1	W12641	28'-7 5/8"
1	EC-2	W12641	30'-0 3/16"
1	EC-3	W12641	30'-0 3/16"
1	EC-7	W12641	28'-7 5/8"
2	ER-1	W12661	27'-2 5/8"
2	ER-2	W12661	16'-3 15/16"
2	DJ-1	08X25C16	7'-3"
5	G1-1	08X25Z12	31'-9 1/2"
5	G1-2	08X25Z12	34'-11 1/2"
5	G1-3	08X25Z12	31'-9 1/2"
1	ST-1	W08841	29'-11 3/4"
2	CB-1	0.88_ROD	34'-0 5/16"
2	CB-2	0.88_ROD	32'-10"
1	SH-1	08X5X14	3'-3 1/2"

CONNECTION PLATES		
FRAME LINE 1		
QID	QUAN	MARK/PART
1	4	k12
2	10	r1
3	10	ZGF
4	2	h2
5	2	c1
6	2	b2

FLANGE BRACE TABLE		
FRAME LINE 1		
QID	MARK	LENGTH
1	FB32A	2'-8"



**REVIEWED**  
By Philip Perkins at 9:26 am, Nov 15, 2024

**ISSUED FOR CONSTRUCTION**

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**GENERAL NOTES:**

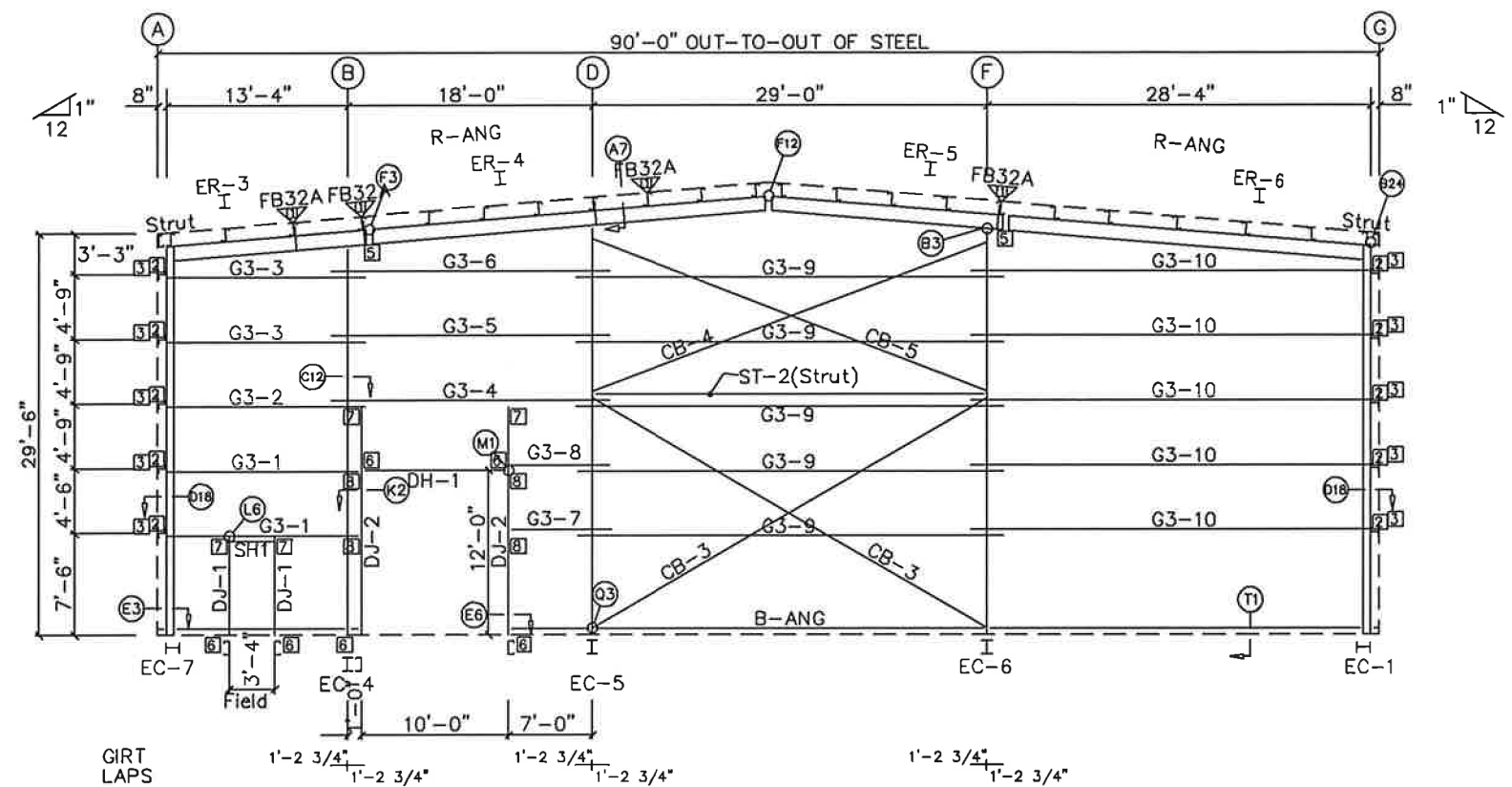
1. Sheets on buildings with roof slopes greater than 1-1/4"/12" must be field cut to cope with slope of roof.
2. Screw patterns for sheeting shall be to use 3ea screws at the bottom, top, and at each girt. Space these screws equally at about 1" off of each panel rib. Lap screws should be placed at bottom, top, each girt, two (2) equally spaced between base and first girt, and one (1) at the midpoint between all other girts. Tek5 Drillers are supplied as needed for non secondary steel.
3. Man doors are to be field located per customer and contractor shall install door frame stiffener angles on the back of each 'lock-side' of jambs at approx. 3'-4" up on frames down to base angle (channel) at 30-45deg. Extra base angle supplied for contractor to field cut as needed.
4. All girts are bolted in place with (2) 1/2"x1-1/4" A307 bolts on a diagonal pattern at the clip and (2) 1/2"x1-1/4" A307 bolts at each end of the lap (6-bolts total per connection see detail drawings)
5. It is the responsibility of the erector to provide all temporary bracing and a plan for installing it. This includes size, type, location, and q'ty.



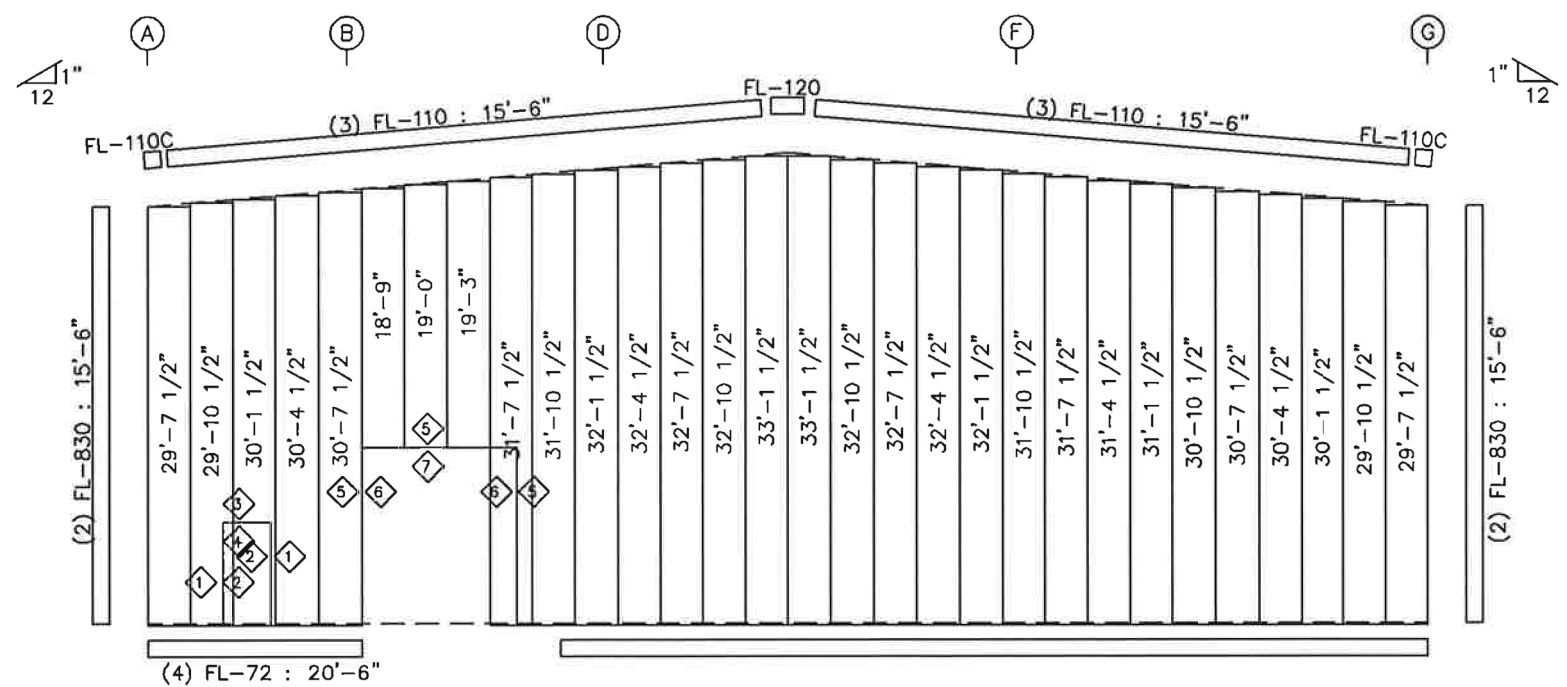
PH: 435-565-6882  
Fax: 435-503-9467

PROJECT: 90X80 SHOP	BLDG SIZE: 90.00' x 80.00' x 29.50'	JOB NUMBER
2010 RULON WHITE BLVD OGDEN, UT	DESIGN: DRAWN: JLR	WSB37662
CUSTOMER: KIMBERLY CLARK	DATE: 10/1/24	CHECK:
DWG NAME: ENDWALL FRAMING	SCALE: NONE	REV. NO:
		DRAWING NUMBER
		SHEET 6 OF 15





RIGHT ENDWALL FRAMING: FRAME LINE 4



RIGHT ENDWALL SHEETING & TRIM: FRAME LINE 4

PANELS: 26 Ga. PR - POLAR WHITE

GIRT @ 7'-6"  
 "SH" HEADER @ 7'-2"  
 17A SDS 12 O.C.  
 SECTION THRU "SH" HEADER

CONNECTION PLATES  
FRAME LINE 4

ID	QUAN	MARK/PART
1	4	k12
2	10	r1
3	10	ZGF
4	1	h3
5	2	h2
6	6	c1
7	4	b2
8	4	b1

FLANGE BRACE TABLE  
FRAME LINE 4

VID	MARK	LENGTH
1	FB32A	2'-8"

BOLT TABLE  
FRAME LINE 4

LOCATION	QUAN	TYPE	DIA	LENGTH
Cor_Column/Raf	4	A325	1/2"	1 1/4"
ER-3/ER-4	4	A325	3/4"	1 1/2"
ER-4/ER-5	8	A325	3/4"	2"
ER-5/ER-6	4	A325	3/4"	1 1/2"
Int_Column/Raf	4	A325	1/2"	1 1/4"
Strut	4	A325	1/2"	1 1/4"

TRIM TABLE  
FRAME LINE 4

ID	MARK	LENGTH	DETAIL
FL-110		15'-6"	TRIM_46
FL-830		15'-6"	TRIM_12
1 FL-37		7'-6"	TRIM_18
2 FL-22		7'-6"	TRIM_18
3 37-SH		3'-6"	TRIM_18
4 FL-24		4'-6"	TRIM_19
5 FL-37		12'-6"	TRIM_18
6 FL-22		12'-6"	TRIM_18
7 FL-24		10'-6"	TRIM_19

MEMBER TABLE  
FRAME LINE 4

QTY	MARK	PART	LENGTH
1	EC-1	WI2641	28'-7 5/8"
1	EC-4	WI2641	28'-8 3/16"
1	EC-5	WI2641	30'-2 3/16"
1	EC-6	WI2641	29'-11 3/16"
1	EC-7	WI2641	28'-7 5/8"
1	ER-3	WI2651	14'-2"
1	ER-4	WI2651	29'-4 9/16"
1	ER-5	WI2651	17'-11 15/16"
1	ER-6	WI2651	25'-6 5/8"
2	DJ-1	O8X25C16	7'-3"
2	DJ-2	O8X25C14	16'-6"
1	DH-1	O8X25C16	9'-11 1/2"
2	G3-1	O8X25Z16	13'-11 3/4"
1	G3-2	O8X25Z16	14'-6 1/2"
2	G3-3	O8X25Z16	14'-6 1/2"
1	G3-4	O8X25Z16	20'-5 1/2"
1	G3-5	O8X25Z16	20'-5 1/2"
1	G3-6	O8X25Z14	20'-5 1/2"
1	G3-7	O8X25Z14	7'-10 3/4"
1	G3-8	O8X25Z16	7'-10 3/4"
5	G3-9	O8X25Z12	31'-5 1/2"
5	G3-10	O8X25Z12	29'-6 1/2"
1	ST-2	W08841	28'-11 3/4"
2	CB-3	0.88_ROD	33'-1 3/4"
1	CB-4	0.88_ROD	32'-0 3/4"
1	CB-5	0.88_ROD	32'-1 3/4"
1	SH-1	O8X5X14	3'-3 1/2"



**REVIEWED**  
 By Philip Perkins at 9:26 am, Nov 15, 2024

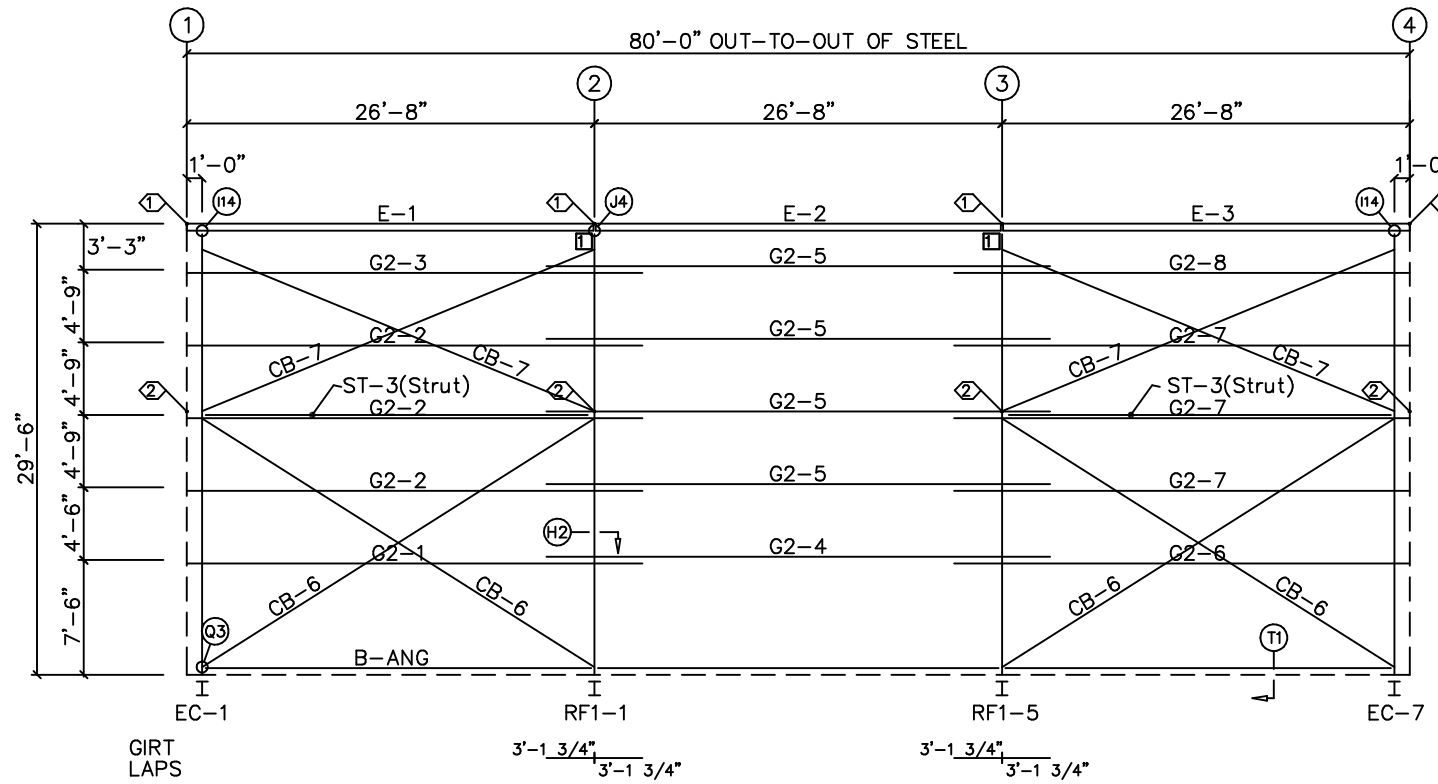
**ISSUED FOR CONSTRUCTION**

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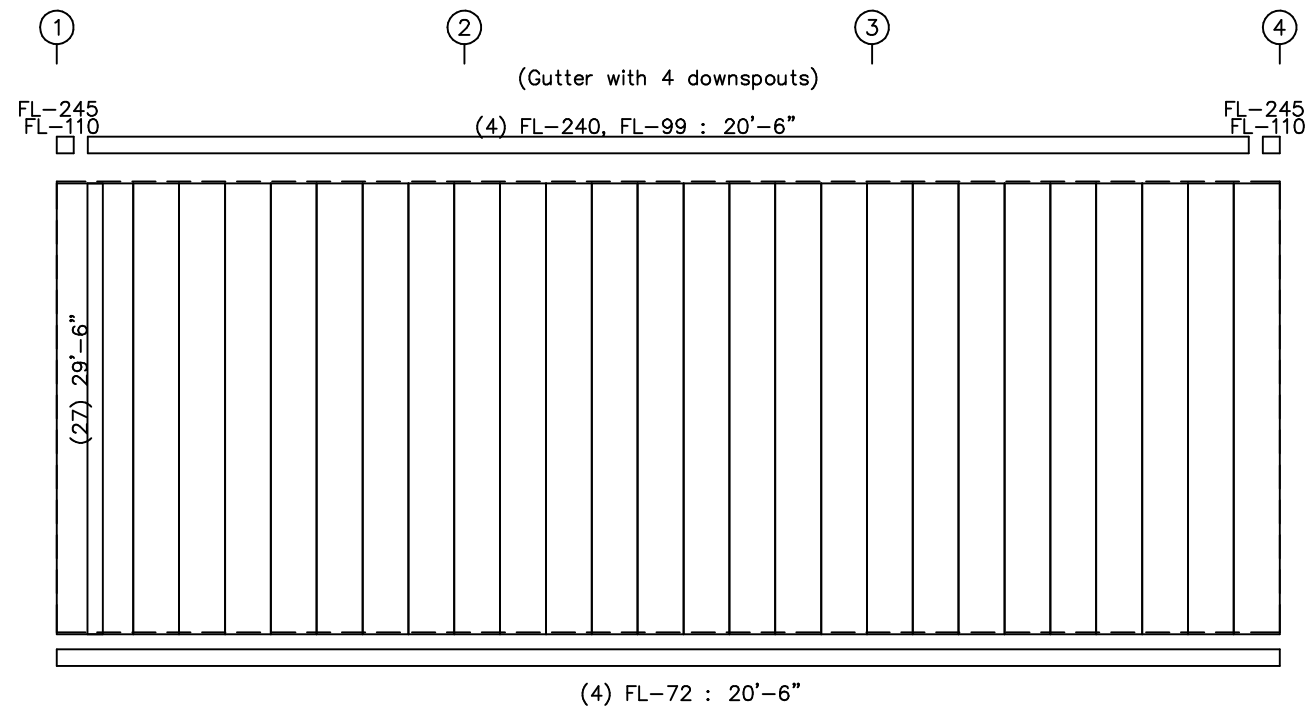
- GENERAL NOTES:
1. Sheets on buildings with roof slopes greater than 1-1/4"/12" must be field cut to cope with slope of roof.
  2. Screw patterns for sheeting shall be to use 3ea screws at the bottom, top, and at each girt. Space these screws equally at about 1" off of each panel rib. Lap screws should be placed at bottom, top, each girt, two (2) equally spaced between base and first girt, and one (1) at the midpoint between all other girts. Tek5 Drillers are supplied as needed for non secondary steel.
  3. Man doors are to be field located per customer and contractor shall install door frame stiffener angles on the back of each 'lock-side' of jambs at approx. 3'-4" up on frames down to base angle (channel) at 30-45deg. Extra base angle supplied for contractor to field cut as needed.
  4. All girts are bolted in place with (2) 1/2"x1-1/4" A307 bolts on a diagonal pattern at the clip and (2) 1/2"x1-1/4" A307 bolts at each end of the lap (6-bolts total per connection see detail drawings)
  5. It is the responsibility of the erector to provide all temporary bracing and a plan for installing it. This includes size, type, location, and q'ty.

**WESTERN STEEL BUILDINGS**  
 PH: 435-565-6882  
 Fax: 435-503-9467

PROJECT: 90X80 SHOP	BLDG SIZE: 90.00' x 80.00' x 29.50'	JOB NUMBER: WSB37662
2010 RULON WHITE BLVD OGDEN, UT	DESIGN: JLR	
CUSTOMER: KIMBERLY CLARK	DATE: 10/1/24	CHECK:
DWG NAME: ENDWALL FRAMING	SCALE: NONE	REV. NO:
		DRAWING NUMBER: SHEET 7 OF 15



FRONT SIDEWALL FRAMING: FRAME LINE A



FRONT SIDEWALL SHEETING & TRIM: FRAME LINE A

PANELS: 26 Ga. PR - POLAR WHITE

BOLT TABLE				
FRAME LINE A				
LOCATION	QUAN	TYPE	DIA	LENGTH
Strut	4	A325	1/2"	1 1/4"

TRIM TABLE			
FRAME LINE A			
OID	MARK	LENGTH	DETAIL
FL-240		20'-6"	TRIM_65

SPECIAL BOLTS					
OID	QUAN	TYPE	DIA	LENGTH	WASH
1	4	A325	1/2"	1 1/4"	2
2	4	A325	1/2"	1 1/4"	0

MEMBER TABLE				
FRAME LINE A				
QTY	MARK	PART	LENGTH	
1	E-1	12E14.1	26'-7 1/2"	
1	E-2	12E14.1	26'-7 1/2"	
1	E-3	12E14.1	26'-7 1/2"	
1	G2-1	08X25Z12	29'-9 1/2"	
3	G2-2	08X25Z14	29'-9 1/2"	
1	G2-3	08X25Z16	29'-9 1/2"	
1	G2-4	08X25Z14	32'-11 1/2"	
4	G2-5	08X25Z16	32'-11 1/2"	
1	G2-6	08X25Z12	29'-9 1/2"	
3	G2-7	08X25Z14	29'-9 1/2"	
1	G2-8	08X25Z16	29'-9 1/2"	
2	ST-3	W08841	25'-7 7/8"	
4	CB-6	1.00_ROD	30'-3 5/16"	
4	CB-7	1.00_ROD	28'-5"	

CONNECTION PLATES			
FRAME LINE A			
OID	QUAN	MARK/PART	
1	2	k1	



**REVIEWED**

By Philip Perkins at 9:26 am, Nov 15, 2024

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**GENERAL NOTES:**

- Screw patterns for sheeting shall be to use 3ea screws at the bottom, top, and at each girt. Space these screws equally at about 1" off of each panel rib. Lap screws should be placed at bottom, top, each girt, two (2) equally spaced between base and first girt, and one (1) at the midpoint between all other girts. Tek5 Drillers are supplied as needed for non secondary steel.
- Cut sheets as needed to cope to framed openings.
- Man doors are to be field located per customer and contractor shall install door frame stiffener angles on the back of each 'lock-side' of jambs at approx. 3'-4' up on frames, down to the base angle (channel) at 30-45 deg. Extra base angle supplied for contractor to field cut as needed.
- All girts are bolted in place with (2) 1/2"x1-1/4" A307 bolts on a diagonal pattern at the clip and (2) 1/2"x1-1/4" A307 bolts at each end of the lap (6-bolts total per connection see detail drawings)
- It is the erectors responsibility to provide all temporary bracing and a plan for installing it. This includes sizes, types, location and quantity.



PH: 435-565-6882  
Fax: 435-503-9467

PROJECT: 90X80 SHOP	BLDG SIZE: 90.00' x 80.00' x 29.50'	JOB NUMBER
2010 RULON WHITE BLVD OGDEN, UT	DESIGN: JLR	WSB37662
CUSTOMER: KIMBERLY CLARK	DATE: 11/4/24	CHECK:
DWG NAME: SIDEWALL FRAMING	SCALE: NONE	REV. NO:
		DRAWING NUMBER
		SHEET 8 OF 15

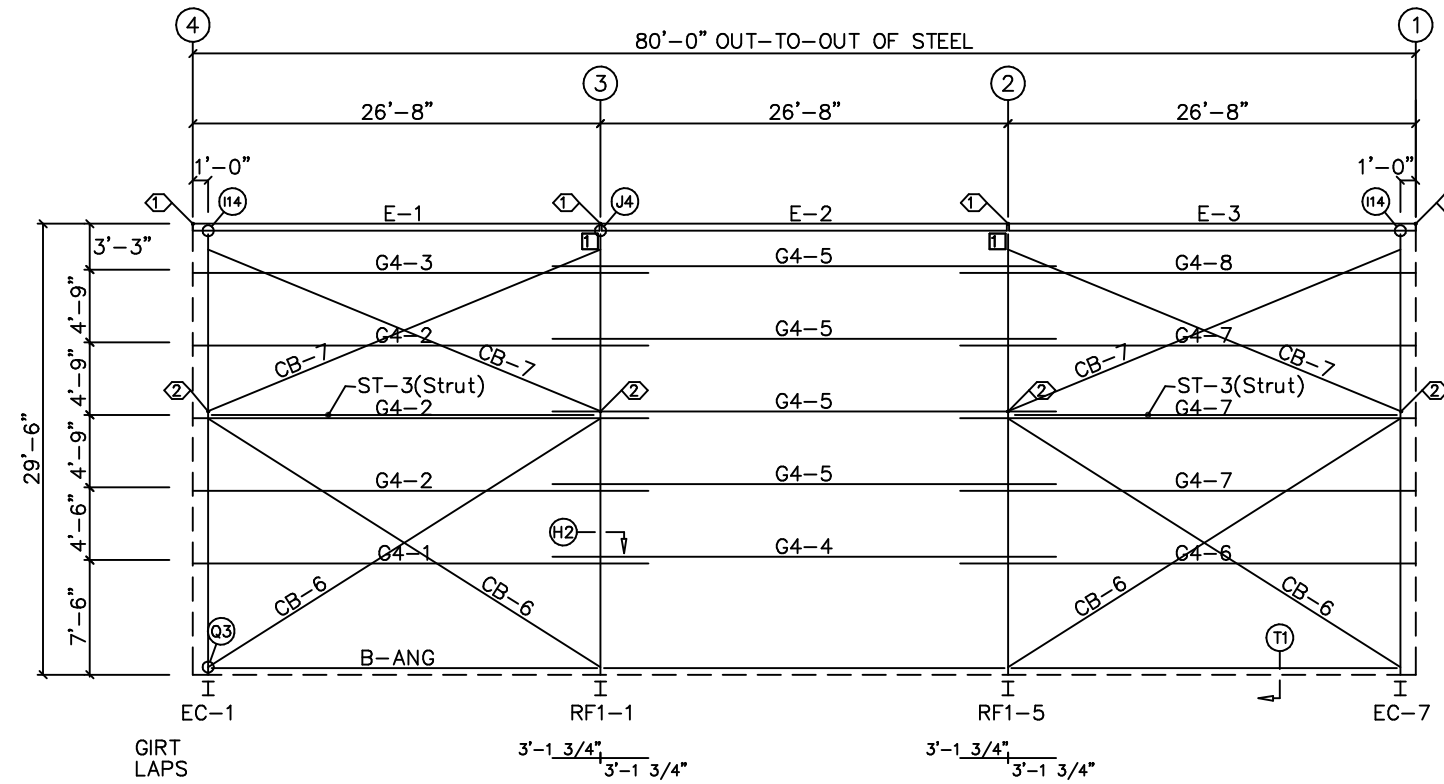
BOLT TABLE				
FRAME LINE G				
LOCATION	QUAN	TYPE	DIA	LENGTH
Strut	4	A325	1/2"	1 1/4"

TRIM TABLE			
FRAME LINE G			
OID	MARK	LENGTH	DETAIL
FL-240		20'-6"	TRIM_65

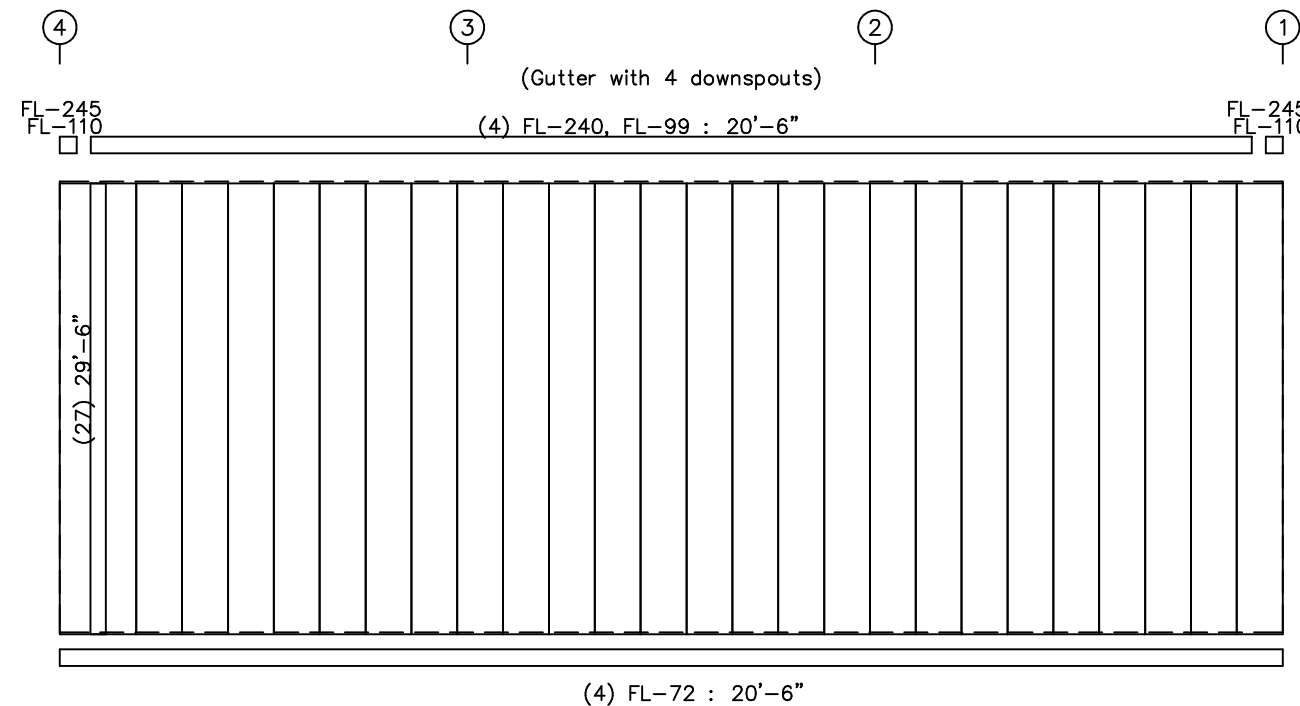
SPECIAL BOLTS					
OID	QUAN	TYPE	DIA	LENGTH	WASH
1	4	A325	1/2"	1 1/4"	2
2	4	A325	1/2"	1 1/4"	0

MEMBER TABLE			
FRAME LINE G			
QTY	MARK	PART	LENGTH
1	E-1	12E14.1	26'-7 1/2"
1	E-2	12E14.1	26'-7 1/2"
1	E-3	12E14.1	26'-7 1/2"
1	G4-1	08X25Z12	29'-9 1/2"
3	G4-2	08X25Z14	29'-9 1/2"
1	G4-3	08X25Z16	29'-9 1/2"
1	G4-4	08X25Z14	32'-11 1/2"
4	G4-5	08X25Z16	32'-11 1/2"
1	G4-6	08X25Z12	29'-9 1/2"
3	G4-7	08X25Z14	29'-9 1/2"
1	G4-8	08X25Z16	29'-9 1/2"
2	ST-3	W08841	25'-7 7/8"
4	CB-6	1.00_ROD	30'-3 5/16"
4	CB-7	1.00_ROD	28'-5"

CONNECTION PLATES		
FRAME LINE G		
OID	QUAN	MARK/PART
1	2	kl



BACK SIDEWALL FRAMING: FRAME LINE G



BACK SIDEWALL SHEETING & TRIM: FRAME LINE G

PANELS: 26 Ga. PR - POLAR WHITE



**REVIEWED**  
By Philip Perkins at 9:26 am, Nov 15, 2024

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- GENERAL NOTES:**
- Screw patterns for sheeting shall be to use 3ea screws at the bottom, top, and at each girt. Space these screws equally at about 1" off of each panel rib. Lap screws should be placed at bottom, top, each girt, two (2) equally spaced between base and first girt, and one (1) at the midpoint between all other girts. Tek5 Drillers are supplied as needed for non secondary steel.
  - Cut sheets as needed to cope to framed openings.
  - Man doors are to be field located per customer and contractor shall install door frame stiffener angles on the back of each 'lock-side' of jambs at approx. 3'-4' up on frames, down to the base angle (channel) at 30-45 deg. Extra base angle supplied for contractor to field cut as needed.
  - All girts are bolted in place with (2) 1/2"x1-1/4" A307 bolts on a diagonal pattern at the clip and (2) 1/2"x1-1/4" A307 bolts at each end of the lap (6-bolts total per connection see detail drawings)
  - It is the erectors responsibility to provide all temporary bracing and a plan for installing it. This includes sizes, types, location and quantity.



PH: 435-565-6882  
Fax: 435-503-9467

PROJECT: 90X80 SHOP	BLDG SIZE: 90.00' x 80.00' x 29.50'	JOB NUMBER
2010 RULON WHITE BLVD OGDEN, UT	DESIGN: JLR	WSB37662
CUSTOMER: KIMBERLY CLARK	DATE: 11/4/24	CHECK:
DWG NAME: SIDEWALL FRAMING	SCALE: NONE	REV. NO:
		DRAWING NUMBER
		SHEET 9 OF 15

**SPLICE BOLT TABLE**

Mark	Qty		Int	Type	Dia	Length
	Top	Bot				
SP-1	8	4	6	A325	1"	3 1/2"
SP-2	4	4	2	A325	3/4"	2 1/4"
SP-3	4	4	4	A325	1"	2 1/2"

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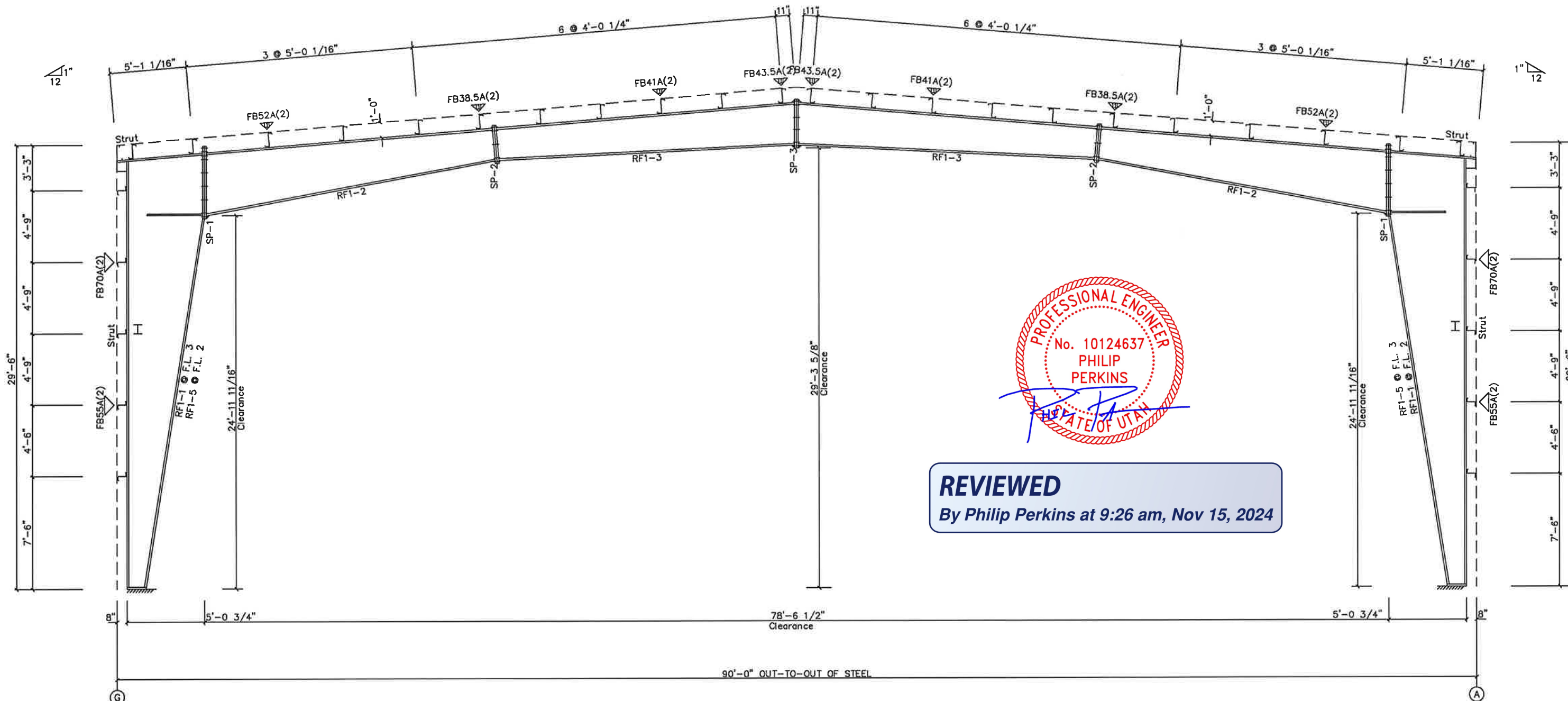
**MEMBER TABLE**

Mark	Web Depth		Web Plate		Outside Flange			Inside Flange		
	Start	End	Thick	Length	W	Thk	Length	W	Thk	Length
RF1-1	12.0	29.3	0.313	106.7	8	3/8"	x 341.6	8	3/8"	x 299.5
RF1-2	29.3	60.0	0.313	240.0	8	1/2"	x 68.6	8	1/2"	x 229.3
RF1-3	47.0	23.1	0.250	233.3	8	3/8"	x 240.0	8	3/8"	x 237.5

**CONNECTION PLATES**

ID	Mark/Part
1	k12

▽ FLANGE BRACES: (1) One Side; (2) Two Sides  
 FBxxA(1): xx=length(in)  
 A - L2X2X12g

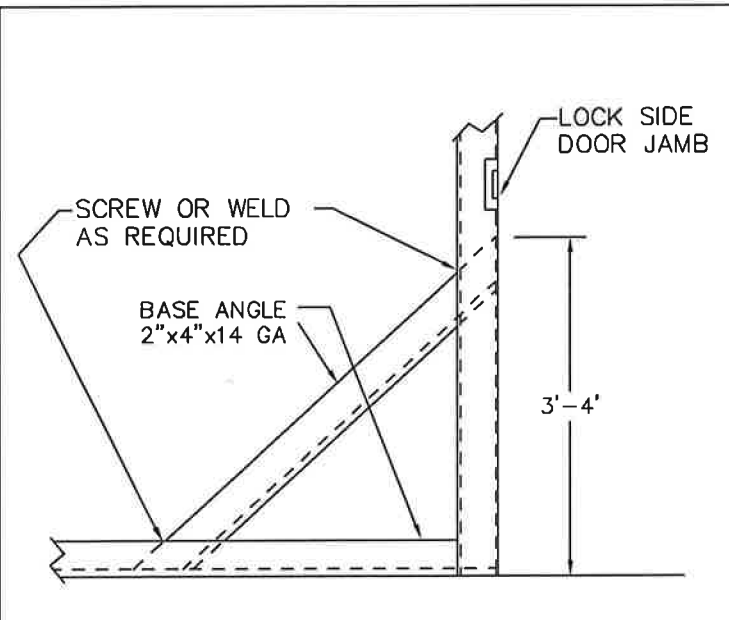


RIGID FRAME SECTION: FRAME LINE 2 3

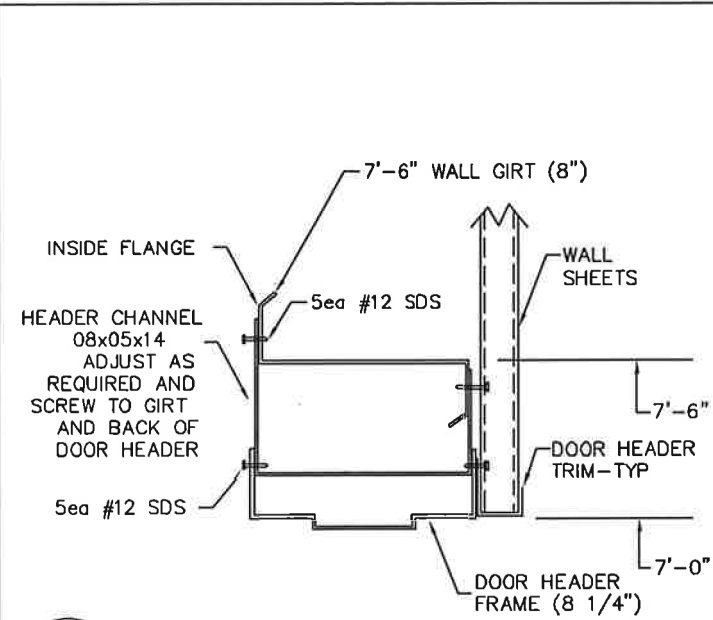
**GENERAL NOTES:**

1. ALL PRIMARY STRUCTURAL STEEL SHALL BE FABRICATED FROM 50 KSI STEEL.
2. ALL SECONDARY FRAMING MEMBERS SHALL BE FORMED FROM 55 KSI STEEL.
3. ALL FIELD CONNECTIONS OF PRIMARY FRAMING MEMBERS SHALL BE BOLTED WITH A325 H. S. BOLTS AND INSTALLED BY THE 'TURN OF THE NUT' METHOD.
4. ALL FIELD CONNECTIONS OF SECONDARY FRAMING SHALL BE BOLTED WITH A307 MACHINE BOLTS (or A325).
5. WELDING PROCESSES USED BY MANUFACTURER ARE IN ACCORDANCE WITH SEC. 1.3 OF AWS D 1.1
6. IT IS THE RESPONSIBILITY OF THE ERECTOR TO PROVIDE FOR ALL TEMPORARY BRACING AS WELL AS A PLAN FOR INSTALLING AND SECURING IT. THIS INCLUDES SIZES, TYPES, LOCATION, AND QUANTITIES. RIGID FRAMES SHOULD NEVER BE LEFT IN AN UNSUPPORTED, UNBRACED OR UNGUYED CONDITION. ADDITIONAL CARE SHOULD BE TAKEN WHEN ERECTING MULTI-SPAN FRAMES COMPARED TO CLEAR SPAN FRAMES BECAUSE OF THE LIGHTER SECTIONS THAT CAN BE UTILIZED DUE TO CLOSER SUPPORT SPACINGS.

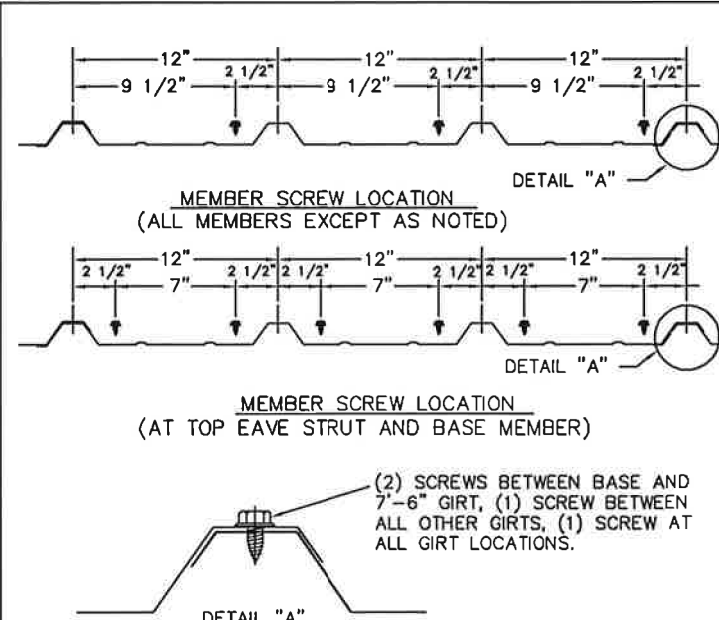
<p>PH: 435-565-6882 Fax: 435-503-9467</p>	PROJECT: 90X80 SHOP 2010 RULON WHITE BLVD OGDEN, UT	BLDG SIZE: 90.00' x 80.00' x 29.50' DESIGN: JLR DATE: 10/1/24	JOB NUMBER: WSB37662
	CUSTOMER: KIMBERLY CLARK DWG NAME: RIGID FRAME ELEVATION	SCALE: NONE REV. NO:	CHECK:



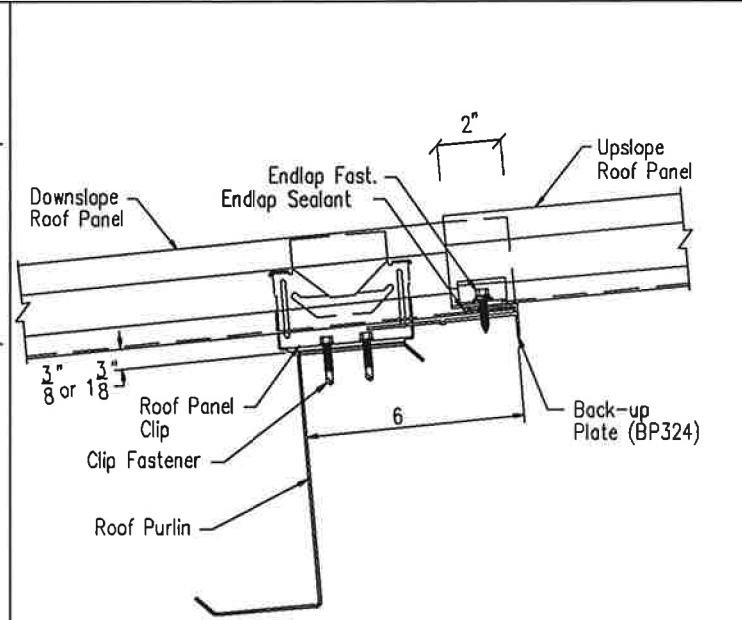
**K11** MANDOR JAMB BRACE ANGLE



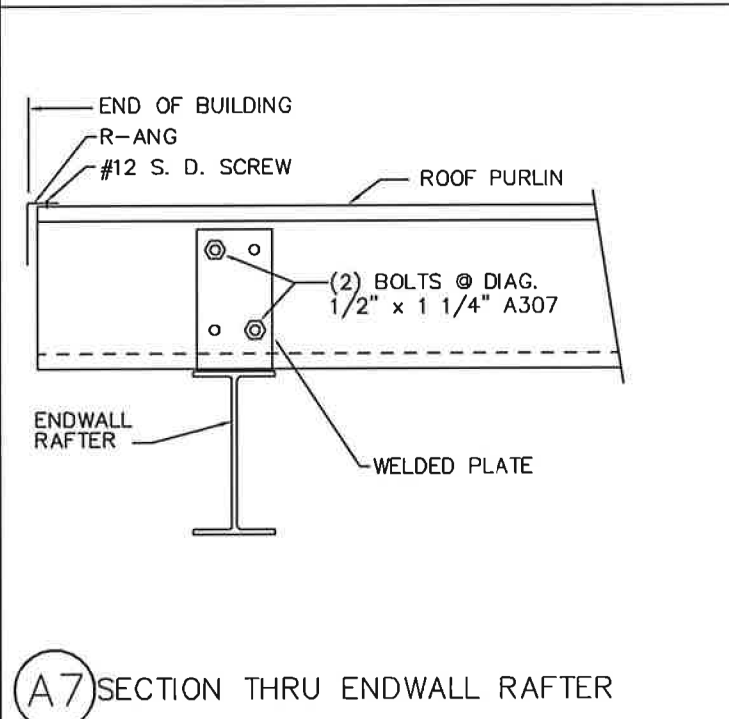
**K12** 3070 DOOR FRAME CONNECTION TO 7'-6" WALL GIRT-TYP



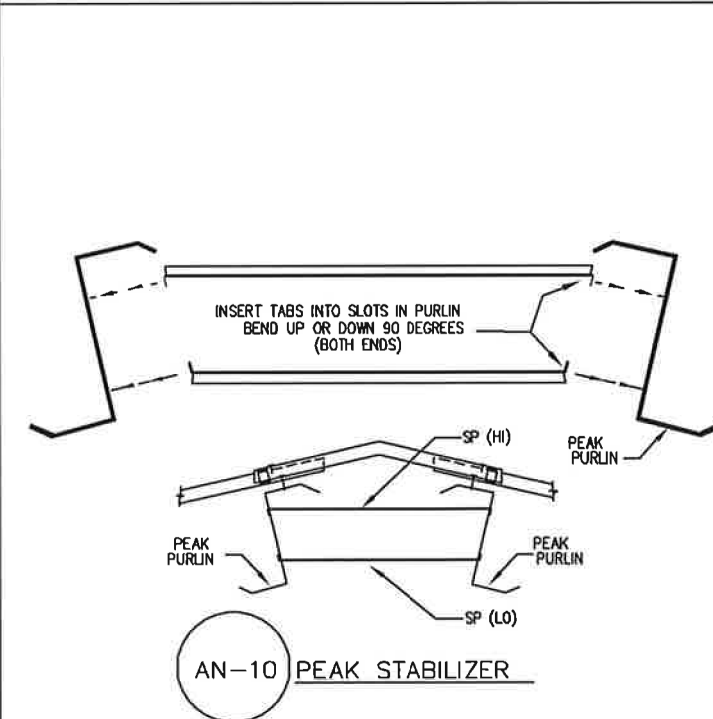
**Z2** "R" PANEL WALL



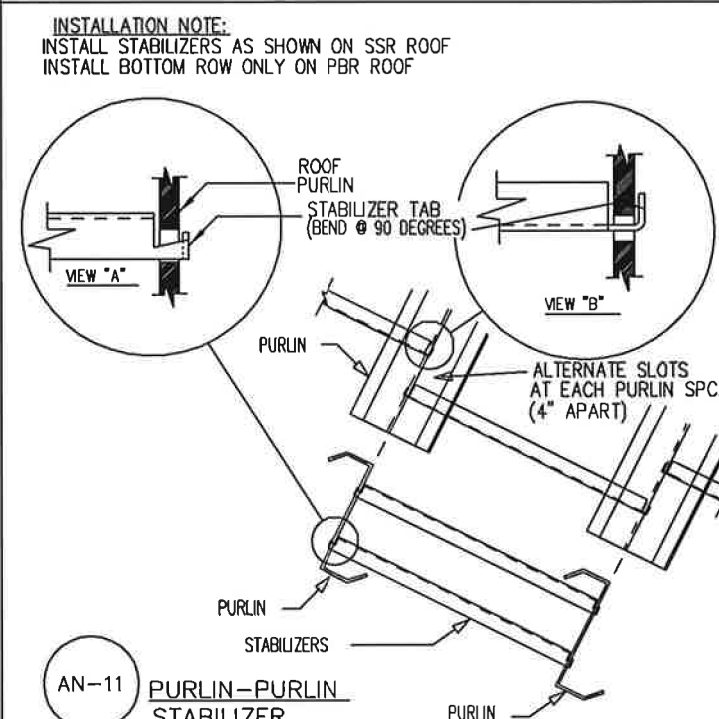
**Z8** TSS-324 LAP DETAILS



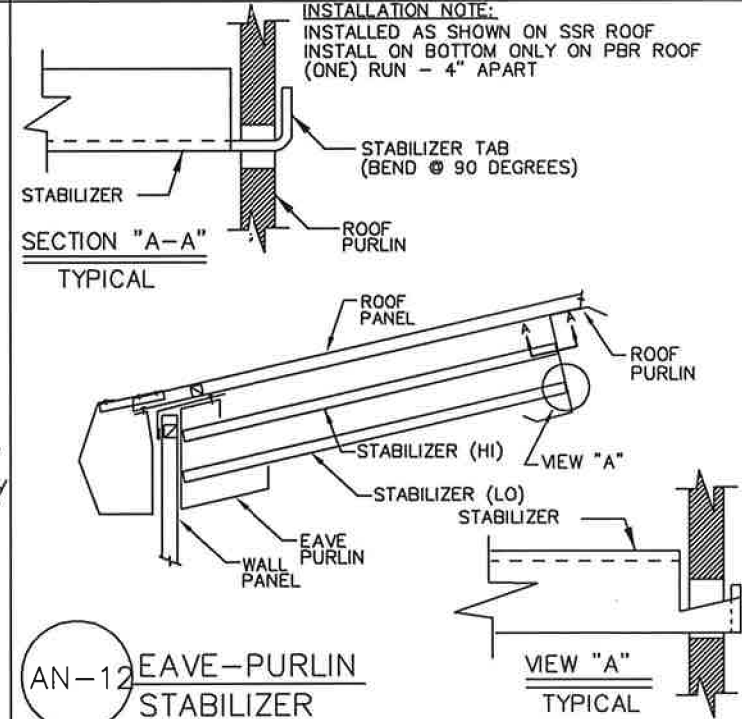
**A7** SECTION THRU ENDWALL RAFTER



**AN-10** PEAK STABILIZER



**AN-11** PURLIN-PURLIN STABILIZER



**AN-12** EAVE-PURLIN STABILIZER

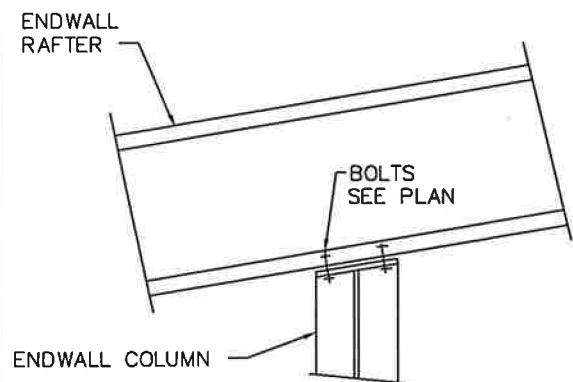


**REVIEWED**  
By Philip Perkins at 9:26 am, Nov 15, 2024

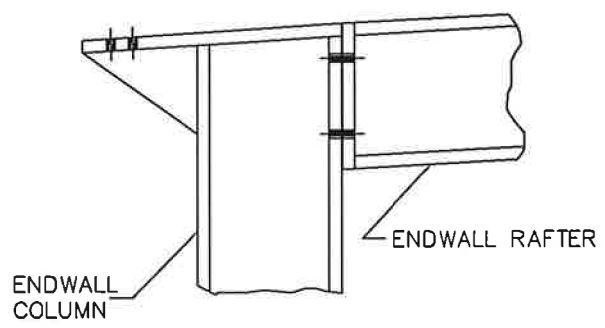
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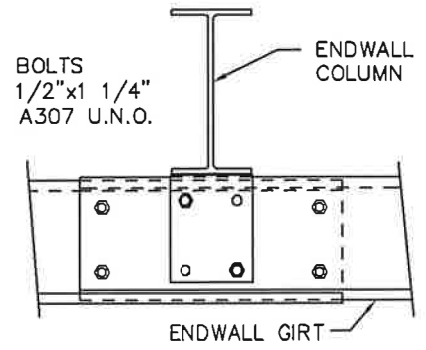
<b>WESTERN</b> STEEL BUILDINGS	PROJECT: 90X80 SHOP	BLDG SIZE: 90.00' x 80.00' x 29.50'	JOB NUMBER: WSB37662
	2010 RULON WHITE BLVD OGDEN, UT	DESIGN: DRAWN: JLR	
PH: 435-565-6882 Fax: 435-503-9467	CUSTOMER: KIMBERLY CLARK	DATE: 10/1/24	CHECK: DRAWING NUMBER
	DWG NAME: DETAIL DRAWINGS	SCALE: NONE	REV. NO: SHEET 11 OF 15



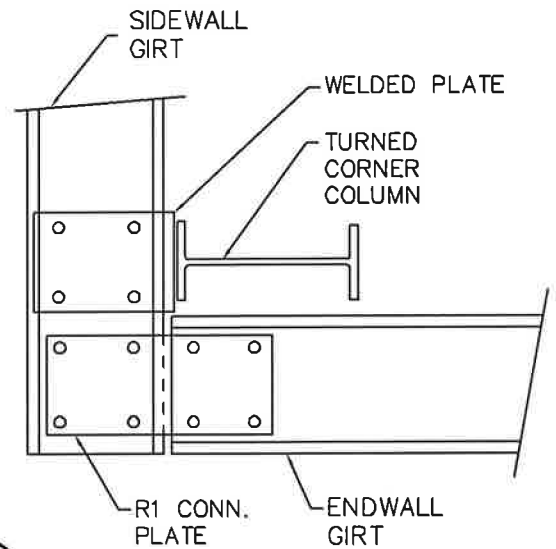
**B3** ENDWALL RAFTER TO COLUMN



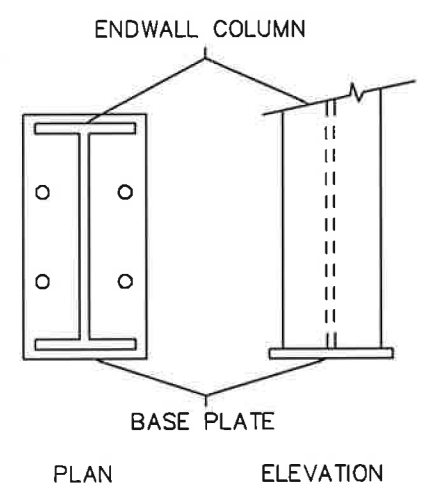
**B24** CORNER COLUMN TO ENDWALL RAFTER  
SEE ERECTION DRAWINGS FOR BOLT SIZE.



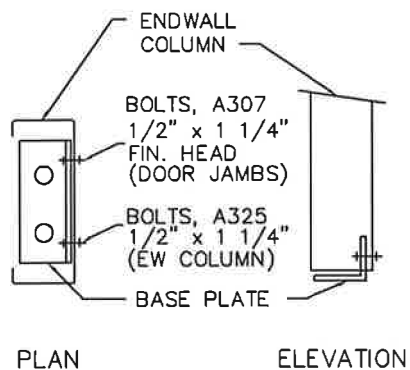
**C12** ENDWALL COLUMN TO WALL GIRT  
NOTE: FLANGE BRACES MAY BE PRESENT



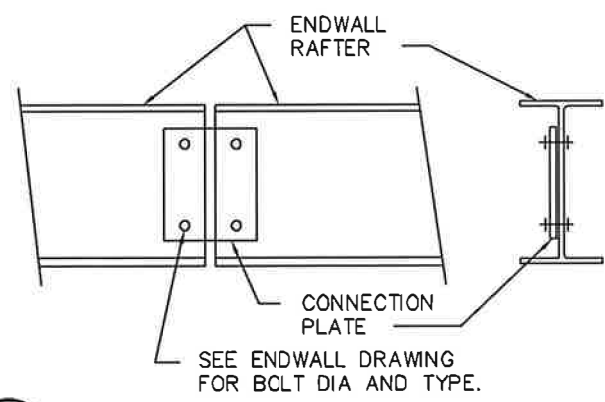
**D18** CORNER COLUMN TO WALL GIRT



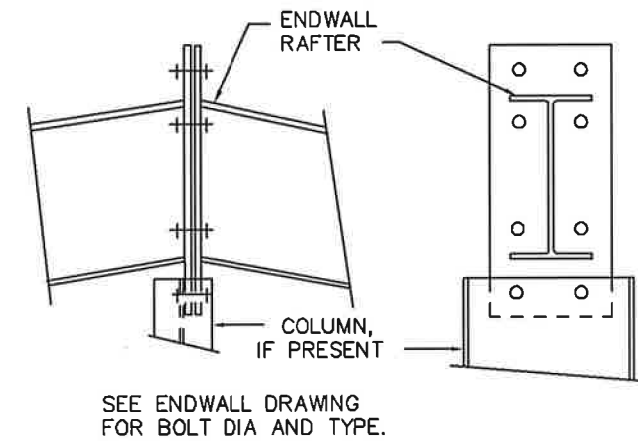
**E3** BASE PLATE FOR ENDWALL COLUMN



**E6** BASE PLATE FOR ENDWALL COLUMN OR DOOR JAMB



**F3** RAFTER SPLICE ALONG SURFACE  
SEE ENDWALL DRAWING FOR BOLT DIA AND TYPE.



**F12** RAFTER SPLICE AT SURFACE CHANGE  
SEE ENDWALL DRAWING FOR BOLT DIA AND TYPE.

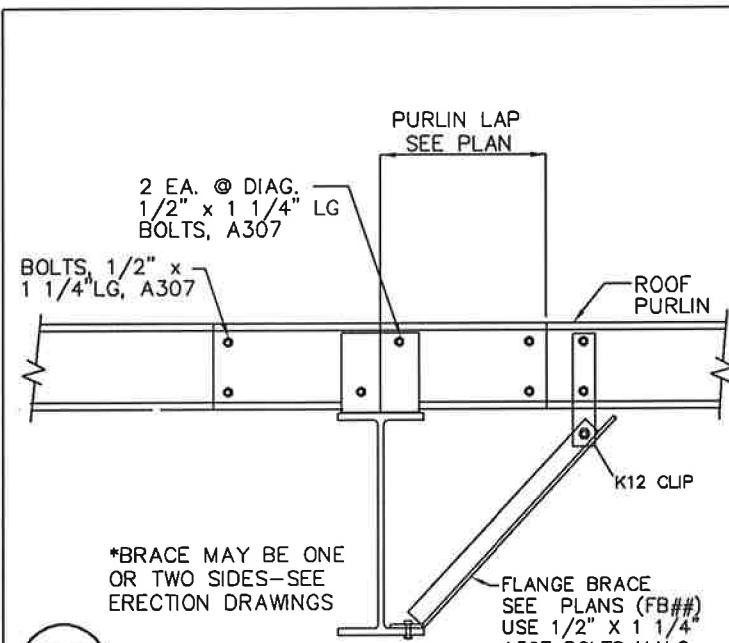


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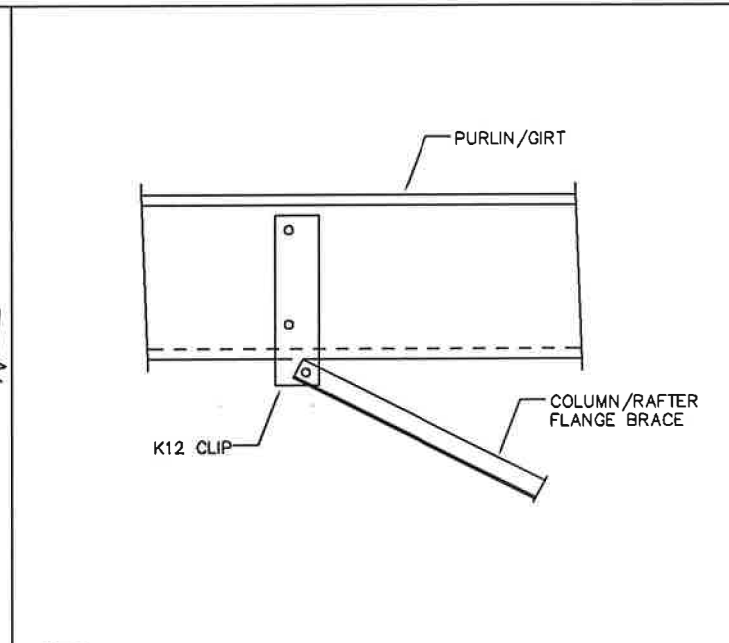
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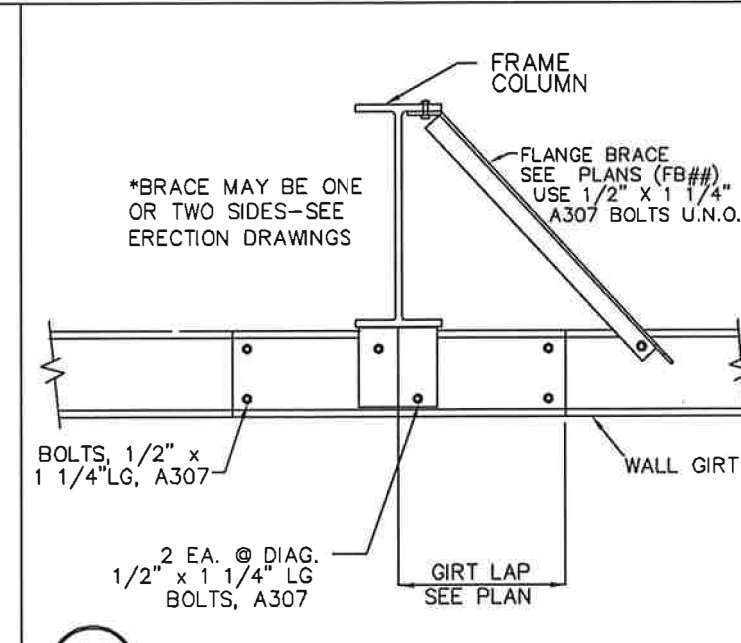
 PH: 435-565-6882 Fax: 435-503-9467	PROJECT: 90X80 SHOP	BLDG SIZE: 90.00' x 80.00' x 29.50'	JOB NUMBER: WSB37662
	2010 RULON WHITE BLVD OGDEN, UT	DESIGN: JLR	
CUSTOMER: KIMBERLY CLARK	DATE: 10/1/24	CHECK:	DRAWING NUMBER
DWG NAME: DETAIL DRAWINGS	SCALE: NONE	REV. NO:	SHEET 12 OF 15



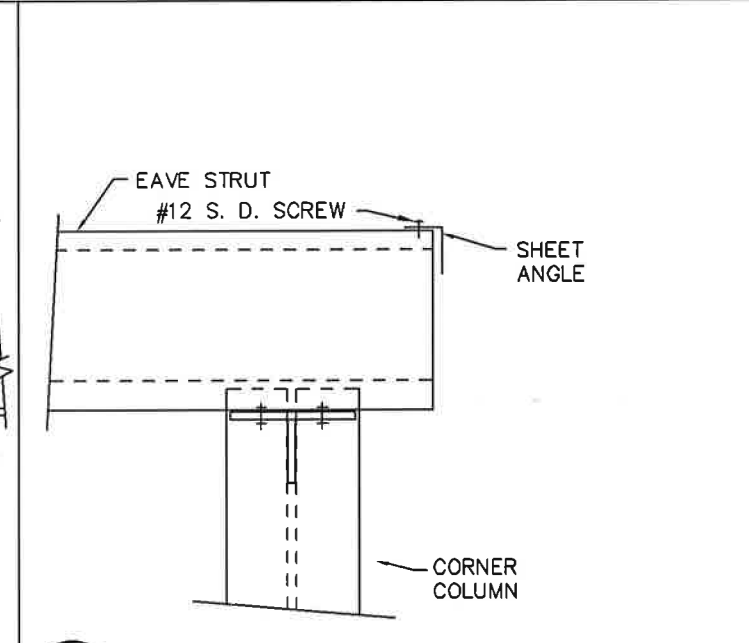
**G2** ROOF PURLIN TO INTERIOR FRAME RAFTER



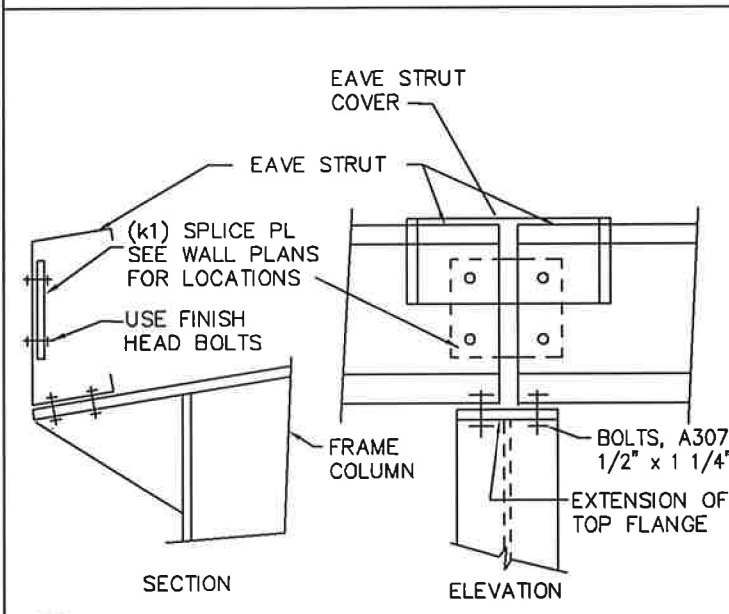
**G25** FLANGE BRACE TO PURLIN/GIRT CLIP



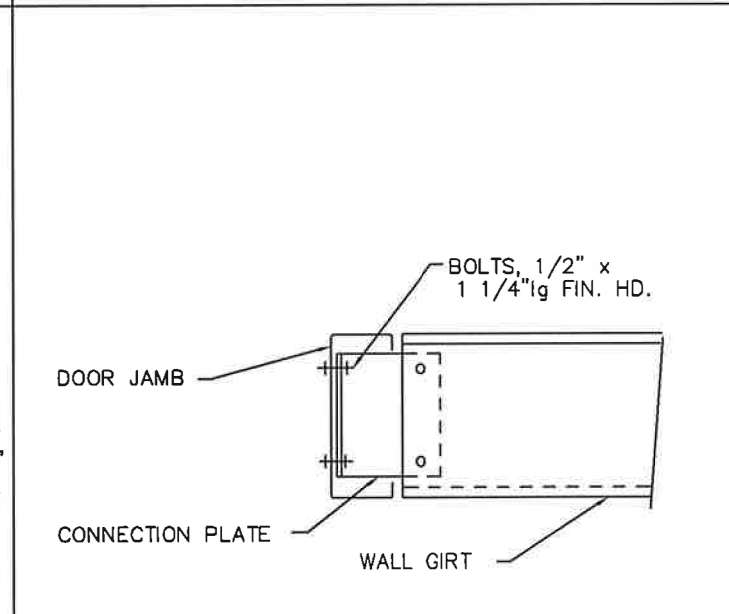
**H2** WALL GIRT TO FRAME COLUMN



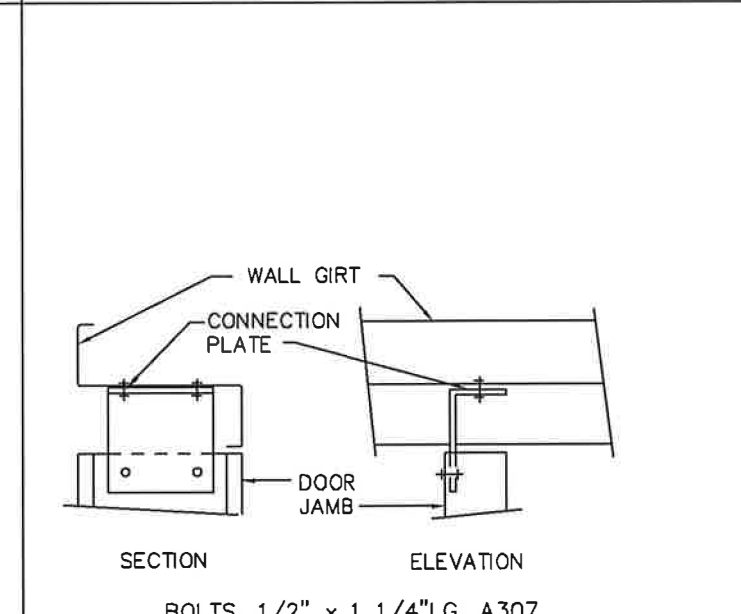
**I14** EAVE STRUT TO CORNER COLUMN



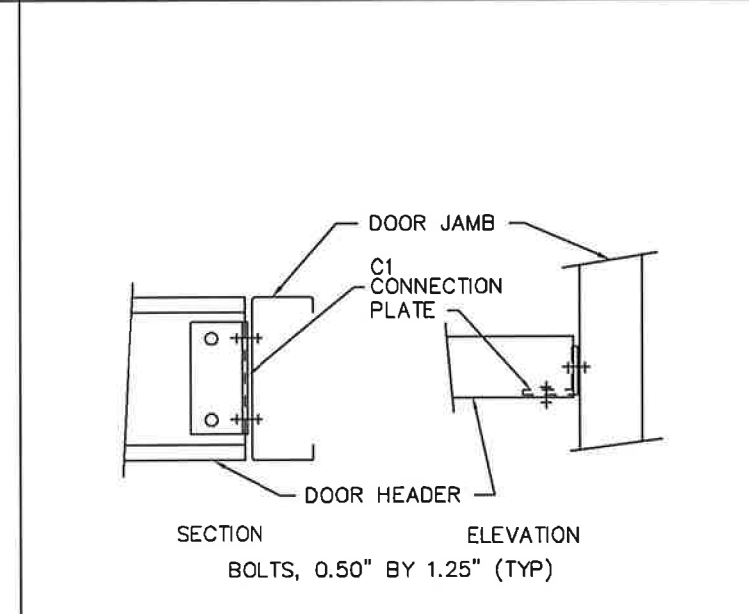
**J4** EAVE STRUT TO RIGID FRAME



**K2** WALL GIRT TO DOOR JAMB



**L6** DOOR JAMB TO WALL GIRT



**M1** DOOR HEADER TO DOOR JAMB



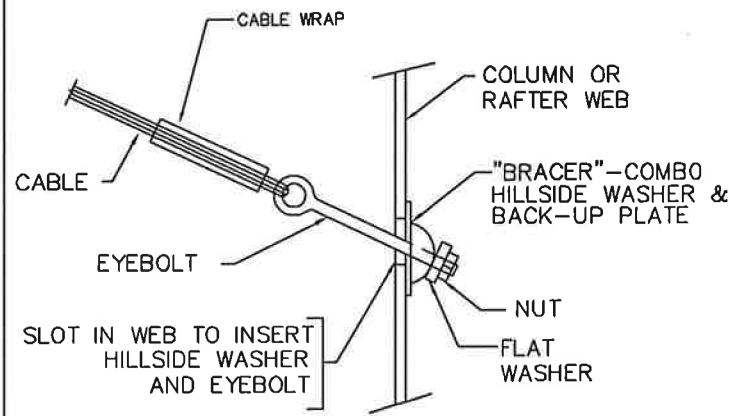
**REVIEWED**  
By Philip Perkins at 9:26 am, Nov 15, 2024

**ISSUED FOR CONSTRUCTION**

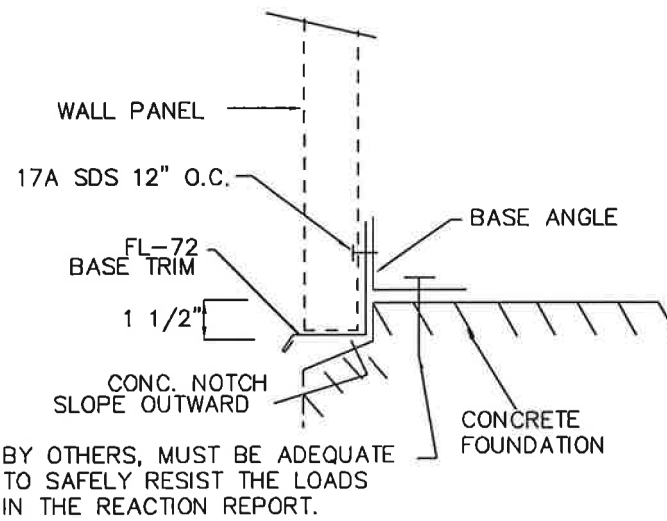
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<b>WESTERN</b> STEEL BUILDINGS PH: 435-565-6882 Fax: 435-503-9467	PROJECT: 90X80 SHOP	BLDG SIZE: 90.00' x 80.00' x 29.50'	JOB NUMBER: WSB37662
	2010 RULON WHITE BLVD OGDEN, UT	DESIGN: JLR	
	CUSTOMER: KIMBERLY CLARK	DATE: 10/1/24	CHECK: [ ]
	DWG NAME: DETAIL DRAWINGS	SCALE: NONE	REV. NO: [ ]
			DRAWING NUMBER: SHEET 13 OF 15

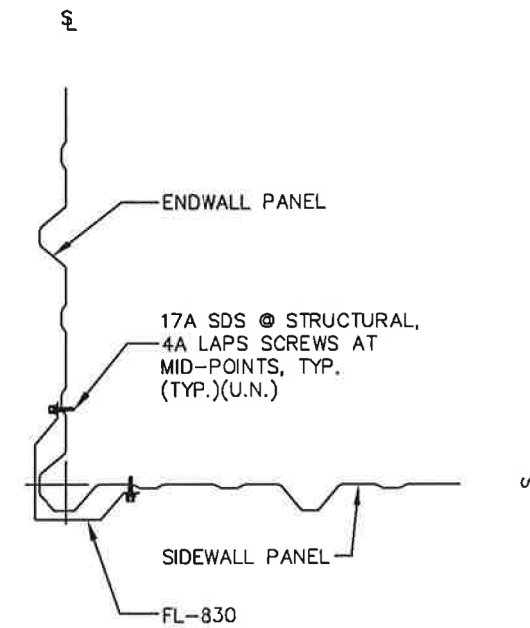
NOTE:  
FLUSH GIRT SYSTEMS WILL REQUIRE A SLOT  
BE FIELD CUT IN THE GIRT WEB TO ALLOW  
CABLE TO FREELY PASS THROUGH. SLOT SIZE  
TO BE MINIMAL SIZE TO ACCOMMODATE  
BRACING.



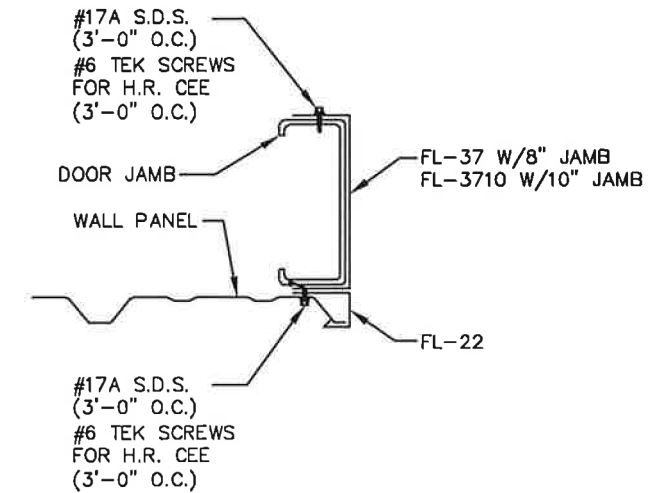
Q2 DIAGONAL CABLE, EYEBOLT END



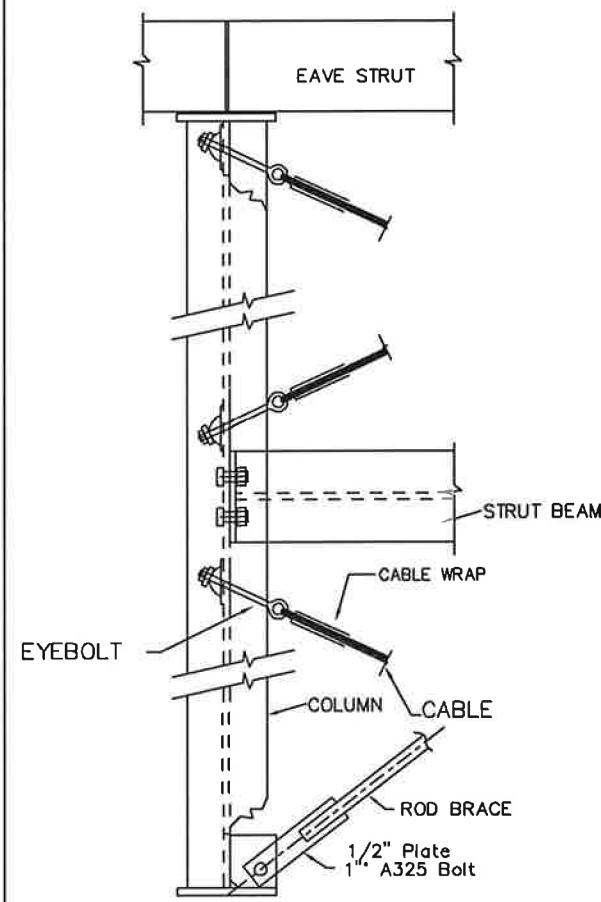
T1 SECTION THRU WALL PANEL AND CONCRETE FOUNDATION



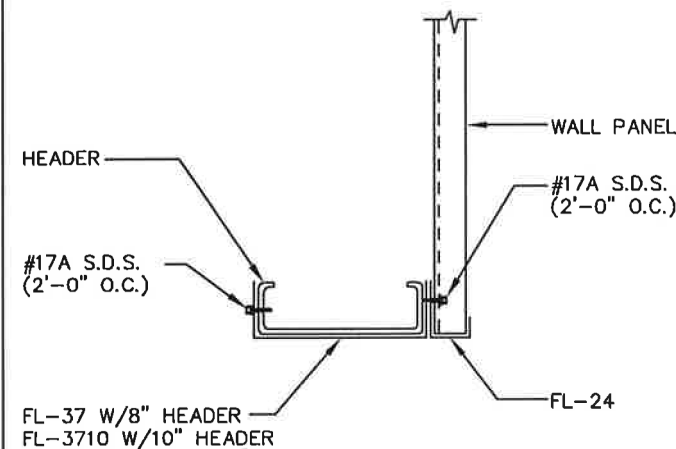
TR-12 OS CORNER TRIM SECTION



TR\_18 DOOR JAMB TRIM



Q3 ROD BRACE ATTACHMENT



TR\_19 HEADER TRIM



**REVIEWED**  
By Philip Perkins at 9:26 am, Nov 15, 2024

**ISSUED FOR CONSTRUCTION**

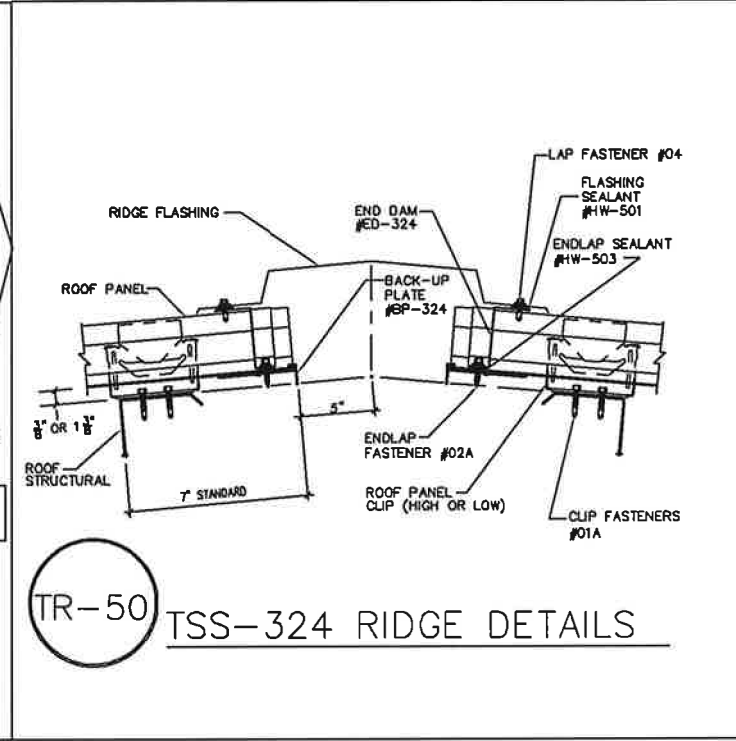
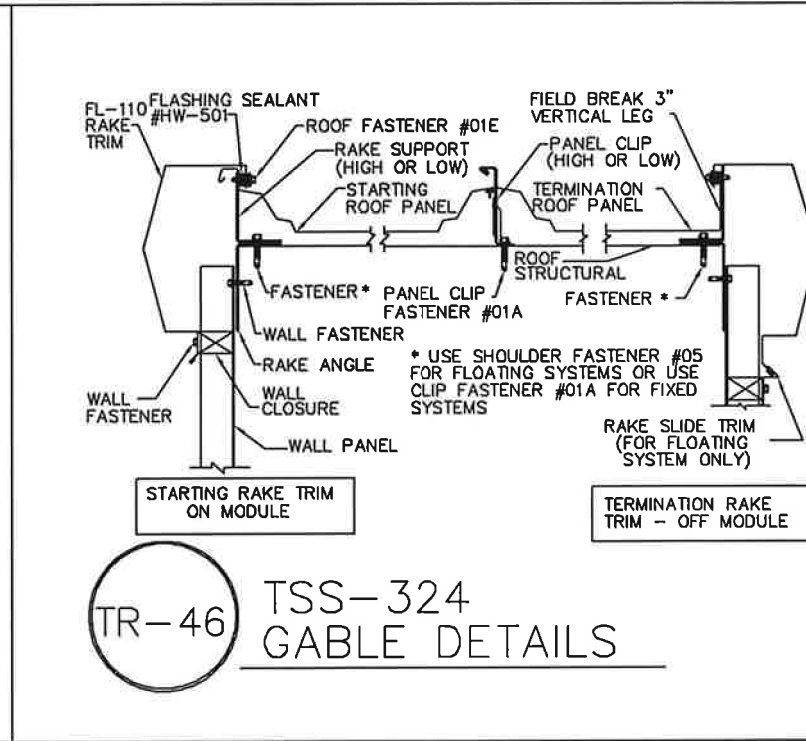
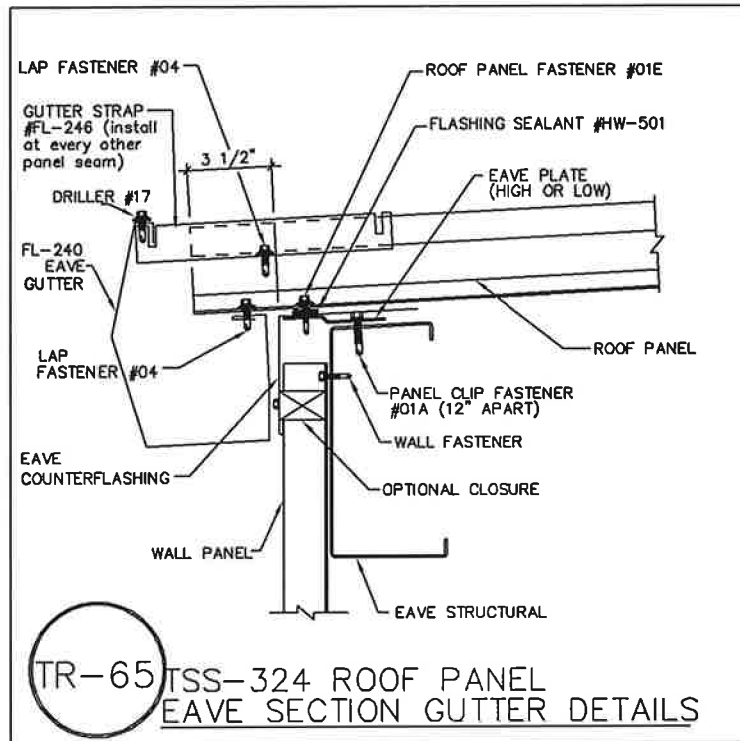
THESE DRAWINGS ARE SUBMITTED FOR CONSTRUCTION AND ARE DEEMED TO BE FINAL DRAWINGS. IT IS THE CUSTOMER'S RESPONSIBILITY TO ENSURE THIS SET OF DRAWINGS ARE THE SOLE SET OF DRAWINGS IN THE HANDS OF THE ERECTOR AND OTHER PROFESSIONAL TRADES ON THE PROJECT SITE.



PH: 435-565-6882  
Fax: 435-503-9467

PROJECT: 90X80 SHOP	BLDG SIZE: 90.00' x 80.00' x 29.50'	JOB NUMBER: WSB37662
2010 RULON WHITE BLVD OGDEN, UT	DESIGN: DRAWN: JLR	
CUSTOMER: KIMBERLY CLARK	DATE: 10/1/24	CHECK: DRAWING NUMBER
DWG NAME: DETAIL DRAWINGS	SCALE: NONE	REV. NO: SHEET 14 OF 15





**REVIEWED**  
By Philip Perkins at 9:26 am, Nov 15, 2024

**ISSUED FOR CONSTRUCTION**  
THESE DRAWINGS ARE SUBMITTED FOR CONSTRUCTION, AND ARE DEEMED TO BE FINAL DRAWINGS. IT IS THE CUSTOMER'S RESPONSIBILITY TO ENSURE THIS SET OF DRAWINGS ARE THE SOLE SET OF DRAWINGS IN THE HANDS OF THE ERECTOR AND OTHER PROFESSIONAL TRADES ON THE PROJECT SITE.

<b>WESTERN</b> STEEL BUILDINGS PH: 435-565-6882 Fax: 435-503-9467	PROJECT: 90X80 SHOP	BLDG SIZE: 90.00' x 80.00' x 29.50'	JOB NUMBER: WSB37662
	2010 RULON WHITE BLVD OGDEN, UT	DESIGN: JLR	DRAWN: JLR
	CUSTOMER: KIMBERLY CLARK	DATE: 10/1/24	CHECK:
	DWG NAME: DETAIL DRAWINGS	SCALE: NONE	REV. NO:
			DRAWING NUMBER: SHEET 15 OF 15

D

C

B

A

D

C

B

A

**KEYED NOTES**  
 02.23 EXISTING RAMP CURBS TO REMAIN, PROTECT IN PLACE  
 02.65 REMOVE EXISTING RAILING  
 02.72 REMOVE EXISTING DRIVEWAY SLAB, EXISTING CONCRETE CURBS TO REMAIN



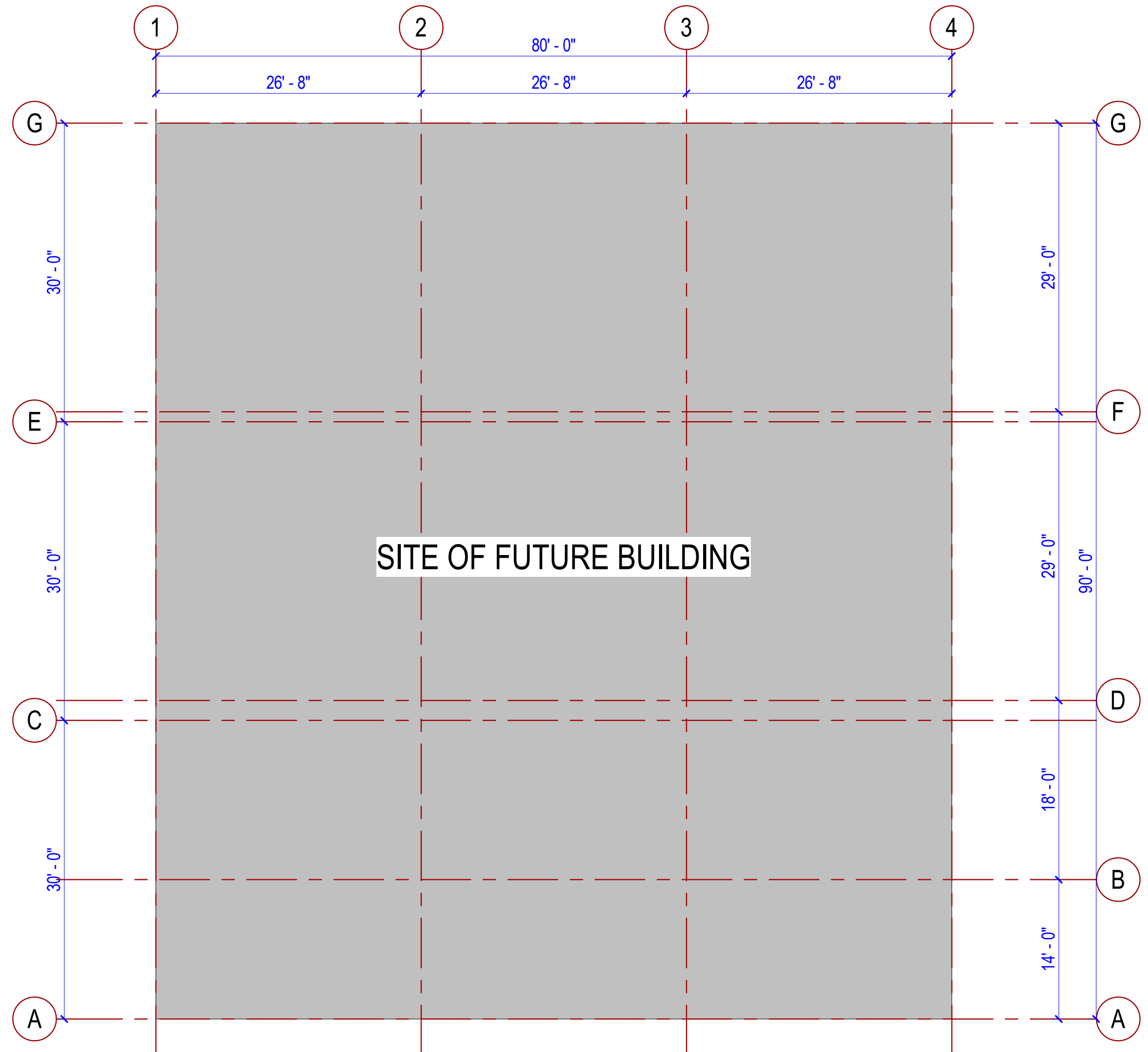
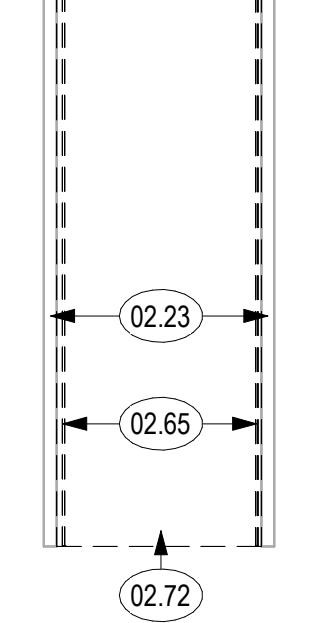
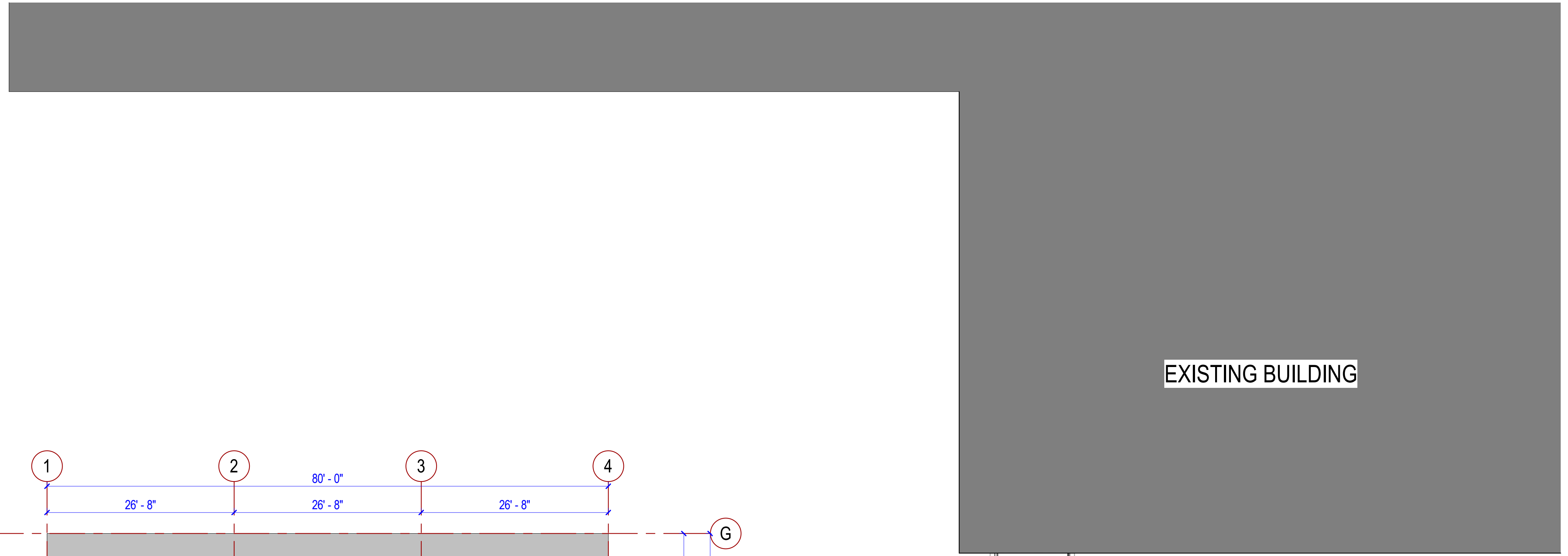
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Rev.	Description	Date	Appr.
1	Revision 1	10/23/24	

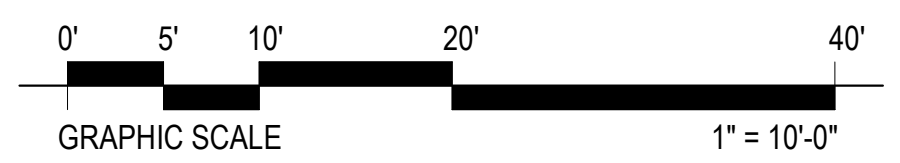
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Drawn by:	CJK	08 OCT 2024	1
Reviewed by:	TRP	File:	
Submitted by:	TRP	Scale:	1" = 10'-0"
		Project Number:	EA20221P

**KCC STORES WAREHOUSE**  
 2010 N. RULON WHITE BLVD.  
 FARR WEST, UT 84404  
**PERMIT SUBMITTAL**  
 ARCHITECTURAL SITE DEMOLITION PLAN

SHEET NUMBER  
**AD100**



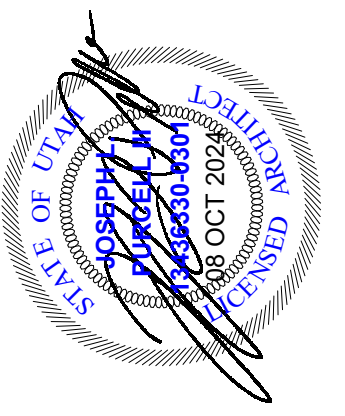
**1** ARCHITECTURAL SITE DEMOLITION PLAN  
 1" = 10'-0"



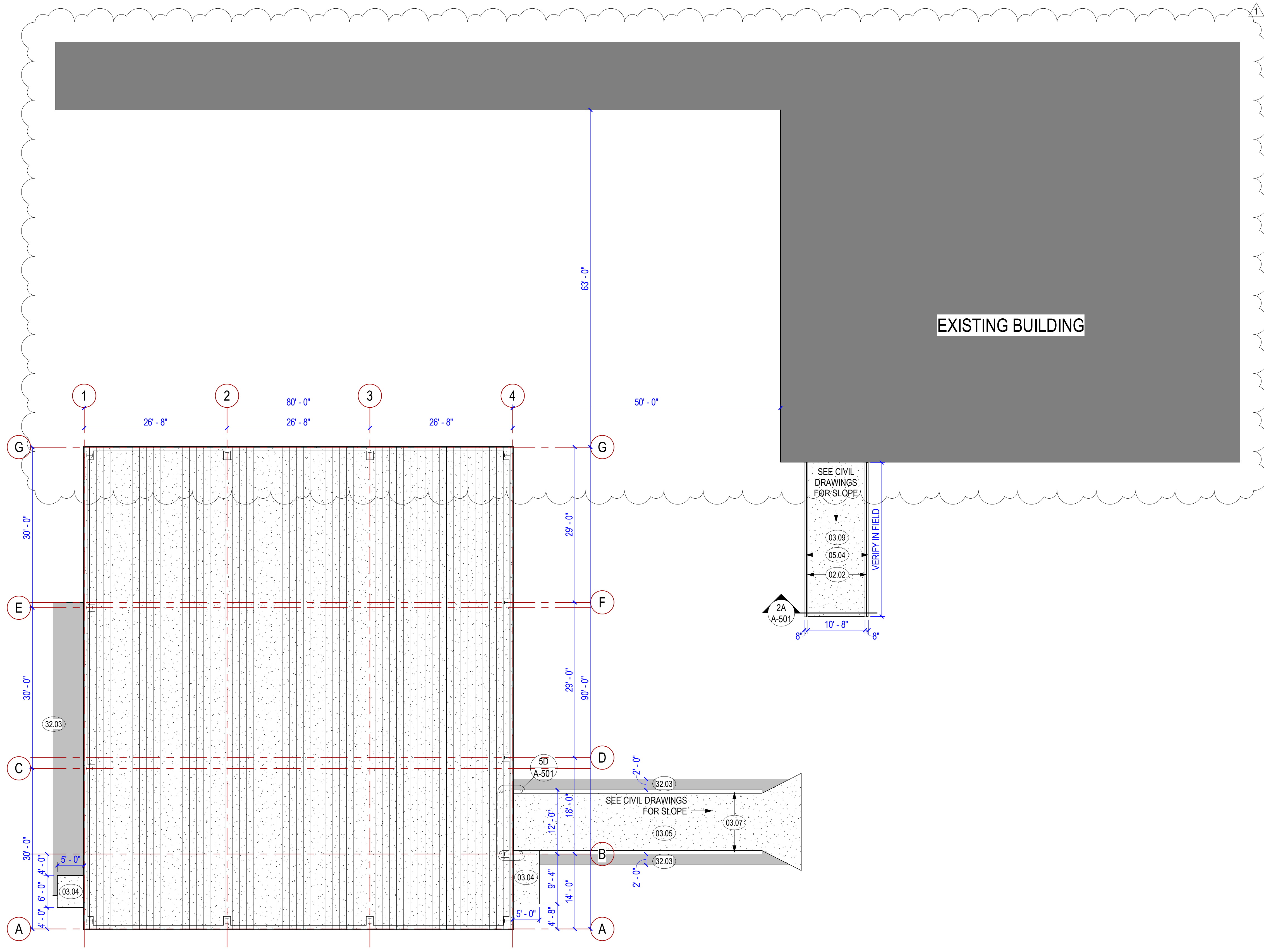
# PERMIT SUBMITTAL

## KEYED NOTES

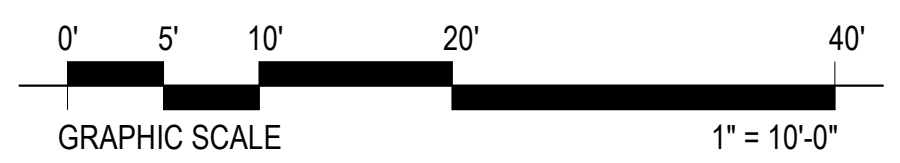
- 02.02 EXISTING WALL TO REMAIN
- 03.04 CONCRETE STOOP, SEE CIVIL AND STRUCTURAL DRAWINGS
- 03.05 CONCRETE DRIVEWAY/RAMP, SEE CIVIL AND STRUCTURAL DRAWINGS
- 03.07 CONCRETE CURBING, 8" THICK AND 8" ABOVE ENTIRE RAMP, FOLLOWING RAMP SLOPE
- 03.09 NEW CONCRETE DRIVEWAY ON EXISTING CONCRETE CURBING, SEE CIVIL PLANS
- 05.04 OSHA APPROVED 42 INCH HIGH GUARDS SHALL BE LOCATED ALONG OPEN SIDED WALKING SURFACES, INCLUDING MEZZANINES, EQUIPMENT PLATFORMS, AISLES, STAIRS, RAMPS AND LANDINGS THAT ARE LOCATED MORE THAN 30 INCHES MEASURES VERTICALLY TO THE FLOOR OR GRADE BELOW AT A POINT WITHIN 36 INCHES HORIZONTALLY TO THE EDGE OF THE OPEN SIDE. THE HIGHT OF THE GUARD SHALL BE MEASURED VERTICALLY FROM THE RAMP SURFACE AT THE GUARD ON RAMPS
- 32.03 LANDSCAPE FABRIC AND ROCK MULCH, SEE CIVIL DRAWINGS



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**1 ARCHITECTURAL SITE PLAN**  
 1" = 10'-0"



Rev.	Description	Date	Appr.
1	Revision 1	10/23/24	

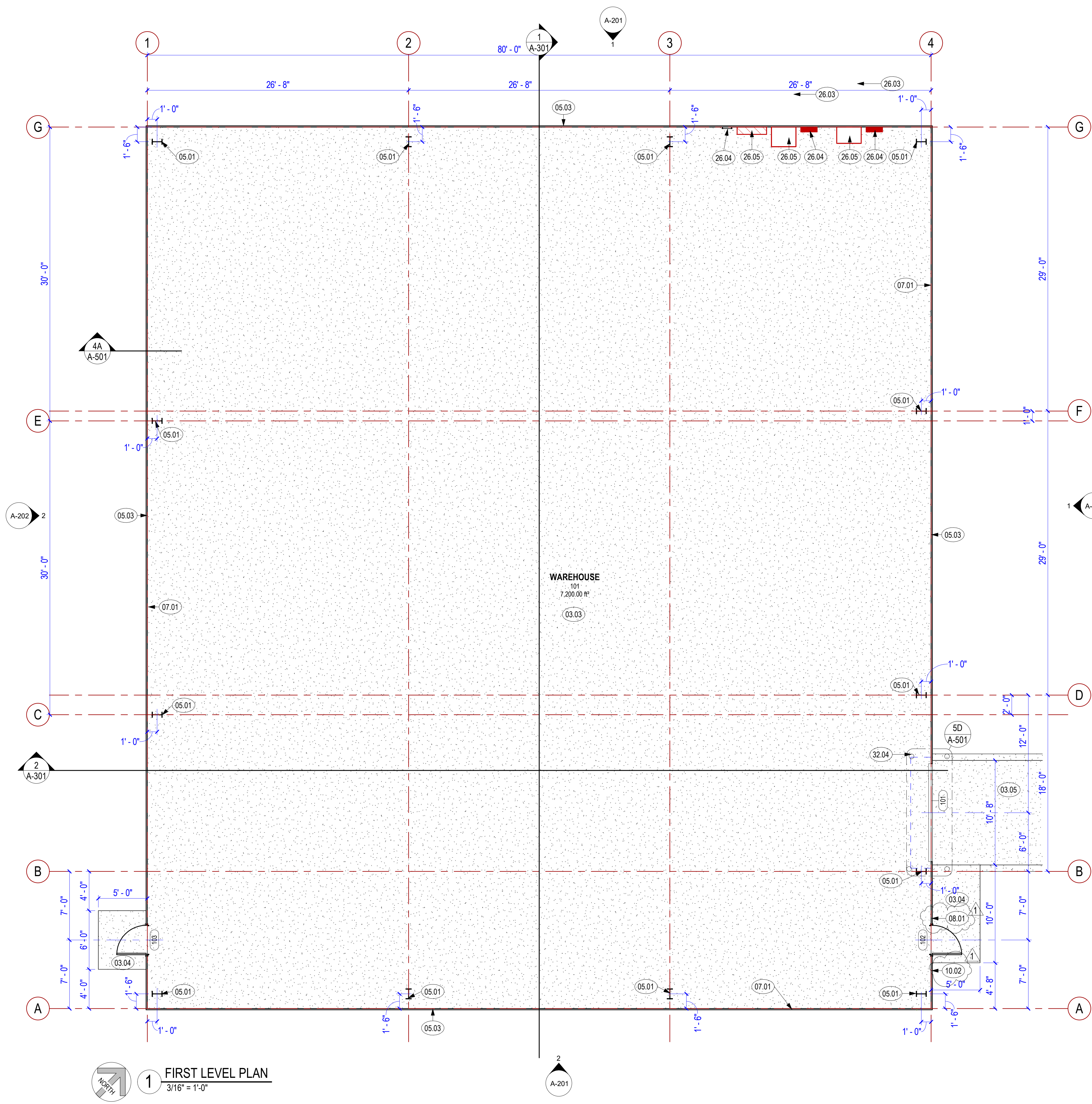
Designed by:	08 OCT 2024	REV:	1
Drawn by:	CJK	File:	
Reviewed by:	TRP	Scale:	1" = 10'-0"
Submitted by:	TRP	Project Number:	EA2022TP

**KCC STORES WAREHOUSE**  
 2010 N. RULON WHITE BLVD.  
 FARR WEST, UT 84404  
**PERMIT SUBMITTAL**  
 ARCHITECTURAL SITE PLAN

SHEET NUMBER  
**A-100**

1 2 3 4 5

D  
C  
B  
A



**1** FIRST LEVEL PLAN  
3/16" = 1'-0"

- KEYED NOTES**
- 03.03 CONCRETE FLOOR SLAB (INTERIOR, CONDITIONED SPACES) OVER BASE COURSE CONSISTING OF CLEAN GRADED SAND, GRAVEL, CRUSHED STONE OR CRUSHED BLAST-FURNACE SLAG, SEE STRUCTURAL DRAWINGS
  - 03.04 CONCRETE STOOP, SEE CIVIL AND STRUCTURAL DRAWINGS
  - 03.05 CONCRETE DRIVEWAY/RAMP, SEE CIVIL AND STRUCTURAL DRAWINGS
  - 05.01 STEEL COLUMN, SEE WESTERN STEEL AND STRUCTURAL DRAWINGS
  - 05.03 METAL SIDING, SEE WESTERN STEEL DRAWINGS
  - 07.01 BATT WALL INSULATION, SEE WESTERN STEEL FOR R-VALUES AND INSTALLATION DETAILS
  - 08.01 DOOR ACCESS CONTROLS TO MATCH THOSE USED ON OTHER BUILDINGS, SEE ELECTRICAL DRAWINGS
  - 10.02 BUILDING IDENTIFICATION SIGNAGE PROVIDED AND INSTALLED BY OWNER
  - 26.03 ELECTRICAL PANEL, SEE ELECTRICAL DRAWINGS
  - 26.04 PANELBOARD, SEE ELECTRICAL DRAWINGS
  - 26.05 ELECTRICAL EQUIPMENT, SEE ELECTRICAL DRAWINGS
  - 32.04 BOLLARDS PROVIDED BY OWNER



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Rev.	Description	Date	Appr.
1	Revision 1	10/23/24	

REV.	1
Submitted:	08 OCT 2024
Designed by:	TRP
Drawn by:	CJK
Reviewed by:	TRP
Submitted by:	TRP
File:	
Scale:	3/16" = 1'-0"
Project Number:	EA240221P

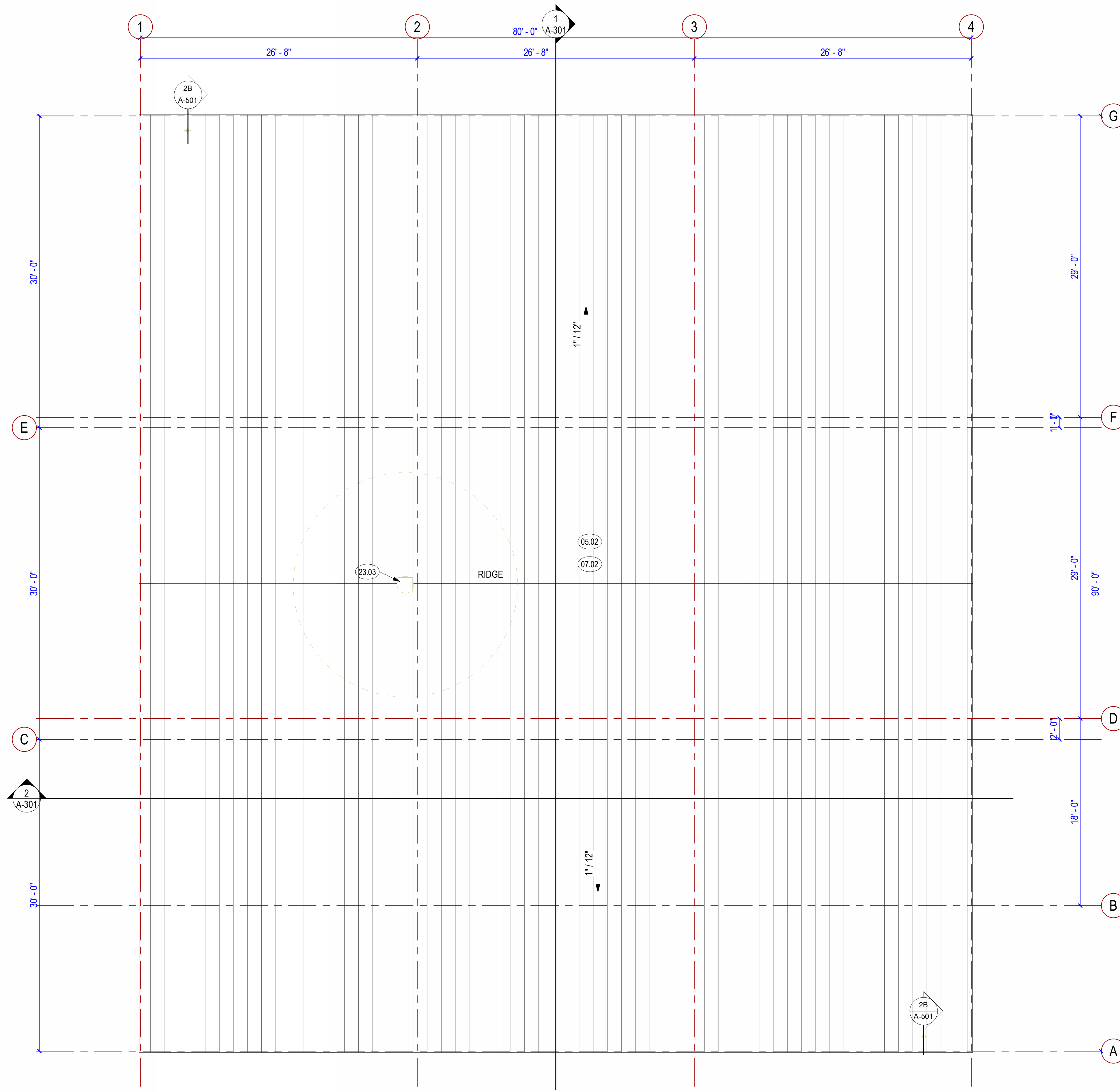
**KCC STORES WAREHOUSE**  
 2010 N. RULON WHITE BLVD.  
 FARR WEST, UT 84404  
 PERMIT SUBMITTAL

FIRST LEVEL PLAN

SHEET NUMBER  
**A-101**

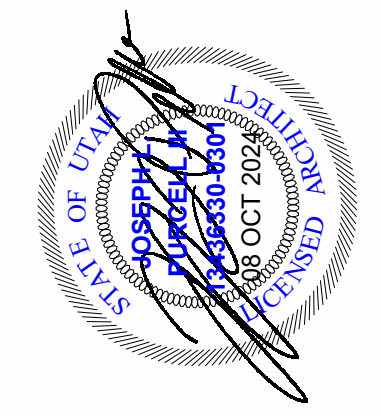


1 2 3 4 5



**KEYED NOTES**

- 05.02 METAL ROOF, SEE WESTERN STEEL DRAWINGS
- 07.02 BATT ROOF INSULATION, SEE WESTERN STEEL FOR R-VALUES AND INSTALLATION DETAILS
- 23.03 EXHAUST FAN, SEE DETAIL A3M-501 FOR ROOF CURB AND FLASHING



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Rev.	Description	Date	Appr.
1	Revision 1	10/23/24	

Designed by:	Submitted:	REV:
Designer: CJK	08 OCT 2024	1
Drawn by:	File:	
CJK		
Reviewed by:	Scale:	
TRP	3/16" = 1'-0"	
Submitted by:	Project Number:	
TRP	EA2022/P	

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



**KCC STORES WAREHOUSE**  
 2010 N. RULON WHITE BLVD.  
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 PERMIT SUBMITTAL

SHEET NUMBER  
**A-102**

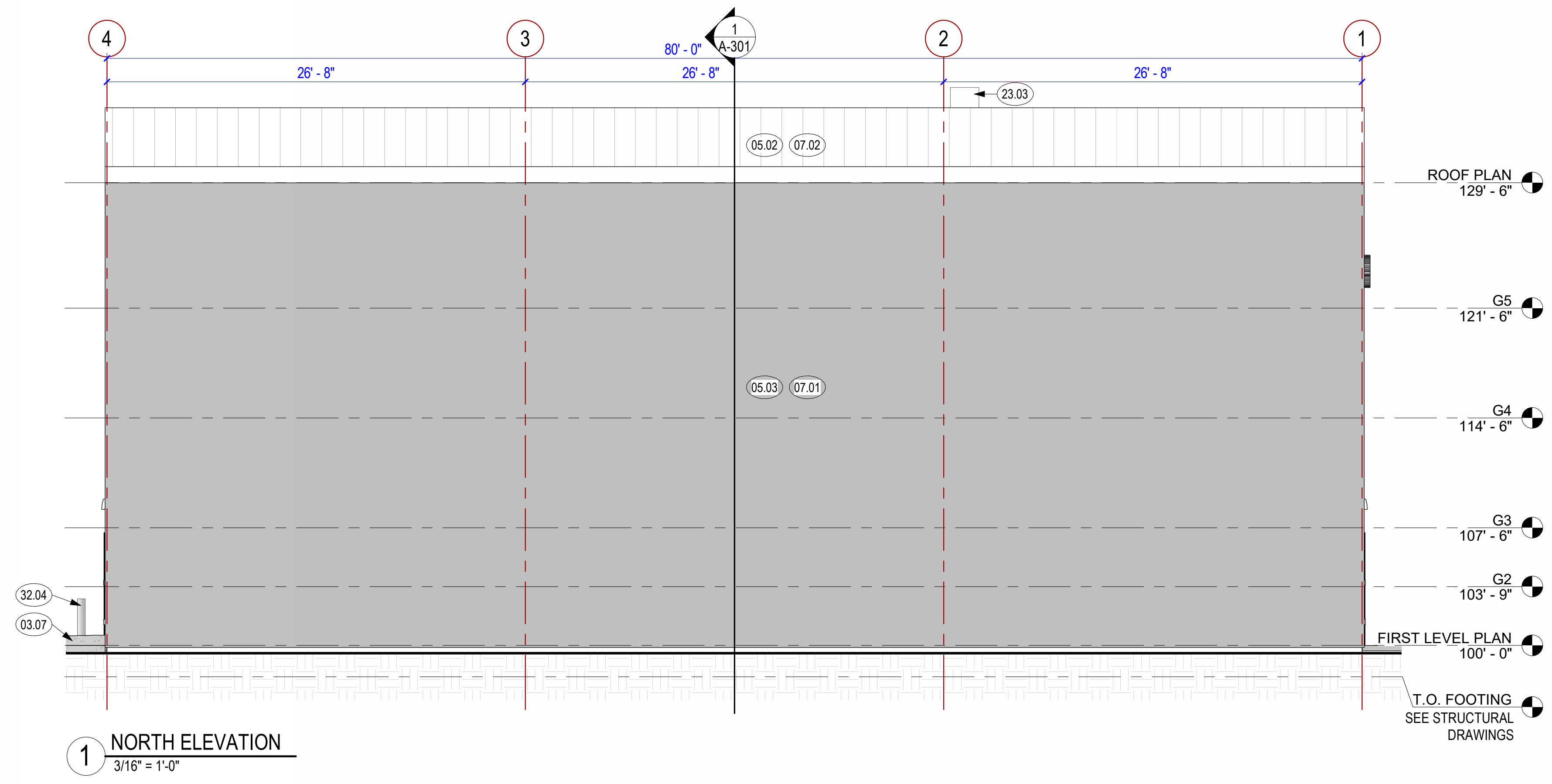
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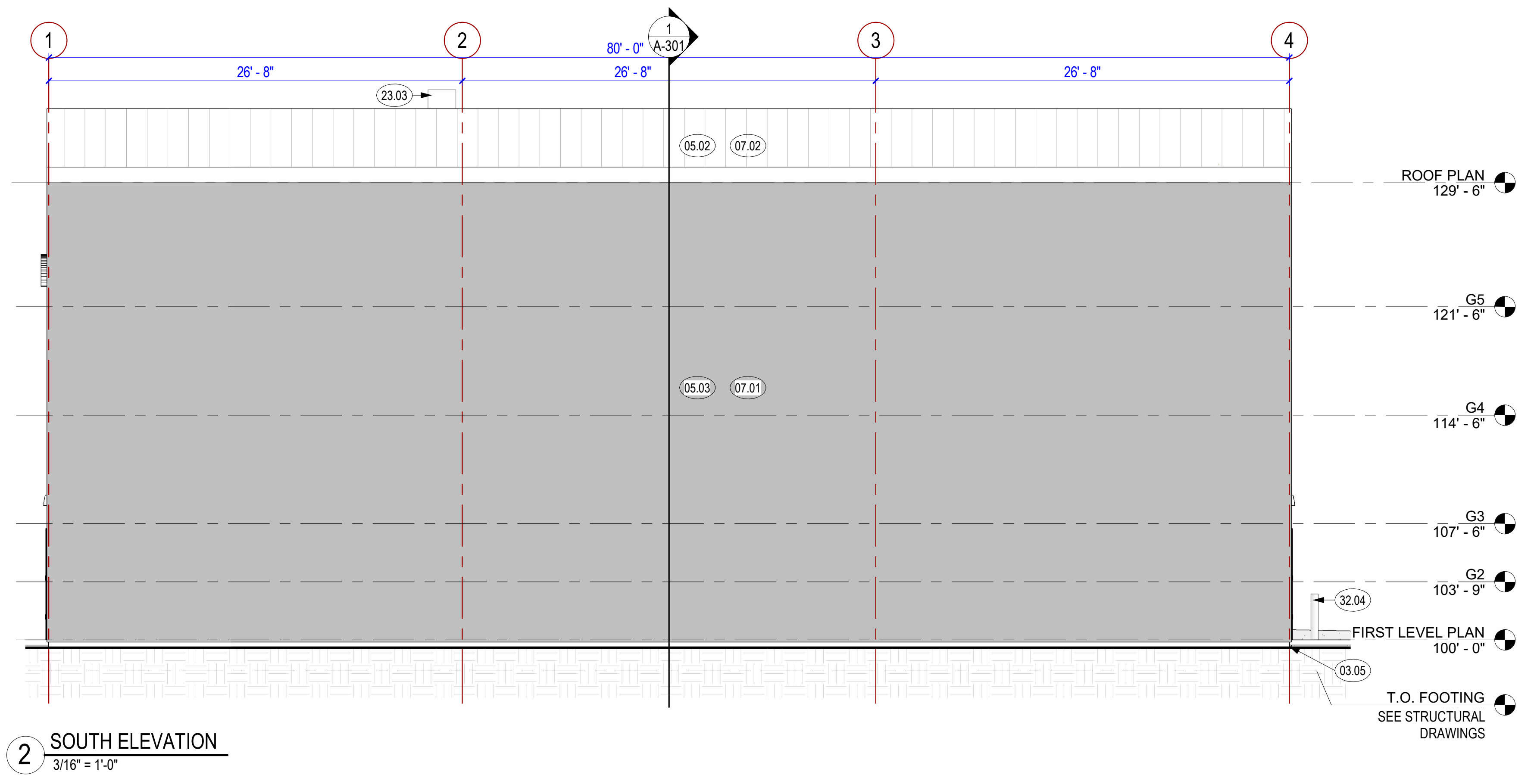
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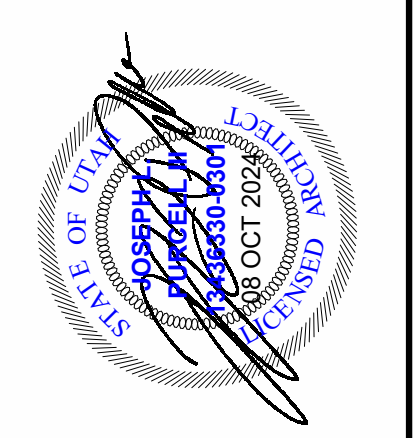
**1 NORTH ELEVATION**  
3/16" = 1'-0"



**2 SOUTH ELEVATION**  
3/16" = 1'-0"

**KEYED NOTES**

- 03.05 CONCRETE DRIVEWAY/RAMP, SEE CIVIL AND STRUCTURAL DRAWINGS
- 03.07 CONCRETE CURBING, 8" THICK AND 8" ABOVE ENTIRE RAMP, FOLLOWING RAMP SLOPE
- 05.02 METAL ROOF, SEE WESTERN STEEL DRAWINGS
- 05.03 METAL SIDING, SEE WESTERN STEEL DRAWINGS
- 07.01 BATT WALL INSULATION, SEE WESTERN STEEL FOR R-VALUES AND INSTALLATION DETAILS
- 07.02 BATT ROOF INSULATION, SEE WESTERN STEEL FOR R-VALUES AND INSTALLATION DETAILS
- 23.03 EXHAUST FAN, SEE DETAIL A3/M-501 FOR ROOF CURB AND FLASHING
- 32.04 BOLLARDS PROVIDED BY OWNER



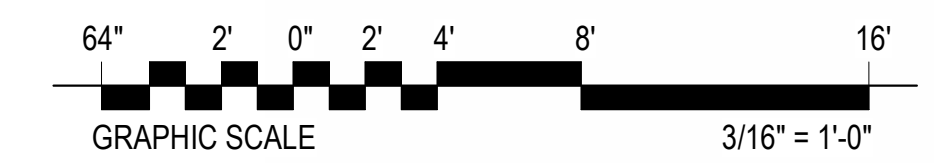
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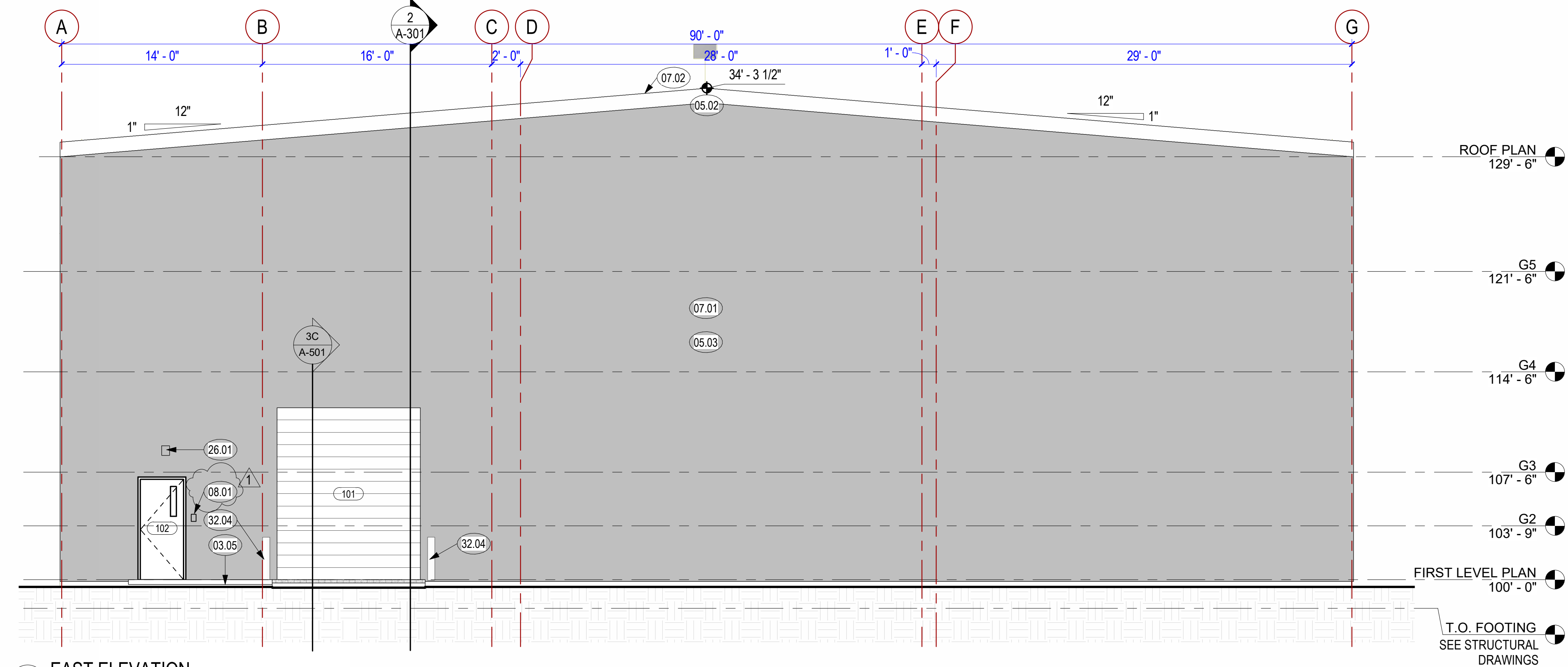
Rev.	Description	Date	Appr.
1	Revision 1	10/23/24	

Designed by:	Designer	Submitted:	08 OCT 2024	REV:	1
Drawn by:	CJK	File:			
Reviewed by:	TRP	Scale:	3/16" = 1'-0"		
Submitted by:	TRP	Project Number:	EA240221P		

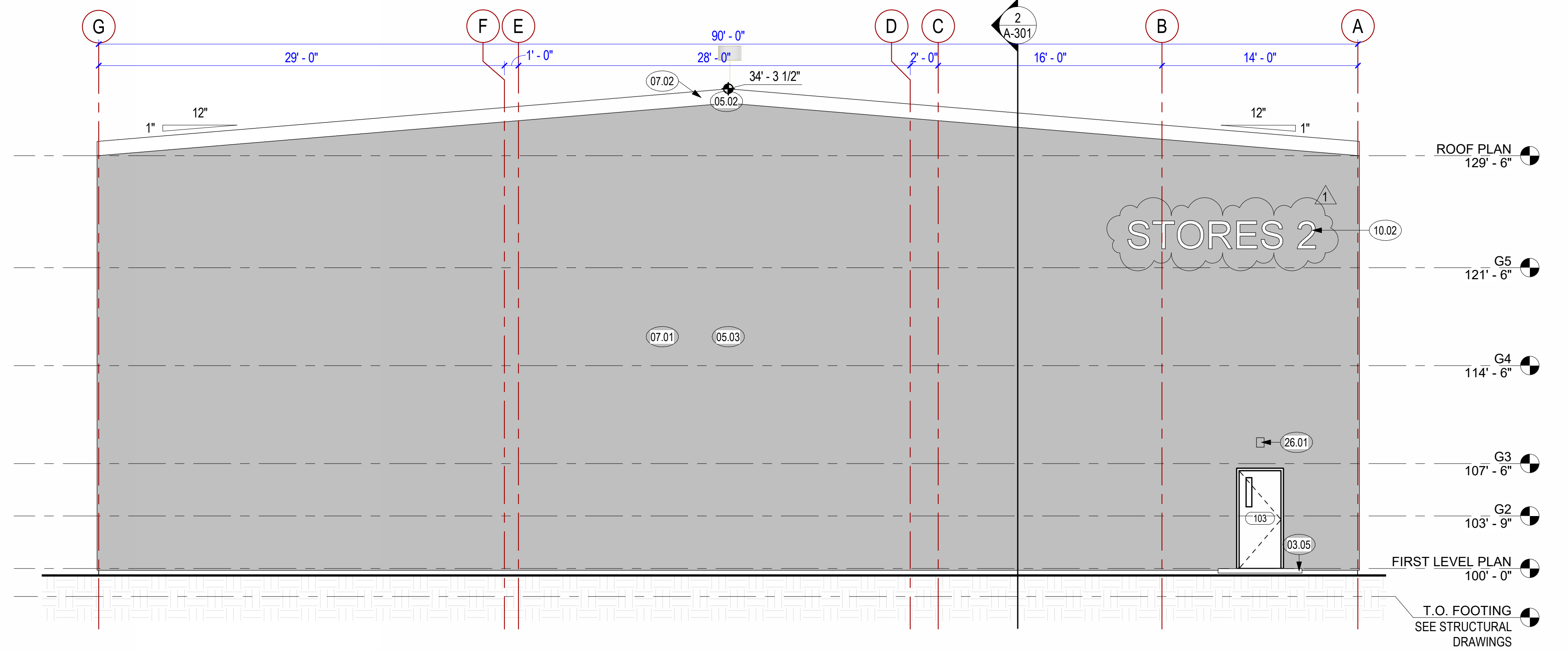
**KCC STORES WAREHOUSE**  
**2010 N. RULON WHITE BLVD.**  
**FARR WEST, UT 84404**  
**PERMIT SUBMITTAL**  
EXTERIOR ELEVATIONS

SHEET NUMBER  
**A-201**



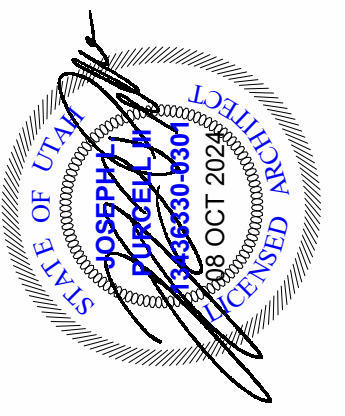


1 EAST ELEVATION  
3/16" = 1'-0"



2 WEST ELEVATION  
3/16" = 1'-0"

- KEYED NOTES**
- 03.05 CONCRETE DRIVEWAY/RAMP; SEE CIVIL AND STRUCTURAL DRAWINGS
  - 05.02 METAL ROOF; SEE WESTERN STEEL DRAWINGS
  - 05.03 METAL SIDING; SEE WESTERN STEEL DRAWINGS
  - 07.01 BATT WALL INSULATION; SEE WESTERN STEEL FOR R-VALUES AND INSTALLATION DETAILS
  - 07.02 BATT ROOF INSULATION; SEE WESTERN STEEL FOR R-VALUES AND INSTALLATION DETAILS
  - 08.01 DOOR ACCESS CONTROLS TO MATCH THOSE USED ON OTHER BUILDINGS; SEE ELECTRICAL DRAWINGS
  - 10.02 BUILDING IDENTIFICATION SIGNAGE PROVIDED AND INSTALLED BY OWNER
  - 26.01 LIGHTING FIXTURE; SEE ELECTRICAL DRAWINGS
  - 32.04 BOLLARDS PROVIDED BY OWNER

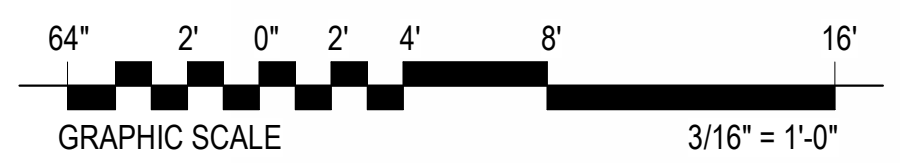


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Rev.	Description	Date	Appr.
1	Revision 1	10/23/24	

Designed by:	Designer	Submitted:	08 OCT 2024
Drawn by:	CJK	File:	
Reviewed by:	TRP	Scale:	3/16" = 1'-0"
Submitted by:	TRP	Project Number:	EA240221P
REV:	1		

**KCC STORES WAREHOUSE**  
 2010 N. RULON WHITE BLVD.  
 FARR WEST, UT 84404  
 PERMIT SUBMITTAL  
 EXTERIOR ELEVATIONS



SHEET NUMBER  
A-202





DOOR SCHEDULE											
MARK	WIDTH	HEIGHT	THICK	TYPE	DOOR ELEV.	DOOR MAT'L & FIN.	FRAME MAT'L & FIN	FRAME PROFILE	FIRE RATE	HDWR	REMARKS
101	10' - 0"	12' - 0"	3"	OVERHEAD - COILING	3C/A-501	INSULATED METAL, WHITE	HOLLOW METAL, WHITE	NA	NONE	TBD	0.90 MAX. U-FACTOR
102	3' - 0"	7' - 0"	1 3/4"	HINGED	5B/A-501	INSULATED METAL, WHITE	HOLLOW METAL, WHITE	5A/A-501	NONE	TBD	0.63 MAX. U-FACTOR
103	3' - 0"	7' - 0"	1 3/4"	HINGED	5B/A-501	INSULATED METAL, WHITE	HOLLOW METAL, WHITE	5A/A-501	NONE	TBD	0.63 MAX. U-FACTOR

**DOOR 101:**  
 OVERHEAD DOOR ROLLING STEEL SERVICE DOOR  
 STORMTITE AP MODEL 627 - WHITE (OR EQUIVALENT)  
 ELECTRIC (RH) OPERATION WITH INTERIOR CONTROLS  
 AIR INFILTRATION PACKAGE (MEETS IECC CODE  
 REQUIREMENTS 2021 C402.4.3/2015 C402.5.2); INCLUDES GUIDE  
 COVER AND CAP; WEATHERSEALS ON INTERIOR & EXTERIOR  
 OF GUIDE; LINTEL BRUSH SEAL; BOTTOM ASTRAGAL

**DOOR 102:**  
 TRUDOOR METAL BUILDING DOOR (OR EQUIVALENT)  
 SIZE: 3070

DOOR HAND: LHR  
 LITE KIT: 6' x 30"  
 GLASS TYPE: 1" INSULATED  
 SUBFRAME SIZE: 6 1/2"  
 FINISH: WHITE

**HARDWARE PACKAGE:** PANIC BAR RIM EXIT DEVISE W/OUTSIDE  
 LEVER AND DOOR CLOSER, ACCESS CONTROL TO MATCH  
 OTHER BUILDINGS  
 EXTRAS: KICKPLATE  
 HARDWARE GRADE: HEAVY DUTY

**DOOR 103:**  
 TRUDOOR METAL BUILDING DOOR (OR EQUIVALENT)  
 SIZE: 3070

DOOR HAND: RHR  
 LITE KIT: 6' x 30"  
 GLASS TYPE: 1" INSULATED  
 SUBFRAME SIZE: 6 1/2"  
 FINISH: WHITE

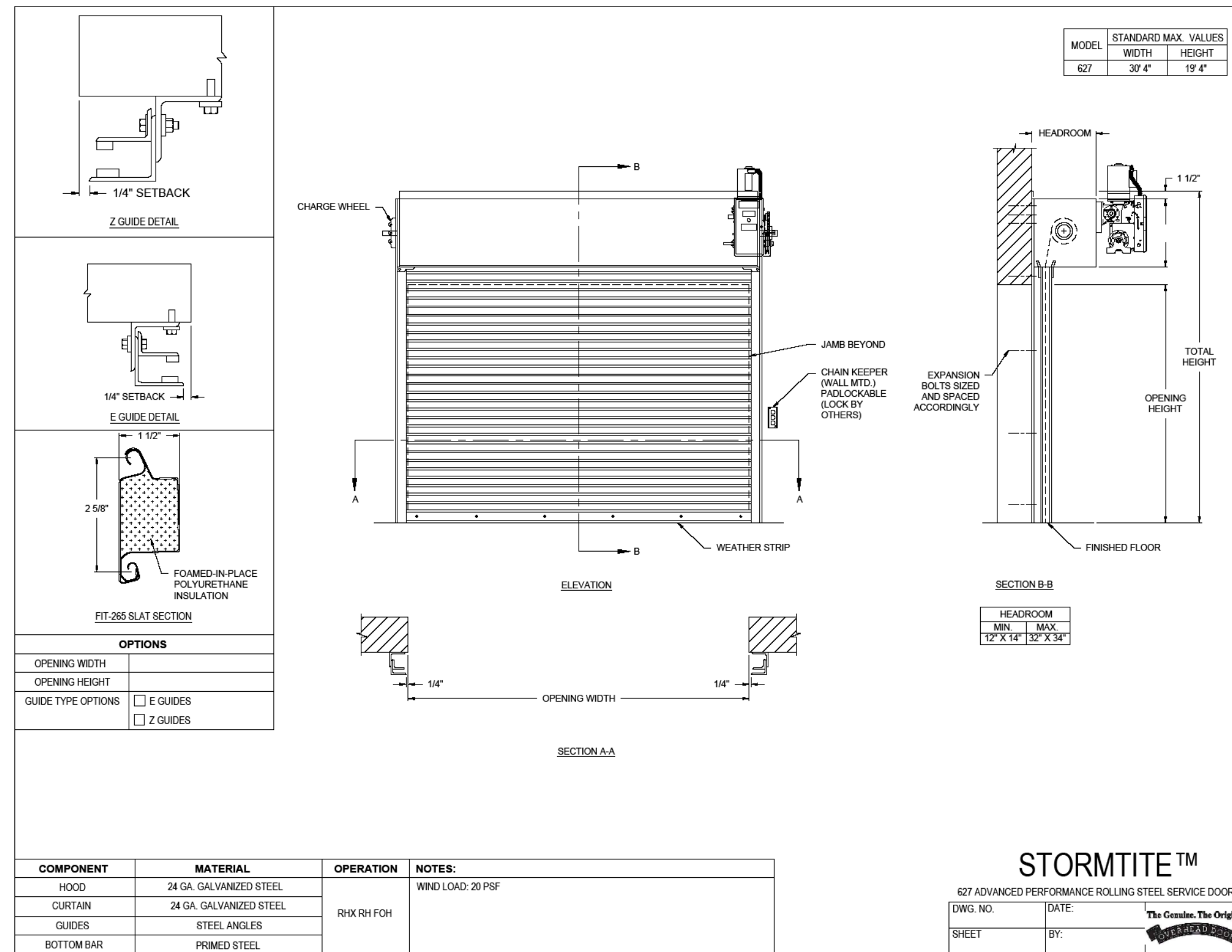
**HARDWARE PACKAGE:** EXIT ONLY PANIC BAR RIM EXIT DEVISE  
 W/NO OUTSIDE TRIM AND DOOR CLOSER  
 EXTRAS: KICKPLATE  
 HARDWARE GRADE: HEAVY DUTY

NOTE: SEE WESTERN STEEL DRAWINGS FOR DOOR HEADER AND DOOR JAMB  
 DETAILS

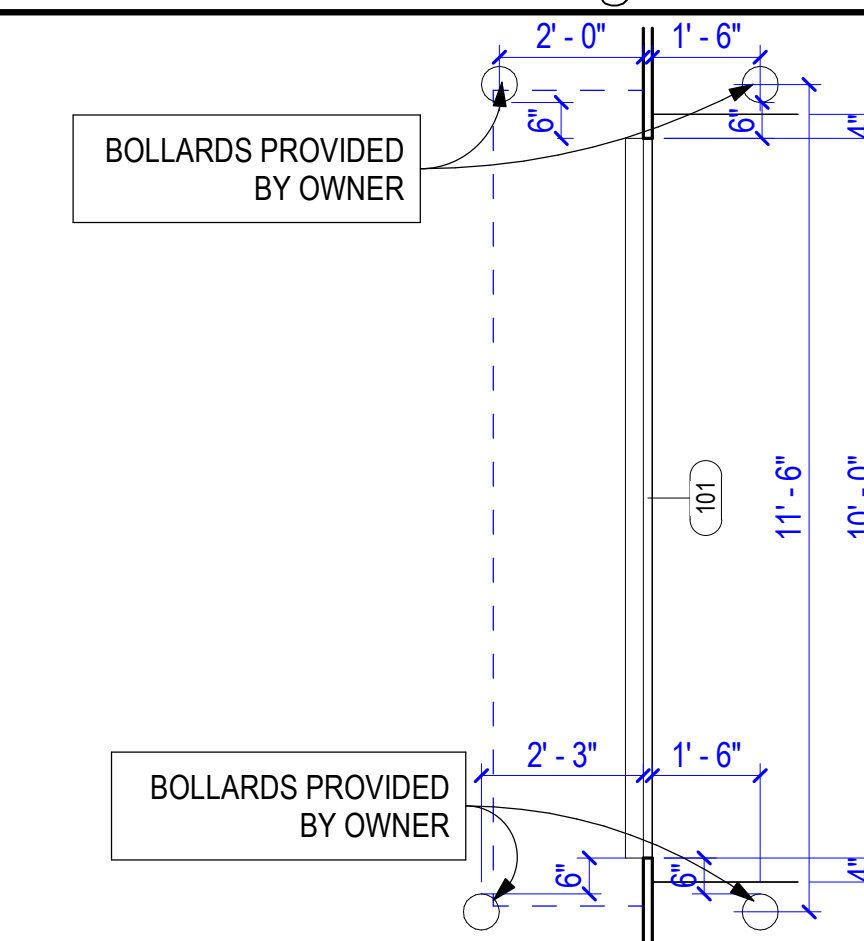
NOTE: FACTORY-BUILT FENESTRATION AND DOORS ARE LABELED AS MEETING  
 AIR LEAKAGE REQUIREMENTS.

NOTE: DOOR HARDWARE RELEASE OF ELECTRIC LOCKING SYSTEMS SHALL BE  
 PERMITTED ON DOORS IN THE MEANS OF EGRESS IN ANY OCCUPANCY (IBC  
 1010.2.11).

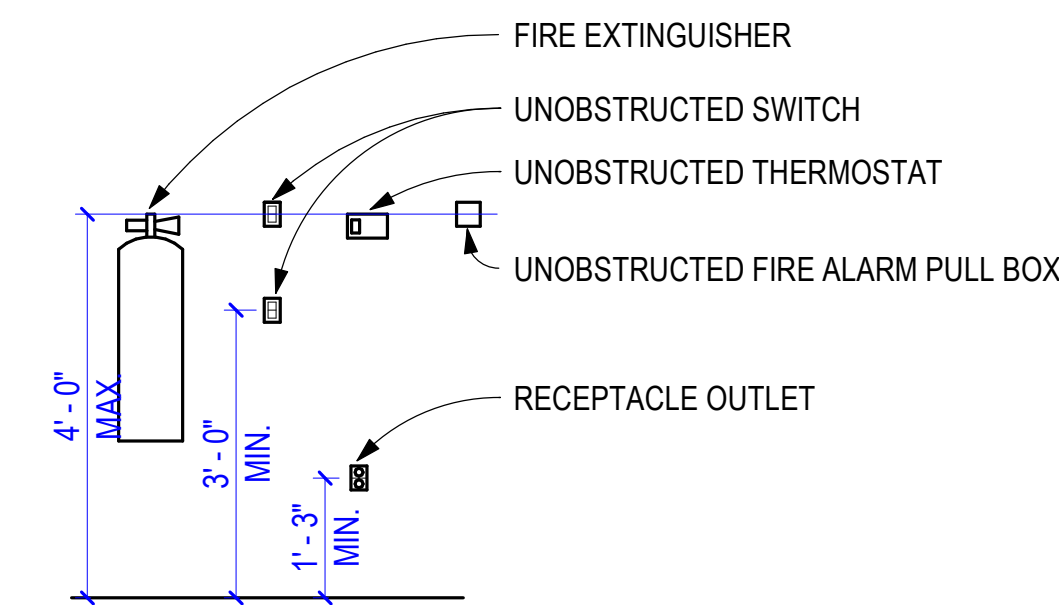
NOTE: SENSOR RELEASE OF ELECTRIC LOCKING SYSTEMS SHALL BE  
 PERMITTED ON DOORS LOCATED IN THE MEANS OF EGRESS IN ANY  
 OCCUPANCY.



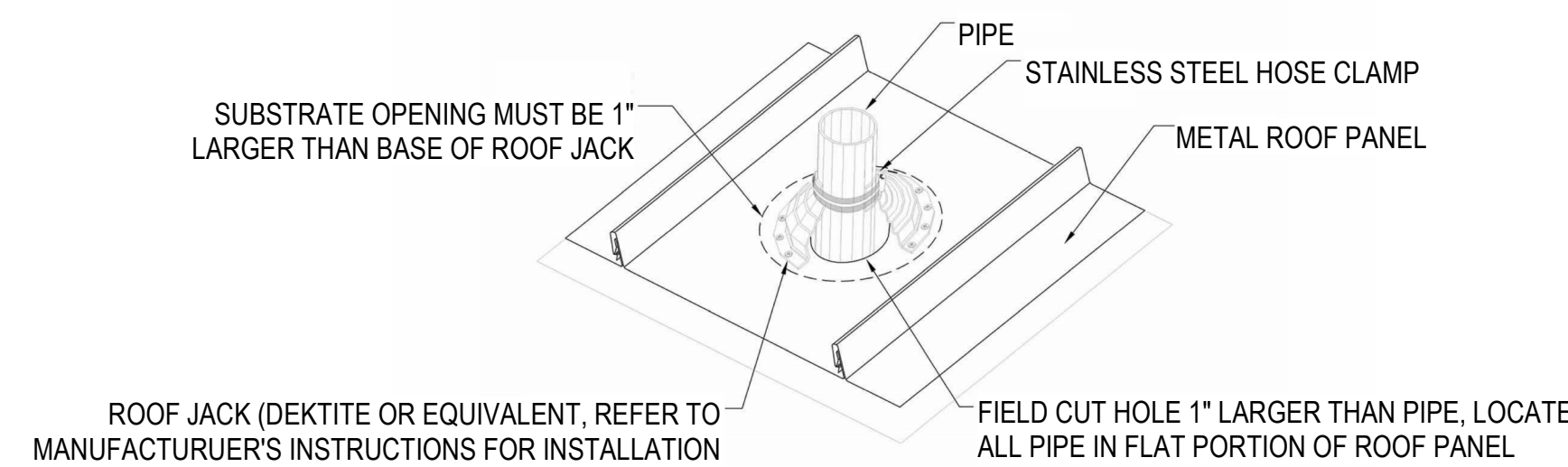
3C 100120 OVERHEAD COILING DOOR - STORMTITE AP MODEL 627  
 N.T.S.



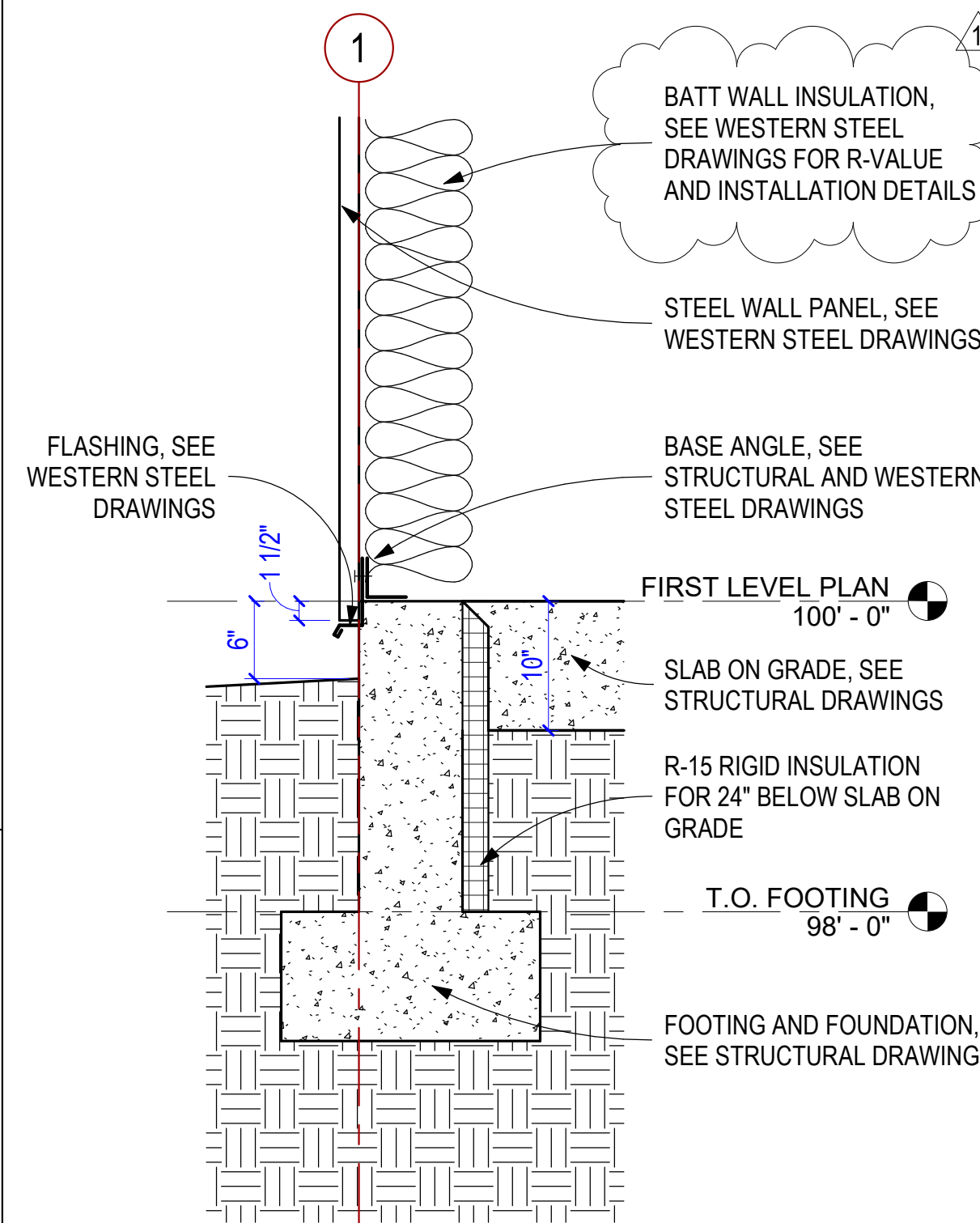
5D BOLLARDS @ OVERHEAD DOOR  
 3/8\" = 1'-0"



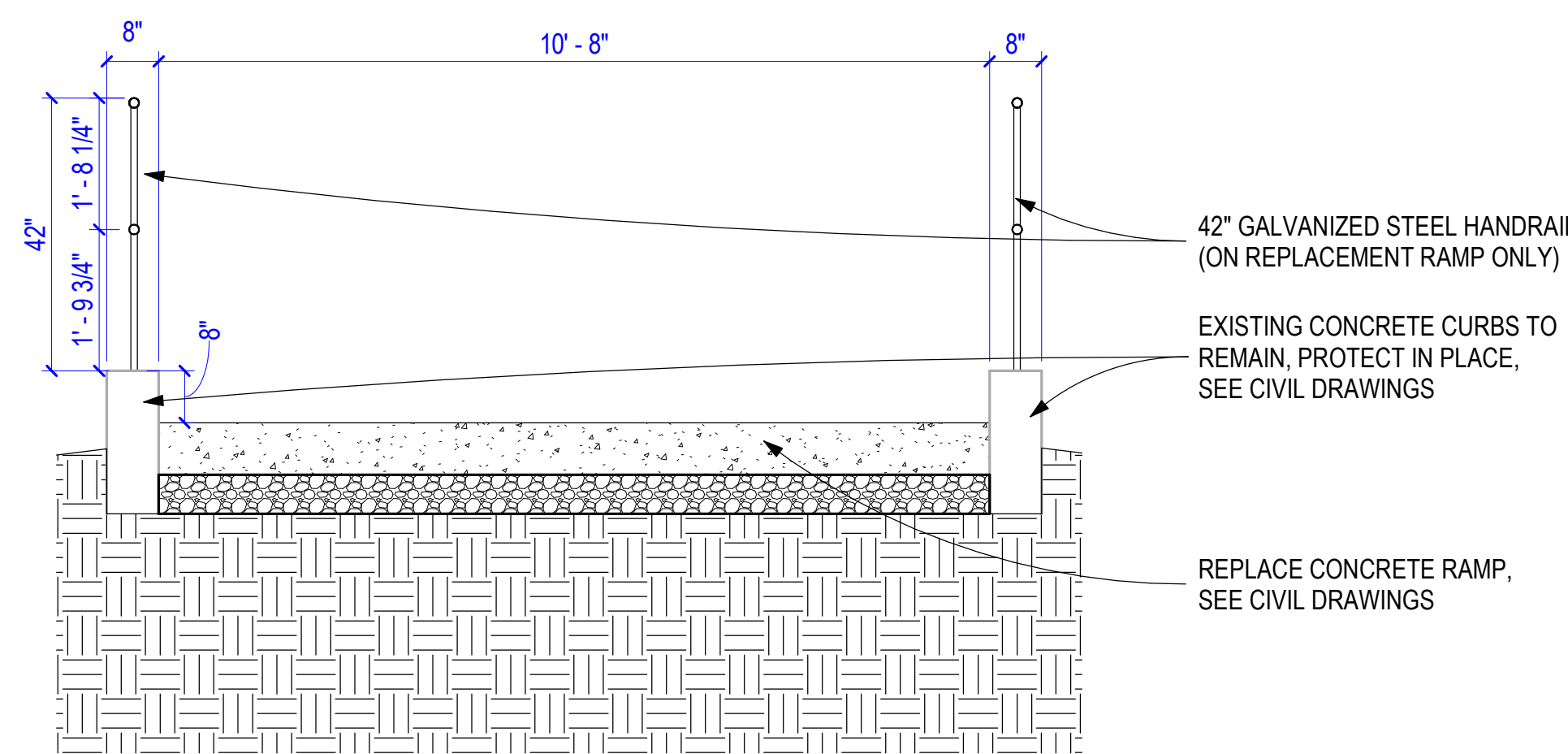
5C RECEPTACLES AND SWITCH MOUNTING HEIGHTS  
 1/2\" = 1'-0"



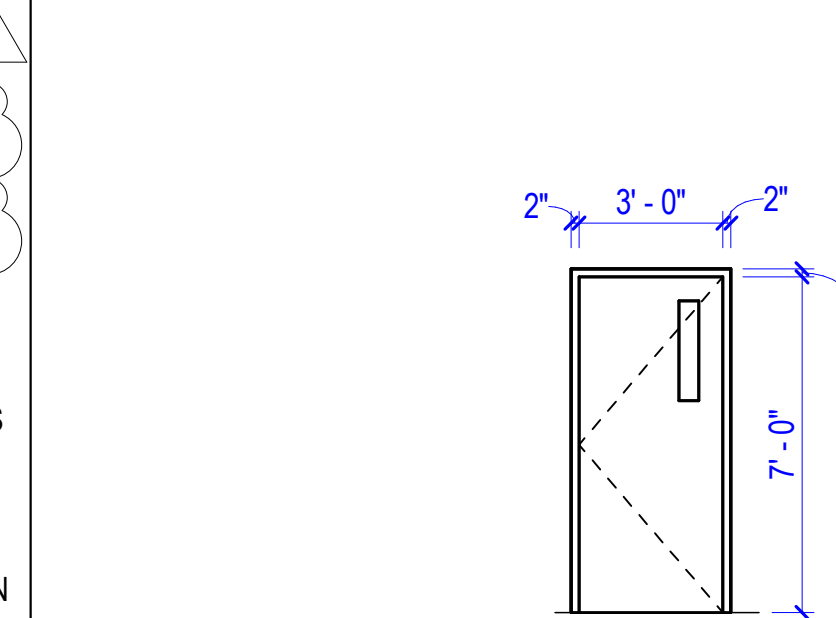
2B PIPE PENETRATION DETAIL  
 N.T.S.



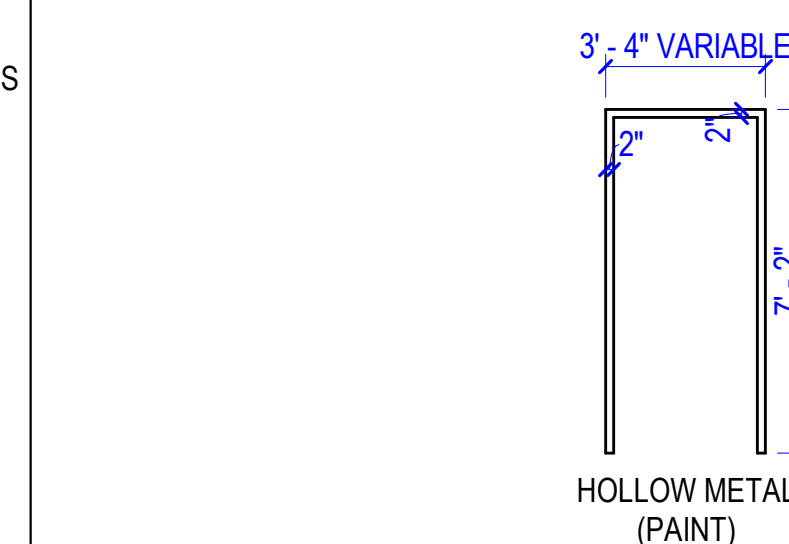
4A EXTERIOR WALL @ FOUNDATION  
 1\" = 1'-0"



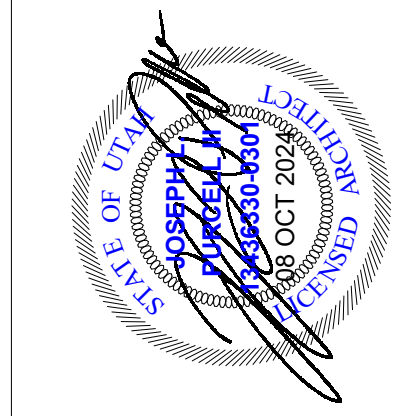
2A RAMP, CURB, AND HANDRAIL DETAIL  
 1/2\" = 1'-0"



5B 3070 INSULATED METAL DOOR  
 1/4\" = 1'-0"



5A FRAME ELEVATIONS  
 1/4\" = 1'-0"



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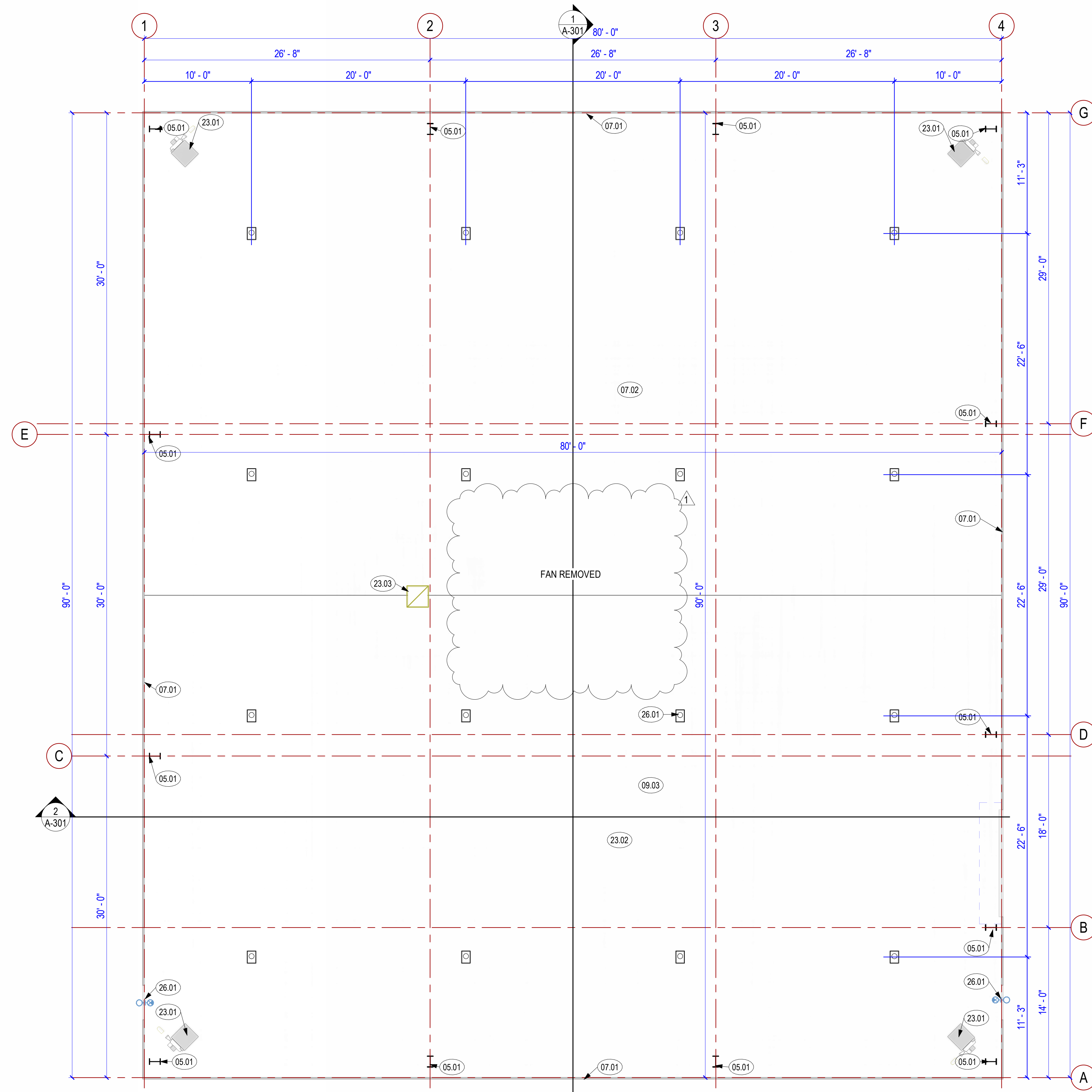
Rev.	Date	Description
1	10/23/24	Revision 1

REV:	1
Submitted:	08 OCT 2024
Designer:	CJK
Drawn by:	TRP
Reviewed by:	TRP
Submitted by:	TRP
Scale:	As indicated
Project Number:	E02022P

**KCC STORES WAREHOUSE**  
 2010 N. RULON WHITE BLVD.  
 FARR WEST, UT 84404  
 PERMIT SUBMITTAL

ARCHITECTURAL DETAILS AND SCHEDULES

SHEET NUMBER  
**A-501**

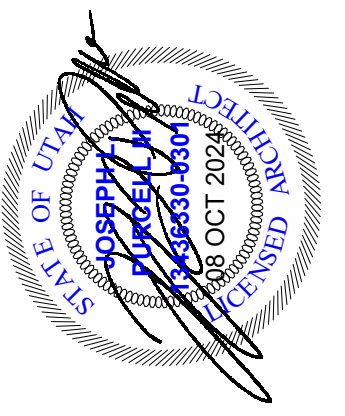


- ### KEYED NOTES
- 05.01 STEEL COLUMN, SEE WESTERN STEEL AND STRUCTURAL DRAWINGS
  - 07.01 BATT WALL INSULATION, SEE WESTERN STEEL FOR R-VALUES AND INSTALLATION DETAILS
  - 07.02 BATT ROOF INSULATION, SEE WESTERN STEEL FOR R-VALUES AND INSTALLATION DETAILS
  - 09.03 OPEN TO STRUCTURE ABOVE
  - 23.01 SEE DETAIL A5/M-501 FOR FLASHING DETAIL AT ROOF PENETRATION
  - 23.02 CEILING MOUNTED FANS PROVIDED BY OWNER, INSTALLED BY CONTRACTOR, SEE MECHANICAL AND ELECTRICAL DRAWINGS
  - 23.03 EXHAUST FAN, SEE DETAIL A3/M-501 FOR ROOF CURB AND FLASHING
  - 26.01 LIGHTING FIXTURE, SEE ELECTRICAL DRAWINGS

### REFLECTED CEILING PLAN LEGEND

- EXIT SIGN
- WALL MOUNTED LIGHT
- SURFACE MOUNTED LIGHT

**1** FIRST LEVEL REFLECTED CEILING PLAN  
3/16" = 1'-0"



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Rev.	Description	Date	Appr.
1	Revision 1	10/23/24	

REV:	Submitted:	Designed by:	Drawn by:	Reviewed by:	Submitted by:
1	08 OCT 2024	TRP	CJK	TRP	TRP

**KCC STORES WAREHOUSE**  
2010 N. RULON WHITE BLVD.  
FARR WEST, UT 84404  
PERMIT SUBMITTAL

FIRST LEVEL REFLECTED CEILING PLAN

SHEET NUMBER  
**A-701**

**SYMBOL LEGEND - PIPING**

NOTE: ALL ABBREVIATIONS MAY NOT BE USED.

SYMBOL	DESCRIPTION
	SHUT OFF VALVE
	GATE VALVE
	CHECK VALVE
	AUTOMATIC 2-WAY VALVE
	AUTOMATIC 3-WAY VALVE
	GLOBE VALVE
	BALL VALVE
	RELIEF VALVE
	PRESSURE REDUCING VALVE
	BUTTERFLY VALVE
	SOLENOID VALVE
	ANGLE VALVE
	VENTURI VALVE
	BALANCING OR PLUG COCK
	FLOW SETTER
	EXPANSION VALVE
	GAS COCK
	MANUAL AIR VENT
	STRAINER
	GAUGE COCK
	FLEXIBLE CONNECTION
	PRESSURE GAUGE
	THERMOMETER
	PIPE REDUCER
	REFRIGERANT SITE GLASS
	REFRIGERANT STRAINER
	REFRIGERANT FILTER DRIER
	90 DEGREE ELBOW UP
	90 DEGREE ELBOW DOWN
	90 DEGREE TEE UP
	90 DEGREE TEE DOWN
	PIPE UNION
	PIPE CAP
	PIPE ANCHOR
	FLOAT AND THERMOSTATIC TRAP

**SYMBOL LEGEND - MECH**

NOTE: ALL ABBREVIATIONS MAY NOT BE USED.

SYMBOL	DESCRIPTION
	SQUARE OR RECTANGULAR SUPPLY DIFFUSER
	SQUARE OR RECTANGULAR RETURN DIFFUSER
	SQUARE OR RECTANGULAR EXHAUST DIFFUSER
	ROUND DIFFUSER
	LINEAR SLOT GRILLE OR DIFFUSER
	FLEXIBLE DUCT
	SIDEWALL GRILLE OR REGISTER
	DUCT HIGH EFFICIENCY TAKE OFF WITH BALANCING DAMPER
	BALANCING DAMPER
	FIRE DAMPER
	FIRE / SMOKE COMBINATION DAMPER
	THERMOSTAT - SENSOR - HUMIDISTAT

**SYMBOL LEGEND - DUCTWORK**

NOTE: ALL ABBREVIATIONS MAY NOT BE USED.

SYMBOL	DESCRIPTION
	RECTANGULAR SUPPLY DUCT UP
	RECTANGULAR SUPPLY DUCT DOWN
	RECTANGULAR RETURN DUCT UP
	RECTANGULAR RETURN DUCT DOWN
	RECTANGULAR EXHAUST DUCT UP
	RECTANGULAR EXHAUST DUCT DOWN
	ROUND SUPPLY DUCT UP
	ROUND SUPPLY DUCT DOWN
	ROUND RETURN DUCT UP
	ROUND RETURN DUCT DOWN
	ROUND EXHAUST DUCT UP
	ROUND EXHAUST DUCT DOWN
	OVAL SUPPLY DUCT UP
	OVAL SUPPLY DUCT DOWN
	OVAL RETURN DUCT UP
	OVAL RETURN DUCT DOWN
	OVAL EXHAUST DUCT UP
	OVAL EXHAUST DUCT DOWN
	SPIRAL OVAL DUCT
	SPIRAL ROUND DUCT
	DUCT INSULATION
	DUCT LINING
	90° RECTANGULAR ELBOW WITH TURNING VANES
	90° ROUND RADIUS ELBOW
	90° GORED OVAL RADIUS ELBOW
	DUCT SIZE OR SHAPE TRANSITION
	DUCT TO BE DEMOLISHED

**PIPING LEGEND**

NOTE: ALL ABBREVIATIONS MAY NOT BE USED.

ABBREVIATION	DESCRIPTION
—CHWR—	CHILLED WATER RETURN
—CHWS—	CHILLED WATER SUPPLY
—CA—	COMPRESSED AIR
—CD—	CONDENSATE DRAIN
—CO2—	CARBON DIOXIDE
—CWR—	CONDENSER WATER RETURN
—CWS—	CONDENSER WATER SUPPLY
—FP—	FIRE PROTECTION
—FOR—	FUEL OIL RETURN
—FOS—	FUEL OIL SUPPLY
—FOV—	FUEL OIL VENT
—GR—	GLYCOL RETURN
—GS—	GLYCOL SUPPLY
—HPC—	HIGH PRESSURE CONDENSATE
—MPC—	MEDIUM PRESSURE CONDENSATE
—LPC—	LOW PRESSURE CONDENSATE
—HPS—	HIGH PRESSURE STEAM
—MPS—	MEDIUM PRESSURE STEAM
—LPS—	LOW PRESSURE STEAM
—HHWR—	HEATING HOT WATER RETURN
—HHWS—	HEATING HOT WATER SUPPLY
—LPG—	LIQUID PROPANE GAS
—MA—	MEDICAL AIR
—NG—	NATURAL GAS
—NO—	NITROUS OXIDE
—O—	OXYGEN
—PC—	PUMPED CONDENSATE
—RG—	REFRIGERANT GAS
—RL—	REFRIGERANT LIQUID
—SMR—	SNOW MELT RETURN
—SMS—	SNOW MELT SUPPLY
—VAC—	VACUUM

**SYMBOL LEGEND - MISC**

REFERENCE LINES AND SYMBOLS

SYMBOL	DESCRIPTION
	VIEW OR DETAIL INDICATOR; # INDICATES DETAIL NUMBER, SHEET INDICATES DRAWING SHEET WHERE VIEW OR DETAIL IS SHOWN.
	ELEVATION OR SECTION INDICATOR; # INDICATES VIEW NUMBER, SHEET INDICATES DRAWING SHEET WHERE VIEW IS SHOWN.
	ROOM / SPACE INDICATOR
	KEYNOTE INDICATOR
	REVISION INDICATOR
	PLUMBING FIXTURE INDICATOR
	EQUIPMENT INDICATOR
	REGISTER, GRILLE, OR DIFFUSER INDICATOR
	BREAKLINE
	MATCHLINE INDICATOR
	CONTRACT LIMIT LINE: DASHDOT, WIDE LINE
	NEW CONNECTION TO EXISTING
	POINT OF DEMOLITION

**ABBREVIATIONS**

NOTE: ALL ABBREVIATIONS MAY NOT BE USED.

(E)	EXISTING
(F)	FUTURE
AC	AIR CONDITION(-ING,-ED)
APD	AIR PRESSURE DROP
BD	BALANCING DAMPER
BHP	BRAKE HORSE POWER
BTU	BRITISH THERMAL UNIT
BTU/HOUR	BTU/HOUR
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CV	CONTROL VALVE
DB	DRY BULB TEMPERATURE
DCW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER
DHW/R	DOMESTIC HOT WATER RECIRC
DP	DEPTH, DEEP, OR DROP IN PRESSURE
EA	EXHAUST AIR
EER	ENERGY EFFICIENCY RATIO
EFF	EFFICIENCY
ELEC	ELECTRIC
ELEV	ELEVATION
ENT	ENTERING
EVAP	EVAPORATE(-E, -ING, -ED, -OR)
EWV	ENTERING WATER TEMPERATURE
EXT	EXTERNAL
FD	FIRE DAMPER
FLA	FULL LOAD AMPS
FP	FINS PER INCH
FS	FEET PER SECOND
FFM	FEET PER MINUTE
FPS	FEET PER SECOND
FSD	FIRE SMOKE DAMPER
GE	GREASE EXHAUST
GPM	GALLONS PER MINUTE
GP	GALLONS PER HOUR
HD	HEAD
HG	MERCURY
HP	HORSEPOWER
HR	HOUR
HTG	HEATING
HZ	HERTZ (FREQUENCY)
IN	INCH
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LH	LATENT HEAT
LRA	LOCKED ROTOR AMPS
LVS	LEAVING WATER TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
MBH	THOUSAND BTU PER HOUR
MCA	MINIMUM CIRCUIT AMPS
MFR	MANUFACTURER(-ER, -ED)
NC	NORMALLY CLOSED OR NOISE CRITERIA
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NPSH	NET POSITIVE SUCTION HEAD
NTS	NOT TO SCALE
OD	OUTSIDE DIAMETER
OZ	OUNCE
PD	PRESSURE DROP OR DIFFERENCE
PG	PROPYLENE GLYCOL
PH	PHASE
PPM	PARTS PER MILLION
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIA	PSI ABSOLUTE
PSIG	PSI GAUGE
RA	RETURN AIR
RECIRC	RECIRCULATE (-ER, -ED, -ING)
REFR	REFRIGERATION
REQD	REQUIRED
RLA	RATED LOAD AMPS
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SCFM	STANDARD CUBIC FEET PER MINUTE
SCW	SOFT COLD WATER
SH	SENSIBLE HEAT
SP	STATIC PRESSURE
SPEC(S)	SPECIFICATION(S)
SQ	SQUARE
SS	SANITARY SEWER, SOIL, WASTE
ST	STANDARD
TA	TRANSFER AIR
TD	TEMP. DROP OR DIFF.
TEMP	TEMPERATURE
TOT	TOTAL
TSTAT	THERMOSTAT
TYP	TYPICAL
V	VOLT, VOLTAGE OR VENT
VAC	VACUUM
VAV	VARIABLE AIR VOLUME
VEL	VELOCITY
VENT	VENT, VENTILATION
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VOL	VOLUME
VTR	VENT THROUGH ROOF
WB	WET BULB TEMP
WC	WATER COLUMN
WG	WATER GAUGE
WPD	WATER PRESSURE DROP
WTR	WATER

- MECHANICAL GENERAL NOTES**
- THE MECHANICAL DRAWINGS SHOW THE GENERAL DESIGN, ARRANGEMENT, & EXTENT OF THE MECHANICAL SYSTEM. BECAUSE OF THE SMALL SCALE OF THE DRAWINGS, THESE DRAWINGS DO NOT SHOW ALL OFFSETS, BENDS, OR ELBOWS NECESSARY FOR THE COMPLETE INSTALLATION IN THE SPACE PROVIDED. CONTRACTOR SHALL MAKE ALTERATIONS AS MAY BE NECESSARY TO MAKE THE SYSTEM COMPLETE & OPERATIONAL IN ACCORDANCE WITH THE DESIGN INTENT.
  - MAJOR DEVIATIONS SUCH AS CHANGES IN SIZES, WEIGHTS, QUANTITIES, OR MATERIAL REQUIRE PRIOR APPROVAL BY THE DESIGN ENGINEER.
  - THE DRAWINGS & SPECIFICATIONS HAVE BEEN PREPARED TO SUPPLEMENT EACH OTHER & SHALL BE INTERPRETED AS AN INTEGRAL UNIT WITH THE ITEMS SHOWN ON ONE & NOT THE OTHER BEING FURNISHED & INSTALLED AS THOUGH SHOWN AND CALLED OUT IN BOTH DOCUMENTS.
  - THE ENTIRE MECHANICAL INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE MOST RECENTLY ADOPTED BUILDING CODES, MECHANICAL CODE, PLUMBING CODE, ELECTRICAL CODE, & ALL OTHER APPLICABLE CITY, COUNTY, STATE, & FEDERAL CODES & REGULATIONS IN EFFECT.
  - THE ENTIRE MECHANICAL INSTALLATION SHALL CONFORM TO ALL CODES, RULES, REGULATIONS, & REQUIREMENTS OF THE BUILDING OWNER.
  - ALL MECHANICAL COMPONENTS AND EQUIPMENT SHALL BE INSTALLED TO CONFORM WITH ANY APPLICABLE LOCAL SEISMIC REQUIREMENTS.
  - PRIOR TO FABRICATION & INSTALLATION OF ANY MECHANICAL COMPONENT THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL MECHANICAL WORK WITH ALL OTHER BUILDING TRADES, INCLUDING BUILDING TRADES HIRED DIRECTLY BY THE OWNER, WHERE CONFLICTS MAY OCCUR, THEY SHALL BE RESOLVED PRIOR TO INSTALLATION.
  - VERIFY ALL REQUIRED SERVICE CONNECTIONS, INCLUDING ELECTRICAL CHARACTERISTICS, FOR ALL EQUIPMENT PRIOR TO ORDERING OR FABRICATING MECHANICAL EQUIPMENT AND COMPONENTS.
  - THE SPACE ABOVE CEILINGS IS LIMITED, CAREFUL COORDINATION IS REQUIRED WITH ALL TRADES BEFORE ANY PIPE, DUCT, OR EQUIPMENT IS ORDERED &/OR INSTALLED. ANY CONFLICTS OR CHANGES FOUND DURING INSTALLATION THAT RESULTS FROM THE LACK OF COORDINATION BY THE CONTRACTORS DURING THE SHOP DRAWING PROCESS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
  - ALL MECHANICAL INFORMATION IS NOT SHOWN ON THE MECHANICAL DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL INFORMATION ON ALL OTHER DRAWING DOCUMENTS.
  - THE CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW & USE, WHERE APPROPRIATE, ALL THE MECHANICAL DETAILS SHOWN ON THE DRAWINGS. DETAILS MAY OR MAY NOT BE CALLED OUT ON THE DRAWINGS WITH SYMBOLS OR KEVED NOTES. ANY CHANGES RESULTING FROM FAILURE TO INSTALL THE MECHANICAL SYSTEM WITHOUT USING THE INCLUDED DETAILS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
  - ALL EQUIPMENT SHALL BE INDEPENDENTLY SUPPORTED FROM STRUCTURAL MEMBERS. STRUCTURAL ELEMENTS SHOWN IN DETAILS MAY OR MAY NOT PERTAIN TO ANY PORTION OF THE BUILDING. COORDINATE ALL MOUNTING REQUIREMENTS WITH ARCHITECTURAL & STRUCTURAL DRAWINGS AND SPECIFICATIONS.
  - ALL MECHANICAL COMPONENTS AND EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH ALL MANUFACTURER RECOMMENDATIONS.
  - ALL SIMILAR EQUIPMENT SHALL BE OF THE SAME MANUFACTURER. AIR INLETS & OUTLETS OF SIMILAR TYPES SHALL BE OF THE SAME MANUFACTURER.
  - ANY PART OF THE MECHANICAL INSTALLATION THAT FAILS, IS DEEMED UNFIT, OR BECOMES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EQUIPMENT CHECK-IN, SAFEFEEPING, & DAMAGE.
  - COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING DIFFUSERS & GRILLES.
  - CONTRACTOR SHALL OPERATE INSTALLED &/OR MODIFIED SYSTEMS & DEMONSTRATE ALL ASPECTS OF THE SYSTEM TO THE ENGINEER &/OR OWNER TO PROVE ALL ASSOCIATED SYSTEMS ARE OPERATIONAL.
  - DURING CONSTRUCTION THE CONTRACTOR SHALL MAINTAIN A SET OF AS-BUILT RED LINED RECORD DRAWINGS AT THE PROJECT SITE. ALL CHANGES OR DEVIATIONS IN LAYOUT, ROUTING, EQUIPMENT, COMPONENTS, & ACCESSORIES SHALL BE RECORDED. THESE RED LINED DRAWINGS SHALL BE GIVEN TO THE ARCHITECT / ENGINEER AFTER THE FINAL INSPECTION IN ACCORDANCE WITH PROJECT SPECIFICATIONS.
  - ALL DUCT ELBOWS SHALL BE LONG RADIUS, UNLESS NOTED OTHERWISE.

**DEFINITIONS**

NOTE: ALL DEFINITIONS MAY NOT BE USED.

INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE "CONTRACT" DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED.

DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", "AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY THE ENGINEER", "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES.

APPROVED: THE TERM "APPROVED", WHERE USED IN CONJUNCTION WITH THE ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES AND RESPONSIBILITIES AS STATED IN GENERAL AND SUPPLEMENTARY CONDITIONS.

FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS."

INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS."

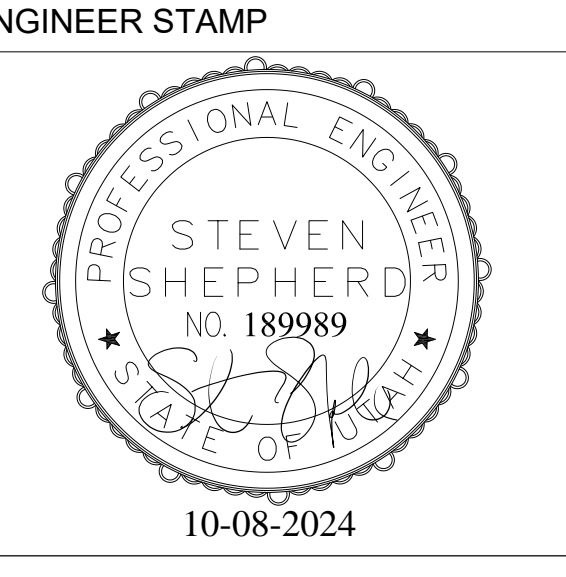
PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE."

INSTALLER: AN "INSTALLER" IS THE CONTRACTOR OR AN ENTITY ENGAGED BY THE CONTRACTOR, EITHER AS AN EMPLOYEE, SUBCONTRACTOR, OR SUB-SUBCONTRACTOR, FOR PERFORMANCE OF A PARTICULAR CONSTRUCTION ACTIVITY, INCLUDING INSTALLATION, ERECTION, APPLICATION, AND SIMILAR OPERATIONS. INSTALLERS ARE REQUIRED TO BE EXPERIENCED IN THE OPERATIONS THEY ARE ENGAGED TO PERFORM.

**MECHANICAL SHEET INDEX**

M-001	MECHANICAL COVER SHEET
M-101	LEVEL 1 MECHANICAL PLAN
M-501	MECHANICAL DETAILS & SCHEDULES

**SPECTRUM ENGINEERS**  
 324 S. State St., Suite 400  
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 801-328-5151  
 fax: 801-328-5155  
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**KCC STORES WAREHOUSE**

2010 N. RULON WHITE BLVD. FARR WEST, UT 84404

Mark:	Date:	Description
ISSUE:	PERMIT SUBMITTAL	
DATE:	12 NOVEMBER 2024	

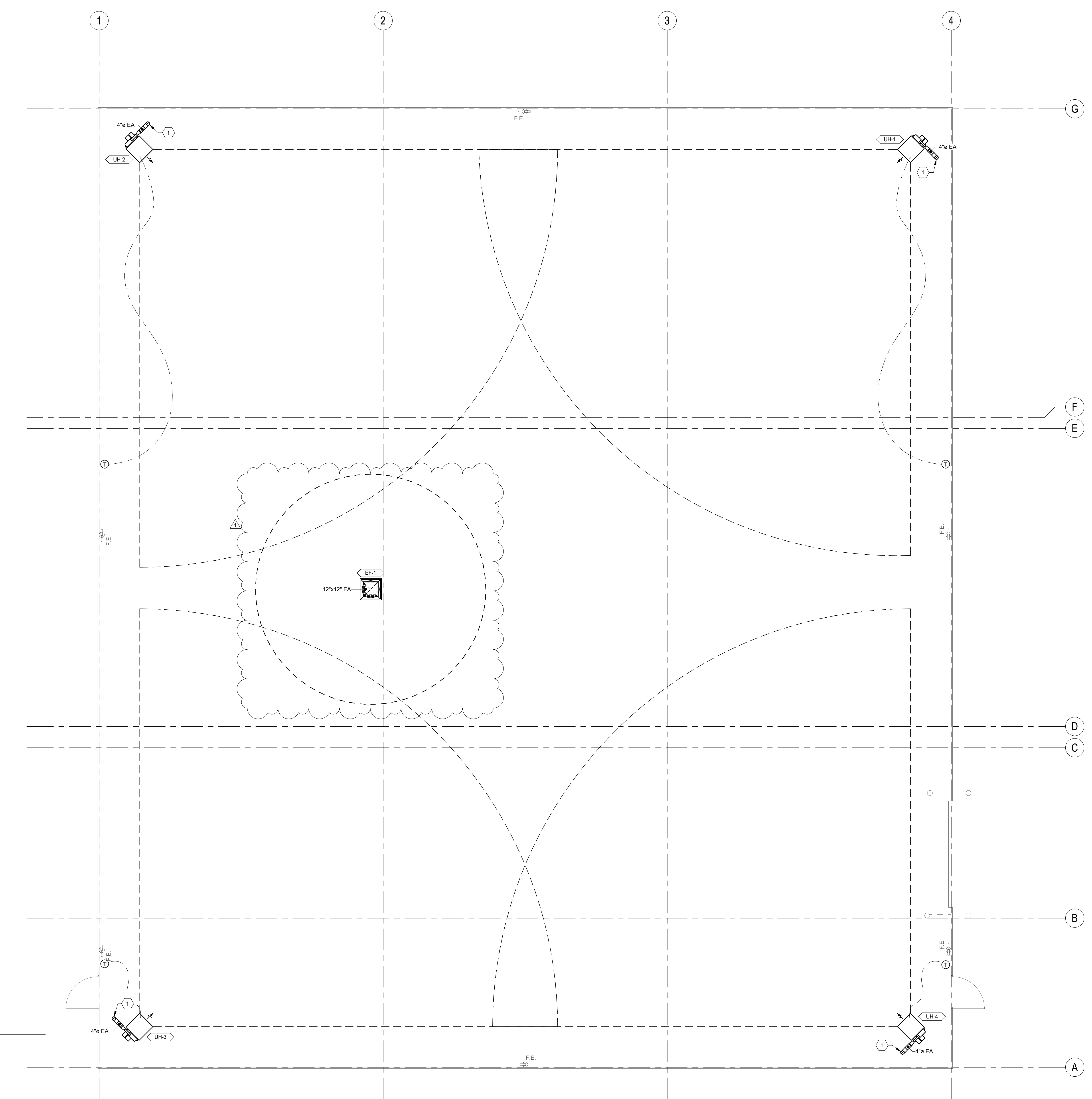
SPECTRUM PROJECT NO: 244022  
 DRAWN BY: DTS  
 CHECKED BY: AJB  
 DESIGNED BY: AJB  
 RECORD DRAWING DATE:

SIGNATURE:  
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 SHEET TITLE  
**MECHANICAL COVER SHEET**

**M-001**

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A



### MECHANICAL GENERAL NOTES

- ALL EQUIPMENT TO BE SELECTED BASED OFF OF SITE INFORMATION, INCLUDING CURBS EQUAL TO OR GREATER THAN DESIGN SNOW DEPTH. ELEVATION: 4400' WDB: 5' DESIGN SNOW DEPTH: 18"
- THIS CONTRACTOR SHALL CLOSELY COORDINATE MECHANICAL AND PLUMBING WITH ELECTRICAL, ARCHITECTURAL, AND BUILDING STRUCTURE.
- COORDINATE EXACT THERMOSTAT LOCATIONS WITH FURNITURE AND OWNER. FAILURE TO DO SO MAY REQUIRE MOVING THERMOSTATS AT CONTRACTORS COST.
- CONTRACTOR SHALL FIELD VERIFY EXISTING FIELD CONDITIONS PRIOR TO ORDERING OR FABRICATING. ADDITIONAL COST WILL NOT BE ALLOWED FOR CONTRACTOR'S FAILURE TO BECOME FAMILIAR WITH EXISTING SITE CONDITIONS.
- PROVIDE FACTORY AUTHORIZED STARTUP OF ALL EQUIPMENT INCLUDING STARTUP OF ANY FACTORY CONTROLS TO ENSURE PROPER SEQUENCING AND/OR COMMUNICATION TO BMS.
- PROVIDE OPERATION AND MAINTENANCE MANUALS (O&M) WITHIN 30 DAYS OF CERTIFICATE OF OCCUPANCY FOR ALL EQUIPMENT IN DIGITAL FORMAT TO ENGINEER FOR REVIEW. O&M'S SHALL INCLUDE DOCUMENTATION OF ALL WARRANTIES, REPORTS AND TESTS, RECORD DRAWINGS, CONTROLS SEQUENCE OF OPERATIONS WITH DIAGRAMS, & EQUIPMENT INFORMATION. EQUIPMENT INFORMATION INCLUDES MAKE & MODEL, WIRING, PIPING, STARTUP, SHUTDOWN, TROUBLE SHOOTING SYSTEM AND MAINTENANCE PROCEDURES.
- WHERE JURISDICTION REQUIRES, CONTRACTOR IS RESPONSIBLE FOR PROVIDING SEISMIC RESTRAINT AND SUPPORT ENGINEERED BY A LICENSED STRUCTURAL ENGINEER. PROVIDE DESIGN DRAWINGS TO AUTHORITY HAVING JURISDICTION AND MECHANICAL ENGINEER FOR REVIEW.

### SHEET KEYNOTES

- VENT TO ROOF.

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## KCC STORES WAREHOUSE

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Mark	Date	REV	Description
1	11/12/24	REV 1	

ISSUE: PERMIT SUBMITTAL  
 DATE: 12 NOVEMBER 2024

SPECTRUM PROJECT NO: 244022  
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 CHECKED BY: AJB  
 DESIGNED BY: AJB  
 RECORD DRAWING DATE:

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 SHEET TITLE  
 LEVEL 1 MECHANICAL PLAN

# M-101

**A1 LEVEL 1 MECHANICAL PLAN**  
 SCALE: 1/4" = 1'-0"

1 2 3 4 5 6

Autodesk Docs://EA24022TP - KC PEMB Structure - Ogden/244022-Mech Central.rvt  
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E

D

C

B

A

### HEATER SCHEDULE (GAS FIRED)

ACCEPTABLE MANUFACTURERS:		REMARKS:										SCHEDULE KEY:									
MODINE REZNOR DETROIT RADIANT STERLING		(1) PROVIDE WITH STAINLESS STEEL HEAT EXCHANGER. (2) PROVIDE WITH HIGH ALTITUDE KIT. (43) PROVIDE WITH FINGER PROOF FAN GUARD.										PLUMB = DIVISION 22 MECH = DIVISION 23 ELEC = DIVISION 26 MFR = MANUFACTURER									
LABEL	TYPE	MOUNTING HEIGHT (AFF)	AIRFLOW (CFM)	HEATING CAPACITY INPUT (BTUH)	HEATING CAPACITY OUTPUT (BTUH)	STAGES	AIR TEMP RISE (°F)	HEAT THROW	VENTING TYPE	SIZE	VOLTS	PHASE	Hz	MCA	MOCP	EMERG POWER	DISCONNECT PROVIDED BY (MECH/ ELEC)	WEIGHT (LBS)	MANUFACTURER	MODEL	REMARKS
UH-1	HORIZONTAL FLOW	14' - 0"	1,650	85,000	79,050	1	70	38'	DOUBLE WALL B VENT	4"	120	1	60	5	15	NO	ELEC	125	MODINE	PTC85AS0111	ALL
UH-2	HORIZONTAL FLOW	14' - 0"	1,650	85,000	79,050	1	70	38'	DOUBLE WALL B VENT	4"	120	1	60	5	15	NO	ELEC	125	MODINE	PTC85AS0111	ALL
UH-3	HORIZONTAL FLOW	14' - 0"	1,650	85,000	79,050	1	70	38'	DOUBLE WALL B VENT	4"	120	1	60	5	15	NO	ELEC	125	MODINE	PTC85AS0111	ALL
UH-4	HORIZONTAL FLOW	14' - 0"	1,650	85,000	79,050	1	70	38'	DOUBLE WALL B VENT	4"	120	1	60	5	15	NO	ELEC	125	MODINE	PTC85AS0111	ALL

### EXHAUST FAN SCHEDULE

ACCEPTABLE MANUFACTURERS:		REMARKS:										SCHEDULE KEY:					
PENN BARRY LOREN COOK TWIN CITY GREENHECK BROAN PANASONIC		(A) PROVIDE TIME CLOCK AND RUN CONTINUOUSLY DURING BUSINESS HOURS. (B) PROVIDE WITH SWITCH FOR ON/OFF SWITCH OPERATION.										(1) PROVIDE WITH BACKDRAFT DAMPER, DISCONNECT SWITCH, SUPPORT BRACKETS AND ISOLATOR, FLEXIBLE CONNECTION, AND BELT TENSIONER. (2) PROVIDE VARIABLE SPEED CONTROLLER FOR ALL DIRECT DRIVE FANS. TEST AND BALANCE CONTRACTOR SHALL MARK BALANCED POSITION ON CONTROLLER. (3) PROVIDE EC MOTOR VARIABLE SPEED FAN. (4) PROVIDE FACTORY AUTHORIZED STARTUP OF EQUIPMENT INCLUDING STARTUP OF ANY FACTORY CONTROLS TO ENSURE PROPER SEQUENCING AND/OR COMMUNICATION TO BMS.			PLUMB = DIVISION 22 MECH = DIVISION 23 ELEC = DIVISION 26 MFR = MANUFACTURER		
LABEL	SERVES	TYPE	CFM	ESP (IN-WC)	FAN RPM	VOLTS	PHASE	Hz	HP	EMERG POWER	DISCONNECT PROVIDED BY (MECH/ELEC)	CONTROL METHOD	SOUND RATING	WEIGHT (LBS)	MANUFACTURER	MODEL	REMARKS
EF-1	WAREHOUSE	DOWNBLAST	500	0.75	1725	120	1	60	1/3	NO	ELEC	A	11	41	LOREN COOK	101 ACED	ALL

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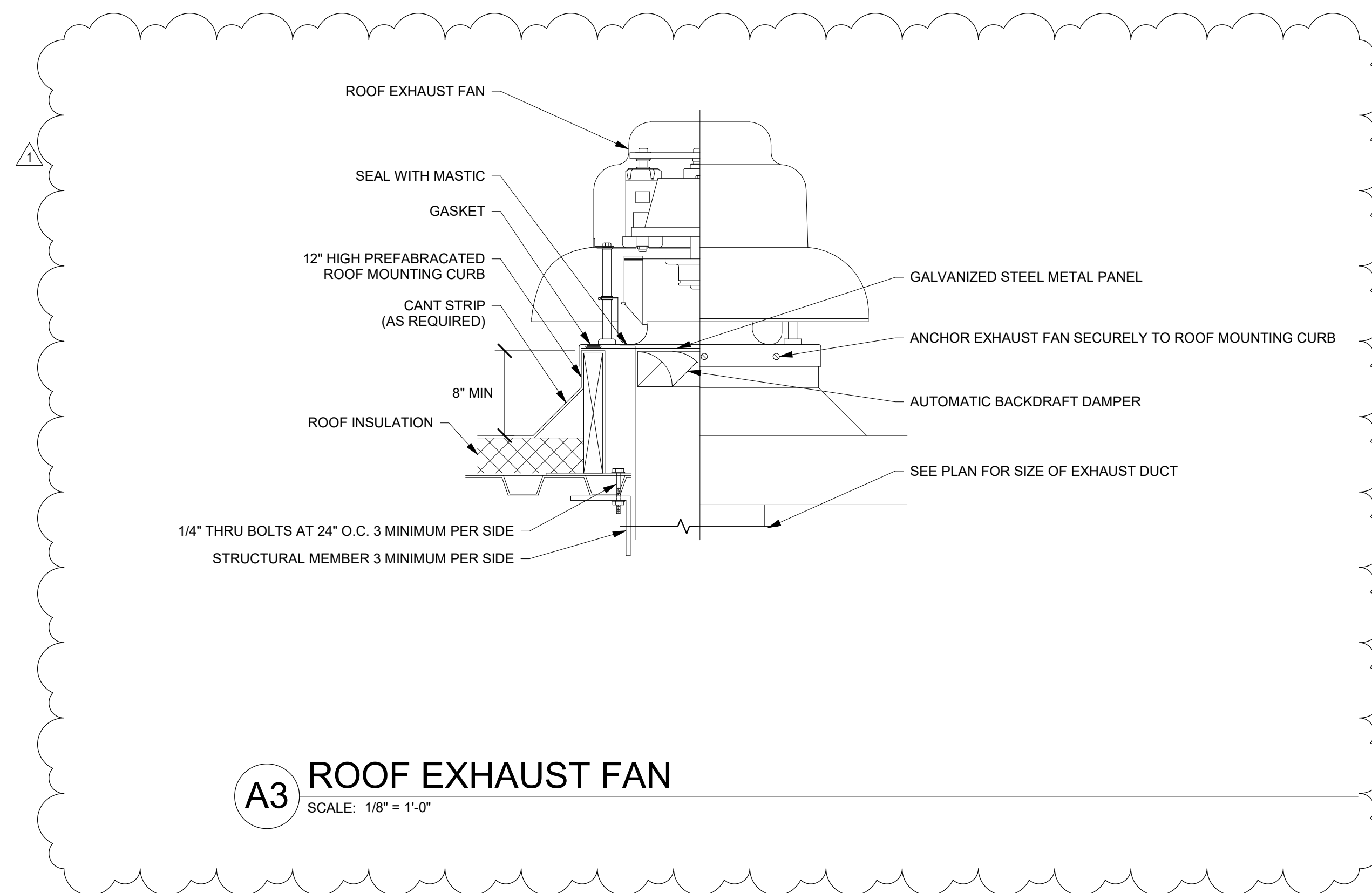
Mark	Date	REV	Description
1	11/12/24	REV 1	

ISSUE: PERMIT SUBMITTAL  
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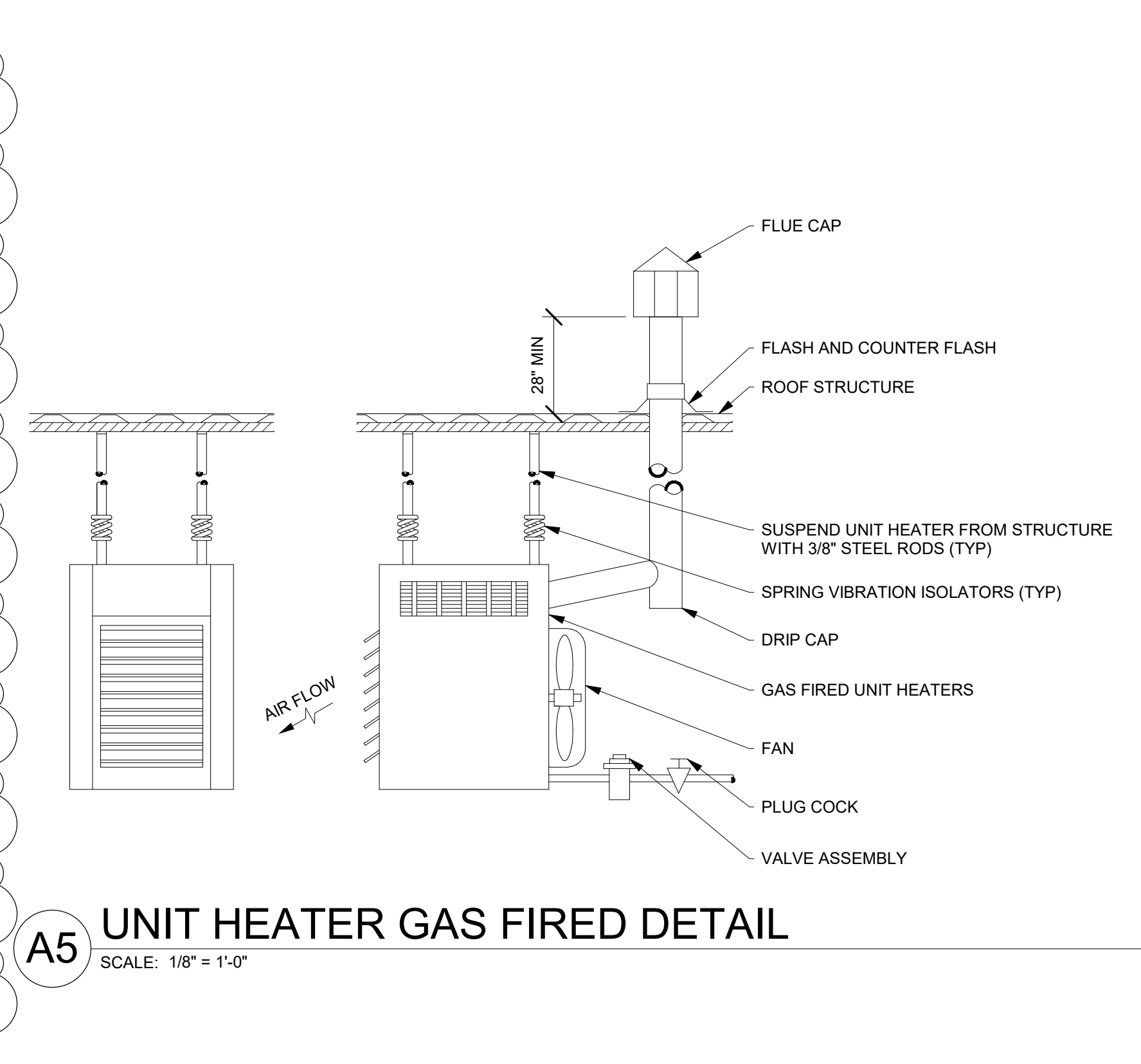
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DESIGNED BY: AJB  
RECORD DRAWING DATE:

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SHEET TITLE  
MECHANICAL DETAILS & SCHEDULES

M-501



**A3 ROOF EXHAUST FAN**  
SCALE: 1/8" = 1'-0"



**A5 UNIT HEATER GAS FIRED DETAIL**  
SCALE: 1/8" = 1'-0"

SYMBOL LEGEND - MISC	
REFERENCE LINES AND SYMBOLS	
SYMBOL	DESCRIPTION
	VIEW OR DETAIL INDICATOR: # INDICATES DETAIL NUMBER. SHEET INDICATES DRAWING SHEET WHERE VIEW OR DETAIL IS SHOWN.
	ELEVATION OR SECTION INDICATOR: # INDICATES VIEW NUMBER. SHEET INDICATES DRAWING SHEET WHERE VIEW IS SHOWN.
	ROOM / SPACE INDICATOR
	KEYNOTE INDICATOR
	REVISION INDICATOR
	PLUMBING FIXTURE INDICATOR
	EQUIPMENT INDICATOR
	REGISTER, GRILLE, OR DIFFUSER INDICATOR
	BREAKLINE
	MATCHLINE INDICATOR
	CONTRACT LIMIT LINE: DASHDOT, WIDE LINE
	NEW CONNECTION TO EXISTING
	POINT OF DEMOLITION

SYMBOL LEGEND - PIPING	
NOTE: ALL ABBREVIATIONS MAY NOT BE USED.	
SYMBOL	DESCRIPTION
	HOSE BIBB / WALL HYDRANT
	CLEANOUT TO GRADE
	FLOOR CLEANOUT
	WALL CLEANOUT
	FLOOR DRAIN
	FLOOR SINK

DEFINITIONS	
NOTE: ALL DEFINITIONS MAY NOT BE USED.	
INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED.	
DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", "AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY THE ENGINEER", "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES.	
APPROVED: THE TERM "APPROVED", WHEN USED IN CONJUNCTION WITH THE ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES AND RESPONSIBILITIES AS STATED IN GENERAL AND SUPPLEMENTARY CONDITIONS.	
FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS."	
INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS."	
PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE."	
INSTALLER: AN "INSTALLER" IS THE CONTRACTOR OR AN ENTITY ENGAGED BY THE CONTRACTOR, EITHER AS AN EMPLOYEE, SUBCONTRACTOR, OR SUB-SUBCONTRACTOR, FOR PERFORMANCE OF A PARTICULAR CONSTRUCTION ACTIVITY, INCLUDING INSTALLATION, ERECTION, APPLICATION, AND SIMILAR OPERATIONS. INSTALLERS ARE REQUIRED TO BE EXPERIENCED IN THE OPERATIONS THEY ARE ENGAGED TO PERFORM.	

PIPING LEGEND	
NOTE: ALL ABBREVIATIONS MAY NOT BE USED.	
ABBREVIATION	DESCRIPTION
160	160°F HOT WATER
160R	160°F HOT WATER RETURN / CIRCULATION
180	180°F HOT WATER
180R	180°F HOT WATER RETURN / CIRCULATION
AW	ACID WASTE
AV	ACID VENT
CO2	CARBON DIOXIDE
CWV	COMBINATION WASTE AND VENT
CA	COMPRESSED AIR
CD	CONDENSATE DRAIN
DCW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER
DHWR	DOMESTIC HOT WATER RECIRCULATION
DI	DEIONIZED WATER
DSW	DOMESTIC SOFT WATER
	DEMOLISHED PIPING
FP	FIRE PROTECTION
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FOV	FUEL OIL VENT
GW	GREASE WASTE
HPC	HIGH PRESSURE CONDENSATE
MPC	MEDIUM PRESSURE CONDENSATE
LPC	LOW PRESSURE CONDENSATE
ICW	INDUSTRIAL COLD WATER
IHW	INDUSTRIAL HOT WATER
IW	IRRIGATION WATER
LPG	LIQUID PROPANE GAS
MA	MEDICAL AIR
NG	NATURAL GAS
NO	NITROUS OXIDE
O	OXYGEN
OD	OVERFLOW ROOF DRAIN / STORM DRAIN
PC	PUMPED CONDENSATE
RD	ROOF DRAIN / STORM DRAIN
SS	SANITARY SEWER
VAC	VACUUM
V	VENT

SYMBOL LEGEND - PIPING	
NOTE: ALL ABBREVIATIONS MAY NOT BE USED.	
SYMBOL	DESCRIPTION
	SHUT OFF VALVE
	GATE VALVE
	CHECK VALVE
	AUTOMATIC 2-WAY VALVE
	AUTOMATIC 3-WAY VALVE
	GLOBE VALVE
	BALL VALVE
	RELIEF VALVE
	PRESSURE REDUCING VALVE
	BUTTERFLY VALVE
	SOLENOID VALVE
	ANGLE VALVE
	VENTURI VALVE
	BALANCING OR PLUG COCK
	FLOW SETTER
	EXPANSION VALVE
	GAS COCK
	MANUAL AIR VENT
	STRAINER
	GAUGE COCK
	FLEXIBLE CONNECTION
	PRESSURE GAUGE
	THERMOMETER
	PIPE REDUCER
	REFRIGERANT SITE GLASS
	REFRIGERANT STRAINER
	REFRIGERANT FILTER DRIER
	90 DEGREE ELBOW UP
	90 DEGREE ELBOW DOWN
	90 DEGREE TEE UP
	90 DEGREE TEE DOWN
	PIPE UNION
	PIPE CAP
	PIPE ANCHOR
	FLOAT AND THERMOSTATIC TRAP

ABBREVIATIONS	
NOTE: ALL ABBREVIATIONS MAY NOT BE USED.	
(E)	EXISTING
(F)	FUTURE
AC	AIR CONDITION(-ING,-ED)
APD	AIR PRESSURE DROP
BD	BALANCING DAMPER
BHP	BRAKE HORSE POWER
BTU	BRITISH THERMAL UNIT
BTU/HOUR	BTU/HOUR
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CV	CONTROL VALVE
DB	DRY BULB TEMPERATURE
DCW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER
DHWR	DOMESTIC HOT WATER RECIRC
DP	DEPTH, DEEP, OR DROP IN PRESSURE
EA	EXHAUST AIR
EER	ENERGY EFFICIENCY RATIO
EFF	EFFICIENCY
ELEC	ELECTRIC
ELEV	ELEVATION
ENT	ENTERING
EVAP	EVAPORATION(-E, -ING, -ED, -OR)
EW	ENTERING WATER TEMPERATURE
EXT	EXTERNAL
FD	FIRE DAMPER
FLA	FULL LOAD AMPS
FLP	FIRE PER INCH
FFM	FEET PER MINUTE
FPS	FEET PER SECOND
FSD	FIRE SMOKE DAMPER
GE	GREASE EXHAUST
GPM	GALLONS PER MINUTE
HD	HEAD
HG	MERCURY
HP	HORSEPOWER
HR	HOUR
HTG	HEATING
HZ	HERTZ (FREQUENCY)
IN	INCH
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LH	LATENT HEAT
LRA	LOCKED ROTOR AMPS
LVS	LEAVING
LWT	LEAVING WATER TEMPERATURE
MBH	THOUSAND BTU PER HOUR
MCA	MINIMUM CIRCUIT AMPS
MFR	MANUFACTURER(-ER, -ED)
NC	NORMALLY CLOSED OR NOISE CRITERIA
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NPSH	NET POSITIVE SUCTION HEAD
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OD	OUTSIDE DIAMETER
OZ	OUNCE
PD	PRESSURE DROP OR DIFFERENCE
PG	PROPYLENE GLYCOL
PH	PHASE
PPM	PARTS PER MILLION
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIA	PSI ABSOLUTE
PSIG	PSI GUAGE
RA	RETURN AIR
RECIRC	RECIRCULATE (-ER, -ED, -ING)
REFR	REFRIGERATION
REQD	REQUIRED
RLA	RATED LOAD AMPS
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SCFM	STANDARD CUBIC FEET PER MINUTE
SCW	SOFT COLD WATER
SH	SENSIBLE HEAT
SP	STATIC PRESSURE
SPEC(S)	SPECIFICATION(S)
SQ	SQUARE
SS	SANITARY SEWER, SOIL, WASTE
STD	STANDARD
TA	TRANSFER AIR
TD	TEMP. DROP OR DIFF.
TEMP	TEMPERATURE
TOT	TOTAL
TSTAT	THERMOSTAT
TYP	TYPICAL
V	VOLT, VOLTAGE OR VENT
VAC	VACUUM
VAV	VARIABLE AIR VOLUME
VEL	VELOCITY
VENT	VENT, VENTILATION
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VOL	VOLUME
VTR	VENT THROUGH ROOF
WB	WET BULB TEMP
WC	WATER COLUMN
WS	WATER GAUGE
WPD	WATER PRESSURE DROP
WTR	WATER

- ### PLUMBING GENERAL NOTES
- THE PLUMBING DRAWINGS SHOW THE GENERAL DESIGN, ARRANGEMENT AND EXTENT OF THE PLUMBING SYSTEM. BECAUSE OF THE SMALL SCALE OF THE DRAWINGS, THESE DRAWINGS DO NOT SHOW ALL OFFSETS, BENDS OR ELBOWS NECESSARY FOR THE COMPLETE INSTALLATION IN THE SPACE PROVIDED. CONTRACTOR SHALL MAKE SUCH SLIGHT ALTERATIONS AS MAY BE NECESSARY TO MAKE THE SYSTEM COMPLETE AND OPERATIONAL IN ACCORDANCE WITH THE DESIGN INTENT. MAJOR DEVIATIONS SUCH AS CHANGES IN COMPONENT SIZES, WEIGHTS, QUANTITIES OR MATERIAL REQUIRE PRIOR APPROVAL BY THE DESIGN ENGINEER.
  - THE DRAWINGS AND SPECIFICATIONS HAVE BEEN PREPARED TO SUPPLEMENT EACH OTHER AND SHALL BE INTERPRETED AS AN INTEGRAL UNIT WITH THE ITEMS SHOWN ON ONE AND NOT THE OTHER BEING FURNISHED AND INSTALLED AS THOUGH SHOWN AND CALLED OUT IN BOTH.
  - THE ENTIRE PLUMBING INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE MOST RECENTLY ADOPTED BUILDING CODES, MECHANICAL CODE, PLUMBING CODE, ELECTRICAL CODE, AND ALL OTHER APPLICABLE CITY, COUNTY, STATE, AND FEDERAL CODES AND REGULATIONS IN EFFECT.
  - THE ENTIRE PLUMBING INSTALLATION SHALL CONFORM TO ANY CODES, RULES, REGULATIONS AND REQUIREMENTS OF THE BUILDING OWNER.
  - PRIOR TO FABRICATION AND INSTALLATION OF ANY PLUMBING COMPONENT THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL PLUMBING WORK WITH ALL OTHER BUILDING TRADES, INCLUDING BUILDING TRADES HIRED DIRECTLY BY THE OWNER. WHERE CONFLICTS MAY OCCUR, THEY SHALL BE RESOLVED PRIOR TO INSTALLATION.
  - ALL PLUMBING INFORMATION IS NOT SHOWN ON THE PLUMBING DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL INFORMATION ON ALL OTHER CONSTRUCTION DOCUMENTS.
  - THE CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW AND USE, WHERE APPROPRIATE, ALL THE PLUMBING DETAILS SHOWN ON THE DRAWINGS. DETAILS MAY OR MAY NOT BE CALLED OUT ON THE DRAWINGS WITH SYMBOLS OR KEYS NOTES. ANY CHANGES TO THE PLUMBING REQUIRE TO INSTALL THE PLUMBING SYSTEM WITHOUT USING THE INCLUDED DETAILS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
  - ANY PART OF THE PLUMBING INSTALLATION THAT FAILS, IS UNFIT, OR BECOMES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
  - PROVIDE PROPER PROVISIONS FOR EXPANSION, CONTRACTION, OR MOVEMENT OF ALL PIPING.
  - PROVIDE LARGE ENOUGH PIPE SLEEVES THROUGH WALL OR FLOOR TO ALLOW FOR ANTICIPATED DIFFERENTIAL MOVEMENT.
  - ALL PIPING SHALL BE SUPPORT WITH CLEVIS HANGERS (MSS TYPE 1), PERFORATED METAL STRAPS OR PLASTIC STRAPPING (PLUMBER TAPE) SHALL NOT BE USED TO SUPPORT OR BRACE ANY PIPE.
  - PROVIDE PIPE HANGERS WITHIN 18-INCHES OF ALL CHANGES OF DIRECTION.
  - PROVIDE SWAY BRACING FOR ALL PIPING 4" AND LARGER AT ALL CHANGES IN DIRECTION GREATER THAN 45-DEGREES.
  - ALL STEEL CLEVIS HANGERS USED TO SUPPORT COPPER PIPING SHALL BE COPPER OR PLASTIC COATED.
  - COPPER PIPING SHALL NOT COME IN CONTACT WITH FIRE TREATED LUMBER. PROVIDE 1/2" THICK SLIP-ON CLOSED CELL INSULATION WHERE COPPER PIPING IS ADJACENT TO FIRE TREATED LUMBER. CLOSED CELL INSULATION SHALL EXTEND A MINIMUM OF 1-1/2" PAST LUMBER.
  - ALL EXPOSED PIPING SHALL BE INSTALLED IN A NEATLY ARRANGED MANNER PARALLEL TO THE BUILDING STRUCTURE.
  - ALL EXPOSED DOMESTIC WATER PIPE IN OCCUPIED SPACES SHALL BE POLISHED CHROME PLATED.
  - ALL EXPOSED DRAINAGE PIPING IN OCCUPIED SPACES INCLUDING TRAPS UNDER SINKS SHALL BE POLISHED CHROME PLATED.
  - DRAWINGS SHOW GENERAL ARRANGEMENT OF THE DRAIN WASTE AND VENT SYSTEM WITH THE REQUIRED CLEANOUTS. CONTRACTOR SHALL PROVIDE ALL ADDITIONAL CLEANOUTS AS REQUIRED BY THE PLUMBING CODE.
  - ALL SANITARY DRAINAGE SYSTEM PIPING 3" AND LARGER SHALL BE SLOPED IN DIRECTION OF FLOW AT A MINIMUM OF 1/8" PER FOOT.
  - ALL SANITARY DRAINAGE SYSTEM PIPING SMALLER THAN 3" SHALL BE SLOPED IN DIRECTION OF FLOW AT A MINIMUM OF 1/4" PER FOOT.
  - SLOPE VENT SYSTEM TOWARDS DRAINAGE SYSTEM.
  - SIMILAR EQUIPMENT SHALL BE OF THE SAME MANUFACTURER.
  - ALL EQUIPMENT SHALL PROVIDE THE SCHEDULED PERFORMANCE AT THE JOB SITE ELEVATION.
  - FIXTURE AND EQUIPMENT MODEL NUMBERS SHOWN IN PLUMBING FIXTURE SCHEDULE AND PLUMBING EQUIPMENT SCHEDULE ARE SHOWN TO ESTABLISH THE TYPE OF PRODUCT THAT SHALL BE USED. THE SELECTED PRODUCT SHALL MEET THE SCHEDULED PERFORMANCE DATA SHOWN ON THE SCHEDULE EVEN IF A DIFFERENT MODEL IS SUPPLIED THAT IS DIFFERENT THAN THAT SCHEDULED.
  - ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE ALL NECESSARY FITTINGS, TRANSITIONS, VALVES AND OTHER DEVICES AND ACCESSORIES REQUIRED FOR A COMPLETE, WORKABLE INSTALLATION.
  - SEE "PLUMBING FIXTURE SCHEDULE" FOR INDIVIDUAL TRAPS, WASTE, VENT, AND DOMESTIC WATER PIPING FOR INDIVIDUAL FIXTURES.
  - ALL PLUMBING EQUIPMENT SHALL BE LISTED AND LABELED BY AN APPROVED TESTING AGENCY.
  - FIXTURES, EQUIPMENT AND PIPING INSTALLATION SHALL MEET NSF STANDARDS.

PLUMBING SHEET INDEX	
P-001	PLUMBING COVER SHEET
P-101	LEVEL 1 PLUMBING PLAN
P-501	PLUMBING DETAILS & SCHEDULES

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KCC STORES  
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FARR WEST, UT  
84404

Mark: Date: Description

ISSUE: PERMIT SUBMITTAL  
DATE: 12 NOVEMBER 2024

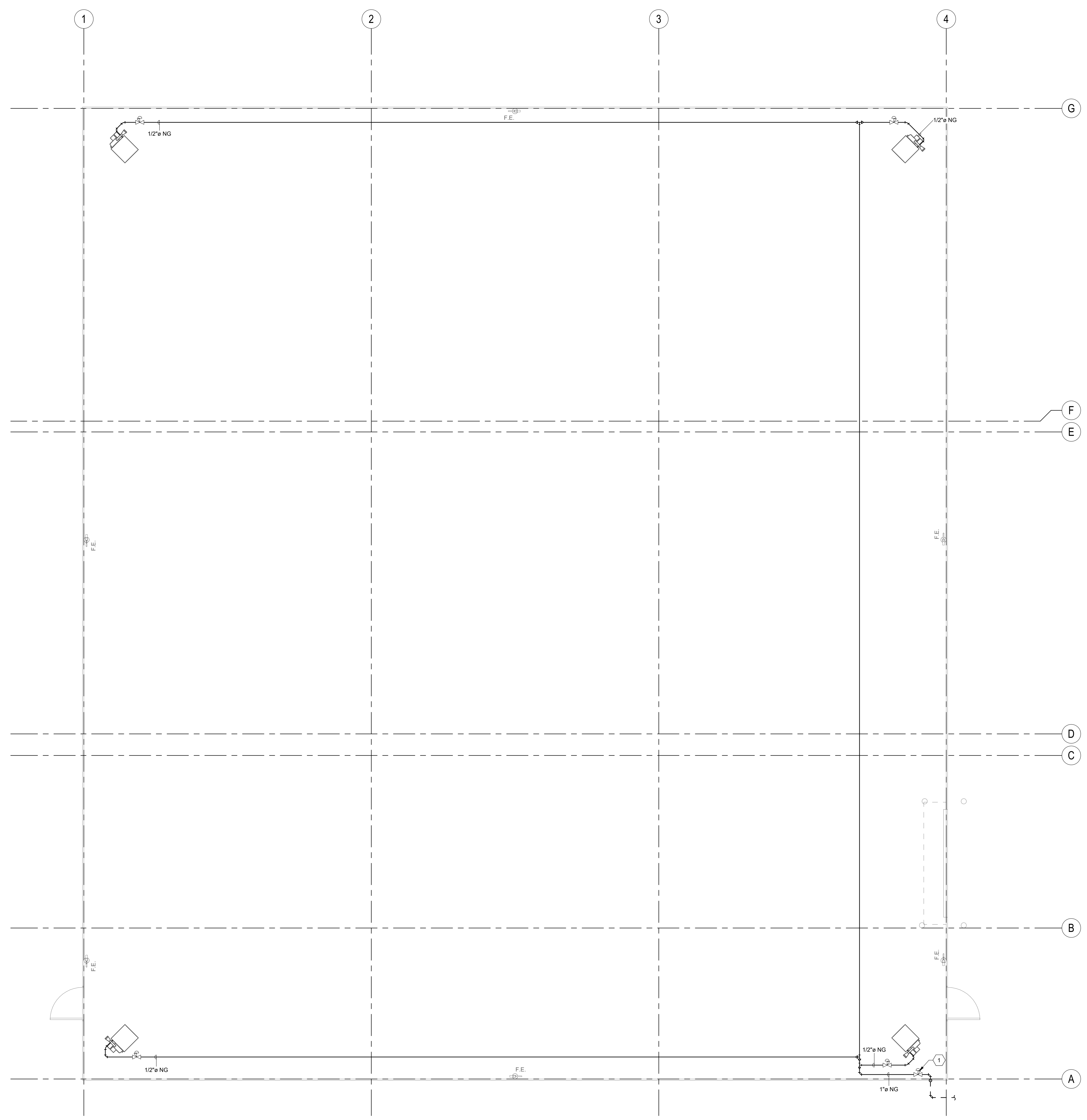
SPECTRUM PROJECT NO: 244022  
DRAWN BY: DTS  
CHECKED BY: AJB  
DESIGNED BY: AJB  
RECORD DRAWING DATE:

SIGNATURE:  
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SHEET TITLE  
PLUMBING COVER  
SHEET

P-001

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D  
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### PLUMBING GENERAL NOTES

1. THE CONTRACTOR SHALL CLOSELY COORDINATE MECHANICAL AND PLUMBING WITH ELECTRICAL, ARCHITECTURAL, AND BUILDING STRUCTURE.
2. DISSIMILAR METAL PIPING CONNECTIONS SHALL HAVE DIELECTRIC ISOLATORS.
3. ALL NATURAL GAS PIPING 2-1/2" AND OVER OR 5 PSI OR GREATER TO BE WELDED.
4. PROVIDE A MARINE TOPSIDE GREY PAINT ON ALL NEW GAS PIPING.
5. THE CONTRACTOR SHALL FIELD VERIFY EXISTING FIELD CONDITIONS PRIOR TO ORDERING OR FABRICATING. ADDITIONAL COST WILL NOT BE ALLOWED FOR CONTRACTOR'S FAILURE TO BECOME FAMILIAR WITH EXISTING SITE CONDITIONS.
6. PIPING SHALL NOT BE SUPPORTED FROM THE ROOF DECK, JOIST BRIDGING OR OTHER PIPES. HANG PIPES FROM BEAMS, JOIST OR SUPPLEMENTARY STRUCTURAL MEMBERS. WHERE POSSIBLE INSTALL ALL PIPING WITHIN 12" FROM SUPPORTING STRUCTURE.
7. WHERE JURISDICTION REQUIRES, THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING SEISMIC RESTRAINT. PROVIDE DESIGN DRAWINGS TO AUTHORITY HAVING JURISDICTION AND MECHANICAL ENGINEER FOR REVIEW.
8. PLUMBING PIPING SCHEDULE:
  - A. NATURAL GAS PIPING 2" AND SMALLER = SCHEDULE 40 BLACK STEEL PIPE - THREADED
  - B. NATURAL GAS PIPING 2-1/2" AND LARGER = SCHEDULE 40 BLACK STEEL PIPE - WELDED
  - C. NATURAL GAS PIPING BELOW GRADE = POLYETHYLENE PIPE - FUSION WELDED

### SHEET KEYNOTES

- 1 GAS LINE TO CIVIL. PROVIDE 2 PSI REGULATOR.

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SPECTRUM PROJECT NO:	244022
DRAWN BY:	DTS
CHECKED BY:	AJB
DESIGNED BY:	AJB
RECORD DRAWING DATE:	

SIGNATURE:  
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 SHEET TITLE

LEVEL 1 PLUMBING PLAN

P-101

**A1** LEVEL 1 PLUMBING PLAN  
 SCALE: 1/4" = 1'-0"

1 2 3 4 5 6

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E

D

C

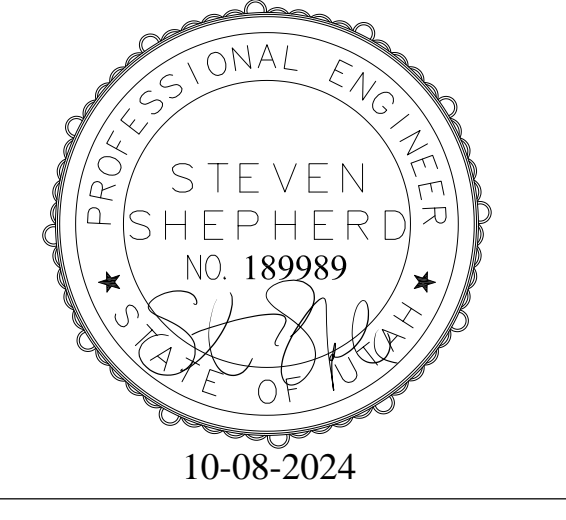
B

A

GAS PRESSURE REGULATOR SCHEDULE						
ACCEPTABLE MANUFACTURERS:				REMARKS:		
PIETRO FIORENTINI MAXITROL				(1) 2.0 PSIG INLET PRESSURE, 880 BTU PER C.F. (2) 4 OZ (7" W.C.) OUTLET PRESSURE (3) DIE CAST ALUMINUM BODY, NITRILE DIAPHRAGM (4) NPT THREADED INLET & OUTLET (5) BALL CHECK AUTOMATIC VENT LIMITING DEVICE		
SYMBOL	LOCATION	MANUFACTURER	MODEL NUMBER	REGULATOR SIZE (INCHES)	CAPACITY (CFH)	NOTES
GPR	INDOOR / OUTDOOR	PF REGULATOR	F30051	1/2	928	ALL
			F30052	3/4	1155	
			F30053	1	1501	
			F3013	1-1/4	7894	

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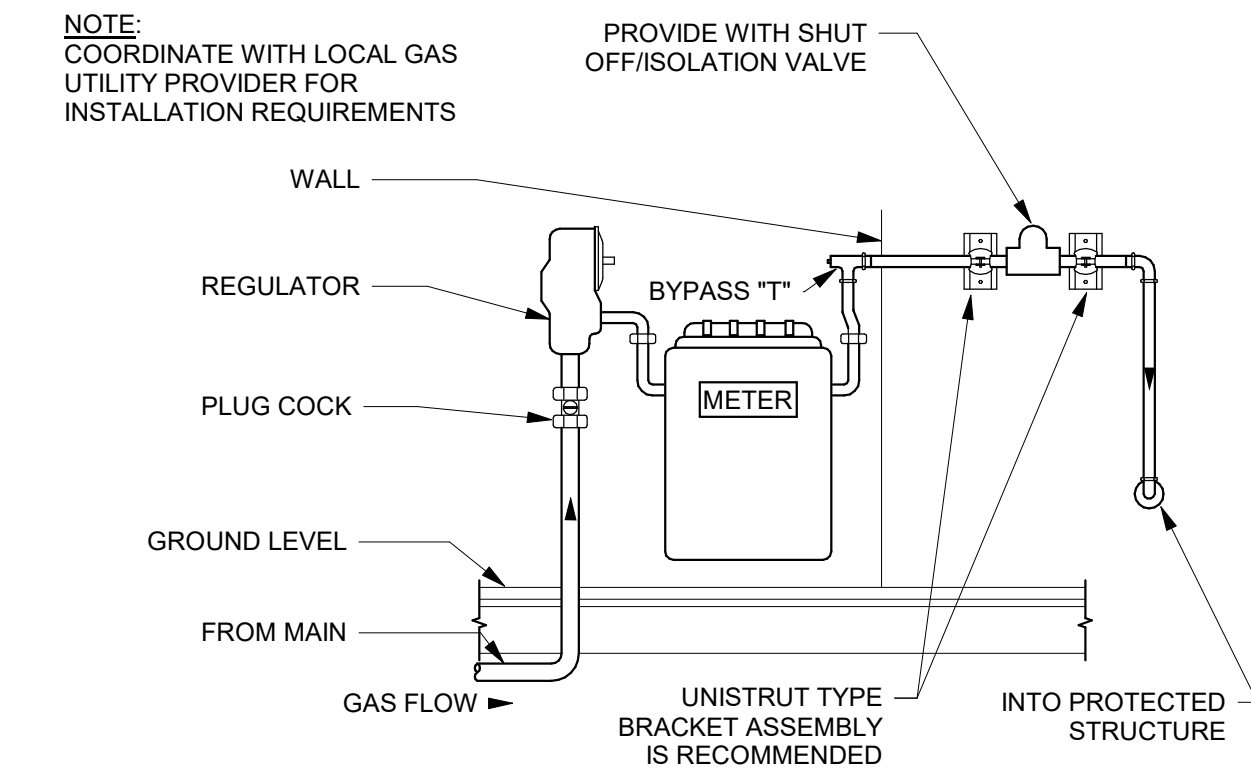
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DATE:	12 NOVEMBER 2024	

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 CHECKED BY: AJB  
 DESIGNED BY: AJB  
 RECORD DRAWING DATE:

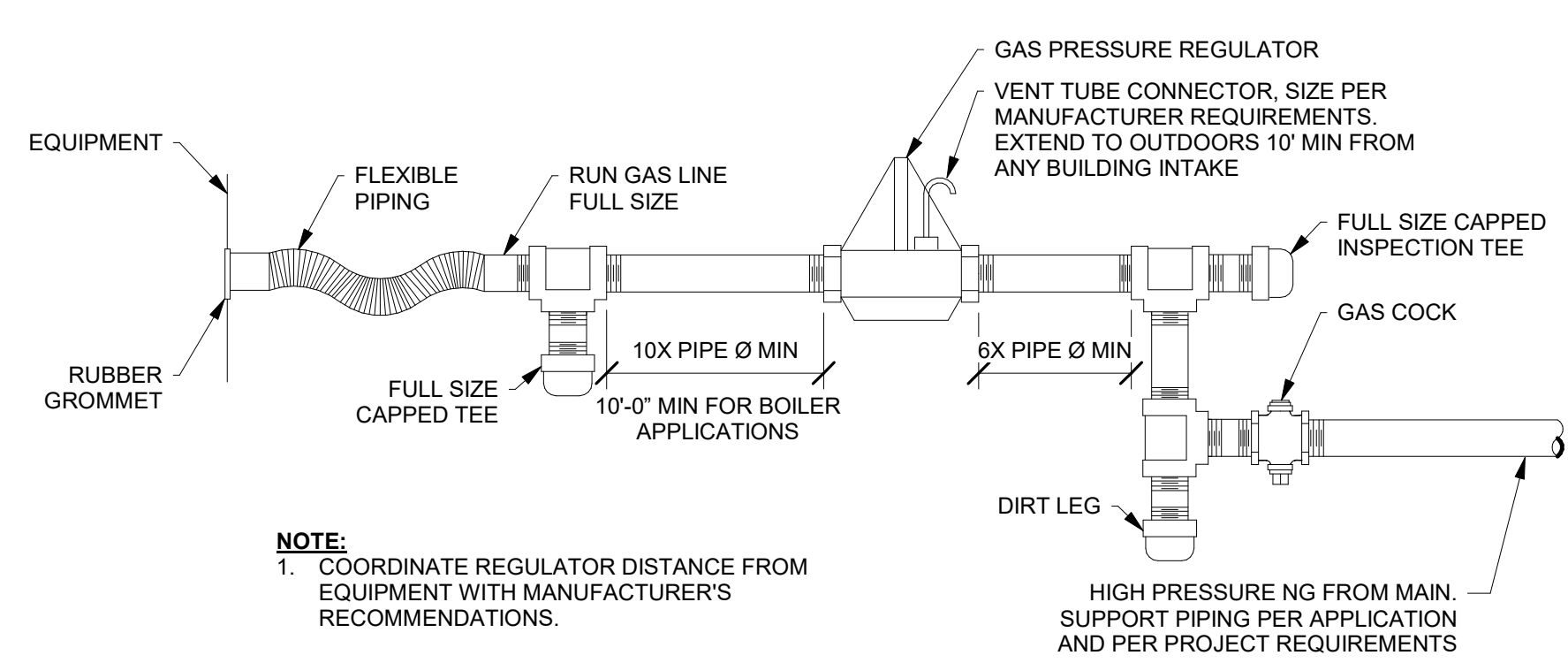
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**PLUMBING DETAILS & SCHEDULES**

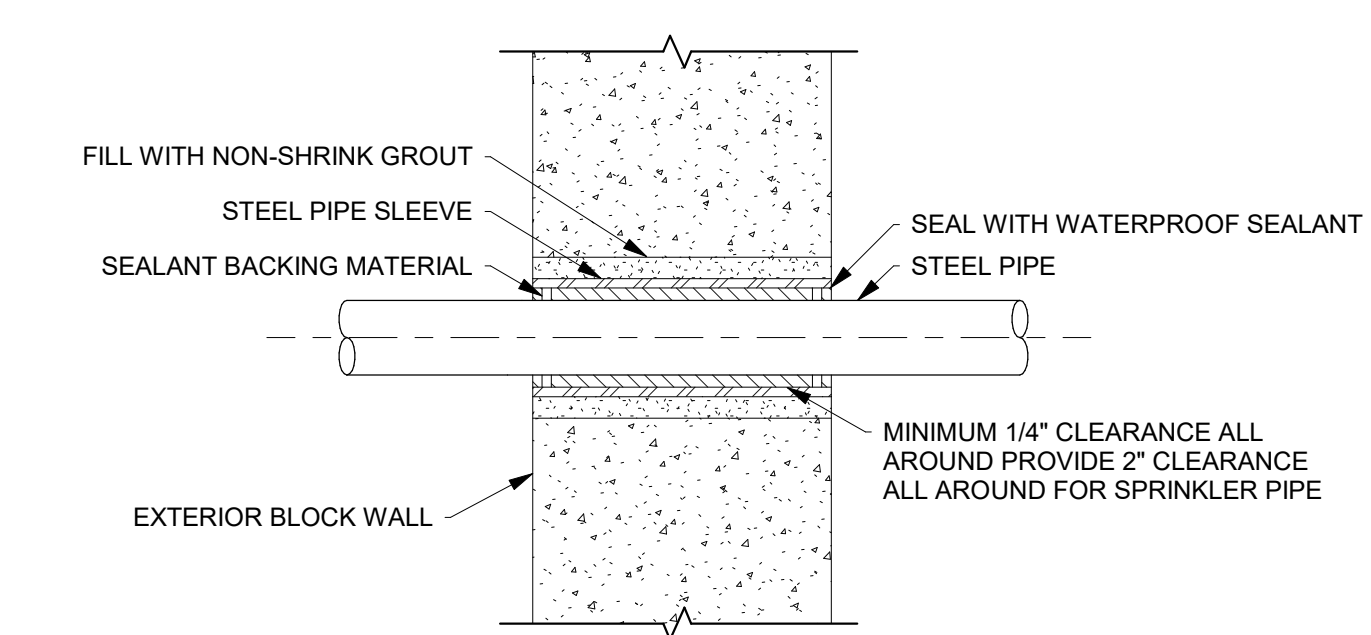
**P-501**



**A3 GAS METER DETAIL**  
 SCALE: 1/8" = 1'-0"



**A5 GAS PIPING REGULATOR**  
 SCALE: 1/8" = 1'-0"



**A7 PIPE SLEEVE THROUGH EXTERIOR WALL DETAIL**  
 SCALE: 1/8" = 1'-0"

1 2 3 4 5 6

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### PANELBOARD SCHEDULE

PANEL: L1 TYPE: Type 1 VOLTS: 120/208 Y PHASE: 3 WIRES: 4  
 MOUNTING: SURFACE LOCATION: WAREHOUSE 101 MAINS: MB  
 BUSSING: CU FED FROM: T1 AMP: 100 A

ITEM	AMPS	TYPE	POLE	WIRE SIZE	CIR. NO.	A	B	C	A	B	C	CIR. NO.	WIRE SIZE	POLE	TYPE	AMPS	ITEM
LIGHTING - HIGH BAY	20 A		1	12	1							2	12	1		20 A	RECEPTACLES
LIGHTING - HIGH BAY	20 A		1	12	3			1014				4	12	1		20 A	RECEPTACLES
OVERHEAD DOOR	20 A		1	12	5			1200				6	12	1		20 A	RECEPTACLES
UH-1 UNIT HEATER	20 A		1	12	7	480						8	12	1		20 A	RECEPTACLES
UH-2 UNIT HEATER	20 A		1	12	9		480					10	12	1		20 A	RECEPTACLES
UH-3 UNIT HEATER	20 A		1	12	11			480				12	10	1		25 A	EF-1 EXHAUST FAN
UH-4 UNIT HEATER	20 A		1	12	13	480						14	--	1	--	20 A	SPARE
SPACE ONLY	--	--	1	--	15	--	--	--	--	--	--	16	--	1	--	--	SPACE ONLY
SPACE ONLY	--	--	1	--	17	--	--	--	--	--	--	18	--	1	--	--	SPACE ONLY
SPACE ONLY	--	--	1	--	19	--	--	--	--	--	--	20	--	1	--	--	SPACE ONLY
SPACE ONLY	--	--	1	--	21	--	--	--	--	--	--	22	--	1	--	--	SPACE ONLY
SPACE ONLY	--	--	1	--	23	--	--	--	--	--	--	24	--	1	--	--	SPACE ONLY
SPACE ONLY	--	--	1	--	25	--	--	--	--	--	--	26	--	1	--	--	SPACE ONLY
SPACE ONLY	--	--	1	--	27	--	--	--	--	--	--	28	--	1	--	--	SPACE ONLY
SPACE ONLY	--	--	1	--	29	--	--	--	--	--	--	30	--	1	--	--	SPACE ONLY

FEED THRU LOAD: 0 VA  
 2694 2214 4001 TOTAL (VA)  
 23 A 18 A 34 A AMPS/PHASE  
 CONNECTED LOAD TOTAL: 8909 VA  
 AIC RATING: 10,000 AMPS RMS SYSM.

NOTES: CIRCUIT BREAKER TYPE:  
 -[BLANK]- THERMAL MAGNETIC CIRCUIT BREAKER  
 GF 5 mA GROUND FAULT CIRCUIT BREAKER  
 AF ARC-FAULT CIRCUIT BREAKER  
 CO COMBINATION AFCI/GFCI CIRCUIT BREAKER  
 EG 30 mA EQUIPMENT GROUND FAULT CIRCUIT BREAKER  
 ST SHUNT TRIP CIRCUIT BREAKER

### PANELBOARD SCHEDULE

PANEL: EL1 TYPE: Type 1 VOLTS: 120/208 Y PHASE: 3 WIRES: 4  
 MOUNTING: SURFACE LOCATION: WAREHOUSE 101 MAINS: MB  
 BUSSING: CU FED FROM: T2 AMP: 100 A

ITEM	AMPS	TYPE	POLE	WIRE SIZE	CIR. NO.	A	B	C	A	B	C	CIR. NO.	WIRE SIZE	POLE	TYPE	AMPS	ITEM
SPARE	20 A	--	2	--	1	0						2	12	1	--	20 A	EMERGENCY LIGHTING
SPARE	20 A	--	1	--	3			0				4	--	1	--	20 A	SPARE
SPARE	20 A	--	1	--	5			0				6	--	1	--	20 A	SPARE
SPARE	20 A	--	1	--	7	0						8	--	1	--	20 A	SPARE
SPARE	20 A	--	1	--	9			0				10	--	1	--	20 A	SPARE
SPARE	20 A	--	1	--	11			0				12	--	1	--	20 A	SPARE
SPARE	20 A	--	1	--	13	0						14	--	1	--	20 A	SPARE
SPACE ONLY	--	--	1	--	15	--	--	--	--	--	--	16	--	1	--	--	SPACE ONLY
SPACE ONLY	--	--	1	--	17	--	--	--	--	--	--	18	--	1	--	--	SPACE ONLY
SPACE ONLY	--	--	1	--	19	--	--	--	--	--	--	20	--	1	--	--	SPACE ONLY
SPACE ONLY	--	--	1	--	21	--	--	--	--	--	--	22	--	1	--	--	SPACE ONLY
SPACE ONLY	--	--	1	--	23	--	--	--	--	--	--	24	--	1	--	--	SPACE ONLY
SPACE ONLY	--	--	1	--	25	--	--	--	--	--	--	26	--	1	--	--	SPACE ONLY
SPACE ONLY	--	--	1	--	27	--	--	--	--	--	--	28	--	1	--	--	SPACE ONLY
SPACE ONLY	--	--	1	--	29	--	--	--	--	--	--	30	--	1	--	--	SPACE ONLY

FEED THRU LOAD: 0 VA  
 722 0 0 TOTAL (VA)  
 6 A 0 A 0 A AMPS/PHASE  
 CONNECTED LOAD TOTAL: 722 VA  
 AIC RATING: 10,000 AMPS RMS SYSM.

NOTES: CIRCUIT BREAKER TYPE:  
 -[BLANK]- THERMAL MAGNETIC CIRCUIT BREAKER  
 GF 5 mA GROUND FAULT CIRCUIT BREAKER  
 AF ARC-FAULT CIRCUIT BREAKER  
 CO COMBINATION AFCI/GFCI CIRCUIT BREAKER  
 EG 30 mA EQUIPMENT GROUND FAULT CIRCUIT BREAKER  
 ST SHUNT TRIP CIRCUIT BREAKER

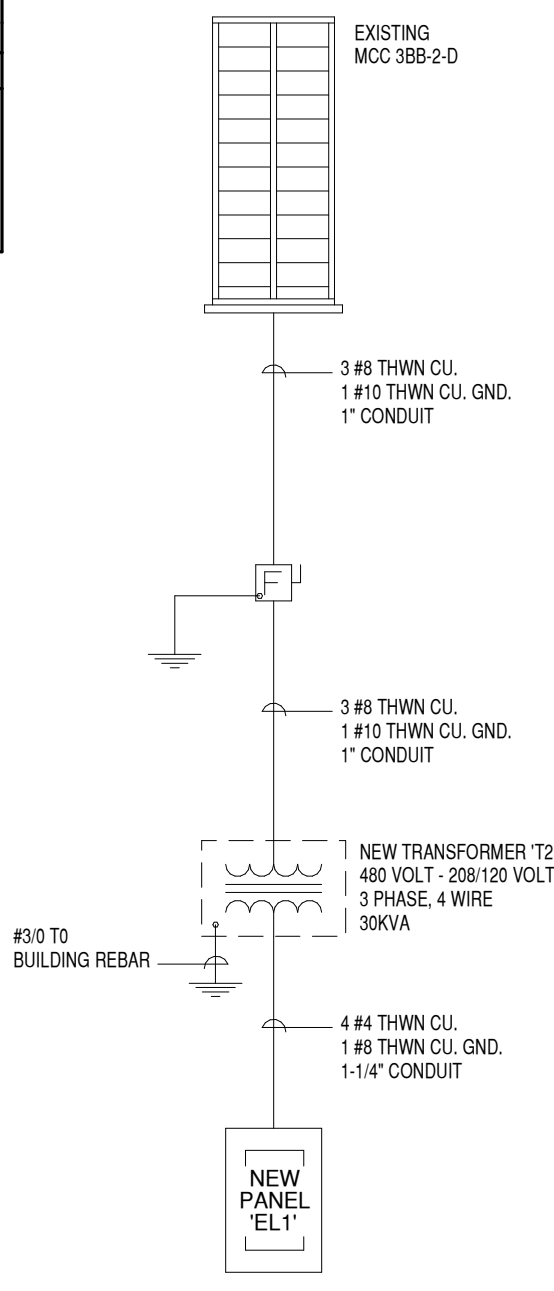
### SWITCHBOARD SCHEDULE

Switchboard: MDP LOCATION: WAREHOUSE 101 VOLTS: 480/277 Y AIC RATING: 14,000  
 SUPPLY FROM: DOOR-IN-DOOR PHASE: 3 MAINS TYPE: MCB  
 MOUNTING: WALL ENCLOSURE: L-LINE WIRES: 3 DOOR-IN-DOOR  
 BUSSING: AL 200% NEUTRAL N SPD: N

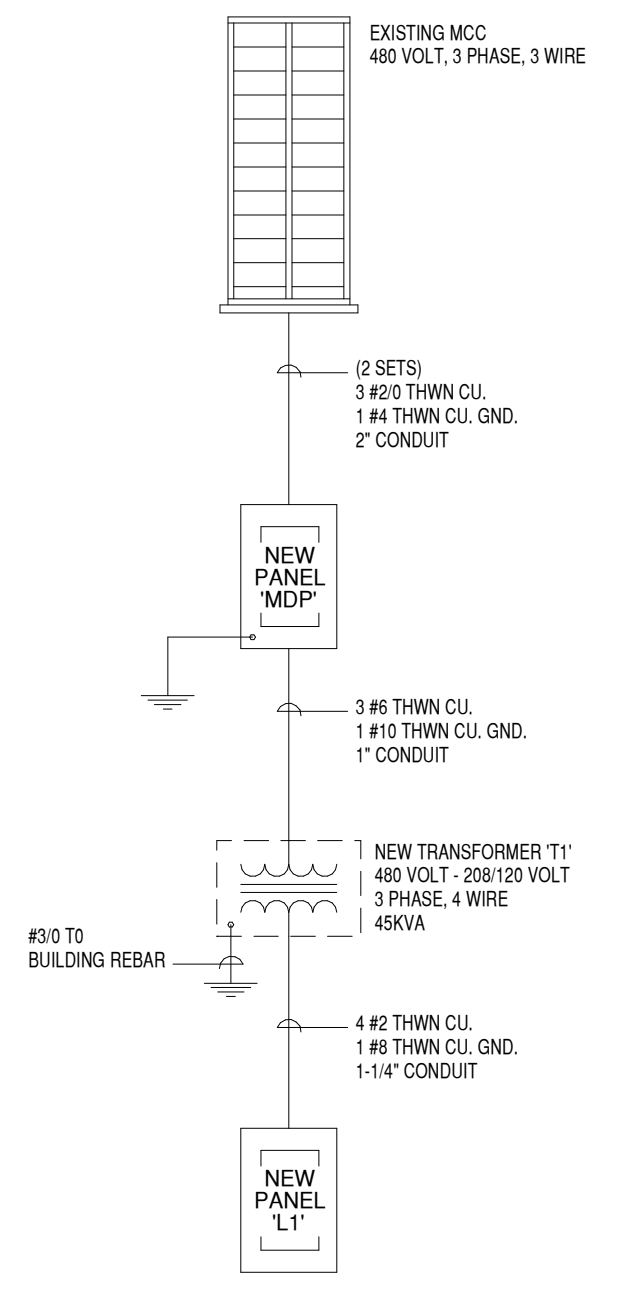
CKT	CIRCUIT DESCRIPTION	# OF POLES	AMP RATING	A	B	C	REMARKS
1	WELDING OUTLET	3	20 A	11080 VA	11080 VA	11080 VA	
2	TRANSFORMER T2	3	100 A	2694 VA	2214 VA	4001 VA	
3	SPARE	3	15 A	0 VA	0 VA	0 VA	
4	SPARE	3	20 A	0 VA	0 VA	0 VA	
5	SPARE	3	20 A	0 VA	0 VA	0 VA	
6	SPARE	3	100 A	0 VA	0 VA	0 VA	
7	SPARE	3	200 A	0 VA	0 VA	0 VA	
8	SPARE	3	200 A	0 VA	0 VA	0 VA	
9	SPARE	3	200 A	0 VA	0 VA	0 VA	
10	SPARE	3	200 A	0 VA	0 VA	0 VA	
11	SPARE	3	200 A	0 VA	0 VA	0 VA	
12	SPACE ONLY	3	--	--	--	--	
13	SPACE ONLY	3	--	--	--	--	
14	SPACE ONLY	3	--	--	--	--	
15	SPACE ONLY	3	--	--	--	--	
16	SPACE ONLY	3	--	--	--	--	
17	SPACE ONLY	3	--	--	--	--	
18	SPACE ONLY	3	--	--	--	--	

TOTAL LOAD (VA): 13774 VA 13294 VA 15081 VA  
 TOTAL LOAD (AMPS): 50 A 48 A 55 A  
 TOTAL CONN. LOAD: 42149 VA  
 TOTAL CURRENT (AVG): 51 A

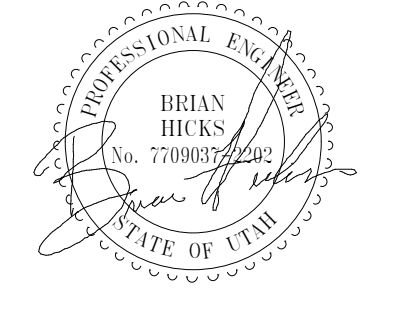
NOTES:



ONE-LINE DIAGRAM (EMERGENCY)  
NO SCALE



ONE-LINE DIAGRAM (NORMAL)  
NO SCALE



REVISIONS

MARK	DATE	DESCRIPTION
1	11.20.24	ISSUE FOR CONSTRUCTION
2	11.26.24	REVISION 1

DATE: 04 OCT 2024  
 PROJECT NO: EA24022TP  
 DRAWN BY: CALVIN  
 CHK'D BY: RICHARD

ONE-LINE DIAGRAM AND PANELBOARD SCHEDULES

