

UDOT BRIGHAM CITY TOW PLOW STORAGE BUILDING

1325 POWER PLANT ROAD
BRIGHAM CITY, UTAH 84302

CONSTRUCTION BID SET
07/17/2026



DFCM

STATE OF UTAH
DEPARTMENT OF ADMINISTRATIVE SERVICES
DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT

4315 South 2700 West, Floor 3 | Taylorsville, UT 84129 / www.dfcm.utah.gov

DFCM PROJECT NO. 26381900

CIVIL ENGINEER



1470 SOUTH 600 WEST / WOODS CROSS, UTAH 84087
801.298.2236 / www.entellus.com

STRUCTURAL ENGINEER



BHB STRUCTURAL

BHB CONSULTING ENGINEERS

2766 SOUTH MAIN STREET / SALT LAKE CITY, UTAH 84115
801.355.5656 / www.bhbengineers.com

MECHANICAL ENGINEER



WHW ENGINEERING INC

733 WEST 9000 SOUTH / SANDY, UTAH 84070
801.466.4021 / www.whw-engineering.com

ELECTRICAL ENGINEER:



**ROCKY MOUNTAIN
CONSULTING ENGINEERS**

2332 W.12600 S. / RIVERTON, UTAH 84065
801.566.0503 / www.rmceut.com

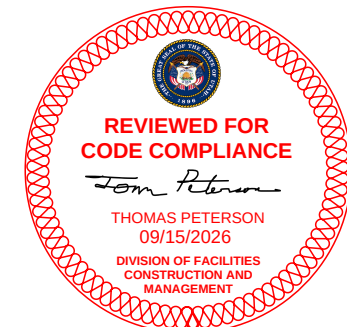


SPE ARCHITECTS
P.O. Box 517
Kaysville, Utah 84037
1.801.298.1368
info@spe-architect.com
www.spe-architect.com

PROFESSIONAL STAMP:



CODE OFFICIAL STAMP:



PROJECT NAME:

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TOW PLOW STORAGE BUILDING

1325 POWER PLANT ROAD
BRIGHAM CITY, UTAH 84302

REVISIONS:

NO.	DATE	DESCRIPTION
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ISSUED:

NO.	DATE	DESCRIPTION
01	07/17/26	CONSTRUCTION BID SET

OWNER PROJECT #:	26381900
SPE PROJECT #:	26-18
DRAWN BY:	JBE
CHECKED BY:	SPE
DESIGNED BY:	JBE

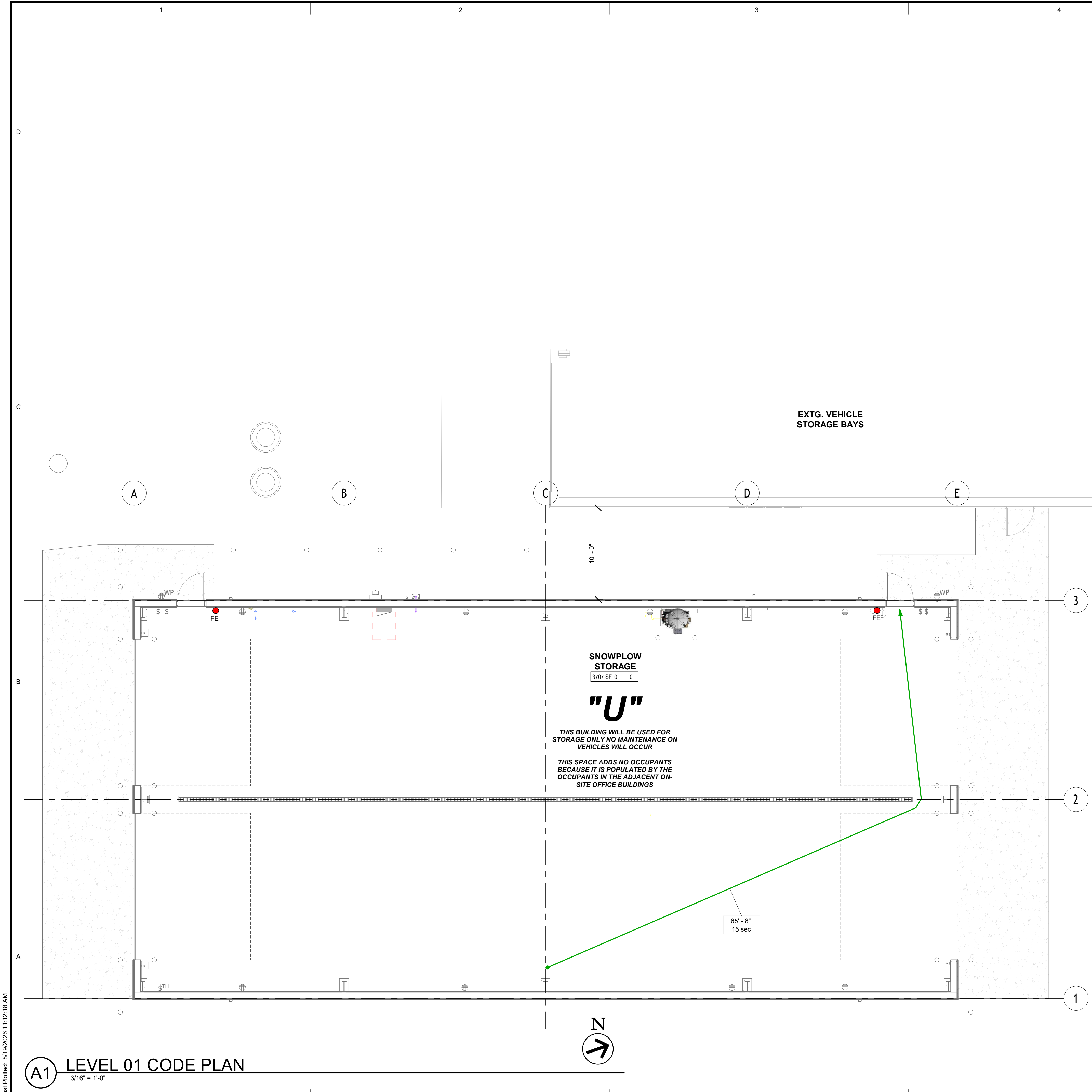
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SHEET TITLE:

TITLE SHEET

SHEET NUMBER:

GI-001



CODE ANALYSIS

APPLICABLE CODES			
	Year	Year	
International Building Code	2024 IBC	National Electrical Code	2023 NEC
International Mechanical Code	2024 IMC	Uniform Code for Building Conservation	N.A.
International Plumbing Code	2024 IPC	ADA Accessibility Guidelines	ICC A117.1-2009
International Fire Code	2024 IFC		
International Energy Conservation Code	2024 IECC		

A. Occupancy and Group: U

Change in Use: Yes No X Mixed Occupancy: Yes No X
Special Use and Occupancy (e.g. High Rise, Covered Mall):

B. Seismic Design Category: D Design Wind Speed: 102 mph

C. Type of Construction (circle one):
I II III IV V
A B A B HT A B

D. Fire Resistance Rating Requirements for the Exterior Walls based on the fire separation distance (in hours):
North: 0 South: 0 East: 0 West: 0

E. Mixed Occupancies: Nonseparated Uses: NO

F. Sprinklers:
Required: NO Provided: NO Type of Sprinkler System: N/A

G. Number of Stories: 01 Building Height: 18' AVERAGE HEIGHT

H. Actual Area per Floor (square feet): 3,926

I. Tabular Area: N.A.

J. Area Modifications: N.A.

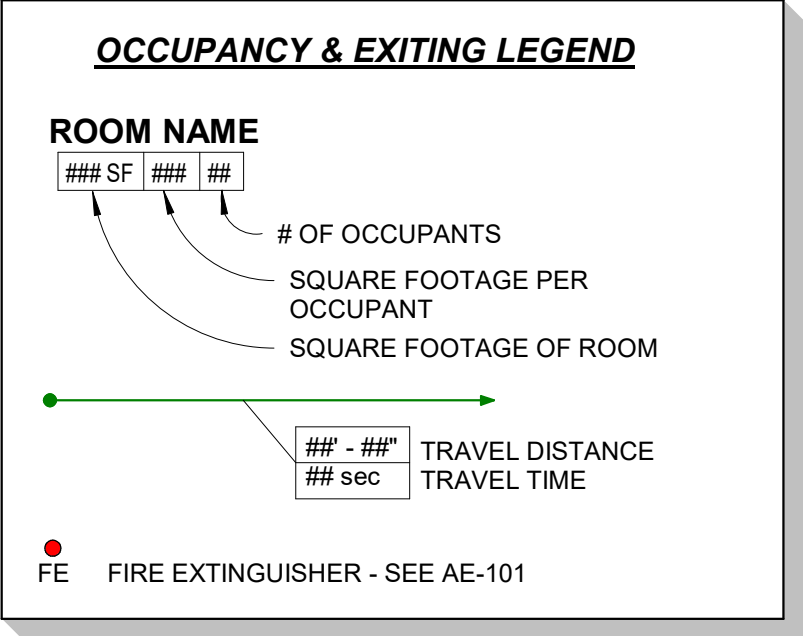
K. Fire Resistance Rating Requirements for Building Elements (hours).

Element	Hours	Assembly Listing	Element	Hours	Assembly Listing
Exterior Bearing Walls	<u>0</u>		Floors - Ceiling Floors	<u>0</u>	
Interior Bearing Walls	<u>0</u>		Roofs - Ceiling Roofs	<u>0</u>	
Exterior Non-Bearing Walls	<u>0</u>		Exterior Doors and Windows	<u>0</u>	
Structural Frame	<u>0</u>		Shaft Enclosures	<u>N.A.</u>	
Partitions - Permanent	<u>0</u>		Fire Walls	<u>N.A.</u>	
Fire Barriers	<u> </u>		Fire Partitions	<u>N.A.</u>	
			Smoke Partitions	<u>N.A.</u>	

L. Design Occupant Load: 0
Exit Width Required: N.A. Exit Width Provided: 72"

M. Minimum Number of Required Plumbing Facilities: RESTROOMS ARE IN THE ADJACENT BUILDING WHICH IS APPROXIMATELY 10' FROM THIS BUILDING
a) Water Closets - Required (m) 0 (f) 0 Provided (m) 0 (f) 0
b) Lavatories - Required (m) 0 (f) 0 Provided (m) 0 (f) 0
c) Bath Tubs or Showers: 0
d) Drinking Fountains: 0 Service Sinks: 0

FOOTNOTES:
1) In case of conflict with the U.S. Department of Justice Federal Registers Parts I through IX - ADA Guidelines and specific reference to the International Building Code Accessibility Chapters, the more restrictive requirement shall govern.
2) Additional Code Information shall be provided at the discretion of the Building Official for Complex Buildings. Including, but not limited to:
a) High Rise Requirements.
b) Atriums.
c) Performance Based Criteria.
d) Means or Egress Analysis.
e) Fire Assembly Locator Sheet.
f) Exterior and Interior Accessibility Route.
g) Fire Stopping, Including Tested Design Number.



ARCHITECT'S INFORMATION:

SPE ARCHITECTS
P.O. Box 517
Kaysville, Utah 84037
T 801.238.1368
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DESIGNED BY: JBE
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SHEET TITLE:
**CODE COMPLIANCE
INFORMATION**

SHEET NUMBER:
GI-003

Special Inspection, Material Testing & Structural Observation Items Required by Chapter 17 of the 2024 IRC

Indicate items requiring special inspection, structural testing, or structural observations by checking the appropriate box. All items not requiring inspection/testing should be removed from the form. For items requiring continuous inspection, a special inspector must be present onsite during the performance of that task. In most cases "periodic" inspections shall be performed prior to commencing the task, intermittently during the task, and at the completion of the task. The "Detailed Instructions & Frequencies" provides a description of the presumed requirements for tasks requiring "periodic" inspections. The design professional in responsible charge should revise the requirements as needed on a project-specific basis.

FABRICATORS (IBC 1704.2.2.1 & 1705.11)

Approved fabricator	Yes	No
Fabricator Name:		
Fabricator plant location:		
Required In-plant Inspections:	Steel Construction	Concrete Construction
	Cold-formed Construction	Other
	Wood Construction	Other

STRUCTURAL STEEL (IBC 1705.2.1 & 1705.13.1)

PRIOR TO WELDING (TABLE NS-4.1, AISC 360-22)			
Welder qualification records	Observe	Periodic	Verify welder qualification records and continuity records.
Welding procedures (WPS) and consumable certificates	Observe	Periodic	Verify type and grade of material.
Material identification	Observe	Periodic	Confirm a system is in place by which a welder who has welded a joint in member can be identified.
Welder identification	Observe	Periodic	Confirm the stamping of members subjected to fatigue is prohibited.
Fit-up groove welds	Observe	Periodic	Verify joint preparation, dimensions, cleanliness, and fit-up.
Fit-up of CIP welds to HSS, T, Y, and K joints without backing	Observe	Periodic	Verify access holes and fit-up.
Fit-up of fillet welds	Observe	Periodic	Verify dimensions, cleanliness, and fit-up.
Check welding equipment	Observe	Periodic	Check welding equipment.
DURING WELDING (TABLE NS-4.2, AISC 360-22)			
Control and handling of welding consumables	Observe	Periodic	Verify packaging and exposure control.
Cracked task welds	Observe	Periodic	Verify that welding does not occur over cracked task welds.
Environmental conditions	Observe	Periodic	Verify wind speed in windy limits as well as precipitation and temperature.

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WPS followed	Observe	Periodic	Verify items such as settings on welding equipment, wind speed, weathering materials, shielding gas type, preheat applied, and final cleaning, each pass in within profile limitations, and quality of each pass.
Welding techniques	Observe	Periodic	Verify inspection and final cleaning, each pass in within profile limitations, and quality of each pass.
Headed task welds	Observe	Periodic	Verify that cracks do not exist outside the area of the reinforcement.
AFTER WELDING (TABLE NS-4.3, AISC 360-22)			
Welds cleaned	Observe	Periodic	Verify that welds have been properly cleaned.
Size, length, and location of welds	Observe	Periodic	Verify that size, length, and location of welds.
Welds meet visual acceptance criteria	Observe	Periodic	Verify that welds meet crack prohibition, base metal fusion, profile, size, and location, and that all mechanical connections are installed per the approved construction documents.
Access cracks	Observe	Periodic	Verify that cracks do not exist outside the area of the reinforcement.
Core	Observe	Periodic	When welding of double plates, continuity plates or stiffeners has been performed in the field, visually inspect the web for cracks.
Weld access holes in rolled heavy shapes and built-up heavy shapes	Observe	Periodic	After rolled heavy shapes and built-up heavy shapes are welded, visually inspect the weld access hole for cracks.
Blinking and weld tabs removed	Observe	Periodic	If required on the approved construction documents, verify that back and weld tabs are removed.
Repair activities	Observe	Periodic	Verify that repair activities are performed in accordance with AISC 360 and AWS D1.1.
Documentation	Observe	Periodic	Document the acceptance or rejection of the welded joint or member.
Prohibited welds	Observe	Periodic	Verify that no prohibited welds have been added with the approval of the engineer of record.
NONDESTRUCTIVE TESTING SECTION NS-4.3, AISC 360-22			
CIP welds (Cat. II)	Observe	Periodic	UT testing shall be performed on 10% of CIP groove welds in butt, T- and corner joints subject to transversely applied tension loading in materials 5/16 inch thick or greater. (This may be performed on 100% of CIP welds in SDC D, E, F, or G.)
CIP welds (Risk Cat. III or IV)	Observe	Periodic	UT testing shall be performed on all CIP groove welds in butt, T- and corner joints subject to transversely applied tension loading in materials 5/16 inch thick or greater.
Welded joints subject to fatigue	Observe	Periodic	Welded joints subject to fatigue task A-3.1 of AISC 360 shall have ultrasonic or UT testing.
PRIOR TO BOLTING (TABLE NS-4.1, AISC 360-22)			
Certification of fasteners	Observe	Periodic	Verify that fasteners are certified and are available for use.
Fasteners marked	Observe	Periodic	Verify that fasteners have been marked in accordance with ASTM A308.
Proper fasteners for joint	Observe	Periodic	Verify grade, type, and bolt length if threads are excluded from the shear plane.
Proper bolting procedure	Observe	Periodic	Verify proper procedure is used for the joint detail.

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Connecting elements	Observe	Periodic	Verify appropriate laying out, installation and hole preparation. If specified, inspect connections.
Pre-installation verification	Observe	Periodic	Observe and document verification testing by installation personnel for fastener assemblies and methods used.
Proper storage	Observe	Periodic	Verify proper storage of bolts, nuts, washers, and other fastener components.
DURING BOLTING (TABLE NS-6.2, AISC 360-22)			
Fastener assemblies	Observe	Periodic	Verify that fastener assemblies are of suitable condition, proof in all holes, and washers are positioned as required.
Single tight prior to pretensioning	Observe	Periodic	Verify that joints are brought to single-tight condition prior to pretensioning operation.
Fastener component	Observe	Periodic	Verify that fastener component is not turned by wrench prevented from rotating.
Pretensioned fasteners	Observe	Periodic	Verify that fasteners are pretensioned in accordance with RCSC Specification, progressing systematically from the most rigid joint to the free ends.
AFTER BOLTING (TABLE NS-6.3, AISC 360-22)			
Documentation	Observe	Periodic	Document the acceptance or rejection of bolted connections.
OTHER STEEL INSPECTIONS SECTION NS-7 & NS-8, AISC 360-22, Table J1.1, AISC 341-22			
Galvanized structural steel	Observe	Periodic	Verify that exposed steel surfaces of galvanized structural steel do not include cracks prior to repainting the steel.
Structural steel details	Observe	Periodic	All fabricated steel or steel frames shall be inspected to verify compliance with the design and approved construction documents, such as bracing, stiffeners, member locations, and proper application of joint details at each connection.
Anchor rods and other embedments supporting structural steel	Observe	Periodic	Verify that no holes or unapproved attachments are made within the protected zone (see Table P9.1 of AISC 341-22).
Reinforced beam sections (RBS)	Observe	Periodic	Verify that no holes or unapproved attachments are made within the protected zone (see Table P9.1 of AISC 341-22).
Protected zones	Observe	Periodic	Verify that no holes or unapproved attachments are made within the protected zone (see Table P9.1 of AISC 341-22).
T-joints	Observe	Periodic	Verify that no holes or unapproved attachments are made within the protected zone (see Table P9.1 of AISC 341-22).
COMPOSITE CONSTRUCTION - STEEL & CONCRETE (TABLES P9.2, P9.3, AISC 341-22)			
True to concrete placement	Observe	Periodic	Verify type and grade of reinforcing steel, concrete equivalent if other than A706 bars, proper reinforcing steel size, spacing and orientation, but bar has not been

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Reinforcing steel placement	Observe	Periodic	re-locate; but is tied and supported; proper clearances are provided; and composite member has required size.
After concrete placement	Observe	Periodic	Verify appropriate mix design, limitations on water added to truck pump, and proper placement techniques are used and in limit specified.
STEEL ROOF AND FLOOR DECKS (IBC 1705.2.3 and SDI QAC-2022)			
Prior to metal deck attachment	Observe	Periodic	Verify that deck complies of materials (deck and all deck accessories) with approved construction documents, including profiles, material properties, and base metal thickness.
After metal deck placement	Observe	Periodic	Verify that deck complies of deck, and deck accessories, installation with the approved construction documents. Verify that mill certificates comply with approved construction documents.
Prior to welding	Observe	Periodic	Verify that welding procedures and certifications of consumables are available, material is properly identified, and welding equipment is appropriate.
During welding	Observe	Periodic	Verify that welds are qualified, proper handling of consumables is provided, that environmental conditions are acceptable and WPS is followed.
After welding	Observe	Periodic	Verify size, location and approval of welds. Verify that repair activities are acceptable.
Prior to mechanical fastening	Observe	Periodic	Verify that manufacturer's installation instructions and that fasteners are available. Verify proper fastener identification, and welding equipment is appropriate.
During mechanical fastening	Observe	Periodic	Verify that fasteners are positioned appropriately and installed per manufacturer's instructions.
After mechanical fastening	Observe	Periodic	Verify spacing and type of all fasteners. Verify that repair activities are acceptable.
OPEN-WEB STEEL JOISTS AND JOIST GIRDERS (IBC TABLE 1705.2.5, 1705.13.2, 1705.13.3, and 1705.13.5)			
End connections - welded or bolted	Observe	Periodic	Visual inspection to confirm that all connections conform to the approved construction documents.
Field - horizontal or diagonal	Observe	Periodic	Visual inspection to confirm that all connections conform to the approved construction documents.
COLD-FORMED STEEL CONSTRUCTION (IBC 1705.2.5, 1705.13.2, 1705.13.3, and 1705.13.5)			
Trusses spanning > 60 feet	Observe	Periodic	Verify that temporary and permanent true bracing is installed in accordance with approved true bracing. Performed by code inspection firm.
Wind-resisting systems or seismic-force-resisting systems	Observe	Periodic	Verify that temporary and permanent true bracing is installed in accordance with approved true bracing. Performed by code inspection firm.
Control and handling of welding consumables	Observe	Periodic	Verify that cold-weather construction is performed in accordance with Article 1.8 of the approved construction documents.
Cracked task welds	Observe	Periodic	Verify that cold-weather construction is performed in accordance with Article 1.8 of the approved construction documents.
Environmental conditions	Observe	Periodic	Verify that cold-weather construction is performed in accordance with Article 1.8 of the approved construction documents.

CONCRETE CONSTRUCTION (IBC 1705.3)

Reinforcing steel, including prestressing tendons	Observe	Periodic	Verify proper placement of concrete, including type of specified type, grade and size; that it is free of oil, dirt and moisture; that it is located and spaced properly; that the bars, links, ties, stirrups and supplemental reinforcement are placed correctly; that bar lengths, stagger and offsets are provided; and that all mechanical connections are installed per the approved construction documents.
Welding of reinforcing steel	Observe	Periodic	Verify that all welds are made in accordance with the approved construction documents, including type of specified type, grade and size; that it is free of oil, dirt and moisture; that it is located and spaced properly; that the bars, links, ties, stirrups and supplemental reinforcement are placed correctly; that bar lengths, stagger and offsets are provided; and that all mechanical connections are installed per the approved construction documents.
Cast-in bolts and embeds	Observe	Periodic	Verify that all bolts and embeds are installed in accordance with the approved construction documents, including type of specified type, grade and size; that it is free of oil, dirt and moisture; that it is located and spaced properly; that the bars, links, ties, stirrups and supplemental reinforcement are placed correctly; that bar lengths, stagger and offsets are provided; and that all mechanical connections are installed per the approved construction documents.
Post-installed anchors or devotes	Observe	Periodic	Verify that all post-installed anchors or devotes are installed in accordance with the approved construction documents, including type of specified type, grade and size; that it is free of oil, dirt and moisture; that it is located and spaced properly; that the bars, links, ties, stirrups and supplemental reinforcement are placed correctly; that bar lengths, stagger and offsets are provided; and that all mechanical connections are installed per the approved construction documents.
Use of required mix design	Observe	Periodic	Verify that all mix designs are made in accordance with the approved construction documents, including type of specified type, grade and size; that it is free of oil, dirt and moisture; that it is located and spaced properly; that the bars, links, ties, stirrups and supplemental reinforcement are placed correctly; that bar lengths, stagger and offsets are provided; and that all mechanical connections are installed per the approved construction documents.
Concrete sampling for strength tests, slump, air content, and temperature	Observe	Periodic	Verify that all concrete is made in accordance with the approved construction documents, including type of specified type, grade and size; that it is free of oil, dirt and moisture; that it is located and spaced properly; that the bars, links, ties, stirrups and supplemental reinforcement are placed correctly; that bar lengths, stagger and offsets are provided; and that all mechanical connections are installed per the approved construction documents.
Concrete & shotcrete placement	Observe	Periodic	Verify that all concrete is made in accordance with the approved construction documents, including type of specified type, grade and size; that it is free of oil, dirt and moisture; that it is located and spaced properly; that the bars, links, ties, stirrups and supplemental reinforcement are placed correctly; that bar lengths, stagger and offsets are provided; and that all mechanical connections are installed per the approved construction documents.
Curing temperature and techniques	Observe	Periodic	Verify that all concrete is made in accordance with the approved construction documents, including type of specified type, grade and size; that it is free of oil, dirt and moisture; that it is located and spaced properly; that the bars, links, ties, stirrups and supplemental reinforcement are placed correctly; that bar lengths, stagger and offsets are provided; and that all mechanical connections are installed per the approved construction documents.
WOOD CONSTRUCTION (IBC 1705.5, 1705.12.1, & 1705.13.2)			
High-load diaphragms	Observe	Periodic	Verify that all wood is made in accordance with the approved construction documents, including type of specified type, grade and size; that it is free of oil, dirt and moisture; that it is located and spaced properly; that the bars, links, ties, stirrups and supplemental reinforcement are placed correctly; that bar lengths, stagger and offsets are provided; and that all mechanical connections are installed per the approved construction documents.
Wood trusses spanning > 60 feet	Observe	Periodic	Verify that all wood is made in accordance with the approved construction documents, including type of specified type, grade and size; that it is free of oil, dirt and moisture; that it is located and spaced properly; that the bars, links, ties, stirrups and supplemental reinforcement are placed correctly; that bar lengths, stagger and offsets are provided; and that all mechanical connections are installed per the approved construction documents.
Structural wood	Observe	Periodic	Verify that all wood is made in accordance with the approved construction documents, including type of specified type, grade and size; that it is free of oil, dirt and moisture; that it is located and spaced properly; that the bars, links, ties, stirrups and supplemental reinforcement are placed correctly; that bar lengths, stagger and offsets are provided; and that all mechanical connections are installed per the approved construction documents.
MASS TIMBER CONSTRUCTION (IBC 1705.5.3, 1705.20)			
Pre-stressed concrete	Observe	Periodic	Verify that all pre-stressed concrete is made in accordance with the approved construction documents, including type of specified type, grade and size; that it is free of oil, dirt and moisture; that it is located and spaced properly; that the bars, links, ties, stirrups and supplemental reinforcement are placed correctly; that bar lengths, stagger and offsets are provided; and that all mechanical connections are installed per the approved construction documents.
Erection of precast concrete	Observe	Periodic	Verify that all precast concrete is made in accordance with the approved construction documents, including type of specified type, grade and size; that it is free of oil, dirt and moisture; that it is located and spaced properly; that the bars, links, ties, stirrups and supplemental reinforcement are placed correctly; that bar lengths, stagger and offsets are provided; and that all mechanical connections are installed per the approved construction documents.
Precast concrete diaphragm connections or reinforcement	Observe	Periodic	Verify that all precast concrete is made in accordance with the approved construction documents, including type of specified type, grade and size; that it is free of oil, dirt and moisture; that it is located and spaced properly; that the bars, links, ties, stirrups and supplemental reinforcement are placed correctly; that bar lengths, stagger and offsets are provided; and that all mechanical connections are installed per the approved construction documents.
Proper fasteners for joint	Observe	Periodic	Verify that all precast concrete is made in accordance with the approved construction documents, including type of specified type, grade and size; that it is free of oil, dirt and moisture; that it is located and spaced properly; that the bars, links, ties, stirrups and supplemental reinforcement are placed correctly; that bar lengths, stagger and offsets are provided; and that all mechanical connections are installed per the approved construction documents.
Proper bolting procedure	Observe	Periodic	Verify that all precast concrete is made in accordance with the approved construction documents, including type of specified type, grade and size; that it is free of oil, dirt and moisture; that it is located and spaced properly; that the bars, links, ties, stirrups and supplemental reinforcement are placed correctly; that bar lengths, stagger and offsets are provided; and that all mechanical connections are installed per the approved construction documents.

CONCRETE CONSTRUCTION (IBC 1705.3)

Reinforcing steel, including prestressing tendons	Observe	Periodic	Verify proper placement of concrete, including type of specified type, grade and size; that it is free of oil, dirt and moisture; that it is located and spaced properly; that the bars, links, ties, stirrups and supplemental reinforcement are placed correctly; that bar lengths, stagger and offsets are provided; and that all mechanical connections are installed per the approved construction documents.
Welding of reinforcing steel	Observe	Periodic	Verify that all welds are made in accordance with the approved construction documents, including type of specified type, grade and size; that it is free of oil, dirt and moisture; that it is located and spaced properly; that the bars, links, ties, stirrups and supplemental reinforcement are placed correctly; that bar lengths, stagger and offsets are provided; and that all mechanical connections are installed per the approved construction documents.
Cast-in bolts and embeds	Observe	Periodic	Verify that all bolts and embeds are installed in accordance with the approved construction documents, including type of specified type, grade and size; that it is free of oil, dirt and moisture; that it is located and spaced properly; that the bars, links, ties, stirrups and supplemental reinforcement are placed correctly; that bar lengths, stagger and offsets are provided; and that all mechanical connections are installed per the approved construction documents.
Post-installed anchors or devotes	Observe	Periodic	Verify that all post-installed anchors or devotes are installed in accordance with the approved construction documents, including type of specified type, grade and size; that it is free of oil, dirt and moisture; that it is located and spaced properly; that the bars, links, ties, stirrups and supplemental reinforcement are placed correctly; that bar lengths, stagger and offsets are provided; and that all mechanical connections are installed per the approved construction documents.
Use of required mix design	Observe	Periodic	Verify that all mix designs are made in accordance with the approved construction documents, including type of specified type, grade and size; that it is free of oil, dirt and moisture; that it is located and spaced properly; that the bars, links, ties, stirrups and supplemental reinforcement are placed correctly; that bar lengths, stagger and offsets are provided; and that all mechanical connections are installed per the approved construction documents.
Concrete sampling for strength tests, slump, air content, and temperature	Observe	Periodic	Verify that all concrete is made in accordance with the approved construction documents, including type of specified type, grade and size; that it is free of oil, dirt and moisture; that it is located and spaced properly; that the bars, links, ties, stirrups and supplemental reinforcement are placed correctly; that bar lengths, stagger and offsets are provided; and that all mechanical connections are installed per the approved construction documents.
Concrete & shotcrete placement	Observe	Periodic	Verify that all concrete is made in accordance with the approved construction documents, including type of specified type, grade and size; that it is free of oil, dirt and moisture; that it is located and spaced properly; that the bars, links, ties, stirrups and supplemental reinforcement are placed correctly; that bar lengths, stagger and offsets are provided; and that all mechanical connections are installed per the approved construction documents.
Curing temperature and techniques	Observe	Periodic	Verify that all concrete is made in accordance with the approved construction documents, including type of specified type, grade and size; that it is free of oil, dirt and moisture; that it is located and spaced properly; that the bars, links, ties, stirrups and supplemental reinforcement are placed correctly; that bar lengths, stagger and offsets are provided; and that all mechanical connections are installed per the approved construction documents.
WOOD CONSTRUCTION (IBC 1705.5, 1705.12.1, & 1705.13.2)			
High-load diaphragms	Observe	Periodic	Verify that all wood is made in accordance with the approved construction documents, including type of specified type, grade and size; that it is free of oil, dirt and moisture; that it is located and spaced properly; that the bars, links, ties, stirrups and supplemental reinforcement are placed correctly; that bar lengths, stagger and offsets are provided; and that all mechanical connections are installed per the approved construction documents.
Wood trusses spanning > 60 feet	Observe	Periodic	Verify that all wood is made in accordance with the approved construction documents, including type of specified type, grade and size; that it is free of oil, dirt and moisture; that it is located and spaced properly; that the bars, links, ties, stirrups and supplemental reinforcement are placed correctly; that bar lengths, stagger and offsets are provided; and that all mechanical connections are installed per the approved construction documents.
Structural wood	Observe	Periodic	Verify that all wood is made in accordance with the approved construction documents, including type of specified type, grade and size; that it is free of oil, dirt and moisture; that it is located and spaced properly; that the bars, links, ties, stirrups and supplemental reinforcement are placed correctly; that bar lengths, stagger and offsets are provided; and that all mechanical connections are installed per the approved construction documents.
MASS TIMBER CONSTRUCTION (IBC 1705.5.3, 1705.20)			
Pre-stressed concrete	Observe	Periodic	Verify that all pre-stressed concrete is made in accordance with the approved construction documents, including type of specified type, grade and size; that it is free of oil, dirt and moisture; that it is located and spaced properly; that the bars, links, ties, stirrups and supplemental reinforcement are placed correctly; that bar lengths, stagger and offsets are provided; and that all mechanical connections are installed per the approved construction documents.
Erection of precast concrete	Observe	Periodic	Verify that all precast concrete is made in accordance with the approved construction documents, including type of specified type, grade and size; that it is free of oil, dirt and moisture; that it is located and spaced properly; that the bars, links, ties, stirrups and supplemental reinforcement are placed correctly; that bar lengths, stagger and offsets are provided; and that all mechanical connections are installed per the approved construction documents.
Precast concrete diaphragm connections or reinforcement	Observe	Periodic	Verify that all precast concrete is made in accordance with the approved construction documents, including type of specified type, grade and size; that it is free of oil, dirt and moisture; that it is located and spaced properly; that the bars, links, ties, stirrups and supplemental reinforcement are placed correctly; that bar lengths, stagger and offsets are provided; and that all mechanical connections are installed per the approved construction documents.
Proper fasteners for joint	Observe	Periodic	Verify that all precast concrete is made in accordance with the approved construction documents, including type of specified type, grade and size; that it is free of oil, dirt and moisture; that it is located and spaced properly; that the bars, links, ties, stirrups and supplemental reinforcement are placed correctly; that bar lengths, stagger and offsets are provided; and that all mechanical connections are installed per the approved construction documents.
Proper bolting procedure	Observe	Periodic	Verify that all precast concrete is made in accordance with the approved construction documents, including type of specified type, grade and size; that it is free of oil, dirt and moisture; that it is located and spaced properly; that the bars, links, ties, stirrups and supplemental reinforcement are placed correctly; that bar lengths, stagger and offsets are provided; and that all mechanical connections are installed per the approved construction documents.

CONCRETE CONSTRUCTION (IBC 1705.3)

Strength verification	Observe	Periodic	Verify that adequate strength has been achieved prior to the removal of shores and forms of the structure of post-tensioned tendons.
Formwork	Observe	Periodic	Verify that the form is placed in accordance with the approved construction documents, including type of specified type, grade and size; that it is free of oil, dirt and moisture; that it is located and spaced properly; that the bars, links, ties, stirrups and supplemental reinforcement are placed correctly; that bar lengths, stagger and offsets are provided; and that all mechanical connections are installed per the approved construction documents.
METAL BUILDING SYSTEMS (IBC 1705.2.6)			
Installation of rubber-heel flange hangers and column hanger braces	Observe	Periodic	Verify that all metal building systems are made in accordance with the approved construction documents, including type of specified type, grade and size; that it is free of oil, dirt and moisture; that it is located and spaced properly; that the bars, links, ties, stirrups and supplemental reinforcement are placed correctly; that bar lengths, stagger and offsets are provided; and that all mechanical connections are installed per the approved construction documents.
Installation of purlins and girts	Observe	Periodic	Verify that all metal building systems are made in accordance with the approved construction documents, including type of specified type, grade and size; that it is free of oil, dirt and moisture; that it is located and spaced properly; that the bars, links, ties, stirrups and supplemental reinforcement are placed correctly; that bar lengths, stagger and offsets are provided; and that all mechanical connections are installed per the approved construction documents.
Installation of X-bracing	Observe	Periodic	Verify that all metal building systems are made in accordance with the approved construction documents, including type of specified type, grade and size; that it is free of oil, dirt and moisture; that it is located and spaced properly; that the bars, links, ties, stirrups and supplemental reinforcement are placed correctly; that bar lengths, stagger and offsets are provided; and that all mechanical connections are installed per the approved construction documents.
Installation of X-bracing	Observe	Periodic	Verify that all metal building systems are made in accordance with the approved construction documents, including type of specified type, grade and size; that it is free of oil, dirt and moisture; that it is located and spaced properly; that the bars, links, ties, stirrups and supplemental reinforcement are placed correctly; that bar lengths, stagger and offsets are provided; and that all mechanical connections are installed per the approved construction documents.
Cold-formed steel joists and joist girders	Observe	Periodic	Verify that all metal building systems are made in accordance with the approved construction documents, including type of specified type, grade and size; that it is free of oil, dirt and moisture; that it is located and spaced properly; that the bars, links, ties, stirrups and supplemental reinforcement are placed correctly; that bar lengths, stagger and offsets are provided; and that all mechanical connections are installed per the approved construction documents.
Open-web steel joists and joist girders	Observe	Periodic	Verify that all metal building systems are made in accordance with the approved construction documents, including type of specified type, grade and size; that it is free of oil, dirt and moisture; that it is located and spaced properly; that the bars, links, ties, stirrups and supplemental reinforcement are placed correctly; that bar lengths, stagger and offsets are provided; and that all mechanical connections are installed per the approved construction documents.
Cold-formed steel joists and joist girders	Observe	Periodic	Verify that all metal building systems are made in accordance with the approved construction documents, including type of specified type, grade and size; that it is free of oil, dirt and moisture; that it is located and spaced properly; that the bars, links, ties, stirrups and supplemental reinforcement are placed correctly; that bar lengths, stagger and offsets are provided; and that all mechanical connections are installed per the approved construction documents.
Cold-formed steel joists and joist girders	Observe	Periodic	Verify that all metal building systems are made in accordance with the approved construction documents, including type of specified type, grade and size; that it is free of oil, dirt and moisture; that it is located and spaced properly; that the bars, links, ties, stirrups and supplemental reinforcement are placed correctly; that bar lengths, stagger and offsets are provided; and that all mechanical connections are installed per the approved construction documents.
MASSORY CONSTRUCTION (IBC 1705.4)			
Prior to construction (Table 3, TMS 602-22)	Observe	Periodic	Verify that materials conform to the approved construction documents, including type of specified type, grade and size; that it is free of oil, dirt and moisture; that it is located and spaced properly; that the bars, links, ties, stirrups and supplemental reinforcement are placed correctly; that bar lengths, stagger and offsets are provided; and that all mechanical connections are installed per the approved construction documents.
Review material certificates, mix design, test results and construction procedures	Observe	Periodic	Verify that materials conform to the approved construction documents, including type of specified type, grade and size; that it is free of oil, dirt and moisture; that it is located and spaced properly; that the bars, links, ties, stirrups and supplemental reinforcement are placed correctly; that bar lengths, stagger and offsets are provided; and that all mechanical connections are installed per the approved construction documents.
AS MASONRY CONSTRUCTION BEGINS (TABLE 4, TMS 602-22)			
Proportions of size-prepared mortar	Observe	Periodic	Verify that mortar is of the type and color specified in the construction documents, that it conforms to ASTM C 770 and that it is mixed in accordance with Article 2.6.4 of TMS 602-22.
Grade and size of prestressing tendons and anchors	Observe	Periodic	Verify that prestressing tendons comply with Article 2.6.4 of TMS 602-22 and that anchors, connectors, and end blocks comply with Article 2.6.11.
Reinforcement, connectors, and anchors	Observe	Periodic	Verify that reinforcement, connectors, and anchors are of the proper grade, type and size in accordance with Article 2.6.11.

MASSORY CONSTRUCTION (IBC 1705.4)

Strength verification	Observe	Periodic	Verify that adequate strength has been achieved prior to the removal of shores and forms of the structure of post-tensioned tendons.
Formwork	Observe	Periodic	Verify that the form is placed in accordance with the approved construction documents, including type of specified type, grade and size; that it is free of oil, dirt and moisture; that it is located and spaced properly; that the bars, links, ties, stirrups and supplemental reinforcement are placed correctly; that bar lengths, stagger and offsets are provided; and that all mechanical connections are installed per the approved construction documents.
METAL BUILDING SYSTEMS (IBC 1705.2.6)			
Installation of rubber-heel flange hangers and column hanger braces	Observe	Periodic	Verify that all metal building systems are made in accordance with the approved construction documents, including type of specified type, grade and size; that it is free of oil, dirt and moisture; that it is located and spaced properly; that the bars, links, ties, stirrups and supplemental reinforcement are placed correctly; that bar lengths, stagger and offsets are provided; and that all mechanical connections are installed per the approved construction documents.
Installation of purlins and girts	Observe	Periodic	Verify that all metal building systems are made in accordance with the approved construction documents, including type of specified type, grade and size; that it is free of oil, dirt and moisture; that it is located and spaced properly; that the bars, links, ties, stirrups and supplemental reinforcement are placed correctly; that bar lengths, stagger and offsets are provided; and that all mechanical connections are installed per the approved construction documents.
Installation of X-bracing	Observe	Periodic	Verify that all metal building systems are made in accordance with the approved construction documents, including type of specified type, grade and size; that it is free of oil, dirt and moisture; that it is located and spaced properly; that the bars, links, ties, stirrups and supplemental reinforcement are placed correctly; that bar lengths, stagger and offsets are provided; and that all mechanical connections are installed per the approved construction documents.
Installation of X-bracing	Observe	Periodic	Verify that all metal building systems are made in accordance with the approved construction documents, including type of specified type, grade and size; that it is free of oil, dirt and moisture; that it is located and spaced properly; that the bars, links, ties, stirrups and supplemental reinforcement are placed correctly; that bar lengths, stagger and offsets are provided; and that all mechanical connections are installed per the approved construction documents.
Cold-formed steel joists and joist girders	Observe	Periodic	Verify that all metal building systems are made in accordance with the approved construction documents, including type of specified type, grade and size; that it is free of oil, dirt and moisture; that it is located and spaced properly; that the bars, links, ties, stirrups and supplemental reinforcement are placed

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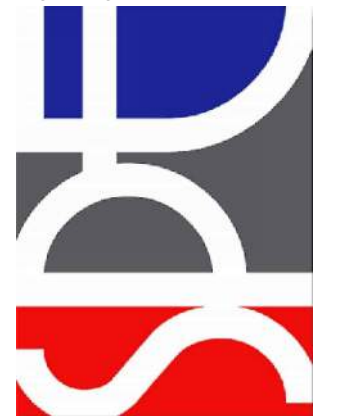
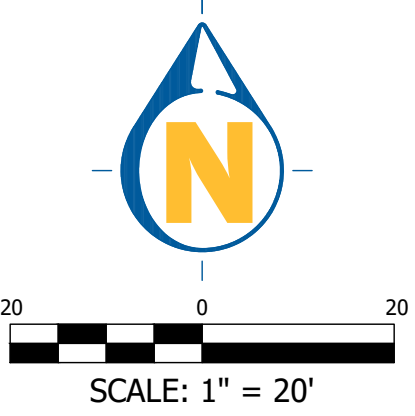
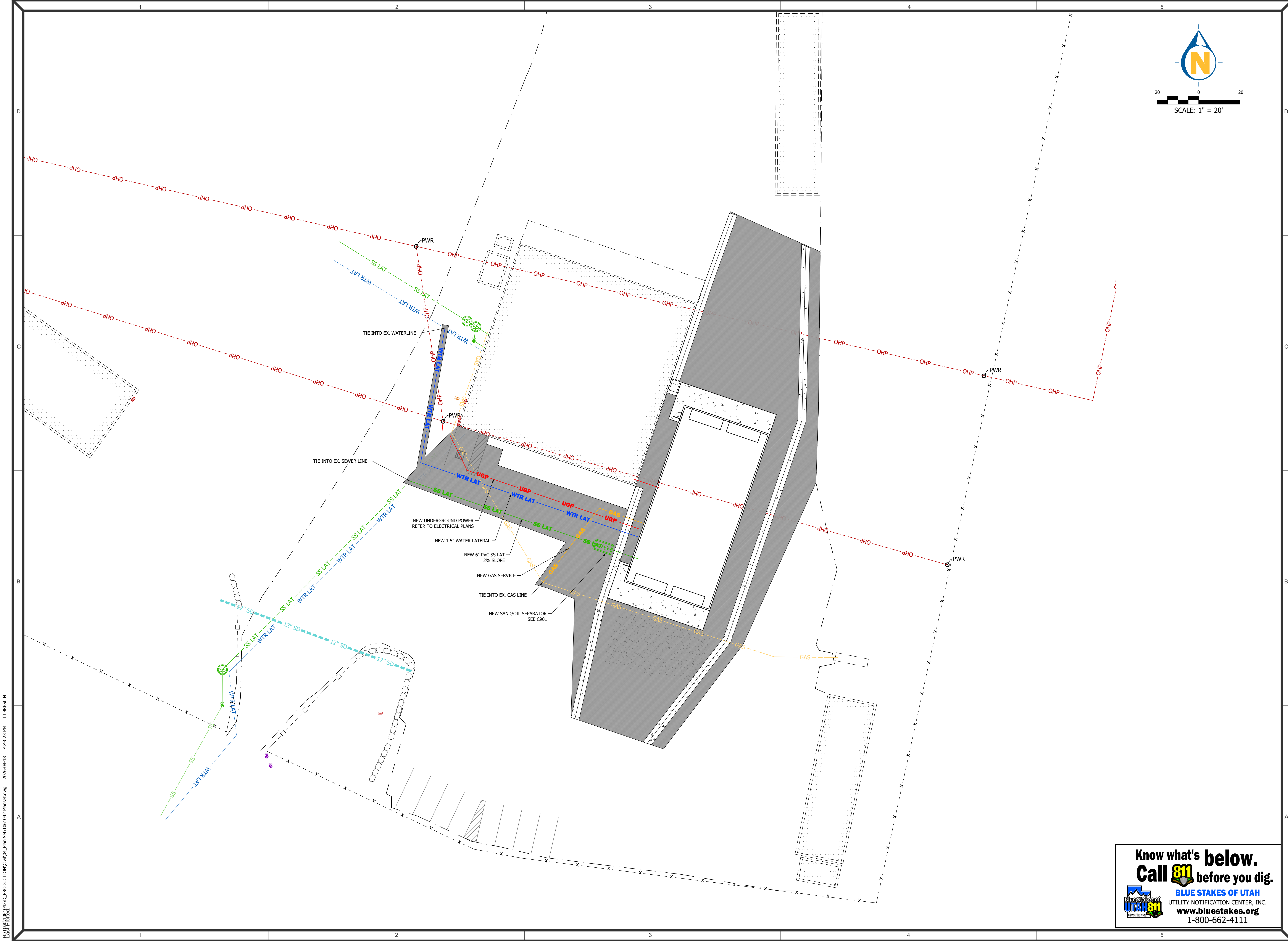
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DEMO PLAN

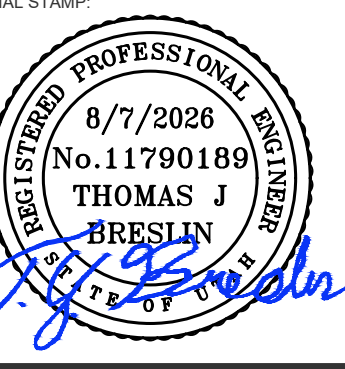
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C300

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SPE ARCHITECTS
P.O. Box 517
Kaysville, Utah 84037
t. 801.298.1368
info@spe-architect.com
www.spe-architect.com



UDOT BRIGHAM CITY
TOW PLOW STORAGE BUILDING

1325 POWER PLANT ROAD
BRIGHAM CITY, UTAH 84302

REVISIONS:		
NO.	DATE	DESCRIPTION

ISSUED:	
NO.	DESCRIPTION
01	07/17/26 CONSTRUCTION BID SET

OWNER PROJECT #:	26381900
SPE PROJECT #:	26-18
DRAWN BY:	CA
CHECKED BY:	TJB
DESIGNED BY:	CA

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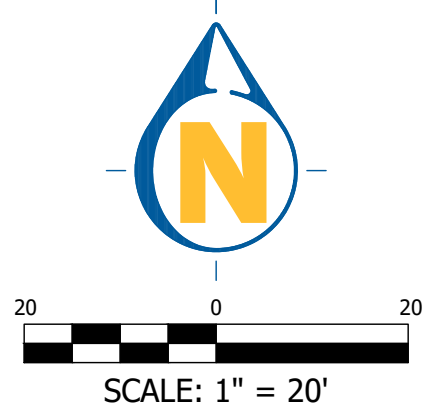
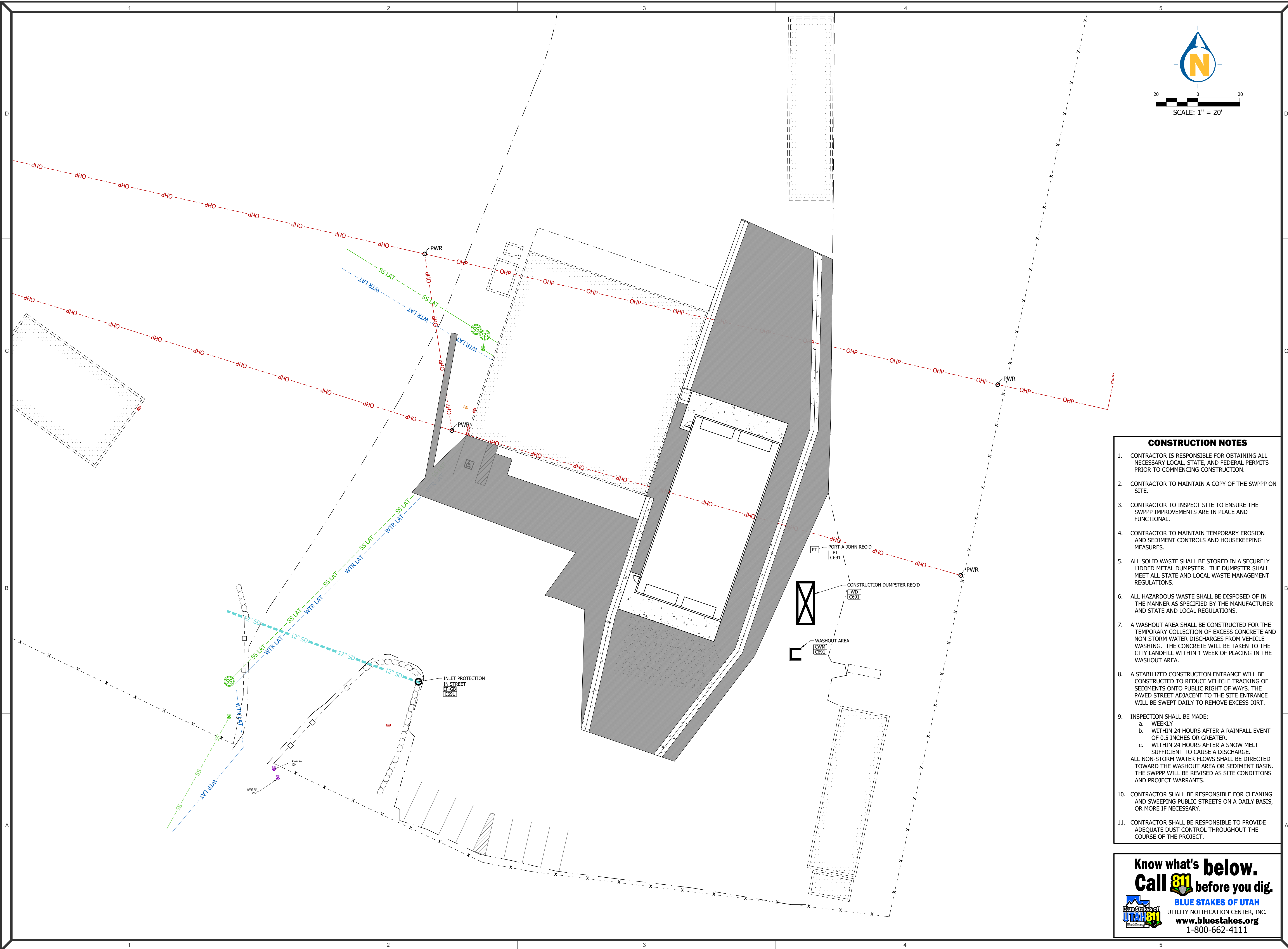
SHEET TITLE:
UTILITY PLAN

SHEET NUMBER:
C600

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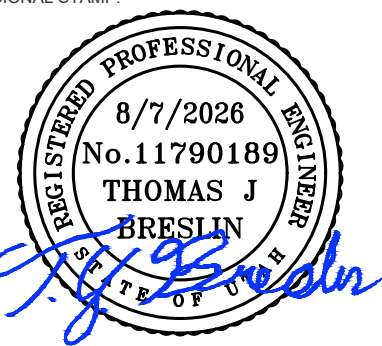
- CONSTRUCTION NOTES**
1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY LOCAL, STATE, AND FEDERAL PERMITS PRIOR TO COMMENCING CONSTRUCTION.
 2. CONTRACTOR TO MAINTAIN A COPY OF THE SWPPP ON SITE.
 3. CONTRACTOR TO INSPECT SITE TO ENSURE THE SWPPP IMPROVEMENTS ARE IN PLACE AND FUNCTIONAL.
 4. CONTRACTOR TO MAINTAIN TEMPORARY EROSION AND SEDIMENT CONTROLS AND HOUSEKEEPING MEASURES.
 5. ALL SOLID WASTE SHALL BE STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER SHALL MEET ALL STATE AND LOCAL WASTE MANAGEMENT REGULATIONS.
 6. ALL HAZARDOUS WASTE SHALL BE DISPOSED OF IN THE MANNER AS SPECIFIED BY THE MANUFACTURER AND STATE AND LOCAL REGULATIONS.
 7. A WASHOUT AREA SHALL BE CONSTRUCTED FOR THE TEMPORARY COLLECTION OF EXCESS CONCRETE AND NON-STORM WATER DISCHARGES FROM VEHICLE WASHING. THE CONCRETE WILL BE TAKEN TO THE CITY LANDFILL WITHIN 1 WEEK OF PLACING IN THE WASHOUT AREA.
 8. A STABILIZED CONSTRUCTION ENTRANCE WILL BE CONSTRUCTED TO REDUCE VEHICLE TRACKING OF SEDIMENTS ONTO PUBLIC RIGHT OF WAYS. THE PAVED STREET ADJACENT TO THE SITE ENTRANCE WILL BE SWEEPED DAILY TO REMOVE EXCESS DIRT.
 9. INSPECTION SHALL BE MADE:
 - a. WEEKLY
 - b. WITHIN 24 HOURS AFTER A RAINFALL EVENT OF 0.5 INCHES OR GREATER.
 - c. WITHIN 24 HOURS AFTER A SNOW MELT SUFFICIENT TO CAUSE A DISCHARGE.ALL NON-STORM WATER FLOWS SHALL BE DIRECTED TOWARD THE WASHOUT AREA OR SEDIMENT BASIN. THE SWPPP WILL BE REVISED AS SITE CONDITIONS AND PROJECT WARRANTS.
 10. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING AND SWEEPING PUBLIC STREETS ON A DAILY BASIS, OR MORE IF NECESSARY.
 11. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ADEQUATE DUST CONTROL THROUGHOUT THE COURSE OF THE PROJECT.

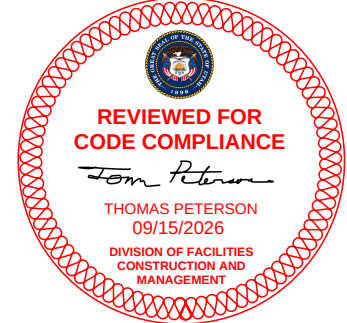
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ARCHITECT'S INFORMATION


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P.O. Box 517
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CODE OFFICIAL STAMP:


PROJECT NAME:
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TOW PLOW STORAGE BUILDING**

1325 POWER PLANT ROAD
BRIGHAM CITY, UTAH 84302

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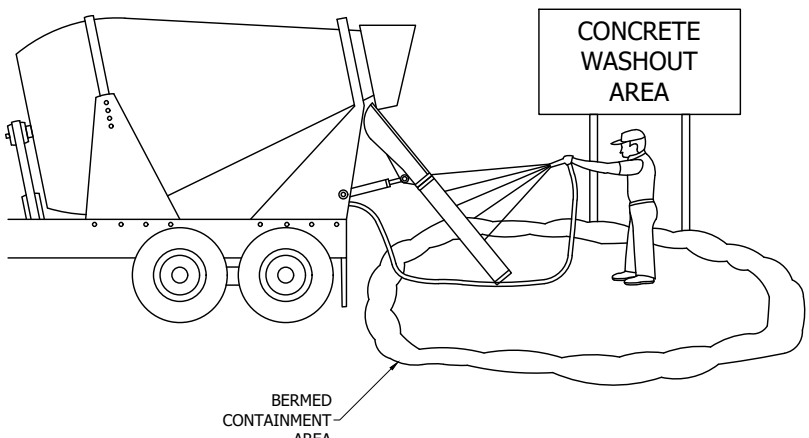
SHEET TITLE:
**EROSION
CONTROL
PLAN**

SHEET NUMBER:
C690

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CONCRETE WASTE MANAGEMENT

CWM-BERM



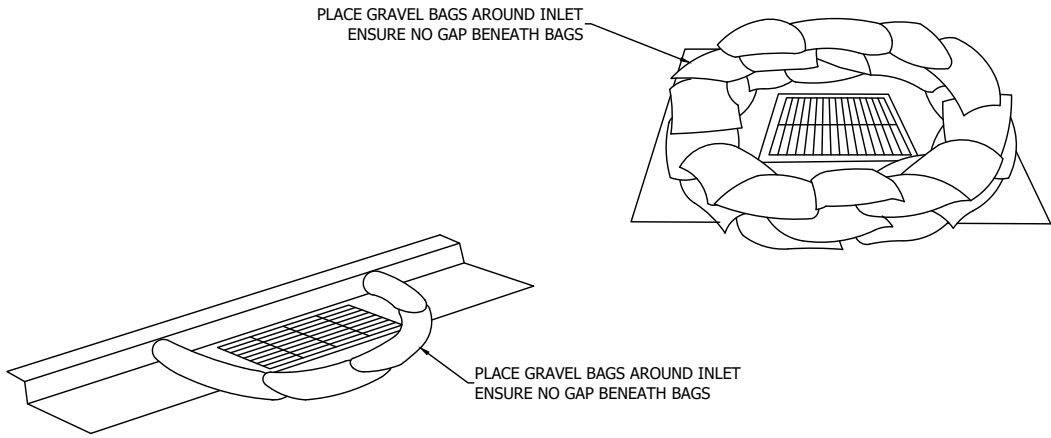
- DESCRIPTION**
Prevent or reduce the discharge of pollutants to storm water from concrete waste by conducting washout off-site, performing on-site washout in a designated area, and training employees and subcontractors.
- APPLICABILITY**
Applicable to sites where concrete will be placed.
- IMPLEMENTATION**
1. Store dry materials under cover, away from drainage areas
 2. Minimize excess mixing of fresh concrete, mortar or cement on site
 3. Do not wash out concrete trucks into storm drains, open ditches, streets, or streams
 4. Do not allow excess concrete to be dumped on-site, except in designated areas
 5. When washing concrete to remove fine particles and expose the aggregate, avoid creating runoff by draining the water within a bermed or level area (6" tall X 6' wide)
 6. Train employees and subcontractors in proper concrete waste management
- LIMITATIONS**
Off-site washout or concrete wastes may not always be possible
- MAINTENANCE**
1. Inspect subcontractors to ensure that concrete wastes are being properly managed.
 2. If using a temporary pit, dispose of hardened concrete on a regular basis.



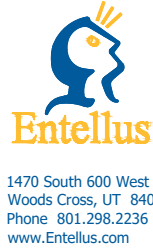
Adapted from Davis County Stormwater Coalition materials.

INLET PROTECTION - GRAVEL BAGS

IP-GB



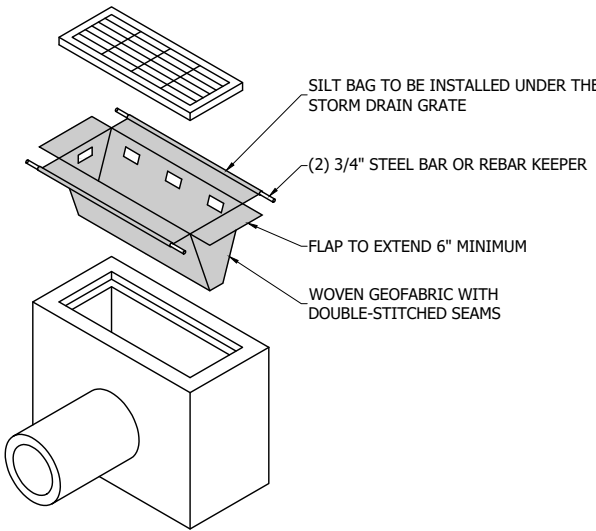
- DESCRIPTION**
Sediment barrier erected around storm drain inlet.
- APPLICABILITY**
Construct at storm drainage inlets located down-gradient of areas to be disturbed by construction.
- IMPLEMENTATION**
1. Provide up-gradient sediment controls, such as silt fence during construction of inlet
 2. When construction of curb and gutter and roadway is complete, install gravel filled bags around perimeter of inlet
 3. Fill to recommended levels to reduce spilling of bags
- LIMITATIONS**
1. Recommended maximum contributing drainage area of one acre.
 2. Requires shallow sloped adjacent to inlet.
- MAINTENANCE**
1. inspect inlet protection following storm event and at a minimum of once every 14 days.
 2. Remove accumulated sediment when it reaches half the height of the bag.
 3. Look for bypassing or undercutting and repair or realign as needed.
 4. Replace and clean up spilled gravel when bags split.



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INLET PROTECTION - SILT BAGS

IP-SB



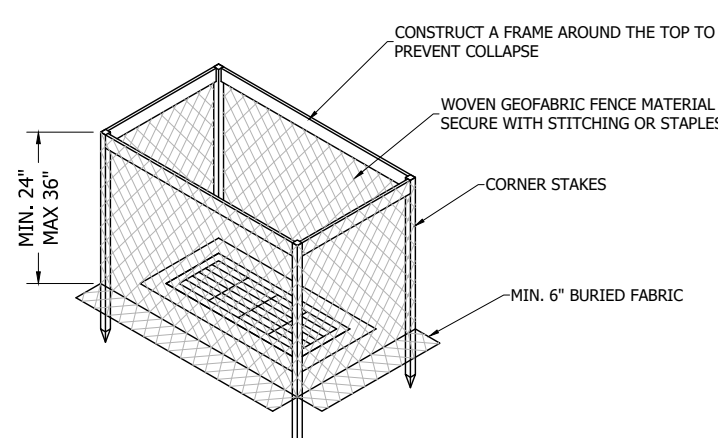
- DESCRIPTION**
Collect and trap sediment and debris entering catch basins from either grated or curb inlets. Insert is made of fabric and is placed in the drain inlet around the perimeter of the grate. Runoff passes through the bag before discharging into the drain outlet pipe. Overflow holes are usually provided to pass larger flows without causing a backwater at the grate. Certain manufactured products include polymers intended to increase pollutant removal effectiveness.
- APPLICABILITY**
Storm drain inlet boxes.
- IMPLEMENTATION**
1. Regular Maintenance is necessary
 2. Evaluation of the device chosen should be balanced with cost
 3. Hydraulic capacity controls effectiveness
 4. Most useful in small drainage areas (< 1 Acre)
 5. Ideal in combination with other BMP's
- LIMITATIONS**
1. Cost
 2. Maintenance required to prevent plugging and remain effective.
- MAINTENANCE**
Inspection after all storm events and as required between event.



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INLET PROTECTION - SILT FENCE

IP-SF



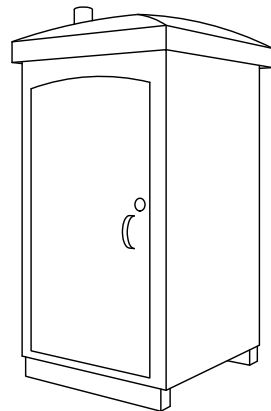
- DESCRIPTION**
Construct at storm drainage inlets located downgradient of areas to be disturbed by construction (for inlets in paved areas see other information sheets for inlet protection)
- APPLICABILITY**
Construct at storm drainage inlets located downgradient of areas to be disturbed by construction (for inlets in paved areas see other information sheets for inlet protection).
- IMPLEMENTATION**
1. Provide upgradient sediment controls, such as silt fence during construction of inlet.
 2. When construction of inlet is complete, erect straw bale barrier or silt fence surrounding perimeter of inlet. Follow instructions and guidelines on individual BMP information sheets for straw bale barrier and silt fence construction.
- LIMITATIONS**
1. Recommended maximum contributing drainage area of one acre.
 2. Limited to inlets located in open unpaved areas.
 3. Requires shallow slopes adjacent to inlet.
- MAINTENANCE**
1. Inspect inlet protection following storm event and at a minimum of once every two weeks.
 2. Remove accumulated sediment when it reaches 4" in depth.
 3. Repair or realign barrier/fence as needed.
 4. Look for bypassing or undercutting and recompact soil around barrier/fence as required.



Adapted from Davis County Stormwater Coalition materials.

PORTABLE TOILET

PT



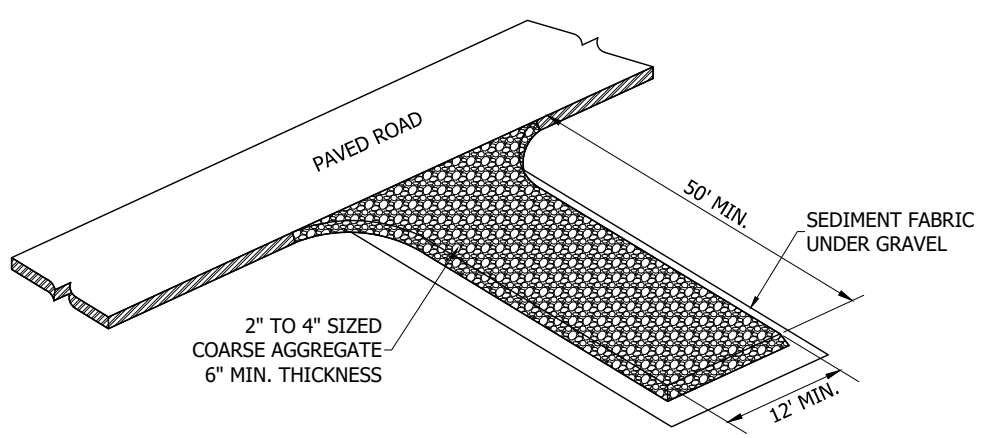
- DESCRIPTION**
Temporary on-site sanitary facilities for construction personnel.
- APPLICABILITY**
All sites with no permanent sanitary facilities or where permanent facility is too far from activities.
- IMPLEMENTATION**
1. Locate portable toilets in a convenient locations throughout the site
 2. Prepare level, gravel surface and provide clear access to the toilets for servicing and for on-site personnel
 3. Construct earth berm perimeter (see Earth Berm Barrier Sheet), control for spill / leak protection.
 4. Anchor the portable toilet to prevent tipping
- LIMITATIONS**
No limitations
- MAINTENANCE**
1. Portable toilets should be maintained in good working order by licensed service with daily observation for leak detection
 2. Regular waste collection should be arranged with licensed service
 3. All waste should be deposited in sanitary sewer system for treatment with appropriate agency approval



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STABILIZED CONSTRUCTION ENTRANCE

SCE



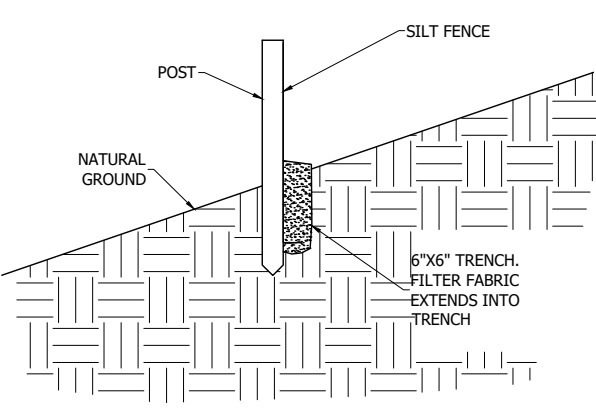
- DESCRIPTION**
A stabilized pad of crushed stone located where construction traffic enters or leaves the site from or to paved surface.
- APPLICABILITY**
At any point of ingress and egress at a construction site where adjacent traveled way is paved. Generally applies to sites over 2 acres unless special conditions exist.
- IMPLEMENTATION**
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, 3-6 inches in size, to a minimum depth of 8 inches
- 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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SILT FENCING

SF



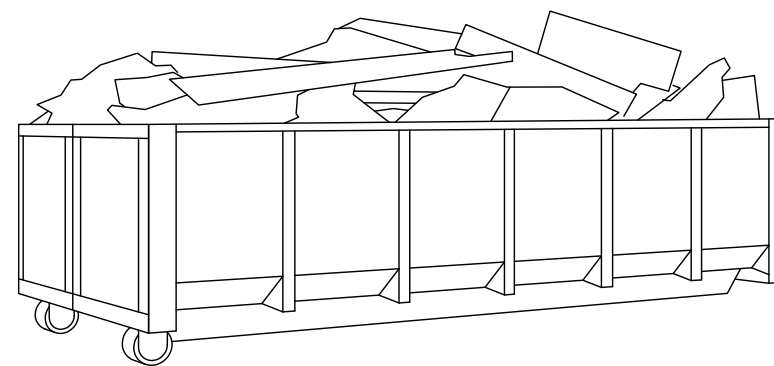
- DESCRIPTION**
A temporary sediment barrier consisting of entrenched filter fabric stretched across and secured to supporting posts.
- APPLICABILITY**
1. Perimeter control: place barrier at downgradient limits of disturbance.
 2. Sediment barrier: place barrier at toe of slope or soil stockpile.
 3. Protection of existing waterways: place barrier at top of stream bank.
 4. Inlet protection: place fence surrounding catch basins.
- IMPLEMENTATION**
1. Place posts 6' apart on center along contour (or use preassembled unit) and drive 2' minimum into ground. Excavate an anchor trench immediately up gradient of posts
 2. Cut fabric to require width, unroll along length of barrier and drape over barrier. Secure fabric to mesh with twine, staples, or similar, with trailing edge extending into anchor trench
 3. Backfill trench over fabric to anchor
 4. Fabric must have 85% minimum sediment removal efficiency
- LIMITATIONS**
1. Recommended maximum drainage area of 0.5 acre per 100 feet
 2. Recommended maximum upgradient slope length of 150'
 3. Recommended maximum uphill grade of 2:1 (50%)
 4. Recommended maximum flow rate of 0.5 cfs
 5. Ponding should not be allowed behind fence
- MAINTENANCE**
1. Inspect immediately after any rainfall and at least daily during prolonged rainfall
 2. Look for runoff bypassing ends of barriers or undercutting barriers
 3. Repair or replace damaged areas of the barrier and remove accumulated sediment
 4. Reanchor fence as necessary to prevent shortcutting
 5. Remove accumulated sediment when it reaches 1/2 the height of the fence



Adapted from Davis County Stormwater Coalition materials.

WASTE DISPOSAL

WD



- DESCRIPTION**
Controlled storage and disposal of solid waste generated by construction activities.
- APPLICABILITY**
All construction sites
- IMPLEMENTATION**
1. Designate one or several waste collection areas with easy access for construction vehicles and personnel. Ensure no waterways or storm drainage inlets are located near the waste collection areas.
 2. Construct compacted earthen berm (See Earth Berm Barrier Information Sheet), or similar perimeter containment around collection area for impoundment in the case of spills.
 3. Ensure all on-site personnel are aware of and utilize designated waste collection area properly and for intended use only (e.g. all toxic, hazardous, or recyclable materials shall be properly disposed of separately from general construction waste).
 4. Arrange for periodic pickup, transfer and disposal of collected waste at an authorized disposal location. Include regular Porta-potty service in waste management activities.
- LIMITATIONS**
On-site personnel are responsible for correct disposal of waste.
- MAINTENANCE**
1. Discuss waste management procedures at progress meetings.
 2. Collect site trash daily and deposit in containers at designated collection areas.
 3. Randomly check disposed materials for any unauthorized waste (e.g. toxic materials).



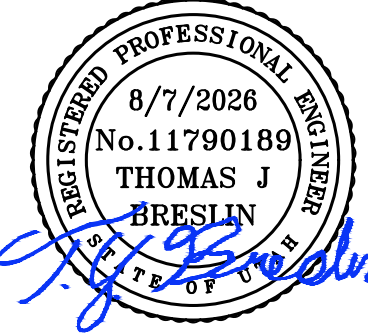
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ARCHITECT'S INFORMATION

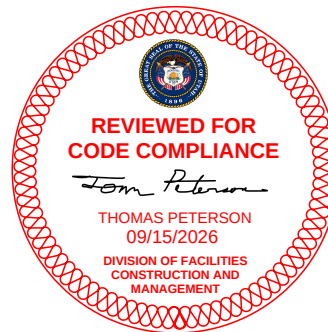


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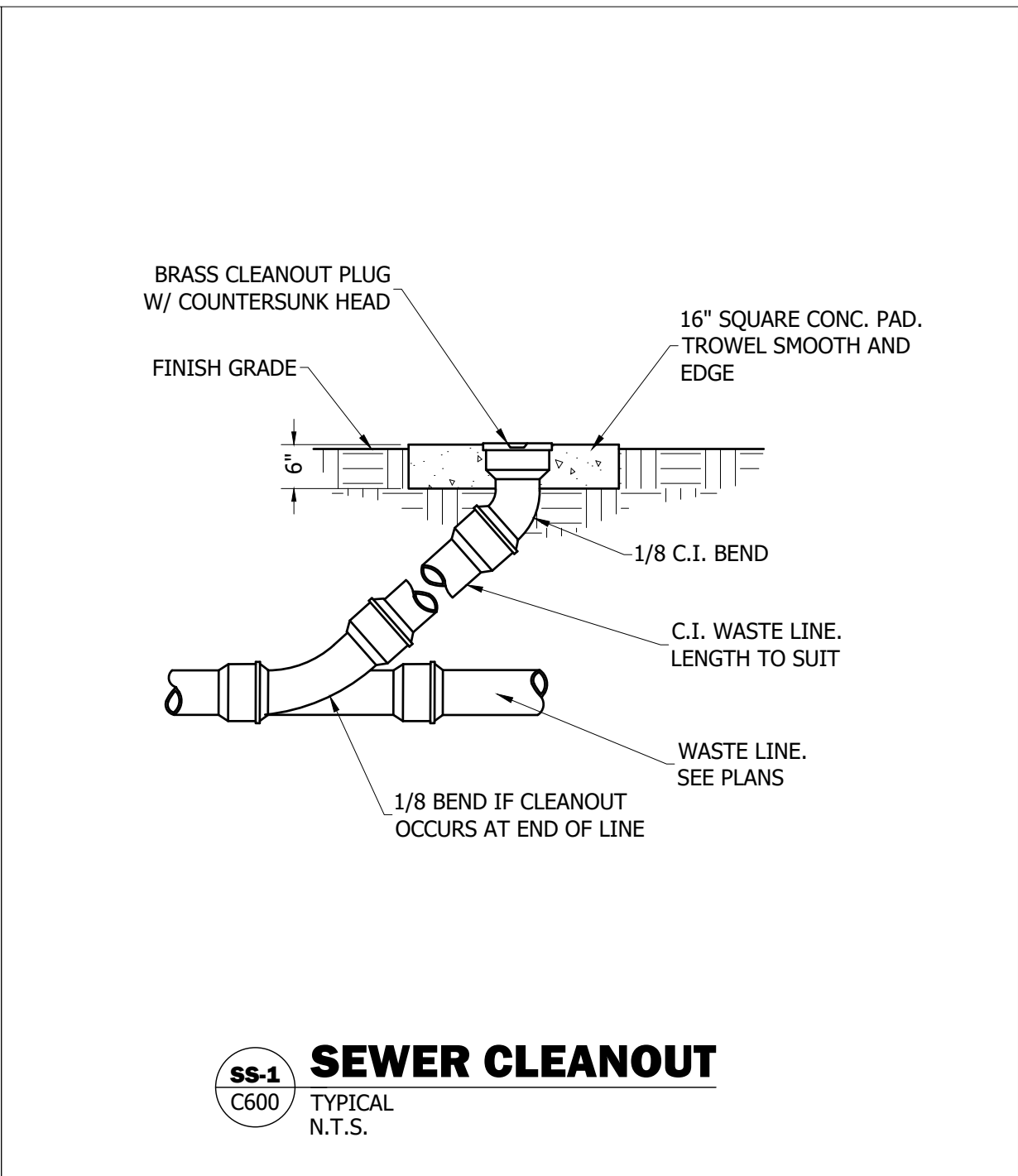
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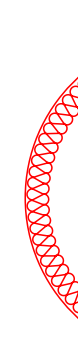
SHEET TITLE:

**EROSION
CONTROL
DETAILS**

SHEET NUMBER:

C691



ARCHITECTS'S INFORMATION  SPE ARCHITECTS P.O. Box 517 Kaysville, Utah 84037 t. 801.298.1368 info@spe-architect.com www.spe-architect.com																	
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DESIGNED BY:		CA															
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GENERAL STRUCTURAL NOTES

GENERAL

1. The structural notes are intended to complement the project specifications. Specific notes and details in the drawings shall govern over the structural notes and typical details.
2. Typical details and sections shall apply where specific details are not shown.
3. The structural drawings are not all-inclusive and do not contain all dimensions, elevations, openings, mechanical shafts, and penetrations needed to build the structure. The contractor shall coordinate these items with the Architectural, Mechanical and Electrical drawings.
4. Omissions or conflicts between the contract drawings and/or specifications shall be brought to the attention of the architect/engineer before proceeding with any work involved. In case of conflict, follow the most stringent requirement as directed by the architect/engineer at no additional cost to the owner.
5. The contractor shall submit a written request to the architect/engineer before proceeding with any changes, substitutions, or modifications. Any work done by the contractor before receiving written approval will be at the contractor's risk.
6. The contractor shall coordinate with all trades any items that are to be integrated into the structural system such as openings, penetrations, mechanical and electrical equipment, etc. Sizes and locations of mechanical and other equipment that differs from those shown on the contract drawings shall be reported to the architect/engineer.
7. The contractor shall provide adequate shoring and bracing as required for the chosen method of erection. Shoring and bracing shall remain in place until final connections for the permanent members are completed. The building shall not be considered stable until all connections are completed. Walls shall not be considered self-supporting and shall be braced until the roof system is completed.
8. The contractor shall not cut or core any holes in concrete walls without prior review by the architect/engineer.
9. Site observations by BHB Consulting Engineers' field representative shall not be construed as approval of construction procedures nor special inspection.
10. Detailing and shop drawing production for structural elements will require information (including dimensions) contained in the architectural, structural and/or other consultants' drawings. The structural drawings shall be used in conjunction with the architectural and other consultant's drawings. Some dimensions and elements such as elevations, depressions, slopes, mechanical housekeeping pads, etc. are not shown in the structural drawings. All dimensions shown on structural drawings shall be verified by contractor with architectural, mechanical, and electrical drawings.

11. Contractor shall review shop drawings for compliance with contract documents, and stamp shop drawings with review stamp prior to submission to architect for review. Review of shop drawings by BHB Consulting Engineers is for general compliance only and is not intended for approval. The shop drawing review shall not relieve the contractor from the responsibility of completing the project according to the contract documents. Fabrication shall not begin until shop drawings review process is complete. Shop drawings made from reproductions of the contract drawings will be rejected unless the contractor signs a release agreement prior to the shop drawings being reviewed.

12. Only an authorized representative of BHB Consulting Engineers may make changes to these contract drawings. BHB Consulting Engineers shall not be held responsible or liable for any claims arising directly or indirectly from changes made without written authorization by an authorized representative of BHB Consulting Engineers.

13. Bidding, pricing or construction done prior to receiving final building permits from the authorities having jurisdiction is at the contractor's own risk. Changes to the drawings may be required as part of the plan check process. BHB Consulting Engineers will not be held liable for, nor compensate for, changes to these drawings before final jurisdiction approval is obtained.

BASIS OF DESIGN

1. Governing Code International Building Code 2024
a. Risk Category ASCE 7-22 II
2. Dead Loads
a. Roof 20 psf
3. Snow Loads (Strength Level)
a. Ground Snow Load $P_g = 129$ psf
b. Snow Exposure Coefficient $C_e = 1.0$
c. Thermal Exposure Coefficient $C_t = 1.2$
i. R value used in design $50 \text{ m}^2\text{K/W}$
d. Roof Snow Load $P_f = 0.7 \cdot C_e \cdot C_t \cdot I_s \cdot P_g = 108$ psf plus Snow Drift
e. Min Roof Snow Load $P_m = 30$ psf
4. Rain Loads
a. Rain Intensity $i = 1.5$ in/hr
5. Roof Live Load 20 psf
6. Seismic Loads
a. Seismic Importance Factor, I_e 1.0
b. Seismic Design Category D
c. Site Specific Ground Motion Analysis Not Required per exceptions in section 11.4.5 of ASCE 7-22
d. Mapped Spectral Acceleration $S_s = 1.46g$
 $S_1 = 0.52g$
 $S_{ms} = 1.55g$
 $S_{m1} = 1.1g$
e. Soil Site Class Default
f. 5% Damped Spectral Response Accelerations at $S_{DS} = 2/3 \cdot S_{MS} = 1.04g$
 $S_{D1} = 2/3 \cdot S_{M1} = 0.733g$
 $T_s = 0.27$ seconds
g. Fundamental Building Period $T_s = 0.27$ seconds
h. Design Spectral Response Acceleration $S_a = 1.15g$
i. Seismic-Force-Resisting System Ordinary Steel Moment Frame
j. Response Modification Coefficient $R = 3.5$
k. System Over-strength Factor $\Omega_0 = 3$
l. Deflection Amplification Factor $C_d = 3$
m. Redundancy Factors $p_x = 1.3$; $p_y = 1.3$
n. Seismic Response Coefficient $C_s = S_a \cdot I_e / R$
o. Effective Seismic Weight W
i. Dead Loads of Structure
ii. 15% of Roof snow load
p. Base Shear $V_x = C_s \cdot W = 0.329 \cdot W$
 $V_y = C_s \cdot W = 0.329 \cdot W$
q. Analysis Procedure Equivalent Lateral Force (Static)
7. Wind Loads
a. Basic Wind Velocity (3 Second Gust) 103 mph
b. Exposure Type C

- c. Internal Pressure Coefficient, GCP_i +/-0.18
d. Topographic Factor, K_{zt} 1.0
e. Ground Elevation Factor, K_e 1.0
f. Components and Cladding Wind Force Table (psf, Strength Level Design Forces)

FOUNDATION

1. Soils Report
a. Author: Civil Solutions Group Inc.
b. Dated: July 1, 2026 (Rev 1)
c. Project No: 26-154
2. Soil Bearing Pressure 3,000 psf, see Earthwork Section.
3. Frost Protection 30" minimum to bottom of footing. Contractor shall field verify that the footing elevations and final grades indicated on the plans will provide the minimum frost protection. The contractor shall notify the architect/engineer if there are any locations where the minimum frost protection might not be achieved prior to placing concrete.
4. Lateral Soil Pressure Fluid Equivalent Density:
a. Active 28 pcf (retaining walls)
b. At Rest 42 pcf (rigid foundation walls)
c. Passive 532 pcf
5. Coefficient of Friction 0.45

EARTHWORK

1. All footings shall bear on 3'-0" of compacted structural fill extending down to suitable natural material. See "Engineered Structural Fill Detail" in drawings.
2. For bidding purposes only, the Contractor shall assume that an average of 3'-0" of existing soils needs to be removed and replaced with compacted structural fill. The contractor shall include in the bid a unit cost per cubic yard as an "ADD" and a "DEDUCT" where soil removal and replacement varies from the assumed value indicated above.
3. Consult the project specifications and soils report for further earthwork requirements.

CONCRETE

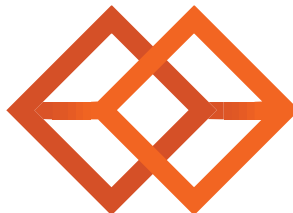
1. Materials, unless noted otherwise:
a. Normal weight aggregates ASTM C 33
i. Combined aggregate gradation for slabs on grade and other designated concrete shall be 8% - 18% for large top size aggregates (1.1/2") or 8% - 22% for smaller top size aggregates (1" or 3/4") retained on each sieve below the top size and above the No. 100. The range for the No. 30 and No.50 sieves shall be 8% - 15% retained in each. To avoid gap gradation the following shall occur:
1. The percent retained on two adjacent sieves shall not fall below 5%.
2. The percent retained on three adjacent sieves shall not fall below 8%.
3. When the percent retained on two adjacent sieves is less than 8%, the total retained on either of these sieves and the adjacent outside sieve shall be at least 13%. See ACI 302 Section 5.4.3.3 for more information.
ii. A gradation chart or table shall be submitted with mix designs for slabs on grade.
Maximum Aggregate Size shall not be larger than:
1. 3.1/2" or 1/5 the narrowest dimension of the forms
2. 1/3 the depth of the slab
3. 3/4 the minimum clear spacing between bars
b. Reinforcing Steel ASTM 615 Grade 60 ($F_y = 60$ ksi)
Use Grade 40 ($F_y = 40$ ksi) for field bent dowels with spacings indicated reduced by 1/3.
c. Headed Reinforcing Bars ASTM A970
d. Deformed Bar Anchors (DBA) ASTM A496
e. Headed Stud Anchors (HSA) ASTM A108
f. Anchor Rods See Structural Steel section
g. Admixtures:
i. Air-entraining admixtures shall comply with ASTM C 260 (when used).
ii. Calcium chloride shall not be added to the concrete mix.
iii. Water-reducing admixture shall comply with ASTM C 494/C 494M, Type A (when used)
iv. Retarding admixture shall comply with ASTM C 494/C 494M, Type B (when used).
v. Water-reducing and retarding admixture shall comply with ASTM C 494/C 494M, Type D (when used).
vi. High-range, water-reducing admixture shall comply with ASTM C 494/C 494M, Type F (when used).
vii. High-range, water-reducing and retarding admixture shall comply with ASTM C 494/C 494M Type G (when used).
viii. Admixture manufacturer shall have ISO 9001 Quality Certification. To ensure compatibility all admixtures shall be from the same manufacturer.
ix. Silica Fume – ASTM C1240
h. Type IL cement with a GU designation complying with ASTM C595 shall be used for all concrete. Alternatively, Type III cement complying with ASTM C150, or performance based hydraulic cement manufactured to meet the requirements of ASTM C1157 can be used with GU designation. Cement source shall remain the same for the entire job.
i. The water/cementitious materials ratios shall meet the requirements of Table 19.3.2.1 of ACI 318-19.
j. Cementitious Materials – Limit percentage, by weight, of cementitious materials other than portland cement as follows:
i. Fly Ash - ASTM C618, Class C or F – 35% maximum cementitious content.
ii. Slag Cement – ASTM C989, Grade 100 or 120 – 50% maximum cementitious content.
k. Provide air entraining as recommended by Table 19.3.3.1 of ACI 318-19. Concrete that extends above grade and is exposed to freezing and thawing while moist shall be air-entrained. Concrete in unconditioned spaces shall be considered site concrete.
l. No aluminum conduit or product containing aluminum or any other material injurious to concrete shall be embedded in concrete.
2. Compressive strengths of concrete at 28 days shall meet the follow performance requirements (see ACI-318-19; Chapter 19):
a. Footings & Interior Foundation Walls
Strength 3,000 psi
Classification F0, S0, W0, C0
b. Exterior Foundation Walls
Strength 3,500 psi
Classification F1, S0, W0, C0
c. Warehouse Interior Slabs-on-Grade
Strength 3,000 psi at 28 days
4,000 psi at 56 days
F0, S0, W0, C0
Classification
d. All Site Concrete
Strength 5,000 psi
Classification F3, S0, W1, C2
3. Reinforcement for concrete slabs on grade:
a. 6" thick concrete slab on grade. Reinforce slab with #3 bars at 18" o.c. each way with 2" max cover below the top surface of the concrete.

- i. At contractor's option, macro-synthetic fiber or welded wire fabric may be used in lieu of reinforcing bars with the following requirements:
1. 3 lbs minimum per cubic yard of macro-synthetic fiber reinforcing (ASTM C 1116 Type 3) with the following requirements:
a. Length 1.1/2" – 2"
b. Equivalent diameter of 0.016" to 0.05"
c. Minimum aspect ratio (length to equivalent diameter) of 50 to 90.
d. Provide a fiber dosage to achieve a minimum post-crack residual strength (f_{rs}) of 200 psi when tested according to ASTM C1609.
e. Maximum concrete shrinkage shall be 0.04% when tested according to ASTM C157 or C157 modified.
f. Fiber manufacturer shall provide the following:
i. Fiber dosage
ii. Mix design
iii. Finishing practices
2. 6" x 6" – W4/W4 welded wire fabric (ASTM A185 and A497) minimum, unless noted otherwise.

4. Only one grade or type of concrete shall be poured on the site at any given time.
5. The contractor shall be responsible for the design, detailing, care, placement and removal of all formwork and shores.
a. Supporting forms and shoring shall not be removed until structural members have acquired sufficient strength to safely support their own weight and any construction load to which they may be subjected. In no case, however, shall forms and shoring be removed in less than 24 hours after concrete placement.
6. Reinforcement shall have the following concrete cover:
a. Cast-in-place Concrete Clear Cover
i. Cast against and permanently exposed to earth 3"
ii. Formed concrete exposed to earth or weather:
#6 thru #18 bars 2"
#5 and smaller bars 1.1/2"
iii. Concrete not exposed to weather or in contact with ground:
Slabs, Walls and their piers, Joists; #11 bars and smaller 3/4"
Beams, Columns: Primary Reinf., Ties, Stirrups, Spirals 1.1/2"
7. Detailing:
a. Lap splice lengths shall be detailed to comply with the "Concrete Reinforcing Bar Lap Splice Schedule" in drawings. Splices may be made with mechanical splices capable of 125% tension capacity of the bar being spliced. Mechanical splices shall be the positive connecting type coupler and shall meet all International Building Code requirements and shall have a current ICC-ES report or IAPMO Certification. Use "Lenton" Standard Couplers (ICC ER-3967), "Bar-Lock" (ICC ESR-2495) or equal with internal protector. If mechanical splices are used, splices or couplers on adjacent bars shall be staggered a minimum of 24" apart along the longitudinal axis of the reinforcing bars.
b. At joints, provide reinforcing dowels to match the member reinforcing, unless noted otherwise.
c. At all discontinuous control or construction slab on grade joints, provide 2 - #4 x 48".
d. Corner Bars: Provide corner bars at intersecting wall corners using the same bar size and spacing as the horizontal wall reinforcing. Corner bars shall lap the horizontal reinforcing with the required lap splice length. See "Typical Corner Wall Reinforcing at Concrete Walls" detail in drawings.
e. All vertical reinforcing shall be doweled to footings, or to the structure below with the same size and spacing as the vertical reinforcing for the element above. Dowels extending into footings shall terminate with a 90-degree standard hook and shall extend to within 4" of the bottom of the footing. Footing dowels (#8 bars and smaller) with hooks need not extend more than 20" into footings.
f. Horizontal wall reinforcing shall be continuous through construction and control joints.
g. See "Typical Reinforcing for Miscellaneous Openings Less than 3'-0" in Concrete Walls" detail in drawings for reinforcing around miscellaneous openings (8" to 36" wide). For openings wider than 36", contact the engineer. All recesses that interrupt reinforcing shall be reinforced the same as an opening.
8. Construction Joints, Control (Contraction) Joints:
a. Construction joints in all horizontal and vertical construction joints including between top of footing and foundation walls shall be intentionally roughened to a full amplitude of approximately 1/4". The laitance on the concrete (thin, flaky layer of hardened, weakened hydrated cement) shall be mechanically removed from the surface after the concrete has achieved final set. Construction joints in slabs on grade shall not exceed a distance of 125'-0" o.c. in any direction.
b. Control joints shall be installed in slabs on grade so the length to width ratio of the slab is no more than 1.25:1. Control joints shall be completed as soon as final set is achieved and it is okay to operate the cutter on the slab. Final set is typically achieved within the first 4 to 12 hours after the slab has been finished in an area (depending on weather conditions and concrete hydration rate; 4 hours in hot weather to 12 hours in cold weather). For early entry saw cutting, joints should be cut within the first 1 to 4 hours (depending on weather conditions and concrete hydration rate; 1 hour for hot weather and 4 hours for cold weather). Where saw cut joints cannot be cut along the entire projected length of the joint, a 90-degree hand grinder or other tool shall be used to complete the joint. Control joints may be installed by:
i. Saw cut a depth of 1/4 the thickness of the slab (1.1/4" ± for early entry saws) minimum.
ii. Tooled joints a depth of 1/4 the thickness of the slab
iii. Saw cut depth shall be increased to 1/3 of the slab thickness (1.3/4" ± for early entry saws) where macro fibers are used.
c. For interior concrete slabs-on-grade, install construction or control joints in slabs on grade at a spacing not to exceed 24 times the slab thickness in any direction, unless noted otherwise. For interior concrete slabs-on-grade that are to receive floor coverings that are not sensitive to minor floor movement or surface imperfections (i.e. carpet, hardwood) the contractor has the option to increase the control joint spacing to 36 times the slab thickness in any direction.
9. Construction
a. Use chairs or other support devices recommended by the CRSI to support and tie reinforcement bars and WWF prior to placing concrete. WWF shall be continuously supported at 36" o.c. maximum. Reinforcing steel for slabs on grade shall be adequately supported. Support reinforcing steel of slabs on grade with precast concrete units. Lifting the reinforcing off the grade during placement of concrete is not permitted.
b. Concrete to be mechanically consolidated during placement per ACI standards.
c. Contractor shall coordinate placement of all openings, curbs, dowels, sleeves, conduits, bolts, inserts and other embedded items prior to concrete placement.
d. All embeds, anchors and dowels shall be securely tied to formwork or to adjacent reinforcing prior to the placement of concrete.
e. No pipes, ducts, sleeves, etc shall be placed in structural concrete unless specifically detailed or approved by the structural engineer. Penetrations through walls when approved shall be built into the wall prior to concrete placement. Penetrations will not be allowed in footings or grade beams unless detailed. Piping shall be routed around footings and grade beams and unless detailed. Footings shall be stepped to avoid piping.
f. Reinforcing Bars shall not be welded unless specifically shown on drawings. In such cases, use only AWS standards. Do not substitute reinforcing bars for DBAs or HSAs.

POST-INSTALLED ANCHORS

1. General Post-Installed Anchor Notes
a. Do not install adhesive anchors in concrete if less than 21 days old; do not install mechanical anchors, screw anchor or powder actuated anchors in concrete less than 7 days old. Contractor must obtain written approval from the engineer to install prior to these time periods. Do not apply full load to anchors until concrete has reached 28-day compression strength.
b. Anchors or adhesives specified in details shall be provided; alternative anchors or adhesives may be used if the contractor provides calculations demonstrating that the alternative can achieve the performance values of the specified product. These calculations, along with an ICC-ES ESR or IAPMO-UES ER approval for use in cracked concrete and compliant with the specified codes herein, must be



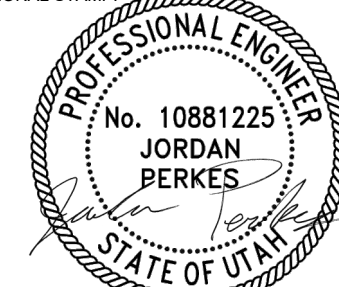
BHB STRUCTURAL
2766 South Main Street
Salt Lake City, Utah 84115
801-355-5656
bhb@bhengineers.com

ARCHITECT'S INFORMATION:



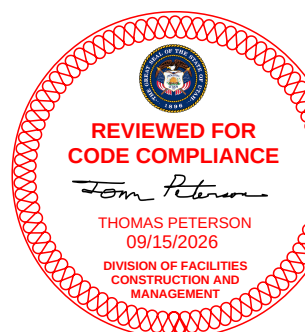
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P.O. Box 517
Kaysville, Utah 84037
1.801.288.1368
info@spe-architect.com
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PROFESSIONAL STAMP:



9/8/2026

CODE OFFICIAL STAMP:



PROJECT NAME:

UDOT BRIGHAM CITY
TOW PLOW STORAGE BUILDING

REVISIONS:

NO.	DATE	DESCRIPTION
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ISSUED:

NO.	DATE	DESCRIPTION
1	8/14/2026	CONSTRUCTION BID SET

OWNER PROJECT #: 26381900
BHB PROJECT #: 260407
DRAWN BY: CW
CHECKED BY: CB
DESIGNED BY: JP

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SHEET TITLE:

GENERAL
STRUCTURAL
NOTES

SHEET NUMBER:

S-001

GENERAL STRUCTURAL NOTES

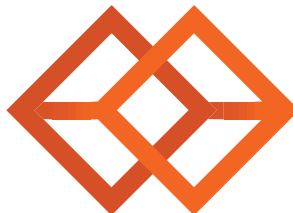
PREFABRICATED METAL BUILDING

- The design, fabrication and erection of all prefabricated elements and associated hardware shall comply with the latest requirements of the IBC, AISC, SDI and AISI.
- Prior to fabrication and installation of anchor bolts, the metal building supplier shall submit complete shop drawings and calculations including reactions bearing the stamp of a Registered Design Professional licensed in the same state as the project location. Complete calculations shall be submitted with the shop drawings.
- Do not modify any structural element of the prefabricated metal building without the written consent and direction from the manufacturer. Send copies of the consent and modifications to the Architect and Engineer.
- The design of the premanufactured structural roof system including the steel deck, joists, girders, columns, and the lateral force resisting system (including rigid frames) is the responsibility of the premanufactured metal building supplier. Refer to the prefabricated structural roof system supplier's drawings and calculations for the exact gravity roof load values and for the design of the roof and lateral systems.

- submitted to the structural engineer prior to use
- Follow all the manufacturer's recommendations and certification testing reports for anchor installation. See specific anchors below for more information.
 - No anchor shall be installed within 1.5 anchor rod diameters of an abandoned hole that has been filled with non-shrink grout; increase distance to 3 anchor rod diameters when the abandoned hole has not been filled.
2. Adhesive Anchors
- For anchors in concrete, the adhesives shall be divided into two groups: Standard Adhesives and High Strength Adhesives. Standard adhesives can be used in general applications when details reference the "Standard Adhesive Embedment Schedule" in drawings. High Strength adhesive groups will be specified for the particular application in the drawings and details. When a High Strength Adhesive is specified, the contractor has the option to use any of the adhesives in the High Strength group. When a Standard Adhesive is specified, the contractor has the option to use any of the adhesives in either group. See below for the acceptable adhesives in each group.
 - Standard Adhesive Group for anchors in concrete includes the following adhesives:
 - SET-XP (ICC-ES ESR-2508) by Simpson Strong-Tie
 - Pure 50+ (ICC-ES ESR-3576) by Dewart
 - AC100+ Gold (ICC-ES ESR-2582) by Dewart
 - HIT-RE 100 (ICC-ES ESR-3829) by Hilti, Inc.
 - High Strength Adhesive Group for anchors in concrete includes the following adhesives:
 - SET-3G (ICC-ES ESR-4057) by Simpson Strong-Tie
 - Pure 110+ (ICC-ES ESR-3298) by Dewart
 - AC200+ (ICC-ES ESR-4027) by Dewart
 - HIT-RE 500-V3 (ICC-ES ESR-3814) by Hilti Inc.
 - HIT-HY 200 (ICC-ES ESR-3187) by Hilti Inc.
 - Adhesive shall be within the manufacturer's recommended life time and prior to expiration date. Do not use adhesive that has not been stored per manufacturer's recommendations or may have experienced freeze thaw cycles or extreme heat.
 - Do not install adhesive anchor in wet or damp hole unless product is approved for such conditions without strength reduction. Do not install adhesive anchors if concrete temperature is below 50-degree F unless adhesive is approved for lower temperature without strength reduction. Refer to manufacturer's published installation instructions.
 - Follow all the manufacturer's recommendations and certification testing reports regarding hole cleaning prior to adhesive installation. All holes shall be drilled with ANSI standard bits designed for concrete. Diamond core drilled holes are not allowed unless indicated in specific details or approved by the structural engineer prior to use.
3. Mechanical Anchors
- For concrete, the mechanical anchor shall be Kwik Bolt TZ2 (ICC-ES ESR-4266) by Hilti Inc., Strong-Bolt 2 (ICC-ES ESR-3037) by Simpson Strong-Tie Inc. or Power-Stud+ SD2 (ICC-ES ESR-2502) by Dewart.
4. Screw Anchors
- For concrete, the screw anchors shall be Titen HD (ICC-ES ESR-2713 for concrete only) by Simpson Strong-Tie, or Screw-Bolt + (ICC-ER ESR-3889 for concrete only) by DeWalt or Kwik HUS-EZ (ICC-ES ESR-3027 for concrete only) by Hilti Inc.
5. Powder Actuated Fasteners
- For fasteners driven into steel (except at metal decks), concrete, or concrete over metal deck, the fastener shall be X-U P8 TH Universal Knurled Shank Fastener (ICC-ES ESR-2269) by Hilti Inc., PDPA (ICC-ES ESR-2138) by Simpson Strong-Tie Inc. or 8mm Head Spiral CSI Drive Pin (ICC-ES ESR-2024) by Dewart.

STRUCTURAL STEEL

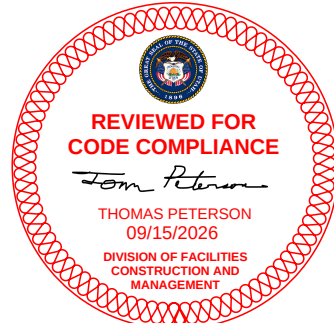
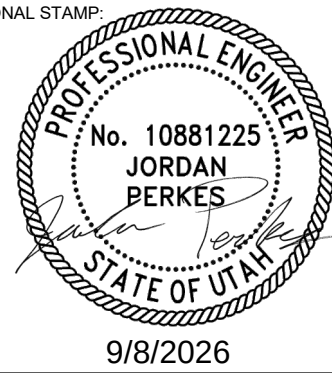
- Material:
 - Wide Flange and Channel Sections ASTM A992 (50 ksi)
 - Angles and Plates ASTM A572 Gr 50 (50 ksi)
 - Square or Rectangular HSS ASTM A500 (50 ksi) Grade C or ASTM A1085 (50ksi)
 - All Thread Rods ASTM A36 (36 ksi)
 - Deformed Bar Anchors (DBA) ASTM A1064
 - Headed Stud Anchors (HSA) ASTM A108
 - Anchor Rods
Typical, uno ASTM F1554, Grade 36, with ASTM A563 heavy hex nuts and ASTM F436 hardened washers Grade A
 - Bolted Connections: ASTM F3125 Grade A325 with ASTM A563 nuts and ASTM F436 hardened washers.
- Fabrication and construction shall comply with the latest edition of the following Codes and Standards:
 - American Institute of Steel Construction (AISC), "Specification for the Design, Fabrication and Erection of Structural Steel for Buildings," with "Commentary"
 - AISC "Code of Standard Practice" excluding the following: Section 3.2, Section 4.4, Section 4.4.1,
 - AISC "Specification for Structural Joints Using High-Strength Bolts"
 - American Welding Society (AWS), Structural Welding Code (specific items do not apply when they conflict with the AISC requirements)
 - AISC "Seismic Provision for Structural Steel Buildings"- ANSI/AISC 341
 - All exterior steel elements, including anchor rods and bolts shall be hot dip galvanized in accordance with ASTM A123 and A153 where applicable.
- Welding
 - Field weld flags that have been put in these documents are for suggestion only. The contractor has the option to substitute shop welding for field welding or vice versa. The steel fabrication and steel erection drawings must clearly distinguish between shop welds and field welds prior to any work being performed.
 - Steel fabricators shall indicate the shop welds that are excluded from their bids. Steel erectors shall indicate the field welds that are excluded from their bids. It is the responsibility of the contractor to coordinate shop welding and field welding with the appropriate subcontractors.
 - All welding and cutting shall be performed by AWS certified welders.
 - Use E70 XX (58 ksi yield, 70 ksi tensile) unless noted otherwise. E60 XX may be used for welding steel decks.
 - All intersecting steel shapes which are not bolted shall be connected by a fillet weld all around, unless noted otherwise. Where fillet weld sizes are not shown they shall be 1/16" less than the thinnest of the connected parts for thicknesses 1/4" and larger. Fillet welds on plates less than 1/4" shall be of the same size as the thinnest of the connected part.
 - Reinforcing Bars: Do not weld rebar. Do not substitute reinforcing bars for deformed bar anchors (DBAs), machine bolts, or headed stud anchors (HSAs).
 - Do not weld anchor bolts, including "tack" welds.
 - Headed Stud Anchors (HSAs) welding and deformed bar anchor welding shall conform to the manufacturer's specifications.



BHB STRUCTURAL
2766 South Main Street
Salt Lake City, Utah 84115
801-355-5656
bhb@bhbengineers.com



SPE ARCHITECTS
P.O. Box 517
Kaysville, Utah 84037
t 801.238.1388
info@spe-architect.com
www.spe-architect.com



UDOT BRIGHAM CITY
TOW PLOW STORAGE BUILDING

1325 POWER PLANT ROAD
BRIGHAM CITY, UTAH 84302

REVISIONS:		A	
NO.	DATE	DESCRIPTION	
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1	8/14/2026	CONSTRUCTION BID SET	
OWNER PROJECT #:		26381900	
BHB PROJECT #:		260407	
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SHEET TITLE: GENERAL STRUCTURAL NOTES			
SHEET NUMBER: S-002			

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REQUIREMENTS FOR SPECIAL INSPECTION, MATERIAL TESTING, AND STRUCTURAL OBSERVATION

STATEMENT OF SPECIAL INSPECTION AND QUALITY ASSURANCE

Special inspection and quality assurance (including structural testing), as required by section 1704 and 1705 of the 2024 IBC, shall be provided by an independent agency employed by the owner for the items in this section and other areas of the approved construction documents, unless waived by the building official.

The names and credentials of the Special Inspectors to be used shall be submitted to the Building Official for approval.

Responsibilities of the Special Inspector

	Special Inspector shall review all work listed in the special inspection schedules herein for conformance with the approved construction plans, specifications and 2024 IBC. Testing and inspection reports shall be sent on a weekly basis to the architect, engineer, building official and contractor for review. All items not in compliance shall be brought to the immediate attention of the contractor for correction, and if uncorrected, to the architect, engineer and building official. Once corrections have been made by the contractor, the special inspector shall submit a final signed report to the building official stating that the work requiring special inspection was, to the best of the special inspector's knowledge, in conformance with the approved construction plans, specifications and 2024 IBC.
--	--

Responsibilities of the Contractor

	The contractor shall submit a written statement of responsibility to the owner and the building official prior to the commencement of work in accordance with 2024 IBC section 1704.4. This statement shall indicate that the contractor will coordinate and cooperate with the required inspections contained herein. The contractor shall notify the designated special inspector that work is ready for inspection at least 24 hours before said inspection is required. All work requiring special inspection shall remain open and accessible until it has been observed by the special inspector and deemed acceptable through inspection report. Special inspection during fabrication is not required if the fabricator is registered and approved by the authority having jurisdiction to perform such work without special inspection. Upon completion of fabrication, the approved fabricator shall submit a certificate of compliance for submittal to the building official. The contractor shall be responsible for their own quality control including materials, fabrication, erection, etc.
--	---

SOILS CONSTRUCTION INSPECTIONS

Soils (2024 IBC Section 1705.6, and Table 1705.6)

ITEM FOR VERIFICATION & INSPECTION	INSPECTION FREQUENCY		COMMENTS
	CONTINUOUS	PERIODIC	
Site Preparation	-	X	Verify excavations are extended to proper depth and have reached proper materials. Verify that the site has been prepared in accordance with the soils report prior to placement of prepared fill.
Fill Material	X	-	Verify, during fill placement, that the material being used and procedures in accordance with the provisions of the approved geotechnical report. Verify densities and lift thicknesses during placement and compaction of the fill.
Continuous Footing Backfill: at least one test for each 40 linear feet or less of wall length, but no fewer than 2 tests.	-	X	At each compacted backfill layer.
Spot Footing Backfill: Minimum of one compaction test for each lift for each spot footing.	-	X	At each compacted backfill layer.
See specifications for further requirements.	-	-	

CONCRETE CONSTRUCTION INSPECTIONS

Concrete (2024 IBC Section 1705.3, Table 1705.3, and Section 1904) The following concrete elements require special inspection:

All concrete footings, Exterior concrete footings only, All concrete walls, including foundation walls, Interior concrete slab-on-grade, Concrete columns/piers.

ITEM FOR VERIFICATION & INSPECTION	INSPECTION FREQUENCY		COMMENTS
	CONTINUOUS	PERIODIC	
Protection of concrete during cold and hot weather	-	X	Verify maintenance of specified curing temperature and techniques
Verify materials used including use of the required mix design	-	X	Verify Use of required design mix. Verify mix design meets strength and exposure requirements listed on General Structural Notes
Formwork	-	X	Verify shape, location and member dimensions
Testing of concrete prior to concrete placement	-	X	Fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.
Bolts installed in concrete	X	-	Inspection of anchors or embeds cast in concrete is required when allowable loads have been increased or where strength design is used. Prior to and during concrete placement.
Embeds and Inserts installed in concrete	X	-	Prior to and during concrete placement.
Concrete reinforcing steel placement	-	X	Verify that reinforcing is of specified type, grade and size; that it is free of oil, dirt and rust; that it is located and spaced properly; that hooks, bends, ties, stirrups and supplemental reinforcement are placed correctly; that lap lengths, stagger and offsets are provided; and that all mechanical connections are installed per the manufacturer's instructions and/or evaluation report.
Concrete placement and samples	X	-	Cylinders, slump, temperature and air-entrainment shall be done for every 150 cubic yards or each day's production if the day's production is less than 150 cubic yards nor less than once for each 5000 sq. ft of surface area for slabs and walls.
See specifications for further concrete testing requirements.	-	-	

STEEL BOLTED CONSTRUCTION INSPECTIONS

Where special inspections are listed under "Random Basis", special inspection of elements and items shall be performed on a random basis. Operations need not be delayed pending these inspections. Where special inspection items are listed under "Every Element", special inspection shall be performed for each element, joint, or member, as applicable based on the task listed below.

High Strength bolted connections (2024 IBC section 1705.2.1, section 1705.13.1 and section 1705.14.1 and AISC 360-22 Chapter N and AISC 341-22 Chapter J)

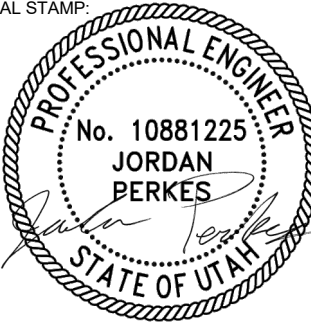
ITEM FOR VERIFICATION & INSPECTION	INSPECTION PLAN		COMMENTS
	Every Element	Random Basis	
Inspection Tasks Prior to Bolting			
Manufacturer's certifications available for fastener materials	X	-	
Fasteners	-	X	Marked in accordance with ASTM requirements
Proper fasteners selected for the joint detail	-	X	Including grade, type, bolt length if threads are to be excluded from shear plane.
Proper bolting procedure selected for joint detail	-	X	
Connecting elements	-	X	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	-	X*	Not required if only snug-tight joints are specified per [Section N5.6(1) of AISC 360-22]) Special Inspector shall document the work has been performed in accordance with the contract documents, either in the shop or field, including noncompliant work and whether that work has been satisfactorily repaired.
Proper storage	-	X	Storage provided for bolts, nuts, washers and other fastener components
Inspection Tasks During Bolting			
Fastener assemblies, of suitable condition	-	X	Verify that fasteners placed in all holes and washers (if required) are positioned as required.
Joint	-	X	Verify that joint brought to the snug-tight condition (min) unless noted otherwise.
Fastener component	-	X	Verify that fastener component not turned by the wrench prevented from rotating
Pretensioned Fasteners	-	X	Verify that pretensioned fasteners are pretensioned in accordance with the RCSC Specification, progressing systematically from the most rigid point toward the free edges (Not required if only snug-tight joints are specified per [Section N5.6(1) of AISC 360-22]; Not required for pretensioned joints using turn-of-the-nut method with match-marking, direct-tension-indicators or twist-off type tension control bolt methods)
Inspection Tasks After Bolting			
Document acceptance or rejection of each bolted connection	X*	-	Special Inspector shall document the work has been performed in accordance with the contract documents, either in the shop or field, including noncompliant work and whether that work has been satisfactorily repaired.
*Required for elements designated in these structural drawings as "Seismic Resisting Elements – SRE".			

ARCHITECT'S INFORMATION:



SPE ARCHITECTS
P.O. Box 517
Kaysville, Utah 84037
1 801.238.1368
info@spe-architect.com
www.spe-architect.com

PROFESSIONAL STAMP:



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TOW PLOW STORAGE BUILDING

1325 POWER PLANT ROAD
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BHB PROJECT #:

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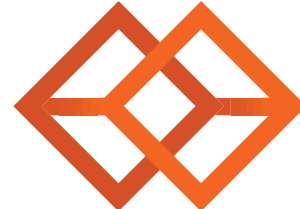
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INSPECTION NOTES

SHEET NUMBER:

S-003



BHB STRUCTURAL
2766 South Main Street
Salt Lake City, Utah 84115
801-355-5656
bhb@bhbengineers.com

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REQUIREMENTS FOR SPECIAL INSPECTION, MATERIAL TESTING, AND STRUCTURAL OBSERVATION

STEEL WELDED CONSTRUCTION INSPECTIONS

Definition of Terms

Where special inspections are listed under "Random Basis", special inspection of elements and items shall be performed on a random basis. Operations need not be delayed pending these inspections. Where special inspection items are listed under "Every Element", special inspection shall be performed for each element, joint, or member, as applicable based on the task listed below.

Structural Welding (2024 IBC section 1705.2.1 and section 1705.13.1 and section 1705.14.1 and AISC 360-22 Chapter N and AISC 341-22 Chapter J)

ITEM FOR VERIFICATION & INSPECTION	INSPECTION PLAN		COMMENTS
	Every Element	Random Basis	
Inspection Tasks Prior to Welding			
Welding procedures specifications and manufacturer certifications for welding consumables shall be available	X	-	Welding procedures shall be submitted to the Engineer of Record for review.
Material identification (type/grade)	-	X	
Welder identification system	-	X	Verify there is a system in place to identify the welder who has welded a joint or member.
Fit-up of groove welds	X*	X	Including joint geometry, joint preparation, dimensions, cleanliness, tacking and backing type and fit.
Configuration and finish of access holes	-	X	
Fit-up of fillet welds	X*	X	Including alignment, gaps at root, dimensions, cleanliness and tacking.
Check welding equipment	-	X	
SRE Welds and Demand Critical Welds	X	-	Provide manufacturer's certifications that the filler metal meets the supplemental notch toughness requirements, as indicated in these documents. When the filler metal manufacturer does not supply such supplemental certifications, the fabricator or erector, shall have the necessary testing performed and provide the applicable test reports to the Engineer of Record for review.
*Required for elements designated in these structural drawings as "Seismic Resisting Elements – SRE". May be reduced from 'Every Element' to 'Random Basis' after ten satisfactory welds have been completed. Subsequently, the inspector may change the requirements from 'Random Basis' to 'Every Element' and vice versa at their discretion.			
Inspection Tasks During Welding			
Use of qualified welders	-	X	
Control and handling of welding consumables	-	X	Including packaging and exposure control
Cracked tack welds	-	X	Verify no welding over cracked tack welds.
Environmental conditions	-	X	Including wind speed within limits and precipitation and temperature
WPS followed	-	X	Including settings on welding equipment, travel speed, selected welding materials, shielding gas type/flow rate, preheat applied, interpass temperature (min./max.) maintained, proper position (F, V, H, OH)
Welding techniques	-	X	Including interpass and final cleaning, each pass within profile limitations, each pass meets quality requirements
Inspection Tasks After Welding			
Welds cleaned	-	X	
Size, length and location of welds	X	-	
Welds meet visual acceptance criteria	X**	-	Including crack prohibition, weld/base-metal fusion, crater cross section, weld profiles, weld size, undercut and porosity.
Arc strikes, k-area, weld access holes for flanges greater than 2", backing removed and weld tabs removed (if required), repair activities	X**	-	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" of the weld.
Ultrasonic testing (UT) for complete-joint-penetration (CJP) groove welds, partial penetration groove welds when used in column splices, and welds subject to fatigue	-	X	Perform UT on 10% of welds subject to transversely applied tension loading in butt, T- and corner joints, in material 5/16" thick or greater. For materials less than 5/16" thick, ultrasonic testing is not required. The UT rate must be increased to 100% if the rejection rate exceeds 5% of the welds tested. See Sections N5.5d and N5.5f for more information.
Placement of reinforcing or contouring fillet welds	X**	-	
Ultrasonic testing (UT) for base metal thicker than 1.1/2", loaded in tension in the through-thickness direction in T- and corner-joints where the connected material is greater than 3/4" and contains CJP groove welds	X**	-	Provide UT for discontinuities found within t/ 4 of the steel surface shall be accepted or rejected based on criteria of A.W.S. D1.1/D1.1M Table 6.2 where 't' is the thickness of the part subjected to tension load. All deficient welds shall be corrected and tested at no additional cost to the owner.
Document acceptance or rejection of each welded joint or member	X**	-	
** Required for elements designated in these structural drawings as "Seismic Resisting Elements – SRE". All welding inspections and nondestructive testing shall satisfy the requirements above and AWS D1.8/D1.8M. The Inspector shall document the work has been performed in accordance with the contract documents, either in the shop or field, including noncompliant work and whether that work has been satisfactorily repaired.			

OPEN-WEB STEEL JOIST CONSTRUCTION INSPECTIONS

Installation of open-web steel joists (IBC 2024 Section 1705.2.4, and Table 1705.2.4)

ITEM FOR VERIFICATION & INSPECTION	INSPECTION FREQUENCY		COMMENTS
	CONTINUOUS	PERIODIC	
End connections – welding or bolted	-	X	Follow SJI references listed in section 2207
Standard horizontal and diagonal bridging	-	X	Follow SJI references listed in section 2207
Bridging that differs from SJI specifications listed in section 2207.1	-	X	

MISCELLANEOUS STEEL CONSTRUCTION INSPECTIONS

Metal Deck Construction (2024 IBC section 1705.2.3, AWS D1.3, and section 6.1 of SDI QA/QC-2011)

ITEM FOR VERIFICATION & INSPECTION	INSPECTION FREQUENCY		COMMENTS
	CONTINUOUS	PERIODIC	
Material verification of metal deck(s)	-	X	Confirm that identification markings are provided that conform to applicable ASTM standards specified on construction documents
Placement and installation of metal deck	-	X	Confirm that the deck is installed per the approved construction documents, installation drawings, shop drawings and applicable reference standards.
Steel deck welding/fastening	-	X	Visual inspection is required to verify size and spacing of welds/fasteners for deck attachment to the supporting structure. Also verify spacing and size of side-seam attachments. Confirm that welds/fasteners meet acceptance criteria of applicable referenced standards and manufacturer's instructions. Where applicable, welder qualifications should be verified.

Metal Building System (2024 IBC section 1705.2.6)

Installation of Rafter/Beam flange braces and column flange braces.	-	X	
Installation of purlins and girts, including specified lapping.	-	X	
Purlin and girt restraint / bridging / bracing.	-	X	
Installation of X-bracing, tightened to remove any sag.	-	X	

POST-INSTALLED ANCHOR INSPECTIONS

ITEM FOR VERIFICATION & INSPECTION	INSPECTION FREQUENCY		COMMENTS
	CONTINUOUS	PERIODIC	
Post-Installed Anchors and Reinforcing Bars (2024 IBC Section 1705.1.1)			
Adhesive Anchors and Reinforcing Bars	X	-	Special inspection shall be performed per manufacturer's requirements and approved ICC-ES reports noted in POST-INSTALLED ANCHORS section of the General Structural Notes prior to installation of adhesive and anchor rod. If the anchor is not installed in a horizontal, upwardly inclined or overhead orientation meant to resist sustained tension loads, special inspection may be reduced to a periodic frequency.
Mechanical Anchors and Screw Anchors	-	X	Special inspection shall be provided per manufacturer's requirements and approved ICC-ES reports noted in POST-INSTALLED ANCHORS section of the General Structural Notes prior to installation of mechanical or screw anchor.

STRUCTURAL OBSERVATION PROGRAM

If structural observations are required, they shall be done by the Engineer of Record or an approved subordinate at the stages of construction listed in the Construction Notification Phases section of these notes. The structural observer shall visually observe representative locations of structural systems, details and load paths for general conformance with the approved construction documents. Structural observation does not include or waive the responsibility for the special inspections indicated in these structural drawings. At the conclusion of the project, the designated structural observer shall submit to the building official a written statement that the site visits have been made and identify any reported deficiencies that to the best of the structural observer's knowledge have not been resolved (See IBC 2024 1704.6).

STRUCTURAL OBSERVATION PROGRAM REQUIRED BY CODE:	YES	NO
		X

CONSTRUCTION MILESTONE SCHEDULE

CONTRACTOR TO NOTIFY ENGINEER AT THE FOLLOWING CONSTRUCTION PHASES:

CONCRETE	
Footings, stem walls and piers	Prior to pouring concrete

DEFERRED SUBMITTALS

For the purposes of this section, deferred submittals are defined as per section 107.3.4.1 of the IBC 2024. Submittal documents for deferred submittal items shall be submitted to the engineer, architect and building official for their review for general conformance with the design of the building.

DEFERRED STRUCTURAL SUBMITTALS FOR THIS PROJECT ARE

Prefabricated metal buildings

ARCHITECT'S INFORMATION:

SPE ARCHITECTS
P.O. Box 517
Kaysville, Utah 84037
1 801.238.1368
info@spe-architect.com
www.spe-architect.com

PROFESSIONAL STAMP:

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UDOT BRIGHAM CITY
TOW PLOW STORAGE BUILDING

1325 POWER PLANT ROAD
BRIGHAM CITY, UTAH 84302

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OWNER PROJECT #:

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SPECIAL INSPECTION NOTES

SHEET NUMBER:

S-004

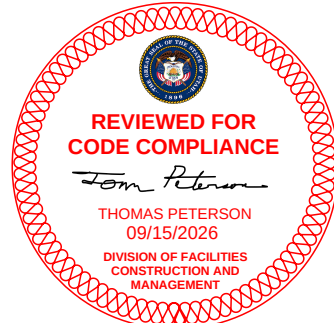
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2766 South Main Street
Salt Lake City, Utah 84115
801-355-5656
bhb@bhbengineers.com

A technical line drawing of a rectangular frame structure. The structure consists of four vertical supports, each with a square base, connected by horizontal beams. The beams are shown in perspective, with one set of beams forming the outer perimeter and another set forming an inner rectangle. The vertical supports are positioned at the corners of the outer rectangle. The drawing is a black and white line art, showing the structural layout without shading or texture.

	SECTION MARK	FCx.x	INDICATES CONTINUOUS FOOTING. SEE SCHEDULE ON SHEET S-601
	SHEET NUMBER	FSx.x	INDICATES SPOT FOOTING. SEE SCHEDULE ON SHEET S-601
	FOOTING DESIGNATION	C.J.	INDICATES CONTROL / CONSTRUCTION JOINT. SEE DETAIL(S) S-501
	TOP OF FOOTING ELEVATION	SC-x	INDICATES STEEL COLUMN BY OTHERS S-601
	INDICATES CONCRETE WALL. DASHED WALLS STOP AT DECK	CP-x	INDICATES CONCRETE PIER. SEE SCHEDULE ON SHEET S-601
	DEPRESS FOUNDATION WALL AND POUR SLAB OVER. SEE DETAIL S/S-501		
	INDICATES CONCRETE FOUNDATION WALL TYPE. SEE SCHEDULE ON SHEET S-601		

A technical line drawing of a rectangular frame structure. The structure consists of four vertical supports, each with a square base, connected by horizontal beams. The beams are shown in perspective, with one set of beams forming the outer perimeter and another set forming an inner rectangle. The vertical supports are positioned at the corners of the outer rectangle. The drawing is a black and white line art, showing the structural layout without shading or texture.A technical line drawing of a rectangular frame structure. The structure consists of four vertical supports, each with a square base, connected by horizontal beams. The beams are shown in perspective, with one set of beams forming the outer perimeter and another set forming an inner rectangle. The vertical supports are positioned at the corners of the outer rectangle. The drawing is a black and white line art, showing the structural layout without shading or texture.

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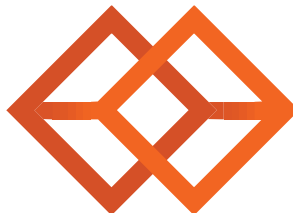
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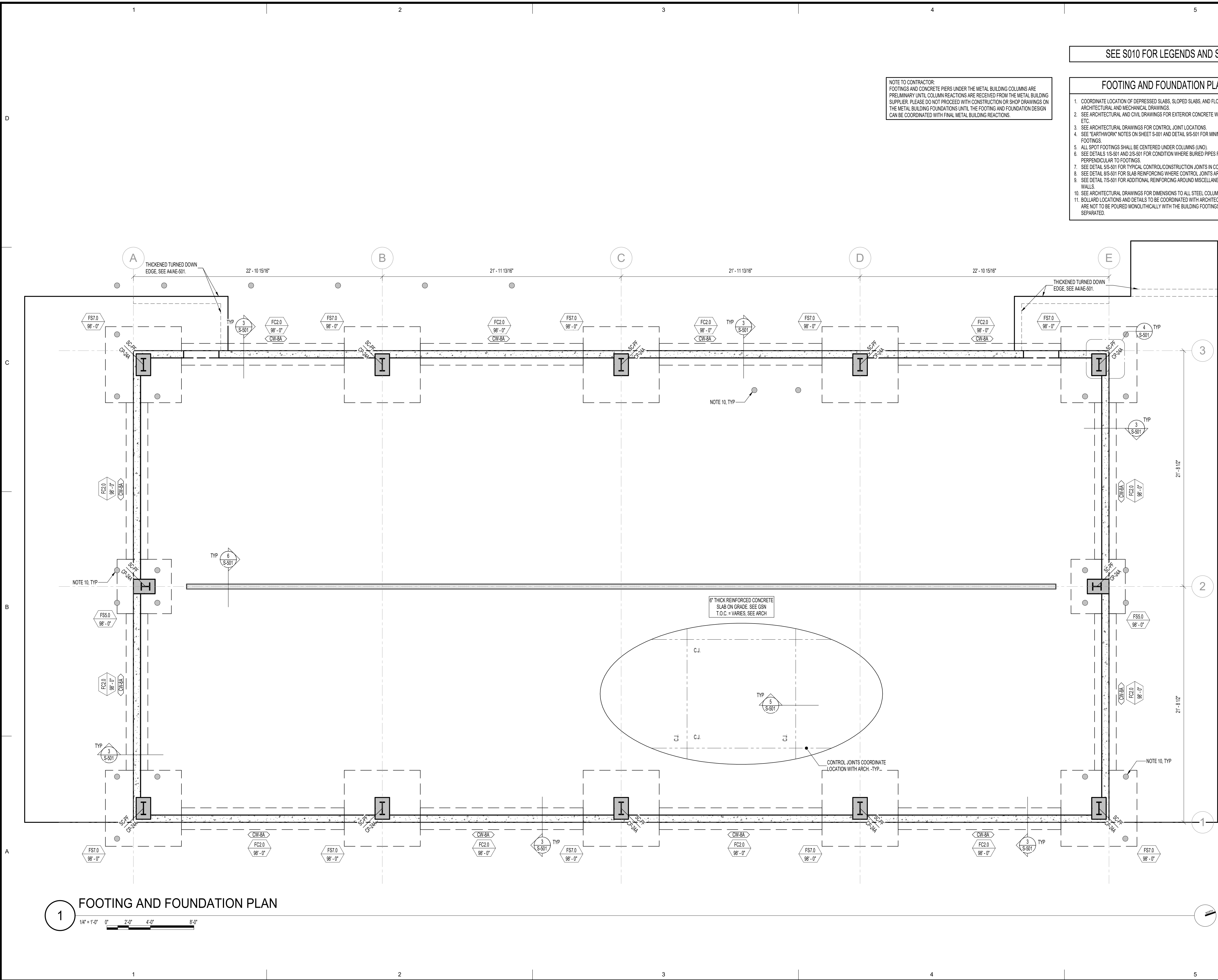
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SYMBOLS AND SHEET LIST

S-010



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Salt Lake City, Utah 84115
801-355-5656
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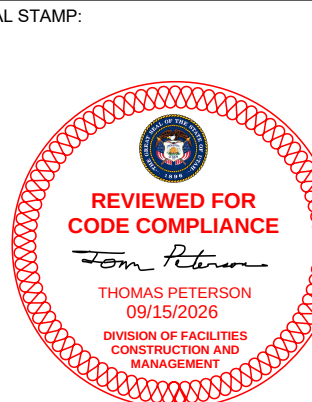
SEE S010 FOR LEGENDS AND SYMBOLS

NOTE TO CONTRACTOR:
FOOTINGS AND CONCRETE PIERS UNDER THE METAL BUILDING COLUMNS ARE PRELIMINARY UNTIL COLUMN REACTIONS ARE RECEIVED FROM THE METAL BUILDING SUPPLIER. PLEASE DO NOT PROCEED WITH CONSTRUCTION OR SHOP DRAWINGS ON THE METAL BUILDING FOUNDATIONS UNTIL THE FOOTING AND FOUNDATION DESIGN CAN BE COORDINATED WITH FINAL METAL BUILDING REACTIONS.

- FOOTING AND FOUNDATION PLAN NOTES**
- COORDINATE LOCATION OF DEPRESSED SLABS, SLOPED SLABS, AND FLOOR DRAINS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
 - SEE ARCHITECTURAL AND CIVIL DRAWINGS FOR EXTERIOR CONCRETE WORK AT DOORS, SIDEWALKS, ETC.
 - SEE ARCHITECTURAL DRAWINGS FOR CONTROL JOINT LOCATIONS.
 - SEE "EARTHWORK" NOTES ON SHEET S-001 AND DETAIL S-S-001 FOR MINIMUM FILL REQUIRED BENEATH FOOTINGS.
 - ALL SPOT FOOTINGS SHALL BE CENTERED UNDER COLUMNS (UNO).
 - SEE DETAILS 1S-S-001 AND 2S-S-001 FOR CONDITION WHERE BURIED PPES RUN PARALLEL AND PERPENDICULAR TO FOOTINGS.
 - SEE DETAIL S-S-001 FOR TYPICAL CONTROL/CONSTRUCTION JOINTS IN CONCRETE SLAB ON GRADE.
 - SEE DETAIL S-S-001 FOR SLAB REINFORCING WHERE CONTROL JOINTS ARE DISCONTINUOUS.
 - SEE DETAIL 7S-S-001 FOR ADDITIONAL REINFORCING AROUND MISCELLANEOUS OPENINGS IN CONCRETE WALLS.
 - SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS TO ALL STEEL COLUMNS.
 - BOLLARD LOCATIONS AND DETAILS TO BE COORDINATED WITH ARCHITECTURAL DRAWINGS. BOLLARDS ARE NOT TO BE POURED MONOLITHICALLY WITH THE BUILDING FOOTINGS AND NEED TO REMAIN SEPARATED.



SPE ARCHITECTS
P.O. Box 517
Kaysville, Utah 84037
T 801.238.1368
info@spe-architect.com
www.spe-architect.com



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**UDOT BRIGHAM CITY
TOW FLOW STORAGE BUILDING**

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BRIGHAM CITY, UTAH 84302

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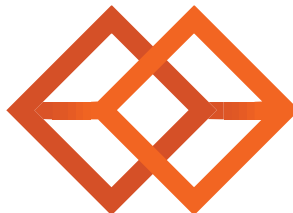
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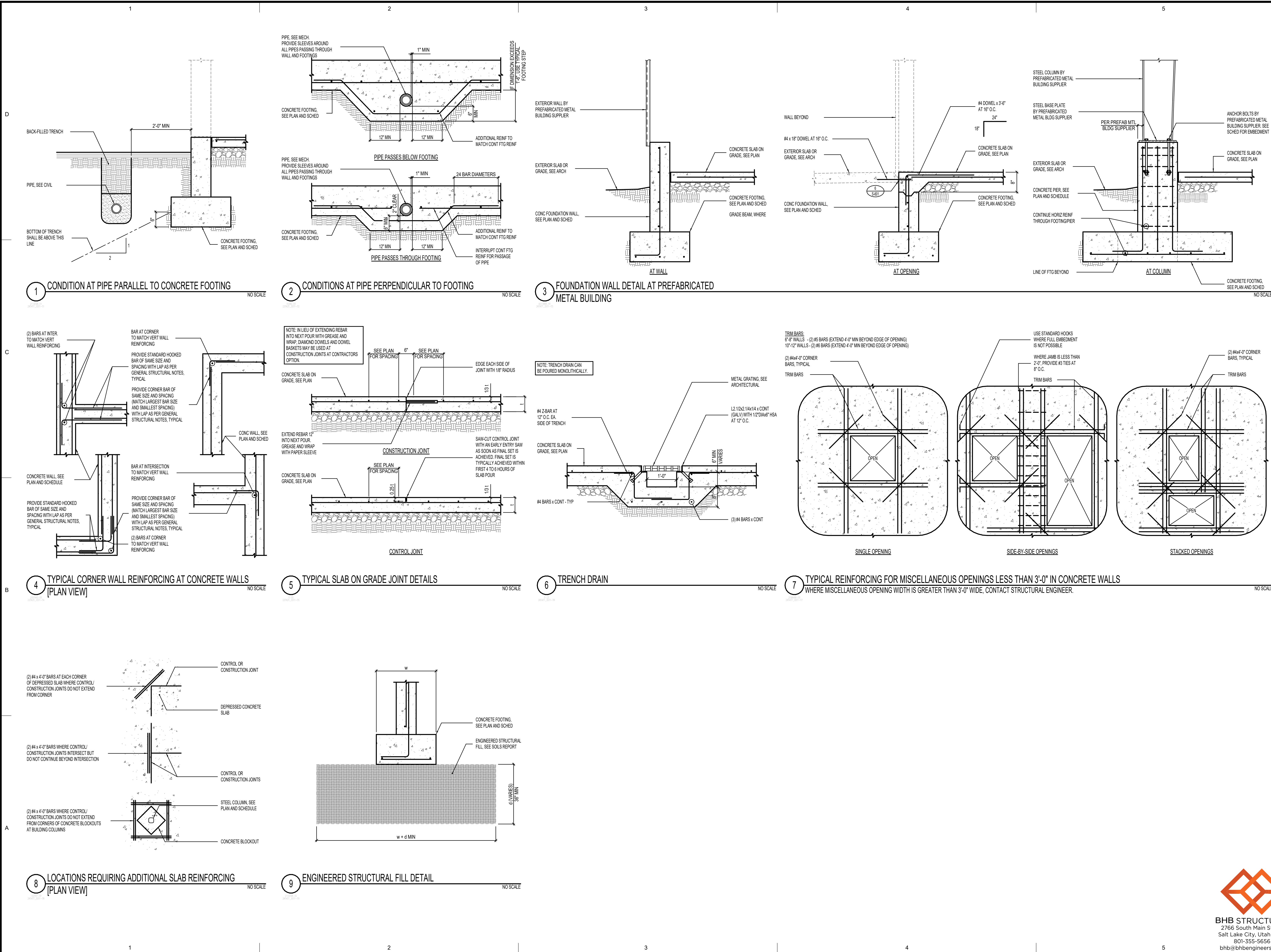
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SHEET TITLE:
**FOOTING AND
FOUNDATION PLAN**

SHEET NUMBER:
S-101



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2766 South Main Street
Salt Lake City, Utah 84115
801-355-5656
bhb@bhbenigneers.com

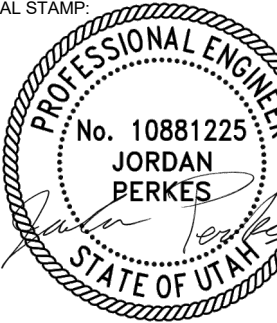


ARCHITECT'S INFORMATION:



SPE ARCHITECTS
P.O. Box 517
Kaysville, Utah 84037
1-801-238-1368
info@spe-architect.com
www.spe-architect.com

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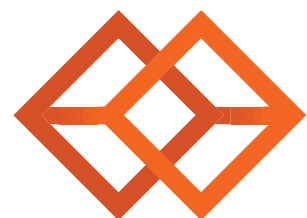
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SHEET TITLE:
DETAILS

SHEET NUMBER:
S-501



BHB STRUCTURAL
2766 South Main Street
Salt Lake City, Utah 84115
801-355-5656
bhb@bhengineers.com

CONCRETE CONTINUOUS FOOTING SCHEDULE (FC)											
MARK	WIDTH	LENGTH	DEPTH	REINFORCING CROSSWISE				REINFORCING LENGTHWISE			
				No.	SIZE	LENGTH	SPACING	No.	SIZE	LENGTH	SPACING
FC2.0	2'-0"	CONT	12"	-	#4	1'-6"	48"	3	#4	CONT	EQ

CONCRETE SPOT FOOTING SCHEDULE (FS)											
MARK	WIDTH	LENGTH	DEPTH	REINFORCING CROSSWISE				REINFORCING LENGTHWISE			
				No.	SIZE	LENGTH	SPACING	No.	SIZE	LENGTH	SPACING
FS5.0	5'-0"	5'-0"	12"	5	#5	4'-6"	EQ	5	#5	4'-6"	EQ
FS7.0	7'-0"	7'-0"	16"	8	#5	6'-6"	EQ	8	#5	6'-6"	EQ

CONCRETE FOOTING NOTES:
1. PLACE ALL FOOTING REINFORCING IN THE BOTTOM OF THE FOOTING WITH 3" CLEAR CONCRETE COVER (UNO).
2. TOP REINFORCING, WHERE OCCURS, SHALL BE PLACED IN THE TOP OF THE FOOTING WITH 2" MINIMUM CONCRETE COVER.
3. IF FOOTINGS ARE EARTH-FORMED, FOOTINGS SHALL BE 6" LONGER AND WIDER THAN SCHEDULED.
4. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.
5. SOME SCHEDULED FOOTINGS MAY NOT BE USED, SEE FOOTING AND FOUNDATION PLAN FOR FOOTING MARKS.

1 CONCRETE FOOTING SCHEDULE
1/2" = 1'-0"

BAR SIZE	f'c = 3000psi & f'c = 3500 psi				f'c = 4000psi & f'c = 4500 psi				f'c = 5000psi				f'c = 6000psi			
	REGULAR		TOP		REGULAR		TOP		REGULAR		TOP		REGULAR		TOP	
	CLASS		CLASS		CLASS		CLASS		CLASS		CLASS		CLASS		CLASS	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
#3	17"	22"	22"	28"	15"	19"	19"	24"	13"	17"	17"	22"	12"	16"	15"	20"
#4	22"	29"	29"	37"	19"	25"	25"	32"	17"	22"	22"	29"	16"	20"	20"	27"
#5	28"	36"	36"	47"	24"	31"	31"	40"	22"	28"	28"	36"	20"	26"	26"	33"
#6	33"	43"	43"	56"	29"	37"	37"	48"	26"	33"	33"	43"	24"	31"	31"	40"
#7	48"	63"	63"	81"	42"	54"	54"	70"	37"	49"	49"	63"	34"	44"	44"	58"
#8	55"	72"	72"	93"	48"	62"	62"	80"	43"	56"	55"	72"	39"	51"	51"	66"
#9	62"	81"	81"	105"	54"	70"	70"	91"	48"	63"	63"	81"	44"	57"	57"	74"
#10	70"	91"	91"	118"	61"	79"	79"	102"	54"	70"	70"	91"	50"	64"	64"	83"
#11	78"	101"	101"	131"	67"	87"	87"	113"	60"	78"	78"	101"	55"	71"	71"	93"

TABULATED VALUES ARE FOR CASE 1 REINFORCEMENT, WHERE THE REQUIREMENTS OF TABLE BELOW ARE MET. WHERE THESE CONDITIONS ARE NOT MET, MULTIPLY THE LAP LENGTHS (l_h) BY 1.5.

REQUIREMENT FOR CASE 1 LAP LENGTHS				
BAR CLEAR SPACING	CLEAR COVER	STIRRUPS OR TIES		
>=db	>=db	>=CODE MINIMUM THROUGHOUT l _h		
>=2db	>=db	NO REQUIREMENT		

db = BAR DIAMETER
l_h = LAP SPICE LENGTH
l_d = DEVELOPMENT LENGTH = CLASS A SPICE LENGTH

CONCRETE REINFORCING BAR LAP SPICE NOTES:
1. THIS SCHEDULE SHALL BE USED FOR ALL BAR SPICES IN CONCRETE, UNLESS NOTED OTHERWISE.
2. CLASS 'A' SPICES MAY BE USED ONLY AT SLABS ON GRADE OR WHERE APPROVED BY EOR IN CASES WHERE 50% OR LESS OF THE BARS ARE SPICED WITHIN THE LAP SPICE LENGTH.
3. CLASS 'B' SPICES SHALL BE USED FOR ALL SPICES UNLESS NOTED OTHERWISE.
4. TIES AND STIRRUPS SHALL NOT BE SPICED.
5. DO NOT SPICE VERTICAL BARS IN RETAINING WALLS UNLESS SPECIFICALLY SHOWN.
6. THE VALUES TABULATED IN SCHEDULE ARE FOR GRADE 60 REINFORCING BARS. FOR GRADE 80, MULTIPLY LAP LENGTHS BY 1.33.
7. THE VALUES TABULATED IN SCHEDULE ARE MINIMUM REQUIREMENTS. LONGER LENGTHS MAY BE USED FOR CONSTRUCTIBILITY.
8. LAP SPICES ARE NOT ALLOWED FOR BARS GREATER THAN #11 BAR. THE LENGTHS IN SCHEDULE ARE FOR TENSION DEVELOPMENT LENGTH.
9. TOP BARS ARE CLASSIFIED AS HORIZONTAL BARS WHERE 12" OR MORE OF FRESH CONCRETE IS CAST BELOW THE REINFORCING BAR.
10. FOR EPOXY-COATED OR ZINC AND EPOXY DUAL-COATED BARS WITH CLEAR COVER < 3db OR CLEAR SPACING < 6db, MULTIPLY LAP LENGTHS BY 1.5. FOR ALL OTHER CASES MULTIPLY BY 1.2.
11. FOR LIGHT WEIGHT CONCRETE, MULTIPLY LAP LENGTHS BY 1.33.
12. SPICES FOR BUNDLED BARS:
A. FOR BUNDLED BARS OF THREE OR LESS, LAP SPICE LENGTHS SHALL BE MULTIPLIED BY 1.2.
B. FOR BUNDLED BARS OF FOUR OR MORE, LAP SPICE LENGTHS SHALL BE MULTIPLIED BY 1.33.
C. INDIVIDUAL BAR SPICES WITHIN A BUNDLE SHALL NOT OVERLAP.
D. ENTIRE BUNDLES SHALL NOT BE LAP SPICED.
13. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

2 CONCRETE REINFORCING - BAR LAP SPICE SCHEDULE
3/4" = 1'-0"

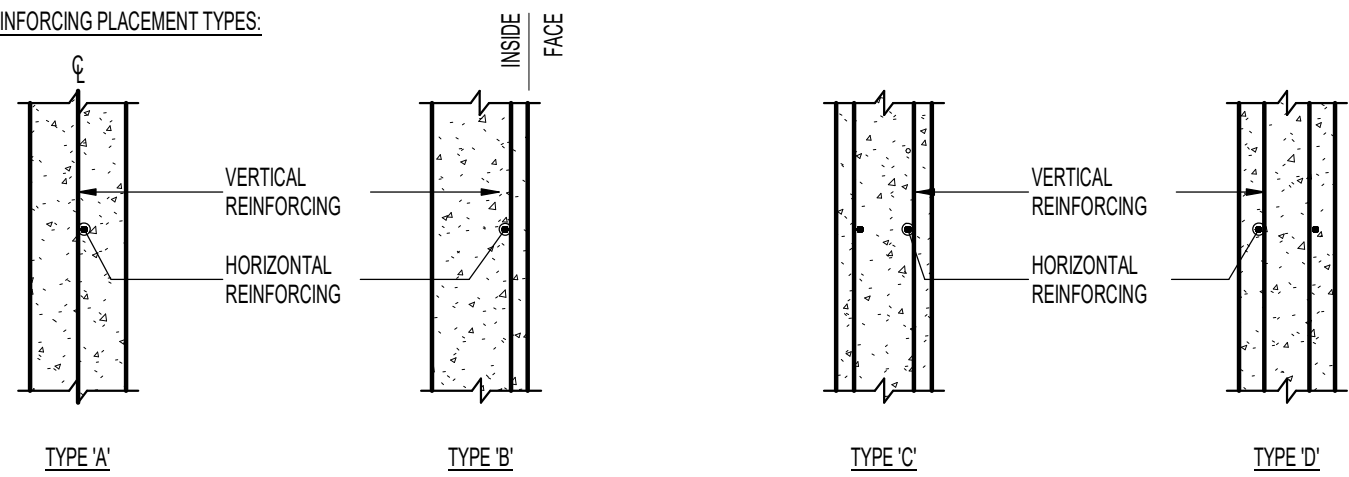
CONCRETE WALL SCHEDULES					
MARK	THICKNESS	REINFORCING			COMMENTS
		VERTICAL	HORIZONTAL	TOP AND BOTTOM	
CW-5A	8"	#4 AT 18" O.C.	#4 AT 12" O.C.	(1) #4	A

CONCRETE FOUNDATION WALL NOTES:
1. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

ABBREVIATIONS:
E.F. EACH FACE
I.F. INSIDE FACE
O.F. OUTSIDE FACE

THICKNESS	REINFORCING	
	VERTICAL	HORIZONTAL
6"	#4 BARS AT 18" O.C.	#4 BARS AT 18" O.C.
8"	#4 BARS AT 18" O.C.	#4 BARS AT 12" O.C.
10"	#4 BARS AT 18" O.C.	#5 BARS AT 15" O.C.
12"	#4 BARS AT 18" O.C. E.F.	#4 BARS AT 18" O.C. E.F.

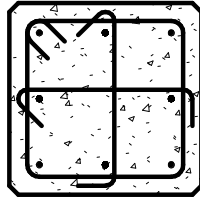
WALL REINFORCING PLACEMENT TYPES:



3 CONCRETE WALL SCHEDULE
3/4" = 1'-0"

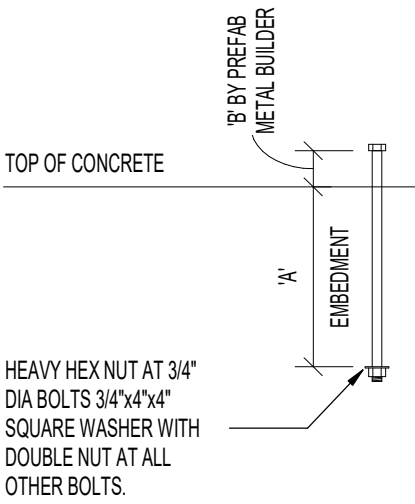
CONCRETE PIER SCHEDULE					
MARK	PIER SIZE			TYPE	COMMENTS
	W	X	L	VERTICAL	TIES
CP-24A	16"	X	24"	(6) #5 BARS	(3) #3 BARS AT 8" O.C.

CONCRETE PIER NOTES:
1. INSTALL (3) SETS OF TIES WITHIN TOP 5' OF ALL PIERS (UNO).
2. RUN HORIZONTAL CONCRETE WALL REINFORCING CONTINUOUS THROUGH PIER WHEN PIER IS POURED MONOLITHICALLY WITH CONCRETE WALL.
3. ALTERNATE THE POSITION OF 135 DEGREE HOOK IN EACH LAYER OF TIES.
4. AT ALL PIERS LOCATED IN CONCRETE SHEAR WALLS, CONTINUE TIES 12" MINIMUM INTO FOOTING.
5. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.



TYPE 'A'

4 CONCRETE PIER SCHEDULE
3/4" = 1'-0"



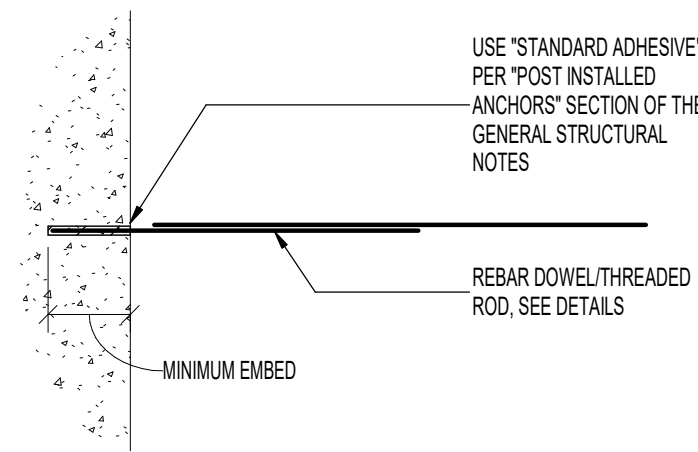
ANCHOR BOLT EMBEDMENT			
ANCHOR BOLT DIAMETER	'A'	GRADE	COMMENT
3/4"	1'-0"	F1554 GR 36	
1"	1'-6"	F1554 GR 55	

NOTES:
1. SEE PRE-FABRICATED STEEL BUILDING DRAWINGS FOR ANCHOR LOCATIONS, DIAMETERS, AND GRADE.
2. ALL ANCHOR BOLTS ARE F1554 GR36 ANCHORS, UNO WHERE EMBEDMENT IS LONGER THAN DEPTH TO BOTTOM OF FOOTING, EMBEDMENT IS TO BOTTOM OF FOOTING

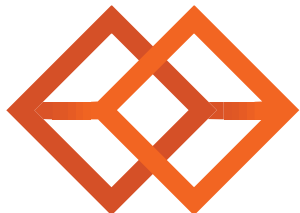
5 TYPICAL ANCHOR BOLT EMBEDMENT
3/4" = 1'-0"

STANDARD ADHESIVE EMBEDMENT SCHEDULE	
REBAR DOWEL (THREADED ROD SIZE)	MIN EMBEDMENT INTO CONCRETE OR GROUTED MASONRY
#3 (3/8")	3 3/8"
#4 (1/2")	4 1/2"
#5 (5/8")	5 5/8"
#6 (3/4")	6 3/4"

STANDARD ADHESIVE EMBEDMENT NOTES:
1. SPECIFIC EMBEDMENTS, NOTES AND DETAILS IN DRAWINGS SHALL GOVERN OVER THIS SCHEDULE.
2. HOLE DIAMETER SHALL BE DOWEL/ROD DIAMETER PLUS 1/8". FOLLOW MANUFACTURER'S INSTRUCTIONS FOR HOLE PREPARATION.
3. PROVIDE A 3" MINIMUM EDGE DISTANCE TO CENTER OF HOLE.
4. CONTACT STRUCTURAL ENGINEER IF MINIMUM EMBEDMENTS INDICATED ABOVE ARE NOT ACHIEVABLE.
5. SEE "POST INSTALLED ANCHORS" SECTION OF GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.



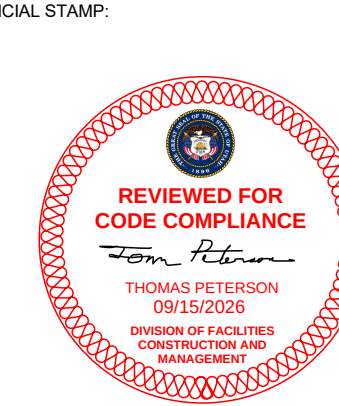
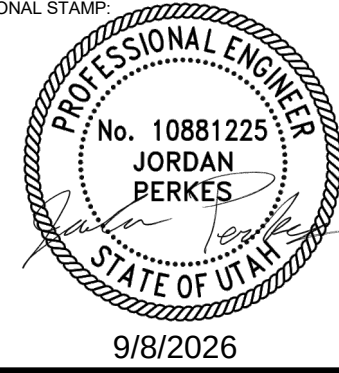
6 STANDARD ADHESIVE EMBEDMENT SCHEDULE
3/4" = 1'-0"



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SPE ARCHITECTS
P.O. Box 517
Kaysville, Utah 84037
1 801.238.1368
info@spe-architect.com
www.spe-architect.com



PROJECT NAME:

UDOT BRIGHAM CITY
TOW FLOW STORAGE BUILDING

1325 POWER PLANT ROAD
BRIGHAM CITY, UTAH 84302

ISSUED:		
NO.	DATE	DESCRIPTION
1	8/14/2026	CONSTRUCTION BID SET

OWNER PROJECT #: 26381900
BHB PROJECT #: 260407
DRAWN BY: CW
CHECKED BY: CB
DESIGNED BY: JP

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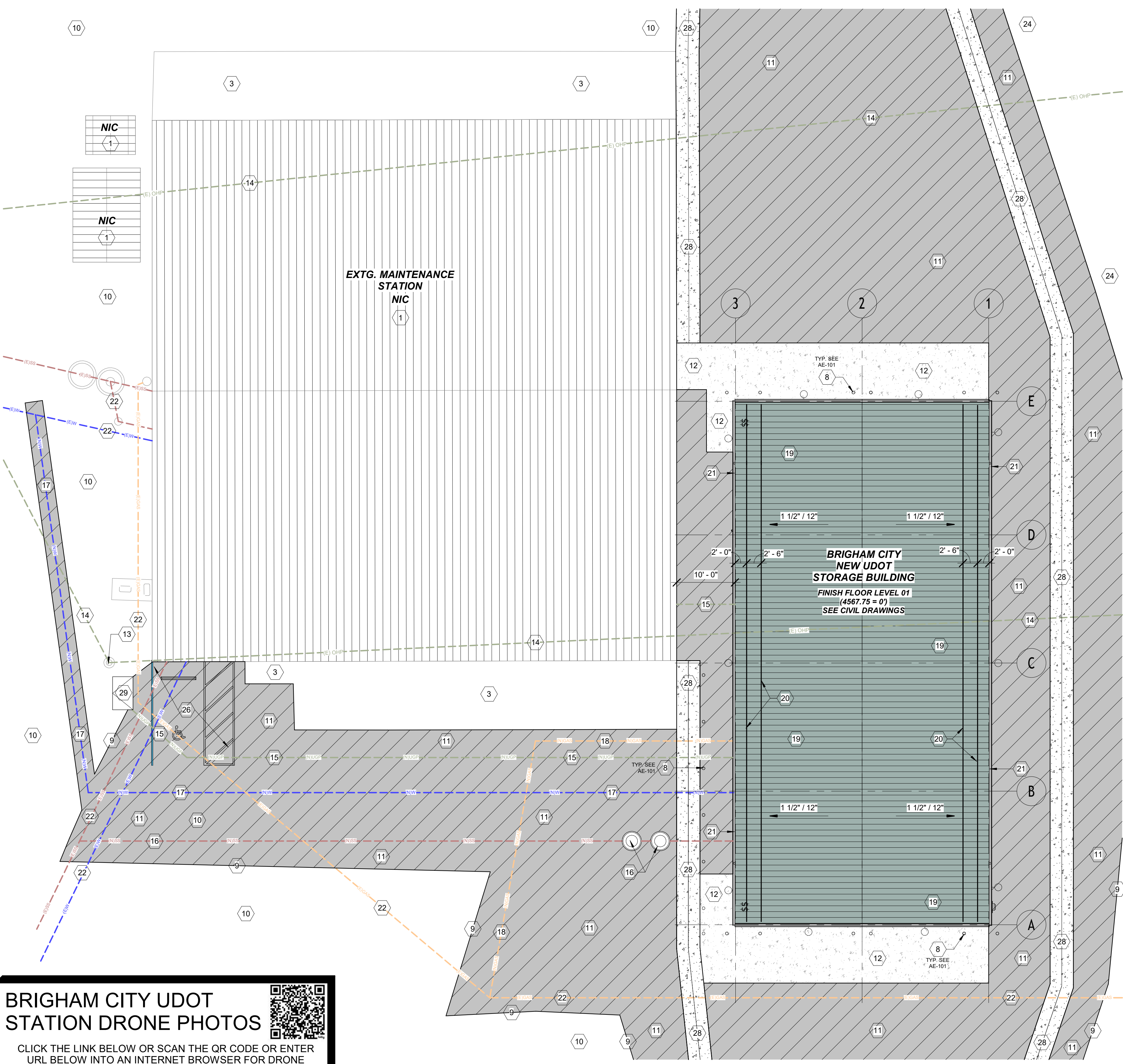
SHEET TITLE:

SCHEDULES

SHEET NUMBER:

S-601

MAINTAIN OWNER ACCESS AND OPERATIONS:
CONTRACTOR SHALL COORDINATE ALL UTILITY TRENCHING AND OTHER WORK OCCURRING WITHIN EXISTING DRIVE AISLES AND IN FRONT OF EXISTING OVERHEAD DOORS WITH OWNER. MAINTAIN CONTINUOUS ACCESS TO OVERHEAD DOOR BAYS AND OTHER REQUIRED OPERATIONAL AREAS. WHERE OPEN TRENCHES OR OTHER WORK WOULD RESTRICT ACCESS, PROVIDE TEMPORARY HEAVY-DUTY STEEL PLATES OR OTHER APPROVED MEANS CAPABLE OF SUPPORTING OWNERS MAINTENANCE VEHICLES AND EQUIPMENT. ANY TEMPORARY CLOSURE OR INTERRUPTION OF ACCESS SHALL BE COORDINATED IN ADVANCE AND APPROVED BY OWNER. EXTENDED CLOSURES WILL NOT BE PERMITTED. CONTRACTOR SHALL PHASE AND COORDINATE WORK AS REQUIRED TO AVOID DISRUPTION TO OWNER OPERATIONS.



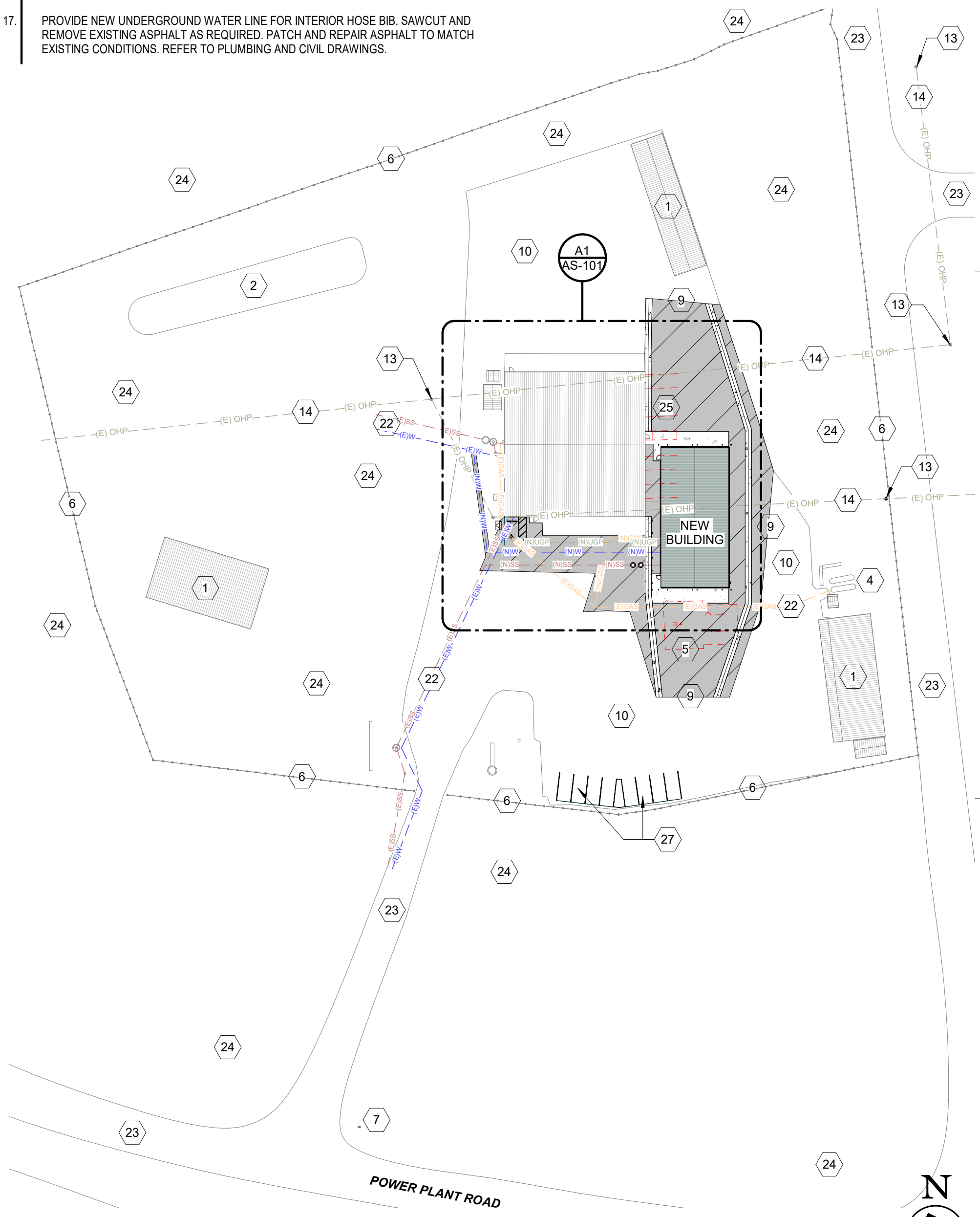
BRIGHAM CITY UDOT STATION DRONE PHOTOS

CLICK THE LINK BELOW OR SCAN THE QR CODE OR ENTER URL BELOW INTO AN INTERNET BROWSER FOR DRONE PHOTOS / VIDEOS OF EXISTING SITE CONDITIONS
https://bit.ly/UDOT_BrighamCity (note that url is case sensitive)

A1 ENLARGED SITE PLAN / ROOF PLAN
1" = 10'-0"

KEYED NOTES

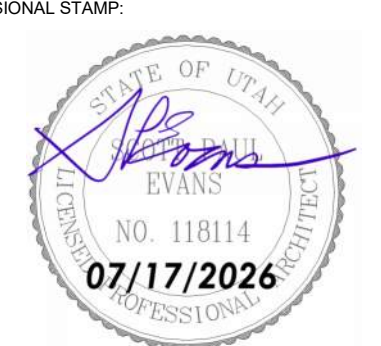
- EXISTING STRUCTURES TO REMAIN. PROTECT ALL EXISTING STRUCTURES FROM DAMAGE DURING CONSTRUCTION. REFER TO CIVIL DRAWINGS.
- EXTG. POND TO REMAIN - PROTECT FROM DAMAGE.
- EXISTING CONCRETE APRON AND BOLLARDS TO REMAIN. PROTECT FROM DAMAGE.
- EXISTING PROPANE TANKS TO REMAIN. REFER TO CIVIL DRAWINGS. PROTECT FROM DAMAGE.
- EXISTING FUELING STATION SHALL BE REMOVED PRIOR TO THE START OF THIS PROJECT.
- EXISTING CHAIN LINK FENCING AND GATES TO REMAIN. PROTECT FROM DAMAGE.
- EXISTING FIRE HYDRANT TO REMAIN. PROTECT FROM DAMAGE.
- PROVIDE & INSTALL NEW 6" DIAMETER EXTRA-STRONG STEEL PIPE BOLLARD FILLED WITH CONCRETE. PROVIDE DECORATIVE/PROTECTIVE BOLLARD SLEEVE OVER STEEL POST. SLEEVE SHALL BE UV-RESISTANT, IMPACT-RESISTANT, AND SUITABLE FOR EXTERIOR APPLICATIONS. COLOR AS SELECTED BY ARCHITECT. REFER TO DETAIL C1/AE-501 AND SPECIFICATIONS.
- SAWCUT AND REMOVE EXISTING ASPHALT AS REQUIRED TO PROVIDE A CLEAN EDGE FOR NEW ASPHALT PAVING. REMOVE EXISTING PARKING STRIPING AS REQUIRED. REFER TO CIVIL DRAWINGS.
- EXISTING ASPHALT PAVING TO REMAIN. PROTECT FROM DAMAGE. MODIFY AS REQUIRED FOR INSTALLATION OF NEW UNDERGROUND UTILITIES. REFER TO CIVIL AND ELECTRICAL DRAWINGS.
- PROVIDE NEW ASPHALT PAVING. REFER TO CIVIL DRAWINGS AND SPECIFICATIONS.
- 6" THICK CONCRETE APRON ON 6.5" GRAVEL BASE. SLOPE AWAY FROM BUILDING. PROVIDE CONTROL JOINTS AS INDICATED. REFER TO CIVIL DRAWINGS, DETAIL A5/AE-501 AND SPECIFICATIONS & GEO-TECH REPORT.
- EXISTING POWER POLE TO REMAIN. PROTECT FROM DAMAGE. REFER TO ELECTRICAL DRAWINGS.
- EXISTING OVERHEAD POWER LINE TO REMAIN. PROTECT FROM DAMAGE. REFER TO ELECTRICAL DRAWINGS.
- PROVIDE NEW UNDERGROUND POWER AND COMMUNICATION CONDUITS. SAWCUT AND REMOVE EXISTING ASPHALT AS REQUIRED. PATCH AND REPAIR ASPHALT TO MATCH EXISTING CONDITIONS. REFER TO CIVIL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS.
- PROVIDE NEW SANITARY SEWER PIPING, OIL/SAND/SEDIMENT INTERCEPTOR, AND CONNECTION TO EXISTING SANITARY SEWER SYSTEM. SAWCUT AND REMOVE EXISTING ASPHALT AS REQUIRED. PATCH AND REPAIR ASPHALT TO MATCH EXISTING CONDITIONS. REFER TO MECHANICAL AND CIVIL DRAWINGS AND SPECIFICATIONS.
- PROVIDE NEW UNDERGROUND WATER LINE FOR INTERIOR HOSE BIB. SAWCUT AND REMOVE EXISTING ASPHALT AS REQUIRED. PATCH AND REPAIR ASPHALT TO MATCH EXISTING CONDITIONS. REFER TO PLUMBING AND CIVIL DRAWINGS.
- PROVIDE NEW UNDERGROUND GAS SERVICE. SAWCUT AND REMOVE EXISTING ASPHALT AS REQUIRED. PATCH AND REPAIR ASPHALT TO MATCH EXISTING CONDITIONS. REFER TO PLUMBING AND CIVIL DRAWINGS.
- PROVIDE STANDING SEAM METAL ROOFING SYSTEM WITH THERMAL BLOCK. FLASH ALL ROOF PENETRATIONS IN ACCORDANCE WITH DETAIL A2/AE-502. REFER TO WALL SECTIONS. PROVIDE SNOW RETENTION BARS UPSLOPE OF ALL ROOF PENETRATIONS, FLUES, VENTS, CURBS, AND ROOF-MOUNTED EQUIPMENT. COORDINATE INSTALLATION WITH THE ROOFING MANUFACTURER. REFER TO SPECIFICATIONS.
- PROVIDE TWO ROWS OF CLAMP-ON TYPE SNOW GUARD SYSTEM. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. REFER TO EXTERIOR ELEVATIONS AND SPECIFICATIONS.
- PROVIDE & INSTALL NEW PREFINISHED METAL GUTTERS AND DOWNSPOUTS. REFER TO DETAILS C2/AE-501 AND C3/AE-501.
- EXISTING UNDERGROUND UTILITIES TO REMAIN. PROTECT FROM DAMAGE. REFER TO CIVIL DRAWINGS.
- EXISTING ROADWAY TO REMAIN. PROTECT FROM DAMAGE.
- EXISTING SITE GRADING, VEGETATION, AND OTHER SITE FEATURES TO REMAIN. MODIFY ONLY AS REQUIRED TO CONSTRUCT THE NEW WORK. PROTECT ALL AREAS TO REMAIN FROM DAMAGE. REFER TO CIVIL DRAWINGS.
- REMOVE EXISTING PARKING STALL STRIPING AS REQUIRED. RELOCATE PARKING STALLS AS SHOWN ON THE DRAWINGS. REFER TO CIVIL DRAWINGS AND SPECIFICATIONS.
- PROVIDE NEW ADA PARKING STALL, ACCESS AISLE, WHEELCHAIR SYMBOL, AND ALL REQUIRED PAVEMENT MARKINGS AS SHOWN. REFER TO CIVIL DRAWINGS AND SPECIFICATIONS. FURNISH AND INSTALL (1) PRECAST CONCRETE WHEEL STOP (WHEEL CHOCK), 6 FEET LONG, WITH GALVANIZED STEEL ANCHOR PINS, CENTERED AT THE HEAD OF THE ADA PARKING STALL. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- PROVIDE STRIPING FOR EIGHT (8) NEW PARKING STALLS AS SHOWN. REFER TO CIVIL DRAWINGS AND SPECIFICATIONS.
- NEW CONCRETE WATERWAY. REFER TO CIVIL DRAWINGS.
- NEW TRAFFIC RATED IN-GRADE ELECTRICAL PULL BOX. SAWCUT AND REMOVE EXISTING ASPHALT AS REQUIRED. PATCH AND REPAIR ASPHALT TO MATCH EXISTING CONDITIONS. REFER TO ELECTRICAL AND CIVIL DRAWINGS.



A4 OVERALL SITE PLAN
1" = 60'-0"



SPE ARCHITECTS
P.O. Box 517
Kaysville, Utah 84037
1.801.238.1368
info@spe-architect.com
www.spe-architect.com



PROJECT NAME:

**UDOT BRIGHAM CITY
TOW PLOW STORAGE BUILDING**

1325 POWER PLANT ROAD
BRIGHAM CITY, UTAH 84302

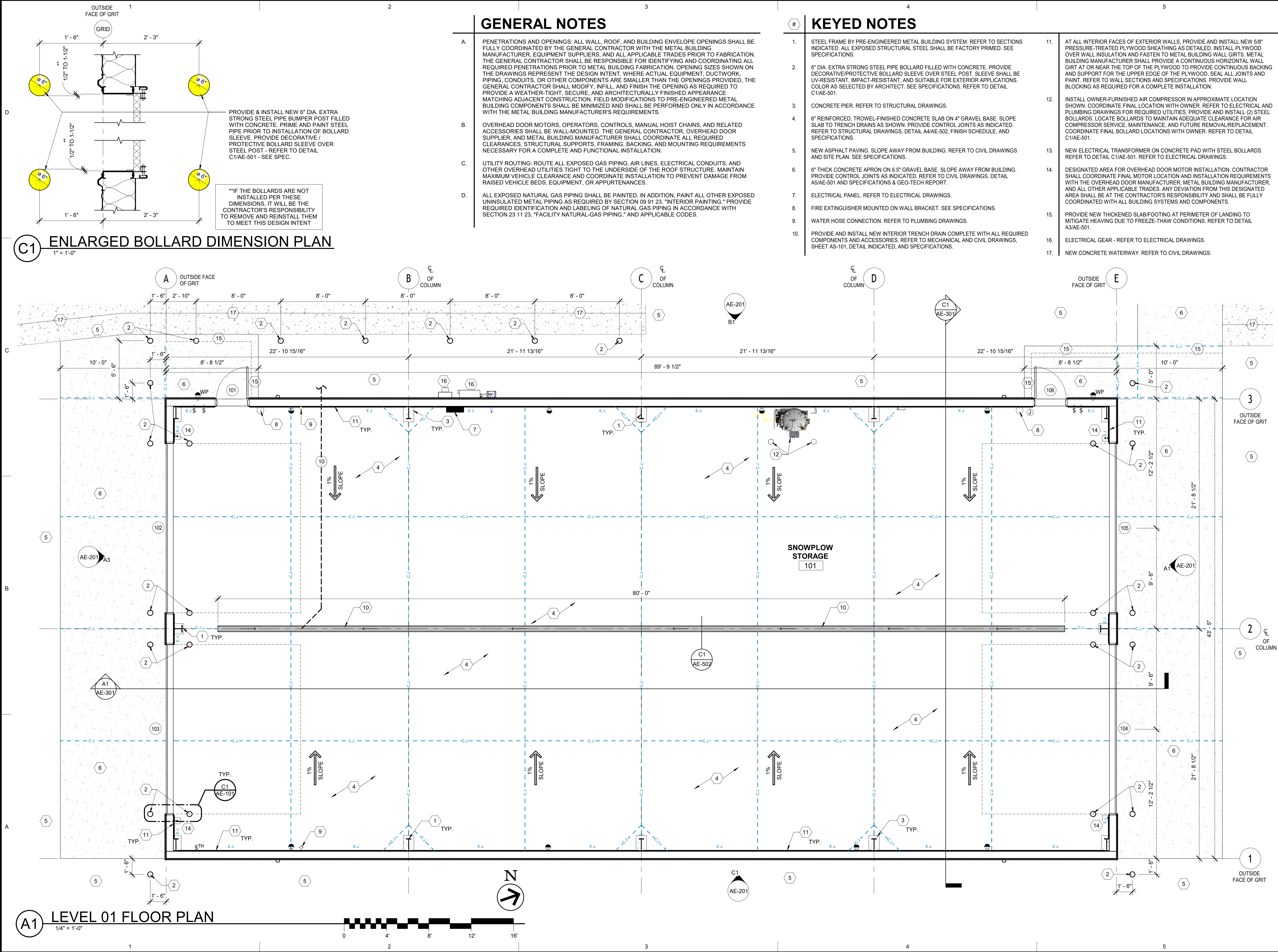
REVISIONS:
NO. DATE DESCRIPTION

NO.	DATE	DESCRIPTION
01	07/17/26	CONSTRUCTION BID SET

OWNER PROJECT #: 26381900
SPE PROJECT #: 26-18
DRAWN BY: JBE
CHECKED BY: SPE
DESIGNED BY: JBE
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SHEET TITLE:
**SITE PLAN / ROOF
PLAN**

SHEET NUMBER:
AS-101



GENERAL NOTES

- A. PENETRATIONS AND OPENINGS: ALL WALL, ROOF, AND BUILDING ENVELOPE OPENINGS SHALL BE FULLY COORDINATED BY THE GENERAL CONTRACTOR WITH THE METAL BUILDING MANUFACTURER, EQUIPMENT SUPPLIERS, AND ALL APPLICABLE TRADES PRIOR TO FABRICATION. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING AND COORDINATING ALL REQUIRED PENETRATIONS PRIOR TO METAL BUILDING FABRICATION. OPENING SIZES SHOWN ON THE DRAWINGS REPRESENT THE DESIGN INTENT. WHERE ACTUAL EQUIPMENT, DUCTWORK, PIPING, CONDUITS, OR OTHER COMPONENTS ARE SMALLER THAN THE OPENINGS PROVIDED, THE GENERAL CONTRACTOR SHALL MODIFY, INFILL, AND FINISH THE OPENING AS REQUIRED TO PROVIDE A WEATHER-TIGHT, SECURE, AND ARCHITECTURALLY FINISHED APPEARANCE MATCHING ADJACENT CONSTRUCTION. FIELD MODIFICATIONS TO PRE-ENGINEERED METAL BUILDING COMPONENTS SHALL BE MINIMIZED AND SHALL BE PERFORMED ONLY IN ACCORDANCE WITH THE METAL BUILDING MANUFACTURER'S REQUIREMENTS.
- B. OVERHEAD DOOR MOTORS, OPERATORS, CONTROLS, MANUAL HOIST CHAINS, AND RELATED ACCESSORIES SHALL BE WALL-MOUNTED. THE GENERAL CONTRACTOR, OVERHEAD DOOR SUPPLIER, AND METAL BUILDING MANUFACTURER SHALL COORDINATE ALL REQUIRED CLEARANCES, STRUCTURAL SUPPORTS, FRAMING, BACKING, AND MOUNTING REQUIREMENTS NECESSARY FOR A COMPLETE AND FUNCTIONAL INSTALLATION.
- C. UTILITY ROUTING: ROUTE ALL EXPOSED GAS PIPING, AIR LINES, ELECTRICAL CONDUITS, AND OTHER OVERHEAD UTILITIES TIGHT TO THE UNDERSIDE OF THE ROOF STRUCTURE. MAINTAIN MAXIMUM VEHICLE CLEARANCE AND COORDINATE INSTALLATION TO PREVENT DAMAGE FROM RAISED VEHICLE BEDS, EQUIPMENT, OR APPURTENANCES.
- D. ALL EXPOSED NATURAL GAS PIPING SHALL BE PAINTED. IN ADDITION, PAINT ALL OTHER EXPOSED UNINSULATED METAL PIPING AS REQUIRED BY SECTION 09 91 23, "INTERIOR PAINTING." PROVIDE REQUIRED IDENTIFICATION AND LABELING OF NATURAL GAS PIPING IN ACCORDANCE WITH SECTION 23 11 23, "FACILITY NATURAL-GAS PIPING," AND APPLICABLE CODES.

KEYED NOTES

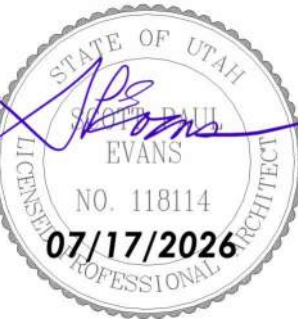
1. METAL BUILDING PURLINS AND STRUCTURAL MEMBERS SHALL BE FACTORY PRIMED. REFER TO SECTIONS INDICATED AND SPECIFICATIONS.
2. "SIMPLE SAVER" INSULATION SYSTEM (OR APPROVED EQUAL) WITH SEALED VAPOR BARRIER SYSTEM. REFER TO SECTIONS INDICATED AND SPECIFICATIONS.
3. PRE-FINISHED METAL RAIN GUTTER WITH DOWNSPOUTS - REFER TO DETAIL C2 & C3/AE-501.
4. GAS-FIRED UNIT HEATER. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS.
5. LIGHT FIXTURE. REFER TO ELECTRICAL DRAWINGS.
6. PROVIDE AND INSTALL NEW CEILING-MOUNTED, RETRACTABLE AIR COMPRESSOR HOSE REEL AT THE APPROXIMATE LOCATION SHOWN. COORDINATE FINAL LOCATION WITH STRUCTURAL MEMBERS, LIGHTING, AND ALL OTHER OVERHEAD BUILDING SYSTEMS. REFER TO MECHANICAL DRAWINGS.
7. DESIGNATED AREA FOR OVERHEAD DOOR MOTOR INSTALLATION. CONTRACTOR SHALL COORDINATE FINAL MOTOR LOCATION AND INSTALLATION REQUIREMENTS WITH THE OVERHEAD DOOR MANUFACTURER, METAL BUILDING MANUFACTURER, AND ALL OTHER APPLICABLE TRADES. ANY DEVIATION FROM THIS DESIGNATED AREA SHALL BE AT THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE FULLY COORDINATED WITH ALL BUILDING SYSTEMS AND COMPONENTS.

ARCHITECT'S INFORMATION:

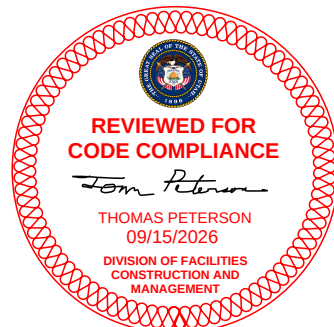


SPE ARCHITECTS
P.O. Box 517
Kaysville, Utah 84037
1.801.238.1368
info@spe-architect.com
www.spe-architect.com

PROFESSIONAL STAMP:



CODE OFFICIAL STAMP:



PROJECT NAME:

UDOT BRIGHAM CITY
TOW FLOW STORAGE BUILDING

1325 POWER PLANT ROAD
BRIGHAM CITY, UTAH 84302

REVISIONS:

NO. DATE DESCRIPTION

ISSUED:

NO.	DATE	DESCRIPTION
01	07/17/26	CONSTRUCTION BID SET

OWNER PROJECT #: 26381900
SPE PROJECT #: 26-18
DRAWN BY: JBE
CHECKED BY: SPE
DESIGNED BY: JBE

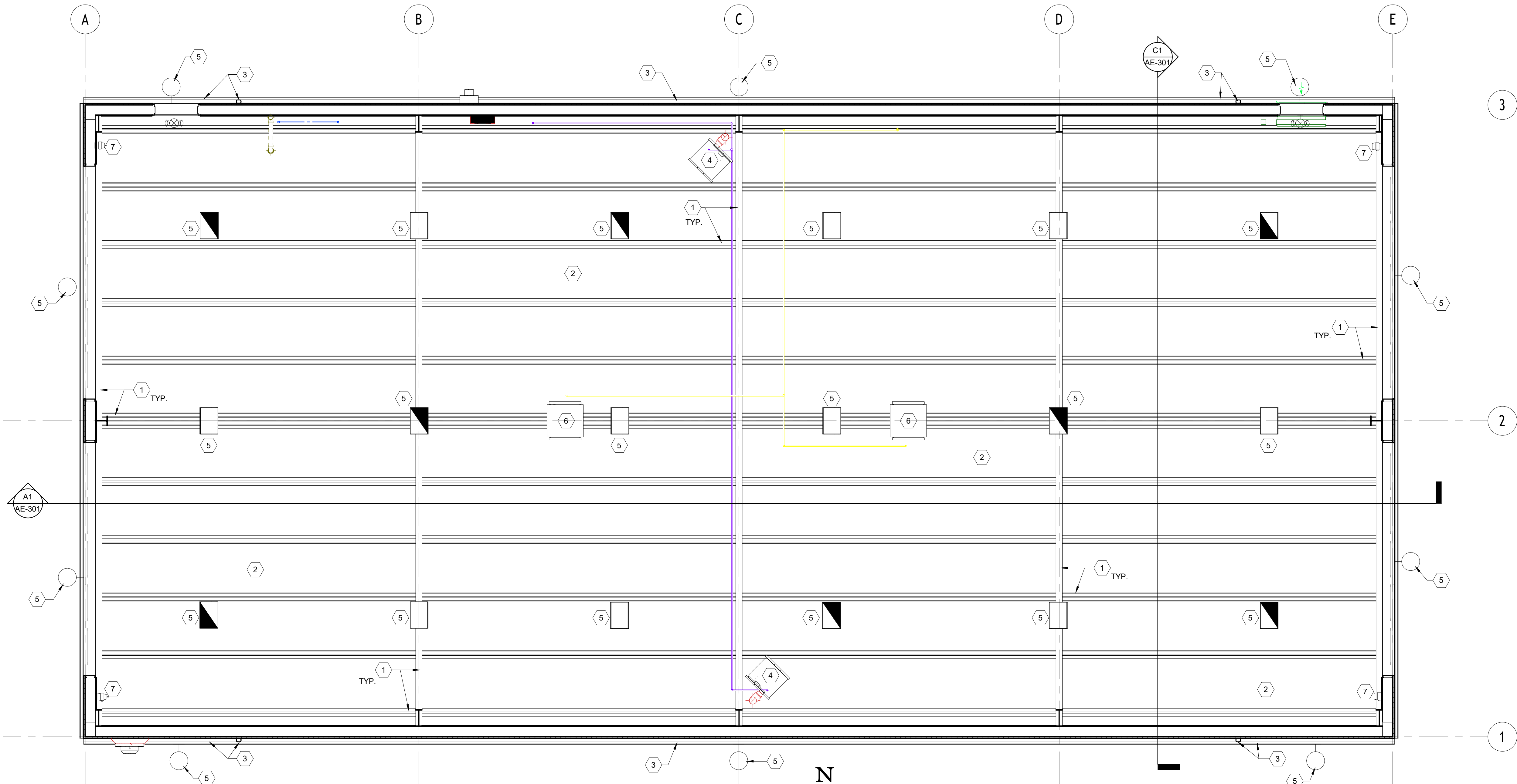
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SHEET TITLE:

REFLECTED
CEILING PLAN

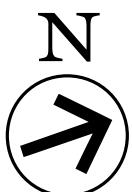
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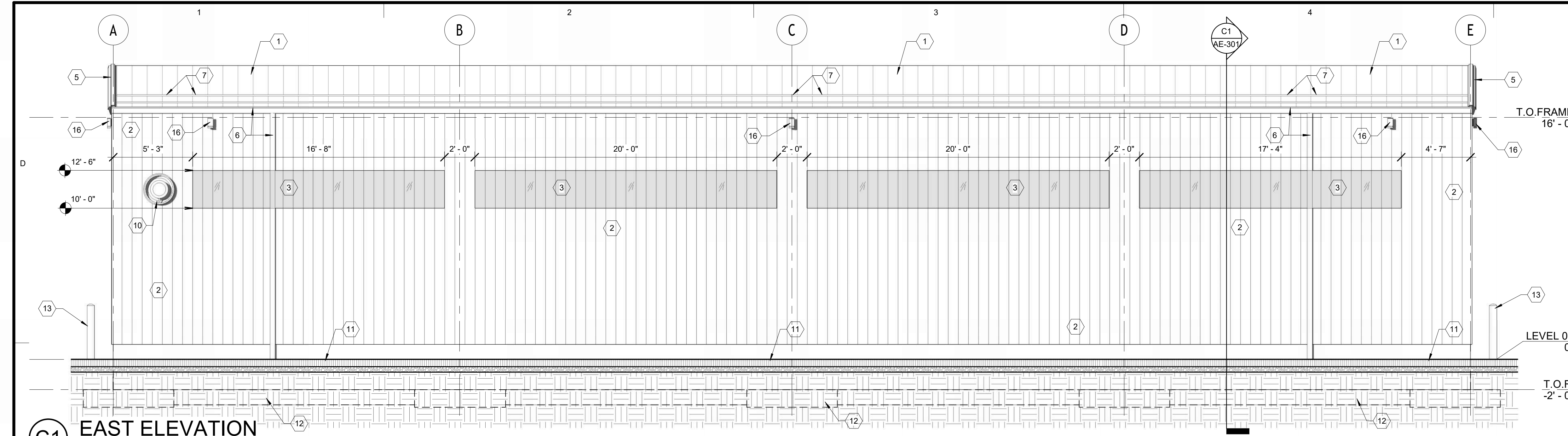
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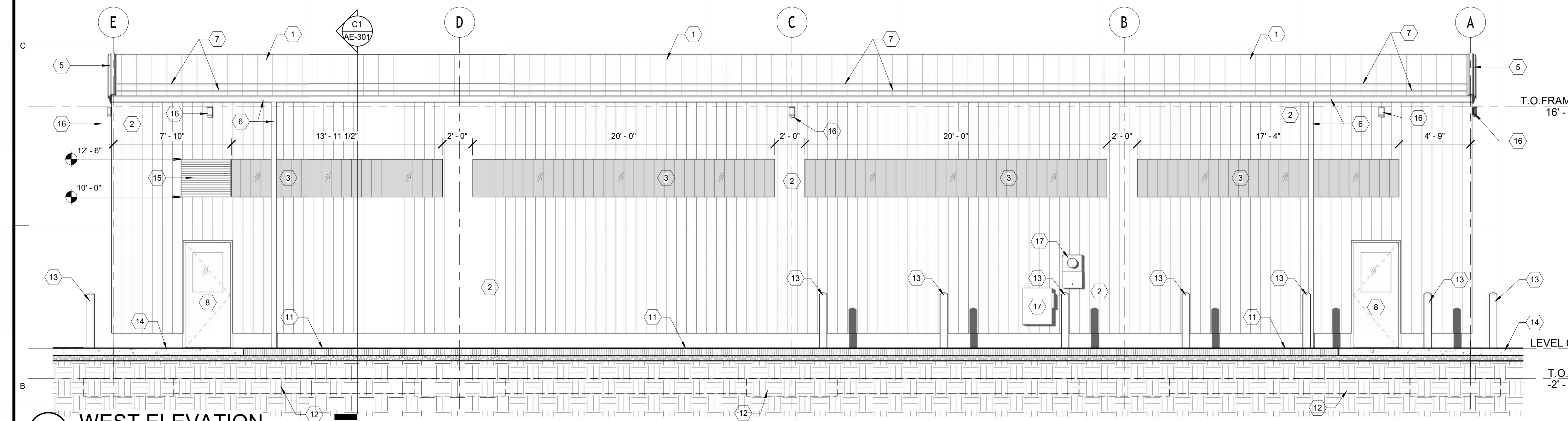
A1 LEVEL 01 REFLECTED CEILING PLAN

1/4" = 1'-0"

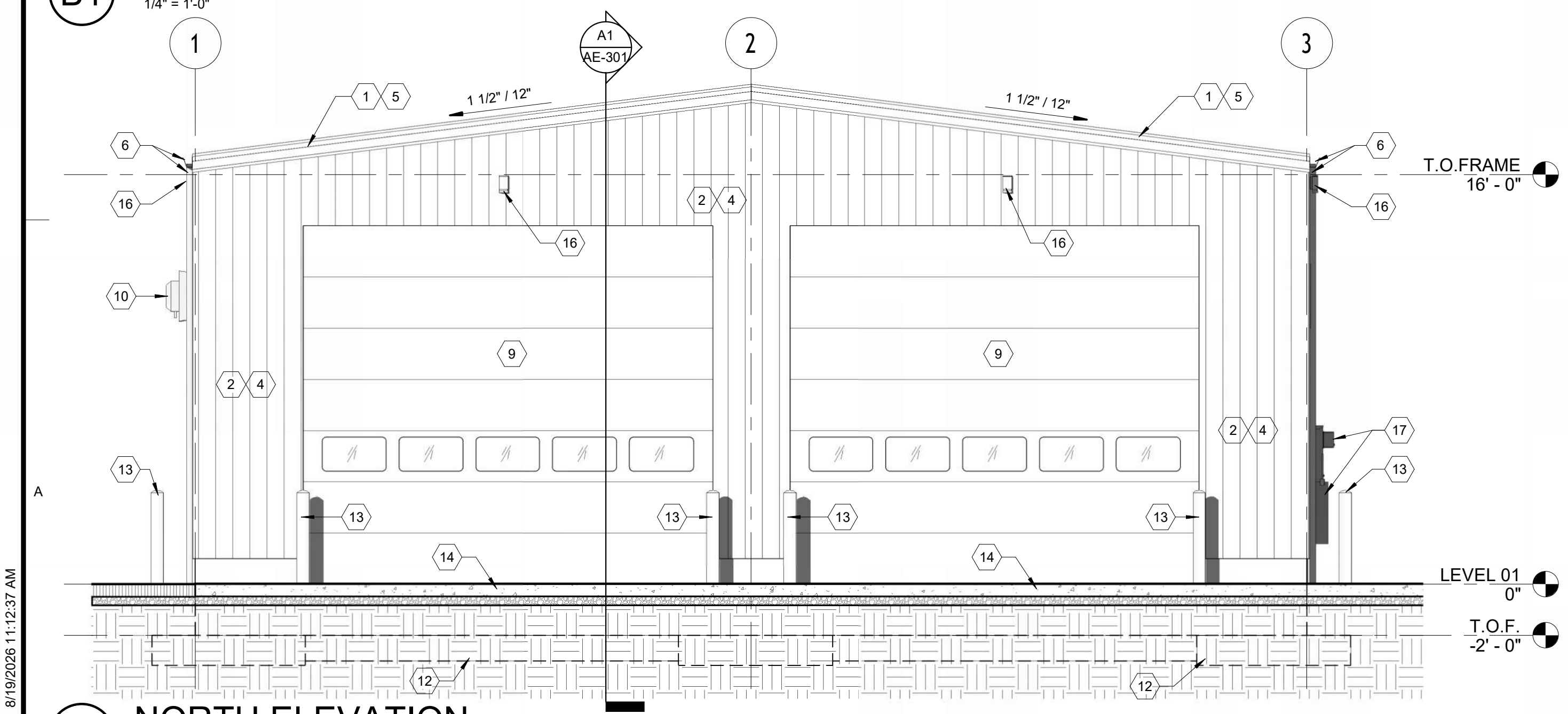




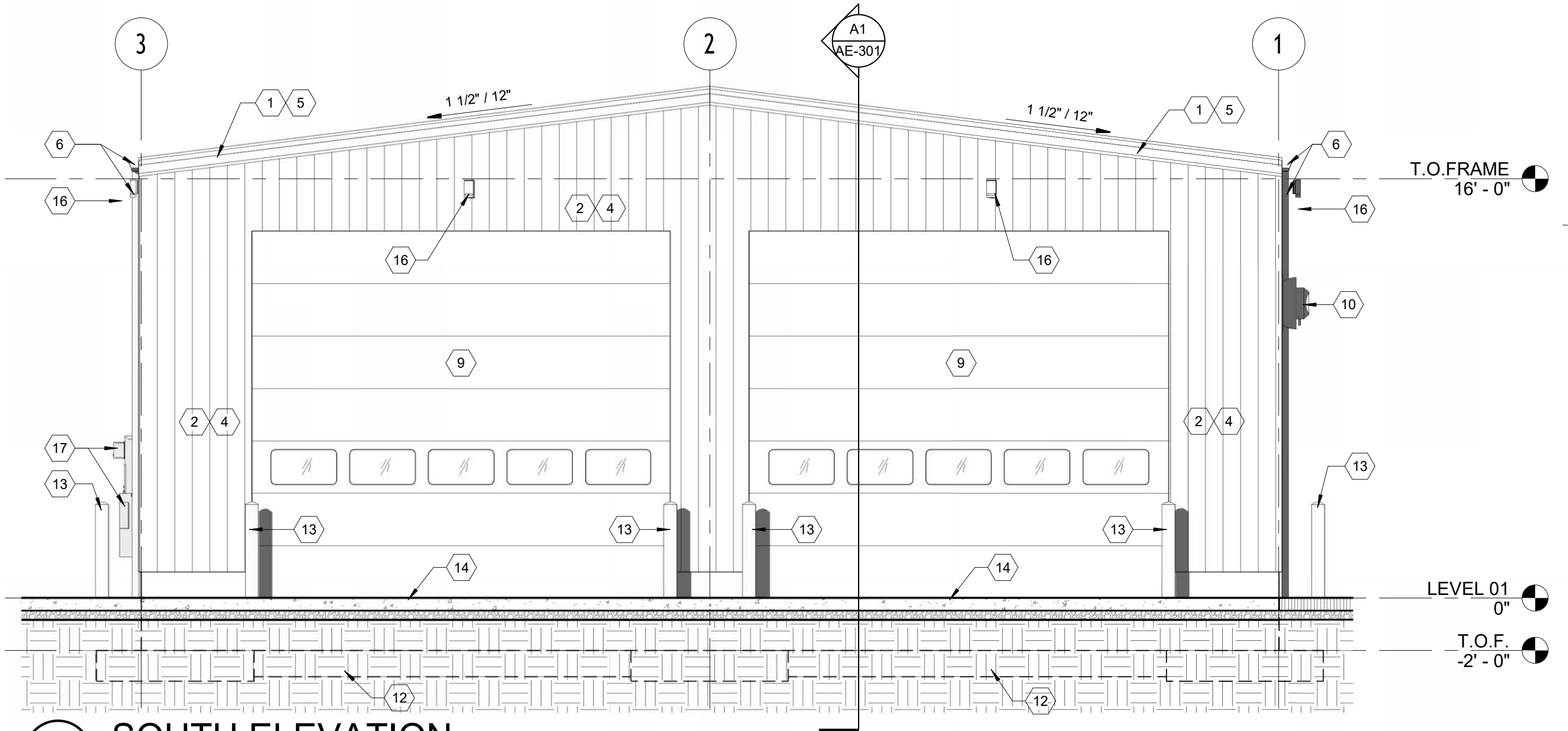
C1 EAST ELEVATION
1/4" = 1'-0"



B1 WEST ELEVATION
1/4" = 1'-0"



A1 NORTH ELEVATION
1/4" = 1'-0"



A3 SOUTH ELEVATION
1/4" = 1'-0"

- ### KEYED NOTES
- STANDING SEAM ROOFING SYSTEM W/ THERMAL BLOCK - SEE SPEC. - FLASH ALL PIPE PENETRATIONS PER DETAIL A2/AE-502 - REFER TO WALL SECTIONS - PROVIDE SNOW RETENTION BARS UPSLOPE OF ALL ROOF PENETRATIONS, FLUES, VENTS, CURBS, AND ROOF-MOUNTED EQUIPMENT. COORDINATE INSTALLATION WITH THE STANDING SEAM ROOF MANUFACTURER. SEE SPECIFICATIONS.
 - PRE-FINISHED METAL "PBR" TYPE WALL PANEL SYSTEM - SEE SPEC.
 - TRANSLUCENT "PBR" TYPE WALL PANEL WINDOW SYSTEM - PROVIDE FRAMING AS REQUIRED - SEE SPEC.
 - NON-EXPANDABLE METAL BUILDING END WALLS.
 - METAL RAKE TRIM TYPICAL - REFER TO DETAIL C4/AE-501 - SEE SPEC.
 - PROVIDE AND INSTALL PRE-FINISHED METAL RAIN GUTTERS AND DOWNSPOUTS. TERMINATE DOWNSPOUTS ON CONCRETE SPLASH BLOCKS. PROVIDE AND INSTALL SPLASH BLOCKS AT EACH DOWNSPOUT LOCATION. REFER TO DETAILS C2 & C3/AE-501.
 - PROVIDE & INSTALL NEW (2) ROWS OF "CLAMP-ON TYPE" SNOW GUARD SYSTEM - INSTALL PER MANUFACTURER'S RECOMMENDATIONS - SEE SPEC. - REFER TO AS-101.
 - MAN DOOR - REFER TO AE-101 & DOOR SCHEDULE & SPEC.
 - OVERHEAD DOORS - REFER TO AE-101 & DOOR SCHEDULE & SPEC.
 - WALL MOUNTED EXHAUST FAN - ALIGN THE FAN WITH THE TRANSLUCENT WALL PANELS AS SHOWN - REFER TO MECHANICAL & ELECTRICAL DRAWINGS.
 - NEW ASPHALT SLOPE AWAY FROM BUILDING - SEE CIVIL DRAWINGS - SEE SPEC.
 - CONCRETE FOOTING & FOUNDATION WALL - REFER STRUCTURAL DRAWINGS.
 - 6" DIA. EXTRA STRONG STEEL PIPE BOLLARD FILLED WITH CONCRETE. PROVIDE DECORATIVE/PROTECTIVE BOLLARD SLEEVE OVER STEEL POST. SLEEVE SHALL BE UV-RESISTANT, IMPACT-RESISTANT, AND SUITABLE FOR EXTERIOR APPLICATIONS. COLOR AS SELECTED BY ARCHITECT. SEE SPECIFICATIONS. REFER TO DETAIL C1/AE-501.
 - 6" THICK CONCRETE APRON ON 6.5" GRAVEL BASE - SLOPE AWAY FROM BUILDING - REFER TO CIVIL DRAWINGS. REFER TO AE-101 FOR JOINT LAYOUT. SEE DETAIL A4/AE-502.
 - 2'-6" H X 3'-4" W WALL MOUNTED LOUVER - ALIGN THE LOUVER OVER THE MAN DOOR AND WITH THE TRANSLUCENT WALL PANELS AS SHOWN - REFER TO MECHANICAL & ELECTRICAL DRAWINGS.
 - EXTERIOR WALL PACK LIGHT FIXTURE - REFER TO ELECTRICAL DRAWINGS.
 - ELECTRICAL GEAR - REFER TO ELECTRICAL DRAWINGS.

ARCHITECT'S INFORMATION:

SPE ARCHITECTS
P.O. Box 517
Kaysville, Utah 84037
1.801.238.1368
info@spe-architect.com
www.spe-architect.com

PROFESSIONAL STAMP:

CODE OFFICIAL STAMP:

PROJECT NAME:

**UDOT BRIGHAM CITY
TOW PLOW STORAGE BUILDING**

1325 POWER PLANT ROAD
BRIGHAM CITY, UTAH 84302

REVISIONS:

NO.	DATE	DESCRIPTION
01	07/17/26	CONSTRUCTION BID SET

ISSUED:

NO.	DATE	DESCRIPTION
01	07/17/26	CONSTRUCTION BID SET

OWNER PROJECT #:

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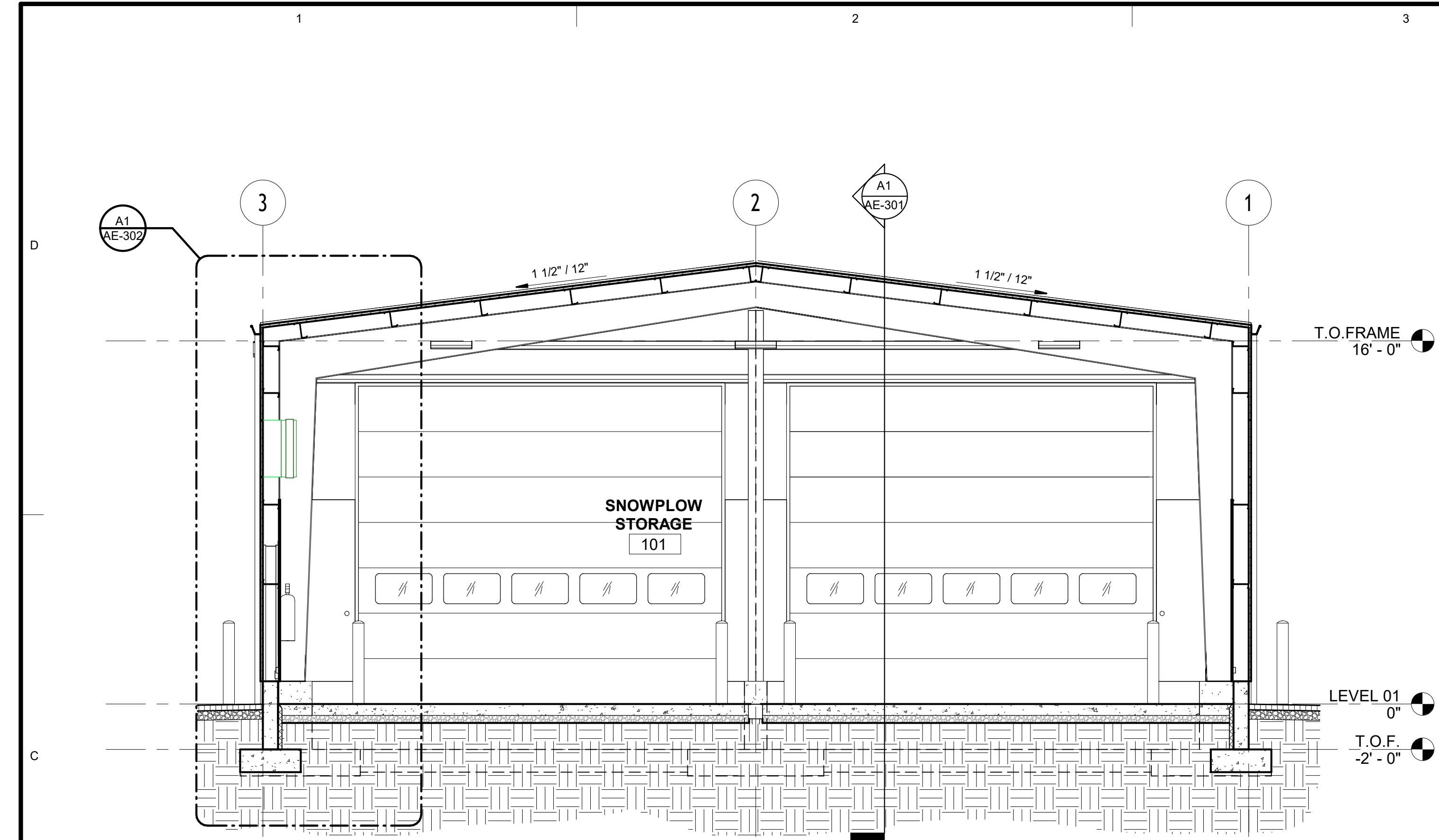
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**EXTERIOR
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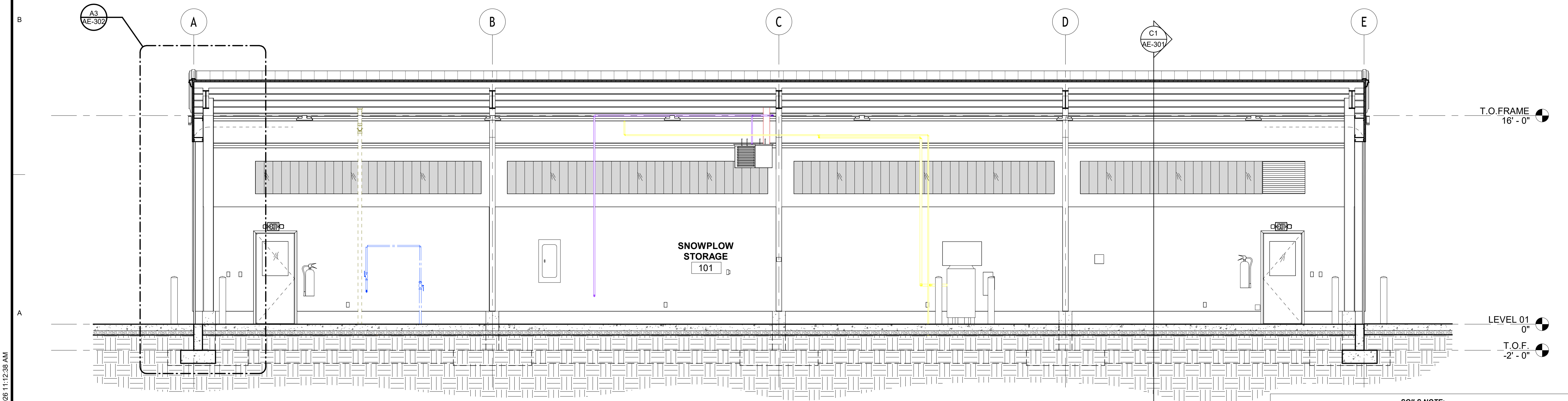
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C1 BUILDING SECTION
1/4" = 1'-0"

SOILS NOTE:
REFER TO STRUCTURAL DRAWINGS & GEOTECHNICAL INVESTIGATION FOR
STRUCTURAL FILL REQUIREMENTS - FULLY COORDINATE WITH THE GEOTECHNICAL
INVESTIGATION REPORT FOUND IN DIVISION 2 OF THE SPECIFICATION

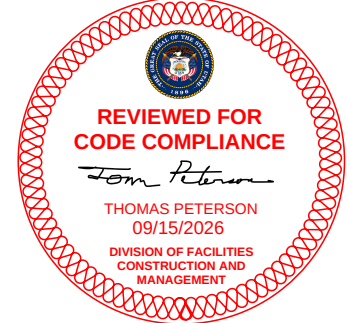
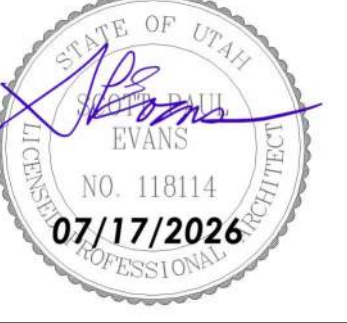


A1 BUILDING SECTION
1/4" = 1'-0"

SOILS NOTE:
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SPE ARCHITECTS
P.O. Box 517
Kaysville, Utah 84037
T 801.238.1368
info@spe-architect.com
www.spe-architect.com



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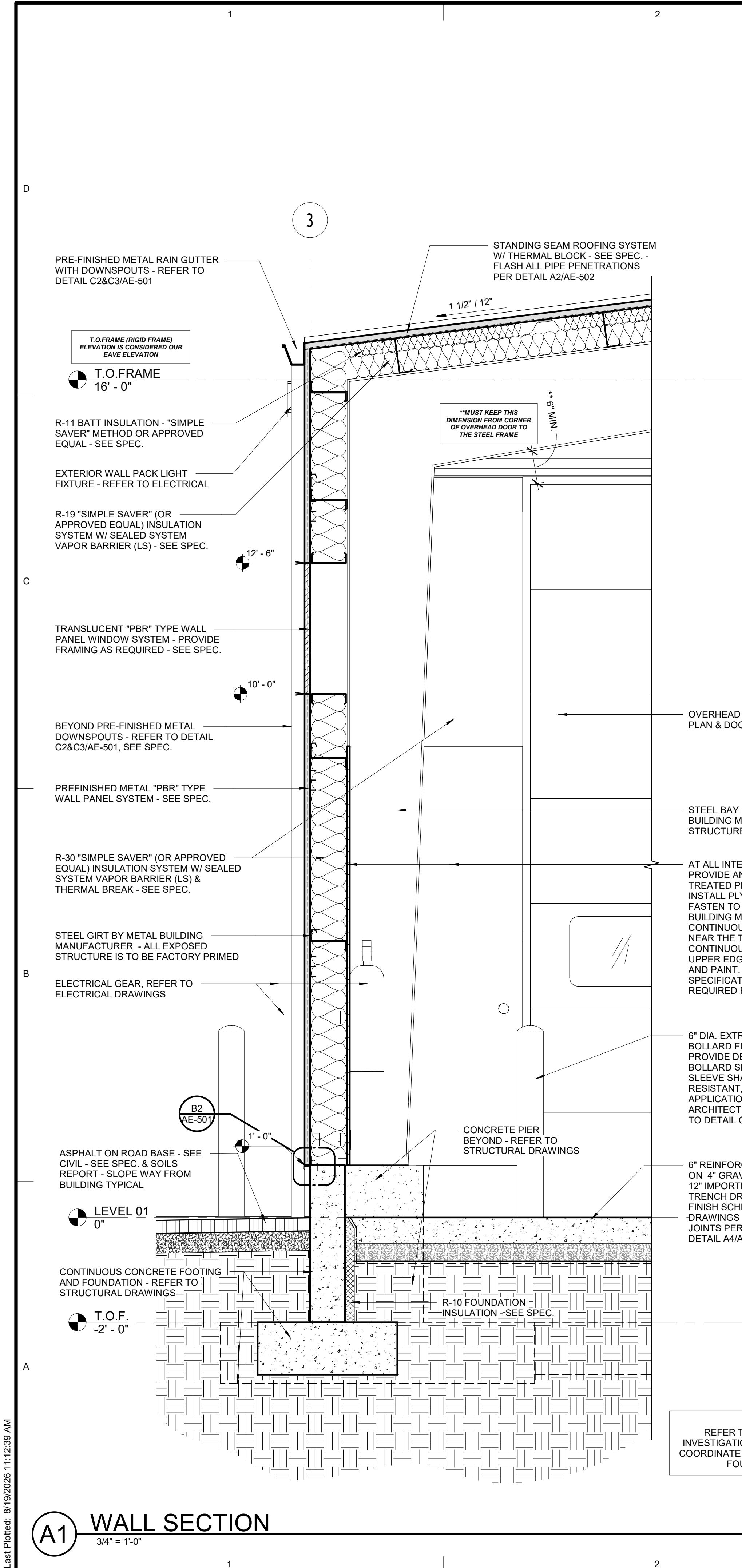
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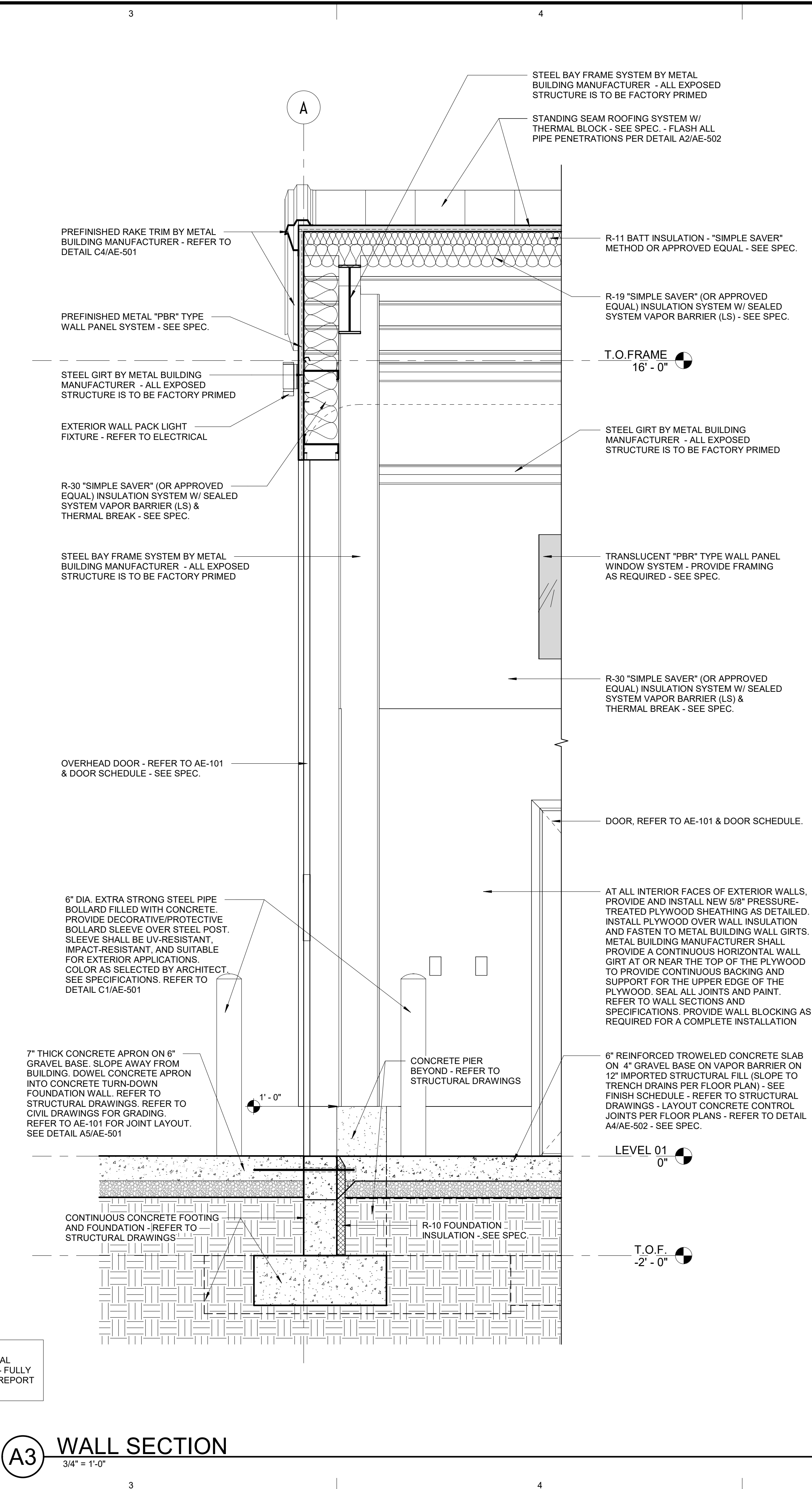
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BUILDING SECTIONS

SHEET NUMBER:
AE-301

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ARCHITECT'S INFORMATION:

SPE ARCHITECTS
P.O. Box 517
Kaysville, Utah 84037
T 801.238.1368
info@spe-architect.com
www.spe-architect.com

PROFESSIONAL STAMP:

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TOW PLOW STORAGE BUILDING**

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BRIGHAM CITY, UTAH 84302

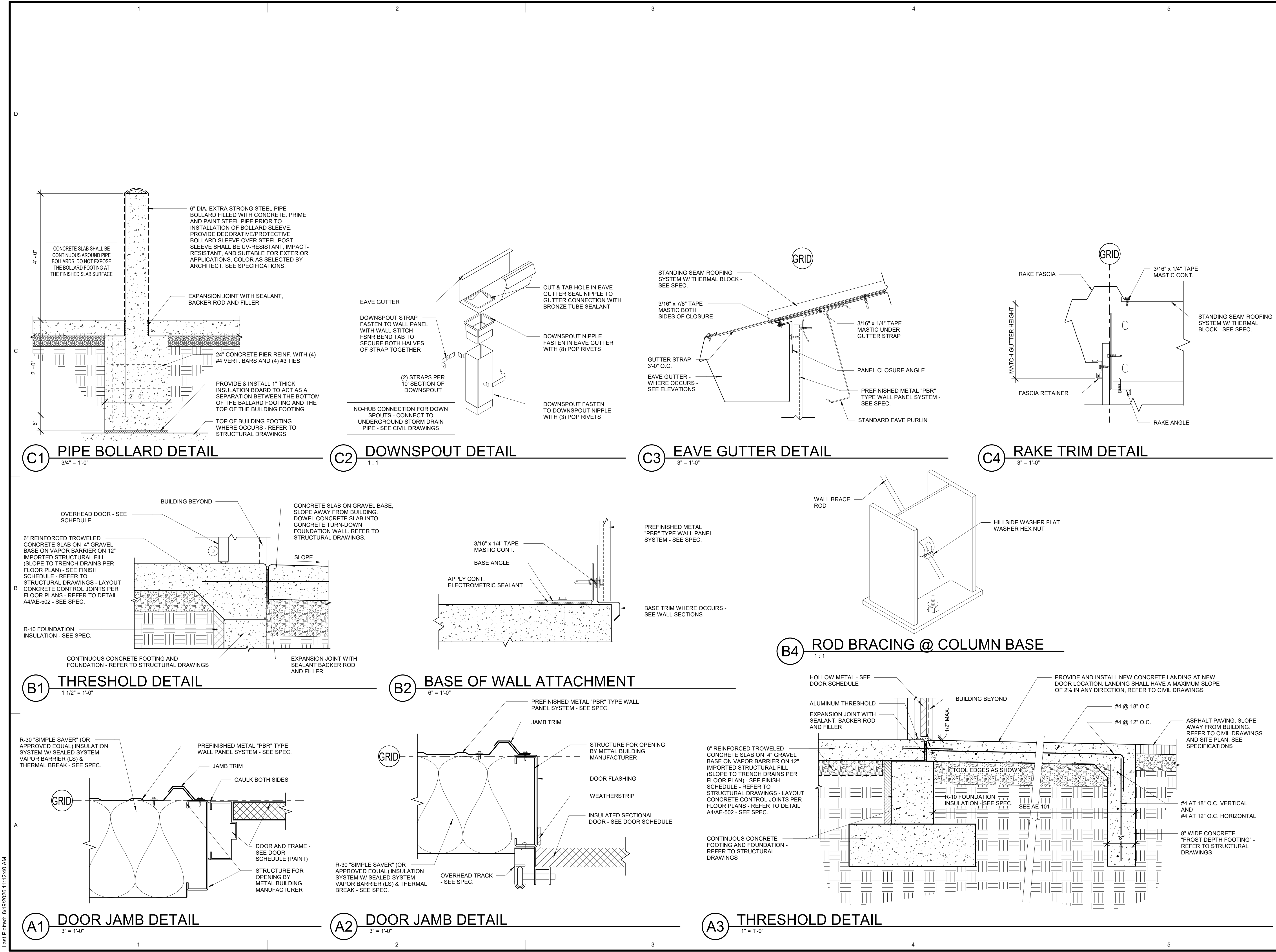
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SHEET TITLE:
WALL SECTIONS

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P.O. Box 517
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1.801.288.1368
info@spe-architect.com
www.spe-architect.com

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TOW PLOW STORAGE BUILDING**

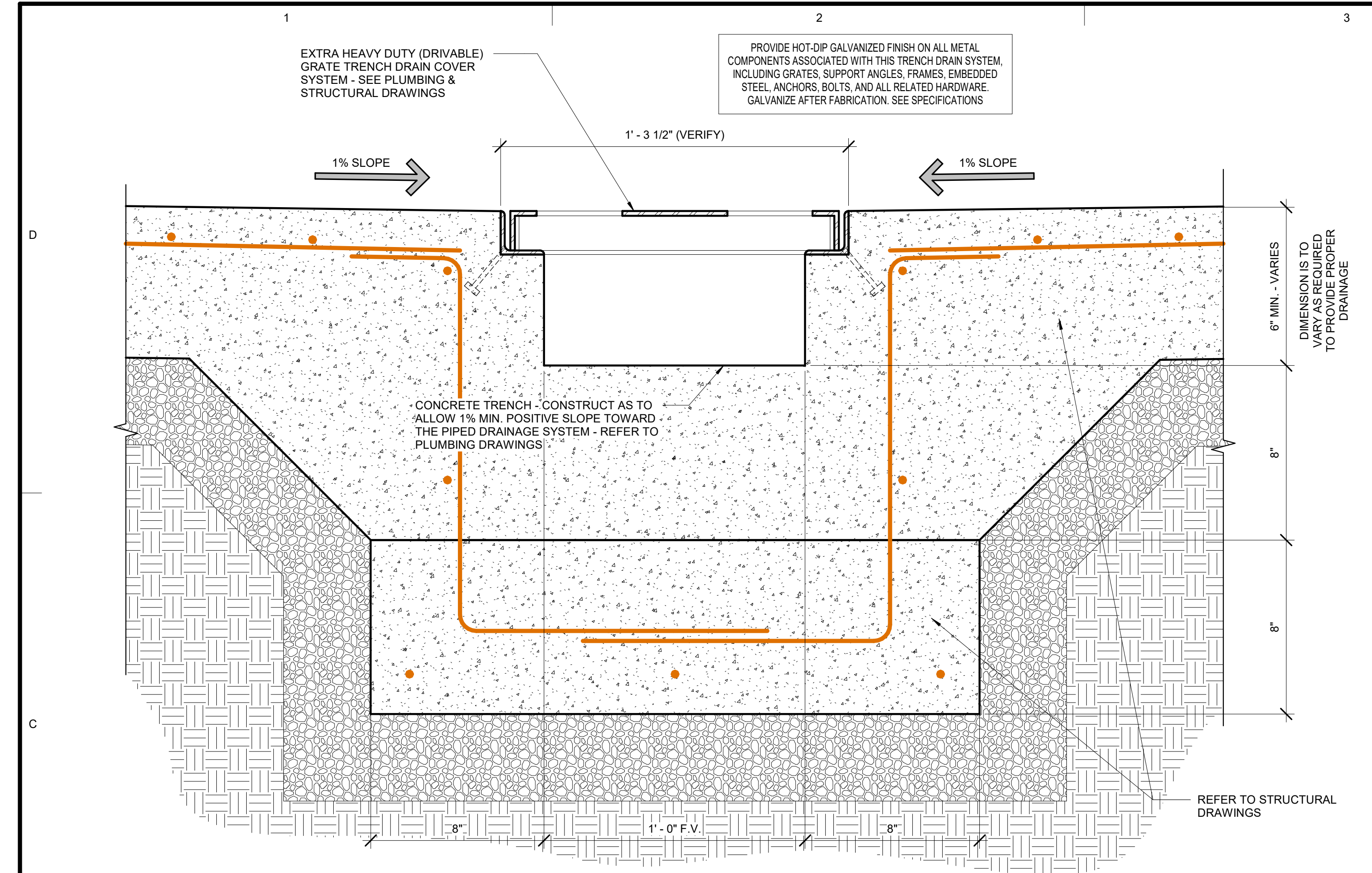
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SHEET TITLE: DETAILS	
SHEET NUMBER: AE-501	

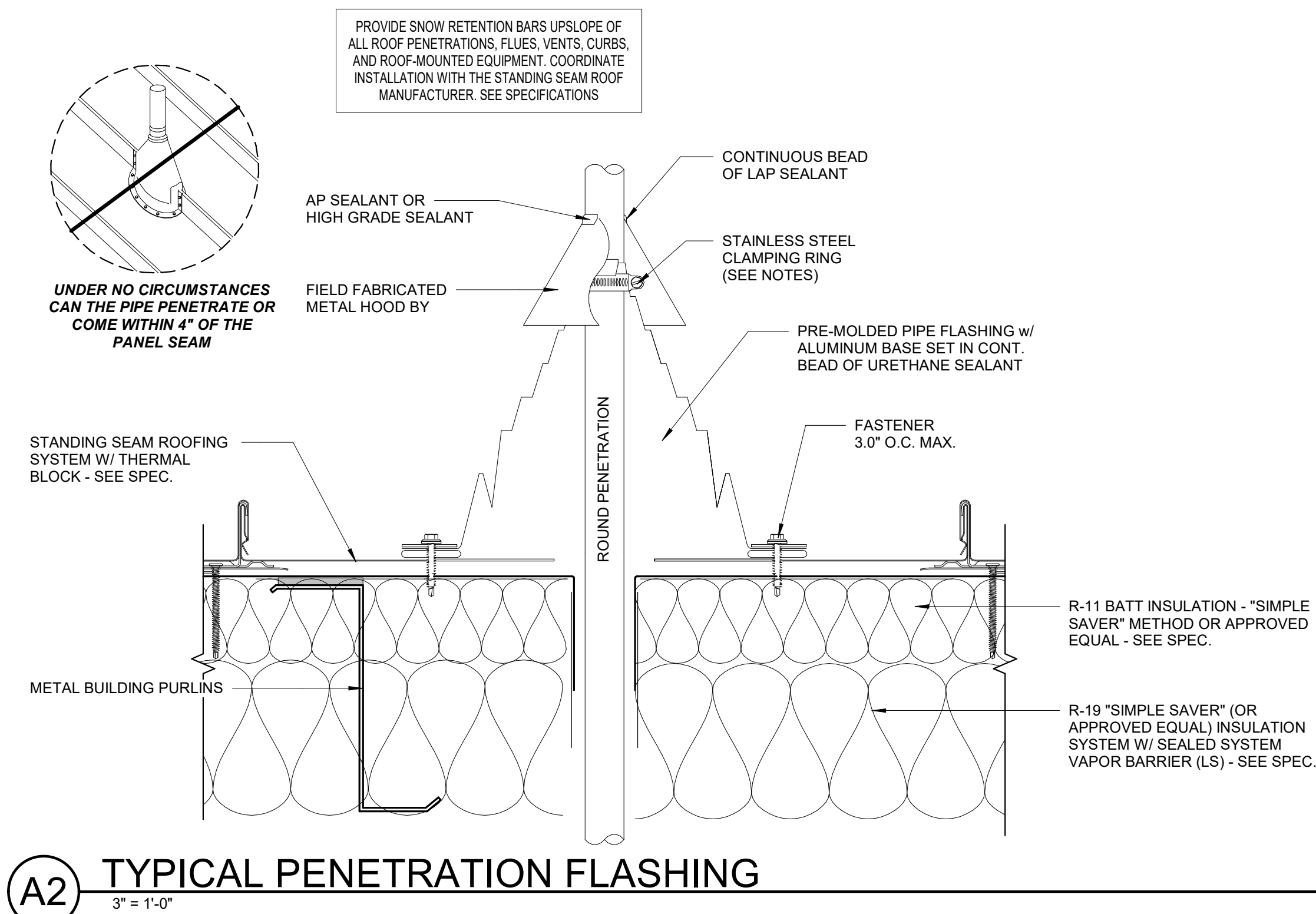
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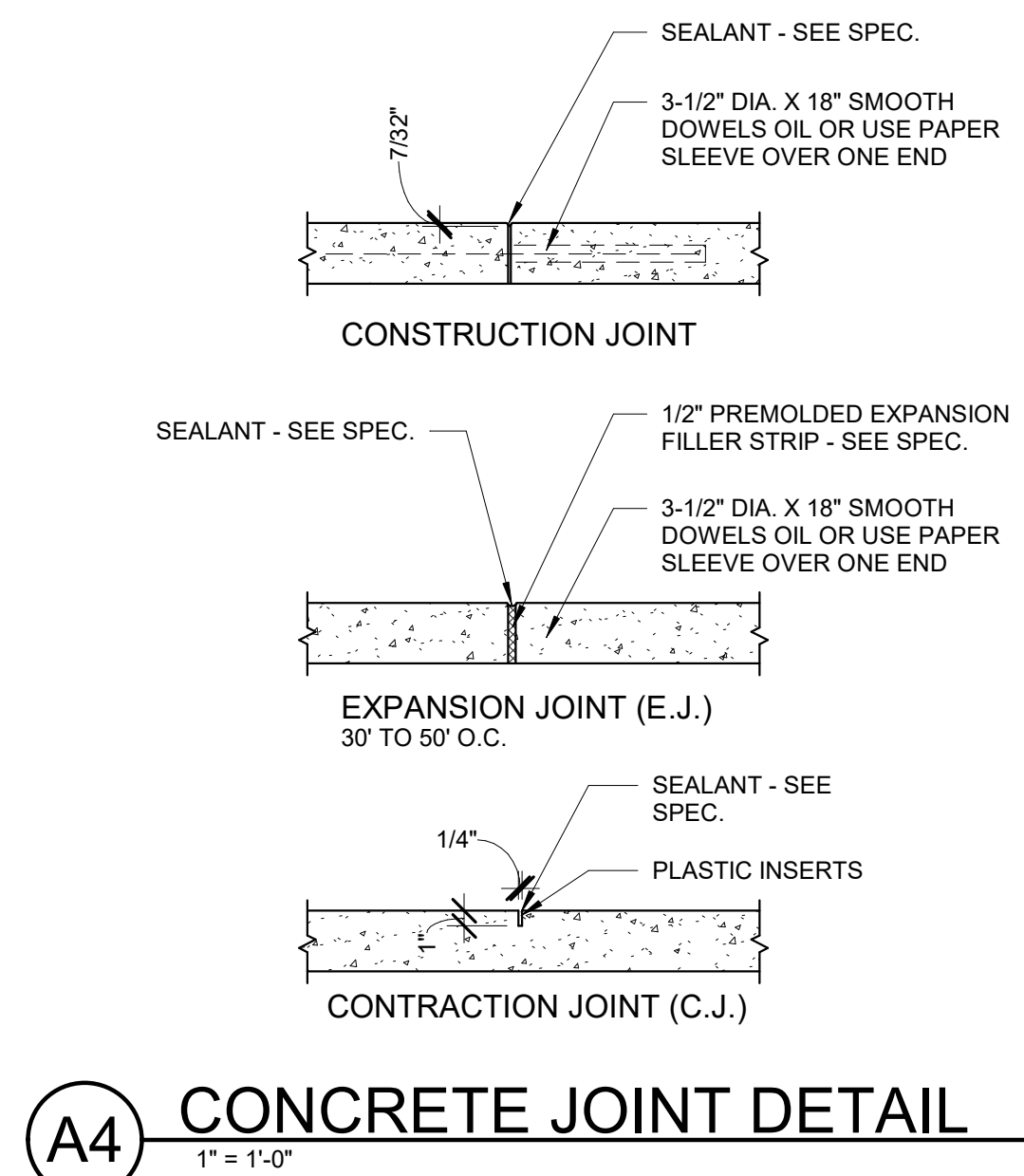
C1 TRENCH DRAIN DETAIL
3" = 1'-0"



A1 ROOF WARRANTY SIGN - DFCM
6" = 1'-0"



A2 TYPICAL PENETRATION FLASHING
3" = 1'-0"

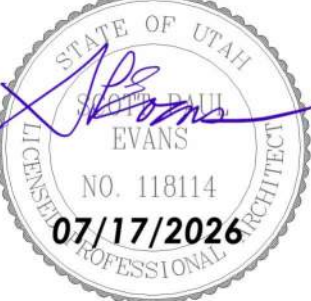


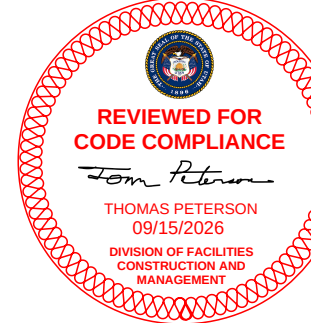
A4 CONCRETE JOINT DETAIL
1" = 1'-0"

ARCHITECT'S INFORMATION:



SPE ARCHITECTS
P.O. Box 517
Kaysville, Utah 84037
1.801.238.1368
info@spe-architect.com
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DETAILS

SHEET NUMBER:
AE-502

ROOM FINISH SCHEDULE

ROOM #	ROOM NAME	FLOOR FINISH	BASE	BASE FINISH	NORTH WALL MATERIAL	NORTH WALL FINISH	EAST WALL MATERIAL	EAST WALL FINISH	SOUTH WALL MATERIAL	SOUTH WALL FINISH	WEST WALL MATERIAL	WEST WALL FINISH	CEILING MATERIAL	CEILING FINISH	COMMENTS
101	SNOWPLOW STORAGE	*SEALED CONCRETE	NONE	NONE	FACED BATT INSULATION / PLYWOOD	NONE / PAINT	FACED BATT INSULATION / PLYWOOD	NONE / PAINT	FACED BATT INSULATION / PLYWOOD	NONE / PAINT	FACED BATT INSULATION / PLYWOOD	NONE / PAINT	FACED BATT INSULATION	NONE	*BASE BID: SEALED CONCRETE. ADD ALTERNATE 01: RESINOUS FLOORING. SEE SPECIFICATIONS.

DOOR SCHEDULE

DOOR #	DOOR		DOOR TYPE	DOOR			FIRE RATING	HARDWARE	FRAME			FRAME (L) JAMB DETAIL	FRAME (R) JAMB DETAIL	FRAME HEAD DETAIL	THRESHOLD DETAIL	COMMENTS
	WIDTH	HEIGHT		THICKNESS	MATERIAL	FINISH			TYPE	MATERIAL	FINISH					
101	3' - 0"	7' - 0"	B	1 3/4"	HOLLOW METAL	PAIN	NONE	1.0	A	HOLLOW METAL	PAIN	A1/AE-501	A1/AE-501	A1/AE-501 SIM.	A3/AE-501	MAN DOOR WITH ELECTRONIC KEYPAD & KEY OVERRIDE
102	16' - 0"	14' - 0"	A	1 1/2"	STEEL	PAIN	NONE	2.0	NONE	STEEL	PAIN	A2/AE-501	A2/AE-501	A2/AE-501 SIM.	B1/AE-501	PROVIDE (4) MULTI-BUTTON REMOTE TRANSMITTERS CAPABLE OF INDEPENDENTLY OPERATING ALL OVERHEAD DOORS. PROVIDE INTERIOR PUSH-BUTTON CONTROLS AND CHAIN OVERRIDE.
103	16' - 0"	14' - 0"	A	1 1/2"	STEEL	PAIN	NONE	2.0	NONE	STEEL	PAIN	A2/AE-501	A2/AE-501	A2/AE-501 SIM.	B1/AE-501	PROVIDE (4) MULTI-BUTTON REMOTE TRANSMITTERS CAPABLE OF INDEPENDENTLY OPERATING ALL OVERHEAD DOORS. PROVIDE INTERIOR PUSH-BUTTON CONTROLS AND CHAIN OVERRIDE.
104	16' - 0"	14' - 0"	A	1 1/2"	STEEL	PAIN	NONE	2.0	NONE	STEEL	PAIN	A2/AE-501	A2/AE-501	A2/AE-501 SIM.	B1/AE-501	PROVIDE (4) MULTI-BUTTON REMOTE TRANSMITTERS CAPABLE OF INDEPENDENTLY OPERATING ALL OVERHEAD DOORS. PROVIDE INTERIOR PUSH-BUTTON CONTROLS AND CHAIN OVERRIDE.
105	16' - 0"	14' - 0"	A	1 1/2"	STEEL	PAIN	NONE	2.0	NONE	STEEL	PAIN	A2/AE-501	A2/AE-501	A2/AE-501 SIM.	B1/AE-501	PROVIDE (4) MULTI-BUTTON REMOTE TRANSMITTERS CAPABLE OF INDEPENDENTLY OPERATING ALL OVERHEAD DOORS. PROVIDE INTERIOR PUSH-BUTTON CONTROLS AND CHAIN OVERRIDE.
106	3' - 0"	7' - 0"	B	1 3/4"	HOLLOW METAL	PAIN	NONE	1.0	A	HOLLOW METAL	PAIN	A1/AE-501	A1/AE-501	A1/AE-501 SIM.	A3/AE-501	MAN DOOR WITH ELECTRONIC KEYPAD & KEY OVERRIDE

TYPICAL ALL OVERHEAD DOORS: PROVIDE OPERATING OPENING AND CLOSING SPEED OF 8" TO 12" PER SECOND. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

GLASS SCHEDULE

#	
1.	TEMPERED 1" INSULATED UNIT - EXTERIOR LITE 1/4" CLEAR, 1/2" AIR SPACE, INTERIOR LITE 1/4" CLEAR FLOAT GLASS, LOW E COATING ON #3 SURFACE

INSULATED OVERHEAD DOOR W/ WINDOWS AS SHOWN - SEE SPEC.

6"

2' - 0"

6"

6"

6"

1

INSULATED HOLLOW METAL DOOR - PAINTED - SEE SPEC.

GLAZING - SEE GLASS SCHEDULE - SEE SPEC.

3' - 4"

2" TYP.

PAINTED HOLLOW METAL FRAME

7' - 2"

"A"

"B"

A1

DOOR TYPES

3/8" = 1'-0"

A3

DOOR FRAME TYPE

3/8" = 1'-0"

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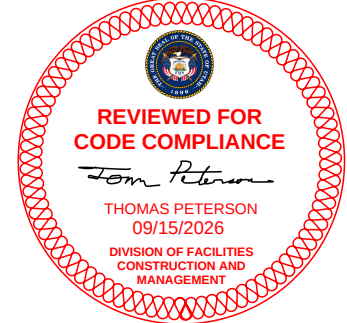


SPE ARCHITECTS
P.O. Box 517
Kaysville, Utah 84037
1 801.238.1368
info@spe-architect.com
www.spe-architect.com

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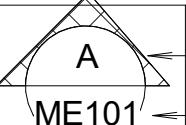
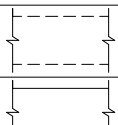
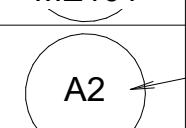
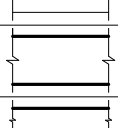
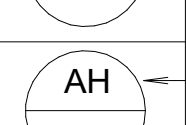
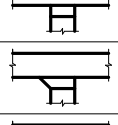
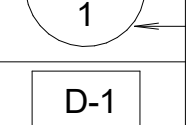
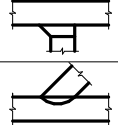
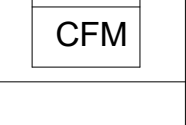
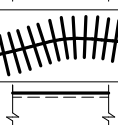
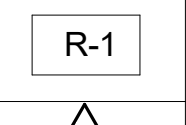
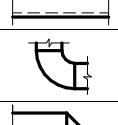
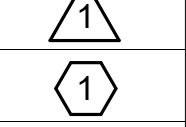
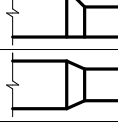
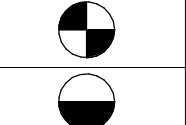
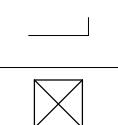
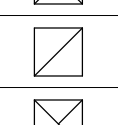
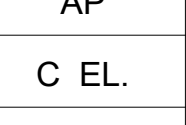
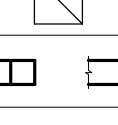
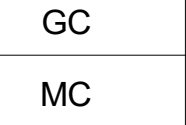
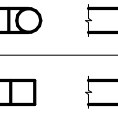
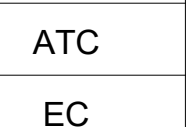
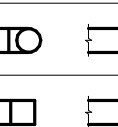
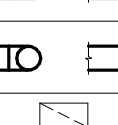
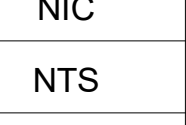
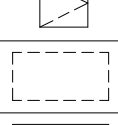
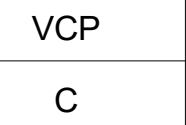
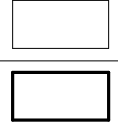
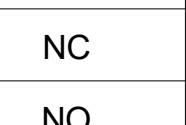
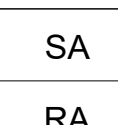
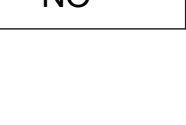
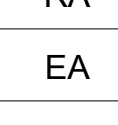
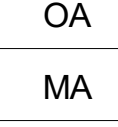
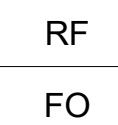
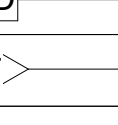
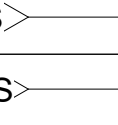
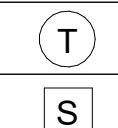
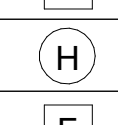
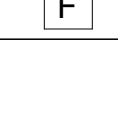
SCHEDULES

SHEET NUMBER:

AE-601

Last Plotted: 8/19/2026 11:12:41 AM

Last Printed: 8/25/2026 9:12:32 AM

MECHANICAL LEGEND					
SYMBOL	ABR.	DESCRIPTION	SYMBOL	ABR.	DESCRIPTION
GENERAL TERMINOLOGY			AIR SIDE		
		SECTION LETTER DESIGNATION			EXISTING AIR DUCT TO BE REMOVED
		SECTION DRAWN ON THIS SHEET			EXISTING AIR DUCT TO REMAIN
		DETAIL NUMBER DESIGNATION CORRESPONDING WITH GRID LOCATION			NEW AIR DUCT
		MECHANICAL EQUIPMENT DESIGNATION			RECT TO RECT AIR DUCT TAKE-OFF
		EQUIPMENT ITEM DESIGNATION			RECT TO RND AIR DUCT TAKE-OFF
		REGISTER, GRILLE OR DIFFUSER DESIGNATION WITH BALANCING CFM LISTED BELOW			RND TO RND AIR DUCT TAKE-OFF
		GRILLE OR LOUVER DESIGNATION WHERE BALANCING NOT REQUIRED			MEDIUM PRESSURE TAKE-OFF
		REVISION DESIGNATOR AND NUMBER			FLEXIBLE AIR DUCT
		KEY NOTE DESIGNATOR AND NUMBER			LINED DUCT
	POC	POINT OF CONNECTION			RADIUS ELBOW
	POR	POINT OF REMOVAL			ECCENTRIC DUCT TRANSITION
	AFF	ABOVE FINISHED FLOOR			CONCENTRIC DUCT TRANSITION
	AP	ACCESS PANEL			VOLUME DAMPER
	C EL.	CENTERLINE ELEVATION			SUPPLY AIR DIFFUSER
	GC	GENERAL CONTRACTOR			RETURN & TRANSFER AIR GRILLE
	MC	MECHANICAL CONTRACTOR			EXHAUST GRILLE OR CEILING EXH. FAN
	ATC	CONTROLS CONTRACTOR			RETURN & OUTSIDE AIR DUCT UP/DN
	EC	ELECTRICAL CONTRACTOR			RETURN & OA ROUND DUCT UP/DN
	FPC	FIRE PROTECTION CONTRACTOR			SUPPLY AIR DUCT UP/DN
	NIC	NOT IN CONTRACT			SUPPLY AIR ROUND DUCT UP/DN
	NTS	NOT TO SCALE			EXHAUST AIR DUCT UP/DN
	VCP	VITRIFIED CLAY PIPE			EXHAUST AIR ROUND DUCT UP/DN
	C	COMMON		AP	ACCESS PANEL
	NC	NORMALLY CLOSED			EXISTING EQUIPMENT TO BE REMOVED
	NO	NORMALLY OPEN			EXISTING EQUIPMENT TO REMAIN
					NEW EQUIPMENT
				SA	SUPPLY AIR
				RA	RETURN AIR
				EA	EXHAUST AIR
				OA	OUTSIDE AIR
				MA	MIXED AIR
				RF	RELIEF AIR
				FO	FLAT OVAL
				MVD	MOTORIZED VOLUME DAMPER
				BD	BACKDRAFT DAMPER
				FD	FIRE DAMPER
				SD	SMOKE DAMPER
				FS	FIRE & SMOKE DAMPER
				T-STAT	WALL MOUNTED THERMOSTAT
					WALL MOUNTED TEMP. SENSOR
				H-STAT	WALL MOUNTED HUMIDISTAT
				F-STAT	WALL MOUNTED FIRESTAT
					PUMP
					REGULATOR
					UNION
					MANUAL ACTUATOR
					PNUEMATIC DIAPHRAM ACTUATOR
					ELECTRIC MOTOR ACTUATOR
					SOLENOID ACTUATOR
					BUTTERFLY VALVE
					GATE VALVE
					GLOBE VALVE - STRAIGHT PATTERN
					GLOBE VALVE - ANGLE PATTERN
					MOTORIZED 2-WAY CONTROL VALVE
					MOTORIZED 3-WAY CONTROL VALVE
				PRV	PRESSURE REDUCING VALVE
					CHECK VALVE
					CIRCUIT BALANCING VALVE
					BALL VALVE
					PRESSURE RELIEF VALVE
					THERMAL RELIEF VALVE
					SAFETY RELIEF VALVE
					PLUG VALVE
					NEEDLE VALVE
					TRIPLE DUTY VALVE
					AUTOMATIC AIR VENT
					MANUAL AIR VENT
					STRAINER
					STRAINER W/ PLUG BLOW OFF
					VENTURI
					PRESSURE GAUGE W/ COCK - WATER
					PRESSURE GAUGE W/ COCK - STEAM
					THERMOMETER & THERMOWELL
					WATER TEMP SENSOR & THERMOWELL
					FLOW SWITCH
					PRESSURE SWITCH
					THERMOWELL
					PRESSURE & TEMP TAP
					INVERTED BUCKET STEAM TRAP
				TT	THERMOSTATIC STEAM TRAP
				F&T	FLOAT & THERMOSTATIC STEAM TRAP
					DIRECTION OF FLOW
					BACKFLOW PREVENTING VALVE

MECHANICAL AND PLUMBING SHEET SCHEDULE	
SHEET NUMBER	SHEET NAME
MG001	MECHANICAL LEGEND AND GENERAL NOTES
ME101	MECHANICAL FLOOR PLANS
ME601	MECHANICAL SCHEDULES AND DETAILS
PG001	PLUMBING LEGEND AND GENERAL NOTES
PE101	PLUMBING FLOOR PLANS
PE601	PLUMBING SCHEDULES AND DETAILS

GENERAL NOTES

G-1 - MECHANICAL INFORMATION IS NOT LIMITED TO THE MECHANICAL DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR INFORMATION OF THE EXISTING BUILDING AND SITE CONDITIONS, EXISTING PIPING, EXISTING ELECTRICAL, AND EXISTING SUPPORTS.

A - EACH DRAWING SHEET AND THE SPECIFICATIONS HAVE BEEN PREPARED TO SUPPLEMENT EACH OTHER AND THEY SHALL BE INTERPRETED AS AN INTEGRAL UNIT WITH ITEMS SHOWN AND NOTED ON ONE AND NOT THE OTHER BEING FURNISHED AND INSTALLED AS THOUGH SHOWN AND CALLED OUT IN ALL PLACES. ITEMS IN SPECIFICATIONS OR DRAWINGS LISTED WHICH ARE DIFFERING IN EFFICIENCY OR QUALITY SHALL BE HELD TO THE GREATEST OF: EFFICIENCY, QUALITY OR GOVERNING CODE.

B - THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE INSTALLATION OF THE SYSTEMS ACCORDING TO THE TRUE INTENT AND MEANING OF THE CONTRACT DOCUMENTS.

C - THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT WITH PROPER SERVICE ACCESS AND CLEARANCES ACCORDING TO MANUFACTURERS RECOMMENDATIONS. THE CONTRACTOR SHALL REVIEW SUPPLIERS BID PACKAGES FOR COMPLETENESS AND COMPLIANCE TO THE SPECIFICATIONS, SCHEDULES, AND DESIGN INTENT (ALL EQUIPMENT AND METHODS). THE CONTRACTOR SHALL REMOVE AND REINSTALL CORRECTLY AT HIS OWN EXPENSE ANY EQUIPMENT NOT IN COMPLIANCE.

D - THE CONTRACTOR SHALL CONSULT MANUFACTURERS INSTALLATION INSTRUCTIONS FOR SIZES, METHODS, ACCESSORIES, AND CLEARANCES IN SPACE AVAILABLE PRIOR TO BIDDING PROJECT.

E - ANYTHING NOT CLEAR OR IN CONFLICT WILL BE EXPLAINED BY MAKING APPLICATION TO THE ENGINEER IN WRITING.

G-2 - ANY AND ALL ALTERATIONS TO THE SYSTEM SHOWN SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO CHANGES FOR APPROVAL. CONTRACTOR SHALL NOT START ANY CHANGES UNTIL NOTIFIED IN WRITING. IF CHANGES ARE MADE PRIOR TO APPROVAL CONTRACTOR SHALL TAKE ALL RESPONSIBILITY FOR THE CHANGES MADE AND ALL COSTS RELATING TO FAILURE OR REPLACEMENT OF ALTERATIONS.

G-3 - CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND LOCATIONS.

G-4 - THE WORKING DRAWINGS ARE DIAGRAMMATIC. THEY DO NOT SHOW EVERY OFFSET, BEND, OR ELBOW NECESSARY FOR THE COMPLETE INSTALLATION IN THE SPACE PROVIDED. ALL LOCATIONS FOR MECHANICAL EQUIPMENT SHALL BE FIELD VERIFIED AND COORDINATED WITH ALL DRAWINGS. THE CONTRACTOR SHALL PROVIDE OR COORDINATE WITH THE GENERAL CONTRACTOR PROVISIONS FOR BLOCKOUTS OR CORE DRILLS THROUGH STRUCTURE.

G-5 - THE INSTRUCTION TO "PROVIDE" ALSO INCLUDES INSTALLATION.

G-6 - MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL SMOKE AND FIRE DAMPERS AS REQUIRED BY LOCAL CODES AND AUTHORITIES.

G-7 - SHEET METAL DUCT SIZES SHOWN ON DRAWINGS ARE FREE AREA DIMENSIONS.

G-8 - PROVIDE AND INSTALL BALANCING DAMPERS IN ALL SUPPLY AND EXHAUST AIR BRANCH DUCTS. BALANCE TO CFM SHOWN ON PLAN.

G-9 - SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF DIFFUSERS AND GRILLES.

G-10 - PROVIDE TURNING VANES IN ALL ELBOWS OF RECTANGULAR DUCT.

G-11 - THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY IN HANDLING AND DISPOSING OF REFRIGERANTS, OILS, ETC. ALL SUCH MATERIALS SHALL BE HANDLED, DISPOSED, AND USED IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL LAWS.

G-12 - THE MECHANICAL CONTRACTOR SHALL VERIFY MOTOR VOLTAGES WITH THE ELECTRICAL DRAWING BEFORE ORDERING MOTORIZED EQUIPMENT AND CONTROLS.

G-13 - C.F.M. LISTED IS ACTUAL AIR.

G-14 - SUPPLIERS SHALL REVIEW ALL DRAWINGS AND THE SPECIFICATIONS PRIOR TO SUBMITTING PRICES TO THE CONTRACTOR. ALL QUESTIONS AND DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEERS ATTENTION PRIOR TO BIDDING.

G-15 - CONTRACTOR SHALL THOROUGHLY REVIEW AND SIGN SUBMITTALS FOR COMPLETENESS AND COMPLIANCE TO THE SPECIFICATIONS PRIOR TO ENGINEERS REVIEW. SUPPLIERS SHALL HIGHLIGHT OR MARK ALL INFORMATION REQUIRED TO SHOW COMPLIANCE TO THE SPECIFICATIONS. ALL REQUESTED EXCEPTIONS TO THE SPECIFICATIONS, OR SCHEDULES SHALL BE CLEARLY NOTED AND EXPLAINED. SUBMITTAL REVIEW AND ACCEPTANCE IS FOR DESIGN CONCEPT ONLY, AND DOES NOT AT ANY TIME RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO MEET SPECIFICATIONS, CAPACITIES, OR DESIGN INTENT.

G-16 - ALL MECHANICAL SHALL BE INSTALLED AND CONFORM TO THE 2024 EDITION OF THE IMC AND IPC WITH UTAH ANNOTATIONS AND LOCAL AUTHORITY REQUIREMENTS.

G-17 - THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE DRAINING DOWN AND RE-FILLING OF ALL SYSTEMS NECESSARY TO COMPLETE THE WORK OUTLINED BY THIS PROJECT. THIS INCLUDES PROVIDING THE REQUIRED CHEMICAL TREATMENT WHEN RE-FILLING THE SYSTEM.

G-18 - ALL PIPING, MATERIALS, ETC. SHALL BE NEW AND DOMESTIC MADE UNLESS SPECIFICALLY AUTHORIZED IN WRITING PRIOR TO BID.



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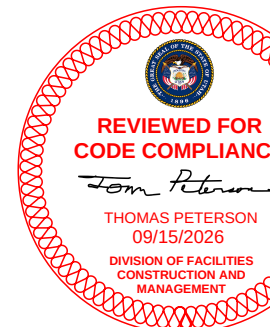


SPE ARCHITECTS
P.O. Box 517
Kaysville, Utah 84037
1.801.238.1368
info@spe-architect.com
www.spe-architect.com

PROFESSIONAL STAMP:



CODE OFFICIAL STAMP:



PROJECT NAME:

UDOT BRIGHAM CITY
TOW PLOW STORAGE BUILDING

1325 POWER PLANT ROAD
BRIGHAM CITY, UTAH 84302

REVISIONS:

NO. DATE DESCRIPTION

ISSUED:

NO. DATE DESCRIPTION

01 07/17/26 CONSTRUCTION BID SET

OWNER PROJECT #: 26381900

SPE PROJECT #: 26-18

DRAWN BY: MB

CHECKED BY: BDL

DESIGNED BY: JLS

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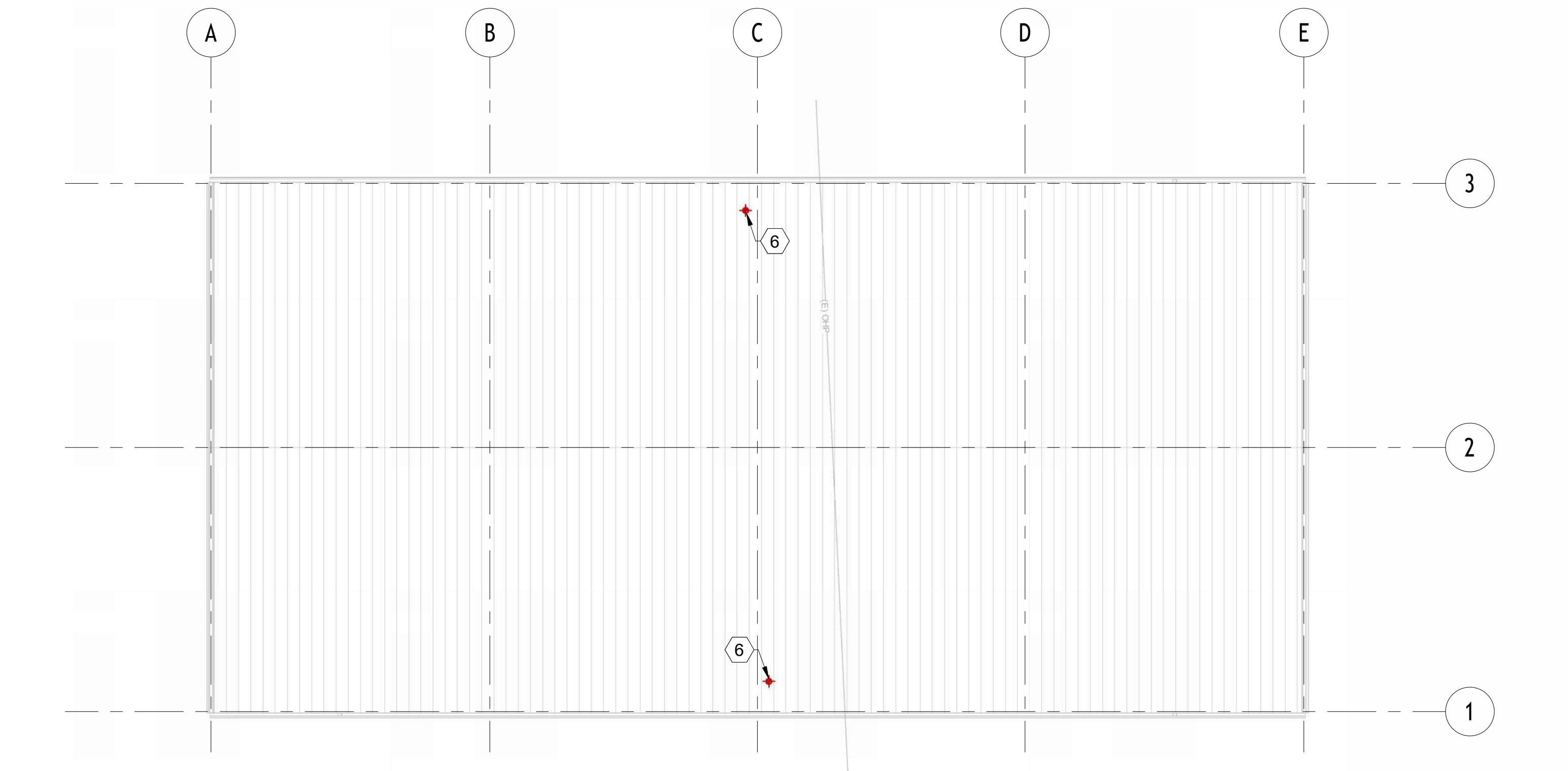
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MECHANICAL
LEGEND AND
GENERAL NOTES

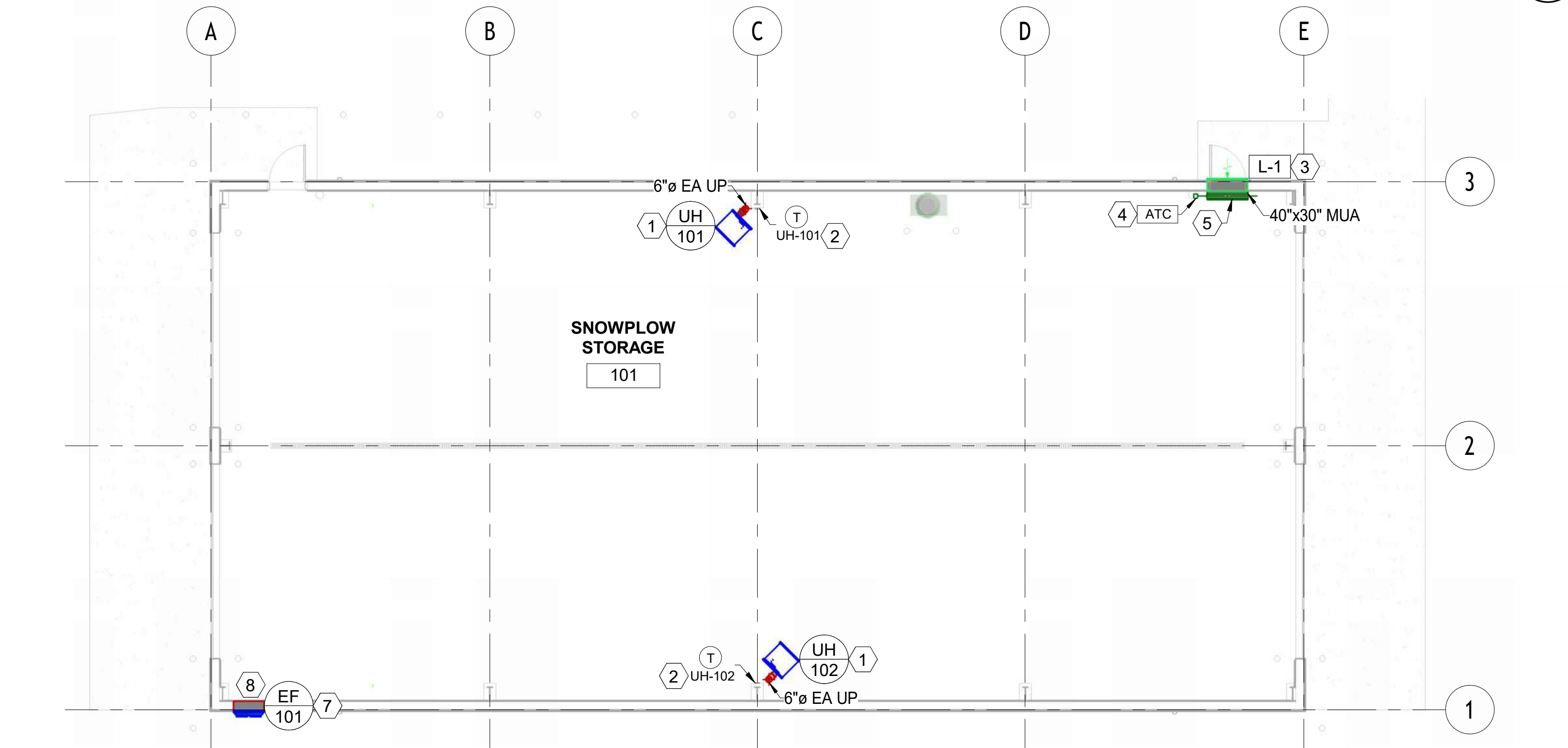
SHEET NUMBER:

MG001

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2 MECHANICAL ROOF PLANS
1/8" = 1'-0"



1 MECHANICAL FLOOR PLANS
1/8" = 1'-0"

SHEET NOTES

- 1 PROVIDE PROPANE FIRED UNIT HEATER IN THIS APPROXIMATE LOCATION. COORDINATE MAXIMUM HEIGHTS WITH MANUFACTURER CLEARANCES AND STRUCTURE. INSTALL PER DETAIL #1/ME601 AND MANUFACTURER'S RECOMMENDATIONS. FLUE AND COMBUSTION AIR TO TERMINATE IN CONCENTRIC KIT PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR ALL ROOF TOP PENETRATIONS. FIELD VERIFY.
- 2 PROVIDE SEVEN DAY PROGRAMMABLE THERMOSTAT WITH BACNET OUTPUT IN THIS APPROXIMATE LOCATION. PROVIDE INSULATED BASE ON THERMOSTAT. INSTALL AT 48" AFF AND PER MANUFACTURER'S RECOMMENDATIONS.
- 3 PROVIDE SIDEWALL LOUVER HIGH IN THIS APPROXIMATE LOCATION. COORDINATE WITH ARCHITECTURAL PLANS FOR TRANSLUCENT WALL PANELS ELEVATION AND DIMENSIONS. LOUVER TO BE SIZED AND INSTALLED TO ALIGN OVER THE MAIN DOOR, AND WITH THE TRANSLUCENT WALL PANELS. FIELD VERIFY.
- 4 PROVIDE 115 VOLT MOTORIZED DAMPER IN RELIEF AIR DUCT IN THIS APPROXIMATE LOCATION. INTERLOCK DAMPER WITH EXHAUST FAN. DAMPER TO BE NORMALLY CLOSED, AND OPEN WHEN EXHAUST FAN IS ENERGIZED. FIELD VERIFY.
- 5 TERMINATE DUCT IN THIS APPROXIMATE LOCATION WITH MESH BIRD SCREEN PER DETAIL #3/ME601.
- 6 TERMINATE FLUE ABOVE THE ROOF IN THIS APPROXIMATE LOCATION WITH BIRD SCREEN AND WEATHER CAP. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR ALL ROOF TOP PENETRATIONS, AND FLASHING REQUIREMENTS. SEAL ALL PENETRATIONS WEATHER TIGHT.
- 7 PROVIDE SIDEWALL PROPELLER EXHAUST FAN HIGH IN THIS APPROXIMATE LOCATION. COORDINATE WITH ARCHITECTURAL PLANS FOR TRANSLUCENT WALL PANELS ELEVATION. PROPELLER EXHAUST FAN TO BE HORIZONTALLY ALIGNED WITH BUILDING TRANSLUCENT WALL PANELS. FIELD VERIFY. INSTALL PER DETAIL #2/ME601 AND MANUFACTURER'S RECOMMENDATIONS. PROVIDE BACKDRAFT DAMPER ON OUTLET. FIELD VERIFY.
- 8 COORDINATE WITH ELECTRICAL TO PROVIDE WALL SWITCH TO CONTROL EXHAUST FANS 48" AFF IN THIS APPROXIMATE LOCATION. FIELD VERIFY.

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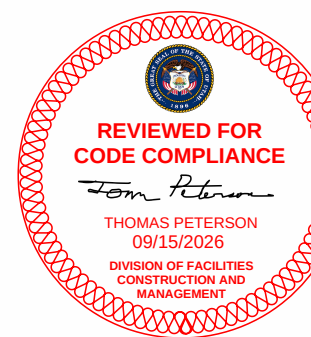


SPE ARCHITECTS
P.O. Box 517
Kaysville, Utah 84037
1.801.238.1368
info@spe-architect.com
www.spe-architect.com

PROFESSIONAL STAMP:



CODE OFFICIAL STAMP:



PROJECT NAME:

**UDOT BRIGHAM CITY
TOW PLOW STORAGE BUILDING**

1325 POWER PLANT ROAD
BRIGHAM CITY, UTAH 84302

REVISIONS:

NO.	DATE	DESCRIPTION
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ISSUED:

NO.	DATE	DESCRIPTION
01	07/17/26	CONSTRUCTION BID SET

OWNER PROJECT #:	26381900
SPE PROJECT #:	26-18
DRAWN BY:	MB
CHECKED BY:	BDL
DESIGNED BY:	JLS
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SHEET TITLE:

**MECHANICAL
FLOOR PLANS**

SHEET NUMBER:

ME101



LOUVER SCHEDULE											TYP E
TAG	MAX FLOW	DIMENSIONS		MAX VELOCITY	MIN FREE AREA	DAMPER	MAX NC	MANUF. AND MODEL	SCHEDULE NOTES	TAG	
		W	H								
L-1	315 CFM	40"	30"	525 FPM	0.6 SF	YES	25	GREENHECK EDD-401	1,2,3,4		

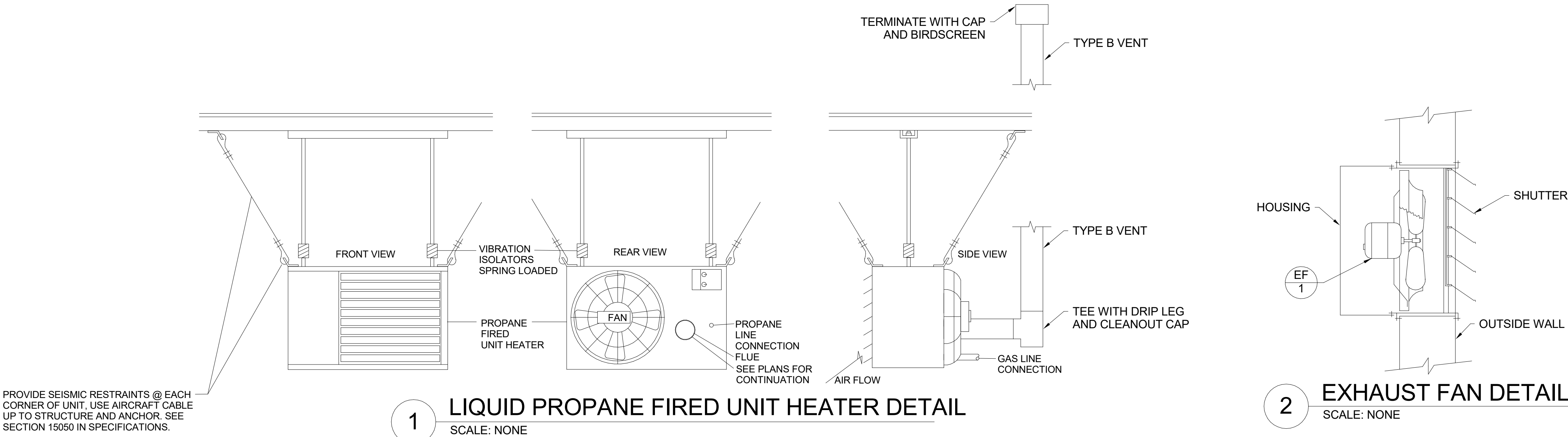
1. SEE SPECIFICATIONS FOR OTHER APPROVED MANUFACTURERS.
2. FINISH SHALL BE SPECIFIED BY ARCHITECT.
3. COORDINATE WITH ARCHITECTURAL PLANS FOR GLAZING ELEVATION AND DIMENSIONS. LOUVER TO BE SIZED AND INSTALLED TO ALIGN WITH BUILDING GLAZING.
4. PROVIDE 115 VOLT MOTORIZED DAMPER IN RELIEF AIR DUCT. INTERLOCK DAMPER WITH EXHAUST FAN. DAMPER TO BE NORMALLY CLOSED, AND OPEN WHEN EXHAUST FAN IS ENERGIZED. PER DETAIL #4/ME601

EXHAUST FAN SCHEDULE													TYP E
TAG		CFM	ESP	ELECTRICAL					DIMENSIONS		MANUF. AND MODEL	SCHEDULE NOTES	TAG
TYPE	NUMBER			V	PH	HZ	RPM	HP	WT	SONES			
EF	101	225 CFM	0.20 in-wg	115 V	1	60 Hz	1380	0.03 hp	30 lb	6.3	COOK XWD	1,2,3,4,5,6	

1. SEE SPECIFICATIONS FOR OTHER APPROVED MANUFACTURERS.
2. EXHAUST FAN TO BE CONTROLLED WITH WALL SWITCH.
3. PROVIDE BACKDRAFT DAMPER ON OUTLET OF EXHAUST FAN.
4. COORDINATE WITH ARCHITECTURAL PLANS FOR GLAZING ELEVATION AND DIMENSIONS. EXHAUST FAN TO BE INSTALLED TO ALIGN WITH BUILDING GLAZING.
5. EXHAUST FAN TO BE INTERLOCKED WITH 115 VOLT MOTORIZED DAMPER IN RELIEF AIR DUCT.
6. PROVIDE ECM MOTOR WITH INTEGRATED SPEED CONTROLLER.

LIQUID PROPANE FIRED UNIT HEATER SCHEDULE																	TYP E
TAG		CFM	HEATING				ELECTRICAL				DIMENSIONS				MANUF. AND MODEL	SCHEDULE NOTES	TAG
TYPE	#		INPUT	OUTPUT	AIR DT	FLUE	VOLTAGE	PHASE	FREQUENCY	HP	MAX MOUNTING HEIGHT	L	W	H	WT		
UH	101	1,980 CFM	125,000 Btu/h	102,500 Btu/h	47 °F	4"	115 V	1	60 Hz	0.13 hp	16'	36"	21"	31"	143 lb	MODINE HOT DAWG HD125	1,2,3
UH	102	1,980 CFM	125,000 Btu/h	102,500 Btu/h	47 °F	4"	115 V	1	60 Hz	0.13 hp	16'	36"	21"	31"	143 lb	MODINE HOT DAWG HD125	1,2,3

1. SEE SPECIFICATIONS FOR OTHER APPROVED MANUFACTURERS.
2. PROVIDE WITH HANGER RODS C/W VIBRATION ISOLATERS SEISMICALLY BRACED UNITS.
3. MOUNT HIGH AND TIGHT TO WALL. MAINTAIN MANUFACTURER RECOMMENDED CLEARANCES.



ARCHITECT'S INFORMATION:

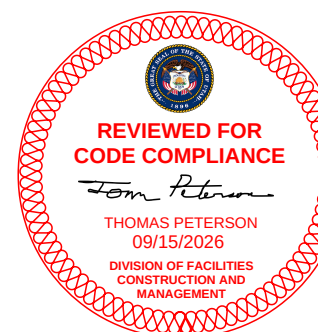


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P.O. Box 517
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CHECKED BY: BDL

DESIGNED BY: JLS

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SHEET TITLE:

MECHANICAL
SCHEDULES AND
DETAILS

SHEET NUMBER:

ME601



MECHANICAL & PLUMBING ENGINEERING
733 West 9000 South, Sandy, Utah 84070
Phone: 801-466-4021
Email: excellence@WHW-Engineering.com

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D

C

B

A

PLUMBING LEGEND			
MEANING	SYMBOL OR ABBREVIATION	MEANING	SYMBOL OR ABBREVIATION
HOT WATER LINE	HW	WALL CLEANOUT	WCO
COLD WATER LINE	CW	CLEANOUT	CO
HOT WATER RECIRCULATING LINE	HWREC	CLEANOUT TO GRADE	COTG
VENT LINE	V	FLOOR CLEANOUT	FCO
WASTE LINE	SS	BALL VALVE	ϕ
GAS LINE	G	UNION	
VENT THRU ROOF	VTR	CONNECTION TO EXISTING PIPING	⊕
UNDER FLOOR	UF	REGULATOR	®
SANITARY SEWER	SS	SOFT WATER	SW
PRIMARY ROOF DRAIN	PRD	SECONDARY ROOF DRAIN	SRD
FIXTURE CALLOUT	WC-1	FIXTURE CALLOUT ABOVE	WC

PLUMBING GENERAL NOTES

G-1 - ALL PLUMBING SHALL BE INSTALLED AND CONFORM TO THE 2024 EDITION OF THE INTERNATIONAL PLUMBING CODE (IPC) WITH UTAH ANNOTATIONS AND LOCAL AUTHORITY REQUIREMENTS.

G-2 - ALL PIPING MATERIALS SHALL MEET ALL REQUIREMENTS OF IPC AND LOCAL AUTHORITY. SEE SPECIFICATIONS FOR ALLOWABLE PIPING MATERIALS FOR EACH SYSTEM. PLASTIC PIPING SHALL BE ALLOWED ONLY WHERE ALLOWED BY CODE. PLASTIC PIPING SHALL NOT BE ROUTED THROUGH RETURN AIR PLENUMS OR OTHER AREAS PROHIBITED BY THE IMC, IPC, OR NFPA CODES OR BY LOCAL AUTHORITY.

G-3 - GAS PIPING INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH GAS COMPANY REGULATIONS, NFPA CODE REQUIREMENTS, AND LOCAL AUTHORITY.

G-4 - ALL MATERIALS SHALL BE NEW AND SHALL BE DOMESTIC MADE UNLESS SPECIFICALLY APPROVED OTHERWISE IN WRITING BY ARCHITECT OR OWNER.

G-5 - PROVIDE VACUUM BREAKERS AND BACK FLOW PREVENTERS WHERE REQUIRED BY CODE OR WHERE THERE MAY BE ANY POSSIBLE CHANCE FOR CROSS CONTAMINATION. PREVENTERS SHALL BE INSTALLED IN ACCORDANCE WITH UTAH CODE.

G-6 - ALL PLUMBING INFORMATION IS NOT LIMITED TO THE PLUMBING DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR INFORMATION ON ALL OTHER CONSTRUCTION DOCUMENTS INCLUDING SPECIFICATIONS, ARCHITECTURAL DRAWING, STRUCTURAL DRAWINGS, MECHANICAL DRAWINGS, AND ELECTRICAL DRAWINGS.

G-7 - THE WORKING DRAWINGS ARE DIAGRAMMATIC. BECAUSE OF THE SMALL SCALE OF THE DRAWING, THEY DO NOT SHOW EVERY OFFSET, BEND OR ELBOW NECESSARY FOR THE COMPLETE INSTALLATION IN THE SPACE PROVIDED. ALL PIPING SHALL BE CHECKED AND COORDINATED WITH THE SPECIFICATIONS, ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS.

G-8 - COORDINATE ALL PIPING AND PLUMBING EQUIPMENT WITH ALL OTHER TRADES AND/OR CONTRACTORS PRIOR TO INSTALLATION.

G-9 - ANY AND ALL ALTERATIONS TO THE SYSTEM SHOWN SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR AND ARCHITECT/ENGINEER SHALL BE NOTIFIED IN WRITING PRIOR TO CHANGES.

G-10 - GAS LINE FITTINGS SHALL BE STANDARD WELD FITTINGS WITH TAPERED REDUCERS. DO NOT USE VALVES, UNIONS, OR AUTO CONTROLS IN GAS LINES ROUTED IN INACCESSIBLE CONCEALED SPACES.

G-11 - ALL WATER SYSTEMS SHALL MEET THE REQUIREMENTS OF ANSI/NSF STANDARD 61 SECTION 9 (1998), CONCERNING METAL CONTAMINANTS IN THE WATER SYSTEM.

G-12 - WATER PIPING SHALL NOT BE ROUTED IN OUTSIDE WALLS OR ON EXTERIOR SIDE OF BUILDING INSULATION ENVELOPE.

G-13 - WATER HAMMER ARRESTORS SHALL BE INSTALLED IN ALL WATER LINES WITH QUICK OPEN OR QUICK CLOSE VALVES.

WATER HAMMER ARRESTOR SCHEDULE:

TYPE A	1-11 FIXTURE UNITS
TYPE B	12-32 FIXTURE UNITS
TYPE C	33-60 FIXTURE UNITS
TYPE D	61-113 FIXTURE UNITS

G-14 - ALL PIPING, MATERIALS, ETC. SHALL BE NEW AND DOMESTIC MADE UNLESS SPECIFICALLY AUTHORIZED IN WRITING PRIOR TO BID.

G-15 - EACH DRAWING SHEET AND THE SPECIFICATIONS HAVE BEEN PREPARED TO SUPPLEMENT EACH OTHER AND THEY SHALL BE INTERPRETED AS AN INTEGRAL UNIT WITH ITEMS SHOWN AND NOTED ON ONE AND NOT THE OTHER BEING FURNISHED AND INSTALLED AS THOUGH SHOWN AND CALLED OUT IN ALL PLACES. ITEMS IN SPECIFICATIONS OR DRAWINGS LISTED WHICH ARE DIFFERING IN EFFICIENCY OR QUALITY SHALL BE HELD TO THE GREATEST OF: EFFICIENCY, QUALITY, OR GOVERNING CODE.



WHW
ENGINEERING LLC
MECHANICAL & PLUMBING ENGINEERING
733 West 9000 South, Sandy, Utah 84070
Phone: 801-466-4021
Email: excellence@WHW-Engineering.com

ARCHITECT'S INFORMATION:

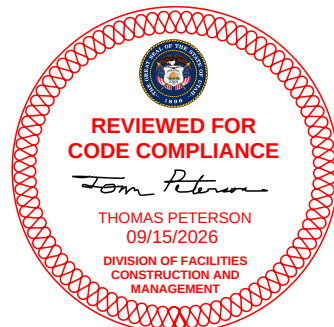


SPE ARCHITECTS
P.O. Box 517
Kaysville, Utah 84037
1-801-238-1368
info@spe-architect.com
www.spe-architect.com

PROFESSIONAL STAMP:



CODE OFFICIAL STAMP:



PROJECT NAME:

UDOT BRIGHAM CITY
TOW PLOW STORAGE BUILDING

1325 POWER PLANT ROAD
BRIGHAM CITY, UTAH 84302

REVISIONS:

NO. DATE DESCRIPTION

ISSUED:

NO.	DATE	DESCRIPTION
01	07/17/26	CONSTRUCTION BID SET

OWNER PROJECT #:	26381900
SPE PROJECT #:	26-18
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CHECKED BY:	BDL
DESIGNED BY:	JLS
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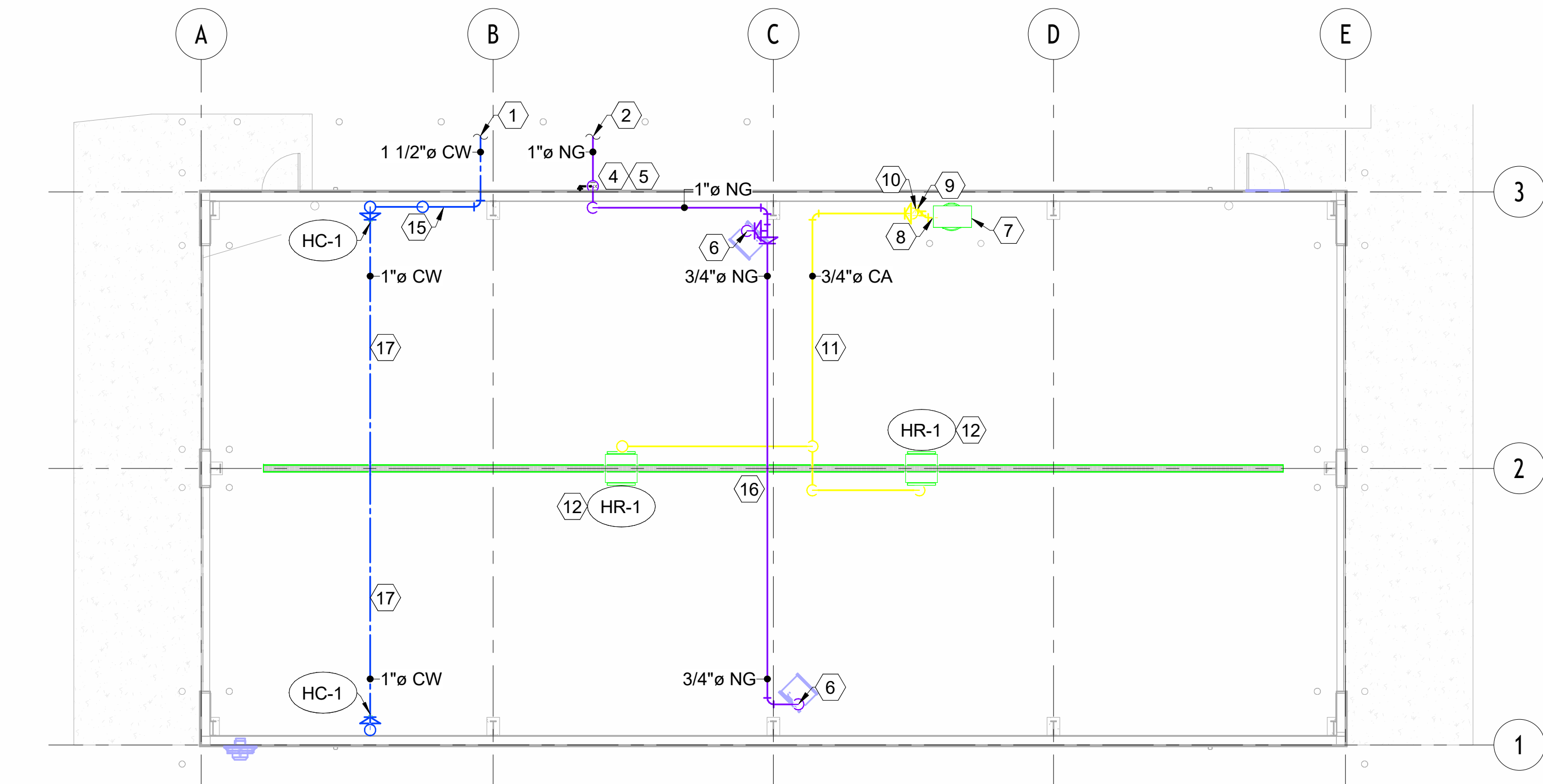
SHEET TITLE:

PLUMBING LEGEND
AND GENERAL
NOTES

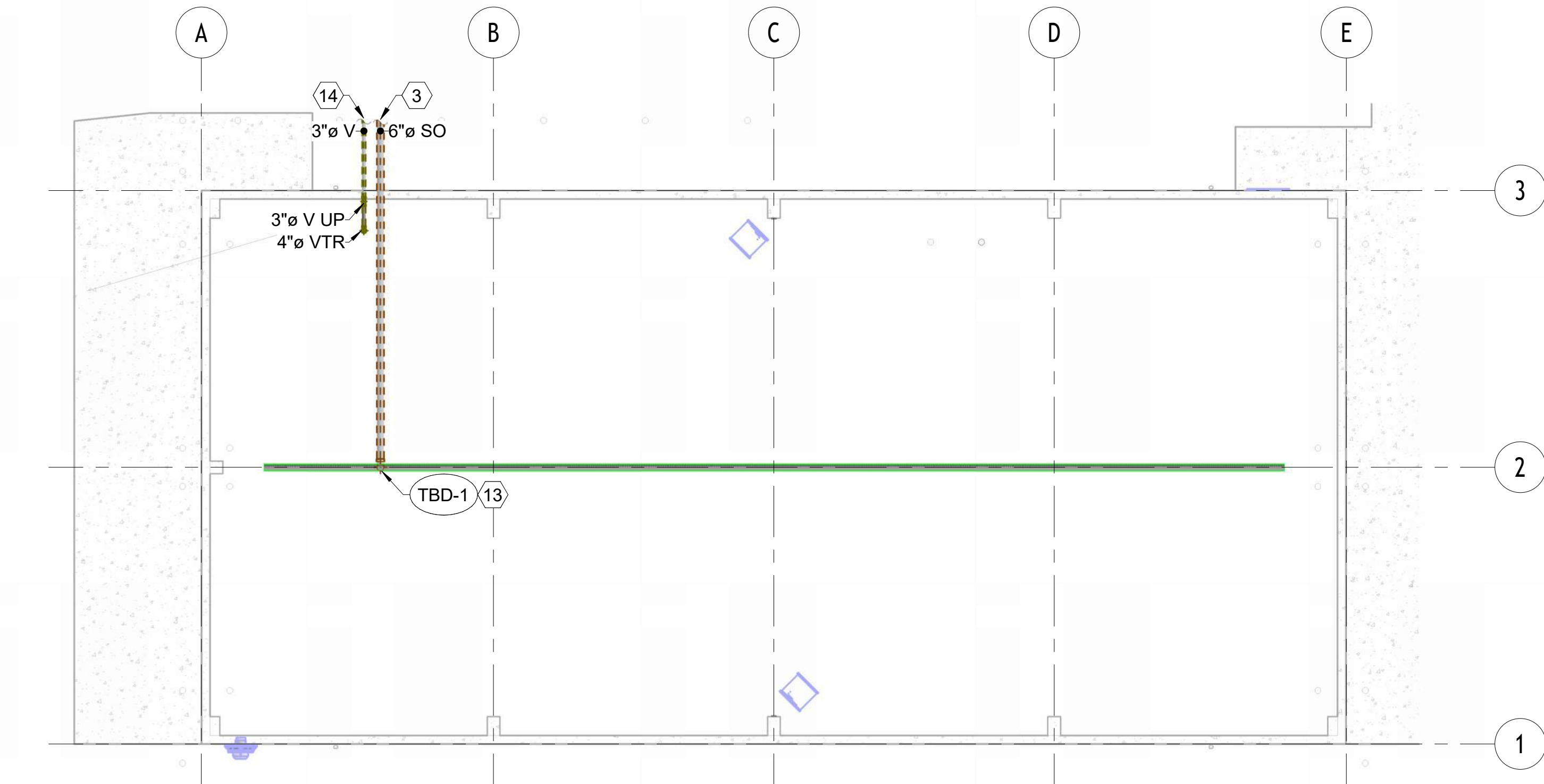
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Last Plotted: 8/25/2026 9:12:39 AM



1 PLUMBING DOMESTIC WATER AND PROPANE PLANS
1/8" = 1'-0"



2 PLUMBING WASTE AND VENT PLANS
1/8" = 1'-0"

SHEET NOTES

- SEE CIVIL FOR CONTINUATION OF DOMESTIC WATER PIPING IN THIS APPROXIMATE LOCATION. FIELD VERIFY.
- LIQUID PROPANE PIPING TO CONTINUE IN THIS APPROXIMATE LOCATION. FIELD VERIFY.
- SEE CIVIL FOR CONTINUATION OF SANITARY SEWER PIPING IN THIS APPROXIMATE LOCATION. COORDINATE WITH STRUCTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS WHEN CROSSING FOOTINGS WITH PIPING. FIELD VERIFY.
- LIQUID PROPANE TO RISE UP AGAINST EXTERIOR WALL IN THIS APPROXIMATE LOCATION. PROVIDE SHUT-OFF VALVE AND ROUTE INTO BUILDING TO GAS FIRED EQUIPMENT PER PLANS.
- LIQUID PROPANE DESIGN CAPACITY: 250 MBH (281 CFH)
DESIGN LENGTH: 150'
DESIGN PRESSURE: 2 LB
REGULATORS: 2LBS TO 40Z
- CONNECT PROPANE TO EQUIPMENT PER DETAIL #2/PE601 AND MANUFACTURERS RECOMMENDATIONS. FIELD VERIFY.
- OWNER PROVIDED CONTRACTOR INSTALLED VERTICAL TANK TYPE AIR COMPRESSOR IN THIS APPROXIMATE LOCATION. AIR COMPRESSOR SHALL BE ANCHORED TO THE FLOOR WITH EXPANSION ANCHORS TO PREVENT OVERTURNING. PROVIDE VIBRATION PADS UNDER THE TANK FEET. HAND TIGHTEN ANCHOR NUTS AND THEN ADD LOCKING NUTS TO PREVENT ANCHOR NUTS FROM BACKING OFF.
- PROVIDE FLEX CONNECTION FROM BALL VALVE ON COMPRESSOR TO 3/4" COMPRESSED AIR PIPING. FIELD VERIFY.
- PROVIDE AIR DRYER AND MEDIA FILTER IN THIS APPROXIMATE LOCATION. PROVIDE PRE AND POST FILTER ON DRYER. INSTALL PER DETAIL#4/PE601 AND MANUFACTURER'S RECOMMENDATIONS. FIELD VERIFY.
- PROVIDE REGULATOR ON COMPRESSED AIR MAIN IN THIS APPROXIMATE LOCATION. SET REGULATOR TO 110 PSI.
- ROUTE COMPRESSED AIR PIPING IN STORAGE BAY AS HIGH AS POSSIBLE IN THIS APPROXIMATE LOCATION. SLOPE COMPRESSED AIR LINE MAIN BACK TO COMPRESSOR. PIPING TO BE INSTALLED ABOVE STRUCTURAL STEEL. FIELD VERIFY.
- PROVIDE COMPRESSED AIR HOSE REEL IN THIS APPROXIMATE LOCATION. INSTALL PER DETAIL #1/PE601 AND MANUFACTURER'S RECOMMENDATIONS. FIELD VERIFY.
- PROVIDE FLOOR DRAIN WITH CAST ALUMINUM DOME STRAINER IN LOW POINT OF FIELD FABRICATED TRENCH DRAIN. FIELD VERIFY.
- SEE CIVIL FOR CONTINUATION OF VENT PIPING IN THIS APPROXIMATE LOCATION. COORDINATE WITH STRUCTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS WHEN CROSSING FOOTINGS WITH PIPING. FIELD VERIFY.
- PROVIDE OFFSET OF 1-1/2" MAIN BELOW GRADE AS NEEDED TO RISE UP TIGHT TO EXTERIOR WALL. TRANSITION TO COPPER PIPING IMMEDIATELY ABOVE SLAB, AND PROVIDE BUILDING SHUTOFF AT 24" AFF. ROUTE 1" COPPER PIPING TO HOSE CONNECTION.
- ROUTE LIQUID PROPANE PIPING IN STORAGE BAY AS HIGH AS POSSIBLE IN THIS APPROXIMATE LOCATION. PIPING TO FOLLOW SLOPE OF ROOF LINE. FIELD VERIFY.
- ROUTE DOMESTIC WATER PIPING IN STORAGE BAY AS HIGH AS POSSIBLE IN THIS APPROXIMATE LOCATION. PIPING TO FOLLOW THE SLOPE OF STRUCTURE. FIELD VERIFY.

ARCHITECT'S INFORMATION:

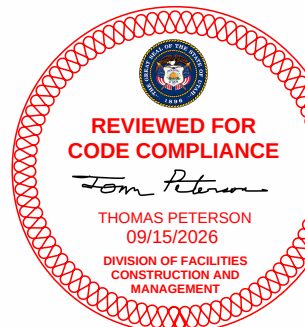


SPE ARCHITECTS
P.O. Box 517
Kaysville, Utah 84037
1.801.298.1368
info@spe-architect.com
www.spe-architect.com

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SHEET TITLE:

PLUMBING FLOOR
PLANS

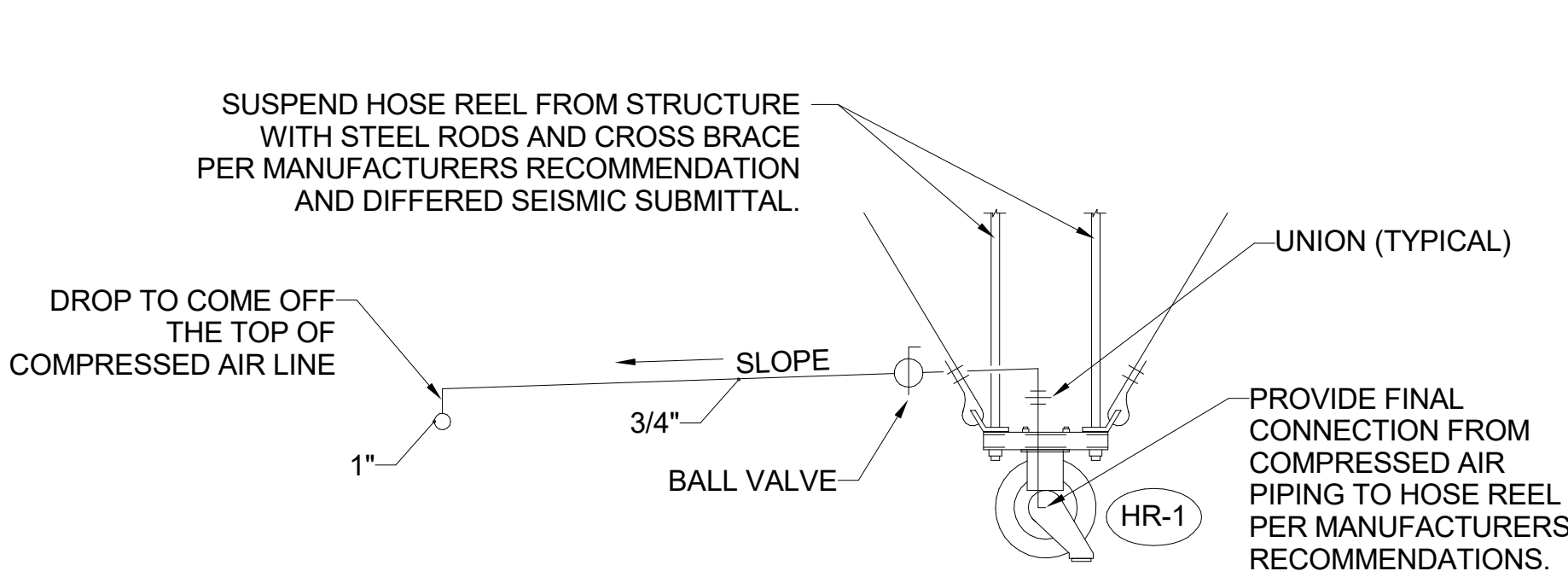
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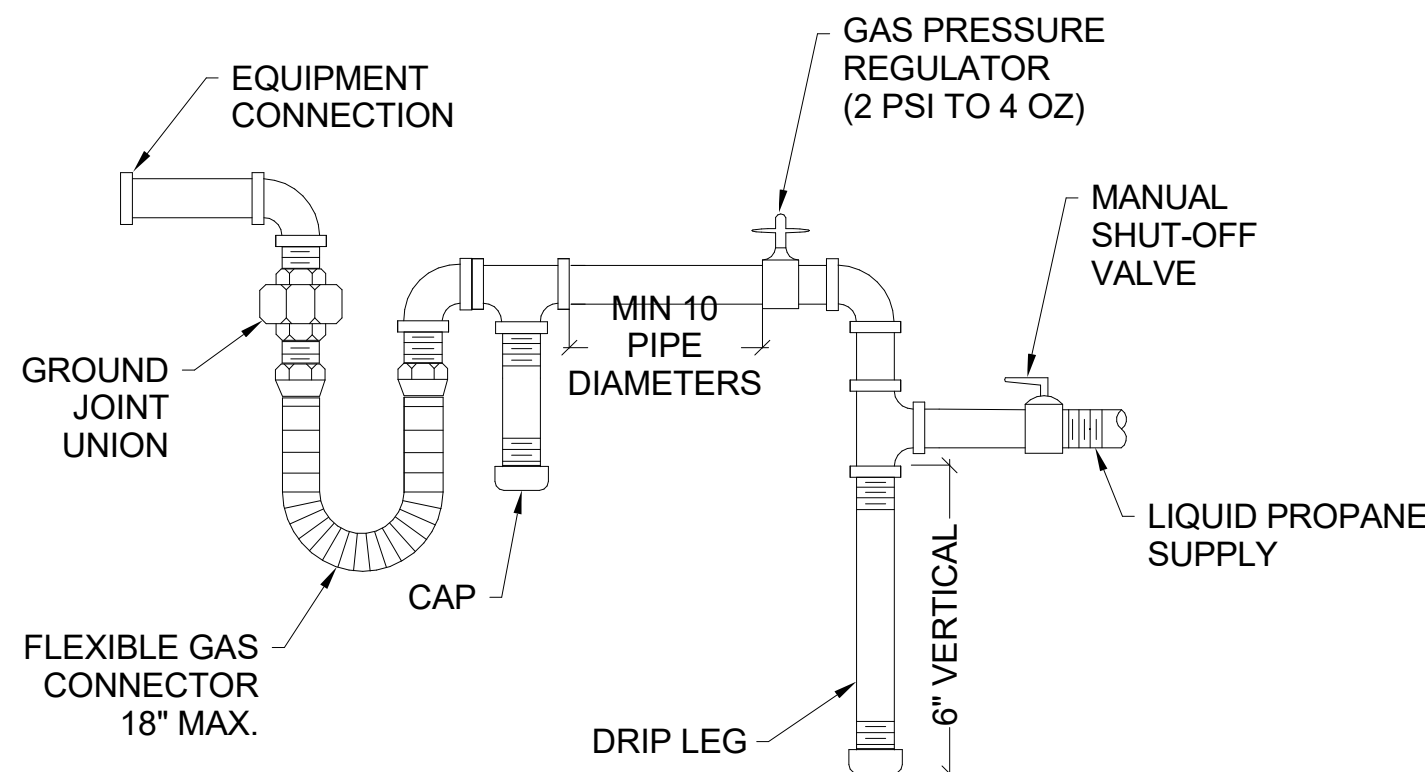


PLUMBING FIXTURE SCHEDULE									TAG
TAG	FIXTURE	PIPE SIZES					MANUF. AND MODEL	SCHEDULE NOTES	
		COLD WATER	HOT WATER	WASTE	TRAP	VENT			
HC-1	HOSE CONNECTION	1"	0"	0"	0"	0"	FIELD FABRICATED.	1" COPPER INLET WITH FULL-PORT BALL VALVE, HOSE CONNECTION VACUUM BREAKER, AND 3/4" MALE HOSE THREAD OUTLET. PROVIDE COMPLETE WITH WALL BRACKET/SUPPORT PER DETAIL AND ALL NECESSARY ADAPTERS AND ACCESSORIES FOR A COMPLETE INSTALLATION.	
HR-1	3/8" COMPRESSED AIR HOSE REEL	0"	0"	0"	0"	0"	COXREELS EZ-SH-450 OR EQUAL.	PROVIDE SPRING-RETRACTABLE HOSE REEL COMPLETE WITH CEILING MOUNTING BRACKET, STRUCTURAL ATTACHMENT HARDWARE, FLEXIBLE SUPPLY CONNECTION, ISOLATION BALL VALVE, UNIONS, HOSE STOP ADJUSTMENT, QUICK DISCONNECTS, AND ALL ACCESSORIES REQUIRED FOR A COMPLETE AND OPERABLE INSTALLATION. COORDINATE MOUNTING WITH STRUCTURAL MEMBERS.	
TBD-1	BASIN AREA DRAIN WITH DOME STRAINER IN BOTTOM OF TRENCH DRAIN	0"	0"	6"	6"	3"	WATTS FD-860-PA OR EQUAL.	BASIN AREA DRAIN WITH DOME STRAINER IN BOTTOM OF TRENCH DRAIN. PROVIDE FLOOR DRAIN WITH CAST ALUMINUM DOME STRAINER IN LOW POINT OF FIELD FABRICATED TRENCH DRAIN.	

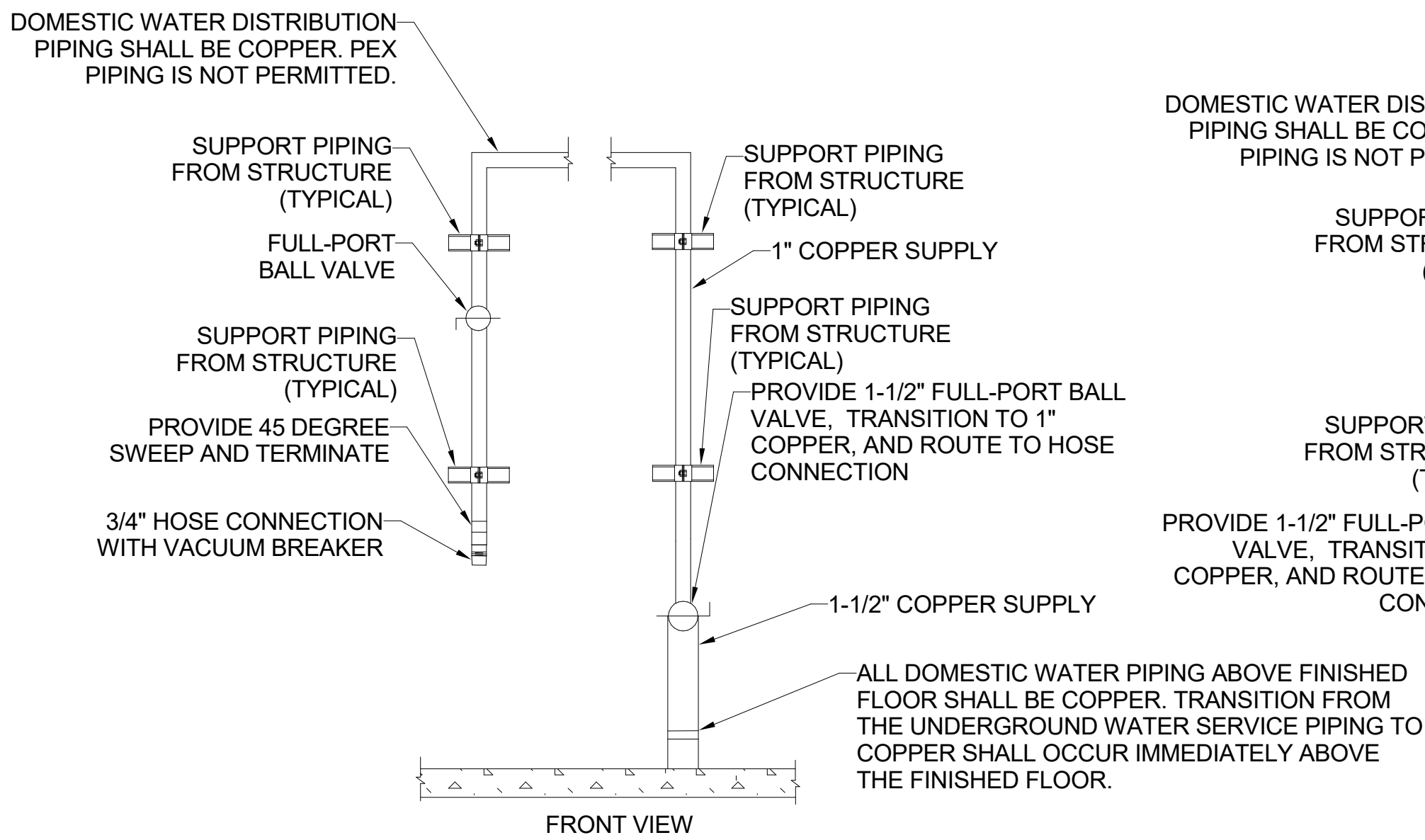
1. SEE SPECIFICATIONS FOR OTHER APPROVED MANUFACTURERS.



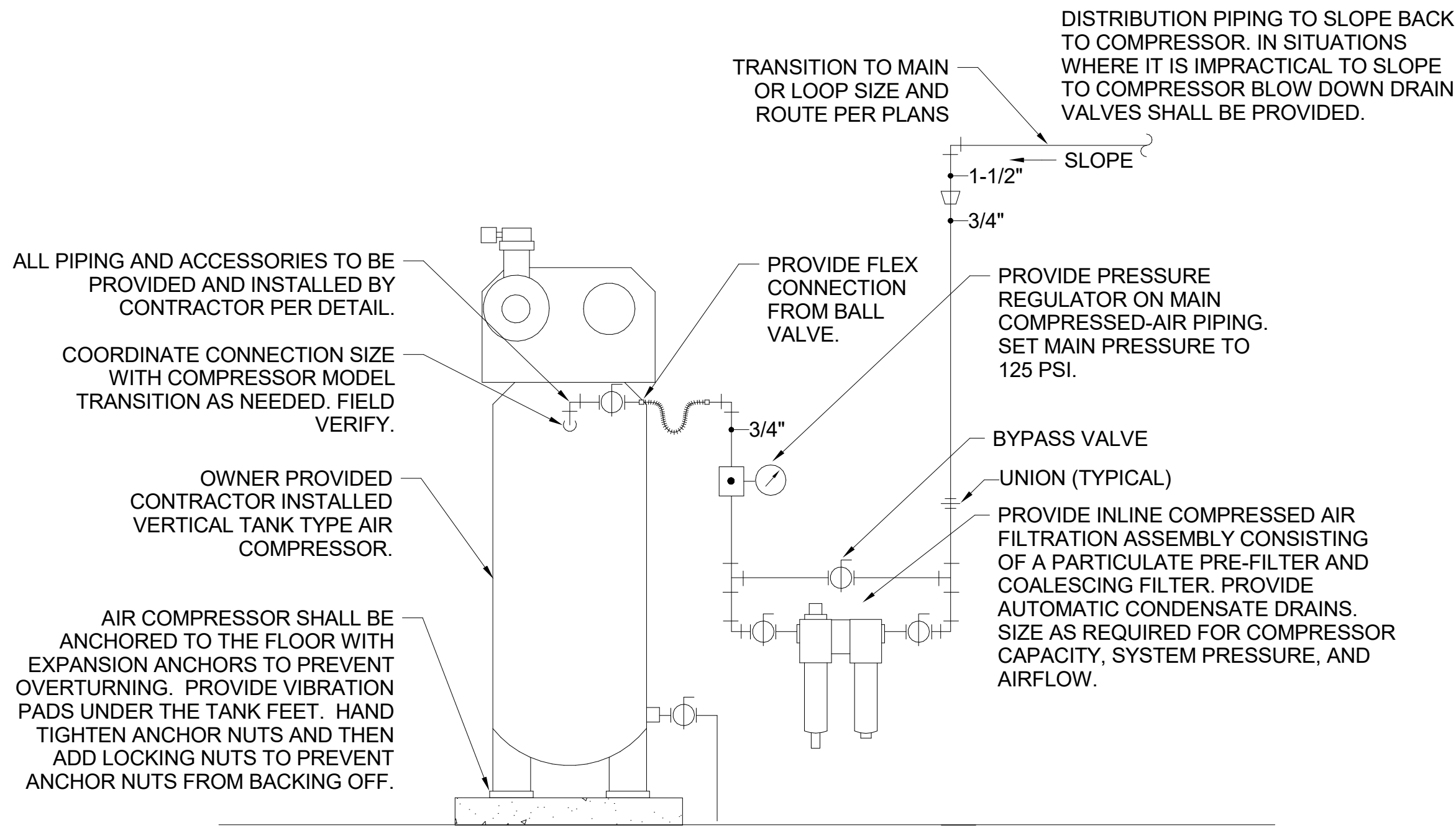
1 HOSE REEL CONNECTION DETAIL
SCALE: NONE



2 LIQUID PROPANE CONNECTION DETAIL
SCALE: NONE



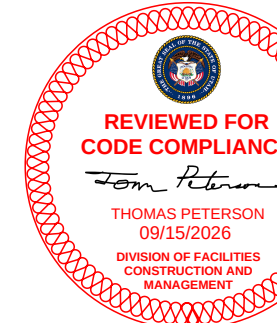
3 HOSE CONNECTION DETAIL
SCALE: NONE



4 AIR COMPRESSOR DETAIL
SCALE: NONE



SPE ARCHITECTS
P.O. Box 517
Kaysville, Utah 84037
1.801.298.1368
info@spe-architect.com
www.spe-architect.com



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PLUMBING
SCHEDULES AND
DETAILS

SHEET NUMBER:
PE601



ELECTRICAL GENERAL NOTES	
GENERAL NOTES: 1. THE ELECTRICAL SYSTEMS DEFINED BY THESE PLANS AND THE SPECIFICATIONS ARE TO BE CONSTRUCTED AS COMPLETE AND OPERABLE SYSTEMS AND SHALL BE BID WITH THIS INTENT. THE CONTRACTOR SHALL VISIT THE SITE, READ ALL THE RELEVANT DOCUMENTS, AND BECOME FAMILIAR WITH THE TYPE OF CONSTRUCTION AND WORK TO BE ACCOMPLISHED. SHOULD ANY ERROR, OMISSION, OR CONFLICT EXIST IN EITHER THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING BEFORE SUBMITTING THEIR BID PRICE SO A CHANGE CAN BE ISSUED IN A PRE-BID ADDENDUM. OTHERWISE, THE CONTRACTOR AND/OR EQUIPMENT SUPPLIERS SHALL SUPPLY THE PROPER MATERIALS AND LABOR TO INSTALL COMPLETE AND OPERABLE SYSTEMS INCLUSIVE OF THE ORIGINAL BID. WHEN EACH ELECTRICAL SYSTEM IS COMPLETE, THE CONTRACTOR SHALL TEST AND CONFIRM ITS PROPER OPERATION. ANY INCOMPLETE SYSTEM SHALL BE MADE COMPLETE AND OPERABLE PRIOR TO PROJECT CLOSEOUT. 2. THE ARCHITECTURAL AND MECHANICAL PLANS ARE CONSIDERED A PART OF THE ELECTRICAL DOCUMENTS SO FAR AS ANY ELECTRICAL ITEMS THEY MAY CONTAIN. THE ELECTRICAL CONTRACTOR SHALL REFER TO AND COORDINATE WITH THEM. NO EXTRA COST SHALL BE ALLOWED FOR FAILURE TO COORDINATE THE CONTRACT DOCUMENTS WITH OTHER TRADES AND/OR IF EQUIPMENT DIMENSIONS ARE GREATER THAN SPECIFIED AND/OR DIMENSIONED ON THE PLANS. 3. THE ELECTRICAL CONTRACTOR SHALL PROVIDE EQUIPMENT, MATERIALS, AND LABOR FOR THE CONNECTIONS OF ALL EQUIPMENT SHOWN ON THE PLANS - ARCHITECTURAL, MECHANICAL, ETC. 4. THIS PROJECT IS TO BE INSTALLED IN STRICT ACCORDANCE WITH THE MOST RECENT LOCAL, STATE, AND NATIONAL CODES. IF AT ANY TIME DURING OR AFTER CONSTRUCTION SOMETHING IS FOUND TO BE INSTALLED IN VIOLATION OF THESE CODES LISTED ABOVE, IT SHALL BE CORRECTED BY THE CONTRACTOR. 5. WHERE A RACEWAY ENTERS A BUILDING OR STRUCTURE FROM THE OUTSIDE, IT SHALL BE SEALED AS PER NEC 225.27. 6. ALL ELECTRICAL EQUIPMENT THAT IS LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT, SERVICING OR MAINTENANCE WHILE ENERGIZED SHALL BE FIELD OR FACTORY LABELED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS PER NEC 110.16. THE LABEL SHALL ALSO CONTAIN THE MAXIMUM AVAILABLE FAULT CURRENT AND THE DATE THE FAULT CURRENT CALCULATIONS WERE PERFORMED AS PER NEC 110.24. 7. EACH DISCONNECTING MEANS SHALL BE LEGIBLY MARKED TO INDICATE ITS PURPOSE AND TO IDENTIFY THE CIRCUIT SOURCE THAT SUPPLIES THE DISCONNECTING MEANS PER NEC 110.22. 8. ALL EQUIPMENT PROVIDED BY THE EC SHALL BE LISTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING AGENCY, ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION, AND BE PROPERLY INSTALLED FOR THE CONDITIONS AND SPACE THAT EQUIPMENT IS BEING INSTALLED WITHIN. 9. THE EC SHALL INSTALL A SEPARATE EQUIPMENT GROUNDING CONDUCTOR IN EACH CONDUIT RUN. CONDUIT SHALL NOT BE USED AS AN EQUIPMENT GROUNDING CONDUCTOR. THE EC SHALL GROUND THE ELECTRICAL SYSTEM IN ACCORDANCE WITH LOCAL AND NATIONAL CODES. 10. CONDUIT LAYOUTS SHOWN ON THE PLANS ARE DIAGRAMMATIC, NOT INDICATING THE ROUTING REQUIRED. THE EC SHALL ROUTE THE CONDUITS AS REQUIRED BY THE CONDITIONS OF THE INSTALLATION AND SHALL COORDINATE WITH DUCTWORK, PIPING, EQUIPMENT, BUILDING STRUCTURE, AND OTHER POTENTIAL OBSTRUCTIONS. 11. THE CONTRACTOR SHALL ALLOW THE MOVEMENT, BEFORE ROUGH-IN, OF ANY ELECTRICAL PANEL, DEVICE, LUMINAIRE, ETC. A DISTANCE OF 10 FEET WITHOUT REQUIRING ADDITIONAL COST TO THE PROJECT. 12. THE EC SHALL SECURE ALL CONDUIT TO THE STRUCTURE AS IT IS SET IN PLACE USING INDUSTRY STANDARD METHODS AND PRACTICES. TO ASSURE ALL DEVICES ARE RIGIDLY SET, THE ELECTRICAL CONTRACTOR SHALL SECURE ALL DEVICE BOXES WITH BRACKETS, HANGERS, ETC. DESIGNED FOR THE APPLICATION. 13. MINIMUM SIZE CONDUIT SHALL BE 3/4" UNO. CONDUIT INSTALLED WITHIN THE BUILDING IN DRY LOCATIONS WITHIN WALL, CEILINGS, OR EXPOSED NOT SUBJECT TO PHYSICAL DAMAGE SHALL BE EMT WITH STEEL SET SCREW FITTINGS. IN EXTERIOR LOCATIONS (EXCEPT FOR THE SERVICE ENTRANCE) THE CONDUIT SHALL BE EMT WITH COMPRESSION GLAND TYPE FITTINGS. UNDERGROUND CONDUIT SHALL BE PVC (SCH. 40) WITH GRC ELBOWS AND RISERS WRAPPED IN CORROSION RESISTANT MATERIALS WHERE IN DIRECT CONTACT WITH THE SOIL. 14. FLEXIBLE CONDUIT SHALL BE LIMITED TO CONNECTIONS TO LIGHT FIXTURES AND FINAL CONNECTIONS TO MOTORS OR OTHER EQUIPMENT SUBJECT TO VIBRATION. LENGTHS OF FLEXIBLE OR SEAL-TITE CONDUIT SHALL NOT BE GREATER THAN 72 INCHES. 15. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL EMPTY CONDUITS WITH 200LB RATED NYLON PULL CORD. 16. BEFORE ANY ELECTRICAL CONDUIT, BOXES, ETC. ARE COVERED (FLOOR, CEILINGS, WALLS, ETC.), THEY SHALL BE APPROVED BY THE INSPECTING OFFICER (INSPECTOR). 17. WHERE WIRE SIZE IS NOT SHOWN ON THE DRAWINGS FOR 20A, 120VAC BRANCH CIRCUITS, THE CIRCUIT SHALL CONSIST OF 2#12 (CU, THHN) + 1#12 (CU, THHN) GND IN 3/4" EMT CONDUIT. THIS WIRE SIZE SHALL BE INCREASED TO #10 (CU, THHN) FOR BRANCH CIRCUITS WITH OVERALL LENGTHS EXCEEDING 125' TO ACCOMMODATE FOR VOLTAGE DROP. REFER TO EQUIPMENT SCHEDULES, FEEDER SCHEDULES, AND NOTES ON DRAWINGS FOR ALL OTHER BRANCH CIRCUIT AND FEEDER WIRE/CONDUIT SIZING. 18. CONDUCTORS SHALL BE COPPER, 600VAC RATED, TYPE THHN/THWN-2 UNO. CONDUCTORS UP TO #10AWG SHALL BE SOLID AND CONDUCTORS #8AWG OR LARGER SHALL BE STRANDED. 19. METAL CLAD CABLING MAY BE USED BETWEEN DEVICES SUCH AS LIGHTING, RECEPTACLES, SWITCHES, ETC. UNLESS OTHERWISE REQUIRED BY THE NEC. HOME RUNS SHALL BE INSTALLED IN CONDUIT. MC CABLE SHALL NOT BE INSTALLED EXPOSED. 20. EC SHALL CLEAN THE ENTIRE ELECTRICAL SYSTEM AFTER COMPLETION OF THE INSTALLATION. REMOVE ALL FINGER PRINTS, FOREIGN MATTER, PAINT, DIRT, GREASE, AND UN-NEEDED LABELS OR STICKERS FROM FIXTURES AND EQUIPMENT. REMOVE ALL RUBBISH AND DEBRIS ACCUMULATED DURING INSTALLATION FROM THE PREMISES. 21. IT IS THE INTENT OF THE CONSTRUCTION DOCUMENTS FOR ALL DEVICES TO BE FLUSH MOUNTED AND CONDUIT/CABLING INSTALLED CONCEALED WITHIN WALLS/CEILINGS. IN AREAS WHERE CONDUIT MUST BE INSTALLED EXPOSED IT SHALL BE COORDINATED WITH THE ARCHITECT AND/OR ENGINEER. ALL EFFORTS SHALL BE MADE TO CONCEAL WIRING METHODS. 22. ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL BE SEALED WITH FIRE STOPPING, IE. 3M BRAND CAULK, PUTTY, STRIP AND SHEET FORMS, DOW CORNING 3-6548 SILICONE RTV FOAM. 23. COORDINATE LOCATION OF WALL MOUNTED DEVICES WITH CABINETRY AND OTHER WALL OBSTRUCTIONS. COORDINATE CEILING MOUNTED DEVICES WITH CEILING OBSTRUCTIONS. ANY DEVICES THAT NEED TO BE RELOCATED MUST BE BROUGHT TO THE ATTENTION OF THE ELECTRICAL ENGINEER PRIOR TO ROUGH-IN FOR NEW LOCATION. 24. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO COORDINATE PLACEMENT OF ALL DEVICES INSTALLED WITHIN THE CEILING SUCH AS LIGHTING, SPEAKERS, FIRE SPRINKLERS, SMOKE/HEAT DETECTORS, ETC. ANY EXISTING DEVICES THAT NEED TO BE RELOCATED IN ORDER TO ACCOMMODATE NEW CONSTRUCTION/REMODEL MUST BE BROUGHT TO THE ATTENTION OF THE ELECTRICAL ENGINEER PRIOR TO ROUGH-IN FOR RESOLUTION AND FURTHER DIRECTION.	SITE NOTES: 26. ELECTRICAL CONTRACTOR SHALL COORDINATE AND CONFIRM THE EXACT LOCATION OF THE POWER COMPANY SERVICE TRANSFORMER BEFORE INSTALLING THE PAD, PRIMARY CONDUIT, AND SECONDARY SERVICE LATERAL. PROVIDE LABOR AND CONDUIT, CONDUCTORS, WIRE WAYS, TRANSFORMER LUGS, METER BASES, METER CONDUIT, CONDUCTORS, CONCRETE PAD/VAULT, ETC. AS NEEDED FOR A COMPLETE ELECTRIC SERVICE TO THIS FACILITY. 27. THE EC SHALL COORDINATE LOCATION OF TELEPHONE PEDESTAL, ROUTING/SIZE OF TELEPHONE SERVICE CONDUIT, AND THE MAIN TELEPHONE SERVICE BOARD REQUIREMENTS WITH THE TELEPHONE COMPANY PRIOR TO ROUGH-IN. INSTALL A 3/4" CONDUIT WITH (1) #6 BARE COPPER CONDUCTOR FROM TELEPHONE TERMINAL BOARD (TTB) TO THE MAIN BUILDING GROUNDING SYSTEM. 28. UNDERGROUND CONDUIT FOR SITE LIGHTING SHALL BE BURIED 24" B.F.G. AND SHALL HAVE ONE (1) #10 THHN GREEN GROUND CONDUCTOR TO GROUND ALL LUMINAIRES. 29. PRIOR TO TRENCHING IN ANY AREA, THE CONTRACTOR SHALL COORDINATE WITH COMMUNICATIONS/DATA, CABLE TV, GAS, AND WATER UTILITY PROVIDERS (BLUE STAKES), AND HAVE ALL UTILITIES IN THE AREA IDENTIFIED. IN ADDITION, THE CONTRACTOR SHALL OBTAIN THE SERVICES OF A SUBCONTRACTOR SPECIALIZING IN THE LOCATION OF UNDERGROUND STRUCTURES TO IDENTIFY ANY OBSTACLES IN THE PATH OF TRENCHING PRIOR TO COMMENCING WORK. DAMAGE TO ANY UNDERGROUND STRUCTURES SHALL BE REPAIRED BY THE CONTRACTOR. LIGHTING NOTES: 30. ALL BATTERY POWERED OR CONTINUOUS BURN LUMINAIRES SHOWN ON THE PLANS, SUCH AS EXIT LIGHTS, NIGHT LIGHTS, OR EMERGENCY LIGHTS, SHALL BE CONNECTED TO THE UN-SWITCHED LEG OF THE LIGHTING CIRCUIT FEEDING THAT AREA. 31. ALL LUMINAIRES SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE AND NOT THE CEILING GRID OR OTHER NONSTRUCTURAL MEMBERS. 32. TO MAINTAIN CONSISTENT LIGHT QUALITY, FOR ANY ONE LAMP TYPE SUPPLIED, LAMPS SHALL BE OF THE SAME MANUFACTURER, SURFACE TEMPERATURE, COLOR RENDERING INDEX, LAMP EFFICACY, LUMEN OUTPUT, AND STARTING CHARACTERISTICS FOR ALL INSTALLED. 33. LIGHT FIXTURES INSTALLED IN DAMP OR WET LOCATIONS SHALL BE UL LISTED FOR INSTALLATION IN THE PROPER ENVIRONMENT. CARE SHOULD BE TAKEN TO ENSURE THAT DIFFUSERS AND LENSES ARE APPROPRIATE FOR THEIR INSTALLED USE AND PREMATURE DISCOLORATION WILL NOT RESULT DUE TO EXPOSURE TO UV LIGHT, CHEMICALS, OR OTHER CONDITIONS. 34. ELECTRICAL CONTRACTOR SHALL PROVIDE LIGHTING CONTROL SHOP DRAWINGS WITH ELECTRICAL SUBMITTAL FOR REVIEW. POWER NOTES: 35. ALL PANELBOARDS AND SWITCHBOARDS SHALL BE PERMANENTLY MARKED TO INDICATE EACH DEVICE OR EQUIPMENT WHERE THEIR POWER ORIGINATES AS PER NEC 408.48. 36. ELECTRICAL CONTRACTOR SHALL CONFIRM MINIMUM CODE (NEC) WORKING CLEARANCE BEFORE INSTALLING ANY ELECTRICAL PANELS OR CABINETS AND SHALL MOVE THE PANELS IF REJECTED BY AN INSPECTOR. IF CLEARANCE IS NOT POSSIBLE, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY IN WRITING. 37. WIRING DEVICES SHALL HAVE A NYLON COVER PLATE. COLOR SHALL BE COORDINATED WITH ARCHITECT. EXTERIOR OUTLETS SHALL HAVE CAST COVERS WITH FLIP TYPE LIDS UNO. 38. EC SHALL COORDINATE WITH EQUIPMENT SUPPLIERS ON THE EXACT LOCATIONS OF ALL EQUIPMENT AND ELECTRICAL CONNECTIONS PRIOR TO ROUGH-IN. THE EC SHALL MAKE THE FINAL CONNECTION TO ALL EQUIPMENT UNLESS OTHERWISE DIRECTED BY THE EQUIPMENT SUPPLIER. OBTAIN FROM SUPPLIERS ALL WIRING DIAGRAMS FOR EQUIPMENT PRIOR TO ANY ROUGH-IN. TO ASSURE THAT PROPER CHARACTERISTICS ARE PROVIDED, ANY INCORRECT WIRING OR DEVICES INSTALLED BY THE EC WITHOUT THE WIRING DIAGRAM SHALL BE CORRECTED AT THE EC'S EXPENSE. PROVIDE COPIES OF WIRING DIAGRAMS WITHIN EACH PIECE OF EQUIPMENT AND ADDITIONAL COPIES WITH THE OPERATION AND MAINTENANCE MANUALS. 39. EC SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR TO PROVIDE CONDUIT AND DEVICE MOUNTING BOXES FOR THERMOSTATS AND OTHER MECHANICAL CONTROLS. REFER TO MECHANICAL DRAWINGS FOR THE LOCATION OF THERMOSTATS. 40. EC SHALL PROVIDE A 20AMP, 120VAC RECEPTACLE INSTALLED AT AN ACCESSIBLE LOCATION FOR THE SERVICING OF HEATING, AIR CONDITIONING, AND REFRIGERATION EQUIPMENT PER NEC 210.63. RECEPTACLE SHALL BE OF THE GROUND FAULT CIRCUIT INTERRUPTING TYPE, INSTALLED WITHIN A CAST METAL BOX, AND WITHIN 25' OF ALL REQUIRED EQUIPMENT. DATA/TELECOM NOTES: 41. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ROUGH-IN ONLY FOR THE TELECOM/CAT6 SYSTEMS. THIS SHALL CONSIST OF A FOUR SQUARE DEVICE MOUNTING BOX WITH CONDUIT TO ABOVE ACCESSIBLE CEILING SPACE OR TO THE CEILING SPACE ABOVE IF OPEN. CABLING, JACKS, FACEPLATES, TESTING AND TERMINATIONS SHALL BE PROVIDED AND INSTALLED BY OTHERS. LOW VOLTAGE NOTES: 42. ALL LOW VOLTAGE CABLING TO BE INSTALLED WITHIN CONDUIT TO PROTECT FROM PHYSICAL DAMAGE AND CORROSION.

ELECTRICAL SYMBOL SCHEDULE			
SYMBOL	DESCRIPTION	MOUNTING	NOTES
	LIGHT FIXTURE - SURFACE OR RECESSED	SEE DRAWINGS	1
	EMERGENCY LIGHT FIXTURE - SURFACE OR RECESSED	SEE DRAWINGS	1, 2
	LIGHT FIXTURE - OPEN STRIP	SEE DRAWINGS	1
	EMERGENCY LIGHT FIXTURE - OPEN STRIP	SEE DRAWINGS	1, 2
	LIGHT FIXTURE - WALL MOUNTED	WALL	1
	EMERGENCY LIGHT FIXTURE - WALL MOUNTED	WALL	1, 2
	LIGHT FIXTURE - DOWNLIGHT	CEILING	1
	EMERGENCY LIGHT FIXTURE - DOWNLIGHT	CEILING	1, 2
	LIGHT FIXTURE - WALL WASH DOWNLIGHT	CEILING	1
	LIGHT FIXTURE - CEILING MOUNTED	CEILING	1
	LIGHT FIXTURE - PENDANT / CHANDELIER	CEILING	1
	LIGHT FIXTURE - WALL BRACKET	WALL	1
	EMERGENCY LIGHT FIXTURE - WALL BRACKET	WALL	1, 2
	TRACK LIGHTING	SURFACE	1
	EXIT SIGN - WALL MOUNT	WALL	1, 2, 3
	EXIT SIGN - CEILING MOUNT	CEILING	1, 2, 3
	EXIT SIGN W/ EMERGENCY HEADS - WALL MOUNT	WALL	1, 2, 3
	EXIT SIGN W/ EMERGENCY HEADS - CEILING MOUNT	CEILING	1, 2, 3
	DUAL HEAD EMERGENCY LIGHT FIXTURE	WALL	1, 2
	POLE LIGHT FIXTURE	POLE	1
	STEP LIGHT FIXTURE	WALL	1
	LIGHT BOLLARD	SURFACE	1
	GROUND MOUNTED / IN-GRADE LIGHT FIXTURE	GROUND	1
	OCCUPANCY / VACANCY SENSOR - CEILING MOUNT	CEILING	1
	TIME CLOCK - 7 DAY	60"	
	PHOTO-ELECTRIC CELL WITH RELAY	SURFACE	1
	CURRENT LIMITING DEVICE	SURFACE	1
	WALL OCCUPANCY / VACANCY SENSOR SWITCH	48" TO TOP	
	SINGLE POLE SWITCH	48" TO TOP	
	THREE WAY SWITCH	48" TO TOP	
	FOUR WAY SWITCH	48" TO TOP	
	DIMMER SWITCH	48" TO TOP	
	LOW VOLTAGE SWITCH	48" TO TOP	
	TIMER SWITCH - 30 MINUTE	48" TO TOP	
	PILOT LIGHT SWITCH	48" TO TOP	
	THERMAL OVERLOAD SWITCH	48" TO TOP	
	2-POLE SWITCH	48" TO TOP	
	SINGLE POLE KEYED SWITCH	48" TO TOP	
	DUPLEX OUTLET, 20A, 120VAC	18" UNO	
	DUPLEX OUTLET, 20A, 120VAC - GFCI	18" UNO	
	DUPLEX OUTLET - SPLIT WIRED	18" UNO	
	DUPLEX OUTLET - ISOLATED GROUND	18" UNO	
	DUPLEX OUTLET WITH USB-A & USB-C PORTS	18" UNO	
	DUPLEX OUTLET - OCCUPANCY SENSOR CONTROLLED	18" UNO	
	DUPLEX OUTLET, 20A, 120VAC - CEILING	CEILING	
	DUPLEX OUTLET, 20A, 120VAC - FLOOR	FLOOR	
	FOURPLEX OUTLET, 20A, 120VAC	18" UNO	
	FOURPLEX OUTLET, 20A, 120VAC - GFCI	18" UNO	
	FOURPLEX OUTLET - ISOLATED GROUND	18" UNO	
	FOURPLEX OUTLET, 20A, 120VAC - CEILING	CEILING	
	FOURPLEX OUTLET, 20A, 120VAC - FLOOR	FLOOR	
	APPLIANCE OUTLET - 208/240V SINGLE PHASE	18" UNO	
	APPLIANCE OUTLET - 208/480V 3-PHASE	18" UNO	
	SINGLE/SIMPLEX OUTLET, 20A, 120VAC	18" UNO	
	MULTI-OUTLET METAL SURFACE RACEWAY	44" UNO	5
	DATA OUTLET	18" UNO	
	TELEPHONE OUTLET	18" UNO	
	DUAL TELEPHONE/DATA OUTLET	18" UNO	
	DATA OUTLET - FLOOR	FLOOR	
	DUAL TELEPHONE/DATA OUTLET - FLOOR	FLOOR	
	CEILING DATA OUTLET/ WIRELESS ACCESS POINT	CEILING	
	CABLE TELEVISION OUTLET	18" UNO	

SHEET INDEX	
E000	ELECTRICAL GENERAL SHEET
E002	ELECTRICAL SITE PLAN
E101	LIGHTING PLAN
E201	POWER PLAN
E501	ELECTRICAL DETAILS
E601	ELECTRICAL SCHEDULES

	JUNCTION BOX	SURFACE	
	WALL JUNCTION BOX	18" UNO	
	FLOOR JUNCTION BOX	FLOOR	
	DISCONNECT SWITCH - NON-FUSED	60" UNO	4
	DISCONNECT SWITCH - FUSED	60" UNO	4
	DISCONNECT SWITCH - SHUNT TRIP	60" UNO	4
	COMBINATION MAGNETIC STARTER / DISCONNECT	60" UNO	
	MOTOR STARTER	60" UNO	
	CONTACTOR	60" UNO	
	MOTOR	SURFACE	
	METER - PLAN VIEW	WALL	
	PUSH BUTTON SWITCH	48" TO TOP	
	EMERGENCY POWER SHUTOFF SWITCH	48" TO TOP	
	PANELBOARD - SURFACE MOUNTED	78" TO TOP	
	PANELBOARD - RECESSED	78" TO TOP	
	TRANSFORMER - PLAN VIEW	PAD/FLOOR	
	TELEPHONE TERMINAL BOARD	WALL	

	CIRCUIT BREAKER		METER - ONE-LINE
	MLO PANEL - ONE-LINE		TRANSFORMER - ONE-LINE
	MCB PANEL - ONE-LINE		PAD MOUNT XFMR - ONE-LINE
	AUTOMATIC TRANSFER SWITCH		GROUND SLEEVE - ONE-LINE
	CT ENCLOSURE - ONE-LINE		FUSED DISCONNECT - ONE-LINE
	CURRENT TRANSFORMER		FUSED SWITCH
	OH RISER		GROUND
	KEYED NOTE TAG		CABLE/WIRE SIZE TAG
	MECH/ELEC. EQUIPMENT TAG		DETAIL/VIEW NUMBER
	OTHER EQUIPMENT TAG		DETAIL/VIEW REFERENCE TAG
			SHEET NUMBER

	WIRING / CONDUIT		UNDERGROUND/FLOOR WIRING
	CONDUIT TURNED UP		CONDUIT TURNED DOWN
CIRCUIT HOME RUN TO PANEL: # OF ARROWHEADS INDICATE # OF CIRCUITS (SEPARATE NEUTRAL PER CIRCUIT). BOTH EX. INCLUDE AN EQUIP. GROUND.			

NOTES	
1. SEE LIGHT FIXTURE SCHEDULE FOR TYPE, MOUNTING, AND OTHER SPECIFICS.	
2. CONNECT EMERGENCY AND/OR EXIT LIGHTS TO THE UNSWITCHED SIDE OF THE AREA LIGHTING BRANCH CIRCUIT.	
3. ARROW DENOTES EXIT DIRECTION.	
4. USE HEAVY DUTY FOR 480 VOLT.	
5. PROVIDE RACEWAY WITH OUTLETS 12" ON CENTER UNO.	
6. MOUNT SWITCH AT DOOR JAM PER MANUFACTURER'S INSTRUCTIONS.	
7. PROVIDE UL LISTED DEVICE TO BE USED WITH THE FIRE ALARM PANEL/SYSTEM OR PROVIDE A MONITOR MODULE TO CONNECT INTO FIRE ALARM SYSTEM.	

ABBREVIATIONS	
AFCI - ARC FAULT CKT INTERRUPTER AFF - ABOVE FINISHED FLOOR AFG - ABOVE FINISHED GRADE AIC - AMPS INTERRUPTING CAPACITY AL - ALUMINUM ATS - AUTOMATIC TRANSFER SWITCH BC - BARE COPPER BFC - BELOW FINISHED CEILING BFG - BELOW FINISHED GRADE CKT - CIRCUIT CND. OR C. - CONDUIT CLG - INSTALLED IN CEILING C.R. - CORD REEL CT - CURRENT TRANSDUCER CU - COPPER (E) - EXISTING TO REMAIN EC - ELECTRICAL CONTRACTOR EM - EMERGENCY (F) - FUTURE FACP - FIRE ALARM CONTROL PANEL FLA - FULL LOAD AMPS FVNR - FULL VOLTAGE NON REVERSING GC - GENERAL CONTRACTOR GFCI - GROUND FAULT CKT INTERRUPTER GND - GROUND HP - HORSEPOWER IG - ISOLATED GROUND KW - KILOWATTS LCP - LIGHTING CONTROL PANEL LTG - LIGHTING LV - LOW VOLTAGE MC - MECHANICAL CONTRACTOR MCA - MINIMUM CIRCUIT AMPS MCB - MAIN CIRCUIT BREAKER	MCC - MOTOR CONTROL CENTER MDP - MAIN DISTRIBUTION PANEL MLO - MAIN LUGS ONLY MOCP - MAX. OVERCURRENT PROTECTION (N) - NEW NIC - NOT IN CONTRACT NEC - NATIONAL ELECTRICAL CODE NFPA - NATIONAL FIRE PROT. ASSN. NL - NIGHT LIGHT NR - NOT REQUIRED NTS - NOT TO SCALE PC - PLUMBING CONTRACTOR PH - PHASE PNL - PANEL POC - POINT OF CONNECTION POS - POINT OF SALE (R) - RELOCATED REC - RECEPTACLES RMC - RIGID METAL CONDUIT SCBA - SELECT COLOR BY ARCHITECT SCA - SHORT CIRCUIT AMPERES SES - SERVICE ENTRANCE SWITCHGEAR SPD - SURGE PROTECTIVE DEVICE TL - TWIST LOCK TTB - TELEPHONE TERMINAL BOARD TR - TAMPER RESISTANT TYP - TYPICAL UNO - UNLESS NOTED OTHERWISE VA - VOLT/AMPS VIF - VERIFY IN FIELD VR - VANDAL RESISTANT WP - WEATHERPROOF/NEMA 3R WU - FURNISHED WITH UNIT XFMR - TRANSFORMER

UTILITY COORDINATION

BRIGHAM CITY PUBLIC POWER
CONTACT: TORY DAHLGROM
(435) 226-1471
TDHOLGREN@BCUTAH.GOV



ROCKY MOUNTAIN
CONSULTING ENGINEERS, INC.
2332 West 12600 South, Suite F | Riverton, UT 84065
(801) 566-0503 www.rmceut.com Project# 26095

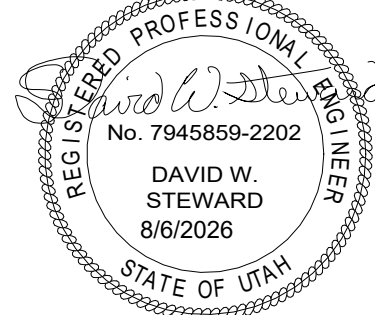
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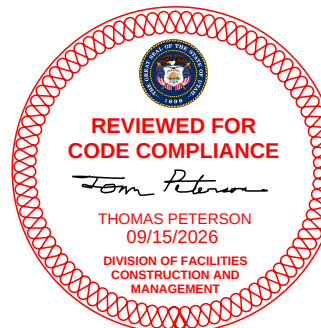
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P.O. Box 517
Kaysville, Utah 84037
1 801.298.1368
info@spe-architect.com
www.spe-architect.com

PROFESSIONAL STAMP:



CODE OFFICIAL STAMP:



PROJECT NAME:

UDOT BRIGHAM CITY
TOW PLOW STORAGE BUILDING

1325 POWER PLANT ROAD
BRIGHAM CITY, UTAH 84302

REVISED:

NO. DATE DESCRIPTION

ISSUED:

NO. DATE DESCRIPTION

01 07/17/26 CONSTRUCTION BID SET

OWNER PROJECT #: 26381900

SPE PROJECT #: 26-18

DRAWN BY: AL

CHECKED BY: DS

DESIGNED BY: AL

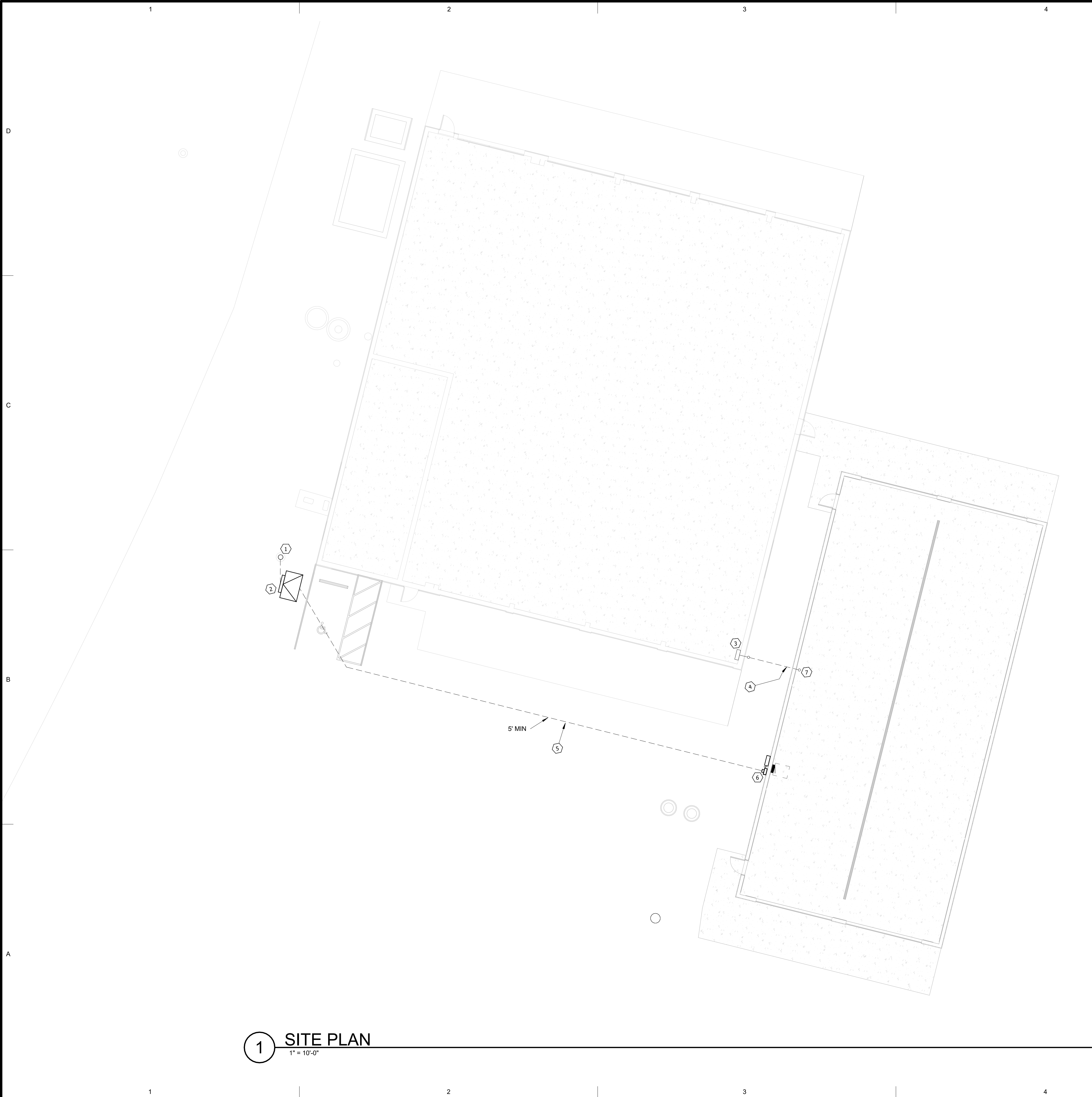
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SHEET TITLE:

**ELECTRICAL
GENERAL SHEET**

SHEET NUMBER:

E000



1 SITE PLAN
1" = 10'-0"

ROCKY MOUNTAIN
CONSULTING ENGINEERS, INC.
2332 West 12600 South, Suite F | Riverton, UT 84065
(801) 566-0503 www.rmceut.com Project# 26095

- KEYED NOTES**
1.

EXISTING UTILITY POLE. PROVIDE 3" C GRC RISER UP POLE TO WEATHERHEAD AS PER BCP UTILITY REQUIREMENTS.
2.

24"x12"x18" TRAFFIC RATED IN-GRADE PULL BOX (QUAZITE OR EQUAL). SERVICE LATERAL CONDUCTORS TO BE INSTALLED FROM BUILDING TO THIS BOX TO BE SPLICED BY BCP TO THEIR OVER HEAD SERVICE CONDUCTORS.
3.

12"x12"x4" SCREW COVER BOX (MOUNT AT 36" AFF TO TOP OF BOX).
4.

PROVIDE (1) 2" C WITH PULL CORD FROM EXISTING BUILDING TO NEW BUILDING. PATCH AND REPAIR BUILDING AND SITE AFTER INSTALLATION.
5.

SAW CUT, TRENCH, BACK FILL AND PATCH ASPHALT FOR NEW SERVICE LATERAL CONDUCTORS.
6.

NEW 200A, 120/208V, THREE PHASE METER AND SERVICE DISCONNECT. MOUNT TO SIDE OF BUILDING.
7.

STUB 12" AFF AND CAP.
- GENERAL NOTES**
- A.

ALL SITE CONDUIT IS TO BE BURIED IN ACCORDANCE WITH NEC TABLE 300.5 UNLESS OTHERWISE NOTED. ALL CONDUIT RUNS SHALL HAVE RED MARKING TAPE BURIED 12" ABOVE CONDUIT RUNS.

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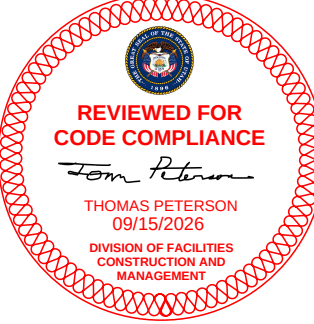


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P.O. Box 517
Kaysville, Utah 84037
1 801.298.1368
info@spe-architect.com
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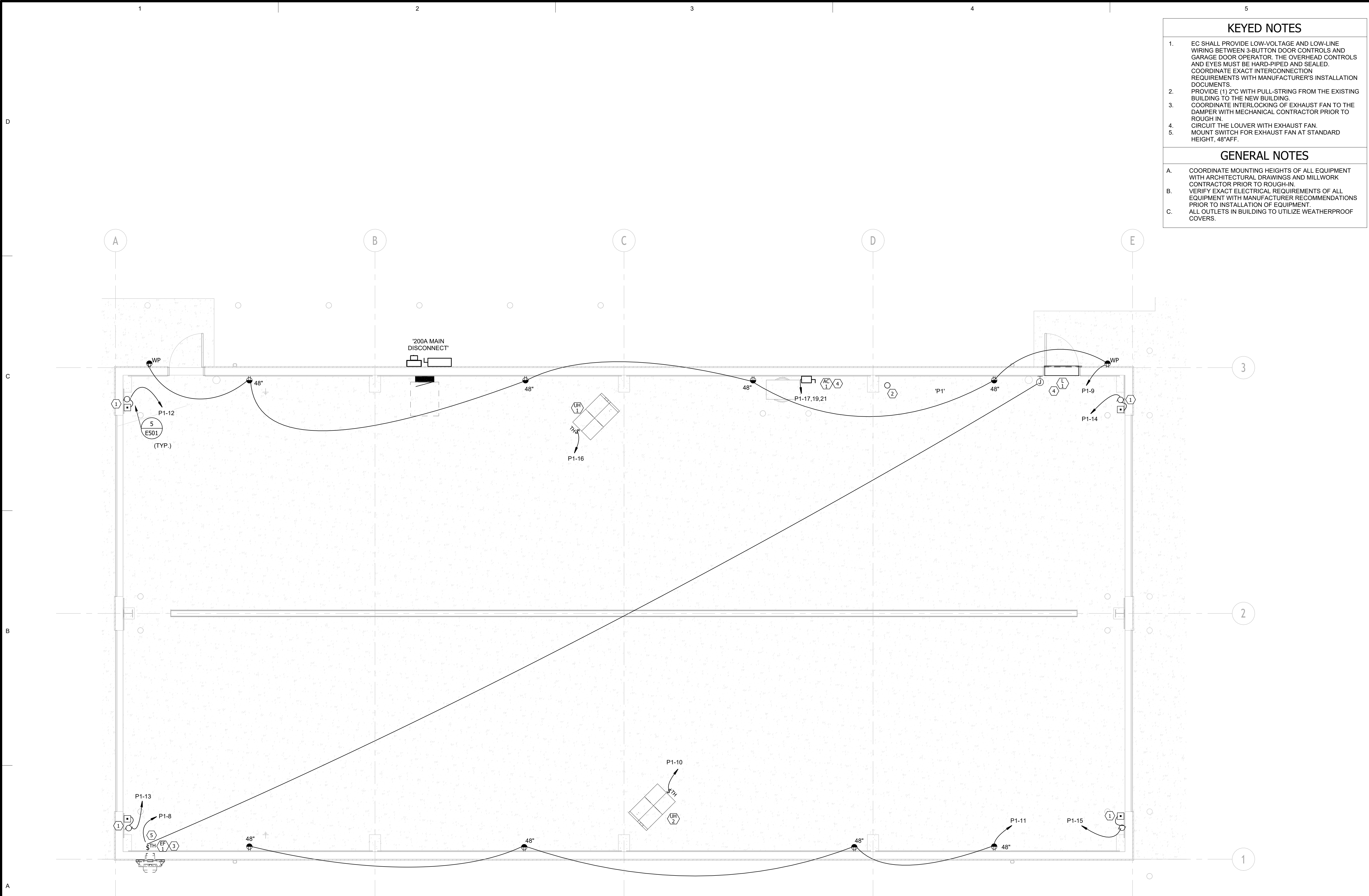
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SHEET TITLE:

ELECTRICAL SITE PLAN

SHEET NUMBER:

E002



1 POWER PLAN
1/4" = 1'-0"

- KEYED NOTES
1.

EC SHALL PROVIDE LOW-VOLTAGE AND LOW-LINE WIRING BETWEEN 3-BUTTON DOOR CONTROLS AND GARAGE DOOR OPERATOR. THE OVERHEAD CONTROLS AND EYES MUST BE HARD-PIPED AND SEALED. COORDINATE EXACT INTERCONNECTION REQUIREMENTS WITH MANUFACTURER'S INSTALLATION DOCUMENTS.
2.

PROVIDE (1) 2" C WITH PULL-STRING FROM THE EXISTING BUILDING TO THE NEW BUILDING.
3.

COORDINATE INTERLOCKING OF EXHAUST FAN TO THE DAMPER WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH IN.
4.

CIRCUIT THE LOUVER WITH EXHAUST FAN.
5.

MOUNT SWITCH FOR EXHAUST FAN AT STANDARD HEIGHT, 48" AFF.
- GENERAL NOTES
- A.

COORDINATE MOUNTING HEIGHTS OF ALL EQUIPMENT WITH ARCHITECTURAL DRAWINGS AND MILLWORK CONTRACTOR PRIOR TO ROUGH-IN.
- B.

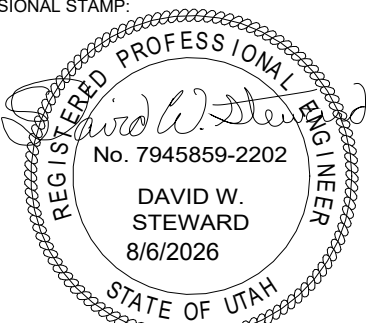
VERIFY EXACT ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT WITH MANUFACTURER RECOMMENDATIONS PRIOR TO INSTALLATION OF EQUIPMENT.
- C.

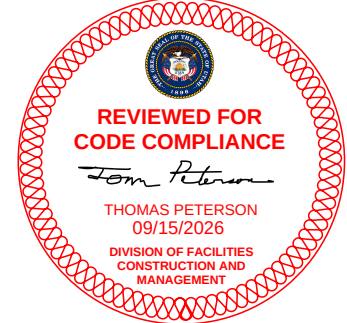
ALL OUTLETS IN BUILDING TO UTILIZE WEATHERPROOF COVERS.

ARCHITECT'S INFORMATION:



SPE ARCHITECTS
P.O. Box 517
Kaysville, Utah 84037
1 801.298.1368
info@spe-architect.com
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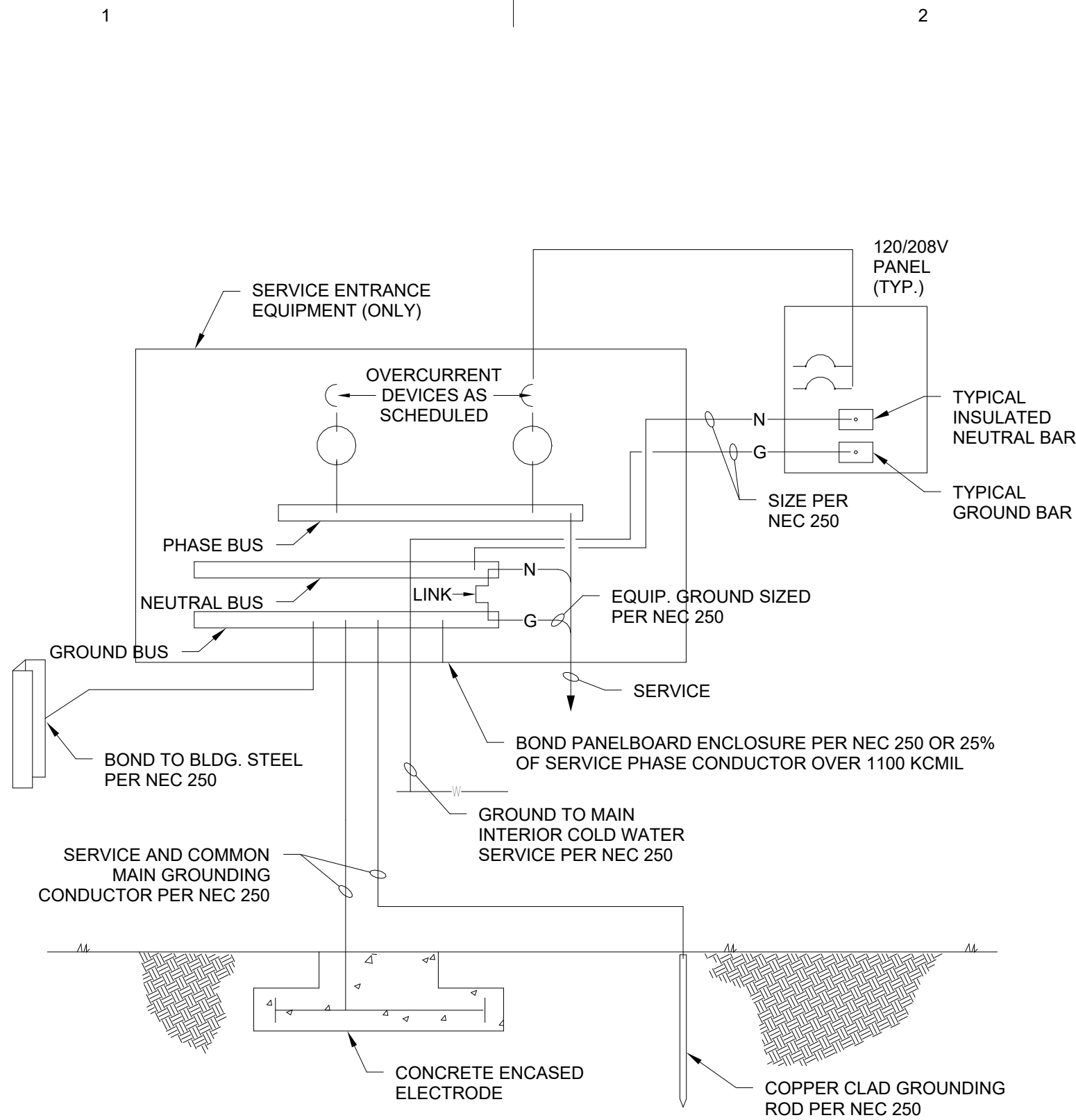
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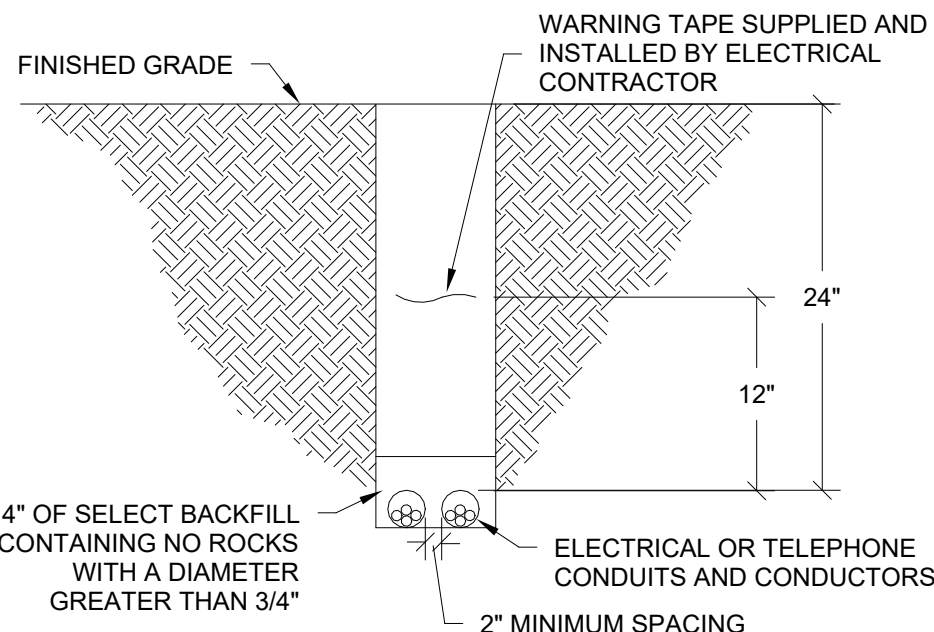
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SHEET TITLE:
POWER PLAN

SHEET NUMBER:
E201



3 GROUNDING/BONDING DETAIL - 208V
NO SCALE



- NOTES:
1. ELECTRICAL SERVICE CONDUIT AND CONDUCTORS ARE TO BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. BURIAL DEPTH SHALL BE PER NEC TABLE 300.5
 2. TELEPHONE SERVICE CONDUIT SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. TELEPHONE SERVICE CABLEING SHALL BE PROVIDED BY THE LOCAL TELEPHONE COMPANY. COORDINATE WITH LOCAL TELEPHONE COMPANY FOR ANY SPECIFIC REQUIREMENTS.
 3. THE QUANTITY/SIZE OF CONDUITS AND/OR CONDUCTORS SHALL BE AS CALLED OUT ON THE ELECTRICAL DRAWINGS. COORDINATE WITH THE ELECTRICAL ENGINEER.
 4. WHERE TELECOMMUNICATIONS AND ELECTRICAL SHARE THE SAME TRENCH, A MINIMUM 12" CLEARANCE SHALL BE MAINTAINED BETWEEN CONDUITS.

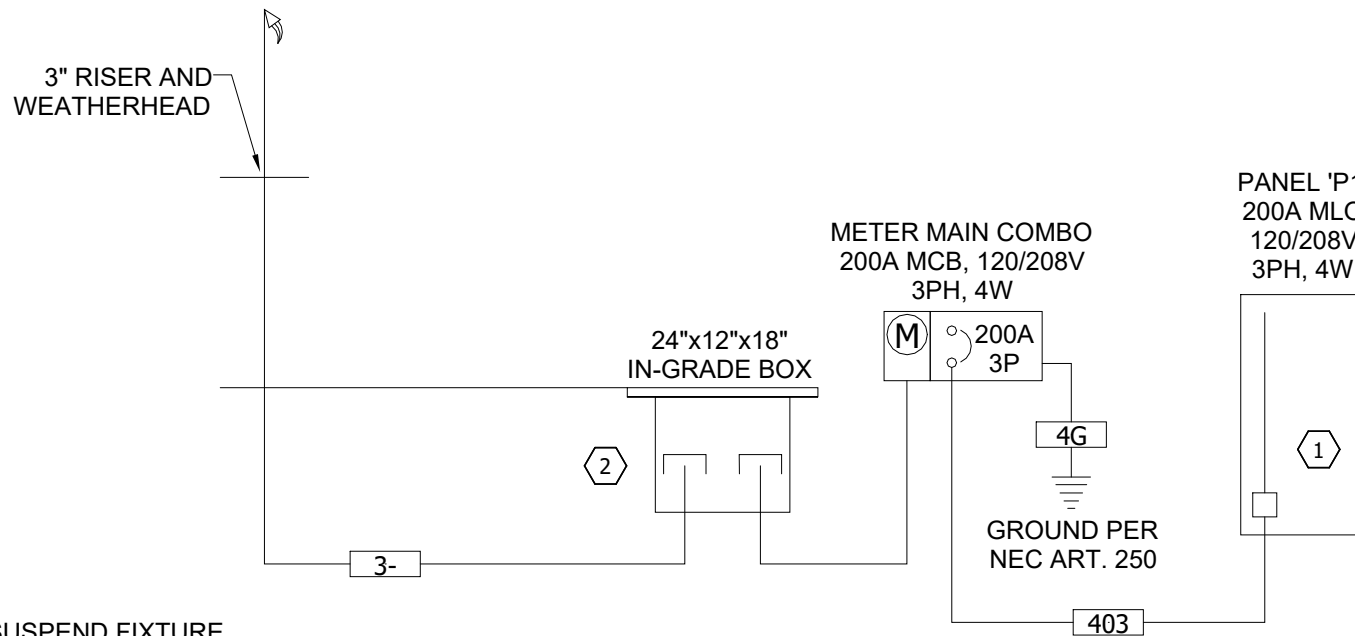
2 UNDERGROUND CONDUIT DETAIL
NO SCALE

MARK	AMPS	CONDUIT	CU/AL	CONDUCTORS (TOTAL)			NOTES
				PHASE	NEUTRAL	GROUND	
403	200	3"	CU	(3) 3/0	3/0	6	1
4G	-	-	CU	-	-	4	2
3-	-	3"	-	-	-	-	3

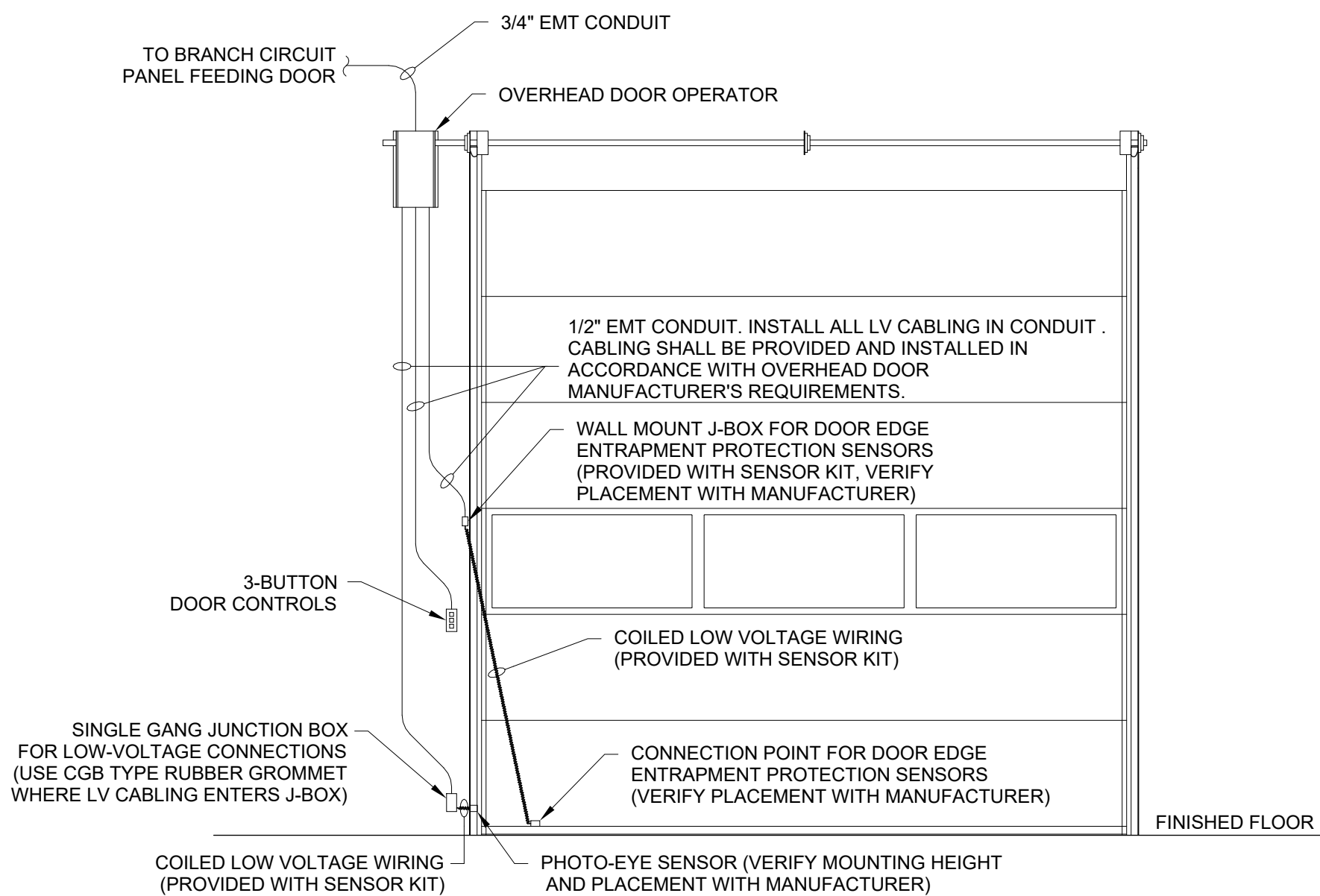
NOTES:

1. CONDUCTOR INSULATIONS TO BE RATED THWN-2/THHN 90°C.
2. GROUNDING ELECTRODE CONDUCTOR TO BE BONDED TO ALL AVAILABLE GROUNDING ELECTRODES.
3. CONTRACTOR TO PROVIDE SERVICE LATERAL CONDUIT FROM THE TRANSFORMER TO THE METER. CONDUCTORS ARE TO BE PROVIDED, INSTALLED, AND TERMINATED BY RMP.

FAULT CURRENT CALCULATIONS		
208 Volt		
Panel	METER	P1
Feed From	UTIL XFMR	METER
Available Fault Current	13027	7104
(L) Length to panel	107	7
Conduit Type (P,S)	P	P
Conductor Size	3/0	3/0
Conductor Type (c,a)	C	C
No of Runs	1	1
C - from chart	13923	13923
Voltage	208	208
f	0.83364264	0.02974264
m	0.54536254	0.97111644
I s.c. at Panel	7104	6899

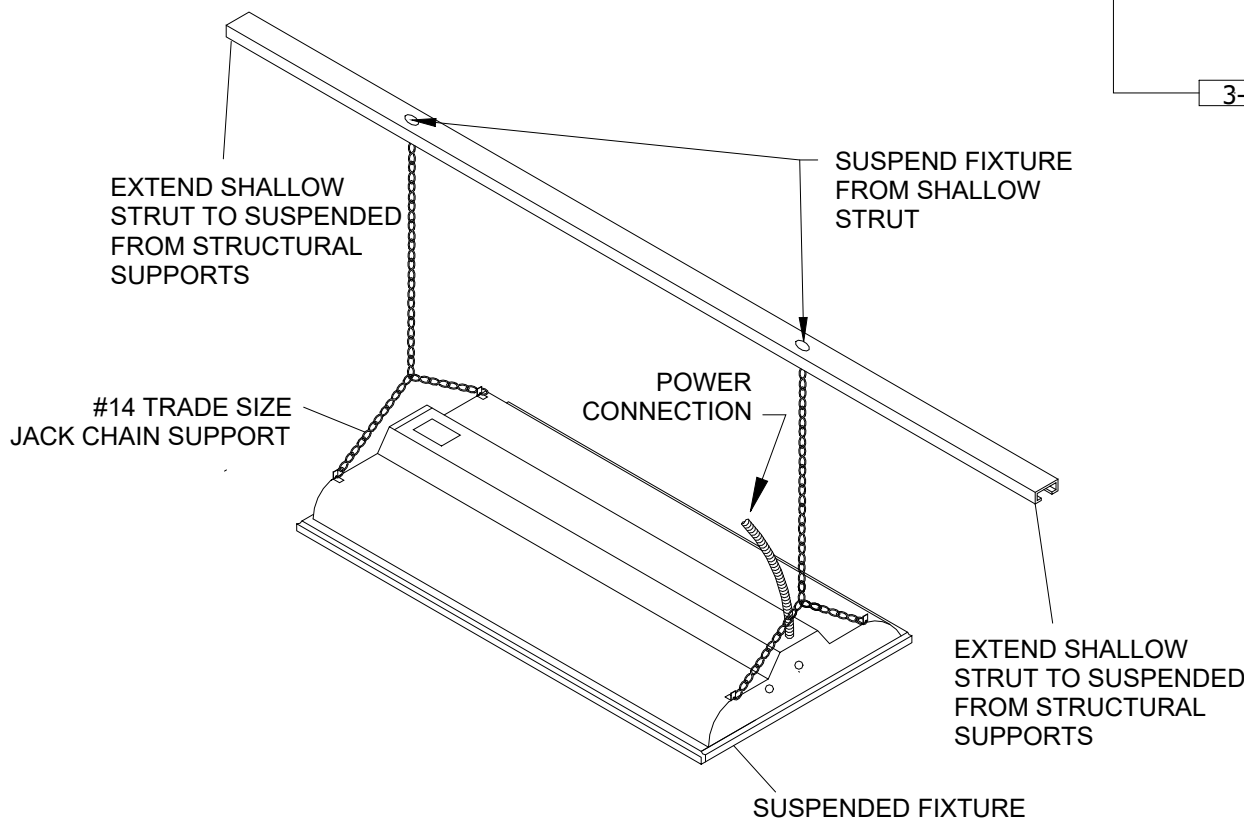


1 ONE-LINE DIAGRAM
NO SCALE



- NOTES:
1. NOT ALL SAFETY SENSORS SHOWN IN THIS DETAIL MAY BE REQUIRED FOR THIS PROJECT. EC SHALL VERIFY WITH ARCHITECT AND OWNER REGARDING WHICH SENSOR PACKAGES ARE BEING INSTALLED ON OVER HEAD DOORS.
 2. COORDINATE EXACT MOUNTING HEIGHTS AND CONNECTION LOCATIONS WITH MANUFACTURER'S INSTALLATION DOCUMENTS PRIOR TO ROUGH-IN.
 3. MINIMIZE EXPOSED LOW VOLTAGE CONDUCTOR LENGTH FOR OVERHEAD DOOR SENSOR WIRING.
 4. USE COMPRESSION GLAND FITTINGS FOR ALL CONDUIT AT OVERHEAD DOOR LOCATIONS.

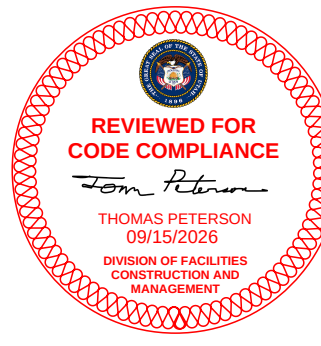
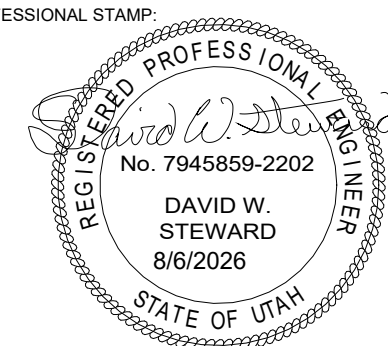
5 OVERHEAD DOOR CONTROLS
NO SCALE



4 SUSPENDED FIXTURE DETAIL
NO SCALE



SPE ARCHITECTS
P.O. Box 517
Kaysville, Utah 84037
1 801.298.1368
info@spe-architect.com
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**ELECTRICAL
DETAILS**

SHEET NUMBER:
E501

Branch Panel: P1													
Location: SNOWFLOW STORAG...					Volts: 120/208 Wye					A.I.C. Rating:			
Supply From:					Phases: 3					Mains Type: MLO			
Mounting: SURFACE					Wires: 4					Mains Rating: 225 A			
Enclosure: NEMA 1													
CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	LTG - NORTH	20 A	1	528	528					1	20 A	LTG - MIDDLE	2
3	LTG - SOUTH	20 A	1			528	150			1	20 A	LTG - EXTERIOR	4
5	SPARE	20 A	1					0	0	1	20 A	SPARE	6
7	SPARE	20 A	1	0	240					1	20 A	EXHAUST FAN EF-1	8
9	REC - NORTH	20 A	1			1080	396			1	20 A	UNIT HATER UH-2	10
11	REC - SOUTH	20 A	1					720	2960	1	20 A	MOTOR EAST	12
13	MOTOR EAST	20 A	1	2960	2960					1	20 A	MOTOR WEST	14
15	MOTOR WEST	20 A	1			2960	396			1	20 A	UNIT HEATER UH-1	16
17								2005	0	2	20 A	SPARE	18
19	AIR COMPRESSOR AC-1	30 A	3	2005	0								20
21						2005	500			1	20 A	LCP	22
23	SPARE	20 A	1					0	0	1	20 A	SPARE	24
25	SPARE	20 A	1	0	0					1	20 A	SPARE	26
27	SPARE	20 A	1			0	0			1	20 A	SPARE	28
29	SPARE	20 A	1					0	0	1	20 A	SPARE	30
31	SPARE	20 A	1	0	0					1	20 A	SPARE	32
33	SPARE	20 A	1			0	0			1	20 A	SPARE	34
35	SPARE	20 A	1					0	0	1	20 A	SPARE	36
37	SPARE	20 A	1	0	0					1	20 A	SPARE	38
39	SPARE	20 A	1			0	0			1	20 A	SPARE	40
41	SPARE	20 A	1					0	0	1	20 A	SPARE	42
Total Load:				9221 VA		8015 VA		5685 VA					
Total...				80 A		70 A		47 A					
Load Classification		Connected Load		Demand Factor		Estimated...		Panel Totals					
Motor		17856 VA		108.42%		19360 VA							
Other		1032 VA		100.00%		1032 VA		Total Conn. Load: 22922 VA					
Receptacle		1800 VA		100.00%		1800 VA		Total Est. Demand: 24860 VA					
Lighting		1734 VA		125.00%		2168 VA		Total Conn.: 64 A					
Misc		500 VA		100.00%		500 VA		Total Est. Demand: 69 A					
Notes:													

EQUIPMENT SCHEDULE																							
MARK	DESCRIPTION	ELECTRICAL											STARTER		OVERCURRENT PROTECTION		REMARKS						
		V	PH	KW	HP	MCA	FLA	MOCP	CONDUIT	WIRE		GND.	NEMA	DISCONNECT	FUSE								
									SIZE	QTY.	SIZE		SIZE	SIZE	SIZE								
UH-1	UNIT HEATER	120	1				3.3	20	3/4"	2	12	12	-	-	-	4A							
UH-2	UNIT HEATER	120	1				3.3	20	3/4"	2	12	12	-	-	-	4A							
EF-1	EXHAUST FAN	120	1				1	20	3/4"	2	12	12	-	-	-	4A							
L-1	LOUVER	120	1				1	20	3/4"	2	12	12	-	-	-	5A							
AC-1	AIR COMPRESSOR	208	3		5		16.7	30	3/4"	3	10	10	-	-	-	2A							
NOTE: COORDINATE FINAL EQUIPMENT CONNECTIONS WITH EQUIPMENT PROVIDER PRIOR TO ROUGH-IN. VERIFY ALL MOUNTING HEIGHTS.																							
REMARKS:																							
1. FUSED DISCONNECT SWITCH					10. REDUCED VOLTAGE STARTER					13. DIRECT CONNECTION													
2. NON-FUSED DISCONNECT SWITCH					11. VARIABLE FREQUENCY DRIVE					14. DUCT DETECTOR IN RETURN DUCT													
3. BREAKER IN ENCLOSURE					12. RECEPTACLE/SPECIAL PURPOSE OUTLET/ETC.					15. SWITCH WITH LIGHTS													
4. THERMAL OVERLOAD SWITCH																							
5. TOGGLE SWITCH					A. FURNISHED, INSTALLED AND CONNECTED UNDER DIVISION 26																		
6. MAGNETIC STARTER					B. FURNISHED AND INSTALLED UNDER ANOTHER DIVISION REQUIRING CONNECTION UNDER DIVISION 26																		
7. MAGNETIC STARTER/NON-FUSED DISCONNECT SWITCH					C. FURNISHED UNDER ANOTHER DIVISION BUT INSTALLED AND CONNECTED UNDER DIVISION 26																		
8. MAGNETIC STARTER/FUSED DISCONNECT COMBINATION					D. FURNISHED, INSTALLED, AND CONNECTED UNDER ANOTHER DIVISION																		
9. MAGNETIC STARTER/BREAKER COMBINATION					E. FURNISHED AND INSTALLED UNDER DIVISION 26 REQUIRING CONNECTION UNDER ANOTHER DIVISION																		

LIGHT FIXTURE SCHEDULE								
TYPE	MANUFACTURER	CATALOG NO.	VOLTAGE	LAMPING	CONTROL	MOUNTING	LOAD(VA)	DESCRIPTION
HB	LITHONIA OR APPROVED EQUAL	CPHB 12000LM SEF GCL WD MVOLT GZ10 40K 80CRI	MVOLT	LED	0-10V	COORDINATE MOUNTING KIT WITH LIGHTING VENDOR AND OWNER PRIOR TO ORDERING.	88	LED HIGH BAY. VERIFY FINAL MOUNTING HEIGHT WITH OWNER.
				12,000 LUMENS				
				4000K				
HBE	SAME AS TYPE 'HB' EXCEPT WITH EMERGENCY BATTERY BACKUP							
OW1	LITHONIA OR APPROVED EQUAL	DSXW1 LED P2 40K 80CRI T3M MVOLT SRM PE PIR1FC3V SF SCBA	MVOLT	LED	0-10V	WALL	15	WALL PACK WITH PHOTOCCELL AND OCCUPANCY SENSOR. SELECT COLOR BY ARCHITECT
				2200 LUMENS				
				4000K				
OWE	SAME AS TYPE 'OW1' EXCEPT WITH EMERGENCY BATTERY BACKUP							
EMX	LITHONIA OR APPROVED EQUAL	LHQM LED G M6	MVOLT	LED	-	WALL	4.3	THERMOPLASTIC EXIT SIGN WITH 2 LED LAMP HEADS AND GREEN LETTERING. 1 FC AVG OVER 24" DISTANCE AT 7.5' MOUNTING HEIGHT
NOTES:								
1. ALL LIGHT FIXTURES SHOWN HALF SHADED SHALL BE PROVIDED WITH AN EMERGENCY BATTERY PACK CAPABLE OF PROVIDING 90 MIN. OF EGRESS ILLUMINATION.								
2. ALL LIGHTING VALUE ENGINEERING PROVIDED FOR THIS PROJECT SHALL BE SUBMITTED TO THE ELECTRICAL ENGINEER FOR REVIEW AND APPROVAL AFTER THE PROJECT HAS BEEN BID AND AWARDED. ANY CREDITS FOR VE SHALL BE FOR THE TIME TO COMPENSATE OUR OFFICE FOR ENGINEERING REVIEW AND VERIFICATION OF BRANCH CIRCUIT LOADING AND/OR ENERGY CODE COMPLIANCE. NO VE SUBMITTALS WILL BE APPROVED WITHOUT THIS PROCESS IN PLACE. VE SUBMITTALS SHALL INCLUDE PHOTOMETRIC ANALYSIS TO ENSURE NEW LIGHT FIXTURES PROVIDE COMPARABLE LIGHT LEVELS TO THOSE ORIGINALLY DESIGNED.								
3. PRIOR APPROVALS SHALL BE SUBMITTED TO OUR OFFICE NO LESS THAN 5 BUSINESS DAYS OF THE PROJECT BID DATE. ANYTHING SUBMITTED AFTER THIS TIME FRAME WILL NOT BE REVIEWED AND WILL BE CONSIDERED NON-APPROVED FOR BIDDING PURPOSES. ALL LIABILITY ASSOCIATED WITH NON-APPROVED FIXTURES THAT DO NOT MEET THE PROJECT REQUIREMENTS WILL REST SOLELY WITH THE CONTRACTOR.								
4. MANUFACTURER SHALL PROVIDE SEISMIC SUPPORT WITH FIXTURES OVER 20 LBS.								

LIGHTING RELAY SCHEDULE									
I.D.:				PART #:		ARP INTENC08 NLT			
LOCATION:				ENCLOSURE DIMENSION:			14.25"H x 14.25"W x 4.00"D		
SUPPLY CIRCUIT:		P1-5		NEMA RATING:		NEMA 1			
VOLTAGE:		120V							
RELAY:	LINE FEED:	DESCRIPTION:	LV SW:	NOTES:					
				A	B	C	D	E	
1	P1-4	LTG - EXTERIOR	LV \$			X			
2	P1-1	LTG - NORTH		X					
3	P1-2	LTG - MIDDLE		X					
4	P1-3	LTG - SOUTH		X					
5		SPARE							
6		SPARE							
7		SPARE							
8		SPARE							
PROGRAMMING NOTES:									
A.	TIMED ON / TIMED OFF								
B.	TIMED ON / PHOTOCELL OFF								
C.	PHOTOCELL ON / TIMED OFF								
D.	PHOTOCELL ON / PHOTOCELL OFF								
E.	OTHER								



SPE ARCHITECTS
P.O. Box 517
Kaysville, Utah