

Weber County Development Process

In an effort to streamline the building permit process, Weber County has produced this packet as a means to assist you in understanding the application procedure and requirements when applying for a building permit. This packet includes the necessary submittal checklists outlining the required information you will need to prepare and provide for a complete building permit submittal.

Prior to any site or construction designs, please contact our office for assistance in determining if the property is considered a "Lot of Record" and if the building lot falls within a potential geologic hazard area. If it is determined that the lot is not considered a "Lot of Record", the subdivision process will need to be approved prior to accepting any development plans. If a potential geologic hazard exists, a site reconnaissance letter or a geologic and geotechnical report addressing the hazards prepared and signed by a qualified geologist and geotechnical engineer will be required at the time of building permit submittal.

The following materials have been included in this application packet for your convenience:

- Building Permit Submittal Checklist
- Building Permit Application
- Example site plan

Incomplete applications will not be accepted, receipted, or processed. In order to adequately process your building permit request, the following materials will be required at the time of submission of your application:

- Complete and Signed Building Permit Application
- All items listed on the attached Submittal Checklist (incomplete applications will not be accepted)
- Geologic and/or geotechnical studies or reports regarding the building lot if it is found to be in a potential geologic-hazardous area
- Other supporting materials as applicable

Weber County requires that adequate proof of culinary and waste water approvals have been received and/or the applicable connection fees have been paid to the servicing providers. These items will not be required at the initial submittal stage; however these items will be required to be submitted to our office prior to the issuance of the building permit.

By following the outlined procedures your applications will be processed and reviewed in the timeliest manner possible. If you have any further questions regarding the required materials, process, or ordinances for building permit applications, please feel free to contact our office at the address and phone number listed below.



Residential Building Permit Submittal Checklist

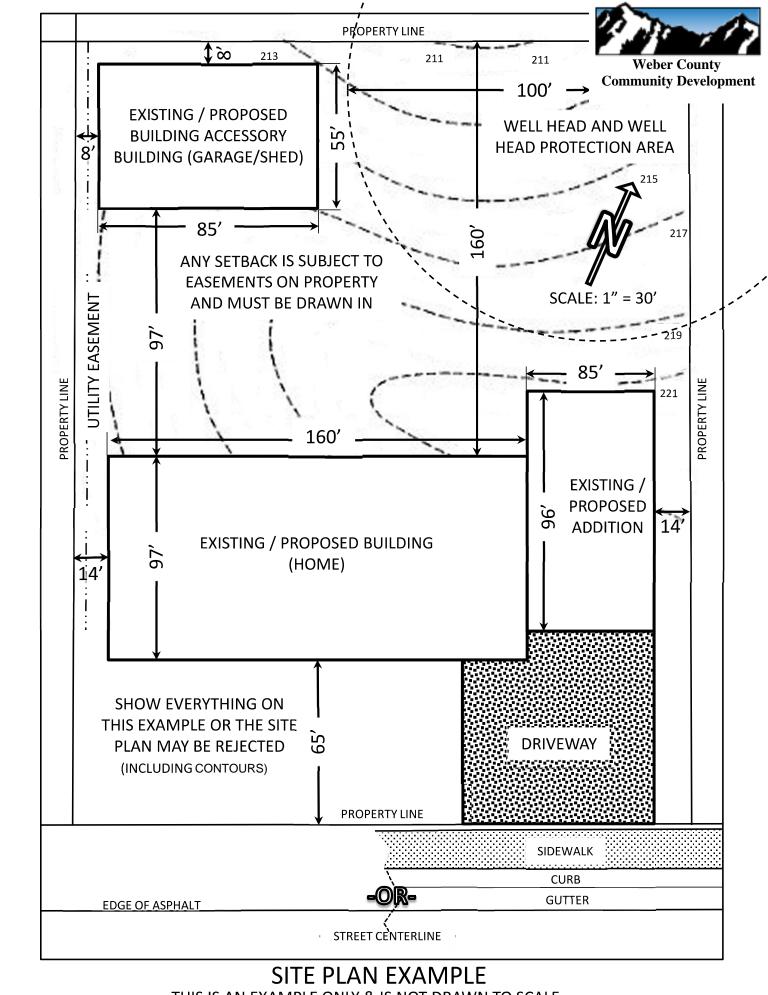
Incomplete applications will not be accepted or held. All required items shall be submitted.

A lot located in an approved/recorded subdivision or proof of a "Lot of Record" determination
Adequate Right of Way Dedication per LUC §108-7-19(2)
Geologic site reconnaissance clearing the lot for development or
*If an engineering geologist deems additional studies are necessary,
A copy of the final geotechnical and geologic reports stamped, signed and dated by an approved Utah
State Engineering Geologist and Geotechnical Engineer, if applicable.
Letter from Structural Engineer stating the plans have been designed to meet the Engineering Geologist and Geotechnical
Engineer's recommendations, if applicable
A copy of final, approved Hillside Review, if applicable
Completed permit application including the signature of the general contractor and or the owner.
 Must include the name, address and state contractor's license numbers for the General Contractor, Electrical, Plumbing
and Mechanical sub-contractors.
Site plans with labels and scale on a PDF
Site plans shall include, at a minimum, but are not limited to the following information for review:
 Lot/Parcel Boundary Lines
North Arrow
 Existing site contours
• The proposed location of new structure footprint with dimensions from proposed structure to the
property lines
All existing structure footprint locations
Street (labeled) and driveway location
Easements/right-of-ways, if applicable
Seasonal or year-round stream corridors
•
Complete plans with scale on a PDF.
All plans shall include, at a minimum, but are not limited to the following information for land use and building
permit reviews:
 Building elevations (renderings) reflecting natural grade with dimensions showing height measured
from highest natural grade and the lowest natural grade to the highest point of the coping of a flat roof,
or to the deck line of a mansard roof, or to the highest point of the ridge of a pitch or hip roof.
 Footing\Foundation plan including all decks/porches/covered patios
 Floor, Deck and Roof framing plans.
• Floor plans (all levels)
Building sections and Engineered Details.
Structural calculations from the Engineer of record
Energy Conservation Compliance Method:
o REScheck
o Other
Exterior Lighting Plan
SWPPP Storm Water Pollution Prevention Plan (State/Local)
All engineered, architectural and site plans are to be combined into one PDF file format to scale to be provided by email to
buildingpermits@co.weber.ut.us
The following items will not be required at the initial submittal stage; however, these items will be
required to be submitted to our office prior to the issuance of the building permit:
Receipt for payment of Fire District Impact Fee and approval of the fire protection system.
Septic Tank Permit from Weber County Environmental Health Department or authorization to connect to an approved
wastewater disposal system
Receipt from an approved culinary water system or an authorization specific to the building lot for connection to the water
system. An approved and tested well permit from Weber County Environmental Health Department is also permitted.
system. An approved and tested wen permit from weber County Environmental Health Department is also permitted.
Submitted by: Bill Lewis (Nelson Brothers Construction Company)
Date Received: Received by:

Incompl		er County I						
Date Submitted /Completed		ons will not be acce	piea or ne	eta. Att requ		Number (Office		
Property Owner Contac	t Informat	ion		Authori	zed Rep	oresentativ	e Contact Informa	ation
Name of Property Owner(s)				Name of Pers	son Authori	zed to Represent	the Property Owner(s)	
Phone	Email (Req	uired)		Phone			Email(Required)	
Property Information								
Property Address		Land Serial Numbe	er			Current Zoni	ng	
Subdivision Name		Lot Number		Acreage		Frontage		
Culinary Water Provider		Secondary Water P	rovider			Waste Water	Provider	
Detailed Description of Proposed V	Use/Structure							
Contractor Information								
Architect or Engineer: Bowen Contact	Collins & As :: Eric Neil	sociates	Phone Number: 801-495-2224					
General Contractor: Nelson B	rothers Con	struction Co.	Contrac	ctor's Addre	_	Vest 1600 So ake City, Uta		
Phone number: 801-487-5401			State L	icense: 225	813-550)1		
Electrical Contractor: ID Elect	ric Company	/	Contrac	ctor's Addre		S 500 W ake City, Ut	ah 84115	
Phone number: 801-268-1471	l		State License: 243078-5501					
Plumbing Contractor: Not App	olicable (N/A)	Contractor's Address: N/A					
Phone number: N/A			State L	icense: N/A	A			
Mechanical Contractor: Carve	er Sheet Met	al	Contrac	ctor's Addre		Jefferson St ake City, Uta		
Phone number: 801-484-4387	,		State L	icense: 225	971-550 ⁻	1		

Submittal Requirements: (Check all that apply)				
Parcel Information: Check one Lot of Record Lot within an approved subdivision meeting the applicable notes on the plat Site plan with required information demonstrated on the site plan as outlined on the Submittal Checklist: Site Access: Check One Across own front property line Flag lot approval date: Alternative Access approval date: Alternative Access approval date: Setback Requirements: Check all that apply Meets setbacks per ordinance: Front: Side: Rear: Side Street: Meets additional setbacks per outlined "Site Restrictions" Large Accessory Building: Located in the front or side of main dwelling with conforming architectural style and material as main building. Located behind dwelling Height Requirements: Check one Meets height requirements per Weber County Land Use Code Height Variance approval date:	Site Restrictions: Check all that apply FEMA Flood Zone Buildable area recorded on the plat Lot identified as a "R" (restricted lot) Areas of slope greater than 25% Geologic Study Area Site Elevation below 4,218 Wetlands as identified by the USGS Western Weber Stream Corridor: Year-Round stream; or Ephemeral stream Ogden Valley Sensitive Lands: Scenic Corridor Ridgeline Historic/Prehistoric and/or Cultural Resources Ogden Valley Stream corridor setbacks: North Fork, South Fork & Middle Fork of the Ogden River: 100' setback from high water mark Year Round: 75' setback from high water mark Ephemeral: 50' setback from high water mark			
engineering geologist deems additional studies are required to be stamped, signed and dated by an appending tengineer. Two complete and identical sets of the plans with scale inclosure of Site Plan including existing site contours and look building elevations (renderings) reflecting nates of Structure Footing\Foundation plan including allook Floor plans (all levels) Section\Details Structural calculations from the Engineer of reconstruction Compliance Method (RECONSWPPP Storm Water Pollution Prevention Plant Receipt for payment of Fire District Impact Feathers are considered, architectural and site plans are	County staff member: Yes No It for development will be required to be submitted or if an encessary, the final geotechnical and geologic reports will be proved Utah State Engineering Geologist and Geotechnical luding the following information: In ot/parcel boundary lines ural grade It decks/porches/covered patios Cord Escheck or other method) In (State/Local) The total compared to be submitted to be combined into one PDF file format to scale intital stage; however these items will be required to be submitted			

Signature of Property Owner or Authorized Representative
I (We),
Signature of Property Owner
Or
Signature of Authorized Representative
This permit becomes null and void if work or construction authorized is not commenced within 180 days, or if construction or work is suspended or abandoned for a period of 180 days at any time after work is commenced. I hereby certify that I have read and examined this application and know the same to true and correct. All provisions of laws and ordinances governing this type of work will be complied with whether specified herein or not the granting of a permit dose not presume to give authority to violate or cancel the provisions of any State or local law regulating construction or the performance of construction and I make this statement under penalty of perjury.



THIS IS AN EXAMPLE ONLY & IS NOT DRAWN TO SCALE SITE PLANS SHOULD BE DRAWN TO SCALE, & ZONING WILL DETERMINE SETBACKS

CONTRACT DOCUMENTS

FOR THE CONSTRUCTION OF

BLOOMINGTON WELL PROJECT

Volume 2 of 2 Drawings



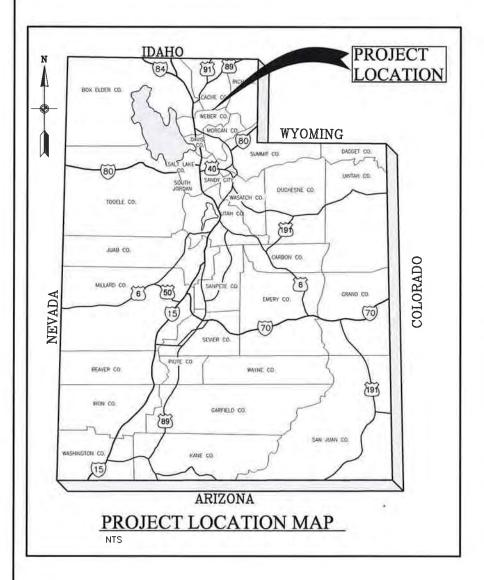


Summit Mountain Holding Group



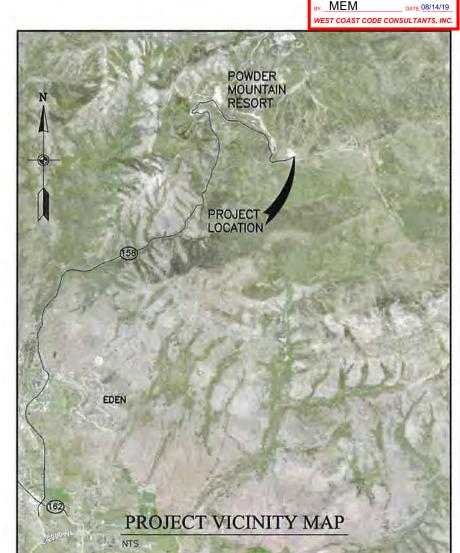
DRAWINGS FOR CONSTRUCTION OF BLOOMINGTON WELL PROJECT

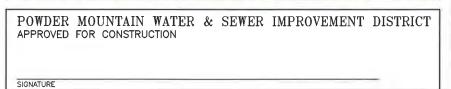
WEBER COUNTY, UTAH



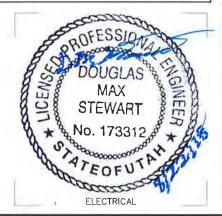


CUT NO	DWC NC	INDEX OF DRAWINGS
SHT NO.	DWG NO.	DESCRIPTION
	0.01	GENERAL
1	G-01	TITLE, PROJECT LOCATION MAP, INDEX OF DRAWINGS & VICINITY MA
2	G-02	SYMBOLS
3	G-03	ABBREVIATIONS OFNERAL MOTES
4	G-04	GENERAL NOTES
		CIVIL
5	C-01	OVERALL SITE PLAN
6	C-02	GRADING PLAN
7	C-03	YARD PIPING
8	GC-01	GENERAL CIVIL DETAILS - 1
9	GC-02	GENERAL CIVIL DETAILS - 2
10	GC-03	GENERAL CIVIL DETAILS - 3
11	GC-04	GENERAL CIVIL DETAILS - 4
		ARCHITECTURAL
12	A-01	PUMP STATION FLOOR PLAN
13	A-02	PUMP STATION EXTERIOR ELEVATIONS
14	A-03	PUMP STATION SECTION & DETAILS
15	A-04	PUMP STATION DETAILS
		STRUCTURAL
16	S-01	WELL PUMP STATION FOUNDATION PLAN
17	S-02	WELL PUMP STATION ROOF FRAMING PLAN
18	S-03	WELL PUMP STATION SECTION
19	S-04	WELL PUMP STATION SECTION
20	S-05	WELL PUMP STATION SECTION
21	S-06	WELL PUMP STATION SECTIONS AND DETAILS 1
22	S-07	WELL PUMP STATION SECTIONS AND DETAILS 2
23	GS-01	GENERAL STRUCTURAL NOTES
24	GS-02	GENERAL STRUCTURAL DETAILS 1
25	GS-03	GENERAL STRUCTURAL DETAILS 2
26	GS-04	GENERAL STRUCTURAL DETAILS 3
		MECHANICAL
27	M-01	WELL PUMP STATION MECHANICAL PLAN
28	M-02	WELL PUMP STATION MECHANICAL SECTION
29	M-03	WELL PUMP STATION MECHANICAL SECTION
30	M-04	MECHANICAL EQUIPMENT SCHEDULE
31	GM-01	PIPE MATERIAL SCHEDULE
32	GM-02	GENERAL MECHANICAL DETAILS - 1
33	GM-03	GENERAL MECHANICAL DETAILS - 2
34	GM-04	GENERAL MECHANICAL DETAILS - 3
		ELECTRICAL
35	E-01	ELECTRICAL SYMBOLS
36	E-02	SCHEDULES AND NOTES
37	E-03	ELECTRICAL SITE PLAN
38		WELL PUMP STATION GROUNDING, POWER, & INSTRUMENTATION PLA
	E-04	
39	E-05	WELL PUMP STATION LIGHTING PLAN
40	E-06	POWER ONE-LINE DIAGRAM
41	E-07	PANEL SCHEDULE LP-A
42	E-08	CONTROL ONE-LINE DIAGRAM
43	E-09	PUMP CONTROL SCHEMATIC
44	GE-01	GENERAL ELECTRICAL DETAILS - 1
45	GE-02	GENERAL ELECTRICAL DETAILS - 2
46	GE-03	GENERAL ELECTRICAL DETAILS - 3











X PLUMBING
X ENERGY

XELECTRICAL XENER





T LOCATION BLOOMINGTON

T DRAWINGS

DESIGN

PESSONE, NEIL

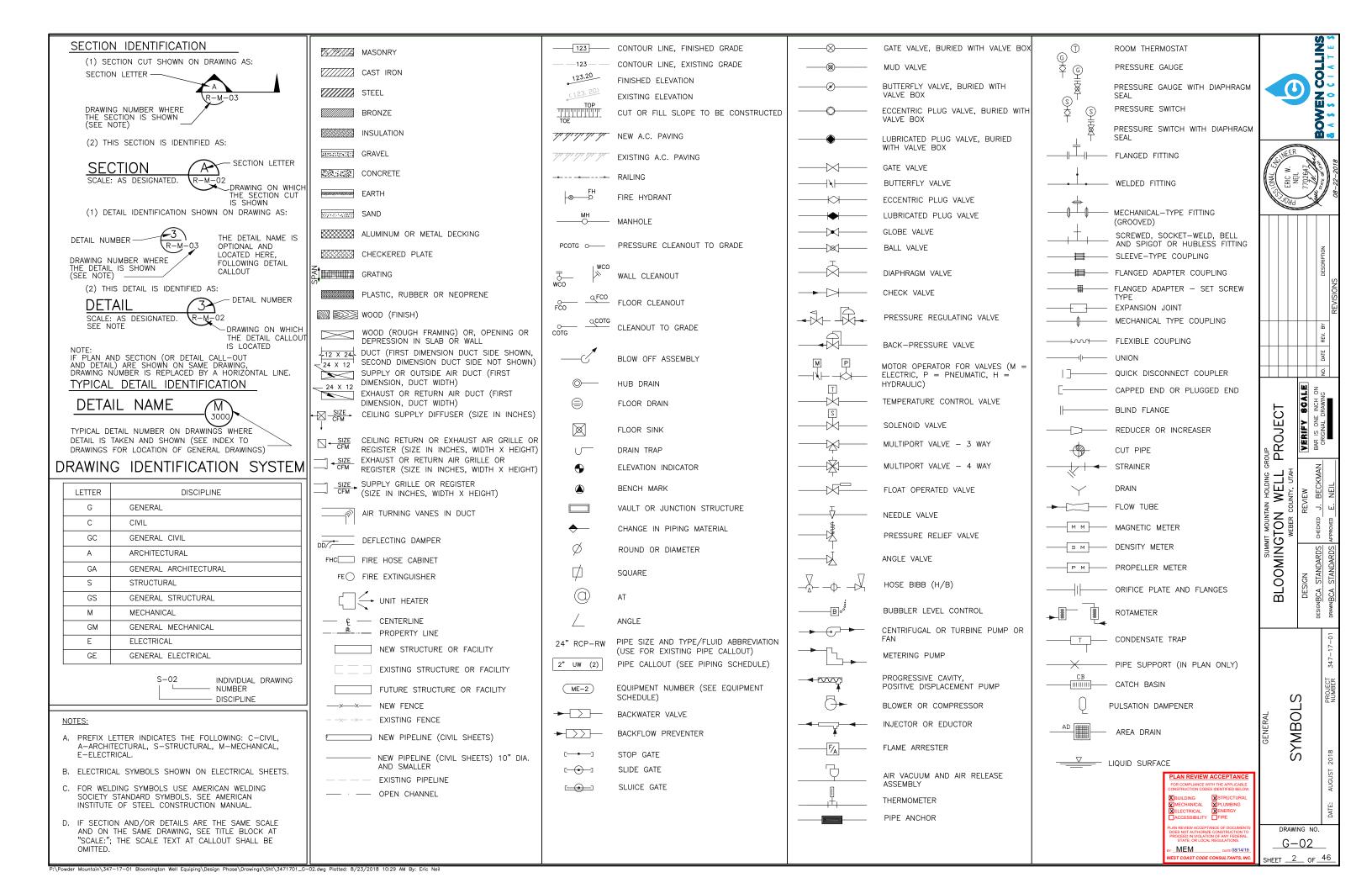
SUMMIT MOUNTA

WEBER OF

PESSONE, NEIL

CHECKED OF

TLE, PROJECT LOC, P, INDEX OF DRAW & VICINITY MAP



@	AT	CONC	CONCRETE, CONCENTRIC	FEXT	FIRE EXTINGUISHER	TLWL	LOW WATER LEVEL	I PW	POTABLE WATER	I		100
AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY TRANSPORTATION OFFICIALS	COND	CONDENSER, CONDENSATE	FF F TO F	FLAT FACE, FAR FACE, FINISH FLOOR	LWR	LOWER	FW	POTABLE WATER	\ \ \	VALVE, VENT, VOLT, VACUUM	
AB	ANCHOR BOLT	CONST	CONNECTION CONSTRUCTION, CONSTRUCT	FG	FACE TO FACE FINISH GRADE, FLOW GLASS					VAR	VARIES, OR VARIABLE	1 =
ABBR ABS	ABBREVIATION ACRYLONITRILE—BUTADIENE—STYRENE	CONT	CONTINUED, CONTINUOUS, CONTINUATION COORDINATE	FH FLR	FIRE HYDRANT FLOOR	M MACH	METER, MALE (PIPE THREAD) MACHINE	RAD RC	RADIUS REINFORCED CONCRETE	VC VCP	VERTICAL CURVE VITRIFIED CLAY PIPE	1 8
AC	ASPHALTIC CONCRETE OR ALTERNATING	COTG COP	CLEAN-OUT TO GRADE	FL	FLOW LINE	MAN	MAGNETIC	RCP RD	REINFORCED CONCRETE PIPE	VERT VOL	VERTICAL	
ACI	CURRENT OR ACTIVATED CARBON AMERICAN CONCRETE INSTITUTE	CPLG	COPPER COUPLING	FLEX FLG	FLEXIBLE FLANGE	MAN MATL	MANUAL MATERIAL	RDCR	ROOF DRAIN OR ROAD REDUCER, REDUCING	VTC	VOLUME VENT THROUGH CEILING	
ACP ADDL	ASPHALTIC CONCRETE PAVEMENT ADDITIONAL	CPVC CS	CHLORINATED POLYVINYL CHLORIDE CAST STEEL OR CAUSTIC SODA	FM FND	FORCE MAIN (SANITARY SEWER)	MAX MB	MAXIMUM MACUNE BOLT	RECIRC RED	RECIRCULATION REDUCING	VTR VSS	VENT THROUGH ROOF VOLATILE SUSPENDED SOLIDS	
ADJ	ADJACENT OR ADJUSTABLE	CTRD	CENTERED	FNSH	FOUND FINISH	MCC	MACHINE BOLT MOTOR CONTROL CENTER	REF	REFERENCE, REFER	*33	VOLATILE 3031 ENDED 30CIDS	
AER AFF	AERATION ABOVE FINISH FLOOR	CTR	CENTER COUNTERSUNK	FO	FIBER OPTIC	MECH MEMB	MECHANICAL, MECHANISM MEMBRANE	REG REINF	REGULATING, REGISTER REINFORCE, REINFORCED	W	WEST, WASTE, WIDE FLANGE (BEAM)	
AGGR	AGGREGATE	CU FT	CUBIC FOOT	G.	GAS	MET	METAL	REQD	REQUIRED	W/ W/O	WITH WITHOUT	SCHEER
AH AIR CONT	AIR HANDLER AIR CONDITIONING	CU IN	CUBIC INCH CUBIC YARD	GA GAL	GAGE, GAUGE GALLON	MFR MG	MANUFACTURER MILLION GALLONS	REV RF	REVISION ROOF, RAISED FACE	wc	WATER COLUMN OR WATER CLOSET	
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	CULV	CULVERT CHECK VALVE	GALV GEN	GALVANIZED GENERATOR	MGD MH	MILLION GALLONS PER DAY MANHOLE, MONORAIL HOIST	RND R.O.	ROUND ROUGH OPENING	WCO WD	WALL CLEANOUT WOOD	
AL	ALUMINUM, ALUM	CW	COLD WATER	GFI	GROUND FAULT INTERRUPTER	MI	MALLEABLE IRON	RPM	REVOLUTIONS PER MINUTE	WH WS	WATER HEATER	The state of the s
ALTN ANOD	ALTERNATIVE, ALTERNATE ANODIZED	CWO	CHAIN WHEEL OPERATOR CYLINDER	GI GIS	GALVANIZED IRON GEOGRAPHIC INFORMATION SYSTEM	MID MIL	MIDDLE 1/1,000 INCH	RP RS	RADIUS POINT RAW SEWAGE	WSP	WATER STOP, WATER SURFACE WELDED STEEL PIPE	
ANSI APVD	AMERICAN NATIONAL STANDARDS INSTITUTE APPROVED			GL	GLASS	MIN	MINIMUM OR MINUTE	RST RT	REINFORCING STEEL, RESET	WSTP WT	WATER STOP WEIGHT	
APVD APPROX	APPROVED APPROXIMATE	DBA	PENNY DEFORMED ANCHOR	GLAZ GLV	GLAZING GLOBE VALVE	MISC MJ	MISCELLANEOUS MECHANICAL JOINT	RV	REGULATING TANK, RADIOGRAPHIC, RIGHT ROOF VENT	WWM	WELDED WIRE MESH	
ARCH ARV	ARCHITECTURAL AIR RELEASE VALVE	DBL DC	DOUBLE DIRECT CURRENT	GND GPD	GROUND GALLONS PER DAY	MTL MTG	METAL OR MATERIAL	R/W RW	RIGHT OF WAY RAW WATER			
ASME	AMERICAN SOCIETY OF MECHANICAL	DET	DETAIL	GPH	GALLONS PER HOUR	MTR	MOUNTING MOTOR		· · · · · · · · · · · · · · · · · · ·	XMTR	TRANSMITTER EXTRA STRONG	
ASTM	ENGINEERS AMERICAN SOCIETY FOR TESTING AND	DEG DEMO	DEGREE DEMOLITION, DEMOLISH	GPM GR	GALLONS PER MINUTE GRADE	MPH MWS	MILES PER HOUR MAXIMUM WATER SURFACE	SA	SOUTH, SECOND SAMPLE, SAMPLE LINE	XS	Z.m. Smorto	
SSY	MATERIAL ASSEMBLY	DI DIA	DUCTILE IRON, DROP INLET DIAMETER	GR BRK	GRADE BREAK, GRADE CHANGE GRATING			SR SCFM	SUPPLY AIR REGISTER STANDARD CUBIC FEET PER MINUTE		YARD	
NUTO	AUTOMATIC	DIAG	DIAGONAL	GRTG GV	GATE VALVE	N NAVD	NORTH NORTH AMERICAN VERTICAL DATUM	SCH	SCHEDULE	YD YR	YEAR	
VV VV	AUXILIARY AIR VALVE	DIAPH DIFF	DIAPHRAGM DIFFUSER	GSP GYP	GALVANIZED STEEL PIPE GYPSUM BOARD	NBS NC	NATIONAL BUREAU OF STANDARDS NORMALLY CLOSED	SD SECT	STORM DRAIN SECTION			
AVAR	AIR VACUUM AND AIR RELEASE VALVE	DIM	DIMENSION			NE	NORTHEAST	SHT	SHEET SIMILAR			
WS WWA	AMERICAN WELDING SOCIETY AMERICAN WATER WORKS ASSOCIATION	DIP DISCH	DUCTILE IRON PIPE DISCHARGE	H HAS	HEIGHT HEADED ANCHOR STUD	NEC NEMA	NATIONAL ELECTRIC CODE NATIONAL ELECTRICAL MANUFACTURES	SLP	SLOPE			
IC .	BEGIN CURVE, BOLT CIRCLE	DIR DIST	DIRECTION DISTANCE	НВ	HOSE BIBB	NE	ASSOCIATION	SP SPEC	SPACING, STATIC PRESSURE SPECIFIED, SPECIFICATION			
F	BLIND FLANGE, BUTTERFLY VALVE	DIV	DIVISION	HD HDPE	HUB DRAIN HIGH DENSITY POLYETHYLENE	NFPA	NEAR FACE NATIONAL FIRE PROTECTION ASSOCIATION	SPECS	SPECIFICATIONS			
BFP BFV	BACK FLOW PREVENTER BUTTERFLY VALVE	D-LOAD	DESCRIPTION OF DAMPER DAMPER	HDR HDW	HEADER HARDWARE	NIC NO	NOT IN CONTRACT NUMBER OR NORMALLY OPEN	SPG SPKR	SPACING SPEAKER			N E
HD	BULKHEAD	DN	DOWN, DECANT	HEX	HEXAGONAL	NOM	NOMINAL					
HP LDG	BRAKE HORSEPOWER BUILDING	DOT DP	DEPARTMENT OF TRANSPORTATION DAMP PROOFING	HGR HM	HANGER HOLLOW METAL	NPT NS	NATIONAL PIPE THREAD NEAR SIDE	SPLY	SUPPLY			
LK LKG	BLACK OR BLOCK BLOCKING	DR DS	DOOR, DRAIN DRENCH SHOWER & EYE WASH,	HORIZ	HORIZONTAL	NTS	NOT TO SCALE	SPRT	SUPPORT			
BLT	BOLT		DOWNSPOUT	HP	HORSEPOWER, HIGH PRESSURE, HEAT PUMP	NW	NORTHWEST	SQ FT	SQUARE SQUARE FOOT			RO,
BM BO	BEAM, BENCH MARK BLOW-OFF ASSEMBLY, BLOW-OFF	DWG DWL	DRAWING DOWEL	H/P, HPT HR	HIGH POINT HEATING RETURN, HOUR, HOSE RACK	ос	ON CENTER, OVER-CROSSING	SR SS	SUPPLY REGISTER SANITARY SEWER, SERVICE SINK			
30T	ВОТТОМ			HS	HIGH STRENGTH	OD	OUTSIDE DIAMETER, OVERALL DIMENSION	SST	STAINLESS STEEL			
BPS BPV	BOOSTER PUMPING STATION BACK PRESSURE VALVE	E(UG)	ELECTRICAL (UNDERGROUND)	HSS HTG	HOLLOW STRUCTURAL SECTION HEATING	OF OH	OUTSIDE FACE OVERHEAD	STA STD	STATION STANDARD			
BRK 8 & S	BRICK BELL & SPIGOT	E(OH)	ELECTRICAL (OVERHEAD POWER) EAST	HTR	HEATER HOSE VALVE	OPER	OPERATOR, OPERATING	STIFF	STIFFENER			L S A FINE
BTWN	BETWEEN	EA	EACH	HV HVAC	HEATING, VENTILATING AND AIR	OPNG OPP	OPENING OPPOSITE	STL STRL	STEEL STRUCTURAL			Z RE COL
BTU BUR	BRITISH THERMAL UNIT BUILT—UP ROOFING	EB EC	EXPANSION BOLT END CURVE	HWL HWO	CONDITIONING HIGH WATER LEVEL	ORIG	ORIGINAL DOUT TO OUT	SYM SYMM	SYMBOL SYMMETRICAL			
BVC BW	BEGIN VERTICAL CURVE BACK WASH, FILTER BACKWASH	ECC	ECCENTRIC	HYD	HANDWHEEL OPERATED	OVHD	OVERHEAD	SYS	SYSTEM			
- VV	•	EF EFF	EACH FACE, EXHAUST FAN EFFLUENT		HYDRANT, HYDRAULIC	OZ	OUNCE					NIN Sum
C CAB	CENTIGRADE OR CELSIUS CABINET	EG EL	EXISTING GRADE ELEVATION, ELBOW	ICFM ID	INLET CUBIC FEET PER MINUTE INSIDE DIAMETER	PV PC	PAVEMENT PORTLAND CEMENT, POINT OF CURVE	_	THIS WAITED TOP TOWER			
CAP CARV	CAPACITY COMBINATION AIR RELEASE VALVE	ELEV	ELEVATION	IF	INSIDE FACE		OR PRIMARY CLARIFIER	T&B	THICKNESS, TOP, TOILET TOP AND BOTTOM			
В	CATCH BASIN	ELEC EMB	ELECTRICAL, ELECTRONIC EMBEDMENT	IN IN LB	INCH INCH-POUND	PCC PCF	PORTLAND CEMENT CONCRETE POUNDS PER CUBIC FOOT	T&G TAN	TONGUE AND GROOVE TANGENT			BL(
C CP	CENTER TO CENTER CONCRETE CYLINDER PIPE	EMER ENCL	EMERGENCY ENCLOSURE	INFL	INFLUENT	PG	PRESSURE GAUGE	ТВМ	TEMPORARY BENCH MARK			" "
D	CEILING DIFFUSER CHEMICAL DRAIN	ENG	ENGINE	INSUL IE	INSULATING INVERT ELEVATION	PE	PLAIN END, POLYELECTROLYTE POLYMER, POLYETHYLENE	TBC TC	TOP OF CATCH BASIN TOP OF CURB, TOP OF CONCRETE			
ER	AND VENT CERAMIC	ENGR EP	ENGINEER EDGE OF PAVEMENT	INVT IPS	INVERT IRON PIPE SIZE	pH PI	HYDROGEN ION CONCENTRATION PLANT INFLUENT, POINT OF INTERSECTION	TDH TECH	TOTAL DYNAMIC HEAD TECHNICAL			
:FH :FM	CUBIC FEET PER HOUR CUBIC FEET PER MINUTE	EQ	EQUAL	IRR	IRRIGATION	PJF	PREMOLDED JOINT FILLER	TEL	TELEPHONE			
FS	CUBIC FEET PER SECOND	EQL SP EQUIP	EQUALLY SPACED EQUIPMENT	JT	JOINT	PLYWD	PLATE, PROPERTY LINE, PLACE PLYWOOD	TEMP THK	TEMPERATURE, TEMPORARY THICK			
G HBD	CHLORINE GAS CHALKBOARD	ETC EVAP	ETCETERA EVAPORATOR			PM	PUMP, PROPELLER METER POINT OF BEGINNING	THR'D	THREADED			S
HEM	CHEMICAL	EVC	END VERTICAL CURVE	к	KELVIN, KILO OR THOUSAND POUNDS	PI PT	POINT OF TANGENT	TK T.O.	TANK TOP OF	_		
HG HKD PL	CHANGE CHECKERED PLATE	EW EXH	EACH WAY, EYE WASH EXHAUST	KG KV	KILOGRAM KILOVOLT	PJF PI	PREMOLDED JOINT FILLER PLATE, PROPERTY LINE, OR PLACE	TOG TP	TOP OF GRADE TELEPHONE POLE, TURNING POINT		PLAN REVIEW ACCEPTANCE	<u> </u>
I IP	CAST IRON CAST IRON PIPE	EXP ANR	R EXPANSION BOLT, ANCHOR	KW	KILOWATT	PP	POTASSIUM PERMANGANATE	TYP	TYPICAL		FOR COMPLIANCE WITH THE APPLICABLE CONSTRUCTION CODES IDENTIFIED BELOW.	AT
ISP	CAST IRON SOIL PIPE	EXP JT EXIST	EXPANSION JOINT EXISTING	KWH	KILOWATT HOUR	PPD PPH	POUNDS PER DAY POUNDS PER HOUR				_	
JP JP	CONSTRUCTION JOINT COMPLETE JOINT PENETRATION	EXT	EXTERIOR, EXTENSION, EXTERNAL	L LAB	LEFT OR LITER LABORATORY	PPM PR	PARTS PER MILLION PAIR	UBC	UNIFORM BUILDING CODE		■ STRUCTURAL	<u> </u>
L	CHLORINATOR, CHAIN LINK, CLEARANCE,			LAV	LAVATORY	PRC	POINT OF REVERSE CURVE	UD UG	UNDERDRAIN UNDERGROUND		MECHANICAL PLUMBING KELECTRICAL ENERGY	l BR
LR	CENTERLINE OR CHLORINE CLEAR			LB LC	POUND LENGTH OF CURVE	PREFAB PRI	PREFABRICATED PRIMARY	UH UL	UNIT HEATER UNDERWRITERS LABORATORIES		□ ACCESSIBILITY □ FIRE	
LST M	CEMENT LINED STEEL PIPE CENTIMETER	F.	FAHRENHEIT, FACE	LF	LINEAR FEET	PRV	PRESSURE REGULATING/REDUCING VALVE	UNO	UNLESS OTHERWISE NOTED		_	⋖
ML & C	CEMENT MORTAR LINED AND COATED	FAB FB	FABRICATION, FABRICATE, OR FABRICATED FLAT BAR	LG LH	LENGTH OR LONG LEFT HAND	PS PSF	PRESSURE SWITCH, PUMP STATION POUNDS PER SQUARE FOOT	USBR	U.S. BUREAU OF RECLAMATION		PLAN REVIEW ACCEPTANCE OF DOCUMENTS DOES NOT AUTHORIZE CONSTRUCTION TO	
MP MU	CORRUGATED METAL PIPE CONCRETE MASONRY UNIT	FC	FLEXIBLE COUPLING	LL	LIVE LOAD	PSI	POUNDS PER SQUARE INCH				PROCEED IN VIOLATION OF ANY FEDERAL, STATE, OR LOCAL REGULATIONS.	
00	CLEANOUT	FCA FCO	FLANGE COUPLING ADAPTER FLOOR CLEANOUT	LLV LOL	LONG LEG VERTICAL LENGTH OF LINE	PSIG PT	POUNDS PER SQUARE INCH GAUGE POINT OF TANGENT, PRESSURE TREATED					
COL	COLUMN COMMUNICATION	FD FDN	FLOOR DRAIN FOUNDATION	LPT LR	LOW POINT LONG RADIUS	PTDF PVC	PRESSURE TREATED DOUGLAS FIR POLYVINYL CHLORIDE			В	BY: MEM DATE: 08/14/19	DRAWING NO
COMB	COMBINED	FDN	FEEDER	LT	LIGHT, LEFT	PVC	POLYVINYL CHLORIDE POINT OF VERTICAL INTERSECTION			V	WEST COAST CODE CONSULTANTS, INC.	<u>G-03</u>
				LVL	LEVEL							SHEET3 OF_

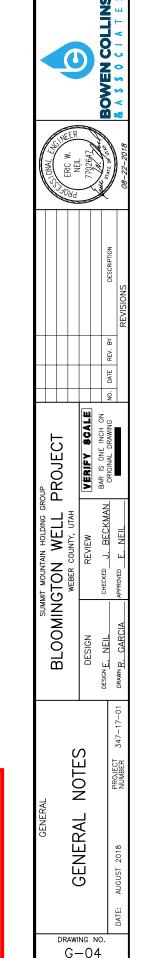
P:\Powder Mountain\347-17-01 Bloomington Well Equiping\Design Phase\Drawings\Sht\3471701_G-03.dwg Plotted: 8/23/2018 10:29 AM By: Eric Neil

GENERAL NOTES

- SYMBOLS FOR STRUCTURES, PIPE AND ETC. USED FOR IDENTIFICATION ARE SHOWN IN LEGENDS AND SHALL BE FOLLOWED THROUGHOUT THE PLANS WHENEVER APPLICABLE. NOT ALL OF THE VARIOUS COMPONENTS SHOWN IN THESE LEGENDS ARE NECESSARILY USED IN THE PROJECT.
- 2. SCALE OF THE DRAWINGS OR DETAILS ARE SHOWN IN TITLE BLOCK OR DIRECTLY UNDER THE PLAN OR DETAIL. THE SIZE OF THE ORIGINAL PLOTTED DRAWINGS IS 22"X34". CARE SHOULD BE TAKEN TO VERIFY THE SCALE BAR IN THE TITLE BLOCK AREA TO DETERMINE THE SCALE OF REDUCED REPRODUCTIONS.
- 3. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PERFORM CONSTRUCTION ACTIVITIES PER THE CONTRACT DOCUMENTS. ANY ADDITIONS, DELETIONS, OR MODIFICATIONS SHALL FIRST MEET WITH THE WRITTEN APPROVAL OF THE ENGINEER AND THE OWNER.
- CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMIT(S) AND COMPLY WITH ALL REQUIREMENTS OF GOVERNING AGENCIES.
- 5. THE CONTRACTOR SHALL KEEP ALL CONSTRUCTION ACTIVITIES WITHIN THE ESTABLISHED RIGHTS-OF-WAY. THIS SHALL INCLUDE BUT NOT BE LIMITED TO, VEHICLES AND EQUIPMENT, LIMITS OF TRENCH EXCAVATION, AND EXCAVATED MATERIAL AND BACKFILL STORAGE. IF THE CONTRACTOR REQUIRES ADDITIONAL CONSTRUCTION EASEMENTS, IT SHALL BE SOLELY THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN SUCH EASEMENTS.
- THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING IMPROVEMENTS FROM DAMAGE WHICH ARE TO REMAIN IN PLACE. ALL SUCH IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTORS OPERATIONS SHALL BE REPAIRED OR RECONSTRUCTED TO ORIGINAL OR BETTER CONDITION TO THE SATISFACTION OF THE OWNER AT THE EXPENSE OF THE CONTRACTOR.
- 7. CONTRACTOR IS SOLELY RESPONSIBLE FOR CONFORMANCE WITH LOCAL AND FEDERAL CODES GOVERNING SHORING AND BRACING OF EXCAVATIONS AND TRENCHES. CONTRACTOR IS RESPONSIBLE FOR THE SAFETY OF THE PUBLIC AND PROTECTION OF PERSONNEL
- 8. CONTRACTOR SHALL NOT DESTROY, REMOVE, OR DISTURB ANY EXISTING SURVEY MONUMENTS WITHOUT AUTHORIZATION OF CONTROLLING AGENCY. ALL SURVEY MONUMENTS OR POINTS DISTURBED BY THE CONTRACTOR SHALL BE ACCURATELY RESET BY A REGISTERED LAND SURVEYOR AFTER ALL RESTORATION AND RESURFACING HAS BEEN COMPLETED
- TRENCH SUPPORTS AND DEWATERING (NOTE 10) SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. MAXIMUM OPEN TRENCH DURING WORKING HOURS SHALL BE 300 FEET.
- 10. DEWATERING: GROUND WATER AND SURFACE WATER CONTROL SHALL BE PERFORMED AND RESPONSIBLY HANDLED BY THE CONTRACTOR ACCORDING TO, AND IN COMPLIANCE WITH, ALL LOCAL GOVERNING AUTHORITIES. HEAVY GROUND WATER AND/OR SURFACE WATER PUMPING MAY BE REQUIRED. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE POTENTIAL PUMPING NEEDS. THE CONTRACTOR SHALL NOT RELY ON OWNER SUPPLIED PROCTOR, GROUND WATER AND/OR SURFACE WATER DATA. CONTRACTOR SHALL OBTAIN DEWATERING PERMIT AS NECESSARY. DEWATERING ACTIVITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- 11. AERIAL PHOTOS IN DRAWINGS: THE AERIAL PHOTOS PROVIDED AS BACKGROUND IN THESE DRAWINGS ARE PROVIDED TO HELP CLARIFY THE WORK SITE. HOWEVER, PRESENT DAY CONDITIONS MAY VARY FROM THOSE SHOWN. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO BIDDING. BID SHALL INCLUDE ALL WORK REQUIRED TO COMPLETE THE PROJECT.
- 12. CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY SETTLEMENT OF EXCAVATIONS, AND ANY DAMAGE OF UTILITIES RESULTING FROM SETTLEMENT.
- 13. CONTRACTOR SHALL PREVENT ANY GROUND WATER OR DEBRIS FROM ENTERING NEW PIPES DURING CONSTRUCTION. THE ENDS OF THE PIPES SHALL BE SEALED AT THE END OF EACH WORKDAY.
- 14. PROFILE DRAWINGS ARE HORIZONTAL PROJECTIONS OF THE PIPELINE CENTERLINE, UNLESS OTHERWISE NOTED
- 15. LAY PIPE TO DEPTH AND ALONG HORIZONTAL ALIGNMENT AS DEFINED IN THESE DRAWINGS. CONTRACTOR SHALL NOT DEVIATE FROM PROPOSED ALIGNMENT OR GRADE WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER. AVOID HIGH AND LOW POINTS EXCEPT WHERE DESIGNED.
- 16. ALL BURIED REBAR, FITTINGS, COUPLINGS, VALVES, AND MECHANICAL JOINT NUTS AND BOLTS ARE TO BE COATED WITH NON OXIDE GREASE CHEVRON FM 1 OR APPROVED EQUAL, COVERED WITH 8 MIL POLYETHYLENE SHEETING, AND TAPE WRAPPED PER AWWA C105. SEE SPECIFICATION 05500 FOR ADDITIONAL BOLT AND NUT COATING REQUIREMENTS.

- 17. UNLESS NOTED OTHERWISE, ALL WATER MAIN SHALL BE 4-INCH AND 6-INCH DUCTILE IRON CLASS 250. SIZE OF FITTINGS SHOWN ON THE PLANS SHALL CORRESPOND TO ADJACENT STRAIGHT RUN OF PIPE, AND SHALL BE DUCTILE IRON FITTINGS.
- 18. ALL FITTINGS REQUIRED FOR THE COMPLETION OF THE WORK ARE NOT SHOWN IN THE DRAWINGS. MAXIMUM PIPE JOINT DEFLECTION SHALL BE 1-DEGREE. ADDITIONAL FITTINGS REQUIRED TO MAINTAIN THE ALIGNMENT SHOWN IN THE PLANS SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- 19. MINIMUM DEPTH OF NEW PIPE: 6 FEET TO TOP OF PIPE. UNLESS
- 20. CONTRACTOR SHALL PERFORM CHLORINATION TEST, PRESSURE TEST, AND BACTERIA TEST. ALL WATERLINES INSTALLED SHALL BE DISINFECTED IN ACCORDANCE WITH THE "AMERICAN WATER WORKS ASSOCIATION STANDARD FOR DISINFECTING WATER MAINS" (AWWA C651). ALL CHLORINATED WATER SHALL BE DISPOSED OF IN ACCORDANCE WITH THE UTAH DEPT OF ENVIRONMENTAL QUALITY RULES AND REQUIREMENTS FOR SURFACE DISCHARGE AND COORDINATED WITH WEBER COUNTY.
- 21. ALL CONSTRUCTION ACTIVITIES SHALL BE PERFORMED IN A WORKMANLIKE AND SAFE MANNER AND IN ACCORDANCE WITH ALL STATE AND LOCAL CODES AND JOB-SITE RELATED CONSTRUCTION CONDITIONS AND REQUIREMENTS. OBTAIN PERMITS, INSPECTIONS AND APPROVALS AS REQUIRED BY JURISDICTIONAL AGENCIES AND PAY ALL ASSOCIATED FEES. CONTRACTOR AND INSTALLERS SHALL BE LICENSED AS REQUIRED BY STATE AND LOCAL JURISDICTIONS, AND BONDED AS DETERMINED BY PROJECT REQUIREMENTS
- 22. PRESSURE TEST ALL PIPELINES TO 150 PSI MINIMUM FOR TWO HOURS WITH ZERO LEAKAGE. IN THE CASE OF PIPELINES THAT FAIL TO PASS THE LEAKAGE TEST, THE CONTRACTOR SHALL DETERMINE THE CAUSE OF THE EXCESSIVE LEAKAGE, SHALL TAKE CORRECTIVE MEASURES NECESSARY TO REPAIR THE LEAKS, AND SHALL AGAIN TEST THE PIPELINES, ALL AT NO COST TO THE
- 23. WORKING PRESSURE FOR THE SYSTEM IS 70 PSI WITH TEST PRESSURE OF 150 PSI. ALL FLANGES, VALVES, FITTINGS, THRUST BLOCKS, ETC. SHALL BE RATED APPROPRIATELY.
- 24. ALL PIPE, FITTINGS, AND VALVES SHALL BE NSF 61 COMPLIANT FOR CULINARY WATER USE.
- 25 CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING CONTROL OF DRAINAGE AND EROSION DURING CONSTRUCTION AT CONSTRUCTION SITE, STAGING, AND SPOILS AREA. CONTRACTOR SHALL SUBMIT STORM RUNOFF CONTROL PLAN FOR APPROVAL BY ENGINEER AND OBTAIN A UPDES PERMIT FROM THE UTAH DEPARTMENT OF ENVIRONMENTAL QUALITY.
- 26. INSTALL ALL MATERIALS ACCORDING TO MANUFACTURER RECOMMENDATIONS AND STATE AND LOCAL REQUIREMENTS. USE ONLY NEW AND UNUSED MATERIALS. ALL MATERIALS SHALL BE PROVIDED BY MANUFACTURERS REGULARLY ENGAGED IN PRODUCING SAID ITEMS, AND WHICH SHALL BE FIRST QUALITY, HEAVY DUTY, COMMERCIAL/INDUSTRIAL GRADE, SUITABLE FOR THE INTENDED USE.
- 27. EXCAVATION LIMITS SHOWN IN THE DRAWINGS ARE GRAPHICAL REPRESENTATIONS ONLY, AND DO NOT REPRESENT ACTUAL EXCAVATION LIMITS OR SAFE TRENCH CONDITIONS REQUIRED TO COMPLETE THE WORK.
- 28. ALL DUCTILE IRON FITTINGS SHALL BE MADE IN THE U.S.A. AND HAVE MEGALUGS ON ALL MECHANICAL JOINTS.
- 29. ALL MATERIALS WHICH MAY CONTACT DRINKING WATER, INCLUDING PIPES, GASKETS, LUBRICANTS, AND O-RINGS, SHALL BE ANSI-CERTIFIED AS MEETING THE REQUIREMENTS OF NSF STANDARD 61. TO PERMIT FIELD VERIFICATION, COMPONENTS SHALL BE STAMPED WITH THE APPROPRIATE NSF LOGO.
- 30. TRACER WIRE: METALLIC TRACER WIRE AND WARNING TAPE SHALL BE PROVIDE ON ALL UTILITIES.
- 31. UTILITY CROSSING: CONTRACTOR SHALL BACKFILL TRENCH AREAS WHERE NEW WATERLINES CROSS UNDER EXISTING BURIED UTILITIES WITH FLOWABLE FILL (CLSM) IN ACCORDANCE WITH SPECIFICATIONS SECTION 02200 IF STANDARD MECHANICAL COMPACTION EQUIPMENT CAN NOT ADEQUATELY COMPACT BACKFILL.
- 32. FINAL RIM ELEVATIONS: CONTRACTOR SHALL ADJUST GRADE OF NEW MANHOLE RIMS, VALVE BOXES, AND INLET GRATES TO MATCH FINAL GRADES
- 33. CONSTRUCTION SURVEYING: CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION SURVEYING AND FOR LAYING OUT WORK.
- 34. AS-BUILT SURVEY: CONTRACTOR SHALL PERFORM SURVEY OF ALL IMPROVEMENTS AS INSTALLED, INCLUDING LOCATIONS AND DEPTHS

- OF BURIED FITTINGS AND VALVES, AND LOCATIONS OF ALL STRUCTURES, SURFACE IMPROVEMENTS, AND FACILITIES ASSOCIATED WITH THIS PROJECT. THIS SURVEY INFORMATION SHALL BE INCORPORATED INTO THE RECORD DRAWINGS AND PROVIDED IN AUTOCAD FORMAT TO THE OWNER. COORDINATES SHALL BE SURVEY GRADE (± 1 CM) IN THE PROJECT DATUM.
- 35. EROSION AND SEDIMENTATION CONTROL AND PERMIT: CONTRACTOR SHALL CONSTRUCT BERMS AND/OR DRAINAGE DITCHES AS NEEDED TO KEEP STORM RUNOFF FROM ENTERING CONSTRUCTION EXCAVATIONS OR INTERFERING WITH CONSTRUCTION EFFORTS. CONTRACTOR SHALL INSTALL EXCELSIOR EROSION CONTROL MATTING ON ALL DISTURBED AREAS WITH SLOPES OF 3H:1V OR STEEPER. EROSION CONTROL MATS SHALL BE CURLEX TYPE I AS MANUFACTURED BY AMERICAN EXCELSIOR COMPANY, OR EQUAL. INSTALL AND ANCHOR PER MANUFACTURER'S RECOMMENDATIONS.
- 36. VEGETATION: CONTRACTOR SHALL REMOVE AND DISPOSE OF TREES AND VEGETATION AS REQUIRED TO INSTALL IMPROVEMENTS.
- 37. UNLESS NOTED OTHERWISE, FITTINGS WITH A CONNECTION TO ANOTHER FITTING OR VALVE SHALL HAVE FLANGED CONNECTIONS. ALL FITTINGS WITH A CONNECTION TO A STRAIGHT RUN OF PIPE SHALL HAVE MECHANICAL JOINTS. ALL FITTINGS TO BE PRESSURE CLASS 250 DUCTILE IRON PER SPECIFICATION SECTIONS 02509, 15000. ALL COUPLINGS SHALL BE SLEEVE TYPE AND SHALL BE
- 38. ALL VALVES SHALL BE GATE VALVES LESS THAN 12-INCHES PER SPECIFICATION SECTION 40 05 61, WITH SLIP TYPE VALVE BOX AND COVER, SEE
- 39. ALL FITTINGS AND APPURTENANCES SHALL BE EQUIPPED WITH THRUST BLOCKS PER THE SPECIFICATIONS AND STANDARD DRAWINGS. CONTRACTOR SHALL PROVIDE TEMPORARY THRUST RESTRAINT AS NECESSARY DURING CONSTRUCTION AND GIVING SPECIAL ATTENTION TO THE TEES, VALVES, AND THRUST BLOCKS ON EXISTING WATERLINES.
- 40. FOR GEOTECHNICAL INFORMATION, SEE REPORT PREPARED BY IGES ENTITLED "DESIGN GEOTECHNICAL INVESTIGATION", POWDER MOUNTAIN RESORT, WEBER COUNTY, UTAH, NOVEMBER 9, 2012, PREPARED FOR SUMMIT, LLC.
- 41. EXISTING UTILITIES SHOWN ON PLANS ARE BASED ON A RECORD SEARCH BY LOCAL CONTROLLING AGENCIES ARE APPROXIMATELY LOCATED. EXISTING UTILITIES ARE SHOWN FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF, AND PRESERVING, ALL UTILITIES INCLUDING THOSE NOT SHOWN OR INCORRECTLY SHOWN ON THE PLANS. CONTRACTOR SHALL NOTIFY UTILITY COMPANIES TWO (2) WEEKS IN ADVANCE OF UTILITY CONFLICTS REQUIRING RELOCATION OF MAIN LINES, AND ONE (1) WEEK IN ADVANCE OF CONFLICTS REQUIRING RELOCATION OF SERVICE LATERALS. NOTIFY BLUE STAKES AT LEAST 48 HOURS PRIOR TO EXCAVATION IN THE VICINITY OF UNDERGROUND UTILITIES.
- 42. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESEEDED AND LANDSCAPED AS SPECIFIED. SEE C FOR SEED MIX. 2004



HEET 4 OF 46

PLAN REVIEW ACCEPTANCE

FOR COMPLIANCE WITH THE APPLICABLE CONSTRUCTION CODES IDENTIFIED BELOW

BUILDING MECHANICAL XELECTRICAL

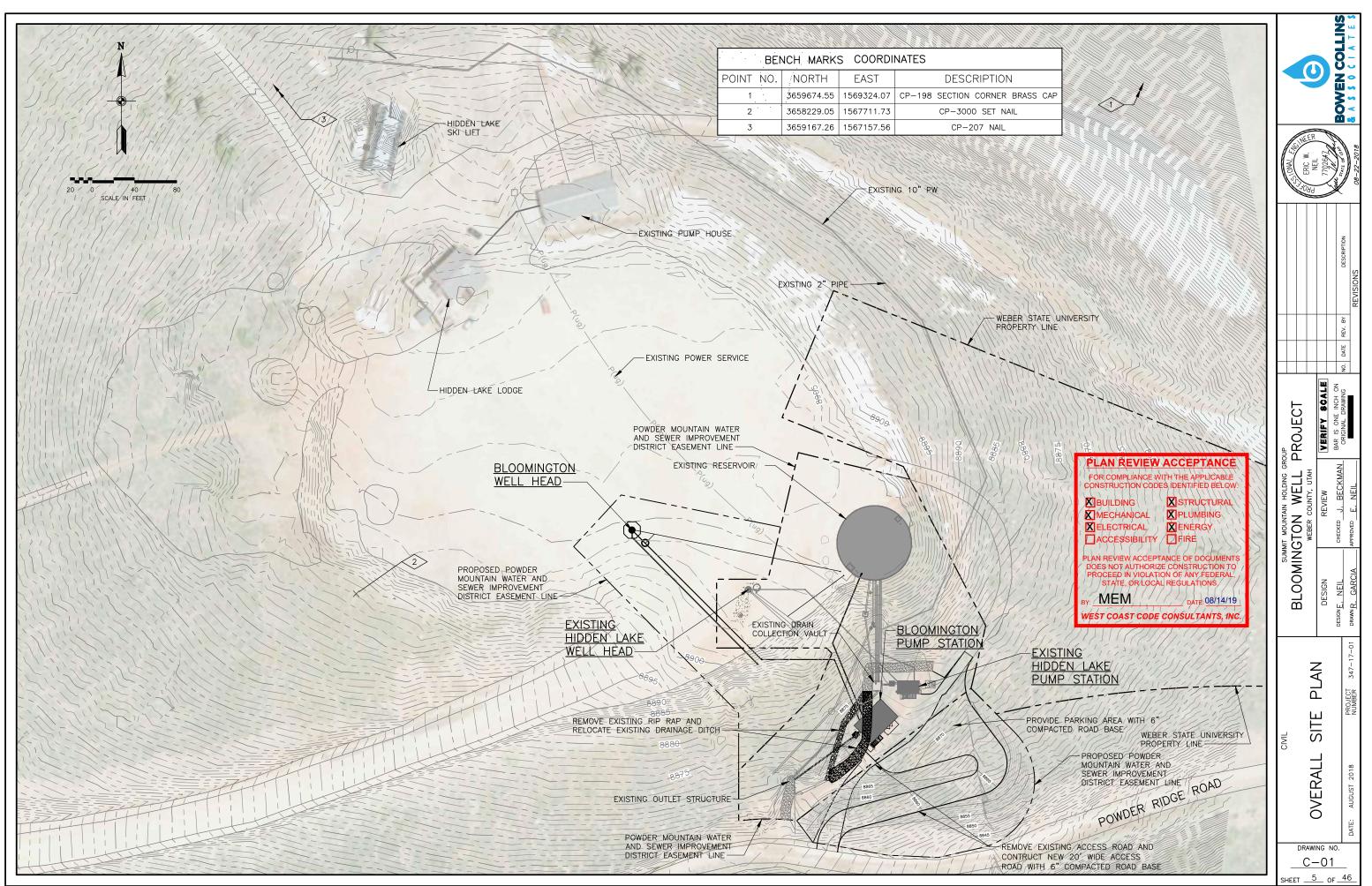
X STRUCTURAL **X** PLUMBING XENERGY □ACCESSIBILITY □FIRE

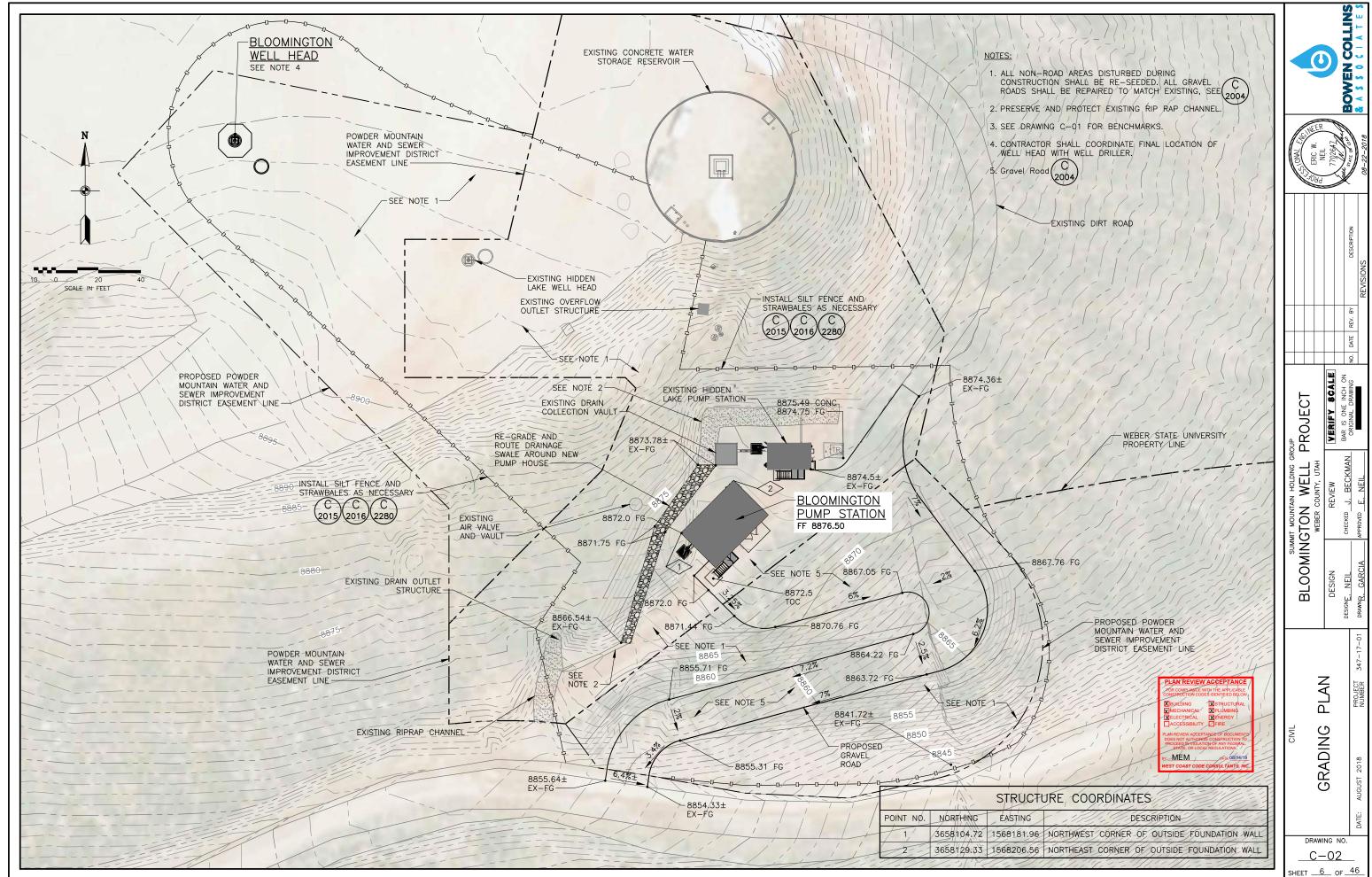
PLAN REVIEW ACCEPTANCE OF DOCUMENTS DOES NOT AUTHORIZE CONSTRUCTION TO ROCEED IN VIOLATION OF ANY FEDERAL STATE, OR LOCAL REGULATIONS.

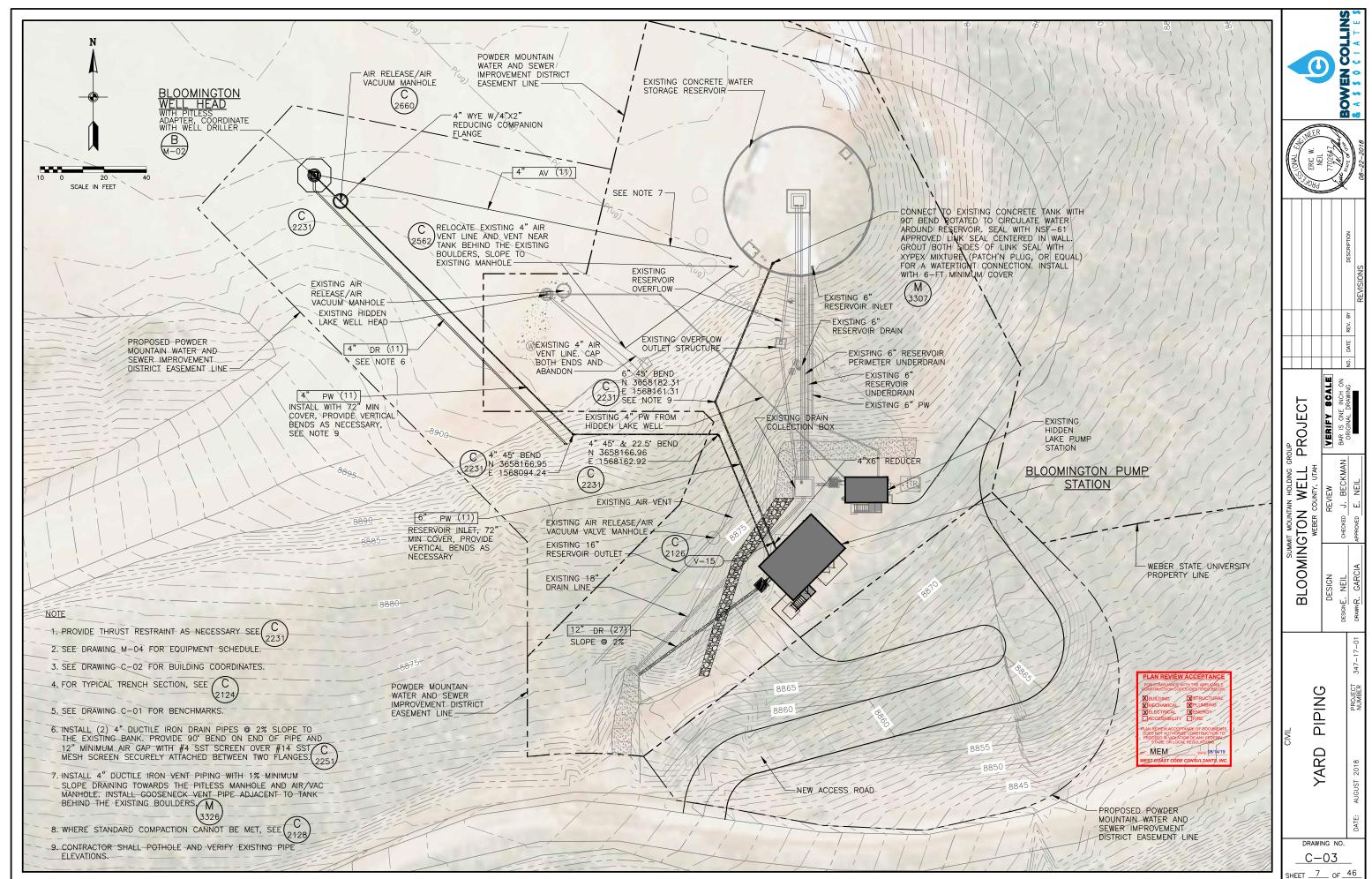
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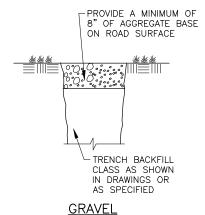
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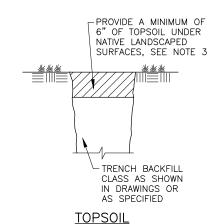
WEST COAST CODE CONSULTANTS, INC









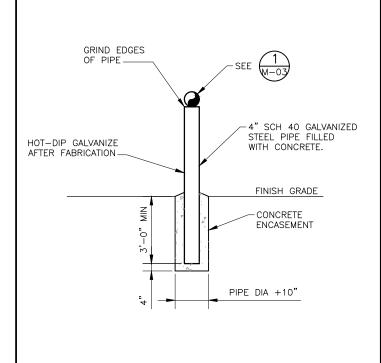


NOTES:

- BASE RESTORATION SELECT FILL:
 A. USE UNTREATED BASE COURSE TYPE G
 B. MATCH EXISTING AGGREGATE BASE THICKNESS OR PROVIDE AT LEAST 8 INCHES OF AGGREGATE BASE. INSTALL AND COMPACT ALL BACKFILL MATERIAL PER SPECIFICATION SECTION 31 23 00.
- 2. PROVIDE SURFACE TO MATCH EXISTING GRADE. REPLACE VEGETATION TO MATCH PRE-CONSTRUCTION CONDITIONS AS
- 3. REVEGETATION USE THE SEED MIX BELOW FOR ALL DISTURBED AREAS:

NO.	COMMON NAME	BOTANICAL NAME	LBS PLS/ACRE	% OF MIX	SEED/SF
1	INDIAN RICEGRASS	ANCHNATHERUM HYMENOIDES	4.7	27.5	15
2	WYOMING BIG SAGEBRUSH	ARETEMISIA TRIDENTATA WYGENSIS	0.1	0.8	8
3	RUBBER RABBITBRUSH	CHRYSOTHANMNUS NAUSEOUS	0.5	3.0	5
4	WHITE EVENING PRIMROSE	OENOTHERA PALLIDA	0.3	1.7	3
5	WESTERN WHEATGRASS	PASCOPYRUM SMITHII	10.5	62.0	27
6	SANDBERG BLUEGRASS	POA SANDERGII	0.7	4.0	14
7	SAND DROPSEED	SPOROBOLUS CRYPTANDRUS	0.2	1.0	21
		TOT.	AL 17.0	100.0	93



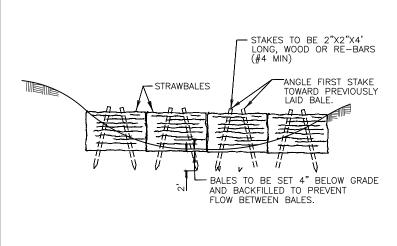


BOLLARD PIPE SUPPORT

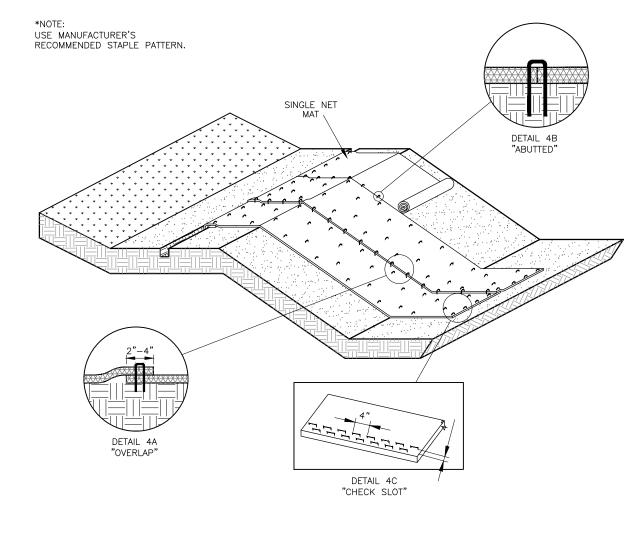
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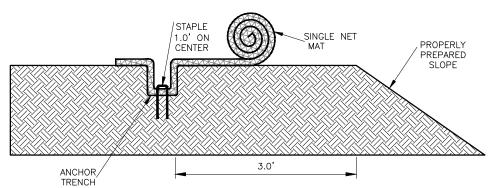
NOTES:

- 1. STRAWBALES TO BE REPLACED AS NECESSARY DUE TO DAMAGE OR CLOGGING WITH SILT. SILT TO BE REMOVED IN FRONT OF BALES REGULARLY TO PREVENT EXCESSIVE SOIL BEARING WEIGHT ON THE BALES.
- 2. STRAWBALES TO BE PLACED ON EXISTING GRADE IN UNDISTURBED AREAS.



STAKED STRAWBALE DETAIL SCALE: NTS





MEM

EROSION CONTROL BLANKET/NET MAT SCALE: NTS

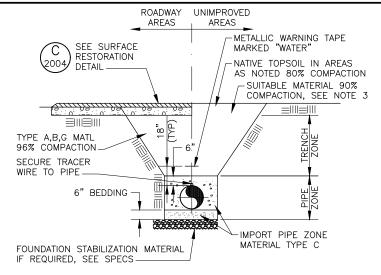


VERIFY SCALE

PROJECT

WELL

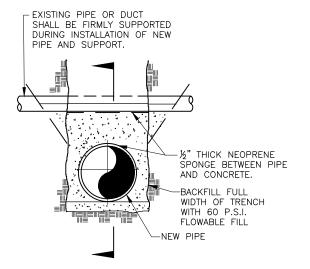
BLOOMINGTON



NOTES:

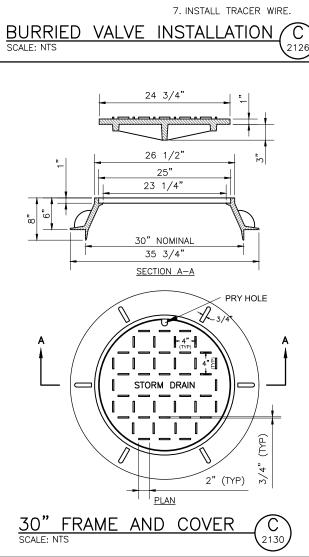
- 1. SEE SPECIFICATIONS SECTION 31 23 00 "EARTHWORK" FOR DEFINITION OF BACKFILL MATERIAL AND COMPACTION REQUIREMENTS.
- 2. IMPORT BACKFILL REQUIRED FOR TRENCH BACKFILL UNDER ROADWAY AREAS.
- 3. NATIVE MATERIAL MEETING SPECIFICATION REQUIREMENT FOR 'SUITABLE MATERIAL' MAY BE USED FOR TRENCH ZONE BACKFILL IN UNIMPROVED AREAS.
- 4. BENCH TRENCH AS REQUIRED TO INSTALL DUAL WATER LINES TO DEPTHS AND GRADES SHOWN ON PLANS.

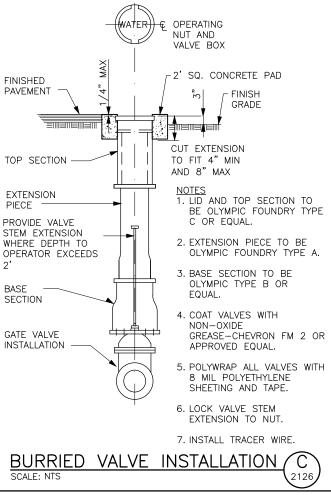


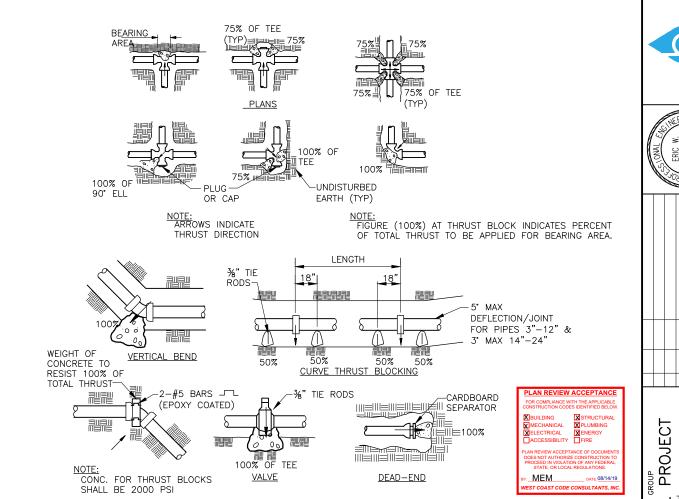


UNDERGROUND UTILITY SUPPORTS ARE TO BE PROVIDED WITHOUT ADDED COST TO OWNER WHEN MINIMUM CLEARANCE OF 12 INCHES CANNOT BE PROVIDED OR ADEQUATE COMPACTION CAN NOT BE OBTAINED USING MECHANICAL MEANS.

UNDERGROUND UTILITY SUPPORT SCALE: NTS







REQUIRED LENGTH OF RESTRAINED								
PIPE	FOR VA	ARIOUS	FITTINGS	(FT)				
PIPE SIZE (N)	DEAD END OR TEE	HORIZ. 90° BEND	VERTICAL 22.5° BEND	HORIZ. 45° BEND				
6-DI	57	21	12	9				
6-PVC	38	17	10	8				
12-PVC	71	32	15	14				
16-PVC	92	41	19	17				

					_		
			F RESTR FITTINGS			CC FO	
SIZE (N)	DEAD END OR TEE		VERTICAL 22.5° BEND	HORIZ. 45° BEND		PIPE SIZE (N)	DE.
-DI	57	21	12	9		4	
-PVC	38	17	10	8		6	
-PVC	71	32	15	14		12	

1. LENGTH GIVEN FOR BENDS REPRESENTS THE RESTRAINED LENGTH REQUIRED FOR EACH SIDE OF BEND.

NOTE:
CONTRACTOR SHALL INSTALL THRUST RESTRAINT AT ALL FITTINGS PRIOR TO PRESSURIZING THE WATER LINE. IN ALL AREAS WHERE THE PIPELINE WILL NOT BE PRESSURIZED FOR 5 DAYS CONTRACTOR SHALL HAVE THE OPTION OF USING RESTRAINED PIPE LENGTHS OR CONCRETE THRUST BLOCKS IN ACCORDANCE WITH THE TABLES ABOVE. WHERE THE NEW LINES WILL CONNECT TO EXISTING WATER MAINS, MECHANICAL THRUST RESTRAIN AND THRUST BLOCKS WILL BE REQUIRED TO ALLOW THE NEW PIPELINE TO BE PUT INTO SERVICE IMMEDIATELY AFTER ACCEPTANCE.

MINIMUM BEARING AREA OF ICRETE THRUST BLOCKS VARIOUS FITTINGS (FT2)

			•	<u> </u>
PIPE SIZE (N)	DEAD END OR TEE	90° BEND	45° BEND	22.5° BEND
4	2	3	2	1
6	4	6	3	2
12	16	22	12	6
16	28	38	21	11

- 1. THRUST BLOCKS TO BE INSTALLED IN ACCORDANCE WITH DETAIL SHOWN ABOVE.
- 2. CONCRETE MUST BE ALLOWED TO CURE IN THRUST RESTRAINTS FOR 5 DAYS PRIOR TO PRESSURIZING WATER LINES OR HAVE ADDITIONAL APPROVED THRUST RESTRAINTS INSTALLED PRIOR TO
- 3. PRIOR TO POURING CONCRETE FOR THRUST BLOCKS, WRAP PIPE SYSTEM WITH 8 MIL THICK PLASTIC SHEET TO PREVENT BONDING OF CONCRETE TO PIPE SYSTEM.
- VALUES PROVIDE ASSUME AT LEAST 5 FEET OF COVER AND SOIL BEARING STRENGTH OF 3500 PSF

CONCRETE THRUST BLOCKS 2231

CIVIL -2 S GENERAL DETAIL DRAWING NO.

GC-02

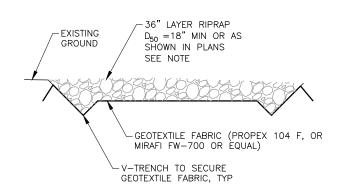
SHEET 9 OF 46

SCALE

VERIFY

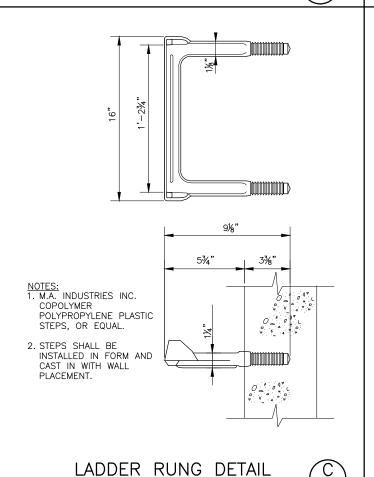
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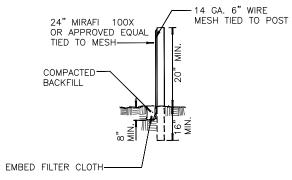
BLOOMINGTON



WHEN D₅₀=6", PROVIDE 18" LAYER RIPRAP, SEE PLAN FOR LOCATION.

RIPRAP & ARMOR PROTECTION





NOTES:

- 1. POSTS SPACED 10' O.C. MAX.
- 2. FILTER CLOTH TO BE TIED TO MESH EVERY 24" AT TOP AND MIDDLE WITH 6" FOLDED OVERLAP AT VERTICAL SEAMS
- 3. FENCE SHALL BE MAINTAINED AND ACCUMULATED MATERIAL REMOVED



MEM

PROJECT SUMMIT MOUNTAIN HOLDING
BLOOMINGTON WELL
WEBER COUNTY, UTAH GENERAL DETAILS DRAWING NO.

CIVIL -3

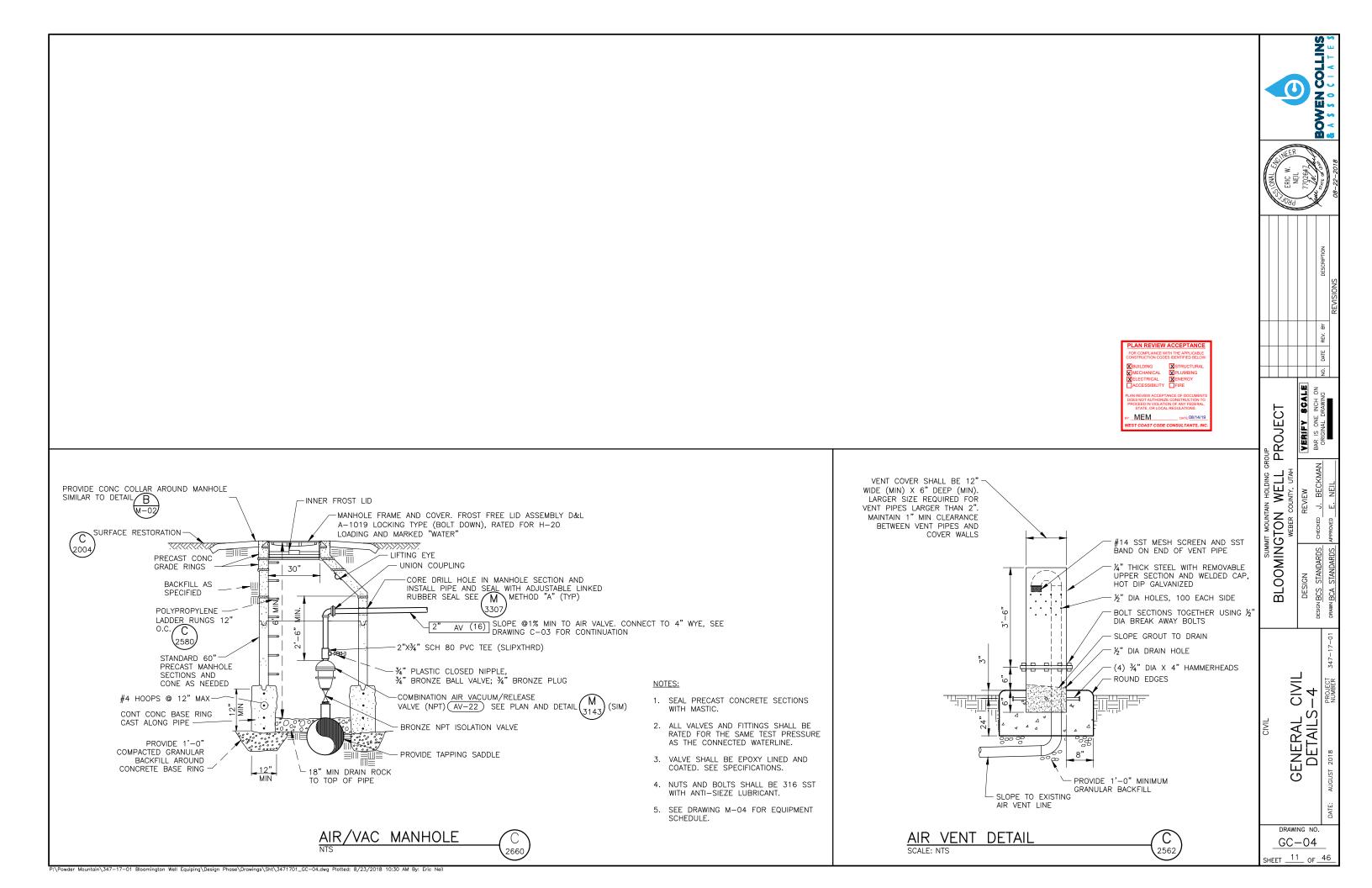
GC-03

SHEET 10 OF 46

VERIFY SCALE

2580

SCALE: NTS



ROOF REFERENCE NOTES

- PROVIDE VENTILATION AS INDICATED.
- ROOFING TO BE CLASS C.
- ROOFING SHALL BE INSTALLED IN ACCORDANCE WITH

- MANUFACTURER'S SPECIFICATIONS.
 VERIFY ALL CONDITIONS PRIOR TO INSTALLATION.
 CRICKETS AND OVERHANGS SHALL PROVIDE A MIN. %" SLOPE
 EXTEND ICE AND WATERSHIELD UNDERLATMENT PROTECTION OVER ROOF, EXPECT WITHIN 24" OF RIDGES, INCLUDING ALL ROOF PERIMETERS, PROJECTIONS, PENETRATIONS, VALLEYS AND WALL INTERSECTIONS AND EXTERIOR WALL/ROOF INTERSECTIONS. 24" AT RIDGES SHALL RECEIVE 30# ROOF UNDERLAYMENT, OVERLAP
- ICE SHIELD. ALL EXPOSED MECHANICAL VENTS & GRILLES TO BE PRE-FINISHED AS SELECTED BY ARCHITECT.

 ALL EXPOSED WOOD SHALL BE PAINTED AND / OR STAINED.
- PROVIDE 28 GAUGE GALVANIZED SHEET METAL VALLEY
- FLASHING 12" BOTH SIDE OF VALLEY OR EQUIPMENT CURB.
 REFER TO FLASHING DETAILS FOR PERIMETER FLASHING.
 PROVIDE METAL ROOF CRICKETS AT ALL ROOF
- PENETRATIONS. ALL FLUES / VENT SHALL BE U.L. LISTED.

ATTIC VENTILATION ()300 SF REQUIRED), PROVIDE 1 PERM VAPOR BARRIER ON WARM SIDE OF ALL CEILINGS AT ROOF.

CLIMAGUARD STORM-LOK STANDING SEAM STEEL ROOF. FABRAL EDURACOTE, OR APPROVED EQUAL COLOR: LIGHT GRAY 889.

FLASHING AT ROOF PER SHEET A-3

ROOF AREA / VENTILATION CALCULATION: ROOF AREA: 1,015 SF (1,015 / 300 = 3.4 SF)

REQUIRED VENT AREA = 3.4 S.F. ROOF PERIMETER: 128'

ROOF LENGTH (SOFFIT LENGTH): 38.42' (34.92' AT INTERIOR)

LOW SIDE, PROVIDE TWO 2" VENTILATION HOLES PER CAVITY, WITH INSECT SCREEN.

(102) 2" DIA VENTILATION HOLES = (0.02SF * 102) = 2.04 SF

LINE OF BUILDING BELOW, PER PLAN,

PROVIDE THREE HOLES PER CAVITY, WITH INSECT SCREEN.

(102) 2" DIA VENTILATION HOLES = (0.02SF * 102) = 2.04 SF PROVIDE THREE HOLES PER CAVITY, WITH INSECT SCREEN.

HIGH SIDE PROVIDE TWO 2" VENTILATION HOLES PER CAVITY, WITH INSECT SCREEN

TOTAL ROOF VENTILATION PROVIDED = 4.08 SF

CODE OVERVIEW

OCCUPANCY CLASSIFICATION:

CHAPTER THREE: U UTILITY AND MISCELLANEOUS

BUILDING AREA PER FLOOR:

CHAPTER FIVE: TOTAL BUILDING 800 S.F.

ALLOWABLE AREA: BASE ALLOWABLE (TABLE 506.2): 5.500 S.F

TYPE OF CONSTRUCTION: CHAPTER SIX: VB, NS

SPRINKLER SYSTEM:

NOT EQUIPPED WITH AUTOMATIC SPRINKLER SYSTEM.

MEANS OF EGRESS OCCUPANT CALCULATIONS:

CHAPTER 10:

MECHANICAL ROOM OCCUPANTS: (300 S.F./GROSS - 800 S.F.)

3 OCCUPANTS

TOTAL EGRESS WIDTH:

3 * 0.2 = 0.6"
144" MINIMUM REQUIRED EXIT WIDTH ACTUAL EXIT WIDTH PROVIDED EGRESS:

LOUVER, SEE EXTERIOR ELEVATIONS AND MECHANICAL.

FLOOR DRAIN, TYP. SEE MECHANICAL PLANS.

PROVIDE PIPING PER MECHANICAL DRAINS. GC TO COORDINATE ALL SHEETS AND DISCIPLINES.

TRAVEL DISTANCE: 30' EXIT

PLUMBING FIXTURE CALCULATIONS:

PROVIDE CLITTER AND DOWNSPOUTS, DRAIN TO 10' BEYOND BUILDING.

CHAPTER 29. TABLE 2902.1: NOT REQUIRED U OCCUPANCY

BASIS OF DESIGN

APPLICABLE CODES:

2015 EDITION OF THE INTERNATIONAL BUILDING CODE W/ STATE OF UTAH AMENDMENTS. 2015 EDITION OF THE INTERNATIONAL PLUMBING CODE. 2015 EDITION OF THE INTERNATIONAL MECHANICAL CODE. 2014 EDITION OF THE NATIONAL ELECTRICAL CODE. 2015 EDITION OF THE INTERNATIONAL FIRE CODE. 2015 EDITION OF THE INTERNATIONAL FIRE CODE. 2015 EDITION OF THE INTERNATIONAL FUEL GAS CODE. 2015 EDITION OF THE INTERNATIONAL FUEL CAS CODE. 2016 EDITION OF THE INTERNATIONAL ENERGY CONSERVATION CODE. 2009 ICC/ANSI A117.1 INSTRUCTIONS

AND STATE OF UTAH AMENDMENTS TO THOSE CODES.

<u>DEFERRED SUBMITTALS</u>
2015 IBC SECTION 107.3.4.1 DEFERRED SUBMITTALS; IN ADDITIONAL TO THE ITEMS
LISTED ON THE STRUCTURAL DRAWINGS, ITEMS TO BE SUBMITTED TO THE ARCHITECT FOR REVIEW PRIOR TO THE WORK COMMENCING SHALL INCLUDE:

1. N.A.

CONTRACTOR SHALL ABIDE BY THE UTAH DIVISION OF AIR QUALITY REQUIREMENTS AND SHALL CONTRACT THE UTAH DIVISION OF AIR QUALITY AT (801) 536-4400.

MEM

34'-11'

STAIR AND RAIL SYSTEM PER

PLAN REFERENCE NOTES

- ALL PIPING, EQUIPMENT, ELECTRICAL PANELS, ETC. SHOWN ON THIS SHEET FOR REFERENCE ONLY. REFER TO DISCIPLINE SHEET FOR INFORMATION AND
- INSTRUCTIONS.

 STAIR RUNS TO HAVE EQUAL TREADS, AND EQUAL RISERS TO WITHIN 1/8". TYP. PROVIDE SWPPP PLAN & CONSTRUCTION MITIGATION PLAN PER CIVIL. DIMENSIONS SHALL BE TO EDGE OF CONCRETE, EDGE OF MASONRY, CENTER OF COLUMNS, AND PER STRUCTURAL UNLESS NOTED OTHERWISE. PROVIDE DOOR AND FRAMES PER NOTES. ALL HARDWARE TO MEET ACCESSIBILITY STANDARDS OF ANSI ALTJ 1-2012.
- STANDARDS OF ANSI A117.1-2012.
- PROVIDE SLAB ON GRADE THICKNESS AND REINFORCING PER STRUCTURAL. ALL SURFACES SHALL BE PAINTED, U.O.N.

DOOR NOTES

DOOR SPEC: MANUFACTURER: CECO DOOR PRODUCTS, AN ASSA ABLOY GROUP COMPANY.

EXTERIOR INSULATED DOOR, INSULATED R=6.0: EXTRA HEAVY DUTY, FACE SHEETS FABRICATED FROM METALLIC-COATED STEEL SHEET. COMPLY WITH ANSI/SDI A250.8 FOR LEVEL AND MODEL AND ANSI/SDI A250.4 FOR PHYSICAL PERFORMANCE LEVEL: LEVEL 3 AND PHYSICAL PERFORMANCE LEVEL A, MODEL 2 (SEAMLESS).

DOOR KEYED LOCKSET TO MATCH EXISTING HIDDEN LAKE PUMP STATION, FIELD VERIFY.

- DR 1:

 CONTINUOUS HINGE CFM SLF—HD
 FLUSH BOLT
 FLUSH BOLT
 DUST PROOF STRIKE 575
 CYLINDRICAL LOCK (CLASSROOM) 28 10G37 LL LC
 SURFACE OVERHEAD HOLDER 9—X26
 PROTECTION PLATE K1050 107 X2° LDW 4BE CSK
 THEE-HOLD
 THEE-HOLD US26D US26D US26D 630
- DOORS 2 & 3: T4A3386 4½x4½ NRP
- JOORS 2 & 3:
 3 HINGES
 1 KICKPLATE
 1 WEATHERSTRIP
 2 WEATHERSTRIP
 1 DOOR BOTTOM
 1 THRESHOLD 32D EN US32D 14A3386 4½x4½ NKP 351 CPS KP50 10" x 2" LDW MCK2891 AS @ HEAD MCK290 AS @ JAMBS MCK315 CN MCK271 A

MANUFACTURER'S ABBREVIATION: MC McKINNEY SA SARGENT PE PEMKO RO ROCKWOOD RF RIXSON

SCALE VERIFY

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22 AUGUST 2018

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- LOUVER, SEE EXTERIOR ELEVATIONS AND MECHANICAL.

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TATION PLAN N. \propto

UMP FLOOF

DRAWING NO A-1

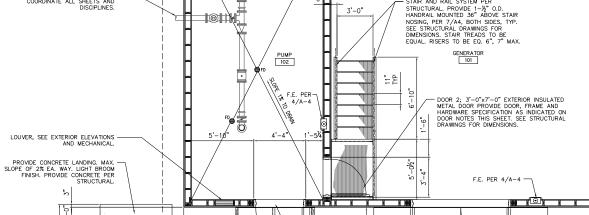
A4FLOOR PLAN

hoffman architects_{llc}

A1ROOF PLAN

SEE PLAN FOR ROOF OVERHANG DIMENSIONS

1308 south 1700 east #202 salt lake city, utah 84108 o 801 583 3400 f 866 213 9895



4'-33/4"

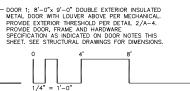
42" HIGH GUARD, EACH SIDE, PER STRUCTURAL

DOOR 3; 4'-0"x7'-0" EXTERIOR INSULATED METAL DOOR. PROVIDE EXTERIOR THRESHOLD PER DETAIL 2/A-4. PROVIDE DOOR, FRAME AND HARDWARE SPECIFICATION AS INDICATED ON DOOR NOTES THIS SHEET. SEE STRUCTURAL DRAWINGS FOR DIMENSIONS.

53/4"

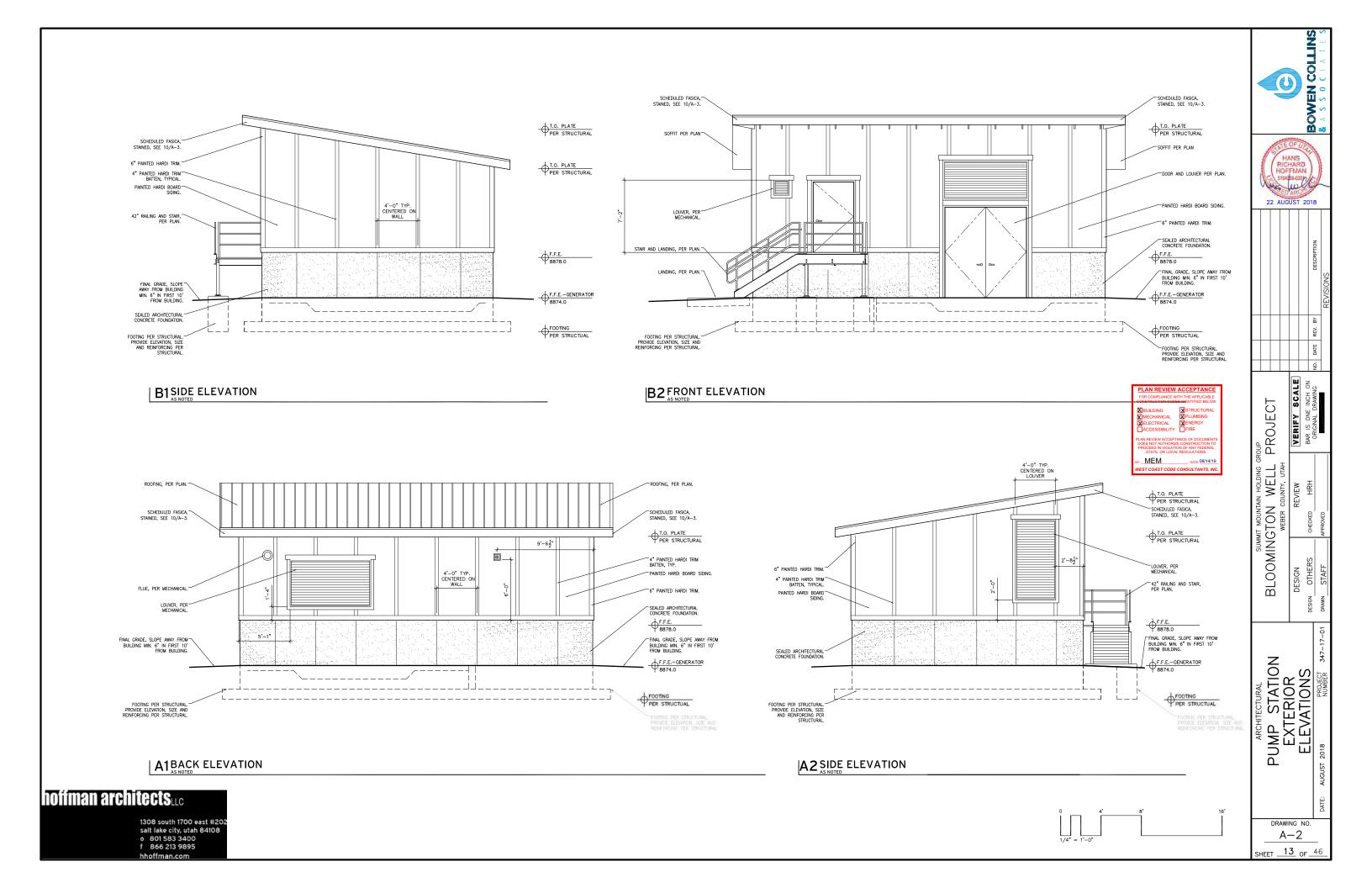
4'-21/4"

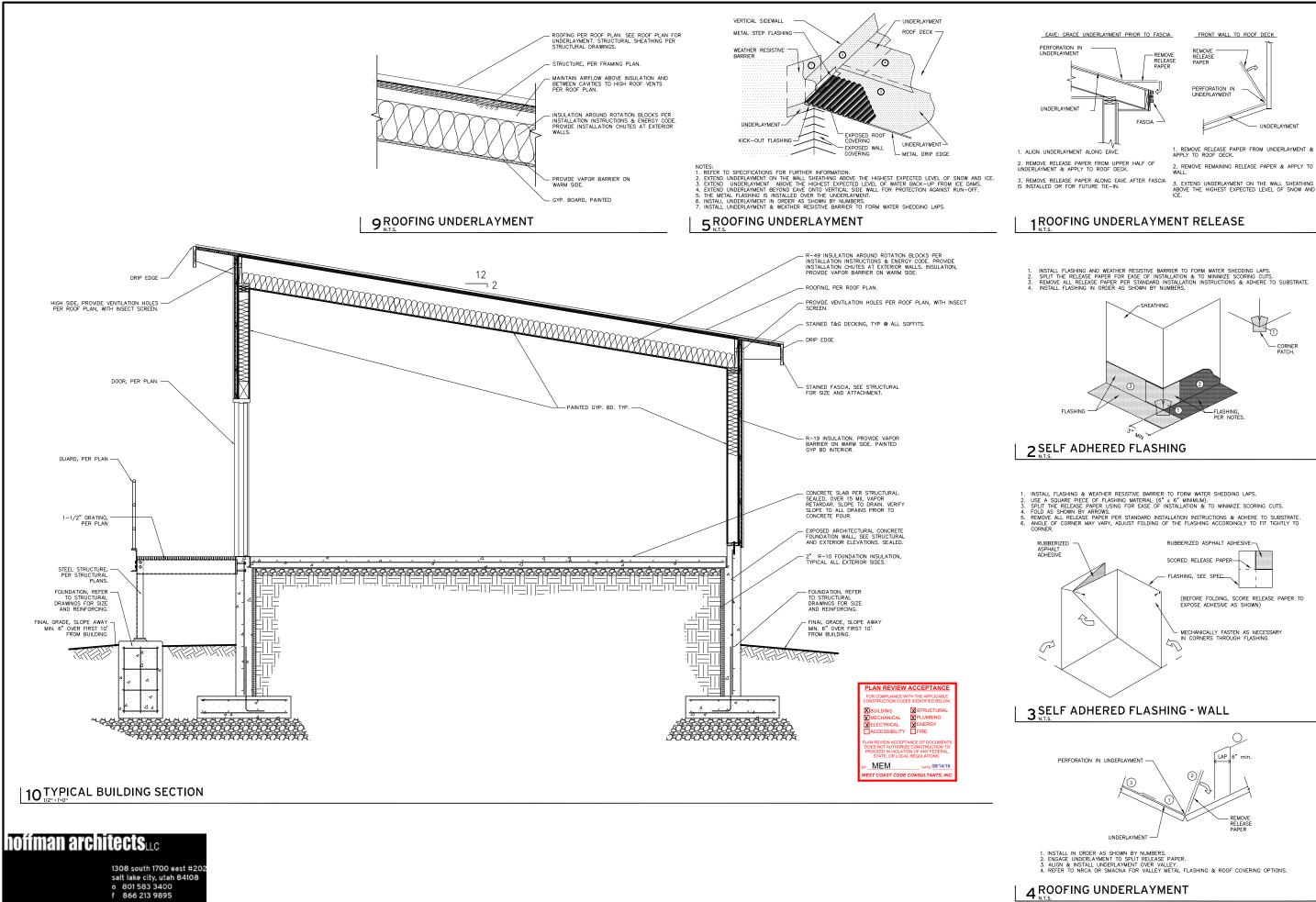
STAIR AND RAIL SYSTEM PER
STRUCTURAL. PROVIDE 1—½" O.D.
HANDRAIL MOUNTED 36" ABOVE STAIR
NOSING, PER 7/A4, BOTH SIDES, TYP.
SEE STRUCTURAL DRAWINGS FOR
DIMENSIONS, STAIR TREADS TO BE
EQUAL. RISERS TO BE EQ. 6", 7" MAX.

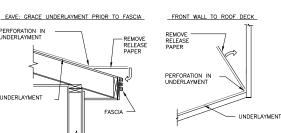


12 OF 46 HEET

- PROVIDE CONCRETE LANDING. MAX. SLOPE OF 2% EA. WAY. LIGHT BROOM FINISH. PROVIDE CONCRETE PER STRUCTURAL.







1. REMOVE RELEASE PAPER FROM UNDERLAYMENT & APPLY TO ROOF DECK.

HANS RICHARD HOFFMAN

SCALE

VERIFY

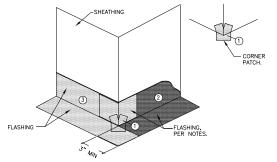
PROJECT

WELL

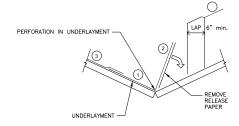
SUMMIT MOUNTAIN
SLOOMINGTON
WEBER COL

BOWEN

3. EXTEND UNDERLAYMENT ON THE WALL SHEATHING ABOVE THE HIGHEST EXPECTED LEVEL OF SNOW AND ICE.



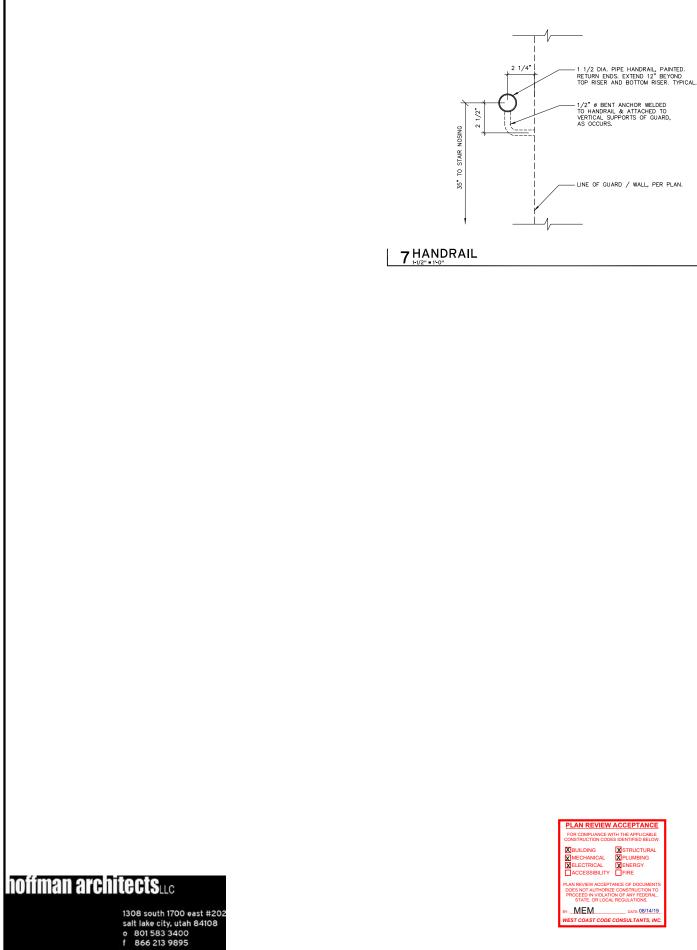
- (BEFORE FOLDING, SCORE RELEASE PAPER TO EXPOSE ADHESIVE AS SHOWN) MECHANICALLY FASTEN AS NECESSARY IN CORNERS THROUGH FLASHING



 $\overline{\mathbb{B}}$ OUMP STATION SECTION & DETAILS Ф

DRAWING NO. A-3

SHEET 14 OF 46





6 CORNER DETAIL

SEE MANFACTURER FOR ROUGH OPENING

EXTERIOR SHEATHING

FLASHING

* INSTALL FLASHING IN ORDER AS SHOWN BY NUMBERS

5 SELF ADHERED FLASHING @ SILL

** INSTALL FLASHING AND WEATHER RESISTIVE BARRIER TO FORM WATER SHEDDING LAPS

SIDING PER ELEVATIONS

PROVIDE BLOCKING @ 24" O.C. MAXIMUM FOR VERTICAL

2x WALL PER STRUCTURAL W/ SCHEDULED INSUL.

HAND HELD EXTINGUISHER

SEE MANF. FOR R.O.

NOTE: COORDINATE MODEL WITH DEPTH OF STUDS. FIRE EXTINGUISHER PER NFPA 10.

4 RECESSED FIRE EXTINGUISHER

NOTE: REFER TO STRUCTURAL DRAWINGS FOR FRAMING AND HOLD DOWN ATTACHMENT. TRIM, PER ELEVATIONS SIDING PER ELEVATIONS

- FOUNDATION WALL

BEARING WALL RATING - N.A.

WOOD STUDS, SEE STRUCTURAL FOR SIZE AND SPACING

 $\underline{\text{INTERIOR WALL:}}_{\text{INTERIOR WALL TO BE }2x6\text{ STUD FRAMING PER STRUCTURAL PLAN, }5/8\text{" PAINTED GYP. BD. EACH SIDE.}$

-HARDI SIDING PER EXTERIOR ELEVATIONS, AND FRAMING PLANS. EXTERIOR INTERIOR

R-19 FIBERGLASS INSULATION

-5/8" GYPSUM BD. PAINTED. OVER VAPOR BARRIER.

-VAPOR RETARDER ON WARM SIDE OF WALL ASSEMBLY.

BEARING WALL RATING = N.A.

1. WOOD STUDS = NOM, 2 X 6 INCH SPACED 16 INCHES O.C. WITH TWO 2 X6 INCH TOP AND ONE 2 X 6 INCH BOTTOM PLATES. STUDS LATERALLY BRACED AND EFFECTIVELY FIRE STOPPED AT TOP AND BOTTOM OF WALL.

2. BATTS AND BLANKETS* — MINERAL FIBER OR GLASS FIBER INSULATION, 5 1/2" THICK. MINERAL FIBER INSULATION TO BE UNFACED AND TO HAVE A MIN DENSITY OF 3 PCF. GLASS FIBER INSULATION TO BE FACED AND HAVE A MINIMUM DENSITY OF 0.9 PCF. 3 WALLBOARD, CYPSUM* — 5/8 IN. THICK: 4 FT. WDE, APPLIED VERTICALLY WITH 6D CEMENT COATED NAILS 0 B INCHES 0.C. 4. WOOD STRUCTURAL SHEATHING — 4 FT WIDE WOOD STRUCTURAL PAPLES. INSTALLED WITH LONG DIMENSION OF SHEET OF FACE GRAND PLYWOOD PARALLEL WITH OR PERPENDICULAR TO STUDS. VERTICAL JOINTS CENTERED ON STUDS. HORIZONTAL JOINTS BACKED WITH NOM. 2 X 4 INCH WOOD BLOCKING. 5. EXTERIOR WALL FACINGS: INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS INSTALLATION INSTRUCTIONS.

3 TYPICAL WALL

, WALL, PER PLAN	
LOCATION OF SCHEDULED EXTERIOR SIDING, PER PLANS.	*
ALL WOOD FRAMING AND OR SIDING TO BE 12" MIN. ABOVE FINAL GRADE. TYPICAL. SEE DETAIL 5/A-4 FOR SILL	CURB, PER PLAN
FLASHING DETAIL CONCRETE FOUNDATION WALL.	LINE OF FLOOR.
LINE OF GRADE.	, MIN,
	REFER TO STRUCTURAL DRAWINGS.
'	

INTERIOR

-ALUMINUM THRESHOLD SET IN MASTIC AND ANCHORED WITH FASTENERS AS RECOMMENDED BY MANUFACTURER.

-PROVIDE THERMAL BREAK, 1/2" EXPANSION MATERIAL WITH JOINT SEALANT AT ALL SLAB ON GRADE CONDITIONS. SEE STRUCTURAL.

RIGID INSULATION, PER SECTIONS ATTACHED TO FOUNDATION WALL.

CONCRETE SLAB ON VAPOR BARRIER

FREE DRAINING GRAVEL

1TOP OF FOUNDATION

EXTERIOR

ШШ

2 THRESHOLD DETAIL

DOOR. PER PLAN

FLOOR GRATING



22 AUGUST 2018								
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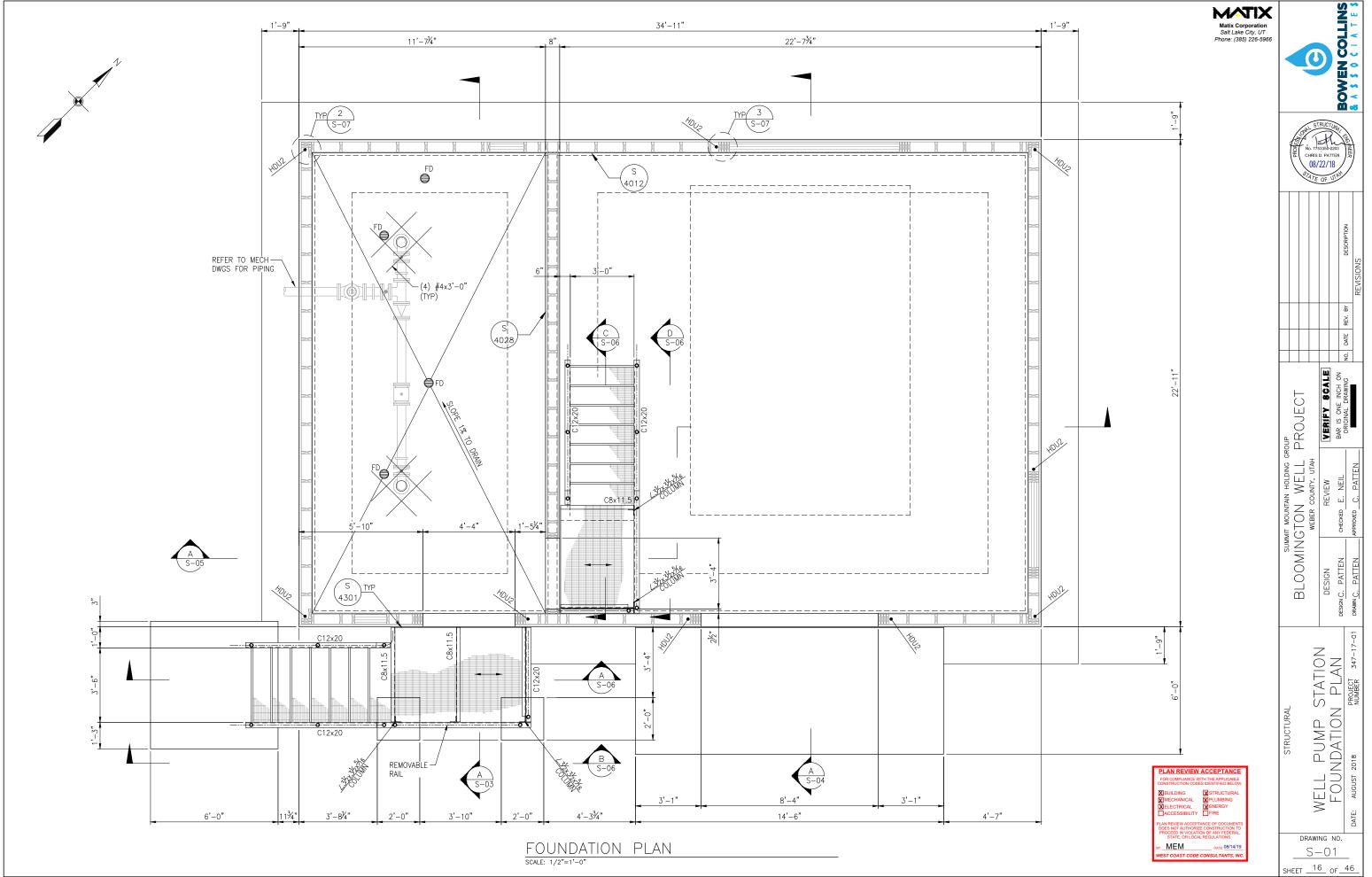
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BLOOMING

STATION **DETAILS** UMP ۵

DRAWING NO. A-4

SHEET 15 OF 46



	SHE.	AR WALL SCHE	DULE	
WALL	SHEATHING MATERIAL	EDGE NAILING	FIELD NAILING	PLATE ATTACHMENT
1	23/32" STRUCT 1 PANEL BLOCKED ONE SIDE OF WALL	10d SINKER NAILS @ 6"	10d SINKER NAILS @ 12"	1/2" TITEN HD @ 48"







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STATION 1G PLAN

PUMP ST FRAMING WELL ROOF

DRAWING NO. S - 02SHEET __17_ OF__46_

SHEAR WALL NOTES:

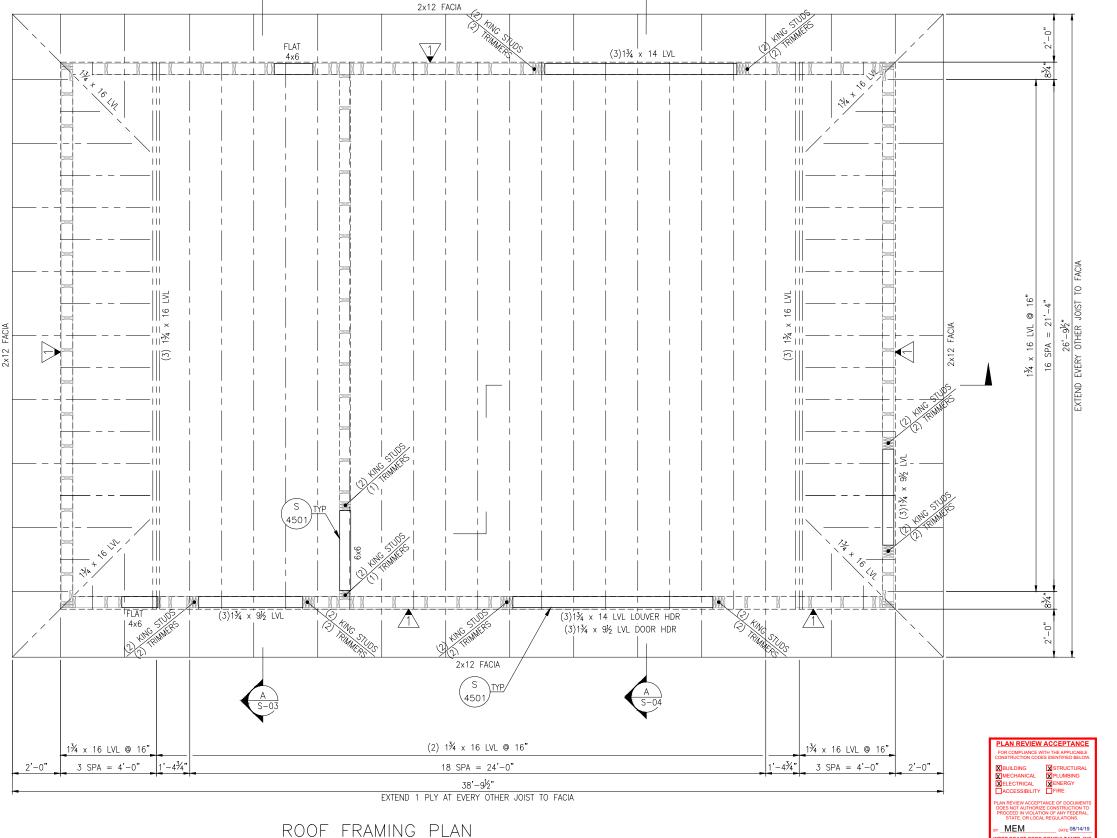
- 1. A MINIMUM OF 2 ANCHOR BOLTS SHALL BE USED ON EACH BASE PLATE. PROVIDE ANCHOR BOLT WITHIN 9 INCHES OF EACH END OF EACH PIECE.
- 2. PROVIDE CONTINUOUS TOP PLATE AT ALL SHEAR WALLS. UNLESS NOTED OTHERWISE, LAP SPLICE TOP PLATE A MINIMUM OF 48" WITH (20) 16d NAILS STAGGERED AT 4" OC ON EACH SIDE OF SPLICE JOINT.
- 3. PROVIDE FULL-HEIGHT DOUBLE STUDS MINIMUM AT ENDS OF SHEAR WALL PANELS.
- 4. ANCHOR BOLTS ARE TITEN HD AS MANUFACTURED BY SIMPSON STRONG-TIE, INC.
- 5. CORROSION RESISTANT NAILS ARE REQUIRED WHERE INSTALLED INTO PRESSURE TREATED SILL PLATE. PROVIDE STAINLESS STEEL OR HOT-TUMBLED GALVANIZED NAILS.



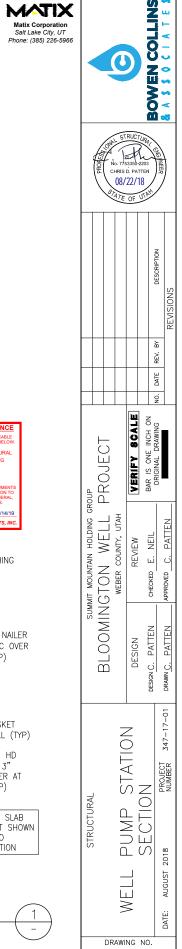


PLAN NOTES:

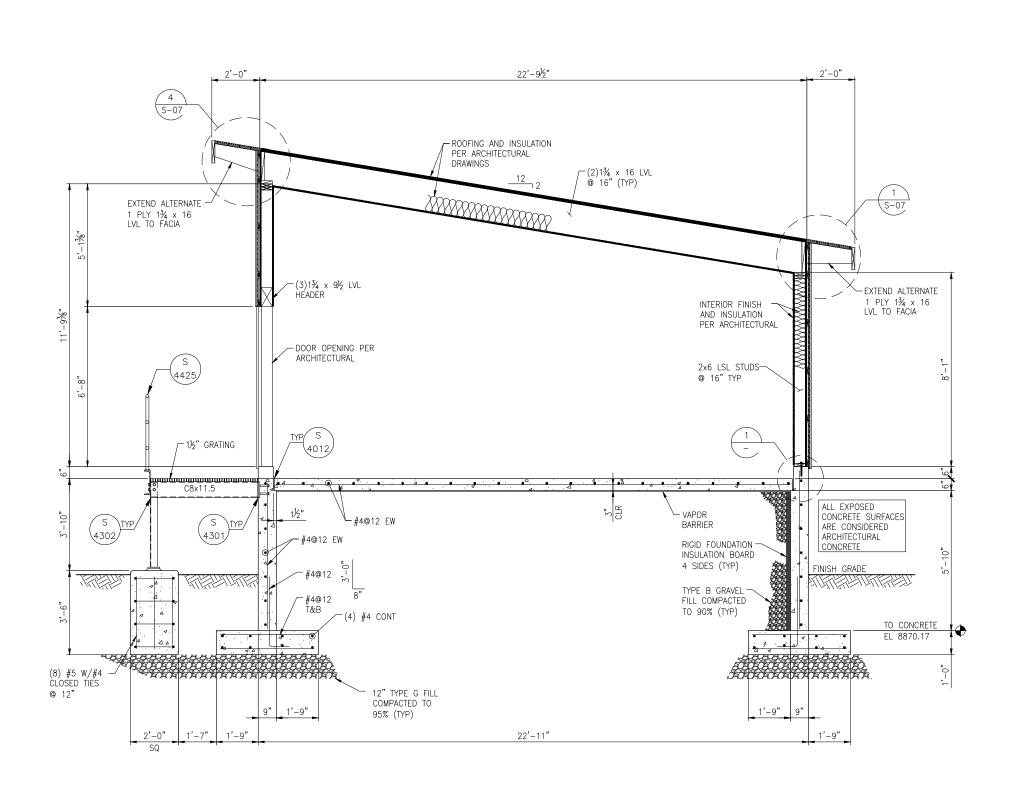
- 1. TYPICAL ROOF SHEATHING AND NAILING SHALL BE AS FOLLOWS: 2 LAYERS 23/32" STRUCTURAL 1 PANELS - STAGGER JOINTS. 10d AT 6" BOUNDARY NAILING (DIAPHRAGM BOUNDARIES, SHEAR PANEL BLOCKING, SOLID BLOCKING, AND DRAG MEMBERS. 10d AT 6" EDGE NAILING (AT PANEL EDGES). 10d AT 12" FIELD NAILING (ALONG INTERMEDIATE FRAMING MEMBERS.
- 2. SOLID SAWN HEADERS SHOWN ON THE FRAMING PLAN MAY BE SUBSTITUTED WITH BUILT-UP HEADERS PER DETAIL S/4501.



SCALE: 1/2"=1'-0"



S - 03SHEET 18 OF 46



- EXTERIOR SHEATHING PER PLAN 2x6 LSL @ 16" STUDS (TYP) -SIDING PER ARCHITECTURAL TREATED 2x6 SILL -1x4 HORIZONTAL NAILER PLATE (TYP) STRIPS @ 24" OC OVER AIR BARRIER (TYP) (4012) - SILL-SEALER GASKET UNDER WOOD SILL (TYP) $-\frac{5}{8}$ "Ø x $6\frac{1}{2}$ " TITEN HD (GALV) W/ $\frac{1}{4}$ " x 3" SQ. PLATE WASHER AT 48" MAX OC (TYP) FOUNDATION AND SLAB REINFORCING NOT SHOWN HERE. REFER TO FOUNDATION SECTION

MEM

DETAIL SCALE: 1-1/2"=1'-0"

SECTION

SCALE: 1/2"=1'-0"





SCALE

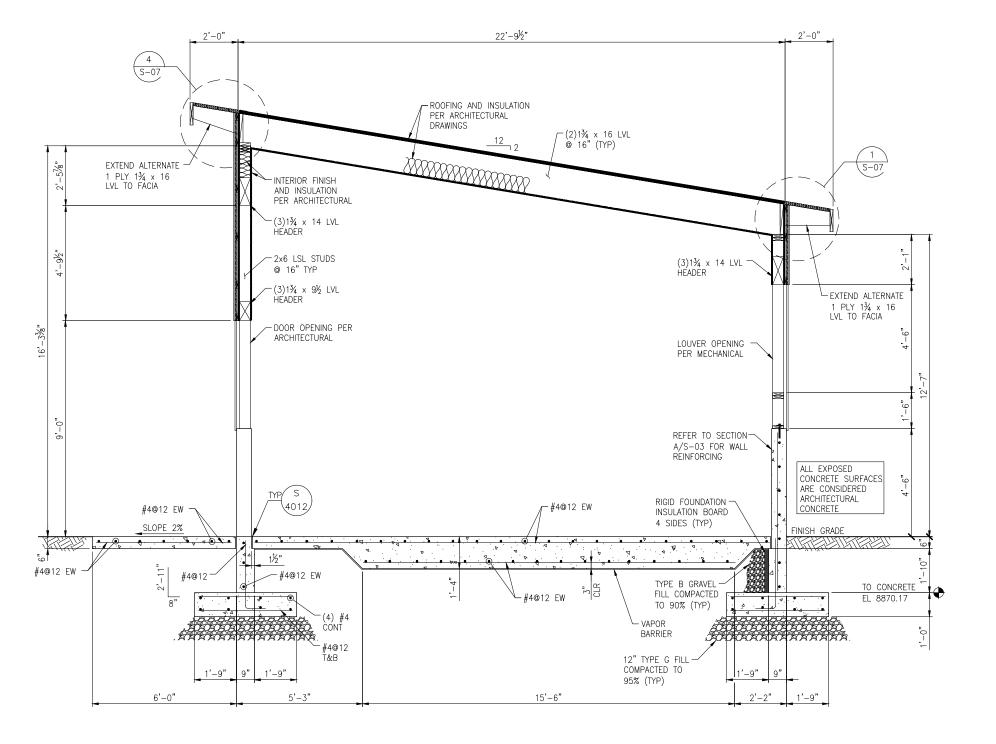
ROUP PROJECT

SUMMIT MOUNTAIN HOLDING
BLOOMINGTON WELL
WEBER COUNTY, UTAH

PUMP STATION SECTION

WELL

DRAWING NO. S - 04SHEET 19 OF 46

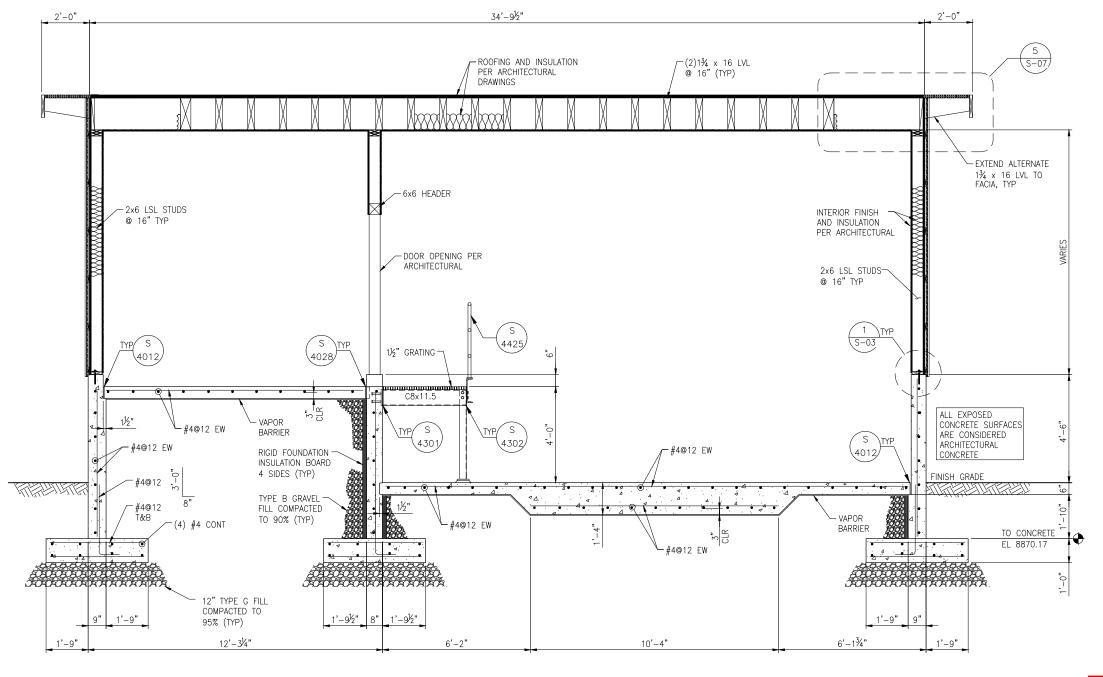


SECTION SCALE: 1/2"=1'-0"

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SECTION SCALE: 1/2"=1'-0"

PLAN REVIEW ACCEPTANCE
FOR COMPLANCE WITH THE APPULABLE
CONSTRUCTION CORES DENTIFED BELOW
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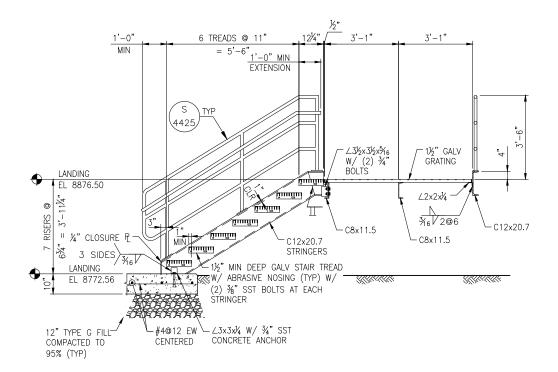
DRAWING NO. S = 0.5SHEET 20 of 46

WELL

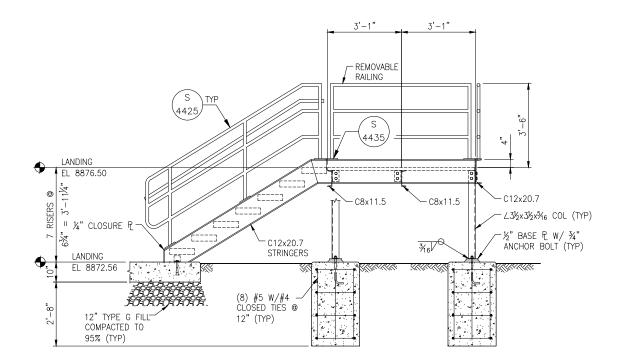
AP STATION

PUMP SECTIC

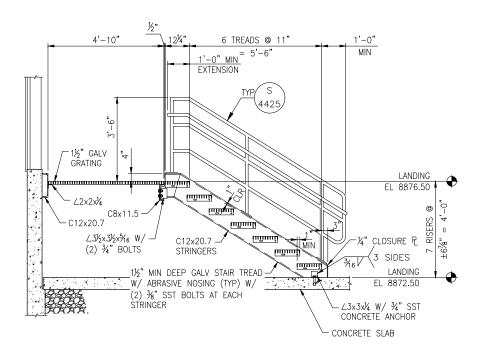




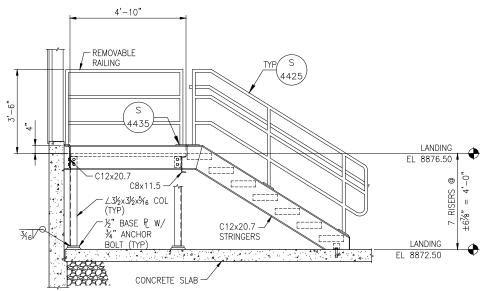












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SECTION SCALE: 1/2"=1'-0" S-01, 0



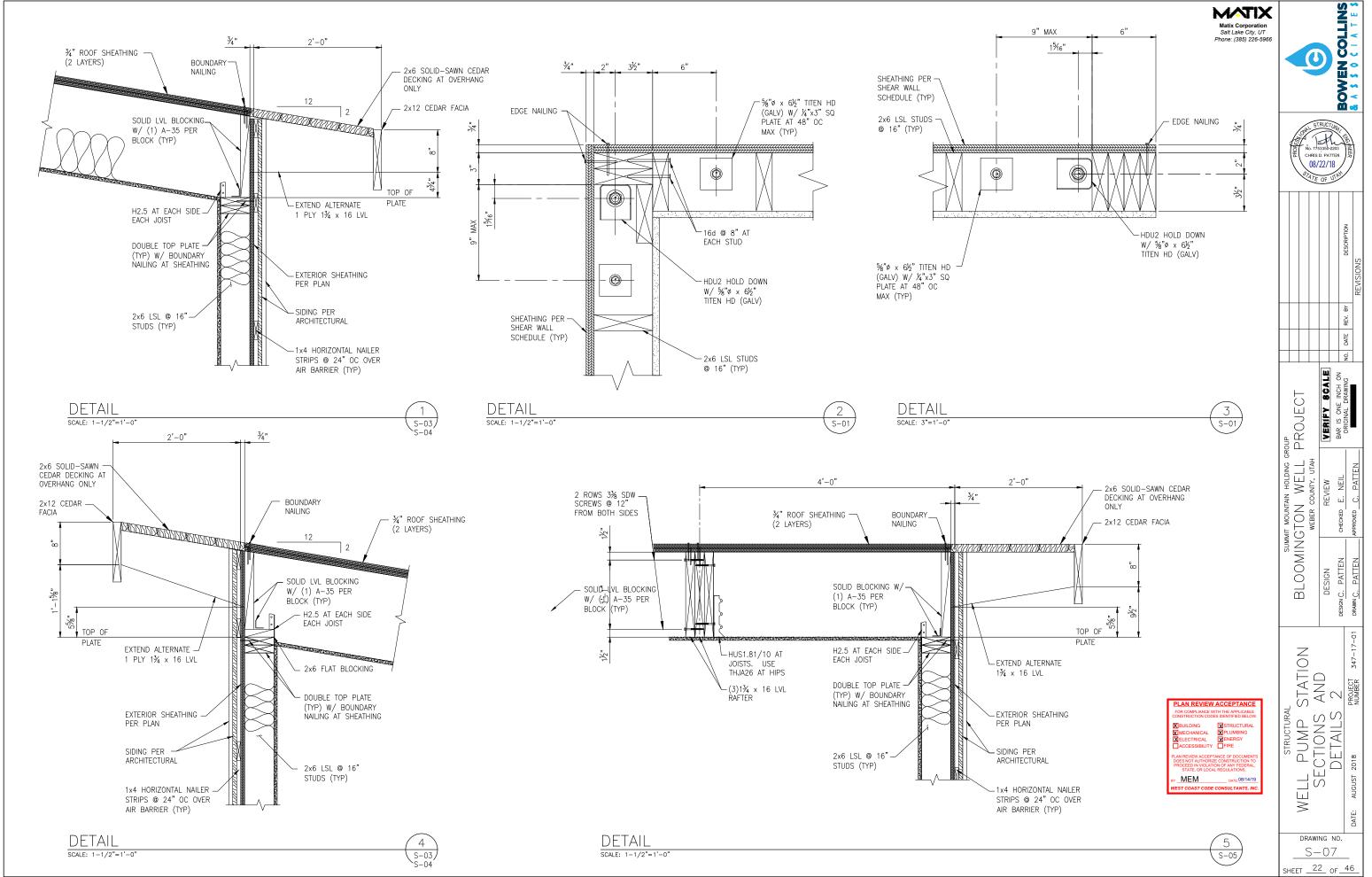
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GROUP. PROJECT

SUMMIT MOUNTAIN HOLDING
BLOOMINGTON WELL
WEBER COUNTY, UTAH

Structural WELL PUMP STATION SECTIONS AND DETAILS 1

DRAWING NO. <u>S-06</u> SHEET 21 OF 46

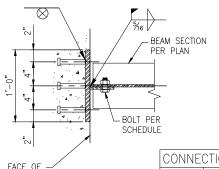




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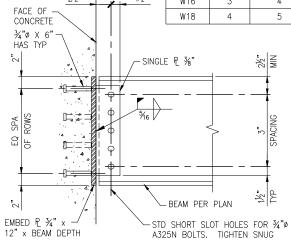
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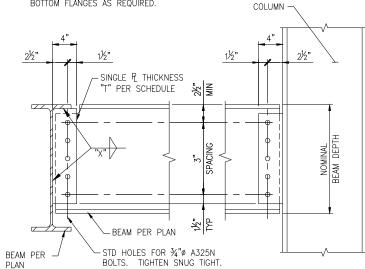
<u>PLAN</u>

CONCRETE

CONNECTION SCHEDULE ROWS ROWS OF OF HAS A325N BOLTS SECTION W8, C8 W10, C10 W12, C12 W14. C15 W16 4



NOTE:
TOP OF CONNECTING BEAMS TO BE
FLUSH UNLESS OTHERWISE INDICATED
ON THE PLANS. COPE TOP AND BOTTOM FLANGES AS REQUIRED.



С	ONNECTION	SCHEDULE	
NOMINAL BEAM DEPTH (IN)	ROWS OF A325N BOLTS	SINGLE P THICK "T" (IN)	FILLET WELD SIZE "X" (IN)
W8, C8	2	3/8	5/16
W10, C10	2	3/8	5/16
W12, C12	3	3/8	5/16
W14, C15	3	3/8	5/16
W16	4	3/8	5/16
W18	5	3/8	5/16

ELEVATION

EMBEDDED BEAM CONNECT NOT TO SCALE



SINGLE PLATE BEAM CONNECT NOT TO SCALE

4302

- UNLESS OTHERWISE NOTED ON THE DRAWINGS, ALL GRATING IS GALVANIZED STEEL
- 2. GRATING DEPTH "T" AS NOTED ON DRAWINGS.
- 3. ALL EDGES AND OPENINGS ARE TO BE BANDED.
- 4. WEIGHT OF INDIVIDUAL GRATING SECTION SHALL NOT EXCEED 80
- 5. METAL BEARING BARS ARE TO BE DEPTH "T"x¾6" @ 1¾6" OC. CROSS BARS ARE TO BE AT 4" OC.
- 18" MAX

 6. PROVIDE A MINIMUM OR 4 CLIPS PER GRATING PANEL AND LOCATE APPROXIMATELY 4" FROM PANEL CORNERS. MAXIMUM SPACING OF CLIPS IS 3'-0".

- SUPPORTS, BOLTS, AND CLIPS. HOT-DIP GALVANIZE AFTER FABRICATION.
- STAINLESS STEEL GRATING USE 316 STAINLESS STEEL ANGLE SUPPORTS, BOLTS, AND CLIPS.

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PROJECT

SCALE INCH ON DRAWING

VERIFY BAR IS ONE

STRUCTURAL TAILS 2

ENERAL

5 DRAWING NO. _GS-03 SHEET 25 OF 46

MAX -BANDING BAR BANDING BAR -- GRATING GRATING -%"ø SST CONCRETE ¬ ANCHOR @ 24" MAX L3x2x1/4 (LLV):0R-T.3. ALUMINUM GRATING — USE ALUMINUM ANGLE SUPPORTS
DRAWINGS

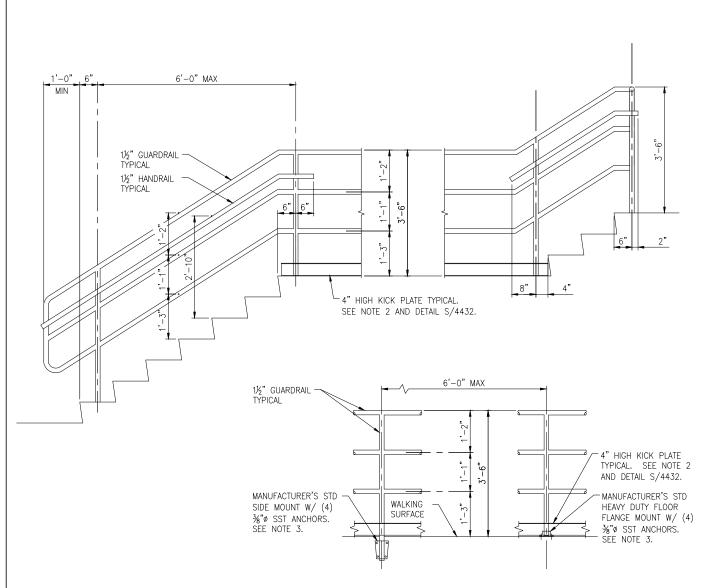
T.1. ALUMINUM GRATING — USE ALUMINUM ANGLE SUPPORTS
AND STAINLESS STEEL BOLTS AND CLIPS.
T.2. GALVANIZED STEEL GRATING — USE GALVANIZED STEEL - DIMENSIONS SHOWN ON PLANS ARE TO FACE OF CONCRETE AS INDICATED ON :: DRAWINGS

GRATING EDGE

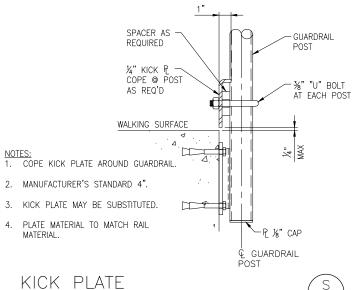
SCHEDULE APPLIES TO ALL BEAMS UNLESS NUMBER OF BOLTS PER LEG IS OTHERWISE INDICATED ON THE FRAMING PLANS BY (3) WHERE THE SYMBOL INDICATES THE NUMBER OF ROWS OF A325N BOLTS TO BE USED FOR THE SPECIAL CONNECTION.

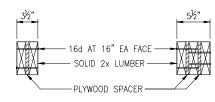
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- 1. PLACE CENTER OF FLOOR FLANGE MOUNTED POSTS 4" FROM EDGE OF CONCRETE OR 6" FROM STAIR NOSINGS UNLESS OTHERWISE NOTED ON DRAWINGS.
- 2. KICKPLATE MAY BE EXTRUDED SHAPE OR BENT PLATE AND SHALL BE ATTACHED WITH STAINLESS STEEL BOLTS. BOLT KICKPLATE TO POSTS WITH BOTTOM 1/2" CLEAR FROM WALKING SURFACE. FOR SIDE MOUNTED RAILS, PROVIDE STANDARD SPACER BLOCK BETWEEN POST AND KICKPLATE TO MAINTAIN 1/2" MAXIMUM CLEAR SPACING, PROVIDE KICKPLATE AT ALL PLACES WHERE DROP FROM ONE LEVEL TO ANOTHER EXCEEDS 2'-6" AND WHERE INDICATED ON THE DRAWINGS. HAND TIGHTEN AND CENTER PUNCH BOLT THREADS TO LOCK. KICKPLATE MAY BE OMITTED WHERE RAILING IS MOUNTED ON MINIMUM 4" HIGH STEEL OR CONCRETE CURB.
- 3. VARIOUS POST MOUNTINGS ARE SHOWN IN THIS DETAIL. SIDE MOUNTING IS PREFERRED WHEN PRACTICAL. REFER TO DRAWINGS FOR SPECIFIC MOUNTING REQUIREMENTS.
- 4. PLACE RAIL POSTS OPPOSITE EACH OTHER WHEN POSSIBLE AND WHERE GUARDRAILS ARE PARALLEL.
- 5. COAT ALL SURFACES OF ALUMINUM IN CONTACT WITH CONCRETE IN ACCORDANCE WITH SPECIFICATIONS. PLACE NEOPRENE GASKET BETWEEN ALUMINUM AND STEFL.
- 6. ALL GUARDRAILS ARE FIXED UNLESS OTHERWISE NOTED ON DRAWINGS.
- 7. ALL JOINTS IN STEEL RAIL SHALL BE COPED, WELDED, AND GROUND SMOOTH.
- 8. FOR RAIL POSTS MOUNTED TO BEAM OR STAIR CHANNEL, PROVIDE MANUFACTURER'S STANDARD REINFORCED CONNECTION FROM POST TO PLATE. BOTH THE PLATE AND REINFORCED INSERT TO BE GALVANIZED STEEL, ALUMINUM, OR STAINLESS STEEL TO MATCH RAIL MATERIAL.
- 9. SEE DRAWINGS AND SPECIFICATIONS FOR GUARDRAIL MATERIALS.





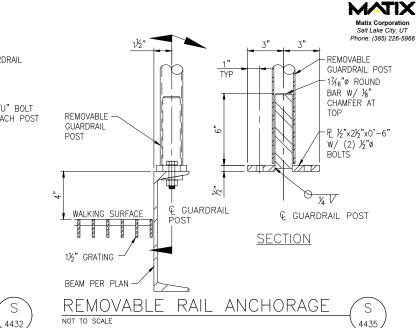
SOLID HEADER	BUILT-UP HEADER
4x4	(2) 2x6
4x6	(2) 2x8
4x8	(2) 2x10
4x10	(2) 2x12

SOLID BUILT-UP HEADER HEADER (3) 2x6 FLAT 4x6 (3) 2x8 6x6 6X8 (3) 2x10 (3) 2x12 6x10

1. BUILT-UP HEADER MAY BE USED AS AN ALTERNATIVE TO SOLID 4x AND 6x HEADERS UNLESS NOTED OTHERWISE ON

2. BUILT-UP HEADER ALTERNATIVE SHALL NOT BE USED IN LIEU





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CHRIS D. PATTEN

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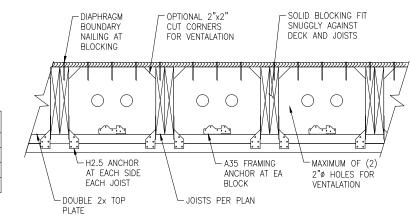
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DRAWING NO.

GS-04 SHEET 26 OF 46



1. MAY USE EITHER ROUND HOLES OR CUT CORNERS FOR VENTILATION BUT NOT



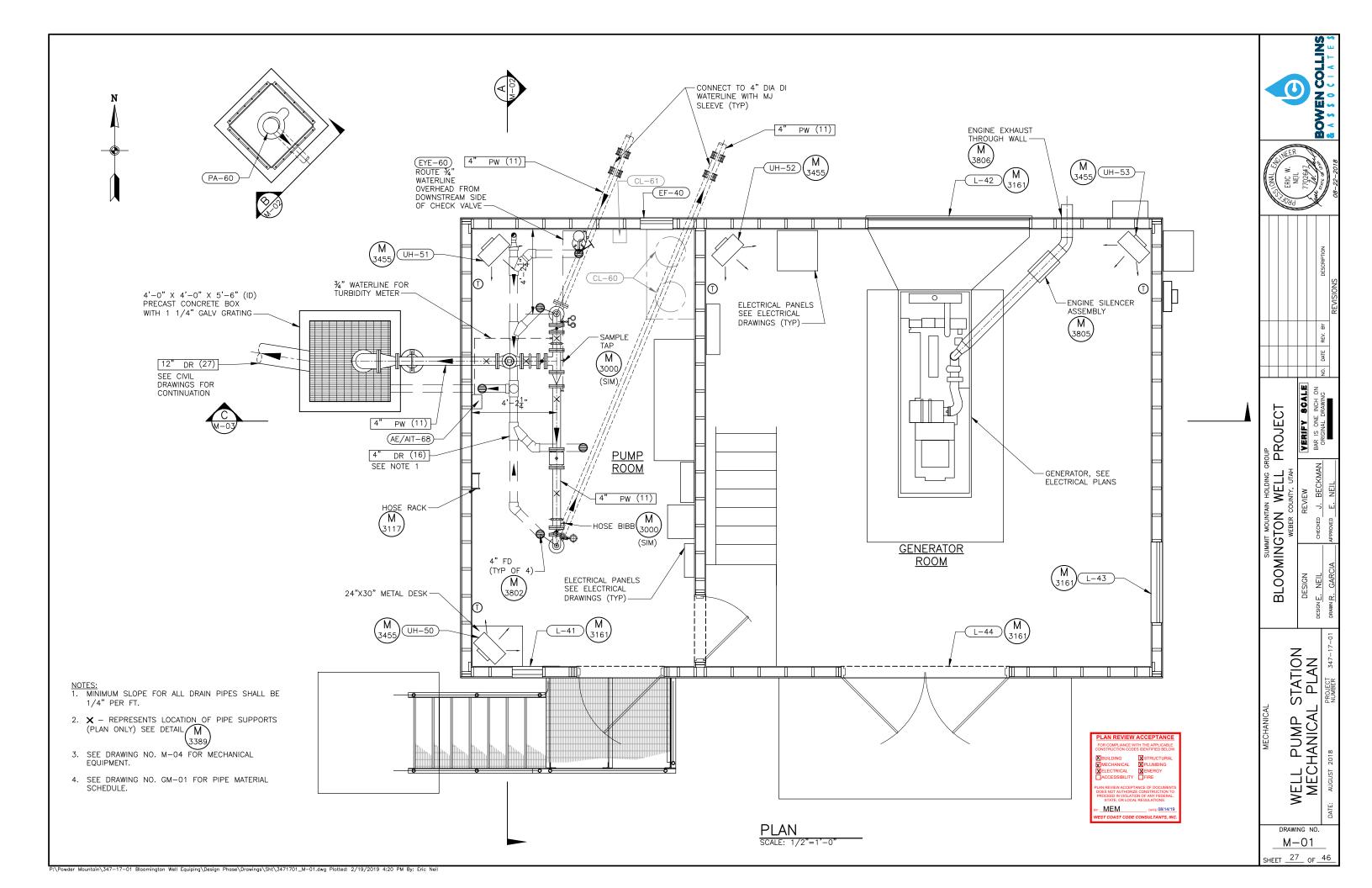
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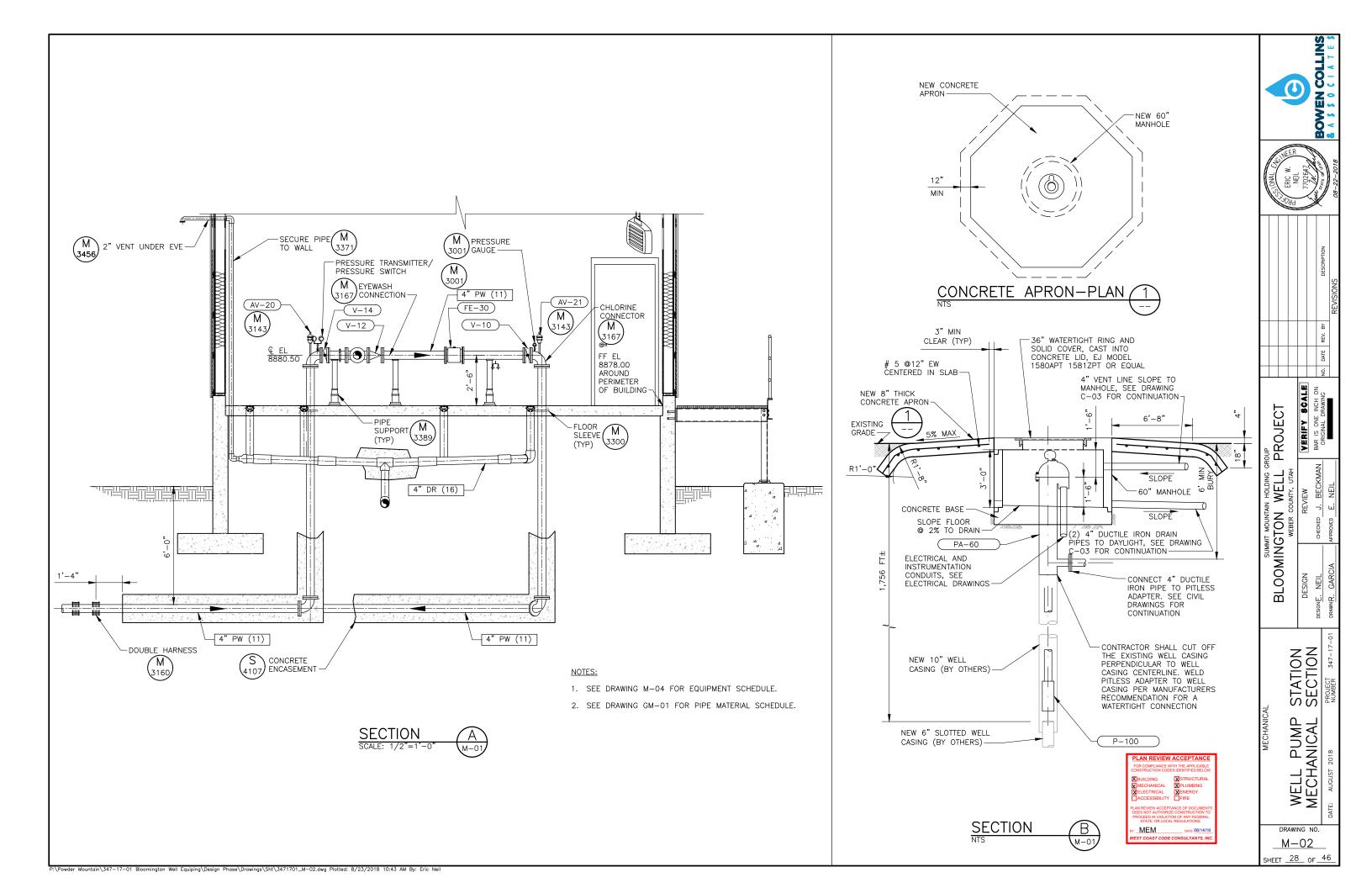


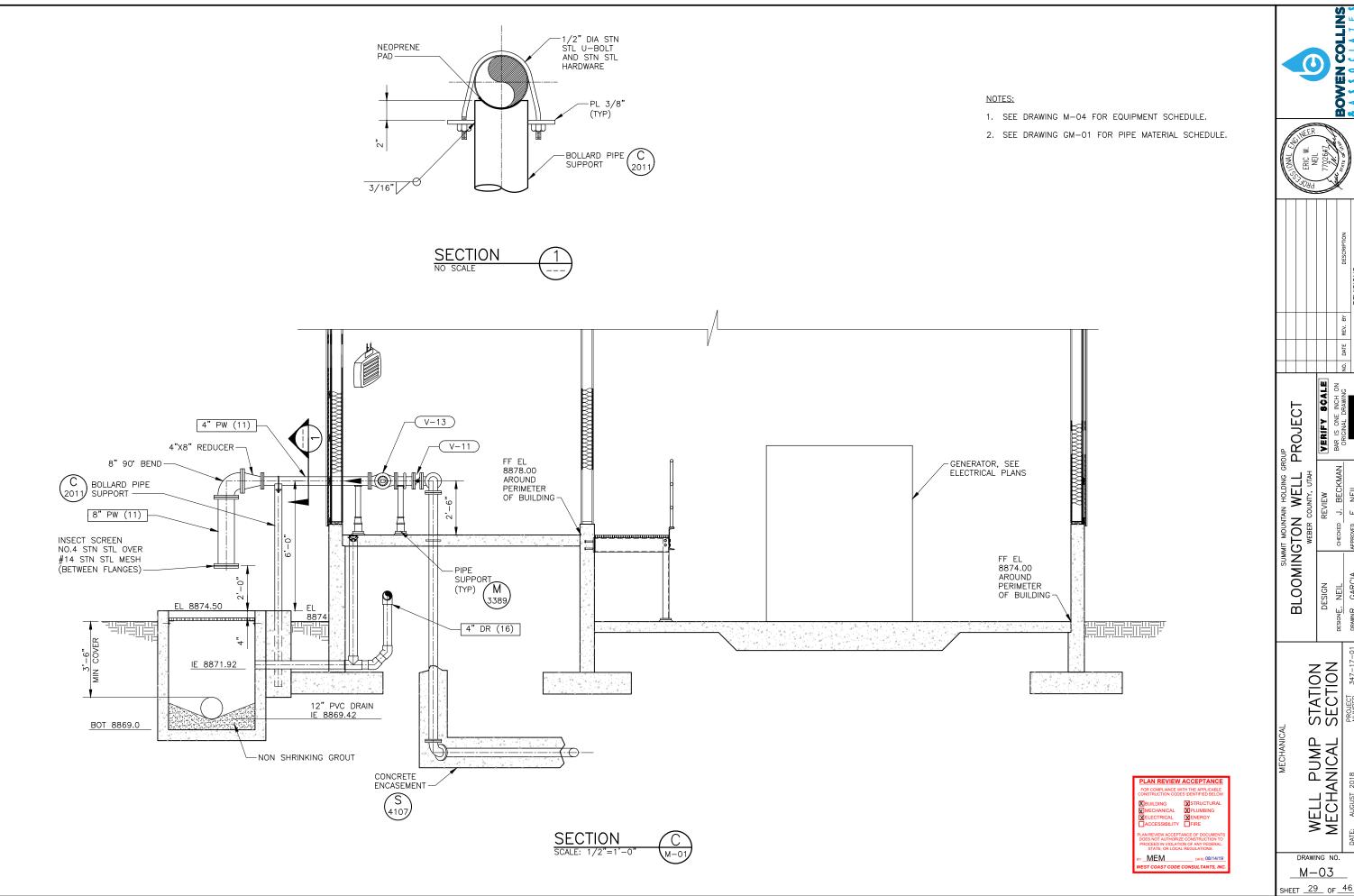


THREE-RAIL GUARDRAIL

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MECHANICAL EQUIPMENT SCHEDULES

				VALVE SCHEDULE
NO.	LOCATION	SIZE (INCH)	JOINT TYPE	REMARKS
V-10	PUMP ROOM	4	FL	BUTTERFLY VALVE WITH HAND OPERATOR
V-11	PUMP ROOM	4	FL	BUTTERFLY VALVE WITH HAND OPERATOR
V-12	PUMP ROOM	4	FL	SILENT GLOBE CHECK VALVE, CLA-VAL SERIES 581 OR EQUAL
V-13	PUMP ROOM	4	FL	DEEP WELL PUMP CONTROL VALVE, CLA-VAL MODEL 61-02KC OR EQUAL. PROVIDE WITH 2 LIMIT SWITCHES
V-14	PUMP ROOM	4	FL	BUTTERFLY VALVE WITH HAND OPERATOR
V-15	RESERVOIR INLET PIPE	6	FLXMJ	GATE VALVE WITH 2" OPERATING NUT
AV-20	PUMP ROOM	1	NPT	NSF 61 APPROVED, COMBINATION AIR RELEASE/AIR VACUUM VALVE, RATED FOR TEST PRESSURES, VAL—MATIC MODEL 201C.2 OR APPROVED EQUAL, TERMINATE EXHAUST/RELIEF PIPING AT LEAST 6" ABOVE FLOOR AND COVER WITH #14 SST MESH SCREEN
AV-21	PUMP ROOM	1		NSF 61 APPROVED, AIR RELEASE VALVE RATED FOR TEST PRESSURES, VAL-MATIC MODEL 22.3 OR APPROVED EQUAL, TERMINATE EXHAUST/RELIEF PIPING AT LEAST 6" ABOVE FLOOR AND COVER WITH #14 SST MESH SCREEN
AV-22	AIR RELEASE/VACUUM VALVE MANHOLE AT WELL HEAD	2	NPT	NSF 61 APPROVED, COMBINATION AIR RELEASE/AIR VACUUM VALVE, RATED FOR TEST PRESSURES, VAL-MATIC MODEL 202C.2 OR APPROVED EQUAL, SEE DRAWINGS C-03 & GC-03

				F	LOW METER SCHEDULE
NO.	LOCATION	SIZE (INCH)	TYPE	DESIGN FLOW (GPM)	REMARKS
FE-30	PUMP ROOM	4	ELECTROMAGNETIC		FLXFL, EPOXY COATED CARBON STEEL BODY, SIEMENS SITRANS FM MAG 5100 W WITH MAG 5000 INDICATOR (TRANSMITTER MOUNTED INTEGRALLY ON THE METER OR EQUAL)

			ΕX	(HAUST	FAN/L	OUVER	SCHEDULE
NO.	LOCATION	AIRFLOW (CFM)	DRIVE	HP	VOLTAGE	PHASE	REMARKS
EF-40	PUMP ROOM (EXHAUST)	350 (MIN)	DIRECT	0.022	120	SINGLE	DIRECT DRIVE PROPELLER WALL COLLAR EXHAUST FAN WITH MOTORIZING BACKDRAFT DAMPER KIT, ACME MODEL FN14WCP OR APPROVED EQUAL WITH MOTOR—SIDE GUARD, ACME MODEL BA14FQ OR APPROVED EQUAL
L-41	PUMP ROOM (INTAKE)	350 (MIN)			120	SINGLE	18"X18" ADJUSTABLE LOUVER WITH BIRD SCREEN, AMERICAN WARMING MODEL LE-65C OR EQUAL WITH ELECTRIC ACTUATOR, POWER OPEN/POWER CLOSE
L-42	GENERATOR ROOM (EXHAUST)	17,551 (MIN)			120	SINGLE	8'-0"X4'-6" ADJUSTABLE LOUVER WITH BIRD SCREEN, AMERICAN WARMING MODEL BD-20 OR EQUAL WITH GRAVITY DAMPER
L-43	GENERATOR ROOM (INTAKE)	9,229 (MIN)			120	SINGLE	4'-0"X8'-0" ADJUSTABLE LOUVER WITH BIRD SCREEN, AMERICAN WARMING MODEL LE-65C OR EQUAL WITH ELECTRIC ACTUATOR, SPRING OPEN/POWER CLOSE
L-44	GENERATOR ROOM (INTAKE)	9,229 (MIN)			120	SINGLE	8'-0"X4'-0" ADJUSTABLE LOUVER WITH BIRD SCREEN, AMERICAN WARMING MODEL LE-65C OR EQUAL WITH ELECTRIC ACTUATOR, SPRING OPEN/POWER CLOSE

				UNIT HEATE	R SCHEDUL	.E
NO.	LOCATION	TYPE	SIZE	VOLTAGE	PHASE	REMARKS
UH-50	PUMP ROOM	ELECTRICAL	5 KW	480	3	WALL MOUNTED, CHROMALOX MODEL LUH-05-43-32 WITH WALL MOUNTED THERMOSTAT
UH-51	PUMP ROOM	ELECTRICAL	5 KW	480	3	WALL MOUNTED, CHROMALOX MODEL LUH-05-43-32 WITH WALL MOUNTED THERMOSTAT
UH-52	GENERATOR ROOM	ELECTRICAL	7.5 KW	480	3	WALL MOUNTED, CHROMALOX MODEL LUH-07-43-32 WITH WALL MOUNTED THERMOSTAT
UH-53	GENERATOR ROOM	ELECTRICAL	7.5 KW	480	3	WALL MOUNTED, CHROMALOX MODEL LUH-07-43-32 WITH WALL MOUNTED THERMOSTAT

	GENERATOR ROOM	LLLOTRICAL	7.5 10	TOO S WILL MOONED, CHROMINED MODEL LOT OF 10 32 WITH MILE MOONED THE MOONED		
			MISCELL	ANEOUS MECHANICAL EQUIPMENT SCHEDULE		
NO. LOCATION DESC		DESCRIPTION	SIZE	REMARKS		
PA-60	WELL	PITLESS ADAPTER	10"	NSF 61 APPROVED, INSTALL PER MANUFACTURER RECOMMENDATIONS, BAKER MONITOR OR EQUAL		
EYE-60	PUMP ROOM	EYE WASH STATION		WALL MOUNTED EYEWASH/DRENCH HOSE, GUARDIAN MODEL G5026 OR EQUAL. PIPE DRAIN LINE TO FLOOR DRAIN. CONNECT WATERLINE ON DOWN STREAM SIDE OF CHECK VALVE		
CL-60 (FUTURE)	PUMP ROOM	FUTURE CHLORINE METER PUMP		FUTURE GRUNDFOS SMART DIGITAL DDE METER PUMP WITH PV/V/C (P=PVDF BODY, V=VITON GASKETS, C=CERAMIC CHECK BALL VALVES) MALFUNCTION VALVE (BACK PRESSURE, PRESSURE RELIEF AND ANTI SIPHONING), AND TUBING KIT (INCLUDING TUBING, FOOT VALVE, AND INJECTION QUILL) AS SUPPLIED BY MANUFACTURER. PROVIDE RIGID PVC SHELF FOR PUMP AND MOUNTING		
CL-61 (FUTURE)	PUMP ROOM	FUTURE HYPOCHLORITE & SPILL CONTROL PALLET		(2) 15 GALLON DRUMS, 16" DIAMETER (12% NSF-61 THATCHER CHEMICAL T-CHLOR) 2"X4" SPILL CONTROL PALLET (ENPAL SPILL PAL)		
PIT-61	PUMP ROOM	PRESSURE TRANSMITTER		SEE ELECTRICAL PLANS & SPECIFICATIONS		
PI-62	PUMP ROOM	PRESSURE INDICATOR		SEE ELECTRICAL PLANS & SPECIFICATIONS		
PSH-63	PUMP ROOM	PRESSURE SWITCH		SEE ELECTRICAL PLANS & SPECIFICATIONS		
RTU-60	PUMP ROOM	TELEMETRY		MISSION CONTROL TELEMETRY SCADA SYSTEM, PROVIDED AND INSTALLED BY DELCO WESTERN		
GEN-65	GENERATOR ROOM	GENERATOR	480V, 300KW	CATERPILLAR C-9 OR APPROVED EQUAL WITH INTEGRAL 24 HR (643 GALLON) DIESEL FUEL TANK		
AE/AIT-68	PUMP ROOM	TURBIDITY METER		ATI, MODEL Q46/76 OR APPROVED EQUAL. PROVIDE WITH CONTROLLER. DRAIN TO FLOOR DRAIN		

					SUBMERSIBLE PU	MP SCHEDULE
NO.	LOCATION	SIZE (IN)	HORSEPOWER	TDH (FT)	DESIGN FLOW (GPM)	REMARKS
P-100	WELL	9.25	150	1,777	200	SUBMERSIBLE WELL PUMP SUPPLIED BY DELCO WESTERN. PUMP SHALL BE MANUFACTURED BY FLOWSERVE/PLEUGER OR EQUAL. PUMP SHALL BE NB86—IP WITH 20 STAGES. PUMP SHALL BE SUPPLIED WITH A VARIABLE FREQUENCY DRIVE, SINE WAVE FILTER, AND DOWN HOLE LEVEL TRANSDUCER

NOTES:

- 1. REFER TO DRAWINGS AND SPECIFICATIONS FOR MORE EQUIPMENT INFORMATION.
- CHLORINE EQUIPMENT CL-60 AND CL-61 SHALL BE PROVIDED BY OTHERS AT A FUTURE TIME.

PLAN REVIEW ACCEPTANCE
FOR COMPLICE WITH THE PRICE AND THE PRICE CONSTRUCTION CODES IDENTIFIED BELOW.

BUILDING
MECHANICAL MELLORISM METHOD TO THE PRICE OF THE P

SUMMIT MOUNTAIN HOLDING GROUP BLOOMINGTON WELL PROJECT WEBER COUNTY, UTAH

MECHANICAL EQUIPMENT

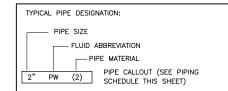
SCHEDULE

SHEET 30 OF 46

										_
										_
									GROUP NO.	
NO				G MATERIAL EDULE AT RIGHT)		FIELD TE		MENTS (SEE NOTE 3	1	S S S S W S S S S D A J (S C W
FLUID ABBREVIATION	FUNCTION (SEE NOTE 5)		ED PIPING NOTE 14)		PIPING OTE 13)	MIN TEST PRESSURE	TEST	LEAKAGE ALLOWANCE	2	s
AB.		2" DIA & SMALLER	2 1/2 " DIA & LARGER	2" DIA & SMALLER	2 1/2 " DIA & LARGER	PSI	MEDIUM	(SEE NOTE 2)	3	S
AV	AIR VENT	2, 14, 16	2, 14	2, 14, 16	2, 16, 24	NOTE 7			<u> </u>	Ļ
CLS	CHLORINE SOLUTION								5	-
CV	CHLORINE VENT								1	s
DR	DRAIN	16	16	2	8, 12, 16, 22, 28, 36, 27, 51 52, 53, 54, 55	NOTE 6	WATER	2,16,8,27,51,52,53(A), 12,28(B), 22,54,55(C)	- 6 - 7	S
HWS	DOMESTIC HOT WATER SUPPLY									
LSP	LANDSCAPING SPRINKLING SYSTEM	12, 16	12, 16	12, 16	12, 16	NOTE 7	-		- 8	١,
OF	OVERFLOW	16	8	16	8	150	WATER	(A)	9	S
PW	POTABLE WATER	12, 24	2, 11	4, 24	2,11,19,36,51,52	150	WATER	2, 11, 24(A), 19(B)	1	H
RL	REFRIGERANT LIQUID	,	,	,				. , ,,, ,,	10	s
RS	REFRIGERANT SUCTION									
RW	RAW WATER	2	8, 11	2	8, 11, 28	125	WATER	2, 8, 11(A), 28(B)	1	D A J (*)
SA	SAMPLE LINE	2, 16, 18, 24		16, 18, 24		125	WATER	(A)	11	J
SD	SANITARY DRAIN	4, 12, 16	2, 16	12, 16, 27	12, 16, 21, 27	NOTE 7			1	SF
SDR	STORM DRAIN		8		16, 22, 28	NOTE 6	WATER	8, 16(A), 28(B), 22(C)		C
SS	SANITARY SEWER								12	0
SV	SANITARY VENT									(¢
TOF	TANK OVERFLOW								13	IF
TW	TREATED WATER (POTABLE)	16, 24	2, 8, 16	24	2,8,11,16,51,52	150	WATER	(A)	14	s
UW	UTILITY WATER (NON-POTABLE WATER)	2, 16, 24	2, 11, 16, 32	2, 16, 24	2, 8, 15, 16, 18	125	WATER	2, 11, 24(A), 19(B)	1	A
			•						15	S

GENERAL NOTES:

ALTHOUGH SEVERAL PIPING MATERIALS ARE SHOWN THAT MAY BE USED FOR A GIVEN FUNCTION, ONLY THE CALLED OUT PIPING MATERIAL SHOWN ON THE CONSTRUCTION DRAWINGS AND SPECIFICATION SHALL BE USED. THE CONTRACTOR DOES NOT HAVE THE OPTION TO USE A DIFFERENT MATERIAL.



FOR COMPLIANCE WITH THE APPLICABLE ONSTRUCTION CODES IDENTIFIED BELO. [SHULDING MICHAEL STREET CODES IDENTIFIED BELO. [MECHANICAL MICHAEL STREET CODES IDENTIFIED BELO. [MECHANICAL MICHAEL STREET CODES IDENTIFIED BELO

DRAWING NOTES:

- PROPRIETARY NAMES HAVE BEEN QUOTED FOR IDENTIFICATION PURPOSES ONLY. SUBSTITUTIONS WILL BE PERMITTED SUBJECT TO REQUIREMENTS OF THE SPECIFICATIONS.
- 2. LEAKAGE ALLOWANCE IS AS FOLLOWS:
 - (A) PIPES SO DESIGNATED SHALL SHOW ZERO LEAKAGE.
 - (B) PIPES SO DESIGNATED SHALL SHOW ZERO LEAKAGE FOR UNBURIED PIPE AND NOT MORE THAN 0.002 GALLON PER HOUR PER INCH DIAMETER PER 100 FEET OF BURIED PIPE.
 - (C) PIPES SO DESIGNATED SHALL NOT SHOW A LEAKAGE OF MORE THAN 0.15 GALLON PER HOUR PER INCH OF DIAMETER PER 100 FEET OF PIPE.
 - (D) PIPES SO DESIGNATED SHALL NOT SHOW A LOSS OF PRESSURE OF MORE THAN 5 PERCENT.
 - (E) PIPES SO DESIGNATED SHALL NOT SHOW A LOSS OF VACUUM OR MORE THAN 4 INCHES MERCURY COLUMN.
- 3. FOR FIELD TEST PROCEDURES AND ADDITIONAL TEST REQUIREMENTS, SEE PIPING SECTION OF SPECIFICATIONS.
- ANY DEVIATION FROM THE PIPING MATERIALS OR FIELD TEST REQUIREMENTS SHOWN WILL BE NOTED IN THE SPECIFICATIONS OR ON THE DRAWINGS.
- 5. PIPING GROUP NUMBER SHOWN THUS * SHALL BE INSULATED, SEE PIPING SECTION OF SPECIFICATIONS FOR INSULATING MATERIALS.
- 6. STATIC WATER TEST WITH SURFACE 5 FEET ABOVE HIGH POINT OF PIPE.
- 7. INSPECTION AND TESTING SHALL BE IN ACCORDANCE WITH APPLICABLE PLUMBING CODE.
- 8. NO APPARENT LEAKS UNDER NORMAL OPERATING CONDITIONS.
- INSPECTION AND TESTING SHALL BE IN ACCORDANCE WITH APPLICABLE NATIONAL FIRE PROTECTION ASSOCIATION STANDARDS.
- 10. PIPING MATERIALS SHALL BE IN ACCORDANCE WITH NATIONAL FIRE PROTECTION ASSOCIATION STANDARDS.
- 11. FOR VALVES 4 INCHES AND LARGER SEE VALVE SCHEDULE. FOR SPECIAL VALVES SEE SPECIFICATIONS.
- 12. CHANGE IN PIPING MATERIAL GROUP NUMBER IS INDICATED, THUS:
- 13. FOR PIPE LINING AND COATING, SEE SPECIFICATIONS.
- 14. EXPOSED PIPING SHALL BE PAINTED IN ACCORDANCE WITH SPECIFICATIONS. COLORS TO BE SELECTED BY ENGINEER.
- 15. PIPING MATERIAL SHALL BE NON-ABRASIVE FLEXIBLE RUBBER HOSE AND QUICK CONNECTION COUPLINGS WITH GROUP NO. 1 AT EQUIPMENT.
- 16. VALVES 2-1/2 INCH AND SMALLER MAY HAVE SCREWED ENDS VALVES 3 INCH AND LARGER SHALL HAVE FLANGED ENDS. UNLESS OTHERWISE SHOWN OR SPECIFIED.

GROUP NO.		PIPE	FITTINGS	VALVES		
	1	STEEL, ASTM 53 SCHEDULE 40, BLACK WELDED	2-1/2 INCH AND SMALLER, MALLEABLE IRON, ANSI B16.3. THREADED, BANDED, BLACK, 150 PSI OR STEEL, ANSI B16.9 BUTT-WELDED. 3-INCH AND LARGER, CAST IRON, ANSI B16.1, 125 PSI FLANGED OR MECHANICAL COUPLINGS.	BRONZE, THREADED, GATE STOCKHAM B-105. GLOBE, STOCKHAM B-37, CHECK, STOCKHAM B-319, STEEL LUBRICATED PLUG, NORDSTROM, FIG. 142 OR 143, ECCENTRIC PLUG, DEZURIK SERIES 118 BALL, JAMESBURY FIG. 351.		
	2	STEEL, ASTM 53 SCHEDULE 40 WELDED, GALVANIZED	2-1/2 INCH AND SMALLER, MALLEABLE IRON, ANSI B16.3, THREADED, BANDED, CALVANIZED 150 PSI, 3 INCH AND LARGER, CAST IRON ANSI B16.1, 125 PSI FLANGED OR MECHANICAL COUPLINGS.	2-1/2 INCH AND SMALLER, ECCENTRIC PLUG, SYNTHETIC RUBBEI FACED, DEZURIK 118S BALL, JAMESBURY FIG. 351 3 INCH AND LARGER, ECCENTRIC PLUG, SYNTHETIC RUBBER FACED, DEZURIK 118F GATE, AWWA C500, BUTTERFLY, AWWA, FLANGED.		
	3	STEEL, ASTM A106 OR A53, SCHEDULE 80, SEAMLESS, BLACK.	FORGED STEEL, ANSI B16.11, SOCKET WELDED OR THREADED, BLACK, 2000 PSI, OR STEEL, ANSI B16.9, BUTT—WELDED, SCHEDULE 80.	CAST IRON, LUBRICATED PLUG, NORDSTROM FIG. 214 OR 305.		
-	4	SAME AS GROUP NO. 1	CAST IRON, ANSI B16.12, THREADED, DRAINAGE PATTERN.	AC INDICATED ON DRIVING		
╁	5	WELDED STEEL, AWWA C200, UNLINED. STEEL, ASTM A106, OR A53,	WELDED STEEL, FABRICATED, AWWA C200, UNLINED. STEEL, ANSI B16.9, BUTT-WELDED, CAST IRON, ANSI B16.1, 125	AS INDICATED ON DRAWINGS.		
3,	6	SCHEDULE 40, SEAMLESS, BLACK.	PSI, FLANGED, FORGED STEEL, SOCKET WELDED, ANSI B16.11, 2000 PSI OR STEEL, ANSI B16.5, 150 PSI FLANGED.	CAST IRON, FLANGED, LUBRICATED PLUG, NORDSTROM FIG. 143 OR 133GG.		
	7	SAME AS GROUP NO. 2. WELDED STEEL, AWWA C200.	MALLEABLE IRON, ANSI B16.3, THREADED, BANDED, GALVANIZED, 300 PSI. WELDED, STEEL, AWWA C200, FABRICATED.	BRONZE THREADED, GLOBE, STOCKHAM B-62 OR B-32, BALL, JAMESBURY FIG. 351 CHECK, STOCKHAM B-322T. AS INDICATED ON DRAWINGS.		
	9	SAME AS GROUP 1	2-1/2 INCH AND SMALLER, MALLEABLE IRON, ANSI B16.3, THREADED, BANDED, BLACK, 150 PSI, 3-INCH AND LARGER, STEEL. ANSI B16.9, BUTT-WELDED.	ECCENTRIC PLUG, DEZURIK SERIES 118 CHECK, CRANE NO. 366E, BALL, JAMESBURY FIG. 351.		
	10	SAME AS GROUP NO. 3.	1-1/4 INCH AND SMALLER, FORGED STEEL, ANSI B16.11, THREADED OR SOCKET WELDED, BLACK, 3000 PSI, WITH FLANGED AMMONIA UNIONS. 1-1/2 INCH AND LARGER, STEEL, ANSI B16.9, BUTT-WELDED OR FLANGED, SCHEDULE 80.	SEMI-PLUG AND YOKE TYPE OR BALL FOR CHLORINE SERVICE, FORGED CARBON STEEL.		
	11	DUCTILE IRON, ANSI A21.51, (AWWA C151) OR CAST IRON ANSI A21.6, CLASS 52, BELL AND SPIGOT, MECHANICAL JOINTS, MECHANICAL COUPLINGS, OR CLASS 52 FLANGED (TYPICAL SERVICE – WATER LINES) (PREINSULATED) PER SPECIFICATION SECTION 02565	DUCTILE IRON OR CAST IRON, ANSI A21.10 OR AWWA C110, BELL AND SPIGOT, MECHANICAL COUPLINGS, FLANGED OR MECHANICAL JOINTS, 350 PSI (PRESSURE RATING) 12-INCHES AND SMALLER, 350 PSI (PRESSURE RATING) 14-INCHES AND LARGER, WITH 125 PSI ANSI B16.1 FLANGES.	GATE, AWWA C500, 'O' RING SEALS, MECHANICAL JOINT ENDS, MUELLER A-2380-20 BUTTERFLY, AWWA, ECCENTRIC PLUG, DEZURIK SERIES 118 BALL, PRATT.		
(2)	12	CAST IRON SOIL, ANSI/ASTM A-74, SERVICE WEIGHT, BELL AND SPIGOT OR HUBLESS, AT THE OPTION OF THE CONTRACTOR, DUCTILE IRON (GROUP NO. 11) MAY BE SUBSTITUTED.	CAST IRON SOIL, ANSI/ASTM A-74, SERVICE WEIGHT, BELL AND SPIGOT OR HUBLESS. AT THE OPTION OF THE CONTRACTOR, DUCTILE IRON (GROUP NO. 11) MAY BE SUBSTITUTED.	AS INDICATED ON DRAWINGS.		
+	13	CORROSION RESISTANT (HIGH SILICON CONTENT) CAST IRON, SERVICE WEIGHT, BELL AND SPIGOT OR HUBLESS.	CORROSION RESISTANT (HIGH SILICON CONTENT) CAST IRON, SERVICE WEIGHT, BELL AND SPIGOT OR HUBLESS.			
t	14	STAINLESS STEEL, TYPE 316, ASTM A312, SCHEDULE 40S.	STAINLESS STEEL, TYPE 316 ANSI B16.3, SCREWED, 150 PSI, ANSI B16.9, BUTT-WELDED, SCHEDULE 40S, OR 150 PSI FLANGED.	STAINLESS STEEL, BALL, FLANGED, JAMESBURY TYPE A/D150F. CHECK, LADISH, NO. 5272 OR AS SHOWN ON DRAWINGS.		
-	15	STAINLESS STEEL, TYPE 316, ASTM A312, SCHEDULE 10S.	STAINLESS STEEL, TYPE 316 ANSI B16.9, BUTT-WELDED SCHEDULE 10S OR 150 PSI FLANGED.	STAINLESS STEEL, AS INDICATED ON DRAWINGS.		
F	16	POLYVINYL, CHLORIDE, SCHEDULE 80, NORMAL IMPACT, ASTM D1785.	POLYVINYL CHLORIDE, SCHEDULE 80, NORMAL IMPACT, SOCKET SOLVENT WELD JOINTS, ASTM D2467.	POLYVINYL CHLORIDE, BALL, DIAPHRAGM, BUTTERFLY, BALL OR LIFT CHECK. NIBCO/CHEMTROL OR HILLS-MCCANNA.		
	17	POLYPROPYLENE, ASTM D4101, SCHEDULE 40, WITH HEAT FUSED JOINTS.	POLYPROPYLENE, SCHEDULE 40, DRAINAGE TYPE WITH HEAT FUSED SOCKET JOINTS.			
	18	FIBERGLASS REINFORCED PLASTIC, ASTM D2996, FILAMENT WOUND, SOCKET AND SPIGOT ENDS, ADHESIVE BONDED.	FIBERGLASS REINFORCED PLASTIC, FILAMENT—WOUND, SOCKET ENDS, ADHESIVE BONDED, OR FIBERGLASS FLANGED.	PLASTIC LINED, FLANGED, FLANGES TO MATCH 150 PSI ANSI B16.5 DIMENSIONS, OR AS INDICATED ON DRAWINGS.		
	19	POLYVINYL CHLORIDE PRESSURE PIPE ASTM D2241 WITH BELL AND SPIGOT JOINTS.	CAST IRON, 150 PSI, FOR POLYVINYL CHLORIDE PIPE, AWWA C110 CEMENT MORTAR LINED, AWWA C104.	SAME AS GROUP NO. 11.		
	20	VITRIFIED CLAY, PERFORATED, ASTM C 700, EXTRA STRENGTH, FLEXIBLE COMPRESSION JOINTS FOR BELL AND SPIGOT PIPE OR PLAIN END WITH MECHANICAL COMPRESSION JOINTS.	VITRIFIED CLAY, ASTM C700, FLEXIBLE JOINTS FOR BELL AND SPIGOT PIPE OR PLAIN END WITH MECHANICAL COMPRESSION JOINTS.			
	21	VITRIFIED CLAY, ASTM C700, EXTRA STRENGTH, FLEXIBLE COMPRESSION JOINTS FOR BELL AND SPIGOT PIPE OR PLAIN END WITH MECHANICAL COMPRESSION JOINTS.	VITRIFIED CLAY, ASTM C700, FLEXIBLE JOINTS FOR BELL AND SPIGOT PIPE OR PLAIN END WITH MECHANICAL COMPRESSION JOINTS.			
	22	REINFORCED CONCRETE, ASTM C76 TONGUE AND GROOVE JOINTS, (TYPICAL SERVICE – CULVERTS)	SAME AS GROUP NO. 8			
	23	TEMPERED GLASS, (ARMORED, WHERE BURIED). ANSI/ASTM C599.	TEMPERED GLASS DRAINAGE TYPE WITH COMPRESSION COUPLINGS AND TEFLON JOINTS, ANSI/ASTM C599 (ARMORED WHERE BURIED).			
	24	COPPER, ASTM B88, TYPE K, SOFT TEMPERED WHERE BURIED, HARD TEMPERED WHERE EXPOSED.	WROUGHT COPPER OR CAST BRONZE, ANSI B16.22, SOLDER JOINT, 150 PSI, OR COMPRESSION FITTINGS, (FOR OXYGEN PIPING USE SILVER SOLDER, FOR COMPRESSED AIR PIPING USE 95-5 TIN-ANTIMONY SOLDER).	BRONZE, SOLDER JOINT, GLOBE, CRANE NO. 1310 OR STOCKHAM B-14T. CHECK, CRANE NO. 1342 OR 36, OR STOCKHAM B-309 OR B-345. GATE, CRANE NO. 426, OR STOCKHAM B-104 OR B-105.		
Г	25	STEEL, ASTM A106 OR A53, SCHEDULE 40, SEAMLESS, BLACK, SARAN OR POLYPROPYLENE-LINED.	STEEL, ANSI B16.5, 150 PSI FLANGED, SARAN OR POLYPROPYLENE—LINED.	CAST STEEL PLUG, DIAPHRAGM OR CHECK, 150 PSI FLANGED, SARAN OR POLYPROPYLENE—LINED.		
F	26	SAME AS GROUP NO. 11 (TYPICAL	SAME AS GROUP NO. 11.	SEE		
L	27	SERVICE - SLUDGE AND SEWAGE LINES). POLYVINYL CHLORIDE GRAVITY SEWER PIPE,	POLYVINYL CHLORIDE, ANSI/ASTM D3034 &	SPECIFICATIONS.		
L		SDR 35 ASTM D3034, BELL AND SPIGOT. REINFORCED CONCRETE, AWWA C302, CLASS— SEE	F679, BELL AND/OR SPIGÓT.			
L	28	DRAWINGS. (TYPICAL SERVICE – PRESSURE PIPELINES).	SAME AS GROUP NO. 8.	AS INDICATED ON DRAWINGS.		
	29	SAME AS GROUP NO. 1.	2-INCH AND SMALLER, MALLEABLE IRON, ANSI B16.3, THREADED, BANDED, BLACK, 150 PSI, 2-1/2 INCH AND LARGER, STEEL ANSI B16.9, BUTT-WELDED.	SAME AS GROUP NO. 1, EXCEPT LUBRICATED PLUG SHALL BE ROCKWELL FIG. 114 OR 115, OR POWELL FIG. 2202 OR 2203.		
L	30	SAME AS GROUP NO. 11, GLASS-LINED OR STEEL ASTM A120, SCHEDULE 40, GLASS-LINED.	SAME AS GROUP NO. 11, GLASS-LINED OR STEEL, ANSI B16.9, SCHEDULE 40, GROOVED WITH MECHANICAL COUPLINGS, GLASS-LINED.	SAME AS GROUP NO. 26.		
	31	2-1/2 INCH AND SMALLER, STEEL, ASTM A106 OR A53, SCHEDULE 80, SEAMLESS, BLACK. 3-INCH AND LARGER DUCTILE IRON, ANSI A21.51 (AWWA C151) OR CAST IRON ANSI A21.56 OR A21.8 MECHANICAL COUPLINGS OR 125 PSI FLANGED.	2-1/2 INCH AND SMALLER, FORCED STEEL, ANSI B16.11, SOCKET-WELDED OR THREADED, BLACK, 2000 PSI, OR STEEL, ANSI B16.9, BUTT-WELDED SCHEDULE 80. 3-INCH AND LARGER, DUCTILE IRON OR CAST IRON, ANSI A21.10 OR AWWA C110, MECHANICAL COUPLING OR 125 PSI FLANGED.	CAST IRON, LUBRICATED PLUG, ROCKWELL FIG. 142 OR 143, OR POWELL FIG. 2200 OR 2201.		
\vdash	32 33	PVC TYPE 1, GRADE 1, 18 ASTM D-1784 AWWA C-905. CORRUGATED HDPE SLOTTED, SPLIT COUPLING JOINTS.	SHORT BODY CAST IRON OR DUCTILE IRON AWWA C110. FABRICATED OR MOLDED.	SAME AS GROUP 11.		
H	34	FIBERGLASS DOUBLE CONTAINMENT	FIBERGLASS.	AS PER MANUFACTURER'S RECOMMENDATIONS.		
L	35	(FOR USE WITH FLAMMABLE LIQUIDS) SEE SPECS. CPVC	CPVC	CPVC		
F	36	HIGH DENSITY POLYETHYLENE, DR-11, DR-17	4 INCH AND LARGER HIGH DENSITY POLYETHYLENE, DR-11,	SAME AS GROUP NO. 11		
-	51	PVC AWWA C905	DR-17 DUCTILE IRON AWWA C110	SAME AS GROUP NO. 11		
L	52	PVC AWWA C900	DUCTILE IRON AWWA C110	SAME AS GROUP NO. 11		
	53	NOT USED	NOT USED			
Γ	54	DOUBLE — WALL CORRUGATED HDPE, ADS N-12, SOLID WALL	FABRICATED OR MOLDED			
	55	DOUBLE - WALL CORRUGATED HDPE, ADS	FABRICATED OR MOLDED			

PIPE MATERIAL SCHEDULE (SEE NOTE 4)



BLOOMINGTON

RIAL

PIPE MATER SCHEDULE

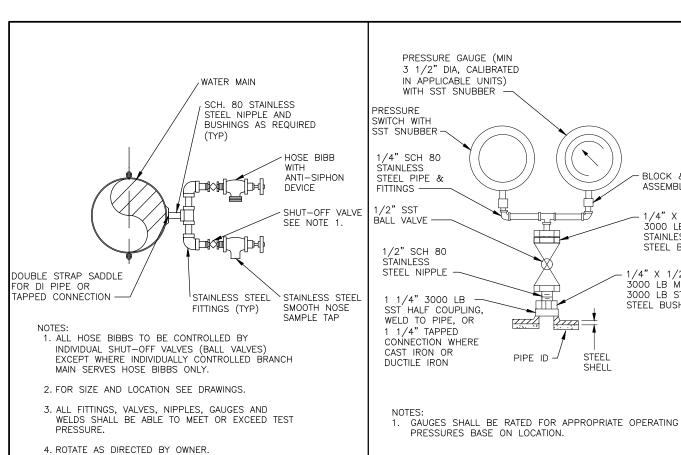
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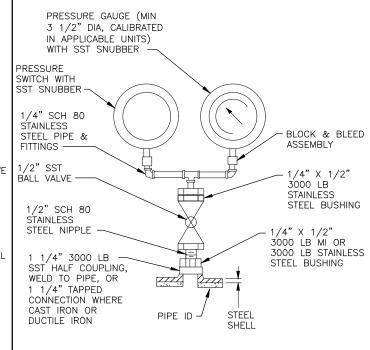
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SHEET 31 OF 46

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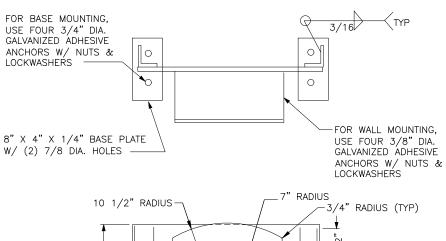




PRESSURES BASE ON LOCATION.

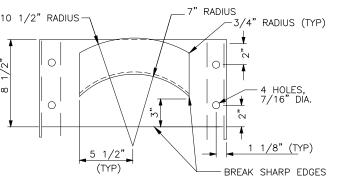
PRESSURE GAUGE AND PRESSURE SWITCH,

3001



WHERE HOSE RACK IS FREE-STANDING, PROVIDE (2) STL. 2 X 2 X 1/4" BASE PLATES. (OMIT BASE PLATES WHERE ANGLES CAN BE SET IN CONCRETE.)

2. CONSTRUCTION: B GA. STEEL SHEET, ALL WELDED, GALVANIZED AFTER FABRICATION.



SCALE PROJECT

VERIFY

DESIGN

MECHANICAL AILS-1

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DRAWING NO.

GM - 02

SHEET 32 OF 46

WELL

HOSE RACK

HOSE BIBB/SAMPLE TAP

COMBINATION AIR

VACUUM AND AIR

600 LB STEEL

WITH SCREWED

MAIN (LINING

AND COATING

SPECIFIED)

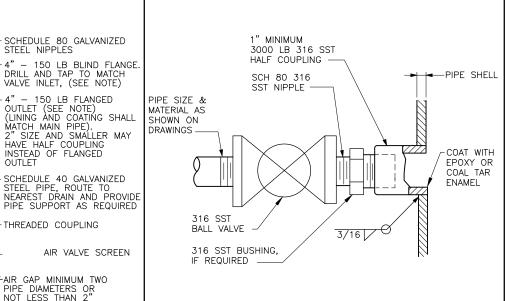
BALL VALVE

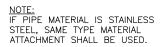
ENDS (SEE

RELEASE VALVE

(SEE NOTE)

AS SPECIFIED







3167



NOMINAL PIPE DIA 'A'

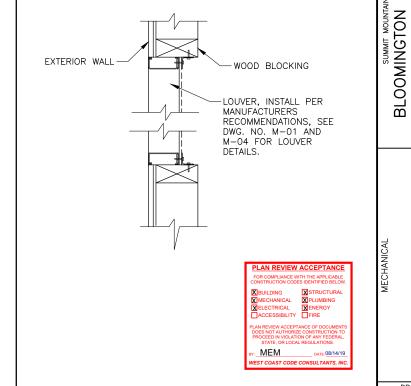
FOUNDATION WALL OR STRUCTURE WALL

DIMENSIONS IN INCHES (MM)

6 (150) 16 (400) 48 (1200)

'B'

16 (400) 48 (1200)



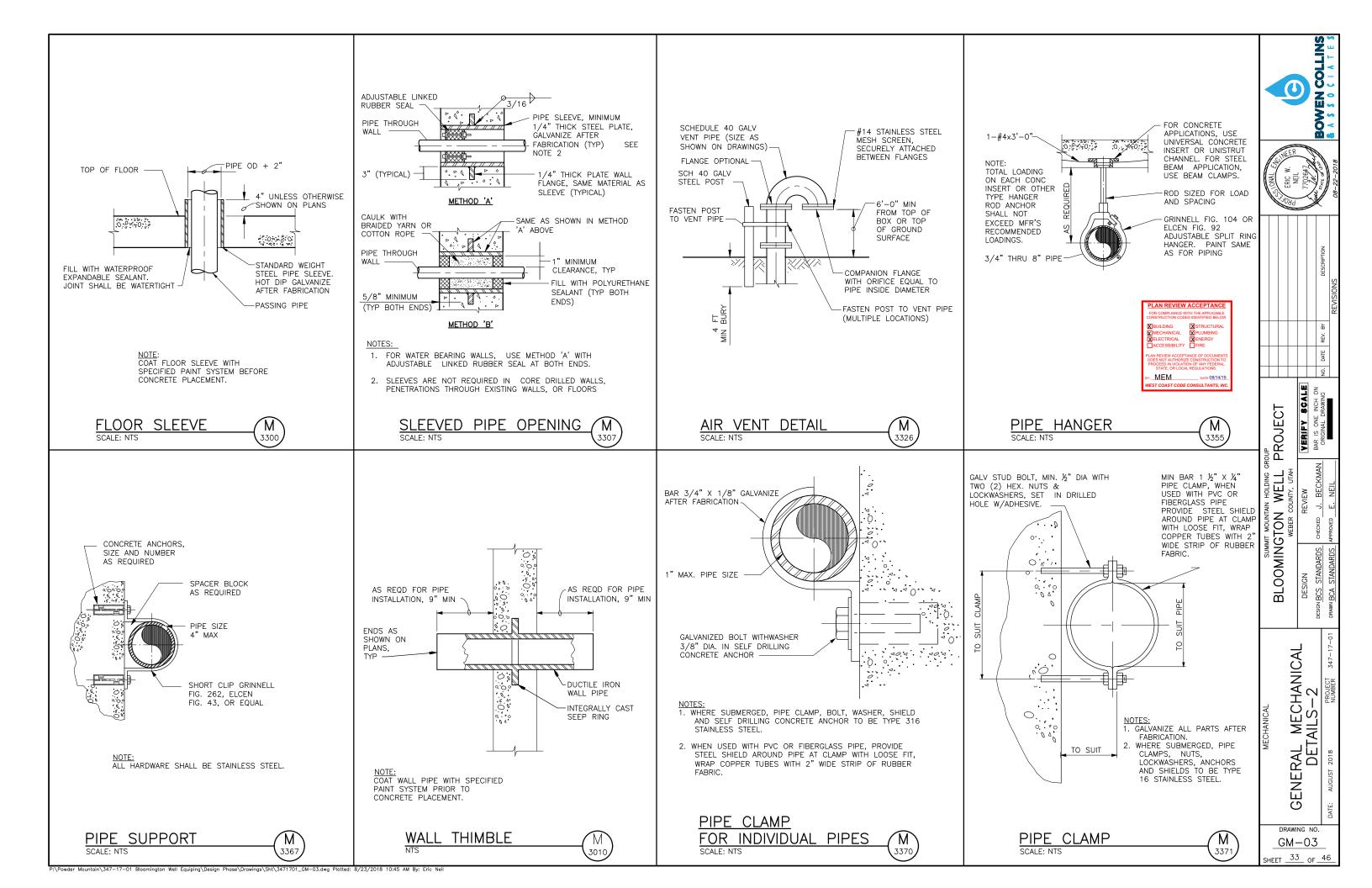
FOR PIPING SYSTEM WITH SERVICE PRESSURE CLASS GREATER THAN 150 PSI. ALL COMPONENTS FURNISHED SHALL BE SUITABLE FOR THE HIGHER PRESSURE AIR VACUUM AND AIR RELEASE VALVE ASSEMBLY SCALE: NTS

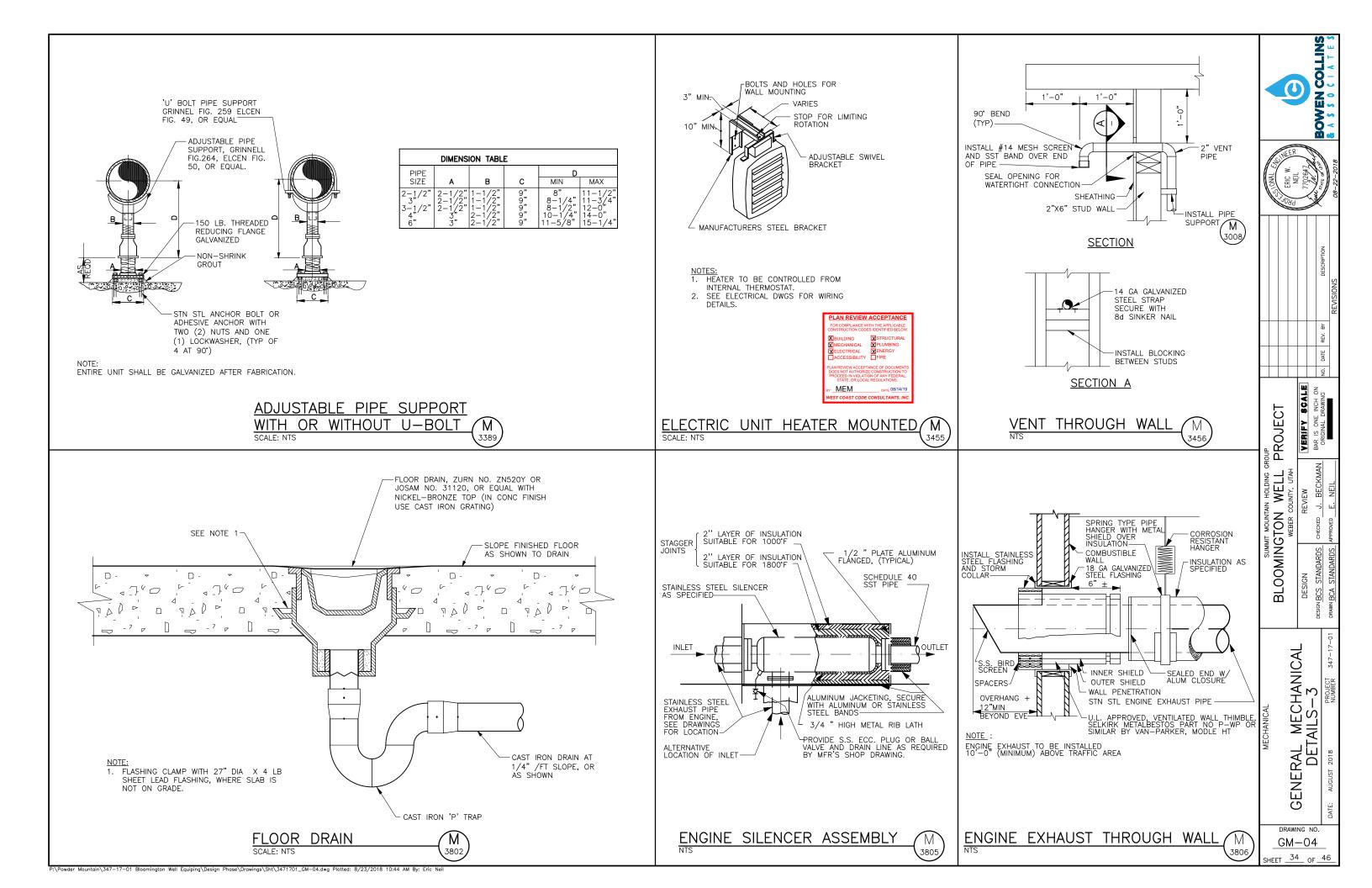
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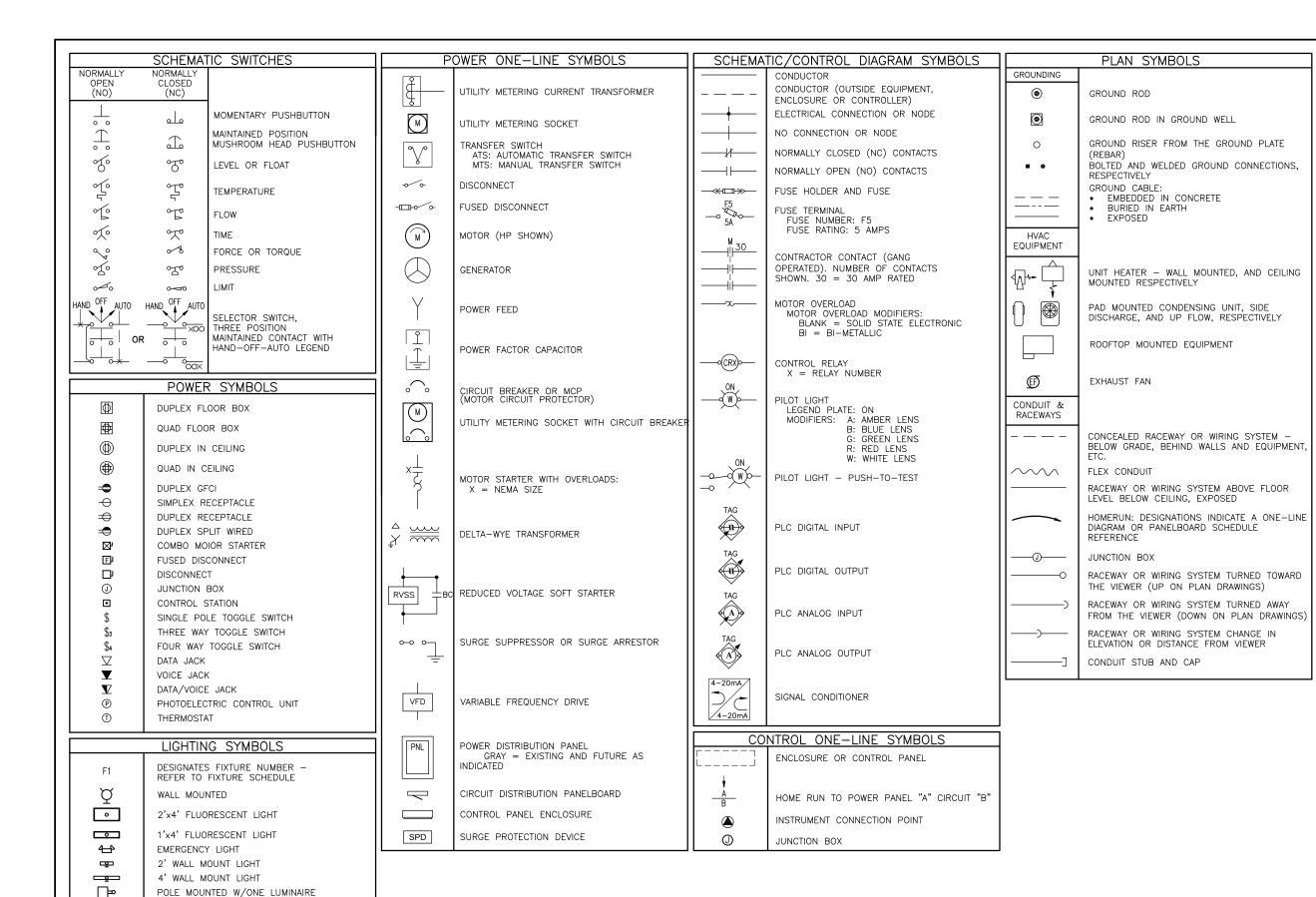
- 150 LB FLANGED

THREADED COUPLING

FAIR GAP MINIMUM TWO PIPE DIAMETERS OR NOT LESS THAN 2"







PLAN REVIEW ACCEPTANCE
FOR COMPLIANCE WITH THE APPLICABLE
CONSTRUCTION CODES DENTIFIED BELOW.

MBULLIDING STRUCTURAL
MECHANICAL PLUMBING
MECHANICAL PIRE
LACESSIBILITY PIRE
PLAN REVIEW ACCEPTANCE OF DOLUMENTS
DOES NOT AUTHORIZE CONSTRUCTION TO
PROCEED IN NOLATION OF ANY FEDERAL,
STATE. OR LOCAL REGULATIONS.

BY. MEM.

DATE 08/14/19
WEST COAST CODE CONSULTANTS, INC.

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DRAWING NO.

E-01 SHEET 35 OF 46

PENDANT OR CEILING MOUNTED

EXIT LIGHT

WARNING LIGHT

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	FIXTURE SCHEDULE										
SYMBOL	DESCRIPTION	MANUFACTURER	CATALOG NO.	VA	LAMP	MOUNTING	NOTES				
F1	ENCLOSED INDUSTRIAL FIBERGLASS HOUSING, WET LOCATION, LED, 120 VOLT WITH CHAIN MOUNT SUSPENSION BRACKET AND CHAIN		EVT4 4000LM PCL MD MVOLT 40K 80CRI CMB WITH 10' OF CHAIN	33	LED	CHAIN	SUSPEND WITH CHAIN TO MOUNT LEVEL WITH FLOOR				
F2	DELEON TL UNIVERSAL FACE EXIT SIGN UL WET/DAMP LOCATION LISTED DUAL VOLTAGE 120/277 W/GREEN EXIT LETTERS SELF—CONTAINED, SEALED MAINTENANCE FREE NICKEL CADMIUM BATTERY	HOLOPHANE	LNME-D-NC-G-SG-S-N	5	LED	WALL					
F3	WALL PACK, CUTOFF, LED, 120 VOLT AC, BLACK	HOLOPHANE	W4GLED 10C 1000 40K T3M 120 BK	38	LED	WALL					
F4	EMERGENCY LIGHT WITH TWO HEADS, 90MIN BATTERY POWER, WET LOCATION, INPUT POWER 120 VAC	HOLOPHANE	DM30 WL LED	8	LED	WALL					

EQUIPMENT GROUNDING

CONDUCTORS								
FUSE OR CB SIZE	SIZE (COPPER)							
15	14							
20	12							
30	10							
40	10							
60	10							
100	8							
200	6							
300	4							
400	3							
500	2							
600	1							
800	1/0							
1000	2/0							
1200	3/0							
1600	4/0							
2000	250							
2500	350							
00011	NDINO							

GROUNDING ELECTRODE CONDUCTOR SERVICE ENTRANCE OR SEPARATELY DERIVED SYSTEM

COPPER CONDUCTOR	WIRE SIZ
#2 OR SMALLER	#8
1 OR 1/0	#6
2/0 OR 3/0	#4
>3/0 THRU 350 KCMIL	#2
>350 KCMIL THRU 600 KCMIL	1/0
>600 KCMIL THRU 1100 KCMIL	2/0
>1100 KCMIL	3/0

GENERAL NOTES:

- A. VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH-IN. CONSULT ALL APPLICABLE CONTRACT DRAWINGS AND SHOP DRAWINGS TO ENSURE NEC CODE CLEARANCE REQUIRED AROUND ALL ELECTRICAL EQUIPMENT.
- B. CONTRACTOR SHALL VERIFY ALL ELECTRICAL LOADS (VOLTAGE, PHASE, CONNECTION REQUIREMENTS, ETC.) OF EQUIPMENT FURNISHED BEFORE BEGINNING ROUGH-IN.
- C. SEE APPLICABLE SHOP DRAWINGS FOR ROUGH-IN LOCATION OF ALL EQUIPMENT, WIRING DEVICES, ETC.
- D. THE ELECTRICAL CONTRACTOR SHALL NOTIFY AND COOPERATE WITH THE MECHANICAL CONTRACTOR SUCH THAT NO PIPING, OR EQUIPMENT FOREIGN TO THE OPERATION OF THE ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE INSTALLED IN, ENTER OR PASS THROUGH ELECTRICAL ROOMS OR SPACES; OR ABOVE OR BELOW ELECTRICAL EQUIPMENT IN THE OTHER AREAS.
- E. ALL PENETRATIONS OF FLOORS, WALLS AND CEILINGS SHALL BE SEALED WITH APPROVED MATERIAL.
- F. FOR PACKAGE EQUIPMENT PROVIDED ON THE PROJECT, SOME CONDUITS AND WIRES ARE SHOWN ON THE DRAWINGS, BUT IT IS EXPECTED THAT SOME ADDITIONAL CONDUITS AND WIRES MAY BE REQUIRED BY EQUIPMENT MANUFACTURERS TO COMPLETE INSTALLATION. IT IS INCUMBENT UPON THE GENERAL CONTRACTOR TO COORDINATE THIS REQUIREMENT WITH HIS SUBCONTRACTORS TO MAKE SURE THAT EQUIPMENT SUPPLIER PROVIDED ALL NECESSARY FLECTRICAL INFORMATION TO FLECTRICAL SUBCONTRACTOR FOR INCLUSION WHETHER SHOWN OR NOT SHOWN ON THE DRAWINGS.
- G. IF OTHER THAN FIRST NAMED EQUIPMENT IS USED, IT SHALL BE CAREFULLY CHECKED FOR ELECTRICAL REQUIREMENTS AND CONTROL REQUIREMENTS OF ALTERNATE EQUIPMENT. SHOULD CHANGES OR ADDITIONS OCCUR IN ELECTRICAL WORK, OR THE WORK OF OTHER CONTRACTORS BE REVISED BY THE ALTERNATE EQUIPMENT, THE COST OF ALL CHANGES SHALL BE BORNE BY THE ELECTRICAL CONTRACTOR.
- H. IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO DELIVER THE COMPLETE SET OF PLANS IN ORDER TO INSURE THAT ALL ITEMS RELATED TO ELECTRICAL POWER AND CONTROL SYSTEMS ARE COMPLETELY ACCOUNTED FOR.
- I. ALL EQUIPMENT DIMENSIONS SHOWN ON PLANS AND ELEVATIONS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL USE THE SHOP DRAWINGS FOR PROPER LAYOUT, FOUNDATION AND PAD, ETC. FOR FINAL INSTALLATION WITHOUT ANY ADDITIONAL COST TO THE
- J. THE DRAWINGS DIAGRAMMATICALLY INDICATE THE DESIRED LOCATION AND ARRANGEMENT OF OUTLETS, CONDUIT RUNS, EQUIPMENT AND OTHERS ITEMS. DETERMINE EXACT LOCATIONS IN THE FIELD BASED ON PHYSICAL SIZE AND ARRANGEMENT OF EQUIPMENT, FINISHED ELEVATIONS, AND OTHERS OBSTRUCTIONS. LOCATIONS SHOWN ON THE DRAWINGS, HOWEVER, SHALL BE ADHERED TO AS CLOSELY AS
- K. THE ELECTRICAL INSTALLATION SHALL COMPLY WITH THE CURRENT VERSION OF THE NEC.





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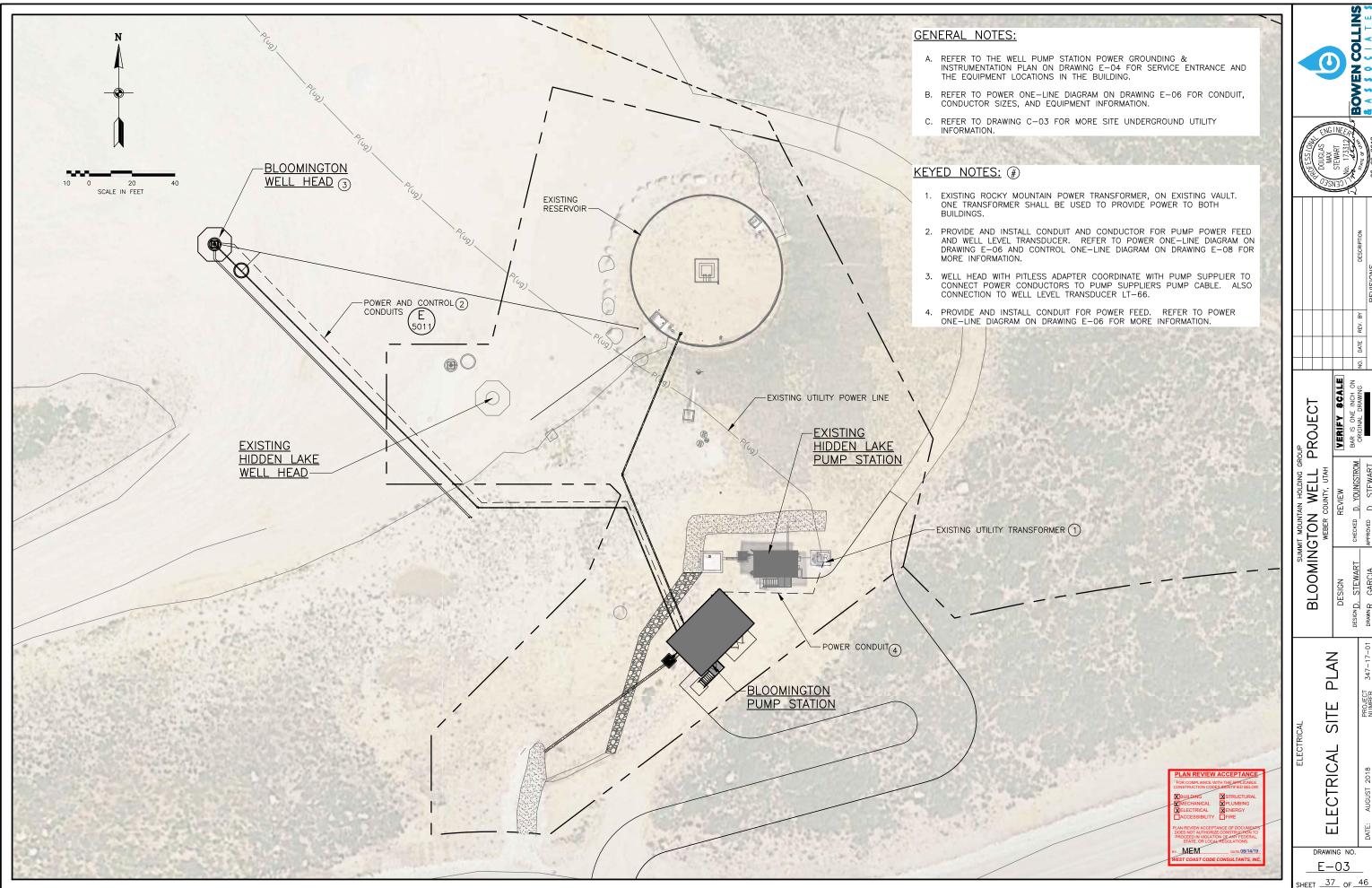
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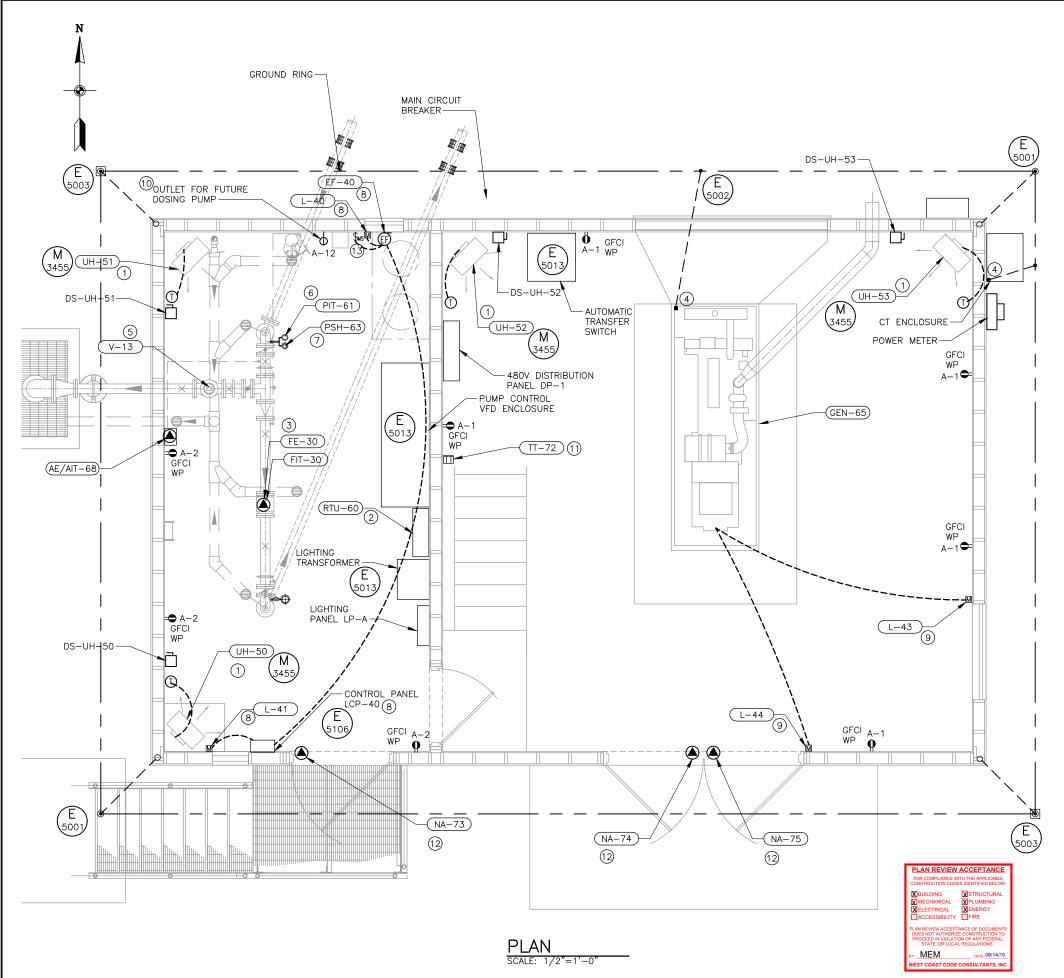
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DRAWING NO. E - 02

SHEET <u>36</u> OF 46

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GENERAL NOTES:

- A. PROVIDE AND INSTALL A #2/0 AWG BARE COPPER GROUND RING BURIED NOT LESS THAN 30" BELOW THE EARTH'S SURFACE. CONNECT REBAR (GROUND RISERS) TO GROUND RING VIA #2/0 AWG BARE COPPER GROUND CABLE, CONNECT CT ENCLOSURE, AND GENERATOR TO THE GROUND RING WITH #2/0 AWG BARE COPPER GROUND CABLE. THE GROUND RING SHALL BE A MINIMUM OF 2 FEET FROM BUILDING FOUNDATION. REFER TO GROUNDING PLAN SYMBOLS ON DRAWING
- B. DRAWING SHOWS TYPICAL LOCATIONS OF GROUNDING SYSTEM COMPONENTS.
- C. DRAWING SHOWS APPROXIMATE LOCATIONS AND MINIMUM NUMBER OF RISERS GROUNDING CONNECTIONS TO BE INSTALLED.
- SUPPORT ELECTRICAL CONDUITS ON SUPPORTS INDEPENDENT OF PIPING. SUPPORTING THE ELECTRICAL CONDUIT OFF PIPING WILL NOT BE ALLOWED. WHERE POSSIBLE ALL CONDUITS WILL BE EMBEDDED IN WALLS AND FLOOR OF BUILDING. CONDUITS TO EQUIPMENT IN CENTER OF ROOM WILL BE EMBEDDED IN FLOOR AND AVOID RUNNING ACROSS
- E. PROVIDE AND INSTALL INSULATED UNION AT ELECTRICAL CONDUIT CONNECTIONS TO VALVE ACTUATORS, SENSORS OR OTHER EQUIPMENT IN CONTACT WITH PIPING.
- F. RECEPTACLES IN VAULT SHALL BE MOUNTED 48" ABOVE FINISHED FLOOR AND SHALL BE WEATHER PROOF GFCI.
- G. ALL EXPOSED CONDUIT, BOXES, AND FITTINGS IN THE BUILDING SHALL BE GALVANIZED RIGID STEEL SUPPORTED ON ZINC COATED STRUT. CONDUIT EMBEDDED IN CONCRETE SHALL BE PVC CONDUIT, TRANSITIONS FROM EMBEDDED CONDUIT TO EXPOSED CONDUIT SHALL BE MADE WITH PVC WRAPPED GALVANIZED RIGID STEEL
- REFER TO POWER ONE-LINE DIAGRAM ON DRAWING E-06, PANEL SCHEDULE ON DRAWING E-07 AND CONTROL ONE-LINE DIAGRAM ON DRAWING E-08 FOR CONDUIT/CONDUCTOR QUANTITY AND SIZES.

KEY NOTES: (#)

- PROVIDE AND INSTALL ELECTRIC UNIT HEATER WITH WALL MOUNTED THERMOSTAT. REFER TO POWER ONE—LINE DIAGRAM ON DRAWING E—06 FOR MORE INFORMATION.
- 2. PROVIDE AND INSTALL ALL CONDUIT AND CONDUCTORS TO THE MISSION CONTROL PANEL. REFER TO THE CONTROL ONE-LINE DIAGRAM FOR MORE INFORMATION. THE MISSION CONTROL PANEL AND PROGRAMMING WILL BE PROVIDED BY OTHERS.
- 3. MAGNETIC FLOW METER ELEMENT AND INTEGRAL MOUNTED TRANSMITTER. FE-30 AND FIT-30.
- 4. CONNECT GROUND RING TO CT ENCLOSURE AND GENERATOR. SEE GENERAL NOTE A.
- 5. PUMP CONTROL VALVE, WITH SOLENOID CONTROL SV-13 AND LIMIT SWITCHES ZSC-13 AND ZSO-13. THE SECOND LIMIT SWITCH SHALL BE CONNECTED TO THE RTU PANEL. REFER TO PUMP MOTOR SCHEMATIC FOR VALVE CONTROL INFORMATION. REFER TO CONTROL ONE-LINE DIAGRAM FOR CONDUIT AND CONDUCTOR INFORMATION.
- 6. PRESSURE INDICATING TRANSMITTER REFER TO CONTROL ONE-LINE DIAGRAM FOR MORE INFORMATION.
- 7. HIGH DISCHARGE PRESSURE SWITCH REFER TO CONTROL ONE-LINE DIAGRAM FOR MORE INFORMATION.
- EXHAUST FAN CONTROL PANEL; STARTS EF-40 AND OPENS MOTOR OPERATED LOUVERS WHEN LIGHTS ARE TURNED ON. DETAIL
- MOTOR OPERATED LOUVERS ARE POWERED CLOSED AND SPRING OPENED. LOUVERS OPEN WHEN THE GENERATOR IS RUNNING. REFER TO CONTROL ONE-LINE DIAGRAM.
- 10. SIMPLEX OUTLET FOR FUTURE DOSING PUMP CL-61, CONNECT POWER TO OUTLET THROUGH PANEL RTU-60. OUTLET WILL BE ENERGIZED WHEN THE WELL IS PUMPING WATER TO THE SYSTEM.
- 11. TEMPERATURE TRANSMITTER. REFER TO CONTROL ONE-LINE DIAGRAM FOR MORE INFORMATION.
- 12. DOOR OPEN ALARM SENSOR. REFER TO CONTROL ONE-LINE DIAGRAM FOR MORE INFORMATION.
- 13. EXHAUST FAN MANUAL MOTOR STARTER, REFER TO CONTROL ONE-LINE DIAGRAM FOR MORE INFORMATION.





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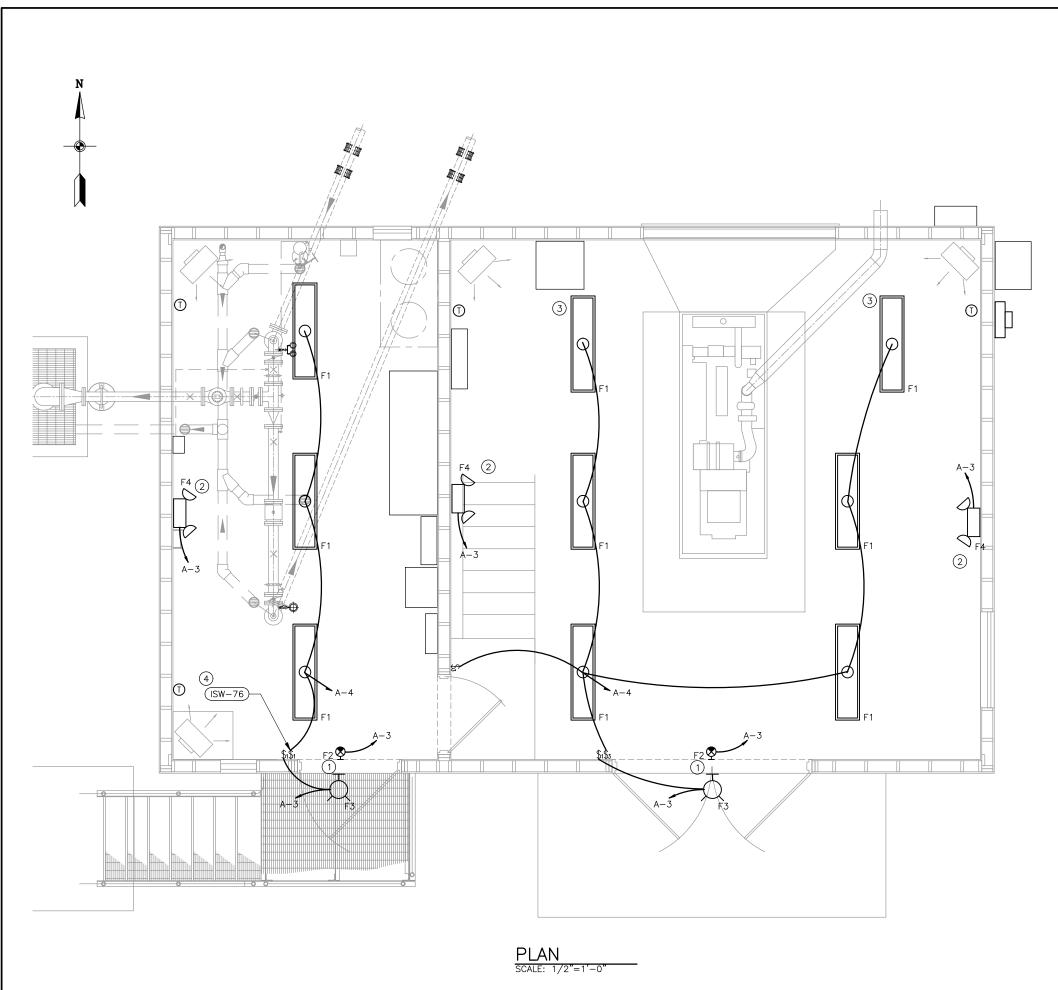
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WELL PUMP S GROUNDING, PC INSTRUMENTATION

DRAWING NO. E-04 SHEET 38 OF 46



GENERAL NOTES:

- A. REFER TO FIXTURE SCHEDULE ON DRAWING E-02 FOR FIXTURE INFORMATION.
- B. REFER TO PANEL SCHEDULE ON DRAWING E-07 FOR CIRCUIT NUMBERS, CONDUIT/CONDUCTOR QUANTITY AND SIZES.
- C. THE TYPE F1 FIXTURES SHALL BE INSTALLED WITH CHAIN AND SHALL BE LEVEL WITH FLOOR.

KEY NOTES: (#)

- 1. INSTALL WALL PACK AND EXIT SIGN FIXTURES APPROXIMATELY 6" ABOVE TOP OF DOOR.
- 2. INSTALL EMERGENCY LIGHT FIXTURES APPROXIMATELY 7' ABOVE FINISHED FLOOR.
- 3. COORDINATE FIXTURE INSTALLATION WITH MECHANICAL AND OTHER ELECTRICAL EQUIPMENT TO AVOID INTERFERENCE.
- 4. INFRARED AND DETECTION OF HUMAN ACTIVITY SENSING SWITCH TO TURN OFF LIGHTS AFTER A PRESET TIME DELAY WHEN THIS ROOM IS UNOCCUPIED. REFER TO INSTRUMENT LIST SPECIFICATION 40 75 01 TAG NUMBER ISW-76.

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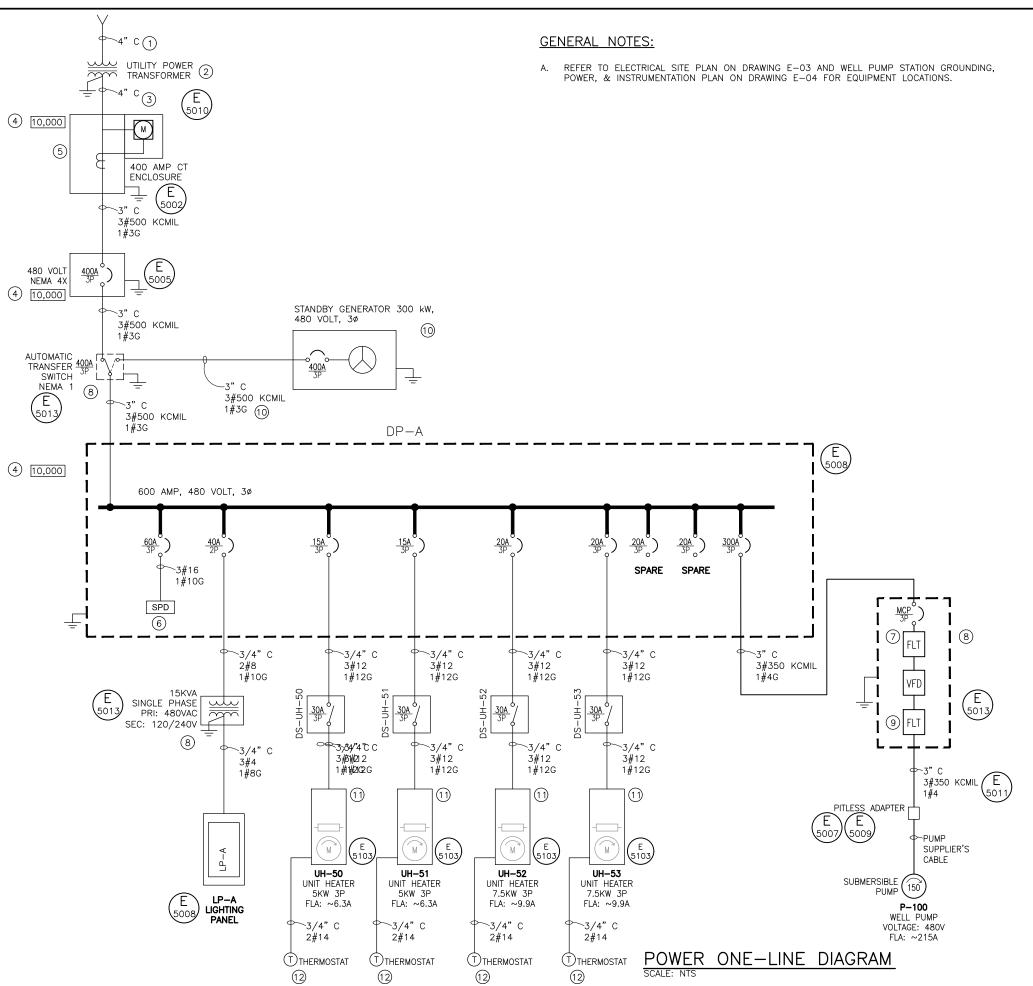
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SUMMIT MOUNTAIN HOLDING GROUP
BLOOMINGTON WELL PROJECT
WEBER COUNTY, UTAH

STATION PLAN

WELL PUMP LIGHTING

DRAWING NO. E-05 SHEET 39 OF 46



KEY NOTES: (#)

- ROCKY MOUNTAIN POWER EXISTING POWER FEED.
- ROCKY MOUNTAIN POWER EXISTING TRANSFORMER ON EXISTING VAULT. COORDINATE WITH ROCKY MOUNTAIN POWER TO PROVIDE AND INSTALL CONDUIT FROM EXISTING TRANSFORMER VAULT.
- PROVIDE AND INSTALL CONDUIT FROM TRANSFORMER TO CT ENCLOSURE. REFER TO DRAWINGS E-03 AND E-04 FOR LOCATIONS. COORDINATE WITH ROCKY MOUNTAIN POWER FOR ACCESS TO TRANSFORMER VAULT AND OUTAGES AS REQUIRED. UNDERGROUND CONDUIT SHALL BE PVC SCHEDULE 40, WITH MULE TAPE IN CONDUIT, UNDERGROUND ELBOWS SHALL BE FIBERGLASS. EXPOSED CONDUIT SHALL BE GALVANIZED RIGID STEEL, TRANSITION FROM BELOW GROUND TO ABOVE GROUND CONDUIT SHALL BE MADE WITH PVC WRAPPED GALVANIZED RIGID STEEL CONDUIT. CONDUITS SHALL BE INSTALLED IN ACCORDANCE WITH ROCKY MOUNTAIN POWER REQUIREMENTS. CONDUCTORS SHALL BE PROVIDED AND INSTALLED BY ROCKY MOUNTAIN POWER.
- SHORT CIRCUIT CURRENT AVAILABLE IN AMPS. OVER CURRENT PROTECTIVE DEVICES SHALL BE RATED TO WITHSTAND AVAILABLE SHORT CIRCUIT CURRENT.
- PROVIDE AND INSTALL CT ENCLOSURE AND METER BASE IN ACCORDANCE 5. WITH ROCKY MOUNTAIN POWER REQUIREMENTS.
- PROVIDE AND INSTALL A SURGE PROTECTIVE DEVICE. THE SPD SHALL BE RATED 240 KA PER PHASE AND 120 KA PER MODE, 3-WIRE, 3-PHASE 480 VOLTS. REFER TO SPECIFICATION FOR MORE INFORMATION.
- HARMONIC FILTER FOR VFD, REFER TO SPECIFICATION FOR MORE 7. INFORMATION.
- PROVIDE AND INSTALL HOUSEKEEPING PAD FOR VFD, TRANSFORMER, AND AUTOMATIC TRANSFER SWITCH.
- 9. OUTPUT SIGN WAVE FILTER FOR THE VFD. SEE VFD SPECIFICATION.
- 10. PROVIDE AND INSTALL GENERATOR IN ACCORDANCE WITH SPECIFICATION. REFER TO PANEL SCHEDULE A AND CONTROL ONE-LINE DIAGRAM FOR ADDITIONAL CONDUIT AND CONDUCTOR INFORMATION.
- 11. PROVIDE AND INSTALL ELECTRIC UNIT HEATERS. REFER TO EQUIPMENT SCHEDULE ON DRAWING M-03 FOR MORE INFORMATION.
- 12. PROVIDE AND INSTALL WALL MOUNTED HEATING THERMOSTAT. SHALL BE CHROMALOX WCRT HEATING, WALL MOUNTED THERMOSTAT.

9 9 SCALE PROJECT SUMMIT MOUNTAIN HOLDING A BLOOMINGTON WELL WEBER COUNTY, UTAH ے ا STEWART 힐힐 POWER -LINE DIAGRAM ONE

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DRAWING NO. E-06

SHEET 40 OF 46

SUMMIT MOUNTAIN HOLDING GROUP **BLOOMINGTON WELL PROJECT**

PANEL: A VOLT:240/			240/	120			AMI	P:100		PHASE:1 WIRE:3		
LOCATION (ROOM #):		ELEC	TRO	OM		NOTE:			-			
MFG:		SEE	SPEC	IFICATI	ION	AIC RATING	G:			10,000		
TYPE:		SURF	ACE	MOUNT	Г	GROUND E	BUS:			YES		
TYPE OF MAIN:		80A N	M.C.B.			MOUNTING	3 :			SURFACE		
FEEDER:			ONE-L			FED FROM				SEE ONE-LINE		
, 22321	P		СКТ	and the second			скт	BRK	P			
CIRCUIT DESCRIPTION	L	AMP	NO	A		В	NO	AMP	L	CIRCUIT DESCRIPTION		
GENERATOR ROOM	1	20	1	900			2	20	1	MAIN ROOM		
RECEPTACLES					540			0.000		RECEPTACLES		
OUTSIDE LIGHTS, EMERGENCY LIGHT EXIT SIGNS	1	20	3			110 297	4	20	1	INSIDE LIGHTS		
GNERATOR COOLANT HEATER	2	20	5	800	503		6	20	1	GENERATOR BATTERY		
		Fare			300					CHARGER		
•	*	**	7			800	8	20	2	LOUVERS IN GENERATOR ROOM		
EVILALIOTEAN AND LOUNEDO	_		-	000		200			-	(THROUGH GEN. CONT. PANEL)		
EXHAUST FAN AND LOUVERS	1	20	9	300	200		10	20	1	FLOW METER		
CONTROL PANEL LCP-40	4	00	144		300	the second secon	40	45	-	FE/FIT-30		
RTU PANEL RTU-60	1	20	11			300	12	15	1	FUTURE DOSING PUMP OUTLET		
(MISSION CONTROL PANEL)	4	00	110	000		(00	-	(CONNECTED THROUGH RTU)		
TURBIDITY METER AE/AIT-68	1	20	13	300	0		14	20	1	SPARE		
SPARE	1	20	15			0	16	20	1	SPARE		
SPARE	1	20	17	0	0		18	20	1	SPARE		
SPARE	1	20	19		Ĭ	0	20	20	1	SPARE		
SPARE	1	20	21	0	0		22	20	1	SPARE		
SPARE	1	20	23		Ĭ	0	24	20	1	SPARE		
SPACE	1	20	25	0	0		26	20	1	SPACE		
SPACE	1	20	27			0	28	20	1	SPACE		
SPACE	1	20	29	0	0		30	20	1	SPACE		
PHASE TOTALS					3440	1707	,					
TOTAL WATTS				1	5147							
TOTAL AMPS					25					2/19/19		

GENERAL NOTES:

- A. THE MINIMUM SIZE POWER CONDUCTORS SHALL BE #12 AWG.
 THE MINIMUM SIZE CONDUIT SHALL BE 3/4". CONTRACTOR TO
 SIZE ALL OTHER CONDUIT AND CONDUCTORS TO MEET OR
 EXCEED CURRENT NATIONAL ELECTRICAL CODE (NEC)
 REQUIREMENTS.
- B. FOR EQUIPMENT LOCATIONS REFER TO THE WELL PUMP STATION POWER GROUNDING & INSTRUMENTATION PLAN ON DRAWING $E\!-\!04.$





						DESCRIPTION	REVISIONS		
						B			
						REV. BY			
						NO. DATE			
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	+	_		SCALE	NO TON	DRAWING			

PROJEC SUMMIT MOUNTAIN HOLDING G
BLOOMINGTON WELL
WEBER COUNTY, UTAH

SCHEDULE -P-A

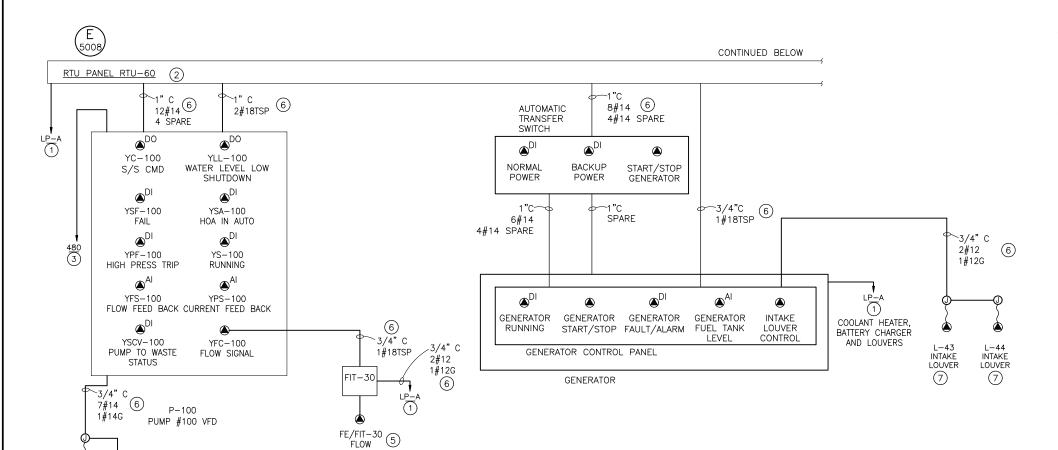
PANEL

DRAWING NO. __E-07 SHEET 41 OF 46

MEM

GENERAL NOTES:

- A. FOR EQUIPMENT LOCATIONS REFER TO WELL PUMP STATION GROUNDING, POWER, & INSTRUMENTATION PLAN ON DRAWING
- B. REFER TO THE POWER ONE LINE DIAGRAM ON DRAWING E-06 FOR EQUIPMENT INFORMATION AND CONDUIT/CONDUCTOR SIZES. REFER TO THE PANEL SCHEDULE A ON DRAWING E-07 FOR CONDUIT/CONDUIT SIZES AND CIRCUIT NUMBERS.



CONTINUED FROM ABOVE

2#14 (6)

9

3/4" C

AIT-68

TURBIDITY METER

-3/4" C MANUFACTURER'S

CABLE

AF-68 TURRIDITY FLEMENT

1#18TSP (6)

KEY NOTES: (#)

- 1. REFER TO PANEL SCHEDULE A FOR CIRCUIT NUMBER, CONDUIT AND CONDUCTOR SIZES.
- 2. RTU PANEL INSTALLED BY CONTRACTOR PROVIDED AND PROGRAMMED BY OTHERS.
- 3. REFER TO POWER ONE-LINE DIAGRAM FOR 480 VOLT POWER FEED TO VFD.
- 4. 24VDC LOOP POWERED INSTRUMENT.

~3/4" C 6

1#12G

(10)

OUTLET FOR

FUTURE DOSING

3/4" C 1#18TSP 6

4

LT-66 WELL LEVEL

PRESSURE TRANSDUCER

E 5107

- 5. FLOW METER WITH INTEGRAL MOUNTED TRANSMITTER.
- 6. PROVIDE AND INSTALL CONDUITS AND CONDUCTORS AND TERMINATE ALL CONDUCTORS AT BOTH ENDS. COORDINATE TERMINATIONS WITH PANEL PROVIDER.
- 7. ELECTRIC MOTORS FOR INTAKE LOUVERS ARE CONTROLLED BY THE GENERATOR CONTROL PANEL. THE LOUVERS ARE POWERED CLOSED AND SPRING OPEN.
- 8. TEMPERATURE TRANSMITTER SHALL BE OMEGA EWS-TX.
- 9. THE PUMP TO WASTE VALVE SHALL BE PROVIDED WITH TWO LIMIT SWITCHES. THE SECOND LIMIT SWITCH SHALL BE CONNECTED TO THE RTU PANEL.
- 10. THE OUTLET SHALL BE ENERGIZED WHEN THE WELL IS PUMPING WATER TO THE SYSTEM.

MEM

DRAWING NO. E-08 SHEET 42 OF 46

BOWEN

SCALE

PROJECT

SUMMIT MOUNTAIN HOLDING SUMMINGTON WELL WEBER COUNTY, UTAH

STEWART

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CONTROL -LINE DIAGRAM

ONE

CONTROL BLOCK DIAGRAM

~3/4" C 6

2#14

DOOR OPEN

ALARM

E 5012

3/4" C 2#14 6

DOOR OPEN DOOR OPEN

ALARM

ALARM

5012

3/4" C 1#18TSP 6

4 8

TT-72 GEN. ROOM

TEMPERATURE TRANSMITTER

3/4" C 1#18TSP 6

4

PIT-61

PRESSURE

E 5104

TRANSDUCER

~3/4" C 5#14

1#14G

(9)

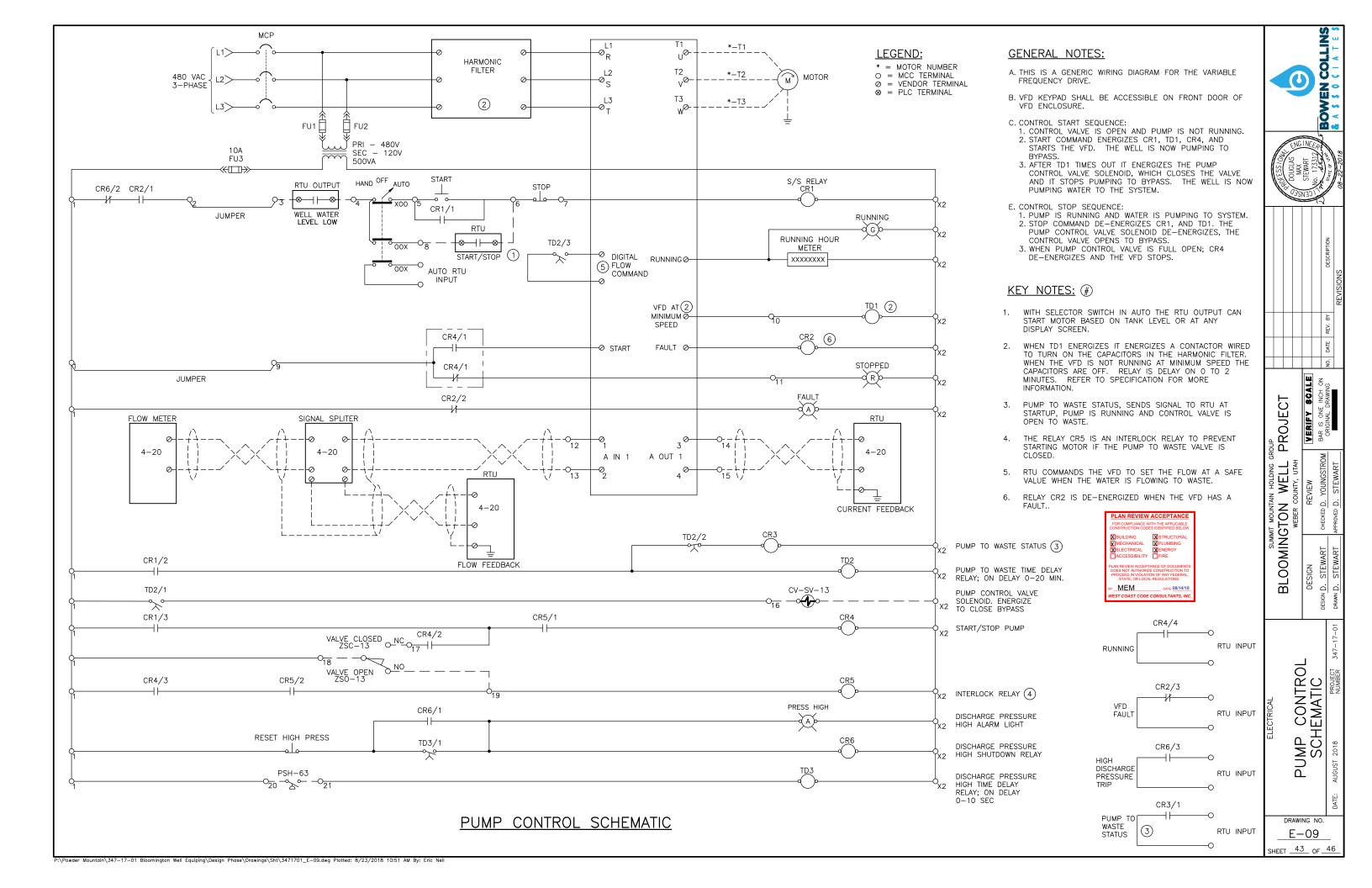
CONTROL VALVE SOLENOID, OPEN AND CLOSED STATUS.

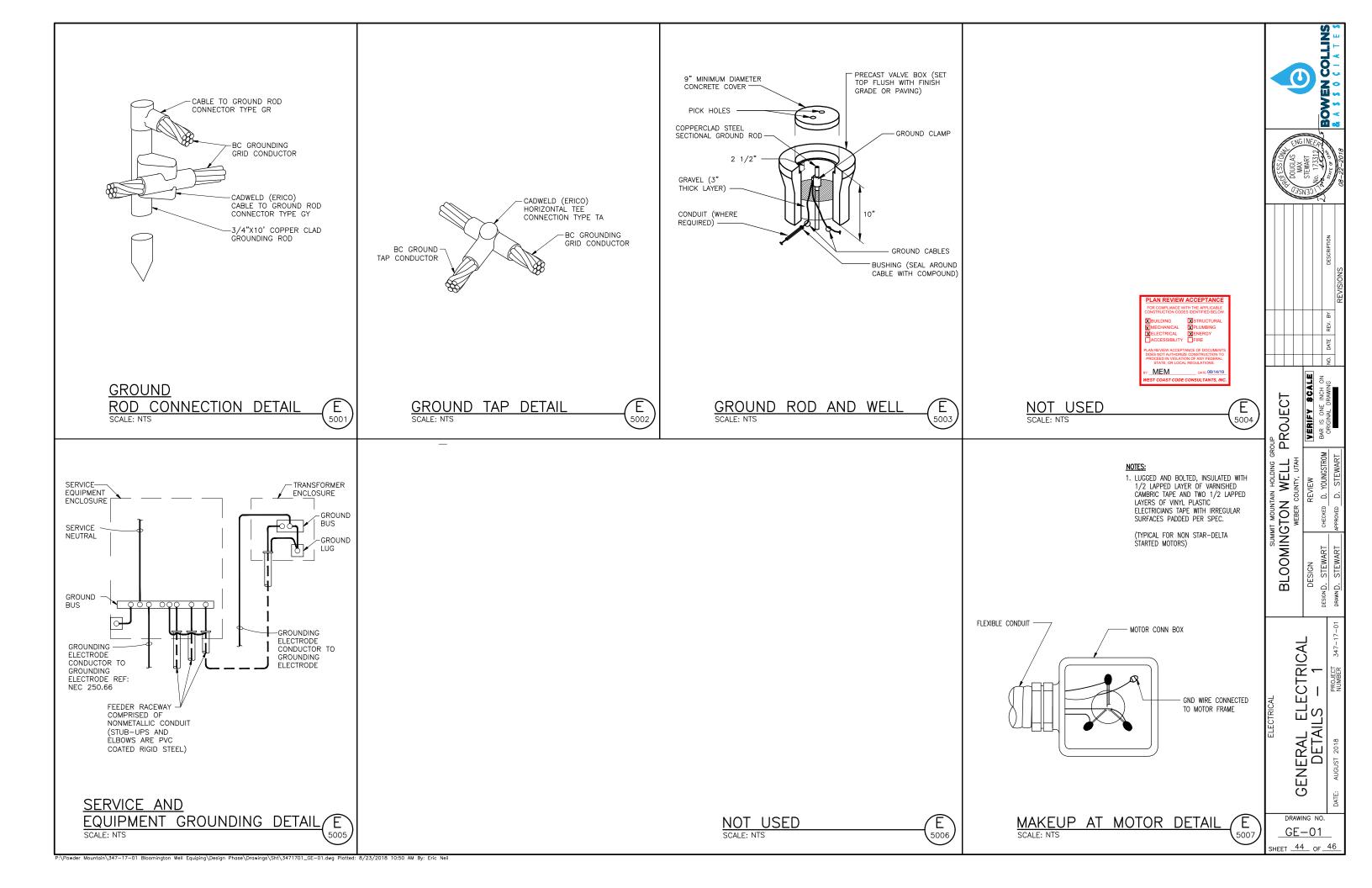
PSH-63

SWITCH

TRANSMITTER

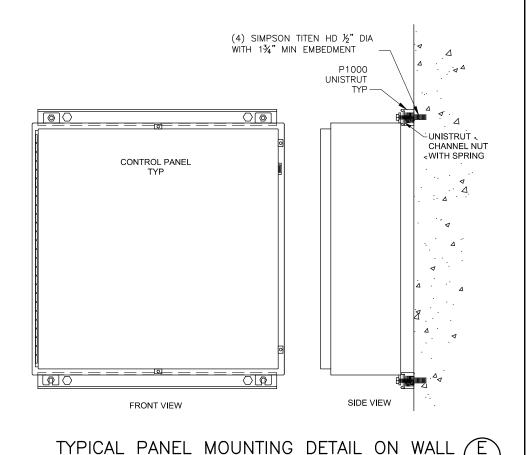
E 5102



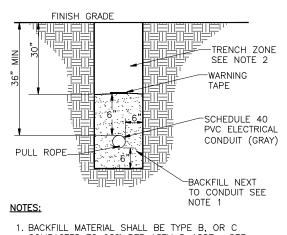


GENERAL NOTES

- 1. MOUNT PANEL OR INDICATING TRANSMITTER AT ABOUT 4' TO 5' ABOVE FINISHED FLOOR UNLESS OTHERWISE SPECIFIED IN DRAWINGS.
- 2. ANCHORAGE BASED ON HOLLOW CMU AND 500 LBS MAXIMUM WEIGHT OF CABINET
- 3. FASTEN CABINET TO UNISTRUT WITH MIN (4) %" DIA BOLTS AND CHANNEL NUTS.



CROSS LINKED HEAT SHRINKABLE RAYCHEM PLYOLEFIN CAP OR 3M COLD SHRINK COMPRESSION RING LUG BOLTED TOGETHER MOTOR FEEDER -→ MOTOR LEAD CONDUCTOR



- COMPACTED TO 95% PER ASTM D 1557. SEE SPECIFICATION 31 23 00.
- 2. NATIVE MATERIAL MEETING SPECIFICATION 31 23 00 FOR SUITABLE MATERIAL MAY BE USED FOR TRENCH ZONE BACKFILL IN UNIMPROVED AREAS,

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DESIGN D.

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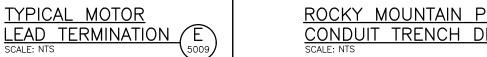
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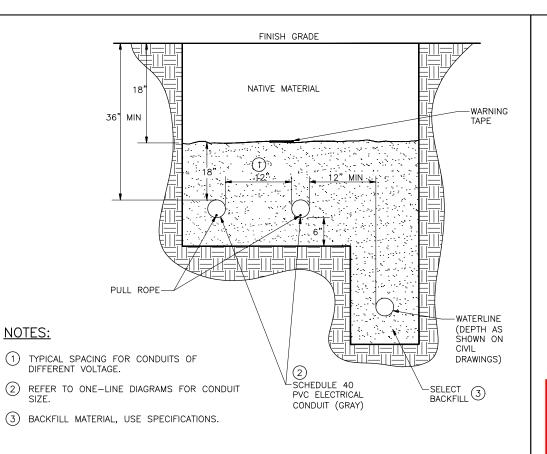
RAL

PROJECT

- 3. FOR MORE THAN ONE CONDUIT IN TRENCH ALLOW 6 INCHES BETWEEN CONDUITS.
- 4. REFER TO POWER ONE-LINE DIAGRAM FOR CONDUIT SIZES.



ROCKY MOUNTAIN POWER CONDUIT TRENCH DETAIL



CONDUIT TRENCH DETAIL

MEM

