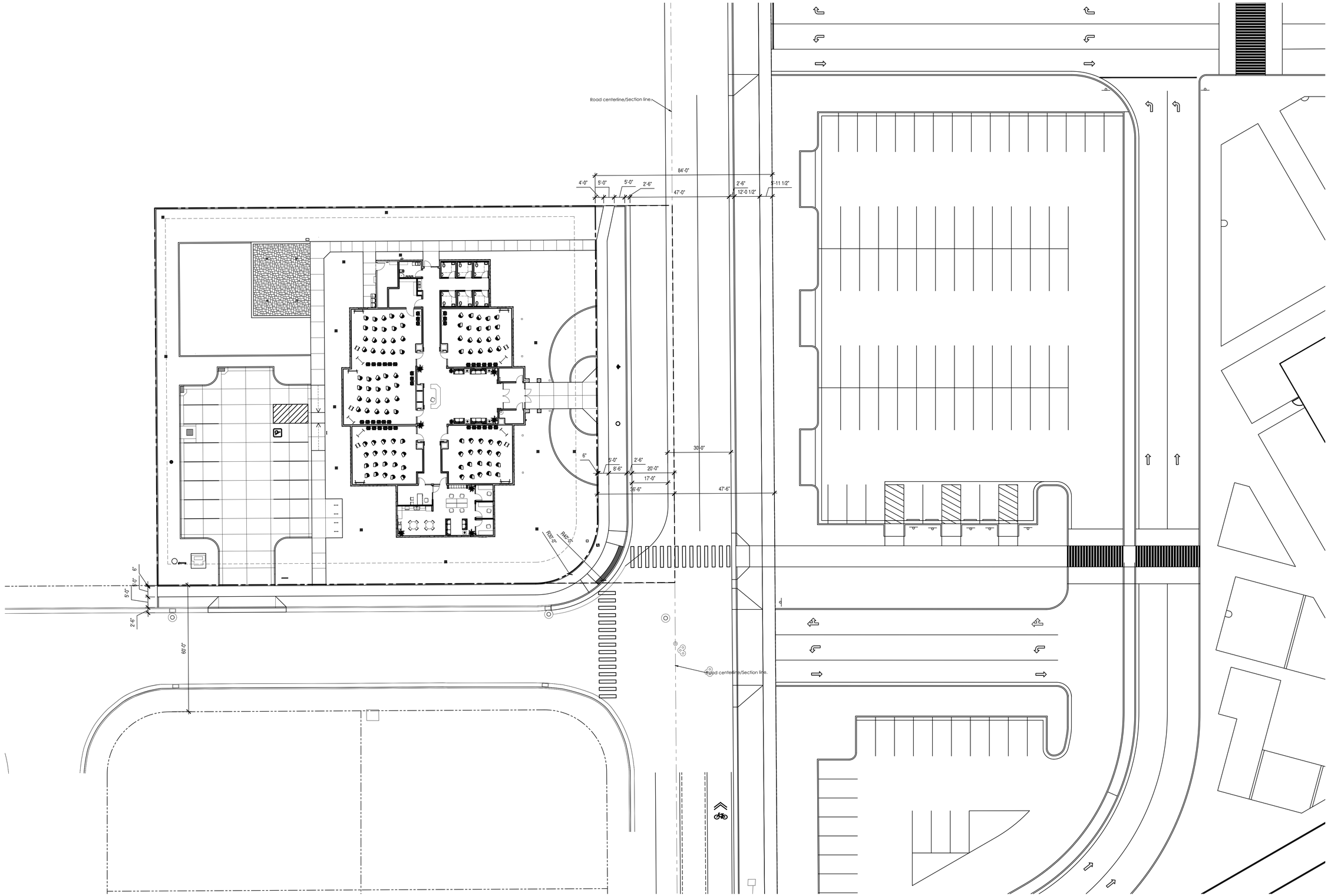

1 Street Plan

Scale: 1" = 20'-0"

Printed: 9 Apr 2024 3:28 PM

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Phone 801.571.0010
Fax 801.571.0303
Toll Free 888.571.0010
65 East Wadsworth Park Drive
Suite 205 Draper, Utah 84020

LICENSED ARCHITECT
Lafe Theodore Harris
6023899-0301
3 Apr 2024
STATE OF UTAH

THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

Tooele UT Deseret Peak Sr Seminary

Approximately 2234 North Berra Boulevard, Tooele, Utah
40.56694, -112.300347

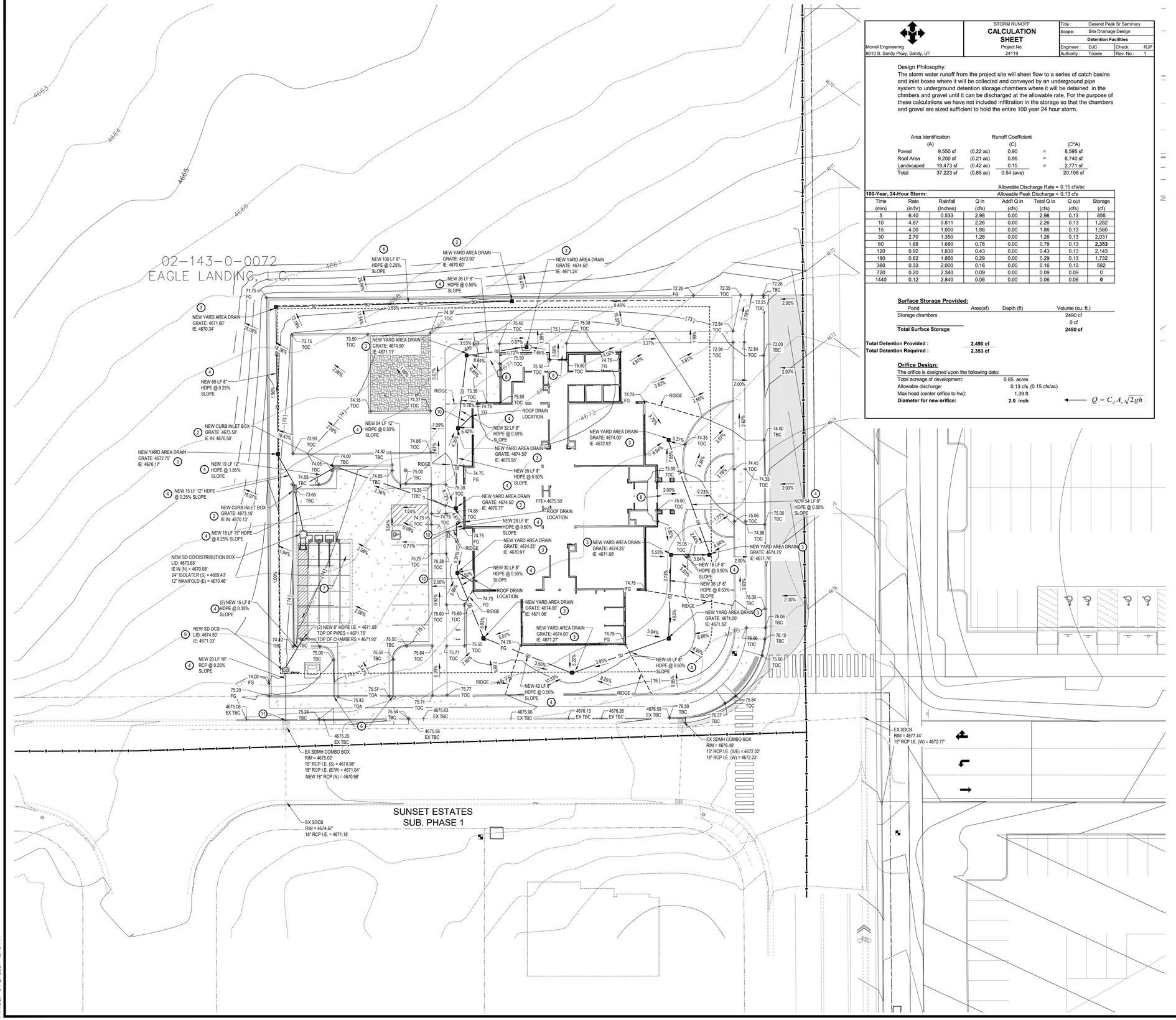
Date:	3 Apr 2024
BHD #:	2326
County Parcel:	02-143-0-0115
Plan Series:	Custom SCR
Owner #:	501-3450

Drawing Issue and Revision Schedule

#	Date	Description
1	3 Apr 2024	Bid Documents

Street Plan

C120



Mcneil Engineering
8610 S. Sandy Pkwy, Sandy, UT

STORM RUNOFF
CALCULATION SHEET
Project No. 24119

Title :	Deseret Peak Sr Seminary		
Scope :	Site Drainage Design		
	Detention Facilities		
Engineer :	DJC	Check:	RJP
Authority :	Tooele	Rev. No.:	1

Design Philosophy:
The storm water runoff from the project site will sheet flow to a series of catch basins and inlet boxes where it will be collected and conveyed by an underground pipe system to underground detention storage chambers where it will be detained in the chmbers and gravel until it can be discharged at the allowable rate. For the purpose of these calculations we have not included infiltration in the storage so that the chambers and gravel are sized sufficient to hold the entire 100 year 24 hour storm.

Area Identification	(A)		Runoff Coefficient (C)		(C*A)
Paved	9,550 sf	(0.22 ac)	0.90	=	8,595 sf
Roof Area	9,200 sf	(0.21 ac)	0.95	=	8,740 sf
Landscaped	18,473 sf	(0.42 ac)	0.15	=	2,771 sf
Total	37,223 sf	(0.85 ac)	0.54 (ave)		20,106 sf

Allowable Discharge Rate = 0.15 cfs/ac

100-Year, 24-Hour Storm: Allowable Peak Discharge = 0.13 cfs

Time (min)	Rate (in/hr)	Rainfall (Inches)	Q in (cfs)	Addl Q in (cfs)	Total Q in (cfs)	Q out (cfs)	Storage (cf)
5	6.40	0.533	2.98	0.00	2.98	0.13	855
10	4.87	0.811	2.26	0.00	2.26	0.13	1,282
15	4.00	1.000	1.86	0.00	1.86	0.13	1,560
30	2.70	1.350	1.26	0.00	1.26	0.13	2,031
60	1.68	1.680	0.78	0.00	0.78	0.13	**2,353**
120	0.92	1.830	0.43	0.00	0.43	0.13	2,143
180	0.62	1.860	0.29	0.00	0.29	0.13	1,732
360	0.33	2.000	0.16	0.00	0.16	0.13	582
720	0.20	2.340	0.09	0.00	0.09	0.09	0
1440	0.12	2.840	0.06	0.00	0.06	0.06	**0**

Surface Storage Provided:

Pond	Area(sf)	Depth (ft)	Volume (cu. ft.)
Storage chambers			2490 cf
			0 cf
Total Surface Storage			**2490 cf**

Total Detention Provided : 2,490 cf
Total Detention Required : 2,353 cf

Orifice Design:
The orifice is designed upon the following data:

Total acreage of development:	0.85 acres
Allowable discharge:	0.13 cfs (0.15 cfs/ac)
Max head (center orifice to hw):	1.39 ft
Diameter for new orifice:	**2.0 inch**

$$Q = C_d A_o \sqrt{2gh}$$

NORTH
SCALE: 1" = 20'
0 10' 20' 40' 60'

GENERAL NOTES:

SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE SOILS REPORT THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REPLACING ALL SOFT, YIELDING OR UNSUITABLE MATERIALS AND REPLACING WITH SUITABLE MATERIALS AS SPECIFIED IN THE SOILS REPORT. ALL EXCAVATED OR FILLED AREAS SHALL BE COMPACTED TO 95% OF MODIFIED PROCTOR MAXIMUM DENSITY PER ASTM TEST D-1557 EXCEPT UNDER BUILDING FOUNDATION WHERE IT SHALL BE 98% MIN. OF MAXIMUM DENSITY. MOISTURE CONTENT AT TIME OF PLACEMENT SHALL NOT EXCEED 2% ABOVE NOR 3% BELOW OPTIMUM. CONTRACTOR SHALL SUBMIT A COMPACTION REPORT PREPARED BY A QUALIFIED REGISTERED SOILS ENGINEER, VERIFYING THAT ALL FILLED AREAS AND SUBGRADE AREAS WITHIN THE BUILDING PAD AREA AND AREAS TO BE PAVED, HAVE BEEN COMPACTED IN ACCORDANCE WITH THESE PLANS & SPECS AND THE RECOMMENDATIONS SET FORTH IN THE SOILS REPORT.

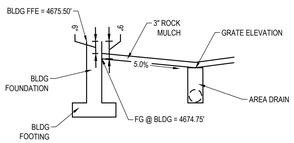
THE CONTRACTOR IS TO USE BEST MANAGEMENT PRACTICES FOR PROVIDING EROSION CONTROL FOR CONSTRUCTION OF THIS PROJECT. SPECIFIC DETAILS SHOWN ON SHEET C2.02 SHALL BE USED IN COMBINATION WITH OTHER ACCEPTED LOCAL PRACTICES.

EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. IT SHALL BE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF THOSE UTILITIES SHOWN ON THESE PLANS OR INDICATED IN THE FIELD BY LOCATING SERVICES. ANY ADDITIONAL COSTS INCURRED AS A RESULT OF CONTRACTOR'S FAILURE TO VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION IN THEIR VICINITY SHALL BE BORNE BY THE CONTRACTOR AND ASSUMED INCLUDED IN THE CONTRACT.

KEYED NOTES:

PROVIDE, INSTALL AND/OR CONSTRUCT THE FOLLOWING PER THE SPECIFICATIONS GIVEN OR REFERENCED AND THE DETAILS NOTED AND AS SHOWN ON THE CONSTRUCTION DRAWINGS:

1. GRADE SITE TO ELEVATIONS AND CONTOURS SHOWN ON PLAN.
2. STORM DRAIN CURB INLET WITH HEAVY DUTY BICYCLE SAFE GRATE, PER STANDARD CHURCH DETAIL, SEE DETAIL 'M', SHEET C501.
3. 12" SQUARE SECURABLE NYLOPLAST YARD DRAIN, SEE DETAIL 'C', SEE SHEET C501.
4. STORM DRAIN PIPE. SEE PLAN FOR LENGTH, SIZE, TYPE AND SLOPE. SEE APWA PLANS NO. 381 & 382 FOR TRENCHING DETAIL.
5. ROOF DRAIN LOCATION.
6. TAPER LAST 3' OF CURB TO MATCH SIDEWALK HEIGHT, PER STANDARD CHURCH DETAIL.
7. STORMTECH SC-740 CHAMBERS OR EQUIVALENT SYSTEM APPROVED PRIOR TO BIDDING. SYSTEM TO OUTLET CONTROL STRUCTURE AS SHOWN ON PLANS ALL PROVIDED BY THE CONTRACTOR. STORMTECH CHAMBER HAS DETENTION OF 2,490 C.F. REQUIRED DETENTION = 2,353 C.F. SEE DETAIL 'N', SHEET C501. FULL SHOP DRAWINGS PROVIDED BY MANUFACTURER ARE REQUIRED PRIOR TO BIDDING AND CONSTRUCTION.
8. LANDING AREAS TO HAVE 2% MAXIMUM SLOPE AWAY FROM BUILDING
9. 4' x 4' OUTLET CONTROL STRUCTURE WITH ORIFICE AND OVERFLOW WEIR. SEE DETAIL 'L', SHEET C501 AND DETENTION CALCULATIONS. HIGH WATER / OVERFLOW = 4672.42', ORIFICE SIZE = 2.0" Ø
10. 6" HDPE PIPE FROM ROOF DRAIN @ 1.00% MINIMUM.
11. CORE-CONNECT NEW STORM DRAIN LINE TO EXISTING STORM DRAIN STRUCTURE.



FG @ BLDG DETAIL

COMMON GRADING ABBREVIATIONS:

SEE SHEET C0.01 FOR ADDITIONAL ABBREVIATIONS

- BFE	BASEMENT FLOOR ELEVATION
- BW	FINISH GRADE AT BOTTOM OF WALL
- EX or EXIST	EXISTING
- EOA	EDGE OF ASPHALT
- EOC	EDGE OF CONCRETE
- FFE	FINISH FLOOR ELEVATION
- FG	FINISH GRADE
- FL	FLOW LINE
- GB	GRADE BREAK
- HP	HIGH POINT
- LP	LOW POINT
- NG	NATURAL GROUND
- SDCB	STORM DRAIN CATCH BASIN
- SDCO	STORM DRAIN CLEANOUT BOX
- SDDB	STORM DRAIN DRAIN BASIN
- SDMH	STORM DRAIN MANHOLE
- TBC	TOP BACK OF CURB
- TOA	TOP OF ASPHALT
- TOC	TOP OF CONCRETE
- TOG	TOP OF GRATE
- TOW	TOP OF WALL
- TW	FINISH GRADE AT TOP OF WALL
- WW	WATERWAY

NOTICE!
THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION, PROTECTION, AND RESTORATION OF ALL BURIED OR ABOVE GROUND UTILITIES, SHOWN OR NOT SHOWN ON THE PLANS.

bhd ARCHITECTS
www.bhdarchitects.com
Phone 801.571.0010
Fax 801.571.0303
Toll Free 888.571.0010
65 East Wadsworth Park Drive
Suite 205 Draper, Utah 84020

PROFESSIONAL ENGINEER
04-08-24
No. 11888925-2202
DANIEL J. CANNING
STATE OF UTAH

McNEIL ENGINEERING
8610 South Sandy Parkway, Suite 200
Sandy, Utah 84070
801.255.7700 mcneilengineering.com

PROJECT NO.: 24119

THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

Tooele UT Deseret Peak Sr Seminary
Approximately 2224 North Berra Boulevard, Tooele, Utah
40.569494, -112.293347

Date:	3 Apr 2024	**BHD #:**	2326
		County Parcel:	02-143-0-0115
		Plan Series:	Custom 5 CR
		Owner #:	501-3450

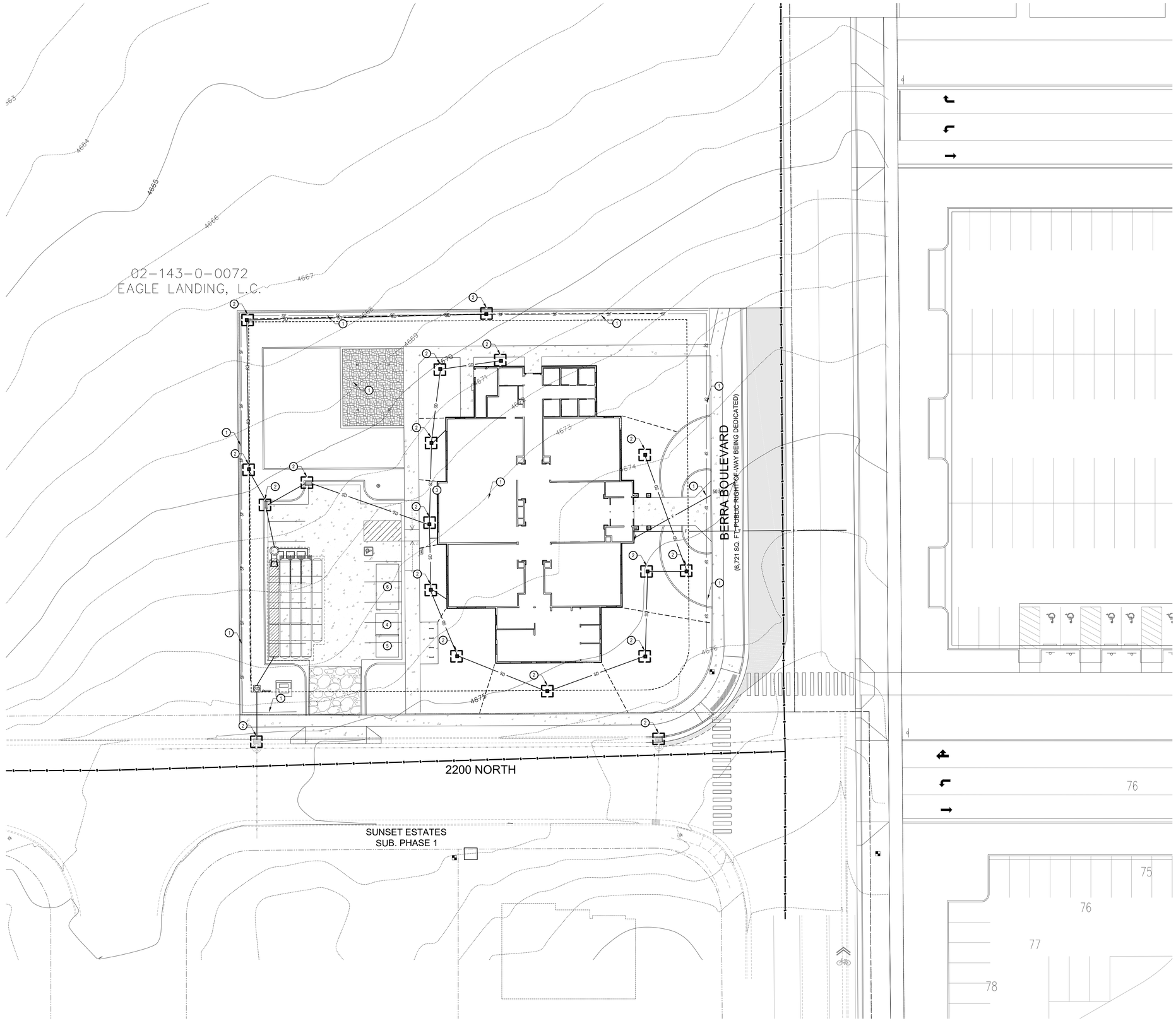
Drawing Issue and Revision Schedule

#	Date	Description
1	3 Apr 2024	Bid Documents

Grading and Drainage Plan

C121

Printed: 8 Apr 2024 2:45 P.M.



NORTH

SCALE: 1" = 20'

0 10' 20' 40' 60'

GENERAL NOTES:

THE CONTRACTOR IS TO USE BEST MANAGEMENT PRACTICES FOR PROVIDING EROSION CONTROL FOR CONSTRUCTION OF THIS PROJECT. SPECIFIC DETAILS REFERRED TO ON THIS SHEET SHALL BE USED IN COMBINATION WITH OTHER ACCEPTED LOCAL PRACTICES.

ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE LOCAL AGENCY'S EROSION CONTROL STANDARDS AND SPECIFICATIONS AND ALL WORK SHALL BE SUBJECT TO INSPECTION BY THE AGENCY HAVING JURISDICTION. ALSO INSPECTORS WILL HAVE THE RIGHT TO CHANGE THE FACILITIES AS NEEDED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING THE LOCATIONS OF ALL EXISTING UTILITIES. IF CONFLICTS OCCUR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONSTRUCTION TO DETERMINE IF ANY FIELD ADJUSTMENTS SHOULD BE MADE.

THE CONTRACTOR SHALL PROVIDE ADEQUATE DUST CONTROL.

WHEN GRADING OPERATIONS HAVE BEEN COMPLETED AND THE DISTURBED GROUND SHALL BE LEFT "OPEN" FOR 30 DAYS OR MORE THE AREA SHALL BE FURROWED PARALLEL TO THE CONTOURS OF THE AREA.

THE CONTRACTOR SHALL MODIFY EROSION CONTROL MEASURES TO ACCOMMODATE PROJECT PLANNING.

MAINTENANCE:

THE OWNER'S REPRESENTATIVE SHALL MAKE ROUTINE CHECKS ON ALL EROSION CONTROL MEASURES TO DETERMINE IF REPAIRS OR SEDIMENT REMOVAL IS NECESSARY. DUE TO CONDITIONS THAT MAY ARISE IN THE FIELD, ADDITIONAL CONTROL MAY BE DETERMINED TO BE NECESSARY.

SILT FENCE BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT THE LEAST DAILY DURING PROLONGED RAINFALL.

CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED SILT FENCES, END RUNS, AND UNDERCUTTING BENEATH SILT FENCING.

NECESSARY REPAIRS TO BARRIERS OR REPLACEMENT OF SILT FENCING SHALL BE ACCOMPLISHED PROMPTLY.

SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL. THEY MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.

KEYED NOTES:

PROVIDE, INSTALL AND/OR CONSTRUCT THE FOLLOWING PER THE SPECIFICATIONS GIVEN OR REFERENCED AND THE DETAILS NOTED AND AS SHOWN ON THE CONSTRUCTION DRAWINGS:

1. SILT FENCE AS SHOWN ON PLAN. SEE DETAIL 'C3', SHEET C502.
2. INLET PROTECTION AROUND EXISTING OR NEW STORM DRAIN CATCH BASINS OR CURB INLETS. SEE DETAIL 'A1', SHEET C502.
3. TEMPORARY CONSTRUCTION ENTRANCE. SEE DETAIL 'C1', SHEET C502. LOCATION SHOWN IS SUGGESTIVE. CONTRACTOR TO RELOCATE AS NEEDED.
4. CONCRETE WASHOUT AREA. SEE DETAIL 'A3', SHEET C502. LOCATION SHOWN IS SUGGESTIVE. CONTRACTOR TO RELOCATE AS NEEDED.
5. PORTABLE TOILET. SEE DETAIL 'C5', SHEET C502. LOCATION SHOWN IS SUGGESTIVE. CONTRACTOR TO RELOCATE AS NEEDED.
6. CONSTRUCTION DUMPSTER, CHECK LEVEL DAILY, LEGALLY DISPOSE OF WASTE AS NEEDED. LOCATION SHOWN IS SUGGESTIVE. CONTRACTOR TO RELOCATE AS NEEDED.
7. TOPSOIL STOCK PILE AREA. MAINTAIN SILT FENCE AROUND PERIMETER AT ALL TIMES. CONTROL DUST FROM PILE BY EITHER COVERING OR KEEPING MOIST. LOCATION SHOWN IS SUGGESTIVE. CONTRACTOR TO RELOCATE AS NEEDED.

Blue Stakes of UTAH 811 — Blue Stakes.com

NOTICE!

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bhd ARCHITECTS
www.bhdarchitects.com
Phone 801.571.0010
Fax 801.571.0303
Toll Free 888.571.0010
65 East Wadsworth Park Drive
Suite 205 Draper, Utah 84020

PROFESSIONAL ENGINEER
04-08-24
No. 14089925-2202
DANIEL J. CANNING
STATE OF UTAH

McNEIL ENGINEERING
8410 South Sandy Parkway, Suite 200
Sandy, Utah 84070
801.255.7700 mcneilengineering.com

PROJECT NO. 24119

THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

Tooele UT Deseret Peak Sr Seminary

Approximately 2234 North Berra Boulevard, Tooele, Utah
40.549494, -112.303347

Date: 3 Apr 2024	**BHD #:** 2326	**County Parcel:** 02-143-0-0115	**Plan Series:** Custom 5 CR
			Owner #: 501-3450

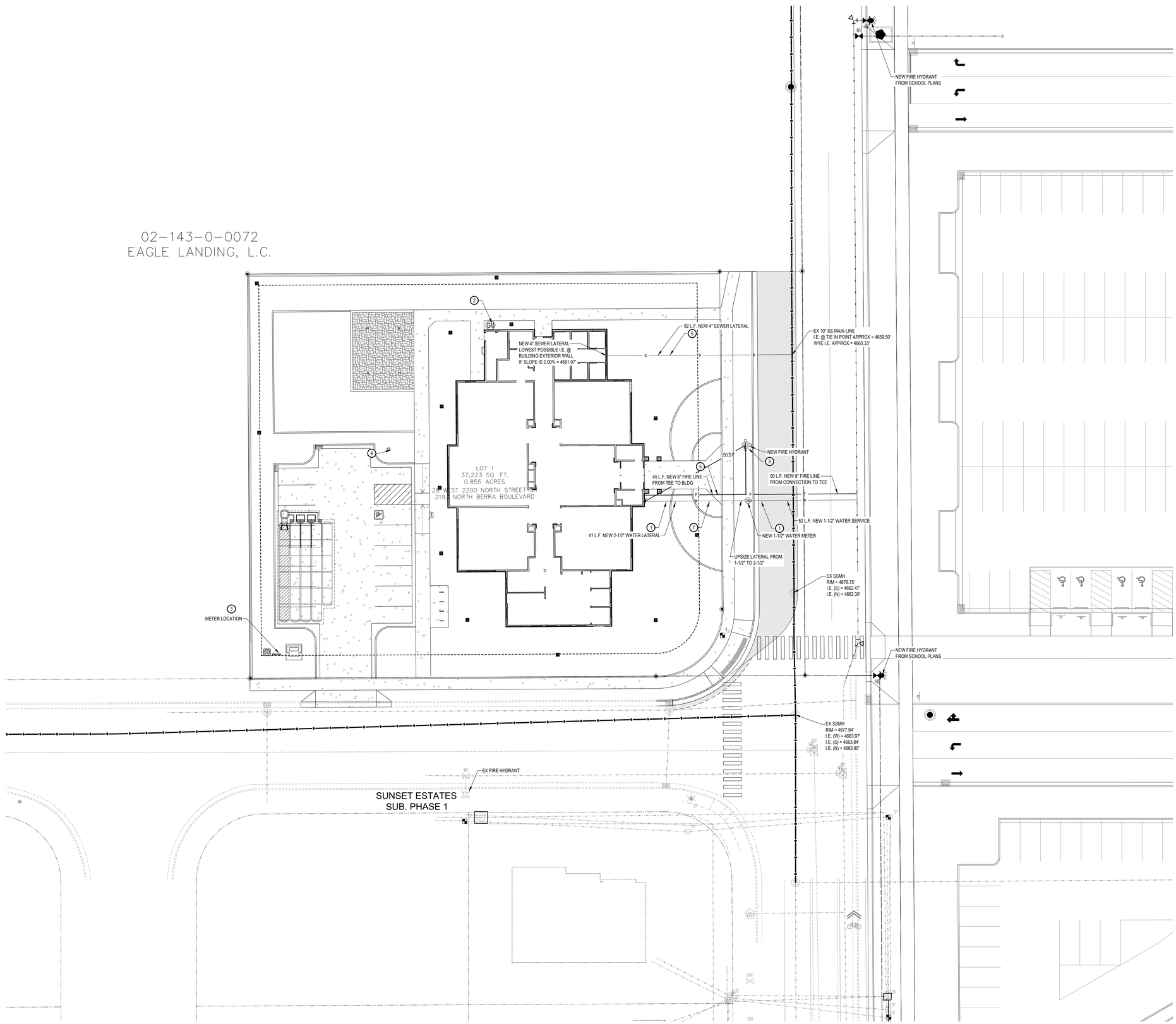
Drawing Issue and Revision Schedule

#	Date	Description
1	3 Apr 2024	Bid Documents

Erosion Control Plan

C171

Printed: 8 Apr 2024 2:46 PM



NORTH

SCALE: 1" = 20'

0 15' 30' 60' 90'

GENERAL NOTES:

CONTRACTOR IS TO COORDINATE ALL SITE UTILITIES WITH PLUMBING DRAWINGS.

ALL NEW WATER CONSTRUCTION TO BE DONE IN ACCORDANCE WITH TOOELE STANDARDS & SPECIFICATIONS.

ALL NEW SANITARY SEWER CONSTRUCTION TO BE DONE IN ACCORDANCE WITH LAKE POINT IMPROVEMENT DISTRICT STANDARDS & SPECIFICATIONS.

CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND INVERT ELEVATIONS OF EXISTING MANHOLES AND OTHER UTILITIES BEFORE STAKING OR CONSTRUCTING ANY SEWER LINES.

FOUR FEET OF COVER IS REQUIRED OVER ALL SEWER LINES.

MAINTAIN A MINIMUM OF 36 INCHES OF COVER ON ALL WATER LINES.

CONTRACTOR IS TO COORDINATE LOCATION AND DESIGN OF NEW COMMUNICATION / DATA FACILITIES TO BUILDING WITH UTILITY PROVIDER.

CONTRACTOR IS TO COORDINATE LOCATION AND DESIGN OF NEW NATURAL GAS FACILITIES TO BUILDING WITH DOMINION ENERGY AND MECHANICAL PLANS.

LOCATION OF ALL UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE LOCATIONS. CONTRACTOR IS TO VERIFY CONNECTION POINTS WITH EXISTING UTILITIES. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED TO EXISTING UTILITIES AND UTILITY STRUCTURE THAT ARE TO REMAIN.

UTILITY PROVIDERS:
- WATER: TOOELE WATER DEPARTMENT
- SEWER: LAKE POINT IMPROVEMENT DISTRICT
- NATURAL GAS: DOMINION ENERGY
- ELECTRICAL POWER: ROCKY MOUNTAIN POWER
- TELEPHONE: CENTURY LINK

KEYED NOTES:

PROVIDE, INSTALL AND/OR CONSTRUCT THE FOLLOWING PER THE SPECIFICATIONS GIVEN OR REFERENCED AND THE DETAILS NOTED AND AS SHOWN ON THE CONSTRUCTION DRAWINGS:

1. INSTALL NEW 1-1/2" POLY PIPE CULINARY WATER METER AND SERVICE TO THE METER, LINE PER APWA PLAN NO. 541, UPSIZE TO 2-1/2" PIPE SERVICE LATERAL 3' AFTER THE METER AND RUN THE 2-1/2" LATERAL TO PROPOSED BUILDING.
2. APPROXIMATE LOCATION OF NEW NATURAL GAS METER(S). CONTRACTOR TO COORDINATE SIZE, DESIGN AND INSTALLATION WITH DOMINION ENERGY AND WITH MECHANICAL PLANS.
3. APPROXIMATE LOCATION OF NEW ELECTRICAL METER. CONTRACTOR TO COORDINATE SIZE, DESIGN AND INSTALLATION WITH ROCKY MOUNTAIN POWER AND WITH ELECTRICAL PLANS.
4. NEW PARKING LOT LIGHT POLE LOCATIONS, SEE ELECTRICAL PLAN FOR DETAILS.
5. 6" DIP CLASS 52 FIRE LINE WRAPPED IN AWWA APPROVED POLYETHYLENE ENCASEMENT (POLYWRAP), INCLUDING ALL FITTINGS AND THRUST BLOCKING. SEE APWA STANDARD PLAN 561 FOR THRUST BLOCKING.
6. 4" PVC SDR-35 SANITARY SEWER LATERAL, INCLUDING ALL FITTINGS. CLEANOUTS AT 50-FOOT MAXIMUM SPACING. SEE APWA PLANS NO. 381 & 382 FOR TRENCHING. SEE APWA PLAN NO. 431 FOR CLEANOUTS.
7. INSTALL NEW STOP AND WASTE FOR IRRIGATION CONNECTION. SEE LANDSCAPE AND IRRIGATION PLANS FOR DETAILS.
8. FIRE HYDRANT ASSEMBLY COMPLETE, PER APWA PLANS NO. 511.

NOTICE!

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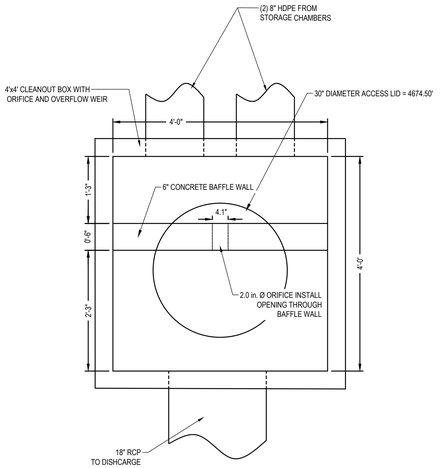
Drawing Issue and Revision Schedule

#	Date	Description
1	3 Apr 2024	Bid Documents

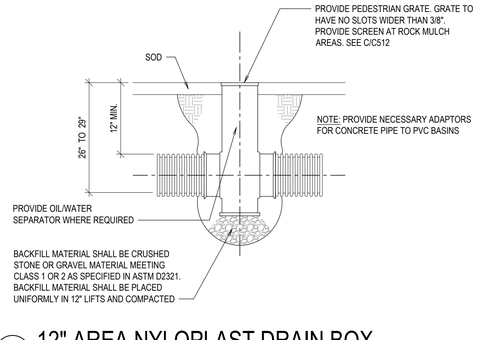
Site Utility Plan

C151

Printed: 8 Apr 2024 2:46 PM

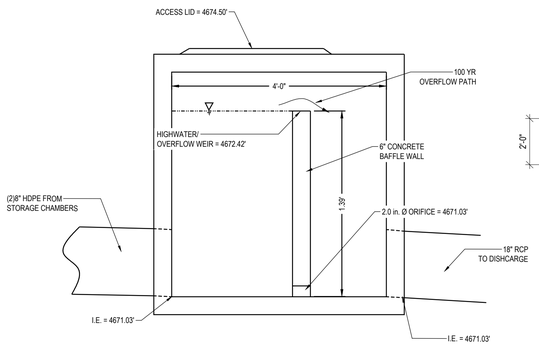


OUTLET CONTROL STRUCTURE
WITH ORIFICE AND OVERFLOW WEIR (L)

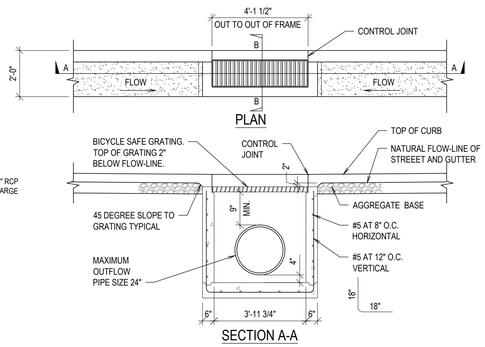


(C) 12" AREA NYLOPLAST DRAIN BOX

SCALE: N.T.S. NOTE : (DIAMETER OF BASIN DETERMINED BY NUMBER OF PIPES IN AND OUT)



SECTION VIEW

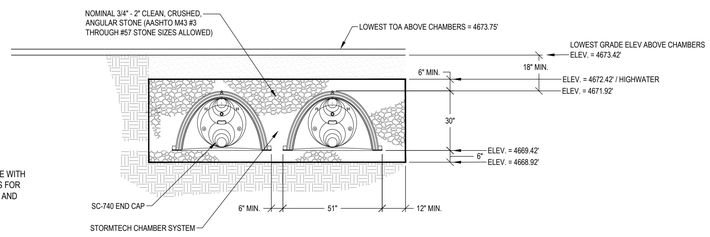


(M) SINGLE GUTTER INLET BOX

SCALE: N.T.S.

NOTES:
1. MATERIALS, CONSTRUCTION, AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH CURRENT EDITION OF "STATE STD. SPEC'S FOR ROAD AND BRIDGE CONST.", ADDENDUMS AND SPECIAL PROVISIONS THERETO.
2. ALL STEEL SHALL HAVE A MINIMUM OF 2" CONCRETE COVER.
3. GREY IRON CASTING: ASTM A48 CLASS 30 MINIMUM.
4. 2"x4" SHEAR KEY REQUIRED BOTH WAYS.

NOTES:
FULL SHOP DRAWINGS FOR THE STORM CHAMBERS FROM THE MANUFACTURER ARE REQUIRED FOR BIDDING AND CONSTRUCTION.



*SEE STORMTECH'S DESIGN MANUAL

(N) STORMTECH CHAMBER SECTION DETAIL

SCALE: N.T.S.

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www.bhdarchitects.com
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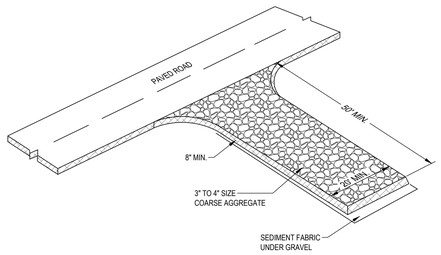
Drawing Issue and Revision Schedule

#	Date	Description
1	3 Apr 2024	Bid Documents

Civil Details

C501

Printed: 8 Apr 2024 2:46 P.M.



DESCRIPTION:
A STABILIZED PAD OF CRUSHED STONE LOCATED WHERE CONSTRUCTION TRAFFIC ENTERS OR LEAVES THE SITE FROM OR TO PAVED SURFACE.

APPLICATIONS:
AT ANY POINT OF INGRESS OR EGRESS AT A CONSTRUCTION SITE WHERE ADJACENT TRAVELED WAY IS PAVED. GENERALLY APPLIES TO SITES OVER 2 ACRES UNLESS SPECIAL CONDITIONS EXIST.

INSTALLATION/APPLICATION CRITERIA:
- CLEAR GRUB AREA AND GRAD TO PROVIDE MAXIMUM SLOPE OF 2%.
- COMPACT SUB GRADE AND PLACE FILTER FABRIC IF DESIRED (RECOMMENDED FOR ENTRANCES TO REMAIN FOR MORE THAN 3 MONTHS
- PLACE COARSE AGGREGATE, 1 TO 2-1/2 INCHES IN SIZE, TO A MINIMUM DEPTH OF 8 INCHES.

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

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

OBJECTIVES
- ※ HOUSEKEEPING PRACTICES
- □ CONTAIN WASTE
- □ MINIMIZE DISTURBED AREA
- □ STABILIZE DISTURBED AREA
- □ PROTECT SLOPES/CHANNELS
- ※ CONTROL SITE PERIMETER
- □ CONTROL INTERNAL EROSION

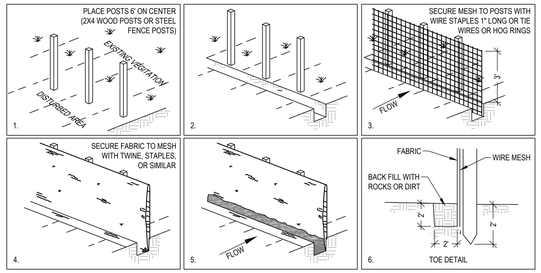
TARGETED POLLUTANTS
- ■ SEDIMENT
- □ NUTRIENTS
- □ TOXIC MATERIALS
- □ OIL & GREASE
- □ FLOATABLE MATERIALS
- □ OTHER WASTE

- ■ HIGH IMPACT
- ※ MEDIUM IMPACT
- □ LOW OR UNKNOWN IMPACT

IMPLEMENTATION REQUIREMENTS
- ■ CAPITAL COSTS
- ※ O & M COSTS
- ※ MAINTENANCE
- □ TRAINING

■ HIGH ※ MEDIUM □ LOW

STABILIZED CONSTRUCTION ENTRANCE C1
SCALE: N.T.S.



DESCRIPTION:
A TEMPORARY SEDIMENT BARRIER CONSISTING OF ENTRENCHED FILTER FABRIC STRETCHED ACROSS AND SECURED TO SUPPORTING POSTS.

APPLICATIONS:
- PERIMETER CONTROL: PLACER BARRIER AT DOWNGRADE LIMITS OF DISTURBANCE.
- SEDIMENT BARRIER: PLACE BARRIER AT TOE OF SLOPE OR SOIL STOCKPILE.
- PROTECTION OF EXISTING WATERWAYS. PLACE BARRIER AT TOP OF STREAM BANK
- INLET PROTECTION: PLACE FENCE SURROUNDING CATCH BASINS

INSTALLATION/APPLICATION CRITERIA:
- PLACE POSTS 6 FEET APART ON CENTER ALONG CONTOUR (OR USE PRE-ASSEMBLED UNIT) AND DRIVE 2 FEET MINIMUM INTO GROUND. EXCAVATE AN ANCHOR TRENCH IMMEDIATELY UPGRADIENT OF POSTS.
- SECURE WIRE MESH (14 GAGE MIN. WITH 6 INCH OPENINGS) TO UPSLOPE SIDE OF POSTS. ATTACH WITH HEAVY DUTY 1 INCH LONG WIRE STAPLES, TIE WIRES OR HOG RINGS.
- CUT FABRIC TO REQUIRED WIDTH, UNROLL ALONG LENGTH OF BARRIER AND DRAPE OVER BARRIER. SECURE FABRIC TO MESH WITH TWINE, STAPLES, OR SIMILAR, WITH TRAILING EDGE EXTENDING INTO ANCHOR TRENCH.
- BACKFILL OVER FILTER FABRIC TO ANCHOR.

LIMITATIONS:
- RECOMMENDED MAXIMUM DRAINAGE AREA OF 0.5 ACRE PER 100 FEET OF FENCE.
- RECOMMENDED MAXIMUM UPGRADIENT SLOPE LENGTH OF 150 FEET.
- RECOMMENDED MAXIMUM UPHILL GRADE OF 2:1 (50%).
- RECOMMENDED MAXIMUM FLOW RATE OF 0.5 CFS.
- PONDING SHOULD NOT BE ALLOWED BEHIND FENCE.

MAINTENANCE:
- INSPECT IMMEDIATELY AFTER ANY RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.
- LOOK FOR RUNOFF BYPASSING ENDS OF BARRIERS OR UNDERCUTTING BARRIERS.
- REPAIR OR REPLACE DAMAGED AREAS OF THE BARRIER AND REMOVE ACCUMULATED SEDIMENT.
- REANCHOR FENCE AS NECESSARY TO PREVENT SHORTCUTTING.
- REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES 1/2 THE HEIGHT OF THE FENCE.

OBJECTIVES
- □ HOUSEKEEPING PRACTICES
- □ CONTAIN WASTE
- □ MINIMIZE DISTURBED AREA
- □ STABILIZE DISTURBED AREA
- □ PROTECT SLOPES/CHANNELS
- ※ CONTROL SITE PERIMETER
- ※ CONTROL INTERNAL EROSION

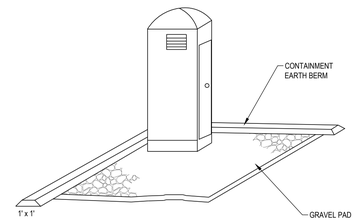
TARGETED POLLUTANTS
- ■ SEDIMENT
- □ NUTRIENTS
- □ TOXIC MATERIALS
- □ OIL & GREASE
- □ FLOATABLE MATERIALS
- □ OTHER WASTE

- ■ HIGH IMPACT
- ※ MEDIUM IMPACT
- □ LOW OR UNKNOWN IMPACT

IMPLEMENTATION REQUIREMENTS
- ※ CAPITAL COSTS
- ※ O & M COSTS
- ※ MAINTENANCE
- □ TRAINING

■ HIGH ※ MEDIUM □ LOW

SILT FENCE C3
SCALE: N.T.S.



DESCRIPTION:
TEMPORARY ON-SITE SANITARY FACILITIES FOR CONSTRUCTION PERSONNEL.

APPLICATIONS:
- ALL SITES WITH NO PERMANENT SANITARY FACILITIES OR WHERE PERMANENT FACILITY IS TO FAR FROM ACTIVITIES.

INSTALLATION/APPLICATION CRITERIA:
- LOCATE PORTABLE TOILETS IN CONVENIENT LOCATIONS THROUGHOUT THE SITE.
- PREPARE LEVEL, GRAVEL SURFACE AND PROVIDE CLEAR ACCESS TO THE TOILETS FOR SERVICING AND FOR ON-SITE PERSONNEL.
- CONSTRUCT EARTH BERM PERIMETER (SEE EARTH BERM BARRIER INFORMATION SHEET), CONTROL FOR SPILL/PROTECTION LEAK.

LIMITATIONS:
- NO LIMITATIONS

MAINTENANCE:
- PORTABLE TOILETS SHOULD BE MAINTAINED IN GOOD WORKING ORDER BY LICENSED SERVICE WITH DAILY OBSERVATION FOR LEAK DETECTION.
- REGULAR WASTE COLLECTION SHOULD BE ARRANGED WITH LICENSED SERVICE.
- ALL WASTE SHOULD BE DEPOSITED IN SANITARY SEWER SYSTEM FOR TREATMENT WITH APPROPRIATE AGENCY APPROVAL.

OBJECTIVES
- ※ HOUSEKEEPING PRACTICES
- ※ CONTAIN WASTE
- □ MINIMIZE DISTURBED AREA
- □ STABILIZE DISTURBED AREA
- □ PROTECT SLOPES/CHANNELS
- □ CONTROL SITE PERIMETER
- □ CONTROL INTERNAL EROSION

TARGETED POLLUTANTS
- □ SEDIMENT
- □ NUTRIENTS
- □ TOXIC MATERIALS
- □ OIL & GREASE
- □ FLOATABLE MATERIALS
- ■ OTHER WASTE

- ■ HIGH IMPACT
- ※ MEDIUM IMPACT
- □ LOW OR UNKNOWN IMPACT

IMPLEMENTATION REQUIREMENTS
- ※ CAPITAL COSTS
- ※ O & M COSTS
- ※ MAINTENANCE
- □ TRAINING

■ HIGH ※ MEDIUM □ LOW

PORTABLE TOILETS C5
SCALE: N.T.S.

FILTERSOCK SPECIFICATION:

FILTREXX FILTERSOCK INSTALLATION AND MAINTENANCE

1.0 DESCRIPTION:
THIS WORK SHALL CONSIST OF FURNISHING, INSTALLING, MAINTAINING AND DISPERSING (IF NEEDED) A WATER PERMEABLE COMPOST FILTER SOCK (FILTREXX FILTERSOCK) TO CONTAIN SOIL EROSION AND SEDIMENT BY REMOVING SOIL PARTICLES FROM WATER MOVING OFF SITE INTO ADJACENT WATERWAYS OR STORM WATER DRAINAGE SYSTEMS. FILTERSOCKS WILL BE USED AS A FORM OF INLET PROTECTION FOR OPERATIONAL STORM DRAINAGE SYSTEMS.

2.0 COMPOST PRODUCTS USED TO FILL FILTREXX FILTERSOCKS
1. COMPOST: COMPOST USED FOR FILTREXX FILTERSOCKS SHALL BE WEED FREE AND DERIVED FROM A WELL-DECOMPOSED SOURCE OF ORGANIC MATTER. THE COMPOST SHALL BE PRODUCED USING AN AEROBIC COMPOSTING PROCESS MEETING CFR 503 REGULATIONS, INCLUDING TIME AND TEMPERATURE DATA INDICATING EFFECTIVE WEED SEED, PATHOGEN AND INSECT LARVAE KILL. THE COMPOST SHALL BE FREE OF ANY REFUSE, CONTAMINANTS OR OTHER MATERIALS TOXIC TO PLANT GROWTH. NON-COMPOSTED PRODUCTS WILL NOT BE ACCEPTED. TEST METHODS FOR THE ITEMS BELOW SHOULD FOLLOW USCC TMECC GUIDELINES FOR LABORATORY PROCEDURES:
   A. PH - 5.0-8.0 IN ACCORDANCE WITH TMECC 04.11-A, "ELECTROMETRIC PH DETERMINATIONS FOR COMPOST"
   B. PARTICLE SIZE - 99% PASSING A 1" SIEVE, 90% PASSING A _" SIEVE AND A MINIMUM OF 70% GREATER THAN THE 3/8" SIEVE. A TOTAL OF 98 % SHALL NOT EXCEED 3 INCHES IN LENGTH, IN ACCORDANCE WITH TMECC 02.02-B, "SAMPLE SIEVING FOR AGGREGATE SIZE CLASSIFICATION"
   C. MOISTURE CONTENT OF LESS THAN 60% IN ACCORDANCE WITH STANDARDIZED TEST METHODS FOR MOISTURE DETERMINATION.
   D. MATERIAL SHALL BE RELATIVELY FREE (<1% BY DRY WEIGHT) OF INERT OR FOREIGN MAN MADE MATERIALS. E. A SAMPLE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO BEING USED AND MUST COMPLY WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.

3.0 CONSTRUCTION AND INSTALLATION OF FILTREXX FILTERSOCKS:
1. FILTREXX FILTERSOCKS WILL BE USED AS A FORM OF INLET PROTECTION ON CONSTRUCTION SITES WHICH REQUIRE PROTECTION AGAINST SEDIMENT LADEN WATER AFTER STORM DRAINS BECOME OPERATIONAL.
2. FILTREXX FILTERSOCKS WILL BE PLACED AT LOCATIONS INDICATED ON PLANS AS DIRECTED BY THE ENGINEER. FILTERSOCKS SHOULD BE INSTALLED IN A PATTERN THAT ALLOWS COMPLETE PROTECTION OF THE INLET AREA
3. INSTALLATION OF FILTREXX FILTERSOCKS WILL ENSURE A MINIMAL OVERLAP OF AT LEAST ONE FOOT ON EITHER SIDE OF THE OPENING BEING PROTECTED. THE FILTERSOCKS WILL BE ANCHORED TO THE SOIL BEHIND THE CURB USING STAPLES, STAKES OR OTHER DEVICES CAPABLE OF HOLDING THE FILTERSOCK IN PLACE.
4. STANDARD SIZES OF FILTERSOCKS FOR INLET PROTECTION WILL BE 8" DIAMETER PRODUCTS. IN SEVERE FLOW SITUATIONS, LARGER FILTERSOCKS MAY BE RECOMMENDED BY THE ENGINEER.
5. FILTERSOCKS SHALL BE CONSTRUCTED OF A WOVEN MATERIAL AND FILLED WITH A COMPOST PRODUCT THAT PASSES THE CRITERIA LISTED IN SECTION 2.
6. IF THE FILTERSOCKS BECOME CLOGGED WITH DEBRIS AND SEDIMENT, THEY SHALL BE MAINTAINED SO AS TO ASSURE A PROPER DRAINAGE AND WATER FLOW INTO THE STORM DRAIN. IN SEVERE STORM EVENTS, OVERFLOW OF THE FILTERSOCK MAY BE ACCEPTABLE IN ORDER TO KEEP THE AREA FROM FLOODING.
7. THE FILTERSOCKS SHALL BE POSITIONED SO AS TO PROVIDE COMPLETE PHYSICAL BARRIER TO THE DRAIN ITSELF, ALLOWING SEDIMENT TO COLLECT ON THE OUTSIDE OF THE FILTERSOCKS. SEE ATTACHED SCHEMATIC FOR FILTREXX FILTERSOCK INSTALLATION.
8. FOR AREAS WHERE FILTERSOCKS ARE TO BE LEFT AS A PERMANENT PART OF THE LANDSCAPE, FILTERSOCKS MAY BE SEEDED DURING TIME OF MANUFACTURE TO CREATE A LIVING SOCK. FOR SEEDING OPTIONS, THE ENGINEER MAY SIMPLY REPLACE ALL LANGUAGE ABOVE WITH "LIVING FILTREXX FILTERSOCKS"

4.0 MAINTENANCE:
1. THE CONTRACTOR SHALL MAINTAIN FILTREXX FILTERSOCKS IN A FUNCTIONAL CONDITION AT ALL TIMES AND IT SHALL BE ROUTINELY INSPECTED.
2. WHERE THE FILTERSOCK REQUIRES REPAIR, IT WILL BE ROUTINELY REPAIRED.
3. THE CONTRACTOR SHALL REMOVE SEDIMENTS COLLECTED AT THE BASE OF THE FILTERSOCK WHEN THEY REACH 1/3 OF THE EXPOSED HEIGHT OF THE FILTERSOCK, OR AS DIRECTED BY THE ENGINEER.
4. THE FILTREXX FILTERSOCK WILL BE DISPERSED ON SITE WHEN NO LONGER REQUIRED, AS DETERMINED BY THE ENGINEER. THE NETTING MATERIAL WILL BE DISPOSED OF IN NORMAL TRASH CONTAINERS OR REMOVED BY THE CONTRACTOR.
5. REGULAR MAINTENANCE INCLUDES LIFTING THE FILTREXX FILTERSOCKS AND CLEANING UNDER THEM AS SEDIMENT COLLECTS.

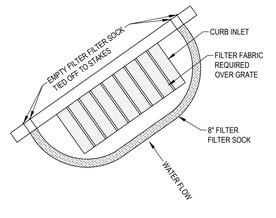
5.0 METHOD OF MEASUREMENT:
BID ITEMS SHALL SHOW MEASUREMENT AS 'FILTREXX FILTERSOCK' PER LINEAR FOOT, INSTALLED OR PER INLET, AS SPECIFIED BY THE ENGINEER.

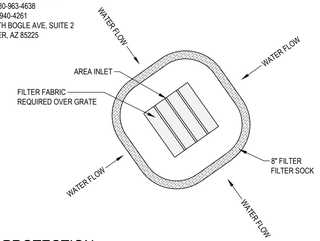
6.0 PERFORMANCE:
1. CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING A WORKING EROSION CONTROL SYSTEM AND MAY, WITH APPROVAL OF THE ENGINEER, WORK OUTSIDE THE MINIMUM CONSTRUCTION REQUIREMENTS AS NEEDED.
2. WHERE THE FILTERSOCK DETERIORATES OR FAILS, IT WILL BE REPAIRED OR REPLACED WITH A MORE EFFECTIVE ALTERNATIVE.
3. CONTRACTOR IS REQUIRED TO BE A CERTIFIED FILTREXX INSTALLER AS DETERMINED BY FILTREXX INTERNATIONAL, LLC (440-926-8041 OR VISIT WEBSITE AT FILTREXX.COM). CERTIFICATION SHALL BE CONSIDERED CURRENT IF APPROPRIATE IDENTIFICATION IS SHOWN DURING TIME OF BID OR AT TIME OF APPLICATION.

7.0 APPLICATION GUIDELINES:
1. FILTREXX FILTERSOCKS SHALL EITHER BE MADE ON SITE OR DELIVERED TO THE JOBSITE USING A 3 MIL TUBULAR HDPE KNITTED MESH NETTING MATERIAL, FILLED WITH COMPOST PASSING THE ABOVE SPECIFICATIONS FOR COMPOST PRODUCTS AS OUTLINED IN 2.0.
2. FILTREXX FILTERSOCKS NETTING MATERIALS ARE AVAILABLE ONLY FROM FILTREXX INTERNATIONAL, LLC AND ARE THE ONLY CERTIFIED MESH MATERIALS ACCEPTED IN CREATING FILTREXX PRODUCTS ON SITE OR AS DELIVERED TO THE JOB SITE. STANDARD FILTREXX COLOR CODING SYSTEMS INCLUDE YELLOW AND BLACK STRIPED MESH NETTING WITH 3/8" MESH OPENINGS FOR INLET PROTECTION. OTHER COLORS ARE ONLY ACCEPTABLE AS APPROVED BY BOTH THE ENGINEER AND FILTREXX INTERNATIONAL, LLC.
3. CONTRACTOR IS REQUIRED TO BE A CERTIFIED FILTREXX INSTALLER AS DETERMINED BY FILTREXX INTERNATIONAL, LLC (440-926-8041 OR VISIT WEBSITE AT FILTREXX.COM). CERTIFICATION SHALL BE CONSIDERED CURRENT IF APPROPRIATE IDENTIFICATION IS SHOWN DURING TIME OF BID OR AT TIME OF APPLICATION.

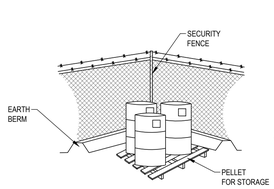
8.0 AVAILABLE VENDORS FILTREXX FILTERSOCKS MAY BE PURCHASED FROM THE FOLLOWING CERTIFIED FILTREXX INSTALLERS:

WINDSWEPT ORGANIX INC.
WORK: 480-963-4638
FAX: 408-940-4261
850 SOUTH BOGLE AVE, SUITE 2
CHANDLER, AZ 85225





SEDIMENT BARRIER / FILTER SOCK PROTECTION A1
SCALE: N.T.S. © REPLENISH



- CONTROLLED STORAGE LOCATION
- BERMED PERIMETER IMPOUNDMENT
- STORAGE OFF GROUND
- COVER WHEN NOT IN USE

DESCRIPTION:
CONTROLLED STORAGE OF ON-SITE MATERIALS.

APPLICATIONS:
- STORAGE OF HAZARDOUS, TOXIC, AND ALL CHEMICAL SUBSTANCES.
- ANY CONSTRUCTION SITE WITH OUTSIDE STORAGE OF MATERIALS.

INSTALLATION/APPLICATION CRITERIA:
- DESIGNATE A SECURED AREA WITH LIMITED ACCESS AS THE STORAGE LOCATION. ENSURE NO WATERWAYS OR DRAINAGE PATHS ARE NEARBY.
- CONSTRUCT COMPACTED EARTHEN BERM (SEE EARTH BERM BARRIER INFORMATION SHEET), OR SIMILAR PERIMETER CONTAINMENT AROUND STORAGE LOCATION FOR IMPOUNDMENT IN THE CASE OF SPILLS.
- ENSURE ALL ON-SITE PERSONNEL UTILIZE DESIGNATED STORAGE AREA. DO NOT STORE EXCESSIVE AMOUNTS OF MATERIAL THAT WILL NOT BE UTILIZED ON SITE.
- FOR ACTIVE USE OF MATERIAL AWAY FROM THE STORAGE AREA ENSURE MATERIALS ARE NOT SET DIRECTLY ON THE GROUND AND ARE COVERED WHEN NOT IN USE. PROTECT STORM DRAINAGE DURING USE.

LIMITATIONS:
- DOES NOT PREVENT CONTAMINATION DUE TO MISHANDLING OF PRODUCTS.
- SPILL PREVENTION AND RESPONSE PLAN STILL REQUIRED.
- ONLY EFFECTIVE IF MATERIALS ARE ACTIVELY STORED IN CONTROLLED LOCATION.

MAINTENANCE:
- INSPECT DAILY AND REPAIR ANY DAMAGE TO PERIMETER IMPOUNDMENT OR SECURITY FENCING.
- CHECK MATERIALS ARE BEING CORRECTLY STORED (I.E. STANDING UPRIGHT, IN LABELED CONTAINERS, TIGHTLY CAPPED) AND THAT NO MATERIALS ARE BEING STORED AWAY FROM THE DESIGNATED LOCATION.

OBJECTIVES
- ※ HOUSEKEEPING PRACTICES
- ※ CONTAIN WASTE
- □ MINIMIZE DISTURBED AREA
- □ STABILIZE DISTURBED AREA
- □ PROTECT SLOPES/CHANNELS
- □ CONTROL SITE PERIMETER
- □ CONTROL INTERNAL EROSION

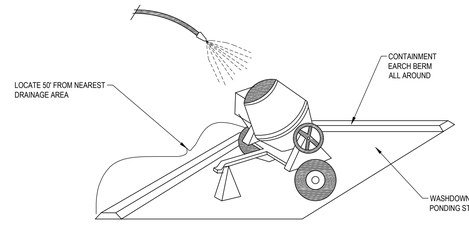
TARGETED POLLUTANTS
- □ SEDIMENT
- □ NUTRIENTS
- ■ TOXIC MATERIALS
- □ OIL & GREASE
- □ FLOATABLE MATERIALS
- ※ OTHER WASTE

- ■ HIGH IMPACT
- ※ MEDIUM IMPACT
- □ LOW OR UNKNOWN IMPACT

IMPLEMENTATION REQUIREMENTS
- ※ CAPITAL COSTS
- ※ O & M COSTS
- ※ MAINTENANCE
- ■ TRAINING

■ HIGH ※ MEDIUM □ LOW

MATERIALS STORAGE A3
SCALE: N.T.S.



DESCRIPTION:
PREVENT OR REDUCE THE DISCHARGE OF POLLUTANTS TO STORM WATER FROM CONCRETE WASTE BY CONDUCTING WASHOUT OFF-SITE, PERFORMING ON-SITE WASHOUT IN A DESIGNATED AREA, AND TRAINING EMPLOYEES AND SUBCONTRACTORS.

APPLICATIONS:
- THIS TECHNIQUE IS APPLICABLE TO ALL TYPES OF SITES.

INSTALLATION/APPLICATION CRITERIA:
- STORE DRY AND WET MATERIALS UNDER COVER, AWAY FROM DRAINAGE AREAS.
- AVOID MIXING EXCESS AMOUNTS OF FRESH CONCRETE OR CEMENT ON-SITE.
- PERFORM WASHOUT OF CONCRETE TRUCKS OFF-SITE OR IN DESIGNATED AREAS ONLY.
- DO NOT WASH OUT CONCRETE TRUCKS INTO STORM DRAINS, OPEN DITCHES, STREETS, OR STREAMS.
- DO NOT ALLOW EXCESS CONCRETE TO BE DUMPED ON-SITE, EXCEPT IN DESIGNATED AREAS.
- WHEN WASHING CONCRETE TO REMOVE FINE PARTICLES AND EXPOSE THE AGGREGATE, AVOID CREATING RUNOFF BY DRAINING THE WATER WITHIN A BERMED OR LEVEL AREA (SEE EARTH BERM BARRIER INFORMATION SHEET.)
- TRAIN EMPLOYEES AND SUBCONTRACTORS IN PROPER CONCRETE WASTE MANAGEMENT.

LIMITATIONS:
- OFF-SITE WASHOUT OF CONCRETE WASTES MAY NOT ALWAYS BE POSSIBLE.

MAINTENANCE:
- INSPECT SUBCONTRACTORS T ENSURE THAT CONCRETE WASTES ARE BEING PROPERLY MANAGED.
- IF USING A TEMPORARY PIT, DISPOSE HARDENED CONCRETE ON A REGULAR BASIS.

OBJECTIVES
- □ HOUSEKEEPING PRACTICES
- ※ CONTAIN WASTE
- □ MINIMIZE DISTURBED AREA
- □ STABILIZE DISTURBED AREA
- □ PROTECT SLOPES/CHANNELS
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- ■ HIGH IMPACT
- ※ MEDIUM IMPACT
- □ LOW OR UNKNOWN IMPACT

IMPLEMENTATION REQUIREMENTS
- □ CAPITAL COSTS
- □ O & M COSTS
- ※ MAINTENANCE
- ※ TRAINING

■ HIGH ※ MEDIUM □ LOW

CONCRETE WASTE MANAGEMENT A5
SCALE: N.T.S.

bhd ARCHITECTS
www.bhdarchitects.com
Phone 801.571.0010
Fax 801.571.0303
Toll Free 888.571.0010
65 East Wadsworth Park Drive
Suite 205 Draper, Utah 84020

PROFESSIONAL ENGINEER
04-08-24
No. 11088925-2202
DANIEL J. CANNING
STATE OF UTAH

McNEIL ENGINEERING
8410 South Sandy Parkway, Suite 200
Sandy, Utah 84070
801.255.7700 mcneilengineering.com
PROJECT NO. 24119

THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

Tooele UT Deseret Peak Sr Seminary

Approximately 2234 North Reno Boulevard, Tooele, Utah
40.5269694, -112.3083347

Owner #: 501-3450
Plan Series: Custom 5 CR
County Parcel: 02-143-0-0115
BHD #: 2326
Date: 3 Apr 2024

Drawing Issue and Revision Schedule

#	Date	Description
1	3 Apr 2024	Bid Documents

Civil Details

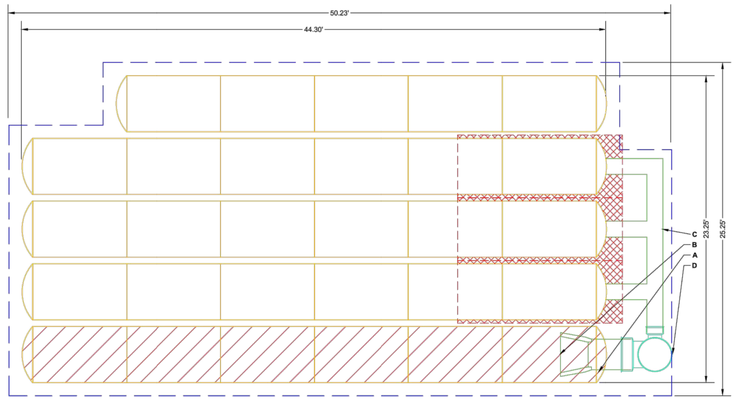
C502

Printed: 8 Apr 2024 2:46 PM

PROPOSED LAYOUT		CONCEPTUAL ELEVATIONS:		
29	STORMTECH SC-740 CHAMBERS	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED):		11.00
10	STORMTECH SC-740 END CAPS	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC):		5.00
6	STONE ABOVE (in)	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC):		4.50
6	STONE BELOW (in)	MINIMUM ALLOWABLE GRADE (TOP OF RIGID CONCRETE PAVEMENT):		4.50
40	STONE VOID	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT):	ELEV =4673.42'	4.50
2492	INSTALLED SYSTEM VOLUME (CF) (PERIMETER STONE INCLUDED) (COVER STONE INCLUDED) (BASE STONE INCLUDED)	TOP OF STONE:	ELEV = 4672.42'	3.50
		TOP OF SC-740 CHAMBER:	ELEV = 4671.92'	3.00
		12" x 12" TOP MANIFOLD INVERT:	ELEV = 4670.46'	1.54
		24" ISOLATOR ROW PLUS INVERT:	ELEV = 4669.43'	0.51
1209	SYSTEM AREA (SF)	BOTTOM OF SC-740 CHAMBER:	ELEV = 4669.42'	0.50
151.0	SYSTEM PERIMETER (ft)	BOTTOM OF STONE:	ELEV = 4668.92'	0.00

*INVERT ABOVE BASE OF CHAMBER

PART TYPE	ITEM ON LAYOUT	DESCRIPTION	INVERT*	MAX FLOW
PREFABRICATED EZ END CAP	A	24" BOTTOM PREFABRICATED EZ END CAP, PART#: SC740ECEZ / TYP OF ALL 24" BOTTOM CONNECTIONS AND ISOLATOR PLUS ROWS	0.10"	
	B	INSTALL FLAMP ON 24" ACCESS PIPE / PART#: SC74024RAMP		
MANIFOLD	C	12" x 12" TOP MANIFOLD, ADS N-12	12.50"	
NYLOPLAST (INLET W/ ISO PLUS ROW)	D	30" DIAMETER (24.00" SUMP MIN)		5.7 CFS IN



ISOLATOR ROW PLUS (SEE DETAIL)

PLACE MINIMUM 12.50' OF ADSPLUS125 WOVEN GEOTEXTILE OVER BEDDING STONE AND UNDERNEATH CHAMBER FEET FOR SCOUR PROTECTION AT ALL CHAMBER INLET ROWS

BED LIMITS

NOTES

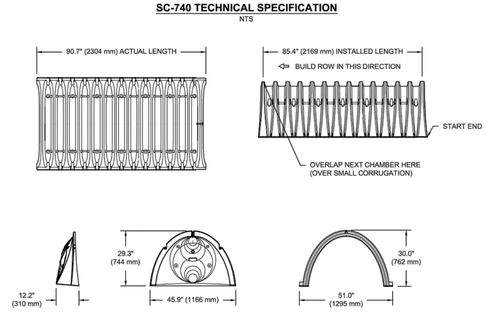
- MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECH NOTE #6.32 FOR MANIFOLD SIZING GUIDANCE.
- DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.
- THE SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET.
- THIS CHAMBER SYSTEM WAS DESIGNED WITHOUT SITE-SPECIFIC INFORMATION ON SOIL CONDITIONS OR BEARING CAPACITY. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR DETERMINING THE SUITABILITY OF THE SOIL AND PROVIDING THE BEARING CAPACITY OF THE INSITU SOILS. THE BASE STONE DEPTH MAY BE INCREASED OR DECREASED ONCE THIS INFORMATION IS PROVIDED.
- **NOT FOR CONSTRUCTION:** THIS LAYOUT IS FOR DIMENSIONAL PURPOSES ONLY TO PROVE CONCEPT & THE REQUIRED STORAGE VOLUME CAN BE ACHIEVED ON SITE.

SPACE INTENTIONALLY LEFT BLANK

SPACE INTENTIONALLY LEFT BLANK

SC-740 TECHNICAL SPECIFICATION

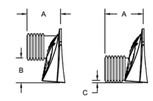
NTS



NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	51.0" X 30.0" X 85.4"	(1295 mm X 762 mm X 2169 mm)
CHAMBER STORAGE	45.9 CUBIC FEET	(1.30 m³)
MINIMUM INSTALLED STORAGE*	74.9 CUBIC FEET	(2.12 m³)
WEIGHT	75.0 lbs.	(33.6 kg)

*ASSUMES 6" (152 mm) STONE ABOVE, BELOW, AND BETWEEN CHAMBERS



PRE-FAB STUB AT BOTTOM OF END CAP WITH FLAMP END WITH "BR"
PRE-FAB STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
PRE-FAB STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"
PRE-CORED END CAPS END WITH "PC"

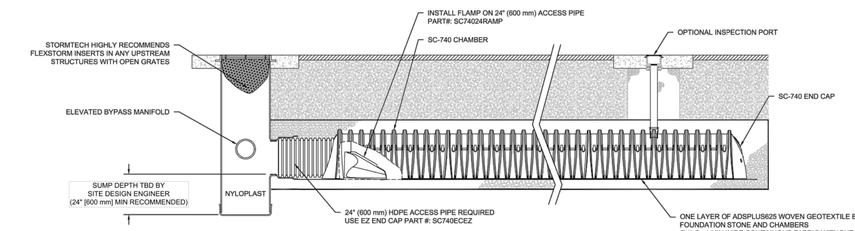
PART #	STUB	A	B	C
SC740EPE06T / SC740EPE06TPC	6" (150 mm)	10.9" (277 mm)	18.5" (470 mm)	---
SC740EPE06B / SC740EPE06BPC			---	0.5" (13 mm)
SC740EPE08T /SC740EPE08TPC	8" (200 mm)	12.2" (310 mm)	16.5" (419 mm)	---
SC740EPE08B / SC740EPE08BPC			---	0.6" (15 mm)
SC740EPE10T / SC740EPE10TPC	10" (250 mm)	13.4" (340 mm)	14.5" (368 mm)	---
SC740EPE10B / SC740EPE10BPC			---	0.7" (18 mm)
SC740EPE12T / SC740EPE12TPC	12" (300 mm)	14.7" (373 mm)	12.5" (318 mm)	---
SC740EPE12B / SC740EPE12BPC			---	1.2" (30 mm)
SC740EPE15T / SC740EPE15TPC	15" (375 mm)	18.4" (467 mm)	9.0" (229 mm)	---
SC740EPE15B / SC740EPE15BPC			---	1.3" (33 mm)
SC740EPE18T / SC740EPE18TPC	18" (450 mm)	19.7" (500 mm)	5.0" (127 mm)	---
SC740EPE18B / SC740EPE18BPC			---	1.6" (41 mm)
SC740ECEZ*	24" (600 mm)	18.5" (470 mm)	---	0.1" (3 mm)

ALL STUBS, EXCEPT FOR THE SC740ECEZ ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2694.

* FOR THE SC740ECEZ THE 24" (600 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 1.75" (44 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL..

NOTE: ALL DIMENSIONS ARE NOMINAL

2 SC-740 TECHNICAL SPECIFICATION



SC-740 ISOLATOR ROW PLUS DETAIL

NTS

3 SC-740 ISOLATOR ROW PLUS DETAIL

SPACE INTENTIONALLY LEFT BLANK

INSPECTION & MAINTENANCE

STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
  - A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
  - A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
  - A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
  - A.4. LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
  - A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR PLUS ROWS
  - B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
  - B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
    - i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
    - ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
  - B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45° (1.1 m) OR MORE IS PREFERRED
- B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
- C. VACUUM STRUCTURE SUMP AS REQUIRED

STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

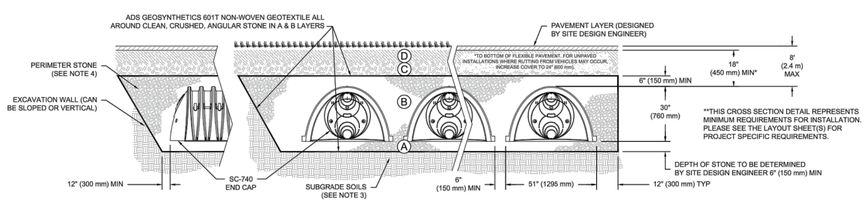
NOTES

1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 CHAMBER SYSTEMS

	MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	**FINAL FILL:** FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	**INITIAL FILL:** FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145* A-1, A-2-4, A-3 OR AASHTO M43* 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
B	**EMBEDMENT STONE:** FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE[2]	AASHTO M43* 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	**FOUNDATION STONE:** FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE[2]	AASHTO M43* 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE.[2,3]

PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.
5. WHERE RECYCLED CONCRETE AGGREGATE IS USED IN LAYERS 'A' OR 'B' THE MATERIAL SHOULD ALSO MEET THE ACCEPTABILITY CRITERIA OUTLINED IN TECHNICAL NOTE 6.20 "RECYCLED CONCRETE STRUCTURAL BACKFILL".



NOTES:

1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
2. SC-740 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 550 LBS/FT/% THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

1 SC-740 CROSS SECTION DETAIL

DRAWN: DC
CHECKED: N/A
DATE:
PROJECT #:
REV:
NOT TO SCALE

TOOELE SEMINARY
TOOELE, UT, USA

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Chamber System
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SHEET
1 OF 1

bhd ARCHITECTS
www.bhdarchitects.com
Phone 801.571.0010
Fax 801.571.0303
Toll Free 888.571.0010
65 East Wadsworth Park Drive
Suite 205 Draper, Utah 84020

PROFESSIONAL ENGINEER
04-08-24
No. 11988925-2202
DANIEL J. CANNING
STATE OF UTAH

McNEIL ENGINEERING
8410 South Sandy Parkway, Suite 200
Sandy, Utah 84070
801.255.7700 mcneilengineering.com
PROJECT NO. 24119

THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

Tooele UT Deseret Peak Sr Seminary

Approximately 2234 North Berra Boulevard, Tooele, Utah
40.569494, -112.303347

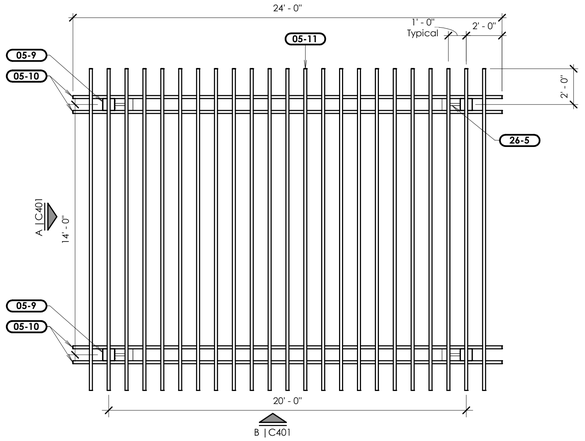
Owner #: 501-3450
Plan Series: Custom 5 CR
County Parcel: 02-143-0-0115
BHD #: 2326
Date: 3 Apr 2024

Drawing Issue and Revision Schedule		
#	Date	Description
1	3 Apr 2024	Bid Documents

Civil Details

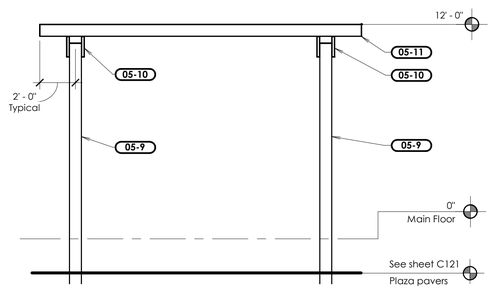
C503

Printed: 8 Apr 2024 2:46 PM



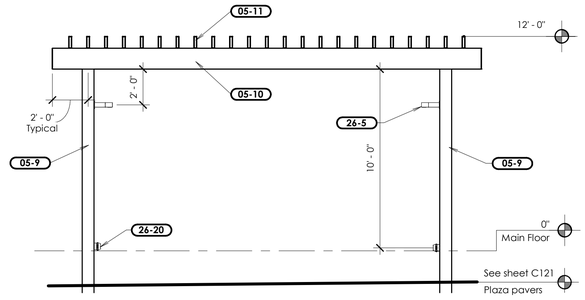
1 Plaza Pergola Floor Plan

Scale: 1/4" = 1'-0"



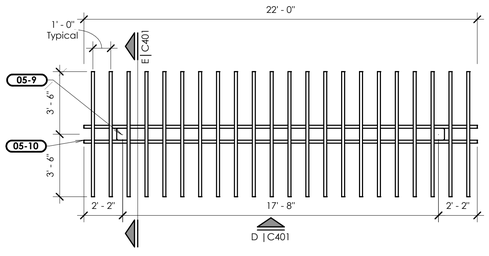
A Plaza Pergola Front Elevation

Scale: 1/4" = 1'-0"



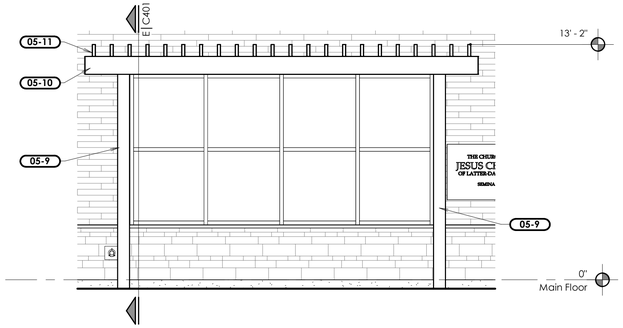
B Plaza Pergola Side Elevation

Scale: 1/4" = 1'-0"



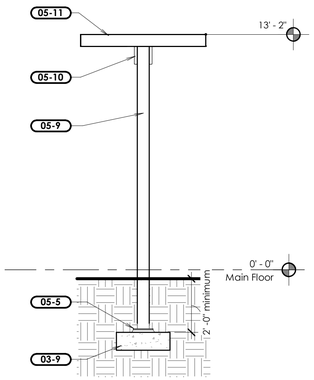
C Window Pergola Floor Plan

Scale: 1/4" = 1'-0"



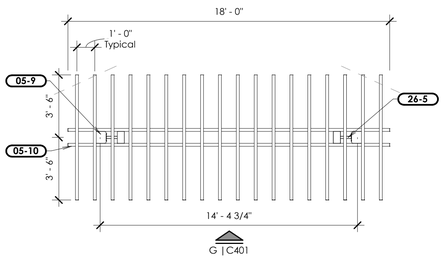
D Window Pergola Elevation

Scale: 1/4" = 1'-0"



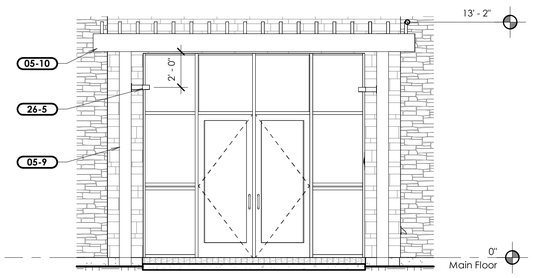
E Typical Pergola Section

Scale: 1/4" = 1'-0"



F Entry Door Pergola Floor Plan

Scale: 1/4" = 1'-0"



G Entry Door Pergola Elevation

Scale: 1/4" = 1'-0"

General Notes

1. All components and connections of the pergolas shall be verified and designed by an engineer employed by the contractor or fabricator. Submittals shall include stamped and engineered drawings to be submitted to the Architect and the City for approval.
2. All steel components shall be shop zinc primed and powder coated. Powder coat color shall be selected by the Architect from the manufacturer's standard colors. All components shall be welded prior to powder coating and all holes required for connections shall be drilled prior to powder coating.
3. Beam and purlin components of the pergolas shall be fabricated to be one unit to be installed on columns with concealed connections.
4. Install weep holes as required. Where weep holes can be plugged without risk of internal condensation settling, provide plastic plugs to match the powder coat color.
5. Install welded end caps on all exposed ends of tube steel.
6. Grind all exposed welds smooth.
7. Dimensions shown to the building wall are to the face of the concrete foundation wall.
8. All tube steel seams on the pergola are to face inward to reduce visibility.

Keyed Notes

03-9	Pergola footing to be designed by the pergola engineer and installed by the contractor. Provide minimum frost depth and 2' minimum depth from top of footing to finished grade.
05-5	5/8" x 14" x 14" steel base plate. Verify size and thickness with the fabricator's engineer. Provide hole in base plate as necessary to allow for electrical conduit.
05-9	8" x 8" x 1/4" steel pipe column with welded cap. Typical of all pergola columns. Verify size and thickness with the fabricator's engineer.
05-10	14" x 2" x 1/4" steel pipe beam. Verify thickness with the fabricator's engineer.
05-11	8" x 2" x 1/4" steel pipe purlin. Space purlins at 12" on center. Verify thickness with the fabricator's engineer.
26-5	Light fixture. See electrical sheets.
26-20	Electrical outlet. See electrical sheets.

bhd ARCHITECTS
www.bhdarchitects.com
Phone 801.571.0010
Fax 801.571.0303
Toll Free 888.571.0010
65 East Wadsworth Park Drive
Suite 205 Draper, Utah 84020

LICENSED ARCHITECT Lafe Theodore Harris 6923899-0301 STATE OF UTAH 3 Apr 2024

THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

Tooele UT Deseret Peak Sr Seminary

Approximately 2234 North Berra Boulevard, Tooele, Utah
40.569694, -112.303347

BHD #: 2326
County Parcel: 02-143-0-0115
Plan Series: Custom 5 CR
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Sheet Issue and Revision Schedule

#	Date	Description
1	3 Apr 2024	Bid Documents

Pergolas Floor Plans and Elevations

C401

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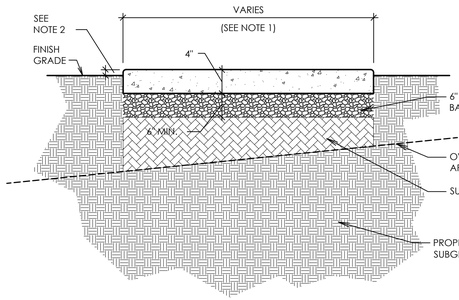
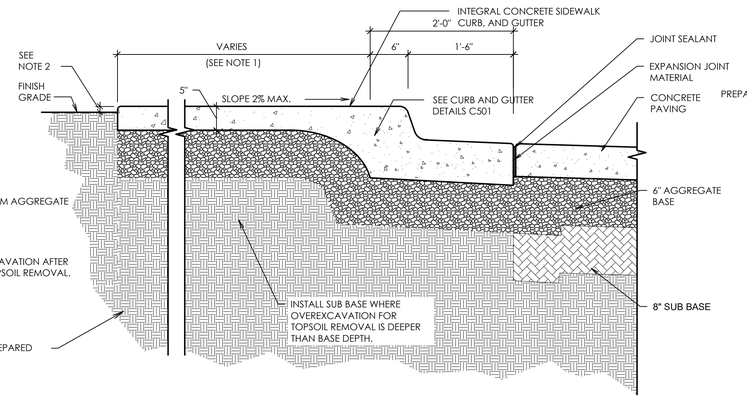
GENERAL NOTES

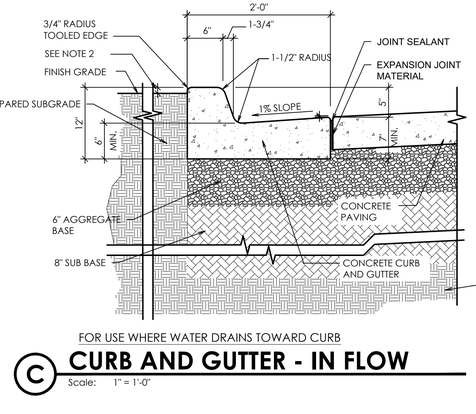
1. SEE SITE PLAN FOR MOW STRIP AND SIDEWALK LOCATIONS AND WIDTHS.
2. 1" PRIOR TO SEEDING, 2" PRIOR TO SODDING AND 4" IN PLANTING AREAS.
3. EXPANSION JOINT MATERIAL SHALL BE RECESSED 1/4" WHERE SEALANT IS NOT APPLIED, AND 1/2" WHERE SEALANT IS APPLIED.
4. EPOXY-COATED REINFORCEMENT STEEL BARS SHALL BE USED FOR ALL CONCRETE REINFORCING USED FOR ALL SITE CONCRETE ELEMENTS.



A SIDEWALK DETAIL
Scale: 1" = 1'-0"

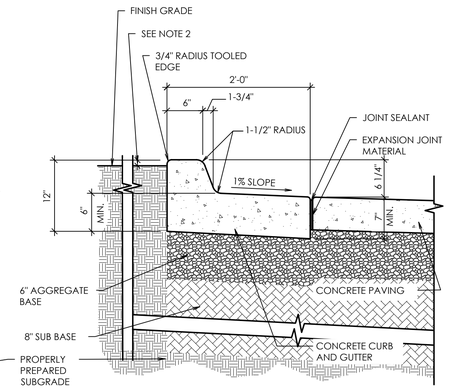


B INTEGRAL SIDEWALK, CURB AND GUTTER
Scale: 1" = 1'-0"



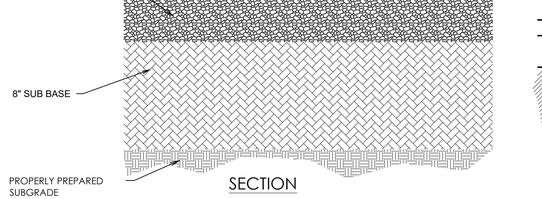
FOR USE WHERE WATER DRAINS TOWARD CURB

C CURB AND GUTTER - IN FLOW
Scale: 1" = 1'-0"

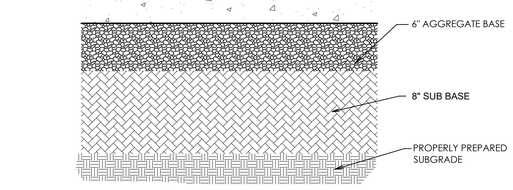


FOR USE WHERE WATER DRAINS AWAY FROM CURB

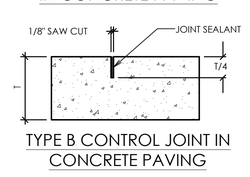
D CURB AND GUTTER - OUT FLOW
Scale: 1" = 1'-0"



E CURB TRANSITION
Scale: Not to Scale



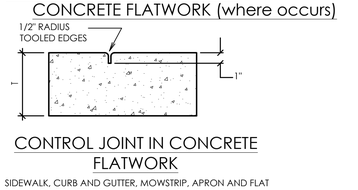
F ONSITE CONCRETE PAVING DETAIL
Scale: 1" = 1'-0"



TYPE A EXPANSION JOINT IN CONCRETE PAVING

TYPE B CONTROL JOINT IN CONCRETE PAVING

G TYPICAL PAVING JOINT DETAILS
Scale: 1" = 1'-0"

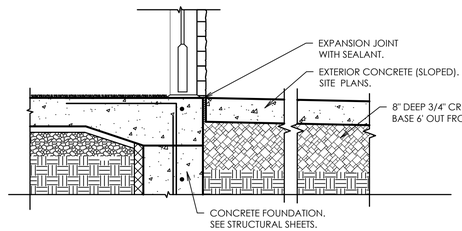


TYPICAL EXPANSION JOINT IN CONCRETE FLATWORK (where occurs)

CONTROL JOINT IN CONCRETE FLATWORK

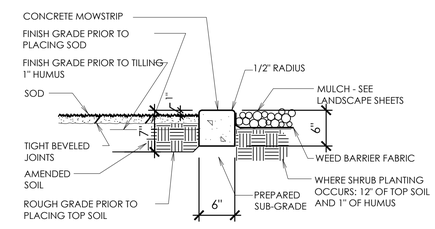
SIDEWALK, CURB AND GUTTER, MOWSTRIP, APRON AND FLAT DRAINAGE STRUCTURES AND MECHANICAL ENCLOSERS

H TYPICAL CONCRETE FLATWORK JOINT DETAILS
Scale: Not to Scale

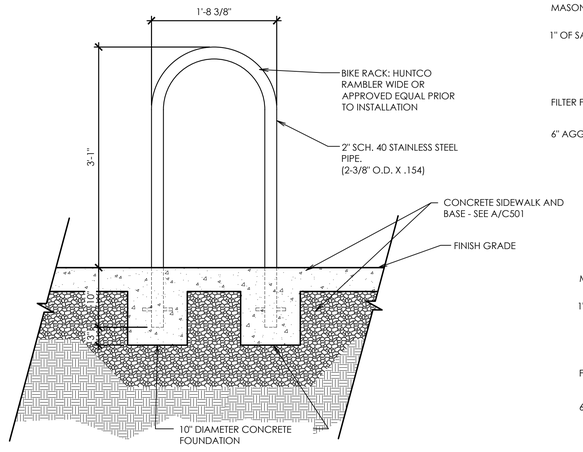


J TYPICAL ENTRY AT DOOR
Scale: 1" = 1'-0"

NOTES:
1. MOWSTRIP SHALL BE CAST-IN-PLACE AND POURED USING TYPICAL WEIGHT STRUCTURAL CONCRETE.
2. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE AROUND MOWSTRIPS - DO NOT CREATE A DAM EFFECT WITH PLACEMENT OF MOWSTRIP.
3. MAXIMUM 1/2" WIDTH VARIATION.
4. PRECISELY FOLLOW LAYOUT AS SHOWN ON THE SITE ARCHITECTURAL PLAN. AND LANDSCAPE PLAN.



K CONCRETE MOW STRIP
Scale: 1" = 1'-0"



L BICYCLE RACK
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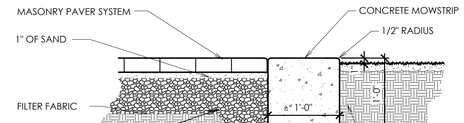
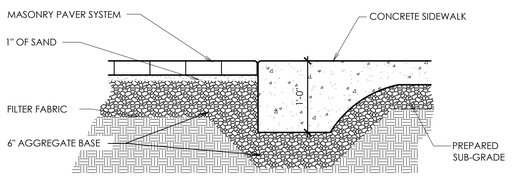


M CONCRETE MOW STRIP/ PAVERS
Scale: 1" = 1'-0"



N CONCRETE SIDEWALK/ PAVERS
Scale: 1" = 1'-0"

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LICENSED ARCHITECT Lafe Theodore Harris 3 Apr 2024 6023899-0301 STATE OF UTAH

THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

Tooele UT Deseret Peak Sr Seminary

Approximately: 2234 North Berra Boulevard, Tooele, Utah
40.569694, -112.300347

BHD #: 2326
County Parcel: 02-143-0-0115
Plan Series: Custom SCR
Owner #: 501-3450
Date: 3 Apr 2024

Drawing Issue and Revision Schedule		
#	Date	Description
1	3 Apr 2024	Bid Documents

Site Details

C511

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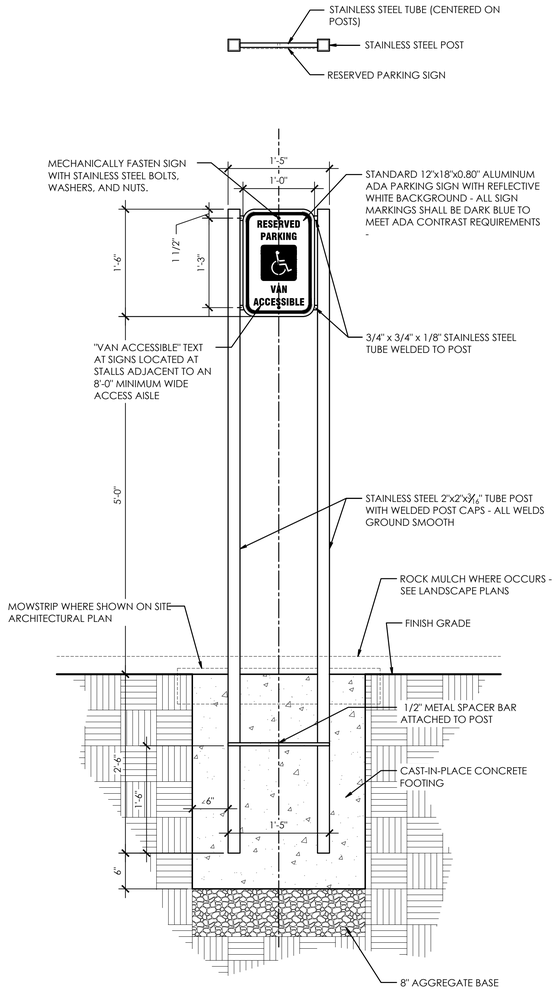
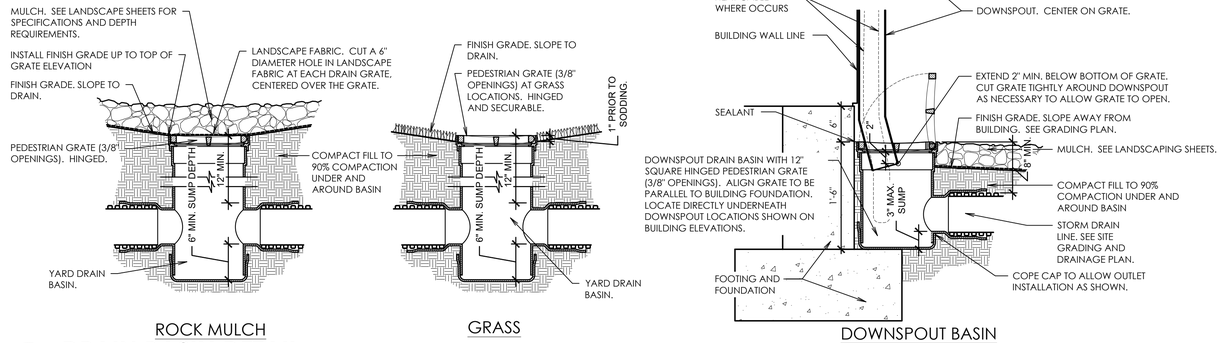


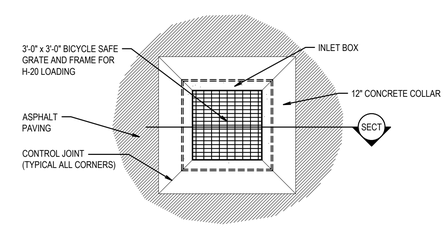
A ACCESSIBLE PARKING SIGN

Scale: 1" = 1'-0"



© DRAIN BASIN DETAIL

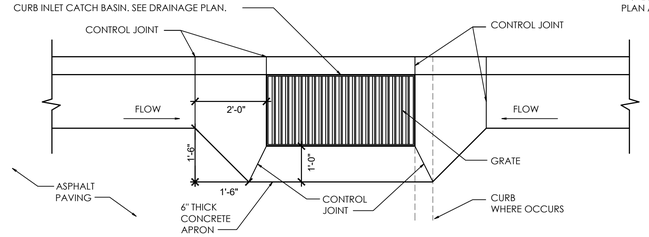
Scale: 1" = 1'-0"



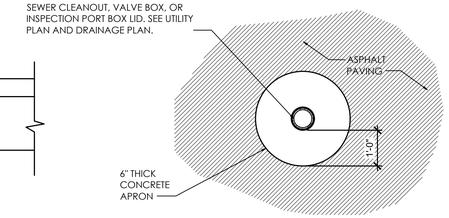
NOTES:
1. GRATE AND FRAMES SHALL BE HOT-DIPPED GALVANIZED.
2. DOWEL LAPS SHALL BE 24".
3. COAT ALL METAL PARTS WITH ASPHALTUM PAINT.

D CONCRETE COLLARS AND APRONS

Scale: NOT TO SCALE

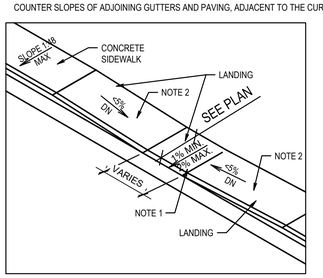


CURB INLET

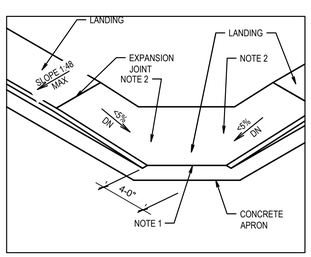


SEWER CLEANOUT, VALVE BOX, INSPECTION PORT

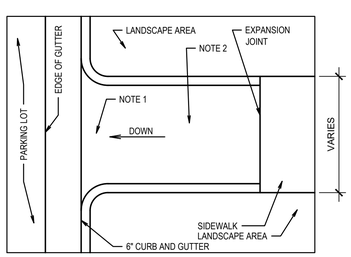
NOTES:
1. UNLESS REQUIRED OTHERWISE BY THE AUTHORITY HAVING JURISDICTION, USE A LIGHT BROOM FINISH ON RAMPS AND LANDINGS TO MATCH THE FINISHES ON THE SIDEWALKS.
2. 5% (MAXIMUM) IN DIRECTION OF TRAVEL. LIMIT CROSS SLOPE ON SIDEWALKS 2%.
3. ALL LANDINGS MUST HAVE 1:48 CROSS SLOPE AND RUNNING SLOPE. LANDING MUST BE AS WIDE AS THE RAMP.
4. CROSS SLOPE ON RAMP MUST BE 1:48 OR LESS.
5. COUNTER SLOPES OF ADJOINING GUTTERS AND PAVING, ADJACENT TO THE CURB RAMP SHALL NOT BE STEEPER THAN 1:20 (5%).



TYPE B



TYPE D



TYPE E

E ACCESSIBLE SLOPED SIDEWALKS

Scale: not to scale

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LICENSED ARCHITECT Lafe Theodore Harris 6023899-0301 STATE OF UTAH 3 Apr 2024

THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

Tooele UT Deseret Peak Sr Seminary

Approximately 2234 North Berra Boulevard, Tooele, Utah
40.569494, -112.303347

Date: 3 Apr 2024
BHD #: 2326
County Parcel: 02-143-0-0115
Plan Series: Custom SCR
Owner #: 501-3450

Drawing Issue and Revision Schedule

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1	3 Apr 2024	Bid Documents

Site Details

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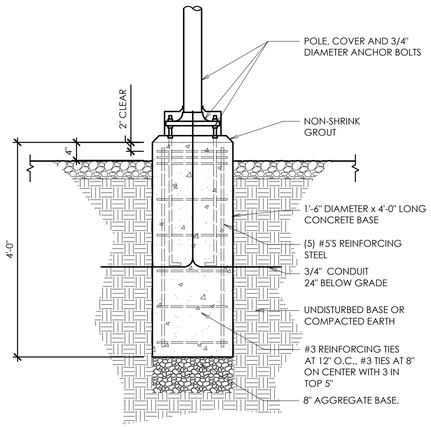
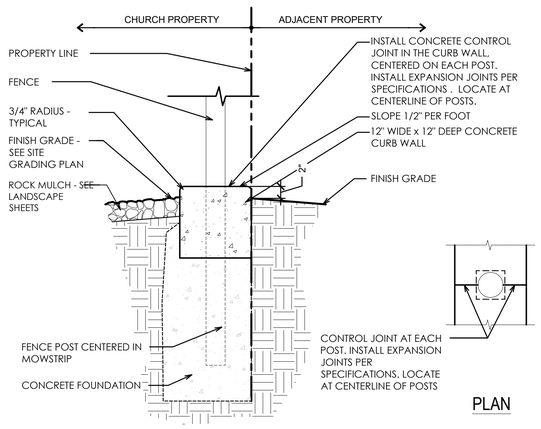


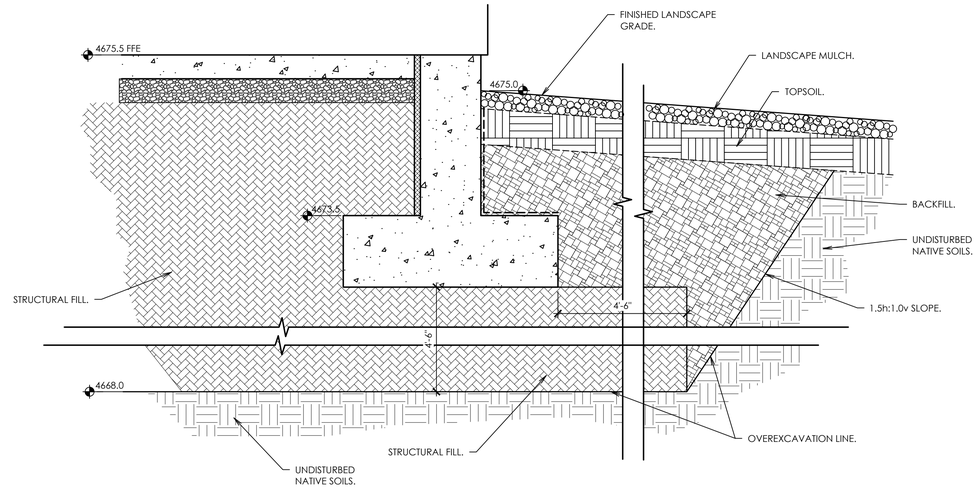
D POLE LIGHT BASE IN LANDSCAPING AREAS

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



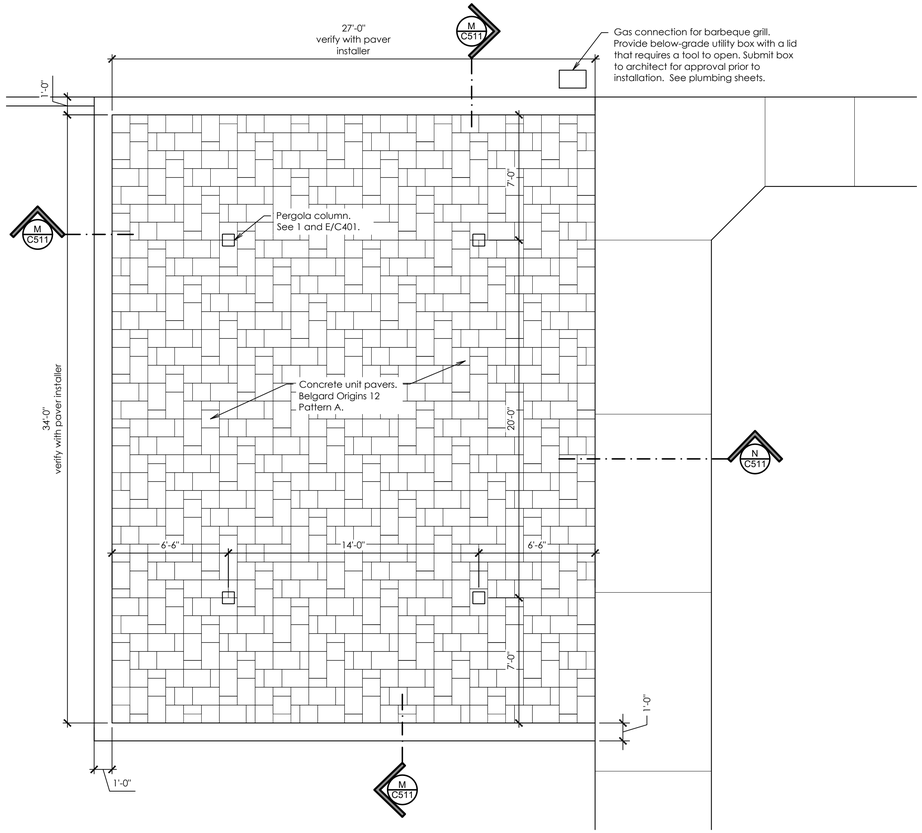
B FENCE AND MOWSTRIP DETAIL

Scale: 1" = 1'-0"



C OVEREXCAVATION DETAIL

Scale: 1" = 1'-0"



1 PAVER LAYOUT PLAN

Scale: 1/4" = 1'-0"

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LICENSED ARCHITECT Lafe Theodore Harris 3 Apr 2024 6323899-0301 STATE OF UTAH

THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

Tooele UT Deseret Peak Sr Seminary

Approximately 2234 North Reno Boulevard, Tooele, Utah
40.569694, -112.303347

Date: 3 Apr 2024	**BHD #:** 2326	**County Parcel:** 02-143-0-0115	**Plan Series:** Custom SCR
			Owner #: 501-3450

Drawing Issue and Revision Schedule

#	Date	Description
1	3 Apr 2024	Bid Documents

Site Details

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GENERAL NOTES

1.1 COMPLIANCE

1. ALL WORK TO CONFORM TO GOVERNING MUNICIPALITY'S STANDARDS, SPECIFICATIONS AND REQUIREMENTS.
2. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THESE CONTRACT DOCUMENTS AND THE MOST RECENT, ADOPTED EDITIONS OF THE FOLLOWING: INTERNATIONAL BUILDING CODE (IBC), THE INTERNATIONAL PLUMBING CODE, STATE DRINKING WATER REGULATIONS, APWA MANUAL OF STANDARD PLANS AND SPECIFICATIONS, ADA ACCESSIBILITY GUIDELINES.
3. ALL CONSTRUCTION SHALL BE AS SHOWN ON THESE PLANS. ANY REVISIONS MUST HAVE PRIOR WRITTEN APPROVAL.

1.2 PERMITTING AND INSPECTIONS

1. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING SURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED THOROUGHLY REVIEWED PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES.
2. CONTRACTOR IS RESPONSIBLE FOR SCHEDULING AND NOTIFYING ARCHITECT/ENGINEER OR INSPECTING AUTHORITY 48 HOURS IN ADVANCE OF COVERING UP ANY PHASE OF CONSTRUCTION REQUIRING OBSERVATION.
3. ANY WORK IN THE PUBLIC RIGHT-OF-WAY WILL REQUIRE PERMITS FROM THE APPROPRIATE, CITY, COUNTY OR STATE AGENCY CONTROLLING THE ROAD AND WITH APPROPRIATE INSPECTIONS.

1.3 COORDINATION & VERIFICATION

1. ALL DIMENSIONS, GRADES & UTILITY DESIGNS SHOWN ON THE PLANS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN OR GRADE CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS, IF NOT VERIFIED AND NOTIFICATION OF CONFLICTS HAVE NOT BEEN BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER.
2. CONTRACTOR MUST VERIFY ALL EXISTING CONDITIONS BEFORE BIDDING AND BRING UP ANY QUESTIONS BEFOREHAND. NO ALLOWANCE WILL BE MADE FOR DISCREPANCIES OR OMISSIONS THAT CAN BE EASILY OBSERVED.
3. CONTRACTOR TO COORDINATE WITH ALL OTHER DISCIPLINES, INCLUDING BUT NOT LIMITED TO: LANDSCAPE PLANS, SITE ELECTRICAL SITE LIGHTING PLANS AND ELECTRICAL SERVICE TO THE BUILDING(S), MECHANICAL PLANS FOR LOCATION OF SERVICES TO THE BUILDING(S), INCLUDING FIRE PROTECTION, ARCHITECTURAL SITE PLAN FOR DIMENSIONS, ACCESSIBLE ROUTES, ETC., NOT SHOWN ON CIVIL PLANS.
4. CONTRACTOR IS TO COORDINATE LOCATION OF NEW TELEPHONE SERVICE, GAS SERVICE, CABLE, ETC. TO BUILDING WITH THE APPROPRIATE UTILITY COMPANY. FOR TELEPHONE, CONTRACTOR TO FURNISH CONDUIT, PLYWOOD BACKBOARD, AND GROUND WIRE, AS REQUIRED.

1.4 SAFETY AND PROTECTION

1. CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION.
2. CONTRACTOR IS RESPONSIBLE FOR THE SAFETY OF THE PROJECT AND SHALL MEET ALL OSHA REQUIREMENTS.
3. CONTRACTOR IS RESPONSIBLE FOR CONFORMING TO LOCAL AND FEDERAL CODES GOVERNING SHORING AND BRACING OF EXCAVATIONS AND TRENCHES, AND FOR THE PROTECTION OR WORKERS AND PUBLIC.
4. CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO PROTECT ALL EXISTING PUBLIC AND PRIVATE PROPERTY, ROADWAYS, AND UTILITY IMPROVEMENTS. DAMAGE TO EXISTING IMPROVEMENTS CAUSED BY THE CONTRACTOR MUST BE REPAIRED BY THE CONTRACTOR AT HIS/HER EXPENSE TO THE SATISFACTION OF THE OWNER OF SAID IMPROVEMENTS.
5. CONTRACTOR IS REQUIRED TO KEEP ALL CONSTRUCTION ACTIVITIES WITHIN THE APPROVED PROJECT LIMITS. THIS INCLUDES, BUT IS NOT LIMITED TO, VEHICLE AND EQUIPMENT STAGING, MATERIAL STORAGE AND LIMITS OF TRENCH EXCAVATION.
6. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN PERMISSION AND/OR EASEMENTS FROM THE APPROPRIATE GOVERNMENT AGENCY AND/OR INDIVIDUAL PROPERTY OWNER(S) FOR WORK OR STAGING OUTSIDE OF THE PROJECT LIMITS.
7. CONTRACTOR SHALL PROVIDE BARRICADES, SIGNS, FLASHERS, OTHER EQUIPMENT AND FLAG PERSONS NECESSARY TO INSURE THE SAFETY OF WORKERS AND VISITORS. ALL CONSTRUCTION SIGNING, BARRICADING, AND TRAFFIC DELINEATION SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LATEST EDITION.
8. CONTRACTOR SHALL COMPLY WITH LOCAL NOISE ORDINANCE STANDARDS.
9. CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL ACCORDING TO GOVERNING AGENCY STANDARDS.
10. CONTRACTOR SHALL TAKE ALL NECESSARY AND PROPER PRECAUTIONS TO PROTECT ADJACENT PROPERTIES FROM ANY AND ALL DAMAGE THAT MAY OCCUR FROM STORM WATER RUNOFF AND/OR DEPOSITION OF DEBRIS RESULTING FROM ANY AND ALL WORK IN CONNECTION WITH CONSTRUCTION. SUBMIT A STORM WATER POLLUTION PREVENTION PLAN, IF REQUIRED.
11. WORK IN PUBLIC STREETS, ONCE BEGUN, SHALL BE PROSECUTED TO COMPLETION WITHOUT DELAY AS TO PROVIDE MINIMUM INCONVENIENCE TO ADJACENT PROPERTY OWNERS AND TO THE TRAVELING PUBLIC.
12. CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITIONS BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES TO PROVIDE FOR PROPER DRAINAGE AND FOR INGRESS AND EGRESS TO NEW CONSTRUCTION.
13. NATURAL VEGETATION AND SOIL COVER SHALL NOT BE DISTURBED PRIOR TO ACTUAL CONSTRUCTION OF A REQUIRED FACILITY OR IMPROVEMENT. MASS CLEARING OF THE SITE IN ANTICIPATION OF CONSTRUCTION SHALL BE AVOIDED. CONSTRUCTION TRAFFIC SHALL BE LIMITED TO ONE APPROACH TO THE SITE. THE APPROACH SHALL BE DESIGNATED BY THE OWNER OR GOVERNING AGENCY.
14. THE CONTRACTOR SHALL TAKE REASONABLE MEASURE TO PROTECT EXISTING IMPROVEMENTS FROM DAMAGE AND ALL SUCH IMPROVEMENTS DAMAGED BY THE CONTRACTOR'S OPERATION SHALL BE REPAIRED OR RECONSTRUCTED TO THE ENGINEER/OWNER'S SATISFACTION AT THE EXPENSE OF THE CONTRACTOR.

1.5 MATERIALS

1. SITE CONCRETE SHALL BE A MINIMUM 6.5 BAG MIX, 4500 P.S.I. @ 28 DAYS, 4" MAXIMUM SLUMP WITH 5 + OR - 1% AIR ENTRAINMENT, UNLESS SPECIFIED OTHERWISE. -SEE SPECIFICATION
   A. SLABS-ON-GRADE WILL BE TYPICALLY SCORED (1/4 THE DEPTH) AT INTERVALS NOT TO EXCEED THEIR WIDTH OR 12 TIMES THEIR DEPTH, WHICHEVER IS LESS. SCORING WILL BE PLACED TO PREVENT RANDOM CRACKING. FULL DEPTH EXPANSION JOINTS WILL BE PLACED AGAINST ANY OBJECT DEEMED TO BE FIXED, CHANGES IN DIRECTION AND AT EQUAL INTERVALS NOT TO EXCEED 50 FEET.
   B. CONCRETE WATERWAYS, CURBWALLS, MOWSTRIPS, CURB AND GUTTER, ETC. WILL TYPICALLY BE SCORED (1/4 THE DEPTH AT INTERVALS NOT TO EXCEED 10 FEET AND HAVE FULL DEPTH EXPANSION JOINTS AT EQUAL SPACING NOT TO EXCEED 50 FEET.
   C. UNLESS OTHERWISE NOTED, ALL SLABS-ON-GRADE WILL HAVE A MINIMUM 8" TURNED-DOWN EDGE TO HELP CONTROL FROST HEAVE.
   D. UNLESS OTHERWISE NOTED, ALL ON-GRADE CONCRETE WILL BE PLACED ON A MINIMUM 4" GRAVEL BASE OVER A WELL COMPACTED (90%) SUBGRADE.
   E. ALL EXPOSED SURFACES WILL HAVE A TEXTURED FINISH, RUBBED OR BROOMED. ANY "PLASTERING" OF NEW CONCRETE WILL BE DONE WHILE IT IS STILL "GREEN".
   F. ALL JOINTS (CONTROL, CONSTRUCTION OR EXPANSION JOINTS, ETC.) WILL BE SEALED WITH A ONE PART POLYURETHANE SEALANT (SEE SPECIFICATION).
2. ASPHALTIC CONCRETE PAVEMENT SHALL BE A MINIMUM 3" OVER 8" OF COMPACTED (95%) ROAD BASE OVER PROPERLY PREPARED AND COMPACTED (90%) SUBGRADE. UNLESS NOTED OTHERWISE. -SEE SPECIFICATIONS, AND DETAIL "D1" SHEET C5.01
   A. ASPHALT COMPACTION SHALL BE A MINIMUM 96% (MARSHALL DESIGN).
   B. SURFACE COARSE SHALL BE ½ " MINUS. MIX DESIGN TO BE SUBMITTED FOR APPROVAL AT LEAST TWO WEEKS PRIOR TO ANTICIPATED PAVING SCHEDULE.
   C. AC PAVEMENT TO BE A ½" ABOVE LIP OF ALL GUTTER AFTER COMPACTION.
   D. THICKNESSES OVER 3" WILL BE LAID IN TWO LIFTS WITH THE FIRST LIFT BEING AN APPROVED ¾" MINUS DESIGN.

1.6 GRADING / SOILS

1. SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE SOILS REPORT, WHICH BY REFERENCE ARE A PART OF THE REQUIRED CONSTRUCTION DOCUMENTS AND IN CASE OF CONFLICT SHALL TAKE PRECEDENCE. UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS, OR IN THE SPECIFICATIONS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCY BETWEEN THE SOILS REPORT AND THESE PLANS AND SPECIFICATIONS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REPLACING ALL SOFT, YIELDING OR UNSUITABLE MATERIALS AND REPLACING WITH SUITABLE MATERIALS AS SPECIFIED IN THE SOILS REPORT.
3. ALL EXCAVATED OR FILLED AREAS SHALL BE COMPACTED TO 95% OF MODIFIED PROCTOR MAXIMUM DENSITY PER ASTM TEST D-1557, EXCEPT UNDER BUILDING FOUNDATIONS WHERE IT SHALL BE 98% MIN. OF MAXIMUM DENSITY. MOISTURE CONTENT AT TIME OF PLACEMENT SHALL NOT EXCEED 2% ABOVE NOR 3% BELOW OPTIMUM.
4. CONTRACTOR SHALL SUBMIT A COMPACTION REPORT PREPARED BY A QUALIFIED REGISTERED SOILS ENGINEER, VERIFYING THAT ALL FILLED AREAS AND SUBGRADE AREAS WITH THE BUILDING PAD AREA AND AREAS TO BE PAVED, HAVE BEEN COMPACTED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE SOILS REPORT.
5. SITE CLEARING SHALL INCLUDE THE LOCATING AND REMOVAL OF ALL UNDERGROUND TANKS, PIPES, VALVES, ETC.
6. ALL EXISTING VALVES, MANHOLES, ETC. SHALL BE RAISED OR LOWERED TO GRADE AS REQUIRED.

GENERAL NOTES: CONTINUED

1.7 UTILITIES

1. THE LOCATIONS OF UNDERGROUND FACILITIES SHOWN ON THESE PLANS ARE BASED ON FIELD SURVEYS AND LOCAL UTILITY COMPANY RECORDS. IT SHALL BE THE CONTRACTOR'S FULL RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES EITHER DIRECT OR THROUGH BLUE STAKE TO LOCATE THEIR FACILITIES PRIOR TO STARTING CONSTRUCTION.
2. CONTRACTOR TO VERIFY BY POTHOLING BOTH THE VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UTILITIES PRIOR TO INSTALLING ANY NEW LINES. NO ADDITIONAL COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR DAMAGE AND REPAIR TO THESE FACILITIES CAUSED BY HIS WORK FORCE.
3. CONTRACTOR MUST START AT LOW END OF ALL NEW GRAVITY UTILITY LINES. MECHANICAL SUB-CONTRACTOR MUST BE PROVIDED CIVIL SITE DRAWINGS FOR COORDINATION AND TO CHECK THE FLOW FROM THE LOWEST POINT IN BUILDING TO THE FIELD VERIFIED CONNECTION AT THE EXISTING MAIN. NO EXTRA COMPENSATION IS TO BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO FAILURE TO COMPLY WITH THESE REQUIREMENTS.
4. CONTRACTOR IS TO VERIFY LOCATION, DEPTH, SIZE, TYPE, AND OUTSIDE DIAMETERS OF UTILITIES IN THE FIELD BY POTHOLING A MINIMUM OF 300 FEET AHEAD, PIPELINE CONSTRUCTION TO AVOID CONFLICTS WITH DESIGNED PIPELINE GRADE AND ALIGNMENT. EXISTING UTILITY INFORMATION SHOWN ON PLANS OR OBTAINED FROM UTILITY COMPANIES OR BLUE STAKED MUST BE ASSUMED AS APPROXIMATE, REQUIRING FIELD VERIFICATION.
5. CULINARY WATER AND FIRE SERVICE LINES TO BE CONSTRUCTED IN ACCORDANCE WITH LOCAL GOVERNING MUNICIPALITY STANDARDS AND SPECIFICATIONS.
6. SANITARY SEWER MAINS AND LATERALS TO BE CONSTRUCTED IN ACCORDANCE WITH LOCAL GOVERNING MUNICIPALITY SEWER DISTRICT STANDARDS AND SPECIFICATIONS.
7. STORM SEWER TO BE CONSTRUCTED IN ACCORDANCE WITH THE GOVERNING MUNICIPALITY STANDARDS AND SPECIFICATIONS.
8. ALL STORM DRAIN AND IRRIGATION CONDUITS SHALL BE INSTALLED WITH WATER TIGHT JOINTS AND CONNECTIONS.
9. ALL STORM DRAIN PIPE PENETRATIONS INTO BOXES SHALL BE CONSTRUCTED WITH WATER TIGHT SEALS ON THE OUTSIDE AND GROUTED SMOOTH WITH A NON-SHRINK GROUT ON THE INSIDE. CONDUITS SHALL BE CUT OFF FLUSH WITH THE INSIDE OF THE BOX.
10. NO CHANGE IN THE DESIGN OF UTILITIES AS SHOWN WILL BE MADE BY THE CONTRACTOR WITHOUT THE WRITTEN APPROVAL OF THE GOVERNING MUNICIPALITY, OR OTHER AUTHORITY HAVING JURISDICTION OVER THAT UTILITY.
11. ALL STORM DRAIN CONDUITS AND BOXES SHALL BE CLEAN AND FREE OF ROCKS, DIRT, AND CONSTRUCTION DEBRIS PRIOR TO FINAL INSPECTION.

1.8 SURVEY CONTROL

1. CONTRACTOR MUST PROVIDE A REGISTERED LAND SURVEYOR OR PERSONS UNDER THE SUPERVISION OF A REGISTERED LAND SURVEYOR TO SET STAKES FOR THE ALIGNMENT AND GRADE OF EACH MAIN AND/OR FACILITY AS SHOWN ON THE PLANS. THE STAKES SHALL BE MARKED WITH THE HORIZONTAL LOCATION (STATION) AND VERTICAL LOCATION (GRADE) WITH CUTS AND/OR FILLS TO THE APPROVED GRADE OF THE MAIN AND OR FACILITY AS SHOWN ON THE PLANS.
2. THE CONTRACTOR SHALL PROTECT ALL STAKES AND MARKERS FOR VERIFICATION PURPOSES.
3. CONTRACTOR WILL BE RESPONSIBLE FOR FURNISHING, MAINTAINING, OR RESTORING ALL MONUMENTS AND REFERENCE MARKS WITHIN THE PROJECT SITE.

1.9 AMERICAN DISABILITIES ACT

1. PEDESTRIAN / ADA ROUTES SHALL MEET THE FOLLOWING SPECIFICATIONS:
   *ROUTES SHALL HAVE A 2.08% (1:48) MAXIMUM CROSS SLOPE.
   *ROUTES SHALL HAVE A 5.00% (1:20) MAXIMUM RUNNING SLOPE.
   *RAMPS SHALL HAVE A 8.33% (1:12) MAXIMUM RUNNING SLOPE.
2. ADA PARKING STALLS AND ADJACENT ROUTES SHALL HAVE A 2.08% (1:48) MAXIMUM SURFACE SLOPE IN ANY DIRECTION.
3. THE CONTRACTOR SHALL ADHERE TO THE ABOVE SPECIFICATIONS. IN THE EVENT OF A DISCREPANCY IN THE CONSTRUCTION DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO ANY CONSTRUCTION.

LEGEND

NEW	EXISTING	
		MONUMENT LINE
		CENTER LINE
		SUBJECT PROPERTY LINE
		ADJACENT PROPERTY LINE
		EASEMENT LINE
		DITCH FLOWLINE
X	X	FENCE LINE
ATMS	atms	ATMS CABLE
TV	tv	CABLE TV LINE
C	c	COMMUNICATIONS LINE
FO	fo	FIBER-OPTIC CABLE
F	f	FIRE LINE
IRR	irr	IRRIGATION LINE
G	g	NATURAL GAS LINE
OHC	ohc	OVERHEAD COMMUNICATIONS
OHP	ohp	OVERHEAD POWER LINE
OHT	oht	OVERHEAD TELEPHONE LINE
OHTV	ohtv	OVERHEAD TELEVISION LINE
P	p	POWER LINE
P/C	p/c	POWER/COMMUNICATIONS LINE
P/T	p/t	POWER/TELEPHONE LINE
P/T/C	p/t/c	POWER/TELE/COMM LINE
RD	rd	ROOF DRAIN LINE
SW	sw	SECONDARY WATER LINE
S	s	SANITARY SEWER LINE
ST	st	STEAM LINE
SD	sd	STORM DRAIN LINE
T	t	TELEPHONE LINE
T/C	t/c	TELEPHONE/COMM LINE
UD	ud	UNDERDRAIN
UGC	ugc	UNDERGROUND COMMUNICATIONS
UGP	ugp	UNDERGROUND POWER LINE
UGT	ugt	UNDERGROUND TELEPHONE LINE
UGTV	ugtv	UNDERGROUND TELEVISION
W	w	WATER LINE
72	6572	CONTOUR LINE
		CURB & GUTTER (STD)
		CURB & GUTTER (OUTFALL)

NEW	EXISTING	
		SECTION CORNER (FOUND)
		SECTION CORNER (NOT FOUND)
		STREET MONUMENT
		BRASS CAP MONUMENT
		POWER POLE
		UTILITY POLE
GUY	GUY	GUY ANCHOR
TRANS	TRANS	POWER TRANSFORMER
		TRAFFIC SIGNAL CABINET
		LIGHT POLE
TR	TR	TELEPHONE RISER
T	T	TELEPHONE MANHOLE
		TRAFFIC SIGNAL BOX
W	W	WATER MANHOLE
		WATER VALVE
WM	WM	WATER METER
		FIRE HYDRANT
S	S	SANITARY SEWER MANHOLE
SSCO	SSCO	SANITARY SEWER CLEANOUT
SD	SD	STORM DRAIN MANHOLE
		STORM DRAIN CURB INLET
		STORM DRAIN CATCH BASIN
SD	SD	STORM DRAIN CLEANOUT
		STORM DRAIN COMBO BOX
MB	MB	MAILBOX
		SIGN
		FLOW DIRECTION
44.00 TOC	44.00 EX TOC	SPOT ELEVATION
		CONIFEROUS TREE
		DECIDUOUS TREE

ABBREVIATIONS

AC	ACRE	DIP	DUCTILE IRON PIPE	GM	GAS METER	PCC	POINT OF COMPOUND CURVE	T	TOWNSHIP
ADA	AMERICANS WITH DISABILITIES ACT	DTREE	DECIDUOUS TREE	GMH	GAS MANHOLE	PI	POINT OF INTERSECTION	TBC	TOP BACK OF CURB
ATMS	ADVANCED TRAFFIC MGMT. SYSTEM	DYL	DOUBLE YELLOW LINE	GUY	GUY WIRE	PM	PARKING METER	TELE	TELEPHONE
B&C	BAR & CAP	E	EAST	GV	GAS VALVE	PP	POWER POLE	TFC	TOP FACE OF CURB
BC	BUILDING CORNER	EB	ELECTRIC BOX	HDPE	HIGH DENSITY POLYETHYLENE	PRC	POINT OF REVERSE CURVE	TFG	TOP FINISH GRADE
BFG	BOTTOM FINISH GRADE	EGL	ENERGY GRADE LINE	HG	HEADGATE	PRK	PARKING STRIPE	TL	TREE LINE
BLUE	BLUE STAKED ELECTRIC	ELEV	ELEVATION	HGL	HYDRAULIC GRADE LINE	POC	POINT OF CONNECTION	TMH	TELEPHONE MANHOLE
BLUFO	BLUE STAKED FIBER OPTIC	EM	ELECTRIC METER	HP	HIGH POINT	PT	POINT OF TANGENCY	TOA	TOP OF ASPHALT
BLUG	BLUE STAKED NATURAL GAS	EMH	ELECTRIC MANHOLE	HW	HEADWALL or HIGH WATER	PWR	POWER	TOC	TOP OF CONCRETE
BLURR	BLUE STAKED IRRIGATION	EOA	EDGE OF ASPHALT	HWY	HIGHWAY	PVC	POLYVINYL CHLORIDE PIPE	TOF	TOP OF FOOTING
BLUSD	BLUE STAKED STORM DRAIN	EOC	EDGE OF CONCRETE	ICO	IRRIGATION CLEANOUT	R	RANGE	TOG	TOP OF GRATE
BLUSS	BLUE STAKED SANITARY SEWER	EOG	EDGE OF GRAVEL	ICV	IRRIGATION CONTROL VALVE	RCP	REINFORCED CONCRETE PIPE	TOE	TOE OF SLOPE
BLUT	BLUE STAKED TELEPHONE	EOL	EDGE OF LAWN	IE	INVERT ELEVATION	RD	ROOF DRAIN	TOP	TOP OF SLOPE or TOP OF PIPE
BLUW	BLUE STAKED WATER	EX or EXIST	EXISTING	IRR	IRRIGATION	REV	REVISION	TOW	TOP OF WALL
BM	BENCHMARK	F	FIRE	LF	LINEAR FEET	ROW	RIGHT-OF-WAY	TR	TELEPHONE RISER
BOF	BOTTOM OF FOOTING	FC	FOUNDATION CORNER	LIP	LIP OF GUTTER	RR	RAILROAD	TV	TELEVISION
BOB	BOTTOM OF BOX	FD	FOUND or FOUNDATION DRAIN	LP	LOW POINT or LIGHT POLE	S	SOUTH	TW	FINISH GRADE AT TOP OF WALL
BOL	BOLLARD	FDC	FIRE DEPT. CONNECTION	MAX	MAXIMUM	SAD	SEE ARCHITECTURAL DRAWINGS	TRANS	TRANSFORMER
BOT	BOTTOM	FDMN	FOUND MONUMENT	MIN	MINIMUM	SD	STORM DRAIN	TSP	TRAFFIC SIGNAL POLE
BOV	BLOW-OFF VALVE	FDSC	FOUND SECTION CORNER	MON	MONUMENT	SDCB	STORM DRAIN CATCH BASIN	TSB	TRAFFIC SIGNAL BOX
BOW	BACK OF WALK	FFE	FINISHED FLOOR ELEVATION	MP	METAL PIPE	SDCO	STORM DRAIN CLEOUNOUT BOX	UD	UNDERDRAIN
BW	FINISH GRADE AT BOTTOM OF WALL	FG	FINISHED GRADE	MW	MONITORING WELL	SDMH	STORM DRAIN MANHOLE	UGC	UNDERGROUND COMMUNICATIONS
℄	CENTERLINE	FH	FIRE HYDRANT	N	NORTH	SEC	SECTION	UGP	UNDERGROUND POWER
CATV	CABLE TELEVISION	FL	FLOW LINE	NG	NATURAL GROUND	SPECS	SPECIFICATIONS	UGT	UNDERGROUND TELEPHONE
CBR	CONCRETE BARRIER	FNC	FENCE	NGRET	NG AT RETAINING WALL	SLB&M	SALT LAKE BASE & MERIDIAN	UGTV	UNDERGROUND TELEVISION
CC	CURB CUT	FNCCL	CHAIN LINK FENCE	NR	NAIL & RIBBON	SQ	SQUARE	U.N.O.	UNLESS NOTED OTHERWISE
COL	COLUMN	FNCIRN	IRON FENCE	NW	NAIL & WASHER	SQFT	SQUARE FEET	UP	UTILITY POLE
COMM	COMMUNICATIONS	FNCVYL	VINYL FENCE	NTS	NOT TO SCALE	SQYD	SQUARE YARD	VCP	VITRIFIED CLAY PIPE
CONC	CONCRETE	FNCWD	WOOD FENCE	OG	ORIGINAL GROUND	SS	SANITARY SEWER	VP	VERTICAL PIPE
CONST	CONSTRUCTION	FNCWR	WIRE FENCE	OH	OVERHANG	SSCO	SANITARY SEWER CLEANOUT	W	WEST or WATER
CMP	CORRUGATED METAL PIPE	FO	FIBER OPTIC	OHC	OVERHEAD COMMUNICATIONS	SSMH	SANITARY SEWER MANHOLE	WM	WATER METER
CP	CONTROL POINT	FOW	FRONT OF WALK	OHP	OVERHEAD POWER	ST	STEAM	WMH	WATER MANHOLE
CTREE	CONIFEROUS TREE	FT	FEET	OHT	OVERHEAD TELEPHONE	STA	STATION	WS	WATER SURFACE
CUFT	CUBIC FOOT	G	NATURAL GAS	OHTV	OVERHEAD TELEVISION	STD	STANDARD	WTR	WATER
CUYD	CUBIC YARD	GAR	GARAGE	℄	PROPERTY LINE	STM	STORM	WV	WATER VALVE
DEL	DELINEATOR	GB	GRADE BREAK	PB	POWER BOX	SYL	SOLID YELLOW LINE	WW	WATERWAY
DIA or Ø	DIAMETER	GL	GROUND LIGHT	PC	POINT OF CURVATURE	SWL	SOLID WHITE LINE		

bhd ARCHITECTS
www.bhdarchitects.com
Phone 801.571.0010
Fax 801.571.0303
Toll Free 888.571.0010
65 East Wadsworth Park Drive
Suite 205 Draper, Utah 84020

PROFESSIONAL ENGINEER
04-08-24
No. 11888925-2202
DANIEL J. CANNING
STATE OF UTAH

McNEIL ENGINEERING
8410 South Sandy Parkway, Suite 200
Sandy, Utah 84070
801.255.7700 mcneilengineering.com

PROJECT NO.: 24119

THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

Tooele UT Deseret Peak Sr Seminary

Approximately 2234 North Berra Boulevard, Tooele, Utah
40.56691, -112.303347

Date: 3 Apr 2024
BHD #: 2326
County Parcel: 02-143-0-0115
Plan Series: Custom 5 CR
Owner #: 501-3450

Drawing Issue and Revision Schedule

#	Date	Description
1	3 Apr 2024	Bid Documents

General Notes, Legend, and Abbreviations

C601

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TREE LEGEND

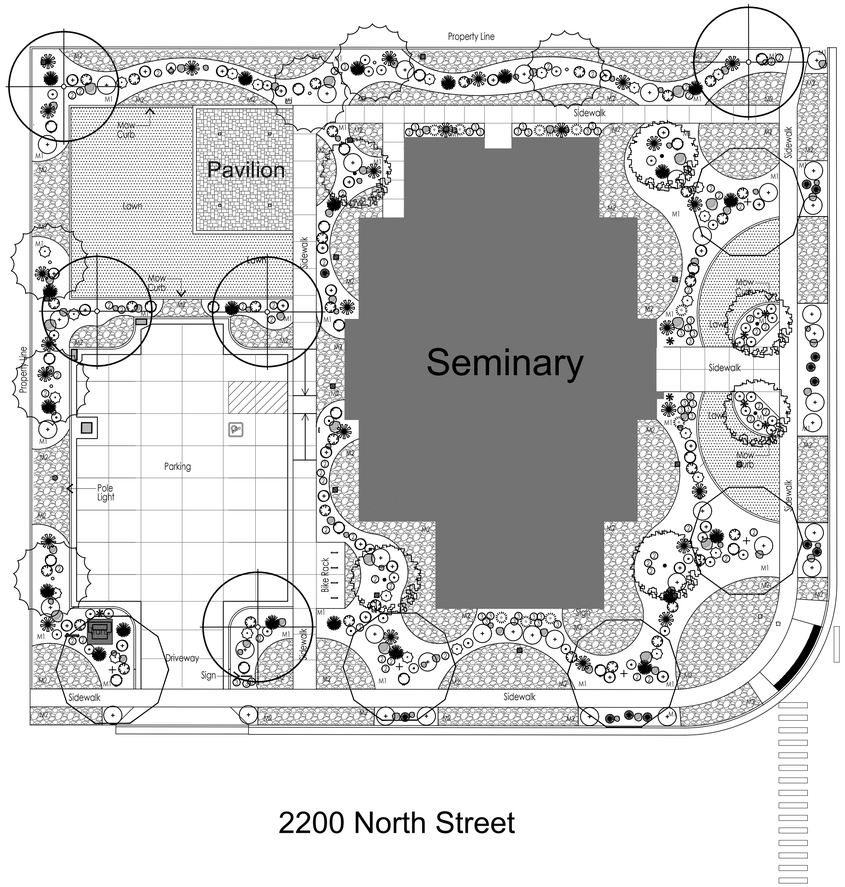
Symbol	Plant Type	Scientific Name / Common Name	Planting Size	Planting Size Height	Planting Size Width	Mature Size Height	Mature Size Width
	Deciduous	Quercus rubra 'Shumardii' Shumard Red Oak	25 Gal. Container	8'	3'	40'	35'
	Deciduous	Quercus macrocarpa Burr Oak	25 Gal. Container	8'	3'	50'	40'
	Deciduous	Prunus virginiana 'Canada Red' Canada Red Choke Cherry (3 Tr.)	25 Gal. Container Multi-Stem 3	7-8'	4'	20'	20'
	Deciduous	Amelanchier x grandiflora Autumn Brilliance Serviceberry	25 Gal. Container Multi-Stem 3	7-8'	3'	20'	15'

SHRUB LEGEND

Symbol	Type	Scientific Name / Common Name	Root Ball Size	Planting Size Height	Planting Size Width	Mature Size Height	Mature Size Width
	Evergreen	Pinus mugo 'Mughus - Tyroleon' Dwarf Mugo Pine	5 GAL. Container	12"	18"	4'	5'
	Evergreen	Juniperus h. 'Blue Chip' Blue Chip Juniper	5 GAL. Container	6"	12"	8"	6'
	Evergreen	Yucca filimentosa Yucca	5 GAL. Container	12"	12"	3'	5'
	Deciduous	Caryopteris clandonensis Blue Mist Spirea	5 GAL. Container	14"	12"	3'	4'
	Deciduous	Euonymus alatus 'Compacta' Dwarf winged Euonymus	5 GAL. Container	18"	12"	4'	4'
	Deciduous	Berberis thunb. atrop. "Nana' Crimson Pigmy Barberry	5 GAL. Container	18"	12"	2'	3'
	Deciduous	Rosa 'Knockout' Knockout Rose	5 GAL. Container	24"	12"	2'	2'
	Deciduous	Potentilla fruticosa 'Gold Drop' Jackman Potentilla	5 GAL. Container	4"	18"	3'	3'
	Deciduous	Cornus sericea 'Kelseyi' Kelseys Dwarf Red Twig Dogwood	5 GAL. Container	4"	18"	3'	2-3'

GRASS & PERENNIAL LEGEND

Symbol							
	Perennial	Perovskia atriplicifolia 'Filigran' Filigran Russian Sage	1 GAL. Container	6"	12"	3'	3'
	Grass	Calamagrostis s. acutiflora 'Karl Foerster' Feather Grass	1 GAL. Container	18"	6"	4'	2'
	Grass	Pennisetum alopecuroides 'Hameln' Hameln Fountain Grass	1 GAL. Container	12"	6"	30"	30"
	Perennial	Hemerocalis 'Texas Sunlight' Daylilly	1 GAL. Container	10"	6"	24"	18"
	Perennial	Nepeta faassenii Catmint 'Blue Wonder'	1 GAL. Container	8"	6"	18"	24"
	Perennial	Shasta Daisey Leucanthemum x superbum	1 GAL. Container	10"	6"	24"	2'



DESIGN CRITERIA

Eco-Region	10.1 - Northern Cold Desert
Climate zone	Zone 3
Zoning ordinance	R-1-8
Water availability	City Culinary Water / 1.25" Connection / 90 psi
Soil type	
Slopes	Mild slope entire site
Wind	From the North
Setbacks/easements	See site plan
Microclimates	Windy Site, Especially in winter
Soil ph	On-site topsoil has excellent characteristics except it has 38.5% rock over 1/4"
Lawn Area Percentage	17.8%
Undeveloped property	0 sq. ft.
Irrigation system	Yes -automatic

LANDSCAPE DATA

Total Site Area	37,223 sq.ft.	% of Landscape	%/# Required by Local Jurisdiction
Total Landscape Area	18,660 sq. ft.	50.1%	15% Minimum
Recreation Lawn	2,151 sq.ft. % of total landscape area	12%	NA
Other Lawn	1,180 sq.ft. Recreation lawn area not included.	6%	NA
All Shrubs/Groundcover	15,329 sq.ft. % of total landscape area	82%	NA
Trees on site	None existing		

PLANT COVERAGE

Coverage Area	Recommended mature shrub coverage	Actual	Recommended Tree Effect	Trees Provided / Trees required
Street Frontage	30% - 55%	38%	Frame Building	22 / 19
Primary Entries	25% - 60%	50%	Frame Entry	NA
Building Perimeter	15% - 35%	26%	Accent Building	NA
Perimeter Sides	10% - 25%	15%		NA
Perimeter Rear	5% - 25%	15%		NA

Landscape Notes

1. TOPSOIL: ALL LAWN AREAS SHALL RECEIVE FIVE (5) INCHES OF IMPORTED TOPSOIL. OTHER AREAS DO NOT NEED IMPORTED TOPSOIL. ACHIEVE FINISH GRADE USING ONSITE STOCKPILED SOILS. PLACE TWELVE (12) INCHES OF STOCKPILED SOILS IN TREES AND SHRUB PLANTER AREAS. EACH PLANT MATERIAL PIT WIDTH WILL BE REQUIRED TO BE (3) THREE TIMES THE DIAMETER OF THE ROOT BALL AND BE BACKFILLED WITH A MIX OF 50% IMPORTED TOPSOIL AND 50% EXISTING SOILS. SUBMIT A RECENT, WITHIN 60 DAYS, TOPSOIL ANALYSIS ON PROPOSED IMPORTED TOPSOIL FOR REVIEW AND APPROVAL. ADD AMENDMENTS, IF REQUIRED. DO NOT INSTALL ANY TOPSOIL UNTIL THE SUB-GRADE HAS BEEN CHECKED AND APPROVED FOR PROPER DEPTH BY THE ARCHITECTS.

2. COBBLE ROCK TO BE INSTALLED THREE (3) INCHES DEEP MINIMUM AND DEEP ENOUGH TO COMPLETELY COVER THE FABRIC. COBBLE ROCK TO BE FINISH GRADED ONE (1) INCH BELOW ALL ADJACENT CONCRETE EDGES. SUBMIT ROCK PRODUCT SAMPLES FOR OWNER AND ARCHITECT APPROVAL BEFORE DELIVERY AND INSTALLATION. SEE LEGENDS THIS SHEET. ALL COBBLE ROCK SHALL BE DIRT AND CLOD FREE.

3. WEED BARRIER FABRIC TO BE PLACED UNDER ALL COBBLE ROCK MULCH M1 AND M2. OVERLAP 6" AT JOINTS AND ADHERE TO GROUND USING 1" BY 6" STEEL WIRE STAKES PLACED 4' O.C.

4. LAWN SHALL BE A BLEND OF DROUGHT TOLERANT KENTUCKY BLUEGRASS. LAWNS SHALL BE INSTALLED IN THE FORM OF SOD FROM BIOGRASS SOD IN WEST JORDAN. INSTALL THEIR BIO-BLU LAWN BLEND, OR APPROVED EQUAL.

5. INSTALL DRAIN CATCH BASINS PER DETAIL C/C502. MAKE SURE LOCATIONS ARE NOTED ON RECORD DRAWINGS.

6. FREE STANDING BOULDERS TO BE SIZES INDICATED ON THE DRAWINGS. BOULDERS TO BE OF A NATURAL APPEARANCE, QUARTZ OR OTHER HARD ROCK, OF A BROWN COLOR. SEE LEGEND THIS SHEET. SUBMIT A FULL SIZED SAMPLE FOR APPROVAL BEFORE DELIVERY. PARTIALLY BURY AND PLACE BOULDERS SO THEY HAVE A NATURAL LOOKING APPEARANCE. SEE DETAIL "J" ON DRAWING L501. BOULDERS SHALL BE THE SPECIFIED DIMENSIONS ON ALL THREE SIDES OF THE BOULDER.

7. CONCRETE MOW CURB INSTALLATION IS DESCRIBED ON THE SITE PLAN DETAILS AND CONCRETE SPECIFICATIONS.

8. MAKE SURE ALL LANDSCAPE AREAS HAVE POSITIVE DRAINAGE OUT OF PLANTERS FOLLOWING FINISH GRADING AS PER GRADING AND DRAINAGE DRAWINGS.

Landscape Objects Legend

- M1 — CRUSHED ROCK 1.5" DIA. Copper Canyon Tan, Staker Parsons Beef Hollow Pit
- M2 — Screened ROCK 3-5" DIA. Bonneville Blend Mixed Color, Jason Dansie Rock Products
- LAWN SOD, Bio Blue Bluegrass, Biograss Sod Farm West Jordan
- BOULDERS - Quartz, Browns Canyon Tan, Browns Canyon Plea
- CONCRETE MOW CURB 6"X6" SEE CIVIL DRAWINGS
- CONTOUR LINES 12" INTERVAL

Site Data

Landscaping	18,660 sf (50.1%)
Grass	3,331 sf (17.8%)
Planter Areas	15,329 sf (82.2%)
Concrete Pavement	4,821 sf (4.4%)
Concrete	4,538 sf (12.2)
Building	9,204 sf (24.7%)
Total Site Area	37,223 sf (100%)

1 **Landscape Plan**
Scale: 1" = 20'-0"

0' 10' 20' 40' 80'

W N E S

bhd ARCHITECTS
www.bhdarchitects.com
Phone 801.571.0010
Fax 801.571.0303
Toll Free 888.571.0010
65 East Wadsworth Park Drive
Suite 205 Draper, Utah 84020

GREGORY WOLFLEY LICENSED LANDSCAPE ARCHITECT STATE OF UTAH
03212024

DESIGN BY earthwise LANDSCAPE · IRRIGATION · PLANNING
801-619-4040
greg@earthwisedesign.com

THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

Tooele UT Deseret Peak Sr Seminary

Approximately 2234 North Berra Boulevard, Tooele, Utah
40.569694, -112.303347

Owner #: 501-3450
Plan Series: Custom SCR
County Parcel: 02-143-0-0115
BHD #: 2326
Date: 03 Apr 2024

Drawing Issue and Revision Schedule

#	Date	Description
1	3 Apr 2024	Bid Documents

Landscape Plan

L101

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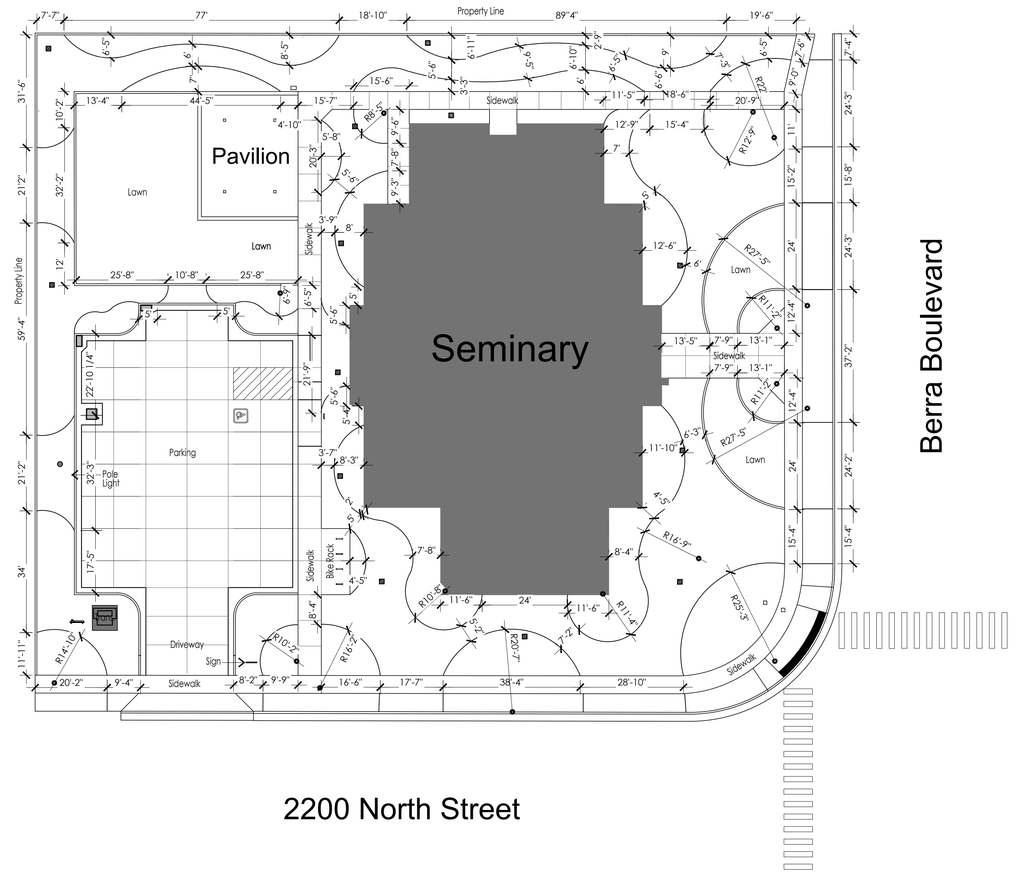

1 Layout & Dimension Plan

Scale: 1" = 20'-0"

0' 10' 20' 40' 80'

Layout & Dimension Notes

1. CAREFULLY SCALE OFF DRAWING ANY DIMENSION THAT IS NOT INCLUDED ON THIS DRAWING.

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M2	Screened ROCK 3-5" DIA. Bonneville Blend Mixed Color Jason Dansie Rock Products
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18"@2'@3'@4'	BOULDERS – Quartz Browns Canyon Tan Browns Canyon Plaa
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Phone 801.571.0010
Fax 801.571.0303
Toll Free 888.571.0010
65 East Wadsworth Park Drive
Suite 205 Draper, Utah 84020

GREGORY WOLLEY — STATE OF UTAH — LICENSED ARCHITECT
05212024

DESIGN earthwise LANDSCAPE · IRRIGATION · PLANNING
801-619-4040
greg@earthwisedesign.com

THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

Tooele UT Deseret Peak Sr Seminary

Approximately 2234 North Berra Boulevard, Tooele, Utah
40.5494°N, -112.3033°W

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Drawing Issue and Revision Schedule

#	Date	Description
1	3 Apr 2024	Bid Documents

Layout & Dimension Plan

L113

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IRRIGATION LEGEND - Heads

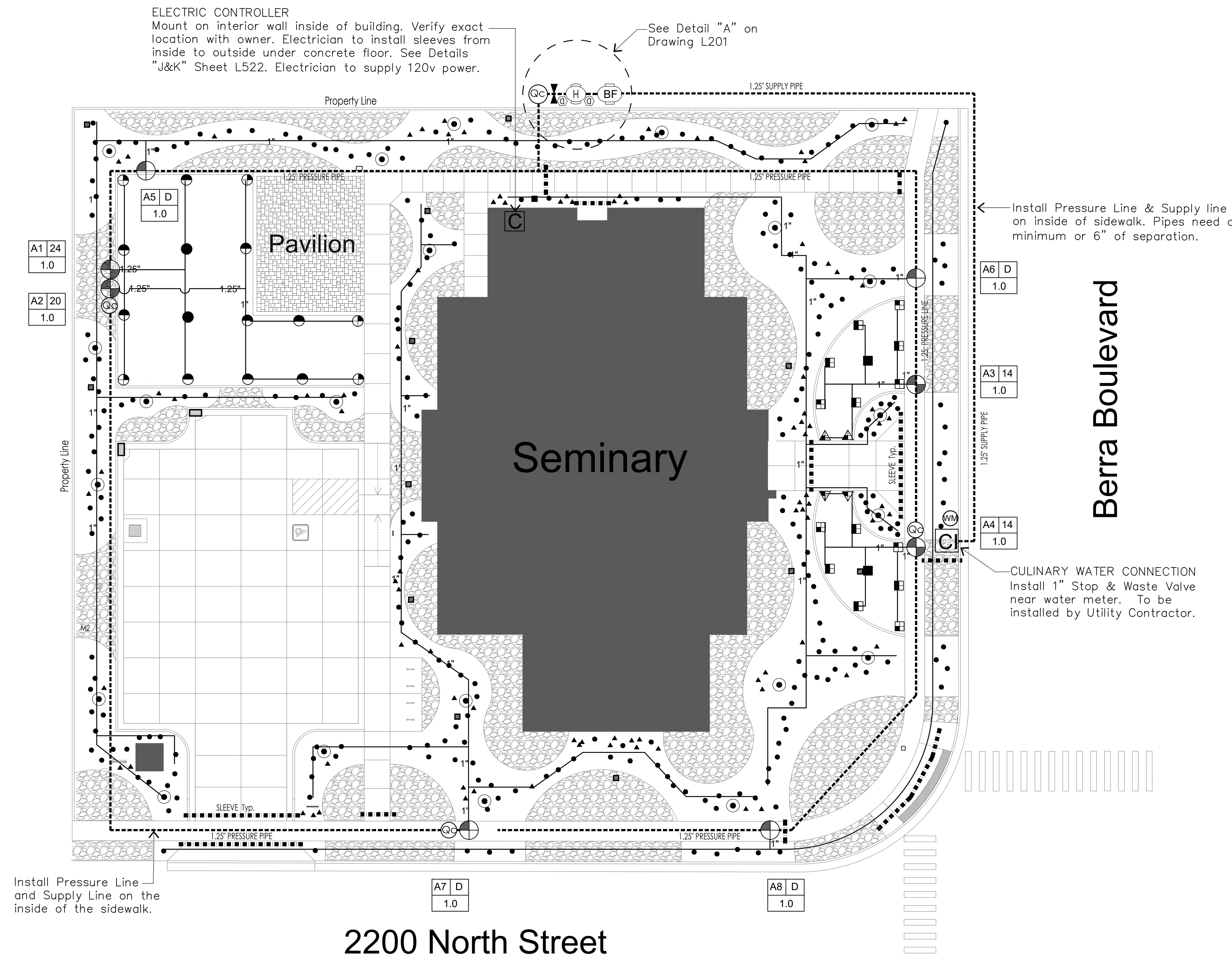
SYMBOL	DESCRIPTION	MANUF.	MODEL NO.	PSI	RADIUS	GPM	PREC. IN/HR
■	PRS - SPRAY HEAD	RAINBIRD	1804- MPR-12F	30	12'	2.60	2.01
◧	PRS - SPRAY HEAD	RAINBIRD	1804- MPR-12H	30	12'	1.30	2.01
◰	PRS - SPRAY HEAD	RAINBIRD	1804 MPR-12Q	30	12'	.65	2.01
◔	PRS - SPRAY HEAD	RAINBIRD	1804 VAN-18Q	30	18'	1.33	1.83
◓	PRS - SPRAY HEAD	RAINBIRD	1804- VAN-18H	30	18'	2.66	1.83
●	PRS - SPRAY HEAD	RAINBIRD	1804-VAN-18F	30	18'	5.32	1.83
◭	PRS-SAM SPRAY HEAD	RAINBIRD	1804 U-10Q	30	10'	.39	1.75
◭	PRS-SAM SPRAY HEAD	RAINBIRD	1804 U-10H	30	10'	.79	1.75
•	SHRUB DRIP EMITTER	RAINBIRD	XERI-BUG XBT-20PC 1/2" FPT 2.0 GPH				
▴	SHRUB DRIP EMITTER	RAINBIRD	XERI-BUG XBT-20PC 1/2" FPT 1.0 GPH				
⊙	TREE DRIP LINE	NETIFIM	DRIPLINE 0.9 GPH EMITTERS 12" O.C. *				

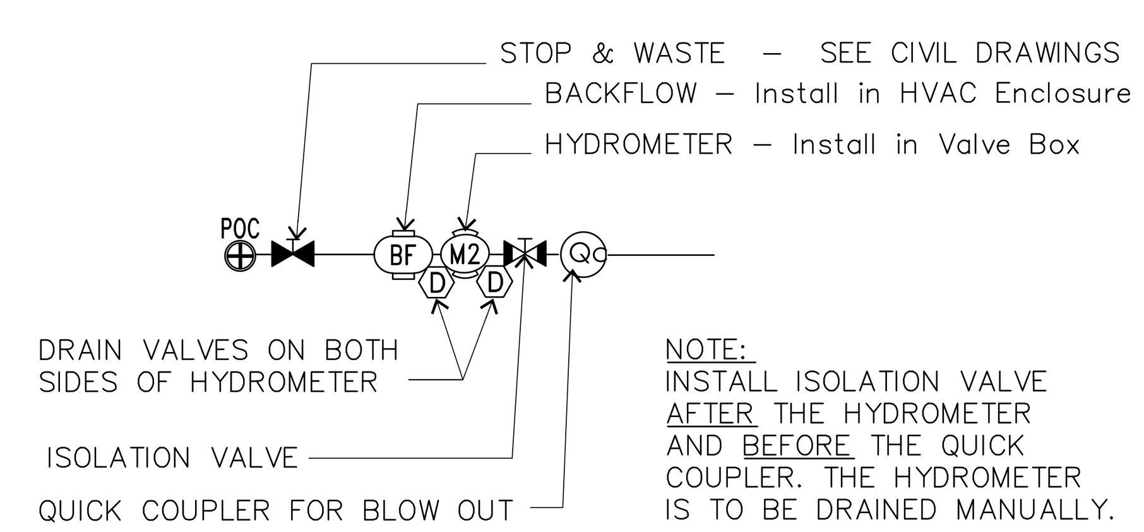
IRRIGATION LEGEND - Controller & Valves

SYMBOL	DESCRIPTION	MANUF.	MODEL NO. / COMMENTS
⊕	DRIP VALVE ASSEMBLY	RAINBIRD	XCZ-100-PRB-COM
⊕	ELECTRIC VALVE	RAINBIRD	PEB VALVES - 1"
QC	QUICK COUPLER VALVE	RAINBIRD	33DRC - (3/4")
▸◂	GATE VALVE	NIPCO T-113	NON-RISING STEM GATE VALVE - SIZE PER MAIN LINE
C	CONTROLLER	WEATHER TRAK	LC+ WALL MOUNT - 12 STATION
H	HYDROMETER	NETIFIM	LHM 15TG1-ME 1"
BF	RPA BACKFLOW	ZURN / WILKENS	THEFT PROTECTION 375B - 1"
CI	CULINARY WATER CONN.	MUELLER	ORISEAL 1" S&W VALVE - Installed by Utility Contractor See installation Detail "K" Drawing L522
D	MANUAL DRAIN	NIPCO	3/4" BRASS GLOBE VALVE

IRRIGATION LEGEND - Pipe

SYMBOL	DESCRIPTION
- - - - - - (thin dashed)	SCH 40 PVC PRESSURE & SUPPLY LINE - 1.25"
■ ■ ■ ■ ■ (heavy dashed)	CLASS 200 PVC SLEEVE PIPE - Two sizes larger than pipe size. Use everywhere piping & wires go under concrete or asphalt
——— (solid)	SCH 40 PVC LATERAL LINE - 3/4" Unless Noted Otherwise





A HYDROMETER & BACKFLOW
NO SCALE

1 **Irrigation Plan**
Scale: 1" = 20'-0"

0' 10' 20' 40' 80'

Irrigation Notes

1. THIS SYSTEM IS BASED UPON AN AVAILABLE STATIC PRESSURE OF 75 P.S.I. MINIMUM AND 24 G.P.M. AND 1" P.I. WATER CONNECTIONS. PRIOR TO CONSTRUCTION, CONFIRM STATIC PRESSURE OF THE CULINARY WATER AND SIZE OF CONNECTION. NOTIFY LANDSCAPE ARCHITECT IF PRESSURE AND P.S.I. ARE INADEQUATE.

2. THE STOP AND WASTE VALVE AND 1.25" RISER PIPE WILL BE INSTALLED BY THE SITE UTILITY CONTRACTOR. SEE DETAIL "J" SHEET L521.

3. THIS PLAN IS SOMEWHAT DIAGRAMMATIC. SYSTEM COMPONENTS MAY BE SHOWN IN PAVED AREAS OR OUT OF LANDSCAPE AREAS FOR PLAN CLARITY. ALL PIPING AND COMPONENTS TO BE INSTALLED IN LANDSCAPE AREAS. COORDINATE WITH LANDSCAPE DRAWING TO AVOID CONFLICTS WITH PLANT MATERIALS ESPECIALLY TREES.

4. LOCATE ALL VALVES AND BOXES NO MORE THAN 12" FROM CURB OR SIDEWALK FOR EASY ACCESS AND MAINTENANCE. USE TAN VALVE BOXES AND LIDS WHEN LOCATED IN MULCH AREAS, GREEN IN LAWN AREAS. USE JUMBO VALVE BOXES FOR DRIP VALVE ASSEMBLIES.

5. LOCATE SLEEVES UNDER ALL PAVED SURFACES WHERE PIPE OR WIRE CROSS UNDER. SLEEVE SIZE SHALL BE MINIMUM 2 PIPE SIZES LARGER THAN THE PIPE. CONTROL WIRES SHALL BE PLACED IN SEPARATE SLEEVES. INSTALL MORE THAN ONE SLEEVE PER LOCATION IF NECESSARY. EXTEND SLEEVES 6" BEYOND PAVED SURFACE ON EACH SIDE.

6. CONNECT SHRUB & PERENNIAL DRIP EMITTER ASSEMBLIES TO NEAREST LATERAL LINE. THE INTENT IS FOR ALL SHRUBS AND TREES TO RECEIVE AN APPROPRIATE EMITTER AS PER DOCUMENTS. DETERMINE EXACT LOCATION AND QUANTITY OF EMITTERS FROM THE LANDSCAPE PLAN.

7. THE STOP & WASTE VALVE TO BE INSTALLED BY THE UTILITY CONTRACTOR..

8. ELECTRIC CONTROLLER TO BE INSTALLED AS PER MANUFACTURERS RECOMMENDATIONS. INSTALL CONTROLLER ON INSIDE WALL OF BUILDING AS PER LOCATION ON THIS SHEET. COORDINATE WITH ELECTRICIAN EARLY IN PROJECT TO ASSURE CONTROLLER SLEEVES ARE INSTALLED FROM THE INSIDE WALL LOCATION TO A PLANTER OUTSIDE. SEE DETAIL "K" SHEET L522. ELECTRICIAN TO SUPPLY 120V POWER TO CONTROLLER.

9. CONTROL CABLE TO THE HYDROMETER TO BE CAGE ELECTRICAL: EV-CAB-SEN #18 OR APPROVED EQUAL. ZONE VALVE WIRES TO BE #18 DIRECT BURIAL WIRE. SEE SPECIFICATIONS.

10. DO NOT CUT OR SPLICE WIRES WITHOUT PERMISSION FROM THE LANDSCAPE ARCHITECT. MAKE SMALL COIL OF WIRE AT ALL DIRECTION CHANGES. DO NOT PULL WIRE TIGHT IN TRENCHES, INSTALL SLIGHTLY LOOSE AND MAKE A SMALL LOOP ON CORNERS.

11. INSTALL (3) GROUNDING RODS ADJACENT TO CONTROLLER AS PER MANUFACTURES RECOMMENDATIONS.

12. THIS SYSTEM IS DESIGNED TO BE PURGED OF WATER WITH COMPRESSED AIR IN THE FALL. DO NOT INSTALL AUTOMATIC DRAINS.

13. INSTALL A STEEL LOCKING ENCLOSURE OVER THE BACKFLOW DEVISE. SEE DETAIL "B" SHEET L521.

IRRIGATION MISC.

ZONE NO. → A1 25 ← GPM OR DRIP
VALVE SIZE → 1.0

PIPE SIZES

0-8 GPM = 0.75" PVC PIPE
9-16 GPM = 1.0" PVC PIPE
17-26 GPM = 1.25" PVC PIPE
27-36 GPM = 1.50 PVC PIPE

NOTE: DO NOT EXCEED THESE RATES

Site Data

Landscaping	18,660 sf (50.1%)
Grass	3,331 sf (17.8%)
Planter Areas	15,329sf (82.2%)
Concrete Pavement	4,821 sf (4.4%)
Concrete	4,538 sf (12.2)
Building	9,204 sf (24.7%)
Total Site Area	37,223 sf (100%)

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Fax 801.571.0303
Toll Free 888.571.0010
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Suite 205 Draper, Utah 84020

GREGORY WOLFLEY
03212024

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greg@earthwisedesign.com

THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

Tooele UT Deseret Peak Sr Seminary

Approximately 2234 North Berra Boulevard, Tooele, Utah
40.569694, -112.303347

Date: 03 Apr 2024
BHD #: 2326
County Parcel: 02-143-0-0115
Plan Series: Custom 5CR
Owner #: 501-3450

Drawing Issue and Revision Schedule

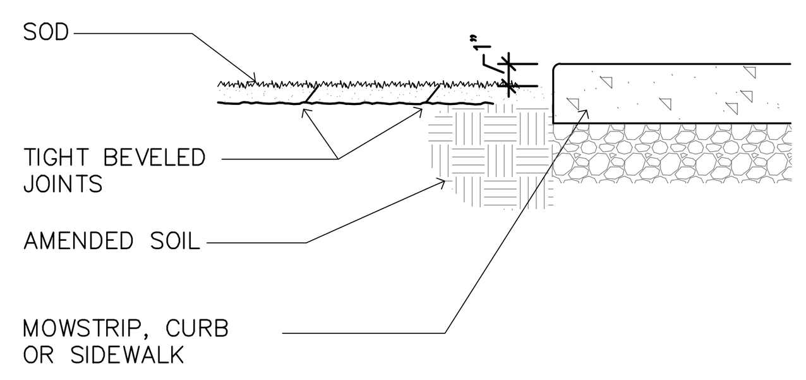
#	Date	Description
1	3 Apr 2024	Bid Documents

Irrigation Plan

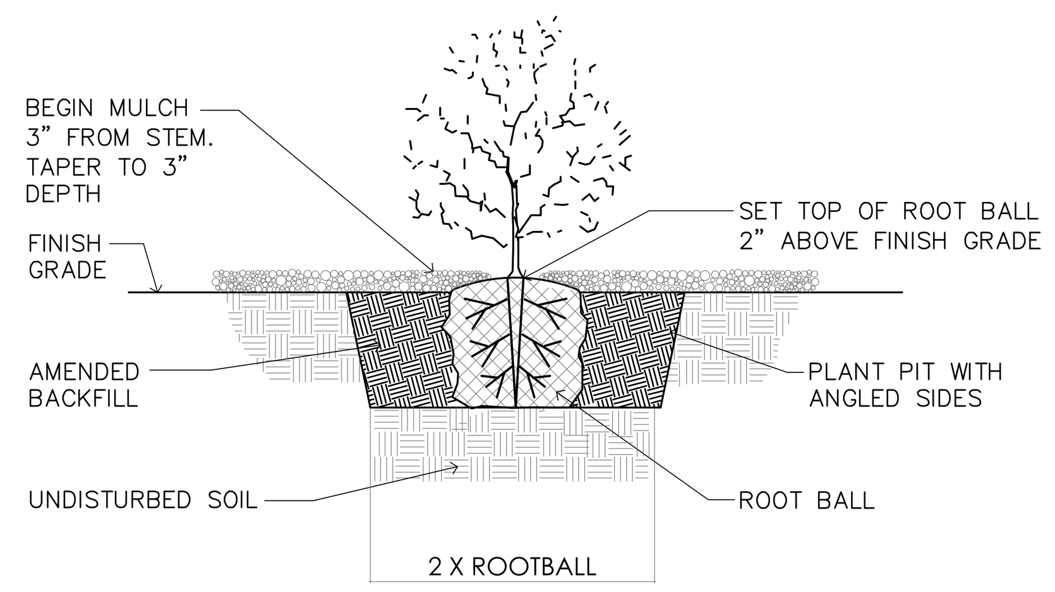
L201

Printed: 8Apr2024 7:33:4 PM

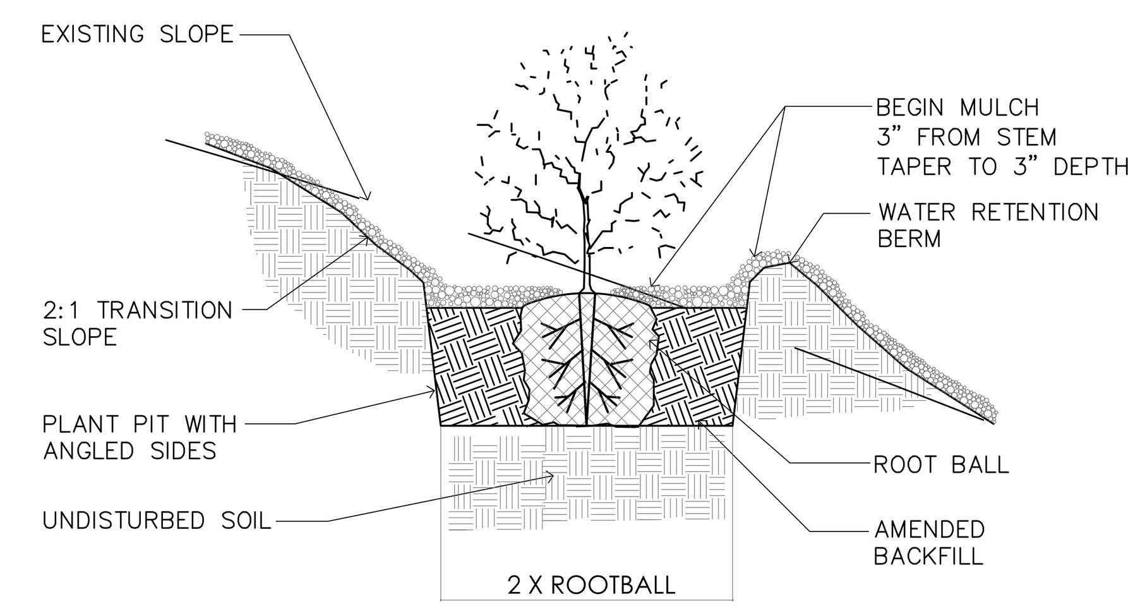
Xref .\24x36 Church Title.dwg



A SOD INSTALLATION
NOT TO SCALE

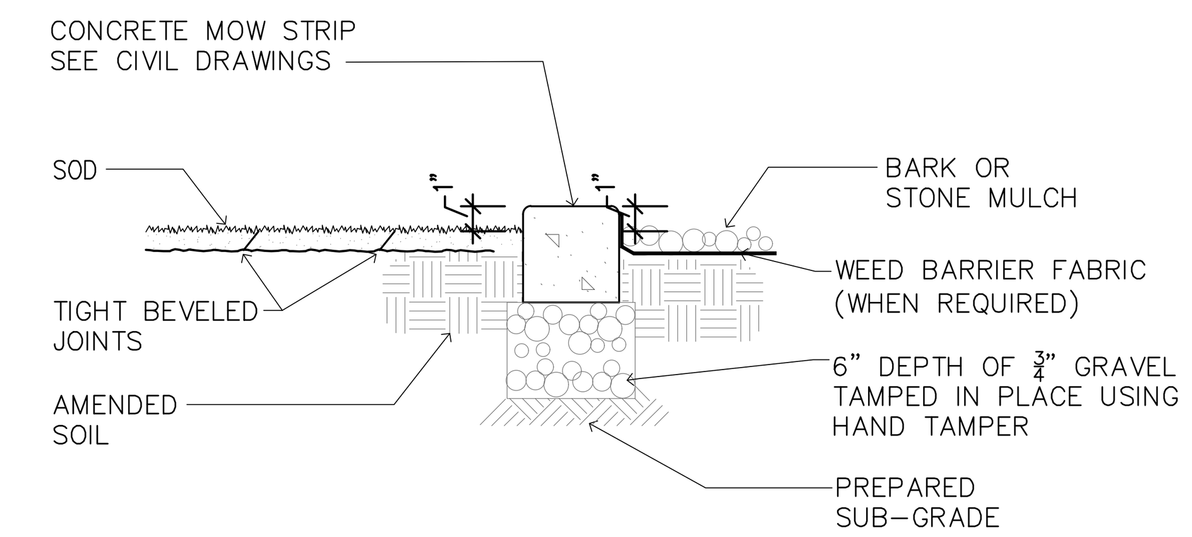


B SHRUB PLANTING DETAIL
NOT TO SCALE



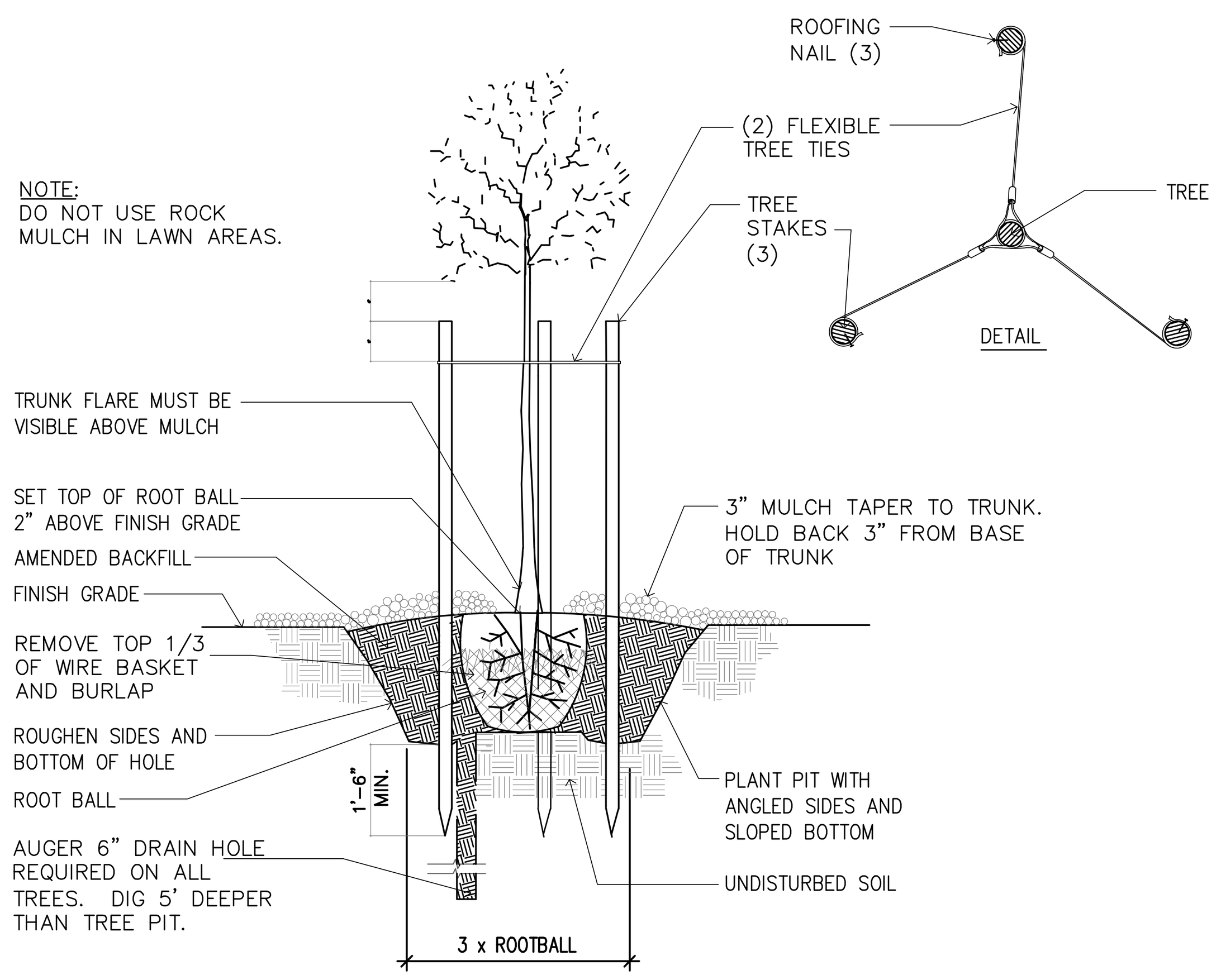
C SLOPE PLANTING
NOT TO SCALE

NOTES:
1. MOW STRIP TO BE CAST-IN-PLACE AND POURED USING TYPICAL WEIGHT STRUCTURAL CONCRETE.
2. CONTRACTOR TO ENSURE POSITIVE DRAINAGE AROUND MOW STRIPS–DO NOT CREATE A DAM EFFECT WITH PLACEMENT OF MOW STRIP.
3. MAXIMUM 1/2" WIDTH VARIATION.
4. PRECISELY FOLLOW LAYOUT AS SHOWN ON MOW STRIP/EDGING DIMENSION PLAN.



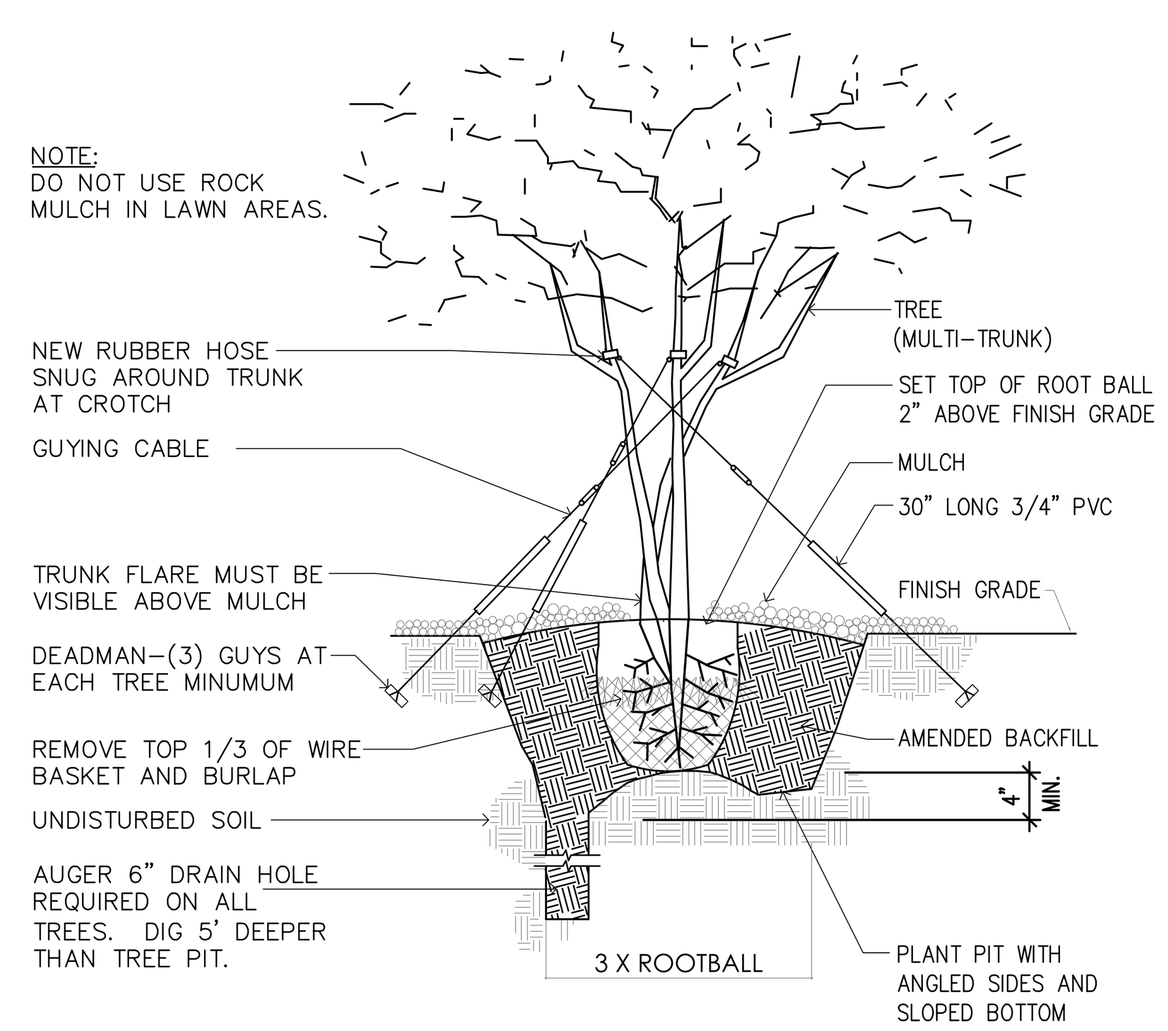
D CONCRETE MOW CURB
NOT TO SCALE

NOTE:
DO NOT USE ROCK MULCH IN LAWN AREAS.

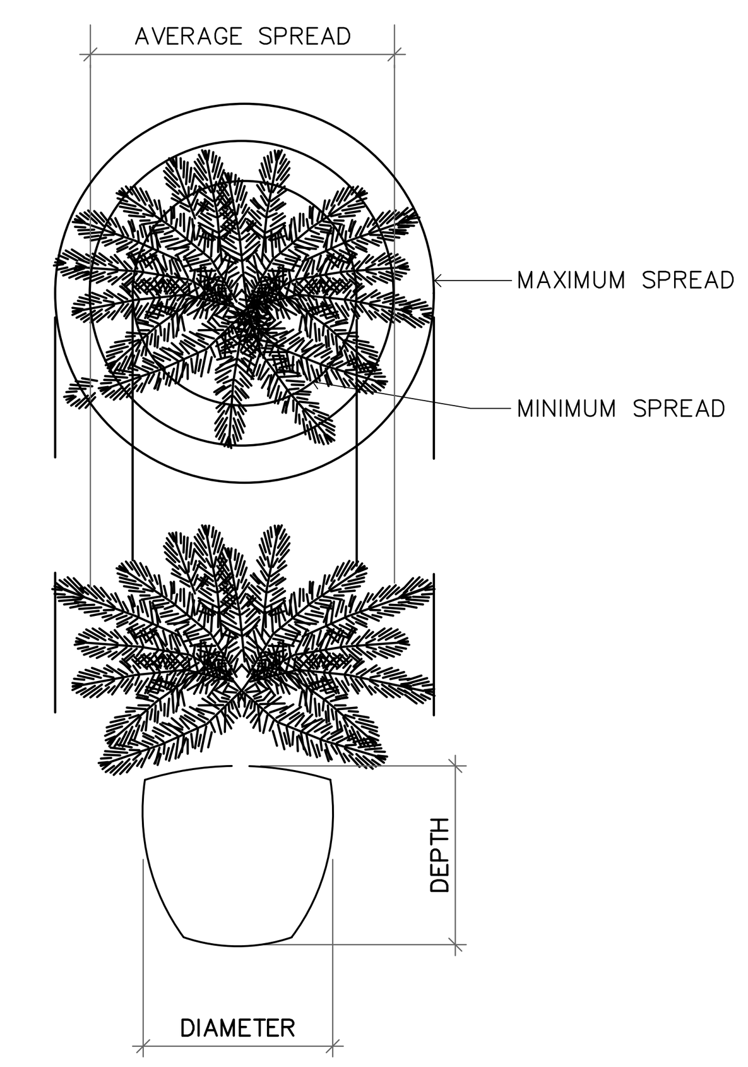


E TREE PLANTING & STAKING
NOT TO SCALE

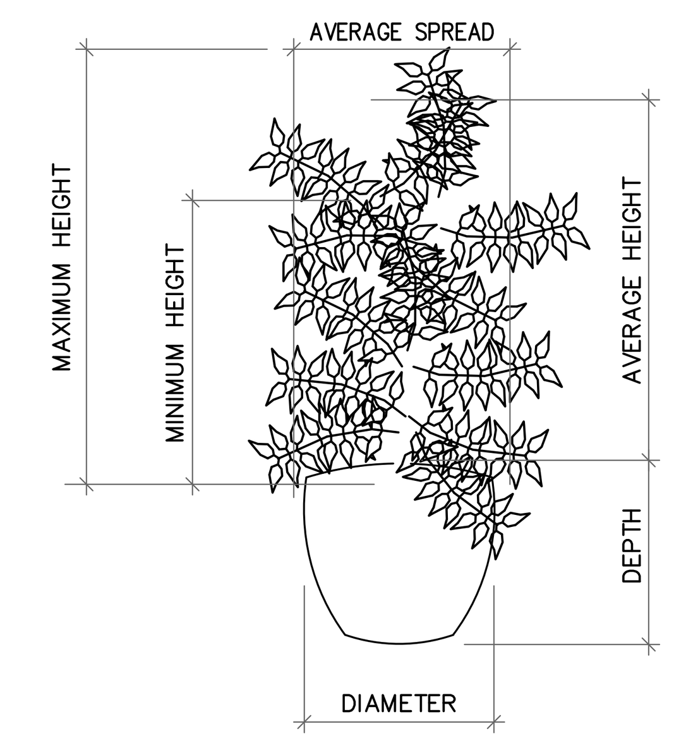
NOTE:
DO NOT USE ROCK MULCH IN LAWN AREAS.



F TREE GUYING (MULTI–TRUNK TREE)
NOT TO SCALE

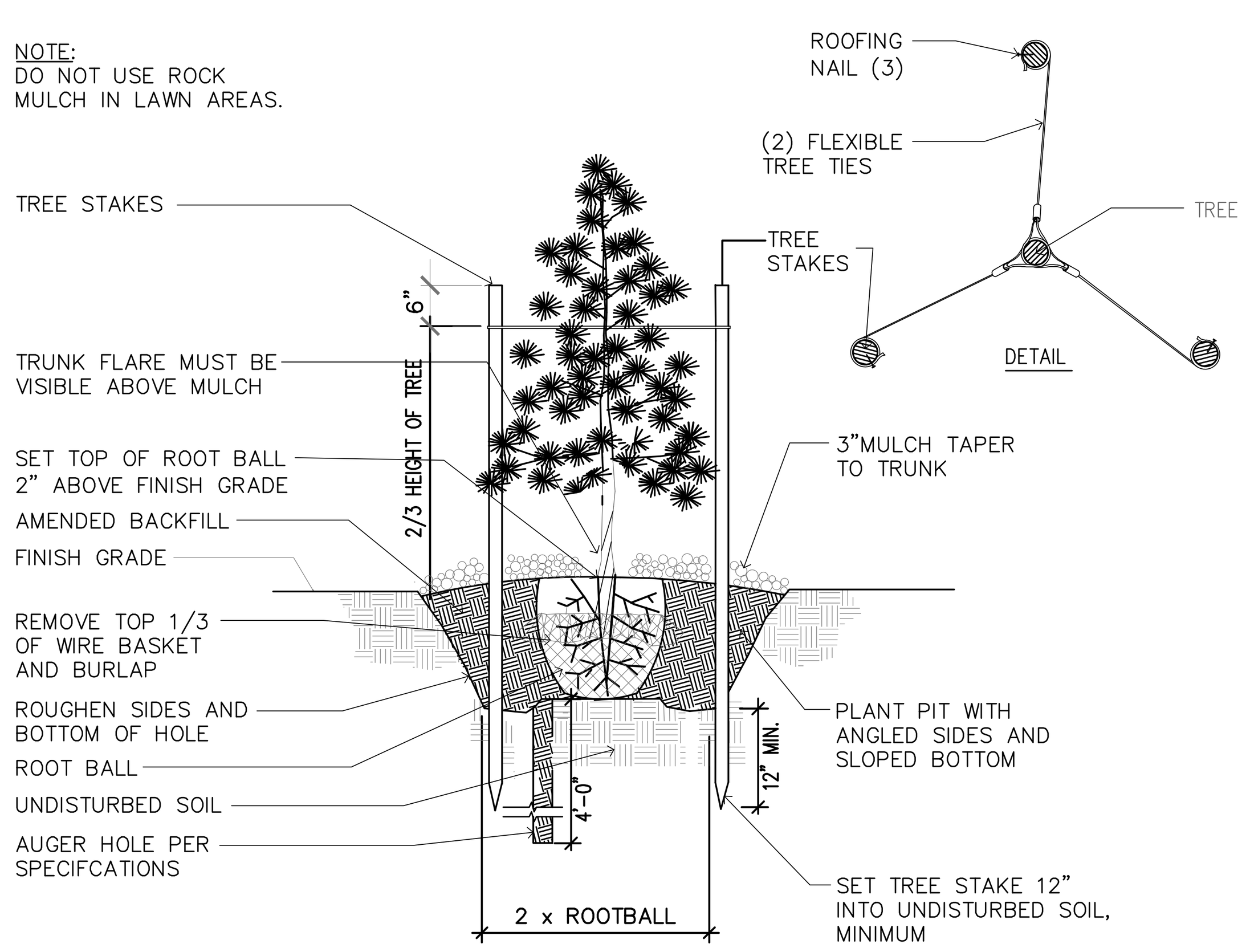


G TYPICAL MEASUREMENT FOR PROSTRATE TYPE PLANTS
NOT TO SCALE

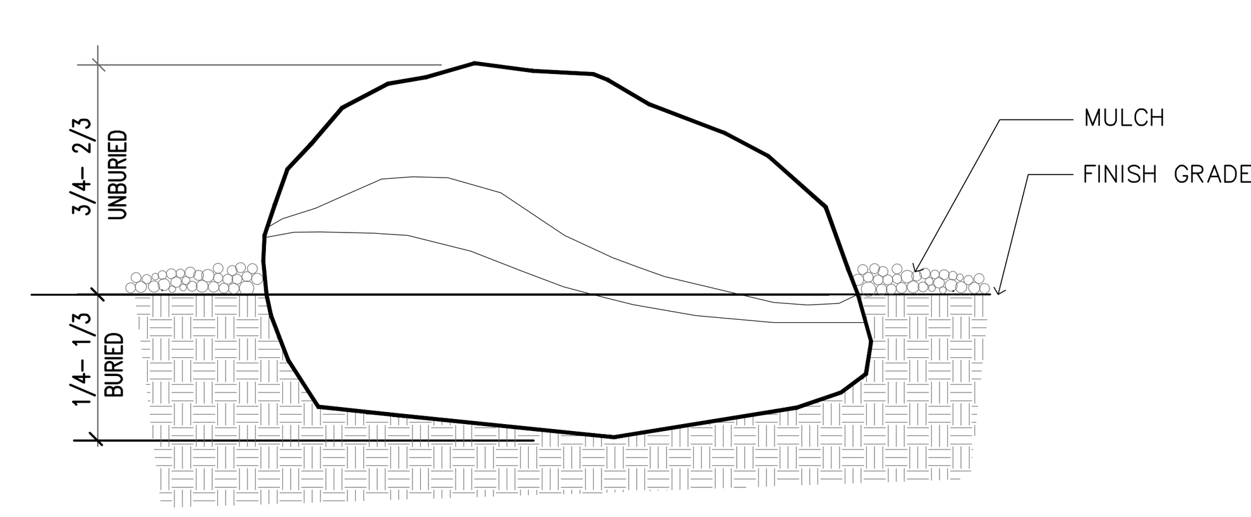


G TYPICAL MEASUREMENT FOR BROAD UPRIGHT TYPE
NOT TO SCALE

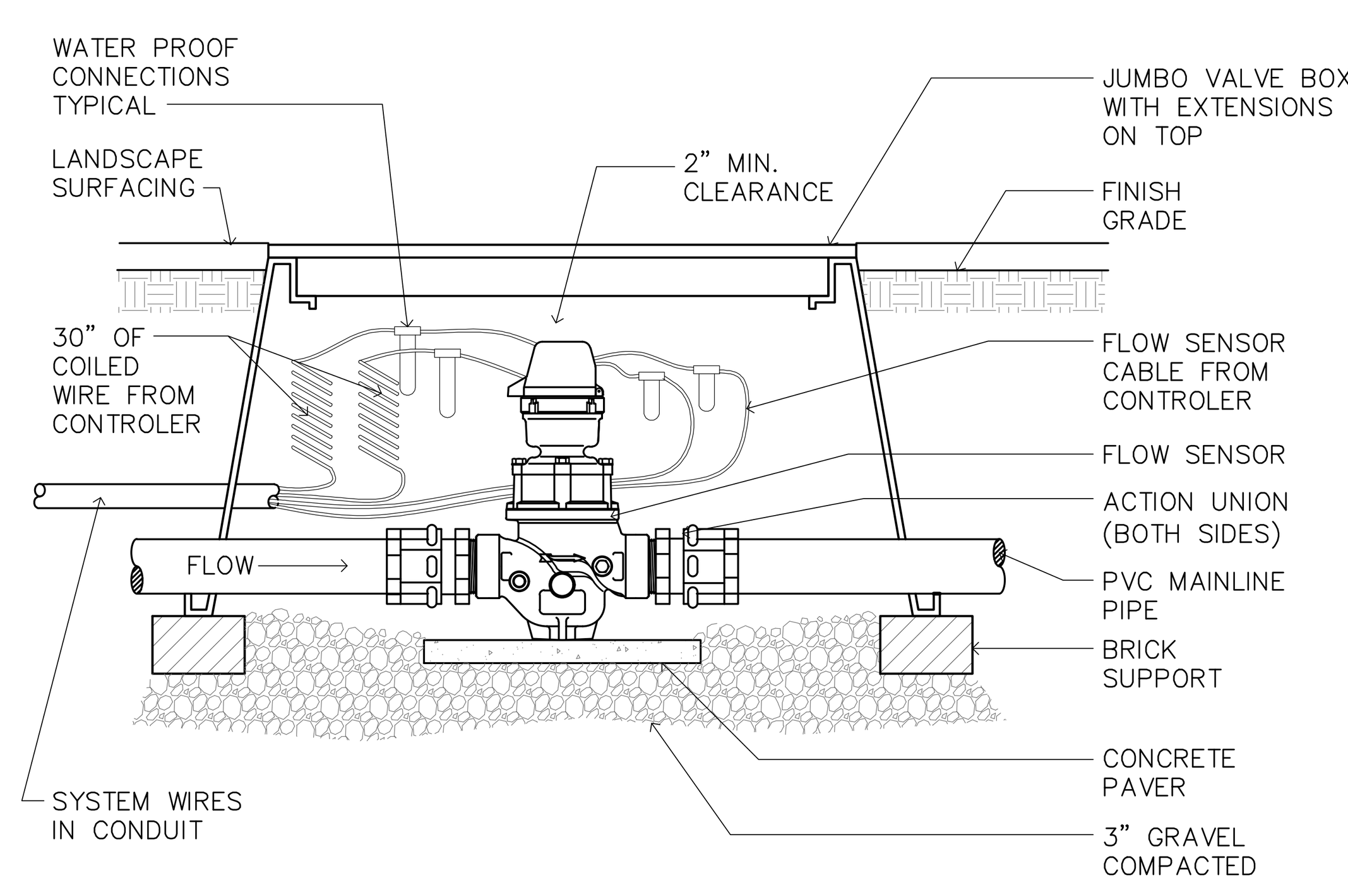
NOTE:
DO NOT USE ROCK MULCH IN LAWN AREAS.



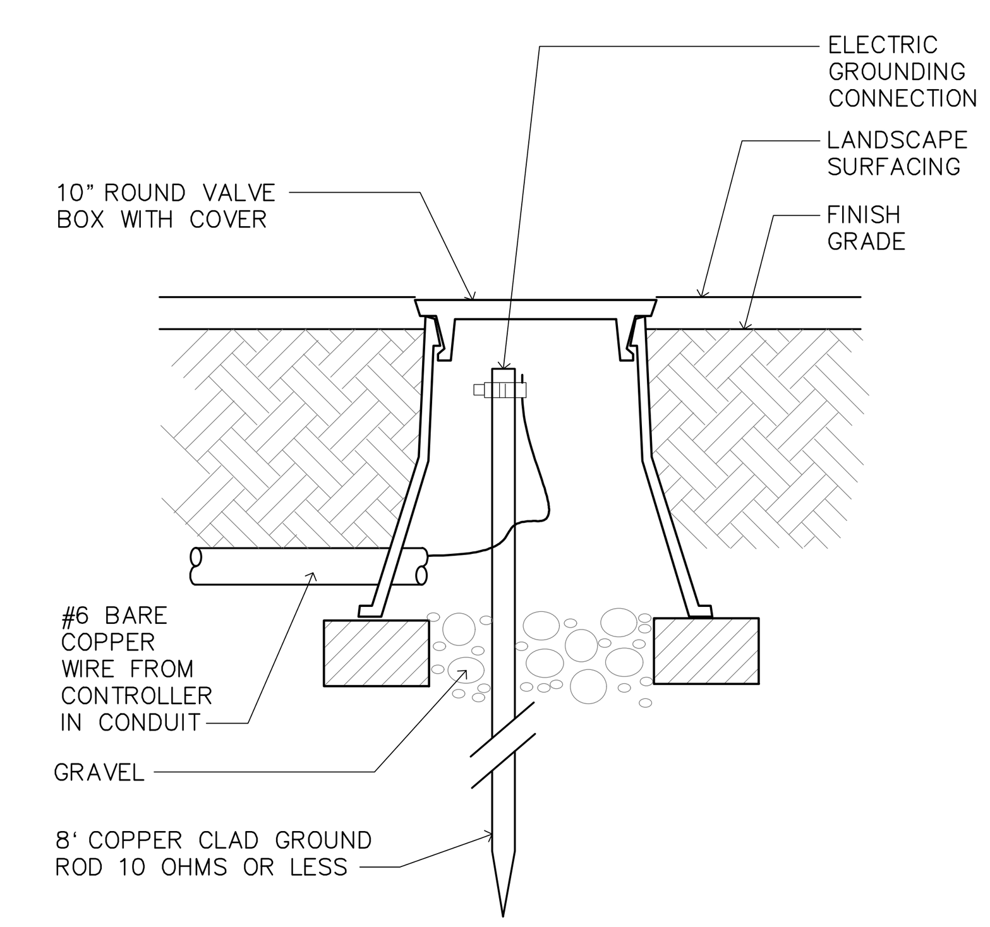
H CONIFER PLANTING AND STAKING
NO SCALE



J BOULDER PLACEMENT DETAIL
NOT TO SCALE



A FLOW SENSOR
NO SCALE



L LIGHTNING GROUNDING ROD
NO SCALE

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LANDSCAPE ARCHITECT
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THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

Tooele UT Deseret Peak Sr Seminary
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40.569694, -112.303347

Date:	BHD #:	County Parcel:	Plan Series:	Owner #:
03 Apr 2024	2326	02-143-0-0115	Custom SCR	501-3450

Drawing Issue and Revision Schedule

#	Date	Description
1	3 Apr 2024	Bid Documents

Landscape Details

L501

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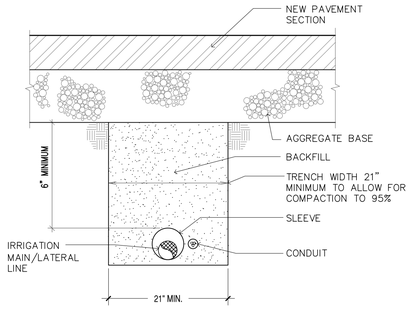
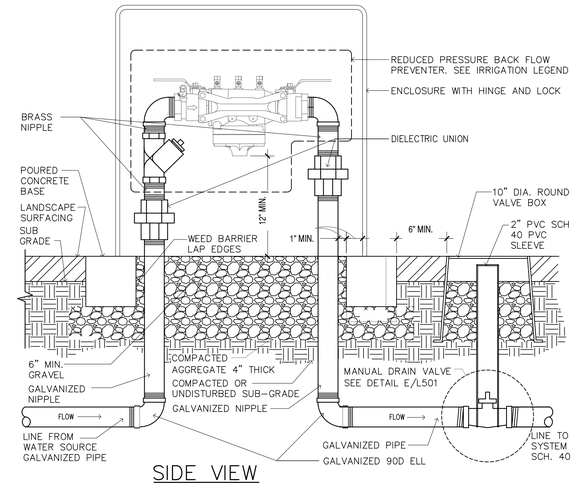
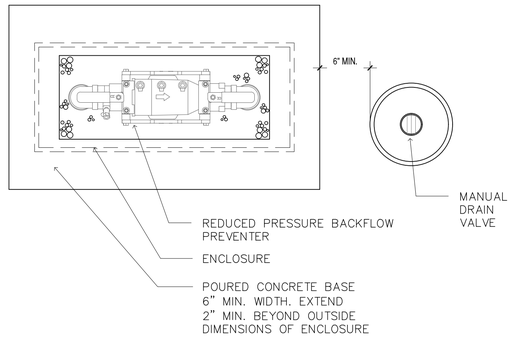


MISC. PIPE TRENCH DETAIL NEW PAVEMENT AREAS

(A) NO SCALE



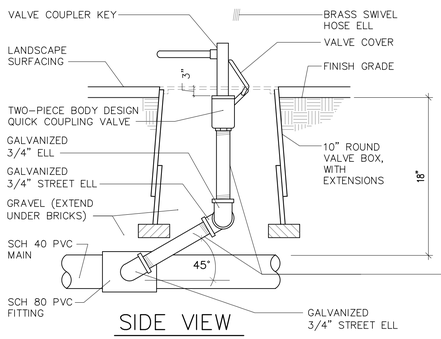
SIDE VIEW



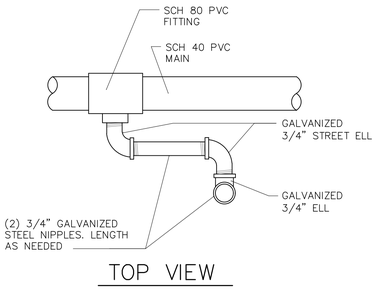
TOP VIEW

REDUCED PRESSURE BACKFLOW PREVENTER

(B) NO SCALE



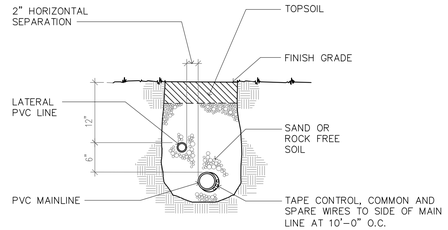
SIDE VIEW



TOP VIEW

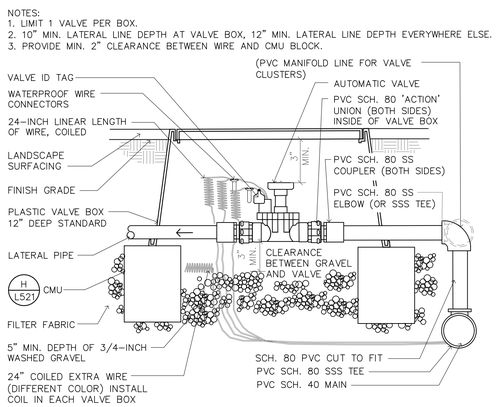
QUICK COUPLING VALVE

(D) NO SCALE



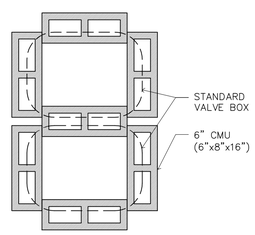
TRENCH SECTION

(E) NO SCALE



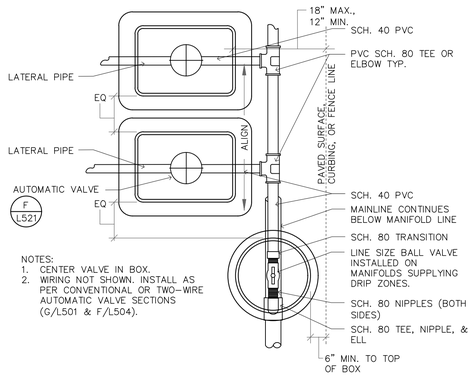
AUTOMATIC VALVE

(F) NO SCALE



CMU PLACEMENT

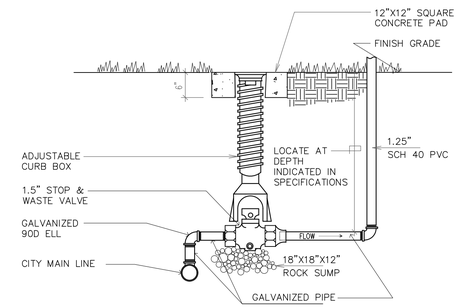
(G) NO SCALE



MANIFOLD & VALVE ASSEMBLY

USE AT VALVE CLUSTERS

(H) NO SCALE



STOP & WASTE VALVE DETAIL

(J) NO SCALE

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THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

Tooele UT Deseret Peak Sr Seminary

Approximately 2234 North Berra Boulevard, Tooele, Utah
40.567694, -112.303347

Date: 03 Apr 2024
BHD #: 2326
County Parcel: 02-143-0-0115
Plan Series: Custom SCR
Owner #: 501-3450

Drawing Issue and Revision Schedule

#	Date	Description
1	3 Apr 2024	Bid Documents

Irrigation Details

L521

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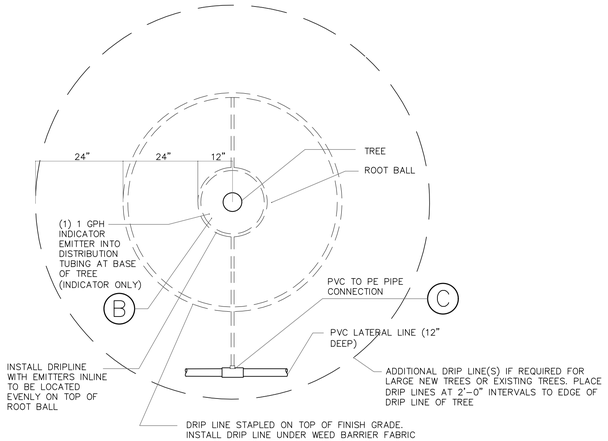
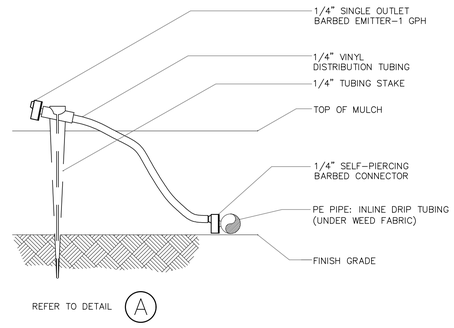


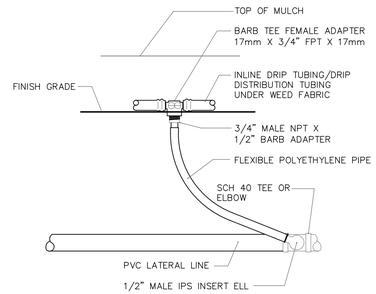
A TREE DRIP-PLAN VIEW (Planter Areas)
NO SCALE

NOTE: ALL FITTINGS TO INLINE DRIP TUBING TO BE COMPRESSION FITTINGS. IF MALE INSERTS ARE NEEDED, INSTALL WITH OETICKER CLAMPS.



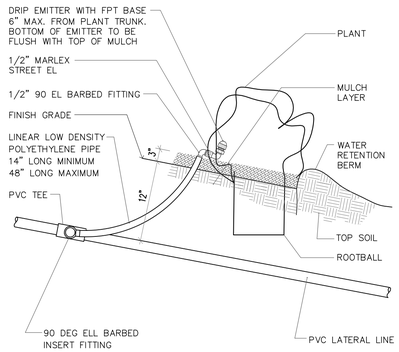
NOTE:
1. CONNECT EMITTER DIRECTLY INTO IN-LINE DRIP TUBING.
2. THIS IS AN INDICATOR ONLY EMITTER TO BE USED AT EACH TREE RING AND AREA WHERE IN-LINE TUBING IS INSTALLED.
3. 1/4" TUBING LENGTH: MINIMUM 14", MAXIMUM 24".

B INDICATOR EMITTER
NO SCALE

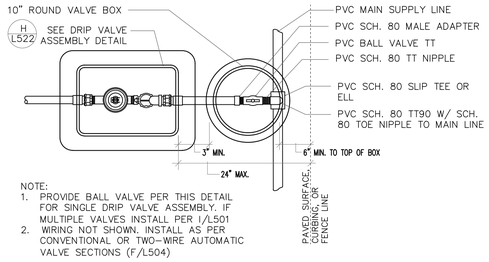


NOTE:
1. USE AT TREE RINGS ONLY.

C PVC TO PE PIPE CONNECTION
NO SCALE

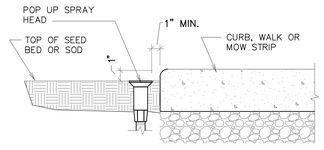


D DRIP EMITTER
NO SCALE

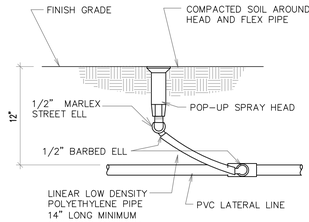


NOTE:
1. PROVIDE BALL VALVE PER THIS DETAIL FOR SINGLE DRIP VALVE ASSEMBLY. IF MULTIPLE VALVES INSTALL PER I/L501
2. WIRING NOT SHOWN. INSTALL AS PER CONVENTIONAL OR TWO-WIRE AUTOMATIC VALVE SECTIONS (F/L504)

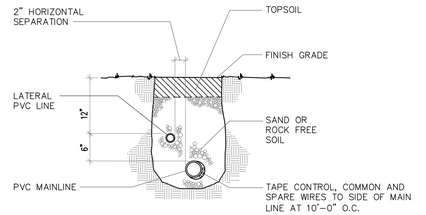
D DRIP VALVE ASSEMBLY
NO SCALE



SPRAY HEAD OR ROTOR NEXT TO CURB OR WALK
E NO SCALE

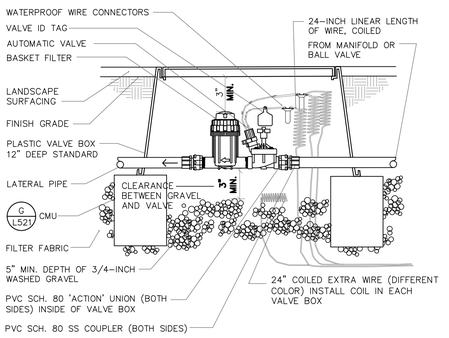


SPRAY AND ROTARY HEAD ASSEMBLY
K NO SCALE

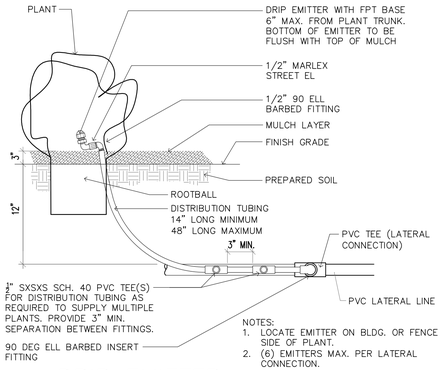


H TRENCH SECTION
NO SCALE

NOTES:
1. LIMIT 1 VALVE PER BOX.
2. 10" MIN. LATERAL LINE DEPTH AT VALVE BOX, 12" MIN. LATERAL LINE DEPTH EVERYWHERE ELSE.
3. PROVIDE MIN. 2" CLEARANCE BETWEEN WIRE AND CMU BLOCK.

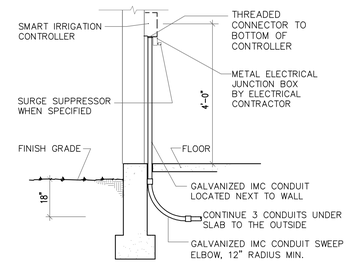


H DRIP VALVE ASSEMBLY
NO SCALE



NOTES:
1. LOCATE EMITTER ON BLDG. OR FENCE SIDE OF PLANT.
2. (6) EMITTERS MAX. PER LATERAL CONNECTION.

H DRIP EMITTER
1 1/2" = 1'-0"



J IRRIGATION CONTROLLER
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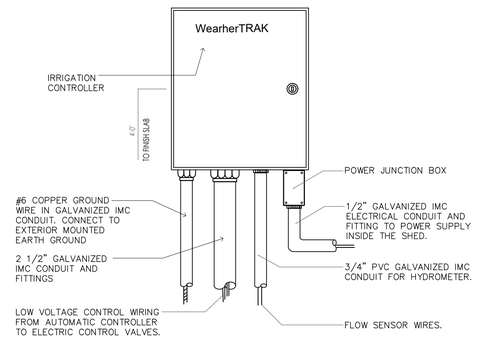

K CONTROLLER
NO SCALE

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THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

Tooele UT Deseret Peak Sr Seminary

Approximately 2234 North Berra Boulevard, Tooele, Utah
40.567694, -112.303347

Date:	03 Apr 2024
BHD #:	2326
County Parcel:	02-143-0-0115
Plan Series:	Custom SCR
Owner #:	501-3450

Drawing Issue and Revision Schedule

#	Date	Description
1	3 Apr 2024	Bid Documents

Irrigation Details

L522

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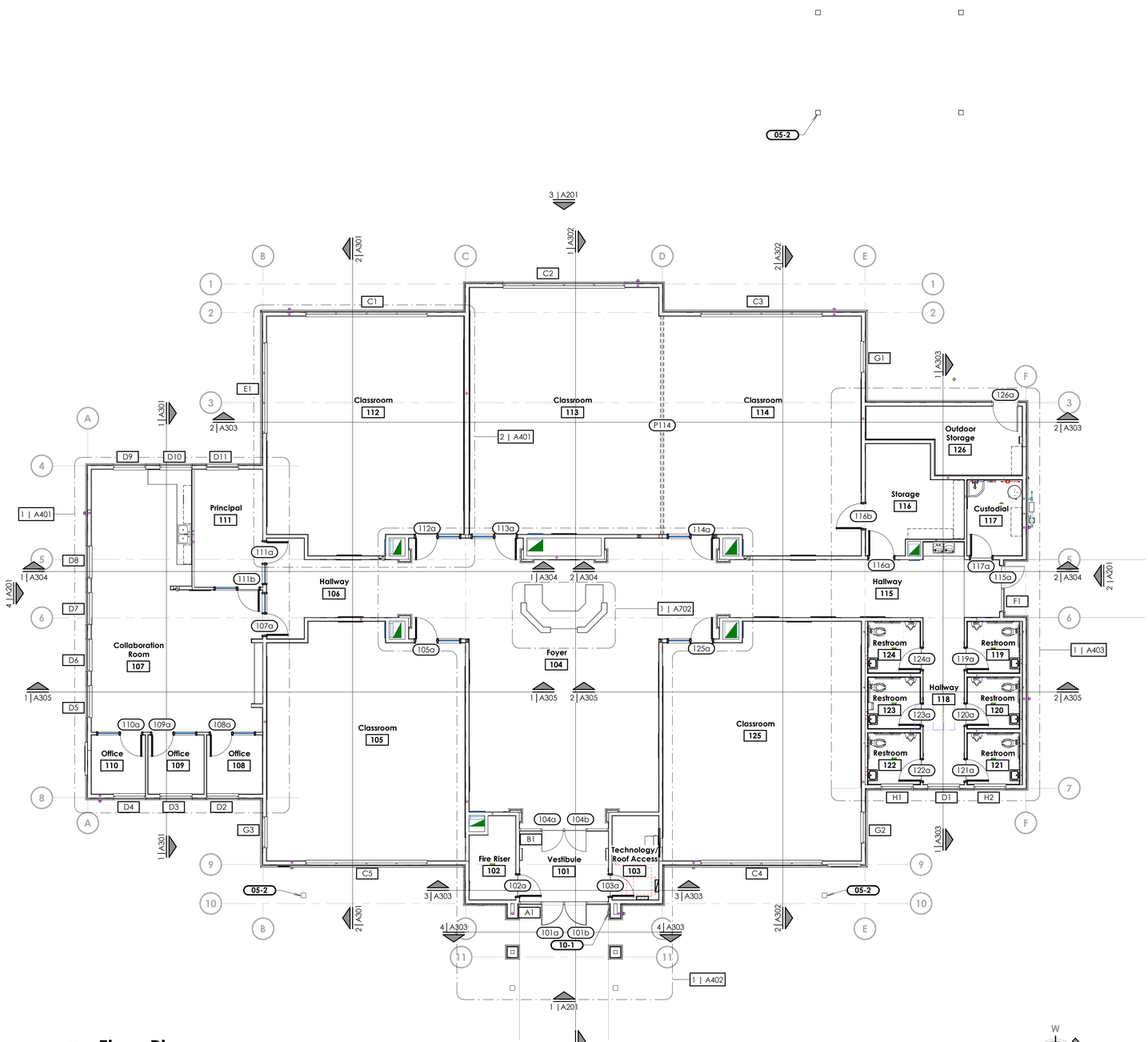

1 Floor Plan

Scale: 1/8" = 1'-0"

0' 4' 8' 16' 32'

General Notes

1. Install vapor retarder as required under concrete slab. See wall details on Sheet A511.
2. See Dimension Plans for dimensions and locations of walls, etc.
3. See Wall Types Plan and wall type definitions for wall framing materials and notes.
4. Coordinate the locations of return air ductwork with the Mechanical Sheets.
5. Refer to A132 for insulation locations. Refer to A131 for sheathing locations. Refer to A133 for gypsum board locations.

Keyed Notes

05-2	Pergola. See pergola details.
10-1	Fire department Knox Box recessed in stone veneer (verify type of box and location with fire department).

Building Insulation Envelope Minimum Requirements

1. Roof: R-30 polyisocyanurate (ISO) foam insulation above roof deck as integral part of membrane roof system (4" minimum) and R-25 unfaced batt cavity insulation in top chord of truss. See Sections 07 5423 and 07 2100.
2. Exterior walls: R-4.6 continuous 1" polyisocyanurate (ISO) rigid insulation. Unfaced batt cavity insulation per wall stud thickness: 2x6 = R-19. See Section 07 2100.
3. Exterior foundation walls: R-4.6 continuous 1" rigid extruded polystyrene (XPS) insulation. See 10/A511 and Section 07 2100.
4. Storefront openings: 0.43 U-factor and 0.24 SHGC. See Section 08 4313.
5. Vapor retarder: Continuous from slab, up wall, through roof under roof insulation, and down wall to slab. Seal air tight. See Section 07 2500.
6. Envelope continuity: No holes or gaps in the building insulation envelope. See Sections 07 2100 and 07 2500.
7. See the Reflected Ceiling Plan and the Insulation Floor Plan for sound batt insulation requirements.

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Phone 801.571.0010
Fax 801.571.0303
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LICENSED ARCHITECT Lafe Theodore Harris 6023899-0301 STATE OF UTAH 3 Apr 2024

THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

Tooele UT Deseret Peak Sr Seminary

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40.569694, -112.303347

Owner #: 501-3450
Plan Series: Custom 5 CR
County Parcel: 02-143-0-0115
BHD #: 2326
Date: 3 Apr 2024

Sheet Issue and Revision Schedule

#	Date	Description
1	3 Apr 2024	Bid Documents

Floor Plan

A101

2024-04-09 5:43:25 PM

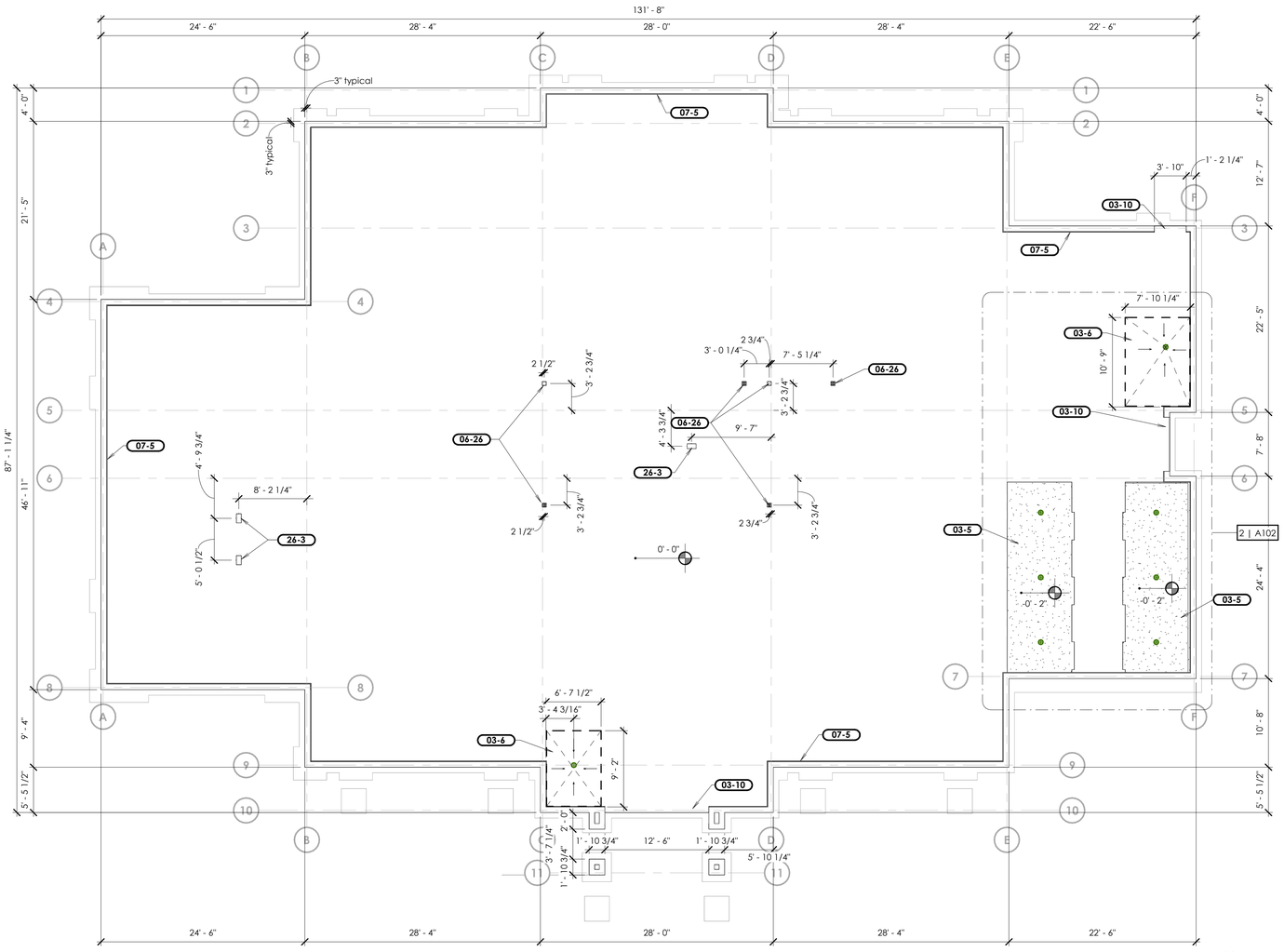
2024-04-09 5:43:27 PM

General Notes

1. Coordinate all required under-slab installations with the engineers' sheets.
2. Coordinate dimensions shown here and on A103 with the locations of a/v, plumbing, electrical, and mechanical requirements prior to installation of floor slab.

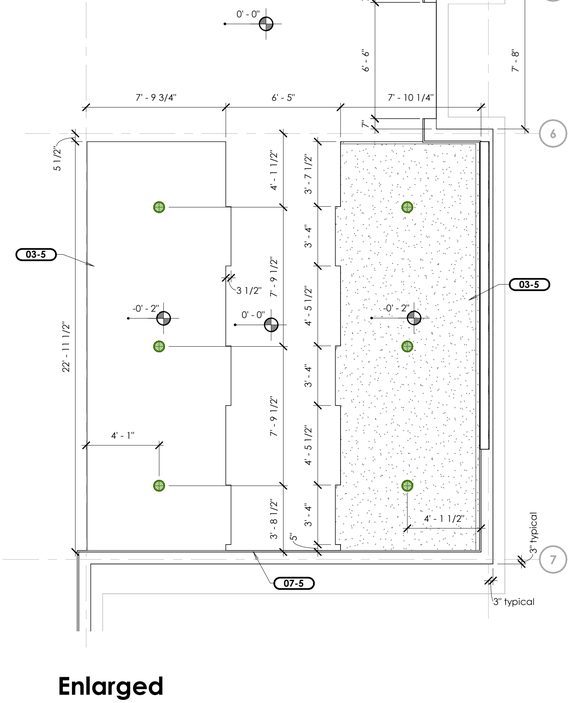
Keyed Notes

03-5	Recessed floor slab.
03-6	Slope concrete slab 1/4" per 12" to floor drain. See plumbing sheets.
03-10	Recess foundation wall at door or window opening. Pour slab through to the outside face of the foundation wall. See structural sheets.
06-26	Structural column. See structural sheets.
07-5	1" rigid insulation.
26-3	Electrical floor box. See electrical and technology sheets.



1 Slab Dimension Plan

Scale: 1/8" = 1'-0"



2 Enlarged Slab Dimension Plan

Scale: 1/4" = 1'-0"

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LICENSED ARCHITECT Lafe Theodore Harris 6023898-0301 STATE OF UTAH
3 Apr 2024

THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

Tooele UT Deseret Peak Sr Seminary

Approximately 2234 North Benn Boulevard, Tooele, Utah
40.569494, -112.293347

BHD #: 2326
County Parcel: 02-143-0-0115
Plan Series: Custom 5 CR
Owner #: 501-3450
Date: 3 Apr 2024

Sheet Issue and Revision Schedule

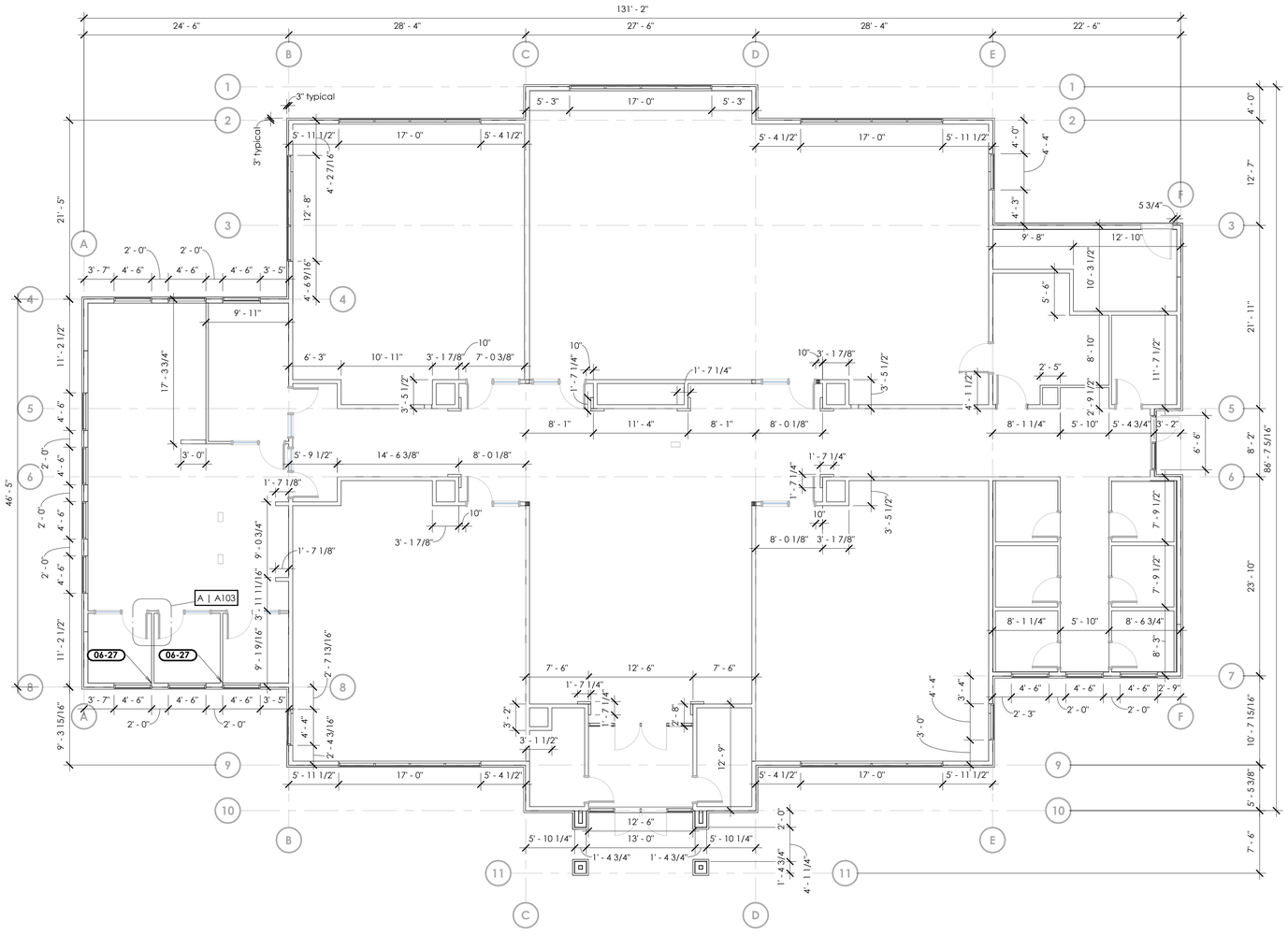
#	Date	Description
1	3 Apr 2024	Bid Documents

Slab Dimension Plan

A102

General Notes

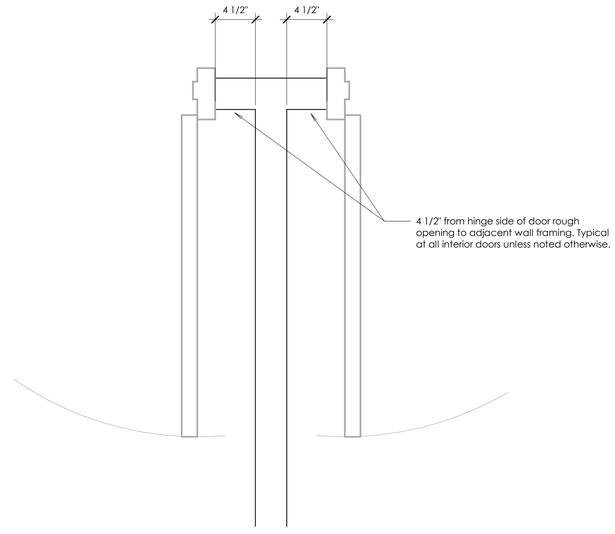
1. Dimensions are to the grid or face of stud.



1 Main Floor Dimension Plan

Scale: 1/8" = 1'-0"

0' 4' 8' 16' 32'



A Typical Door Spacing

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

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THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

Tooele UT Deseret Peak Sr Seminary

Approximately 2234 North Berra Boulevard, Tooele, Utah
40.569694, -112.303347

Date: 3 Apr 2024
BHD #: 2326
County Parcel: 02-143-0-0115
Plan Series: Custom 5 CR
Owner #: 501-3450

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#	Date	Description
1	3 Apr 2024	Bid Documents

Main Floor Dimension Plan

A103

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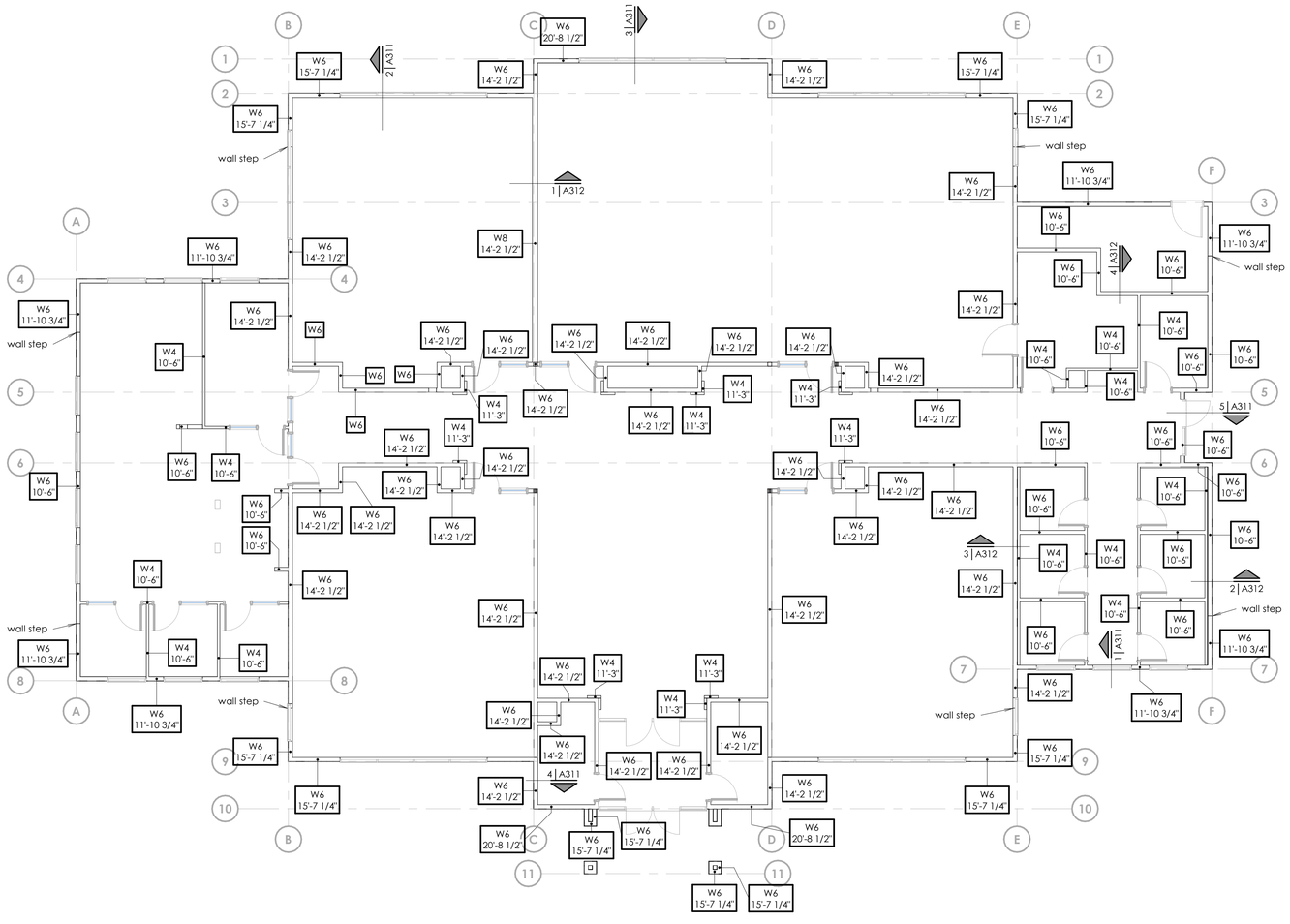
General Notes

1. Refer to Structural Sheets.
2. Refer to Finishes Plan for finishes.
3. Install fire blocking at shaft walls.
4. Install 2x fire blocking in all walls at ceiling levels.
5. At all walls exceeding 10'-0" in height, install 2x fire blocking at 10'-0" oc maximum vertically and at ceiling levels.
6. Provide solid blocking in the walls at all door stops, visual display boards, lavatory supports, drinking fountains, millwork and cabinets, and at all other equipment and accessory locations. See F/A511.
7. Refer to A132 for insulation locations. Refer to A131 for sheathing locations. Refer to A133 for gypsum board locations.

Wall Types Legend

W4 4" nominal studs.
W6 6" nominal studs.
W8 6" nominal studs, staggered. See Structural.



1 Wall Types Floor Plan

Scale: 1/8" = 1'-0"

0' 4' 8' 16' 32'

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Tooele UT Deseret Peak Sr Seminary

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County Parcel: 02-143-0-0115
Plan Series: Custom 5 CR
Owner #: 501-3450

Sheet Issue and Revision Schedule

#	Date	Description
1	3 Apr 2024	Bid Documents

Wall Types Floor Plan

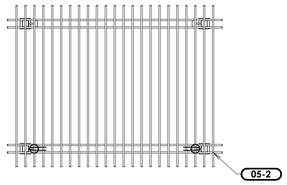
A104

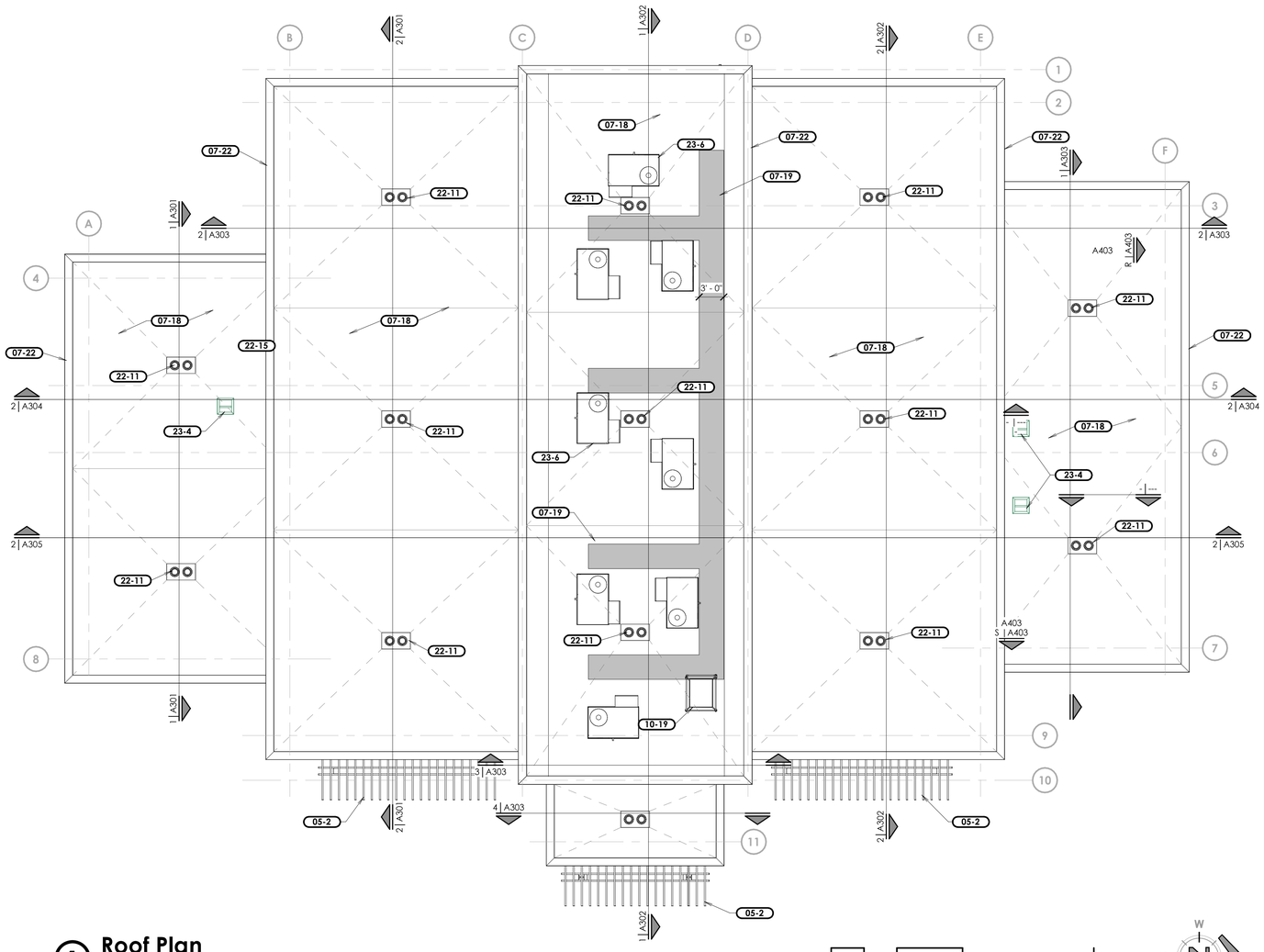
General Notes

1. Install 4" minimum rigid insulation over entire roof.
2. Install tapered rigid insulation above 4" minimum rigid insulation, sloped at 1/4" per foot minimum slope.
3. Provide drainage crickets at all penthouses, roof curbs, exhaust fans, and at the skylight.
4. For all roof pipe and vent penetrations, see G/A522. Coordinate locations of all roof penetrations with the Mechanical and Plumbing Sheets.

Keyed Notes

05-2	Pergola. See pergola details.
07-18	Membrane roofing with self-sealing underlayment and 5/8" cover board. Typical of all roofing on the building.
07-19	Walkway path. Install the path layer from the roof access door to the service side of each rooftop unit.
07-22	Prefinished metal wall cap with standing seam joints and 1" drip edge each side. Install membrane roofing with self-sealing underlayment beneath wall cap.
10-19	Roof access door. See 3/A321.
22-11	Roof drain and secondary roof drain. See F/A522.
22-15	Plumbing roof vent. Paint exposed pipe to match roof fascia metal.
23-4	Prefinished metal penthouse. Typical. See mechanical sheets. Properly flash with membrane roofing. Extend membrane up penthouse 12" minimum. Provide flashing and counterflashing over edge of roofing.
23-6	Rooftop unit. Typical. See mechanical sheets. Install curb at each unit. Fill voids in roof curb with insulation. See 1/A321.





1 Roof Plan

Scale: 1/8" = 1'-0"

0' 4' 8' 16' 32'

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THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

Tooele UT Deseret Peak Sr Seminary

Approximately 2234 North Benn Boulevard, Tooele, Utah
40.569494, -112.303347

Date: 3 Apr 2024
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County Parcel: 02-143-0-0115
Plan Series: Custom 5 CR
Owner #: 501-3450

Sheet Issue and Revision Schedule

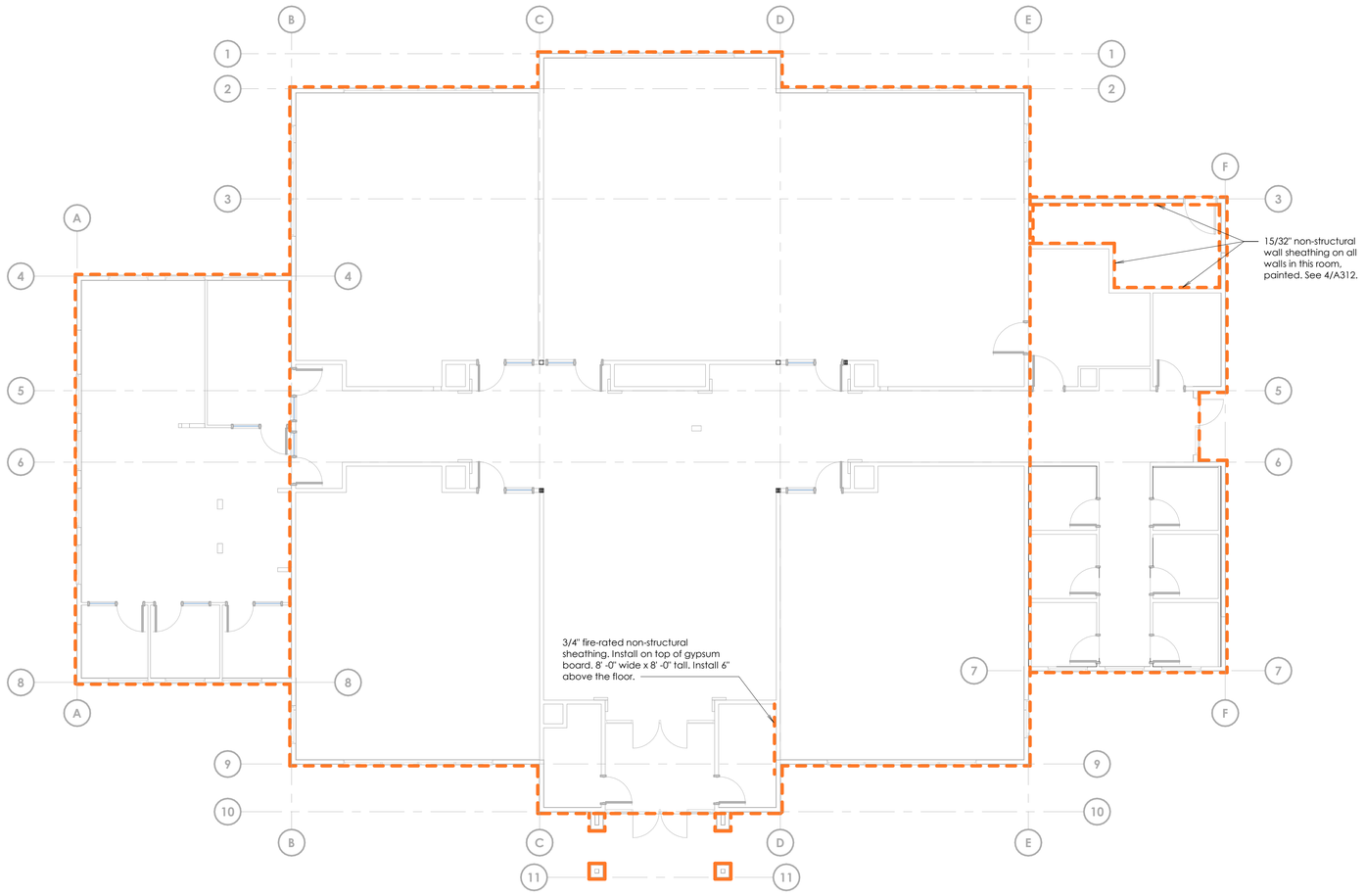
#	Date	Description
1	3 Apr 2024	Bid Documents

Roof Plan

A121

Sheathing Legend

- Wall sheathing. See structural sheets for sheathing and nailing requirements.



1 Sheathing Floor Plan

Scale: 1/8" = 1'-0"

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Plan Series: Custom 5 CR
Owner #: 501-3450

Sheet Issue and Revision Schedule

#	Date	Description
1	3 Apr 2024	Bid Documents

Sheathing Floor Plan

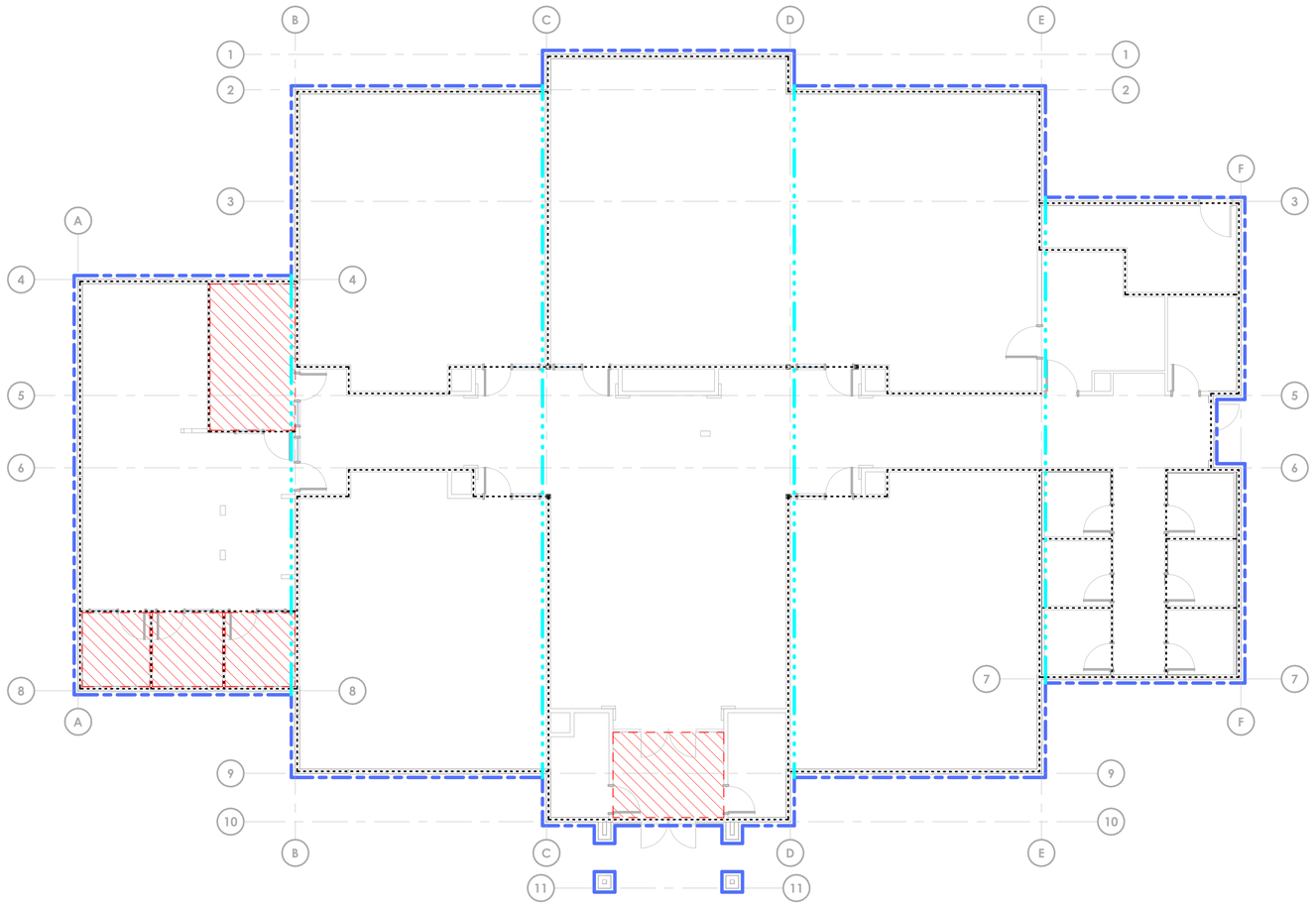
A131

Building Insulation Envelope Minimum Requirements

1. Roof: R-30 polyisocyanurate (ISO) foam insulation above roof deck as integral part of membrane roof system (4" minimum) and R-25 unfaced batt cavity insulation in top chord of truss. See Sections 07 5423 and 07 2100.
2. Exterior walls: R-4.6 continuous 1" polyisocyanurate (ISO) rigid insulation. Unfaced batt cavity insulation per wall stud thickness: 2x6 = R-19. See Section 07 2100.
3. Exterior foundation walls: R-4.6 continuous 1" rigid extruded polystyrene (XPS) insulation. See 10/A511 and Section 07 2100.
4. Storefront openings: 0.43 U-factor and 0.24 SHGC. See Section 08 4313.
5. Vapor retarder: Continuous from slab, up wall, through roof under roof insulation, and down wall to slab. Seal air tight. See Section 07 2500.
6. Envelope continuity: No holes or gaps in the building insulation envelope. See Sections 07 2100 and 07 2500.
7. See the Reflected Ceiling Plan and the Insulation Floor Plan for sound batt insulation requirements.
8. Sound insulation shall be installed to the top of wall except at walls between classrooms where the sound insulation is required to go up to the roof insulation. Acoustical separation is required at these locations.

Insulation Legend

- Insulation batts filling stud cavity.
- 1" rigid insulation.
- 1" rigid insulation above roof deck only.
- R-30 insulation batts above ceiling.



1 Insulation Floor Plan

Scale: 1/8" = 1'-0"

0' 4' 8' 16' 32'

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Sheet Issue and Revision Schedule

#	Date	Description
1	3 Apr 2024	Bid Documents

Insulation Floor Plan

A132

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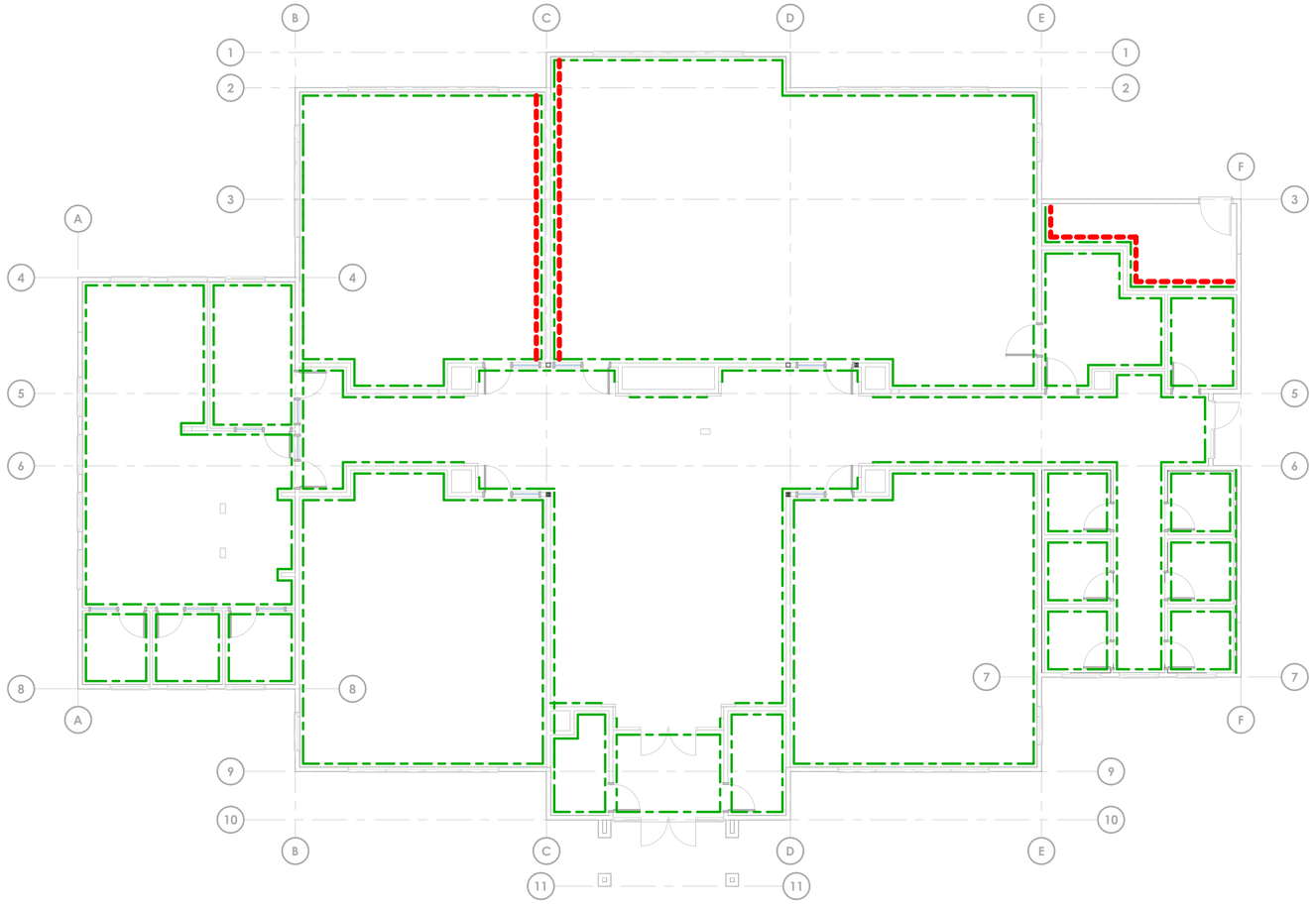
Gypsum Board Legend

- 1 layer 5/8" gypsum board.
- Second layer 5/8" gypsum board.



1 Gypsum Board Floor Plan

Scale: 1/8" = 1'-0"

0' 4' 8' 16' 32'

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Sheet Issue and Revision Schedule

#	Date	Description
1	3 Apr 2024	Bid Documents

Gypsum Board Floor Plan

A133

Reflected Ceiling Symbol Legend

- HVAC supply diffuser, refer to Mechanical Sheets.
- HVAC return register, refer to Mechanical Sheets.
- Exhaust fan register, refer to Mechanical Sheets.
- Light fixture, refer to Electrical Sheets.
- Light fixture, refer to Electrical Sheets.
- Light fixture, refer to Electrical Sheets.
- Light fixture, refer to Electrical Sheets.
- Fire sprinkler, refer to Fire Protection Sheets.
- Recessed speaker refer to Technology Sheets.
- Exit sign, Refer to Electrical Sheets.
- Occupancy sensor, refer to Electrical Sheets.
- Wireless access point, refer to Technology Sheets.

Keyed Notes

05-2	Pergola. See pergola details.
08-6	Prefinished white metal ceiling access door. Coordinate size and location with Skyfold door installer.
26-10	Center light on window mullion below. Typical.
26-17	Center light on window below. Typical.
26-18	Center light on sign below.
26-19	Center light between windows below.
26-21	Center light in ceiling tile.
26-22	Center light in ceiling tile. Verify location to best light the art wall..
26-23	Center light on center of stone column below. Align with adjacent can lights.
26-24	Center light on center of stone column below and 2' -0" to center from face of stone.
26-25	Center light on mullion below and face of stone column.

Match distance to the light over the stone sign

Ceiling Types Legend

- C1 Lay-in acoustical panel suspension system.
- C2 5/8" Gypsum board suspended from structure. Textured and painted.
- C3 5/8" Gypsum board attached to structure. Textured and painted.
- C4 1" thick prefinished perforated metal soffit panels.
- C5 1" thick prefinished non-perforated metal soffit panels.
- C6 (2) Layers of 5/8" Gypsum board and (1) layer of 1/2" sheathing attached to structure. Painted.
- C7 Prefinished extruded aluminum soffit.

1 Reflected Ceiling Plan

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

0' 2' 4' 8' 16'

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Plan Series: Custom 5 CR
Owner #: 501-3450

Sheet Issue and Revision Schedule

#	Date	Description
1	3 Apr 2024	Bid Documents

Reflected Ceiling Plan

A151

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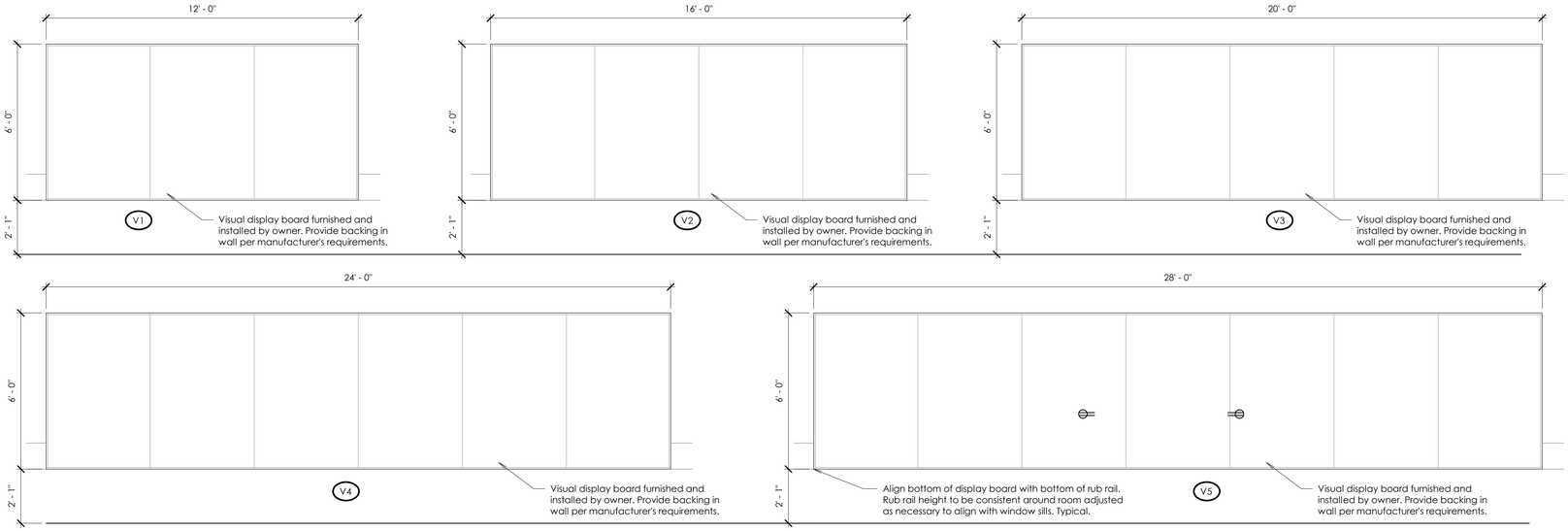
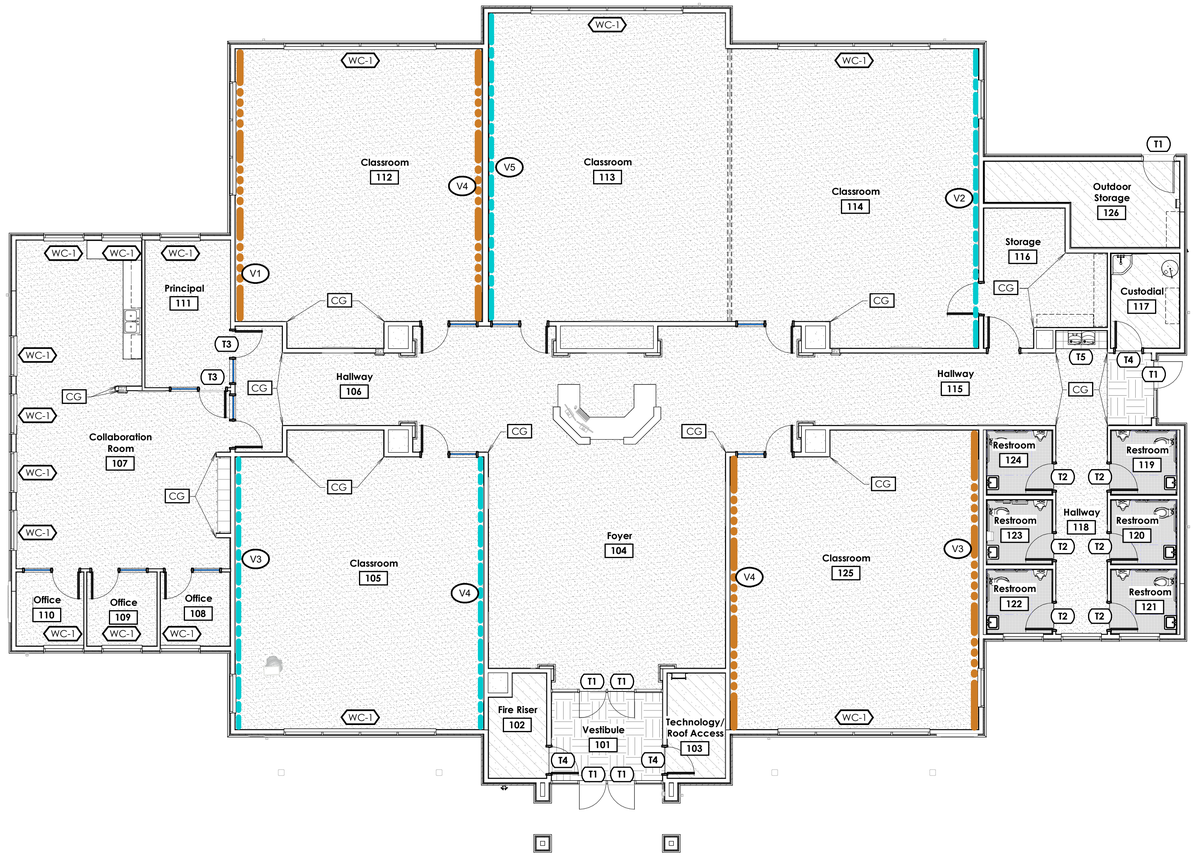


2 Visual Display Boards

Scale: 3/8" = 1'-0"



1 Finishes Plan

Scale: 1/8" = 1'-0"

0' 4' 8' 16' 32'

W S N E

Interior Finishes Schedule

Number	Name	Floor	Base	Wall	Comments
101	Vestibule	F2	B2	W1	
102	Fire Riser	F4	B3	W1	
103	Technology/Roof Acess	F4	B3	W1	
104	Foyer	F1	B1	W1	Stone columns. See interior elevations.
105	Classroom	F1	B1	W1	12" rub rail all walls. See interior elevations.
106	Hallway	F1	B1	W1	
107	Collaboration Room	F1	B1	W1	
108	Office	F1	B1	W1	
109	Office	F1	B1	W1	
110	Office	F1	B1	W1	
111	Principal	F1	B1	W1	
112	Classroom	F1	B1	W1	12" rub rail all walls. See interior elevations.
113	Classroom	F1	B1	W1	12" rub rail all walls. See interior elevations.
114	Classroom	F1	B1	W1	12" rub rail all walls. See interior elevations.
115	Hallway	F1, F2, F5	B1, B2	W1	Tile at drinking fountain cove. See J & K/A403.
116	Storage	F1	B1	W1	
117	Custodial	F4	B3	W1	Tile at custodial sink. See A & D/A403.
118	Hallway	F1	B1	W1	
119	Restroom	F3	B4	W2	
120	Restroom	F3	B4	W2	
121	Restroom	F3	B4	W2	
122	Restroom	F3	B4	W2	
123	Restroom	F3	B4	W2	
124	Restroom	F3	B4	W2	
125	Classroom	F1	B1	W1	12" rub rail all walls. See interior elevtions.
126	Outdoor Storage	F4	B3	W3	

Floor Finish Legend

F1 - Carpet. Furnished and installed by owner.

F2 - Walk-off carpet tiles. Furnished and installed by owner.

F3 - 2" x 2" ceramic tile.

F4 - Sealed concrete.

F5 - 12 x 24 tile

Wall Base Legend

B1 - 4" Self-edged carpet base to match floor. Furnished and installed by owner. See K/A571.

B2 - 4" Self-edged black carpet base to match walk- off tiles. Furnished and installed by owner. See K/A571 similar.

B3 - 4" Coved rubber base. Furnished and installed by owner.

B4 - Coved metal. See L/A571.

Wall Finish Legend

W1 - 5/8" Gypsum board, textured and painted. Typical of all walls unless noted otherwise.

W2 - 5/8" Gypsum board, textured and painted over 6' wall tile wainscot on 5/8" backer board system.

W3 - Painted wall sheathing.

Accent wall paint color #1.

Accent wall paint color #2.

Threshold Legend (T-)

T1 Aluminum threshold, see A, B, C/A571.

T2 Stone threshold, see D/A571.

T3 Sound control threshold, see E/A571.

T4 Metal transition strip by carpet installer.

T5 Metal transition strip, see F/A571.

Window Covering Legend (WC--)

WC-1 - Manually-operated rolling window blinds. Mount on inside of window opening.

Corner Guard Legend (CG)

CG - 2"x 2" vinyl corner guard. Install full height from base to ceiling in one piece (no joints allowed). Where rub rail is installed, Install corner guard continuous and install the rub rail under the rabbet in the metal corner guard channel. See H/A571.

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THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

Tooele UT Deseret Peak Sr Seminary

Approximately 2734 North Berra Boulevard, Tooele, Utah
40.569694, -112.303347

Owner #: 501-3450
Plan Series: Custom 5 CR
County Parcel: 02-143-0-0115
BHD #: 2326
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Sheet Issue and Revision Schedule

#	Date	Description
1	3 Apr 2024	Bid Documents

Finishes Plan

A161

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General Notes

A. Refer to the table on Sheet G101 for work by owner. All items noted on this sheet are furnished by the owner.

1 Furnishings Plan

Scale: 1/8" = 1'-0"

0' 4' 8' 16' 32'

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Tooele UT Deseret Peak Sr Seminary

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Sheet Issue and Revision Schedule

#	Date	Description
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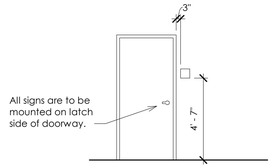
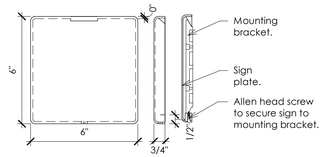
Furnishings Plan

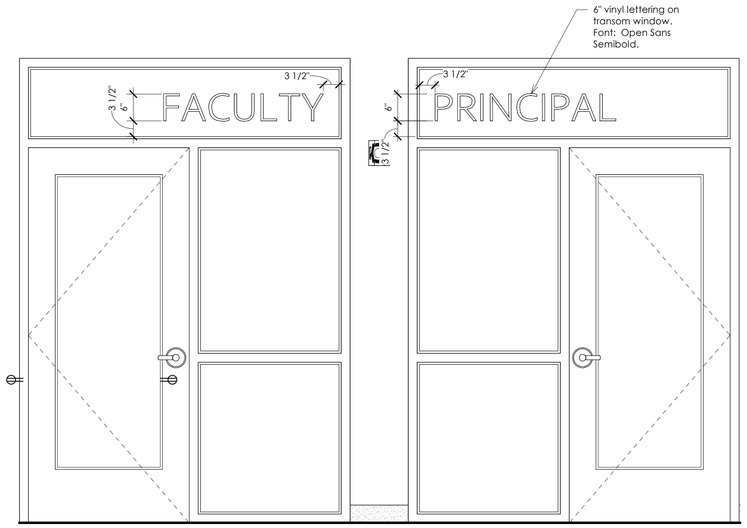
A162



A Molded Sign Mounting
Scale: 1/4" = 1'-0"



B Sign Plate Detail
Scale: 3" = 1'-0"



C Principal and Faculty Sign
Scale: 3/4" = 1'-0"

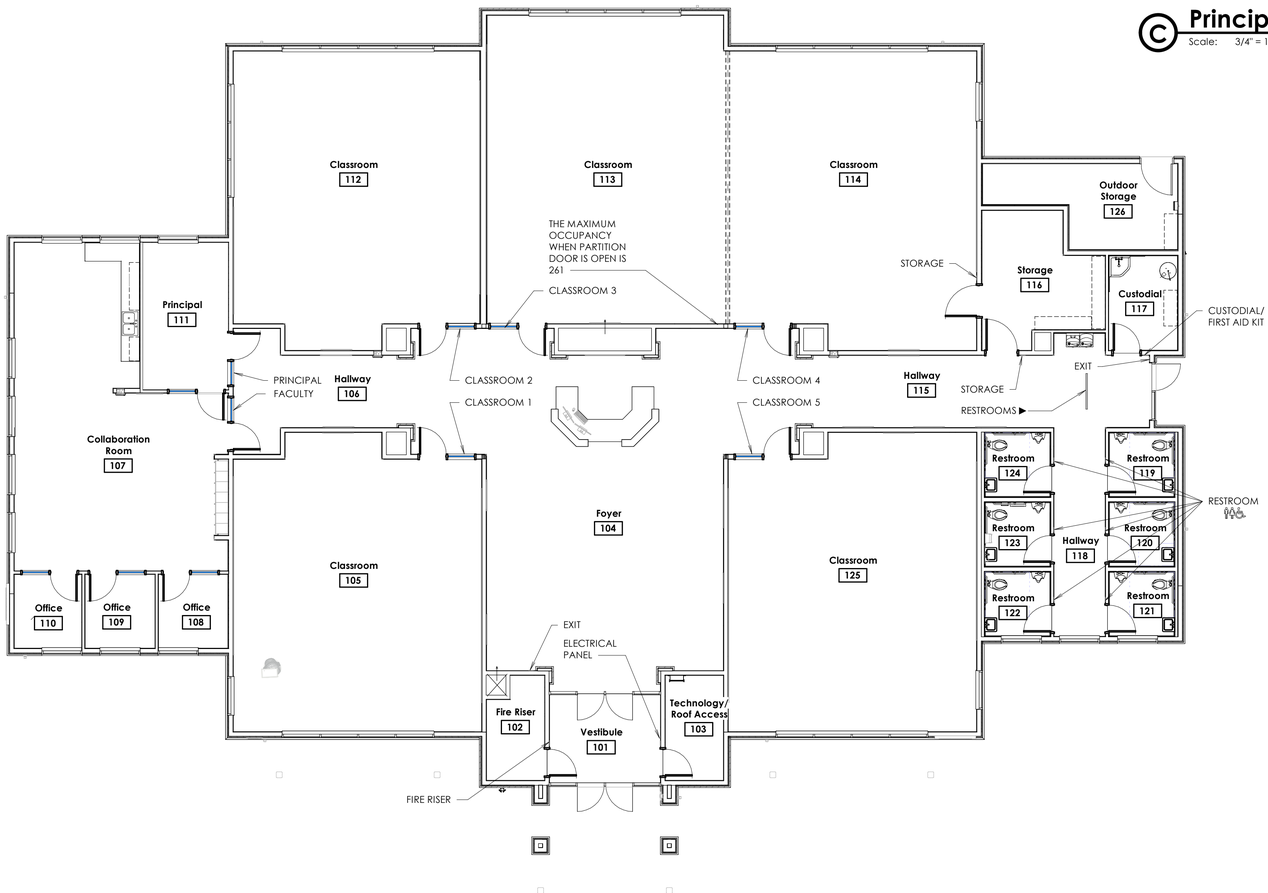
Vinyl Sign Note

On one classroom window, provide a mock-up of three different colors of vinyl lettering as selected by architect for color selection.

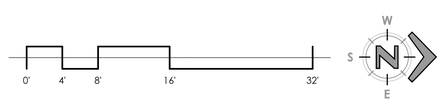
Interior Building Signage Schedule

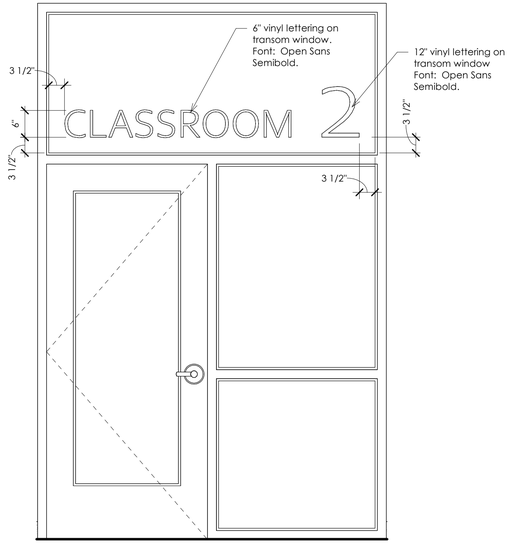
Signage Room Name or Number	Quantity	Size	Mounting
CLASSROOM 1	1	D/A163	D/A163
CLASSROOM 2	1	D/A163	D/A163
CLASSROOM 3	1	D/A163	D/A163
CLASSROOM 4	1	D/A163	D/A163
CLASSROOM 5	1	D/A163	D/A163
FACULTY	1	C/A163	C/A163
PRINCIPAL	1	C/A163	C/A163
FIRE RISER	1	6" X 6"	A/A163
ELECTRICAL PANEL	1	6" X 6"	A/A163
EXIT (RAISED CHARACTERS)	2	6" X 6"	A/A163
CUSTODIAL/ FIRST AID KIT	1	6" X 6"	A/A163
STORAGE	2	6" X 6"	A/A163
RESTROOM	6	6" X 6"	A/A163
THE MAXIMUM OCCUPANCY WHEN PARTITION DOOR IS OPEN IS 261	1	6" X 6"	A/A163

Furnish all plate signs with braille

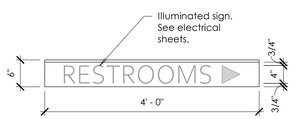


1 Signage Plan
Scale: 1/8" = 1'-0"





D Classroom Signs
Scale: 3/4" = 1'-0"



E Restroom Sign
Scale: 3/4" = 1'-0"

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LICENSED ARCHITECT Lafe Theodore Harris 3 Apr 2024 6023898-0301 STATE OF UTAH

THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

Tooele UT Deseret Peak Sr Seminary

Approximately 2234 North Bero Boulevard, Tooele, Utah
40.569694, -112.303347

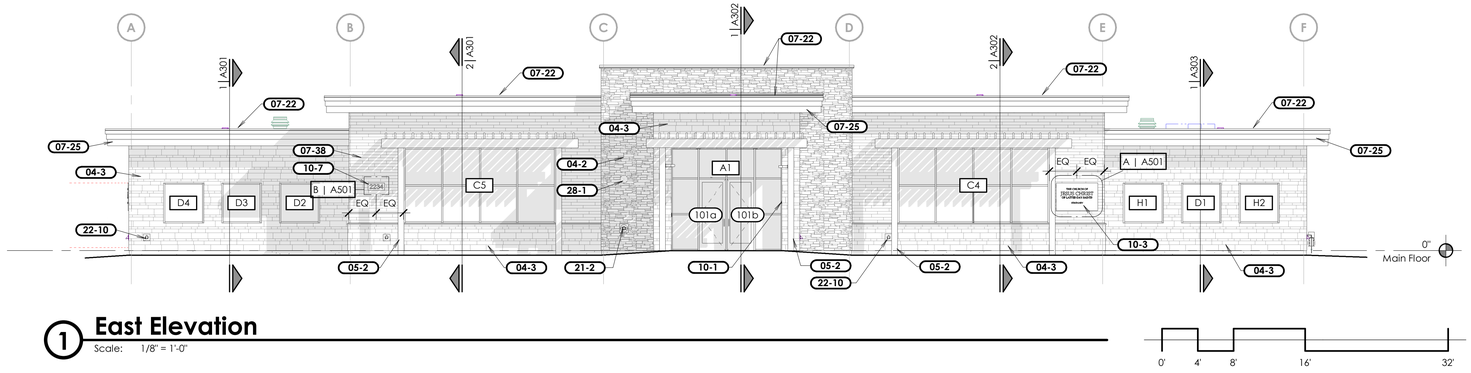
Date: 3 Apr 2024
BHD #: 2326
County Parcel: 02-143-0-0115
Plan Series: Custom 5 CR
Owner #: 501-3450

Sheet Issue and Revision Schedule

#	Date	Description
1	3 Apr 2024	Bid Documents

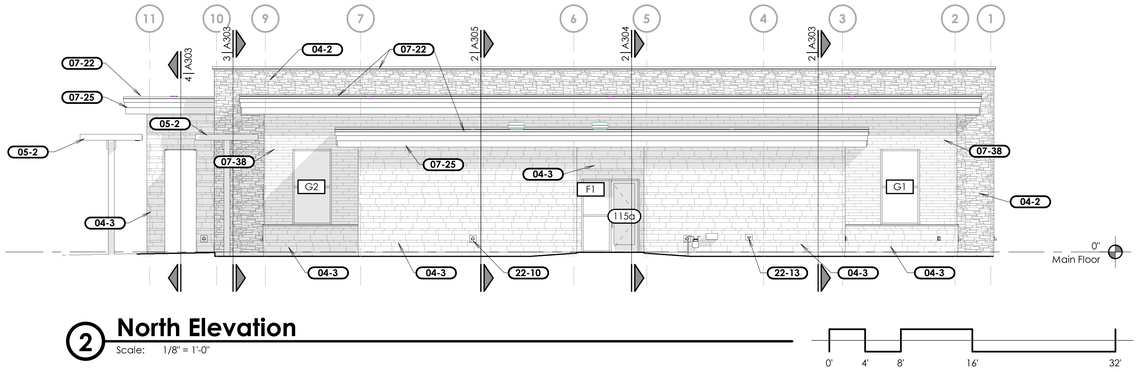
Signage Plan

A163



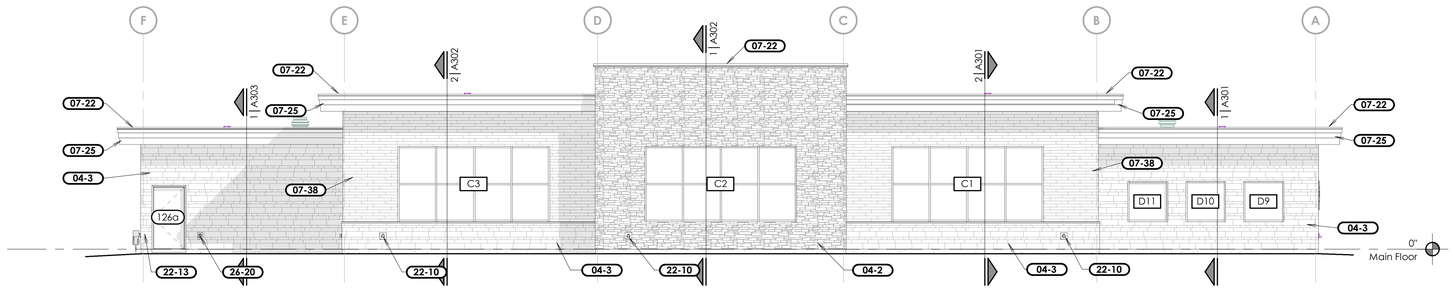
1 East Elevation

Scale: 1/8" = 1'-0"



2 North Elevation

Scale: 1/8" = 1'-0"



3 West Elevation

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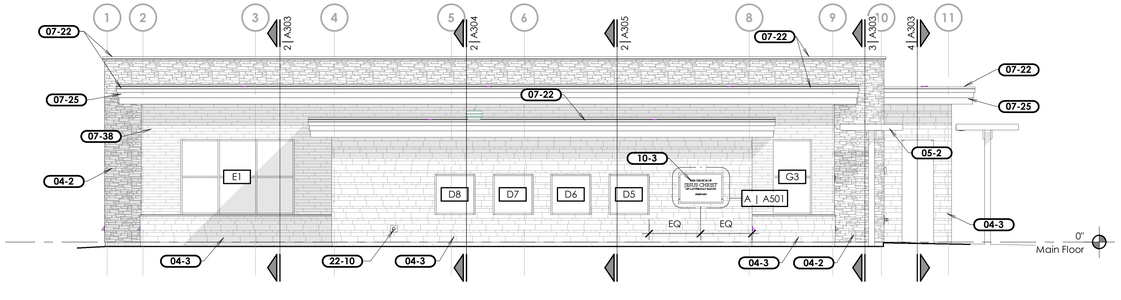

4 South Elevation

Scale: 1/8" = 1'-0"

General Notes

1. At all exterior wall-mounted equipment mounted on manufactured stone veneer, including the FDC, electrical panels and equipment, hose bibbs, fire alarm strobes, roof drain scuppers, door operators, etc., Install a precast trim in the manufactured stone veneer flat behind the equipment prior to installation. See A/A502.

Keyed Notes

04-2	Manufactured stone veneer system. Stone Type #1.
04-3	Manufactured stone veneer system. Stone Type #2.
05-2	Pergola. See pergola details.
07-22	Prefinished metal wall cap with standing seam joints and 1" drip edge each side. Install membrane roofing with self-sealing underlayment beneath wall cap.
07-25	Prefinished metal fascia.
07-38	Prefinished aluminum cladding system.
10-1	Fire department Knox Box recessed in stone veneer (verify type of box and location with fire department).
10-3	Metal pan sign furnished by owner and installed by contractor. Install per manufacturer's recommendations.
10-7	Metal address sign furnished by owner and installed by contractor. Install per manufacturer's recommendations.
21-2	Fire department connection.
22-10	Secondary roof drain wall scupper. See plumbing sheets.
22-13	Hose bibb. See plumbing sheets.
26-20	Electrical outlet. See electrical sheets.
28-1	Fire alarm notification devices. See electrical sheets.

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Tooele UT Deseret Peak Sr Seminary

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Date: 3 Apr 2024
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County Parcel: 02-143-0-0115
Plan Series: Custom 5 CR
Owner #: 501-3450

Sheet Issue and Revision Schedule

#	Date	Description
1	3 Apr 2024	Bid Documents

Exterior Elevations

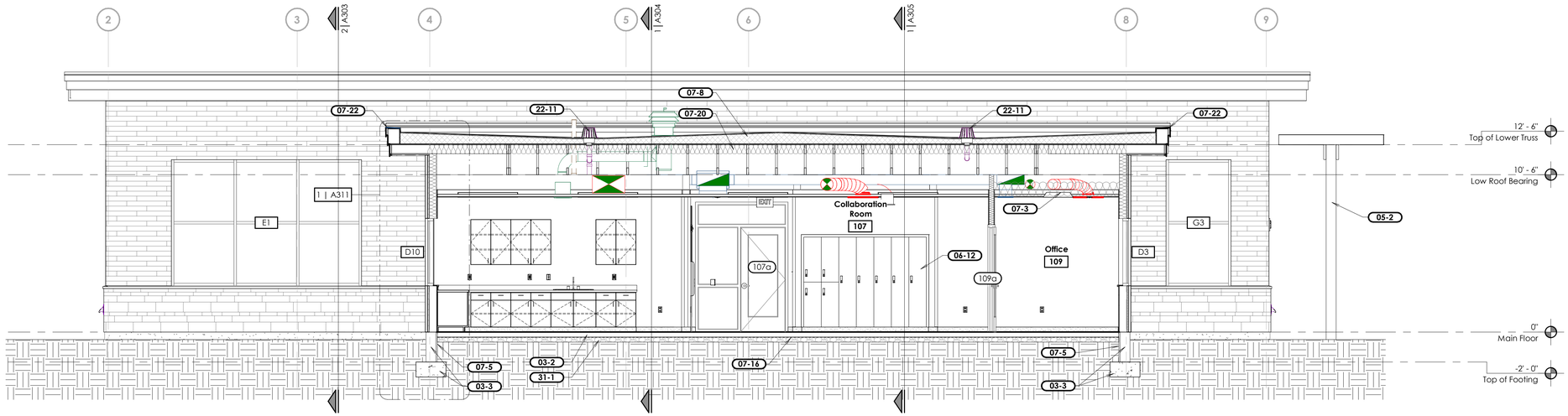
A201

2024-04-09 5:44:23 PM

2024-04-09 5:44:27 PM

Keyed Notes

03-2	Concrete structural floor slab. See structural sheets.
03-3	Reinforced concrete footing and foundation. See structural sheets.
05-2	Pergola. See pergola details.
06-12	Architectural casework lockers. See cabinet details.
07-3	Sound insulation.
07-5	1" rigid insulation.
07-6	Extend wall insulation up to roof insulation at all hallways. Install framing, gypsum board, wires, and vapor retarder membrane as required to support insulation and to create an effective sound barrier.
07-8	Rigid roof insulation.
07-16	Below-grade vapor retarder system.
07-20	Roof batt insulation.
07-22	Prefinished metal wall cap with standing seam joints and 1" drip edge each side. Install membrane roofing with self-sealing underlayment beneath wall cap.
22-11	Roof drain and secondary roof drain. See F/A522.
31-1	4" aggregate base under floor slab.



1 Section

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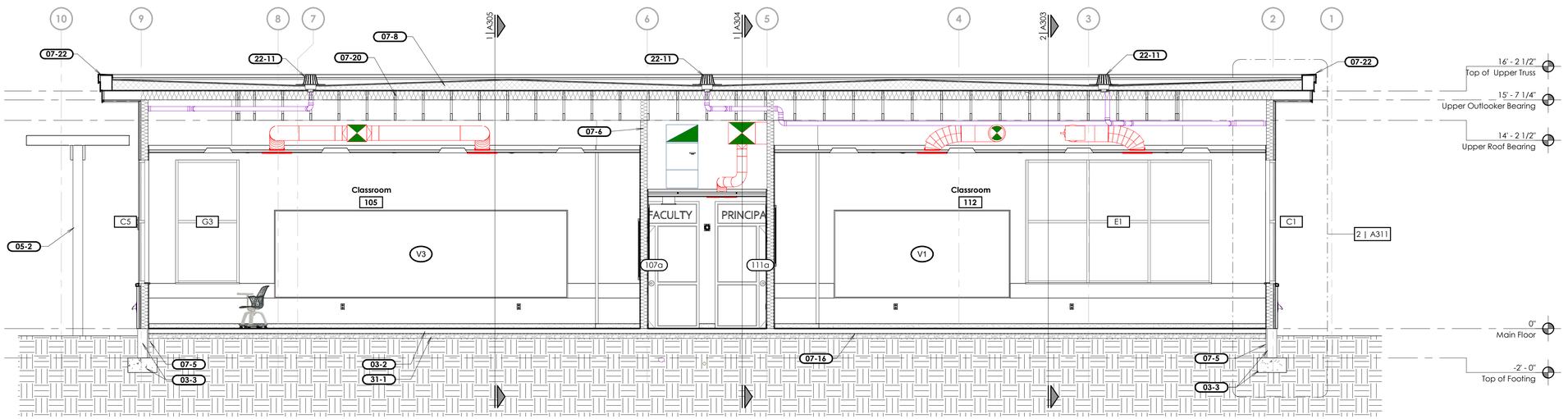

2 Section

Scale: 1/4" = 1'-0"

0' 2' 4' 8' 16'

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THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

Tooele UT Deseret Peak Sr Seminary

Approximately 2734 North Berra Boulevard, Tooele, Utah
40.569694, -112.293347

Owner #: 501-3450
Plan Series: Custom 5 CR
County Parcel: 02-143-0-0115
BHD #: 2326
Date: 3 Apr 2024

Sheet Issue and Revision Schedule

#	Date	Description
1	3 Apr 2024	Bid Documents

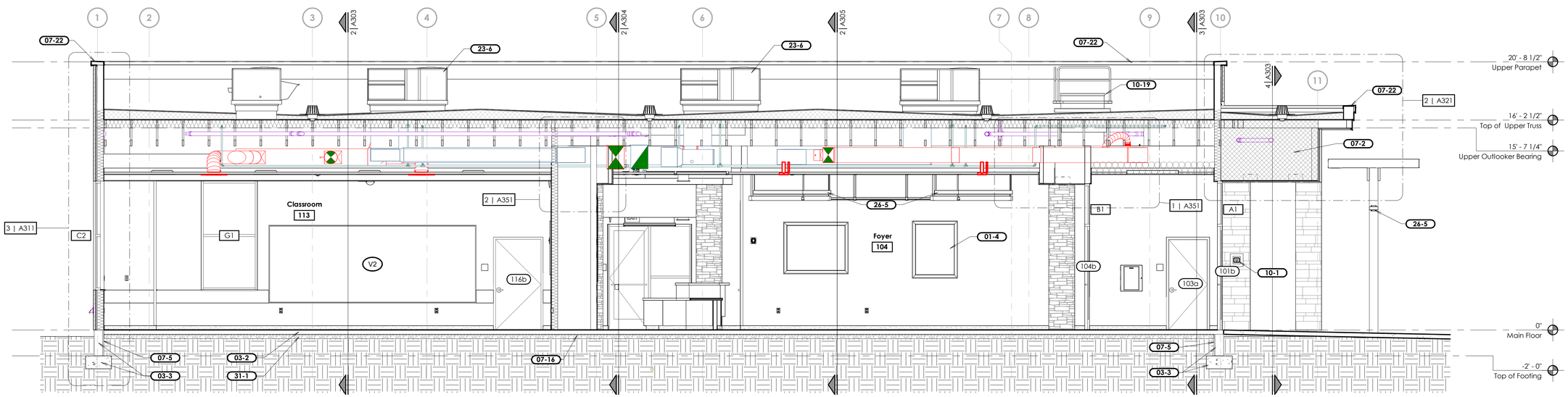
Sections

A301

2024-04-09 5:44:34 PM

Keyed Notes

01-4	Artwork furnished and installed by owner. Contractor to provide blocking in wall.
03-2	Concrete structural floor slab. See structural sheets.
03-3	Reinforced concrete footing and foundation. See structural sheets.
05-2	Pergola. See pergola details.
07-2	Fill entire area with insulation.
07-5	1" rigid insulation.
07-8	Rigid roof insulation.
07-16	Below-grade vapor retarder system.
07-20	Roof batt insulation.
07-22	Prefinished metal wall cap with standing seam joints and 1" drip edge each side. Install membrane roofing with self-sealing underlayment beneath wall cap.
07-25	Prefinished metal fascia.
10-1	Fire department Knox Box recessed in stone veneer (verify type of box and location with fire department).
10-19	Roof access door. See 3/A321.
22-11	Roof drain and secondary roof drain. See F/A522.
23-6	Rooftop unit. Typical. See mechanical sheets. Install curb at each unit. Fill voids in roof curb with insulation. See 1/A321.
26-5	Light fixture. See electrical sheets.
31-1	4" aggregate base under floor slab.



1 Section

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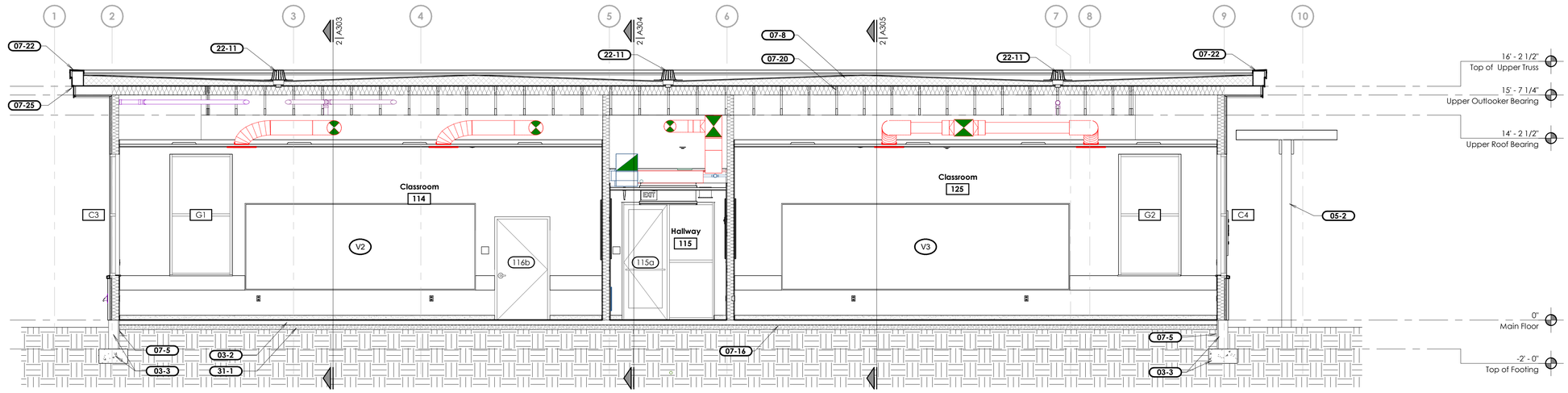

2 Section

Scale: 1/4" = 1'-0"

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Tooele UT Deseret Peak Sr Seminary

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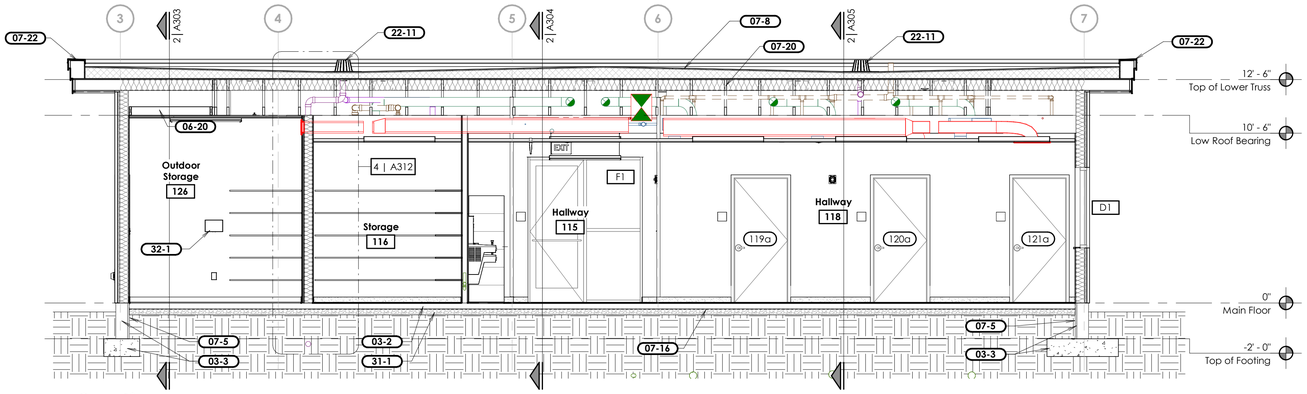
Plan Series: Custom 5 CR
Owner #: 501-3450

Sheet Issue and Revision Schedule

#	Date	Description
1	3 Apr 2024	Bid Documents

Sections

A302



1 Section

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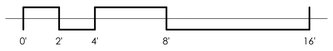

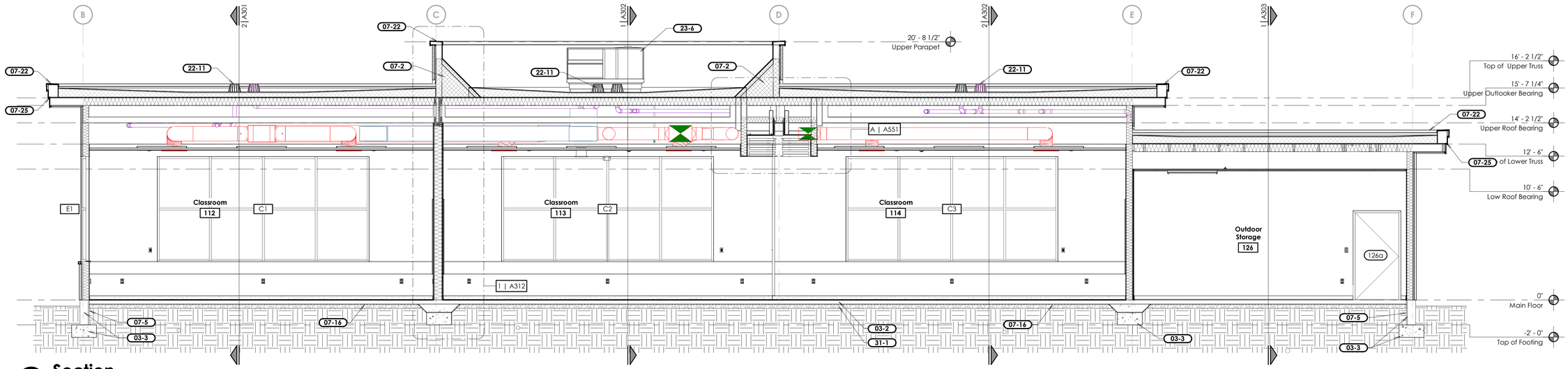

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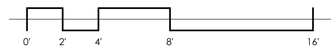
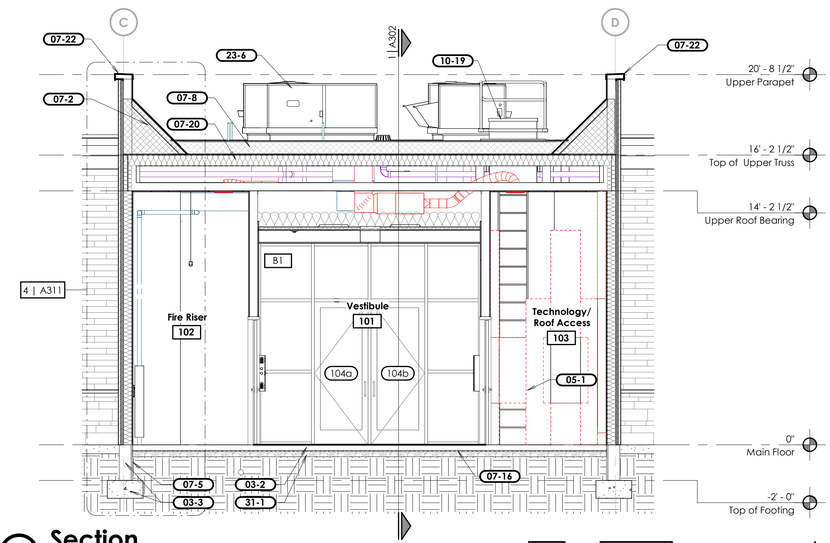


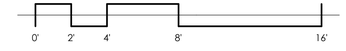


3 Section

Scale: 1/4" = 1'-0"

4 Section

Scale: 1/4" = 1'-0"



Keyed Notes

03-2	Concrete structural floor slab. See structural sheets.
03-3	Reinforced concrete footing and foundation. See structural sheets.
05-1	Steel ladder, primed and painted. See ladder details.
06-20	2x6 framing.
07-2	Fill entire area with insulation.
07-5	1" rigid insulation.
07-8	Rigid roof insulation.
07-16	Below-grade vapor retarder system.
07-20	Roof batt insulation.
07-22	Prefinished metal wall cap with standing seam joints and 1" drip edge each side. Install membrane roofing with self-sealing underlayment beneath wall cap.
07-25	Prefinished metal fascia.
10-19	Roof access door. See 3/A321.
22-11	Roof drain and secondary roof drain. See F/A522.
23-6	Rooftop unit. Typical. See mechanical sheets. Install curb at each unit. Fill voids in roof curb with insulation. See 1/A321.
31-1	4" aggregate base under floor slab.
32-1	Irrigation controller. See landscape sheets.

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Lafe Theodore Harris
6023899-0301
3 Apr 2024
STATE OF UTAH

THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

Tooele UT Deseret Peak Sr Seminary

Approximately 2234 North Berra Boulevard, Tooele, Utah
40.569694, -112.303347

Date: 3 Apr 2024
BHD #: 2326
County Parcel: 02-143-0-0115
Plan Series: Custom 5 CR
Owner #: 501-3450

Sheet Issue and Revision Schedule

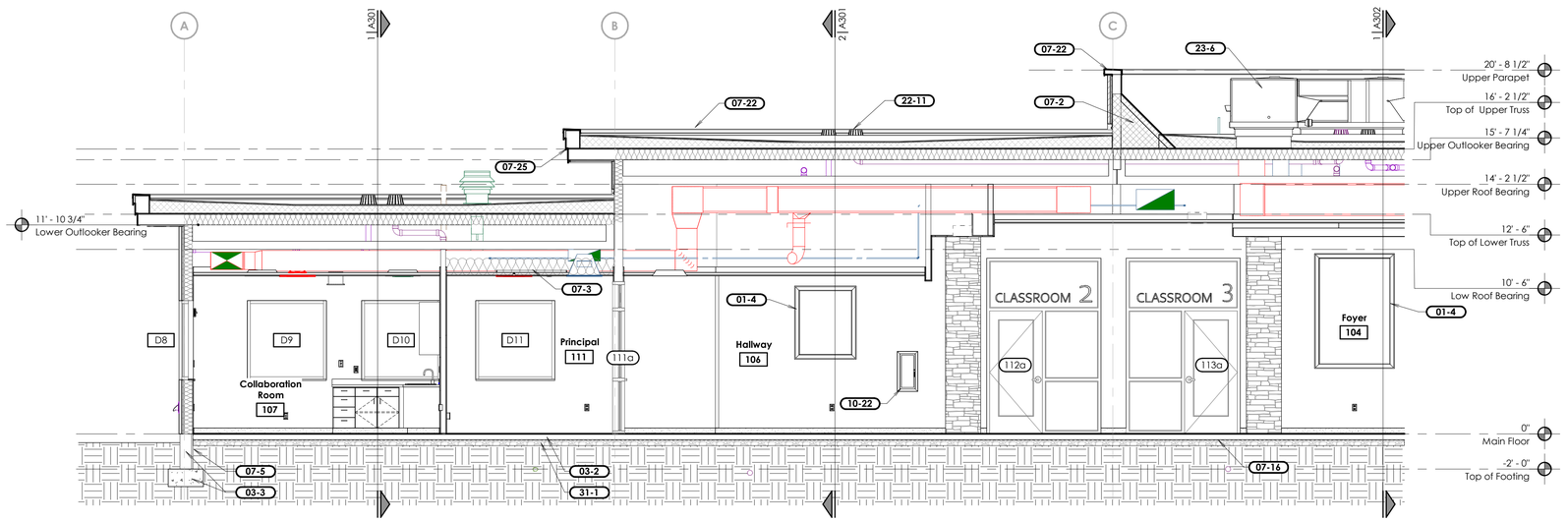
#	Date	Description

Sections

A303

Keyed Notes

01-4	Artwork furnished and installed by owner. Contractor to provide blocking in wall.
03-2	Concrete structural floor slab. See structural sheets.
03-3	Reinforced concrete footing and foundation. See structural sheets.
07-2	Fill entire area with insulation.
07-3	Sound insulation.
07-5	1" rigid insulation.
07-16	Below-grade vapor retarder system.
07-22	Prefinished metal wall cap with standing seam joints and 1" drip edge each side. Install membrane roofing with self-sealing underlayment beneath wall cap.
07-25	Prefinished metal fascia.
10-22	Semi-recessed fire extinguisher cabinet and fire extinguisher. See J/A571.
22-11	Roof drain and secondary roof drain. See F/A522.
23-6	Rooftop unit. Typical. See mechanical sheets. Install curb at each unit. Fill voids in roof curb with insulation. See 1/A321.
31-1	4" aggregate base under floor slab.



1 Section

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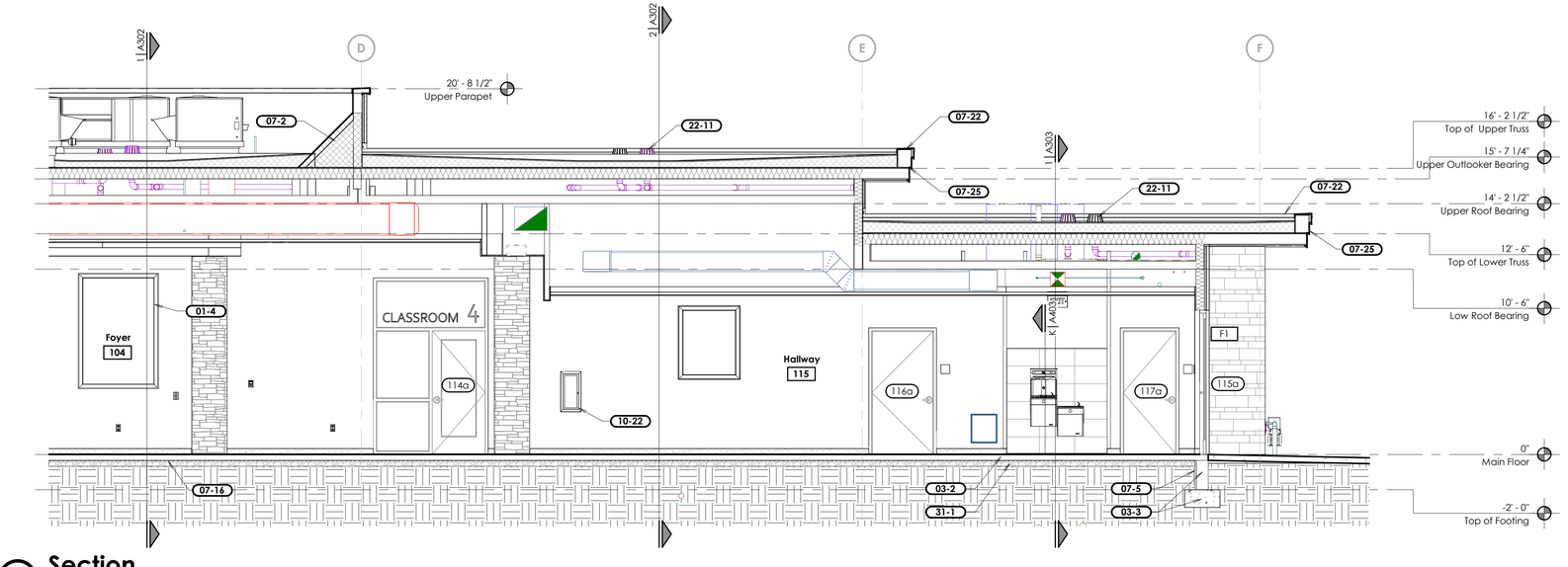

2 Section

Scale: 1/4" = 1'-0"

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Sheet Issue and Revision Schedule

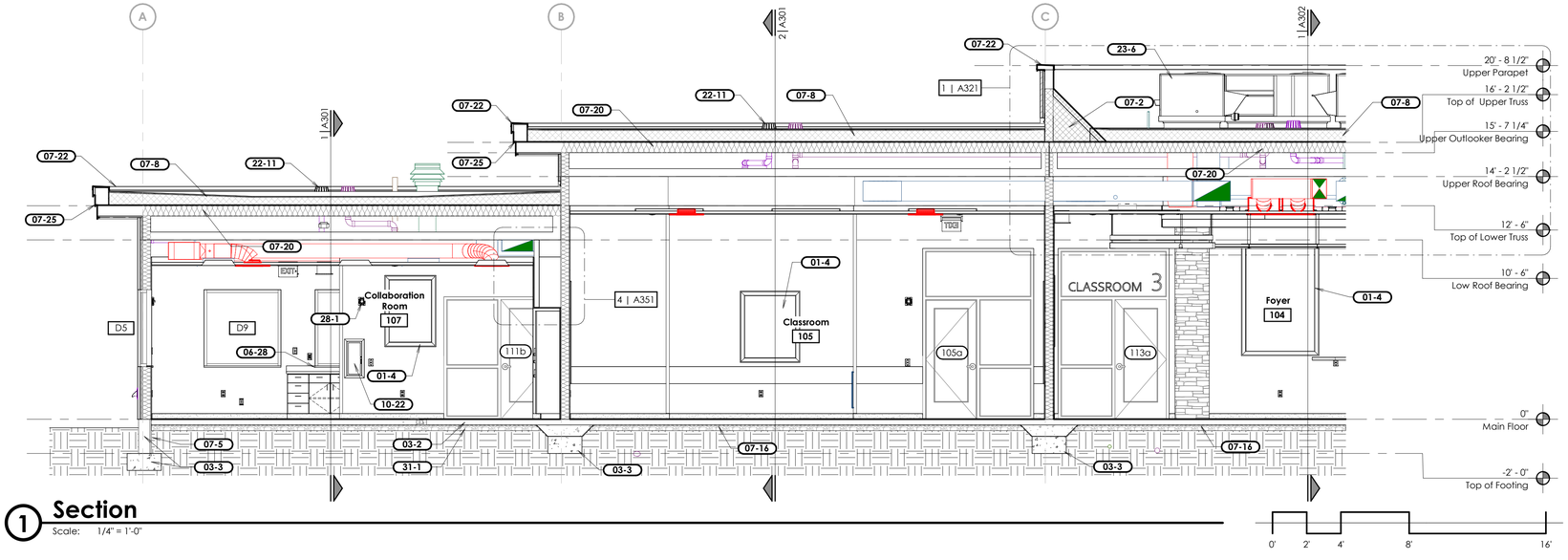
#	Date	Description

Sections

A304

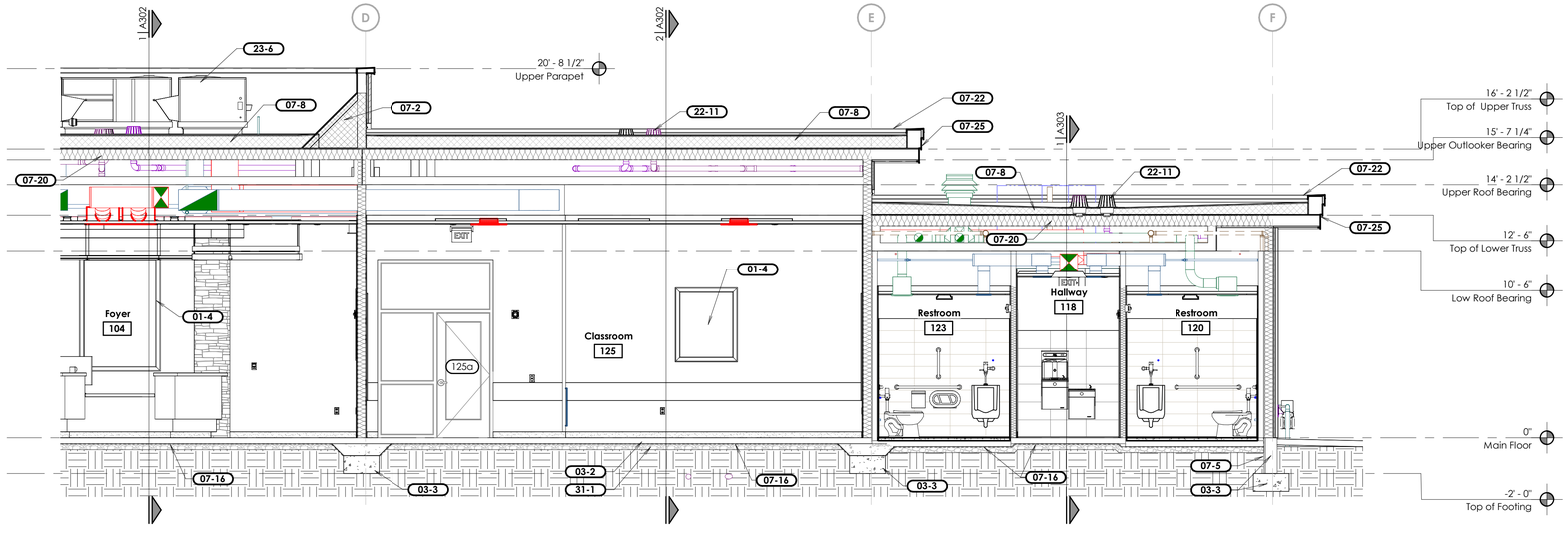
Keyed Notes

01-4	Artwork furnished and installed by owner. Contractor to provide blocking in wall.
03-2	Concrete structural floor slab. See structural sheets.
03-3	Reinforced concrete footing and foundation. See structural sheets.
06-28	Notch backsplash tight around window stool.
07-2	Fill entire area with insulation.
07-5	1" rigid insulation.
07-8	Rigid roof insulation.
07-16	Below-grade vapor retarder system.
07-20	Roof batt insulation.
07-22	Prefinished metal wall cap with standing seam joints and 1" drip edge each side. Install membrane roofing with self-sealing underlayment beneath wall cap.
07-25	Prefinished metal fascia.
10-22	Semi-recessed fire extinguisher cabinet and fire extinguisher. See J/A571.
22-11	Roof drain and secondary roof drain. See F/A522.
23-6	Rooftop unit. Typical. See mechanical sheets. Install curb at each unit. Fill voids in roof curb with insulation. See 1/A321.
28-1	Fire alarm notification devices. See electrical sheets.
31-1	4" aggregate base under floor slab.



1 Section

Scale: 1/4" = 1'-0"



2 Section

Scale: 1/4" = 1'-0"

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Sheet Issue and Revision Schedule

#	Date	Description

Sections

A305

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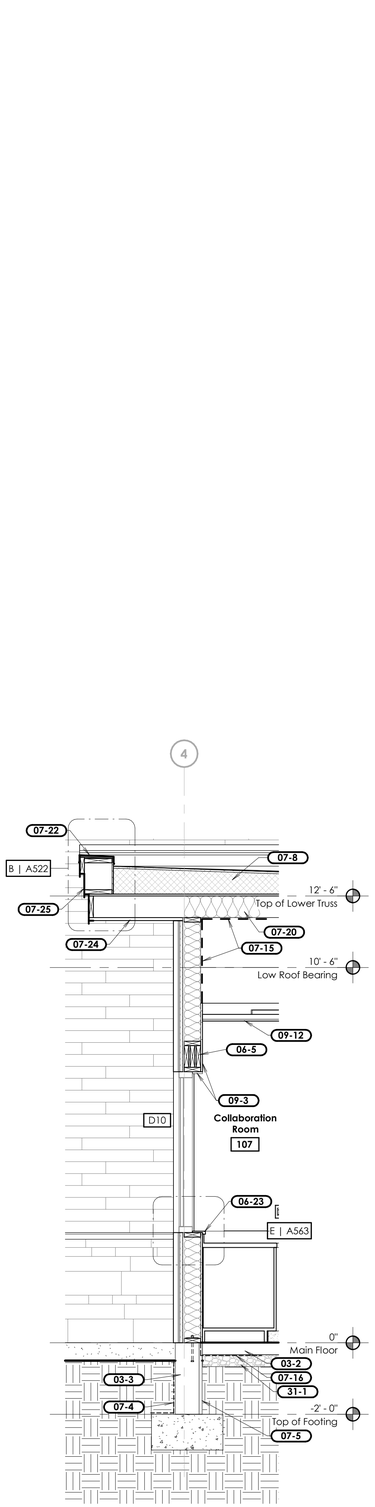
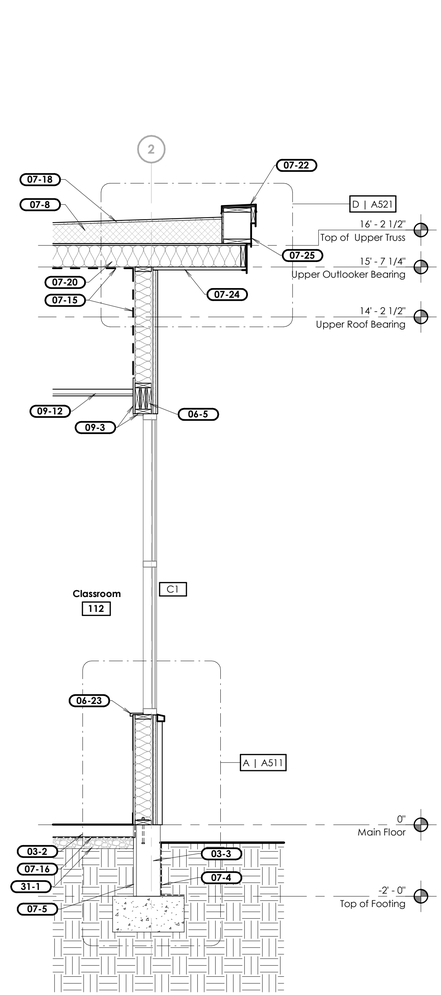
Keyed Notes

03-2	Concrete structural floor slab. See structural sheets.
03-3	Reinforced concrete footing and foundation. See structural sheets.
06-5	Beam. See Structural Sheets.
06-23	Solid surface window stool.
07-2	Fill entire area with insulation.
07-4	Bitumius dampproofing from 2" below grade down to the bottom of the foundation wall and across the top of the footing.
07-5	1" rigid insulation.
07-8	Rigid roof insulation.
07-15	Vapor retarder membrane. Seal air tight at joints and at all penetrations.
07-16	Below-grade vapor retarder system.
07-18	Membrane roofing with self-sealing underlayment and 5/8" cover board. Typical of all roofing on the building.
07-20	Roof batt insulation.
07-22	Prefinished metal wall cap with standing seam joints and 1" drip edge each side. Install membrane roofing with self-sealing underlayment beneath wall cap.
07-24	Prefinished metal perforated soffit panels.
07-25	Prefinished metal fascia.
09-3	Interior textured and painted gypsum board.
09-12	Suspended lay-in tile ceiling system.
22-14	Natural gas meter. See plumbing sheets.
31-1	4" aggregate base under floor slab.



1 **Wall Section**
Scale: 1/2" = 1'-0"



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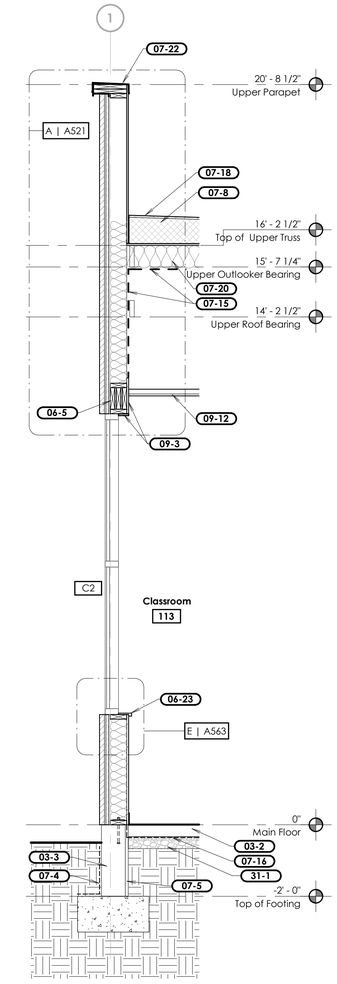

3 **Wall Section**
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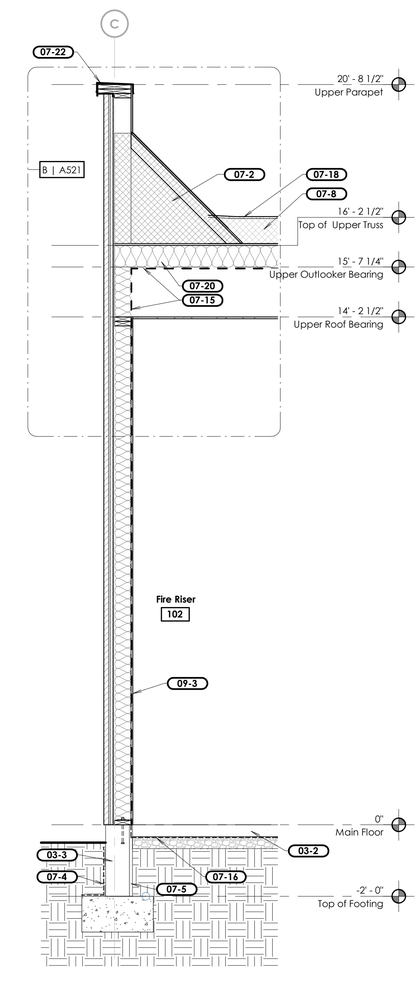

4 **Wall Section**
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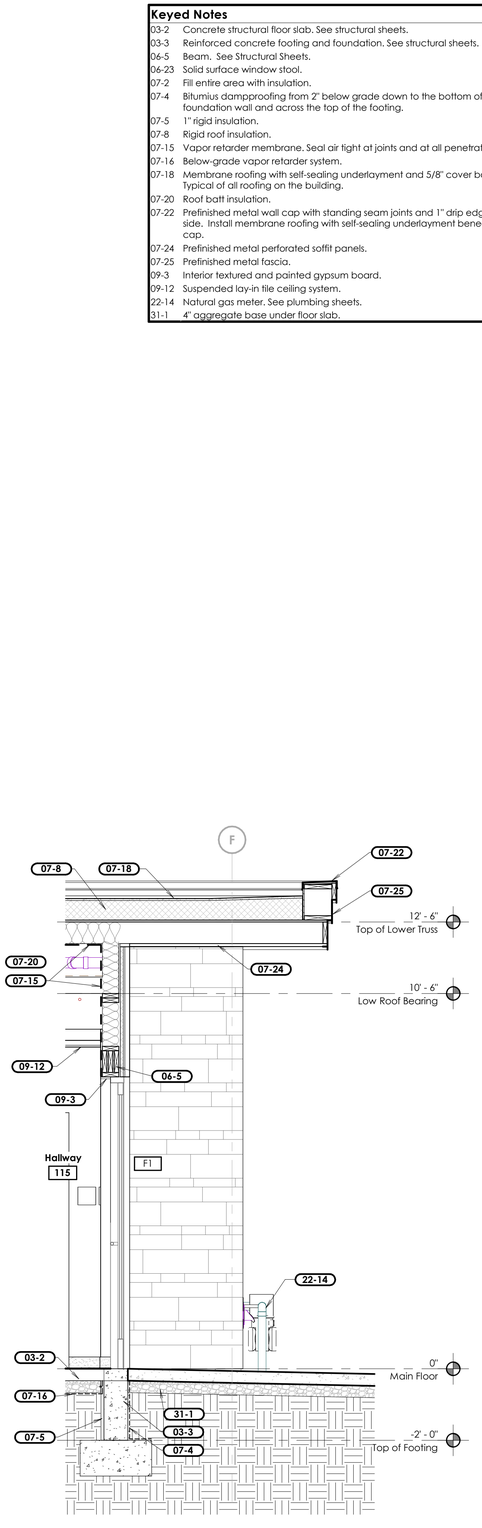

5 **Wall Section**
Scale: 1/2" = 1'-0"

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LICENSED ARCHITECT Lafe Theodore Harris 6278898-0301 STATE OF UTAH 3 Apr 2024

THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

Tooele UT Deseret Peak Sr Seminary

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Sheet Issue and Revision Schedule

#	Date	Description
1	3 Apr 2024	Bid Documents

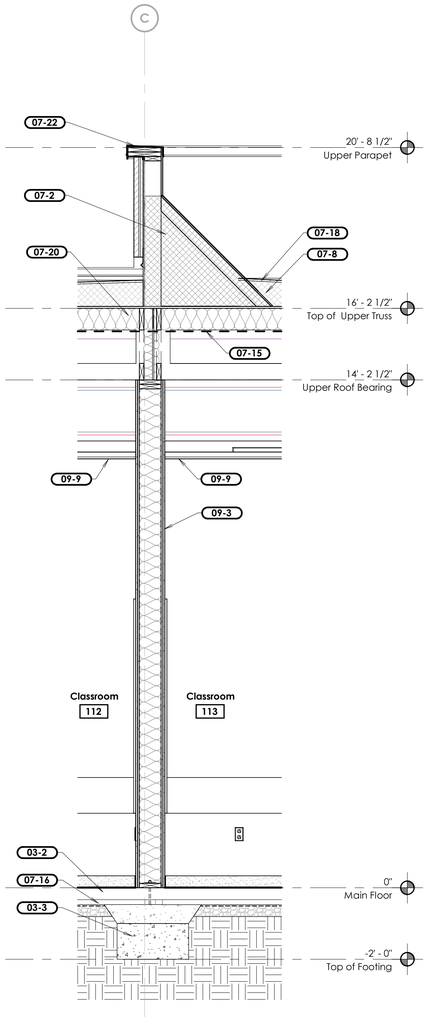
Wall Sections

A311

2024-04-09 5:45:05 PM

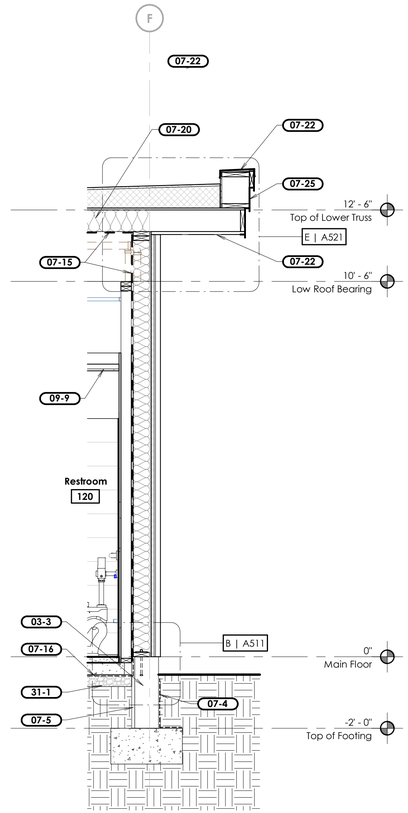
Keyed Notes

03-2	Concrete structural floor slab. See structural sheets.
03-3	Reinforced concrete footing and foundation. See structural sheets.
07-2	Fill entire area with insulation.
07-4	Bitumius dampproofing from 2" below grade down to the bottom of the foundation wall and across the top of the footing.
07-5	1" rigid insulation.
07-8	Rigid roof insulation.
07-15	Vapor retarder membrane. Seal air tight at joints and at all penetrations.
07-16	Below-grade vapor retarder system.
07-18	Membrane roofing with self-sealing underlayment and 5/8" cover board. Typical of all roofing on the building.
07-20	Roof batt insulation.
07-22	Prefinished metal wall cap with standing seam joints and 1" drip edge each side. Install membrane roofing with self-sealing underlayment beneath wall cap.
07-24	Prefinished metal perforated soffit panels.
07-25	Prefinished metal fascia.
09-3	Interior textured and painted gypsum board.
09-6	Thickset floor tile system. See finish schedule.
09-9	Ceiling. See reflected ceiling plan.
09-12	Suspended lay-in tile ceiling system.
31-1	4" aggregate base under floor slab.



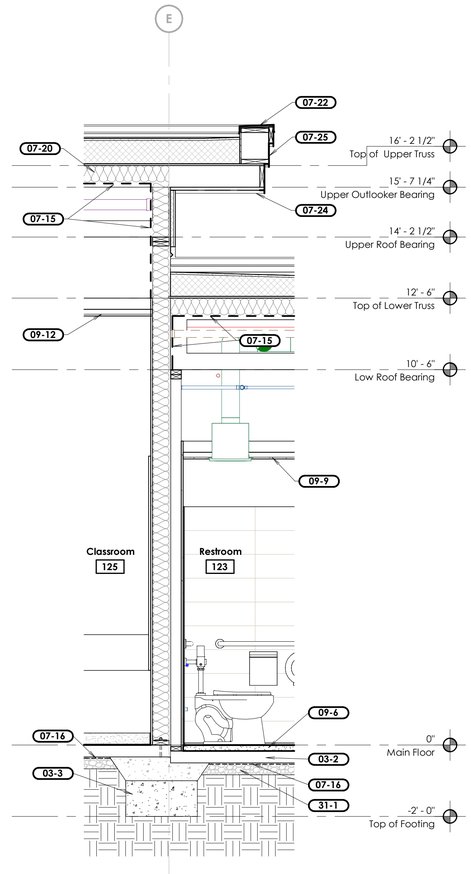
1 Wall Section

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



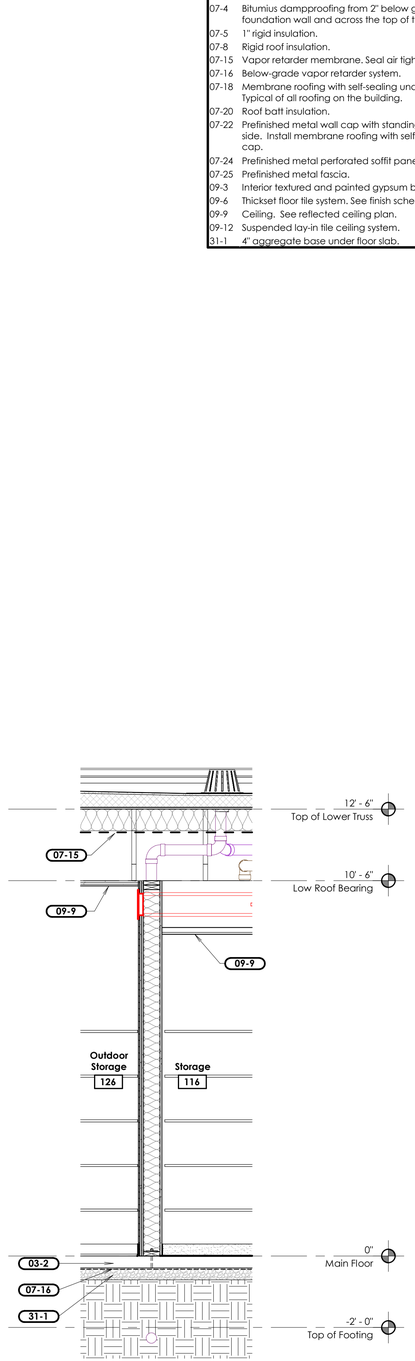
2 Wall Section

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



3 Wall Section

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



4 Wall Section

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

bhd ARCHITECTS
www.bhdarchitects.com
Phone 801.571.0010
Fax 801.571.0303
Toll Free 888.571.0010
65 East Wadsworth Park Drive
Suite 205 Draper, Utah 84020

LICENSED ARCHITECT
Lafe Theodore Harris
6023899-0301
3 Apr 2024
STATE OF UTAH

THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

Tooele UT Deseret Peak Sr Seminary

Approximately 2234 North Berra Boulevard, Tooele, Utah
40.569694, -112.303347

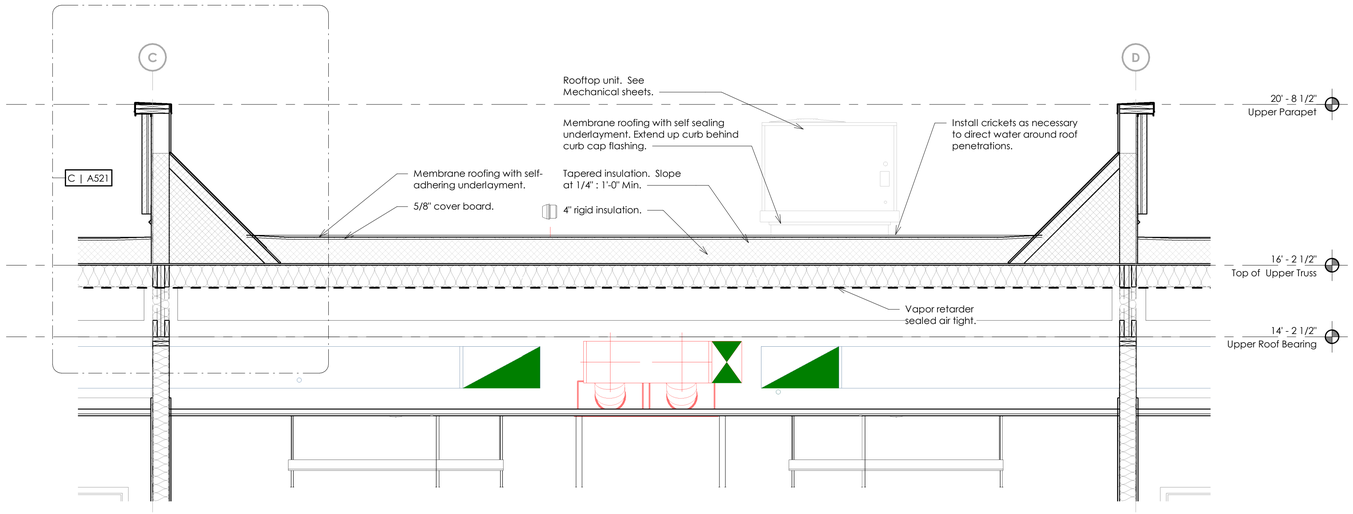
Date: 3 Apr 2024
BHD #: 2326
County Parcel: 02-143-0-0115
Plan Series: Custom 5 CR
Owner #: 501-3450

Sheet Issue and Revision Schedule

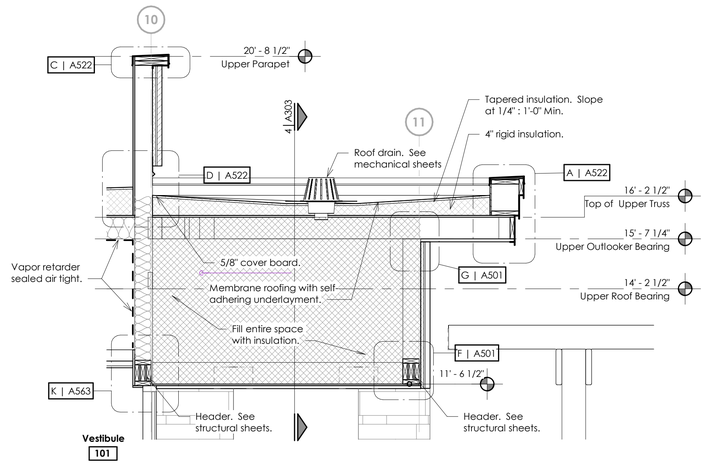
#	Date	Description
1	3 Apr 2024	Bid Documents

Wall Sections

A312



1 Section
Scale: 1/2" = 1'-0"



2 Section
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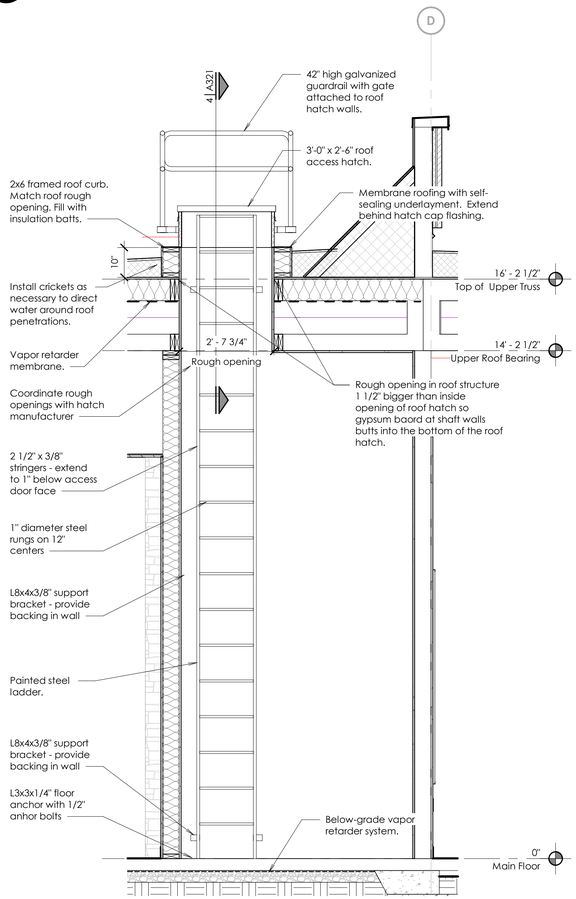
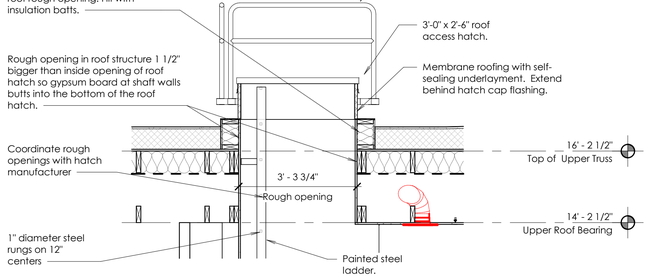
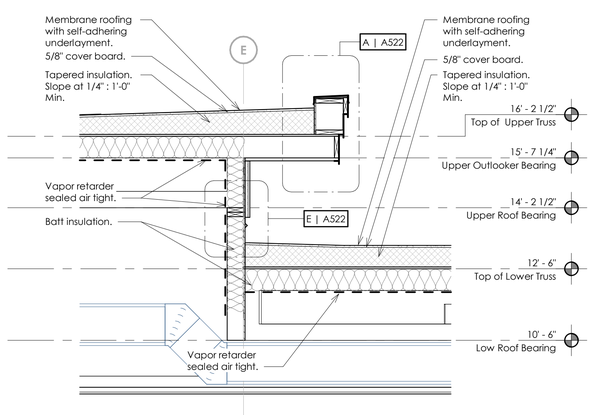


3 Roof Hatch Section
Scale: 1/2" = 1'-0"



4 Roof Hatch Section
Scale: 1/2" = 1'-0"



5 Section
Scale: 1/2" = 1'-0"

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Roof Sections

A321

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