# CORPORATION OF THE PRESIDING BISHOP OF THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

100% Construction Drawings for the

# CAMP ATOKA PROJECT No. 502-6679-13010101 WATER SYSTEM IMPROVEMENTS

APRIL 2014 CONFORMED SET









#### VICINITY MAP

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VICINITY MAP, AND LIST OF DRAWINGS G-2

I M M

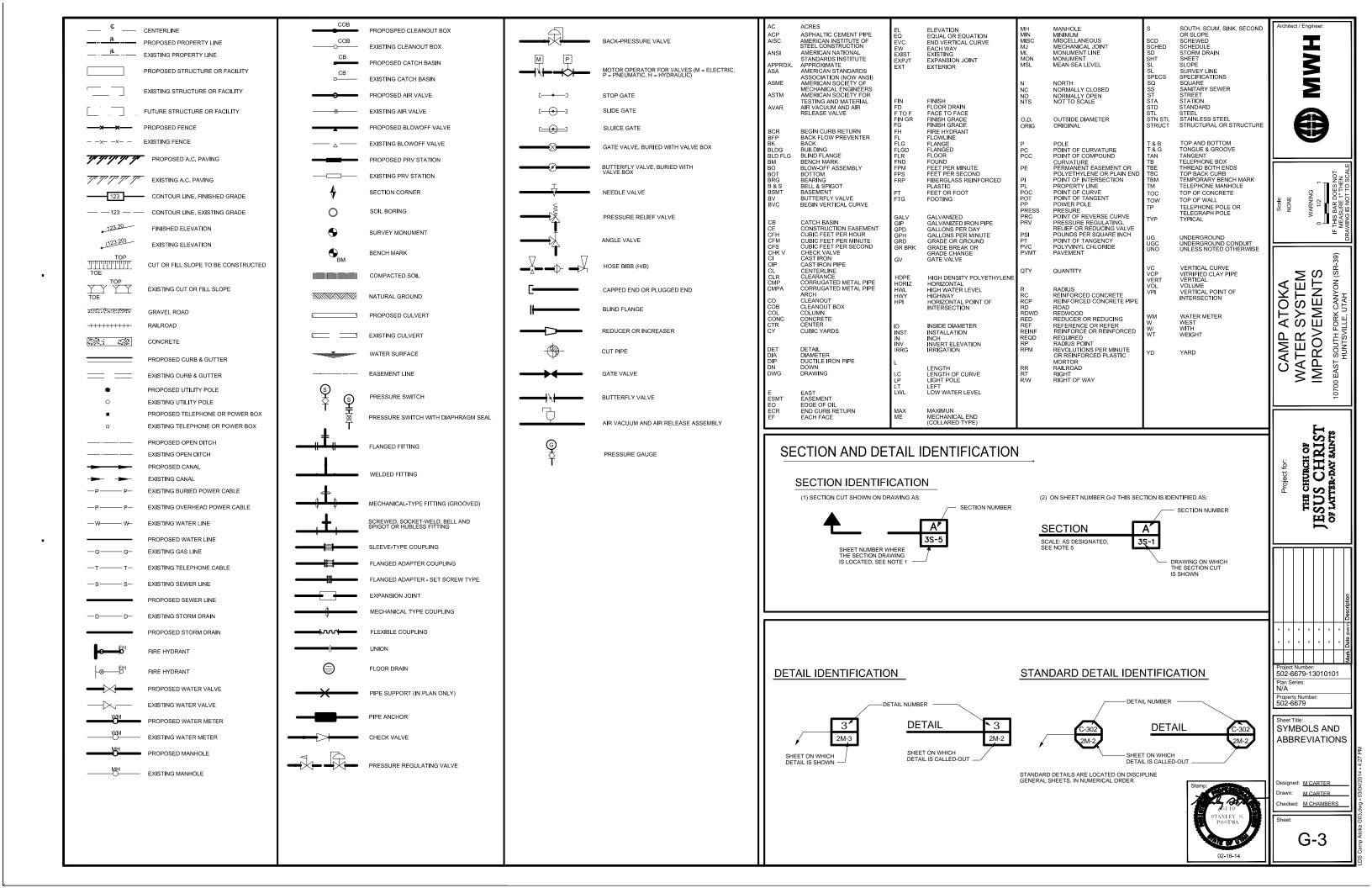
CAMP ATOKA WATER SYSTEM IMPROVEMENTS

THE CHURCH OF JESUS CHRIST OF LAITER-DAY SAINTS

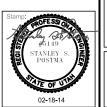
Project Number: 502-6679-13010101 Plan Series: N/A

Sheet Title: LOCATION MAP,

Property Number 502-6679

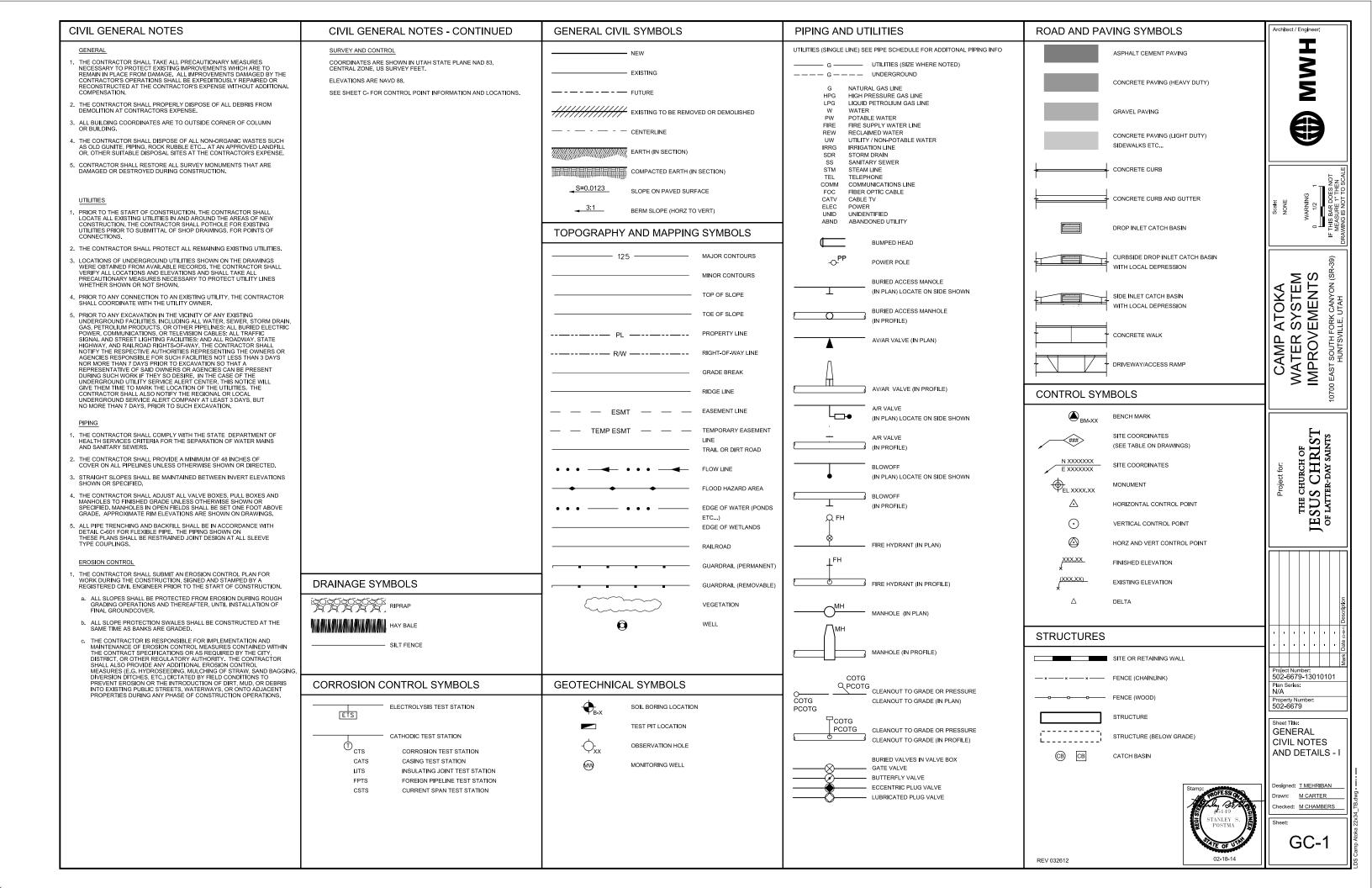


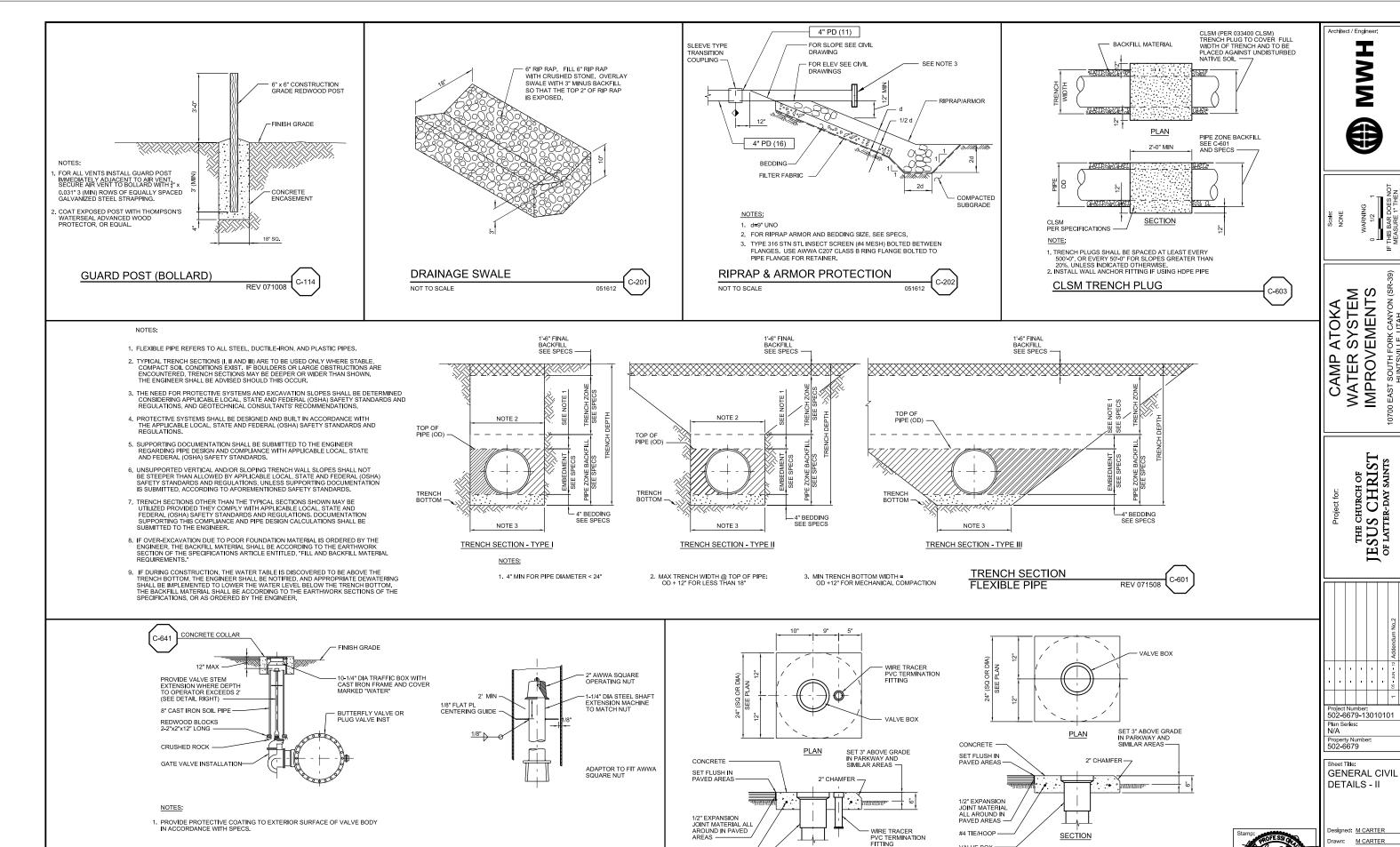
FUNCTION	PIPING MATERIALS (SEE SCH AT RIGHT)	(SEE NOTE 3	EQUIREMENTS AND NOTE 4)	GROUF NO	PIPE (SEE NOTE 13)	PIPING MATERIAL SCH (SEE NOTE 4 AND GENERAL NOTE AT RIGHT) FITTINGS	VALVES, 6" AND SMALLER (SEE NOTE 1, 11 & 16)	Archit	tect / Engine	er:
THIS LIST INCLUDES SOME LINES NOT USED IN THIS PROJECT (* SEE NOTE 5)	EXPOSED PIPNIG (SEE NOTE 14) (SEE NOTE 13)  4" DIA 6" DIA 4" DIA AND AND AND AND AND SMALLER LARGER SMALLER LAR	MINIMUM TEST TEST PRESSURE MEDIU PSI		1	STEEL, ASTM A53, SCH 40, BLACK WELDED. GALVANIZED	2 1/2" AND SMALLER, MALLEABLE IRON, ASME B16.3, THREADED, BANDED, BLACK, 150 PSI OR STEEL, ASME B16.9, BUTT-WELDED. 3" AND LARGER, CAST IRON, ASME B16.1, 125 PSI FLANGED OR MECHANICAL COUPLING.	BRONZE, THREADED, GATE: CRANE 428 UB OR STOCKHAM B-105, GLOBE: STOCKHAM B-37. CHECK: CRANE 37 OR STOCKHAM B-319Y, IRON PLUG VALVE: NORDSTROM FIG 142 OR 143, ECCENTRIC PLUG: DEZURIK PEC, CAST IRON OR MILLIKEN 803E. BALL: JAMESBURY FIG 351 OR WATTS #8-6080, LUBRICATED PLUG VALVE (FOR CONDENSATE ONLY): NORDSTROM FIG 1140 OR 115.		M M	j
PLANT DRAIN OR DRAIN PLANT OVERFLOW POTABLE WATER RAW WATER	2 8,12,31 2,27,35 12,22,26,27,3 2 8 2 8,28 2,11,6,24 8,11,16 11,16,24,31 8,11,16,19,31 2,11,16,24 8,11,16 11,16,24,31 8,11,16,19,31	NOTE 6 WATER NOTE 6 WATER 11 125 WATER 125 WATER	R 2,8(A) 28(B) R 2,8,11,16,24(A) 19,28(B)	2	STEEL, ASTM A53, SCH 40, BLACK WELDED,	2 1/2" AND SMALLER, MALLEABLE IRON, ASME B16.3, THREADED, BANDED, GALVANIZED 150 PSI. 3" AND LARGER, CAST IRON, ASME B16.1, 125 PSI FLANGED OR MECHANICAL COUPLING.	2 1/2" AND SMALLER, ECCENTRIC PLUG, SYNTHETIC RUBBER FACED: DEZURIK PEC, CASTIRON, OR MILLIKEN 603E. BALL: JAMESBURY 1FG 351 OR WATTS #8-6080. 3" AND LARGER, ECCENTRIC PLUG, SYNTHETIC RUBBER FACED: DEZURIK PEC, CASTIRON, OR MILLIKEN 601, GATE: AWWA C500. BUTTERFLY: AWWA, FLANGED		$\leq$	
RAINWATER LEADER SAMPLE LINE (SEE LIST AT RIGHT)	4,12 12 12 12 16,24 – 16,24 –	NOTE 7 — 125 WATER	_	3	STEEL, ASTM A106 OR A53, SCH 80, SEAMLESS, BLACK.	FORGED STEEL, ASME B16.11, SOCKET WELDED OR THREADED, BLACK, 2000 PSI, OR STEEL, ASME B16.9, BUTT-WELDED, SCH 80.	CAST IRON, LUBRICATED PLUG: NORDSTROM FIG 214 OR 305			
SANITARY DRAIN AND VENT STORM DRAIN	4,12     12     12,35     12       -     8     -     22	NOTE 7 — NOTE 6 WATER	R 8(A) 28(B) 22(C)	4	SAME AS GROUP NO. 1	CAST IRON, ASME B16.12, THREADED, DRAINAGE PATTERN.	_			3
SANITARY SEWER STRUCTURE UNDERDRAIN STRUCTURE UNDERDRAIN COLLECTOR	- 12,22 - 12,22 - 23 23	NOTE 7 - NO TEST		5	WELDED STEEL, AWWA C200, UNLINED.  STEEL, ASTM A106, OR A53, SCH 40, SEAMLESS,	WELDED STEEL, FABRICATED, AWWA C208, UNLINED.  STEEL, ASME B16.9, BUTT-WELDED. CAST IRON, ASME B16.1, 125 PSI, FLANGED	CAST IRON, FLANGED, LUBRICATED PLUG: NORDSTROM FIG 143  AS INDICATED ON DRAWINGS			7
	-         -         23         23           2,11,14,15,16,24         8,11,14,15,16         11,14,15,16,24         8,11,19           2         2         2         2	NOTE 6 WATER 125 WATER 25 AIR	R 2,11,24(A) 19(B)	6	BLACK.	FORGED STEEL, SOCKET WELDED, ASME B16.11, 2000 PSI OR STEEL, ASME B16.5, 150 PSI FLANGED.				
LIST OF SAMPLE LINES			-	7	SAME AS GROUP NO. 2.	MALLEABLE IRON, ASME B16.3, THREADED, BANDED, GALVANIZED, 300 PSI.	BRONZE THREADED, GLOBE: CRANE #212P OR STOCKHAM B-62 OR B-32T, BALL: JAMESBURY FIG 351 OR WATTS #B-6080. CHECK: CRANE #27TF OR STOCKHAM B-322T.			
IPE SNATION SAMPLE POINT	TYPICAL PIPE DESIGNATION: MATER	RIAL GROUP NUMBER		8	WELDED STEEL PIPE (AWWA C200 AND MODIFIED PER SECTION 02570)	WELDED STEEL, AWWA C208, FABRICATED.	AS INDICATED ON DRAWINGS.		ۍ ۲	-
	(SEE N	NOTE 12)		9	SAME AS GROUP NO. 1.	2 1/2" AND SMALLER, MALLEABLE IRON, ASME B16.3, THREADED, BANDED, BLACK, 150 PSI. 3" AND LARGER, STEEL, ASME B16.9, BUTT-WELDED	ECCENTRIC PLUG: DEZURIK PEC, CAST IRON, OR MILLIKEN 603E. CHECK: CRANE 336E OR MILWAUKEE #544. BALL: JAMESBURY FIG 351 OR WATTS #B-6080.	Scale:	ARNIN 45	7/1
	PIPE DIAMETERFLUID AE	BBREVIATION		10	SAME AS GROUP NO. 3.	1-1/4" AND SMALLER, FORGED STEEL, ASME B16.11, THREADED OR SOCKET WELDED, BLACK, 3000 PSI, WITH FLANGED AMMONIA UNIONS, 1-1/2" AND LARGER, STEEL, ASME B16.9, BUTT-WELDED OR FLANGED, SCEHDULE 80	SEMI-PLUG AND YOKE TYPE OR BALL FOR CHLORINE SERVICE, FORGED CARBON STEEL	, , ,	*	э.
NOTES:				11	DUCTILE IRON, ANSI A21.51, (AWWA C151 AND MODIFIED PER SECTION 02565), ENDS BELL AND SPIGOT, MECH. JOINTS OR 125 PSI FLGD. (TYPICAL SERVICE - WATER LINES).	DUCTILE IRON AWWA C110 AND MODIFIED PER SECTION 02565, BELL AND SPIGOT JOINT'S (RESTRAINT OR NON-RESTRAINT), MECH CPLING, FLOD OR MECH JTS, 250 PSI (PRESS, RATING) 127-AND SMALLER, 150 PSI, (PRESS, RATING) 147-AND LARGER, WITH 125 PSI ASME B16,1 FLANGES, FOR HIGHER PRESS, RATING, REFER TO METR CATALOG.	GATE: AWWA C500, O-RING SEALS, MECHANICAL JOINT ENDS, CLOW F-5065, BUTTERFLY: AWWA. ECCNETRIC PLUG DEZURIK PEC, CAST IRON OR MILLIKEN 603E. BALL: PRATT OR APCO-WILLAMETTE. AS INDICATED ON DRAWINGS.			_
RAL NOTE OUGH SEVERAL PIPE MATERIAL GROUPS MAY BE D ON THIS SHEET FOR A GIVEN FLUID SERVICE, RACTOR SHALL PROVIDE ONLY THE PIPE MATERIA IP SHOWN ON THE DRAWINGS AND SPECIFIED FOR FLUID SERVICE.	NOTE 10 PIPING MATERIALS SHALL BE IN ACCORDANCE NATIONAL FIRE PROTECTION ASSOCIATION STA	WITH ANDARDS.		12	CAST IRON SOIL, ANSIASTM 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.		<	EM	)
	SCH FOR SPECIAL VALVES SEE SPECIFICATION	IS.		13	NOT USED			– S S S	STE	Ī
: 1 TRIETARY NAMES HAVE BEEN QUOTED FOR TIFICATION PURPOSES ONLY. SUBSTITUTIONS BE PERMITTED SUBJECT TO PROVISIONS OF THE IFICATIONS.	NOTE 12 CHANGE IN PIPING MATERIAL GROUP NUMBER INDICATED THUS: ————			14	STAINLESS STEEL, TYPE 316, ASTM A312, SCHEDULE 40S.	STAINLESS STEEL, TYPE 316, SCREWED, WELDED SLIP-ON FLANGE ASME B16.3, OR SOCKET WELDED FITTINGS SCHEDULE 40S, (SCREWED JTS NOT ALLOWED FOR OZ, OX, LOX SERVICE)	STAINLESS STEEL, BALL, FLANGED: CONTROMATICS SERIES 2801 OR JAMESBURY SERIES 7150, CHECK: LADISH 5275 OR CRANE FIG 377 OR AS SHOWN ON DRAWINGS	ATC	> 2	
3	NOTE 13 FOR PIPE LINING AND COATING, SEE SPECIFICA	ATIONS		15	STAINLESS STEEL, TYPE 316, ASTM A312, SCHEDULE 10S.	STAINLESS STEEL, TYPE 316 WELDED SLIP ON FLG ASME B16.3, OR SOCKET WELDED FITTINGS SCHEDULE 40S, (NO SCREWED JOINTS ALLOWED)	STAINLESS STEEL, AS INDICATED ON DRAWINGS.	ட	$\simeq \geq$	>
GE ALLOWANCE IS AS FOLLOWS:				16	POLYVINYL CHLORIDE, SCHEDULE 80, NORMAL IMPACT. ASTM D1785. (SEE NOTE 18).	POLYVINYL CHLORIDE, SCH 80, NORMAL IMPACT, SOCKET SOLVENT WELD JOINTS, ASTM D2467. SOLVENT SHALL BE COMPATIBLE WITH FLUID SERVICE	POLYVINYL CHLORIDE, BALL, DIAPHRAGM, BUTTERFLY, OR LIFT CHECK: NIBCO/CHEMTROL, MCCANNA-MARPAC, OR GEORGE FISCHER SLOANE.	$ \ge $	TEI P	
PES SO DESIGNATED SHALL SHOW ZERO LEAKAG DR UNBURIED PIPE AND NOT MORE THAN 0.02 ALLON PER HOUR PER INCH DIAMETER PER	SE. EXPOSED PIPING SHALL BE PAINTED IN ACCOR SE WITH SPECIFICATIONS. COLORS TO BE SELECT ENGINEER.	TED BY		17	POLYPROPYLENE, ASTM D4101, SCHEDULE 40, WITH HEAT FUSED JOINTS.	POLYPROPYLENE, SCH 40, DRAINAGE TYPE WITH HEAT FUSED SOCKET JTS.	_	CA	$\leq$ 0	-
PIPES SO DESIGNATED SHALL SHOW ZERO LEAKAG PIPES SO DESIGNATED SHALL SHOW ZERO LEAKAG OR UNBURED PIPE AND NOT MORE THAN 0.02  OF THE TOP BURED PIPE OF THE TOP BURED PIPE OF BURED PIPE OF BURED PIPE OF BURED PIPE OF BURED PIPE SO DESIGNATED SHALL NOT SHOW A LEAKAG PE MORE THAN 0.15 GALLON PER HOUR PER INCH PIPE SO DESIGNATED SHALL NOT SHOW A LOSS OF BURED PIPE OF THE PIPE SO DESIGNATED SHALL NOT SHOW A LOSS OF WACUUM OF MORE THAN 4 INCHES MERCURY OLUMN	GE NOTE 15 FOR SHORT PIPE RUNS, LIME SLURRY PIPING M BE NON-ABRASIVE FLEXBULE RUBBER HOSE AM CONNECT COUPLINGS WITH GROUP NO 1 AT EC	MATERIAL SHALL ID QUICK		18	NOT USED	_	_		≥ ≥	-
PIPES SO DESIGNALED SHALL NOT SHOW A LOSS OF PRESSURE OF MORE THAN 5 PERCENT PIPE SO DESIGNATED SHALL NOT SHOW A LOSS OF VACUUM OF MORE THAN 4 INCHES MERCURY COLUMN	NOTE 16 FOR VALVE ENDS, SEE SPECIFICATIONS.	QUIFMENT.		19	POLYVINYL CHLORIDE PRESSURE PIPE AWWA C900 (4"-12") OR AWWA C905 (14"-48") WITH BELL AND SPIGOT JOINTS.	DUCTILE IRON FITTINGS, 150 PSI, FOR POLYVINYL CHLORIDE PIPE, AWWA C110 CEMENT MORTAR LINED, AWWA C104.	SAME AS GROUP NO. 11.			_
: 3 TELD TEST PROCEDURES AND ADDITIONAL TEST	NOTE 17 ALL RECLAIMED WATER PIPING SHALL BE COLO PURPLE OR AS REQUIRED BY LOCAL CODE.	OR CODED		20	NOT USED	_	_		L	I
UIREMENTS, SEE PIPING SECTION OF SPECIFICATIC E 4 SUBSTITUTIONS UNLESS ACCEPTED BY THE INEER PER THE SPECIFICATIONS.	ONS.  NOTE 18  FOR OUTDOOR EXPOSED PIPING, GROUP NO. 3  RECOMMENDED.	86 IS HIGHLY		21	NOT USED	_	_		OF C	$ egthinspace{1.5em}$
- 5	NOTE 19 PROVIDE DOUBLE CONTAINMENT FOR ALL CHE PER CODE REQUREMENTS.	MICAL PIPING			REINFORCED CONCRETE, ASTM C76, O-RING BELL AND	USE MANHOLES.		ct for:	JRCH	
G GROUP NUMBER SHOWN THUS * SHALL BE LATED. SEE PIPING SECTION OF SPECIFICATIONS INSULATING MATERIALS.	NOTE 20 SIMILAR TO GROUP NO. 16 EXCEPT SCH. 40.			22	SPIGOT JOINTS.  POLYVINYL CHLORIDE, DOUBLE WALL, CORRUGATED,	PVC, ASTM F794 AND ASTM F949.	_		CHI	0
E 6 IC WATER TEST WITH SURFACE 5 FEET ABOVE POINT OF PIPE.	NOTE 21 FOR FIRST STAGE MEMBRANE CONCENTRATE PRESSURE AT 250 PSI, FOR ALL OTHER LINES,	TEST 150 PS <b>I.</b>		23	GRAVITY SEWER PIPE, ASTM F794, F949, BELL AND SPIGOT, PERFORATED (FOR STRUCTURE UNDERDRAIN), NON-PERFORATED (FOR STRUCTURE UNDERDRAIN COLLECTOR).		<u> </u> -		THE TIP	
. 7 CCTION AND TESTING SHALL BE IN ACCORDANCE APPLICABLE PLUMBING CODE.				24	LEAD FREE COPPER, ASTM B88, TYPE K, SOFT TEMPERED WHERE BURIED, HARD TEMPERED WHERE EXPOSED.	LEAD FREE WROUGHT COPPER OR CAST BRONZE, ASME B16,22, SILVER SOLDER JOINT, 150 PSI, OR COMPRESSION FITTINGS. (FOR COMPRESSED AIR PIPING USE 95-5 TIN-ANTIMONY SOLDER)	BRONZE, SILVER SOLDER JOINT, GLOBE: CRANE #1310 OR STOCKHAM B-14T, CHECK: CRANE #1342 OR 36, OR STOCKHAM B-309Y OR B-345, GATE: CRANE #426 OR STOCKHAM B-104 OR B-105.			
8 PPARENT LEAKS UNDER NORMAL OPERATING				25	NOT USED	- Committee of the control of the co		$\dashv \sqsubseteq$	1 , ,	=
: Q				26	SAME AS GROUP NO. 11 (TYPICAL SERVICE - SLUDGE AND SEWAGE LINES)	SAME AS GROUP NO. 11.	ECCENTRIC PLUG, SYNTHETIC RUBBER FACED: DEZURIK PEC, CAST IRON OR MILLIKEN 801, SWING TYPE CHECK: CRANE #383 OR POWELL FIG 559, BALL: PRATT OR APCO-WILLAMETTE.			
TOTION AND TESTING SHALL BE IN ACCORDANCE APPLICABLE NATIONAL FIRE PROTECTION CLATION STANDARDS.				27	POLYVINYL CHLORIDE GRAVITY SEWER PIPE, ASTM D3034, BELL AND SPIGOT.	POLYVINYL CHLORIDE, ANSI/ASTM D3034, BELL AND/OR SPIGOT.	PRATEOR APCO-WILLAMETTE.	$-\parallel \parallel$		
				28	NOT USED	_	_			
				29	POLYETHYLENE PIPE AND TUBING, ASTM D2513, SDR FOR YARD PIPING PER PLUMBING CODE.	HEAT FUSION FITTINGS, PE 3406, PE 2306, PE 2406, OR PE 3406 COMPRESSION TYPE OR OTHER APPROVED JOINTS PER PLUMBING CODE.	POLYETHYLENE BALL VALVES APPROVED BY PLUMBING CODE.			
				30	NOT USED	-	_		1	
				31	HIGH DENSITY POLYETHYLENE (HDPE) ASTM D3350 - SDR AS SPECIFIED.	HDPE THERMAL BUTT-FUSED FLANGE CONNECTIONS AT ALL VALVES AND TRANSITIONS.	<u> </u>			_
				32	NOT USED		_	Proied	ct Number:	-
				33	NOT USED	_	_	Plan S	-6679-130 Series:	)1
				34	NOT USED	_	_	N/A Prope	erty Number:	_
				35	ABS AND PVC COMPOSITE PIPING, ASTM D2680	SOLVENT WELDED JOINTS OR ELASTOMERIC GASKET CONFORMING TO ASTM D 2680	_	502-	-6679	_
				36	CHLORINATED POLYVINYL CHLORIDE (CPVC) SCH. 80, ASTM DI 784 - CLASS 23447-B.	CPVC, SCHEDULE 80, SOCKET AND SOLVENT WELD JOINTS.	BALL: CHEM-AIRE, GLOBE: CRANE #212P OR STOCKHAM B-62 OR B-32,	Sheet	t Title: PE	
				37	NOT USED	_	_	SC	HEDUL	E



toka 22x34\_TB.dwg ----

G-4





#4 TIE/HOOP

VALVE BOX

C-640

**BURIED VALVE INSTALLATION** 

SECTION

VALVE BOX COLLAR

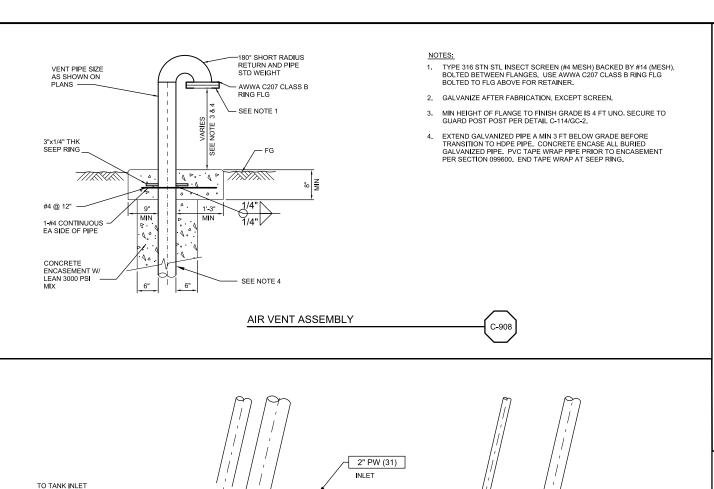
C-641

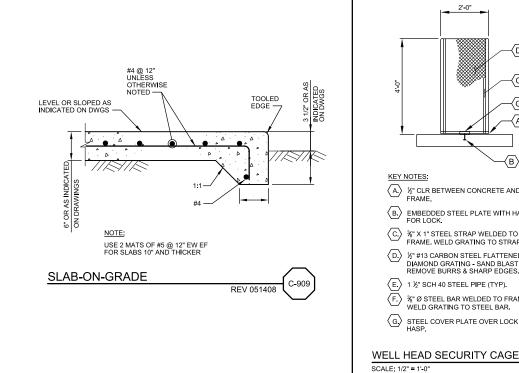
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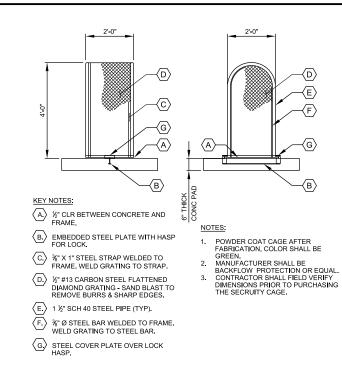
LDS Camp Atoka 22x34 TB.dwg - --- - --

Checked: M CHAMBERS

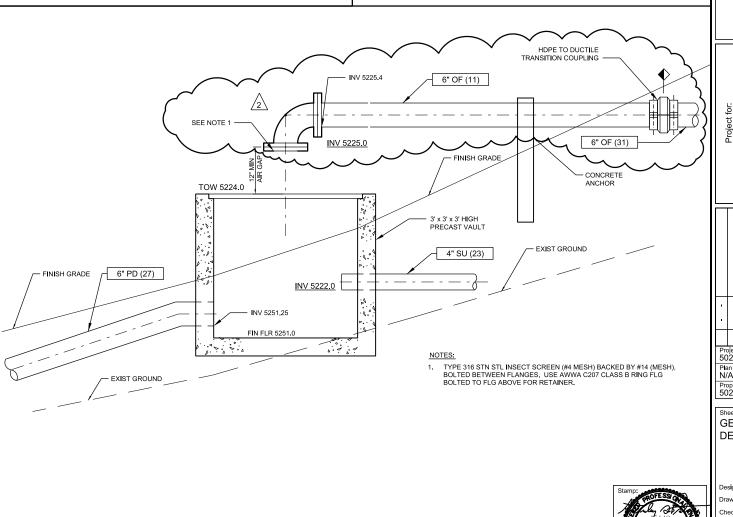
GC-2







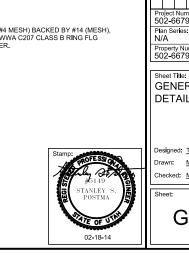
C-912



C-911

**BLOWOFF BOX DETAIL** 

SCALE: 3/4" = 1'-0"



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CAMP ATOKA WATER SYSTEM IMPROVEMENTS

THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

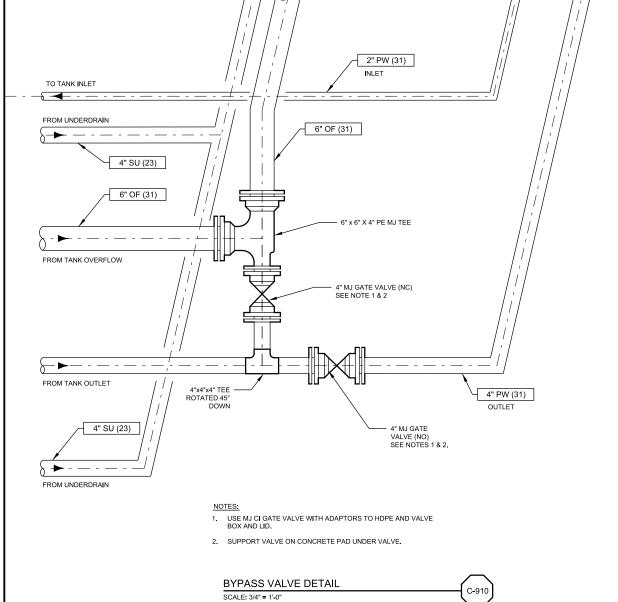
Project Number: 502-6679-13010101

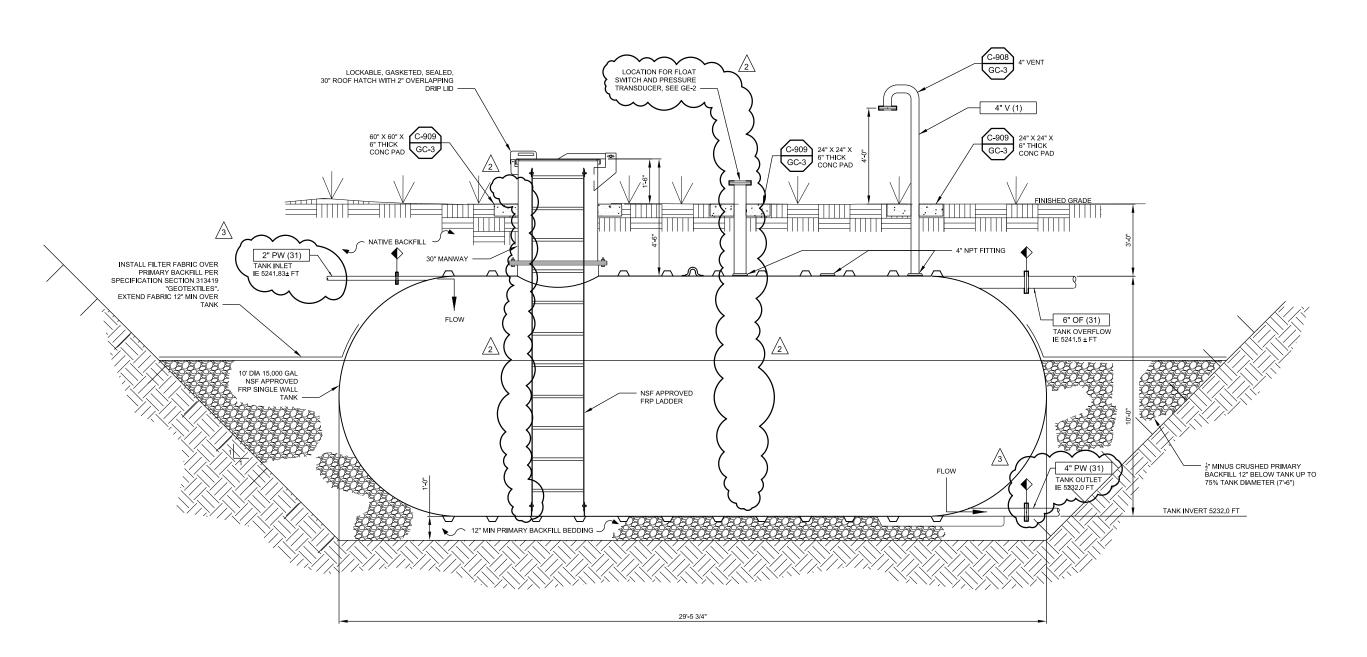
Plan Series: N/A Property Number 502-6679

GENERAL CIVIL DETAILS - III

Designed: T MEHRABAN rawn: M CARTER Checked: M CHAMBERS

GC-3





#### NOTES:

- PRIMARY BACKFILL SHALL BE CLEAN, FREE FLOWING, AND FREE OF DIRT, SAND, LARGE ROCKS, ROOTS, ORGANIC MATERIAL, DEBRIS, ICE, AND SNOW.
- 2. PRIMARY BACKFILL SHALL BE 1/2" MINUS CRUSHED STONE.
- 3. NATIVE BACKFILL MUST BE CLEAN, FREE FLOWING, FREE OF LARGE ROCKS, ROOTS, ORGANIC MATERIAL, DEBRIS, ICE, AND SNOW. BACKFILL MATERIAL SHALL NOT BE FROZEN MATERIAL AT ANY TIME DURING INSTALLATION.
- 4. TAPE WRAP ALL BURIED STEEL PIPE.



C-911

I M M

CAMP ATOKA WATER SYSTEM IMPROVEMENTS

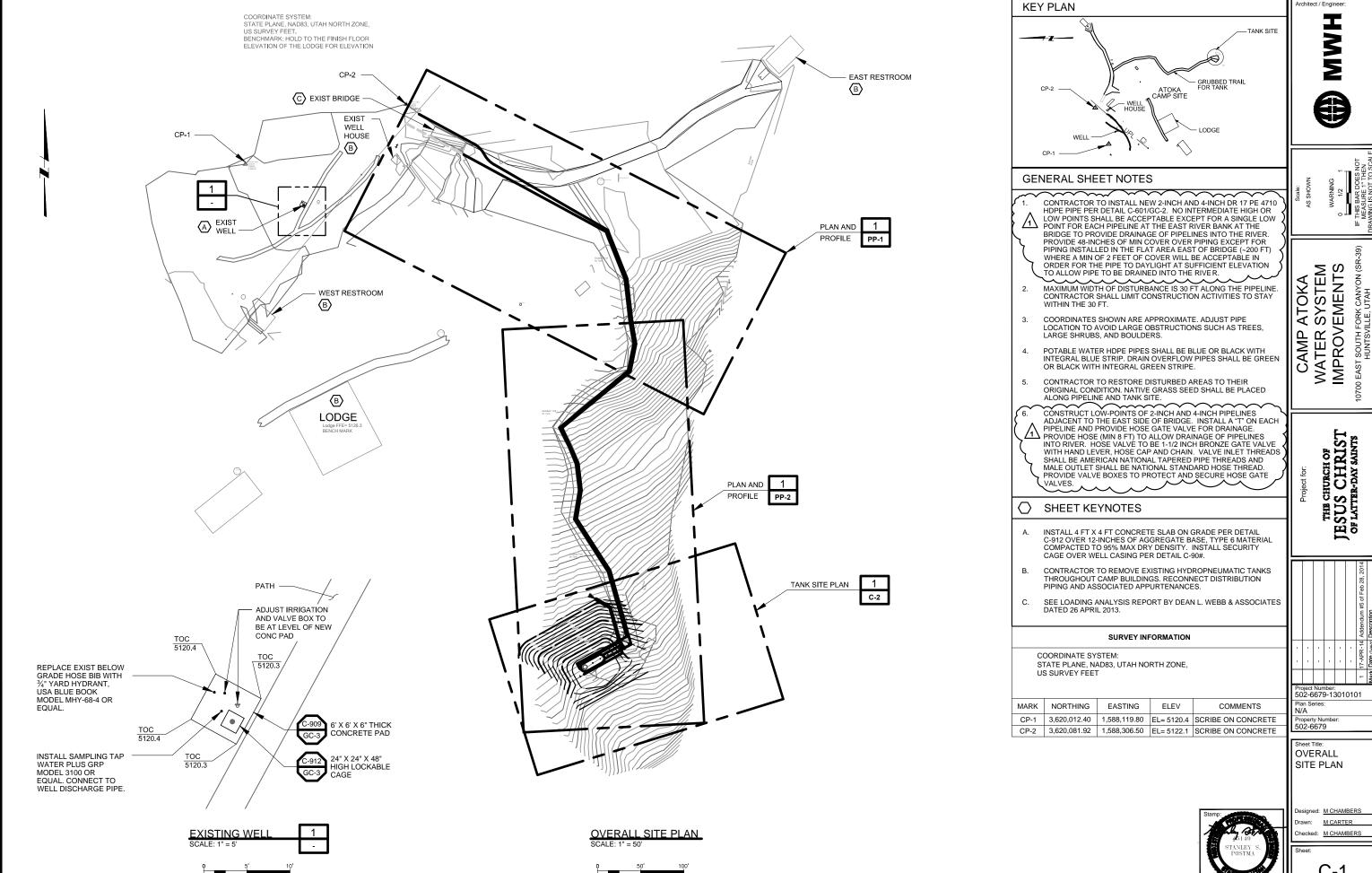
THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

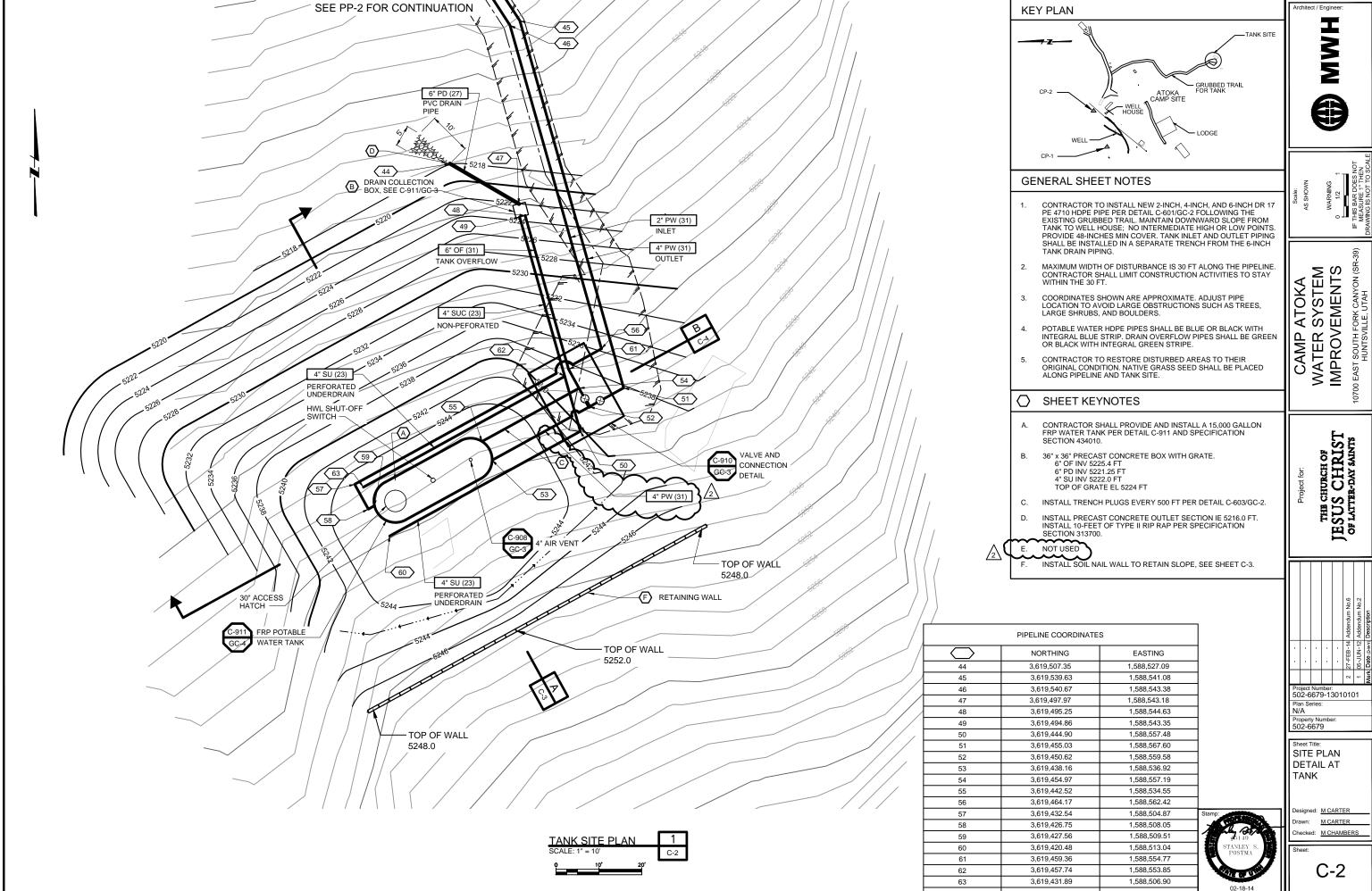
Project Number: 502-6679-13010101 Plan Series: N/A

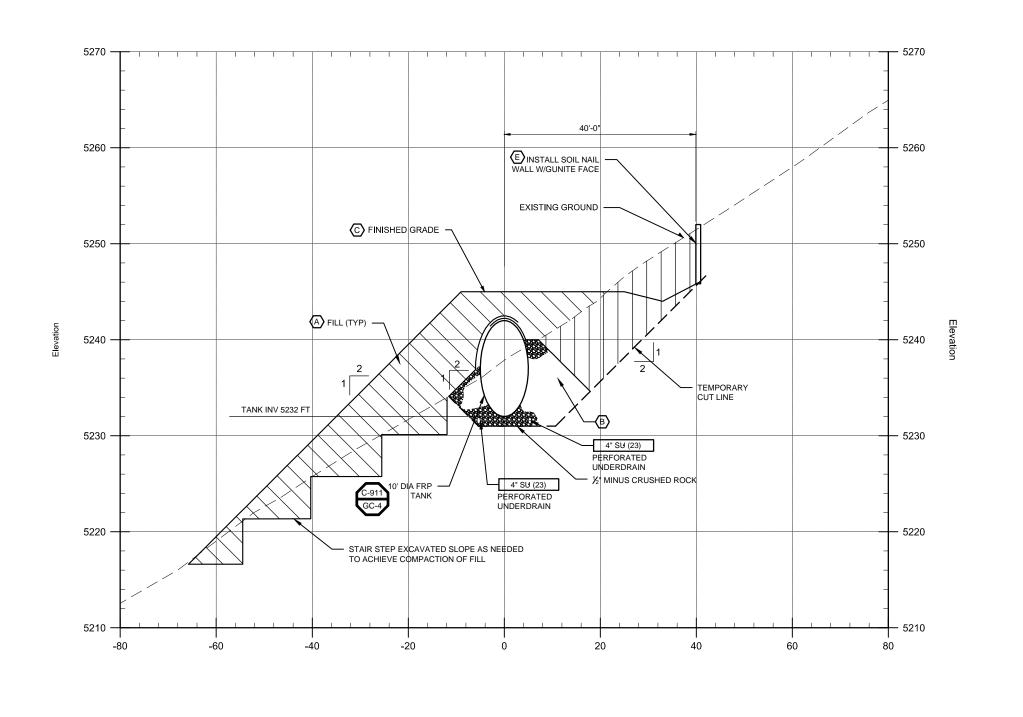
Property Number 502-6679 GENERAL CIVIL DETAILS - V

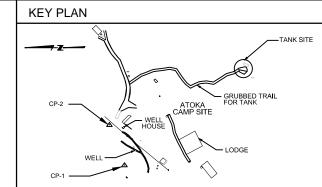
Designed: TMEHRABAN Drawn: M CARTER Checked: M CHAMBERS

GC-4









#### **GENERAL SHEET NOTES**

1. SEE SHEET GC-4 FOR FRP TANK DETAILS.

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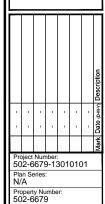
- BACKFILL WITH IMPORTED MATERIAL PER SPECIFICATION SECTION 313000 EARTHWORK.
- INSTALL FILTER FABRIC OVER PRIMARY BACKFILL (½" MINUS CRUSHED STONE) PER SPECIFICATION SECTION 313419 GEOTEXTILES. EXTEND FABRIC 12" MIN OVER TANK.
- CONTRACTOR TO RESTORE DISTURBED AREAS TO THEIR ORIGINAL CONDITION. NATIVE GRASS SEED SHALL BE PLACED ALONG PIPELINE AND TANK SITE.
- INSTALL 6 OZ/SY NON-WOVEN GEOTEXTILE FILTER FABRIC SOCK AROUND PERFORATED UNDERDRAINS PER SPECIFICATION 313419 GEOTEXTITLES.
- INSTALL SOIL NAIL WALL WITH GUNITE FACE. CONTRACTOR TO SUBMIT DESIGN TO ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.

I S S

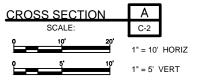


CAMP ATOKA
WATER SYSTEM
IMPROVEMENTS
10700 EAST SOUTH FORK CANYON (SR-3
HUNTSVILLE, UTAH

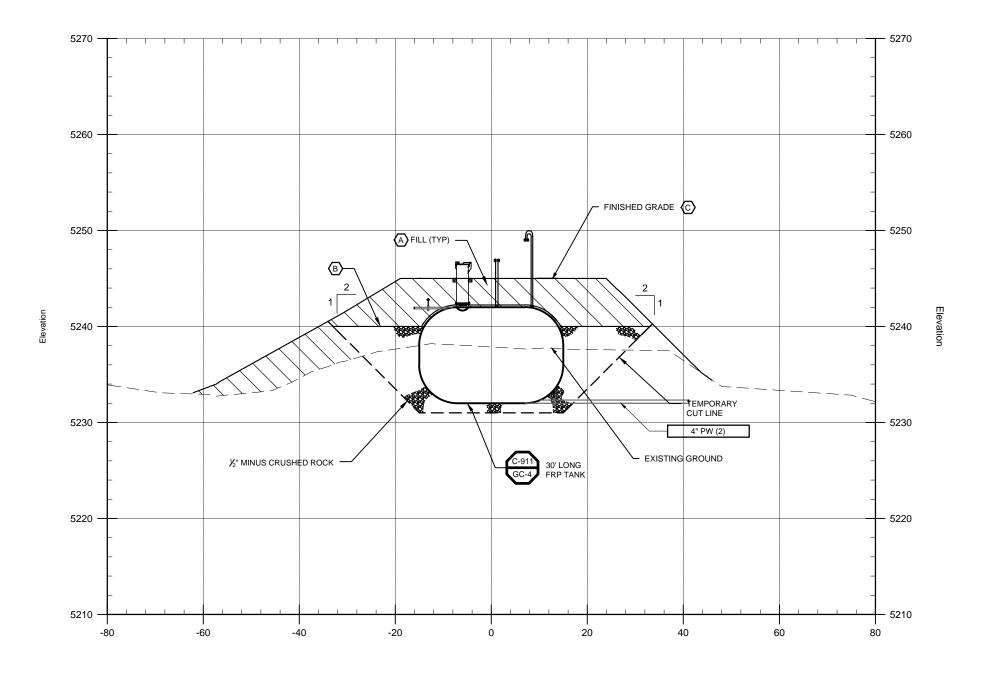
THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

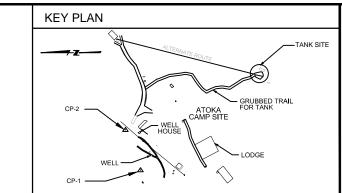


CROSS SECTION A



#### **Cross Section**





#### GENERAL SHEET NOTES

1. SEE SHEET GC-4 FOR FRP TANK DETAILS.

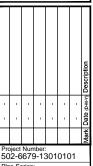
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- BACKFILL WITH IMPORTED MATERIAL PER SPECIFICATION SECTION 31300 EARTHWORK.
- INSTALL FILTER FABRIC OVER PRIMARY BACKFILL (½" MINUS CRUSHED STONE) PER SPECIFICATION SECTION 313419 GEOTEXTILES. EXTEND FABRIC 12" MIN OVER TANK.
- CONTRACTOR TO RESTORE DISTURBED AREAS TO THEIR ORIGINAL CONDITION. NATIVE GRASS SEED SHALL BE PLACED ALONG PIPELINE AND TANK SITE.

I N N



CAMP ATOKA
WATER SYSTEM
IMPROVEMENTS
10700 EAST SOUTH FORK CANYON (SR-39
HUNTSWILLE, UTAH

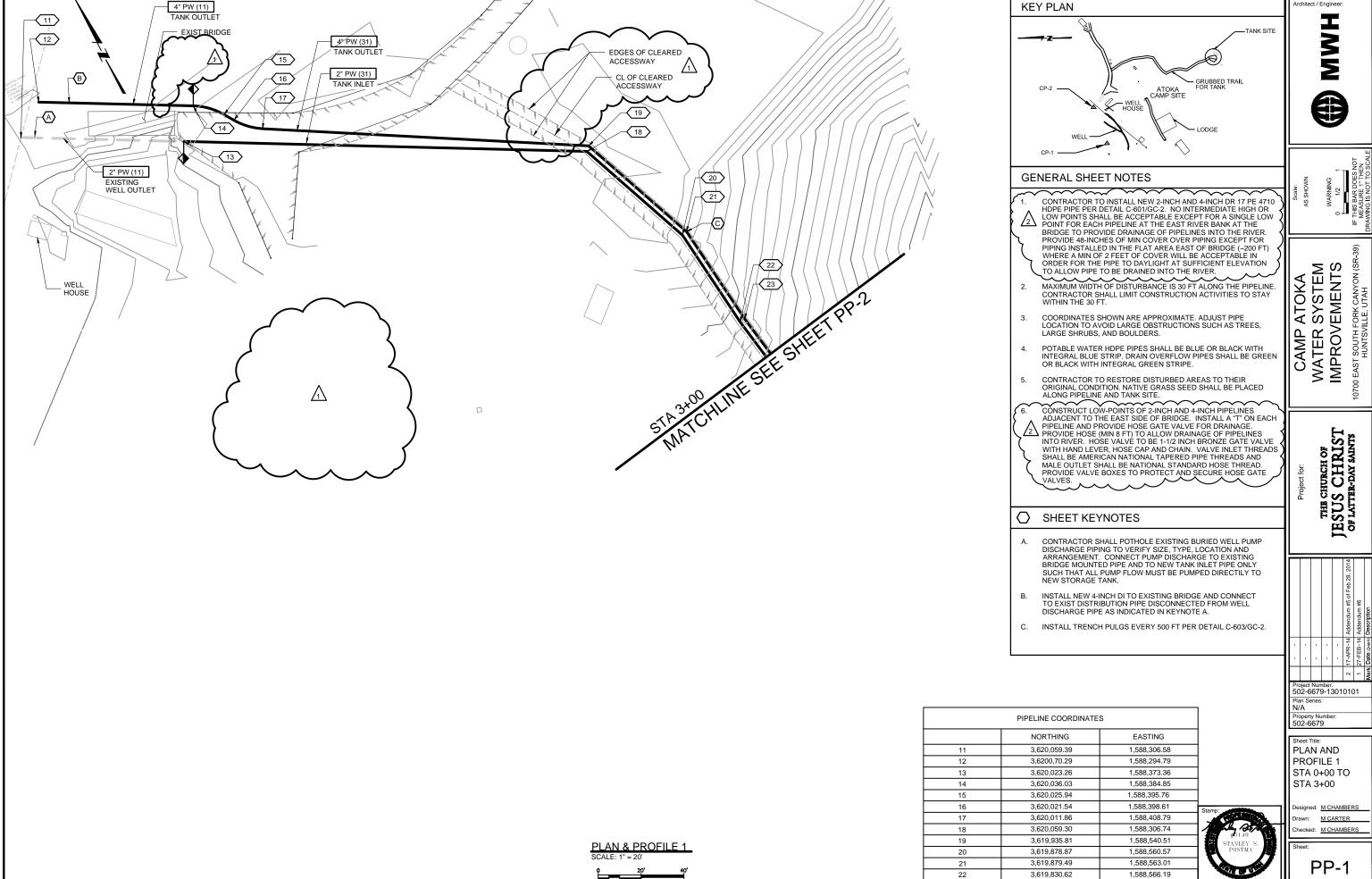


Property Numbe 502-6679

Sheet Title: CROSS SECTION B

**CROSS SECTION** C-2 1" = 10' HORIZ





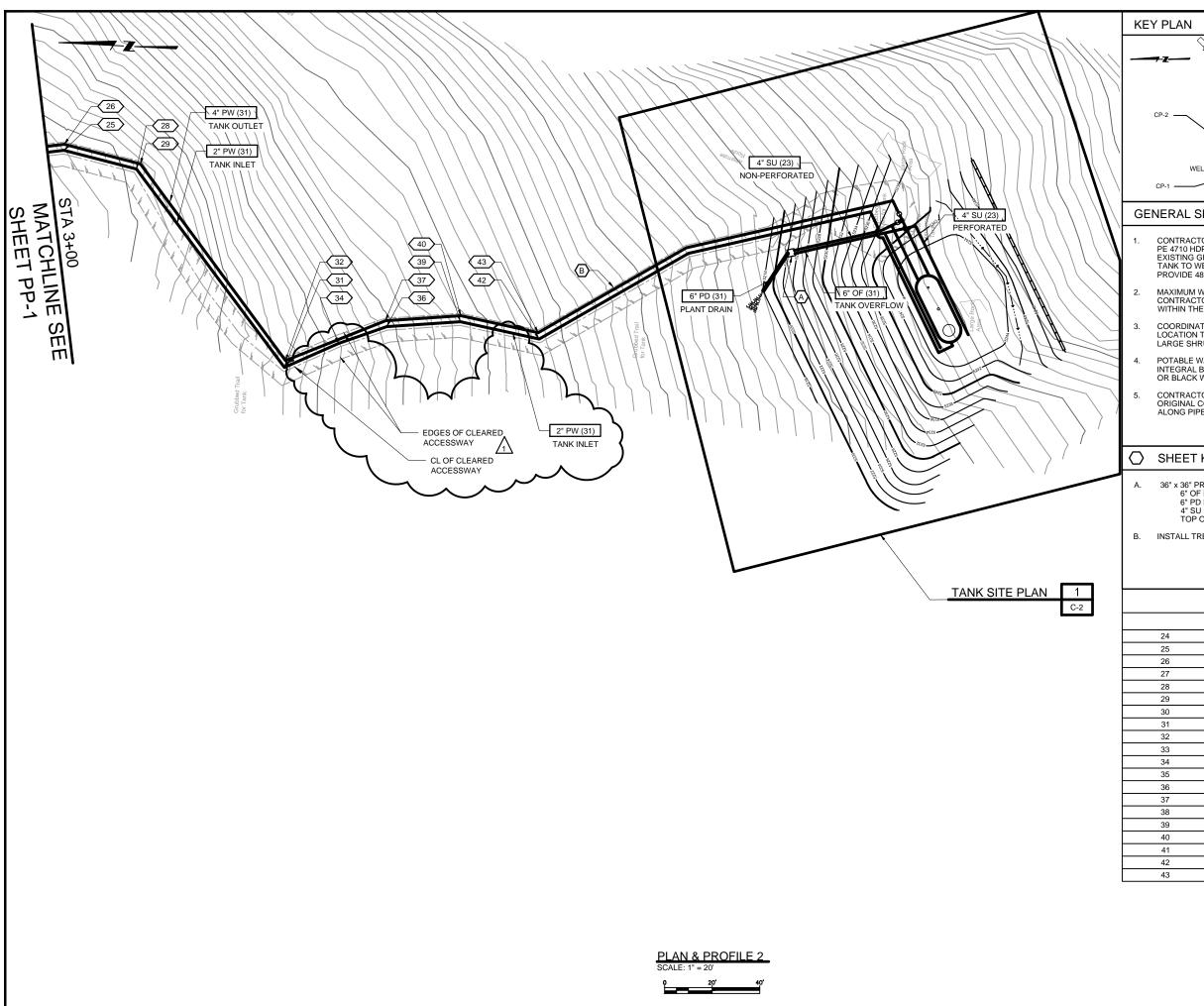
PP-1

3,619,830.97

23

1,588,568.66

02-18-14



GRUBBED TRAIL FOR TANK

#### **GENERAL SHEET NOTES**

- CONTRACTOR TO INSTALL NEW 2-INCH, 4-INCH, AND 6-INCH DR 17 PE 4710 HDPE PIPE PER DETAIL C-601/GC-2 FOLLOWING THE EXISTING GRUBBED TRAIL. MAINTAIN DOWNWARD SLOPE FROM TANK TO WELL HOUSE NO INTERMEDIATE HIGH OR LOW POINTS. PROVIDE 48-INCHES MIN COVER.
- MAXIMUM WIDTH OF DISTURBANCE IS 20 FT ALONG THE PIPELINE. CONTRACTOR SHALL LIMIT CONSTRUCTION ACTIVITIES TO STAY WITHIN THE 20 FT.
- COORDINATES SHOWN ARE APPROXIMATE. ADJUST PIPE LOCATION TO AVOID LARGE OBSTRUCTIONS SUCH AS TREES, LARGE SHRUBS, AND BOULDERS.
- POTABLE WATER HDPE PIPES SHALL BE BLUE OR BLACK WITH INTEGRAL BLUE STRIP. DRAIN OVERFLOW PIPES SHALL BE GREEN OR BLACK WITH INTEGRAL GREEN STRIPE.
- CONTRACTOR TO RESTORE DISTURBED AREAS TO THEIR ORIGINAL CONDITION. NATIVE GRASS SEED SHALL BE PLACED ALONG PIPELINE AND TANK SITE.

#### SHEET KEYNOTES

- 36" x 36" PRECAST CONCRETE BOX WITH GRATE. 6" OF INV 5226.4 FT
  - 6" PD INV 5221.5 FT 4" SU INV 5222.0 FT TOP OF GRATE EL 5225 FT
- B. INSTALL TRENCH PLUGS EVERY 500 FT PER DETAIL C-603/GC-2.

PIPELINE COORDINATES					
	NORTHING	EASTING			
24	NOT USED	NOT USED			
25	3,619,803.78	1,588,570.83			
26	3,619,803.74	1,588,573.37			
27	NOT USED	NOT USED			
28	3,619,772.89	1,588,564.55			
29	3,619,771.37	1,588,566.79			
30	NOT USED	NOT USED			
31	3,619,706.54	1,588,484.56			
32	3,619,706.27	1,588,487.50			
33	NOT USED	NOT USED			
34	3,619,684.42	1,588,495.77			
35	NOT USED	NOT USED			
36	3,619,664.58	1,588,503.87			
37	3,619,665.21	1,588,506.31			
38	NOT USED	NOT USED			
39	3,619,633.77	1,588,507.52			
40	3,619,633.71	1,588,510.04			
41	NOT USED	NOT USED			
42	3,619,600.32	1,588,501.97			
43	3,619,600.86	1,588,504.60			



PROFILE B STA 3+00 TO STA 6+68.40

esigned: M CHAMBERS Drawn: M CARTER Checked: M CHAMBERS

Project Number: 502-6679-13010101 Plan Series: N/A Property Number 502-6679 Sheet Title: PLAN AND

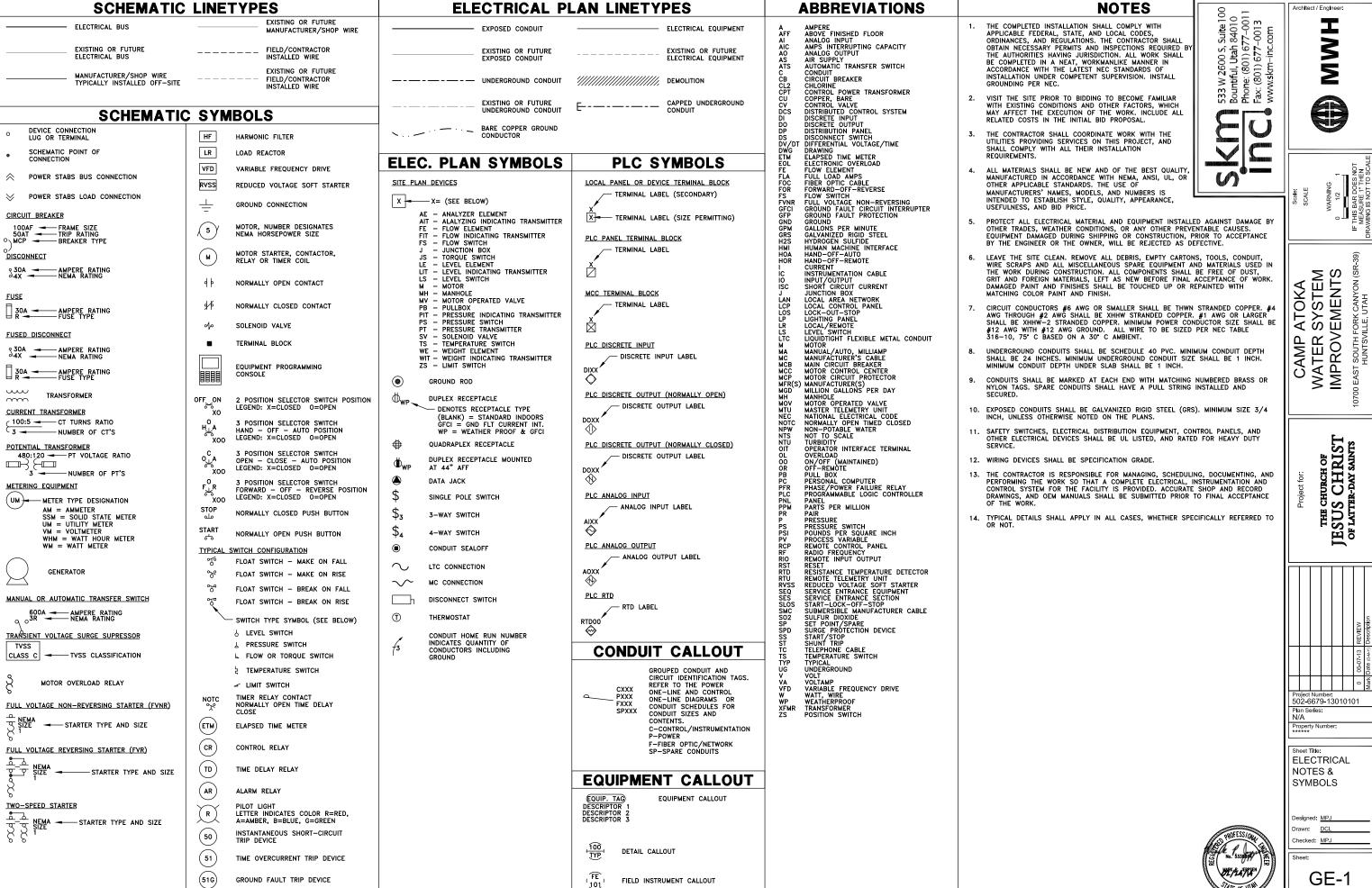
3 2

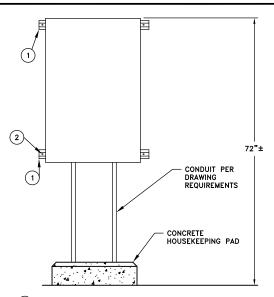
CAMP ATOKA WATER SYSTEM IMPROVEMENTS

10700 EAST SOUTH FORK CANYON (SR HUNTSVILLE, UTAH

JESUS CHRIST OF LATTER-DAY SAINTS

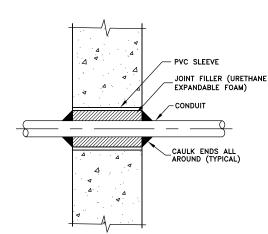
PP-2





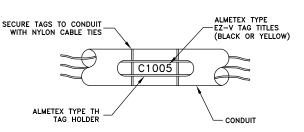
- 1 STAINLESS STEEL 1-5/8 X 1-5/8 UNISTRUT CHANNEL
- 1/2"x3" SS ANCHOR BOLT OR LAG BOLT WITH WASHER ANCHORED TO WALL (EVERY 18" 2 MINIMUM)

## WALL MOUNTED PANEL TYP SCALE: NONF SCALE: NONE

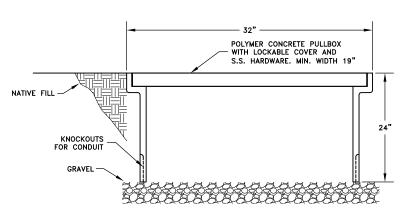


#### **CONDUIT PENETRATION AT NEW WALL OR SLAB**

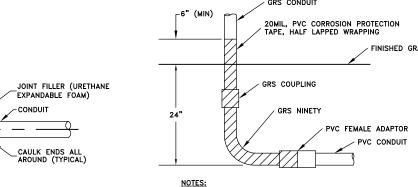
SCALE: NONE



**CONDUIT MARKING SYSTEM** 

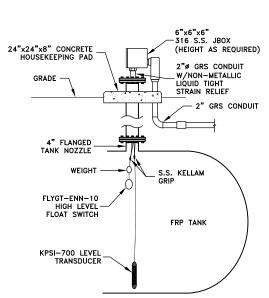


# ELECTRICAL PULLBOX DETAIL



- 24" DIMENSION DOES NOT APPLY. CONDUITS SHALL BE INSTALLED BETWEEN REBAR MATS OR UNDER A SINGLE REBAR
- 2. IN CORROSIVE AREAS, PVC COATED GRS SHALL BE USED.

# SCALE: NONE



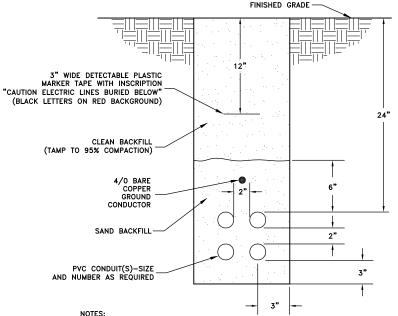
### PRESSURE TRANSDUCER

DETAIL
TYP SCALE: NON-F

**CONDUIT PENETRATION AT** 

**EXISTING WALL OR SLAB** 

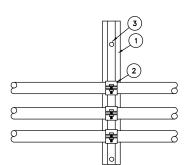
SCALE: NONE



NOTES:
DIMENSIONS ARE MINIMUM.

THE GROUND CONDUCTOR SHALL RUN CONTINUOUSLY THROUGH MANHOLES AND PULL BOXES AND SHALL CONTINUE FROM THE DUCTBANK INTO THE ELECTRICAL EQUIPMENT OR BUILDING GROUNDING SYSTEM AND SHALL BE BONDED TO EACH RIDGID METAL CONDUIT. BOND CONDUCTORS TO BE SOLID COPPER #10 AWG OR LARGER AS REQUIRED BY THE NEC.

#### **DIRECT BURIED CONDUIT** SCALE: NONE



- 1 UNISTRUT P1000 CHANNEL
- 2 UNISTRUT CONDUIT STRAP
- 3/8"x3-1/2" ANCHOR BOLT GROUTED INTO CONCRETE (1 PER FOOT 2 MINIMUM)

**EXPOSED SURFACE CONDUIT** SCALE: NONE

STAINLESS STEEL



533 W 2600 S, Suite 10 Bountiful, Utah 84010 Phone: (801) 677–001 Fax: (801) 677–0013 www.skm-inc.com 

CAMP ATOKA WATER SYSTEM IMPROVEMENTS

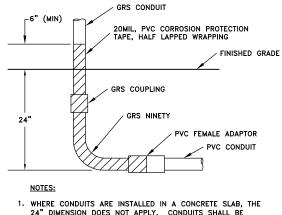
THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

Project Number: 502-6679-13010101 Plan Series: N/A Property Numbe

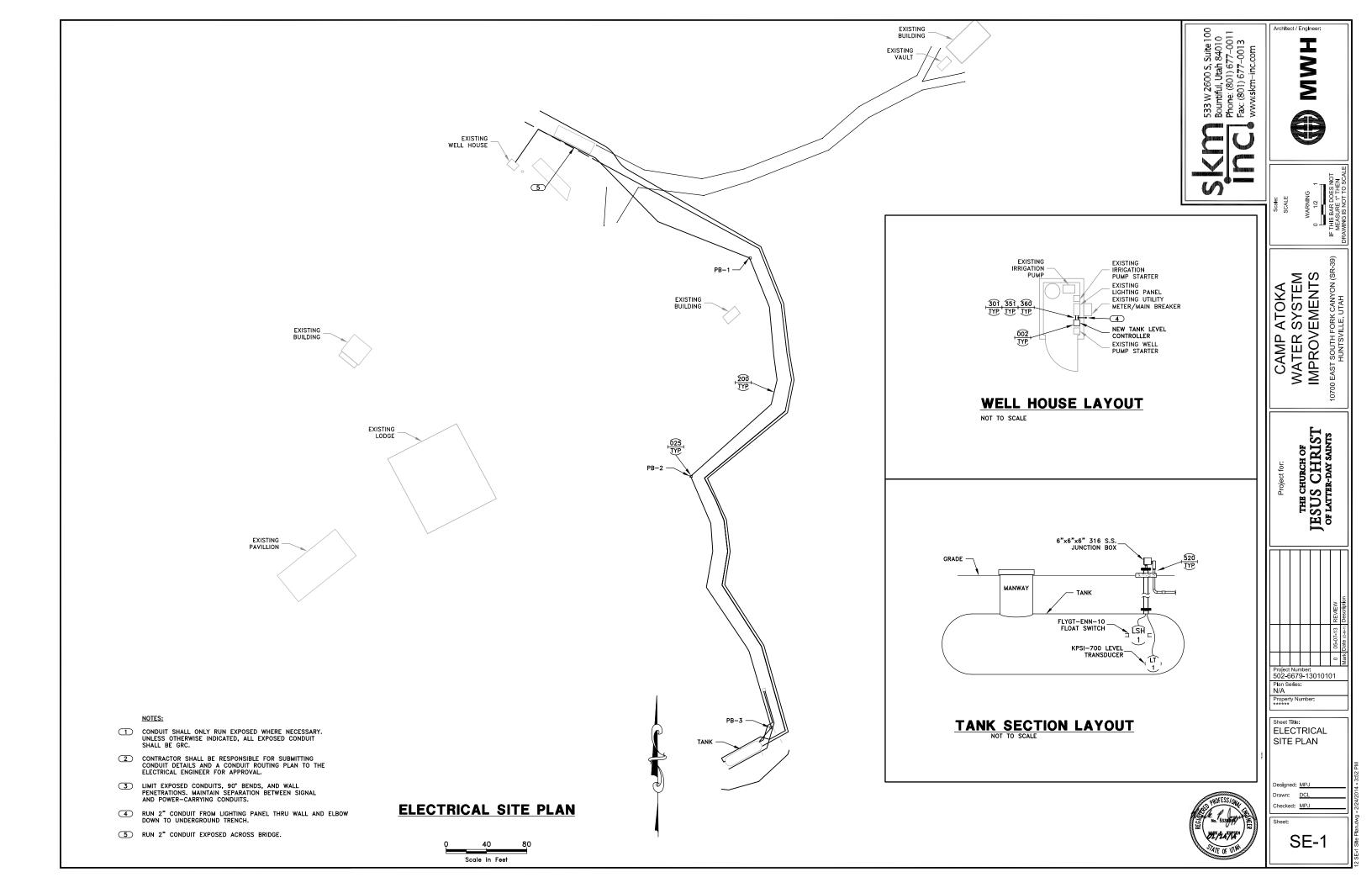
ELECTRICAL DETAILS

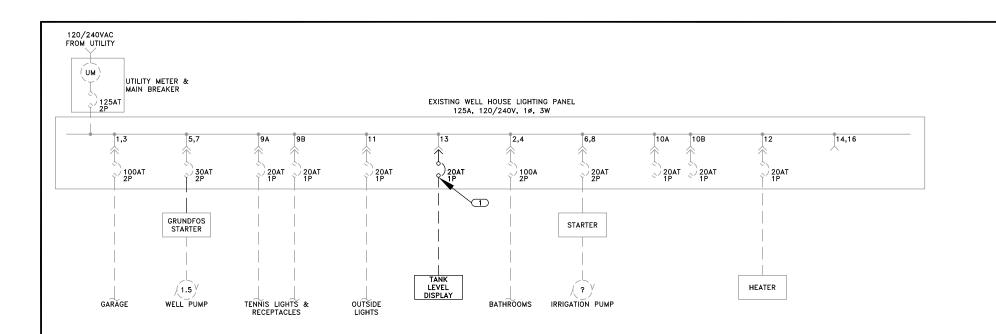
Designed: MP. Drawn: DCL Checked: MPJ

GE-2

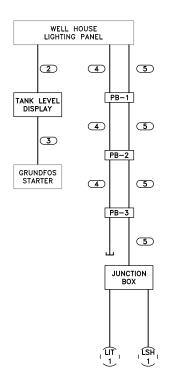


GRS STUB UP DETAIL





#### **ONELINE**



NOTES:

1 INSTALL NEW BREAKER AS INDICATED.

3/4" CONDUIT - 2 #12 W/ #12 GND

3 3/4" CONDUIT - 2 #14

2" CONDUIT - SPARE

5 2" CONDUIT - 2 #14, 1 PAIR TW/SHD #16

CONDUIT DEVELOPMENT



SCALE
ARNING
AR DES NOT
BE ATTACK
ARDES NOT
BE ATTACK
ARD
BE

WARNING
0 1/2 1
1 THIS BAR DOES NO
MFASUIRF 1"THEN

IMPROVEMENTS

10700 EAST SOUTH FORK CANYON (SR-39)
HUNTSVILLE, UTAH

PRAWMENTSVILLE, UTAH

CAMP ATOKA WATER SYSTEM IMPROVEMENTS

THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

Project Number: 502-6679-13010101

Plan Saries:
N/A
Property Number:
Sheet Title:
ELECTRICAL
ONELINE &
CONDUIT

DEVELOPMENT

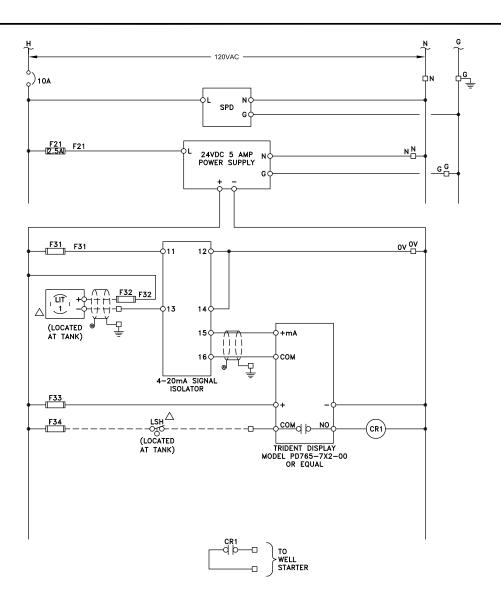
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Drawn: DCL

Drawn: DCL
Checked: MPJ

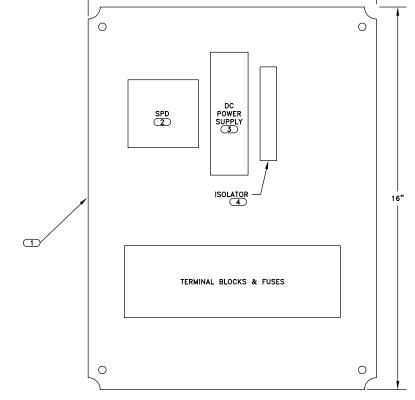
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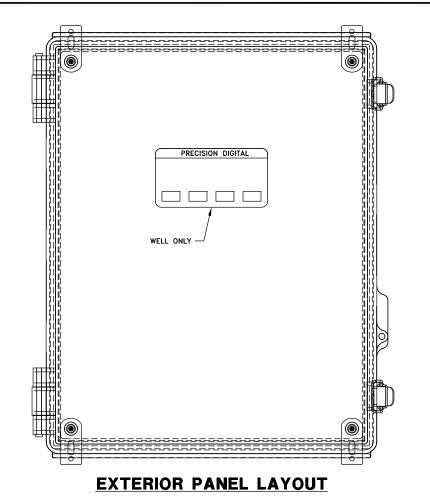
E-1

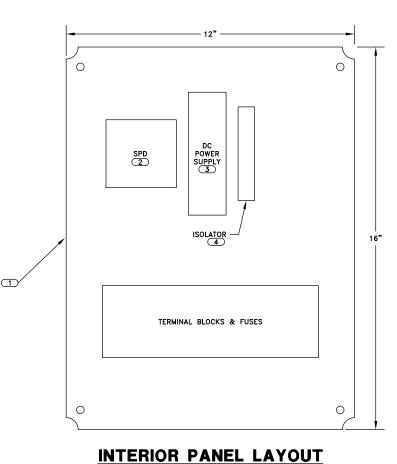




#### LEVEL CONTROL PANEL AT WELL







CAMP ATOKA WATER SYSTEM IMPROVEMENTS

THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

Project Number: 502-6679-13010101

Sheet Title: ELECTRICAL SCHEMATICS & PANEL LAYOUT

E-2

PANEL SHALL BE NONMETALLIC NEMA 4X, HOFFMAN MODEL E453520PPG, OR EQUAL

3 PHOENIX CONTACT MODEL 2866310

ACROMAG 631T SIGNAL ISOLATOR